



RF Exposure Evaluation Report

- **OF2006-CONTROL CENTER**
- OUTFORM

UM101734

- £. N/A
- EED32K00200202 2
 - 2AO9X-UM101734
 - Aug. 24, 2018
- 47 CFR Part 1.1307 47 CFR Part 1.1310 KDB447498D01v06

Test result

Product

FCC ID

Trade mark

Serial Number

Report Number

Date of Issue

Test Standards

Model/Type reference

Prepared for:

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

PASS

Prepared by: Centre Testing International Group Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China TEL: +86-755-3368 3668 FAX: +86-755-3368 3385

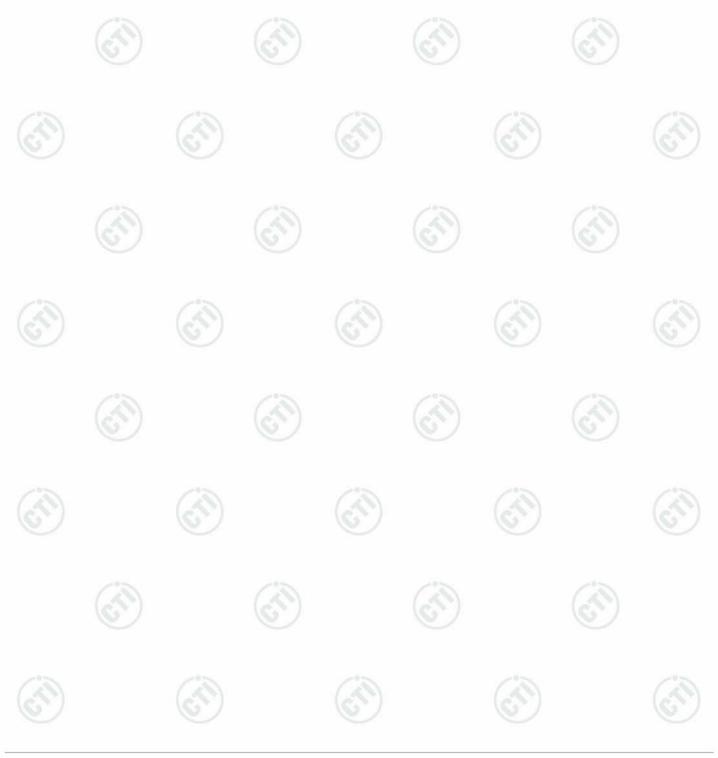
Tested By: Compiled by: 10M- cher even Nan Tom chen (Test Project) Kevin Lan (Project Engineer) Approved by Reviewed by: Reum Sheek Luo (Lab supervisor) Kevin yang (Reviewer) Aug. 24, 2018 Date: Check No.: 3096370718 Report Seal



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4 General Information

4.1 Client Information

Applicant:	Outform Science and Technology Ltd.No. A103 Medical Appliance and Industry Garden, #1019, Nanhai road, Nanshan district, Shenzhen, China, 518035				
Address of Applicant:					
Manufacturer:	Outform Science & Technology (Shenzhen) Co., Ltd				
Address of Manufacturer:	 Room A103 and A105-1, Nanshan Medical Instrument Industry Park, No. 1019, Nanhai Avenue, Nanshan District Shenzhen, China. Outform Science & Technology (Shenzhen) Co., Ltd 				
Factory:					
Address of Factory:	Room A103 and A105-1, Nanshan Medical Instrument Industry Park, No. 1019, Nanhai Avenue, Nanshan District Shenzhen, China.				

4.2 General Description of EUT

Product Name:	OF2006-CONTROL CENTER		63
Model No.(EUT):	UM101734	(\mathcal{C})	0
Trade Mark:	OUTFORM	\sim	\sim
EUT Supports Radios application	WiFi 802.11b/g/n(HT20): 2412MHz	z to 2462MHz	

4.3 Product Specification subjective to this standard

Frequency Range:	WiFi 802.11b/g/n(HT20): 2412MHz to 2462MHz				
Modulation Type:	DSSS,OFDM				
Test Power Grade:	N/A (manufacturer declare)	13			
Test Software of EUT:	RFTestTool (manufacturer declare)	6			
Antenna Type:	Dipole Antenna	C			
Antenna Gain:	2.0dBi				
Power Supply:	AC 120V, 60Hz				
Canduated Deals Output	21.41dBm				
Conducted Peak Output Power:	The Conducted Peak Output Power data refer to the report EED32K00200201				
Sample Received Date:	Aug. 7, 2018				
Sample tested Date:	Aug. 7, 2018 to Aug. 24, 2018	13			
The tested sample(s) and t	he sample information are provided by the client.	(2)			

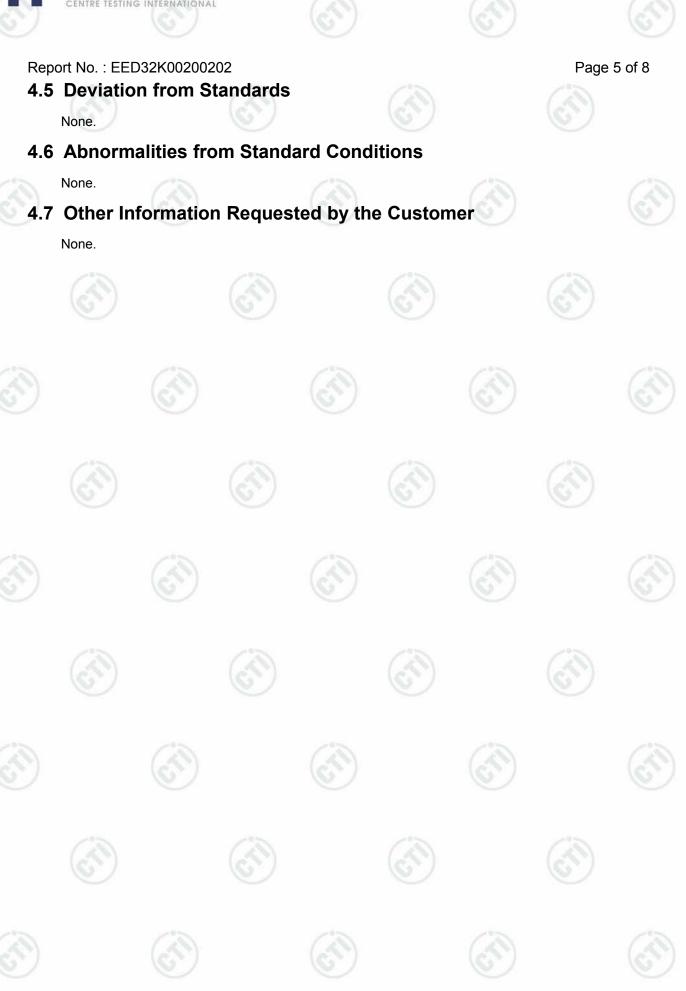
4.4 Test Location

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







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RF Exposure Evaluation



5.1 RF Exposure Compliance Requirement

5.1.1 Limits

5

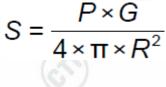
According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(b)

TABLE 1-LIMITS FO	r Maximum	PERMISSIBLE	EXPOSURE	(MPE)
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strength (V/m)	strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
or Occupational	Controlled Exposure	es	
614	1.63	*(100)	6
1842/f	4.89/f	*(900/f2)	6
61.4	0.163	1.0	6
100000		f/300	6
		5	6
General Populati	on/Uncontrolled Exp	osure	
614	1.63	*(100)	30
	(V/m) for Occupational 614 1842/f 61.4 General Populati	(V/m) (A/m) for Occupational/Controlled Exposure 614 1842/f 61.4 1842/f 61.4 0.163 General Population/Uncontrolled Exp 614 1.63	(V/m) (A/m) (INW/CITI-) for Occupational/Controlled Exposures 614 1.63 *(100) 1842/f 4.89/f *(900/f2) 1.0 61.4 0.163 1.0 1/300 5 5 5 5 General Population/Uncontrolled Exposures *(100) 5

0.3-1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f ²)	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:



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

R= distance to the centre of radiation of the antenna

radiator

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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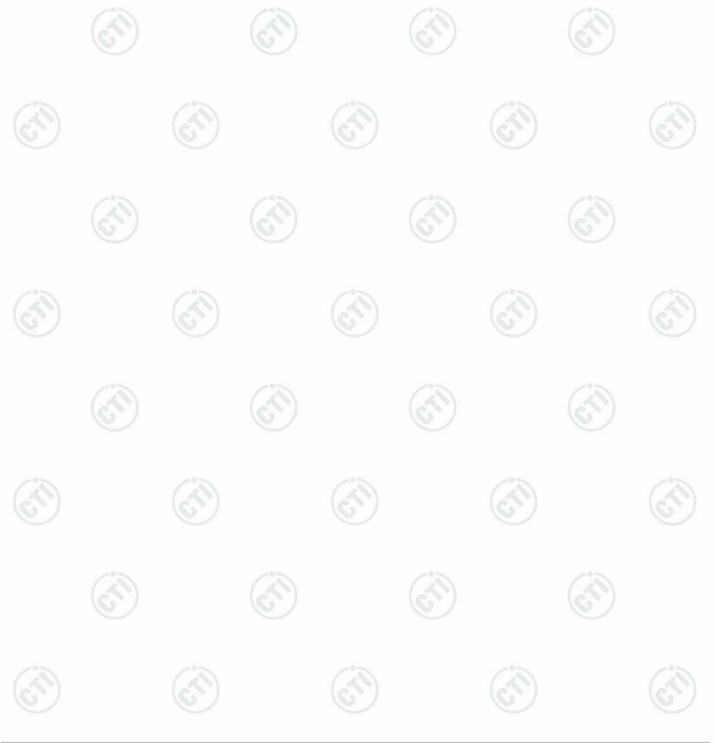
5.1.3 EUT RF Exposure Evaluation

Antenna Gain: 2dBi

Output Power Into Antenna & RF Exposure Evaluation Distance:

a	Channel	Frequency (MHz)	Max Conducted Peak Output Power(dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	R (cm)	S (mW/cm²)	Limit (mW/cm²)	Result
Q	Lowest	2412	21.41	2	23.41	219.28	20	0.044	1.0	Pass

Note: Refer to report No. EED32K00200201 for EUT test Max Conducted Peak Output Power value.





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PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32K00200201 for EUT external and internal photos.

*** End of Report ***

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