

FCC Test Report

Product Name : Wireless-AC1900 Dual Band Gigabit Router

Trade Name : ASUS

Model No. : RT-AC68U V3

FCC ID : MSQ-RTACIB00

Applicant : ASUSTeK COMPUTER INC.

Address : 1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan

Date of Receipt : Mar. 30, 2020

Issued Date : Jun. 04, 2020

Report No. : 2030813R-RFUSP26V00

Report Version : V1.0



The test results relate only to the samples tested.

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Test Report Certification


Issued Date : Jun. 04, 2020
Report No.: 2030813R-RFUSP26V00



Product Name : Wireless-AC1900 Dual Band Gigabit Router
Applicant : ASUSTeK COMPUTER INC.
Address : 1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan
Manufacturer : ASUSTeK COMPUTER INC.
Model No. : RT-AC68U V3
FCC ID : MSQ-RTACIB00
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: 2019
ANSI C63.10: 2013
Laboratory Name : Hsin Chu Laboratory
Address : No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township,
Hsinchu County 310, Taiwan, R.O.C.
TEL: +886-3-582-8001 / FAX: +886-3-582-8958
Test Result : Complied

Documented By : 

(Demi Chang / Senior Engineering Adm. Specialist)

Tested By : 

(Scott Chang / Engineer)

Approved By : 

(Louis Hsu / Deputy Manager)

Revision History

Version	Description	Issued Date
V0.1-Draft	Initial issue of report	May 12, 2020
V0.2-Draft	Modify Maximum conducted output power Data	May 14, 2020
V0.3-Draft	Add Antenna 3: Walsin / RFDPA141000SBLB827	May 25, 2020
V0.4-Draft	Add Antenna 4: WHA YU / NE3-20069	Jun. 02, 2020
V1.0	Modify Antenna 4: WHA YU / C660-510509-A	Jun. 04, 2020

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1. General Information

1.1. EUT Description

Product Name	Wireless-AC1900 Dual Band Gigabit Router	
Trade Name	ASUS	
Model No.	RT-AC68U V3	
Frequency Range/ Channel Number	IEEE 802.11b/g IEEE 802.11n (20MHz)	2412~2462MHz / 11 Channels
	IEEE 802.11n (40MHz)	2422~2452MHz / 7 Channels
Type of Modulation	IEEE 802.11b	Direct Sequence Spread Spectrum
	IEEE 802.11g/n	Orthogonal Frequency Division Multiplexing
Data Speed	IEEE 802.11b	1, 2, 5.5, 11Mbps
	IEEE 802.11g	6, 12, 18, 24, 36, 48, 54Mbps
	IEEE 802.11n	Support a subset of the combination of GI, MCS 0~MCS 23 and bandwidth defined in 802.11n

Antenna Information				
Ant. No.	Model No.	Brand	Ant. Type	Ant. Gain
Antenna 1 (3pcs) (Main Source)	C660-510389-A	WHA YU	Dipole Antenna	2.4GHz: 1.33 dBi 5GHz B1: 1.57 dBi 5GHz B4: 1.85 dBi
Antenna 2 (3pcs) (Second Source)	RFDPA161300SBLB804	Walsin	Dipole Antenna	2.4GHz: 1.32dBi 5GHz B1: 1.00dBi 5GHz B4: 1.73dBi
Antenna 3 (3pcs)	RFDPA141000SBLB827	Walsin	Dipole Antenna	2.4GHz: 1.33dBi 5GHz B1: 1.57dBi 5GHz B4: 1.85dBi
Antenna 4 (3pcs)	C660-510509-A	WHA YU	Dipole Antenna	2.4GHz: 1.22 dBi 5GHz B1: 1.08 dBi 5GHz B4: 1.49 dBi

Accessories Information	
LAN Cable	Non-Shielded, 1.5m
Power Adapter 1 (ADP 1)	LEI / MU30B1120250-A1 I/P: 100-240V~50/60Hz 0.8A O/P : 12V $\overline{=}$ 2.5A Cable Out: Non-Shielded, 1.5m
Power Adapter 2 (ADP 2)	APD / WA-30P12FU I/P: 100-240V~50/60Hz 0.9A Max O/P : 12V $\overline{=}$ 2.5A Cable Out: Non-Shielded, 1.5m

ANT-TX / RX & Bandwidth

ANT-TX / RX	TX			RX		
	20MHz	40MHz	80MHz	20MHz	40MHz	80MHz
IEEE802.11b	✓			✓		
IEEE802.11g	✓			✓		
IEEE802.11n	✓	✓		✓	✓	

IEEE 802.11n

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

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

Table 1 – MCS parameters for TX Antenna number = 1

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

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

Table 2 – MCS parameters for TX Antenna number = 2

MCS Index	Modulation	R	N _{BPSCS}	N _{CBPS}		N _{DBPS}		Data Rate(Mb/s)			
				20MHz	40MHz	20MHz	40MHz	800ns GI		400ns GI	
								20MHz	40MHz	20MHz	40MHz
16	BPSK	1/2	1	156	324	78	162	19.5	40.5	21.7	45.0
17	QPSK	1/2	2	312	648	156	324	39.0	81.0	43.3	90.0
18	QPSK	3/4	2	312	648	234	486	58.5	121.5	65.0	135.0
19	16-QAM	1/2	4	624	1296	312	648	78.0	162.0	86.7	180.0
20	16-QAM	3/4	4	624	1296	468	972	117.0	243.0	130.0	270.0
21	64-QAM	2/3	6	936	1944	624	1296	156.0	324.0	173.3	360.0
22	64-QAM	3/4	6	936	1944	702	1458	175.5	364.5	195.0	405.0
23	64-QAM	5/6	6	936	1944	780	1620	195.0	405.0	216.7	450.0

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

Table 3 – MCS parameters for TX Antenna number = 3

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

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

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

IEEE 802.11n (40MHz)

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

Note:

1. This device including 2.4GHz b/g/n and 5GHz a/n/ac 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.
4. The EUT description is from the customer declaration.

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 mode_CDD_AD P 1 Mode 2: Transmit mode_CDD_AD P 2 Mode 3: Transmit mode_BF_AD P 1 Mode 4: Transmit mode_BF_AD P 2
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Test Items	Modulation	Channel	Antenna	Result
Conducted Emission	11n(40MHz)	6	0+1+2	Complies
Maximum peak conducted output power	11b/g	1/6/11	0+1+2	Complies
	11n(20MHz)	1/6/11	0+1+2	Complies
	11n(40MHz)	3/6/9	0+1+2	Complies
Radiated Emission	11b/g	1/6/11	0+1+2	Complies
	11n(20MHz)	1/6/11	0+1+2	Complies
	11n(40MHz)	3/6/9	0+1+2	Complies
RF antenna conducted test	11b/g	1/6/11	0/1/2	Complies
	11n(20MHz)	1/6/11	0/1/2	Complies
	11n(40MHz)	3/6/9	0/1/2	Complies
Radiated Emission Band Edge	11b/g	1/6/11	0+1+2	Complies
	11n(20MHz)	1/6/11	0+1+2	Complies
	11n(40MHz)	3/6/9	0+1+2	Complies
DTS Bandwidth	11b/g	1/6/11	0/1/2	Complies
	11n(20MHz)	1/6/11	0/1/2	Complies
	11n(40MHz)	3/6/9	0/1/2	Complies
Occupied Bandwidth	11b/g	1/6/11	0/1/2	Complies
	11n(20MHz)	1/6/11	0/1/2	Complies
	11n(40MHz)	3/6/9	0/1/2	Complies
Power Density	11b/g	1/6/11	0+1+2	Complies
	11n(20MHz)	1/6/11	0+1+2	Complies
	11n(40MHz)	3/6/9	0+1+2	Complies

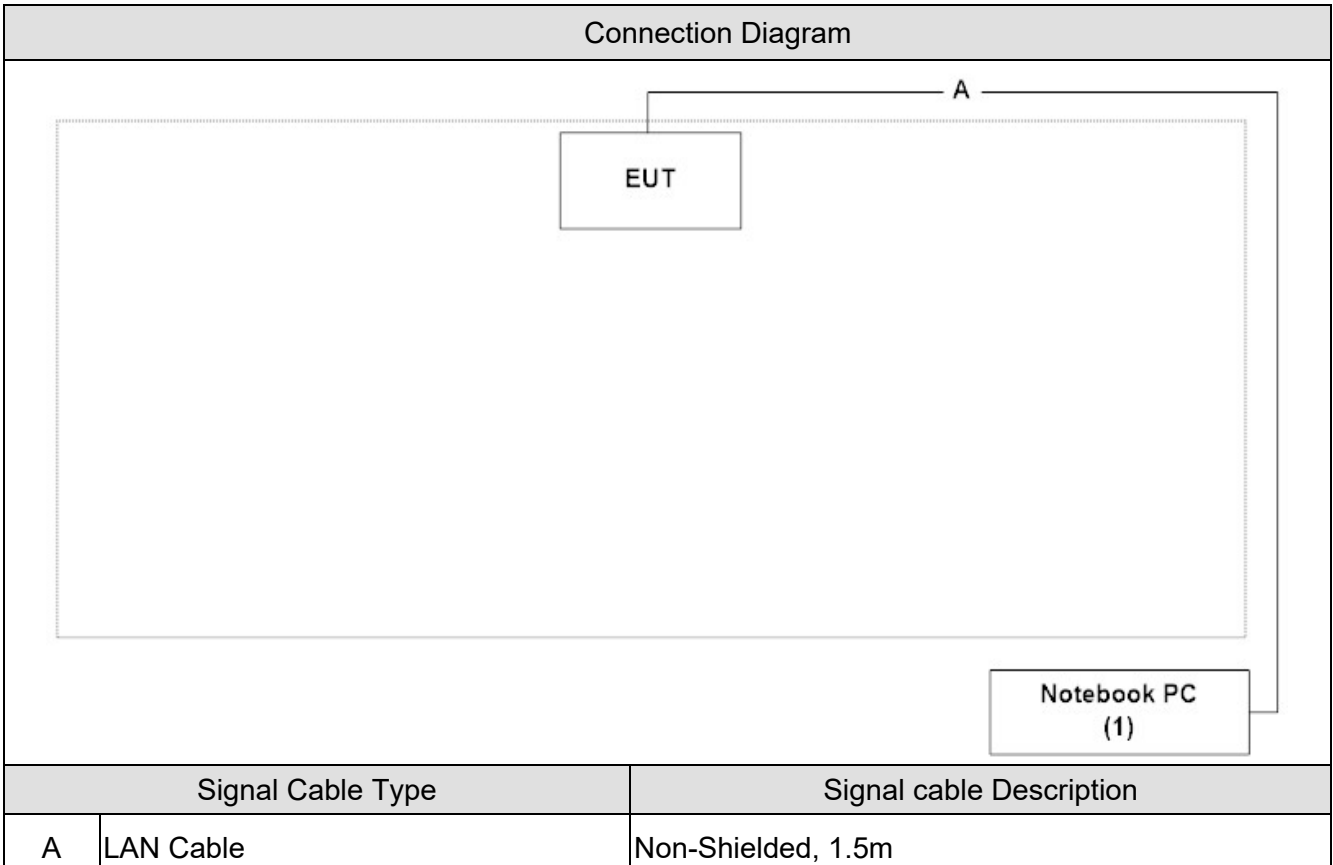
Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

1.3. Tested System Details

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

Product	Manufacturer	Model No.	Serial No.	FCC ID	Power Cord
1 Notebook PC	DELL	PP04X	DR598 A00	DoC	Non-Shielded, 1.8m

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 “MTool” on the laptop.
3	Configure the test mode, the test channel, and the data rate.
4	Press “Start TX” to start the continuous receiving.
5	Verify that the EUT works properly.

1.6. Test Facility

Ambient conditions in the laboratory:

Items	Test Item	Required	Test Site
Temperature (°C)	FCC PART 15 C 15.207	15 - 35	3
Humidity (%RH)	Conducted Emission	25 - 75	
Temperature (°C)	FCC PART 15 C 15.247	15 - 35	3
Humidity (%RH)	Maximum peak conducted output power	25 - 75	
Temperature (°C)	FCC PART 15 C 15.247	15 - 35	2
Humidity (%RH)	Radiated Emission	25 - 75	
Temperature (°C)	FCC PART 15 C 15.247	15 - 35	3
Humidity (%RH)	RF antenna conducted test	25 - 75	
Temperature (°C)	FCC PART 15 C 15.247	15 - 35	2
Humidity (%RH)	Radiated Emission Band Edge	25 - 75	
Temperature (°C)	FCC PART 15 C 15.247	15 - 35	3
Humidity (%RH)	Occupied Bandwidth & DTS Bandwidth	25 - 75	
Temperature (°C)	FCC PART 15 C 15.247	15 - 35	3
Humidity (%RH)	Power Density	25 - 75	

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

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

Test Laboratory	DEKRA Testing and Certification Co., Ltd.
Address	<ol style="list-style-type: none"> No. 75-2, 3rd Lin, WangYe Keng, Yonghxing Tsuen, Qionglin Shiang, Hsinchu County 307, Taiwan, R.O.C. No.372, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C. No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C.
Phone number	<ol style="list-style-type: none"> +886-3-592-8858 +886-3-582-8001 +886-3-582-8001
Fax number	<ol style="list-style-type: none"> +886-3-592-8859 +886-3-582-8958 +886-3-582-8958
Email address	info.tw@dekra.com
Website	http://www.dekra.com.tw

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	2020/01/08	2021/01/07
Test Receiver	R&S	ESCS 30	836858/022	2020/02/25	2021/02/24
LISN	R&S	ENV216	100092	2019/07/09	2020/07/08

Maximum peak conducted output power / SR12-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
High Speed Peak Power Meter Dual Input	Anritsu	ML2496A	1602004	2019/12/02	2020/12/01
Pulse Power Sensor	Anritsu	MA2411B	1531043	2019/12/02	2020/12/01
Pulse Power Sensor	Anritsu	MA2411B	1531044	2019/12/02	2020/12/01
Power Meter	Keysight	8990B	MY51000248	2019/05/21	2020/05/20
Power Sensor	Keysight	N1923A	MY57240005	2019/05/21	2020/05/20

Radiated Emission / CB2-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal Analyzer	R&S	FSVA40	101455	2019/10/21	2020/10/20
Signal & Spectrum Analyzer	R&S	FSV40	101049	2020/03/30	2021/03/29
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2020/02/21	2021/02/20
Bilog Antenna	Teseq	CBL6112D	23191	2019/06/17	2020/06/16
Horn Antenna	Schwarzbeck	BBHA 9120D	639	2019/05/28	2020/05/27
Horn Antenna	Schwarzbeck	BBHA 9170	202	2019/12/27	2020/12/26
Pre-Amplifier	DEKRA	AP-025C	12183122	2019/09/24	2020/09/23
Pre-Amplifier	EMCI	EMC11830I	980366	2019/12/03	2020/12/02
Pre-Amplifier	DEKRA	AP-400C	201801231	2019/12/03	2020/12/02
Horn Antenna	Schwarzbeck	BBHA 9120D	01656	2019/10/25	2020/10/24
Band Reject Filter	Micro-Tronics	BRM50702	G192	2020/03/09	2021/03/08
Signal Analyzer	R&S	FSV40	101435	2019/07/08	2020/07/07
Coaxial Cable(16m)	Huber+Suhner	SF104	CB2-H	2019/07/25	2020/07/24
EMI system	DEKRA	Version 1.0	CB2-H	NA	NA

RF antenna conducted test / SR12-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Keysight	N9030B	MY57140404	2019/06/18	2020/06/17
Spectrum Analyzer	Keysight	N9010B	MY57110159	2020/04/15	2021/04/14
Spectrum Analyzer	Agilent	N9010A	US47140172	2019/06/28	2020/06/27
Signal & Spectrum Analyzer	R&S	FSV40	101049	2020/03/30	2021/03/29

Radiated Emission Band Edge / CB2-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal Analyzer	R&S	FSVA40	101455	2019/10/21	2020/10/20
Signal & Spectrum Analyzer	R&S	FSV40	101049	2020/03/30	2021/03/29
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2020/02/21	2021/02/20
Bilog Antenna	Teseq	CBL6112D	23191	2019/06/17	2020/06/16
Horn Antenna	Schwarzbeck	BBHA 9120D	639	2019/05/28	2020/05/27
Horn Antenna	Schwarzbeck	BBHA 9170	202	2019/12/27	2020/12/26
Pre-Amplifier	DEKRA	AP-025C	12183122	2019/09/24	2020/09/23
Pre-Amplifier	EMCI	EMC11830I	980366	2019/12/03	2020/12/02
Pre-Amplifier	DEKRA	AP-400C	201801231	2019/12/03	2020/12/02
Horn Antenna	Schwarzbeck	BBHA 9120D	01656	2019/10/25	2020/10/24
Band Reject Filter	Micro-Tronics	BRM50702	G192	2020/03/09	2021/03/08
Signal Analyzer	R&S	FSV40	101435	2019/07/08	2020/07/07
Coaxial Cable(16m)	Huber+Suhner	SF104	CB2-H	2019/07/25	2020/07/24
EMI system	DEKRA	Version 1.0	CB2-H	NA	NA

DTS Bandwidth / SR12-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Keysight	N9030B	MY57140404	2019/06/18	2020/06/17
Spectrum Analyzer	Keysight	N9010B	MY57110159	2020/04/15	2021/04/14
Spectrum Analyzer	Agilent	N9010A	US47140172	2019/06/28	2020/06/27
Signal & Spectrum Analyzer	R&S	FSV40	101049	2020/03/30	2021/03/29

Occupied Bandwidth / SR12-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Keysight	N9030B	MY57140404	2019/06/18	2020/06/17
Spectrum Analyzer	Keysight	N9010B	MY57110159	2020/04/15	2021/04/14
Spectrum Analyzer	Agilent	N9010A	US47140172	2019/06/28	2020/06/27
Signal & Spectrum Analyzer	R&S	FSV40	101049	2020/03/30	2021/03/29

Power Density / SR12-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Keysight	N9030B	MY57140404	2019/06/18	2020/06/17
Spectrum Analyzer	Keysight	N9010B	MY57110159	2020/04/15	2021/04/14
Spectrum Analyzer	Agilent	N9010A	US47140172	2019/06/28	2020/06/27
Signal & Spectrum Analyzer	R&S	FSV40	101049	2020/03/30	2021/03/29

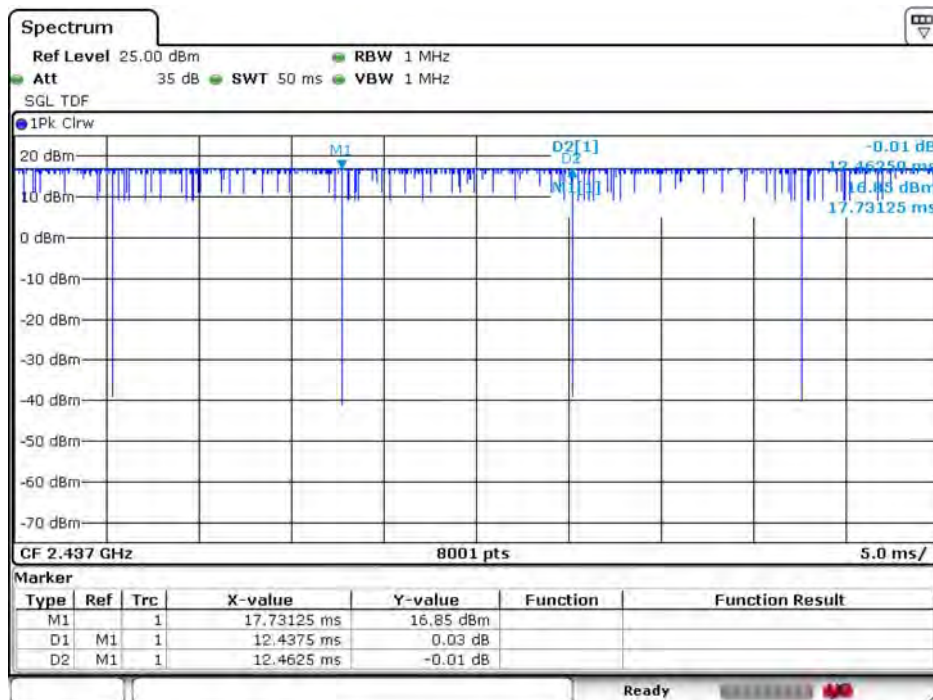
Note: All equipment upon which need to calibrated are with calibration period of 1 year.

1.8. Duty Cycle

Mode 1: Transmit mode_CDD_AD P 1

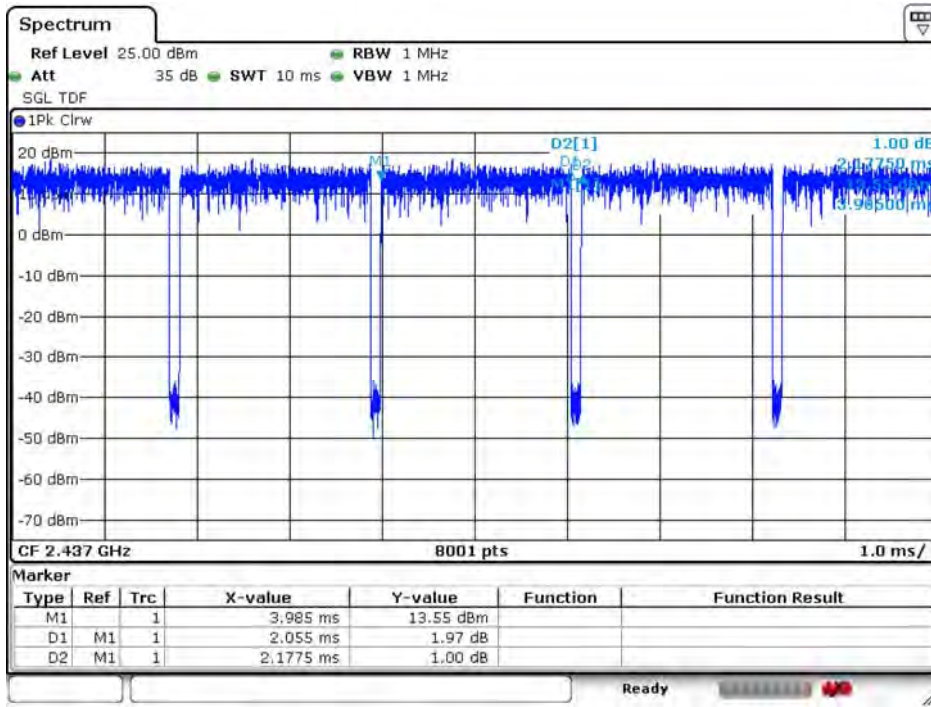
Mode	On Time (ms)	On+Off Time (ms)	Duty Cycle (%)	Duty Factor(dB) linear voltage	Duty Factor(dB) Power	1/T Minimum VBW (kHz)
11b	12.438	12.463	99.80%	0.017442	0.01	0.010
11g	2.055	2.178	94.37%	0.502927	0.25	0.487
HT20	1.914	1.963	97.52%	0.218461	0.11	0.522
HT40	0.944	0.992	95.20%	0.427158	0.21	1.059

802.11b



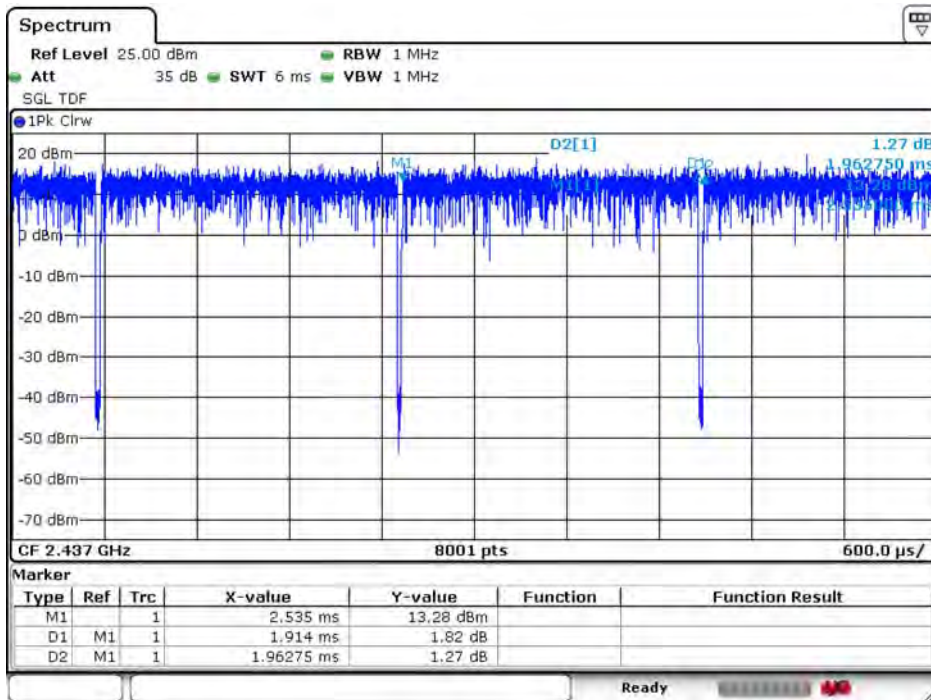
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802.11g



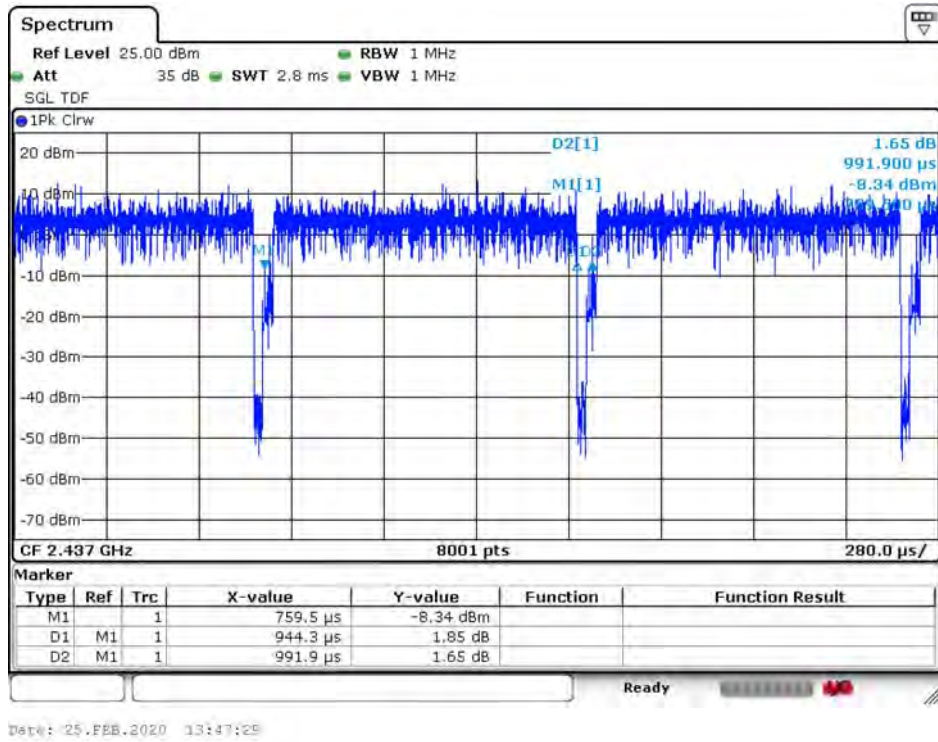
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802.11n (20M)



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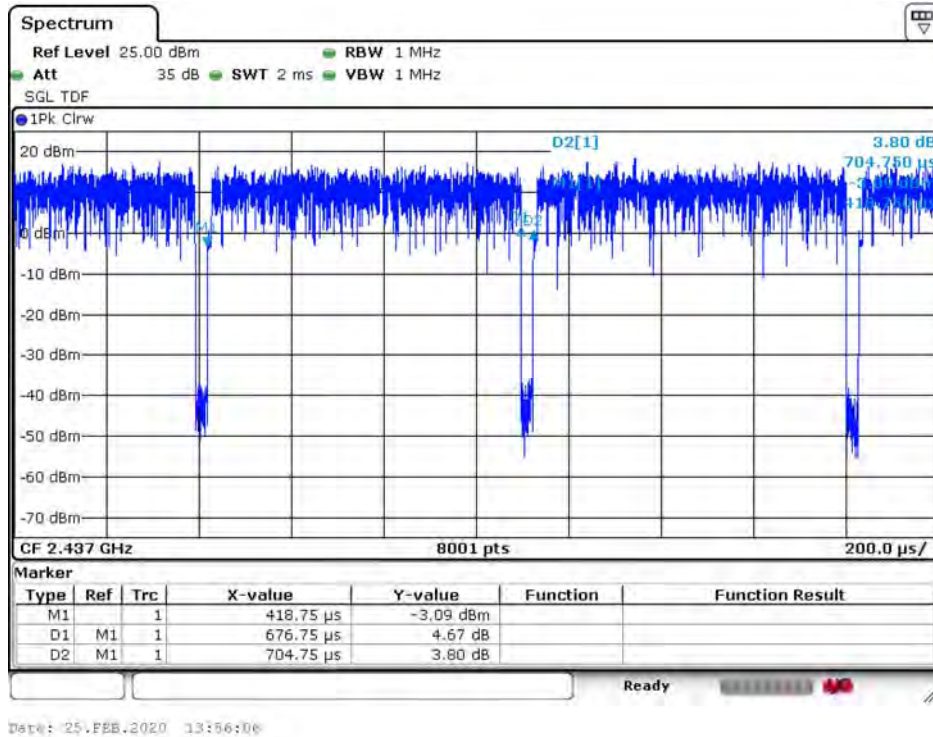
802.11n (40M)



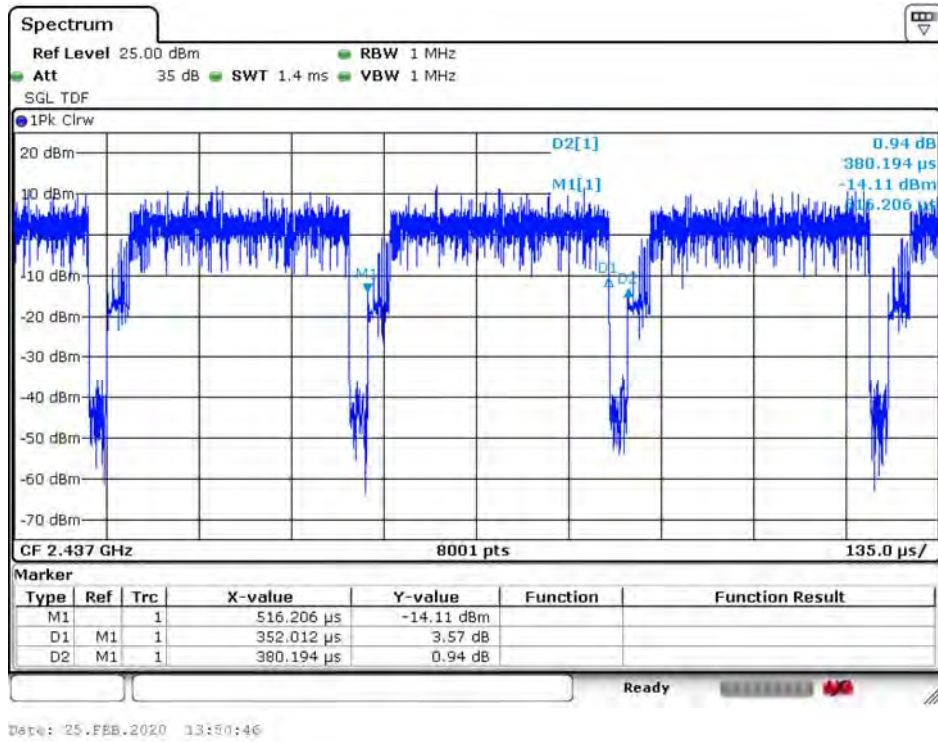
Mode 3: Transmit mode_BF_AD P 1

Mode	On Time (ms)	On+Off Time (ms)	Duty Cycle (%)	Duty Factor(dB) linear voltage	Duty Factor(dB) Power	1/T Minimum VBW (kHz)
HT20	0.677	0.705	96.03%	0.352136	0.18	1.478
HT40	0.352	0.380	92.59%	0.668956	0.33	2.841

802.11n (20M)



802.11n (40M)

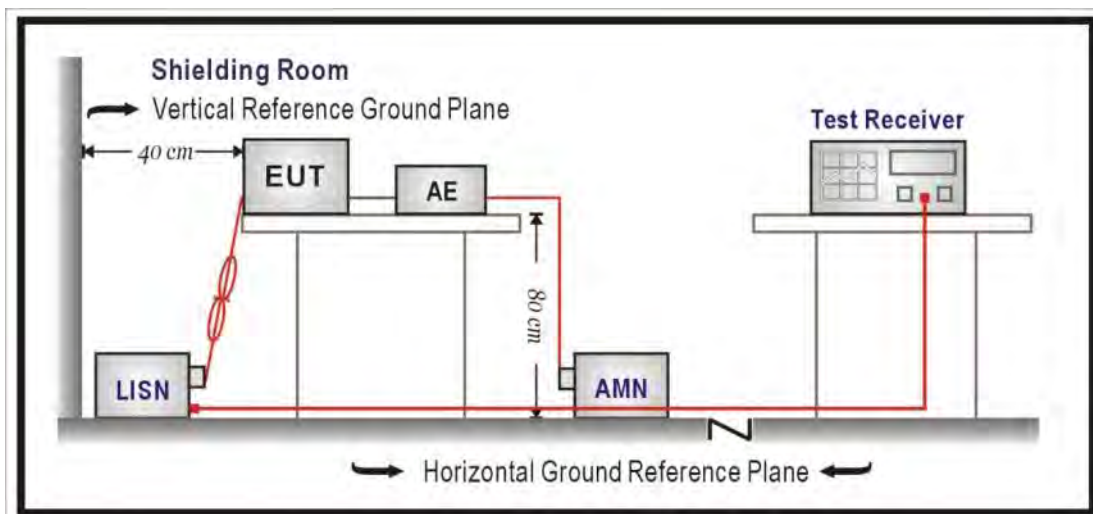


1.9. Uncertainty

Test item	Uncertainty
Conducted Emission	± 2.26 dB
Maximum peak conducted output power	± 1.27 dB
Radiated Emission	30MHz~1GHz as ± 3.43 dB 1GHz~26.5GHz as ± 3.65 dB
RF antenna conducted test	± 1.27 dB
Radiated Emission Band Edge	± 3.9 dB
DTS Bandwidth	± 50 Hz
Occupied Bandwidth	± 50 Hz
Power Density	± 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 KDB 558074 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.

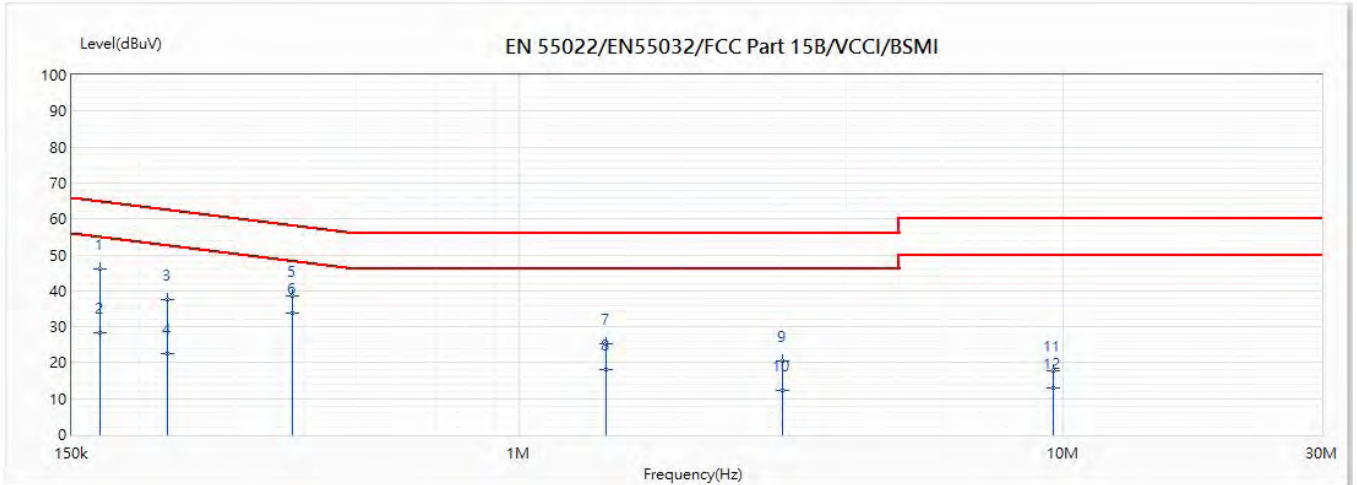
Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

2.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.207: 2019

2.5. Test Result

Model No	RT-AC68U V3	Site	SR2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/5/7
Test Mode	Mode 1: Transmit mode_CDD_ADP 1	Engineer	Scott
Phase	L1	Temperature (°C)	25
Test Condition	802.11b_2437MHz	Humidity (%RH)	61

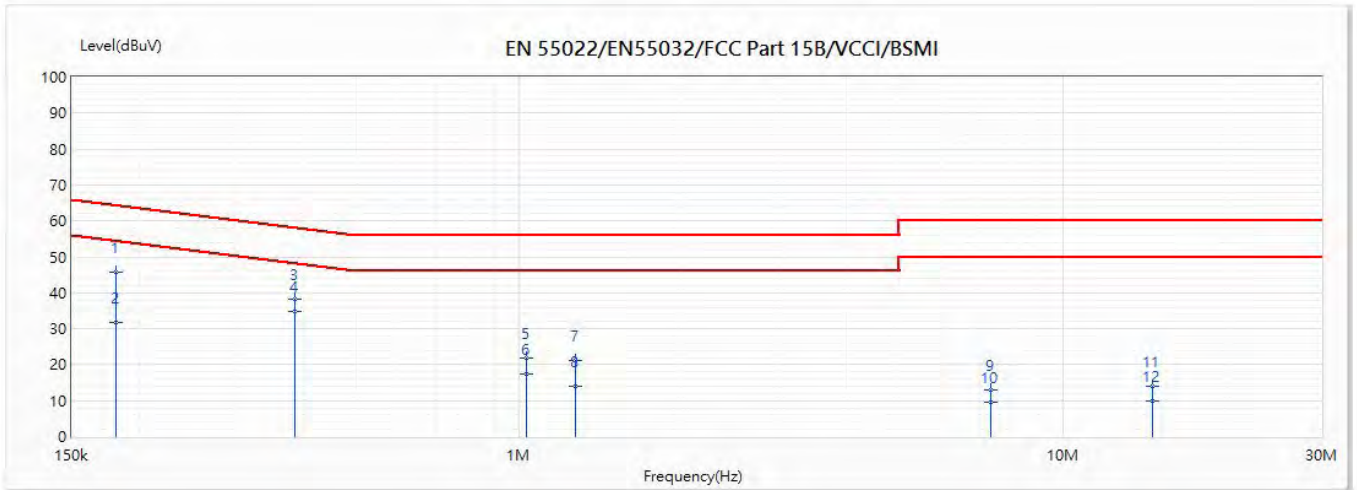


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.169	45.97	65.45	-19.49	36.30	9.66	QP
2	0.169	28.19	55.45	-27.26	18.53	9.66	AV
3	0.225	37.58	63.86	-26.28	27.90	9.68	QP
4	0.225	22.41	53.86	-31.45	12.73	9.68	AV
5	0.382	38.52	59.36	-20.85	28.81	9.71	QP
*6	0.382	33.71	49.36	-15.65	24.01	9.71	AV
7	1.448	25.34	56.00	-30.66	15.51	9.83	QP
8	1.448	18.14	46.00	-27.86	8.31	9.83	AV
9	3.056	20.37	56.00	-35.63	10.50	9.87	QP
10	3.056	12.45	46.00	-33.55	2.58	9.87	AV
11	9.631	17.80	60.00	-42.20	7.71	10.09	QP
12	9.631	13.05	50.00	-36.95	2.97	10.09	AV

Remark:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

Model No	RT-AC68U V3	Site	SR2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/5/7
Test Mode	Mode 1: Transmit mode_CDD_ADP 1	Engineer	Scott
Phase	L2	Temperature (°C)	25
Test Condition	802.11b_2437MHz	Humidity (%RH)	61

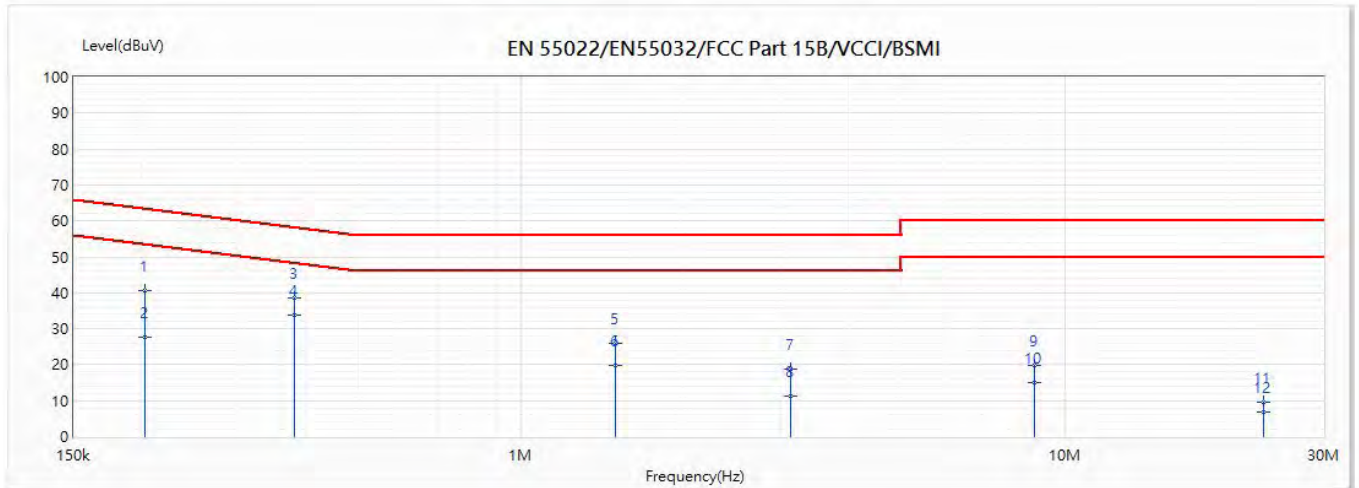


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.181	45.66	65.11	-19.45	35.98	9.68	QP
2	0.181	31.84	55.11	-23.27	22.16	9.68	AV
3	0.386	38.21	59.25	-21.04	28.49	9.72	QP
*4	0.386	34.79	49.25	-14.46	25.07	9.72	AV
5	1.031	21.98	56.00	-34.02	12.16	9.82	QP
6	1.031	17.53	46.00	-28.47	7.71	9.82	AV
7	1.269	21.31	56.00	-34.69	11.48	9.83	QP
8	1.269	13.86	46.00	-32.14	4.03	9.83	AV
9	7.396	12.94	60.00	-47.06	2.90	10.04	QP
10	7.396	9.58	50.00	-40.42	-0.46	10.04	AV
11	14.62	14.04	60.00	-45.96	3.75	10.30	QP
12	14.62	9.88	50.00	-40.12	-0.42	10.30	AV

Remark:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

Model No	RT-AC68U V3	Site	SR2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/5/7
Test Mode	Mode 1: Transmit mode_CDD_ADP 1	Engineer	Scott
Phase	L1	Temperature (°C)	25
Test Condition	802.11g_2437MHz	Humidity (%RH)	61

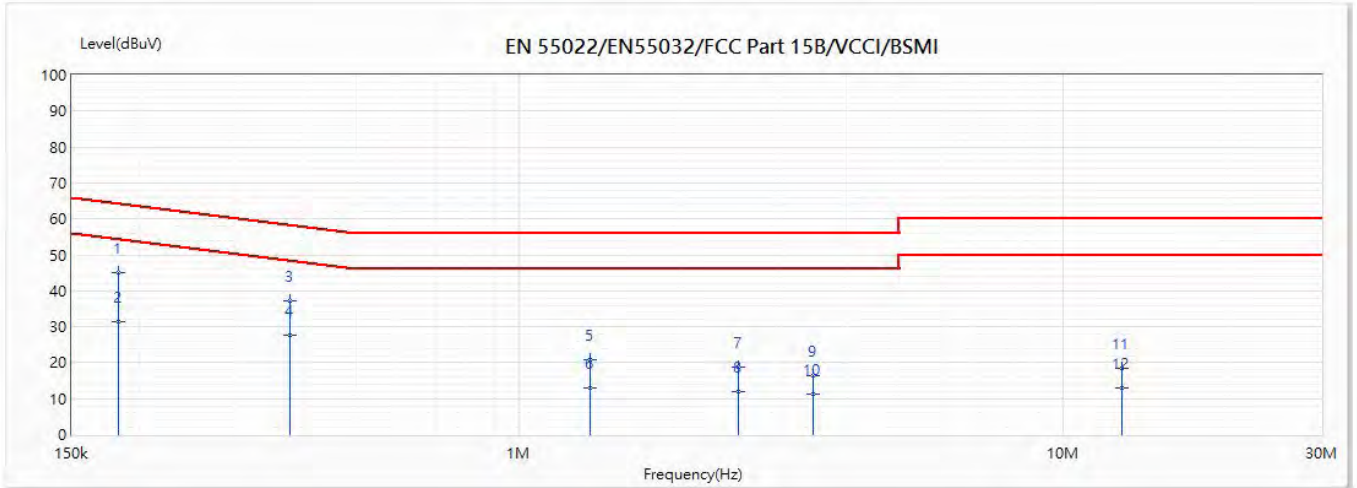


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.202	40.70	64.51	-23.80	31.03	9.67	QP
2	0.202	27.65	54.51	-26.86	17.98	9.67	AV
3	0.382	38.53	59.36	-20.83	28.83	9.71	QP
*4	0.382	33.94	49.36	-15.42	24.24	9.71	AV
5	1.493	25.89	56.00	-30.11	16.06	9.83	QP
6	1.493	19.89	46.00	-26.11	10.06	9.83	AV
7	3.132	18.90	56.00	-37.10	9.03	9.87	QP
8	3.132	11.42	46.00	-34.58	1.55	9.87	AV
9	8.808	19.63	60.00	-40.37	9.57	10.06	QP
10	8.808	15.09	50.00	-34.91	5.03	10.06	AV
11	23.221	9.47	60.00	-50.53	-0.83	10.30	QP
12	23.221	6.86	50.00	-43.14	-3.43	10.30	AV

Remark:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

Model No	RT-AC68U V3	Site	SR2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/5/7
Test Mode	Mode 1: Transmit mode_CDD_ADP 1	Engineer	Scott
Phase	L2	Temperature (°C)	25
Test Condition	802.11g_2437MHz	Humidity (%RH)	61

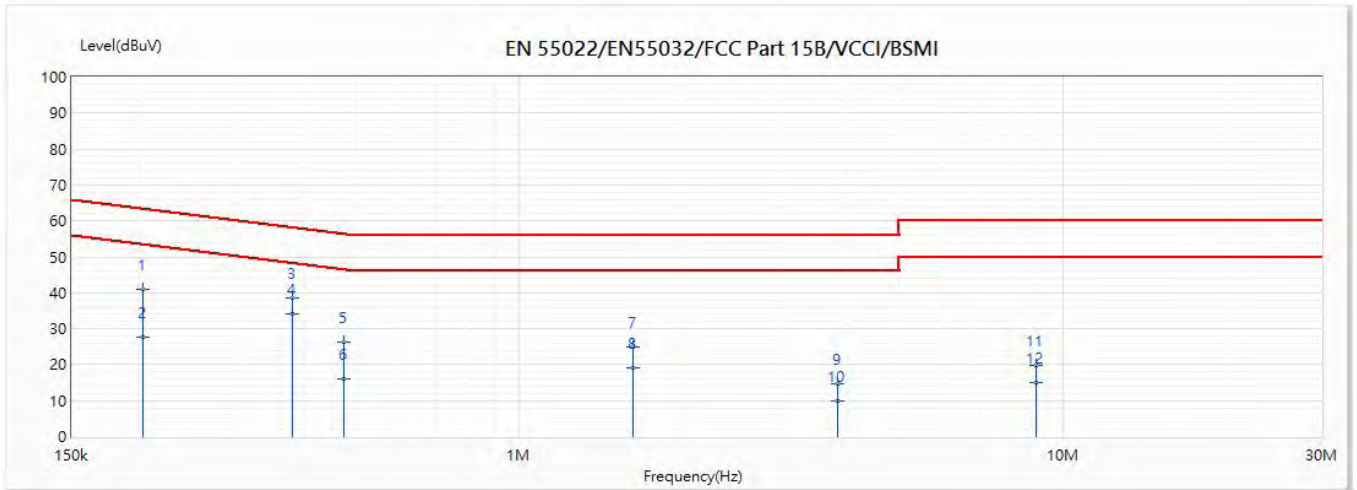


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
*1	0.182	45.07	65.08	-20.01	35.39	9.68	QP
2	0.182	31.27	55.08	-23.81	21.59	9.68	AV
3	0.378	37.32	59.49	-22.17	27.60	9.72	QP
4	0.378	27.80	49.49	-21.69	18.08	9.72	AV
5	1.353	20.72	56.00	-35.28	10.89	9.83	QP
6	1.353	13.03	46.00	-32.97	3.20	9.83	AV
7	2.528	18.61	56.00	-37.39	8.74	9.87	QP
8	2.528	12.06	46.00	-33.94	2.20	9.87	AV
9	3.468	16.32	56.00	-39.68	6.43	9.88	QP
10	3.468	11.15	46.00	-34.85	1.26	9.88	AV
11	12.873	18.46	60.00	-41.54	8.22	10.24	QP
12	12.873	12.98	50.00	-37.02	2.74	10.24	AV

Remark:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

Model No	RT-AC68U V3	Site	SR2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/5/7
Test Mode	Mode 1: Transmit mode_CDD_ADP 1	Engineer	Scott
Phase	L1	Temperature (°C)	25
Test Condition	802.11n(20M)_2437MHz	Humidity (%RH)	61

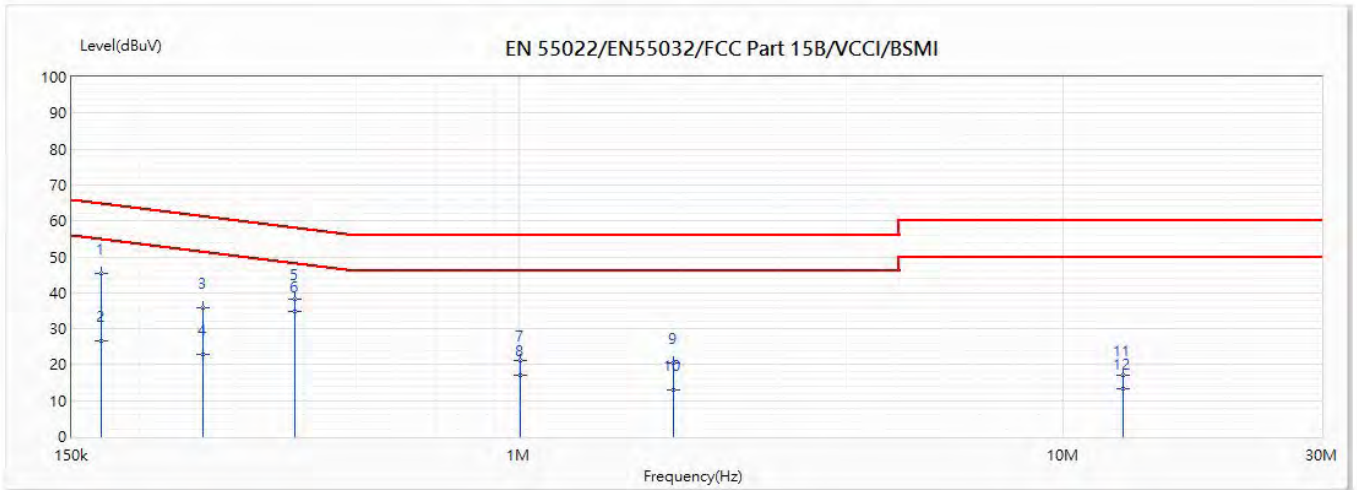


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.202	40.79	64.51	-23.71	31.12	9.67	QP
2	0.202	27.65	54.51	-26.86	17.98	9.67	AV
3	0.383	38.54	59.35	-20.81	28.83	9.71	QP
*4	0.383	34.11	49.35	-15.24	24.41	9.71	AV
5	0.474	26.13	56.73	-30.60	16.40	9.72	QP
6	0.474	16.10	46.73	-30.63	6.37	9.72	AV
7	1.617	25.07	56.00	-30.93	15.24	9.83	QP
8	1.617	18.96	46.00	-27.04	9.13	9.83	AV
9	3.865	14.54	56.00	-41.46	4.65	9.89	QP
10	3.865	9.80	46.00	-36.20	-0.09	9.89	AV
11	8.932	19.63	60.00	-40.37	9.57	10.06	QP
12	8.932	15.05	50.00	-34.95	4.99	10.06	AV

Remark:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

Model No	RT-AC68U V3	Site	SR2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/5/7
Test Mode	Mode 1: Transmit mode_CDD_ADP 1	Engineer	Scott
Phase	L2	Temperature (°C)	25
Test Condition	802.11n(20M)_2437MHz	Humidity (%RH)	61

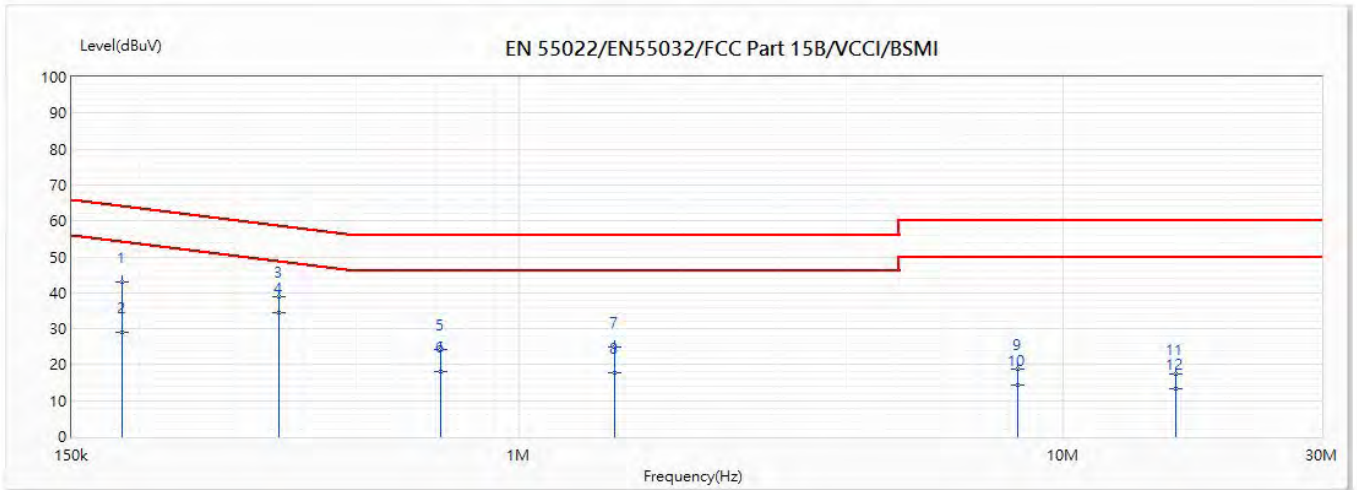


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.17	45.33	65.44	-20.11	35.65	9.68	QP
2	0.17	26.59	55.44	-28.84	16.91	9.68	AV
3	0.262	35.74	62.80	-27.05	26.05	9.69	QP
4	0.262	22.79	52.80	-30.00	13.10	9.69	AV
5	0.386	38.24	59.25	-21.01	28.52	9.72	QP
*6	0.386	34.97	49.25	-14.28	25.25	9.72	AV
7	1.004	21.27	56.00	-34.73	11.45	9.82	QP
8	1.004	17.22	46.00	-28.78	7.40	9.82	AV
9	1.919	20.34	56.00	-35.66	10.49	9.85	QP
10	1.919	12.89	46.00	-33.11	3.04	9.85	AV
11	12.952	17.01	60.00	-42.99	6.77	10.24	QP
12	12.952	13.17	50.00	-36.83	2.93	10.24	AV

Remark:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

Model No	RT-AC68U V3	Site	SR2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/5/7
Test Mode	Mode 1: Transmit mode_CDD_ADP 1	Engineer	Scott
Phase	L1	Temperature (°C)	25
Test Condition	802.11n(40M)_2437MHz	Humidity (%RH)	61

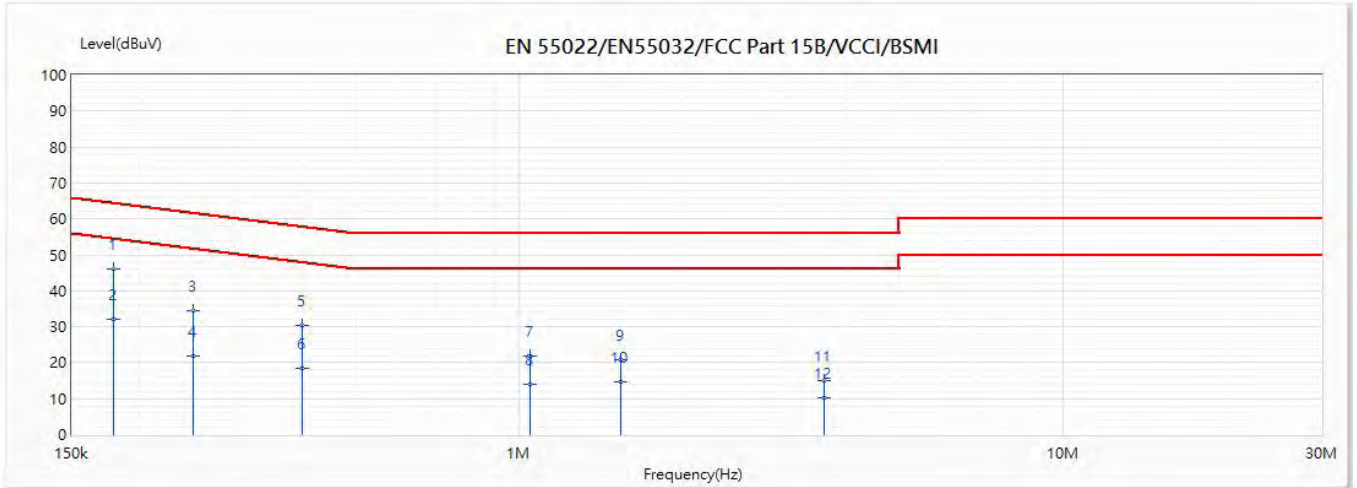


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.185	43.13	64.99	-21.85	33.47	9.67	QP
2	0.185	29.10	54.99	-25.89	19.43	9.67	AV
3	0.361	38.91	59.97	-21.05	29.21	9.70	QP
*4	0.361	34.63	49.97	-15.34	24.93	9.70	AV
5	0.716	24.32	56.00	-31.68	14.55	9.77	QP
6	0.716	18.10	46.00	-27.90	8.33	9.77	AV
7	1.499	25.05	56.00	-30.95	15.22	9.83	QP
8	1.499	17.86	46.00	-28.14	8.03	9.83	AV
9	8.284	18.72	60.00	-41.28	8.68	10.04	QP
10	8.284	14.20	50.00	-35.80	4.16	10.04	AV
11	16.155	17.24	60.00	-42.76	7.04	10.21	QP
12	16.155	13.32	50.00	-36.68	3.11	10.21	AV

Remark:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

Model No	RT-AC68U V3	Site	SR2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/5/7
Test Mode	Mode 1: Transmit mode_CDD_ADP 1	Engineer	Scott
Phase	L2	Temperature (°C)	25
Test Condition	802.11n(40M)_2437MHz	Humidity (%RH)	61

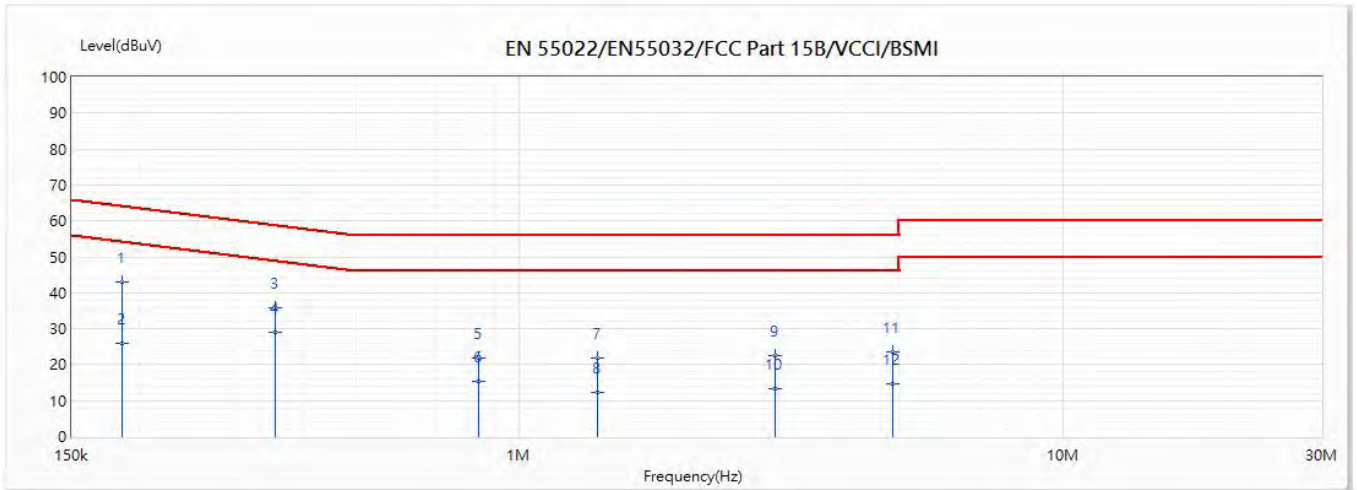


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
*1	0.179	45.98	65.17	-19.19	36.30	9.68	QP
2	0.179	32.17	55.17	-23.00	22.49	9.68	AV
3	0.251	34.55	63.12	-28.57	24.86	9.69	QP
4	0.251	21.81	53.12	-31.31	12.12	9.69	AV
5	0.399	30.28	58.89	-28.61	20.56	9.72	QP
6	0.399	18.55	48.89	-30.34	8.83	9.72	AV
7	1.044	21.75	56.00	-34.25	11.92	9.82	QP
8	1.044	14.14	46.00	-31.86	4.32	9.82	AV
9	1.54	20.91	56.00	-35.09	11.07	9.84	QP
10	1.54	14.57	46.00	-31.43	4.73	9.84	AV
11	3.636	15.11	56.00	-40.89	5.22	9.90	QP
12	3.636	10.35	46.00	-35.65	0.46	9.90	AV

Remark:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

Model No	RT-AC68U V3	Site	SR2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/5/7
Test Mode	Mode 2:Transmit mode_CDD_ADP 2	Engineer	Scott
Phase	L1	Temperature (°C)	25
Test Condition	802.11n(40M)_2437MHz	Humidity (%RH)	61

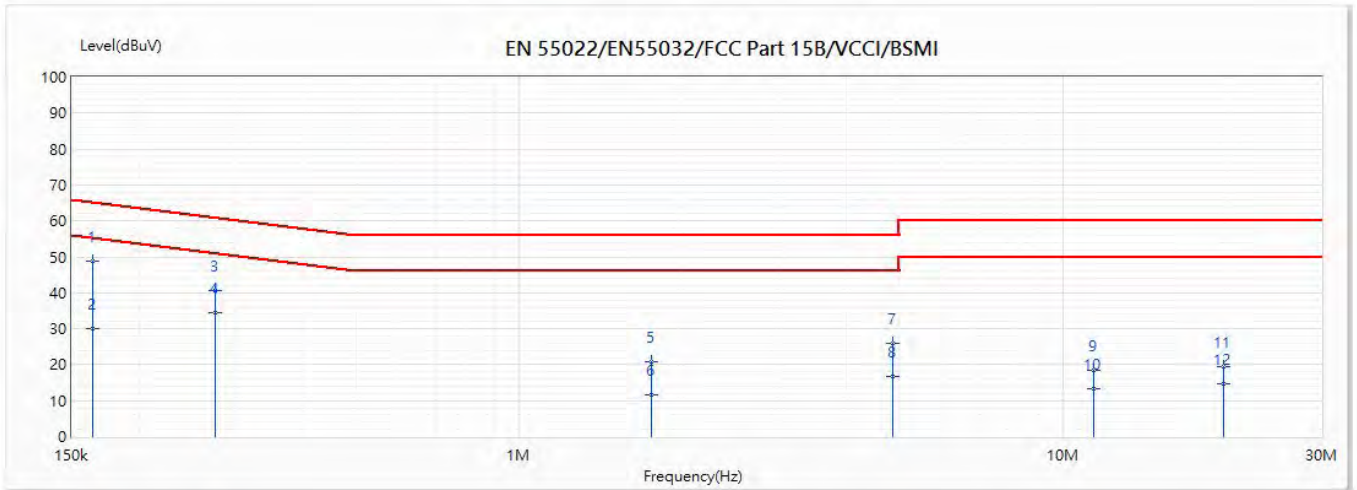


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.186	43.02	64.97	-21.95	33.35	9.67	QP
2	0.186	25.77	54.97	-29.20	16.11	9.67	AV
3	0.354	35.74	60.16	-24.42	26.04	9.70	QP
*4	0.354	28.92	50.16	-21.24	19.21	9.70	AV
5	0.844	21.77	56.00	-34.23	11.98	9.79	QP
6	0.844	15.40	46.00	-30.60	5.61	9.79	AV
7	1.395	21.86	56.00	-34.14	12.03	9.83	QP
8	1.395	12.38	46.00	-33.62	2.55	9.83	AV
9	2.957	22.65	56.00	-33.35	12.79	9.87	QP
10	2.957	13.37	46.00	-32.63	3.50	9.87	AV
11	4.875	23.70	56.00	-32.30	13.78	9.92	QP
12	4.875	14.78	46.00	-31.22	4.86	9.92	AV

Remark:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

Model No	RT-AC68U V3	Site	SR2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/5/7
Test Mode	Mode 2:Transmit mode_CDD_AD P 2	Engineer	Scott
Phase	L2	Temperature (°C)	25
Test Condition	802.11n(40M)_2437MHz	Humidity (%RH)	61



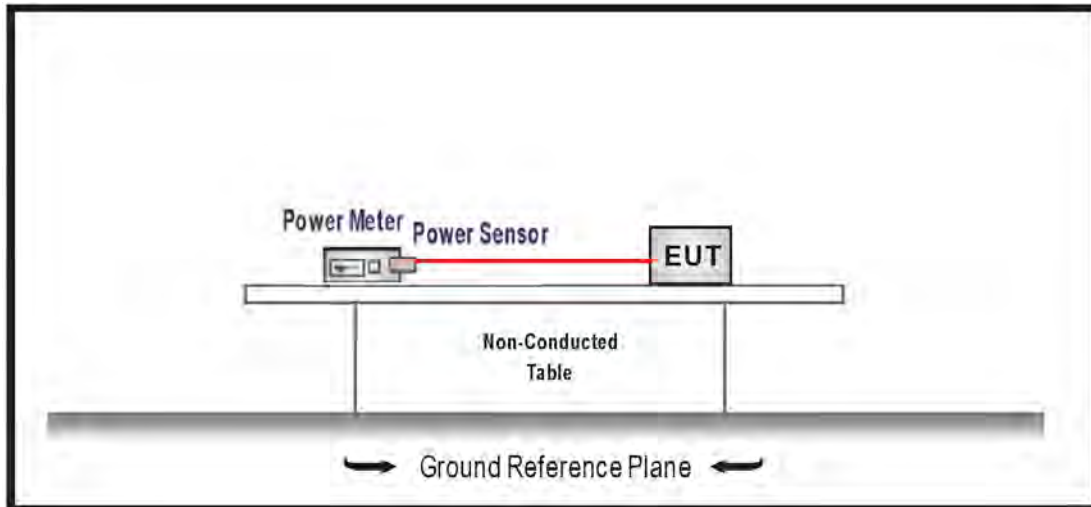
No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
*1	0.163	48.66	65.62	-16.96	38.98	9.68	QP
2	0.163	30.07	55.62	-25.55	20.39	9.68	AV
3	0.276	40.51	62.41	-21.90	30.82	9.70	QP
4	0.276	34.45	52.41	-17.96	24.76	9.70	AV
5	1.75	20.85	56.00	-35.15	11.01	9.84	QP
6	1.75	11.66	46.00	-34.34	1.81	9.84	AV
7	4.867	25.88	56.00	-30.12	15.95	9.93	QP
8	4.867	16.59	46.00	-29.41	6.65	9.93	AV
9	11.394	18.50	60.00	-41.50	8.31	10.19	QP
10	11.394	13.28	50.00	-36.72	3.09	10.19	AV
11	19.79	19.30	60.00	-40.70	8.86	10.45	QP
12	19.79	14.52	50.00	-35.48	4.07	10.45	AV

Remark:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

3. Maximum peak conducted output power

3.1. Test Setup



3.2. Test procedures

The EUT was tested according to DTS test procedure section 8.3.1.3 of KDB 558074 D01 v05r02 & Subclause 11.9.1.3 of ANSI C63.10 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: 2019

3.5. Test Result

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: Transmit mode_CDD_AD P 1		
Date of Test	2020/04/09	Test Site	SR12-H
Test Temperature	22.5°C	Test Humidity	57.0%

IEEE 802.11b (ANT 0)			
Channel No.	Frequency (MHz)	Measure Value (dBm)	Limit (dBm)
1	2412	22.850	≤30
6	2437	24.330	≤30
11	2462	21.550	≤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	22.850	--	--	--	≤30
6	2437	24.330	24.270	24.210	24.140	≤30
11	2462	21.550	--	--	--	≤30

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: Transmit mode_CDD_AD P 1		
Date of Test	2020/04/09	Test Site	SR12-H
Test Temperature	22.5°C	Test Humidity	57.0%

IEEE 802.11b (ANT 1)			
Channel No.	Frequency (MHz)	Measure Value (dBm)	Limit (dBm)
1	2412	22.450	≤ 30
6	2437	24.100	≤ 30
11	2462	21.250	≤ 30

The worst emission of data rate is 1 Mbps

Maximum peak conducted output power (dBm)						
Channel No.	Frequency (MHz)	Data Rate (Mbps)				Limit (dBm)
		1	2	5.5	11	
1	2412	22.450	--	--	--	≤ 30
6	2437	24.100	23.960	23.900	23.820	≤ 30
11	2462	21.250	--	--	--	≤ 30

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: Transmit mode_CDD_AD P 1		
Date of Test	2020/04/09	Test Site	SR12-H
Test Temperature	22.5°C	Test Humidity	57.0%

IEEE 802.11b (ANT 2)			
Channel No.	Frequency (MHz)	Measure Value (dBm)	Limit (dBm)
1	2412	22.890	≤ 30
6	2437	24.270	≤ 30
11	2462	21.380	≤ 30

The worst emission of data rate is 1 Mbps

Maximum peak conducted output power (dBm)						
Channel No.	Frequency (MHz)	Data Rate (Mbps)				Limit (dBm)
		1	2	5.5	11	
1	2412	22.890	--	--	--	≤ 30
6	2437	24.270	24.130	24.040	23.980	≤ 30
11	2462	21.380	--	--	--	≤ 30

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: Transmit mode_CDD_AD P 1		
Date of Test	2020/04/09	Test Site	SR12-H
Test Temperature	22.5°C	Test Humidity	57.0%

IEEE 802.11b (ANT 0+1+2)			
Channel No.	Frequency (MHz)	Measure Value (dBm)	Limit (dBm)
1	2412	27.506	≤ 30
6	2437	29.006	≤ 30
11	2462	26.166	≤ 30

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: Transmit mode_CDD_AD P 1		
Date of Test	2020/04/09	Test Site	SR12-H
Test Temperature	22.5°C	Test Humidity	57.0%

IEEE 802.11g (ANT 0)			
Channel No.	Frequency (MHz)	Measure Value (dBm)	Limit (dBm)
1	2412	17.39	≤ 30
6	2437	24.33	≤ 30
11	2462	14.74	≤ 30

The worst emission of data rate is 6Mbps

Maximum peak conducted output power (dBm)										
Channel No	Frequency (MHz)	Data Rate (Mbps)								Limit (dBm)
		6	9	12	18	24	36	48	54	
1	2412	17.390	--	--	--	--	--	--	--	≤ 30
6	2437	24.330	24.290	24.220	24.180	24.110	24.030	23.950	23.870	≤ 30
11	2462	14.740	--	--	--	--	--	--	--	≤ 30

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: Transmit mode_CDD_AD P 1		
Date of Test	2020/04/09	Test Site	SR12-H
Test Temperature	22.5°C	Test Humidity	57.0%

IEEE 802.11g (ANT 1)			
Channel No.	Frequency (MHz)	Measure Value (dBm)	Limit (dBm)
1	2412	17.01	≤30
6	2437	24.22	≤30
11	2462	14.62	≤30

The worst emission of data rate is 6Mbps

Maximum peak conducted output power (dBm)										
Channel No	Frequency (MHz)	Data Rate (Mbps)								Limit (dBm)
		6	9	12	18	24	36	48	54	
1	2412	17.010	--	--	--	--	--	--	--	≤30
6	2437	24.220	24.170	24.110	24.050	23.970	23.910	23.840	23.790	≤30
11	2462	14.620	--	--	--	--	--	--	--	≤30

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: Transmit mode_CDD_AD P 1		
Date of Test	2020/04/09	Test Site	SR12-H
Test Temperature	22.5°C	Test Humidity	57.0%

IEEE 802.11g (ANT 2)			
Channel No.	Frequency (MHz)	Measure Value (dBm)	Limit (dBm)
1	2412	17.29	≤30
6	2437	24.17	≤30
11	2462	14.68	≤30

The worst emission of data rate is 6Mbps

Maximum peak conducted output power (dBm)										
Channel No	Frequency (MHz)	Data Rate (Mbps)								Limit (dBm)
		6	9	12	18	24	36	48	54	
1	2412	17.290	--	--	--	--	--	--	--	≤30
6	2437	24.170	24.110	23.940	23.860	23.720	23.680	23.620	23.510	≤30
11	2462	14.680	--	--	--	--	--	--	--	≤30

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: Transmit mode_CDD_AD P 1		
Date of Test	2020/04/09	Test Site	SR12-H
Test Temperature	22.5°C	Test Humidity	57.0%

IEEE 802.11g (ANT 0+1+2)			
Channel No.	Frequency (MHz)	Measure Value (dBm)	Limit (dBm)
1	2412	22.004	≤ 30
6	2437	29.012	≤ 30
11	2462	19.451	≤ 30

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: Transmit mode_CDD_AD P 1		
Date of Test	2020/04/09	Test Site	SR12-H
Test Temperature	22.5°C	Test Humidity	57.0%

IEEE 802.11n 20M (ANT 0)			
Channel No.	Frequency (MHz)	Measure Value (dBm)	Limit (dBm)
1	2412	14.32	≤30
6	2437	23.65	≤30
11	2462	14.61	≤30

The worst emission of data rate is MCS 0

Maximum peak conducted output power (dBm)										
Channel No	Frequency (MHz)	MCS Index								Limit (dBm)
		0	1	2	3	4	5	6	7	
1	2412	14.320	--	--	--	--	--	--	--	≤30
6	2437	23.650	23.510	23.470	23.330	23.300	22.940	22.900	22.870	≤30
11	2462	14.610	--	--	--	--	--	--	--	≤30

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: Transmit mode_CDD_AD P 1		
Date of Test	2020/04/09	Test Site	SR12-H
Test Temperature	22.5°C	Test Humidity	57.0%

IEEE 802.11n 20M (ANT 1)			
Channel No.	Frequency (MHz)	Measure Value (dBm)	Limit (dBm)
1	2412	13.81	≤30
6	2437	23.44	≤30
11	2462	14.36	≤30

The worst emission of data rate is MCS 0

Maximum peak conducted output power (dBm)										
Channel No	Frequency (MHz)	MCS Index								Limit (dBm)
		0	1	2	3	4	5	6	7	
1	2412	13.810	--	--	--	--	--	--	--	≤30
6	2437	23.440	23.310	23.260	23.200	23.150	23.090	23.020	22.940	≤30
11	2462	14.360	--	--	--	--	--	--	--	≤30

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: Transmit mode_CDD_AD P 1		
Date of Test	2020/04/09	Test Site	SR12-H
Test Temperature	22.5°C	Test Humidity	57.0%

IEEE 802.11n 20M (ANT 2)			
Channel No.	Frequency (MHz)	Measure Value (dBm)	Limit (dBm)
1	2412	14.15	≤30
6	2437	23.51	≤30
11	2462	14.71	≤30

The worst emission of data rate is MCS 0

Maximum peak conducted output power (dBm)										
Channel No	Frequency (MHz)	MCS Index								Limit (dBm)
		0	1	2	3	4	5	6	7	
1	2412	14.150	--	--	--	--	--	--	--	≤30
6	2437	23.510	23.420	23.350	23.300	23.260	23.200	23.140	23.070	≤30
11	2462	14.710	--	--	--	--	--	--	--	≤30

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: Transmit mode_CDD_AD P 1		
Date of Test	2020/04/09	Test Site	SR12-H
Test Temperature	22.5°C	Test Humidity	57.0%

IEEE 802.11n 20M (ANT 0+1+2)			
Channel No.	Frequency (MHz)	Measure Value (dBm)	Limit (dBm)
1	2412	18.870	≤ 30
6	2437	28.305	≤ 30
11	2462	19.334	≤ 30

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: Transmit mode_CDD_AD P 1		
Date of Test	2020/04/09	Test Site	SR12-H
Test Temperature	22.5°C	Test Humidity	57.0%

IEEE 802.11n 40M (ANT 0)			
Channel No.	Frequency (MHz)	Measure Value (dBm)	Limit (dBm)
3	2422	13.1	≤30
6	2437	15.09	≤30
9	2452	11.32	≤30

The worst emission of data rate is MCS 0

Maximum peak conducted output power (dBm)										
Channel No	Frequency (MHz)	MCS Index								Limit (dBm)
		0	1	2	3	4	5	6	7	
3	2422	13.100	--	--	--	--	--	--	--	≤30
6	2437	15.090	14.950	14.810	14.770	14.630	14.550	14.460	14.400	≤30
9	2452	11.320	--	--	--	--	--	--	--	≤30

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: Transmit mode_CDD_AD P 1		
Date of Test	2020/04/09	Test Site	SR12-H
Test Temperature	22.5°C	Test Humidity	57.0%

IEEE 802.11n 40M (ANT 1)			
Channel No.	Frequency (MHz)	Measure Value (dBm)	Limit (dBm)
3	2422	12.66	≤30
6	2437	14.67	≤30
9	2452	11.4	≤30

The worst emission of data rate is MCS 0

Maximum peak conducted output power (dBm)										
Channel No	Frequency (MHz)	MCS Index								Limit (dBm)
		0	1	2	3	4	5	6	7	
3	2422	12.660	--	--	--	--	--	--	--	≤30
6	2437	14.670	14.610	14.570	14.490	14.420	14.380	14.320	14.260	≤30
9	2452	11.400	--	--	--	--	--	--	--	≤30

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: Transmit mode_CDD_AD P 1		
Date of Test	2020/04/09	Test Site	SR12-H
Test Temperature	22.5°C	Test Humidity	57.0%

IEEE 802.11n 40M (ANT 2)			
Channel No.	Frequency (MHz)	Measure Value (dBm)	Limit (dBm)
3	2422	13.02	≤30
6	2437	14.88	≤30
9	2452	11.61	≤30

The worst emission of data rate is MCS 0

Maximum peak conducted output power (dBm)										
Channel No	Frequency (MHz)	MCS Index								Limit (dBm)
		0	1	2	3	4	5	6	7	
3	2422	13.020	--	--	--	--	--	--	--	≤30
6	2437	14.880	14.740	14.680	14.610	14.570	14.500	14.420	14.390	≤30
9	2452	11.610	--	--	--	--	--	--	--	≤30

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: Transmit mode_CDD_AD P 1		
Date of Test	2020/04/09	Test Site	SR12-H
Test Temperature	22.5°C	Test Humidity	57.0%

IEEE 802.11n 40M (ANT 0+1+2)			
Channel No.	Frequency (MHz)	Measure Value (dBm)	Limit (dBm)
3	2422	17.702	≤ 30
6	2437	19.655	≤ 30
9	2452	16.216	≤ 30

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 3: Transmit mode_BF_ADP 1		
Date of Test	2020/04/19	Test Site	SR12-H
Test Temperature	24.5°C	Test Humidity	53.0%

IEEE 802.11n 20M (ANT 0)			
Channel No.	Frequency (MHz)	Measure Value (dBm)	Limit (dBm)
1	2412	14.32	≤30
6	2437	22.01	≤30
11	2462	14.77	≤30

The worst emission of data rate is MCS 0

Maximum peak conducted output power (dBm)										
Channel No	Frequency (MHz)	MCS Index								Limit (dBm)
		0	1	2	3	4	5	6	7	
1	2412	14.320	--	--	--	--	--	--	--	≤30
6	2437	22.010	21.960	21.900	21.830	21.750	21.700	21.630	21.540	≤30
11	2462	14.770	--	--	--	--	--	--	--	≤30

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 3: Transmit mode_BF_ADP 1		
Date of Test	2020/04/19	Test Site	SR12-H
Test Temperature	24.5°C	Test Humidity	53.0%

IEEE 802.11n 20M (ANT 1)			
Channel No.	Frequency (MHz)	Measure Value (dBm)	Limit (dBm)
1	2412	13.81	≤30
6	2437	22.76	≤30
11	2462	15.20	≤30

The worst emission of data rate is MCS 0

Maximum peak conducted output power (dBm)										
Channel No	Frequency (MHz)	MCS Index								Limit (dBm)
		0	1	2	3	4	5	6	7	
1	2412	13.810	--	--	--	--	--	--	--	≤30
6	2437	22.760	22.710	22.660	22.520	22.440	22.380	22.300	22.250	≤30
11	2462	15.200	--	--	--	--	--	--	--	≤30

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 3: Transmit mode_BF_AD P 1		
Date of Test	2020/04/19	Test Site	SR12-H
Test Temperature	24.5°C	Test Humidity	53.0%

IEEE 802.11n 20M (ANT 2)			
Channel No.	Frequency (MHz)	Measure Value (dBm)	Limit (dBm)
1	2412	14.15	≤30
6	2437	22.36	≤30
11	2462	14.89	≤30

The worst emission of data rate is MCS 0

Maximum peak conducted output power (dBm)										
Channel No	Frequency (MHz)	MCS Index								Limit (dBm)
		0	1	2	3	4	5	6	7	
1	2412	14.150	--	--	--	--	--	--	--	≤30
6	2437	22.360	22.300	22.220	22.160	22.100	22.030	21.950	21.870	≤30
11	2462	14.890	--	--	--	--	--	--	--	≤30

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 3: Transmit mode_BF_ADP 1		
Date of Test	2020/04/19	Test Site	SR12-H
Test Temperature	24.5°C	Test Humidity	53.0%

IEEE 802.11n 20M (ANT 0+1+2)			
Channel No.	Frequency (MHz)	Measure Value (dBm)	Limit (dBm)
1	2412	18.870	≤ 30
6	2437	27.159	≤ 30
11	2462	19.728	≤ 30

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 3: Transmit mode_BF_AD P 1		
Date of Test	2020/04/19	Test Site	SR12-H
Test Temperature	24.5°C	Test Humidity	53.0%

IEEE 802.11n 40M (ANT 0)			
Channel No.	Frequency (MHz)	Measure Value (dBm)	Limit (dBm)
3	2422	12.21	≤30
6	2437	14.89	≤30
9	2452	11.1	≤30

The worst emission of data rate is MCS 0

Maximum peak conducted output power (dBm)										
Channel No	Frequency (MHz)	MCS Index								Limit (dBm)
		0	1	2	3	4	5	6	7	
3	2422	12.210	--	--	--	--	--	--	--	≤30
6	2437	14.890	14.820	14.750	14.670	14.590	14.520	14.460	14.400	≤30
9	2452	11.100	--	--	--	--	--	--	--	≤30

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 3: Transmit mode_BF_AD P 1		
Date of Test	2020/04/19	Test Site	SR12-H
Test Temperature	24.5°C	Test Humidity	53.0%

IEEE 802.11n 40M (ANT 1)			
Channel No.	Frequency (MHz)	Measure Value (dBm)	Limit (dBm)
3	2422	13.15	≤30
6	2437	15.15	≤30
9	2452	11.25	≤30

The worst emission of data rate is MCS 0

Maximum peak conducted output power (dBm)										
Channel No	Frequency (MHz)	MCS Index								Limit (dBm)
		0	1	2	3	4	5	6	7	
3	2422	13.150	--	--	--	--	--	--	--	≤30
6	2437	15.150	15.070	14.960	14.880	14.810	14.740	14.670	14.590	≤30
9	2452	11.250	--	--	--	--	--	--	--	≤30

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 3: Transmit mode_BF_AD P 1		
Date of Test	2020/04/19	Test Site	SR12-H
Test Temperature	24.5°C	Test Humidity	53.0%

IEEE 802.11n 40M (ANT 2)			
Channel No.	Frequency (MHz)	Measure Value (dBm)	Limit (dBm)
3	2422	12.77	≤30
6	2437	14.95	≤30
9	2452	11.22	≤30

The worst emission of data rate is MCS 0

Maximum peak conducted output power (dBm)										
Channel No	Frequency (MHz)	MCS Index								Limit (dBm)
		0	1	2	3	4	5	6	7	
3	2422	12.770	--	--	--	--	--	--	--	≤30
6	2437	14.950	14.880	14.800	14.720	14.650	14.590	14.510	14.440	≤30
9	2452	11.220	--	--	--	--	--	--	--	≤30

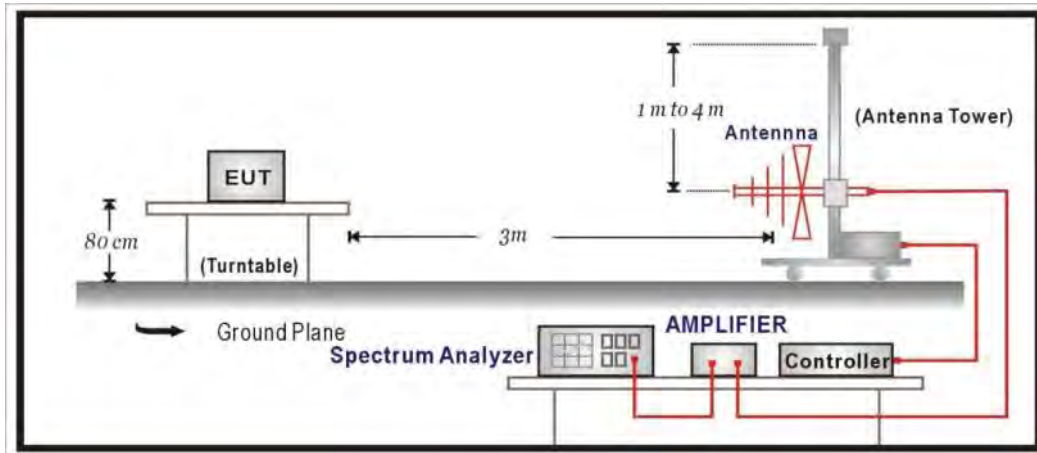
Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 3: Transmit mode_BF_ADP 1		
Date of Test	2020/04/19	Test Site	SR12-H
Test Temperature	24.5°C	Test Humidity	53.0%

IEEE 802.11n 40M (ANT 0+1+2)			
Channel No.	Frequency (MHz)	Measure Value (dBm)	Limit (dBm)
3	2422	17.498	≤ 30
6	2437	19.769	≤ 30
9	2452	15.962	≤ 30

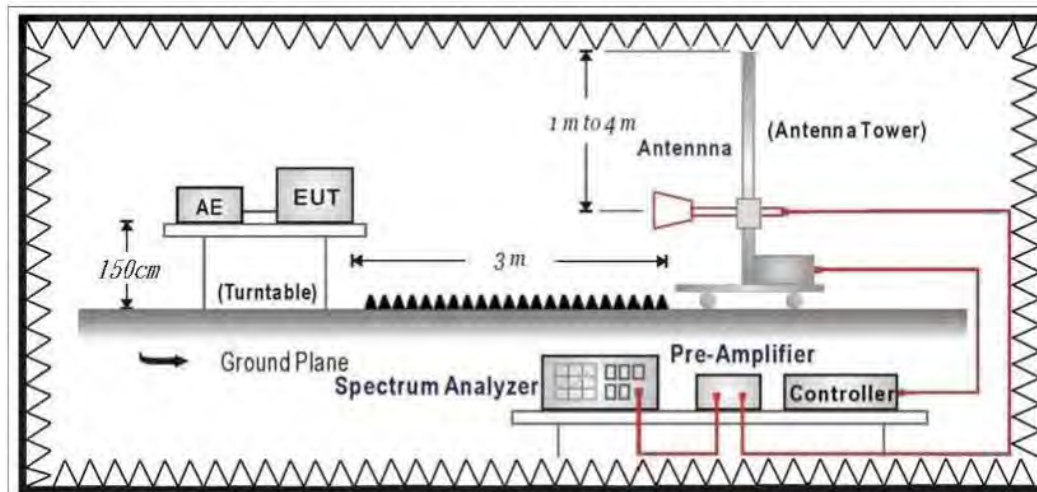
4. Radiated Emission

4.1. 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.

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

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

4.3. Test Procedure

The EUT was setup according to ANSI C63.10:2013 and tested according to DTS test procedure of KDB 558074 D01 v05r02 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.

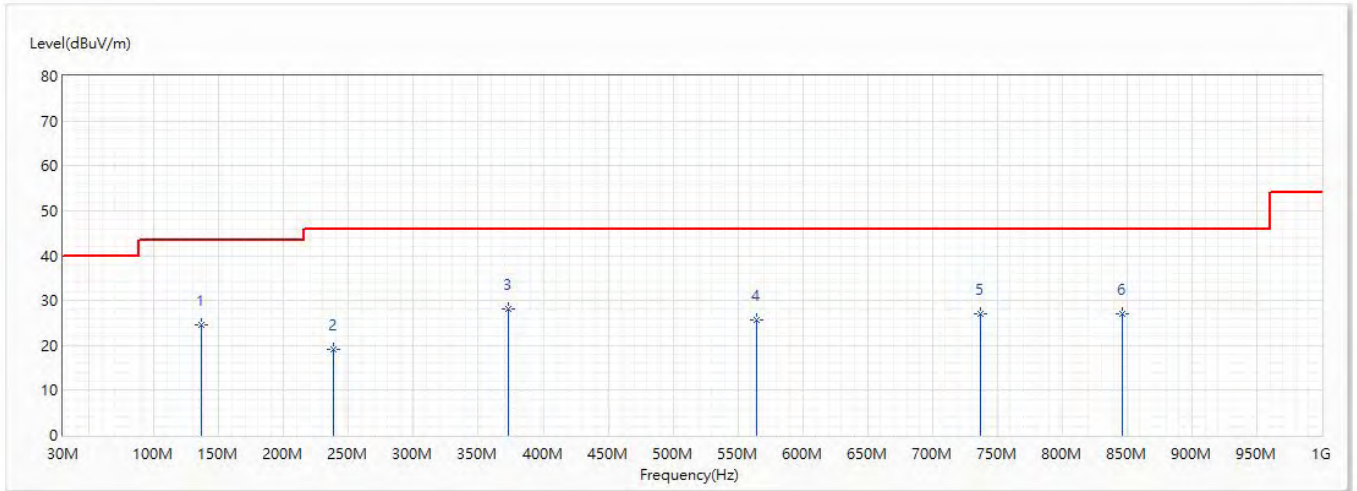
4.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2019

4.5. Test Result

30MHz-1GHz Spurious

Model No	RT-AC68U V3	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/4/26
Test Mode	Mode 1: Transmit mode_CDD ADP 1	Engineer	Max
Polarity	Horizontal	Temperature (°C)	23.5
Test Condition	802.11b_2437MHz	Humidity (%RH)	55.0

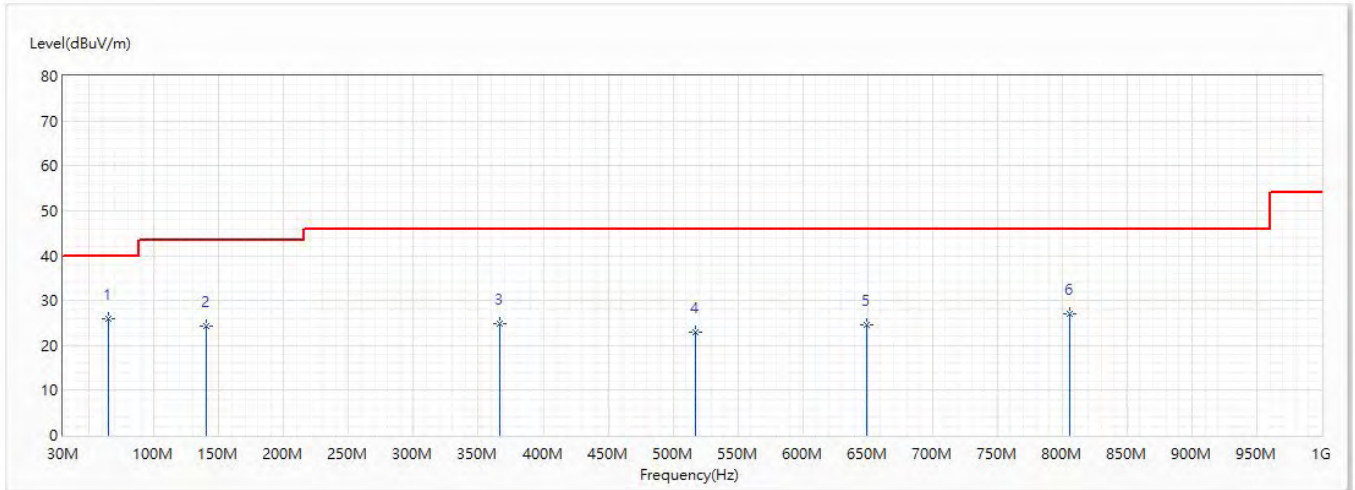


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	136.458	24.47	43.50	-19.03	45.47	-21.00	QP
2	238.065	19.17	46.00	-26.83	39.89	-20.72	QP
* 3	373.38	28.04	46.00	-17.96	44.73	-16.69	QP
4	564.228	25.59	46.00	-20.41	38.94	-13.35	QP
5	737.373	27.11	46.00	-18.89	38.82	-11.71	QP
6	846.498	26.92	46.00	-19.08	37.37	-10.45	QP

Note:

1. All reading levels is Quasi-Peak value.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

Model No	RT-AC68U V3	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/4/26
Test Mode	Mode 1: Transmit mode_CDD_AD P 1	Engineer	Max
Polarity	Vertical	Temperature (°C)	23.5
Test Condition	802.11b_2437MHz	Humidity (%RH)	55.0

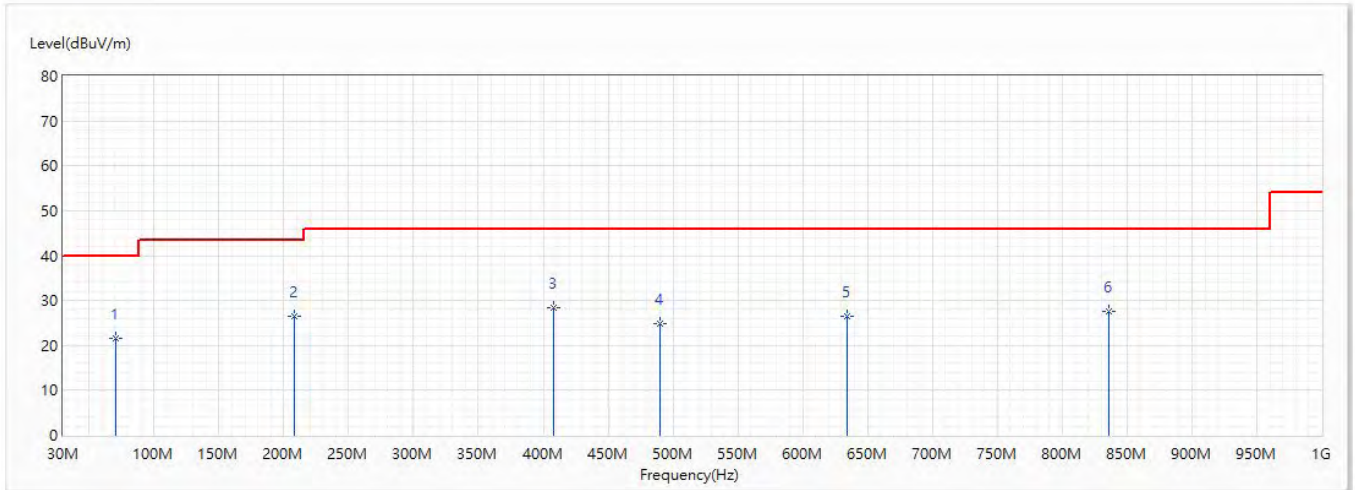


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	65.163	25.86	40.00	-14.14	53.11	-27.25	QP
2	139.853	24.38	43.50	-19.12	45.50	-21.12	QP
3	366.59	24.77	46.00	-21.23	41.67	-16.90	QP
4	517.668	22.98	46.00	-23.02	36.86	-13.88	QP
5	649.588	24.62	46.00	-21.38	37.18	-12.56	QP
6	805.515	27.16	46.00	-18.84	38.09	-10.93	QP

Note:

1. All reading levels is Quasi-Peak value.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

Model No	RT-AC68U V3	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/4/26
Test Mode	Mode 1: Transmit mode_CDD_ADP 1	Engineer	Max
Polarity	Horizontal	Temperature (°C)	23.5
Test Condition	802.11g_2437MHz	Humidity (%RH)	55.0

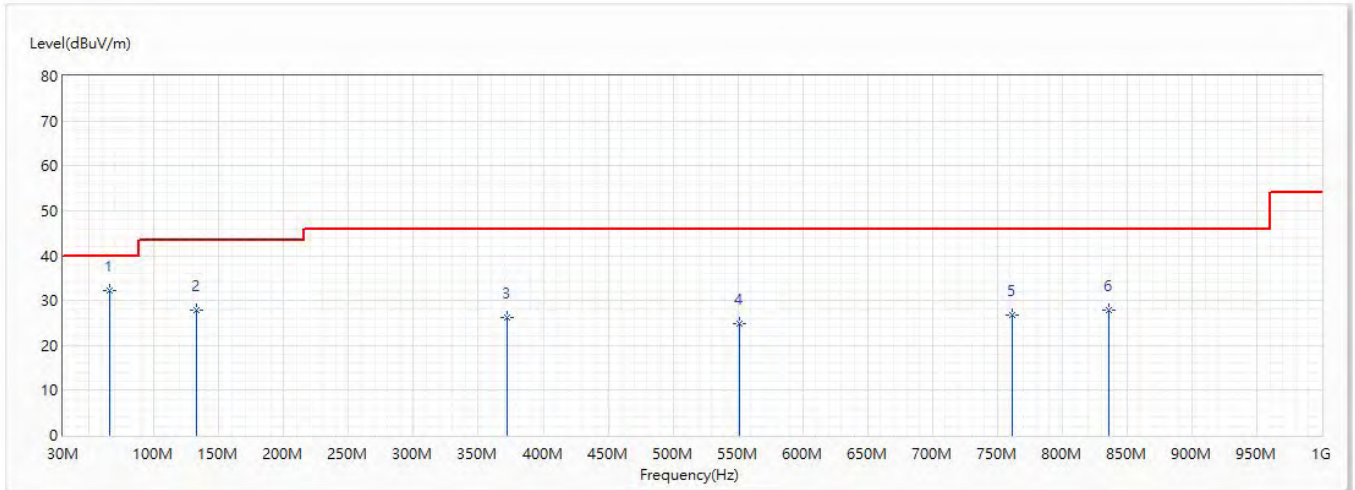


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	70.74	21.50	40.00	-18.50	48.58	-27.08	QP
* 2	208.48	26.48	43.50	-17.02	48.89	-22.41	QP
3	407.573	28.33	46.00	-17.67	44.02	-15.69	QP
4	489.78	24.89	46.00	-21.11	39.15	-14.26	QP
5	634.553	26.44	46.00	-19.56	39.12	-12.68	QP
6	836.313	27.50	46.00	-18.50	38.07	-10.57	QP

Note:

1. All reading levels is Quasi-Peak value.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

Model No	RT-AC68U V3	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/4/26
Test Mode	Mode 1: Transmit mode_CDD_AD P 1	Engineer	Max
Polarity	Vertical	Temperature (°C)	23.5
Test Condition	802.11g_2437MHz	Humidity (%RH)	55.0

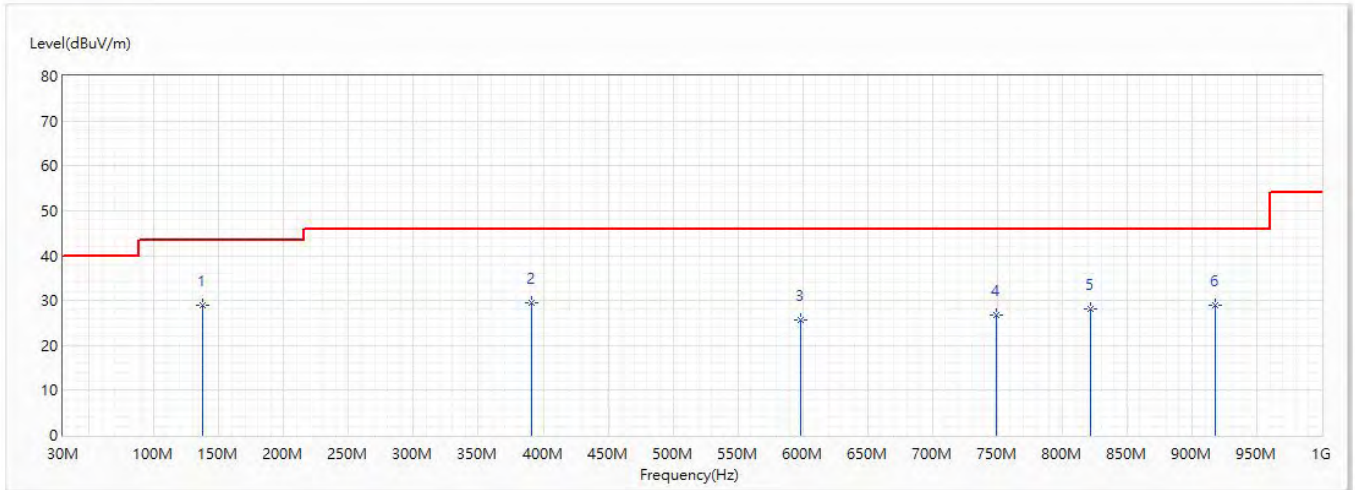


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	66.133	32.25	40.00	-7.75	59.49	-27.24	QP
2	133.063	27.97	43.50	-15.53	48.89	-20.92	QP
3	372.653	26.12	46.00	-19.88	42.83	-16.71	QP
4	551.618	24.73	46.00	-21.27	38.25	-13.52	QP
5	761.138	26.75	46.00	-19.25	38.20	-11.45	QP
6	836.07	27.79	46.00	-18.21	38.37	-10.58	QP

Note:

1. All reading levels is Quasi-Peak value.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

Model No	RT-AC68U V3	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/4/26
Test Mode	Mode 1: Transmit mode_CDD_ADP 1	Engineer	Max
Polarity	Horizontal	Temperature (°C)	23.5
Test Condition	802.11n(20M)_2437MHz	Humidity (%RH)	55.0

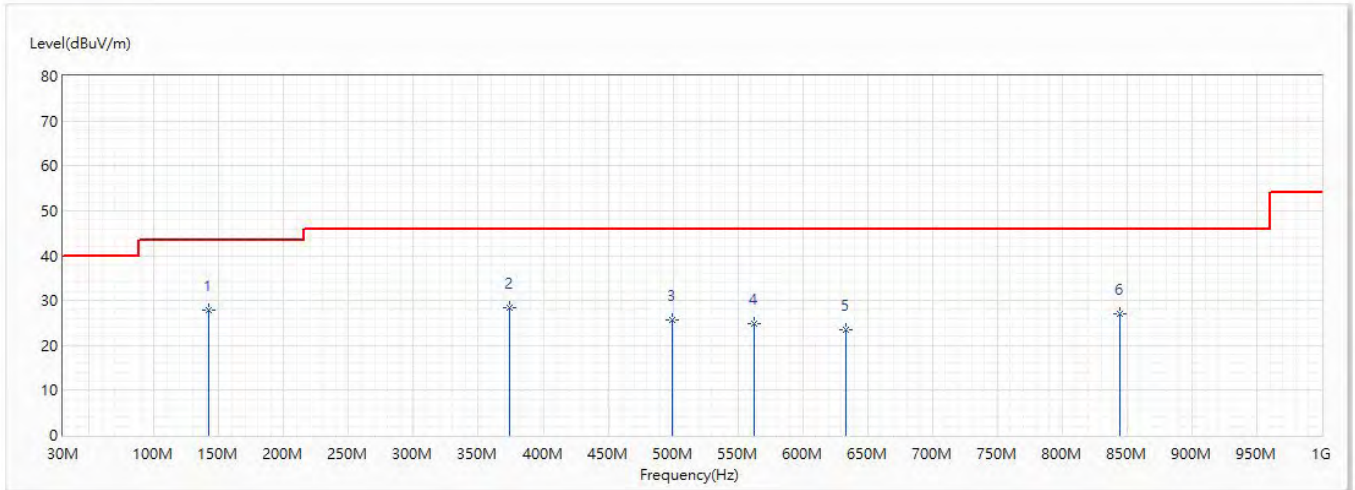


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	137.185	28.89	43.50	-14.61	49.92	-21.03	QP
2	391.083	29.62	46.00	-16.38	45.74	-16.12	QP
3	598.178	25.65	46.00	-20.35	38.62	-12.97	QP
4	749.013	26.80	46.00	-19.20	38.39	-11.59	QP
5	822.248	28.04	46.00	-17.96	38.78	-10.74	QP
6	918.035	29.00	46.00	-17.00	38.58	-9.58	QP

Note:

1. All reading levels is Quasi-Peak value.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

Model No	RT-AC68U V3	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/4/26
Test Mode	Mode 1: Transmit mode_CDD_ADP 1	Engineer	Max
Polarity	Horizontal	Temperature (°C)	23.5
Test Condition	802.11n(20M)_2437MHz	Humidity (%RH)	55.0

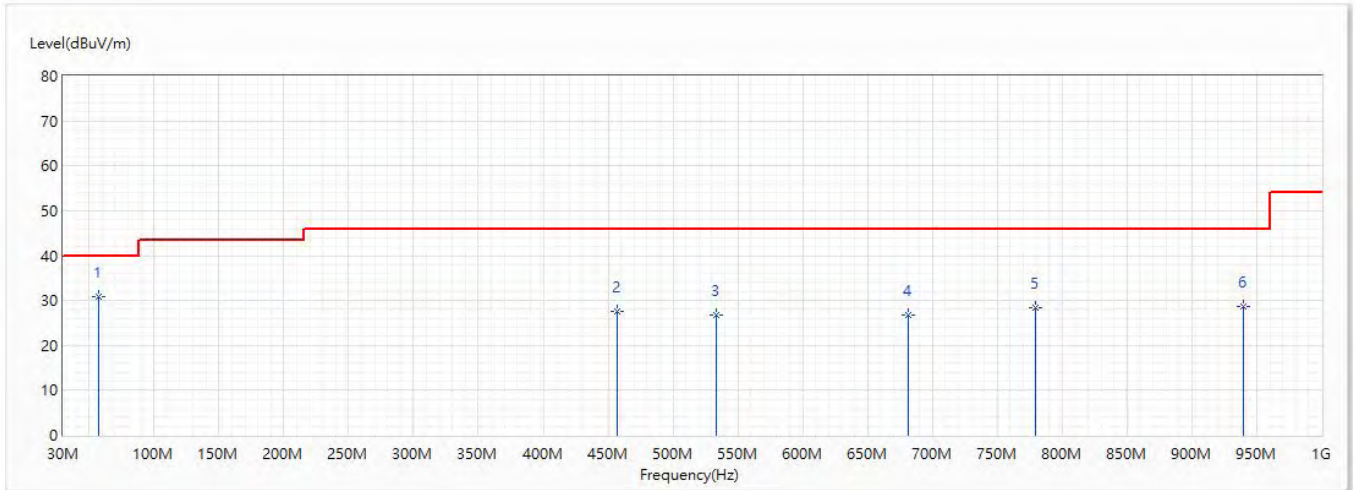


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	142.52	27.74	43.50	-15.76	48.98	-21.24	QP
2	374.35	28.38	46.00	-17.62	45.04	-16.66	QP
3	498.995	25.57	46.00	-20.43	39.67	-14.10	QP
4	562.288	24.91	46.00	-21.09	38.29	-13.38	QP
5	632.855	23.58	46.00	-22.42	36.27	-12.69	QP
6	844.558	27.05	46.00	-18.95	37.53	-10.48	QP

Note:

1. All reading levels is Quasi-Peak value.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

Model No	RT-AC68U V3	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/4/26
Test Mode	Mode 1: Transmit mode_CDD_ADP 1	Engineer	Max
Polarity	Horizontal	Temperature (°C)	23.5
Test Condition	802.11n(40M)_2437MHz	Humidity (%RH)	55.0

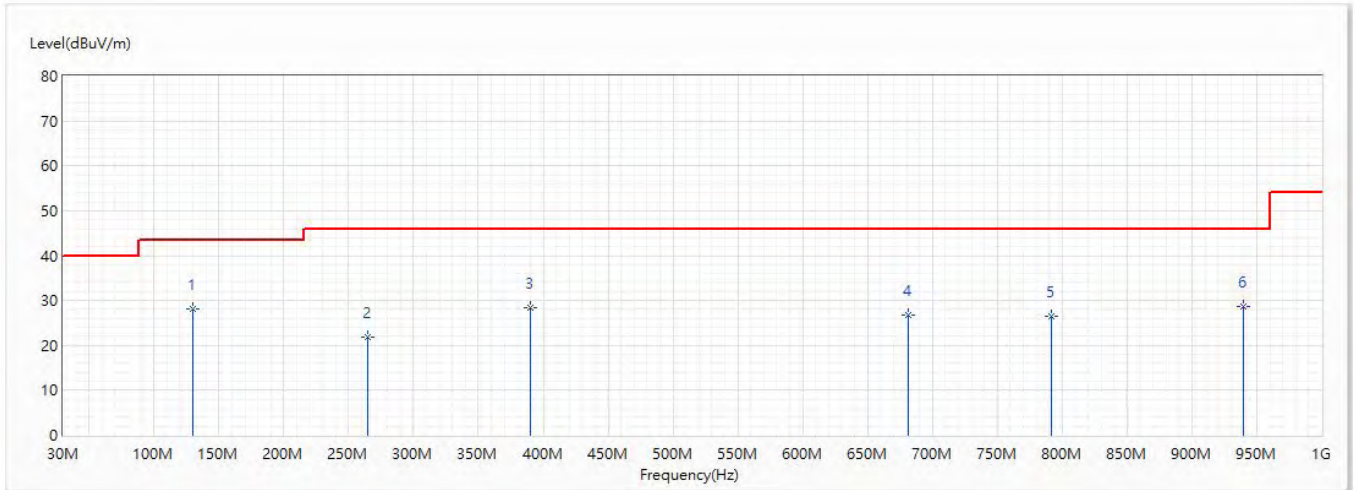


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	57.403	30.81	40.00	-9.19	57.37	-26.56	QP
2	457.043	27.45	46.00	-18.55	42.27	-14.82	QP
3	533.43	26.73	46.00	-19.27	40.43	-13.70	QP
4	681.113	26.86	46.00	-19.14	39.17	-12.31	QP
5	779.325	28.32	46.00	-17.68	39.54	-11.22	QP
6	939.86	28.68	46.00	-17.32	37.95	-9.27	QP

Note:

1. All reading levels is Quasi-Peak value.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

Model No	RT-AC68U V3	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/4/26
Test Mode	Mode 1: Transmit mode_CDD_AD P 1	Engineer	Max
Polarity	Vertical	Temperature (°C)	23.5
Test Condition	802.11n(40M)_2437MHz	Humidity (%RH)	55.0

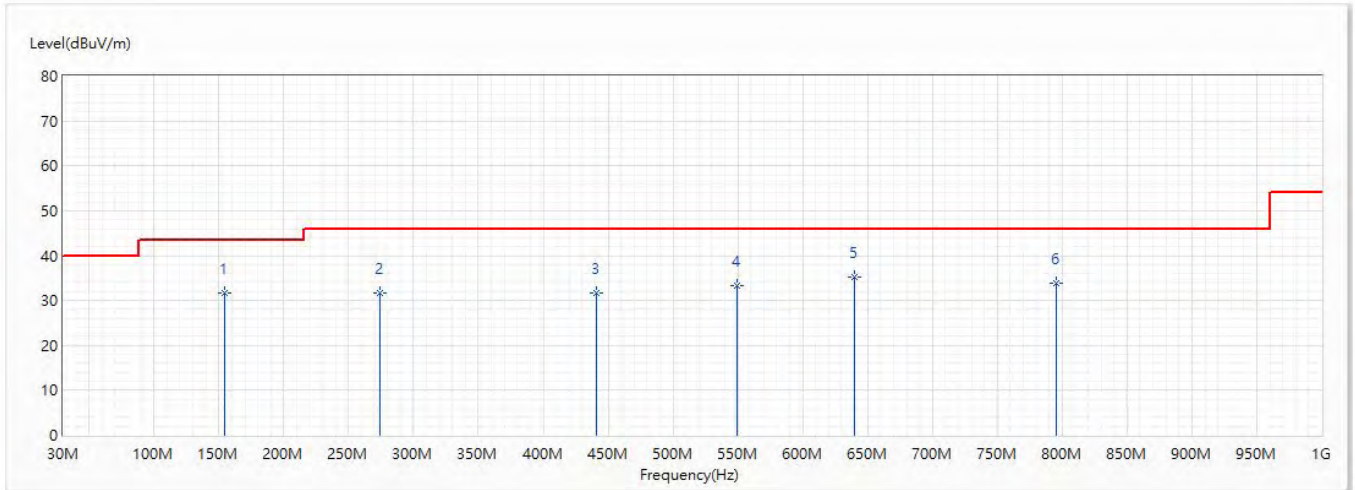


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	129.91	28.07	43.50	-15.43	48.92	-20.85	QP
2	264.498	21.82	46.00	-24.18	41.57	-19.75	QP
3	390.355	28.30	46.00	-17.70	44.44	-16.14	QP
4	681.113	26.86	46.00	-19.14	39.17	-12.31	QP
5	791.208	26.41	46.00	-19.59	37.50	-11.09	QP
6	939.86	28.68	46.00	-17.32	37.95	-9.27	QP

Note:

1. All reading levels is Quasi-Peak value.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

Model No	RT-AC68U V3	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/4/28
Test Mode	Mode 2: Transmit mode_CDD_ADP 2	Engineer	Scott
Polarity	Horizontal	Temperature (°C)	23.5
Test Condition	802.11n(40M)_2437MHz	Humidity (%RH)	55.0

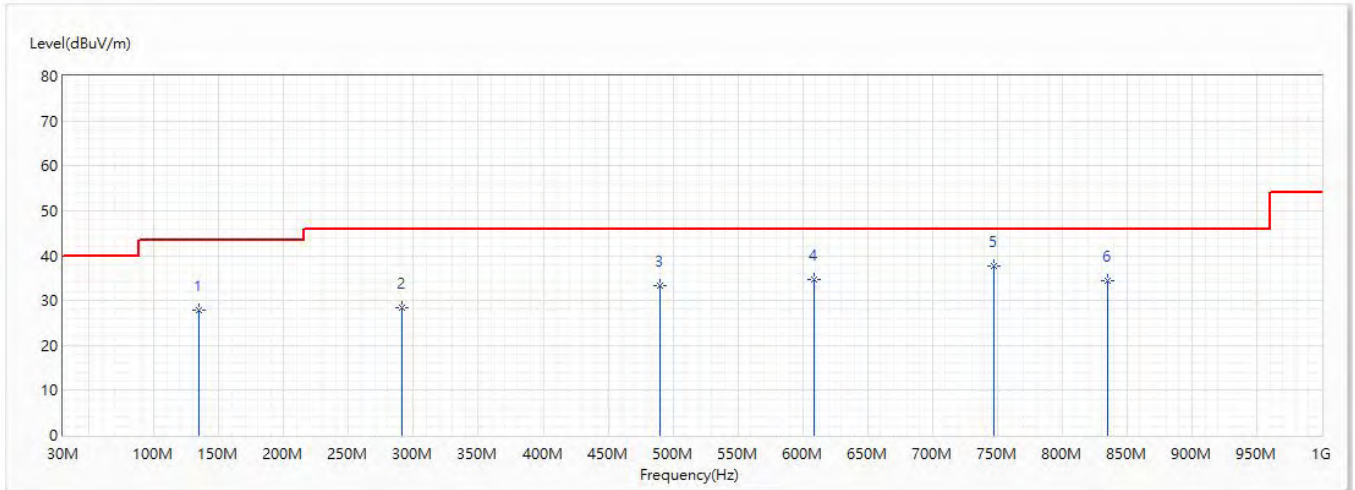


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	154.403	31.60	43.50	-11.90	34.76	-3.16	QP
2	273.955	31.77	46.00	-14.23	32.65	-0.88	QP
3	441.28	31.62	46.00	-14.38	28.01	3.61	QP
4	549.435	33.25	46.00	-12.75	27.93	5.32	QP
* 5	640.373	35.10	46.00	-10.90	28.71	6.39	QP
6	795.33	33.89	46.00	-12.11	25.63	8.26	QP

Note:

1. All reading levels is Quasi-Peak value.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

Model No	RT-AC68U V3	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/4/30
Test Mode	Mode 2: Transmit mode_CDD_ADP 2	Engineer	Scott
Polarity	Vertical	Temperature (°C)	23.5
Test Condition	802.11n(40M)_2437MHz	Humidity (%RH)	55.0



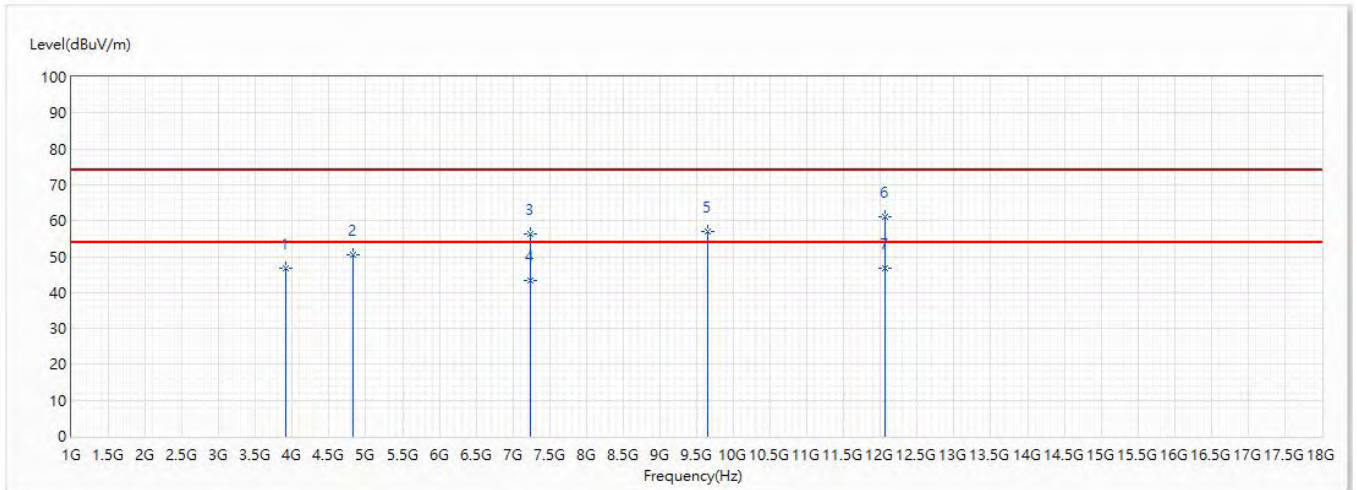
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	134.275	27.93	43.50	-15.57	30.06	-2.13	QP
2	291.415	28.49	46.00	-17.51	29.07	-0.58	QP
3	490.023	33.30	46.00	-12.70	28.81	4.49	QP
4	608.848	34.62	46.00	-11.38	28.55	6.07	QP
* 5	747.8	37.74	46.00	-8.26	30.09	7.65	QP
6	835.1	34.42	46.00	-11.58	25.67	8.75	QP

Note:

1. All reading levels is Quasi-Peak value.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

Above 1GHz Spurious

Model No	RT-AC68U V3	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/3/26
Test Mode	Mode 1: Transmit mode_CDD_ADP 1	Engineer	Scott
Polarity	Horizontal	Temperature (°C)	23.5
Test Condition	802.11b_2412MHz	Humidity (%RH)	57.0

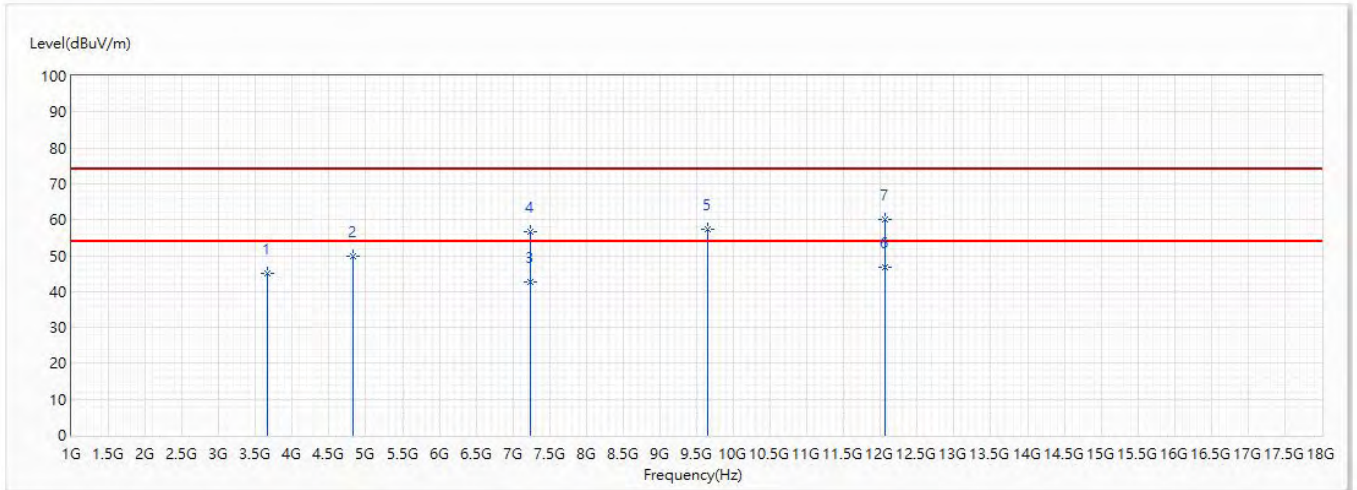


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	3912	46.60	74.00	-27.40	61.84	-15.24	PK
2	4824	50.47	74.00	-23.53	61.95	-11.48	PK
3	7236	56.46	74.00	-17.54	59.59	-3.13	PK
4	7236	43.36	54.00	-10.64	46.49	-3.13	AV
5	9648	57.01	74.00	-16.99	56.15	0.86	PK
6	12060	61.18	74.00	-12.82	55.82	5.36	PK
* 7	12060	46.83	54.00	-7.17	41.47	5.36	AV

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission 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 form limit.

Model No	RT-AC68U V3	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/3/26
Test Mode	Mode 1: Transmit mode_CDD_ADP 1	Engineer	Scott
Polarity	Vertical	Temperature (°C)	23.5
Test Condition	802.11b_2412MHz	Humidity (%RH)	57.0

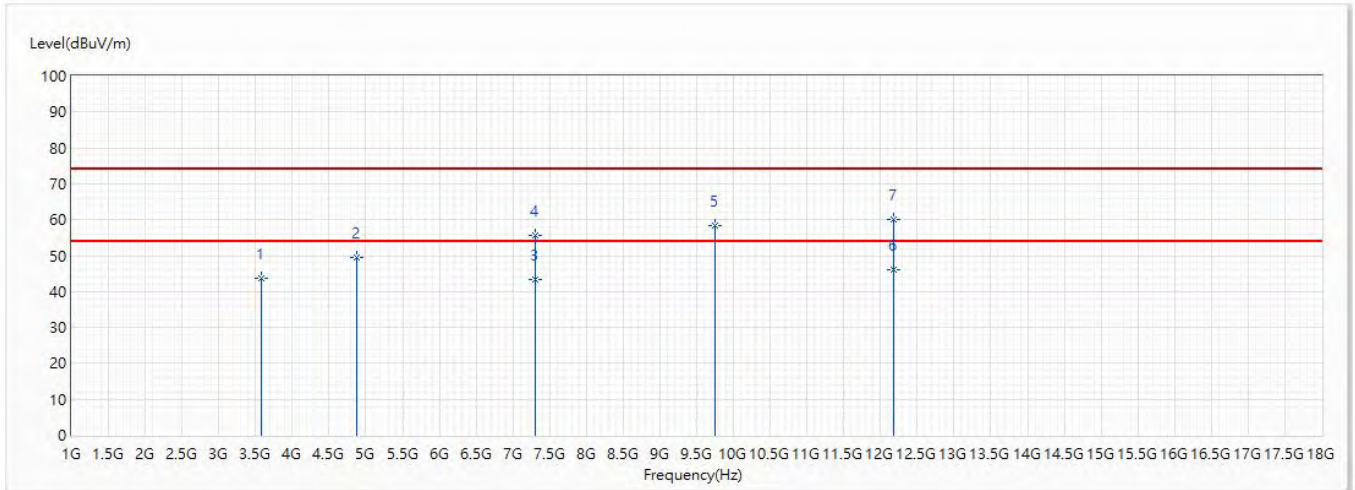


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	3667	44.90	74.00	-29.10	60.98	-16.08	PK
2	4824	49.66	74.00	-24.34	61.14	-11.48	PK
3	7236	42.73	54.00	-11.27	45.86	-3.13	AV
4	7236	56.58	74.00	-17.42	59.71	-3.13	PK
5	9648	57.18	74.00	-16.82	56.32	0.86	PK
* 6	12060	46.75	54.00	-7.25	41.39	5.36	AV
7	12060	59.93	74.00	-14.07	54.57	5.36	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission 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 form limit.

Model No	RT-AC68U V3	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/3/26
Test Mode	Mode 1: Transmit mode_CDD_AD P 1	Engineer	Scott
Polarity	Horizontal	Temperature (°C)	23.5
Test Condition	802.11b_2437MHz	Humidity (%RH)	57.0

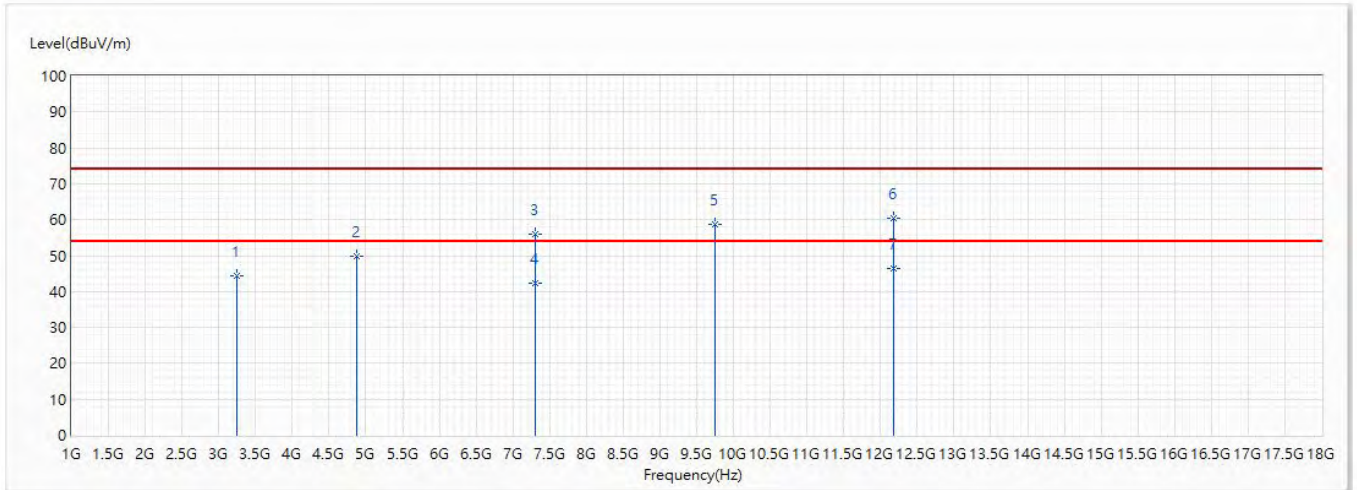


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	3573	43.58	74.00	-30.42	60.08	-16.50	PK
2	4874	49.45	74.00	-24.55	60.76	-11.31	PK
3	7311	43.20	54.00	-10.80	46.09	-2.89	AV
4	7311	55.62	74.00	-18.38	58.51	-2.89	PK
5	9748	58.49	74.00	-15.51	57.56	0.93	PK
* 6	12185	46.16	54.00	-7.84	41.06	5.10	AV
7	12185	60.18	74.00	-13.82	55.08	5.10	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission 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 form limit.

Model No	RT-AC68U V3	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/3/26
Test Mode	Mode 1: Transmit mode_CDD_AD P 1	Engineer	Scott
Polarity	Vertical	Temperature (°C)	23.5
Test Condition	802.11b_2437MHz	Humidity (%RH)	57.0

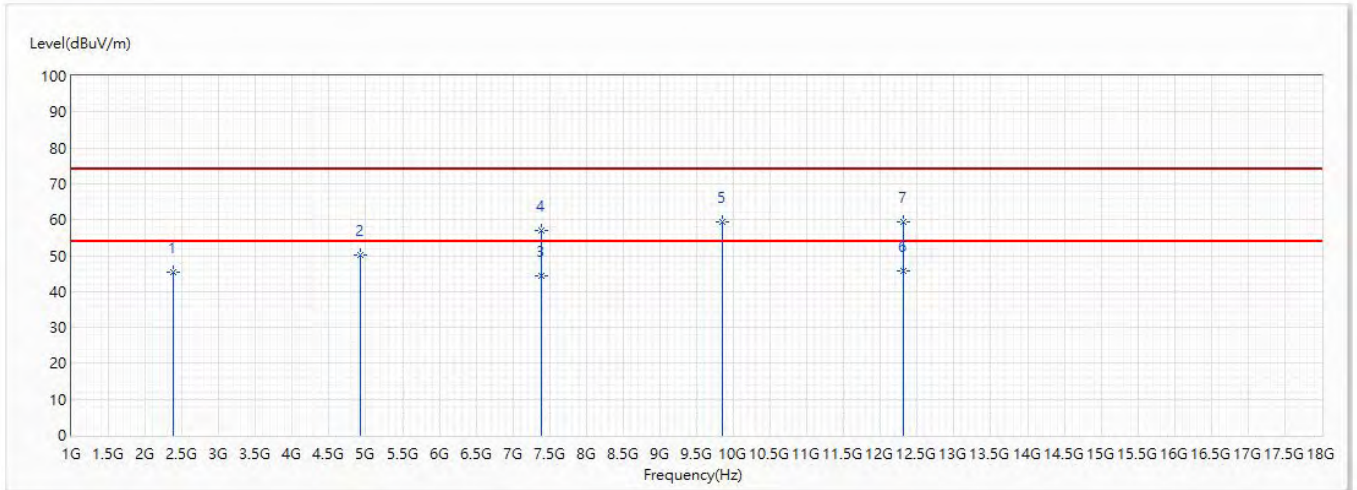


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	3240.6	44.30	74.00	-29.70	61.55	-17.25	PK
2	4874	49.86	74.00	-24.14	61.17	-11.31	PK
3	7311	55.94	74.00	-18.06	58.83	-2.89	PK
4	7311	42.36	54.00	-11.64	45.25	-2.89	AV
5	9748	58.84	74.00	-15.16	57.91	0.93	PK
6	12185	60.30	74.00	-13.70	55.20	5.10	PK
* 7	12185	46.36	54.00	-7.64	41.26	5.10	AV

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission 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 form limit.

Model No	RT-AC68U V3	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/3/26
Test Mode	Mode 1: Transmit mode_CDD_AD P 1	Engineer	Scott
Polarity	Horizontal	Temperature (°C)	23.5
Test Condition	802.11b_2462MHz	Humidity (%RH)	57.0



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2383	45.36	74.00	-28.64	65.79	-20.43	PK
2	4924	50.10	74.00	-23.90	61.28	-11.18	PK
3	7386	44.36	54.00	-9.64	46.86	-2.50	AV
4	7386	56.90	74.00	-17.10	59.40	-2.50	PK
5	9848	59.49	74.00	-14.51	58.43	1.06	PK
* 6	12310	45.58	54.00	-8.42	40.96	4.62	AV
7	12310	59.27	74.00	-14.73	54.65	4.62	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission 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 form limit.

Model No	RT-AC68U V3	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/3/26
Test Mode	Mode 1: Transmit mode_CDD_AD P 1	Engineer	Scott
Polarity	Vertical	Temperature (°C)	23.5
Test Condition	802.11b_2462MHz	Humidity (%RH)	57.0

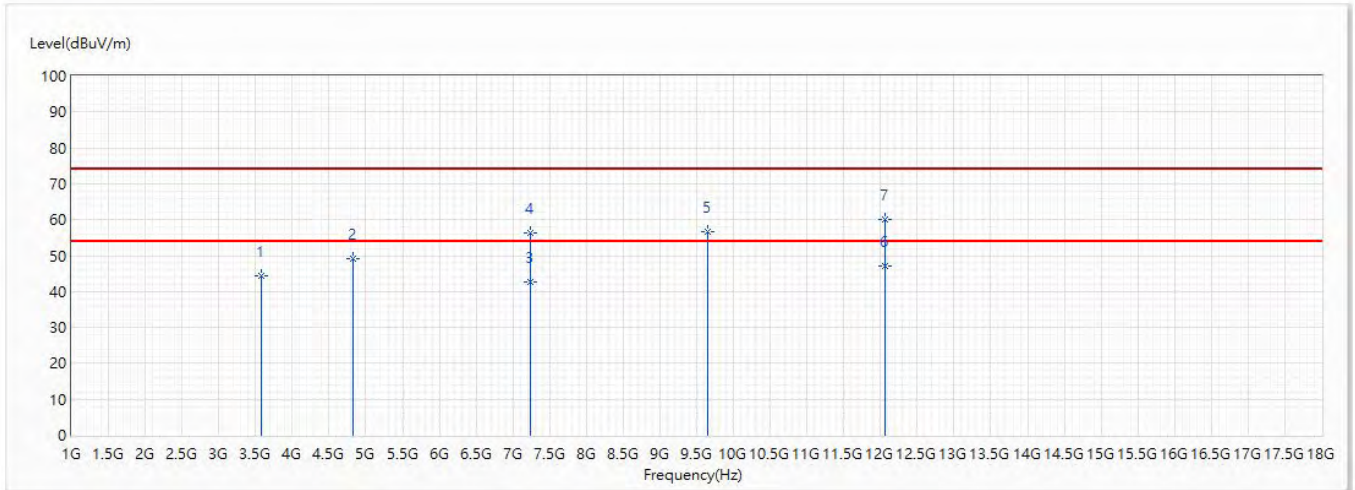


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	3106	44.42	74.00	-29.58	61.88	-17.46	PK
2	4924	49.72	74.00	-24.28	60.90	-11.18	PK
3	7386	57.32	74.00	-16.68	59.82	-2.50	PK
4	7386	43.16	54.00	-10.84	45.66	-2.50	AV
5	9848	58.85	74.00	-15.15	57.79	1.06	PK
6	12310	58.75	74.00	-15.25	54.13	4.62	PK
* 7	12310	45.66	54.00	-8.34	41.04	4.62	AV

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission 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 form limit.

Model No	RT-AC68U V3	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/3/26
Test Mode	Mode 1: Transmit mode_CDD_AD P 1	Engineer	Scott
Polarity	Horizontal	Temperature (°C)	23.5
Test Condition	802.11g_2412MHz	Humidity (%RH)	57.0

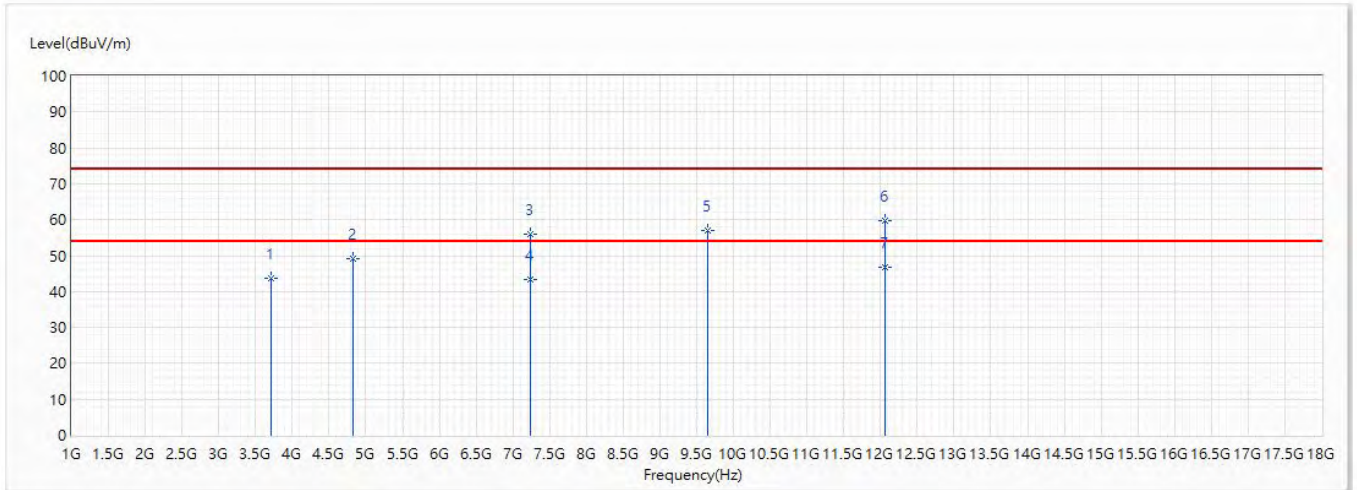


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	3570.5	44.44	74.00	-29.56	60.94	-16.50	PK
2	4824	49.24	74.00	-24.76	60.72	-11.48	PK
3	7236	42.58	54.00	-11.42	45.71	-3.13	AV
4	7236	56.41	74.00	-17.59	59.54	-3.13	PK
5	9648	56.74	74.00	-17.26	55.88	0.86	PK
* 6	12060	47.04	54.00	-6.96	41.68	5.36	AV
7	12060	60.03	74.00	-13.97	54.67	5.36	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission 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 form limit.

Model No	RT-AC68U V3	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/3/26
Test Mode	Mode 1: Transmit mode_CDD_ADP 1	Engineer	Scott
Polarity	Vertical	Temperature (°C)	23.5
Test Condition	802.11g_2412MHz	Humidity (%RH)	57.0

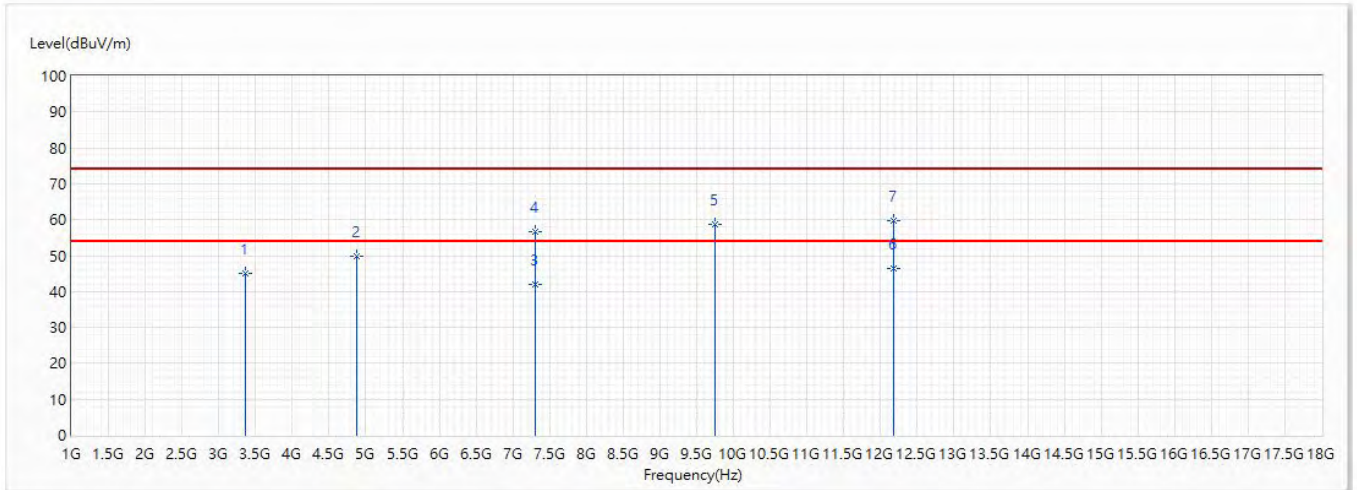


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	3709	43.56	74.00	-30.44	59.46	-15.90	PK
2	4824	49.24	74.00	-24.76	60.72	-11.48	PK
3	7236	55.90	74.00	-18.10	59.03	-3.13	PK
4	7236	43.40	54.00	-10.60	46.53	-3.13	AV
5	9648	56.91	74.00	-17.09	56.05	0.86	PK
6	12060	59.81	74.00	-14.19	54.45	5.36	PK
* 7	12060	46.73	54.00	-7.27	41.37	5.36	AV

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission 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 form limit.

Model No	RT-AC68U V3	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/3/26
Test Mode	Mode 1: Transmit mode_CDD_AD P 1	Engineer	Scott
Polarity	Horizontal	Temperature (°C)	23.5
Test Condition	802.11g_2437MHz	Humidity (%RH)	57.0

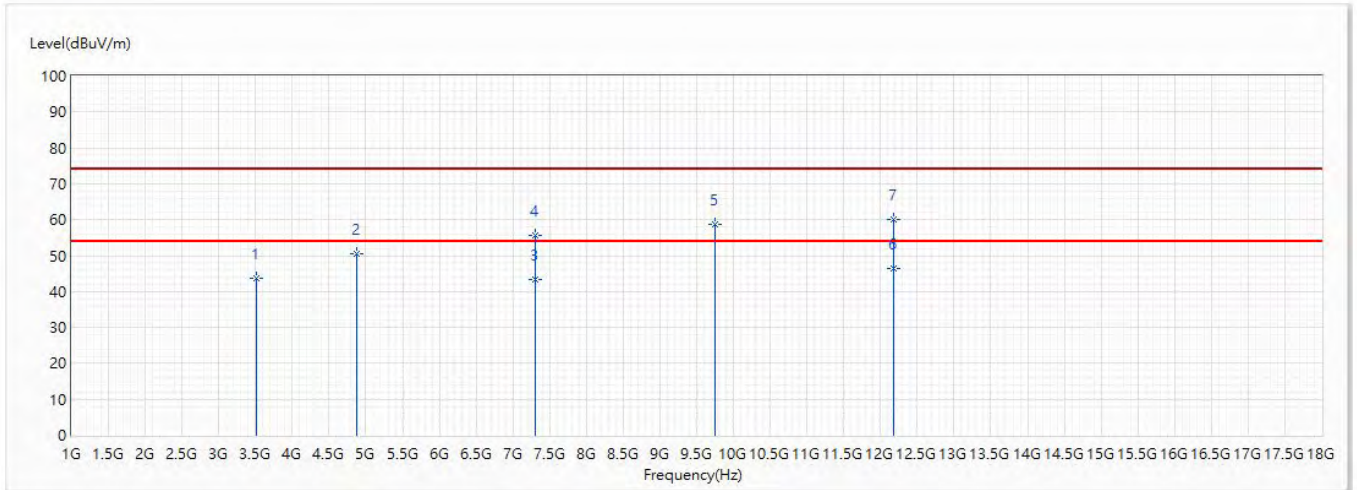


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	3370.1	44.89	74.00	-29.11	61.92	-17.03	PK
2	4874	49.94	74.00	-24.06	61.25	-11.31	PK
3	7311	41.95	54.00	-12.05	44.84	-2.89	AV
4	7311	56.52	74.00	-17.48	59.41	-2.89	PK
5	9748	58.87	74.00	-15.13	57.94	0.93	PK
* 6	12185	46.56	54.00	-7.44	41.46	5.10	AV
7	12185	59.60	74.00	-14.40	54.50	5.10	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission 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 form limit.

Model No	RT-AC68U V3	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/3/26
Test Mode	Mode 1: Transmit mode_CDD_AD P 1	Engineer	Scott
Polarity	Vertical	Temperature (°C)	23.5
Test Condition	802.11g_2437MHz	Humidity (%RH)	57.0

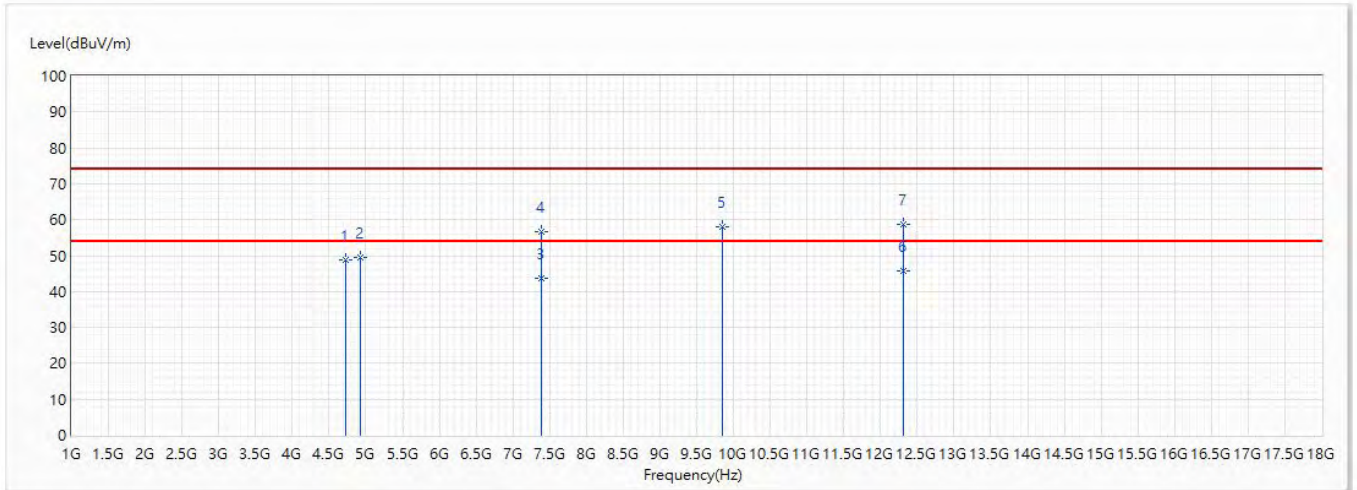


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	3506	43.80	74.00	-30.20	60.57	-16.77	PK
2	4874	50.55	74.00	-23.45	61.86	-11.31	PK
3	7311	43.36	54.00	-10.64	46.25	-2.89	AV
4	7311	55.58	74.00	-18.42	58.47	-2.89	PK
5	9748	58.75	74.00	-15.25	57.82	0.93	PK
* 6	12185	46.50	54.00	-7.50	41.40	5.10	AV
7	12185	60.08	74.00	-13.92	54.98	5.10	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission 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 form limit.

Model No	RT-AC68U V3	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/3/26
Test Mode	Mode 1: Transmit mode_CDD_AD P 1	Engineer	Scott
Polarity	Horizontal	Temperature (°C)	23.5
Test Condition	802.11g_2462MHz	Humidity (%RH)	57.0

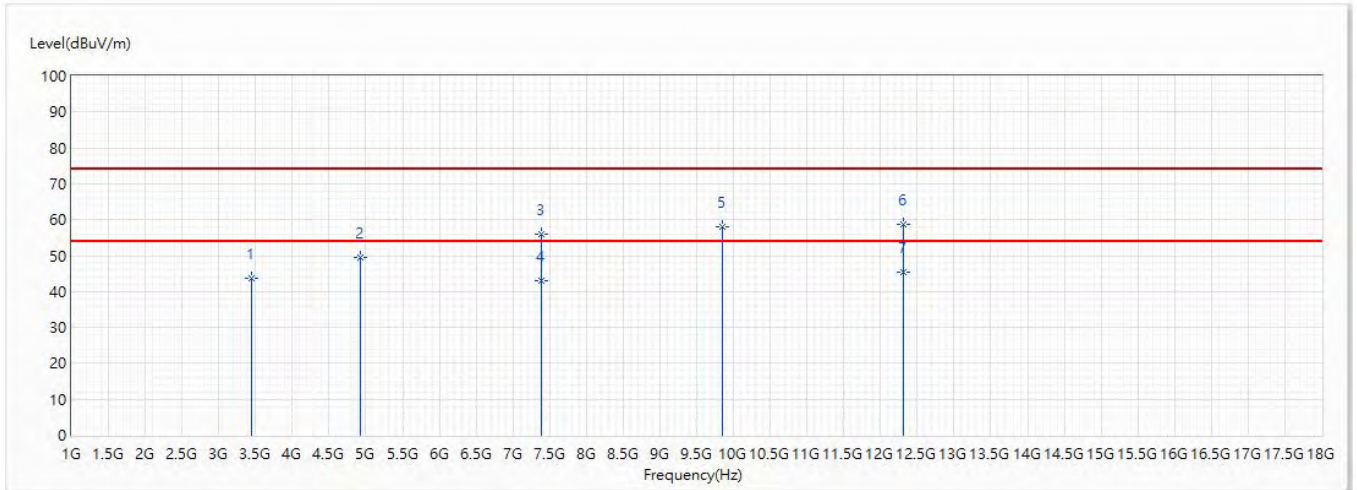


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4730	48.66	74.00	-25.34	60.44	-11.78	PK
2	4924	49.56	74.00	-24.44	60.74	-11.18	PK
3	7386	43.60	54.00	-10.40	46.10	-2.50	AV
4	7386	56.79	74.00	-17.21	59.29	-2.50	PK
5	9848	58.14	74.00	-15.86	57.08	1.06	PK
* 6	12310	45.62	54.00	-8.38	41.00	4.62	AV
7	12310	58.78	74.00	-15.22	54.16	4.62	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission 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 form limit.

Model No	RT-AC68U V3	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/3/26
Test Mode	Mode 1: Transmit mode_CDD_AD P 1	Engineer	Scott
Polarity	Vertical	Temperature (°C)	23.5
Test Condition	802.11g_2462MHz	Humidity (%RH)	57.0

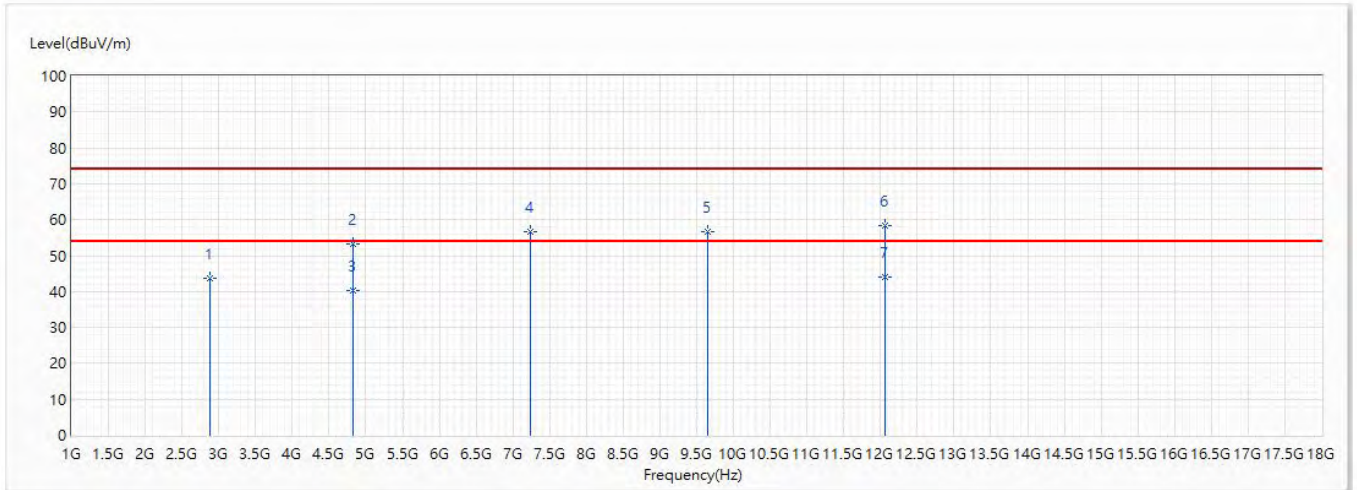


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	3440	43.79	74.00	-30.21	60.70	-16.91	PK
2	4924	49.49	74.00	-24.51	60.67	-11.18	PK
3	7386	56.11	74.00	-17.89	58.61	-2.50	PK
4	7386	43.14	54.00	-10.86	45.64	-2.50	AV
5	9848	58.05	74.00	-15.95	56.99	1.06	PK
6	12310	58.59	74.00	-15.41	53.97	4.62	PK
* 7	12310	45.54	54.00	-8.46	40.92	4.62	AV

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission 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 form limit.

Model No	RT-AC68U V3	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/3/26
Test Mode	Mode 1: Transmit mode_CDD_ADP 1	Engineer	Scott
Polarity	Horizontal	Temperature (°C)	23.5
Test Condition	802.11n(20M)_2412MHz	Humidity (%RH)	57.0

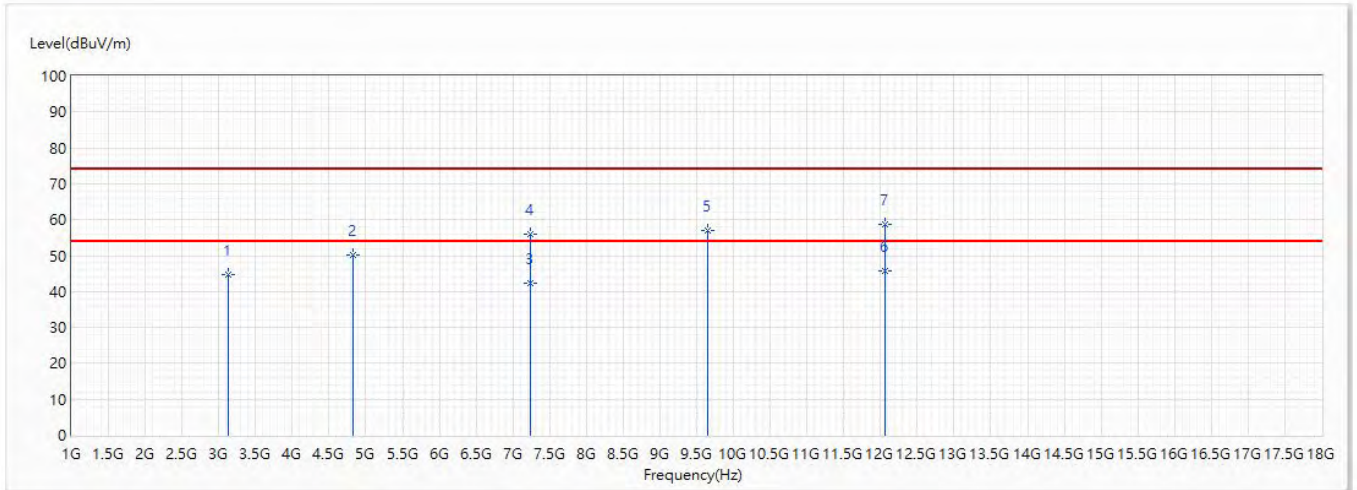


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2883.8	43.82	74.00	-30.18	61.90	-18.08	PK
2	4824	53.24	74.00	-20.76	64.72	-11.48	PK
3	4824	40.15	54.00	-13.85	51.63	-11.48	AV
4	7236	56.68	74.00	-17.32	59.81	-3.13	PK
5	9648	56.62	74.00	-17.38	55.76	0.86	PK
6	12060	58.35	74.00	-15.65	52.99	5.36	PK
* 7	12060	43.89	54.00	-10.11	38.53	5.36	AV

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission 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 form limit.

Model No	RT-AC68U V3	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/3/26
Test Mode	Mode 1: Transmit mode_CDD_AD P 1	Engineer	Scott
Polarity	Vertical	Temperature (°C)	23.5
Test Condition	802.11n(20M)_2412MHz	Humidity (%RH)	57.0

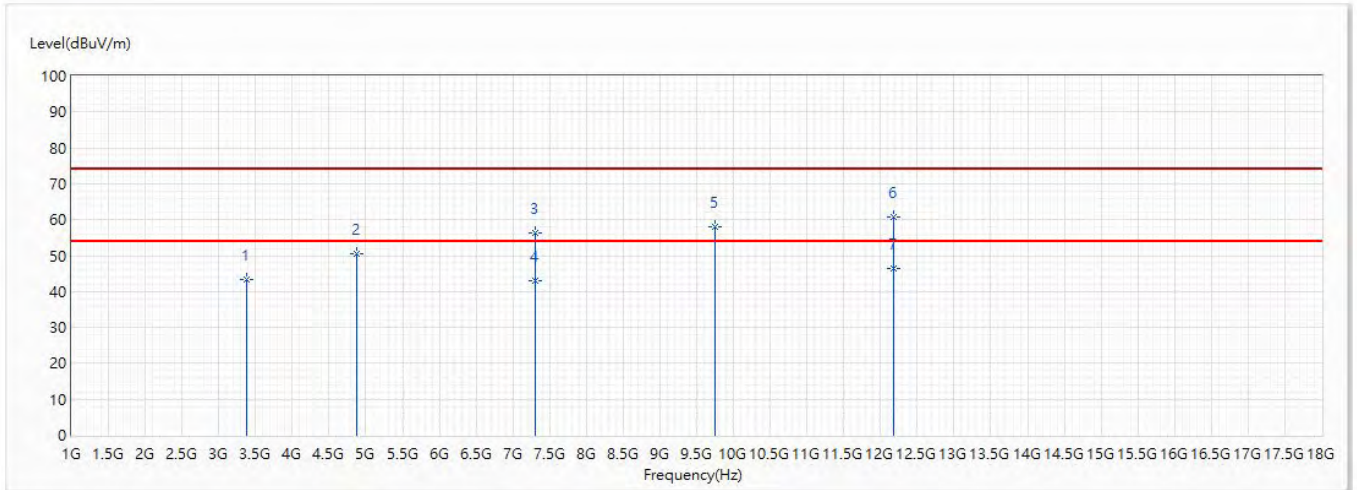


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	3121	44.67	74.00	-29.33	62.11	-17.44	PK
2	4824	50.04	74.00	-23.96	61.52	-11.48	PK
3	7236	42.33	54.00	-11.67	45.46	-3.13	AV
4	7236	55.85	74.00	-18.15	58.98	-3.13	PK
5	9648	56.91	74.00	-17.09	56.05	0.86	PK
* 6	12060	45.78	54.00	-8.22	40.42	5.36	AV
7	12060	58.62	74.00	-15.38	53.26	5.36	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission 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 form limit.

Model No	RT-AC68U V3	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/3/30
Test Mode	Mode 1: Transmit mode_CDD_AD P 1	Engineer	Scott
Polarity	Horizontal	Temperature (°C)	23.5
Test Condition	802.11n(20M)_2437MHz	Humidity (%RH)	57.0

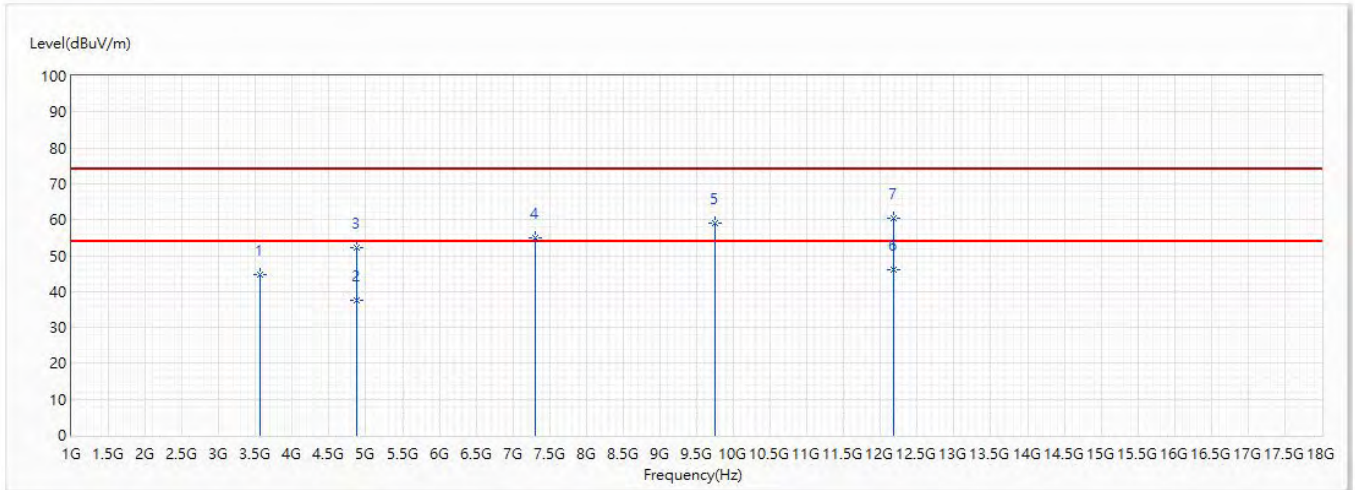


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	3385	43.50	74.00	-30.50	60.51	-17.01	PK
2	4874	50.37	74.00	-23.63	61.68	-11.31	PK
3	7311	56.33	74.00	-17.67	59.22	-2.89	PK
4	7311	42.85	54.00	-11.15	45.74	-2.89	AV
5	9748	58.16	74.00	-15.84	57.23	0.93	PK
6	12185	60.60	74.00	-13.40	55.50	5.10	PK
* 7	12185	46.58	54.00	-7.42	41.48	5.10	AV

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission 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 form limit.

Model No	RT-AC68U V3	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/3/30
Test Mode	Mode 1: Transmit mode_CDD_AD P 1	Engineer	Scott
Polarity	Vertical	Temperature (°C)	23.5
Test Condition	802.11n(20M)_2437MHz	Humidity (%RH)	57.0



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	3568.2	44.85	74.00	-29.15	61.36	-16.51	PK
2	4874	37.69	54.00	-16.31	49.00	-11.31	AV
3	4874	52.35	74.00	-21.65	63.66	-11.31	PK
4	7311	54.86	74.00	-19.14	57.75	-2.89	PK
5	9748	59.08	74.00	-14.92	58.15	0.93	PK
* 6	12185	46.15	54.00	-7.85	41.05	5.10	AV
7	12185	60.25	74.00	-13.75	55.15	5.10	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission 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 form limit.

Model No	RT-AC68U V3	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/3/30
Test Mode	Mode 1: Transmit mode_CDD_AD P 1	Engineer	Scott
Polarity	Horizontal	Temperature (°C)	23.5
Test Condition	802.11n(20M)_2462MHz	Humidity (%RH)	57.0

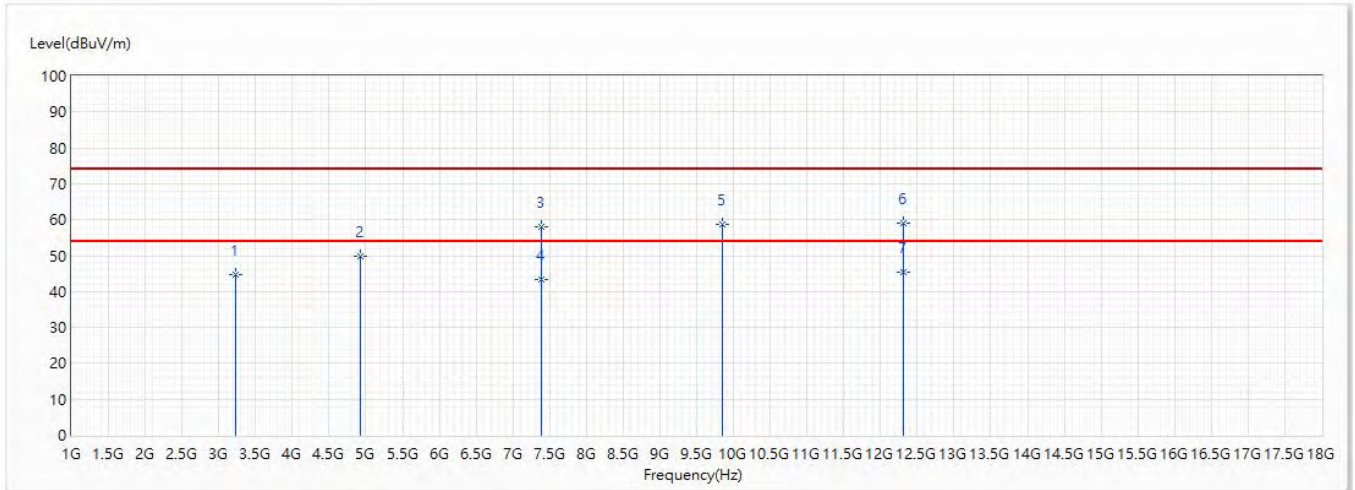


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	3433	44.15	74.00	-29.85	61.07	-16.92	PK
2	4924	50.39	74.00	-23.61	61.57	-11.18	PK
3	7386	44.66	54.00	-9.34	47.16	-2.50	AV
4	7386	54.32	74.00	-19.68	56.82	-2.50	PK
5	9848	56.26	74.00	-17.74	55.20	1.06	PK
* 6	12310	45.11	54.00	-8.89	40.49	4.62	AV
7	12310	59.88	74.00	-14.12	55.26	4.62	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission 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 form limit.

Model No	RT-AC68U V3	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/3/30
Test Mode	Mode 1: Transmit mode_CDD_ADP 1	Engineer	Scott
Polarity	Vertical	Temperature (°C)	23.5
Test Condition	802.11n(20M)_2462MHz	Humidity (%RH)	57.0

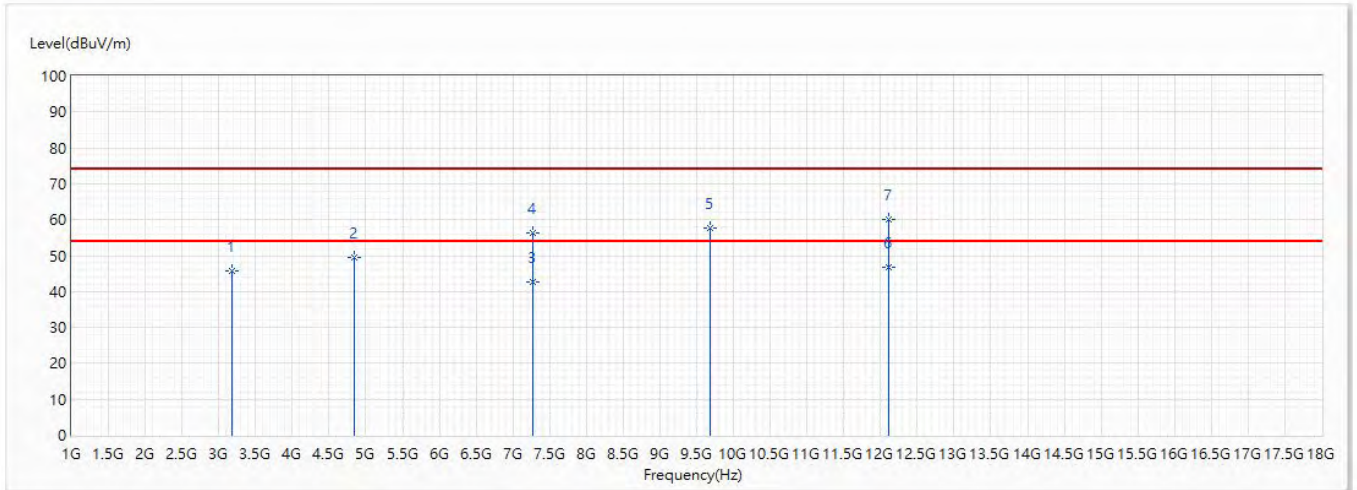


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	3226.6	44.72	74.00	-29.28	62.00	-17.28	PK
2	4924	49.75	74.00	-24.25	60.93	-11.18	PK
3	7386	57.87	74.00	-16.13	60.37	-2.50	PK
4	7386	43.48	54.00	-10.52	45.98	-2.50	AV
5	9848	58.67	74.00	-15.33	57.61	1.06	PK
6	12310	59.10	74.00	-14.90	54.48	4.62	PK
* 7	12310	45.45	54.00	-8.55	40.83	4.62	AV

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission 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 form limit.

Model No	RT-AC68U V3	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/3/30
Test Mode	Mode 1: Transmit mode_CDD_AD P 1	Engineer	Scott
Polarity	Horizontal	Temperature (°C)	23.5
Test Condition	802.11n(40M)_2422MHz	Humidity (%RH)	57.0



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	3181	45.85	74.00	-28.15	63.22	-17.37	PK
2	4844	49.58	74.00	-24.42	60.99	-11.41	PK
3	7266	42.64	54.00	-11.36	45.68	-3.04	AV
4	7266	56.15	74.00	-17.85	59.19	-3.04	PK
5	9688	57.81	74.00	-16.19	56.96	0.85	PK
* 6	12110	46.61	54.00	-7.39	41.42	5.19	AV
7	12110	60.13	74.00	-13.87	54.94	5.19	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission 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 form limit.

Model No	RT-AC68U V3	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/3/30
Test Mode	Mode 1: Transmit mode_CDD_AD P 1	Engineer	Scott
Polarity	Vertical	Temperature (°C)	23.5
Test Condition	802.11n(40M)_2422MHz	Humidity (%RH)	57.0

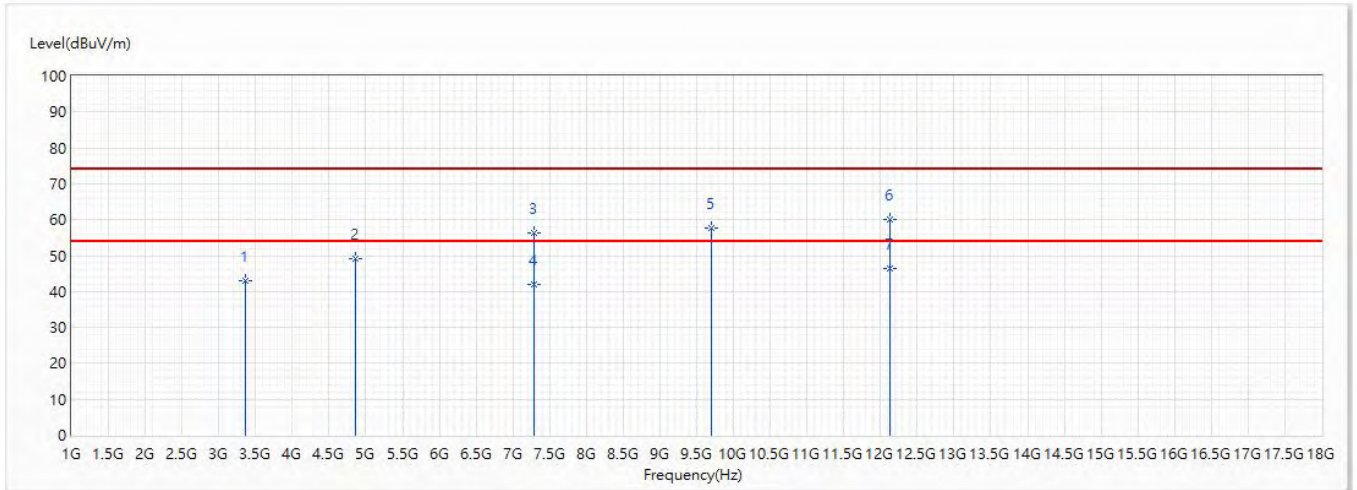


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	3655	44.52	74.00	-29.48	60.65	-16.13	PK
2	4844	50.80	74.00	-23.20	62.21	-11.41	PK
3	7266	44.25	54.00	-9.75	47.29	-3.04	AV
4	7266	55.10	74.00	-18.90	58.14	-3.04	PK
5	9688	56.29	74.00	-17.71	55.44	0.85	PK
* 6	12110	46.85	54.00	-7.15	41.66	5.19	AV
7	12110	60.30	74.00	-13.70	55.11	5.19	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission 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 form limit.

Model No	RT-AC68U V3	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/3/30
Test Mode	Mode 1: Transmit mode_CDD_ADP 1	Engineer	Scott
Polarity	Horizontal	Temperature (°C)	23.5
Test Condition	802.11n(40M)_2437MHz	Humidity (%RH)	57.0



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	3370.3	43.12	74.00	-30.88	60.15	-17.03	PK
2	4859	48.98	74.00	-25.02	60.34	-11.36	PK
3	7281	56.15	74.00	-17.85	59.15	-3.00	PK
4	7281	41.97	54.00	-12.03	44.97	-3.00	AV
5	9703	57.83	74.00	-16.17	56.98	0.85	PK
6	12125	60.15	74.00	-13.85	54.98	5.17	PK
* 7	12125	46.57	54.00	-7.43	41.40	5.17	AV

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission 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 form limit.

Model No	RT-AC68U V3	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/3/30
Test Mode	Mode 1: Transmit mode_CDD_AD P 1	Engineer	Scott
Polarity	Vertical	Temperature (°C)	23.5
Test Condition	802.11n(40M)_2437MHz	Humidity (%RH)	57.0

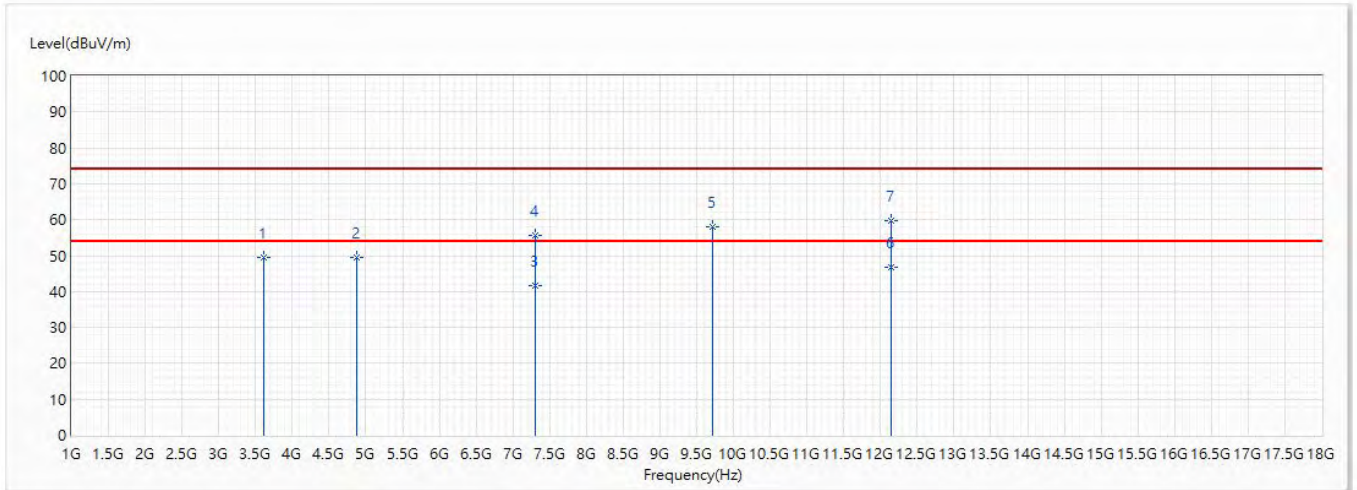


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	3618.4	44.25	74.00	-29.75	60.55	-16.30	PK
2	4859	50.25	74.00	-23.75	61.61	-11.36	PK
3	7281	41.77	54.00	-12.23	44.77	-3.00	AV
4	7281	55.68	74.00	-18.32	58.68	-3.00	PK
5	9703	57.17	74.00	-16.83	56.32	0.85	PK
* 6	12125	46.45	54.00	-7.55	41.28	5.17	AV
7	12125	60.49	74.00	-13.51	55.32	5.17	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission 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 form limit.

Model No	RT-AC68U V3	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/3/30
Test Mode	Mode 1: Transmit mode_CDD_AD P 1	Engineer	Scott
Polarity	Horizontal	Temperature (°C)	23.5
Test Condition	802.11n(40M)_2452MHz	Humidity (%RH)	57.0

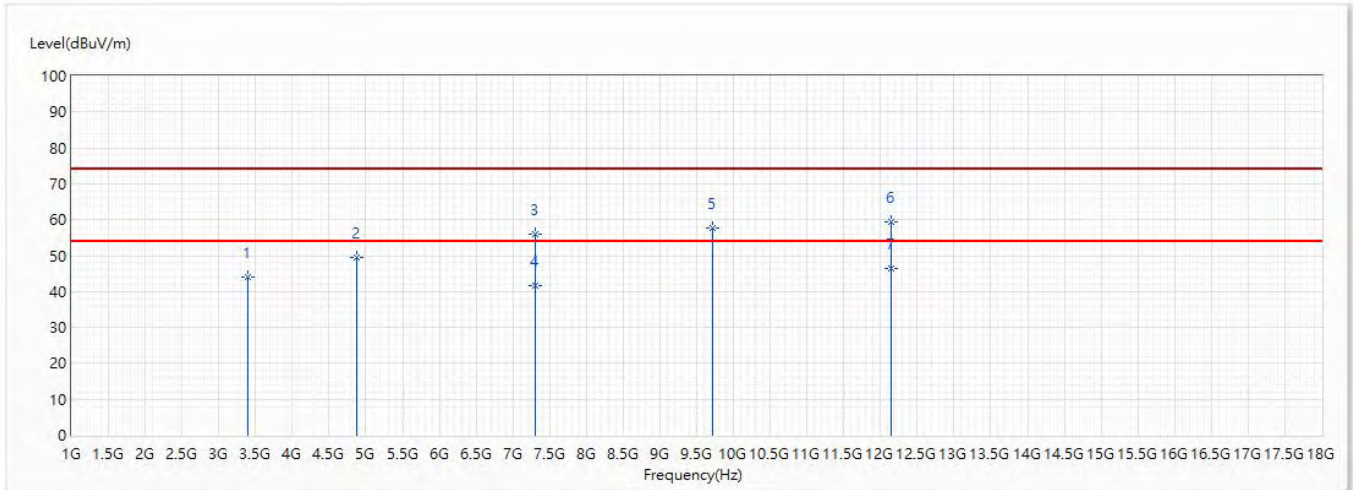


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	3604.4	49.40	74.00	-24.60	65.76	-16.36	PK
2	4874	49.40	74.00	-24.60	60.71	-11.31	PK
3	7296	41.75	54.00	-12.25	44.71	-2.96	AV
4	7296	55.53	74.00	-18.47	58.49	-2.96	PK
5	9718	58.11	74.00	-15.89	57.23	0.88	PK
* 6	12140	46.89	54.00	-7.11	41.73	5.16	AV
7	12140	59.66	74.00	-14.34	54.50	5.16	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission 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 form limit.

Model No	RT-AC68U V3	Site	CB2-H
Test Voltage	AC 120V/60Hz	Test Date	2020/3/30
Test Mode	Mode 1: Transmit mode_CDD_AD P 1	Engineer	Scott
Polarity	Vertical	Temperature (°C)	23.5
Test Condition	802.11n(40M)_2452MHz	Humidity (%RH)	57.0



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	3398.1	44.01	74.00	-29.99	61.01	-17.00	PK
2	4874	49.32	74.00	-24.68	60.63	-11.31	PK
3	7296	56.01	74.00	-17.99	58.97	-2.96	PK
4	7296	41.71	54.00	-12.29	44.67	-2.96	AV
5	9718	57.75	74.00	-16.25	56.87	0.88	PK
6	12140	59.30	74.00	-14.70	54.14	5.16	PK
* 7	12140	46.29	54.00	-7.71	41.13	5.16	AV

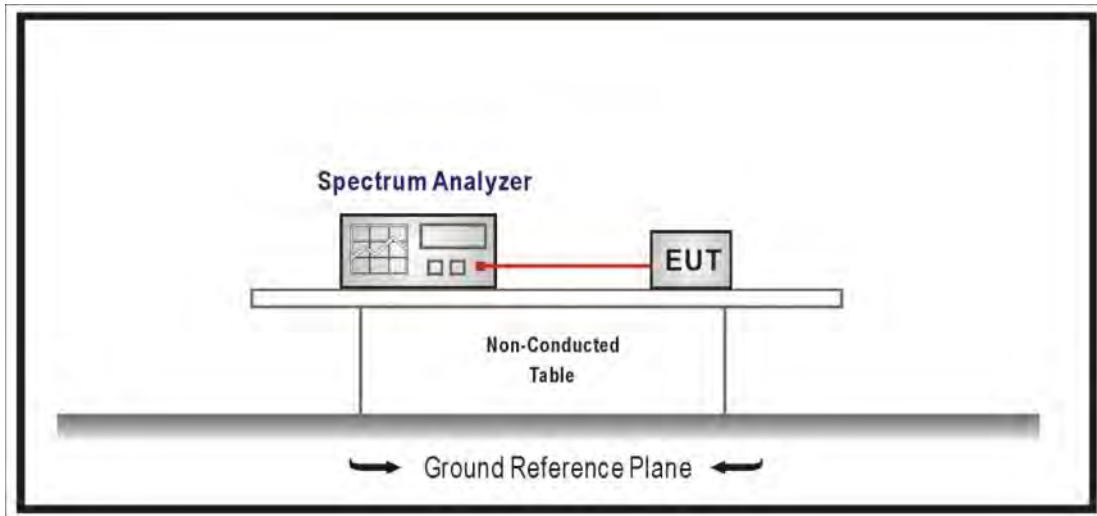
Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission 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 form 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 v05r02 for compliance to FCC 47CFR 15.247 requirements. Set RBW = 100 kHz, Set VBW > RBW, scan up through 10th harmonic.

5.4. Test Specification

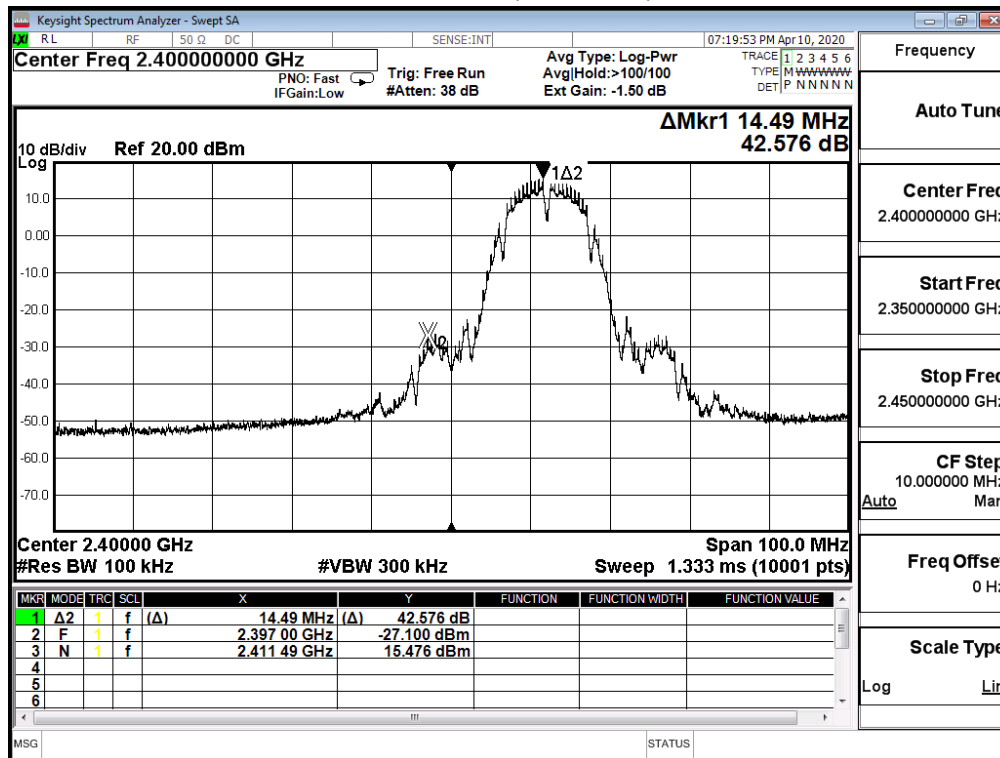
According to FCC Part 15 Subpart C Paragraph 15.247: 2019

5.5. Test Result

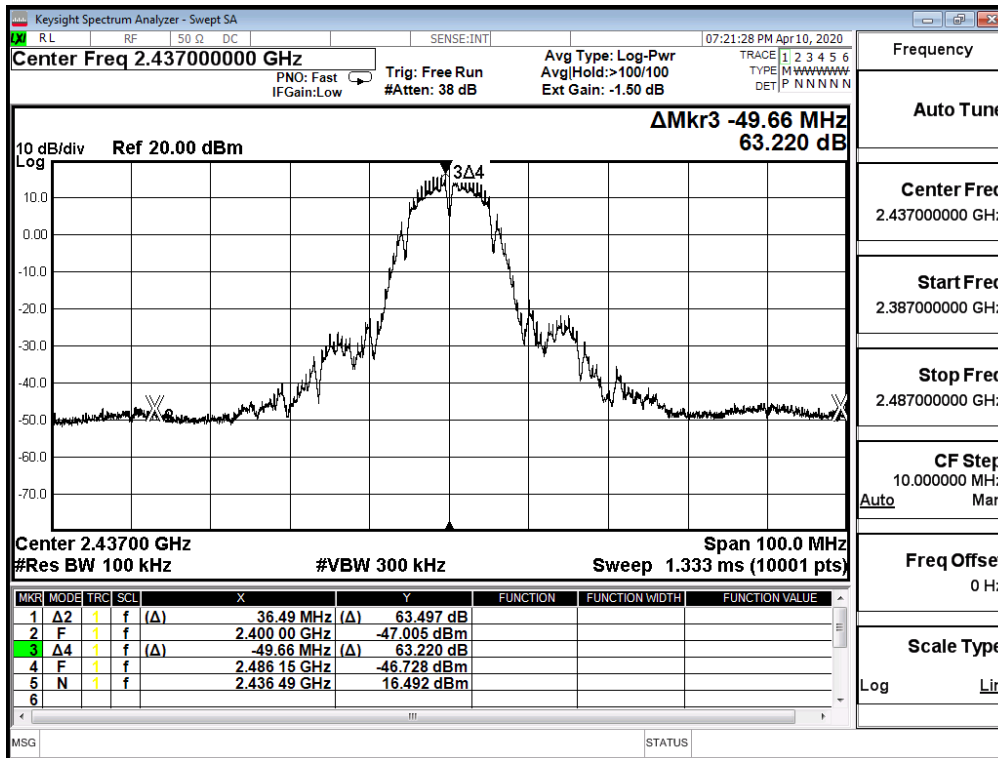
Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit mode_CDD_AD P 1		
Date of Test	2020/04/10	Test Site	SR12-H
Test Temperature	22.5°C	Test Humidity	57.0%

IEEE 802.11b (ANT 0)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	42.575	≥30	Pass
6	2437	63.220	≥30	Pass
11	2462	60.976	≥30	Pass

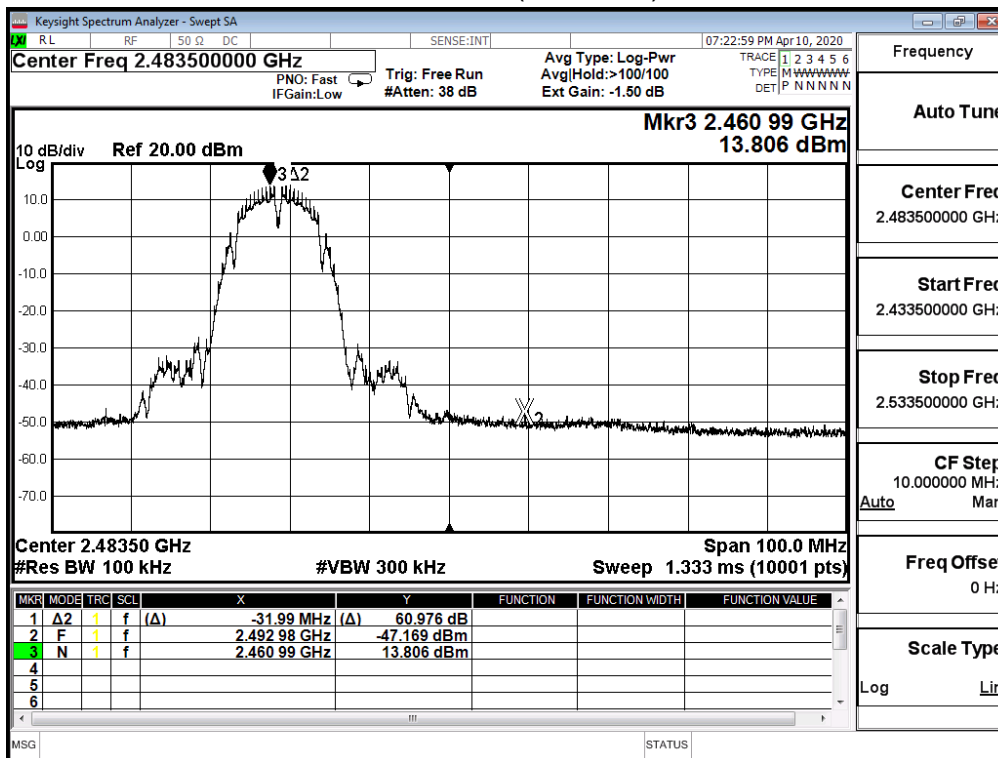
Channel 1 (2412MHz)



Channel 6 (2437MHz)



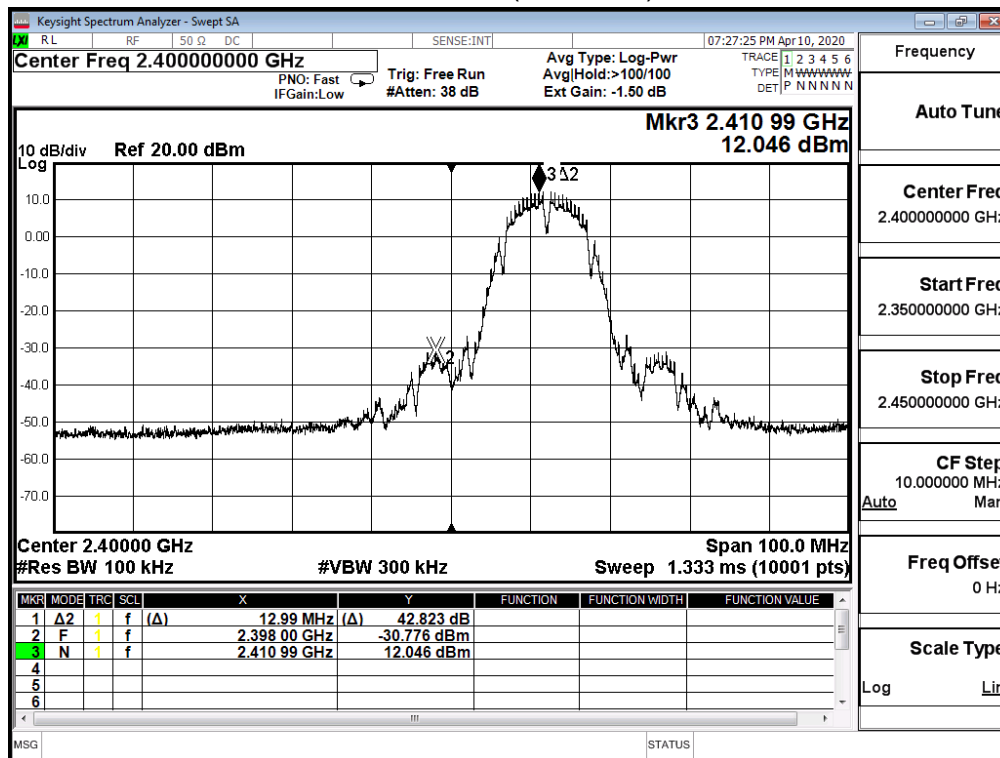
Channel 11 (2462MHz)



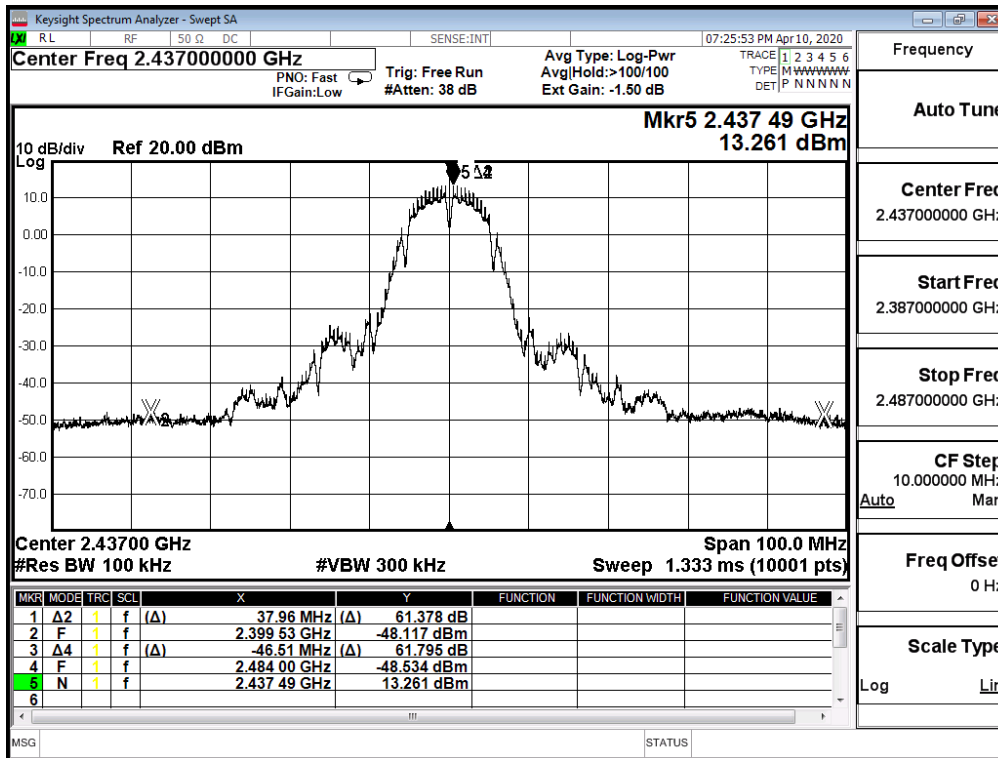
Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit mode_CDD_AD P 1		
Date of Test	2020/04/10	Test Site	SR12-H
Test Temperature	22.5°C	Test Humidity	57.0%

IEEE 802.11b (ANT 1)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	42.823	≥30	Pass
6	2437	61.378	≥30	Pass
11	2462	55.010	≥30	Pass

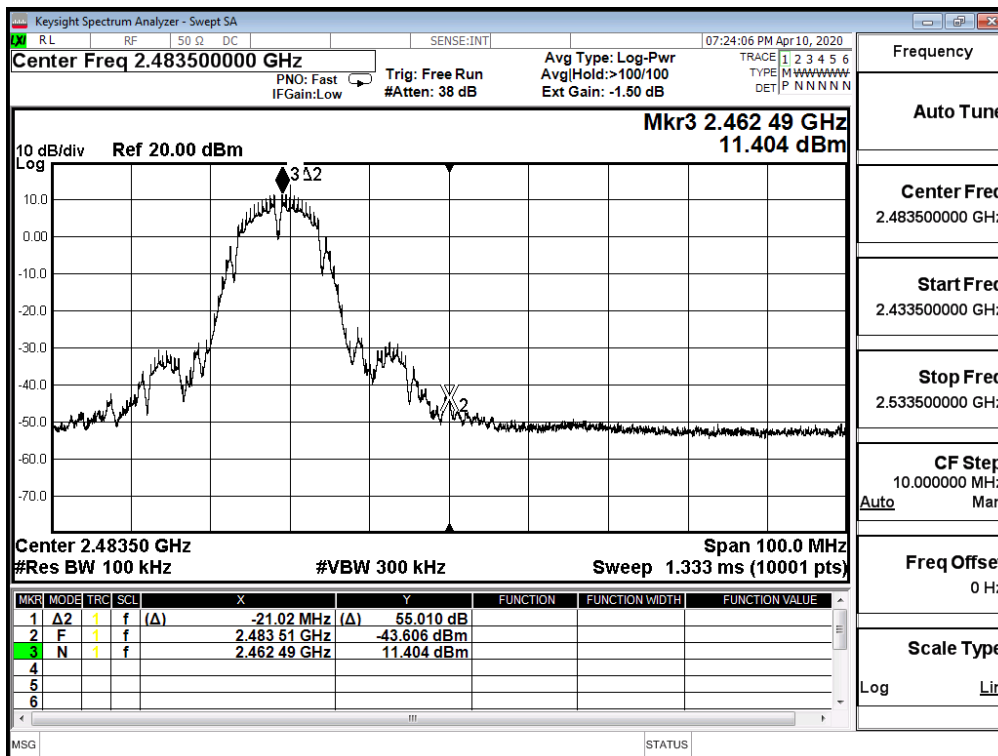
Channel 1 (2412MHz)



Channel 6 (2437MHz)



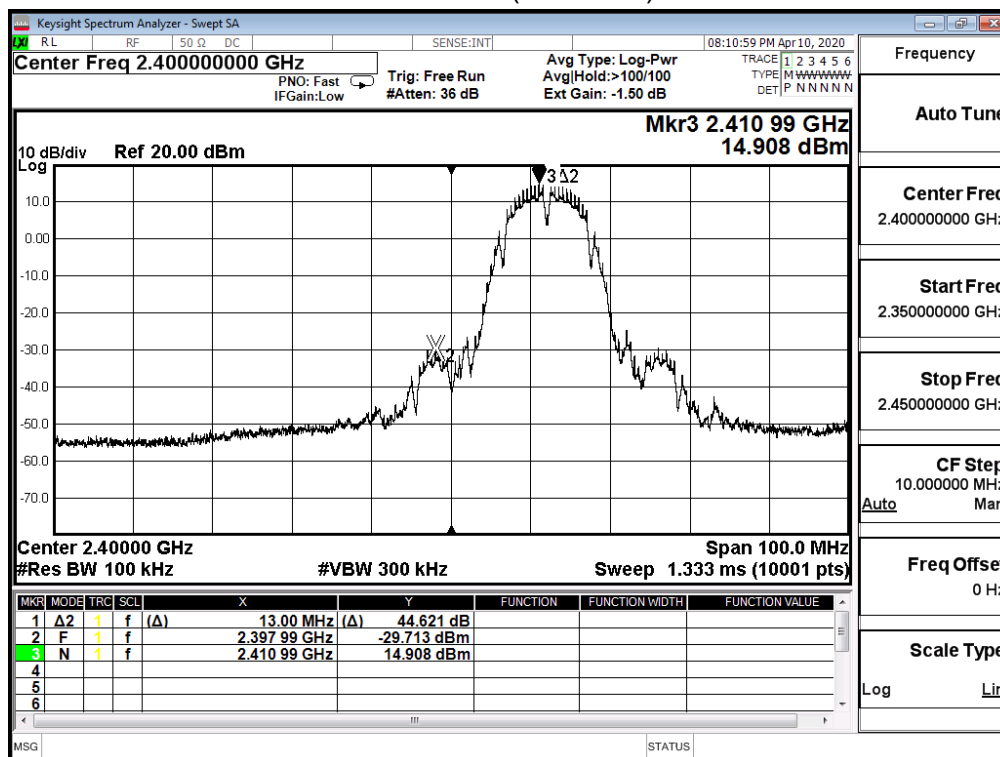
Channel 11 (2462MHz)



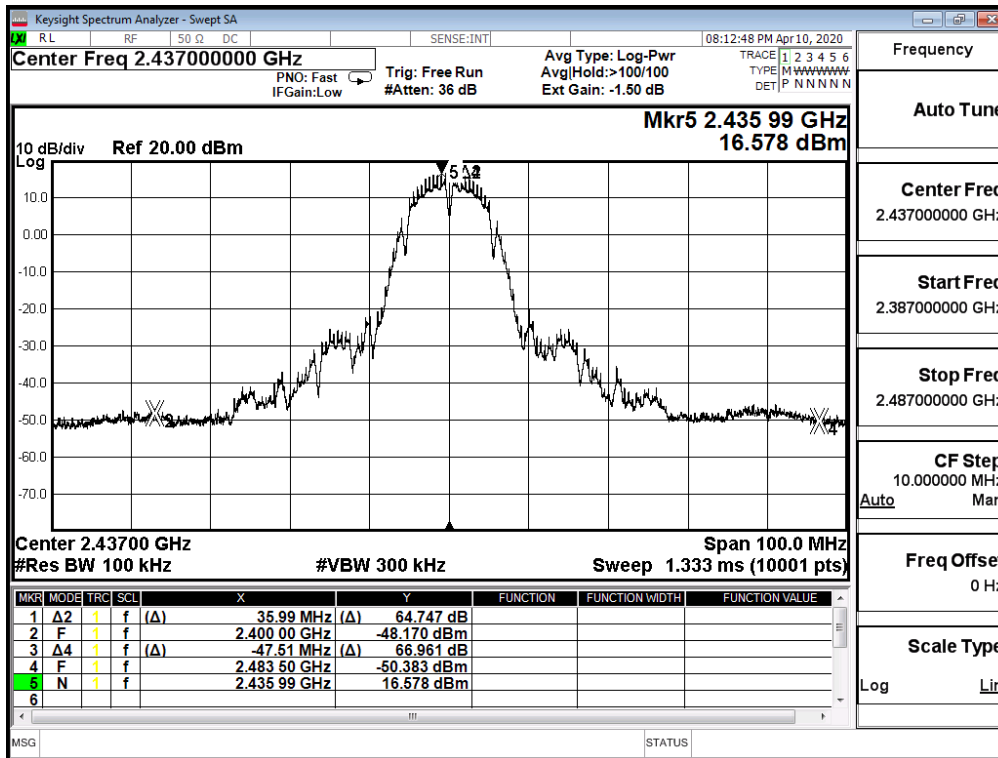
Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit mode_CDD_AD P 1		
Date of Test	2020/04/10	Test Site	SR12-H
Test Temperature	22.5°C	Test Humidity	57.0%

IEEE 802.11b (ANT 2)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	44.621	≥30	Pass
6	2437	64.747	≥30	Pass
11	2462	62.480	≥30	Pass

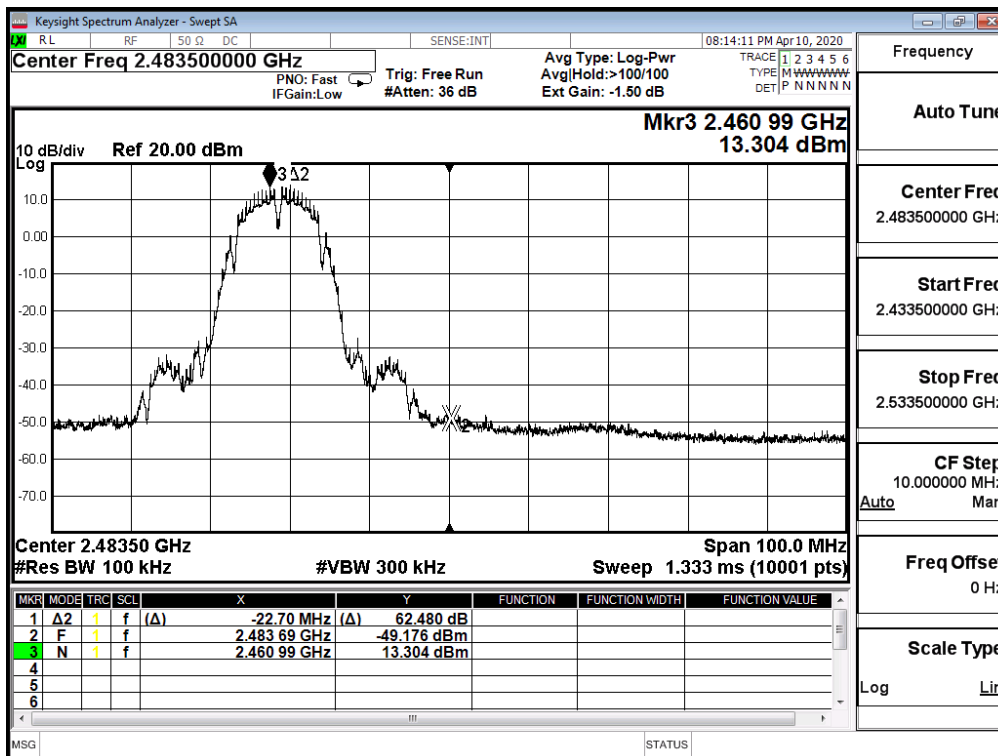
Channel 1 (2412MHz)



Channel 6 (2437MHz)



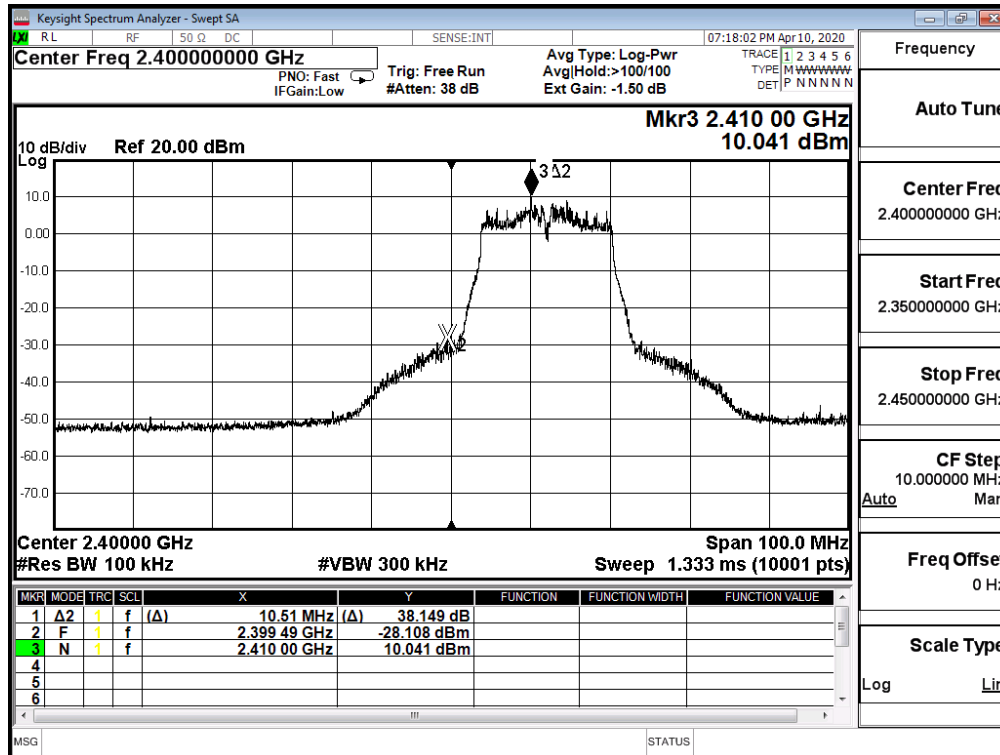
Channel 11 (2462MHz)



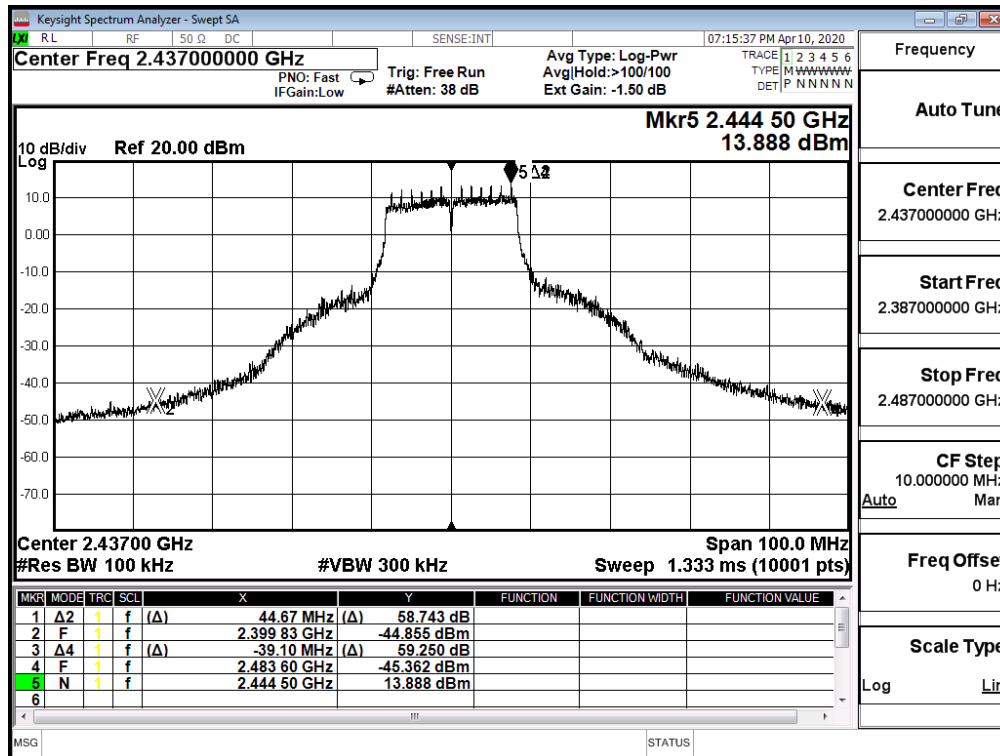
Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit mode_CDD_ADP 1		
Date of Test	2020/04/10	Test Site	SR12-H
Test Temperature	22.5°C	Test Humidity	57.0%

IEEE 802.11g (ANT 0)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	38.149	≥30	Pass
6	2437	58.743	≥30	Pass
11	2462	51.921	≥30	Pass

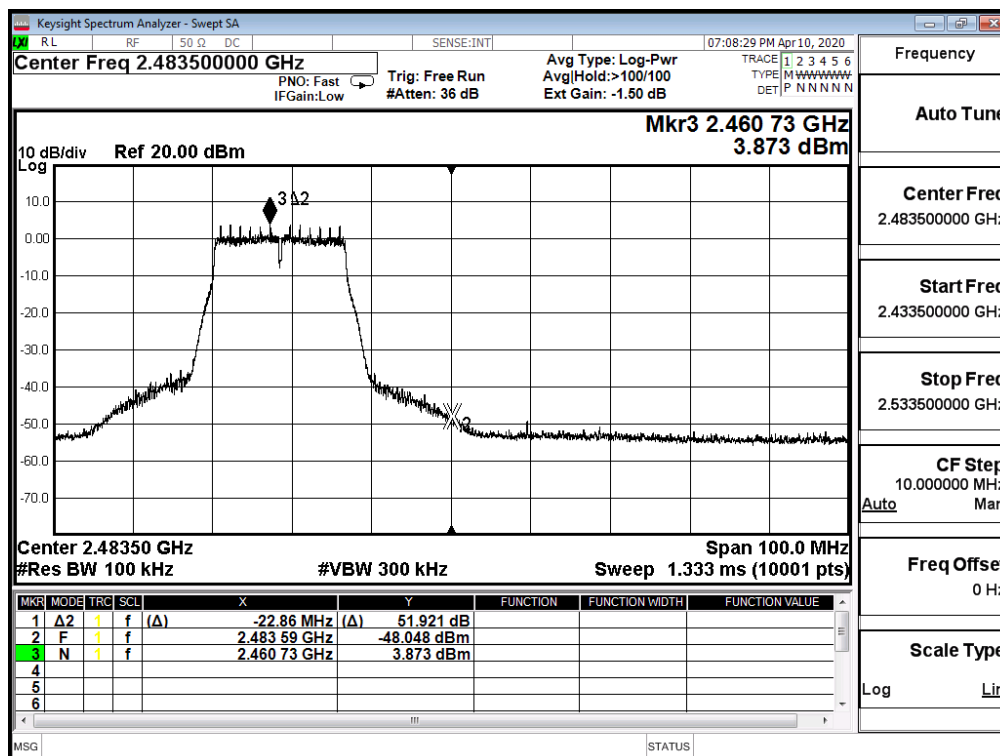
Channel 1 (2412MHz)



Channel 6 (2437MHz)



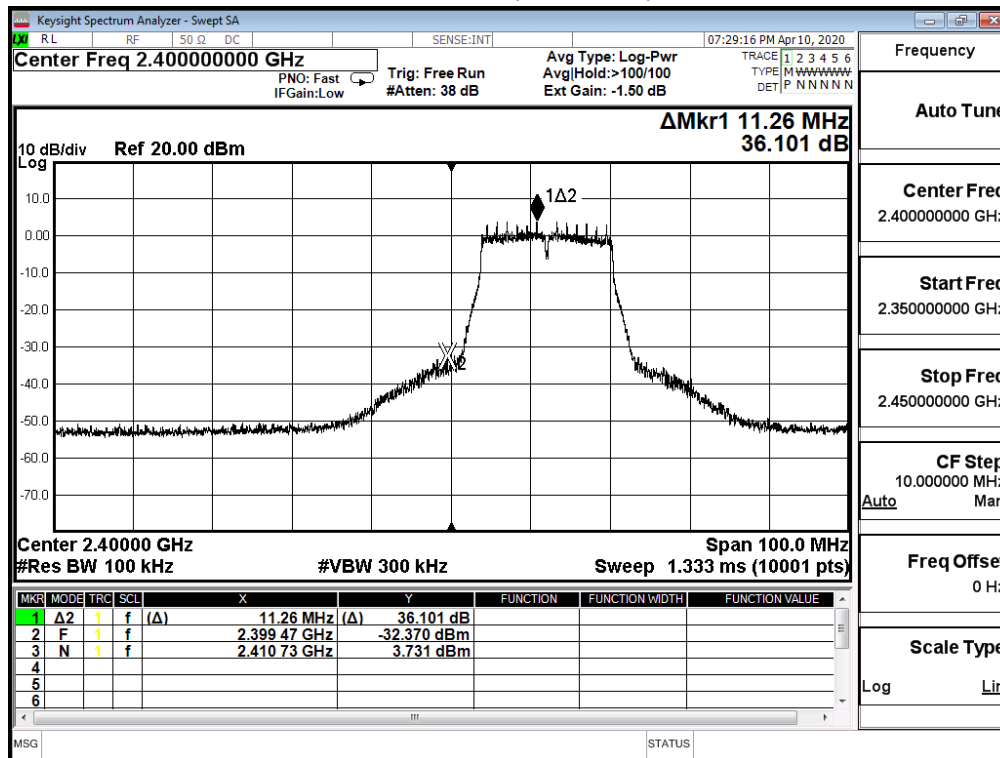
Channel 11 (2462MHz)



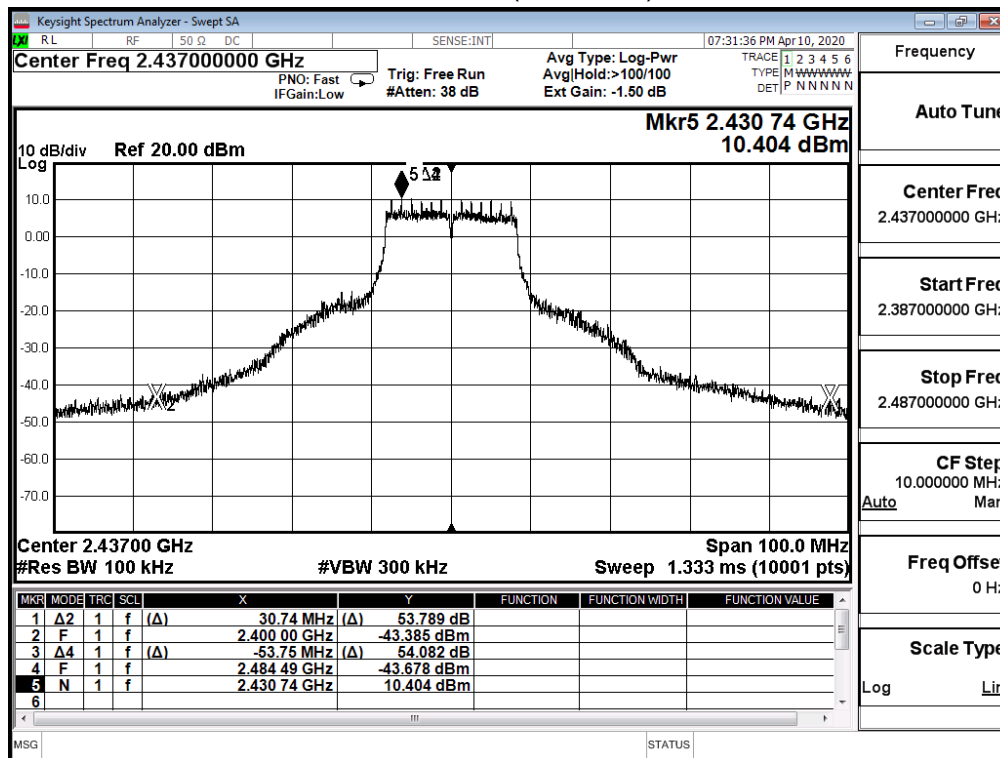
Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit mode_CDD_AD P 1		
Date of Test	2020/04/10	Test Site	SR12-H
Test Temperature	22.5°C	Test Humidity	57.0%

IEEE 802.11g (ANT 1)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	36.142	≥30	Pass
6	2437	53.789	≥30	Pass
11	2462	51.991	≥30	Pass

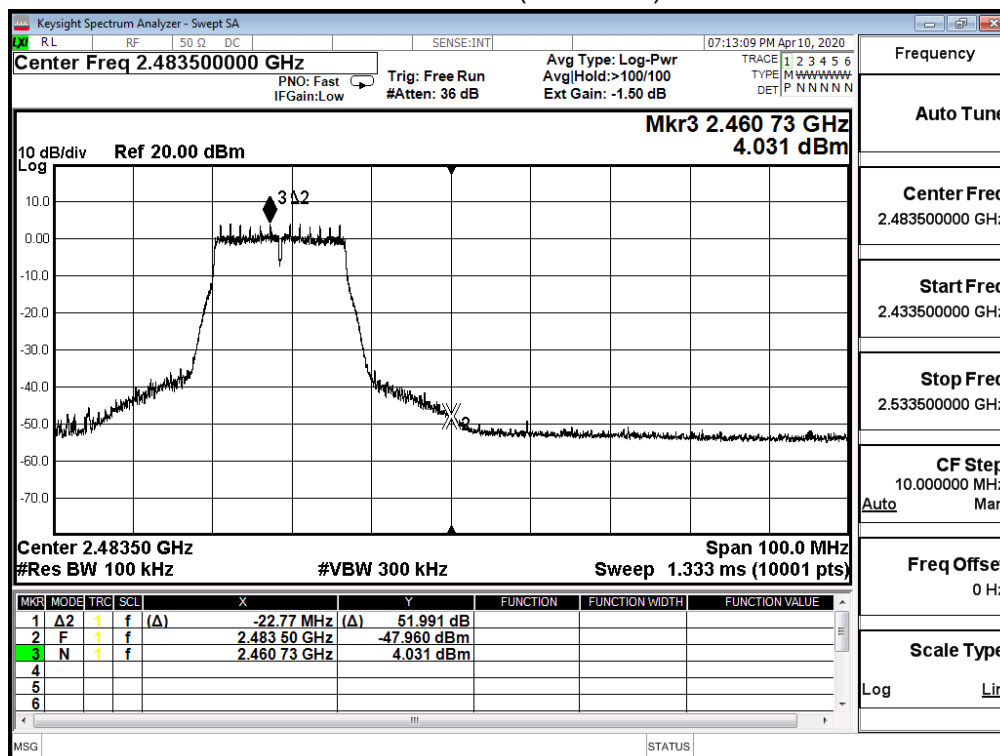
Channel 1 (2412MHz)



Channel 6 (2437MHz)



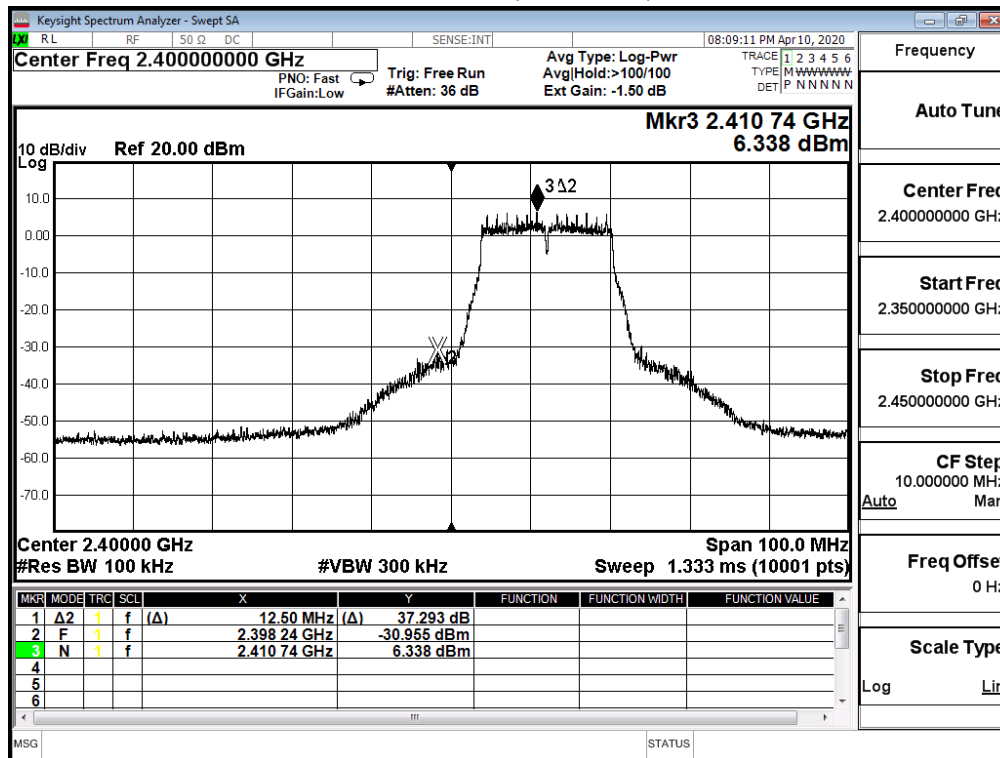
Channel 11 (2462MHz)



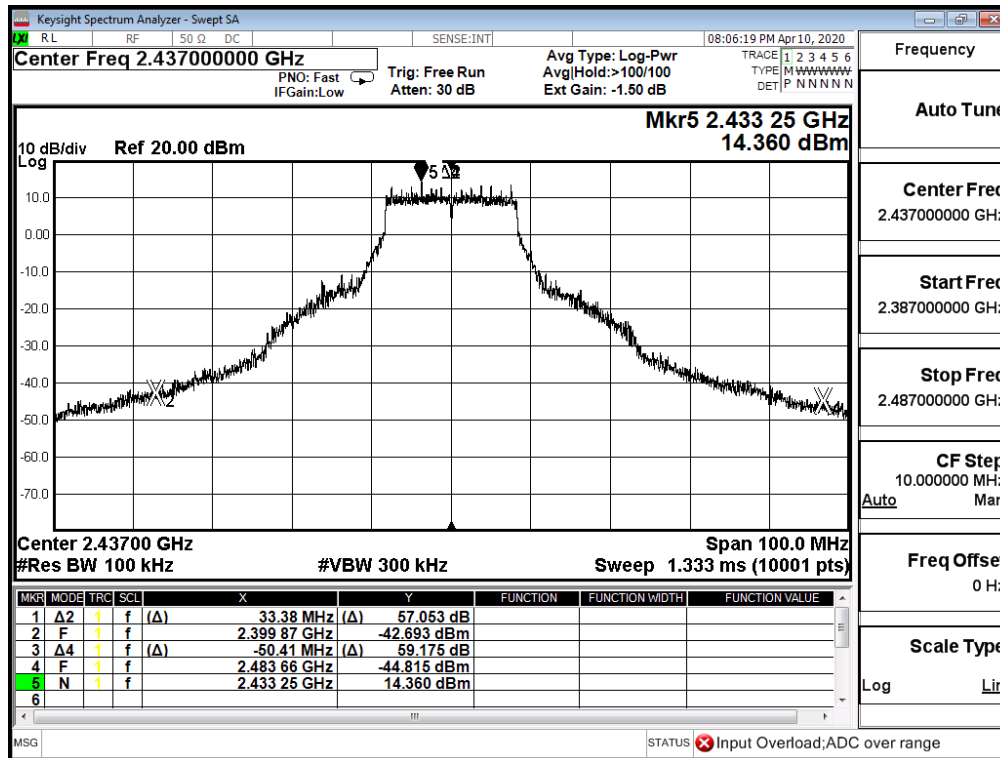
Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit mode_CDD_AD P 1		
Date of Test	2020/04/10	Test Site	SR12-H
Test Temperature	22.5°C	Test Humidity	57.0%

IEEE 802.11g (ANT 2)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	37.293	≥30	Pass
6	2437	57.053	≥30	Pass
11	2462	50.467	≥30	Pass

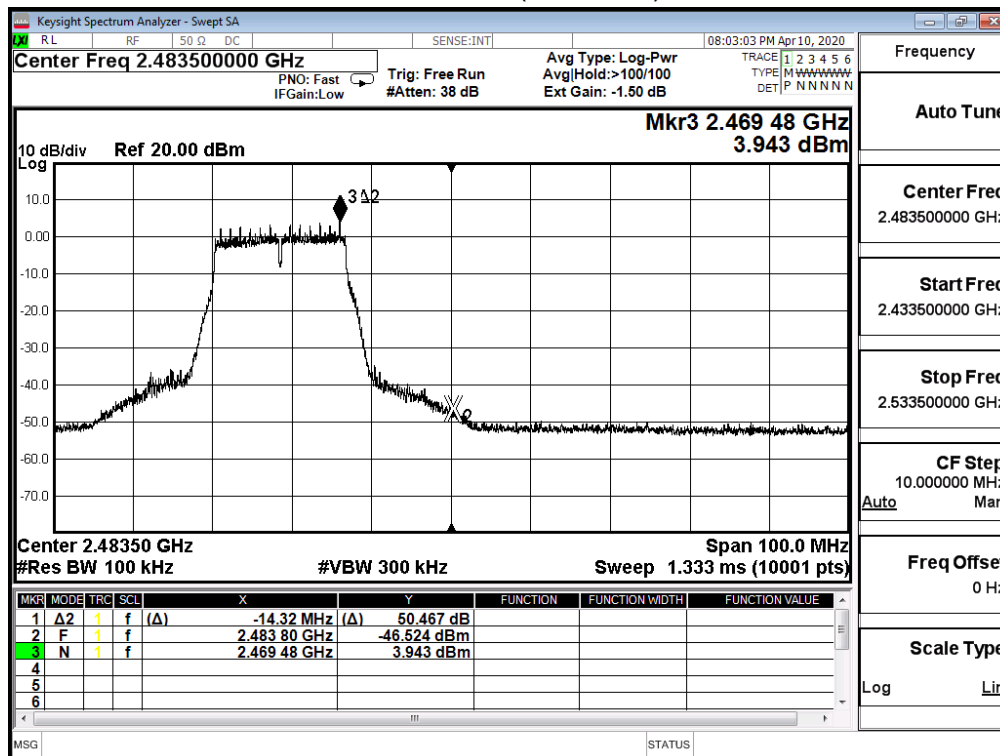
Channel 1 (2412MHz)



Channel 6 (2437MHz)



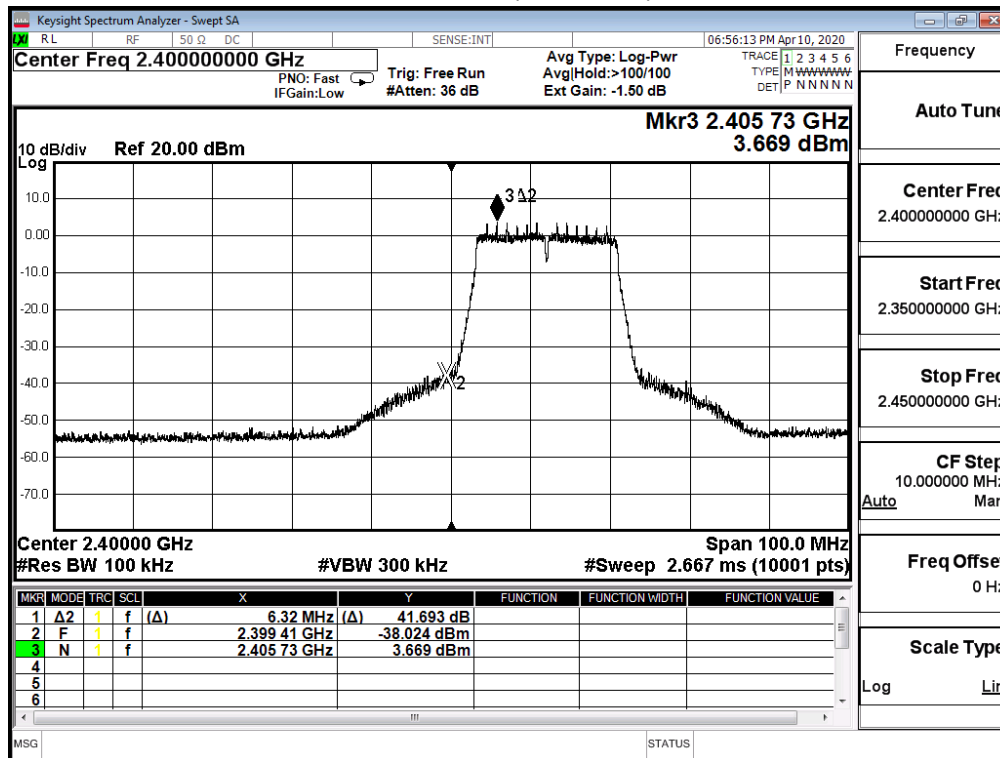
Channel 11 (2462MHz)



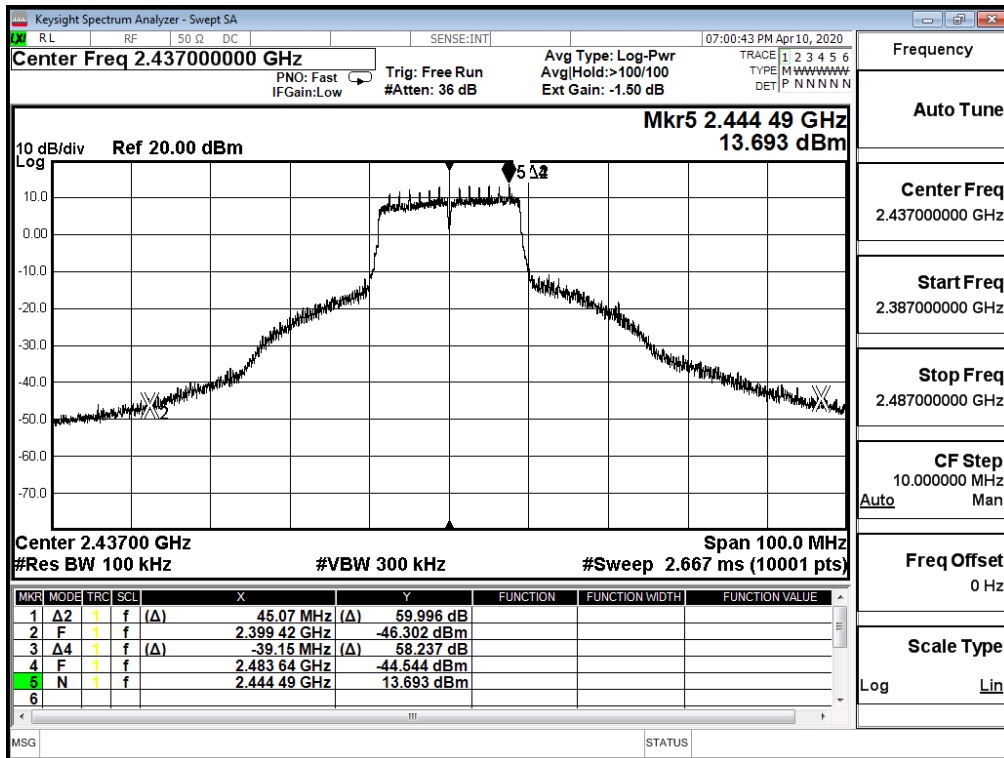
Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit mode_CDD_AD P 1		
Date of Test	2020/04/10	Test Site	SR12-H
Test Temperature	22.5°C	Test Humidity	57.0%

IEEE 802.11n 20M (ANT 0)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	41.693	≥30	Pass
6	2437	58.237	≥30	Pass
11	2462	50.793	≥30	Pass

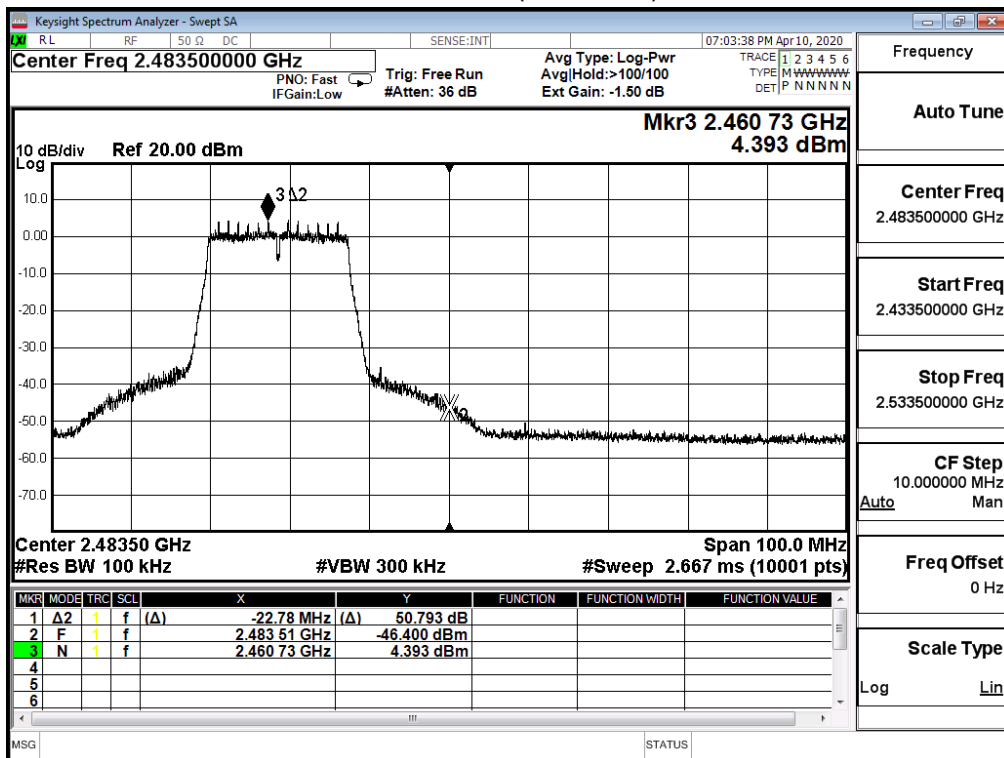
Channel 1 (2412MHz)



Channel 6 (2437MHz)



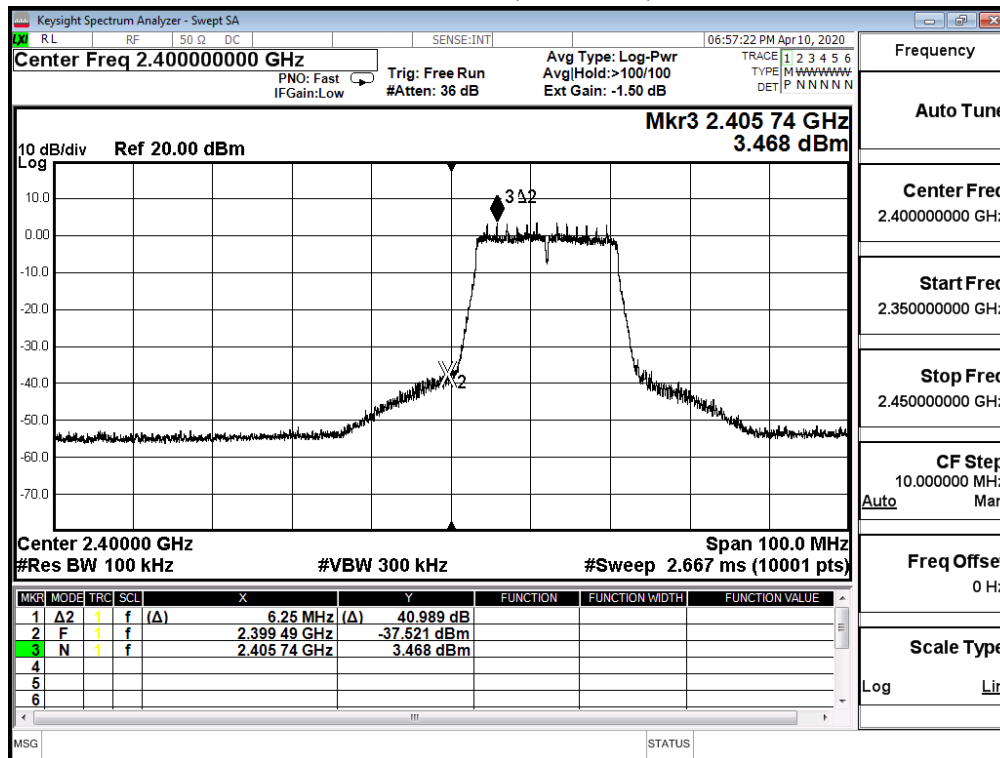
Channel 11 (2462MHz)



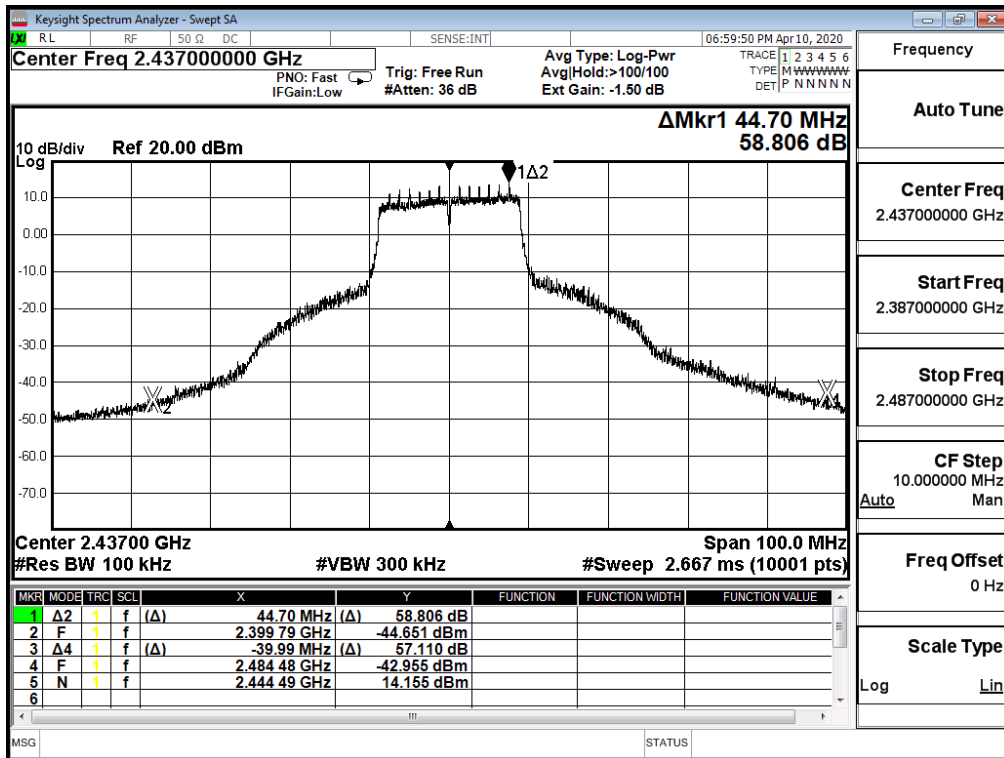
Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit mode_CDD_AD P 1		
Date of Test	2020/04/10	Test Site	SR12-H
Test Temperature	22.5°C	Test Humidity	57.0%

IEEE 802.11n 20M (ANT 1)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	40.989	≥30	Pass
6	2437	57.110	≥30	Pass
11	2462	50.279	≥30	Pass

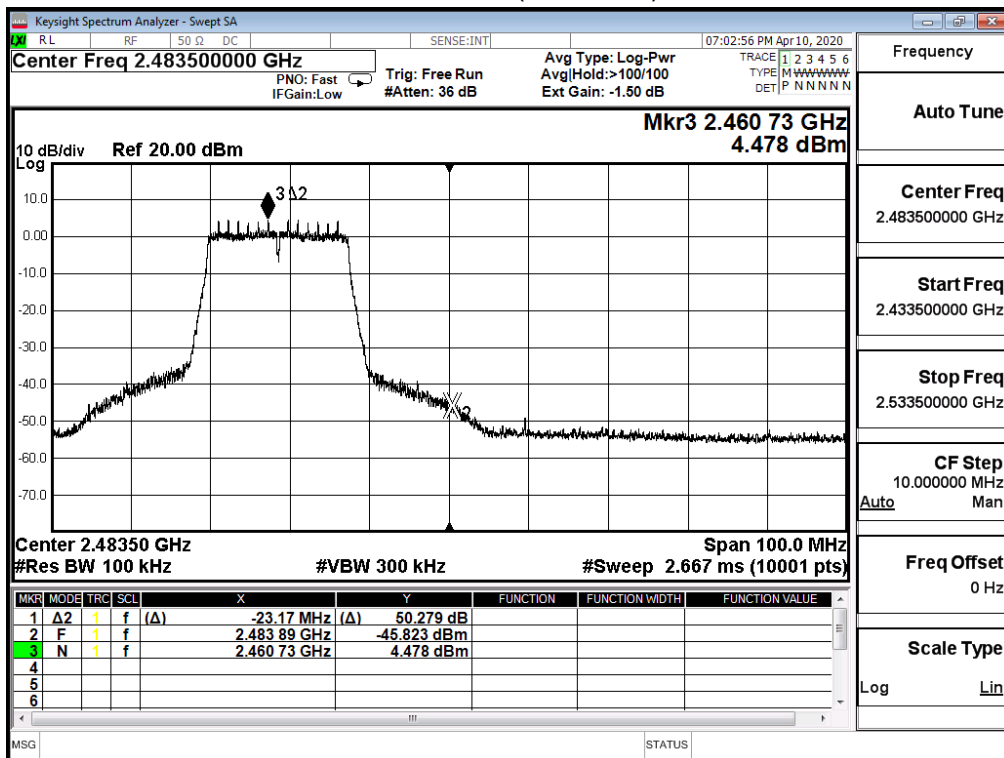
Channel 1 (2412MHz)



Channel 6 (2437MHz)



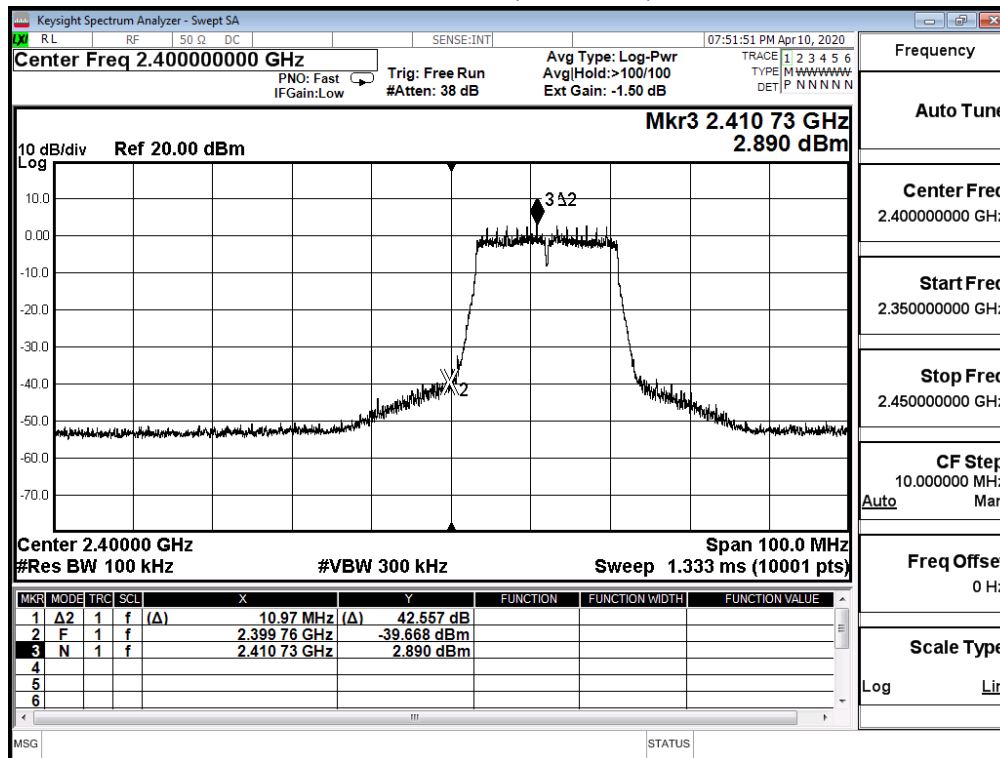
Channel 11 (2462MHz)



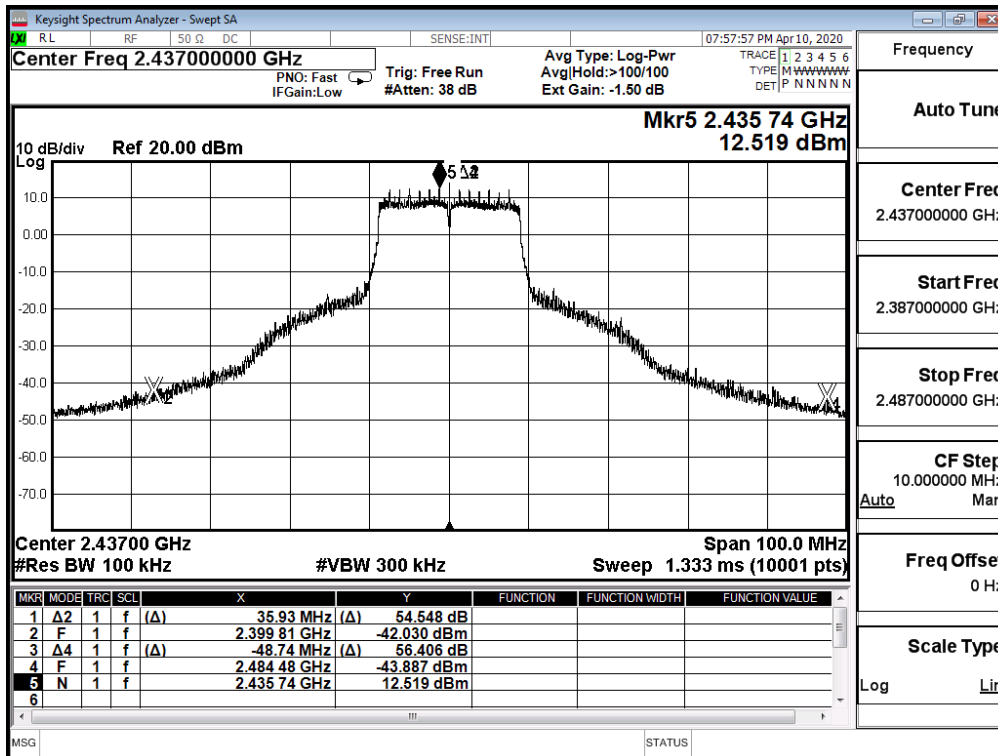
Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit mode_CDD_ADP 1		
Date of Test	2020/04/10	Test Site	SR12-H
Test Temperature	22.5°C	Test Humidity	57.0%

IEEE 802.11n 20M (ANT 2)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	42.557	≥30	Pass
6	2437	54.548	≥30	Pass
11	2462	49.658	≥30	Pass

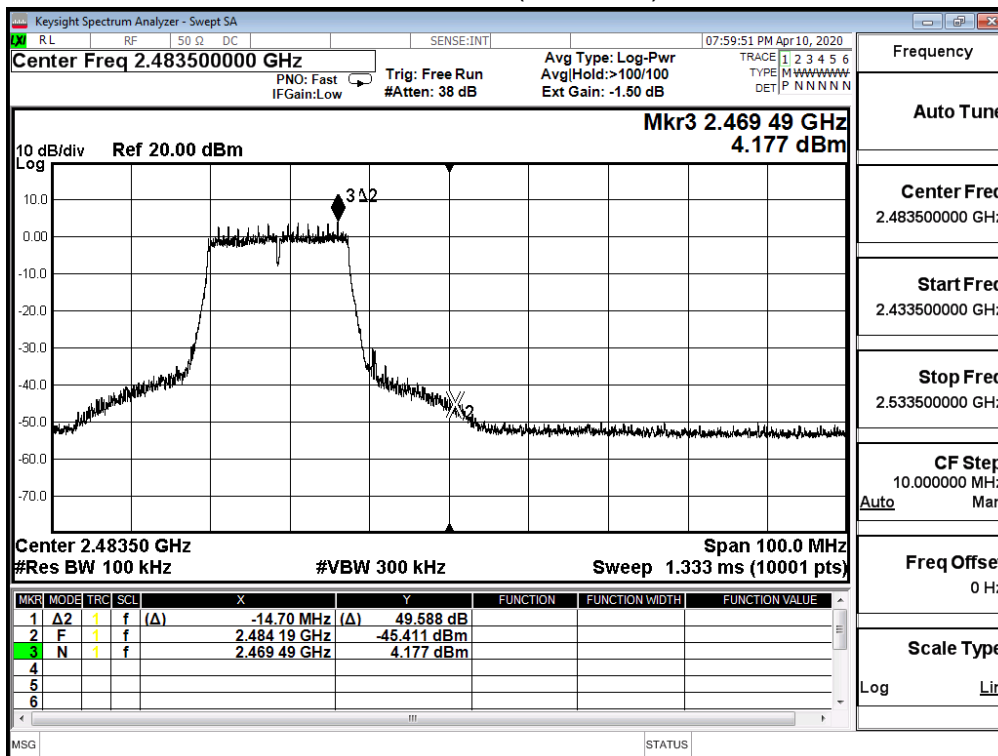
Channel 1 (2412MHz)



Channel 6 (2437MHz)



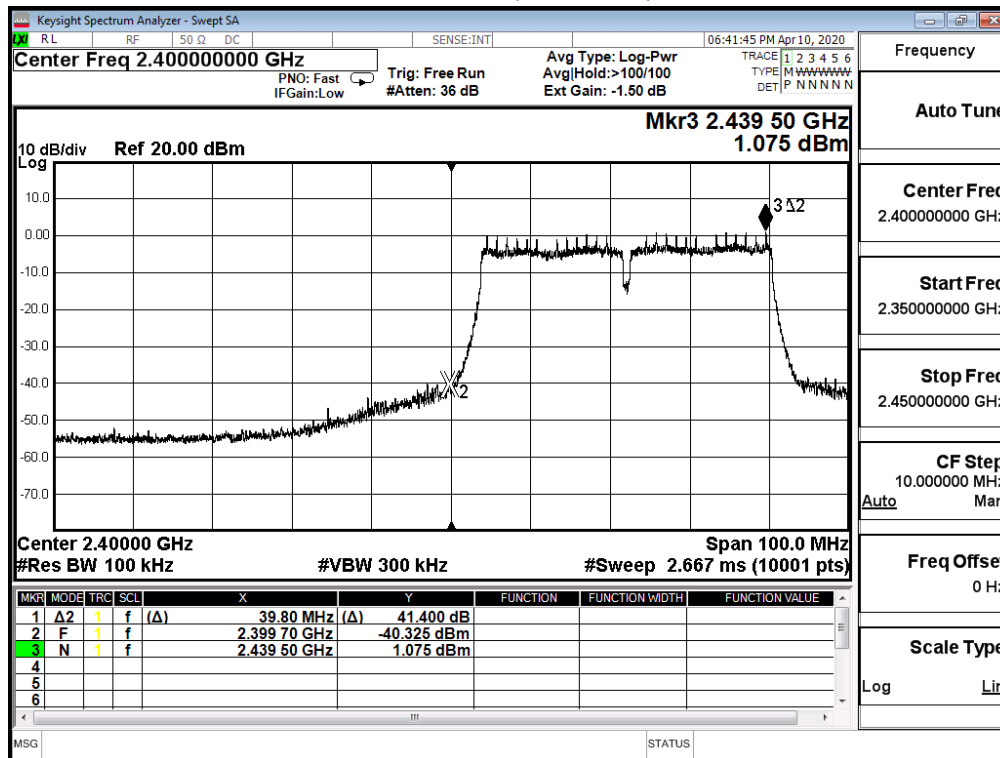
Channel 11 (2462MHz)



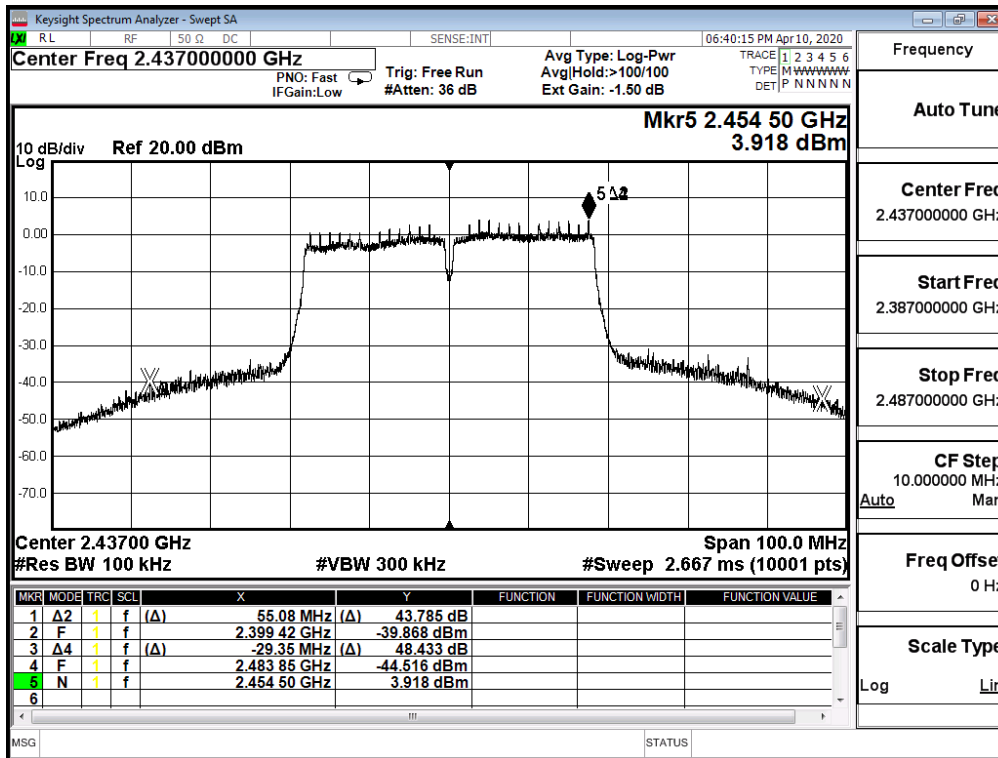
Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit mode_CDD_AD P 1		
Date of Test	2020/04/10	Test Site	SR12-H
Test Temperature	22.5°C	Test Humidity	57.0%

IEEE 802.11n 40M (ANT 0)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	41.400	≥30	Pass
6	2437	43.785	≥30	Pass
9	2452	44.148	≥30	Pass

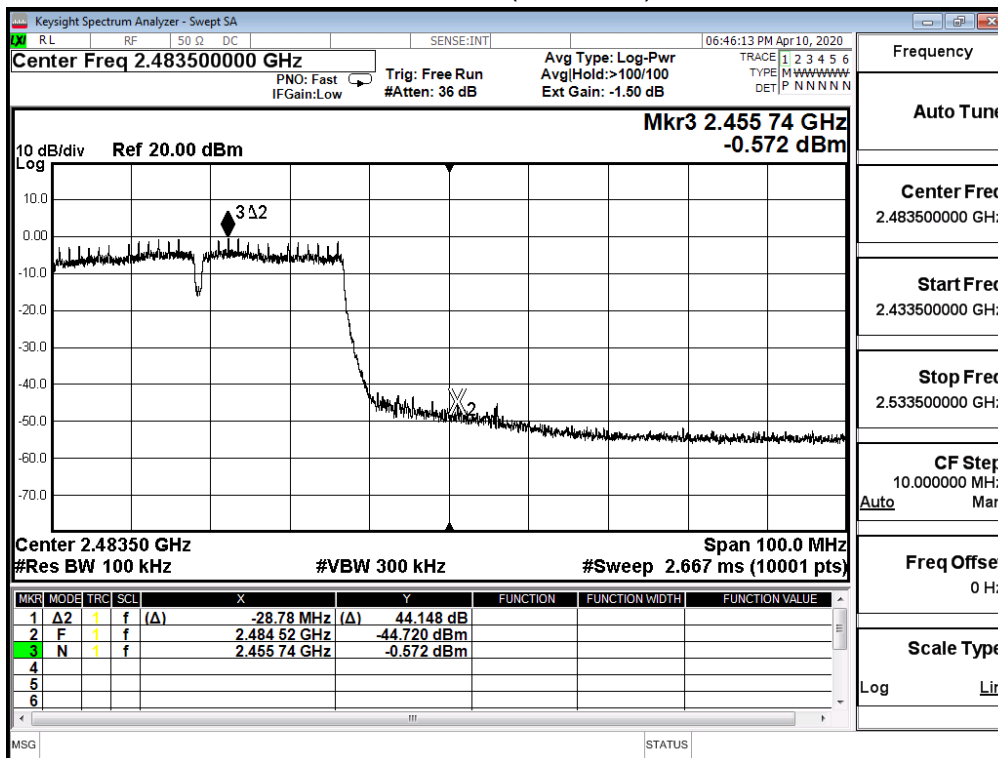
Channel 3 (2422MHz)



Channel 6 (2437MHz)



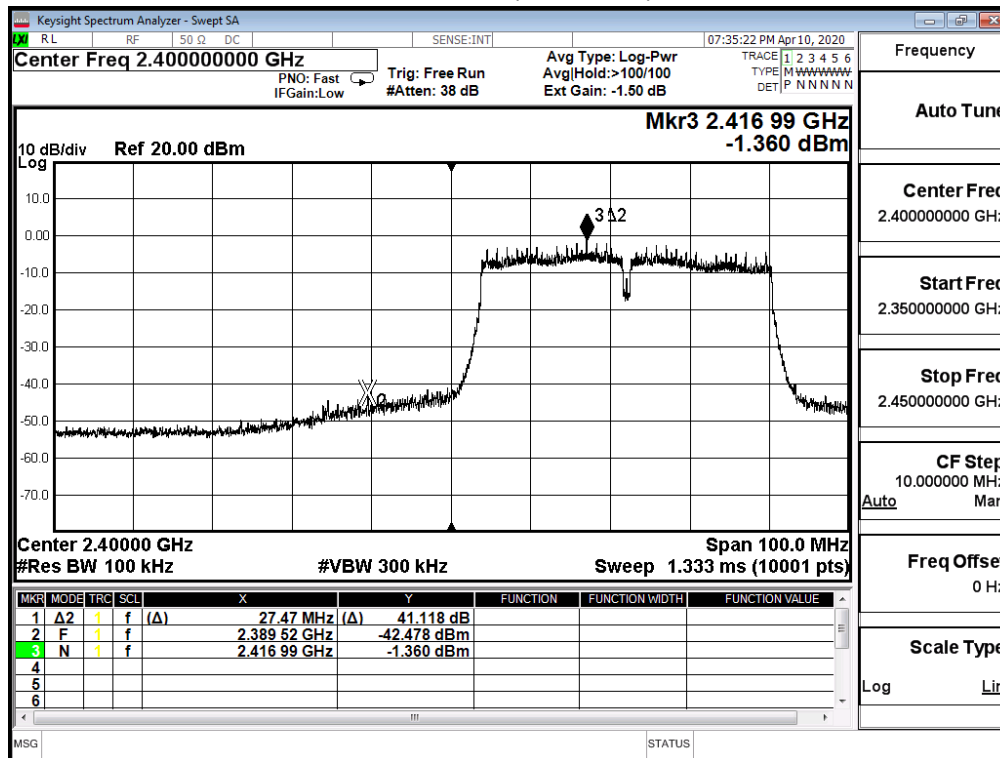
Channel 9 (2452MHz)



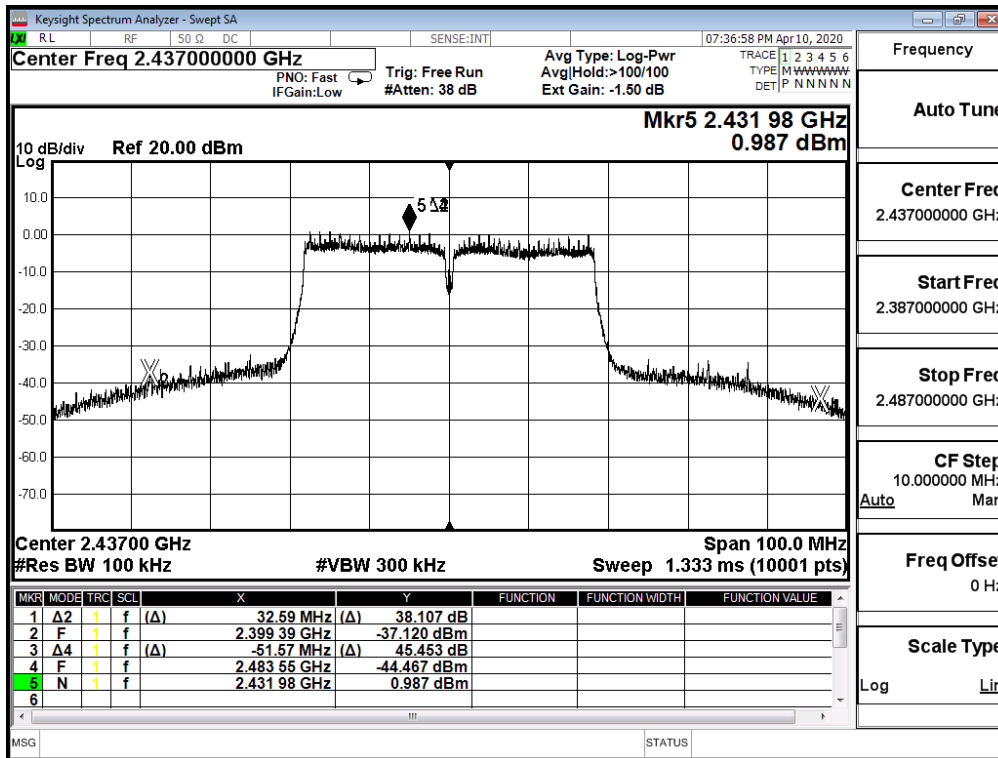
Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit mode_CDD_ADP 1		
Date of Test	2020/04/10	Test Site	SR12-H
Test Temperature	22.5°C	Test Humidity	57.0%

IEEE 802.11n 40M (ANT 1)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	41.342	≥30	Pass
6	2437	38.107	≥30	Pass
9	2452	39.618	≥30	Pass

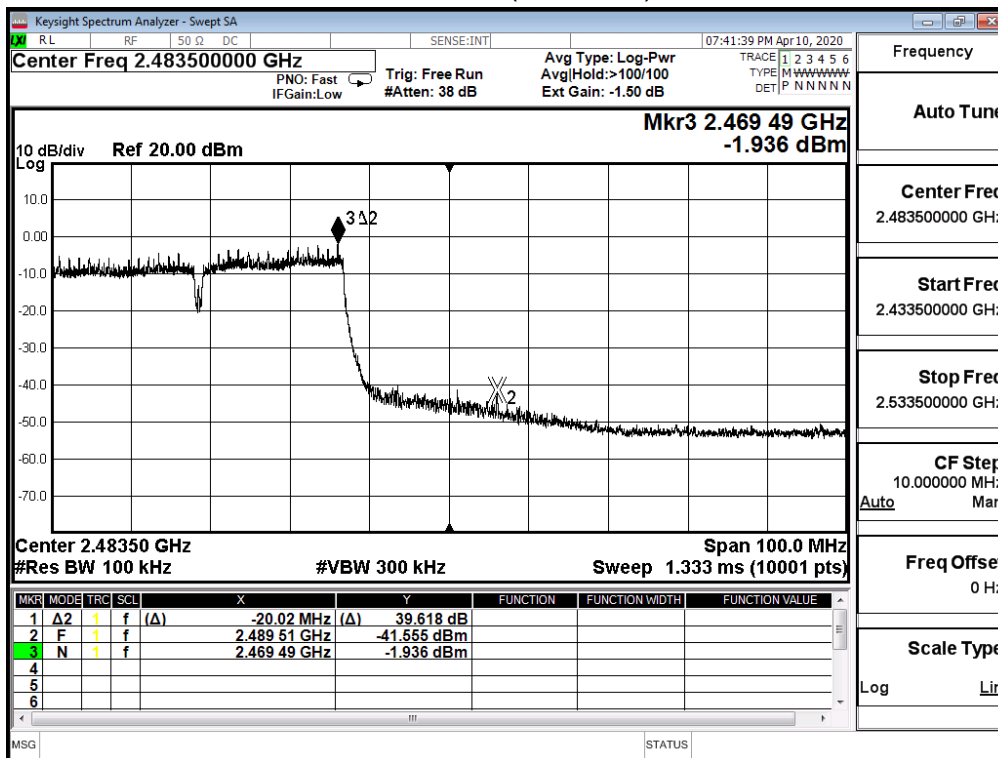
Channel 3 (2422MHz)



Channel 6 (2437MHz)



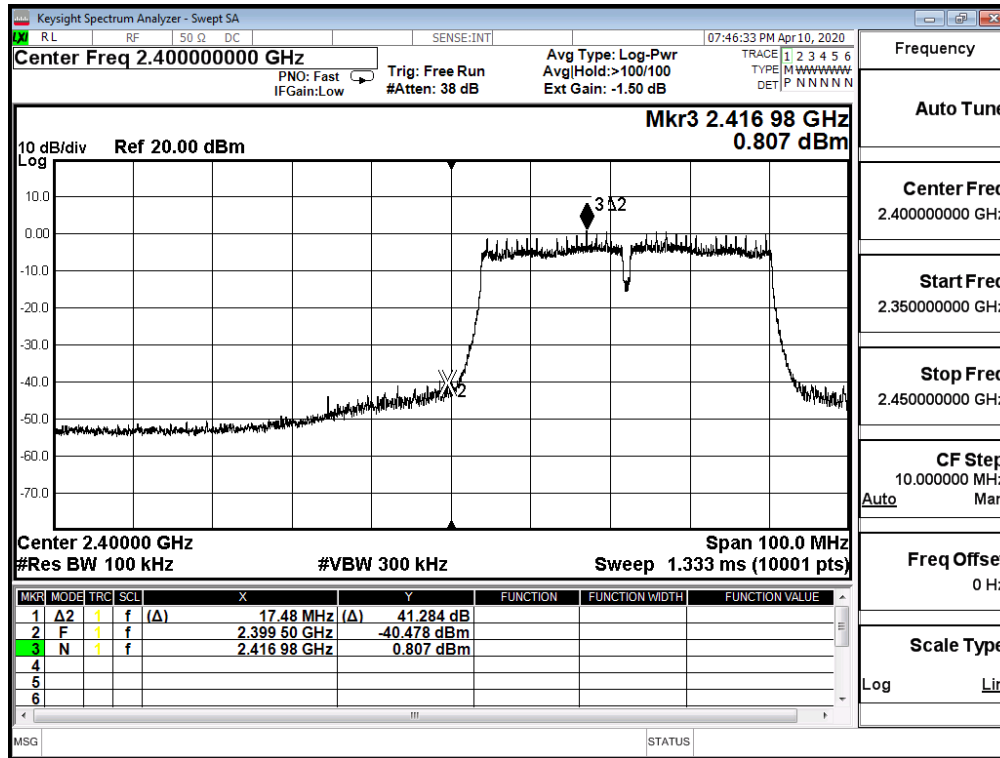
Channel 9 (2452MHz)



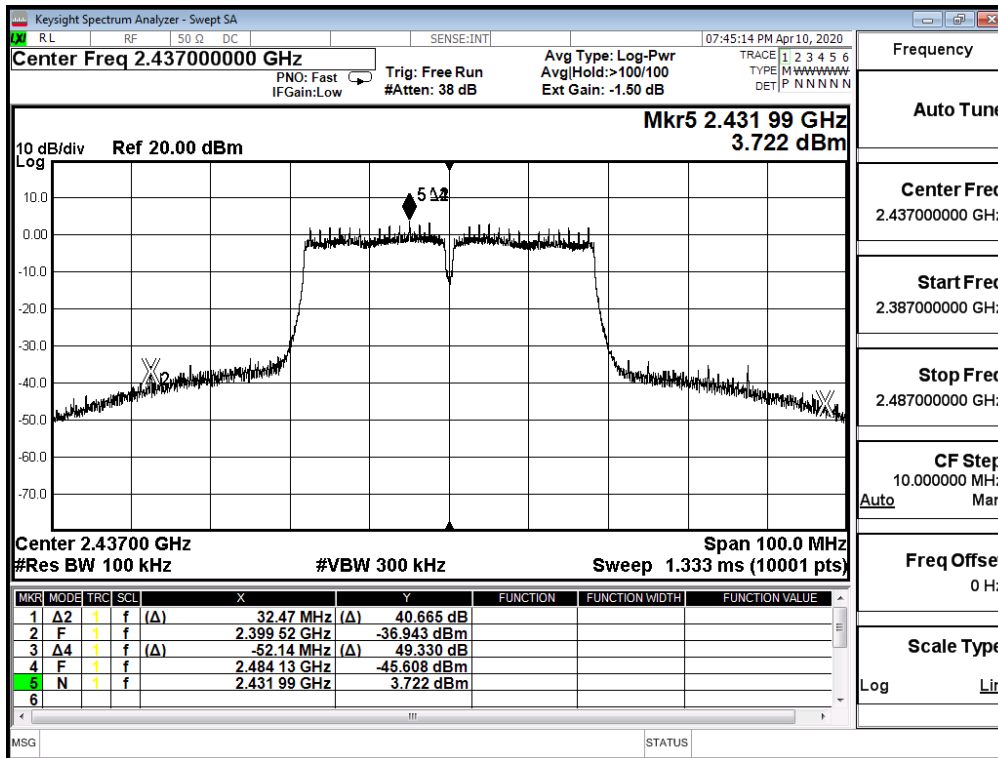
Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit mode_CDD_AD P 1		
Date of Test	2020/04/10	Test Site	SR12-H
Test Temperature	22.5°C	Test Humidity	57.0%

IEEE 802.11n 40M (ANT 2)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	41.284	≥30	Pass
6	2437	40.665	≥30	Pass
9	2452	44.201	≥30	Pass

Channel 3 (2422MHz)



Channel 6 (2437MHz)



Channel 9 (2452MHz)

