

**1 Cover Page****RF Exposure Evaluation Report**

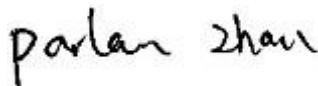
**Application No.:** SHCR2307001430AT  
**FCC ID:** 2BBZ4NFCT1XX  
**Applicant:** DIAS Automotive Electronic Systems Co.,Ltd.  
**Address of Applicant:** Building 4, Lane 33, Jinji Rd, Pudong, Shanghai, China  
**Manufacturer:** DIAS Automotive Electronic Systems Co.,Ltd.  
**Address of Manufacturer:** Building 4, Lane 33, Jinji Rd, Pudong, Shanghai, China  
**Factory:** SAIC DIAS Intelligent Connected Technology (Jiangsu) Co., Ltd.  
**Address of Factory:** Group 5, Siwei Village, Jiuhsia Town, Rugao City, Nantong City, 226541 Jiangsu, P.R. China

**Equipment Under Test (EUT):**

**EUT Name:** NFC READER MODULE  
**Model No.:** T1XX  
**Trade Mark:** DIAS  
**Standard(s) :** FCC Rules 47 CFR §2.1091  
KDB 447498 D04 interim General RF Exposure Guidance v01  
**Date of Receipt:** 2023-06-27  
**Date of Test:** 2023-06-28 to 2023-07-10  
**Date of Issue:** 2023-07-11

<b>Test Result:</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.



Parlam Zhan  
Laboratory Manager



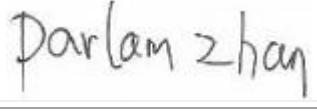
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Revision Record			
Version	Description	Date	Remark
00	Original	2023-07-11	/

Authorized for issue by:				
				
		<b>Micheal Niu /Project Engineer</b>		
				
		<b>Parlam Zhan /Reviewer</b>		



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### 3 General Information

#### 3.1 General Description of E.U.T.

Power supply:	DC 12V
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#### 3.2 Technical Specifications

13.56MHz

Operation Frequency:	13.56MHz
Modulation Type:	ASK
Number of Channels:	1
Antenna Type:	Loop Antenna

#### 3.3 Separation Distance

Separation distance between the antenna to person (R):	>20cm
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. R has been stated in user manual.	

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## 4 RF Exposure Test Exemptions

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

### 4.1 RF Exposure Test Exemptions for single RF sources

#### 4.1.1 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);

#### 4.1.2 MPE-based Exemption

General frequency and separation-distance dependent MPE-based effective radiated power (ERP) thresholds are in Table B.1 [Table 1 of §1.1307(b)(1)(i)(C)] to support an exemption from further evaluation from 300 kHz through 100 GHz. The minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, **R must be at least  $\lambda/2\pi$** , where  $\lambda$  is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of  $\lambda/4$  or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).



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**Table B.1—Thresholds For Single RF Sources Subject to Routine Environmental Evaluation**

RF Source Frequency		Minimum Distance		Threshold ERP
$f_L$ MHz	$f_H$ MHz	$\lambda_L / 2\pi$	$\lambda_H / 2\pi$	W
0.3	—	159 m	—	35.6 m
1.34	—	35.6 m	—	1.6 m
30	—	1.6 m	—	159 mm
300	—	159 mm	—	31.8 mm
1,500	—	31.8 mm	—	0.5 mm
1,500	100,000	31.8 mm	—	19.2R <sup>2</sup>

Subscripts L and H are low and high;  $\lambda$  is wavelength.  
R:Separation distance between the antenna to person

The table applies to any RF source (i.e. single fixed, mobile, and portable transmitters) and specifies power and distance criteria for each of the five frequency ranges used for the MPE limits. These criteria apply at separation distances from any part of the radiating structure of at least  $\lambda/2\pi$ . The thresholds are based on the general population MPE limits with a single perfect reflection, outside of the reactive near-field, and in the main beam of the radiator.

Limit calculation				
Frequency range	Frequency(MHz)	$\lambda/2\pi(m)$	R(m)	Threshold ERP(W)
1.34~30MHz	13.56	3.5229	4.0000	300.206
300~1500MHz	433	0.1103	0.6000	1.995
1500~100000MHz	2462	0.0194	0.2000	0.768
1500~100000MHz	5825	0.0082	0.2000	0.768

#### 4.1.3 SAR-based Exemption

SAR-based thresholds are derived based on frequency, power, and separation distance of the RF source. The formula defines the thresholds in general for either available maximum time-averaged power or maximum time-averaged ERP, whichever is greater.

If the ERP of a device is not easily determined, such as for a portable device with a small form factor, the applicant may use the available maximum time-averaged power exclusively if the device antenna or radiating structure does not exceed an electrical length of  $\lambda/4$ .

As for devices with antennas of length greater than  $\lambda/4$  where the gain is not well defined, but always less than that of a half-wave dipole (length  $\lambda/2$ ), the available maximum time-averaged power generated by the device may be used in place of the maximum time-averaged ERP, where that value is not known. The separation distance is the smallest distance from any part of the antenna or radiating structure for all persons, during operation at the applicable ERP. In the case of mobile or portable devices, the separation distance is from the outer housing of the device where it is closest to the antenna.

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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  $P_{th}$  (mW).

This method shall only be used at separation distances from **0.5cm to 40cm** and at frequencies from 0.3 GHz to 6 GHz (inclusive).  $P_{th}$  is given by Formula (B.2).

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}}(d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases} \quad (\text{B.2})$$

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  $ERP_{20\text{cm}}$  is per Formula (B.1).

Limit calculation				
Frequency range(GHz)	Frequency(GHz)	X	d(cm)	Pth (mW)
0.3~1.5	<b>0.45</b>	1.011	<b>1</b>	<b>44.373</b>
1.5~6	<b>2.462</b>	1.903	<b>20</b>	<b>3060.000</b>

## 4.2 RF Exposure Test Exemptions for Simultaneous Transmission

The available maximum time-averaged power of each source is no more than 1 mW and there is a separation distance of two centimeters between any portion of a radiating structure operating and the nearest portion of any other radiating structure in the same device, except if the sum of multiple sources is less than 1 mW during the time-averaging period, in which case they may be treated as a single source (separation is not required). This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(i)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(i)(A).

Either SAR-based or MPE-based exemption may be considered for test exemption for fixed, mobile, or portable device exposure conditions; therefore, the contributions from each exemption in conjunction with the measured SAR (Evaluatedk term) shall be used to determine exemption for simultaneous transmission. In the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation.



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$$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{Exposure\ Limit_k} \leq 1$$

Where:

**a** = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(B) of this section for **P<sub>th</sub>**, including existing exempt transmitters and those being added.

**b** = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(C) of this section for Threshold ERP, including existing exempt transmitters and those being added.

**c** = number of existing fixed, mobile, or portable RF sources with known evaluation for the specified minimum distance including existing evaluated transmitters.

**P<sub>i</sub>** = the available maximum time-averaged power or the ERP, whichever is greater, for fixed, mobile, or portable RF source **i** at a distance between 0.5 cm and 40 cm (inclusive).

**P<sub>th,i</sub>** = the exemption threshold power (**P<sub>th</sub>**) according to paragraph (b)(3)(i)(B) of this section for fixed, mobile, or portable RF source **i**.

**ERP<sub>j</sub>** = the ERP of fixed, mobile, or portable RF source **j**.

**ERP<sub>th,j</sub>** = exemption threshold ERP for fixed, mobile, or portable RF source **j**, at a distance of at least  $\lambda/2\pi$  according to the applicable formula of paragraph (b)(3)(i)(C) of this section.

**Evaluated<sub>k</sub>** = the maximum reported SAR or MPE of fixed, mobile, or portable RF source **k** either in the device or at the transmitter site from an existing evaluation at the location of exposure.

**Exposure Limit<sub>k</sub>** = either the general population/uncontrolled maximum permissible exposure (MPE) or specific absorption rate (SAR) limit for each fixed, mobile, or portable RF source **k**, as applicable from § 1.1310 of this chapter.



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## 5 Measurement and Calculation

### 5.1 Maximum transmit power

For 13.56MHz: 60.95dBuV/m@3m=0.0004mW

### 5.2 RF Exposure Calculation

For single RF source :

	Evaluation method	Separation distance between the antenna to person (R)
<input checked="" type="checkbox"/>	Blanket 1 mW Blanket Exemption	Regardless of separation distance
<input type="checkbox"/>	MPE-based Exemption(ERP)	$R \geq (\lambda / 2 \pi)$
<input type="checkbox"/>	SAR-based Exemption( $P_{th}$ )	0.5cm < R < 40cm

So the device is exclusion from SAR test.

**--End of the Report--**



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