



Compliance Testing, LLC

Previously Flom Test Lab

EMI, EMC, RF Testing Experts Since 1963

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Test Report

Prepared for: Silent Tech Holdings Pty Ltd

Model: RFM22B

Description: Radio Transceiver Module

FCC ID: 2AFM2-XK420

IC: 20657-XK420

Serial Number: N/A

To

FCC Part 1.1310

Date of Issue: September 3, 2015

On the behalf of the applicant:

**Silent Tech Holdings Pty Ltd
#5 13/15 Ellerslie Road
Meadowbrook, Queensland 4131
Australia**

Attention of:

**Rick Cotton, Director
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**Prepared By
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Project No: p1550010**

**Alex Macon
Project Test Engineer**

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Test Report Revision History

Revision	Date	Revised By	Reason for Revision
1.0	July 29, 2015	Alex Macon	Original Document



ILAC / A2LA

Compliance Testing, LLC, has been accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer joint ISO-ILAC-IAF Communiqué dated January 2009)

The tests results contained within this test report all fall within our scope of accreditation, unless below

Please refer to <http://www.compliancetesting.com/labscope.html> for current scope of accreditation.

Testing Certificate Number: **2152.01**



FCC Site Reg. #349717

IC Site Reg. #2044A-2

Non-accredited tests contained in this report:

N/A

EUT Description

Model: RFM22B

Description: Radio Transceiver Module

Serial Number: N/A

Additional Information:

The EUT is a Wetness Sensor to be used in a Remote Control Leak Detection System which incorporates a 900 MHz radio with an integral antenna.



Average Power calculations

Average Power = Peak Power * duty-cycle%

Tuned Frequency (MHz)	Conducted Peak Output Power (mW)	Duty Cycle (%)	Average Power (mW)
915.5	29 mW	100	29 mW



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MPE Evaluation

This is a fixed device used in Uncontrolled Exposure environment.

Limits Uncontrolled Exposure
47 CFR 1.1310
Table 1, (B)

0.3-1.234 MHz:	Limit [mW/cm ²] = 100
1.34-30 MHz:	Limit [mW/cm ²] = (180/f ²)
30-300 MHz:	Limit [mW/cm ²] = 0.2
300-1500 MHz:	Limit [mW/cm ²] = f/1500
1500-100,000 MHz	Limit [mW/cm ²] = 1.0

Test Data

Test Frequency, MHz	915.5
Power, Conducted, mW (P)	29
Antenna Gain Isotropic	0 dBi
Antenna Gain Numeric (G)	1.0
Antenna Type	integral
Distance (R)	20 cm

$S = \frac{P * G}{4\pi r^2}$			
Power Density (S) mw/cm ²	Power mW (P)	Numeric Gain (G)	Distance (r ²) cm
0.0057695368	29	1	20

Power Density (S) =0.006
Limit =(from above table) = 1.0

END OF TEST REPORT