

# Aspen Appliance Inc.

## SAR COMPLIANCE REPORT

**Report Type:**

FCC SAR assessment report

**Model:**

TF4001-YK

**REPORT NUMBER**

221201607SHA-002

**ISSUE DATE**

May 15, 2023

**DOCUMENT CONTROL NUMBER:**

TTRFFCCSAR-01\_V1 © 2018 Intertek



## TEST REPORT

**Applicant:** Aspen Appliance Inc.  
155 N. Riverview Dr. #100, Anaheim, CA 92808 USA

**Manufacturer:** Chuzhou Donlim Electrical Appliance Co., Ltd  
No.17777, Yangzi East Road, Chuzhou City, Anhui Province, China

**Factory:** Chuzhou Donlim Electrical Appliance Co., Ltd  
No.17777, Yangzi East Road, Chuzhou City, Anhui Province, China

**FCC ID:** 2A6AP-ASTF-A40-A

## SUMMARY:

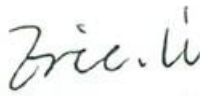
The equipment complies with the requirements according to the following standard(s) or Specification:

KDB447498 D04 Interim General RF Exposure Guidance v01  
FCC Part2.1091, FCC Part2.1093 FCC Part1.1307(b)

## PREPARED BY:

## REVIEWED BY:

Scout Gong  
Project Engineer

  
Eric Li  
Reviewer

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## Revision History

Report No.	Version	Description	Issued Date
221201607SHA-002	Rev. 01	Initial issue of report	May 15, 2023

## TEST REPORT

### 1 GENERAL INFORMATION

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

Product name:	Remote control
Type/Model:	TF4001-YK
Description of EUT:	The product is a remote control for aspen tower fan. It works at 433.92MHz Frequency, there is only one model, we test it and list the results in this report.
Rating:	3V lithium battery
Category of EUT:	Class B
EUT type:	<input checked="" type="checkbox"/> Table top <input type="checkbox"/> Floor standing
Software Version:	/
Hardware Version:	/
Sample Identification No.:	0230105-16-001
Sample received date:	January 05, 2023
Date of test:	January 05, 2023, to February 23, 2023

#### 1.2 Technical Specification

Operation Frequency:	433.92MHz
Type of Modulation:	ASK
Product Type:	<input type="checkbox"/> Mobile <input checked="" type="checkbox"/> Portable <input type="checkbox"/> Fix Location
Channel Number:	1
Antenna Designation:	PCB 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: 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

## TEST REPORT

## 2 SAR Assessment

Test result: Pass

### 2.1 SAR Test Exclusion Limit

This method shall only be used at separation distances up to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive).  $P_{th}$  is given by Formula below:

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

$$x = -\log_{10} \left( \frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

$f$  is in GHz,  $d$  is the separation distance (cm), and  $ERP_{20 \text{ cm}}$  is per Formula above.

The example values shown in below are for illustration only.

	Distance (mm)										
		5	10	15	20	25	30	35	40	45	50
Frequency (MHz)	300	39	65	88	110	129	148	166	184	201	217
	450	22	44	67	89	112	135	158	180	203	226
	835	9	25	44	66	90	116	145	175	207	240
	1900	3	12	26	44	66	92	122	157	195	236
	2450	3	10	22	38	59	83	111	143	179	219
	3600	2	8	18	32	49	71	96	125	158	195
	5800	1	6	14	25	40	58	80	106	136	169

### 2.2 Assessment Results

As we can see from the test report 221201607SHA-001:

The highest EIRP adjusted with tune-up tolerance is:  $69.90 - 95.30 = -25.40 \text{ dBm} = 0.0029 \text{ mW}$ .  
 $0.0029 \text{ mW} < 22 \text{ mW}$  (Test Exclusion Thresholds of 450MHz at 5mm). Therefore, the SAR requirement is deemed to be satisfied without test.

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