

RF Exposure Evaluation Report

Report No.: RWAZ202300073C

Applicant: Kiddesigns Inc

Address: 1299 Main Street, Rahway New Jersey, United States, 07065-0901

Product Name: XX-207, XX-212 Walkie talkies

Product Model: SW-207DS.EXv23

Multiple Models: TM-212.EXv23MTG

Trade Mark: N/A

FCC ID: IAJ202C10A

Standards: 47 CFR §1.1310

KDB 447498 D01 General RF Exposure Guidance v06

Test Date: 2024-01-04

Test Result: Complied

Report Date: 2024/02/05

Reviewed by:

Frank Yin

Frank Yin
Project Engineer

Approved by:

Jacob Kong

Jacob Kong
Manager

Prepared by:

World Alliance Testing and Certification (Shenzhen) Co., Ltd

No. 1002, East Block, Laobing Building, Xingye Road 3012, Xixiang street, Bao'an District, Shenzhen,
Guangdong, People's Republic of China



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Revision History

Version No.	Issued Date	Description
00	2024-02-05	Original

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1 General Information

1.1 Client Information

Applicant:	Kiddesigns Inc
Address:	1299 Main Street, Rahway New Jersey,United States,07065-0901
Manufacturer:	Kiddesigns Inc
Address:	1299 Main Street, Rahway New Jersey,United States,07065-0901

1.2 Product Description of EUT

Sample Serial Number	3D-2 (assigned by WATC)
Sample Received Date	2023/12/23
Sample Status	Good Condition
Frequency Range	467.6125MHz
ERP Power	9.52dBm
Modulation Technology	FM
Spatial Streams	SISO (1TX, 1RX)
Antenna Gain [#]	-4dBi
Power Supply	DC 3V from battery or DC 4.5V from battery
Adapter Information	N/A
Modification	Sample No Modification by the test lab

1.3 Laboratory Location

World Alliance Testing and Certification (Shenzhen) Co., Ltd

No. 1002, East Block, Laobing Building, Xingye Road 3012, Xixiang street, Bao'an District, Shenzhen, Guangdong, People's Republic of China

Tel: +86-755-29691511, Email: qa@watc.com.cn

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 463912, the FCC Designation No. : CN5040.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0160.

2 RF Exposure Evaluation

2.1 Standard

According to §1.1310, radio frequency devices shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB447498 D01 General RF Exposure Guidance v06:

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:

$$\frac{[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]}{\leq 3.0}$$
 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is ≤ 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 according to 5) in section 4.1 is applied to determine SAR test exclusion.

2.2 Result

Radio	Frequency (MHz)	Maximum Tune-up ERP (dBm)	Min. test separation distance (mm)	Result (1-g SAR)	Exclusion Limit (1-g SAR)	Verdict
FRS	467.6125	10.0	5	1.4	3.0	Pass

Note: The Maximum ERP including Tune-up Tolerance was declared by manufacturer.

Result: Complied, No need standalone SAR test.

---End of Report---