RF Exposure Evaluation Report

Product Name : Gaming Mouse Dongle

Model No. : P510DONGLE

FCC ID : EMJDP510DONGLE

Applicant : Primax Electronics Ltd

Address : 669 Ruey Kuang Road Neihu 114, Taipei, Taiwan

Date of Receipt : May 23, 2020

Date of Declaration : Jun. 29, 2020

Report No. : 2050593R-E3082100014

Report Version : V1.0

Issued Date: Jun. 29, 2020
Report No.: 2050593R-E3082100014

Product Name	Gaming Mouse Dongle	
Applicant	Primax Electronics Ltd	
Address	669 Ruey Kuang Road Neihu 114, Taipei, Taiwan	
Manufacturer	Primax Electronics Ltd	
Model No.	P510DONGLE	
FCC ID.	EMJDP510DONGLE	
Trade Name	ASUS	
Applicable Standard	KDB 447498 D01 v06	☐ Minimum test separation distance ≥ 20 cm ☒ For low power devices
Test Result	Complied	

Documented By : Jinn Chen
(Senior Adm. Specialist / Jinn Chen)

Tested By : wen Lee
(Senior Engineer / Wen Lee)

Approved By :
(Director / Vincent Lin)

Revision History

Report No.	Version	Description	Issued Date
2050593R-E3082100014	V1.0	Initial issue of report.	2020-06-29

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	Gaming Mouse Dongle
Trade Name	ASUS
Model No.	P510DONGLE
FCC ID.	EMJDP510DONGLE
Frequency Range	Wireless: 2403-2480MHz
Channel Number	Wireless: 78CH
Type of Modulation	GFSK
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	ACX	AT8010-E2R9HAA	Chip Antenna	-3.8dBi 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.) Wireless:

Operation frequency = 2450MHz and antenna separation distance = 5mm,

SAR Test Exclusion Threshold = 10mW

Frequency Band (MHz)	Maximum peak output power		SAR Test Exclusion Threshold	Calculated Threshold Value (≦3.0 SAR is not required)
	conducted (dBm)	conducted (mW)	(mW)	
2403~2480	4.01	2.52	10	0.781

Note1: The SAR/MPE measurement is not necessary.

Note2: The conducted output power is refer to report No.: 2050593R-E3032110109 from the DEKRA.