

Report No.: EED32N81413702 Page 1 of 8

RF Exposure Evaluation Report

Product : Electronic smart key

Trade mark : N/A

Model/Type reference : S0-62

Serial Number : N/A

Report Number : EED32N81413702

FCC ID : 2A5DH-ST-62

Date of Issue : May 24, 2022

Test Standards : 47 CFR Part 1.1307

47 CFR Part 2.1093

KDB447498D01 General
RF Exposure Guidance v06

Test result : PASS

Prepared for:

FinDreams Technology Company Limited NO.3001~3009, Hengping Road, Pingshan New District, Shenzhen, Guangdong, P.R.China

Prepared by:

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Version

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Report No.:EED32N81413702



Contents

						Page
				•••••		
3.1 CLIE 3.2 GENE 3.3 TEST 3.4 DEVI 3.5 ABNO	NT INFORM ERAL DESC LOCATION IATION FRO	MATION CRIPTION OF EUNOM STANDARDS SFROM STAND	JTs.	DNS		
				•••••		
4.1.1 4.1.2	Standard EUT RF	l Requiremen Exposure	t	AL DETAILS	 	



Report No.:EED32N81413702 Page 4 of 8

3 General Information

3.1 Client Information

Applicant:	FinDreams Technology Company Limited			
Address of Applicant:	NO.3001~3009, Hengping Road, Pingshan New District, Shenzhen, Guangdong, P.R.China	30		
Manufacturer:	FinDreams Technology Company Limited			
Address of Manufacturer:	NO.3001~3009, Hengping Road, Pingshan New District, Shenzhen, Guangdong, P.R.China			
Factory:	FinDreams Technology Company Limited			
Address of Factory:	NO.3001~3009, Hengping Road, Pingshan New District, Shenzhen, Guangdong, P.R.China			

3.2 General Description of EUT

Product Name:	Electronic sr	mart key				
Model No.:	S0-62	(6,7,2)		(6,2,2)		(6,7)
Trade Mark:	N/A					
Product Type:	☐ Mobile	□ Portable	☐ Fix Location	on		
Frequency Range:	433.62MHz		(%)		-05	
Modulation Type:	FSK		(27)		(27)	
Number of Channels:	1					
Antenna Type:	Internal ante	nna				
Antenna Gain:	-18dBi					
Power Supply:	Battery	Model:CR2	2032			
	Battory	DC 3.0V				
Test voltage:	DC 3.0V Bat	tery				
Sample Received Date:	Jan. 28, 202	2				
Sample tested Date:	Feb. 07, 202	22 to Feb. 12, 2	2022			
Remark:	10,00		(6,0)		10.0	

1.N/A:The product is powered by DC3.0V Battery.

2.Company Name and Address shown on Report, the sample(s) and sample Information were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.



Hotline:400-6788-333 www.cti-cert.com E-mail:info@cti-cert.com Complaint call:0755-33681700 Complaint E-mail:complaint@cti-cert.com



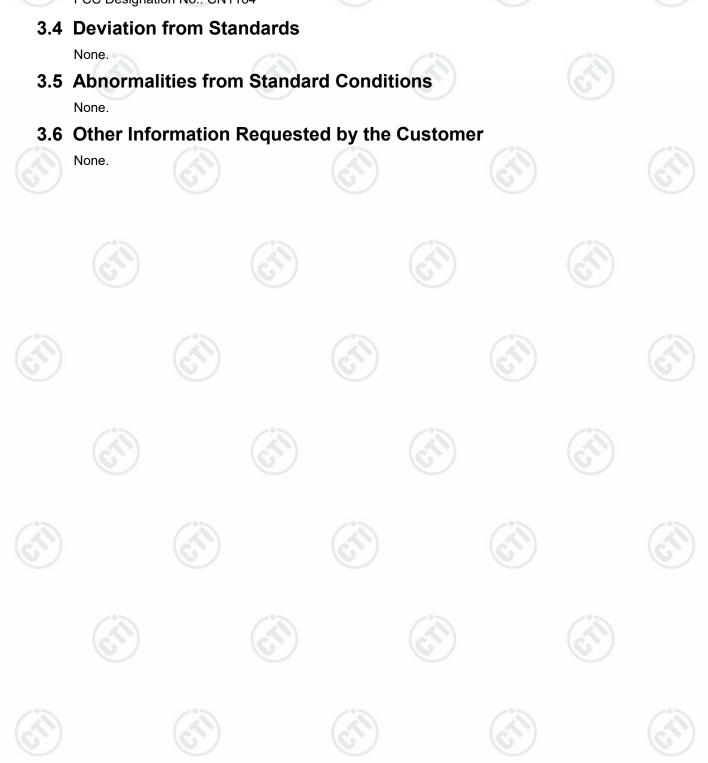






All tests were performed at:

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





Report No.:EED32N81413702 Page 6 of 8

4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 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.

Limits

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:

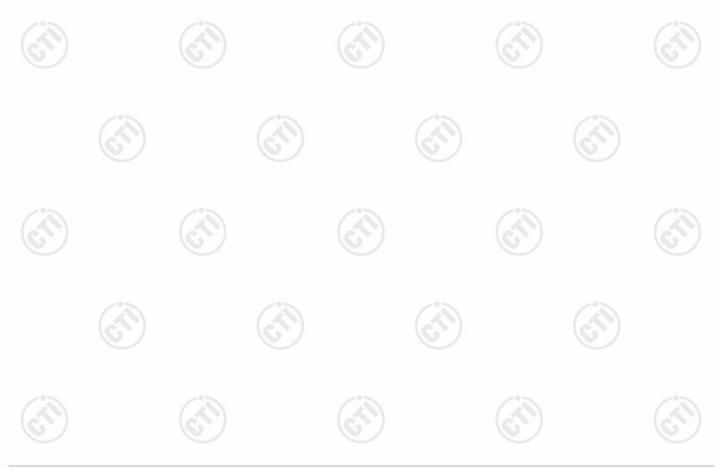
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

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

Power and distance are rounded to the nearest mW and mm before calculation 17

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 \leq 5 mm, a distance of 5 mm is applied to determine SAR test exclusion





Report No.:EED32N81413702



4.1.2 EUT RF Exposure

eirp = pt x gt = $(E x d)^2/30$

where:

pt = transmitter output power in watts,

gt = numeric gain of the transmitting antenna (unitless),

E = electric field strength in V/m, ---10 $((dB\mu V/m)/20)/10^6$,

d = measurement distance in meters (m)---3m,

So pt = $(E \times d)^2/30 / gt$

The worst case (refer to report EED32N81413701) is below:

Antenna polarization: Horizontal					
Frequency (MHz)	Level (dBuV/m)	Polarization			
433.62	38.53	Peak			
433.62	38.29	Average			

Antenna polarization: Vertical					
Frequency (MHz)	Level (dBuV/m)	Polarization			
433.62	49.94	Peak			
433.62	49.70	Average			

For 433.62MHz wireless:

Field strength = 49.94dBµV/m @3m

Ant. gain -18dBi; so Ant numeric gain=0.016

So pt= ${[10^{(49.94/20)}/10^6x3]^2/30/0.016}x1000mW = 0.0018mW$

So $(0.0018 \text{mW/5mm})x \sqrt{0.43362 \text{GHz}} = 0.00024$,

0.00024<3.0 for 1-g SAR

So the SAR report is not required.





















Page 8 of 8

PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32N81413701 for EUT external and internal photos.

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