

RF Exposure Evaluation Report

Report No.: 2405S68690EG

Applicant: Inrico Technologies Co.,Ltd.

Address: A1703, Shenzhen National Engineering Laboratory Building, No.
20 Gaoxin South 7th Road, Shenzhen, China

Product Name: Wireless RSM

Product Model: B06

Multiple Models: N/A

Trade Mark: Inrico

FCC ID: 2AIV6-B06

Standards: 47 CFR §1.1310
KDB 447498 D01 General RF Exposure Guidance v06

Test Date: 2024-06-27

Test Result: Complied

Report Date: 2024-06-28

Reviewed by:

Frank Yin

Approved by:

Jacob Kong

Frank Yin
Project Engineer

Jacob Kong
Manager

Prepared by:

World Alliance Testing & Certification (Shenzhen) Co., Ltd

No. 1002, East Block, Laobing Building, Xingye Road 3012, Xixiang street, Bao'an District, Shenzhen,
Guangdong, People's Republic of China



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Revision History

Version No.	Issued Date	Description
00	2024-06-28	Original

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1 General Information

1.1 Client Information

Applicant:	Inrico Technologies Co.,Ltd.
Address:	A1703, Shenzhen National Engineering Laboratory Building, No. 20 Gaoxin South 7th Road,Shenzhen,China
Manufacturer:	Inrico Technologies Co.,Ltd.
Address:	A1703, Shenzhen National Engineering Laboratory Building, No. 20 Gaoxin South 7th Road,Shenzhen,China

1.2 Product Description of EUT

The EUT is Wireless RSM that contains Classical Bluetooth and BLE radios.

Sample Serial Number	2KLB-1 (assigned by WATC)
Sample Received Date	2024-04-28
Sample Status	Good Condition
Frequency Range	BT/ BLE1M/2M: 2402MHz - 2480MHz
Maximum Conducted Output Power	BT: 5.04dBm BLE: 9.59dBm
Modulation Technology	GFSK, $\pi/4$ -DQPSK, 8DPSK
Antenna Gain [#]	-0.13dBi
Spatial Streams	SISO (1TX, 1RX)
Power Supply	DC 3.7V from battery or DC 5.0V from adapter
Adapter Information	Model: HJ-0501000E1-US Input: AC100-240V, 50/60Hz, 0.2A Output: DC 5V/1000mA
Modification	Sample No Modification by the test lab

1.3 Laboratory Location

World Alliance Testing & Certification (Shenzhen) Co., Ltd

No. 1002, East Block, Laobing Building, Xingye Road 3012, Xixiang street, Bao'an District, Shenzhen, Guangdong, People's Republic of China

Tel: +86-755-29691511, Email: qa@watc.com.cn

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 463912, the FCC Designation No. : CN5040.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0160.

2 RF Exposure Evaluation

2.1 Standard

According to §1.1310, radio frequency devices shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB447498 D01 General RF Exposure Guidance v06:

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:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

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 according to 5) in section 4.1 is applied to determine SAR test exclusion.

2.2 Result

Radio	Frequency (MHz)	Maximum Conducted Power including Tune-up Tolerance		Min. test separation distance (mm)	Result (1-g SAR)	Exclusion Limit (1-g SAR)	Verdict
		(dBm)	(mW)				
BT	2402-2480	5.5	3.55	5	1.1	3.0	Pass
BLE	2402-2480	9.7	9.33	5	2.9	3.0	Pass

Note: The Maximum Conducted Power including Tune-up Tolerance was declared by manufacturer.

Result: Complied, No need standalone SAR test.

---End of Report---