

FCC RF Exposure Report

Product name : WSN Node
Applicant : Evalan
FCC ID : 2AK2M-EVAWSN-N15

Test report No. : 170100161 MPE Ver 1.00

Laboratory information

Accreditation

Telefication is designated by the FCC as an Accredited Test Firm for compliance testing of equipment subject to Certification under Parts 15 & 18. The Designation number is: NL0001

The Industry Canada registration number for the 3 meter test chamber of Telefication is: 4173A-1.

Documentation

Telefication complies with the accreditation criteria for test laboratories as laid down in ISO/IEC 17025:2005. The accreditation covers the quality system of the laboratory as well as the specific activities as described in the authorized annex bearing the accreditation number L021 and is granted on 30 November 1990 by the Dutch Council For Accreditation (RvA: Raad voor Accreditatie).

The test report must always be reproduced in full; reproduction of an excerpt only is subject to written approval of the testing laboratory. The documentation of the testing performed on the tested devices is archived for 10 years at Telefication Nederland

Testing Location

Test Site	Telefication BV
Test Site location	Edisonstraat 12a 6902 PK Zevenaar The Netherlands Tel. +31316583180 Fax. +31316583189
Test Site FCC	NL0001

Revision History

Version	Date	Remarks	By
V1.00	30-05-2017	Release version	PS

Table of Contents

Revision History	2
1 General Description	4
1.1 Applicant	4
1.2 Manufacturer	4
1.3 Tested Equipment Under Test (EUT)	4
1.4 MPE Calculation Method	5
1.5 Antenna	5
1.6 Calculation results	5

1 General Description

1.1 Applicant

Client name:	Evalan B.V.
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Telephone:	+31 (0)20-7790344
E-mail:	emiel.kleinsman@evalan.com
Contact name:	Emiel Kleinsman

1.2 Manufacturer

Manufacturer name:	Evalan B.V.
Address:	Sarphatistraat 638
Zip code:	1018 AV
Telephone:	+31 (0)20-7790344
E-mail:	emiel.kleinsman@evalan.com
Contact name:	Emiel Kleinsman

1.3 Tested Equipment Under Test (EUT)

Product name:	Evalan WSN Node
Brand name:	Evalan
Product type:	--
FCC ID:	2AK2M-EVAWSN-N15
Model(s):	--
Software version:	--
Hardware version:	--

1.4 MPE Calculation Method

Calculation method of RF Safety Distance:

$$PD = \frac{P_{out} * G}{4\pi r^2}$$

Where:

PD = Power Density in W/m²

P_{out} = Output power in W

G = Gain of antenna

R = Distance between observation point and centre of the radiator in m

1.5 Antenna

Antenna type	PIFA
Antenna gain	3.3 dBi

1.6 Calculation results

Frequency (MHz)	Max power (mW) incl. antenna gain	Distance (cm)	Power density (mW/cm ²)	Limit (mW/cm ²)	Result
2402 -2480	38.0	20	0.76	1	Pass