



Test report No.: 2331009R-RFUSV17S-A

RF Exposure Report

Product Name	Wireless-AXE11000 Tri-band Gigabit Router, ROG Rapture Tri-band Gaming Router, ROG Rapture GT-AXE11000 tri-band Gaming Router, WiFi 6E ROG Rapture GT-AXE11000 Tri-band Gaming Router	
Trademark	ASUS	
Model and /or type reference	GT-AXE11000	
FCC ID	MSQ-RTAXJF00	
Applicant's name / address	ASUSTeK Computer, Inc 1F, No. 15, Lide Rd, Beitou, Taipei, 112 Taiwan	
Manufacturer's name	 ASUSTeK Computer, Inc Kentec Inc. Lukisen Electronic Corp. Lih Rong Electronic Enterprise Co.,Ltd 	
Test method requested, standard	KDB 447498 D01 v06	
Verdict Summary	IN COMPLIANCE	
Documented By (Senior Project Specialist / Genie Chang)	Grente Chang	
Tested By (Senior Engineer / Jack Hsu)	Grente Chang Jack Hsu Tim Sung	
Approved By (Manager / Tim Sung)	Tim Sung	
Date of Receipt	2023/03/29	
Date of Issue	2023/04/12	
Report Version	V1.0	



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DEKRA is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

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- 5. Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

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Revision History

Report No.	Version	Description	Issued Date
2331009R-RFUSV17S-A	V1.0	Initial issue of report.	2023/04/12

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1. General Information

1.1. EUT Description

Product Name	Wireless-AXE11000 Tri-band Gigabit Router,	
	ROG Rapture Tri-band Gaming Router,	
	ROG Rapture GT-AXE11000 tri-band Gaming Router,	
	WiFi 6E ROG Rapture GT-AXE11000 Tri-band Gaming Router	
Trademark	ASUS	
Model and /or type reference	GT-AXE11000	
FCC ID	MSQ-RTAXJF00	

Note: For more detailed information please refer to report No.: 2331009R-RFUSV03S-A and FA070920-01.



2. Test Facility

USA	FCC Registration Number: TW0033
Canada	CAB Identifier Number: TW3023 / Company Number: 26930

Site Description	Accredited by TAF	
	Accredited Number: 3023	

Test Laboratory	DEKRA Testing and Certification Co., Ltd.	
	Linkou Laboratory	
Address	No.5-22, Ruishukeng Linkou District, New Taipei City, 24451, Taiwan, R.O.C	
Performed Location	No. 26, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan, R.O.C.	
Phone Number	+886-3-275-7255	
Fax Number	+886-3-327-8031	



3. RF Exposure Evaluation

3.1. Standard Applicable

According to KDB 447498 D01 (7.1), A minimum test separation distance \geq 20 cm is required between the antenna and radiating structures of the device and nearby persons to apply mobile device exposure limits.

3.2. Limits

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency Range	Electric Field	Magnetic Field	Power Density	Average Time
(MHz)	Strength (V/m)	Strength (A/m)	(mW/cm^2)	(Minutes)
	(A) Limits fo	r Occupational/ Contr	rol Exposures	
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f2)	6
30-300	61.4	0.163	1.0	6
300-1,500			f/300	6
1,500-100,000			5	6
(B) Limits for General Population/ Uncontrolled Exposures				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f2)	30
30-300	27.5	0.073	0.2	30
300-1,500			f/1500	30
1,500-100,000			1.0	30

F= Frequency in MHz

Friis Formula

Friis transmission formula: $Pd = (Pout*G)/(4*pi*r^2)$

Where

 $Pd = power density in mW/cm^2$

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

Simultaneous transmission MPE test exclusion applies when the sum of the MPE ratios for all simultaneously transmitting antennas incorporated in a host device is ≤ 1.0



3.3. Test Result of RF Exposure Evaluation

Product	Wireless-AXE11000 Tri-band Gigabit Router,
	ROG Rapture Tri-band Gaming Router,
	ROG Rapture GT-AXE11000 tri-band Gaming Router,
	WiFi 6E ROG Rapture GT-AXE11000 Tri-band Gaming Router
Test Item	RF Exposure Evaluation

Band	Tune-up E.I.R.P (dBm)	Tune-up E.I.R.P (mW)	Power Density at R = 27 cm (mW/cm2)	Limit (mW/cm2)
2.4 GHz	35.99	3971.92	0.43356	1
5 GHz	35.99	3971.92	0.43356	1
6 GHz	25.34	341.979	0.03730	1

Note: The conducted output power is refer to report No.: 2331009R-RFUSV03S-A and FA070920-01 from the DEKRA and SPORTON.

Calculations for Multi-Transmitter

Mode	Ratios	result	Limit
2.4 GHz	0.43356		
5 GHz	0.43356	0.90442	1
6 GHz	0.03730		

Ratios = Power Density / Power Density Limit

Peculte	DACC	
IXCSUITS	IASS	