

# Test Report

Report Number:

**F241111E3**

Equipment under Test (EUT):

**Wöhler VIS 750 containing  
Wöhler VIS 7 HD-Video-Inspection System**

Applicant:

**Wöhler Technik GmbH**

Manufacturer:

**Wöhler Technik GmbH**



Deutsche  
Akkreditierungsstelle  
D-PL-17186-01-00

## References

- [1] **ANSI C63.4:2014** American National Standard for Methods of Measuring of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.
- [2] **FCC 47 CFR Part 2:** General Rules and Regulations
- [3] **FCC 47 CFR Part 15:** Radio Frequency Devices (Subpart B)
- [4] **ICES-003 Issue 7: (October 2020)** Spectrum Management and Telecommunications. Interference-Causing Equipment Standard. Information Technology Equipment (Including Digital Apparatus) —Limits and Methods of Measurement

## Test Result

The requirements of the tests performed as shown in the overview (clause 4) were fulfilled by the equipment under test. The complete test results are presented in the following.

“Passed” indicates that the equipment under test conforms with the relevant limits of the testing standard without taking any measurement uncertainty into account as stated in clause 10.2.8.2 of ANSI C63.4 (2014). However, the measurement uncertainty is calculated and shown in this test report.

Tested and written  
by:

Signature

Reviewed and  
approved by:

Signature

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The test results herein refer only to the tested sample. PHOENIX TESTLAB GmbH is not responsible for any generalisations or conclusions drawn from these test results concerning further samples. Any modification of the tested samples is prohibited and leads to the invalidity of this test report. Each page necessarily contains the PHOENIX TESTLAB Logo and the TEST REPORT NUMBER.

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# 1 Identification

## 1.1 Applicant

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Country:	Germany
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Phone:	+49 2953-73-100
eMail address:	t.wulf@woehler.de
Applicant represented during the test by the following person:	Mr. Thomas Wulf

## 1.2 Manufacturer

Name:	Wöhler Technik GmbH
Address:	Wöhler-Platz 1, 33181 Bad Wünnenberg
Country:	Germany
Name for contact purposes:	Mr. Thomas WULF
Phone:	+49 2953-73-100
eMail address:	t.wulf@woehler.de
Manufacturer represented during the test by the following person:	Mr. Thomas Wulf

## 1.3 Test Laboratory

The tests were carried out by: **PHOENIX TESTLAB GmbH**  
**Königswinkel 10**  
**32825 Blomberg**  
**Germany**

accredited by Deutsche Akkreditierungsstelle GmbH (DAkkS) according to DIN EN ISO/IEC 17025:2018. The accreditation is only valid for the scope of accreditation listed in the annex of the certificate D-PL-17186-01-00. FCC Test Firm Designation Number DE0004, FCC Test Firm Registration Number 469623, CAB Identifier DE0003 and ISED# 3469A.

## 1.4 EUT (Equipment under Test)

Test object: *	Inspection camera for exhaust (et al.) pipes
Model name: *	Wöhler VIS 750 containing Wöhler VIS 7 HD-Video-Inspection System
Model number: *	NA
Order number: *	NA
FCC ID:	2ANWR-VIS7HD
IC certification number:	-
Contains FCC ID:	2ANWR-VISCM4
Contains IC certification number:	23256-VISCM4
PMN: *	-
HVIN: *	-
FVIN: *	-

	EUT number		
	1	2	3
Serial number: *	5136	-	-
PCB identifier: *	VIS750-MB-B	-	-
Hardware version: *	v2.0	-	-
Software version: *	v4.1.3	-	-

\* Declared by the applicant

One EUT was used for all tests. The EUT is tested in its intended use condition together with the transport case that contains the camera cable and the camera.

Note: PHOENIX TESTLAB GmbH does not take samples. The samples used for tests are provided exclusively by the applicant.

## 1.5 Technical Data of Equipment

General EUT data			
Power supply EUT: *	DC battery powered; AC with AC/DC converter		
Supply voltage EUT battery powered: *	$U_{nom} = 3.7 \text{ V}_{DC}$	$U_{min} = 3 \text{ V}_{DC}$	$U_{max} = 4.2 \text{ V}_{DC}$
Supply voltage EUT AC/DC converter: *	$U_{nom} = 5.0 \text{ V}_{DC}$	$U_{min} = 4.75 \text{ V}_{DC}$	$U_{max} = 5.25 \text{ V}_{DC}$
Temperature range: *	0°C to +40°C		
Lowest / highest internal clock frequency: *	8.9 kHz / 2462 MHz		

\* Declared by the applicant

Ports / Connectors				
Identification	Connector		Length during test	Shielding (Yes / No)
	EUT	Ancillary		
USB-C for power supply	USB 3.1 type C	USB 3.1 type C @ AC power adaptor	1.5 m	Yes
USB-A for data transfer	USB-A	USB-A	-	-

Equipment used for testing	
3-Port USB 3.0 HUB with Gigabit Ethernet Converter* <sup>1</sup>	Anker, model: A7514; S/N:22XWGQQY
Laptop* <sup>1</sup>	Fujitsu Lifebook; S/N: DSDX066555

\*<sup>1</sup> Provided by the applicant

Equipment used for testing	
AC/DC adaptor* <sup>1</sup>	EDAC POWER ELECTRONICS CO., LTD; Model: EA1024BR-050

\*<sup>1</sup> Provided by the applicant

## 1.6 Dates

Date of receipt of test sample:	31.03.2025
Start of test:	09.04.2025
End of test:	24.04.2025

## 2 Operational States

### **Description of function of the EUT:**

The Wöhler VIS 750 consists of the monitor unit VIS 7 HD, a camera head and cable case for inspection of exhaust (et al.) pipes.

The EUT is able to transmit measurement results to an ancillary device.

### **The following states were defined as the operating conditions:**

The AC/DC adaptor which is powering the EUT was supplied by 120 V 60 Hz AC during all tests.

The system was set into normal operation mode where the camera system recorded a video and stores its data into an USB storage medium which is plugged into the Wöhler monitor unit VIS 7 HD.

## 3 Additional Information

All tests were done with an unmodified sample.



## 4 Overview

Conducted emissions    FCC 47 CFR Part 15 section 15.107 (a), (b) [3] ICES-003 Issue 7 section 3.2.1[4]					
Application	Frequency range	Limits	Reference standard	Tested EUT	Status
AC supply line Class B	0.15 to 0.5 MHz	66 to 56 dB(μV) QP*	ANSI C63.4	1	Passed
	0.5 to 5 MHz	56 to 46 dB(μV) AV*			
	5 to 30 MHz	56 dB(μV) QP 46 dB(μV) AV 60 dB(μV) QP 50 dB(μV) AV			
*: Decreases with the logarithm of the frequency					

Radiated emissions FCC 47 CFR Part 15 section 15.109 (a), (b) [3]					
Application	Frequency range	Limits	Reference standard	Tested EUT	Status
Radiated Emission Class B	30 to 88 MHz	40.0 dB(μV/m) QP at 3 m	ANSI C63.4	1	Passed
	88 to 216 MHz	43.5 dB(μV/m) QP at 3 m			
	216 to 960 MHz	46.0 dB(μV/m) QP at 3 m			
	960 to 1000 MHz	54.0 dB(μV/m) QP at 3 m			
	above 1000 MHz	54.0 dB(μV/m) AV at 3 m and 74.0 dB(μV/m) PK at 3 m			

Radiated emissions ICES-003 Issue 7 section 3.2.2 [4]					
Application	Frequency range	Limits	Reference standard	Tested EUT	Status
Radiated Emission Class B	30 to 88 MHz	40.0 dB(μV/m) QP at 3 m	ANSI C63.4	1	Passed
	88 to 216 MHz	43.5 dB(μV/m) QP at 3 m			
	216 to 230 MHz	46.0 dB(μV/m) QP at 3 m			
	230 to 960 MHz	47.0 dB(μV/m) QP at 3 m			
	960 to 1000 MHz	54.0 dB(μV/m) QP at 3 m			
	above 1000 MHz	54 dB(μV/m) AV at 3 m and 74 dB(μV/m) PK at 3 m			

Remark: As declared by the applicant Bluetooth and all WLAN UNII emissions are disabled via software.  
Therefore highest internal clock frequency is 2.462 GHz and the radiated emission measurement must be carried out up to 5<sup>th</sup> of the highest internal clock frequency up to 13 GHz, in this case the measurement was carried out up to 13 GHz.

The EUT was classified by the applicant as CLASS B equipment.

## 5 Results

### 5.1 Test setups

#### 5.1.1 Radiated: 30 MHz to 1 GHz

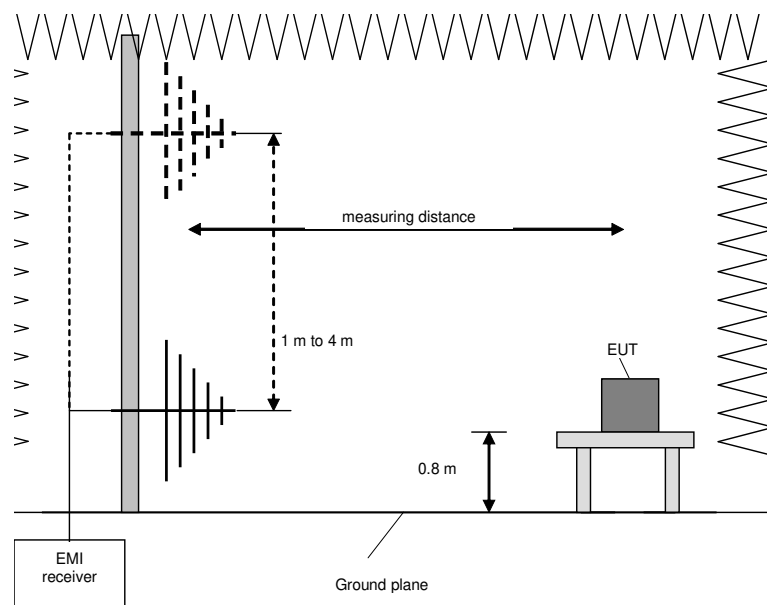
##### 5.1.1.1 Preliminary and final measurement 30 MHz to 1 GHz

The preliminary and final measurements are performed in a semi-anechoic chamber with a metal ground plane at a measuring distance of 3 meters. Table-top devices are set up on a non-conducting support with a size of 1 m by 1.5 m and a height of 80 cm. Floor-standing devices are placed directly on the turntable / ground plane. The setup of the equipment under test is in accordance with [1].

During the tests the EUT is rotated in the range of 0 ° to 360 °, the measuring antenna is set to horizontal and vertical polarization and raised and lowered in the range from 1 m to 4 m to find the maximum level of emissions.

The resolution bandwidth of the EMI receiver is set to the following values:

Test	Frequency range	Step-size	Resolution bandwidth	Measuring time	Detector
Preliminary measurement	30 MHz to 1 GHz	30 kHz	120 kHz	-	Peak Average
Frequency peak search	$\pm 120$ kHz	10 kHz	120 kHz	1 s	Peak
Final measurement	30 MHz to 1 GHz	-	120 kHz	1 s	QuasiPeak



Procedure preliminary measurement:

The following procedure is used:

- 1) Set the measuring antenna to 1 m height.
- 2) Monitor the frequency range at horizontal polarization of the measuring antenna and an EUT / turntable azimuth of 0 °.
- 3) Rotate the EUT by 360° to maximize the detected signals.
- 4) Repeat steps 2 to 3 with the vertical polarization of the measuring antenna.
- 5) Increase the height of the measuring antenna for 0.5 m and repeat steps 2 to 4 until the final height of 4 m is reached.
- 6) The highest values for each frequency are saved by the software, including the measuring antenna height and polarization and the turntable azimuth for that value.

Procedure final measurement:

The following procedure is used:

- 1) Select the highest frequency peaks (lowest margin to the limit) for the final measurement.
- 2) The software determines the exact peak frequencies by doing a partial scan with reduced step size of the pre-scan of the selected peaks.
- 3) If the EUT is portable or ceiling mounted, find the worst-case EUT orientation (x,y,z) for the final test.
- 4) The worst-case measuring antenna height is found via varying the height by +/- 0.5 m from the value obtained in the preliminary measurement while monitoring the emission level.
- 5) The worst-case turntable position is found via varying the turntable azimuth by +/- 30° from the value obtained in the preliminary measurement while monitoring the emission level.
- 6) The final measurement is performed at the worst-case measuring antenna height and the worst-case turntable azimuth.
- 7) Steps 2 to 6 are repeated for each frequency peak selected in step 1.

## 5.1.2 Radiated: 1 GHz to 40 GHz

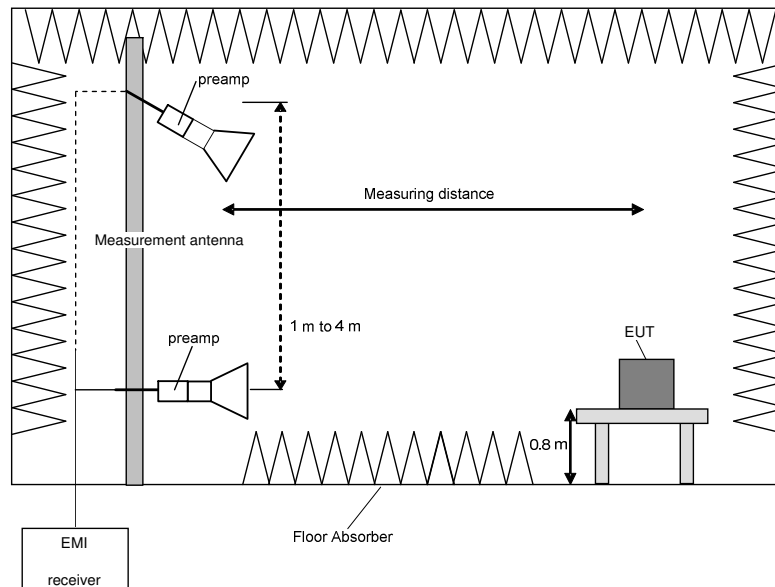
### 5.1.2.1 Preliminary and final measurement 1 to 40 GHz

The preliminary and final measurements are performed in a semi-anechoic chamber at a measuring distance of 3 meters, with floor absorbers between EUT and measuring antenna. Table-top devices are set up on a non-conducting support with a size of 1 m by 1.5 m and a height of 80 cm. Floor-standing devices are placed directly on the turntable / ground plane. The setup of the equipment under test is in accordance with [1].

During the tests the EUT is rotated in the range of 0 ° to 360 °, the measuring antenna is set to horizontal and vertical polarization and raised and lowered in the range from 1 m to 4 m to find the maximum level of emissions. While changing the height, the measuring antenna gets tilted so that it is always aiming at the EUT.

The resolution bandwidth of the EMI receiver is set to the following values:

Test	Frequency range	Step-size	Resolution bandwidth	Measuring time	Detector
Preliminary measurement	1 - 40 GHz	250 kHz	1 MHz	-	Peak Average
Frequency peak search	+ / - 1 MHz	50 kHz	1 MHz	100 ms	Peak
Final measurement	1 - 40 GHz	-	1 MHz	100 ms	Peak Average



#### Procedure preliminary measurement:

The following procedure is used:

- 1) Set the measuring antenna to 1 m height.
- 2) Monitor the frequency range at horizontal polarization of the measuring antenna and an EUT / turntable azimuth of 0 °.
- 3) Rotate the EUT by 360° to maximize the detected signals.
- 4) Repeat steps 2 to 3 with the vertical polarization of the measuring antenna.
- 5) Increase the height of the measuring antenna for 0.5 m and repeat steps 2 to 4 until the final height of 4 m is reached.
- 6) The highest values for each frequency are saved by the software, including the measuring antenna height and polarization and the turntable azimuth for that value.

#### Procedure final measurement:

The following procedure is used:

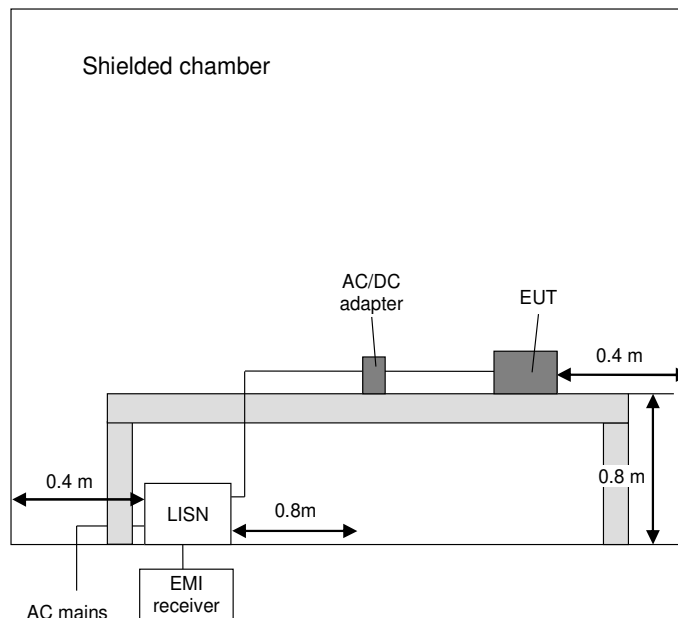
- 1) Select the highest frequency peaks (lowest margin to the limit) for the final measurement.
- 2) The software determines the exact peak frequencies by doing a partial scan with reduced step size of the pre-scan of the selected peaks.
- 3) If the EUT is portable or ceiling mounted, find the worst-case EUT orientation (x,y,z) for the final test.
- 4) The worst-case measuring antenna height is found via varying the height by +/- 0.5 m from the value obtained in the preliminary measurement while monitoring the emission level.
- 5) The worst-case turntable position is found via varying the turntable azimuth by +/- 30° from the value obtained in the preliminary measurement while monitoring the emission level.
- 6) The final measurement is performed at the worst-case measuring antenna height and the worst-case turntable azimuth.
- 7) Steps 2 to 6 are repeated for each frequency peak selected in step 1.

### 5.1.3 Conducted: AC power line

The test is carried out in a shielded chamber. Table-top devices are set up on a non-conducting support with a size of 1 m by 1.5 m and a height of 80 cm above the ground plane. Floor-standing devices are placed directly on the ground plane. In case of DC powered equipment, which is not exclusively powered by a battery, it is connected to the LISN via a suitable AC/DC adaptor. The setup of the equipment under test is in accordance with [1].

The frequency range 150 kHz to 30 MHz is measured with an EMI receiver set to MAX hold mode with Peak and Average detectors and a resolution bandwidth of 9 kHz. A scan is carried out on the phase and neutral line of the AC mains network. If emissions less than 10 dB below the appropriate limit are detected, these emissions are measured with an Average and Quasi-Peak detector on all lines.

Frequency range	Resolution bandwidth	Measuring time
150 kHz to 30 MHz	9 kHz	5 s



## 5.2 Radiated emissions

### 5.2.1 Test setup (Maximum unwanted emissions)

Test setup (Maximum unwanted emissions)			
Used	Setup	See sub-clause	Comment
<input checked="" type="checkbox"/>	Radiated: 30 MHz to 1 GHz / 1 GHz to 40 GHz	5.1.1 / 5.1.2	-

### 5.2.2 Test method (Maximum unwanted emissions)

☒ Test method (radiated) see sub-clause 5.1.1 / 5.1.2 as described herein

### 5.2.3 Test results (Maximum unwanted emissions)

#### 5.2.3.1 Test results (30 MHz – 1 GHz)

Ambient temperature:	23°C
Relative humidity:	25%

Date:	09.04.2025
Tested by:	M. EPPINGER

Position of EUT: For tests for f between 30 MHz to 1 GHz, the EUT was set-up on a table with a height of 80 cm. The distance between EUT and antenna was 3 m.

Cable guide: For detail information of test set-up and the cable guide refer to the pictures in the annex A in the test report.

Test record: Plots for each frequency range are submitted below.

Calculations:

Result [dBμV/m] = Reading [dBμV] + Correction [dB/m]

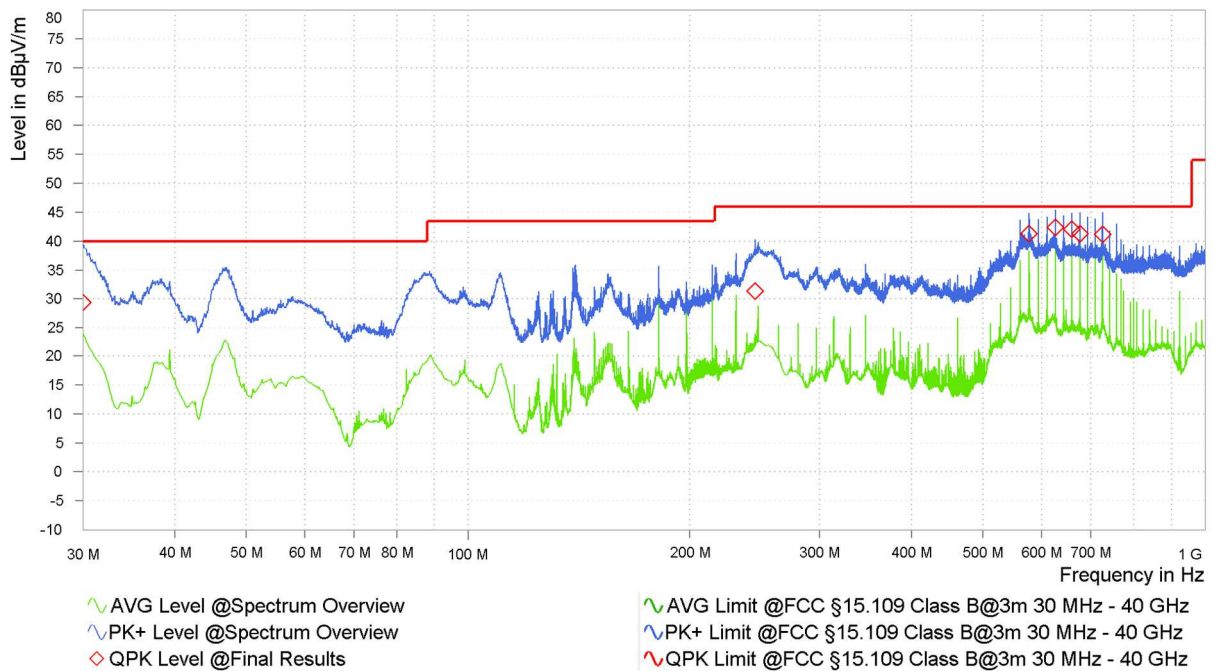
Correction [dB/m] = AF [dB/m] + Cable attenuation [dB] + optional preamp gain [dB]

Margin [dB] = Limit [dBμV/m] - Result [dBμV/m]

The measured points and the limit line in the following diagram refer to the standard measurement of the emitted interference in compliance with the above-mentioned standard. The measured points marked with “◇” are the measured results of the standard subsequent measurement in a semi-anechoic chamber.

## Plot:

Spurious emissions from 30 MHz to 1 GHz:



## Result tables:

Results according to FCC 47 CFR Part 15 section 15.109 (a), (b) [3]:

Frequency [MHz]	Result (QP) [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Correction [dB/m]	Height [cm]	Azimuth [deg]	Pol. (H/V)
30.000	29.40	40.00	10.60	26.66	1.18	65	V
245.430	31.33	46.00	14.67	17.00	1.01	194	H
577.500	41.25	46.00	4.75	25.41	1.60	225	V
627.000	42.40	46.00	3.60	26.00	1.47	148	V
660.000	41.99	46.00	4.01	26.73	1.50	232	V
676.500	41.33	46.00	4.67	26.71	1.14	245	H
726.000	41.20	46.00	4.80	27.59	1.04	247	H

Results according to ICES-003 Issue 7 section 3.2.2 [4]:

Frequency [MHz]	Result (QP) [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Correction [dB/m]	Height [cm]	Azimuth [deg]	Pol. (H/V)
30.000	29.40	40.00	10.60	26.66	1.18	65	V
245.430	31.33	47.00	14.67	17.00	1.01	194	H
577.500	41.25	47.00	4.75	25.41	1.60	225	V
627.000	42.40	47.00	3.60	26.00	1.47	148	V
660.000	41.99	47.00	4.01	26.73	1.50	232	V
676.500	41.33	47.00	4.67	26.71	1.14	245	H
726.000	41.20	47.00	4.80	27.59	1.04	247	H

Test result: Passed

Test equipment (please refer to chapter 7 for details)
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### 5.2.3.2 Test results (radiated 1 to 40 GHz)

Ambient temperature:	23°C
Relative humidity:	25%

Date:	09.04.2025
Tested by:	M. EPPINGER

Position of EUT: For tests for f between 1 GHz and the 5<sup>th</sup> harmonic, the EUT was set-up on a table with a height of 80 cm. The distance between EUT and antenna was 3 m.

Cable guide: For detail information of test set-up and the cable guide refer to the pictures in the annex A in the test report.

Test record: Plots for each frequency range are submitted below.

Calculation:

Max Peak [dBμV/m] = Reading [dBμV] + Correction [dB/m]

Average [dBμV/m] = Reading [dBμV] + Correction [dB/m]

Correction [dB/m] = AF [dB/m] + Cable attenuation [dB] + optional preamp gain [dB] + DCCF\* [dB]  
\* (if applicable – only for Average values, that are fundamental related)

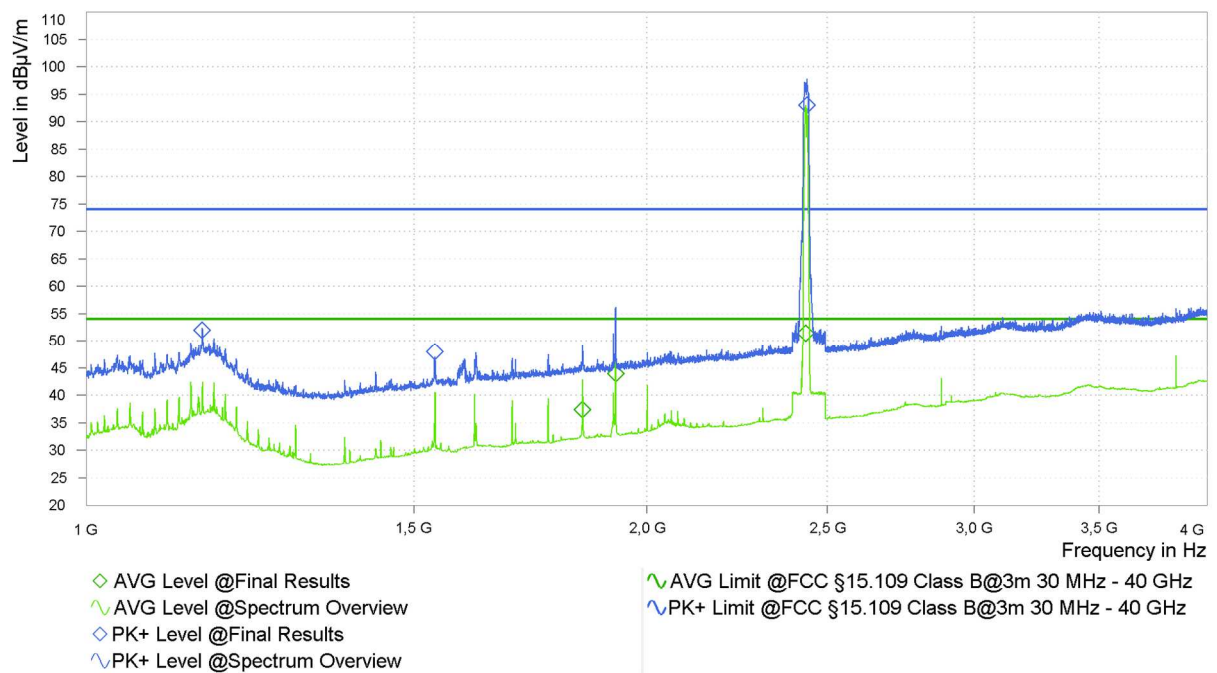
Margin [dB] = Limit [dBμV/m] – Max Peak | Average [dBμV/m]

The curves in the diagram only represent the maximum measured value for each frequency point of all preliminary measurements, which were carried out with various EUT and antenna positions.

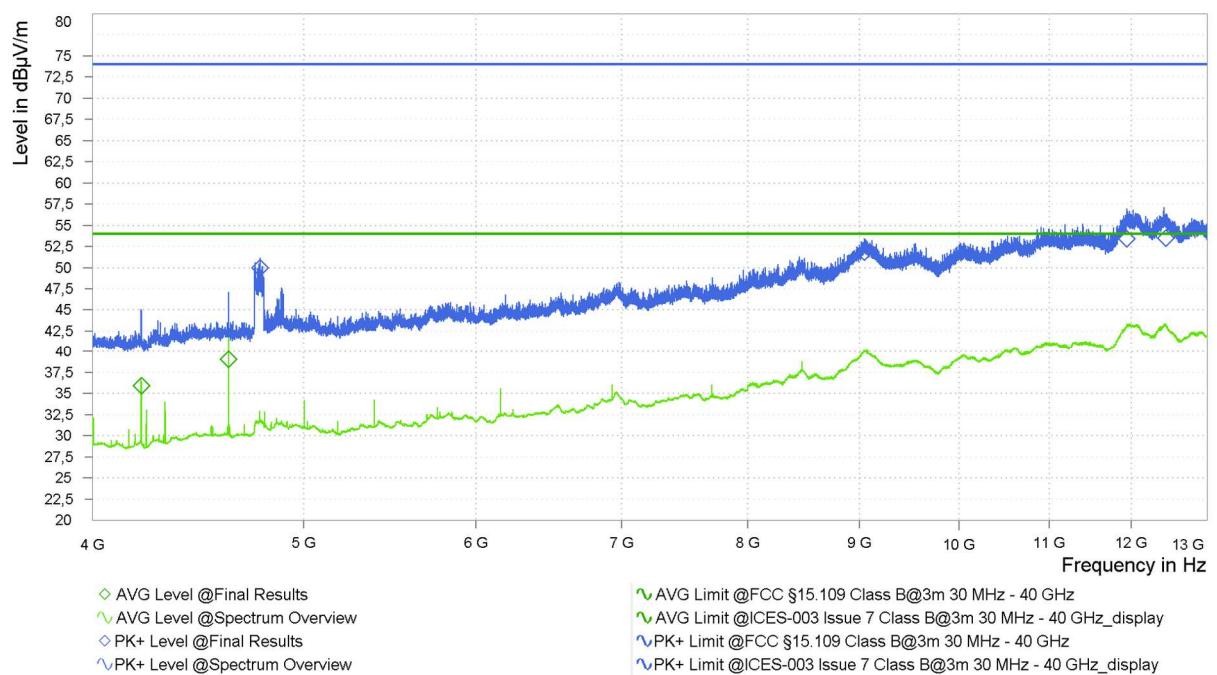
The top measured curve represents the peak measurement. The measured points marked with "◆" are frequency points for the final peak detector measurement. These values are indicated in the following table. The bottom measured curve represents the average measurement. The measured points marked with "◇" are frequency points for the final average detector measurement.

## Plots:

Spurious emissions from 1 GHz to 4 GHz:



Spurious emissions from 4 GHz to 13 GHz:



**Result table:**

Frequency [MHz]	MaxPeak [dB(μV/m)]	Average [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Height [m]	Pol [H/V]	Azimuth [deg]	Corr. [dB/m]
1,154.750	51.94	-	74.00	22.06	1.52	V	236	26.50
1,539.000	47.92	-	74.00	26.08	1.28	H	31	29.61
1,848.000	-	37.32	54.00	16.68	2.49	V	289	31.24
1,925.000	-	43.89	54.00	10.11	1.55	V	21	31.61
2,435.250	-	51.34	54.00	2.66	1.28	H	263	34.58
2,439.750	92.99	-	Fund.*		2.36	H	225	34.61
4,212.250	-	35.90	54.00	18.10	1.57	H	129	5.85
4,620.000	-	39.08	54.00	14.92	1.61	V	92	7.37
4,777.500	49.97	-	74.00	24.03	2.53	V	176	8.25
9,048.750	51.84	-	74.00	22.16	2.65	H	79	17.81
11,946.750	53.42	-	74.00	20.58	1.40	V	149	21.41
12,451.250	53.46	-	74.00	20.54	1.05	H	361	21.81

Remark: These are wanted WLAN emission from the EUT and will therefore be omitted from the final evaluation.

Test result: Passed

Test equipment (please refer to chapter 7 for details)
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## 5.3 AC power-line conducted emissions

### 5.3.1 Test setup (Conducted emissions on power supply lines)

Test setup (Conducted emissions on power supply lines)			
Used	Setup	See sub-clause	Comment
<input checked="" type="checkbox"/>	Conducted: AC power line	5.1.3	-C
<input type="checkbox"/>	Not applicable, because ...	-	-

### 5.3.2 Test method (Conducted emissions on power supply lines)

Test setup (Conducted emissions on power supply lines)				
Used	Clause [1]	Name of method	Sub-clause	Comment
<input checked="" type="checkbox"/>	7.3; 11.5; 11.8	Tabletop equipment testing	5.1.3	-
<input type="checkbox"/>	7.3; 11.6; 11.8	Floor-standing equipment testing	-	-

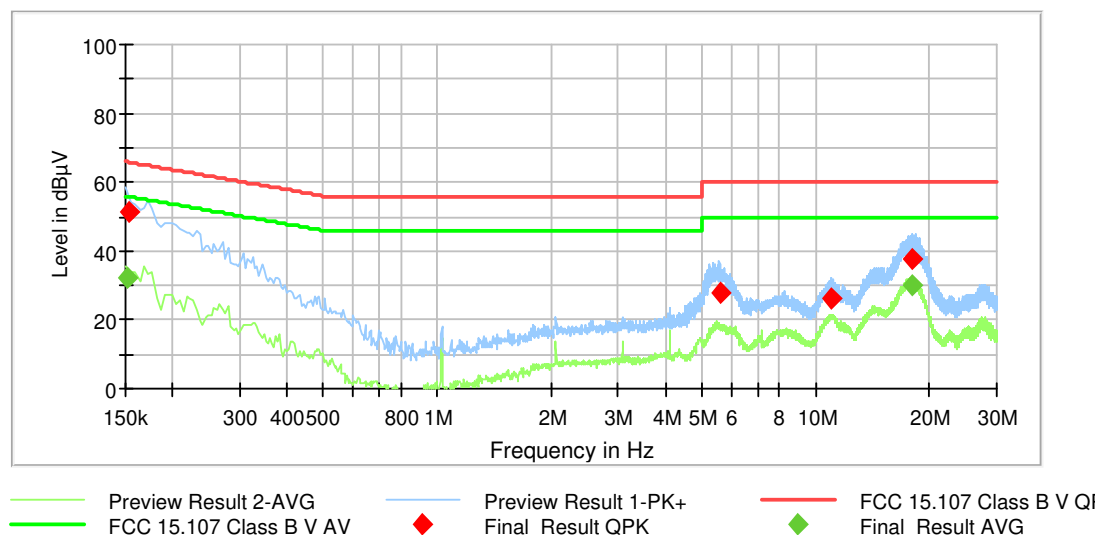
The AC power adaptor provided by the applicant was used for the tests:  
EDAC POWER ELECTRONICS CO., LTD; Model: EA1024BR-050  
The power adaptor itself was supplied by 120V<sub>AC</sub> 60Hz.

### 5.3.3 Test results (Conducted emissions on power supply lines)

Ambient temperature:	21.7 °C
Relative humidity:	50 %

Date:	25.04.2025
Tested by:	M. EPPINGER

The curves in the diagrams below only represent for each frequency point the maximum measured value of all preliminary measurements which were made for each power supply line. The top measured curve represents the peak measurement and the bottom measured curve the average measurement. The quasi-peak measured points are marked by ◆ and the average measured points by ◆.



Frequency [MHz]	QuasiPeak [dB(μV)]	Average [dB(μV)]	Limit [dB(μV)]	Margin [dB]	Line	PE	Corr. [dB]
0.151800	-	32.29	55.90	23.61	L1	GND	9.8
0.152750	51.47	-	65.85	14.38	N	GND	9.8
5.569800	28.07	-	60.00	31.93	L1	GND	10.3
10.979750	26.17	-	60.00	33.83	N	GND	10.7
17.938500	-	30.24	50.00	19.76	N	GND	10.9
17.979900	37.70	-	60.00	22.30	N	GND	10.9

Test result: Passed

Test equipment (please refer to chapter 7 for details)

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## 6 Measurement Uncertainties

Conducted measurements		
Measurement method	Standard used for calculating measurement uncertainty	Expanded measurement uncertainty (95 %) $U_{lab}$
Conducted emissions from 150 kHz to 30 MHz with LISN	CISPR 16-4-2	2.8 dB

Radiated measurements		
Radiated field strength M276		
R&S HL562E @ 3 m 30 MHz – 1 GHz	CISPR 16-4-2	4.8 dB
R&S HL050 @ 3 m	-	
1 – 6 GHz	CISPR 16-4-2	5.1 dB
6 – 18 GHz	CISPR 16-4-2	5.4 dB
Flann Standard Gain Horns 18 – 40 GHz	-	5.9 dB

## 7 Test Equipment used for Tests

No.	Test equipment	Type	Manufacturer	Serial No.	PM. No.	Cal. Date	Cal Due
1	Low Noise Amplifier 100 MHz - 18 GHz	LNA-30- 00101800-25- 10P	Narda-Miteq	2110917	482967	20.02.2024	02.2026
2	Log.-Per. antenna	HL050	Rohde & Schwarz	100908	482977	22.09.2022	09.2025
3	EMC test software	Elektra V5.05.00	Rohde&Schwarz		483755	Calibration not necessary	
4	RF Switch Matrix	OSP220	Rohde & Schwarz	101391	482976	Calibration not necessary	
5	Turntable	TT3.0-3t	Maturo	825/2612/.01	483224	Calibration not necessary	
6	Antennasupport	BAM 4.5-P-10kg	Maturo	222/2612.01	483225	Calibration not necessary	
7	Controller	NCD	Maturo	474/2612.01	483226	Calibration not necessary	
8	Semi Anechoic Chamber M276	SAC5-2	Albatross Projects	C62128-A540- A138-10-0006	483227	Calibration not necessary	
9	EMI Testreceiver	ESW44	Rohde & Schwarz	101828	482979	21.02.2024	02.2026
10	Attenuator 6 dB	WA2-6	Weinschel	8254	410119	Calibration not necessary	
11	Ultralog Antenna	HL562E	Rohde & Schwarz	101079	482978	24.04.2024	04.2027
12	LISN	NSLK8128	Schwarzbeck	8128155	480058	28.02.2024	02.2026
13	AC power supply	AC6803A AC Quelle 2000VA	Keysight	JPVJ002509	482350	Calibration not necessary	
14	Software	EMC32	Rohde & Schwarz	100061	481022	Calibration not necessary	
15	Shielded chamber M4	B83117-S1-X158	Siemens	190075	480088	Calibration not necessary	
16	EMI Receiver / Spectrum Analyser	ESIB 26	Rohde & Schwarz	100292	481182	22.02.2024	02.2026
17	Transient Filter Limiter	CFL 9206A	Teseq GmbH	38268	481982	28.03.2024	03.2026

## 8 Test site Verification

Test equipment	PM. No.	Frequency range	Type of validation	According to	Val. Date	Val Due
Shielded chamber M4	480088	9 kHz – 30 MHz	GND-Plane	ANSI C63.4-2014	08.11.2022	07.11.2025
Semi anechoic chamber M276	483227	30 – 1000 MHz	NSA	ANSI C63.4-2014 ANSI C63.4a-2017	01.03.2023	28.02.2026
Semi anechoic chamber M276	483227	1 -18 GHz	SVSWR	CISPR 16-1-4 + Cor1:2010 + A1:2012 +A2:2017	28.02.2023	27.02.2026

## 9 Report History

Report Number	Date	Comment
F241111E3	25.04.2025	Initial Test Report
-	-	-
-	-	-



## 10 List of Annexes

Annex A	Test Setup Photos	4 pages
Annex B	EUT External Photos	5 pages
Annex C	EUT Internal Photos	14 pages

----- end of test report -----