

# FCC Test Report

Product Name : Wireless-AC2200 Tri Band Gigabit Router  
Trade Name : ASUS  
Model No. : Lyra Voice  
FCC ID. : MSQ-RTHU00

Applicant : ASUSTeK COMPUTER INC.

Address : 4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan

Date of Receipt : Jun. 24, 2018

Issued Date : Oct. 29, 2018

Report No. : 1860341R-RFUSP26V00

Report Version : V1.0



The test results relate only to the samples tested.

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# Test Report Certification

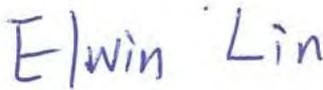
Issued Date : Oct. 29, 2018

Report No. : 1860341R-RFUSP26V00



Product Name : Wireless-AC2200 Tri Band Gigabit Router  
 Applicant : ASUSTeK COMPUTER INC.  
 Address : 4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan  
 Manufacturer : ASUSTeK COMPUTER INC.  
 Model No. : Lyra Voice  
 FCC ID. : MSQ-RTHU00  
 EUT Test Voltage : AC 100-240V, 50-60Hz  
 Testing Voltage : AC 120V/60Hz  
 Trade Name : ASUS  
 Applicable Standard : FCC CFR Title 47 Part 15 Subpart C Section 15.247: 2017  
 ANSI C63.10: 2013  
 KDB 558074 D01 V05 / KDB 662911 D01 V02r01  
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 Test Result : Complied

Documented By :   
 ( Carol Tsai / Senior Engineering Adm. Specialist )

Tested By :   
 ( Elwin Lin / Engineer )

Approved By :   
 ( Roy Wang / Director )

### Revision History

Report No.	Version	Description	Issued Date
1860341R-RFUSP26V00	V1.0	Initial issue of report	Oct. 29, 2018

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## 1. General Information

### 1.1. EUT Description

Product Name	Wireless-AC2200 Tri Band Gigabit Router	
Trade Name	ASUS	
Model No.	Lyra Voice	
Frequency Range/ Channel Number	IEEE 802.11b/g	2412~2462MHz / 11 Channels
	IEEE 802.11n/ac (20MHz)	
	IEEE 802.11n/ac (40MHz)	2422~2452MHz / 7 Channels
Type of Modulation	IEEE 802.11b	Direct Sequence Spread Spectrum
	IEEE 802.11g/n/ac	Orthogonal Frequency Division Multiplexing
Data Speed	IEEE 802.11b	1, 2, 5.5, 11Mbps
	IEEE 802.11g	6, 12, 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
	IEEE 802.11ac	Support a subset of the combination of GI, MCS 0~MCS 9 and bandwidth defined in 802.11ac

Antenna Information	
Antenna Type	PCB Dipole antenna
Effective Antenna Gain	0.458 dBi
Beamforming Gain	1.02 dBi

Accessories Information	
LAN Cable	Non-Shielded, 1.4m
Power Adapter	DELTA, ADP-45BW B I/P : 100-240V~1.2A 50-60Hz O/P : 19V $\overline{=}$ 2.37A Cable Out: Non-Shielded, 2.2m
Power Adapter	DELTA, ADP-45BW Y I/P : 100-240V~50-60Hz 1.2A O/P : 19V $\overline{=}$ 2.37A Cable Out: Non-Shielded, 2.2m
Power Adapter	PI, AD2066320 I/P : 100-240V~50/60Hz 1.0A O/P : 19V $\overline{=}$ 2.37A Cable Out: Non-Shielded, 2.2m
Power Adapter	PI, AD883J20 I/P : 100-240V 1.0A 50/60Hz O/P : 19V $\overline{=}$ 2.37A Cable Out: Non-Shielded, 2.2m

**IEEE 802.11n**

MCS Index	Modulation	R	N <sub>BPSCS</sub>	N <sub>CBPS</sub>		N <sub>DBPS</sub>		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 <sub>BPSCS</sub>	N <sub>CBPS</sub>		N <sub>DBPS</sub>		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 <sub>BPSCS</sub>	Number of coded bits per single carrier
N <sub>CBPS</sub>	Number of coded bits per symbol
N <sub>DBPS</sub>	Number of data bits per symbol
GI	guard interval

**IEEE 802.11ac Data Rate**

Spatial Streams (Note1)	MCS Index	Modulation type	Coding rate	Data Rate(Mb/s)					
				20 MHz		40 MHz		80 MHz	
				Guard Interval		Guard Interval		Guard Interval	
				800ns	400ns	800ns	400ns	800ns	400ns
1	0	BPSK	1/2	6.5	7.2	13.5	15	29.3	32.5
	1	QPSK	1/2	13	14.4	27	30	58.5	65
	2	QPSK	3/4	19.5	21.7	40.5	45	87.8	97.5
	3	16-QAM	1/2	26	28.9	54	60	117	130
	4	16-QAM	3/4	39	43.3	81	90	175.5	195
	5	64-QAM	2/3	52	57.8	108	120	234	260
	6	64-QAM	3/4	58.5	65	121.5	135	263.3	292.5
	7	64-QAM	5/6	65	72.2	135	150	292.5	325
	8	256-QAM	3/4	78	86.7	162	180	351	390
	9	256-QAM	5/6	N/A	N/A	180	200	390	433.3
2	0	BPSK	1/2	13	14.4	27	30	58.6	65
	1	QPSK	1/2	26	28.8	54	60	117	130
	2	QPSK	3/4	39	43.4	81	90	175.6	195
	3	16-QAM	1/2	52	57.8	108	120	234	260
	4	16-QAM	3/4	78	86.6	162	180	351	390
	5	64-QAM	2/3	104	115.6	216	240	468	520
	6	64-QAM	3/4	117	130	243	270	526.6	585
	7	64-QAM	5/6	130	144.4	270	300	585	650
	8	256-QAM	3/4	156	173.4	324	360	702	780
	9	256-QAM	5/6	N/A	N/A	360	400	780	866.6

## IEEE 802.11b/g, IEEE 802.11n (20MHz) &amp; IEEE 802.11ac (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) &amp; IEEE 802.11ac (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 Wireless-AC2200 Tri Band Gigabit Router including 2.4GHz b/g/n/ac and 5GHz a/n/ac and BT2.0 / BT 4.0 transmitting and receiving functions.
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.

Test Mode	Mode 1: Transmit_CDD_ADP-45BW B Mode 2: Transmit_CDD_ADP-45BW Y Mode 3: Transmit_CDD_AD2066320 Mode 4: Transmit_CDD_AD883J20 Mode 5: Transmit_BF_ADP-45BW B
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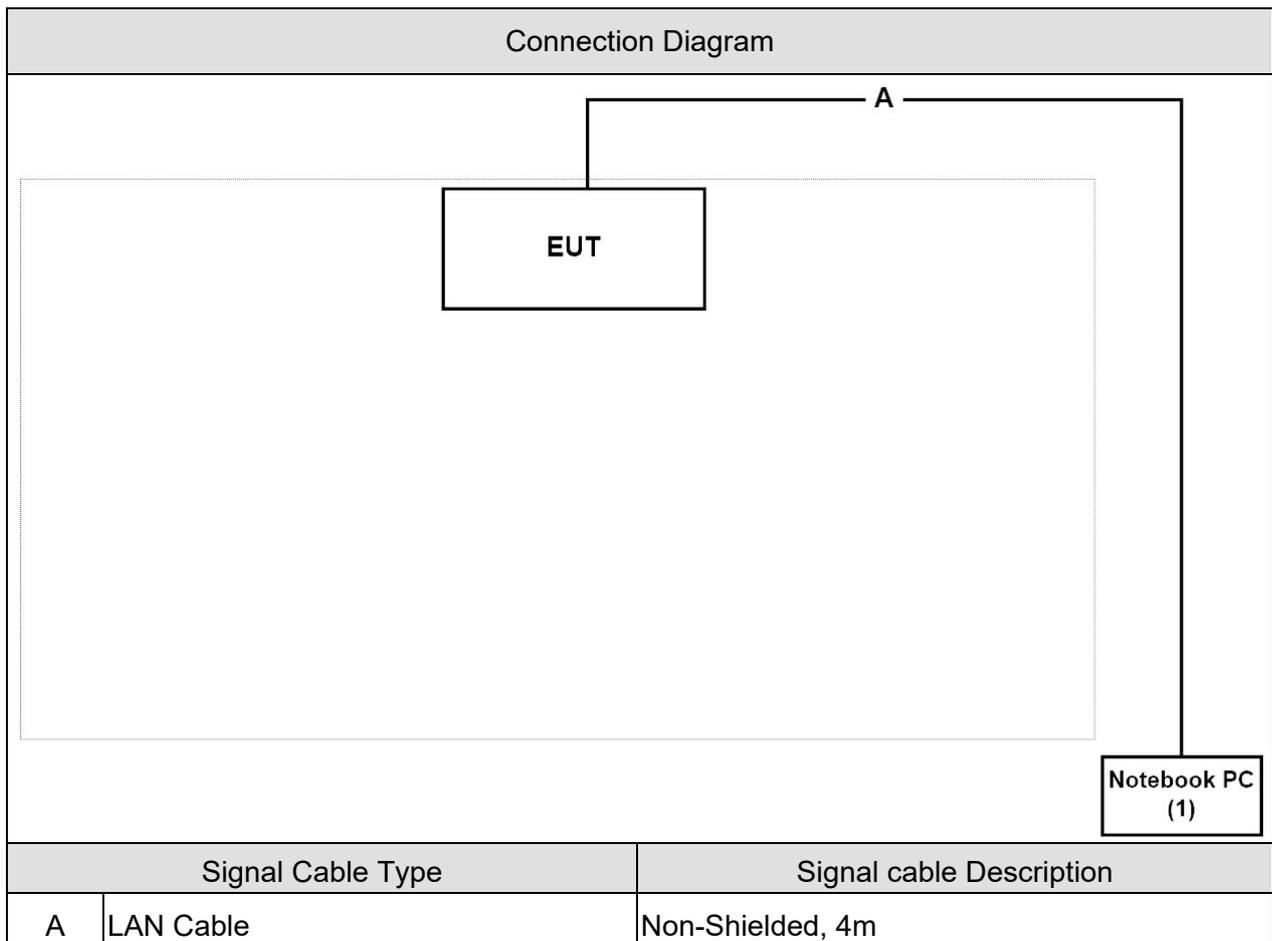
Test Items	Modulation	Channel	Antenna	Result
Conducted Emission	11ac(40MHz)	6	0+1	Complies
Maximum peak conducted output power	11b/g	1/6/11	0+1	Complies
	11ac(20MHz)	1/6/11	0+1	Complies
	11ac(40MHz)	3/6/9	0+1	Complies
Radiated Emission	11b/g	1/6/11	0+1	Complies
	11ac(20MHz)	1/6/11	0+1	Complies
	11ac(40MHz)	3/6/9	0+1	Complies
RF antenna conducted test	11b/g	1/6/11	0/1	Complies
	11ac(20MHz)	1/6/11	0/1	Complies
	11ac(40MHz)	3/6/9	0/1	Complies
Radiated Emission Band Edge	11b/g	1/6/11	0+1	Complies
	11ac(20MHz)	1/6/11	0+1	Complies
	11ac(40MHz)	3/6/9	0+1	Complies
DTS Bandwidth	11b/g	1/6/11	0/1	Complies
	11ac(20MHz)	1/6/11	0/1	Complies
	11ac(40MHz)	3/6/9	0/1	Complies
Occupied Bandwidth	11b/g	1/6/11	0/1	Complies
	11ac(20MHz)	1/6/11	0/1	Complies
	11ac(40MHz)	3/6/9	0/1	Complies
Power Density	11b/g	1/6/11	0+1	Complies
	11ac(20MHz)	1/6/11	0+1	Complies
	11ac(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	Lenovo	B590	WB1529782	DoC	Non-Shielded, 1.8m, 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 Control program “QCA Radio Control Toolkit” on the laptop.
3	Configure the test mode, the test channel, and the data rate.
4	Make the EUT 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 Maximum peak conducted output power	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 Radiated Emission 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.

## Laboratory Information

**USA** : **FCC Registration Number: TW3024**

**Canada** **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](http://www.dekra.com.tw/index_en.aspx)

If you have any comments, Please don't hesitate to contact us. Our test sites as below:

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## 1.7. List of Test Equipment

### Conducted Emission / SR2-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Artificial Mains Network	R&S	ENV4200	848411/010	2018/01/22	2019/01/21
Test Receiver	R&S	ESCS 30	836858/022	2018/03/30	2019/03/29
LISN	R&S	ENV216	100092	2018/07/23	2019/07/22

### Maximum peak conducted output power / SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Keysight	N9030B	MY57140404	2018/06/26	2019/06/25
Spectrum Analyzer	Keysight	N9010B	MY57110159	2018/05/25	2019/05/24
Spectrum Analyzer	Agilent	N9010A	US47140172	2018/07/18	2019/07/17
Signal & Spectrum Analyzer	R&S	FSV40	101049	2018/01/10	2019/01/09

### Radiated Emission / CB2-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal Analyzer	R&S	FSVA40	101455	2017/11/21	2018/11/20
Signal & Spectrum Analyzer	R&S	FSV40	101049	2018/01/10	2019/01/09
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2018/03/05	2019/03/04
Bilog Antenna	Teseq	CBL6112D	23191	2018/06/26	2019/06/25
Horn Antenna	Schwarzbeck	BBHA 9120D	639	2018/06/01	2019/05/31
Horn Antenna	Schwarzbeck	BBHA 9170	202	2018/01/31	2019/01/30
Pre-Amplifier	Dekra	AP-025C	201801236	2018/02/26	2019/02/25
Pre-Amplifier	EMCI	EMC11830I	980366	2018/01/08	2019/01/07
Pre-Amplifier	Dekra	AP-400C	201801231	2017/12/13	2018/12/12
Band Reject Filter	Micro-Tronics	BRM50702	G192	2018/04/11	2019/04/10
Band Reject Filter	Micro-Tronics	BRM50716	G089	2018/04/11	2019/04/10
Cable	Suhner	SF104_SF104_	A211	2017/08/29	2018/08/28
		SF104_SF104		2018/08/28	2019/08/27
Cable	Suhner	SF104_SF104_	A219	2017/08/16	2018/08/15
		SF104_SF102		2018/08/15	2019/08/14
Magnetic Loop Antenna	Teseq	HLA6121	44287	2017/10/13	2018/10/12
				2018/09/28	2019/09/27

## RF antenna conducted test / SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Keysight	N9030B	MY57140404	2018/06/26	2019/06/25
Spectrum Analyzer	Keysight	N9010B	MY57110159	2018/05/25	2019/05/24
Spectrum Analyzer	Agilent	N9010A	US47140172	2018/07/18	2019/07/17
Signal & Spectrum Analyzer	R&S	FSV40	101049	2018/01/10	2019/01/09

## Radiated Emission Band Edge / CB2-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal Analyzer	R&S	FSVA40	101455	2017/11/21	2018/11/20
Signal & Spectrum Analyzer	R&S	FSV40	101049	2018/01/10	2019/01/09
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2018/03/05	2019/03/04
Bilog Antenna	Teseq	CBL6112D	23191	2018/06/26	2019/06/25
Horn Antenna	Schwarzbeck	BBHA 9120D	639	2018/06/01	2019/05/31
Horn Antenna	Schwarzbeck	BBHA 9170	202	2018/01/31	2019/01/30
Pre-Amplifier	Dekra	AP-025C	201801236	2018/02/26	2019/02/25
Pre-Amplifier	EMCI	EMC11830I	980366	2018/01/08	2019/01/07
Pre-Amplifier	Dekra	AP-400C	201801231	2017/12/13	2018/12/12
Cable	Suhner	SF104_SF104_ SF104_SF104	A211	2017/08/29	2018/08/28
Cable	Suhner	SF104_SF104_ SF104_SF102	A219	2017/08/16	2018/08/15

## Occupied Bandwidth / SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Keysight	N9030B	MY57140404	2018/06/26	2019/06/25
Spectrum Analyzer	Keysight	N9010B	MY57110159	2018/05/25	2019/05/24
Spectrum Analyzer	Agilent	N9010A	US47140172	2018/07/18	2019/07/17
Signal & Spectrum Analyzer	R&S	FSV40	101049	2018/01/10	2019/01/09

## DTS Bandwidth / SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Keysight	N9030B	MY57140404	2018/06/26	2019/06/25
Spectrum Analyzer	Keysight	N9010B	MY57110159	2018/05/25	2019/05/24
Spectrum Analyzer	Agilent	N9010A	US47140172	2018/07/18	2019/07/17
Signal & Spectrum Analyzer	R&S	FSV40	101049	2018/01/10	2019/01/09

## Power Density / SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Keysight	N9030B	MY57140404	2018/06/26	2019/06/25
Spectrum Analyzer	Keysight	N9010B	MY57110159	2018/05/25	2019/05/24
Spectrum Analyzer	Agilent	N9010A	US47140172	2018/07/18	2019/07/17
Signal & Spectrum Analyzer	R&S	FSV40	101049	2018/01/10	2019/01/09

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

## 1.8. Duty Cycle

Mode 1: Transmit\_CDD\_ADP-45BW B

2.4GHz non-BF mode					
Mode	On Time (ms)	On+Off Time (ms)	Duty Cycle (%)	Duty Factor(dB) linear voltage	1/T Minimum VBW (kHz)
b	12.430	12.510	99.36%	0.055724	0.01
g	2.064	2.143	96.31%	0.326250	0.48
VHT20	5.002	5.083	98.41%	0.139528	0.01
VHT40	2.428	2.511	96.69%	0.291961	0.41

Note:

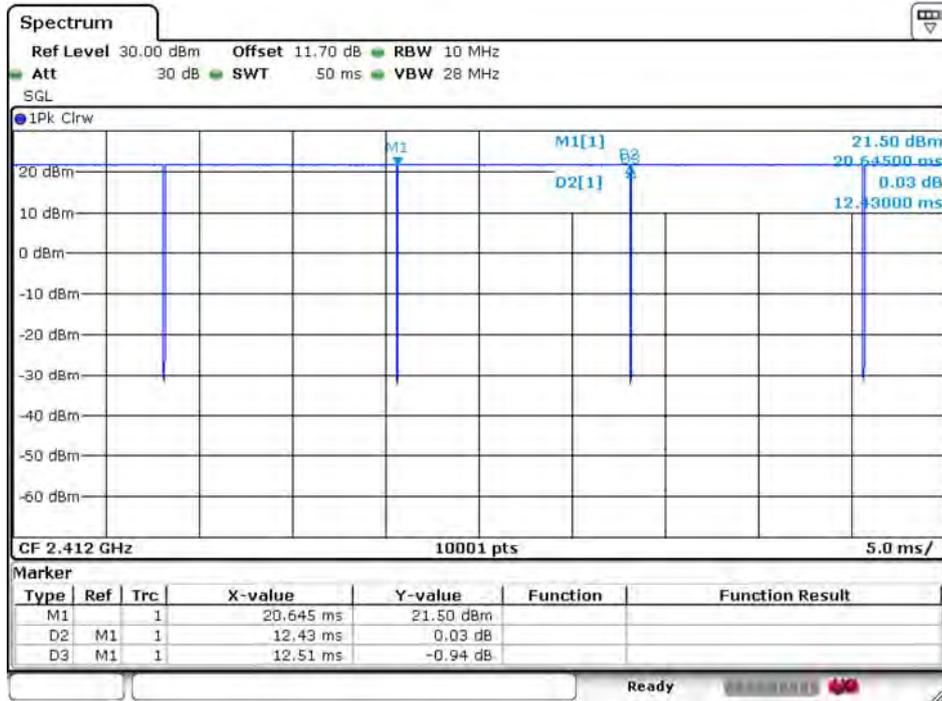
Offset =  $20 \log(1/\text{duty cycle})$

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.

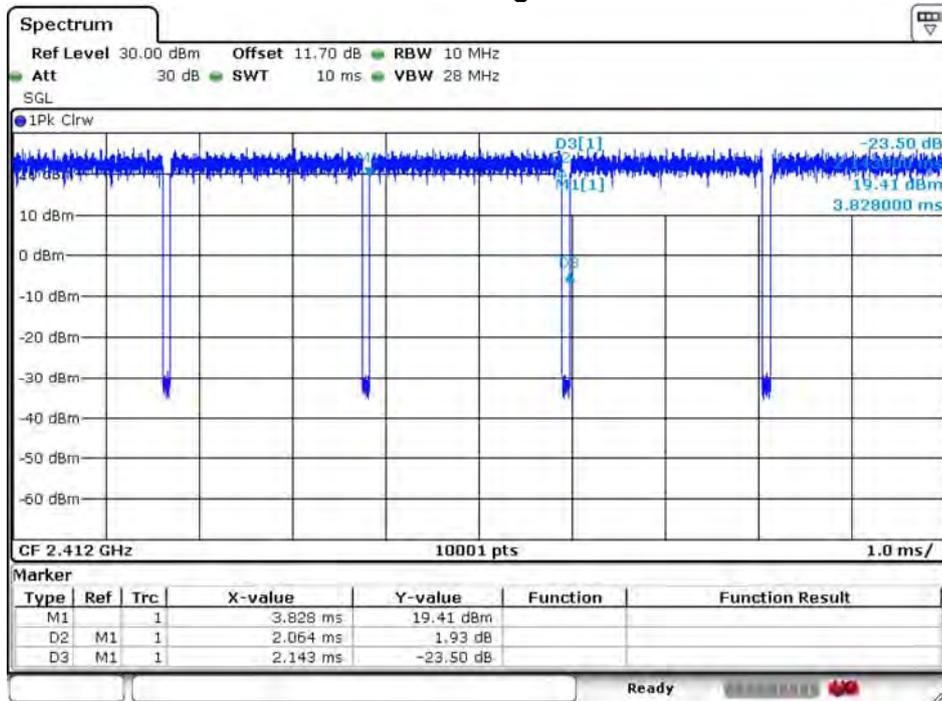
If linear voltage averaging mode was used in step (iv) above, the correction factor is  $20 \log(1/x)$ , where x is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB must be added to the measured emission levels.

### 802.11b



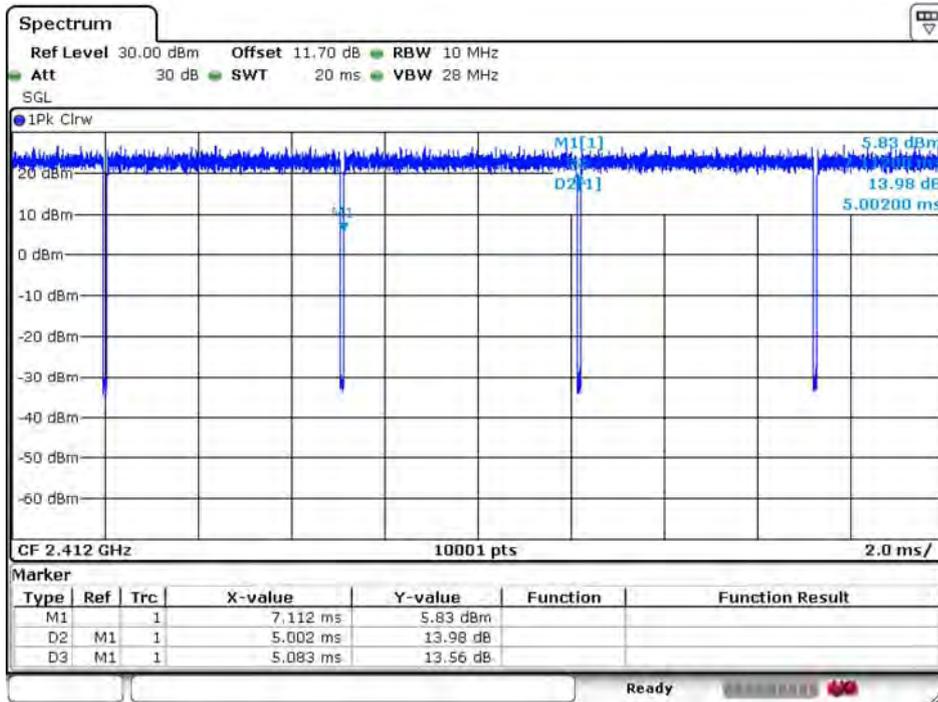
Date: 4.JUL.2018 09:42:06

### 802.11g



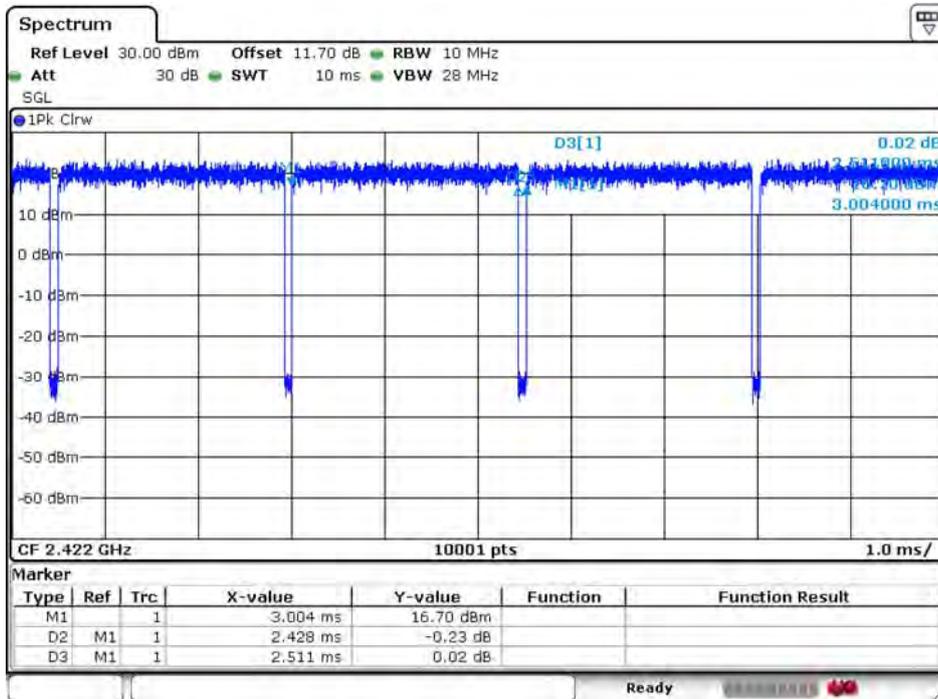
Date: 4.JUL.2018 09:44:06

### 802.11ac (20M)



Date: 4. JUL.2018 09:44:58

### 802.11ac (40M)



Date: 4. JUL.2018 09:46:31

## Mode 5: Transmit \_BF\_ADP-45BW B

2.4GHz BF mode					
Mode	On Time (ms)	On+Off Time (ms)	Duty Cycle (%)	Duty Factor(dB) linear voltage	1/T Minimum VBW (kHz)
VHT20	1.367	1.702	80.31%	1.904851	0.73
VHT40	1.692	1.857	91.11%	0.808459	0.59

## Note:

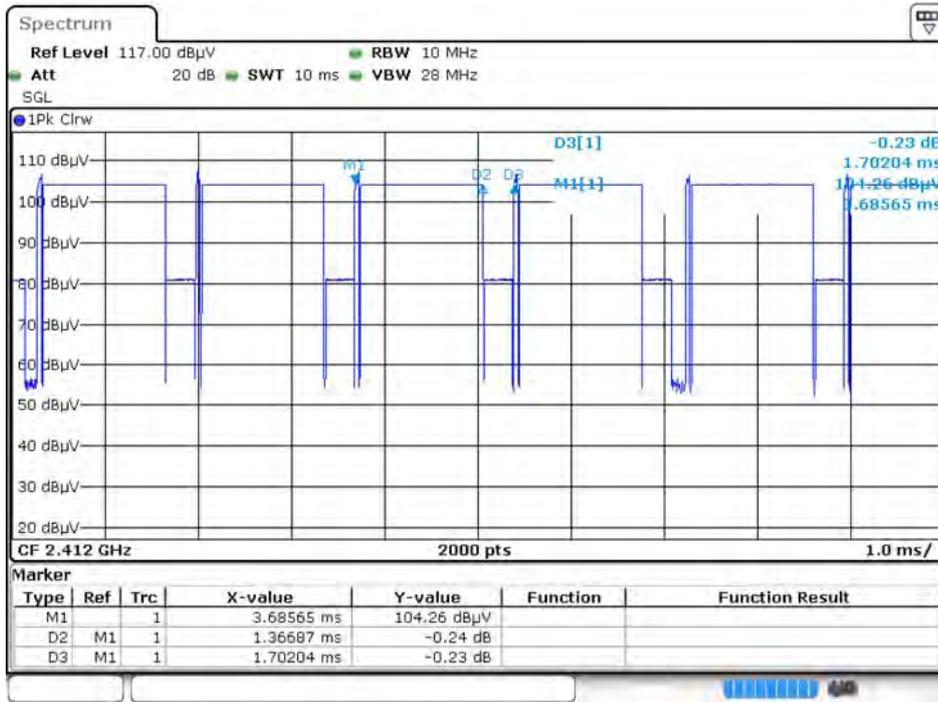
Offset =  $20 \log(1/\text{duty cycle})$

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.

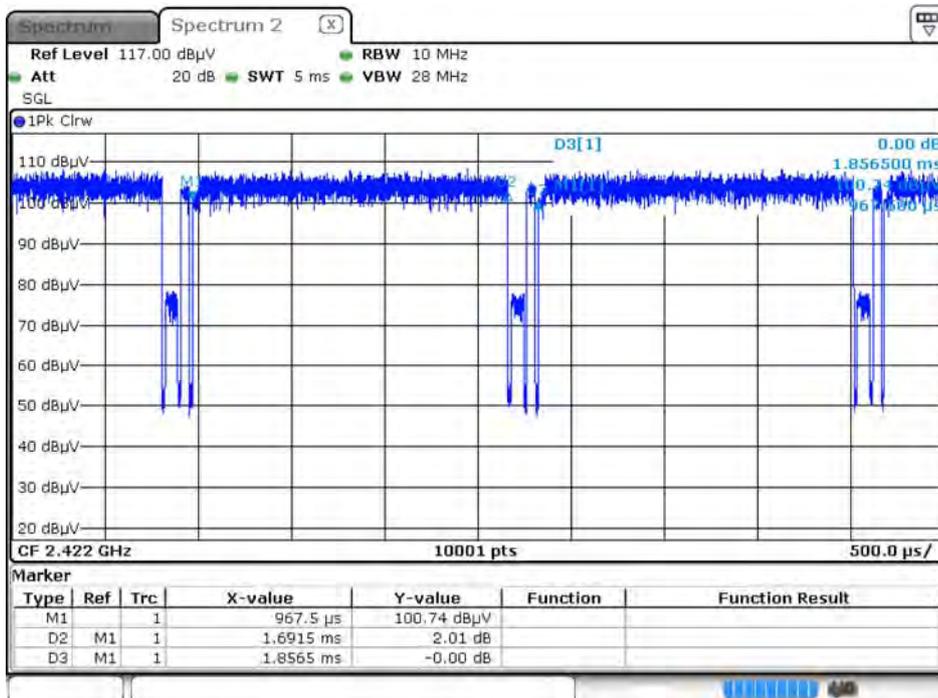
If linear voltage averaging mode was used in step (iv) above, the correction factor is  $20 \log(1/x)$ , where x is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB must be added to the measured emission levels.

### 802.11ac (20M)



Date: 15 JUL 2018 12:00:40

### 802.11ac (40M)



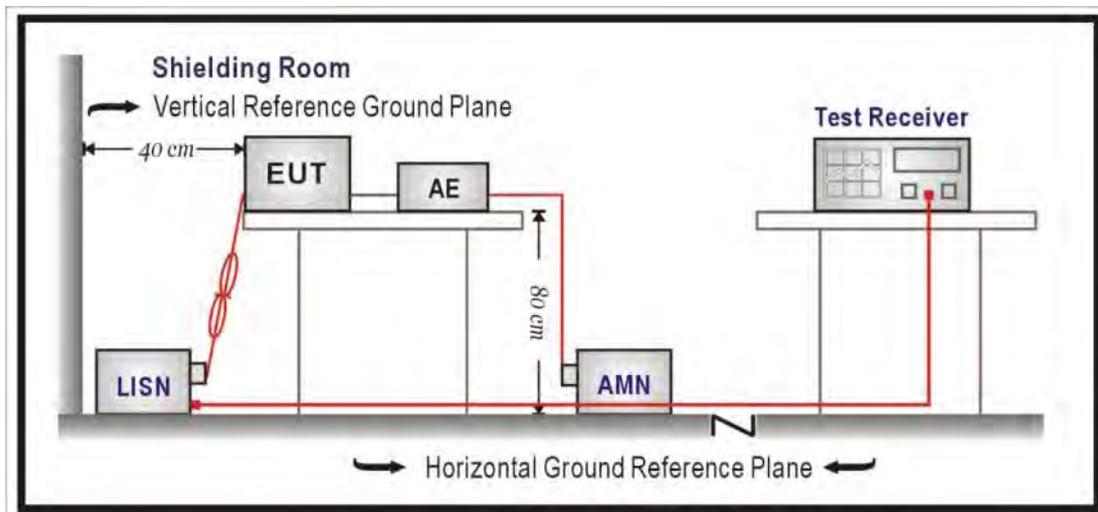
Date: 16 JUL 2018 13:36:09

## 1.9. Uncertainty

Test item	Uncertainty
Conducted Emission	$\pm 2.26$ dB.
Maximum peak conducted output power	$\pm 1.27$ dB.
Radiated Emission	30MHz~1GHz as $\pm 3.43$ dB 1GHz~26.5Ghz as $\pm 3.65$ dB
RF antenna conducted test	$\pm 1.27$ dB
Radiated Emission Band Edge	$\pm 3.9$ dB
DTS Bandwidth	$\pm 50$ Hz
Occupied Bandwidth	$\pm 50$ Hz
Power Density	$\pm 1.27$ dB

## 2. Conducted Emission

### 2.1. Test Setup



### 2.2. 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.

### **2.3. 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.

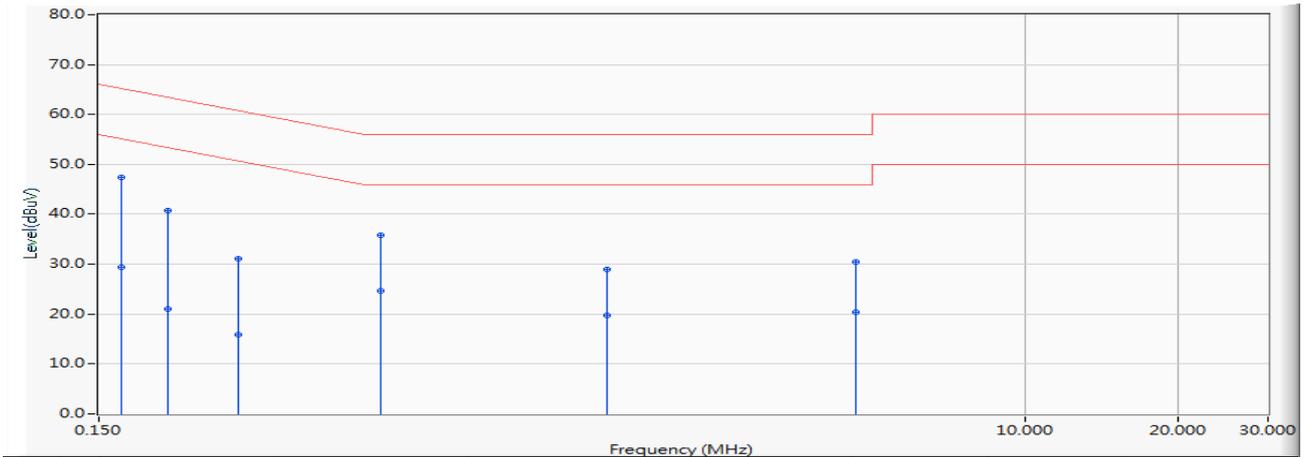
Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

### **2.4. Test Specification**

According to FCC Part 15 Subpart C Paragraph 15.207: 2017

## 2.5. Test Result

Site : SR2-H	Time : 2018/08/09
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2-H-B127_LISN(16A)-8 - Line1	Power : AC 120V/60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_ADP-45BW B 802.11ac(40M)_2437MHz

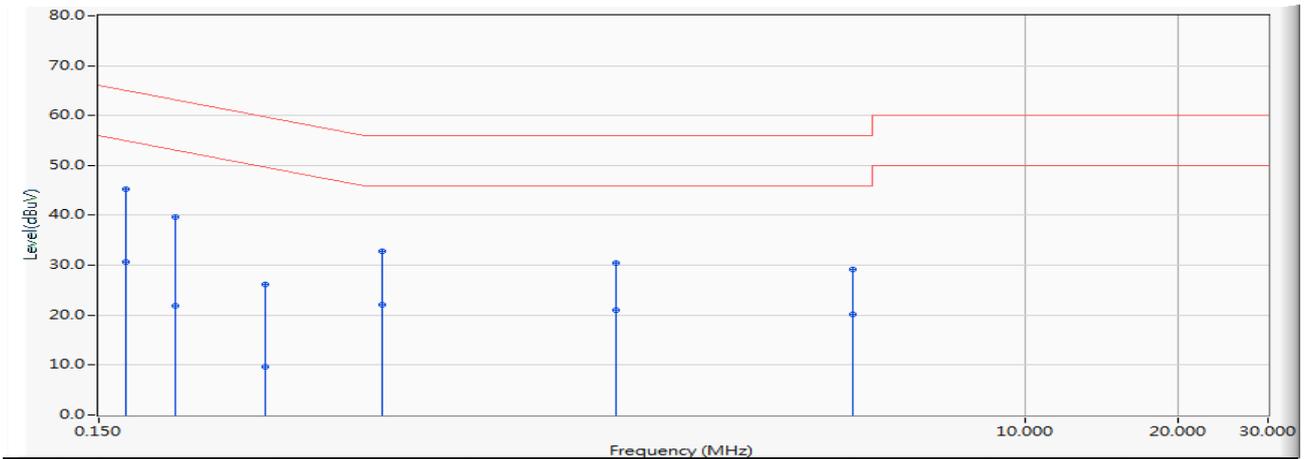


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.166	9.680	37.620	47.300	-17.877	65.177	QUASIPeAK
2		0.166	9.680	19.770	29.450	-25.727	55.177	AVERAGE
3		0.205	9.680	31.120	40.800	-22.618	63.418	QUASIPeAK
4		0.205	9.680	11.420	21.100	-32.318	53.418	AVERAGE
5		0.283	9.680	21.320	31.000	-29.733	60.733	QUASIPeAK
6		0.283	9.680	6.090	15.770	-34.963	50.733	AVERAGE
7		0.537	9.689	26.140	35.829	-20.171	56.000	QUASIPeAK
8		0.537	9.689	15.040	24.729	-21.271	46.000	AVERAGE
9		1.498	9.795	19.140	28.935	-27.065	56.000	QUASIPeAK
10		1.498	9.795	9.910	19.705	-26.295	46.000	AVERAGE
11		4.642	9.819	20.700	30.519	-25.481	56.000	QUASIPeAK
12		4.642	9.819	10.460	20.279	-25.721	46.000	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 : 2018/08/09
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2-H-B127_LISN(16A)-8 - Line2	Power : AC 120V/60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_ADP-45BW B 802.11ac(40M)_2437MHz

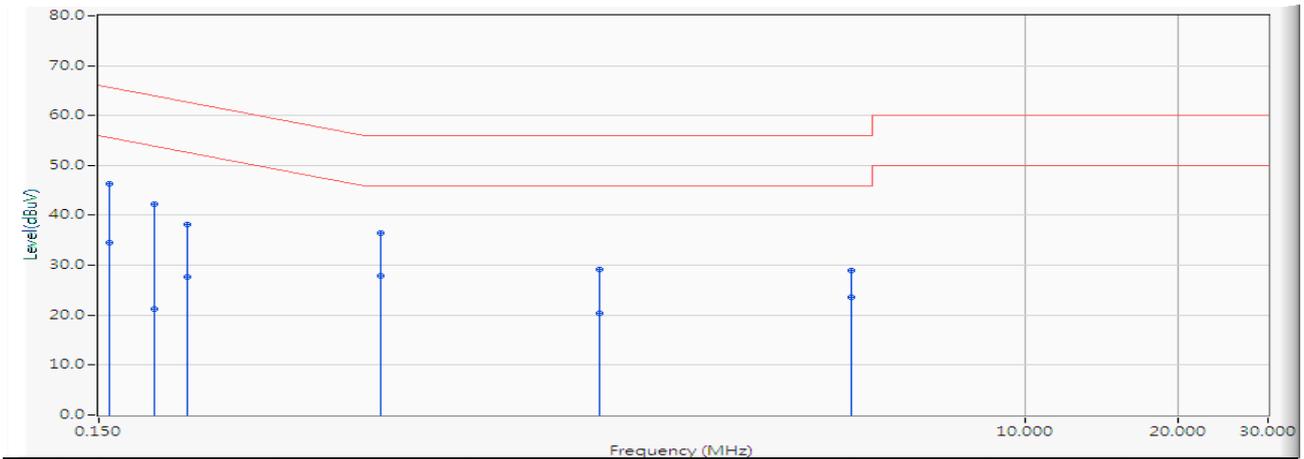


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.170	35.680	45.360	-19.623	64.983	QUASIPeAK
2		0.170	20.990	30.670	-24.313	54.983	AVERAGE
3		0.212	30.040	39.720	-23.387	63.107	QUASIPeAK
4		0.212	12.150	21.830	-31.277	53.107	AVERAGE
5		0.318	16.440	26.120	-33.640	59.760	QUASIPeAK
6		0.318	-0.020	9.660	-40.100	49.760	AVERAGE
7		0.541	23.040	32.730	-23.270	56.000	QUASIPeAK
8		0.541	12.480	22.170	-23.830	46.000	AVERAGE
9		1.560	20.760	30.556	-25.444	56.000	QUASIPeAK
10		1.560	11.180	20.976	-25.024	46.000	AVERAGE
11		4.584	19.240	29.066	-26.934	56.000	QUASIPeAK
12		4.584	10.300	20.126	-25.874	46.000	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 : 2018/08/10
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2-H-B127_LISN(16A)-8 - Line1	Power : AC 120V/60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 2: Transmit_CDD_ADP-45BW Y 802.11ac(40M)_2437MHz

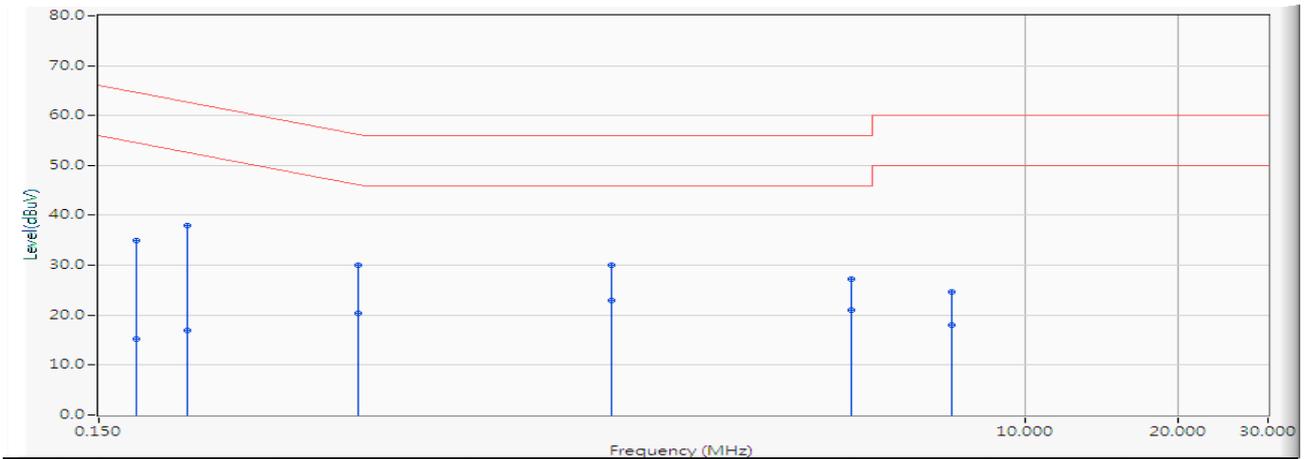


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.158	9.677	36.720	46.397	-19.181	65.578	QUASIPeAK
2	0.158	9.677	24.790	34.467	-21.111	55.578	AVERAGE
3	0.193	9.680	32.620	42.300	-21.608	63.908	QUASIPeAK
4	0.193	9.680	11.490	21.170	-32.738	53.908	AVERAGE
5	0.224	9.680	28.400	38.080	-24.581	62.661	QUASIPeAK
6	0.224	9.680	17.950	27.630	-25.031	52.661	AVERAGE
7	0.537	9.689	26.820	36.509	-19.491	56.000	QUASIPeAK
8	* 0.537	9.689	18.230	27.919	-18.081	46.000	AVERAGE
9	1.447	9.794	19.460	29.254	-26.746	56.000	QUASIPeAK
10	1.447	9.794	10.520	20.314	-25.686	46.000	AVERAGE
11	4.541	9.817	19.240	29.057	-26.943	56.000	QUASIPeAK
12	4.541	9.817	13.750	23.567	-22.433	46.000	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 : 2018/08/10
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2-H-B127_LISN(16A)-8 - Line2	Power : AC 120V/60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 2: Transmit_CDD_ADP-45BW Y 802.11 ac(40M) 2437MHz

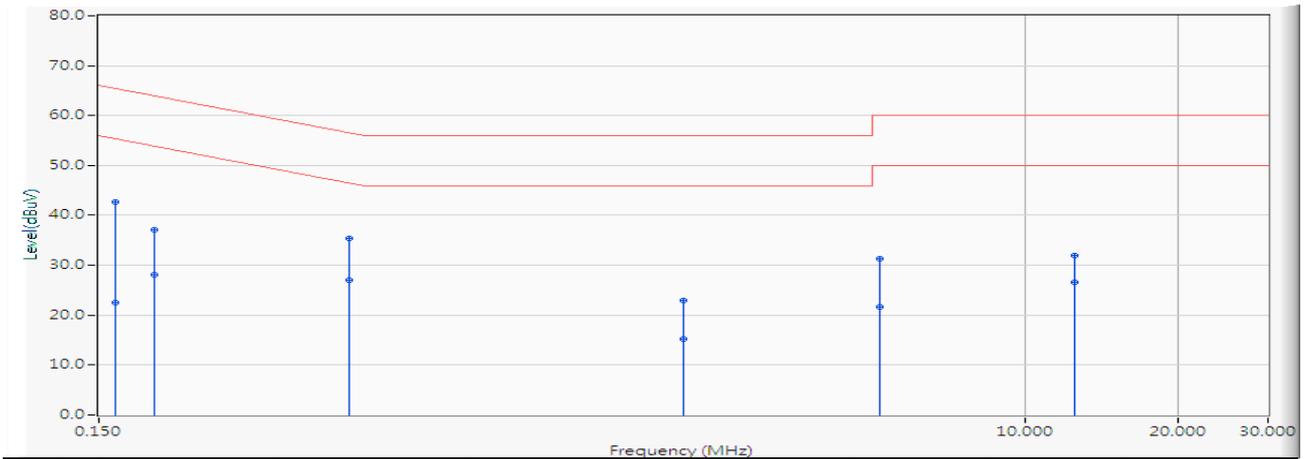


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.177	9.680	25.180	34.860	-29.749	64.609	QUASIPeAK
2	0.177	9.680	5.540	15.220	-39.389	54.609	AVERAGE
3	0.224	9.680	28.240	37.920	-24.741	62.661	QUASIPeAK
4	0.224	9.680	7.200	16.880	-35.781	52.661	AVERAGE
5	0.486	9.681	20.340	30.021	-26.216	56.237	QUASIPeAK
6	0.486	9.681	10.730	20.411	-25.826	46.237	AVERAGE
7	1.529	9.795	20.260	30.055	-25.945	56.000	QUASIPeAK
8	* 1.529	9.795	13.180	22.975	-23.025	46.000	AVERAGE
9	4.533	9.825	17.420	27.245	-28.755	56.000	QUASIPeAK
10	4.533	9.825	11.260	21.085	-24.915	46.000	AVERAGE
11	7.150	9.938	14.780	24.718	-35.282	60.000	QUASIPeAK
12	7.150	9.938	8.150	18.088	-31.912	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 : 2018/08/14
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2-H-B127_LISN(16A)-8 - Line1	Power : AC 120V/60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 3: Transmit_CDD_AD2066320 802.11ac(40M)_2437MHz

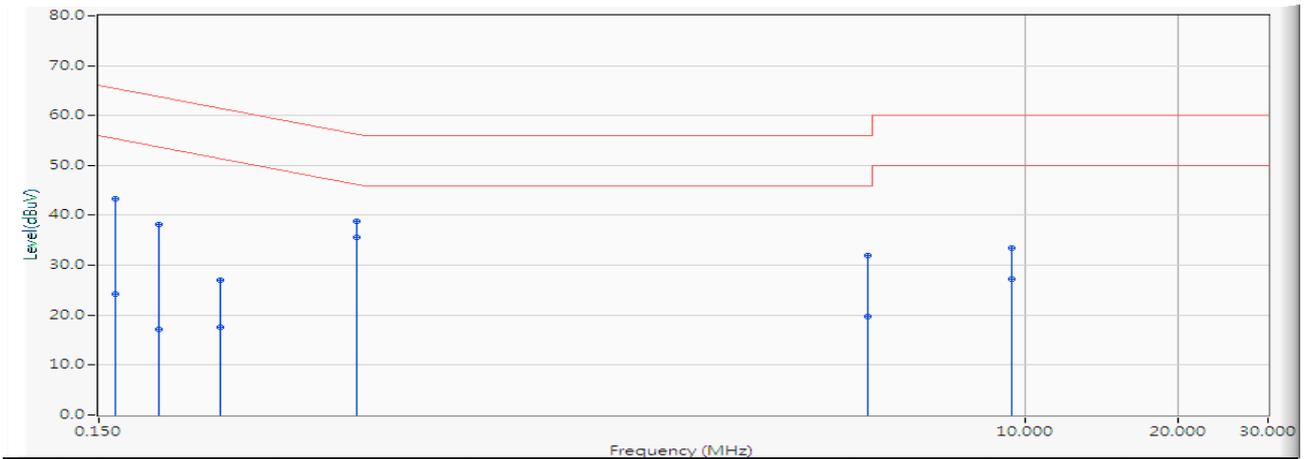


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.162	9.680	32.980	42.660	-22.715	65.375	QUASIPeAK
2	0.162	9.680	12.910	22.590	-32.785	55.375	AVERAGE
3	0.193	9.680	27.340	37.020	-26.888	63.908	QUASIPeAK
4	0.193	9.680	18.350	28.030	-25.878	53.908	AVERAGE
5	0.466	9.681	25.680	35.361	-21.217	56.578	QUASIPeAK
6	*	9.681	17.350	27.031	-19.547	46.578	AVERAGE
7	2.119	9.801	13.220	23.021	-32.979	56.000	QUASIPeAK
8	2.119	9.801	5.500	15.301	-30.699	46.000	AVERAGE
9	5.170	9.833	21.420	31.252	-28.748	60.000	QUASIPeAK
10	5.170	9.833	11.930	21.762	-28.238	50.000	AVERAGE
11	12.470	10.169	21.780	31.949	-28.051	60.000	QUASIPeAK
12	12.470	10.169	16.430	26.599	-23.401	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 : 2018/08/14
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2-H-B127_LISN(16A)-8 - Line2	Power : AC 120V/60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 3: Transmit_CDD_AD2066320 802.11ac(40M)_2437MHz

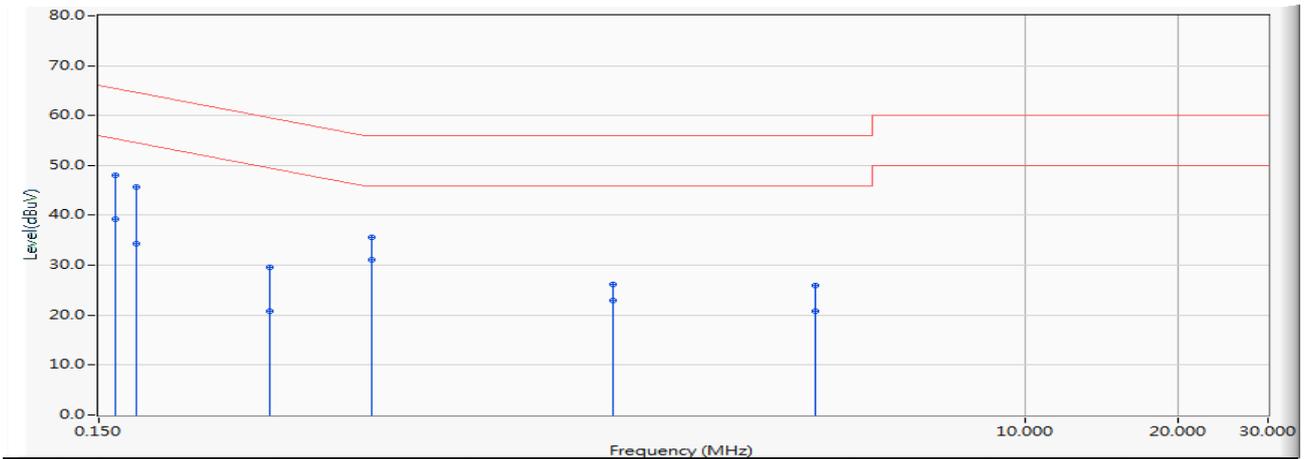


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.162	9.680	33.540	43.220	-22.155	65.375	QUASIPeAK
2	0.162	9.680	14.650	24.330	-31.045	55.375	AVERAGE
3	0.197	9.680	28.560	38.240	-25.501	63.741	QUASIPeAK
4	0.197	9.680	7.580	17.260	-36.481	53.741	AVERAGE
5	0.259	9.680	17.240	26.920	-34.531	61.451	QUASIPeAK
6	0.259	9.680	7.990	17.670	-33.781	51.451	AVERAGE
7	0.482	9.681	29.180	38.861	-17.443	56.304	QUASIPeAK
8	* 0.482	9.681	25.860	35.541	-10.763	46.304	AVERAGE
9	4.896	9.829	22.140	31.969	-24.031	56.000	QUASIPeAK
10	4.896	9.829	9.910	19.739	-26.261	46.000	AVERAGE
11	9.392	10.050	23.320	33.370	-26.630	60.000	QUASIPeAK
12	9.392	10.050	17.280	27.330	-22.670	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 : 2018/10/24
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2-H-B127_LISN(16A)-8 - Line1	Power : AC 120V/60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 4: Transmit_CDD_AD883J20 802.11n(40M)_2437MHz

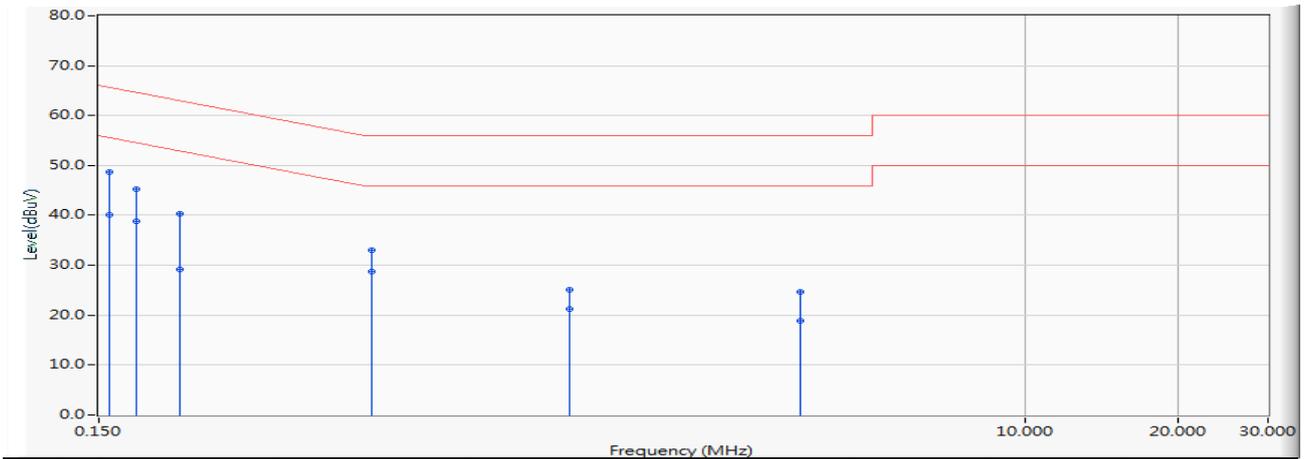


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.162	9.680	38.420	48.100	-17.275	65.375	QUASIPeAK
2	0.162	9.680	29.610	39.290	-16.085	55.375	AVERAGE
3	0.177	9.680	36.050	45.730	-18.879	64.609	QUASIPeAK
4	0.177	9.680	24.580	34.260	-20.349	54.609	AVERAGE
5	0.326	9.680	19.890	29.570	-29.988	59.558	QUASIPeAK
6	0.326	9.680	11.040	20.720	-28.838	49.558	AVERAGE
7	0.517	9.685	25.900	35.585	-20.415	56.000	QUASIPeAK
8	* 0.517	9.685	21.420	31.105	-14.895	46.000	AVERAGE
9	1.545	9.795	16.280	26.075	-29.925	56.000	QUASIPeAK
10	1.545	9.795	13.100	22.895	-23.105	46.000	AVERAGE
11	3.857	9.809	16.110	25.919	-30.081	56.000	QUASIPeAK
12	3.857	9.809	10.980	20.789	-25.211	46.000	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 : 2018/10/24 - 10:13
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2-H-B127_LISN(16A)-8 - Line2	Power : AC 120V/60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 4: Transmit_CDD_AD883J20 802.11n(40M)_2437MHz



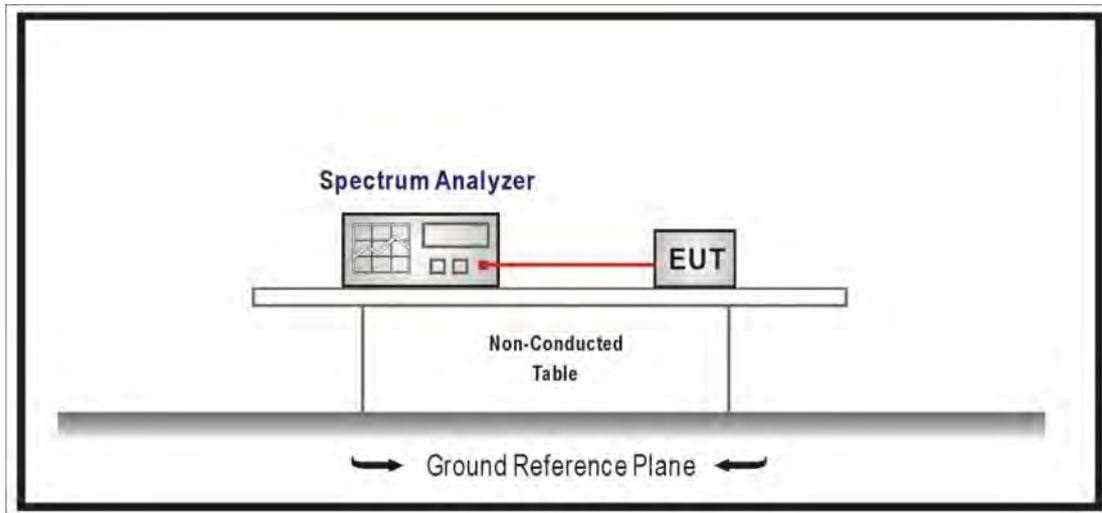
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.158	9.680	39.070	48.750	-16.828	65.578	QUASIPeAK
2	* 0.158	9.680	30.400	40.080	-15.498	55.578	AVERAGE
3	0.177	9.680	35.530	45.210	-19.399	64.609	QUASIPeAK
4	0.177	9.680	29.220	38.900	-15.709	54.609	AVERAGE
5	0.216	9.680	30.550	40.230	-22.726	62.956	QUASIPeAK
6	0.216	9.680	19.420	29.100	-23.856	52.956	AVERAGE
7	0.517	9.685	23.410	33.095	-22.905	56.000	QUASIPeAK
8	0.517	9.685	19.130	28.815	-17.185	46.000	AVERAGE
9	1.263	9.793	15.300	25.093	-30.907	56.000	QUASIPeAK
10	1.263	9.793	11.350	21.143	-24.857	46.000	AVERAGE
11	3.615	9.816	14.760	24.576	-31.424	56.000	QUASIPeAK
12	3.615	9.816	9.120	18.936	-27.064	46.000	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. Maximum peak conducted output power

#### 3.1. Test Setup



#### 3.2. Test procedures

The EUT was tested according to DTS test procedure section 9.1.2 of KDB 558074 D01 V05 Measurement to FCC 47CFR 15.247 requirements.

#### 3.3. Limits

The maximum peak power shall be less 1 Watt.

#### 3.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2017

### 3.5. Test Result

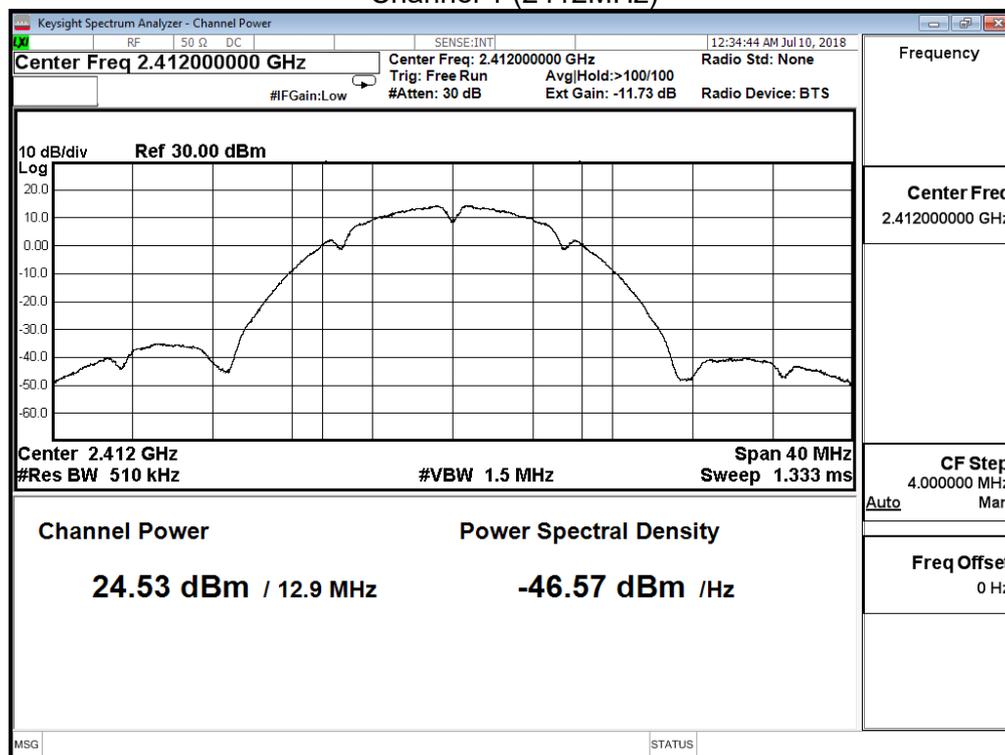
Product	Wireless-AC2200 Tri Band Gigabit Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: Transmit_CDD_ADP-45BW B		
Date of Test	2018/07/10	Test Site	SR10-H

IEEE 802.11b (ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	24.530	≤ 30
6	2437	26.080	≤ 30
11	2462	23.260	≤ 30

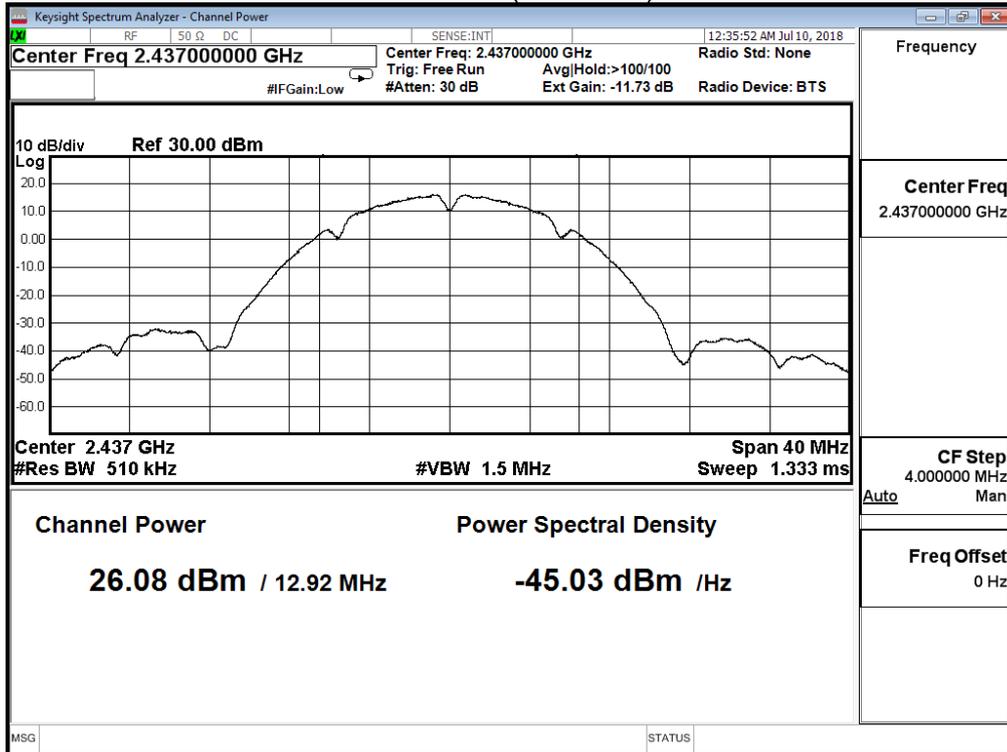
The worst emission of data rate is 1 Mbps

Maximum peak conducted output power (dBm)						
Channel No.	Frequency(MHz)	Data Rate (Mbps)				Required Limit (dBm)
		1	2	5.5	11	
1	2412	24.530	--	--	--	≤ 30
6	2437	26.080	26.040	26.010	25.960	≤ 30
11	2462	23.260	--	--	--	≤ 30

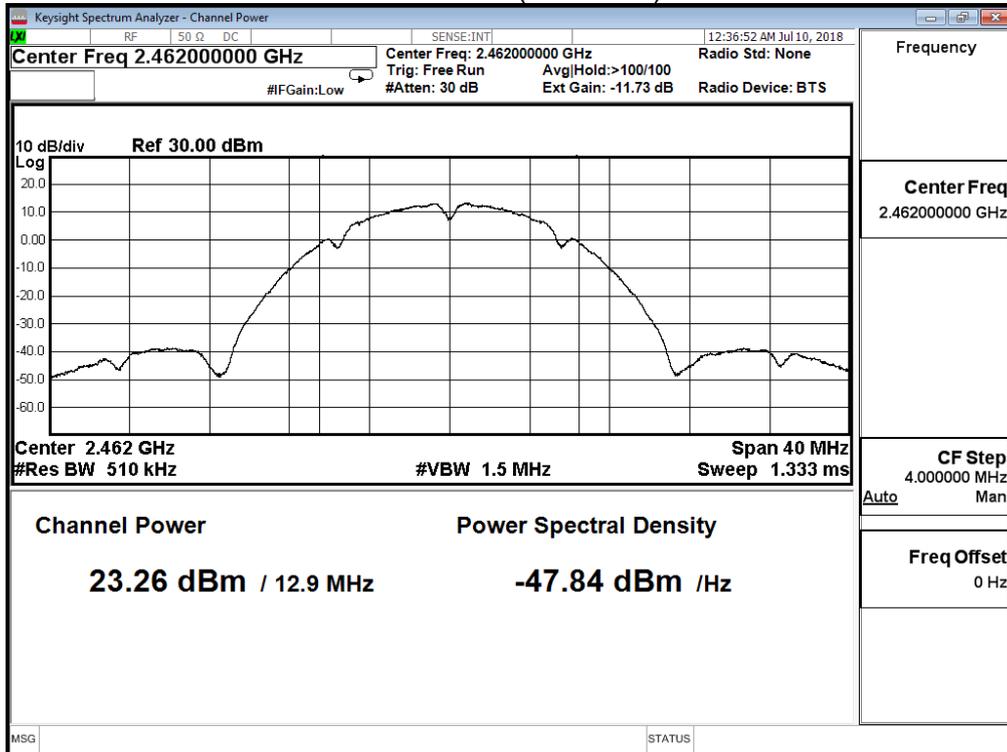
Channel 1 (2412MHz)



### Channel 6 (2437MHz)



### Channel 11 (2462MHz)



Product	Wireless-AC2200 Tri Band Gigabit Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: Transmit_CDD_ADP-45BW B		
Date of Test	2018/07/10	Test Site	SR10-H

IEEE 802.11b (ANT 1)

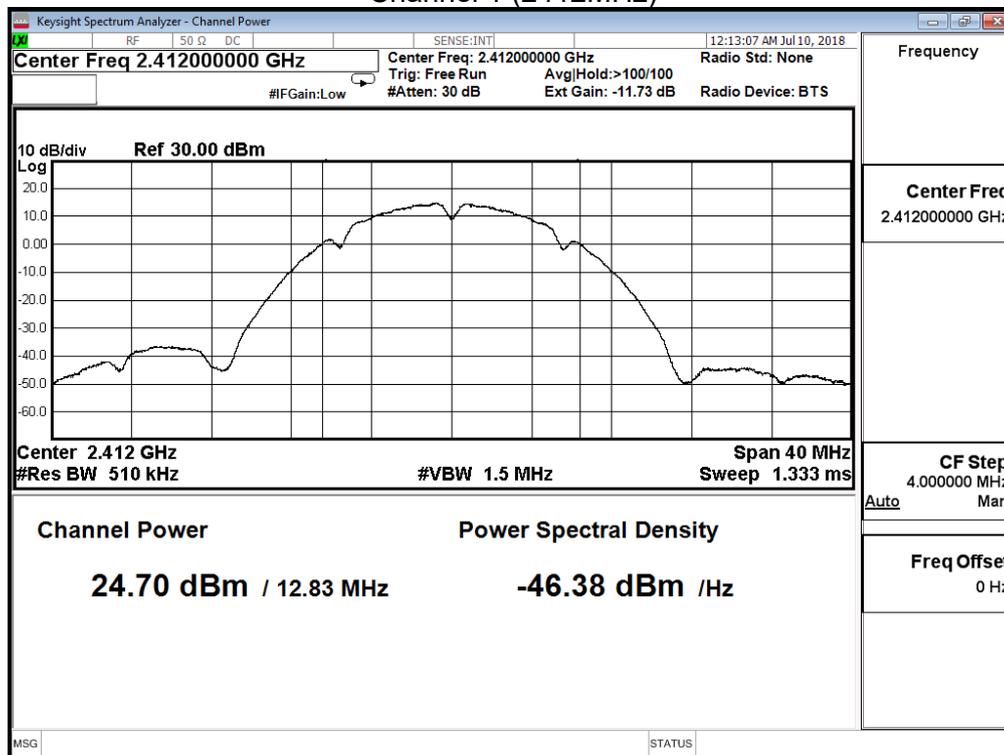
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	24.700	≤ 30
6	2437	26.250	≤ 30
11	2462	23.440	≤ 30

The worst emission of data rate is 1 Mbps

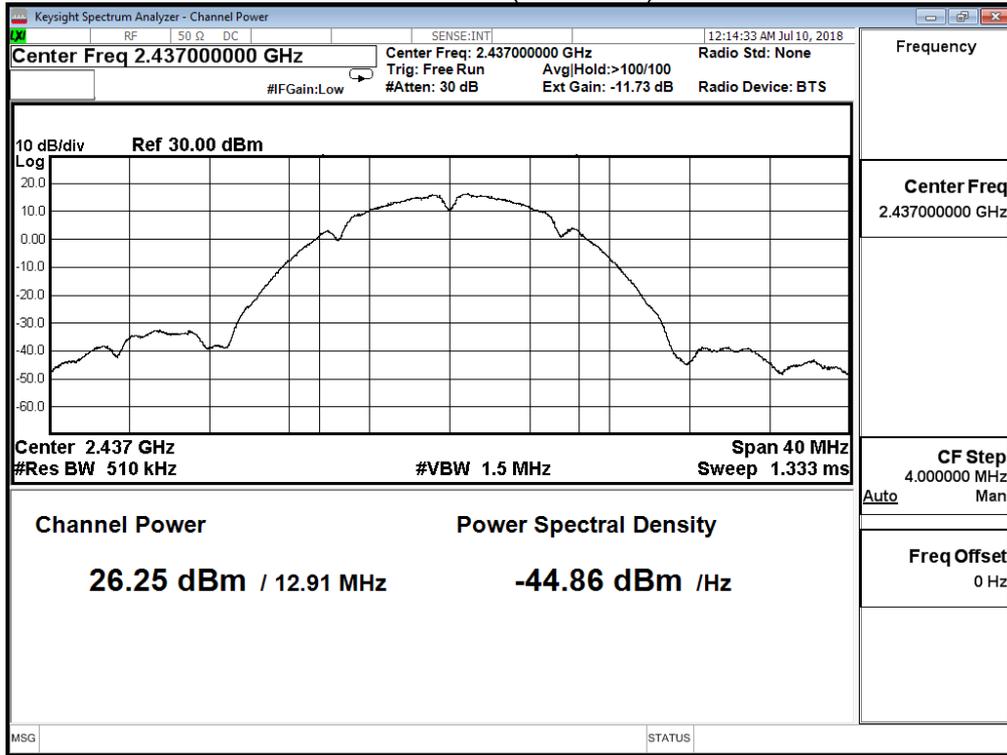
Maximum peak conducted output power (dBm)

Channel No.	Frequency (MHz)	Data Rate (Mbps)				Required Limit (dBm)
		1	2	5.5	11	
1	2412	24.700	--	--	--	≤ 30
6	2437	26.250	26.210	26.180	26.130	≤ 30
11	2462	23.440	--	--	--	≤ 30

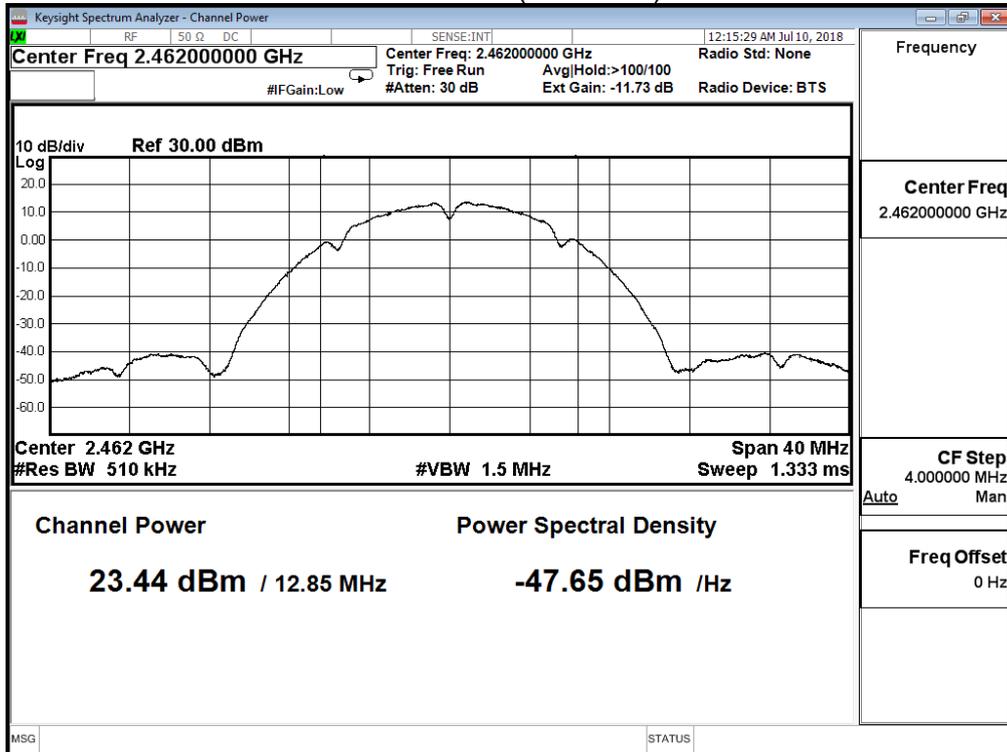
Channel 1 (2412MHz)



### Channel 6 (2437MHz)



### Channel 11 (2462MHz)



Product	Wireless-AC2200 Tri Band Gigabit Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: Transmit_CDD_AD P-45BW B		
Date of Test	2018/07/10	Test Site	SR10-H

IEEE 802.11b (ANT 0+1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	27.626	$\leq 30$
6	2437	29.176	$\leq 30$
11	2462	26.361	$\leq 30$

Product	Wireless-AC2200 Tri Band Gigabit Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: Transmit_CDD_ADP-45BW B		
Date of Test	2018/07/10	Test Site	SR10-H

IEEE 802.11g (ANT 0)

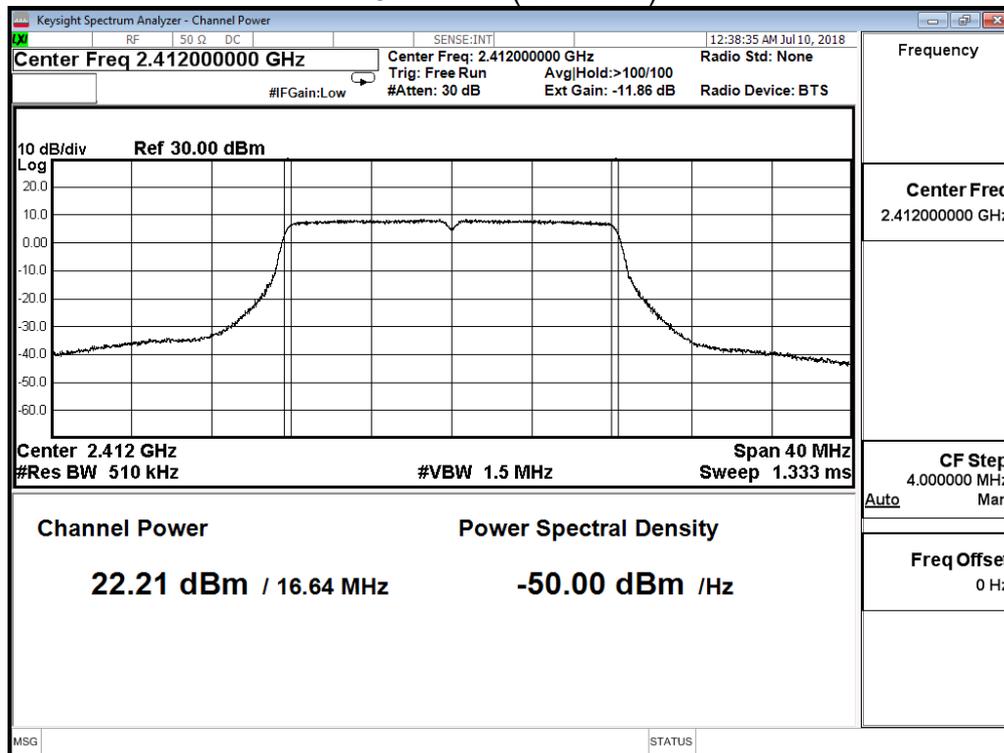
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	22.210	≤ 30
6	2437	26.140	≤ 30
11	2462	22.090	≤ 30

The worst emission of data rate is 6Mbps

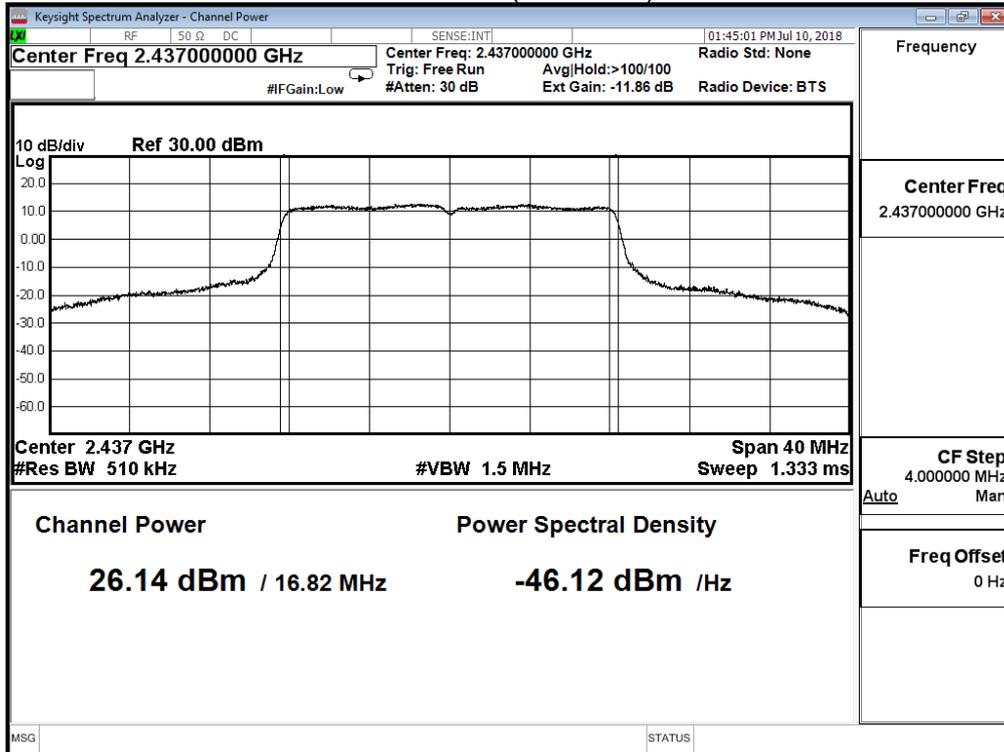
Maximum peak conducted output power (dBm)

Channel No	Frequency (MHz)	Data Rate (Mbps)							Required Limit (dBm)
		6	12	18	24	36	48	54	
1	2412	22.210	--	--	--	--	--	--	≤ 30
6	2437	26.140	26.100	26.070	26.020	25.980	25.930	25.880	≤ 30
11	2462	22.090	--	--	--	--	--	--	≤ 30

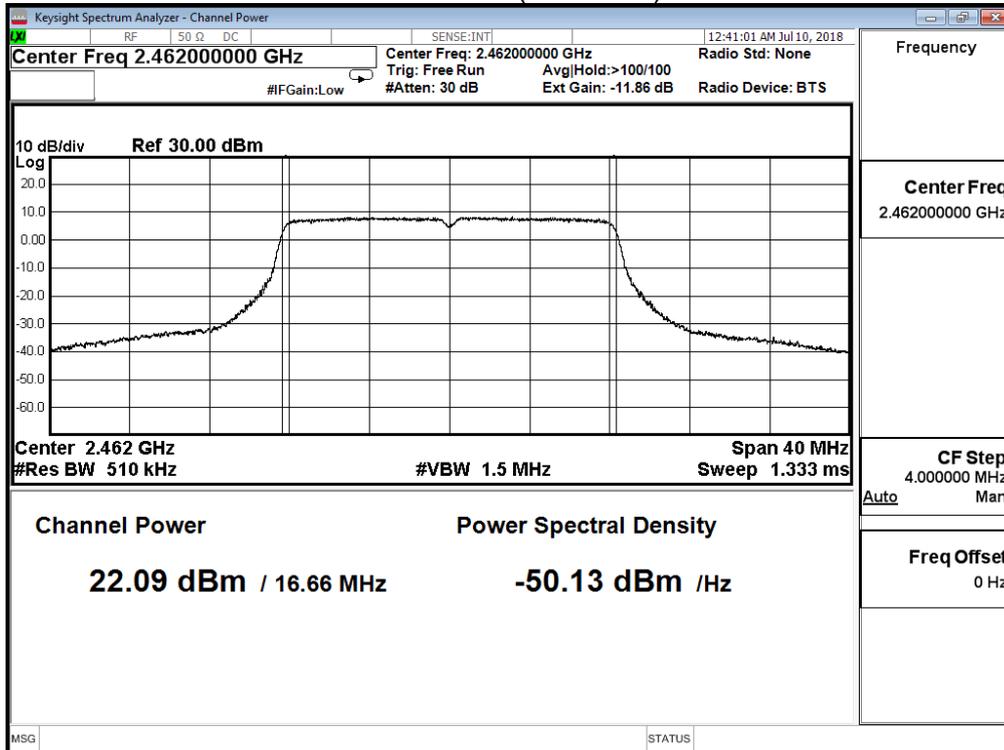
Channel 1 (2412MHz)



### Channel 6 (2437MHz)



### Channel 11 (2462MHz)



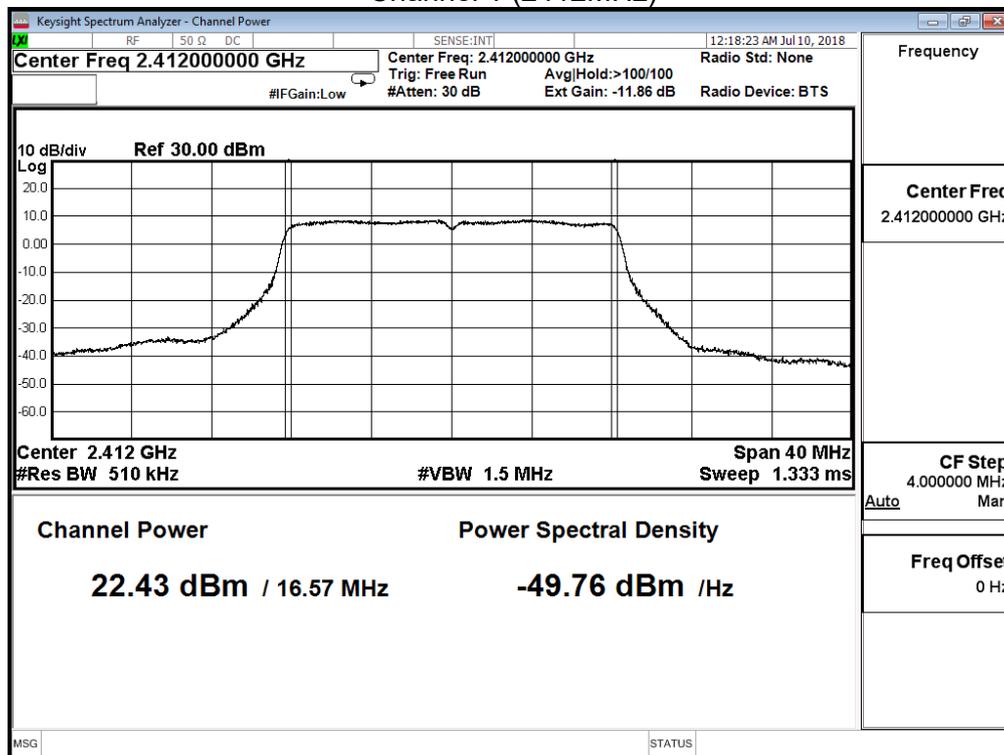
Product	Wireless-AC2200 Tri Band Gigabit Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: Transmit_CDD_ADP-45BW B		
Date of Test	2018/07/10	Test Site	SR10-H

IEEE 802.11g (ANT 1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	22.430	≤ 30
6	2437	26.250	≤ 30
11	2462	22.230	≤ 30

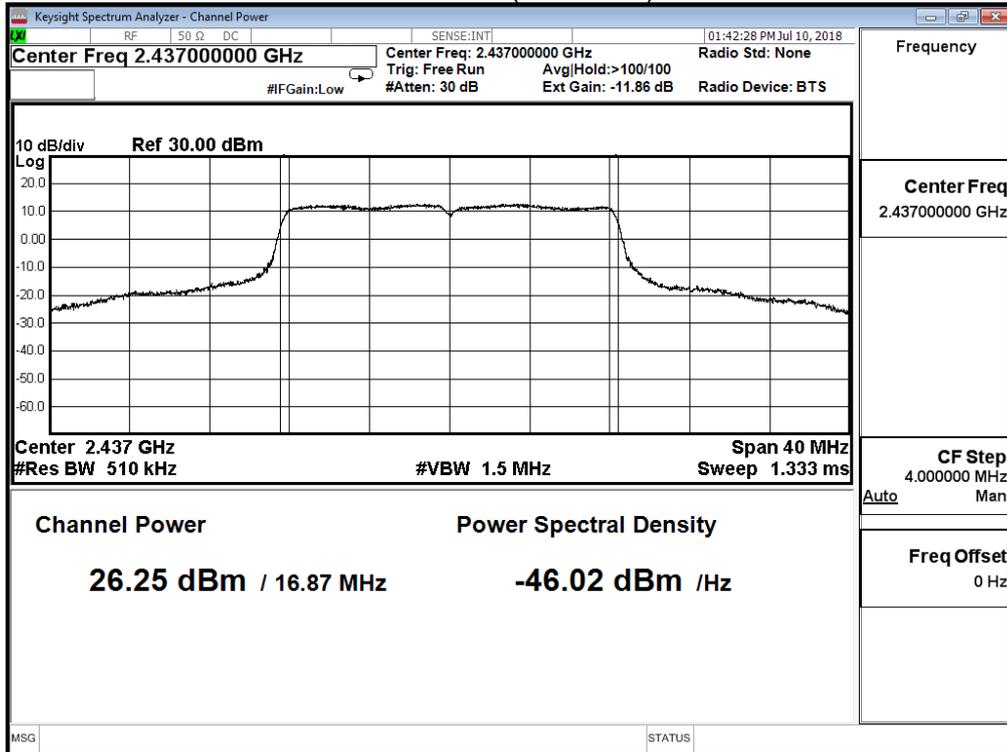
The worst emission of data rate is 6Mbps

Maximum peak conducted output power (dBm)									
Channel No	Frequency (MHz)	Data Rate (Mbps)							Required Limit (dBm)
		6	12	18	24	36	48	54	
1	2412	22.430	--	--	--	--	--	--	≤ 30
6	2437	26.250	26.210	26.180	26.130	26.090	26.040	25.990	≤ 30
11	2462	22.230	--	--	--	--	--	--	≤ 30

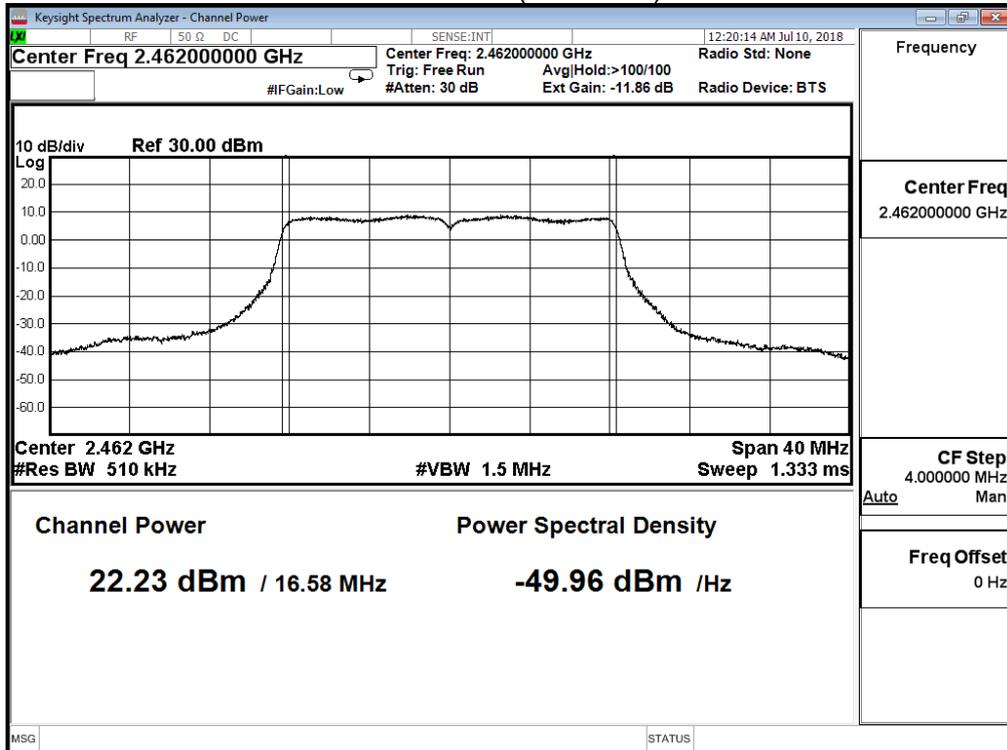
Channel 1 (2412MHz)



### Channel 6 (2437MHz)



### Channel 11 (2462MHz)



Product	Wireless-AC2200 Tri Band Gigabit Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: Transmit_CDD_AD P-45BW B		
Date of Test	2018/07/10	Test Site	SR10-H

IEEE 802.11g (ANT 0+1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	25.332	$\leq 30$
6	2437	29.206	$\leq 30$
11	2462	25.171	$\leq 30$

Product	Wireless-AC2200 Tri Band Gigabit Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: Transmit_CDD_ADP-45BW B		
Date of Test	2018/07/10	Test Site	SR10-H

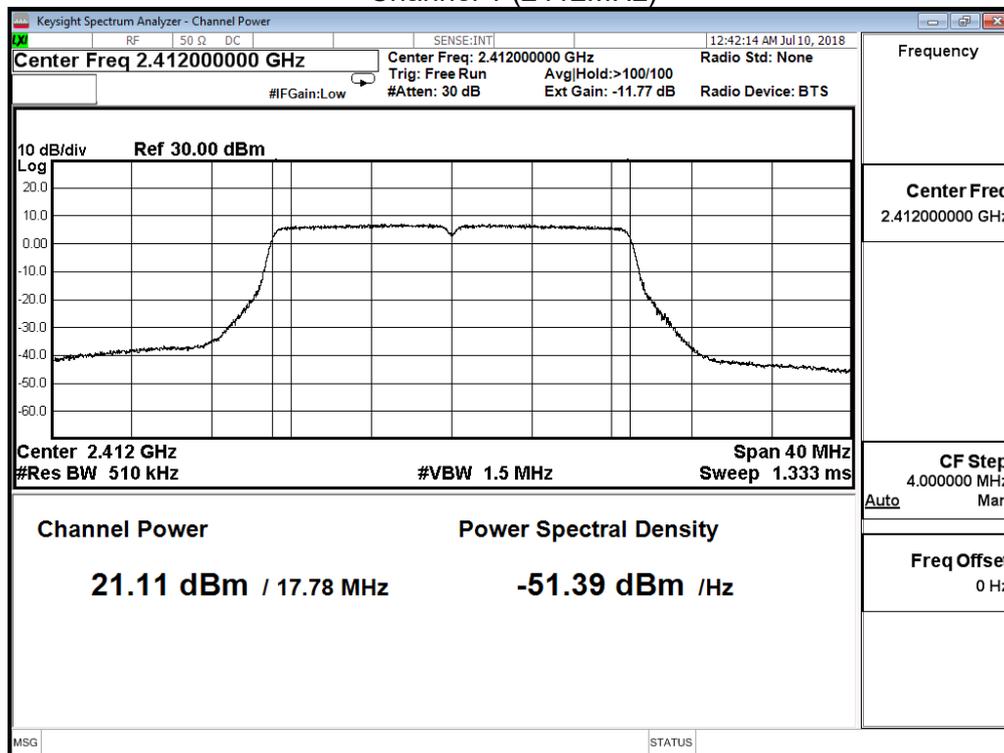
IEEE 802.11ac 20M (ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	21.110	≤ 30
6	2437	26.020	≤ 30
11	2462	20.710	≤ 30

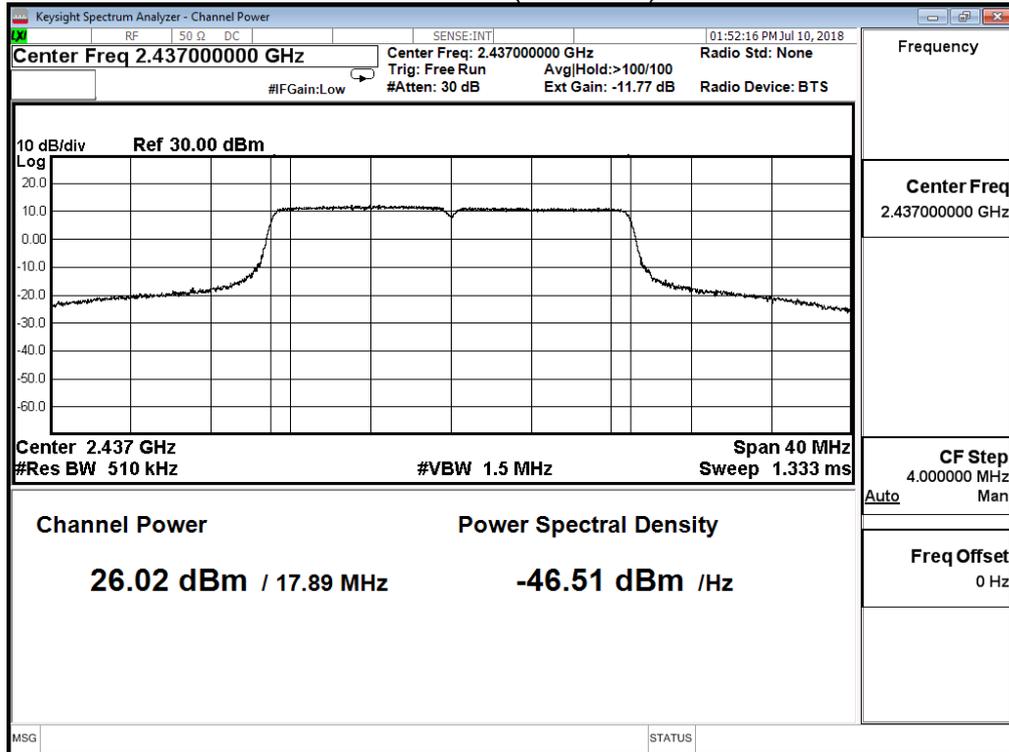
The worst emission of data rate is MCS 0

Maximum peak conducted output power (dBm)												
Channel No	Frequency (MHz)	MCS Index										Required Limit (dBm)
		0	1	2	3	4	5	6	7	8	9	
1	2412	21.110	--	--	--	--	--	--	--	--	--	≤ 30
6	2437	26.020	25.980	25.950	25.900	25.860	25.810	25.760	25.710	25.650	25.600	≤ 30
11	2462	20.710	--	--	--	--	--	--	--	--	--	≤ 30

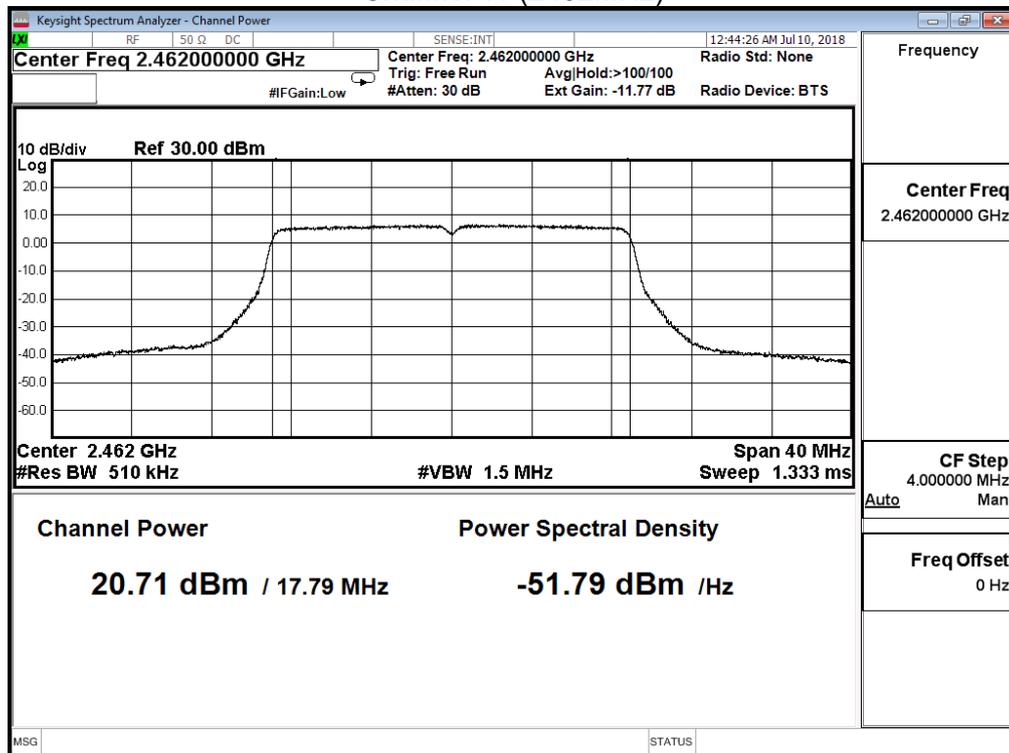
Channel 1 (2412MHz)



### Channel 6 (2437MHz)



### Channel 11 (2462MHz)



Product	Wireless-AC2200 Tri Band Gigabit Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: Transmit_CDD_ADP-45BW B		
Date of Test	2018/07/10	Test Site	SR10-H

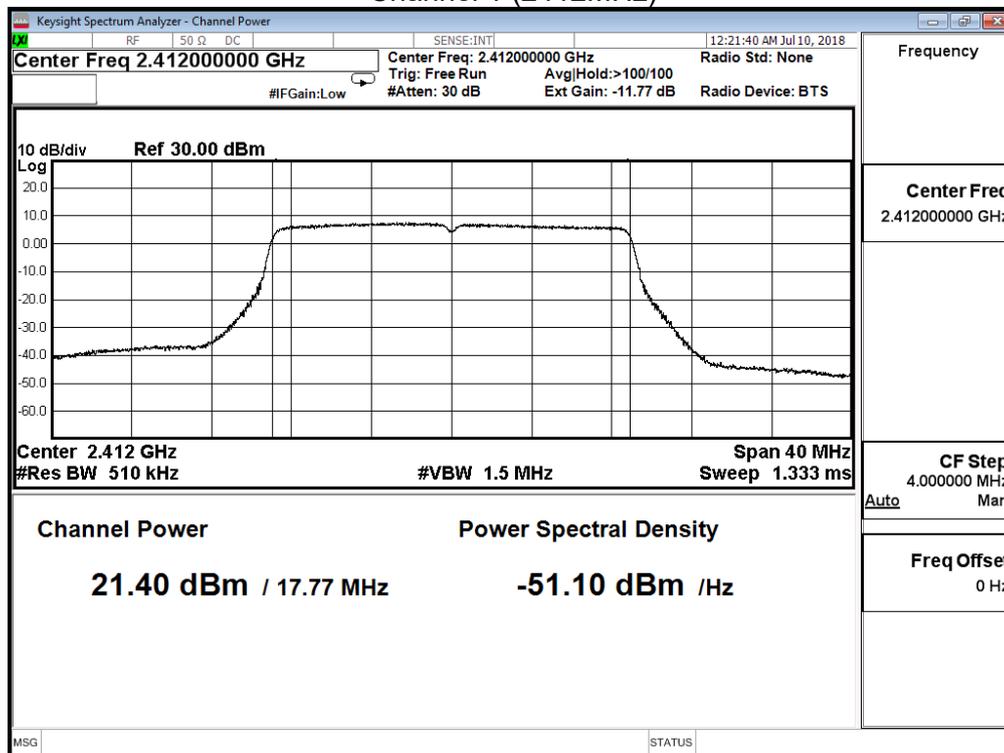
IEEE 802.11ac 20M (ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	21.400	≤ 30
6	2437	26.060	≤ 30
11	2462	20.770	≤ 30

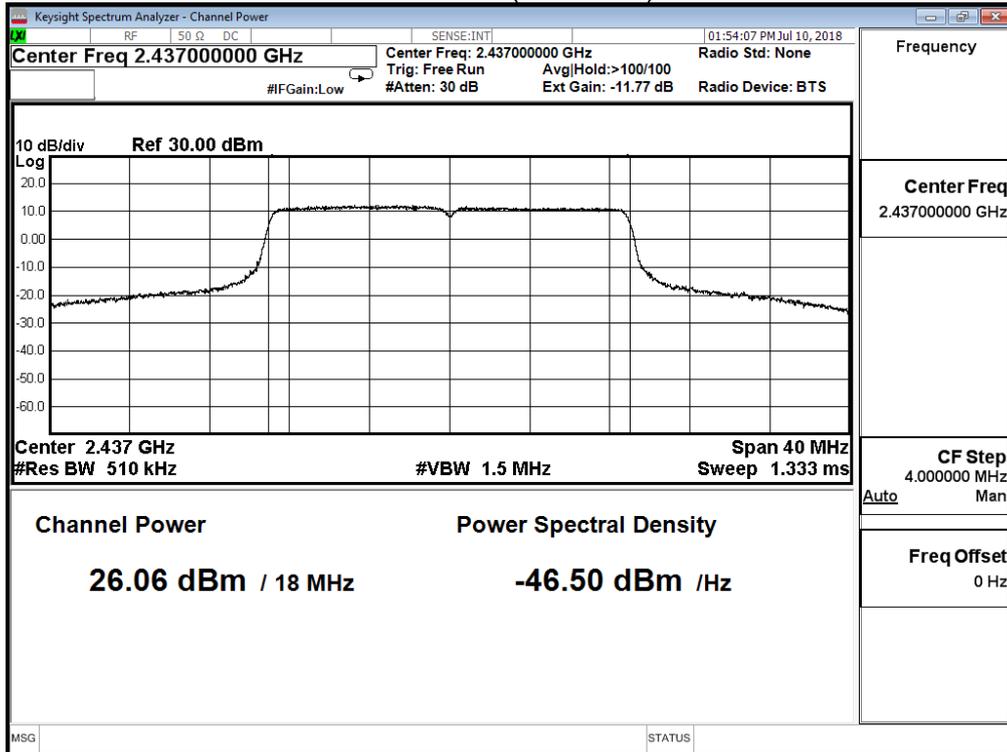
The worst emission of data rate is MCS 0

Maximum peak conducted output power (dBm)												
Channel No	Frequency (MHz)	MCS Index										Required Limit (dBm)
		0	1	2	3	4	5	6	7	8	9	
1	2412	21.400	--	--	--	--	--	--	--	--	--	≤ 30
6	2437	26.060	26.020	25.990	25.940	25.900	25.850	25.800	25.750	25.690	25.650	≤ 30
11	2462	20.770	--	--	--	--	--	--	--	--	--	≤ 30

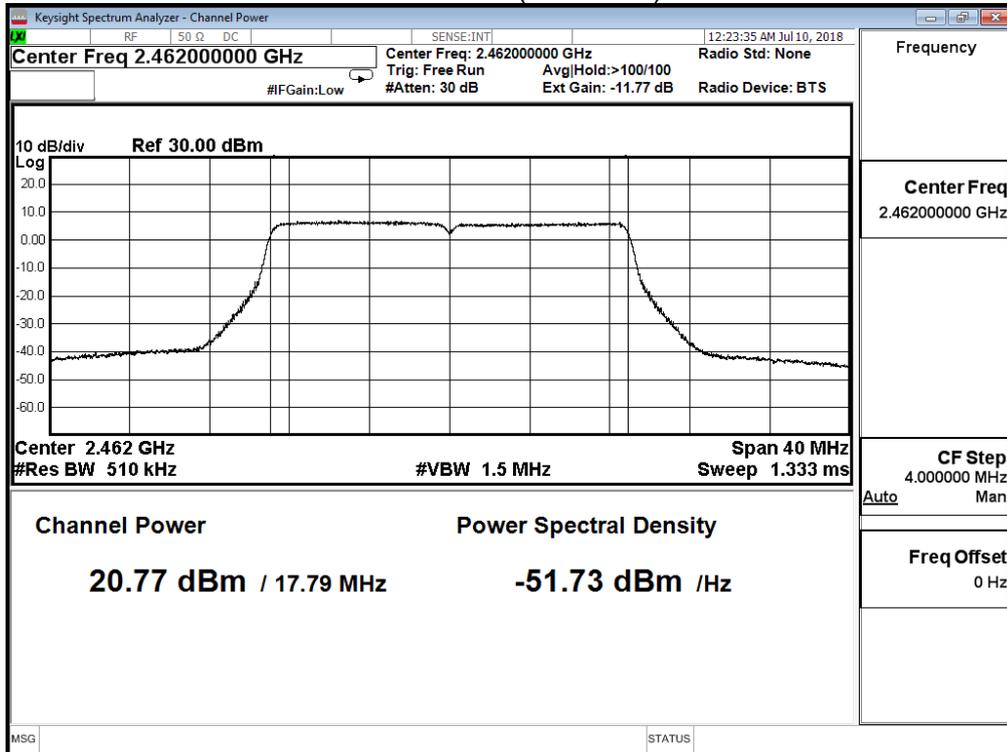
Channel 1 (2412MHz)



### Channel 6 (2437MHz)



### Channel 11 (2462MHz)



Product	Wireless-AC2200 Tri Band Gigabit Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: Transmit_CDD_AD P-45BW B		
Date of Test	2018/07/10	Test Site	SR10-H

IEEE 802.11ac 20M (ANT 0+1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	24.268	$\leq 30$
6	2437	29.050	$\leq 30$
11	2462	23.750	$\leq 30$

Product	Wireless-AC2200 Tri Band Gigabit Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: Transmit_CDD_ADP-45BW B		
Date of Test	2018/07/10	Test Site	SR10-H

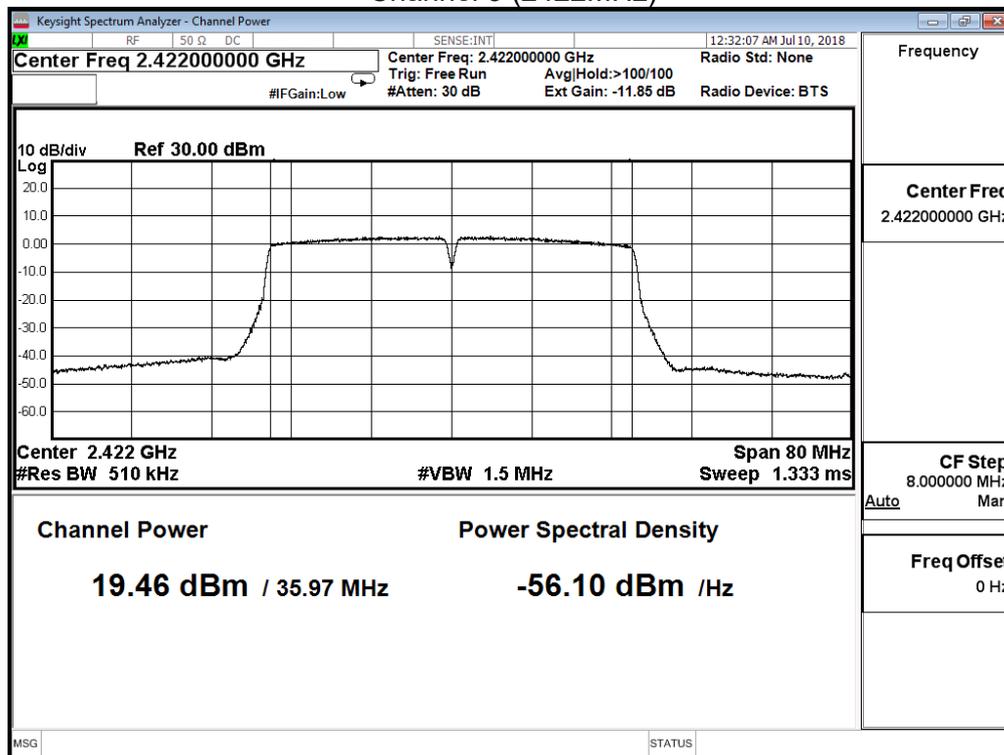
IEEE 802.11ac 40M (ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
3	2422	19.460	≤ 30
6	2437	22.310	≤ 30
9	2452	20.060	≤ 30

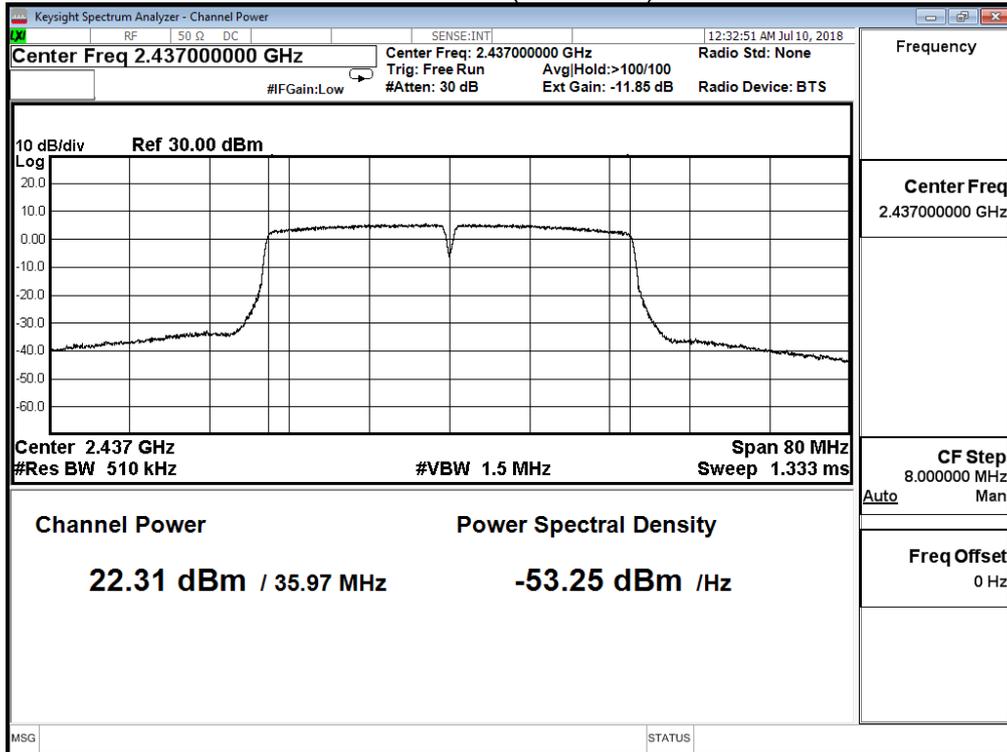
The worst emission of data rate is MCS 0

Maximum peak conducted output power (dBm)													
Channel No	Frequency (MHz)	MCS Index										Required Limit (dBm)	
		0	1	2	3	4	5	6	7	8	9		
3	2422	19.460	--	--	--	--	--	--	--	--	--	--	≤ 30
6	2437	22.310	22.270	22.240	22.190	22.150	22.100	22.050	22.000	21.940	21.880		≤ 30
9	2452	20.060	--	--	--	--	--	--	--	--	--	--	≤ 30

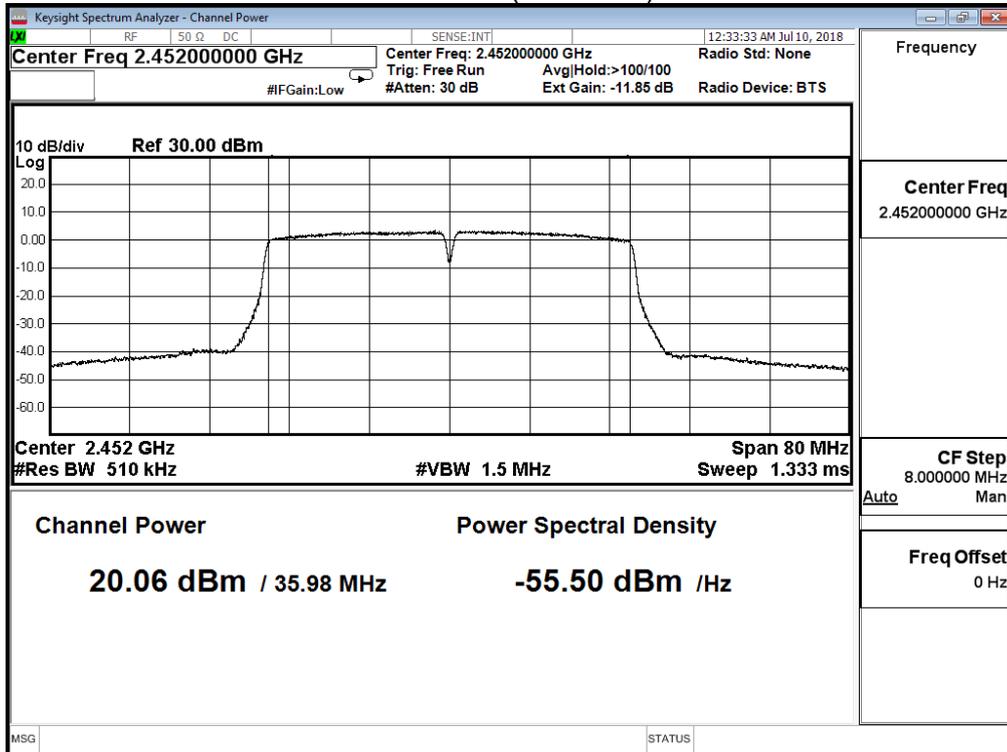
Channel 3 (2422MHz)



### Channel 6 (2437MHz)



### Channel 9 (2452MHz)



Product	Wireless-AC2200 Tri Band Gigabit Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: Transmit_CDD_ADP-45BW B		
Date of Test	2018/07/10	Test Site	SR10-H

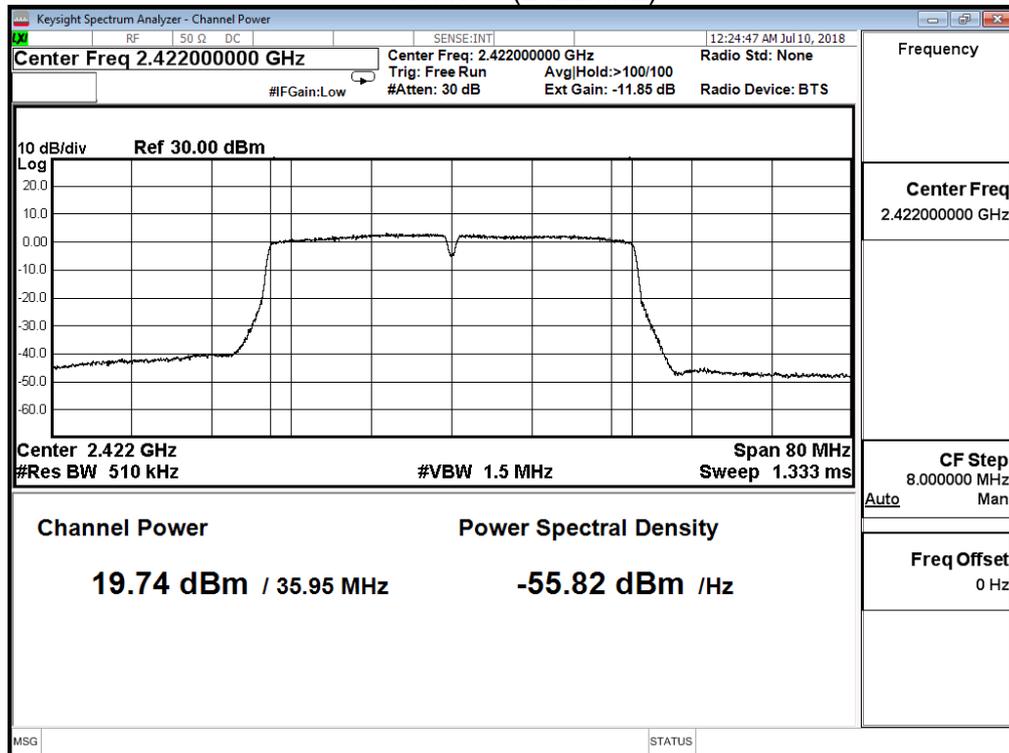
IEEE 802.11ac 40M (ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
3	2422	19.740	≤ 30
6	2437	22.590	≤ 30
9	2452	20.280	≤ 30

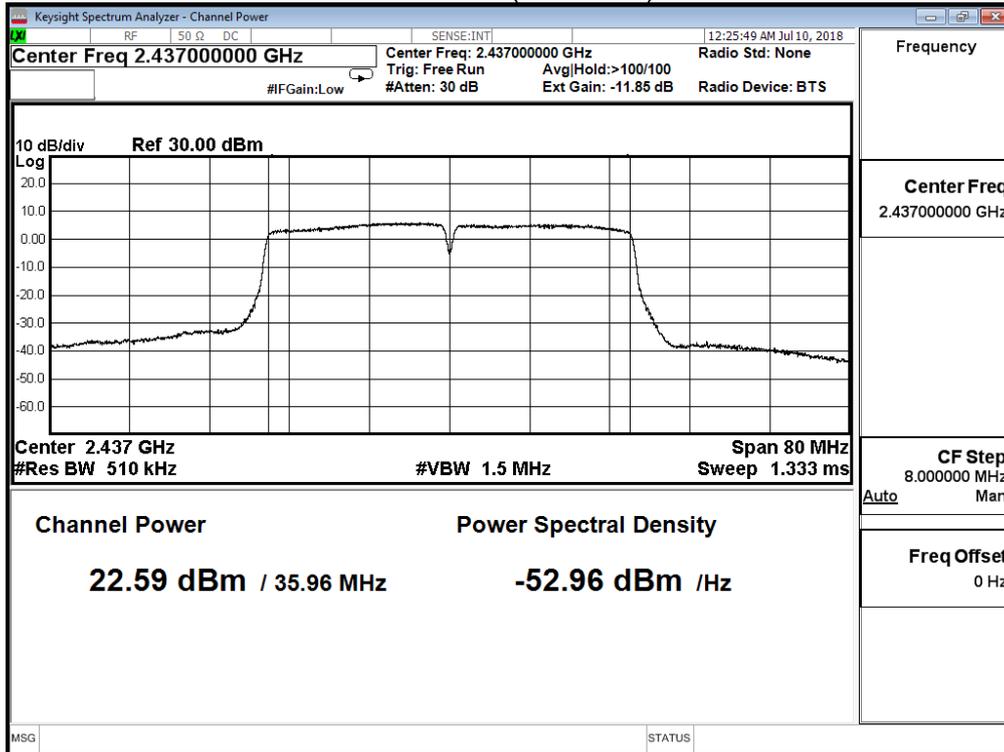
The worst emission of data rate is MCS 0

Maximum peak conducted output power (dBm)													
Channel No	Frequency (MHz)	MCS Index										Required Limit (dBm)	
		0	1	2	3	4	5	6	7	8	9		
3	2422	19.740	--	--	--	--	--	--	--	--	--	--	≤ 30
6	2437	22.590	22.550	22.520	22.470	22.430	22.380	22.330	22.280	22.240	22.180		≤ 30
9	2452	20.280	--	--	--	--	--	--	--	--	--	--	≤ 30

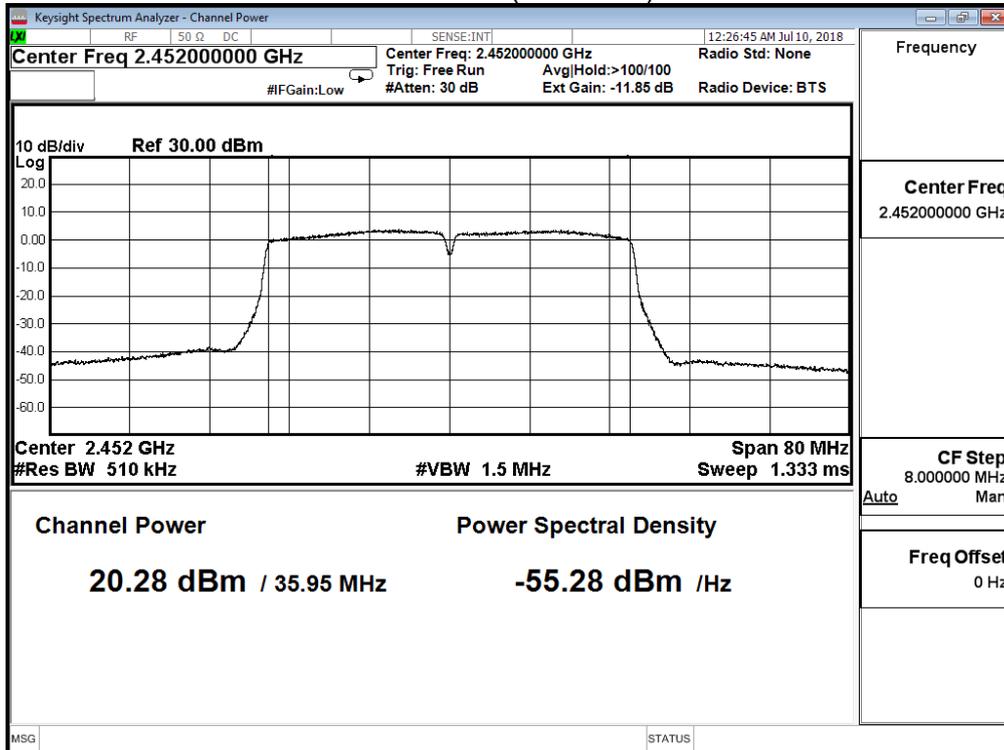
Channel 3 (2422MHz)



### Channel 6 (2437MHz)



### Channel 9 (2452MHz)



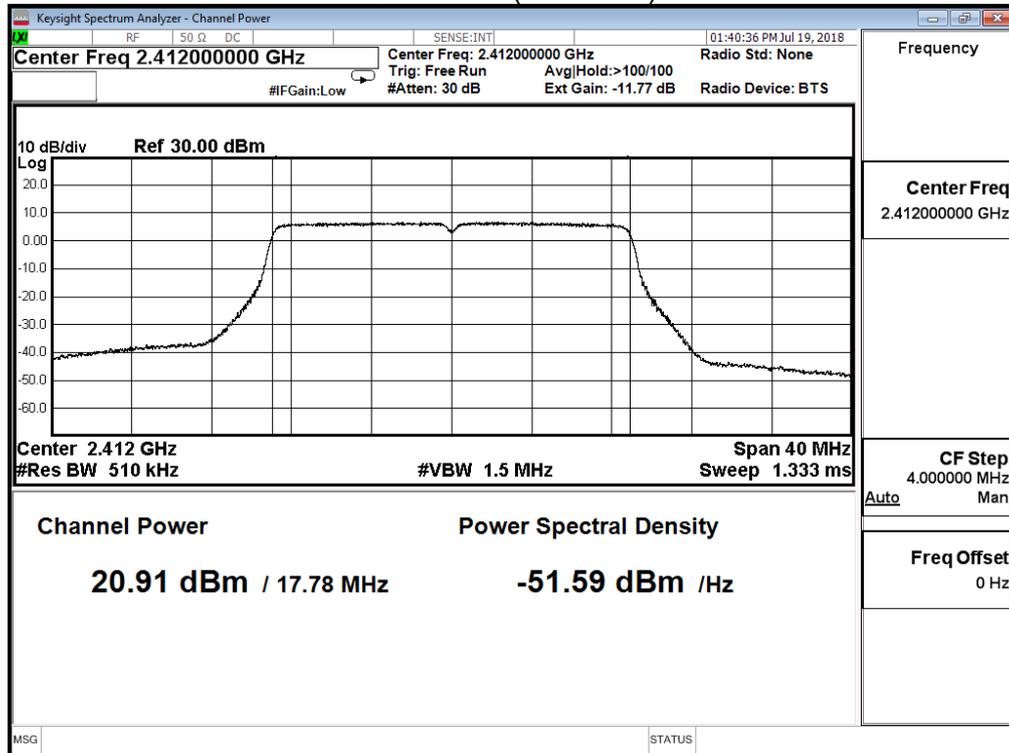
Product	Wireless-AC2200 Tri Band Gigabit Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: Transmit_CDD_ADP-45BW B		
Date of Test	2018/07/10	Test Site	SR10-H

IEEE 802.11ac 40M (ANT 0+1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
3	2422	22.613	$\leq 30$
6	2437	25.463	$\leq 30$
9	2452	23.182	$\leq 30$

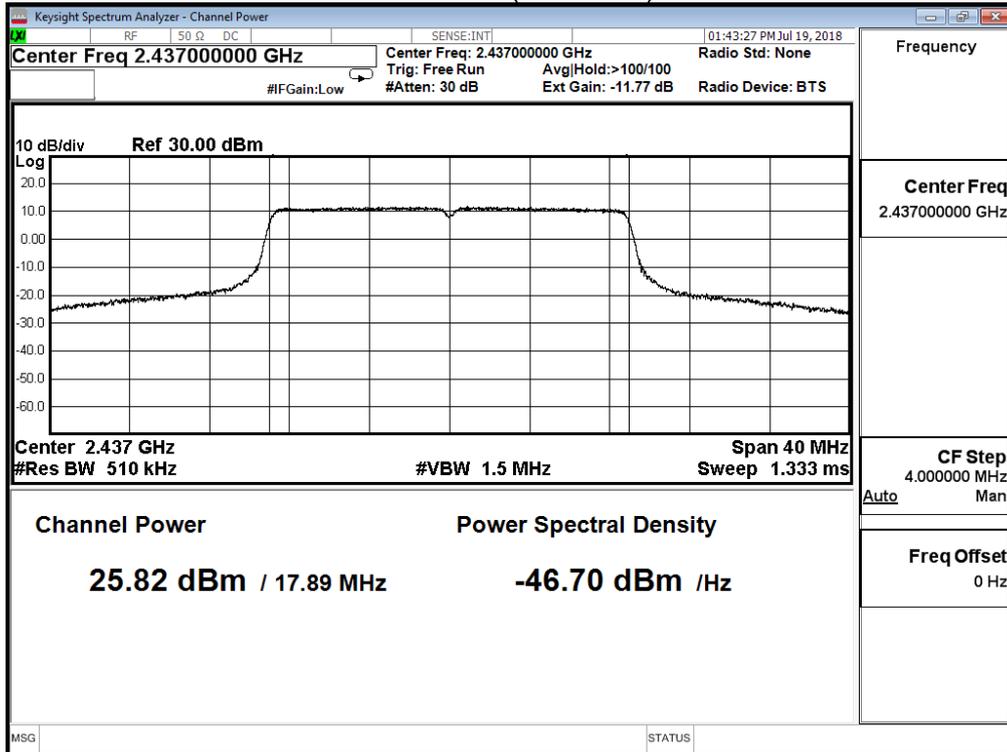
Product	Wireless-AC2200 Tri Band Gigabit Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 5: Transmit _BF_ADP-45BW B		
Date of Test	2018/07/19	Test Site	SR10-H

IEEE 802.11ac 20M (ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	20.910	≤ 30
6	2437	25.820	≤ 30
11	2462	20.620	≤ 30

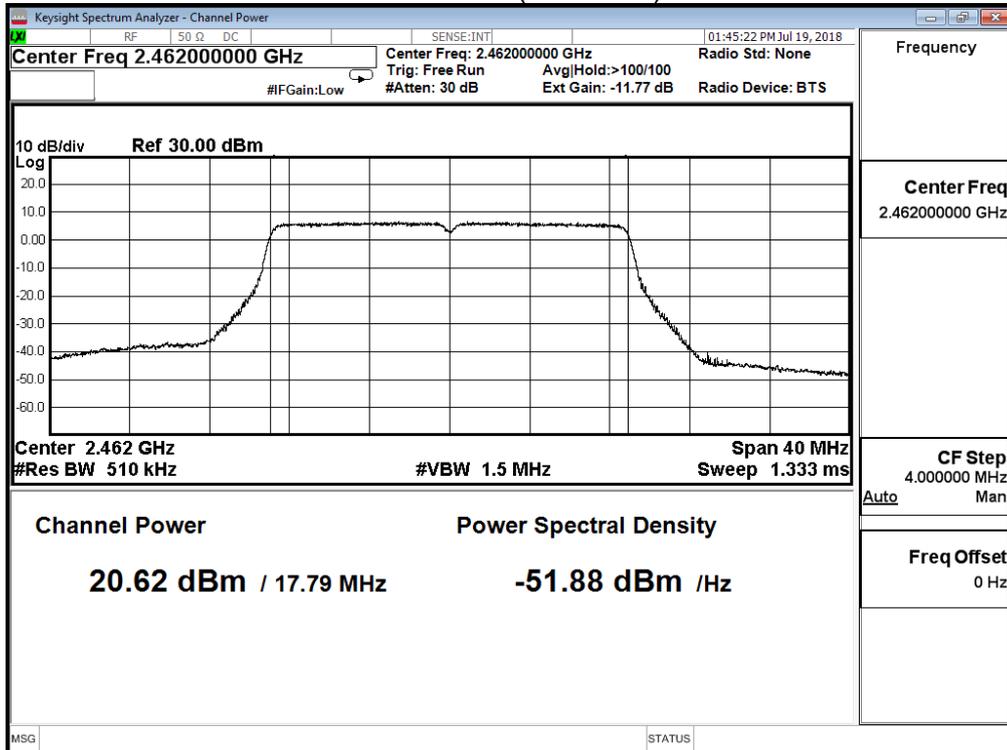
Channel 1 (2412MHz)



### Channel 6 (2437MHz)



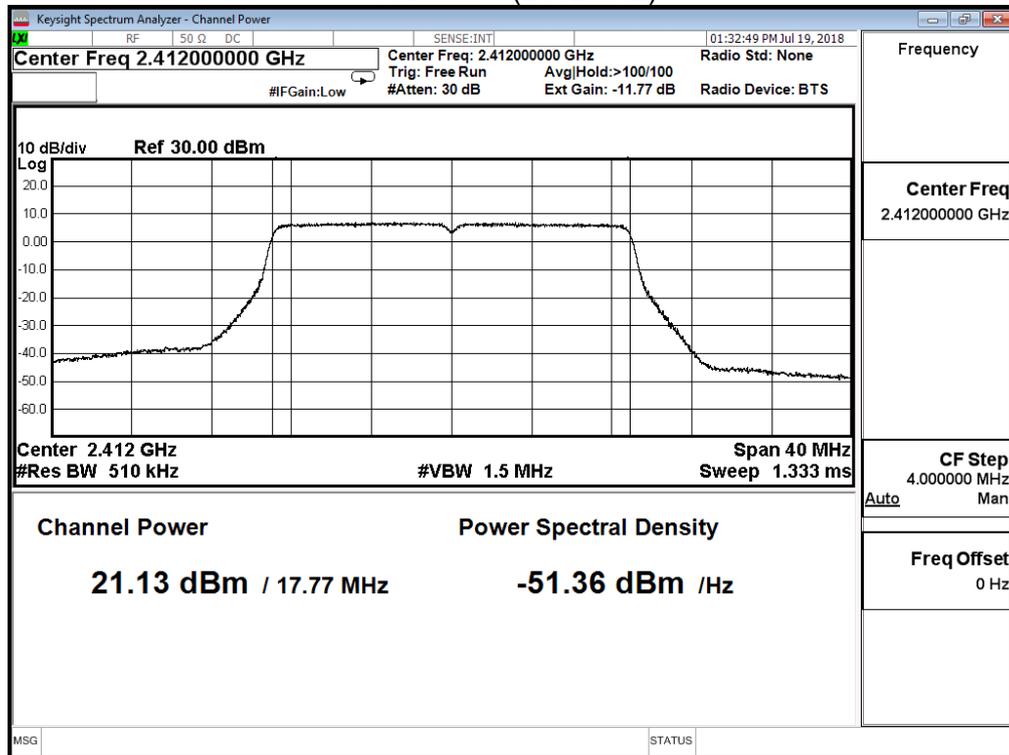
### Channel 11 (2462MHz)



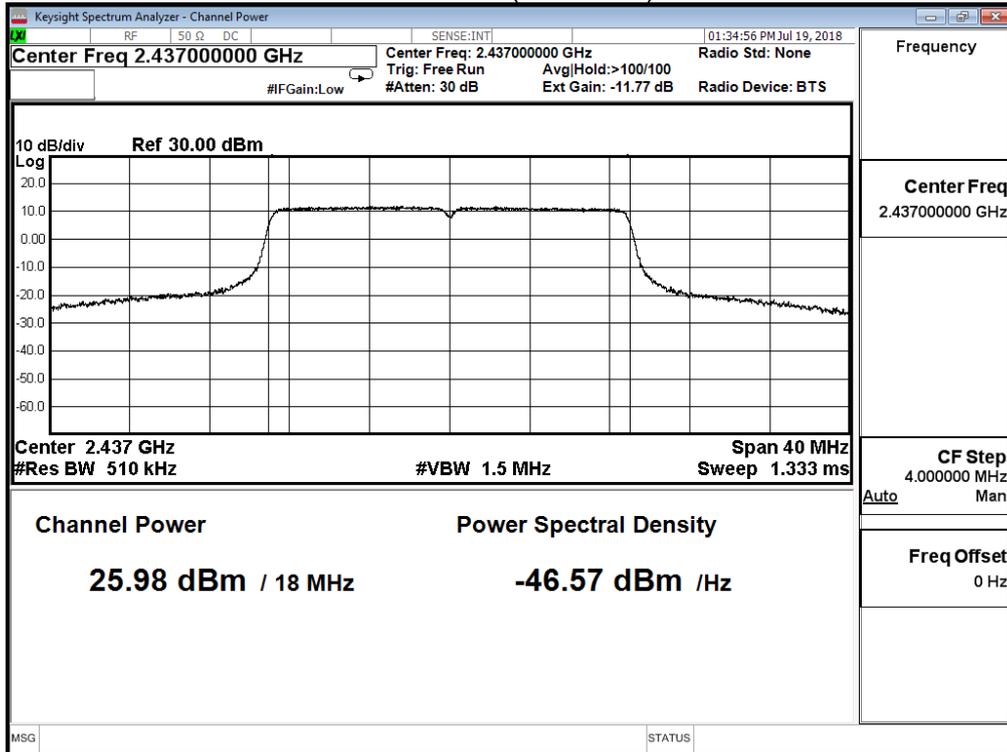
Product	Wireless-AC2200 Tri Band Gigabit Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 5: Transmit_BF_ADP-45BW B		
Date of Test	2018/07/19	Test Site	SR10-H

IEEE 802.11ac 20M (ANT 1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	21.130	≤ 30
6	2437	25.980	≤ 30
11	2462	20.640	≤ 30

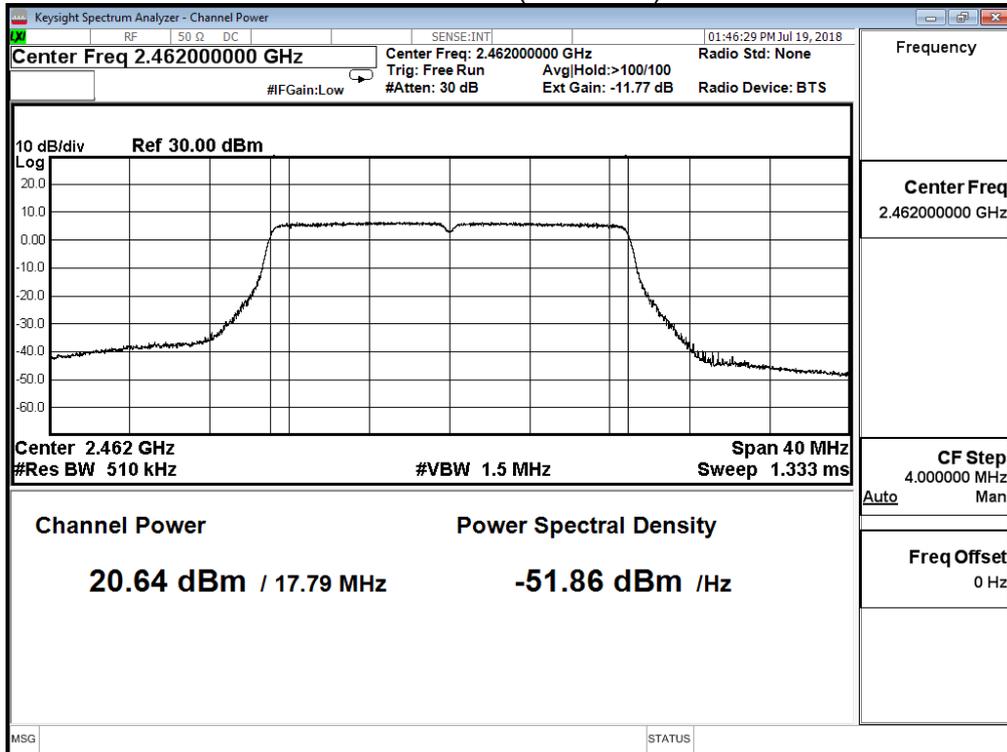
Channel 1 (2412MHz)



### Channel 6 (2437MHz)



### Channel 11 (2462MHz)



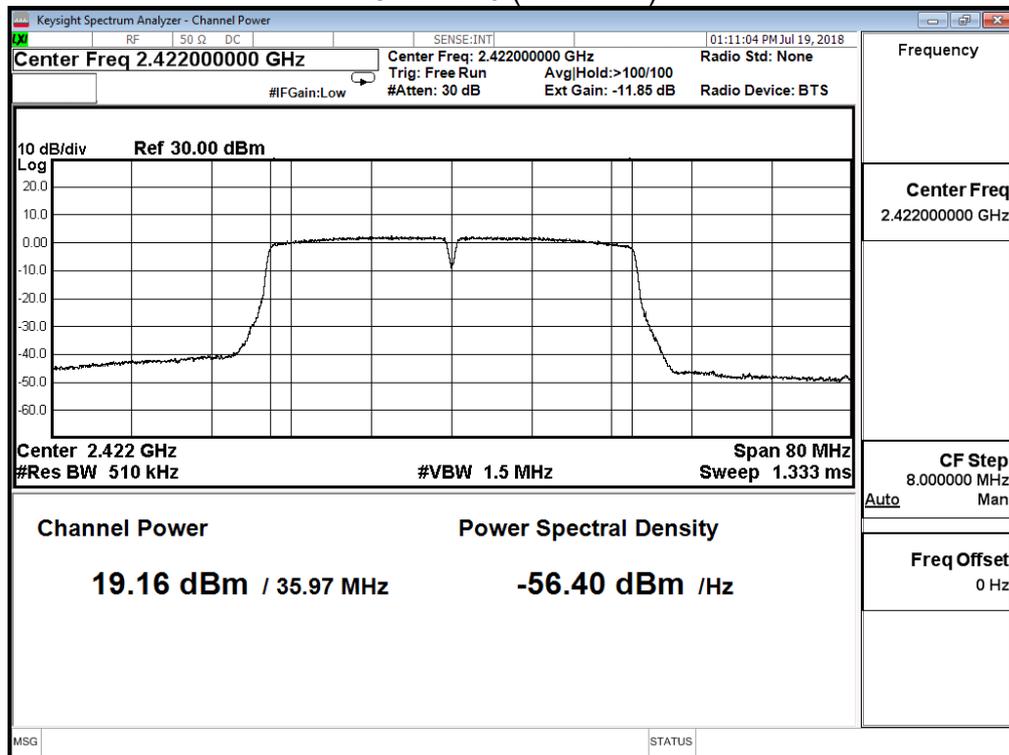
Product	Wireless-AC2200 Tri Band Gigabit Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 5: Transmit_BF_ADP-45BW B		
Date of Test	2018/07/19	Test Site	SR10-H

IEEE 802.11ac 20M (ANT 0+1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	24.032	$\leq 30$
6	2437	28.911	$\leq 30$
11	2462	23.640	$\leq 30$

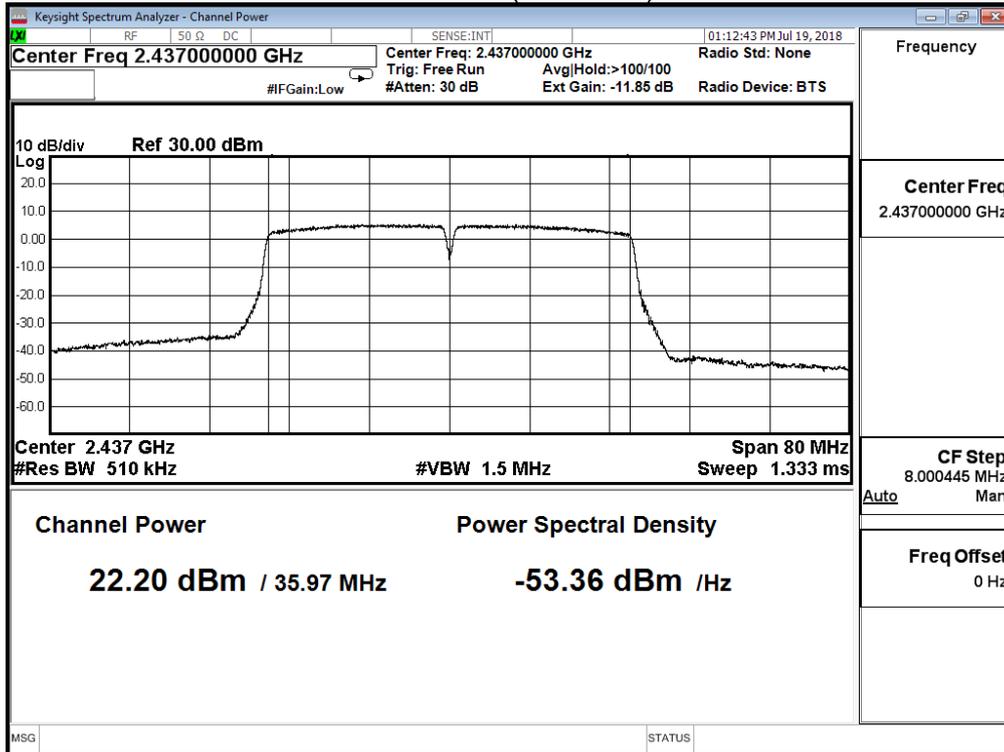
Product	Wireless-AC2200 Tri Band Gigabit Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 5: Transmit _BF_AD P-45BW B		
Date of Test	2018/07/19	Test Site	SR10-H

IEEE 802.11ac 40M (ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
3	2422	19.160	≤ 30
6	2437	22.200	≤ 30
9	2452	19.970	≤ 30

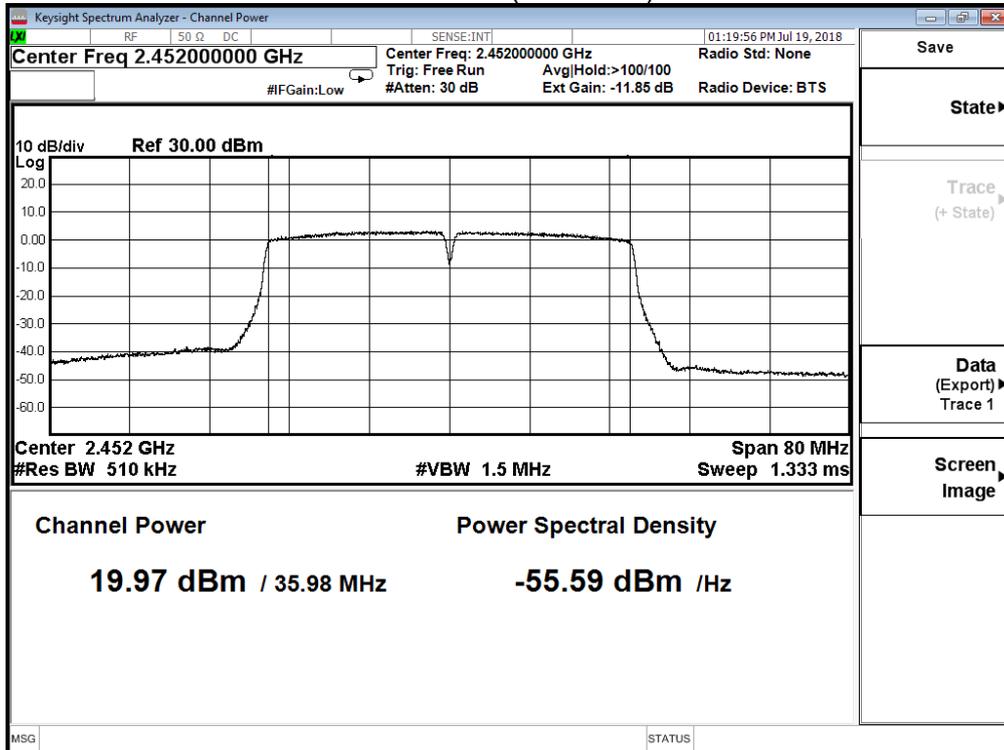
Channel 3 (2422MHz)



### Channel 6 (2437MHz)



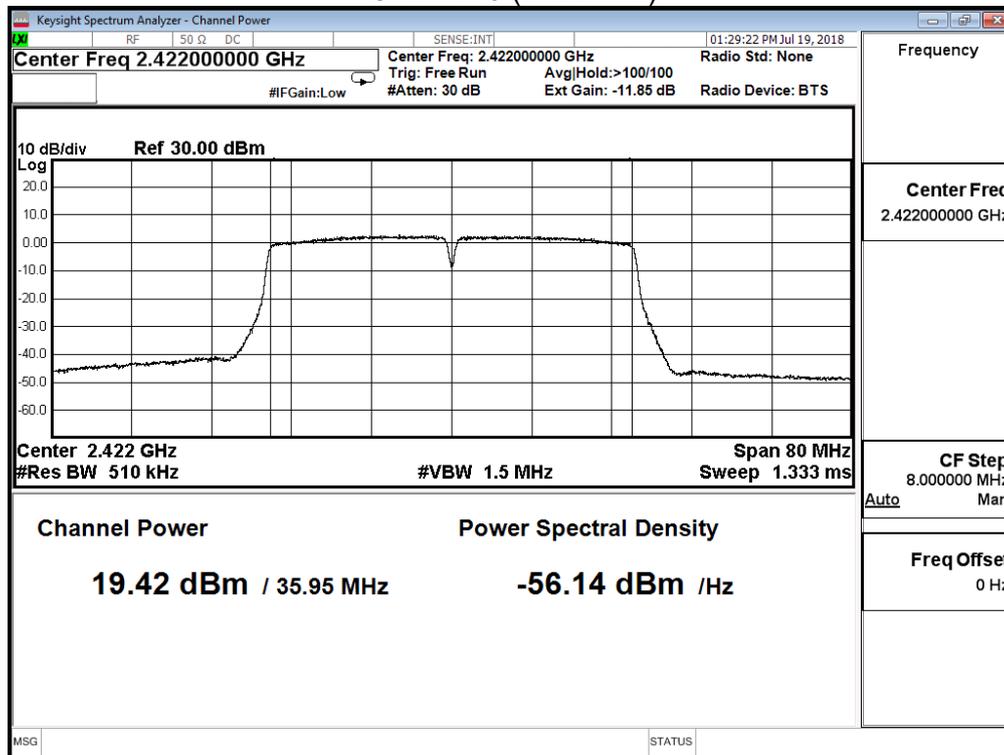
### Channel 9 (2452MHz)



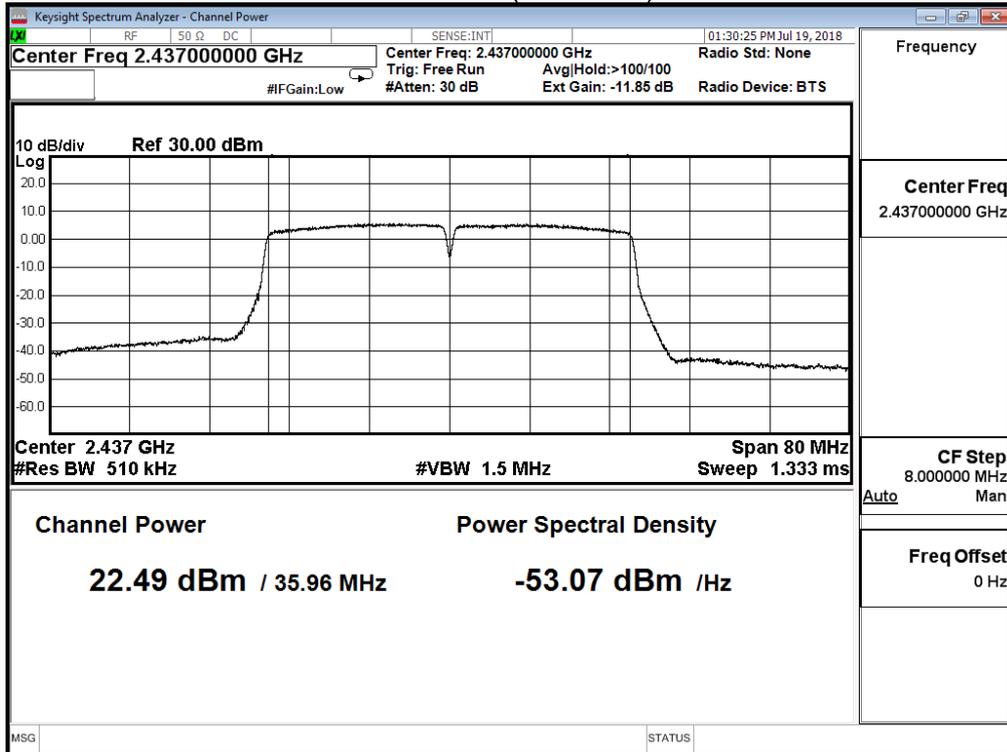
Product	Wireless-AC2200 Tri Band Gigabit Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 5: Transmit _BF _ADP-45BW B		
Date of Test	2018/07/19	Test Site	SR10-H

IEEE 802.11ac 40M (ANT 1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
3	2422	19.420	≤ 30
6	2437	22.490	≤ 30
9	2452	20.130	≤ 30

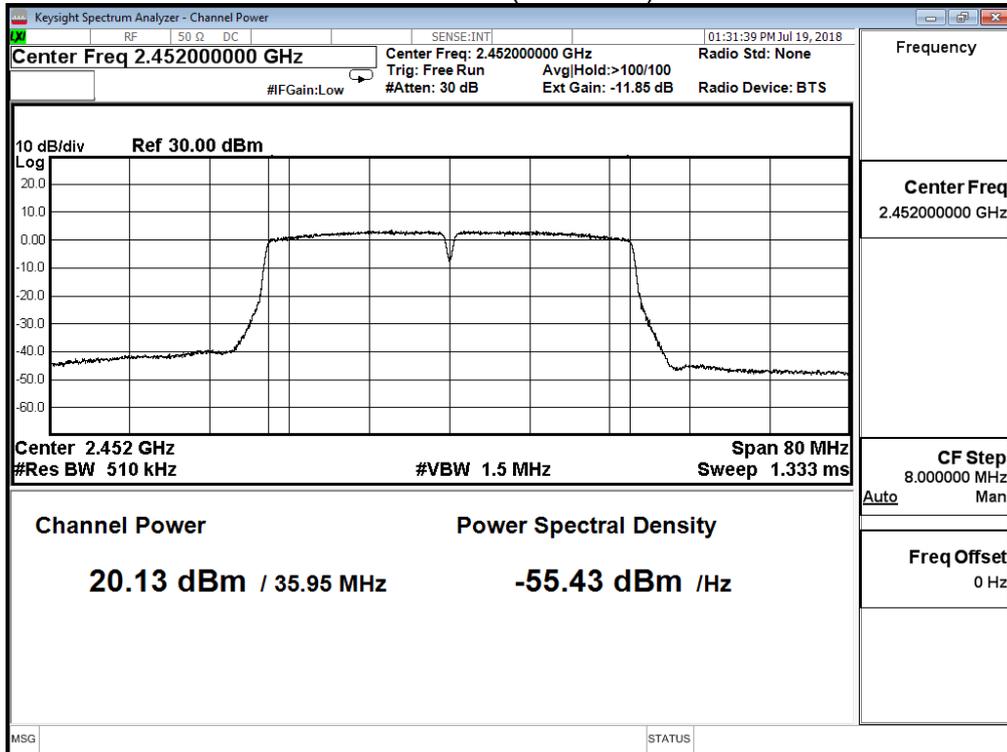
Channel 3 (2422MHz)



### Channel 6 (2437MHz)



### Channel 9 (2452MHz)



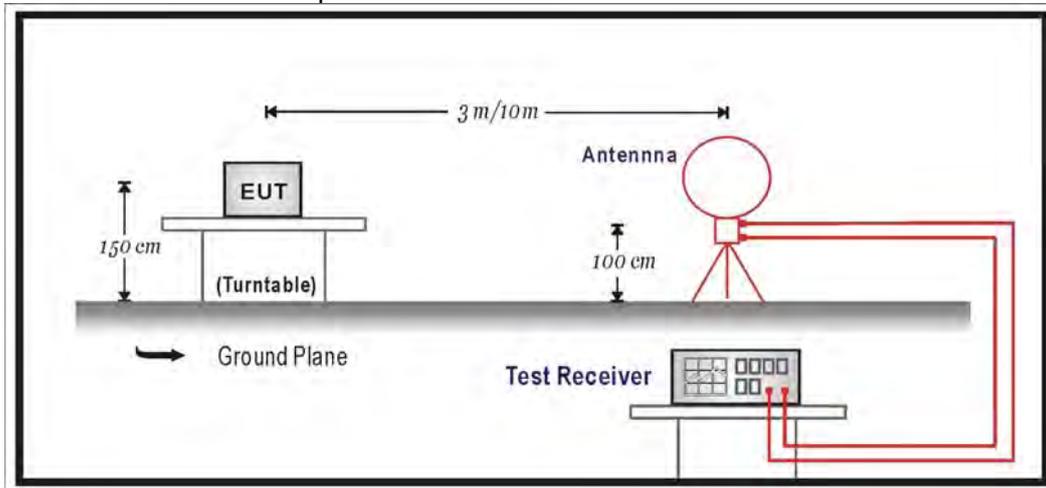
Product	Wireless-AC2200 Tri Band Gigabit Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 5: Transmit _BF _ADP-45BW B		
Date of Test	2018/07/19	Test Site	SR10-H

IEEE 802.11ac 40M (ANT 0+1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
3	2422	22.302	$\leq 30$
6	2437	25.358	$\leq 30$
9	2452	23.061	$\leq 30$

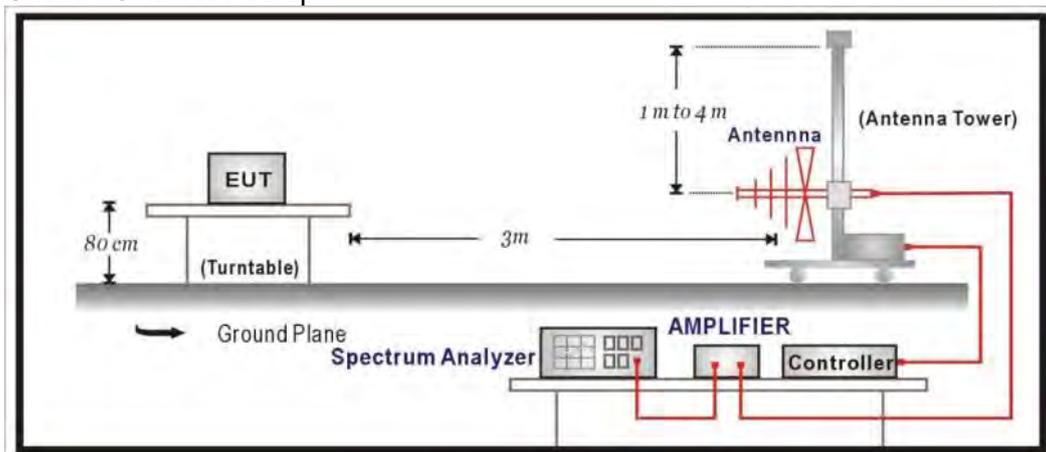
## 4. Radiated Emission

### 4.1. Test Setup

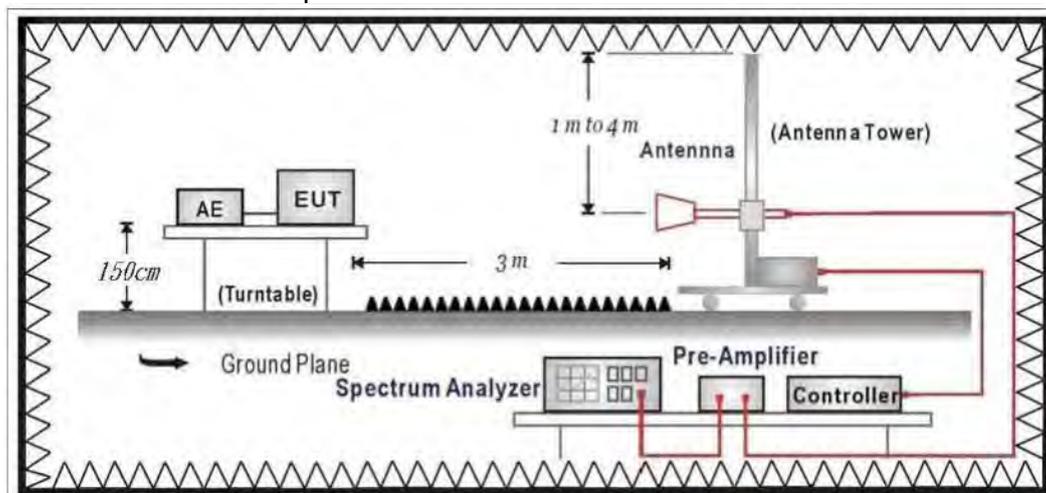
Under 30MHz Test Setup:



Under 1GHz Test Setup:



Above 1GHz Test Setup:



## 4.2. 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.

<b>FCC Part 15 Subpart C Paragraph 15.209 Limits</b>		
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)

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### **4.3. Test Procedure**

The EUT was setup according to ANSI C63.10:2013 and tested according to DTS test procedure of KDB 558074 D01 V05 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.

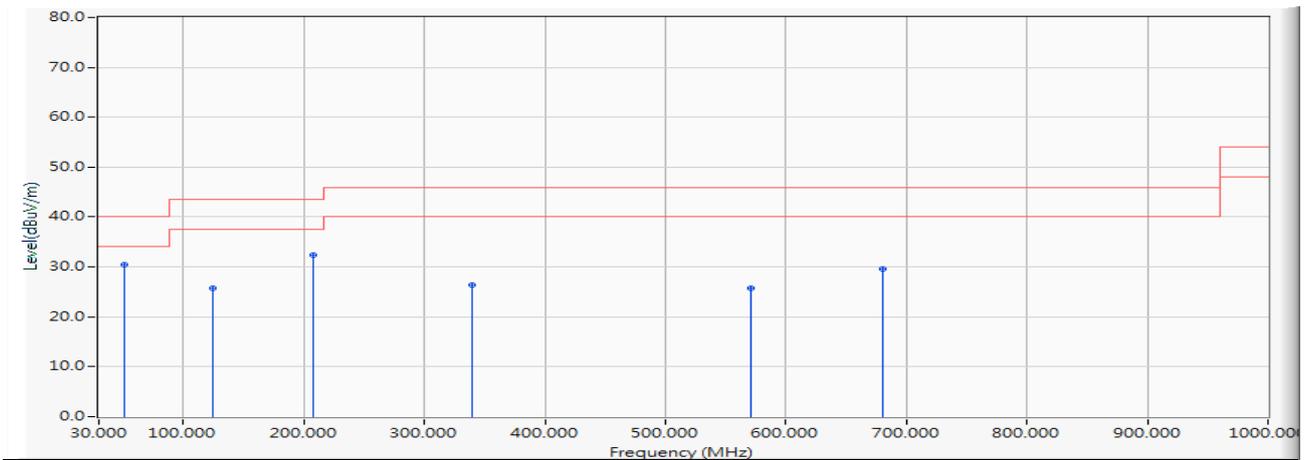
### **4.4. Test Specification**

According to FCC Part 15 Subpart C Paragraph 15.247: 2017

### 4.5. Test Result

#### 30MHz-1GHz Spurious

Site : DEKRA Taiwan CB2-H	Time : 2018/08/04
Limit : FCC CLASS B_03M_QP	Margin : 6
Probe : CB2-H_FCC_EFS_S2_30M-1GHz_1116 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_ADP-45BW B 802.11b_2437MHz

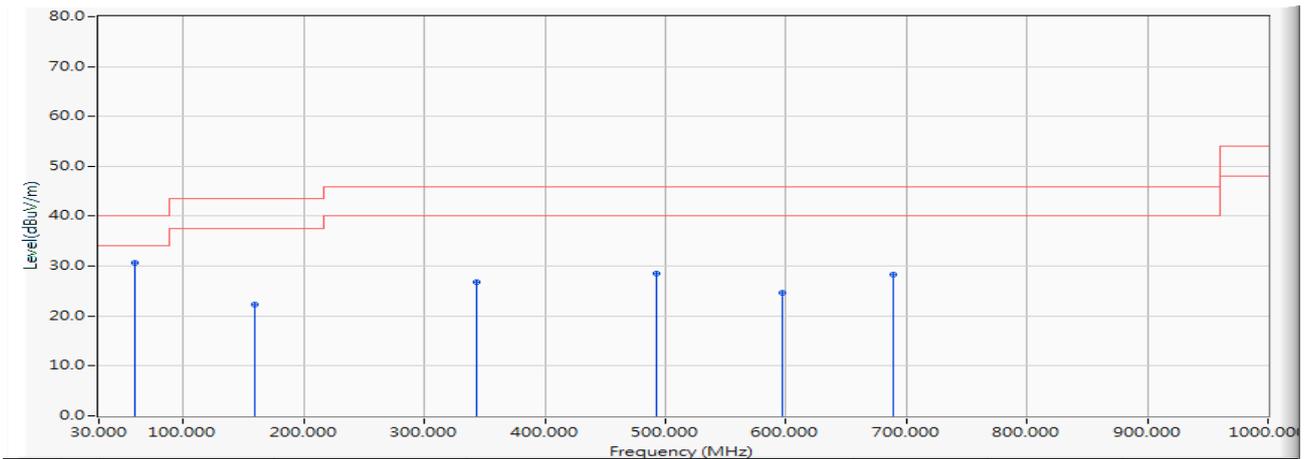


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	50.564	-25.548	55.973	30.425	-9.575	40.000	QUASIPeAK
2		125.060	-21.221	46.875	25.654	-17.846	43.500	QUASIPeAK
3		207.801	-22.749	55.150	32.401	-11.099	43.500	QUASIPeAK
4		340.012	-17.873	44.354	26.481	-19.519	46.000	QUASIPeAK
5		570.872	-13.282	39.126	25.844	-20.156	46.000	QUASIPeAK
6		680.094	-11.806	41.398	29.592	-16.408	46.000	QUASIPeAK

Note:

1. All Reading Levels is Quasi-Peak value.
2. “ \* ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor
4. The Emission under 30MHz were not included is because their levels are too low.
5. The emission form 9KHz to 30MHz Radiated emission were not show in the test report, because Pre-scan lower than the limit line

Site : DEKRA Taiwan CB2-H	Time : 2018/08/04
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB2-H_FCC_EFS_S2_30M-1GHz_1116 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_ADP-45BW B 802.11b_2437MHz

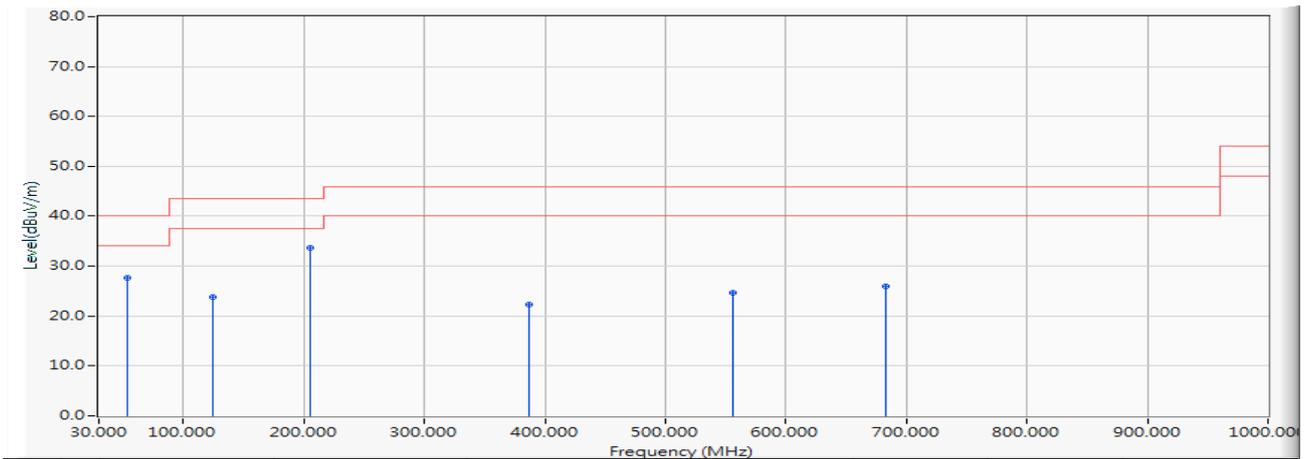


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	59.294	-28.002	58.724	30.722	-9.278	40.000	QUASIPeAK
2		159.689	-22.925	45.138	22.213	-21.287	43.500	QUASIPeAK
3		343.213	-17.769	44.495	26.727	-19.273	46.000	QUASIPeAK
4		492.011	-14.532	42.990	28.458	-17.542	46.000	QUASIPeAK
5		596.480	-13.320	37.955	24.635	-21.365	46.000	QUASIPeAK
6		689.697	-12.258	40.462	28.205	-17.795	46.000	QUASIPeAK

Note:

1. All Reading Levels is Quasi-Peak value.
2. “ \* ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor
4. The Emission under 30MHz were not included is because their levels are too low.
5. The emission form 9KHz to 30MHz Radiated emission were not show in the test report, because Pre-scan lower than the limit line

Site : DEKRA Taiwan CB2-H	Time : 2018/08/04
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB2-H_FCC_EFS_S2_30M-1GHz_1116 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_ADP-45BW B 802.11g_2437MHz

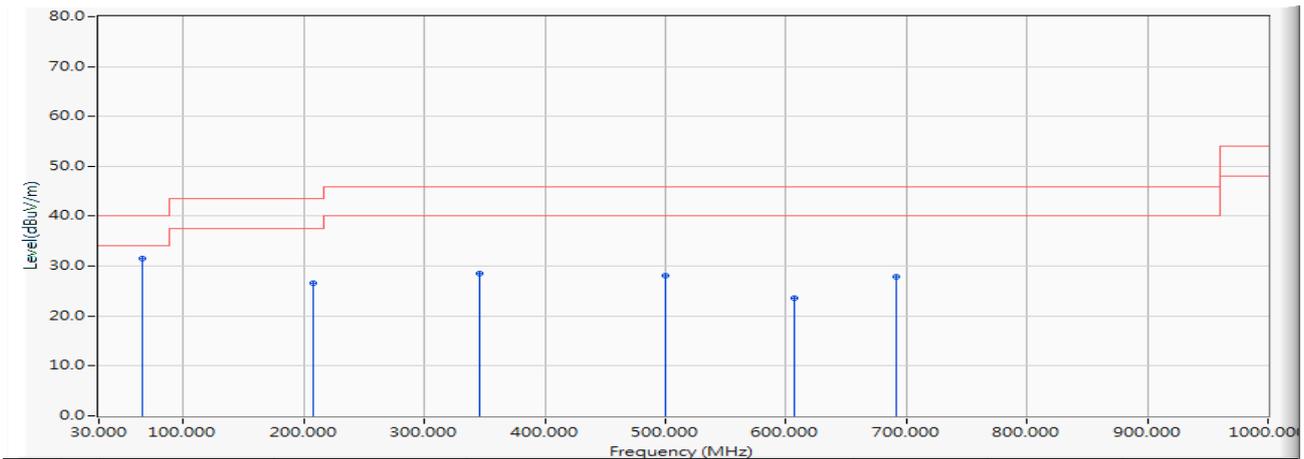


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	53.086	-26.259	53.833	27.575	-12.425	40.000	QUASIPeAK
2	124.963	-21.220	45.059	23.840	-19.660	43.500	QUASIPeAK
3	* 205.570	-22.917	56.596	33.678	-9.822	43.500	QUASIPeAK
4	387.154	-16.670	38.987	22.317	-23.683	46.000	QUASIPeAK
5	556.225	-13.548	38.180	24.632	-21.368	46.000	QUASIPeAK
6	682.907	-11.935	37.854	25.919	-20.081	46.000	QUASIPeAK

Note:

1. All Reading Levels is Quasi-Peak value.
2. “ \* ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor
4. The Emission under 30MHz were not included is because their levels are too low.
5. The emission form 9KHz to 30MHz Radiated emission were not show in the test report, because Pre-scan lower than the limit line

Site : DEKRA Taiwan CB2-H	Time : 2018/08/04
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB2-H_FCC_EFS_S2_30M-1GHz_1116 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_ADP-45BW B 802.11g_2437MHz

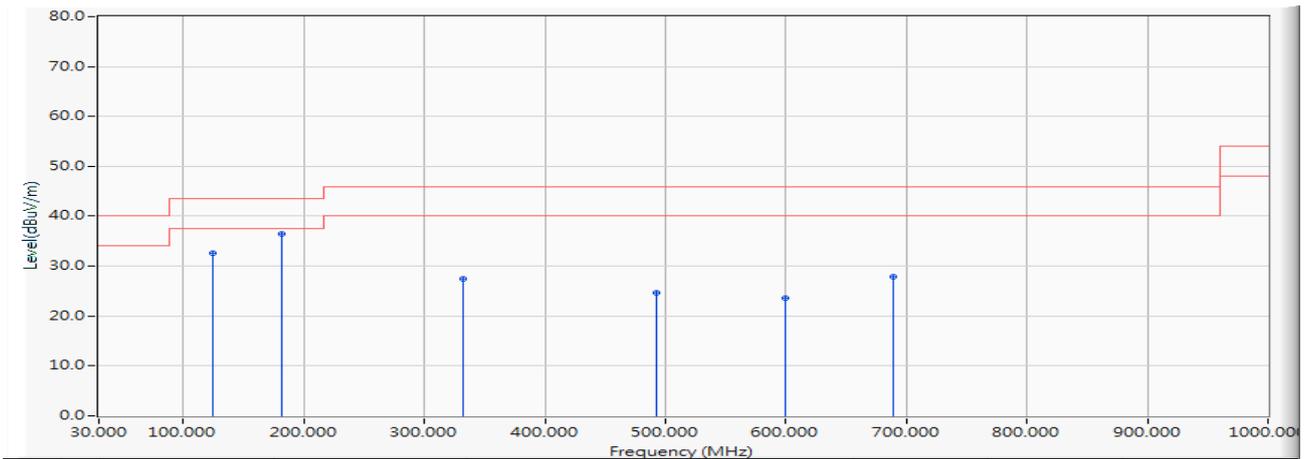


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	66.181	-27.988	59.621	31.633	-8.367	40.000	QUASIPeAK
2		208.092	-22.727	49.222	26.495	-17.005	43.500	QUASIPeAK
3		345.735	-17.692	46.269	28.576	-17.424	46.000	QUASIPeAK
4		500.062	-14.417	42.450	28.032	-17.968	46.000	QUASIPeAK
5		606.762	-12.762	36.354	23.592	-22.408	46.000	QUASIPeAK
6		691.443	-12.320	40.176	27.856	-18.144	46.000	QUASIPeAK

Note:

1. All Reading Levels is Quasi-Peak value.
2. “ \* ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor
4. The Emission under 30MHz were not included is because their levels are too low.
5. The emission form 9KHz to 30MHz Radiated emission were not show in the test report, because Pre-scan lower than the limit line

Site : DEKRA Taiwan CB2-H	Time : 2018/08/04
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB2-H_FCC_EFS_S2_30M-1GHz_1116 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_ADP-45BW B 802.11ac(20M)_2437MHz

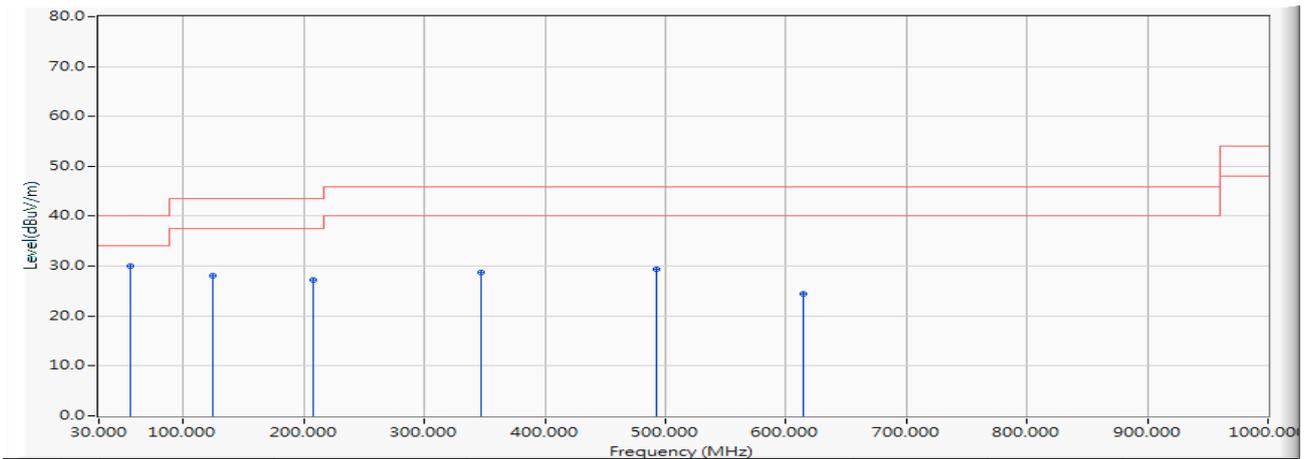


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	125.060	-21.221	53.736	32.515	-10.985	43.500	QUASIPeAK
2	* 181.902	-24.102	60.579	36.477	-7.023	43.500	QUASIPeAK
3	332.446	-18.370	45.781	27.412	-18.588	46.000	QUASIPeAK
4	492.011	-14.532	39.200	24.668	-21.332	46.000	QUASIPeAK
5	599.196	-13.176	36.869	23.693	-22.307	46.000	QUASIPeAK
6	688.727	-12.212	40.099	27.887	-18.113	46.000	QUASIPeAK

Note:

1. All Reading Levels is Quasi-Peak value.
2. “ \* ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor
4. The Emission under 30MHz were not included is because their levels are too low.
5. The emission form 9KHz to 30MHz Radiated emission were not show in the test report, because Pre-scan lower than the limit line

Site : DEKRA Taiwan CB2-H	Time : 2018/08/04
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB2-H_FCC_EFS_S2_30M-1GHz_1116 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_ADP-45BW B 802.11ac(20M)_2437MHz

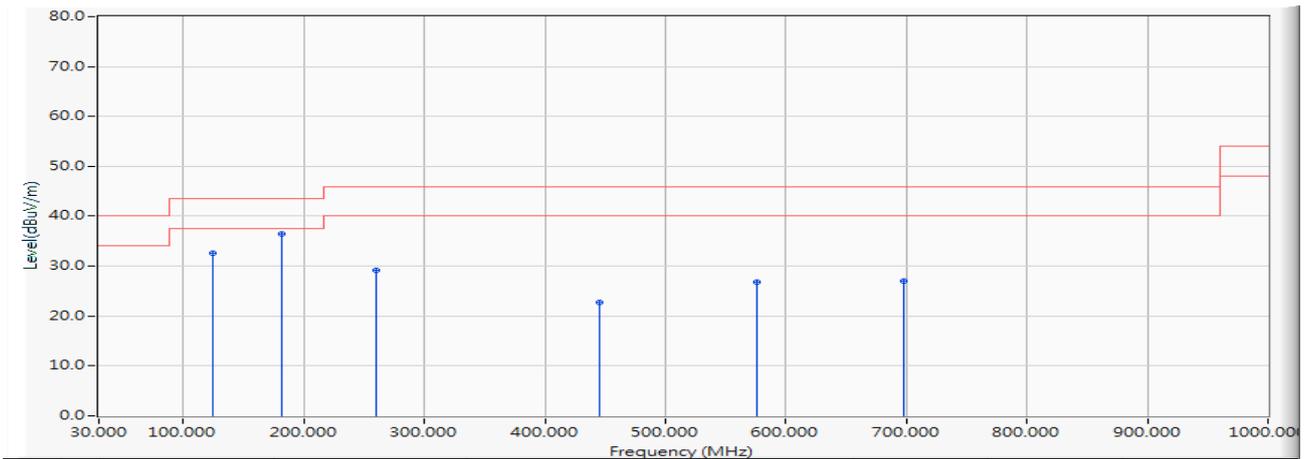


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	56.384	-27.187	57.284	30.097	-9.903	40.000	QUASIPeAK
2		125.060	-21.221	49.310	28.089	-15.411	43.500	QUASIPeAK
3		208.092	-22.727	50.065	27.338	-16.162	43.500	QUASIPeAK
4		347.578	-17.637	46.421	28.784	-17.216	46.000	QUASIPeAK
5		492.011	-14.532	43.992	29.460	-16.540	46.000	QUASIPeAK
6		615.007	-12.450	36.990	24.539	-21.461	46.000	QUASIPeAK

Note:

1. All Reading Levels is Quasi-Peak value.
2. “ \* ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor
4. The Emission under 30MHz were not included is because their levels are too low.
5. The emission form 9KHz to 30MHz Radiated emission were not show in the test report, because Pre-scan lower than the limit line

Site : DEKRA Taiwan CB2-H	Time : 2018/08/04
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB2-H_FCC_EFS_S2_30M-1GHz_1116 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_ADP-45BW B 802.11ac(40M)_2437MHz

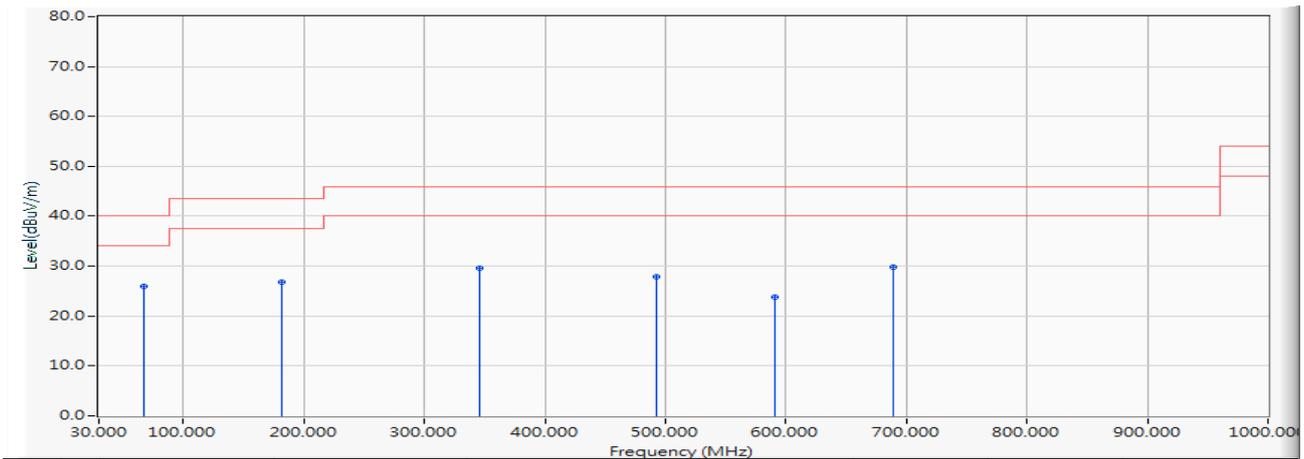


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	125.060	-21.221	53.781	32.560	-10.940	43.500	QUASIPeAK
2	* 181.999	-24.096	60.616	36.519	-6.981	43.500	QUASIPeAK
3	259.793	-20.402	49.501	29.099	-16.901	46.000	QUASIPeAK
4	445.451	-15.239	38.048	22.809	-23.191	46.000	QUASIPeAK
5	576.207	-13.599	40.332	26.733	-19.267	46.000	QUASIPeAK
6	697.554	-12.523	39.620	27.097	-18.903	46.000	QUASIPeAK

Note:

1. All Reading Levels is Quasi-Peak value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor
4. The Emission under 30MHz were not included is because their levels are too low.
5. The emission form 9KHz to 30MHz Radiated emission were not show in the test report, because Pre-scan lower than the limit line

Site : DEKRA Taiwan CB2-H	Time : 2018/08/04
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB2-H_FCC_EFS_S2_30M-1GHz_1116 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_ADP-45BW B 802.11ac(40M)_2437MHz

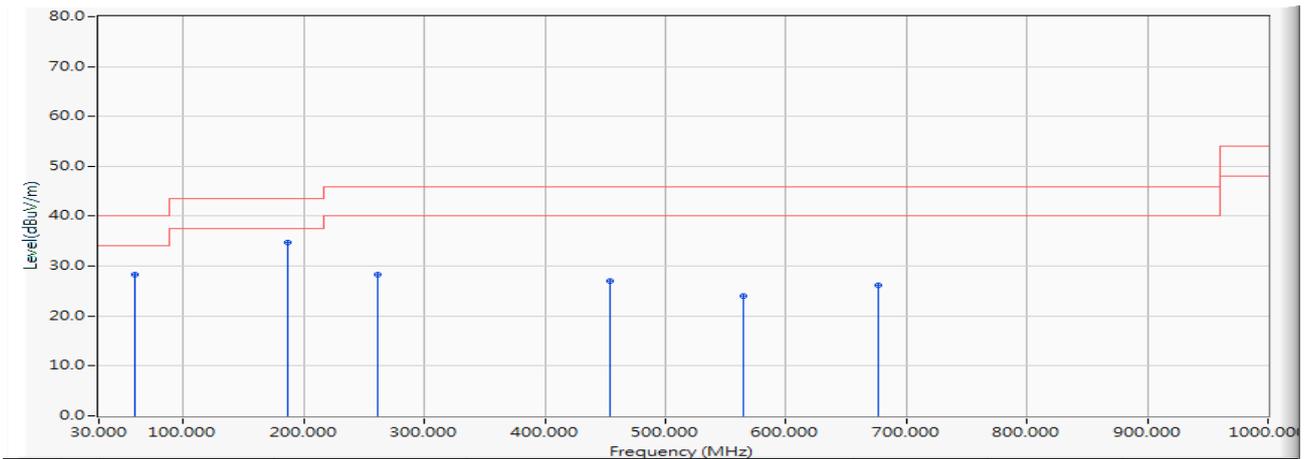


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	67.442	-27.944	53.975	26.031	-13.969	40.000	QUASIPeAK
2		181.902	-24.102	50.999	26.897	-16.603	43.500	QUASIPeAK
3		346.220	-17.678	47.252	29.574	-16.426	46.000	QUASIPeAK
4		492.011	-14.532	42.437	27.905	-18.095	46.000	QUASIPeAK
5		590.854	-13.617	37.483	23.866	-22.134	46.000	QUASIPeAK
6		689.406	-12.245	42.048	29.804	-16.196	46.000	QUASIPeAK

Note:

1. All Reading Levels is Quasi-Peak value.
2. “ \* ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor
4. The Emission under 30MHz were not included is because their levels are too low.
5. The emission form 9KHz to 30MHz Radiated emission were not show in the test report, because Pre-scan lower than the limit line

Site : DEKRA Taiwan CB2-H	Time : 2018/08/04
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB2-H_FCC_EFS_S2_30M-1GHz_1116 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 2: Transmit_CDD_ADP-45BW Y 802.11ac(40M)_2437MHz

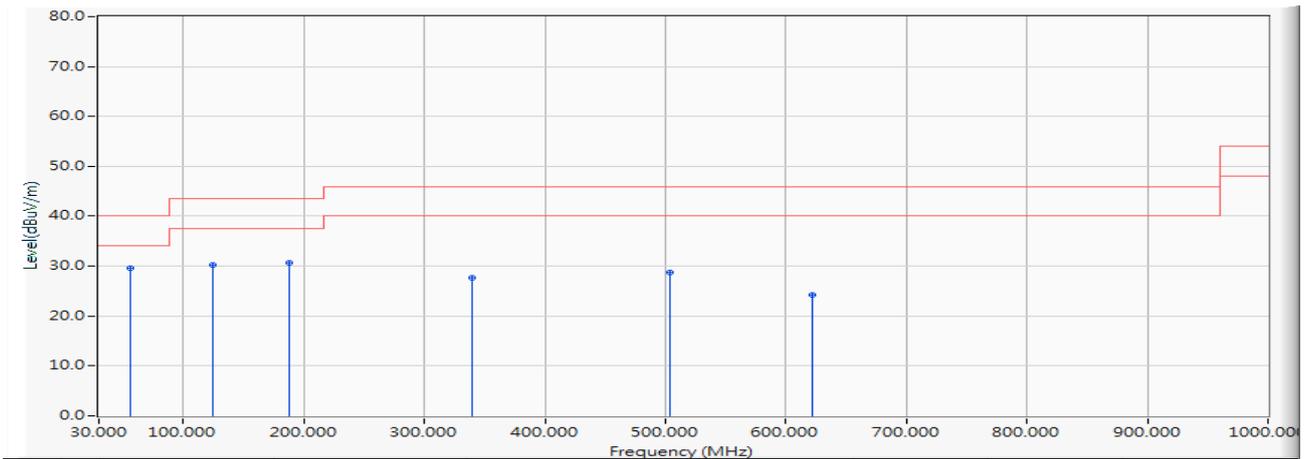


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	59.294	-28.002	56.261	28.259	-11.741	40.000	QUASIPeAK
2	* 186.461	-23.865	58.700	34.836	-8.664	43.500	QUASIPeAK
3	261.539	-20.369	48.600	28.231	-17.769	46.000	QUASIPeAK
4	454.666	-14.922	42.016	27.094	-18.906	46.000	QUASIPeAK
5	564.955	-13.378	37.475	24.096	-21.904	46.000	QUASIPeAK
6	676.893	-11.847	38.109	26.262	-19.738	46.000	QUASIPeAK

Note:

1. All Reading Levels is Quasi-Peak value.
2. “ \* ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor
4. The Emission under 30MHz were not included is because their levels are too low.
5. The emission form 9KHz to 30MHz Radiated emission were not show in the test report, because Pre-scan lower than the limit line

Site : DEKRA Taiwan CB2-H	Time : 2018/08/04
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB2-H_FCC_EFS_S2_30M-1GHz_1116 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 2: Transmit_CDD_ADP-45BW Y 802.11ac(40M)_2437MHz

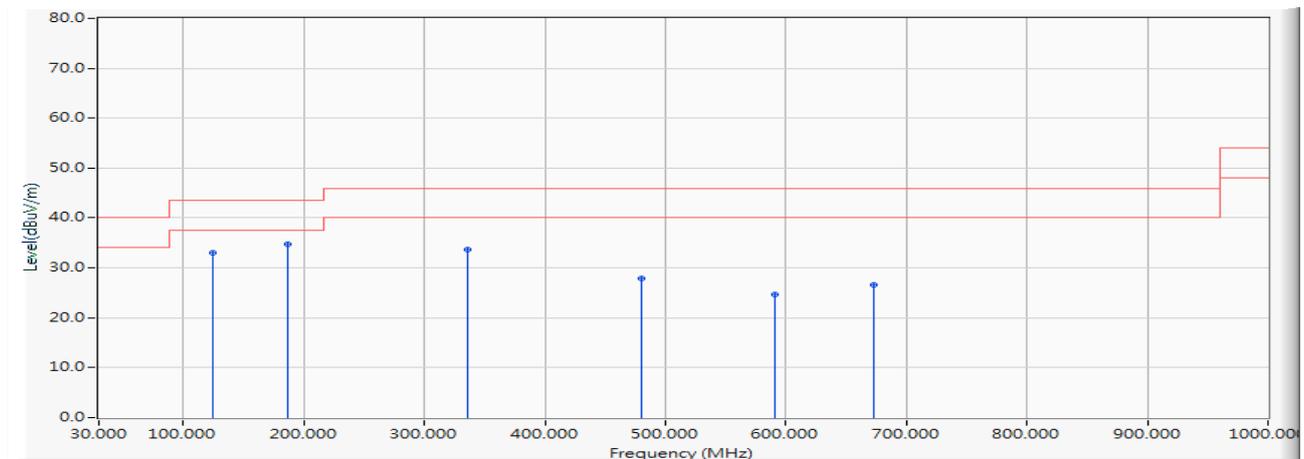


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	55.511	-26.942	56.478	29.537	-10.463	40.000	QUASIPeAK
2		125.060	-21.221	51.522	30.301	-13.199	43.500	QUASIPeAK
3		187.334	-23.819	54.485	30.666	-12.834	43.500	QUASIPeAK
4		340.012	-17.873	45.484	27.611	-18.389	46.000	QUASIPeAK
5		503.942	-14.250	42.997	28.748	-17.252	46.000	QUASIPeAK
6		621.991	-12.363	36.624	24.261	-21.739	46.000	QUASIPeAK

Note:

1. All Reading Levels is Quasi-Peak value.
2. “ \* ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor
4. The Emission under 30MHz were not included is because their levels are too low.
5. The emission form 9KHz to 30MHz Radiated emission were not show in the test report, because Pre-scan lower than the limit line

Site : DEKRA Taiwan CB2-H	Time : 2018/08/04
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB2-H_FCC_EFS_S2_30M-1GHz_1116 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 3: Transmit_CDD_AD2066320 802.11ac(40M)_2437MHz

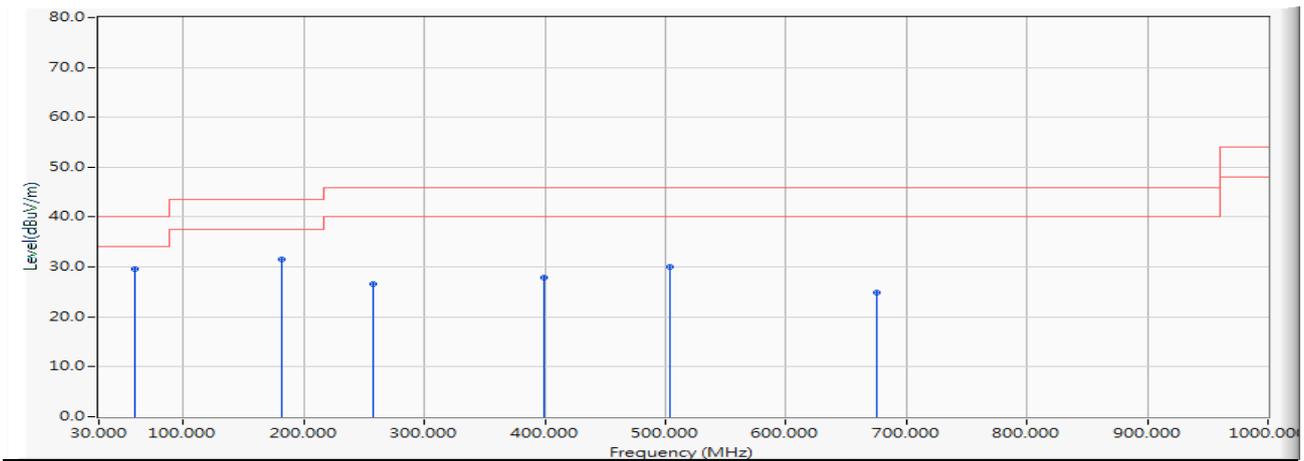


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	125.060	-21.221	54.355	33.134	-10.366	43.500	QUASIPeAK
2	* 187.237	-23.824	58.650	34.826	-8.674	43.500	QUASIPeAK
3	335.356	-18.175	51.948	33.772	-12.228	46.000	QUASIPeAK
4	480.080	-14.885	42.848	27.963	-18.037	46.000	QUASIPeAK
5	590.563	-13.632	38.396	24.765	-21.235	46.000	QUASIPeAK
6	672.334	-11.919	38.496	26.577	-19.423	46.000	QUASIPeAK

Note:

1. All Reading Levels is Quasi-Peak value.
2. “ \* ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor
4. The Emission under 30MHz were not included is because their levels are too low.
5. The emission form 9KHz to 30MHz Radiated emission were not show in the test report, because Pre-scan lower than the limit line

Site : DEKRA Taiwan CB2-H	Time : 2018/08/04
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB2-H_FCC_EFS_S2_30M-1GHz_1116 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 3: Transmit_CDD_AD2066320 802.11ac(40M)_2437MHz

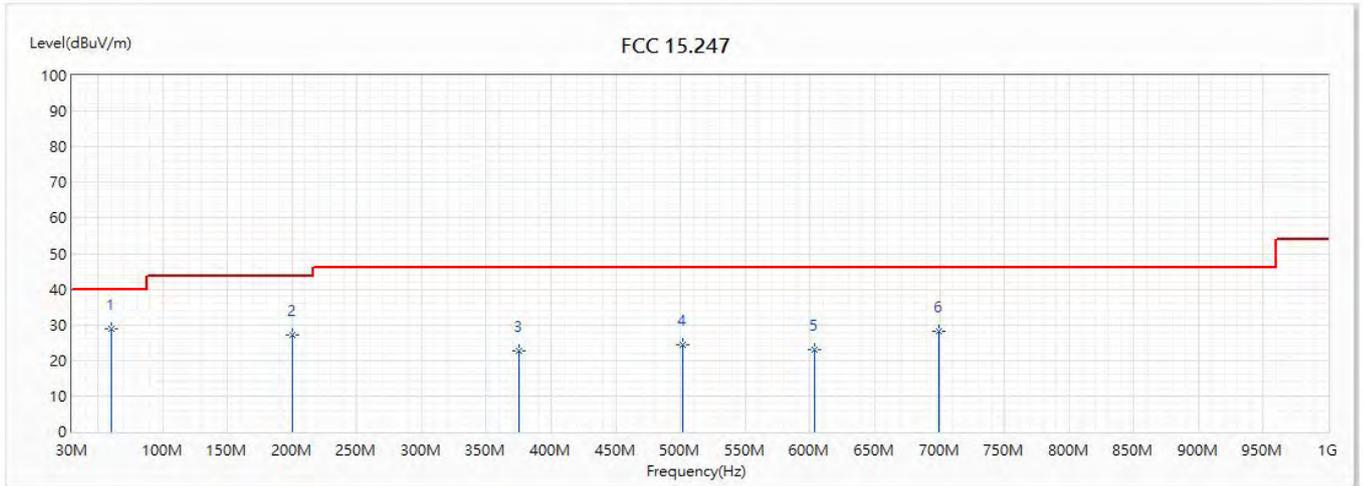


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	* 59.973	-28.176	57.842	29.666	-10.334	40.000	QUASIPeAK
2	181.999	-24.096	55.665	31.568	-11.932	43.500	QUASIPeAK
3	257.077	-20.370	46.892	26.523	-19.477	46.000	QUASIPeAK
4	399.473	-16.038	44.022	27.985	-18.015	46.000	QUASIPeAK
5	504.039	-14.246	44.252	30.007	-15.993	46.000	QUASIPeAK
6	674.953	-11.877	36.691	24.814	-21.186	46.000	QUASIPeAK

Note:

1. All Reading Levels is Quasi-Peak value.
2. “ \* ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor
4. The Emission under 30MHz were not included is because their levels are too low.
5. The emission form 9KHz to 30MHz Radiated emission were not show in the test report, because Pre-scan lower than the limit line

Site :	CB2-H	Engineer :	Elwin
Model No :	Lyra Voice	Test Date :	2018/10/24
Test Voltage :	AC 120V / 60Hz	Polarity :	Horizontal
Test Mode :	Mode 4: Transmit_CDD_AD883J20		
Note :	802.11ac(40M)_2437MHz		

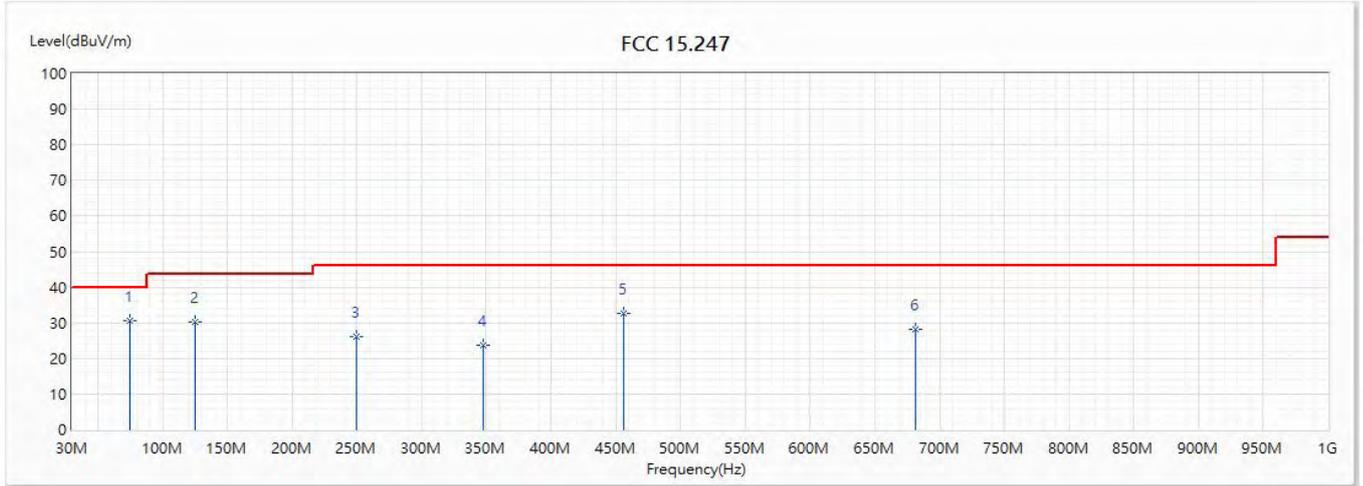


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	60.846	28.77	40.00	-11.23	56.93	-28.16	QP
2	200.429	27.15	43.50	-16.35	50.58	-23.43	QP
3	374.835	22.56	46.00	-23.44	39.29	-16.73	QP
4	501.42	24.51	46.00	-21.49	38.95	-14.44	QP
5	603.173	23.03	46.00	-22.97	36.26	-13.23	QP
6	699.882	28.02	46.00	-17.98	40.38	-12.36	QP

Note:

1. All Reading Levels is Quasi-Peak value.
2. “ \* ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor
4. The Emission under 30MHz were not included is because their levels are too low.
5. The emission form 9KHz to 30MHz Radiated emission were not show in the test report, because Pre-scan lower than the limit line

Site :	CB2-H	Engineer :	Elwin
Model No :	Lyra Voice	Test Date :	2018/10/25
Test Voltage :	AC 120V / 60Hz	Polarity :	Vertical
Test Mode :	Mode 4: Transmit_CDD_AD883J20		
Note :	802.11ac(40M)_2437MHz		



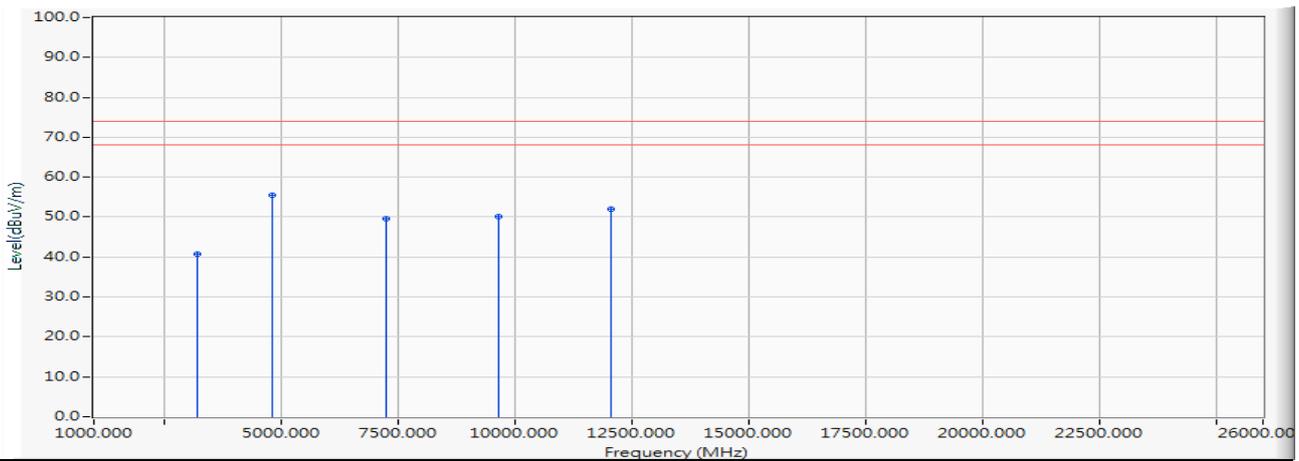
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	74.62	30.50	40.00	-9.50	58.25	-27.75	QP
2	125.06	30.32	43.50	-13.18	51.96	-21.64	QP
3	249.996	26.23	46.00	-19.77	46.64	-20.41	QP
4	347.869	23.70	46.00	-22.30	41.28	-17.58	QP
5	456.024	32.51	46.00	-13.49	47.60	-15.09	QP
6	681.452	28.16	46.00	-17.84	40.67	-12.51	QP

Note:

1. All Reading Levels is Quasi-Peak value.
2. “ \* ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor
4. The Emission under 30MHz were not included is because their levels are too low.
5. The emission form 9KHz to 30MHz Radiated emission were not show in the test report, because Pre-scan lower than the limit line

**Above 1GHz Spurious**

Site : DEKRA Taiwan CB2-H	Time : 2018/07/06
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_ADP-45BW B 802.11b_2412MHz

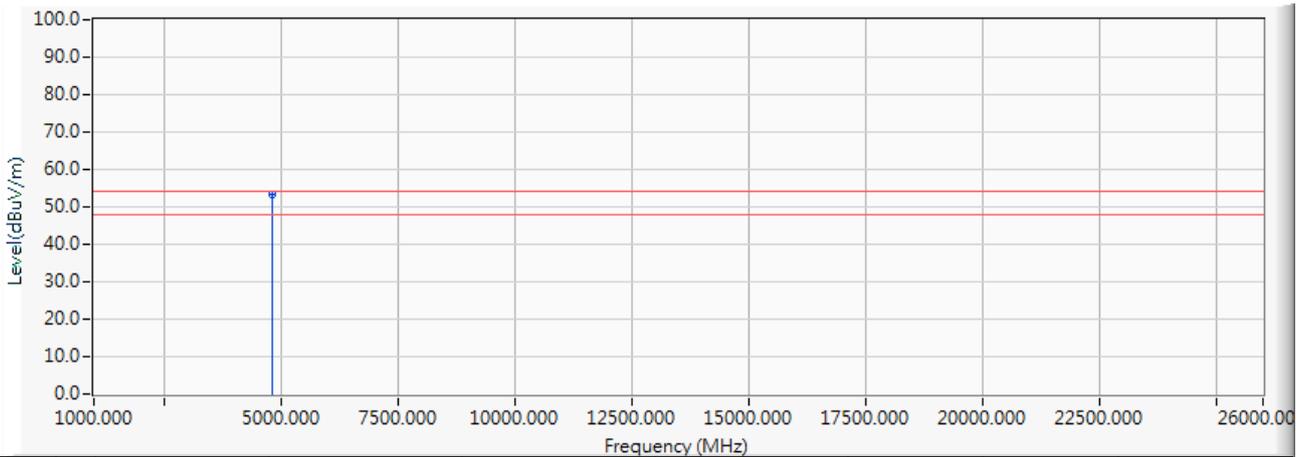


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	3216.523	-6.771	47.620	40.849	-33.151	74.000	PEAK
2	* 4824.362	-0.219	55.720	55.501	-18.499	74.000	PEAK
3	7236.685	7.125	42.550	49.676	-24.324	74.000	PEAK
4	9648.639	12.585	37.620	50.205	-23.795	74.000	PEAK
5	12061.339	15.334	36.560	51.894	-22.106	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/06
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_ADP-45BW B 802.11b_2412MHz

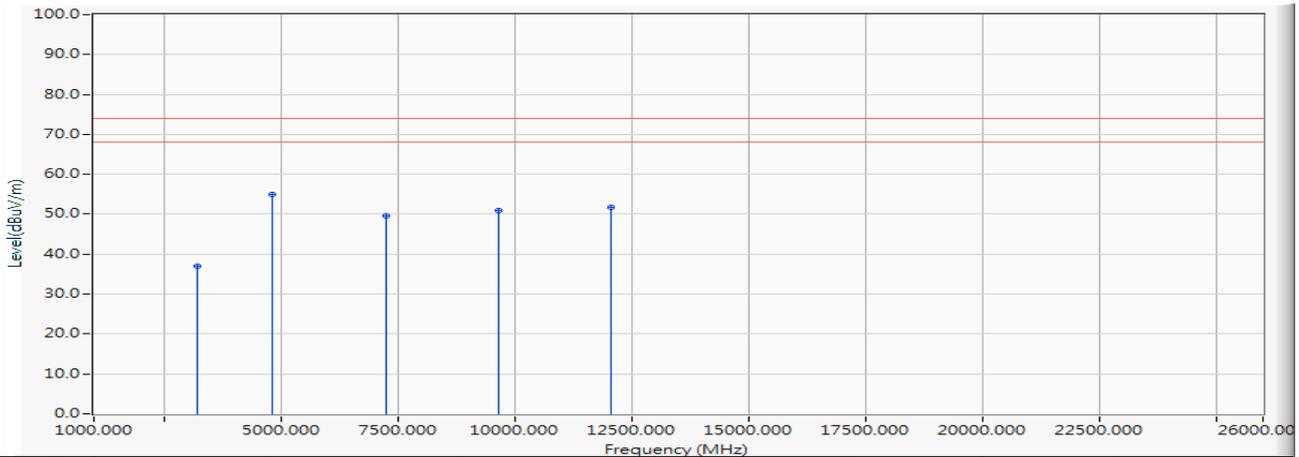


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4824.362	-0.219	53.577	53.358	-0.642	54.000	AVERAGE

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ \* ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/06
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_ADP-45BW B 802.11b_2412MHz

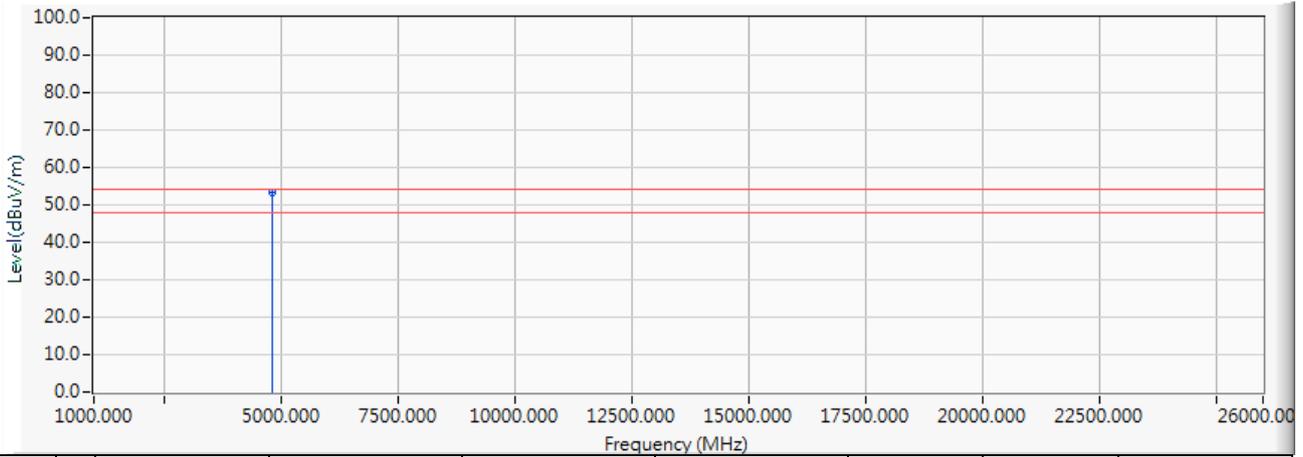


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	3216.539	-6.771	43.670	36.899	-37.101	74.000	PEAK
2	* 4824.638	-0.220	55.270	55.051	-18.949	74.000	PEAK
3	7236.638	7.126	42.420	49.546	-24.454	74.000	PEAK
4	9648.869	12.584	38.220	50.805	-23.195	74.000	PEAK
5	12061.067	15.335	36.490	51.825	-22.175	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ \* ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/06
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_ADP-45BW B 802.11b_2412MHz

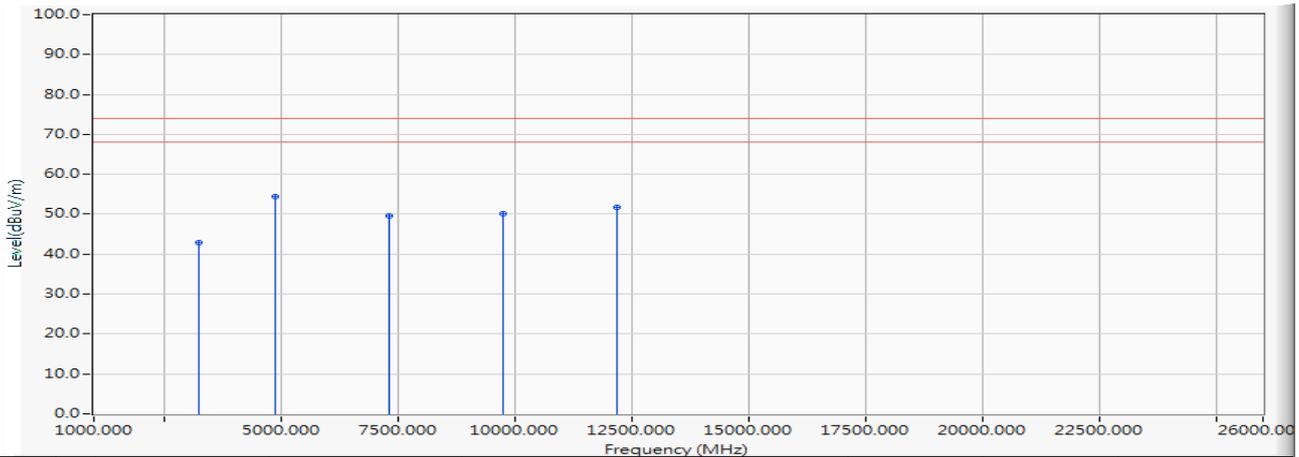


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4824.638	-0.220	53.378	53.159	-0.841	54.000	AVERAGE

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ \* ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/06
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_ADP-45BW B 802.11b_2437MHz

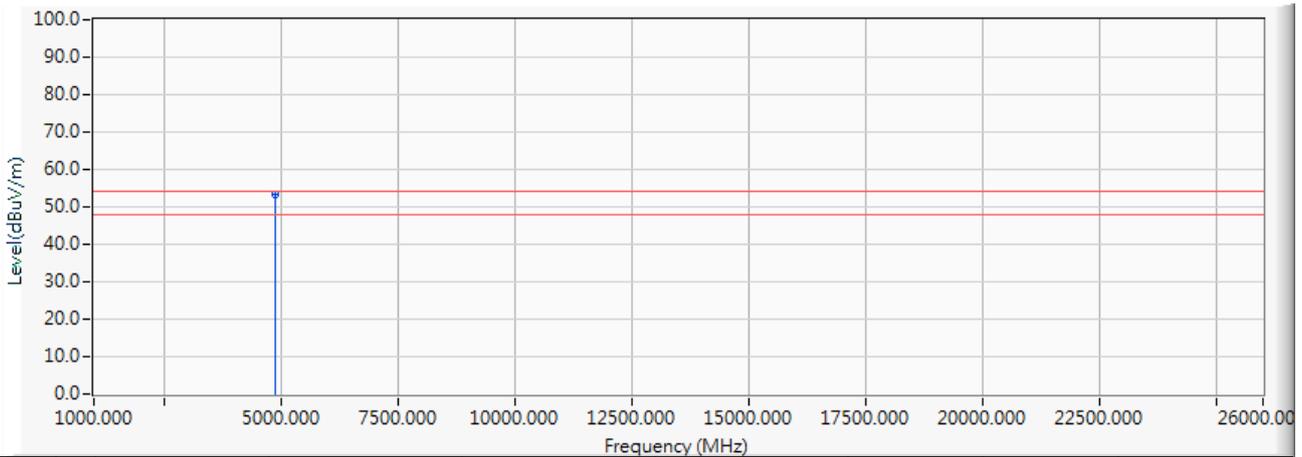


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	3249.754	-6.715	49.520	42.805	-31.195	74.000	PEAK
2	* 4874.253	-0.139	54.640	54.501	-19.499	74.000	PEAK
3	7311.538	7.406	42.210	49.616	-24.384	74.000	PEAK
4	9748.639	12.853	37.210	50.063	-23.937	74.000	PEAK
5	12185.116	14.904	36.880	51.783	-22.217	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/06
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_ADP-45BW B 802.11b_2437MHz

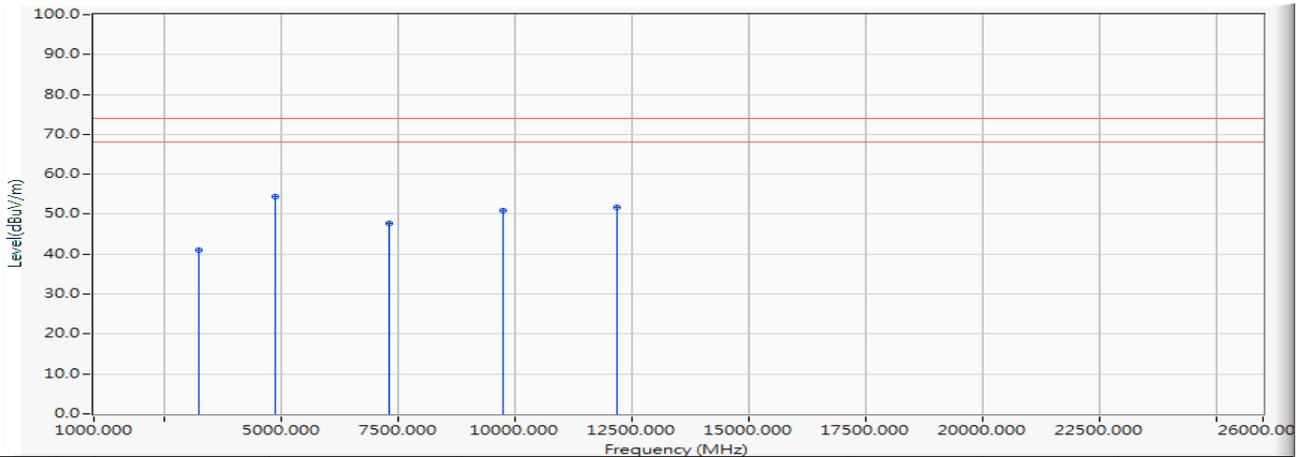


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4874.253	-0.139	53.370	53.231	-0.769	54.000	AVERAGE

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ \* ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/06
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_ADP-45BW B 802.11b_2437MHz

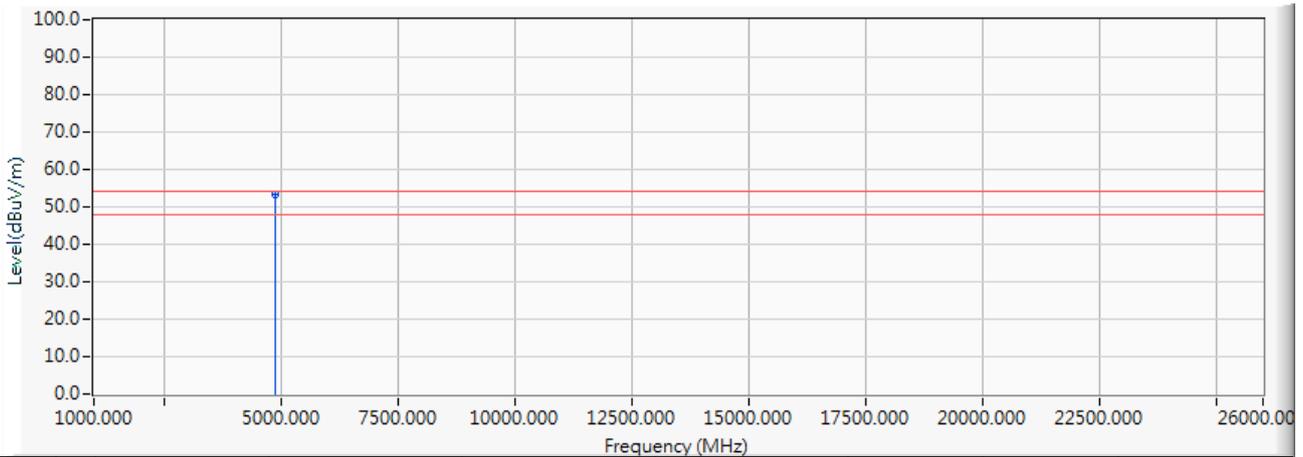


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	3249.774	-6.715	47.650	40.935	-33.065	74.000	PEAK
2	* 4874.398	-0.138	54.530	54.392	-19.608	74.000	PEAK
3	7311.025	7.405	40.290	47.694	-26.306	74.000	PEAK
4	9748.635	12.853	38.060	50.913	-23.087	74.000	PEAK
5	12185.875	14.902	36.960	51.861	-22.139	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/06
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_ADP-45BW B 802.11b_2437MHz

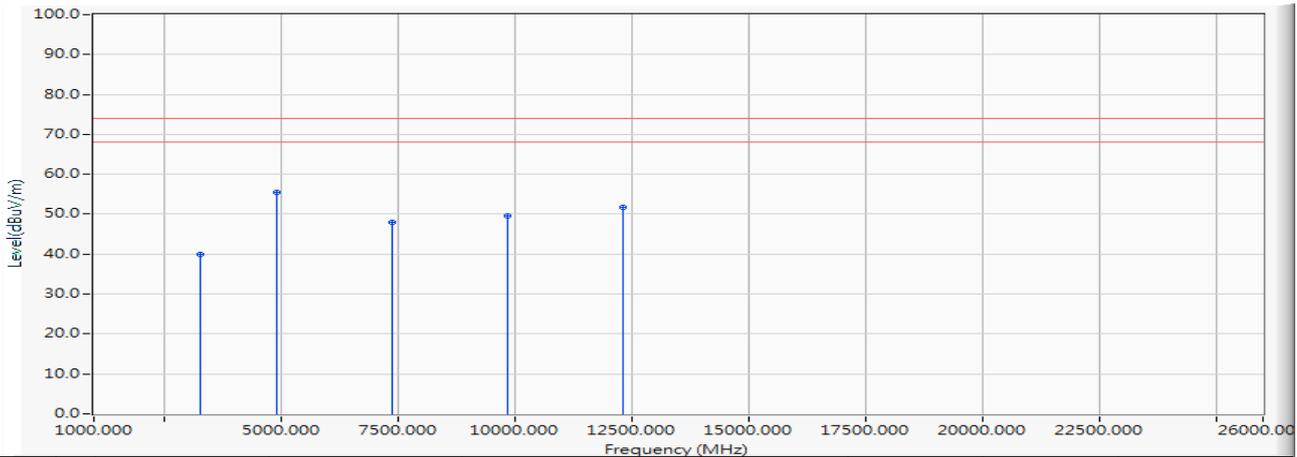


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4874.398	-0.138	53.269	53.131	-0.869	54.000	AVERAGE

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ \* ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/06
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_ADP-45BW B 802.11b_2462MHz

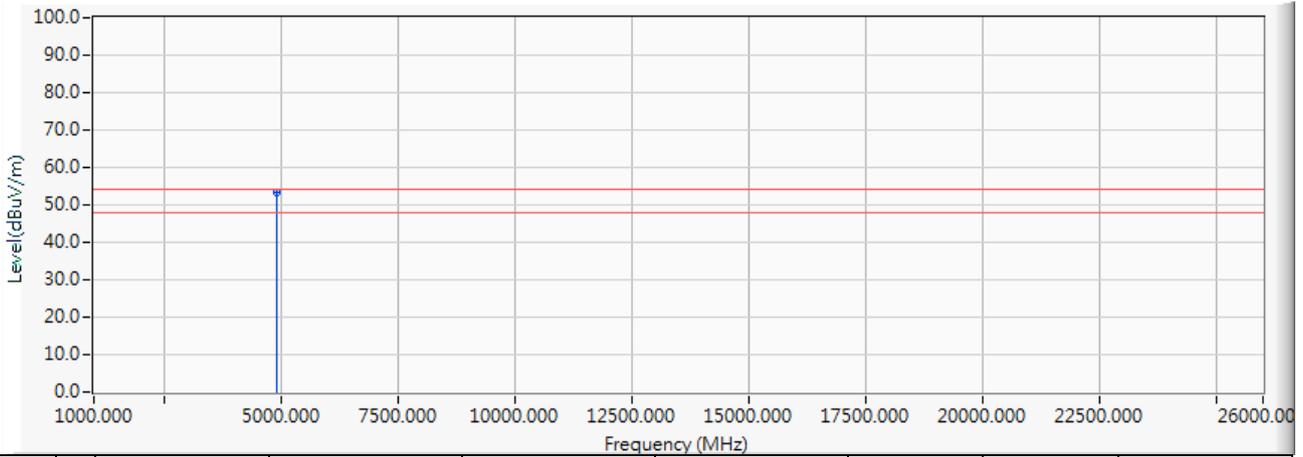


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	3282.152	-6.652	46.660	40.009	-33.991	74.000	PEAK
2	* 4924.634	-0.075	55.470	55.395	-18.605	74.000	PEAK
3	7386.638	7.676	40.430	48.106	-25.894	74.000	PEAK
4	9848.803	12.990	36.560	49.551	-24.449	74.000	PEAK
5	12310.997	15.104	36.570	51.673	-22.327	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/06
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_ADP-45BW B 802.11b_2462MHz

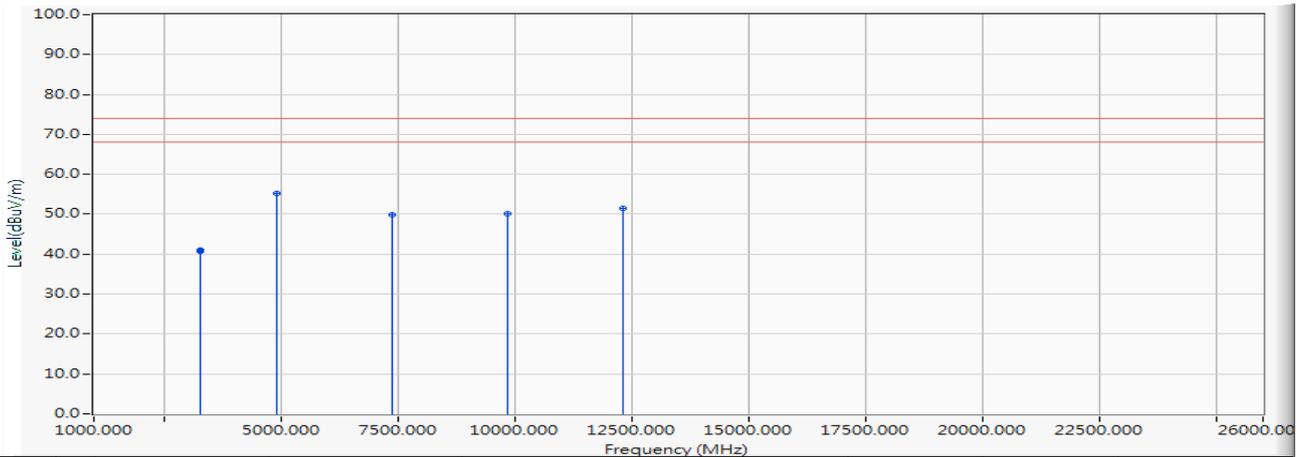


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4924.634	-0.075	53.290	53.215	-0.785	54.000	AVERAGE

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ \* ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/06
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_ADP-45BW B 802.11b_2462MHz

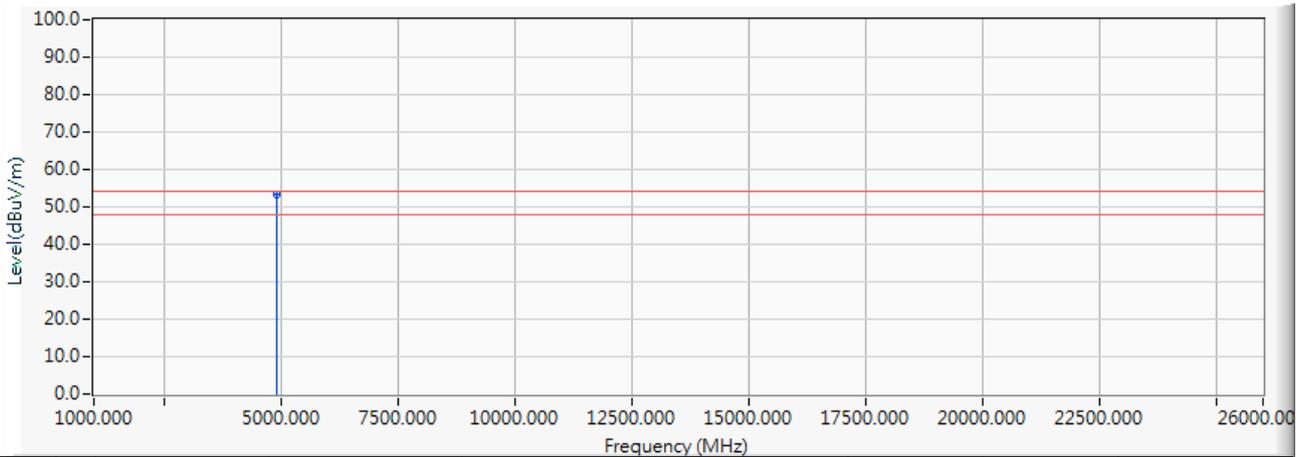


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	3282.361	-6.651	47.520	40.869	-33.131	74.000	PEAK
2	3283.075	-6.649	47.680	41.031	-32.969	74.000	PEAK
3	* 4924.103	-0.076	55.280	55.205	-18.795	74.000	PEAK
4	7386.652	7.676	42.280	49.956	-24.044	74.000	PEAK
5	9848.653	12.990	37.240	50.230	-23.770	74.000	PEAK
6	12310.008	15.096	36.420	51.516	-22.484	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ \* ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/06
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_ADP-45BW B 802.11b_2462MHz

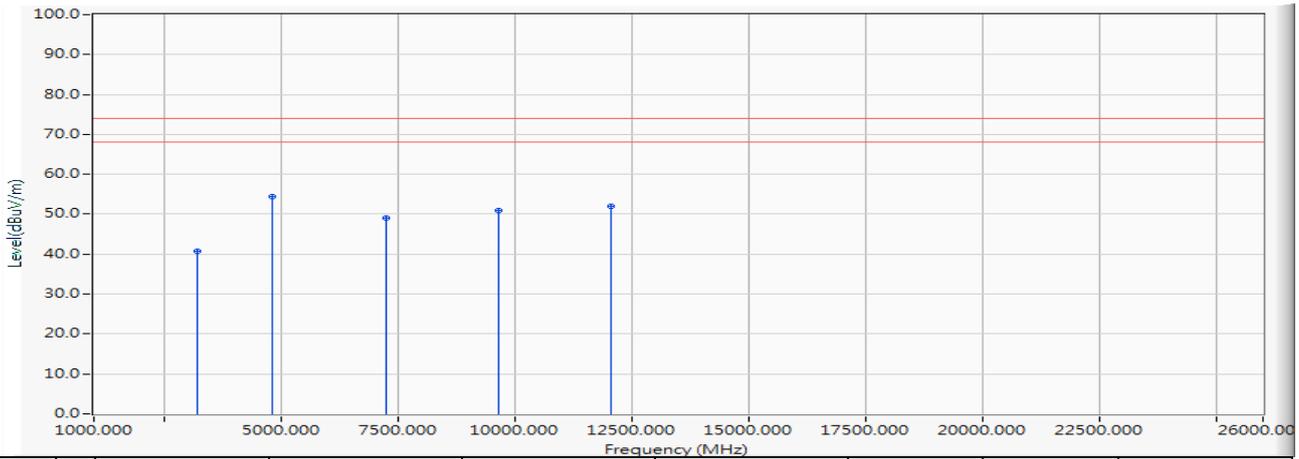


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4924.103	-0.076	53.210	53.135	-0.865	54.000	AVERAGE

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ \* ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/07
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_ADP-45BW B 802.11g_2412MHz

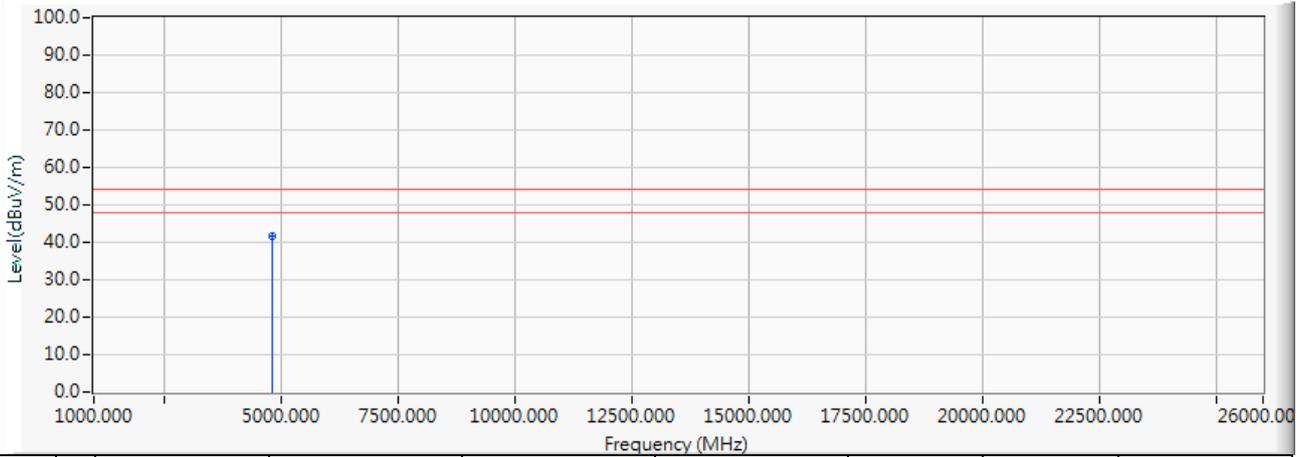


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	3215.968	-6.773	47.630	40.858	-33.142	74.000	PEAK
2	* 4824.235	-0.219	54.710	54.491	-19.509	74.000	PEAK
3	7236.902	7.127	41.850	48.976	-25.024	74.000	PEAK
4	9648.067	12.587	38.240	50.827	-23.173	74.000	PEAK
5	12060.152	15.338	36.570	51.908	-22.092	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
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Site : DEKRA Taiwan CB2-H	Time : 2018/07/07
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_ADP-45BW B 802.11g_2412MHz

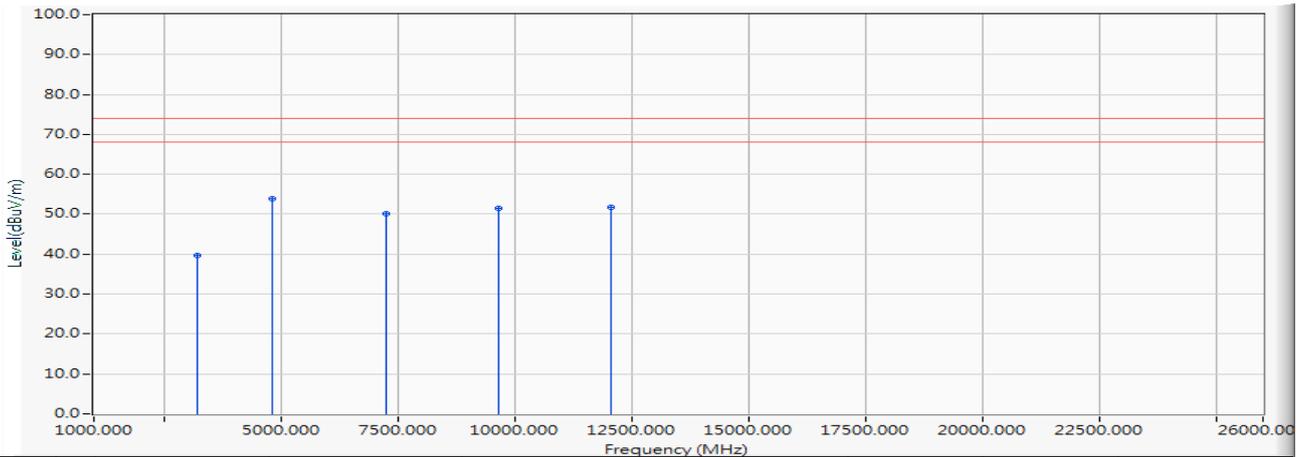


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4824.235	-0.219	41.850	41.631	-12.369	54.000	AVERAGE

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ \* ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/07
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_ADP-45BW B 802.11g_2412MHz

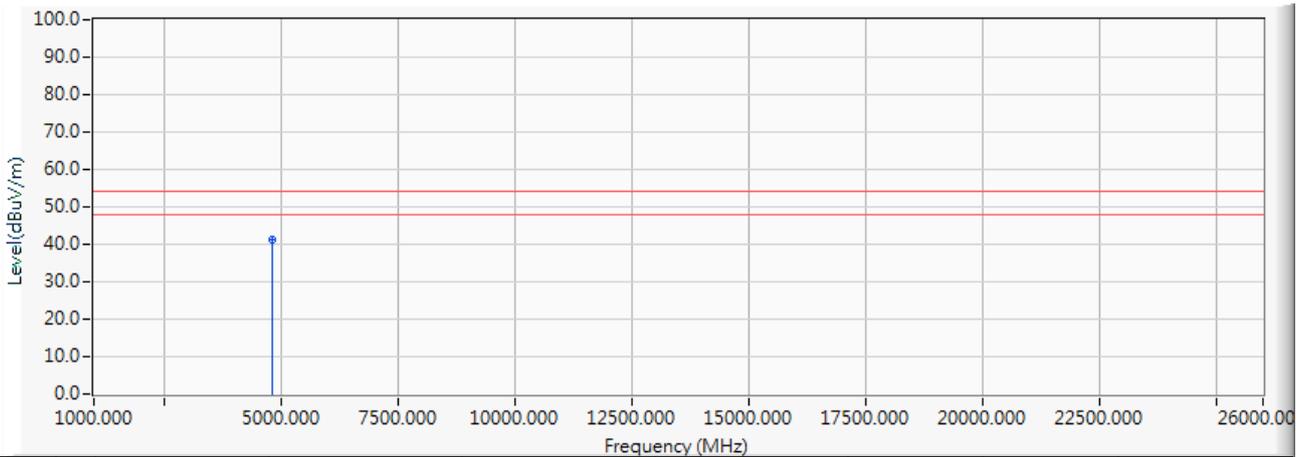


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	3216.661	-6.771	46.540	39.769	-34.231	74.000	PEAK
2	* 4824.353	-0.219	54.080	53.861	-20.139	74.000	PEAK
3	7236.638	7.126	42.980	50.106	-23.894	74.000	PEAK
4	9648.968	12.585	39.010	51.594	-22.406	74.000	PEAK
5	12060.417	15.336	36.510	51.847	-22.153	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/07
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_ADP-45BW B 802.11g_2412MHz

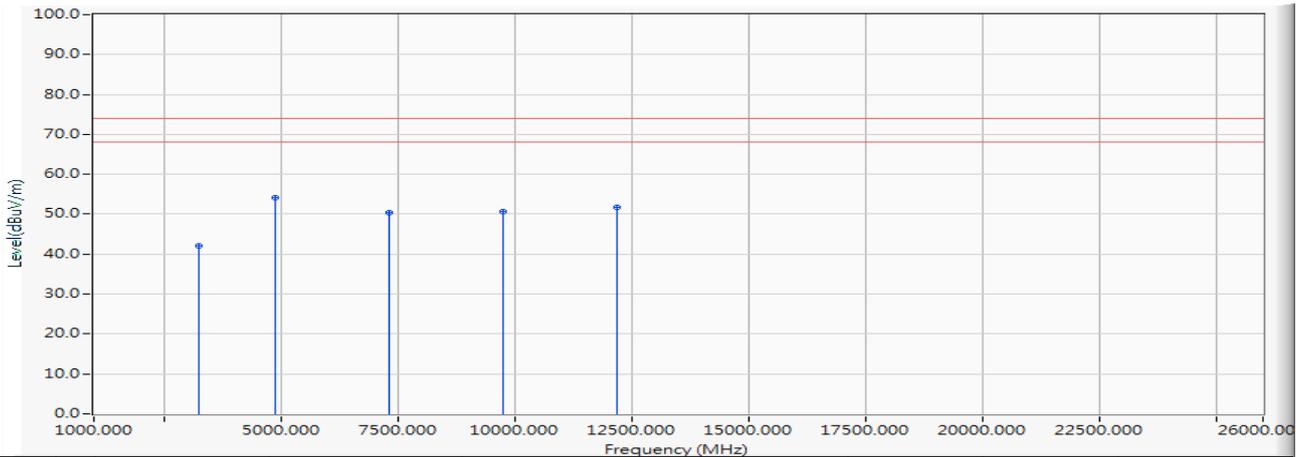


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4824.353	-0.219	41.340	41.121	-12.879	54.000	AVERAGE

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ \* ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/07
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_ADP-45BW B 802.11g_2437MHz

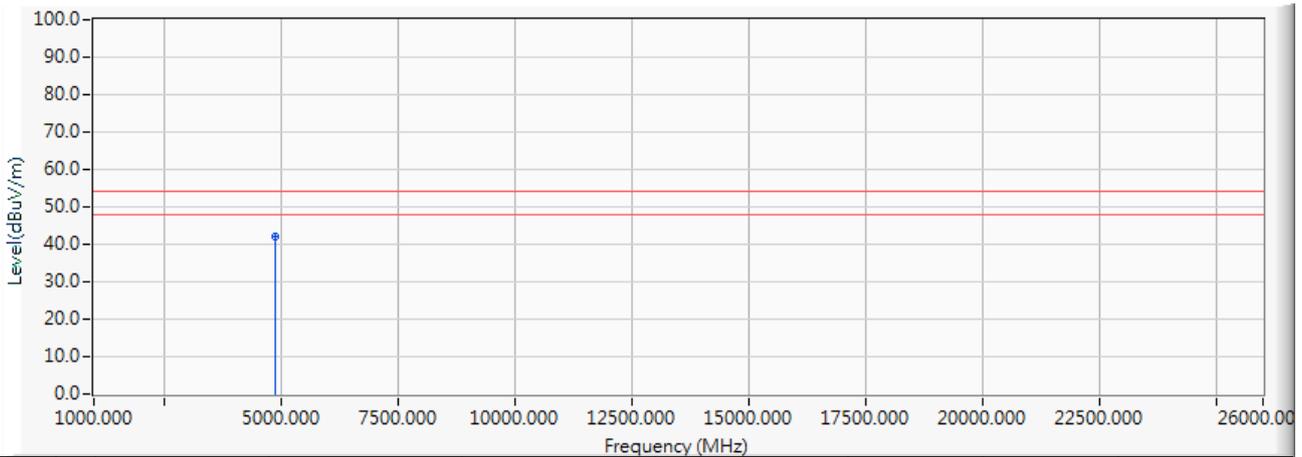


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	3250.517	-6.713	48.920	42.207	-31.793	74.000	PEAK
2	* 4874.639	-0.137	54.310	54.173	-19.827	74.000	PEAK
3	7311.526	7.406	43.080	50.486	-23.514	74.000	PEAK
4	9748.693	12.853	37.790	50.643	-23.357	74.000	PEAK
5	12185.525	14.902	36.850	51.752	-22.248	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/07
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_ADP-45BW B 802.11g_2437MHz

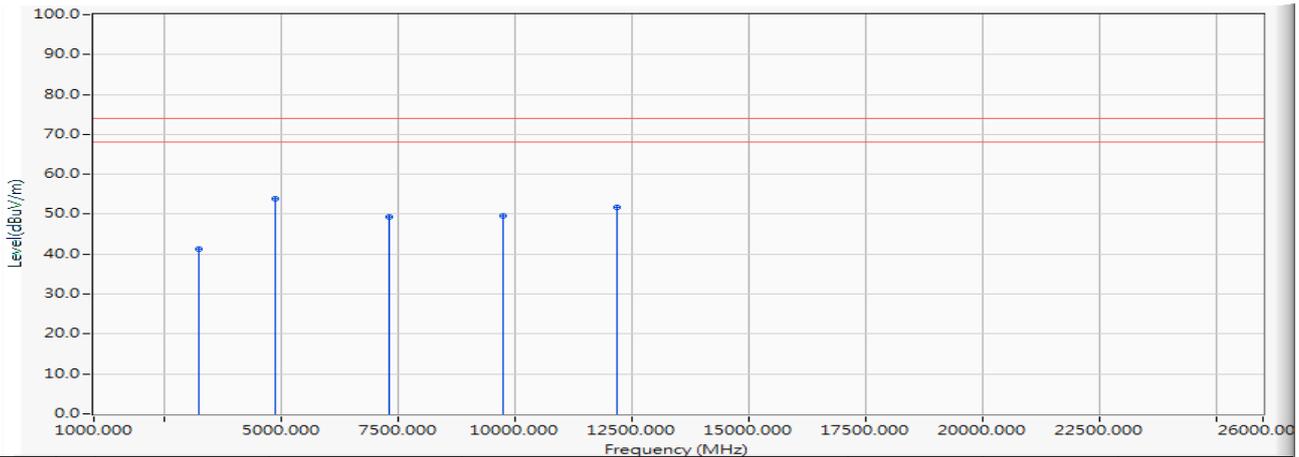


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4874.041	-0.140	42.240	42.100	-11.900	54.000	AVERAGE

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ \* ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/07
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_ADP-45BW B 802.11g_2437MHz

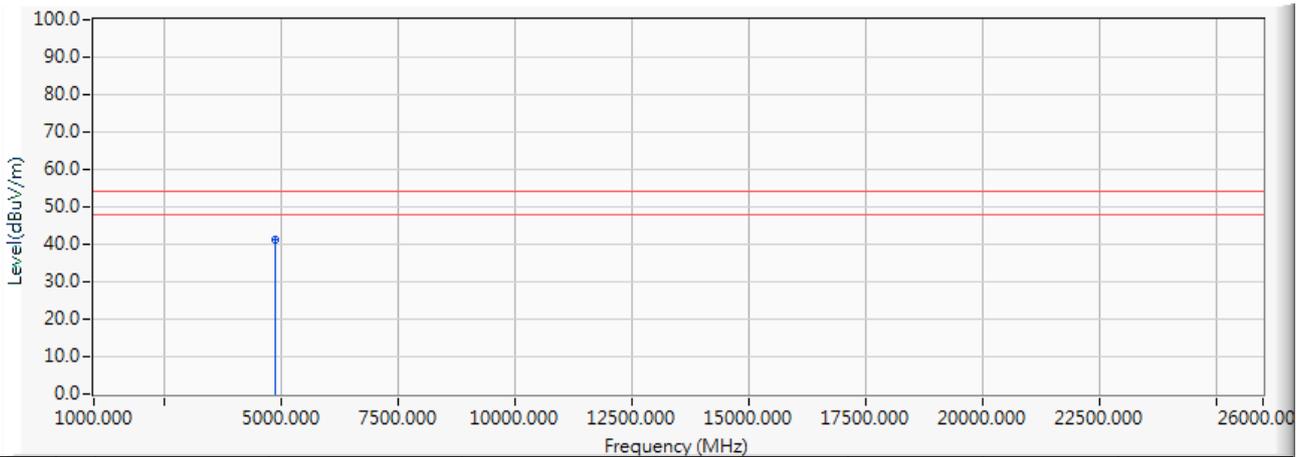


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	3249.587	-6.715	48.040	41.325	-32.675	74.000	PEAK
2	* 4874.527	-0.138	53.990	53.852	-20.148	74.000	PEAK
3	7311.851	7.408	41.860	49.267	-24.733	74.000	PEAK
4	9748.524	12.853	36.870	49.723	-24.277	74.000	PEAK
5	12186.964	14.897	36.870	51.767	-22.233	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/07
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_ADP-45BW B 802.11g_2437MHz

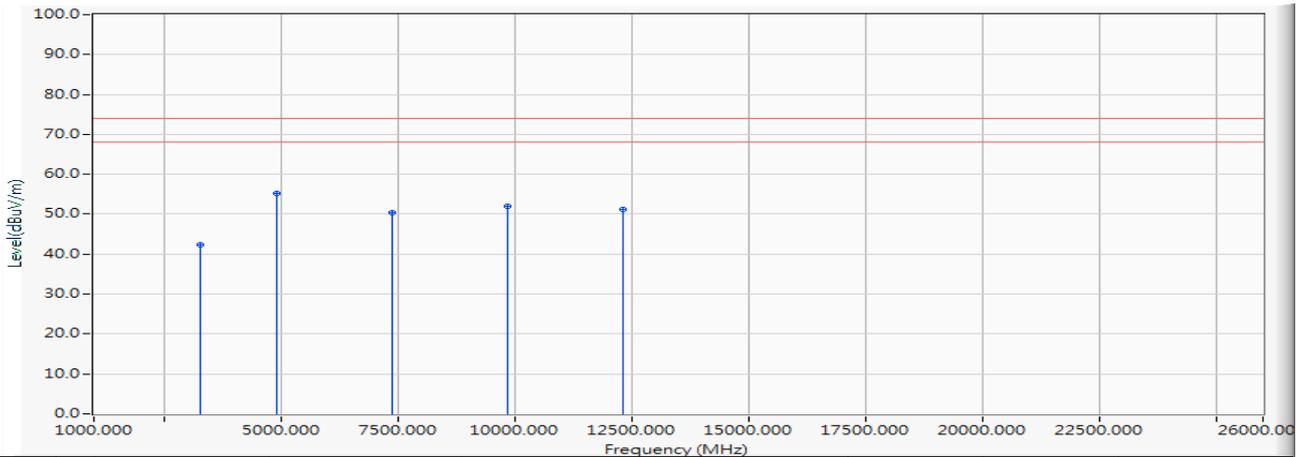


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4874.527	-0.138	41.180	41.042	-12.958	54.000	AVERAGE

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ \* ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/07
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_ADP-45BW B 802.11g_2462MHz

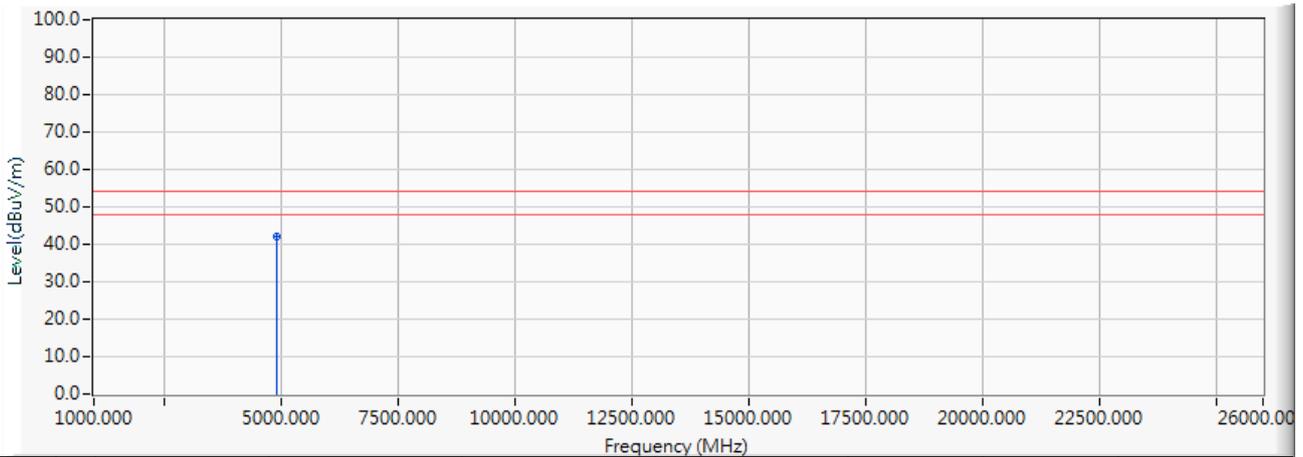


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	3283.057	-6.649	49.050	42.401	-31.599	74.000	PEAK
2	* 4924.527	-0.075	55.220	55.145	-18.855	74.000	PEAK
3	7386.652	7.676	42.670	50.346	-23.654	74.000	PEAK
4	9848.691	12.990	38.930	51.920	-22.080	74.000	PEAK
5	12310.017	15.097	36.130	51.226	-22.774	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/07
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_ADP-45BW B 802.11g_2462MHz

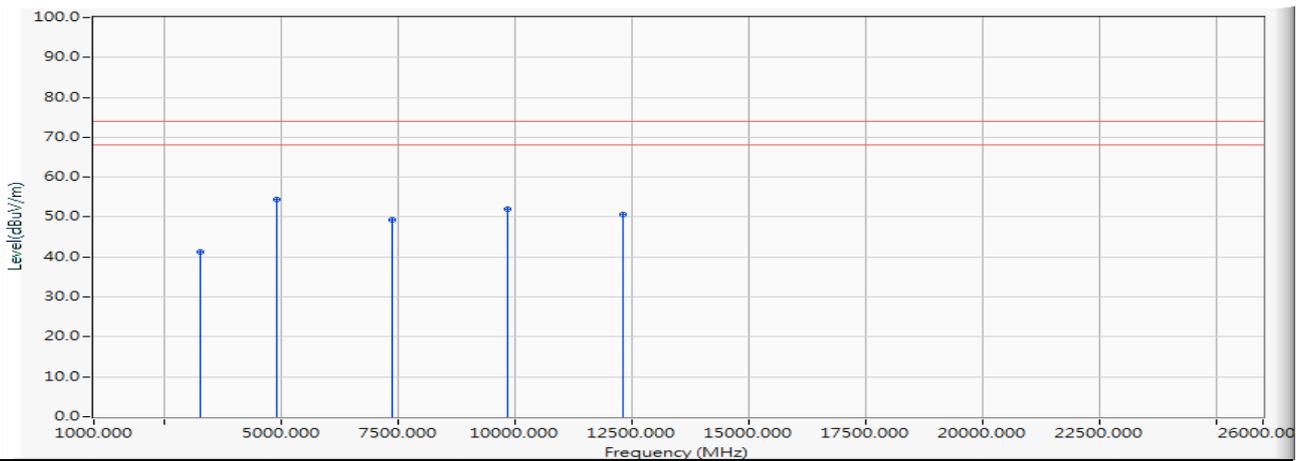


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4924.527	-0.075	42.020	41.945	-12.055	54.000	AVERAGE

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ \* ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/07
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_ADP-45BW B 802.11g_2462MHz

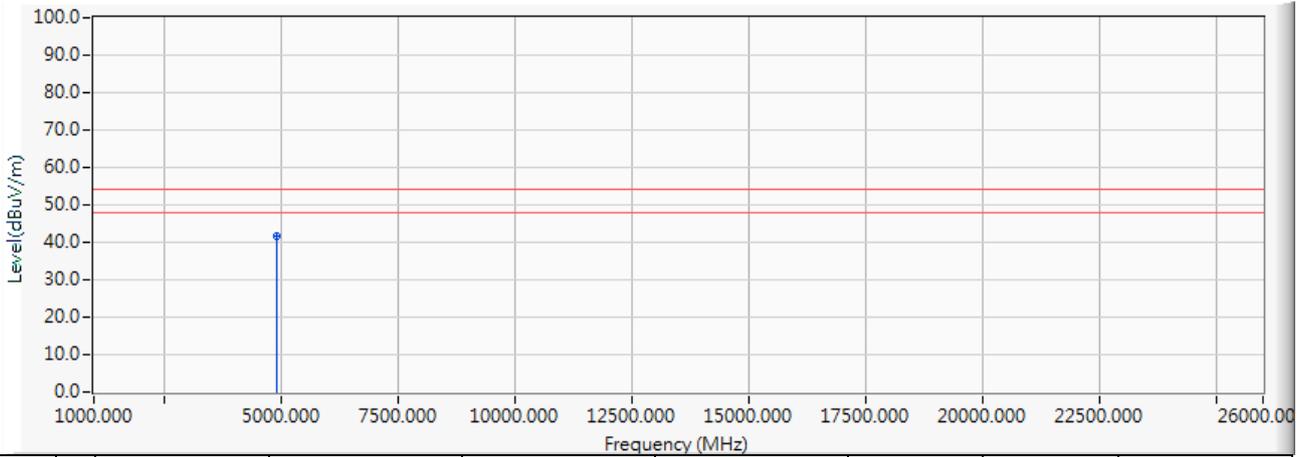


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	3283.105	-6.649	48.070	41.421	-32.579	74.000	PEAK
2	* 4924.685	-0.075	54.620	54.545	-19.455	74.000	PEAK
3	7386.635	7.676	41.670	49.346	-24.654	74.000	PEAK
4	9848.527	12.990	38.910	51.900	-22.100	74.000	PEAK
5	12310.041	15.097	35.660	50.756	-23.244	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ \* ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/07
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_ADP-45BW B 802.11g_2462MHz

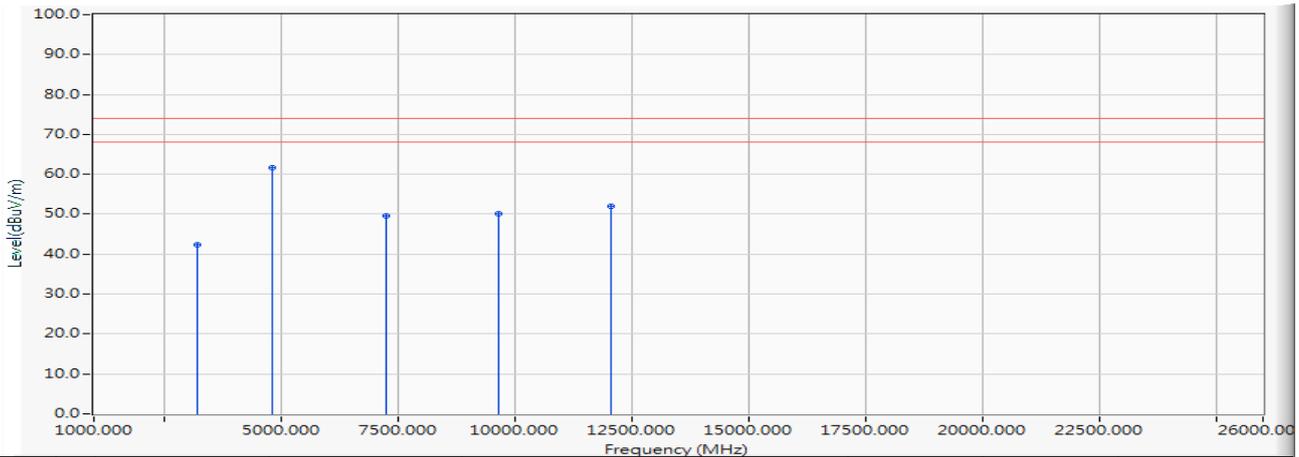


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4924.685	-0.075	41.760	41.685	-12.315	54.000	AVERAGE

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ \* ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/07
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_ADP-45BW B 802.11ac(20M)_2412MHz

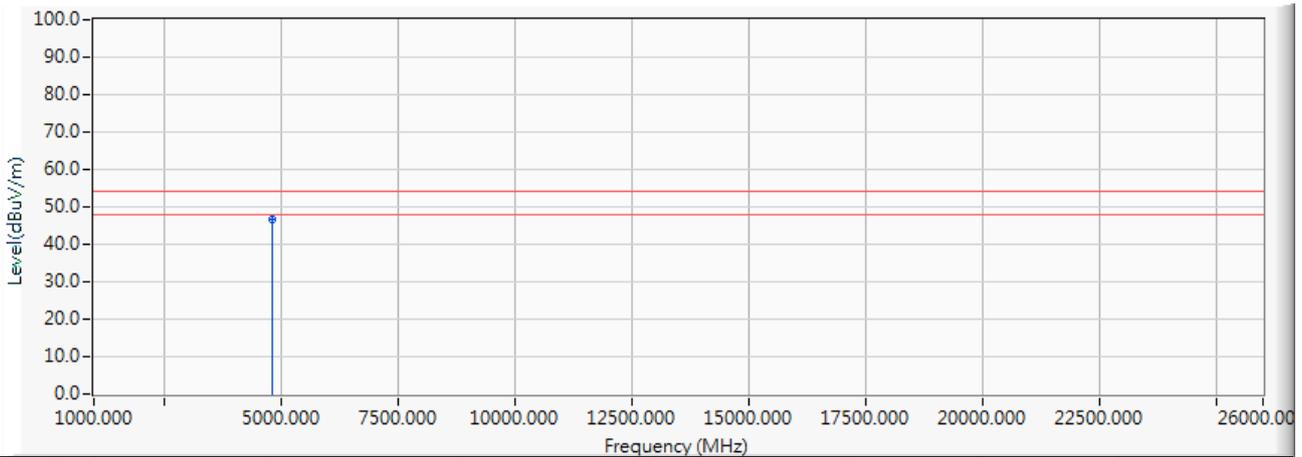


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	3217.558	-6.769	49.130	42.361	-31.639	74.000	PEAK
2	* 4824.528	-0.220	61.790	61.571	-12.429	74.000	PEAK
3	7236.638	7.126	42.350	49.476	-24.524	74.000	PEAK
4	9648.969	12.585	37.440	50.024	-23.976	74.000	PEAK
5	12061.638	15.333	36.560	51.893	-22.107	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/07
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_ADP-45BW B 802.11ac(20M)_2412MHz

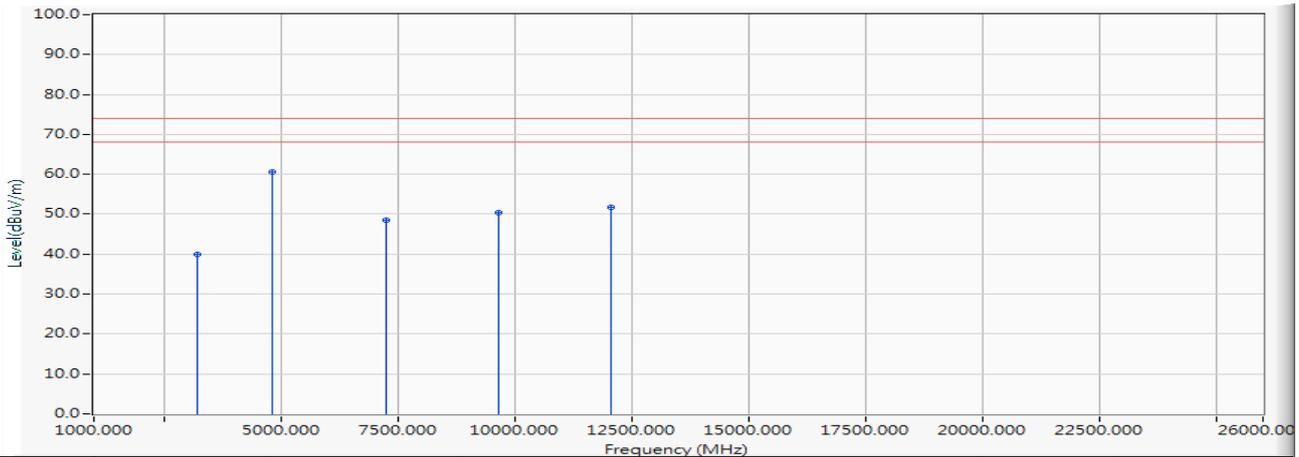


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4824.528	-0.220	46.760	46.541	-7.459	54.000	AVERAGE

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ \* ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/07
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_ADP-45BW B 802.11ac(20M)_2412MHz

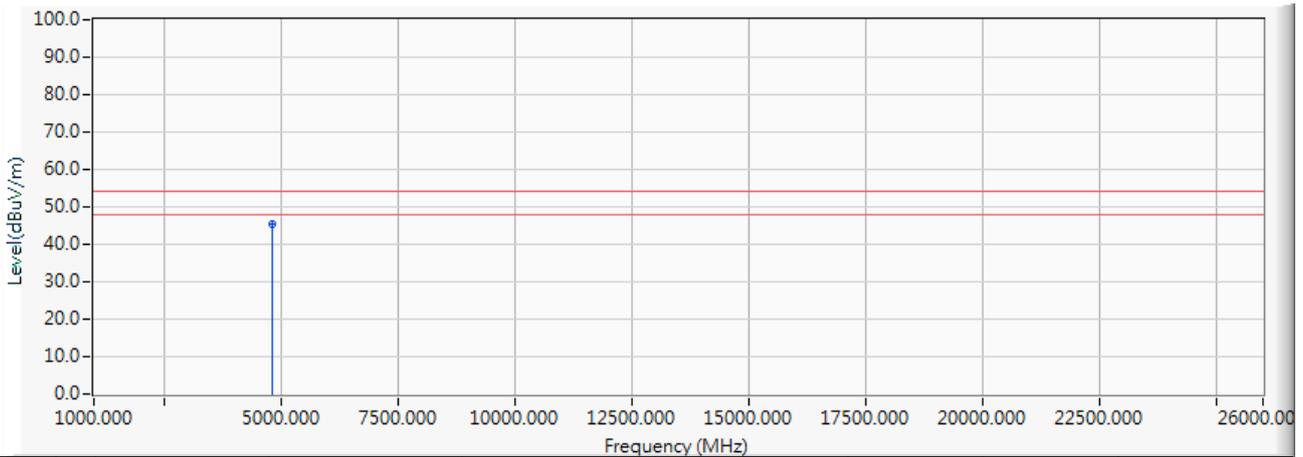


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	3218.049	-6.768	46.780	40.011	-33.989	74.000	PEAK
2	* 4824.967	-0.220	60.820	60.600	-13.400	74.000	PEAK
3	7236.528	7.126	41.470	48.596	-25.404	74.000	PEAK
4	9648.689	12.585	37.790	50.375	-23.625	74.000	PEAK
5	12061.368	15.334	36.470	51.804	-22.196	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/07
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_ADP-45BW B 802.11ac(20M)_2412MHz

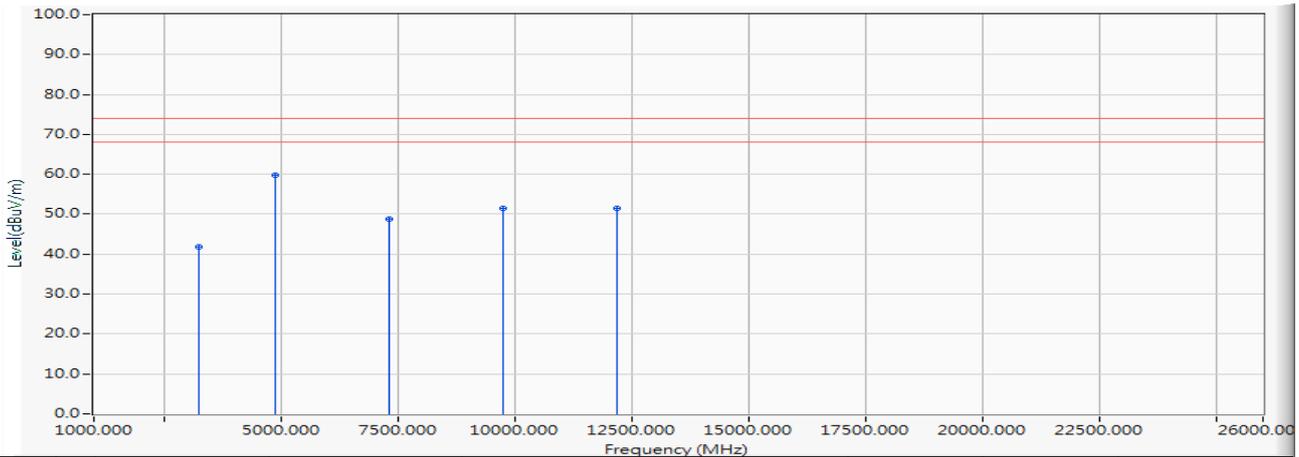


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4824.967	-0.220	45.670	45.450	-8.550	54.000	AVERAGE

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ \* ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
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Site : DEKRA Taiwan CB2-H	Time : 2018/07/07
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_ADP-45BW B 802.11ac(20M)_2437MHz

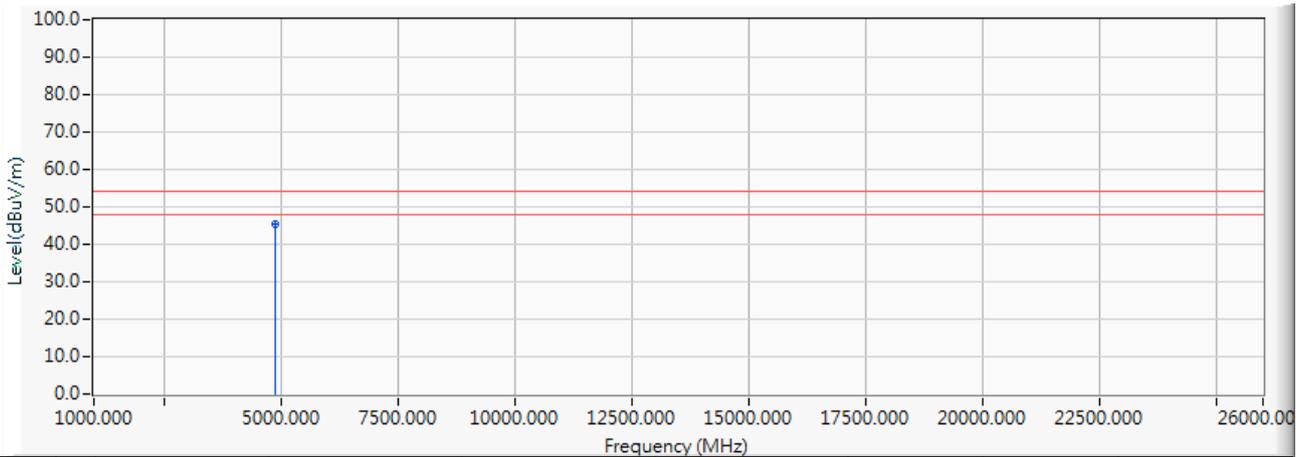


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	3249.857	-6.715	48.650	41.935	-32.065	74.000	PEAK
2	* 4874.521	-0.138	59.840	59.702	-14.298	74.000	PEAK
3	7311.635	7.406	41.360	48.766	-25.234	74.000	PEAK
4	9748.528	12.853	38.570	51.423	-22.577	74.000	PEAK
5	12185.414	14.902	36.660	51.562	-22.438	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
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Site : DEKRA Taiwan CB2-H	Time : 2018/07/07
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_ADP-45BW B 802.11ac(20M)_2437MHz

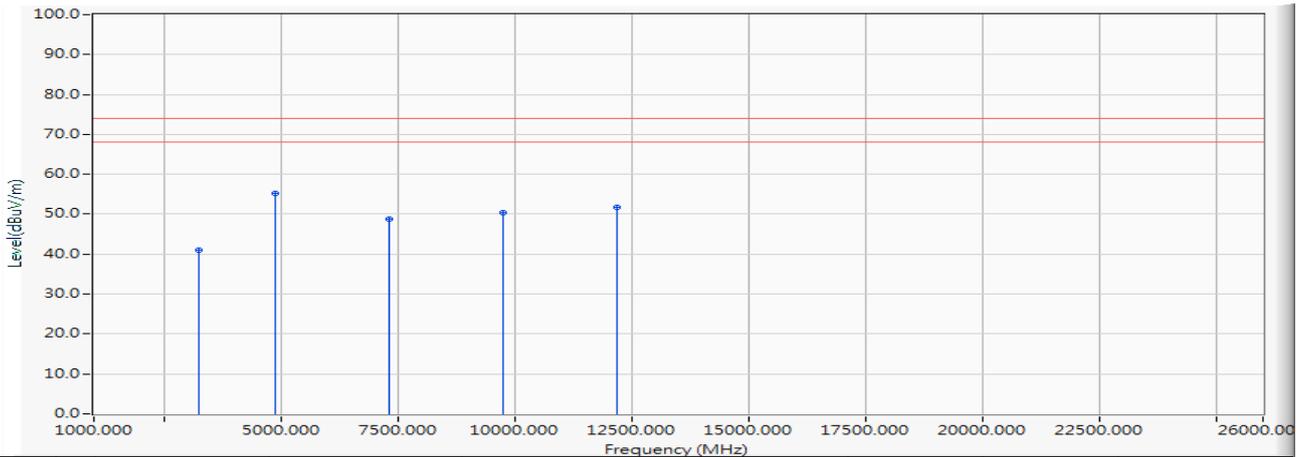


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4874.521	-0.138	45.370	45.232	-8.768	54.000	AVERAGE

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ \* ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
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Site : DEKRA Taiwan CB2-H	Time : 2018/07/07
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_ADP-45BW B 802.11ac(20M)_2437MHz

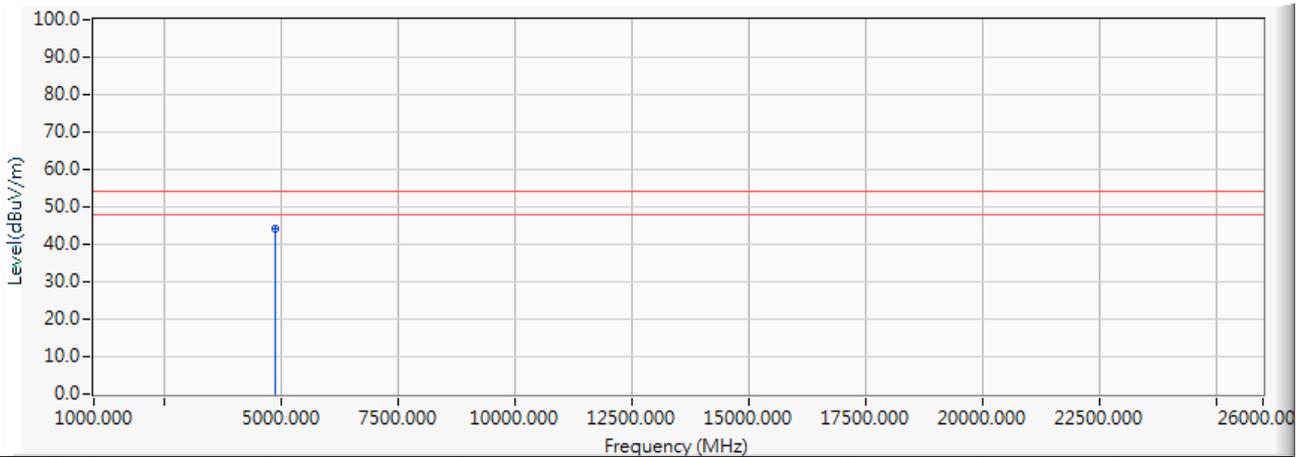


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	3251.257	-6.711	47.690	40.978	-33.022	74.000	PEAK
2	* 4874.854	-0.135	55.410	55.274	-18.726	74.000	PEAK
3	7311.112	7.405	41.450	48.855	-25.145	74.000	PEAK
4	9748.574	12.853	37.580	50.433	-23.567	74.000	PEAK
5	12185.541	14.902	36.890	51.792	-22.208	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ \* ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
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Site : DEKRA Taiwan CB2-H	Time : 2018/07/07
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_ADP-45BW B 802.11ac(20M)_2437MHz

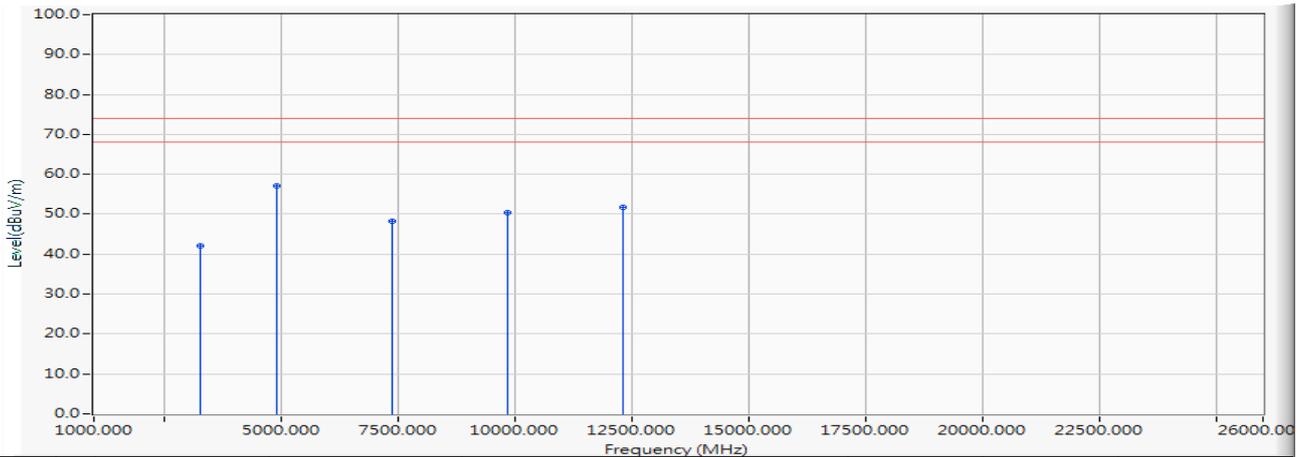


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4874.854	-0.135	44.380	44.244	-9.756	54.000	AVERAGE

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ \* ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
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Site : DEKRA Taiwan CB2-H	Time : 2018/07/07
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_ADP-45BW B 802.11ac(20M)_2462MHz

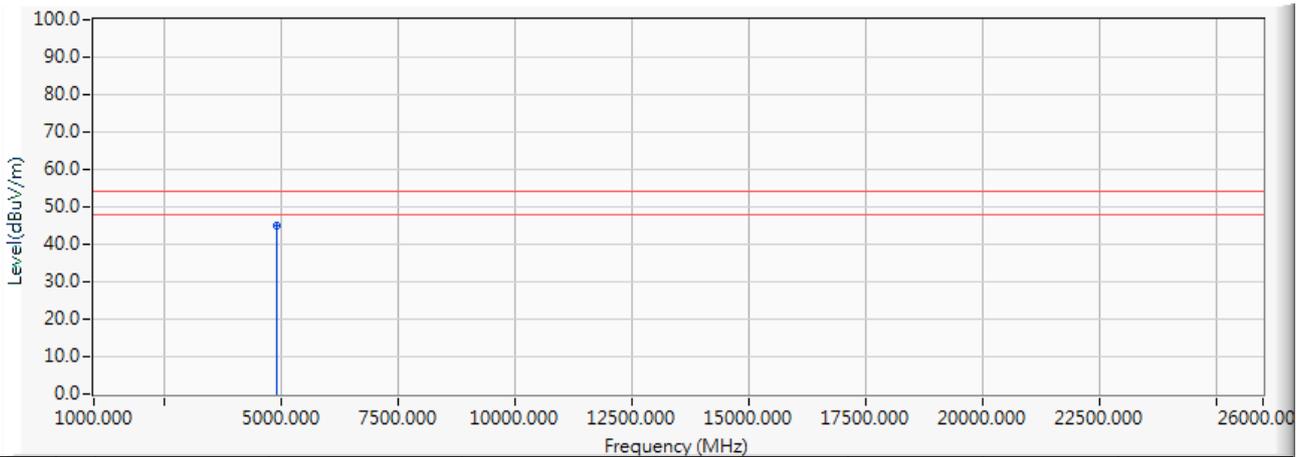


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	0.000	-14.820	66.991	52.171	-7.829	60.000	PEAK
2		3283.479	-6.649	48.730	42.081	-31.919	74.000	PEAK
3		4924.524	-0.075	57.120	57.045	-16.955	74.000	PEAK
4		7386.548	7.676	40.560	48.236	-25.764	74.000	PEAK
5		9848.752	12.990	37.340	50.330	-23.670	74.000	PEAK
6		12310.234	15.098	36.673	51.771	-22.229	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ \* ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
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Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_ADP-45BW B 802.11ac(20M)_2462MHz

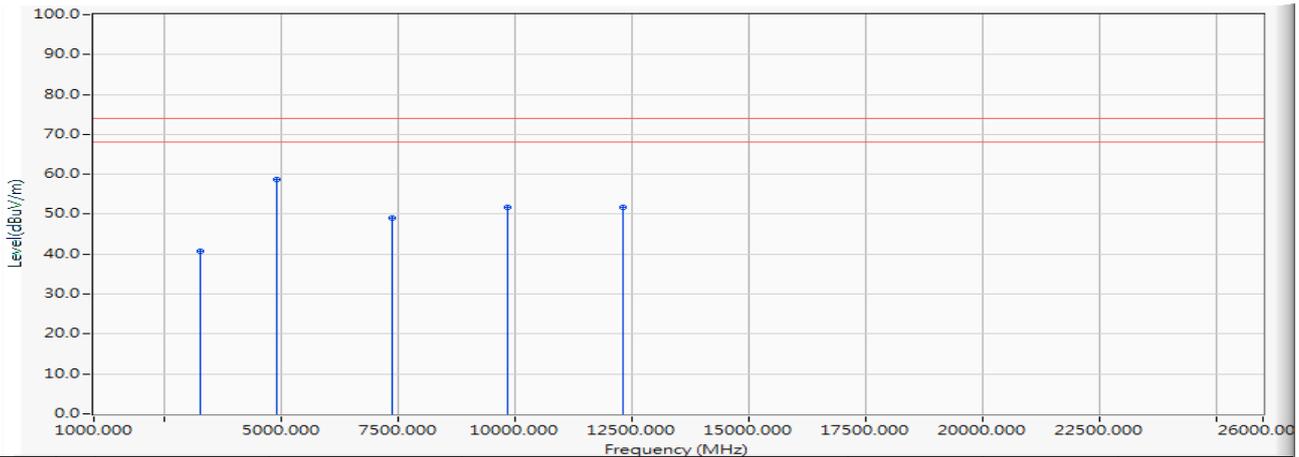


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4924.524	-0.075	45.020	44.945	-9.055	54.000	AVERAGE

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ \* ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
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Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_ADP-45BW B 802.11ac(20M)_2462MHz

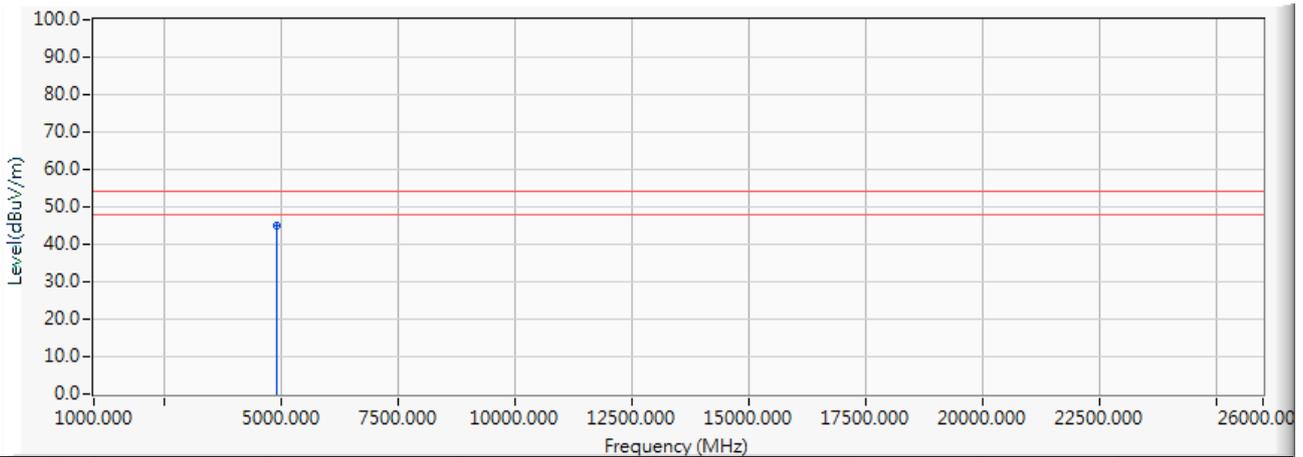


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	3284.520	-6.646	47.460	40.813	-33.187	74.000	PEAK
2	* 4924.518	-0.074	58.790	58.715	-15.285	74.000	PEAK
3	7386.526	7.676	41.330	49.006	-24.994	74.000	PEAK
4	9848.661	12.990	38.840	51.830	-22.170	74.000	PEAK
5	12310.972	15.103	36.760	51.863	-22.137	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/07
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_ADP-45BW B 802.11ac(20M)_2462MHz

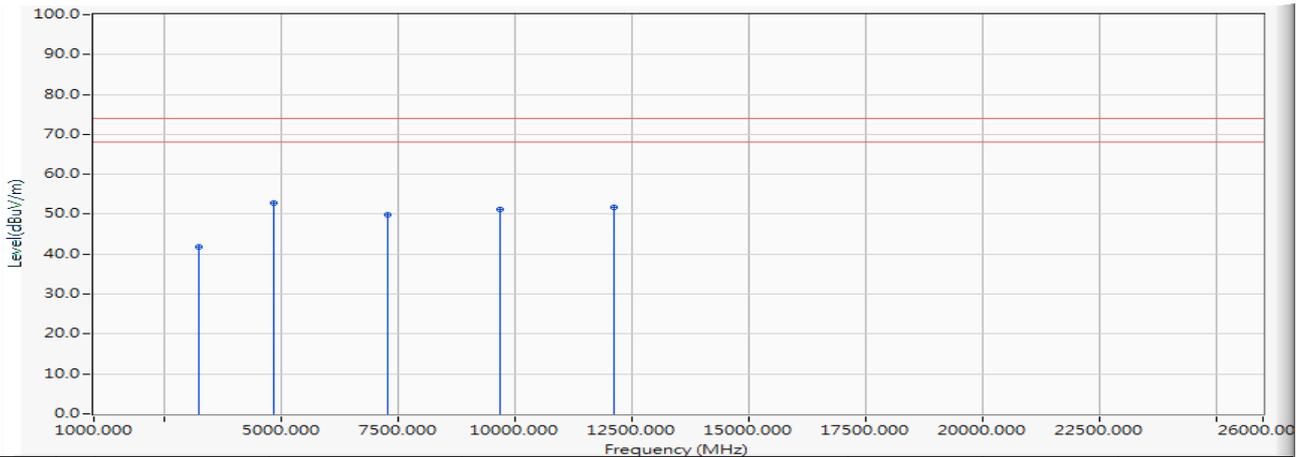


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4924.518	-0.074	44.920	44.845	-9.155	54.000	AVERAGE

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ \* ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/07
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_ADP-45BW B 802.11ac(40M)_2422MHz

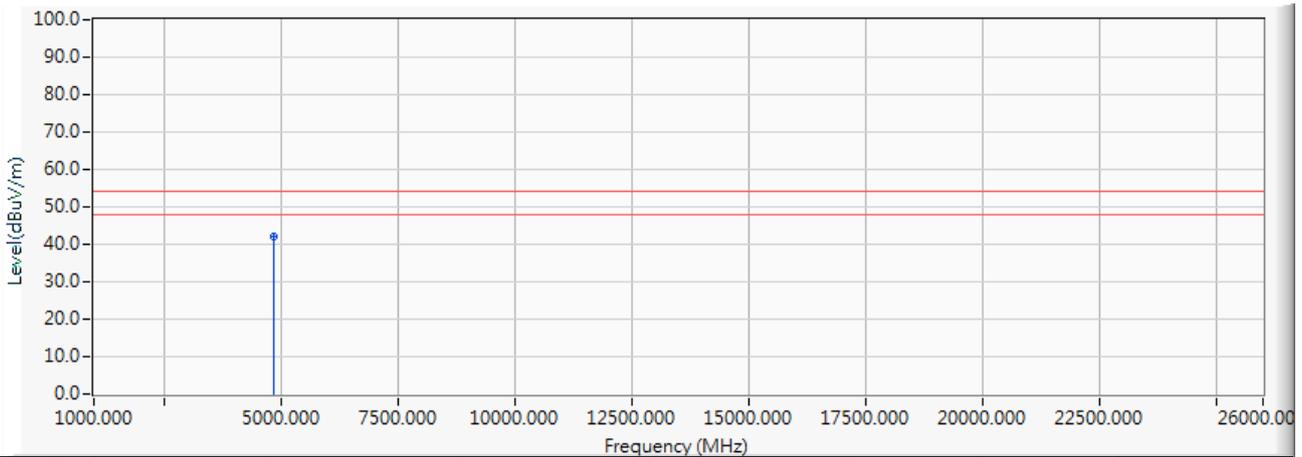


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	3230.214	-6.748	48.570	41.822	-32.178	74.000	PEAK
2	* 4844.547	-0.162	52.890	52.729	-21.271	74.000	PEAK
3	7266.641	7.355	42.580	49.935	-24.065	74.000	PEAK
4	9688.307	12.783	38.420	51.203	-22.797	74.000	PEAK
5	12110.124	15.164	36.670	51.834	-22.166	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/07
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_ADP-45BW B 802.11ac(40M)_2422MHz

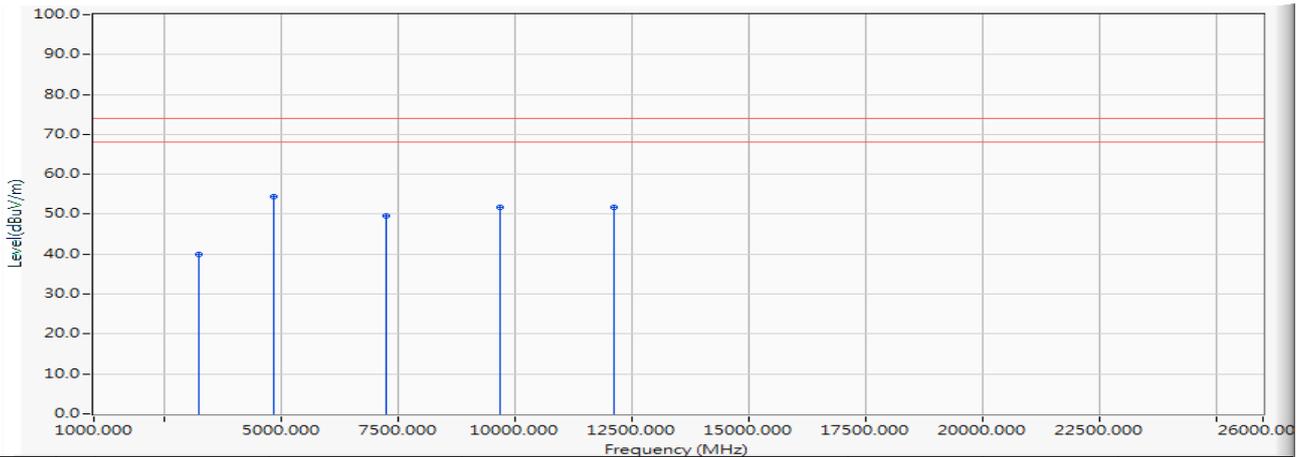


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4844.547	-0.162	42.380	42.219	-11.781	54.000	AVERAGE

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ \* ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/07
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_AD P-45BW B 802.11ac(40M)_2422MHz

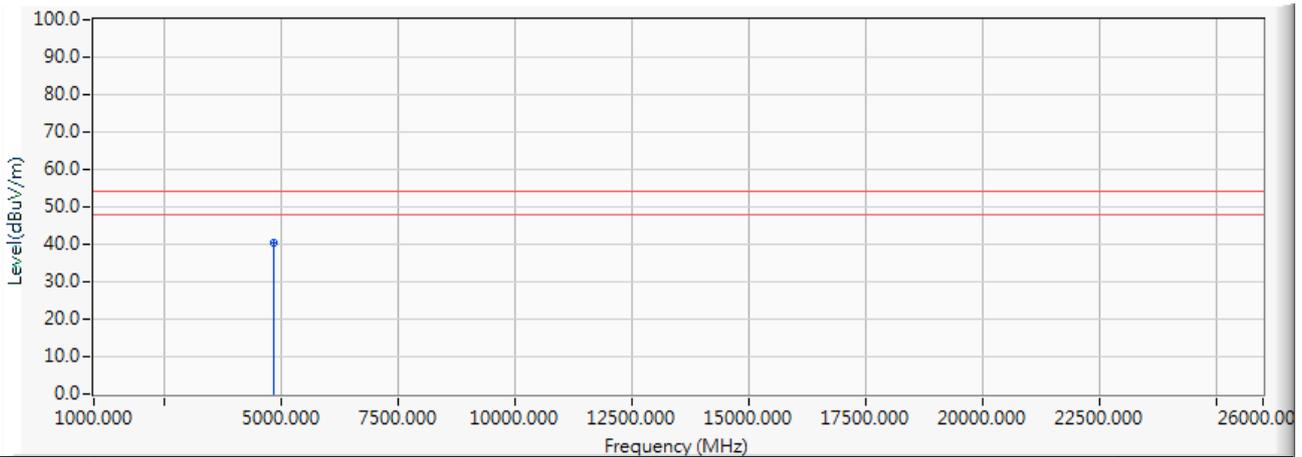


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	3229.885	-6.749	46.710	39.961	-34.039	74.000	PEAK
2	* 4844.148	-0.160	54.450	54.290	-19.710	74.000	PEAK
3	7265.542	7.353	42.260	49.613	-24.387	74.000	PEAK
4	9688.869	12.784	39.030	51.814	-22.186	74.000	PEAK
5	12110.047	15.164	36.640	51.804	-22.196	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/07
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_ADP-45BW B 802.11ac(40M)_2422MHz

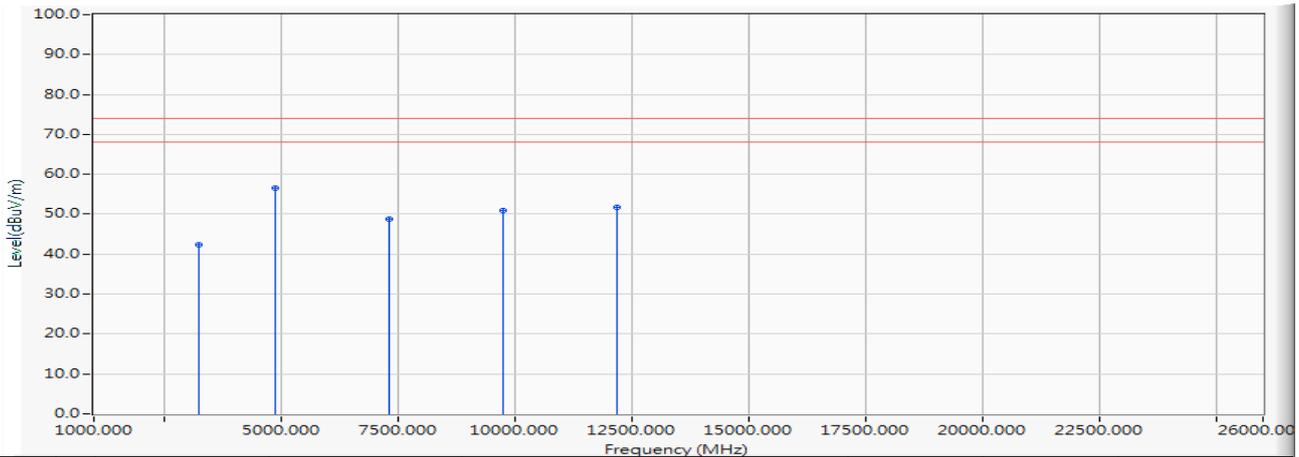


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4844.148	-0.160	40.410	40.250	-13.750	54.000	AVERAGE

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ \* ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/07
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_ADP-45BW B 802.11ac(40M)_2437MHz

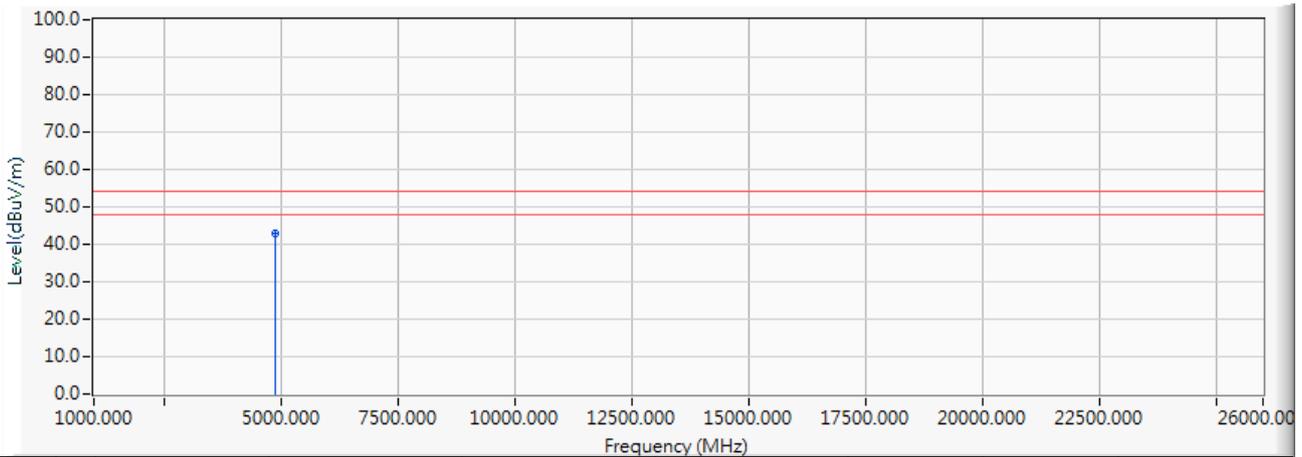


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	3249.685	-6.715	49.050	42.335	-31.665	74.000	PEAK
2	* 4874.427	-0.138	56.590	56.452	-17.548	74.000	PEAK
3	7311.526	7.406	41.410	48.816	-25.184	74.000	PEAK
4	9748.874	12.853	38.210	51.063	-22.937	74.000	PEAK
5	12185.859	14.902	36.970	51.871	-22.129	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ \* ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/07
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_ADP-45BW B 802.11ac(40M)_2437MHz

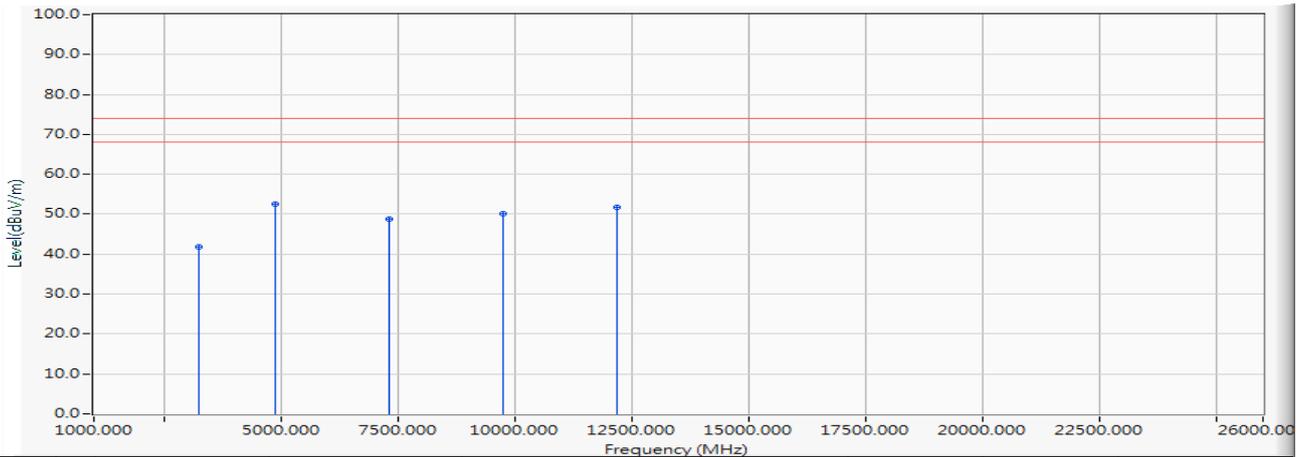


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4874.427	-0.138	42.910	42.772	-11.228	54.000	AVERAGE

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ \* ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/07
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_ADP-45BW B 802.11ac(40M)_2437MHz

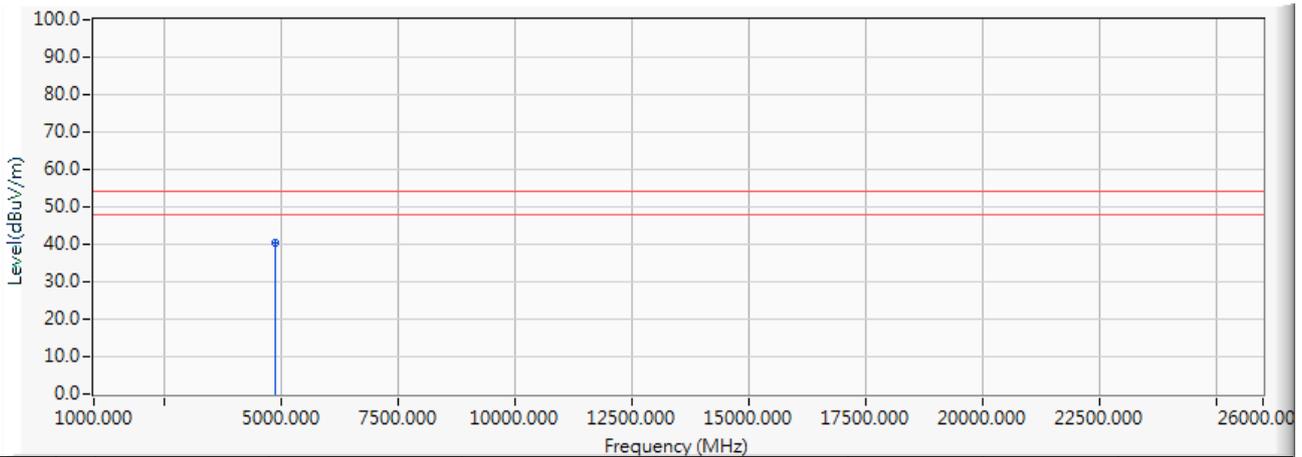


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	3248.143	-6.718	48.670	41.952	-32.048	74.000	PEAK
2	* 4874.636	-0.137	52.720	52.583	-21.417	74.000	PEAK
3	7311.164	7.405	41.290	48.695	-25.305	74.000	PEAK
4	9748.867	12.853	37.290	50.143	-23.857	74.000	PEAK
5	12185.639	14.902	36.710	51.612	-22.388	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/07
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_ADP-45BW B 802.11ac(40M)_2437MHz

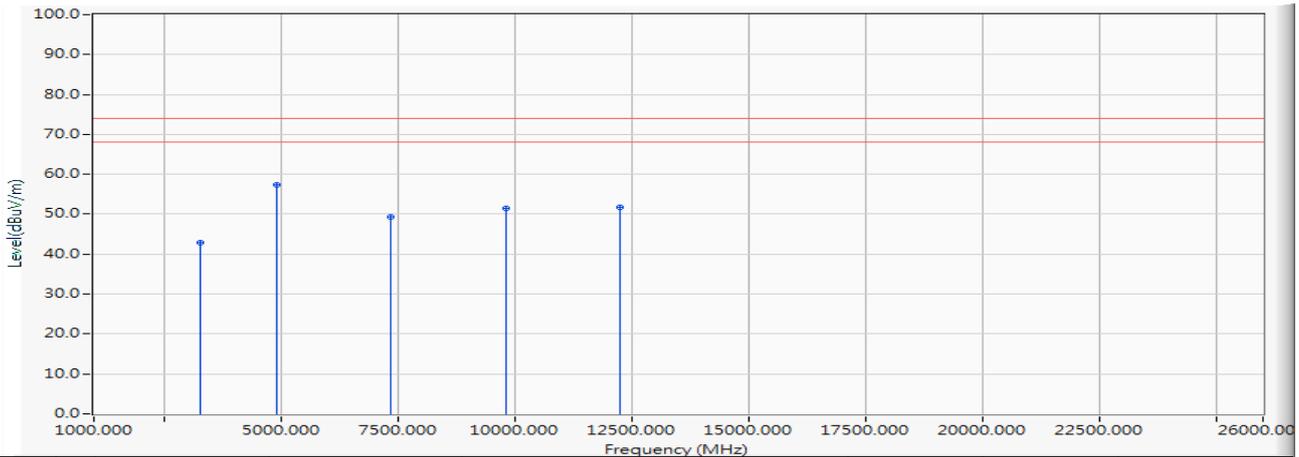


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4874.638	-0.137	40.680	40.543	-13.457	54.000	AVERAGE

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ \* ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/07
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_ADP-45BW B 802.11ac(40M)_2452MHz

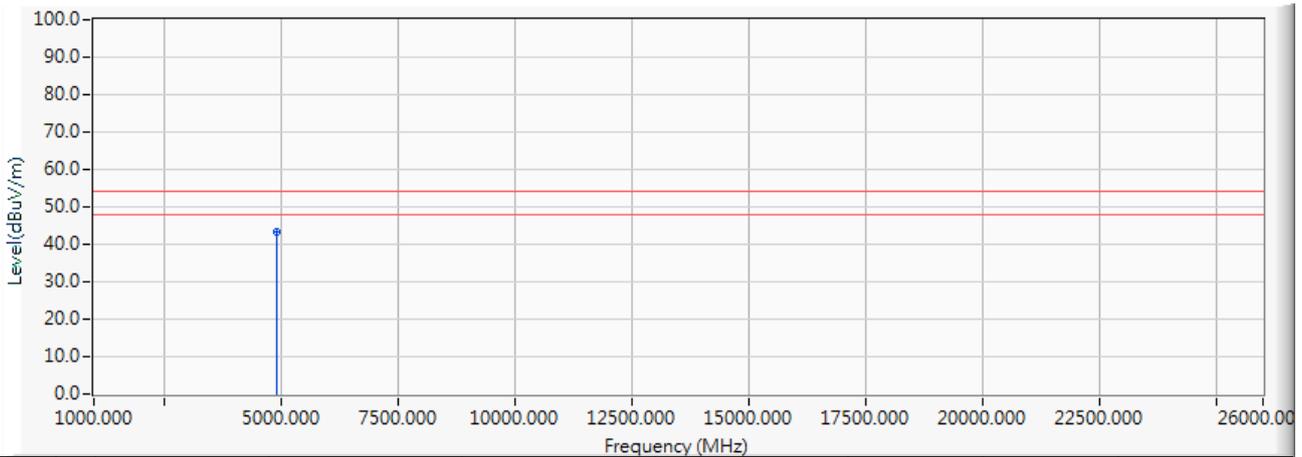


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	3268.772	-6.677	49.520	42.842	-31.158	74.000	PEAK
2	* 4904.527	-0.098	57.430	57.332	-16.668	74.000	PEAK
3	7356.652	7.568	41.750	49.318	-24.682	74.000	PEAK
4	9808.657	12.933	38.450	51.384	-22.616	74.000	PEAK
5	12260.680	14.746	37.110	51.857	-22.143	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ \* ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/07
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_ADP-45BW B 802.11ac(40M)_2452MHz

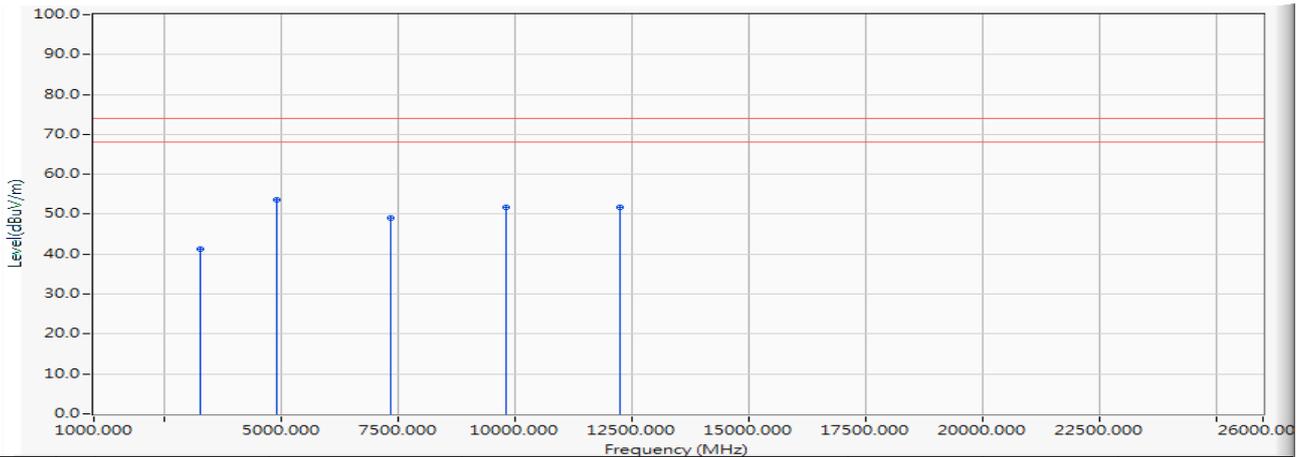


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4904.527	-0.098	43.610	43.512	-10.488	54.000	AVERAGE

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ \* ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/07
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_ADP-45BW B 802.11ac(40M)_2452MHz

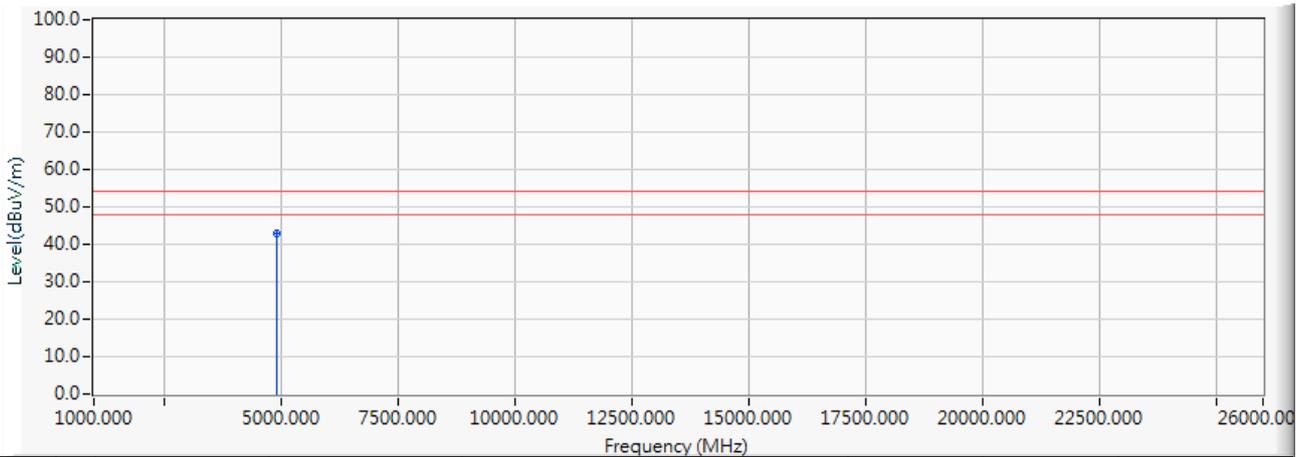


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	3270.144	-6.676	47.840	41.165	-32.835	74.000	PEAK
2	* 4904.125	-0.099	53.690	53.592	-20.408	74.000	PEAK
3	7356.521	7.568	41.580	49.148	-24.852	74.000	PEAK
4	9807.876	12.933	38.730	51.663	-22.337	74.000	PEAK
5	12261.114	14.749	37.020	51.770	-22.230	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : DEKRA Taiwan CB2-H	Time : 2018/07/07
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB2-H_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2200 Tri Band Gigabit Router	Note : Mode 1: Transmit_CDD_ADP-45BW B 802.11ac(40M)_2452MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4904.125	-0.099	43.220	43.122	-10.878	54.000	AVERAGE

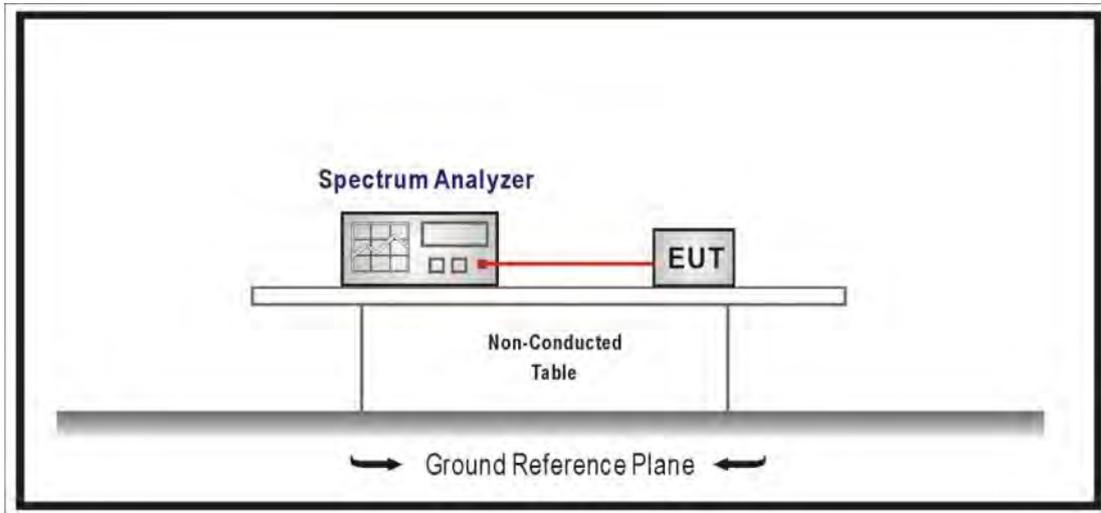
Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ \* ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

## 5. RF antenna conducted test

### 5.1. Test Setup

RF Antenna Conducted Measurement:



### 5.2. 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)).

### 5.3. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to DTS test procedure section 11.2 of KDB 558074 D01 V05 for compliance to FCC 47CFR 15.247 requirements. Set RBW = 100 kHz, Set VBW > RBW, scan up through 10th harmonic.

### 5.4. Test Specification

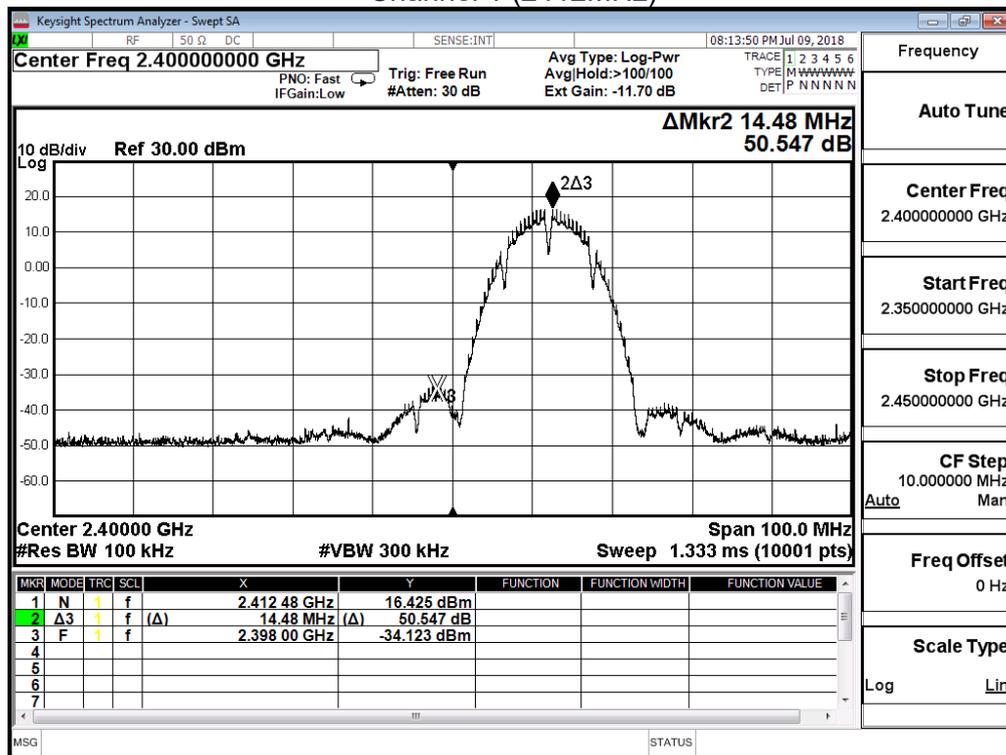
According to FCC Part 15 Subpart C Paragraph 15.247: 2017

### 5.5. Test Result

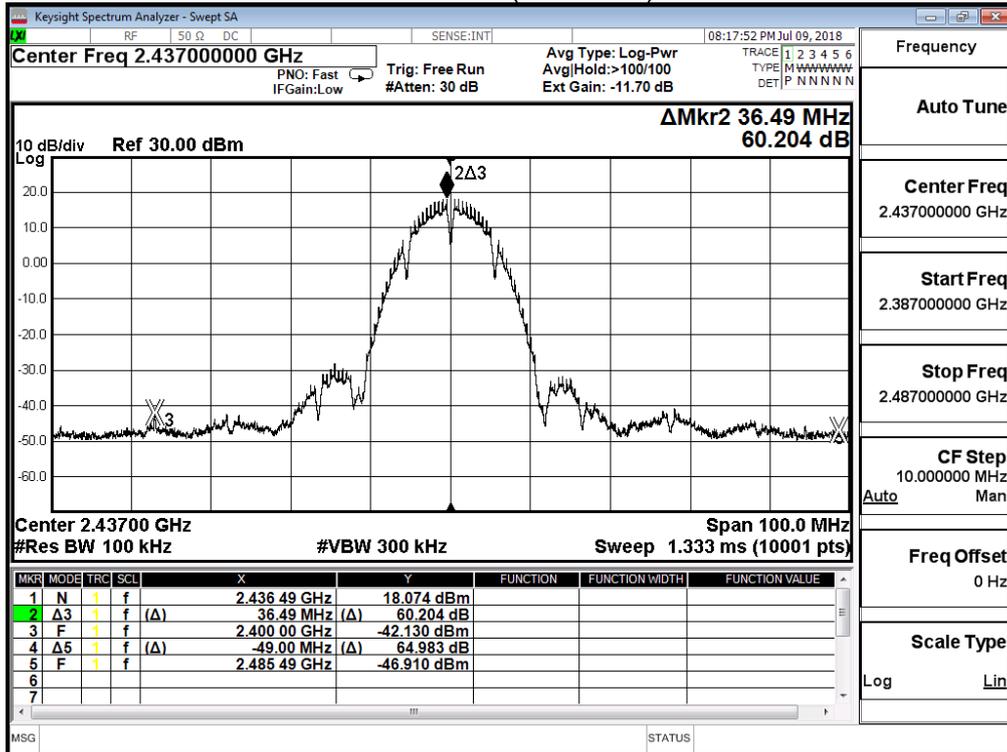
Product	Wireless-AC2200 Tri Band Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_CDD_ADP-45BW B		
Date of Test	2018/07/09	Test Site	SR10-H

IEEE 802.11b (ANT 0)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	50.547	≥ 30	Pass
6	2437	58.260	≥ 30	Pass
11	2462	58.552	≥ 30	Pass

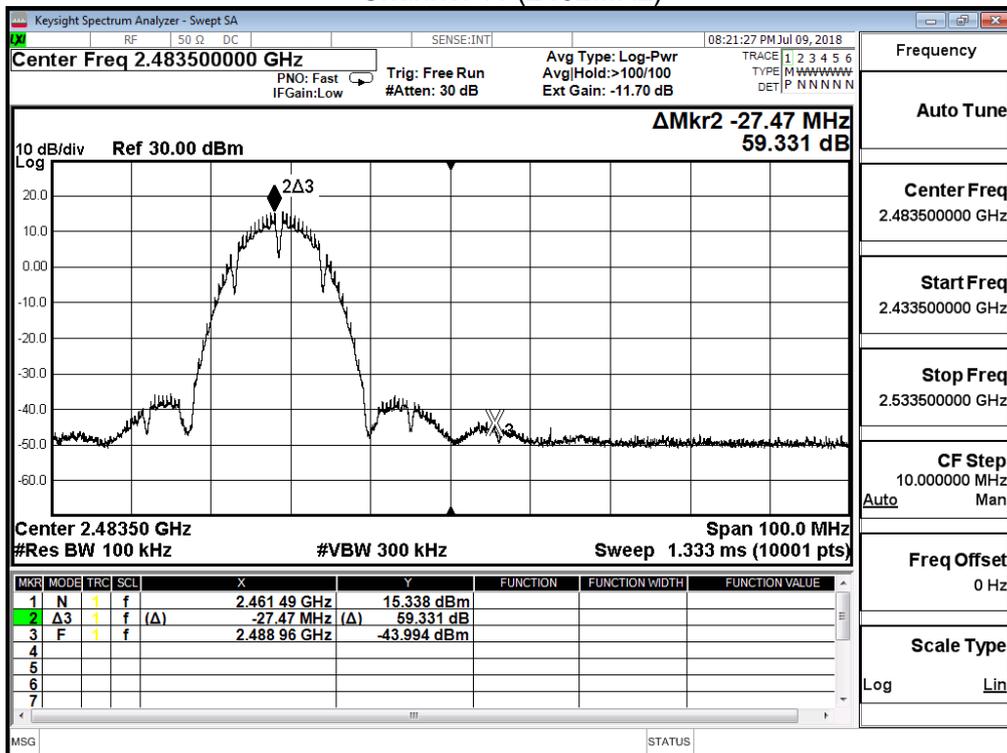
Channel 1 (2412MHz)



### Channel 6 (2437MHz)



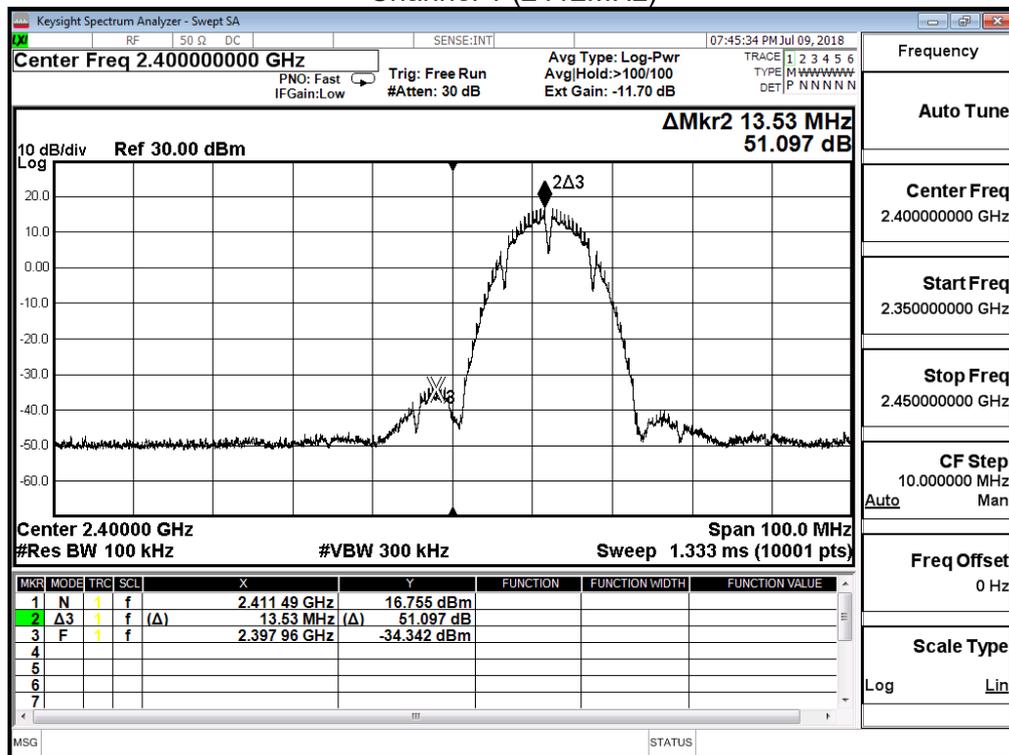
### Channel 11 (2462MHz)



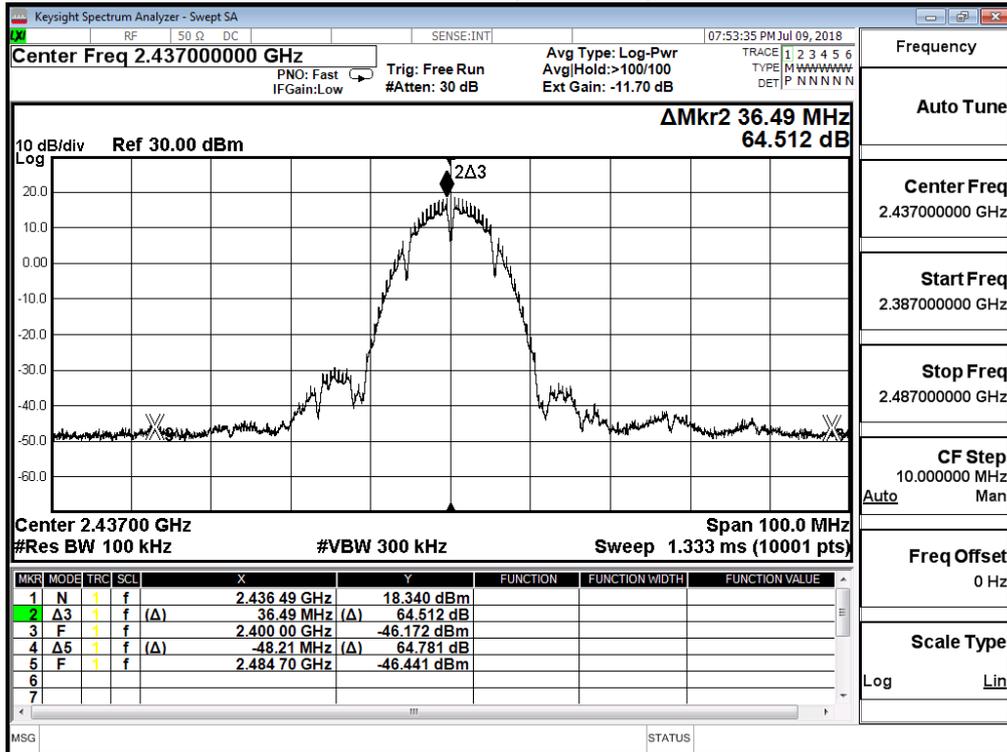
Product	Wireless-AC2200 Tri Band Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_CDD_ADP-45BW_B		
Date of Test	2018/07/09	Test Site	SR10-H

IEEE 802.11b (ANT 1)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	51.097	≥ 30	Pass
6	2437	60.674	≥ 30	Pass
11	2462	57.755	≥ 30	Pass

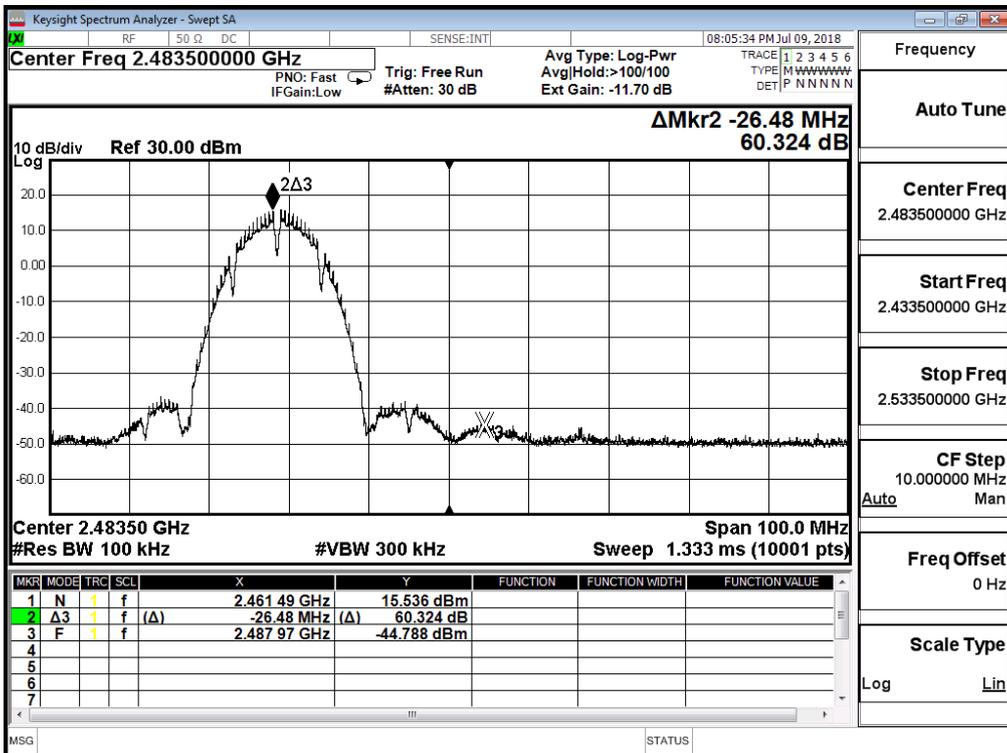
Channel 1 (2412MHz)



### Channel 6 (2437MHz)



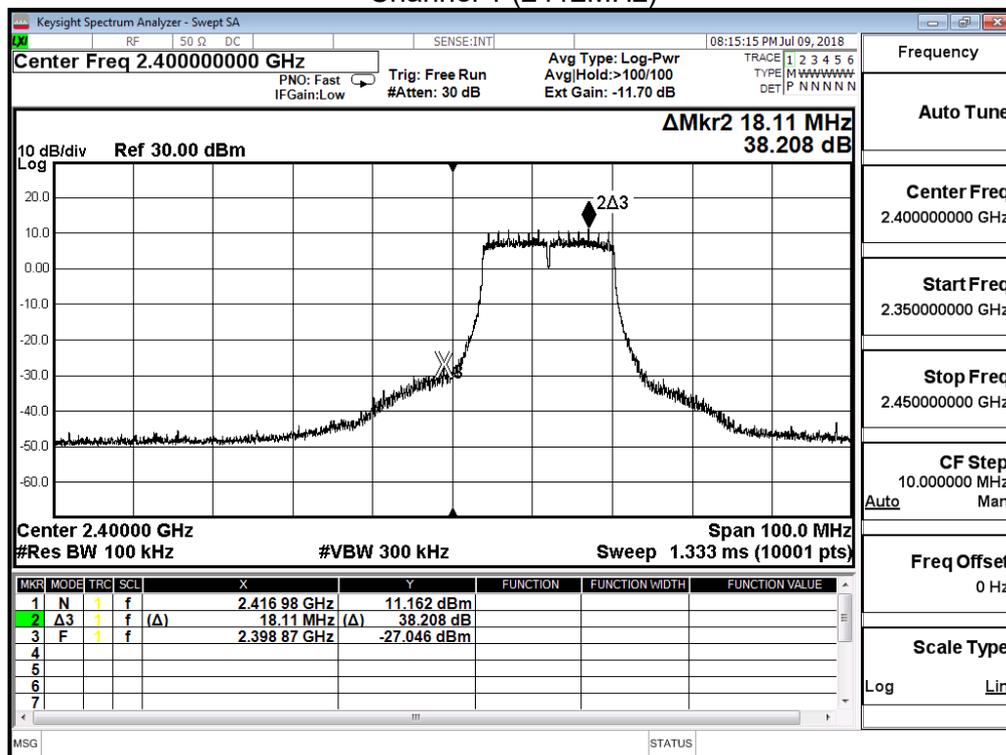
### Channel 11 (2462MHz)



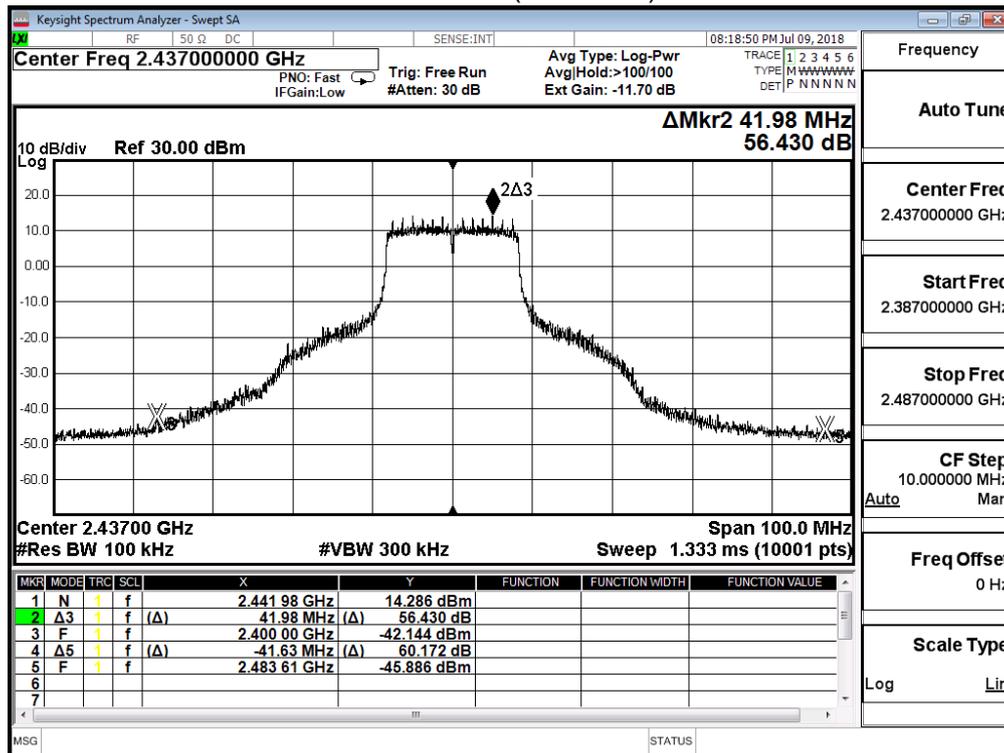
Product	Wireless-AC2200 Tri Band Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_CDD_ADP-45BW B		
Date of Test	2018/07/09	Test Site	SR10-H

IEEE 802.11g (ANT 0)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	38.208	$\geq 30$	Pass
6	2437	50.701	$\geq 30$	Pass
11	2462	49.467	$\geq 30$	Pass

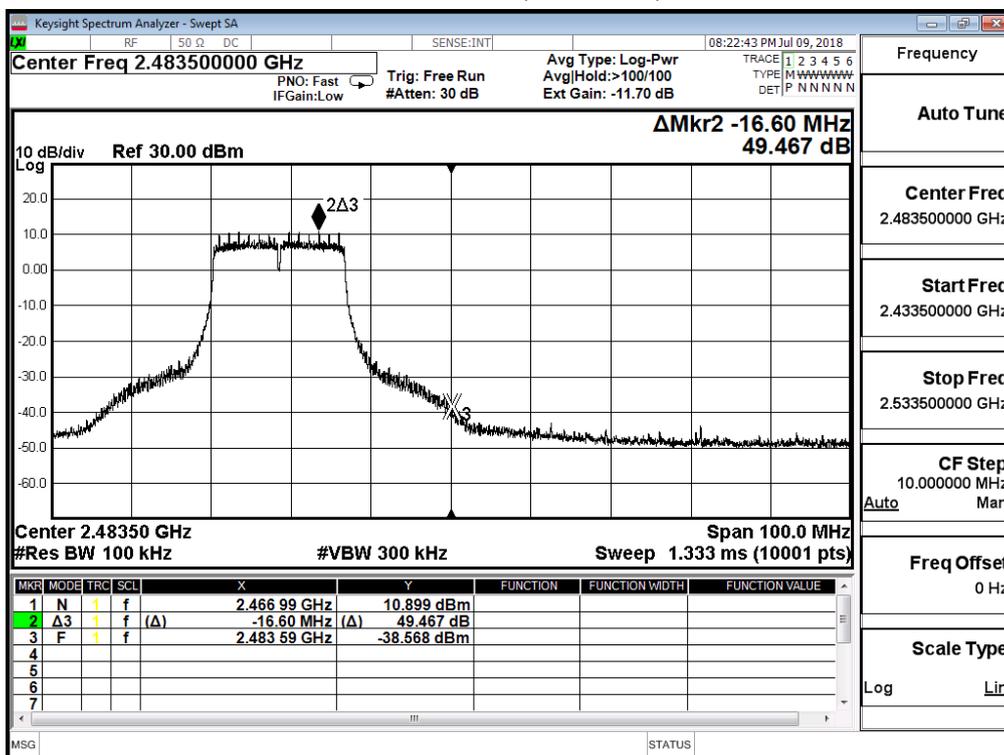
Channel 1 (2412MHz)



### Channel 6 (2437MHz)



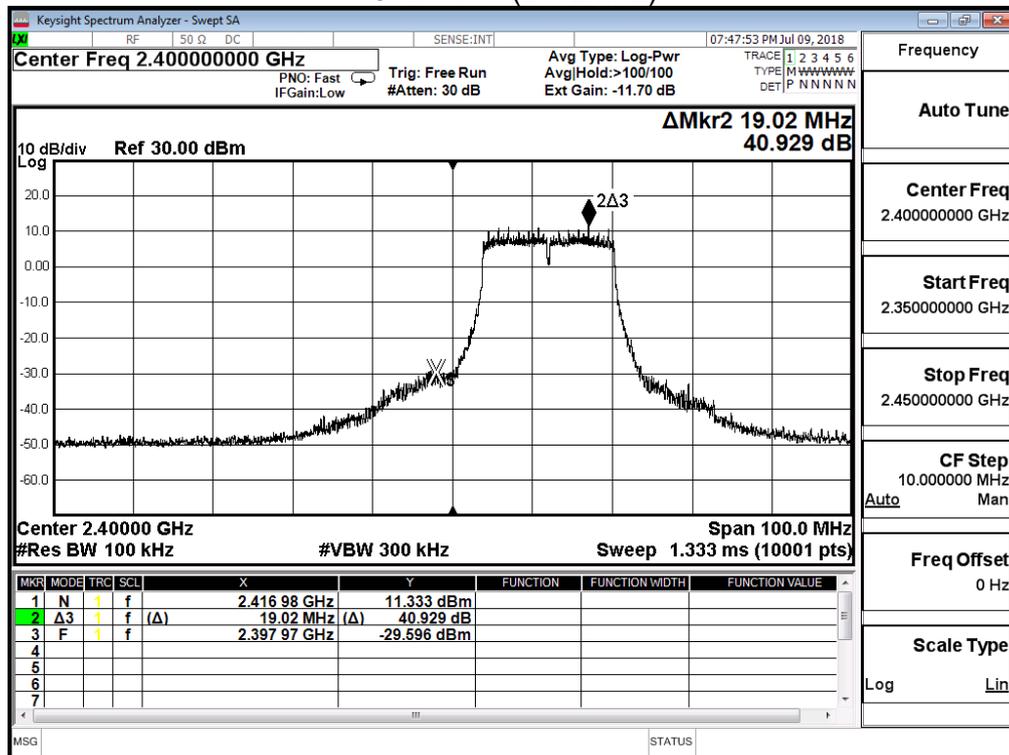
### Channel 11 (2462MHz)



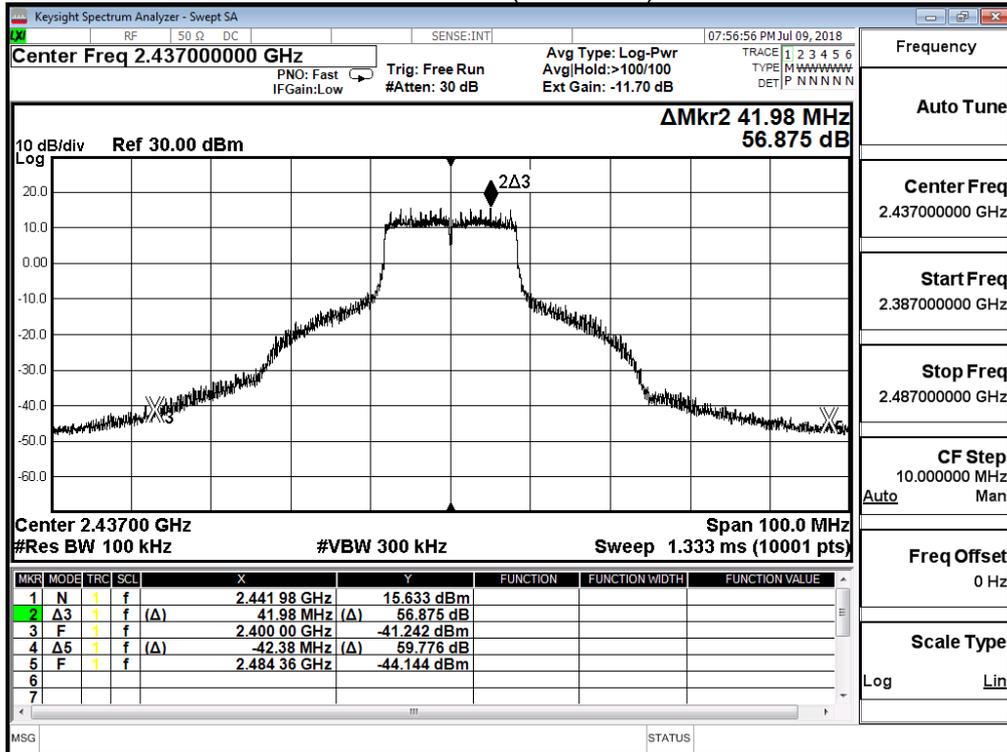
Product	Wireless-AC2200 Tri Band Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_CDD_ADP-45BW_B		
Date of Test	2018/07/09	Test Site	SR10-H

IEEE 802.11g (ANT 0)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	40.929	≥ 30	Pass
6	2437	56.875	≥ 30	Pass
11	2462	50.167	≥ 30	Pass

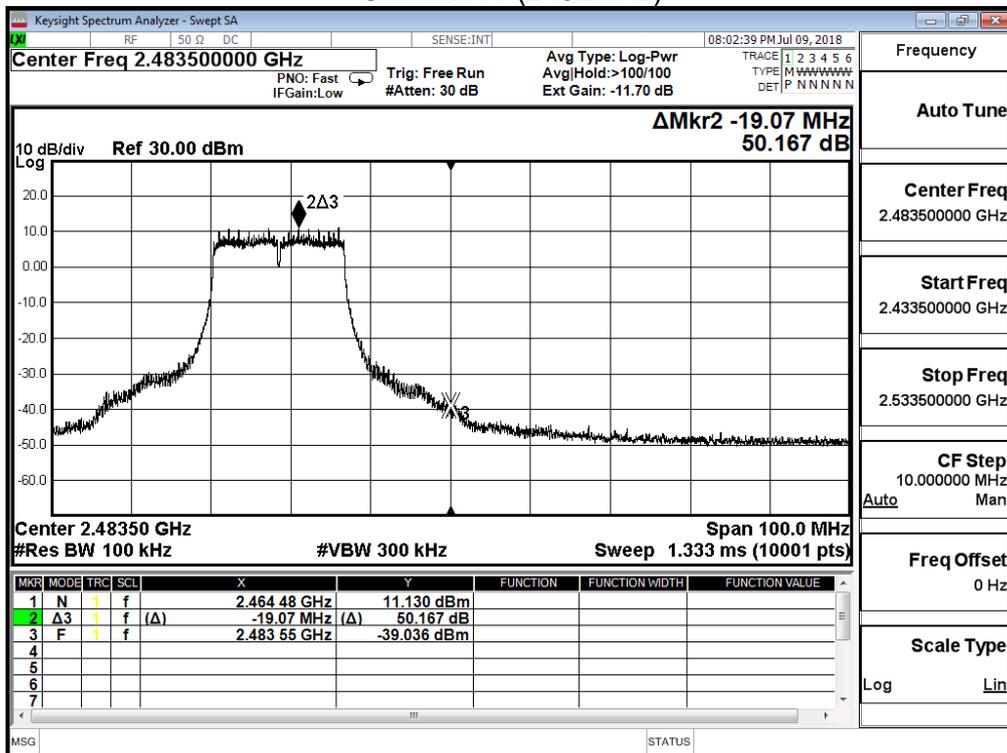
Channel 1 (2412MHz)



Channel 6 (2437MHz)



Channel 11 (2462MHz)

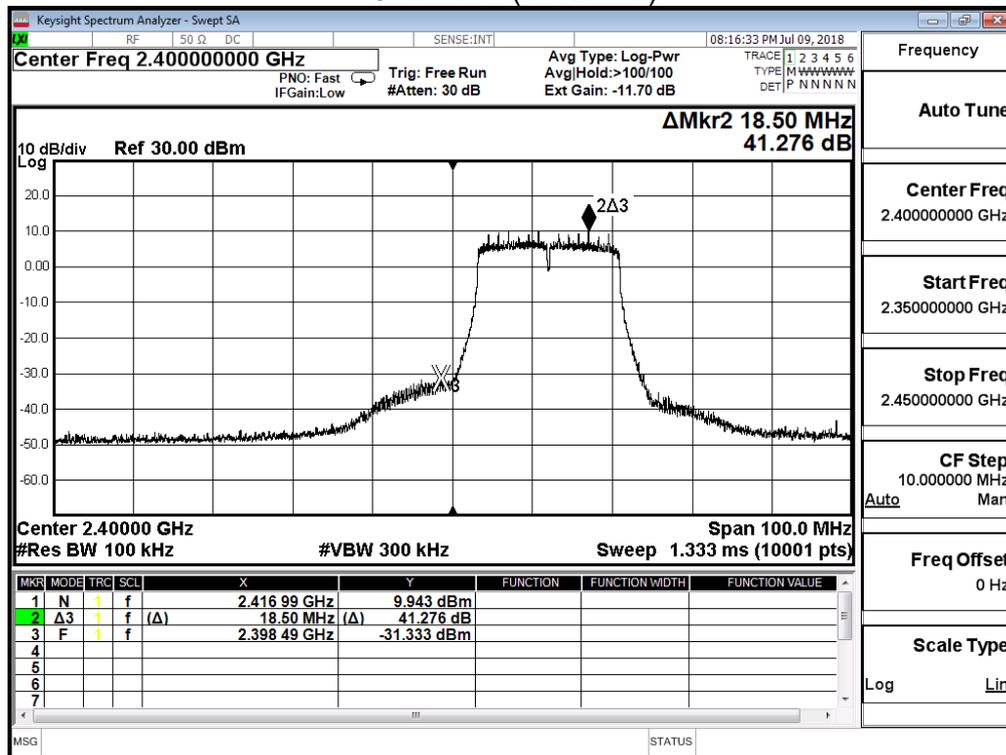


Product	Wireless-AC2200 Tri Band Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_CDD_ADP-45BW B		
Date of Test	2018/07/09	Test Site	SR10-H

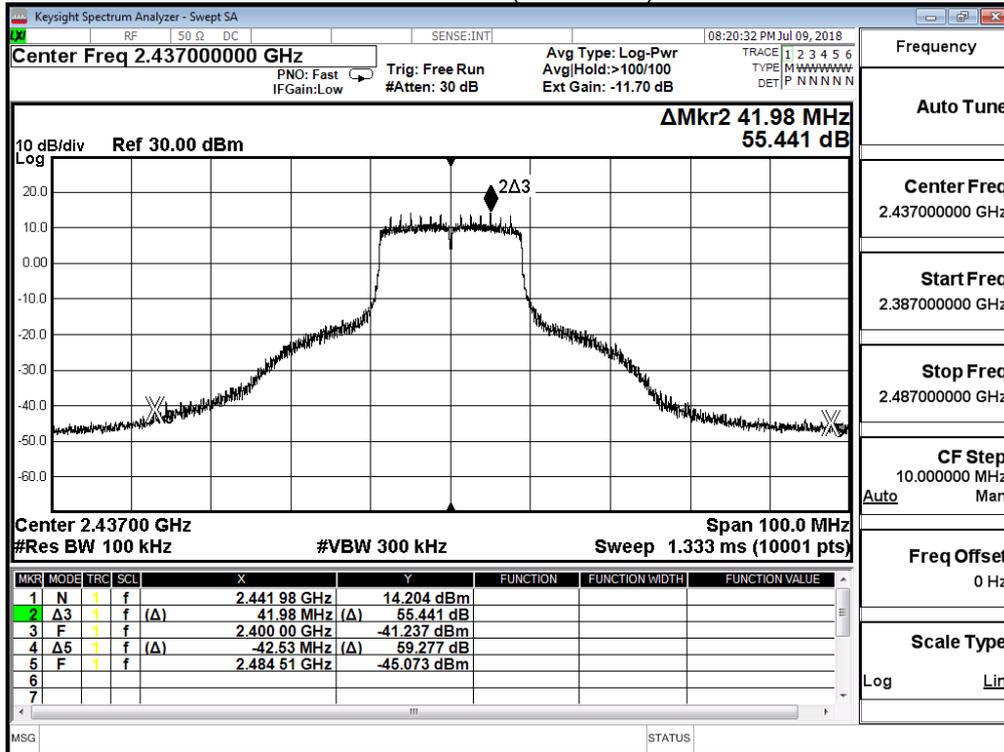
IEEE 802.11ac 20M (ANT 0)

Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	41.276	≥ 30	Pass
6	2437	54.980	≥ 30	Pass
11	2462	49.408	≥ 30	Pass

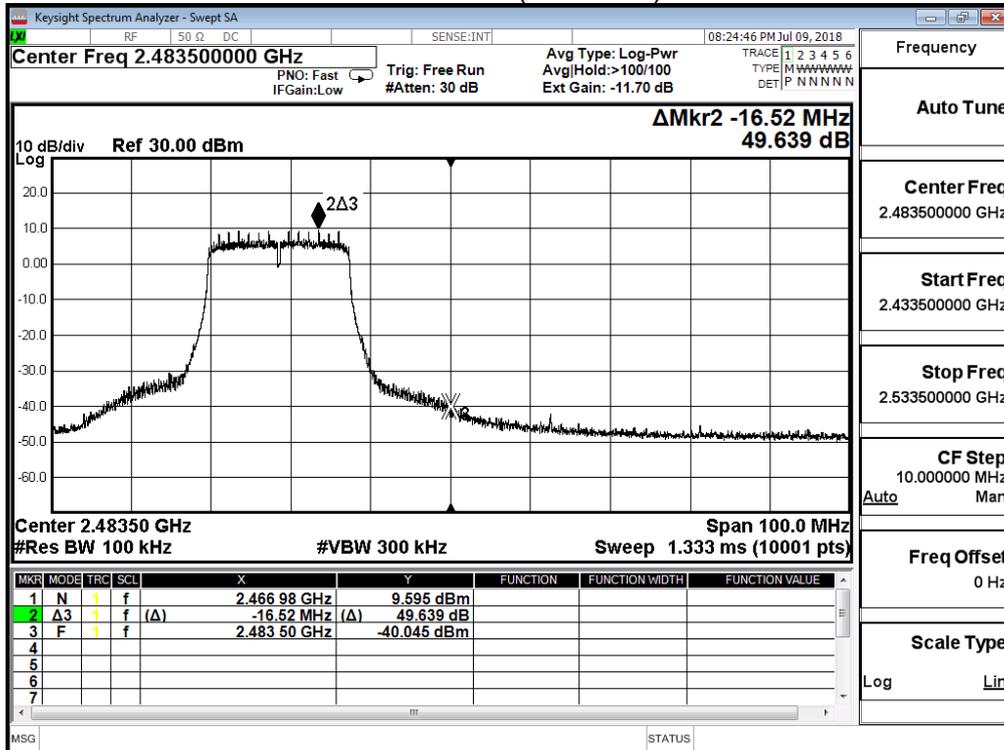
Channel 1 (2412MHz)



### Channel 6 (2437MHz)



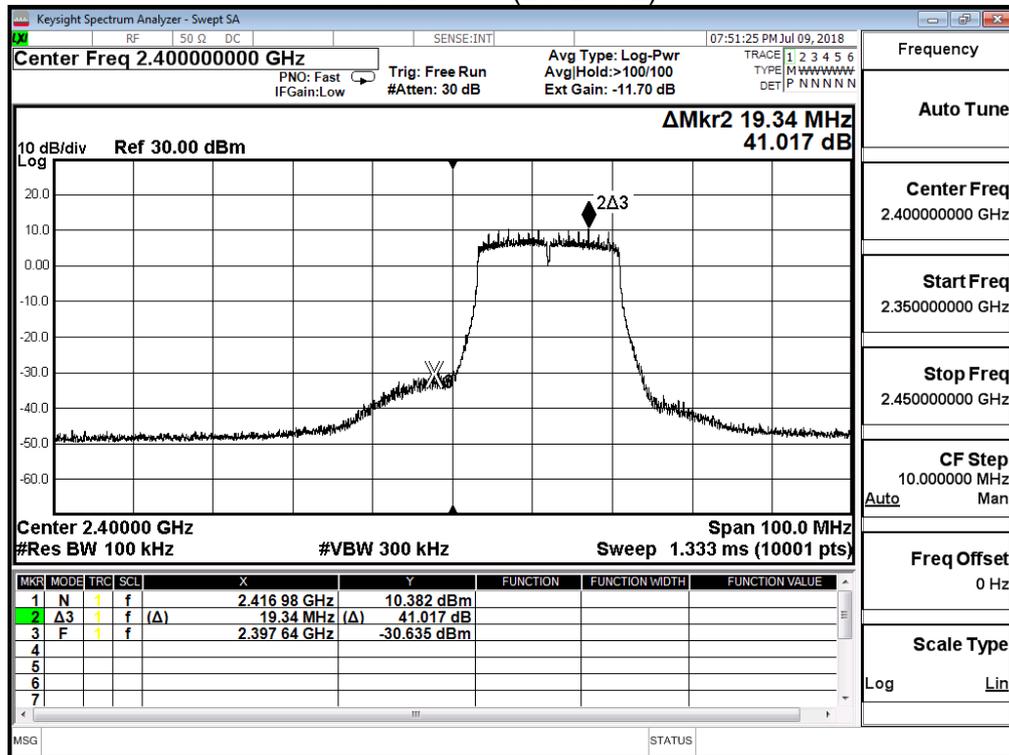
### Channel 11 (2462MHz)



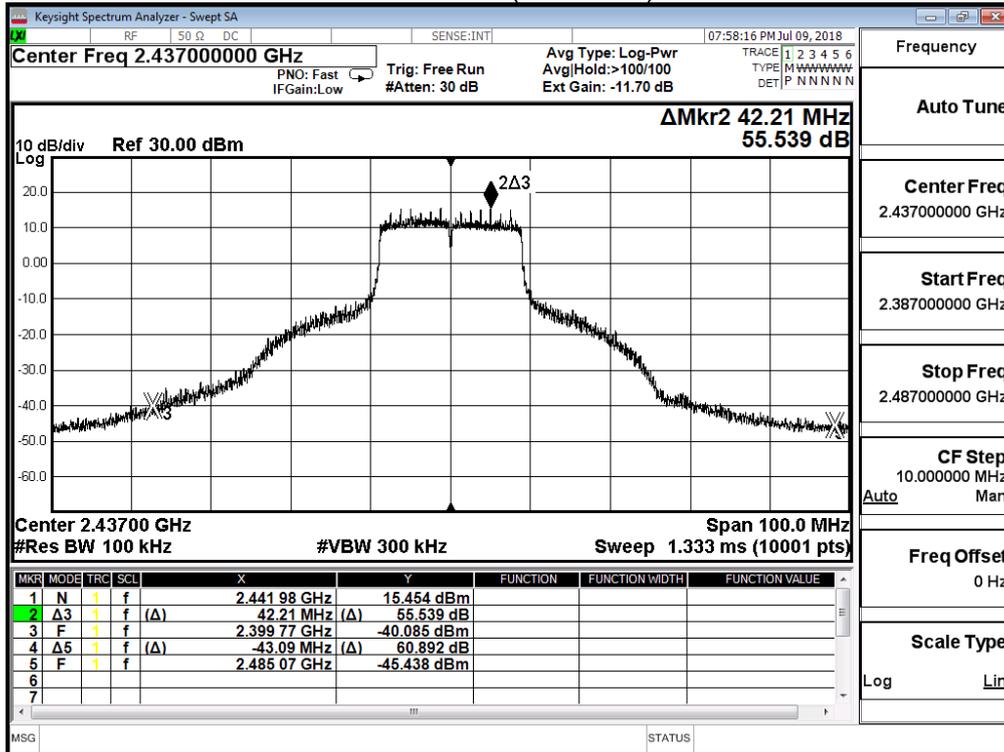
Product	Wireless-AC2200 Tri Band Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_CDD_ADP-45BW B		
Date of Test	2018/07/09	Test Site	SR10-H

IEEE 802.11ac 20M (ANT 1)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	41.017	$\geq 30$	Pass
6	2437	55.539	$\geq 30$	Pass
11	2462	49.125	$\geq 30$	Pass

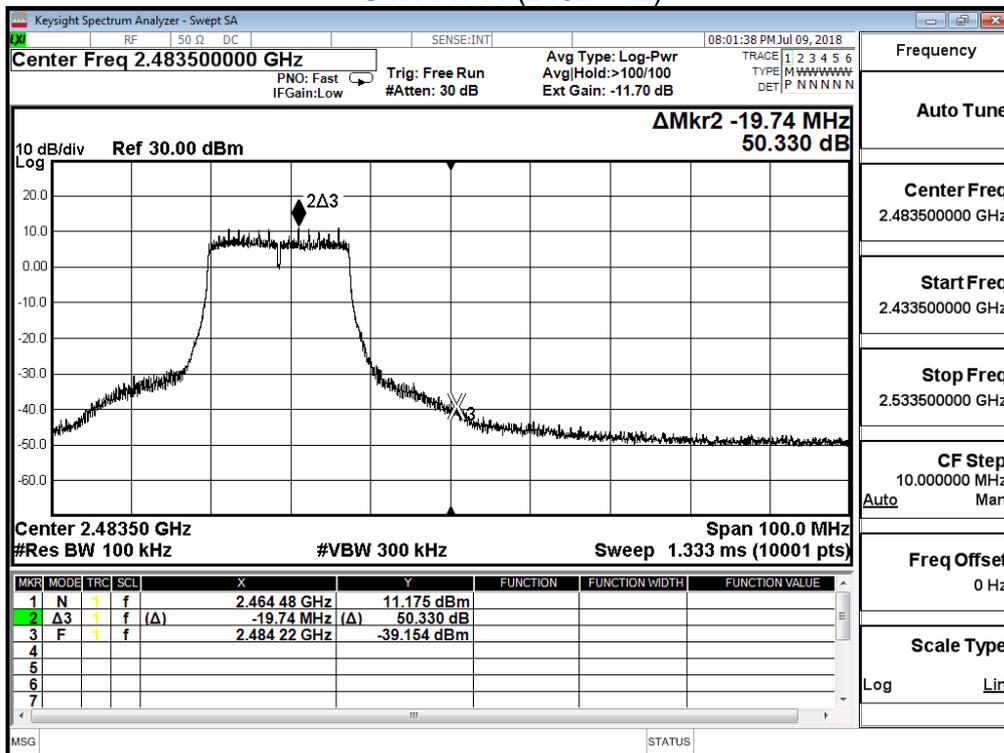
Channel 1 (2412MHz)



### Channel 6 (2437MHz)



### Channel 11 (2462MHz)

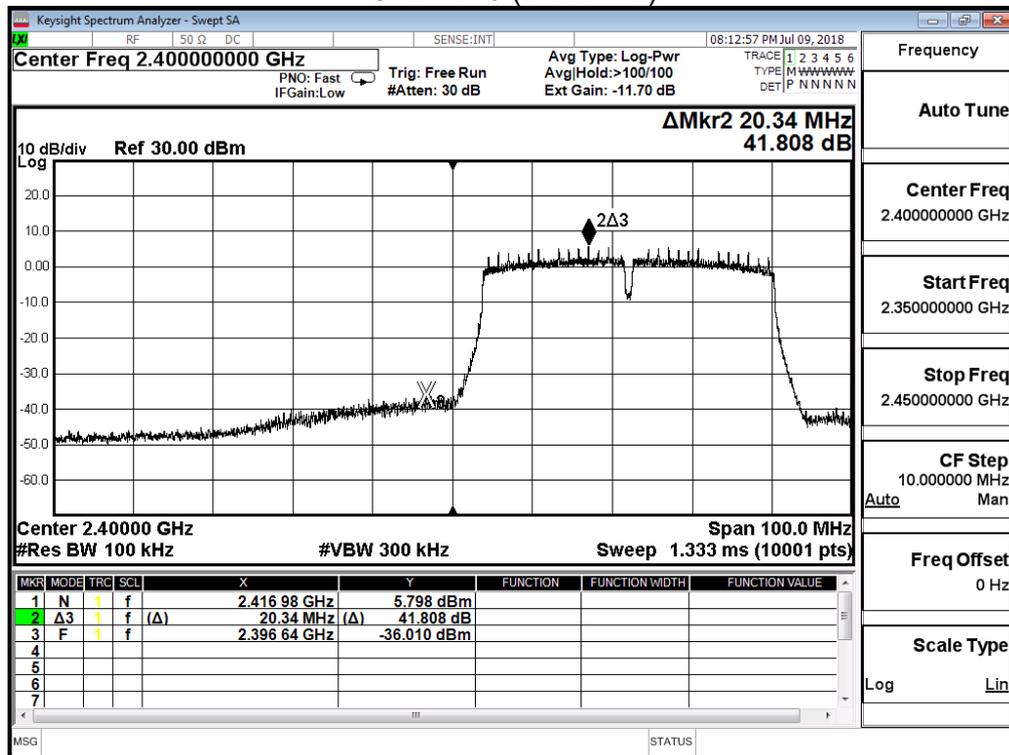


Product	Wireless-AC2200 Tri Band Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_CDD_ADP-45BW B		
Date of Test	2018/07/09	Test Site	SR10-H

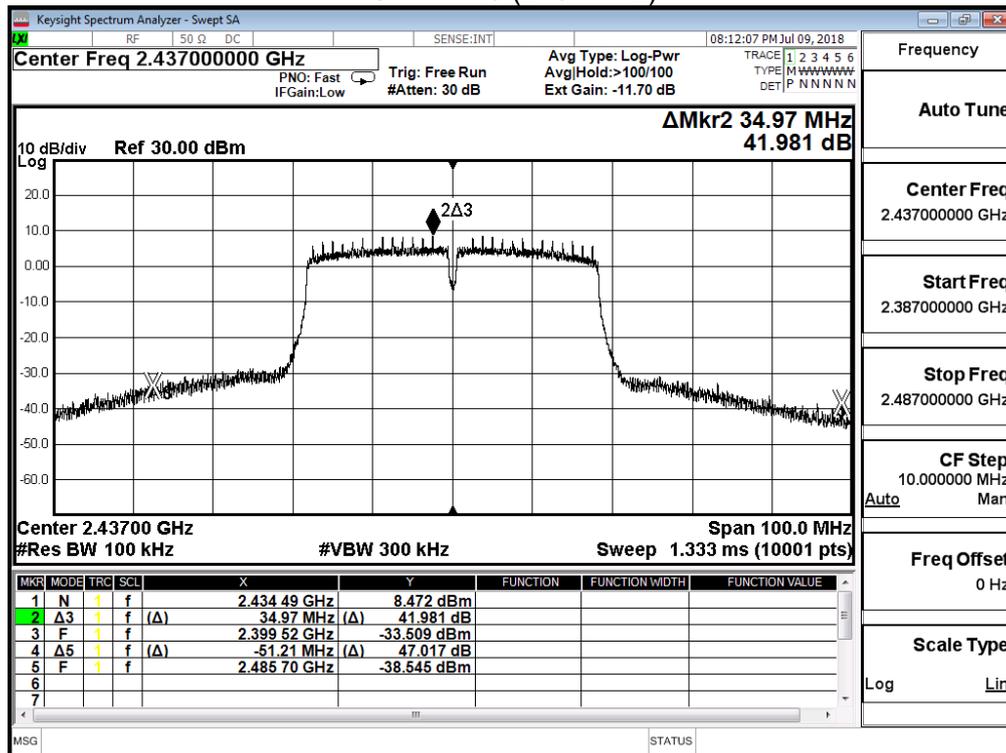
IEEE 802.11ac 40M (ANT 0)

Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	41.808	≥ 30	Pass
6	2437	41.981	≥ 30	Pass
9	2452	45.829	≥ 30	Pass

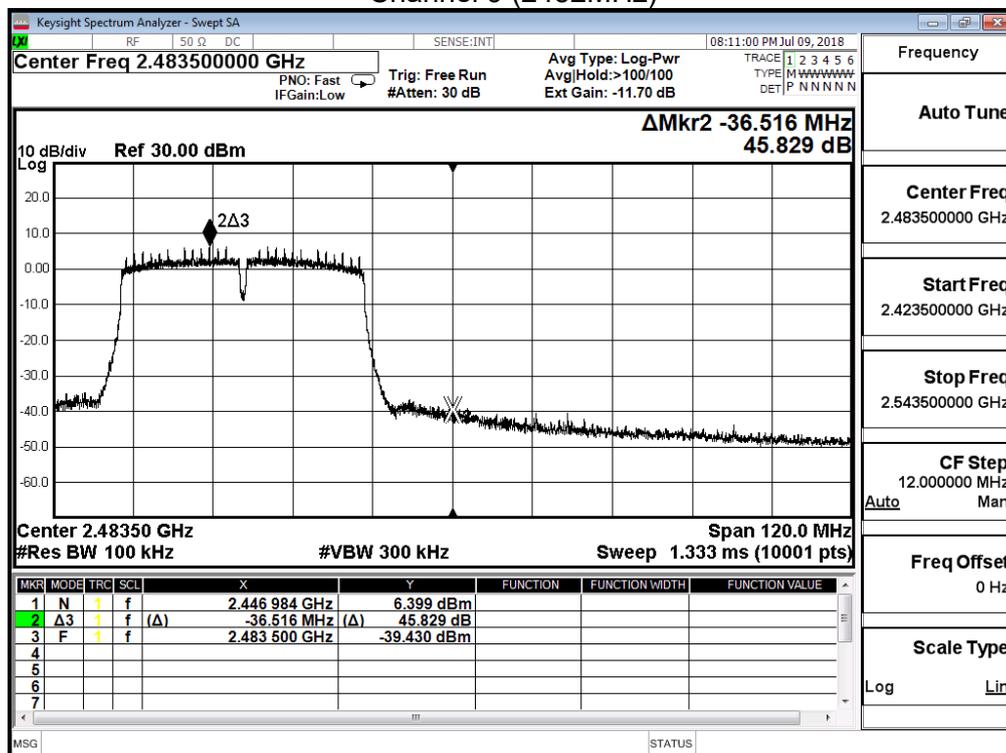
Channel 3 (2422MHz)



### Channel 6 (2437MHz)



### Channel 9 (2452MHz)

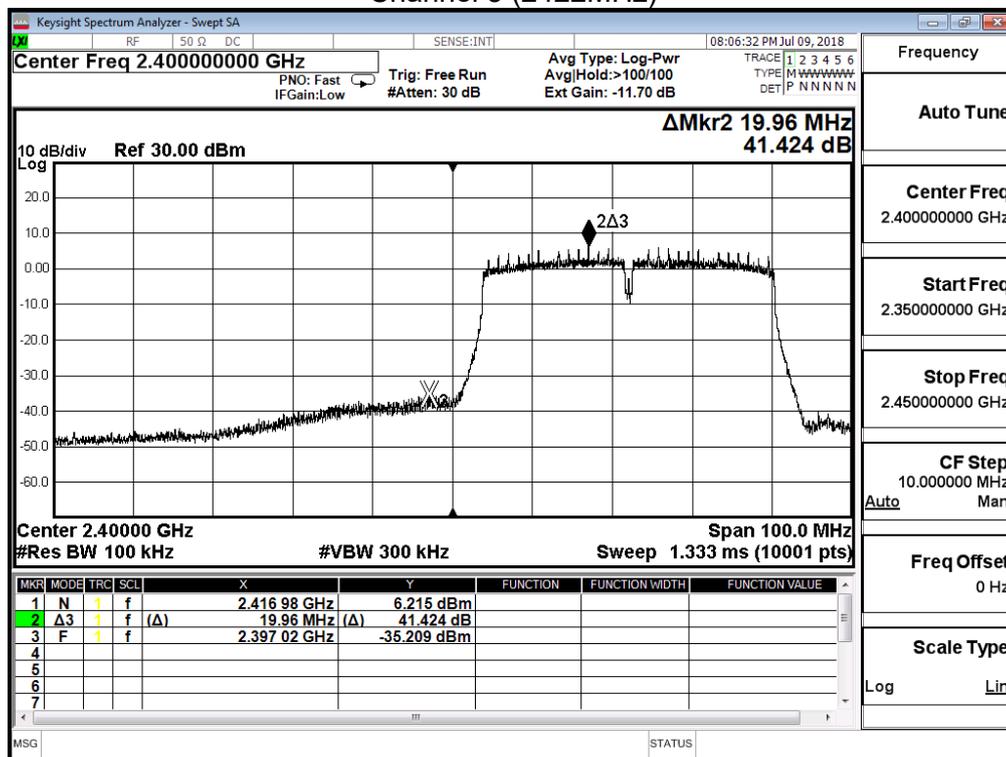


Product	Wireless-AC2200 Tri Band Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_CDD_ADP-45BW B		
Date of Test	2018/07/09	Test Site	SR10-H

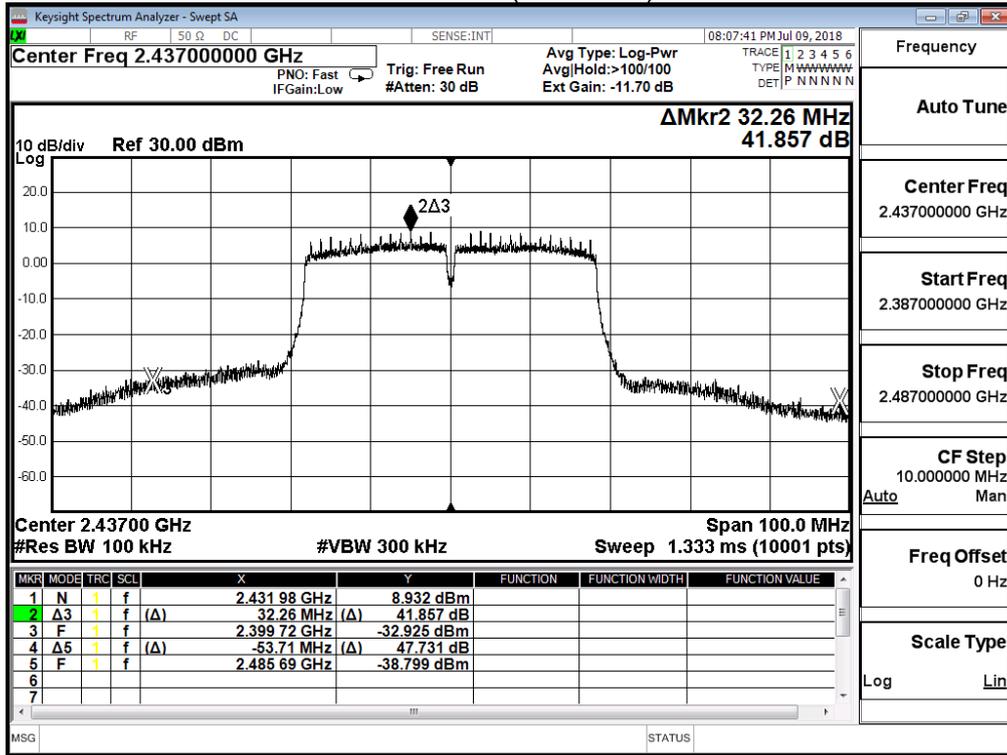
IEEE 802.11ac 40M (ANT 1)

Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	41.424	≥ 30	Pass
6	2437	41.857	≥ 30	Pass
9	2452	45.187	≥ 30	Pass

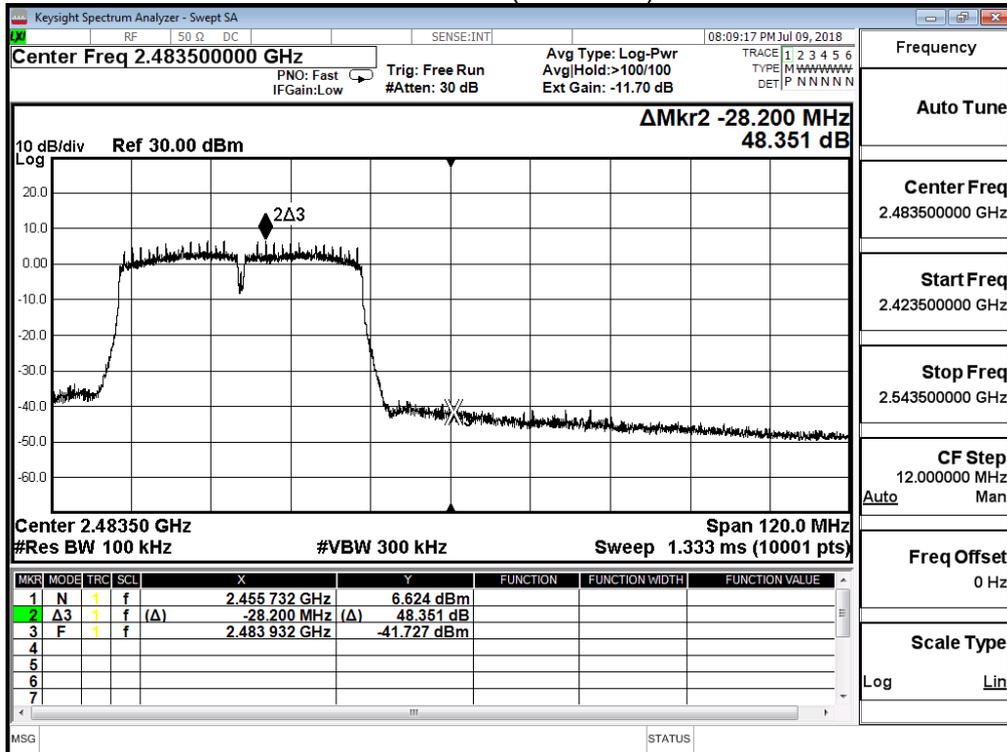
Channel 3 (2422MHz)



Channel 6 (2437MHz)

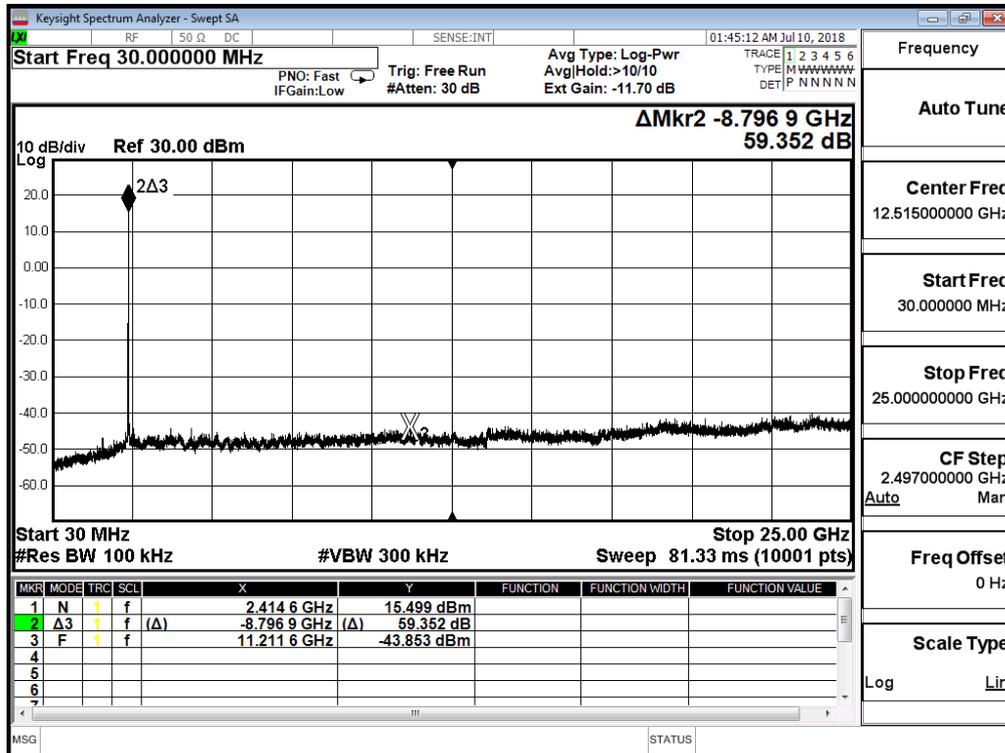


Channel 9 (2452MHz)

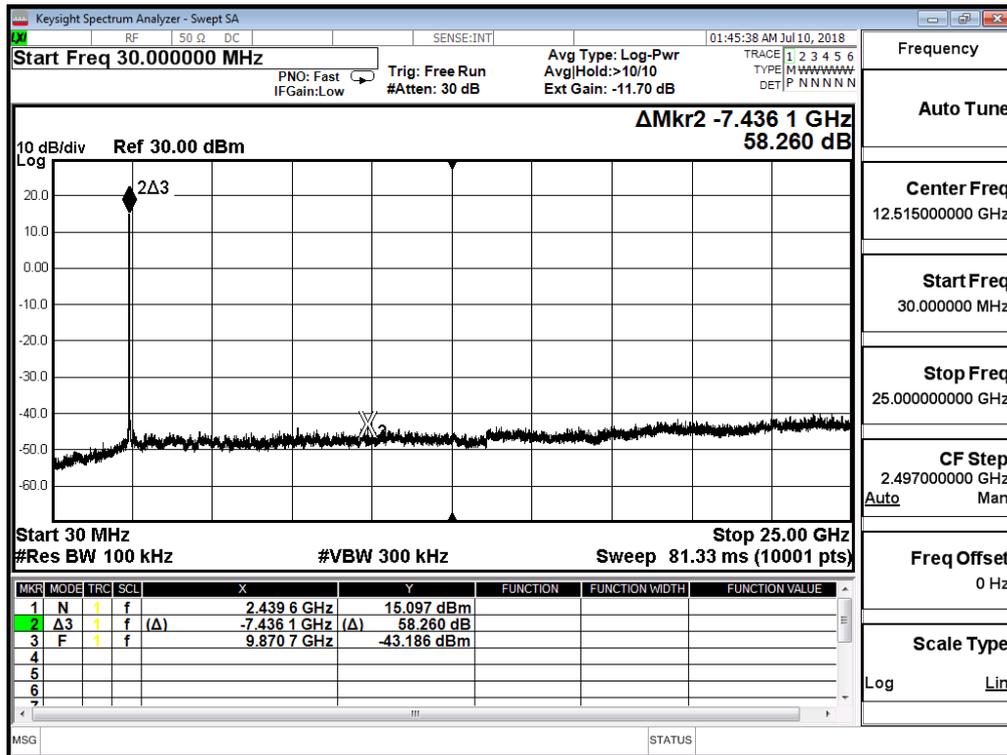


Product	Wireless-AC2200 Tri Band Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_CDD_ADP-45BW B		
Date of Test	2018/07/10	Test Site	SR10-H

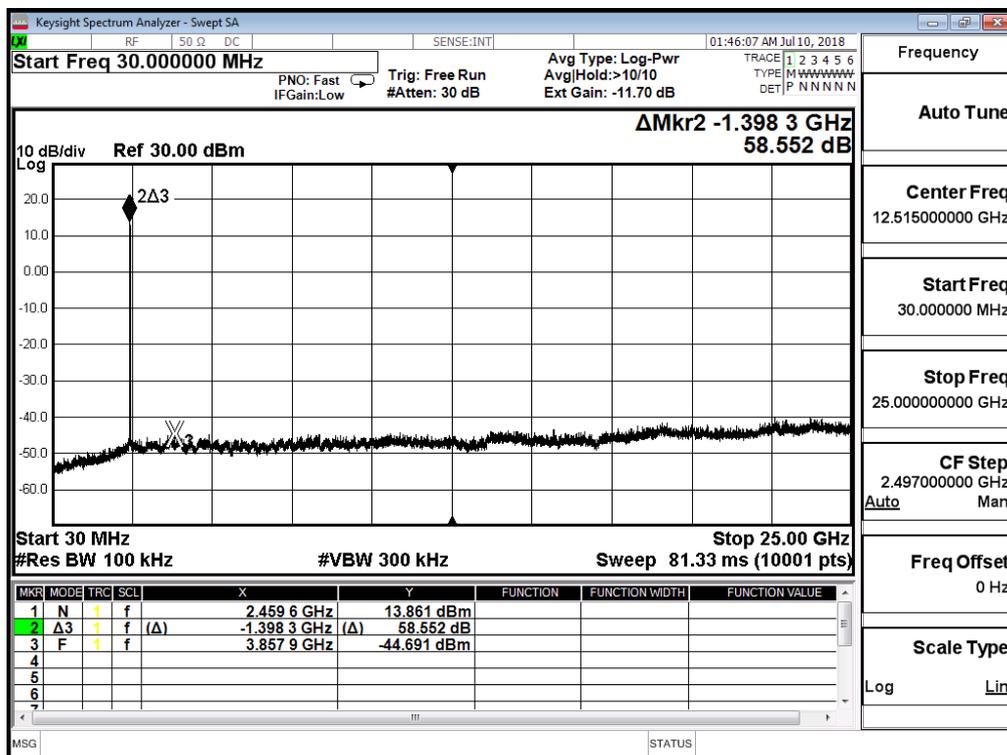
2412MHz (30MHz-25GHz)-802.11b-ANT 0



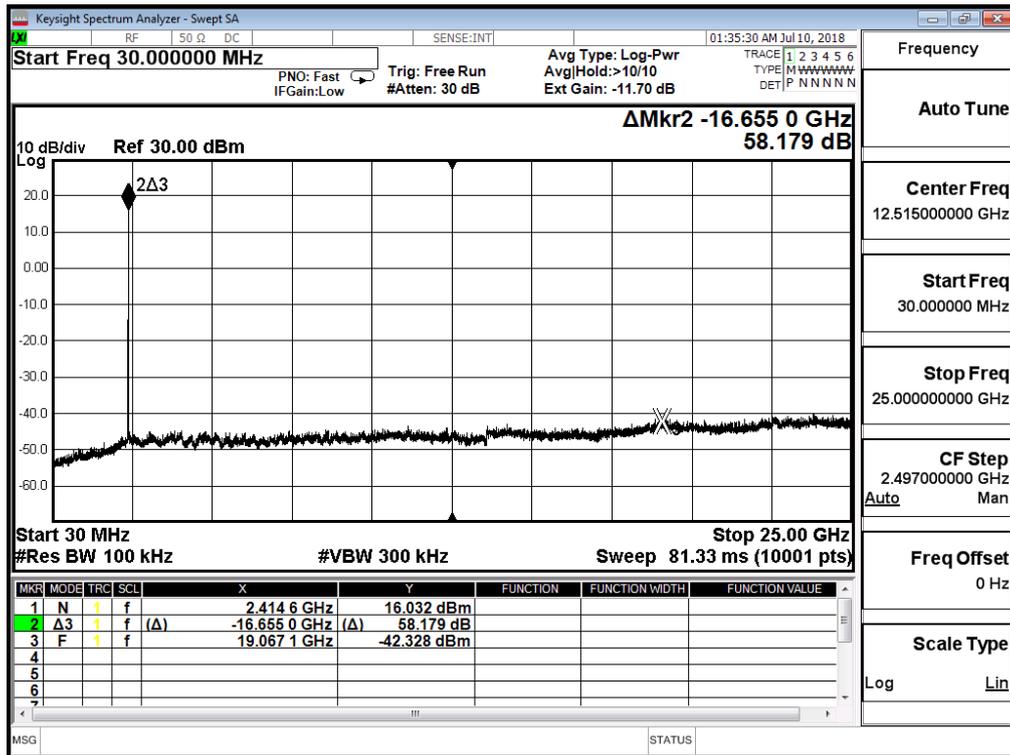
2437MHz (30MHz-25GHz)-802.11b-ANT 0



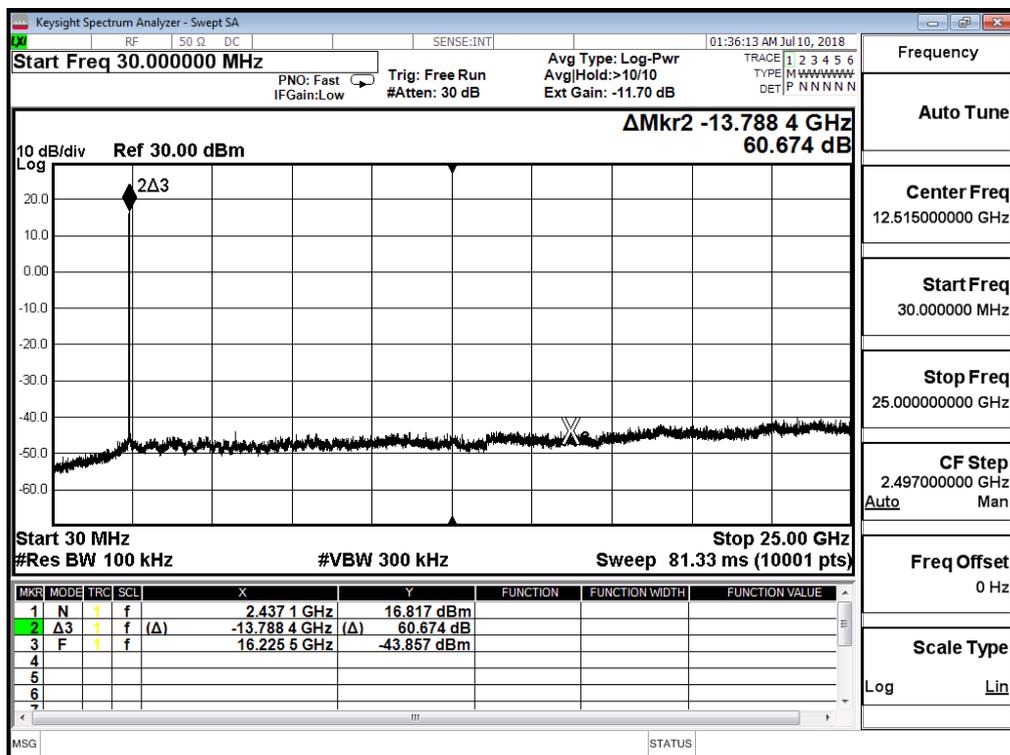
2462MHz (30MHz-25GHz)-802.11b-ANT 0



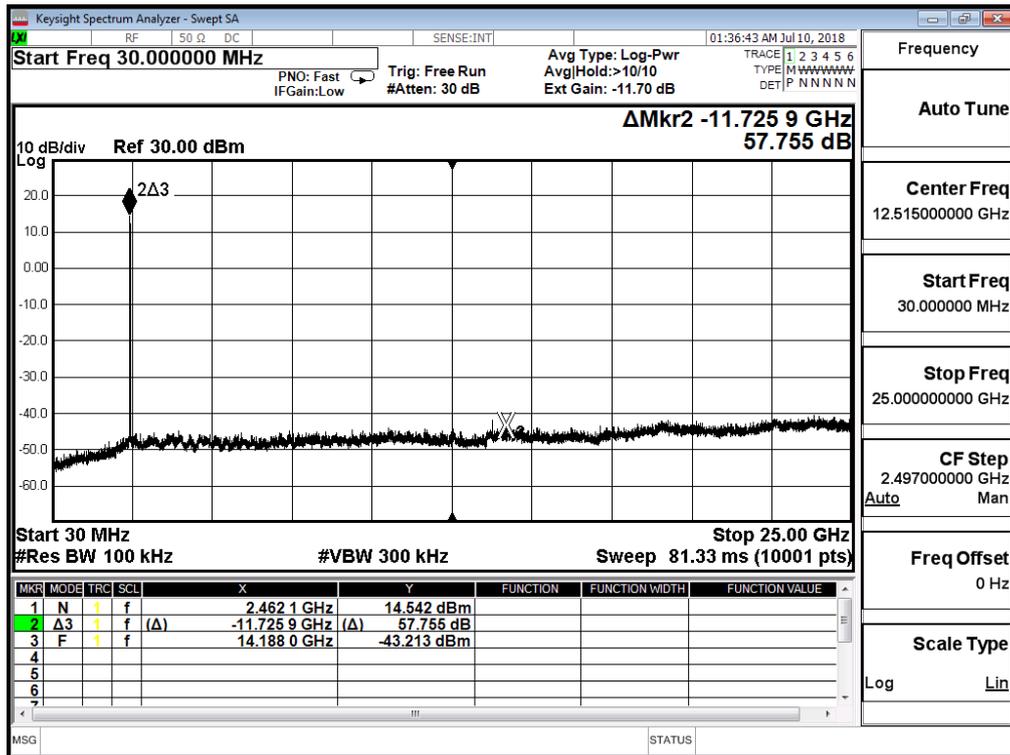
2412MHz (30MHz-25GHz)-802.11b-ANT 1



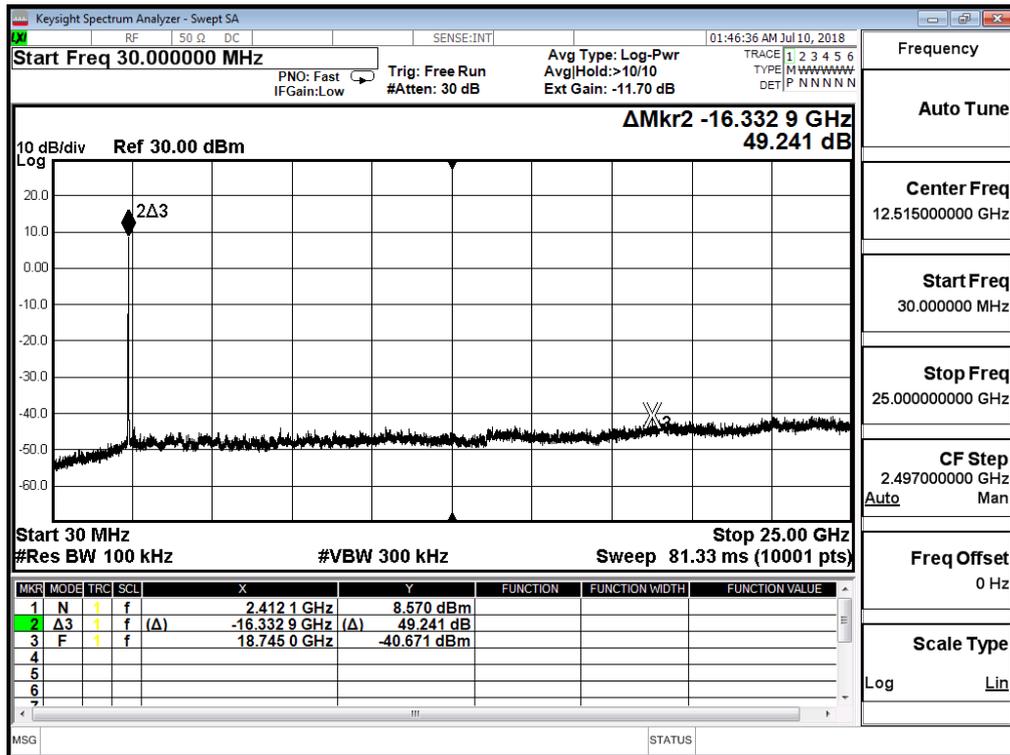
2437MHz (30MHz-25GHz)-802.11b-ANT 1



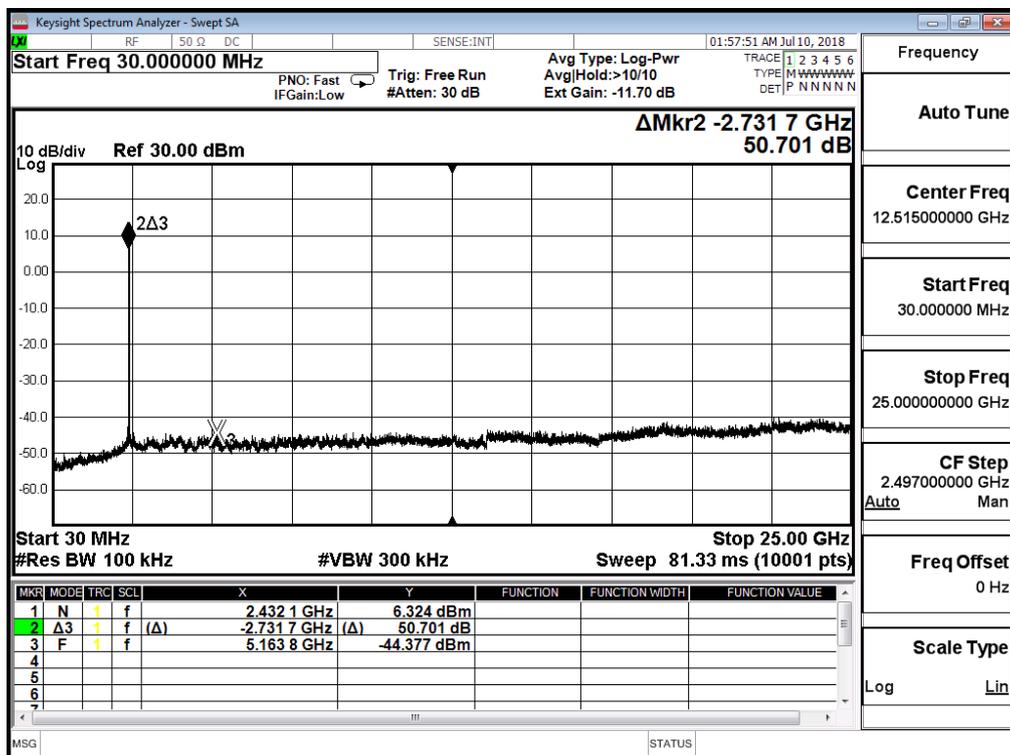
2462MHz (30MHz-25GHz)-802.11b-ANT 1



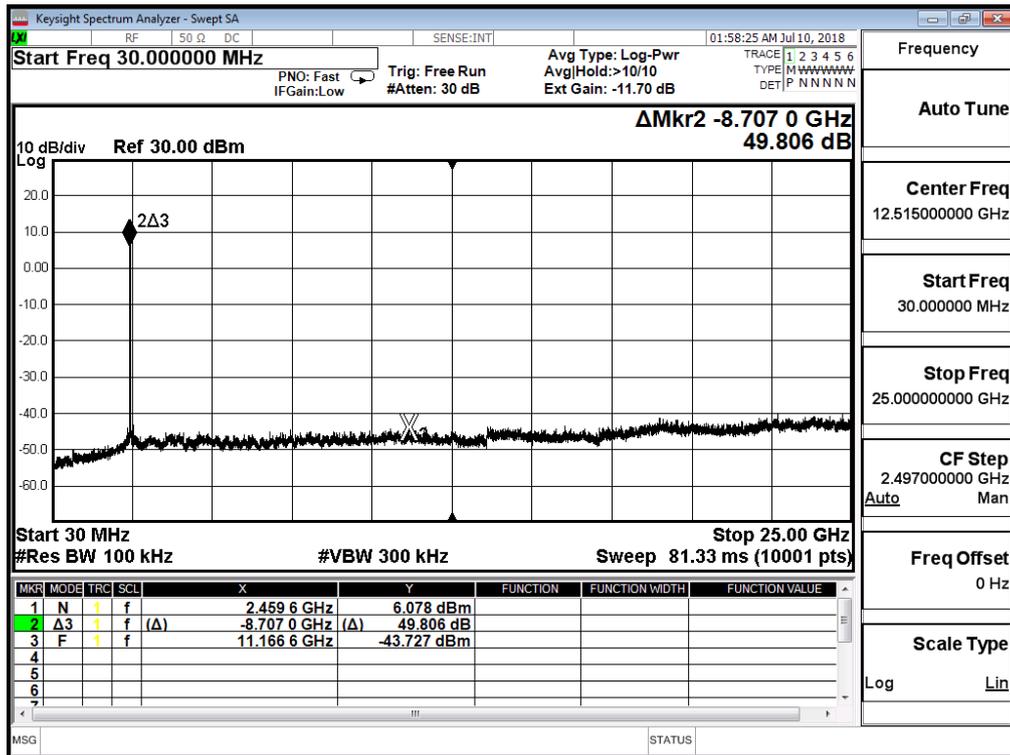
2412MHz (30MHz-25GHz)-802.11g-ANT 0



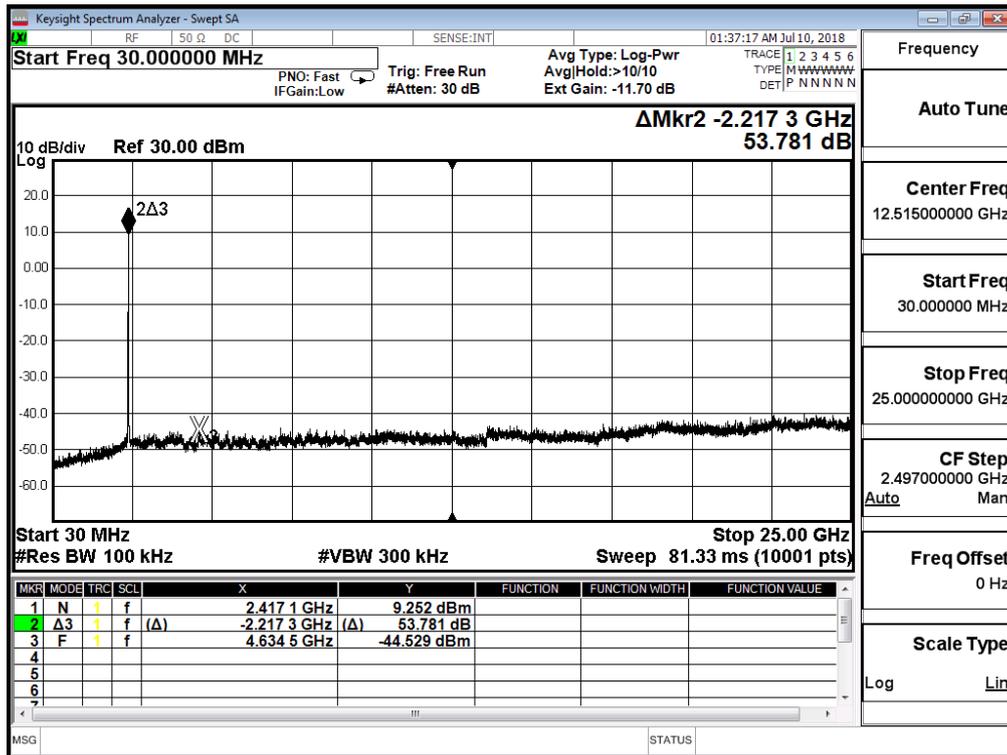
2437MHz (30MHz-25GHz)-802.11g-ANT 0



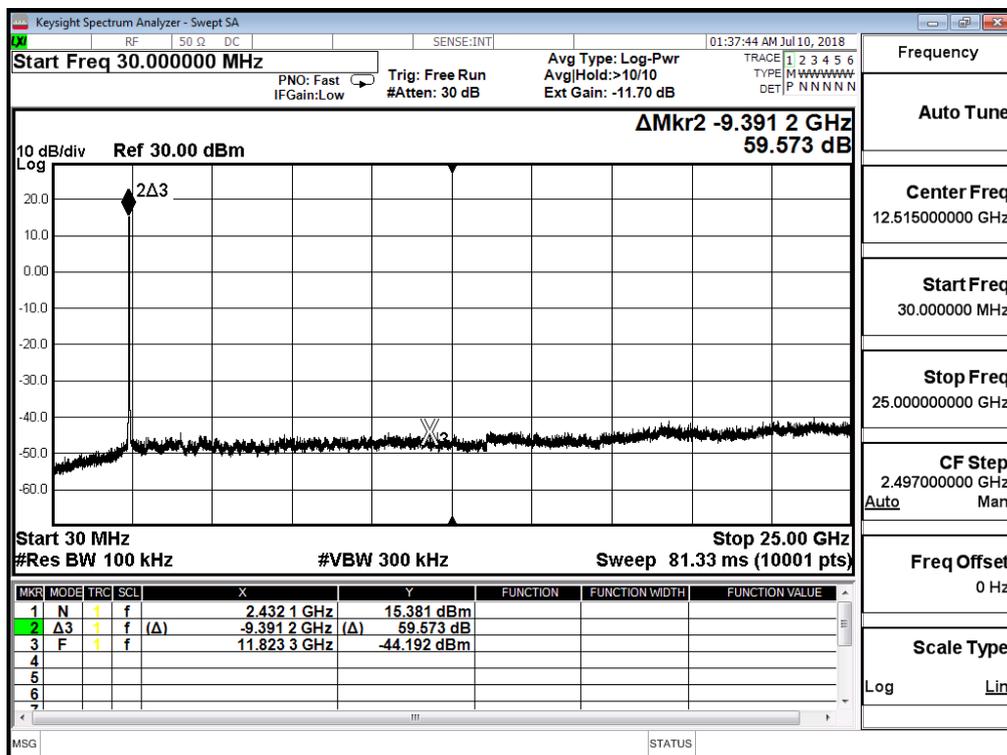
2462MHz (30MHz-25GHz)-802.11g-ANT 0



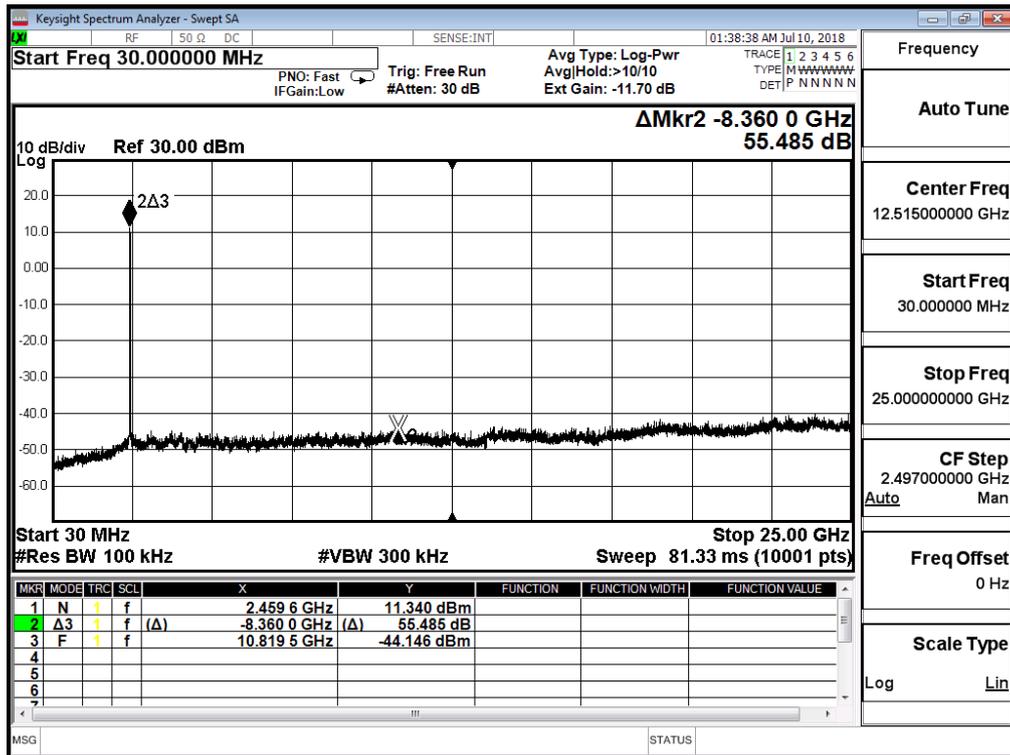
2412MHz (30MHz-25GHz)-802.11g-ANT 1



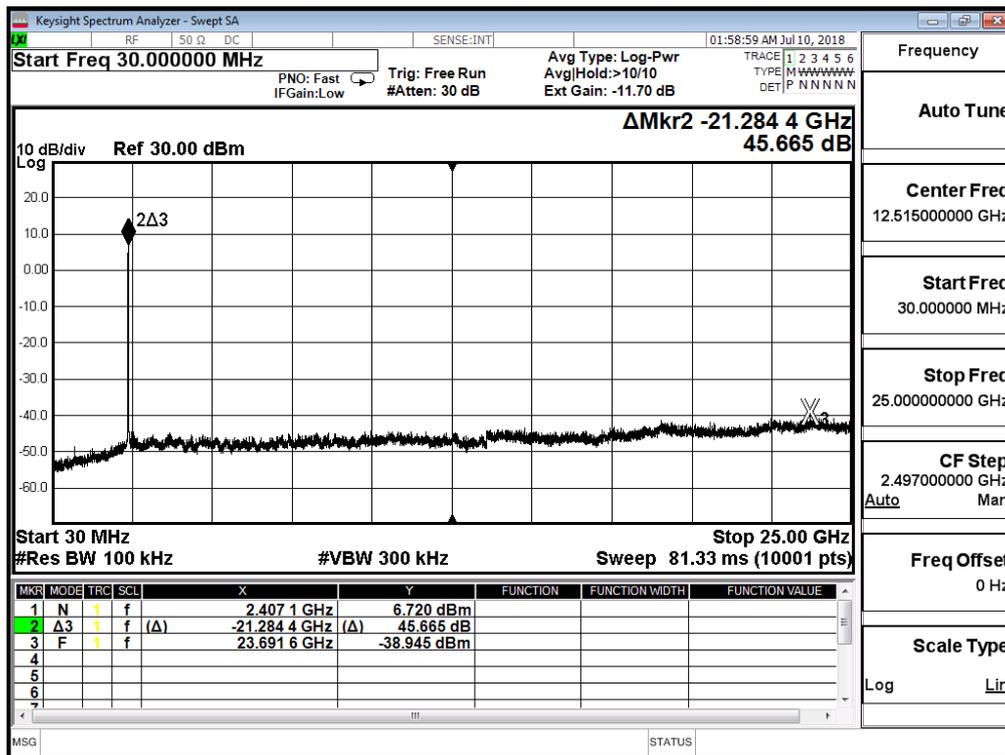
2437MHz (30MHz-25GHz)-802.11g-ANT 1



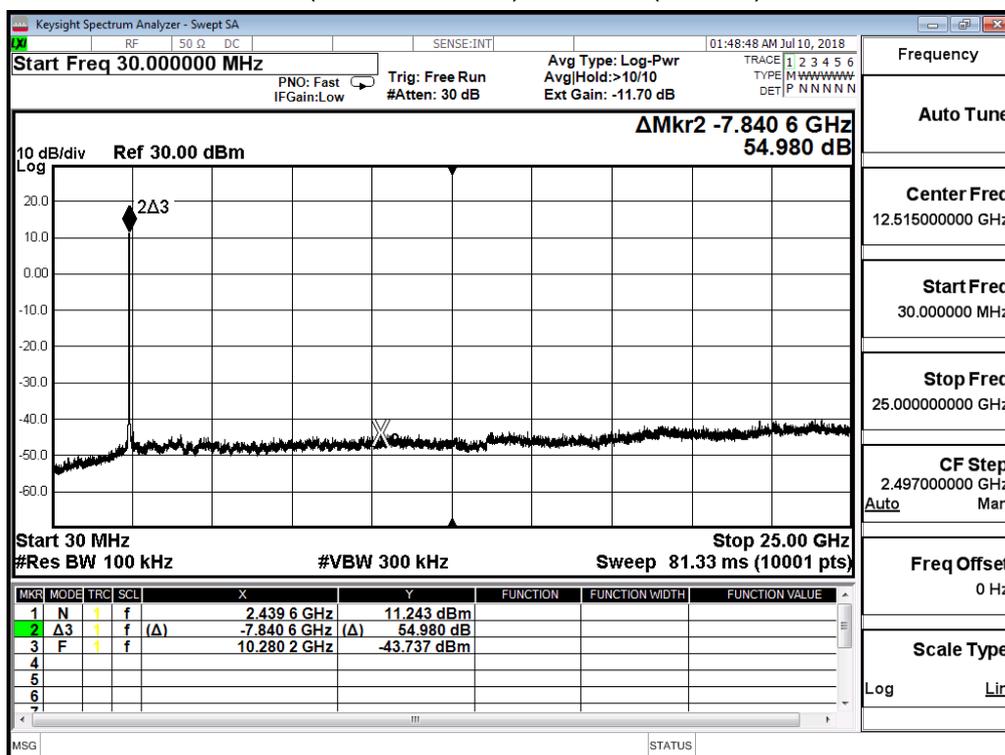
2462MHz (30MHz-25GHz)-802.11g-ANT 1



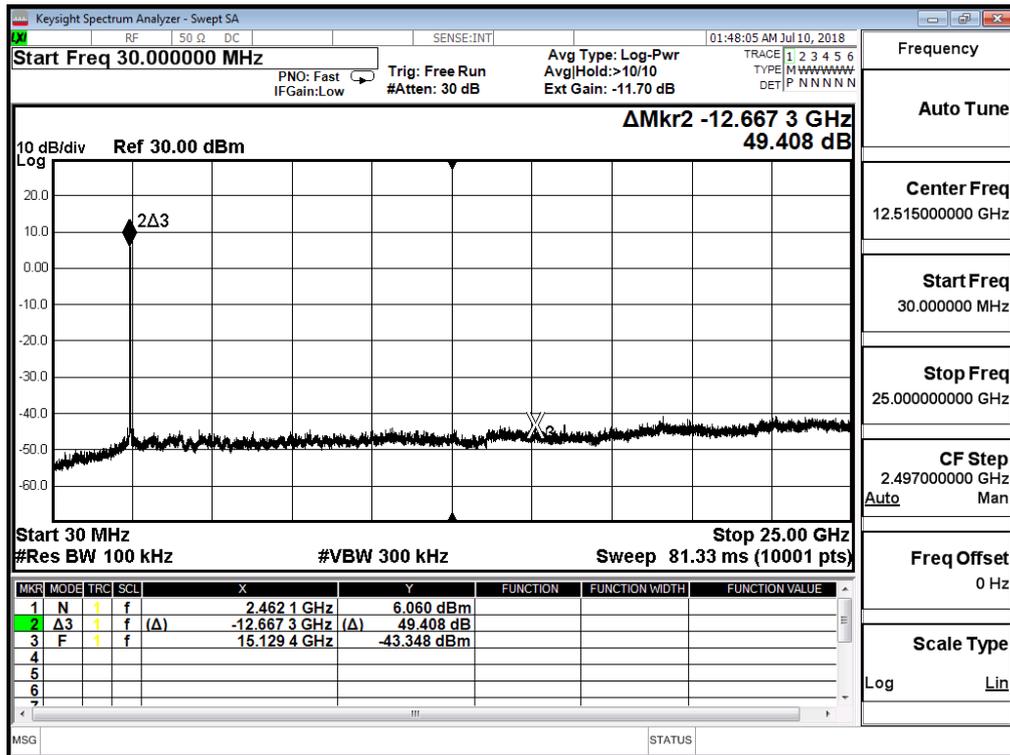
2412MHz (30MHz-25GHz)-802.11ac(20MHz)-ANT 0



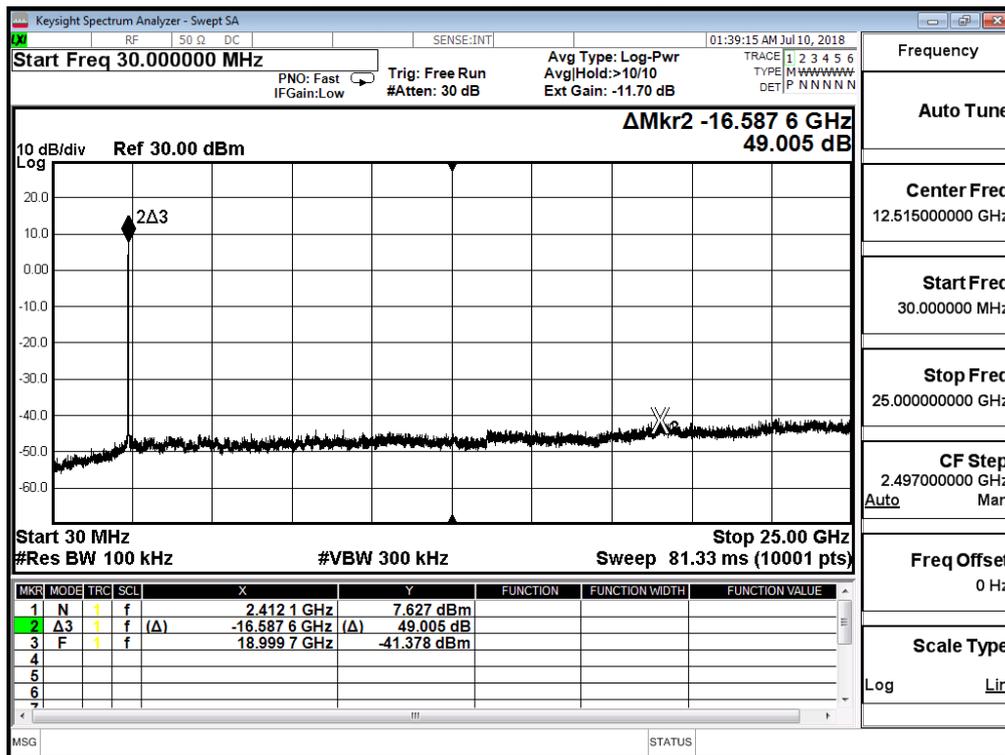
2437MHz (30MHz-25GHz)-802.11ac(20MHz)-ANT 0



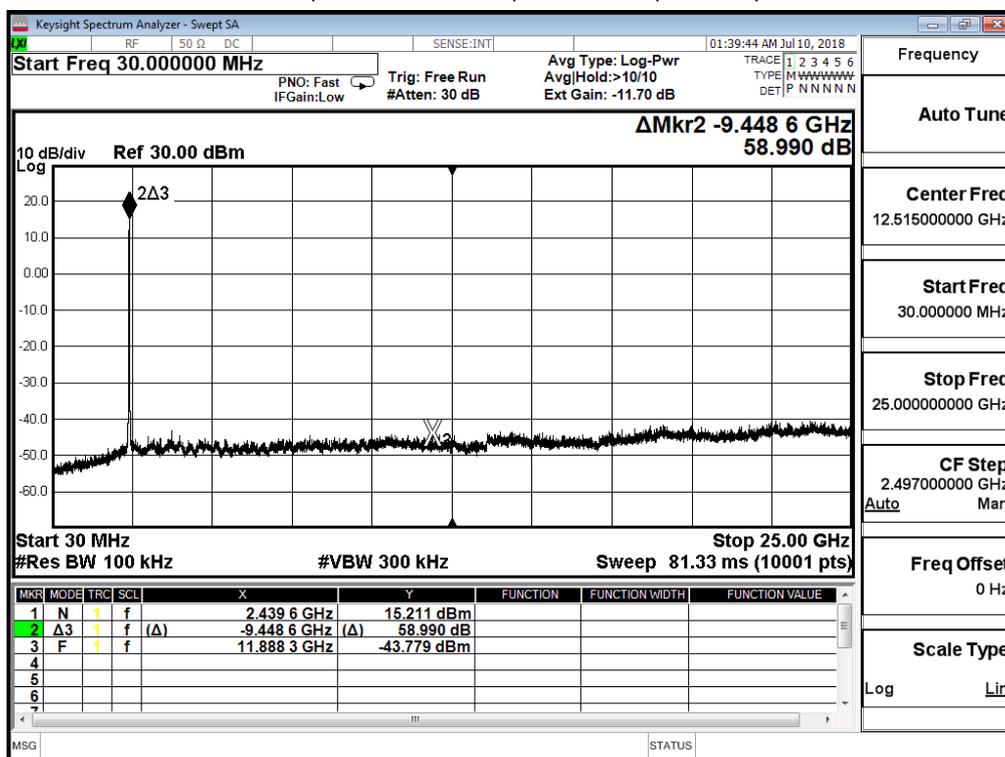
2462MHz (30MHz-25GHz)-802.11ac(20MHz)-ANT 0



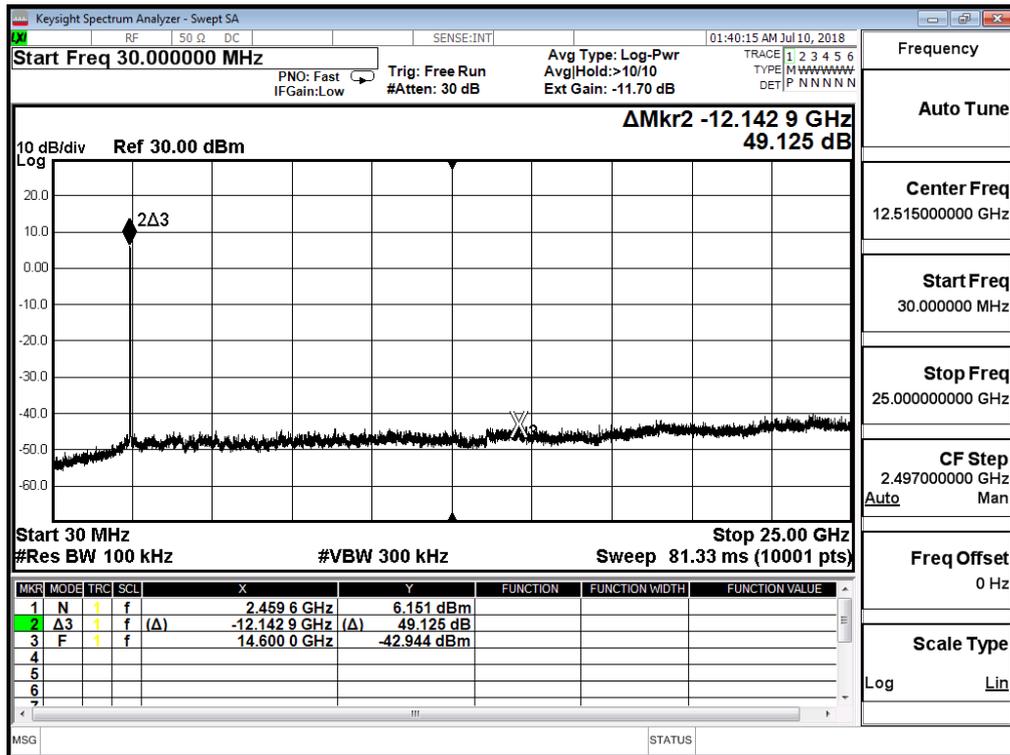
2412MHz (30MHz-25GHz)-802.11ac(20MHz)-ANT 1



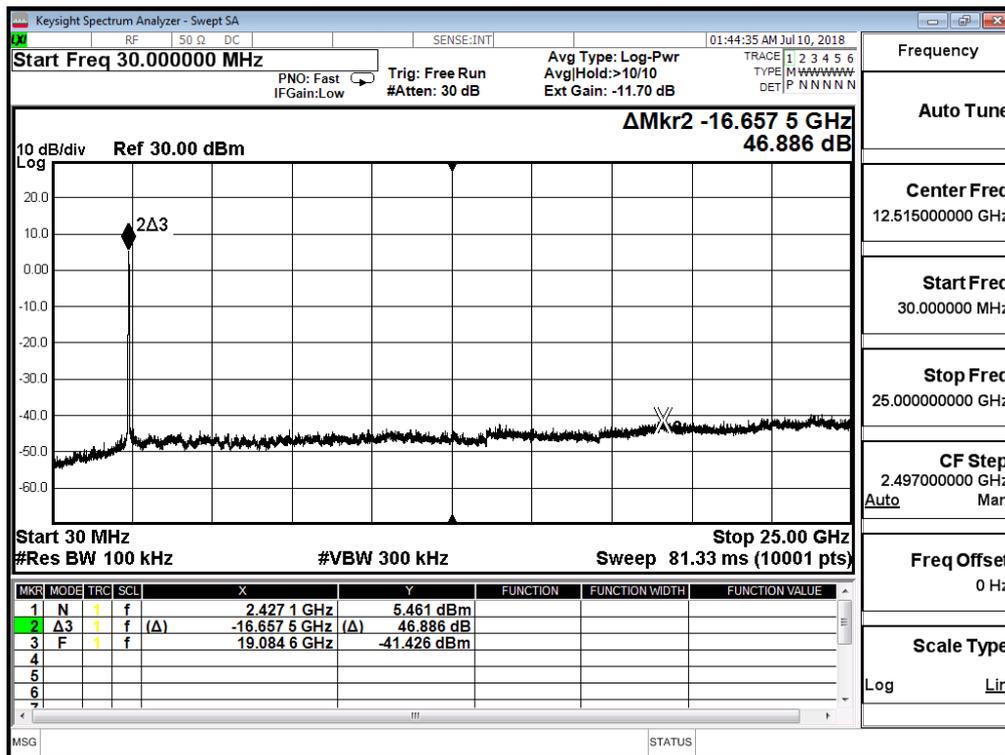
2437MHz (30MHz-25GHz)-802.11ac(20MHz)-ANT 1



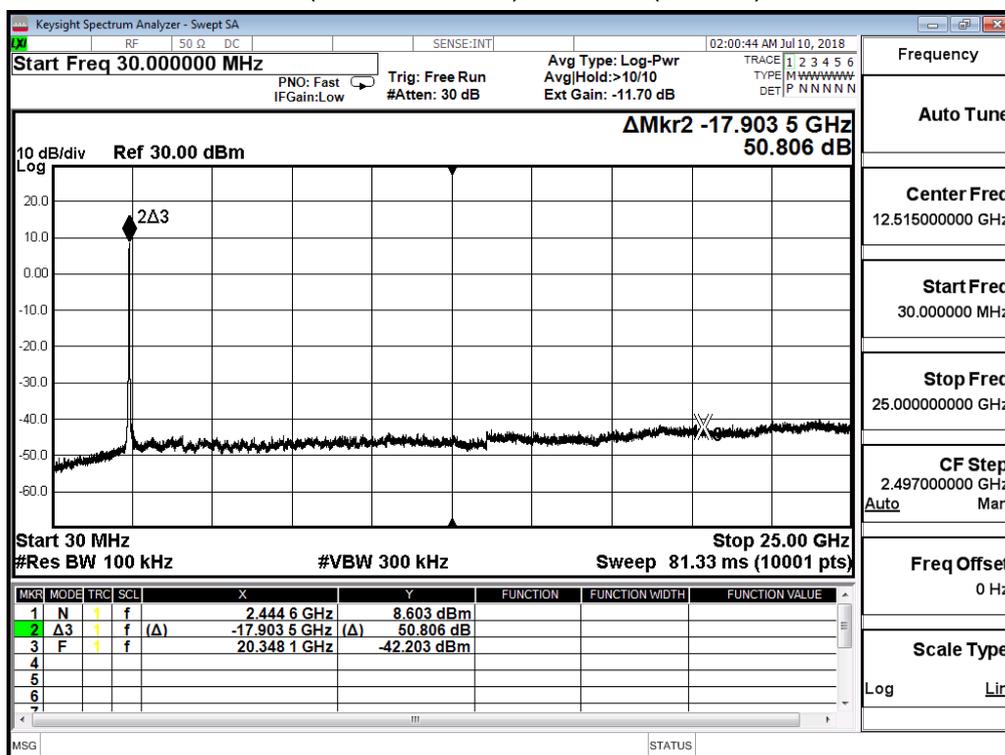
2462MHz (30MHz-25GHz)-802.11ac(20MHz)-ANT 1



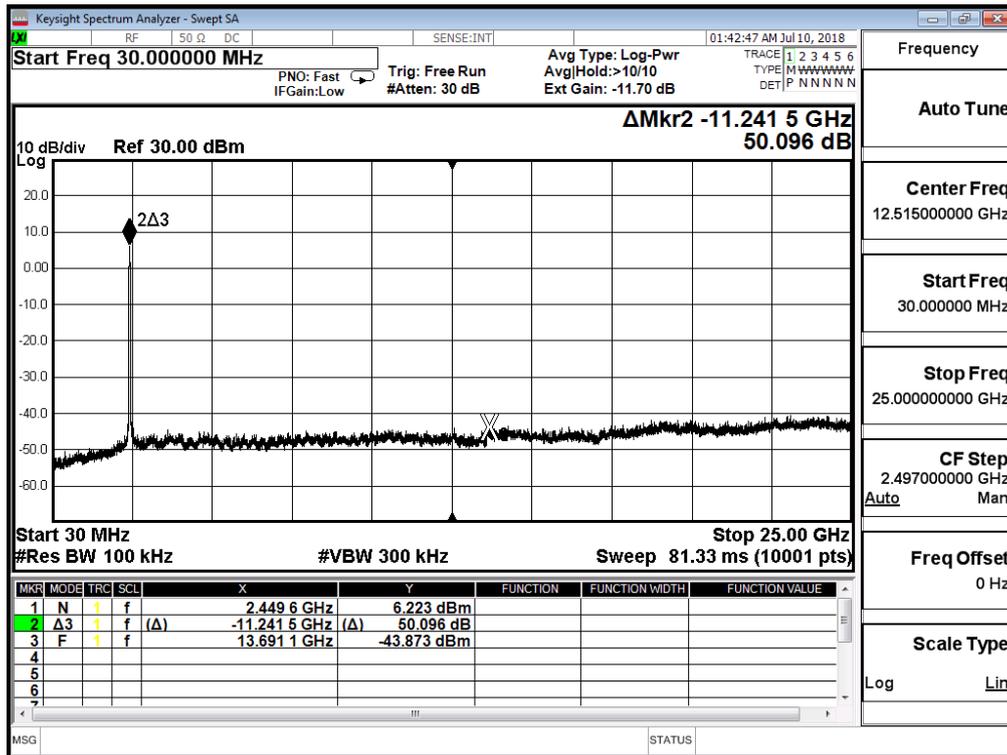
2422MHz (30MHz-25GHz)-802.11ac(40MHz)-ANT 0



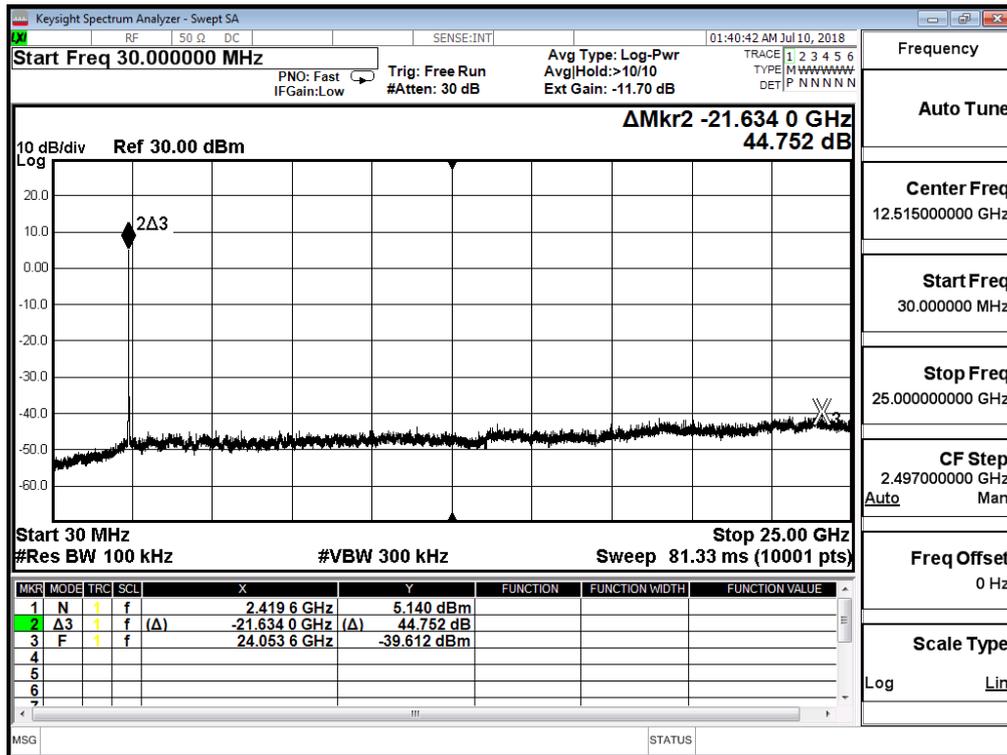
2437MHz (30MHz-25GHz)-802.11ac(40MHz)-ANT 0



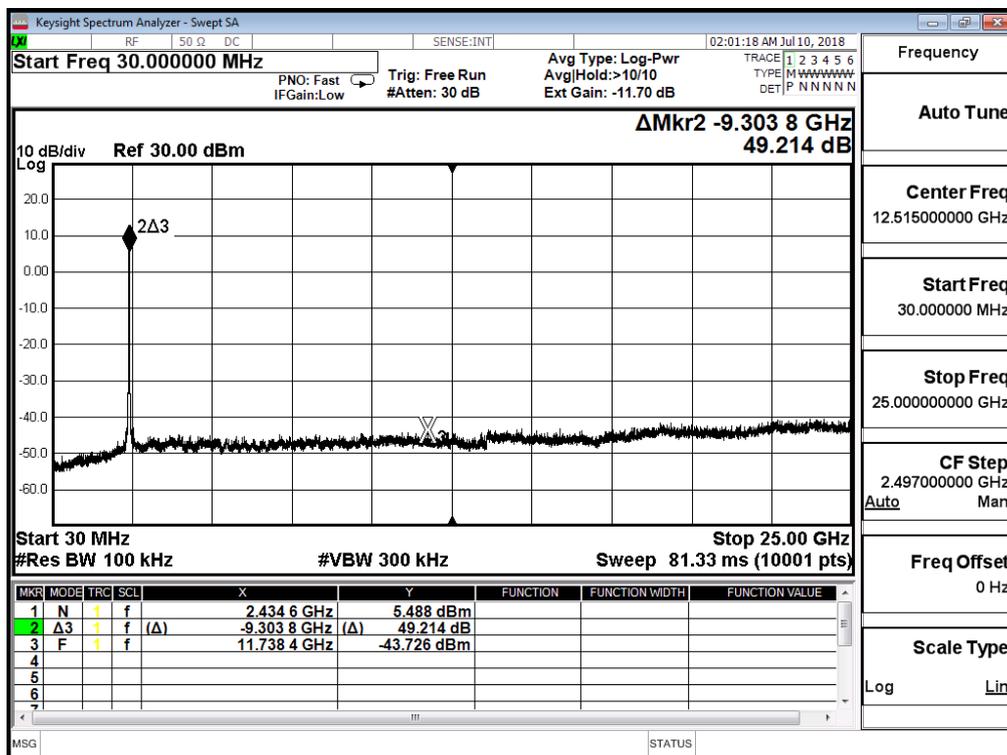
2452MHz (30MHz-25GHz)-802.11ac(40MHz)-ANT 0



2422MHz (30MHz-25GHz)-802.11ac(40MHz)-ANT 1



2437MHz (30MHz-25GHz)-802.11ac(40MHz)-ANT 1



2452MHz (30MHz-25GHz)-802.11ac(40MHz)-ANT 1

