

RF EXPOSURE REPORT

CERTIFICATE OF CONFORMITY

FCC Rule Part: FCC Part 2 (Section 2.1093)

Report No.: MFBEIH-WTW-P23060517C

FCC ID: 2BBDG-CHPU-NS-A01

Product: Canopy Hub

Brand: CANOPY

Model No.: CHPU-NS-A01

Received Date: 2023/6/20

Test Date: 2023/7/27 ~ 2023/8/30

Issued Date: 2025/9/12

Applicant: SNTNL LLC

Address: 1 American Road, Detroit, Michigan, United States 48126

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lin Kou Laboratories

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Test Location: No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kewi Shan Dist., Taoyuan City 33383, Taiwan

FCC Registration / 788550 / TW0003

Designation Number:

Approved by: _____



, **Date:** _____

2025/9/12

Jeremy Lin / Project Engineer

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Prepared by : Vera Huang / Specialist



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Release Control Record

| Issue No. | Description | Date Issued |
|-----------------------|------------------|-------------|
| MFBEIH-WTW-P23060517C | Original Release | 2025/9/12 |

1 Certificate

Product: Canopy Hub

Brand: CANOPY

Test Model: CHPU-NS-A01

Sample Status: Engineering Sample

Applicant: SNTNL LLC

Test Date: 2023/7/27 ~ 2023/8/30

FCC Rule Part: FCC Part 2 (Section 2.1093)

Standard: KDB 447498 D04 Interim General RF Exposure Guidance v01

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

2 Applicable RF Exposure Limit

§ 1.1310 Radiofrequency radiation exposure limits.

(a) Specific absorption rate (SAR) shall be used to evaluate the environmental impact of human exposure to radiofrequency (RF) radiation as specified in § 1.1307(b) of this part within the frequency range of 100 kHz to 6 GHz (inclusive).

(b) The SAR limits for occupational/controlled exposure are 0.4 W/kg, as averaged over the whole body, and a peak spatial-average SAR of 8 W/kg, averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the parts of the human body treated as extremities, such as hands, wrists, feet, ankles, and pinnae, where the peak spatial-average SAR limit for occupational/controlled exposure is 20 W/kg, averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). Exposure may be averaged over a time period not to exceed 6 minutes to determine compliance with occupational/controlled SAR limits.

(c) The SAR limits for general population/uncontrolled exposure are 0.08 W/kg, as averaged over the whole body, and a peak spatial-average SAR of 1.6 W/kg, averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the parts of the human body treated as extremities, such as hands, wrists, feet, ankles, and pinnae, where the peak spatial-average SAR limit is 4 W/kg, averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). Exposure may be averaged over a time period not to exceed 30 minutes to determine compliance with general population/uncontrolled SAR limits.

(e) Maximum Permissible Exposure (MPE) to radiofrequency electromagnetic fields

➤ Limits for General Population/Uncontrolled Exposure

| Frequency Range (MHz) | Electric Field Strength (V/m) | Magnetic Field Strength (A/m) | Power Density (mW/cm ²) | Average Time (minutes) |
|---|-------------------------------|-------------------------------|-------------------------------------|------------------------|
| Limits For General Population / Uncontrolled Exposure | | | | |
| 0.3-1.34 | 614 | 1.63 | (100)* | 30 |
| 1.34-30 | 824/f | 2.19/f | (180/f ²)* | 30 |
| 30-300 | 27.5 | 0.073 | 0.2 | 30 |
| 300-1500 | ... | ... | f/1500 | 30 |
| 1500-100,000 | ... | ... | 1.0 | 30 |

f = frequency in MHz. * = Plane-wave equivalent power density.

➤ Limits for Occupational/Controlled Exposure

| Frequency Range (MHz) | Electric Field Strength (V/m) | Magnetic Field Strength (A/m) | Power Density (mW/cm ²) | Average Time (minutes) |
|---|-------------------------------|-------------------------------|-------------------------------------|------------------------|
| Limits For General Population / Uncontrolled Exposure | | | | |
| 0.3-3.0 | 614 | 1.63 | *(100) | ≤6 |
| 3.0-30 | 1842/f | 4.89/f | *(900/f ²) | <6 |
| 30-300 | 61.4 | 0.163 | 1.0 | <6 |
| 300-1,500 | | | f/300 | <6 |
| 1,500-100,000 | | | 5 | <6 |

f = frequency in MHz. * = Plane-wave equivalent power density.

MPE-based Exemption – §1.1307(b)(3)(i)(C)

- The minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. The MPE-based test exemption condition is in terms of ERP, defined as the product of the maximum antenna gain and the delivered maximum time-averaged power.
- Table applies to any RF source (i.e. single fixed, mobile, and portable transmitters) and specifies power and distance criteria for each of the five frequency ranges used for the MPE limits.

| RF Source frequency (MHz) | Minimum Distance | | Threshold ERP (watts) |
|---|------------------|------------------|-----------------------|
| | $\lambda_L/2\pi$ | $\lambda_H/2\pi$ | |
| 0.3-1.34 | 159 m–35.6 m | | 1,920 R^2 . |
| 1.34-30 | 35.6 m–1.6 m | | 3,450 R^2/f^2 . |
| 30-300 | 1.6 m–159 mm | | 3.83 R^2 . |
| 300-1,500 | 159 mm–31.8 mm | | 0.0128 R^2f . |
| 1,500-100,000 | 31.8 mm–0.5 mm | | 19.2 R^2 . |
| R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. | | | |

SAR-based Exemption - §1.1307(b)(3)(i)(B)

- The SAR-based exemption formula of §1.1307(b)(3)(i)(B), 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.

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

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)

When 10-g extremity SAR applies, SAR test exemption may be considered by applying a factor of 2.5 to the SAR-based exemption thresholds.

Fixed RF sources operating in the same time-averaging period – §1.1307(b)(3)(ii)(B)

- Either SAR-based or MPE-based exemption may be considered for test exemption for fixed, mobile, or portable device exposure conditions; therefore, the contributions from each exemption in conjunction with the measured SAR (Evaluated_k term) should be used to determine exemption for simultaneous transmission according to Formula below,

$$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{Exposure\ Limit_k} \leq 1$$

The sum of the ratios of the applicable terms for SAR-based, MPE-based and measured SAR or MPE should be less than 1, to determine simultaneous transmission exposure compliance.

Where:

a = number of fixed, mobile, or portable RF sources claiming exemption using [paragraph \(b\)\(3\)\(i\)\(B\)](#) of this section for P_{th} , including existing exempt transmitters and those being added.

c = number of existing fixed, mobile, or portable RF sources with known evaluation for the specified minimum distance including existing evaluated transmitters.

$P_{th,i}$ = the exemption threshold power (P_{th}) according to [paragraph \(b\)\(3\)\(i\)\(B\)](#) of this section for fixed, mobile, or portable RF source i .

$ERP_{th,j}$ = exemption threshold ERP for fixed, mobile, or portable RF source j , at a distance of at least $\lambda/2\pi$ according to the applicable formula of [paragraph \(b\)\(3\)\(i\)\(C\)](#) of this section.

$Exposure\ Limit_k$ = either the general population/uncontrolled maximum permissible exposure (MPE) or specific absorption rate (SAR) limit for each fixed, mobile, or portable RF source k , as applicable from [§ 1.1310 of this chapter](#).

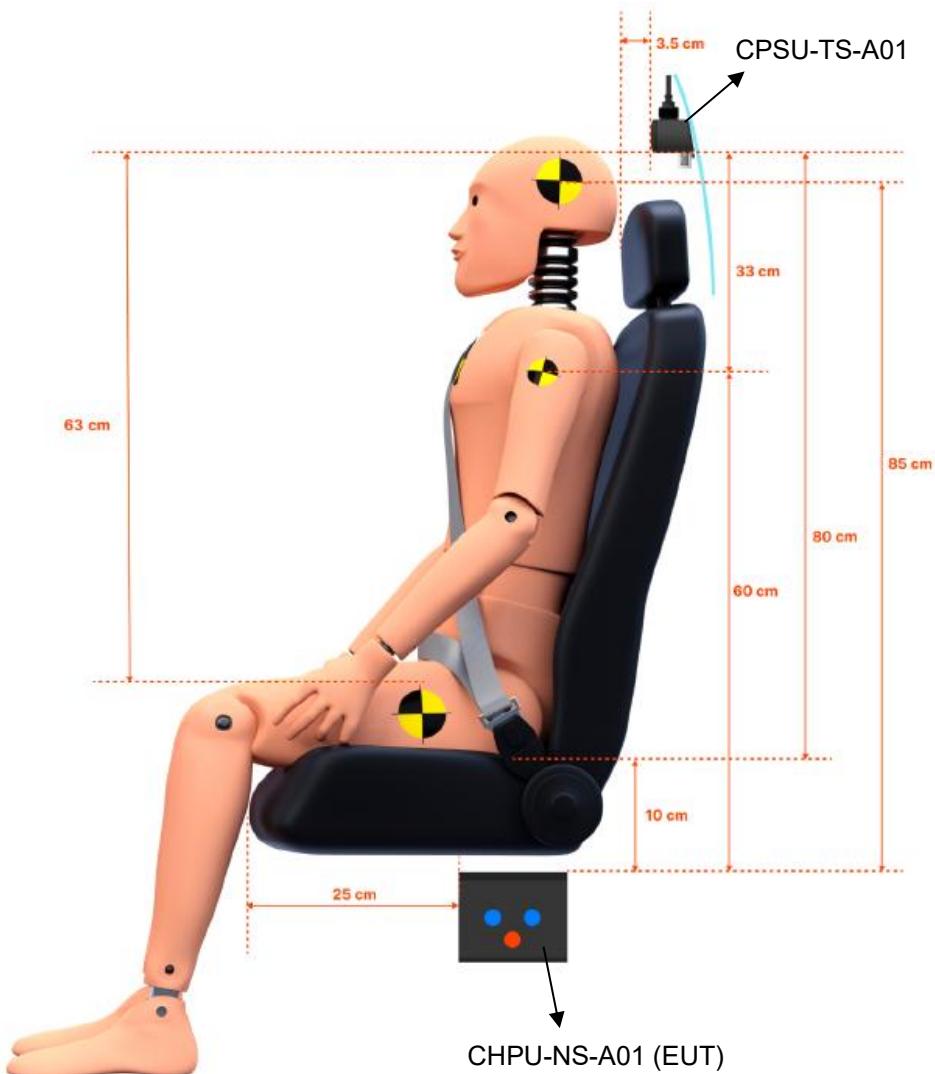
b = number of fixed, mobile, or portable RF sources claiming exemption using [paragraph \(b\)\(3\)\(i\)\(C\)](#) of this section for Threshold ERP, including existing exempt transmitters and those being added.

P_i = the available maximum time-averaged power or the ERP, whichever is greater, for fixed, mobile, or portable RF source i at a distance between 0.5 cm and 40 cm (inclusive).

ERP_j = the ERP of fixed, mobile, or portable RF source j .

$Evaluated_k$ = the maximum reported SAR or MPE of fixed, mobile, or portable RF source k either in the device or at the transmitter site from an existing evaluation at the location of exposure.

3 Product installation location



4 Test Results

| | | | |
|---------------------------|--------------|------------|-----------|
| Environmental Conditions: | 25°C, 60% RH | Tested By: | Nick Chen |
|---------------------------|--------------|------------|-----------|

This report is issued as a duplicate report of BV CPS report no.: MFBEIH-WTW-P23060517-1. The difference compared with the original report are changing power board and power cable change to 4m. Since the changes does not effect the MPE value, therefore, the original calculate result was kept in this report.

For Single RF Source

| SAR-based Exemption | | | | | | | | | |
|---------------------|----------------------|---------------------|---------------------|--------------------|--------------------|------------------|---------------|----------------------|-------------|
| Operation Mode | Frequency Band (MHz) | Average power (dBm) | Tune-Up Power (dBm) | Tune-Up Power (mW) | Antenna Gain (dBi) | Maximum ERP (mW) | Distance (cm) | Limit Threshold (mW) | Test Result |
| WLAN 2.4 GHz | 2412-2462 | 20.68 | 21.0 | 125.9 | 3.51 | 172.197 | 6.5 | 360.355 | Pass |
| WLAN 5 GHz | 5180-5240 | 20.32 | 20.5 | 112.21 | 4.09 | 175.401 | 6.5 | 299.687 | Pass |
| WLAN 5 GHz | 5745-5825 | 21.62 | 22.0 | 158.49 | 4.09 | 247.743 | 6.5 | 292.045 | Pass |
| Bluetooth | 2402-2480 | 6.85 | 7.0 | 5.02 | 3.1 | 6.247 | 6.5 | 359.715 | Pass |
| WCDMA | 1712.4-1752.6 | 22.65 | 23.0 | 200 | 2.23 | 203.718 | 6.5 | 391.521 | Pass |
| LTE | 699.7-715.3 | 23.72 | 24.0 | 251.19 | 1.32 | 207.492 | 6.5 | 333.517 | Pass |

For Multiple RF Sources (Simultaneous Operations Condition 1)

| Multiple RF Sources (Simultaneous Operations) | | | | | | | |
|---|----------------------|---------|----------------------|-------|---------------|-----------------|-------------|
| Exemption Evaluation | | | | | Sum of Ratios | Limit of Ratios | Test Result |
| Operation Mode | Frequency Band (MHz) | (mW) | Limit Threshold (mW) | Ratio | | | |
| WLAN 2.4 GHz | 2412-2462 | 172.197 | 360.355 | 0.478 | 0.495 | 1 | Pass |
| Bluetooth | 2402-2480 | 6.247 | 359.715 | 0.017 | | | |

For Multiple RF Sources (Simultaneous Operations Condition 2)

| Multiple RF Sources (Simultaneous Operations) | | | | | | | |
|---|----------------------|---------|----------------------|-------|---------------|-----------------|-------------|
| Exemption Evaluation | | | | | Sum of Ratios | Limit of Ratios | Test Result |
| Operation Mode | Frequency Band (MHz) | (mW) | Limit Threshold (mW) | Ratio | | | |
| WLAN 5 GHz | 5180-5240 | 175.401 | 299.687 | 0.585 | 0.602 | 1 | Pass |
| Bluetooth | 2402-2480 | 6.247 | 359.715 | 0.017 | | | |

For Multiple RF Sources (Simultaneous Operations Condition 3)

| Multiple RF Sources (Simultaneous Operations) | | | | | | | |
|---|----------------------|---------|----------------------|-------|---------------|-----------------|-------------|
| Exemption Evaluation | | | | | Sum of Ratios | Limit of Ratios | Test Result |
| Operation Mode | Frequency Band (MHz) | (mW) | Limit Threshold (mW) | Ratio | | | |
| WLAN 5 GHz | 5745-5825 | 247.743 | 292.045 | 0.848 | 0.865 | 1 | Pass |
| Bluetooth | 2402-2480 | 6.247 | 359.715 | 0.017 | | | |

For Multiple RF Sources (Simultaneous Operations Condition 4)

| Multiple RF Sources (Simultaneous Operations) | | | | | | | |
|---|----------------------|---------|----------------------|-------|---------------|-----------------|-------------|
| Exemption Evaluation | | | | | Sum of Ratios | Limit of Ratios | Test Result |
| Operation Mode | Frequency Band (MHz) | (mW) | Limit Threshold (mW) | Ratio | | | |
| Bluetooth | 2402-2480 | 6.247 | 359.715 | 0.017 | 0.537 | 1 | Pass |
| WCDMA | 1712.4-1752.6 | 203.718 | 391.521 | 0.52 | | | |

For Multiple RF Sources (Simultaneous Operations Condition 5)

| Multiple RF Sources (Simultaneous Operations) | | | | | | | |
|---|----------------------|--------------------|----------------------|-------|---------------|-----------------|-------------|
| Exemption Evaluation | | | | | Sum of Ratios | Limit of Ratios | Test Result |
| Operation Mode | Frequency Band (MHz) | Average Power (mW) | Limit Threshold (mW) | Ratio | | | |
| Bluetooth | 2402-2480 | 6.247 | 359.715 | 0.017 | 0.77 | 1 | Pass |
| LTE | 699.7-715.3 | 251.19 | 333.517 | 0.753 | | | |

5 Conclusion

Source-base time average power is below Exemption Criteria and/or Routine Evaluation MPE thresholds, therefore the device is compliant FCC RF exposure requirement.

6 Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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The address and road map of all our labs can be found in our web site also.

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