

ERA (A WATERS COMPANY)

ERA

**16341 TABLE MOUNTAIN PARKWAY, GOLDEN, COLORADO, 80403,
UNITED STATES OF AMERICA.**

*Has been accredited as a Reference Materials Producer under the NMX-EC17034-
IMNC-2018 / ISO 17034:2016, General requirements for the
competence of reference materials producers for*

A. Chemical Composition

B. Physical Properties

C. Engineering properties

Accreditation Number: PMR-003

Accreditation Date: 2018/01/05

Update Date: 2019/08/13

Process: Update of the Accreditation Standard

Reference Number: 18MR0016

**The scope for the production of certified reference materials is in accordance with Annex
A of this document:**

Notes for the interpretation of the Annex A.

- I. The categories and subcategory are defined according to Annex 1 of the present application.*
- II. Value attributed to a quantity that represents a physical, chemical or biological property of a reference material.*
- III. Reference material that is characteristic of a real sample. Example: Soil, drinking water, metal alloys, blood. Matrices of reference materials can be obtained directly from biological, environmental or industrial sources.*
- IV. Procedure or technique by which the values of the property of a reference value are determined.*
- V. The interval within which the property is expected to be found in the reference material to be produced.*



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VI. The first value of the expanded uncertainty corresponds to the first value of the interval of the reference material and in the same way to the second value of the expanded uncertainty corresponds to the second value of the interval of the reference material.

VII. This column will include information on the presentation of the reference material.

By the entidad mexicana de acreditación, a.c.

Maria Isabel Lopez Martinez
General Director

c.c.File

ANEXO A
Alcance de acreditación para la producción de materiales de referencia certificados

Acreditación: PMR-006

I			II	III	IV	V			VI			VI
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presenta tion**
						from	to	Units	from	to	Units	
A. Chemical Composition	A2. Inorganics Reference Materials	A2.6 Pure chemical substances	Aluminum	water	ICP/ICP-MS	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2. Inorganics Reference Materials	A2.6 Pure chemical substances	Antimony	water	ICP/ICP-MS	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2. Inorganics Reference Materials	A2.6 Pure chemical substances	Arsenic	water	ICP/ICP-MS	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2. Inorganics Reference Materials	A2.6 Pure chemical substances	Barium	water	ICP/ICP-MS	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2. Inorganics Reference Materials	A2.6 Pure chemical substances	Beryllium	water	ICP/ICP-MS	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2. Inorganics Reference Materials	A2.6 Pure chemical substances	Bismuth	water	ICP/ICP-MS	1	10000	mg/L	0.2	2	%	

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I			II	III	IV	V			VI			VI
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation**
						from	to	Units	from	to	Units	
A. Chemical Composition	A2. Inorganics Reference Materials	A2.6 Pure chemical substances	Boron	water	ICP/ICP-MS	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2. Inorganics Reference Materials	A2.6 Pure chemical substances	Cadmium	water	ICP/ICP-MS	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2. Inorganics Reference Materials	A2.6 Pure chemical substances	Calcium	water	ICP/ICP-MS	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2. Inorganics Reference Materials	A2.6 Pure chemical substances	Chromium VI	water	ICP/ICP-MS	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2. Inorganics Reference Materials	A2.6 Pure chemical substances	Chromium, total	water	ICP/ICP-MS	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2. Inorganics Reference Materials	A2.6 Pure chemical substances	Cobalt	water	ICP/ICP-MS	1	10000	mg/L	0.2	2	%	

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Category	I		II	III	IV	V			VI			VI
	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation**
						from	to	Units	from	to	Units	
A. Chemical Composition	A2. Inorganics Reference Materials	A2.6 Pure chemical substances	Copper	water	ICP/ICP-MS	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2. Inorganics Reference Materials	A2.6 Pure chemical substances	Iron	water	ICP/ICP-MS	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2. Inorganics Reference Materials	A2.6 Pure chemical substances	Lead	water	ICP/ICP-MS	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2. Inorganics Reference Materials	A2.6 Pure chemical substances	Lithium	water	ICP/ICP-MS	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2. Inorganics Reference Materials	A2.6 Pure chemical substances	Magnesium	water	ICP/ICP-MS	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2. Inorganics Reference Materials	A2.6 Pure chemical substances	Manganese	water	ICP/ICP-MS	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2. Inorganics Reference Materials	A2.6 Pure chemical substances	Mercury	water	ICP/ICP-MS	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2. Inorganics Reference Materials	A2.6 Pure chemical substances	Molybdenum	water	ICP/ICP-MS	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2. Inorganics Reference Materials	A2.6 Pure chemical substances	Nickel	water	ICP/ICP-MS	1	10000	mg/L	0.2	2	%	

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	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			
						from	to	Units	from	to	Units	
A. Chemical Composition	A2.Inorganics Reference Materials	A2.6 Pure chemical sustancias	Phosphorus	water	ICP/ICP-MS	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2.Inorganics Reference Materials	A2.6 Pure chemical sustancias	Platinum	water	ICP/ICP-MS	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2.Inorganics Reference Materials	A2.6 Pure chemical sustancias	Potassium	water	ICP/ICP-MS	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2.Inorganics Reference Materials	A2.6 Pure chemical sustancias	Selenium	water	ICP/ICP-MS	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2.Inorganics Reference Materials	A2.6 Pure chemical sustancias	Silica	water	ICP/ICP-MS	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2.Inorganics Reference Materials	A2.6 Pure chemical sustancias	Silicon	water	ICP/ICP-MS	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2.Inorganics Reference Materials	A2.6 Pure chemical sustancias	Silver	water	ICP/ICP-MS	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2.Inorganics Reference Materials	A2.6 Pure chemical sustancias	Sodium	water	ICP/ICP-MS	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2.Inorganics Reference Materials	A2.6 Pure chemical sustancias	Strontium	water	ICP/ICP-MS	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2.Inorganics Reference Materials	A2.6 Pure chemical sustancia	Thallium	water	ICP/ICP-MS	1	10000	mg/L	0.2	2	%	

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Category	I		II	III	IV	V			VI			VI
	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation**
						from	to	Units	from	to	Units	
A. Chemical Composition	A2.Inorganics Reference Materials	A2.6 Pure chemical sustancias	Tin	water	ICP/ICP-MS	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2.Inorganics Reference Materials	A2.6 Pure chemical sustancias	Titanium	water	ICP/ICP-MS	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2.Inorganics Reference Materials	A2.6 Pure chemical sustancias	Vanadium	water	ICP/ICP-MS	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2.Inorganics Reference Materials	A2.6 Pure chemical sustancias	Yttrium	water	ICP/ICP-MS	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2.Inorganics Reference Materials	A2.6 Pure chemical sustancias	Zinc	water	ICP/ICP-MS	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2.Inorganics Reference Materials	A2.6 Pure chemical sustancias	Thorium	water	ICP/ICP-MS	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2.Inorganics Reference Materials	A2.6 Pure chemical sustancias	Uranium	water	ICP/ICP-MS	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2.Inorganics Reference Materials	A2.6 Pure chemical sustancias	Yttrium	water	ICP/ICP-MS	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2.Inorganics Reference Materials	A2.6 Pure chemical sustancias	Lanthanum	water	ICP/ICP-MS	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2.Inorganics Reference Materials	A2.6 Pure chemical sustancias	Phosphorus	water	ICP/ICP-MS	1	10000	mg/L	0.2	2	%	

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	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation**
						from	to	Units	from	to	Units	
A. Chemical Composition	A2.Inorganics Reference Materials	A2.6 Pure chemical sustancias	Rhodium	water	ICP/ICP-MS	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2.Inorganics Reference Materials	A2.6 Pure chemical sustancias	Indium	water	ICP/ICP-MS	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2.Inorganics Reference Materials	A2.6 Pure chemical sustancias	Cerium	water	ICP/ICP-MS	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2.Inorganics Reference Materials	A2.6 Pure chemical sustancias	Ammonia as NH3	water	Electrode	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2.Inorganics Reference Materials	A2.6 Pure chemical sustancias	Ammonia as N	water	Electrode	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2.Inorganics Reference Materials	A2.6 Pure chemical sustancias	Nitrate as NO3	water	IC	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2.Inorganics Reference Materials	A2.6 Pure chemical sustancias	Nitrate as N	water	IC	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2.Inorganics Reference Materials	A2.6 Pure chemical sustancias	Nitrite as N	water	IC	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2.Inorganics Reference Materials	A2.6 Pure chemical sustancias	Nitrite as NO2	water	IC	1	10000	mg/L	0.2	2	%	

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	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			
						from	to	Units	from	to	Units	
A. Chemical Composition	A2.Inorganics Reference Materials	A2.6 Pure chemical sustancias	Phosphateas PO4	water	IC	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2.Inorganics Reference Materials	A2.6 Pure chemical sustancias	Sulfate	water	IC	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2.Inorganics Reference Materials	A2.6 Pure chemical sustancias	Chemical oxygen demand (COD)	water	Spectrometry	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2.Inorganics Reference Materials	A2.6 Pure chemical sustancias	Total Kjeldahl Nitrogen (TKN)	water	electrode	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2.Inorganics Reference Materials	A2.6 Pure chemical sustancias	MBAS/LAS Surfactants	water	Spectrometry	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2.Inorganics Reference Materials	A2.6 Pure chemical sustancias	Total dissolve solids (TDS)	water	Spectrometry	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2.Inorganics Reference Materials	A2.6 Pure chemical sustancias	Total suspended solids (TSS)	water	gravimetric	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A3.Organic Reference Materials	A2.6 Pure chemical sustancias	Sulfide	water	Titration	1	10000	mg/L	0.2	2	%	

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	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			
						from	to	Units	from	to	Units	
A. Chemical Composition	A2.Inorganics Reference Materials	A2.6 Pure chemical sustancias	Bromate	water	IC	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2.Inorganics Reference Materials	A2.6 Pure chemical sustancias	Bromide	water	IC	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2.Inorganics Reference Materials	A2.6 Pure chemical sustancias	chlorate	water	IC	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2.Inorganics Reference Materials	A2.6 Pure chemical sustancias	chloride	water	IC	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2.Inorganics Reference Materials	A2.6 Pure chemical sustancias	Complex cyanide	NaOH	Spectrometry	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2.Inorganics Reference Materials	A2.6 Pure chemical sustancias	Free Cyanide	NaOH	IC	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2.Inorganics Reference Materials	A2.6 Pure chemical sustancias	Iodide	water	IC	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2.Inorganics Reference Materials	A2.6 Pure chemical sustancias	Fluoride	water	IC	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A2.Inorganics Reference Materials	A2.6 Pure chemical sustancias	Perchlorate	water	IC	1	10000	mg/L	0.2	2	%	

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Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation**
						from	to	Units	from	to	Units	
A. Chemical Composition	A2.Inorganics Reference Materials	A2.6 Pure chemical sustancias	Total inorganic carbon	water	TOC meter	0.05	10000	mg/L	0.1	5	%	
A. Chemical Composition	A3.Organic Reference Materials	A3.1 Pure organic compounds	Total organic carbon (TOC)	water	TOC meter	0.05	10000	mg/L	0.1	5	%	
A. Chemical Composition	A3.Organic Reference Materials	A3.1 Pure organic compounds	Total organic Halides(TOX)	water	HPLC	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A3.Organic Reference Materials	A3.1 Pure organic compounds	Phenol	water	4AAP	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A3.Organic Reference Materials	A3.1 Pure organic compounds	Acetate	water	IC	1	10000	mg/L	0.2	2	%	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	Aluminum	water	ICP/ICP-MS	800	16000	mg/L	0.4	11	%	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	Antimony	water	ICP/ICP-MS	380	3600	mg/L	0.4	11	%	

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Category	I		II	III	IV	V			VI			VI
	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	Arsenic	water	ICP/ICP-MS	280	3600	mg/L	0.4	11	%	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	Barium	water	ICP/ICP-MS	400	10000	mg/L	0.4	11	%	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	Beryllium	water	ICP/ICP-MS	32	3600	mg/L	0.4	11	%	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	Boron	water	ICP/ICP-MS	3200	8000	mg/L	0.4	11	%	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	Cadmium	water	ICP/ICP-MS	32	3000	mg/L	0.4	11	%	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	Chromium	water	ICP/ICP-MS	68	4000	mg/L	0.4	11	%	

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Category	I		II	III	IV	V			VI			VI
	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	Cobalt	water	ICP/ICP-MS	112	4000	mg/L	0.4	11	%	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	Copper	water	ICP/ICP-MS	160	3600	mg/L	0.4	11	%	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	iron	water	ICP/ICP-MS	800	16000	mg/L	0.4	11	%	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	lead	water	ICP/ICP-MS	280	12000	mg/L	0.4	11	%	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	Manganese	water	ICP/ICP-MS	280	16000	mg/L	0.4	11	%	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	Molybdenum	water	ICP/ICP-MS	240	2400	mg/L	0.4	11	%	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	Nickel	water	ICP/ICP-MS	320	12000	mg/L	0.4	11	%	

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Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	Selenium	water	ICP/ICP-MS	360	8000	mg/L	0.4	11	%	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	Silver	water	ICP/ICP-MS	104	2400	mg/L	0.4	11	%	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	Strontium	water	ICP/ICP-MS	120	1200	mg/L	0.4	11	%	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	Thallium	water	ICP/ICP-MS	240	3600	mg/L	0.4	11	%	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	Vanadium	water	ICP/ICP-MS	220	8000	mg/L	0.4	11	%	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	Zinc	water	ICP/ICP-MS	400	8000	mg/L	0.4	11	%	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	calcium	water	ICP	10	200	mg/L	0.4	12	%	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	Magnesium	water	ICP	10	200	mg/L	0.4	12	%	

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Número de referencia: 22MR0012

I			II	III	IV	V			VI			VI
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	Potassium	water	ICP	5	100	mg/L	0.4	12	%	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	Sodium	water	ICP	10	250	mg/L	0.4	12	%	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	Bromide	water	IC	0.2	20	mg/L	0.4	12	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Chloride	water	IC	0.2	20	mg/L	0.4	12	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Fluoride	water	IC	0.1	10	mg/L	0.4	12	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Nitrate as N	water	IC	0.2	20	mg/L	0.4	12	%	

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Número de referencia: 22MR0012

Category	I		II	III	IV	V			VI			VI
	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Phosphate as P	water	IC	0.5	30	mg/L	0.4	12	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Sulfate	water	IC	0.5	30	mg/L	0.4	12	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Total Coliform, MF	Waste Water	MPN, Membrane filtration	20	2400	CFU/100 mL	2	150	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Total Coliform, MPN	Waste Water	MPN, Membrane filtration	20	2400	MPN/100 mL	2	150	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Fecal Coliform, MF	Waste Water	MPN, Membrane filtration	20	2400	CFU/100 mL	2	150	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Fecal Coliform, MPN	Waste Water	MPN, Membrane filtration	20	2400	MPN/100 mL	2	150	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Enterococci, MF	Waste Water	MPN, Membrane filtration	20	1000	CFU/100 mL	2	150	%	

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						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Enterococci, MPN	Waste Water	MPN, Membrane filtration	20	1000	MPN/100 mL	2	150	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Fecal Streptococci (MF)	Waste Water	MPN, Membrane filtration	20	1000	CFU/100 mL	2	150	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Fecal Streptococci (MPN)	Waste Water	MPN, Membrane filtration	20	1000	MPN/100 mL	2	150	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Alkalinity, total (CaCO ₃)	Waste Water	Titration	10	120	mg/L	0.4	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Chloride	Waste Water	IC	35	275	mg/L	0.4	12	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Fluoride	Waste Water	IC	0.3	4	mg/L	0.4	12	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Potassium	Waste Water	ICP	4	40	mg/L	0.4	12	%	

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						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Sodium	Waste Water	ICP	6	100	mg/L	0.4	12	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Specific conductance (25°C)	Waste Water	Conductivity meter	200	930	µmhos/cm	0.2	10	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Sulfate	Waste Water	IC	5	125	mg/L	0.4	12	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Total dissolved solids	Waste Water	Gravimetric	140	650	mg/L	0.2	16	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Total solids	Waste Water	Gravimetric	140	675	mg/L	0.2	16	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Calcium	Waste Water	ICP	3.5	110	mg/L	0.1	10	%	

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						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Calcium hardness as CaCO ₃	Waste Water	Calculated	8.7	275	mg/L	0.1	10	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Hardness, total (CaCO ₃)	Waste Water	Calculated	17	440	mg/L	0.1	10	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Magnesium	Waste Water	ICP	2	40	mg/L	0.1	10	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Non-Filterable Residue	Waste Water	Gravimetric	23	100	mg/L	0.2	16	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	pH	Waste Water	pH meter	5	10	units	0.1	3	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Total Solids	Waste Water	Gravimetric	140	675	mg/L	0.2	16	%	

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						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Disolved Solids	Waste Water	Gravimetric	140	650	mg/L	0.2	16	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Suspended Solids	Waste Water	Gravimetric	23	100	mg/L	0.2	16	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Settleable Solids	Waste Water	Imhoff cone	5	100	mg/L	6	10	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Volatile Solids	Waste Water	Gravimetric	100	500	mg/L	0.2	16	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Ammonia as N	Waste Water	electrode	0.65	19	mg/L	0.4	10	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Nitrate as N	Waste Water	IC	0.25	40	mg/L	0.4	10	%	

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	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Nitrate plus Nitrite as N	Waste Water	IC	0.25	40	mg/L	0.4	10	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Orthophosphate as P	Waste Water	IC	0.5	5.5	mg/L	0.4	10	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Total Kjeldahl Nitrogen	Waste Water	electrode	1.5	35	mg/L	0.4	10	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Total phosphorus	Waste Water	ICP	0.5	10	mg/L	0.4	10	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Nitrite as N	Waste Water	IC	0.4	4	mg/L	0.4	10	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Oil & grease	Waste Water	Gravimetric	20	100	mg/L	0.4	11	%	

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	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	5 Day BOD	Waste Water	Calculated	15	250	mg/L	0.4	12	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Carbonaceous BOD	Waste Water	Calculated	15	250	mg/L	0.4	12	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	COD	Waste Water	Spectrometry	30	250	mg/L	0.4	12	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	TOC	Waste Water	TOC meter	6	100	mg/L	0.4	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Aluminum	Waste Water	ICP/ICP-MS	200	4000	µg/L	0.4	11	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Antimony	Waste Water	ICP/ICP-MS	95	900	µg/L	0.4	11	%	

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	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Arsenic	Waste Water	ICP/ICP-MS	70	900	µg/L	0.4	11	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Barium	Waste Water	ICP/ICP-MS	100	2500	µg/L	0.4	11	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Beryllium	Waste Water	ICP/ICP-MS	8	900	µg/L	0.4	11	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Boron	Waste Water	ICP/ICP-MS	800	2000	µg/L	0.4	11	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Cadmium	Waste Water	ICP/ICP-MS	8	750	µg/L	0.4	11	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Chromium, total	Waste Water	ICP/ICP-MS	17	1000	µg/L	0.4	11	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Cobalt	Waste Water	ICP/ICP-MS	28	1000	µg/L	0.4	11	%	

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						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Copper	Waste Water	ICP/ICP-MS	40	900	µg/L	0.4	11	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Iron	Waste Water	ICP/ICP-MS	200	4000	µg/L	0.4	11	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Lead	Waste Water	ICP/ICP-MS	70	3000	µg/L	0.4	11	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Manganese	Waste Water	ICP/ICP-MS	70	4000	µg/L	0.4	11	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Molybdenum	Waste Water	ICP/ICP-MS	60	600	µg/L	0.4	11	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Nickel	Waste Water	ICP/ICP-MS	80	3000	µg/L	0.4	11	%	

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	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Selenium	Waste Water	ICP/ICP-MS	90	2000	µg/L	0.4	11	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Silver	Waste Water	ICP/ICP-MS	26	600	µg/L	0.4	11	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Strontium	Waste Water	ICP/ICP-MS	30	300	µg/L	0.4	11	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Thallium	Waste Water	ICP/ICP-MS	60	900	µg/L	0.4	11	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Vanadium	Waste Water	ICP/ICP-MS	55	2000	µg/L	0.4	11	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Zinc	Waste Water	ICP/ICP-MS	100	2000	µg/L	0.4	11	%	

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						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Mercury	Waste Water	CVAA	2	30	µg/L	0.4	11	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Low level Mercury	Waste Water	CVAA	1	100	ng/L	0.4	11	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Chromium VI	Waste Water	Spectrometry	45	880	µg/L	0.4	11	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Tin	Waste Water	ICP/ICP-MS	1000	5000	µg/L	0.4	11	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Titanium	Waste Water	ICP/ICP-MS	80	300	µg/L	0.4	11	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Aluminum	Waste Water	ICP	0.1	1	mg/L	0.4	12	%	

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						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Uranium	Waste Water	ICP/ICP-MS	25	200	µg/L	0.4	11	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Acidity	Waste Water	Titration	650	1800	µg/L	0.4	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Boron	Waste Water	ICP/ICP-MS	0.8	2	µg/L	0.4	11	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Bromide	Waste Water	IC	1	10	mg/L	0.4	12	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Total Residual Chlorine	Waste Water	Titration	0.5	3	mg/L	0.4	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Residual Chlorine	Waste Water	AMP / Titration/UV-VIS	20	250	µg/L	0.4	20	%	

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						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Color	Waste Water	ICP	10	75	Colorunits	0.2	10	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Total Cyanide	Waste Water	Spectrometry	0.1	1	mg/L	0.4	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Total organic Halides(TOX)	Waste Water	HPLC	300	1500	µg/L	0.4	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Total Phenolics (4AAP)	Waste Water	4AAP	0.06	5	mg/L	0.3	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Silica asSiO2	Waste Water	ICP	50	250	mg/L	0.4	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Sulfide	Waste Water	Titration	1	10	mg/L	0.4	12	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Surfactants (MBAS)	Waste Water	Spectrometry	0.2	1	mg/L	0.4	20	%	

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						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Turbidity	Waste Water	Turbidimeter	1	20	NTU	0.2	10	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Acetone	Waste Water	GC/MS	5	200	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Acetonitrile	Waste Water	GC/MS	5	200	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Acrolein	Waste Water	GC/MS	5	200	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Acrylonitrile	Waste Water	GC/MS	5	200	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Benzene	Waste Water	GC/MS	8	120	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Bromodichloromethane	Waste Water	GC/MS	8	115	µg/L	0.6	26	%	

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						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Bromoform	Waste Water	GC/MS	11	100	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Bromomethane	Waste Water	GC/MS	20	100	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	2- Butanone (MEK)	Waste Water	GC/MS	5	200	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Carbon disulfide	Waste Water	GC/MS	5	200	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Carbontetrachloride	Waste Water	GC/MS	10	140	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Chlorobenzene	Waste Water	GC/MS	10	120	µg/L	0.6	26	%	

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						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Chlorodibromo methane	Waste Water	GC/MS	11	140	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Chloroethane	Waste Water	GC/MS	20	100	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	2-Chloroethylvinyl ether	Waste Water	GC/MS	5	200	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Chloroform	Waste Water	GC/MS	12	95	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Chloromethane	Waste Water	GC/MS	20	10	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	1,2-Dibromo-3-chloropropane (DBCP)	Waste Water	GC/MS	5	200	µg/L	0.6	26	%	

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Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	1,2-Dibromoethane (EDB)	Waste Water	GC/MS	5	200	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Dibromomethane	Waste Water	GC/MS	5	200	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	1,2-Dichlorobenzene	Waste Water	GC/MS	8	100	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	1,3-Dichlorobenzene	Waste Water	GC/MS	9	125	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	1,4-Dichlorobenzene	Waste Water	GC/MS	8	115	µg/L	0.6	26	%	

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	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Dichlorodifluoromethane	Waste Water	GC/MS	5	200	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	1,1-Dichloroethane	Waste Water	GC/MS	15	150	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	1,2-Dichloroethane	Waste Water	GC/MS	10	150	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	1,1-Dichloroethane	Waste Water	GC/MS	11	120	µg/L	0.6	26	%	

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	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	cis-1,2-Dichloroethene	Waste Water	GC/MS	15	150	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	trans-1,2-Dichloroethene	Waste Water	GC/MS	10	150	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	1,2-Dichloropropane	Waste Water	GC/MS	10	150	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	cis-1,3-Dichloropropane	Waste Water	GC/MS	15	100	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	trans-1,3-Dichloropropane	Waste Water	GC/MS	8	90	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Ethylbenzene	Waste Water	GC/MS	9	100	µg/L	0.6	26	%	

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	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Hexachlorobutadiene	Waste Water	GC/MS	50	180	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	2-Hexanone	Waste Water	GC/MS	20	150	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Methylene Chloride	Waste Water	GC/MS	10	125	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	4-Methyl-2-pentanone (MIBK)	Waste Water	GC/MS	20	200	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Methyl-tert-butylether (MTBE)	Waste Water	GC/MS	15	100	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Naphthalene	Waste Water	GC/MS	30	190	µg/L	0.6	26	%	

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Category	I		II Specified Property	III Matrix	IV Characterization procedures*	V Value interval of the Reference Material			VI Interval of expanded uncertainty for the certified value			VII Presentation*
	Subcategory level 1	Subcategory level 2				from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Styrene	Waste Water	GC/MS	20	100	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	1,1,1,2-Tetrachloroethane	Waste Water	GC/MS	5	200	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	1,1,2,2-Tetrachloroethane	Waste Water	GC/MS	10	150	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Tetrachloroethane	Waste Water	GC/MS	10	150	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Toluene	Waste Water	GC/MS	7	100	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	1,2,4-Trichlorobenzene	Waste Water	GC/MS	35	180	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	1,1,1-Trichloroethane	Waste Water	GC/MS	10	90	µg/L	0.6	26	%	

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Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	1,1,2-Trichloroethane	Waste Water	GC/MS	25	150	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Trichloroethane	Waste Water	GC/MS	10	95	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Trichlorofluoromet hane (Freon 11)	Waste Water	GC/MS	200	100	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	1,2,3-Trichloroprop ane	Waste Water	GC/MS	5	200	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Vinyl acetate	Waste Water	GC/MS	5	200	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Vinyl chloride	Waste Water	GC/MS	20	100	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Xylenes, total	Waste Water	GC/MS	20	300	µg/L	0.6	26	%	

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Category	I		II Specified Property	III Matrix	IV Characterization procedures*	V			VI			VI Presentation*
	Subcategory level 1	Subcategory level 2				Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Acenaphthene	Waste Water	GC	10	200	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Acenaphthylene	Waste Water	GC	10	200	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Aniline	Waste Water	GC	10	200	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Antracene	Waste Water	GC	10	200	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Benzidine	Waste Water	GC	200	1000	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Benzo(a)anthracene	Waste Water	GC	10	200	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Benzo(b)fluoranthene	Waste Water	GC	20	125	µg/L	0.6	32	%	

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	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Benzo(k)fluor an thene	Waste Water	GC	25	200	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Benzo(g,h,i)p er ylene	Waste Water	GC	20	200	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Benzo(a)pyr ene	Waste Water	GC	20	160	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Benzyl alcohol	Waste Water	GC	10	200	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	4- Bromophenyl phenylether	Waste Water	GC	20	200	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Butylbenzylp hth alate	Waste Water	GC	50	200	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Carbazole	Waste Water	GC	10	200	µg/L	0.6	32	%	

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	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	4-Chloroaniline	Waste Water	GC	10	200	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Bis(2-Chloroethoxy) methane	Waste Water	GC	10	200	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Bis(2-chloroethyl) ether	Waste Water	GC	10	200	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Bis(2-chloroisopropyl) ether	Waste Water	GC	30	200	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Bis(2-ethylhexyl) phthalate	Waste Water	GC	20	200	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	1-Chloronaphthalene	Waste Water	GC	10	200	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	2-Chloronaphthalene	Waste Water	GC	20	200	µg/L	0.6	32	%	

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	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	4-Chlorophenylphenylether	Waste Water	GC	25	200	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Chrysene	Waste Water	GC	10	200	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Dibenz(a,h)anthracene	Waste Water	GC	20	100	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Dibenzofuran	Waste Water	GC	30	125	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Di-n-butylphthalate	Waste Water	GC	40	180	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	1,2-Dichlorobenzene	Waste Water	GC	30	150	µg/L	0.6	32	%	

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	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	1,3-Dichlorobenzene	Waste Water	GC	30	150	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	1,4-Dichlorobenzene	Waste Water	GC	30	150	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	3,3'-Dichlorobenzidine	Waste Water	GC	60	200	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Diethylphthalate	Waste Water	GC	65	170	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Dimethylphthalate	Waste Water	GC	100	180	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	2,4-Dinitrotoluene	Waste Water	GC	20	190	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	2,6-Dinitrotoluene	Waste Water	GC	20	190	µg/L	0.6	32	%	

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	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	Di-n-octylphthalate	Waste Water	GC	40	190	µg/L	0.6	32	%	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	Fluoranthene	Waste Water	GC	30	190	µg/L	0.6	32	%	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	Fluorene	Waste Water	GC	30	190	µg/L	0.6	32	%	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	Hexachlorobenzene	Waste Water	GC	20	190	µg/L	0.6	32	%	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	Hexachlorobutadiene	Waste Water	GC	50	180	µg/L	0.6	32	%	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	Hexachlorocyclopentadiene	Waste Water	GC	100	225	µg/L	0.6	32	%	

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Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	Hexachloroethane	Waste Water	GC	50	190	µg/L	0.6	32	%	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	Indenol(1,2,3-cd)pyrene	Waste Water	GC	30	125	µg/L	0.6	32	%	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	Isophorone	Waste Water	GC	30	140	µg/L	0.6	32	%	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	2-Methylnaphthalene	Waste Water	GC	30	190	µg/L	0.6	32	%	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	Naphthalene	Waste Water	GC	30	190	µg/L	0.6	32	%	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	2-Nitroaniline	Waste Water	GC	10	200	µg/L	0.6	32	%	

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	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	3-Nitroaniline	Waste Water	GC	10	200	µg/L	0.6	32	%	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	4-Nitroaniline	Waste Water	GC	10	200	µg/L	0.6	32	%	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	Nitrobenzene	Waste Water	GC	20	190	µg/L	0.6	32	%	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	N-Nitrosodiethylamine	Waste Water	GC	10	200	µg/L	0.6	32	%	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	N-Nitrosodimethylamine (NDMA)	Waste Water	GC	75	200	µg/L	0.6	32	%	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	N-Nitrosodiphenylamine	Waste Water	GC	30	200	µg/L	0.6	32	%	

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	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			
						from	to	Units	from	to	Units	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	N-Nitroso-din-propylamine	Waste Water	GC	30	140	µg/L	0.6	32	%	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	Pentachlorobenzene	Waste Water	GC	10	200	µg/L	0.6	32	%	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	Phenanthrene	Waste Water	GC	30	140	µg/L	0.6	32	%	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	Pyrene	Waste Water	GC	30	200	µg/L	0.6	32	%	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	Pyridine	Waste Water	GC	10	200	µg/L	0.6	32	%	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	o-Toluidine	Waste Water	GC	10	200	µg/L	0.6	32	%	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	1,2,4,5-Tetrachlorobenzene	Waste Water	GC	10	200	µg/L	0.6	32	%	

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	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	1,2,4-Trichlorobenzene	Waste Water	GC	35	180	µg/L	0.6	32	%	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	Benzoic acid	Waste Water	HPLC	30	200	µg/L	0.6	32	%	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	4-Chloro-3-methylphenol	Waste Water	HPLC	30	200	µg/L	0.6	32	%	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	2-Chlorophenol	Waste Water	HPLC	30	200	µg/L	0.6	32	%	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	2,4-Dichlorophenol	Waste Water	HPLC	40	190	µg/L	0.6	32	%	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	2,6-Dichlorophenol	Waste Water	HPLC	40	190	µg/L	0.6	32	%	

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Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	2,4-Dimethylphenol	Waste Water	HPLC	65	200	µg/L	0.6	32	%	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	2,4-Dinitrophenol	Waste Water	HPLC	100	180	µg/L	0.6	32	%	A. Chemical Composition
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	2-methyl-4,6-Dinitrophenol	Waste Water	HPLC	60	200	µg/L	0.6	32	%	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	2-Methylphenol (o-Cresol)	Waste Water	HPLC	50	200	µg/L	0.6	32	%	
A. Chemical Composition	A4.Environmental Reference Materials	A4.3 Water	4-Methylphenol (p-Cresol)	Waste Water	HPLC	50	200	µg/L	0.6	32	%	

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	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	2-Nitrophenol	Waste Water	HPLC	50	190	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	4-Nitrophenol	Waste Water	HPLC	100	180	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Pentachlorophenol	Waste Water	HPLC	55	200	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Phenol	Waste Water	HPLC	100	200	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	2,3,4,6-Tetrachlorophenol	Waste Water	HPLC	30	200	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	2,4,5-Trichlorophenol	Waste Water	HPLC	50	200	µg/L	0.6	32	%	

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Número de referencia: 22MR0012

Category	I		II	III	IV	V			VI			VI
	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	2,4,6-Trichlorophenol	Waste Water	HPLC	50	200	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	4-Amino-2,6-Dinitrotoluene	Waste Water	HPLC	1	20	µg/L	1	16	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	2-Amino-4,6-dinitrotoluene	Waste Water	HPLC	1	20	µg/L	1	16	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	1,3-Dinitrobenzene	Waste Water	HPLC	1	20	µg/L	1	16	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	2,4-Dinitrotoluene	Waste Water	HPLC	1	20	µg/L	1	16	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	2,6-Dinitrotoluene	Waste Water	HPLC	1	20	µg/L	1	16	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	HMX	Waste Water	HPLC	1	20	µg/L	1	16	%	

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	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Nitrobenzene	Waste Water	HPLC	1	20	µg/L	1	16	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	2-Nitrotoluene	Waste Water	HPLC	1	20	µg/L	1	16	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	3-Nitrotoluene	Waste Water	HPLC	1	20	µg/L	1	16	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	4-Nitrotoluene	Waste Water	HPLC	1	20	µg/L	1	16	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	RDX	Waste Water	HPLC	1	20	µg/L	1	16	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Tetryl	Waste Water	HPLC	1	20	µg/L	1	16	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	1,3,5-Trinitrobenzene	Waste Water	HPLC	1	20	µg/L	1	16	%	

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Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	2,4,6-Trinitrotoluene	Waste Water	HPLC	1	20	µg/L	1	16	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Acenaphthalene	Waste Water	HPLC	2	10	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Acenaphthylene	Waste Water	HPLC	2	10	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Antracene	Waste Water	HPLC	0.5	2	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Benzo(a)anthracene	Waste Water	HPLC	0.3	2	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Benzo(b)fluoranthene	Waste Water	HPLC	0.3	2	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Benzo(k)fluoranthene	Waste Water	HPLC	0.3	2	µg/L	0.6	32	%	

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Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Benzo(g,h,i)perylene	Waste Water	HPLC	0.3	2	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Benzo(a)pyrene	Waste Water	HPLC	0.5	2	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Chrysene	Waste Water	HPLC	0.3	2	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Dibenz(a,h)anthracene	Waste Water	HPLC	0.5	2	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Fluoranthene	Waste Water	HPLC	0.3	2	µg/L	0.6	32	%	

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	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Fluorene	Waste Water	HPLC	2	10	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Indenol(1,2,3cd)pyrene	Waste Water	HPLC	0.5	2	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Naphthalene	Waste Water	HPLC	2	10	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Phenanthrene	Waste Water	HPLC	0.3	2	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Pyrene	Waste Water	HPLC	0.3	2	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Acifluorfen	Waste Water	HPLC	2	10	µg/L	0.6	9	%	

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Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Bentazon	Waste Water	HPLC	2	10	µg/L	0.6	9	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Chloramben	Waste Water	HPLC	2	10	µg/L	0.6	9	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	2,4-D	Waste Water	HPLC	2	10	µg/L	0.6	9	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	2,4-DB	Waste Water	HPLC	2	10	µg/L	0.6	9	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	DCEPA	Waste Water	HPLC	2	10	µg/L	0.6	9	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Dalapon	Waste Water	HPLC	2	10	µg/L	0.6	9	%	

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Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Dicamba	Waste Water	HPLC	2	10	µg/L	0.6	9	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	3,5- Dichlorobenz oic acid	Waste Water	HPLC	2	10	µg/L	0.6	9	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Dichlorprop	Waste Water	HPLC	2	10	µg/L	0.6	9	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Dinoseb	Waste Water	HPLC	2	10	µg/L	0.6	9	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	MCPA	Waste Water	HPLC	10	100	µg/L	0.6	9	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	MCPP	Waste Water	HPLC	10	100	µg/L	0.6	9	%	

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Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	4-Nitrophenol	Waste Water	HPLC	2	10	µg/L	0.6	9	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Pentachlorophenol	Waste Water	HPLC	2	10	µg/L	0.6	9	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Pichloram	Waste Water	HPLC	2	10	µg/L	0.6	9	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	2,4,5-T	Waste Water	HPLC	2	10	µg/L	0.6	9	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	2,4,5-TP (Silvex)	Waste Water	HPLC	2	10	µg/L	0.6	9	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Aroclor 1016	Waste Water	GC	0.5	20	µg/L	0.5	15	%	

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	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Aroclor 1221	Waste Water	GC	0.5	20	µg/L	0.5	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Aroclor 1232	Waste Water	GC	0.5	20	µg/L	0.5	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Aroclor 1242	Waste Water	GC	0.5	20	µg/L	0.5	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Aroclor 1248	Waste Water	GC	0.5	20	µg/L	0.5	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Aroclor 1254	Waste Water	GC	0.5	20	µg/L	0.5	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Aroclor 1260	Waste Water	GC	0.5	20	µg/L	0.5	15	%	

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Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Aldrin	Waste Water	GC	0.5	15	µg/L	0.6	28	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	alpha-BHC	Waste Water	GC	2	15	µg/L	0.6	28	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	beta-BHC	Waste Water	GC	2	15	µg/L	0.6	28	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	delta-BHC	Waste Water	GC	2	15	µg/L	0.6	28	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	gamma-BHC (Lindane)	Waste Water	GC	2	15	µg/L	0.6	28	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	alpha-Chlordane	Waste Water	GC	1	9.8	µg/L	0.6	28	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	gamma-Chlordane	Waste Water	GC	1.2	7.8	µg/L	0.6	28	%	

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Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	DDD (4,4)	Waste Water	GC	2	10	µg/L	0.6	28	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	DDE (4,4)	Waste Water	GC	2	10	µg/L	0.6	28	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	DDT(4,4)	Waste Water	GC	1	10	µg/L	0.6	28	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Dieldrin	Waste Water	GC	1	13	µg/L	0.6	28	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Endosulfan I	Waste Water	GC	4	17	µg/L	0.6	28	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Endosulfan II	Waste Water	GC	4	20	µg/L	0.6	28	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Endosulfan sulfate	Waste Water	GC	2	20	µg/L	0.6	28	%	

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Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Endrin	Waste Water	GC	2	20	µg/L	0.6	28	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Endrin aldehyde	Waste Water	GC	4	20	µg/L	0.6	28	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Endrin ketone	Waste Water	GC	2	10	µg/L	0.6	28	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Heptachlor	Waste Water	GC	1	10	µg/L	0.6	28	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Heptachlor Epoxide (beta)	Waste Water	GC	1	10	µg/L	0.6	28	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Methoxychlor	Waste Water	GC	2	15	µg/L	0.6	28	%	

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Category	I		II Specified Property	III Matrix	IV Characterization procedures*	V Value interval of the Reference Material			VI Interval of expanded uncertainty for the certified value			VII Presentation*
	Subcategory level 1	Subcategory level 2				from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Chlordane(to tal)	Waste Water	GC	3	25	µg/L	0.6	28	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Toxaphene	Waste Water	GC	2	100	µg/L	0.6	28	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Aldicarb	Waste Water	GC	5	200	µg/L	0.6	10	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Aldicarb sulfone	Waste Water	GC	5	200	µg/L	0.6	10	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Aldicarb sulfoxide	Waste Water	GC	5	200	µg/L	0.6	10	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Carbaryl	Waste Water	GC	5	200	µg/L	0.6	10	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Carbofuran	Waste Water	GC	5	200	µg/L	0.6	10	%	

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Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Diuron	Waste Water	GC	5	200	µg/L	0.6	10	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	3-Hydroxycarbofuran	Waste Water	GC	5	200	µg/L	0.6	10	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Methiocarb	Waste Water	GC	5	200	µg/L	0.6	10	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Methomyl	Waste Water	GC	5	200	µg/L	0.6	10	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Oxamyl (vydate)	Waste Water	GC	5	200	µg/L	0.6	10	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Propham	Waste Water	GC	5	200	µg/L	0.6	10	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Alachlor	Waste Water	GC	2	20	µg/L	0.6	28	%	

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Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Atrazine	Waste Water	GC	2	20	µg/L	0.6	28	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Bromacil	Waste Water	GC	2	20	µg/L	0.6	28	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Butachlor	Waste Water	GC	2	20	µg/L	0.6	28	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Butylate	Waste Water	GC	2	20	µg/L	0.6	28	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Cyanazine	Waste Water	GC	2	20	µg/L	0.6	28	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Diethyl atrazine	Waste Water	GC	2	20	µg/L	0.6	28	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Deisopropyl atrazine	Waste Water	GC	2	20	µg/L	0.6	28	%	

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Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	EPTC (Eptam)	Waste Water	GC	2	20	µg/L	0.6	28	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Metolachlor	Waste Water	GC	2	20	µg/L	0.6	28	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Metribuzin	Waste Water	GC	2	20	µg/L	0.6	28	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Napropamide	Waste Water	GC	2	20	µg/L	0.6	28	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Prometon	Waste Water	GC	2	20	µg/L	0.6	28	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Prometryn	Waste Water	GC	2	20	µg/L	0.6	28	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Propachlor	Waste Water	GC	2	20	µg/L	0.6	28	%	

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Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Simazine	Waste Water	GC	2	20	µg/L	0.6	28	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Trifluralin	Waste Water	GC	2	20	µg/L	0.6	28	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Azinphos-methyl	Waste Water	GC	3.6	13.8	µg/L	0.6	22	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Carbophenot hio n	Waste Water	GC	2	20	µg/L	0.6	22	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Chlorpyrifos	Waste Water	GC	2	20	µg/L	0.6	22	%	

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	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Demeton-O	Waste Water	GC	2	20	µg/L	0.6	22	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Demeton-S	Waste Water	GC	2	20	µg/L	0.6	22	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Diazinon	Waste Water	GC	2	15	µg/L	0.6	22	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Dichlorvos	Waste Water	GC	2	20	µg/L	0.6	22	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Dimethoate	Waste Water	GC	2	20	µg/L	0.6	22	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Dioxathion	Waste Water	GC	2	20	µg/L	0.6	22	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Disulfoton	Waste Water	GC	2	15	µg/L	0.6	22	%	

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						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Ethion	Waste Water	GC	2	20	µg/L	0.6	22	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Ethoprop	Waste Water	GC	2	20	µg/L	0.6	22	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Ethyl parathion	Waste Water	GC	3	20	µg/L	0.6	22	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Famphur	Waste Water	GC	2	20	µg/L	0.6	22	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Fonofos	Waste Water	GC	2	20	µg/L	0.6	22	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Malathion	Waste Water	GC	2	20	µg/L	0.6	22	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Methyl parathion	Waste Water	GC	2	20	µg/L	0.6	22	%	

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						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Phorate	Waste Water	GC	2	20	µg/L	0.6	22	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Phosmet	Waste Water	GC	2	20	µg/L	0.6	22	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Ronnel	Waste Water	GC	2	20	µg/L	0.6	22	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Stirophos	Waste Water	GC	2	20	µg/L	0.6	22	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Terbufos	Waste Water	GC	2	20	µg/L	0.6	22	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Benzene	Waste Water	GC	8	120	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Ethylbenzene	Waste Water	GC	9	100	µg/L	0.6	26	%	

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A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Toluene	Waste Water	GC	7	100	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Xylenes, total	Waste Water	GC	20	300	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Methyl-tert-butylether (MTBE)	Waste Water	GC	15	100	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Gasoline Range Organics (GRO)	Waste Water	GC	200	4000	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Benzene in GRO	Waste Water	GC	1	1000	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Ethylbenzene in GRO	Waste Water	GC	1	1000	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Toluene in GRO	Waste Water	GC	1	1000	µg/L	0.6	26	%	

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A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Xylenes, total, in GRO	Waste Water	GC	1	1000	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Diesel Range Organics	Waste Water	GC	500	4000	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Total Petroleum Hydrocarbons	Waste Water	GC	20	170	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Total Coliform, MF	Potable water	MPN, Membrane filtration	20	2400	CFU/100 mL	2	150	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Total Coliform, MPN	Potable water	MPN, Membrane filtration	20	2400	MPN/100 mL	2	150	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Fecal Coliform, MF	Potable water	MPN, Membrane filtration	20	2400	CFU/100 mL	2	150	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Fecal Coliform, MPN	Potable water	MPN, Membrane filtration	20	2400	MPN/100 mL	2	150	%	

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A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Total Coliform	Potable water	Presence/Absence	Presence	Absence	(+/-)	2	150	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Fecal Coliform/ E.coli	Potable water	Presence/Absence	Presence	Absence	(+/-)	2	150	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Heterotrophic Plate Count	Potable water	MPN and Pour Plate	5	500	CFU/mL	2	150	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	E. coli	Potable water	MPN, Membrane filtration	10	300	CFU/100 mL	2	150	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Total Hardness as CaCO ₃	Potable water	Calculated	83	307	mg/L	0.1	10	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Calcium hardness as CaCO ₃	Potable water	Calculated	75	375	mg/L	0.1	10	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Calcium	Potable water	ICP	30	90	mg/L	0.1	10	%	

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						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Magnesium	Potable water	ICP	2	20	mg/L	0.1	10	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Sodium	Potable water	ICP	12	24	mg/L	0.1	10	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Alkalinity, total (CaCO ₃)	Potable water	Titration	25	200	mg/L	0.4	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Chloride	Potable water	IC	5	100	mg/L	0.4	12	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Fluoride	Potable water	IC	1	8	mg/L	0.4	12	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Nitrate as N	Potable water	IC	3	10	mg/L	0.4	10	%	

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A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Nitrate plus Nitrite as N	Potable water	IC	3.5	9	mg/L	0.4	10	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Potassium	Potable water	ICP	10	40	mg/L	0.4	12	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Specific conductance	Potable water	Conductivity meter	250	2500	µmhos	0.2	10	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Sulfate	Potable water	IC	5	500	mg/L	0.4	12	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Total Filterable Residue	Potable water	gravimetric	200	450	mg/L	0.2	16	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	pH	Potable water	pH meter	5	10	units	0.1	3	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Aluminum	Potable water	ICP/ICP-MS	130	2500	µg/L	0.4	11	%	

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A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Antimony	Potable water	ICP/ICP-MS	6	50	µg/L	0.4	11	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Arsenic	Potable water	ICP/ICP-MS	5	50	µg/L	0.4	11	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Barium	Potable water	ICP/ICP-MS	500	3000	µg/L	0.4	11	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Beryllium	Potable water	ICP/ICP-MS	1	10	µg/L	0.4	11	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Boron	Potable water	ICP/ICP-MS	800	2000	µg/L	0.4	11	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Cadmium	Potable water	ICP/ICP-MS	2	50	µg/L	0.4	11	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Chromium	Potable water	ICP/ICP-MS	10	200	µg/L	0.4	11	%	

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						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Cooper	Potable water	ICP/ICP-MS	50	2000	µg/L	0.4	11	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Iron	Potable water	ICP/ICP-MS	100	1800	µg/L	0.4	11	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Lead	Potable water	ICP/ICP-MS	5	100	µg/L	0.4	11	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Manganese	Potable water	ICP/ICP-MS	40	900	µg/L	0.4	11	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Molybdenum	Potable water	ICP/ICP-MS	15	130	µg/L	0.4	11	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Nickel	Potable water	ICP/ICP-MS	10	500	µg/L	0.4	11	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Selenium	Potable water	ICP/ICP-MS	10	100	µg/L	0.4	11	%	

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						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Silver	Potable water	ICP/ICP-MS	20	300	µg/L	0.4	11	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Thallium	Potable water	ICP/ICP-MS	2	10	µg/L	0.4	11	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Vanadium	Potable water	ICP/ICP-MS	315	2500	µg/L	0.4	11	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Zinc	Potable water	ICP/ICP-MS	400	2500	µg/L	0.4	11	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Mercury	Potable water	ICP/ICP-MS	0.5	10	µg/L	0.4	11	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Chromium VI	Potable water	ICP/ICP-MS	5	50	µg/L	0.4	11	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Uranium	Potable water	ICP/ICP-MS	3	104	µg/L	0.4	11	%	

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						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Vanadium	Potable water	ICP/ICP-MS	12.4	13.9	µg/L	0.4	11	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Bromate	Potable water	IC	7	50	µg/L	0.4	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Bromide	Potable water	IC	75	500	µg/L	0.4	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Chlorate	Potable water	IC	60	180	µg/L	0.4	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Chlorite	Potable water	IC	100	1000	µg/L	0.4	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Nitrite as N	Potable water	IC	0.4	2	mg/L	0.4	12	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	o-Phosphate as P	Potable water	IC	0.5	5.5	mg/L	0.4	12	%	

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						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Free Residual Chlorine	Potable water	Titration	0.5	3	mg/L	0.4	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Total Residual Chlorine	Potable water	Titration	0.5	3	mg/L	0.4	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Cyanide	Potable water	Spectrometry	0.1	0.5	mg/L	0.4	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Disolved Organic Carbon (DOC)	Potable water	TOC meter	1.2	4.9	mg/L	0.4	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Total organic Carbon	Potable water	TOC meter	1.2	4.9	mg/L	0.4	20	%	

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						from	to	Units	from	to	Units	*
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Perchlorate	Potable water	IC	4	20	µg/L	0.4	12	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Silica as SiO ₂	Potable water	ICP	5	50	mg/L	0.4	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	MBAS	Potable water	Spectrometry	0.05	1	mg/L	0.4	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Corrosivity	Potable water	Calculated	-4	4	s.i units	0.2	10	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Turbidity	Potable water	Turbidity meter	0.5	8	NTU	0.2	10	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	UV-254 Absorbance	Potable water	Spectrometry	0.02	0.7	cm-1	0.2	10	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	T-amymethylether (TAME)	Potable water	GC	5	50	µg/L	0.6	26	%	

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						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	tert-Butyl alcohol	Potable water	GC	5	50	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Ethyl-t-butylether (ETBE)	Potable water	GC	5	50	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Di-isopropylether (DIPE)	Potable water	GC	5	50	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Methyl-tert-butylether (MTBE)	Potable water	GC	5	50	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Trichlorotrifluoro ethane (Freon 113)	Potable water	GC	5	50	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Trichlorofluoro ethane (Freon 11)	Potable water	GC	5	50	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Bromodichloro ethane	Potable water	GC	10	50	µg/L	1	9	%	

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						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Bromoform	Potable water	GC	10	50	µg/L	1	9	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Chlorodibromo methane	Potable water	GC	10	50	µg/L	1	9	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Chloroform	Potable water	GC	10	50	µg/L	1	9	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Benzene	Potable water	GC	2.5	20	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Carbon tetrachloride	Potable water	GC	2.5	20	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Chlorobenzene	Potable water	GC	2	50	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	1,2-Dichlorobenzene	Potable water	GC	5	50	µg/L	0.6	26	%	

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Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	1,4-Dichlorobenzene	Potable water	GC	2.5	20	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	1,2-Dichloroethane	Potable water	GC	2	20	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	1,1-Dichloroethylene	Potable water	GC	2	20	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	cis-1,2-Dichloroethylene	Potable water	GC	2	50	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	trans-1,2-Dichloroethylene	Potable water	GC	2	50	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Dichloromethane (Methylene Chloride)	Potable water	GC	5	50	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	1,2-Dichloropropane	Potable water	GC	2.5	20	µg/L	0.6	26	%	

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Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Ethylbenzene	Potable water	GC	2	20	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Styrene	Potable water	GC	2	20	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Tetrachloroethylene	Potable water	GC	2	20	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Toluene	Potable water	GC	2	20	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	1,2,4-Trichlorobenzene	Potable water	GC	2	20	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	1,1,1-Trichloroethane	Potable water	GC	2	20	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	1,1,2-Trichloroethane	Potable water	GC	2	20	µg/L	0.6	26	%	

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Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Trichloroethylene	Potable water	GC	2	20	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Vinyl Chloride	Potable water	GC	1	50	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Total Xylenes	Potable water	GC	5	50	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Bromobenzene	Potable water	GC	5	50	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Bromochloro methane	Potable water	GC	5	50	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Bromomethane	Potable water	GC	5	50	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	n-Butylbenzene	Potable water	GC	5	50	µg/L	0.6	26	%	

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Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Sec-Butylbenzene	Potable water	GC	5	50	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	tert-Butylbenzene	Potable water	GC	5	50	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Chloroethane	Potable water	GC	5	50	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Chloromethane	Potable water	GC	5	50	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	2-Chlorotoluene	Potable water	GC	5	50	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	4-Chlorotoluene	Potable water	GC	5	50	µg/L	0.6	26	%	

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	Subcategory level 1	Subcategory level 2				from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Dibromomet han e	Potable water	GC	5	50	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	1,3- Dichlorobenz en e	Potable water	GC	5	50	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Dichlorodiflu oro methane	Potable water	GC	5	50	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	1,1- Dichloroetha ne	Potable water	GC	5	50	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	1,3- Dichloroprop an e	Potable water	GC	5	50	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	2,2- Dichloroprop an e	Potable water	GC	5	50	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	1,1- Dichloroprop en e	Potable water	GC	5	50	µg/L	0.6	26	%	

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Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	cis-1,3-Dichloropropene	Potable water	GC	5	50	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	trans-1,3-Dichloropropene	Potable water	GC	5	50	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Hexachlorobutadiene	Potable water	GC	5	50	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Isopropylbenzene	Potable water	GC	5	50	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	4-Isopropyltoluene	Potable water	GC	5	50	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Methyl-tert-butylether (MTBE)	Potable water	GC	5	50	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Naphthalene	Potable water	GC	2	50	µg/L	0.6	26	%	

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	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	n-Propylbenzene	Potable water	GC	5	50	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	1,1,1,2-Tetrachloroethane	Potable water	GC	5	50	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	1,1,2,2-Tetrachloroethane	Potable water	GC	5	50	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	1,2,3-Trichlorobenzene	Potable water	GC	5	50	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Trichlorofluoromethane (Freon 11)	Potable water	GC	5	50	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	1,2,3-Trichloropropane	Potable water	GC	5	50	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	1,2,4-Trimethylbenzene	Potable water	GC	5	50	µg/L	0.6	26	%	

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Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	1,3,5-Trimethylbenzene	Potable water	GC	5	50	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Chloral Hydrate	Potable water	GC	4	30	µg/L	0.6	26	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Bromochloroacetic Acid	Potable water	HPLC	10	50	µg/L	2	19	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Dibromoacetic Acid	Potable water	HPLC	10	50	µg/L	2	19	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Dichloroacetic Acid	Potable water	HPLC	10	50	µg/L	2	19	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Monobromoaetic Acid	Potable water	HPLC	10	50	µg/L	2	19	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Monochloroaetic Acid	Potable water	HPLC	10	50	µg/L	2	19	%	

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Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Trichloroacetic Acid	Potable water	HPLC	10	50	µg/L	2	19	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Total Coliform, MF	Potable water	MPN, Membrane filtration	20	2400	CFU/100 mL	2	150	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Total Coliform, MPN	Potable water	MPN, Membrane filtration	20	2400	MPN/100 mL	2	150	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Fecal Coliform, MF	Potable water	MPN, Membrane filtration	20	2400	CFU/100 mL	2	150	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Fecal Coliform, MPN	Potable water	MPN, Membrane filtration	20	2400	MPN/100 mL	2	150	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	2,3,7,8-Tetrachlorodibenzodioxin	Potable water	GC	25	80	pg/L	11	16	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	PCBs as decachlorobiphenyl	Potable water	GC	0.5	5	µg/L	0.5	15	%	

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Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Aroclor 1016	Potable water	GC	0.26	2.6	µg/L	0.5	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Aroclor 1221	Potable water	GC	0.19	1.9	µg/L	0.5	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Aroclor 1232	Potable water	GC	0.23	2.3	µg/L	0.5	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Aroclor 1242	Potable water	GC	0.26	2.6	µg/L	0.5	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Aroclor 1248	Potable water	GC	0.3	3	µg/L	0.5	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Aroclor 1254	Potable water	GC	0.33	3.3	µg/L	0.5	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Aroclor 1260	Potable water	GC	0.36	3.6	µg/L	0.5	15	%	

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Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Acenaphthene	Potable water	HPLC	1	10	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Acenaphthylene	Potable water	HPLC	1	10	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Antracene	Potable water	HPLC	1	10	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Benzo(a)anthracene	Potable water	HPLC	1	10	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Benzo(b)fluoranthene	Potable water	HPLC	1	10	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Benzo(k)fluoranthene	Potable water	HPLC	1	10	µg/L	0.6	32	%	

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Category	I		II Specified Property	III Matrix	IV Characterization procedures*	V			VI			VI Presentation**
	Subcategory level 1	Subcategory level 2				Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Benzo(g,h,i)p er ylene	Potable water	HPLC	1	10	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Benzo(a)pyr ene	Potable water	HPLC	0.2	2.5	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Butylbenzylp hth alate	Potable water	HPLC	10	50	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Chrysene	Potable water	HPLC	1	10	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Dibenz(a,h)a nth racene	Potable water	HPLC	1	10	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Di-n- butylphthalat e	Potable water	HPLC	10	50	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Diethylphthal ate	Potable water	HPLC	10	50	µg/L	0.6	32	%	

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Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation**
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Dimethylphthalate	Potable water	HPLC	10	50	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Di-n-octylphthalate	Potable water	HPLC	10	50	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	bis(2-ethylhexil)Adipate	Potable water	GC	8	50	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	bis(2-ethylhexil)Phthalate	Potable water	HPLC	9	50	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Fluoranthene	Potable water	HPLC	1	10	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Fluorene	Potable water	HPLC	1	10	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Indenol(1,2,3-cd)pyrene	Potable water	HPLC	1	10	µg/L	0.6	32	%	

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Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation**
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Naphthalene	Potable water	HPLC	2	50	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Phenanthrene	Potable water	HPLC	1	10	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Pyrene	Potable water	HPLC	1	10	µg/L	0.6	32	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Acifluorfen	Potable water	HPLC	15	50	µg/L	0.6	9	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Bentazon	Potable water	HPLC	10	140	µg/L	0.6	9	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Chloramben	Potable water	HPLC	20	100	µg/L	0.6	9	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	2,4-D	Potable water	HPLC	5	150	µg/L	0.6	9	%	

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Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation**
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	2,4-DB	Potable water	HPLC	15	100	µg/L	0.6	9	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	DCPA	Potable water	HPLC	20	100	µg/L	0.6	9	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Dalapon	Potable water	HPLC	10	150	µg/L	0.6	9	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Dicamba	Potable water	HPLC	5	100	µg/L	0.6	9	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	3,5-Dichlorobenz oic acid	Potable water	HPLC	10	100	µg/L	0.6	9	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Dichlorprop	Potable water	HPLC	10	100	µg/L	0.6	9	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Dinoseb	Potable water	HPLC	6	50	µg/L	0.6	9	%	

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Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	4-Nitrophenol	Potable water	HPLC	5	150	µg/L	0.6	9	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Pentachlorophenol	Potable water	HPLC	1	100	µg/L	0.6	9	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Picloram	Potable water	HPLC	10	70	µg/L	0.6	9	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	2,4,5-T	Potable water	HPLC	10	100	µg/L	0.6	9	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	2,4,5-TP (Silvex)	Potable water	HPLC	5	150	µg/L	0.6	9	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Diquat	Potable water	HPLC	80	40	µg/L	0.6	7	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Endothall	Potable water	HPLC	90	500	µg/L	0.6	7	%	

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Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Glyphosate	Potable water	HPLC	375	800	µg/L	0.6	7	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Paraquat	Potable water	HPLC	8	100	µg/L	0.6	7	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Alachlor	Potable water	GC	2	20	µg/L	0.6	28	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Aldrin	Potable water	GC	0.4	2	µg/L	0.6	28	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Atrazine	Potable water	GC	3	30	µg/L	0.6	28	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Bromacil	Potable water	GC	2	20	µg/L	0.6	28	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Buthachlor	Potable water	GC	8	80	µg/L	0.6	28	%	

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Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Diazinon	Potable water	GC	0.1	100	µg/L	0.6	28	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Dieldrin	Potable water	GC	0.5	3	µg/L	0.6	28	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Endrin	Potable water	GC	0.1	5	µg/L	0.6	28	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Heptachlor	Potable water	GC	0.4	5	µg/L	0.6	28	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	HeptachlorEpoxide (beta)	Potable water	GC	0.2	5	µg/L	0.6	28	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Hexachlorobenzene	Potable water	GC	0.5	4	µg/L	0.6	28	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Hexachlorocyclopentadiene	Potable water	GC	2	30	µg/L	0.6	28	%	

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Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Lindane	Potable water	GC	0.2	5	µg/L	0.6	28	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Methoxychlor	Potable water	GC	10	100	µg/L	0.6	28	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Metolachlor	Potable water	GC	8	80	µg/L	0.6	28	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Metribuzin	Potable water	GC	2	60	µg/L	0.6	28	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Molinate (ordram)	Potable water	GC	5	50	µg/L	0.6	28	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Prometon	Potable water	GC	0.1	100	µg/L	0.6	28	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Propachlor	Potable water	GC	1	4	µg/L	0.6	28	%	

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Category	I		II Specified Property	III Matrix	IV Characterization procedures*	V			VI			VI Presentation* *
	Subcategory level 1	Subcategory level 2				Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Simazine	Potable water	GC	4	40	µg/L	0.6	28	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Trifluralin	Potable water	GC	1	5	µg/L	0.6	28	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Aldicarb	Potable water	HPLC	15	50	µg/L	0.6	10	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Aldicarb Sulfone	Potable water	HPLC	19	50	µg/L	0.6	10	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Aldicarb Sulfoxide	Potable water	HPLC	15	50	µg/L	0.6	10	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Baygon	Potable water	HPLC	30	140	µg/L	0.6	10	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Carbaryl	Potable water	HPLC	20	100	µg/L	0.6	10	%	

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Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Carbofuran	Potable water	HPLC	15	150	µg/L	0.6	10	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	3-Hydroxycarbofuran	Potable water	HPLC	15	75	µg/L	0.6	10	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Methiocarb	Potable water	HPLC	30	140	µg/L	0.6	10	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Methomyl	Potable water	HPLC	15	90	µg/L	0.6	10	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Oxamyl (vydate)	Potable water	HPLC	30	80	µg/L	0.6	10	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Chlordane (technical)	Potable water	GC	2	20	µg/L	0.6	28	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Toxapene (total)	Potable water	GC	3	20	µg/L	0.6	28	%	

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Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	1,2-Dibromo-3-chloropropane (DBCP)	Potable water	GC	0.1	2	µg/L	0.6	28	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	Ethylene Dibromide (EDB)	Potable water	GC	0.2	2	µg/L	0.6	28	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.3 Water	1,2,3-Trichloropropane	Potable water	GC	0.2	2	µg/L	0.6	28	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Aluminum	Soil	ICP/ICP-MS	1000	25000	mg/Kg	1	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Antimony	Soil	ICP/ICP-MS	80	300	mg/Kg	1	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Arsenic	Soil	ICP/ICP-MS	40	400	mg/Kg	1	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Barium	Soil	ICP/ICP-MS	100	1000	mg/Kg	1	20	%	

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						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Beryllium	Soil	ICP/ICP-MS	40	400	mg/Kg	1	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Boron	Soil	ICP/ICP-MS	80	200	mg/Kg	1	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Cadmium	Soil	ICP/ICP-MS	40	400	mg/Kg	1	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Calcium	Soil	ICP/ICP-MS	1500	25000	mg/Kg	1	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Chromium	Soil	ICP/ICP-MS	40	400	mg/Kg	1	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Cobalt	Soil	ICP/ICP-MS	40	400	mg/Kg	1	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Copper	Soil	ICP/ICP-MS	40	400	mg/Kg	1	20	%	

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A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Iron	Soil	ICP/ICP-MS	1000	50000	mg/Kg	1	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Lead	Soil	ICP/ICP-MS	40	400	mg/Kg	1	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Magnesium	Soil	ICP/ICP-MS	1200	25000	mg/Kg	1	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Manganese	Soil	ICP/ICP-MS	100	2000	mg/Kg	1	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Mercury	Soil	ICP/ICP-MS	1	35	mg/Kg	1	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Molybdenum	Soil	ICP/ICP-MS	30	300	mg/Kg	1	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Nickel	Soil	ICP/ICP-MS	40	500	mg/Kg	1	20	%	

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						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Potassium	Soil	ICP/ICP-MS	1400	25000	mg/Kg	1	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Selenium	Soil	ICP/ICP-MS	40	400	mg/Kg	1	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Silver	Soil	ICP/ICP-MS	20	100	mg/Kg	1	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Sodium	Soil	ICP/ICP-MS	150	15000	mg/Kg	1	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Strontium	Soil	ICP/ICP-MS	40	400	mg/Kg	1	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Thallium	Soil	ICP/ICP-MS	40	400	mg/Kg	1	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Tin	Soil	ICP/ICP-MS	75	250	mg/Kg	1	20	%	

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						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Titanium	Soil	ICP/ICP-MS	10	2000	mg/Kg	1	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Vanadium	Soil	ICP/ICP-MS	40	400	mg/Kg	1	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Zinc	Soil	ICP/ICP-MS	100	1000	mg/Kg	1	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Chromium VI	Soil	ICP	40	300	mg/Kg	1	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Antimony	Soil	ICP	0.2	20	mg/L	0.5	25	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Arsenic	Soil	ICP	0.5	40	mg/L	0.5	25	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Barium	Soil	ICP	0.5	50	mg/L	0.5	25	%	

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						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Beryllium	Soil	ICP	0.1	5	mg/L	0.5	25	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Cadmium	Soil	ICP	0.5	5	mg/L	0.5	25	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	chromium	Soil	ICP	0.5	50	mg/L	0.5	25	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Lead	Soil	ICP	0.5	50	mg/L	0.5	25	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Mercury	Soil	ICP	0.1	10	mg/L	0.5	25	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Nickel	Soil	ICP	0.5	20	mg/L	0.5	25	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Selenium	Soil	ICP	0.5	10	mg/L	0.5	25	%	

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						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Silver	Soil	ICP	0.2	40	mg/L	0.5	25	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Zinc	Soil	ICP	0.5	30	mg/L	0.5	25	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Aluminum	sludge	ICP/ICP-MS	1000	50000	mg/Kg	1	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Antimony	sludge	ICP/ICP-MS	80	300	mg/Kg	1	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Arsenic	sludge	ICP/ICP-MS	50	400	mg/Kg	1	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Barium	sludge	ICP/ICP-MS	250	2000	mg/Kg	1	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Beryllium	sludge	ICP/ICP-MS	30	200	mg/Kg	1	20	%	

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						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Cadmium	sludge	ICP/ICP-MS	40	300	mg/Kg	1	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Calcium	sludge	ICP/ICP-MS	5000	70000	mg/Kg	1	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Chromium	sludge	ICP/ICP-MS	40	300	mg/Kg	1	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Cobalt	sludge	ICP/ICP-MS	5	50	mg/Kg	1	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Copper	sludge	ICP/ICP-MS	40	1000	mg/Kg	1	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Iron	sludge	ICP/ICP-MS	1000	50000	mg/Kg	1	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Lead	sludge	ICP/ICP-MS	50	250	mg/Kg	1	20	%	

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						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Magnesium	sludge	ICP/ICP-MS	1200	25000	mg/Kg	1	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Manganese	sludge	ICP/ICP-MS	100	2000	mg/Kg	1	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Mercury	sludge	ICP/ICP-MS	1	50	mg/Kg	1	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Molybdenum	sludge	ICP/ICP-MS	5	250	mg/Kg	1	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Nickel	sludge	ICP/ICP-MS	40	250	mg/Kg	1	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Potassium	sludge	ICP/ICP-MS	1400	25000	mg/Kg	1	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Selenium	sludge	ICP/ICP-MS	50	250	mg/Kg	1	20	%	

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						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Silver	sludge	ICP/ICP-MS	50	250	mg/Kg	1	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Sodium	sludge	ICP/ICP-MS	150	15000	mg/Kg	1	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Strontium	sludge	ICP/ICP-MS	200	2000	mg/Kg	1	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Thallium	sludge	ICP/ICP-MS	50	250	mg/Kg	1	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Vanadium	sludge	ICP/ICP-MS	5	250	mg/Kg	1	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Zinc	sludge	ICP/ICP-MS	70	1500	mg/Kg	1	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Bromide	soil	IC	10	200	mg/Kg	1	19	%	

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						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Chloride	soil	IC	25	2000	mg/Kg	1	19	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Fluoride	soil	IC	25	500	mg/Kg	1	19	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Nitrate as N	soil	IC	25	500	mg/Kg	1	19	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Phosphate as P	soil	IC	25	500	mg/Kg	1	19	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Sulfate	soil	IC	25	2000	mg/Kg	1	19	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Total Cyanide	soil	Spectrometry	5	500	mg/Kg	0.2	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Ammonia as N	soil	electrode	100	5000	mg/Kg	0.5	20	%	

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I			II	III	IV	V			VI			VI
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Total Kjeldahl Nitrogen	soil	electrode	100	5000	mg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Total organic Carbon	soil	Titration	1000	15000	mg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Total Phosphorus	soil	ICP	100	5000	mg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Corrosivity pH	soil	meter	2	12	pH	0.5	10	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Flash point	soil	Pensky- Martens cup	100	200	°F	0.5	10	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Acetone	soil	GC	160	400	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Acetonitrile	soil	GC	200	1000	µg/Kg	0.5	20	%	

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Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Acrolein	soil	GC	20	200	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Benzene	soil	GC	20	200	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Bromobenzene	soil	GC	40	200	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Bromodichloromethane	soil	GC	20	200	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Bromoform	soil	GC	20	200	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Bromomethane	soil	GC	80	200	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	2-Butanone (MEK)	soil	GC	160	400	µg/Kg	0.5	20	%	

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Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	tert-butyl methyl ether (MTBE)	soil	GC	20	200	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Carbon disulfide	soil	GC	20	200	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Carbon tetrachloride	soil	GC	20	200	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Chlorobenzene	soil	GC	20	200	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Chlorodibromomethane	soil	GC	20	200	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Chloroethane	soil	GC	80	200	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	2-Chloroethyl vinyl ether	soil	GC	20	200	µg/Kg	0.5	20	%	

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Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Chloroform	soil	GC	20	200	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Chloromethane	soil	GC	80	200	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	1,2-Dibromo-3-chloropropane (DBCP)	soil	GC	40	200	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	1,2-Dibromoethane (EDB)	soil	GC	40	200	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Dibromomethane	soil	GC	20	200	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	1,2-Dichlorobenzene	soil	GC	20	200	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	1,3-Dichlorobenzene	soil	GC	20	200	µg/Kg	0.5	20	%	

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Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	1,4-Dichlorobenzene	soil	GC	20	200	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Dichlorodifluoromethane	soil	GC	80	200	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	1,1-Dichloroethane	soil	GC	20	200	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	1,2-Dichloroethane	soil	GC	20	200	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	1,1-Dichloroethylene	soil	GC	40	200	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	cis-1,2-Dichloroethylene	soil	GC	40	200	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	trans-1,2-Dichloroethylene	soil	GC	40	200	µg/Kg	0.5	20	%	

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	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	*
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	1,2-Dichloropropane	soil	GC	20	200	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	cis-1,3-Dichloropylene	soil	GC	40	200	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	trans-1,3-Dichloropylene	soil	GC	40	200	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Ethylbenzene	soil	GC	20	200	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	2-Hexanone	soil	GC	160	400	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Isopropyl benzene	soil	GC	40	200	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Methylene chloride	soil	GC	20	200	µg/Kg	0.5	20	%	

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Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	4-Methyl-2-pentanone (MIBK)	soil	GC	80	200	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Naphthalene	soil	GC	40	200	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Styrene	soil	GC	40	200	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	1,1,1,2-Tetrachloroethane	soil	GC	20	200	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	1,1,2,2-Tetrachloroethane	soil	GC	20	200	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Tetrachloroethane	soil	GC	20	200	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	toluene	soil	GC	20	200	µg/Kg	0.5	20	%	

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Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	1,2,4-Trichlorobenzene	soil	GC	40	200	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	1,1,1-Trichloroethane	soil	GC	20	200	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	1,1,2-Trichloroethane	soil	GC	20	200	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Trichloroethylene	soil	GC	20	200	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Trichlorofluoromethane (Freon 11)	soil	GC	80	200	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	1,1,3-Trichloropropane	soil	GC	40	200	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Vinyl acetate	soil	GC	20	200	µg/Kg	0.5	20	%	

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Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Vinyl chloride	soil	GC	80	200	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Xylenes, total	soil	GC	40	200	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Acetone	soil	GC	4000	20000	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Acetonitrile	soil	GC	1000	15000	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Acrolein	soil	GC	1000	15000	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Benzene	soil	GC	1000	10000	µg/Kg	0.5	20	%	

I		II	III	IV	V			VI			VI	
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Bromobenzene	soil	GC	2000	10000	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Bromodichloromethane	soil	GC	1000	10000	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Bromoform	soil	GC	1000	10000	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Bromomethane	soil	GC	2000	10000	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	2-Butanone (MEK)	soil	GC	4000	20000	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	tert-butyl methyl ether (MTBE)	soil	GC	2000	10000	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Carbon disulfide	soil	GC	1000	15000	µg/Kg	0.5	20	%	

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I		II	III	IV	V			VI			VI	
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation* *
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Carbon tetrachloride	soil	GC	1000	10000	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Chlorobenzene	soil	GC	1000	10000	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Chlorodibromomethane	soil	GC	1000	10000	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Chloroethane	soil	GC	2000	10000	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	2-Chloroethylvinyl ether	soil	GC	1000	15000	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Chloroform	soil	GC	1000	10000	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Chloromethane	soil	GC	2000	10000	µg/Kg	0.5	20	%	

Scope of accreditation for the production of certified reference materials

I			II	III	IV	V			VI			VI
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation* *
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	1,2-Dibromo-3-chloropropane (DBCP)	soil	GC	2000	10000	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	1,2-Dibromoethane (EDB)	soil	GC	2000	10000	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Dibromomethane	soil	GC	2000	10000	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	1,2-Dichlorobenzene	soil	GC	1000	10000	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	1,3-Dichlorobenzene	soil	GC	1000	10000	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	1,4-Dichlorobenzene	soil	GC	1000	10000	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Dichlorodifluoromethane	soil	GC	2000	10000	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	1,1-Dichloroethane	soil	GC	1000	10000	µg/Kg	0.5	20	%	

Scope of accreditation for the production of certified reference materials

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Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation* *
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	1,2-Dichloroethane	soil	GC	1500	10000	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	1,1-Dichloroethylene	soil	GC	2000	10000	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	cis-1,2-Dichloroethylene	soil	GC	2000	10000	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	trans-1,2-Dichloroethylene	soil	GC	2000	10000	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	1,2-Dichloropropane	soil	GC	2000	10000	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	cis-1,3-Dichloropropylene	soil	GC	2000	10000	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	trans-1,2-Dichloropropylene	soil	GC	2000	10000	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Ethylbenzene	soil	GC	1000	10000	µg/Kg	0.5	20	%	

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Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation* *
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	2-Hexanone	soil	GC	8000	20000	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Hexachlorobuta diene	soil	GC	1500	15000	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Hexachloroethane	soil	GC	1500	15000	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Isopropyl benzene	soil	GC	2000	10000	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Methylene chloride	soil	GC	1000	10000	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	4-Methyl-2-pentanone (MIBK)	soil	GC	4000	20000	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Naphthalene	soil	GC	2000	10000	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Nitrobenzene	soil	GC	1500	15000	µg/Kg	0.5	20	%	

I			II	III	IV	V			VI			VI
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation* *
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Styrene	soil	GC	2000	10000	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	1,1,1,2-Tetrachloroethane	soil	GC	1000	10000	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	1,1,2,2-Tetrachloroethane	soil	GC	1500	10000	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Tetrachloroethylene	soil	GC	1000	10000	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Toluene	soil	GC	1000	10000	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	1,2,4-Trichlorobenzene	soil	GC	2000	10000	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	1,1,1-Trichloroethane	soil	GC	1000	10000	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	1,1,2-Trichloroethane	soil	GC	1000	10000	µg/Kg	0.5	20	%	

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I			II	III	IV	V			VI			VI
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation* *
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Trichloroethene	soil	GC	1000	10000	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Trichlorofluoromethane (Freon 11)	soil	GC	2000	10000	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	1,2,3-Trichloropropane	soil	GC	1500	10000	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Vinyl acetate	soil	GC	1000	15000	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Vinyl chloride	soil	GC	2000	10000	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Xylenes, total	soil	GC	2000	20000	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	4-Amino-2,6-Dinitrotoluene	soil	HPLC	1500	15000	µg/Kg	0.5	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	2-Amino-4,6-dinitrotoluene	soil	HPLC	1500	15000	µg/Kg	0.5	30	%	

I		II	III	IV	V			VI			VI	
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	1,3-Dinitrobenzene	soil	HPLC	1500	15000	µg/Kg	0.5	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	2,4-Dinitrotoluene	soil	HPLC	1500	15000	µg/Kg	0.5	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	2,6-Dinitrotoluene	soil	HPLC	1500	15000	µg/Kg	0.5	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	HMX	soil	HPLC	1500	15000	µg/Kg	0.5	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Nitrobenzene	soil	HPLC	1500	15000	µg/Kg	0.5	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	2-Nitrotoluene	soil	HPLC	1500	15000	µg/Kg	0.5	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	3-Nitrotoluene	soil	HPLC	1500	15000	µg/Kg	0.5	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	4-Nitrotoluene	soil	HPLC	1500	15000	µg/Kg	0.5	30	%	

Scope of accreditation for the production of certified reference materials

I			II	III	IV	V			VI			VI
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation* *
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	RDX	soil	HPLC	1500	15000	µg/Kg	0.5	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Tetryl	soil	HPLC	1500	15000	µg/Kg	0.5	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	1,3,5- Trinitrobenzene	soil	HPLC	1500	15000	µg/Kg	0.5	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	2,4,6- Trinitrotoluene	soil	HPLC	1500	15000	µg/Kg	0.5	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Acenaphthene	soil	HPLC	150	1000	µg/Kg	0.5	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Acenaphthylene	soil	HPLC	150	1000	µg/Kg	0.5	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Anthracene	soil	HPLC	100	1000	µg/Kg	0.5	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Benzo(a)anthracene	soil	HPLC	50	500	µg/Kg	0.5	30	%	

Scope of accreditation for the production of certified reference materials

I		II	III	IV	V			VI			VI	
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation* *
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Benzo(b)fluoranthene	soil	HPLC	50	500	µg/Kg	0.5	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Benzo(k)fluoranthene	soil	HPLC	50	500	µg/Kg	0.5	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Benzo(g,h,i)perylene	soil	HPLC	100	1000	µg/Kg	0.5	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Benzo(a)pyrene	soil	HPLC	50	500	µg/Kg	0.5	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Chrysene	soil	HPLC	50	500	µg/Kg	0.5	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Dibenz(a,h)anthracene	soil	HPLC	50	500	µg/Kg	0.5	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Fluoranthene	soil	HPLC	100	1000	µg/Kg	0.5	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Fluorene	soil	HPLC	50	500	µg/Kg	0.5	30	%	

Scope of accreditation for the production of certified reference materials

I		II	III	IV	V			VI			VI	
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation* *
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Indenol(1,2,3cd)pyrene	soil	HPLC	50	500	µg/Kg	0.5	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Naphthalene	soil	HPLC	150	1000	µg/Kg	0.5	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Phenanthrene	soil	HPLC	100	1000	µg/Kg	0.5	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Pyrene	soil	HPLC	50	500	µg/Kg	0.5	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Acenaphthene	soil	Base/Neutrals by GC and Acids by HPLC	1000	12000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Acenaphthylene	soil	Base/Neutrals by GC and Acids by HPLC	1000	12000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Aniline	soil	Base/Neutrals by GC and Acids by HPLC	500	15000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Anthracene	soil	Base/Neutrals by GC and Acids by HPLC	1000	12000	µg/Kg	0.6	15	%	

Scope of accreditation for the production of certified reference materials

I		II	III	IV	V			VI			VI	
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation* *
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Benzoic acid	soil	Base/Neutrals by GC and Acids by HPLC	500	15000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Benzo(a)anthracene	soil	Base/Neutrals by GC and Acids by HPLC	1000	12000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Benzo(b)fluoranthene	soil	Base/Neutrals by GC and Acids by HPLC	1000	12000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Benzo(k)fluoranthene	soil	Base/Neutrals by GC and Acids by HPLC	1000	12000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Benzo(g,h,i)perylene	soil	Base/Neutrals by GC and Acids by HPLC	1000	12000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Benzo(a)pyrene	soil	Base/Neutrals by GC and Acids by HPLC	1000	12000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Benzyl alcohol	soil	Base/Neutrals by GC and Acids by HPLC	500	15000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Bis(2-chloroethyl)ether	soil	Base/Neutrals by GC and Acids by HPLC	1500	15000	µg/Kg	0.6	15	%	

I		II	III	IV	V			VI			VI	
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation* *
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Bis(2-chloroisopropyl) ether	soil	Base/Neutrals by GC and Acids by HPLC	1500	15000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Bis(2-ethylhexyl) phthalate	soil	Base/Neutrals by GC and Acids by HPLC	1500	15000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	4-Bromophenylphenylether	soil	Base/Neutrals by GC and Acids by HPLC	1500	15000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Butylbenzylphthalate	soil	Base/Neutrals by GC and Acids by HPLC	1500	15000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Carbazole	soil	Base/Neutrals by GC and Acids by HPLC	500	15000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	4-Chloroaniline	soil	Base/Neutrals by GC and Acids by HPLC	500	15000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	4-Chloro-3-methylphenol	soil	Base/Neutrals by GC and Acids by HPLC	1500	15000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	1-Chloronaphthalene	soil	Base/Neutrals by GC and Acids by HPLC	500	15000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	2-Chloronaphthalene	soil	Base/Neutrals by GC and Acids by HPLC	1000	10000	µg/Kg	0.6	15	%	

Scope of accreditation for the production of certified reference materials

I		II	III	IV	V			VI			VI	
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation* *
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	2-Chlorophenol	soil	Base/Neutrals by GC and Acids by HPLC	1500	15000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	4-Chlorophenylphenylether	soil	Base/Neutrals by GC and Acids by HPLC	1500	15000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Chrysene	soil	Base/Neutrals by GC and Acids by HPLC	1000	12000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Dibenz(a,h)anthracene	soil	Base/Neutrals by GC and Acids by HPLC	1000	12000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Dibenzofuran	soil	Base/Neutrals by GC and Acids by HPLC	1500	15000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Di-n-butylphthalate	soil	Base/Neutrals by GC and Acids by HPLC	1500	15000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	1,2-Dichlorobenzene	soil	Base/Neutrals by GC and Acids by HPLC	1500	15000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	1,3-Dichlorobenzene	soil	Base/Neutrals by GC and Acids by HPLC	1500	15000	µg/Kg	0.6	15	%	

Scope of accreditation for the production of certified reference materials

I			II	III	IV	V			VI			VI
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation* *
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	1,4-Dichlorobenzene	soil	Base/Neutrals by GC and Acids by HPLC	1500	15000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	2,4-Dichlorophenol	soil	Base/Neutrals by GC and Acids by HPLC	1500	15000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	2,6-Dichlorophenol	soil	Base/Neutrals by GC and Acids by HPLC	1500	15000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Diethylphthalate	soil	Base/Neutrals by GC and Acids by HPLC	1500	15000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	2,4-Dimethylphenol	soil	Base/Neutrals by GC and Acids by HPLC	3000	15000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Dimethylphthalate	soil	Base/Neutrals by GC and Acids by HPLC	1500	15000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	2,4-Dinitrophenol	soil	Base/Neutrals by GC and Acids by HPLC	3000	15000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	2,4-Dinitrotoluene	soil	Base/Neutrals by GC and Acids by HPLC	1500	15000	µg/Kg	0.6	15	%	

Scope of accreditation for the production of certified reference materials

I		II	III	IV	V			VI			VI	
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation* *
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	2,6-Dinitrotoluen e	soil	Base/Neutrals by GC and Acids by HPLC	1500	15000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Di-n-octylphthalat e	soil	Base/Neutrals by GC and Acids by HPLC	1500	15000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Fluoranthene	soil	Base/Neutrals by GC and Acids by HPLC	1000	12000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Fluorene	soil	Base/Neutrals by GC and Acids by HPLC	1000	12000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Hexachlorob en zene	soil	Base/Neutrals by GC and Acids by HPLC	1500	15000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Hexachlorob uta diene	soil	Base/Neutrals by GC and Acids by HPLC	1500	15000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Hexachloroc ycl opentadiene	soil	Base/Neutrals by GC and Acids by HPLC	1500	15000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Hexachloroet ha ne	soil	Base/Neutrals by GC and Acids by HPLC	1500	15000	µg/Kg	0.6	15	%	

Scope of accreditation for the production of certified reference materials

I		II	III	IV	V			VI			VI	
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation* *
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Indenol(1,2,3cd)pyrene	soil	Base/Neutrals by GC and Acids by HPLC	1000	12000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Isophorone	soil	Base/Neutrals by GC and Acids by HPLC	1500	15000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	2-methyl-4,6-Dinitrophenol	soil	Base/Neutrals by GC and Acids by HPLC	3000	15000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	2-Methylnaphtalene	soil	Base/Neutrals by GC and Acids by HPLC	1000	12000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	2-Methylphenol	soil	Base/Neutrals by GC and Acids by HPLC	3000	15000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	4-Methylphenol	soil	Base/Neutrals by GC and Acids by HPLC	3000	15000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Naphthalene	soil	Base/Neutrals by GC and Acids by HPLC	1000	12000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	2-Nitroaniline	soil	Base/Neutrals by GC and Acids by HPLC	500	15000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	3-Nitroaniline	soil	Base/Neutrals by GC and Acids by HPLC	500	15000	µg/Kg	0.6	15	%	
I		II	III	IV	V			VI			VI	

Scope of accreditation for the production of certified reference materials

Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	4-Nitroaniline	soil	Base/Neutrals by GC and Acids by HPLC	500	15000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Nitrobenzene	soil	Base/Neutrals by GC and Acids by HPLC	1500	15000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	2-Nitrophenol	soil	Base/Neutrals by GC and Acids by HPLC	3000	15000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	4-Nitrophenol	soil	Base/Neutrals by GC and Acids by HPLC	3000	15000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	N-Nitrosodimethylamine	soil	Base/Neutrals by GC and Acids by HPLC	1500	15000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	N-Nitrosodiphenylamine	soil	Base/Neutrals by GC and Acids by HPLC	1500	15000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	N-Nitrosodipropylamine	soil	Base/Neutrals by GC and Acids by HPLC	1500	15000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Phentachlorophenol	soil	Base/Neutrals by GC and Acids by HPLC	3000	15000	µg/Kg	0.6	15	%	

I		II	III	IV	V			VI			VI	
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Phenanthrene	soil	Base/Neutrals by GC and Acids by HPLC	1000	12000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Phenol	soil	Base/Neutrals by GC and Acids by HPLC	1500	15000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Pyrene	soil	Base/Neutrals by GC and Acids by HPLC	1000	12000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Pyridine	soil	Base/Neutrals by GC and Acids by HPLC	500	15000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	1,2,4-Trichlorobenzene	soil	Base/Neutrals by GC and Acids by HPLC	1500	15000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	2,4,5-Trichlorophenol	soil	Base/Neutrals by GC and Acids by HPLC	1500	15000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	2,4,6-Trichlorophenol	soil	Base/Neutrals by GC and Acids by HPLC	1500	15000	µg/Kg	0.6	15	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Aldrin	soil	GC	50	500	µg/Kg	0.6	19	%	

Scope of accreditation for the production of certified reference materials

I			II	III	IV	V			VI			VI
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation* *
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	alpha-BHC	soil	GC	50	500	µg/Kg	0.6	19	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	beta-BHC	soil	GC	50	500	µg/Kg	0.6	19	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	delta-BHC	soil	GC	50	500	µg/Kg	0.6	19	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	gamma-BHC(Lindane)	soil	GC	50	500	µg/Kg	0.6	19	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	alpha-Chlordane	soil	GC	50	500	µg/Kg	0.6	19	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	gamma-Chlordane	soil	GC	50	500	µg/Kg	0.6	19	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	4,4-DDD	soil	GC	50	500	µg/Kg	0.6	19	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	4,4-DDE	soil	GC	50	500	µg/Kg	0.6	19	%	

Scope of accreditation for the production of certified reference materials

I			II	III	IV	V			VI			VI
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation* *
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	4,4'-DDT	soil	GC	50	500	µg/Kg	0.6	19	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Dieldrin	soil	GC	50	500	µg/Kg	0.6	19	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Endosulfan I	soil	GC	50	500	µg/Kg	0.6	19	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Endosulfan II	soil	GC	50	500	µg/Kg	0.6	19	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Endosulfan sulfate	soil	GC	50	500	µg/Kg	0.6	19	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Endrin	soil	GC	50	500	µg/Kg	0.6	19	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Endrin aldehyde	soil	GC	50	500	µg/Kg	0.6	19	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Endrin ketone	soil	GC	50	500	µg/Kg	0.6	19	%	

Scope of accreditation for the production of certified reference materials

I			II	III	IV	V			VI			VI
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation* *
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Heptachlor	soil	GC	50	500	µg/Kg	0.6	19	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Heptachlor epoxide	soil	GC	50	500	µg/Kg	0.6	19	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Methoxychlor	soil	GC	50	500	µg/Kg	0.6	19	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Chlordane(total)	soil	GC	200	1000	µg/Kg	0.6	19	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Toxaphene	soil	GC	200	2000	µg/Kg	0.6	19	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Aldicarb	soil	HPLC	250	2500	µg/Kg	0.6	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Aldicarb sulfone	soil	HPLC	250	2500	µg/Kg	0.6	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Aldicarb sulfoxide	soil	HPLC	250	2500	µg/Kg	0.6	30	%	

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I			II	III	IV	V			VI			VI
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation* *
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Carbaryl	soil	HPLC	250	2500	µg/Kg	0.6	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Carbofuran	soil	HPLC	250	2500	µg/Kg	0.6	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Dixacarb	soil	HPLC	250	2500	µg/Kg	0.6	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Diuron	soil	HPLC	250	2500	µg/Kg	0.6	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	3-Hydroxycarbofuran	soil	HPLC	250	2500	µg/Kg	0.6	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Methiocarb	soil	HPLC	250	2500	µg/Kg	0.6	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Methomyl	soil	HPLC	250	2500	µg/Kg	0.6	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Oxamyl	soil	HPLC	250	2500	µg/Kg	0.6	30	%	

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I			II	III	IV	V			VI			VI
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation* *
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Promecarb	soil	HPLC	250	2500	µg/Kg	0.6	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Propham	soil	HPLC	250	2500	µg/Kg	0.6	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Propoxur (Baygon)	soil	HPLC	250	2500	µg/Kg	0.6	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Azinphos-methyl (Guthion)	soil	HPLC	100	1000	µg/Kg	0.6	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Chlorpyrifos	soil	HPLC	100	1000	µg/Kg	0.6	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Demeton-O	soil	HPLC	100	1000	µg/Kg	0.6	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Demeton-S	soil	HPLC	100	1000	µg/Kg	0.6	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Diazinon	soil	HPLC	100	1000	µg/Kg	0.6	20	%	

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I			II	III	IV	V			VI			VI
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation* *
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Dichlorvos(DV P)	soil	HPLC	100	1000	µg/Kg	0.6	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Disulfoton	soil	HPLC	100	1000	µg/Kg	0.6	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Malathion	soil	HPLC	100	1000	µg/Kg	0.6	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Parathion, ethyl	soil	HPLC	100	1000	µg/Kg	0.6	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Parathion, methyl	soil	HPLC	100	1000	µg/Kg	0.6	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Phorate	soil	HPLC	100	1000	µg/Kg	0.6	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Ronnel	soil	HPLC	100	1000	µg/Kg	0.6	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Stirophos(Tetra chlorovinphos)	soil	HPLC	100	1000	µg/Kg	0.6	20	%	

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I			II	III	IV	V			VI			VI
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation* *
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Acifluorfen	soil	HPLC	100	1000	µg/Kg	0.5	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Bentazon	soil	HPLC	100	1000	µg/Kg	0.5	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Chloramben	soil	HPLC	100	1000	µg/Kg	0.5	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	2,4-D	soil	HPLC	100	1000	µg/Kg	0.5	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	2,4-DB	soil	HPLC	100	1000	µg/Kg	0.5	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Dalapon	soil	HPLC	100	2500	µg/Kg	0.5	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Dicamba	soil	HPLC	100	1000	µg/Kg	0.5	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	3,5-Dichlorobenzoic acid	soil	HPLC	100	1000	µg/Kg	0.5	30	%	

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I			II	III	IV	V			VI			VI
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation* *
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Dichlorprop	soil	HPLC	100	1000	µg/Kg	0.5	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Dinoseb	soil	HPLC	100	1000	µg/Kg	0.5	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	MCPA	soil	HPLC	1000	10000	µg/Kg	0.5	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	MCPP	soil	HPLC	250	10000	µg/Kg	0.5	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	4-Nitrophenol	soil	HPLC	100	1000	µg/Kg	0.5	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Pentachlorophenol	soil	HPLC	100	1000	µg/Kg	0.5	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Picloram	soil	HPLC	100	1000	µg/Kg	0.5	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	2,4,5-T	soil	HPLC	100	1000	µg/Kg	0.5	30	%	

I		II	III	IV	V			VI			VI	
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	2,4,5-TP (Silvex)	soil	HPLC	100	1000	µg/Kg	0.5	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Aroclor 1016	soil	GC	1	50	mg/Kg	0.6	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Aroclor 1221	soil	GC	1	50	mg/Kg	0.6	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Aroclor 1232	soil	GC	1	50	mg/Kg	0.6	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Aroclor 1242	soil	GC	1	50	mg/Kg	0.6	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Aroclor 1248	soil	GC	1	50	mg/Kg	0.6	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Aroclor 1254	soil	GC	1	50	mg/Kg	0.6	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Aroclor 1260	soil	GC	1	50	mg/Kg	0.6	20	%	

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I			II	III	IV	V			VI			VI
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation* *
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Aroclor 1016	oil	GC	10	50	mg/Kg	0.6	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Aroclor 1221	oil	GC	10	50	mg/Kg	0.6	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Aroclor 1232	oil	GC	10	50	mg/Kg	0.6	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Aroclor 1242	oil	GC	10	50	mg/Kg	0.6	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Aroclor 1248	oil	GC	10	50	mg/Kg	0.6	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Aroclor 1254	oil	GC	10	50	mg/Kg	0.6	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Aroclor 1260	oil	GC	10	50	mg/Kg	0.6	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Benzene	soil	GC	20	200	µg/Kg	0.5	20	%	

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I			II	III	IV	V			VI			VI
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation* *
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Ethylbenzene	soil	GC	20	200	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Toluene	soil	GC	20	200	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Xylenes, total	soil	GC	40	400	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Metyl-tert-butylether(MTB E)	soil	GC	20	200	µg/Kg	0.5	20	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Gasoline Range Organics (GRO)	soil	GC	100	2000	mg/Kg	0.5	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Benzene in GRO	soil	GC	0.5	400	mg/Kg	0.5	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Ethylbenzene in GRO	soil	GC	1	400	mg/Kg	0.5	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Toluene in GRO	soil	GC	1	400	mg/Kg	0.5	30	%	

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I		II	III	IV	V			VI			VI	
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation* *
						from	to	Units	from	to	Units	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Xylenes, total, in GRO	soil	GC	1	400	mg/Kg	0.5	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	Diesel Range Organics	soil	GC	300	3000	mg/Kg	0.5	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	non-Polar extractable Material (TPH)	soil	Gravimetric	300	3000	mg/Kg	0.5	30	%	
A. Chemical Composition	A4. Environmental Reference Materials	A4.1 Soil and mud	n-Hexane Extractable Materials (O&G)	soil	Gravimetric	300	3000	mg/Kg	0.5	30	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Antimony	Impinger Sol'n	ICP/ICP-MS	0.1	10	µg/mL	0.4	12	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Arsenic	Impinger Sol'n	ICP/ICP-MS	0.1	10	µg/mL	0.4	12	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Barium	Impinger Sol'n	ICP/ICP-MS	0.1	10	µg/mL	0.4	12	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Beryllium	Impinger Sol'n	ICP/ICP-MS	0.1	10	µg/mL	0.4	12	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Cadmium	Impinger Sol'n	ICP/ICP-MS	0.1	10	µg/mL	0.4	12	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Chromium	Impinger Sol'n	ICP/ICP-MS	0.1	10	µg/mL	0.4	12	%	

Category	I		II	III	IV	V			VI			VI
	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Cobalt	Impinger Sol'n	ICP/ICP-MS	0.1	10	µg/mL	0.4	12	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Copper	Impinger Sol'n	ICP/ICP-MS	0.1	10	µg/mL	0.4	12	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Lead	Impinger Sol'n	ICP/ICP-MS	0.1	10	µg/mL	0.4	12	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Manganese	Impinger Sol'n	ICP/ICP-MS	0.1	10	µg/mL	0.4	12	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Nickel	Impinger Sol'n	ICP/ICP-MS	0.1	10	µg/mL	0.4	12	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Phosphorus	Impinger Sol'n	ICP/ICP-MS	0.1	10	µg/mL	0.4	12	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Selenium	Impinger Sol'n	ICP/ICP-MS	0.1	10	µg/mL	0.4	12	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Silver	Impinger Sol'n	ICP/ICP-MS	0.1	10	µg/mL	0.4	12	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Thallium	Impinger Sol'n	ICP/ICP-MS	0.1	10	µg/mL	0.4	12	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Zinc	Impinger Sol'n	ICP/ICP-MS	0.1	10	µg/mL	0.4	12	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Mercury	Impinger Sol'n	CVAA	1	30	ng/mL	0.4	12	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Lead	Impinger Sol'n	ICP/ICP-MS	0.1	3	µg/mL	0.4	12	%	

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I			II	III	IV	V			VI			VI
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation* *
						from	to	Units	from	to	Units	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Hexavalent Chromium	Impinger Sol'n	Spectrometry	50	800	µg/L	0.4	12	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Bromine	Impinger Sol'n	IC	5	100	mg/L	0.8	8	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Chlorine	Impinger Sol'n	IC	5	100	mg/L	0.8	8	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Hydrogen Fluoride	Impinger Sol'n	IC	5	100	mg/L	0.8	8	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Hydrogen Chloride	Impinger Sol'n	IC	5	100	mg/L	0.8	8	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Hydrogen Bromide	Impinger Sol'n	IC	5	100	mg/L	0.8	8	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Total Halogens	Impinger Sol'n	IC	10	200	mg/L	0.8	8	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Total Halide	Impinger Sol'n	IC	15	300	mg/L	0.8	8	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Fluoride	Impinger Sol'n	IC	1	50	µg/mL	0.8	8	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Nitrogen Oxide	Impinger Sol'n	IC	2	400	mg/dscm	0.8	8	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Sulfur Dioxide	Impinger Sol'n	IC	200	2400	mg/dscm	0.8	8	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Sulfuric Acid	Impinger Sol'n	IC	1	120	mg/dscm	0.8	8	%	

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I			II	III	IV	V			VI			VI
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation* *
						from	to	Units	from	to	Units	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Sulfur Dioxide	Impinger Sol'n	IC	1	120	mg/dscm	0.8	8	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Ammonia	Impinger Sol'n	Electrode-ISE	1	50	mg/L	0.8	8	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Particulate matter	Impinger Sol'n	Gravimetric	140	675	mg/L	0.2	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Antimony	filter paper	ICP/ICP-MS	30	1200	µg/filter	0.8	15	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Arsenic	filter paper	ICP/ICP-MS	30	1200	µg/filter	0.8	15	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Barium	filter paper	ICP/ICP-MS	30	1200	µg/filter	0.8	15	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Beryllium	filter paper	ICP/ICP-MS	30	1200	µg/filter	0.8	15	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Cadmium	filter paper	ICP/ICP-MS	30	1200	µg/filter	0.8	15	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Chromium	filter paper	ICP/ICP-MS	30	1200	µg/filter	0.8	15	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Cobalt	filter paper	ICP/ICP-MS	30	1200	µg/filter	0.8	15	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Cooper	filter paper	ICP/ICP-MS	30	1200	µg/filter	0.8	15	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Lead	filter paper	ICP/ICP-MS	30	1200	µg/filter	0.8	15	%	

Scope of accreditation for the production of certified reference materials

I			II	III	IV	V			VI			VI
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation* *
						from	to	Units	from	to	Units	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Manganese	filter paper	ICP/ICP-MS	30	1200	µg/filter	0.8	15	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Nickel	filter paper	ICP/ICP-MS	30	1200	µg/filter	0.8	15	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Phosphorus	filter paper	ICP/ICP-MS	30	1200	µg/filter	0.8	15	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Selenium	filter paper	ICP/ICP-MS	30	1200	µg/filter	0.8	15	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Silver	filter paper	ICP/ICP-MS	30	1200	µg/filter	0.8	15	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Thallium	filter paper	ICP/ICP-MS	30	1200	µg/filter	0.8	15	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Zinc	filter paper	ICP/ICP-MS	30	1200	µg/filter	0.8	15	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Mercury	filter paper	CVAA	0.3	9	µg/filter	0.8	15	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	lead	filter paper	ICP-MS	25	750	µg/filter	0.8	15	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Total Chromium	filter paper	ICP	1	20	µg/filter	0.8	15	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Hexavalent Chromium	filter paper	ICP	1	20	µg/filter	0.8	15	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Particulate matter	filter paper	Gravimetric	50	600	mg/filter	0.2	5	%	

Scope of accreditation for the production of certified reference materials

I			II	III	IV	V			VI			VI
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	Acetone	sorbent	GC	50	2000	ng/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	Acetonitrile	sorbent	GC	50	2000	ng/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	Acrolein	sorbent	GC	50	2000	ng/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	Acrylonitrile	sorbent	GC	50	2000	ng/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	Benzene	sorbent	GC	50	2000	ng/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	Bromodichloromethane	sorbent	GC	50	2000	ng/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	Bromoform	sorbent	GC	50	2000	ng/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	Bromomethane	sorbent	GC	50	2000	ng/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	2-Butanone (MEK)	sorbent	GC	50	2000	ng/sample	0.5	10	%	

Scope of accreditation for the production of certified reference materials

I			II	III	IV	V			VI			VI
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation* *
						from	to	Units	from	to	Units	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	Carbon Disulfide	sorbent	GC	50	2000	ng/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	Carbontetra chloride	sorbent	GC	50	2000	ng/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	Chlorobenzene	sorbent	GC	50	2000	ng/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	Chlorodibromomethane	sorbent	GC	50	2000	ng/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	Chloroethane	sorbent	GC	50	2000	ng/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	2-Chloroethylvinylether	sorbent	GC	50	2000	ng/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	Chloroform	sorbent	GC	50	2000	ng/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	Chloromethane	sorbent	GC	50	2000	ng/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	1,2-Dibromomethane(EDB)	sorbent	GC	50	2000	ng/sample	0.5	10	%	

Scope of accreditation for the production of certified reference materials

I			II	III	IV	V			VI			VI
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation* *
						from	to	Units	from	to	Units	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	Dibromomet hane	sorbent	GC	50	2000	ng/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	1,2- Dichloroben zene	sorbent	GC	50	2000	ng/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	1,3- Dichloroben zene	sorbent	GC	50	2000	ng/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	1,4- Dichloroben zene	sorbent	GC	50	2000	ng/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	Dichlorodiflu oromethane	sorbent	GC	50	2000	ng/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	1,1- Dichloroeth ane	sorbent	GC	50	2000	ng/sample	0.5	10	%	

Scope of accreditation for the production of certified reference materials

I			II	III	IV	V			VI			VI
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation* *
						from	to	Units	from	to	Units	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	1,2-Dichloroethane	sorbent	GC	50	2000	ng/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	1,1-Dichloroethene	sorbent	GC	50	2000	ng/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	cis-1,2-Dichloroethene	sorbent	GC	50	2000	ng/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	trans-1,2-Dichloroethene	sorbent	GC	50	2000	ng/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	1,2-Dichloropropane	sorbent	GC	50	2000	ng/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	cis-1,3-Dichloropropane	sorbent	GC	50	2000	ng/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	trans-1,2-Dichloropropane	sorbent	GC	50	2000	ng/sample	0.5	10	%	

Scope of accreditation for the production of certified reference materials

I			II	III	IV	V			VI			VI
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation* *
						from	to	Units	from	to	Units	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	Ethylbenzene	sorbent	GC	50	2000	ng/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	Hexachlorbutadiene	sorbent	GC	50	2000	ng/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	2-Hexanone	sorbent	GC	50	2000	ng/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	Methylene Chloride	sorbent	GC	50	2000	ng/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	4-Methyl-2-pentanone (MIBK)	sorbent	GC	50	2000	ng/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	Methyl-tert-butylether (MTBE)	sorbent	GC	50	2000	ng/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	Naphthalene	sorbent	GC	50	2000	ng/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	Styrene	sorbent	GC	50	2000	ng/sample	0.5	10	%	

Scope of accreditation for the production of certified reference materials

I			II	III	IV	V			VI			VI
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation* *
						from	to	Units	from	to	Units	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	1,1,1,2-Tetrachloroethane	sorbent	GC	50	2000	ng/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	1,1,2,2-Tetrachloroethane	sorbent	GC	50	2000	ng/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	Tetrachloroethene	sorbent	GC	50	2000	ng/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	Toluene	sorbent	GC	50	2000	ng/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	1,2,4-Trichlorobenzene	sorbent	GC	50	2000	ng/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	1,1,1-Trichloroethane	sorbent	GC	50	2000	ng/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	1,1,2-Trichloroethane	sorbent	GC	50	2000	ng/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	Trichloroethene	sorbent	GC	50	2000	ng/sample	0.5	10	%	

Scope of accreditation for the production of certified reference materials

I			II	III	IV	V			VI			VI
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation* *
						from	to	Units	from	to	Units	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	Trichlorofluoromethane (Freon 11)	sorbent	GC	50	2000	ng/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	1,2,3-Trichloropropane	sorbent	GC	50	2000	ng/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	Vinyl acetate	sorbent	GC	50	2000	ng/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	Vinyl chloride	sorbent	GC	50	2000	ng/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	Xylenes, total	sorbent	GC	200	3000	ng/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	Acetaldehyde	sorbent	GC	0.5	10	µg/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	Acetone	sorbent	GC	0.5	10	µg/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	Benzaldehyde	sorbent	GC	0.5	10	µg/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	2-Butanone (MEK)	sorbent	HPLC	0.5	10	µg/sample	0.5	10	%	

Scope of accreditation for the production of certified reference materials

I			II	III	IV	V			VI			VI
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	Butiraldeh yde (butanal)	sorbent	HPLC	0.5	10	µg/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	Crotonaldeh yde	sorbent	HPLC	0.5	10	µg/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	2,5-Dimethylben zaldehyde	sorbent	HPLC	0.5	10	µg/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	Formaldeh yde	sorbent	HPLC	0.5	10	µg/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	Hexaldeh yde (hexanal)	sorbent	HPLC	0.5	10	µg/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	Isovaleraldeh yd e	sorbent	HPLC	0.5	10	µg/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	Propionaldeh yd e (propanol)	sorbent	HPLC	0.5	10	µg/sample	0.5	10	%	

Scope of accreditation for the production of certified reference materials

I			II	III	IV	V			VI			VI
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation* *
						from	to	Units	from	to	Units	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	o-Tolualdeh e	sorbent	HPLC	0.5	10	µg/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	m-Tolualdeh e	sorbent	HPLC	0.5	10	µg/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	p-Tolualdeh e	sorbent	HPLC	0.5	10	µg/sample	0.5	10	%	
A. Chemical Composition	A7. Analysis of gases	A7.2 Volatil traces of organic compounds	Valeraldeh e (pentanal)	sorbent	HPLC	0.5	10	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Healt and Hygiene	A5.7 Trace elements in blank filters	Acenaphthen e	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Healt and Hygiene	A5.7 Trace elements in blank filters	Acenaphthyl ene	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Healt and Hygiene	A5.7 Trace elements in blank filters	Aniline	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Healt and Hygiene	A5.7 Trace elements in blank filters	Anthracene	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Healt and Hygiene	A5.7 Trace elements in blank filters	Benzidine	PUF	GC	200	1000	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Healt and Hygiene	A5.7 Trace elements in blank filters	Benzo(a)ant hra cene	PUF	GC	10	225	µg/sample	0.5	10	%	

Scope of accreditation for the production of certified reference materials

I			II	III	IV	V			VI			VI
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Benzo(b)fluoranthene	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Benzo(k)fluoranthene	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Benzo(g,h,i)perylene	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Benzo(a)pyrene	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Benzyl alcohol	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	4-Bromophenylphenylether	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Butylbenzylphthalate	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Carbazole	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	4-Chloroaniline	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Bis(2-chloroethoxy)methane	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Bis(2-chloroethyl)ether	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Bis(2-chloroisopropyl)ether	PUF	GC	10	225	µg/sample	0.5	10	%	

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I			II	III	IV	V			VI			VI
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation* *
						from	to	Units	from	to	Units	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Bis(2-ethylhexyl)phthalate	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	1-Chloronaphthalene	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	2-Chloronaphthalene	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	4-Chlorophenylphenylether	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Chrysene	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Dibenz(a,h)anthracene	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Dibenzofuran	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Di-n-butylphthalate	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	1,2-Dichlorobenzene	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	1,3-Dichlorobenzene	PUF	GC	10	225	µg/sample	0.5	10	%	

Scope of accreditation for the production of certified reference materials

I			II	III	IV	V			VI			VI
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation* *
						from	to	Units	from	to	Units	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	1,4-Dichlorobenzene	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	3,3'-Dichlorobenzidine	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Diethyl phthalate	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Dimethyl phthalate	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	2,4-Dinitrotoluene	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	2,6-Dinitrotoluene	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Di-n-octylphthalate	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Fluoranthene	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Fluorene	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Hexachlorobenzene	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Hexachlorobuta diene	PUF	GC	10	225	µg/sample	0.5	10	%	

Scope of accreditation for the production of certified reference materials

I			II	III	IV	V			VI			VI
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation* *
						from	to	Units	from	to	Units	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Hexachlorocycl opentadiene	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Hexachloroet ha ne	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Indenol(1,2,3 cd)pyrene	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Isophorone	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	2-Methylnapht hal ene	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Naphthalene	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	2-Nitroaniline	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	3-Nitroaniline	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	4-Nitroaniline	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Nitrobenzene	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	N-Nitrosodiethy la mine	PUF	GC	10	225	µg/sample	0.5	10	%	

I			II	III	IV	V			VI			VI
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	N-Nitrosodimethylamine(NDMA)	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	N-Nitrosodiphenylamine	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Pentachlorobenzene	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Phenanthrene	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Pyrene	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Pyridine	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	o-Toluidine	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	1,2,4,5-Tetrachlorobenzene	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	1,2,4-Trichlorobenzene	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Benzoic Acid	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	4-Chloro-3-methylphenol	PUF	GC	10	225	µg/sample	0.5	10	%	

Scope of accreditation for the production of certified reference materials

I			II	III	IV	V			VI			VI
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation* *
						from	to	Units	from	to	Units	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	2-Chlorophenol	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	2,4-Dichlorophenol	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	2,6-Dichlorophenol	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	2,4-Dimethylphenol	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	2,4-Dinitrophenol	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	2-Methyl-4,6-dinitrophenol	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	2-Methyl-4,6-dinitrophenol	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	2-Methylphenol (o- Cresol)	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	4-Methylphenol (p- Cresol)	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	2-Nitrophenol	PUF	GC	10	225	µg/sample	0.5	10	%	

Scope of accreditation for the production of certified reference materials

I			II	III	IV	V			VI			VI
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation* *
						from	to	Units	from	to	Units	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	4-Nitrophenol	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Pentachlorophenol	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Phenol	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	2,3,4,6-Tetrachlorophenol	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	2,4,5-Trichlorophenol	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	2,4,6-Trichlorophenol	PUF	GC	10	225	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Aldrin	PUF	GC	0.5	20	µg/sample	0.5	20	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	alpha-BHC	PUF	GC	0.5	20	µg/sample	0.5	20	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	beta-BHC	PUF	GC	0.5	20	µg/sample	0.5	20	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	delta-BHC	PUF	GC	0.5	20	µg/sample	0.5	20	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	gamma-BHC (Lindane)	PUF	GC	0.5	20	µg/sample	0.5	20	%	

Scope of accreditation for the production of certified reference materials

I			II	III	IV	V			VI			VI
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation* *
						from	to	Units	from	to	Units	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	alpha-Chlordane	PUF	GC	0.5	20	µg/sample	0.5	20	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	gamma-Chlordane	PUF	GC	0.5	20	µg/sample	0.5	20	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	DDD(4,4)	PUF	GC	0.5	20	µg/sample	0.5	20	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	DDE(4,4)	PUF	GC	0.5	20	µg/sample	0.5	20	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	DDT(4,4)	PUF	GC	0.5	20	µg/sample	0.5	20	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Dieldrin	PUF	GC	0.5	20	µg/sample	0.5	20	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Endosulfan I	PUF	GC	0.5	20	µg/sample	0.5	20	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Endosulfan II	PUF	GC	0.5	20	µg/sample	0.5	20	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Endosulfan sulfate	PUF	GC	0.5	20	µg/sample	0.5	20	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Endrin	PUF	GC	0.5	20	µg/sample	0.5	20	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Endrin aldehyde	PUF	GC	0.5	20	µg/sample	0.5	20	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Endrin ketone	PUF	GC	0.5	20	µg/sample	0.5	20	%	

Scope of accreditation for the production of certified reference materials

I			II	III	IV	V			VI			VI
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation* *
						from	to	Units	from	to	Units	
A. Chemical Composition	A5. Industrial Healt and Hygiene	A5.7 Trace elements in blank filters	Heptachlor	PUF	GC	0.5	20	µg/sample	0.5	20	%	
A. Chemical Composition	A5. Industrial Healt and Hygiene	A5.7 Trace elements in blank filters	Heptachlor Epoxide (beta)	PUF	GC	0.5	20	µg/sample	0.5	20	%	
A. Chemical Composition	A5. Industrial Healt and Hygiene	A5.7 Trace elements in blank filters	Methoxychlor	PUF	GC	0.5	20	µg/sample	0.5	20	%	
A. Chemical Composition	A5. Industrial Healt and Hygiene	A5.7 Trace elements in blank filters	Aroclor 1016	PUF	GC	1	15	µg/sample	0.2	5	%	
A. Chemical Composition	A5. Industrial Healt and Hygiene	A5.7 Trace elements in blank filters	Aroclor 1221	PUF	GC	1	15	µg/sample	0.2	5	%	
A. Chemical Composition	A5. Industrial Healt and Hygiene	A5.7 Trace elements in blank filters	Aroclor 1232	PUF	GC	1	15	µg/sample	0.2	5	%	
A. Chemical Composition	A5. Industrial Healt and Hygiene	A5.7 Trace elements in blank filters	Aroclor 1242	PUF	GC	1	15	µg/sample	0.2	5	%	
A. Chemical Composition	A5. Industrial Healt and Hygiene	A5.7 Trace elements in blank filters	Aroclor 1248	PUF	GC	1	15	µg/sample	0.2	5	%	
A. Chemical Composition	A5. Industrial Healt and Hygiene	A5.7 Trace elements in blank filters	Aroclor 1254	PUF	GC	1	15	µg/sample	0.2	5	%	
A. Chemical Composition	A5. Industrial Healt and Hygiene	A5.7 Trace elements in blank filters	Aroclor 1260	PUF	GC	1	15	µg/sample	0.2	5	%	
A. Chemical Composition	A5. Industrial Healt and Hygiene	A5.7 Trace elements in blank filters	Acenaphthene	PUF	HPLC	10	200	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Healt and Hygiene	A5.7 Trace elements in blank filters	Acenaphthylene	PUF	HPLC	10	200	µg/sample	0.5	10	%	

Scope of accreditation for the production of certified reference materials

I			II	III	IV	V			VI			VI
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation* *
						from	to	Units	from	to	Units	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Anthracene	PUF	HPLC	10	200	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Benzo(a)anthracene	PUF	HPLC	10	200	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Benzo(b)fluoranthene	PUF	HPLC	10	200	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Benzo(k)fluoranthene	PUF	HPLC	10	200	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Benzo(g,h,i)perylene	PUF	HPLC	10	200	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Benzo(a)pyrene	PUF	HPLC	10	200	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Chrysene	PUF	HPLC	10	200	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Dibenz(a,h)anthracene	PUF	HPLC	10	200	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Fluoranthene	PUF	HPLC	10	200	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Fluorene	PUF	HPLC	10	200	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Indenol(1,2,3cd)pyrene	PUF	HPLC	10	200	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Naphthalene	PUF	HPLC	10	200	µg/sample	0.5	10	%	

Scope of accreditation for the production of certified reference materials

I			II	III	IV	V			VI			VI
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation* *
						from	to	Units	from	to	Units	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Phenanthrene	PUF	HPLC	10	200	µg/sample	0.5	10	%	
A. Chemical Composition	A5. Industrial Health and Hygiene	A5.7 Trace elements in blank filters	Pyrene	PUF	HPLC	10	200	µg/sample	0.5	10	%	
A. Chemical Composition	A9. Ion activity	A9.1 pH standards	pH	Waste Water	pH meter	5	10	S.I. units	0.1	3	%	
A. Chemical Composition	A9. Ion activity	A9.1 pH standards	pH	Potable water	pH meter	5	10	S.I. units	0.1	3	%	
A. Chemical Composition	A9. Ion activity	A9.1 pH standards	Corrosivity pH	Soil	meter	2	12	S.I. units	0.5	10	%	
A. Chemical Composition	A9. Ion activity	A9.3 Standard conductivity	Conductivity	Water	Conductivity meter	5	500000	µmhos/cm	0.1	5	%	
A. Chemical Composition	A9. Ion activity	A9.4 Buffer System	pH buffers	Water	pH meter	2	12	S.I. units	0.1	3	%	
C. Physical properties	C1. Reference material with optical properties	C1.1 Optical properties	Turbidity	Potable water	turbidimeter	0.5	8	NTU	0.2	5	%	
C. Physical properties	C1. Reference material with optical properties	C1.1 Optical properties	UV 254 Absorbance	Potable water	Spectrometry	0.02	0.7	cm-1	0.2	10	%	
C. Physical properties	C4. Reference Materials for radioactivity	C4.3 Marked compounds	Strontium-89	Potable water	Beta- discriminating liquid scintilation counter	10	70	pCi/L	0.5	5	%	

Scope of accreditation for the production of certified reference materials

I			II	III	IV	V			VI			VI
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation* *
						from	to	Units	from	to	Units	
C. Physical properties	C4. Reference Materials for radioactivity	C4.3 Marked compounds	Strontium-90	Potable water	Beta- discriminating liquid scintillation counter	2	45	pCi/L	0.5	5	%	
C. Physical properties	C4. Reference Materials for radioactivity	C4.3 Marked compounds	Barium-133	Potable water	gamma spectrometry	9	110	pCi/L	0.5	5	%	
C. Physical properties	C4. Reference Materials for radioactivity	C4.3 Marked compounds	Cesium-134	Potable water	gamma spectrometry	10	100	pCi/L	0.5	5	%	
C. Physical properties	C4. Reference Materials for radioactivity	C4.3 Marked compounds	Cesium-137	Potable water	gamma spectrometry	20	240	pCi/L	0.5	5	%	
C. Physical properties	C4. Reference Materials for radioactivity	C4.3 Marked compounds	Cobalt-60	Potable water	gamma spectrometry	10	120	pCi/L	0.5	5	%	
C. Physical properties	C4. Reference Materials for radioactivity	C4.3 Marked compounds	Zinc-65	Potable water	gamma spectrometry	30	360	pCi/L	0.5	5	%	
C. Physical properties	C4. Reference Materials for radioactivity	C4.3 Marked compounds	Gross Alpha	Potable water	Alpha/Beta-discriminating liquid scintillation counter	3	75	pCi/L	0.5	5	%	
C. Physical properties	C4. Reference Materials for radioactivity	C4.3 Marked compounds	Gross Beta	Potable water	Alpha/Beta-discriminating liquid scintillation counter	4	75	pCi/L	0.5	5	%	

Scope of accreditation for the production of certified reference materials

I			II	III	IV	V			VI			VI
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation* *
						from	to	Units	from	to	Units	
C. Physical properties	C4. Reference Materials for radioactivity	C4.3 Marked compounds	Iodine-131	Potable water	Beta-discriminating liquid scintillation counter	1	30	pCi/L	0.5	5	%	
C. Physical properties	C4. Reference Materials for radioactivity	C4.3 Marked compounds	Radium-226	Potable water	gamma spectrometry	1	20	pCi/L	0.5	5	%	
C. Physical properties	C4. Reference Materials for radioactivity	C4.3 Marked compounds	Radium-228	Potable water	gamma spectrometry	1	20	pCi/L	0.5	5	%	
C. Physical properties	C4. Reference Materials for radioactivity	C4.3 Marked compounds	Natural Uranium	Potable water	gamma spectrometry	2	70	pCi/L	0.5	5	%	
C. Physical properties	C4. Reference Materials for radioactivity	C4.3 Marked compounds	Uranium (mass)	Potable water	gamma spectrometry	3	104	pCi/L	0.5	5	%	
C. Physical properties	C4. Reference Materials for radioactivity	C4.3 Marked compounds	Gross Alpha (as Thormium-230)	Potable water	ICP/MS or ICP Beta- discriminating liquid scintillation counter	5000	50000	pCi/L	0.5	5	%	
C. Physical properties	C4. Reference Materials for radioactivity	C4.3 Marked compounds	Gross Beta (as Cesium-137)	Potable water	ICP/MS or ICP Beta- discriminating liquid scintillation counter	5000	50000	pCi/L	0.5	5	%	
C. Physical properties	C4. Reference Materials for radioactivity	C4.3 Marked compounds	Tritium	Potable water	ICP/MS or ICP Beta- discriminating liquid scintillation counter	300	30000	pCi/L	0.5	5	%	

Scope of accreditation for the production of certified reference materials

I			II	III	IV	V			VI			VI
Category	Subcategory level 1	Subcategory level 2	Specified Property	Matrix	Characterization procedures*	Value interval of the Reference Material			Interval of expanded uncertainty for the certified value			Presentation*
						from	to	Units	from	to	Units	
C. Physical properties	C4. Reference Materials for radioactivity	C4.3 Marked compounds	Tritium	Potable water	ICP/MS or ICP Beta-discriminating liquid scintillation counter	1000	32000	pCi/L	0.5	5	%	
D. Engineering properties	D.2. Dimensional	D2.1 Particle size	Particulate matter	Impinger Sol'n	Gravimetric	140	675	mg/L	0.2	10	%	
D. Engineering properties	D.2. Dimensional	D2.1 Particle size	Particulate matter	filter paper	Gravimetric	50	600	µg/filter	0.2	5	%	

***Approach Used to Assign Property Values:**

A4 Environmental Reference Materials/ A4.3 Waters (Potable water, fresh water, waste water) - Certified properties are by ERA reference method

Environmental Reference Materials, Trace Metals - Certified properties are by ERA reference method

Volatile Organic Compounds (VOCs) all matrices - Water, soil, material for sorbent use gravimetric/volumetric made to values.

For gases, use study mean and std dev. OR for small N, use historical data based on all past study mean/STDV

A4 Environmental Reference Materials/ A4.1 Soils and sludges - Formulation, confirmed by análisis

C4 Reference Materials for Radioactivity - Formulation, confirmed by análisis

A5 Health and Industrial Hygiene/ A5.6 Materials on Filter Media - Air deposition

A4 Environmental Reference Materials/ A4.3 Waters – Potable water, fresh water, waste water - Certified properties are by ERA reference method

A4: Environmental Reference Materials/ Potable water routine analytes trace elements - Gravimetric and analytical verification

A4: Environmental Reference Materials/ A4.3 Waters (Potable Water, Routine Analytes, Trace Elements, Organic Pollutants, Other Analytes/ Industrial Waste Water (Routine Analytes, Trace Elements, Organic Pollutants, Other Analytes) - Gravimetric, volumetric, analytical verification

A2: Inorganic Reference Materials

A2.6 Pure chemicals (Primary standards, Working standards, Secondary standards, Chromatography standards, Pharmaceutical materials/ A3: Organic Reference Materials

/A3.1 Pure organic compounds (Pharmaceutical Materials) /A9: Ion Activity/ A9.1 pH standards/ A9.2 Ion selective electrode calibrants/ A9.3 Conductivity standards

A9.4 Buffer systems - Gravimetric and analytical verification comparison to NIST material

** Does not apply