RF EXPOSURE REPORT

FCC Applicant:	Wacom Co., Ltd.
	2-510-1 Toyonodai, Kazo-shi, Saitama, 349-1148, Japan
Product Name:	Active Pen
Brand Name:	HP
Model No.:	G2022P
Report Number:	TESA2207000244ES
FCC ID	HV4-G2022P
Issue Date:	Sep. 26, 2022

John Yeh

Approved By _____

John Yeh

We hereby certify that:

The above equipment was evaluate by SGS Taiwan Ltd. The evaluation in this report is in compliance with FCC Rule Part §2.1093.

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

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TESA2207000244ES	00	Original	Sep. 26, 2022	Kimmy Chiou	

Note:

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

Table of Contents

1 DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)

1.1 Product Description

Product Name:	Active Pen
Brand Name:	HP
Model No.:	G2022P
Power Supply:	2Vdc

1.2 Reference Test Report

Test Lab:	SGS Taiwan Ltd. Central RF Lab
Report Number:	TERF2207001254ER

1.3 Antenna Information:

1.3.1 BLE

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)
Chip	Unictron	H2U34C1H1B0100	2.4GHz	**2.10**

Note: Antenna information is provided by the applicant.

2 RF EXPOSURE EVALUATION FOR PORTABLE CONDITIONS

2.1 SAR-based Exemption

SAR-based thresholds are derived based on frequency, power, and separation distance of the RF source. The formula defines the thresholds in general for either available maximum time-averaged power or maximum time-averaged ERP, whichever is greater.

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold Pth (mW).

$$P_{\text{th}}\,(\text{mW}) = ERP_{20\,\text{cm}}\,(\text{mW}) = \begin{cases} 2040f & 0.3\,\text{GHz} \leq f < 1.5\,\text{GHz} \\ 3060 & 1.5\,\text{GHz} \leq f \leq 6\,\text{GHz} \end{cases} \tag{B.1}$$

$$P_{\text{th}}\,(\text{mW}) = \begin{cases} ERP_{20\,\text{cm}}(d/20\,\text{cm})^x & d \leq 20\,\text{cm} \\ ERP_{20\,\text{cm}} & 20\,\text{cm} < d \leq 40\,\text{cm} \end{cases} \tag{B.2}$$

where

$$x = -\log_{10}\left(\frac{60}{ERP_{20\,\text{cm}}\sqrt{f}}\right)$$

and f is in GHz, d is the separation distance (cm), and ERP20cm is per Formula (B.1).

2.2 Measurement Result:

Mode	Frequency (MHz)	Distance (cm)	Max. tune-up power (dBm)	Max. tune-up power (mW)	Peak gain (dBi)	ERP (dBm)	ERP (mW)	x	ERP$_{20cm}$ (mW)	P$_{th}$ (mW)	P or ERP /P$_{th}$
BLE	2480	0.5	1	1.259	2.1	0.95	1.245	1.905	3060.00	2.72	0.463

~ End of Report ~