

<b>Prüfbericht-Nr.:</b> <i>Test report no.:</i>	CN22CWA7 (FCC-RFEXP) 001	<b>Auftrags-Nr.:</b> <i>Order no.:</i>	238546376	Seite 1 von 8 Page 1 of 8
<b>Kunden-Referenz-Nr.:</b> <i>Client reference no.:</i>	N/A	<b>Auftragsdatum:</b> <i>Order date:</i>	2022-08-05	
<b>Auftraggeber:</b> <i>Client:</i>	HP Inc. 3390 East Harmony Road, Fort Collins, CO 80528, USA			
<b>Prüfgegenstand:</b> <i>Test item:</i>	HyperX Pulsefire Haste 2 Wireless Gaming Mouse			
<b>Bezeichnung / Typ-Nr.:</b> <i>Identification / Type no.:</i>	PF009			
<b>Auftrags-Inhalt:</b> <i>Order content:</i>	FCC Certification			
<b>Prüfgrundlage:</b> <i>Test specification:</i>	IEEE Std C95.1 47 CFR §2.1093 47 CFR §1.1310			
<b>Wareneingangsdatum:</b> <i>Date of sample receipt:</i>	2022-07-27			
<b>Prüfmuster-Nr.:</b> <i>Test sample no.:</i>	A003308509-007 A003308509-009			
<b>Prüfzeitraum:</b> <i>Testing period:</i>	2022-08-09 - 2022-08-29			
<b>Ort der Prüfung:</b> <i>Place of testing:</i>	EMC/RF Taipei Testing Site			
<b>Prüflaboratorium:</b> <i>Testing laboratory:</i>	Taipei Testing Laboratories			
<b>Prüfergebnis*:</b> <i>Test result*:</i>	Pass			
<b>überprüft von:</b> <i>compiled by:</i>	 Ryan Chen Senior Project Manager	<b>genehmigt von:</b> <i>authorized by:</i>	 Brenda Chen Senior Project Manager	
<b>Datum:</b> <i>Date:</i>	2022-09-02	<b>Ausstellungsdatum:</b> <i>Issue date:</i>	2022-09-02	
<b>Stellung / Position:</b>	Senior Project Manager	<b>Stellung / Position:</b>	Senior Project Manager	
<b>Sonstiges / Other:</b>				
<b>Zustand des Prüfgegenstandes bei Anlieferung:</b> <i>Condition of the test item at delivery:</i>		Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>		
<p>* Legende: 1 = sehr gut    2 = gut    3 = befriedigend    4 = ausreichend    5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n)    F(ail) = entspricht nicht o.g. Prüfgrundlage(n)    N/A = nicht anwendbar    N/T = nicht getestet</p> <p>* Legend: 1 = very good    2 = good    3 = satisfactory    4 = sufficient    5 = poor P(ass) = passed a.m. test specification(s)    F(ail) = failed a.m. test specification(s)    N/A = not applicable    N/T = not tested</p>				
<p><b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b> <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i></p>				

## Contents

<b>HISTORY OF THIS TEST REPORT .....</b>	<b>3</b>
<b>1 GENERAL REMARKS .....</b>	<b>4</b>
<b>1.1 COMPLEMENTARY MATERIALS.....</b>	<b>4</b>
<b>1.2 DECISION RULE OF CONFORMITY .....</b>	<b>4</b>
<b>2 TEST SITES .....</b>	<b>5</b>
<b>2.1 TEST FACILITIES .....</b>	<b>5</b>
<b>2.2 TEST FACILITY.....</b>	<b>5</b>
<b>3 GENERAL PRODUCT INFORMATION.....</b>	<b>6</b>
<b>3.1 PRODUCT FUNCTION AND INTENDED USE .....</b>	<b>6</b>
<b>3.2 RATINGS AND SYSTEM DETAILS.....</b>	<b>6</b>
<b>4 RF EXPOSURE EVALUATION .....</b>	<b>7</b>
<b>4.1 SAR TEST EXCLUSION .....</b>	<b>7</b>
<b>5 TEST RESULTS .....</b>	<b>8</b>
<b>5.1 SAR TEST EXCLUSION THRESHOLD.....</b>	<b>8</b>

### APPENDIX EP - PHOTOGRAPHS OF EUT

### HISTORY OF THIS TEST REPORT

Report No.	Description	Date Issued
CN22CWA7 (FCC-RFEXP) 001	Original Release	2022-09-02

# 1 General Remarks

## 1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:  
**Appendix EP - Photographs of EUT**

## 1.2 Decision Rule of Conformity

The decision rule of conformity of this test report is following the requirements of the requested standard in the quotation, and agreed among testing laboratory and manufacturer (applicant) to exclude the consideration of Measurement Uncertainty, unless it is required by the specific standard.

## 2 Test Sites

### 2.1 Test Facilities

Taipei Testing Laboratories

11F. No.758, Sec. 4, Bade Rd., Songshan Dist.  
Taipei City 105  
Taiwan (R.O.C.)

### 2.2 Test Facility

Taipei Testing Laboratories

No.458-18, Sec. 2, Fenliao Rd., Linkou Dist.,  
New Taipei City 244  
Taiwan (R.O.C.)

### 3 General Product Information

#### 3.1 Product Function and Intended Use

The EUT is a HyperX Pulsefire Haste 2 Wireless Gaming Mouse. It contains a Bluetooth compatible module enabling the user to communicate data through a wireless interface.

For details refer to the User Guide, Data Sheet and Circuit Diagram.

#### 3.2 Ratings and System Details

##### Basic Information of EUT

Item	EUT Information
Kind of Equipment/Test Item	HyperX Pulsefire Haste 2 Wireless Gaming Mouse
Type Identification	PF009
FCC ID	B94-PF009

##### Technical Specification of EUT

Item	EUT Information
Operating Frequency	Bluetooth LE: 2402 ~ 2480 MHz SRD 2.4GHz: 2402 ~ 2479 MHz
Modulation	Bluetooth LE: GFSK SRD 2.4GHz: FSK
Operation Voltage	3.7 Vdc
Antenna Type	PCB Antenna
Antenna Gain	2.79 dBi

## 4 RF Exposure Evaluation

### 4.1 SAR test exclusion

#### Following FCC KDB 447498 D04 "Interim General RF Exposure Guidance v01"

The corresponding SAR Test Exclusion Threshold condition(s), listed below:

- 1)  $P_{th}(mW) = ERP_{20cm}(d / 20)^x$   $x$  for distance  $d \leq 20cm$
- 2)  $P_{th}(mW) = ERP_{20cm}$  for distance  $20cm < d \leq 40cm$

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

$P_{th}(mW) = ERP_{20cm} =$  0.3 GHz  $\leq f <$  1.5 GHz: 2040 f  
1.5 GHz  $\leq f \leq$  6 GHz: 3060

Note:

The maximum time-averaged power or effective radiated power (ERP), whichever is greater,  $\leq P_{th}$   
 $P_{th}$  is calculated based on separation distance  $d$  cm from transmitter to person for the device operating at  $f$  GHz

## 5 Test Results

### 5.1 SAR Test Exclusion Threshold

Band	Freq (MHz)	AVGP (dBm)	Ant Gain (dBi)	Distances (mm)	Duty (%)	AVGP (mW)	ERP (dBm)	ERP (mW)
Bluetooth LE	2480	0.65	2.79	5	100%	1.16	1.29	1.35
SRD 2.4G	2479	0.67	2.79	5	100%	1.17	1.31	1.35

\*AVGP is time-averaged power

Band	Freq (MHz)	Pth (mW)	X	ERP 20cm (mW)	Result
Bluetooth LE	2480	2.72	1.905	3060	exempt
SRD 2.4G	2479	2.72	1.905	3060	exempt

Note: Measured conducted average power was performed by power meter.