Test report issued under the responsibility of:
Test laboratory EMITECH ILE DE FRANCE
MRA US-EU Designation Number: FR0004 (S102)

RADIO TEST REPORT

FCC 47 CFR PART 15 : 2025

Company ..... :	***INNOVAL***
Address..... :	*Rue Eric Tabarly* *35530 NOYAL SUR VILAINE* *FRANCE*
Test item description. ..... :	***Farrowing detector***
Trade Mark. ..... :	*EASYFOAL*
Manufacturer..... :	*INNOVAL*
Model/Type reference..... :	Search Tool
Ratings..... :	*9 Vdc*
Testing Laboratory ..... :	**EMITECH ILE DE France Laboratory**
Address..... :	30-32, avenue des 3 Peuples 78180 MONTIGNY-LE-BRETONNEUX - FRANCE
Report Reference No..... :	**RCE-EMIESS24H695RFT-6A v0**
Test procedure. ..... :	FCC Certification
Diffusion..... :	JACQUES PELTIER
Applicant's name. ..... :	*RF TRACK*
Date of issue..... :	03/12/2025
Total number of pages..... :	37
Revision..... :	0
Compiled by..... :	N. PEREZ (Test technician)
Technical verification & Quality approval..... :	Pellerin Bruno Technical Entity Manager

REPORT INDEX:

REVISION HISTORY:

Revision	Date	Modified pages	Modifications
0	03/12/2025	/	Creation

1. GENERAL INFORMATION

TESTING PROCEDURE AND TESTING LOCATION:	
Testing Location ..... :	**EMITECH ILE DE France Laboratory**
Address. ..... :	30-32, avenue des 3 Peuples 78180 MONTIGNY-LE-BRETONNEUX - FRANCE
Test procedure. ..... :	FCC Certification
Tested by ..... :	N. PEREZ
Test supervisor ..... :	B. PELLERIN
Date of receipt of test item ..... :	08/09/2025
Dates of performance of tests ..... :	From 27/11 to 28/11/2025

APPLICANT'S GENERAL INFORMATIONS:	
Company name ..... :	***INNOVAL***
Company address. ..... :	*Rue Eric Tabarly* *35530 NOYAL SUR VILAINE* *FRANCE*
Person present during the tests. ..... :	-
Responsible. ..... :	JACQUES PELTIER

GENERAL REMARKS:

The information in italics is declared by the manufacturer and is under his responsibility.
The test results presented in this report relate only to the object tested.
The results contained in this report reflect the results for this particular model and serial number. It is the responsibility of the manufacturer to ensure that all production models meet the intent of the requirements detailed within this report.

"(see Enclosure #)" refers to additional information appended to the report.
"(see appended table)" refers to a table appended to the report.
Throughout this report the decimal separator is point.

POSSIBLE TEST CASE VERDICTS:	
Test case does not apply to the test object.. :	N/A
Test case not performed..... :	N/P
Test object does meet the requirement..... :	P (Pass)
Test object does not meet the requirement.. :	F (Fail)

DEFINITIONS AND ABBREVIATIONS:

E.U.T	Equipment Under Test	AE	Ancillary Equipment	Pk	Peak detector
RBW	Resolution BandWidth	VBW	Video BandWidth	QP	Quasi-peak detector
FSOATS	Free Space Open Area Test Site	FAR	Full Anechoic Room	Av	Average detector
V	Vertical Polarization	H	Horizontal Polarization	RMS	Root Mean Square
RF	Radio Frequency	N.T.R	Nothing To Report	N/C	Not Communicated

2. REFERENCE DOCUMENTS

NORMATIVE REFERENCES:
The following referenced documents are necessary for the application of the present test report. **FCC 47 CFR PART 15 : 2025** Code of federal regulations Title 47- Telecommunication Chapter 1- Federal Communication Commission **ANSI C63.10 : 2020** American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices. Although the product standard uses obsolete technical standards, the latest versions of standards achievable by the laboratory will be used for testing.
INFORMATIVE REFERENCES:
/

3. EQUIPMENT TECHNICAL DESCRIPTION

3.1. Test Conditions

Test item description. ..... :	Farrowing detector
Model/Type reference..... :	Search Tool
Trade Mark. ..... :	EASYFOAL
Serial number (S/N)..... :	25239523
Part number (P/N). ..... :	25239523
Software version..... :	OR_VN_V0306_09
Firmware version. ..... :	OR_VN_V0306_09
Fcc ID.....:	2BSNU-EFSV01STO01
Type of sample. ..... :	*Serial*
Function. ..... :	*Farrowing detection system*
Manufacturer name. ..... :	*INNOVAL*
Address. ..... :	Rue Eric Tabarly, 35530 NOYAL SUR VILAINE FRANCE

General product information: -

3.2. E.U.T Overview

3.3. E.U.T Marking Plate

3.4. E.U.T Modifications

-

3.5. E.U.T Electronic board

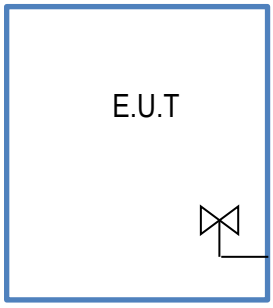
-

3.6. E.U.T Mechanical and Electrical Design

Power supply. ..... : *9Vdc*
Power supply range. ..... : *9VDc*
Power type. ..... : Zn-MnO2 (Alkaline), 9V, removable
Power (W). ..... : *N/C*
Nominal current (A). ..... : *N/C*
Dimensions (L x W x H) (m). ..... : 0.125 x 0.068 x 0.025
Weight (kg). ..... : *0.135*
Temperature range (°C). ..... : *-20 / +55*
Ground bounding strap. ..... : *No*

Comments:

3.7. E.U.T Input/Output ports



LoRa RF antenna

PORT	NAME	TYPE	LENGTH	CABLE TYPE	COMMENTS
0	*E.U.T*	*N/E*	*N/A*	*Plastic*	-
1	*LoRa*	*RF*	*Integrated*	-	-

AC/DC : AC/DC Converter port
I/O .....: Input or Output port
N/E .....: Non Electrical port
AC .....: Alternative current port
TP .....: Telecommunication port
DC ..... : Direct current port
RF..... : Radio frequency port

3.8. Supporting Equipment Used During Test

Sample subject to the tests was tested with following equipment.

PRODUCT TYPE	MANUFACTURER	MODEL	N°EMITECH / COMMENTS

(AE)

4. RESULT SUMMARY

B of the standard FCC part 15 – Unintentional radiators

TEST DESIGNATION	TEST PROCEDURE	VERDICT	COMMENTS
Measurement of conducted emission on AC mains ports	**15.107**	**N/A**	
Radiated emission limits	**15.109**	**N/A**	

Subpart C of the standard FCC part 15 – Unintentional radiators

TEST DESIGNATION	TEST PROCEDURE	VERDICT	COMMENTS
Restriction bands of operation	**15.205**	**PASS**	
Measurement of conducted emission on AC mains ports	**15.207**	**N/A**	
Radiated emission limits; general requirements	**15.209**	**PASS**	
Additional provision to the general radiated emission limitations	**15.215**		
-(a) Alternative to general radiated emission limits		**PASS**	
-(b) Unwanted emissions outside of § 15.247 frequency bands		**PASS**	
-(c) 20 dB bandwidth and band-edge compliance		**PASS**	
Intentional radiated emissions	**15.247**		
- a) frequency hopping and digitally modulated	**-**	**N/A**	
- a) (1) hopping mode	**-**	**N/A**	
- a) (1) (i) frequency hopping in the band 902-928 MHz	**-**	**N/A**	
- a) (1) (ii) frequency hopping in the band 5725–5850 MHz	**-**	**N/A**	
- a) (1) (iii) frequency hopping in the band 2400–2483.5 MHz	**-**	**N/A**	
- a) (2) systems using digital modulation in the bands 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz (6 dB bandwith)	**-**	**PASS**	
- b) maximum peak conducted	**-**		
- b) (1) frequency hopping in the bands 2400–2483.5 MHz or 5725–5850 MHz	**-**	**N/A**	
- b) (2) frequency hopping in the band 902-928 MHz	**-**	**N/A**	
- b) (3) systems using digital modulation in the bands 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz	**-**	**PASS**	
- b) (4) maximum peak conducted > 6 dBi	**-**	**N/A**	
- b) (4) (i) frequency hopping in the band 2400–2483.5 MHz	**-**	**N/A**	
- b) (4) (ii) frequency hopping in the band 5725–5850 MHz	**-**	**N/A**	
- b) (4) (iii) fixed, point-to-point	**-**	**N/A**	
- c) directional antenna > 6 dBi	**-**	**N/A**	
- c) (1) fixed, point-to-point operation	**-**	**N/A**	
- c) (1) (i) in the band 2400–2483.5 MHz	**-**	**N/A**	
- c) (1) (ii) in the band 5725–5850 MHz	**-**	**N/A**	
- c) (1) (iii) fixed, point-to-point	**-**	**N/A**	

TEST DESIGNATION	TEST PROCEDURE	VERDICT	COMMENTS
- c) (2) multiple directional beams in the band 2400–2483.5 MHz	-	N/A	
- c) (2) (i) information	-	N/A	
- c) (2) (ii) sum of the power supplied to all antennas	-	N/A	
- c) (2) (iii) one antenna for multiple directional beams	-	N/A	
- c) (2) (iv) single directional beam	-	N/A	
- d) intentional radiator	-	PASS	
- e) peak power spectral density	-	PASS	
- f) hybrid system	-	N/A	
- g) continuous data stream during the test	-	N/A	
- h) to avoid hopping on occupied channels	-	N/A	
- i) RF exposure compliance	-	N/A	P < 500 mW

5. EMC MEASUREMENT UNCERTAINTY

Uncertainties values presented below are required by standards:

PARAMETER	MAXIMAL EMITECH UNCERTAINTY	STANDARD UNCERTAINTY
Conducted emission		
Harmonics current 61000-3-2/3-12	± 5.0 %	± 5.00 %
Harmonics current 61000-3-12 (with probe)	± 5.9 %	/
Voltage fluctuation and flicker 61000-3-3/3-11	± 7.5 %	± 8.00 %
(Artificial Mains Network) 3kHz – 9kHz	± 3.8 dB	/
(Artificial Mains Network) 9kHz – 150kHz	± 3.6 dB	± 3.8 dB
(Artificial Mains Network) 150kHz – 30MHz	± 3.4 dB	± 3.4 dB
(Voltage probe) 9kHz – 30MHz	± 2.9 dB	± 2.9 dB
(Asymmetric Artificial Network) 150kHz – 30MHz	± 3.5 dB	± 5.0 dB
(Current measurement) 150kHz – 30MHz	± 2.9 dB	± 2.9 dB
(Capacitive Voltage Probe) 150kHz – 30MHz	± 3.6 dB	± 4.0 dB
(Discontinuous) 150kHz – 30MHz	± 3.4 dB	± 3.4 dB
(Van Veen) 9kHz – 30MHz	± 3.3 dB	± 3.3 dB
(Coupling Decoupling Network) 30MHz – 300MHz	± 3.5 dB	± 3.8 dB
(Splitter) 30MHz – 2.15GHz	± 3.4 dB	/
Disturbance power		
30MHz – 300MHz	± 4.4 dB	± 4.5 dB
Radiated emission		
(magnetic field) 9kHz – 30MHz	± 2.7 dB	/
(electric field in the OATS/SAC) 30MHz – 1GHz	± 5.2 dB	± 6.3 dB
(electric field in the FAR) 30MHz – 1GHz	± 5.2 dB	± 5.3 dB
(electric field in the FSOATS/FAR) 1GHz - 6GHz	± 5.0 / 5.2 dB	± 5.2 dB
(electric field in the FSOATS/FAR) 6GHz - 18GHz	± 5.3 / 5.4 dB	± 5.5 dB
(electric field) 18GHz - 40GHz	± 6.1 dB	/
(electric field) 40GHz - 140GHz	± 5.7 dB	/

For the calculation of expanded uncertainty, the confidence interval is 95 % (k=2).

OATS: Open Area Test Site
SAC: Semi Anechoic Chamber
FAR: Fully Anechoic Room

6. TEST CONDITIONS AND RESULTS

6.1. Digital modulation systems

Reference standard:	FCC 47 CFR PART 15 : 2025
Test method:	§ 15.247 a) (2) of FCC 47 CFR PART 15 : 2025
General test setup: E.U.T. is set on an insulating support at 80 cm above the ground reference plane. Measurement are done on a normalized test site by the substitution method. The test antenna is oriented in the two polarizations (vertical and horizontal), and the product is rotated at 360° in the horizontal plane (See photos for initial position of the EUT(0°)). If applicable the test antenna was raised and lowered through the specified range of height until a maximum signal level is detected. For portable equipements a research of maximum level is done on the 3 axes. Only the highest levels are recorded.	

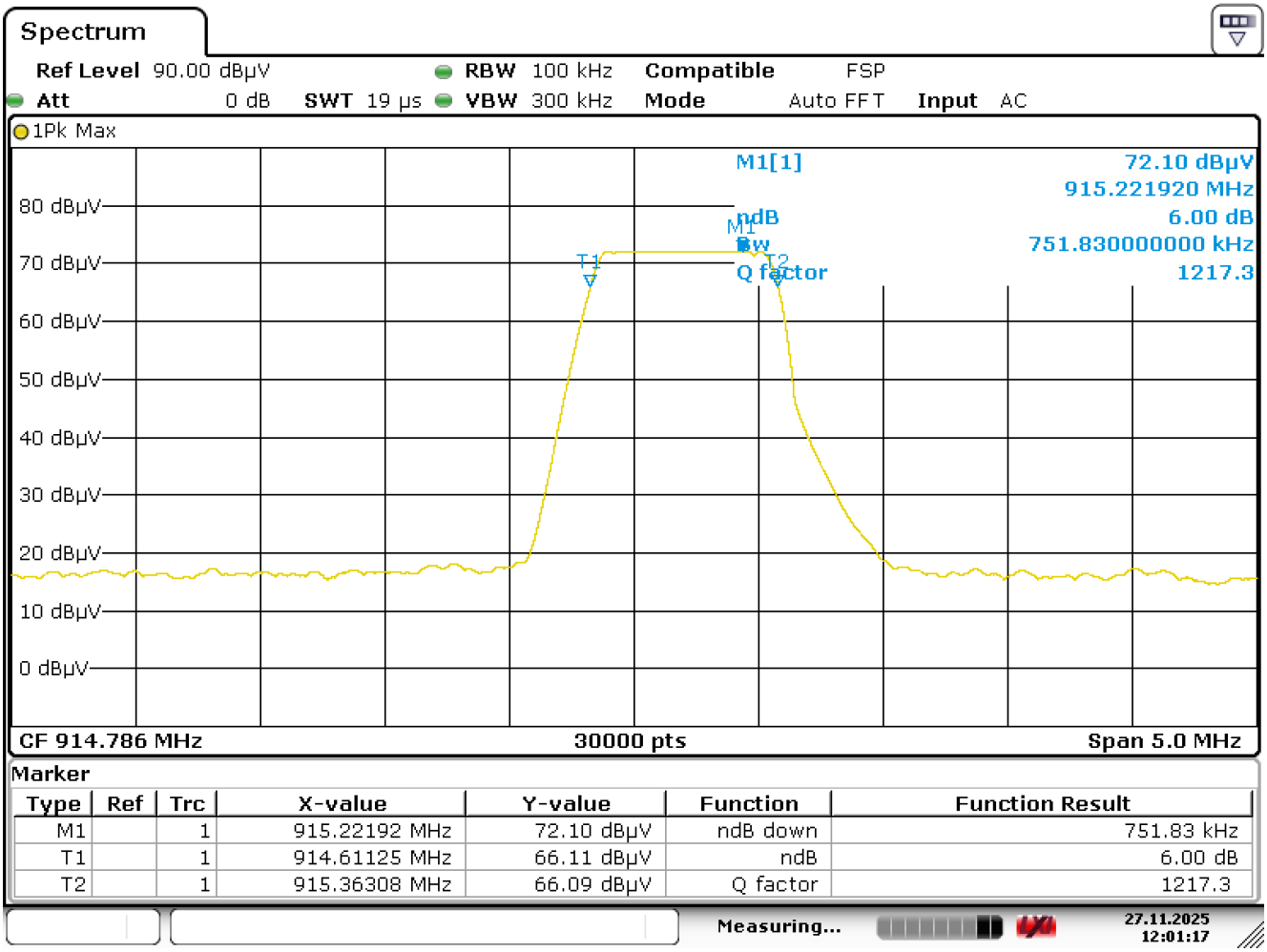
LABORATORY PARAMETERS:	REQUIRED PRIOR TO THE TEST	DURING THE TEST
Ambient Temperature	10 to 40 °C	21°C
Relative Humidity	10 to 90 %	58%
Atmospheric pressure	N/A	-
Test method deviation: No		
Supplementary information: -		

TEST EQUIPMENT USED					
CATEGORY	BRAND	TYPE	IDENTIFIER	CAL. DATE	CAL. DUE
-	Testo	608-H1	16605	04/01/2024	04/03/2026
Antenna	Schwarzbeck	UHALP 9108A	03106	12/06/2025	12/08/2027
Attenuator	Rohde & Schwarz	272.4210.50	10813	05/02/2025	05/04/2027
Cable	Huber + Suhner	N-6m	17270	30/08/2024	30/10/2026
Cable	Hytem	HY17D53UFA0200017D	19859	14/08/2024	14/10/2026
Cable	Hytem	HY17D53UFA0400017D	19868	14/08/2024	14/10/2026
Cable	Hytem	HY17D53UFA0400017D	19870	14/08/2024	14/10/2026
Receiver	Rohde & Schwarz	ESRP7	10517	13/11/2023	13/01/2026
Shielded enclosure	Comtest	SAC 3m	14622	25/08/2025	25/10/2028

TEST SETUP PHOTO


6 dB Bandwidth single channel 915 MHz

Frequency (MHz)	Azimuth (°)	Antenna Hight (cm)	Results (MHz)
915.2	70	100	0.752



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6.2. Transmitter output power

Reference standard:	FCC 47 CFR PART 15 : 2025
Test method:	§ 15.247 b) (3) of FCC 47 CFR PART 15 : 2025

General test setup: E.U.T. is set on an insulating support at 80 cm above the ground reference plane.

Measurement are done on a normalized test site by the substitution method.

The test antenna is oriented in the two polarizations (vertical and horizontal), and the product is rotated at 360° in the horizontal plane (See photos for initial position of the EUT(0°)). If applicable the test antenna was raised and lowered through the specified range of height until a maximum signal level is detected.

For portable equipements a research of maximum level is done on the 3 axes. Only the highest levels are recorded.

LABORATORY PARAMETERS:	REQUIRED PRIOR TO THE TEST	DURING THE TEST
Ambient Temperature	10 to 40 °C	21°C
Relative Humidity	10 to 90 %	58%
Atmospheric pressure	N/A	-

Test method deviation: No

Supplementary information: -

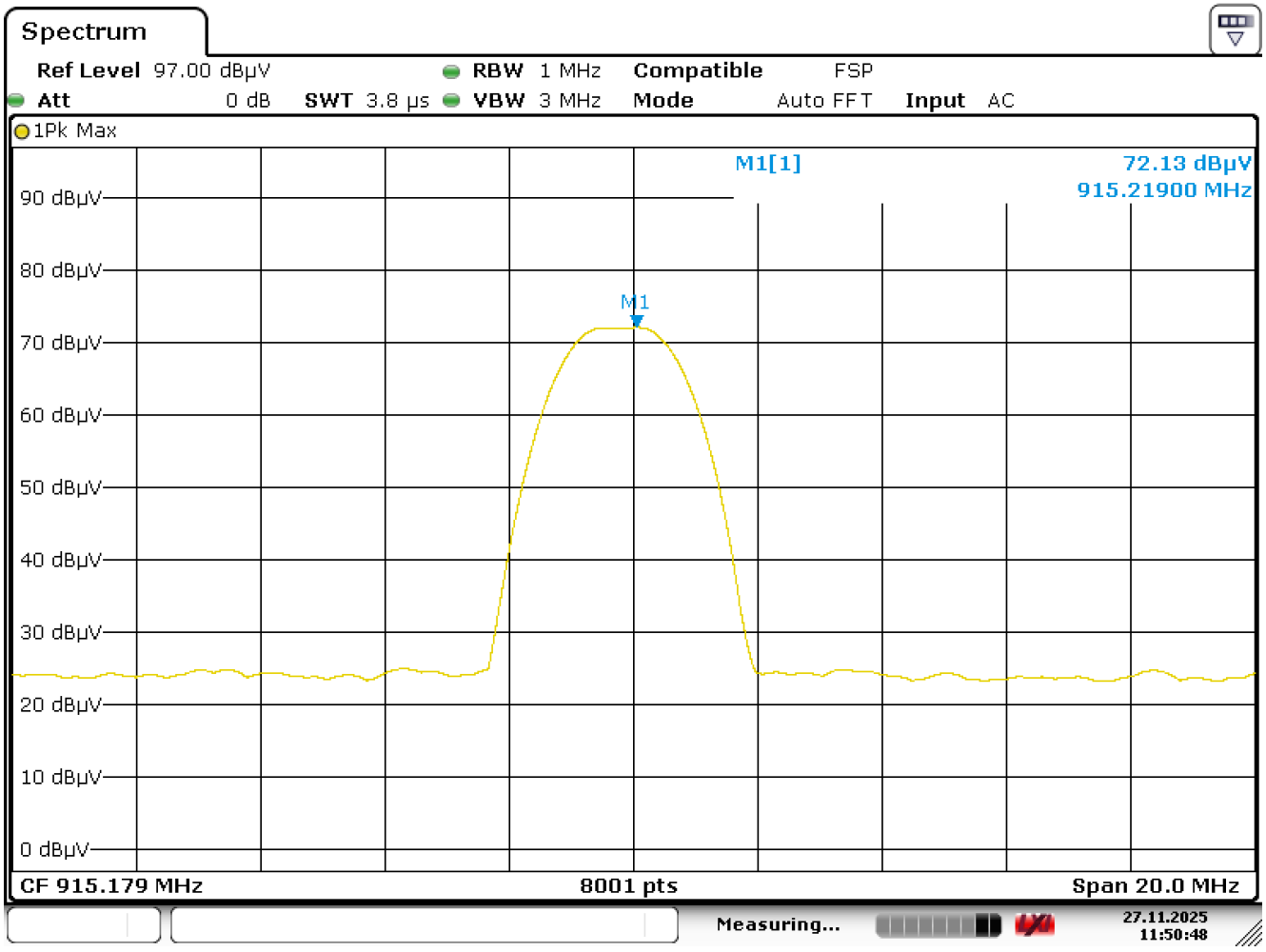
TEST EQUIPMENT USED					
CATEGORY	BRAND	TYPE	IDENTIFIER	CAL. DATE	CAL. DUE
-	Testo	608-H1	16605	04/01/2024	04/03/2026
Antenna	Schwarzbeck	UHALP 9108A	03106	12/06/2025	12/08/2027
Attenuator	Rohde & Schwarz	272.4210.50	10813	05/02/2025	05/04/2027
Cable	Huber + Suhner	N-6m	17270	30/08/2024	30/10/2026
Cable	Hytem	HY17D53UFA0200017D	19859	14/08/2024	14/10/2026
Cable	Hytem	HY17D53UFA0400017D	19868	14/08/2024	14/10/2026
Cable	Hytem	HY17D53UFA0400017D	19870	14/08/2024	14/10/2026
Receiver	Rohde & Schwarz	ESRP7	10517	13/11/2023	13/01/2026
Shielded enclosure	comtest	SAC 3m	14622	25/08/2025	25/10/2028

TEST SETUP PHOTO


Single channel 915 MHz

Frequency (MHz)	Azimuth (°)	Antenna Hight (cm)	Electro-magnetic field (dBuV/m)	TP* (dBm)	Limit (dBm)
915.2	0	100	96.7	-0.7	+30

*TP = (E x d)2 / (30 x 1.64) for d = 3



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6.3. Peak power spectral density

Reference standard:	FCC 47 CFR PART 15 : 2025
Test method:	§ 15.247 2) (e) of FCC 47 CFR PART 15 : 2025

General test setup: E.U.T. is set on an insulating support at 80 cm above the ground reference plane.

Measurement are done on a normalized test site by the substitution method.

The test antenna is oriented in the two polarizations (vertical and horizontal), and the product is rotated at 360° in the horizontal plane (See photos for initial position of the EUT(0°)). If applicable the test antenna was raised and lowered through the specified range of height until a maximum signal level is detected.

For portable equipements a research of maximum level is done on the 3 axes. Only the highest levels are recorded.

LABORATORY PARAMETERS:	REQUIRED PRIOR TO THE TEST	DURING THE TEST
Ambient Temperature	10 to 40 °C	21°C
Relative Humidity	10 to 90 %	58%
Atmospheric pressure	N/A	-

Test method deviation: No

Supplementary information: -

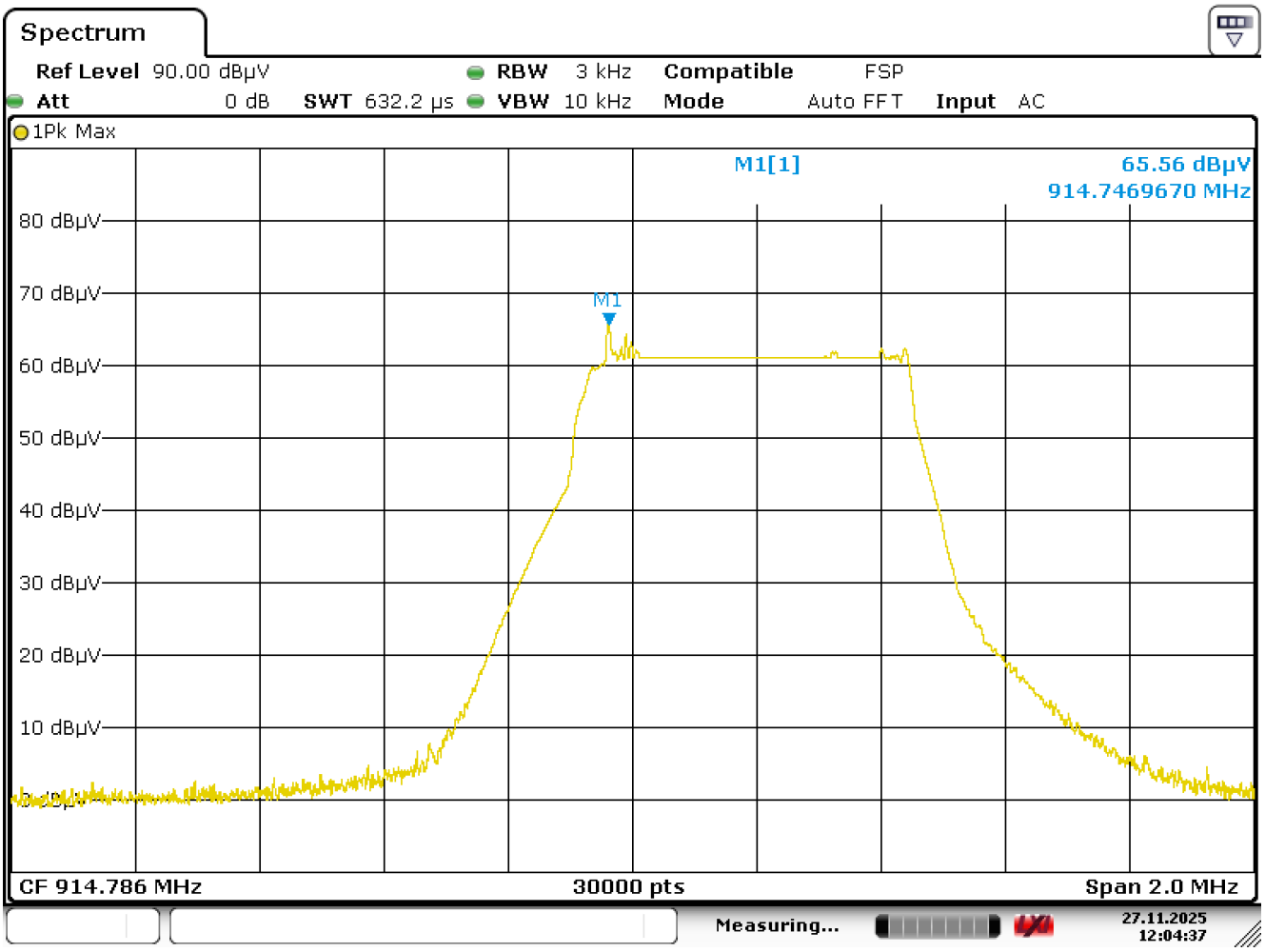
TEST EQUIPMENT USED					
CATEGORY	BRAND	TYPE	IDENTIFIER	CAL. DATE	CAL. DUE
-	Testo	608-H1	16605	04/01/2024	04/03/2026
Antenna	Schwarzbeck	UHALP 9108A	03106	12/06/2025	12/08/2027
Attenuator	Rohde & Schwarz	272.4210.50	10813	05/02/2025	05/04/2027
Cable	Huber + Suhner	N-6m	17270	30/08/2024	30/10/2026
Cable	Hytem	HY17D53UFA0200017D	19859	14/08/2024	14/10/2026
Cable	Hytem	HY17D53UFA0400017D	19868	14/08/2024	14/10/2026
Cable	Hytem	HY17D53UFA0400017D	19870	14/08/2024	14/10/2026
Receiver	Rohde & Schwarz	ESRP7	10517	13/11/2023	13/01/2026
Shielded enclosure	Comtest	SAC 3m	14622	25/08/2025	25/10/2028

TEST SETUP PHOTO


Single channel 915 MHz

Frequency (MHz)	Azimuth (°)	Antenna Hight (cm)	Electro-magnetic field (dBuV/m)	PSD* (dBm/3kHz)	Limit (dBm/3kHz)
915.2	0	100	100.4	-7.1	8

*PSD = (E x d)2 / (30 x 1.64) for d = 3 m



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6.4. Additional provisions to the general radiated emissions limitation

Reference standard:	FCC 47 CFR PART 15 : 2025
Test method:	§ 15.247 2) (d) of FCC 47 CFR PART 15 : 2025

General test setup: E.U.T. is set on an insulating support at 80 cm above the ground reference plane.

Measurement are done on a normalized test site by the substitution method.

The test antenna is oriented in the two polarizations (vertical and horizontal), and the product is rotated at 360° in the horizontal plane (See photos for initial position of the EUT(0°)). If applicable the test antenna was raised and lowered through the specified range of height until a maximum signal level is detected.

For portable equipements a research of maximum level is done on the 3 axes. Only the highest levels are recorded.

LABORATORY PARAMETERS:	REQUIRED PRIOR TO THE TEST	DURING THE TEST
Ambient Temperature	10 to 40 °C	21°C
Relative Humidity	10 to 90 %	58%
Atmospheric pressure	N/A	-

Test method deviation: No

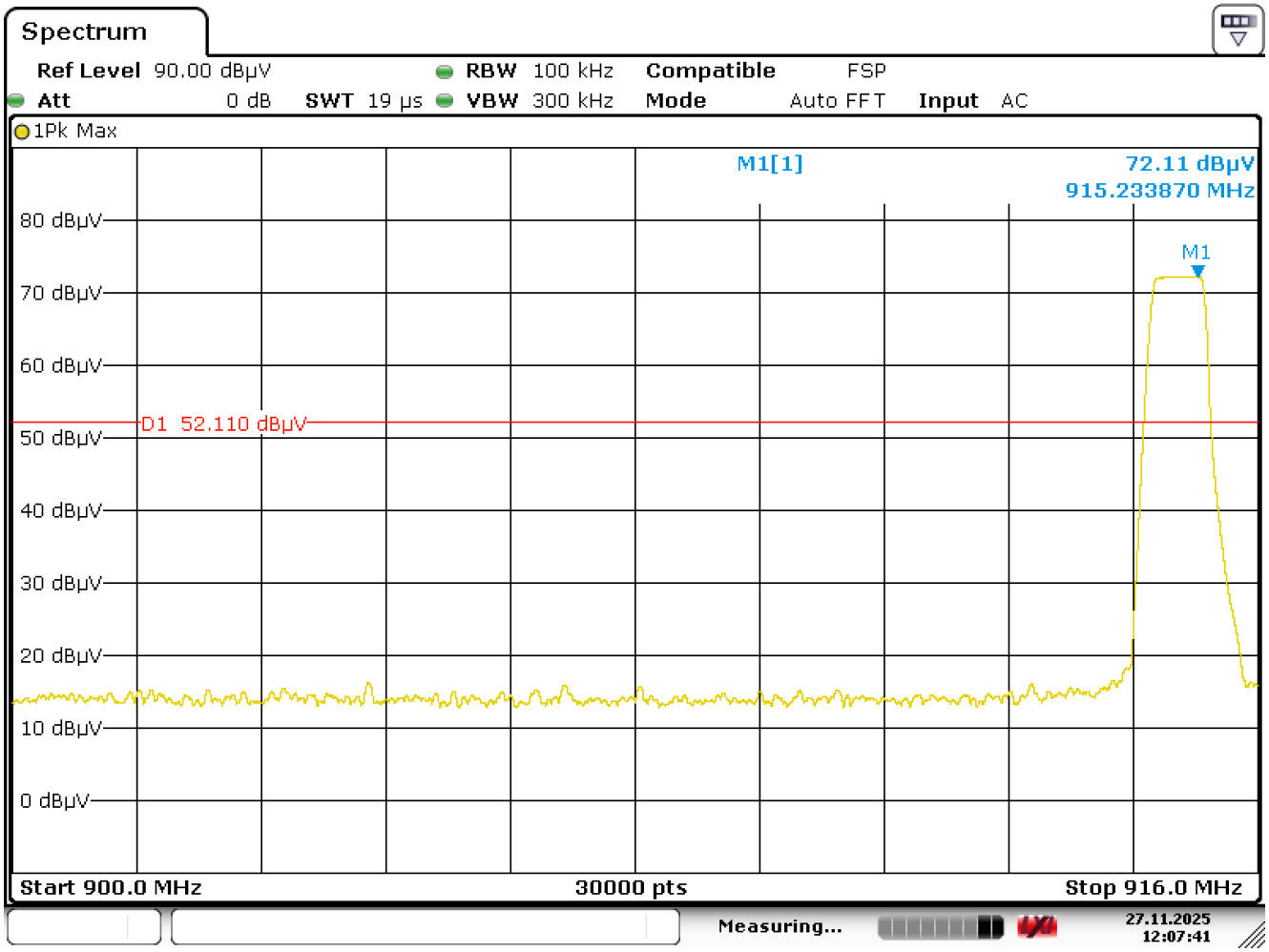
Supplementary information: -

TEST EQUIPMENT USED					
CATEGORY	BRAND	TYPE	IDENTIFIER	CAL. DATE	CAL. DUE
-	Testo	608-H1	16605	04/01/2024	04/03/2026
Antenna	Schwarzbeck	UHALP 9108A	03106	12/06/2025	12/08/2027
Attenuator	Rohde & Schwarz	272.4210.50	10813	05/02/2025	05/04/2027
Cable	Huber + Suhner	N-6m	17270	30/08/2024	30/10/2026
Cable	Hytem	HY17D53UFA0200017D	19859	14/08/2024	14/10/2026
Cable	Hytem	HY17D53UFA0400017D	19868	14/08/2024	14/10/2026
Cable	Hytem	HY17D53UFA0400017D	19870	14/08/2024	14/10/2026
Receiver	Rohde & Schwarz	ESRP7	10517	13/11/2023	13/01/2026
Shielded enclosure	Comtest	SAC 3m	14622	25/08/2025	25/10/2028

TEST SETUP PHOTO


Single channel 915 MHz

Lower Band Edge : from 900 MHz to 902 MHz
Upper Band Edge : from 928 MHz to 930 MHz



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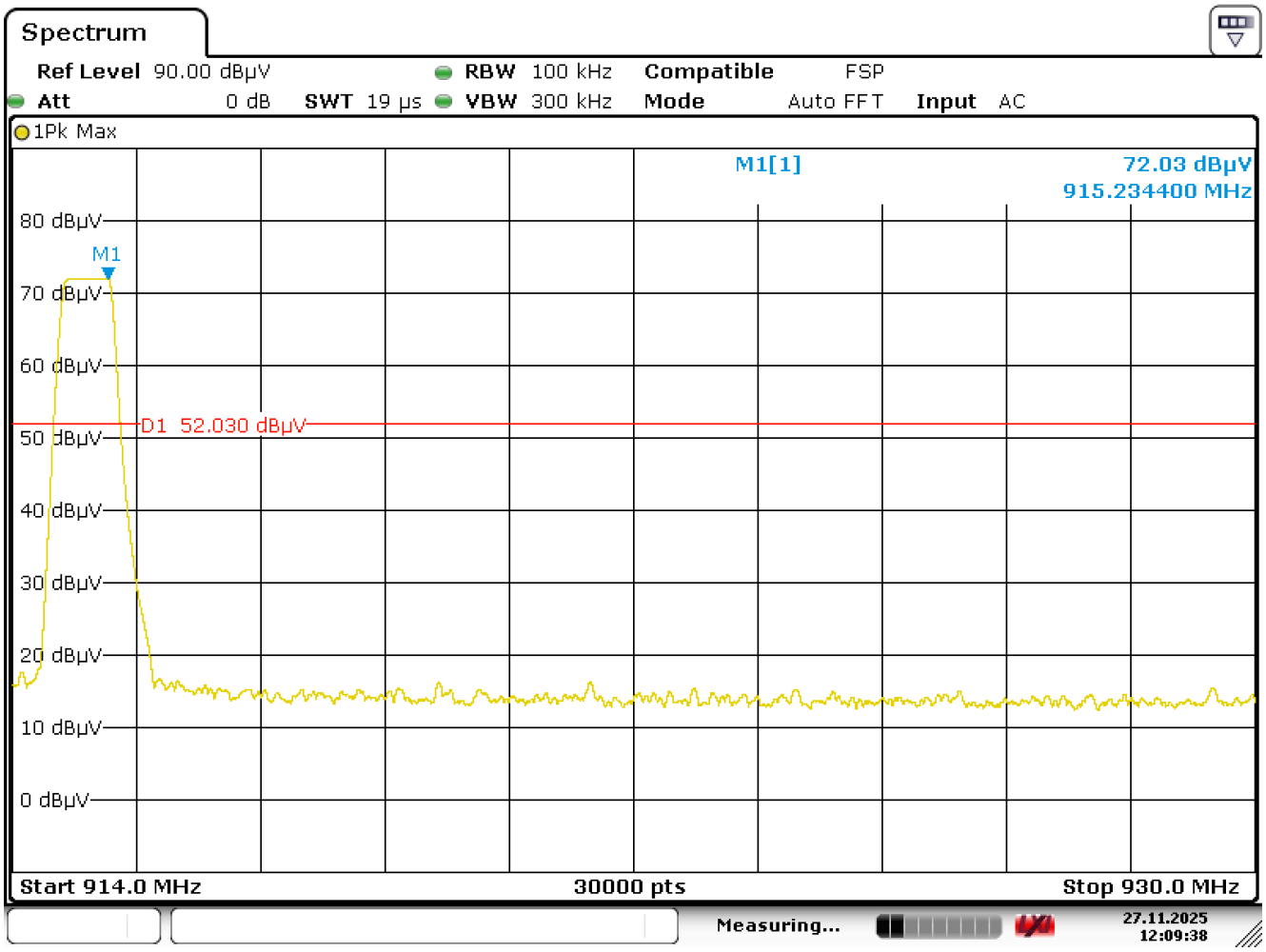

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6.5. Measurement of radiated disturbances

Reference standard:	FCC 47 CFR PART 15 : 2025
Test method:	§ 15.109 of FCC 47 CFR PART 15 : 2025 § 15.209 of FCC 47 CFR PART 15 : 2025
General test setup: E.U.T is set on an insulating support at 80 cm above the ground reference plane. First (peak) measurements were performed at an antenna to E.U.T separation distance of 3-meter. The E.U.T was rotated 360° about its azimuth with the receive antenna located in horizontal and vertical polarities and, for SAC method, at various heights. Final measurements (quasi-peak) were then performed in a reference test site that complies to CISPR 16-1-4. The E.U.T was rotated 360° about its azimuth and, for SAC method, adjusting the receive antenna height from 1 to 4 m. All frequencies were investigated in both horizontal and vertical antenna polarization, where applicable.	

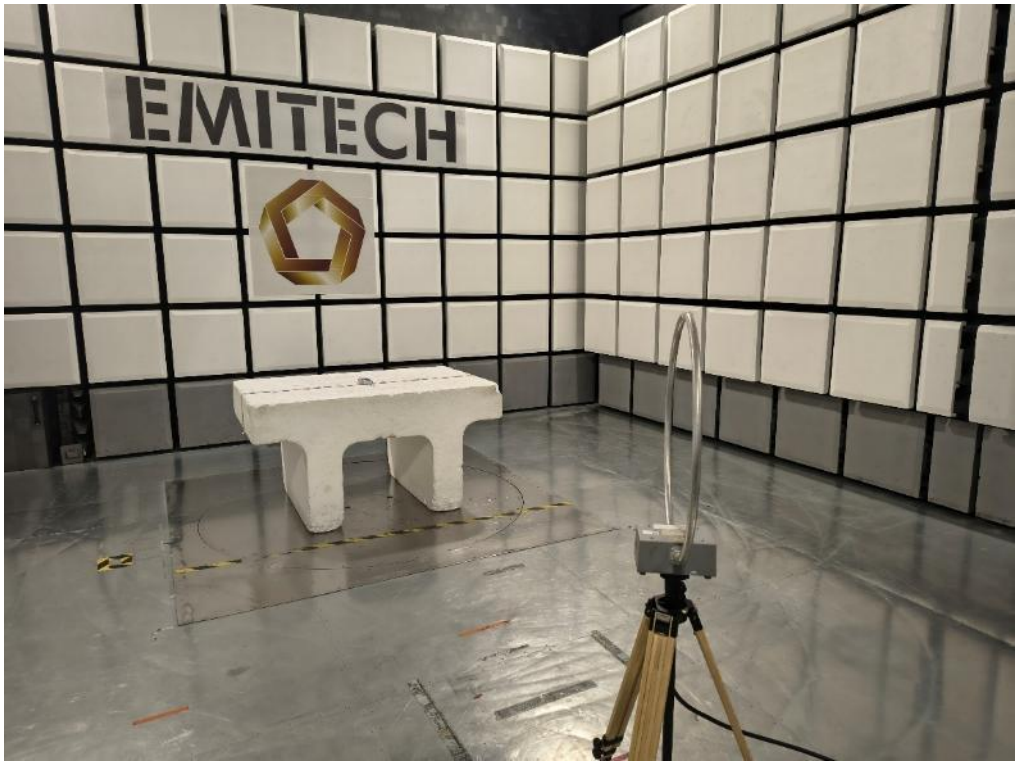
TESTED CONFIGURATION	PARAMETER	RESULT TAB.	VERDICT
LORA radio function in TX mode - ANT 0° Maxhold 360°	9kHz-30MHz	EMI4503	**PASS**
LORA radio function in TX mode - ANT 45° - Maxhold 360°	9kHz-30MHz	EMI4501	**PASS**
LORA radio function in TX mode - ANT 90° - Maxhold 360°	9kHz-30MHz	EMI4502	**PASS**
LORA radio function in TX mode - Maxhold 360°	30MHz-1GHz	EMI4461	**PASS**
LORA radio function in RX mode - Maxhold 360°	30MHz-1GHz	EMI4462	**PASS**
LORA radio function in TX mode - Maxhold 360°	1GHz-10GHz	EMI4615	**PASS**
LORA radio function in RX mode - Maxhold 360°	1GHz-10GHz	EMI4616	**PASS**

LABORATORY PARAMETERS:	REQUIRED PRIOR TO THE TEST	DURING THE TEST
Ambient Temperature	10 to 40 °C	*See Graph(s)*
Relative Humidity	10 to 90 %	*See Graph(s)*
Atmospheric pressure	N/A	*See Graph(s)*
Test method deviation: No		
Supplementary information: -		

TEST EQUIPMENT USED					
CATEGORY	BRAND	TYPE	IDENTIFIER	CAL. DATE	CAL. DUE
-	Testo	608-H1	16605	04/01/2024	04/03/2026
Amplifier	Mini-circuit	ZFL-1000-LN	06368	27/02/2025	27/04/2026
Amplifier	Com-Power	PAM-118A	17034	11/08/2025	11/10/2026
Antenna	Emco	3115	00941	24/02/2025	24/04/2028
Antenna	Schwarzbeck	UHALP 9108A	03106	12/06/2025	12/08/2027
Antenna	Emco	6502	09579	06/02/2025	06/04/2027
Antenna	Schwarzbeck	VHBB 9124 + BBA 9106	19406	15/02/2024	15/04/2026
Attenuator	Rohde & Schwarz	272.4210.50	10813	05/02/2025	05/04/2027
Attenuator	Hytem	03.02.917	19811	02/09/2025	02/11/2028
Cable	Huber + Suhner	N-6m	17270	30/08/2024	30/10/2026
Cable	Hytem	HY17D53UFA0200017D	19859	14/08/2024	14/10/2026
Cable	Hytem	HY17D53UFA0400017D	19868	14/08/2024	14/10/2026
Cable	Hytem	HY17D53UFA0400017D	19870	14/08/2024	14/10/2026
Filter	Filtek	HP12-1225	06356	29/09/2025	29/11/2028
Receiver	Rohde & Schwarz	ESIB26	06089	29/08/2024	29/10/2026
Receiver	Rohde & Schwarz	ESRP7	10517	13/11/2023	13/01/2026
Receiver	Rohde & Schwarz	ESIB7	16532	28/10/2025	28/12/2027
Shielded enclosure	Comtest	SAC 3m	14622	25/08/2025	25/10/2028
Software	Nexio	BAT EMC	00000	---	---

BAT-EMC software version: V3.18.0.26

TEST SETUP PHOTOS - 9KHZ - 30 MHZ

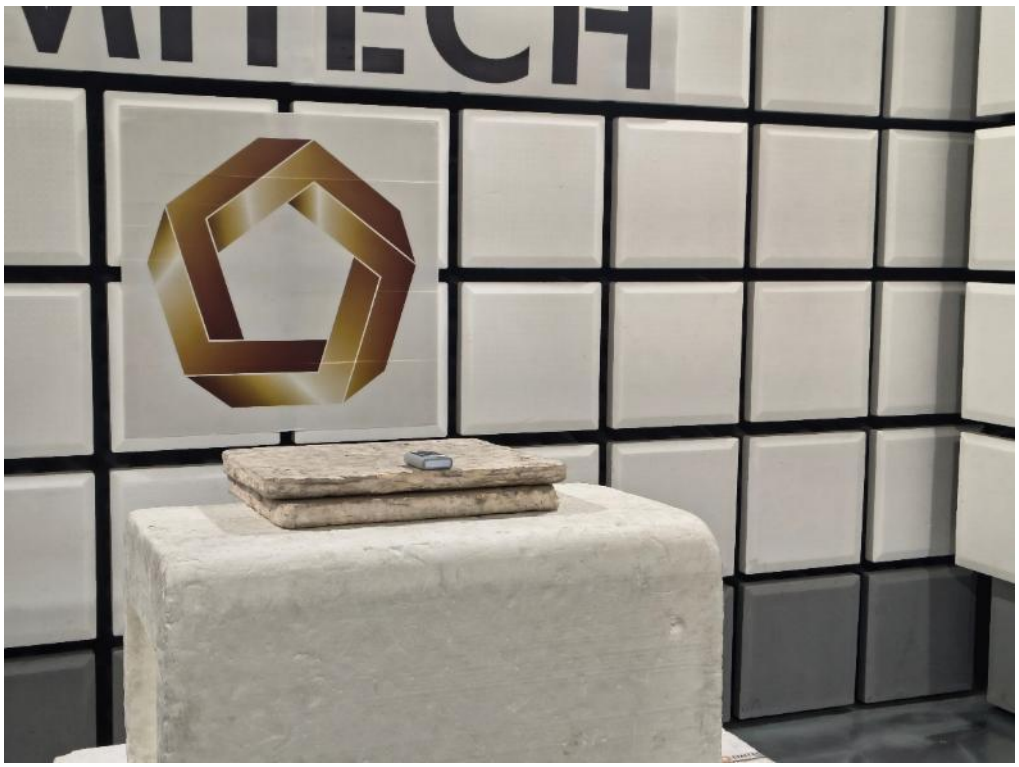


TEST SETUP PHOTOS - 9KHZ - 30 MHZ

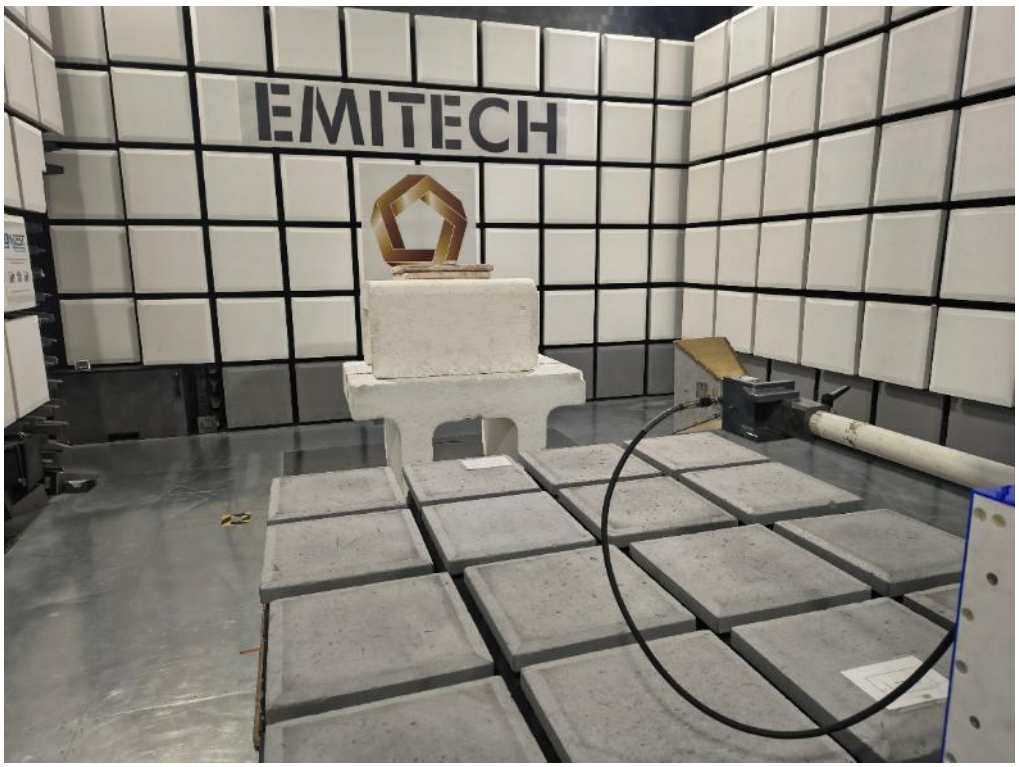
TEST SETUP PHOTOS - - 30MHZ - 1GHZ

TEST SETUP PHOTOS - 1GHZ - 10GHZ

TEST SETUP PHOTOS - 1GHZ - 10GHZ



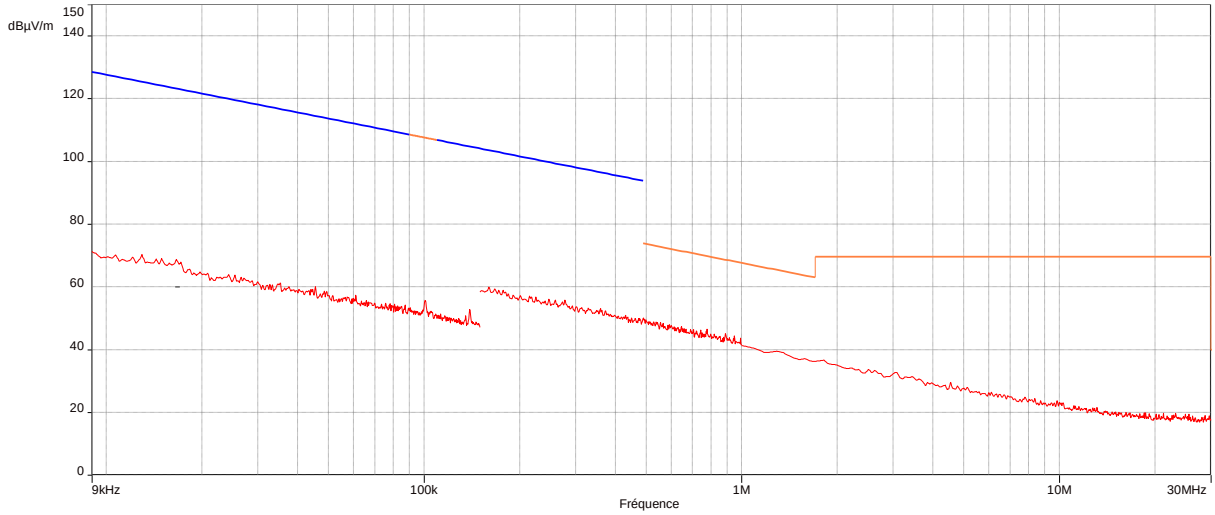
TEST SETUP PHOTOS - 1GHZ - 10GHZ



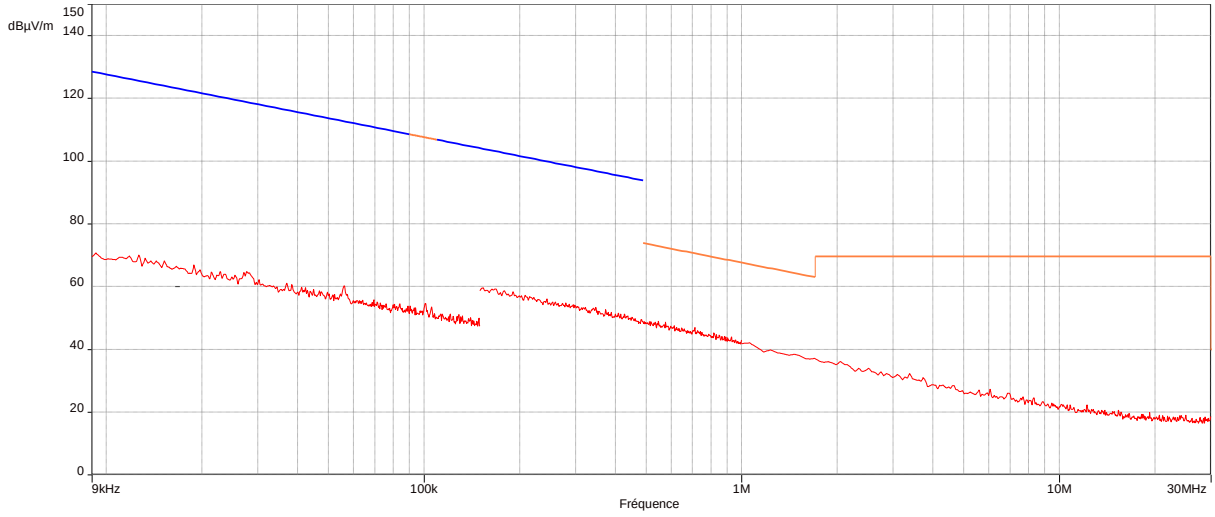
MEASUREMENT OF RADIATED DISTURBANCES - GRAPH			
MAXHOLD 360° 9KHZ - 30 MHZ		EMI4503	
E.U.T. mode:	TX mode	**T (°C):**	21
Test Date:	27/11/2025	**H (%):**	53
Test Operator:	NPe	**P (hPa):**	-

Red : Peak detection - Orange: Quasi-peak limit - Blue: Average limit

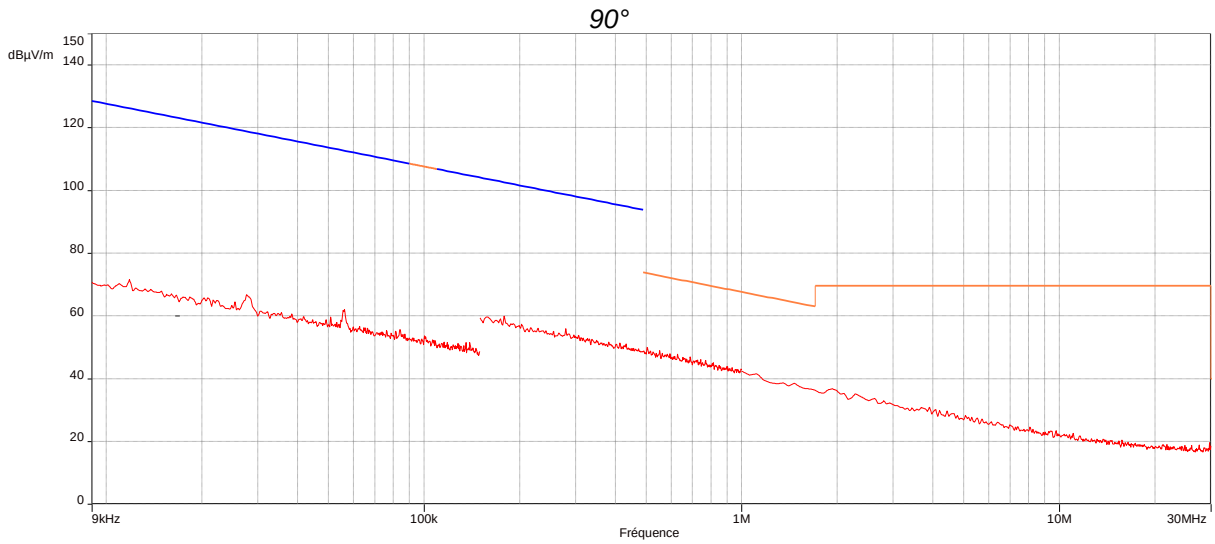
0°



45°



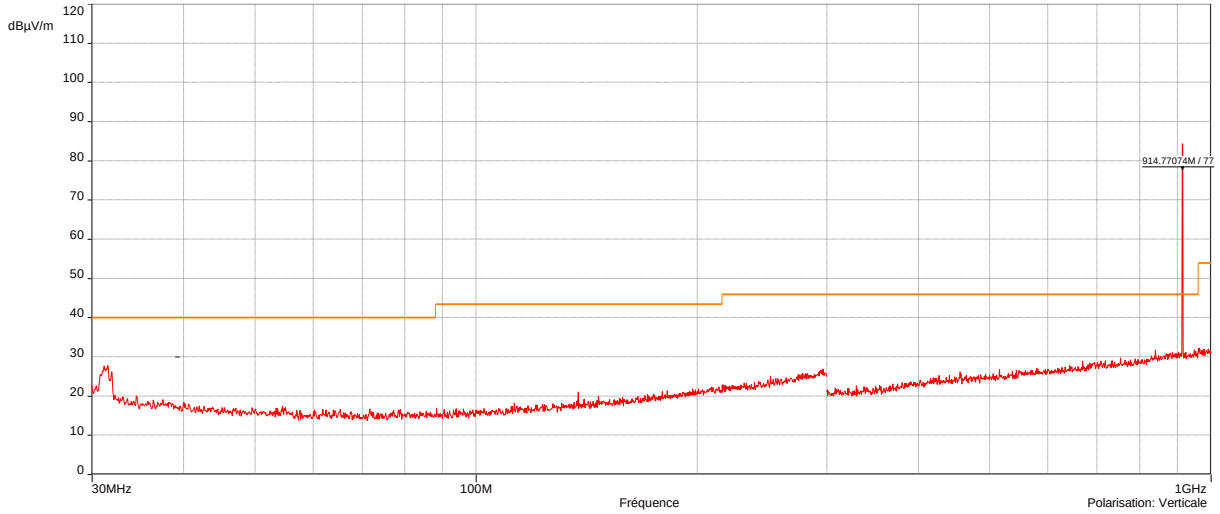
MEASUREMENT OF RADIATED DISTURBANCES - GRAPH	
MAXHOLD 360° 9KHZ - 30 MHZ	EMI4503

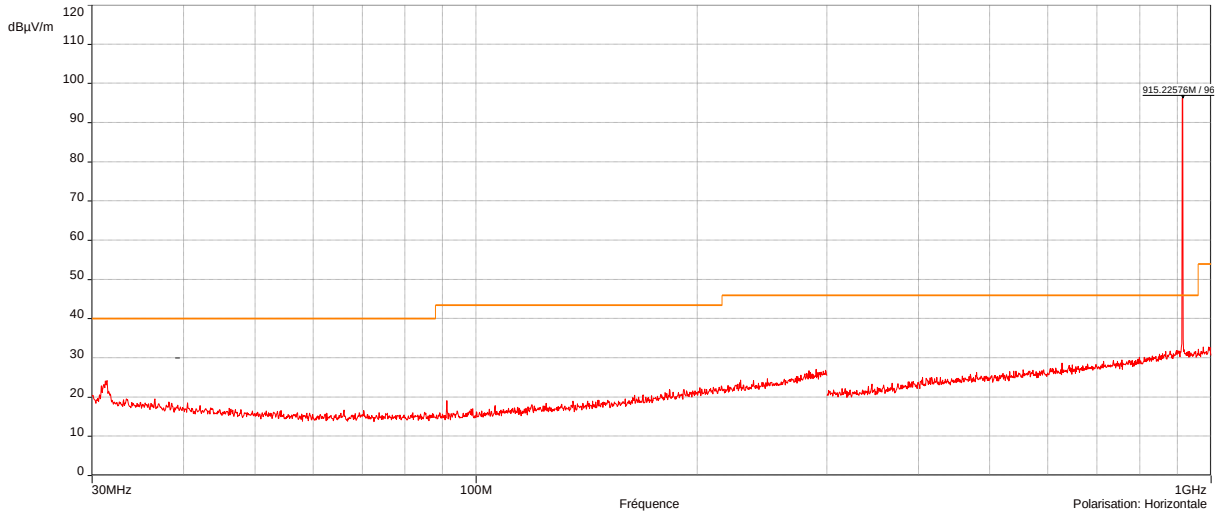


POSITION	FREQUENCIES	RBW	VBW	DETECTOR
H/V	9kHz-150kHz	1kHz	3kHz	Peak
H/V	150kHz-1MHz	10kHz	30kHz	Peak
H/V	1MHz-30MHz	10kHz	30kHz	Peak
Configuration:	-			
Comments:	Spurious that are lower than 10 dB of the applicable limit are not reported			
E.U.T. modification: No				

MEASUREMENT OF RADIATED DISTURBANCES - GRAPH			
MAXHOLD 360° - 30MHz - 1GHz		EMI4458	
TX mode	TX mode	**T (°C):**	22°C
Test Date:	27/11/2025	**H (%):**	50%
Test Operator:	NPe	**P (hPa):**	-

Red : Peak detection - Orange: Quasi-peak limit

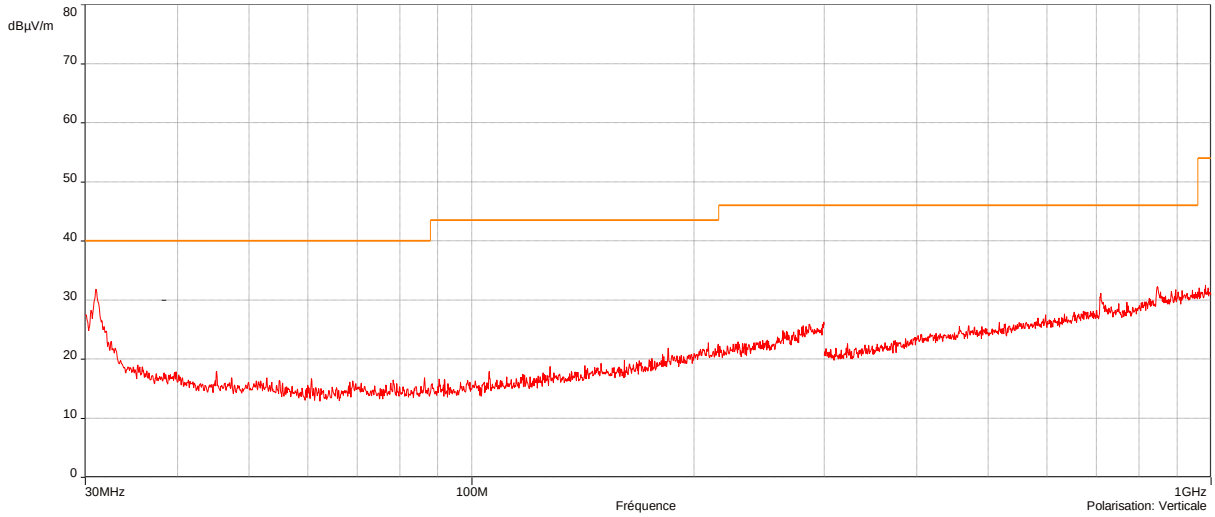


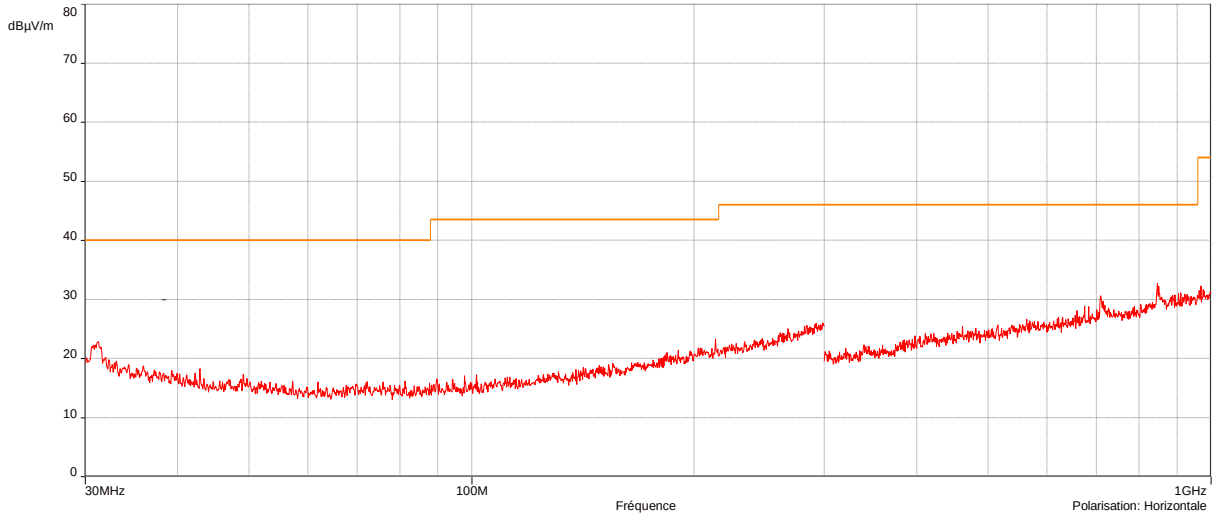


POSITION	FREQUENCIES	RBW	VBW	DETECTOR
Vertical	30MHz-100MHz	100kHz	300kHz	Peak
Vertical	100MHz-300MHz	100kHz	300kHz	Peak
Vertical	300MHz-600MHz	100kHz	300kHz	Peak
Vertical	600MHz-1GHz	100kHz	300kHz	Peak
Horizontal	30MHz-100MHz	100kHz	300kHz	Peak
Horizontal	100MHz-300MHz	100kHz	300kHz	Peak
Horizontal	300MHz-600MHz	100kHz	300kHz	Peak
Horizontal	600MHz-1GHz	100kHz	300kHz	Peak
Configuration:	-			
Comments:	Spurious that are lower than 10 dB of the applicable limite are not reported. The frequency at 915 MHz is the frequency used by the LoRa radio module.			
E.U.T. modification: No				

MEASUREMENT OF RADIATED DISTURBANCES - GRAPH			
MAXHOLD 360° - 30MHZ - 1GHZ		EMI4460	
E.U.T. mode:	RX mode	**T (°C):**	22°C
Test Date:	27/11/2025	**H (%):**	50%
Test Operator:	NPe	**P (hPa):**	-

Red : Peak detection - Orange: Quasi-peak limit

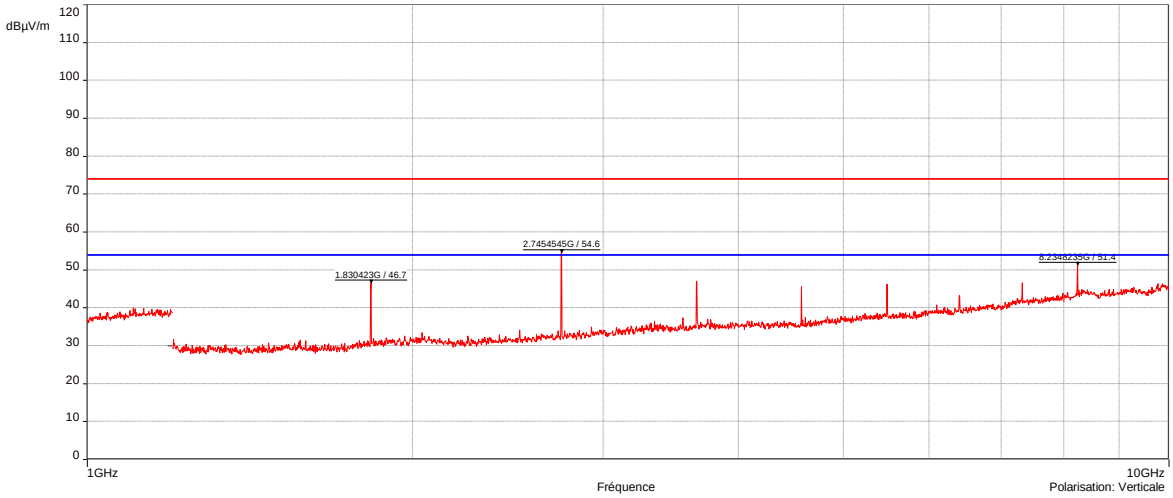


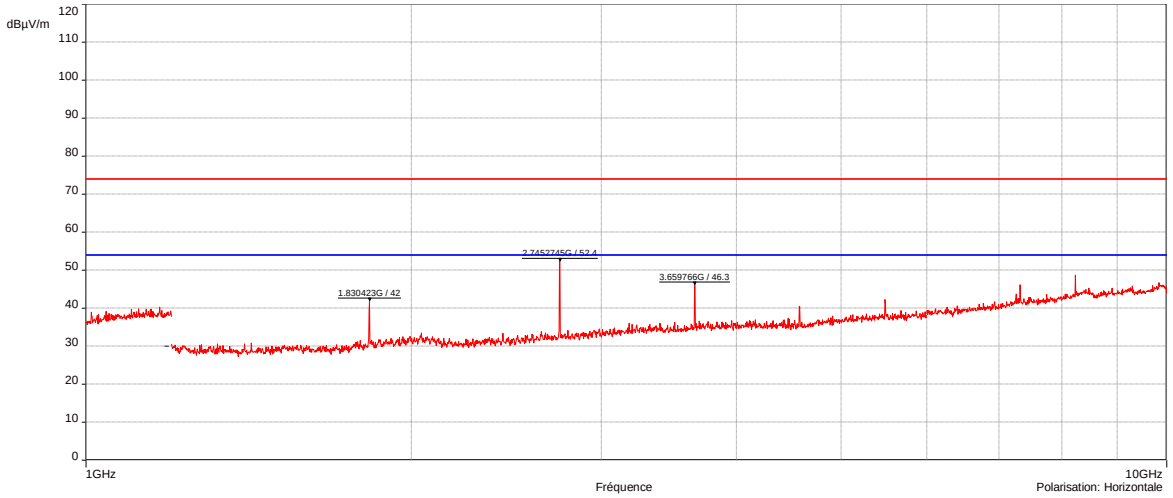


POSITION	FREQUENCIES	RBW	VBW	DETECTOR
Vertical	30MHz-100MHz	100kHz	300kHz	Peak
Vertical	100MHz-300MHz	100kHz	300kHz	Peak
Vertical	300MHz-600MHz	100kHz	300kHz	Peak
Vertical	600MHz-1GHz	100kHz	300kHz	Peak
Horizontal	30MHz-100MHz	100kHz	300kHz	Peak
Horizontal	100MHz-300MHz	100kHz	300kHz	Peak
Horizontal	300MHz-600MHz	100kHz	300kHz	Peak
Horizontal	600MHz-1GHz	100kHz	300kHz	Peak
Configuration:	-			
Comments:	Spurious that are lower than 10 dB of the applicable limite are not reported.			
E.U.T. modification: No				

MEASUREMENT OF RADIATED DISTURBANCES - GRAPH			
MAXHOLD 360° - 1GHz - 10GHz		EMI4586	
E.U.T. mode:	Tx mode	**T (°C):**	21
Test Date:	27/11/2025	**H (%):**	41
Test Operator:	NPe	**P (hPa):**	-

Red : Peak detection - Blue: Average limit



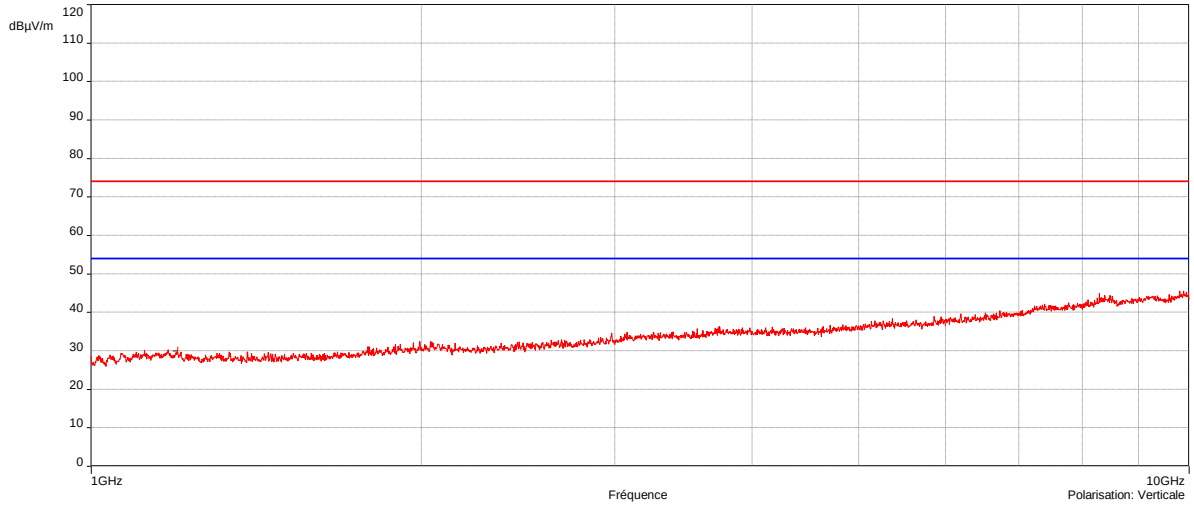


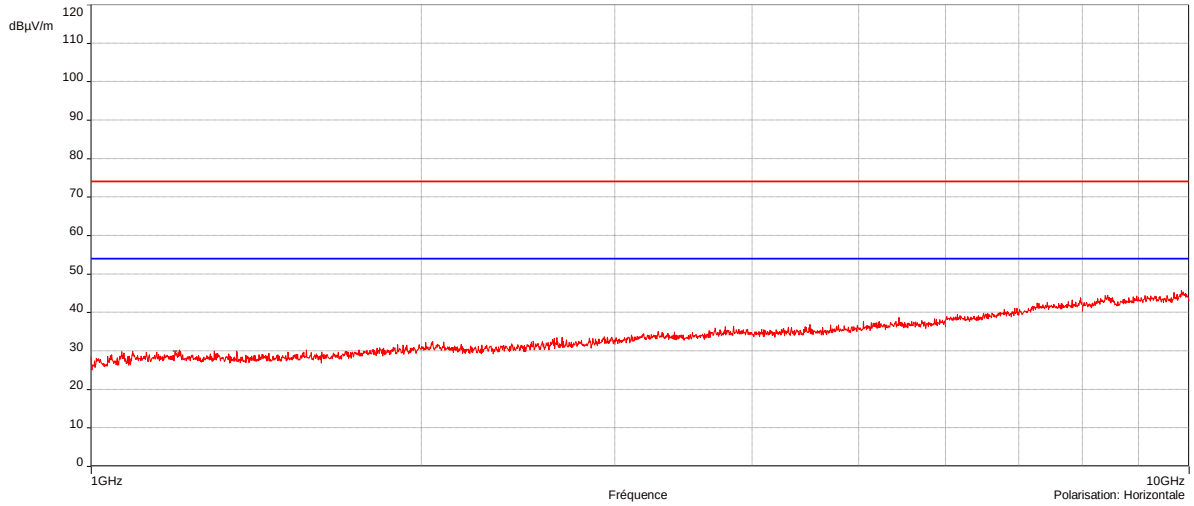
POSITION	FREQUENCIES	RBW	VBW	DETECTOR
Vertical	1GHz-1.2GHz	1MHz	3MHz	Peak
Vertical	1.2GHz-3GHz	1MHz	3MHz	Peak
Vertical	3GHz-6GHz	1MHz	3MHz	Peak
Vertical	6GHz-8GHz	1MHz	3MHz	Peak
Vertical	8GHz-10GHz	1MHz	3MHz	Peak
Horizontal	1GHz-1.2GHz	1MHz	3MHz	Peak
Horizontal	1.2GHz-3GHz	1MHz	3MHz	Peak
Horizontal	3GHz-6GHz	1MHz	3MHz	Peak
Horizontal	6GHz-8GHz	1MHz	3MHz	Peak
Horizontal	8GHz-10GHz	1MHz	3MHz	Peak
Configuration:	Foal sensor transmitting on the frequency 915 MHz			
Comments:	For marked frequencies see tabulated results below. Spurious that are lower than 10 dB of the applicable limite are not reported			
E.U.T. modification: No				

MEASUREMENT OF RADIATED DISTURBANCES - TABULATED RESULTS							
TX MODE - MAXHOLD 360° 30MHZ - 1GHZ							EMI4586
Test Freq. (MHz)	**Detector (Pk/QP/Av)**	**Ant. position**	**Azimuth (°)**	**Ant. Hight (cm)**	**Level (dBµV/m)**	**Limit (dBµV/m)**	**Margin (dB)**
1803.0	CISPR Av	V	152	145	42.4	54	11.6
2745.0	CISPR Av	V	0	145	49.9	54	4.1
3659.0	CISPR Av	V	360	135	39.7	54	14.3
8234.0	CISPR Av	V	184	130	40.9	54	13.1
1830.0	CISPR Av	H	0	190	38.1	54	15.9
2745.0	CISPR Av	H	0	135	46.5	54	7.5
3659.0	CISPR Av	H	188	135	40.1	54	13.9
8234.0	CISPR Av	H	86	100	40.2	54	13.8

MEASUREMENT OF RADIATED DISTURBANCES - GRAPH			
MAXHOLD 360° - 1GHZ - 10GHZ		EMI4589	
E.U.T. mode:	#2	**T (°C):**	21
Test Date:	26/09/2025	**H (%):**	41
Test Operator:	NPe	**P (hPa):**	-

Red : Peak detection - Blue: Average limit





POSITION	FREQUENCIES	RBW	VBW	DETECTOR
Vertical	1GHz-3GHz	1MHz	3MHz	Peak
Vertical	3GHz-6GHz	1MHz	3MHz	Peak
Vertical	6GHz-8GHz	1MHz	3MHz	Peak
Vertical	8GHz-10GHz	1MHz	3MHz	Peak
Horizontal	1GHz-3GHz	1MHz	3MHz	Peak
Horizontal	3GHz-6GHz	1MHz	3MHz	Peak
Horizontal	6GHz-8GHz	1MHz	3MHz	Peak
Horizontal	8GHz-10GHz	1MHz	3MHz	Peak
Configuration:	Outdoor Collector powered by internal battery while charging with an ac adapter			
Comments:	Spurious that are lower than 10 dB of the applicable limite are not reported.			
E.U.T. modification: No				

End of test report