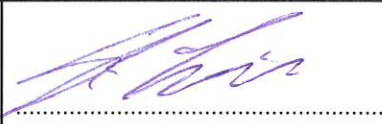


EMC TEST REPORT FCC CFR Title 47 / Chapter I / Subchapter A / Part 15 / Subpart B ISED ICES-003 Issue 7	
Report Reference No	G0M-2304-2024-EF0115B-V02
Testing Laboratory	Eurofins Product Service GmbH
Address	Storkower Str. 38c 15526 Reichenwalde Germany
Accreditation	    A2LA - Registration number: 1983.01 (ISED) ISED wireless device testing laboratory: CN 3470A DAKKS - Registration number: D-PL-12092-01-04 (FCC) FCC Filed Test Laboratory, Reg.-No.: 96970
Applicant	iesy GmbH
Address	Darmcher Grund 22 58540 Meinerzhagen GERMANY
Test Specification Standard(s)	FCC CFR Title 47 / Chapter I / Subchapter A / Part 15 / Subpart B ISED ICES-Gen Issue 1; Amendment 1 (February 2021) ISED ICES-003 Issue 7 ANSI C63.4:2014+A1:2017
Non-Standard Test Method	None
Equipment under Test (EUT):	
Product Description	19" Security Server 1U
Model(s)	SDoT Server V3B-2 HSM SN SR
Additional Model(s)	None
Brand Name(s)	None
Hardware Version(s)	V3B
Software Version(s)	SK55jb (Testsoftware)
FCC-ID	2AZ4S-SEC-SRV-V3B
IC	-
Test Result	PASSED

Possible test case verdicts:		
required by standard but not tested	N/T	
not required by standard	N/R	
required by standard but not appl. to test object	N/A	
test object does meet the requirement	P(PASS)	
test object does not meet the requirement	F(FAIL)	
Testing:		
Date of receipt of test item	2023-05-09	
Report:		
Compiled by	Stephan Liebich	
Responsible for Test (+ signature)	Stephan Liebich	
Approved by (+ signature) (Deputy Head of Lab)	Jens Marquardt	
Date of Issue	2023-09-14	
Total number of pages	61	
General Remarks:		
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. This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.		
Statement concerning the uncertainty of the measurement systems used for decisions on conformity (decision rule): The Decision Rule is applied on the basis of CISPR 16-4-2 and/or IEC 61000-4-x (TR 61000-1-6) and their national publications. These standards provide guidance on how to calculate and apply measurement uncertainty whilst providing maximum uncertainties allowance. In all cases due consideration will be given to ILAC-G8:09/2019. Compliance or non-compliance with a disturbance limit is determined in the following manner. - If U_{lab} is less than or equal to U_{CISPR}, then: compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit; non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit. - If U_{lab} is greater than U_{CISPR}, then: compliance is deemed to occur if no measured disturbance level, increased by $(U_{lab} - U_{CISPR})$, exceeds the disturbance limit; non-compliance is deemed to occur if any measured disturbance level, increased by $(U_{lab} - U_{CISPR})$, exceeds the disturbance limit. Where appropriate for the test, for example for EMC pulsed immunity tests, the laboratory has demonstrated, by calibrating its equipment and facilities, that it complies with the above requirements and therefore no allowance of uncertainties has been given to the tolerances.		
Additional Comments:		
None		

ADDITIONAL NOT TESTED MODEL(S)

Additional variants have been declared by the manufacturer. The listed models were not tested, evaluated or assessed in no way.		
Additional Model 1	Product Type Description	19" Security Server 1U
	Model Name	SDoT Server V3B 10G LR SC
	Brand Name (optional)	-
	Hardware Version	V3B
	Software Version	SK55jb (Testsoftware)
Additional Model 2	Product Type Description	19" Security Server 1U
	Model Name	SDoT Server V3B-2 10G SC FW
	Brand Name (optional)	-
	Hardware Version	V3B
	Software Version	SK55jb (Testsoftware)
Additional Model 3	Product Type Description	19" Security Server 1U
	Model Name	SDoT Server V3B-2 HSM SC SN SR
	Brand Name (optional)	-
	Hardware Version	V3B
	Software Version	SK55jb (Testsoftware)
Additional Model 4	Product Type Description	19" Security Server 1U
	Model Name	SDoT Server V3B 10G SR SC
	Brand Name (optional)	-
	Hardware Version	V3B
	Software Version	SK55jb (Testsoftware)
Additional Model 5	Product Type Description	19" Security Server 1U
	Model Name	SDoT Server V3B HSM SC
	Brand Name (optional)	-
	Hardware Version	V3B
	Software Version	SK55jb (Testsoftware)
Additional Model 6	Product Type Description	19" Security Server 1U
	Model Name	SDoT Server V3B HSM SN SR
	Brand Name (optional)	-
	Hardware Version	V3B
	Software Version	SK55jb (Testsoftware)
Additional Model 7	Product Type Description	19" Security Server 1U
	Model Name	SDoT Server V3B 10G SC FW
	Brand Name (optional)	-
	Hardware Version	V3B
	Software Version	SK55jb (Testsoftware)
Additional Model 8	Product Type Description	19" Security Server 1U
	Model Name	SDoT Server V3B-2 10G SR SC
	Brand Name (optional)	-
	Hardware Version	V3B
	Software Version	SK55jb (Testsoftware)

Additional Model 9	Product Type Description	19" Security Server 1U
	Model Name	SDoT Server V3B-2 10G LR SC
	Brand Name (optional)	-
	Hardware Version	V3B
	Software Version	SK55jb (Testsoftware)
Additional Model 10	Product Type Description	19" Security Server 1U
	Model Name	SDoT Server V3B-2 HSM SC
	Brand Name (optional)	-
	Hardware Version	V3B
	Software Version	SK55jb (Testsoftware)
Additional Model 11	Product Type Description	19" Security Server 1U
	Model Name	SDoT Server V3B HSM SC SN SR
	Brand Name (optional)	-
	Hardware Version	V3B
	Software Version	SK55jb (Testsoftware)
Additional Model 12	Product Type Description	19" Security Server 1U
	Model Name	SDoT Server V3B-2 HSM SC
	Brand Name (optional)	-
	Hardware Version	V3B
	Software Version	SK55jb (Testsoftware)
Additional Model 13	Product Type Description	19" Security Server 1U
	Model Name	SDoT Server V3B HSM SC
	Brand Name (optional)	-
	Hardware Version	V3B
	Software Version	SK55jb (Testsoftware)

ABBREVIATIONS AND ACRONYMS

Acronyms	
Acronym	Description
EUT	Equipment Under Test
FCC	Federal Communications Commission
ISED	Innovation, Science and Economic Development Canada
T _{NOM}	Nominal operating temperature
V _{NOM}	Nominal supply voltage
LWL	Fiber optic

VERSION HISTORY

Version History			
Version	Issue Date	Remarks	Revised By
01	2023-07-13	Initial Release	-
02	2023-09-14	Replaced document: G0M-2304-2024-EF0115B-V01 Replaced by: G0M-2304-2024-EF0115B-V02 Changes: Page 3/4: NOT TESTED MODEL change of additional model 3 and 11	St. Liebich

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1 Equipment (Test Item) Under Test

Description	19" Security Server 1U		
Intended Use	Customized 19-inch server system for high-end data security for physical separation of networks. Based on high-speed COM Express modules with Intel Core i7 processors, a 1U computer system was created for military applications with the highest level of data security at the hardware level.		
Model	SDoT Server V3B-2 HSM SN SR		
Additional Model(s)	None		
Brand Name(s)	None		
Hardware Version(s)	V3B		
Software Version(s)	SK55jb (Testsoftware)		
Number of tested samples	1		
Sample Identification	EUT #	Sample-ID	Serial Number
	EUT 1	44087	88KL00142
EUT Dimensions [cm]	56.5 x 48.5 x 4.4		
FCC-ID	2AZ4S-SEC-SRV-V3B		
IC	-		
Class	Class B		
Equipment type	Table top		
Highest internal frequency [MHz]	8000		
Protective Earth	Yes		
Functional Earth	Yes		
Radio Module	None		
Supply Voltage	V _{NOM}	2x 120 V / 60 Hz by redundant power supply unit	
AC/DC-Adaptor	None		
Manufacturer	iesy GmbH Darmcher Grund 22 58540 Meinerzhagen GERMANY		
Factory	iesy GmbH Darmcher Grund 22 58540 Meinerzhagen GERMANY		

1.1 Equipment Ports

Name	Type	Attributes	Comment
AC Mains	AC	Count: 2 Direction: In Max. cable length [m]: 2 Shielded: No Service only: No	100 to 240 V AC with PE
USB 3.0	IO	Count: 2 Direction: IO Max. cable length [m]: 3 Shielded: Yes Service only: Yes	Type A USB port
RS232	IO	Count: 1 Direction: IO Max. cable length [m]: 2 Shielded: Yes Service only: Yes	D-SUB 9 pol; port not exercised and not terminated
RJ45	IO	Count: 2 Direction: IO Max. cable length [m]: 5 Shielded: Yes Service only: No	10/100/1000 MBit
LWL 1GBE	IO	Count: 2 Direction: IO Max. cable length [m]: 10 Shielded: No Service only: No	1 GBE
LWL 10 GBE	IO	Count: 2 Direction: IO Max. cable length [m]: 10 Shielded: No Service only: No	10 GBE
Display Port	IO	Count: 1 Direction: IO Max. cable length [m]: 5 Shielded: Yes Service only: Yes	-
USB 2.0	IO	Count: 1 Direction: IO Max. cable length [m]: 3 Shielded: Yes Service only: Yes	Type A; port not exercised and not terminated
Ground	GND	Count: 1 Direction: IO Max. cable length [m]: unspecified Shielded: No Service only: No	-

Description:	
AC	AC mains power input/output port
DC	DC power input/output port
BAT	DC power input port connected to external battery
IO	Input/Output port
TP	Telecommunication port
NE	Non-electrical port
GND	Ground

1.2 Equipment Photos - Internal

EUT WITHOUT TOP COVER
- Confidential -

EUT INTERNAL FOCUS I
- Confidential -

EUT INTERNAL FOCUS II

- Confidential -

EUT INTERNAL FOCUS III

- Confidential -

EUT INTERNAL FOCUS IV

- Confidential -

EUT INTERNAL FOCUS V

- Confidential -

EUT INTERNAL FOCUS VI

- Confidential -

EUT INTERNAL FOCUS VII

- Confidential -

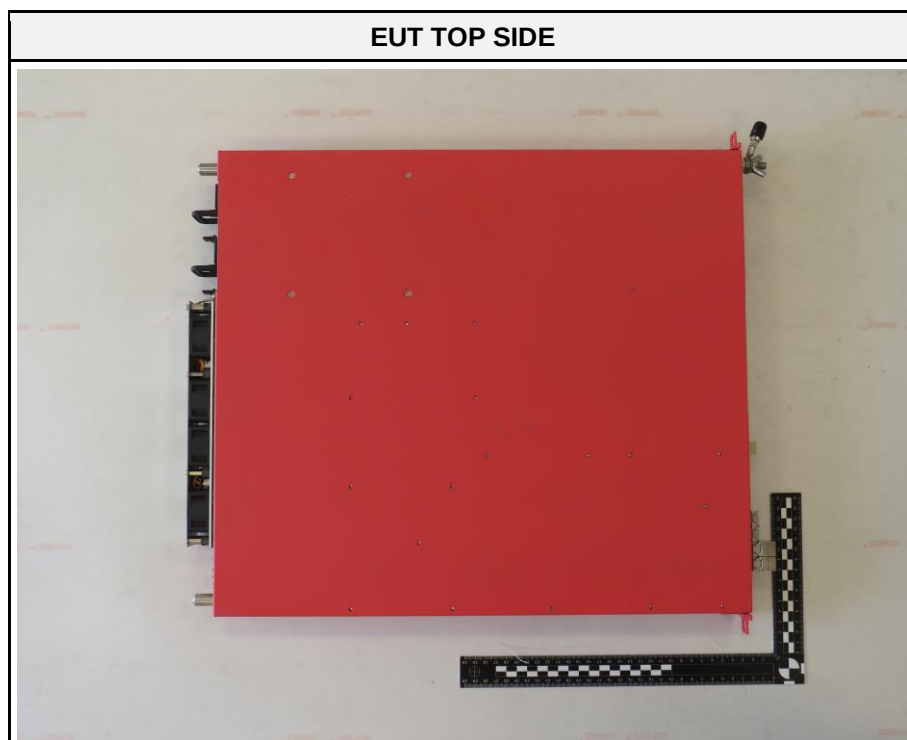
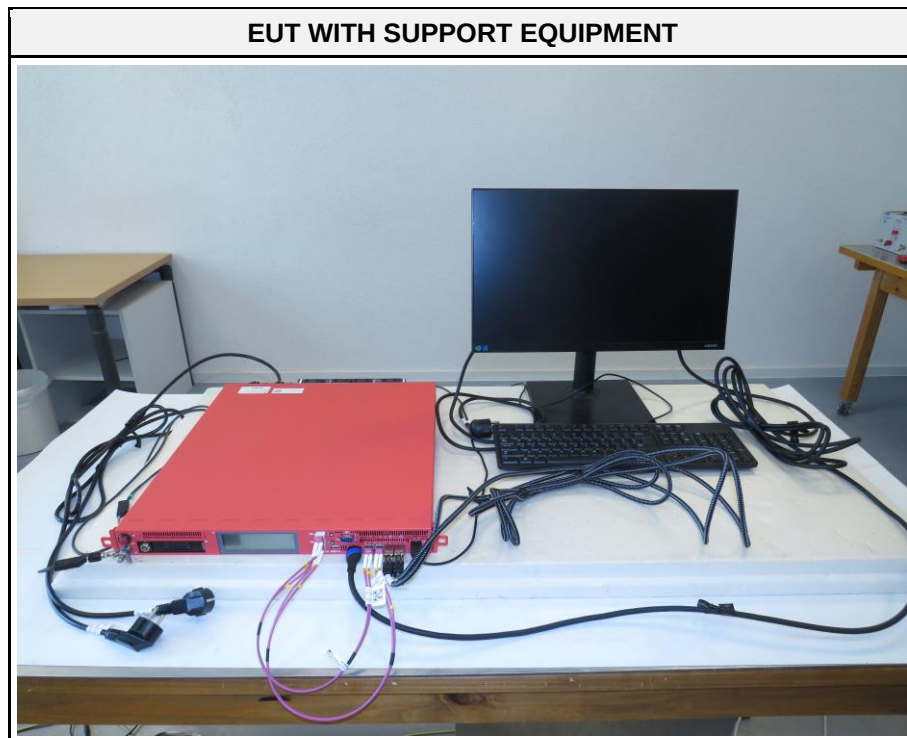
EUT INTERNAL FOCUS VIII

- Confidential -

EUT INTERNAL FOCUS IX

- Confidential -

1.3 Equipment Photos - External



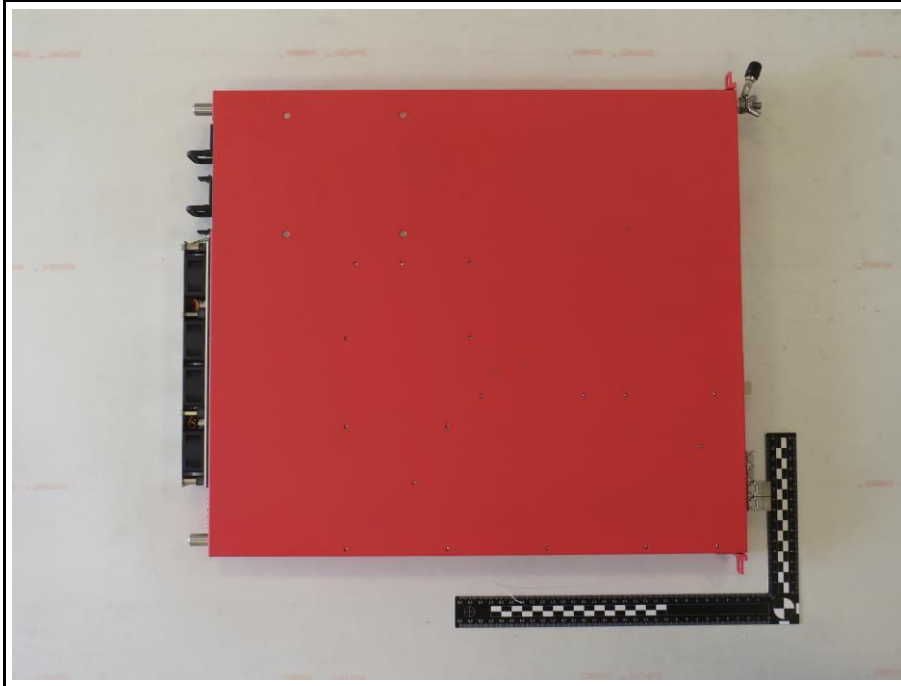
EUT FRONT SIDE



EUT LABEL



EUT BOTTOM SIDE



EUT REAR SIDE



EUT LEFT SIDE



EUT RIGHT SIDE



EUT FRONT SIDE FOCUS I



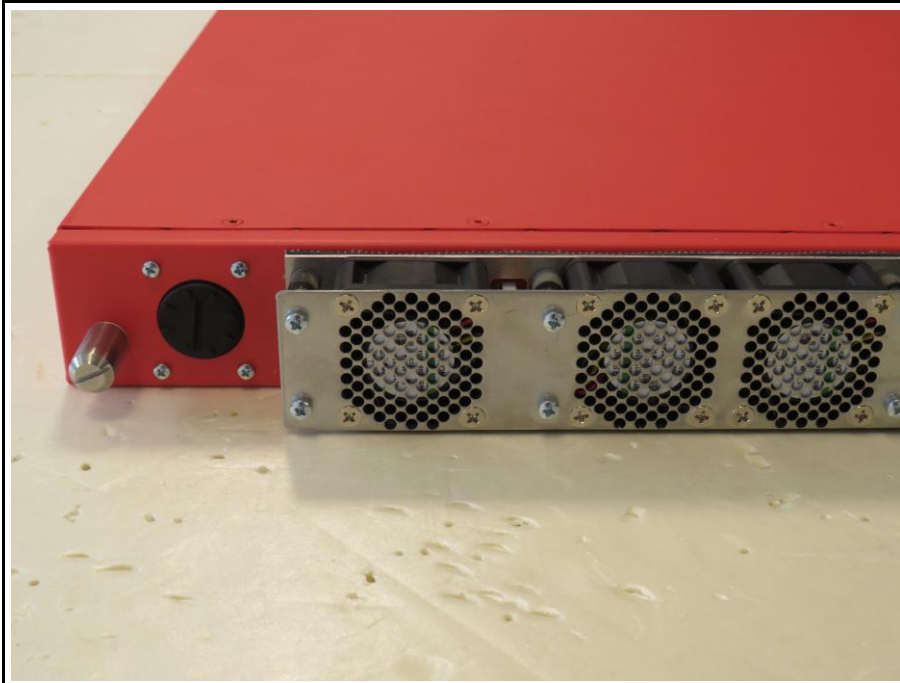
EUT FRONT SIDE FOCUS II



EUT FRONT SIDE FOCUS III



EUT REAR SIDE FOCUS I



EUT REAR SIDE FOCUS II



EUT FCC-ID LABEL



iesy GmbH
Darmcher Grund 22
D-58540 Meinerzhagen



Model: SDoT Server V3B
FCC ID: 2AZ4S-SEC-SRV-V3B
CAN ICES-003(B) / NMB-003(B)

This device complies with part 15 of the FCC Rules.
Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and
(2) this device must accept any interference received,
including interference that may cause undesired operation.



Caution - Risk of electric shock.
Attention risque de choc électrique est
dangereuse.



Disconnect mains plugs from electrical outlet.
Débrancher la prise d'alimentation du secteur.

1.4 Support Equipment

Product Type	Device	Manufacturer	Model	Comment
AE	Monitor	SAMSUNG	F22T450FQU	Customer Support Equipment
AE	Keyboard	DELL	KB212-B	Customer Support Equipment; S/N CN-01HF2Y- /1616-27Q-0I6C- A00
CBL	LWL cable	unspecified	unspecified	0.5 m; Customer Support Equipment
CBL	LWL cable	unspecified	unspecified	0.5 m; Customer Support Equipment
CBL	RJ45 cable	unspecified	unspecified	5 m; Customer Support Equipment; cable is shielded and connected to ground; CAT6
CBL	DisplayPort cable	unspecified	unspecified	5 m; Customer Support Equipment
CBL	Power cable	unspecified	unspecified	2 m; power cord 3G1,0mm²
Description:				
AE	Auxiliary Equipment			
SIM	Simulator			
MON	Monitoring Equipment			
CBL	Connecting Cable			
Comment: -				

1.5 Operational Modes

Mode	Description
1	EUT works with a special EMC Test Operation mode. EMC Test Operation mode Linux command "<code>test@v3b: ~\$./v_terminal.sh</code>". Monitor shows four areas with different network activities on the device. The two upper areas show LWL data link activity. The lower left shows the RJ45 activity. The lower right shows the performance overview. Data communications port will used in loop mode, data communication is running in max. speed. Data link N1-N2 running in 1 Gbit/s mode. Data link N5-N6 running in 1 Gbit/s mode. Data link N3-N4 running in 1 Gbit/s mode. The eight main processor units runs under max. load conditions. Communication over all Ports externally and internally + CPU power up to 100% - more information can be found in the following document: Infodas GmbH, Test Setup, SDoT Server V3B, V-220128-TSU00.pdf
Comment: --	

1.6 EUT Configuration

Configuration #	Description
1	Both power supplies (AC Mains) of EUT are connected with external laboratory power supply unit. Port N5 (LWL 10 GBE) is connected with port N6 (LWL 10 GBE) via LWL cable. Port N1 (LWL 1 GBE) is connected with port N2 (LWL 1 GBE) via LWL cable. Port N3 (RJ45) is connected with port N4 (RJ45) via RJ45 cable. Port V1 (Display Port) is connected with Monitor via DisplayPort cable. Keyboard is connected with Port U1 (USB 3.0). EUT is connected to reference ground via port Ground. All other ports are not connected or terminated.
2	Only for conducted emission test See configuration 1 AC Mains were divided in two different path. Only AC mains port 1 will be measured.
3	Only for conducted emission test See configuration 1 AC Mains were divided in two different path. Only AC mains port 2 will be measured.
Comment: --	

1.7 Sample emission level calculation

The following is a description of terms and a sample calculation, as appears in the radiated emissions data table. The numbers used in the calculation are for example only. There is no direct correlation to the specific data taken for the product described in this document:

Reading:

This is the reading obtained on the spectrum analyser in dBµV. Any external preamplifiers used are taken into account through internal analyser settings.

A.F.:

This is the antenna factor for the receiving antenna. It is a conversion factor, which converts electric fields strengths to voltages, which can be measured directly on the spectrum analyser. It is treated as a loss in dB. Cable losses have been included with the A.F. to simplify the calculations. The antenna factor is used in calculations as follows:

$$\text{Reading on Analyser (dB}\mu\text{V)} + \text{A.F. (dB/m)} = \text{Net field strength (dB}\mu\text{V/m)}$$

Net:

This is the net field strength measurement (as shown above).

Limit:

This is the FCC Class B radiated emission limit (in units of dBµV/m). The FCC limits are given in units of µV/m. The following formula is used to convert the units of µV/m to dBµV/m:

$$\text{Limit (dB}\mu\text{V/m)} = 20 \cdot \log(\mu\text{V/m})$$

Margin:

This is the margin of compliance below the FCC limit. The units are given in dB. A negative margin indicates the emission was below the limit. A positive margin indicates that the emission exceeds the limit.

Example only:

Reading + AF	= Net Reading	:	Net reading - FCC limit	= Margin
+21.5 dBµV + 26 dB/m	= 47.5 dBµV/m	:	47.5 dBµV/m - 57.0 dBµV/m	= -9.5 dB

2 Result Summary

Title 47 CFR Part 15B, ISED ICES-003 Issue 7				
Reference	Requirement	Reference Method	Result	Remarks
Emission				
FCC 15.109 ICES-003, 3.2.2	Radiated emissions	ANSI C63.4:2014 +A1:2017	PASS	-
FCC 15.107 ICES-003, 3.2.1	AC power line conducted emissions	ANSI C63.4:2014 +A1:2017	PASS	-
Comment: -				

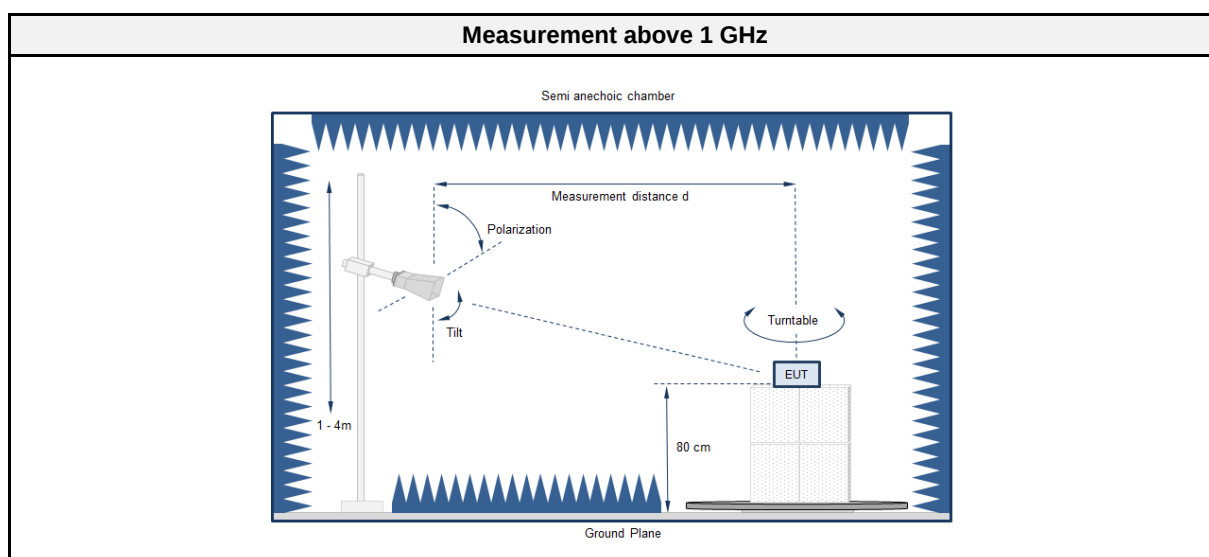
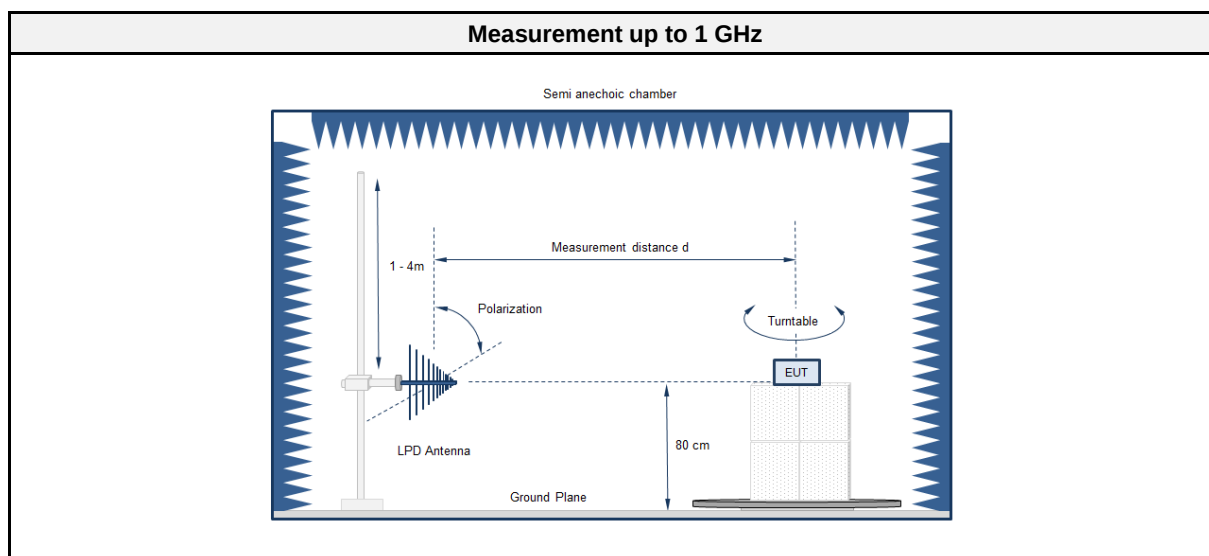
Possible Test Case Verdicts	
PASS	Test object does meet the requirements
FAIL	Test object does not meet the requirements
N/T	Required by standard but not tested
N/R	Not required by standard for the test object

2.1 Test Conditions and Results - Radiated emissions acc. to ANSI C63.4

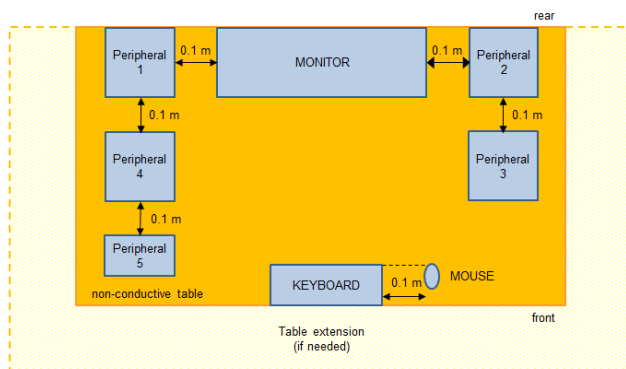
2.1.1 Information

Test Information	
Reference	FCC 15.109, ICES-003, 3.2.2
Reference method	ANSI C63.4:2014+A1:2017 Section 8
Equipment class	Class B
Equipment type	Table top
Highest internal frequency [MHz]	8000
Measurement range	30 MHz to 40000 MHz
Temperature [°C]	23 ±5
Humidity [%]	35 ±5
Operator	Marko Neuner supervised by Stephan Liebich
Date	2023-05-16 and 2023-05-26

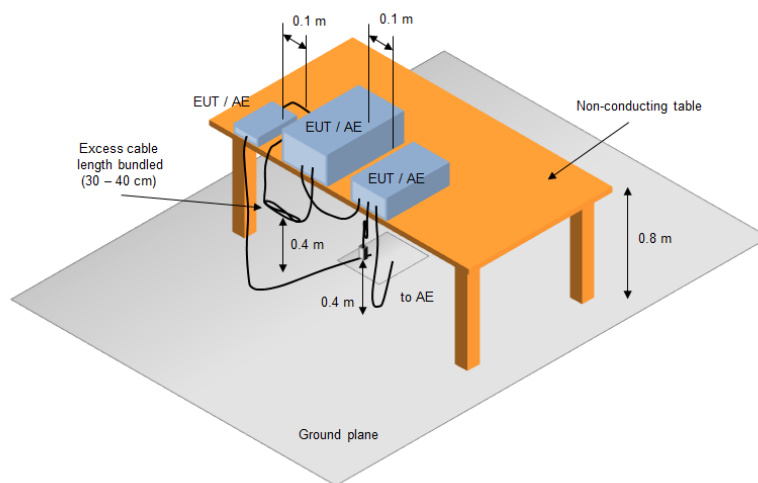
2.1.2 Setup *Table top*:



Equipment placement - Table top



Test Setup



2.1.3 Equipment

Test Software			
Description	Manufacturer	Name	Version
EMC Software	DARE Instruments	Radimation	2020.1.8

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic chamber (NSA)	Frankonia	AC1	EF00062	2022-11	2025-11
Anechoic chamber (SVSWR)	Frankonia	AC 1	EF01011	2022-11	2023-11
Programmable AC Source	Chroma ATE Inc.	61604	EF01068	2021-07	2023-07
EMI Test Receiver	Keysight	N9038A-526/WXP	EF01070	2023-02	2024-02
Trilog Broadband Antenna	Schwarzbeck	VULB 9168	EF01824	2022-10	2023-10
Horn antenna	Schwarzbeck	BBHA 9120D	EF01561	2021-11	2024-11
Double Ridged Waveguide Horn Antenna	Schwarzbeck	HWRD 650 (6,5-18GHz)	EF01679	2021-03	2024-03
40GHz High Gain Antenna	Amplifier Research	AT4560	EF00302	2021-06	2023-06
40GHz Standard Standard Gain Horn Antenna with Amplifier	Flann Microwave Ltd	22240-25 Amp. CBL26402075	EF00301	2023-01	2026-01
Spectrum analyzer	Rohde & Schwarz GmbH & Co. KG	FSU43	EF01631	2022-08	2023-08
Temperature/Humidity Sensor	Embedded Data Systems, LLC.	OW-ENV-THR	EF01122	2022-07	2023-07

2.1.4 Procedure

Exploratory measurement Table top	
1.	The EUT was placed on a non-conductive table at a height of 0.8m.
2.	The EUT and support equipment, if needed, were set up to simulate typical usage.
3.	Cables, of type and length specified by the manufacturer, were connected to at least one port of each type and were terminated by a device or simulating load of actual usage.
4.	The antenna was placed at a distance of 3 or 10 m.
5.	The received signal was monitored at the measurement receiver.
6.	This procedure has to be performed in both antenna polarizations, horizontal and vertical.
7.	The arrangement of the equipment with the maximum emission level is shown on the setup picture at item 2.1.2

Final measurement 3 m Table top	
1.	The EUT was placed on a 0.8 m non-conductive table at a 3 or 10 m distance from the receive antenna. The antenna output was connected to the measurement receiver.
2.	A broadband hybrid antenna was used for the frequency range 30 – 1000 MHz. Above one 1 GHz a Double Ridged Broadband Horn antenna was used. The antenna was placed on an adjustable height antenna mast. If required, in the range 1- 18 GHz a Double Ridged Broadband Horn antenna, in the range 18 – 40 GHz a High Gain / Standard Gain Horn was used. The antenna was placed on an adjustable height antenna mast.
3.	The EUT and cable arrangement were based on the exploratory measurement results.
4.	Emissions were maximized at each frequency by rotating the EUT and adjusting the receive antenna height and polarization. The maximum values were recorded.
5.	The test data of the worst-case conditions were recorded and shown on the next pages.

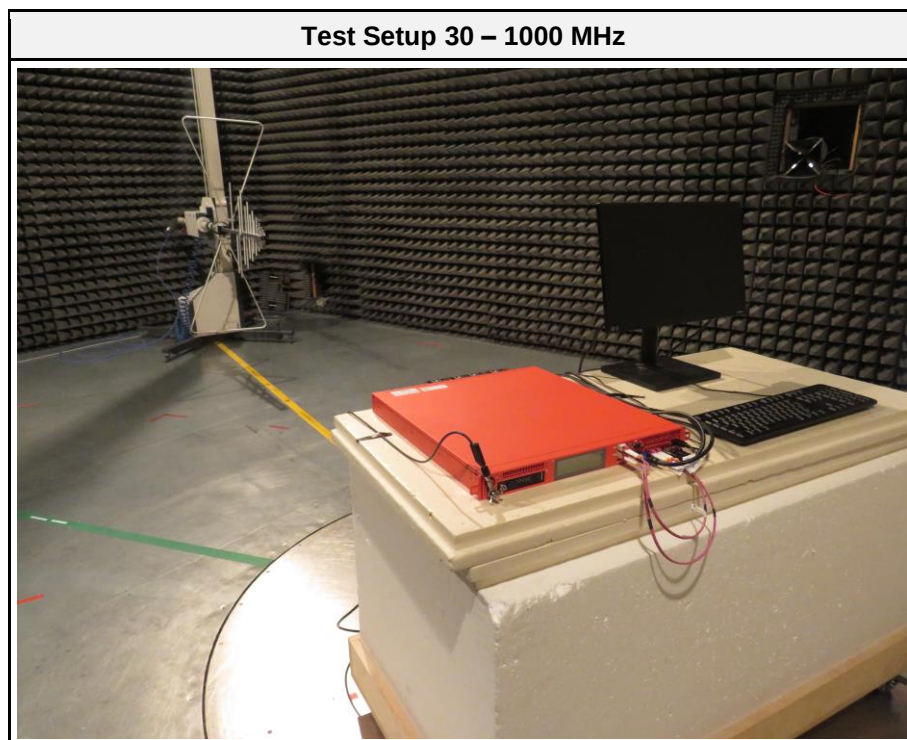
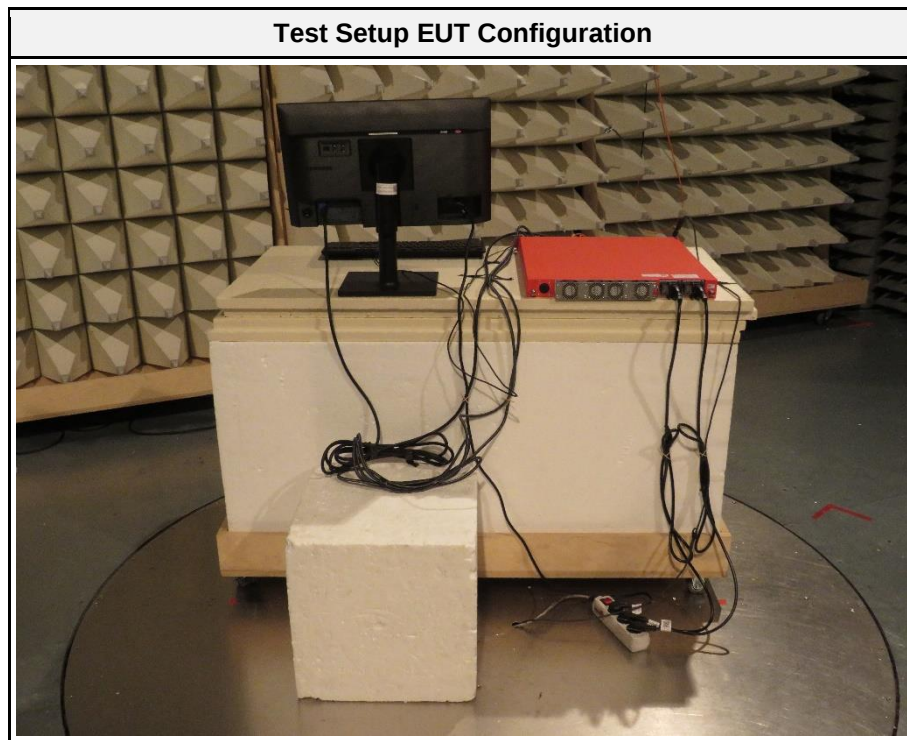
2.1.5 Limits

Class B @ 3 m		
Frequency [MHz]	Detector	Limit [dBµV/m]
30 - 88	Quasi-peak	40
88 - 216	Quasi-peak	43.5
216 - 960	Quasi-peak	46
960 - 1000	Quasi-peak	54
> 1000	Peak	74
	Average	54

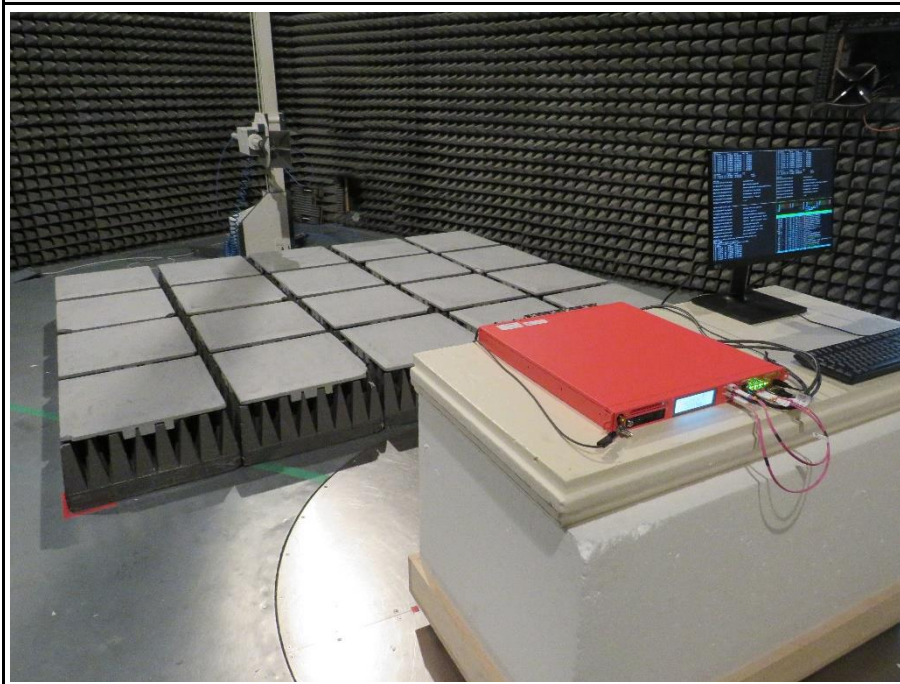
2.1.6 Results

Test Results			
Operational mode	EUT Configuration	Verdict	Remark
1	1	PASS	120 V AC / 60 Hz
Note: Power cable and GND cable length is 2 m, all other cable lengths see support equipment table.			

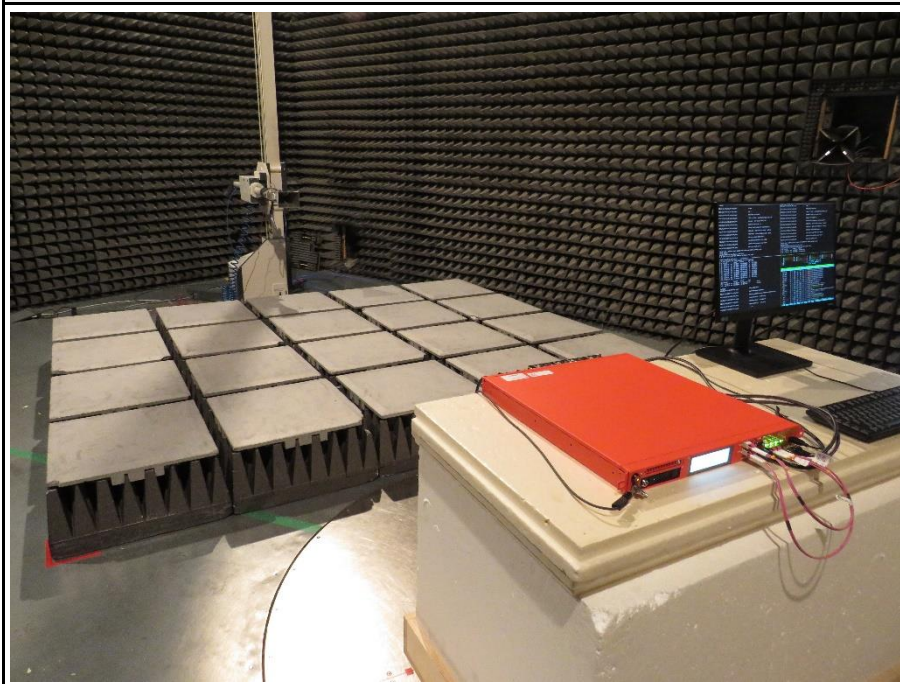
2.1.7 Setup Photos



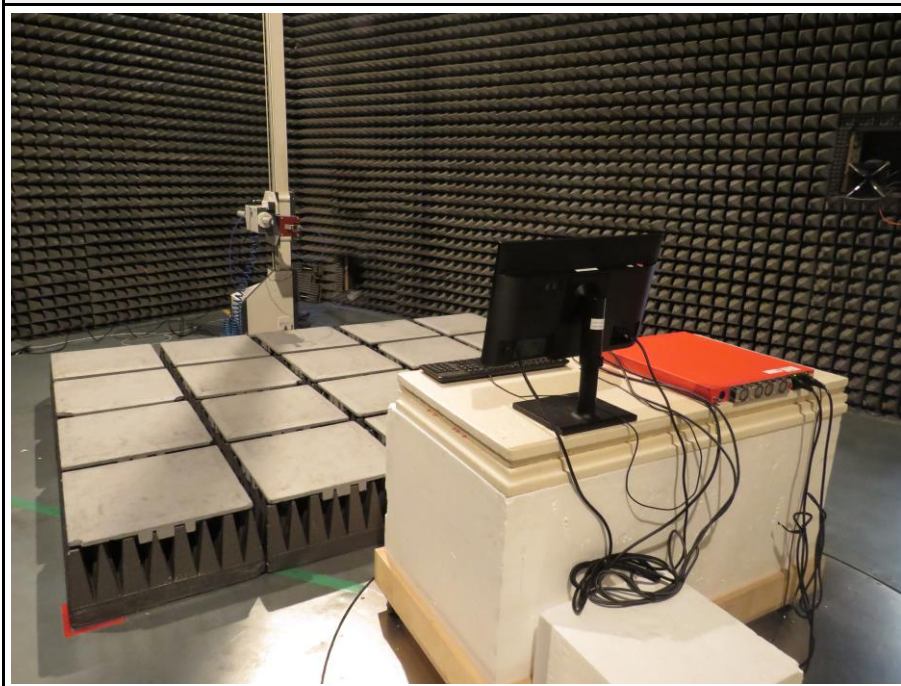
Test Setup 1 – 13 GHz



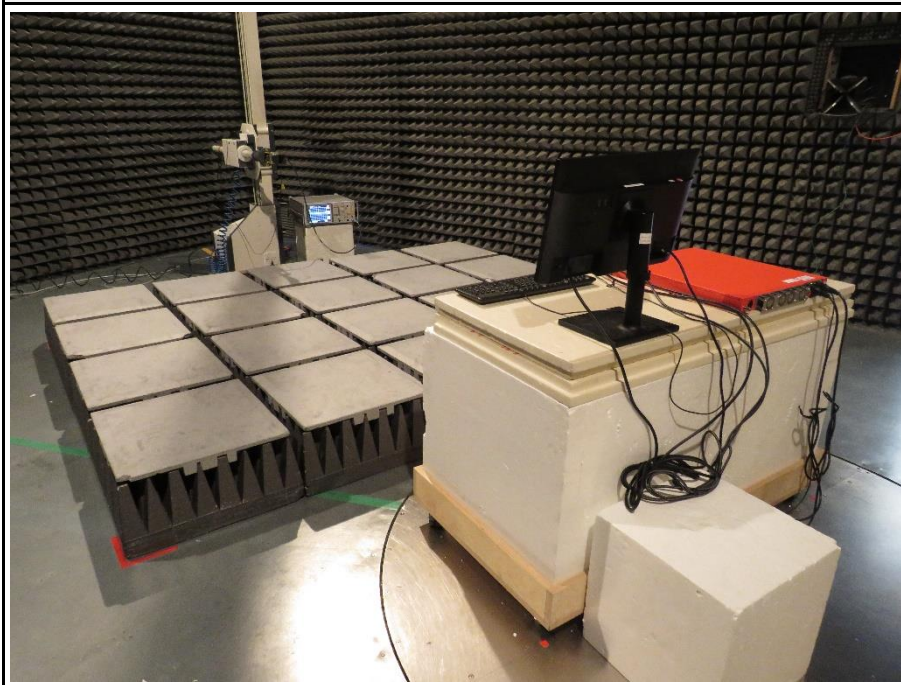
Test Setup 13 – 17 GHz



Test Setup 17 – 26.5 GHz



Test Setup 26.5 – 40 GHz



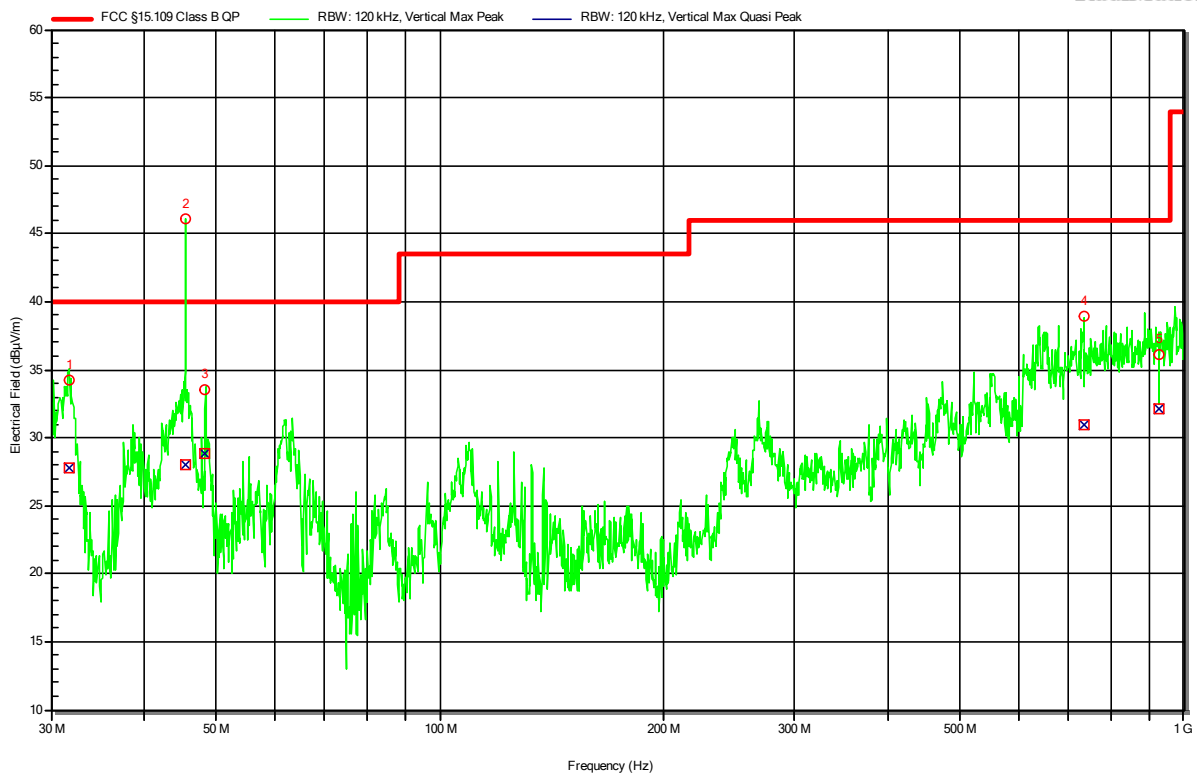
2.1.8 Records

**Radiated emissions
according to FCC part 15B**

Project Number: G0M-2304-2024
 Applicant: iesy GmbH
 Model Description: 19" Security Server 1U
 Model: SDoT Server V3B-2 HSM SN SR
 Test Sample ID: 44087
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Neuner
 Test Date: 2023-05-16
 Operating Conditions: ambient temperature: 24 °Celsius
 power input: 2x 120 V / 60 Hz by redundant power supply unit
 Antenna: Schwarzbeck VULB 9168, Vertical
 Measurement Distance: 3m
 Operational Mode: 1
 EUT Configuration: 1
 Note 1: -

Index 4

RadiMation



Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	Angle	Height
1	31.68 MHz	27.82 dBµV/m	40 dBµV/m	-12.18 dB	Pass	-135 degrees	1.7 m
2	45.45 MHz	28 dBµV/m	40 dBµV/m	-12 dB	Pass	-135 degrees	1.7 m
3	48.366 MHz	28.83 dBµV/m	40 dBµV/m	-11.17 dB	Pass	-135 degrees	1.7 m
4	735.285 MHz	30.9 dBµV/m	46.02 dBµV/m	-15.12 dB	Pass	-135 degrees	1.7 m
5	924.99 MHz	32.11 dBµV/m	46.02 dBµV/m	-13.91 dB	Pass	-135 degrees	1.7 m

Test Report No.: G0M-2304-2024-EF0115B-V02

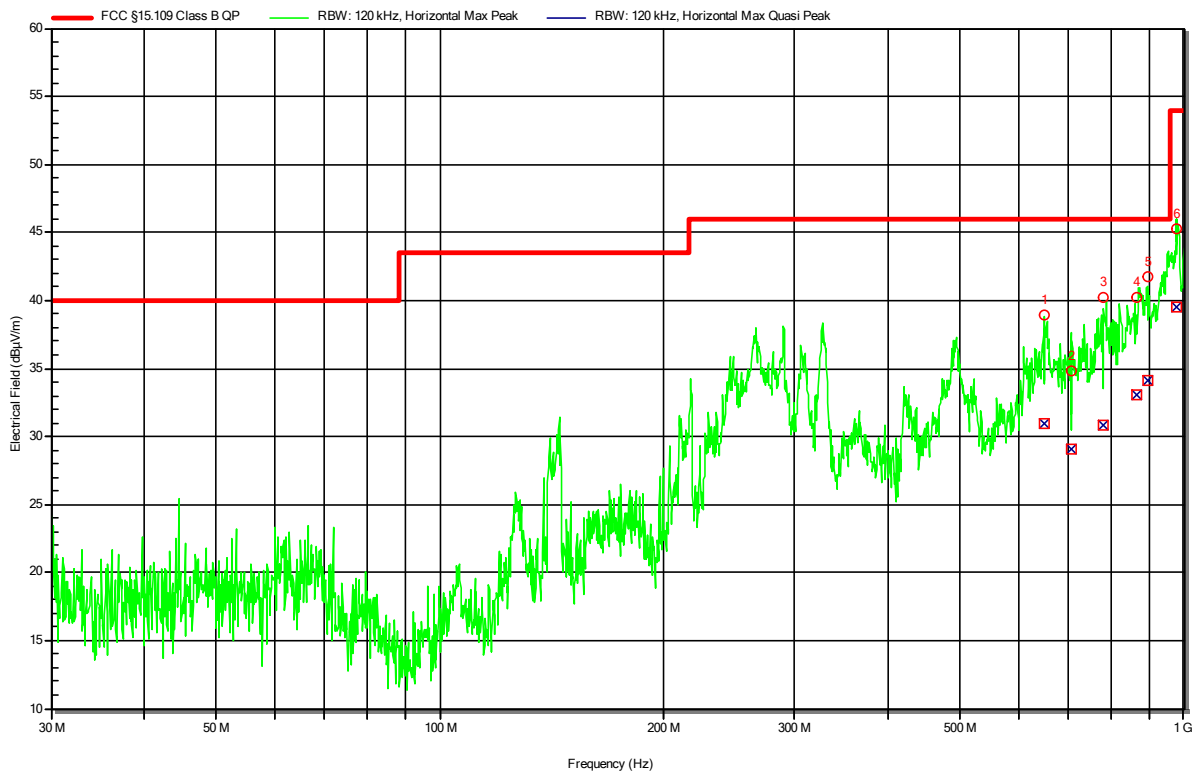
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Radiated emissions according to FCC part 15B

Project Number: G0M-2304-2024
 Applicant: iesy GmbH
 Model Description: 19" Security Server 1U
 Model: SDoT Server V3B-2 HSM SN SR
 Test Sample ID: 44087
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Neuner
 Test Date: 2023-05-16
 Operating Conditions: ambient temperature: 24 °Celsius
 power input: 2x 120 V / 60 Hz by redundant power supply unit
 Antenna: Schwarzbeck VULB 9168, Horizontal
 Measurement Distance: 3m
 Operational Mode: 1
 EUT Configuration: 1
 Note 1: -

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RadiMation



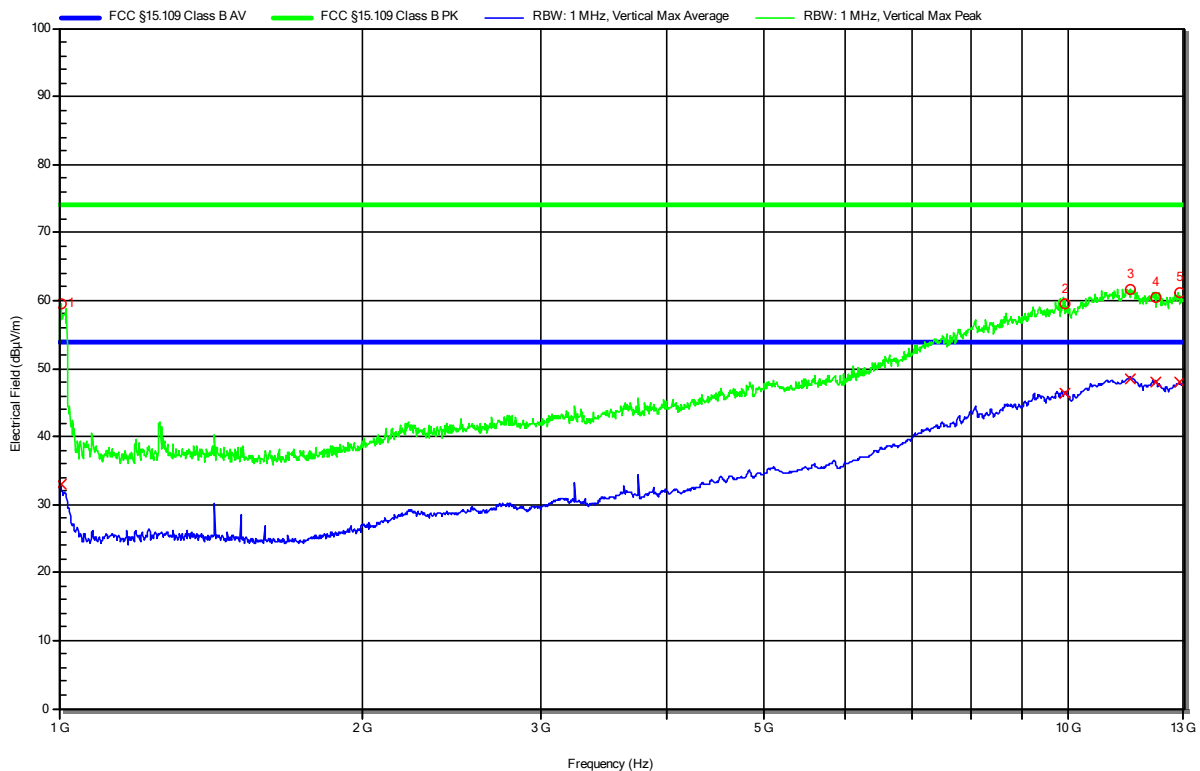
Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	Angle	Height
1	648.467 MHz	30.9 dBµV/m	46.02 dBµV/m	-15.12 dB	Pass	-43 degrees	1 m
2	707.206 MHz	29.05 dBµV/m	46.02 dBµV/m	-16.97 dB	Pass	-43 degrees	1 m
3	779.445 MHz	30.77 dBµV/m	46.02 dBµV/m	-15.25 dB	Pass	-43 degrees	1 m
4	865.423 MHz	33.06 dBµV/m	46.02 dBµV/m	-12.96 dB	Pass	-43 degrees	1 m
5	895.842 MHz	34.07 dBµV/m	46.02 dBµV/m	-11.95 dB	Pass	-43 degrees	1 m
6	979.9 MHz	39.52 dBµV/m	54 dBµV/m	-14.48 dB	Pass	-43 degrees	1 m

Radiated emissions according to FCC part 15B

Project Number: G0M-2304-2024
 Applicant: iesy GmbH
 Model Description: 19" Security Server 1U
 Model: SDoT Server V3B-2 HSM SN SR
 Test Sample ID: 44087
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Neuner
 Test Date: 2023-05-16
 Operating Conditions: ambient temperature: 24 °Celsius
 power input: 2x 120 V / 60 Hz by redundant power supply unit
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement Distance: 3m
 Operational Mode: 1
 EUT Configuration: 1
 Note 1: -

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RadiMation



Peak Number	Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Angle	Height
1	1.004 GHz	59.57 dBμV/m	73.98 dBμV/m	-14.41 dB	Pass	-34 degrees	1 m
2	9.913 GHz	59.41 dBμV/m	73.98 dBμV/m	-14.57 dB	Pass	-34 degrees	1 m
3	11.506 GHz	61.56 dBμV/m	73.98 dBμV/m	-12.42 dB	Pass	-34 degrees	1 m
4	12.186 GHz	60.54 dBμV/m	73.98 dBμV/m	-13.44 dB	Pass	-34 degrees	1 m
5	12.87 GHz	61.16 dBμV/m	73.98 dBμV/m	-12.82 dB	Pass	-34 degrees	1 m

Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	Angle	Height
1	1.004 GHz	32.87 dBμV/m	53.98 dBμV/m	-21.11 dB	Pass	-34 degrees	1 m
2	9.913 GHz	46.31 dBμV/m	53.98 dBμV/m	-7.67 dB	Pass	-34 degrees	1 m
3	11.506 GHz	48.53 dBμV/m	53.98 dBμV/m	-5.45 dB	Pass	-34 degrees	1 m
4	12.186 GHz	48.09 dBμV/m	53.98 dBμV/m	-5.89 dB	Pass	-34 degrees	1 m
5	12.87 GHz	47.89 dBμV/m	53.98 dBμV/m	-6.09 dB	Pass	-34 degrees	1 m

Test Report No.: G0M-2304-2024-EF0115B-V02

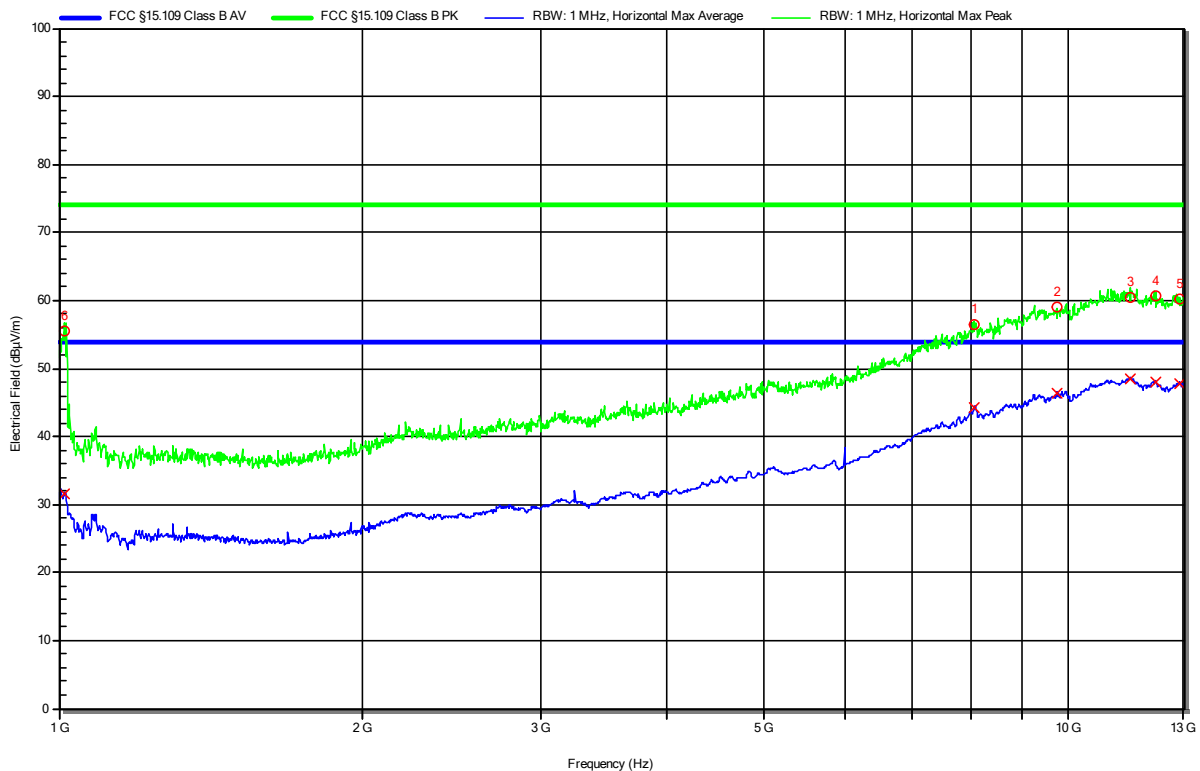
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

**Radiated emissions
according to FCC part 15B**

Project Number: G0M-2304-2024
 Applicant: iesy GmbH
 Model Description: 19" Security Server 1U
 Model: SDoT Server V3B-2 HSM SN SR
 Test Sample ID: 44087
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Neuner
 Test Date: 2023-05-16
 Operating Conditions: ambient temperature: 24 °Celsius
 power input: 2x 120 V / 60 Hz by redundant power supply unit
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement Distance: 3m
 Operational Mode: 1
 EUT Configuration: 1
 Note 1: -

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RadiMation



Peak Number	Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Angle	Height
1	8.07 GHz	56.57 dBμV/m	73.98 dBμV/m	-17.41 dB	Pass	44 degrees	1 m
2	9.724 GHz	59.11 dBμV/m	73.98 dBμV/m	-14.86 dB	Pass	44 degrees	1 m
3	11.505 GHz	60.53 dBμV/m	73.98 dBμV/m	-13.45 dB	Pass	44 degrees	1 m
4	12.198 GHz	60.61 dBμV/m	73.98 dBμV/m	-13.37 dB	Pass	44 degrees	1 m
5	12.86 GHz	60.18 dBμV/m	73.98 dBμV/m	-13.8 dB	Pass	44 degrees	1 m
6	1.012 GHz	55.63 dBμV/m	73.98 dBμV/m	-18.35 dB	Pass	44 degrees	1 m

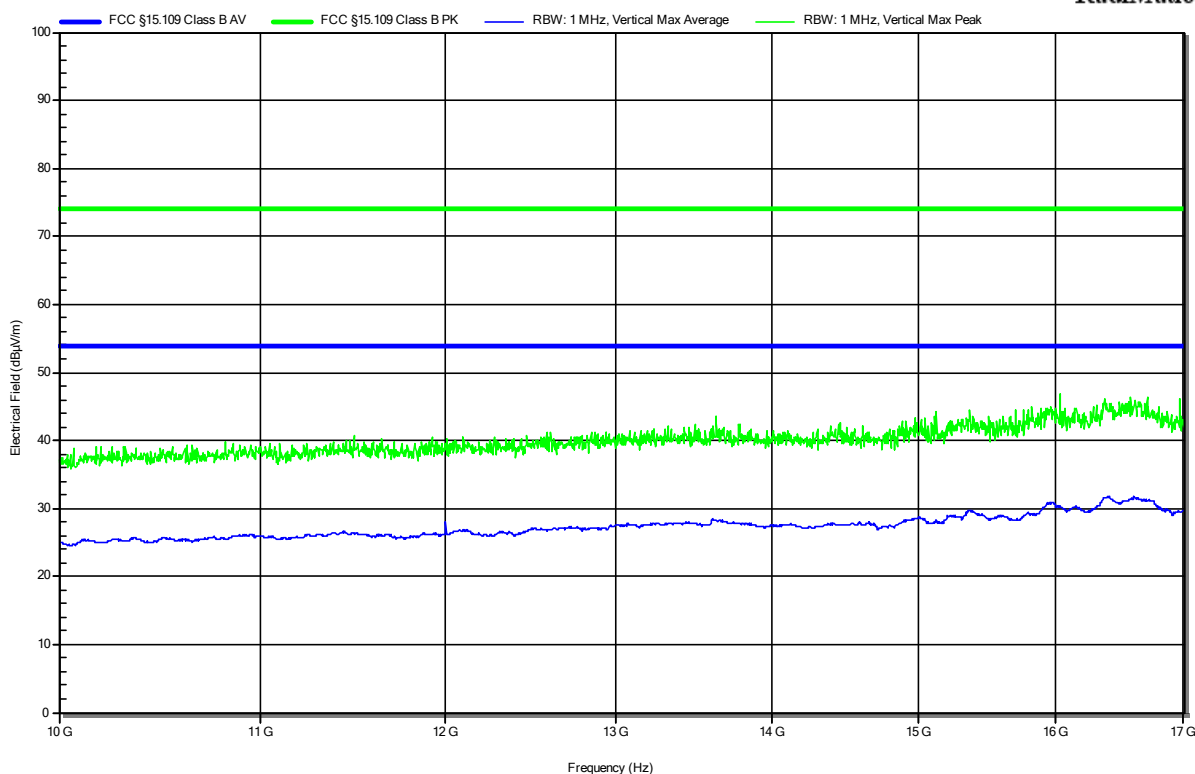
Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	Angle	Height
1	8.07 GHz	44.32 dBµV/m	53.98 dBµV/m	-9.66 dB	Pass	44 degrees	1 m
2	9.724 GHz	46.3 dBµV/m	53.98 dBµV/m	-7.67 dB	Pass	44 degrees	1 m
3	11.505 GHz	48.43 dBµV/m	53.98 dBµV/m	-5.55 dB	Pass	44 degrees	1 m
4	12.198 GHz	48.01 dBµV/m	53.98 dBµV/m	-5.97 dB	Pass	44 degrees	1 m
5	12.86 GHz	47.76 dBµV/m	53.98 dBµV/m	-6.22 dB	Pass	44 degrees	1 m
6	1.012 GHz	31.52 dBµV/m	53.98 dBµV/m	-22.46 dB	Pass	44 degrees	1 m

Radiated emissions according to FCC part 15B

Project Number:	G0M-2304-2024
Applicant:	iesy GmbH
Model Description:	19" Security Server 1U
Model:	SDoT Server V3B-2 HSM SN SR
Test Sample ID:	44087
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Neuner
Test Date:	2023-05-16
Operating Conditions:	ambient temperature: 24 °Celsius power input: 2x 120 V / 60 Hz by redundant power supply unit
Antenna:	Schwarzbeck HWRD 650, Vertical
Measurement Distance:	3m
Operational Mode:	1
EUT Configuration:	1
Note 1:	Table: 0° Antenna: 100 cm

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RadiMation

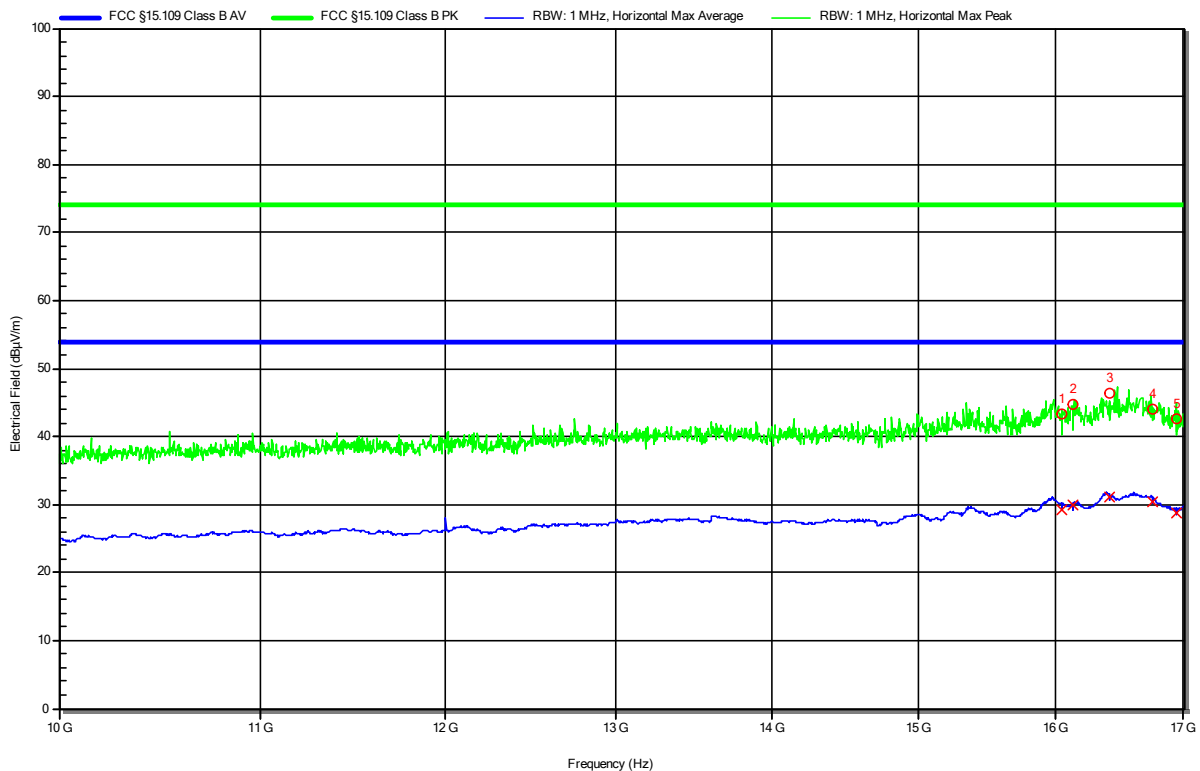


Radiated emissions according to FCC part 15B

Project Number: G0M-2304-2024
 Applicant: iesy GmbH
 Model Description: 19" Security Server 1U
 Model: SDoT Server V3B-2 HSM SN SR
 Test Sample ID: 44087
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Neuner
 Test Date: 2023-05-16
 Operating Conditions: ambient temperature: 24 °Celsius
 power input: 2x 120 V / 60 Hz by redundant power supply unit
 Antenna: Schwarzbeck HWRD 650, Horizontal
 Measurement Distance: 3m
 Operational Mode: 1
 EUT Configuration: 1
 Note 1: -

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RadiMation



Peak Number	Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Angle	Height
1	16.047 GHz	43.2 dBµV/m	73.98 dBµV/m	-30.78 dB	Pass	0 degrees	1 m
2	16.134 GHz	44.62 dBµV/m	73.98 dBµV/m	-29.36 dB	Pass	0 degrees	1 m
3	16.419 GHz	46.41 dBµV/m	73.98 dBµV/m	-27.57 dB	Pass	0 degrees	1 m
4	16.748 GHz	43.98 dBµV/m	73.98 dBµV/m	-29.99 dB	Pass	0 degrees	1 m
5	16.947 GHz	42.49 dBµV/m	73.98 dBµV/m	-31.49 dB	Pass	0 degrees	1 m

Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	Angle	Height
1	16.047 GHz	29.24 dBµV/m	53.98 dBµV/m	-24.74 dB	Pass	0 degrees	1 m
2	16.134 GHz	29.94 dBµV/m	53.98 dBµV/m	-24.04 dB	Pass	0 degrees	1 m
3	16.419 GHz	31.2 dBµV/m	53.98 dBµV/m	-22.78 dB	Pass	0 degrees	1 m
4	16.748 GHz	30.45 dBµV/m	53.98 dBµV/m	-23.52 dB	Pass	0 degrees	1 m
5	16.947 GHz	28.73 dBµV/m	53.98 dBµV/m	-25.25 dB	Pass	0 degrees	1 m

Test Report No.: G0M-2304-2024-EF0115B-V02

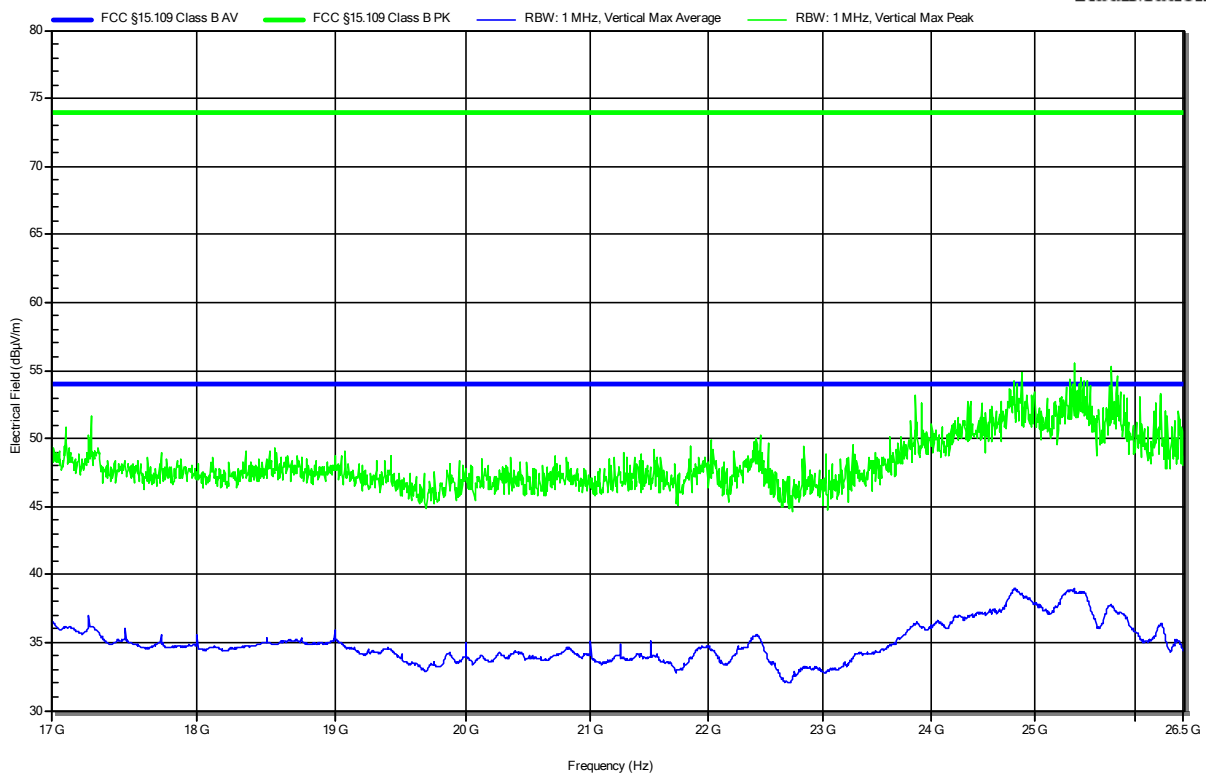
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Radiated emissions according to FCC part 15B

Project Number: G0M-2304-2024
 Applicant: iesy GmbH
 Model Description: 19" Security Server 1U
 Model: SDoT Server V3B-2 HSM SN SR
 Test Sample ID: 44087
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Neuner
 Test Date: 2023-05-26
 Operating Conditions: ambient temperature: 23 °Celsius
 power input: 2x 120 V / 60 Hz by redundant power supply unit
 Antenna: Amplifier Research AT4560, Vertical
 Measurement Distance: 3m
 Operational Mode: 1
 EUT Configuration: 1
 Note 1: Table: 0°
 Antenna: 100 cm

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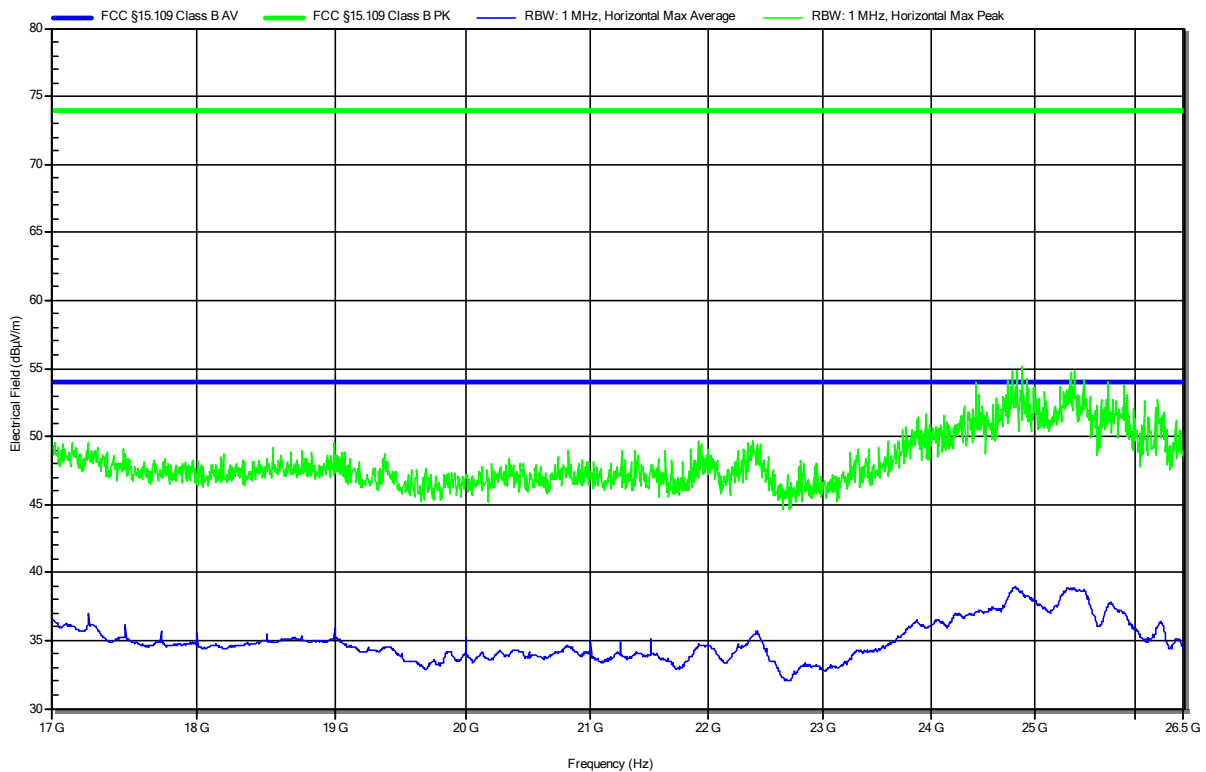


Radiated emissions according to FCC part 15B

Project Number:	G0M-2304-2024
Applicant:	iesy GmbH
Model Description:	19" Security Server 1U
Model:	SDoT Server V3B-2 HSM SN SR
Test Sample ID:	44087
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Neuner
Test Date:	2023-05-26
Operating Conditions:	ambient temperature: 23 °Celsius power input: 2x 120 V / 60 Hz by redundant power supply unit
Antenna:	Amplifier Research AT4560, Horizontal
Measurement Distance:	3m
Operational Mode:	1
EUT Configuration:	1
Note 1:	Table: 0° Antenna: 100 cm

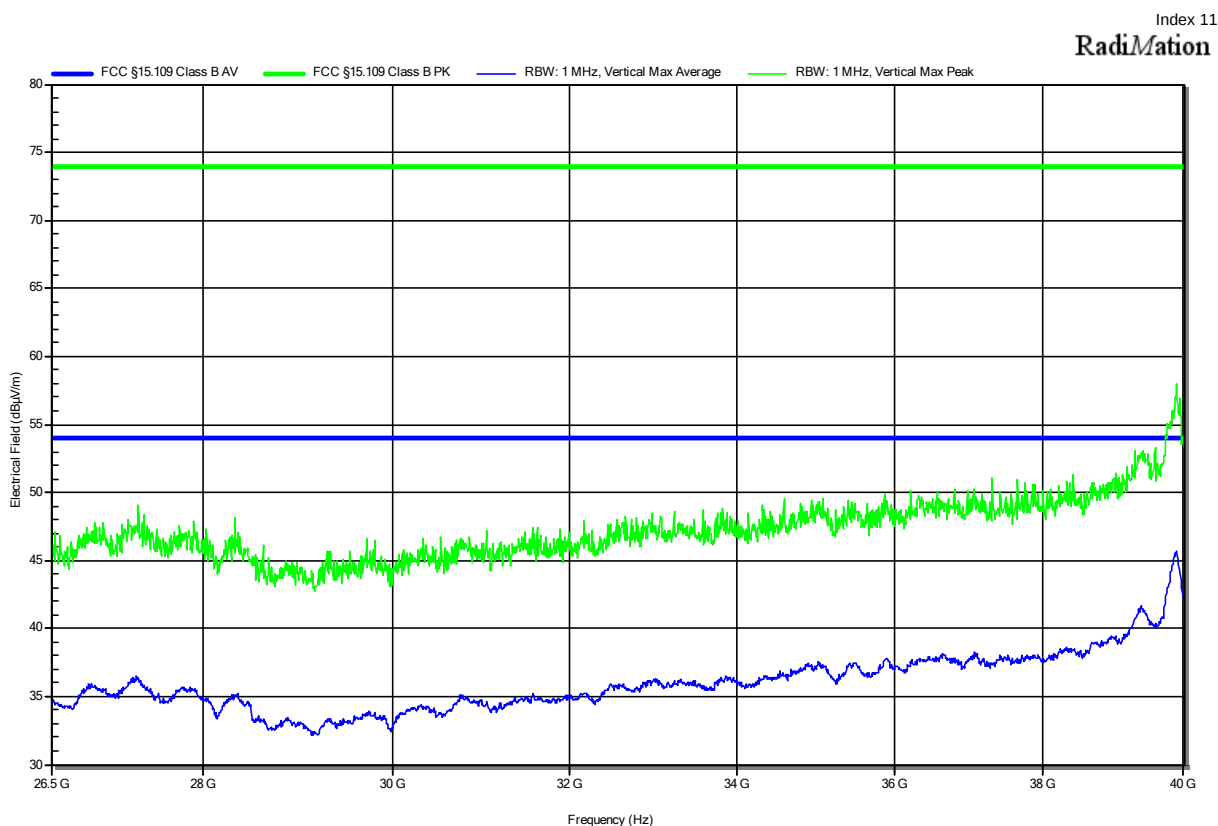
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RadiMation



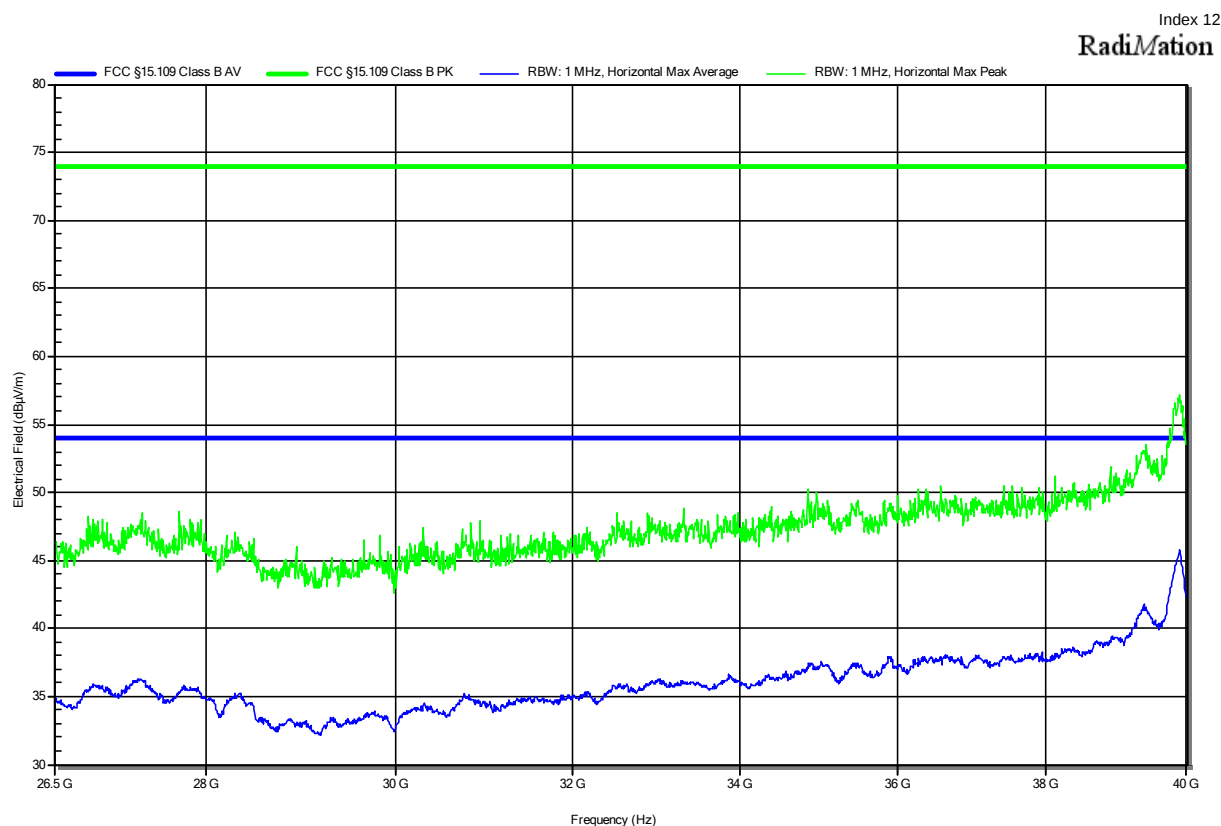
Radiated emissions according to FCC part 15B

Project Number:	G0M-2304-2024
Applicant:	iesy GmbH
Model Description:	19" Security Server 1U
Model:	SDoT Server V3B-2 HSM SN SR
Test Sample ID:	44087
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Neuner
Test Date:	2023-05-26
Operating Conditions:	ambient temperature: 24 °Celsius power input: 2x 120 V / 60 Hz by redundant power supply unit
Antenna:	22240-25, Vertical
Measurement Distance:	3m
Operational Mode:	1
EUT Configuration:	1
Note 1:	Table: 180° Antenna: 100 cm



Radiated emissions according to FCC part 15B

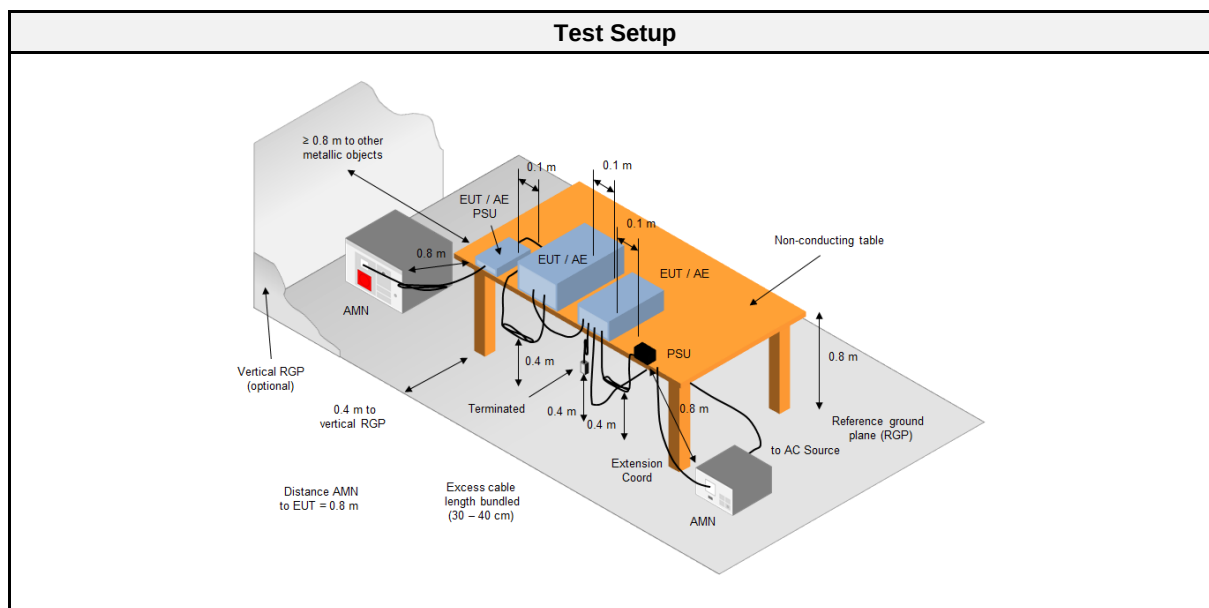
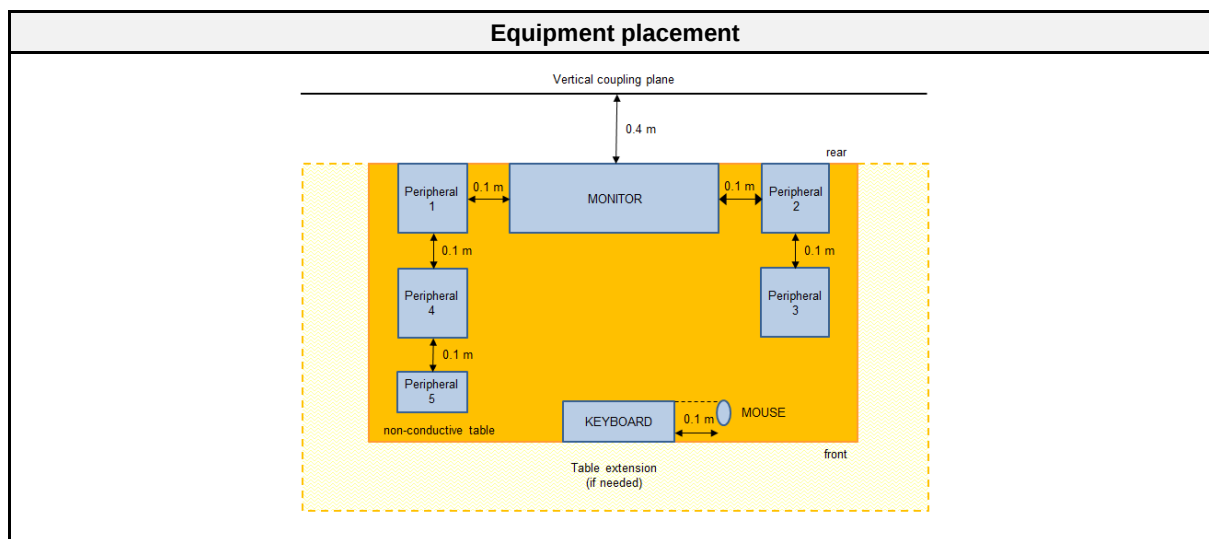
Project Number:	G0M-2304-2024
Applicant:	iesy GmbH
Model Description:	19" Security Server 1U
Model:	SDoT Server V3B-2 HSM SN SR
Test Sample ID:	44087
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Neuner
Test Date:	2023-05-26
Operating Conditions:	ambient temperature: 24 °Celsius power input: 2x 120 V / 60 Hz by redundant power supply unit
Antenna:	22240-25, Horizontal
Measurement Distance:	3m
Operational Mode:	1
EUT Configuration:	1
Note 1:	Table: 180° Antenna: 100 cm



2.2.1 Information

Test Information	
Reference	FCC 15.107, ICES-003, 3.2.1
Reference method	ANSI C63.4:2014+A1:2017 Section 12
Measurement range	150 kHz to 30 MHz
Equipment class	Class B
Equipment type	Table top
Temperature [°C]	22 ±3
Humidity [%]	36 ±5
Operator	Marko Neuner
Date	2023-05-16

2.2.2 Setup *Table top*



2.2.3 Equipment

Test Software			
Description	Manufacturer	Name	Version
EMC Software	DARE Instruments	Radimation	2020.1.8

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
AMN	R&S	ESH3-Z5	EF00036	2021-08	2023-08
Artificial mains network	Rohde & Schwarz	ESH2-Z5	EF00182	2021-07	2023-07
Pulse Limiter	R&S	ESH3-Z2	EF01063	2021-07	2023-07
EMI Test Receiver	R&S	ESR 7	EF00943	2022-07	2023-07
Climatic Sensor	Embedded Data Systems, LLC.	2800100000254 17E	EF01122	2022-07	2023-07

2.2.4 Procedure

Exploratory measurement Table top	
1.	The EUT was placed on a non-conductive table 0.8 m above the reference ground plane and 0.4 m away from the vertical conducting plane (ANSI C63.4: 2014 item 7.3.1)
2.	The power cord that is normally supplied or recommended by the manufacturer was connected to the LISN.
3.	The distance between the outer edge of the EUT and the LISN shall be set to 0.8 m. A longer power cord shall be bundled to this length (bundling shall not exceed 40 cm in length).
4.	The LISN measurement port was connected to a measurement receiver
5.	I/O cables were bundled not longer than 0.4 m
6.	Measurement was performed in the frequency range 0.15 – 30MHz on each current-carrying conductor
7.	To maximize the emissions the cable positions were manipulated
8.	The worst configuration of EUT and cables is shown on a test setup picture at item 2.2.2

Final measurement Table Top	
1.	The EUT was placed on a non-conductive table 0.8 m above the reference ground plane and 0.4 m away from the vertical conducting plane (ANSI C63.4: 2014 item 7.3.1)
2.	The power cord that is normally supplied or recommended by the manufacturer was connected to the LISN.
3.	The distance between the outer edge of the EUT and the LISN shall be set to 0.8 m. A longer power cord shall be bundled to this length (bundling shall not exceed 40 cm in length).
4.	The LISN measurement port was connected to a measurement receiver
5.	The EUT and cable arrangement were based on the exploratory measurement results
6.	The test data of the worst-case conditions were recorded and shown on the next pages

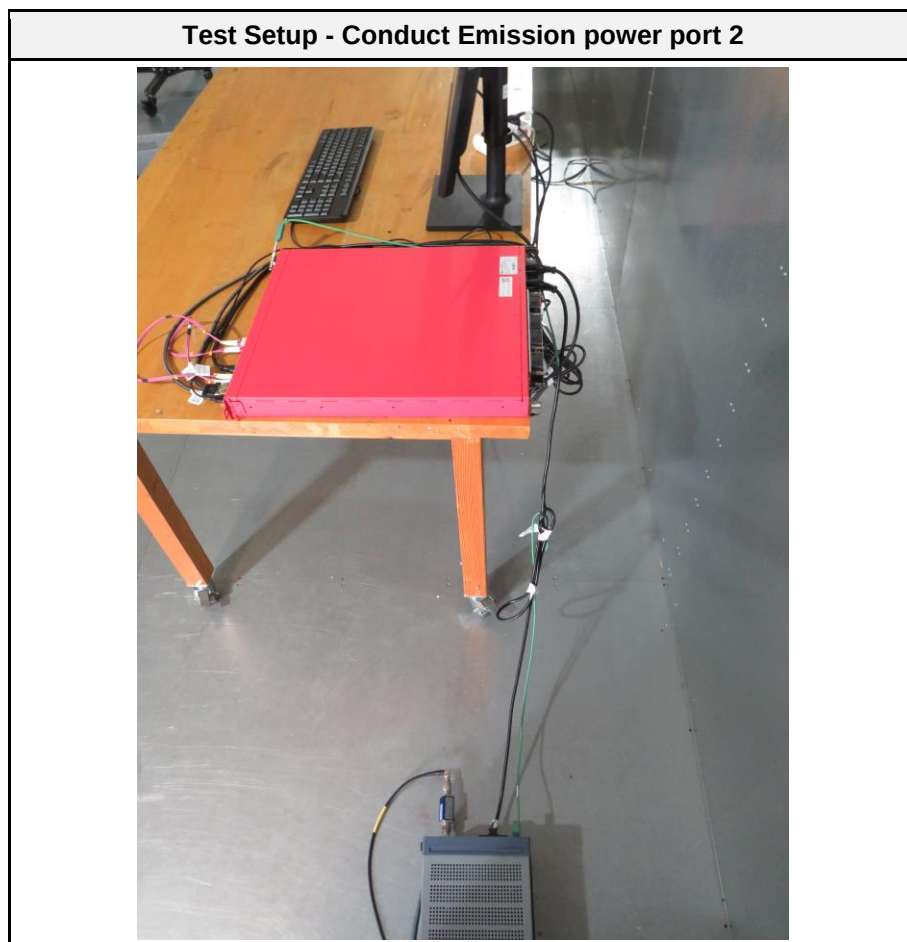
2.2.5 Limits

Class B		
Frequency [MHz]	Quasi-peak Limit [dBμV]	Average Limit [dBμV]
0.15 - 0.5	66 - 56 *	56 - 46 *
0.5 - 5	56	46
5 - 30	60	50
* Decreases with the logarithm of the frequency		

2.2.6 Results

AC power line conducted emissions					
Port	Coupling	Operational mode	EUT Configuration	Verdict	Remark
AC Mains	AMN	1	1	PASS	120 V AC / 60 Hz
AC Mains	AMN	1	2	PASS	120 V AC / 60 Hz
AC Mains	AMN	1	3	PASS	120 V AC / 60 Hz
Note: Power cable length is 2 m, all other cable lengths are 3 m.					

2.2.7 Setup Photos



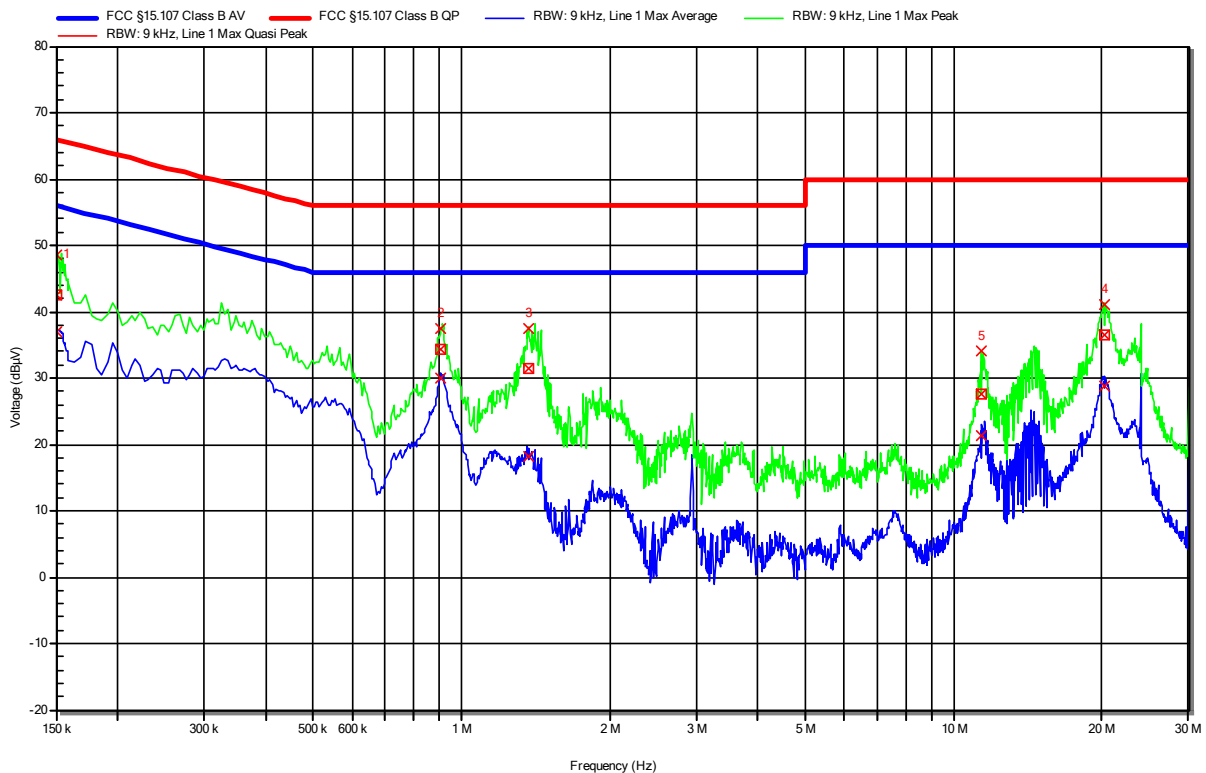
2.2.8 Records

Conducted emissions at the mains power port according to FCC part 15B

Project Number: G0M-2304-2024
 Applicant: iesy GmbH
 Model Description: 19" Security Server 1U
 Model: SDoT Server V3B-2 HSM SN SR
 Test Sample ID: 44087
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Neuner
 Test Date: 2023-05-16
 Operating Conditions: ambient temperature: 22 °Celsius
 power input: 2x 120 V / 60 Hz by redundant power supply unit
 LISN: ESH3-Z5 (L)
 Operational Mode: 1
 EUT Configuration: 2
 Applied to Port: AC Mains
 Note 1: -

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RadiMation



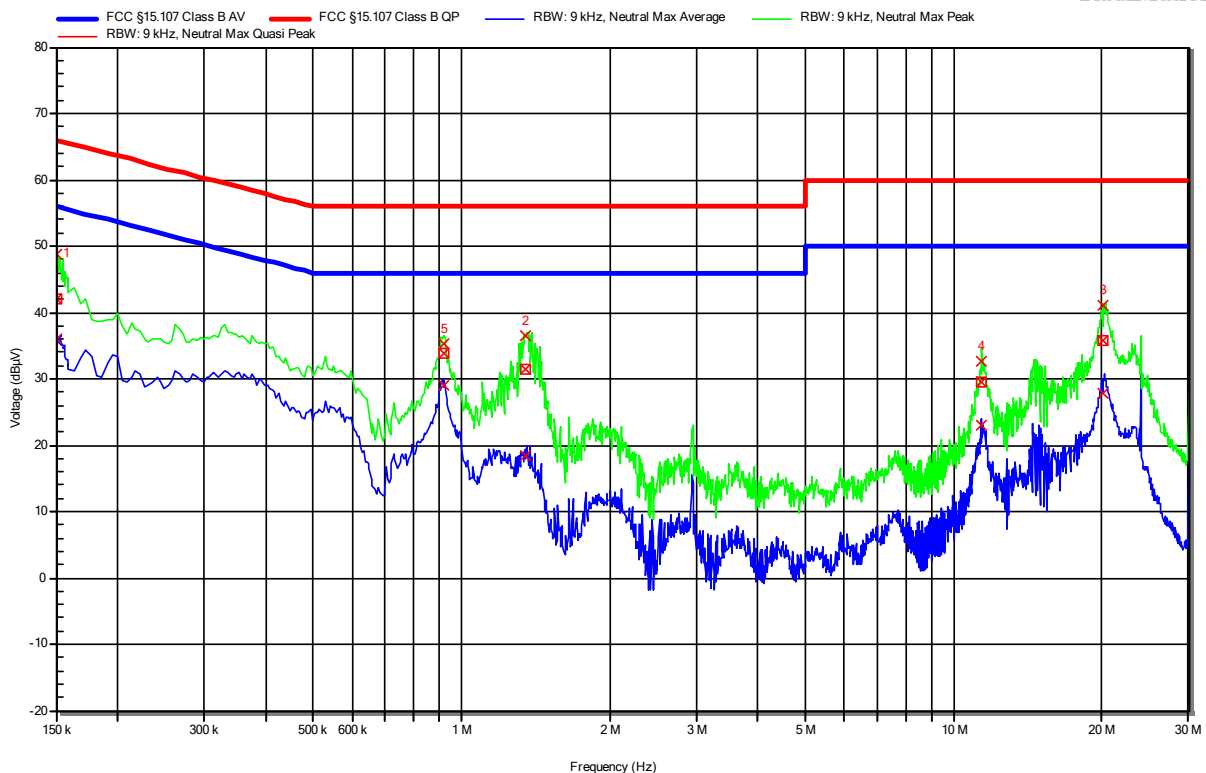
Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	LISN
1	150.9 kHz	42.62 dBμV	65.95 dBμV	-23.33 dB	Pass	Line 1
2	910.5 kHz	34.36 dBμV	56 dBμV	-21.64 dB	Pass	Line 1
3	1.365 MHz	31.5 dBμV	56 dBμV	-24.5 dB	Pass	Line 1
4	20.31 MHz	36.51 dBμV	60 dBμV	-23.49 dB	Pass	Line 1
5	11.369 MHz	27.52 dBμV	60 dBμV	-32.48 dB	Pass	Line 1

Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	LISN
1	150.9 kHz	36.95 dB μ V	55.95 dB μ V	-19 dB	Pass	Line 1
2	910.5 kHz	30.01 dB μ V	46 dB μ V	-15.99 dB	Pass	Line 1
3	1.365 MHz	18.19 dB μ V	46 dB μ V	-27.81 dB	Pass	Line 1
4	20.31 MHz	28.91 dB μ V	50 dB μ V	-21.09 dB	Pass	Line 1
5	11.369 MHz	21.33 dB μ V	50 dB μ V	-28.67 dB	Pass	Line 1

**Conducted emissions at the mains power port
according to FCC part 15B**

Project Number: G0M-2304-2024
 Applicant: iesy GmbH
 Model Description: 19" Security Server 1U
 Model: SDoT Server V3B-2 HSM SN SR
 Test Sample ID: 44087
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Neuner
 Test Date: 2023-05-16
 Operating Conditions: ambient temperature: 22 °Celsius
 power input: 2x 120 V / 60 Hz by redundant power supply unit
 LISN: ESH3-Z5 (N)
 Operational Mode: 1
 EUT Configuration: 2
 Applied to Port: AC Mains
 Note 1: -

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Radiation

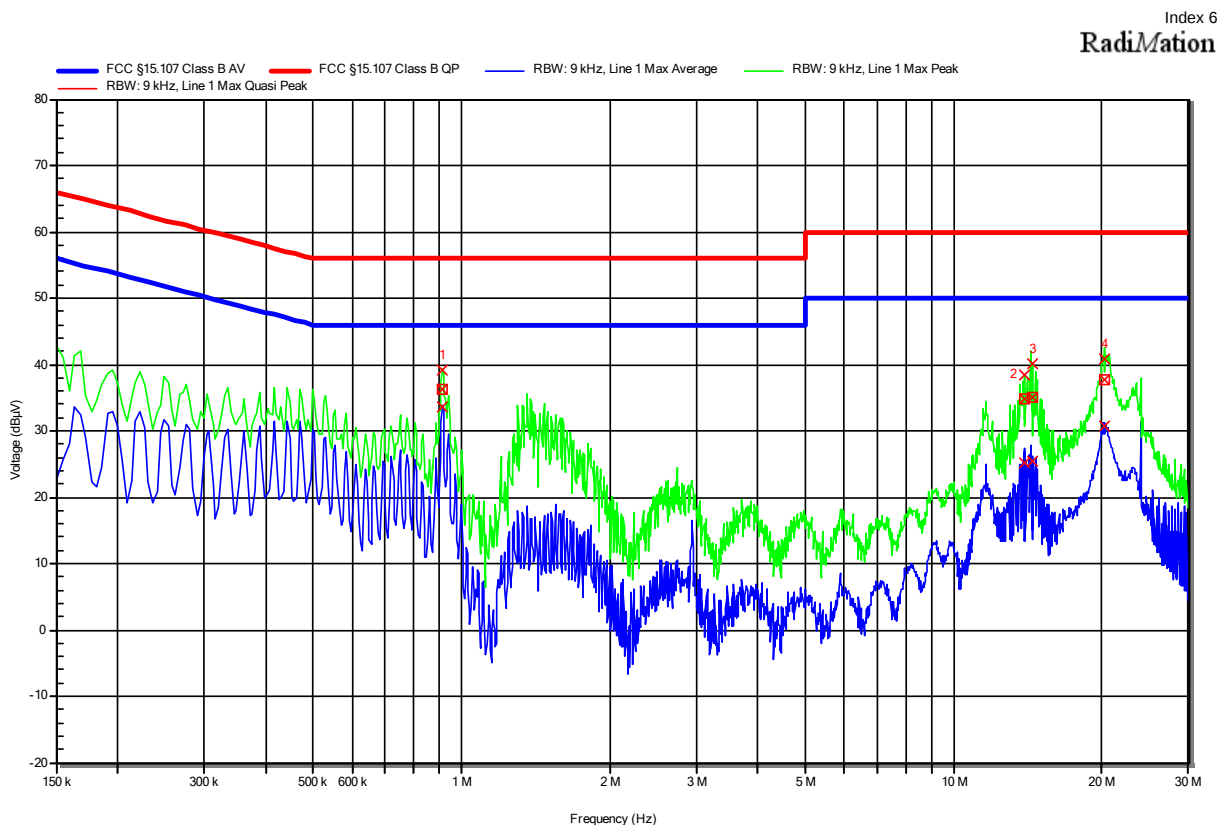


Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	LISN
1	150.45 kHz	42.06 dBµV	65.98 dBµV	-23.92 dB	Pass	Neutral
2	1.351 MHz	31.42 dBµV	56 dBµV	-24.58 dB	Pass	Neutral
3	20.099 MHz	35.68 dBµV	60 dBµV	-24.32 dB	Pass	Neutral
4	11.412 MHz	29.47 dBµV	60 dBµV	-30.53 dB	Pass	Neutral
5	919.5 kHz	33.81 dBµV	56 dBµV	-22.19 dB	Pass	Neutral

Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	LISN
1	150.45 kHz	35.93 dBμV	55.98 dBμV	-20.04 dB	Pass	Neutral
2	1.351 MHz	18.48 dBμV	46 dBμV	-27.52 dB	Pass	Neutral
3	20.099 MHz	27.89 dBμV	50 dBμV	-22.11 dB	Pass	Neutral
4	11.412 MHz	22.99 dBμV	50 dBμV	-27.01 dB	Pass	Neutral
5	919.5 kHz	29.03 dBμV	46 dBμV	-16.97 dB	Pass	Neutral

**Conducted emissions at the mains power port
according to FCC part 15B**

Project Number: G0M-2304-2024
 Applicant: iesy GmbH
 Model Description: 19" Security Server 1U
 Model: SDoT Server V3B-2 HSM SN SR
 Test Sample ID: 44087
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Neuner
 Test Date: 2023-05-16
 Operating Conditions: ambient temperature: 22 °Celsius
 power input: 2x 120 V / 60 Hz by redundant power supply unit
 LISN: ESH3-Z5 (L)
 Operational Mode: 1
 EUT Configuration: 3
 Applied to Port: AC Mains
 Note 1: -



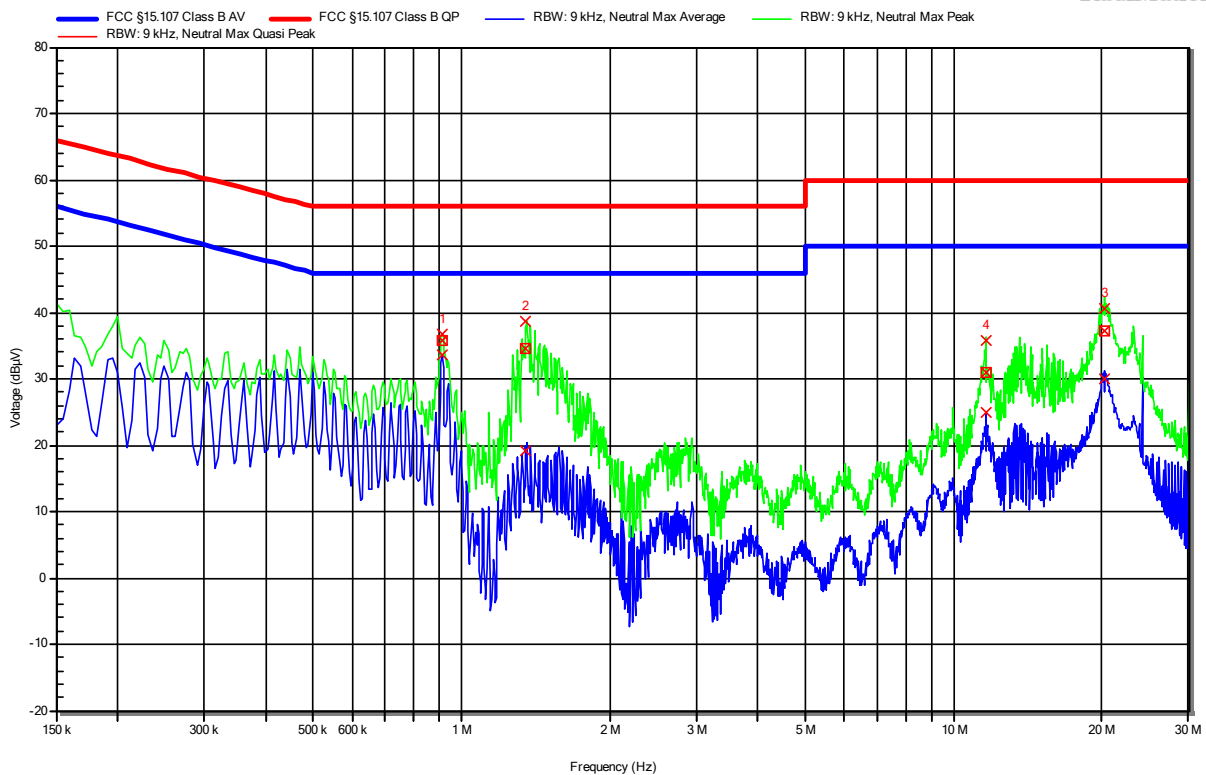
Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	LISN
1	913.2 kHz	36.18 dBµV	56 dBµV	-19.82 dB	Pass	Line 1
2	13.954 MHz	34.9 dBµV	60 dBµV	-25.1 dB	Pass	Line 1
3	14.419 MHz	34.94 dBµV	60 dBµV	-25.06 dB	Pass	Line 1
4	20.306 MHz	37.79 dBµV	60 dBµV	-22.21 dB	Pass	Line 1

Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	LISN
1	913.2 kHz	33.71 dBµV	46 dBµV	-12.29 dB	Pass	Line 1
2	13.954 MHz	25.1 dBµV	50 dBµV	-24.9 dB	Pass	Line 1
3	14.419 MHz	25.37 dBµV	50 dBµV	-24.63 dB	Pass	Line 1
4	20.306 MHz	30.77 dBµV	50 dBµV	-19.23 dB	Pass	Line 1

**Conducted emissions at the mains power port
according to FCC part 15B**

Project Number: G0M-2304-2024
 Applicant: iesy GmbH
 Model Description: 19" Security Server 1U
 Model: SDoT Server V3B-2 HSM SN SR
 Test Sample ID: 44087
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Neuner
 Test Date: 2023-05-16
 Operating Conditions: ambient temperature: 22 °Celsius
 power input: 2x 120 V / 60 Hz by redundant power supply unit
 LISN: ESH3-Z5 (N)
 Operational Mode: 1
 EUT Configuration: 3
 Applied to Port: AC Mains
 Note 1: -

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Radiation



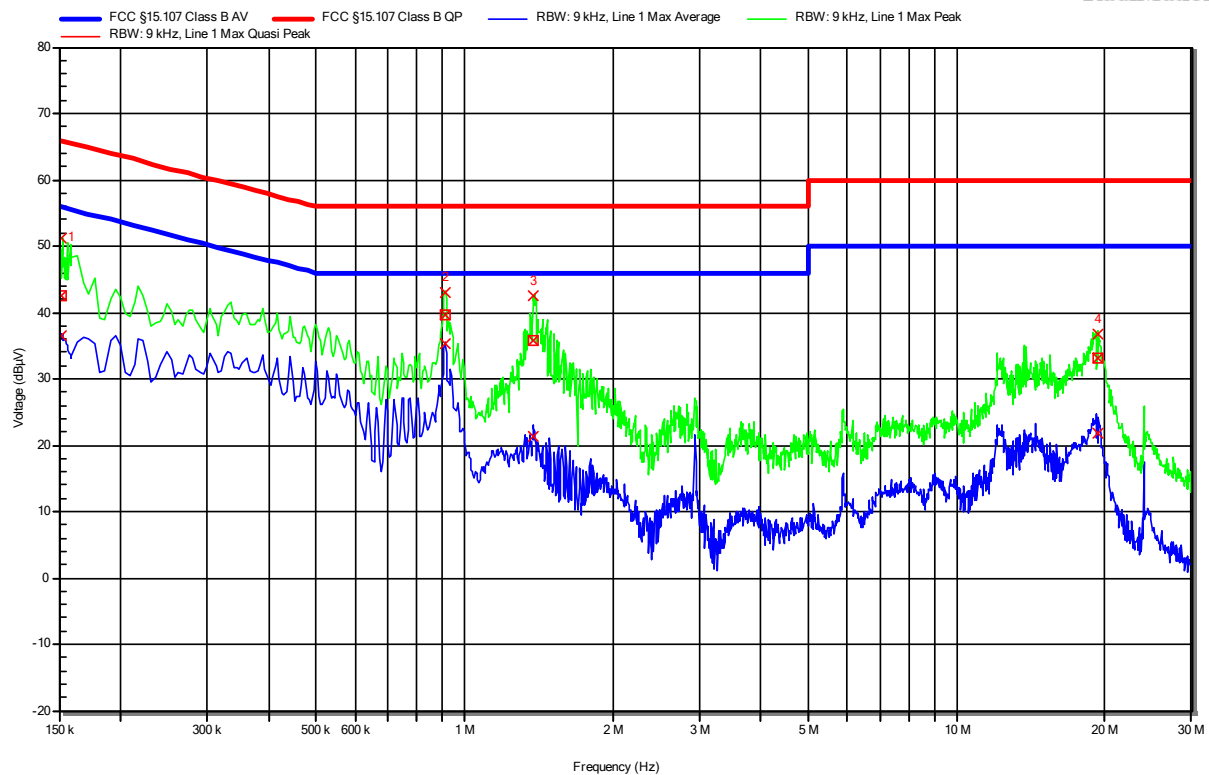
Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	LISN
1	912.75 kHz	35.77 dBµV	56 dBµV	-20.23 dB	Pass	Neutral
2	1.353 MHz	34.55 dBµV	56 dBµV	-21.45 dB	Pass	Neutral
3	20.229 MHz	37.18 dBµV	60 dBµV	-22.82 dB	Pass	Neutral
4	11.616 MHz	30.93 dBµV	60 dBµV	-29.07 dB	Pass	Neutral

Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	LISN
1	912.75 kHz	33.56 dBµV	46 dBµV	-12.44 dB	Pass	Neutral
2	1.353 MHz	19.22 dBµV	46 dBµV	-26.78 dB	Pass	Neutral
3	20.229 MHz	29.97 dBµV	50 dBµV	-20.03 dB	Pass	Neutral
4	11.616 MHz	24.87 dBµV	50 dBµV	-25.13 dB	Pass	Neutral

**Conducted emissions at the mains power port
according to FCC part 15B**

Project Number: G0M-2304-2024
 Applicant: iesy GmbH
 Model Description: 19" Security Server 1U
 Model: SDoT Server V3B-2 HSM SN SR
 Test Sample ID: 44087
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Neuner
 Test Date: 2023-05-16
 Operating Conditions: ambient temperature: 22 °Celsius
 power input: 2x 120 V / 60 Hz by redundant power supply unit
 LISN: ESH3-Z5 (L)
 Operational Mode: 1
 EUT Configuration: 1
 Applied to Port: AC Mains
 Note 1: -

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Radiation



Test Report No.: G0M-2304-2024-EF0115B-V02

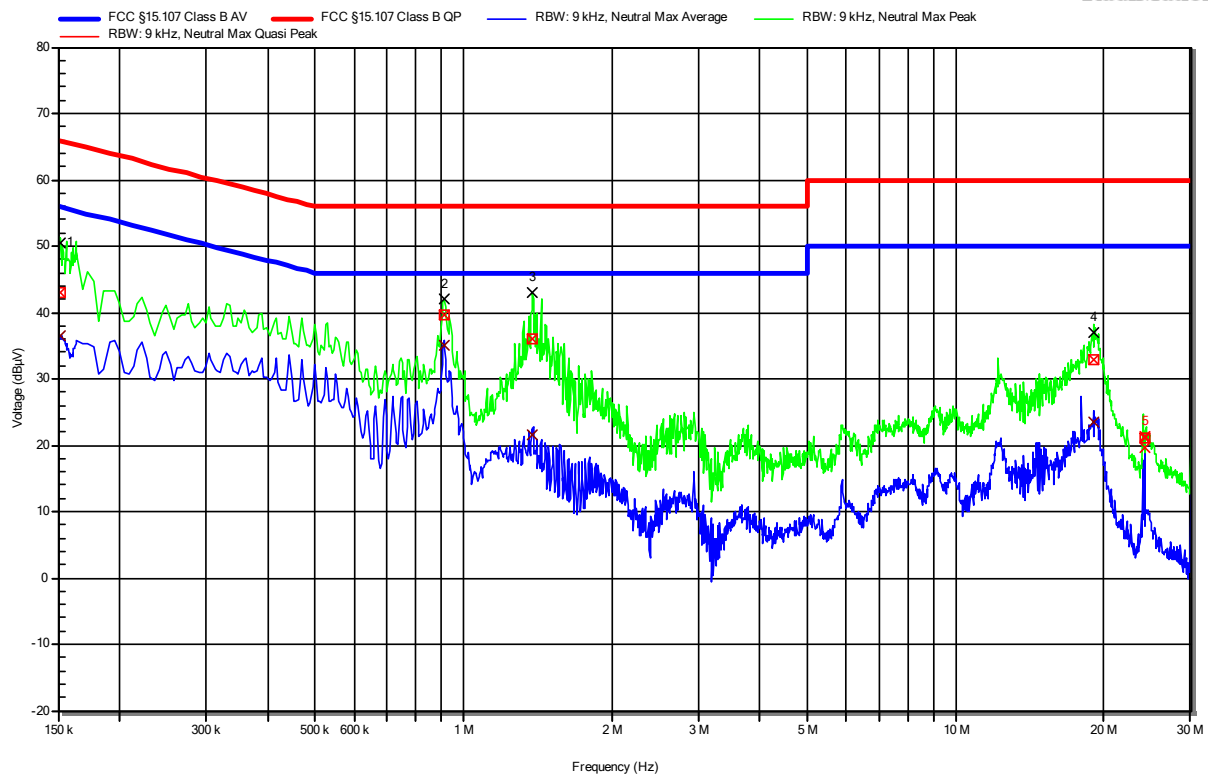
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	LISN
1	152.25 kHz	36.52 dBµV	55.88 dBµV	-19.35 dB	Pass	Line 1
2	911.85 kHz	35.23 dBµV	46 dBµV	-10.77 dB	Pass	Line 1
3	1.379 MHz	21.31 dBµV	46 dBµV	-24.69 dB	Pass	Line 1
4	19.301 MHz	21.78 dBµV	50 dBµV	-28.22 dB	Pass	Line 1

Conducted emissions at the mains power port according to FCC part 15B

Project Number: G0M-2304-2024
 Applicant: iesy GmbH
 Model Description: 19" Security Server 1U
 Model: SDoT Server V3B-2 HSM SN SR
 Test Sample ID: 44087
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Neuner
 Test Date: 2023-05-16
 Operating Conditions: ambient temperature: 22 °Celsius
 power input: 2x 120 V / 60 Hz by redundant power supply unit
 LISN: ESH3-Z5 (N)
 Operational Mode: 1
 EUT Configuration: 1
 Applied to Port: AC Mains
 Note 1: -

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RadiMation



Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	LISN
1	151.8 kHz	42.91 dBµV	65.9 dBµV	-23 dB	Pass	Neutral
2	911.4 kHz	39.56 dBµV	56 dBµV	-16.44 dB	Pass	Neutral
3	1.381 MHz	35.98 dBµV	56 dBµV	-20.02 dB	Pass	Neutral
4	19.094 MHz	32.95 dBµV	60 dBµV	-27.05 dB	Pass	Neutral
5	24.189 MHz	21.16 dBµV	60 dBµV	-38.84 dB	Pass	Neutral

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Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	LISN
1	151.8 kHz	36.59 dBµV	55.9 dBµV	-19.32 dB	Pass	Neutral
2	911.4 kHz	35.1 dBµV	46 dBµV	-10.9 dB	Pass	Neutral
3	1.381 MHz	21.67 dBµV	46 dBµV	-24.33 dB	Pass	Neutral
4	19.094 MHz	23.42 dBµV	50 dBµV	-26.58 dB	Pass	Neutral
5	24.189 MHz	19.75 dBµV	50 dBµV	-30.25 dB	Pass	Neutral

3 Measurement Uncertainty

All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95%, with a coverage factor of 2.

Test Name	Measurement Uncertainty
Conducted emissions at the mains power port	150 kHz to 30 MHz, 3.35dB
Radiated Emission	30 MHz to 200 MHz @ 3m, 5.1dB
	200 MHz to 1G Hz @ 3m, 5.3dB
	>1G Hz to 40 GHz @3m, 5.95dB