RF Exposure Evaluation Report

Product Name : TUF Gaming H3 Wireless dongle

Model No. : TUF GAMING H3 WIRELESS DONGLE

FCC ID : BJM-TUFH3WLD

Applicant : Tatung Company

Address : 22 Chungshan N Road Sec 3 ,Taipei 10451,Taiwan

Date of Receipt : Oct. 05, 2020

Date of Declaration : Nov. 30, 2020

Report No. : 20A0023R-E3082100014

Report Version : V1.0

Testing Laboratory

3023

Issued Date: Nov. 30, 2020
Report No.: 20A0023R-E3082100014

Product Name	TUF Gaming H3 Wireless dongle	
Applicant	Tatung Company	
Address	22 Chungshan N Road Sec 3 ,Taipei 10451,Taiwan	
Manufacturer	Tatung Company	
Model No.	TUF GAMING H3 WIRELESS DONGLE	
FCC ID.	BJM-TUFH3WLD	
Trade Name	ASUS	
Applicable Standard	KDB 447498 D01 v06	☐ Minimum test separation distance ≥ 20 cm ☒ For low power devices
Test Result	Complied	

Documented By : Ida Tung

(Adm. Specialist / Ida Tung)

Tested By : wen Lee

(Senior Engineer / Wen Lee)

Approved By :

(Director / Vincent Lin)

Revision History

Report No.	Version	Description	Issued Date
20A0023R-E3082100014	V1.0	Initial issue of report.	2020-11-30

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	TUF Gaming H3 Wireless dongle
Trade Name	ASUS
Model No.	TUF GAMING H3 WIRELESS DONGLE
FCC ID.	BJM-TUFH3WLD
Frequency Range	Wireless: 2405.35-2477.35MHz
Channel Number	Wireless: 37CH
Type of Modulation	Pi/4 DQPSK
Channel Control	Auto
Antenna Type	Chip Antenna
Antenna Gain	Refer to the table “Antenna List”

1.2. Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	Advanced Ceramic X Corp.	AT3216-B2R7HAA_	Chip Antenna	0.5dBi for 2.4GHz

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 (Power(mW)/separation (mm)*sqrt(f(GHz)≤3.0), SAR is required as shown in the table below where calculated values are greater than 3.0:

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

Frequency Band	Maximum AV EIRP power		SAR Test Exclusion Threshold	Calculated Threshold Value (≦3.0 SAR is not required)
	(dBuV/3m)	(mW)	(mW)	
2405.35MHz	68.179	0.00197	10	0.001

Note1: The SAR/MPE measurement is not necessary.

Note2: The Maximum AV EIRP power is refer to report No.: 20A0023R-E3032110120 from the DEKRA.