RF EXPOSURE REPORT

Applicant	Avocor Technologies USA, Inc
Address	9375 SW Commerce Circle, Suite A7 Wilsonville. OR 97070.USA

Manufacturer or Supplier	Avocor Technologies USA, Inc
Address	9375 SW Commerce Circle, Suite A7 Wilsonville. OR 97070.USA
Product	Commercial Display
Brand Name	avocor
Model	AVH-8620
Additional Model & Model Difference	AVH-86***(* can be 0-9, a-z, A-Z, "-" or blank), only difference is sales area and sales channel
Date of tests	Dec. 12, 2023 ~ Jan. 10, 2024

☒ **FCC Part 2 (Section 2.1091)**

☒ **KDB 447498 D01 V06**

☒ **IEEE C95.1**

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Tested by Andy Zhu Supervisor / EMC Department	Approved by Glyn He Assistant Manager / EMC Department
	 Date: Jan. 31, 2024

Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM2311WDG0241	Original release	Jan. 31, 2024

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1. CERTIFICATION

FCC ID:	2BD7U- AVH8620
PRODUCT:	Commercial Display
BRAND NAME:	avocor
MODEL NO.:	AVH-8620
ADDITIONAL NO.:	AVH-86***(* can be 0-9, a-z, A-Z, “-“ or blank), only difference is sales area and sales channel
TEST SAMPLE:	Engineering Sample
APPLICANT:	Avocor Technologies USA, Inc
STANDARDS:	FCC Part 2 (Section 2.1091)
	KDB 447498 D01 V06
	IEEE C95.1

2. RF EXPOSURE LIMIT

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

3. 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

4. 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**.

5. ANTENNA GAIN

The antennas provided to the EUT, please refer to the following table:

Mode	Peak Gain (dBi)	Antenna Type
No modulation (CW only)	4	Integrated patch antenna

6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

When the measurement distance is specified at 3 m, the relationship between EIRP and field strength can be expressed by the following formula:
EIRP(dBm)= E(dB μ V/m)-95.3

Mode	Frequency (MHz)	Fundamental Emission E (dB μ V/m)	EIRP (dBm)
24.00 – 24.25 GHz (RADAR)	24032	87.56	-7.67

The tuned EIRP (declared by client)

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
24.00~24.25GHz (RADAR)	24032	-7	+-5	-12	-2

OPERATION MODE	MAX. EIRP (dBm)	MAX. EIRP (mW)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm^2)	LIMIT (mW/cm^2)
24.00 – 24.25 GHz (RADAR)	-2	0.63	4	20	0.000126	1.0

--- END ---