



Compliance Engineering Ireland Ltd

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Project Number: 16E6009-2c

Prepared for:

**Tekelek Europe Ltd.**

By

Compliance Engineering Ireland Ltd

Clonross Lane

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Dunshaughlin

Co. Meath

**FCC Site Registration: 92592**

FCC ID: S6T750

**Date**

15<sup>th</sup> Nov 2016

FCC EQUIPMENT AUTHORISATION

Test Report

**EUT Description**

**SRD Liquid level Gauge**

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**Authorised :**

**John McAuley**

A handwritten signature in blue ink, reading 'John McAuley', is written over a horizontal line. The signature is cursive and matches the printed name below it.

**RF Exposure Exhibit– Technical Report**

**1.0 Maximum Permissible Exposure Internal Antenna**

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

Radiated Field Strength at 3m	98.4	dBuV/m
Power Conversion factor for antenna distance 3m	-95.2	dB
Time Averaging Factor	0	dB
EIRP Peak	3	dBm
EIRP Peak	2	mW
Prediction distance:	20	cm
Prediction frequency:	2412	MHz
MPE limit for Uncontrolled/General Population exposure at prediction frequency:	1.00	mW/cm^2
Power density at prediction frequency:	0.0004	mW/cm^2
Power density at prediction frequency:	0.004	W/m^2
Test Result	Pass	

**2.0 Maximum Permissible Exposure Internal Antenna**

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

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

Conducted Output Power	15	dBm
Antenna Gain	7	dB
Time Averaging Factor	0	dB
EIRP Peak	22	dBm
EIRP Peak	158	mW
Prediction distance:	20	cm
Prediction frequency:	2412	MHz
MPE limit for Uncontrolled/General Population exposure at prediction frequency:	1.00	mW/cm <sup>2</sup>
Power density at prediction frequency:	0.032	mW/cm <sup>2</sup>
Power density at prediction frequency:	0.315	W/m <sup>2</sup>
Test Result	Pass	

End of Report