1 Cover Page

RF Exposure Evaluation Report

Application No.:	KSCR2406001118AU
FCC ID:	KR56600079509
Applicant:	Continental Automotive Technologies GmbH
Address of Applicant:	Siemensstrasse 12 Regensburg Germany
Manufacturer:	Continental Automotive Changchun Co., Ltd. Jingyue Branch
Address of Manufacturer:	5800 Shengtai Street 130000Changchun China
Equipment Under Test (EUT):	
EUT Name:	KEY ASSY
Model No.:	6600079509
Standard(s) :	FCC Rules 47 CFR §2.1093 KDB 447498 D04 interim General RF Exposure Guidance v01
Date of Receipt:	2024-06-18
Date of Test:	2024-06-24 to 2024-07-16
Date of Issue:	2024-07-17
Test Result:	**Pass***

* In the configuration tested, the EUT complied with the standards specified above.

Revision Record			
Version	**Description**	***Date***	***Remark***
00	Original	2024-07-17	/

Authorized for issue by:				
Tested By		Maker Qi **Maker_Qi/Project Engineer**		
Approved By		Terry Hou **Terry Hou /Reviewer**		

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3 General Information

3.1 General Description of E.U.T.

Power supply:	Voltage 3V Current 8mA(min)/10mA(Typ)/13mA(max)
Test voltage:	DC 3V
Product Type:	☒ Portable device
	☐ Mobile device
	☐ Fixed device

3.2 Details of E.U.T.

Operation Frequency	FL:433.66MHz,FH:434.18MHz
Channel Numbers:	2
Modulation Type:	FSK
Antenna Type:	Internal antenna
Transmitter type:	Manually

3.3 Separation Distance

Separation distance between the antenna to person (R):	＜5mm
Remark: This minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander.	

3.4 Test Location

All tests were performed at:
Compliance Certification Services (Kunshan) Inc.
No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.
Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

Note:

1. SGS is not responsible for wrong test results due to incorrect information (e.g. max. clock frequency, highest internal frequency, antenna gain, cable loss, etc) is provided by the applicant. (if applicable).
2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (if applicable).

3.5 Test Facility

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

- **A2LA**

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

- **FCC**

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

- **ISED**

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 2324E

- **VCCI**

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.

4 Test Standards and Limits

5 FCC Radiofrequency radiation exposure limits

Test exemptions apply for devices used in general population/uncontrolled exposure environments, according to the SAR-based, or MPE-based exemption thresholds.

5.1 RF Exposure Test Exemptions for single RF sources

5.1.1 Blanket 1 mW Blanket Exemption

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.

The 1-mW blanket exemption applies at separation distances less than 0.5 cm, including where there is no separation. This exemption shall not be used in conjunction with other exemption criteria other than those for multiple RF sources in paragraph §1.1307(b)(3)(ii)(A).

The 1-mW exemption is independent of service type and covers the full range of 100 kHz to 100 GHz, but it shall not be used in conjunction with other exemption criteria or in devices with higher-power transmitters operating in the same time-averaging period. Exposure from such higher-power transmitters would invalidate the underlying assumption that exposure from the lower-power transmitter is the only contributor to SAR in the relevant volume of tissue.

Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);

6 Measurement and Calculation

6.1 Maximum transmit power

The Power Data is based on the RF Test Report KSCR240600111801

Freq. (MHz)	Result Level (dBμV/m@3m)	Result Level (mW)
433.66	80.45	0.03
434.18	80.75	**0.04**

6.2 RF Exposure Calculation

For single RF source :

	Evaluation method	Separation distance between the antenna to person (R)
☒	Blanket 1 mW Blanket Exemption	Regardless of separation distance

The max power is 80.75dBuV/m@3m≈0.04 mW<1mW

So, the device is to qualify for FCC SAR test exemption, the exemption report is in lieu of the SAR report.

-End of the Report-