

Test Report No:
2490323R-RFUSV17S-A

RF EXPOSURE EVALUATION DECLARATION

Product Name	Wireless Keyboard	
Brand Name	msi	
Model No.	MS-8ZA5	
FCC ID	I4L-MS-8ZA5	
Applicant's Name / Address	MICRO-STAR INT'L Co., LTD. No.69, Lide St., Zhonghe Dist., New Taipei City 235, Taiwan (R.O.C.)	
Manufacturer's Name / Address	MICRO-STAR INT'L Co., LTD. No.69, Lide St., Zhonghe Dist., New Taipei City 235, Taiwan (R.O.C.)	
Test Method Requested, Standard	KDB 447498 D01 v06	☐ Minimum test separation distance ≥ 20 cm ☒ For low power devices
Verdict Summary	IN COMPLIANCE	
Documented By	 Jennie She	
Approved By	 Allen Lin	
Date of Receipt	Sep. 10, 2024	
Date of Issue	Dec. 11, 2024	
Report Version	V1.0	

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Competences and Guarantees

DEKRA is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

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General Conditions

1. The test results relate only to the samples tested.
2. The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.
3. This report must not be used to claim product endorsement by TAF or any agency of the government.
4. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., Ltd.
5. Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Revision History

Version	Description	Issued Date
V1.0	Initial issue of report	Dec. 11, 2024

1. General Information

1.1. EUT Description

RF General Information			
Evaluation Mode	Frequency Range (MHz)	Operating Frequency (MHz)	Modulation Type
Bluetooth	2400 ~ 2483.5	2402 ~ 2480	LE: GFSK
SRD	2400 ~ 2483.5	2403 ~ 2473	GFSK

Note: The above EUT information is declared by the manufacturer.

1.2. Testing Location Information

Testing Location Information		
Test Laboratory : DEKRA Testing and Certification Co., Ltd.		
1 (TAF: 3024)	ADD: No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C. TEL: +886-3-582-8001 FAX: +886-3-582-8958 Test site Designation No. TW3024 with FCC.	
2 (TAF: 3024)	ADD: No.372, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C. TEL: +886-3-582-8001 FAX: +886-3-582-8958 Test site Designation No. TW3024 with FCC.	
Test site number for address 1 includes HC-SR02. Test site number for address 2 includes HC-CB02, HC-CB03, HC-CB04, HC-SR10 and HC-SR12.		

2. RF Exposure Evaluation

2.1. Standard Applicable

According to 1.1307 (b)(1), systems operating under the provisions of this section 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.

2.2. Test Result of RF Exposure Evaluation

According to KDB Publication 447498 D01, section 4.3.1, per the calculations of item 1 (Power(mW)/separation (mm)*sqrt(f(GHz)≤3.0), SAR is required as shown in the table below where calculated values are greater than 3.0:

Evaluation Mode	Frequency (MHz)	E.I.R.P (dBm)	E.I.R.P (mW)	Calculated Threshold Value (≤3.0 SAR is not required)	Test Result (PASS/FAIL)
Bluetooth LE	2402	9.040	8.054	2.324	PASS
SRD	2403	9.060	8.017	2.293	PASS

Operation frequency = 2402 MHz for BLE / 2403 MHz for SRD and antenna separation distance = 5mm

SAR Testing Exemption Threshold = 10mW

Antenna Gain: 2 dBi

Note:

1. The above EUT information is declared by the manufacturer.
2. The SAR/MPE measurement is not necessary.
3. The results are evaluated using the maximum power.