RF Exposure Evaluation Report

Product	:	Bluetooth Module
Trade mark	:	N/A
Model/Type reference	:	TL8251-D1
Serial Number	:	N/A
Report Number	:	EED32N00004702
FCC ID	:	2AZJTTL8251D1
Date of Issue	:	Apr. 14, 2021
Test Standards	:	47 CFR Part 1.1307 47 CFR Part 1.1310 KDB447498D01 General RF Exposure Guidance v06
Test result	:	PASS

Prepared for:

Sinocare Inc.
NO. 265 Guyuan Road, Hi-Tech Zone,
Changsha Hunan, CN 410205

Prepared by:

Centre Testing International Group Co., Ltd.
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Approved by:	David Wang	Date:	Apr. 14, 2021
	David wang		Check No.:4538098454

2 Version

Version No.	Date	Description
00	Apr. 14, 2021	Original

3 Contents

4 General Information

4.1 Client Information

Applicant:	Sinocare Inc.
Address of Applicant:	NO. 265 Guyuan Road, Hi-Tech Zone,Changsha Hunan, CN 410205
Manufacturer:	Sinocare Inc.
Address of Manufacturer:	NO. 265 Guyuan Road, Hi-Tech Zone,Changsha Hunan, CN 410205
Factory:	Sinocare Inc.
Address of Factory:	NO. 265 Guyuan Road, Hi-Tech Zone,Changsha Hunan, CN 410205

4.2 General Description of EUT

Product Name:	Bluetooth Module
Model No.(EUT):	TL8251-D1
Trade Mark:	N/A
EUT Supports Radios application:	2402MHz~2480MHz

4.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2480MHz
Modulation Type:	GFSK
Test Power Grade:	Default
Test Software of EUT:	EMI_TEST_v1.5
Antenna Type:	PCB Antenna
Antenna Gain:	2.5dBi
Power Supply:	DC 3.3V
Max Conducted Peak Output Power:	BT5.0: 5.82 dBm
	The Max Conducted Peak Output Power data refer to the report EED32N00004701
Sample Received Date:	Jan. 12, 2021
Sample tested Date:	Jan. 12, 2021 to Apr. 14, 2021
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.	

4.4 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

4.5 Deviation from Standards

None.

4.6 Abnormalities from Standard Conditions

None.

4.7 Other Information Requested by the Customer

None.

5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

5.1.2 Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

f(GHz) is the RF channel transmit frequency in GHz
Power and distance are rounded to the nearest mW and mm before calculation[17]
The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

5.1.3 EUT RF Exposure

The max. power of channel is

5.82 dBm (3.82 mW) @ 2402 MHz

When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

So,

3.82mW / 5mm) * (2.402GHz ^0.5)= 1.2

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] * [√f(GHz)] = 1.2 < 3.0

Therefore, standalone SAR measurements are not required for both head and body

PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32N00004701 for EUT external and internal photos.

*** End of Report ***