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# RF Exposure Evaluation Report

Product : Open Frame Trade mark : OUTFORM

UIO0421B-C02, UIO0418X-XYY, UIO0424X-XYY, UIO0421X-XYY, The 1st X is "A" or "B"

**Model/Type reference** : represents the agent or the client; The 2nd X

is A-Z represents the color; YY is client

number from "01" to "90"

Serial Number : N/A

Report Number : EED32L00017403

**FCC ID** : 2AO9X-UIO0421BC02

Date of Issue : May 14, 2019

Test Standards : 47 CFR Part 1.1307

47 CFR Part 1.1310 KDB447498D01v06

Test result : PASS

#### Prepared for:

Outform Science and Technology Ltd.
No. A103 Medical Appliance and Industry Garden, #1019, Nanhai Road.
Nanshan district ,Shenzhen 518035 China

Prepared by:

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2 Version

Version No.	Date	Description				
00 May 14, 2019			Original			
7		130		(3)		
	95)	(6)	(6)	0		

















































































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# 4 General Information

#### 4.1 Client Information

Applicant:	Outform Science and Technology Ltd.				
Address of Applicant:	No. A103 Medical Appliance and Industry Garden, #1019, Nanhai Road. Nanshan district ,Shenzhen 518035 China				
Manufacturer:	Outform Science and Technology Ltd.				
Address of Manufacturer:	No. A103 Medical Appliance and Industry Garden, #1019, Nanhai Road. Nanshan district ,Shenzhen 518035 China				
Factory:	Outform Science and Technology Ltd.				
Address of Factory:	No. A103 Medical Appliance and Industry Garden, #1019, Nanhai Road. Nanshan district ,Shenzhen 518035 China				

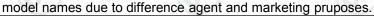
## 4.2 General Description of EUT

Product Name:	Open Frame				
Model No.(EUT):	UIO0421B-C02,UIO0418X-XYY, UIO0424X-XYY, UIO0421X-XYY,The 1st X is "A" or "B" represents the agent or the client; The 2nd X is A-Z represents the color; YY is client number from "01" to "90"				
Test Model No.:	UIO0421B-C02				
Trade Mark:	OUTFORM				
EUT Supports Radios application	BT: 4.0 BT single mode, 2402MHz to 2480MHz WiFi: IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz				

# 4.3 Product Specification subjective to this standard

Frequency Range:	BT: 4.0 BT single mode, 2402MHz to 2480MHz WiFi: IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz				
Modulation Type:	BT: GFSK WiFi:802.11b, 802.11g ,802.11n(20MHz)				
Antenna Type:	omnidirection	nal antenna			
Antenna Gain:	5dBi				
Power Supply:	Adapter	Model: EA10681U-120 Input: 100-240VAC~2.0A, 50~60Hz Output: 12V6A			
Conduct Peak Power:	15.56dBm  The Conduct Peak Power data refer to the report EED32L00017401, EED32L00017402				
Sample Received Date:	Jan. 24, 201	9			
Sample tested Date:	May 08, 2019 to May 09, 2019				

The tested sample(s) and the sample information are provided by the client. Model No.:UIO0418X-XYY, UIO0424X-XYY, UIO0421X-XYY, The 1st X is "A" or "B" represents the agent or the client; The 2nd X is A-Z represents the color; YY is client number from "01" to "90" Only the model UIO0418X-XYY was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being the color and













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### 4.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted. FCC Designation No.: CN1164

#### 4.5 Deviation from Standards

None.

#### 4.6 Abnormalities from Standard Conditions

None.

# 4.7 Other Information Requested by the Customer

None.















































































# 5 RF Exposure Evaluation

# 5.1 RF Exposure Compliance Requirement

#### **5.1.1 Limits**

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(b)

TABLE 1-LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
(A) Lim	its for Occupational	/Controlled Exposure	es	
0.3–3.0	614 1842/f	1.63 4.89/f	*(100) *(900/f²)	6
30–300	61.4	0.163	1.0 f/300	6
1500-100,000			5	6
(B) Limits	for General Populati	on/Uncontrolled Exp	osure	
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f <sup>2</sup> )	30
30–300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30

A rough estimation of the expected exposure in power flux density on a given point can be made with the following equation:

$$S = \frac{P \times G}{4 \times \pi \times R^2}$$

Where:

S = power density

P = power input to the antenna

G = numeric gain of the antenna in the direction of interest relative to an isotropic radiator

R= distance to the centre of radiation of the antenna

EIRP = P\*G

The antenna of the product, under normal use condition is at least 20 cm away from the body of the user. Warning statement to the user for keeping at least 20cm separation distance and the prohibition of operating to a person has been printed on the user's manual. Therefore, the S of the device is calculated with R=20cm, and if it is below the limit S, then we can conclude the device complies with the rules.

#### 5.1.2 Test Procedure

Software provided by client enabled the EUT to transmit data at lowest, middle and highest channel individually.











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## 5.1.3 EUT RF Exposure Evaluation

Antenna Gain: 2dBi

Output Power Into Antenna & RF Exposure Evaluation Distance:

Channe	Frequency (MHz)	Max Conducted Peak Output Power(dBm)	Gain (dBi)	EIRP* (dBm)	EIRP (mW)	R (cm)	S (mW/cm²)	Limit (mW/cm²)	Result
Highes	t 2462	15.56	5	20.56	113.76	20	0.023	1.0	Pass

**Note:** Refer to report No. EEED32L00017401, EED32L00017402 for EUT test Max Conducted Peak Output Power value.









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## **PHOTOGRAPHS OF EUT Constructional Details**

Refer to Report No. EED32L00017401 for EUT external and internal photos.

\*\*\* End of Report \*\*\*

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