Compliance Engineering Ireland Ltd

Clonross Lane, Derrockstown, Dunshaughlin, Co. Meath

Tel: +353 1 8256722 Fax: +353 1 8256733

Project Number: 13E4897-2b

Prepared for:

Galvanic Ltd.

By

Compliance Engineering Ireland Ltd

Clonross Lane

Derrockstown

Dunshaughlin

Co. Meath

FCC Site Registration: 92592

Industry Canada Assigned Site Code: 8517A-2

FCC ID: 2ABRHPIP

IC: 11686A-PIP

Date

14th April 2014

FCC EQUIPMENT AUTHORISATION

Test Report

EUT Description

Biosensor

Authorised :

John McAuley

RF Exposure Exhibit– Technical Report

Applicant Name and Address

The system covered under this authorisation report was designed, manufactured and assembled by Galvanic Ltd . The company's full name and mailing address is given below:

Galvanic Ltd.
One Gateway,
East Wall Road
Dublin 3, Ireland

Model Name

The model number for the EUT covered under this application report is:

PIP

2.0 SAR Evaluation

Excerpt from 447498 KDB
Section 4.3.1 Standalone SAR Test exclusion considerations

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* ≤ 50 mm are determined by:
[(*max. power of channel, including tune-up tolerance, mW*)/(*min. test separation distance, mm*)] · [$\sqrt{f_{(GHz)}}$] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,[24]

The test exclusions are applicable only when the minimum *test separation distance* is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum *test separation distance* is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

Calculation = [P/D] *[√f(GHz)]

where:

- $f_{(GHz)}$ is the RF channel transmit frequency in GHz
- P = max power of channel including tuneup tolerance mW
- D = min separation distance mm
- Power and distance are rounded to the nearest mW and mm before calculation25
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

Based on a Conducted measurement with max antenna gain of 0.5 dBi

Prediction frequency: f	2.48	GHz
Maximum power of channel : P	7.0	mW
Minimum separation distance: D	5	mm
Calculation	2.1	
Numeric Threshold for 10g SAR	7.5	
SAR Test not required		
Estimated SAR Value [2.1/7.5]*0.4	0.111	W/Kg