

# FCC RF Exposure Report

**FCC ID** : SQG-BL54L15U  
**Equipment** : Bluetooth LE + 802.15.4 + NFC module  
**Model No.** : BL54L15μ  
**Brand Name** : Ezurio  
**Applicant** : Ezurio LLC  
**Address** : W66N220 Commerce Court, Cedarburg, WI  
53012, USA  
**Standard** : 47 CFR FCC Part 2.1093  
**Received Date** : Jan. 10, 2025  
**Tested Date** : Jan. 10 ~ Jan. 15, 2025

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:

  
Along Chen / Assistant Manager

Approved by:

  
Gary Chang / Manager

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## Release Record

Report No.	Version	Description	Issued Date
FA511001-01	Rev. 01	Initial issue	Mar. 19, 2025

# 1 EXPOSURE EVALUATION OF PORTABLE DEVICES

## 1.1 SAR TEST EXCLUSION THRESHOLD FOR 100MHz to 6GHz and $\leq 50$ mm

Frequency (MHz)	5	10	15	20	25	Separation distance (mm)
150	39	77	116	155	194	SAR Test Exclusion Threshold (mW)
300	27	55	82	110	137	
450	22	45	67	89	112	
835	16	33	49	66	82	
900	16	32	47	63	79	
1500	12	24	37	49	61	
1900	11	22	33	44	54	
2450	10	19	29	38	48	
3600	8	16	24	32	40	
5200	7	13	20	26	33	
5400	6	13	19	26	32	
5800	6	12	19	25	31	

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by

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

- $f(\text{GHz})$  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

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  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.

## 1.2 DEVIATION FROM TEST STANDARD AND MEASUREMENT PROCEDURE

None

## 1.3 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

<b>Declaration of Conformity:</b>
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
<b>Comments and Explanations:</b>
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.

## 1.4 EVALUATION RESULTS

Frequency Range (MHz)	Maximum Average Power (dBm)	Rated Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Exclusion Thresholds	SAR test Exclusion Thresholds Limit
2402 – 2480 (BT LE)	6.71	7.0	2.32	9.32	8.55	2.69 <sup>note2</sup>	3
2405 – 2480 (802.15.4)	6.72	7.0	2.32	9.32	8.55	2.69 <sup>note2</sup>	3

Note 1: Minimum separation distance is < 5 mm.  
(When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.)

Note 2: Exclusion thresholds = ( 8.55 mW / 5 mm ) \*  $\sqrt{2.48\text{GHz}}$

Exclusion Thresholds is 2.74 < 3.0 for separation distance < 5 mm. Therefore, SAR test is not required.

## 2 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>.

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