

RF Exposure Report (FCC)

Report No.: WIR117103-FCC-RF Exposure

Test Model: EZYLOCK

FCC ID: 2A6CYEZYLOCKUSW40

Received Date: 02 /14 /2022

Test Date: 02 /17/ 2022 – 0 /28 /2022

Issued Date: 04/ 04/ /2022

Applicant: BRISA AMERICA CORP

Address: 1420 Celebration Blvd., Suite 200 Orlando, FL 34747

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

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



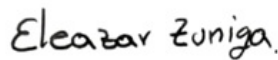
1. Certificate of Conformity

Product: Electronic Controlled Door Lock
Brand: Brisa
Test Model: EZYLOCK
Series Model: N/A
Sample Status: Engineering Sample
Applicant: BRISA AMERICA CORP
Test Date: 02 /17/ 2022 – 0 /28 /2022
Standard: 47 CFR FCC Part 2.1093



Gary Chou
Wireless Engineering Manager, 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.



Eleazar Zuniga,
Director, Wireless Laboratory

Revision	Report Date	Reason for Revision
Ø	April 08, 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

WLAN : PCB Antenna with 3 dBi gain

Cellular: PCB Antenna with 0 dBi gain for All band

2.3 Calculation Result of Maximum Conducted Power

Type	Frequency Band (MHz)	Max Power (dBm)	Max Power (mW)	Turn-Up Tolerance	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
WLAN 2.4GHz	2437	15.6	36.3078	±1dB	3	20	0.018153	1
LTE B2/ B4	1880	25	398.10	±1dB	0	20	0.174562	1
LTE B12	707.5	25	398.10	±1dB	0	20	0.174562	0.471

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
Cellular	SARA-R410M	XPY2AGQN4NNN	-
WLAN/ BLE	NINA-W156	XPYNINAW15	BLE function disable

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

Co-location worse case (WLAN 2.4GHz <E)

Total MPE Percentage for

1.WLAN 2.4GHz, LTE to transmit simultaneously.

$t = 0.563334958 < 1$

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