RF EXPOSURE REPORT

Report No.: DDT-B21090104-2E20

Applicant	**:**	Powervision Tech Inc.
Address	**:**	Zone E,Ocean Venture Valley,No.40, Yangguang Rd, Nanhai new District,Weihai,Shandong,China
Equipment under Test	**:**	PowerVision S1
Model No.	**:**	PVS10
Trade Mark	**:**	PowerVision
FCC ID	**:**	2AKBMPVS11
Manufacturer	**:**	Powervision Tech Inc.
Address	**:**	Zone E,Ocean Venture Valley,No.40, Yangguang Rd, Nanhai new District,Weihai,Shandong,China

Issued By: Tianjin Dongdian Testing Service Co., Ltd.

Address: Building D-1, No. 19, Weisi Road, Microelectronics Industrial Park Development Area, Tianjin, China.

Tel: +86-22-58038083, E-mail: ddt@dgddt.com, http://www.ddttest.com

REPORT

TABLE OF CONTENTS

TEST REPORT DECLARE

Applicant	:	Powervision Tech Inc.
Address	:	Zone E,Ocean Venture Valley,No.40, Yangguang Rd, Nanhai new District,Weihai,Shandong,China
Equipment under Test	:	PowerVision S1
Model No.	:	PVS10
Trade mark	:	PowerVision
Manufacturer	:	Powervision Tech Inc.
Address	:	Zone E,Ocean Venture Valley,No.40, Yangguang Rd, Nanhai new District,Weihai,Shandong,China

Standard Used: KDB447498 D01 General RF Exposure Guidance v06

We Declare:

The equipment described above is assessed by Tianjin Dongdian Testing Service Co., Ltd and in the configuration assessed the equipment complied with the standards specified above. The assessed results are contained in this report and Tianjin Dongdian Testing Service Co., Ltd is assumed of full responsibility for the accuracy and completeness of these assess.

After evaluation, our opinion is that the equipment In Accordance with above standard.

Report No:	DDT-B21090104-2E19		
Date of Receipt:	Sep. 01, 2021	**Date of Test:**	Sep. 01, 2021 ~ Oct. 08, 2021

Prepared By:

Sunny Zhang

Sunny Zhang/Engineer

Approved By:

Aaron Zhang

Aaron Zhang/EMC Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Tianjin Dongdian Testing Service Co., Ltd.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

Revision history

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	Oct. 08, 2021	

1. General information

1.1. Description of Equipment

Eut* Name	:	PowerVision S1
Model Number	:	PVS10
EUT Function Description	:	Please refer to user manual of this device
Power Supply	:	DC 15.4V Polymer Li-ion built-in battery
Hardware Version	:	V11.02.03
Software Version	:	V1.5.3
Radio Specification	:	Bluetooth V5.0
Operation Frequency	:	2402 MHz - 2480 MHz
Modulation	:	GFSK
Data Rate	:	1 Mbps, 2 Mbps
Antenna Type	:	PCB antenna, maximum PK gain: 1.0 dBi
Serial number	:	N/A

1.2. Assess laboratory

Tianjin Dongdian Testing Service Co., Ltd.
Address: Building D-1, No. 19, Weisi Road, Microelectronics Industrial Park Development Area, Tianjin, China.
Tel: +86-22-58038033, http://www.ddttest.com, Email: ddt@dgddt.com
NVLAP (National Voluntary Laboratory Accreditation Program) CODE: 500036-0
CNAS (China National Accreditation Service for Conformity Assessment) CODE: L13402
FCC Designation Number: CN5004; FCC Test Firm Registration Number: 368676
ISED (Innovation, Science and Economic Development Canada) Company Number: 27768
Conformity Assessment Body Identifier: CN0125
VCCI Facility Registration Number: C-20089, T-20093, R-20125, G-20122

2. RF Exposure evaluation for FCC

According to 447498 D01 General RF Exposure Guidance v06

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] ·[√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where:

f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation

The result is rounded to one decimal place for comparison

Manufacturing Tolerance

BLE 1M (Peak)			
Channel	Channel 1	Channel 3	Channel 16
Target (dBm)	4	4	4
Tolerance ±(dB)	1	1	1

BLE 2M (Peak)			
Channel	Channel 1	Channel 3	Channel 16
Target (dBm)	4	4	4
Tolerance ±(dB)	1	1	1

Worse case is as below: [2480MHz, 5 dBm, 3.16 mW) output power]

(3.16/5) ·[√2.480(GHz)] =0.995<3.0 for 1-g SAR

Then SAR evaluation is not required

END OF REPORT