

E.M.C. TEST REPORT

According to the standard(s):

FCC Part15.207

Equipment under test:

Transceiver for SAW sensors HTR01_2AW
FCC ID : 2AEGUHTR01-2AW


Company:

SENSEOR

Diffusion: M. TOURETTE

(Company: SENSEOR)

Number of pages: 11 including 1 annex

Ed.	Date	Modified page(s)	Written by		Technical verification Quality approval	
			Name	Visa	Name	Visa
0	3-July-2015	Creation	David MONTAULON		Olivier HEYER	

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**NAME OF THE EQUIPMENT
UNDER TEST (E.U.T.)** : Transceiver for SAW sensors HTR01_2AW
FCC ID : 2AEGUHTR01-2AW

Serial number : 00100

P/N : None

Software version : Not communicated

MANUFACTURER'S NAME : SENSEOR

APPLICANT'S ADDRESS:

Company : SENSEOR

Address : LE NAVIGATOR BÂTIMENT B
505 ROUTE DES LUCIOLES
06560 VALBONNE
FRANCE

**Person(s) present during the
tests** : Nobody

Responsible : M. TOURETTE

DATE(S) OF TESTS : July 1st of 2015

TESTS LOCATION(S) : EMITECH MONTPELLIER laboratory in VENDARGUES (34) -
FRANCE

TESTS SUPERVISOR(S) : NONE

TESTS OPERATOR(S) : David MONTAULON

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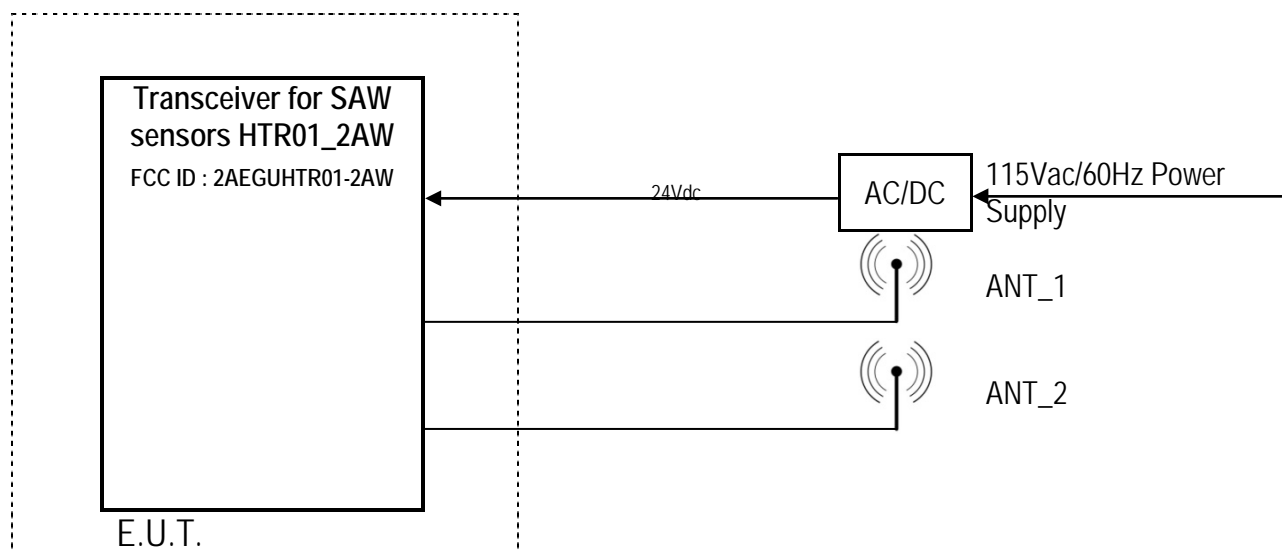
1. INTRODUCTION

This document submits the results of Electromagnetic Compatibility tests performed on the equipment **Transceiver for SAW sensors HTR01_2AW** (denominated hereafter E.U.T.: equipment under test) according to document(s) listed below.

2. REFERENCE DOCUMENT(S)

FCC part 15 Subpart C	Code of Federal Regulations Title 47 – Telecommunications Chapter 1 – Federal Communications Commission Part 15 – Radio frequency devices Subpart C – Intentional Radiators
ANSI C 63.4:2003	American National Standard for Methods of measurement of Radio-Noise from low-voltage. Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz

3. EQUIPMENT UNDER TEST CONFIGURATION SCHEME



Cycle and operating mode during emission tests: Normal use

Equipment modifications applied during tests: No

4. SUMMARY OF TEST RESULTS

Tests designation	Results satisfying?	Comments
EMISSION Conducted emission	YES	Class B

N.P.: Not Performed.

N.A.: Not Applicable.

▪ In emission:

Sample subject to the test complies with prescriptions of the standard(s) FCC Part15.207 according to limits, specified in this test report.

5. CONDUCTED EMISSION

Temperature (°C): 26.1

Humidity (%HR): 57.2

Pressure (hPa): 1013

Standard: FCC part 15.207

Test method: ANSI C63.4

Test configuration:

Tested cable(s)	Measure with	E.U.T. height
115Vac/60Hz Power Supply	L.I.S.N.	40cm

Frequency band	Tested cable(s)	Resolution bandwidth	Video bandwidth	Detection mode
10MHz-30MHz	115Vac/60Hz Power Supply	10kHz	30kHz	Peak
150kHz-1MHz	115Vac/60Hz Power Supply	10kHz	30kHz	Peak and average
1MHz-10MHz	115Vac/60Hz Power Supply	10kHz	30kHz	Peak

In order to show compliance with Part 15.207, E.U.T. was powered by a standard AC/DC converter 115Vac/60Hz.

Test method deviation: No

Test equipment list:

CATEGORY	BRAND	TYPE	N° EMITECH	DATE CAL.	DATE VAL
AC power source	KIKUSUI	PCR2000L	0800	#	#
Cable	Emitech	Current absorber sheath	10653	17/10/2013	17/12/2015
Cable	Micro-coax	N-3m	10537	05/09/2013	05/11/2015
Cable	Micro-coax	N-5m	10529	05/09/2013	05/11/2015
LISN	AFJ	LT42C\10	12007	04/05/2015	04/07/2016
Receiver	Agilent	E4440A	5824	01/05/2014	01/07/2016
Receiver	Rohde & Schwarz	ESHS10	3371	16/04/2015	16/06/2017
Shielded enclosure	RAY PROOF	C.V1	1123	#	#
Software	Nexio	BAT EMC	0000	#	#
Thermohygrometer	Testo	608-H1	7561	26/09/2014	26/11/2016

#: Permanent validity

BAT-EMC software version: V3.6.0.32

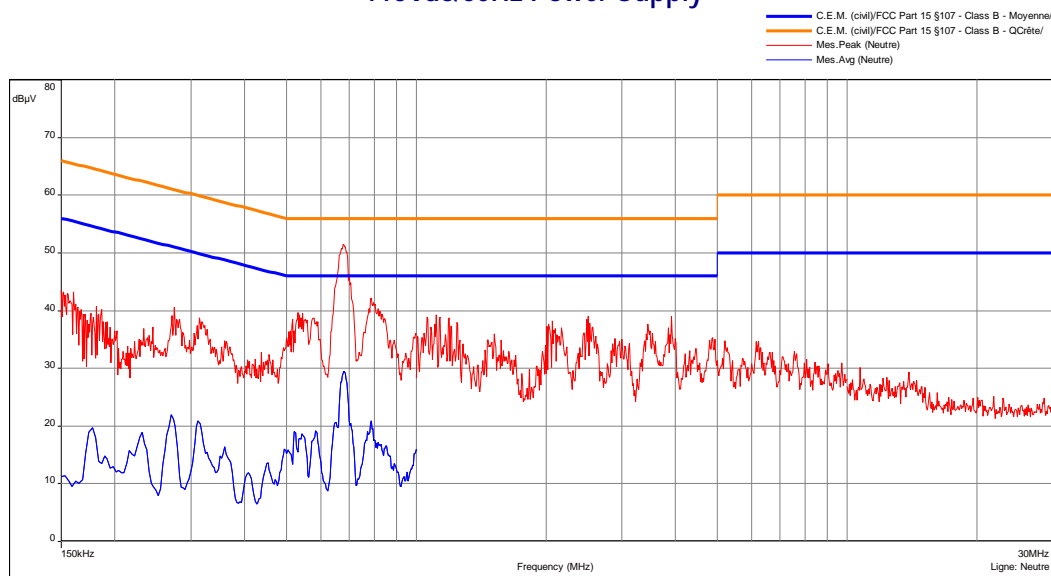
Results: See Graph(s) hereafter.

Limits on the graphs are average and quasi-peak limits (upper limit).

Conducted voltage emission (measurement)

EMI1519

115Vac/60Hz Power Supply

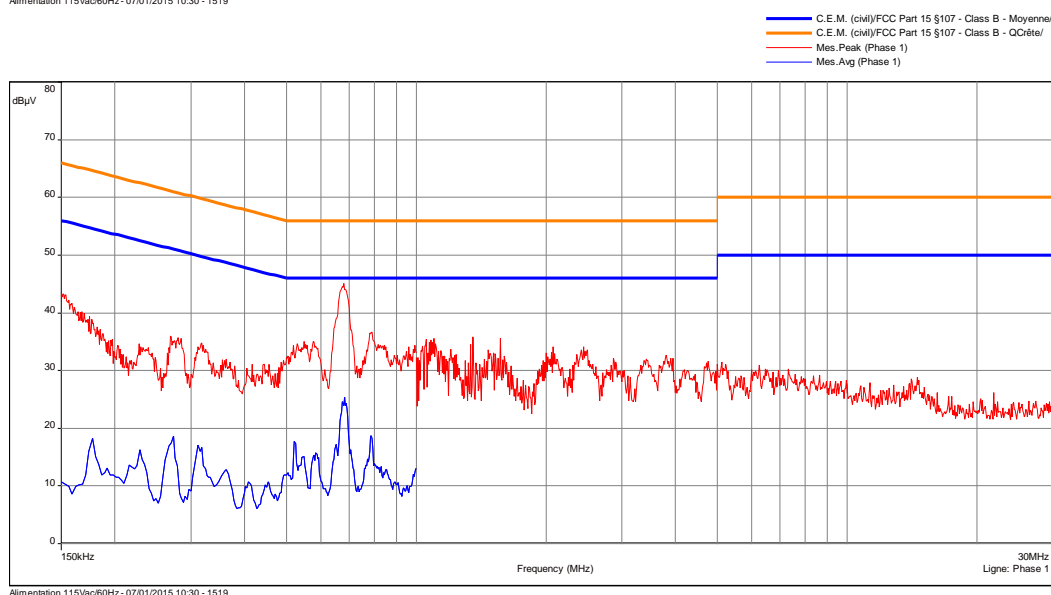


Date: 01/07/2015 10:30:16

Technician: DM

Class: B of the standard

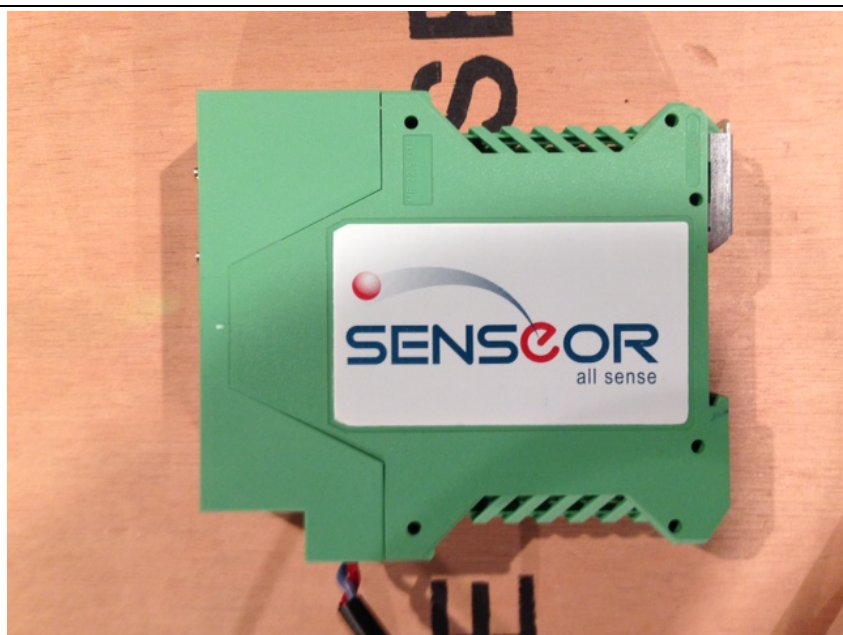
Detection:
Peak and average

Modification(s) during test:
No


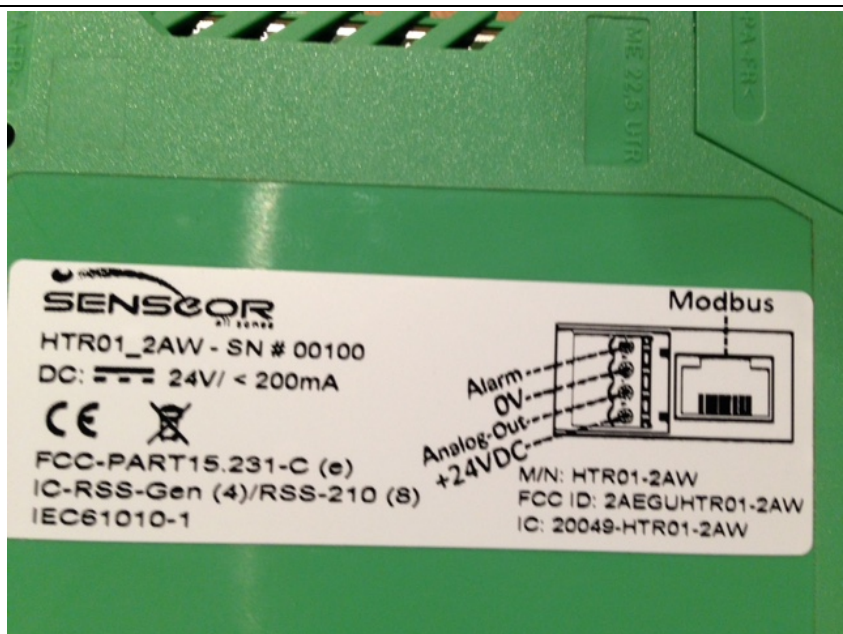
End of report – 1 annex to be forwarded

ANNEX 1: PHOTOGRAPH(S)

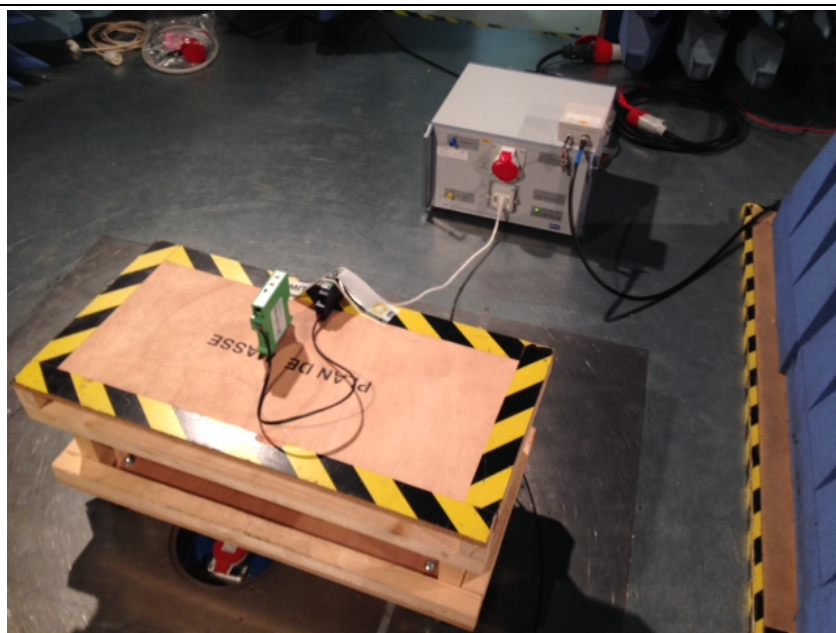
E.U.T. general view



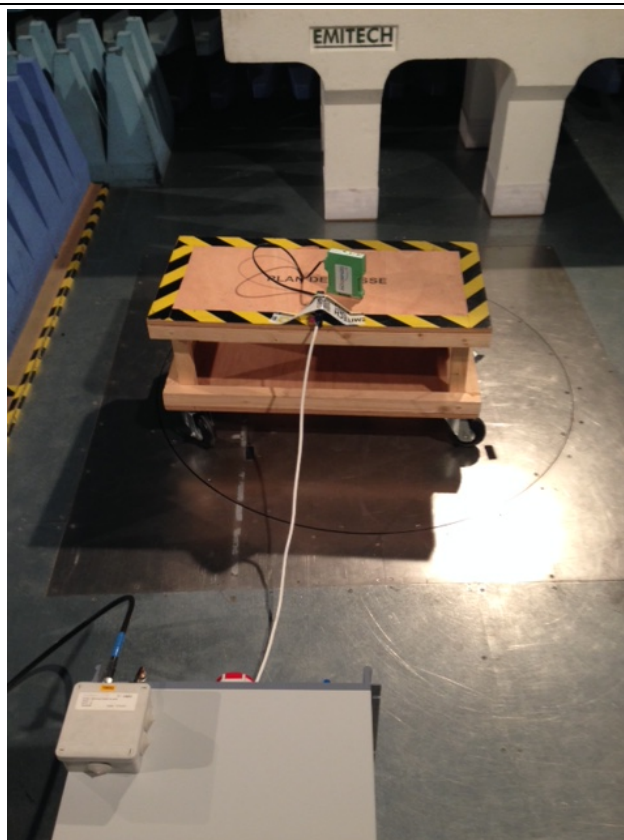
E.U.T. marking plate



Conducted voltage emission



Conducted voltage emission



AC/DC converter used to show compliance



AC/DC converter marking plate

