

# RF Exposure Evaluation Report

Product Name : MD100 Mouse  
Model No. : MD100  
FCC ID : MSQ-MS-MD100

Applicant : ASUSTeK Computer, Inc  
Address : 1F, No. 15, Lide Rd, Beitou, Taipei, 112 Taiwan

Date of Receipt : Sep. 05, 2021  
Date of Declaration : Nov. 03, 2021  
Report No. : 2190164R-RFUSMPEV03-A  
Report Version : V1.0



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by TAF or any agency of the government.

The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., Ltd.

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.

Issued Date: Nov. 03, 2021

Report No.: 2190164R-RFUSMPEV03-A



Product Name	MD100 Mouse	
Applicant	ASUSTeK Computer, Inc	
Address	1F, No. 15, Lide Rd, Beitou, Taipei, 112 Taiwan	
Manufacturer	Tatung Company	
Model No.	MD100	
FCC ID.	MSQ-MS-MD100	
Trade Name	ASUS	
Applicable Standard	KDB 447498 D01 v06	<input type="checkbox"/> Minimum test separation distance $\geq 20$ cm <input checked="" type="checkbox"/> For low power devices
Test Result	Complied	

Documented By : Genie Chang  
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Tested By : Jack Hsu  
 ( Senior Engineer / Jack Hsu )

Approved By : Tim Sung  
 ( Manager / Tim Sung )

## Revision History

Report No.	Version	Description	Issued Date
2190164R-RFUSMPEV03-A	V1.0	Initial issue of report.	2021-11-03

## 1. GENERAL INFORMATION

### 1.1. EUT Description

Product Name	MD100 Mouse
Trade Name	ASUS
Model No.	MD100
FCC ID.	MSQ-MS-MD100
Frequency Range	BLE : 2402-2480MHz 2.4G Wireless : 2403 – 2479MHz
Channel Number	BLE : 共 40 個 2.4G Wireless : 共 16 個
Type of Modulation	GFSK
Channel Control	Auto
Antenna Type	PCB Antenna
Antenna Gain	Refer to the table “Antenna List”

#### Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	BEKEN	BK3632	PCB Antenna	2.38dBi for 2.4 GHz

## 2. RF Exposure Evaluation

### 2.1. Standard Applicable

According to 1.1307 (b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

### 2.2. Measurement Result:

According to KDB Publication 447498 D01, section 4.3.1, per the calculations of item 1 ( $\text{Power(mW)}/\text{separation (mm)} \cdot \sqrt{f(\text{GHz})} \leq 3.0$ ), SAR is required as shown in the table below where calculated values are greater than 3.0:

Operation frequency = 2450MHz and antenna separation distance = 5mm,  
SAR Test Exclusion Threshold = 10mW

#### BLE

Frequency Band	Maximum PK power		SAR Test Exclusion Threshold
	(dBm)	(mW)	(mW)
2402	-2.9	0.513	10

#### 2.4G Wireless

Frequency Band	Maximum PK power		SAR Test Exclusion Threshold
	(dBuV/3m)	(mW)	(mW)
2479	98	1.892	10

Note 1: The SAR/MPE measurement is not necessary.

Note 2: The maximum PK power is refer to report No.: 2190164R-RFUSBLEV01-A 、 2190164R-RFUSOTHV06-A from the DEKRA.