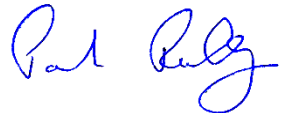


<b>Project No.</b>	<b>22E910088-2a</b>
<b>Quotation</b>	<b>Q22-1508-1</b>
<b>Prepared For</b>	<b>Schrader Electronics Ltd</b>
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<b>Prepared By</b>	<b>Compliance Engineering Ireland</b>
<b>Test Lab Address</b>	<b>Clonross Lane, Derrockstown Dunshaughlin, Co. Meath Ireland, A85XN59</b>
<b>Test Report By</b>	<b>Michael Kirby</b>
<b>FCC Test Firm Registration</b>	<b>409640</b>
<b>ISED CAB identifier</b>	<b>8517A</b>
<b>Date Received</b>	<b>21<sup>st</sup> Aug 2022</b>
<b>Issue Date</b>	<b>26<sup>th</sup> Aug 2022</b>
<b>EUT Description</b>	<b>Sensor 433MHz, Tyre Pressure and Temperature Monitor</b>
<b>FCC ID</b>	<b>MRXFP4</b>
<b>IC ID</b>	<b>2546A-FP4</b>
<b>Authorised by</b>	<b>Paul Reilly</b>
<b>Authorised Signature:</b>	

## 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 <sup>2</sup>
Power density at prediction frequency:	0.00000199	mW/cm <sup>2</sup>
Power density at prediction frequency:	0.000020	W/m <sup>2</sup>
<b>Test Result: Exempt from RF exposure test</b>	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
Prediction distance:	0	cm
2.5.2 Exemption limit for Routine Evaluation :	831.1	mW
<b>Exempt from Routine RF Exposure Evaluation</b>		

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

**End of Report**