



Compliance Engineering Ireland Ltd

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Project Number: 11E3272

FCC ID Z4GK115

Prepared for:

Kelsius

By

Compliance Engineering Ireland Ltd
Clonross Lane
Derrockstown
Dunshaughlin
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FCC Site Registration: 92592
Industry Canada Assigned Code: 8517A

Date

13th January 2012

FCC EQUIPMENT AUTHORISATION
Test Report

EUT Description

Wireless Sensor Module K115

Authorised:

A handwritten signature in blue ink, appearing to read 'John McAnally', written over a horizontal line.

List of Exhibits

1 Maximum Permissible Exposure

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE
WRITTEN APPROVAL OF COMPLIANCE ENGINEERING IRELAND LTD

RF Exposure Exhibit– Technical Report

Kelsius

Applicant Name and Address

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

**Unit 6, Ballyconnell
Industrial Estate, Falcarragh,
Co Donegal,
Ireland**

Model Name

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

Wireless Sensor Module K115

1.0 Maximum Permissible Exposure

Prediction of MPE limit at a given distance

Equation from OET Bulletin 65

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

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

Maximum peak output power at antenna input terminal:	23 (dBm)
Maximum peak output power at antenna input terminal:	200 (mW)
Antenna gain(typical):	2.15 (dBi)
Maximum antenna gain:	1.64 (numeric)
Prediction distance:	20 (cm)
Prediction frequency:	913 (MHz)
MPE limit for uncontrolled exposure at prediction frequency:	0.6 (mW/cm^2)
Power density at prediction frequency:	0.065 (mW/cm^2)
Maximum allowable antenna gain:	9.63 (dBi)