

RF EXPOSURE REPORT

Applicant	HELLA INDIA AUTOMOTIVE PRIVATE LTD.
Address	Unit No 201 A to 201 B & 301 B, "NANO SPACE" Survey. No. 5 / 1 B / 2, Baner, Pune - 411 045, India

Manufacturer or Supplier	HELLA INDIA AUTOMOTIVE PRIVATE LTD.
Address	9th Milestone, Gurgaon-Farookhnagar RD, Near Basai Road, Dhankot, Gurugram, Haryana 122001.
Product	MFECU
Brand Name	HELLA
Model	PMP3
Additional Model & Model Difference	N/A
Date of tests	Sep. 03, 2020 ~ Sep. 21, 2020

☒ FCC Part 2 (Section 2.1091)

☒ KDB 447498 D01

☒ IEEE C95.1

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

Tested by Andrew Sha Project Engineer / EMC Department	Approved by Glyn He Assistant Manager / EMC Department
	
	Date: Sep. 28, 2020

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Test Report No.: FM200827N001

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM200827N001	Original release	Sep. 28, 2020

1. CERTIFICATION

FCC ID:	2AWK2PMP3
PRODUCT:	MFECU
BRAND NAME:	HELLA
MODEL NO.:	PMP3
ADDITIONAL NO.:	N/A
APPLICANT:	HELLA INDIA AUTOMOTIVE PRIVATE 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/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

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

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

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:

Transmitter Circuit	Peak Gain (dBi)	Antenna Type
Chain 0	3.3	PCB 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	-3	+3	-6	0
8DPSK	2402-2480	-3	+2	-5	-1
BT-LE	2402-2480	0	+2	-2	2

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
GFSK	2441	-0.97
8DPSK	2402	-2.16
BT-LE	2402	1.03

FREQUENCY BAND (MHz)	MAX AVERAGE POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm ²)
2402-2480	2	3.3	20	0.000674	1.0

--- END ---