

# **RF EXPOSURE REPORT**

# **CERTIFICATE OF CONFORMITY**

FCC Rule Part:	FCC Part 2 (Section 2.1091 & 2.1093)
Report No.:	MFBDYV-WTW-P22090260
FCC ID:	PRDMU117
Model No.:	AMR200
Series Model:	AMR201, G77
Received Date:	2022/9/6
Test Date:	2022/9/15 ~ 2022/9/27
Issued Date:	2022/12/10
Applicant:	Acrox Technologies Co., Ltd
Address:	4F., No. 89, Minshan St., Neihu Dist., Taipei City 114, Taiwan, R.O.C.
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Lin Kou Laboratories
Lab Address:	No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan
Test Location:	No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan
FCC Registration /	198487 / TW2021
Designation Number:	

2022/12/10 Approved by: Date:

Jeremy Lin / Project Engineer

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Prepared by : Annie Chang / Senior Specialist

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# **Release Control Record**

Issue No.	Description	Date Issued	
MFBDYV-WTW-P22090260	Original release.	2022/12/10	



### 1 Certificate

Product:	Wireless Mouse
Brand:	acer, ACROX
Test Model:	AMR200
Series Model:	AMR201, G77
Sample Status:	Engineering sample
Applicant:	Acrox Technologies Co., Ltd
Test Date:	2022/9/15 ~ 2022/9/27
FCC Rule Part:	FCC Part 2 (Section 2.1091 & 2.1093)
Standard:	KDB 447498 D04 Interim General RF Exposure Guidance v01

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.



# 2 Applicable RF Exposure Limit

§ 1.1310 Radiofrequency radiation exposure limits.

(a) Specific absorption rate (SAR) shall be used to evaluate the environmental impact of human exposure to radiofrequency (RF) radiation as specified in § 1.1307(b) of this part within the frequency range of 100 kHz to 6 GHz (inclusive).

(b) The SAR limits for occupational/controlled exposure are 0.4 W/kg, as averaged over the whole body, and a peak spatialaverage SAR of 8 W/kg, averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the parts of the human body treated as extremities, such as hands, wrists, feet, ankles, and pinnae, where the peak spatial-average SAR limit for occupational/controlled exposure is 20 W/kg, averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). Exposure may be averaged over a time period not to exceed 6 minutes to determine compliance with occupational/controlled SAR limits.

(c) The SAR limits for general population/uncontrolled exposure are 0.08 W/kg, as averaged over the whole body, and a peak spatial-average SAR of 1.6 W/kg, averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the parts of the human body treated as extremities, such as hands, wrists, feet, ankles, and pinnae, where the peak spatial-average SAR limit is 4 W/kg, averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). Exposure may be averaged over a time period not to exceed 30 minutes to determine compliance with general population/uncontrolled SAR limits.

(e) Maximum Permissible Exposure (MPE) to radiofrequency electromagnetic fields

#### Limits for General Population/Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	5 5		
Limits For General Population / Uncontrolled Exposure					
0.3-1.34	614	1.63	(100)*	30	
1.34-30	824/f	2.19/f	(180/f <sup>2</sup> )*	30	
30-300	27.5	0.073	0.2	30	
300-1500			f/1500	30	
1500-100,000			1.0	30	

f = frequency in MHz. \* = Plane-wave equivalent power density.

#### Limits for Occupational/Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm <sup>2</sup> )	Average Time (minutes)	
Limits For General Population / Uncontrolled Exposure					
0.3-3.0	614	1.63	*(100)	⊴6	
3.0-30	1842/f	4.89/f	*(900/f <sup>2</sup> )	<6	
30-300	61.4	0.163	1.0	<6	
300-1,500			f/300	<6	
1,500-100,000			5	<6	

f = frequency in MHz. \* = Plane-wave equivalent power density.



## 3 Applicable Evaluation Criteria

#### Exemption Evaluation

#### 1 mW Blanket Exemption - §1.1307(b)(3)(i)(A)

The available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A).



### 4 Test Results

#### 4.1 RF Exposure

Environmental Conditions:25°C, 76% RHTested By:Dalen Dai
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1 mW Blanket Exemption						
Operation Mode	Frequency Band (MHz)	Average Power (mW)	Antenna Gain (dBi)	Maximum ERP (mW)	Limit (mW)	Test Result
GFSK	2402-2480	0.000003199	3.22	0.000004093	1	Pass

Note:

Calculate the ERP of GFSK from the radiated field strength:

ERP (dBm) = Radiated field strength (dBuV/m) + 20 \* Log(d) - 104.77 - 2.15

d is the measurement distance, in 3 m.

ERP = 43.5 + 20\*Log(3) - 104.77 - 2.15 = -53.88 dBm (0.000004093 mW)

Average Power = ERP (dBm) - Antenna Gain (dBi) + 2.15 = -54.95 dBm (0.000003199 mW)

#### 5 Conclusion

Source-base time average power is below Exemption Criteria and/or Routine Evaluation MPE thresholds, therefore the device is compliant FCC RF exposure requirement.



#### 6 Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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The address and road map of all our labs can be found in our web site also.

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