

FCC RF Exposure Report

FCC ID : SQG-SONAIF513
Equipment : Sona IF513 802.11ax Wi-Fi 6E Module with Bluetooth 5.4
Model No. : Sona IF513
Brand Name : Ezurio
Applicant : Ezurio LLC
Address : W66N220 Commerce Court, Cedarburg, WI 53012 United States Of America
Standard : 47 CFR FCC Part 2.1091
Received Date : Jun. 06, 2024
Tested Date : Aug. 14 ~ Oct. 25, 2024

We, International Certification Corporation, would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:

Approved by:


Along Chen / Assistant Manager


Gary Chang / Manager

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Release Record

Report No.	Version	Description	Issued Date
FA460601	Rev. 01	Initial issue	Nov. 25, 2024
FA460601	Rev. 02	Modified antenna gain and re-calculated evaluation results	Dec. 24, 2024

1 MPE EVALUATION OF MOBILE DEVICES

1.1 LIMITS FOR GENERAL POPULATION/UNCONTROLLED EXPOSURE

Frequency Range (MHz)	Power Density (mW /cm ²)	Averaging Time (minutes)
300~1500	F/1500	30
1500~100000	1.0	30

1.2 MPE EVALUATION FORMULA

$$Pd = \frac{Pt}{4 * Pi * R^2}$$

Where

Pd= Power density in mW/cm²

Pt= EIRP in mW

Pi= 3.1416

R= Measurement distance

1.3 REFERENCE GUIDANCE

447498 D01 General RF Exposure Guidance v06

1.4 DEVIATION FROM TEST STANDARD AND MEASUREMENT PROCEDURE

None

1.5 MEASUREMENT UNCERTAINTY

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

Parameters	Uncertainty
Conducted power	±0.808 dB

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1.6 MPE EVALUATION RESULTS

Frequency Range (MHz)	Maximum Conducted Power (dBm)	Maximum Tune Up Limit (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)	*Ratio	Pass / Fail
WLAN								
2412-2462	20.26	20.5	2.4	20	0.039	1	0.039	Pass
5180-5240	19.45	19.5	4.4	20	0.049	1	0.049	Pass
5260-5320	19.31	19.5	4.4	20	0.049	1	0.049	Pass
5500-5720	20.22	20.5	4.4	20	0.061	1	0.061	Pass
5745-5825	20.17	20.5	4.4	20	0.061	1	0.061	Pass
5925-6425	5.13	5.5	5.2	20	0.002	1	0.002	Pass
6425-6525	5.22	5.5	5.2	20	0.002	1	0.002	Pass
6525-6875	5.33	5.5	5.2	20	0.002	1	0.002	Pass
6875-7125	5.37	5.5	5.2	20	0.002	1	0.002	Pass
BT								
2402-2480	6.93	7	2.4	20	0.002	1	0.002	Pass

*Ratio = Power density / Limit.

2 REFERENCE INFORMATION

SAR evaluation is not considered if separation distance between antenna installed in host and human body is higher than or equal to minimum separation distance as below

Frequency Range (MHz)	Maximum Conducted Power (dBm)	Maximum Tune Up Limit		Antenna Gain (dBi)	EIRP (dBm)	ERP		Minimum separation distance (mm)	
		(dBm)	(mW)			(dBm)	(mW)	FCC KDB 447498 D01	FCC KDB 447498 D04
2402-2480	6.93	7	5.01	2.4	9.4	7.25	5.31	5	8
2412-2462	20.26	20.5	112.20	2.4	22.9	20.75	118.85	52	37
5180-5240	19.45	19.5	89.13	4.4	23.9	21.75	149.62	53	47
5260-5320	19.31	19.5	89.13	4.4	23.9	21.75	149.62	53	47
5500-5720	20.22	20.5	112.20	4.4	24.9	22.75	188.36	55	53
5745-5825	20.17	20.5	112.20	4.4	24.9	22.75	188.36	56	53
5925-6425	5.13	5.5	3.55	5.2	10.7	8.55	7.16	200	200
6425-6525	5.22	5.5	3.55	5.2	10.7	8.55	7.16	200	200
6525-6875	5.33	5.5	3.55	5.2	10.7	8.55	7.16	200	200
6875-7125	5.37	5.5	3.55	5.2	10.7	8.55	7.16	200	200

3 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corporation (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <http://www.icertifi.com.tw>.

Linkou

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District, New Taipei City, Taiwan
(R.O.C.)

Kwei Shan

Tel: 886-3-271-8666

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City 33381, Taiwan (R.O.C.)
No.2-1, Lane 6, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)

Kwei Shan Site II

Tel: 886-3-271-8640

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If you have any suggestion, please feel free to contact us as below information.

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