

ZHEJIANG AISEN ELECTRIC APPLIANCE CO., LTD

SAR COMPLIANCE REPORT

Report Type:

FCC SAR assessment report

Model:

CRN-BT

REPORT NUMBER:

240900115HAN-002

ISSUE DATE:

March 10, 2025

DOCUMENT CONTROL NUMBER:

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Applicant: ZHEJIANG AISEN ELECTRIC APPLIANCE CO., LTD
FENGHUANGSHAN INDUSTRIAL DISTRICT, TONGQIN TOWN, WUYI,
ZHEJIANG, CHINA

Manufacturer: Same As Applicant

Manufacturing Site: Same As Applicant

Product Name: Crown Sound

Type/Model: CRN-BT

FCC ID: 2BH7P-CRNBT

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:**

Project Engineer

Alex Wu

Reviewer

Wakeyou Wang

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Revision History

Report No.	Version	Description	Issued Date
240900115HAN-002	Rev. 01	Initial issue of report	March 10, 2025

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	Crown Sound
Type/Model/PMN/HVIN:	CRN-BT
Description of EUT:	The EUT is a Crown Sound which is powered by adaptor. We test it and the worst testing data is listed in the report as representative.
Brand name	/
Rating:	Powered by adaptor: 5VDC For adaptor input: 100-240V~, 50/60Hz, Output:5VDC, Max. 3A
Category of EUT:	Class B
EUT type:	☒ Table top ☐ Floor standing
Software Version:	/
Hardware Version:	/
Sample Identification No.:	1241023-18-002
Sample received date:	2025.01.08
Date of test:	2025.02.18~2025.02.21

1.2 Technical Specification

Frequency Range:	2400MHz ~ 2483.5MHz
Support Standards:	Bluetooth 5.0
Modulation Technique:	Frequency Hopping Spread Spectrum (FHSS)
Type of Modulation:	GFSK, $\pi/4$ DQPSK, 8DPSK
Channel Number:	79 (0 - 78)
Data Rate:	Max 3 Mbps
Channel Separation:	1 MHz
Antenna:	1.0dBi, PCB antenna

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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 recognized, certified, or accredited by these organizations:	CNAS Accreditation Lab Registration No. CNAS L21189
	FCC Accredited Lab Designation Number: CN0175
	IC Registration Lab CAB identifier.: CN0014
	VCCI Registration Lab Member No: 3598 (Registration No.: R-14243, G-10845, C-14723, T-12252)
	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 S_{eq} (W/m ²)
0-1 Hz	-	$3,2 \times 10^4$	4×10^4	-
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 ≤ 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/cm²

P = Radiated transmit power in mW

G = numeric gain of transmit antenna

R = distance (cm)

As we can see from the test report 240900115HAN-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.

Mode	Frequency band	Max Power	Antenna Gain	R	S	Limits
	(MHz)	dBm	dBi	(cm)	(mW/cm ²)	(mW/cm ²)
WIFI	2400-2483.5	4.00	1.0	20	0.0005	1

Note: 1 mW/cm² from 1.310 Table 1

Therefore, the MPE requirement is deemed to be satisfied without test.

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 closer than this distance are not recommended.

***** END *****