



RF EXPOSURE EVALUATION REPORT

Application No.: FYCR2203000038ET (SGS SZ No.: T52210250079EM)
Applicant: SHENZHEN LIANGZHIYUAN TECHNOLOGY CO.,LTD.
Address of Applicant: 6TH FLOOR,NO.6,LANE 10,TIANMING STREET,TIANLIAO COMMUNITY,YUTANG,GUANGMING DISTRICT,SHENZHEN,CHINA
Manufacturer: SHENZHEN LIANGZHIYUAN TECHNOLOGY CO.,LTD.
Address of Manufacturer: 6TH FLOOR,NO.6,LANE 10,TIANMING STREET,TIANLIAO COMMUNITY,YUTANG,GUANGMING DISTRICT,SHENZHEN,CHINA
Equipment Under Test (EUT):
EUT Name: KIDS WALKIE TALKIE
Model No.: GB-691
FCC ID: 2A5XPLZYWT691
Standard(s) : 47 CFR PART 1, Subpart I, Section 1.1310
47 CFR PART 2, Subpart J, Section 2.1093
KDB447498D01 General RF Exposure Guidance v06
Date of Receipt: 2022-03-22
Date of Evaluation: 2022-03-24 to 2022-04-19
Date of Issue: 2022-04-25

Evaluation Result:	Pass*
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* In the configuration evaluated, the EUT complied with the standards specified above.

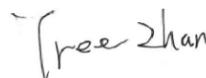
Kidd Yang
EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022-04-25		Original

Authorized for issue by:			
		Tree Zhan/Project Engineer	
		Winkey Wang/Reviewer	

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3 General Information

3.1 Details of E.U.T.

Power supply:	Charge Input 5Vdc via type-C port
	Rechargeable Battery 3.7Vdc, 600mAh
	Battery model: BL-5C
Frequency Range:	462.5500MHz to 467.7125MHz
Modulation Type:	FM
Emission Type:	F3E
Antenna Type:	Inseparable Helical Antenna
Antenna Gain:	-9.7dBi

3.2 Evaluating Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 Fax: +86 755 2671 0594

No tests were sub-contracted.

3.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **A2LA (Certificate No. 6606.01)**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6606.01.

- **FCC –Designation Number: CN1322**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

- **Innovation, Science and Economic Development Canada**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

3.4 Deviation from Standards

None

3.5 Abnormalities from Standard Conditions

None

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4 Technical Requirements Specification

4.1 RF Exposure Evaluation

4.1.1 Limit & Test Method

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:

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

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation¹⁷
- The result is rounded to one decimal place for comparison

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 is applied to determine SAR test exclusion

4.1.2 Conclusion

The Max. power (including including tune-up tolerance) 6.0 dBm on the highest chanr 0.468 GHz (*)
6.00 dBm logarithmic terms convert to numeric result is nearly 3.98 mW

According to the formula. calculate the test exclusion thresholds:

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

$$\text{General RF Exposure} = (3.98 \text{ mW} / 5 \text{ mm}) \times \sqrt{0.4677125 \text{ GHz}} = 0.54 \quad (1)$$

SAR requirement:

$$S = 3.0 \quad (2)$$

$$(1) < (2)$$

So the SAR report is not required.

(*) Max. power refer to Report No.:FYCR220300003801

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5 EUT Constructional Details (EUT Photos)

Refer to appendix - external and internal photos for FYCR2203000038ET

- End of the Report -

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