

RF Exposure Evaluation Report

Product : Smart Access Controller
Trade mark : BYD
Model/Type reference : K3CJ
Serial Number : N/A
Report Number : EED32S820484
FCC ID : SD4-K3CJ
Date of Issue : September 29, 2026
Test Standards : 47 CFR Part 1.1307
47 CFR Part 1.1310
47 CFR Part 2.1093
KDB 447498 D04 Interim General RF
Exposure Guidance v01
Test result : PASS

Prepared for:

BYD Auto Industry Company Limited
No.3001 and 3007, Pingshan Hengping Road, Pingshan New District,
Shenzhen, Guangdong, China

Prepared by:

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2 General Information

2.1 Client Information

Applicant:	BYD Auto Industry Company Limited
Address of Applicant:	No.3001 and 3007, Pingshan Hengping Road, Pingshan New District, Shenzhen, Guangdong, China
Manufacturer:	BYD Auto Industry Company Limited
Address of Manufacturer:	No.3001 and 3007, Pingshan Hengping Road, Pingshan New District, Shenzhen, Guangdong, China
Factory:	Changsha BYD Automobile Co., Ltd.
Address of Factory:	No.88, Environmental Protection East Road, Yuhua District, Changsha City, Hunan Province, China

2.2 General Description of EUT

Product Name:	Smart Access Controller
Model No.:	K3CJ
Test Model No.:	K3CJ
Model difference:	N/A
Trade Mark:	BYD
Power Supply:	5V DC
Test Voltage:	5V DC
Sample Received Date:	Aug. 24, 2026
Sample tested Date:	Aug. 24, 2026 to Sep. 18, 2026

2.3 Product Specification subjective to this standard

BLE:

Operation Frequency:	2402MHz~2480MHz
Modulation Type:	GFSK
Transfer Rate:	1Mbps, 2Mbps
Number of Channel:	40
Antenna Type:	PCB antenna
Antenna Gain:	ANT1: 4.65 dBi;

13.56MHz:

Operation Frequency:	13.56MHz
Modulation Type:	ASK
Antenna Type:	Loop antenna
Antenna Gain:	0dBi

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, Test Firm Registration No.: 260439

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:

Band/Freq. (MHz)	Estimation distance (cm)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (mW)	MPE ratio	Result
@BLE/2402	20	3.87	4.65	6.37	4.34	3060.00	0.0014	Pass

Freq. (MHz)	Estimation distance (cm)	Field strength of the fundamental signal(dBuV/m@3m)	EIRP (dBm)	ERP (dBm)	ERP (mW)	Limit (mW)	MPE ratio	Result
@NFC/13.56	20	51.34	-43.89	-46.04	0.00002	1.00	0.0000	Pass

Note:

① EIRP=conducted power+antenna gain;

② ERP=EIRP-2.15;

③ EIRP(dBm) = Field strength of the fundamental signal(dBuV/m@3m) – 95.23;

④ ERP(mW) = $10^{(ERP \text{ (dBm)}/10)}$;

⑤ The estimation distance is 20cm;

⑥ The test data please refer to the report of EED32S820484,EED32S820485 and only the worst case data was recorded in the report.

For Simultaneous Transmission:

As MPE ratio (BLE+NFC)=0.0014+0=0.0014 < 1, it's deemed to fulfil the RF exposure requirement.

Statement

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2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
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*** End of Report ***