

Report No.: TESA2406000366ES Page: 1 of 6





Applicant:	ASUSTeK COMPUTER INC.
Manufacturer:	1F., No. 15, Lide Rd., Beitou., Taipei 112, Taiwan ASUSTeK COMPUTER INC. 1F., No. 15, Lide Rd., Beitou., Taipei 112, Taiwan
Product Name:	MD102 MOUSE
Brand Name:	ASUS
Model No.:	MD102
FCC ID	MSQ-MS-MD102
Date of EUT Received:	Jun. 04, 2024
Issue Date:	Jul. 11, 2024
	John TI

John Yeh

We hereby certify that:

Approved By

The above equipment was evaluated by SGS Taiwan Ltd. The evaluation in this report is in compliance with FCC Rule Part §2.1093, KDB 447498 D01 v06.

The results of this report relate only to the sample identified in this report.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Revision History						
Report Number	Revision	Description	Issue Date	Revised By	Remark	
TESA2406000366ES	00	Original	Jul. 04, 2024	Cindy Chou		
TESA2406000366ES	01	Modify comment	Jul. 11, 2024	Cindy Chou	*	

Note:

1 • The remark "*" indicates modification of the report upon requests from certification body.

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DESCRIPTION OF EQUIPMENT UNDER TEST (EUT) 1

1.1 **Product Description**

Product Name:	MD102 MOUSE
Brand Name:	ASUS
Model No.:	MD102

1.2 **Evaluation site**

Laboratory	Site Address		FCC Designation number	ISED Company Number	CAB Identifier
SGS Taiwan Ltd.	\boxtimes	No. 134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, 24803, Taiwan.	TW0027	4620A	
Central RF Lab. (TAF code 3702)		No. 2, Keji 1st Rd., Guishan Township, Taoyuan County, 333 Taiwan.	TW0028	4620E	TW3702
		1F, No. 8, Alley 15, Lane 120, Sec. 1, Nei Hu Road, Neihu District, Taipei City, 222 Taiwan.	TW0029	23862	

1.3 Antenna Information:

The antenna information is provided by the applicant.

1.3.1 **BLE / SRD**

Antenna Type	Freq. (MHz)	Peak Antenna Gain (dBi)	
Copper trace antenna	2400~2500	1.91	

Note: Antenna information is provided by the applicant.

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RF EXPOSURE EVALUATION FOR PORTABLE CONDITIONS 2

2.1 FCC 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.

2.1.1 As per KDB 447498 D01 4.3.1,

Step a: For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-q and 10-q SAR test exclusion thresholds are determined by the following:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · $\sqrt{f(GHz)} \le 3.0$ for 1-g Head & Body SAR and ≤ 7.5 for 10-g extremity Hand SAR, where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation •
- The result is rounded to one decimal place for comparison
- The values 3.0 and 7.5 are referred to as numeric thresholds in step b) below
- Step b: For 100 MHz to 6 GHz and test separation distances > 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following (also illustrated in Appendix B):
 - 1) {[Power allowed at numeric threshold for 50 mm in step a)] + [(test separation distance - 50 mm) (f(MHz)/150)]} mW, for 100 MHz to 1500 MHz
 - 2) {[Power allowed at numeric threshold for 50 mm in step a)] + [(test separation distance – 50 mm) \cdot 10]} mW, for > 1500 MHz and \leq 6 GHz
- Step c: For frequencies below 100 MHz, the following may be considered for SAR test exclusion (also illustrated in Appendix C):

1) For test separation distances > 50 mm and < 200 mm, the power threshold at the corresponding test separation distance at 100 MHz in step b) is multiplied by [1 + log(100/f(MHz))]

2) For test separation distances \leq 50 mm, the power threshold determined by the equation in c) 1) for 50 mm and 100 MHz is multiplied by $\frac{1}{2}$

3) SAR measurement procedures are not established below 100 MHz

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2.2 **Measurement Result:**

Step a:

This is a portable device and the max. output power including tune-up tolerance is 1 (mW), lower than the threshold given and derived as formula given above, where

=1(mW)/5(mm)*√2.402(GHz) = 0.31 < 3.0

BLE

Frequency (MHz)	Max. output power including tune-up tolerance(dBm)	Max. output power including tune-up tolerance(mW)	Distance (mm)	Result	≤ 3.0 for 1-g SAR
2402	0	1	5	0.310	TRUE

SRD

Frequency (MHz)	Max. output power including tune-up tolerance(dBm)	Max. output power including tune-up tolerance(mW)	Distance (mm)	Result	≤ 3.0 for 1-g SAR
2403	0	1	5	0.310	TRUE

As the result of calculation result indicates, the RF exposure generating from given transmitter (transmitter employed digital modulation) can be excluded from SAR measurement, and is deemed compliant with RF exposure as per FCC.

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