FCC Test Report

Product Name	:	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router
Trade Name	:	ASUS
Model No.	:	GT-AX6000, GT-AC5400
FCC ID.	:	MSQ-RTAX2E00

Applicant	:	ASUSTeK COMPUTER INC.
Address	:	4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan

Date of Receipt	:	Aug. 09, 2018
Issued Date	:	Jan. 03, 2018
Report No.	:	18B0158R-RFUSP26V00
Report Version	:	V1.0

Testing Laboratory
3024

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Test Report Certification

Issued Date : Jan. 03, 2018
Report No.: 18B0158R-RFUSP26V00

Product Name	:	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router
Applicant	:	ASUSTeK COMPUTER INC.
Address	:	4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan
Manufacturer	:	ASUSTeK COMPUTER INC.
Model No.	:	GT-AX6000, GT-AC5400
FCC ID.	:	MSQ-RTAX2E00
EUT Test Voltage	:	AC 100-240V, 50-60Hz
Testing Voltage	:	AC 120V/60Hz
Trade Name	:	ASUS
Applicable Standard	:	FCC CFR Title 47 Part 15 Subpart C Section 15.247: 2017 ANSI C63.10: 2013 KDB 558074 D01 V04 / KDB 662911 D01 V02r01
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 :

(Rueyyan Lin / Senior Engineer)

Approved By :

(Roy Wang / Director)

Revision History

Report No.	Version	Description	Issued Date
1880136R-RFUSP26V00	V1.0	Initial issue of report	Sep. 06, 2018
18B0158R-RFUSP26V00	V1.0	This is variant report for below changes: 1. The GT-AX6000 model have added fans. 2. The GT-AX6000, GT-AC5400 models have added second source of transformer. 3. Add one adapter that model name is AD2087320. 4. Add 5G 802.11ax TX Beamforming mode. 5. Add 2.4G NSS 2 TX Beamforming mode by customer requirements. 6. Change the location of antenna number 2, 3, 6 and 7, verify that radiation emission and bandedge but not affect the test results. 7. The antenna brand of "Whayu" that antenna list number 2, 3, 6, 7 and 8 has add second source. 8. The antenna brand of "Walsin" that antenna list number 2, 3, 6 and 7 has add second source. 9. The GT-AX6000 model have changed heatsink type on top side. 10. Add bandwidth of 160MHz function. For above changes, we verify conducted emission, radiated emission, bandedge, output power tested and EUT Photo.	Jan. 03, 2018

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1. General Information

1.1. EUT Description

Product Name	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router	
Trade Name	ASUS	
Model No.	GT-AX6000, GT-AC5400	
Frequency Range/ Channel Number	IEEE 802.11b/g IEEE 802.11n/ac/ax (20MHz)	2412~2462MHz / 11 Channels
	IEEE 802.11n/ac/ax (40MHz)	2422~2452MHz / 7 Channels
Type of Modulation	IEEE 802.11b	Direct Sequence Spread Spectrum
	IEEE 802.11g/n/ac/ax	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 31 and bandwidth defined in 802.11n
	IEEE802.11ac	Support a subset of the combination of GI, MCS 0~MCS 11 and bandwidth defined in802.11ac
	IEEE802.11ax	Support a subset of the combination of GI, MCS 0~MCS 11 and bandwidth defined in802.11ax

Accessories Information	
Power Adapter	ASUS, ADP-65DW Y I/P : 100-240V~50-60Hz 1.5A O/P : 19V⎓3.42A Cable Out: Non-Shielded, 2m
Power Adapter	ASUS, ADP-65DW B I/P : 100-240V~50-60Hz 1.5A O/P : 19V⎓3.42A Cable Out: Non-Shielded, 2m
Power Adatper	PI, AD2087320 I/P : 100-240V~ 50/60Hz 1.5A O/P : 19V⎓3.42A Cable Out: Non-Shielded, 2.2m

Antenna Information	
Antenna Type	Dipole Antenna
Effective directiona Antenna 1 Gain	ANT 0: 1.9dBi (2.4G) ANT 1: 1.2dBi (2.4G) ANT 2: 2.2dBi (2.4G) ANT 7: 1.9dBi (2.4G)

Accessories Information	
Power Adapter	ASUS, ADP-65DW Y I/P : 100-240V~50-60Hz 1.5A O/P : 19V⎓3.42A Cable Out: Non-Shielded, 2m
Power Adapter	ASUS, ADP-65DW B I/P : 100-240V~50-60Hz 1.5A O/P : 19V⎓3.42A Cable Out: Non-Shielded, 2m
Power Adatper	PI, AD2087320 I/P : 100-240V~ 50/60Hz 1.5A O/P : 19V⎓3.42A Cable Out: Non-Shielded, 2.2m
Antenna 1	9 Pcs

Antenna List	Brand Name	Part Number	Gain
Ant 0	Whayu	C660-510433-A	1.9 dBi (2.4G) 1.9 dBi (5G)
Ant 1	Whayu	C660-510434-A	1.2 dBi (2.4G) 2.7 dBi (5G)
Ant 2	Whayu	C660-510435-A C660-510442-A (*)	2.2 dBi (2.4G) 2.5 dBi (5G) 2.0 dBi (2.4G)(*) 2.3 dBi (5G)(*)
Ant 3	Whayu	C660-510436-A C660-510443-A (*)	2.3 dBi (5G) 2.2 dBi (5G)(*)
Ant 4	Whayu	C660-510437-A	2.5 dBi (5G)
Ant 5	Whayu	C660-510438-A	1.6 dBi (5G)
Ant 6	Whayu	C660-510439-A C660-510444-A (*)	1.8 dBi (5G) 1.6 dBi (5G)(*)
Ant 7	Whayu	C660-510440-A C660-510445-A (*)	1.9 dBi (2.4G) 1.7 dBi (2.4G)(*)
Ant 8	Whayu	C660-510441-A C660-510455-A (*)	3.3 dBi (5G) 2.9 dBi (5G)(*)

Note: The mark of (*) means second source for this CIIPC product, the second source antenna gain is lower than original source.

Antenna 2	9 Pcs

Antenna List	Brand Name	Part Number	Gain
Ant 0	Walsin	RFDPA163312IMLB701	1.75 dBi (2.4G) 1.70 dBi (5G)
Ant 1	Walsin	RFDPA163306IMLB701	1.01 dBi (2.4G) 2.70 dBi (5G)
Ant 2	Walsin	RFDPA163304IMLB701 RFDPA163311IMLB701(*)	2.12 dBi (2.4G) 2.03 dBi (5G)
Ant 3	Walsin	RFDPA163305IM5B701 RFDPA163309IM5B701(*)	2.25 dBi (5G)
Ant 4	Walsin	RFDPA163308IM5B701	2.34 dBi (5G)
Ant 5	Walsin	RFDPA163314IM5B701	1.55 dBi (5G)
Ant 6	Walsin	RFDPA163319IM5B701 RFDPA163326IM5B701(*)	1.80 dBi (5G)
Ant 7	Walsin	RFDPA163311IMAB701 RFDPA163320IMAB701(*)	1.89 dBi (2.4G)
Ant 8	Walsin	RFMTA181703IM5B701	3.22 dBi (5G)

Note: The mark of (*) means second source for this CIIPC product, the second source antenna gain is same with original source.

ANT-TX / RX & Bandwidth

ANT-TX / RX	TX			RX		
Mode/ Channel Bandwidth	20MHz	40MHz	80MHz	20MHz	40MHz	80MHz
IEEE802.11b	✓			✓		
IEEE802.11g	✓			✓		
IEEE802.11n	✓	✓		✓	✓	
IEEE802.11ac	✓	✓		✓	✓	
IEEE802.11ax	✓	✓		✓	✓	

IEEE 802.11b/g/n/ac/ax (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/ac/ax (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/ac/ax and 5GHz a/n/ac/ax 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. These model names have following difference:

Equipment Name	ROG Rapture GT-AX6000 Dual-band Gaming Router	ROG Rapture GT-AC5400 Dual-band Gaming Router
Model Name	GT-AX6000	GT-AC5400
Difference	The different model names are for market purpose.	
	1. 10G fiber (SFP+port) 2. 10G copper (RJ45 port) 3. With fan.	1. 10G fiber (SFP+port) 2. Without fan.

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: TX_BF_NSS2_ADP-65DW Y Mode 2: TX_AC5400_Tranformer 1_AD2087320 Mode 3: TX_AC5400_Tranformer 2_ADP-65DW Y Mode 4: TX_AC5400_Tranformer 2_ADP-65DW B Mode 5: TX_AC5400_Tranformer 2_D2087320 Mode 6: TX_AX6000_add fan _Transformer 1_ADP-65DW Y Mode 7: TX_AX6000_add fan _Transformer 1_ADP-65DW B Mode 8: TX_AX6000_add fan _Transformer 1_AD2087320 Mode 9: TX_AX6000_add fan _Transformer 2_ADP-65DW Y Mode 10: TX_AX6000_add fan _Transformer 2_ADP-65DW B Mode 11: TX_AX6000_add fan _Transformer 2_AD2087320

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

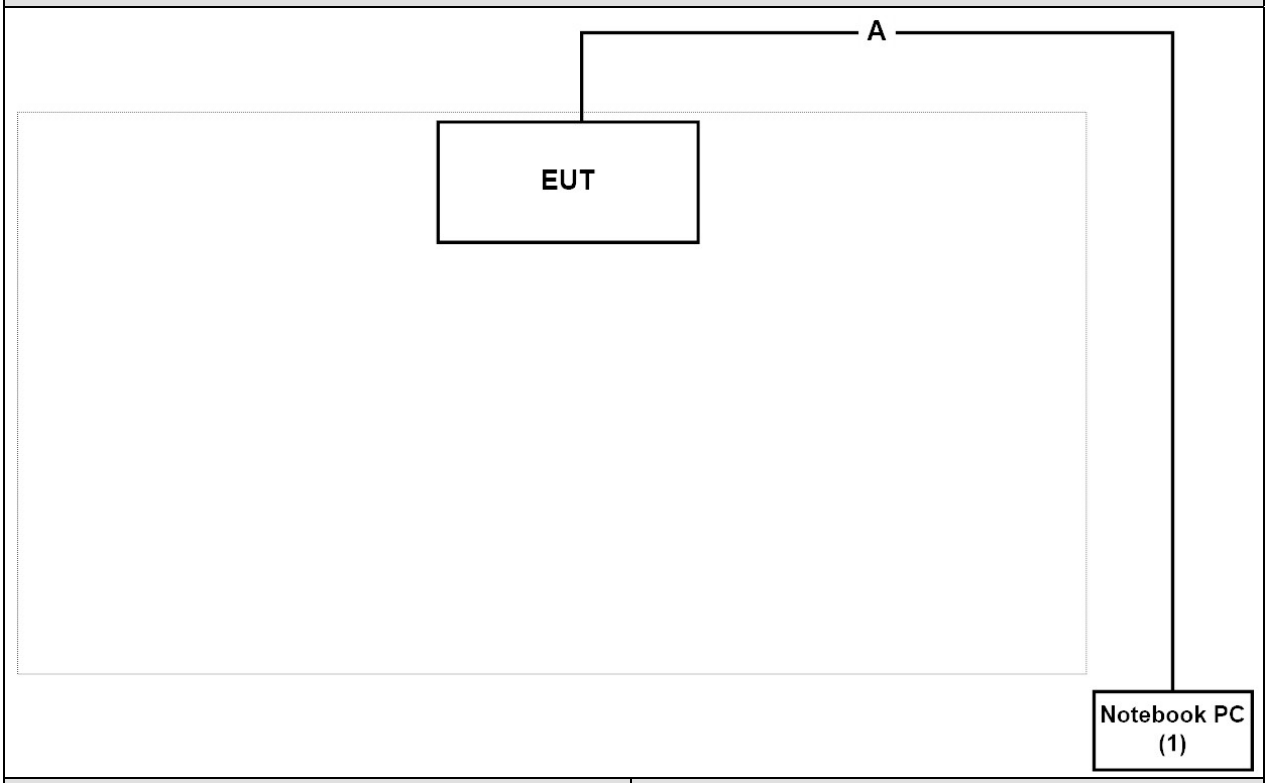
1.3. Tested System Details

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	Precision M65	28G9NIS	DoC	Non-Shielded, 1.8m

1.4. Configuration of tested System

Connection Diagram



Signal Cable Type		Signal cable Description
A	LAN Cable	Non-Shielded, 2m

1.5. EUT Exercise Software

1	Setup the EUT as shown in Section 1.4.
2	Execute the Control program “QSPR” on the laptop.
3	Configure the test mode, the test channel, and the data rate.
4	Make the EUT to start the continuous transmitting.
5	Verify that the EUT works properly.

1.6. Test Facility

Ambient conditions in the laboratory:

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

Note: Test Site information refers to Laboratory Information.

Laboratory Information

USA	:	**FCC Registration Number: TW3024**
Canada		**IC Registration Number: 22397-1 / 22397-2 / 22397-3**

The related certificate for our laboratories about the test site and management system can be downloaded from DEKRA Testing and Certification Co., Ltd. Web Site:
http://www.dekra.com.tw/english/about/certificates.aspx?bval=5
The address and introduction of DEKRA Testing and Certification Co., Ltd. laboratories can be founded in our Web site: http://www.dekra.com.tw/index_en.aspx

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

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1.7. List of Test Equipment

Conducted Emission / SR2-H

Artificial Mains Network	R&S	ENV4200	848411/010	2018/01/22	2019/01/21
Test Receiver	R&S	ESCS 30	836858/022	2018/03/30	2019/03/29
LISN	R&S	ENV216	100092	2018/07/23	2019/07/22

Maximum peak conducted output power / SR2-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal & Spectrum Analyzer	R&S	FSV40	101049	2018/01/10	2019/01/09
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2018/03/05	2019/03/04

Radiated Emission / CB2-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal Analyzer	R&S	FSVA40	101455	2017/11/21	2018/11/20
Signal & Spectrum Analyzer	R&S	FSV40	101049	2018/01/10	2019/01/09
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2018/03/05	2019/03/04
Bilog Antenna	Teseq	CBL6112D	23191	2018/06/26	2019/06/25
Horn Antenna	Schwarzbeck	BBHA 9120D	639	2018/06/01	2019/05/31
Horn Antenna	Schwarzbeck	BBHA 9170	202	2018/01/31	2019/01/30
Pre-Amplifier	Dekra	AP-025C	201801236	2018/02/26	2019/02/25
Pre-Amplifier	EMCI	EMC11830I	980366	2018/01/08	2019/01/07
Pre-Amplifier	Dekra	AP-400C	201801231	2017/12/13	2018/12/12
Band Reject Filter	Micro-Tronics	BRM50702	G192	2018/04/11	2019/04/10
Band Reject Filter	Micro-Tronics	BRM50716	G089	2018/04/11	2019/04/10
Cable	Suhner	SF104_SF104_SF104_SF104	A211	2018/08/28	2019/08/27
Cable	Suhner	SF104_SF104_SF104_SF102	A219	2018/08/15	2019/08/14
Mangnetic Loop Antenna	Teseq	HLA6121	44287	2017/10/13	2018/10/12

Radiated Emission Band Edge / CB2-H

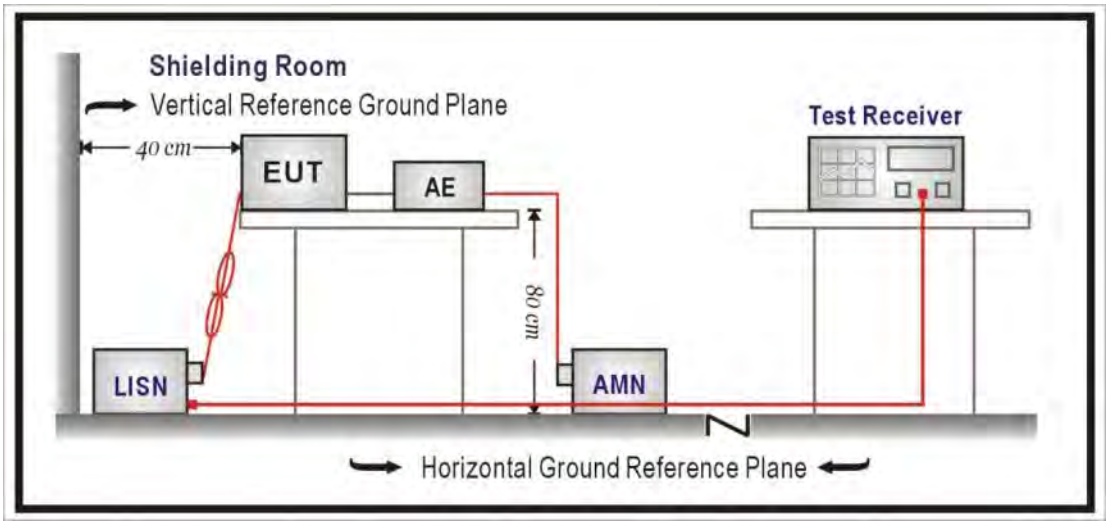
Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal Analyzer	R&S	FSVA40	101455	2017/11/21	2018/11/20
Signal & Spectrum Analyzer	R&S	FSV40	101049	2018/01/10	2019/01/09
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2018/03/05	2019/03/04
Bilog Antenna	Teseq	CBL6112D	23191	2018/06/26	2019/06/25
Horn Antenna	Schwarzbeck	BBHA 9120D	639	2018/06/01	2019/05/31
Horn Antenna	Schwarzbeck	BBHA 9170	202	2018/01/31	2019/01/30
Pre-Amplifier	Dekra	AP-025C	201801236	2018/02/26	2019/02/25
Pre-Amplifier	EMCI	EMC11830I	980366	2018/01/08	2019/01/07
Pre-Amplifier	Dekra	AP-400C	201801231	2017/12/13	2018/12/12
Cable	Suhner	SF104_SF104_SF104_SF104	A211	2018/08/28	2019/08/27
Cable	Suhner	SF104_SF104_SF104_SF102	A219	2018/08/15	2019/08/14

1.8. 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	± 1.27dB
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

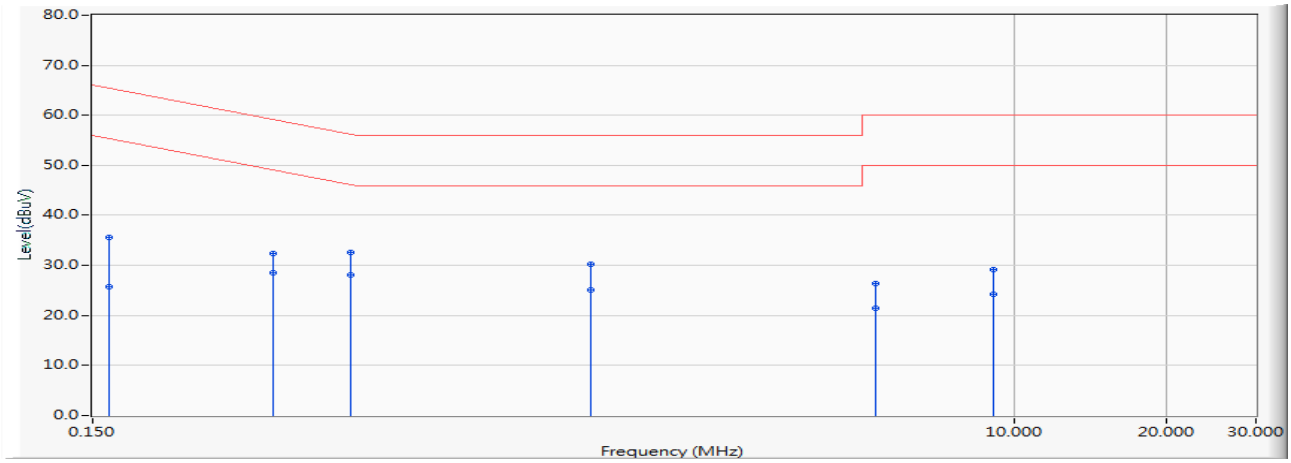
The EUT was setup according to ANSI C63.4: 2013 and tested according to DTS test procedure of KDB558074 for compliance to FCC 47CFR 15.247 requirements.
The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs.)
Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

2.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.207: 2017

2.5. Test Result

Site : SR2-H	Time : 2018/10/02
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2-B127_LISN(16A)-8 - Line1	Power : AC 120V/60Hz
EUT : ROG Rapture GT-AX6000 Dual-band Gaming Router	Note : Mode 2: TX_AC5400_Tranformer 1_AD2087320 802.11ax(40M)_2437MHz

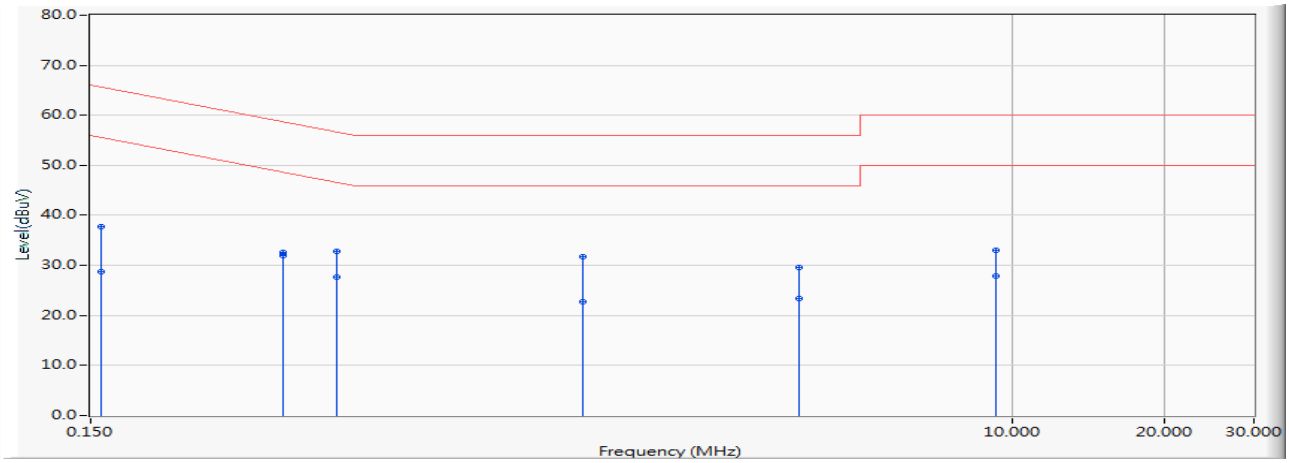


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.162	9.680	25.840	35.520	-29.855	65.375	QUASIPEAK
2		0.162	9.680	16.050	25.730	-29.645	55.375	AVERAGE
3		0.341	9.680	22.630	32.310	-26.859	59.169	QUASIPEAK
4		0.341	9.680	18.810	28.490	-20.679	49.169	AVERAGE
5		0.486	9.681	22.900	32.581	-23.656	56.237	QUASIPEAK
6	*	0.486	9.681	18.360	28.041	-18.196	46.237	AVERAGE
7		1.451	9.795	20.490	30.285	-25.715	56.000	QUASIPEAK
8		1.451	9.795	15.360	25.155	-20.845	46.000	AVERAGE
9		5.322	9.841	16.630	26.470	-33.530	60.000	QUASIPEAK
10		5.322	9.841	11.630	21.470	-28.530	50.000	AVERAGE
11		9.088	10.042	19.220	29.261	-30.739	60.000	QUASIPEAK
12		9.088	10.042	14.220	24.261	-25.739	50.000	AVERAGE

Note:

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

Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2-B127_LISN(16A)-8 - Line2	Power : AC 120V/60Hz
EUT : ROG Rapture GT-AX6000 Dual-band Gaming Router	Note : Mode 2: TX_AC5400_Tranformer 1_AD2087320 802.11ax(40M)_2437MHz



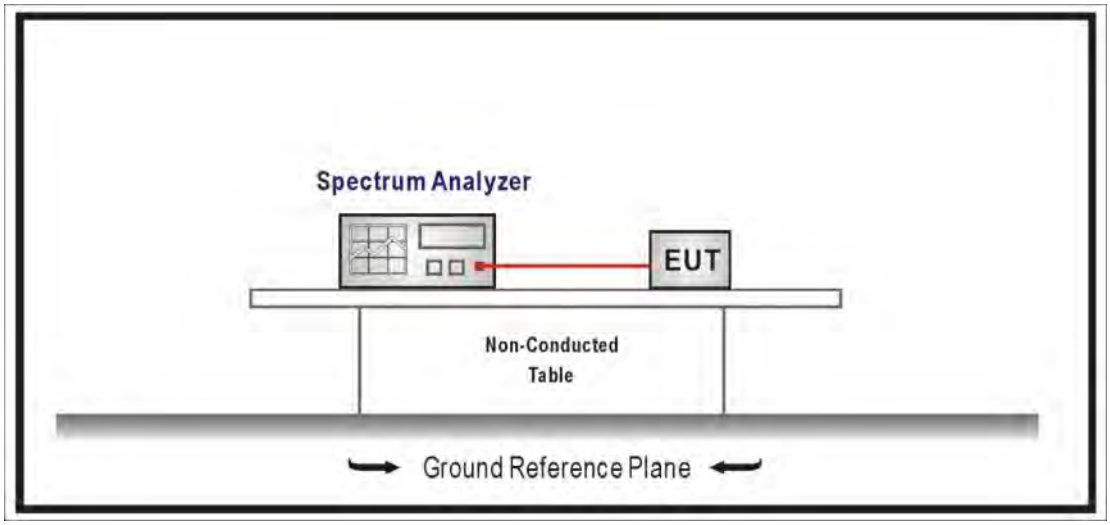
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.158	9.680	28.090	37.770	-27.808	65.578	QUASIPEAK
2		0.158	9.680	19.140	28.820	-26.758	55.578	AVERAGE
3		0.361	9.680	23.010	32.690	-26.017	58.707	QUASIPEAK
4	*	0.361	9.680	22.190	31.870	-16.837	48.707	AVERAGE
5		0.459	9.681	23.150	32.831	-23.887	56.718	QUASIPEAK
6		0.459	9.681	17.930	27.611	-19.107	46.718	AVERAGE
7		1.416	9.794	21.980	31.774	-24.226	56.000	QUASIPEAK
8		1.416	9.794	13.020	22.814	-23.186	46.000	AVERAGE
9		3.783	9.818	19.820	29.638	-26.362	56.000	QUASIPEAK
10		3.783	9.818	13.580	23.398	-22.602	46.000	AVERAGE
11		9.279	10.044	23.090	33.134	-26.866	60.000	QUASIPEAK
12		9.279	10.044	17.930	27.974	-22.026	50.000	AVERAGE

Note:

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

3. Maximum peak conducted output power

3.1. Test Setup



3.2. Test procedures

The EUT was tested according to DTS test procedure section 9.1.2 of KDB558074 D01 v04, Measurement to FCC 47CFR 15.247 requirements.

3.3. Limits

The maximum peak power shall be less 1 Watt.

3.4. Test Specification

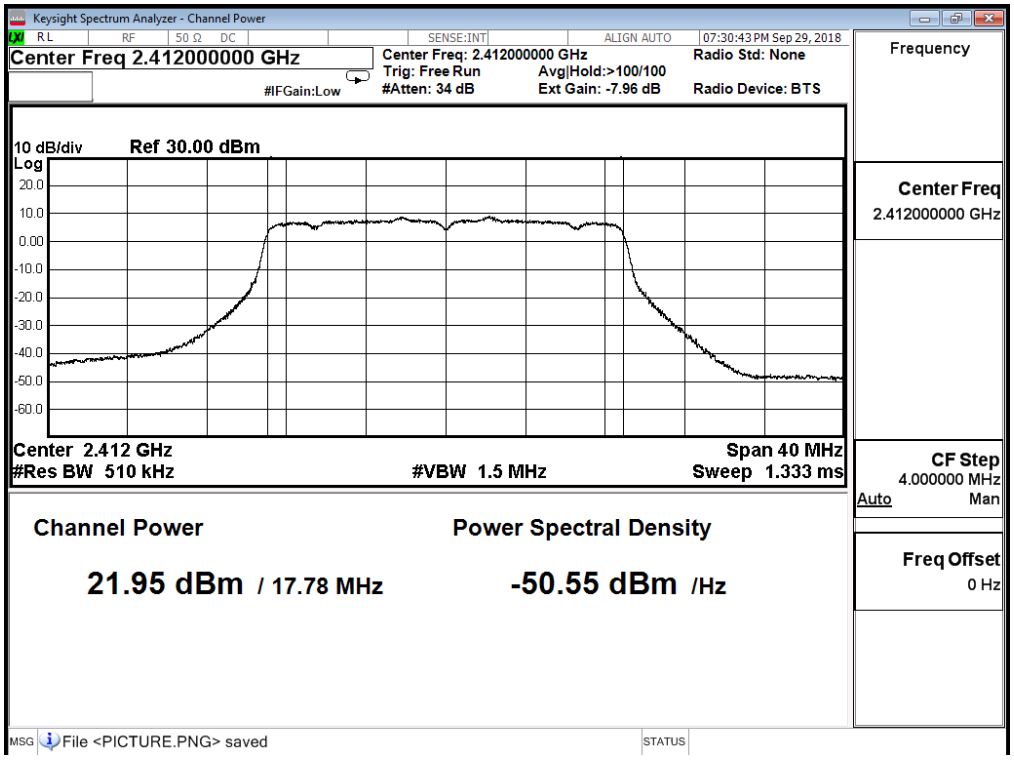
According to FCC Part 15 Subpart C Paragraph 15.247: 2017

3.5. Test Result

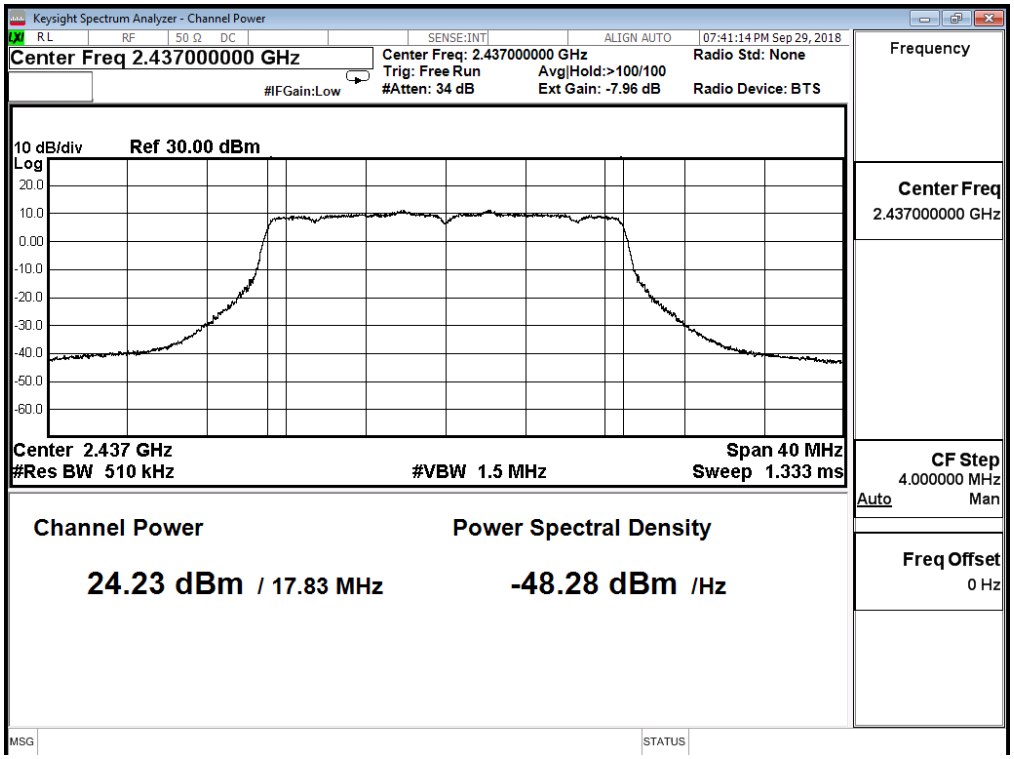
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: TX_BF_NSS2_ADP-65DW Y		
Date of Test	2018/09/29	Test Site	SR10-H

IEEE802.11ac VHT 20M (ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	21.950	≦30
6	2437	24.230	≦30
11	2462	20.080	≦30

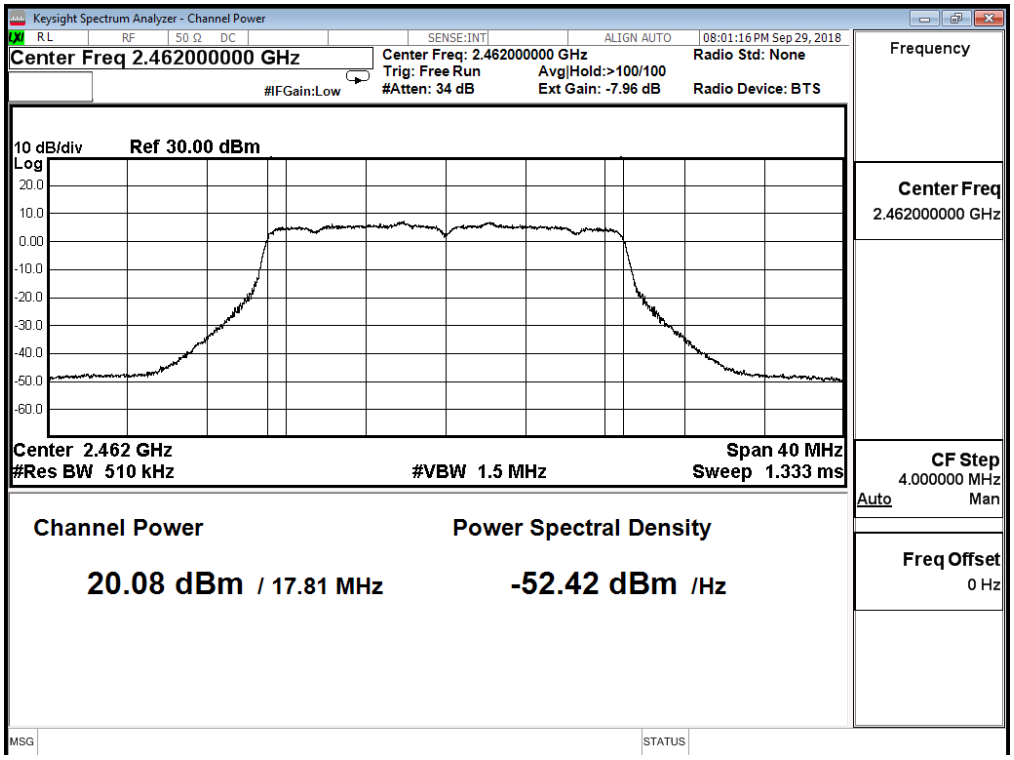
Channel 1 (2412MHz)



Channel 6 (2437MHz)



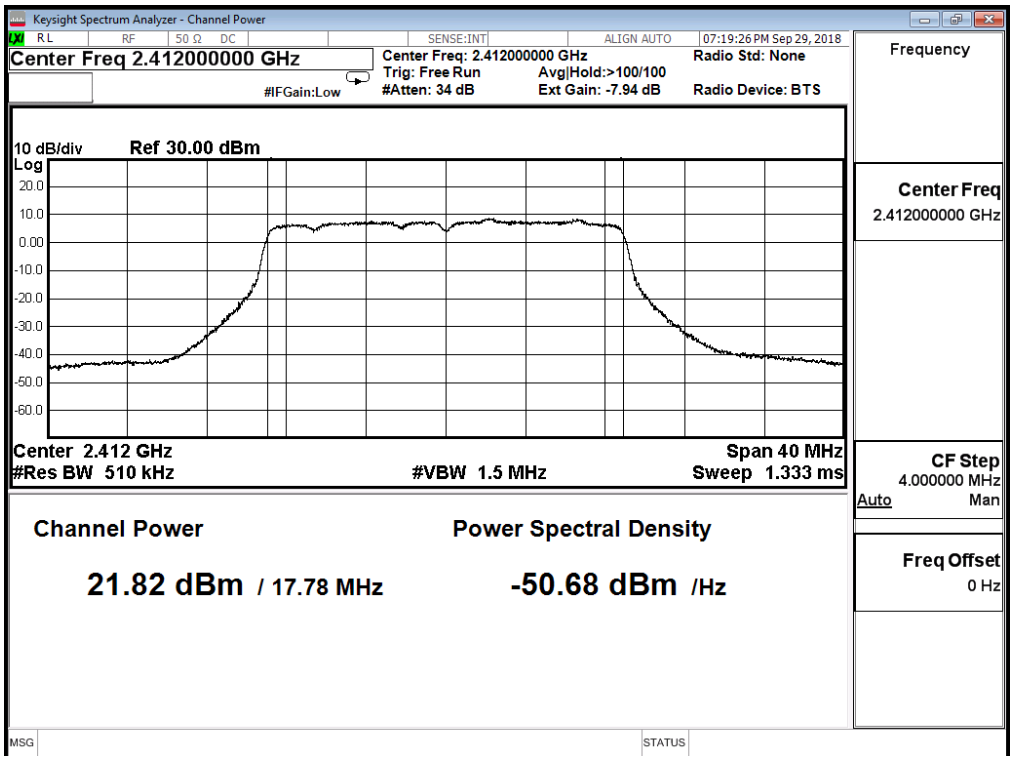
Channel 11 (2462MHz)



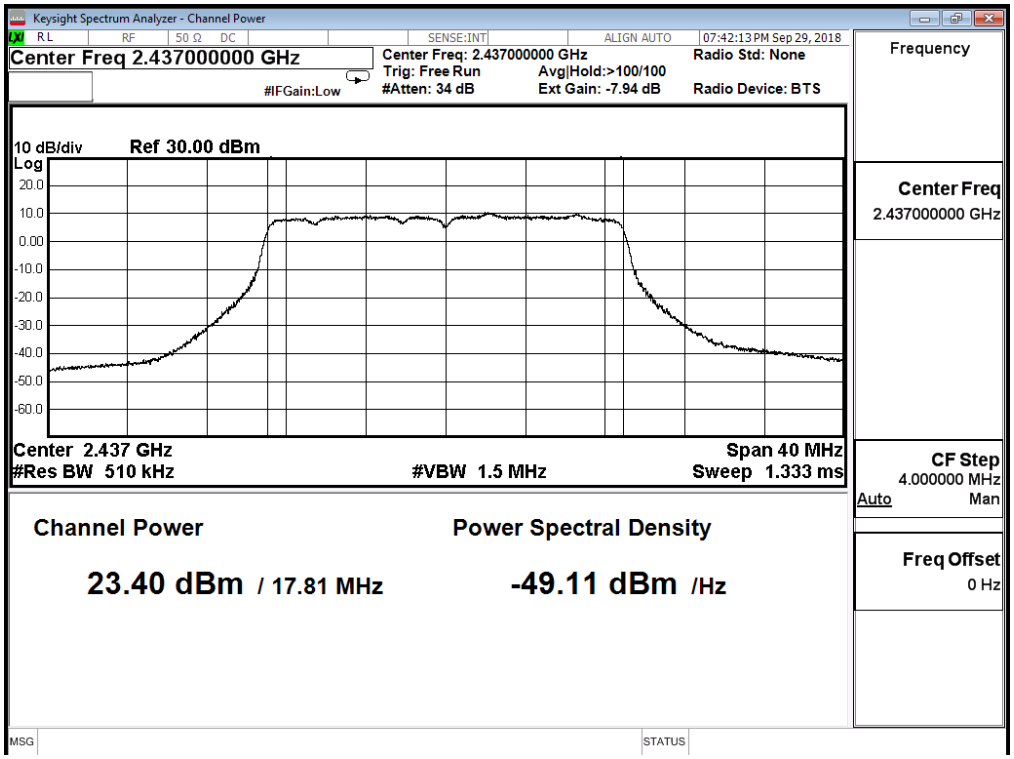
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: TX_BF_NSS2_ADP-65DW Y		
Date of Test	2018/09/29	Test Site	SR10-H

IEEE802.11ac VHT 20M (ANT 1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	21.820	≦30
6	2437	23.400	≦30
11	2462	19.480	≦30

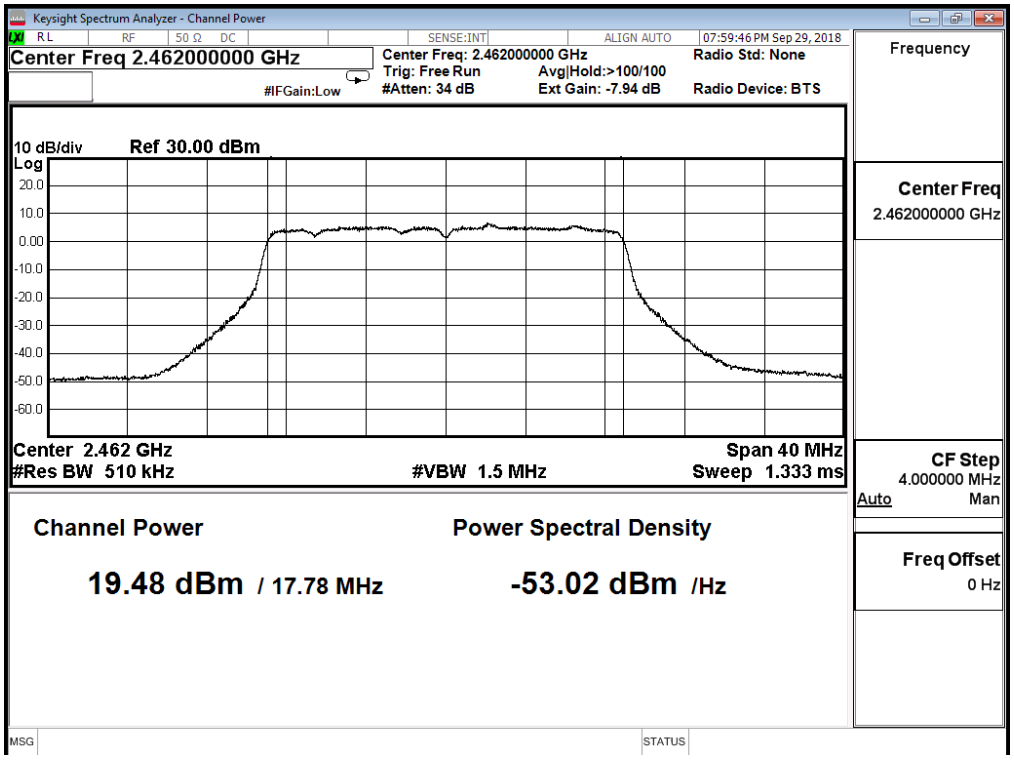
Channel 1 (2412MHz)



Channel 6 (2437MHz)



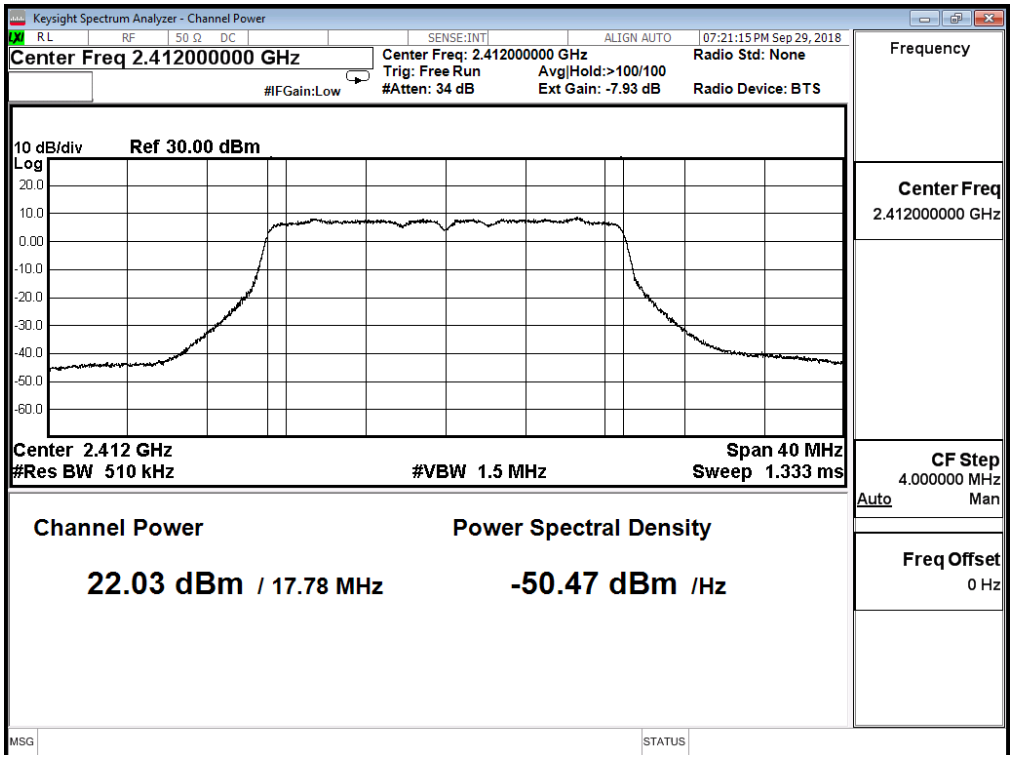
Channel 11 (2462MHz)



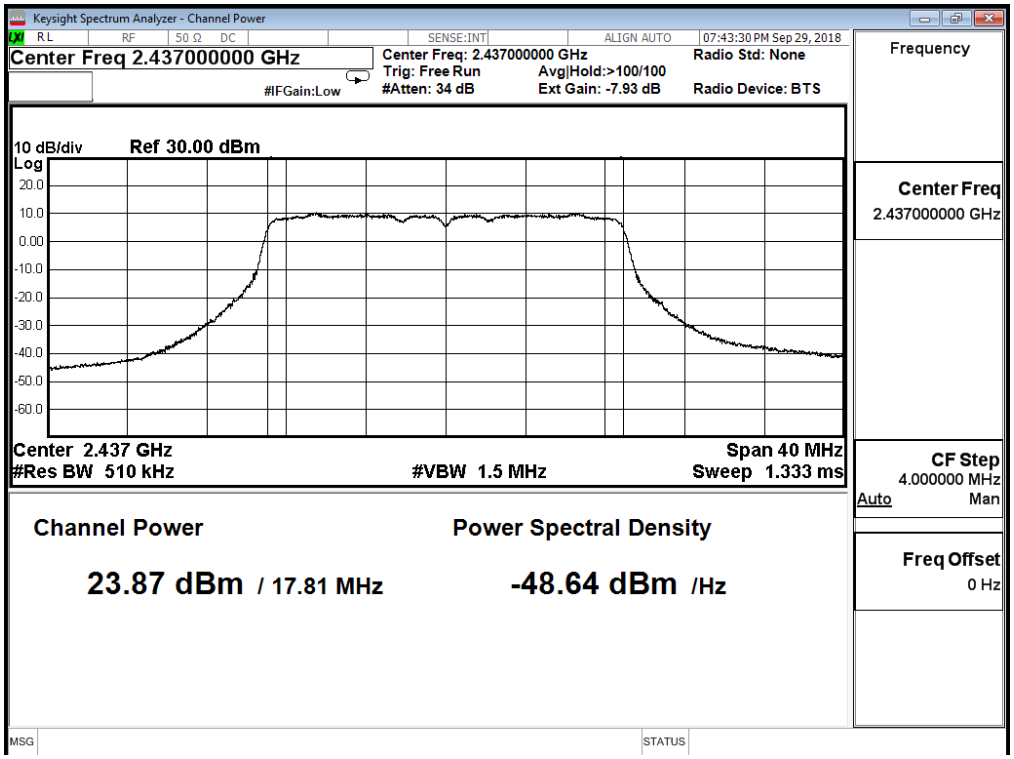
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: TX_BF_NSS2_ADP-65DW Y		
Date of Test	2018/09/29	Test Site	SR10-H

IEEE802.11ac VHT 20M (ANT 2)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	22.030	≦30
6	2437	23.870	≦30
11	2462	19.990	≦30

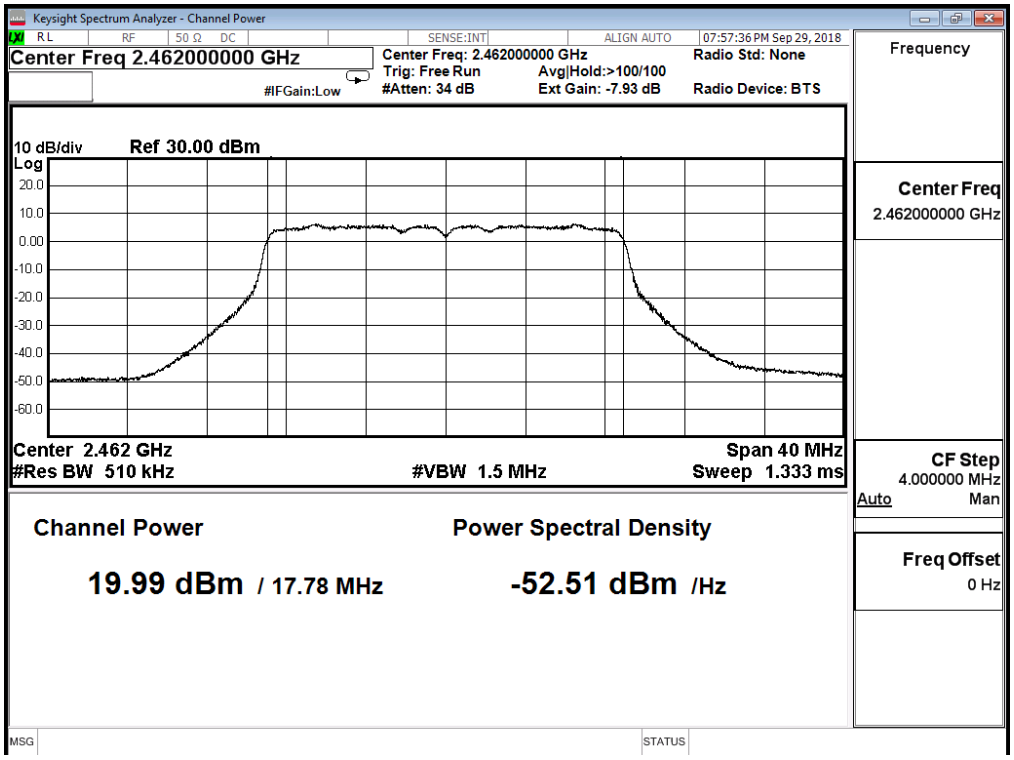
Channel 1 (2412MHz)



Channel 6 (2437MHz)



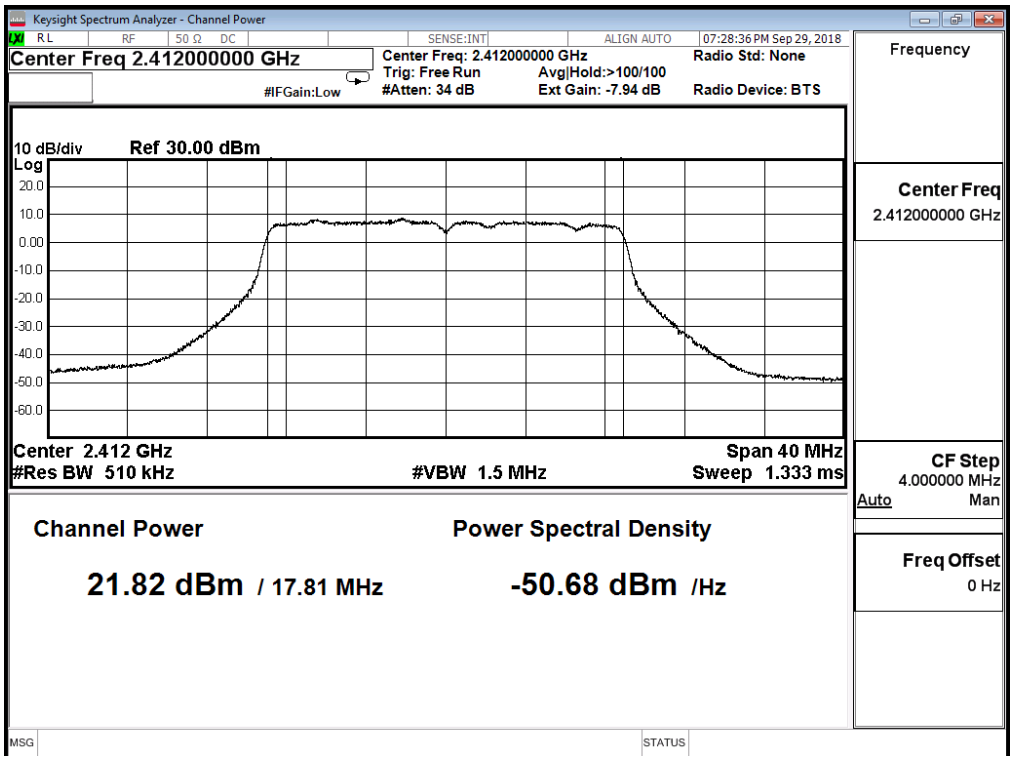
Channel 11 (2462MHz)



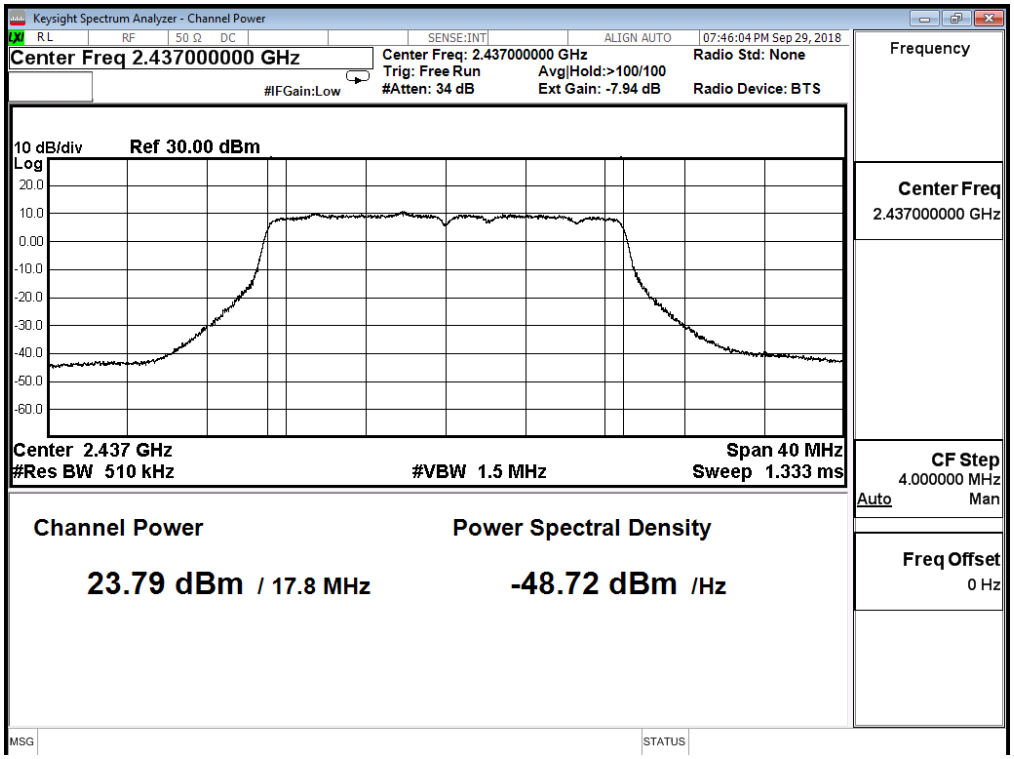
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: TX_BF_NSS2_ADP-65DW Y		
Date of Test	2018/09/29	Test Site	SR10-H

IEEE802.11ac VHT 20M (ANT 3)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	21.820	≦30
6	2437	23.790	≦30
11	2462	19.510	≦30

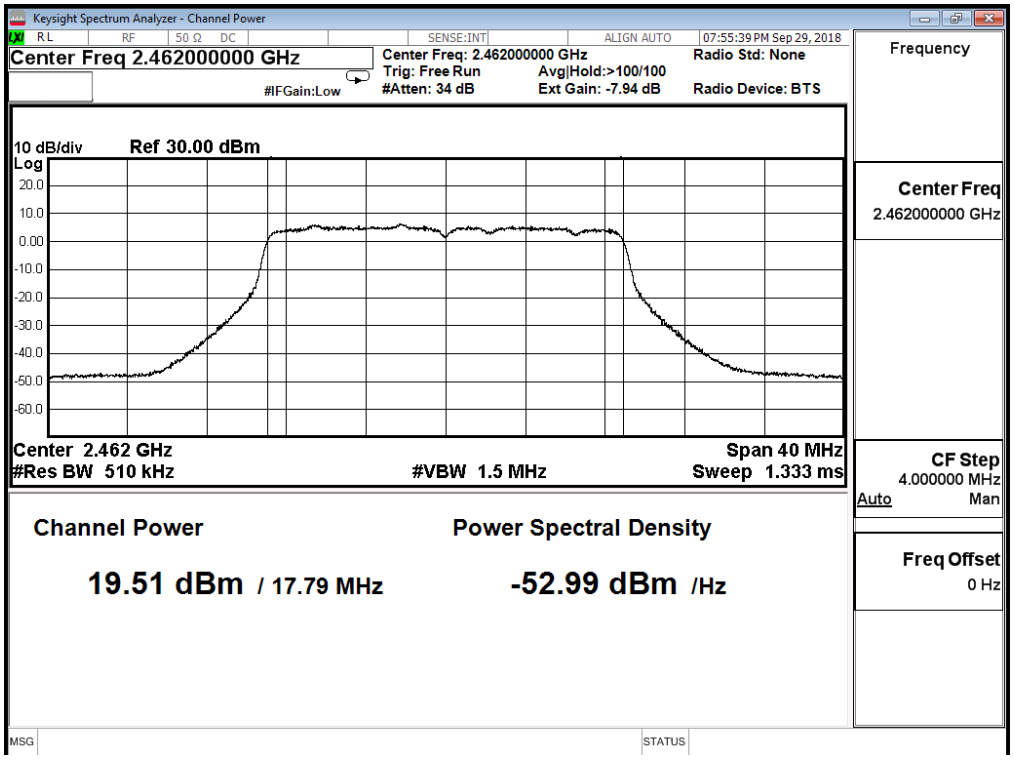
Channel 1 (2412MHz)



Channel 6 (2437MHz)



Channel 11 (2462MHz)



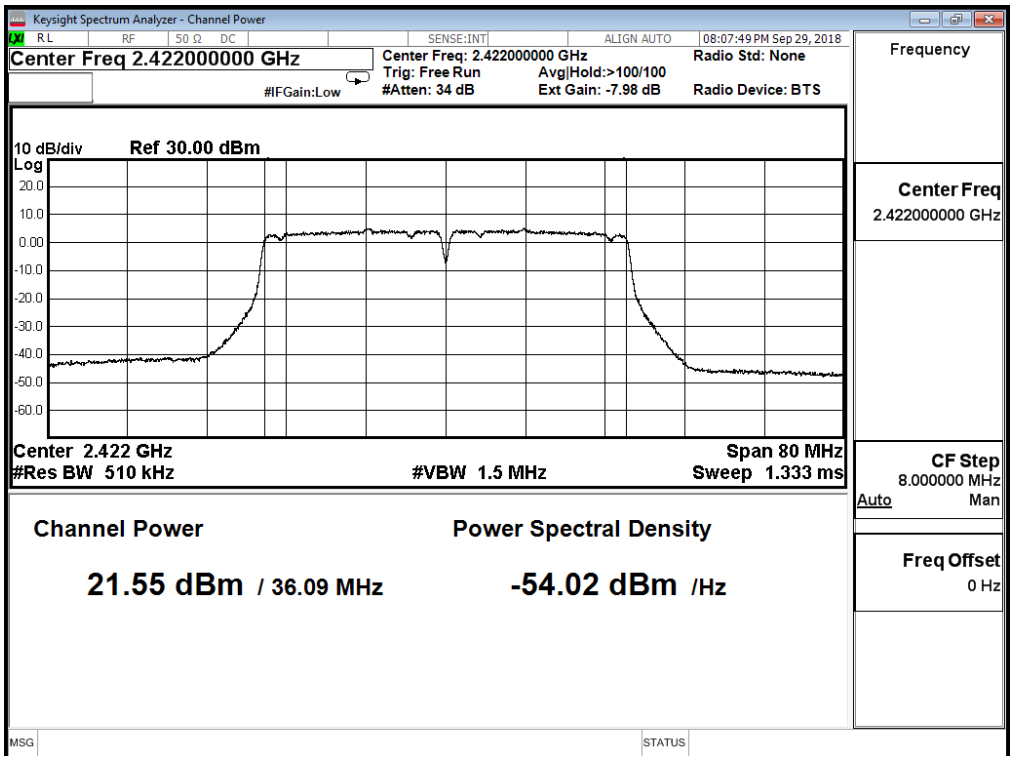
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: TX_BF_NSS2_ADP-65DW Y		
Date of Test	2018/09/29	Test Site	SR10-H

IEEE802.11ac VHT 20M (ANT 0+1+2+3)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	27.927	≦30
6	2437	29.853	≦30
11	2462	25.794	≦30

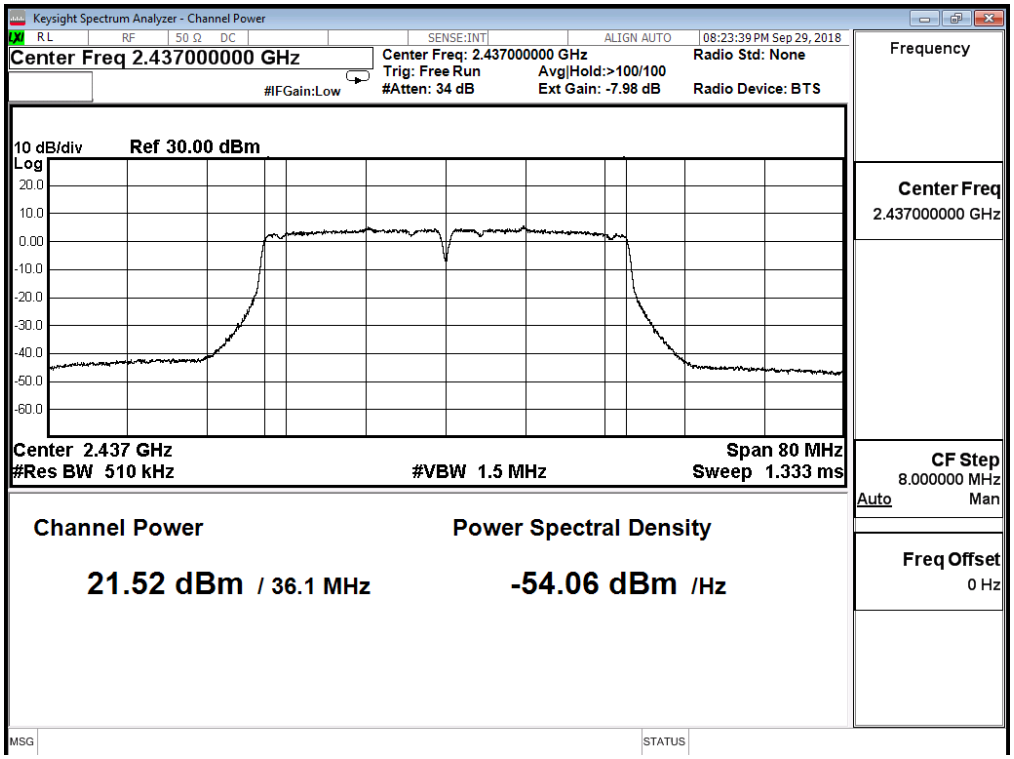
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: TX_BF_NSS2_ADP-65DW Y		
Date of Test	2018/09/29	Test Site	SR10-H

IEEE802.11ac VHT 40M (ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
3	2422	21.550	≦30
6	2437	21.520	≦30
9	2452	18.450	≦30

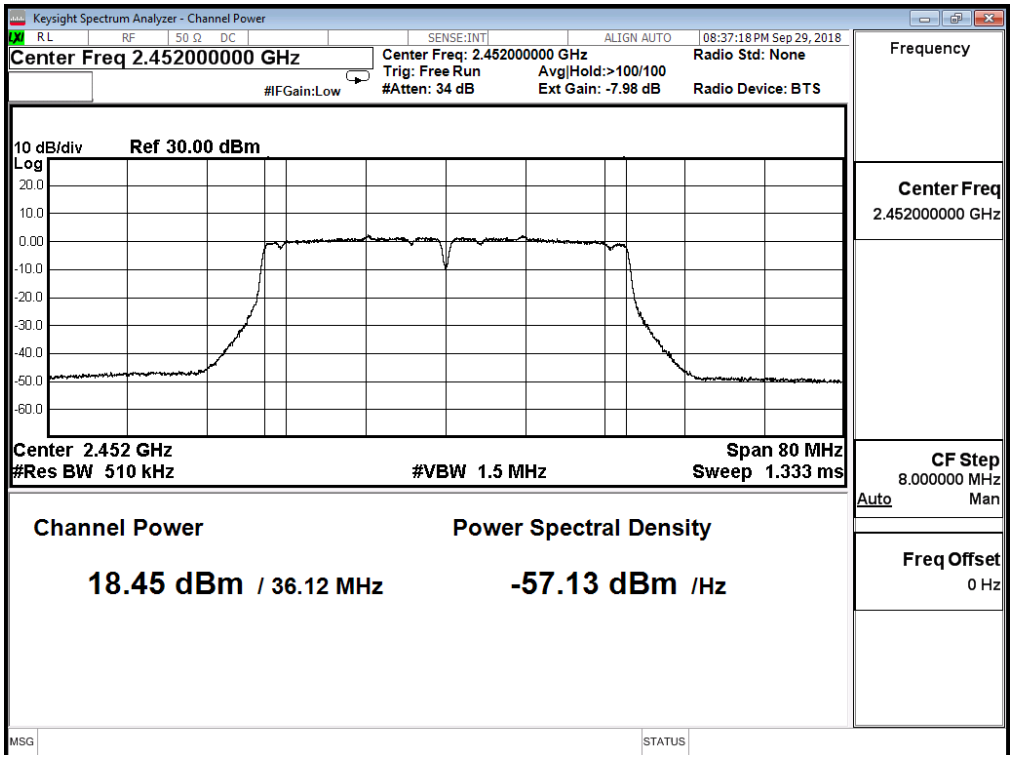
Channel 3 (2422MHz)



Channel 6 (2437MHz)



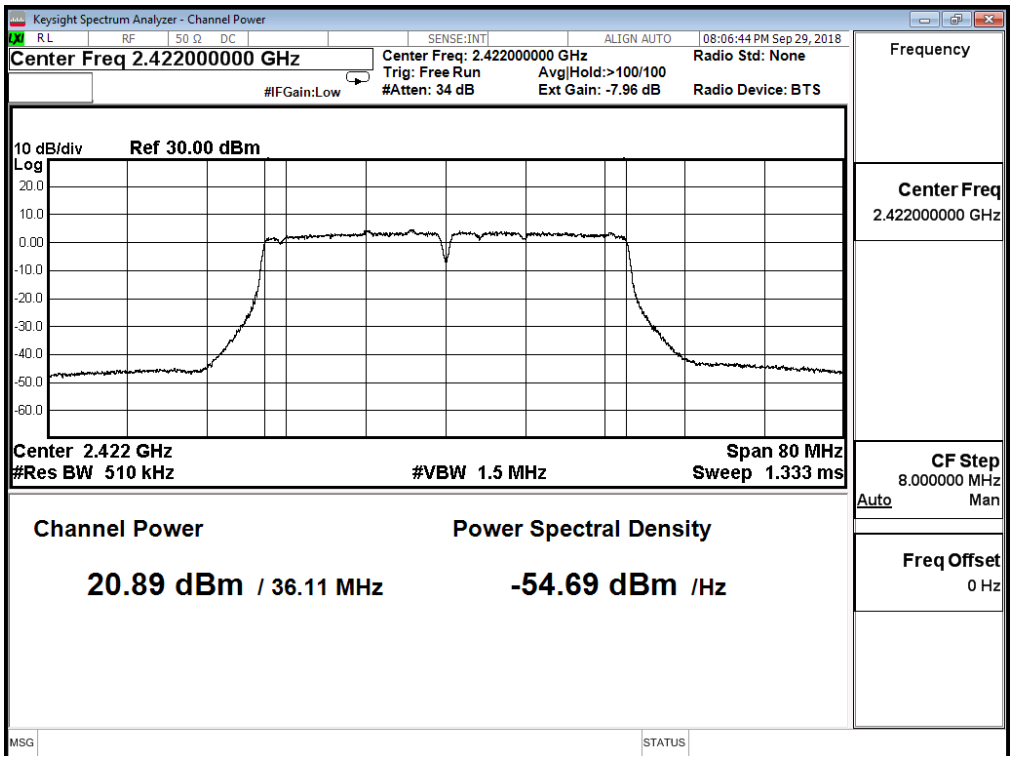
Channel 9 (2452MHz)



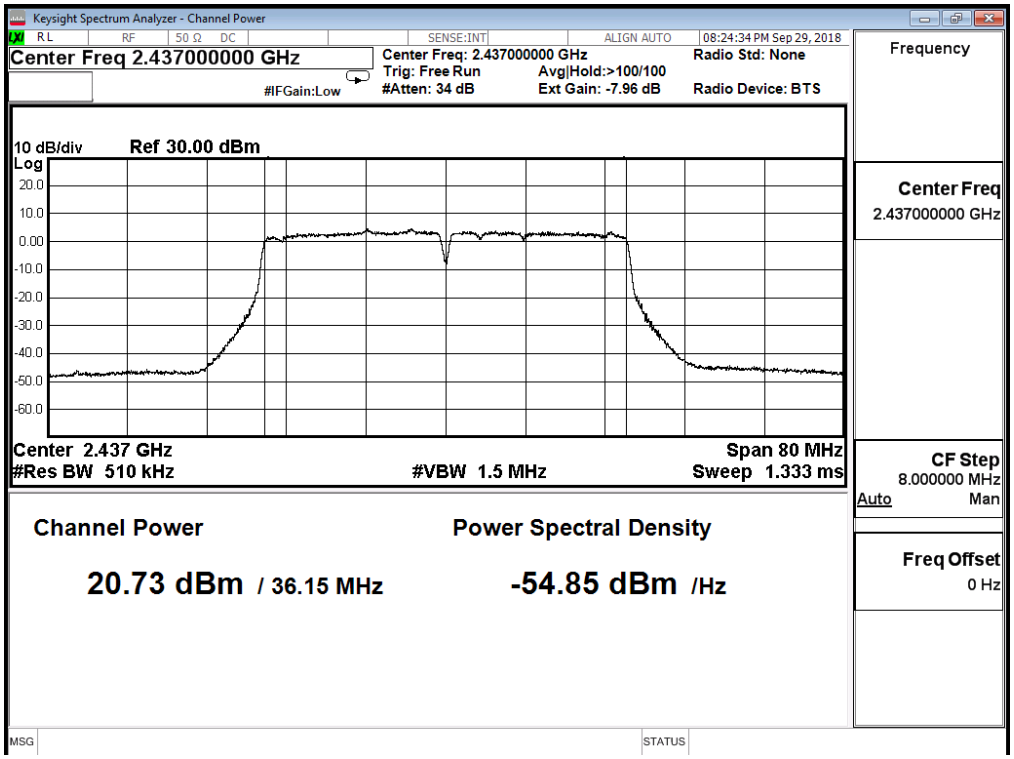
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: TX_BF_NSS2_ADP-65DW Y		
Date of Test	2018/09/29	Test Site	SR10-H

IEEE802.11ac VHT 40M (ANT 1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
3	2422	20.890	≦30
6	2437	20.730	≦30
9	2452	17.840	≦30

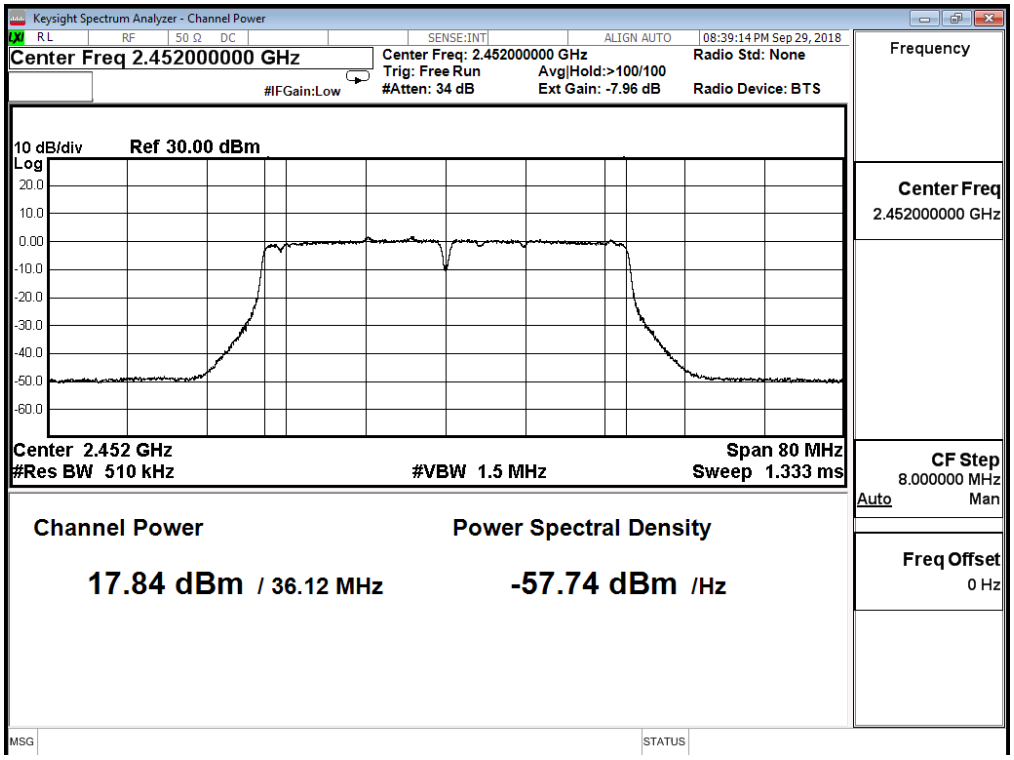
Channel 3 (2422MHz)



Channel 6 (2437MHz)



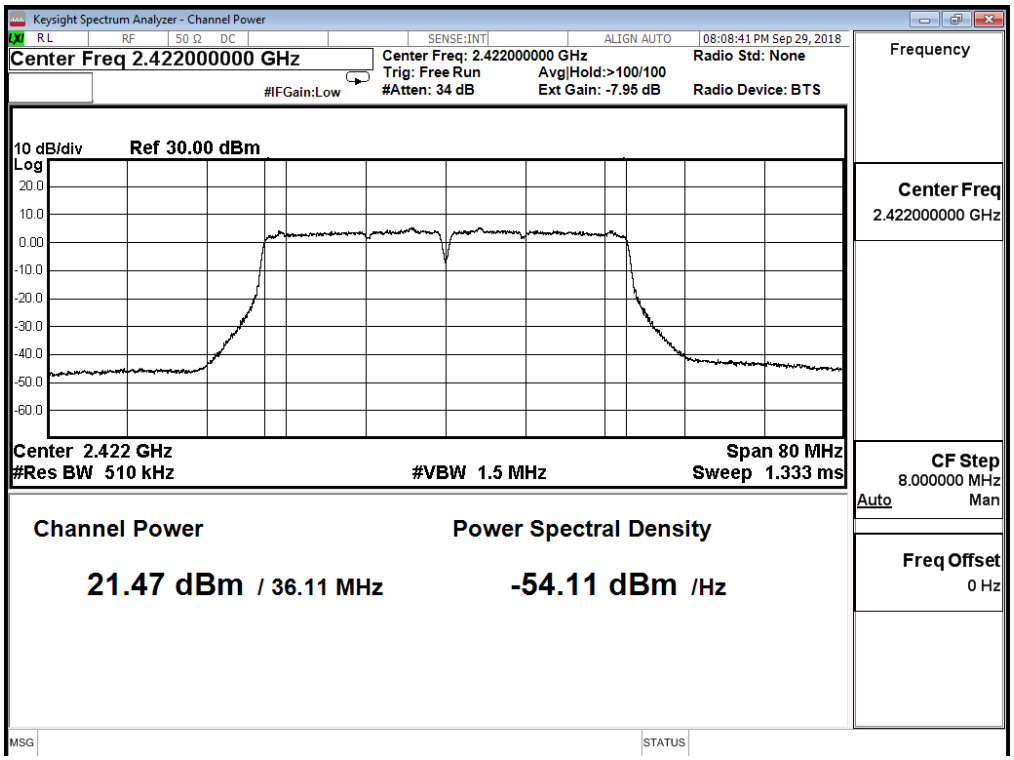
Channel 9 (2452MHz)



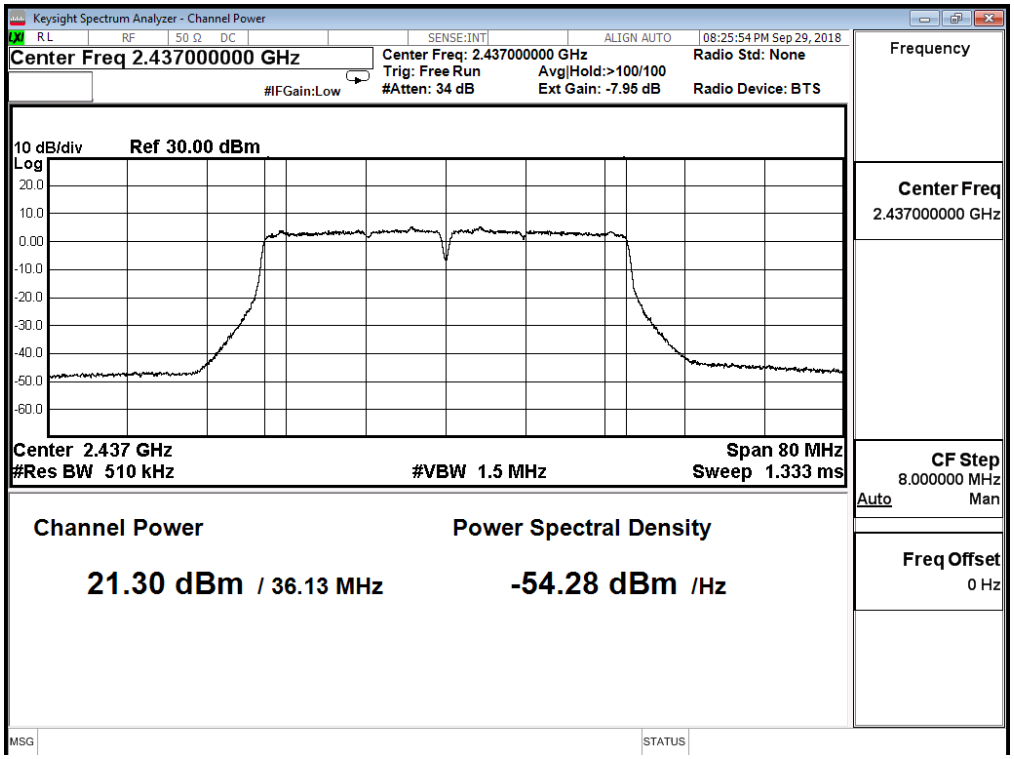
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: TX_BF_NSS2_ADP-65DW Y		
Date of Test	2018/09/29	Test Site	SR10-H

IEEE802.11ac VHT 40M (ANT 2)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
3	2422	21.470	≦30
6	2437	21.300	≦30
9	2452	18.420	≦30

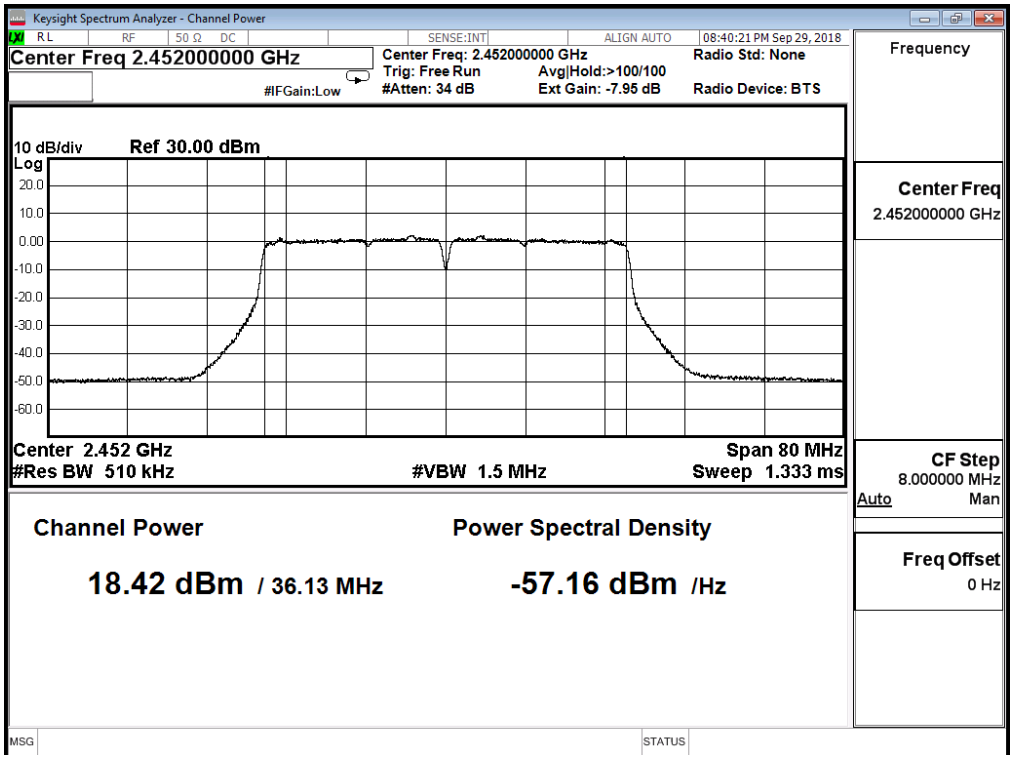
Channel 3 (2422MHz)



Channel 6 (2437MHz)



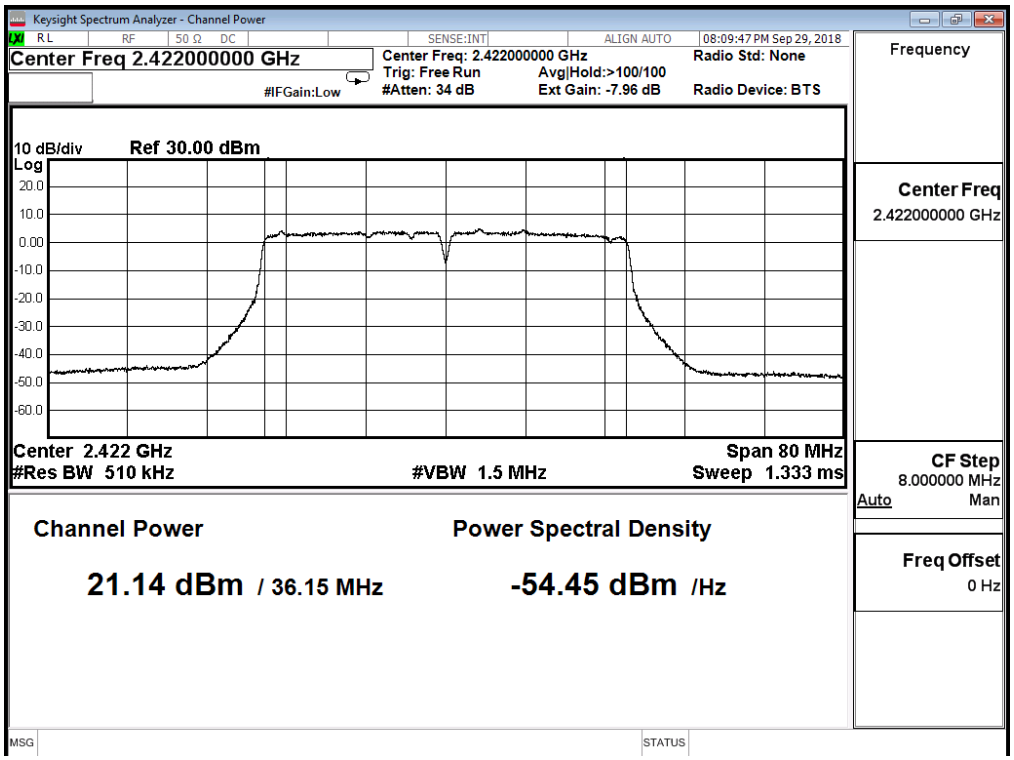
Channel 9 (2452MHz)



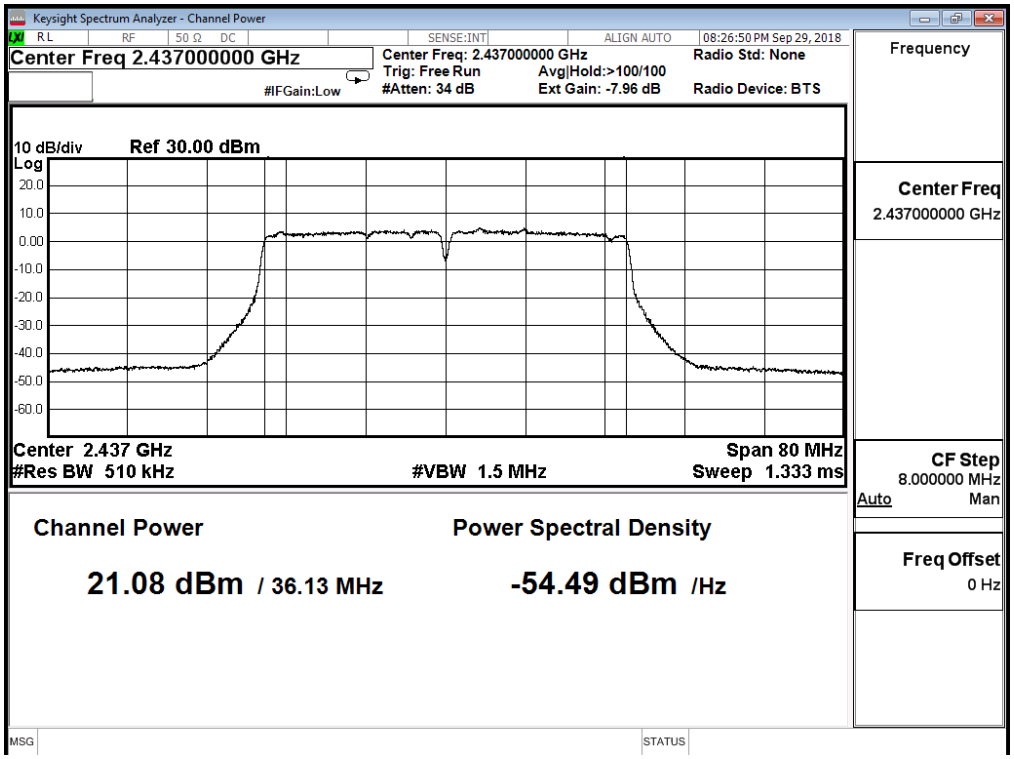
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: TX_BF_NSS2_ADP-65DW Y		
Date of Test	2018/09/29	Test Site	SR10-H

IEEE802.11ac VHT 40M (ANT 3)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
3	2422	21.140	≦30
6	2437	21.080	≦30
9	2452	17.850	≦30

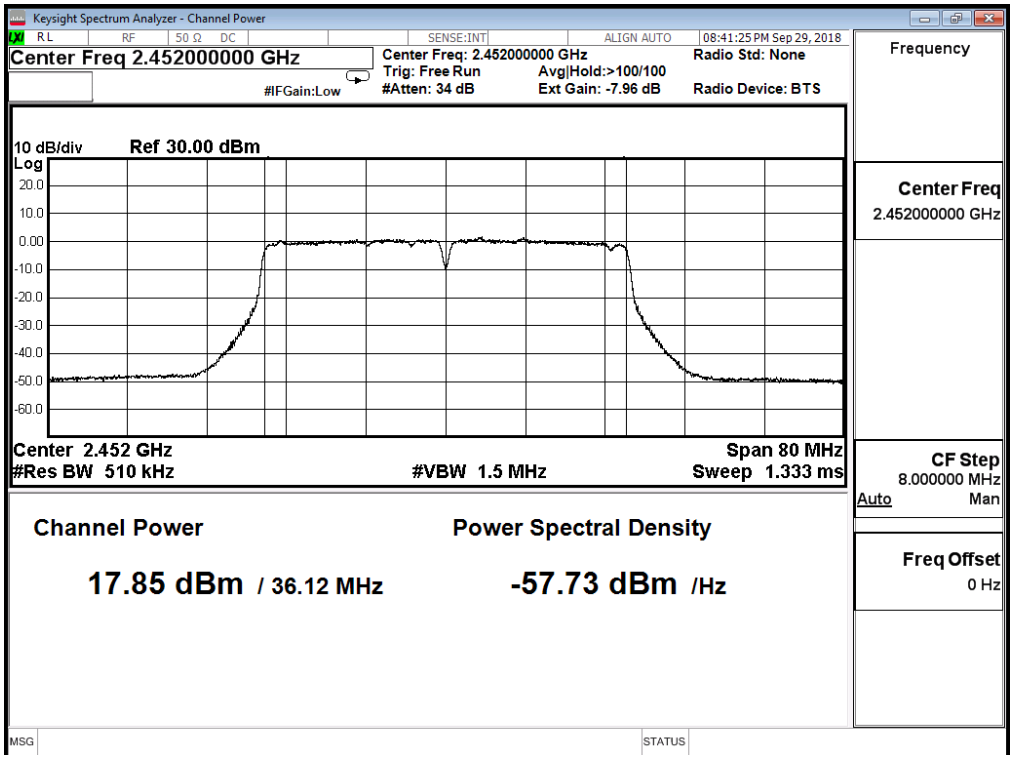
Channel 3 (2422MHz)



Channel 6 (2437MHz)



Channel 9 (2452MHz)



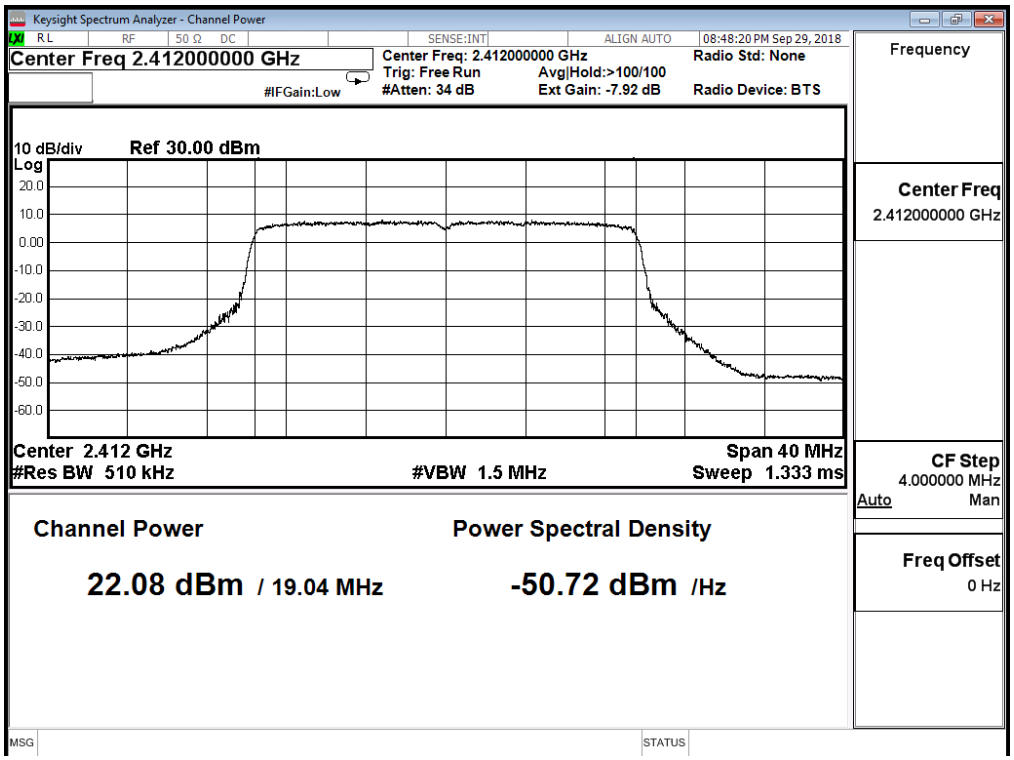
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: TX_BF_NSS2_ADP-65DW Y		
Date of Test	2018/09/29	Test Site	SR10-H

IEEE802.11ac VHT 40M (ANT 0+1+2+3)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
3	2422	27.291	≦30
6	2437	27.188	≦30
9	2452	24.171	≦30

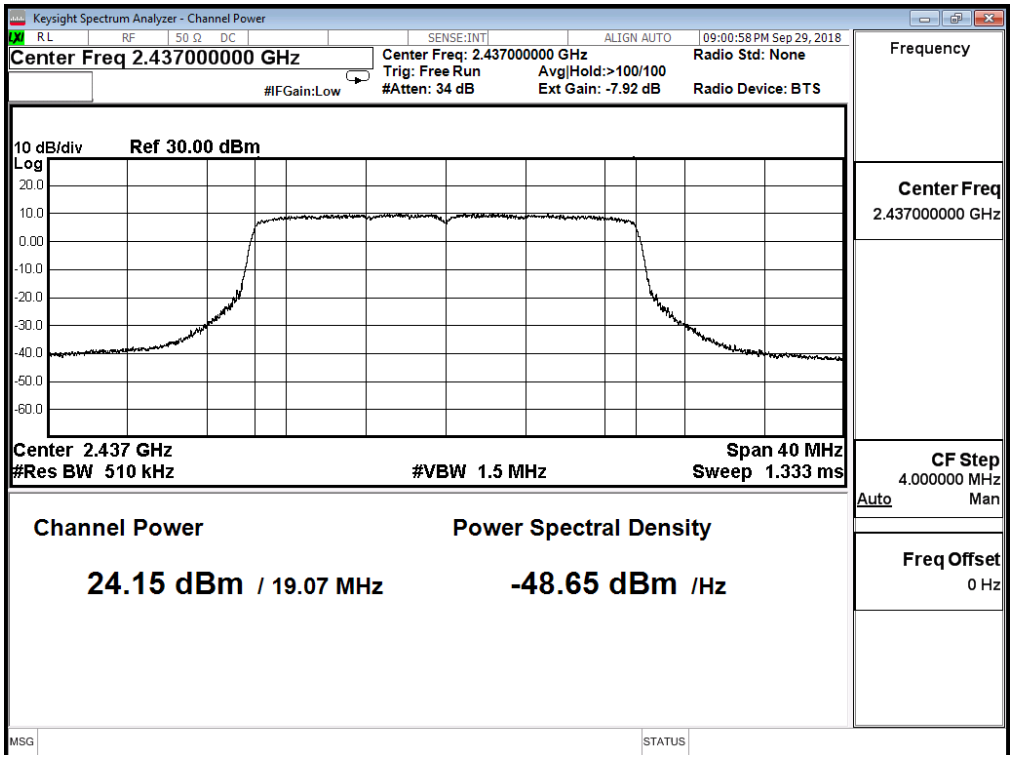
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: TX_BF_NSS2_ADP-65DW Y		
Date of Test	2018/09/29	Test Site	SR10-H

IEEE802.11ax HE 20M (ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	22.080	≦30
6	2437	24.150	≦30
11	2462	19.010	≦30

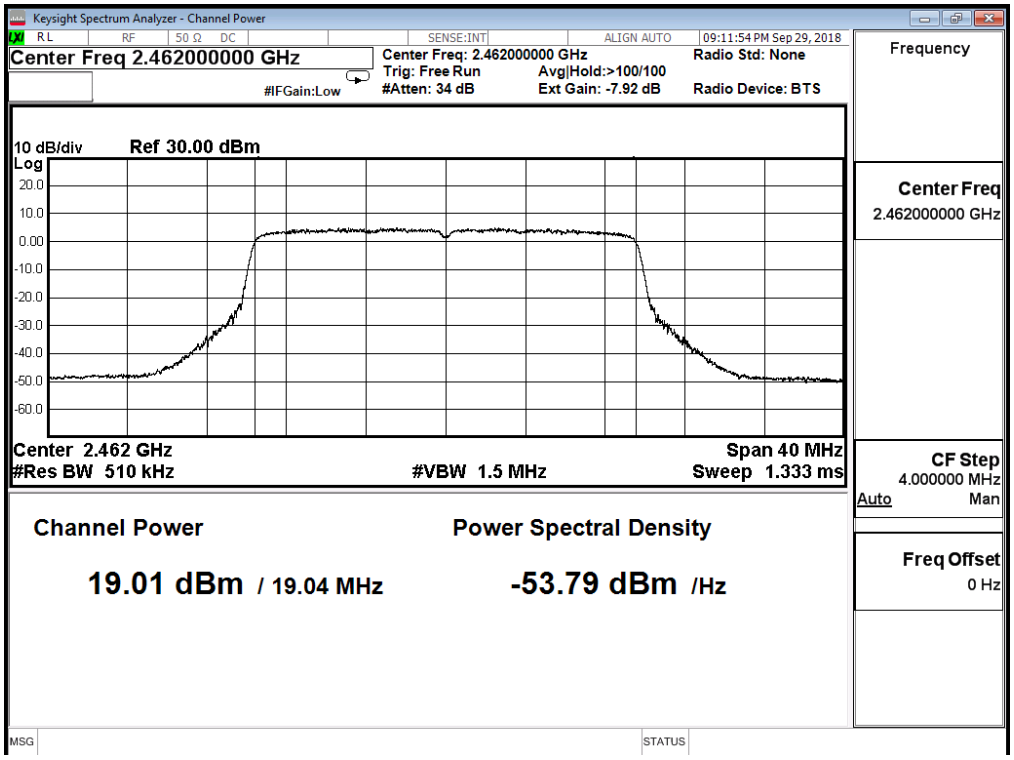
Channel 1 (2412MHz)



Channel 6 (2437MHz)



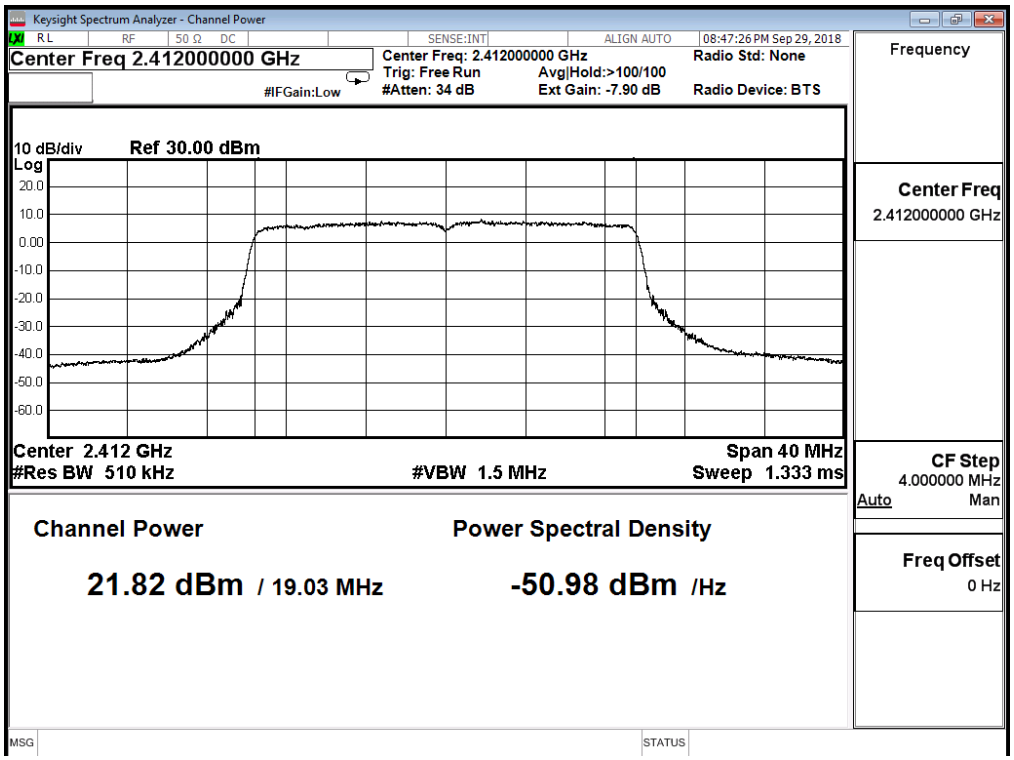
Channel 11 (2462MHz)



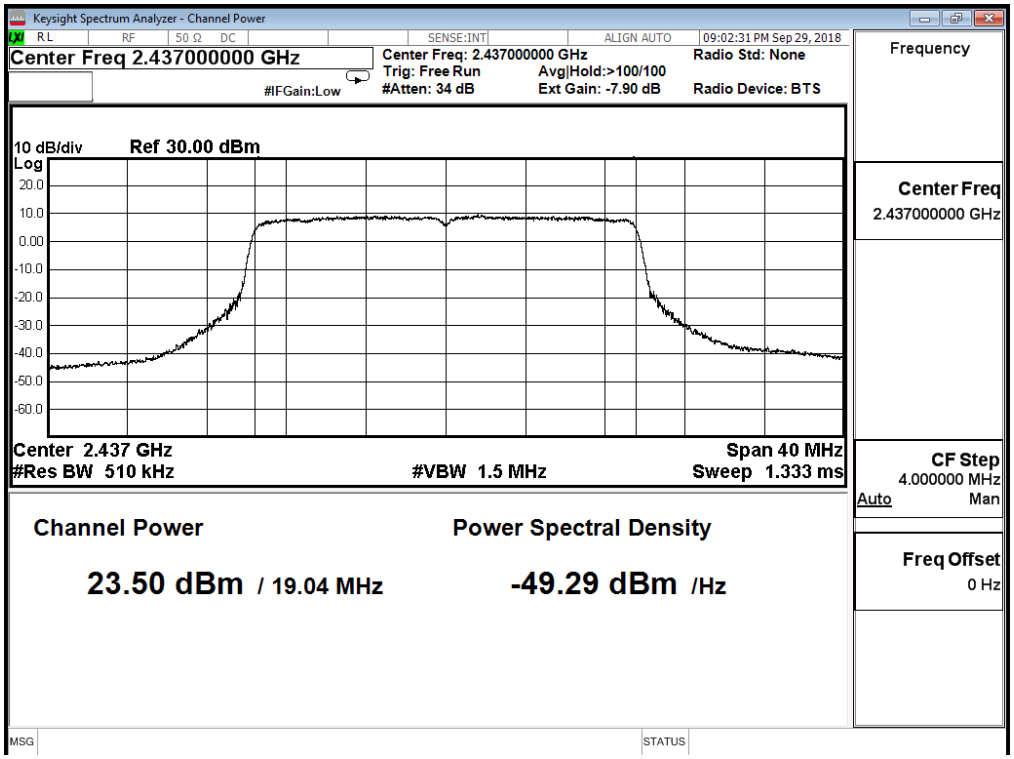
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: TX_BF_NSS2_ADP-65DW Y		
Date of Test	2018/09/29	Test Site	SR10-H

IEEE802.11ax HE 20M (ANT 1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	21.820	≦30
6	2437	23.500	≦30
11	2462	18.560	≦30

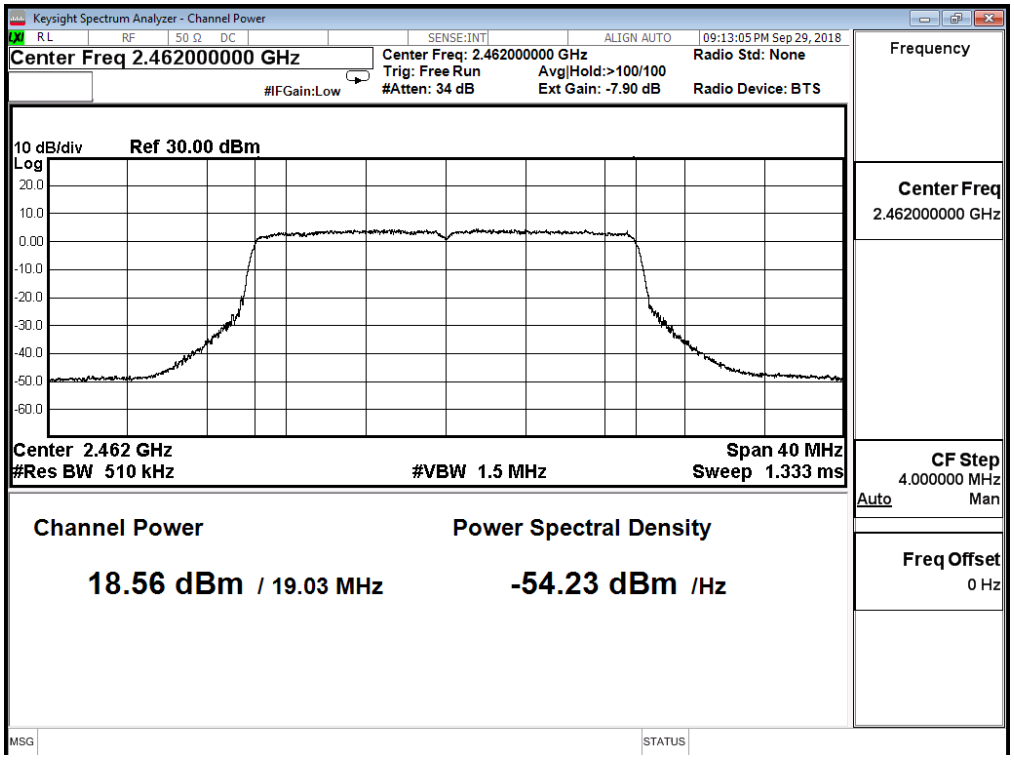
Channel 1 (2412MHz)



Channel 6 (2437MHz)



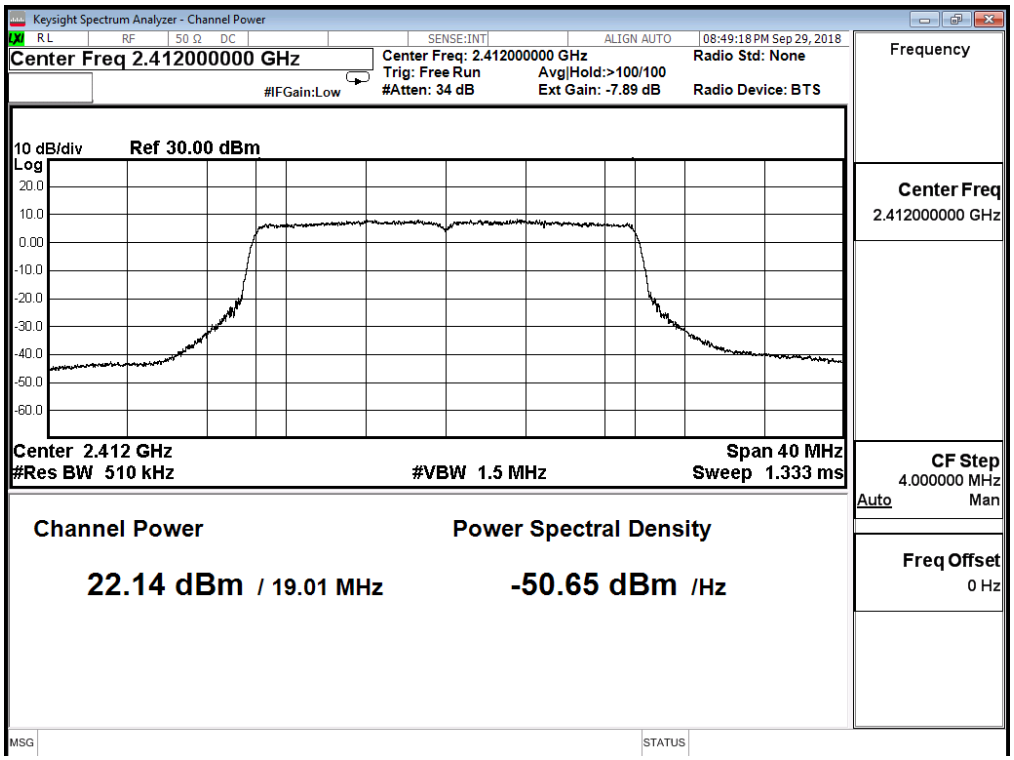
Channel 11 (2462MHz)



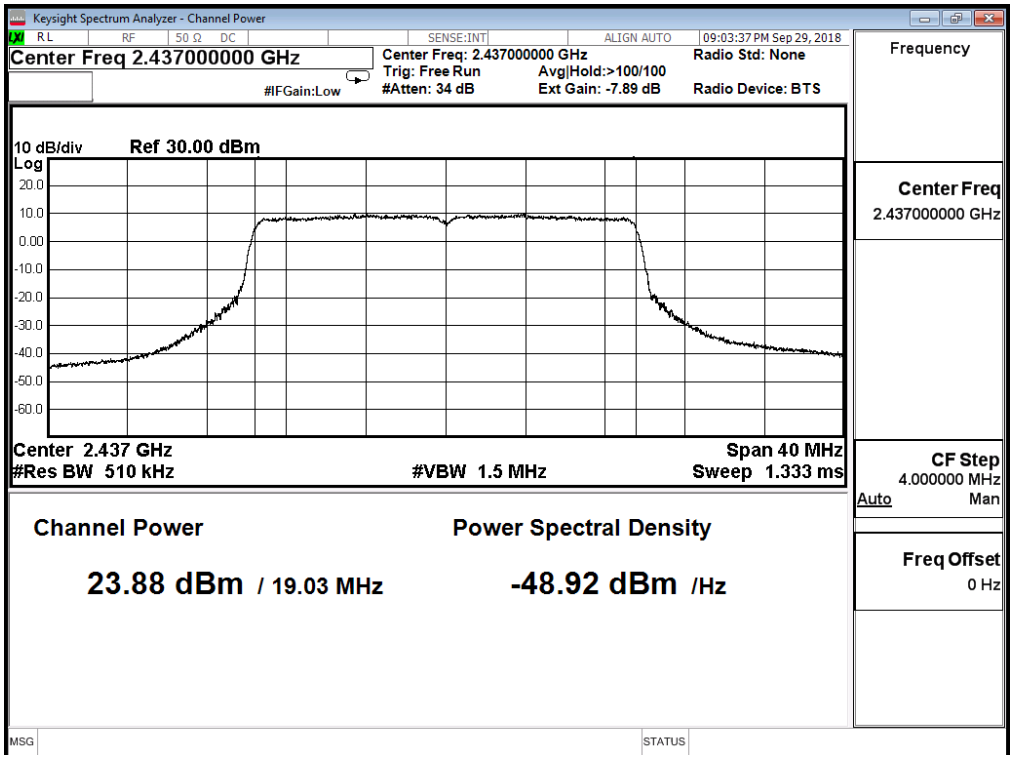
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: TX_BF_NSS2_ADP-65DW Y		
Date of Test	2018/09/29	Test Site	SR10-H

IEEE802.11ax HE 20M (ANT 2)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	22.140	≦30
6	2437	23.880	≦30
11	2462	19.010	≦30

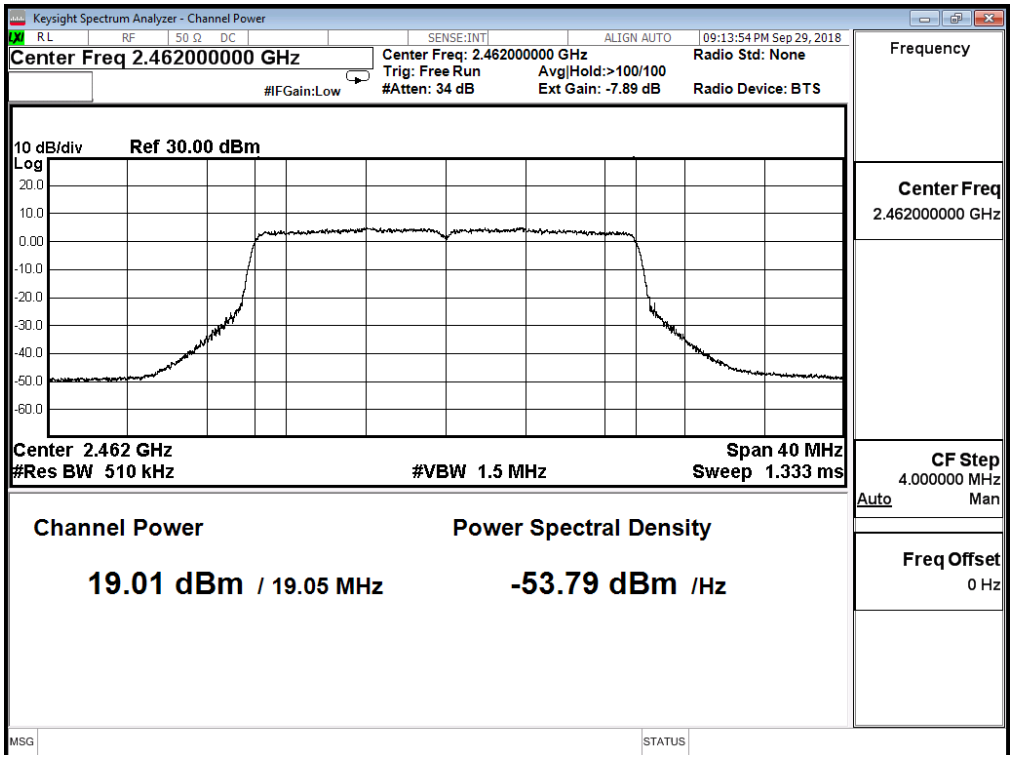
Channel 1 (2412MHz)



Channel 6 (2437MHz)



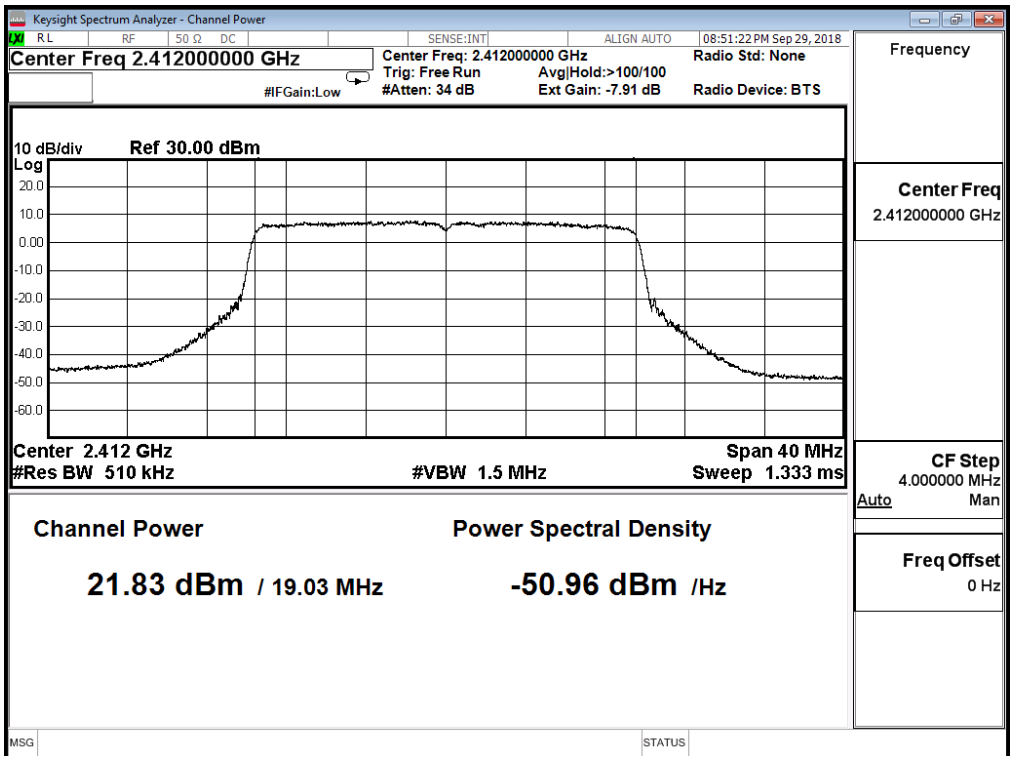
Channel 11 (2462MHz)



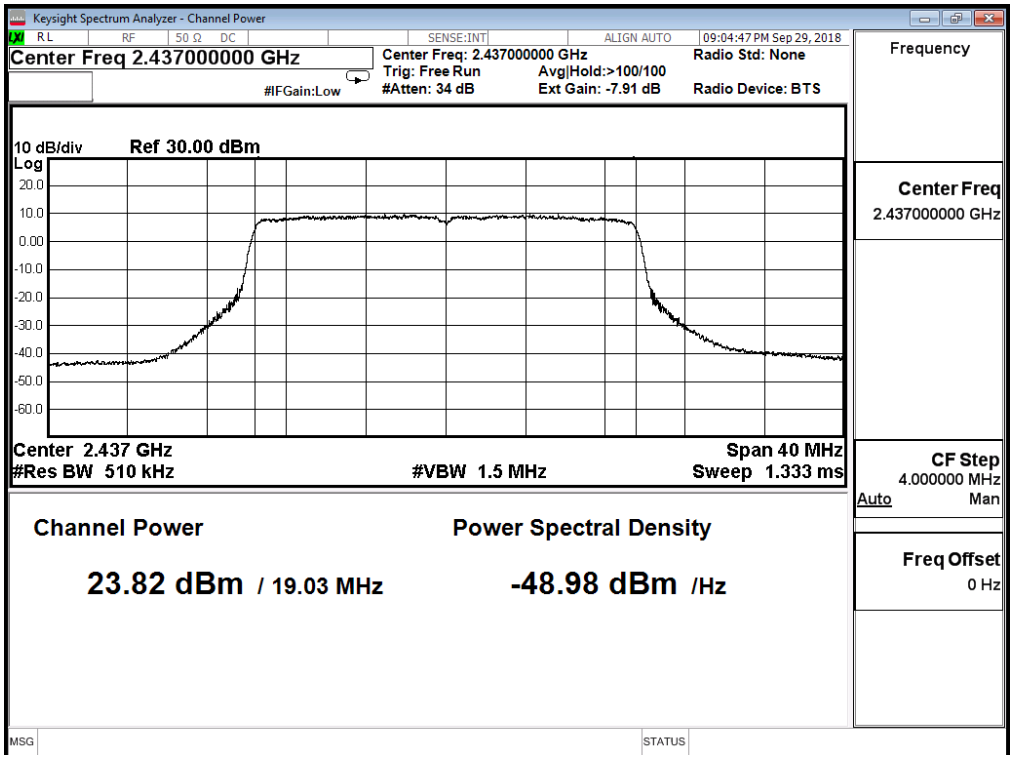
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: TX_BF_NSS2_ADP-65DW Y		
Date of Test	2018/09/29	Test Site	SR10-H

IEEE802.11ax HE 20M (ANT 3)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	21.830	≦30
6	2437	23.820	≦30
11	2462	18.660	≦30

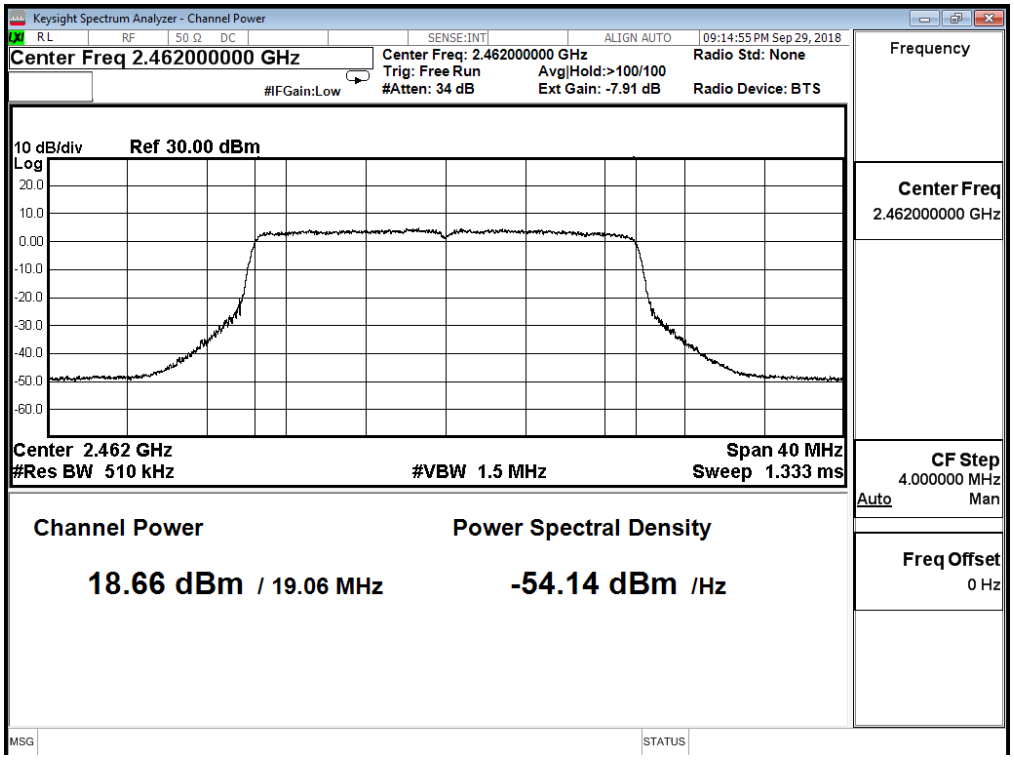
Channel 1 (2412MHz)



Channel 6 (2437MHz)



Channel 11 (2462MHz)



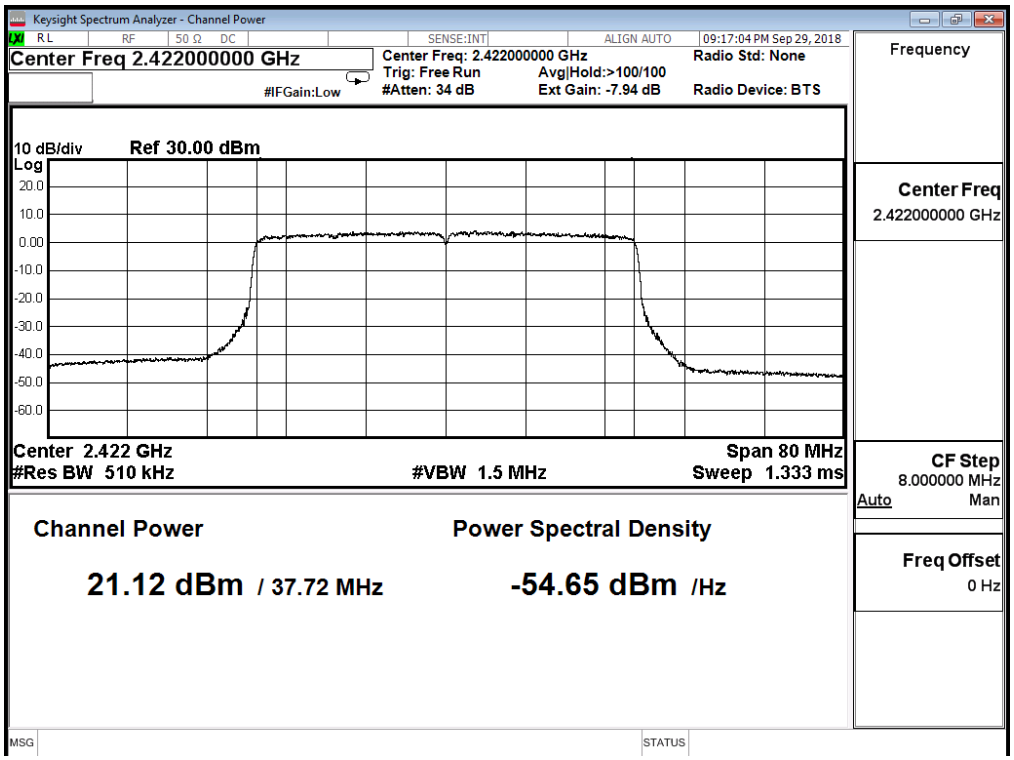
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: TX_BF_NSS2_ADP-65DW Y		
Date of Test	2018/09/29	Test Site	SR10-H

IEEE802.11ax HE 20M (ANT 0+1+2+3)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	27.990	≦30
6	2437	29.864	≦30
11	2462	24.835	≦30

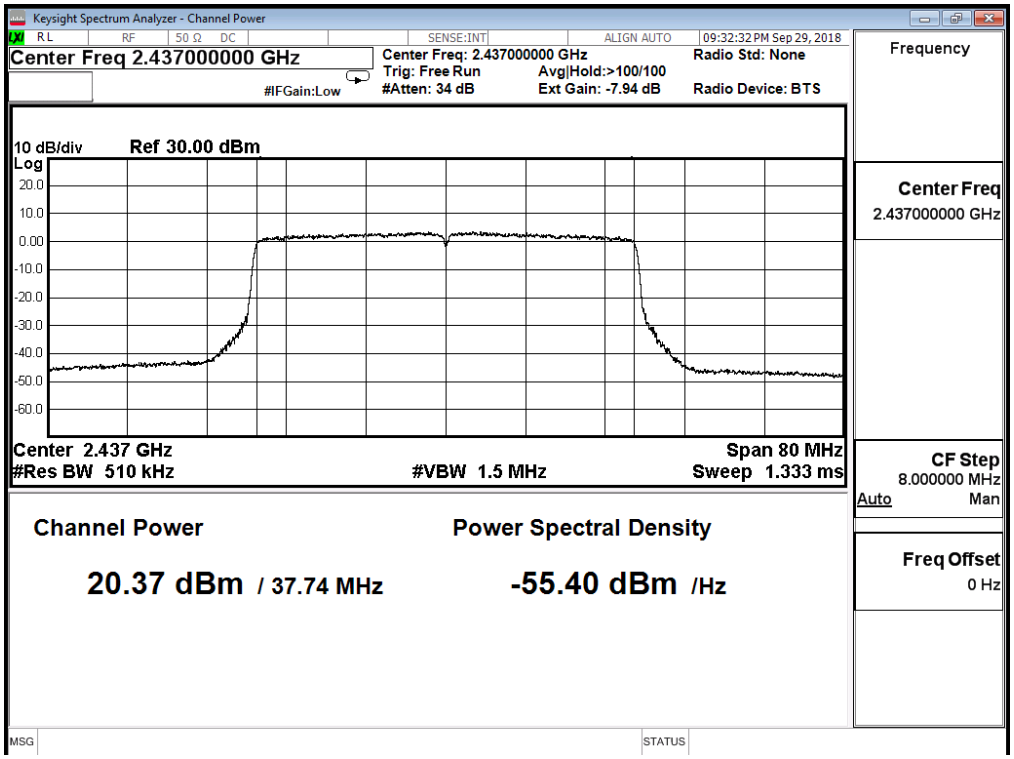
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: TX_BF_NSS2_ADP-65DW Y		
Date of Test	2018/09/29	Test Site	SR10-H

IEEE802.11ax HE 40M (ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
3	2422	21.120	≦30
6	2437	20.370	≦30
9	2452	18.360	≦30

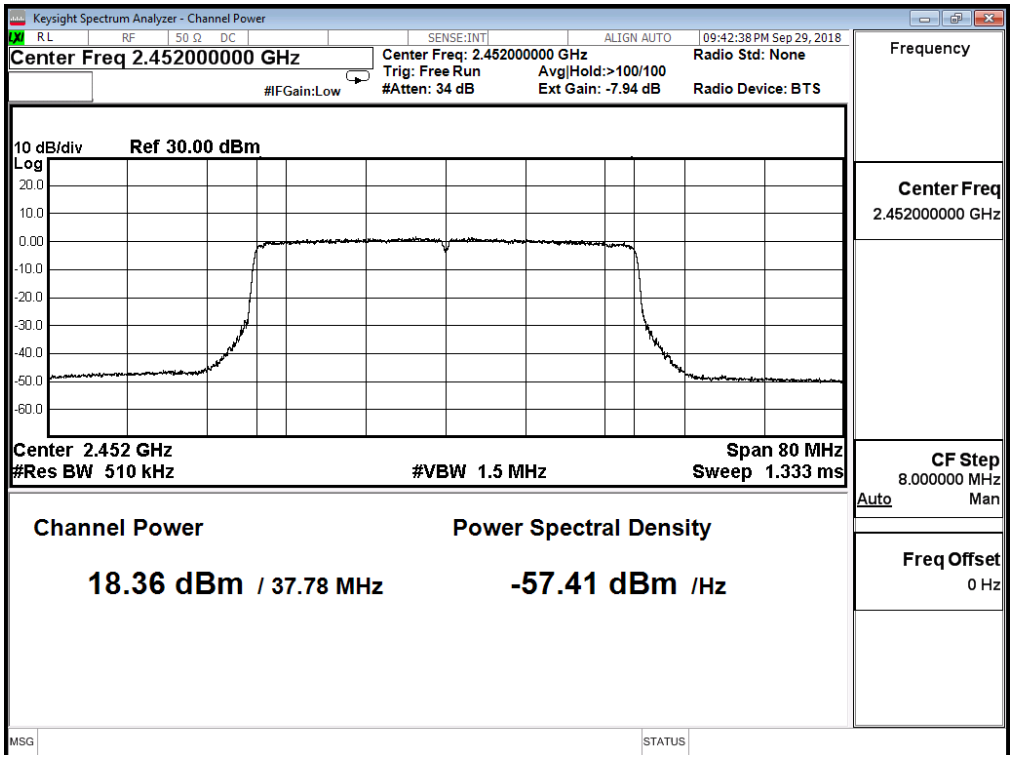
Channel 3 (2422MHz)



Channel 6 (2437MHz)



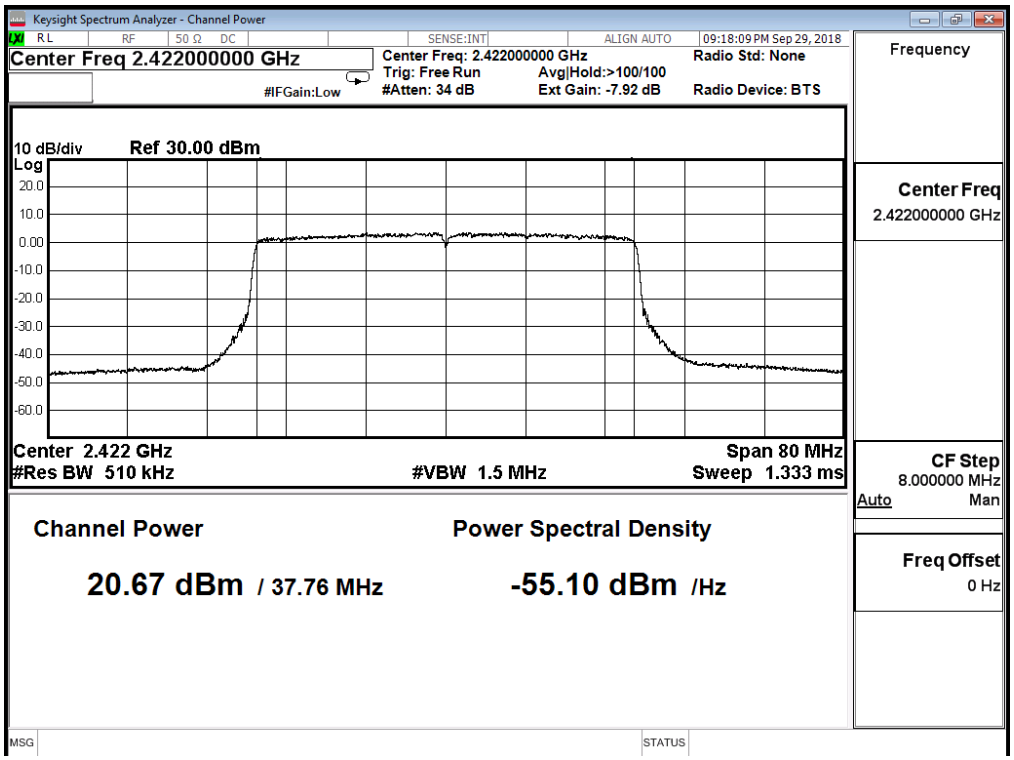
Channel 9 (2452MHz)



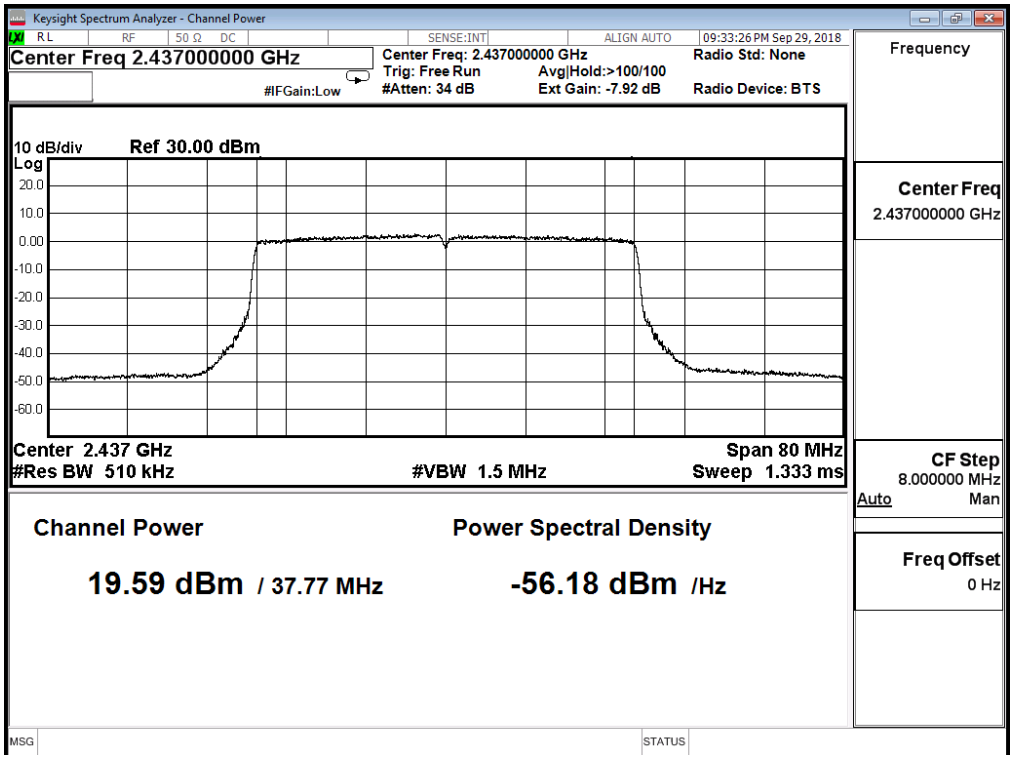
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: TX_BF_NSS2_ADP-65DW Y		
Date of Test	2018/09/29	Test Site	SR10-H

IEEE802.11ax HE 40M (ANT 1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
3	2422	20.670	≦30
6	2437	19.590	≦30
9	2452	17.790	≦30

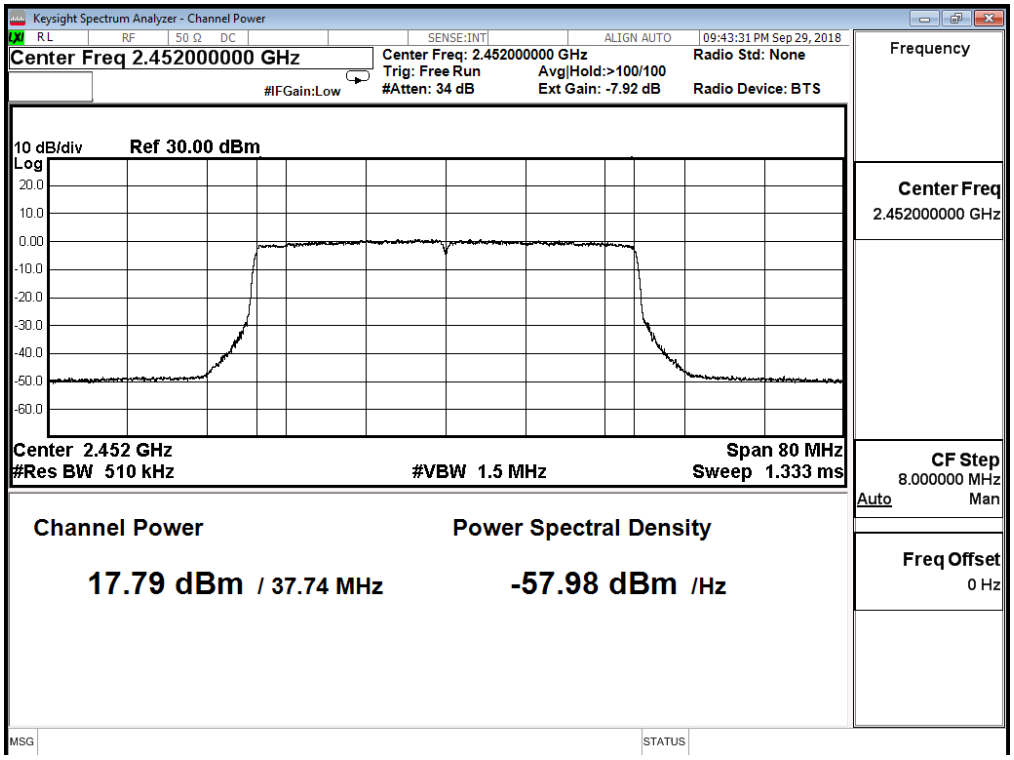
Channel 3 (2422MHz)



Channel 6 (2437MHz)



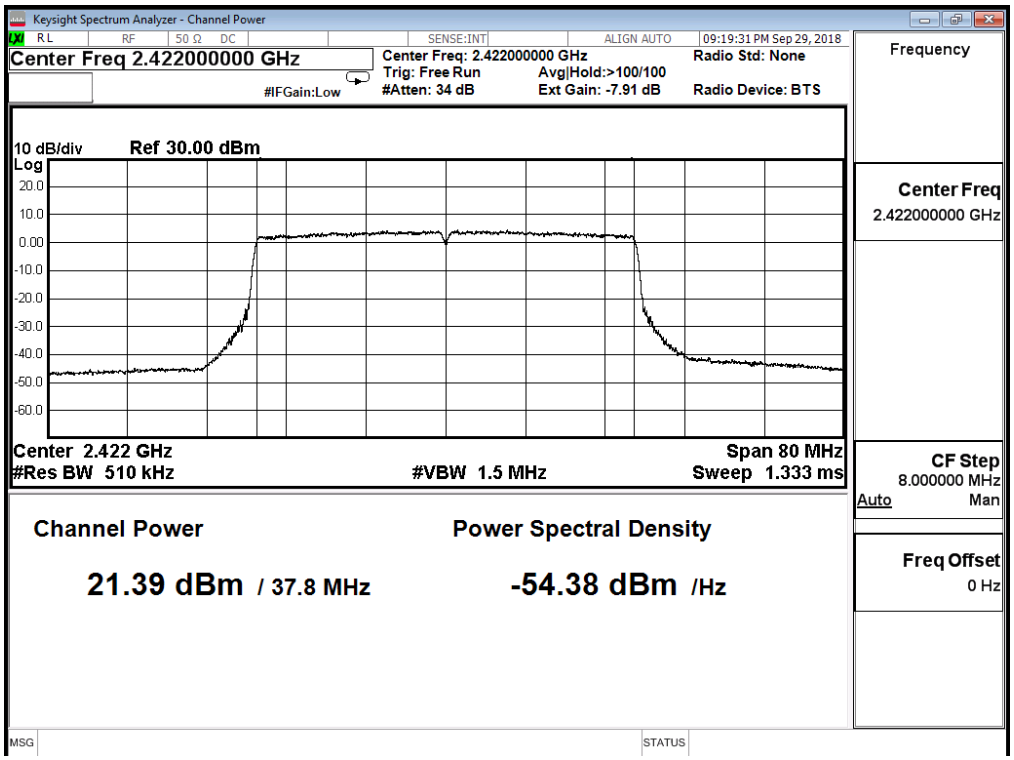
Channel 9 (2452MHz)



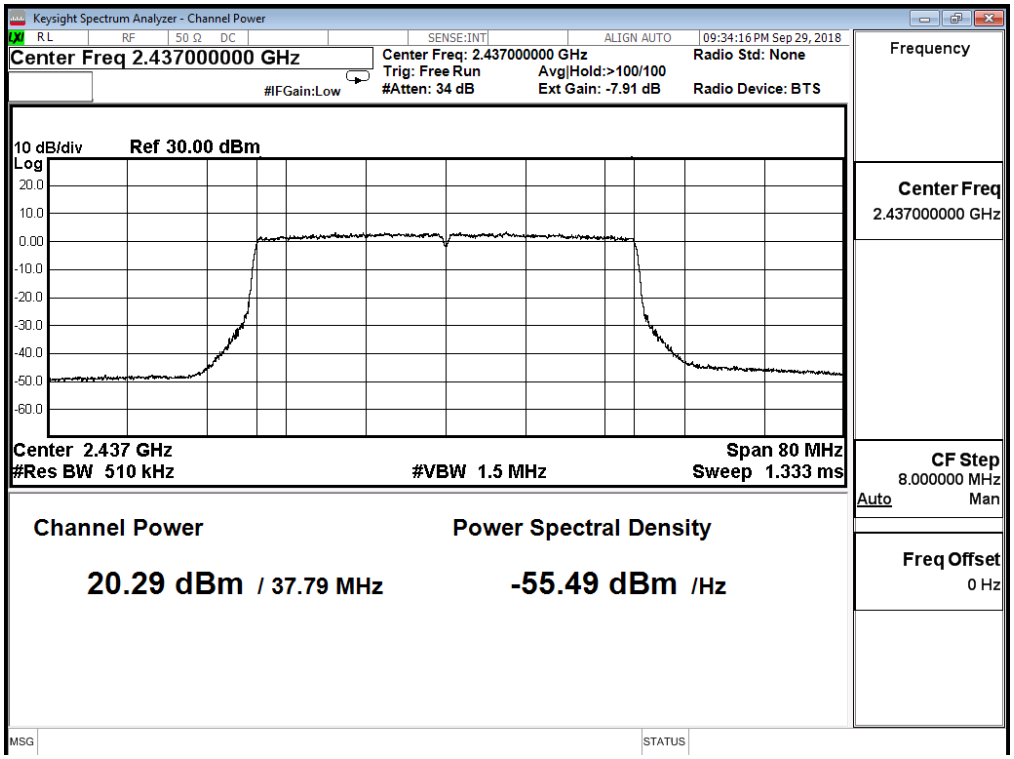
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: TX_BF_NSS2_ADP-65DW Y		
Date of Test	2018/09/29	Test Site	SR10-H

IEEE802.11ax HE 40M (ANT 2)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
3	2422	21.390	≦30
6	2437	20.290	≦30
9	2452	18.380	≦30

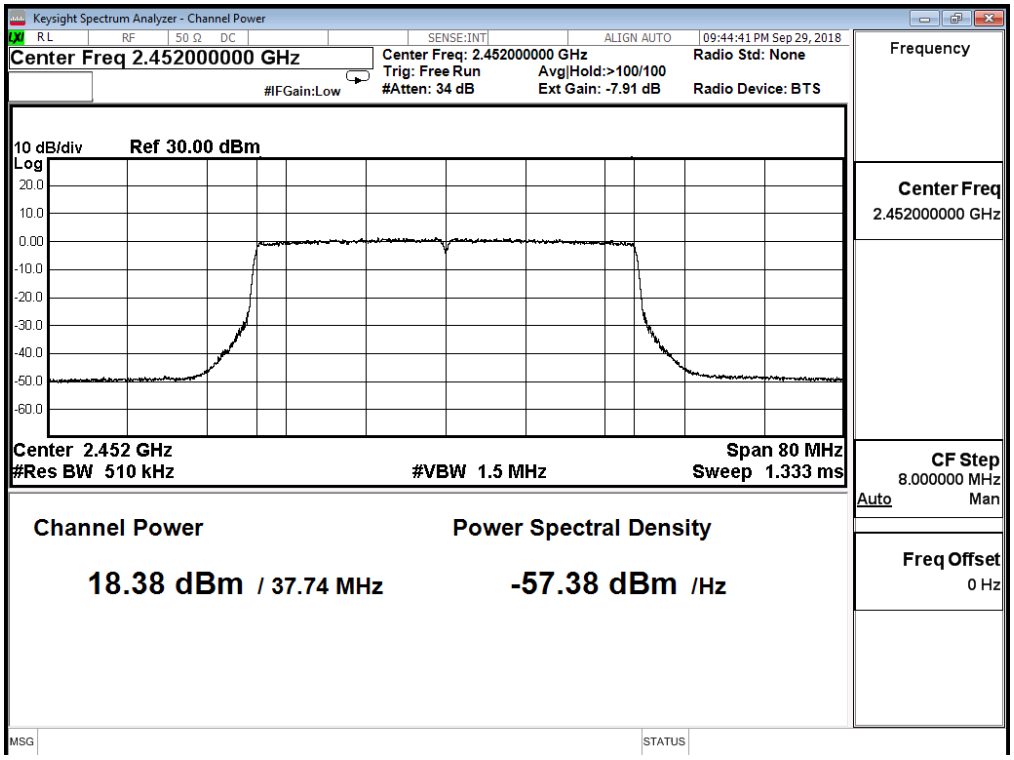
Channel 3 (2422MHz)



Channel 6 (2437MHz)



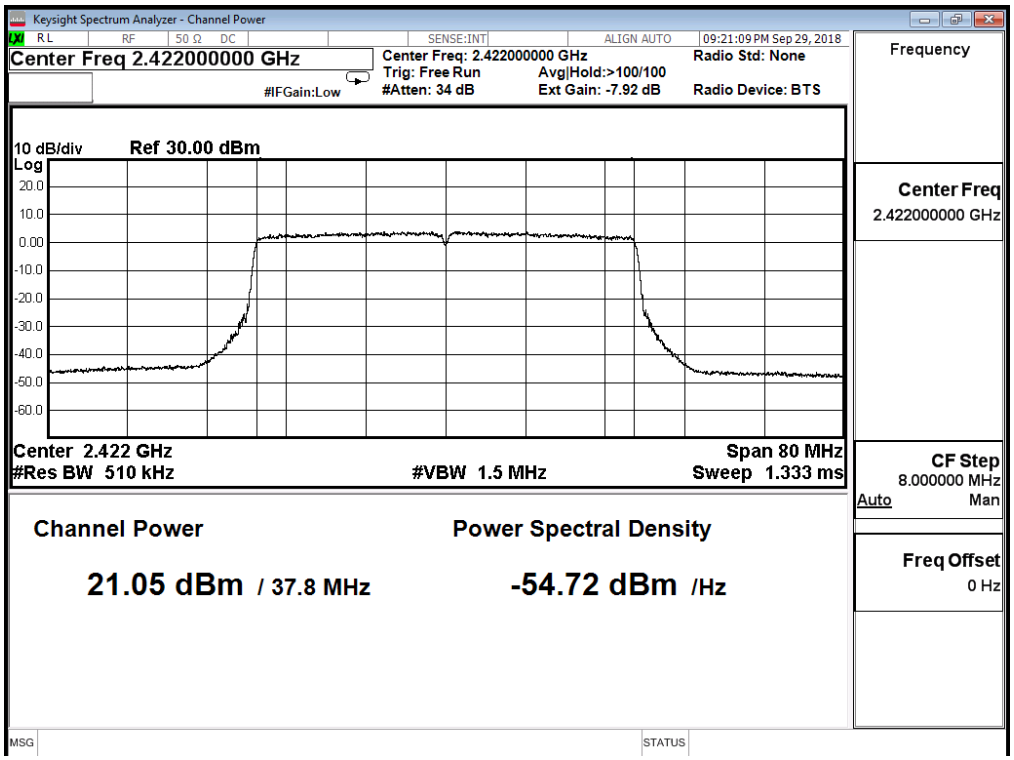
Channel 9 (2452MHz)



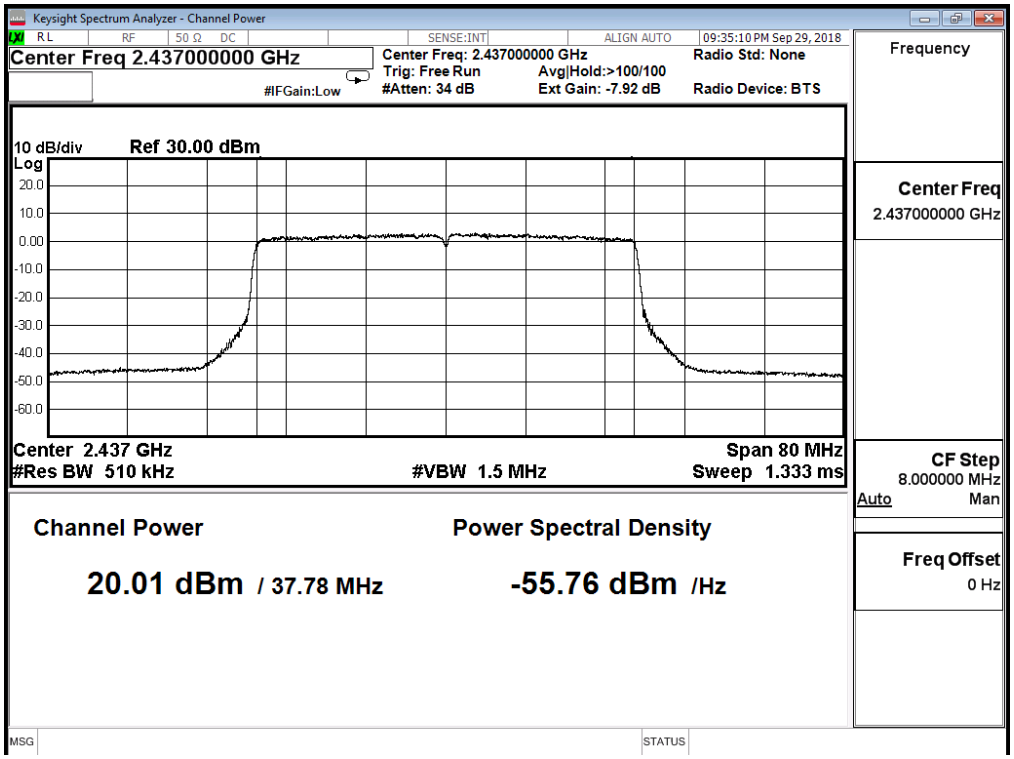
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: TX_BF_NSS2_ADP-65DW Y		
Date of Test	2018/09/29	Test Site	SR10-H

IEEE802.11ax HE 40M (ANT 3)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
3	2422	21.050	≦30
6	2437	20.010	≦30
9	2452	17.770	≦30

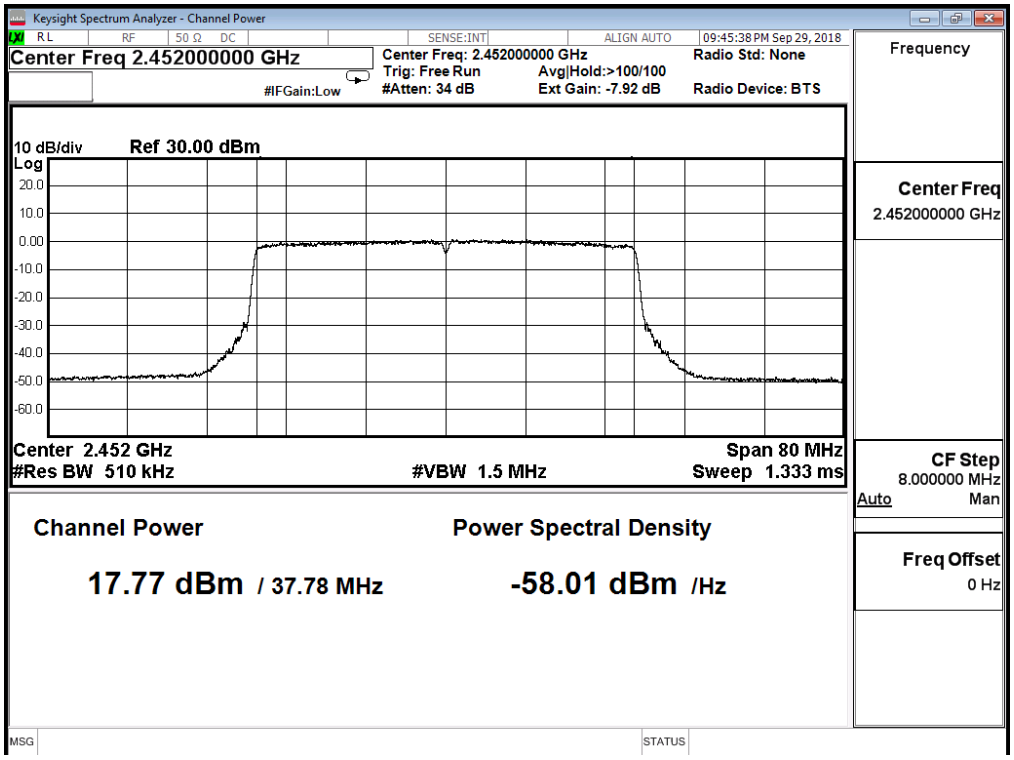
Channel 3 (2422MHz)



Channel 6 (2437MHz)



Channel 9 (2452MHz)



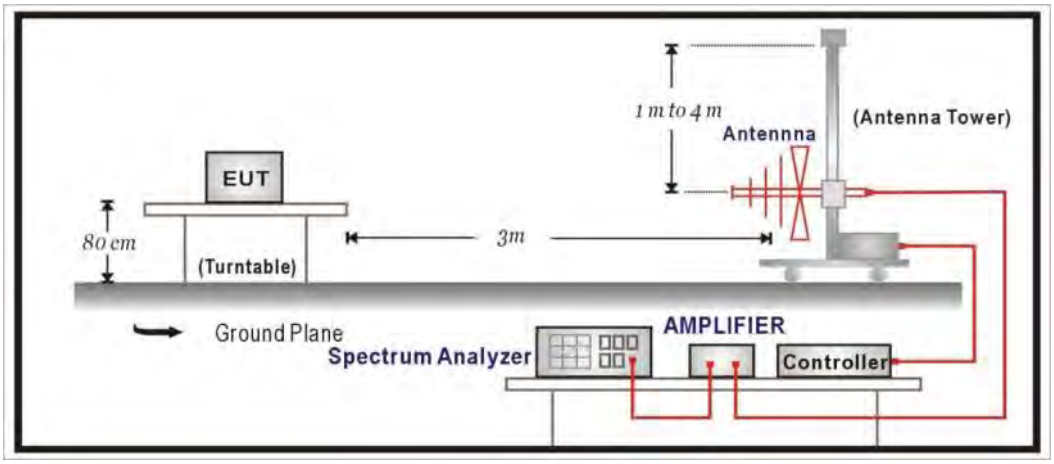
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: TX_BF_NSS2_ADP-65DW Y		
Date of Test	2018/09/29	Test Site	SR10-H

IEEE802.11ax HE 40M (ANT 0+1+2+3)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
3	2422	27.086	≦30
6	2437	26.096	≦30
9	2452	24.106	≦30

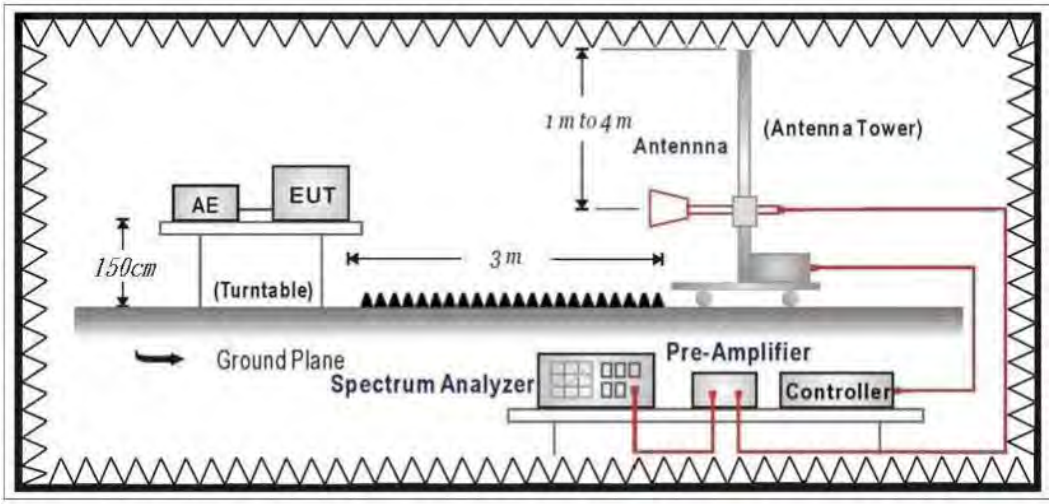
4. Radiated Emission

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 KDB558074 D01 V04 for compliance to FCC 47CFR 15.247 requirements.
The EUT and its simulators are placed on a turn table which is 1.5 meter above ground(under 1GHz) or 1.5 meter above ground (above 1GHz). The turn table can rotate 360 degrees to determine the position of the maximum emission level.
The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.
Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to
ANSI C63.10:2013 on radiated measurement.
On any frequency or frequencies below or equal to 1000 MHz, the limits shown are based on measuring equipment employing a quasi-peak detector function and on any frequency or frequencies above 1000 MHz the radiated limits shown are based upon the use of measurement instrumentation employing an average detector function. When average radiated emission measurement are included emission measurement below 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.
The bandwidth below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz.

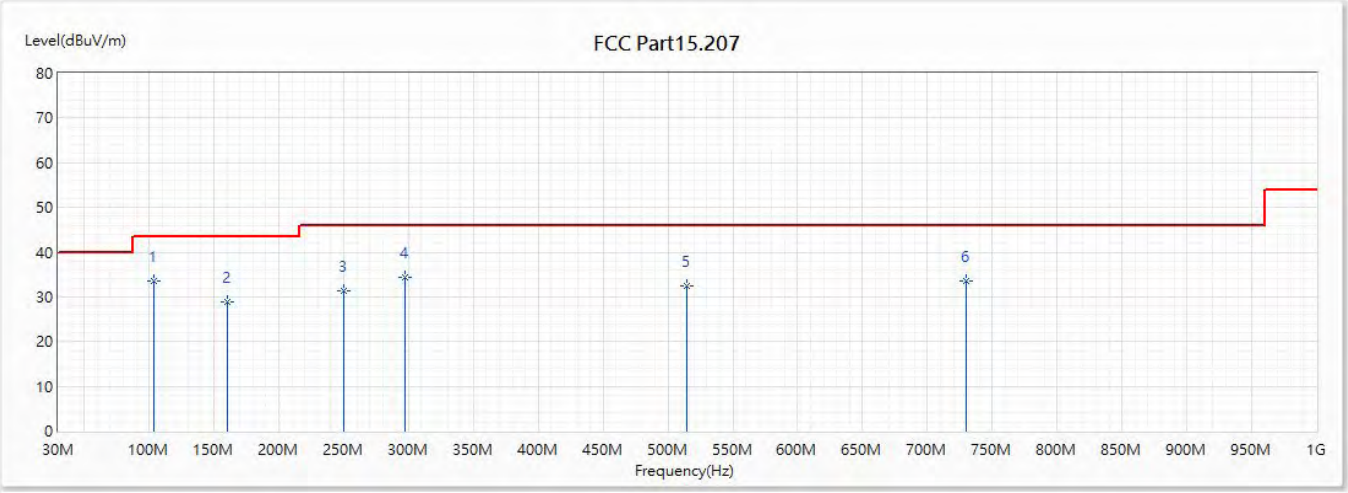
4.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2017

4.5. Test Result

30MHz-1GHz Spurious

Site :	CB4-H	Engineer :	Carter
Model No :	GT-AC5400	Test Date :	2018/10/1
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 2: TX_AC5400_Tranformer 1_AD2087320		
Note :	802.11ax(40M)_2437MHz		

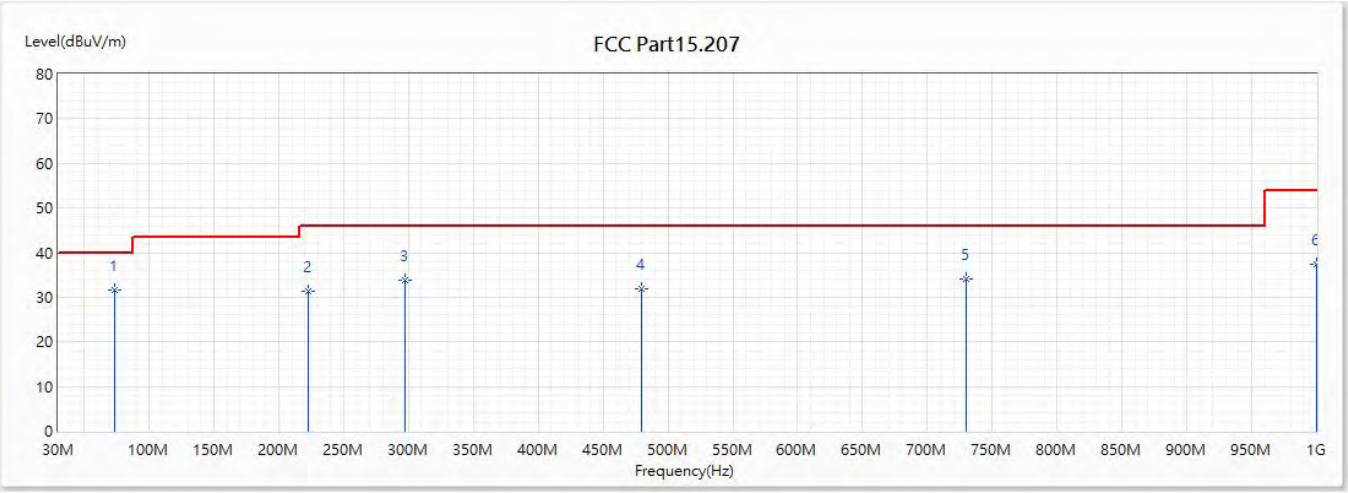


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	103.963	33.56	43.50	-9.94	54.93	-21.37	QUASIPEAK
2	159.98	28.99	43.50	-14.51	51.43	-22.44	QUASIPEAK
3	249.948	31.31	46.00	-14.69	52.16	-20.85	QUASIPEAK
4	296.993	34.24	46.00	-11.76	53.54	-19.30	QUASIPEAK
5	514.758	32.51	46.00	-13.49	46.26	-13.75	QUASIPEAK
6	729.613	33.52	46.00	-12.48	44.70	-11.18	QUASIPEAK

Note:

1. All Reading Levels is Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor
4. The Emission under 30MHz were not included is because their levels are too low.

Site :	CB4-H	Engineer :	Carter
Model No :	GT-AC5400	Test Date :	2018/10/1
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode :	Mode 2: TX_AC5400_Tranformer 1_AD2087320		
Note :	802.11ax(40M)_2437MHz		

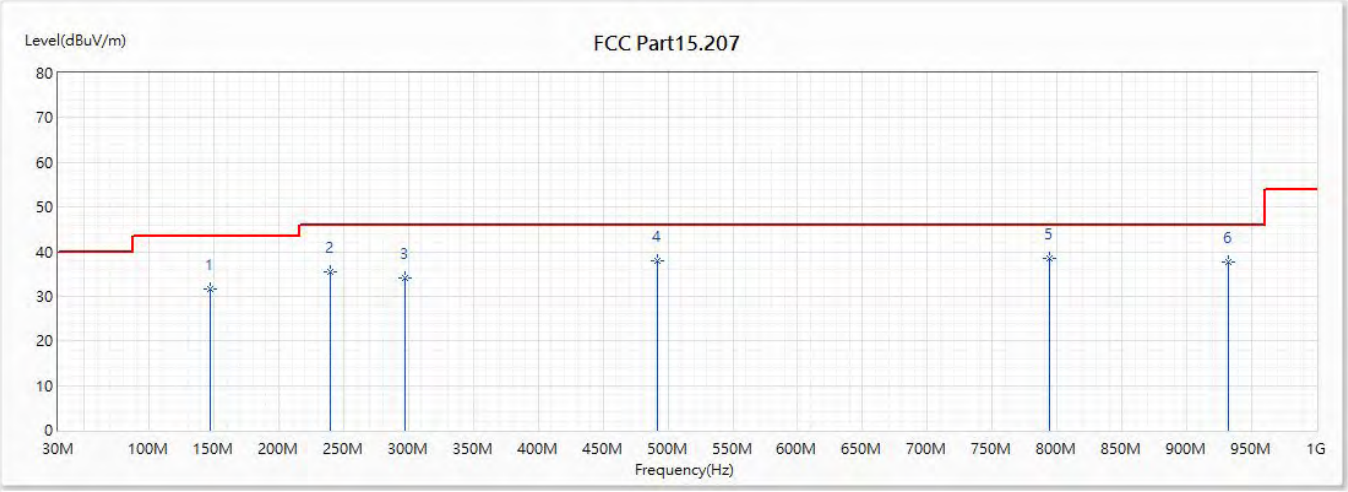


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	73.165	31.60	40.00	-8.40	58.19	-26.59	QUASIPEAK
2	222.788	31.36	46.00	-14.64	53.19	-21.83	QUASIPEAK
3	296.993	33.93	46.00	-12.07	53.23	-19.30	QUASIPEAK
4	479.959	31.89	46.00	-14.11	45.82	-13.93	QUASIPEAK
5	730.219	34.14	46.00	-11.86	45.21	-11.07	QUASIPEAK
6	1000	37.33	54.00	-16.67	45.40	-8.07	QUASIPEAK

Note:

1. All Reading Levels is Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor
4. The Emission under 30MHz were not included is because their levels are too low.

Site :	CB4-H	Engineer :	Carter
Model No :	GT-AC5400	Test Date :	2018/10/1
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 3: TX_AC5400_Tranformer 2_ADP-65DW Y		
Note :	802.11ax(40M)_2437MHz		

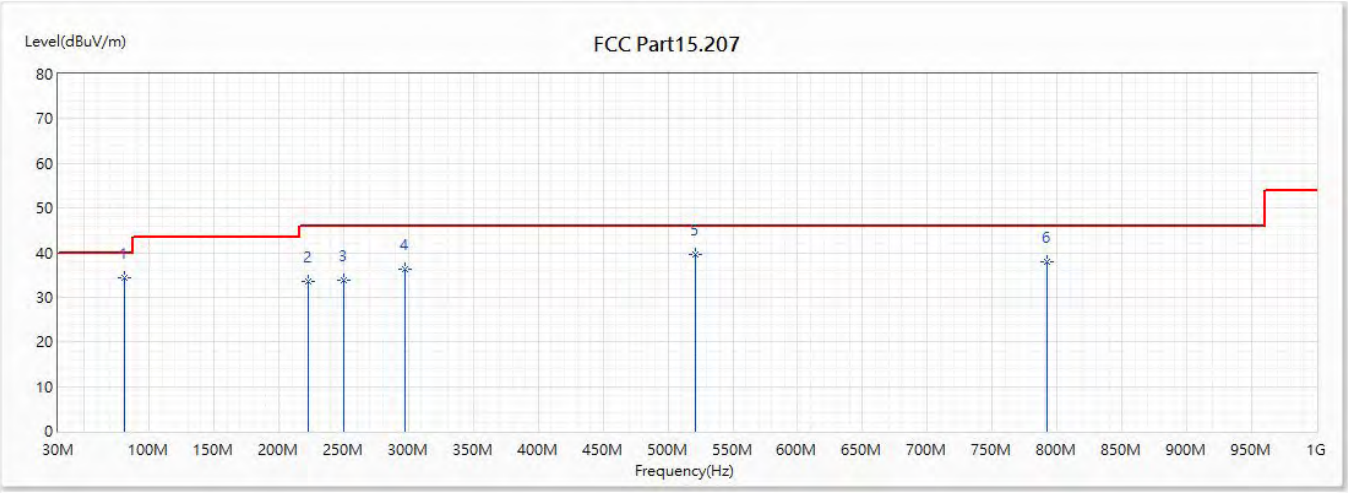


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	147.491	31.48	43.50	-12.02	53.18	-21.70	QUASIPEAK
2	240.005	35.54	46.00	-10.46	56.65	-21.11	QUASIPEAK
3	296.993	34.10	46.00	-11.90	53.40	-19.30	QUASIPEAK
4	492.326	37.84	46.00	-8.16	52.21	-14.37	QUASIPEAK
* 5	793.633	38.49	46.00	-7.51	48.90	-10.41	QUASIPEAK
6	932.464	37.64	46.00	-8.36	46.35	-8.71	QUASIPEAK

Note:

1. All Reading Levels is Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor
4. The Emission under 30MHz were not included is because their levels are too low.

Site :	CB4-H	Engineer :	Carter
Model No :	GT-AC5400	Test Date :	2018/10/1
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode :	Mode 3: TX_AC5400_Tranformer 2_ADP-65DW Y		
Note :	802.11ax(40M)_2437MHz		

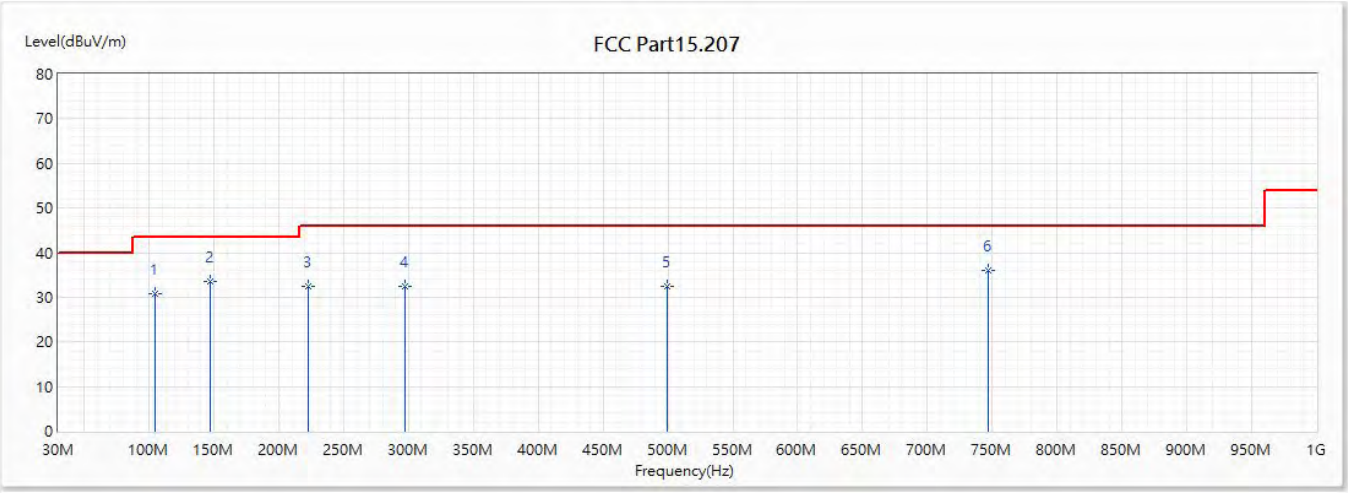


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	81.168	34.50	40.00	-5.50	60.59	-26.09	QUASIPEAK
2	222.788	33.41	46.00	-12.59	55.24	-21.83	QUASIPEAK
3	249.948	33.93	46.00	-12.07	54.78	-20.85	QUASIPEAK
4	296.993	36.22	46.00	-9.78	55.52	-19.30	QUASIPEAK
5	520.82	39.55	46.00	-6.45	53.08	-13.53	QUASIPEAK
6	792.541	37.96	46.00	-8.04	48.33	-10.37	QUASIPEAK

Note:

1. All Reading Levels is Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor
4. The Emission under 30MHz were not included is because their levels are too low.

Site :	CB4-H	Engineer :	Carter
Model No :	GT-AC5400	Test Date :	2018/10/1
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 4: TX_AC5400_Tranformer 2_ADP-65DW B		
Note :	802.11ax(40M)_2437MHz		

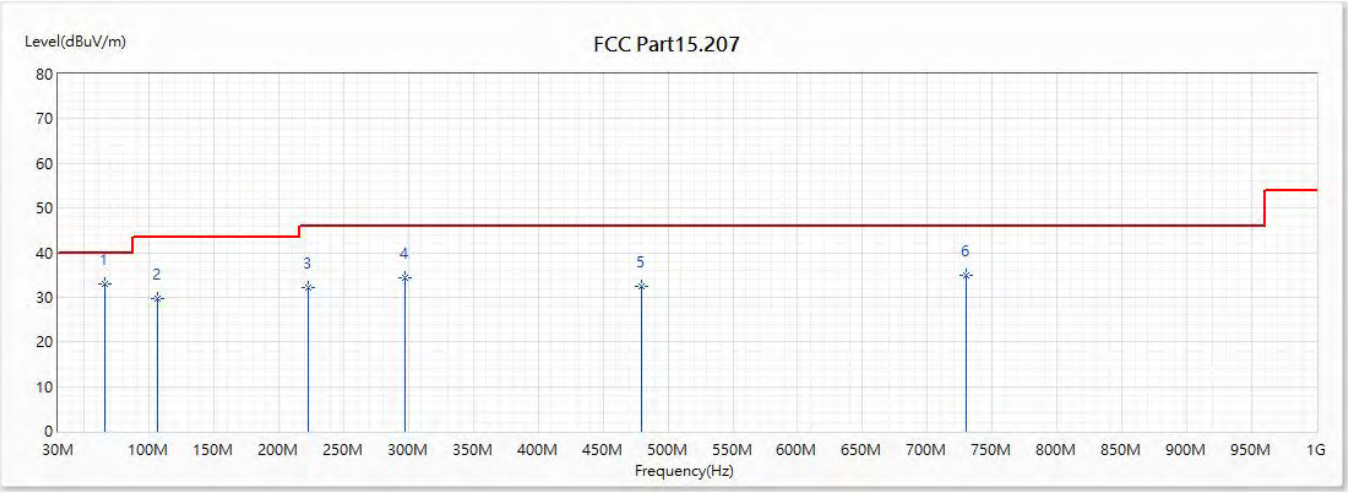


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	104.69	30.88	43.50	-12.62	52.27	-21.39	QUASIPEAK
* 2	147.491	33.60	43.50	-9.90	55.30	-21.70	QUASIPEAK
3	222.788	32.31	46.00	-13.69	54.14	-21.83	QUASIPEAK
4	296.993	32.41	46.00	-13.59	51.71	-19.30	QUASIPEAK
5	499.48	32.55	46.00	-13.45	47.22	-14.67	QUASIPEAK
6	746.709	36.08	46.00	-9.92	47.31	-11.23	QUASIPEAK

Note:

1. All Reading Levels is Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor
4. The Emission under 30MHz were not included is because their levels are too low.

Site :	CB4-H	Engineer :	Carter
Model No :	GT-AC5400	Test Date :	2018/10/1
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode :	Mode 4: TX_AC5400_Tranformer 2_ADP-65DW B		
Note :	802.11ax(40M)_2437MHz		

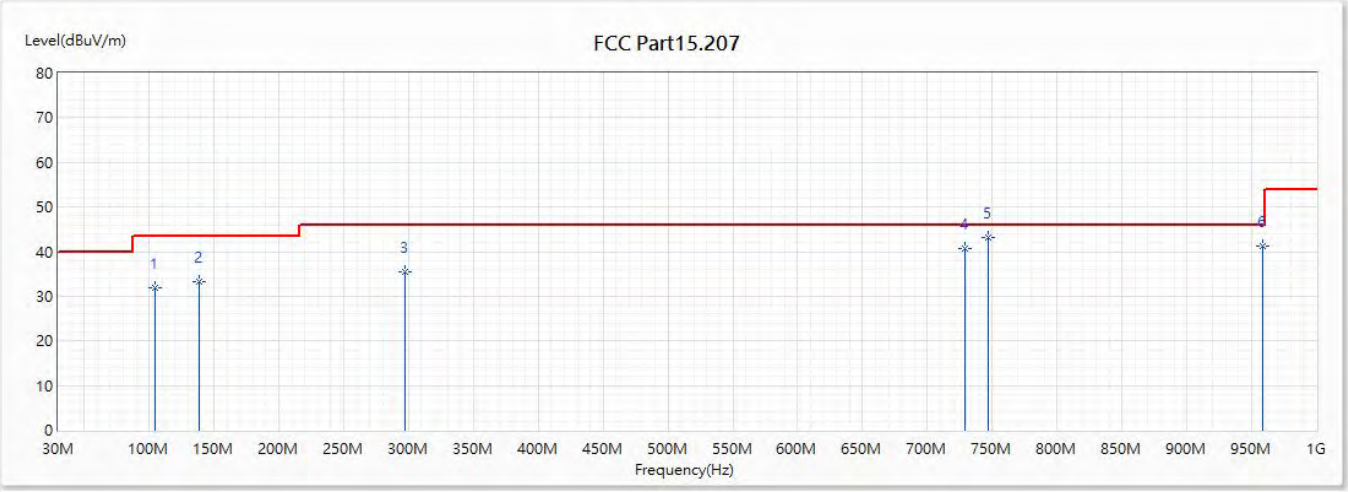


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	65.89	33.07	40.00	-6.93	59.59	-26.52	QUASIPEAK
2	106.751	29.74	43.50	-13.76	51.26	-21.52	QUASIPEAK
3	222.788	32.29	46.00	-13.71	54.12	-21.83	QUASIPEAK
4	296.993	34.39	46.00	-11.61	53.69	-19.30	QUASIPEAK
5	479.959	32.35	46.00	-13.65	46.28	-13.93	QUASIPEAK
6	730.219	34.78	46.00	-11.22	45.85	-11.07	QUASIPEAK

Note:

1. All Reading Levels is Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor
4. The Emission under 30MHz were not included is because their levels are too low.

Site :	CB4-H	Engineer :	Carter
Model No :	GT-AC5400	Test Date :	2018/10/1
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 5: TX_AC5400_Tranformer 2_D2087320		
Note :	802.11ax(40M)_2437MHz		

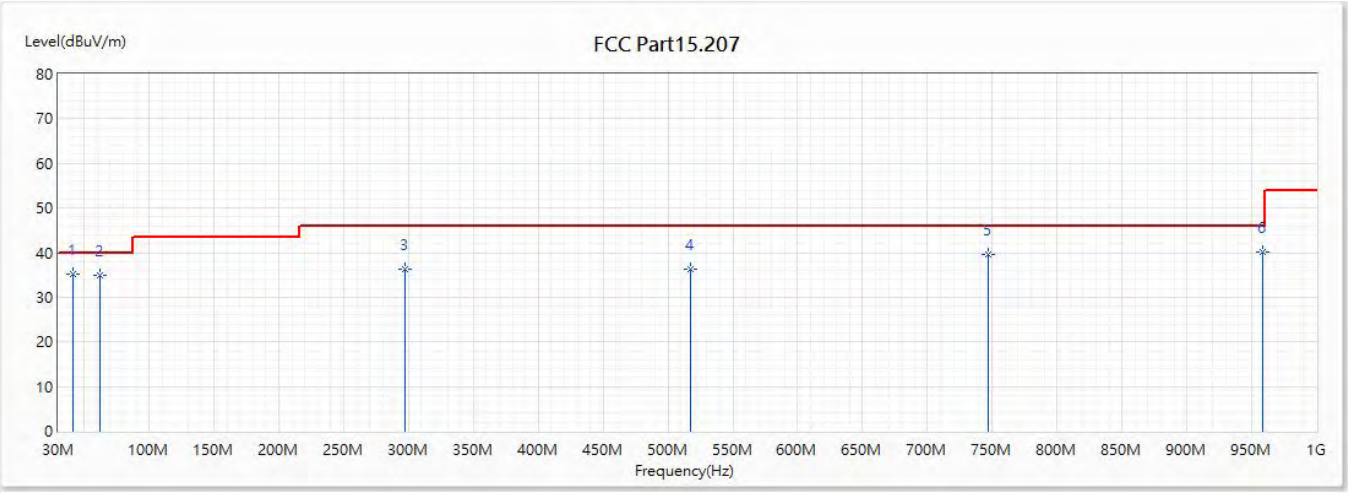


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	104.69	31.88	43.50	-11.62	53.27	-21.39	QUASIPEAK
2	138.398	33.21	43.50	-10.29	54.61	-21.40	QUASIPEAK
3	296.993	35.59	46.00	-10.41	54.89	-19.30	QUASIPEAK
4	729.37	40.76	46.00	-5.24	51.99	-11.23	QUASIPEAK
* 5	746.709	43.27	46.00	-2.73	54.50	-11.23	QUASIPEAK
6	958.411	41.16	46.00	-4.84	49.88	-8.72	QUASIPEAK

Note:

1. All Reading Levels is Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor
4. The Emission under 30MHz were not included is because their levels are too low.

Site :	CB4-H	Engineer :	Carter
Model No :	GT-AC5400	Test Date :	2018/10/1
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode :	Mode 5: TX_AC5400_Tranformer 2_D2087320		
Note :	802.11ax(40M)_2437MHz		

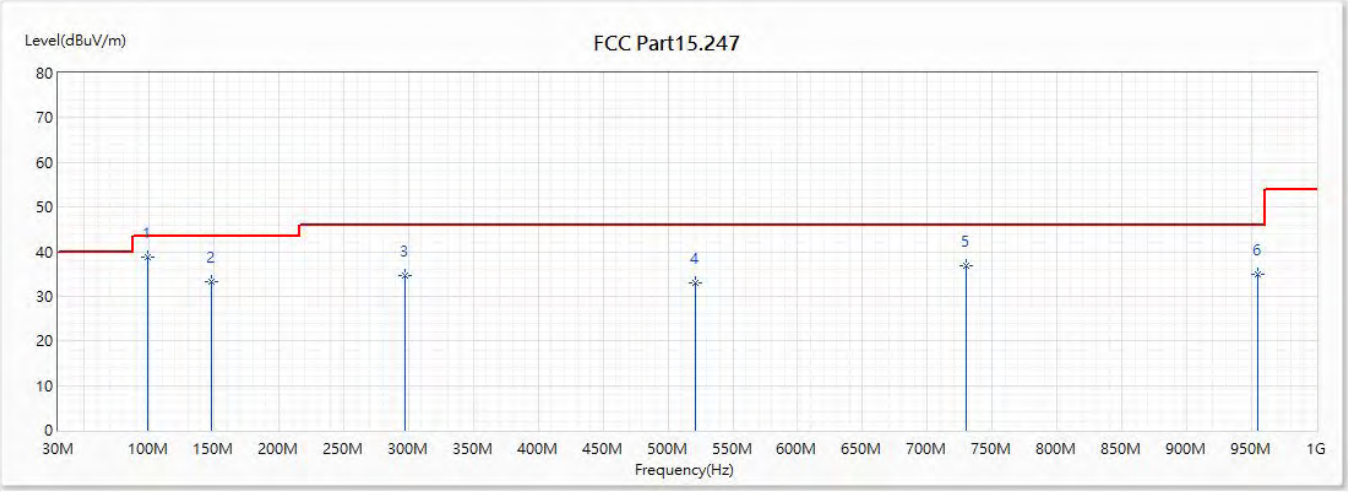


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	40.913	35.32	40.00	-4.68	51.79	-16.47	QUASIPEAK
2	62.01	34.96	40.00	-5.04	61.09	-26.13	QUASIPEAK
3	296.993	36.31	46.00	-9.69	55.61	-19.30	QUASIPEAK
4	517.183	36.29	46.00	-9.71	49.82	-13.53	QUASIPEAK
5	746.588	39.49	46.00	-6.51	50.73	-11.24	QUASIPEAK
6	958.411	40.04	46.00	-5.96	48.76	-8.72	QUASIPEAK

Note:

1. All Reading Levels is Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor
4. The Emission under 30MHz were not included is because their levels are too low.

Site :	CB4-H	Engineer :	Carter
Model No :	GT-AX6000	Test Date :	2018/10/5
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 6: TX_AX6000_add fan _Transformer 1_ADP-65DW Y		
Note :	802.11ax(40M)_2437MHz		

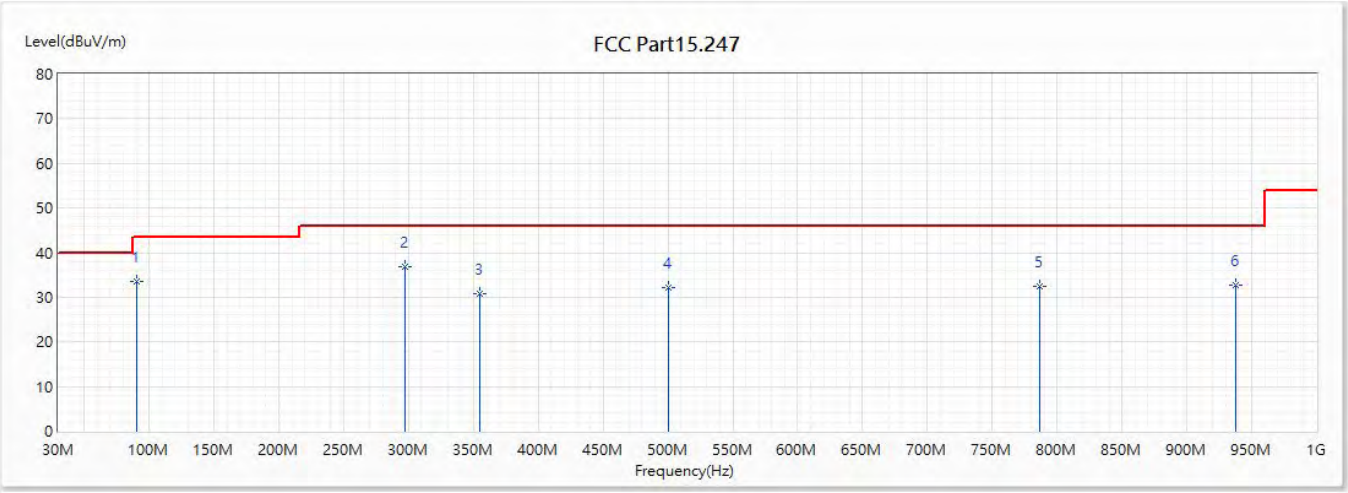


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	99.234	38.63	43.50	-4.87	60.68	-22.05	QUASIPEAK
2	148.461	33.37	43.50	-10.13	55.23	-21.86	QUASIPEAK
3	296.993	34.56	46.00	-11.44	53.86	-19.30	QUASIPEAK
4	521.184	32.92	46.00	-13.08	46.54	-13.62	QUASIPEAK
5	729.855	36.93	46.00	-9.07	48.06	-11.13	QUASIPEAK
6	954.895	35.04	46.00	-10.96	43.80	-8.76	QUASIPEAK

Note:

1. All Reading Levels is Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor
4. The Emission under 30MHz were not included is because their levels are too low.

Site :	CB4-H	Engineer :	Carter
Model No :	GT-AX6000	Test Date :	2018/10/5
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode :	Mode 6: TX_AX6000_add fan _Transformer 1_ADP-65DW Y		
Note :	802.11ax(40M)_2437MHz		

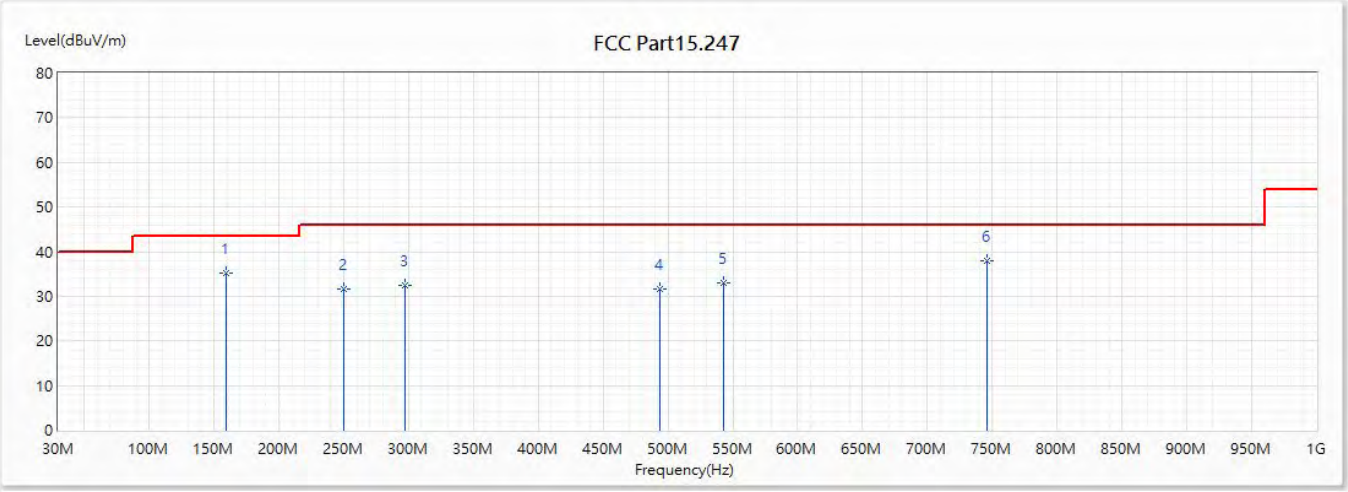


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	90.261	33.45	43.50	-10.05	58.34	-24.89	QUASIPEAK
* 2	296.993	36.80	46.00	-9.20	56.10	-19.30	QUASIPEAK
3	354.829	30.84	46.00	-15.16	47.79	-16.95	QUASIPEAK
4	499.965	32.23	46.00	-13.77	46.88	-14.65	QUASIPEAK
5	786.479	32.48	46.00	-13.52	43.34	-10.86	QUASIPEAK
6	937.92	32.83	46.00	-13.17	41.74	-8.91	QUASIPEAK

Note:

1. All Reading Levels is Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor
4. The Emission under 30MHz were not included is because their levels are too low.

Site :	CB4-H	Engineer :	Carter
Model No :	GT-AX6000	Test Date :	2018/10/5
Test Voltage :	AC 110V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 7: TX_AX6000_add fan _Transformer 1_ADP-65DW B		
Note :	802.11ax(40M)_2437MHz		

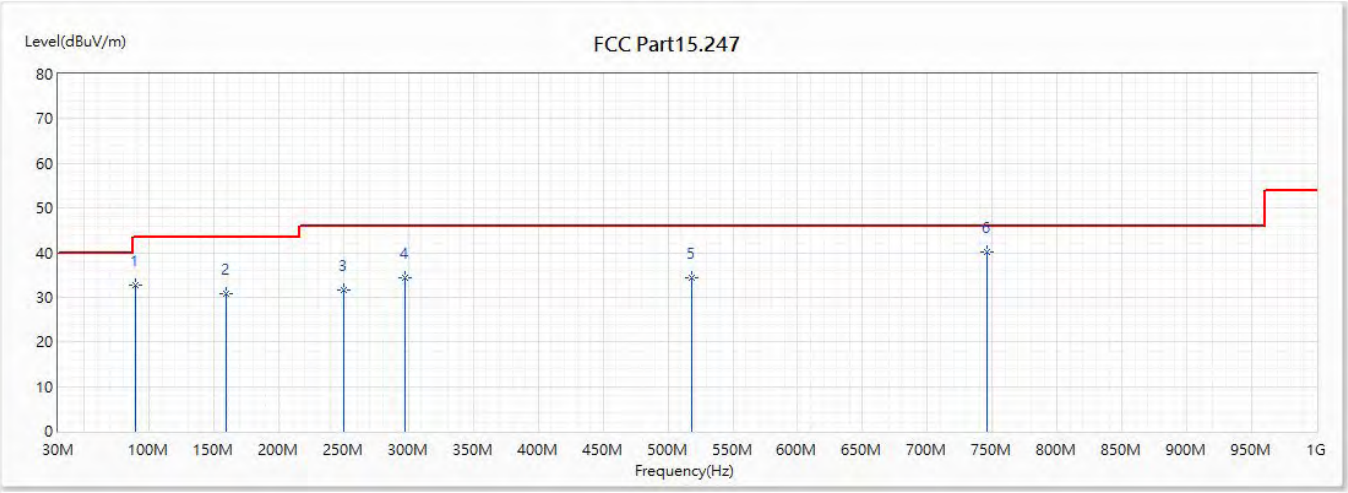


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	159.616	35.29	43.50	-8.21	57.73	-22.44	QUASIPEAK
2	249.948	31.51	46.00	-14.49	52.36	-20.85	QUASIPEAK
3	296.993	32.40	46.00	-13.60	51.70	-19.30	QUASIPEAK
4	493.539	31.67	46.00	-14.33	46.22	-14.55	QUASIPEAK
5	542.645	32.91	46.00	-13.09	45.72	-12.81	QUASIPEAK
* 6	745.981	38.03	46.00	-7.97	49.29	-11.26	QUASIPEAK

Note:

1. All Reading Levels is Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor
4. The Emission under 30MHz were not included is because their levels are too low.

Site :	CB4-H	Engineer :	Carter
Model No :	GT-AX6000	Test Date :	2018/10/5
Test Voltage :	AC 110V/60Hz	Polarity :	Vertical
Test Mode :	Mode 7: TX_AX6000_add fan _Transformer 1_ADP-65DW B		
Note :	802.11ax(40M)_2437MHz		

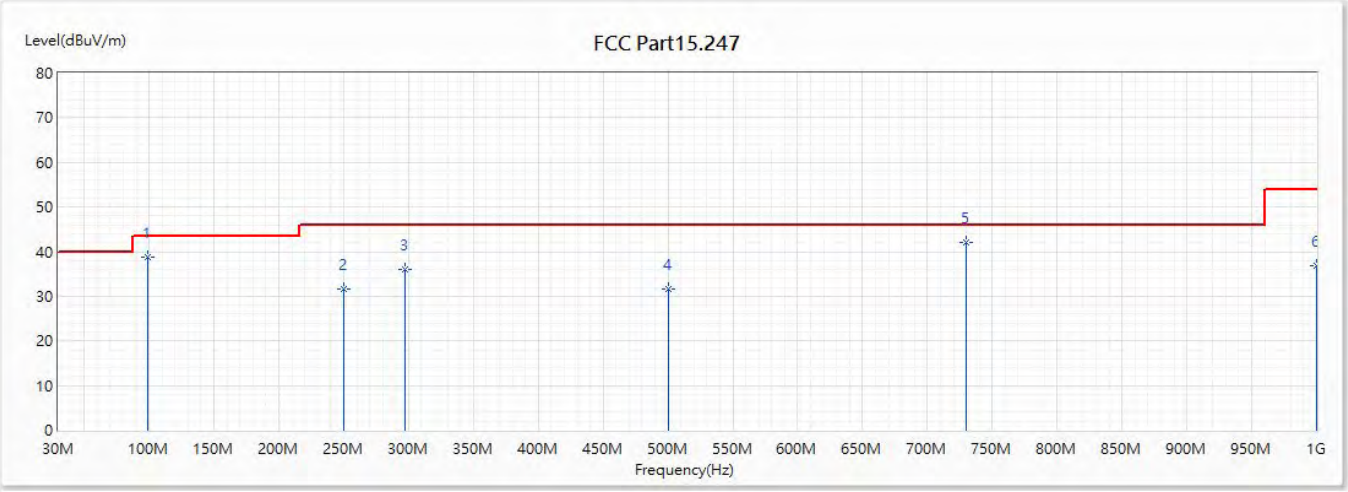


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	89.049	32.79	43.50	-10.71	57.85	-25.06	QUASIPEAK
2	159.616	30.88	43.50	-12.62	53.32	-22.44	QUASIPEAK
3	249.948	31.55	46.00	-14.45	52.40	-20.85	QUASIPEAK
4	296.993	34.39	46.00	-11.61	53.69	-19.30	QUASIPEAK
5	518.031	34.27	46.00	-11.73	47.73	-13.46	QUASIPEAK
* 6	745.981	40.26	46.00	-5.74	51.52	-11.26	QUASIPEAK

Note:

1. All Reading Levels is Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor
4. The Emission under 30MHz were not included is because their levels are too low.

Site :	CB4-H	Engineer :	Carter
Model No :	GT-AX6000	Test Date :	2018/10/5
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 8: TX_AX6000_add fan _Transformer 1_AD2087320		
Note :	802.11ax(40M)_2437MHz		

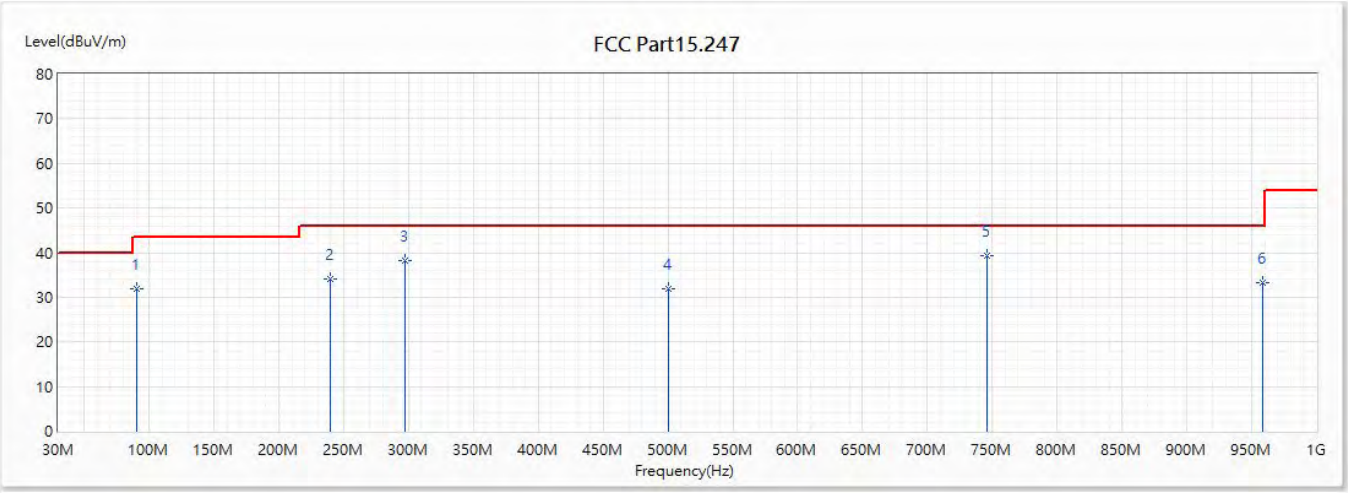


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	99.234	38.81	43.50	-4.69	60.86	-22.05	QUASIPEAK
2	249.948	31.64	46.00	-14.36	52.49	-20.85	QUASIPEAK
3	296.993	35.98	46.00	-10.02	55.28	-19.30	QUASIPEAK
4	499.965	31.73	46.00	-14.27	46.38	-14.65	QUASIPEAK
* 5	729.976	41.96	46.00	-4.04	53.07	-11.11	QUASIPEAK
6	1000	36.72	54.00	-17.28	44.79	-8.07	QUASIPEAK

Note:

1. All Reading Levels is Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor
4. The Emission under 30MHz were not included is because their levels are too low.

Site :	CB4-H	Engineer :	Carter
Model No :	GT-AX6000	Test Date :	2018/10/5
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode :	Mode 8: TX_AX6000_add fan _Transformer 1_AD2087320		
Note :	802.11ax(40M)_2437MHz		

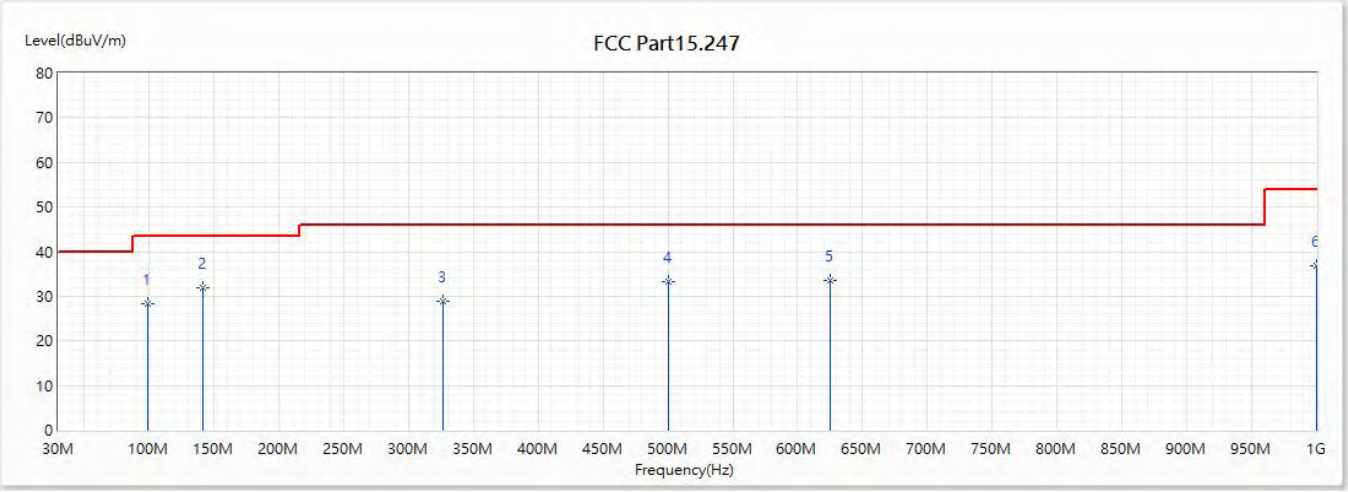


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	90.261	32.01	43.50	-11.49	56.90	-24.89	QUASIPEAK
2	240.005	34.07	46.00	-11.93	55.18	-21.11	QUASIPEAK
3	296.993	38.25	46.00	-7.75	57.55	-19.30	QUASIPEAK
4	499.965	31.76	46.00	-14.24	46.41	-14.65	QUASIPEAK
* 5	746.224	39.27	46.00	-6.73	50.52	-11.25	QUASIPEAK
6	958.533	33.13	46.00	-12.87	41.85	-8.72	QUASIPEAK

Note:

1. All Reading Levels is Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor
4. The Emission under 30MHz were not included is because their levels are too low.

Site :	CB4-H	Engineer :	Carter
Model No :	GT-AX6000	Test Date :	2018/10/4
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 9: TX_AX6000_add fan _Transformer 2_ADP-65DW Y		
Note :	802.11ax(40M)_2437MHz		

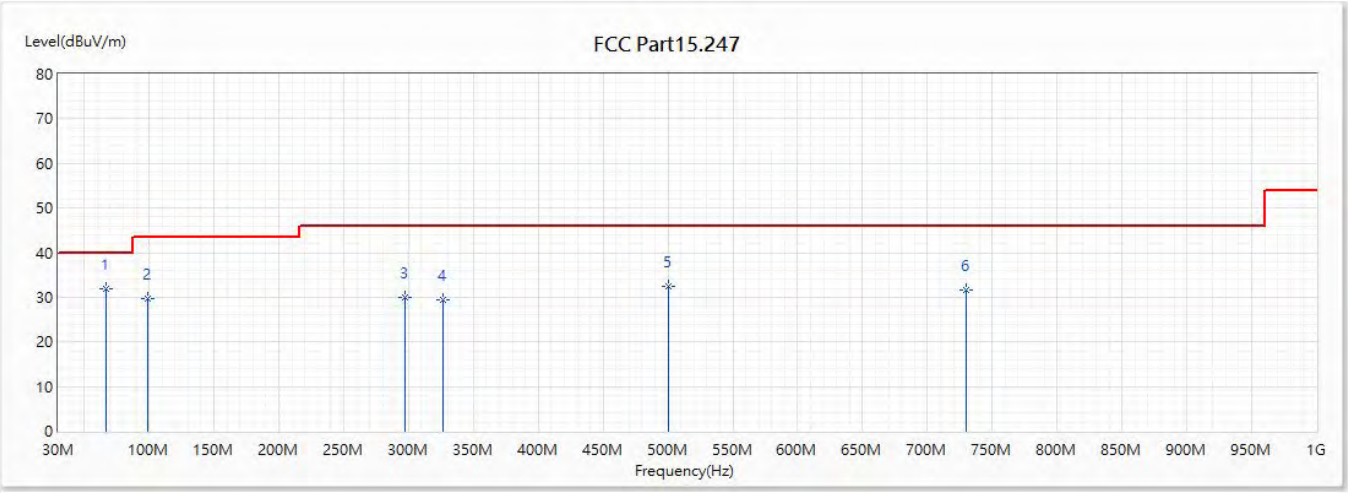


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	99.234	28.37	43.50	-15.13	50.42	-22.05	QUASIPEAK
* 2	141.186	32.02	43.50	-11.48	53.31	-21.29	QUASIPEAK
3	326.456	28.79	46.00	-17.21	47.24	-18.45	QUASIPEAK
4	499.965	33.13	46.00	-12.87	47.78	-14.65	QUASIPEAK
5	625.095	33.61	46.00	-12.39	46.97	-13.36	QUASIPEAK
6	1000	36.95	54.00	-17.05	45.02	-8.07	QUASIPEAK

Note:

1. All Reading Levels is Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor
4. The Emission under 30MHz were not included is because their levels are too low.

Site :	CB4-H	Engineer :	Carter
Model No :	GT-AX6000	Test Date :	2018/10/4
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode :	Mode 9: TX_AX6000_add fan _Transformer 2_ADP-65DW Y		
Note :	802.11ax(40M)_2437MHz		

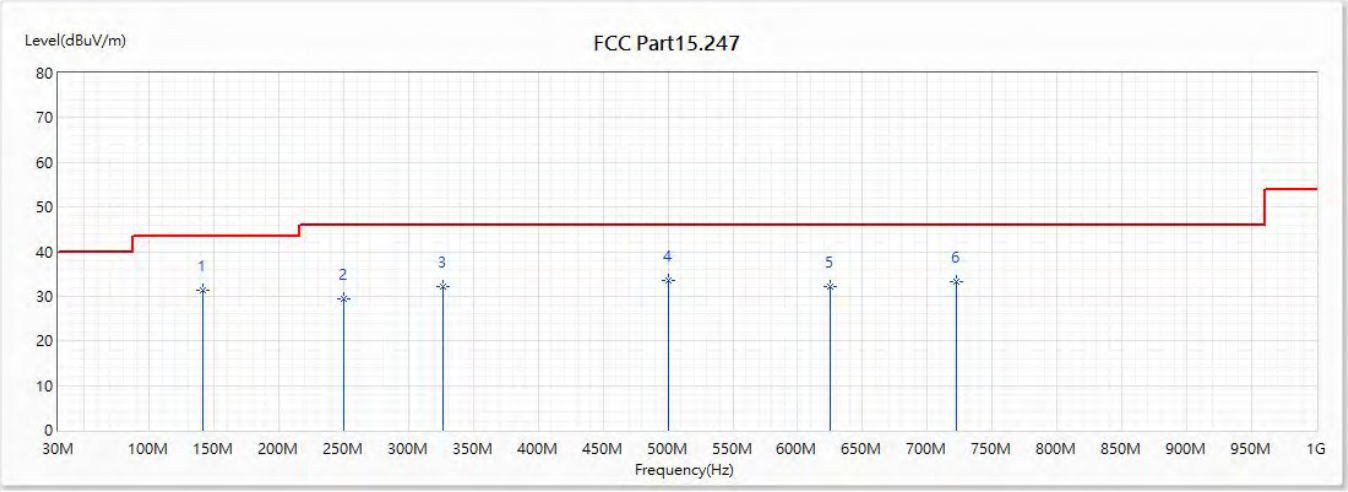


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	66.618	31.80	40.00	-8.20	58.38	-26.58	QUASIPEAK
2	99.234	29.64	43.50	-13.86	51.69	-22.05	QUASIPEAK
3	296.993	30.06	46.00	-15.94	49.36	-19.30	QUASIPEAK
4	326.456	29.53	46.00	-16.47	47.98	-18.45	QUASIPEAK
5	499.965	32.31	46.00	-13.69	46.96	-14.65	QUASIPEAK
6	729.976	31.48	46.00	-14.52	42.59	-11.11	QUASIPEAK

Note:

1. All Reading Levels is Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor
4. The Emission under 30MHz were not included is because their levels are too low.

Site :	CB4-H	Engineer :	Carter
Model No :	GT-AX6000	Test Date :	2018/10/4
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 10: TX_AX6000_add fan _Transformer 2_ADP-65DW B		
Note :	802.11ax(40M)_2437MHz		

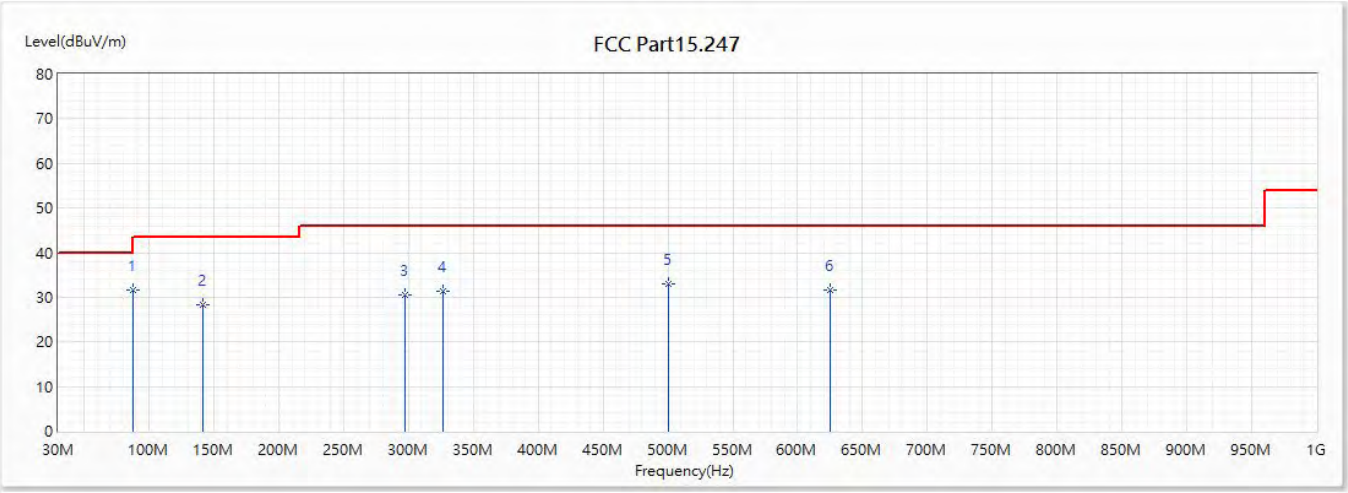


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	141.793	31.31	43.50	-12.19	52.66	-21.35	QUASIPEAK
2	249.948	29.43	46.00	-16.57	50.28	-20.85	QUASIPEAK
3	326.456	32.10	46.00	-13.90	50.55	-18.45	QUASIPEAK
4	499.965	33.55	46.00	-12.45	48.20	-14.65	QUASIPEAK
5	625.095	32.11	46.00	-13.89	45.47	-13.36	QUASIPEAK
6	721.974	33.26	46.00	-12.74	45.18	-11.92	QUASIPEAK

Note:

1. All Reading Levels is Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor
4. The Emission under 30MHz were not included is because their levels are too low.

Site :	CB4-H	Engineer :	Carter
Model No :	GT-AX6000	Test Date :	2018/10/4
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode :	Mode 10: TX_AX6000_add fan _Transformer 2_ADP-65DW B		
Note :	802.11ax(40M)_2437MHz		

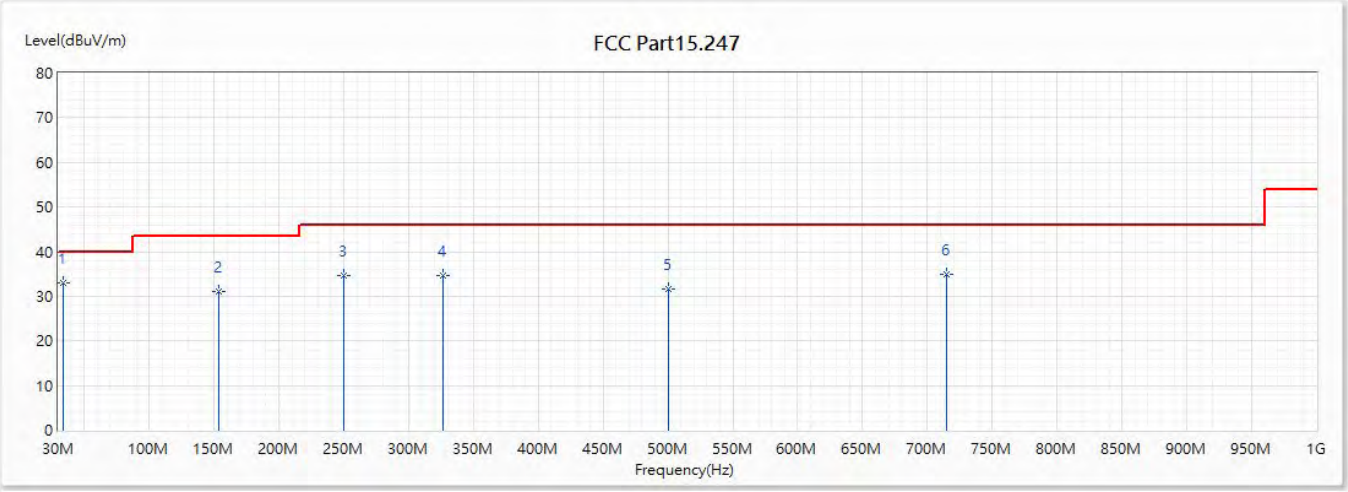


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	87.473	31.75	40.00	-8.25	57.03	-25.28	QUASIPEAK
2	141.793	28.18	43.50	-15.32	49.53	-21.35	QUASIPEAK
3	296.993	30.48	46.00	-15.52	49.78	-19.30	QUASIPEAK
4	326.456	31.28	46.00	-14.72	49.73	-18.45	QUASIPEAK
5	499.965	33.03	46.00	-12.97	47.68	-14.65	QUASIPEAK
6	625.095	31.66	46.00	-14.34	45.02	-13.36	QUASIPEAK

Note:

1. All Reading Levels is Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor
4. The Emission under 30MHz were not included is because their levels are too low.

Site :	CB4-H	Engineer :	Carter
Model No :	GT-AX6000	Test Date :	2018/10/4
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 11: TX_AX6000_add fan _Transformer 2_AD2087320		
Note :	802.11ax(40M)_2437MHz		

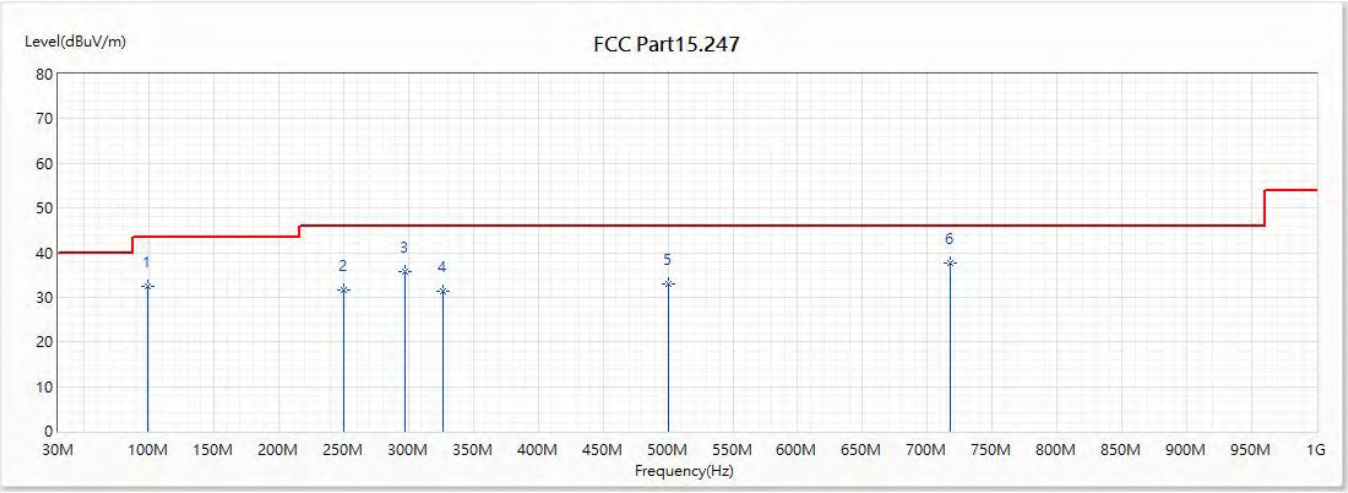


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	34.123	32.88	40.00	-7.12	48.68	-15.80	QUASIPEAK
2	154.16	31.03	43.50	-12.47	53.49	-22.46	QUASIPEAK
3	249.948	34.61	46.00	-11.39	55.46	-20.85	QUASIPEAK
4	326.456	34.53	46.00	-11.47	52.98	-18.45	QUASIPEAK
5	499.965	31.58	46.00	-14.42	46.23	-14.65	QUASIPEAK
6	714.335	34.78	46.00	-11.22	47.17	-12.39	QUASIPEAK

Note:

1. All Reading Levels is Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor
4. The Emission under 30MHz were not included is because their levels are too low.

Site :	CB4-H	Engineer :	Carter
Model No :	GT-AX6000	Test Date :	2018/10/4
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode :	Mode 11: TX_AX6000_add fan _Transformer 2_AD2087320		
Note :	802.11ax(40M)_2437MHz		



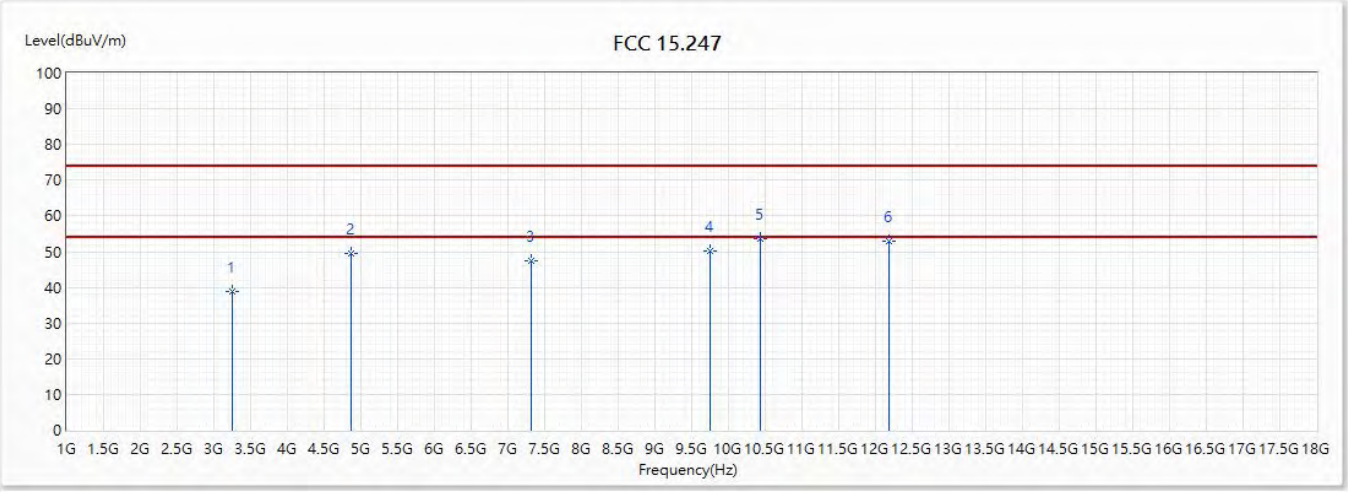
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	99.234	32.50	43.50	-11.00	54.55	-22.05	QUASIPEAK
2	249.948	31.61	46.00	-14.39	52.46	-20.85	QUASIPEAK
3	296.993	35.82	46.00	-10.18	55.12	-19.30	QUASIPEAK
4	326.456	31.22	46.00	-14.78	49.67	-18.45	QUASIPEAK
5	499.965	32.89	46.00	-13.11	47.54	-14.65	QUASIPEAK
* 6	717.488	37.67	46.00	-8.33	49.87	-12.20	QUASIPEAK

Note:

1. All Reading Levels is Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor
4. The Emission under 30MHz were not included is because their levels are too low.

Above 1GHz Spurious

Site :	CB2-H	Engineer :	Rueyyan
Model No :	GT-AX6000	Test Date :	2018/10/4
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 6: TX_AX6000_add fan _Transformer 1_ADP-65DW Y		
Note :	802.11b_2437MHz		

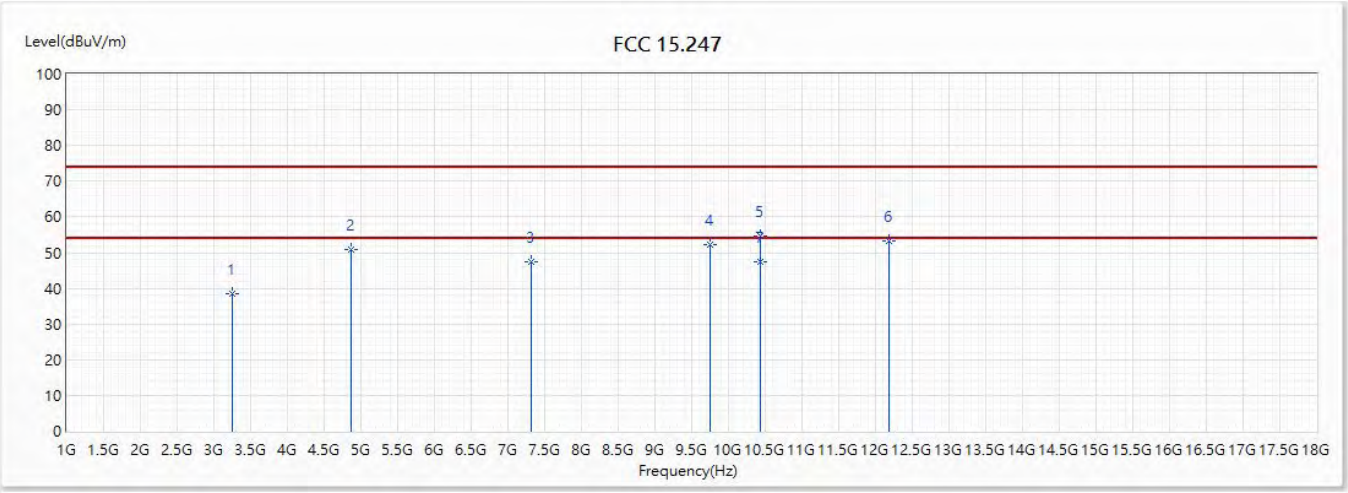


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3249	38.72	74.00	-35.28	45.39	-6.67	PK
2	4874	49.43	74.00	-24.57	49.90	-0.47	PK
3	7311	47.58	74.00	-26.42	40.16	7.42	PK
4	9748	50.25	74.00	-23.75	37.41	12.84	PK
* 5	10440	53.45	74.00	-20.55	38.76	14.69	PK
6	12185	52.92	74.00	-21.08	37.09	15.83	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. 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 18GHz were not included is because their levels are too low.

Site :	CB2-H	Engineer :	Rueyyan
Model No :	GT-AX6000	Test Date :	2018/10/4
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode :	Mode 6: TX_AX6000_add fan _Transformer 1_ADP-65DW Y		
Note :	802.11b_2437MHz		

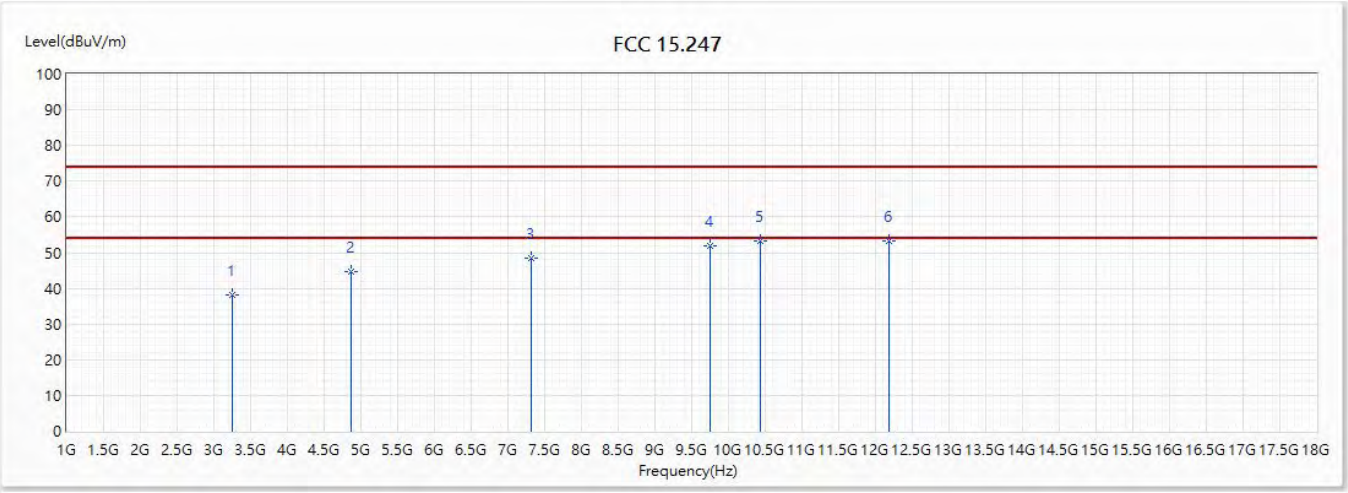


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3249	38.35	74.00	-35.65	45.02	-6.67	PK
2	4874	50.88	74.00	-23.12	51.35	-0.47	PK
3	7311	47.55	74.00	-26.45	40.13	7.42	PK
4	9748	52.34	74.00	-21.66	39.50	12.84	PK
5	10440	54.56	74.00	-19.44	39.87	14.69	PK
6	12185	53.11	74.00	-20.89	37.28	15.83	PK
* 7	10440	47.40	54.00	-6.60	32.71	14.69	AV

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. 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 18GHz were not included is because their levels are too low.

Site :	CB2-H	Engineer :	Rueyyan
Model No :	GT-AX6000	Test Date :	2018/10/4
Test Voltage :	AC 120V/60Hz	Polarity :	Horizontal
Test Mode :	Mode 6: TX_AX6000_add fan _Transformer 1_ADP-65DW Y		
Note :	802.11ax(40M)_2437MHz		

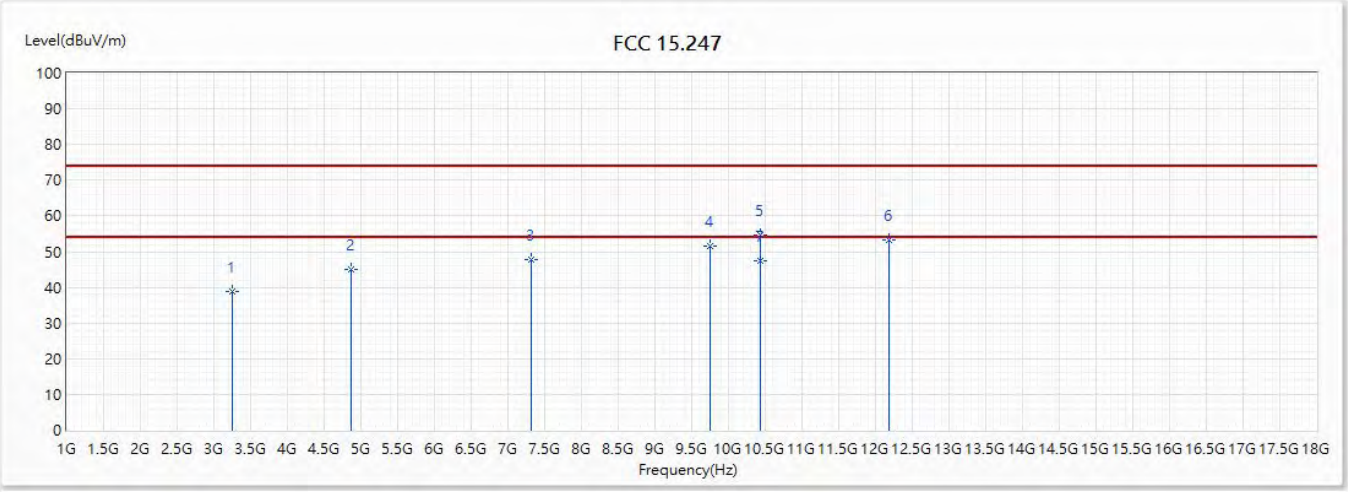


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3249	38.31	74.00	-35.69	44.98	-6.67	PK
2	4874	44.62	74.00	-29.38	45.09	-0.47	PK
3	7311	48.53	74.00	-25.47	41.11	7.42	PK
4	9748	51.82	74.00	-22.18	38.98	12.84	PK
5	10440	53.27	74.00	-20.73	38.58	14.69	PK
* 6	12185	53.28	74.00	-20.72	37.45	15.83	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. 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 18GHz were not included is because their levels are too low.

Site :	CB2-H	Engineer :	Rueyyan
Model No :	GT-AX6000	Test Date :	2018/10/4
Test Voltage :	AC 120V/60Hz	Polarity :	Vertical
Test Mode :	Mode 6: TX_AX6000_add fan _Transformer 1_ADP-65DW Y		
Note :	802.11ax(40M)_2437MHz		



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	3249	38.83	74.00	-35.17	45.50	-6.67	PK
2	4874	45.04	74.00	-28.96	45.51	-0.47	PK
3	7311	47.66	74.00	-26.34	40.24	7.42	PK
4	9748	51.38	74.00	-22.62	38.54	12.84	PK
5	10440	54.49	74.00	-19.51	39.80	14.69	PK
6	12185	53.19	74.00	-20.81	37.36	15.83	PK
* 7	10440	47.38	54.00	-6.62	32.69	14.69	AV

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. 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 18GHz were not included is because their levels are too low.