

# RF Exposure Evaluation Report

Product Name : Dongle  
Model No. : MD300-D  
FCC ID : MSQ-DG-MD300D

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

Date of Receipt : Dec. 02, 2021  
Date of Declaration : Jan. 05, 2022  
Report No. : 21C0100R-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: Jan. 05, 2022

Report No.: 21C0100R-RFUSMPEV03-A



Product Name	Dongle	
Applicant	ASUSTeK Computer, Inc	
Address	1F, No. 15, Lide Rd, Beitou, Taipei, 112 Taiwan	
Manufacturer	ASUSTeK Computer, Inc	
Model No.	MD300-D	
FCC ID.	MSQ-DG-MD300D	
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

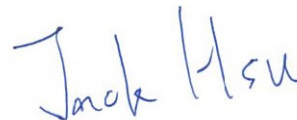
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( Senior Project Specialist / Joanne Lin )

Tested By

:



( Senior Engineer / Jack Hsu )

Approved By

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( Manager / Tim Sung )

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## Revision History

Report No.	Version	Description	Issued Date
21C0100R-RFUSMPEV03-A	V1.0	Initial issue of report.	2022-01-05

## 1. GENERAL INFORMATION

### 1.1. EUT Description

Product Name	Dongle
Trade Name	ASUS
Model No.	MD300-D
FCC ID.	MSQ-DG-MD300D
Frequency Range	2403-2480MHz
Channel Number	78CH
Type of Modulation	GFSK
Antenna Type	Chip Antenna
Channel Control	Auto
Antenna Gain	Refer to the table "Antenna List"

#### Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	Unictron	CW501S	Chip Antenna	0.7dBi for 2.4GHz

## 1.2. Test Facility

Site Description : Accredited by TAF  
Accredited Number: 3023

Test Laboratory : DEKRA Testing and Certification Co., Ltd  
Address : No. 5-22, Ruishukeng Linkou District, New Taipei City, 24451,  
Taiwan

Performed Location : No. 26, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan,  
R.O.C.

Phone number : +886-3-275-7255  
Fax number : +866-3-327-8031  
Email address : [info.tw@dekra.com](mailto:info.tw@dekra.com)  
Website : <http://www.dekra.com.tw>

## 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

#### 2.4G Wireless:

Frequency Band	Maximum Peak EIRP power		SAR Test Exclusion Threshold	Calculated Threshold Value ( $\leq 3$ SAR is not required)
	(dBuV/3m)	(mW)	(mW)	
2403	81.66	0.0440	10	0.01363

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

Note 2: The maximum peak EIRP power is refer to report No.: 21C0100R-RFUSOTHV06-A from the DEKRA.