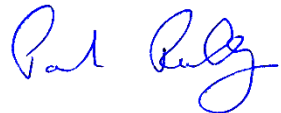


Project No.	22E10095-2b
Quotation	Q22-2201-1
Prepared For	Sensata Schrader Electronics Ltd
Address	Unit 10 Antrim Technology Park Belfast Road Antrim Northern Ireland BT41 1QS
Contact	Zoe Gourley
Contact (Phone)	+44 2894 482536
Contact (Email)	Gourley, Zoe [zgourley@sensata.com]
Prepared By	Compliance Engineering Ireland
Test Lab Address	Clonross Lane Derrockstown Dunshaughlin Co. Meath Ireland A85XN59
Tested By	Joy Israel Dalayap
Test Report By	Michael Kirby
FCC Test Firm Registration	409640
ISED CAB identifier	8517A
Date Received	24th Aug 2022
Issue Date	14th Oct 2022
EUT Description	Sensor 433MHz, Tyre Pressure Monitor
FCC ID	2ATIMETPMS01
IC ID	25094-ETPMS01
Authorised by	Paul Reilly
Authorised Signature:	

RF Exposure Exhibit– Technical Report

1.0 Overview

Fixed / Mobile Application

MPE for bystanders which are considered to be ≥20cm away from the front of the transmit antenna

2. Maximum Permissible Exposure FCC

2.1 Limits /guidelines

47 CFR Sections 1.1307, 1.1310, 2.1091

447498 D01 General RF Exposure Guidance v06

EUT Rated power is 0.01mW

2.2 Results

where:

S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

$$S = \frac{PG}{4\pi R^2}$$

Prediction frequency:	433.92	MHz
Radiated Field Strength at 3m	75.2	dBuV/m
Power Conversion factor for antenna distance 3m	-95.2	dB
EIRP Peak	-20	dBm
Time Averaging Factor	0	dB
EIRP Peak	-20	dBm
EIRP Peak	0.01000	mW
Prediction distance:	20	cm
MPE limit for Uncontrolled/General Population exposure at prediction frequency:	0.29	mW/cm ²
Power density at prediction frequency:	0.00000199	mW/cm ²
Power density at prediction frequency:	0.000020	W/m ²
Test Result: Exempt from RF exposure test	Pass	

Notes

The table above shows that for a prediction distance of 20cm, RF exposure evaluation is not required.

2.0 Maximum Permissible Exposure IC
Limits for Routine Evaluation — RF Exposure Evaluation

2.1 Limits /guidelines
Limits for Routine Evaluation — RF Exposure Evaluation
Limits as per RSS 102 Issue 5 (Mar 2015) 2.5.2

3.2 General population /Un-controlled Environments (IC)

where:

$$S = \frac{PG}{4\pi R^2}$$

S = power density
P = power input to the antenna
G = power gain of the antenna in the direction of interest relative to an isotropic radiator
R = distance to the center of radiation of the antenna

Prediction frequency:	433.92	MHz
EIRP Peak	-20	dBm
Time Averaging Factor	0.00	dB
Tune up factor	0	dB
EIRP Peak	-20.0	dBm
EIRP Peak	0.01	mW
2.5.2 Exemption limit for Routine Evaluation :	831.1	mW
Exempt from Routine RF Exposure Evaluation		

The table above shows that RF exposure is exempt from routine RF exposure evaluation.

End of Report