

# Deutsche Akkreditierungsstelle

## Annex to the Partial Accreditation Certificate D-PL-14629-01-06 according to DIN EN ISO/IEC 17025:2018

**Valid from:** 02.04.2024

**Date of issue:** 02.04.2024

This annex is a part of the accreditation certificate D-PL-14629-01-00.

Holder of partial accreditation certificate:

**Eurofins GfA Lab Service GmbH  
Neuländer Kamp 1a, 21079 Hamburg**

with the location

**Eurofins GfA Lab Service GmbH  
Neuländer Gewerbepark 4, 21079 Hamburg**

The testing laboratory meets the requirements of DIN EN ISO/IEC 17025:2018 to carry out the conformity assessment activities listed in this annex. The testing laboratory meets additional legal and normative requirements, if applicable, including those in relevant sectoral schemes, provided that these are explicitly confirmed below.

The management system requirements of DIN EN ISO/IEC 17025 are written in the language relevant to the operations of testing laboratories and they conform to the principles of DIN EN ISO 9001.

Tests in the fields:

**Determination of organic residues and contaminants using GC/MS, -MS/MS, -HRMS and LC-MS/MS in air/emissions, ambient air and dust, including sample preparation;  
Immission protection module**

*This certificate annex is only valid together with the written accreditation certificate and reflects the status as indicated by the date of issue. The current status of any given scope of accreditation can be found in the directory of accredited bodies maintained by Deutsche Akkreditierungsstelle GmbH at <https://www.dakks.de>.*

Abbreviations used: see last page

**Page 1 of 8**

**This document is a translation. The definitive version is the original German annex to the accreditation certificate.**

**Annex to the Partial Accreditation Certificate D-PL-14629-01-06**

**Within the given testing field marked with \*\* the testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, the modification, development and refinement of testing methods. The listed testing methods are exemplary.**

**Within the scope of accreditation marked with \*\*\* the testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, to use the standards or equivalent testing methods listed here with different issue dates.**

**The testing laboratory maintains a current list of all testing procedures within the flexible scope of accreditation.**

**1 Determination of organic pollutants using isotope dilution analysis and gas chromatography with mass spectrometric detection (MS, MS/MS and HRMS) in air/emission, ambient air and dust \*\***

DIN ISO 12884 2000-12	Ambient air - Determination of total (gas and particle phase) polycyclic aromatic hydrocarbons - Collection on sorbent-backed filters with gas chromatographic/mass spectrometric analysis (restriction: <i>no sampling</i> )
DIN ISO 16000-13 2010-03	Indoor air - Part 13: Determination of total (gas and particle-phase) polychlorinated dioxin-like biphenyls (PCBs) and polychlorinated dibenzo-p-dioxins/dibenzofurans (PCDDs/PCDFs) - Collection on sorbent-backed filters (restriction: <i>no sampling</i> )
DIN ISO 16000-14 2012-03	Indoor air - Part 14: Determination of total (gas and particle-phase) polychlorinated dioxin-like biphenyls (PCBs) and polychlorinated dibenzo-p-dioxins/dibenzofurans (PCDDs/PCDFs) - Extraction, clean-up and analysis by high-resolution gas chromatography and mass spectrometry (restriction: <i>no sampling</i> )
DIN EN 15549 2008-06	Air quality - Standard method for the measurement of the concentration of benzo[a]pyrene in ambient air (restriction: <i>no sampling</i> )
VDI 3498 Blatt 2 2002-07	Ambient air measurement - Indoor air measurement - Measurement of polychlorinated dibenzo-p-dioxins and dibenzofurans; Method using small filters (restriction: <i>no sampling</i> )

Valid from: 02.04.2024

Date of issue: 02.04.2024

**Annex to the Partial Accreditation Certificate D-PL-14629-01-06**

VDI 3499 Blatt 1 2003-07	Emission measurement - Determination of polychlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans (PCDFs) - Dilution method; Example of application of DIN EN 1948 for the concentration range < 0,1 ng I-TEQ/m <sup>3</sup> and supplement to DIN EN 1948 for the concentration range > 0,1 ng I-TEQ/m <sup>3</sup> ; Determination in filter dust, ash and slag (restriction: <i>no sampling</i> )
BIA 6880 1993-06	BIA-testing method for the determination of concentration of polychlorinated dibenzofuranes and dibenzodioxins (PCDF/PCDD) and polybrominated dibenzofuranes and dibenzo-p-dioxins (PBDF/PBDD) at working areas (restriction: <i>no sampling</i> )
GLS DF 140 2022-11	Determination of polychlorinated dibenzodioxins (PCDD), polychlorinated dibenzofuranes (PCDF) and polychlorinated biphenyls (PCB) in air samples by gas chromatography with mass spectrometric detection
GLS DF 150 2022-11	Determination of polybrominated dibenzodioxins (PBDD) and polybrominated dibenzofuranes (PBDF) in air samples by gas chromatography with mass spectrometric detection
GLS OC 110 2023-09	Determination of polychlorinated benzenes (PCBz) in solids, emissions, immissions and air samples by gas chromatography with mass spectrometric detection
GLS OC 200 2023-02	Determination of polybrominated diphenyl ether (PBDE) and polybrominated biphenyles (PBB) in diverse sample matrices by gas chromatography with mass spectrometric detection (Scope here: <i>air</i> )
GLS OC 230 2023-09	Determination of the mass concentration of short and middle chain C <sub>10</sub> -C <sub>17</sub> Chlorparaffines (SCCP, MCCP) in diverse sample matrices by GC-MS (Scope here: <i>air</i> )

Valid from: 02.04.2024  
Date of issue: 02.04.2024

**Annex to the Partial Accreditation Certificate D-PL-14629-01-06**

GLS OC 300  
2023-09  
Determination of polycyclic aromatic hydrocarbons (PAH) in diverse sample matrices by gas chromatography with mass spectrometric detection  
(Scope here: *air-samples and filter dust*)

GLS OC 720  
2023-09  
Determination of alkyl phenoles in diverse sample matrices by gas chromatography with mass spectrometric detection  
(Scope here: *air-samples*)

**2 Determination of organic pollutants using isotope dilution analysis and high performance liquid chromatography with mass spectrometric detection (LC-MS/MS) in air/emission, ambient air and dust \*\***

GLS OC 260  
2019-01  
Determination of the mass concentration of hexabromocyclododecane (HBCD) in diverse sample matrices by LC-MS/MS  
(Scope here: *air/emission, ambient air and dust*)

GLS OC 400  
2019-01  
Determination of per- and polyfluorinated compounds (PFAS) in diverse sample matrices by LC-MS/MS  
(Scope here: *air*)

**3 Sample preparation \*\*\***

DIN 19747  
2009-07  
Investigation of solids-pretreatment, preparation and processing of samples for chemical, biological and physical investigations

**4 Test method for the pollution control module and annex A2 of VDI 4220**

Test range / identification	Group I.1: Determination of emissions				
	Field of activity Sa: Special sampling of substances that require special effort / activities during sampling or analysis				
Component	Standard / Directive / technical rule		SRM	QM-document	Comment Site
	Title	Designation			
PCDD/PCDF	Stationary source emissions - Determination of the mass concentration of PCDDs/PCDFs and dioxin-like PCBs - Part 2: Extraction and clean-up of PCDDs/PCDFs Part 3: Identification and quantification of PCDDs/PCDFs	DIN EN 1948 Part 2-3 2006-06	<input checked="" type="checkbox"/>	GLS DF 140	
PCDD/PCDF	Emission measurement - Determination of polychlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans (PCDFs) - Dilution method; Example of application of DIN EN 1948 for the concentration range < 0,1 ng I-TEQ/m <sup>3</sup> and supplement to DIN EN 1948 for the concentration range > 0,1 ng I-TEQ/m <sup>3</sup> ; Determination in filter dust, ash and slag	VDI 3499 sheet 1 2003-07		GLS DF 140	
PCDD/PCDF	Emission measurement - Determination of polychlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans (PCDFs) - Filter/condenser method; Example of application of DIN EN 1948 for the concentration range < 0,1 ng I-TEQ/m <sup>3</sup> and supplement to DIN EN 1948 for the concentration range > 0,1 ng I-TEQ/m <sup>3</sup>	VDI 3499 sheet 2 2004-02		GLS DF 140	
PCDD/PCDF	Emission measurement - Determination of polychlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans (PCDFs) - Cooled probe method; Example of application of DIN EN 1948 for the concentration range < 0,1 ng I-TEQ/m <sup>3</sup> and supplement to DIN EN 1948 for the concentration range > 0,1 ng I-TEQ/m <sup>3</sup>	VDI 3499 sheet 3 2004-02		GLS DF 140	

Valid from: 02.04.2024

Date of issue: 02.04.2024

Page 5 of 8

This document is a translation. The definitive version is the original German annex to the accreditation certificate.

Annex to the Partial Accreditation Certificate D-PL-14629-01-06

Test range / identification	Group I.1: Determination of emissions				
	Field of activity Sa: Special sampling of substances that require special effort / activities during sampling or analysis				
Component	Standard / Directive / technical rule		SRM	QM-document	Comment Site
	Title	Designation			
dl-PCB	Stationary source emissions - Determination of the mass concentration of PCDDs/PCDFs and dioxin-like PCBs - Part 4: Sampling and analysis of dioxin-like PCBs; German version EN 1948-4:2010	DIN EN 1948-4 2014-03		GLS DF 140	
PCDD/PCDF and PCB	Stationary source emissions - Determination of the mass concentration of PCDDs/PCDFs and dioxin-like PCBs - Part 5: Long-term sampling of PCDDs/PCDFs and PCBs	DIN CEN/TS 1948-5 2015-06		GLS DF 140	
PAH	Stationary source emissions - Determination of gas and particle-phase polycyclic aromatic hydrocarbons - Part 2: Sample preparation, clean-up and determination	ISO 11338-2 2003-06		GLS OC 300	
PAH	Stationary source emissions - Determination of polycyclic aromatic hydrocarbons (PAH) - GC/MC method	VDI 3874 2006-12		GLS OC 300	
PCBz	Ambient air measurement - Indoor air measurement - Measurement of persistent organic pollutants (POPs) with GC/HRMS	VDI 2464 sheet 4 2015-06		GLS OC 110	

Testing area / Identifier	Group IV: Determination of ambient air				
	Task area Sa: Special analysis of substances which require specific conditions in sampling or analysis				
Component	Standard / Directive / technical rule		SRM	QM-document	
	Title	Designation			
PCDD/PCDF	Ambient air measurement - Indoor air measurement - Measurement of polychlorinated dibenzo-p-dioxins and dibenzofurans; Method using large filters	VDI 3498 sheet 1 2002-07	<input checked="" type="checkbox"/>	GLS DF 140	
PCDD/PCDF	Ambient air measurement - Indoor air measurement - Measurement of polychlorinated dibenzo-p-dioxins and dibenzofurans; Method using small filters	VDI 3498 sheet 2 2002-07	<input checked="" type="checkbox"/>	GLS DF 140	

Valid from: 02.04.2024

Date of issue: 02.04.2024

Page 6 of 8

This document is a translation. The definitive version is the original German annex to the accreditation certificate.

**Annex to the Partial Accreditation Certificate D-PL-14629-01-06**

Testing area / Identifier	Group IV: Determination of ambient air			
	Task area Sa: Special analysis of substances which require specific conditions in sampling or analysis			
Component	Standard / Directive / technical rule		SRM	QM-document
	Title	Designation		
PCDD/PCDF	Ambient air measurement - Deposition measurement of low volatile organic compounds - Determination of PCDD/F deposition; Bergerhoff sampling device and GC/HRMS analysis	VDI 2090 sheet 1 2001-01	GLS DF 140	
PCDD/PCDF	Ambient air measurement - Deposition measurement of low volatile organic compounds - Determination of PCDD/F-deposition; Funnel adsorber sampling and GC/HRMS-analysis	VDI 2090 sheet 2 2002-12	GLS DF 140	
PCDD/PCDF	Stationary source emissions - Determination of the mass concentration of PCDDs/PCDFs and dioxin-like PCBs - Part 2: Extraction and clean-up of PCDDs/PCDFs Part 3: Identification and quantification of PCDDs/PCDFs	DIN EN 1948 Part 2-3 2006-06	GLS DF 140	
PCB	Ambient air measurement - Indoor air measurement - Measurement of polychlorinated biphenyls (PCBs) - GC/MS method for PCB 28, 52, 101,138, 153, 180	VDI 2464 sheet 1 2009-09	GLS DF 140	
PCB	Ambient air measurement - Indoor air measurement - Measurement of polychlorinated biphenyls (PCBs) - HR-GC/HR-MS method for coplanar PCBs	VDI 2464 sheet 2 2009-09	GLS DF 140	
PAH	Ambient air - Determination of total (gas and particle phase) polycyclic aromatic hydrocarbons - Collection on sorbent-backed filters with gas chromatographic/mass spectrometric analysis	DIN ISO 12884 2000-12	GLS OC 300	
Benzo[a]pyrene	Air quality - Standard method for the measurement of the concentration of benzo[a]pyrene in ambient air	DIN EN 15549 2008-06	GLS OC 300	
PCBz	Ambient air measurement - Indoor air measurement - Measurement of persistent organic pollutants (POPs) with GC/HRMS	VDI 2464 sheet 4 2019-07	GLS OC 110	

Valid from: 02.04.2024

Date of issue: 02.04.2024

Page 7 of 8

This document is a translation. The definitive version is the original German annex to the accreditation certificate.

**Abbreviations used:**

BIA	methods published by the Federal Institut for Health and Safety at Work (IFA)
CEN	Comité Européen de Normalisation
DIN	Deutsches Institut für Normung e. V.
EN	European Standard
GLS DF xxx	in-house-methode of Eurofins GfA Lab Service GmbH from PCDD/F-Analytics
GLS OC xxx	in-house-method of Eurofins GfA Lab Service GmbH from Organic Chemistry
IEC	International Electrotechnical Commission
ISO	International Organization for Standardization
SRM	Standard reference method
VDI	Verein Deutscher Ingenieure (Association of German Engineers)