

## RJ Brands LLC

# MPE ASSESSMENT REPORT

**Report Type:**

FCC Part §2.1091, §2.1093 and §1.1307(b) assessment report

**Model:**

CQ60-PR-01, CQ60-PR-02, CQ60-PR-03, CQ60-PR-04,  
CQ60-PR-05

**REPORT NUMBER:**

220302039SHA-002

**ISSUE DATE:**

May 30, 2022

**DOCUMENT CONTROL NUMBER:**

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**Applicant:** RJ Brands LLC  
200 Performance Drive, Mahwah, NJ 07495 USA

**Manufacturer:** Hzsamko Technologies Co., Ltd.  
No.8, Jiaqi Road, Xianlin Street, Yuhang District, Hangzhou, China.

**Product Name:** Smart Thermometer CHEF PROBE

**Type/Model:** CQ60-PR-01, CQ60-PR-02, CQ60-PR-03, CQ60-PR-04, CQ60-PR-05

**FCC ID:** 2A2YP-CQ60PROBE

**SUMMARY:**

The equipment complies with the requirements according to the following standard(s) or Specification:

KDB447498 D01 General RF Exposure Guidance v06  
FCC Part2.1091, FCC Part2.1093 FCC Part1.1307(b)

**PREPARED BY:**

Project Engineer  
Dylan Tang

**REVIEWED BY:**

Reviewer  
Wakeyou Wang

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## Revision History

Report No.	Version	Description	Issued Date
220302039SHA-002	Rev. 01	Initial issue of report	May 30, 2022

## 1 GENERAL INFORMATION

### 1.1 Description of Equipment Under Test (EUT)

Product name:	CHEF PROBE
Type/Model:	CQ60-PR-01, CQ60-PR-02, CQ60-PR-03, CQ60-PR-04, CQ60-PR-05
Description of EUT:	The EUT is CHEF PROBE, it supports Bluetooth function. The differences between CQ60-PR-01 CQ60-PR-02, CQ60-PR-03, CQ60-PR-04 and CQ60-PR-05 is that the decal number/color on the ceramic handle. The models PCB layout and circuit design is the same. so choose CQ60-PR-03 to test as representative.
Rating:	DC 3V, 0.03A
Category of EUT:	Class B
EUT type:	<input checked="" type="checkbox"/> Table top <input type="checkbox"/> Floor standing
Product Marketing Name:	CQ60-PR-01, CQ60-PR-02, CQ60-PR-03, CQ60-PR-04, CQ60-PR-05
HVIN:	CQ60-PR-01, CQ60-PR-02, CQ60-PR-03, CQ60-PR-04, CQ60-PR-05
Software Version:	0.5.3
Hardware Version:	H
Serial numbers:	0220601-17-001(for radiation sample), 0220601-17-002(for conduction sample)
Sample received date:	March 31, 2022
Date of test:	May 20, 2022 ~ May 30, 2022

### 1.2 Technical Specification

Frequency Range:	2402-2480MHz
Support Standards:	IEEE 802.15.1
Type of Modulation:	GFSK
Channel Number:	3
Data Rate:	1Mbps
Antenna Information:	-13.71dBi, Metal antenna

## TEST REPORT

### 1.3 Description of Test Facility

Name:	Intertek Testing Services Shanghai
Address:	Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China
Telephone:	86 21 61278200
Telefax:	86 21 54262353

The test facility is recognized, certified, or accredited by these organizations:	CNAS Accreditation Lab Registration No. CNAS L0139
	FCC Accredited Lab Designation Number: CN1175
	IC Registration Lab CAB identifier.: CN0051
	VCCI Registration Lab Registration No.: R-14243, G-10845, C-14723, T-12252
	A2LA Accreditation Lab Certificate Number: 3309.02

All tests were sub-contracted.

**Shenzhen UnionTrust Quality and Technology Co., Ltd.**

Address: Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng Science and Technology Park, Longhua District, Shenzhen, China 518109

Telephone: +86 (0) 755 2823 0888

Fax: +86 (0) 755 2823 0886

All tests were sub-contracted at Shenzhen UnionTrust Quality and Technology Co., Ltd, and conducted by Kieron Luo

Reviewed and approved by Wakeyou Wang from Intertek Testing Services Shanghai.

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**The test facility is recognized, certified, or accredited by the following organizations:**

Name:	Shenzhen UnionTrust Quality and Technology Co., Ltd.
Address:	Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and technology park, Longhua district, Shenzhen, China, China 518109
Telephone:	+86 (0) 755 2823 0888
Telefax:	+86 (0) 755 2823 0886

  

The test facility is recognized, certified, or accredited by these organizations:	CNAS Accreditation Lab Registration No. CNAS L9069
	FCC Accredited Lab Designation Number: CN1194
	IC Registration Lab CAB identifier.: CN0032
	A2LA Accreditation Lab Certificate Number: 4312.01

## 2 MPE Assessment

Test result: Pass

### 2.1 MPE Assessment Limit

Mobile device exposure for standalone operations:

Frequency range	E-field strength (V/m)	H-field strength (A/m)	B-field (uT)	Equivalent plane wave power density $S_{eq}$ (W/m <sup>2</sup> )
0-1 Hz	-	$3,2 \times 10^4$	$4 \times 10^4$	-
1-8 Hz	10 000	$3,2 \times 10^4/f^2$	$4 \times 10^4/f^2$	-
8-25 Hz	10 000	$4\,000/f$	$5\,000/f$	-
0,025-0,8 kHz	$250/f$	$4/f$	$5/f$	-
0,8-3 kHz	$250/f$	5	6,25	-
3-150 kHz	87	5	6,25	-
0,15-1 MHz	87	$0,73/f$	$0,92/f$	-
1-10 MHz	$87/f^{1/2}$	$0,73/f$	$0,92/f$	-
10-400 MHz	28	0,073	0,092	2
400-2 000 MHz	$1,375 f^{1/2}$	$0,0037 f^{1/2}$	$0,0046 f^{1/2}$	$f/200$
2-300 GHz	61	0,16	0,20	10

Mobile device exposure for simultaneous transmission operations: **the sum of the MPE ratios for all simultaneously transmitting antennas incorporated in a host device is  $\leq 1.0$**

## TEST REPORT

### 2.2 Assessment Results

Power density (S) is calculated according to the formula:

$$S = PG / (4\pi R^2)$$

Where S = power density in mW/cm<sup>2</sup>

P = Radiated transmit power in mW

G = numeric gain of transmit antenna

R = distance (cm)

As we can see from the test report: 220302039SHA-001.

The calculations in the table below use the highest gain of antenna for client EUT. These calculations represent worst case in terms of the exposure levels.

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Frequency band	Power		Antenna Gain	R	S	Limits
(MHz)	dBm	mW	dBi	(cm)	(mW/cm <sup>2</sup> )	(mW/cm <sup>2</sup> )
2402 – 2480	-8.02	0.16	-13.71	20	0.00002	1

Note: 1 mW/cm<sup>2</sup> from 1.310 Table 1.



## Appendix I

Definition below must be outlined in the User Manual:

To satisfy FCC RF exposure requirements, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during device operation.  
To ensure compliance, operations at closer than this distance is not recommended.

\*\*\*\*\*END\*\*\*\*\*