





RF EXPOSURE REPORT

Applicant	Faurecia Clarion Electronics (Xiamen) Co., Ltd.
Address	6F, No.40, Guanri Road, Software Park Stage II, Xiamen, China

Manufacturer or Supplier	Faurecia Clarion Electronics Co., Ltd.
Address	7-2 Shintoshin, Chuo-ku, Saitama-shi, Saitama, 330-0081, Japan
Product	CAR AUDIO
Brand Name	CLARION
Model	P2202
Additional Model & Model Difference	N/A
Date of tests	Mar. 15, 2023 ~ Apr. 11, 2023

FCC Part 2 (Section 2.1091)

Tootod by Andy 7by

- **⊠ KDB 447498 D01**
- **⊠** IEEE C95.1

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

Supervisor / EMC Department	Approved by Glyn He Assistant Manager / EMC Department
Andy	Au
	Date: Apr. 23, 2023

Date: Apr. 23, 2023

Approved by Clyp Ho

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM2303WDG0070	Original release	Apr. 23, 2023



1. CERTIFICATION

FCC ID:	WY2P2202		
PRODUCT:	CAR AUDIO		
BRAND NAME:	CLARION		
MODEL NO.:	P2202		
ADDITIONAL NO.:	O.: N/A		
APPLICANT:	T: Faurecia Clarion Electronics (Xiamen) Co., Ltd.		
STANDARDS:	FCC Part 2 (Section 2.1091)		
	KDB 447498 D01		
	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/cm²)	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/cm²

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:

Function	Peak Gain (dBi)	Antenna Type
BT	2.7	FPC Antenna
WIFI	4.1	FPC Antenna

6. CALCULATION RESULT OF MAXIMUM CONDUCTED AV POWER

The tuned conducted Average Power (declared by client)

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
GFSK	2402 ~ 2480	-1	+-2	-3	1
8DPSK	2402 ~ 2480	-2	+-2	-4	0
5GHz Wi-Fi (U-NII-3)	5725 ~ 5850	13	+-2	11	15

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
GFSK	2480	-0.93
8DPSK	2480	-1.38
5GHz Wi-Fi (U-NII-3)	5825	13.78



FREQUENCY BAND (MHz)	MAX AVERAGE POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm²)	LIMIT (mW/cm²)
2402 ~ 2480	1	2.7	20	0.00047	1.0
5725 ~ 5850	15	4.1	20	0.01617	1.0

CONCLUSION:

WIFI and BT can transmit simultaneously, the formula of calculated the exposure is:

CPD1 / LPD1 + CPD2 / LPD2 +etc. < 1

CPD = Calculation power density

LPD = Limit of power density

Worst situation is (0.00047/1)+(0.01617/1) = 0.017 < 1, which is less than the "1" limit.

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