

FCC Test Report

Product Name : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP
Trade Name : IgniteNet
Model No. : SP-W2-AC1200
FCC ID. : HED-SPW2AC1200

Applicant : Accton Technology Corp
Address : No.1, Creation Rd. III, Science-based Industrial Park,
Hsinchu, Taiwan, R.O.C.

Date of Receipt : Jul. 14, 2017
Issued Date : Aug. 23, 2017
Report No. : 1770196R-RFUSP26V00
Report Version : V1.0



The test results relate only to the samples tested.

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Test Report Certification

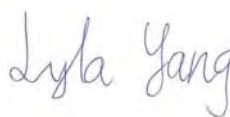
Issued Date : Aug. 23, 2017

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Product Name : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP
Applicant : Accton Technology Corp
Address : No.1, Creation Rd. III, Science-based Industrial Park, Hsinchu,
Taiwan, R.O.C.
Manufacturer : Accton Technology Corp
Model No. : SP-W2-AC1200
FCC ID. : HED-SPW2AC1200
EUT Test Voltage : AC 100-240V, 50-60Hz
Testing Voltage : AC 120V/60Hz
Trade Name : IgniteNet
Applicable Standard : FCC CFR Title 47 Part 15 Subpart C Section 15.247: 2015
ANSI C63.10: 2013
KDB 558074 D01 V04 / KDB 662911
Laboratory Name : Hsin Chu Laboratory
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TEL: +886-3-582-8001 / FAX: +886-3-582-8958
Test Result : Complied

Documented By :



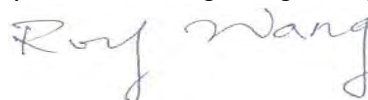
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Tested By :



(Clemens Fang / Engineer)

Approved By :



(Roy Wang / Director)

Revision History

Report No.	Version	Description	Issued Date
1770196R-RFUSP26V00	V1.0	Initial issue of report	Aug. 23, 2017

Laboratory Information

We, **DEKRA Testing and Certification Co., Ltd.**, are an independent RF consultancy that was established the whole facility in our laboratories. The test facility has been accredited/accepted (audited or listed) by the following related bodies in compliance with ISO 17025 specified testing scopes:

Taiwan R.O.C.	: TAF, Accreditation Number: 3024
USA	: FCC, Designation Number of test firm: TW3024
Canada	: IC, Submission No: 181665 / IC Registration Number: 22397-1 / 22397-2 / 22397-3

The related certificate for our laboratories about the test site and management system can be downloaded from DEKRA Testing and Certification Co., Ltd. Web Site :

<http://www.dekra.com.tw/english/about/certificates.aspx?bval=5>

The address and introduction of DEKRA Testing and Certification Co., Ltd. laboratories can be founded in our Web site : http://www.dekra.com.tw/index_en.aspx

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1. General Information

1.1. EUT Description

Product Name	Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	
Trade Name	IgniteNet	
Model No.	SP-W2-AC1200	
Frequency Range/ Channel Number	IEEE 802.11b/g/ IEEE 802.11n (20MHz)	2412~2462MHz / 11 Channels
	IEEE 802.11n (40MHz)	2422~2452MHz / 7Channels
Type of Modulation	IEEE 802.11b	Direct Sequence Spread Spectrum
	IEEE 802.11g/n	Orthogonal Frequency Division Multiplexing
Data Speed	IEEE 802.11b	1, 2, 5.5, 11Mbps
	IEEE 802.11g	6, 9, 18, 24, 36, 48, 54Mbps
	IEEE 802.11n	Support a subset of the combination of GI, MCS 0~MCS 15 and bandwidth defined in 802.11n

Antenna Information	
MFR. / Model	Ant0: Accton / 120G00000172X Ant1: Accton / 120G00000173X
Antenna Type	PIFA Antenna
Antenna Gain	6 dBi

Accessories Information	
Power Adatper	MASS POWER, NBS12E120100VU I/P : 100-240V~, 50/60Hz 0.3A O/P : 12.0V === 1.0A Cable Out: Non-Shielded, 1.6m

IEEE 802.11n

MCS Index	Modulation	R	N _{BPSCS}	N _{CBPS}		N _{DBPS}		Data Rate(Mb/s)			
				20MHz	40MHz	20MHz	40MHz	800ns GI		400ns GI	
								20MHz	40MHz	20MHz	40MHz
0	BPSK	1/2	1	52	108	26	54	6.5	13.5	7.2	15.0
1	QPSK	1/2	2	104	216	52	108	13.0	27.0	14.4	30.0
2	QPSK	3/4	2	104	216	78	162	19.5	40.5	21.7	45.0
3	16-QAM	1/2	4	208	432	104	216	26.0	54.0	28.9	60.0
4	16-QAM	3/4	4	208	432	156	324	39.0	81.0	43.3	90.0
5	64-QAM	2/3	6	312	648	208	432	52.0	108.0	57.8	120.0
6	64-QAM	3/4	6	312	648	234	486	58.5	121.5	65.0	135.0
7	64-QAM	5/6	6	312	648	260	540	65.0	135.0	72.2	150.0

Note 1: Support of 400ns GI is optional on transmit and receive.

Table 1 – MCS parameters for TX Antenna number = 1

MCS Index	Modulation	R	N _{BPSCS}	N _{CBPS}		N _{DBPS}		Data Rate(Mb/s)			
				20MHz	40MHz	20MHz	40MHz	800ns GI		400ns GI	
								20MHz	40MHz	20MHz	40MHz
8	BPSK	1/2	1	104	216	52	108	13.0	27.0	14.4	30.0
9	QPSK	1/2	2	208	432	104	216	26.0	54.0	28.9	60.0
10	QPSK	3/4	2	208	432	156	324	39.0	81.0	43.3	90.0
11	16-QAM	1/2	4	416	864	208	432	52.0	108.0	57.8	120.0
12	16-QAM	3/4	4	416	864	312	648	78.0	162.0	86.7	180.0
13	64-QAM	2/3	6	624	1296	416	864	104.0	216.0	115.6	240.0
14	64-QAM	3/4	6	624	1296	468	972	117.0	243.0	130.0	270.0
15	64-QAM	5/6	6	624	1296	520	1080	130.0	270.0	144.4	300.0

Note 1: Support of 400ns GI is optional on transmit and receive.

Table 2 – MCS parameters for TX Antenna number = 2

Symbol	Explanation
R	Code rate
N _{BPSC}	Number of coded bits per single carrier
N _{CBPS}	Number of coded bits per symbol
N _{DBPS}	Number of data bits per symbol
GI	guard interval

IEEE 802.11b/g & IEEE 802.11n (20MHz)

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
001	2412 MHz	002	2417 MHz	003	2422 MHz	004	2427 MHz
005	2432 MHz	006	2437 MHz	007	2442 MHz	008	2447 MHz
009	2452 MHz	010	2457 MHz	011	2462 MHz		

IEEE 802.11n (40MHz)

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
003	2422 MHz	004	2427 MHz	005	2432 MHz	006	2437 MHz
007	2442 MHz	008	2447 MHz	009	2452 MHz		

Note:

1. This device is a Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP including 2.4GHz b/g/n (2x2) and 5GHz a/n/ac (2x2) transmitting and receiving function.
2. These test results on a sample of the device are for the purpose of demonstrating Compliance with Part 15 Subpart C Paragraph 15.247.
3. Regards to the frequency band operation; the lowest, middle and highest frequency of channel were selected to perform the test, and then shown on this report.

1.2. Test Mode

DEKRA has verified the construction and function in typical operation. The preliminary tests were performed in different data rate, and to find the worst condition, which was shown in this test report. The following table is the final test mode.

TX	Mode 1: Tx_CDD Mode (802.11 b/g) Mode 2: Tx_MIMO Mode (802.11 n20/n40)
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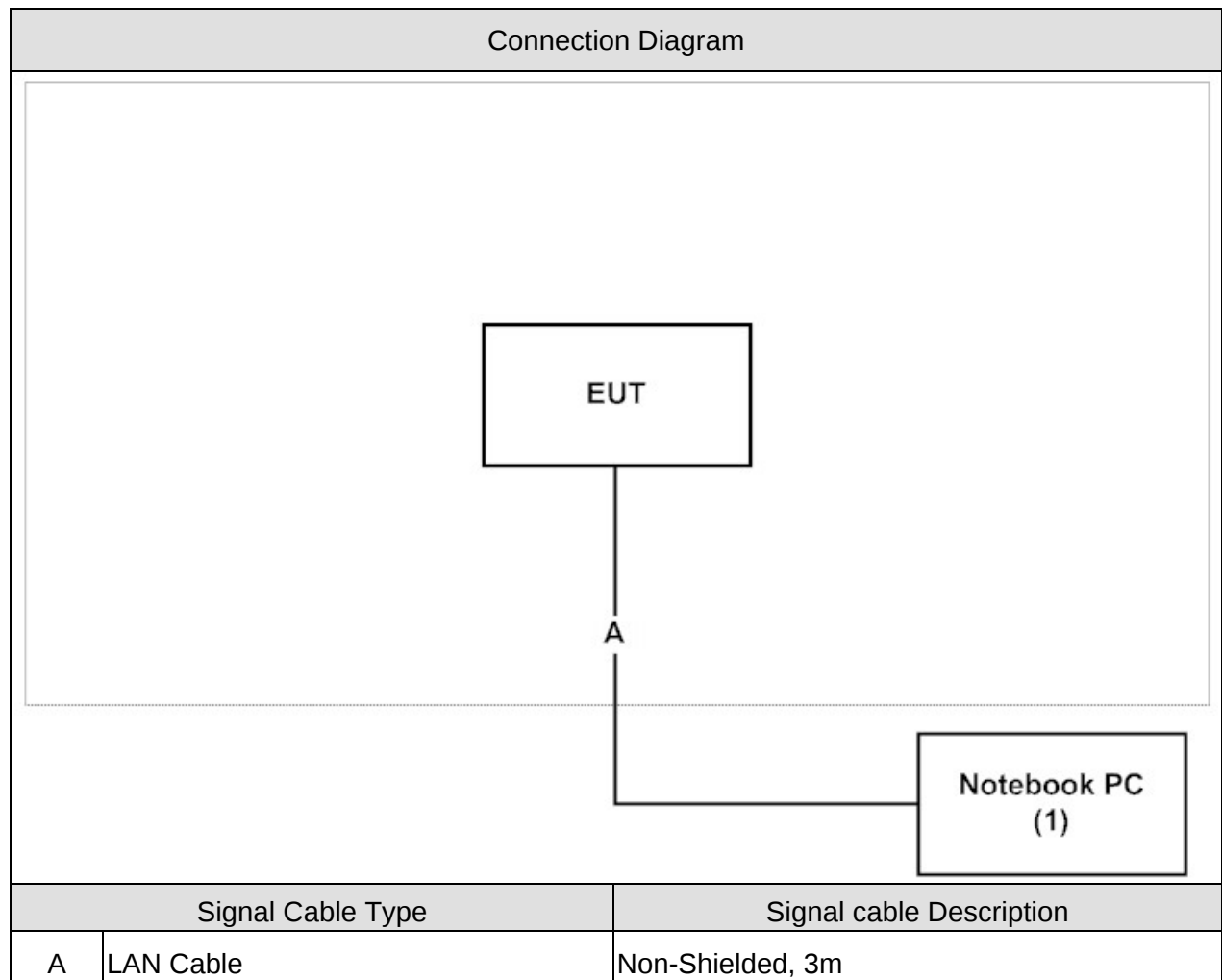
Test Items	Modulation	Channel	Antenna	Result
Conducted Emission	11n(40MHz)	6	0+1	Complies
Peak Power Output	11b/g	1/ 6/ 11	0+1	Complies
	11n(20MHz)	1/ 6/ 11	0+1	Complies
	11n(40MHz)	3/ 6/ 9	0+1	Complies
Radiated Emission	11b/g	1/ 6/ 11	0+1	Complies
	11n(20MHz)	1/ 6/ 11	0+1	Complies
	11n(40MHz)	3/ 6/ 9	0+1	Complies
RF antenna conducted test	11b/g	1/ 6/ 11	0+1	Complies
	11n(20MHz)	1/ 6/ 11	0+1	Complies
	11n(40MHz)	3/ 6/ 9	0+1	Complies
Radiated Emission Band Edge	11b/g	1/ 6/ 11	0+1	Complies
	11n(20MHz)	1/ 6/ 11	0+1	Complies
	11n(40MHz)	3/ 6/ 9	0+1	Complies
DTS Bandwidth	11b/g	1/ 6/ 11	0+1	Complies
	11n(20MHz)	1/ 6/ 11	0+1	Complies
	11n(40MHz)	3 / 6 / 9	0+1	Complies
Occupied Bandwidth	11b/g	1/ 6/ 11	0+1	Complies
	11n(20MHz)	1/ 6/ 11	0+1	Complies
	11n(40MHz)	3/ 6/ 9	0+1	Complies
Power Density	11b/g	1/ 6/ 11	0+1	Complies
	11n(20MHz)	1/ 6/ 11	0+1	Complies
	11n(40MHz)	3/ 6/ 9	0+1	Complies

1.3. Tested System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product	Manufacturer	Model No.	Serial No.	FCC ID	Power Cord
1 Notebook PC	DELL	LATITUDE D400	GK43D1S	D°C	Non-Shielded, 1.7m, one ferrite core bonded

1.4. Configuration of tested System



1.5. EUT Exercise Software

1	Setup the EUT as shown in Section 1.4.
2	Execute the "QRCT.exe" on the EUT.
3	Configure the test mode, the test channel, and the data rate.
4	Press "Start TX" to start the continuous transmitting.
5	Verify that the EUT works properly.

1.6. Test Facility

Ambient conditions in the laboratory:

Items	Test Item	Required (IEC 68-1)	Actual	Test Site
Temperature (°C)	FCC PART 15 C 15.207 Conducted Emission	15 - 35	20	3
Humidity (%RH)		25 - 75	50	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 Peak Power Output	15 - 35	25	3
Humidity (%RH)		25 - 75	45	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 Radiated Emission	15 - 35	25	2
Humidity (%RH)		25 - 75	65	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 RF antenna conducted test	15 - 35	25	3
Humidity (%RH)		25 - 75	45	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 Band Edge	15 - 35	25	2
Humidity (%RH)		25 - 75	48	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 Occupied Bandwidth & DTS Bandwidth	15 - 35	25	3
Humidity (%RH)		25 - 75	45	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 Power Density	15 - 35	25	3
Humidity (%RH)		25 - 75	45	
Barometric pressure (mbar)		860 - 1060	950-1000	

Note: Test Site information refers to Laboratory Information.

1.7. Duty Cycle

Modulation	Duty cycle	Radiated offset
IEEE 802.11b	0.9939	0.0531
IEEE 802.11g	0.9617	0.3392
IEEE 802.11n (20MHz)	0.9615	0.3410
IEEE 802.11n (40MHz)	0.9276	0.6528

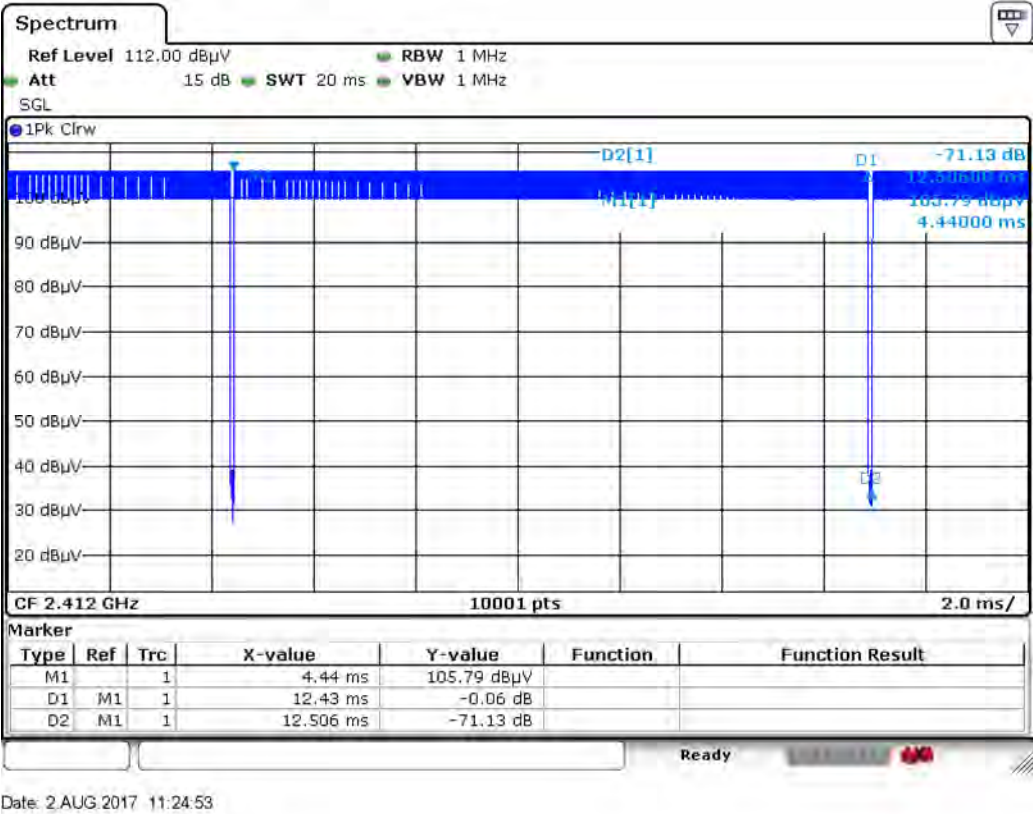
Note: Offset = $20 \log(1/\text{duty cycle})$

Accotding to KDB 789033

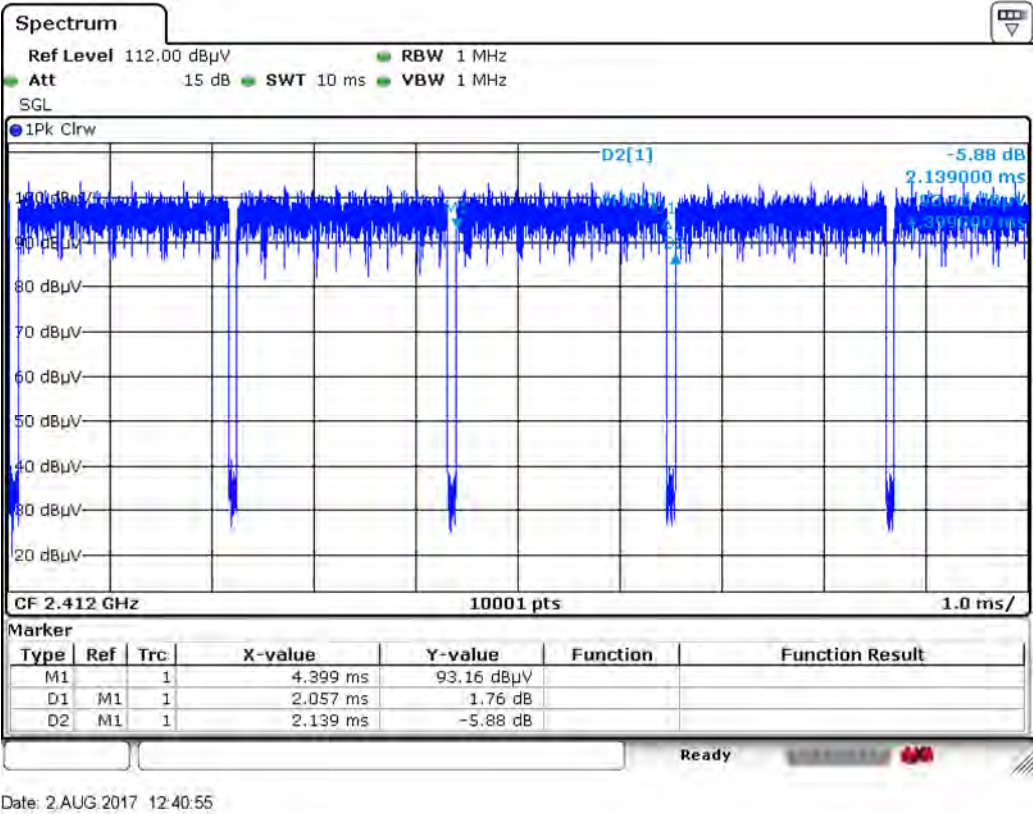
If power averaging (rms) mode was used in step (iv) above, the correction factor is $10 \log (1/x)$, where x is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB must be added to the measured emission levels.

If linear voltage averaging mode was used in step (iv) above, the correction factor is $20 \log (1/x)$, where x is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB must be added to the measured emission levels.

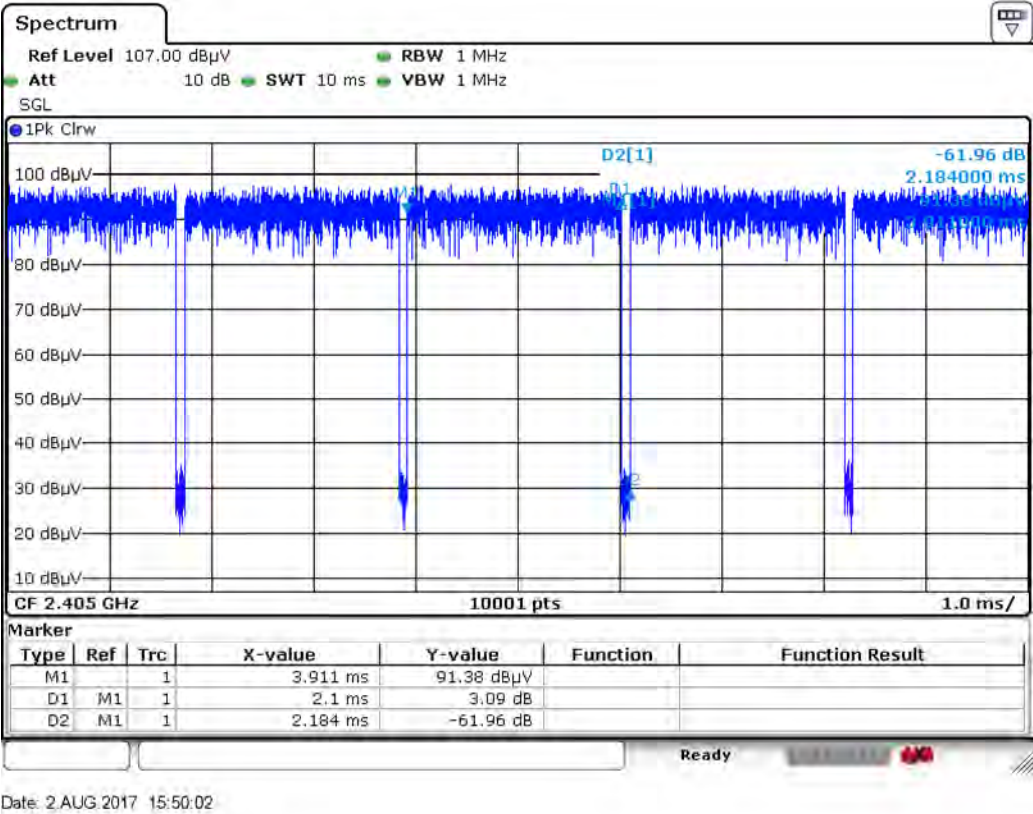
IEEE 802.11b



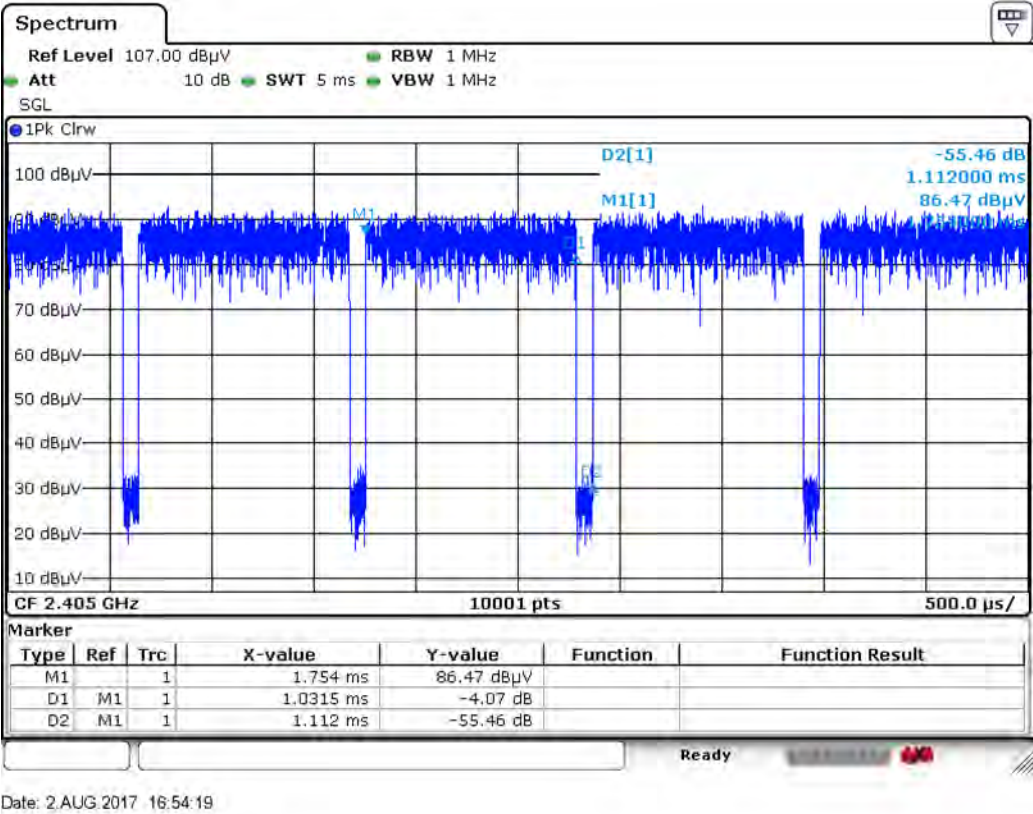
IEEE 802.11g



IEEE 802.11n (20MHz)



IEEE 802.11n (40MHz)



2. Conducted Emission

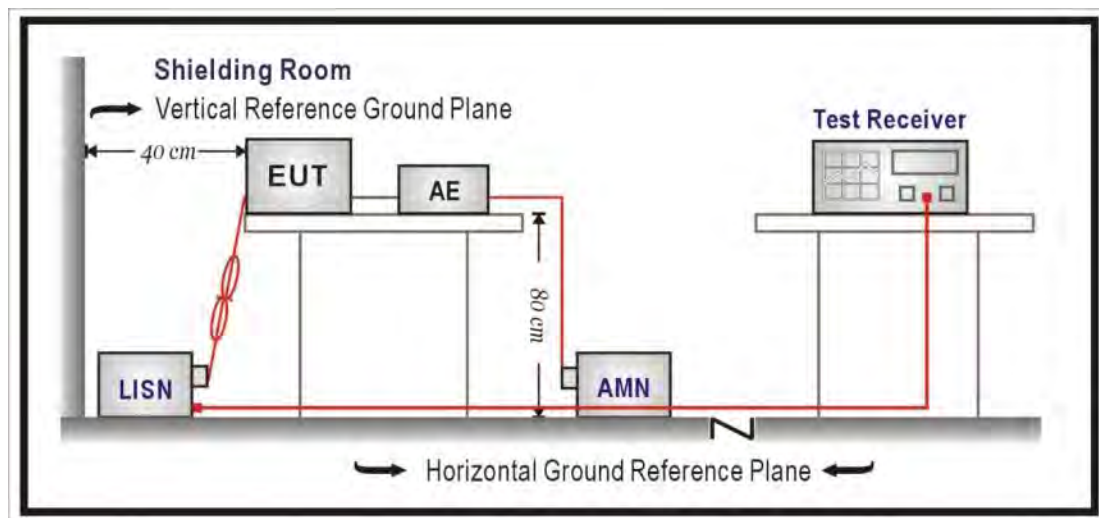
2.1. Test Equipment

The following test equipments are used during the test:

Conducted Emission /SR2-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Artificial Mains Network	R&S	ENV4200	848411/010	2017/02/06	2018/02/05
Test Receiver	R&S	ESCS 30	836858/022	2017/04/12	2018/04/11
LISN	R&S	ENV216	100092	2017/07/31	2018/07/30

2.2. Test Setup



2.3. Limits

FCC Part 15 Subpart C Paragraph 15.207 Limits (dBuV)		
Frequency MHz	QP	AV
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Remarks: In the above table, the tighter limit applies at the band edges.

2.4. Test Procedure

The EUT was setup according to ANSI C63.4: 2013 and tested according to DTS test procedure of KDB558074 for compliance to FCC 47CFR 15.247 requirements.

The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs.)

Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

2.5. Test Specification

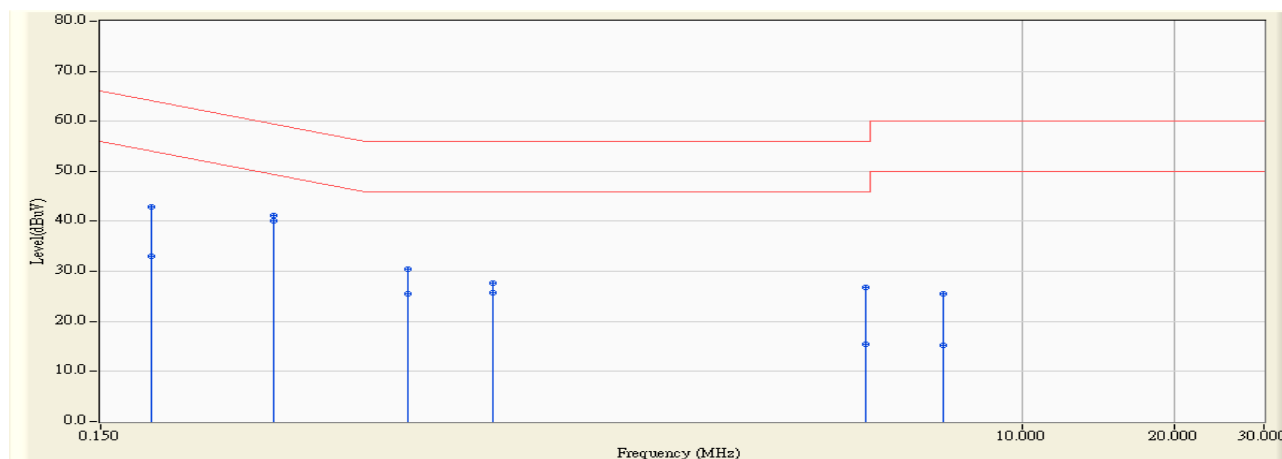
According to FCC Part 15 Subpart C Paragraph 15.207: 2015

2.6. Uncertainty

The measurement uncertainty is defined as ± 2.26 dB.

2.7. Test Result

Site : SR2-H	Time : 2017/08/17
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-6_0712 - Line1	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 2: Tx_MIMO Mode (802.11 n20/n40) 802.11n(40M)_2437MHz

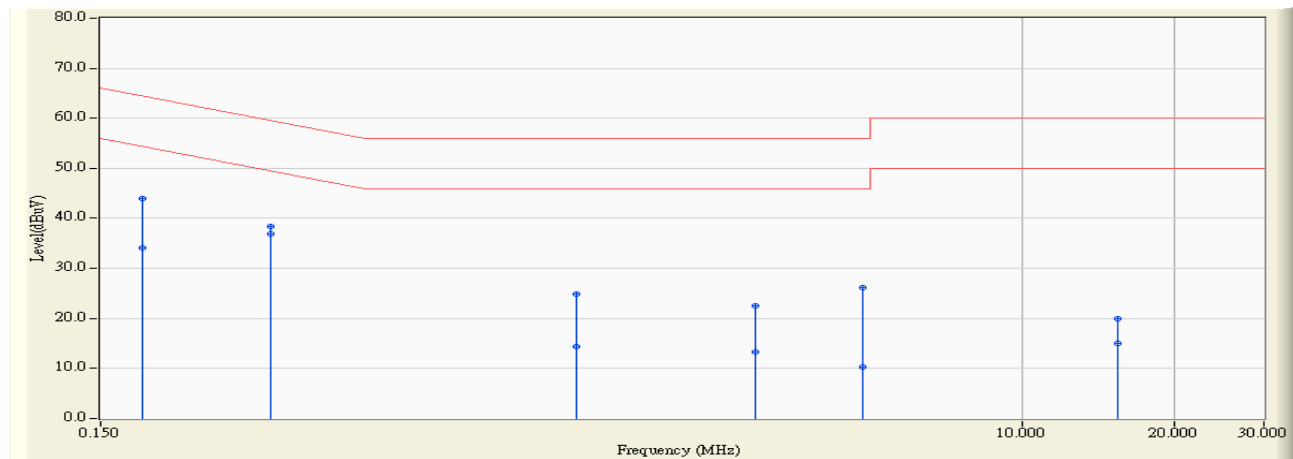


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.189	9.751	33.120	42.871	-21.207	64.078	QUASIPeAK
2		0.189	9.751	23.240	32.991	-21.087	54.078	AVERAGE
3		0.330	9.737	31.520	41.257	-18.202	59.459	QUASIPeAK
4	*	0.330	9.737	30.330	40.067	-9.392	49.459	AVERAGE
5		0.607	9.748	20.610	30.358	-25.642	56.000	QUASIPeAK
6		0.607	9.748	15.800	25.548	-20.452	46.000	AVERAGE
7		0.896	9.801	17.940	27.741	-28.259	56.000	QUASIPeAK
8		0.896	9.801	15.990	25.791	-20.209	46.000	AVERAGE
9		4.877	9.921	16.890	26.811	-29.189	56.000	QUASIPeAK
10		4.877	9.921	5.440	15.361	-30.639	46.000	AVERAGE
11		6.970	10.004	15.580	25.584	-34.416	60.000	QUASIPeAK
12		6.970	10.004	5.190	15.194	-34.806	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : SR2-H	Time : 2017/08/17
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-6_0712 - Line2	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 2: Tx_MIMO Mode (802.11 n20/n40) 802.11n(40M)_2437MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.181	9.752	34.180	43.932	-20.496	64.428	QUASIPeAK
2		0.181	9.752	24.410	34.162	-20.266	54.428	AVERAGE
3		0.326	9.750	28.650	38.400	-21.158	59.558	QUASIPeAK
4	*	0.326	9.750	27.210	36.960	-12.598	49.558	AVERAGE
5		1.306	9.829	15.020	24.849	-31.151	56.000	QUASIPeAK
6		1.306	9.829	4.570	14.399	-31.601	46.000	AVERAGE
7		2.966	9.845	12.710	22.555	-33.445	56.000	QUASIPeAK
8		2.966	9.845	3.350	13.195	-32.805	46.000	AVERAGE
9		4.810	9.855	16.410	26.265	-29.735	56.000	QUASIPeAK
10		4.810	9.855	0.510	10.365	-35.635	46.000	AVERAGE
11		15.377	10.325	9.600	19.924	-40.076	60.000	QUASIPeAK
12		15.377	10.325	4.670	14.994	-35.006	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

3. Peak Power Output

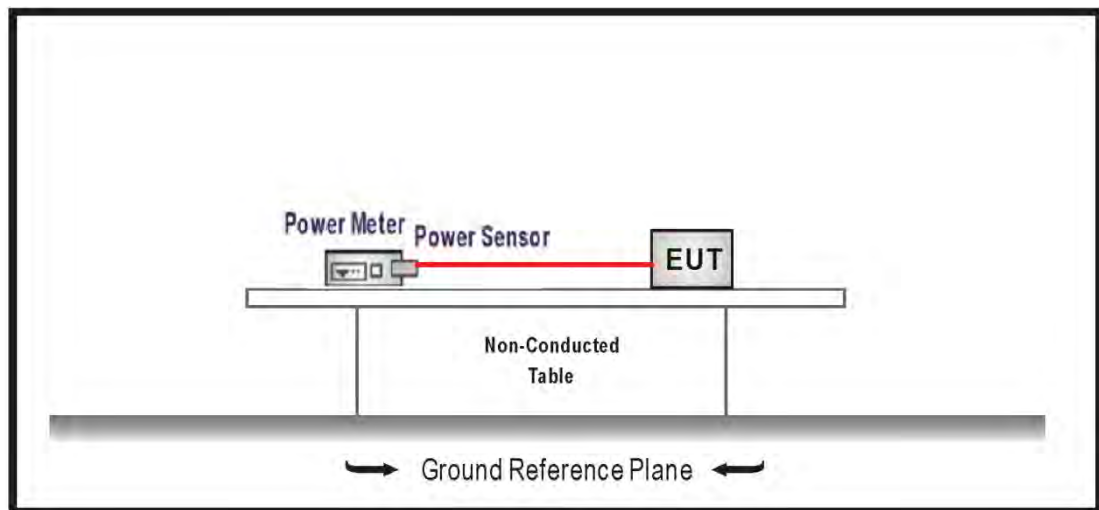
3.1. Test Equipment

The following test equipments are used during the test:

Peak Power /SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
High Speed Peak Power Meter Dual Input	Anritsu	ML2496A	1602004	2017/01/20	2018/01/19
Pulse Power Sensor	Anritsu	MA2411B	1531043	2017/01/20	2018/01/19
Pulse Power Sensor	Anritsu	MA2411B	1531044	2017/01/20	2018/01/19

3.2. Test Setup



3.3. Test procedures

The EUT was tested according to DTS test procedure section 9.1.2 of KDB558074 D01 V04, Measurement to FCC 47CFR 15.247 requirements.

3.4. Limits

The maximum peak power shall be less 1 Watt.

3.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2015

3.6. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB.

3.7. Test Result

Product	Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP		
Test Item	Peak Power Output		
Test Mode	Mode 1: Tx_CDD Mode (802.11 b/g)		
Date of Test	2017/08/10	Test Site	SR10-H

IEEE 802.11b (ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	21.830	≤ 30
6	2437	22.920	≤ 30
11	2462	21.310	≤ 30

IEEE 802.11b (ANT 1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	21.860	≤ 30
6	2437	22.970	≤ 30
11	2462	20.610	≤ 30

IEEE 802.11b (ANT 0+1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	24.855	≤ 30
6	2437	25.955	≤ 30
11	2462	23.984	≤ 30

Product	Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP		
Test Item	Peak Power Output		
Test Mode	Mode 1: Tx_CDD Mode (802.11 b/g)		
Date of Test	2017/08/10	Test Site	SR10-H

IEEE 802.11g (ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	15.660	≤ 30
6	2437	21.120	≤ 30
11	2462	15.930	≤ 30

IEEE 802.11g (ANT 1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	16.010	≤ 30
6	2437	21.230	≤ 30
11	2462	15.810	≤ 30

IEEE 802.11g (ANT 0+1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	18.849	≤ 30
6	2437	24.186	≤ 30
11	2462	18.881	≤ 30

Product	Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP		
Test Item	Peak Power Output		
Test Mode	Mode 2: Tx_MIMO Mode (802.11 n20/n40)		
Date of Test	2017/08/10	Test Site	SR10-H

IEEE 802.11n20 (ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	15.830	≤ 30
6	2437	20.920	≤ 30
11	2462	16.400	≤ 30

IEEE 802.11n20 (ANT 1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	15.810	≤ 30
6	2437	21.000	≤ 30
11	2462	16.210	≤ 30

IEEE 802.11n20 (ANT 0+1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	18.830	≤ 30
6	2437	23.970	≤ 30
11	2462	19.316	≤ 30

Product	Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP		
Test Item	Peak Power Output		
Test Mode	Mode 2: Tx_MIMO Mode (802.11 n20/n40)		
Date of Test	2017/08/10	Test Site	SR10-H

IEEE 802.11n40 (ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
3	2422	12.400	≤ 30
6	2437	14.210	≤ 30
9	2452	11.120	≤ 30

IEEE 802.11n40 (ANT 1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
3	2422	12.350	≤ 30
6	2437	14.300	≤ 30
9	2452	11.340	≤ 30

IEEE 802.11n40 (ANT 0+1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
3	2422	15.385	≤ 30
6	2437	17.266	≤ 30
9	2452	14.242	≤ 30

4. Radiated Emission

4.1. Test Equipment

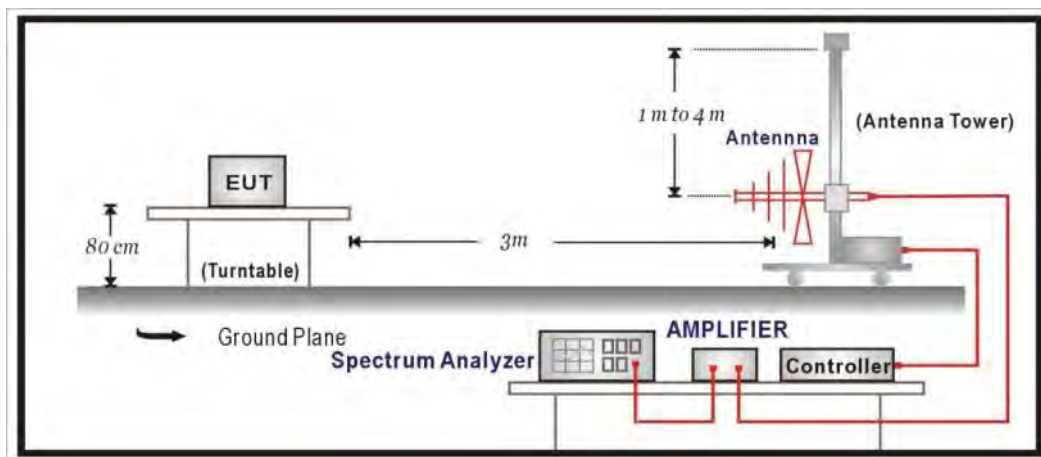
The following test equipments are used during the test:

Radiated Emission / CB4-H

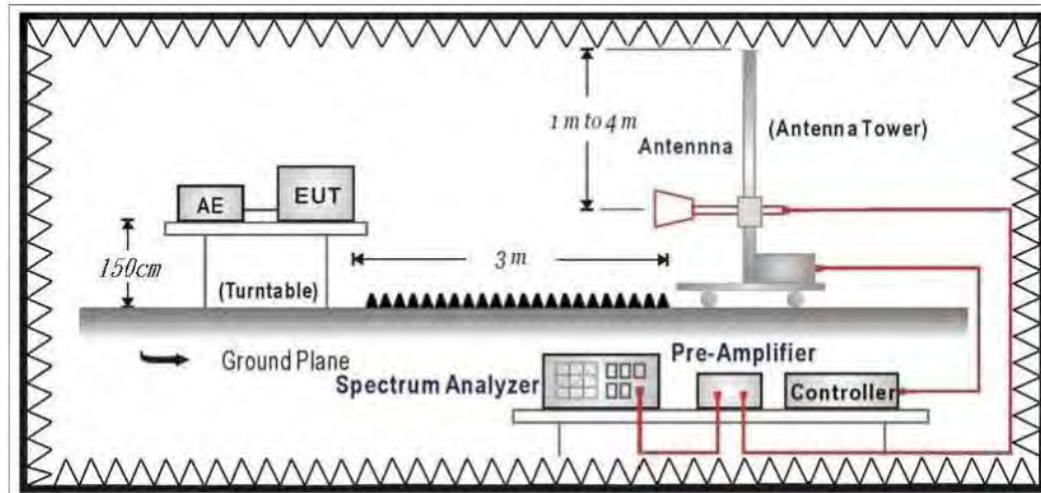
Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal Analyzer	R&S	FSVA40	101455	2016/11/28	2017/11/27
Signal & Spectrum Analyzer	R&S	FSV40	101049	2017/01/23	2018/01/22
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2017/03/13	2018/03/12
Bilog Antenna	Teseq	CBL6112D	23191	2017/06/28	2018/06/27
Horn Antenna	Schwarzbeck	BBHA 9120D	639	2017/06/14	2018/06/13
Horn Antenna	Schwarzbeck	BBHA 9170	203	2016/08/29	2017/08/28
Pre-Amplifier	RF Bay Inc.	LNA-1330	12162511	2017/03/09	2018/03/08
Pre-Amplifier	EMCI	EMCI 1830I	980366	2017/01/23	2018/01/22
Pre-Amplifier	MITEQ	JS44-45-8P	2014754	2016/12/26	2017/12/25

4.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



4.3. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

FCC Part 15 Subpart C Paragraph 15.209 Limits		
Frequency MHz	dBuV/m	dBuV/m
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Remarks: E field strength (dBuV/m) = 20 log E field strength (uV/m)

4.4. Test Procedure

The EUT was setup according to ANSI C63.10:2013 and tested according to DTS test procedure of KDB558074 D01 V04 for compliance to FCC 47CFR 15.247 requirements. The EUT and its simulators are placed on a turn table which is 1.5 meter above ground (under 1GHz) or 1.5 meter above ground (above 1GHz). The turn table can rotate 360 degrees to determine the position of the maximum emission level.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10:2013 on radiated measurement.

On any frequency or frequencies below or equal to 1000 MHz, the limits shown are based on measuring equipment employing a quasi-peak detector function and on any frequency or frequencies above 1000 MHz the radiated limits shown are based upon the use of measurement instrumentation employing an average detector function. When average radiated emission measurement are included emission measurement below 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit. The bandwidth below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz.

4.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2015

4.6. Uncertainty

The measurement uncertainty

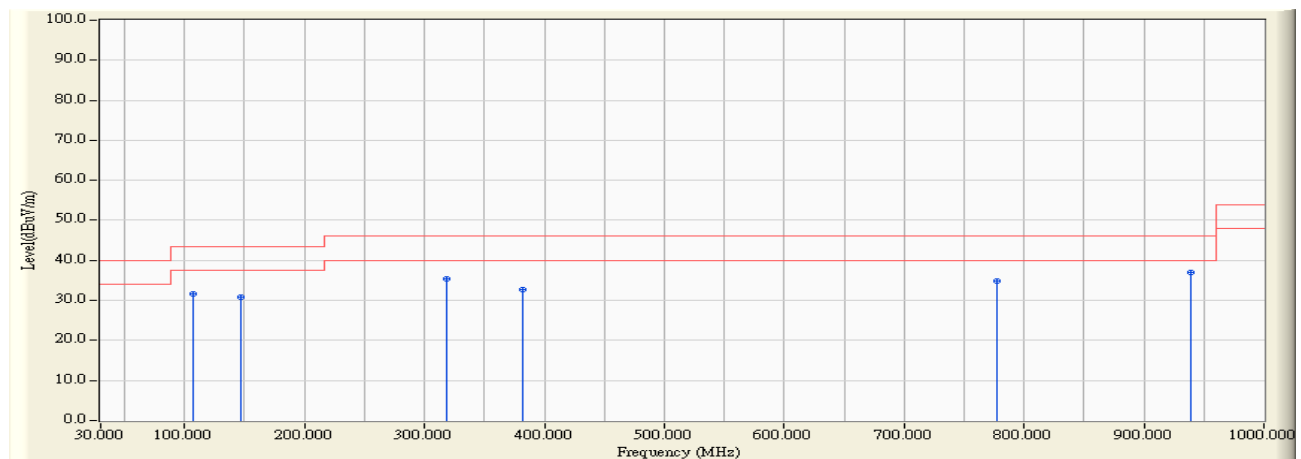
30MHz~1GHz as $\pm 3.43\text{dB}$

1GHz~26.5Ghz as $\pm 3.65\text{dB}$

4.7. Test Result

30MHz-1GHz Spurious

Site : CB4-H	Time : 2017/08/05
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB4_FCC_EFS_S2_30M-1GHz_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 1: Tx_CDD Mode (802.11 b/g)_ 802.11b_2437MHz

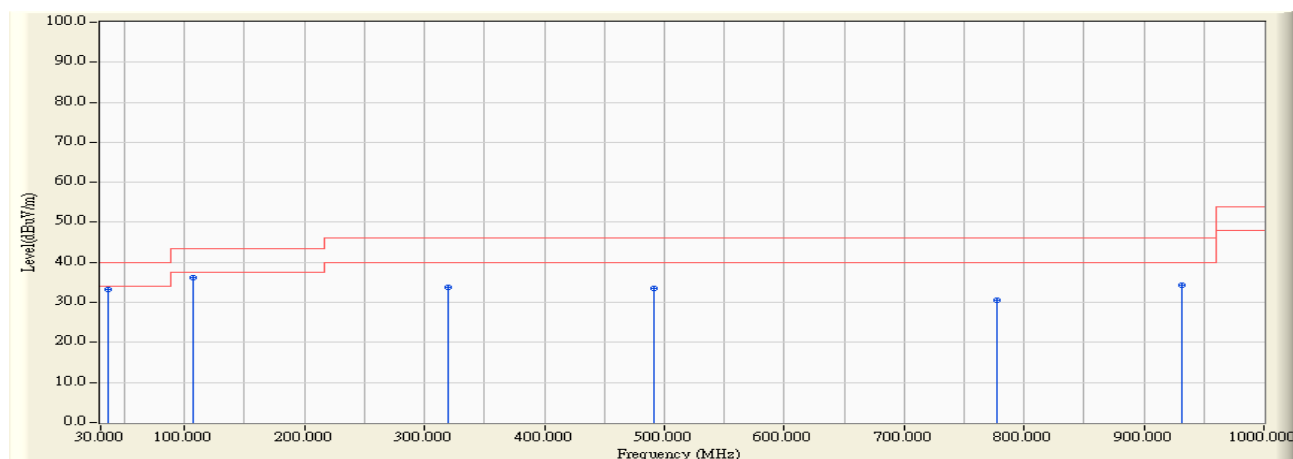


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		107.115	-21.847	53.440	31.593	-11.907	43.500	QUASIPeAK
2		147.370	-22.074	53.037	30.963	-12.537	43.500	QUASIPeAK
3		319.060	-18.732	54.018	35.285	-10.715	46.000	QUASIPeAK
4		381.625	-16.699	49.333	32.635	-13.365	46.000	QUASIPeAK
5		776.900	-11.232	45.951	34.719	-11.281	46.000	QUASIPeAK
6	*	938.890	-9.171	46.040	36.868	-9.132	46.000	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB4-H	Time : 2017/08/05
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB4_FCC_EFS_S2_30M-1GHz_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 1: Tx_CDD Mode (802.11 b/g)_802.11b_2437MHz

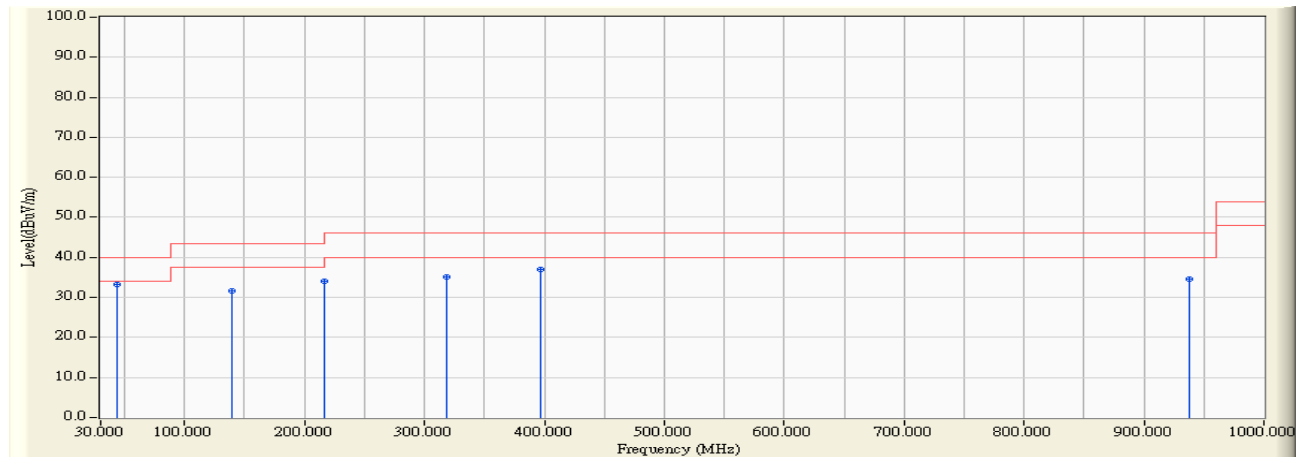


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	36.305	-15.445	48.641	33.196	-6.804	40.000	QUASIPeAK
2		106.630	-21.784	58.089	36.306	-7.194	43.500	QUASIPeAK
3		319.545	-18.658	52.363	33.705	-12.295	46.000	QUASIPeAK
4		491.235	-14.483	48.128	33.645	-12.355	46.000	QUASIPeAK
5		776.900	-11.232	41.862	30.630	-15.370	46.000	QUASIPeAK
6		932.100	-9.327	43.544	34.218	-11.782	46.000	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB4-H	Time : 2017/08/05
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB4_FCC_EFS_S2_30M-1GHz_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 1: Tx_CDD Mode (802.11 b/g)_ 802.11g_2437MHz

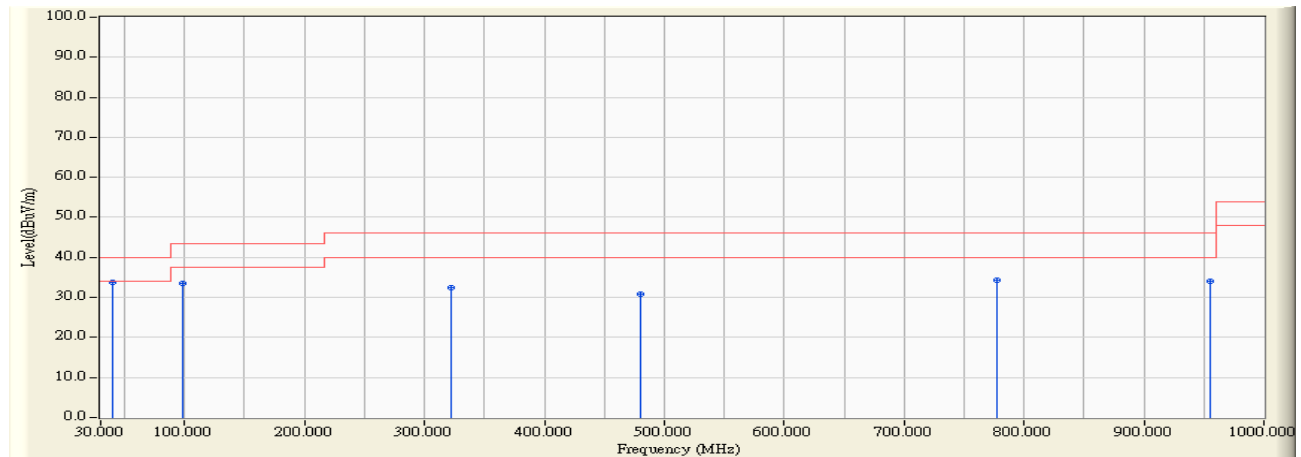


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	43.095	-19.315	52.581	33.266	-6.734	40.000	QUASIPeAK
2		139.125	-21.254	52.940	31.686	-11.814	43.500	QUASIPeAK
3		216.240	-22.300	56.421	34.120	-11.880	46.000	QUASIPeAK
4		319.060	-18.732	53.803	35.070	-10.930	46.000	QUASIPeAK
5		397.145	-16.479	53.365	36.886	-9.114	46.000	QUASIPeAK
6		938.405	-9.185	43.733	34.548	-11.452	46.000	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB4-H	Time : 2017/08/05
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB4_FCC_EFS_S2_30M-1GHz_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 1: Tx_CDD Mode (802.11 b/g)_802.11g_2437MHz

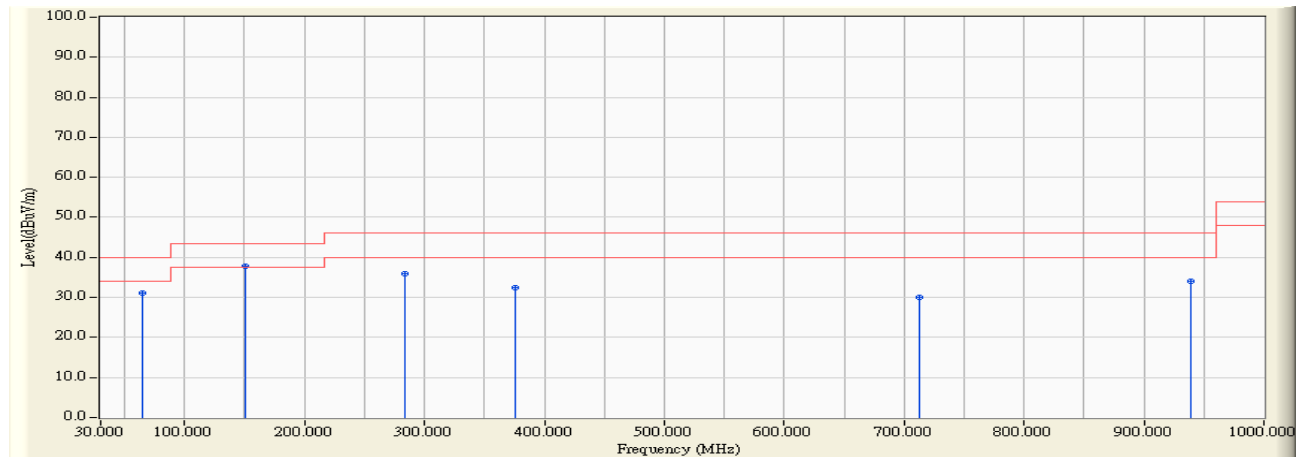


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	39.700	-15.564	49.278	33.714	-6.286	40.000	QUASIPeAK
2		98.385	-22.936	56.546	33.610	-9.890	43.500	QUASIPeAK
3		321.970	-18.707	51.023	32.316	-13.684	46.000	QUASIPeAK
4		480.080	-14.639	45.368	30.729	-15.271	46.000	QUASIPeAK
5		777.385	-11.216	45.632	34.416	-11.584	46.000	QUASIPeAK
6		954.895	-8.940	42.924	33.984	-12.016	46.000	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB4-H	Time : 2017/08/05
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB4_FCC_EFS_S2_30M-1GHz_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 2: Tx_MIMO Mode (802.11 n20/n40)_ 802.11n(20M)_2437MHz

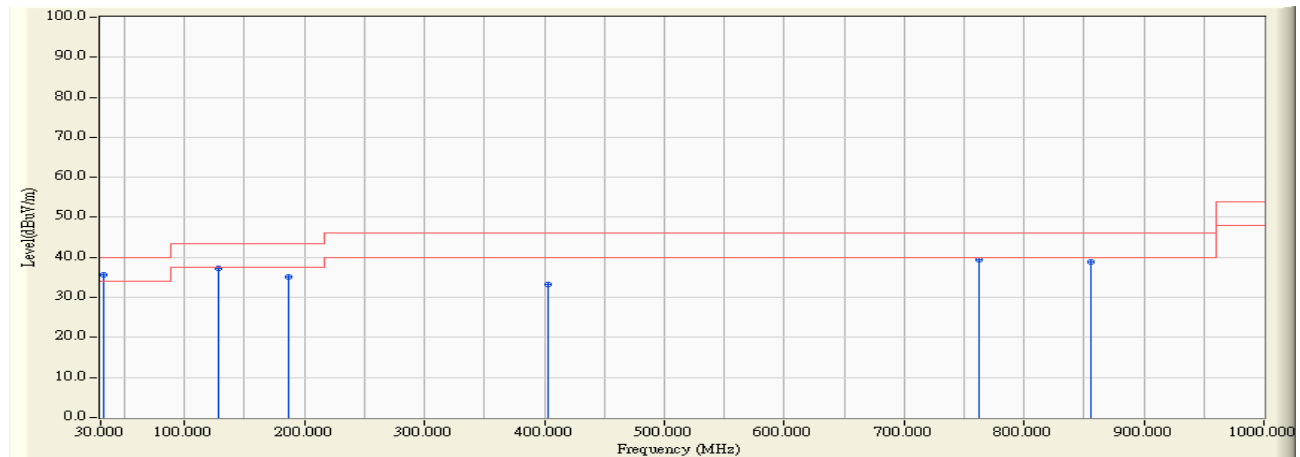


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		64.435	-28.242	59.246	31.004	-8.996	40.000	QUASIPeAK
2	*	150.280	-22.269	60.149	37.880	-5.620	43.500	QUASIPeAK
3		283.170	-19.740	55.647	35.908	-10.092	46.000	QUASIPeAK
4		375.805	-16.974	49.375	32.401	-13.599	46.000	QUASIPeAK
5		712.395	-11.999	42.087	30.087	-15.913	46.000	QUASIPeAK
6		938.890	-9.171	43.153	33.981	-12.019	46.000	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB4-H	Time : 2017/08/05
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB4_FCC_EFS_S2_30M-1GHz_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 2: Tx_MIMO Mode (802.11 n20/n40)_802.11n(20M)_2437MHz

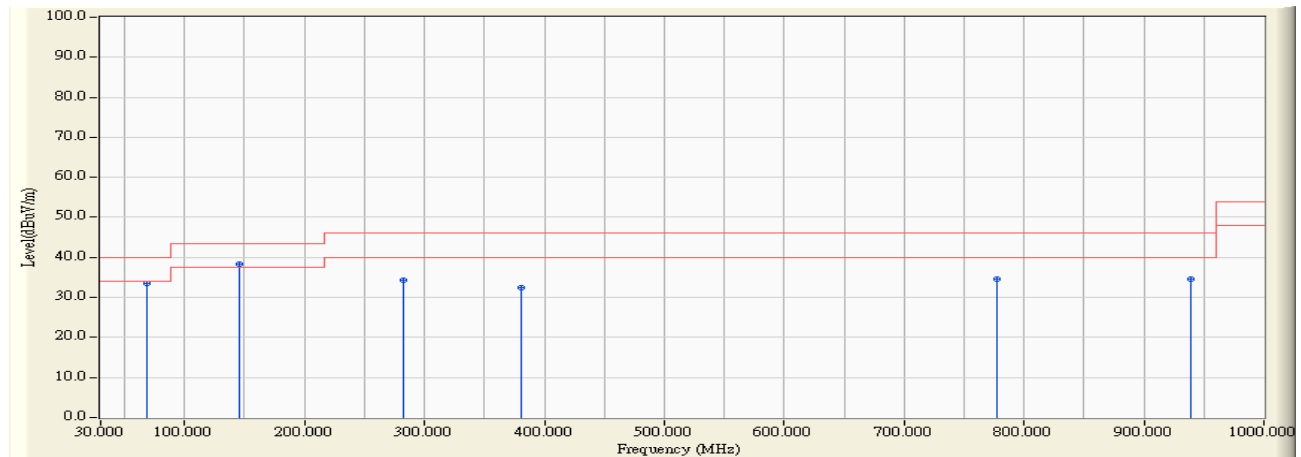


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	32.910	-15.401	51.143	35.742	-4.258	40.000	QUASIPeAK
2		128.455	-21.045	58.199	37.154	-6.346	43.500	QUASIPeAK
3		187.140	-23.990	58.990	35.000	-8.500	43.500	QUASIPeAK
4		402.480	-16.304	49.467	33.163	-12.837	46.000	QUASIPeAK
5		761.865	-11.434	50.780	39.346	-6.654	46.000	QUASIPeAK
6		855.955	-10.277	49.274	38.996	-7.004	46.000	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB4-H	Time : 2017/08/05
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB4_FCC_EFS_S2_30M-1GHz_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 2: Tx_MIMO Mode (802.11 n20/n40)_ 802.11n(40M)_2437MHz

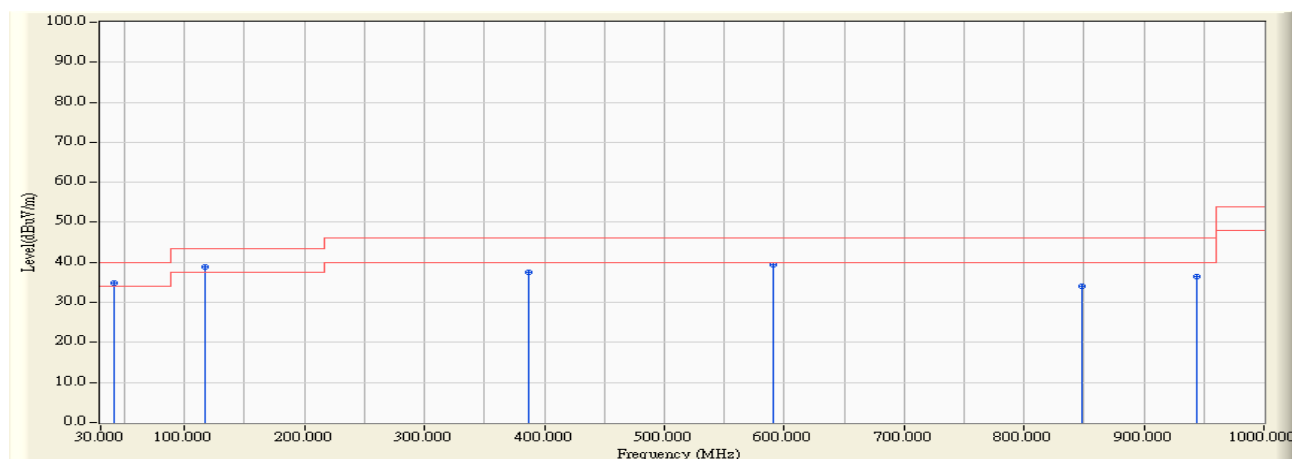


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		68.800	-27.581	61.148	33.568	-6.432	40.000	QUASIPeAK
2	*	145.915	-21.905	60.116	38.211	-5.289	43.500	QUASIPeAK
3		282.685	-19.729	53.932	34.202	-11.798	46.000	QUASIPeAK
4		381.140	-16.742	49.131	32.389	-13.611	46.000	QUASIPeAK
5		777.385	-11.216	45.773	34.557	-11.443	46.000	QUASIPeAK
6		938.890	-9.171	43.703	34.531	-11.469	46.000	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB4-H	Time : 2017/08/05
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB4_FCC_EFS_S2_30M-1GHz_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 2: Tx_MIMO Mode (802.11 n20/n40)_802.11n(40M)_2437MHz



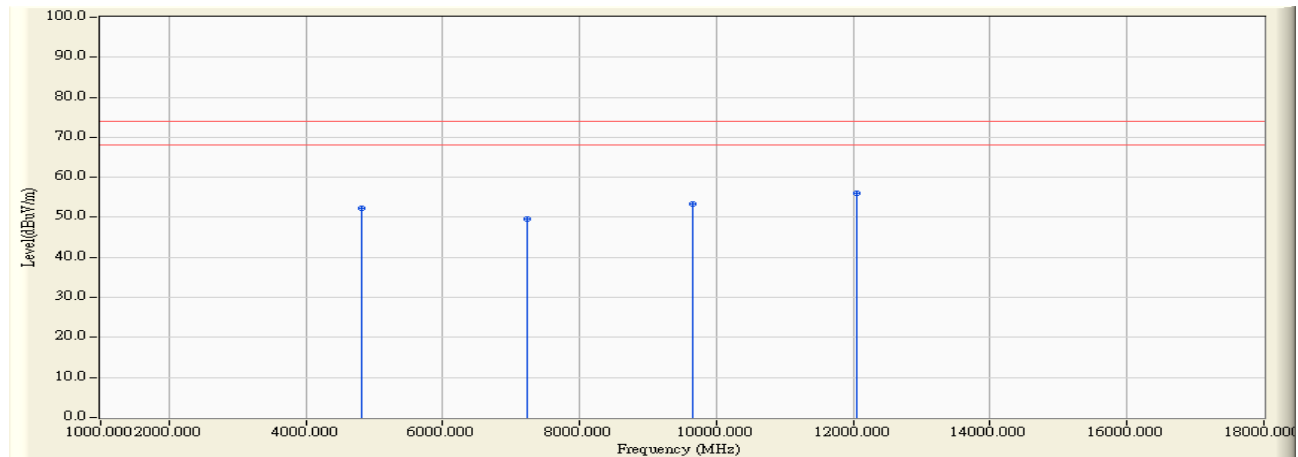
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		41.640	-18.017	52.866	34.849	-5.151	40.000	QUASIPeAK
2	*	117.300	-20.925	59.822	38.897	-4.603	43.500	QUASIPeAK
3		386.960	-16.863	54.410	37.547	-8.453	46.000	QUASIPeAK
4		590.660	-13.239	52.564	39.325	-6.675	46.000	QUASIPeAK
5		848.680	-10.357	44.376	34.019	-11.981	46.000	QUASIPeAK
6		943.740	-9.070	45.450	36.380	-9.620	46.000	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Above 1GHz Spurious

Site : CB4-H	Time : 2017/08/02
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 1: Tx_CDD Mode (802.11 b/g)_ 802.11b_2412MHz

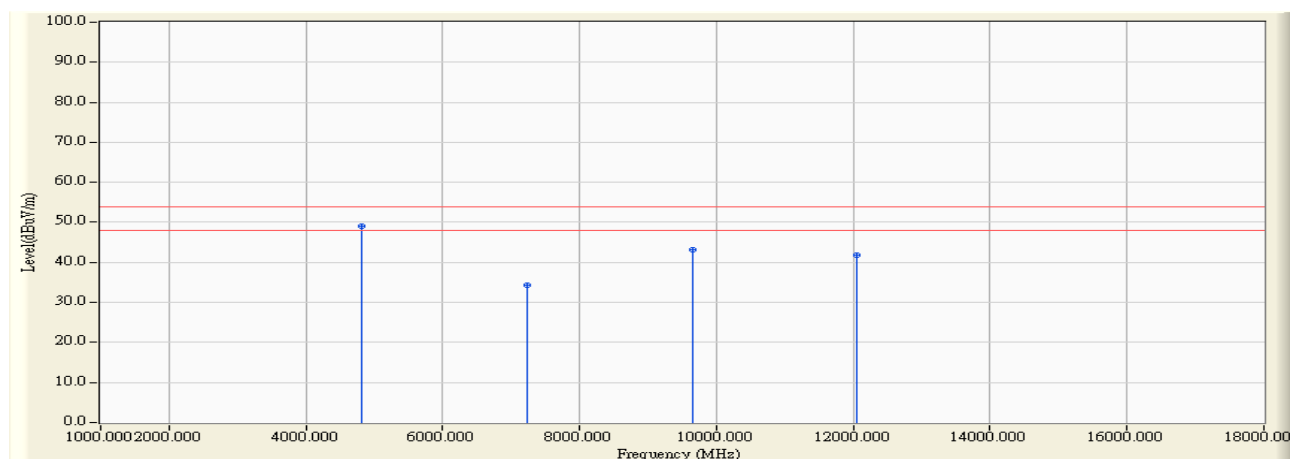


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	0.518	51.880	52.398	-21.602	74.000	PEAK
2		7236.000	8.857	40.660	49.518	-24.482	74.000	PEAK
3		9648.000	13.400	40.050	53.451	-20.549	74.000	PEAK
4	*	12060.000	18.167	37.940	56.106	-17.894	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/08/02
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 1: Tx_CDD Mode (802.11 b/g)_ 802.11b_2412MHz

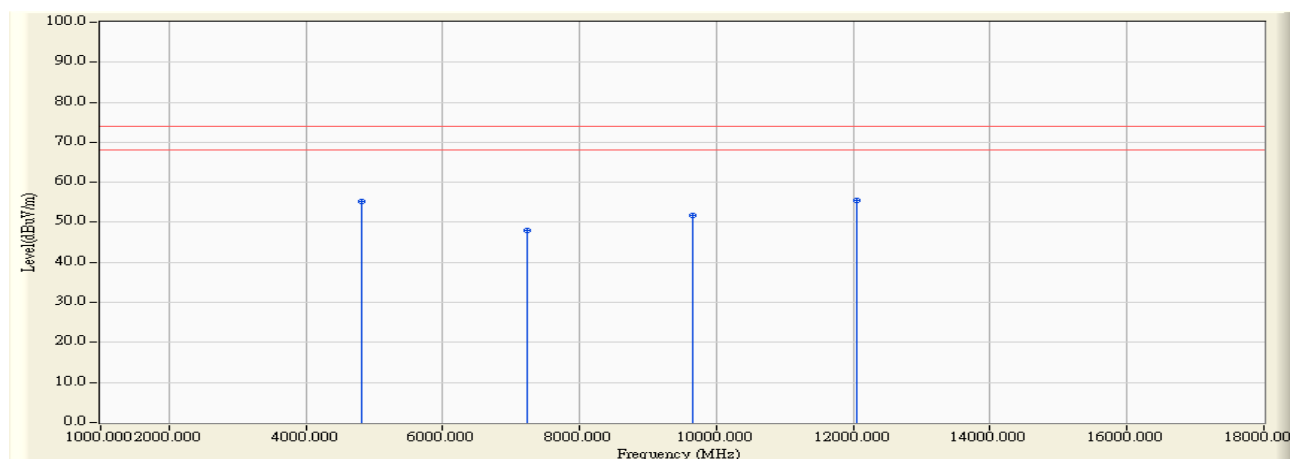


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4824.000	0.518	48.590	49.108	-4.892	54.000	AVERAGE
2		7236.000	8.857	25.420	34.278	-19.722	54.000	AVERAGE
3		9648.000	13.400	29.840	43.241	-10.759	54.000	AVERAGE
4		12060.000	18.167	23.540	41.706	-12.294	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/08/02
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 1: Tx_CDD Mode (802.11 b/g)_ 802.11b_2412MHz

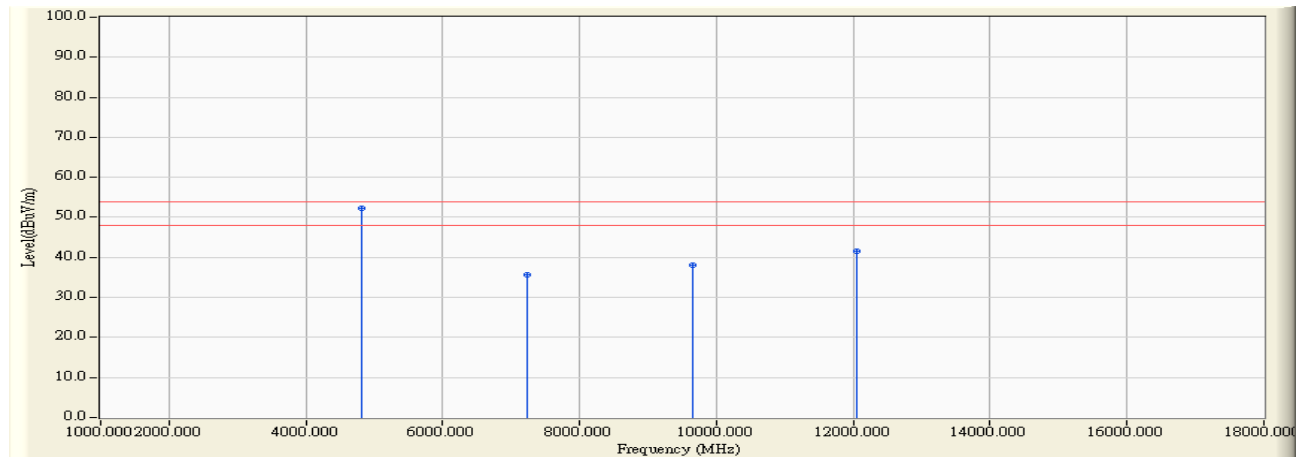


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	0.518	54.610	55.128	-18.872	74.000	PEAK
2		7236.000	8.857	39.220	48.078	-25.922	74.000	PEAK
3		9648.000	13.400	38.470	51.871	-22.129	74.000	PEAK
4	*	12060.000	18.167	37.450	55.616	-18.384	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/08/02
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 1: Tx_CDD Mode (802.11 b/g)_ 802.11b_2412MHz

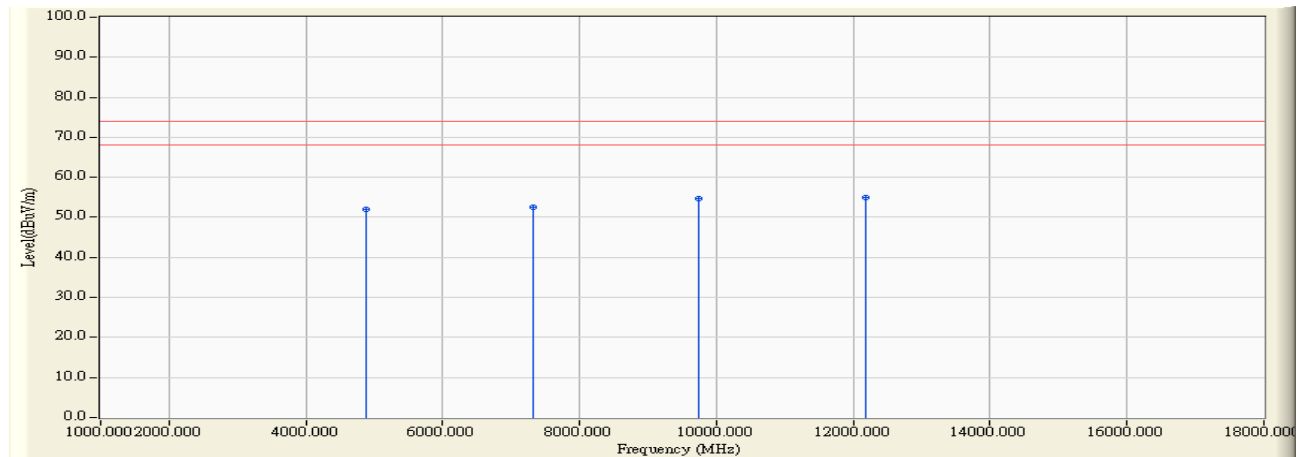


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4824.000	0.518	51.740	52.258	-1.742	54.000	AVERAGE
2		7236.000	8.857	26.880	35.738	-18.262	54.000	AVERAGE
3		9648.000	13.400	24.720	38.121	-15.879	54.000	AVERAGE
4		12060.000	18.167	23.380	41.546	-12.454	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/08/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 1: Tx_CDD Mode (802.11 b/g)_ 802.11b_2437MHz

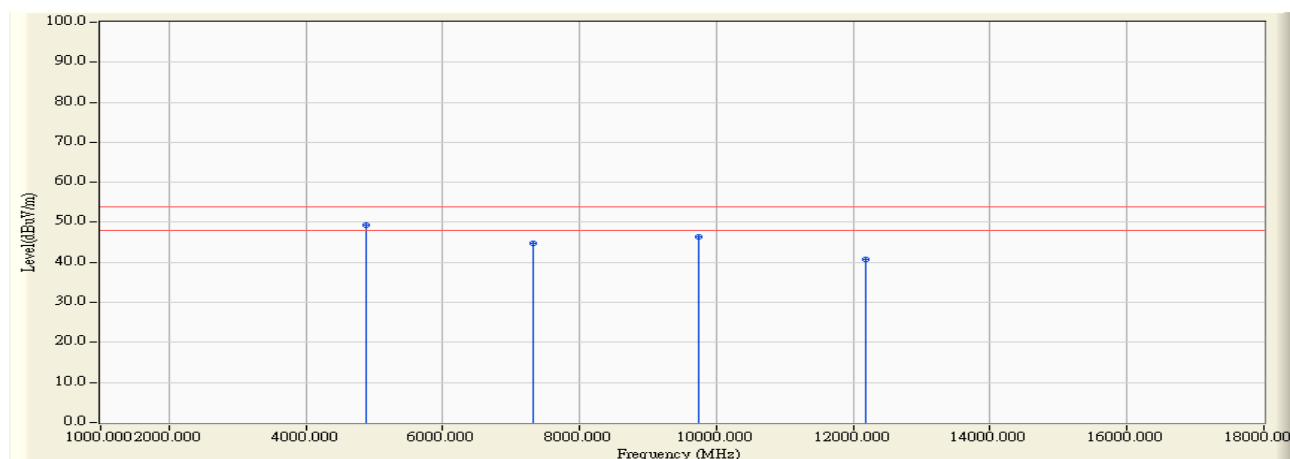


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	0.686	51.370	52.055	-21.945	74.000	PEAK
2		7311.000	9.193	43.240	52.433	-21.567	74.000	PEAK
3		9748.000	13.693	40.900	54.593	-19.407	74.000	PEAK
4	*	12185.000	17.952	37.050	55.002	-18.998	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/08/03
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 1: Tx_CDD Mode (802.11 b/g)_ 802.11b_2437MHz

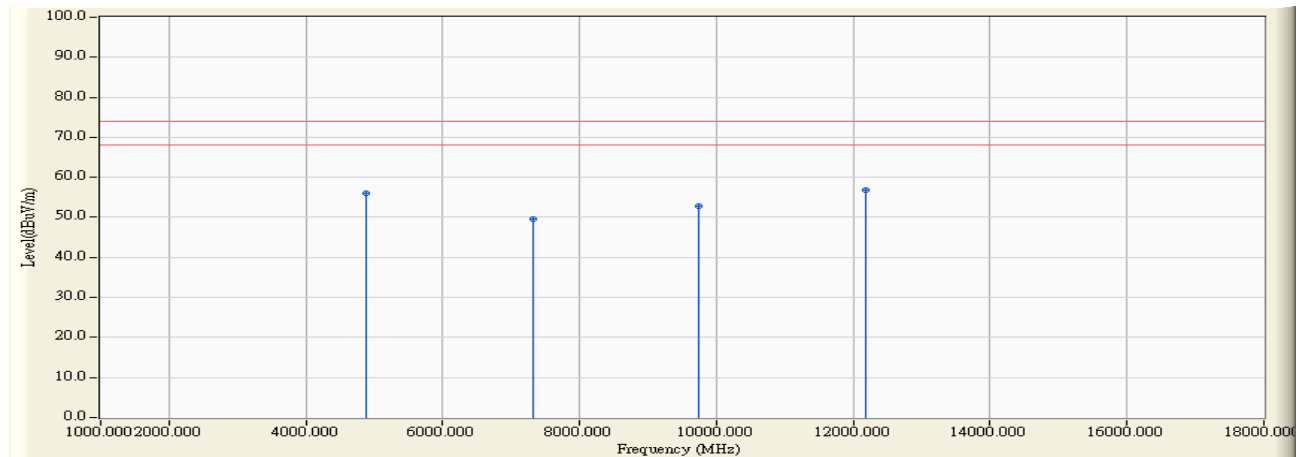


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4874.000	0.686	48.640	49.325	-4.675	54.000	AVERAGE
2		7311.000	9.193	35.570	44.763	-9.237	54.000	AVERAGE
3		9748.000	13.693	32.720	46.413	-7.587	54.000	AVERAGE
4		12185.000	17.952	22.680	40.632	-13.368	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/08/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 1: Tx_CDD Mode (802.11 b/g)_ 802.11b_2437MHz

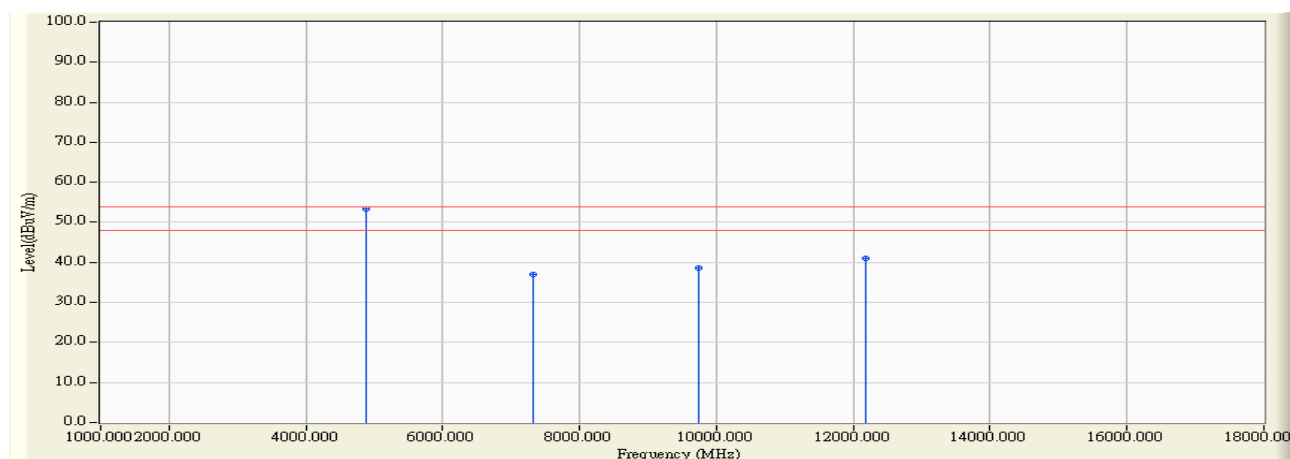


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	0.686	55.370	56.055	-17.945	74.000	PEAK
2		7311.000	9.193	40.370	49.563	-24.437	74.000	PEAK
3		9748.000	13.693	39.110	52.803	-21.197	74.000	PEAK
4	*	12185.000	17.952	38.760	56.712	-17.288	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/08/03
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 1: Tx_CDD Mode (802.11 b/g)_ 802.11b_2437MHz

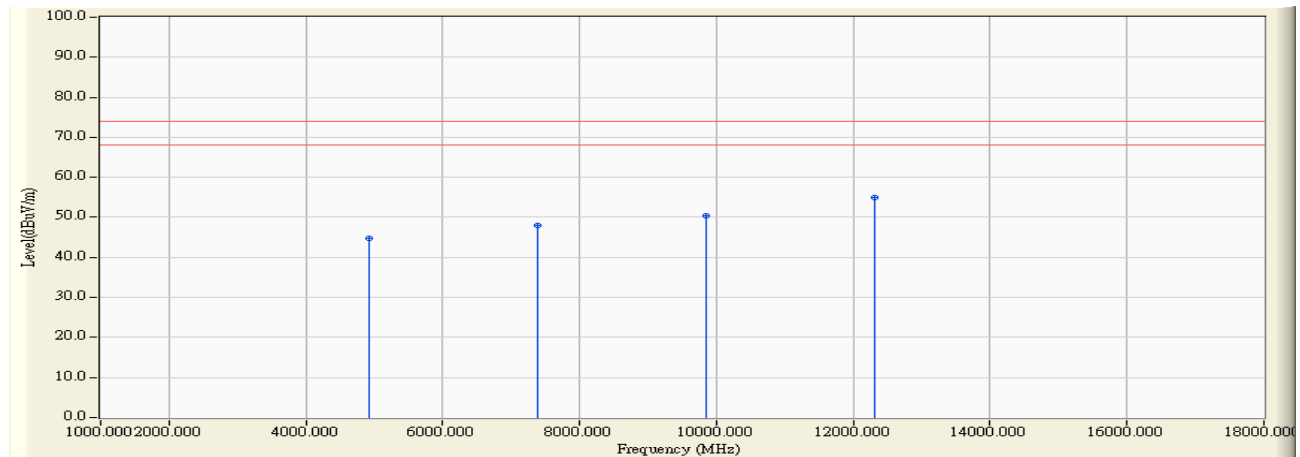


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4874.000	0.686	52.780	53.465	-0.535	54.000	AVERAGE
2		7311.000	9.193	27.860	37.053	-16.947	54.000	AVERAGE
3		9748.000	13.693	24.840	38.533	-15.467	54.000	AVERAGE
4		12185.000	17.952	22.940	40.892	-13.108	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/08/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 1: Tx_CDD Mode (802.11 b/g)_ 802.11b_2462MHz

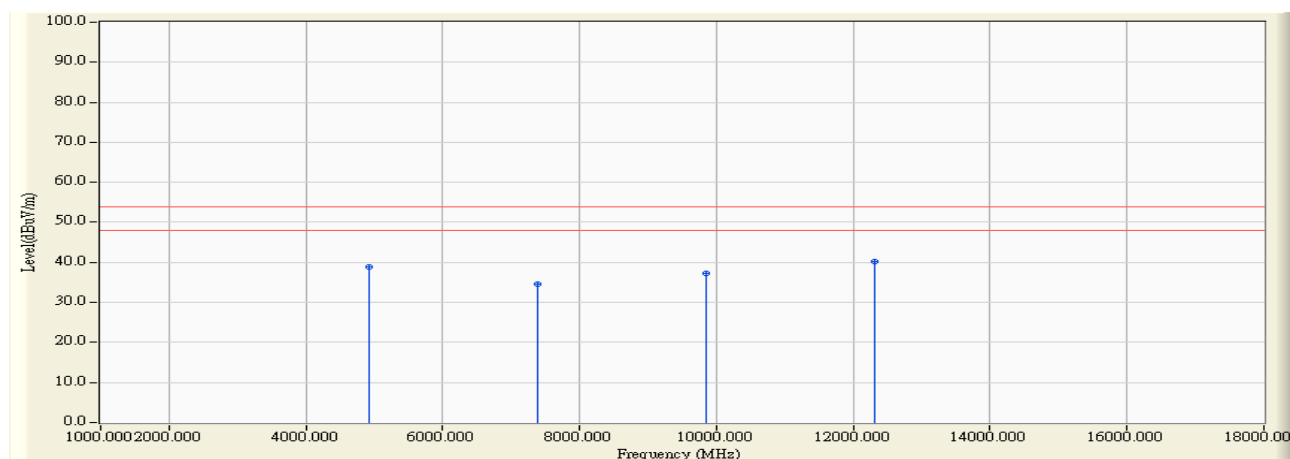


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	0.839	43.840	44.679	-29.321	74.000	PEAK
2		7386.000	9.513	38.530	48.043	-25.957	74.000	PEAK
3		9848.000	13.792	36.740	50.532	-23.468	74.000	PEAK
4	*	12310.000	17.720	37.240	54.959	-19.041	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/08/03
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 1: Tx_CDD Mode (802.11 b/g)_ 802.11b_2462MHz

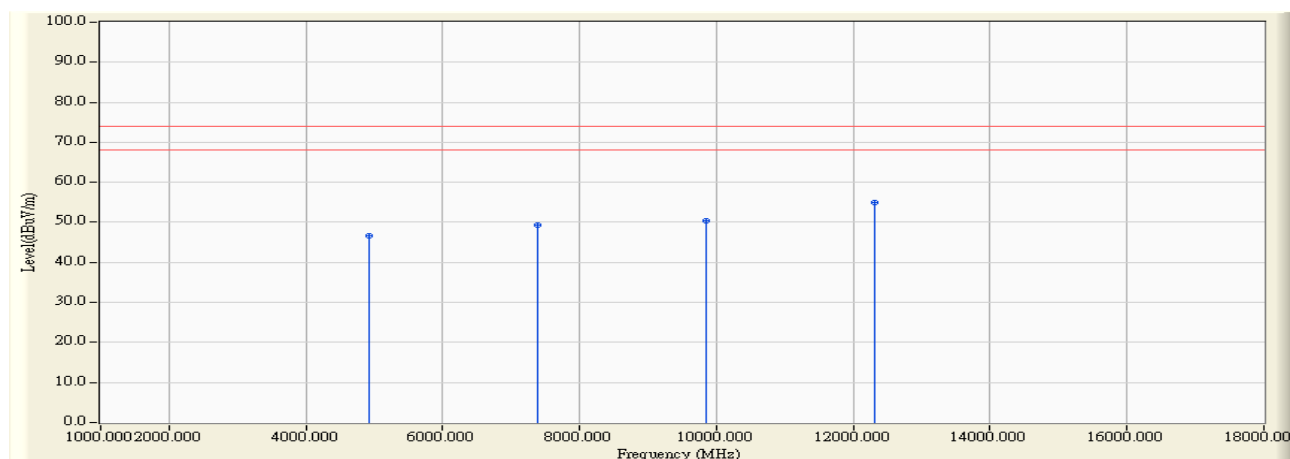


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	0.839	37.910	38.749	-15.251	54.000	AVERAGE
2		7386.000	9.513	25.170	34.683	-19.317	54.000	AVERAGE
3		9848.000	13.792	23.440	37.232	-16.768	54.000	AVERAGE
4	*	12310.000	17.720	22.530	40.249	-13.751	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/08/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 1: Tx_CDD Mode (802.11 b/g)_ 802.11b_2462MHz

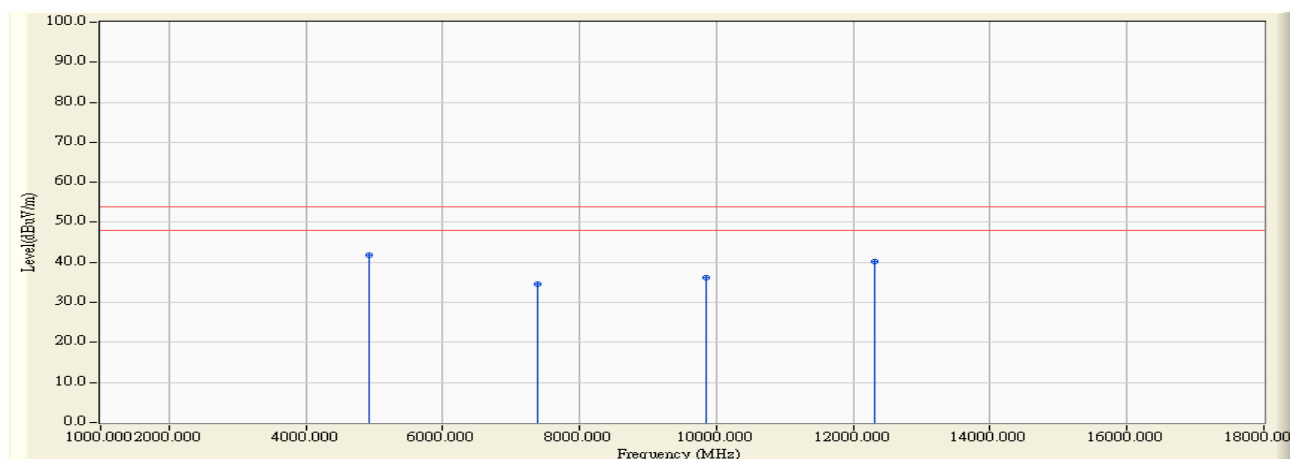


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	0.839	45.850	46.689	-27.311	74.000	PEAK
2		7386.000	9.513	39.730	49.243	-24.757	74.000	PEAK
3		9848.000	13.792	36.580	50.372	-23.628	74.000	PEAK
4	*	12310.000	17.720	37.140	54.859	-19.141	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/08/03
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 1: Tx_CDD Mode (802.11 b/g)_ 802.11b_2462MHz

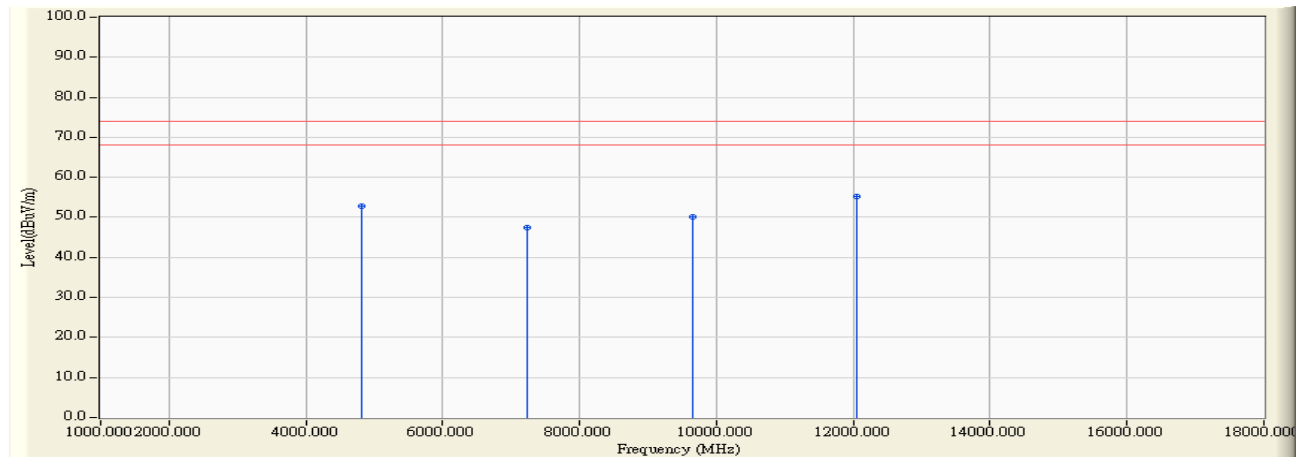


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4924.000	0.839	40.970	41.809	-12.191	54.000	AVERAGE
2		7386.000	9.513	25.180	34.693	-19.307	54.000	AVERAGE
3		9848.000	13.792	22.530	36.322	-17.678	54.000	AVERAGE
4		12310.000	17.720	22.550	40.269	-13.731	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/08/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 1: Tx_CDD Mode (802.11 b/g)_ 802.11g_2412MHz

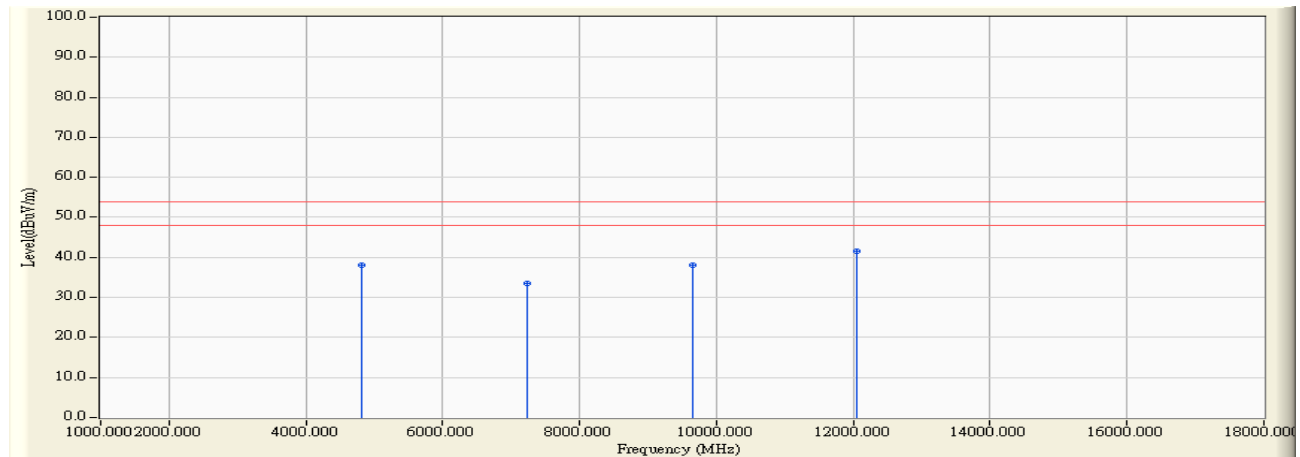


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	0.518	52.220	52.738	-21.262	74.000	PEAK
2		7236.000	8.857	38.500	47.358	-26.642	74.000	PEAK
3		9648.000	13.400	36.830	50.231	-23.769	74.000	PEAK
4	*	12060.000	18.167	37.090	55.256	-18.744	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/08/03
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 1: Tx_CDD Mode (802.11 b/g)_ 802.11g_2412MHz

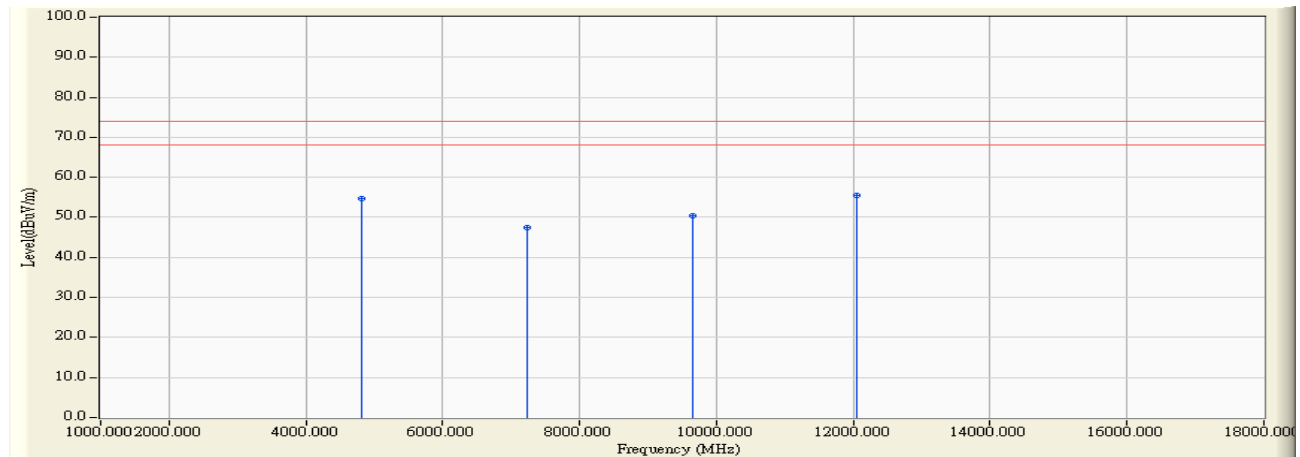


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	0.518	37.580	38.098	-15.902	54.000	AVERAGE
2		7236.000	8.857	24.620	33.478	-20.522	54.000	AVERAGE
3		9648.000	13.400	24.660	38.061	-15.939	54.000	AVERAGE
4	*	12060.000	18.167	23.340	41.506	-12.494	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/08/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 1: Tx_CDD Mode (802.11 b/g)_ 802.11g_2412MHz

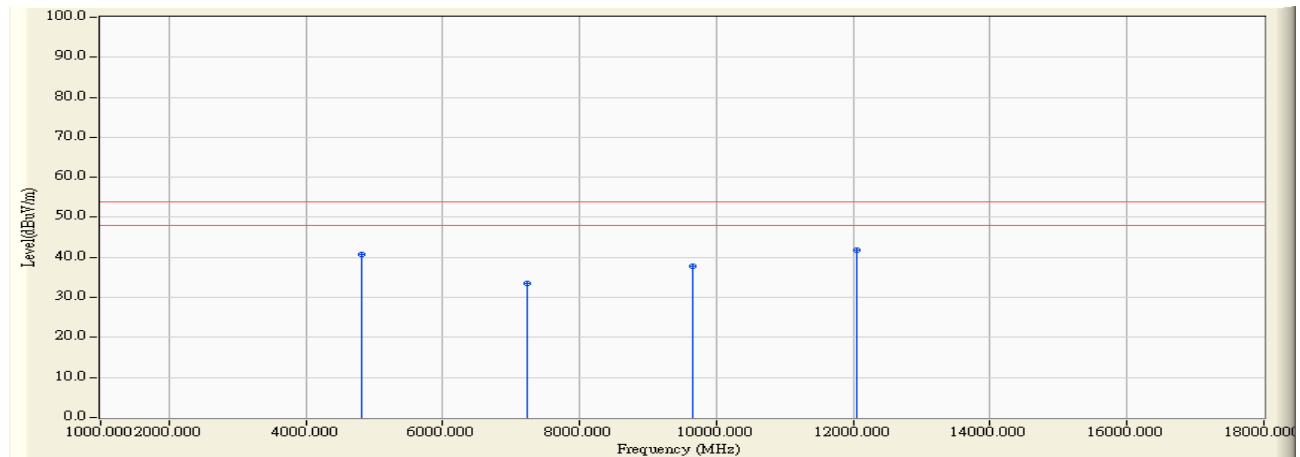


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	0.518	54.140	54.658	-19.342	74.000	PEAK
2		7236.000	8.857	38.620	47.478	-26.522	74.000	PEAK
3		9648.000	13.400	37.030	50.431	-23.569	74.000	PEAK
4	*	12060.000	18.167	37.270	55.436	-18.564	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/08/03
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 1: Tx_CDD Mode (802.11 b/g)_ 802.11g_2412MHz

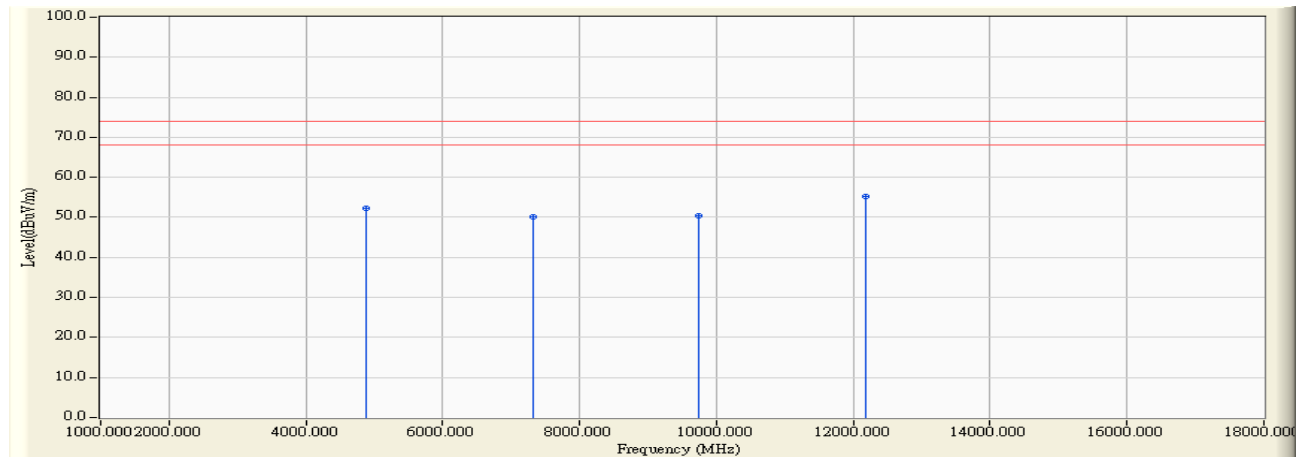


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	0.518	40.240	40.758	-13.242	54.000	AVERAGE
2		7236.000	8.857	24.710	33.568	-20.432	54.000	AVERAGE
3		9648.000	13.400	24.320	37.721	-16.279	54.000	AVERAGE
4	*	12060.000	18.167	23.540	41.706	-12.294	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/08/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 1: Tx_CDD Mode (802.11 b/g)_ 802.11g_2437MHz

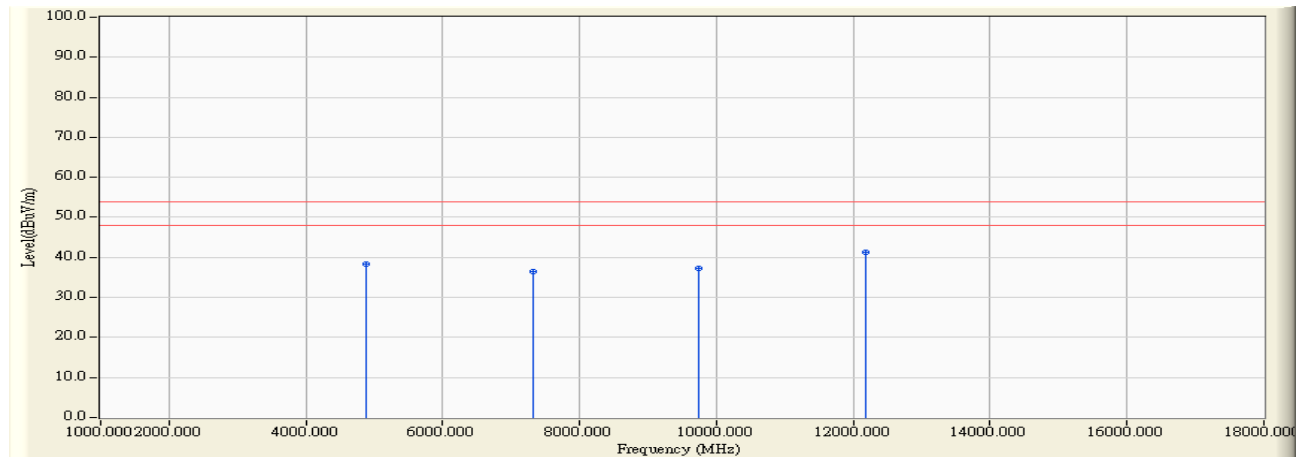


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	0.686	51.550	52.235	-21.765	74.000	PEAK
2		7311.000	9.193	40.870	50.063	-23.937	74.000	PEAK
3		9748.000	13.693	36.760	50.453	-23.547	74.000	PEAK
4	*	12185.000	17.952	37.220	55.172	-18.828	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/08/03
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 1: Tx_CDD Mode (802.11 b/g)_ 802.11g_2437MHz

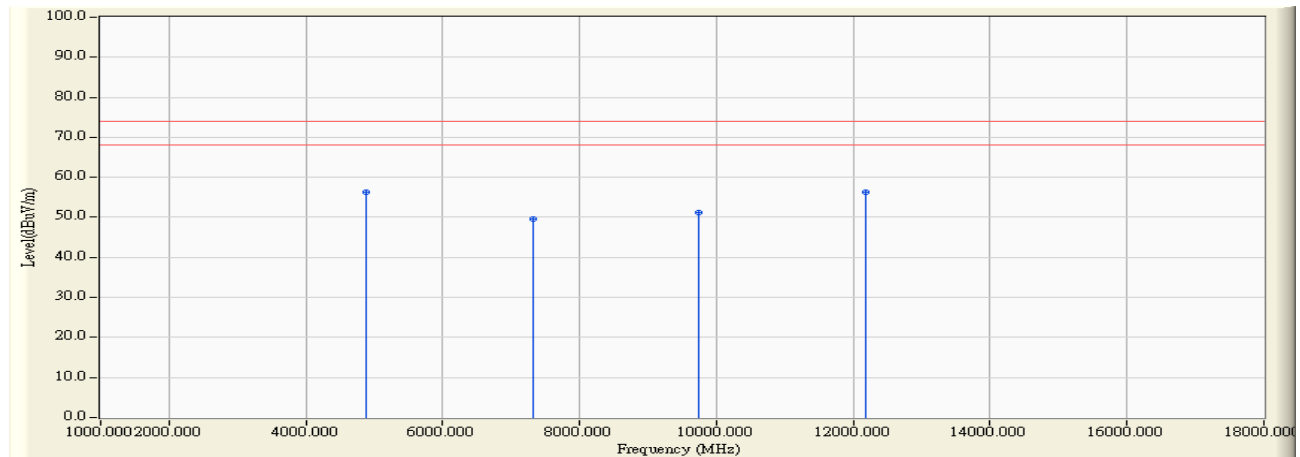


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	0.686	37.690	38.375	-15.625	54.000	AVERAGE
2		7311.000	9.193	27.220	36.413	-17.587	54.000	AVERAGE
3		9748.000	13.693	23.520	37.213	-16.787	54.000	AVERAGE
4	*	12185.000	17.952	23.410	41.362	-12.638	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/08/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 1: Tx_CDD Mode (802.11 b/g)_ 802.11g_2437MHz

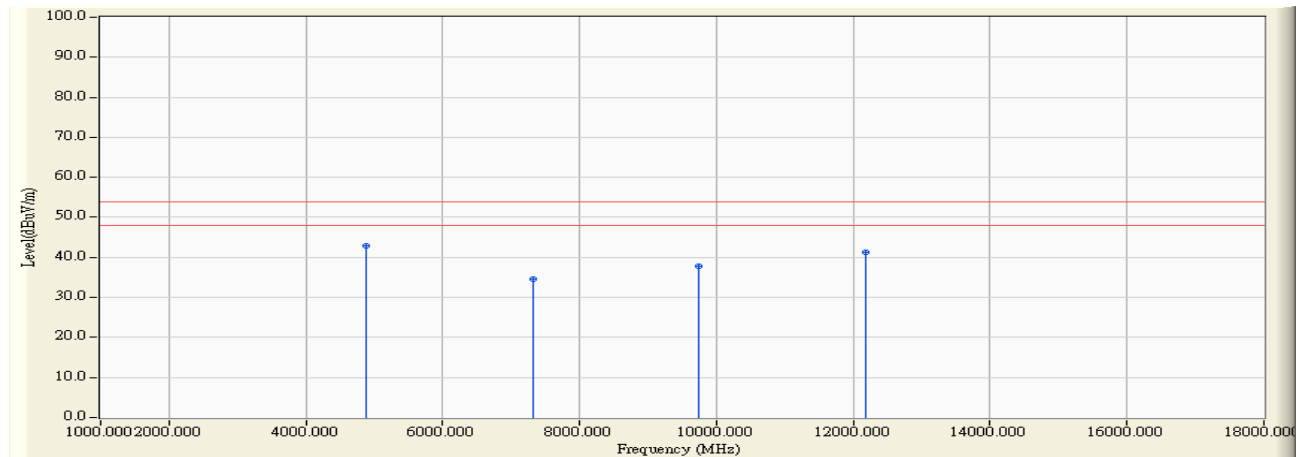


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4874.000	0.686	55.550	56.235	-17.765	74.000	PEAK
2		7311.000	9.193	40.350	49.543	-24.457	74.000	PEAK
3		9748.000	13.693	37.410	51.103	-22.897	74.000	PEAK
4		12185.000	17.952	38.220	56.172	-17.828	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/08/03
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 1: Tx_CDD Mode (802.11 b/g)_ 802.11g_2437MHz

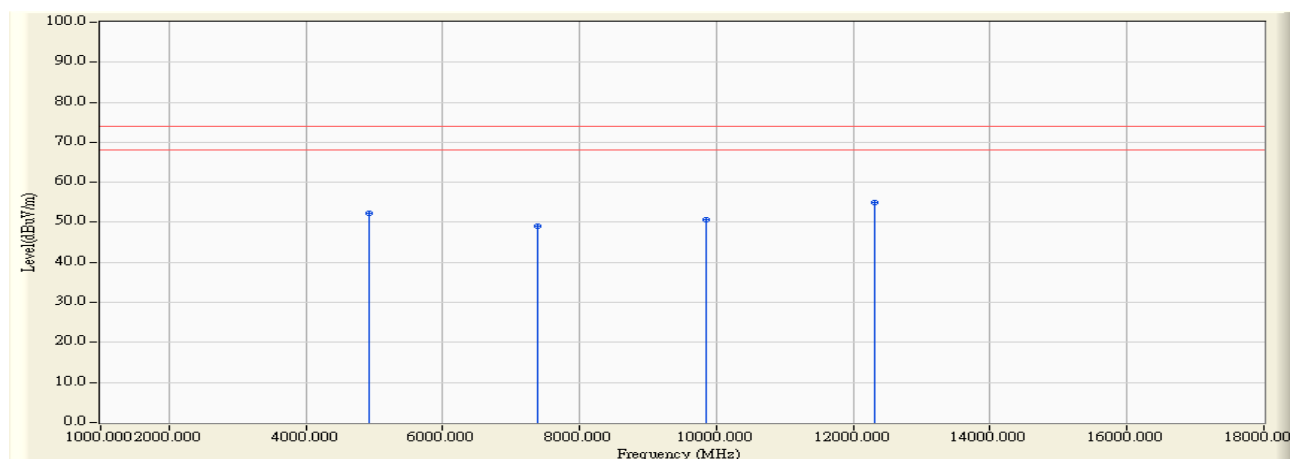


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4874.000	0.686	42.080	42.765	-11.235	54.000	AVERAGE
2		7311.000	9.193	25.390	34.583	-19.417	54.000	AVERAGE
3		9748.000	13.693	24.240	37.933	-16.067	54.000	AVERAGE
4		12185.000	17.952	23.390	41.342	-12.658	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/08/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 1: Tx_CDD Mode (802.11 b/g)_ 802.11g_2462MHz

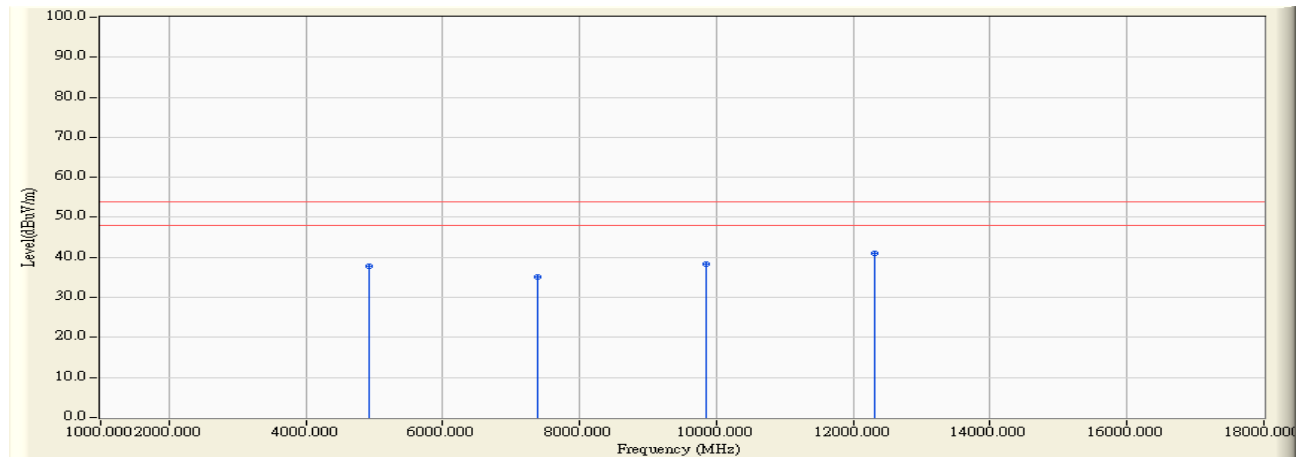


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	0.839	51.380	52.219	-21.781	74.000	PEAK
2		7386.000	9.513	39.500	49.013	-24.987	74.000	PEAK
3		9848.000	13.792	36.770	50.562	-23.438	74.000	PEAK
4	*	12310.000	17.720	37.220	54.939	-19.061	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/08/03
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 1: Tx_CDD Mode (802.11 b/g)_ 802.11g_2462MHz

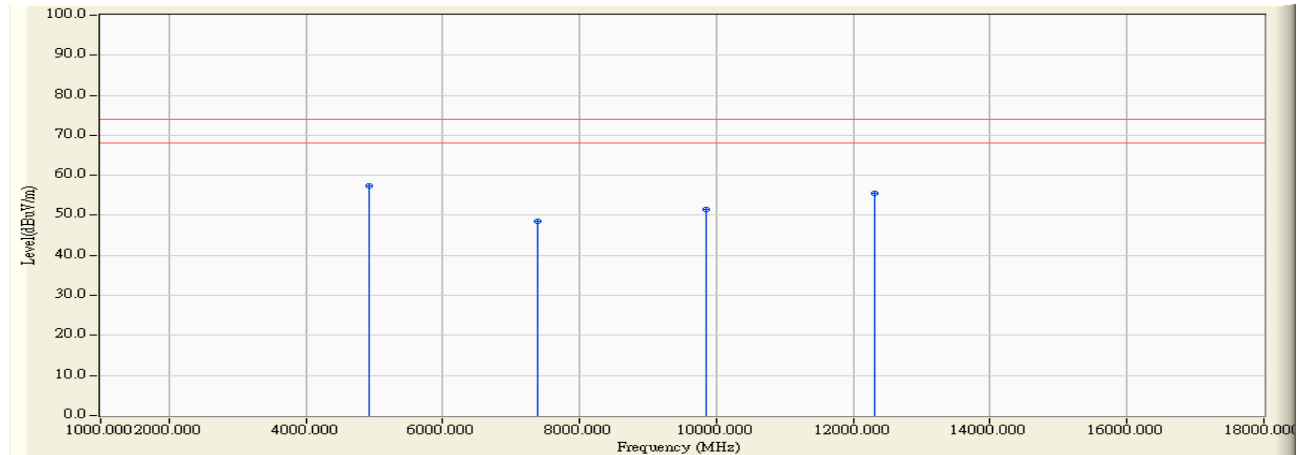


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	0.839	37.060	37.899	-16.101	54.000	AVERAGE
2		7386.000	9.513	25.500	35.013	-18.987	54.000	AVERAGE
3		9848.000	13.792	24.420	38.212	-15.788	54.000	AVERAGE
4	*	12310.000	17.720	23.350	41.069	-12.931	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/08/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 1: Tx_CDD Mode (802.11 b/g)_ 802.11g_2462MHz

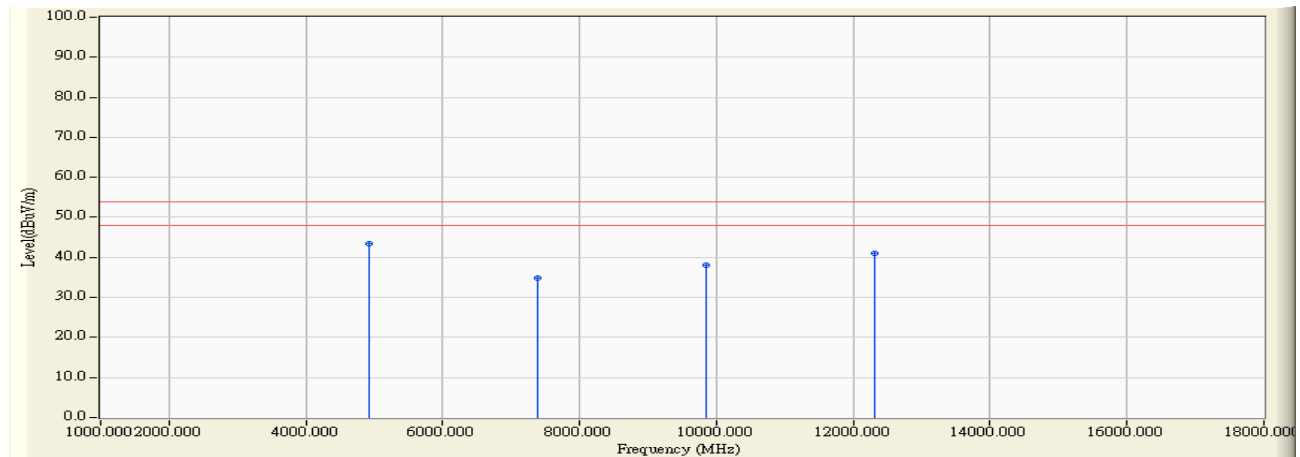


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4924.000	0.839	56.400	57.239	-16.761	74.000	PEAK
2		7386.000	9.513	39.040	48.553	-25.447	74.000	PEAK
3		9848.000	13.792	37.590	51.382	-22.618	74.000	PEAK
4		12310.000	17.720	37.750	55.469	-18.531	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/08/03
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 1: Tx_CDD Mode (802.11 b/g)_ 802.11g_2462MHz

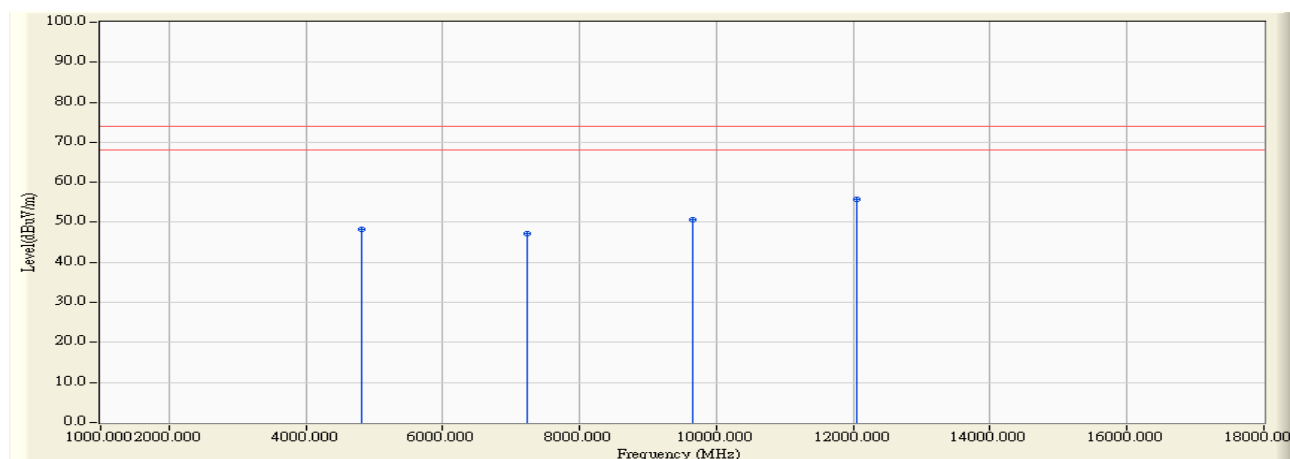


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4924.000	0.839	42.580	43.419	-10.581	54.000	AVERAGE
2		7386.000	9.513	25.450	34.963	-19.037	54.000	AVERAGE
3		9848.000	13.792	24.200	37.992	-16.008	54.000	AVERAGE
4		12310.000	17.720	23.320	41.039	-12.961	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/08/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 2: Tx_MIMO Mode (802.11 n20/n40)_ 802.11n(20M)_2412MHz

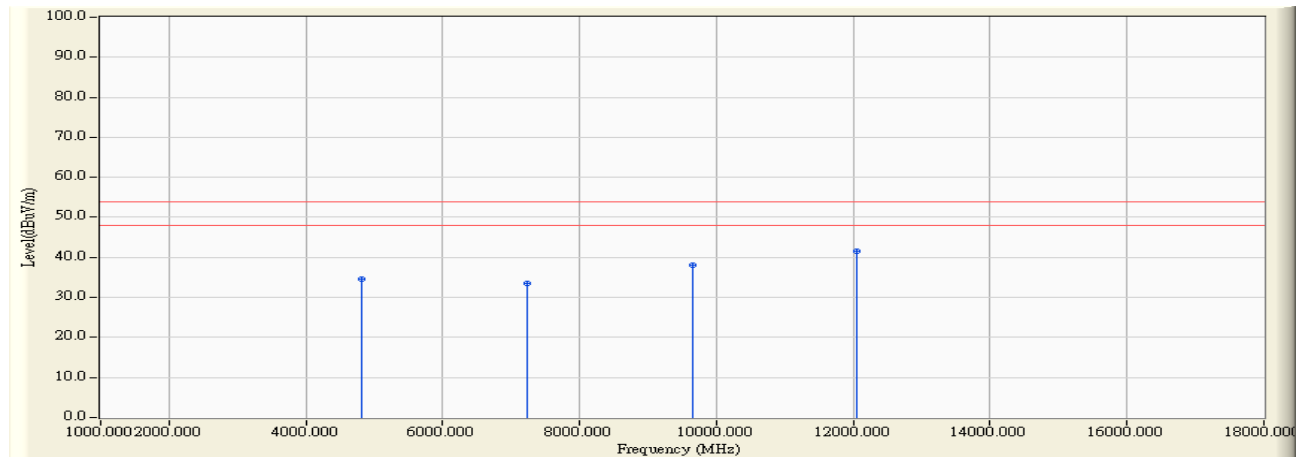


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	0.518	47.660	48.178	-25.822	74.000	PEAK
2		7236.000	8.857	38.370	47.228	-26.772	74.000	PEAK
3		9648.000	13.400	37.170	50.571	-23.429	74.000	PEAK
4	*	12060.000	18.167	37.540	55.706	-18.294	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/08/03
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 2: Tx_MIMO Mode (802.11 n20/n40)_ 802.11n(20M)_2412MHz

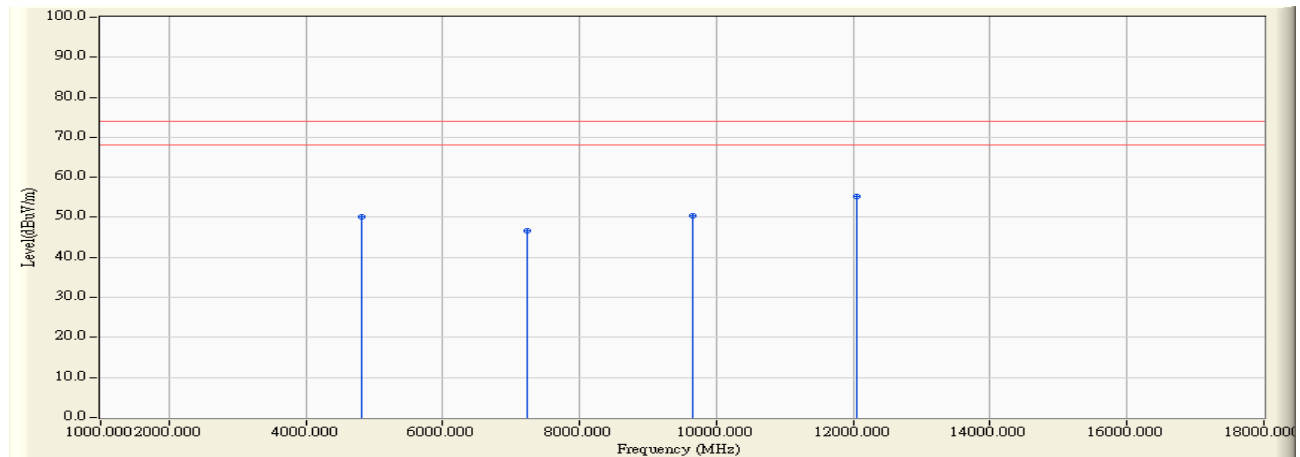


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	0.518	34.080	34.598	-19.402	54.000	AVERAGE
2		7236.000	8.857	24.590	33.448	-20.552	54.000	AVERAGE
3		9648.000	13.400	24.620	38.021	-15.979	54.000	AVERAGE
4	*	12060.000	18.167	23.470	41.636	-12.364	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/08/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 2: Tx_MIMO Mode (802.11 n20/n40)_ 802.11n(20M)_2412MHz

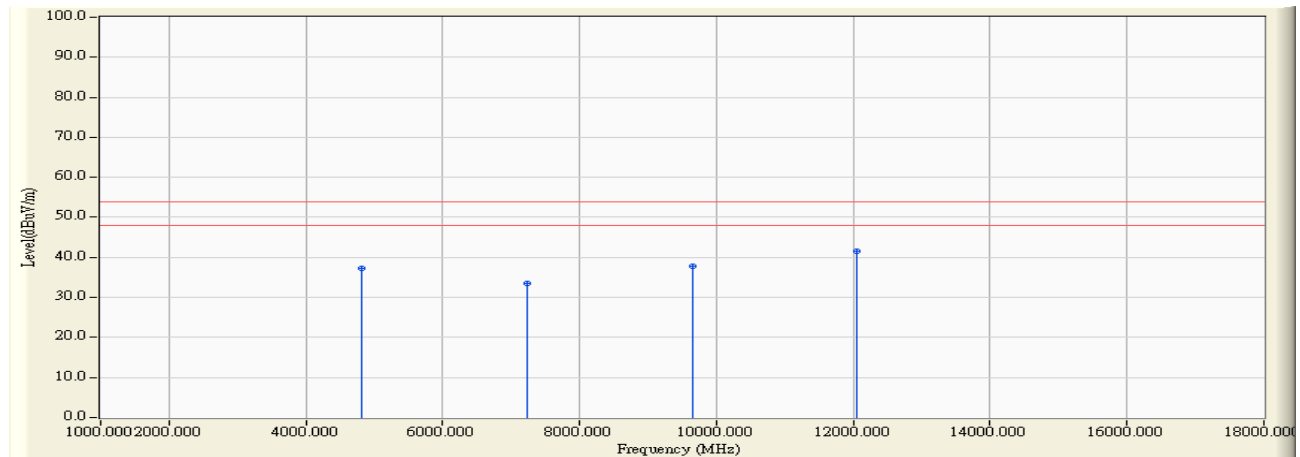


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	0.518	49.530	50.048	-23.952	74.000	PEAK
2		7236.000	8.857	37.720	46.578	-27.422	74.000	PEAK
3		9648.000	13.400	36.890	50.291	-23.709	74.000	PEAK
4	*	12060.000	18.167	37.080	55.246	-18.754	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/08/03
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 2: Tx_MIMO Mode (802.11 n20/n40)_ 802.11n(20M)_2412MHz

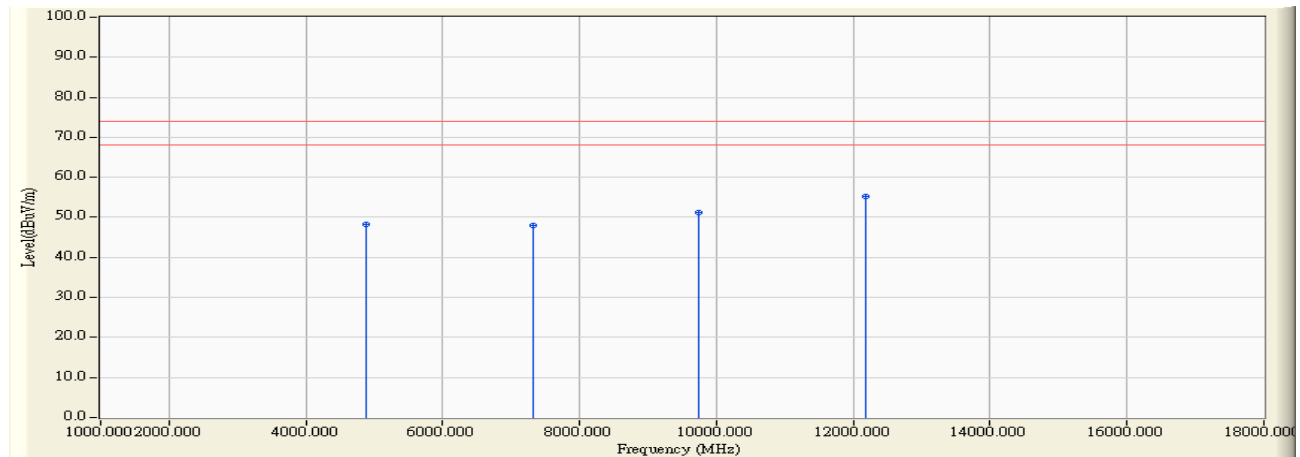


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	0.518	36.780	37.298	-16.702	54.000	AVERAGE
2		7236.000	8.857	24.560	33.418	-20.582	54.000	AVERAGE
3		9648.000	13.400	24.410	37.811	-16.189	54.000	AVERAGE
4	*	12060.000	18.167	23.310	41.476	-12.524	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/08/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 2: Tx_MIMO Mode (802.11 n20/n40)_ 802.11n(20M)_2437MHz

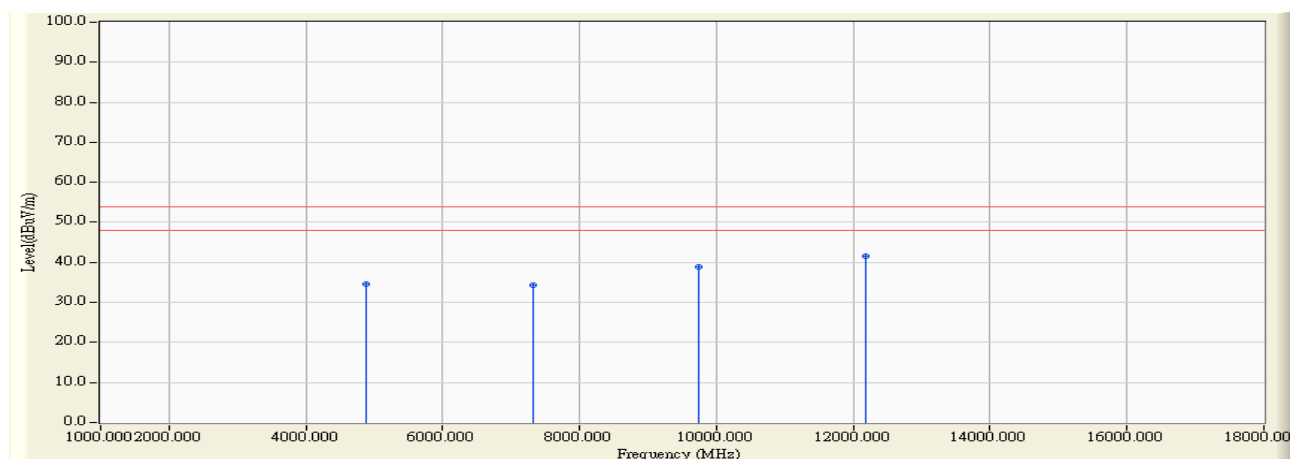


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	0.686	47.440	48.125	-25.875	74.000	PEAK
2		7311.000	9.193	38.800	47.993	-26.007	74.000	PEAK
3		9748.000	13.693	37.470	51.163	-22.837	74.000	PEAK
4	*	12185.000	17.952	37.370	55.322	-18.678	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/08/03
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 2: Tx_MIMO Mode (802.11 n20/n40)_ 802.11n(20M)_2437MHz

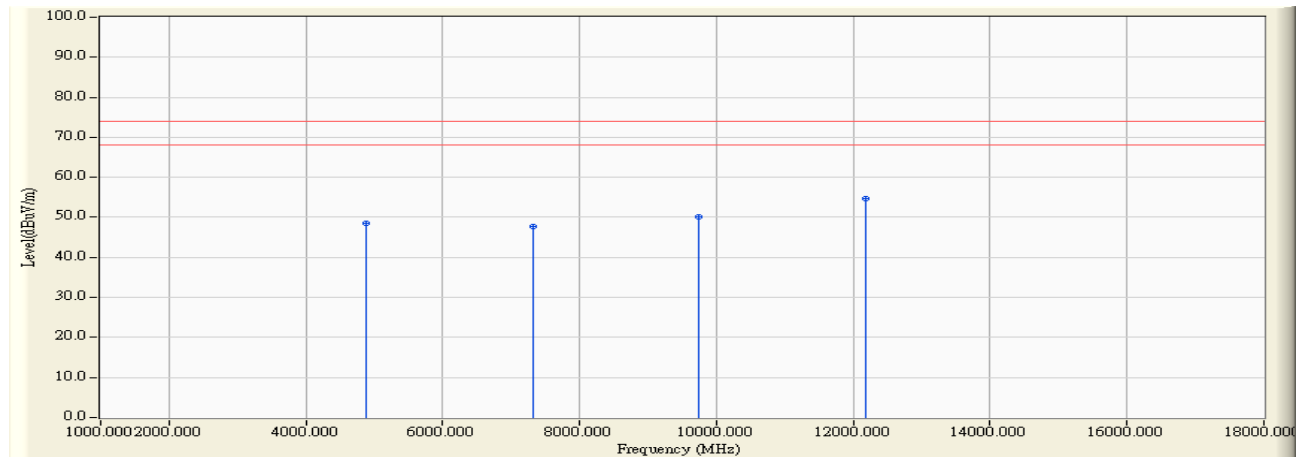


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	0.686	33.790	34.475	-19.525	54.000	AVERAGE
2		7311.000	9.193	25.080	34.273	-19.727	54.000	AVERAGE
3		9748.000	13.693	25.150	38.843	-15.157	54.000	AVERAGE
4	*	12185.000	17.952	23.510	41.462	-12.538	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/08/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 2: Tx_MIMO Mode (802.11 n20/n40)_ 802.11n(20M)_2437MHz

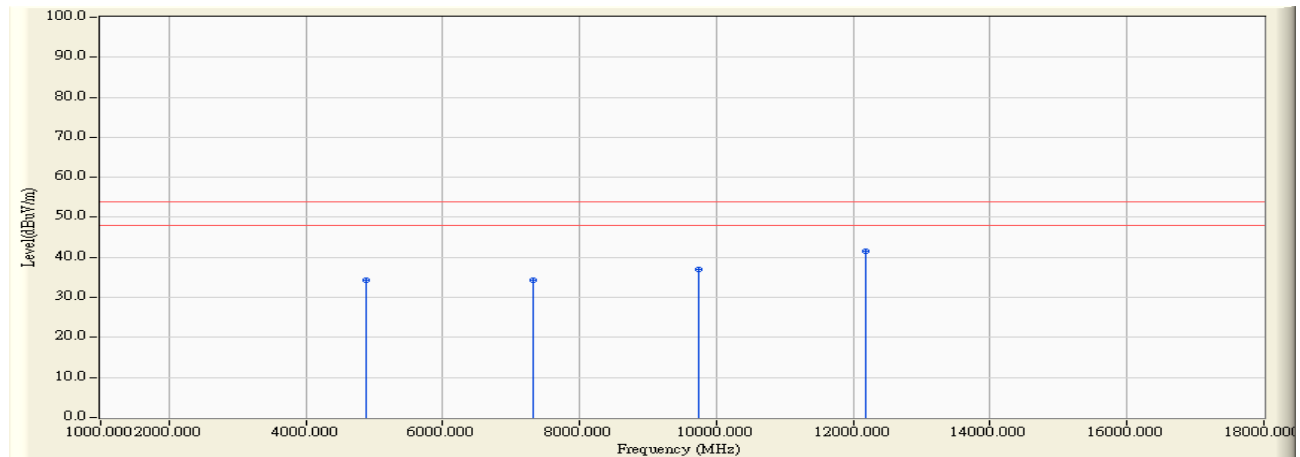


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	0.686	47.840	48.525	-25.475	74.000	PEAK
2		7311.000	9.193	38.610	47.803	-26.197	74.000	PEAK
3		9748.000	13.693	36.480	50.173	-23.827	74.000	PEAK
4	*	12185.000	17.952	36.770	54.722	-19.278	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/08/03
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 2: Tx_MIMO Mode (802.11 n20/n40)_ 802.11n(20M)_2437MHz

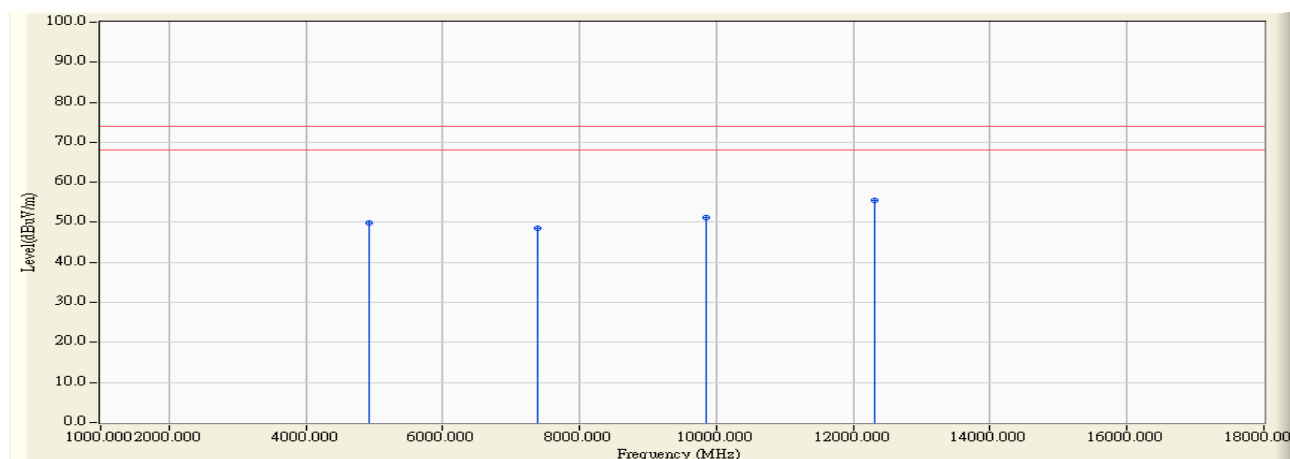


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	0.686	33.740	34.425	-19.575	54.000	AVERAGE
2		7311.000	9.193	25.080	34.273	-19.727	54.000	AVERAGE
3		9748.000	13.693	23.320	37.013	-16.987	54.000	AVERAGE
4	*	12185.000	17.952	23.590	41.542	-12.458	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/08/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 2: Tx_MIMO Mode (802.11 n20/n40)_ 802.11n(20M)_2462MHz

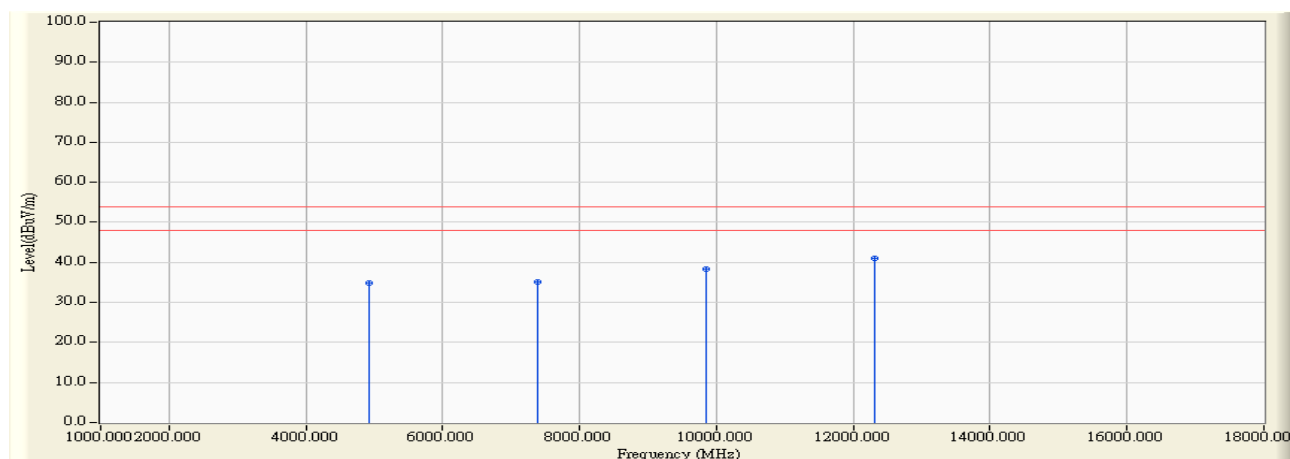


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	0.839	48.980	49.819	-24.181	74.000	PEAK
2		7386.000	9.513	38.960	48.473	-25.527	74.000	PEAK
3		9848.000	13.792	37.320	51.112	-22.888	74.000	PEAK
4	*	12310.000	17.720	37.670	55.389	-18.611	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/08/03
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 2: Tx_MIMO Mode (802.11 n20/n40)_ 802.11n(20M)_2462MHz

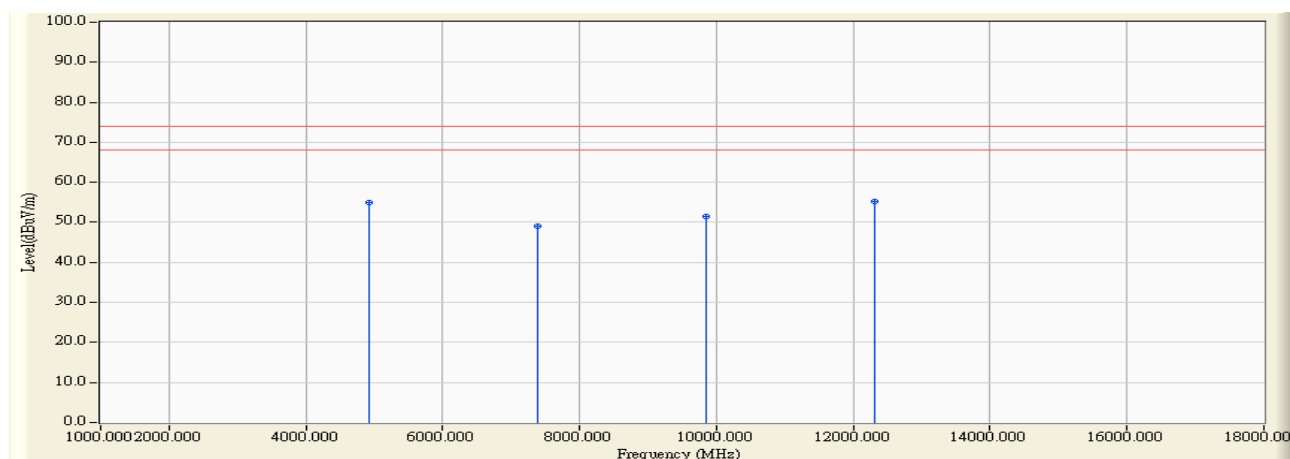


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	0.839	34.090	34.929	-19.071	54.000	AVERAGE
2		7386.000	9.513	25.550	35.063	-18.937	54.000	AVERAGE
3		9848.000	13.792	24.490	38.282	-15.718	54.000	AVERAGE
4	*	12310.000	17.720	23.340	41.059	-12.941	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/08/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 2: Tx_MIMO Mode (802.11 n20/n40)_ 802.11n(20M)_2462MHz

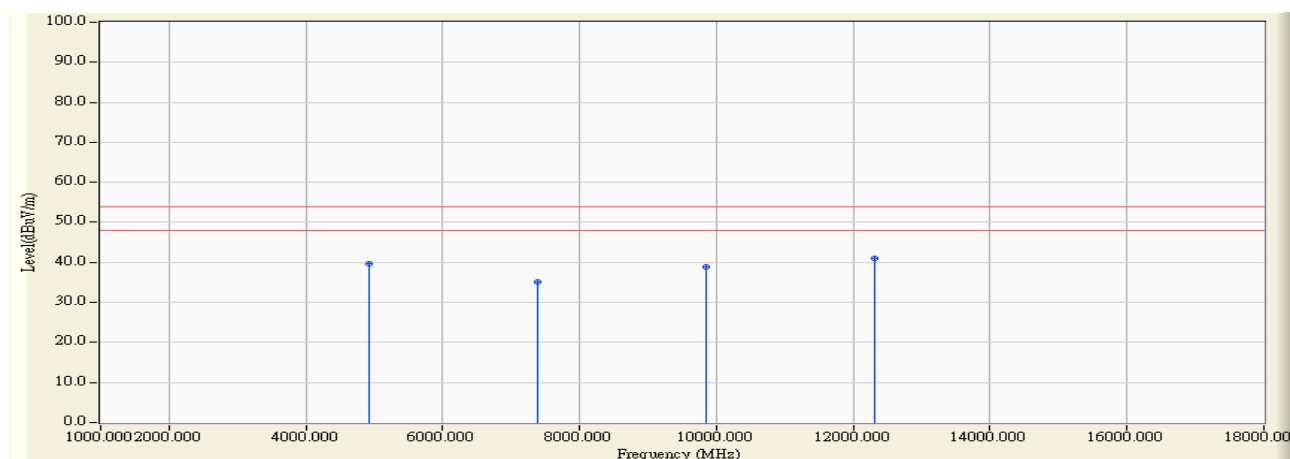


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	0.839	54.120	54.959	-19.041	74.000	PEAK
2		7386.000	9.513	39.530	49.043	-24.957	74.000	PEAK
3		9848.000	13.792	37.670	51.462	-22.538	74.000	PEAK
4	*	12310.000	17.720	37.590	55.309	-18.691	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/08/03
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 2: Tx_MIMO Mode (802.11 n20/n40)_ 802.11n(20M)_2462MHz

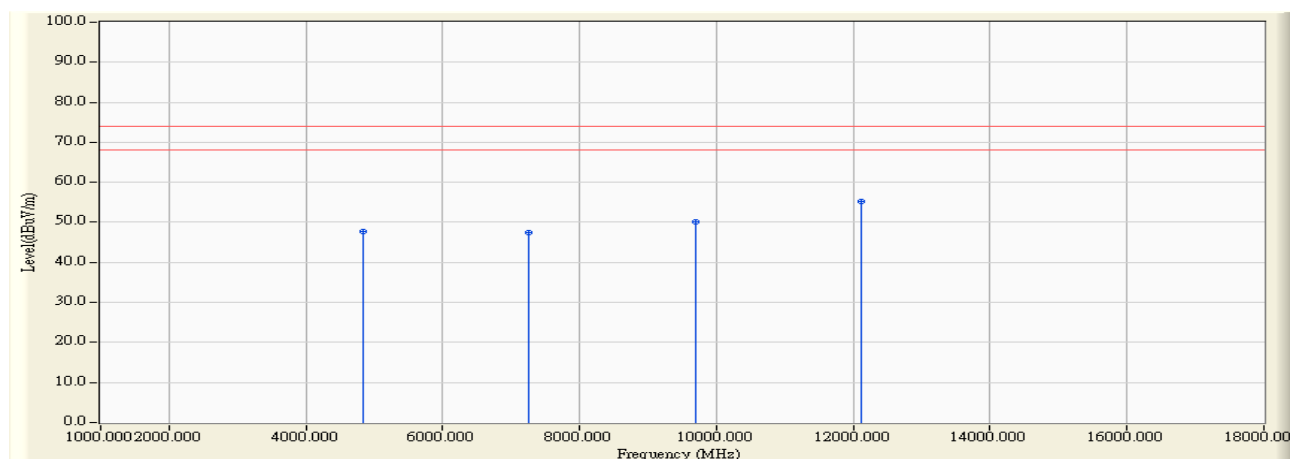


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	0.839	38.940	39.779	-14.221	54.000	AVERAGE
2		7386.000	9.513	25.550	35.063	-18.937	54.000	AVERAGE
3		9848.000	13.792	25.100	38.892	-15.108	54.000	AVERAGE
4	*	12310.000	17.720	23.340	41.059	-12.941	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/08/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 2: Tx_MIMO Mode (802.11 n20/n40)_ 802.11n(40M)_2422MHz

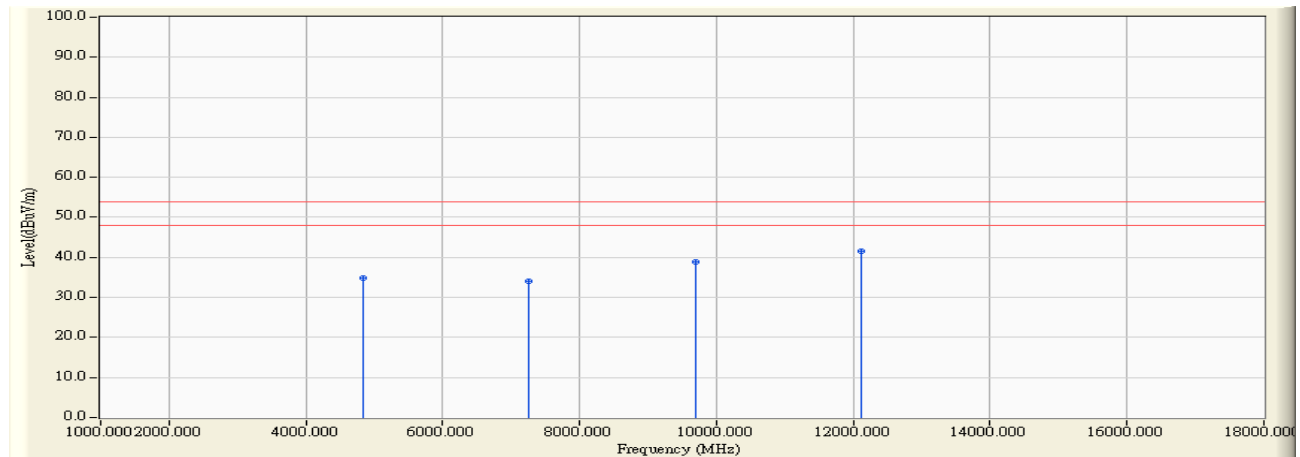


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4844.000	0.613	47.110	47.723	-26.277	74.000	PEAK
2		7266.000	9.112	38.460	47.572	-26.428	74.000	PEAK
3		9688.000	13.607	36.500	50.107	-23.893	74.000	PEAK
4	*	12110.000	18.081	37.240	55.321	-18.679	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/08/03
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 2: Tx_MIMO Mode (802.11 n20/n40)_ 802.11n(40M)_2422MHz

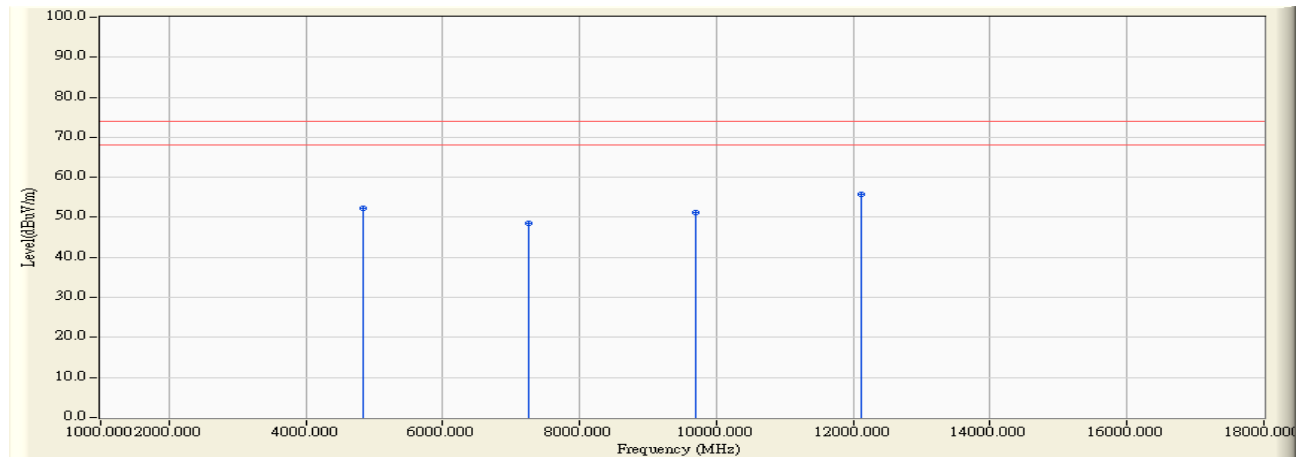


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4844.000	0.613	34.160	34.773	-19.227	54.000	AVERAGE
2		7266.000	9.112	24.890	34.002	-19.998	54.000	AVERAGE
3		9688.000	13.607	25.240	38.847	-15.153	54.000	AVERAGE
4	*	12110.000	18.081	23.360	41.441	-12.559	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/08/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 2: Tx_MIMO Mode (802.11 n20/n40)_ 802.11n(40M)_2422MHz

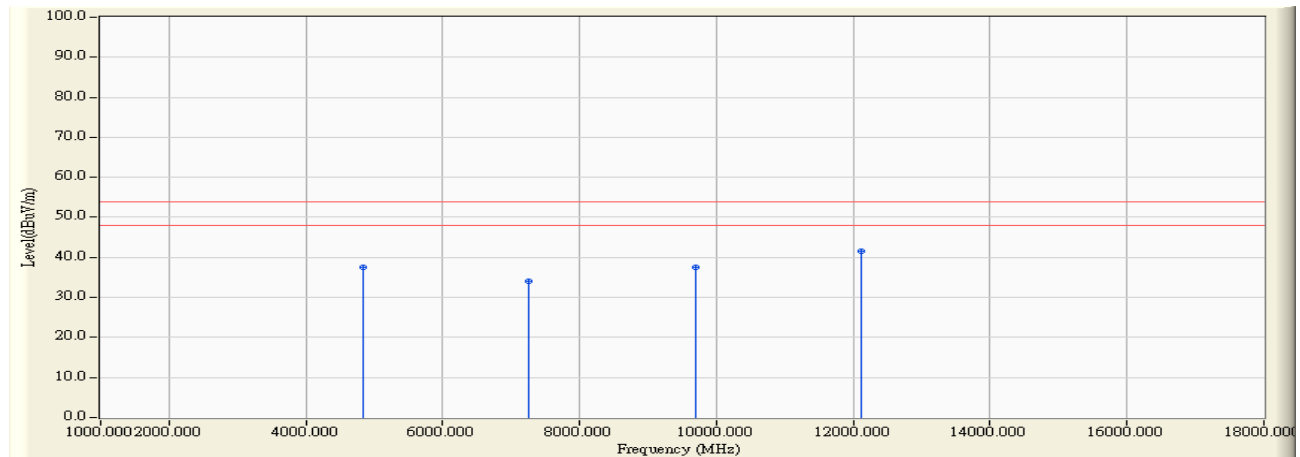


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4844.000	0.613	51.700	52.313	-21.687	74.000	PEAK
2		7266.000	9.112	39.490	48.602	-25.398	74.000	PEAK
3		9688.000	13.607	37.650	51.257	-22.743	74.000	PEAK
4	*	12110.000	18.081	37.670	55.751	-18.249	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/08/03
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 2: Tx_MIMO Mode (802.11 n20/n40)_ 802.11n(40M)_2422MHz

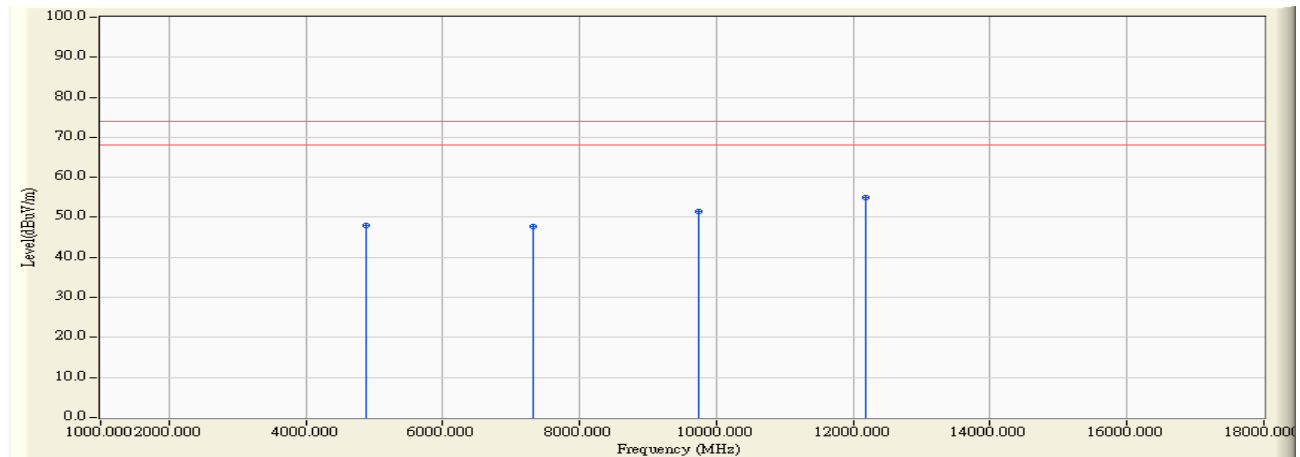


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4844.000	0.613	37.040	37.653	-16.347	54.000	AVERAGE
2		7266.000	9.112	24.960	34.072	-19.928	54.000	AVERAGE
3		9688.000	13.607	24.040	37.647	-16.353	54.000	AVERAGE
4	*	12110.000	18.081	23.420	41.501	-12.499	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/08/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 2: Tx_MIMO Mode (802.11 n20/n40)_ 802.11n(40M)_2437MHz

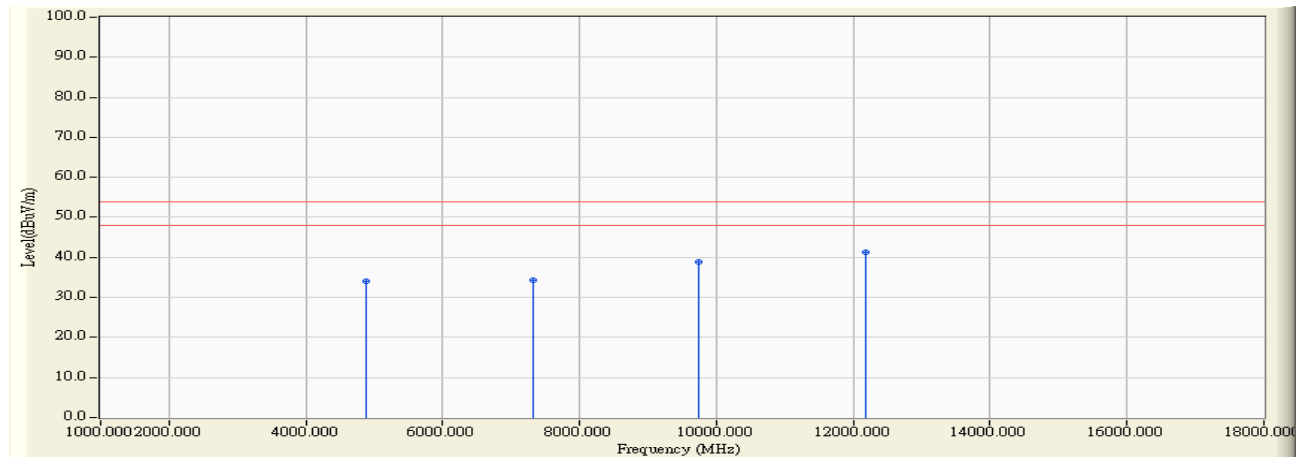


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	0.686	47.240	47.925	-26.075	74.000	PEAK
2		7311.000	9.193	38.460	47.653	-26.347	74.000	PEAK
3		9748.000	13.693	37.760	51.453	-22.547	74.000	PEAK
4	*	12185.000	17.952	37.030	54.982	-19.018	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/08/03
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 2: Tx_MIMO Mode (802.11 n20/n40)_ 802.11n(40M)_2437MHz

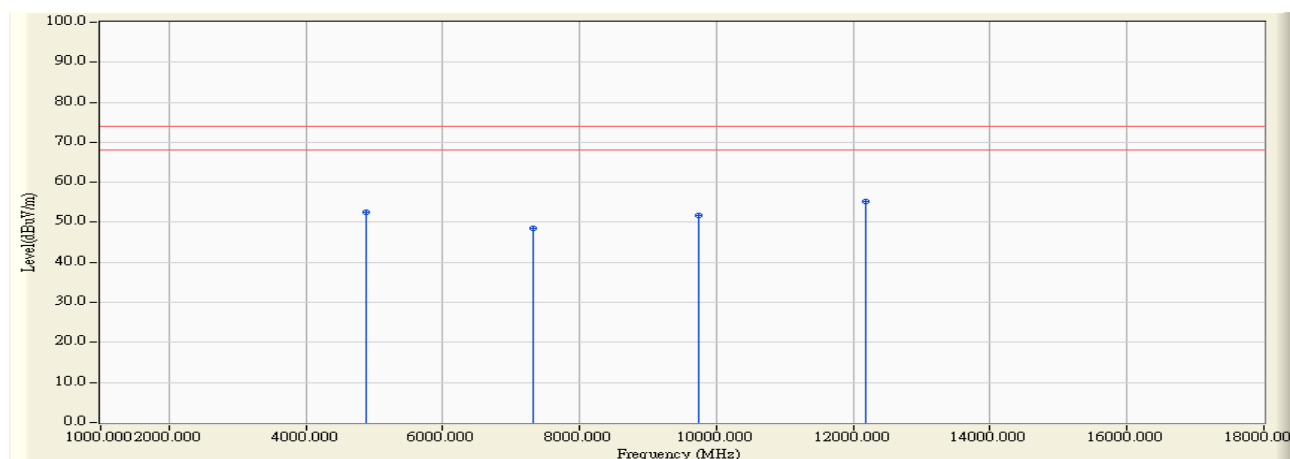


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	0.686	33.290	33.975	-20.025	54.000	AVERAGE
2		7311.000	9.193	25.070	34.263	-19.737	54.000	AVERAGE
3		9748.000	13.693	25.130	38.823	-15.177	54.000	AVERAGE
4	*	12185.000	17.952	23.350	41.302	-12.698	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/08/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 2: Tx_MIMO Mode (802.11 n20/n40)_ 802.11n(40M)_2437MHz

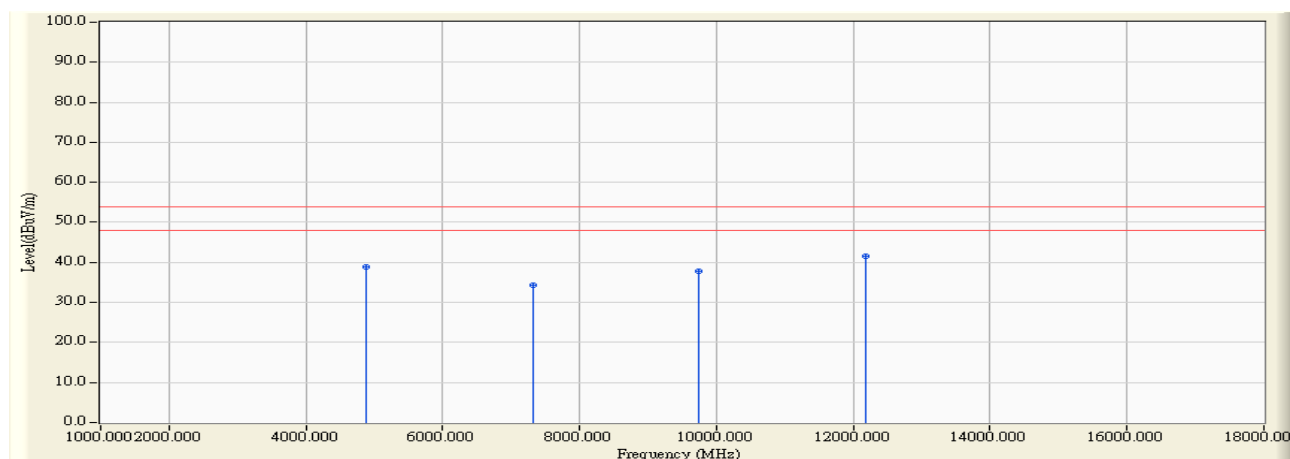


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	0.686	51.830	52.515	-21.485	74.000	PEAK
2		7311.000	9.193	39.370	48.563	-25.437	74.000	PEAK
3		9748.000	13.693	38.060	51.753	-22.247	74.000	PEAK
4	*	12185.000	17.952	37.250	55.202	-18.798	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/08/03
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 2: Tx_MIMO Mode (802.11 n20/n40)_ 802.11n(40M)_2437MHz

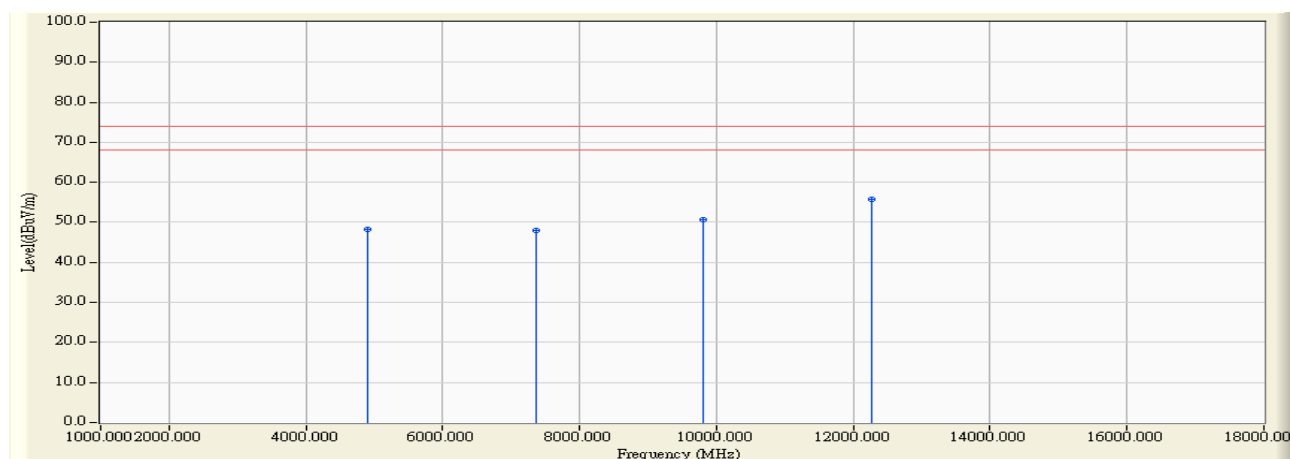


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	0.686	38.160	38.845	-15.155	54.000	AVERAGE
2		7311.000	9.193	25.040	34.233	-19.767	54.000	AVERAGE
3		9748.000	13.693	24.040	37.733	-16.267	54.000	AVERAGE
4	*	12185.000	17.952	23.560	41.512	-12.488	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/08/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 2: Tx_MIMO Mode (802.11 n20/n40)_ 802.11n(40M)_2452MHz

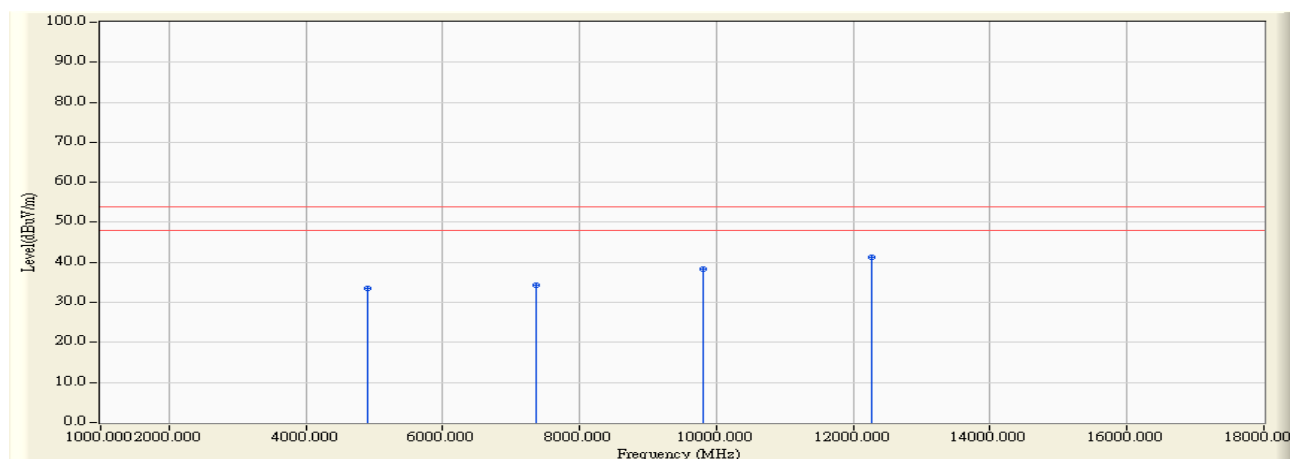


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4904.000	0.781	47.580	48.361	-25.639	74.000	PEAK
2		7356.000	9.385	38.650	48.035	-25.965	74.000	PEAK
3		9808.000	13.752	37.050	50.802	-23.198	74.000	PEAK
4	*	12260.000	17.821	37.840	55.661	-18.339	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/08/03
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 2: Tx_MIMO Mode (802.11 n20/n40)_ 802.11n(40M)_2452MHz

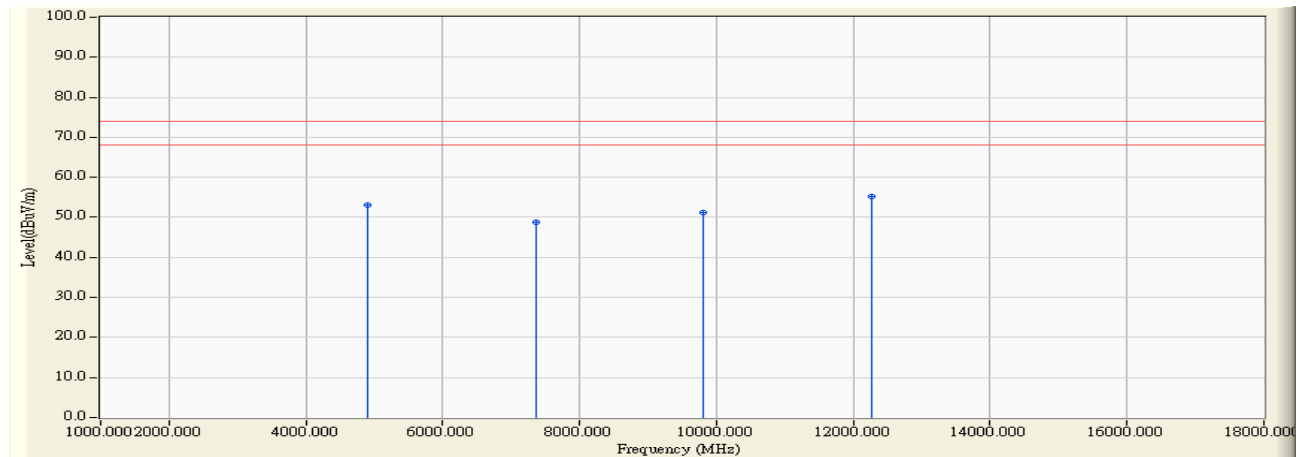


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4904.000	0.781	32.850	33.631	-20.369	54.000	AVERAGE
2		7356.000	9.385	25.050	34.435	-19.565	54.000	AVERAGE
3		9808.000	13.752	24.600	38.352	-15.648	54.000	AVERAGE
4	*	12260.000	17.821	23.440	41.261	-12.739	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/08/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 2: Tx_MIMO Mode (802.11 n20/n40)_ 802.11n(40M)_2452MHz

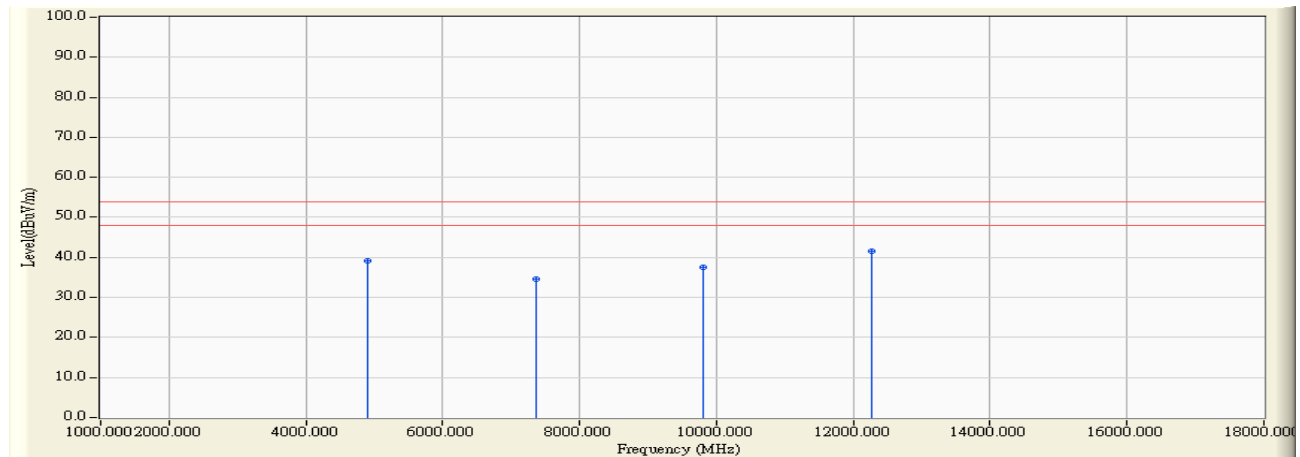


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4904.000	0.781	52.350	53.131	-20.869	74.000	PEAK
2		7356.000	9.385	39.520	48.905	-25.095	74.000	PEAK
3		9808.000	13.752	37.560	51.312	-22.688	74.000	PEAK
4	*	12260.000	17.821	37.350	55.171	-18.829	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/08/03
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 2: Tx_MIMO Mode (802.11 n20/n40)_ 802.11n(40M)_2452MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4904.000	0.781	38.280	39.061	-14.939	54.000	AVERAGE
2		7356.000	9.385	25.240	34.625	-19.375	54.000	AVERAGE
3		9808.000	13.752	23.860	37.612	-16.388	54.000	AVERAGE
4	*	12260.000	17.821	23.740	41.561	-12.439	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

5. RF antenna conducted test

5.1. Test Equipment

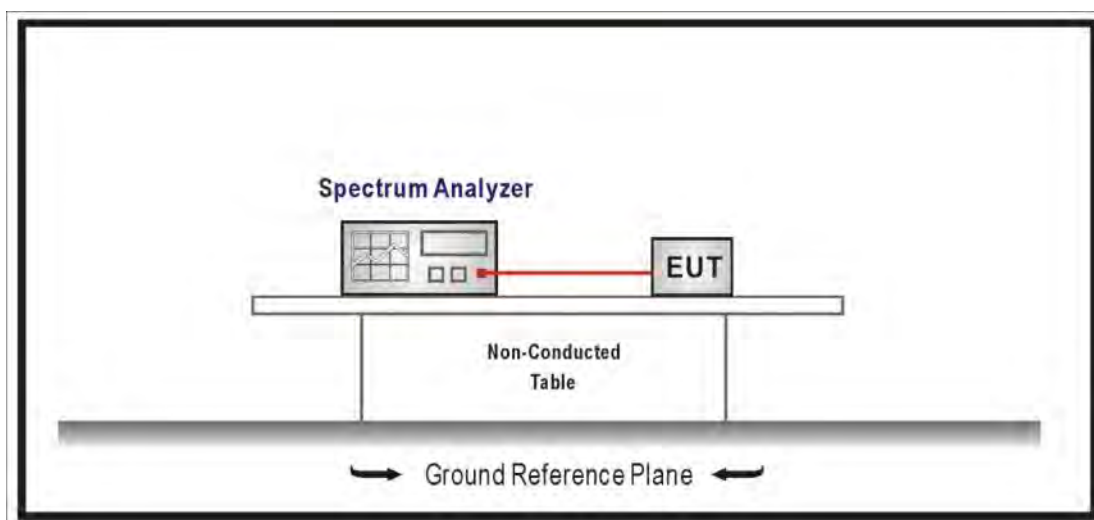
The following test equipments are used during the test:

RF antenna conducted test / SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal & Spectrum Analyzer	R&S	FSV40	101049	2017/01/23	2018/01/22
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2017/03/13	2018/03/12

5.2. Test Setup

RF Antenna Conducted Measurement:



5.3. Limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on an RF conducted or radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

5.4. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to DTS test procedure section 11.2 of KDB558074 D01 V04 for compliance to FCC 47CFR 15.247 requirements. Set RBW = 100 kHz, Set VBW> RBW, scan up through 10th harmonic.

5.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2015

5.6. Uncertainty

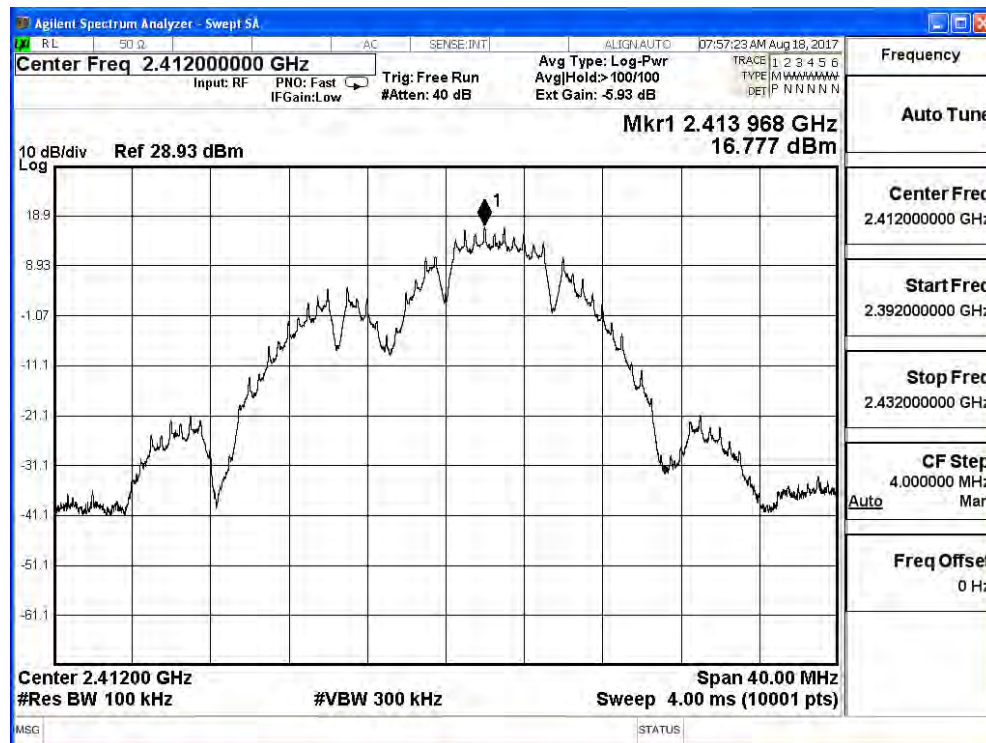
Conducted is defined as $\pm 1.27\text{dB}$

5.7. Test Result

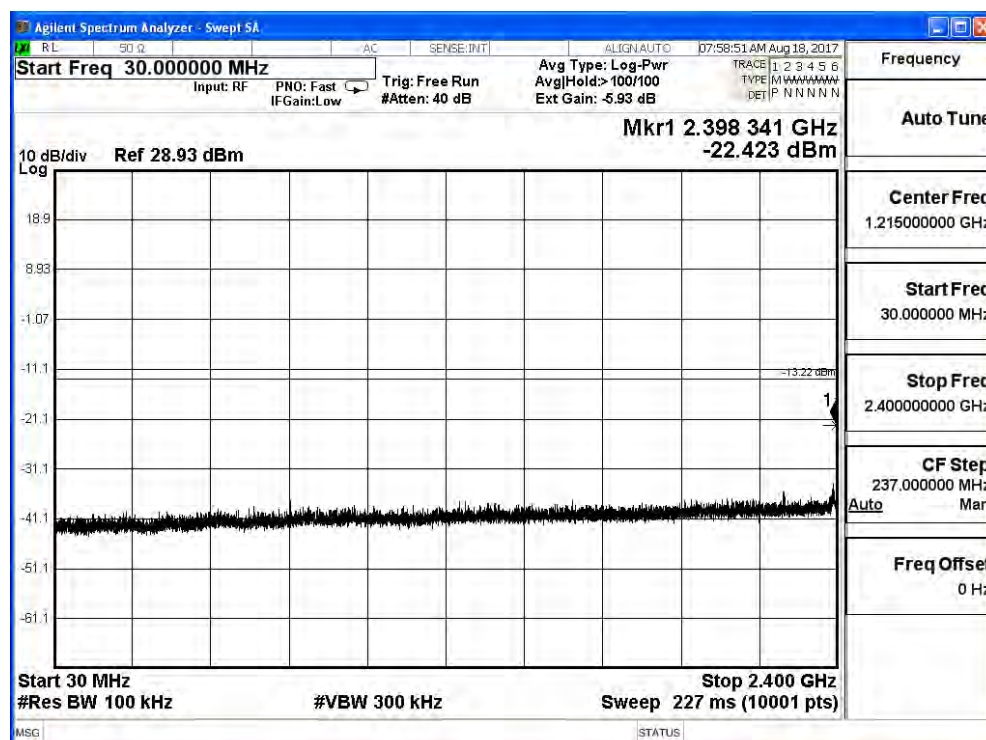
Product	Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Tx_CDD Mode (802.11 b/g)		
Date of Test	2017/08/18	Test Site	SR10-H

802.11b

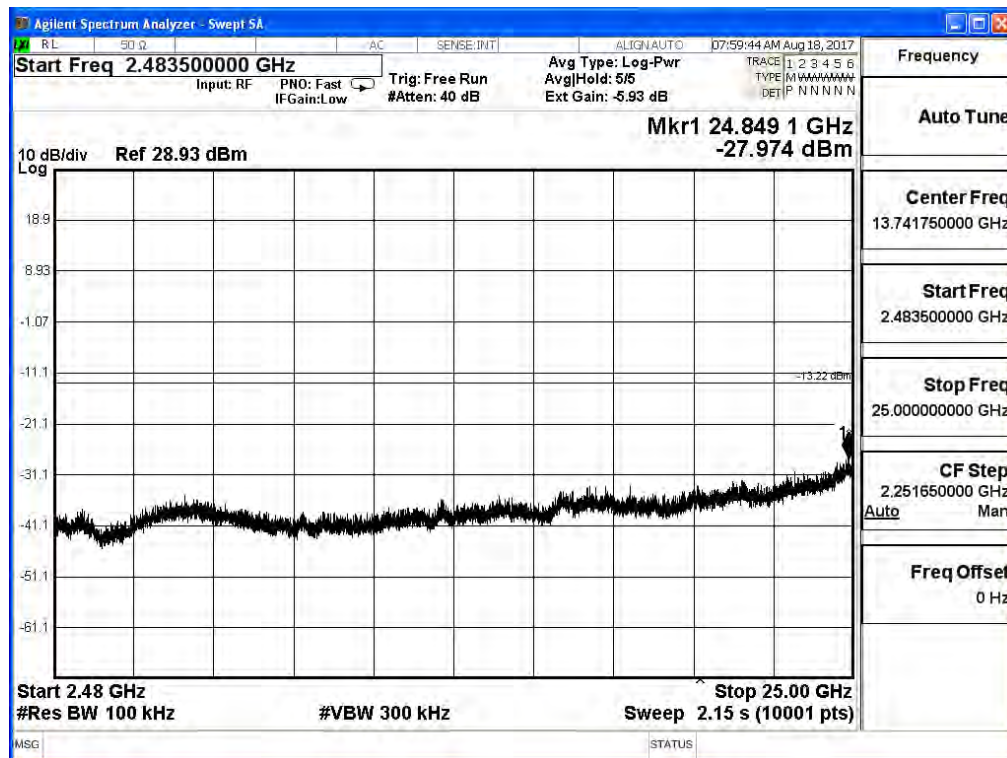
2412MHz



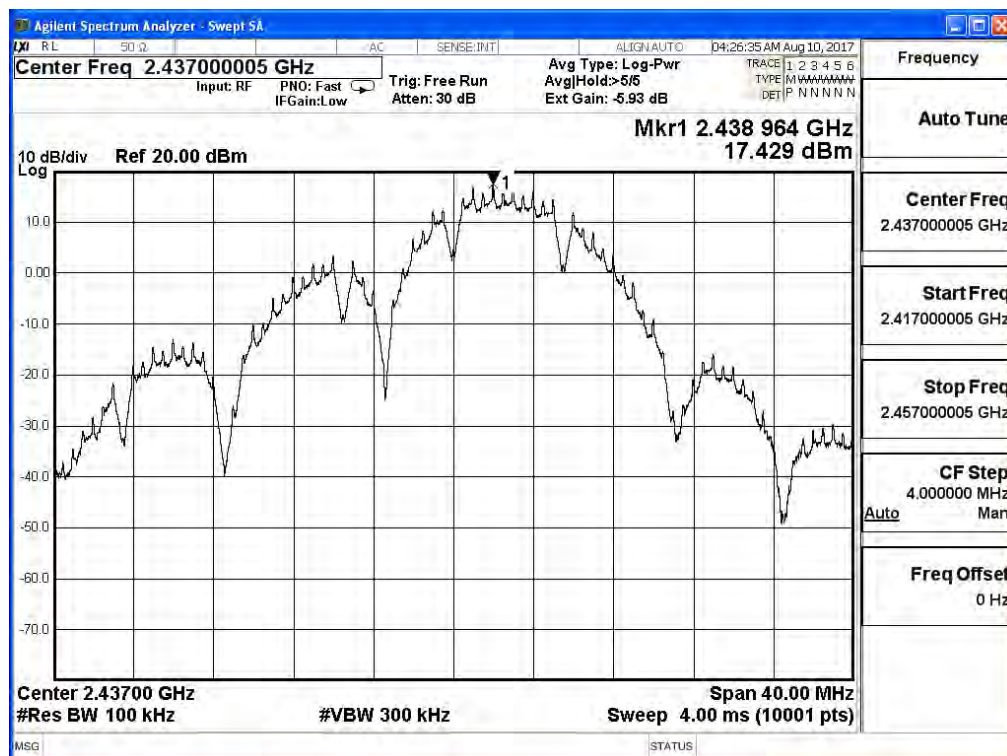
2412MHz (30MHz-24GHz)



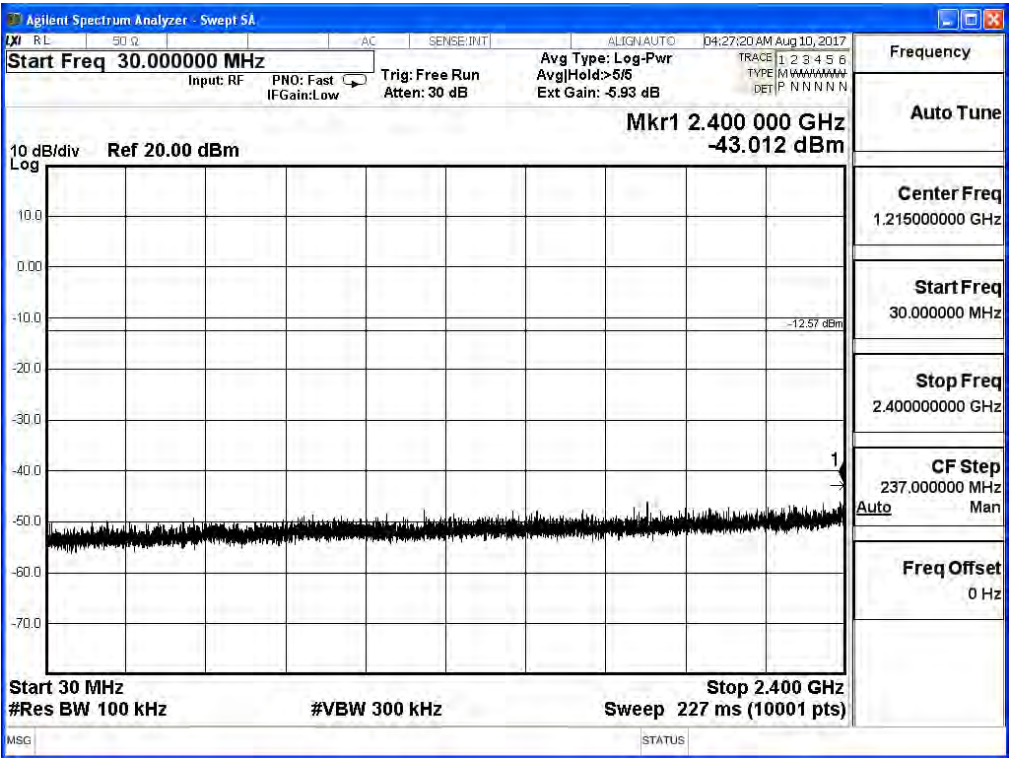
2412MHz (24.835GHz-25GHz)



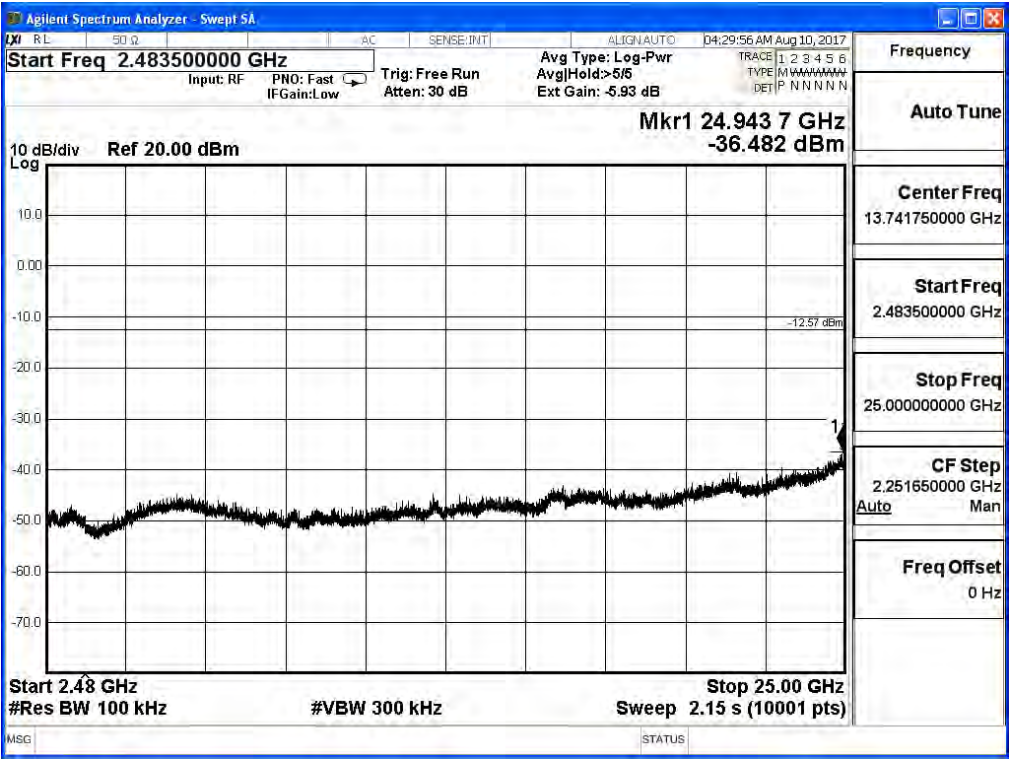
2437MHz



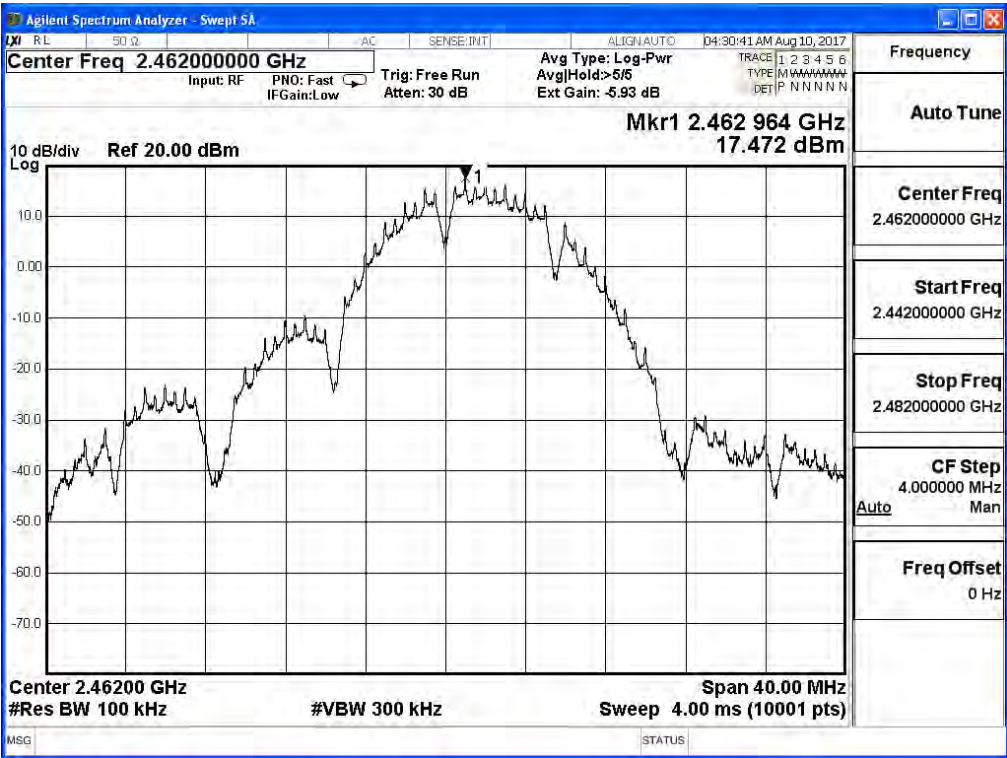
2437MHz (30MHz-24GHz)



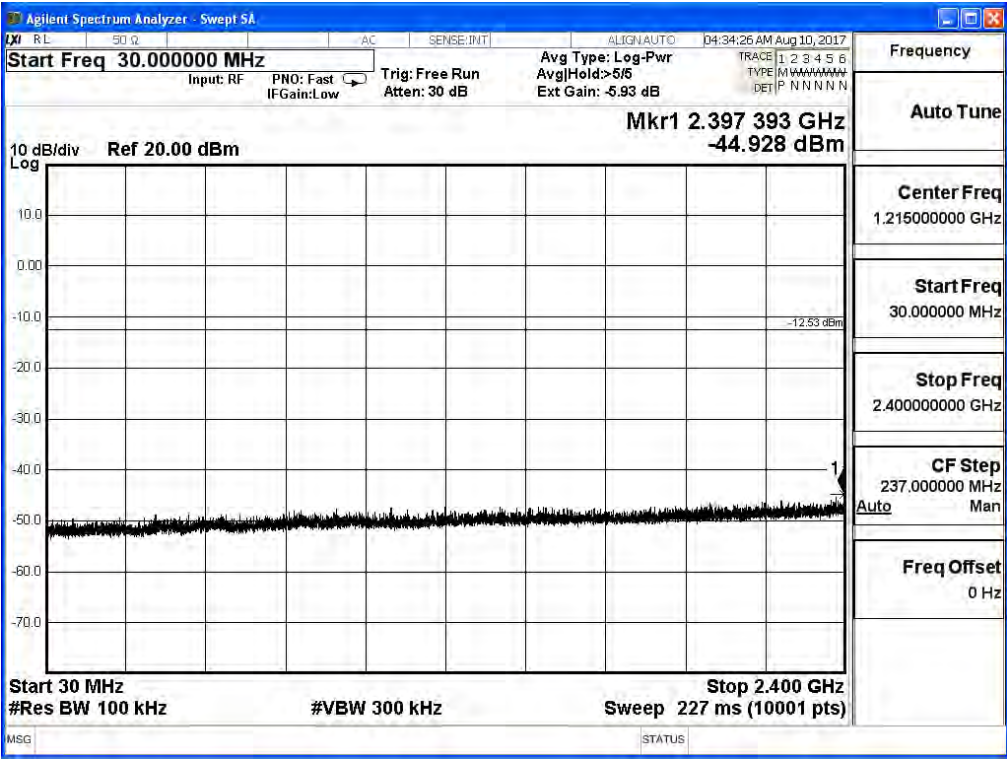
2437MHz (24.835GHz-25GHz)



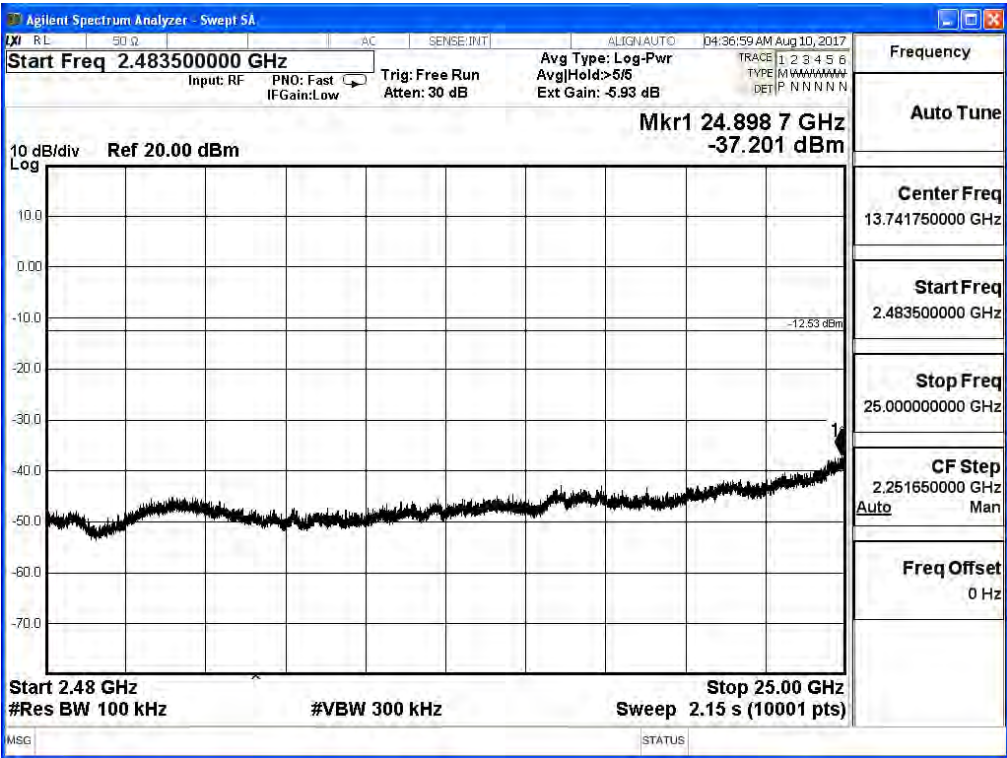
2462MHz



2462MHz (30MHz-24GHz)



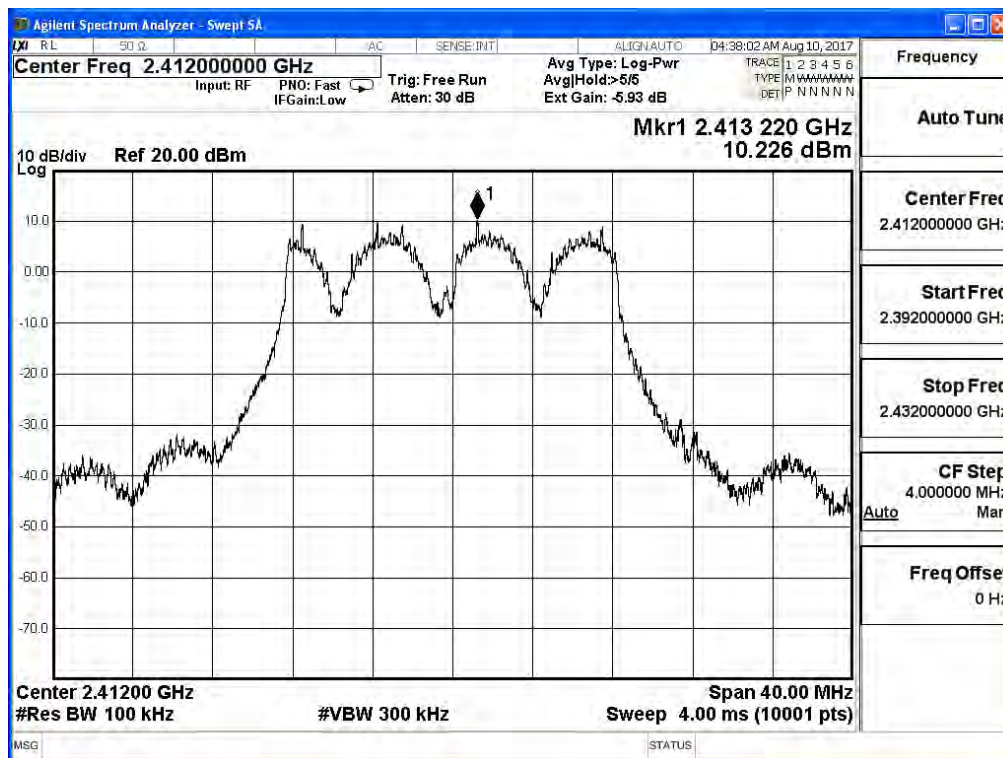
2462MHz (24.835GHz-25GHz)



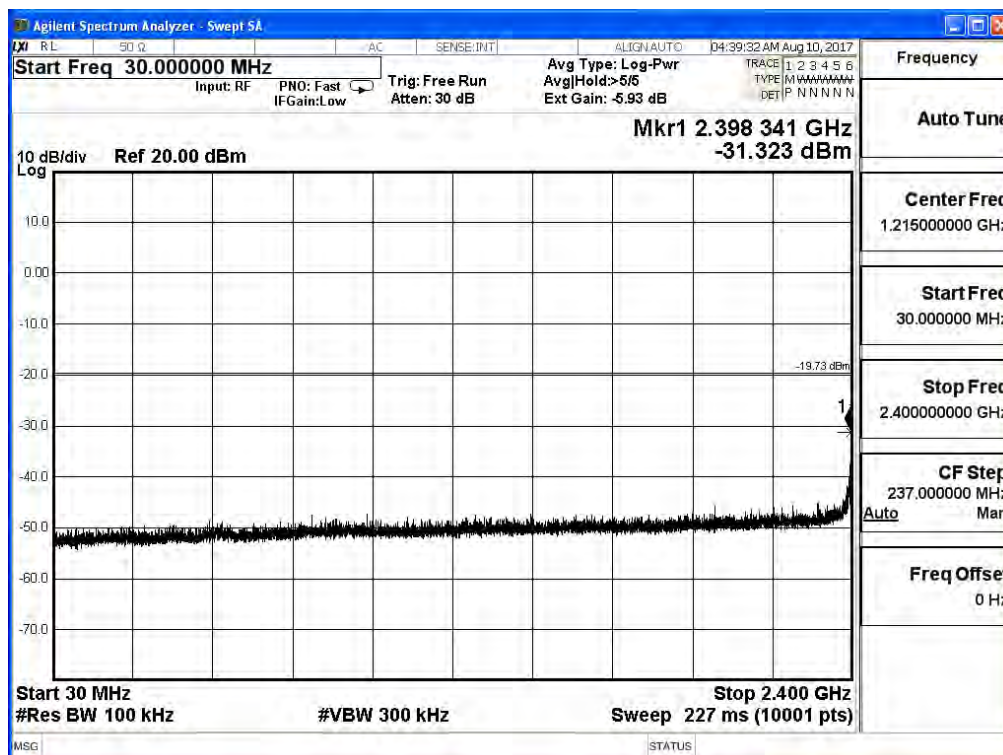
Product	Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Tx_CDD Mode (802.11 b/g)		
Date of Test	2017/08/18	Test Site	SR10-H

802.11g

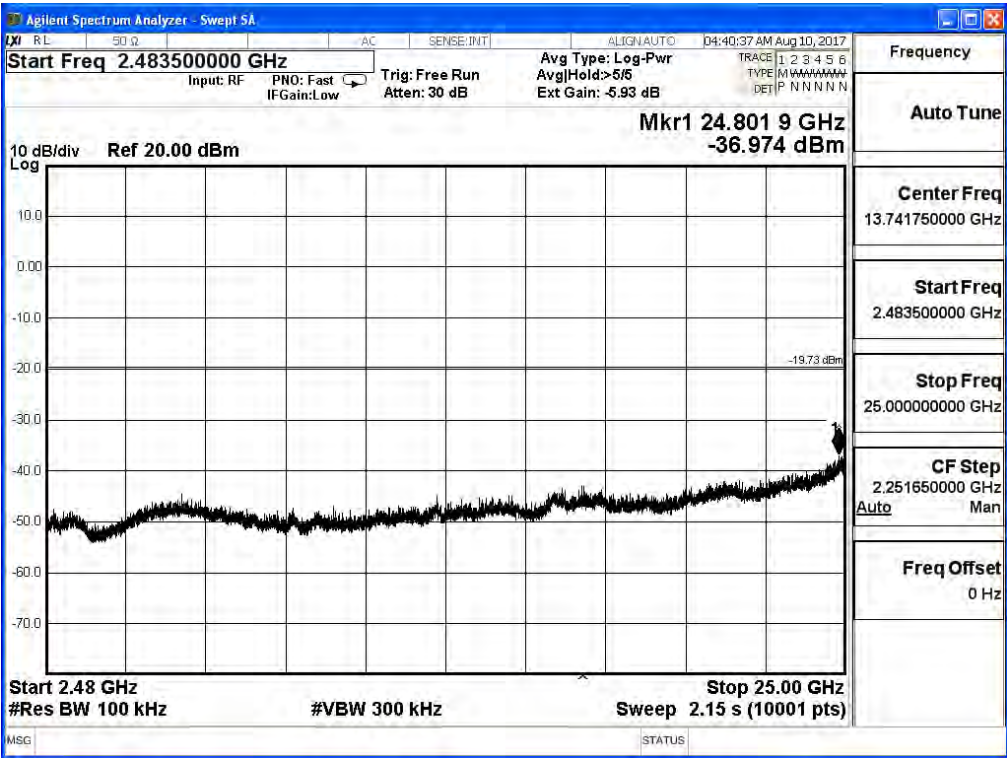
2412MHz



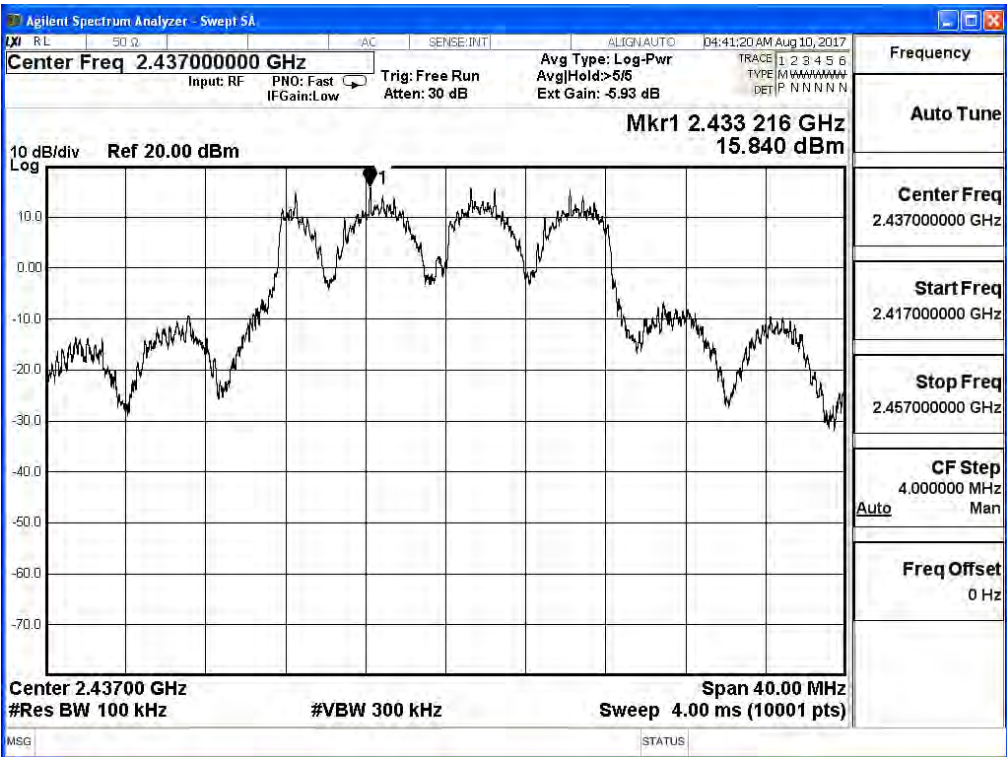
2412MHz (30MHz-24GHz)



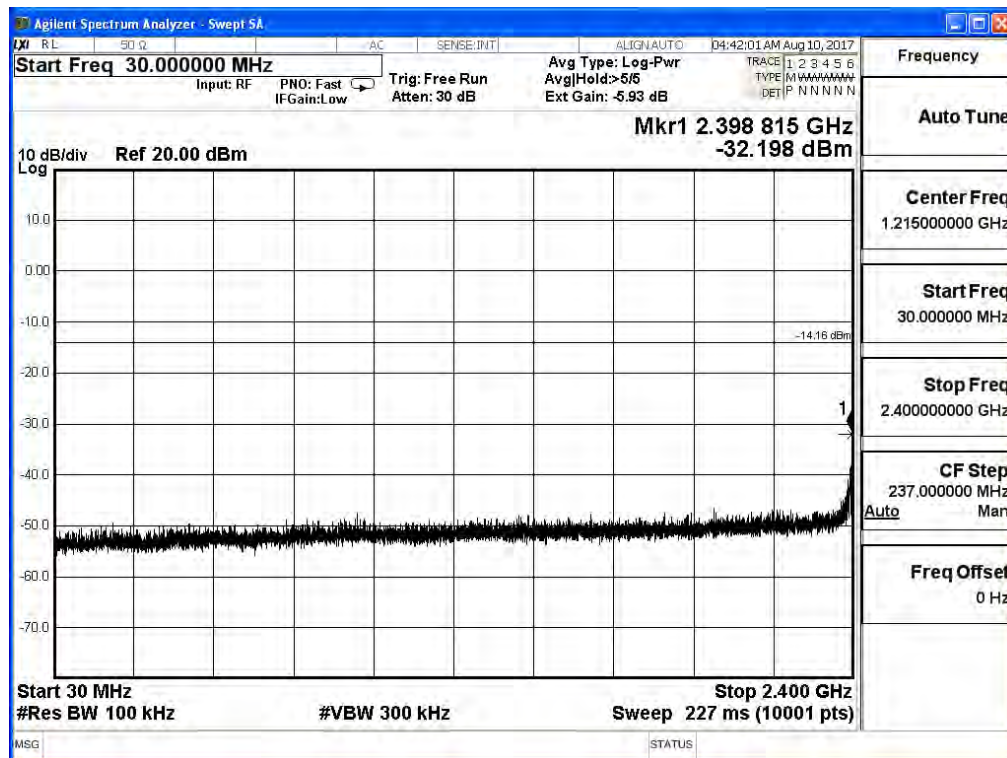
2412MHz (24.835GHz-25GHz)



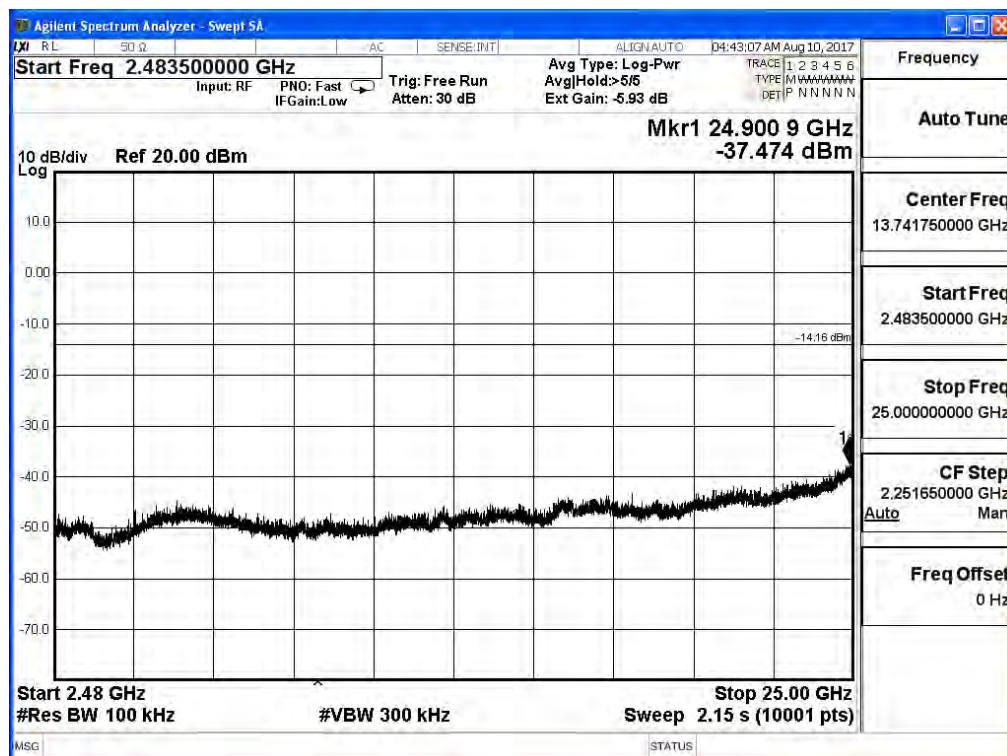
2437MHz



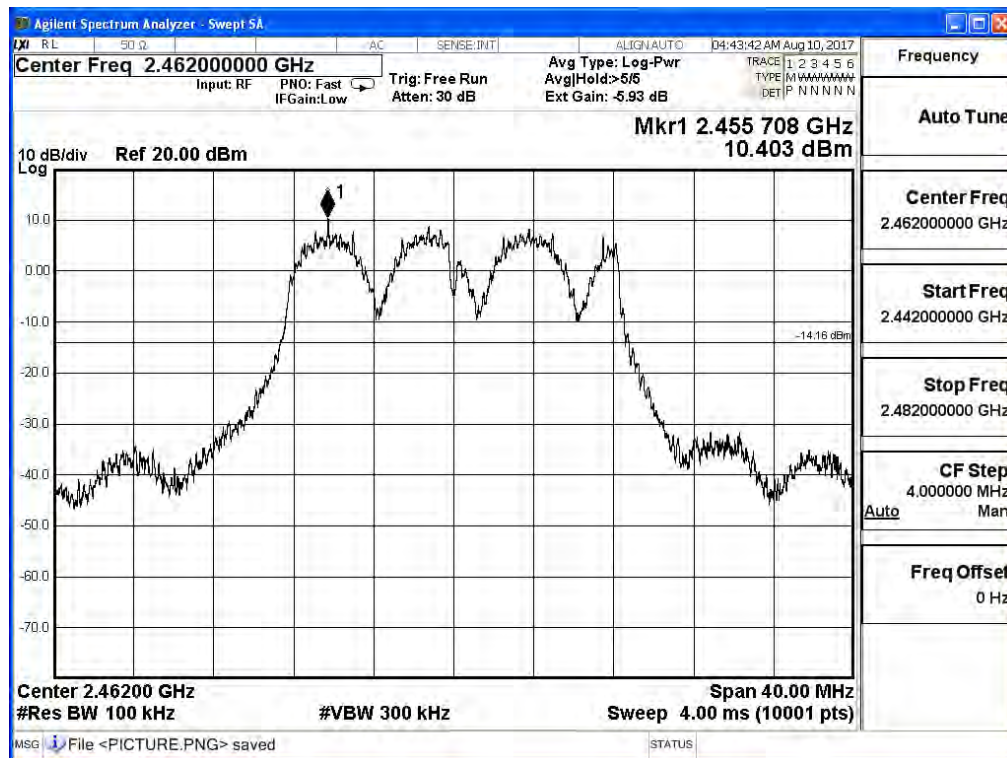
2437MHz (30MHz-24GHz)



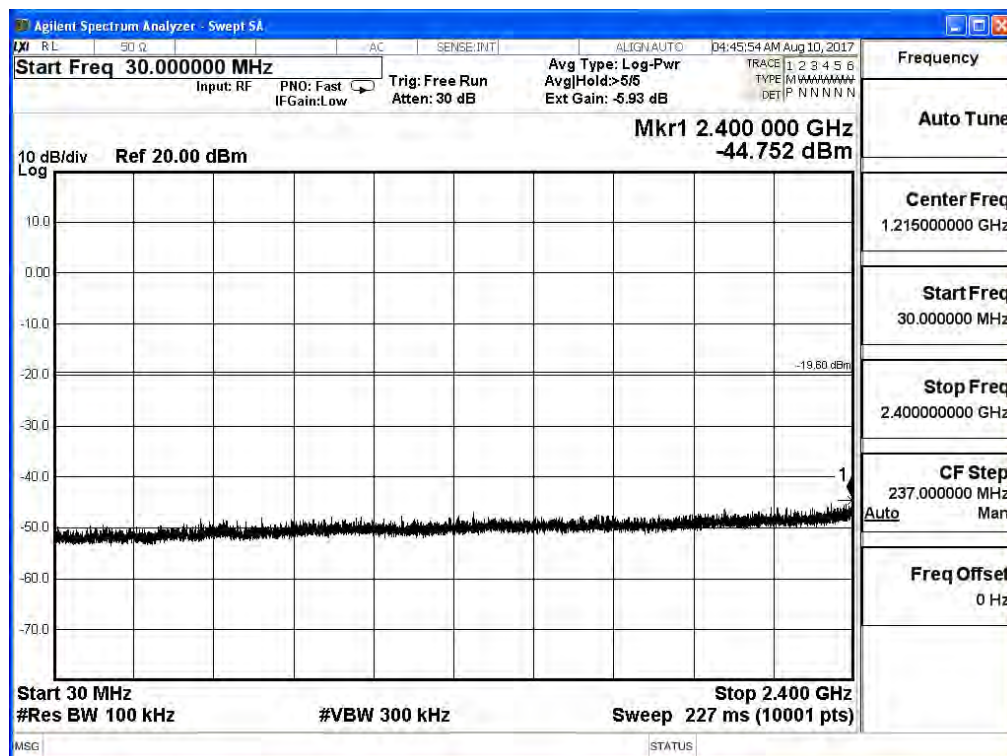
2437MHz (24.835GHz-25GHz)



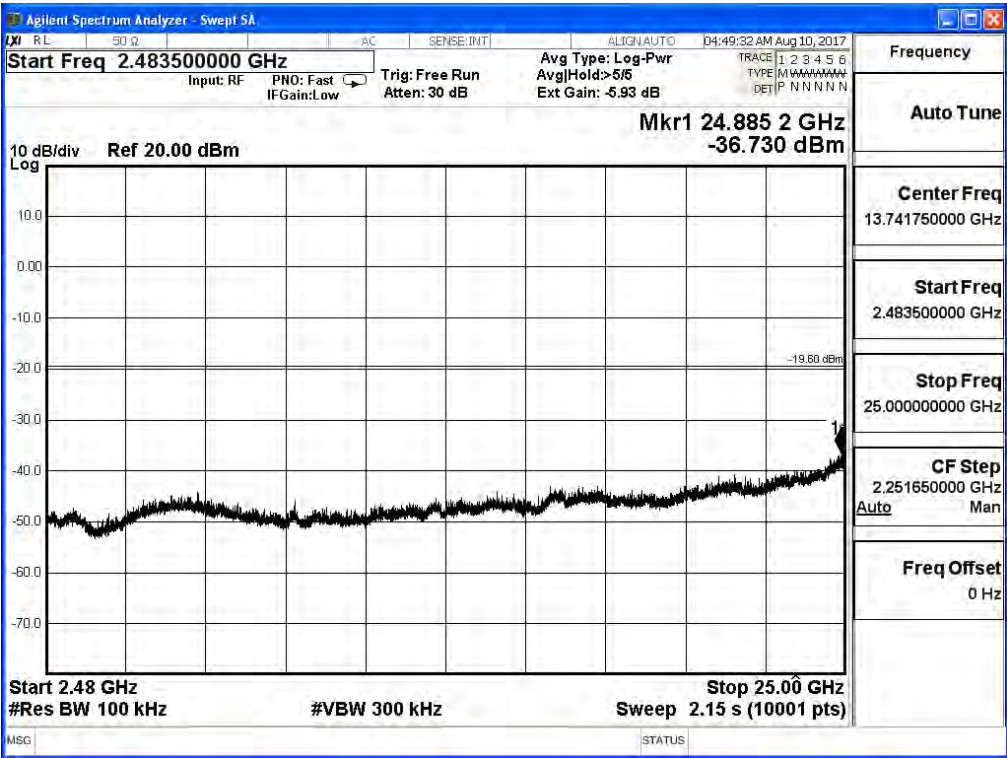
2462MHz



2462MHz (30MHz-24GHz)



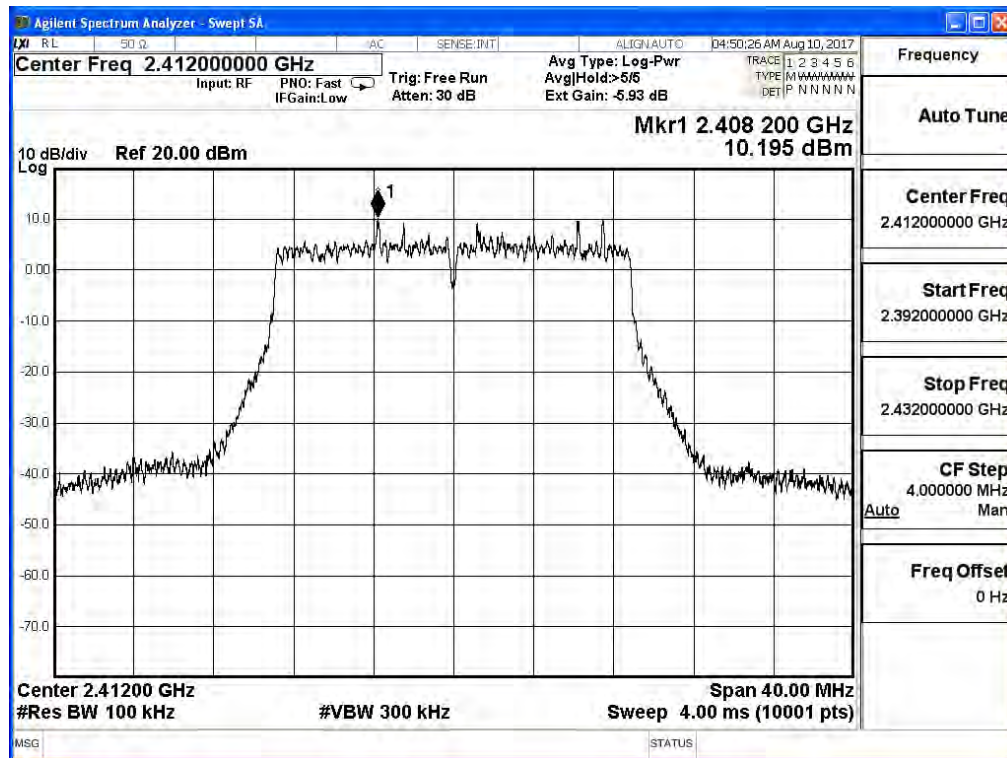
2462MHz (24.835GHz-25GHz)



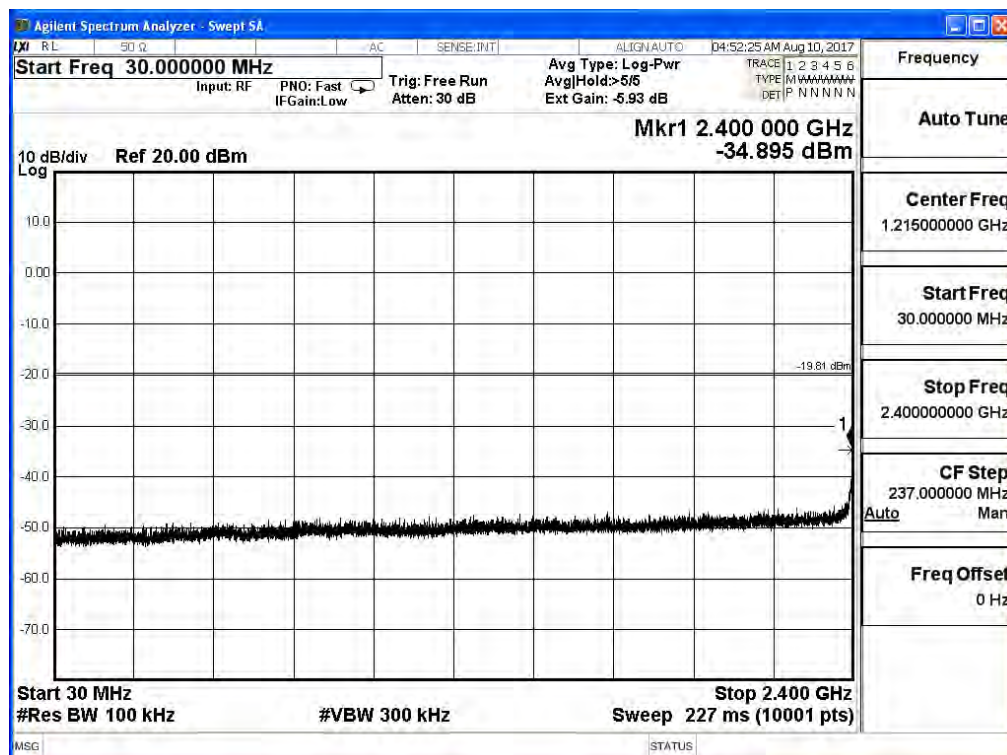
Product	Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP		
Test Item	RF antenna conducted test		
Test Mode	Mode 2: Tx_MIMO Mode (802.11 n20/n40)		
Date of Test	2017/08/18	Test Site	SR10-H

802.11n(20MHz)

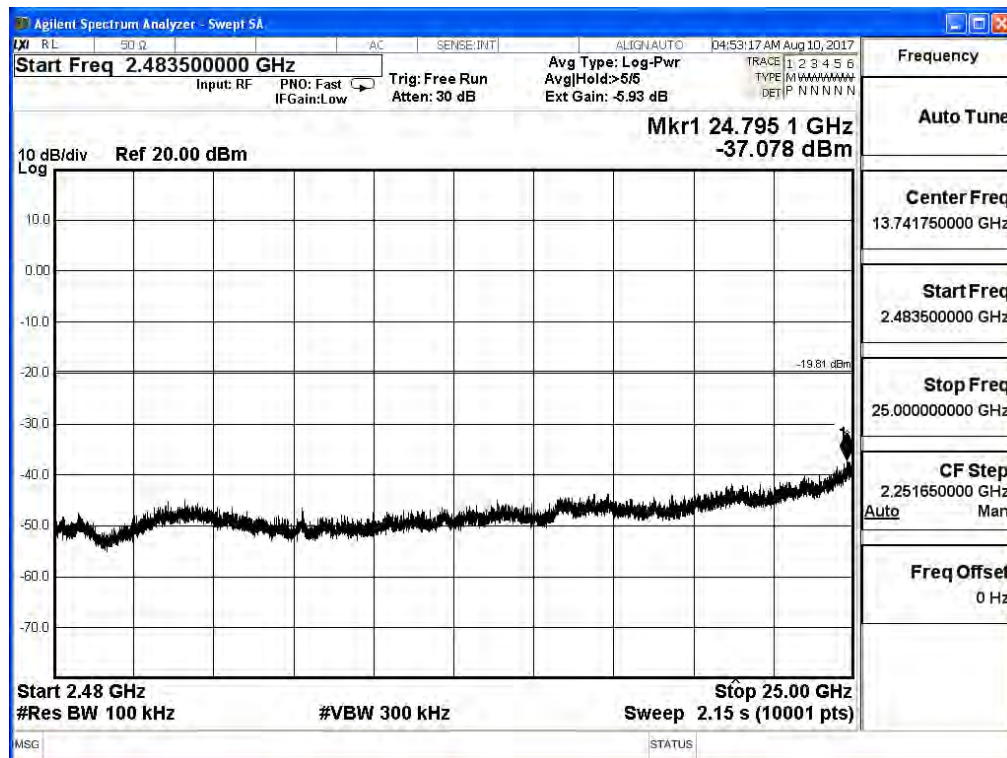
2412MHz



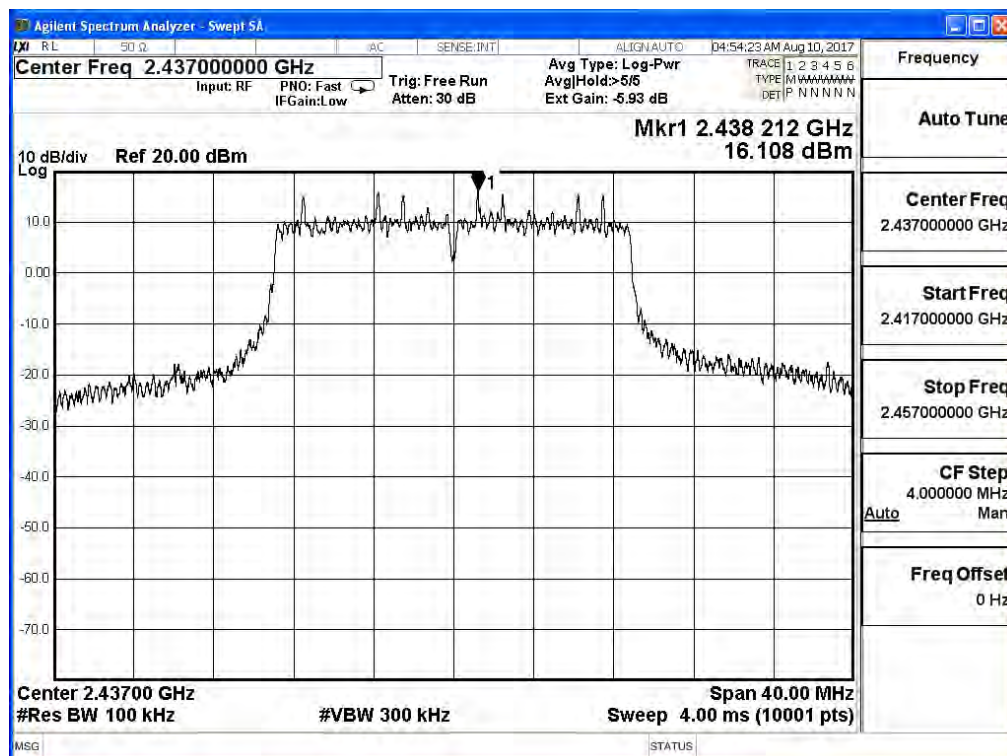
2412MHz (30MHz-24GHz)



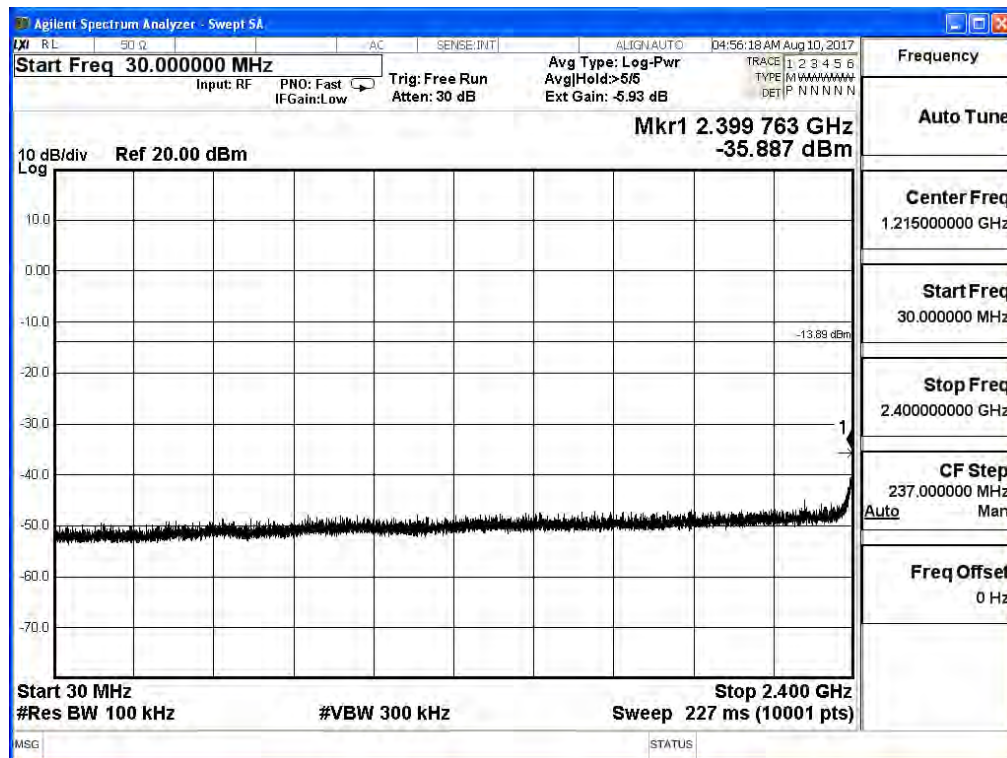
2412MHz (24.835GHz-25GHz)



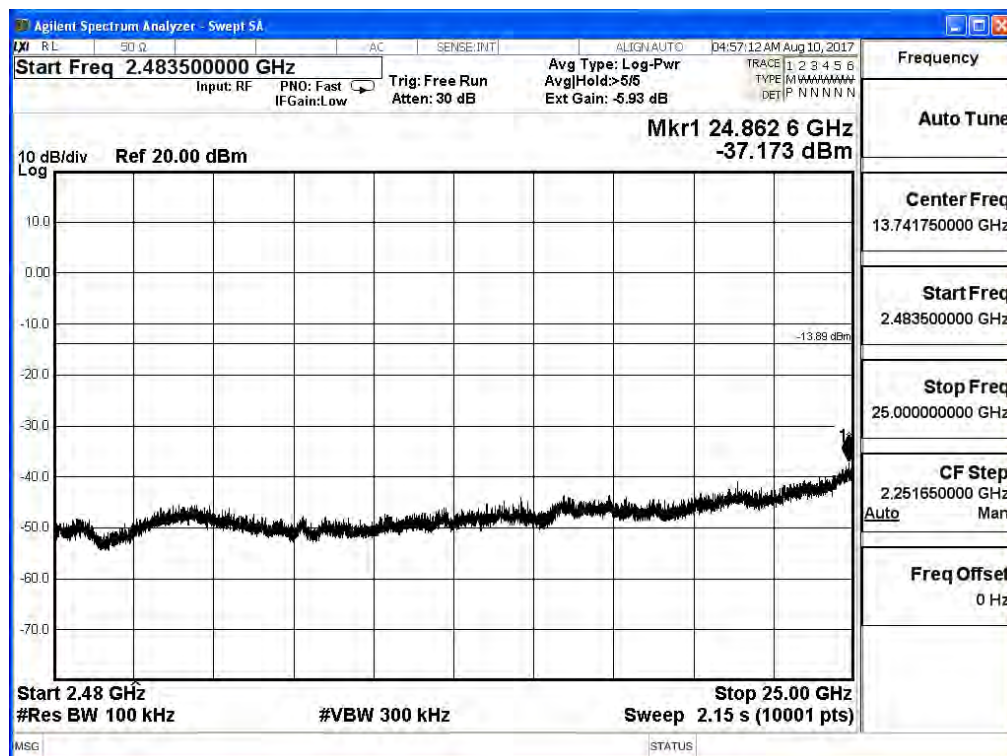
2437MHz



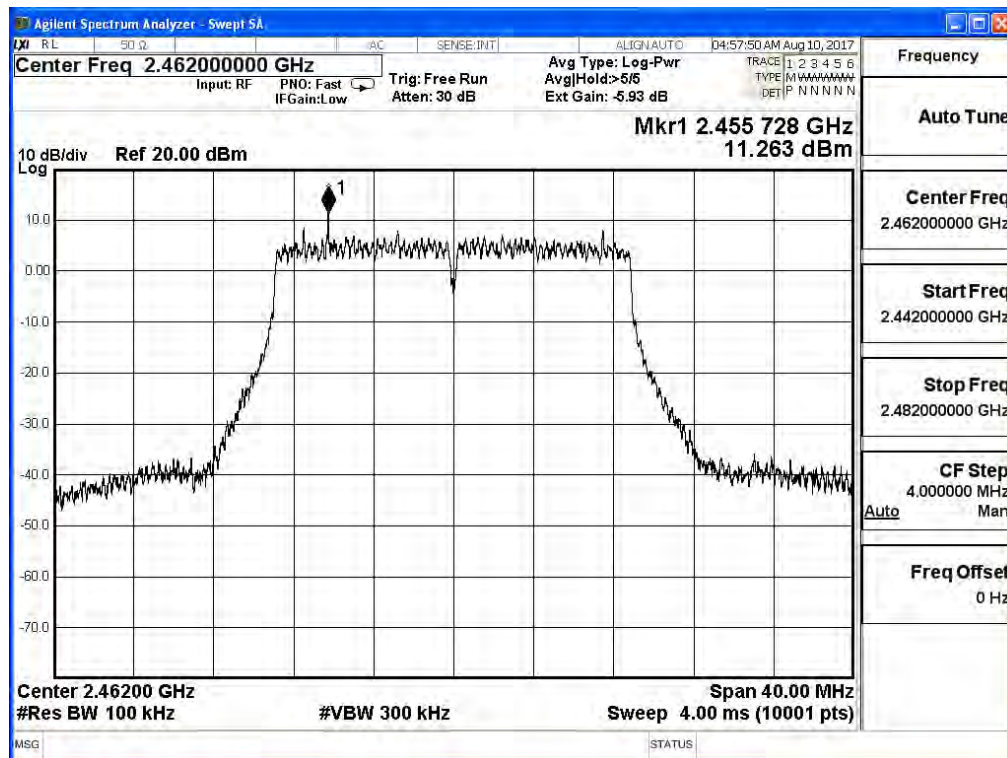
2437MHz (30MHz-24GHz)



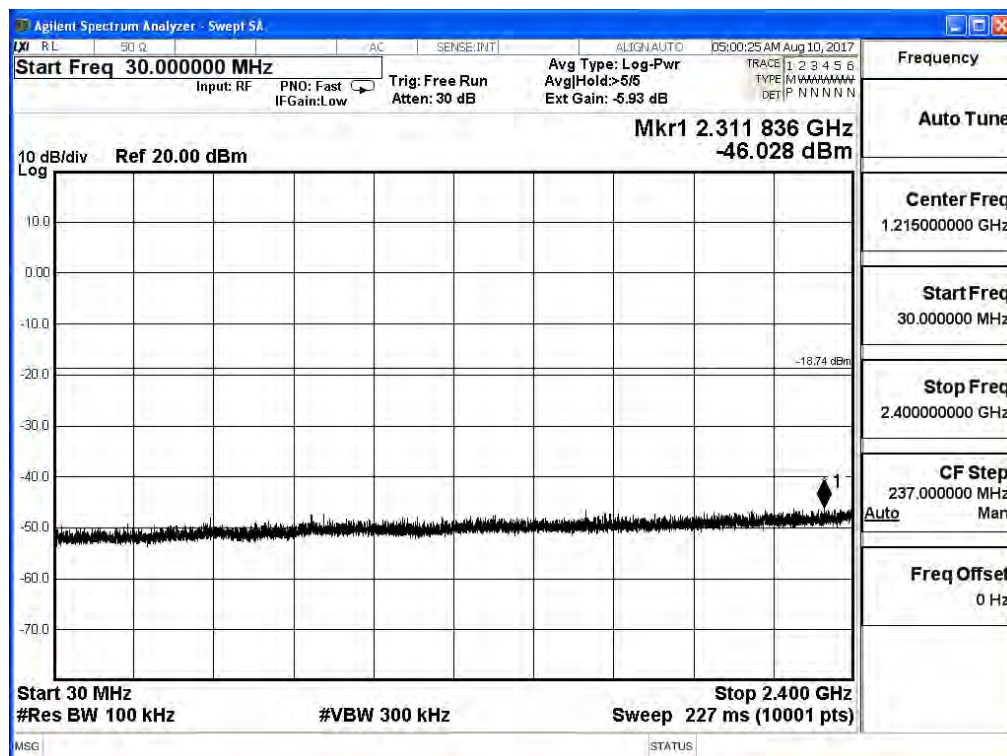
2437MHz (24.835GHz-25GHz)



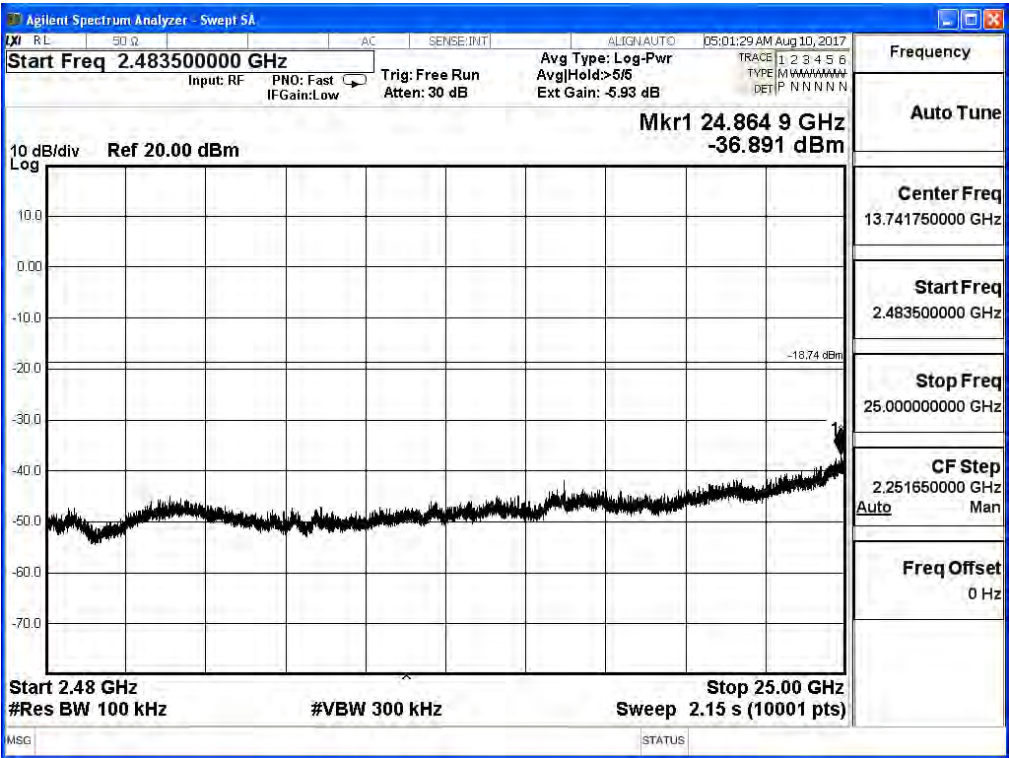
2462MHz



2462MHz (30MHz-24GHz)



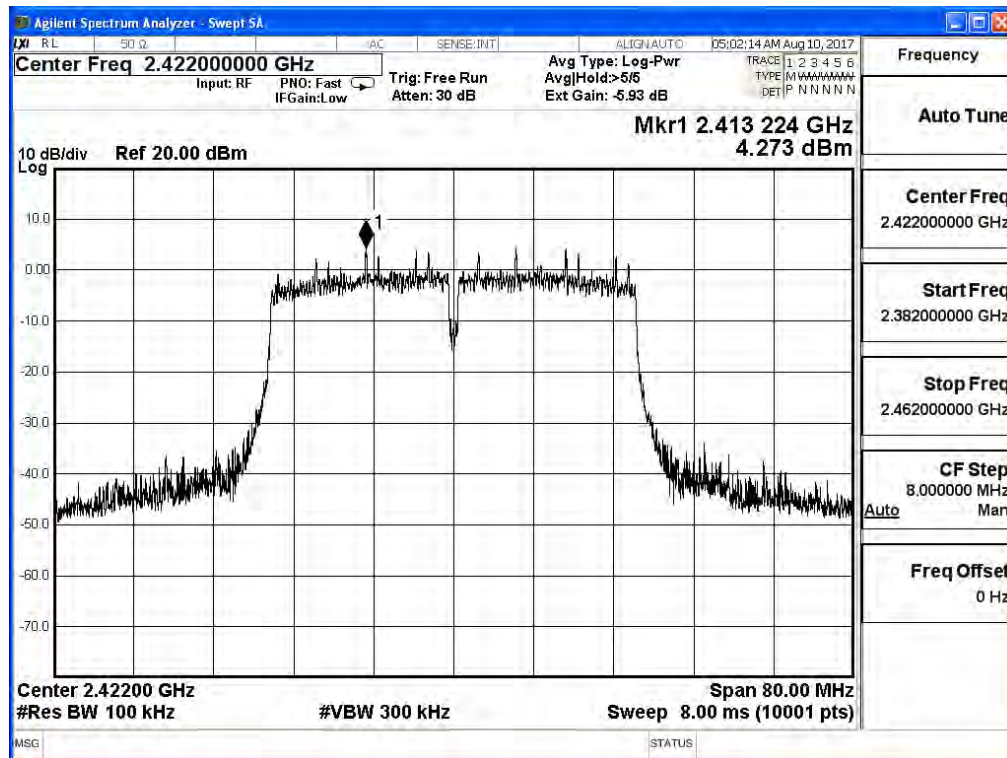
2462MHz (24.835GHz-25GHz)



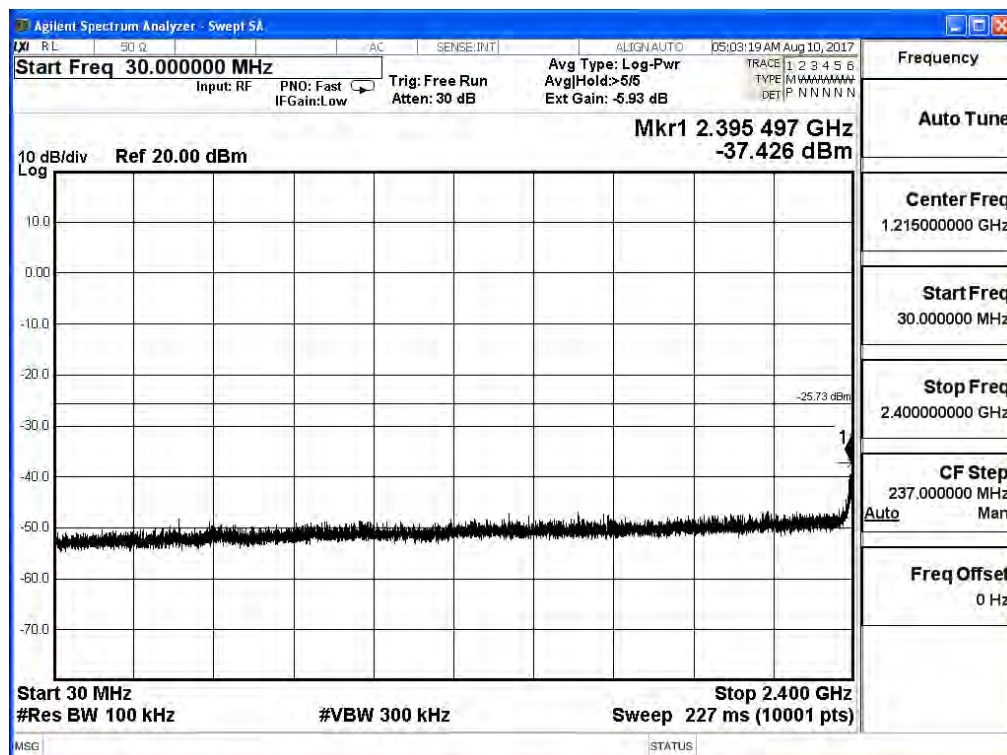
Product	Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP		
Test Item	RF antenna conducted test		
Test Mode	Mode 2: Tx_MIMO Mode (802.11 n20/n40)		
Date of Test	2017/08/18	Test Site	SR10-H

802.11n(40MHz)

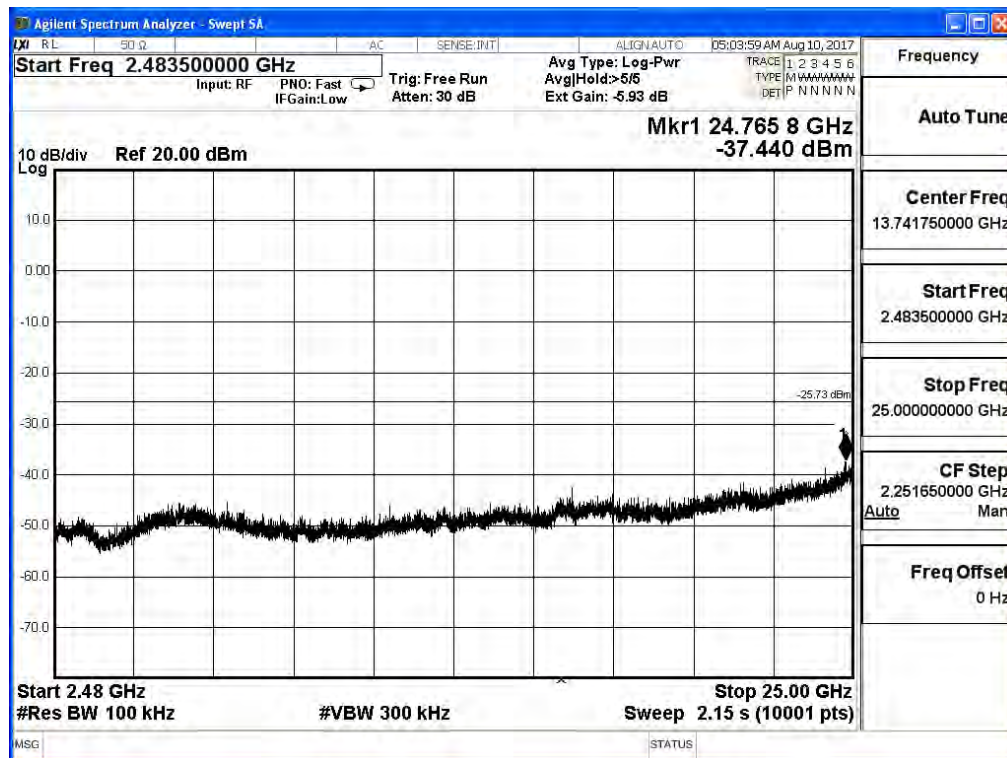
2422MHz



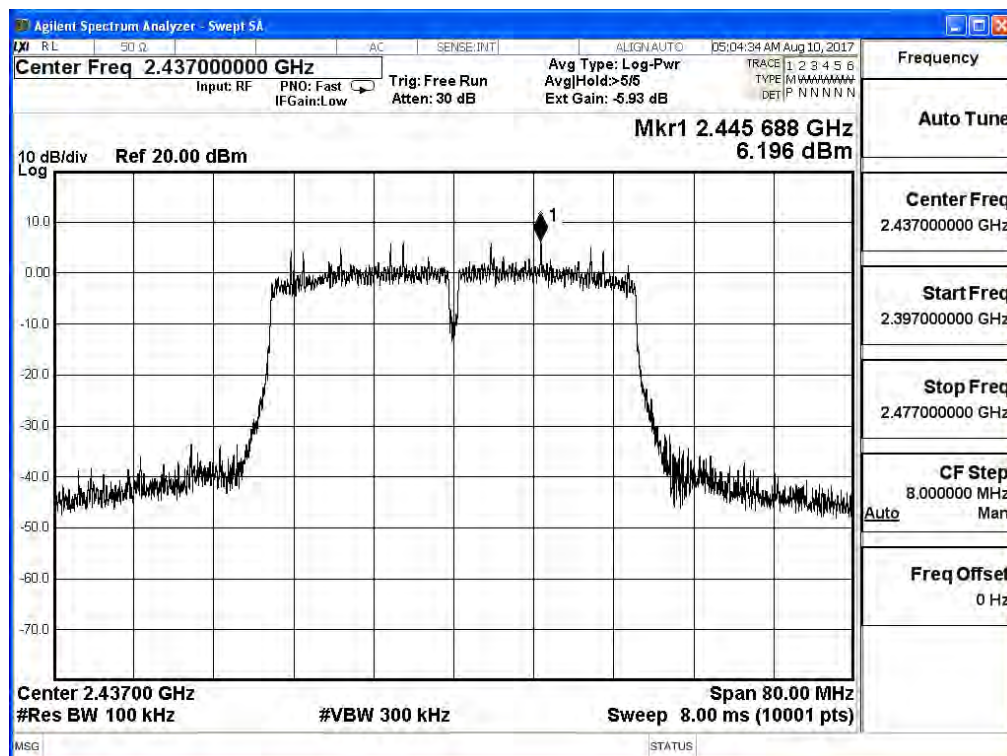
2422MHz (30MHz-24GHz)



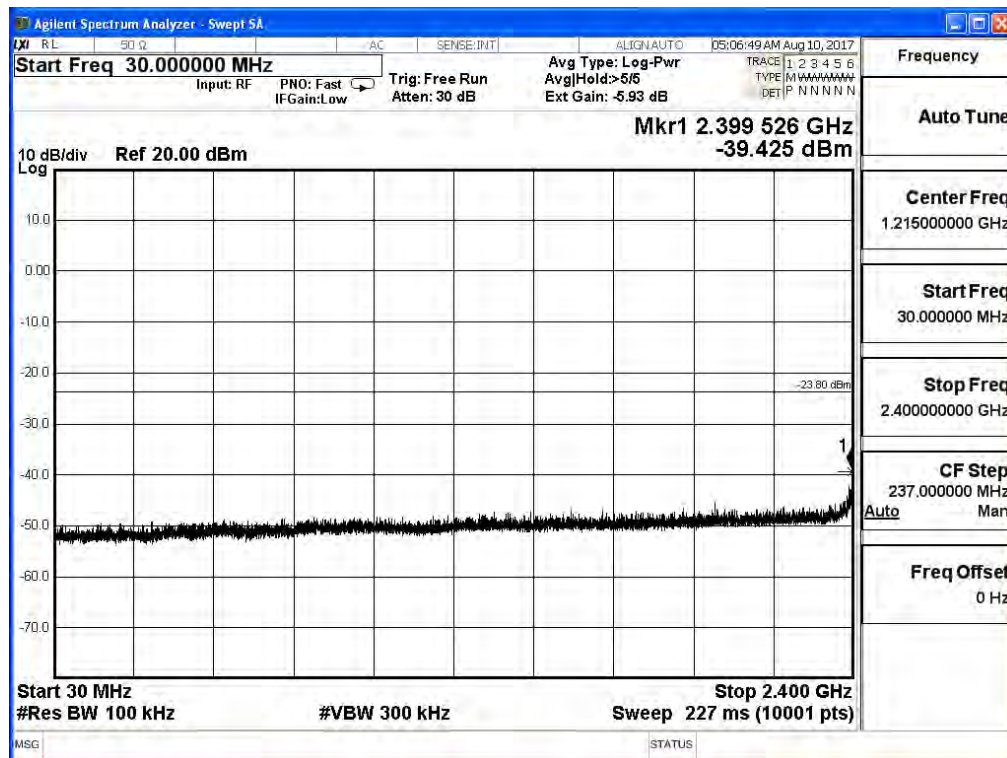
2422MHz (24.835GHz-25GHz)



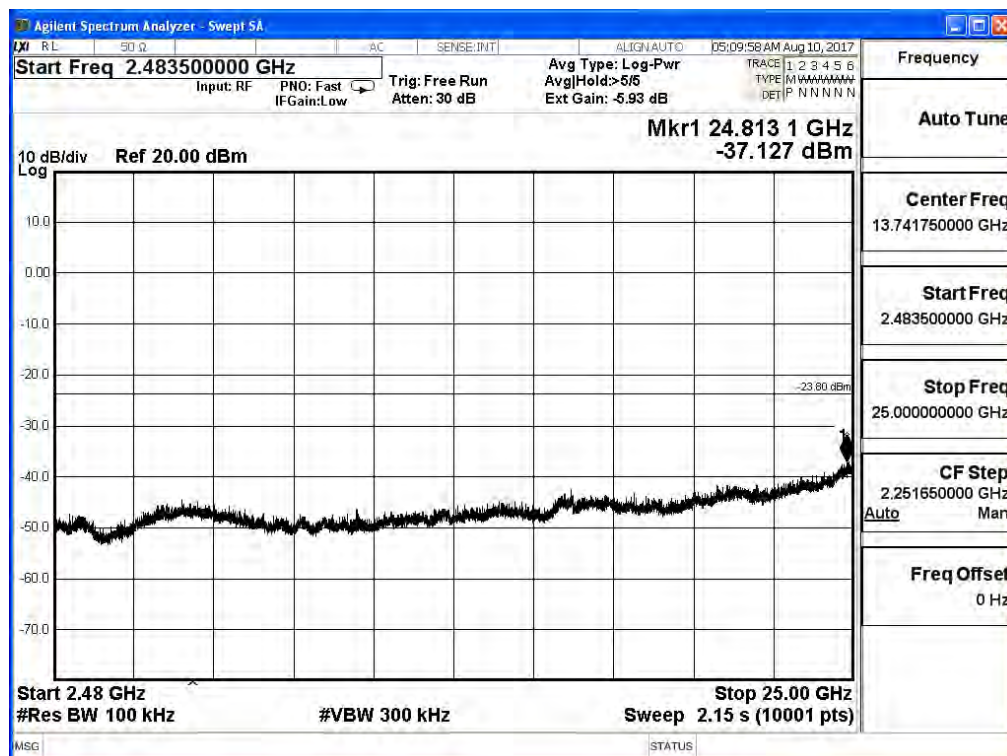
2437MHz



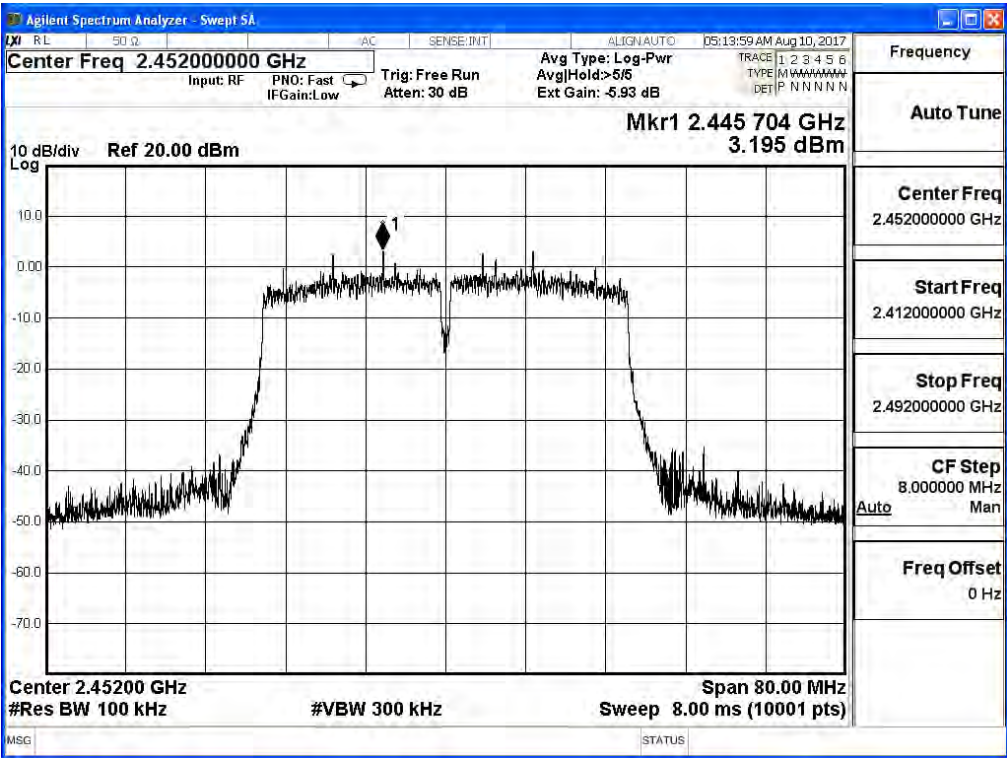
2437MHz (30MHz-24GHz)



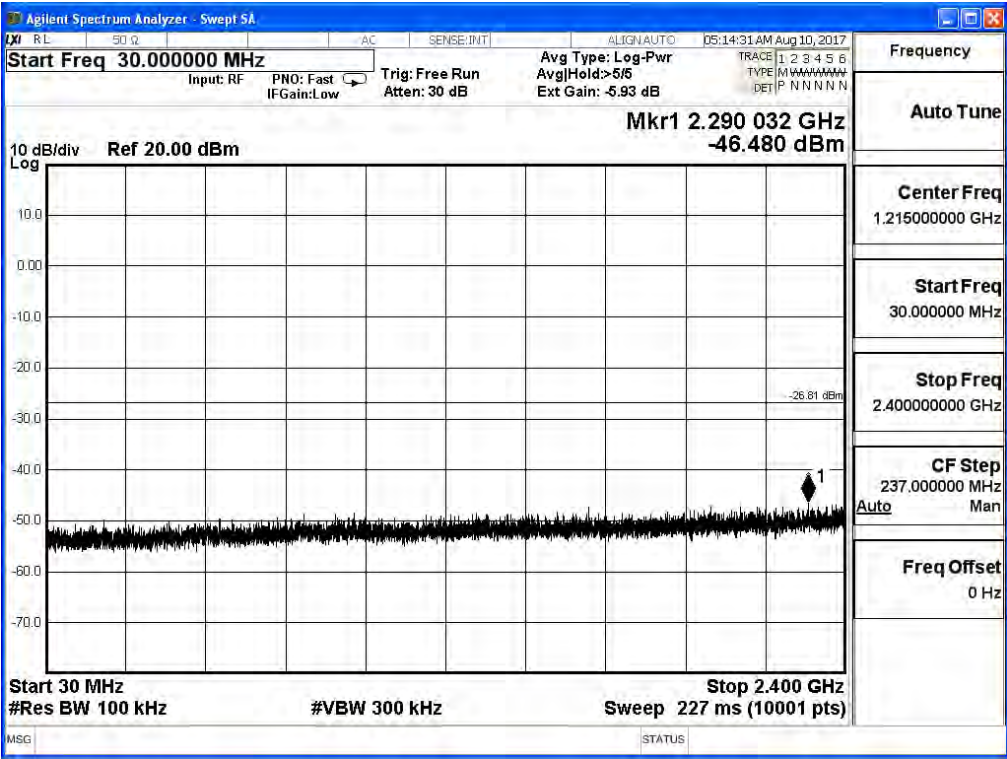
2437MHz (24.835GHz-25GHz)



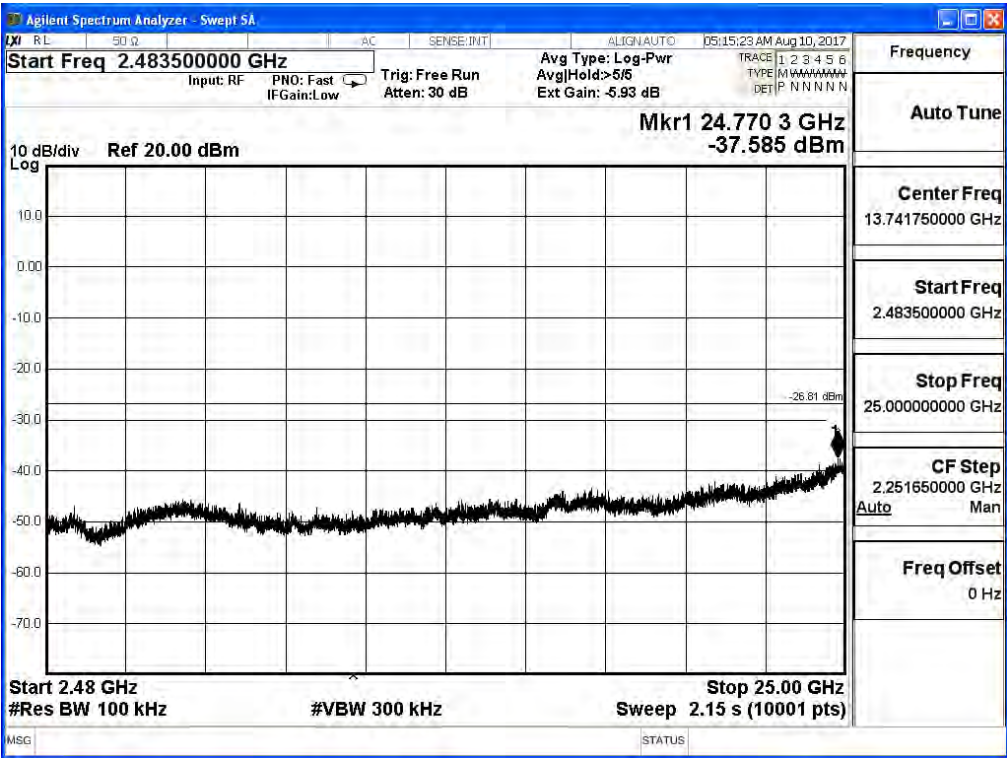
2452MHz



2452MHz (30MHz-24GHz)



2452MHz (24.835GHz-25GHz)



6. Radiated Emission Band Edge

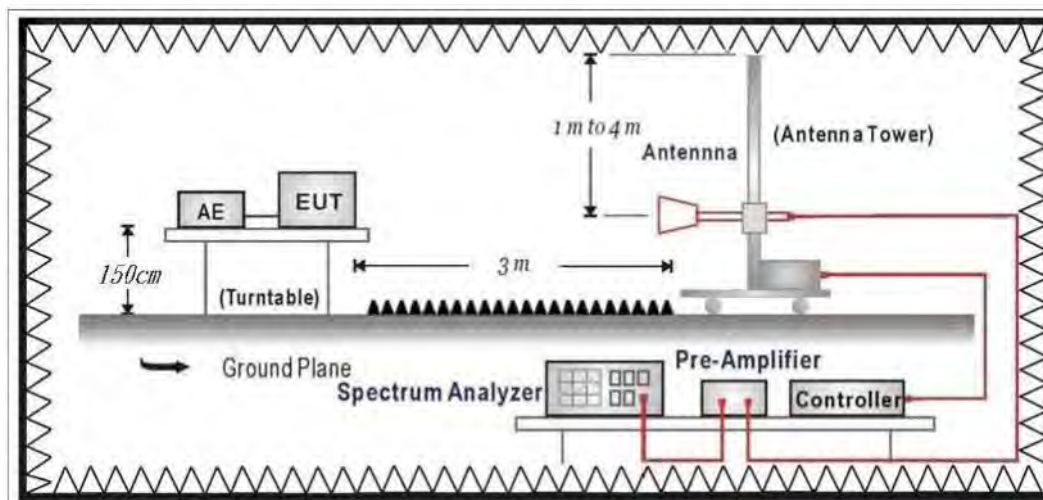
6.1. Test Equipment

The following test equipments are used during the test:

Radiated Emission Band Edge / CB4-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal Analyzer	R&S	FSVA40	101455	2016/11/28	2017/11/27
Signal & Spectrum Analyzer	R&S	FSV40	101049	2017/01/23	2018/01/22
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2017/03/13	2018/03/12
Bilog Antenna	Teseq	CBL6112D	23191	2017/06/28	2018/06/27
Horn Antenna	Schwarzbeck	BBHA 9120D	639	2017/06/14	2018/06/13
Horn Antenna	Schwarzbeck	BBHA 9170	203	2016/08/29	2017/08/28
Pre-Amplifier	RF Bay Inc.	LNA-1330	12162511	2017/03/09	2018/03/08
Pre-Amplifier	EMCI	EMCI 1830I	980366	2017/01/23	2018/01/22
Pre-Amplifier	MITEQ	JS44-45-8P	2014754	2016/12/26	2017/12/25

6.2. Test Setup



6.3. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

6.4. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to DTS test procedure of KDB558074 D01 V04 for compliance to FCC 47CFR 15.247 requirements.

The EUT and its simulators are placed on a turn table which is 1.5 meter above ground.

The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10: 2013 on radiated measurement.

6.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2015

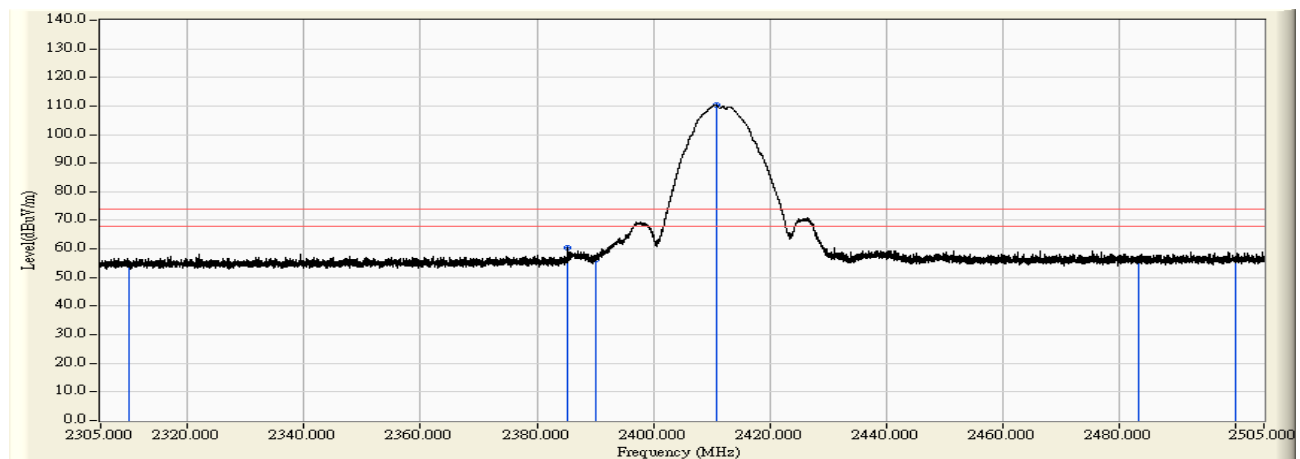
6.6. Uncertainty

The measurement uncertainty

± 3.9 dB above 1GHz

6.7. Test Result

Site : CB4-H	Time : 2017/08/02
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 1: Tx_CDD Mode (802.11 b/g)_ 802.11b_2412MHz

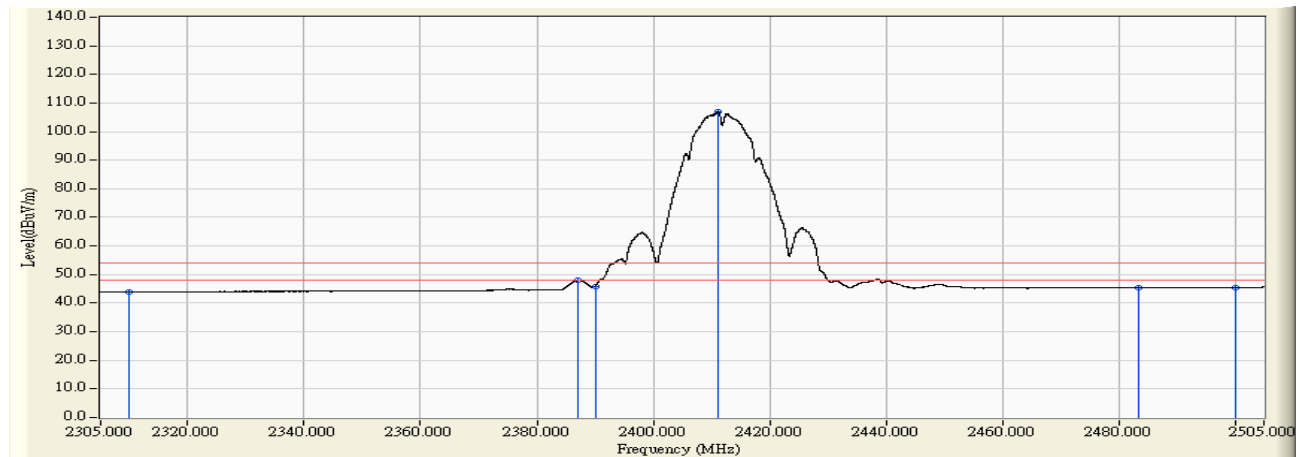


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	13.667	41.063	54.730	-19.270	74.000	PEAK
2		2385.332	14.101	46.263	60.364	-13.636	74.000	PEAK
3		2390.000	14.128	42.236	56.364	-17.636	74.000	PEAK
4	*	2410.809	14.247	96.093	110.340	36.340	74.000	PEAK
5		2483.500	14.658	41.549	56.208	-17.792	74.000	PEAK
6		2500.000	14.751	41.375	56.126	-17.874	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/08/02
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 1: Tx_CDD Mode (802.11 b/g)_ 802.11b_2412MHz

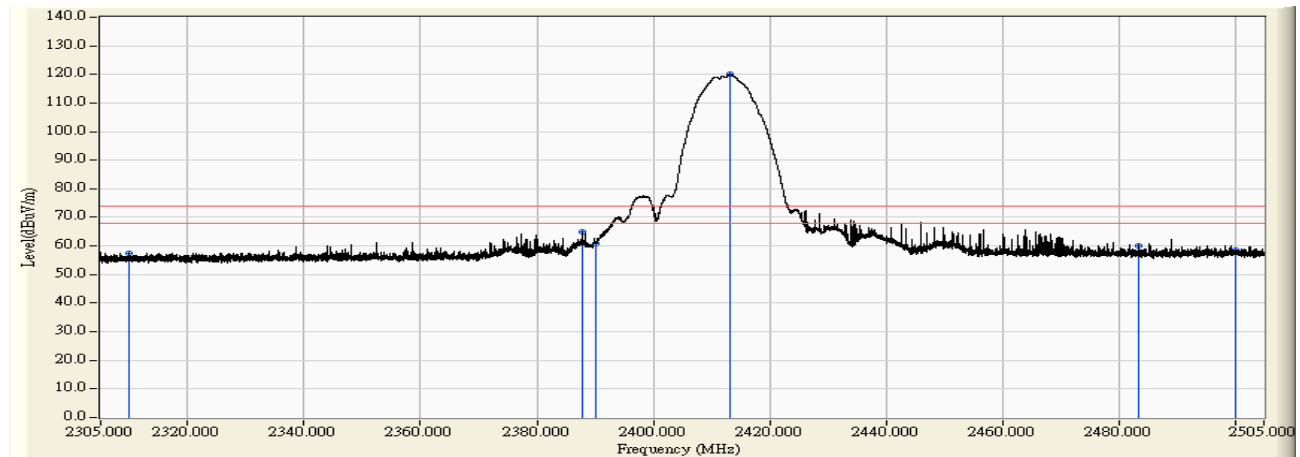


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	13.667	30.254	43.921	-10.079	54.000	AVERAGE
2		2387.072	14.111	34.015	48.126	-5.874	54.000	AVERAGE
3		2390.000	14.128	31.823	45.951	-8.049	54.000	AVERAGE
4	*	2411.149	14.249	92.696	106.945	52.945	54.000	AVERAGE
5		2483.500	14.658	30.718	45.377	-8.623	54.000	AVERAGE
6		2500.000	14.751	30.758	45.509	-8.491	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/08/02
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 1: Tx_CDD Mode (802.11 b/g)_ 802.11b_2412MHz

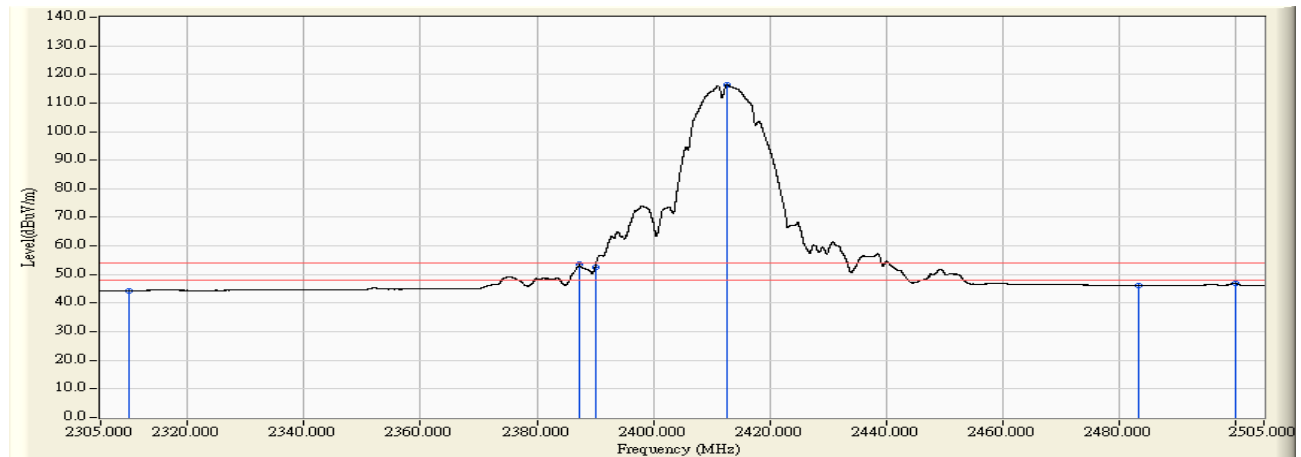


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	13.667	43.847	57.514	-16.486	74.000	PEAK
2		2387.872	14.116	50.841	64.957	-9.043	74.000	PEAK
3		2390.000	14.128	46.848	60.976	-13.024	74.000	PEAK
4	*	2413.129	14.261	105.718	119.978	45.978	74.000	PEAK
5		2483.500	14.658	45.440	60.099	-13.901	74.000	PEAK
6		2500.000	14.751	43.691	58.442	-15.558	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/08/02
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 1: Tx_CDD Mode (802.11 b/g)_ 802.11b_2412MHz

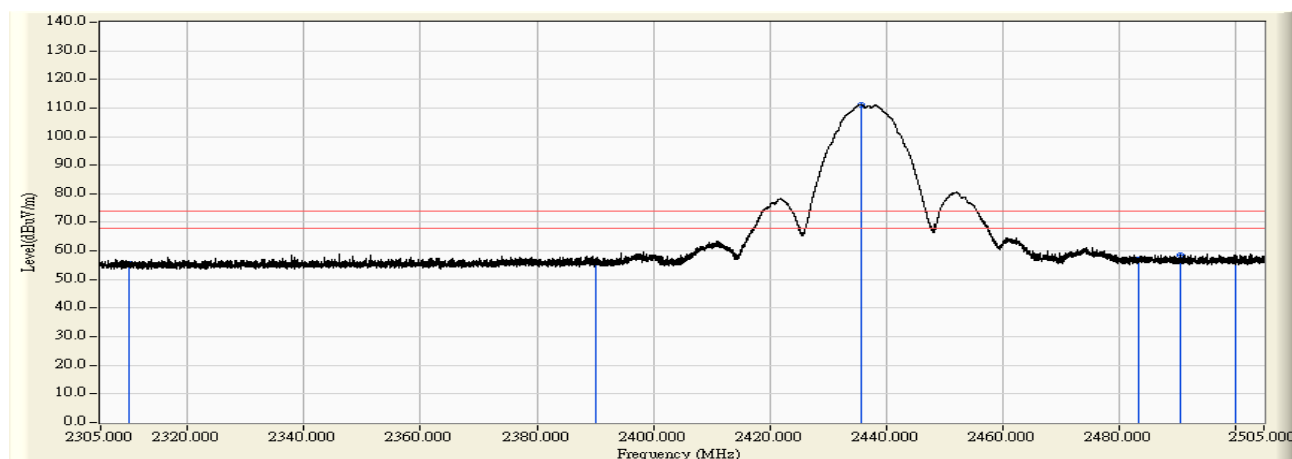


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	13.667	30.627	44.294	-9.706	54.000	AVERAGE
2		2387.232	14.112	39.528	53.640	-0.360	54.000	AVERAGE
3		2390.000	14.128	38.502	52.630	-1.370	54.000	AVERAGE
4	*	2412.689	14.257	102.189	116.447	62.447	54.000	AVERAGE
5		2483.500	14.658	31.578	46.237	-7.763	54.000	AVERAGE
6		2500.000	14.751	32.255	47.006	-6.994	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/08/02
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 1: Tx_CDD Mode (802.11 b/g)_ 802.11b_2437MHz

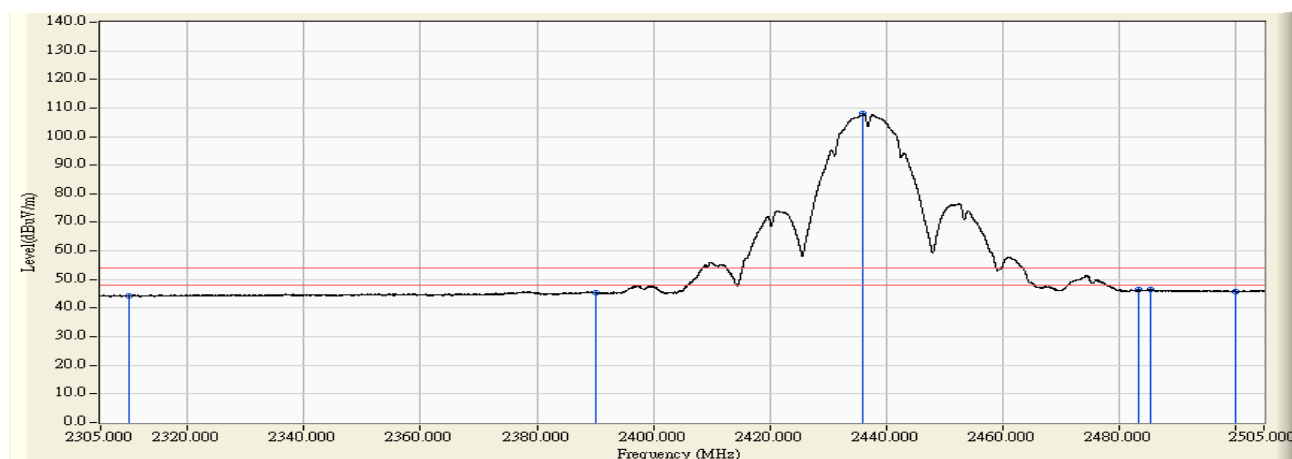


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	13.667	41.959	55.626	-18.374	74.000	PEAK
2	2390.000	14.128	42.115	56.243	-17.757	74.000	PEAK
3	* 2435.747	14.388	96.723	111.111	37.111	74.000	PEAK
4	2483.500	14.658	42.290	56.949	-17.051	74.000	PEAK
5	2490.561	14.698	44.017	58.716	-15.284	74.000	PEAK
6	2500.000	14.751	41.942	56.693	-17.307	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/08/02
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 1: Tx_CDD Mode (802.11 b/g)_ 802.11b_2437MHz

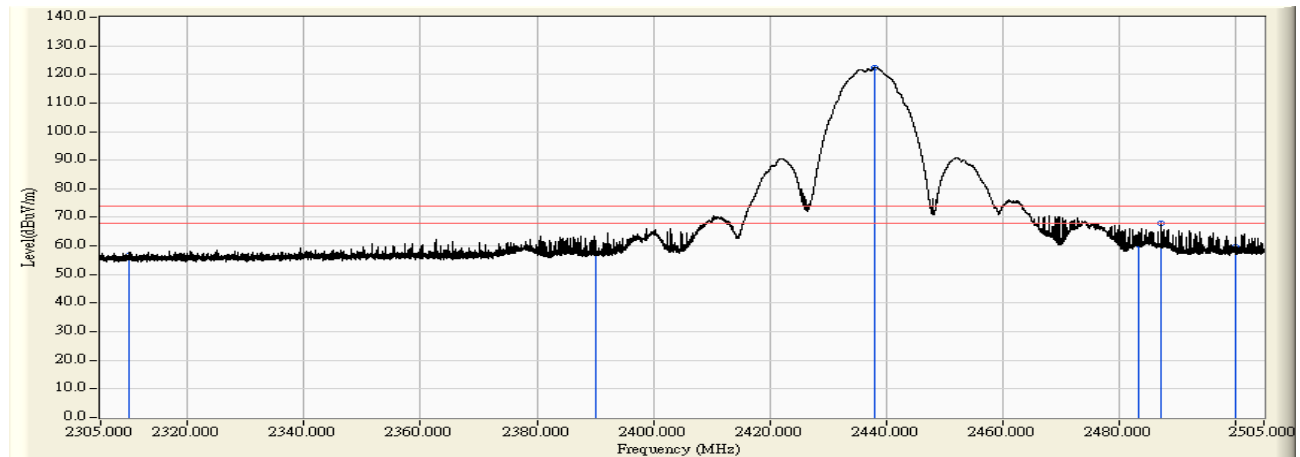


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	13.667	30.440	44.107	-9.893	54.000	AVERAGE
2	2390.000	14.128	31.329	45.457	-8.543	54.000	AVERAGE
3	* 2436.147	14.391	93.520	107.911	53.911	54.000	AVERAGE
4	2483.500	14.658	31.795	46.454	-7.546	54.000	AVERAGE
5	2485.542	14.670	31.712	46.382	-7.618	54.000	AVERAGE
6	2500.000	14.751	30.946	45.697	-8.303	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/08/02
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 1: Tx_CDD Mode (802.11 b/g)_ 802.11b_2437MHz

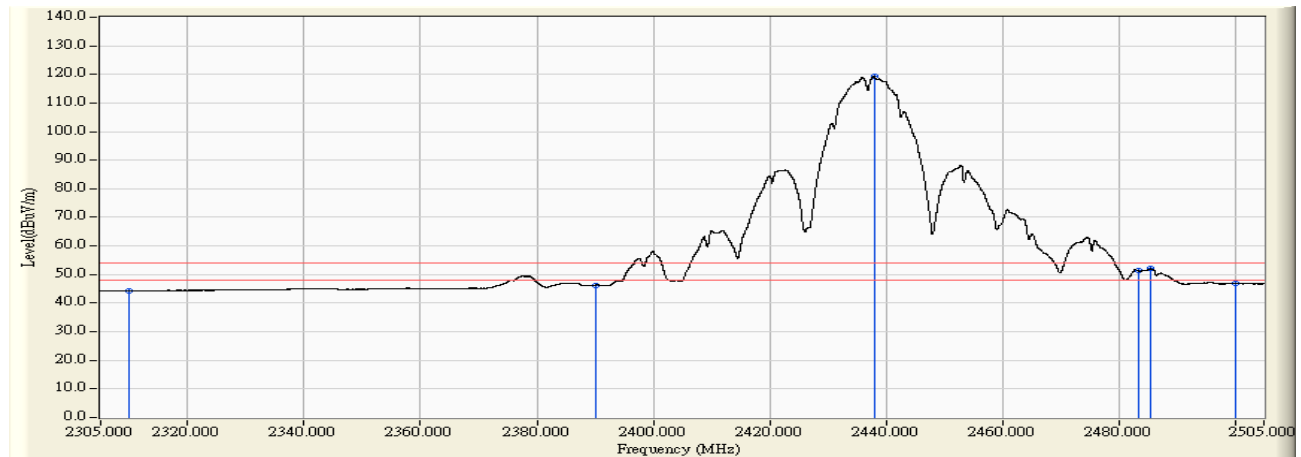


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	13.667	43.188	56.855	-17.145	74.000	PEAK
2	2390.000	14.128	43.373	57.501	-16.499	74.000	PEAK
3	* 2438.107	14.402	107.933	122.335	48.335	74.000	PEAK
4	2483.500	14.658	45.822	60.481	-13.519	74.000	PEAK
5	2487.242	14.679	53.295	67.975	-6.025	74.000	PEAK
6	2500.000	14.751	44.863	59.614	-14.386	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/08/02
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 1: Tx_CDD Mode (802.11 b/g)_ 802.11b_2437MHz

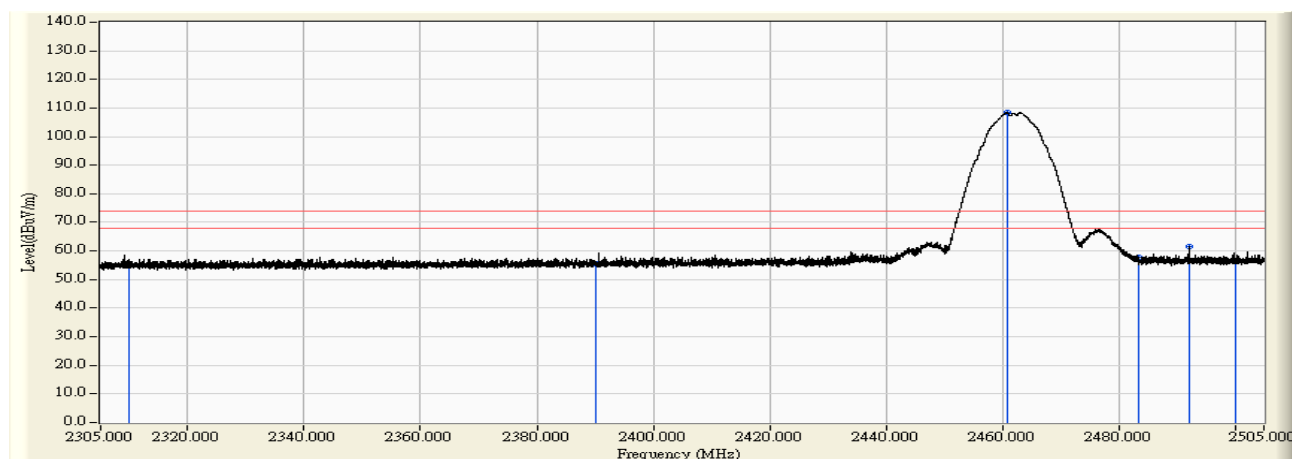


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	13.667	30.676	44.343	-9.657	54.000	AVERAGE
2	2390.000	14.128	32.177	46.305	-7.695	54.000	AVERAGE
3	* 2437.967	14.400	104.874	119.275	65.275	54.000	AVERAGE
4	2483.500	14.658	36.609	51.268	-2.732	54.000	AVERAGE
5	2485.462	14.670	37.410	52.080	-1.920	54.000	AVERAGE
6	2500.000	14.751	32.191	46.942	-7.058	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/08/02
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 1: Tx_CDD Mode (802.11 b/g)_ 802.11b_2462MHz

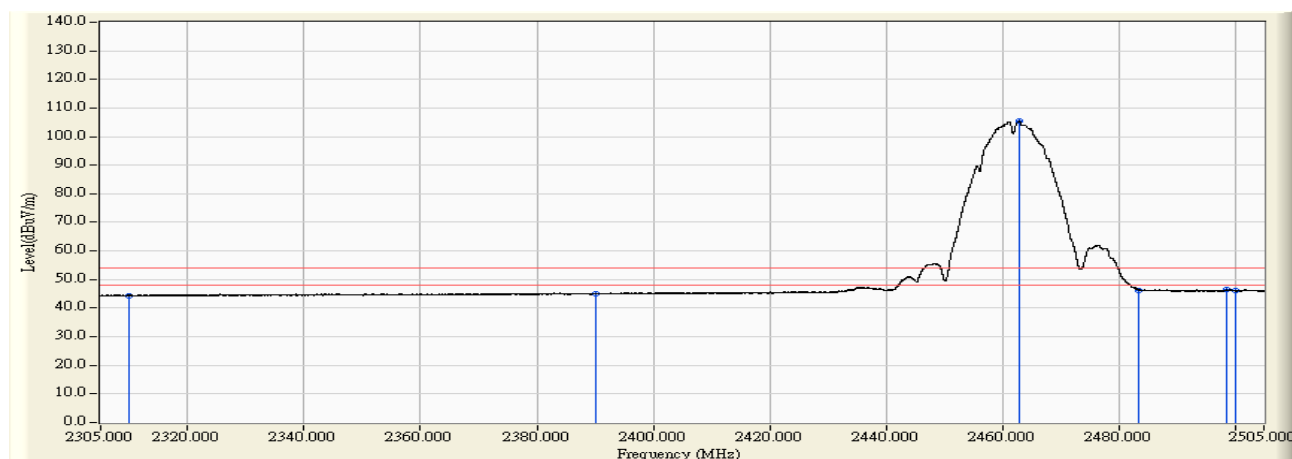


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	13.667	41.190	54.857	-19.143	74.000	PEAK
2	2390.000	14.128	41.526	55.654	-18.346	74.000	PEAK
3	* 2460.844	14.531	93.820	108.350	34.350	74.000	PEAK
4	2483.500	14.658	43.149	57.808	-16.192	74.000	PEAK
5	2492.161	14.708	46.796	61.504	-12.496	74.000	PEAK
6	2500.000	14.751	41.527	56.278	-17.722	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/08/02
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 1: Tx_CDD Mode (802.11 b/g)_ 802.11b_2462MHz

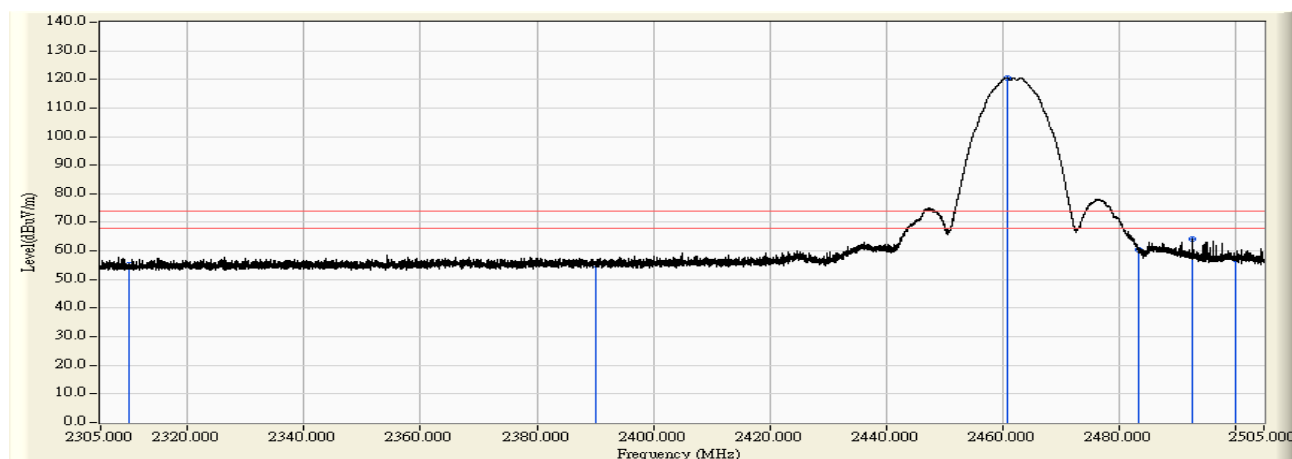


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	13.667	30.721	44.388	-9.612	54.000	AVERAGE
2	2390.000	14.128	30.846	44.974	-9.026	54.000	AVERAGE
3	* 2462.944	14.542	90.840	105.382	51.382	54.000	AVERAGE
4	2483.500	14.658	31.642	46.301	-7.699	54.000	AVERAGE
5	2498.601	14.743	31.671	46.415	-7.585	54.000	AVERAGE
6	2500.000	14.751	31.269	46.020	-7.980	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/08/02
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 1: Tx_CDD Mode (802.11 b/g)_ 802.11b_2462MHz

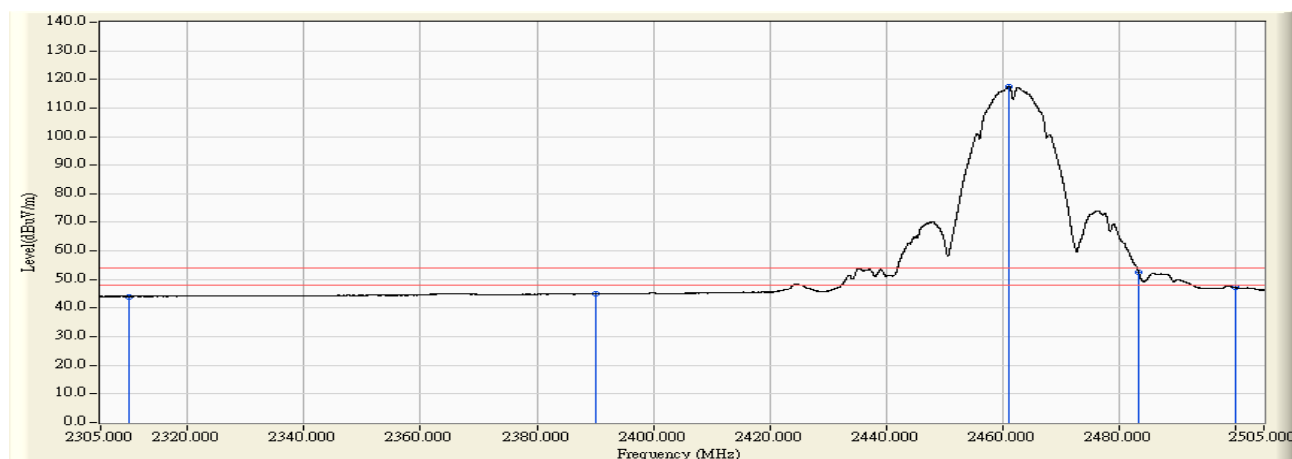


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	13.667	41.672	55.339	-18.661	74.000	PEAK
2	2390.000	14.128	41.064	55.192	-18.808	74.000	PEAK
3	* 2460.784	14.530	106.096	120.626	46.626	74.000	PEAK
4	2483.500	14.658	45.950	60.609	-13.391	74.000	PEAK
5	2492.781	14.712	49.554	64.265	-9.735	74.000	PEAK
6	2500.000	14.751	42.159	56.910	-17.090	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/08/02
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 1: Tx_CDD Mode (802.11 b/g)_ 802.11b_2462MHz

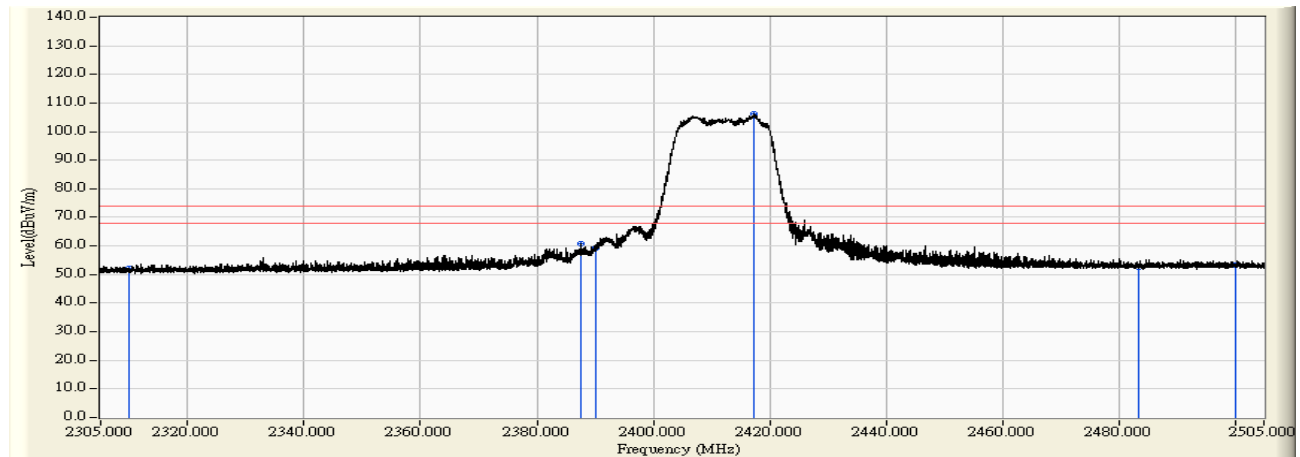


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	13.667	30.427	44.094	-9.906	54.000	AVERAGE
2	2390.000	14.128	30.819	44.947	-9.053	54.000	AVERAGE
3	* 2461.144	14.532	102.958	117.490	63.490	54.000	AVERAGE
4	2483.500	14.658	37.928	52.587	-1.413	54.000	AVERAGE
5	2483.502	14.658	37.923	52.582	-1.418	54.000	AVERAGE
6	2500.000	14.751	32.467	47.218	-6.782	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/08/02
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 1: Tx_CDD Mode (802.11 b/g)_ 802.11g_2412MHz

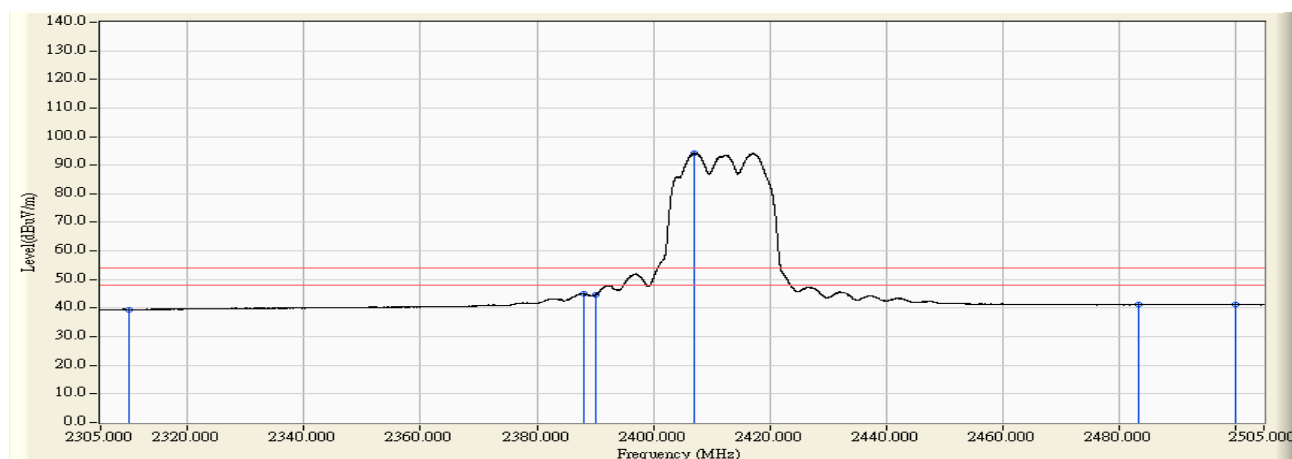


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	13.667	38.331	51.998	-22.002	74.000	PEAK
2		2387.672	14.115	46.654	60.769	-13.231	74.000	PEAK
3		2390.000	14.128	45.337	59.465	-14.535	74.000	PEAK
4	*	2417.429	14.284	91.757	106.042	32.042	74.000	PEAK
5		2483.500	14.658	37.712	52.371	-21.629	74.000	PEAK
6		2500.000	14.751	38.618	53.369	-20.631	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/08/02
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 1: Tx_CDD Mode (802.11 b/g)_ 802.11g_2412MHz

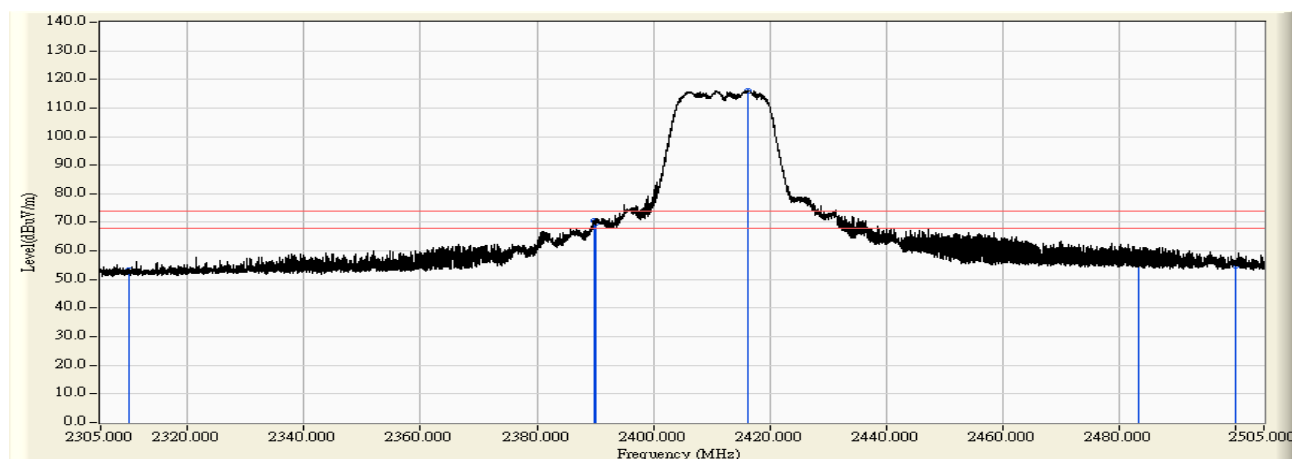


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	13.667	25.778	39.445	-14.555	54.000	AVERAGE
2		2387.952	14.116	30.838	44.954	-9.046	54.000	AVERAGE
3		2390.000	14.128	30.487	44.615	-9.385	54.000	AVERAGE
4	*	2407.110	14.226	80.031	94.257	40.257	54.000	AVERAGE
5		2483.500	14.658	26.492	41.151	-12.849	54.000	AVERAGE
6		2500.000	14.751	26.613	41.364	-12.636	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/08/02
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 1: Tx_CDD Mode (802.11 b/g)_ 802.11g_2412MHz

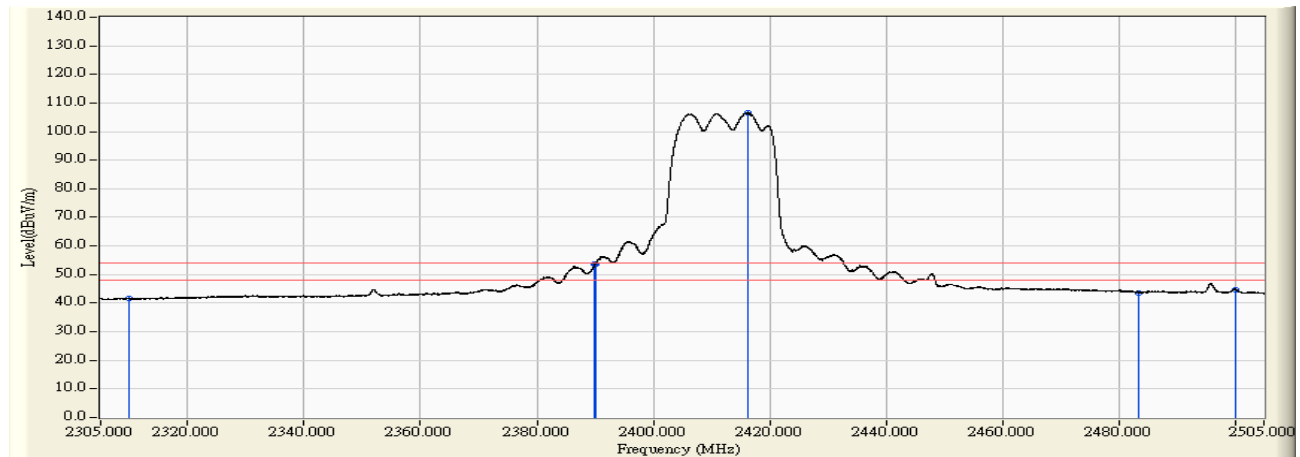


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	13.667	39.453	53.120	-20.880	74.000	PEAK
2	2389.891	14.128	56.601	70.729	-3.271	74.000	PEAK
3	2390.000	14.128	55.805	69.933	-4.067	74.000	PEAK
4	* 2416.229	14.278	101.855	116.133	42.133	74.000	PEAK
5	2483.500	14.658	40.892	55.551	-18.449	74.000	PEAK
6	2500.000	14.751	40.080	54.831	-19.169	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/08/02
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 1: Tx_CDD Mode (802.11 b/g)_ 802.11g_2412MHz

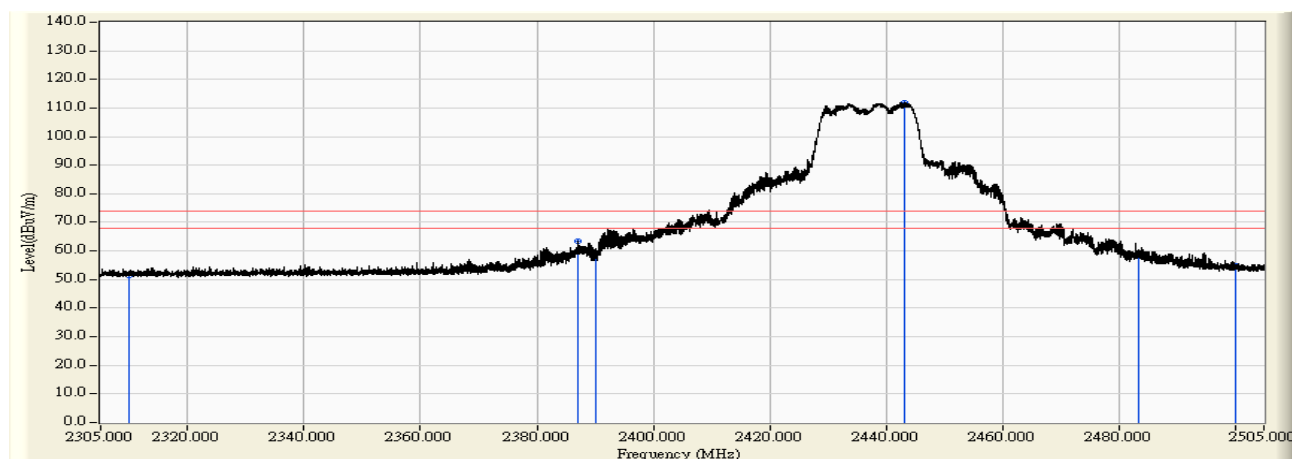


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	13.667	27.853	41.520	-12.480	54.000	AVERAGE
2		2389.991	14.128	39.420	53.548	-0.452	54.000	AVERAGE
3		2390.000	14.128	39.466	53.594	-0.406	54.000	AVERAGE
4	*	2416.349	14.278	92.366	106.644	52.644	54.000	AVERAGE
5		2483.500	14.658	29.012	43.671	-10.329	54.000	AVERAGE
6		2500.000	14.751	30.093	44.844	-9.156	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/08/02
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 1: Tx_CDD Mode (802.11 b/g)_ 802.11g_2437MHz

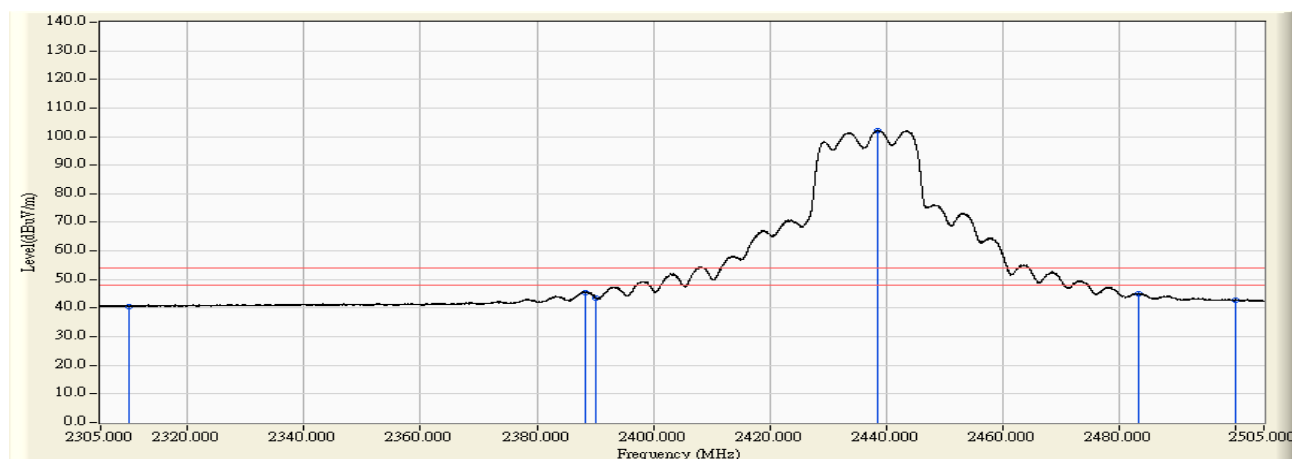


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	13.667	37.639	51.306	-22.694	74.000	PEAK
2		2387.092	14.111	49.190	63.301	-10.699	74.000	PEAK
3		2390.000	14.128	45.142	59.270	-14.730	74.000	PEAK
4	*	2443.326	14.431	97.448	111.879	37.879	74.000	PEAK
5		2483.500	14.658	44.247	58.906	-15.094	74.000	PEAK
6		2500.000	14.751	39.945	54.696	-19.304	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/08/02
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 1: Tx_CDD Mode (802.11 b/g)_ 802.11g_2437MHz

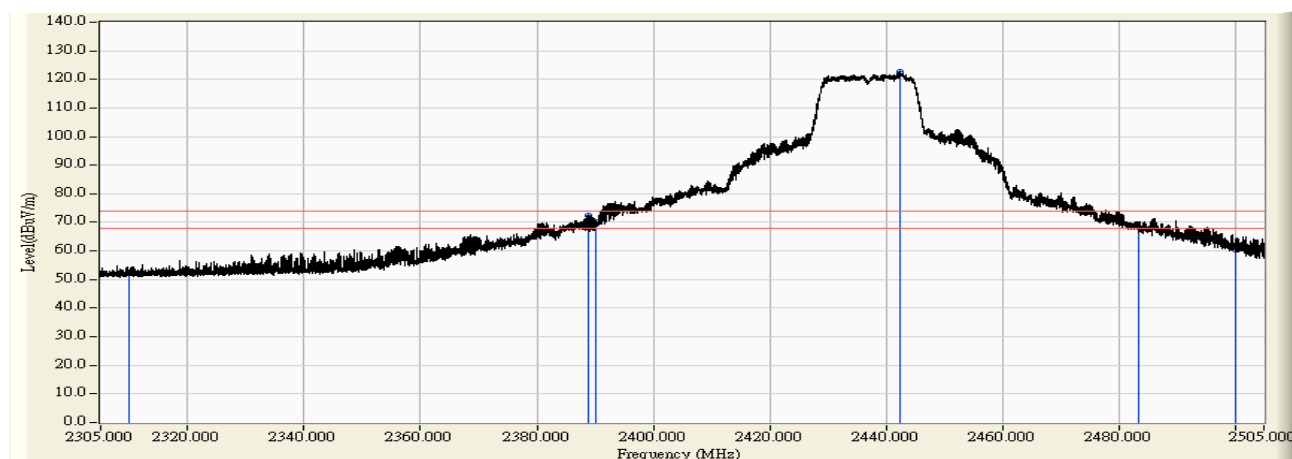


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	13.667	26.993	40.660	-13.340	54.000	AVERAGE
2		2388.252	14.119	31.413	45.531	-8.469	54.000	AVERAGE
3		2390.000	14.128	29.563	43.691	-10.309	54.000	AVERAGE
4	*	2438.507	14.403	87.738	102.142	48.142	54.000	AVERAGE
5		2483.500	14.658	30.390	45.049	-8.951	54.000	AVERAGE
6		2500.000	14.751	28.140	42.891	-11.109	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/08/02
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 1: Tx_CDD Mode (802.11 b/g)_ 802.11g_2437MHz

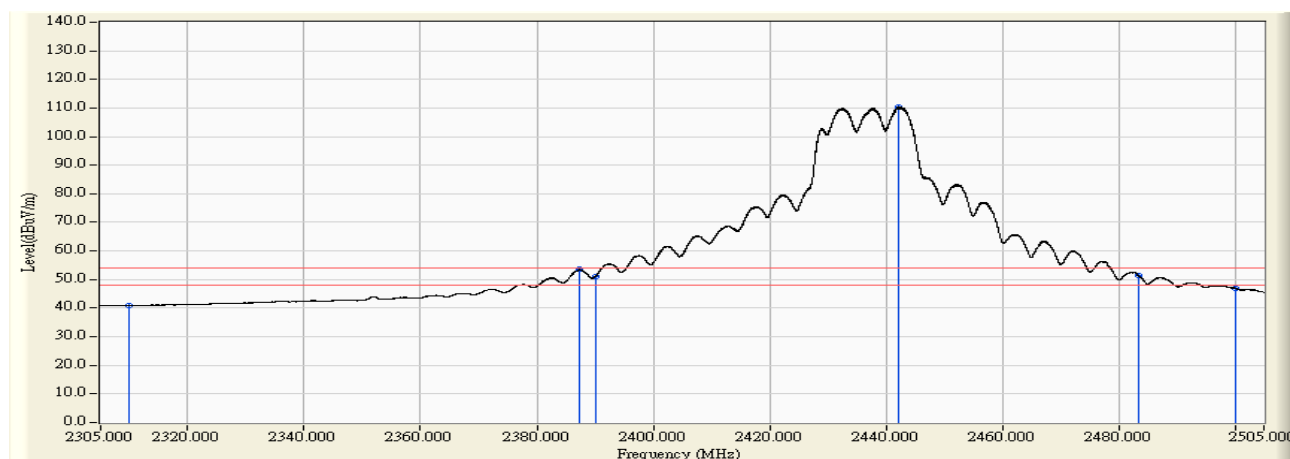


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	13.667	38.444	52.111	-21.889	74.000	PEAK
2		2388.772	14.121	58.266	72.387	-1.613	74.000	PEAK
3		2390.000	14.128	56.147	70.275	-3.725	74.000	PEAK
4	*	2442.406	14.426	108.200	122.626	48.626	74.000	PEAK
5		2483.500	14.658	53.573	68.232	-5.768	74.000	PEAK
6		2500.000	14.751	45.822	60.573	-13.427	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/08/02
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 1: Tx_CDD Mode (802.11 b/g)_ 802.11g_2437MHz

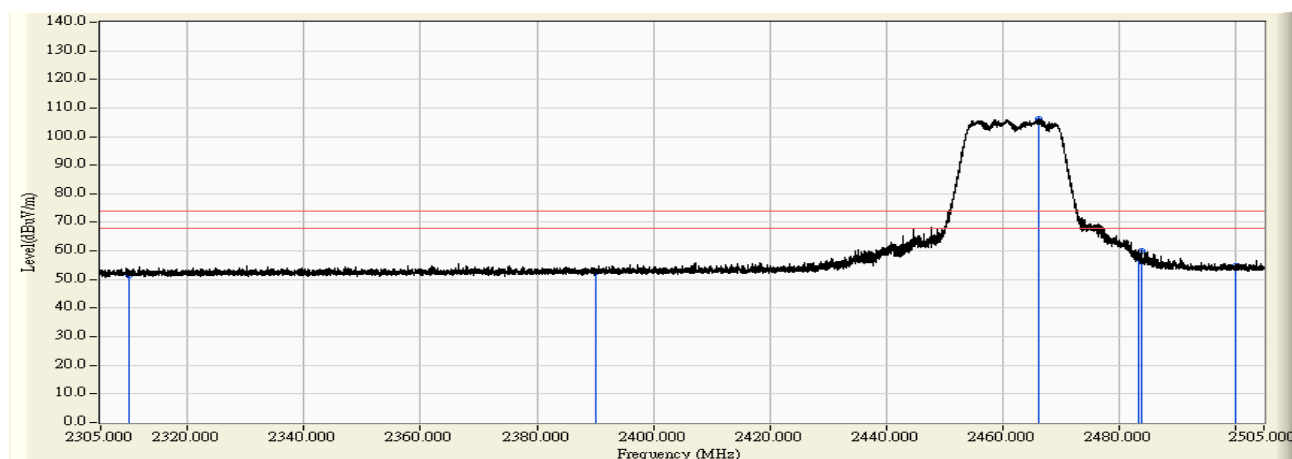


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	13.667	27.364	41.031	-12.969	54.000	AVERAGE
2		2387.332	14.113	39.469	53.582	-0.418	54.000	AVERAGE
3		2390.000	14.128	36.788	50.916	-3.084	54.000	AVERAGE
4	*	2442.226	14.425	96.037	110.462	56.462	54.000	AVERAGE
5		2483.500	14.658	36.670	51.329	-2.671	54.000	AVERAGE
6		2500.000	14.751	32.308	47.059	-6.941	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/08/02
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 1: Tx_CDD Mode (802.11 b/g)_ 802.11g_2462MHz

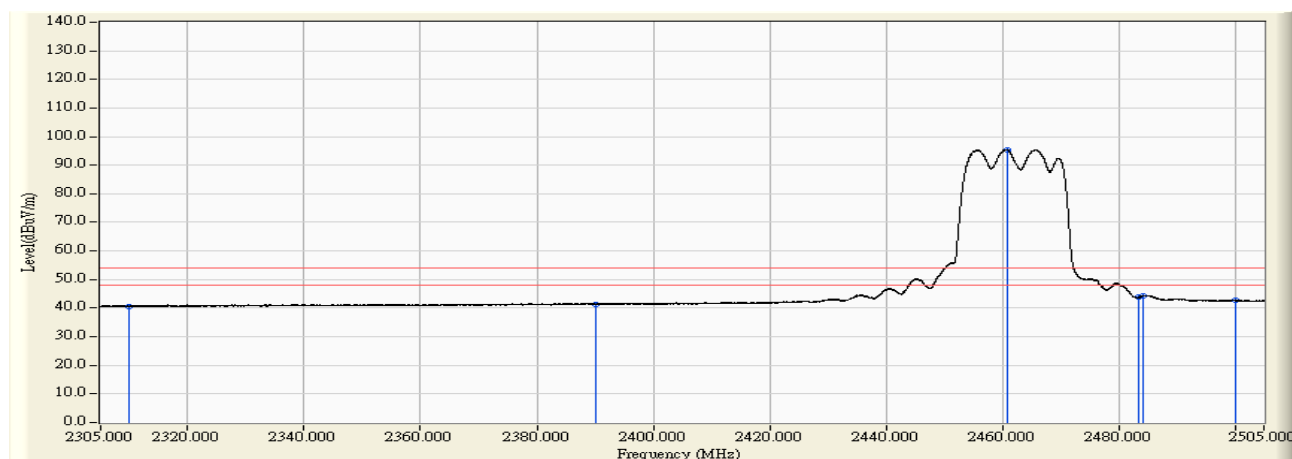


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	13.667	37.670	51.337	-22.663	74.000	PEAK
2	2390.000	14.128	38.489	52.617	-21.383	74.000	PEAK
3	* 2466.224	14.561	91.535	106.096	32.096	74.000	PEAK
4	2483.500	14.658	42.673	57.332	-16.668	74.000	PEAK
5	2484.002	14.662	45.309	59.971	-14.029	74.000	PEAK
6	2500.000	14.751	40.146	54.897	-19.103	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/08/02
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 1: Tx_CDD Mode (802.11 b/g)_ 802.11g_2462MHz

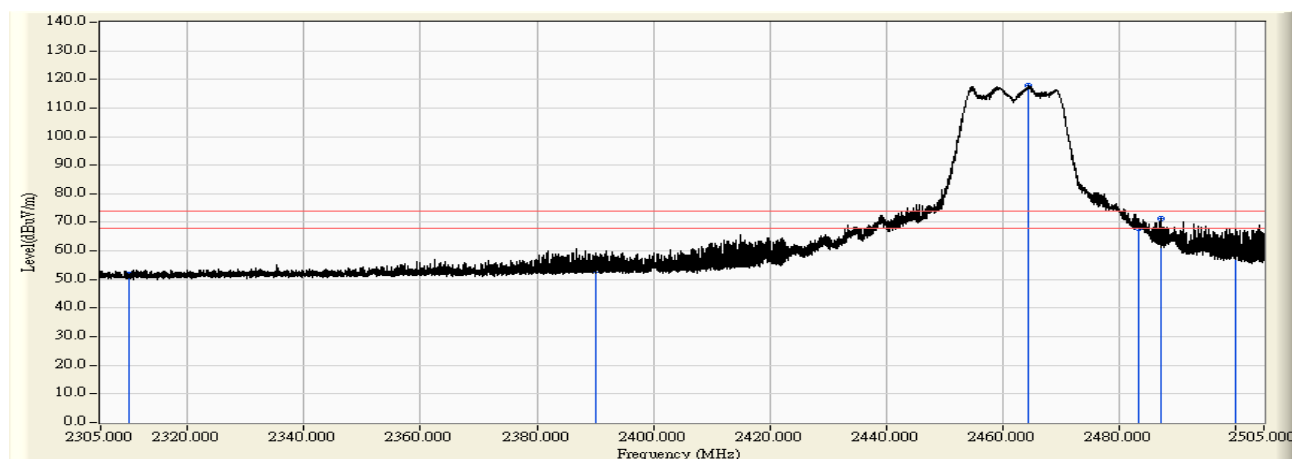


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	13.667	27.008	40.675	-13.325	54.000	AVERAGE
2	2390.000	14.128	27.260	41.388	-12.612	54.000	AVERAGE
3	* 2460.804	14.530	80.868	95.398	41.398	54.000	AVERAGE
4	2483.500	14.658	29.121	43.780	-10.220	54.000	AVERAGE
5	2484.122	14.662	29.563	44.225	-9.775	54.000	AVERAGE
6	2500.000	14.751	27.879	42.630	-11.370	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/08/02
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 1: Tx_CDD Mode (802.11 b/g)_ 802.11g_2462MHz

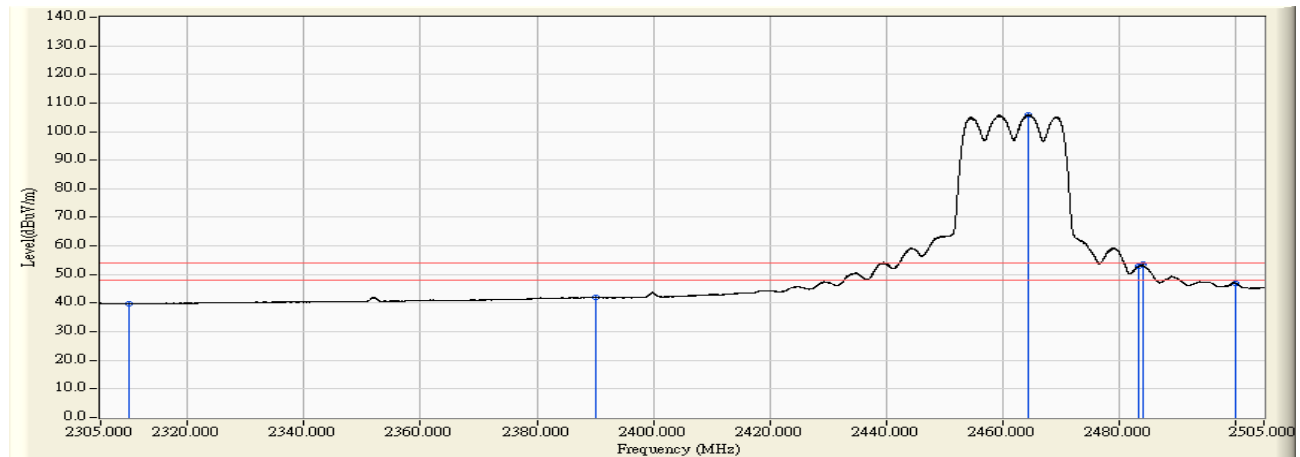


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	13.667	38.299	51.966	-22.034	74.000	PEAK
2	2390.000	14.128	39.136	53.264	-20.736	74.000	PEAK
3	* 2464.544	14.551	103.330	117.881	43.881	74.000	PEAK
4	2483.500	14.658	53.296	67.955	-6.045	74.000	PEAK
5	2487.422	14.681	56.475	71.156	-2.844	74.000	PEAK
6	2500.000	14.751	49.125	63.876	-10.124	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/08/02
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 1: Tx_CDD Mode (802.11 b/g)_ 802.11g_2462MHz

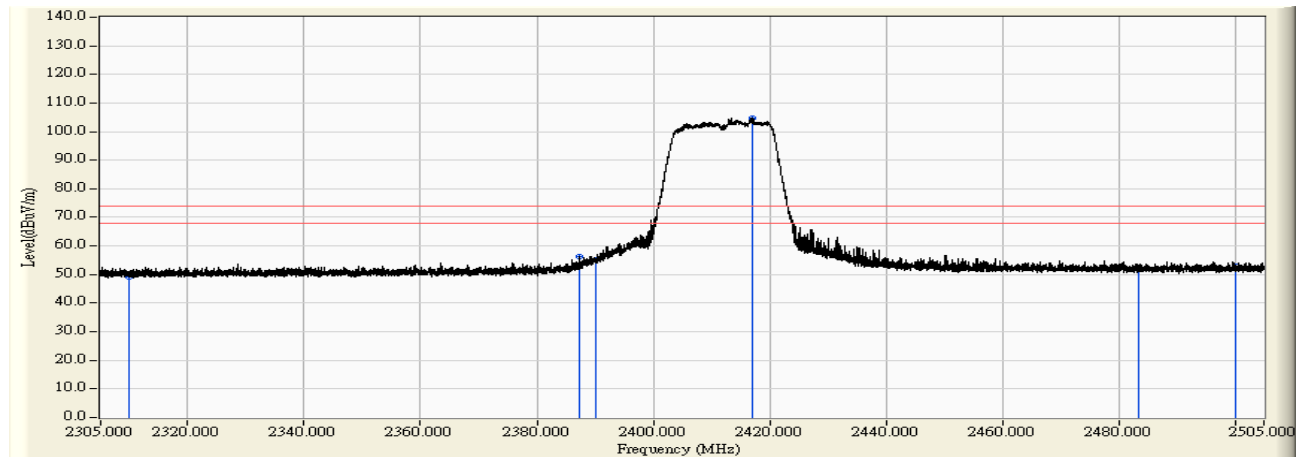


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	13.667	26.245	39.912	-14.088	54.000	AVERAGE
2	2390.000	14.128	27.866	41.994	-12.006	54.000	AVERAGE
3	* 2464.464	14.551	91.367	105.918	51.918	54.000	AVERAGE
4	2483.500	14.658	38.177	52.836	-1.164	54.000	AVERAGE
5	2484.282	14.663	39.033	53.696	-0.304	54.000	AVERAGE
6	2500.000	14.751	32.266	47.017	-6.983	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/08/02
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 2: Tx_MIMO Mode (802.11 n20/n40)_ 802.11n(20M)_2412MHz

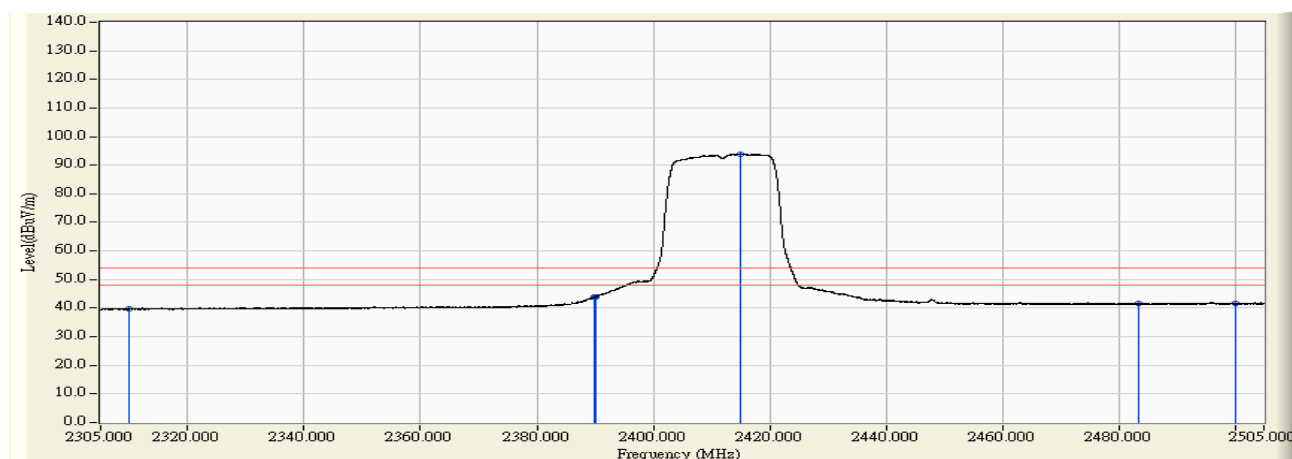


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	13.667	35.646	49.313	-24.687	74.000	PEAK
2		2387.372	14.113	42.308	56.421	-17.579	74.000	PEAK
3		2390.000	14.128	40.883	55.011	-18.989	74.000	PEAK
4	*	2416.969	14.283	90.486	104.768	30.768	74.000	PEAK
5		2483.500	14.658	37.121	51.780	-22.220	74.000	PEAK
6		2500.000	14.751	38.072	52.823	-21.177	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/08/02
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 2: Tx_MIMO Mode (802.11 n20/n40)_ 802.11n(20M)_2412MHz

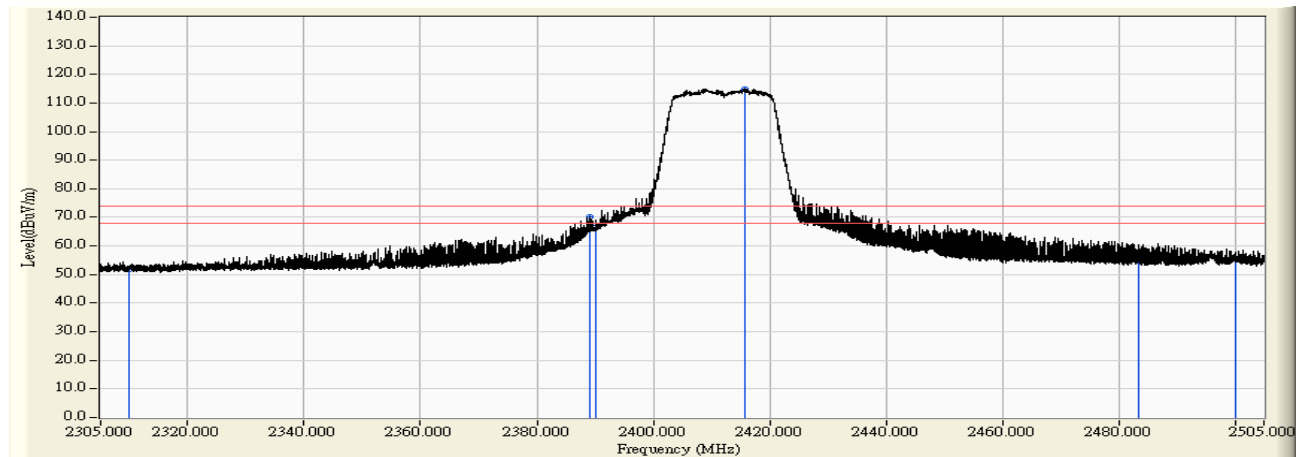


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	13.667	25.984	39.651	-14.349	54.000	AVERAGE
2		2389.991	14.128	29.746	43.874	-10.126	54.000	AVERAGE
3		2390.000	14.128	29.721	43.849	-10.151	54.000	AVERAGE
4	*	2414.889	14.271	79.707	93.977	39.977	54.000	AVERAGE
5		2483.500	14.658	26.891	41.550	-12.450	54.000	AVERAGE
6		2500.000	14.751	26.758	41.509	-12.491	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/08/02
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 2: Tx_MIMO Mode (802.11 n20/n40)_ 802.11n(20M)_2412MHz

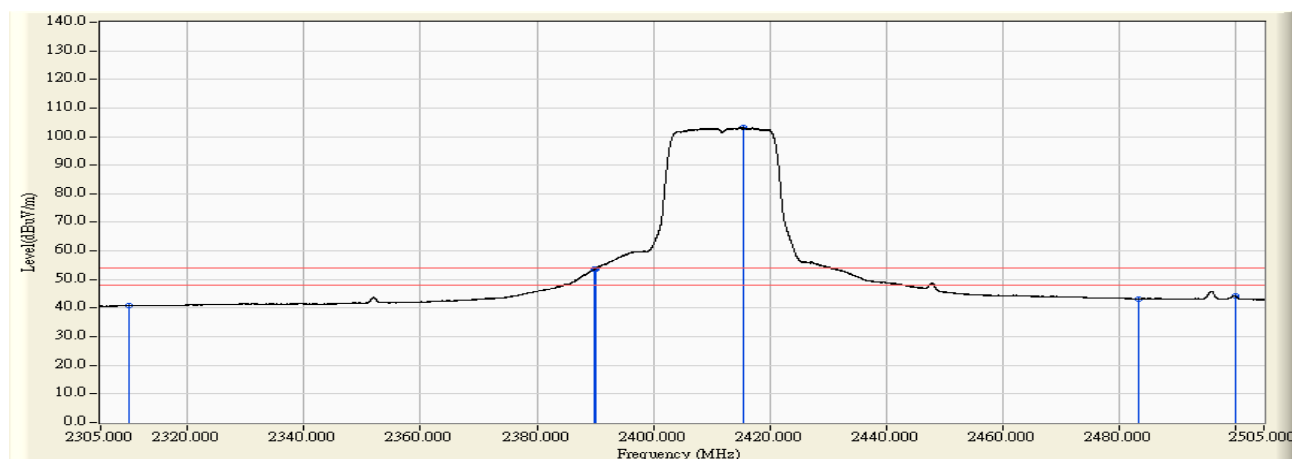


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	13.667	38.266	51.933	-22.067	74.000	PEAK
2		2389.052	14.123	56.089	70.212	-3.788	74.000	PEAK
3		2390.000	14.128	52.149	66.277	-7.723	74.000	PEAK
4	*	2415.729	14.275	100.761	115.036	41.036	74.000	PEAK
5		2483.500	14.658	40.748	55.407	-18.593	74.000	PEAK
6		2500.000	14.751	40.851	55.602	-18.398	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/08/02
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 2: Tx_MIMO Mode (802.11 n20/n40)_ 802.11n(20M)_2412MHz

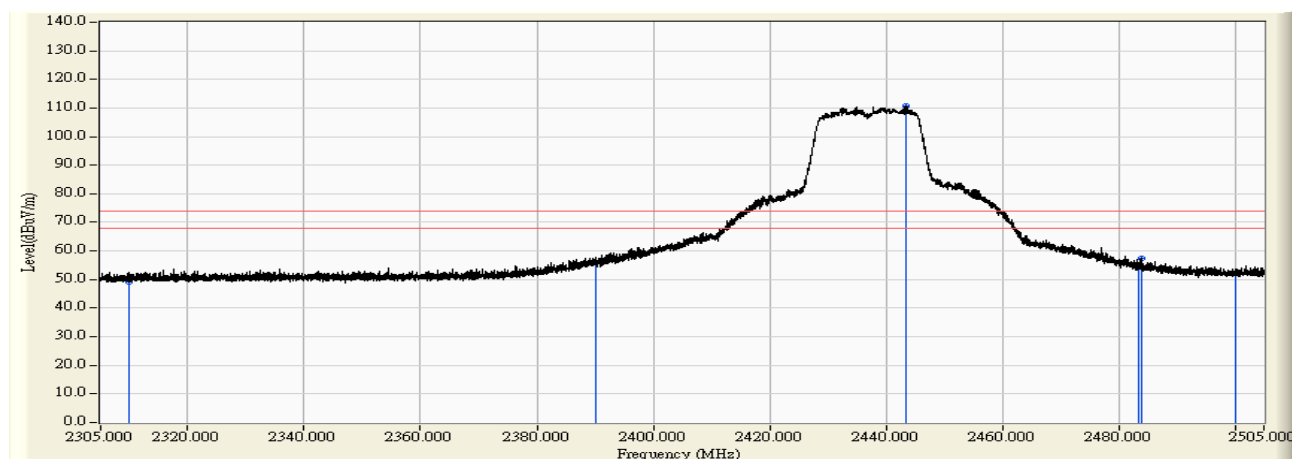


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	13.667	27.178	40.845	-13.155	54.000	AVERAGE
2		2389.971	14.128	39.622	53.750	-0.250	54.000	AVERAGE
3		2390.000	14.128	39.526	53.654	-0.346	54.000	AVERAGE
4	*	2415.549	14.274	88.873	103.147	49.147	54.000	AVERAGE
5		2483.500	14.658	28.590	43.249	-10.751	54.000	AVERAGE
6		2500.000	14.751	29.469	44.220	-9.780	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/08/02
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 2: Tx_MIMO Mode (802.11 n20/n40)_ 802.11n(20M)_2437MHz

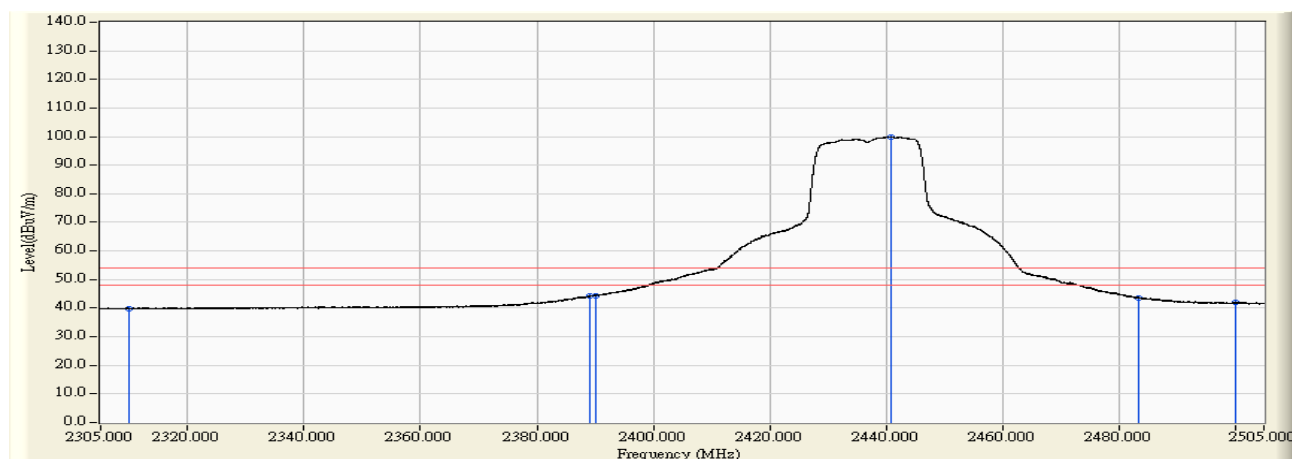


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	13.667	35.440	49.107	-24.893	74.000	PEAK
2	2390.000	14.128	41.852	55.980	-18.020	74.000	PEAK
3	* 2443.446	14.431	96.148	110.580	36.580	74.000	PEAK
4	2483.500	14.658	39.998	54.657	-19.343	74.000	PEAK
5	2483.862	14.661	42.871	57.532	-16.468	74.000	PEAK
6	2500.000	14.751	37.350	52.101	-21.899	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/08/02
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 2: Tx_MIMO Mode (802.11 n20/n40)_ 802.11n(20M)_2437MHz

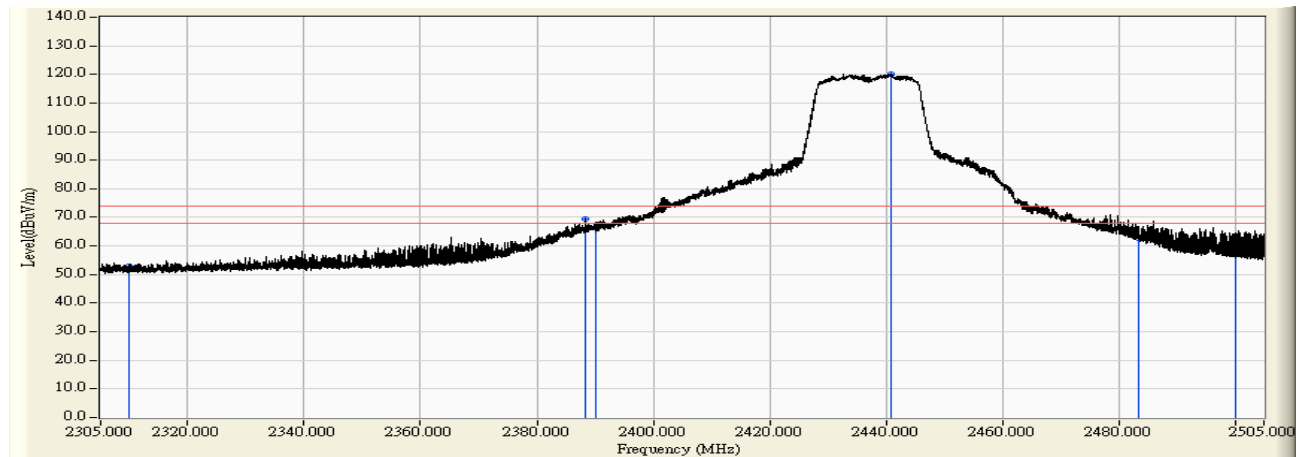


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	13.667	26.165	39.832	-14.168	54.000	AVERAGE
2		2388.992	14.123	30.037	44.159	-9.841	54.000	AVERAGE
3		2390.000	14.128	30.297	44.425	-9.575	54.000	AVERAGE
4	*	2440.926	14.418	85.375	99.793	45.793	54.000	AVERAGE
5		2483.500	14.658	28.987	43.646	-10.354	54.000	AVERAGE
6		2500.000	14.751	27.232	41.983	-12.017	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/08/02
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 2: Tx_MIMO Mode (802.11 n20/n40)_ 802.11n(20M)_2437MHz

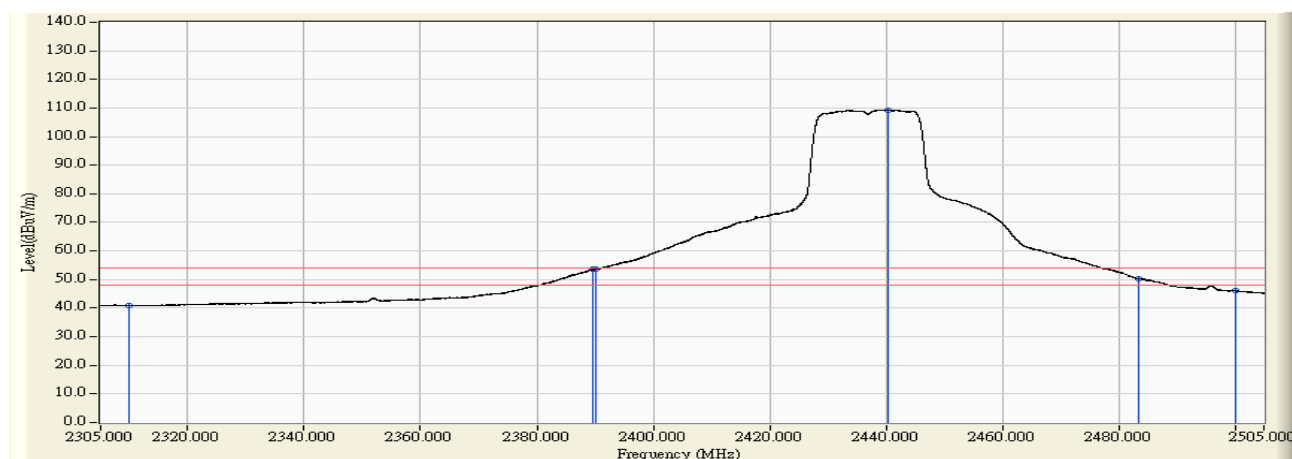


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	13.667	39.434	53.101	-20.899	74.000	PEAK
2		2388.272	14.119	55.195	69.313	-4.687	74.000	PEAK
3		2390.000	14.128	52.145	66.273	-7.727	74.000	PEAK
4	*	2440.786	14.417	105.761	120.178	46.178	74.000	PEAK
5		2483.500	14.658	48.079	62.738	-11.262	74.000	PEAK
6		2500.000	14.751	46.202	60.953	-13.047	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/08/02
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 2: Tx_MIMO Mode (802.11 n20/n40)_ 802.11n(20M)_2437MHz

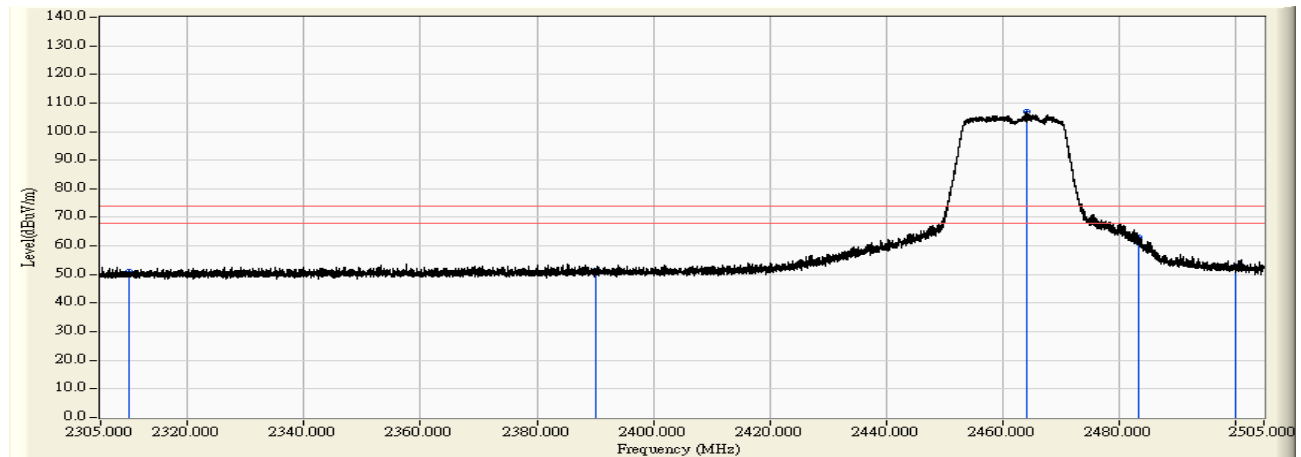


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	13.667	27.298	40.965	-13.035	54.000	AVERAGE
2		2389.731	14.126	39.468	53.595	-0.405	54.000	AVERAGE
3		2390.000	14.128	39.439	53.567	-0.433	54.000	AVERAGE
4	*	2440.426	14.415	94.919	109.334	55.334	54.000	AVERAGE
5		2483.500	14.658	35.658	50.317	-3.683	54.000	AVERAGE
6		2500.000	14.751	31.434	46.185	-7.815	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/08/02
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 2: Tx_MIMO Mode (802.11 n20/n40)_ 802.11n(20M)_2462MHz

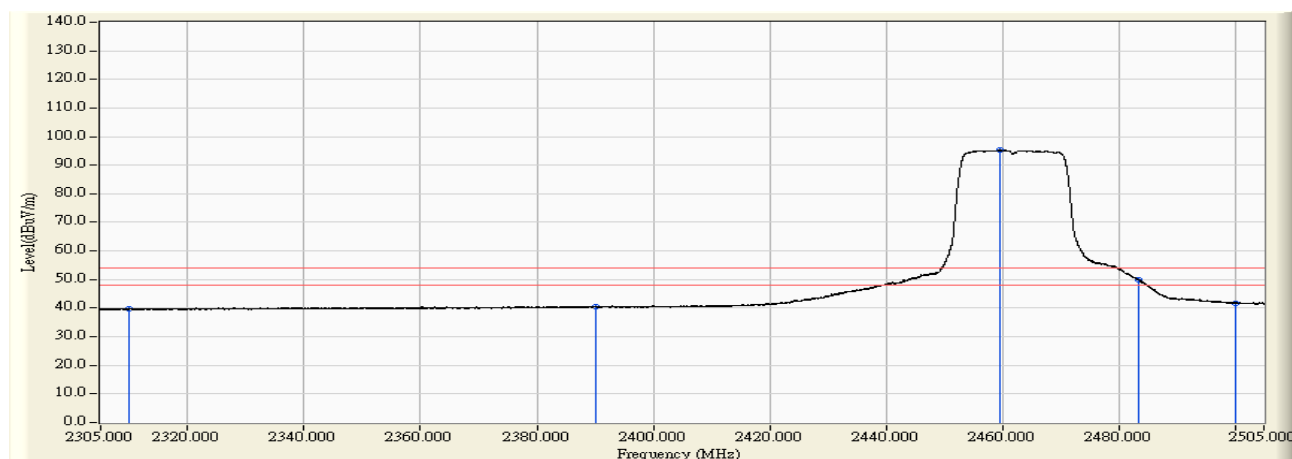


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	13.667	37.412	51.079	-22.921	74.000	PEAK
2	2390.000	14.128	37.206	51.334	-22.666	74.000	PEAK
3	* 2464.104	14.549	92.248	106.797	32.797	74.000	PEAK
4	2483.500	14.658	46.696	61.355	-12.645	74.000	PEAK
5	2483.582	14.659	48.297	62.956	-11.044	74.000	PEAK
6	2500.000	14.751	38.312	53.063	-20.937	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/08/02
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 2: Tx_MIMO Mode (802.11 n20/n40)_ 802.11n(20M)_2462MHz

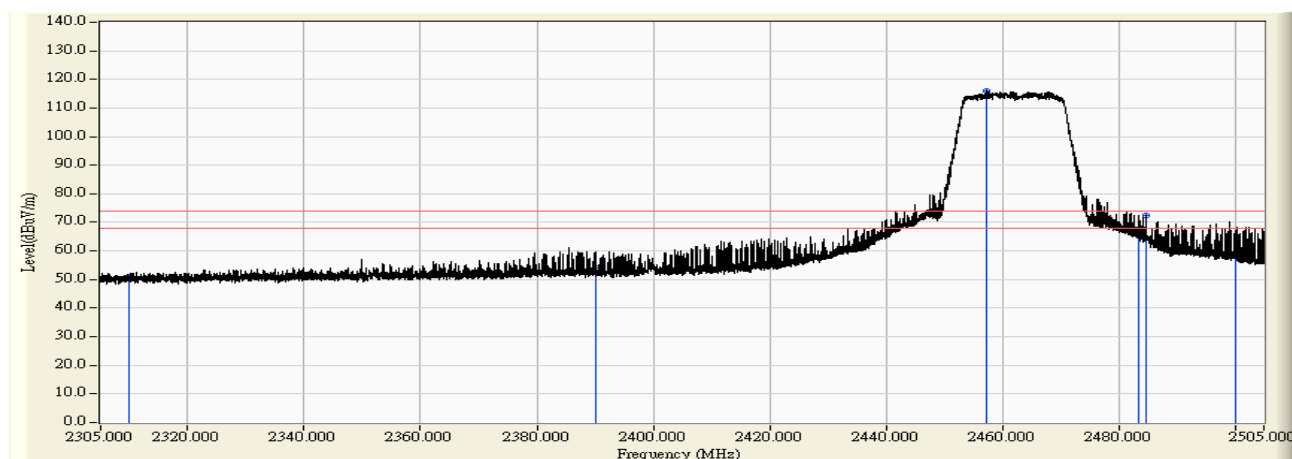


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	13.667	25.973	39.640	-14.360	54.000	AVERAGE
2	2390.000	14.128	26.428	40.556	-13.444	54.000	AVERAGE
3	* 2459.524	14.523	80.742	95.265	41.265	54.000	AVERAGE
4	2483.500	14.658	35.382	50.041	-3.959	54.000	AVERAGE
5	2483.522	14.658	35.396	50.055	-3.945	54.000	AVERAGE
6	2500.000	14.751	27.090	41.841	-12.159	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/08/02
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 2: Tx_MIMO Mode (802.11 n20/n40)_ 802.11n(20M)_2462MHz

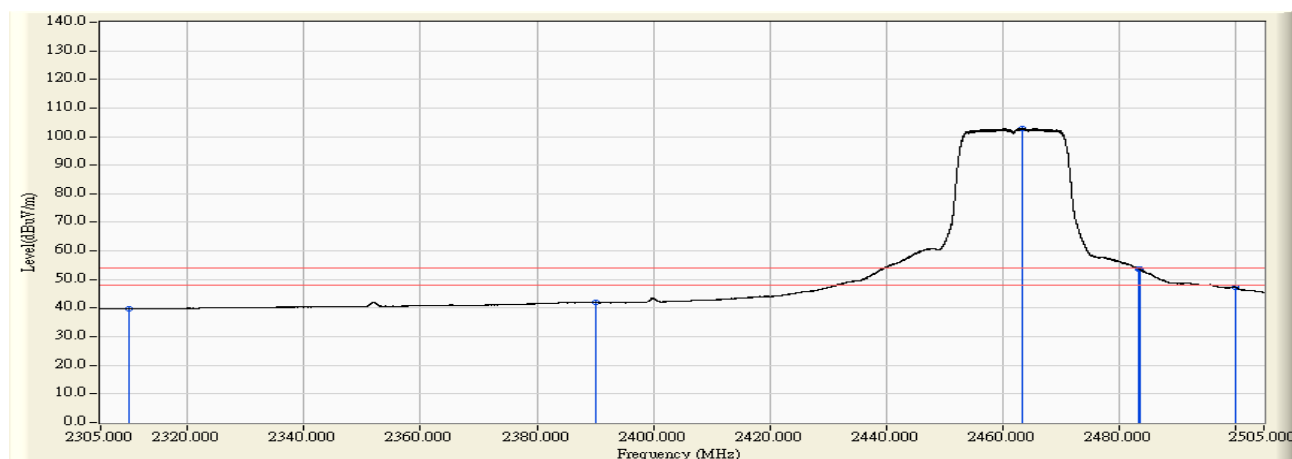


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	13.667	37.478	51.145	-22.855	74.000	PEAK
2	2390.000	14.128	39.934	54.062	-19.938	74.000	PEAK
3	* 2457.325	14.511	101.459	115.970	41.970	74.000	PEAK
4	2483.500	14.658	50.634	65.293	-8.707	74.000	PEAK
5	2484.762	14.666	57.821	72.487	-1.513	74.000	PEAK
6	2500.000	14.751	44.553	59.304	-14.696	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/08/02
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 2: Tx_MIMO Mode (802.11 n20/n40)_ 802.11n(20M)_2462MHz

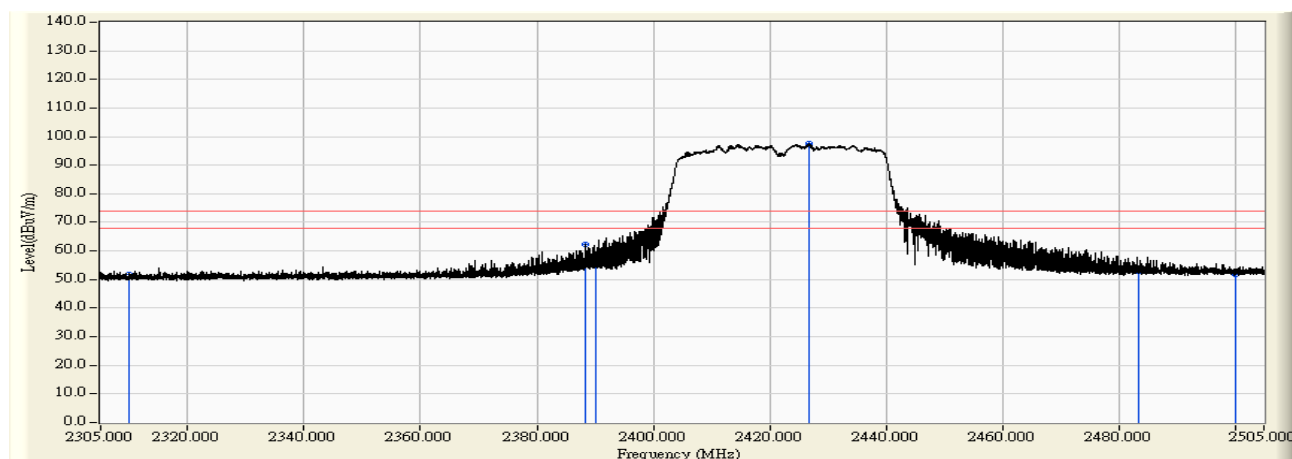


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	13.667	26.074	39.741	-14.259	54.000	AVERAGE
2	2390.000	14.128	27.799	41.927	-12.073	54.000	AVERAGE
3	* 2463.344	14.545	88.480	103.025	49.025	54.000	AVERAGE
4	2483.500	14.658	38.988	53.647	-0.353	54.000	AVERAGE
5	2483.642	14.660	38.995	53.654	-0.346	54.000	AVERAGE
6	2500.000	14.751	32.622	47.373	-6.627	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/08/02
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 2: Tx_MIMO Mode (802.11 n20/n40)_ 802.11n(40M)_2422MHz

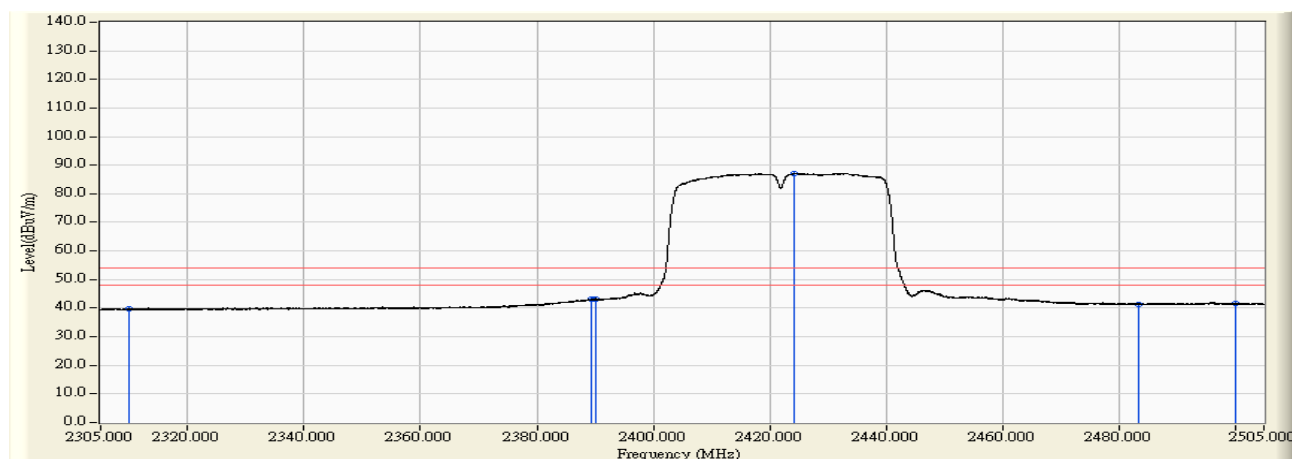


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	13.667	38.030	51.697	-22.303	74.000	PEAK
2		2388.432	14.119	48.258	62.377	-11.623	74.000	PEAK
3		2390.000	14.128	42.395	56.523	-17.477	74.000	PEAK
4	*	2426.828	14.337	83.080	97.418	23.418	74.000	PEAK
5		2483.500	14.658	38.099	52.758	-21.242	74.000	PEAK
6		2500.000	14.751	37.164	51.915	-22.085	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/08/02
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 2: Tx_MIMO Mode (802.11 n20/n40)_ 802.11n(40M)_2422MHz

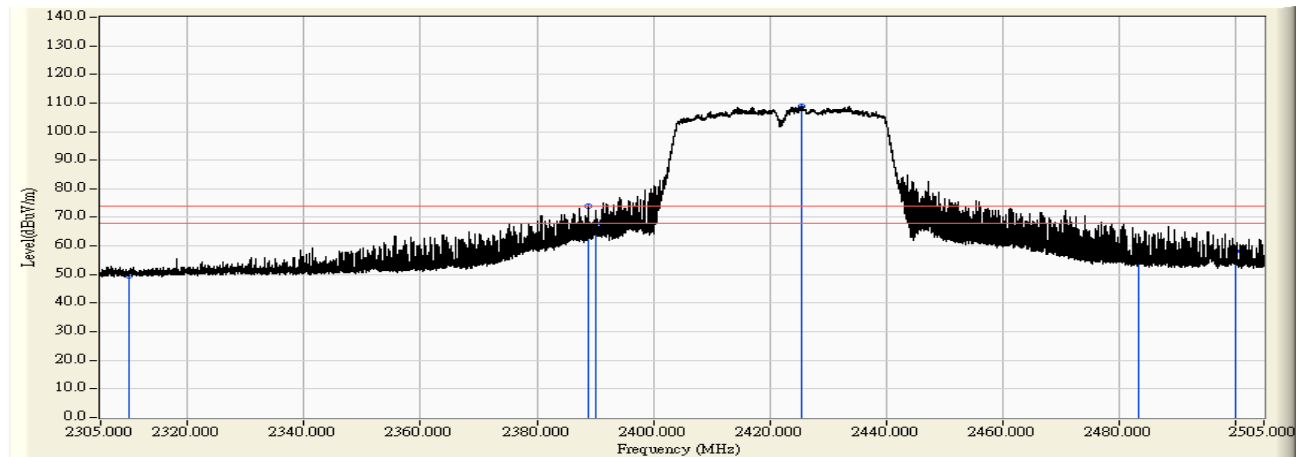


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	13.667	25.950	39.617	-14.383	54.000	AVERAGE
2		2389.232	14.124	28.914	43.038	-10.962	54.000	AVERAGE
3		2390.000	14.128	28.994	43.122	-10.878	54.000	AVERAGE
4	*	2424.308	14.323	72.939	87.262	33.262	54.000	AVERAGE
5		2483.500	14.658	26.660	41.319	-12.681	54.000	AVERAGE
6		2500.000	14.751	26.778	41.529	-12.471	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/08/02
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 2: Tx_MIMO Mode (802.11 n20/n40)_ 802.11n(40M)_2422MHz

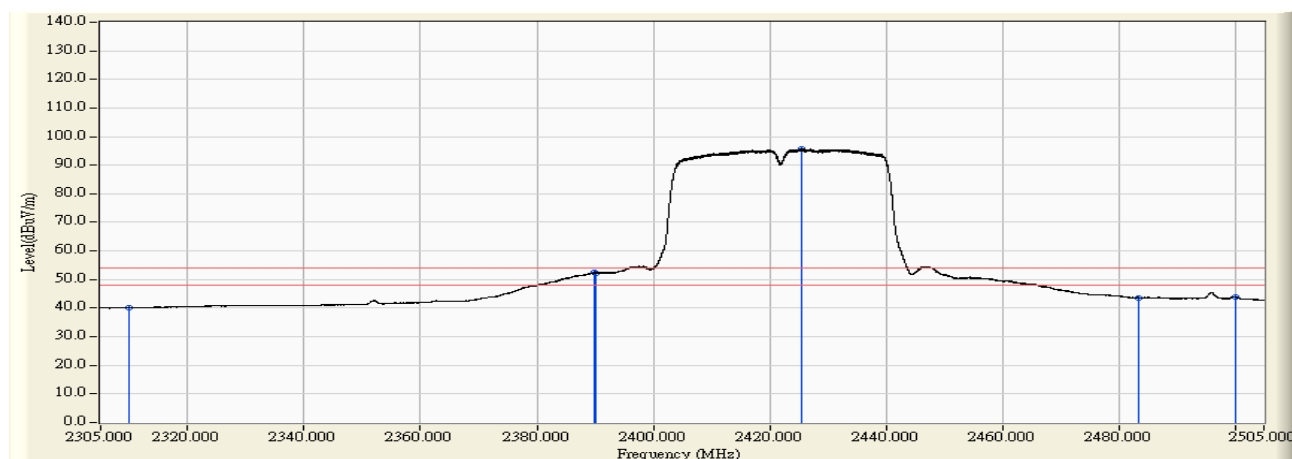


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	13.667	36.030	49.697	-24.303	74.000	PEAK
2		2388.832	14.121	59.657	73.778	-0.222	74.000	PEAK
3		2390.000	14.128	53.807	67.935	-6.065	74.000	PEAK
4	*	2425.488	14.330	94.656	108.986	34.986	74.000	PEAK
5		2483.500	14.658	41.625	56.284	-17.716	74.000	PEAK
6		2500.000	14.751	43.561	58.312	-15.688	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/08/02
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 2: Tx_MIMO Mode (802.11 n20/n40)_ 802.11n(40M)_2422MHz

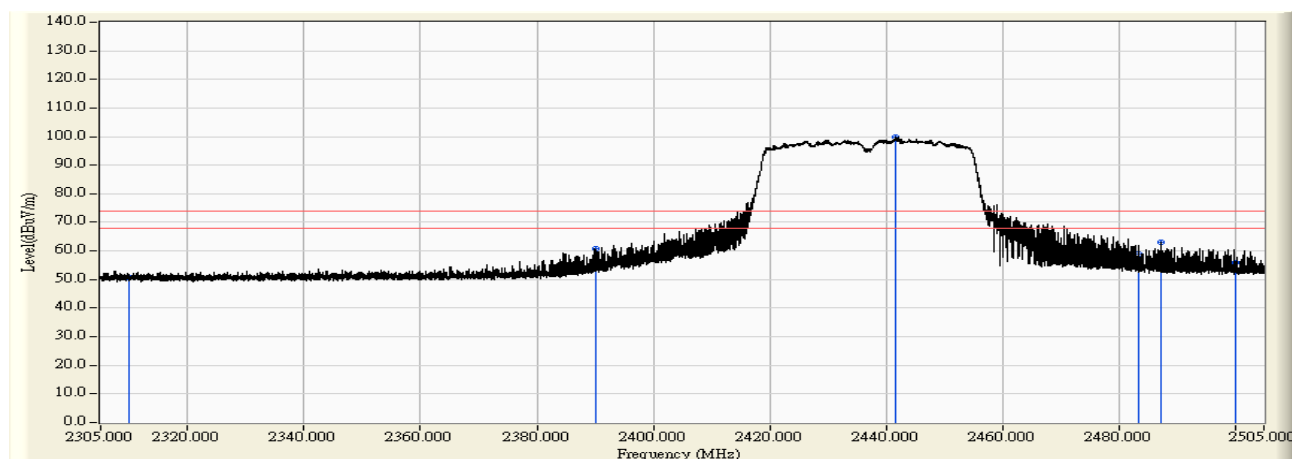


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	13.667	26.515	40.182	-13.818	54.000	AVERAGE
2		2389.951	14.128	38.345	52.473	-1.527	54.000	AVERAGE
3		2390.000	14.128	38.019	52.147	-1.853	54.000	AVERAGE
4	*	2425.568	14.330	81.260	95.591	41.591	54.000	AVERAGE
5		2483.500	14.658	28.946	43.605	-10.395	54.000	AVERAGE
6		2500.000	14.751	29.239	43.990	-10.010	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/08/02
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 2: Tx_MIMO Mode (802.11 n20/n40)_ 802.11n(40M)_2437MHz

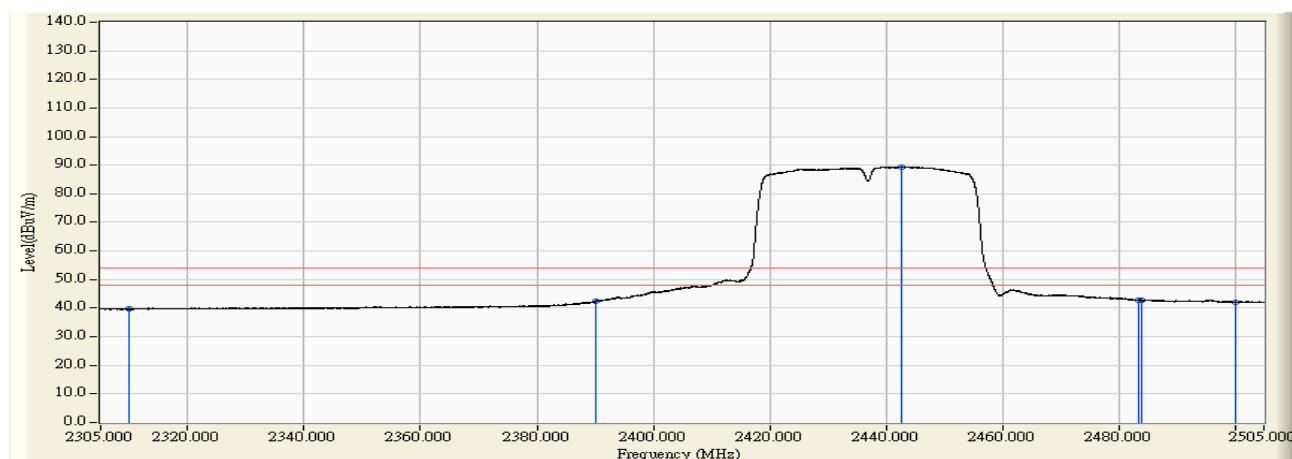


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	13.667	36.858	50.525	-23.475	74.000	PEAK
2	2390.000	14.128	46.595	60.723	-13.277	74.000	PEAK
3	* 2441.606	14.422	85.320	99.741	25.741	74.000	PEAK
4	2483.500	14.658	44.283	58.942	-15.058	74.000	PEAK
5	2487.422	14.681	48.197	62.878	-11.122	74.000	PEAK
6	2500.000	14.751	41.280	56.031	-17.969	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/08/02
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 2: Tx_MIMO Mode (802.11 n20/n40)_ 802.11n(40M)_2437MHz

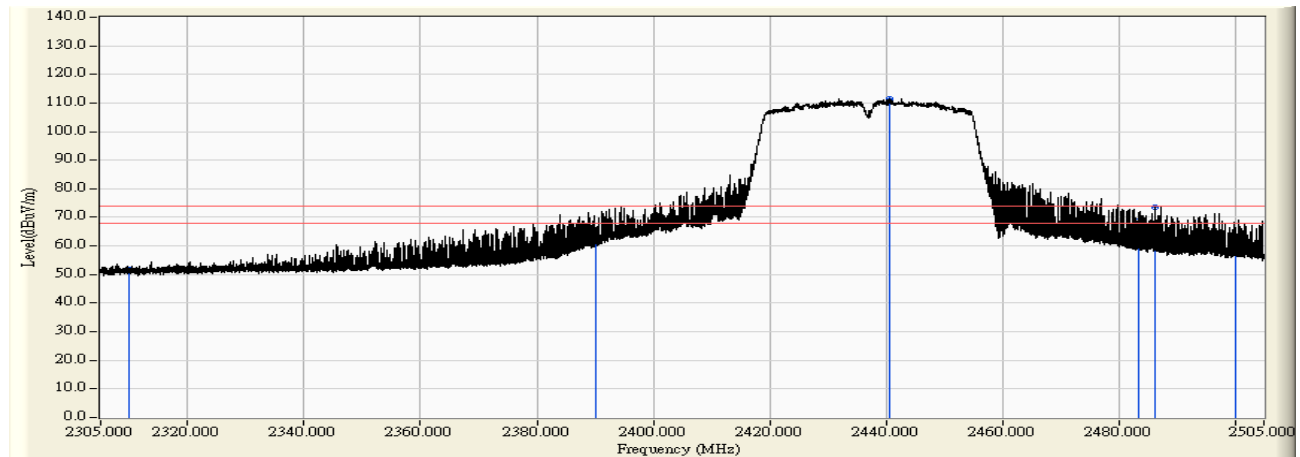


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	13.667	26.063	39.730	-14.270	54.000	AVERAGE
2	2390.000	14.128	28.132	42.260	-11.740	54.000	AVERAGE
3	* 2442.586	14.427	74.991	89.418	35.418	54.000	AVERAGE
4	2483.500	14.658	28.176	42.835	-11.165	54.000	AVERAGE
5	2483.942	14.661	28.215	42.876	-11.124	54.000	AVERAGE
6	2500.000	14.751	27.370	42.121	-11.879	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/08/02
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 2: Tx_MIMO Mode (802.11 n20/n40)_ 802.11n(40M)_2437MHz

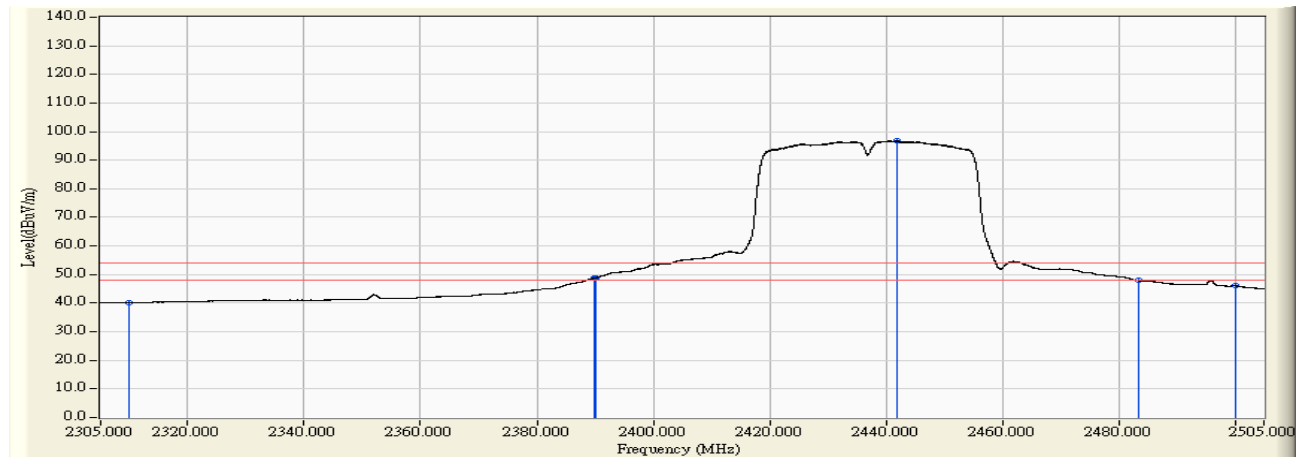


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	13.667	38.217	51.884	-22.116	74.000	PEAK
2	2390.000	14.128	47.101	61.229	-12.771	74.000	PEAK
3	* 2440.706	14.416	97.106	111.522	37.522	74.000	PEAK
4	2483.500	14.658	54.092	68.751	-5.249	74.000	PEAK
5	2486.322	14.674	58.983	73.658	-0.342	74.000	PEAK
6	2500.000	14.751	43.269	58.020	-15.980	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/08/02
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 2: Tx_MIMO Mode (802.11 n20/n40)_ 802.11n(40M)_2437MHz

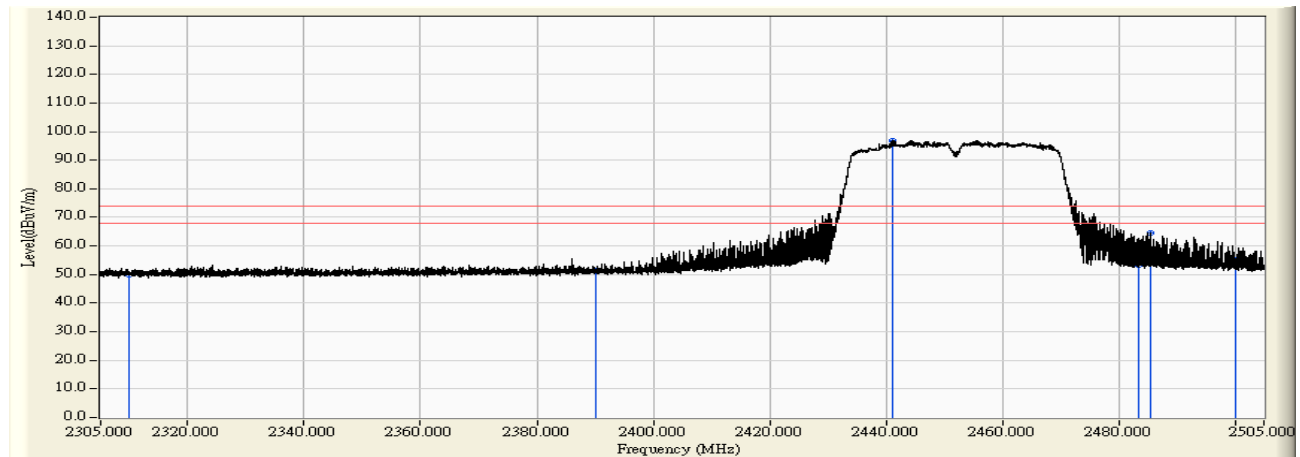


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	13.667	26.597	40.264	-13.736	54.000	AVERAGE
2		2389.991	14.128	34.709	48.837	-5.163	54.000	AVERAGE
3		2390.000	14.128	34.709	48.837	-5.163	54.000	AVERAGE
4	*	2441.806	14.422	82.286	96.709	42.709	54.000	AVERAGE
5		2483.500	14.658	33.237	47.896	-6.104	54.000	AVERAGE
6		2500.000	14.751	31.354	46.105	-7.895	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/08/02
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 2: Tx_MIMO Mode (802.11 n20/n40)_ 802.11n(40M)_2452MHz

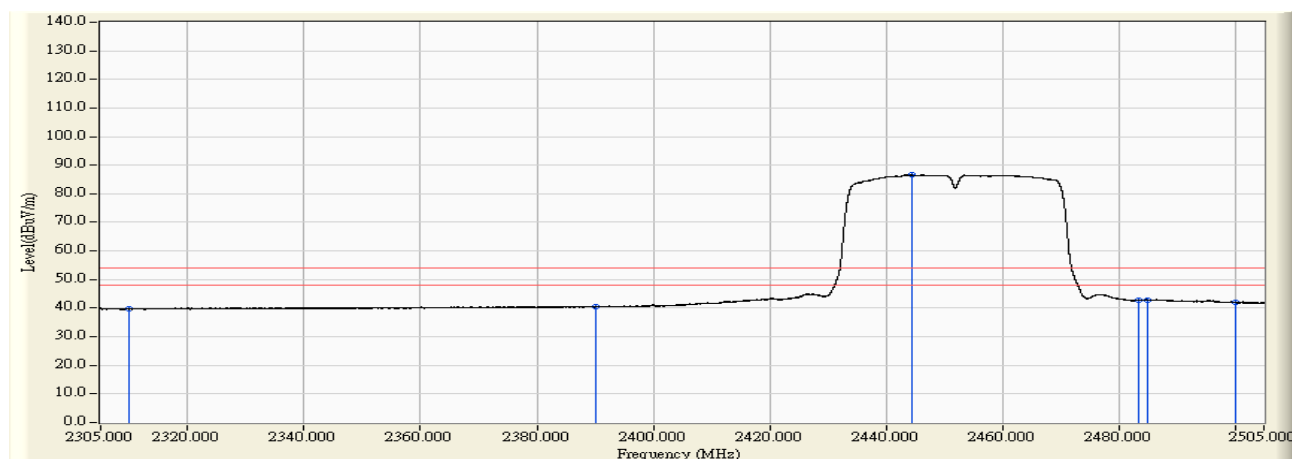


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	13.667	36.237	49.904	-24.096	74.000	PEAK
2	2390.000	14.128	37.120	51.248	-22.752	74.000	PEAK
3	* 2441.206	14.419	82.597	97.016	23.016	74.000	PEAK
4	2483.500	14.658	38.462	53.121	-20.879	74.000	PEAK
5	2485.462	14.670	49.905	64.575	-9.425	74.000	PEAK
6	2500.000	14.751	40.550	55.301	-18.699	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/08/02
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 2: Tx_MIMO Mode (802.11 n20/n40)_ 802.11n(40M)_2452MHz

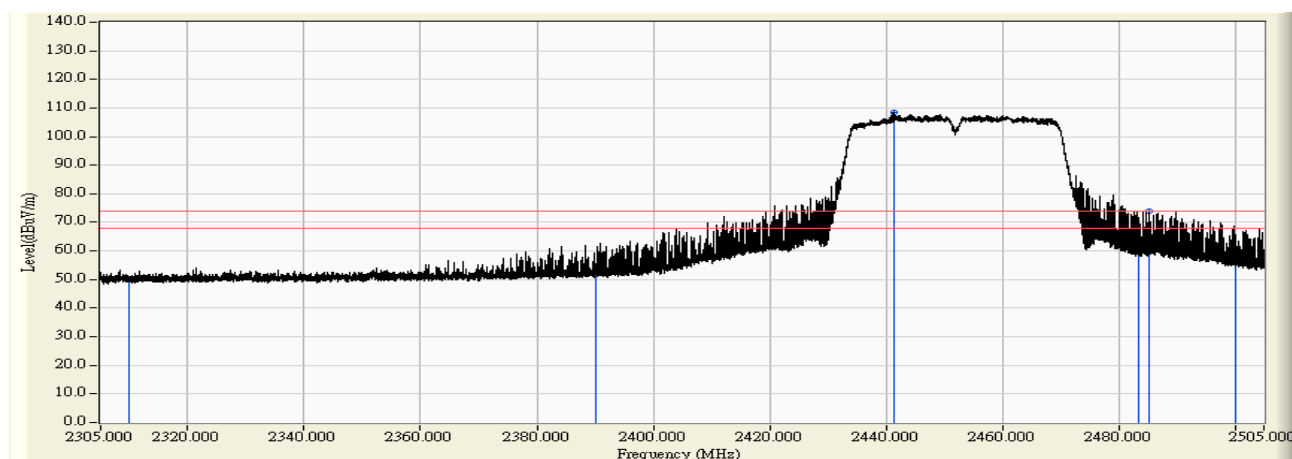


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	13.667	26.105	39.772	-14.228	54.000	AVERAGE
2	2390.000	14.128	26.382	40.510	-13.490	54.000	AVERAGE
3	* 2444.606	14.438	72.176	86.614	32.614	54.000	AVERAGE
4	2483.500	14.658	28.044	42.703	-11.297	54.000	AVERAGE
5	2484.882	14.667	28.248	42.915	-11.085	54.000	AVERAGE
6	2500.000	14.751	27.200	41.951	-12.049	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/08/02
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 2: Tx_MIMO Mode (802.11 n20/n40)_ 802.11n(40M)_2452MHz

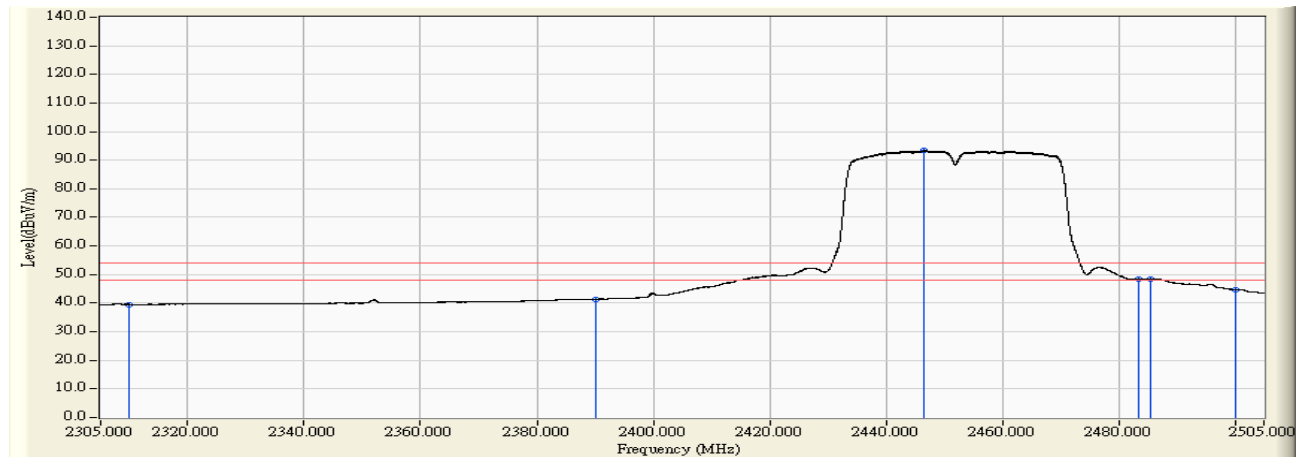


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	13.667	36.367	50.034	-23.966	74.000	PEAK
2	2390.000	14.128	38.616	52.744	-21.256	74.000	PEAK
3	* 2441.346	14.419	93.887	108.307	34.307	74.000	PEAK
4	2483.500	14.658	45.811	60.470	-13.530	74.000	PEAK
5	2485.262	14.669	59.133	73.802	-0.198	74.000	PEAK
6	2500.000	14.751	41.953	56.704	-17.296	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/08/02
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP	Note : Mode 2: Tx_MIMO Mode (802.11 n20/n40)_ 802.11n(40M)_2452MHz



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	13.667	25.894	39.561	-14.439	54.000	AVERAGE
2	2390.000	14.128	27.243	41.371	-12.629	54.000	AVERAGE
3	* 2446.566	14.450	78.922	93.372	39.372	54.000	AVERAGE
4	2483.500	14.658	33.631	48.290	-5.710	54.000	AVERAGE
5	2485.402	14.670	33.855	48.524	-5.476	54.000	AVERAGE
6	2500.000	14.751	29.929	44.680	-9.320	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

7. DTS Bandwidth

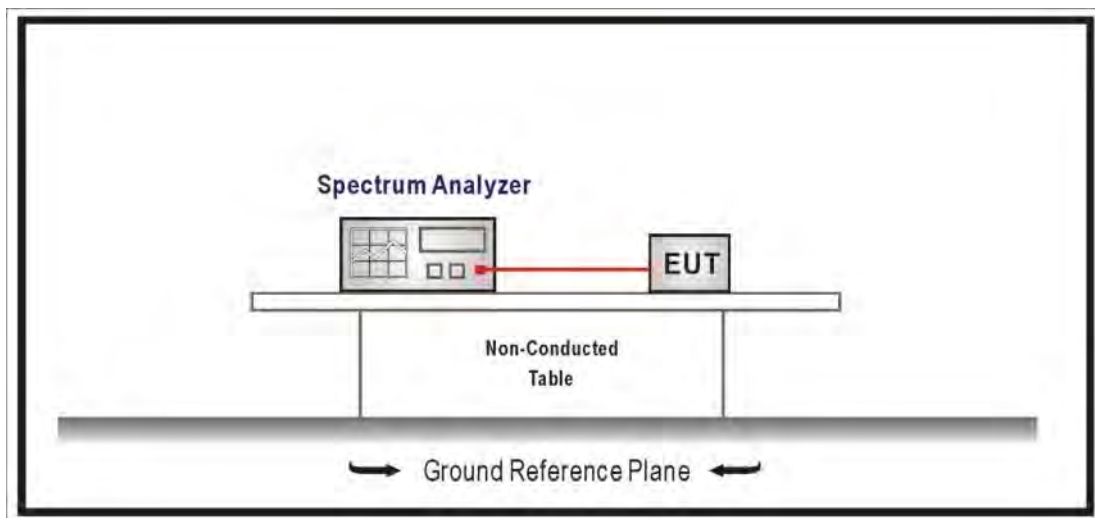
7.1. Test Equipment

The following test equipments are used during the test:

DTS Bandwidth / SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal & Spectrum Analyzer	R&S	FSV40	101049	2017/01/23	2018/01/22
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2017/03/13	2018/03/12
Spectrum Analyzer	Agilent	N9010A	US47140172	2017/07/26	2018/07/25

7.2. Test Setup



7.3. Test Procedures

The EUT was setup according to ANSI C63.10: 2013; tested procedure section 8.1 of KDB558074 D01 V04 for compliance to FCC 47CFR 15.247 requirements. Set RBW = 100KHz, Set the VBW $\geq 3 \times$ RBW, Sweep Time=Auto, Set Peak Detector.

7.4. Limits

The 6 dB bandwidth must be greater than 500 kHz.

7.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2015

7.6. Uncertainty

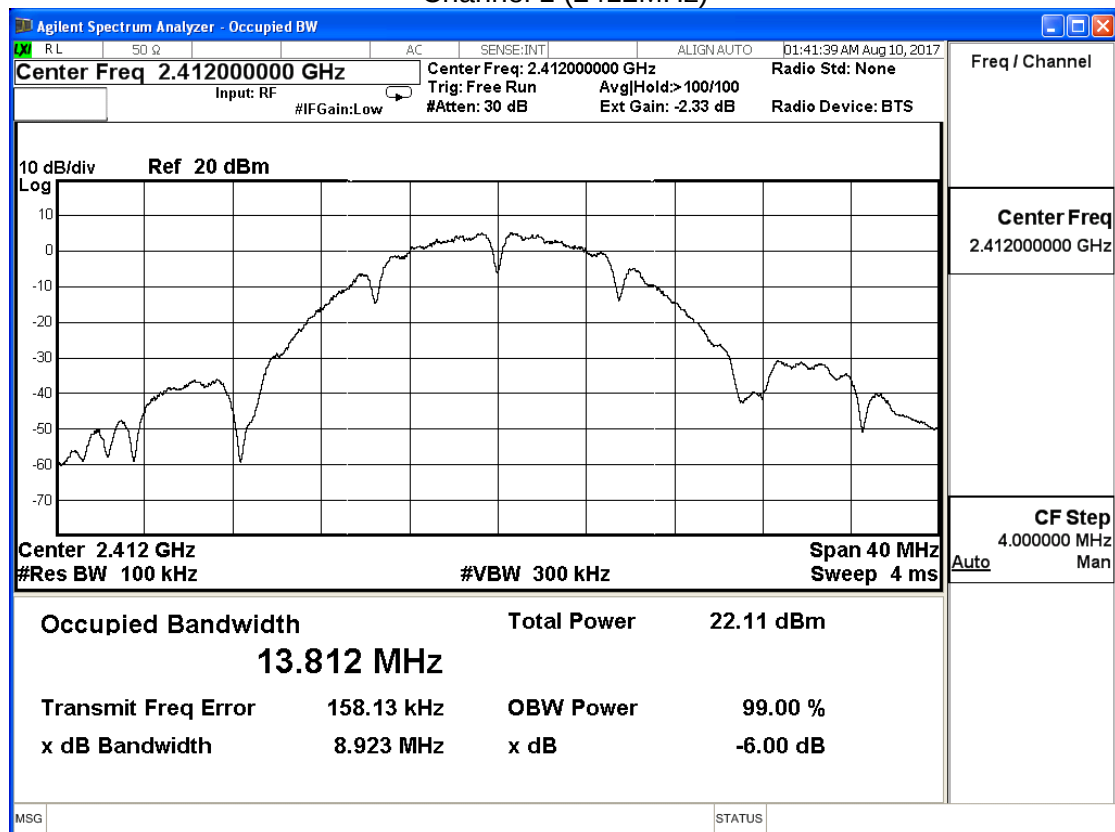
The measurement uncertainty is defined as $\pm 150\text{Hz}$

7.7. Test Result

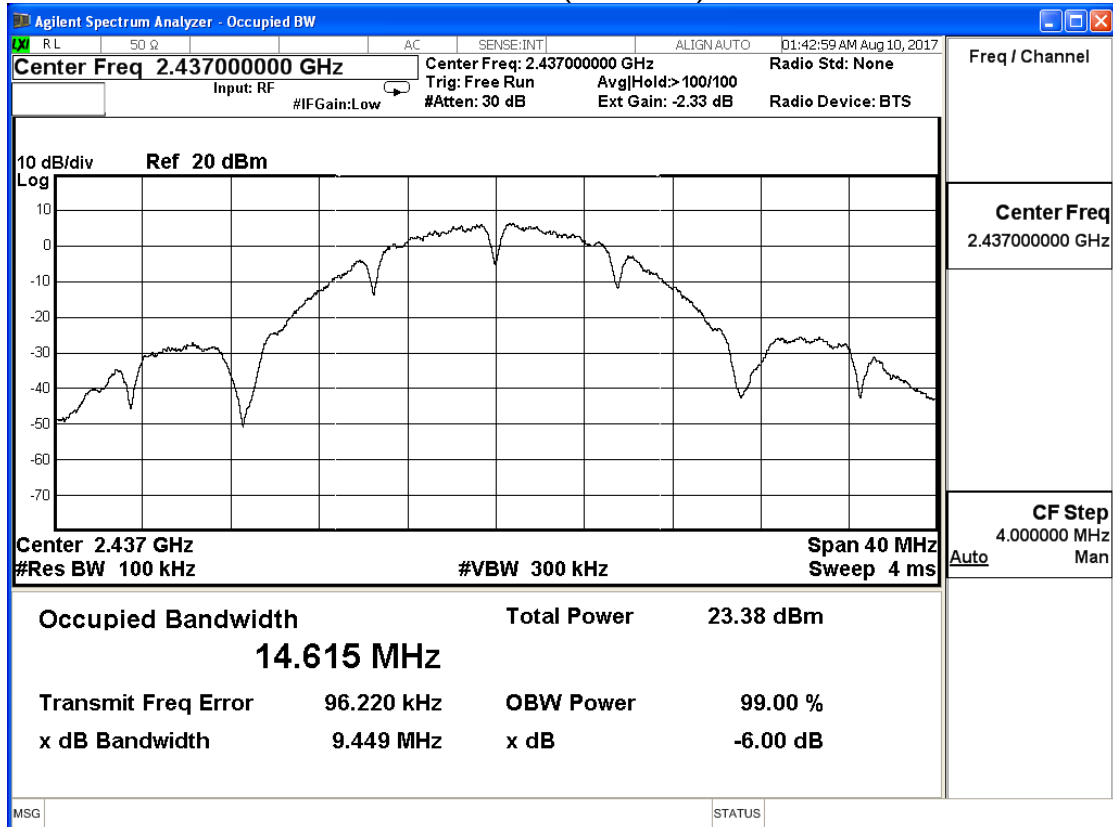
Product	Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Tx_CDD Mode (802.11 b/g)		
Date of Test	2017/08/10	Test Site	SR10-H

802.11 b (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
1	2412	8.923	≥ 0.5	Pass
6	2437	9.449	≥ 0.5	Pass
11	2462	8.625	≥ 0.5	Pass

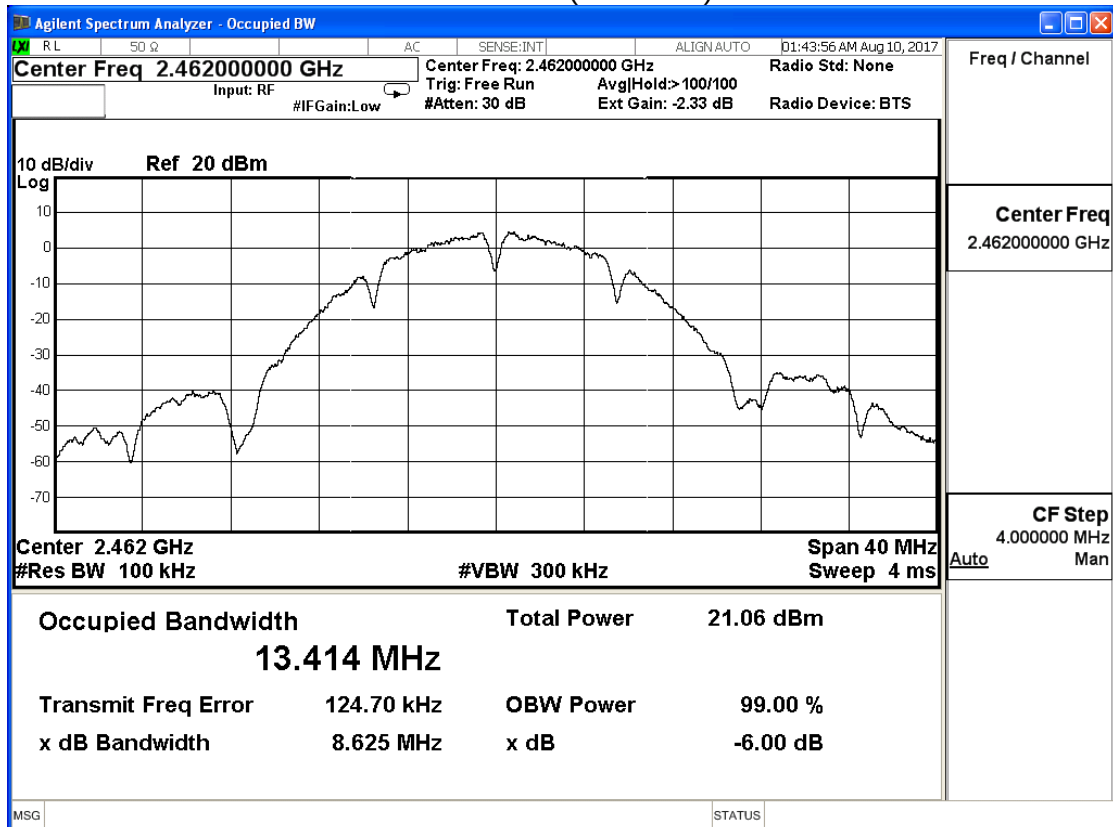
Channel 1 (2412MHz)



Channel 6 (2437MHz)



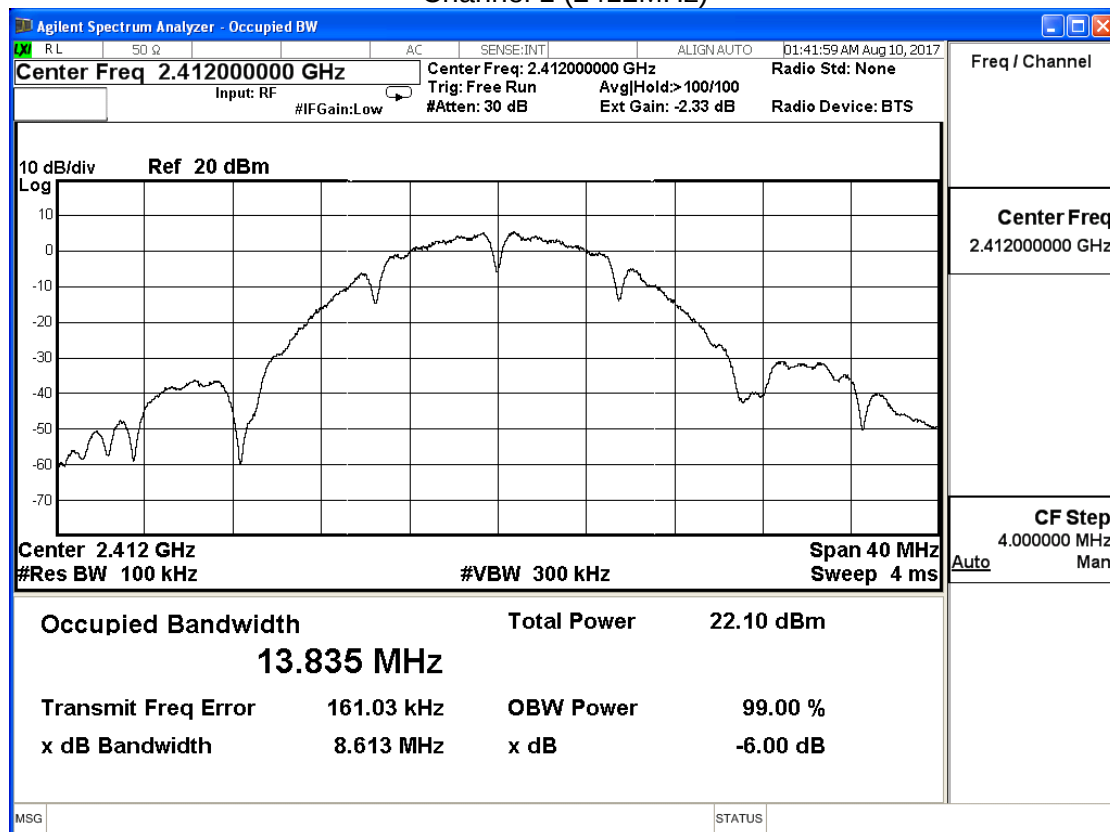
Channel 11 (2462MHz)



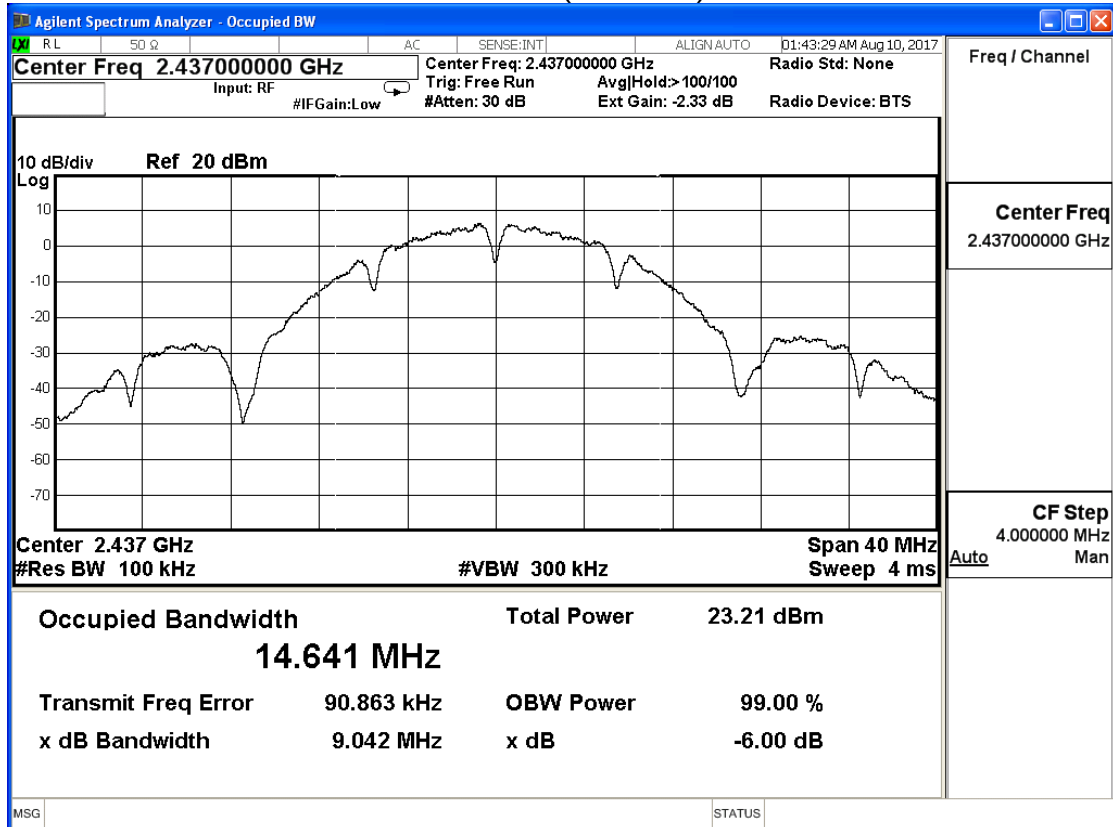
Product	Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Tx_CDD Mode (802.11 b/g)		
Date of Test	2017/08/10	Test Site	SR10-H

802.11 b (ANT 1)				
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
1	2412	8.613	≥ 0.5	Pass
6	2437	9.042	≥ 0.5	Pass
11	2462	8.154	≥ 0.5	Pass

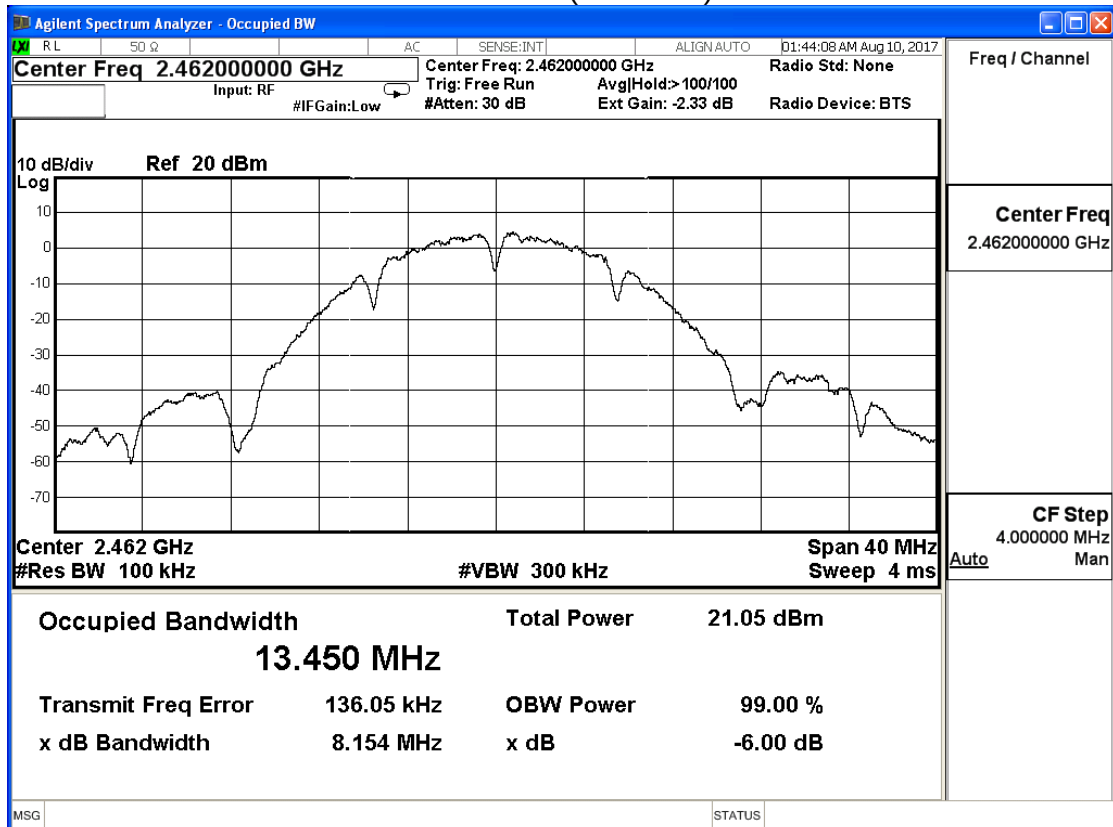
Channel 1 (2412MHz)



Channel 6 (2437MHz)



Channel 11 (2462MHz)

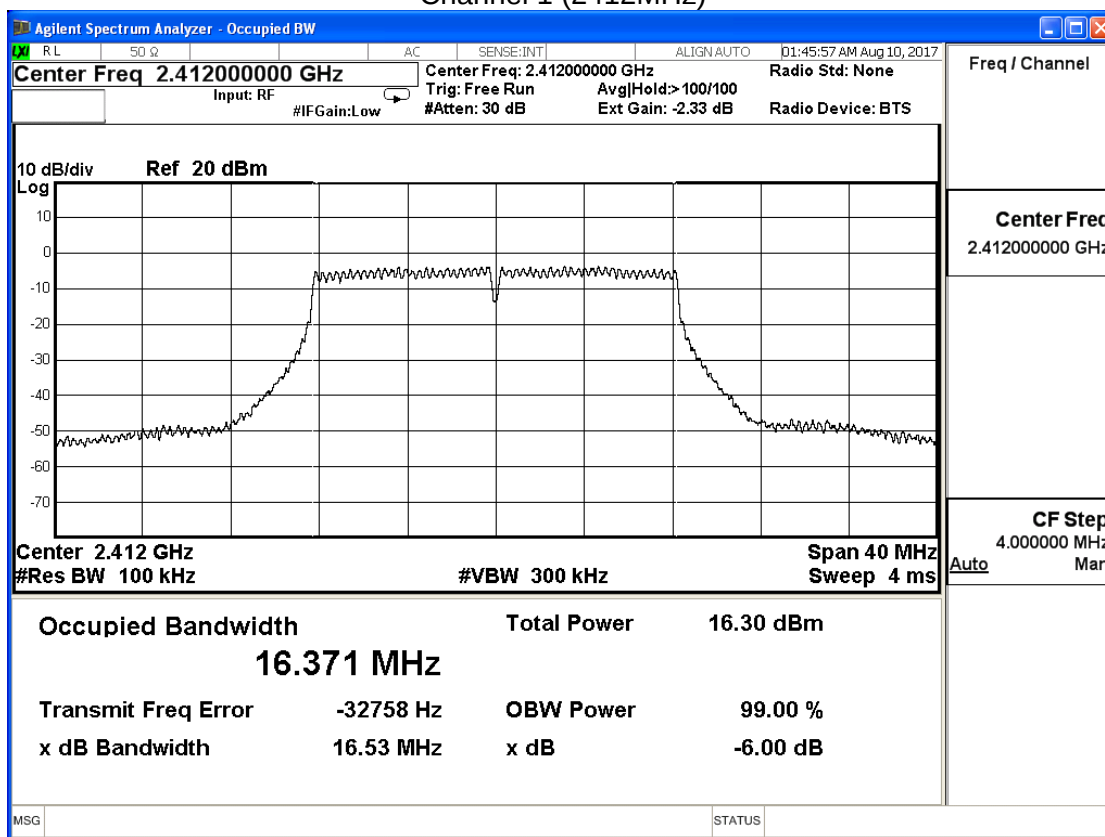


Product	Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Tx_CDD Mode (802.11 b/g)		
Date of Test	2017/08/10	Test Site	SR10-H

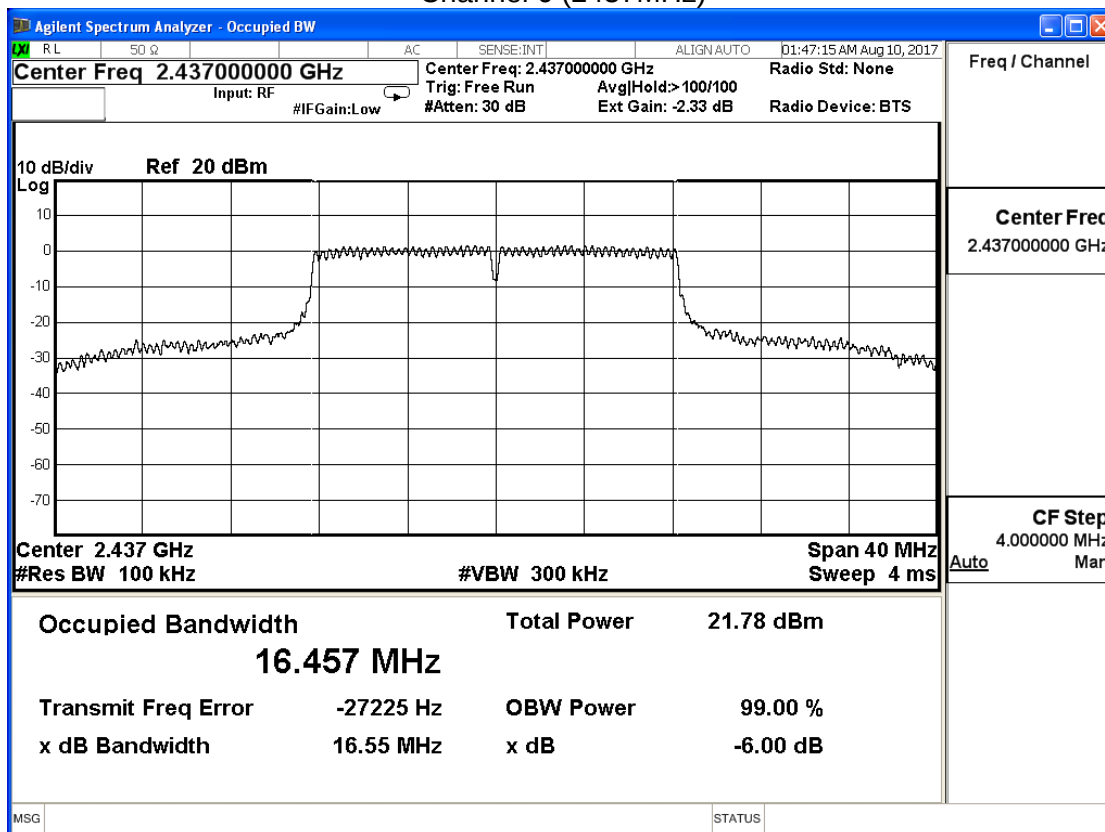
802.11 g (ANT 0)

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
1	2412	16.530	≥ 0.5	Pass
6	2437	16.550	≥ 0.5	Pass
11	2462	16.540	≥ 0.5	Pass

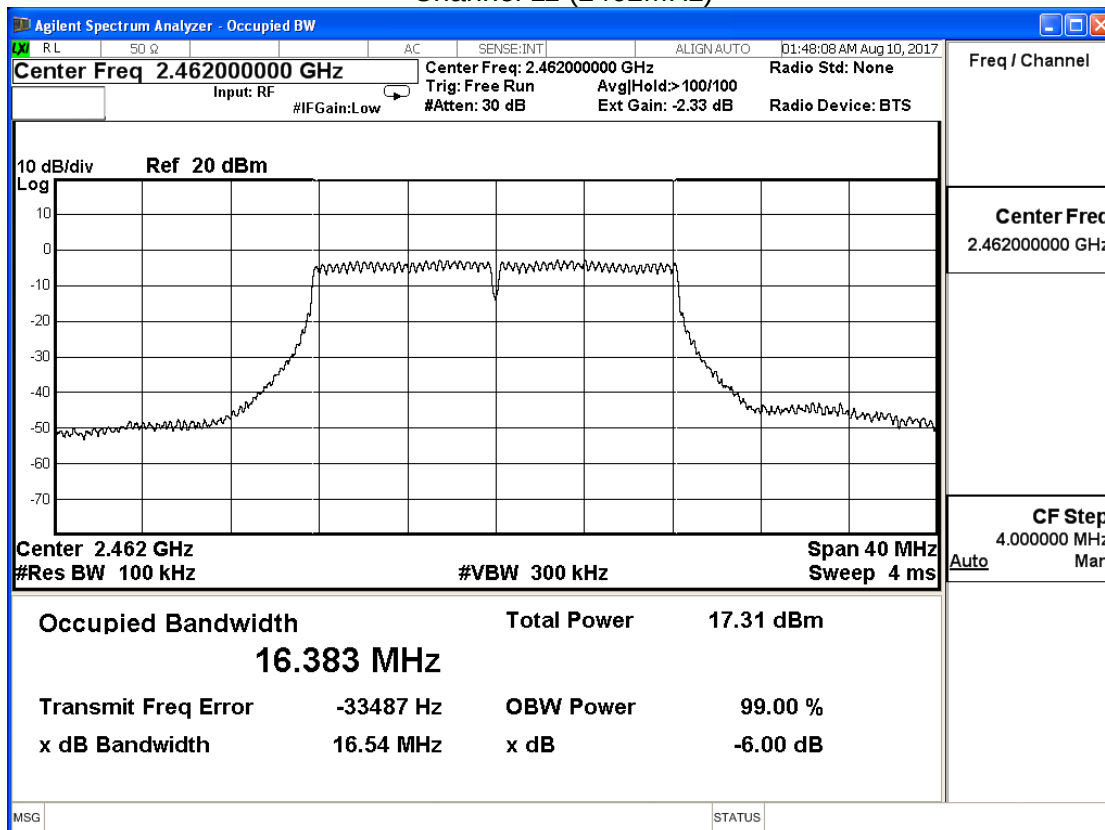
Channel 1 (2412MHz)



Channel 6 (2437MHz)



Channel 11 (2462MHz)

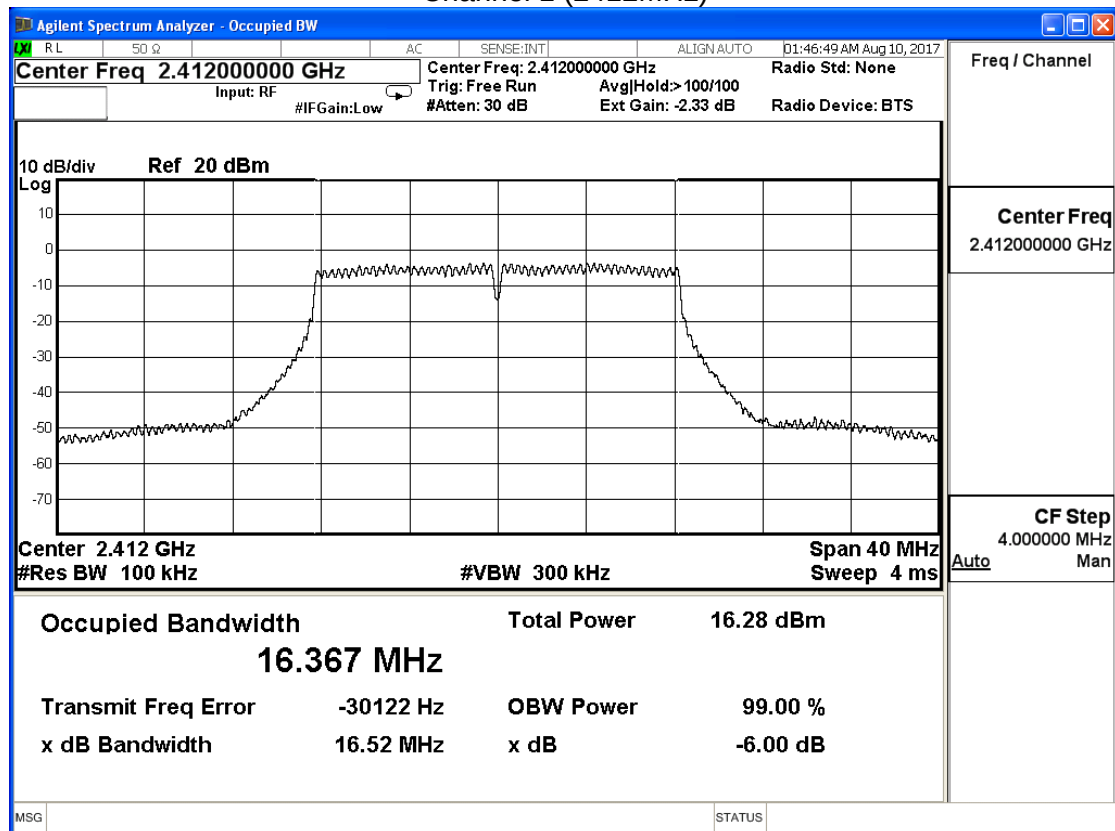


Product	Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Tx_CDD Mode (802.11 b/g)		
Date of Test	2017/08/10	Test Site	SR10-H

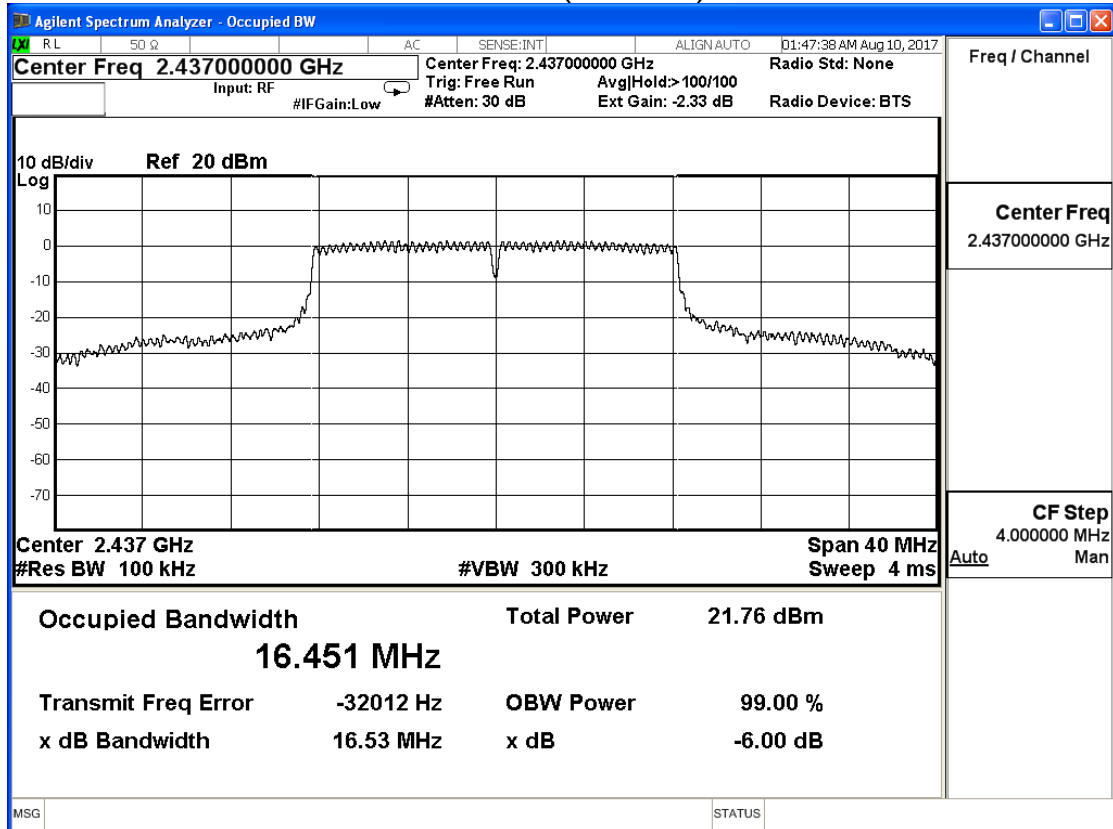
802.11 g (ANT 1)

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
1	2412	16.520	≥ 0.5	Pass
6	2437	16.530	≥ 0.5	Pass
11	2462	16.530	≥ 0.5	Pass

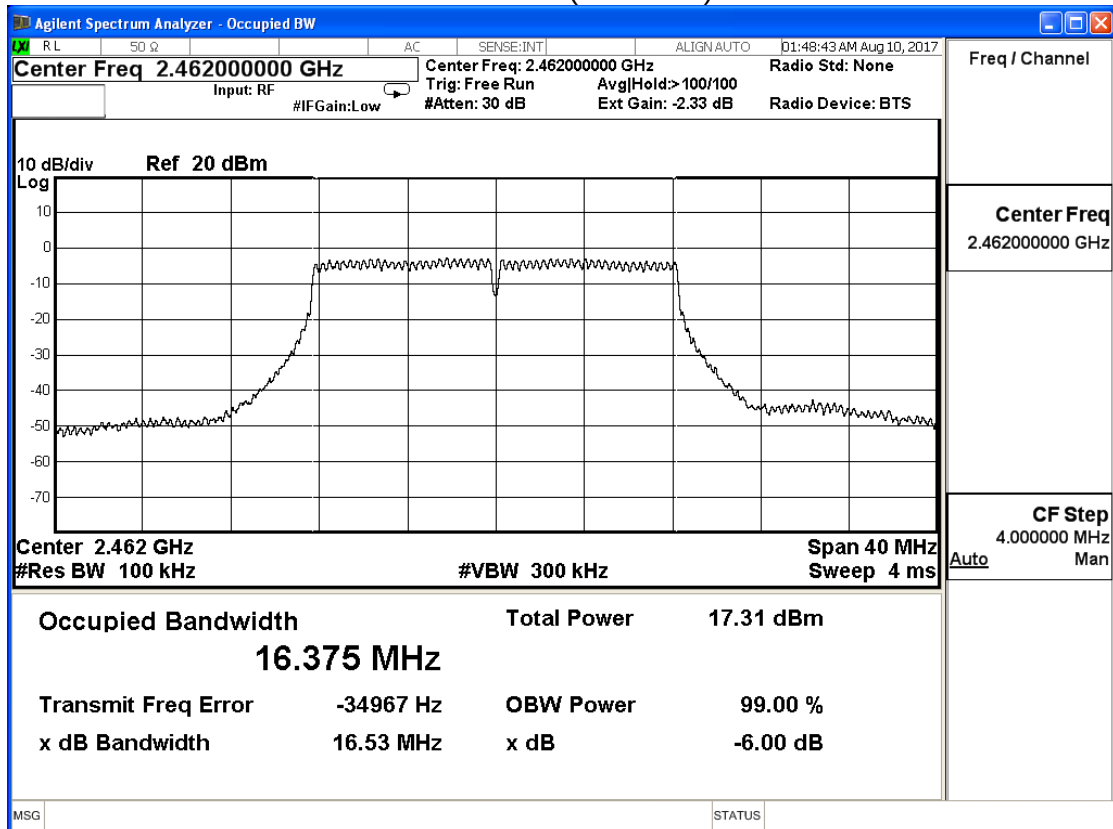
Channel 1 (2412MHz)



Channel 6 (2437MHz)



Channel 11 (2462MHz)

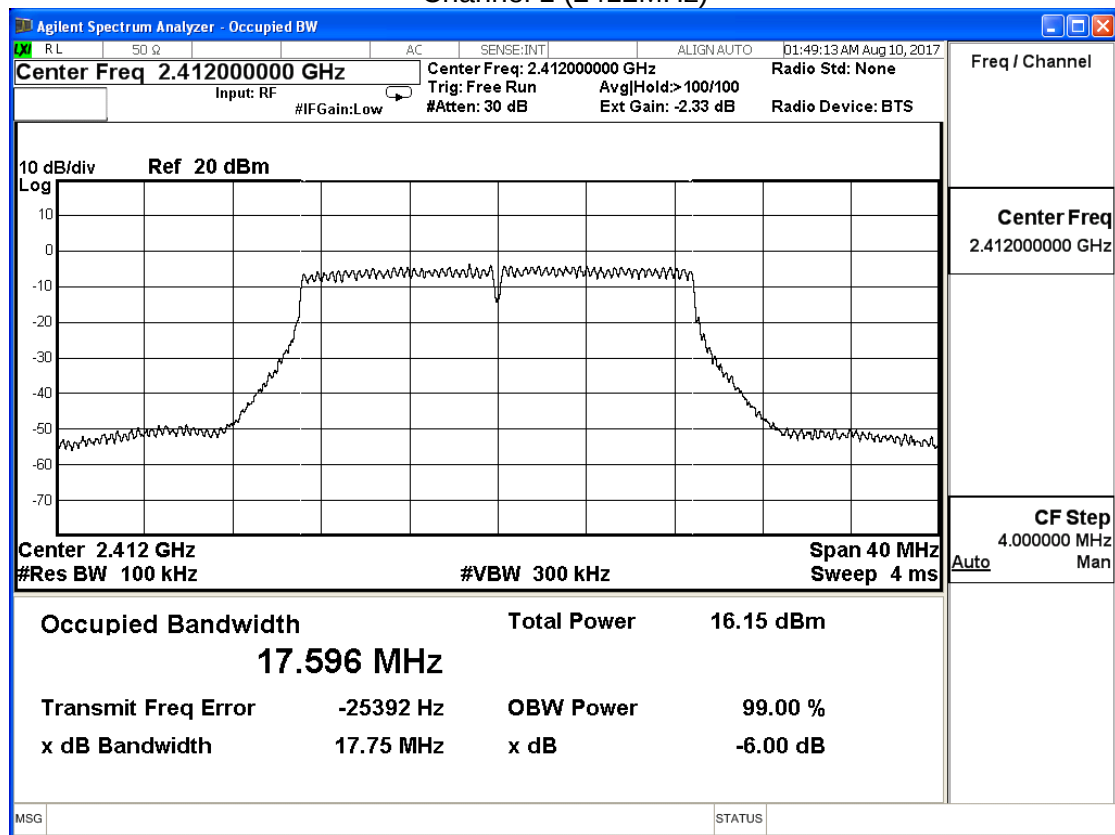


Product	Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP		
Test Item	DTS Bandwidth		
Test Mode	Mode 2: Tx_MIMO Mode (802.11 n20/n40)		
Date of Test	2017/08/10	Test Site	SR10-H

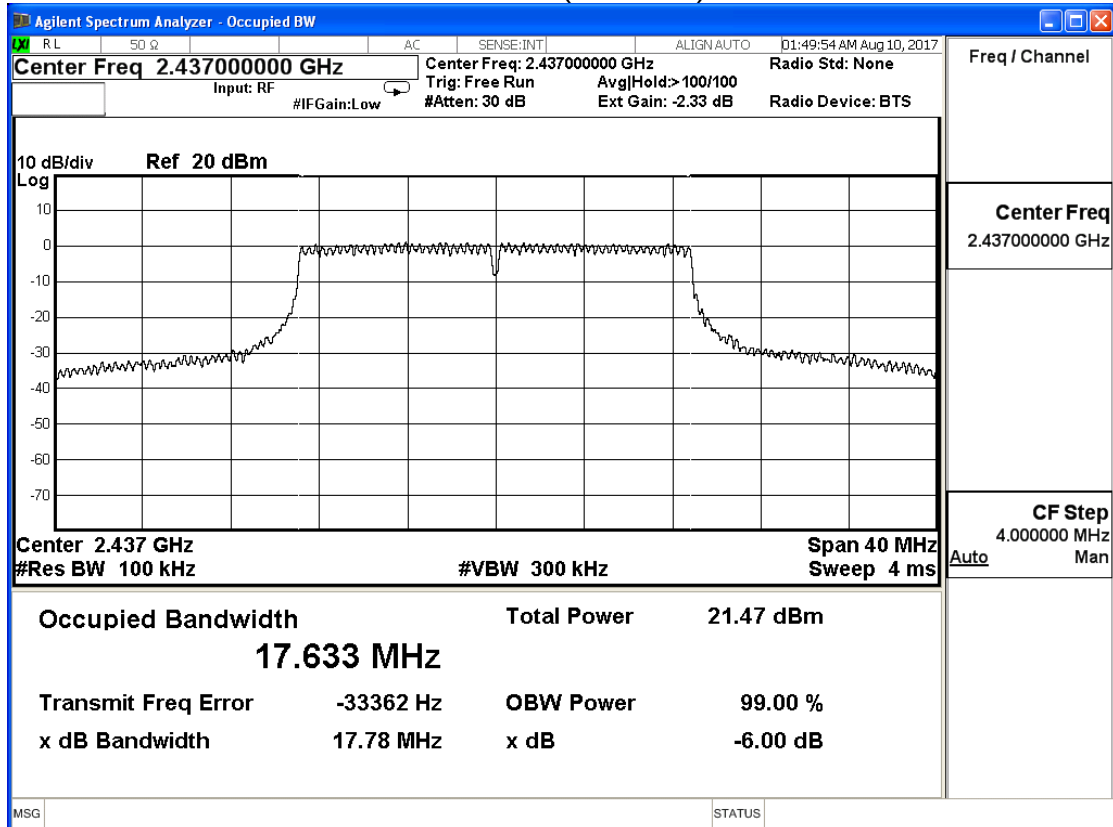
IEEE 802.11n_20M (ANT 0)

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
1	2412	17.750	≥ 0.5	Pass
6	2437	17.780	≥ 0.5	Pass
11	2462	17.760	≥ 0.5	Pass

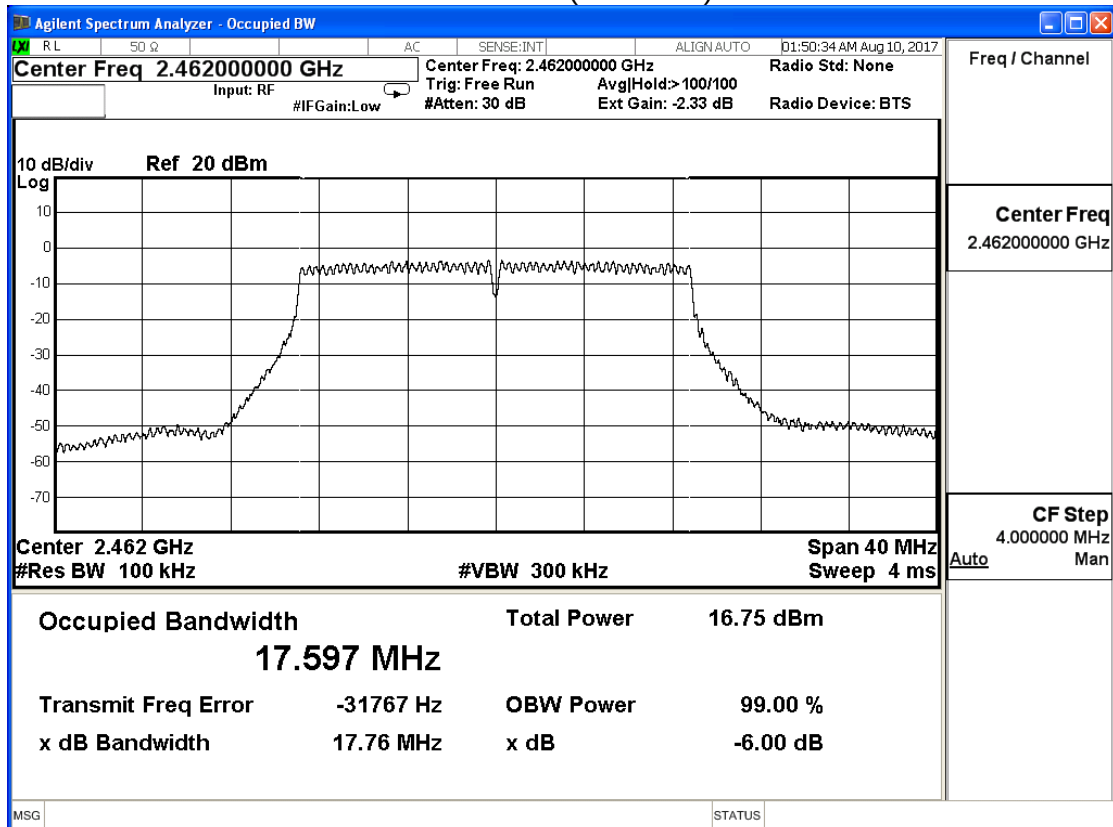
Channel 1 (2412MHz)



Channel 6 (2437MHz)



Channel 11 (2462MHz)

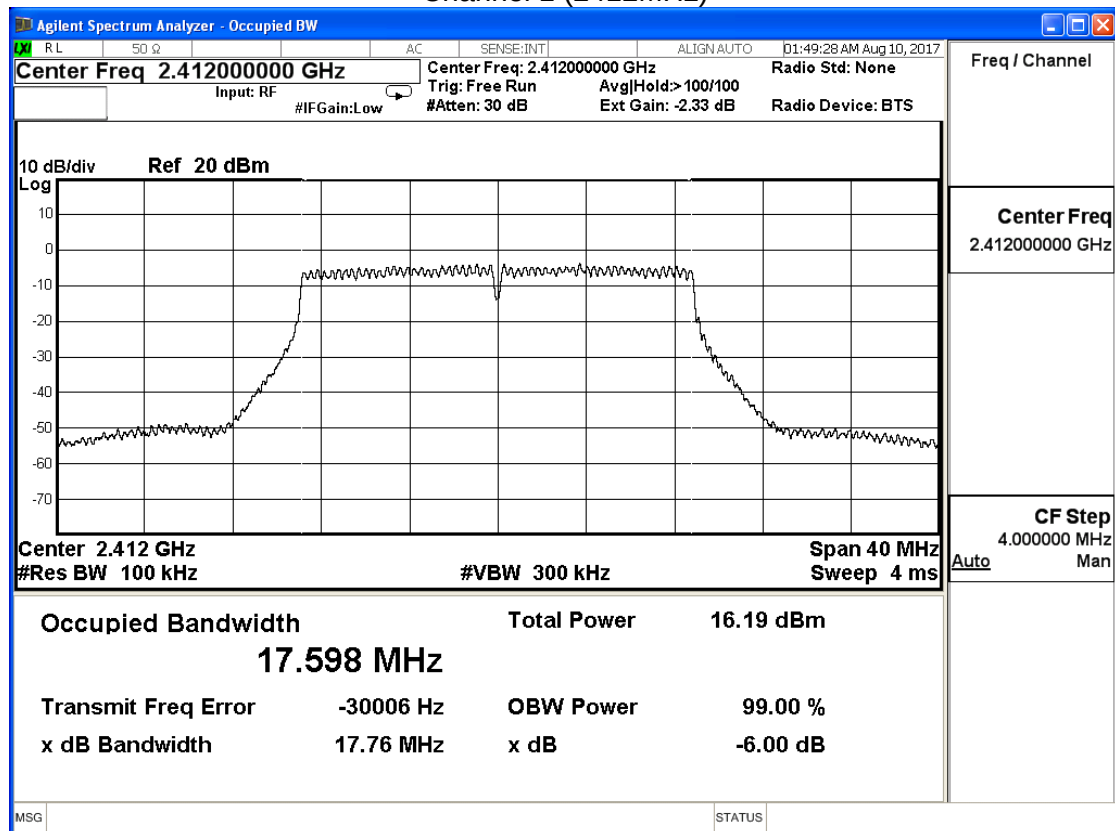


Product	Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP		
Test Item	DTS Bandwidth		
Test Mode	Mode 2: Tx_MIMO Mode (802.11 n20/n40)		
Date of Test	2017/08/10	Test Site	SR10-H

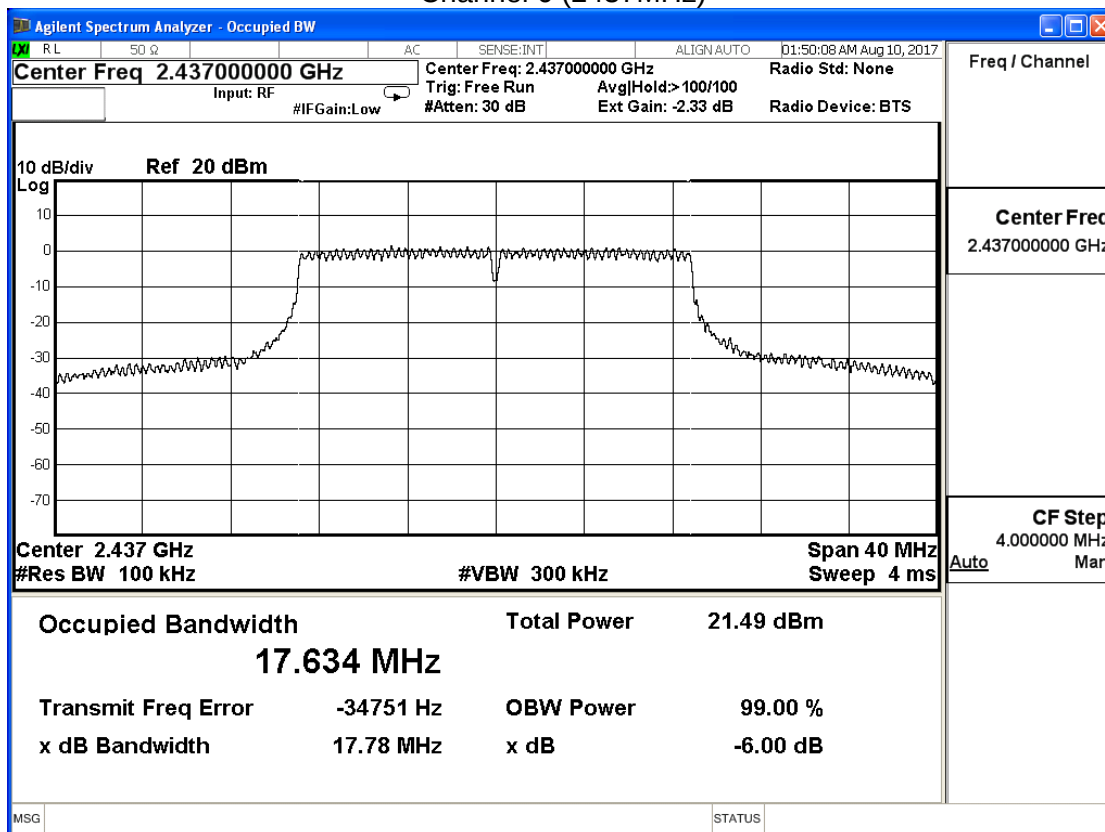
IEEE 802.11n_20M (ANT 1)

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
1	2412	17.760	≥ 0.5	Pass
6	2437	17.780	≥ 0.5	Pass
11	2462	17.780	≥ 0.5	Pass

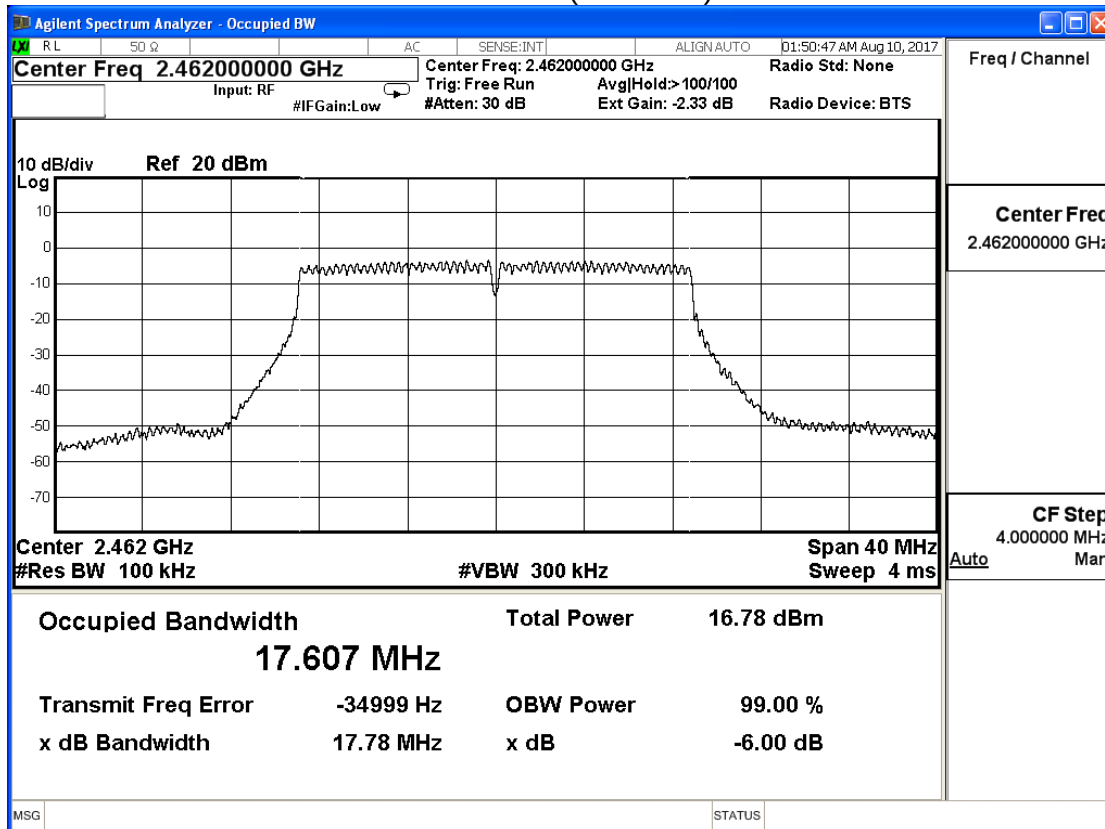
Channel 1 (2412MHz)



Channel 6 (2437MHz)

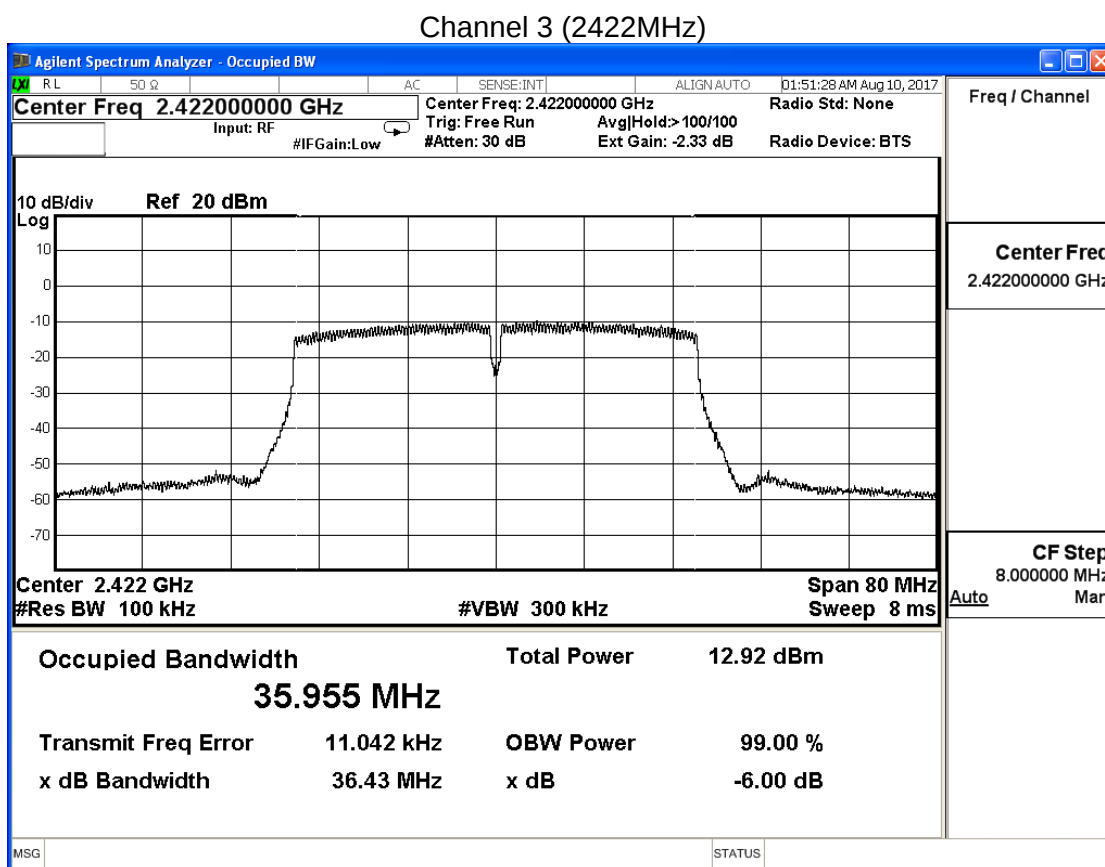


Channel 11 (2462MHz)

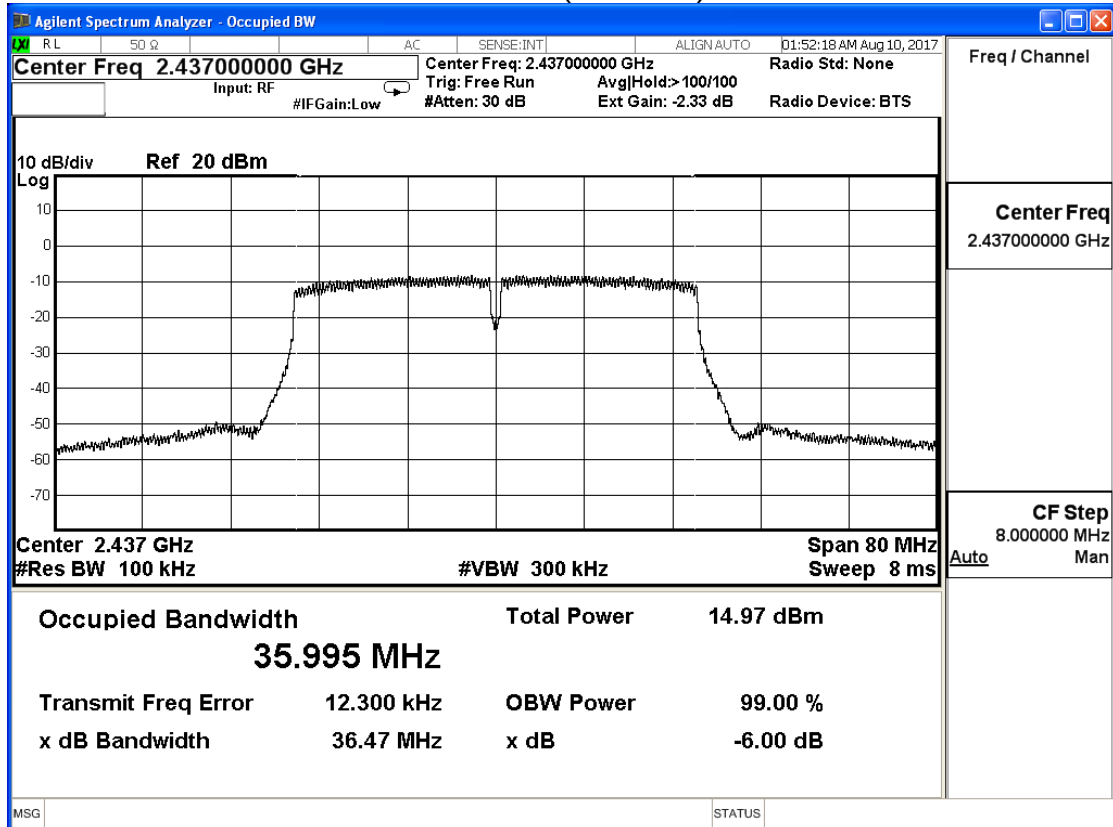


Product	Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP		
Test Item	DTS Bandwidth		
Test Mode	Mode 2: Tx_MIMO Mode (802.11 n20/n40)		
Date of Test	2017/08/10	Test Site	SR10-H

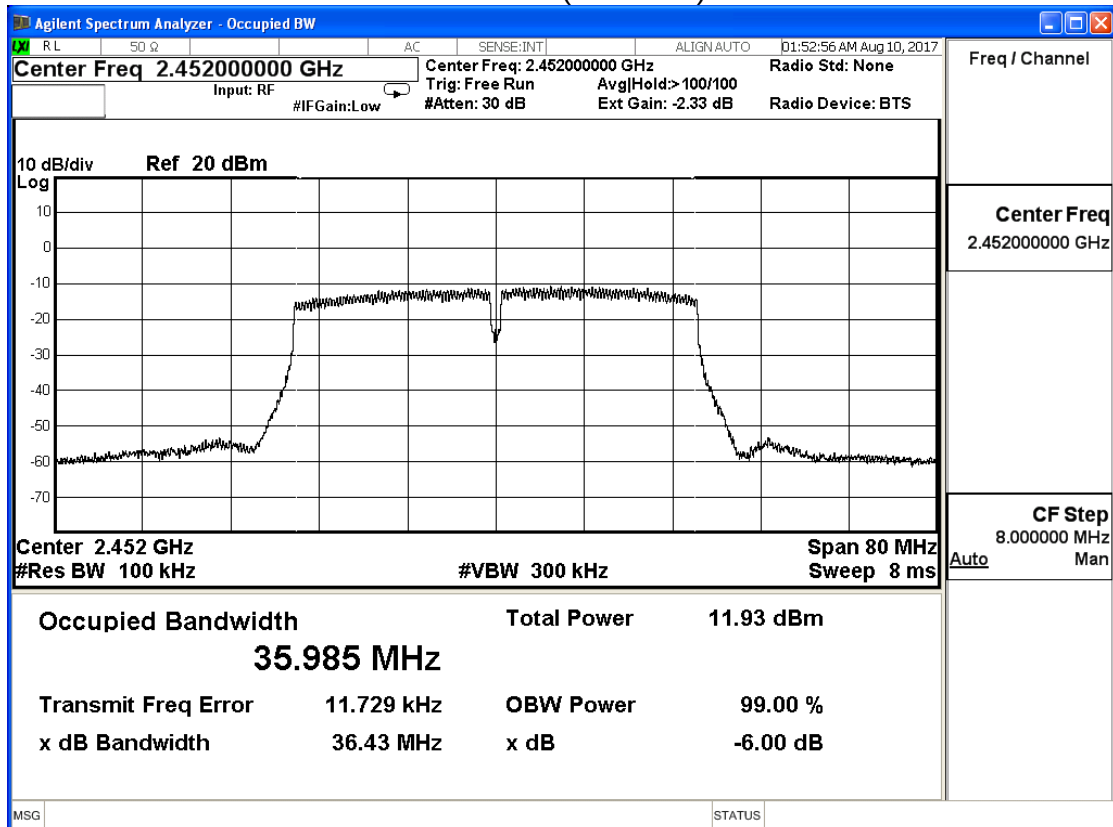
IEEE 802.11n_40M (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
3	2422	36.430	≥ 0.5	Pass
6	2437	36.470	≥ 0.5	Pass
9	2452	36.430	≥ 0.5	Pass



Channel 6 (2437MHz)



Channel 9 (2452MHz)

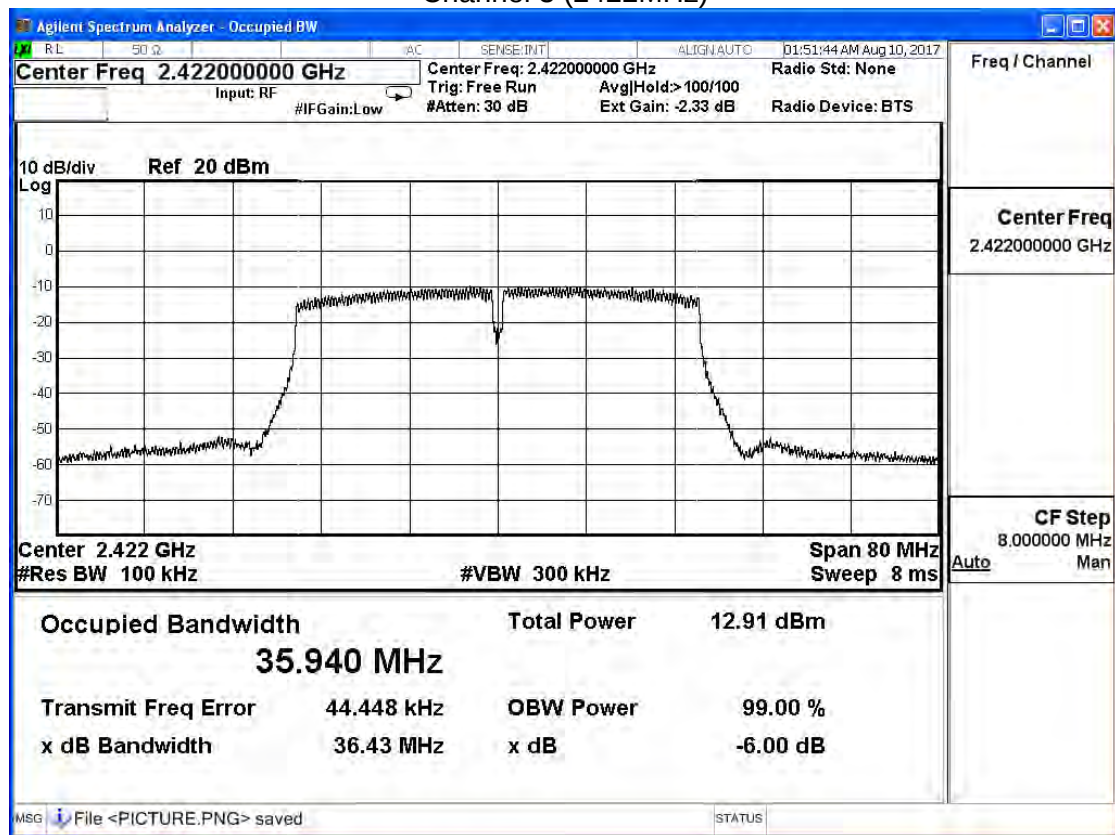


Product	Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP		
Test Item	DTS Bandwidth		
Test Mode	Mode 2: Tx_MIMO Mode (802.11 n20/n40)		
Date of Test	2017/08/10	Test Site	SR10-H

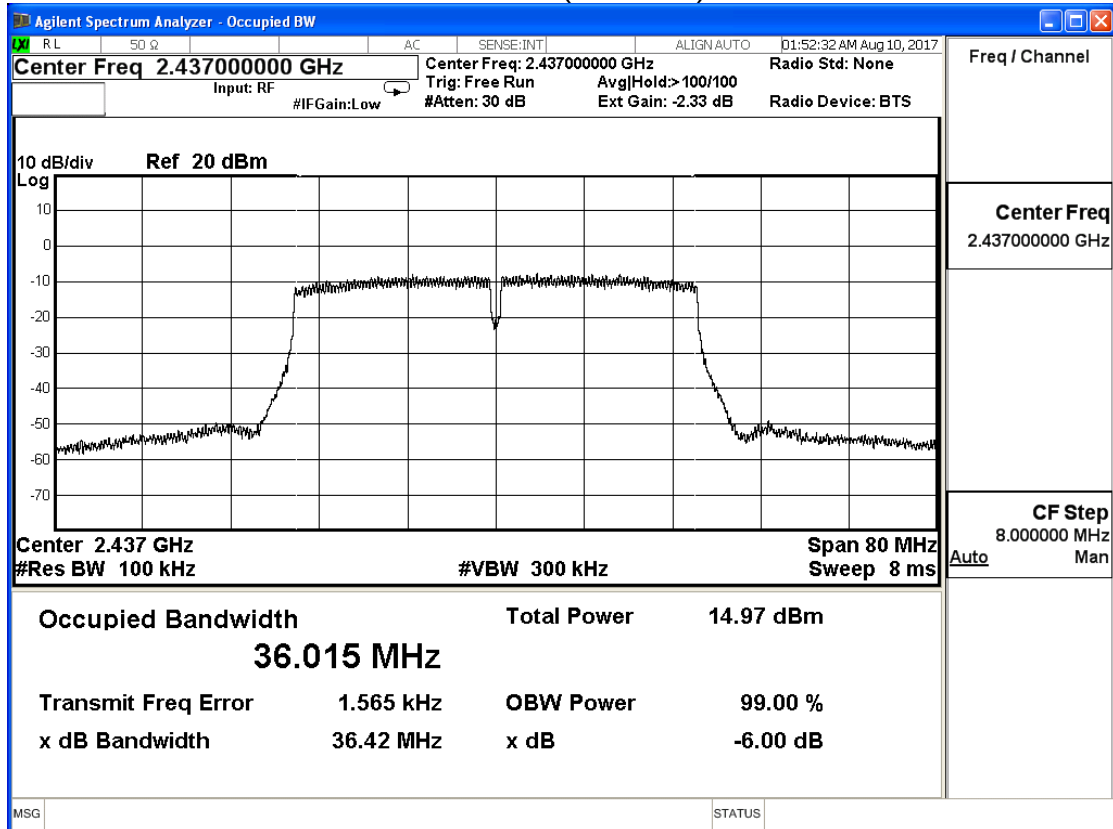
IEEE 802.11n_40M (ANT 1)

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
3	2422	36.430	≥ 0.5	Pass
6	2437	36.420	≥ 0.5	Pass
9	2452	36.450	≥ 0.5	Pass

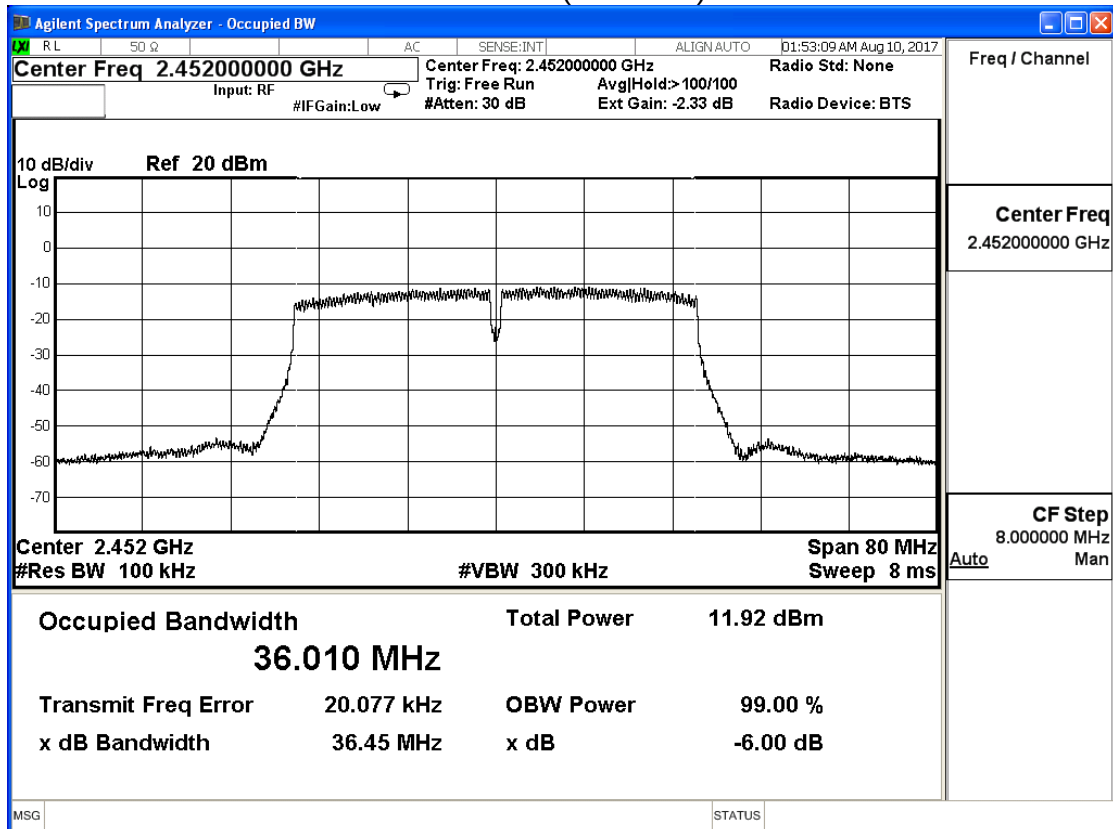
Channel 3 (2422MHz)



Channel 6 (2437MHz)



Channel 9 (2452MHz)



8. Occupied Bandwidth

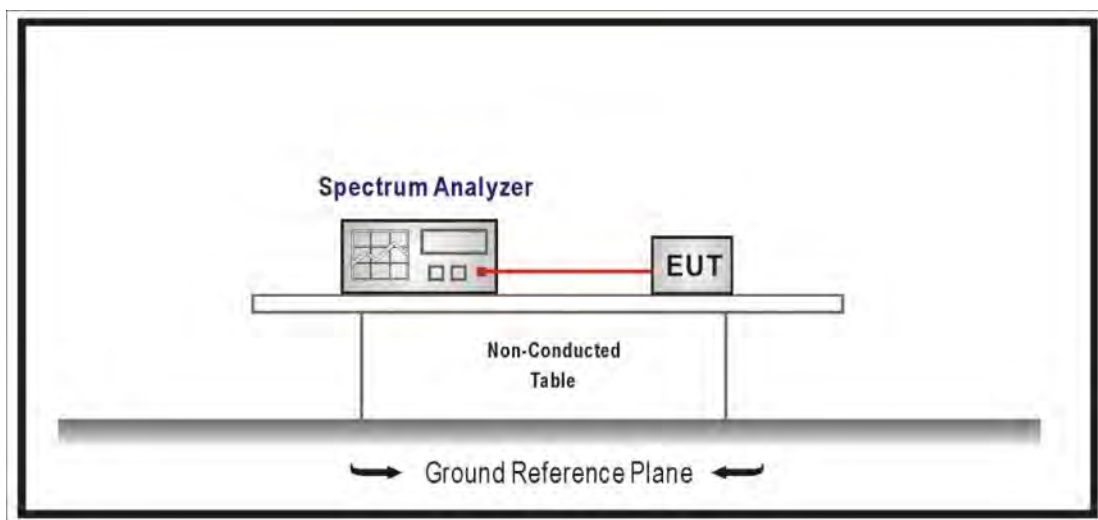
8.1. Test Equipment

The following test equipments are used during the test:

Occupied Bandwidth / SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal & Spectrum Analyzer	R&S	FSV40	101049	2017/01/23	2018/01/22
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2017/03/13	2018/03/12
Spectrum Analyzer	Agilent	N9010A	US47140172	2017/07/26	2018/07/25

8.2. Test Setup



8.3. Test Procedures

The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure of KDB558074 D01 V04 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 1-5% of the OBW, Set the VBW $\geq 3 \times$ RBW, Sweep Time=Auto.

8.4. Limits

N/A

8.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2015

8.6. Uncertainty

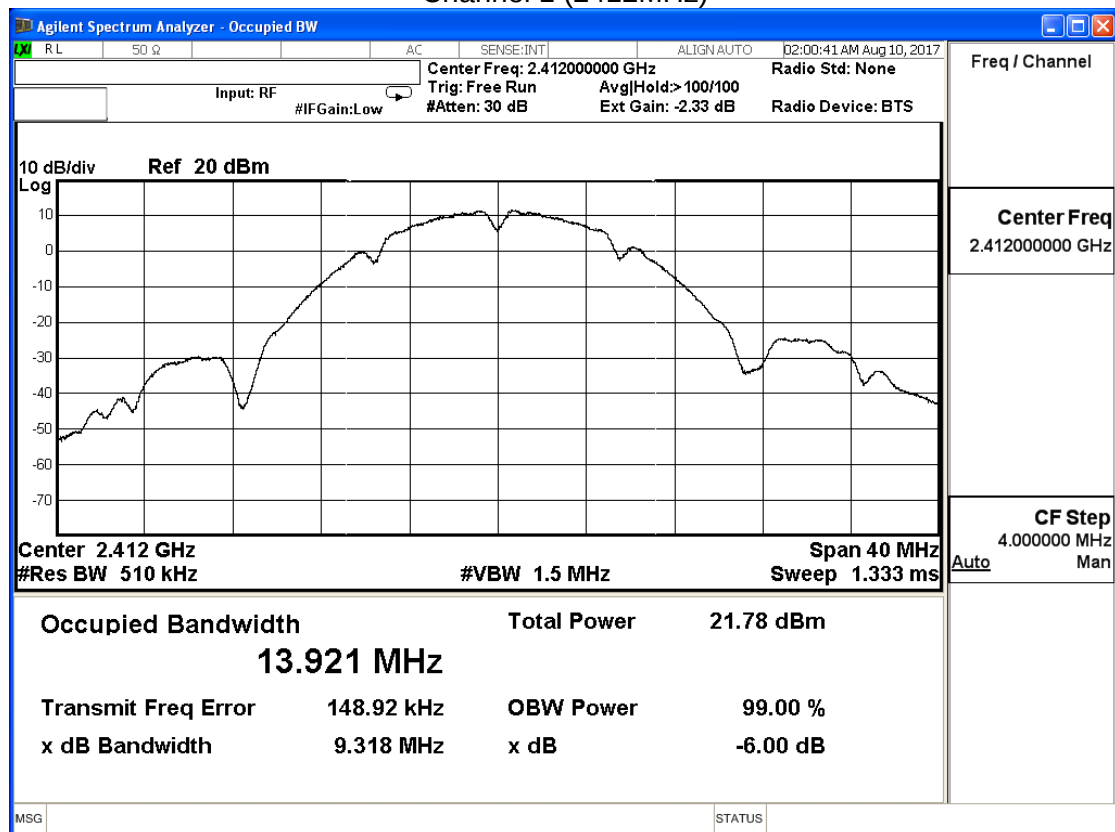
The measurement uncertainty is defined as $\pm 150\text{Hz}$

8.7. Test Result

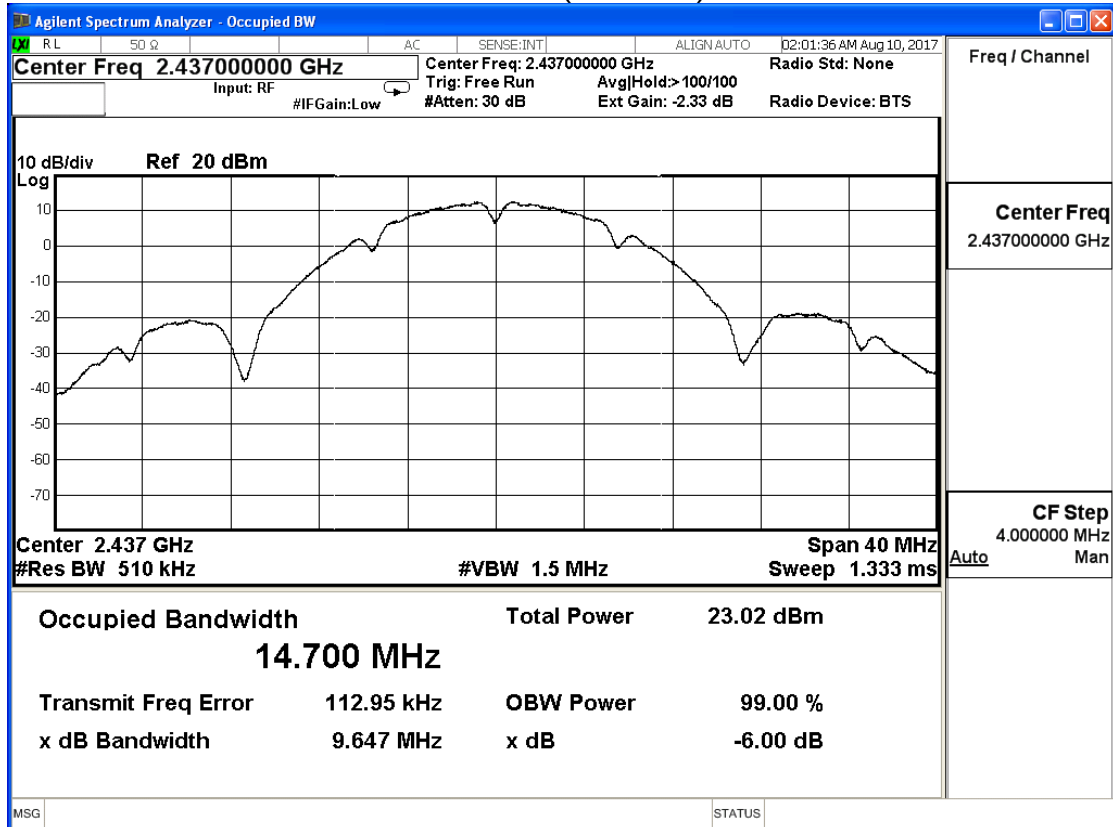
Product	Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Tx_CDD Mode (802.11 b/g)		
Date of Test	2017/08/10	Test Site	SR10-H

802.11 b (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level(MHz)	Limit (MHz)	Result
1	2412	13.921	--	Pass
6	2437	14.700	--	Pass
11	2462	13.475	--	Pass

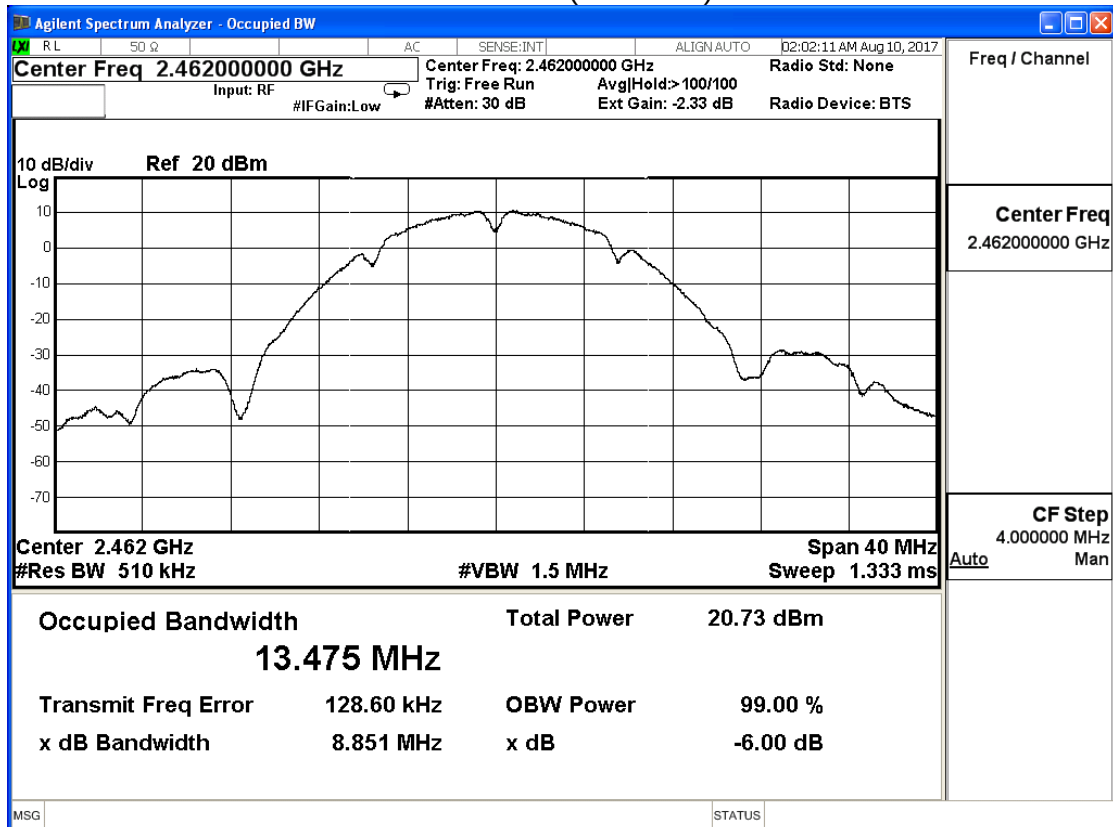
Channel 1 (2412MHz)



Channel 6 (2437MHz)



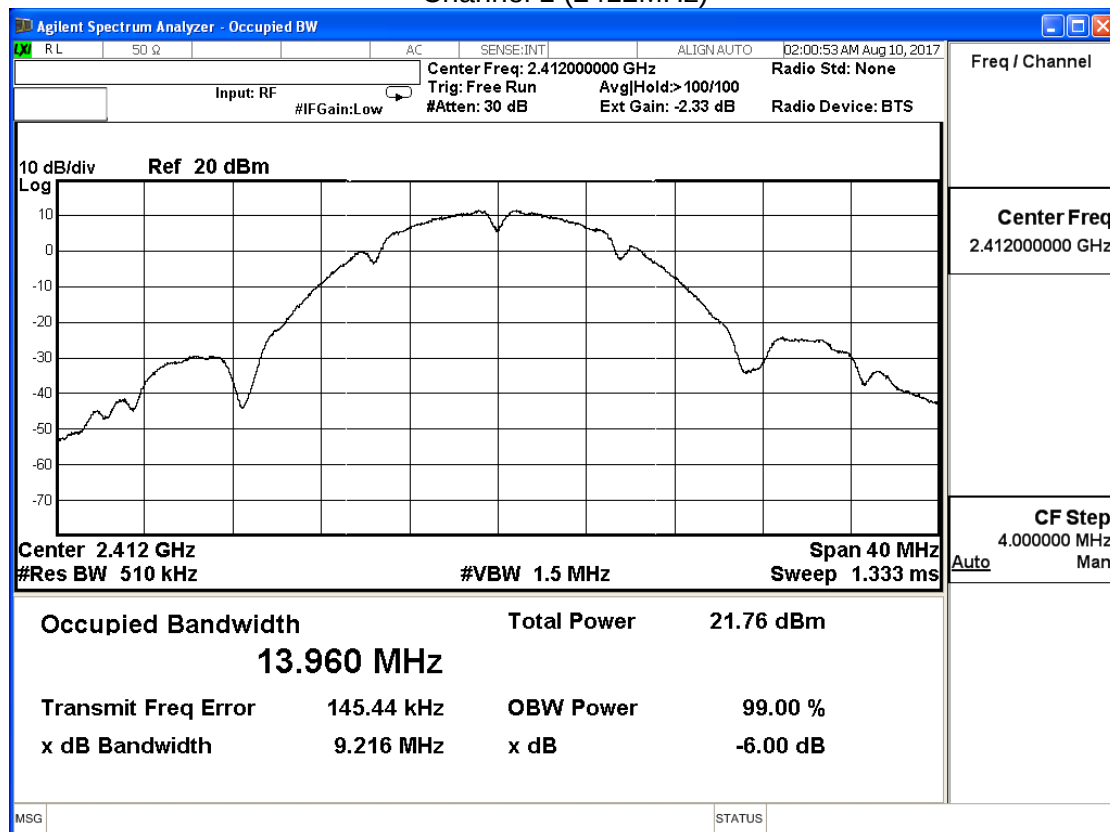
Channel 11 (2462MHz)



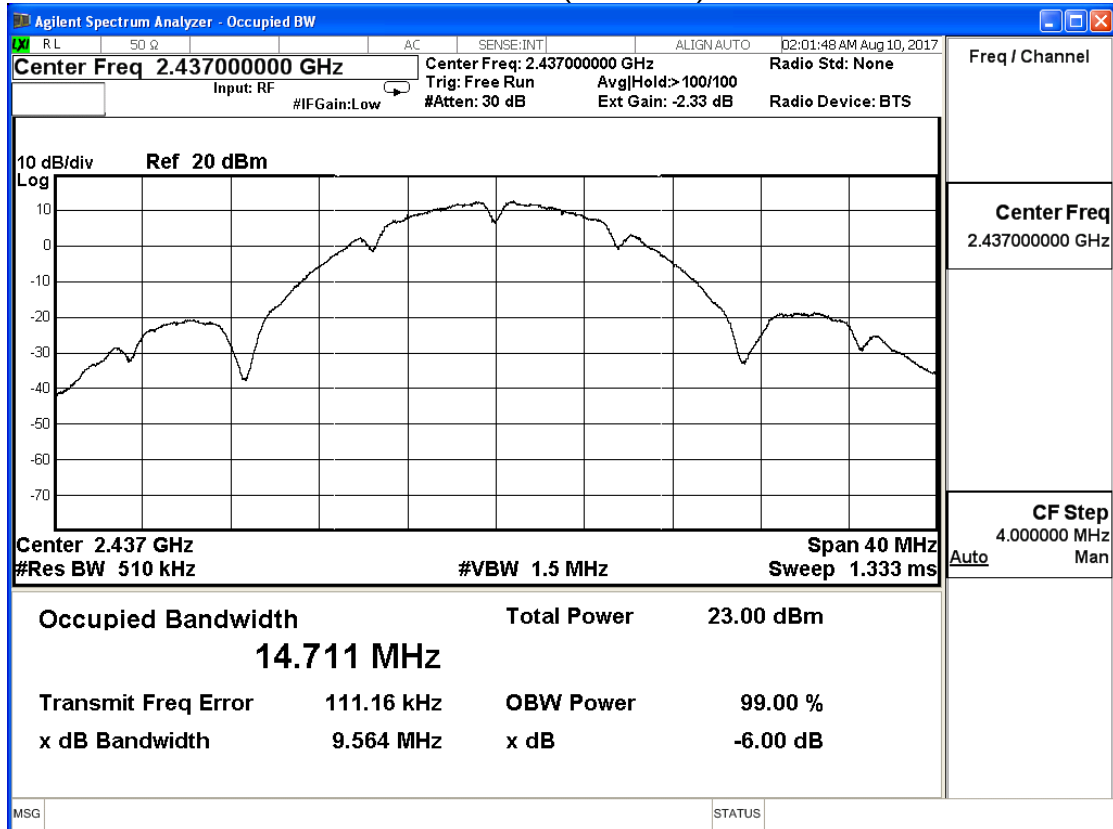
Product	Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Tx_CDD Mode (802.11 b/g)		
Date of Test	2017/08/10	Test Site	SR10-H

802.11 b (ANT 1)				
Channel No.	Frequency (MHz)	Measure Level(MHz)	Limit (MHz)	Result
1	2412	13.960	--	Pass
6	2437	14.711	--	Pass
11	2462	13.471	--	Pass

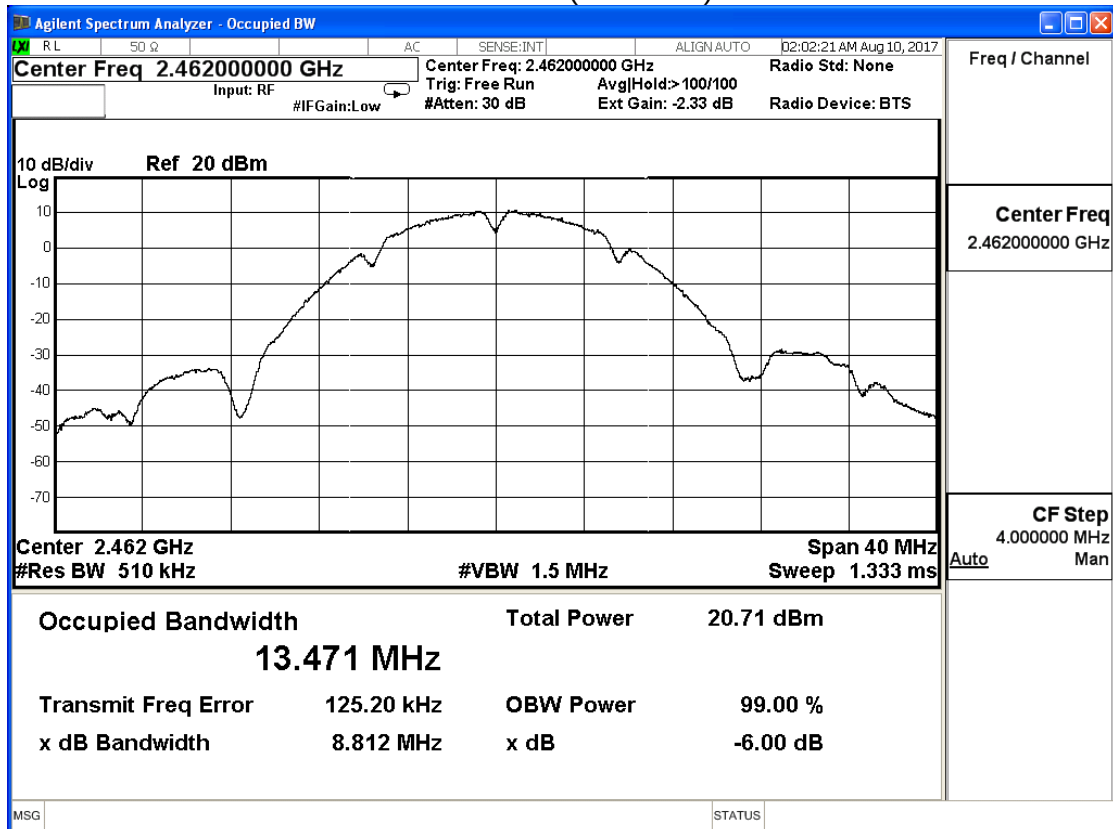
Channel 1 (2412MHz)



Channel 6 (2437MHz)



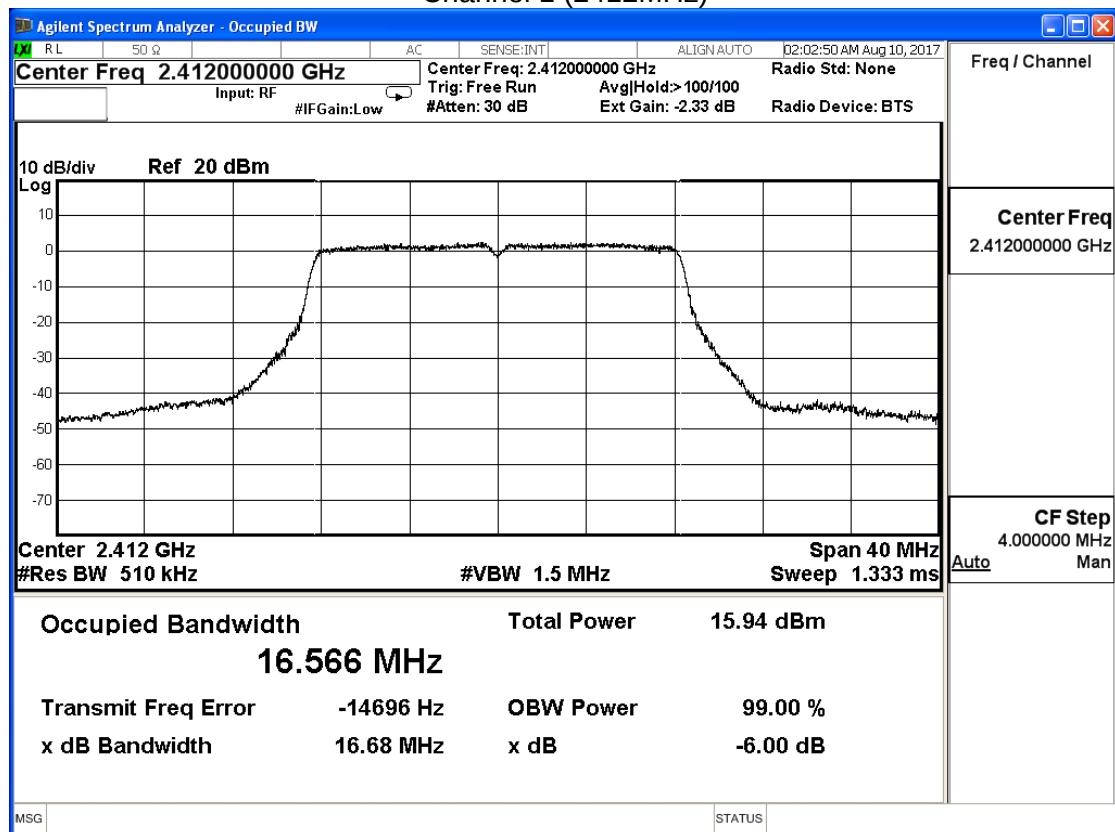
Channel 11 (2462MHz)



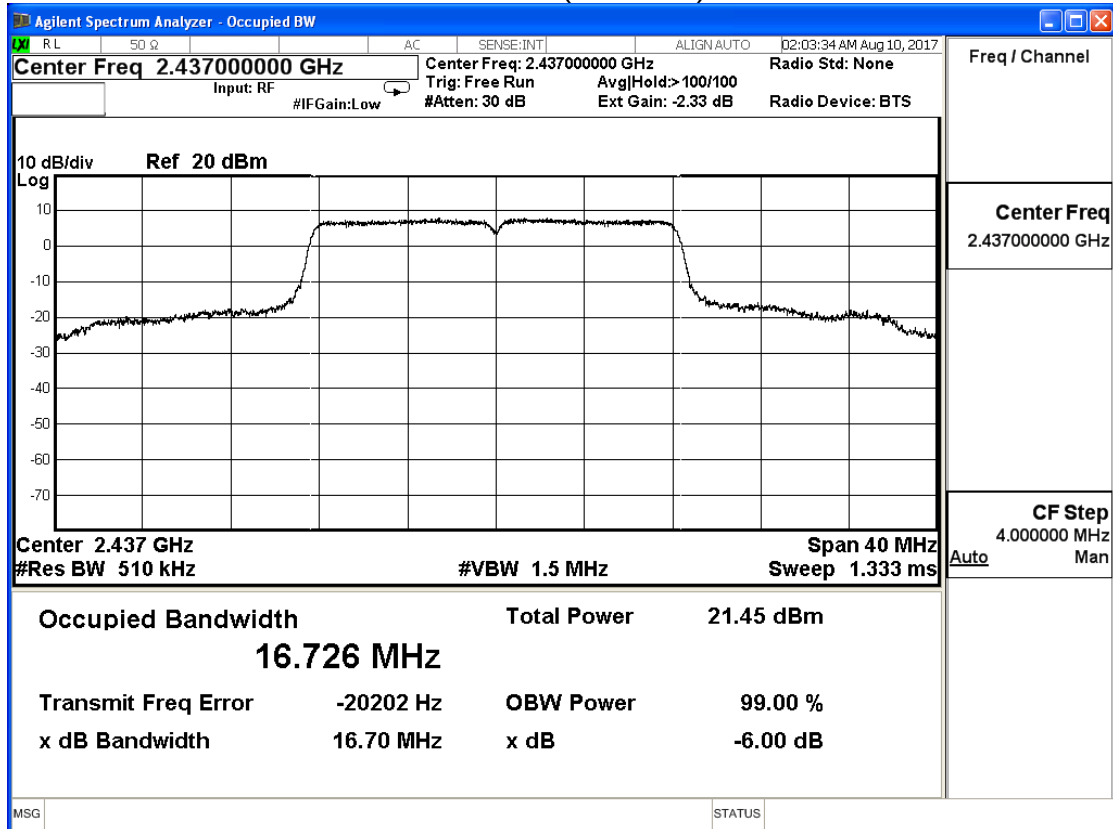
Product	Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Tx_CDD Mode (802.11 b/g)		
Date of Test	2017/08/10	Test Site	SR10-H

802.11 g (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level(MHz)	Limit (MHz)	Result
1	2412	16.566	--	Pass
6	2437	16.726	--	Pass
11	2462	16.569	--	Pass

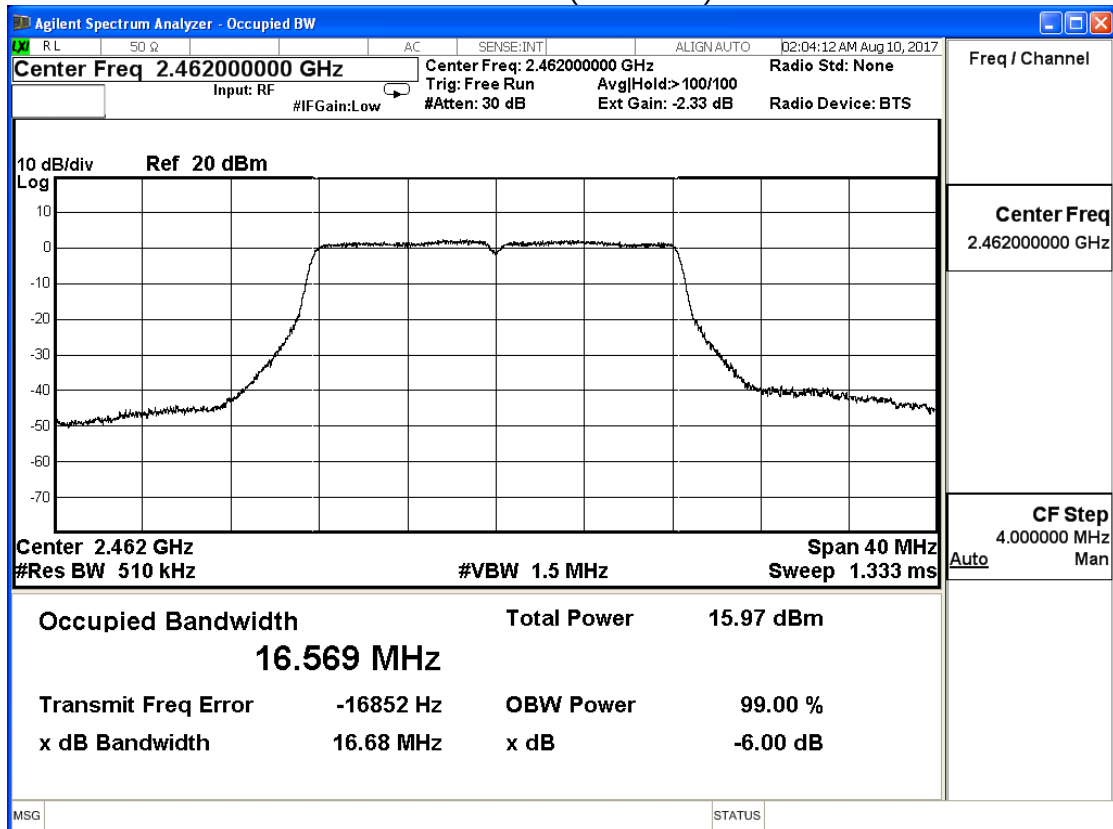
Channel 1 (2412MHz)



Channel 6 (2437MHz)



Channel 11 (2462MHz)

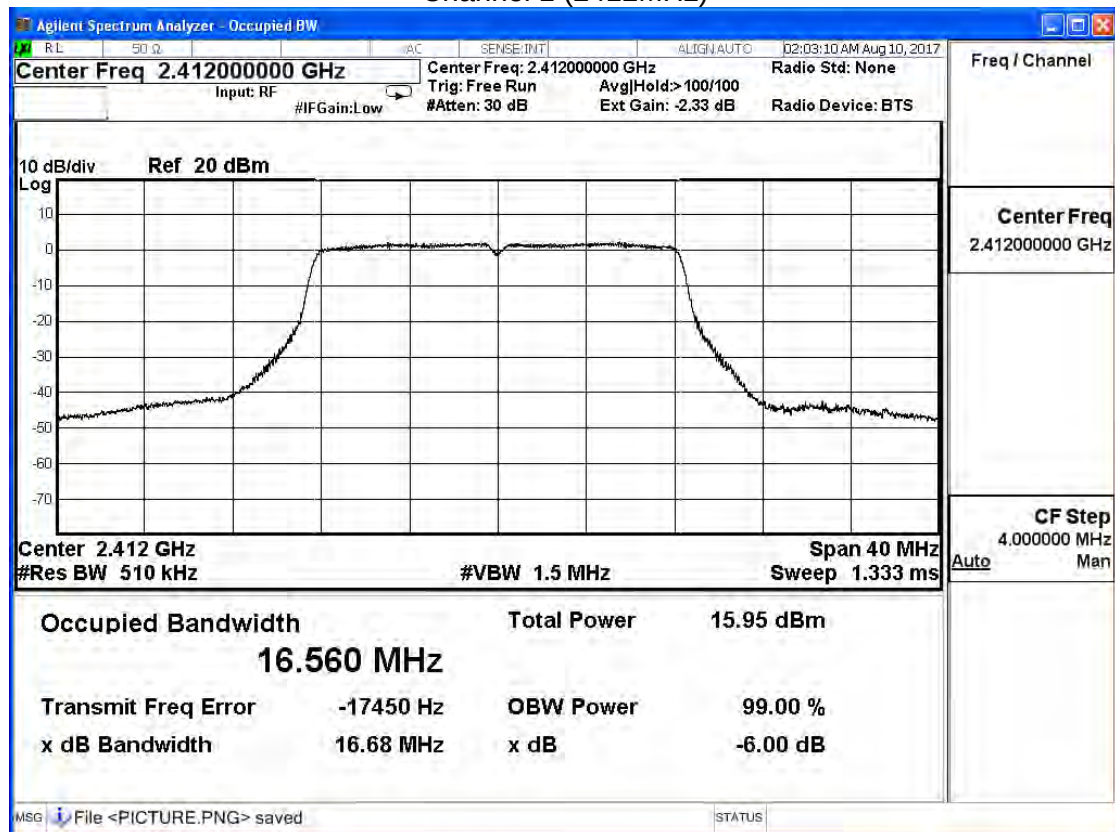


Product	Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Tx_CDD Mode (802.11 b/g)		
Date of Test	2017/08/10	Test Site	SR10-H

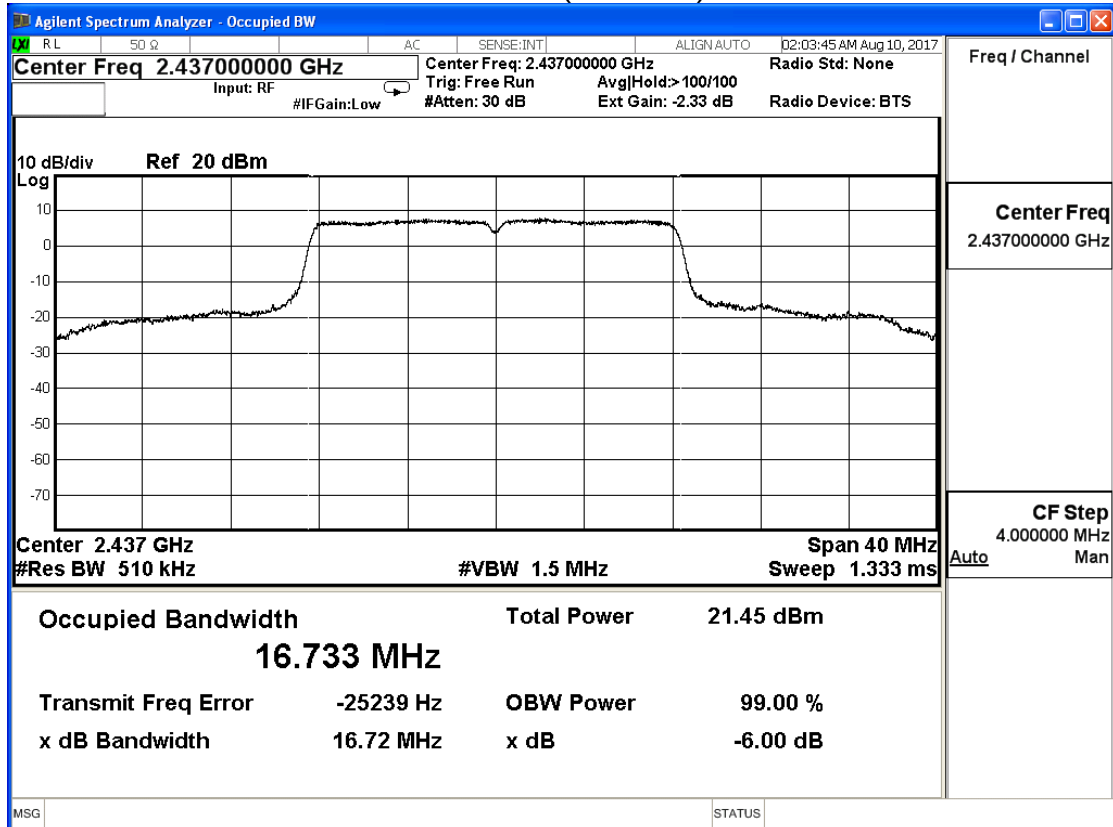
802.11 g (ANT 1)

Channel No.	Frequency (MHz)	Measure Level(MHz)	Limit (MHz)	Result
1	2412	16.560	--	Pass
6	2437	16.733	--	Pass
11	2462	16.576	--	Pass

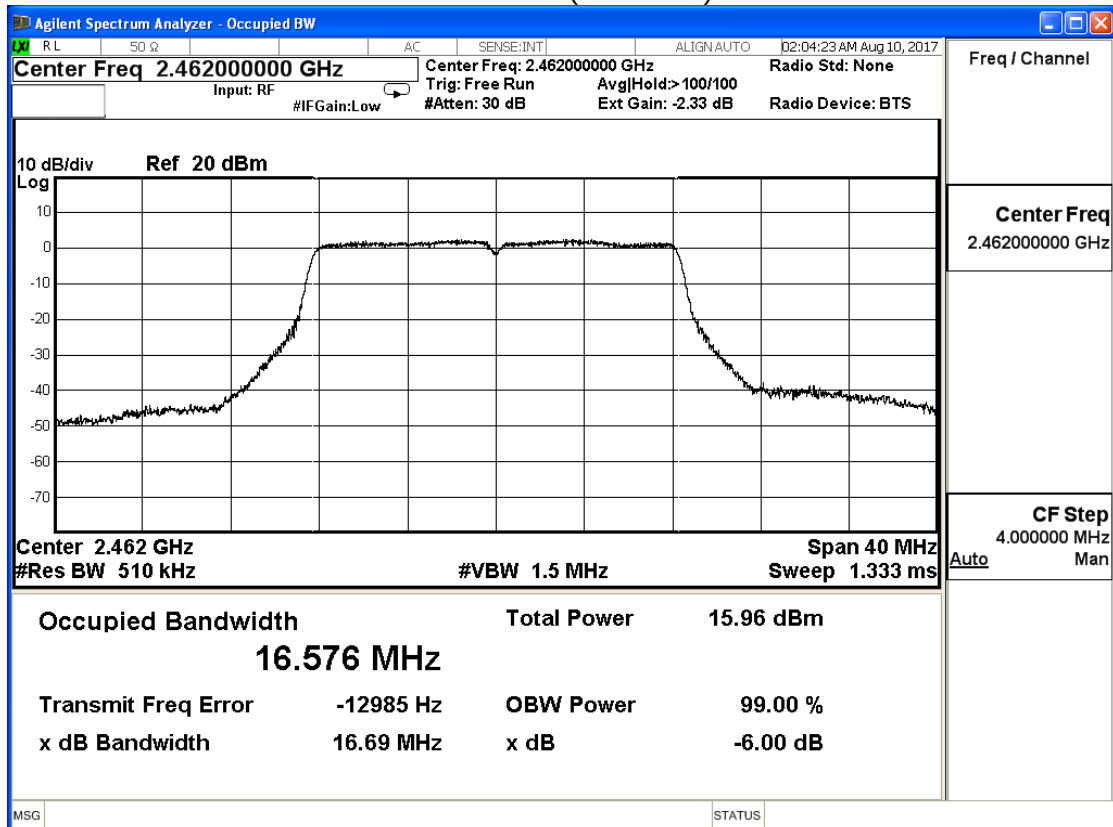
Channel 1 (2412MHz)



Channel 6 (2437MHz)



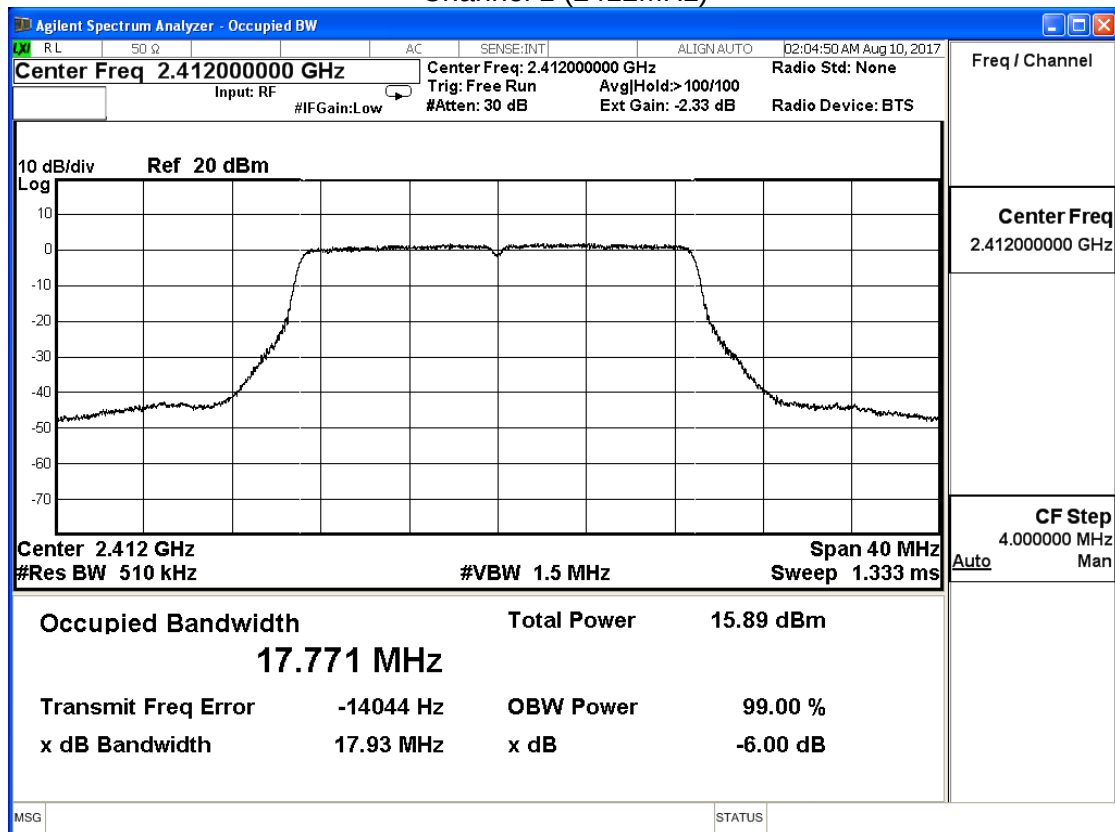
Channel 11 (2462MHz)



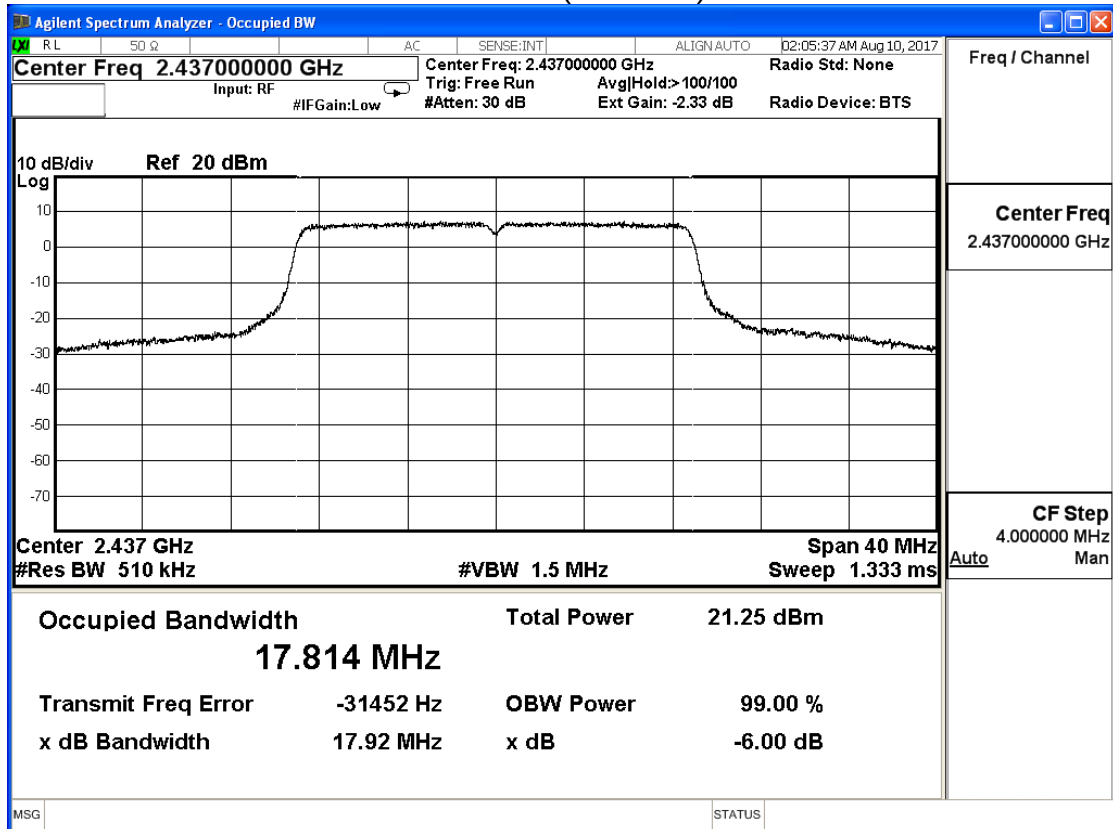
Product	Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP		
Test Item	Occupied Bandwidth		
Test Mode	Mode 2: Tx_MIMO Mode (802.11 n20/n40)		
Date of Test	2017/08/10	Test Site	SR10-H

IEEE802.11n 20MHz (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level(MHz)	Limit (MHz)	Result
1	2412	17.771	--	Pass
6	2437	17.814	--	Pass
11	2462	17.772	--	Pass

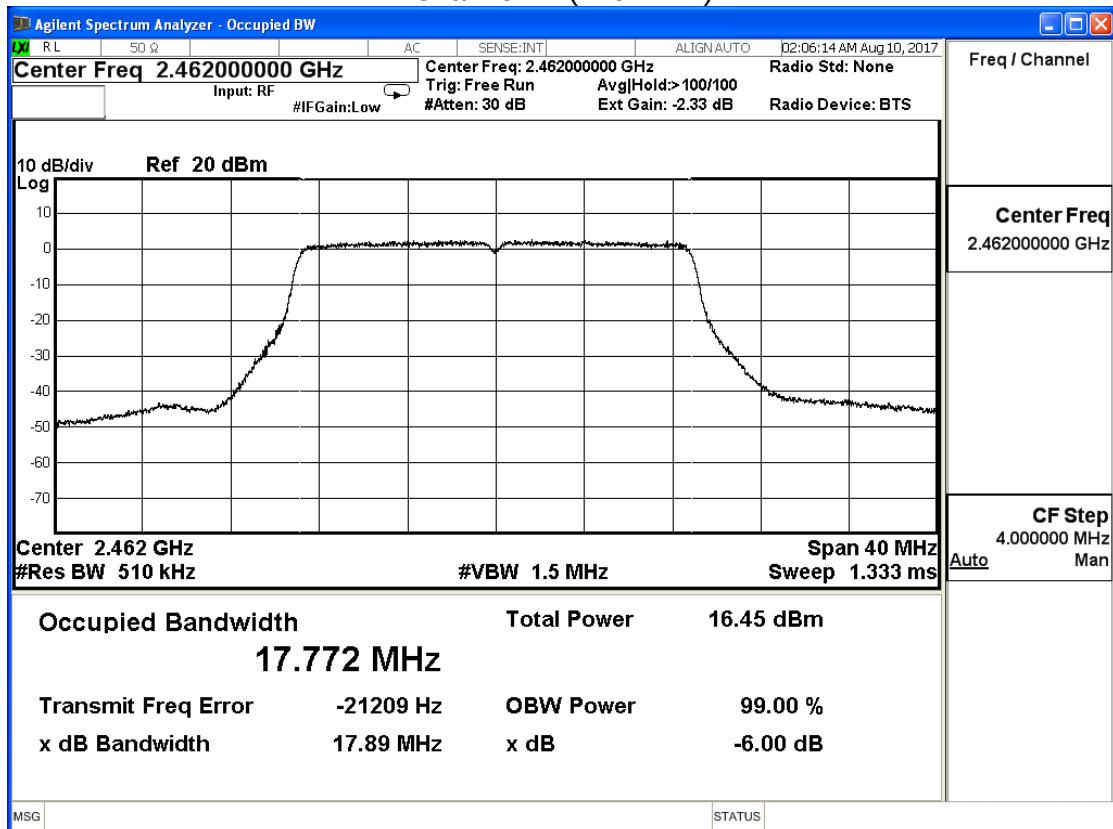
Channel 1 (2412MHz)



Channel 6 (2437MHz)



Channel 11 (2462MHz)

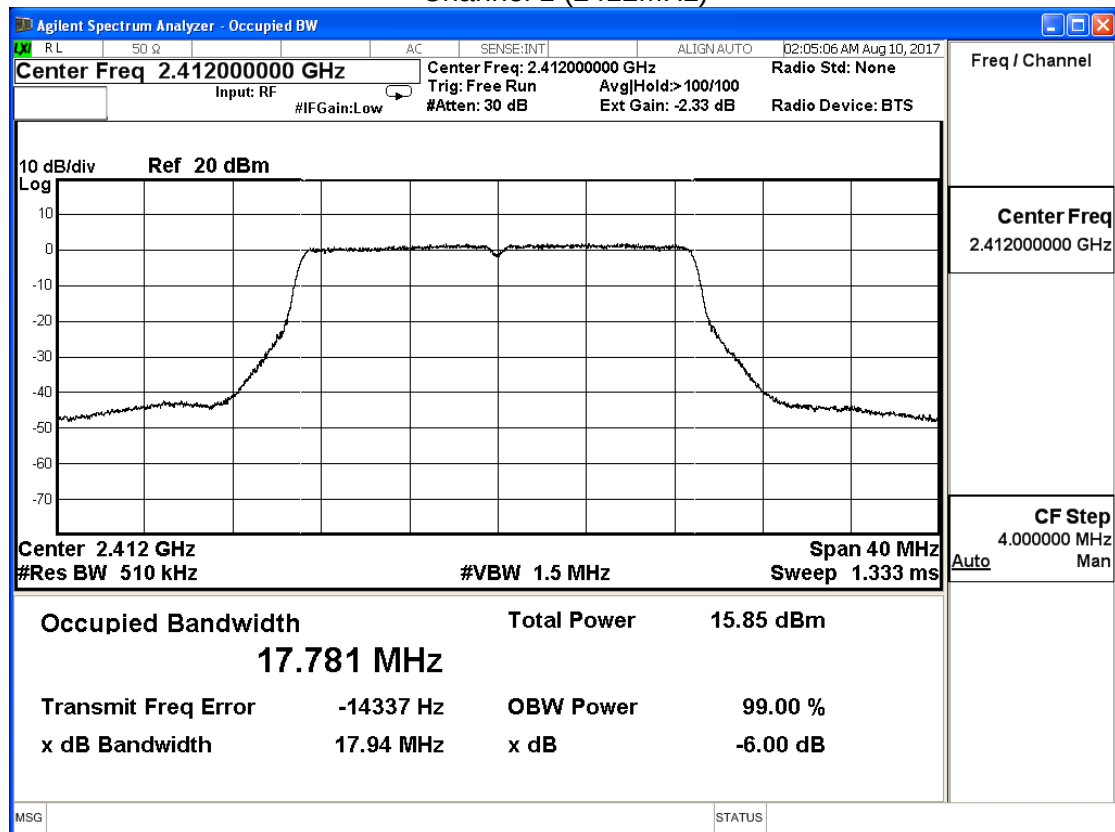


Product	Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP		
Test Item	Occupied Bandwidth		
Test Mode	Mode 2: Tx_MIMO Mode (802.11 n20/n40)		
Date of Test	2017/08/10	Test Site	SR10-H

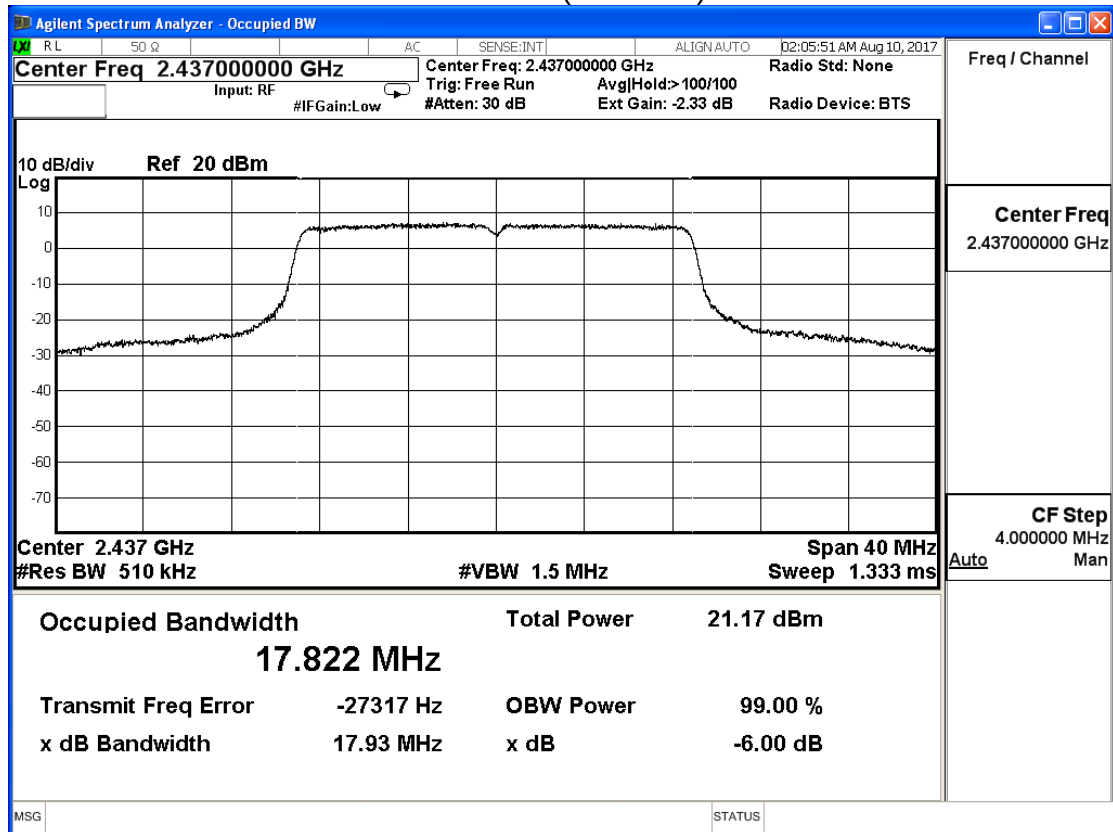
IEEE802.11n 20MHz (ANT 1)

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
1	2412	17.781	--	Pass
6	2437	17.822	--	Pass
11	2462	17.760	--	Pass

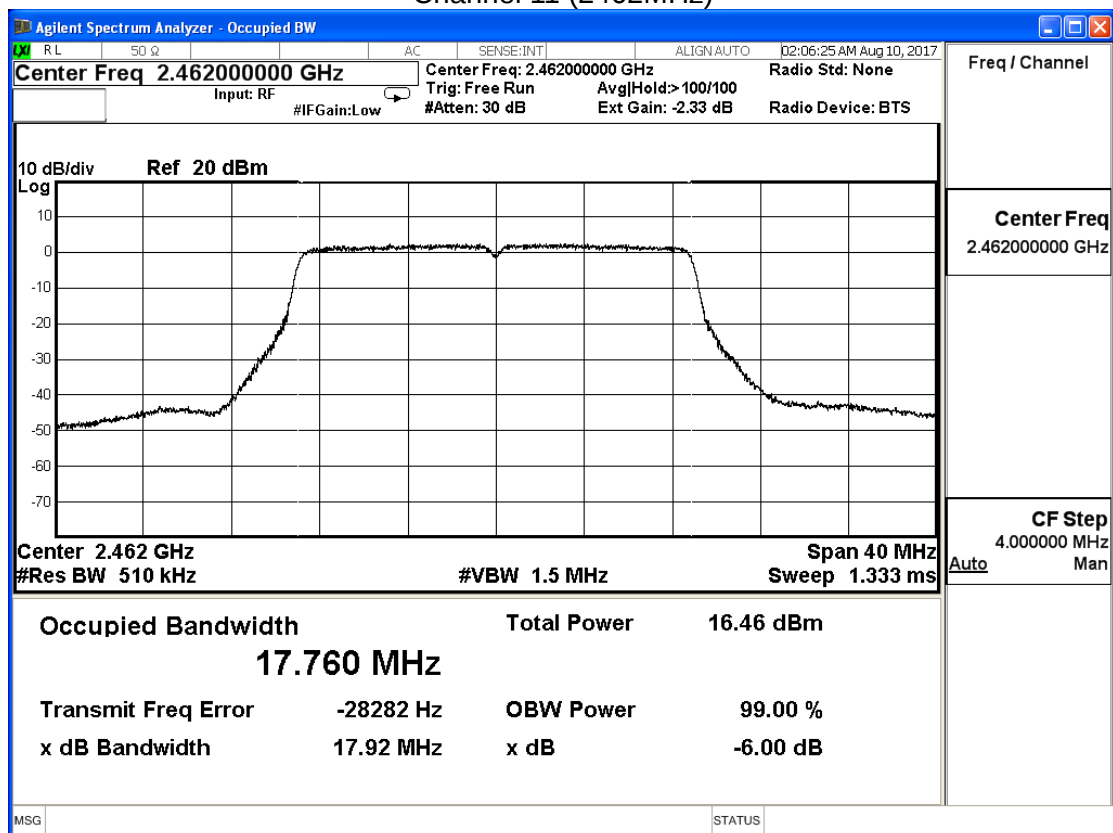
Channel 1 (2412MHz)



Channel 6 (2437MHz)



Channel 11 (2462MHz)

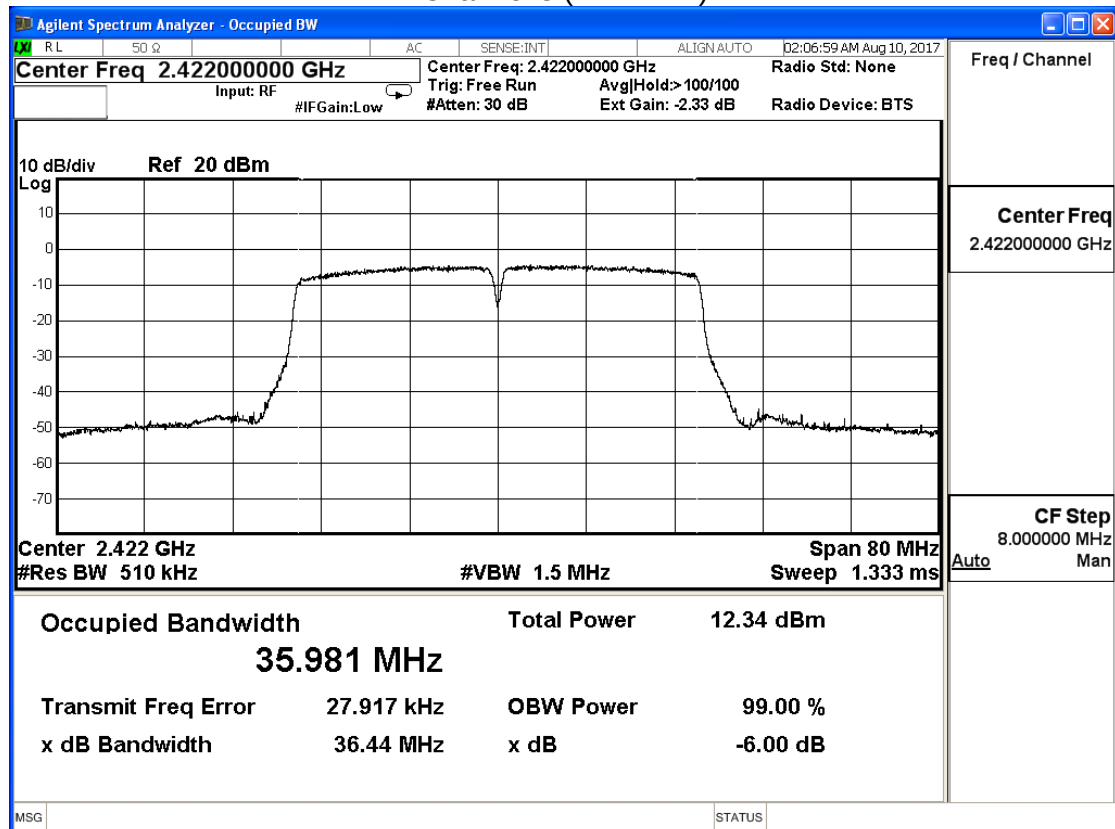


Product	Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP		
Test Item	Occupied Bandwidth		
Test Mode	Mode 2: Tx_MIMO Mode (802.11 n20/n40)		
Date of Test	2017/08/10	Test Site	SR10-H

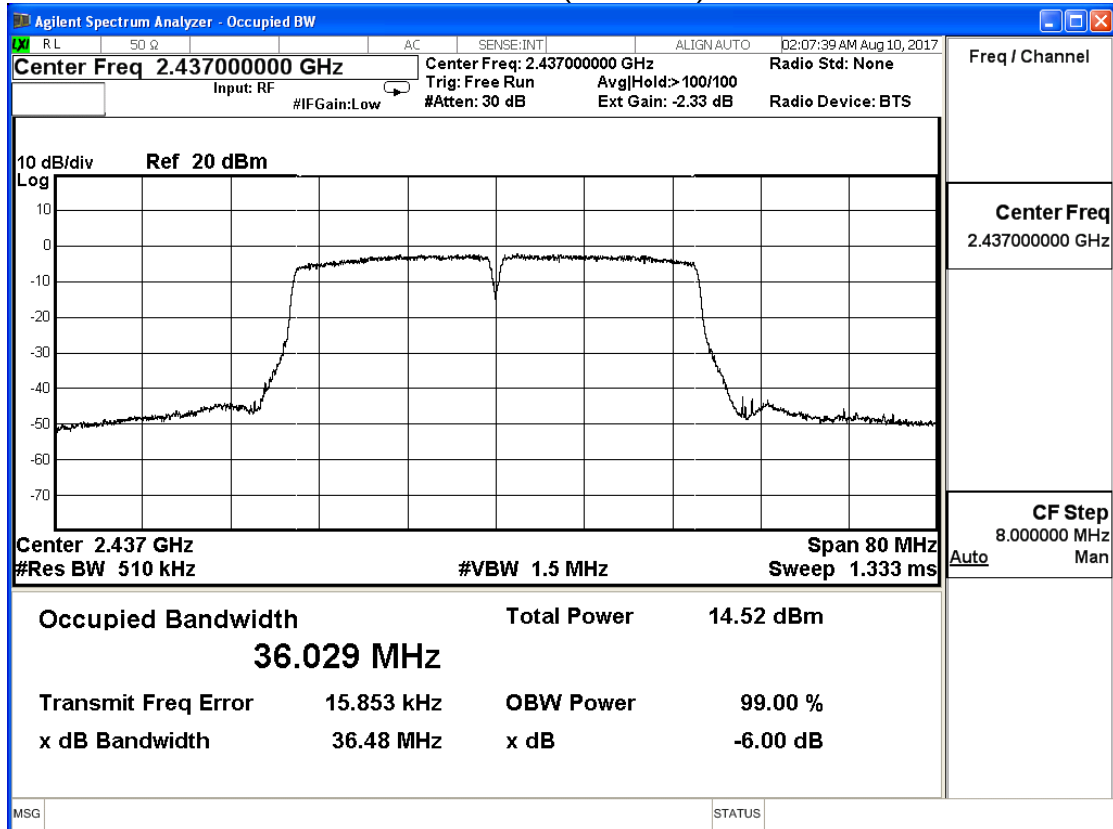
IEEE802.11n 40MHz (ANT 0)

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
3	2422	35.981	--	Pass
6	2437	36.029	--	Pass
9	2452	35.995	--	Pass

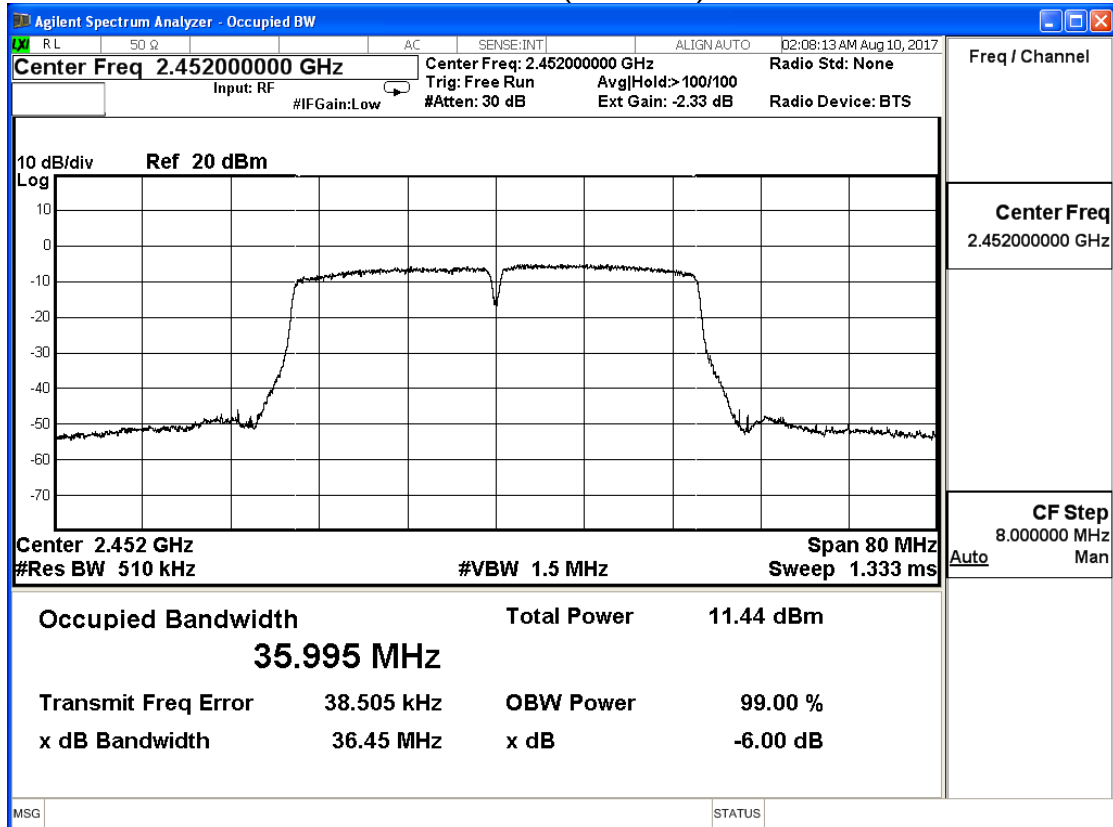
Channel 3 (2422MHz)



Channel 6 (2437MHz)



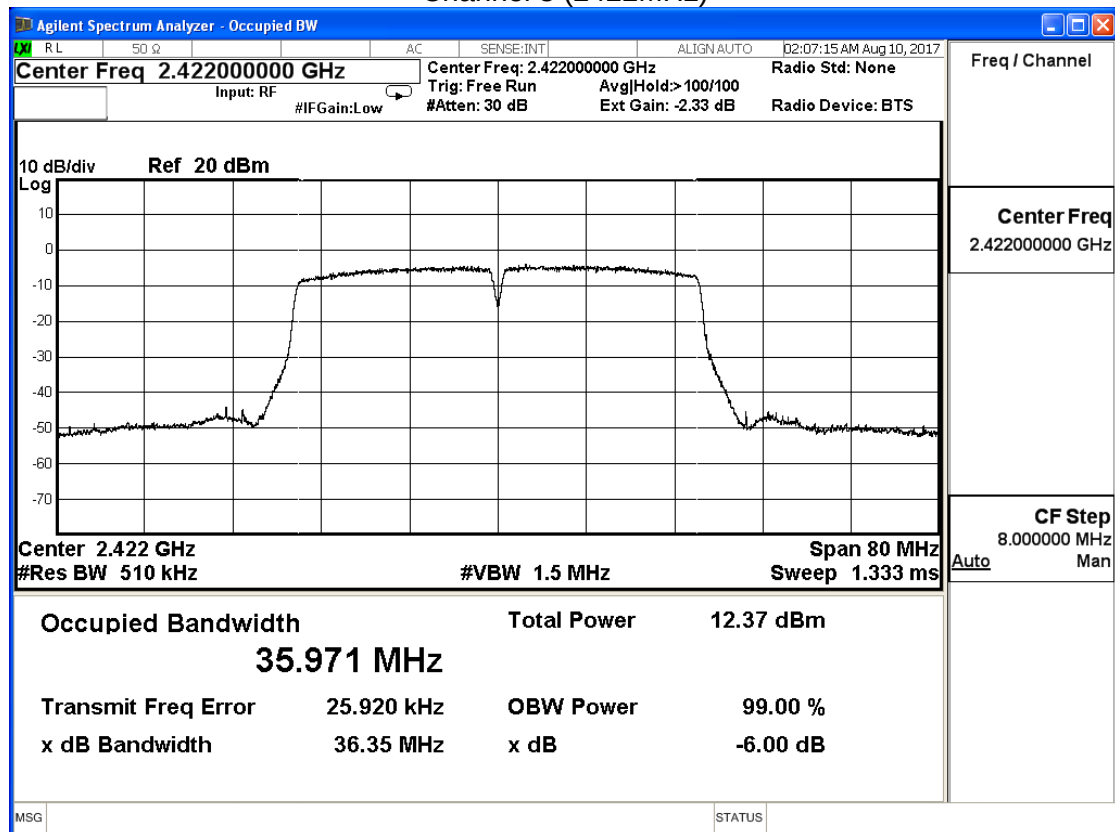
Channel 9 (2452MHz)



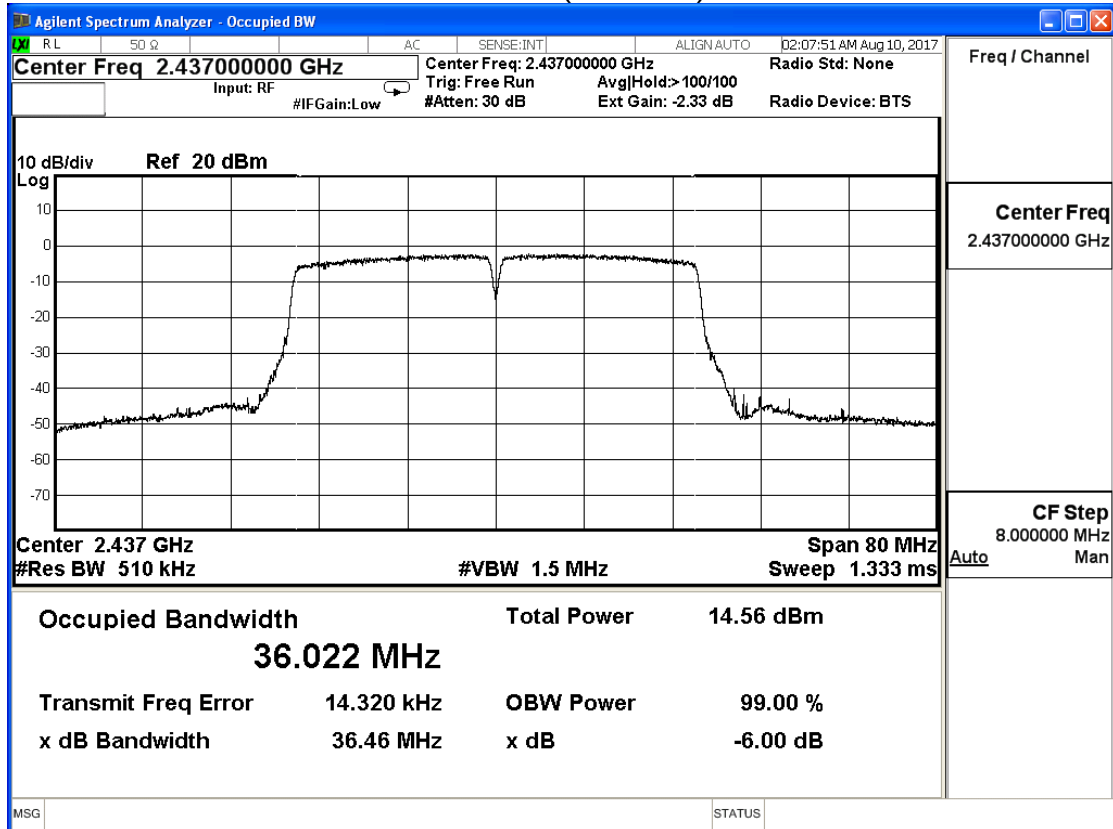
Product	Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP		
Test Item	Occupied Bandwidth		
Test Mode	Mode 2: Tx_MIMO Mode (802.11 n20/n40)		
Date of Test	2017/08/10	Test Site	SR10-H

IEEE802.11n 40MHz (ANT 1)				
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
3	2422	35.971	--	Pass
6	2437	36.022	--	Pass
9	2452	35.990	--	Pass

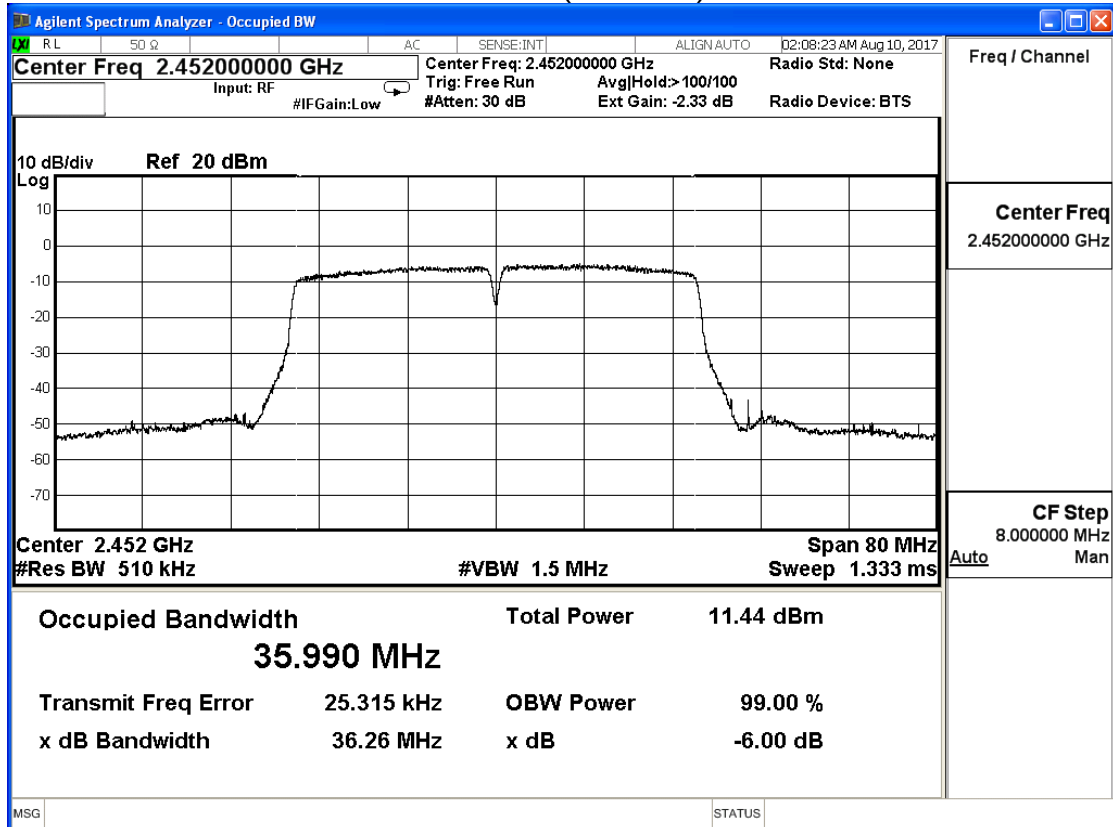
Channel 3 (2422MHz)



Channel 6 (2437MHz)



Channel 9 (2452MHz)



9. Power Density

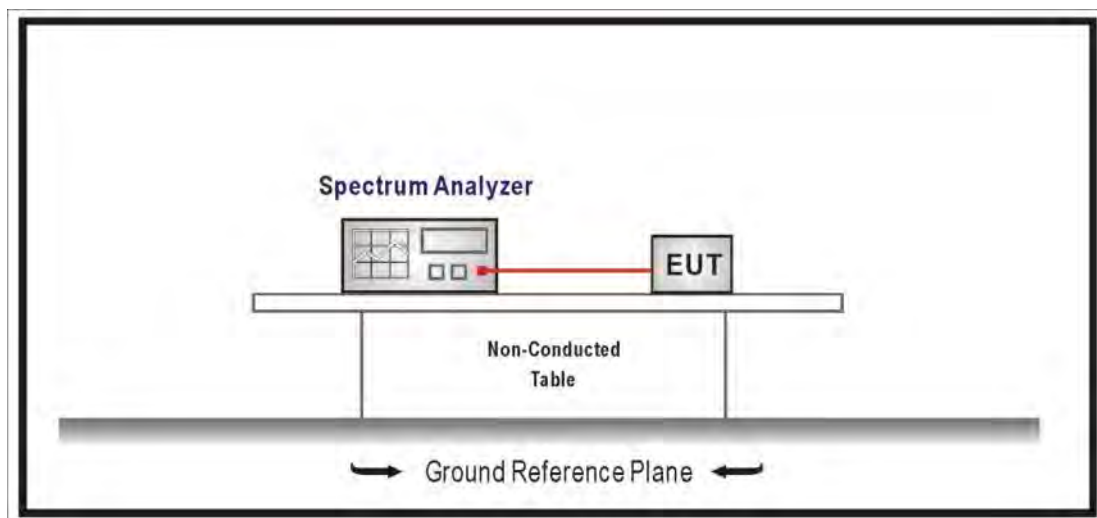
9.1. Test Equipment

The following test equipment is used during the test:

Power Density / SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal & Spectrum Analyzer	R&S	FSV40	101049	2017/01/23	2018/01/22
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2017/03/13	2018/03/12

9.2. Test Setup



9.3. Limits

The peak power spectral density conducted from the intentional radiated to the antenna shall not be greater than +8dBm in any 3kHz band during any time interval of continuous transmission.

9.4. Test Procedures

The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure section 10.2 of KDB558074 D01 V04 for compliance to FCC 47CFR 15.247 requirements. Set 3KHz $\leq$ RBW $\leq$ 100 kHz, Set VBW $\geq$ 3xRBW, Sweep time=Auto, Set Peak detector.

9.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2015

9.6. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB.

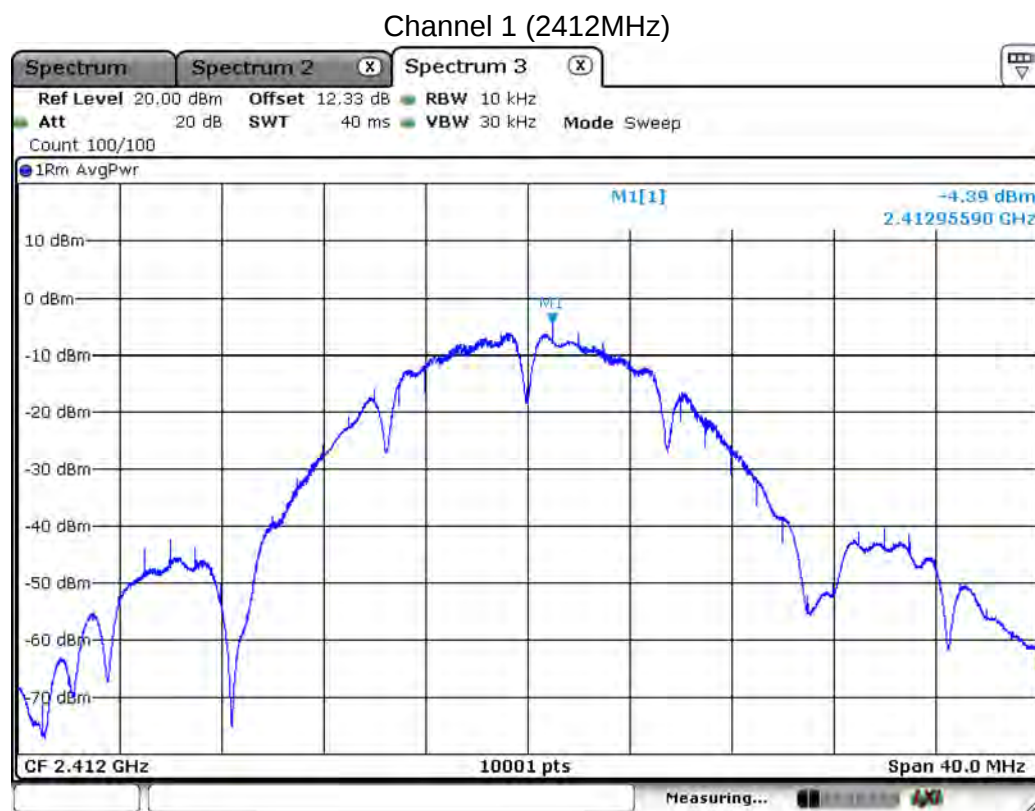
9.7. Test Result

Product	Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP		
Test Item	Power Density		
Test Mode	Mode 1: Tx_CDD Mode (802.11 b/g)		
Date of Test	2017/08/08	Test Site	SR10-H

IEEE 802.11b (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm/3KHz)	Result
1	2412	-4.390	≤ 4.99	Pass
6	2437	-5.200	≤ 4.99	Pass
11	2462	-6.970	≤ 4.99	Pass

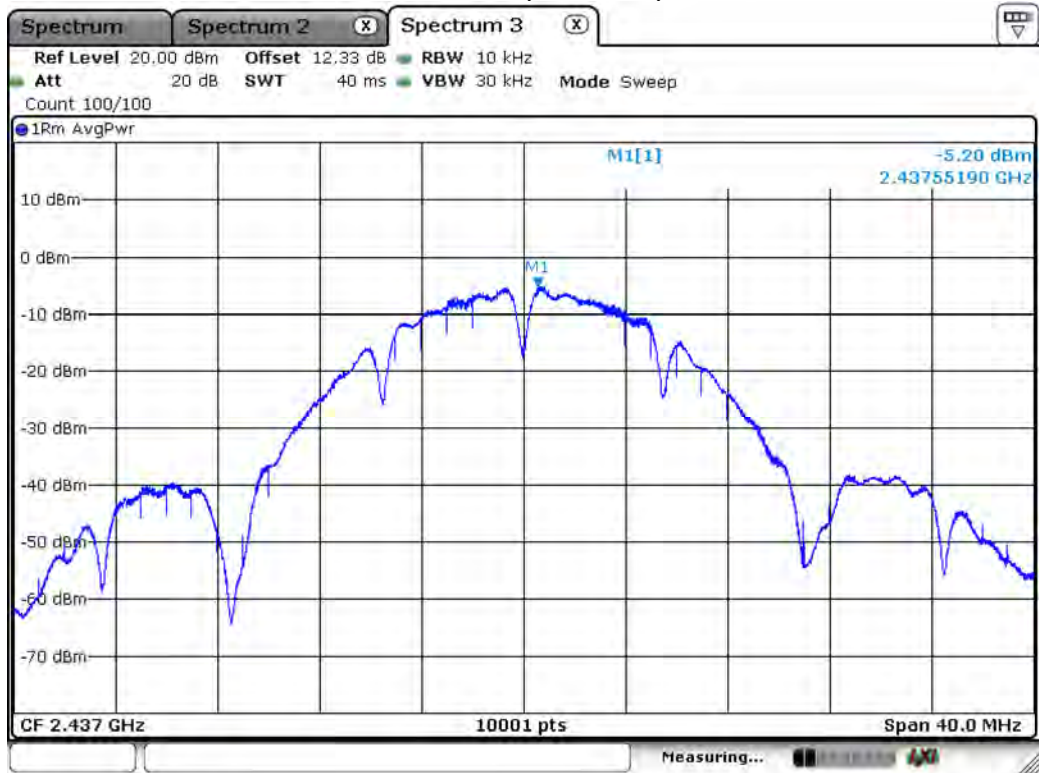
Directional gain=10log(ANT N)+Gain=3.01+6=9.01

Limit =8dBm-(9.01dBi-6dBi)=4.99dBm



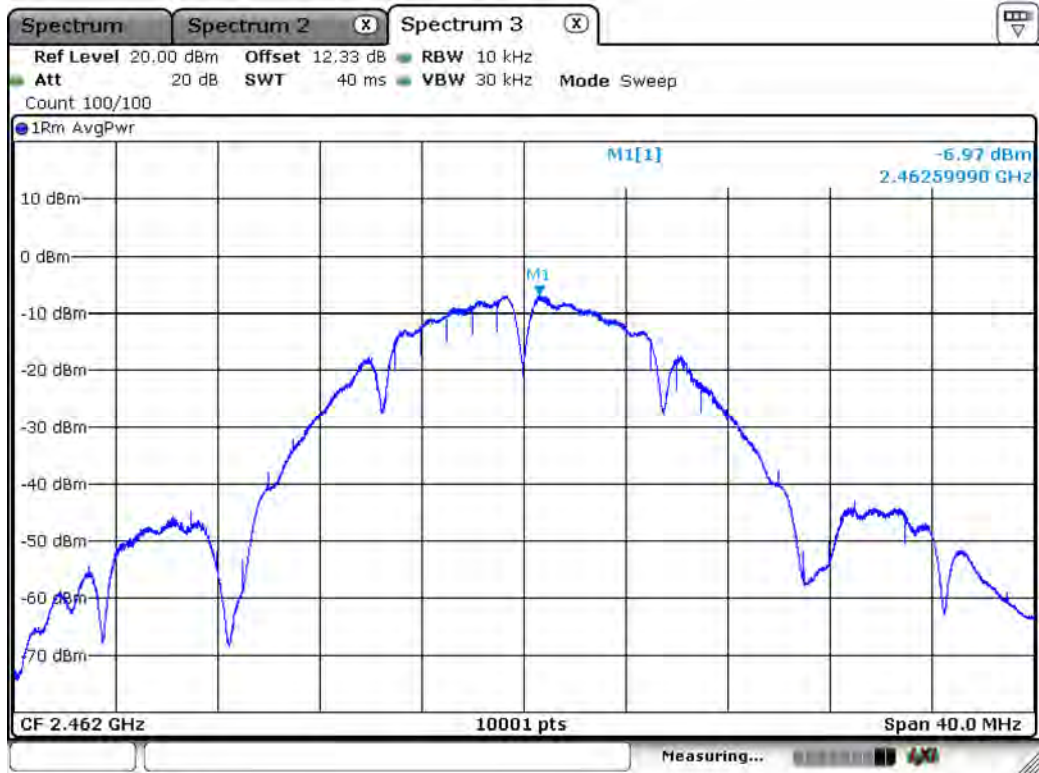
Date: 8.AUG.2017 06:30:49

Channel 6 (2437MHz)



Date: 8.AUG.2017 06:33:58

Channel 11 (2462MHz)



Date: 8.AUG.2017 06:35:12

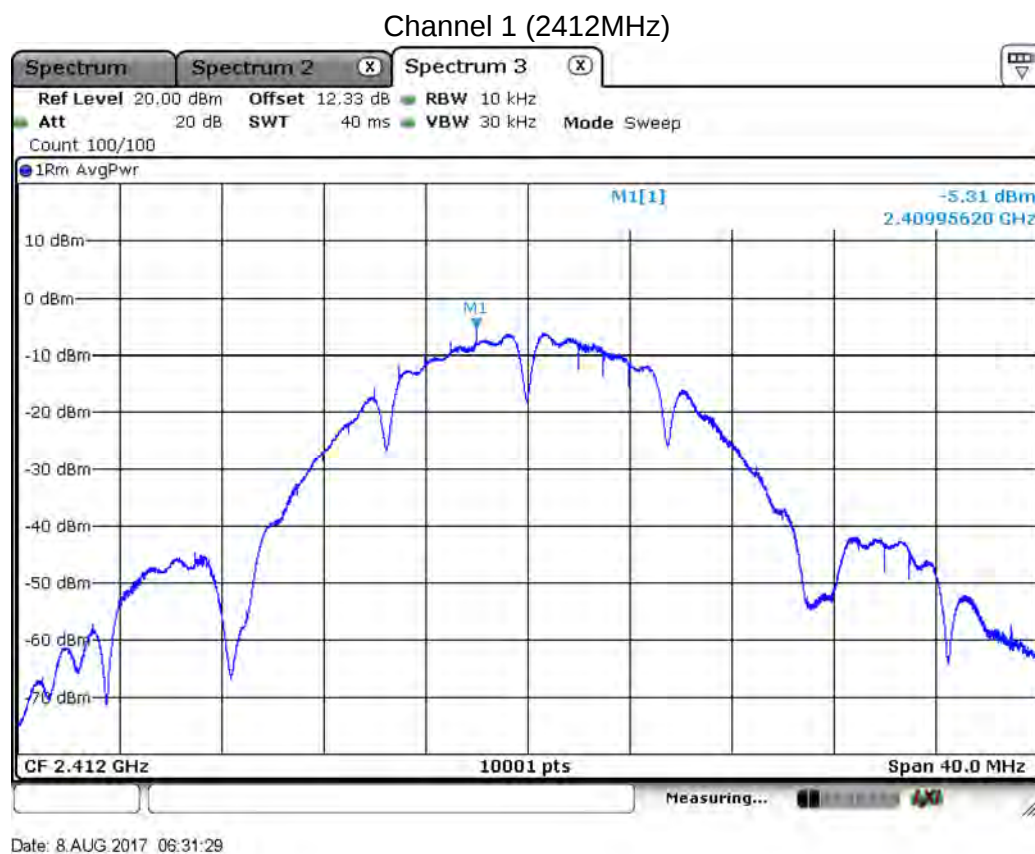
Product	Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP		
Test Item	Power Density		
Test Mode	Mode 1: Tx_CDD Mode (802.11 b/g)		
Date of Test	2017/08/08	Test Site	SR10-H

IEEE 802.11b (ANT 1)

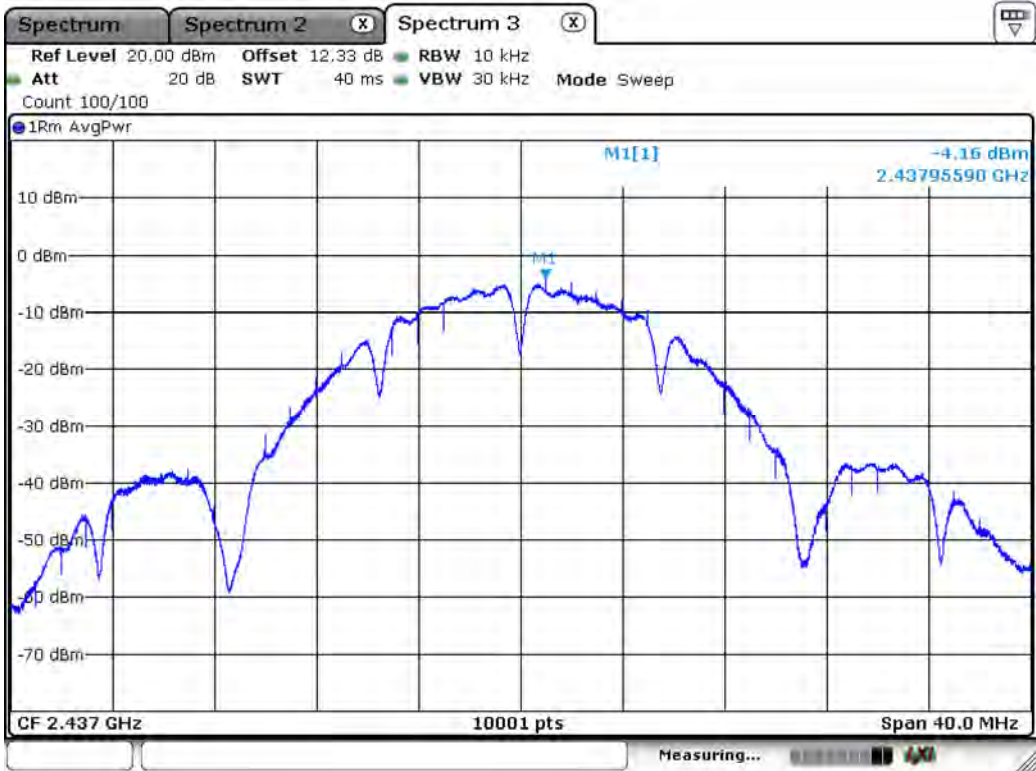
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm/3KHz)	Result
1	2412	-5.310	≤ 4.99	Pass
6	2437	-4.160	≤ 4.99	Pass
11	2462	-5.860	≤ 4.99	Pass

Directional gain=10log(ANT N)+Gain=3.01+6=9.01

Limit =8dBm-(9.01dBi-6dBi)=4.99dBm

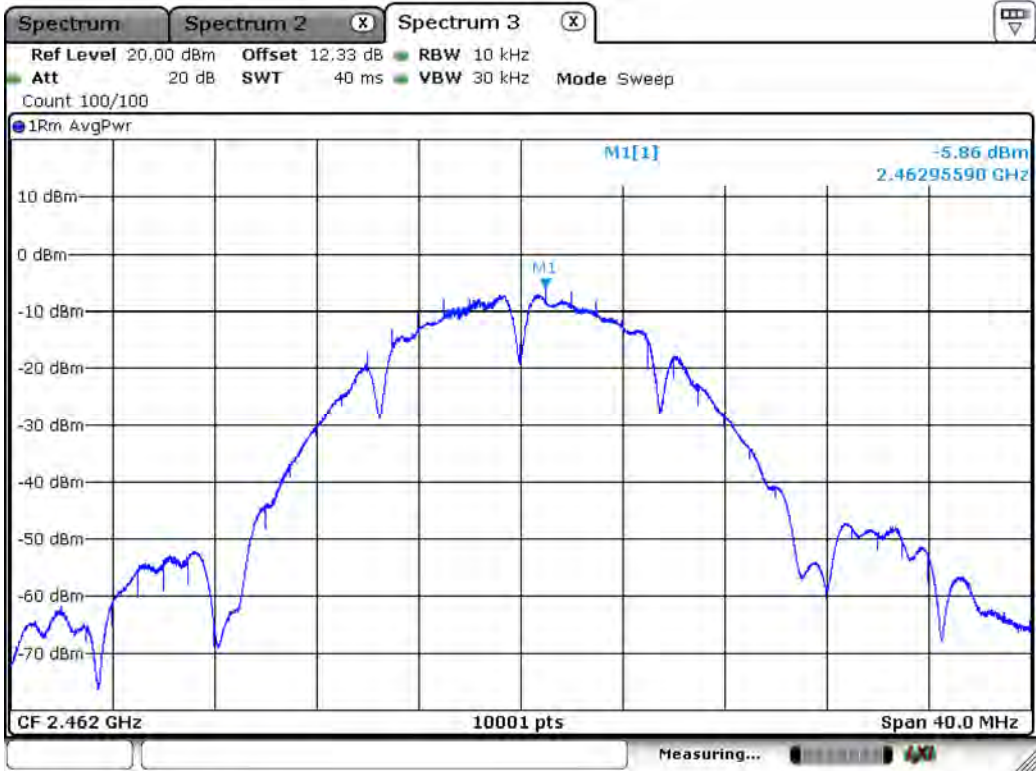


Channel 6 (2437MHz)



Date: 8.AUG.2017 06:34:23

Channel 11 (2462MHz)



Date: 8.AUG.2017 06:35:56

Product	Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP		
Test Item	Power Density		
Test Mode	Mode 1: Tx_CDD Mode (802.11 b/g)		
Date of Test	2017/08/08	Test Site	SR10-H

IEEE 802.11b (ANT 0+1)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm/3KHz)	Result
1	2412	-1.815	≤ 4.99	Pass
6	2437	-1.639	≤ 4.99	Pass
11	2462	-3.369	≤ 4.99	Pass

Directional gain=10log(ANT N)+Gain=3.01+6=9.01

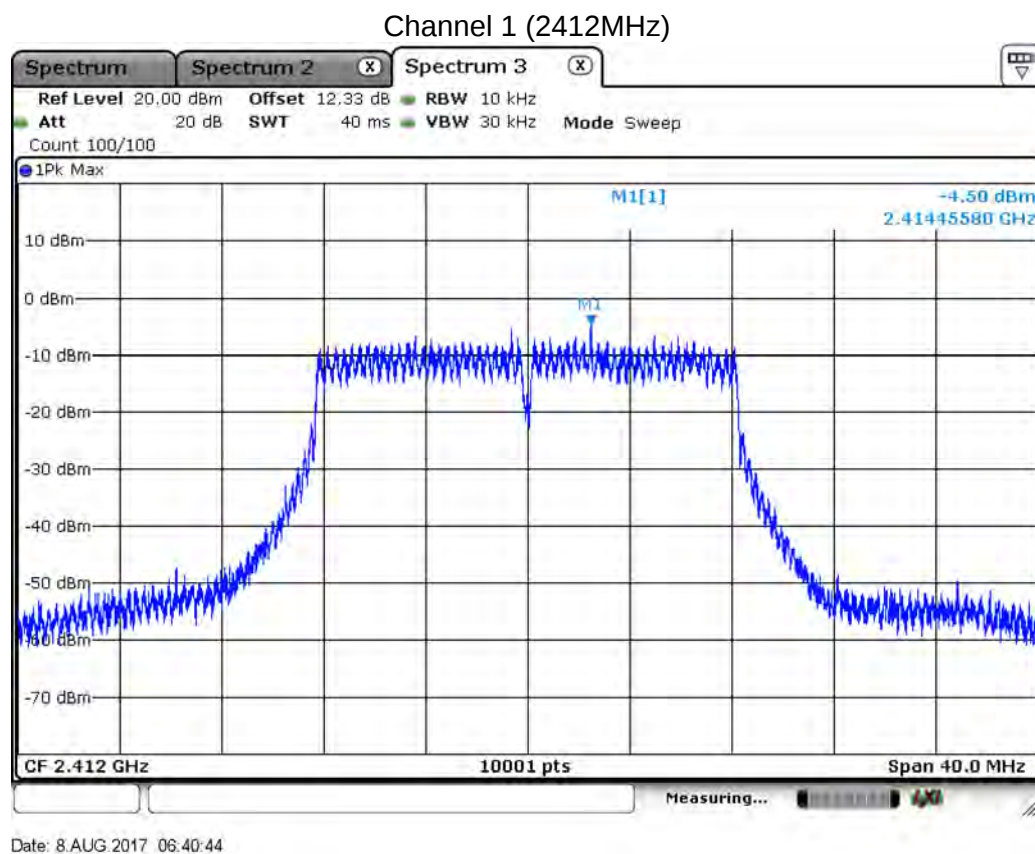
Limit =8dBm-(9.01dBi-6dBi)=4.99dBm

Product	Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP		
Test Item	Power Density		
Test Mode	Mode 1: Tx_CDD Mode (802.11 b/g)		
Date of Test	2017/08/08	Test Site	SR10-H

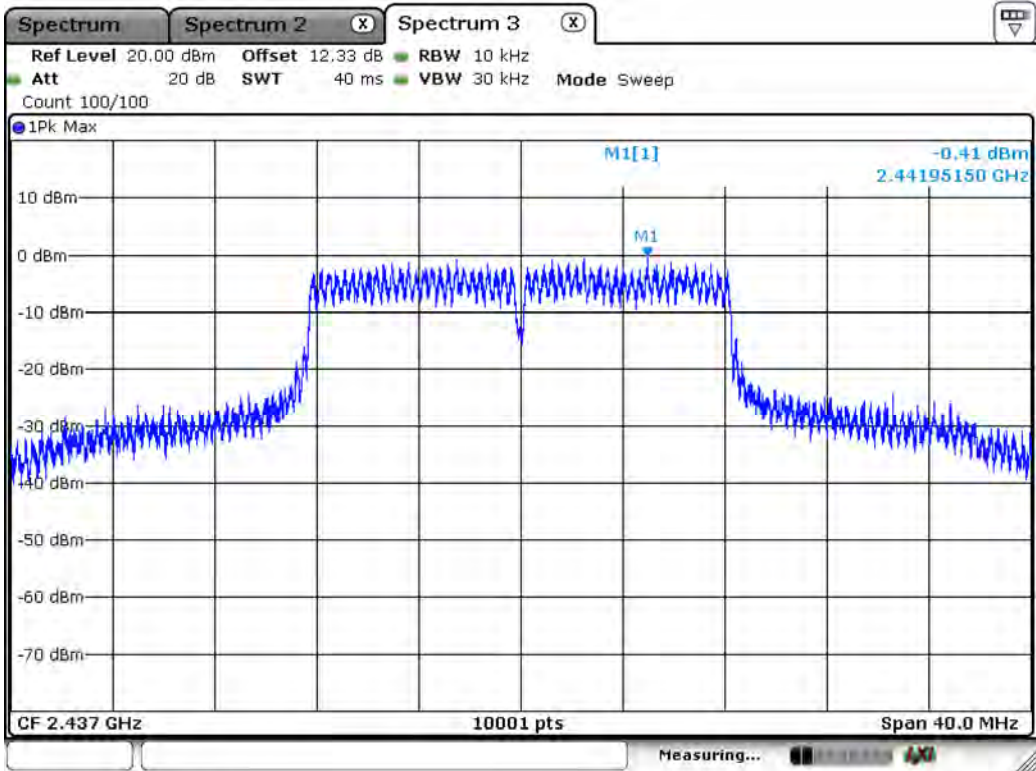
IEEE 802.11g (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm/3KHz)	Result
1	2412	-4.500	≤ 4.99	Pass
6	2437	-0.410	≤ 4.99	Pass
11	2462	-4.680	≤ 4.99	Pass

Directional gain=10log(ANT N)+Gain=3.01+6=9.01

Limit =8dBm-(9.01dBi-6dBi)=4.99dBm

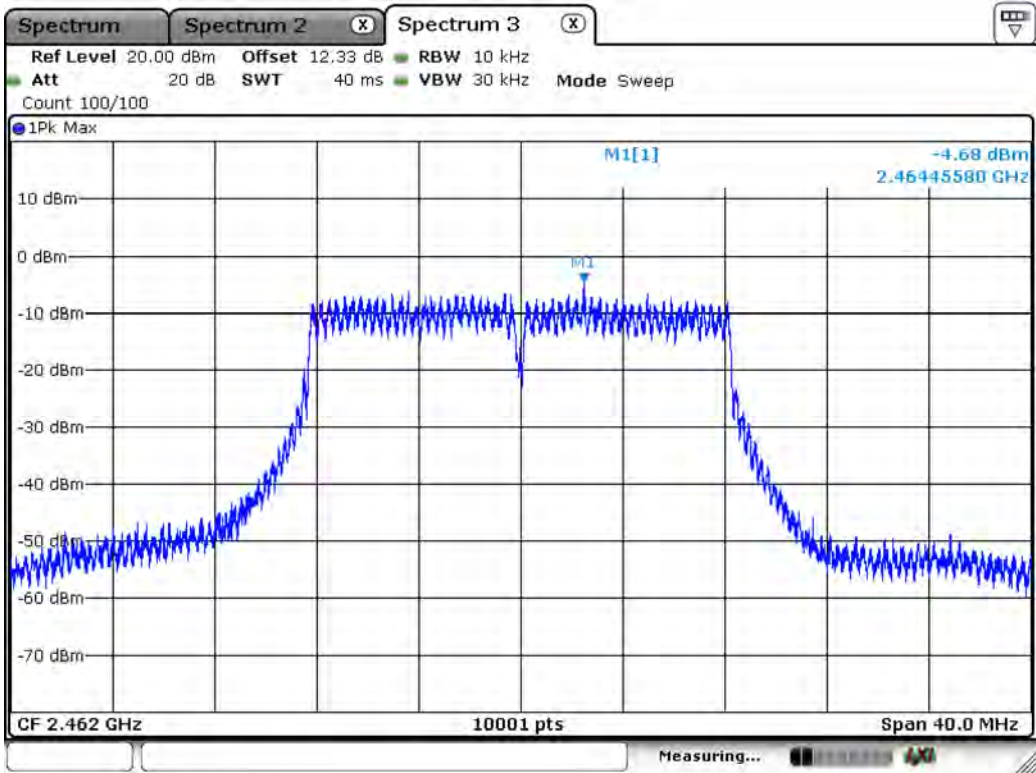


Channel 6 (2437MHz)



Date: 8.AUG.2017 06:48:37

Channel 11 (2462MHz)



Date: 8.AUG.2017 06:48:30

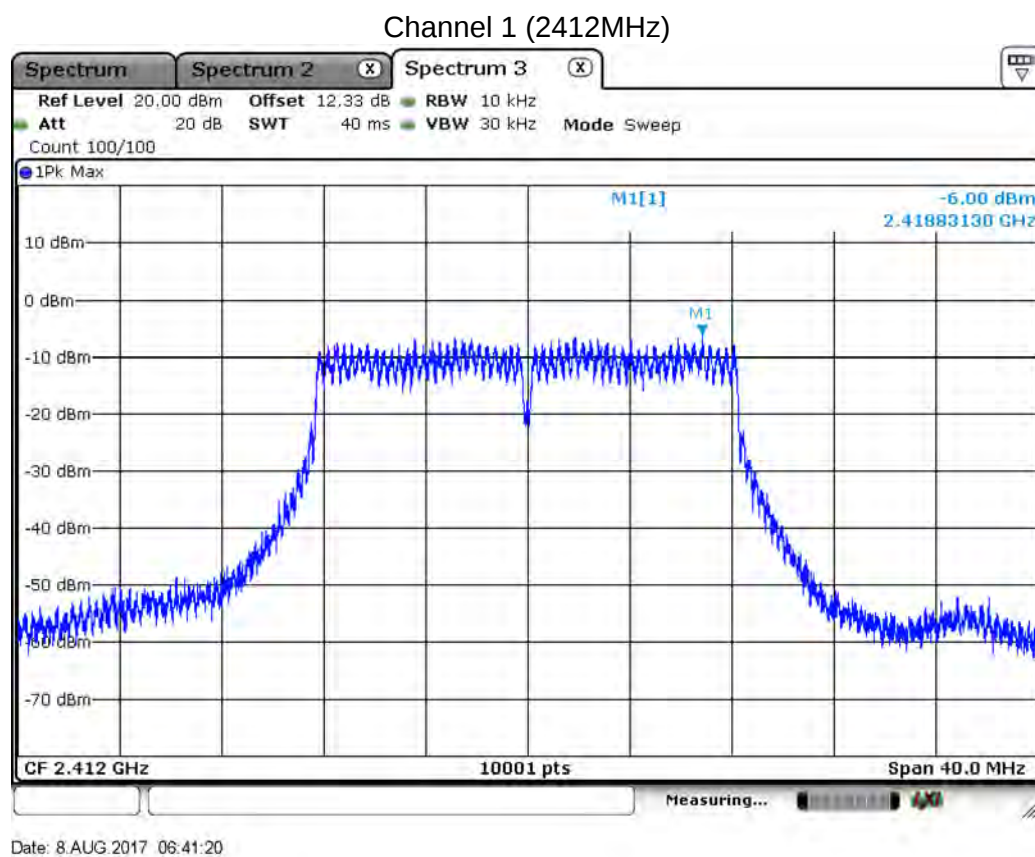
Product	Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP		
Test Item	Power Density		
Test Mode	Mode 1: Tx_CDD Mode (802.11 b/g)		
Date of Test	2017/08/08	Test Site	SR10-H

IEEE 802.11g (ANT 1)

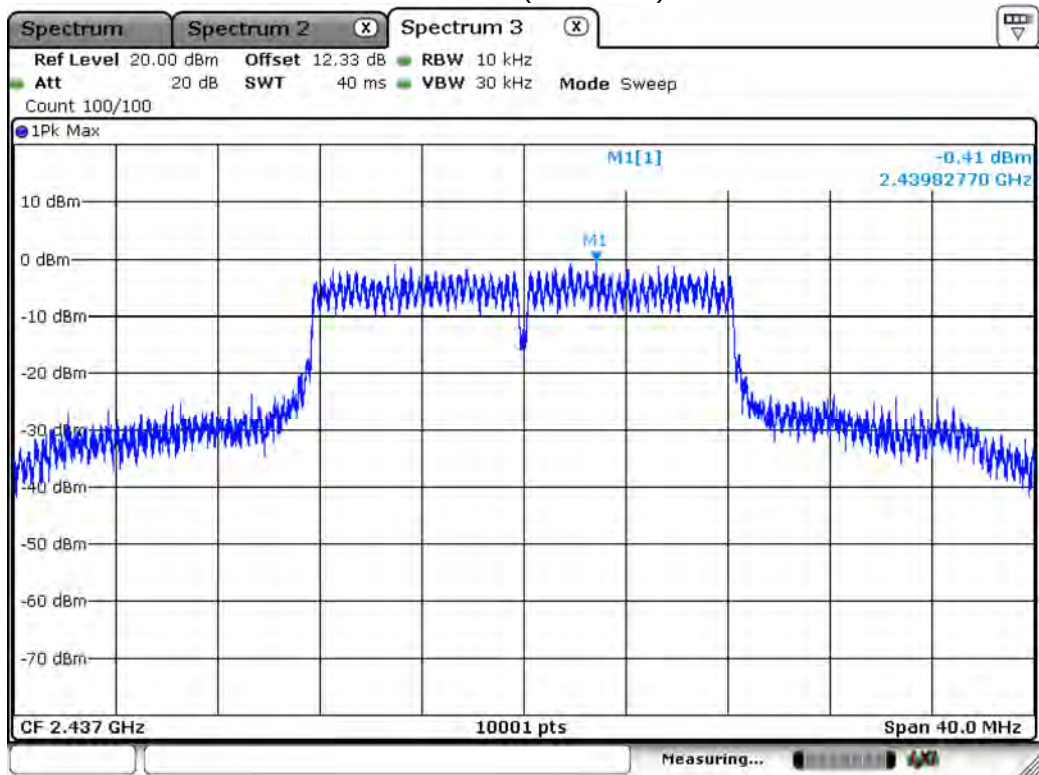
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm/3KHz)	Result
1	2412	-6.000	≤ 4.99	Pass
6	2437	-0.410	≤ 4.99	Pass
11	2462	-6.530	≤ 4.99	Pass

Directional gain=10log(ANT N)+Gain=3.01+6=9.01

Limit =8dBm-(9.01dBi-6dBi)=4.99dBm

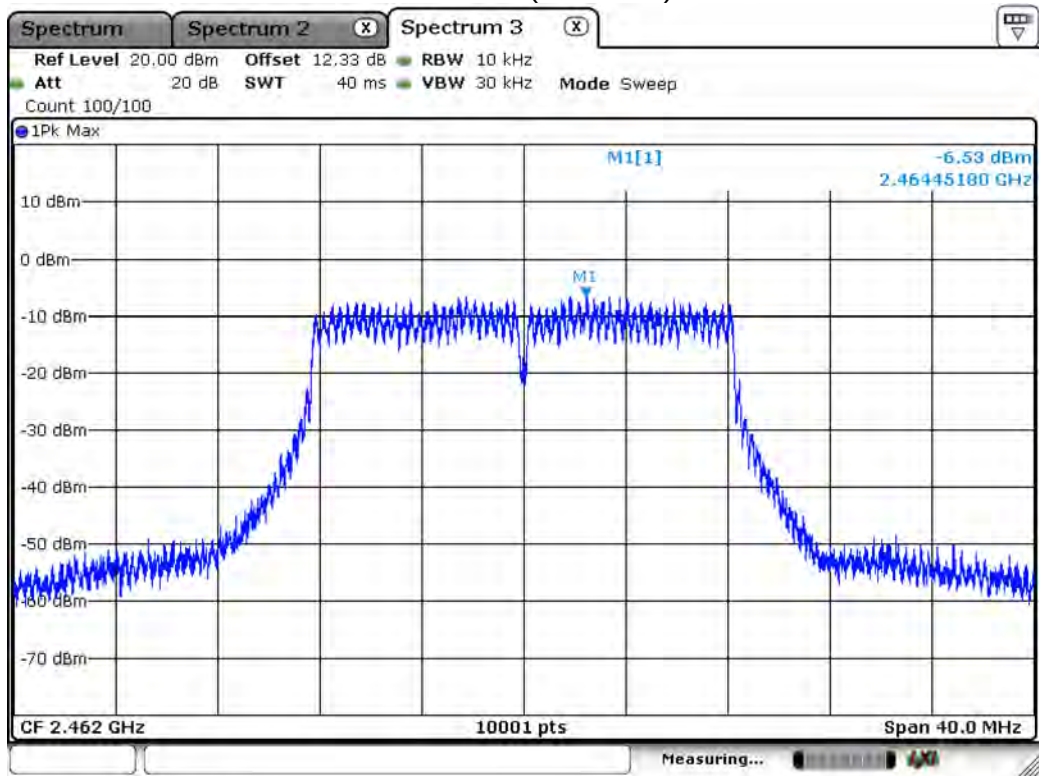


Channel 6 (2437MHz)



Date: 8.AUG.2017 06:44:06

Channel 11 (2462MHz)



Date: 8.AUG.2017 06:49:20

Product	Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP		
Test Item	Power Density		
Test Mode	Mode 1: Tx_CDD Mode (802.11 b/g)		
Date of Test	2017/08/08	Test Site	SR10-H

IEEE 802.11g (ANT 0+1)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm/3KHz)	Result
1	2412	-2.175	≤ 4.99	Pass
6	2437	2.600	≤ 4.99	Pass
11	2462	-2.497	≤ 4.99	Pass

Directional gain=10log(ANT N)+Gain=3.01+6=9.01

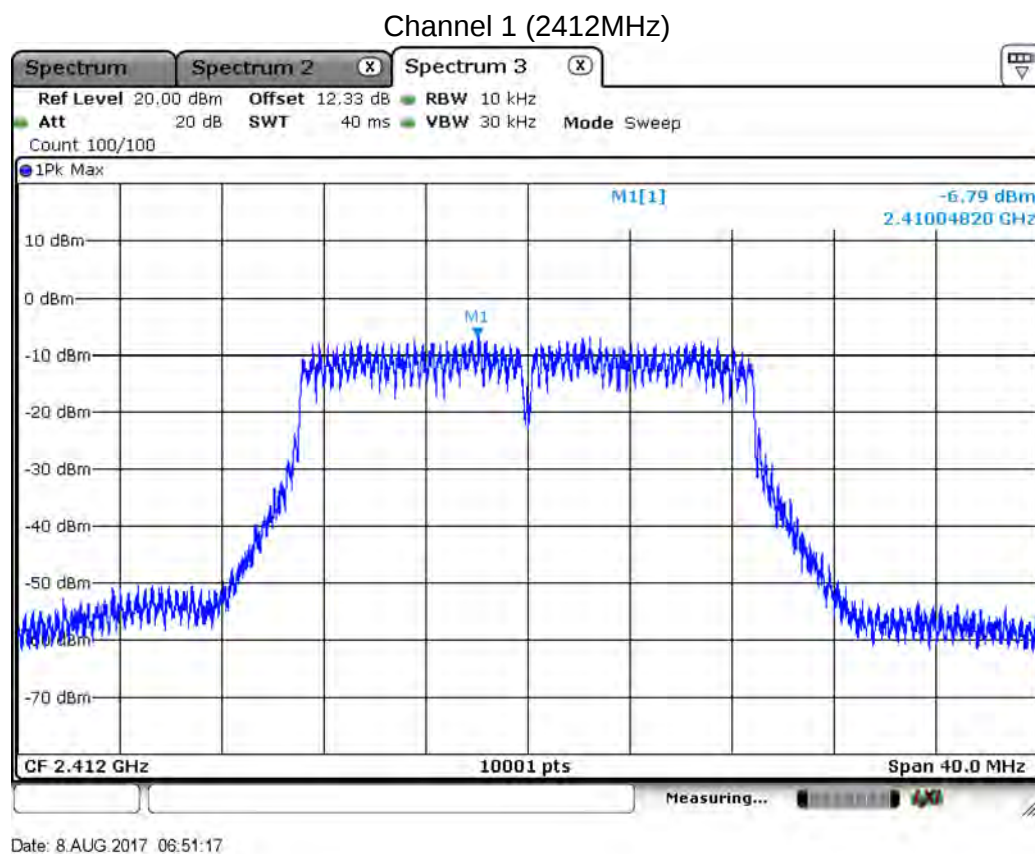
Limit =8dBm-(9.01dBi-6dBi)=4.99dBm

Product	Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP		
Test Item	Power Density		
Test Mode	Mode 2: Tx_MIMO Mode (802.11 n20/n40)		
Date of Test	2017/08/08	Test Site	SR10-H

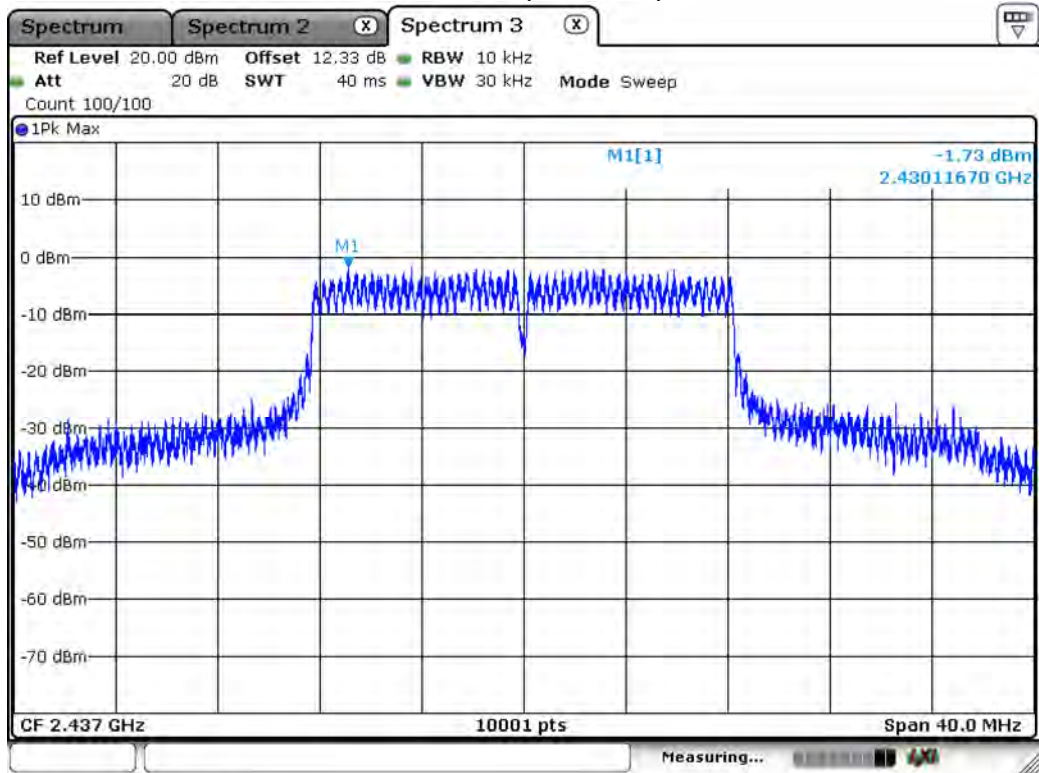
IEEE802.11n 20MHz (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm/3KHz)	Result
1	2412	-6.790	≤ 4.99	Pass
6	2437	-1.730	≤ 4.99	Pass
11	2462	-7.070	≤ 4.99	Pass

Directional gain=10log(ANT N)+Gain=3.01+6=9.01

Limit =8dBm-(9.01dBi-6dBi)=4.99dBm

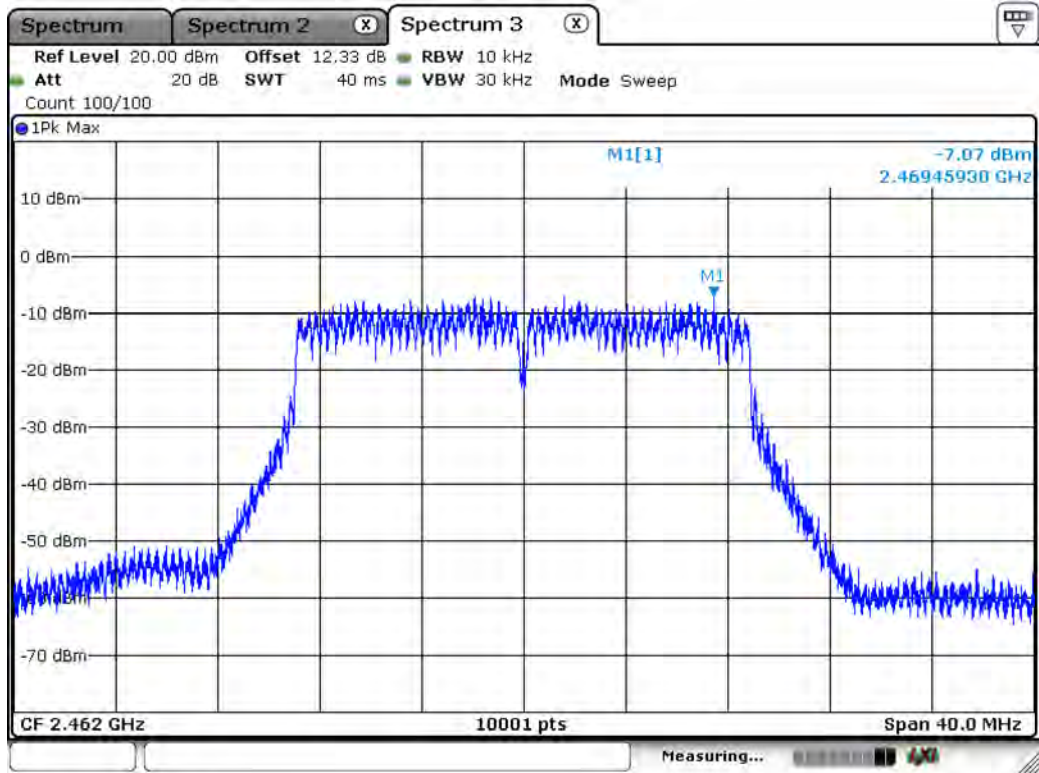


Channel 6 (2437MHz)



Date: 8.AUG.2017 06:53:09

Channel 11 (2462MHz)



Date: 8.AUG.2017 06:54:10

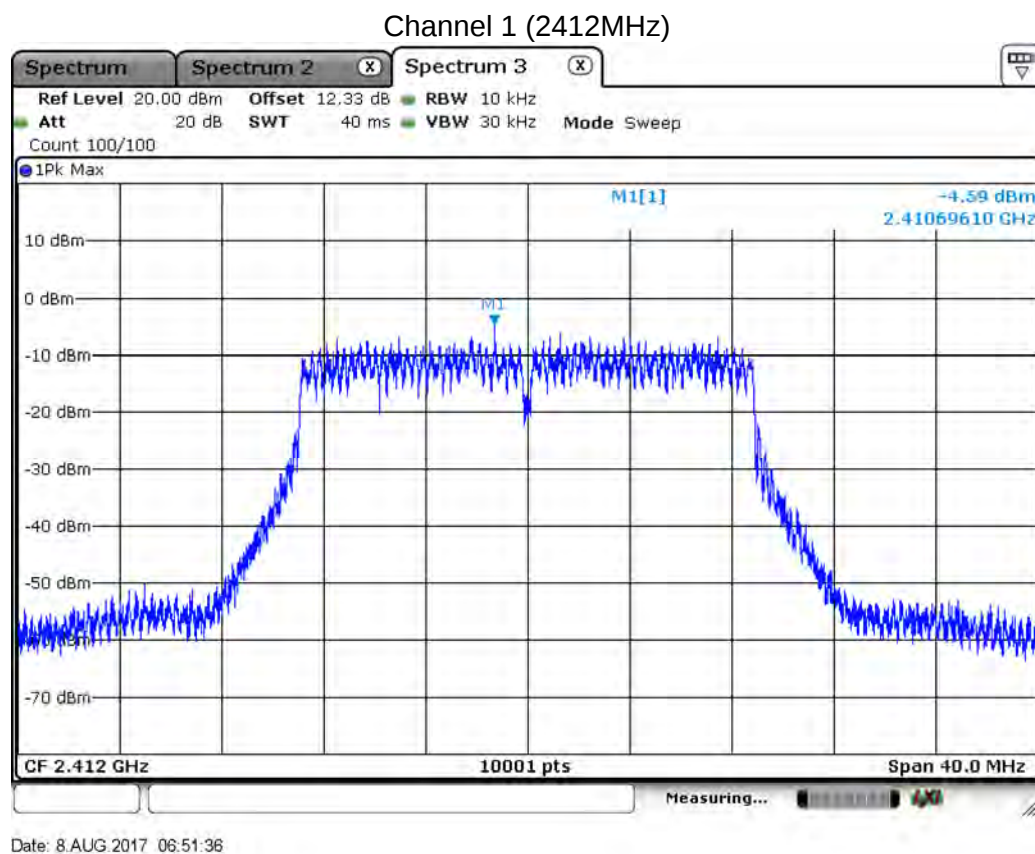
Product	Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP		
Test Item	Power Density		
Test Mode	Mode 2: Tx_MIMO Mode (802.11 n20/n40)		
Date of Test	2017/08/08	Test Site	SR10-H

IEEE802.11n 20MHz (ANT 1)

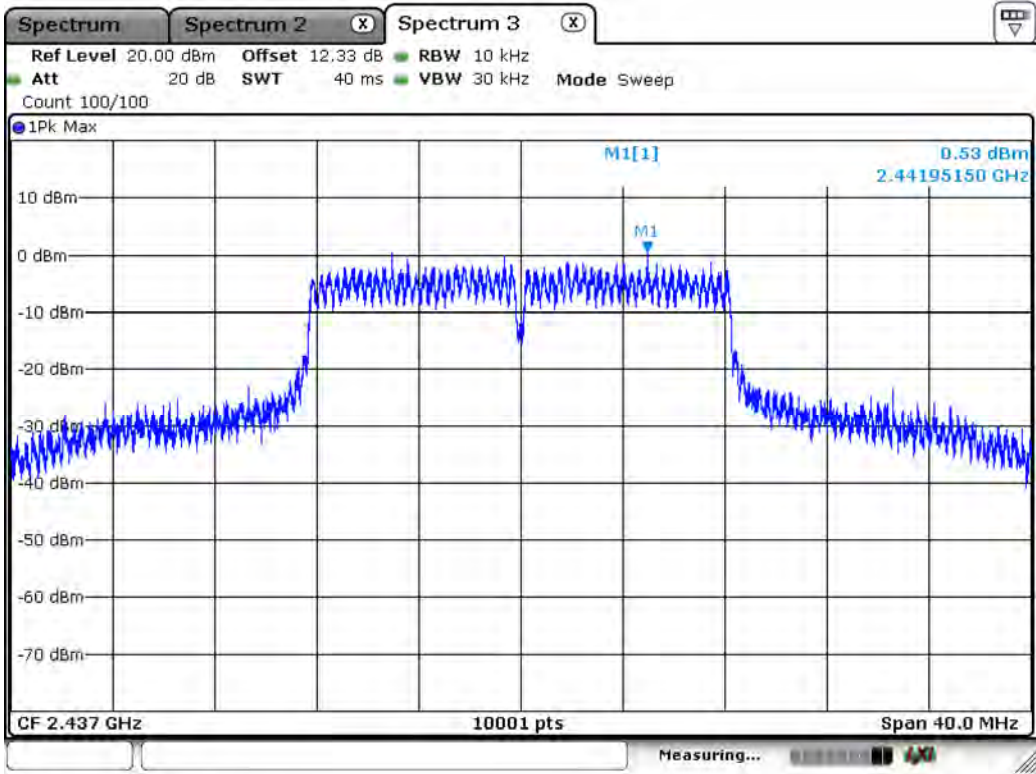
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm/3KHz)	Result
1	2412	-4.590	≤ 4.99	Pass
6	2437	0.530	≤ 4.99	Pass
11	2462	-6.000	≤ 4.99	Pass

Directional gain=10log(ANT N)+Gain=3.01+6=9.01

Limit =8dBm-(9.01dBi-6dBi)=4.99dBm

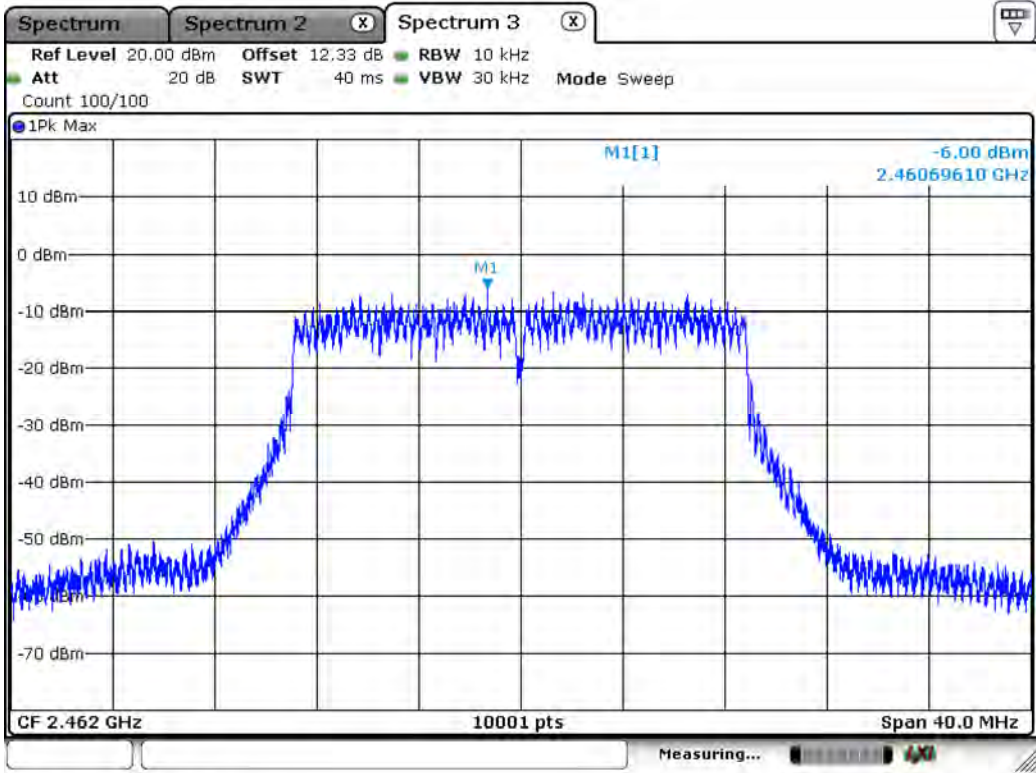


Channel 6 (2437MHz)



Date: 8.AUG.2017 06:52:43

Channel 11 (2462MHz)



Date: 8.AUG.2017 06:54:36

Product	Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP		
Test Item	Power Density		
Test Mode	Mode 2: Tx_MIMO Mode (802.11 n20/n40)		
Date of Test	2017/08/08	Test Site	SR10-H

IEEE802.11n 20MHz (ANT 0+1)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm/3KHz)	Result
1	2412	-2.542	≤ 4.99	Pass
6	2437	2.556	≤ 4.99	Pass
11	2462	-3.492	≤ 4.99	Pass

Directional gain=10log(ANT N)+Gain=3.01+6=9.01

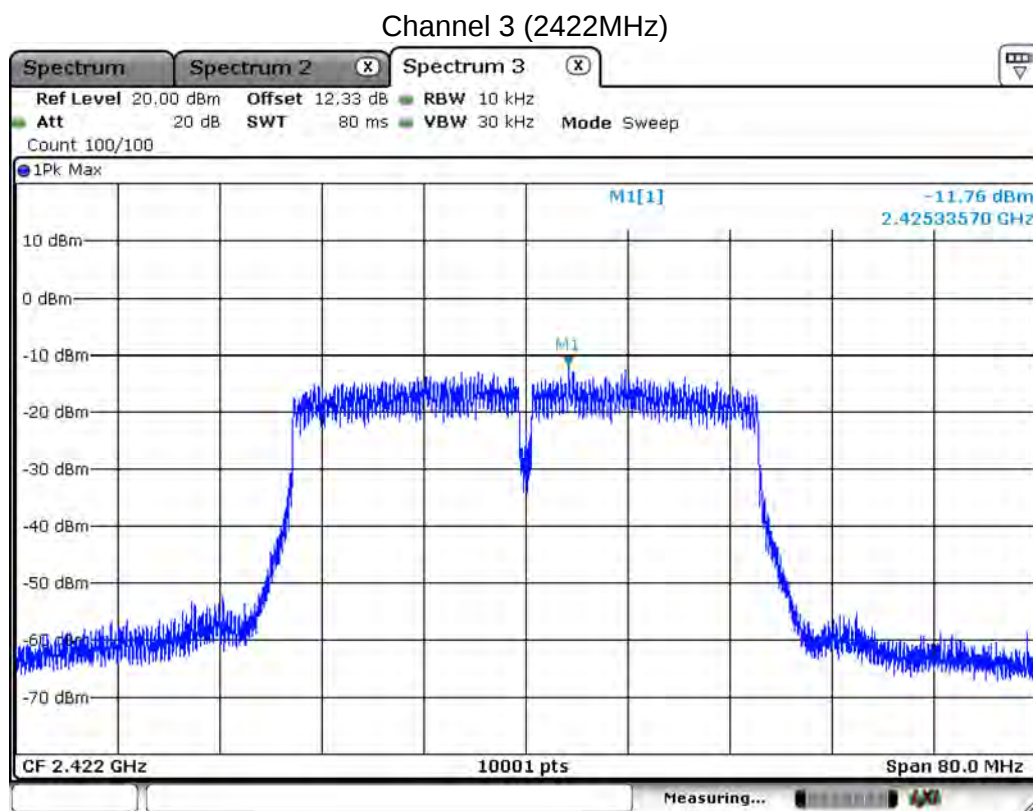
Limit =8dBm-(9.01dBi-6dBi)=4.99dBm

Product	Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP		
Test Item	Power Density		
Test Mode	Mode 2: Tx_MIMO Mode (802.11 n20/n40)		
Date of Test	2017/08/08	Test Site	SR10-H

IEEE802.11n 40MHz (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm/3KHz)	Result
3	2422	-11.760	≤ 4.99	Pass
6	2437	-10.110	≤ 4.99	Pass
9	2452	-12.790	≤ 4.99	Pass

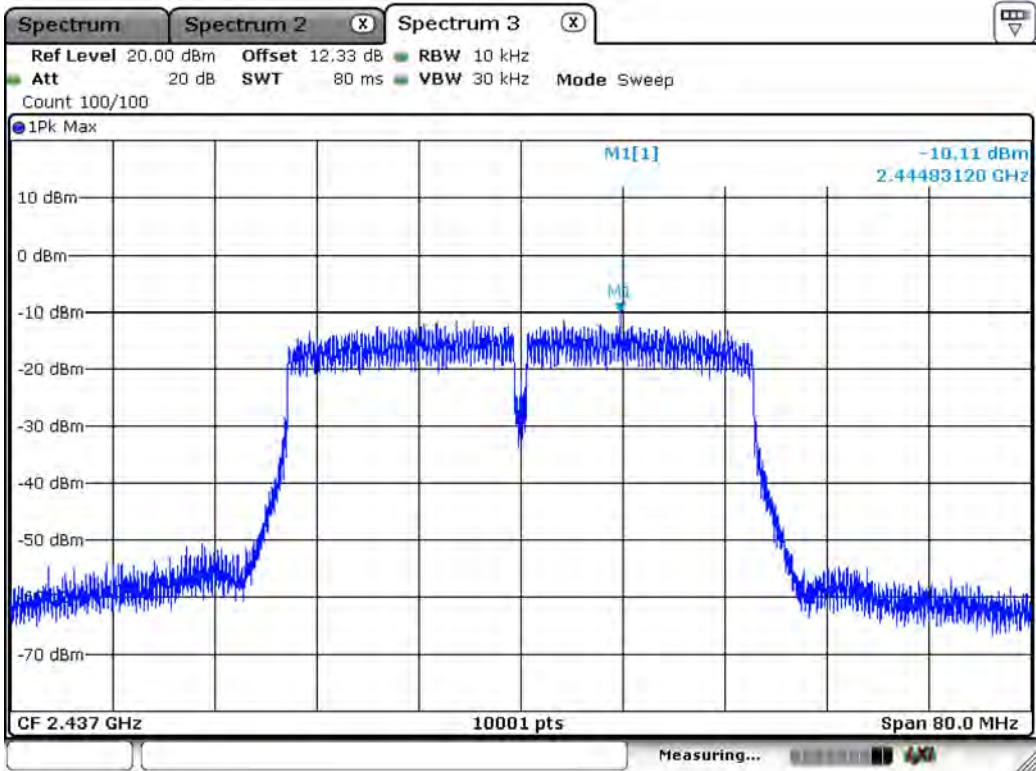
Directional gain=10log(ANT N)+Gain=3.01+6=9.01

Limit =8dBm-(9.01dBi-6dBi)=4.99dBm



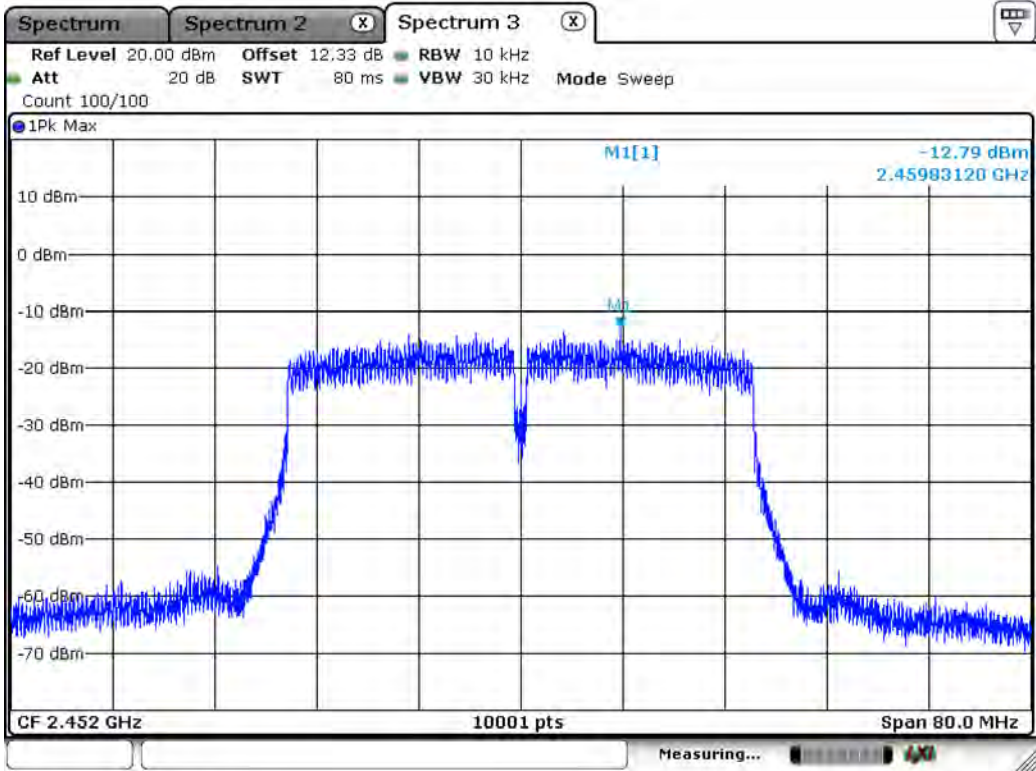
Date: 8.AUG 2017 06:58:16

Channel 6 (2437MHz)



Date: 8.AUG.2017 06:57:31

Channel 9 (2452MHz)



Date: 8.AUG.2017 06:59:26

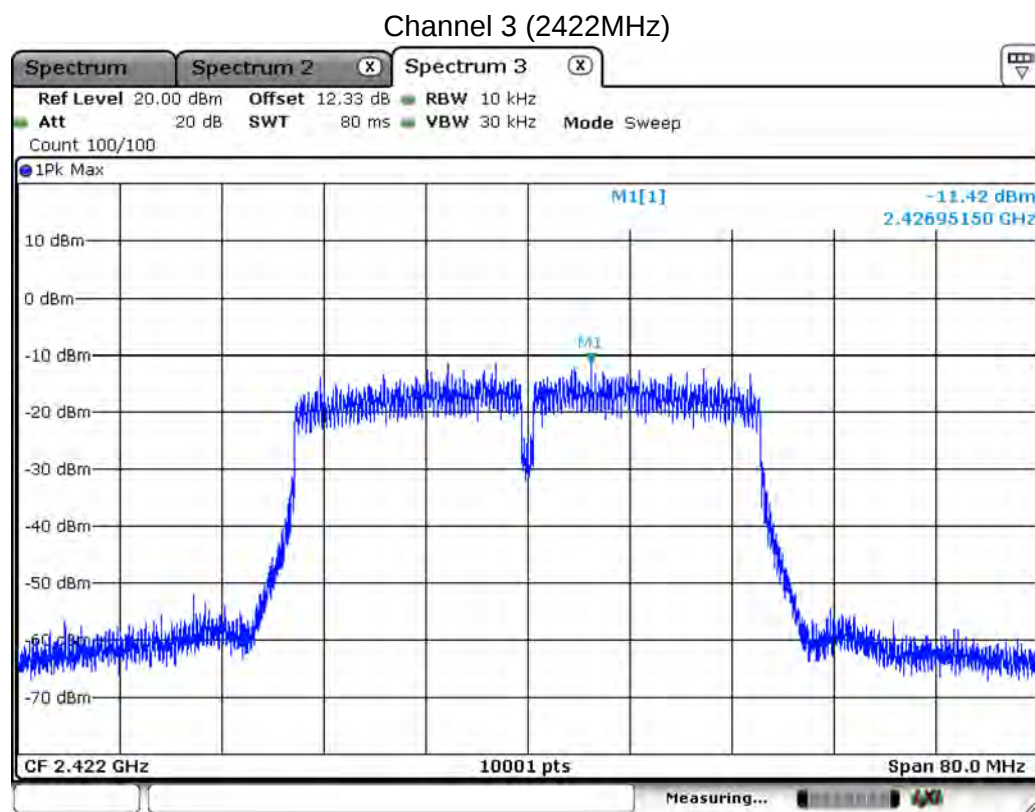
Product	Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP		
Test Item	Power Density		
Test Mode	Mode 2: Tx_MIMO Mode (802.11 n20/n40)		
Date of Test	2017/08/08	Test Site	SR10-H

IEEE802.11n 40MHz (ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm/3KHz)	Result
3	2422	-11.420	≤ 4.99	Pass
6	2437	-9.460	≤ 4.99	Pass
9	2452	-11.810	≤ 4.99	Pass

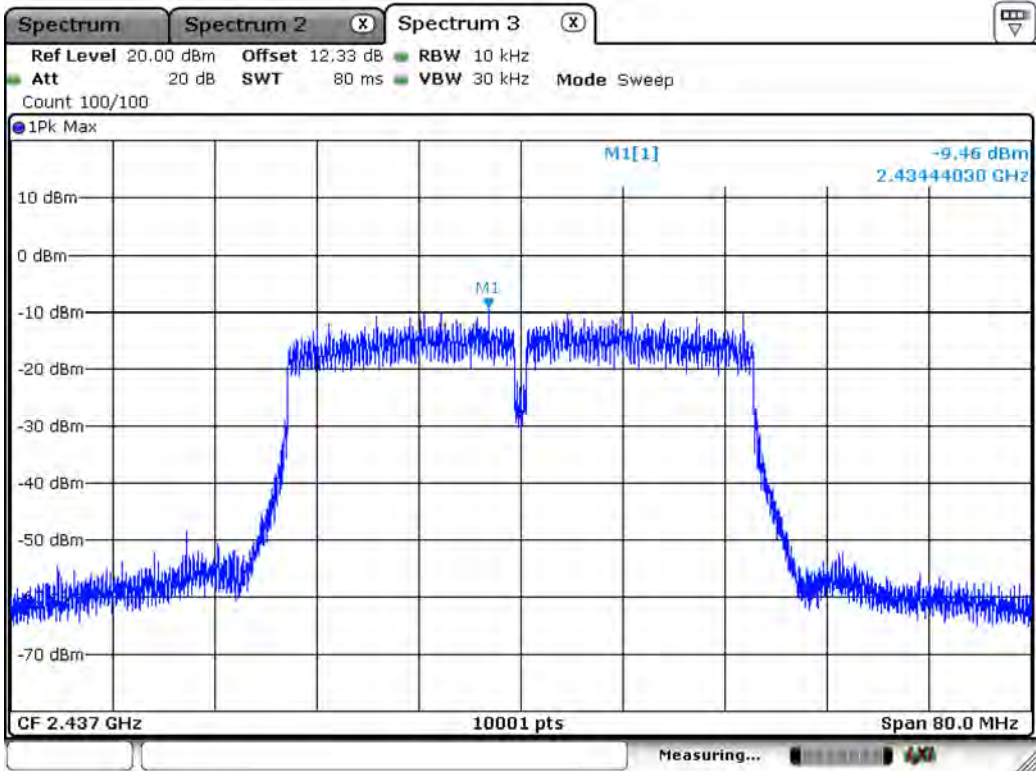
Directional gain=10log(ANT N)+Gain=3.01+6=9.01

Limit =8dBm-(9.01dBi-6dBi)=4.99dBm



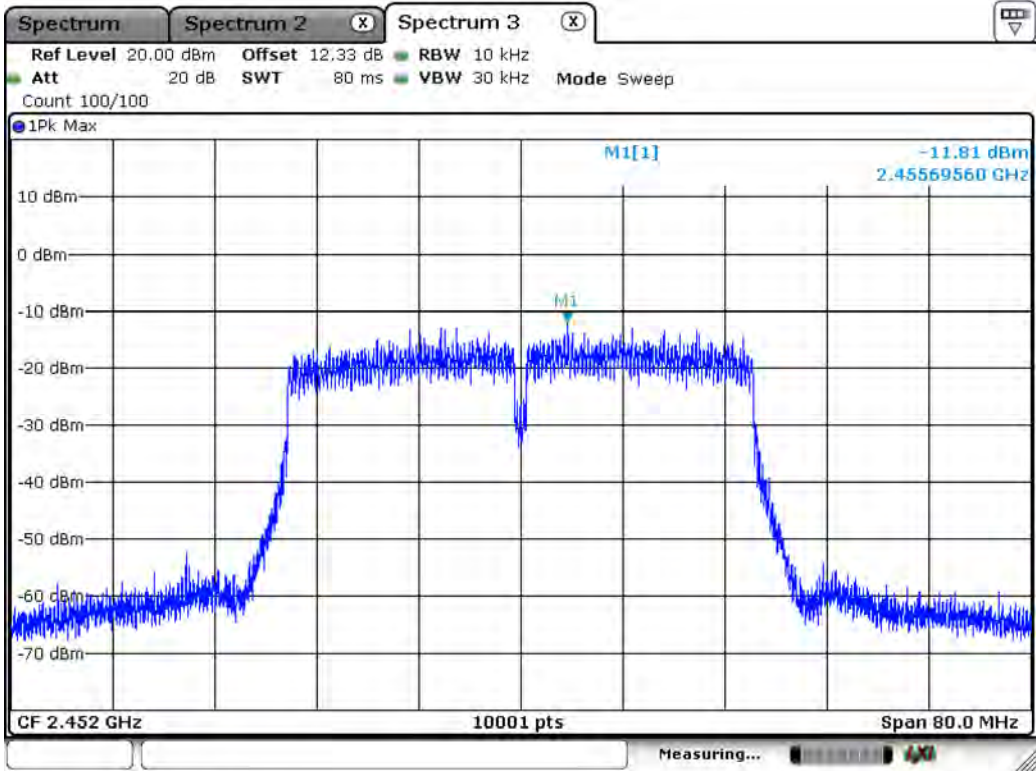
Date: 8.AUG 2017 06:58:43

Channel 6 (2437MHz)



Date: 8.AUG.2017 06:58:13

Channel 9 (2452MHz)



Date: 8.AUG.2017 07:00:02

Product	Spark Wave 2 AC1200 - Dualband Concurrent Enterprise AP		
Test Item	Power Density		
Test Mode	Mode 2: Tx_MIMO Mode (802.11 n20/n40)		
Date of Test	2017/08/08	Test Site	SR10-H

IEEE802.11n 40MHz (ANT 0+1)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm/3KHz)	Result
3	2422	-8.576	≤ 4.99	Pass
6	2437	-6.763	≤ 4.99	Pass
9	2452	-9.262	≤ 4.99	Pass

Directional gain=10log(ANT N)+Gain=3.01+6=9.01

Limit =8dBm-(9.01dBi-6dBi)=4.99dBm