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RF Exposure Evaluation Report

Product **Trade mark** Model/Type reference **Serial Number** N/A : **Report Number** FCC ID Date of Issue **Test Standards**

Test result

- **Pulse Oximeter**
- JUMPER
- : JPD-500G, JPD-500H
- : EED32K00143402
- : 2ADYL-JPD500G
- Aug. 01, 2018
- 47 CFR Part 1.1307 47 CFR Part 2.1093 KDB 447498 D01v06
- PASS

Prepared for:

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4 General Information

4.1 Client Information

Applicant:	Shenzhen Jumper Medical Equipment Co., Ltd	
Address of Applicant:	D Building, No. 71, Xintian Road, Fuyong Street, Baoan, Shenzhen, Guangdong, China	
Manufacturer:	Shenzhen Jumper Medical Equipment Co., Ltd	
Address of Manufacturer:	D Building, No. 71, Xintian Road, Fuyong Street, Baoan, Shenzhen, Guangdong, China	
Factory:	Shenzhen Jumper Medical Equipment Co., Ltd	
Address of Factory:	D Building, No. 71, Xintian Road, Fuyong Street, Baoan, Shenzhen, Guangdong, China	

4.2 General Description of EUT

Product Name:	Pulse Oximeter			12
Model No.(EUT):	JPD-500G, JPD-500H	(\mathbb{C}^{n})		G
Test Model No.:	JPD-500G	\smile		
Trade mark:	JUMPER			
EUT Supports Radios application:	BT 4.2 Single mode, 2402-2480MHz			
Hardware Version of the sample:	V2.1(manufacturer declare)		S	
Firmware version of the sample:	JPD_500G_BT(manufacturer declare)			

4.3 Product Specification subjective to this standard

Operation Frequency:	2402MHz~2480MHz	C.
Bluetooth Version:	4.2	
Modulation Technique:	DSSS	25
Number of Channel:	40	(\mathcal{A})
Test Power Grade:	N/A(manufacturer declare)	S
Test Software of EUT:	nRFgo Studio(manufacturer declare)	
Antenna Type:	PCB Antenna	
Antenna Gain:	0dBi	(A
Power Supply:	Battery: 2x1.5V(AAA)=3.0V	6
	-3.695dBm	
Power:	The Conducted Peak Output Power data refer to EED32K00143401	o the report
Sample Received Date:	Jun. 8, 2018	
Sample tested Date:	Jun. 8, 2018 to Aug. 1, 2018	O
The tested sample(s) and t	he sample information are provided by the client.	
Model No.: JPD-500G, JPI	D-500H	vout components used
and internal wiring were id	entical for the above models, with difference being	appearance and model
name.	(63)	C.







5 SAR Evaluation

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5.1 RF Exposure Compliance Requirement

5.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

5.1.2 Limits

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

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] \cdot [\sqrt{f} (GHz)] \leq 3.0 for 1-g SAR and \leq 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 calculation¹⁷ The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

5.1.3 EUT RF Exposure

The Max Conducted Peak Output Power is -3.695dBm in highest channel(2.480GHz);

The best case gain of the antenna is 0dBi.

EIRP= -3.695dBm + 0dBi = -3.695dBm

-3.695dBm logarithmic terms convert to numeric result is nearly 0.43mW

According to the formula. calculate the EIRP test result:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}]$

(2):

General RF Exposure = (0.43mW / 5 mm) x $\sqrt{2.480}$ GHz = 0.14 (1)

SAR requirement:

S= 3.0

1 < 2.

So the SAR report is not required.





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Report No. : EED32K00143402 Page 7 of 7 PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32K00143401 for EUT external and internal photos.



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