

SAR Exemption Evaluation

Applicant	iRay Technology Co., Ltd.
FCC ID	2ACHK-02090120
Product	Wireless transmission adapter
Brand	iRayTechnology
Model	iLink 2024A
Report No.	R2404A0445-S1
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Table of Contents

1	Test Laboratory	3
1.1	Notes of the Test Report.....	3
1.2	Test Facility	3
1.3	Testing Location.....	3
1.4	Laboratory Environment	3
2	Description of Equipment Under Test	4
3	Test Specification, Methods and Procedures	6
4	Output Power	7
5	Standalone SAR Test Exclusion Considerations	8
	ANNEX A: The EUT Appearance	9

1 Test Laboratory

1.1 Notes of the Test Report

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1.2 Test Facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform measurements.

1.3 Testing Location

Company: Eurofins TA Technology (Shanghai) Co., Ltd.
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1.4 Laboratory Environment

Temperature	Min. = 18°C, Max. = 25°C
Relative humidity	Min. = 20%, Max. = 80%
Ground system resistance	< 0.5 Ω
Ambient noise is checked and found very low and in compliance with requirement of standards. Reflection of surrounding objects is minimized and in compliance with requirement of standards.	

2 Description of Equipment Under Test

Client Information

Applicant	iRay Technology Co., Ltd.
Applicant address	RM 202, Building 7, No. 590, Ruiqing RD., Pudong, Shanghai, China
Manufacturer	iRay Technology Co., Ltd.
Manufacturer address	RM 202, Building 7, No. 590, Ruiqing RD., Pudong, Shanghai, China

General Technologies

Model	iLink 2024A
Lab internal SN	R2404A0445/S01
Hardware Version	R01
Software Version	MCU: 123.1.0.14
Antenna Type	Internal Antenna
Date of Testing	May 29, 2024 ~ June 18, 2024
Date of Sample Received	May 9, 2024
Note: The EUT is sent from the applicant to Eurofins TA and the information of the EUT is declared by the applicant.	

Wireless Technology and Frequency Range

Wireless Technology	Modulation	Operating mode	Tx (MHz)	Rx (MHz)
2.4G	ESB	/	2403 ~ 2481	2403 ~ 2481

3 Test Specification, Methods and Procedures

Reference Standards

KDB 447498 D01 General RF Exposure Guidance v06

4 Output Power

Test Mode	Conducted Power (dBm)			
	Channel/Frequency (MHz)			
	Ch 2/ 2403 MHz	Ch 15/ 2442 MHz	Ch 27/ 2478 MHz	Ch 28/ 2481 MHz
2.4G	7.38	7.74	7.06	7.14

5 Standalone SAR Test Exclusion Considerations

Per KDB 447498 D01, 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

- $f(\text{GHz})$ 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

Per KDB 447498 D01, when the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Band	Configuration	Frequency (MHz)	Distance (mm)	MAX Power (dBm)	Ratio	SAR test exclusion thresholds	Evaluation
2.4GHz	Body	2450	5	7.74	1.87	3	No

Note: Based on SAR test exclusion, all values meet the SAR test exclusion thresholds and are exempt from routine evaluation.

ANNEX A: The EUT Appearance

The EUT Appearance are submitted separately.

*****END OF REPORT *****