



RF Exposure Evaluation Report

Product Trade mark Model/Type reference Test Model No.: Serial Number Report Number FCC ID Date of Issue Test Standards Electronic smart key
N/A
D0-92, D1-92
D0-92
N/A
EED32N81413302
2A5DH-DAEA-92
May 24, 2022
47 CFR Part 1.1307

47 CFR Part 2.1093 KDB447498D01 General RF Exposure Guidance v06

Test result

Prepared for:

PASS

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

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Page 2 of 8

1 Version

Version No.	Date		Description	
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Contonte



2 Contents	
	Page
1 VERSION	2
2 CONTENTS	
3 GENERAL INFORMATION	
3.1 CLIENT INFORMATION	4
3.2 GENERAL DESCRIPTION OF EUT.	
3.4 DEVIATION FROM STANDARDS.	
3.5 ABNORMALITIES FROM STANDARD CONDITIONS	
3.6 Other Information Requested by the Customer	5
4 SAR EVALUATION	6
4.1 RF Exposure Compliance Requirement	6
4.1.1 Standard Requirement	
PHOTOGRAPHS OF EUT CONSTRUCTIONAL DETAILS	







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	
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	

Page 4 of 8

3.2 General Description of EUT

Product Name:	Electronic smart key	
Model No.:	D0-92, D1-92	(5)
Test Model No.:	D0-92	
Trade Mark:	N/A	
Product Type:	☐ Mobile	
Frequency Range:	433.92MHz	9
Modulation Type:	FSK	/
Number of Channels:	1	
Antenna Type:	Internal antenna	
Antenna Gain:	-18dBi	
Power Supply:	Model:CR2032	C.
	DC 3.0V	
Test voltage:	DC 3.0V Battery	
Sample Received Date:	Jan. 28, 2022	2
Sample tested Date:	Feb. 07, 2022 to Feb. 12, 2022)
Remark:		

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.

3.Model No.:D0-92, D1-92

Only the model D0-92 was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being appearance and model name.











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

3.4 Deviation from Standards

None.

3.5 Abnormalities from Standard Conditions

None.

None.

3.6 Other Information Requested by the Customer







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.

Page 6 of 8

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)] $\sqrt{f(GHz)} \le 3.0$ 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 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







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 EED32N81413301) is below:

	Antenna polarization: Horizontal				
15	Frequency (MHz)	Level (dBuV/m)	Polarization		
2	433.92	36.62	Peak		
	433.92	36.54	Average		

Antenna polarization: Vertical			
Frequency (MHz)	Level (dBuV/m)	Polarization	
433.92	43.44	Peak	
433.92	43.36	Average	

For 433.92MHz wireless: Field strength = 43.44dB μ V/m @3m Ant. gain -18dBi; so Ant numeric gain=0.016 So pt={[10^(43.44/20)/10⁶x3]²/30 /0.016}x1000mW =0.0004mW So (0.0004mW/5mm)x $\sqrt{0.43392}$ GHz = 0.00005,

0.00005<3.0 for 1-g SAR

So the SAR report is not required.





PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32N81413301 for EUT external and internal photos.

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.

*** End of Report ***

