

RF Exposure Evaluation Report

Product : Alert Riders
Trade mark : N/A
Model/Type reference : 25115
Serial Number : N/A
Report Number : EED32Q81502602
FCC ID : 2BLHI-25115
Date of Issue : Oct. 11, 2024
Test Standards : 47 CFR Part 1.1307
47 CFR Part 1.1310
47 CFR Part 2.1091(mobile devices)
47 CFR Part 2.1093(portable devices)
KDB 447498 D04 Interim General RF
Exposure Guidance v01
Test result : PASS

Prepared for:

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Oct. 11, 2024



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2 General Information

2.1 Client Information

Applicant:	Shenzhen RSP Technology Co.,Ltd
Address of Applicant:	A510 Fenghuangzhigu Building, NO.50 Tiezai Road, Xixiang Bao 'an, Shenzhen, Guangdong,China
Manufacturer:	Shenzhen RSP Technology Co.,Ltd
Address of Manufacturer:	A510 Fenghuangzhigu Building, NO.50 Tiezai Road, Xixiang Bao 'an, Shenzhen, Guangdong,China
Factory:	Shenzhen RSP Technology Co.,Ltd
Address of Factory:	A510 Fenghuangzhigu Building, NO.50 Tiezai Road, Xixiang Bao 'an, Shenzhen, Guangdong,China

2.2 General Description of EUT

Product Name:	Alert Riders
Model No.(EUT):	25115
Trade Mark:	N/A

2.3 Product Specification subjective to this standard

Frequency Range:	915MHz
Number of Channels:	1 (declared by the client)
Modulation type:	OOK
Antenna Type:	Internal antenna
Antenna gain:	2.0dBi
Test Software of EUT:	RF test
Test Power Grade:	Default
Power Supply:	DC 5V
Test Voltage:	DC 3.7V
Sample Received Date:	Sep. 26, 2024
Sample tested Date:	Sep. 26, 2024 to Oct. 09, 2024
Remark: Company Name and Address shown on Report, the sample(s) and sample Information was/ were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.	

2.4 Test Location

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

2.5 Deviation from Standards

None.

2.6 Abnormalities from Standard Conditions

None.

2.7 Other Information Requested by the Customer

None.

3 SAR Evaluation

3.1 RF Exposure Compliance Requirement

3.1.1 Limits

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold Pth (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). Pth is given by Formula

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and ERP20cm is per Formula (B.1).

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B.1})$$

The 1 mW Blanket Exemption of § 1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance.

3.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

3.1.3 EUT RF Exposure Evaluation**For Stand alone:**

Frequency (MHz)	Estimation distance (cm)	Max. E-field strength (dBuV/m)	EIRP (dBm)	ERP (dBm)	ERP (mW)	Limit (mW)	Result
@915MHz	20	86.72	-8.51	-10.66	0.0859	1866.60	Pass

Note:

- ① EIRP=conducted power+antenna gain;
- ② ERP=EIRP-2.15;
- ③ $EIRP(dBm) = \text{Field strength of the fundamental signal}(dBuV/m@3m) - 95.23$;
- ④ $ERP(mW) = 10^{(ERP(dBm)/10)}$;
- ⑤ The estimation distance is 20cm;
- ⑥ The test data please refer to the report of EED32Q81502601 and only the worst case data was recorded in the report.

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 ***