



Compliance Engineering Ireland Ltd

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Project Number: 13E4897-2b

Prepared for:

Galvanic Ltd.

By

Compliance Engineering Ireland Ltd

Clonross Lane

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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

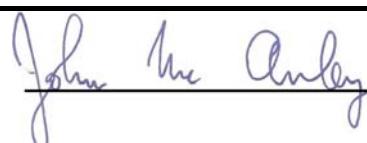
Test Report

EUT Description

Biosensor

Authorised :

John McAuley

A handwritten signature in blue ink that reads 'John McAuley'. The signature is fluid and cursive, with 'John' on the top line and 'McAuley' on the bottom line.

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:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f_{\text{GHz}}}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR,}^{24}$$

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.

$$\text{Calculation} = [P/D] * [\sqrt{f_{\text{GHz}}}]$$

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