RF Exposure Report

Report No.:	SA190419C15
FCC ID:	2AJCX-BOSS-MINI1
Test Model:	Yboss mini
Series Model:	Yboss miniXX (where “Y” may be symbol and “X” may be any alphanumeric character, “-” or blank)
Received Date:	Apr. 19, 2019
Test Date:	May 06 ~ May 10, 2019
Issued Date:	May 17, 2019
Applicant:	Carel Industries s.p.a.
Address:	Via dell Industria 11 35020 Brugine (PD) Italy
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lab Address:	No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan, R.O.C.
Test Location:	No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, TAIWAN (R.O.C.)
FCC Registration / Designation Number:	788550 / TW0003

Testing Laboratory
2021

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Release Control Record

Issue No.	Description	Date Issued
SA190419C15	Original release.	May 17, 2019

1 Certificate of Conformity

Product: boss mini

Brand: CAREL

Test Model: Yboss mini

Series Model: Yboss miniXX (where “Y” may be symbol and “X” may be any alphanumeric character, “-” or blank) (Refer to note)

Sample Status: Engineering sample

Applicant: Carel Industries s.p.a.

Test Date: May 06 ~ May 10, 2019

Standards: FCC Part 2 (Section 2.1091)
KDB 447498 D01 General RF Exposure Guidance v06
IEEE C95.1-1992

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample’s RF characteristics under the conditions specified in this report.

Prepared by : _____ , **Date:** May 17, 2019
Polly Chien / Specialist

Approved by : _____ , **Date:** May 17, 2019
Bruce Chen / Project Engineer

Note: All models are listed as below. Model: Yboss mini (EUT1) was chosen for final test.

Brand	Model	Difference	
CAREL	Yboss mini	EUT1	i.MX 6Quad, DDR3 1066 MHz 2G, 16G Emmc, micro hdmi:1920*1080, M.2 WiFI module
		EUT2	i.MX 6 Dual-lite, DDR3 1066 MHz 1G, 8G Emmc
	Yboss miniXX	1. For marketing purpose only 2. Yboss miniXX (where "Y" may be symbol and "X" may be any alphanumeric character, "-" or blank)	

2 RF Exposure

2.1 Limits for Maximum Permissible Exposure (MPE)

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				
300-1500	…	…	F/1500	30
1500-100,000	…	…	1.0	30

F = Frequency in MHz

2.2 MPE Calculation Formula

$Pd = (Pout*G) / (4*pi*r^2)$
where
Pd = power density in mW/cm^2
Pout = output power to antenna in mW
G = gain of antenna in linear scale
Pi = 3.1416
R = distance between observation point and center of the radiator in cm

2.3 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as Mobile Device.

3 Calculation Result of Maximum Conducted Power

Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm^2)	Limit (mW/cm^2)
WLAN 2412~2462	16.91	2.89	20	0.019	1

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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