

Guangdong Hailea Group Co., Ltd.

SAR COMPLIANCE REPORT

Report Type:

FCC SAR assessment report

Model:

45041

REPORT NUMBER:

220302634SHA-002

ISSUE DATE:

Aug 17, 2022

DOCUMENT CONTROL NUMBER:

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Report no.: 220302634SHA-002

Applicant: Guangdong Hailea Group Co., Ltd.

Hailea Industrial Zone, Hailea Road, Raoping County, Chaozhou,

Guangdong Province 515700, China.

Manufacturer: Guangdong Hailea Group Co., Ltd.

Hailea Industrial Zone, Hailea Road, Raoping County, Chaozhou,

Guangdong Province 515700, China.

PRODUCT NAME: Universal Remote for Adjustable Flow Pumps

TYPE/MODEL: 45041

FCC ID: 2AVM6-45041

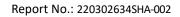
SUMMARY:

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

KDB447498 D01 General RF Exposure Guidance v07 FCC Part2.1091, FCC Part2.1093 FCC Part1.1307(b)

PREPARED BY:	REVIEWED BY:					
Scout Gong	Wakeyou Wang					
Project Engineer	Reviewer					

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Revision History

Report No.	Version	Description	Issued Date		
220302634SHA-002	Rev. 01	Initial issue of report	Aug 17, 2022		





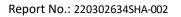
1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	Universal Remote for Adjustable Flow Pumps
Type/Model:	45041
Description of EUT:	The product covered by this report is a remote control for adjustable flow pumps. It works at 315MHz Frequency, there is only one model, we test it and list the worst results in this report.
Rating:	DC 23A, 12V
Category of EUT:	Class B
EUT type:	☐ Table top ☐ Floor standing
Software Version:	/
Hardware Version:	/
Sample received date:	July 22, 2022
Date of test:	July 23, 2022~August 10, 2022

1.2 Technical Specification

Operation Frequency:	315MHz				
Type of Modulation:	ASK				
	Mobile				
	Nortable Portable				
Product Type:	Fix Location				
Channel Number:	1				
Antenna Designation:	Integral PCB antenna				
Gain of Antenna:	OdBi				





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.: CN0014			
	VCCI Registration Lab Registration No.: R-14243, G-10845, C-14723, T-12252			
	A2LA Accreditation Lab Certificate Number: 3309.02			



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). Pth is given by Formula below:

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

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

f is in GHz, d is the separation distance (cm), and ERP_{20cm} 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
(7	300	39	65	88	110	129	148	166	184	201	217
(MHz)	450	22	44	67	89	112	135	158	180	203	226
	835	9	25	44	66	90	116	145	175	207	240
Frequency	1900	3	12	26	44	66	92	122	157	195	236
F	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

The highest EIRP adjusted with tune-up tolerance is 76.40-95.30 = -18.90dBm = 0.0128mW < 27mW (Test Exclusion Thresholds of 300MHz at 5mm). Therefore, the SAR requirement is deemed to be satisfied without test.