

RF Exposure Report (FCC)

Report No.: WIR115645-FCC-RF Exposure

Test Model: be.well Analyzer

FCC ID: 2A6UO-AANA2

Received Date: 04 /14 /2022

Test Date: 04 /17/ 2022 – 04 /28 /2022

Issued Date: 05/ 31/ /2022

Applicant: Alveo Technologies

Address: 1000 Atlantic Ave, Suite 114., Alameda CA 94501

Issued By: Eurofins Electrical and Electronic Testing NA, Inc.

Lab Address: 3162 Belick St. Santa Clara CA, 95054



1. Certificate of Conformity

Product: Alveo be.well System
Brand: Alveo
Test Model: be.well Analyzer
Series Number: A-ANA-000002
Sample Status: Engineering Sample
Applicant: Alveo Technologies
Test Date: 04 /17/ 2022 – 04 /28 /2022
Standard: 47 CFR FCC Part 2.1093

Alberto Saldiver

Alberto Saldiver
Test Engineer, Wireless Laboratory

Engineering Statement: The measurements shown in this report were made in accordance with the procedures indicated, and the emissions from this equipment were found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them. It is further stated that upon the basis of the measurements made, the equipment tested is capable of operation in accordance with the requirements of Part 22 Subpart H and Part 24 Subpart E and Part 27 Subpart L of the FCC Rules under normal use and maintenance.

Gary Chou

Gary Chou
Wireless Engineering Manager, Wireless Laboratory

Revision	Report Date	Reason for Revision
Ø	May 31, 2022	Initial Issue.

2. RF Exposure

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f ²)*	30
30-300	27.5	0.073	0.2	30
300-1500	...	...	f/1500	30
1500-100,000	...	...	1.0	30

f = Frequency in MHz; *Plane-wave equivalent power density

2.1 MPE Calculation Formula

$$P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = distance between observation point and center of the radiator in cm

2.2 Antenna Gain

BLE : PCB Antenna with -13.8 dBi gain

2.3 Calculation Result of Maximum Conducted Power

Type/ Band	Frequency Band (MHz)	Max Power (tune up) (dBm)	Max Power (tune up) (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
Bluetooth LE	2402	-6.22	0.2388	-13.8	20	0.000002	1

Note:

- Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
- This device contains

	Model No.	FCC ID	Note
-	-	-	-

3. Conclusion

Conclusion:

The formula of calculated the MPE is:

$CPD1 / LPD1 + CPD2 / LPD2 + \dots \text{etc.} < 1$

CPD = Calculation power density

LPD = Limit of power density

Worse case (BLE)

Total MPE Percentage for

$t = 0.000002 < 1$

Therefore, the maximum calculations of above situations are less than the “1” limit.
The SAR evaluation is not required.