

Test report for

47 CFR Part 15 Subpart B

ICES-Gen, ICES-003



The RvA is signatory to ILAC - MRA



Product name : Simcenter SCADAS XS
Applicant : Siemens Industry Software Netherlands BV
FCC ID : 2AF88-SC-XS2
IC : 28364-SC-XS2

Test report No. : P000461493 001 Ver 3.0

Laboratory information

Accreditation

Kiwa Nederland B.V. complies with the accreditation criteria for test laboratories as laid down in ISO/IEC 17025:2017. 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 L248 and is granted by the Dutch Council For Accreditation (RvA: Raad voor Accreditatie).

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Documentation

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 Kiwa Nederland B.V.

Testing Location

Test Site	Kiwa Nederland B.V.
Test Site location	Wilmersdorf 50 7327 AC Apeldoorn The Netherlands Tel. +31 88998 3393
Test Site FCC	NL0001
CABID	NL0001

Revision History

Version	Date	Remarks	By
v0.5	15-01-2025	First draft	PvW
v1.0	10-03-2025	Final release	PvW
V2.0	13-03-2025	Updated FCC ID and IC	PvW
V3.0	04-03-2025	Add SC-XS12-N variant, class A results removed and class B results added.	TK

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Summary of Test results

FCC	ISED	Description	Section in report	Verdict
15.109 (a)	ICES-003 Table 2	Radiated spurious emissions < 1GHz	3.1	Pass
15.109 (a)	ICES-003 Table 4	Radiated spurious emissions > 1GHz	3.1	Pass
15.107 (c)	ICES-003 Table 1	AC power-line conducted emissions	3.2	Pass

Decision rule: Pass/Fail decisions are based on measurement results without taking into account measurement uncertainty.

1 General Description

1.1 Applicant

Client name:	Siemens Industry Software Netherlands BV
Address:	Weidehek 53, Breda, the Netherlands
Zip code:	4824 AT
Telephone:	076 5736363
E-mail:	Tom.schrijer@siemens.com
Contact name:	Mr. Tom Schrijer

1.2 Manufacturer

Manufacturer name:	Siemens Industry Software Netherlands BV
Address:	Weidehek 53, Breda, the Netherlands
Zip code:	4824 AT
Telephone:	076 5736363
E-mail:	Tom.schrijer@siemens.com
Contact name:	Mr. Tom Schrijer

1.3 Tested Equipment Under Test (EUT)

Product name:	Simcenter SCADAS XS
Brand name:	Siemens
FCC ID:	2AF88-SC-XS2
IC:	28364-SCX-S2
Product description:	Data Acquisition System
Variant model(s):	SC-XS12-AC SC-XS12-A SC-XS12-NC SC-XS12-N SC-XS6-E SC-XS6-EC
Batch and/or serial No.	
Software version:	--
Hardware version:	--
Date of receipt:	05-12-2024
Tests started:	06-12-2024
Testing ended:	28-03-2025

1.3.1 Auxiliary items

AUX1

Product name:	NGE12I05-USB
Brand name:	MeanWell
Product type:	AC/DC Switching Adaptor
Model(s):	NGE-12I05-USB
Batch and/or serial No.	SC472Y1231
Remarks:	Used for charging battery of EUT

AUX2

Product name:	--
Brand name:	--
Product type:	GNSS antenna
Model(s):	--
Batch and/or serial No.	--
Remarks:	Connects to EUT GNSS antenna port

AUX3

Product name:	HS sensor cable
Brand name:	--
Product type:	Cable
Model(s):	--
Batch and/or serial No.	--
Remarks:	Connects to EUT HS port

AUX4

Product name:	ABC Sensor cable
Brand name:	--
Product type:	Cable
Model(s):	--
Batch and/or serial No.	--
Remarks:	Connects to EUT ABC port

AUX5

Product name:	SPDIF Sensor cable
Brand name:	--
Product type:	Cable
Model(s):	--
Batch and/or serial No.	--
Remarks:	Connects to EUT SPDIF port

AUX6

Product name:	CAN Sensor cable
Brand name:	--
Product type:	Cable
Model(s):	--
Batch and/or serial No.	--
Remarks:	Connects to EUT CAN port

AUX7

Product name:	TACHO Sensor cable
Brand name:	--
Product type:	Cable
Model(s):	--
Batch and/or serial No.	--
Remarks:	Connects to EUT TACHO port

AUX8

Product name:	LAN cable
Brand name:	--
Product type:	Cable
Model(s):	--
Batch and/or serial No.	--
Remarks:	Connects to EUT LAN port

AUX9

Product name:	Laptop
Brand name:	HP
Product type:	Laptop
Model(s):	HP Probook 650 G5
Batch and/or serial No.	BA96D77C-7F70-4867-A445-17C8898BC564
Remarks:	Connects to EUT LAN port

1.4 Product specifications of Equipment under test

Tx Frequency:	WLAN: 2400 – 2483.5 MHz
Rx frequency:	WLAN: 2400 – 2483.5 MHz
Occupied channel width:	20 MHz
Antenna type:	Ceramic chip antenna
Antenna gain:	+2.0 dBi
Type of modulation:	CCK/OFDM/DBPSK/DQPSK/DSSS/64-QAM
Emission designator	802.11b: 14M0F1D

The EUT is considered as a Class B device.

Bandwidth used for calculating emission designator is based on the bandwidth measurement from ICC test report no. FR100407AC Rev 01.

1.5 Environmental conditions

Test date	06-12-2024	11-12-2024	12-12-2024	28-03-2025
Ambient temperature	19.6°C	21.2°C	20.1°C	21.9°C
Humidity	41.9%	29.7%	31.8%	30.2%

1.6 Measurement standards

- ANSI C63.4:2014

1.7 Applicable standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart B
- ICES-003 Issue 7
- ICES-Gen Issue 2

1.8 Observation and remarks

EUT orientation:



1.9 Conclusions

The sample of the product showed **NO NON-COMPLIANCES** to the specifications stated in paragraph 1.8 of this report.

The results of the test as stated in this report, are exclusively applicable to the product items as identified in this report. Kiwa Nederland B.V. accepts no responsibility for any properties of product items in this test report, which are not supported by the tests as specified in paragraph 1.8 *"Applicable standards"*.

All tests are performed by:

Name : P. van Wanrooij, BAsC & T. Keltjens BAsC

Review of test methods and report by:

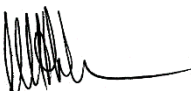
Name : ing. M.H. Khan

The above conclusions have been verified by the following signatory:

Date : 04-04-2025

Name : ing. M.H. Khan

Function : Test Engineer

Signature : 

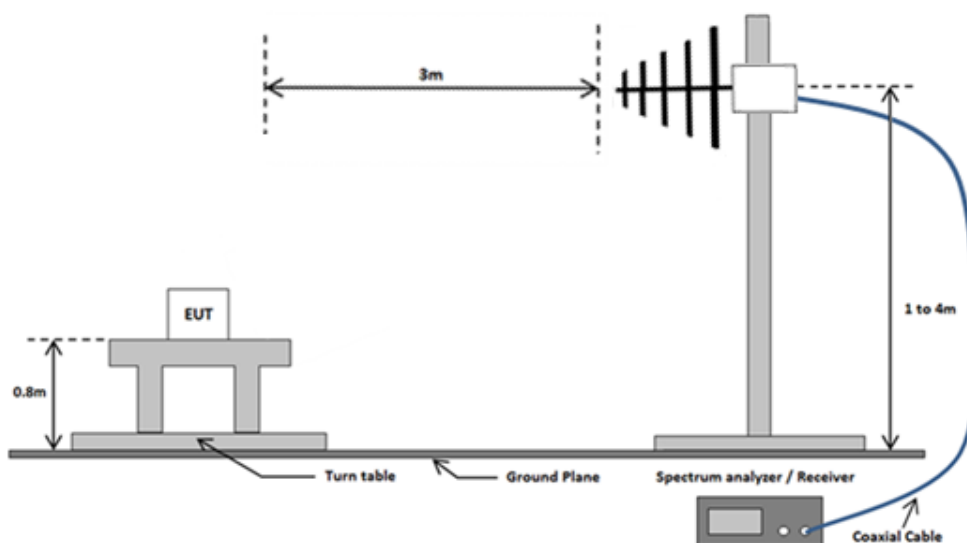
2 Test configuration of the Equipment Under Test

2.1 Test mode

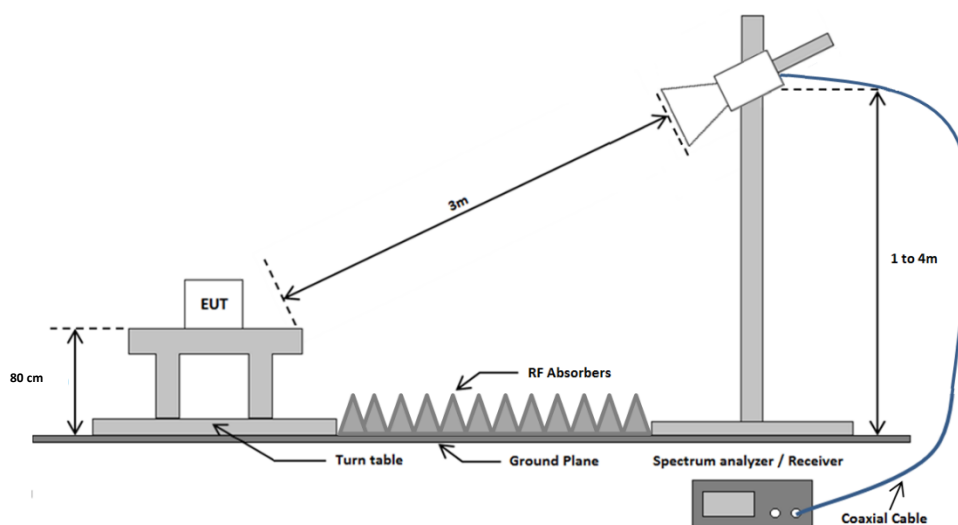
The EUT is tested in normal operating mode, with the transmitter idle.

2.2 Test setups

2.2.1 Radiated emissions test setup 30 MHz - 1 GHz

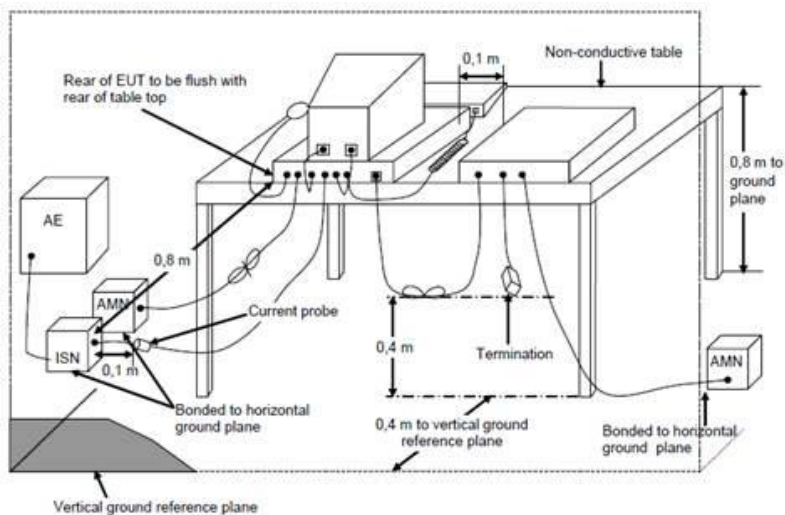


2.2.2 Radiated emissions test setup above 1 GHz



2.2.3 AC Power line conducted emissions test setup

Emissions test at AC mains



EUT orientation:



Figure 1. EUT and auxiliary setup

List of used cables					
Number	Function	From	To	Length	Remarks
1	AC Power	mains 120Vac 60 Hz	AUX1	< 3m	-
2	5 Vdc power	AUX1	EUT	< 3m	-
3	Ethernet	EUT	AUX9	<3m	-
4	HS sensor cable	EUT	--	<3m	-
5	ABC sensor cable	EUT	--	<3m	3 sets of this cable bundle were connected to the EUT
6	SPDIF sensor cable	EUT	--	<3m	-
7	CAN sensor cable	EUT	--	<3m	-
8	TACHO sensor cable	EUT	--	<3m	-

2.3 Test methodology

The test methodology used is based on the requirements of 47 CFR Part 15, sections 15.31, 15.107 and 15.109, ICES-003 and ICES-Gen. The test methods, which have been used, are based on ANSI C63.4-2014.

2.4 Equipment modifications

The manufacturer changed the AC power supply to the listed model to reduce conducted spurious emissions on the LAN shield.

2.5 Equipment used in the test configuration

Description	Manufacturer	Model	ID	Cal. Done date	Cal. due date	Used at Par.
EMI Receiver	Rohde & Schwarz	ESR7	114605	11-2024	11-2025	3.1, 3.2
Spectrum Analyzer	Rohde & Schwarz	FSV3044	114923	10-2023	10-2025	3.1
Biconical antenna + 6dB attenuator	EMCO	3109	107818	06-2022	06-2025	3.1
Logperiodic antenna	EMCO	3147	114385	02-2021	02-2026	3.1
Horn antenna	EMCO	3115	114607	01-2021	01-2025	3.1
Preamplifier 1-18 GHz	µComp Nordic	MCNA-40-0010800-25-10P	114771	08-2024	08-2025	3.1
Semi-Anechoic Chamber	ETS Lindgren	SAR	114624	03-2023	03-2026	3.1
Test software	Raditeq	Radimation Version 2023.2.3	--	--	--	3.1, 3.2
LISN /Two line V-network	Rohde & Schwarz	ENV 216	114379	11-2023	11-2025	3.2

Conformance of the used measurement and test equipment with the requirements of ISO/IEC 17025:2017 has been confirmed before testing.

NA= Not Applicable

2.6 Sample calculations

All formulas for data conversions and conversion factors are reported in chapter 4 of this test report.

3 Test results

3.1 Radiated spurious emissions

3.1.1 Limit

Except for Class A digital devices, the field strength of radiated emissions from an unintentional radiator shall not exceed the field strength levels specified in the following tables.

On any frequency or frequencies below or equal to 1000 MHz, the limits shown are based on measuring equipment employing a CISPR quasi-peak detector function and related measurement bandwidths, unless otherwise specified.

Unless otherwise specified, on any frequency or frequencies above 1000 MHz, the radiated emission limits are based on the use of measurement instrumentation employing an average detector function.

When average radiated emission measurements are specified in this part, there is also a limit on the peak level of the emissions. Unless otherwise specified, the limit on peak emissions is 20 dB above the average limit.

The product under test shall comply with both the average and the peak limits.

ICES-003 Issue 7 section 3.2.2

The quasi-peak limits for the electric component of the radiated field strength emitted from ITE or digital apparatus, within 30 MHz to 1 GHz, for a measurement distance of 3m are presented in table below.

At and above 1 GHz, except for outdoor units of home satellite receiving systems, the ITE or digital apparatus shall comply with the limits specified in table below up to the frequency F_M , which shall be determined. The product under test shall comply with both the average and the peak limits.

FCC 15.109(a)

Frequency (MHz)	Field strength ($\mu\text{V}/\text{meter}$)	Field strength (dB $\mu\text{V}/\text{m}$)	Measurement distance (meters)
30-88	100	40.0	3
88-216	150	43.5	3
216-960	200	46.0	3
Above 960	500	54.0	3

ICES-003 tables 2, 4

Frequency (MHz)	Field strength ($\mu\text{V}/\text{meter}$)	Field strength (dB $\mu\text{V}/\text{m}$)	Measurement distance (meters)
30-88	100	40.0	3
88-216	150	43.5	3
216-230	200	46.0	3
230 -960	224	47.0	3
Above 960	500	54.0	3

3.1.2 Measurement instruments

The measurement instruments are listed in chapter 2.5 of this report.

3.1.3 Test setup

The test setup is as shown in chapter 2.2.1 and 2.2.2 of this report.

3.1.4 Test procedure

30 MHz to 26.5 GHz: According to ANSI C63.4-2014, section 8.3

30 MHz to 1 GHz: IRN 441 – Method 1

1 GHz to 18 GHz: IRN 441 – Method 2

In case of handheld and/or body-worn equipment, the EUT's orientation (X, Y, Z) was varied in order to ensure that maximum emission amplitudes were attained. In all other cases the associated cabling and the EUT orientation was varied for maximum emissions. The spectrum was examined from 30MHz to the highest measurement frequency according to the table below. Final radiated emission measurements were made at 3m distance.

Highest internal frequency (F_X) ⁱ	Highest measurement frequency (F_M)
$F_X \leq 108 \text{ MHz}$	1 GHz
$108 \text{ MHz} < F_X \leq 500 \text{ MHz}$	2 GHz
$500 \text{ MHz} < F_X \leq 1 \text{ GHz}$	5 GHz
$F_X > 1 \text{ GHz}$	$5 \times F_X$ up to a maximum of 40 GHz
i. F_X is the highest fundamental frequency generated and/or used in the ITE or digital apparatus under test.	

The 6 highest emission amplitudes relative to the appropriate limit were recorded in this report. Field strength values of radiated emissions at frequencies not listed in the tables are more than 20 dB below the applicable limit.

3.1.5 Measurement Uncertainty

Frequency range	Polarization	Uncertainty
30 – 200 MHz	Horizontal	±4.5 dB
	Vertical	±5.4 dB
200 -1000 MHz	Horizontal	±3.6 dB
	Vertical	±4.6 dB
1 – 18 GHz	Horizontal	±5.7 dB
	Vertical	±5.7 dB

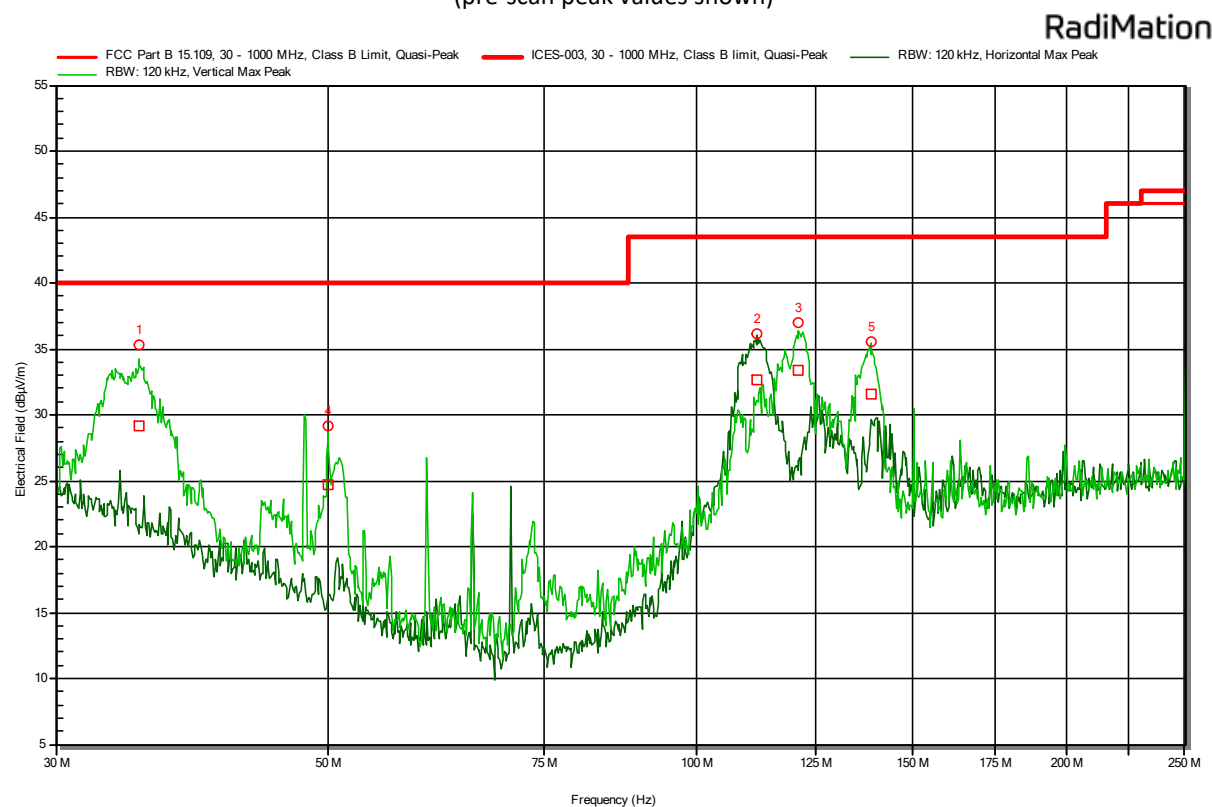
3.1.6 Test results

Peak Number	Frequency	Peak	Quasi-Peak	Quasi-Peak Limit	Status	Angle	Height	Polarization
1	349,973 MHz	33,3 dB μ V/m	31,1 dB μ V/m	46 dB μ V/m	Pass	328 degrees	1,25 m	Horizontal
2	299,994 MHz	28,1 dB μ V/m	24,4 dB μ V/m	46 dB μ V/m	Pass	306 degrees	1,75 m	Vertical
3	350,009 MHz	31 dB μ V/m	28,3 dB μ V/m	46 dB μ V/m	Pass	255 degrees	1,25 m	Vertical
4	35,117 MHz	35,3 dB μ V/m	29,2 dB μ V/m	40 dB μ V/m	Pass	81 degrees	1 m	Vertical
5	111,893 MHz	36,2 dB μ V/m	32,7 dB μ V/m	43,5 dB μ V/m	Pass	26 degrees	2,7 m	Horizontal
6	121,084 MHz	37 dB μ V/m	33,4 dB μ V/m	43,5 dB μ V/m	Pass	304 degrees	1 m	Vertical
7	49,984 MHz	29,2 dB μ V/m	24,7 dB μ V/m	40 dB μ V/m	Pass	81 degrees	1 m	Vertical
8	138,754 MHz	35,5 dB μ V/m	31,5 dB μ V/m	43,5 dB μ V/m	Pass	316 degrees	1 m	Vertical

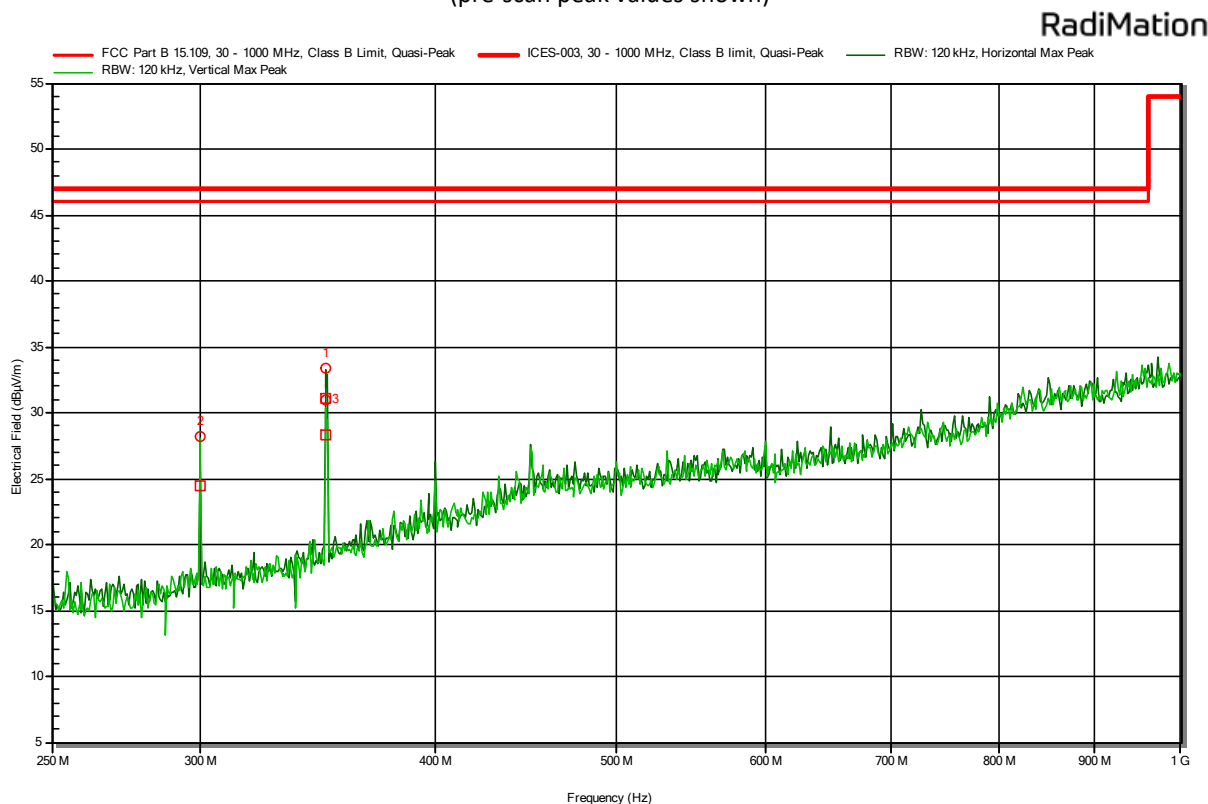
Peak Number	Frequency	Peak	Peak Limit	Average	Average Limit	Status	Angle	Height	Polarization
1	1,204 GHz	35,3 dB μ V/m	74 dB μ V/m	23 dB μ V/m	54 dB μ V/m	Pass	177 degrees	1,5 m	Vertical

3.1.7 Plots of the Radiated Spurious Emissions Measurement

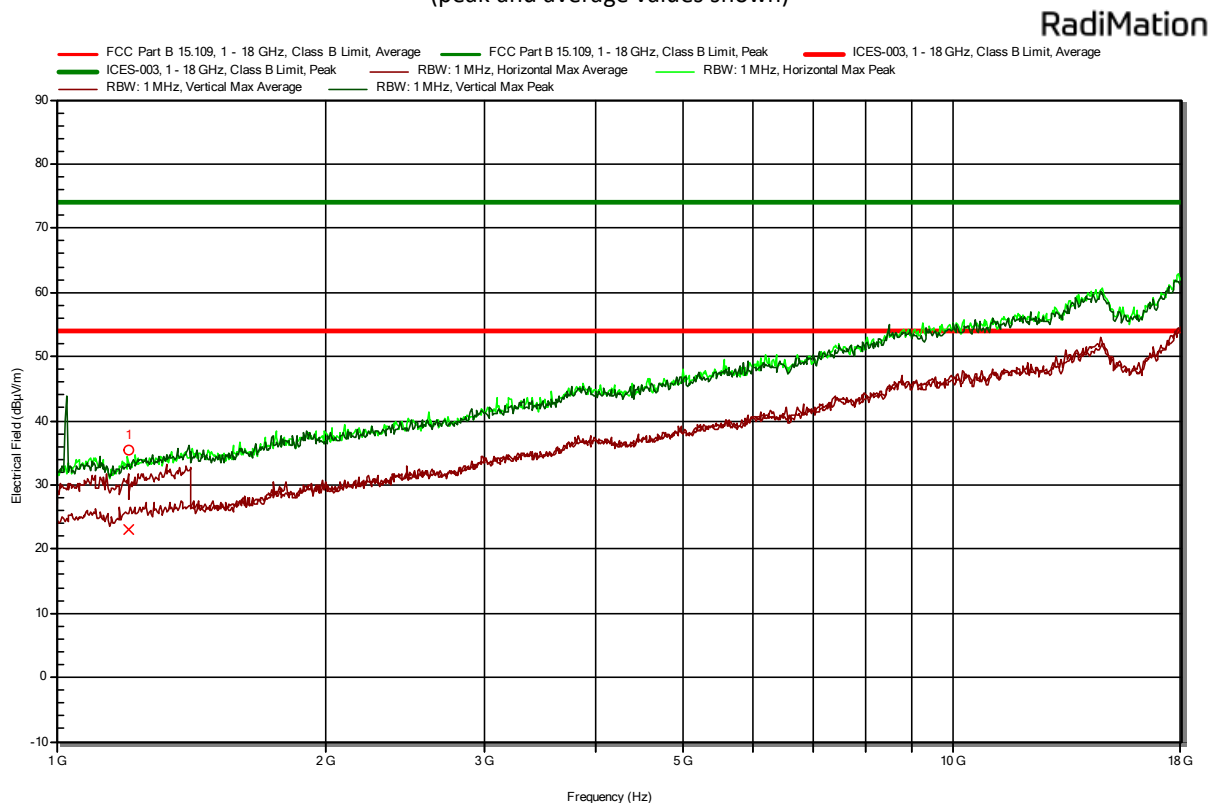
Plot 1a: radiated emissions of the EUT, Antenna vertical and horizontal, in the range 30 – 250 MHz
(pre-scan peak values shown)



Plot 2a: radiated emissions of the EUT, Antenna vertical and horizontal, in the range 250-1000 MHz
(pre-scan peak values shown)



Plot 3a: radiated emissions of the EUT, Antenna vertical and horizontal, in the range 1-18 GHz
(peak and average values shown)



3.2 AC Power-line conducted emissions

3.2.1 Limit

§ 15.107 (a)

Except for Class A digital devices, for equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN).

ICES-003 Issue 7 section 3.2.1

The ITE or digital apparatus shall comply with the conducted emission limits specified in table below at its AC mains power terminals. The product under test shall comply with both the quasi-peak and the average limits.

Where the product under test is powered through an external device (for example, through an external power supply, or by means of a device providing power over Ethernet to the product under test), the conducted emission limits apply at the AC mains power terminals of the external device, while this is powering the product under test: see ICES-Gen.

Frequency of Emission (MHz)	Conducted Limit (dB μ V) Quasi-Peak	Conducted Limit (dB μ V) Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 - 30	46	50

*Decreases with the logarithm of the frequency.

3.2.2 Measurement instruments

The measurement instruments are listed in chapter 2.5 of this report.

3.2.3 Test setup

The test setup is as shown in chapter 2.2.3 of this report.

3.2.4 Test procedure

According to ANSI C63.4: 2014, section 13.3

IRN 439 – Method 1

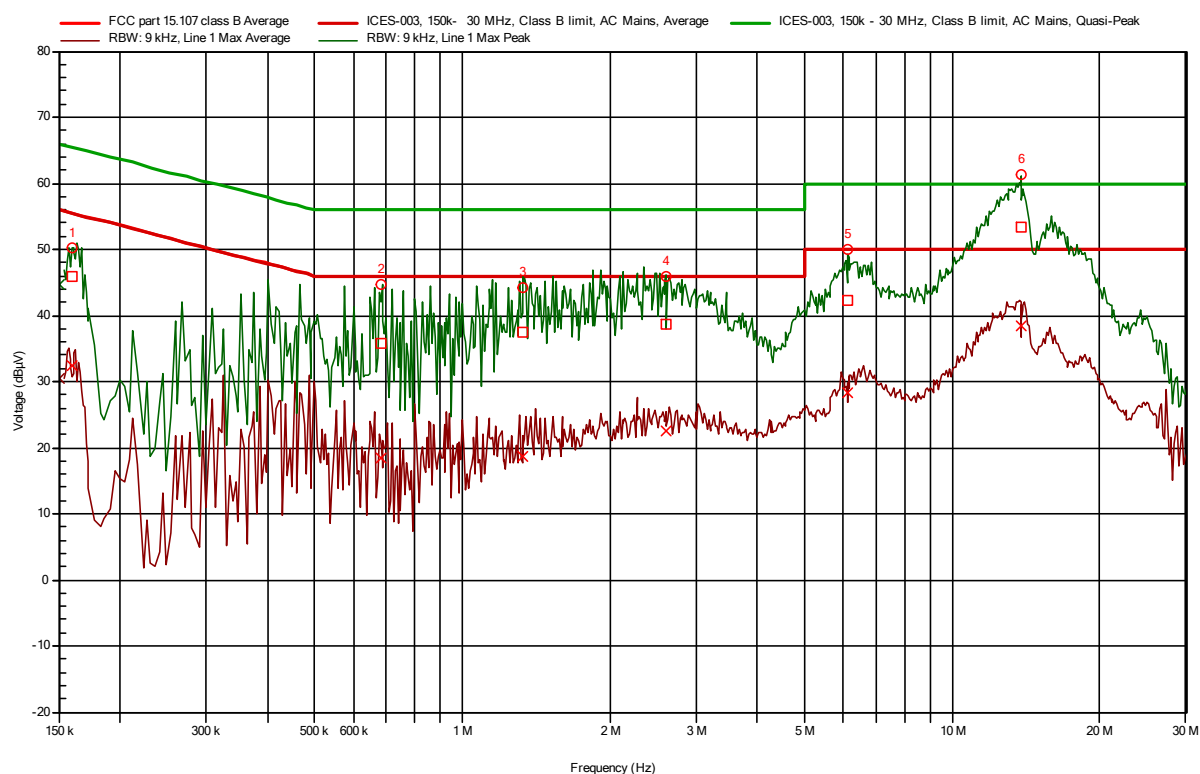
3.2.5 Measurement uncertainty

+/- 3.6 dB

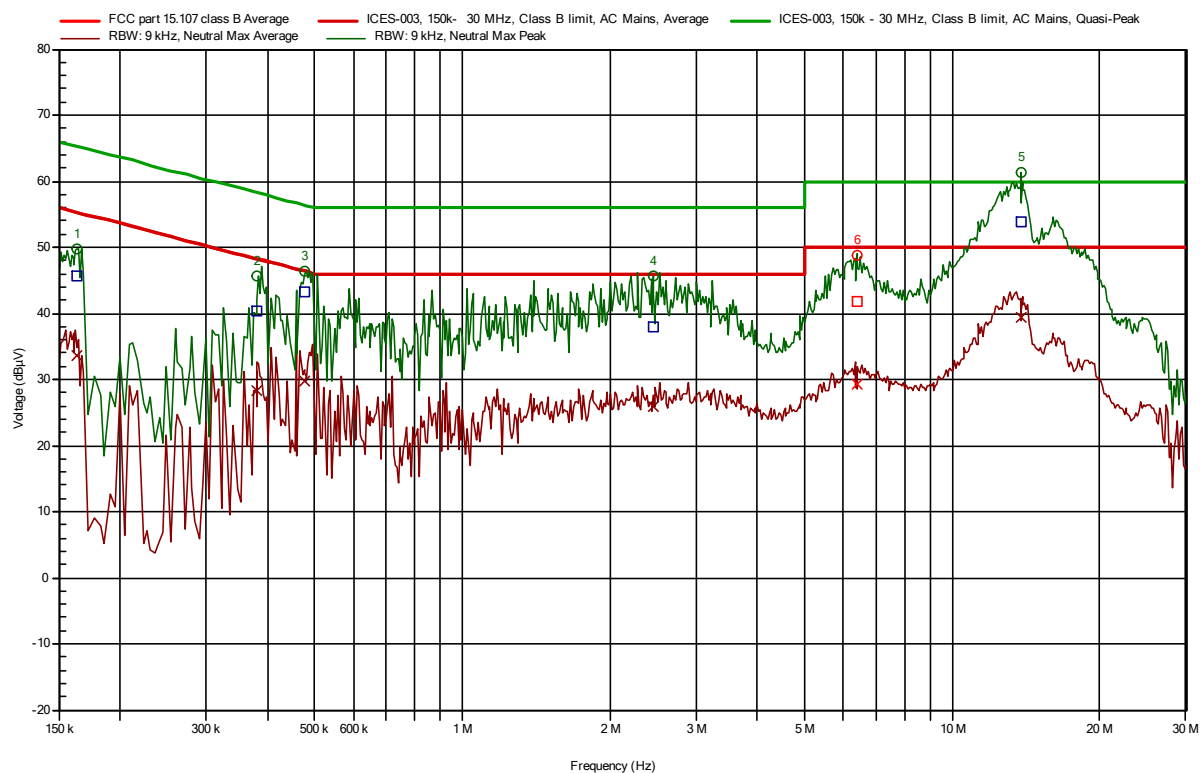
3.2.6 AC Power Line Conducted emission data of the EUT, results

Frequency	Quasi-Peak	Quasi-Peak Limit	LISN	Status
163,05 kHz	45,7 dB μ V	65,3 dB μ V	Neutral	Pass
381,75 kHz	40,4 dB μ V	58,2 dB μ V	Neutral	Pass
478,05 kHz	43,2 dB μ V	56,4 dB μ V	Neutral	Pass
2,45 MHz	37,9 dB μ V	56 dB μ V	Neutral	Pass
13,821 MHz	53,7 dB μ V	60 dB μ V	Neutral	Pass
6,374 MHz	41,9 dB μ V	60 dB μ V	Neutral	Pass
159,45 kHz	46 dB μ V	65,5 dB μ V	Line 1	Pass
685,05 kHz	35,7 dB μ V	56 dB μ V	Line 1	Pass
1,329 MHz	37,6 dB μ V	56 dB μ V	Line 1	Pass
2,607 MHz	38,6 dB μ V	56 dB μ V	Line 1	Pass
6,131 MHz	42,3 dB μ V	60 dB μ V	Line 1	Pass
13,871 MHz	53,3 dB μ V	60 dB μ V	Line 1	Pass

3.2.7 Plots of the AC mains conducted spurious measurement



Pre-scan plot with peak detector of the AC Power-line Conducted emissions on **Phase**



Pre-scan plot with peak detector of the AC Power-line Conducted emissions on **Neutral**

4 Sample calculations

All formulas for data conversions and conversion factors are reported in this chapter.

Conducted emission Measurement:

$$U_{\text{lisn}} (\text{dB}\mu\text{V}) = U (\text{dB}\mu\text{V}) + \text{Corr. (dB)}$$

Where:

U = Measuring receiver voltage

LISN insertion loss = Voltage division factor of LISN

Corr. = sum of single correction factors of used LISN, cables and pulse limiter.

Linear interpolation will be used for frequencies in between the values in the table.

Frequency (MHz)	Voltage division LISN (db)	Cable loss (dB)	Corr. (dB)
	114379 SN: 230000813 Rohde & Schwarz ENV 216	TE 11134	
0,15	9.7	0.02	9.72
0,2	9.68	0.03	9.71
0,3	9.68	0.03	9.71
0,5	9.69	0.08	9.77
0,7	9.69	0.25	9.94
0,8	9.69	0.25	9.94
1	9.68	0.11	9.79
2	9.7	0.15	9.85
3	9.71	0.21	9.92
5	9.72	0.21	9.93
7	9.76	0.25	10.01
8	9.77	0.25	10.02
10	9.77	0.29	10.06
15	9.84	0.34	10.18
20	9.88	0.37	10.25
25	9.97	0.43	10.4
30	10.08	0.45	10.53

Field Strength Measurement:

$$E \text{ (dB}\mu\text{V/m)} = U \text{ (dB}\mu\text{V)} + AF \text{ (dB/m)} + \text{Corr. (dB)}$$

Where:

E = Electric field strength

U = Measuring receiver voltage

AF = Antenna factor

CL = Cable loss

Corr. = sum of single correction factors of used cable and amplifier (if applicable).

Linear interpolation will be used for frequencies in between the values in the table.

Tables shows an extract of the values.

Frequency (MHz)	AF (dB/m)	Cable loss (dB)	Attenuator	Corr. (dB)
	ID: 107818 EMCO 3109	Id: 114928	ID:114525 Hewlett Packet	
30	13.5	1.8	6	21.3
100	9.2	2.7	6	17.9
150	12.6	3.2	6	21.8
200	13.6	3.6	6	23.2
250	15.2	4.3	6	25.5

Frequency (MHz)	AF (dB/m)	Cable loss (dB)	Corr. (dB)
	ID: 114385 EMCO LPDA	Id: 114928	
250	11.8	4.3	16.1
300	13	5.1	18.1
350	14.2	5.8	20.0
400	15.6	7.3	22.9
450	17.1	7.9	25.0
500	17.3	8.0	25.3
550	17.7	8.0	25.7
600	18.4	7.7	26.1
650	19.2	7.5	26.7
700	19.7	7.7	27.4
750	20.3	7.9	28.2
800	21.4	8.2	29.6
850	22.0	8.7	30.7
900	22.1	8.9	31.0
950	22.6	9.2	31.8
1000	22.5	9.6	32.1

Frequency (MHz)	AF (dB/m)	Gain (dB)	Cable loss (dB)	Corr. (dB)
	114607 Emco 3115 SN: 9412-4377	114690 µComp Nordic MCNA-40-0010800-25-10P	114691	
1000	23.6	45.1	2.1	-19.4
2000	27.1	44.7	3.3	-14.3
3000	30.5	44.2	4.2	-9.5
4000	32.7	43.5	4.9	-5.9
5000	33.2	43.1	5.6	-4.3
6000	34.6	43.0	6.3	-2.1
7000	35.2	42.9	6.4	-1.3
8000	37.0	43.3	7.2	0.9
9000	38.1	43.3	7.9	2.7
10000	38.2	43.0	8.2	3.4
11000	38.3	42.9	8.7	4.1
12000	39.1	42.6	9.0	5.5
13000	39.2	43.6	9.8	5.4
14000	41.1	44.3	9.7	6.5
15000	40.2	44.4	10.4	6.2
16000	37.5	44.3	10.8	4.0
17000	41.1	44.5	11.4	8.0
18000	44.0	44.9	11.4	10.5

5 Photograph test setup

5.1 Photograph test setup Radiated Emissions



Photo 1 Photograph test setup radiated emissions 30-250 MHz, report section 3.1



Photo 2 Photograph test setup radiated emissions 250-1000 MHz, report section 3.1



Photo 3 Photograph test setup radiated emissions 1-18 GHz, report section 3.1

5.2 Photograph test setup, AC Power Line Conducted emissions

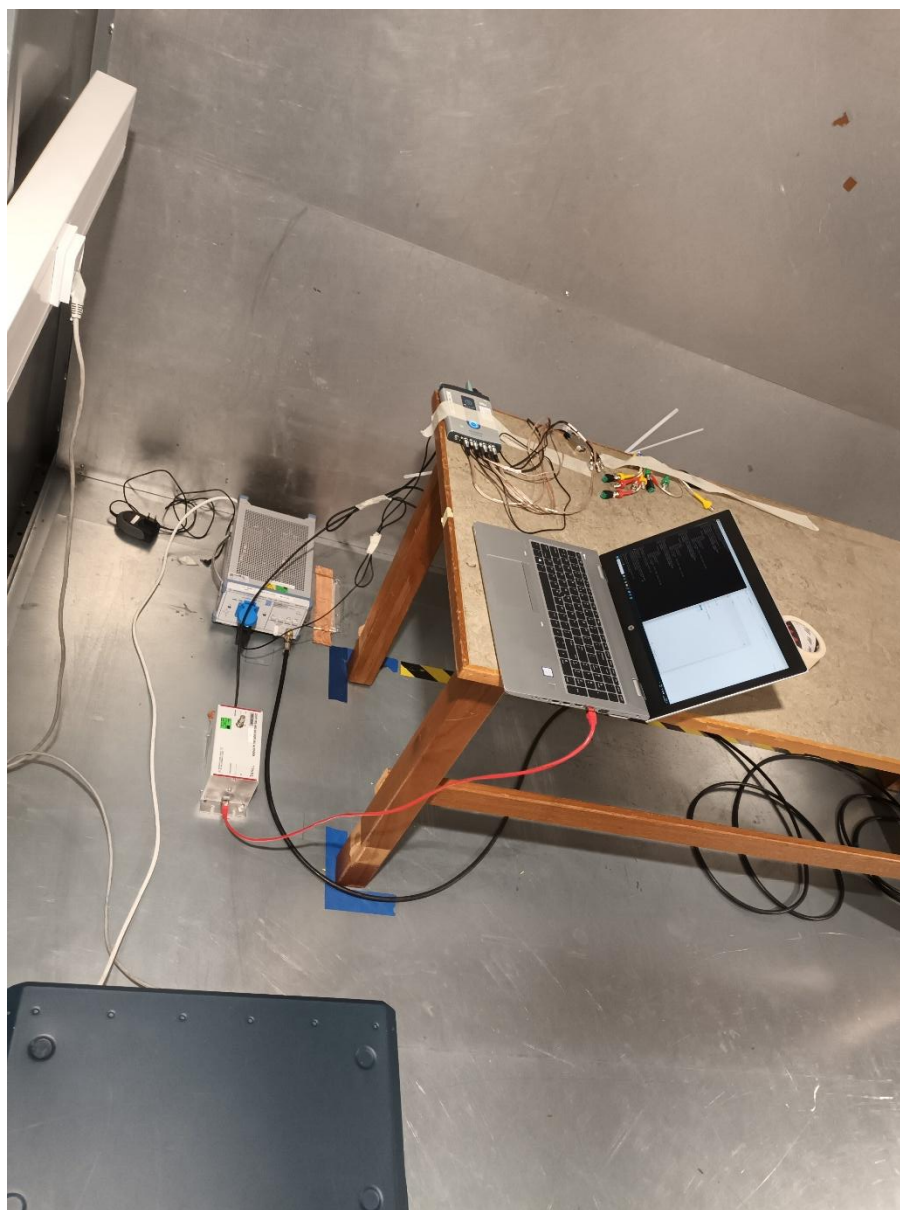


Photo 4: Photographs AC Power Line conducted emission, report section 3.2

<<END OF REPORT>>