

RF Exposure Evaluation Report

Product : Hypershell X Max S,
Hypershell X Ultra S,
Hypershell X Pro S

Trade mark : Hypershell

Model/Type reference : P904, P902

Serial Number : N/A

Report Number : EED32S80113902

FCC ID : 2BHQ3-P90XS

Date of Issue : Mar. 24, 2026

Test Standards : 47 CFR Part 1.1307
47 CFR Part 1.1310
47 CFR Part 2.1093
KDB 447498 D04 Interim General RF
Exposure Guidance v01

Test result : PASS

Prepared for:

Hypershell Co., Ltd

**Room 118, Building 20, No1-42, Lane 83, Hongxiang North Road, Lingang
NewArea, China(Shanghai)Pilot Free Trade Zone, Shanghai, China.**

Prepared by:

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2 General Information

2.1 Client Information

Applicant:	Hypershell Co., Ltd
Address of Applicant:	Room 118, Building 20, No1-42, Lane 83, Hongxiang North Road, Lingang NewArea, China(Shanghai)Pilot Free Trade Zone, Shanghai, China.
Manufacturer:	Hypershell Co., Ltd
Address of Manufacturer:	Room 118, Building 20, No1-42, Lane 83, Hongxiang North Road, Lingang NewArea, China(Shanghai)Pilot Free Trade Zone, Shanghai, China.
Factory:	Genbyte Technology Inc.
Address of Factory:	Building 1(1-13F), Zhenwei Technology Park, No.223 Chang feng Road, Changzhen Community, Yutang Sub-District, Guangming District, Shenzhen City, P.R. China

2.2 General Description of EUT

Product Name:	Hypershell X Max S, Hypershell X Ultra S, Hypershell X Pro S
Model No.:	P904, P902
Test Model No.:	P904
Trade mark:	Hypershell

2.3 Product Specification subjective to this standard

Frequency Range:	BLE: 2402MHz~2480MHz	
Modulation Type:	BLE: GFSK	
Test Power Grade:	7	
Test Software of EUT:	EspRFTestTool_v4.7_Manual.exe	
Antenna Type:	PCB Antenna	
Antenna Gain:	3.37dBi	
Power Supply:	Battery:	DC 16.8V
Sample Received Date:	Jan. 19, 2026	
Sample tested Date:	Jan. 19, 2026 to Feb. 05, 2026	
Remark:	Model No.: P904, P902 Only the model P904 was tested, Their electrical circuit design, layout, components used and internal wiring are identical,Only the materials and colors of the leg rod and waist rod is different.	

2.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Hongwei Industrial Park, Zone 70, Bao'an District, Shenzhen, Guangdong, China

Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164, Test Firm Registration No.: 260439

2.5 Deviation from Standards

None.

2.6 Abnormalities from Standard Conditions

None.

2.7 Other Information Requested by the Customer

None.

3 SAR Evaluation

3.1 RF Exposure Compliance Requirement

3.1.1 Limits

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 P_{th} (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by Formula

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

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 $ERP_{20 \text{ cm}}$ is per Formula (B.1).

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

The 1 mW Blanket Exemption of § 1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance.

3.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

3.1.3 EUT RF Exposure Evaluation

For Stand alone:

Band	Freq. (MHz)	Estimation distance (cm)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (mW)	MPE ratio	Result
BLE	2402	0.5	-1.27	3.37	-0.05	0.99	2.788	0.3546	Pass

Note:

- ① EIRP=conducted power+antenna gain;
- ② $ERP=EIRP-2.15$;
- ③ $EIRP(dBm) = \text{Field strength of the fundamental signal}(dBuV/m@3m) - 95.23$;
- ④ $ERP(mW) = 10^{(ERP(dBm)/10)}$;
- ⑤ The estimation distance is 0.5cm;
- ⑥ The test data please refer to the report of EED32S80113901 and only the worst case data was recorded in the report.

Statement

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
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*** End of Report ***