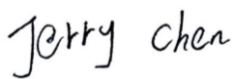


# FCC SAR Exemption Evaluation Report

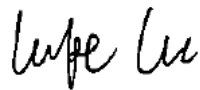
Report No. : SAHKO-W7L-P21030020  
Applicant : Hestan Smart Cooking Inc  
Address : 1 Meyer Plaza Vallejo, CA 94590 USA  
Product : Hestan Cue Smart Probe  
FCC ID : 2AYY4-41701  
Brand : Hestan Smart Cooking Inc.  
Model No. : 41701-C  
Standards : FCC 47 CFR Part 2 (2.1093) / IEEE C95.1:1992 / IEEE 1528:2013  
KDB 447498 D01 v06  
Sample Received Date : Mar. 01, 2021  
Date of Testing : Mar. 01, 2021 ~ Mar. 08, 2021

**CERTIFICATION:** The above equipment have been tested by **BV 7LAYERS COMMUNICATIONS TECHNOLOGY (SHENZHEN) CO. LTD.**, 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 SAR characteristics under the conditions specified in this report. It should not be reproduced except in full, without the written approval of our laboratory. The client should not use it to claim product certification, approval, or endorsement by A2LA or any government agencies.

Prepared By :

  
Jerry Chen / Engineer

Approved By :

  
Luke Lu / Manager



This report is governed by, and incorporates by reference, CPS Conditions of Service as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

## Table of Contents

|  |   |
|--|---|
| Release Control Record .....                               | 3 |
| 1. Description of Equipment Under Test .....               | 4 |
| 2. SAR Exemption Evaluation.....                           | 5 |
| 2.1 Maximum Tune-up Power (declared by manufacturer) ..... | 6 |
| 2.2 SAR Test Exclusion Thresholds .....                    | 6 |

## Release Control Record

| Report No.          | Reason for Change | Date Issued   |
|---------------------|-------------------|---------------|
| SAHKO-W7L-P21030020 | Initial release   | Mar. 26, 2021 |
|                     |                   |               |
|                     |                   |               |
|                     |                   |               |
|                     |                   |               |
|                     |                   |               |
|                     |                   |               |
|                     |                   |               |
|                     |                   |               |
|                     |                   |               |
|                     |                   |               |
|                     |                   |               |
|                     |                   |               |
|                     |                   |               |
|                     |                   |               |
|                     |                   |               |

## FCC SAR Test Report

### 1. Description of Equipment Under Test

|  |                           |
|--|---------------------------|
| EUT Type                                       | Hestan Cue Smart Probe    |
| FCC ID   | 2AYY4-41701               |
| Brand Name                                     | Hestan Smart Cooking Inc. |
| Model Name                                     | 41701-C                   |
| Tx Frequency Bands<br>(Unit: MHz)              | Bluetooth : 2402 ~ 2480   |
| Uplink Modulations                             | Bluetooth : GFSK          |
| Maximum Tune-up Conducted Power<br>(Unit: dBm) | Bluetooth : -2.5 dBm      |
| Antenna Type                                   | BT: PCB Antenna           |
| EUT Stage                                      | Production Unit           |

**Note:**

1. The above EUT information is declared by manufacturer and for more detailed features description please refers to the manufacturer's specifications or User's Manual.

## 2. SAR Exemption Evaluation

### Following FCC KDB 447498 D01 “General SAR test exclusion guidance”

The corresponding SAR Exclusion Threshold condition, listed below:

- 1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:  
$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$
  - $f(\text{GHz})$  is the RF channel transmit frequency in GHz
  - Power and distance are rounded to the nearest mW and mm before calculation
  - The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion.
- 2) At 100 MHz to 6 GHz and for test separation distances  $> 50$  mm, the SAR test exclusion threshold is determined according to the following:
  - a) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm) · ( $f(\text{MHz})/150$ )] mW, at 100 MHz to 1500 MHz
  - b) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm) · 10] mW at  $> 1500$  MHz and  $\leq 6$  GHz
- 3) At frequencies below 100 MHz, the following may be considered for SAR test exclusion.
  - a) The threshold at the corresponding test separation distance at 100 MHz in step 2) is multiplied by  $[1 + \log(100/f(\text{MHz}))]$  for test separation distances  $> 50$  mm and  $< 200$  mm.
  - b) The threshold determined by the equation in a) for 50 mm and 100 MHz is multiplied by  $\frac{1}{2}$  for test separation distances  $\leq 50$  mm.
  - c) SAR measurement procedures are not established below 100 MHz. When SAR test exclusion cannot be applied, a KDB inquiry is required to determine SAR evaluation requirements for any test results to be acceptable.

### Smallest distance from the antenna and radiating structures or outer surface of the device

The minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander.

## FCC SAR Test Report

### 2.1 Maximum Tune-up Power (declared by manufacturer)

| Mode | 2.4G Bluetooth |
|------|----------------|
| LE   | -2.5 dB        |

### 2.2 SAR Test Exclusion Thresholds

| Mode | Frequency (MHz) | Max. Tune-up Power (dBm) | Minimum separation distance (mm) | Calculated Result | Limit for 1-g SAR | Limit for 10-g extremity SAR | Verdict         |
|------|-----------------|--------------------------|----------------------------------|-------------------|-------------------|------------------------------|-----------------|
| BT   | 2480            | -2.5                     | 5                                | 0.18              | <b>3.0</b>        | 7.5                          | Exempt from SAR |

### Conclusion

According to the table above, the device can meet the SAR test exclusion thresholds requirement of FCC KDB 447498 D01 and SAR evaluation is not required.

Therefore this device complies with FCC's RF radiation exposure limits for general population without SAR evaluation.

-----END-----