

# **RJ Brands LLC**

# **MPE ASSESSMENT REPORT**

### **Report Type:**

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

### Model:

CQ60-PRC-01, CQ60-PRC-02, CQ60-PRC-03, CQ60-PRC-04

### **REPORT NUMBER:**

2410B1270SHA-002

### **ISSUE DATE:**

December 5, 2024

### **DOCUMENT CONTROL NUMBER:**

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Report no.: 2410B1270SHA-002

**Applicant:** RJ Brands LLC

200 Performance Drive, Mahwah, NJ 07495 USA

Manufacturer: RJ Brands LLC

200 Performance Drive, Mahwah, NJ 07495 USA

Manufacturer Site: Chefman Smart Tech (Hangzhou) Co., Ltd

Dalu Industrial Park, Hangzhou City, Zhejiang Province

**Product Name:** Smart Thermometer CHEF PROBE

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

FCC ID: 2A2YP-CQ60QPROBE

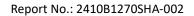
#### **SUMMARY:**

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:	REVIEWED BY:	
Tylan tany	Wakeyou	
Project Engineer	Reviewer	
Dylan Tang	Wakeyou Wang	

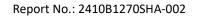
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# **Revision History**

Report No.	Version	Description	Issued Date	
2410B1270SHA-002	Rev. 01	Initial issue of report	December 5, 2024	





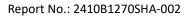
### **1 GENERAL INFORMATION**

# 1.1 Description of Equipment Under Test (EUT)

Product name:	Smart Thermometer CHEF PROBE	
Type/Model:	CQ60-PRC-01, CQ60-PRC-02, CQ60-PRC-03, CQ60-PRC-04	
Description of EUT:	The EUT is Smart Thermometer CHEF PROBE, it supports Bluetooth function. The differences between CQ60-PRC-01, CQ60-PRC-02, CQ60-PRC-03 and CQ60-PRC-04 is that the decal number/color on the ceramic handle. The models PCB layout and circuit design is the same. So choose CQ60-PRC-01 to test as representative.	
Rating:	DC 3V, 0.03A	
Category of EUT:	Class B	
EUT type:	☐ Table top ☐ Floor standing	
Product Marketing Name:	CQ60-PRC-01, CQ60-PRC-02, CQ60-PRC-03, CQ60-PRC-04	
HVIN:	CQ60-PRC-01, CQ60-PRC-02, CQ60-PRC-03, CQ60-PRC-04	
Software Version:	V2.0.0	
Hardware Version:	В	
Sample received date:	November 10, 2024	
Date of test:	November 10, 2024 ~ December 2, 2024	

### 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

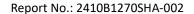




# 1.3 Description of Test Facility

Name:	Intertek Testing Services (Shanghai FTZ) Co., Ltd.
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	CNAS Accreditation Lab
recognized,	Registration No. CNAS L21189
certified, or accredited by these organizations:	FCC Accredited Lab Designation Number: CN0175
618am2ations	IC Registration Lab CAB identifier.: CN0014
	VCCI Registration Lab Registration No.: R-4243, G-845, C-4723, T-2252
	NVLAP Accreditation Lab NVLAP LAB CODE: 200849-0
	A2LA Accreditation Lab Certificate Number: 3309.02





### 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  Seq (W/m²)
0-1 Hz	-	3,2 × 10 <sup>4</sup>	4 × 10 <sup>4</sup>	-
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 <sup>1/2</sup>	0,73/f	0,92/f	-
10-400 MHz	28	0,073	0,092	2
400-2 000 MHz	1,375 f <sup>1/2</sup>	0,0037 f <sup>1/2</sup>	0,0046 f <sup>1/2</sup>	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  $S = power density in mW/cm^2$ 

P = Radiated transmit power in mW

G = numeric gain of transmit antenna

R = distance (cm)

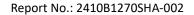
As we can see from the test report: 2410B1270SHA-001.

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	Pov	wer	Antenna Gain		R	S	Limits
(MHz)	dBm	mW	dBi	(Numeric)	(cm)	(mW/cm2)	(mW/cm2)
2402 – 2480	-12.24	0.06	-13.71	0.043	20	0.0000005	1

Note: 1 mW/cm2 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.