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RF Exposure Evaluation Report

Product	:	Automotive Radar	
Trade mark	:	N/A	
Model/Type reference	:	S3CF	
Serial Number	:	N/A	
Report Number	:	EED32R80178202	
FCC ID	:	2BFO8D9IECMN85ZT6NS	
Date of Issue	:	Mar. 21, 2025	
Test Standards	:	47 CFR Part 1.1307 47 CFR Part 1.1310 KDB 447498 D04 Interim General RF Exposure Guidance v01	

Test result

PASS

Prepared for:

Mindcruise Technology Co., Itd Room 502-503, Building 1, Hongqiao International Exhibition Hall, 2377 Shenkun Road, Minhang District,Shanghai

Prepared by:

Centre Testing International Group Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China TEL: +86-755-3368 3668 FAX: +86-755-3368 3385

Compiled by:	Jirazer. Lö Frazer Li	Reviewed by:	Tom (Chen
CO JUON	Javon Ma Aaron Ma	Date:	Mar. 2	21, 2025
Report Seal			Ch	neck No.: 2738170225





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1 Version

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	Version No.		Date			Descriptio	n	
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Hotline:400-6788-333 www.cti-cert.com E-mail:info@cti-cert.com Complaint call:0755-33681700 Complaint E-mail:complaint@cti-cert.com



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3 General Information

3.1 Client Information

Applicant:	Mindcruise Technology Co., Itd	
Address of Applicant:	Room 502-503, Building 1, Hongqiao International Exhibition Hall, 2377 Shenkun Road, Minhang District,Shanghai	
Manufacturer:	Mindcruise Technology Co., Itd	
Address of Manufacturer:	Room 502-503, Building 1, Hongqiao International Exhibition Hall, 2377 Shenkun Road, Minhang District,Shanghai	
Factory:	Jiangsu Mindcruise Technology Co., Itd	
Address of Factory:	Floors 1-4, North Side of Building 3, Gaochuang Park, Yandu District, Yancheng City, Jiangsu Province (D)	

3.2 General Description of EUT

Product Name:	Automotive Radar	
Model No.:	S3CF	\smile
Trade mark:	N/A	
Product Type:	Mobile Portable Fix Location	
Operating Frequency:	76GHz to 81GHz	
Center frequency:	76.35GHz	
Number of channel:	1	
Type of Modulation:	FMCW(Frequency Modulated Continuous Wave)	13
Test Power Grade:	Default (manufacturer declare)	(2)
Test Software of EUT:	Faaastseer_Installer_Ver_2.0.08.exe (manufacturer declare)	V
Antenna Type:	Microstrip antenna	
Antenna Gain:	16.1dBi	
Power Supply:	DC 9V to DC 36V	
Test Voltage:	DC 12V	
Sample Received Date:	Feb. 17, 2025	
Sample tested Date:	Feb. 17, 2025 to Mar. 19, 2025	









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3.3 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

3.4 Deviation from Standards

None.

3.5 Abnormalities from Standard Conditions

None.

3.6 Other Information Requested by the Customer

None.











SAR Evaluation Δ

4.1 RF Exposure Compliance Requirement

4.1.1 Limits

According to KDB 447498 D04 Interim General RF Exposure Guidance v01, for all devices, MPE limits in § 1.1310(e)(1) - Table1.The SAR-based exemption formula of § 1.1310(e)(1),Table 1 to § 1.1310(e)(1) sets forth limits for Maximum Permissible Exposure (MPE) to radiofrequency electromagnetic fields.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)			
(i) Limits for Occupational/Controlled Exposure							
0.3-3.0	614	1.63	*(100)	≤6			
3.0-30	1842/f	4.89/f	*(900/f ²)	<6			
30-300	61.4	0.163	1.0	<6			
300-1,500			f/300	<6			
1,500-100,000			5	<6			
(ii) Limits for General Population/Uncontrolled Exposure							
0.3-1.34	614	1.63	*(100)	<30			
1.34-30	824/f	2.19/f	*(180/f ²)	<30			
30-300	27.5	0.073	0.2	<30			
300-1,500			f/1500	<30			
1,500-100,000			1.0	<30			

f = frequency in MHz. * = Plane-wave equivalent power density.

Friis Formula,

Friis transmission formula: Pd = (Pout*G)/(4*pi*r2);

Where,

 $Pd = power density in mW/cm^2$

Pout = output power to antenna in mW G = gain of antenna in linear scale Pi = 3.1416;

R = distance between observation point and center of the radiator in cm.



General population/uncontrolled exposure limits apply in situations in which the general public may be exposed, or in which persons who are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure. For example, RF sources intended for consumer use shall be subject to the limits for general population/ uncontrolled exposure in this section.

4.1.2 Test Mode

TX mode Make EUT continuously emit radar signals.







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4.1.3 EUT RF Exposure Evaluation

For Stand alone:

(~~~)	Frequency (GHz)	R (cm)	Corrected EIRP (dBm/MHz)	Tune-up EIRP (dBm)	Tune-up EIRP (mW)	Power density (mW/cm²)	Limit (mW/cm²)	Result
	76.35	20	23.25	24.00	251.1886	0.05	1	PASS

Note:

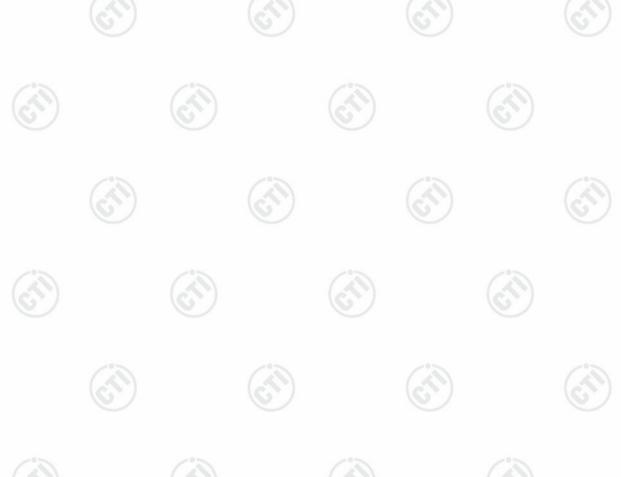
(1) EIRP(mW) = $10^{(EIRP (dBm)/10)};$

2 The estimation distance is 20cm;

③Tune-up EIRP was declared by manufacturer;

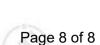
④Power density(mW/cm²)=Tune-up EIRP(mW)/(4* π *R²);

^⑤The test data of Corrected EIRP please refer to the report of EED32R80178201 and only the worst case data was recorded in the report.









Statement

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;

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;

3. The result(s) shown in this report refer(s) only to the sample(s) tested;

4. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule stated in ILAC-G8:09/2019/CNAS-GL015:2022;

End of Report ***

5. Without written approval of CTI, this report can't be reproduced except in full;

