

**The Appendix is an integral part of
Certificate of Accreditation No. 51/2024 of 05/02/2024**

Accredited entity according to ČSN EN ISO/IEC 17025:2018:

BIOANALYTIKA CZ, s.r.o.
CAB number 1012, Laboratory Chrudim
Píšťovy 820, Chrudim III, 537 01 Chrudim

Testing laboratory location:

- | | | |
|-----------|----------------------------|--|
| 1. | Laboratory Chrudim | Píšťovy 820, Chrudim III, 537 01 Chrudim |
| 2. | Location Dražkovice | Dražkovice č.p. 212, 533 33 Pardubice V. |

The laboratory applies a flexible approach to the scope of accreditation.

The current list of activities carried out within the flexible scope is publicly available on the laboratory's website <https://www.bioanalytika.cz/ke-stazeni> in the form „List of activities within the flexible scope of accreditation“.

The laboratory provides opinions and interpretations of the test results.

The laboratory is qualified to carry out standalone sampling.

Detailed information on activities within the scope of accreditation (determined analytes / tested subject / source literature) is given in the section „Specification of the scope of accreditation“

Tests:

Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
1* ¹	Determination of temperature	SOP - 01 (ČSN 75 7342)	Water, hot water, bathing water	-
2* ¹	Determination of redox potential (ORP)	SOP - 02 (ČSN 75 7367)	Ground, bathing water	-
3* ¹	Determination of total and free chlorine (by HACH commercial analytical set) and bound chlorine by calculation from measured values	SOP - 03 A (HACH Application notes)	Drinking, bottled water, hot water, bathing water	-
4 ¹	Determination of free and bound chlorine by colorimetric method	SOP - 04 (ČSN EN ISO 7393-2)	Drinking, bottled water, bathing water	-
5* ¹	Determination of odour and flavour – preliminary sensory tests	SOP - 05 (ČSN EN 1622; ČSN 75 7340)	Drinking, bottled water	-
6* ¹	Determination of dissolved oxygen – method with optical sensor	SOP - 06 A (ČSN ISO 17289; HACH Application notes)	Water, bathing water	-
7* ¹	Determination of ozone - HACH commercial analytical set	SOP - 07 (HACH Application notes)	Drinking, bottled water, bathing water	-
8* ¹	Determination of transparency	ČSN 75 7340	Bathing water	-
9 ¹	Determination of turbidity by nephelometry - commercial analytical sets	SOP - 09 A (ČSN EN ISO 7027-1)	Drinking water, bottled water, hot water, bathing water, ground water, surface water	-

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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
10* ¹	Determination of turbidity by nephelometry - HANNA commercial analytical set	SOP - 09 B (HANNA method)	Drinking water, bottled water, hot water, bathing water, ground water, surface water	-
11 ¹	Determination of pH by potentiometry	SOP - 11 (Uniform working procedures – Analysis of Soils, Procedure No. 30040.1, ÚKZÚZ Brno 2010; ČSN EN ISO 10390)	Soils, sludge, sediments, solid waste, composts	-
12 ¹	Determination of conductivity	SOP - 12 A (ČSN EN 27888)	Water, aqueous extract	-
13 ¹	Determination of dry matter by gravimetry	SOP - 13 (Uniform working procedures – Testing of Fertilizers, Procedure No. 20001.1, ÚKZÚZ Brno 2020; ČSN EN 15934)	Soils, sludge, solid waste, composts, sediments	-
14 ¹	Determination of combustibles (ash) by gravimetry	SOP - 14 (Uniform working procedures – Testing of Fertilizers, Procedure No. 20010.1, ÚKZÚZ Brno 2020; ČSN EN 15935)	Soils, sludge, solid waste, composts, sediments	-
15 ¹	Determination of dissolved solids (RL 105 °C) by gravimetry	SOP - 15 (ČSN 75 7346)	Water, aqueous extract	-
16 ¹	Determination of suspended solids (NL 105 °C) and loss on ignition of suspended solids (NL 550 °C) by gravimetry	SOP - 16 (ČSN EN 872; ČSN 75 7350)	Water	-
17 ¹	Determination of dissolved inorganic salts (RAS) by gravimetric method after filtration through glass fibre filters	SOP - 17 (ČSN 75 7347)	Water	-
18 ¹	Determination of fluoride by ion selective electrode	SOP - 18 (ČSN ISO 10359)	Water, aqueous extract	-
19 ¹	Determination of biochemical oxygen demand (BOD-5) by standard dilution method with nitrification suppression by membrane probe	SOP - 19 (ČSN EN ISO 5815-1)	Water	-
20 ¹	Determination of chemical oxygen demand with dichromate (COD-Cr) by spectrophotometry – HACH commercial analytical set, Merck Spectroquant commercial analytical set	SOP - 20 (ČSN ISO 15705; HACH application notes; Merck application notes)	Water, bathing water, aqueous extract	-

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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
21 ¹	Determination of chemical oxygen demand with dichromate (COD-Cr) by titration method	SOP - 21 (ČSN ISO 6060)	Water, hot water, aqueous extract	-
22 ¹	Determination of chemical oxygen demand using permanganate (COD-Mn) by titration	SOP - 22 (ČSN EN ISO 8467)	Water, bathing water, hot water, aqueous extract	-
23 ¹	Determination of ammonium (NH ₄ ⁺) by manual spectrophotometric method, ammonia nitrogen (N-NH ₄) and free ammonia by calculation from measured values	SOP - 23 (ČSN ISO 7150-1; Pitter, P.: Hydrochemistry, 4th issue, UCT Prague 2009)	Water, hot water, aqueous extract	-
24 ¹	Determination of nitrite (NO ₂) by spectrophotometry with sulphosalicylic acid and N-(1-naphthyl)-1,2-ethylenediaminedihydrochloride and nitrite nitrogen (N-NO ₂) by calculation from measured values	SOP - 24 (ČSN EN 26777)	Water, hot water, aqueous extract	-
25 ¹	Determination of N-NO ₃ by ion selective electrode	SOP - 25 (Zbiral, J., Malý, S., Váňa M. et al.: Uniform working procedures – Analysis of Soils III, ÚKZÚZ Brno 2011)	Soils, sediments, sludge, solid waste	-
26 ¹	Determination of nitrate (NO ₃ ⁻) by spectrophotometry in UV range	SOP - 26 (Horáková, M., Lischke, P., Grünwald, A.: Chemical and Physical Methods for Water Analysis, Prague, 1986)	Drinking, bottled water	-
27 ¹	Determination of total nitrogen (N-total) as nitrate by spectrophotometry after oxidation with Merck Crack Set agent and inorganic nitrogen (N-inorg.) by calculation from measured values	SOP - 27 (Merck Application notes)	Water, hot water, aqueous extract	-
28 ¹	Determination of dissolved inorganic phosphate by spectrophotometry – Merck Spectroquant commercial analytical kit	SOP - 28 (Merck Application notes)	Water, hot water, aqueous extract	-
29 ¹	Determination of total phosphorus (P-tot.) by spectrophotometry after transformation to phosphate by Merck Crack Set agent	SOP - 29 (Merck Application notes)	Water, aqueous extract	-

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Ordinal number¹	Test procedure / method name	Test procedure / method identification²	Tested subject	Degrees of freedom³
30 ¹	Determination of N-NH ₄ by spectrophotometry	SOP - 30 (Zbíral, J., Malý, S., Váňa M. et al.: Uniform working procedures – Analysis of Soils III, ÚKZÚZ Brno 2011)	Soils, sediments, sludge, solid waste	-
31 ¹	Determination of total and free cyanides after distillation by spectrophotometry	SOP - 31 (ČSN ISO 6703-1:1995; ČSN ISO 6703-2; ČSN 75 7415)	Water, aqueous extract	-
32 ¹	Determination of univalent phenols volatilising with water steam by spectrophotometry with aminoantipyrine	SOP - 32 (ČSN ISO 6439)	Water, aqueous extract	-
33 ¹	Determination of hexavalent chromium (Cr ^{VI}) by spectrophotometry	SOP - 33 (ČSN ISO 11083; ČSN EN ISO 18412)	Water, aqueous extract	-
34 ¹	Determination of chloride by silver nitrate titration according to Mohr and calculation of the content of water-soluble chlorides in dry matter from the values determined for the aqueous extract	SOP - 34 (ČSN ISO 9297)	Water, aqueous extract	-
35 ¹	Determination of chloride by argentometry with microcoulometric generation of Ag ⁺ and potentiometric detection of equivalence point and calculation of the content of water-soluble chlorides in dry matter from the values determined for the aqueous extract	SOP - 35 (Labtech manual)	Water, aqueous extract	-
36 ¹	Determination of sulphate by titration with lead nitrate and calculation of the content of water-soluble sulphate in dry matter from the values determined for the aqueous extract	SOP - 36 (ČSN 75 7477)	Water, aqueous extract	-
37 ¹	Determination of acid neutralizing capacity (ANC-4,5) and ANC-8,3 by neutralization titration and calculation of carbon dioxide forms from measured values of ANC and base neutralizing capacity BNC	SOP - 37 (ČSN EN ISO 9963-1; ČSN 75 7373)	Drinking, ground water	-
38 ¹	Determination of base neutralizing capacity (BNC-8,3) and BNC-4,5 by neutralization titration	SOP - 38 (ČSN 75 7372)	Drinking, ground water	-

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Ordinal number¹	Test procedure / method name	Test procedure / method identification²	Tested subject	Degrees of freedom³
39 ¹	Determination of the sum of calcium and magnesium (water hardness) and calcium by complexometric method and magnesium by calculation from measured values	SOP - 39 (ČSN ISO 6059; ČSN ISO 6058)	Drinking, bottled water, surface and ground water, heating water	-
40 ¹	Determination of Fe(II) by absorption spectrometry with o-phenanthroline and Fe(III) by calculation from measured values	SOP - 40 (ČSN ISO 6332)	Drinking, ground water	-
41 ¹	Determination of elements by AAS/flame method and calculation of hardness of water from the measured values of calcium and magnesium	SOP - 41 (ČSN EN ISO 5961; ČSN ISO 7980; ČSN ISO 8288; ČSN 75 7400; ČSN EN 1233)	Water, aqueous extract	B
42 ¹	Determination of elements by AAS/flame method	SOP - 42 (ČSN EN ISO 5961; ČSN ISO 7980; ČSN ISO 8288; ČSN 75 7400; ČSN EN 1233)	Soils, sludge, sediments, solid waste ⁹	B
43 ¹	Determination of elements by AAS/flame method	SOP - 43 (ČSN EN ISO 5961; ČSN ISO 7980; ČSN ISO 8288; ČSN 75 7400; ČSN EN 1233)	Working environment, emissions (absorbate, condensate, filter)	B
44 ¹	Determination of elements by AAS/ETA method	SOP - 44 (ČSN EN ISO 5961; ČSN EN ISO 15586)	Water, bathing water, aqueous extract	B
45 ¹	Determination of elements by AAS/ETA method	SOP - 45 (ČSN EN ISO 5961; ČSN EN ISO 15586)	Soils, sludge, sediments, solid waste ⁹	B
46 ¹	Determination of elements by AAS/ETA method	SOP - 46 (ČSN EN ISO 5961; ČSN EN ISO 15586)	Working environment, emissions (absorbate, condensate, filter)	B
47 ¹	Determination of mercury by analyser AMA-254	SOP - 47 (ČSN 75 7440)	Water, aqueous extract; Soils, sludge, sediments, solid waste; Emissions and working environment (absorbate, condensate, filter)	A

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48 ¹	Determination of sodium and potassium by flame emission spectrometry and determination of total mineralization by calculation from measured values	SOP - 48 (ČSN ISO 9964-3; ČSN 75 7358)	Water	-
49 ¹	Determination of chlorophyll- <i>a</i> by spectrophotometry	SOP-49 (ČSN ISO 10260)	Surface, bathing water – natural bathing places	-
50 ¹	Determination of radon activity concentration ²²² Rn by gamma-ray spectrometry method	SOP - 50 (ČSN 75 7624)	Drinking, bottled water, ground water	-
51* ¹	Determination of chlorine dioxide - HACH commercial analytical set	SOP - 03 B (HACH Application notes)	Drinking, bottled water, hot water, bathing water	-
52 ¹	Determination of total cyanide by spectrophotometry after distillation	SOP - 52 (EPA Method 9013A; ČSN 75 7415)	Soils, solid waste	-
53 ¹	Determination of phenols volatilising with water steam by spectrophotometric method	SOP - 53 (EPA Method 420.1; ČSN ISO 6439)	Soils, sediments, solid waste	-
54 ¹	Determination of humic substances (HL) by spectrophotometry	SOP - 54 (ČSN 75 7536)	Drinking water, bottled water, surface water, ground water, raw water for the production of drinking water	-
55 ¹	Determination of colour by spectrophotometry	SOP - 55 (ČSN EN ISO 7887, method C)	Water, aqueous extract	-
56 ¹	Determination of absorbance of 254 nm wavelength UV radiation	SOP - 56 (ČSN 75 7360)	Water, aqueous extract	-
57 ¹	Determination of reactive silicon by spectrophotometry with ammonium molybdate	SOP - 57 (ČSN 75 7481)	Drinking, surface, ground water, water for energy purposes	-
58 ¹	Determination of selected phenol derivatives by GC / MS method and calculation of summary parameters from measured values	SOP - 58 (EPA Method 8041A; EPA Method 3550C; EPA Method 3650B)	Soils, sediments, solid waste	B
59 ¹	Determination of pH by potentiometry	SOP - 10 A (ČSN ISO 10523)	Water, hot water, bathing water, aqueous extract	-
60* ¹	Determination of pH by potentiometry	SOP - 10 B (ČSN ISO 10523)	Water, hot water, bathing water	-
61 ¹	Determination of nonpolar extractives / extractives (NEL/EL) by infrared spectrometry method	SOP - 61 (ČSN 75 7505: 1998; ČSN 75 7506)	Water, aqueous extract	-

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62 ¹	Determination of non-polar extractives (NEL) by infrared spectrometry method	SOP - 62 (TNV 75 8052)	Soils, sludge, sediments, solid waste	-
63 ¹	Determination of volatile organic compounds by static head space GC/MS method and calculation of summary parameters from measured values	SOP - 63 (ČSN EN ISO 10301)	Water, hot water	B
64 ¹	Determination of volatile organic compounds by head space/GC-MS method and calculation of summary parameters from measured values	SOP - 64 (ČSN EN ISO 22155)	Soils, sediments, solid waste, sludge	B
65 ¹	Determination of polycyclic aromatic hydrocarbon by GC/MS method and calculation of summary parameters from measured values	SOP - 65 (ČSN EN 17503)	Soils, sediments, solid waste, sludge, bituminous mixtures	B
66 ¹	Determination of the sum of hydrocarbons C ₁₀ to C ₄₀ by gas chromatography GC/FID method	SOP - 66 (ČSN EN ISO 9377-2)	Water, aqueous extract	-
67 ¹	Determination of the sum of hydrocarbons C ₁₀ to C ₄₀ by gas chromatography GC/FID method	SOP - 67 (ČSN EN 14039; ČSN P CEN ISO/TS 16558-2)	Soils, sediments, solid waste, sludge	-
68 ¹	Determination of polychlorinated biphenyls (PCB) by GC/MS method and calculation of summary parameters from measured values	SOP - 68 (ČSN EN ISO 6468)	Water, aqueous extract	B
69 ¹	Determination of polychlorinated biphenyls (PCB) by GC/MS method and calculation of summary parameters from measured values	SOP - 69 (ČSN EN 61619; ČSN EN 17322; DIN 38407-2:1993)	Soils, sediments, solid waste, sludge, petroleum products	B
70 ¹	Determination of specified organochlorinated pesticides (OCP) and chlorobenzenes by GC/MS method after liquid/liquid extraction and calculation of summary parameters from measured values	SOP - 70 (ČSN EN ISO 6468)	Water, aqueous extract	B
71 ¹	Determination of selected pesticides by GC/MS method and calculation of summary parameters from measured values	SOP - 71 (DIN 38407-2:1993; EPA Method 8270C; EPA Method 8141B; EPA Method 3550C)	Soils, sediments, solid waste, sludge	B

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72 ¹	Determination of methane by gas chromatography GC/FID method	SOP – 72 (ČSN EN 482, Supelco, Application Note 10, 1994)	Soil air, landfill gas	-
73 ¹	Determination of light volatile hydrocarbons (methane, ethane, ethene) by gas chromatography GC/FID method	SOP – 73 (Lewin, K., Blakey, N.C., Cooke, D.A.: The Validation of Methodology in the Determination of Methane in Water – Final Report No. 21/1990. Water Research Centre, Marlow, Buckinghamshire SL7 2HD)	Ground water	B
74 ¹	Determination of polycyclic aromatic hydrocarbons (PAH) by HPLC method with fluorescence detection and calculation of summary parameters from measured values	SOP - 74 (ČSN EN ISO 17993)	Water, aqueous extract	B
75 ¹	Determination of polycyclic aromatic hydrocarbons (PAH) by HPLC method with fluorescence detection and calculation of summary parameters from measured values	SOP – 75 (Plhalová, Š., Veverková I.: Determination of PAH in Soils by HPLC method, Laboratory Department Bulletin 2/2003, ÚKZÚZ Brno)	Soils, sludge, sediments, solid waste	B
76 ¹	Determination of polycyclic aromatic hydrocarbon (PAH) by GC/MS method and calculation of summary parameters from measured values	SOP - 76 (ČSN P ISO/TS 28581)	Water, aqueous extract	B
77 ¹	Determination of selected herbicides by HPLC method with UV detection and calculation of summary parameters from measured values	SOP – 77 (ČSN EN ISO 11369)	Drinking, surface and ground water	B
78 ¹	Determination of selected herbicides by HPLC method with UV detection and calculation of summary parameters from measured values	SOP – 78 (ČSN EN ISO 11369; Supelco Bulletin 910)	Soils, building materials, sediments	B
79 ¹	Determination of TOC/DOC and TIC by NDIR analyzer	SOP - 79 (ČSN EN 1484)	Water, hot water, bathing water, aqueous extract	-
80 ¹	Determination of total organic carbon (TOC) by NDIR analyzer	SOP - 80 (ČSN EN 13137; ČSN ISO 10694; ČSN EN 15936)	Soils, sediments, sludge, waste	-

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81 ¹	Determination of adsorbable organically bound halogens (AOX) by coulometry	SOP - 81 (ČSN EN ISO 9562; TNI 75 7531)	Water, aqueous extract	-
82 ¹	Determination of selected phenol derivatives by GC/MS method including calculation of summary parameters from measured values	SOP - 82 ČSN EN 12673	Drinking, ground, surface, waste water, aqueous extract	B
83* ¹	Determination of dissolved oxygen – method with galvanic sensor	SOP - 06 B (ČSN EN ISO 5814; HANNA Application notes)	Water, bathing water	-
84* ¹	Determination of conductivity	SOP - 12 B (ČSN EN 27888)	Water	-
85 ¹	Determination of aniline and its selected derivatives by GC/MS method	SOP - 87 (EPA Method 8270D; EPA Method 3510C)	Monitoring wells, surface water, waste water	B
86 ¹	Determination of anionic surfactants by spectrophotometry	SOP - 89 (ČSN EN 903)	Drinking, surface, ground, waste water	-
87 ¹	Determination of dissolved sulphide by spectrophotometry	SOP - 90 (ČSN ISO 10530; Merck Application notes)	Drinking, surface, ground, waste water	-
88 ¹	Determination of extractable organically bound halogens (EOX) by coulometry	SOP – 95 (DIN 38414-17)	Soils, sludge, sediments, solid waste	-
89 ¹	Determination of adsorbable organically bound halogens (AOX) by coulometry	SOP - 96 (ČSN EN 16166)	Soils, sludge, sediments, solid waste	-
90 ¹	Determination of selected phthalates by GC/MS method	SOP - 97 (ČSN EN ISO 18856)	Water	B
91 ¹	Determination of selected phthalates by GC/MS method	SOP - 98 (ČSN P CEN/TS 16183)	Soils, sediments, sludge and solid waste	B
92 ¹	Determination of selected elements by ICP-OES method	SOP - 101 (ČSN EN ISO 11885; Shimadzu ICPE-9000 Manual)	Water, bathing water, aqueous extract	B
93 ¹	Determination of selected elements by ICP-OES method	SOP - 102 (ČSN EN ISO 11885; ČSN EN 13657; Shimadzu ICPE-9000 Manual)	Soils, sludge, sediments, solid waste	B
94 ¹	Determination of selected elements by ICP-OES method	SOP - 103 (ČSN EN ISO 11885; Shimadzu ICPE-9000 Manual)	Working environment, emissions (absorbate, condensate, filter)	B

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95 ¹	Determination of nitrate by spectrophotometry by Merck set and nitrate nitrogen (N-NO ₃) by calculation from measured values	SOP - 104 (Merck Application notes)	Water	-
96 ¹	Determination of nitrate by photometric method with 2,6-dimethylphenol in test tubes and nitrate nitrogen (N-NO ₃) by calculation from measured values	SOP - 104 B (ČSN 75 7455)	Water, bathing water, aqueous extract	-
97 ¹	Determination of nonionic surfactants by photometry by Merck Spectroquant cuvette test	SOP - 109 (Merck Application notes)	Drinking, surface, ground, waste water	-
98 ¹	Determination of elements by ICP-MS method	SOP - 113 (ČSN EN ISO 17294-1; ČSN EN ISO 17294-2)	Water, bathing water, aqueous extract	B
99 ¹	Determination of elements by ICP-MS method	SOP - 114 (ČSN EN 16171)	Soils, sludge, sediments, solid waste	B
100 ¹	Determination of elements by ICP-MS method	SOP - 115 (ČSN EN 16171, (Manual to the Shimadzu instrument)	Working environment, emissions (absorbate, condensate, filter)	B
101 ¹	Determination of hexavalent chromium (Cr ^{VI}) by alkaline digestion with spectrophotometric detection	SOP - 111 (ČSN EN ISO 15192)	Soils, sludge, sediments, solid waste	-
102 ¹	Determination of anionic surfactants by spectrophotometry using the cuvette test	SOP - 118 (Merck application sheets; HACH application sheets)	Water, aqueous extract	-
103 ¹	Determination of cationic surfactants by spectrophotometry using the cuvette test	SOP - 120 (Merck application sheets; HACH application sheets)	Water, aqueous extract	-
104 ¹	Determination of bromates, chlorites and chlorates by capillary electrophoresis	SOP - 119 (Application sheet No. 24, Villa Labeco, s.r.o.)	Water, aqueous extract	-
105 ¹	Determination of gross alpha activity by scintillation and calculation of indicative dose from measured values	SOP - 121 (ČSN 75 7611; SÚJB recommendation DR-RO-5.1, 2017)	Water	-
106 ¹	Determination of gross beta activity by proportional detector	SOP - 122 (ČSN 75 7612)	Water	-
107-199	Reserved			
200* ²	Determination of velocity and volume flow rate	SOP - 200 (ČSN ISO 10780; ČSN EN ISO 16911-1; ČSN EN 13284-1)	Emissions	-

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201* ²	Determination of water vapour in ducts (by condensation, condensation adsorption method, capacitance detector)	SOP - 201 (ČSN EN 14790)	Emissions	-
202* ²³	Determination of mass concentration of gaseous pollutants by automated NO _x , CO, SO ₂ (NDIR) analyzers	SOP – 202 A (ČSN ISO 10849; ČSN EN 15058; ČSN ISO 7935)	Emissions	-
203 ²	Determination of the volume concentration of oxygen by automatic analyzer (paramagnetic method)	SOP - 203 (ČSN EN 14789)	Emissions	-
204* ²	Determination of total mass concentration of organic compounds expressed as total organic carbon (TOC) by automatic analyzers (FID)	SOP - 204 (ČSN EN 12619)	Emissions	-
205* ²	Determination of methane (CH ₄) by automated analyser (NDIR)	SOP - 205 (Optima 7 Biogas Instructions for Use; Guideline of the Ministry of the Environment; Pollution Indicators 2013)	Soil air	-
206 ²	Determination of mass concentration of solid pollutants by gravimetry	SOP - 206 (ČSN EN 13284-1; ČSN EN ISO 16911-1; ČSN ISO 9096:1998; GR No. 361/2007 Coll.)	Emissions, working, indoor and outdoor air (filters)	-
207 ¹	Determination of mass concentration of gaseous inorganic compounds of fluorine by ion selective electrode	SOP - 207 (ČSN P CEN/TS 17340)	Emissions, working, indoor and outdoor air (absorbate)	-
208 ¹	Determination of mass concentration of gaseous inorganic compounds of chlorine by argentometry with microcoulometric generation of Ag ⁺ and potentiometric detection of equivalence point	SOP - 208 (ČSN EN 1911; Labtech manual)	Emissions, working, indoor and outdoor air (absorbate)	-
209 ¹	Determination of mass concentration of ammonia by spectrophotometry	SOP - 209 (ČSN 83 4728-1; ČSN 83 4728-4)	Emissions, working, indoor and outdoor air (absorbate)	-

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Ordinal number¹	Test procedure / method name	Test procedure / method identification²	Tested subject	Degrees of freedom³
210 ²	Determination of mass concentration of gaseous pollutants with NOx automatic analyzer (chemiluminescence)	SOP - 202 B (ČSN EN 14792)	Emissions	-
211 ¹	Determination of mass concentration of hydrogen cyanide and cyanide by spectrophotometry	SOP - 211 (ČSN ISO 6703-1:1995; ČSN ISO 6703-2; ČSN 75 7415; EPA Method 9010B)	Emissions, working, indoor and outdoor air (absorbate)	-
212 ¹	Determination of mass concentration of strong inorganic acids by spectrophotometry ⁴	SOP - 212 (Sanitary Regulation No. 60, page 40, 1981)	Emissions, working, indoor and outdoor air (absorbate)	-
213 ¹	Determination of mass concentration of volatile organic compounds (VOC) by gas chromatography method GC/MS	SOP - 213 (ČSN P CEN/TS 13649)	Emissions, working, indoor and outdoor air, soil air (sorbent)	B
214 ²	Determination of mass concentration of metals by calculation from measured values ⁴ (As, Cd, Be, Cr, Co, Ni, Tl, Se, Te, Sb, Sn, Mn, Cu, Pb, V, Zn, Al, Hg)	SOP - 214 (ČSN EN 13211; ČSN EN 14385; EPA Method 29)	Emissions (filter, absorbate)	-
215 ²	Determination of mass concentration of persistent compounds (POPs) by calculation from measured values ⁴ (PCDD/PCDF, PCB, PAU)	SOP - 215 (ČSN EN 1948-3; ČSN EN 1948-4+A1; ISO 11338-1:2003; ISO 11338-2:2003)	Emissions (filter, condensate, absorbate)	-
216 ²	Determination of mass concentration of gases and vapours taken into liquid by the calculation from measured values (HF, HCl, Cl ₂ , H ⁺ , HCN, CN ⁻ , NH ₃ , H ₂ S, phenols, SO ₂)	SOP - 216 (ČSN EN 1911; ČSN P CEN/TS 17340; ČSN 83 4728-1)	Emissions (absorbate, filter)	-
217 ²	Determination of mass concentration of gases and vapours taken on a solid sorbent by calculation from measured values (VOC, carbonyl compounds)	SOP - 217 (ČSN P CEN/TS 13649)	Emissions (sorbent)	-
218* ²	Measurement of microclimatic conditions (resulting temperature of a spherical thermometer, air temperature, relative air humidity, air flow velocity, operating temperature)	SOP - 218 (ČSN EN ISO 7726; MoH Bulletin No. 8/2013; ČSN EN ISO 7730)	Working, indoor and outdoor air	-

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Ordinal number¹	Test procedure / method name	Test procedure / method identification²	Tested subject	Degrees of freedom³
219 ¹	Determination of mass concentration of phenols by spectrophotometry – Merck commercial analytical set	SOP - 219 (Merck Application notes)	Water, aqueous extract, emissions, working, indoor and outdoor air (absorbate)	B
220 ^{*2}	Measurement of noise in a working environment	SOP - 220 (MoH Bulletin No. 4/2013; ČSN ISO 1996-1; ČSN EN ISO 9612)	Working environment	-
221 ^{*2}	Measurement of noise in a non-working environment	SOP - 221 (OVZ - 32.0 - 19.2.2007/6306; TP 189; Calculation of road traffic noise; MoH Bulletin No. 11/2017 Expert recommendations for the measurement and evaluation of noise in non-workplace environment, version 1.0 of 3/2018; ČSN ISO 1996-1; ČSN ISO 1996-2; ČSN ISO 9613-2; ČSN EN ISO 11201; ČSN EN ISO 11202)	Non-working environment	-
222 ^{*2}	Determination of the sound power level	SOP - 222 (ČSN ISO 1996-1; ČSN EN ISO 3744; ČSN EN ISO 3746; ČSN EN ISO 3747)	Noise sources	-
223 ^{*2}	Semiquantitative determination of analytes by means of detection tubes	SOP - 223 (ČSN EN ISO 17621; Gastec and Dräger manuals)	Emissions, working, indoor and outdoor air, soil air	B
224 ¹	Determination of carbonyl compounds after catching on a sorbent with bound 2,4-dinitrophenylhydrazine by HPLC method with UV detection	SOP - 224 (EPA Method TO-5)	Working, indoor and outdoor air, emissions	B
225 ²	Measurement of vibration	SOP - 221 (ČSN EN ISO 5349-1; ČSN EN ISO 5349-2; ČSN ISO 5348:1999; ČSN ISO 2631-1; ČSN EN 14253+A1; ČSN EN ISO 8041-1; MoA Bulletin 4/2013)	Working environment	-

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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
226* ²	Measurement of artificial lighting	SOP - 222 (ČSN EN 12665; ČSN 36 0011-1; ČSN 36 0011-3; ČSN 36 0011-4; ČSN EN 12464-1; ČSN EN 12464-2; ČSN EN 12193; ČSN EN 1838; TNI 36 0450; TNI 36 0451)	Indoor environment	-
227 ²	Qualitative determination of inorganic fibres, including asbestos fibres, by scanning electron microscope with EDX analyzer – SEM/EDX	SOP - 227 (VDI 3866 Part V)	Construction materials, materials from construction	-
228 ²	Determination of numerical concentration of inorganic fibres in air by scanning electron microscope with EDX analyzer – SEM/EDX	SOP - 228 (ČSN EN ISO 16000-7; ISO 14966; VDI 3492; Government Regulation No. 361/2007 Coll.)	Indoor, outdoor, working air	-
229* ²	Preliminary detection of asbestos by near-infrared spectroscopy (NIR) method	SOP - 229 (Thermo Scientific manual)	Construction materials, materials from construction	-
230 - 299	Reserved			
300 ¹	Detection and enumeration of <i>Pseudomonas aeruginosa</i> by membrane filtration method	SOP - 300 (ČSN EN ISO 16266)	Drinking, bottled, hot, surface, waste, bathing water, mineral water	-
301 ¹	Detection and enumeration of <i>Clostridium perfringens</i> by membrane filtration method on M-CP Agar	SOP - 301 (Decree No. 252/2004 Coll., Annex No. 6)	Drinking, surface, waste, bathing water	-
302 ¹	Determination of thermotolerant coliform bacteria by membrane filtration method	SOP - 302 (ČSN 75 7835)	Drinking, surface, waste, bathing water	-
303 ¹	Enumeration of <i>Staphylococcus aureus</i> by membrane filtration method	SOP - 303 (ČSN EN ISO 6888-1)	Surface, waste, bathing, hot water	-
304 ¹	Enumeration of indicator microorganisms by direct inoculation method	SOP - 304 (AHEM 1/2008; AHEM 7/2001)	Sludge, sand, sediments, composts	-
305 ¹	Detection and enumeration of <i>Clostridium perfringens</i> by membrane filtration method on TSC Agar	SOP - 327 (ČSN EN ISO 14189)	Drinking, ground, surface water	-

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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
306 ¹	Enumeration of culturable microorganisms at 22 °C and 36 °C by direct inoculation in a nutrient agar culture medium	SOP - 306 (ČSN EN ISO 6222)	Drinking, bottled, hot, ground, surface, bathing, mineral water	-
307 ¹	Detection and enumeration of coliform bacteria by membrane filtration method	SOP - 307 (ČSN 75 7837)	Drinking, surface, waste, bathing water	-
308 ¹	Detection and enumeration of intestinal enterococci by membrane filtration method	SOP - 308 (ČSN EN ISO 7899-2)	Drinking, bottled, ground, surface, waste, bathing, mineral water	-
309 ¹	Detection and enumeration of mesophilic bacteria by direct inoculation in a nutrient agar culture medium	SOP - 309 (ČSN 75 7841)	Surface, ground water	-
310 ¹	Detection and enumeration of psychrophilic bacteria by direct inoculation in a nutrient agar culture medium	SOP - 310 (ČSN 75 7842)	Surface, ground water	-
311 ¹	Detection and enumeration of <i>Escherichia coli</i> and coliform bacteria by membrane filtration method	SOP - 311 (ČSN EN ISO 9308-1)	Disinfected drinking water, bottled water, disinfected at the outlet from water treatment plants, disinfected water for bathing, mineral water	-
312 ¹	Detection and enumeration of sulfite-reducing anaerobes (clostridia) by membrane filtration method	SOP - 312 (ČSN EN 26461-2)	Bottled water, waste, ground water, water for bathing, mineral water	-
313 ¹	Detection and enumeration of <i>Legionella</i> by membrane filtration method	SOP - 313 (ČSN EN ISO 11731)	Drinking, hot, bathing water	-
314-315	Reserved			
316 ¹	Determination of abioseston by microscopic method	SOP - 316 (ČSN 75 7713)	Drinking, surface and ground water	-
317 ¹	Determination of bioseston by microscopic method	SOP - 317 (ČSN 75 7712)	Drinking, bottled water, surface and ground water	-
318-349	Reserved			
350 ¹	Determination of the acute lethal toxicity of substances to a freshwater fish <i>Poecilia reticulata</i>	SOP - 350 (ČSN EN ISO 7346 - 2)	Soils, waste, waste water, aqueous extract	-
351 ¹	Determination of the inhibition of the mobility of <i>Daphnia magna</i>	SOP - 351 (ČSN EN ISO 6341)	Soil, waste, waste water, aqueous extract	-

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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
352 ¹	Fresh water green algal growth inhibition test with <i>Desmodesmus subspicatus</i>	SOP - 352 (ČSN EN ISO 8692)	Soil, waste, waste water, aqueous extract	-
353 ¹	<i>Sinapis alba</i> root growth inhibition test	SOP - 353 (Guideline No. 8, MoE CR Bulletin, XVII, No. 4/2007)	Soil, waste, waste water, aqueous extract	-
354 ¹	Determination of the inhibitory effect on the light emission of <i>Aliivibrio fischeri</i>	SOP - 354 (ČSN EN ISO 11348-2; ČSN EN ISO 11348-3; Decree No. 273/2021 Coll.; Decree No. 8/2021 Coll.)	Soils, waste, waste water, aqueous extract	-
355 ¹	Test of root growth inhibition in lettuce <i>Lactuca sativa</i>	SOP - 355 (ČSN EN ISO 11,269-1; Decree No. 273/2021 Coll.; Decree No. 8/2021 Coll.)	Soil, waste	-

¹ asterisk at the ordinal number identifies the tests, which the laboratory is qualified to carry out outside the permanent laboratory premises, the numerical index at the test ordinal number identifies the location carrying out the test (the identification of the locations is given on the first page of this document)

² if the document identifying the test procedure is dated, only these specific procedures are used. If the document identifying the test procedure is not dated, the latest valid edition of the specified procedure is used (including any changes)

³ degrees of freedom: A – Flexibility concerning materials/products (subject of the test), B – Flexibility concerning components/parameters/characteristics, C – Flexibility concerning the performance of the method, D – Flexibility concerning the method

The laboratory can modify the test procedures with the specified degree(s) of freedom in the scope of accreditation while maintaining the principle of measurement. If no degree of freedom is specified, the laboratory cannot apply a flexible approach to the scope of accreditation for the test

⁴ laboratory determination of the analytes in the sample is carried out by an external test provider within the scope of its accreditation

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)
41, 42, 43	Ag, Ca, Co, Cu, Mn, Fe, Ni, Mg, Cr, Zn, Cd, Pb
44, 45, 46	As, Sb, Ba, Be, Sn, Cd, Pb, Mo, Se, Tl, V
58	Phenol, 2-chlorophenol, 3-chlorophenol, 4-chlorophenol, 2,3-dichlorophenol, 2,4-dichlorophenol, 2,5-dichlorophenol, 2,6-dichlorophenol, 3,4-dichlorophenol, 3,5-dichlorophenol, 2,4,5-trichlorophenol, 2,4,6-trichlorophenol, 2,3,4-trichlorophenol, 2,3,5-trichlorophenol, 3,4,5-trichlorophenol, 2,3,4,5-tetrachlorophenol, 2,3,5,6-tetrachlorophenol, 2,3,4,6-tetrachlorophenol, pentachlorophenol, 2-methylphenol, 3-methylphenol, 4-methylphenol, 2,3-dimethylphenol
63	Benzene, toluene, ethylbenzene, xylenes, styrene, chlorobenzene, 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,1,2-trichloroethene (TCE), 1,1,2,2-tetrachloroethene (PCE), 1,1-

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Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)
	dichloroethene, 1,2-cis-dichloroethene, 1,2-trans-dichloroethene, vinylchloride, 1,1-dichloroethane, 1,2-dichloroethane, dichloromethane, trichloromethane, tetrachloromethane, bromodichloromethane, dibromochloromethane, bromoform, 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,1,1,2-tetrachloroethane, 1,1,2,2-tetrachloroethane, 2-methoxy-2-methylpropane (MTBE), naphthalene
64	Benzene, toluene, ethylbenzene, xylenes, styrene, chlorobenzene, 1,2-dichlorobenzenene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,1,2-trichloroethene (TCE), 1,1,2,2-tetrachloroethene (PCE), 1,1-dichloroethene, 1,2-cis-dichloroethene, 1,2-trans-dichloroethene, vinylchloride, 1,1-dichloroethane, 1,2-dichloroethane, dichloromethane, trichloromethane, tetrachloromethane, 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,1,1,2-tetrachloroethane, 1,1,2,2-tetrachloroethane, 2-methoxy-2-methylpropane (MTBE), naphthalene
65, 75	Acenaphthene, acenaphthylene, anthracene, benzo/a/anthracene, benzo/b/fluoranthene, benzo/k/fluoranthene, benzo/ghi/perylene, benzo/a/pyrene, dibenzo/a,h/anthracene, phenanthrene, fluorene, fluoranthene, chrysene, indeno/1,2,3-cd/pyrene, naphthalene, pyrene
68, 69	PCB-28, PCB-52, PCB-101, PCB-118, PCB-138, PCB-153, PCB-180
70	1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, 1,3,5-trichlorobenzene, 1,2,5,6-tetrachlorobenzene, 1,2,4,6-tetrachlorobenzene, 1,2,3,4-tetrachlorobenzene, pentachlorobenzene, hexachlorobenzene, alpha-HCH, beta-HCH, gamma-HCH, delta-HCH, heptachlor, heptachlor epoxide, alachlor, aldrin, dieldrin, endrin, isodrin, trifluralin, p,p'-DDE, p,p'-DDD, p,p'-DDT, o,p-DDE, o,p-DDD, o,p-DDT, methoxychlor
71	1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, 1,3,5-trichlorobenzene, 1,2,3,5-tetrachlorobenzene, 1,3-butadiene, 1,1,2,3,4,4-hexachloro, pentachlorobenzene, hexachlorobenzene, alpha-HCH, beta-HCH, gamma-HCH, delta-HCH, heptachlor, alachlor, aldrin, dieldrin, isodrin, trifluralin, p,p'-DDE, p,p'-DDD, p,p'-DDT, o,p-DDE, o,p-DDD, o,p-DDT, methoxychlor, isoproturon, chlorotoluron, diuron, metoxuron, desethylatrazine, propazine, methabenzthiazuron, atrazine, monolinuron, terbutylazine, simazine, metobromuron, prometryn, metolachlor, chlorpyrifos, linuron, cyanazine, metazachlor, hexazinone
74, 76	Acenaphthene, anthracene, benzo/a/anthracene, benzo/b/fluoranthene, benzo/k/fluoranthene, benzo/ghi/perylene, benzo/a/pyrene, dibenzo/a,h/anthracene, phenanthrene, fluorene, fluoranthene, chrysene, indeno/1,2,3-cd/pyrene, naphthalene, pyrene
77	Atrazine, atrazine-desethyl, hexazinon, simazine, cyanazine, methabenzthiazuron, chlorotoluron, diuron, isoproturon, metazachlor, metolachlor, sebutylazine, propazine, terbutylazine, prometryn
78	Atrazine, simazine, methabenzthiazuron, chlorotoluron, propazine, prometryn
82	Phenol, 2-chlorophenol, 3-chlorophenol, 4-chlorophenol, 2,3-dichlorophenol, 2,4-dichlorophenol, 2,5-dichlorophenol, 2,6-dichlorophenol, 3,4-dichlorophenol, 3,5-dichlorophenol, 2,4,5-trichlorophenol, 2,4,6-trichlorophenol, 2,3,4-trichlorophenol, 2,3,5-trichlorophenol, 3,4,5-trichlorophenol, 2,3,4,5-tetrachlorophenol, 2,3,5,6-tetrachlorophenol, 2,3,4,6-tetrachlorophenol, pentachlorophenol, 2-methylphenol, 3-methylphenol, 4-methylphenol, 2,3-dimethylphenol, 2-naphthol
85	Aniline, N-ethylaniline
90, 91	bis-(2-ethylhexyl)phthalate, butylbenzylphthalate, dimethylphthalate, diethylphthalate, di-n-butylphthalate, di-n-octylphthalate
92, 93, 94, 98, 99, 100	Ag, Al, As, Ba, Be, Bi, B, Cd, Ca, Cr, Co, Cu, K, Li, Fe, Mg, Mn, Mo, Na, Ni, P, Pb, Rb, Sb, Se, Sn, Sr, Ti, V, W, Zn
213	Benzene, toluene, ethylbenzene, xylenes, styrene, chlorobenzene, 1,2-dichlorobenzenene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,1,2-trichloroethene (TCE), 1,1,2,2-tetrachloroethene (PCE), 1,1-dichloroethene, 1,2-cis-dichloroethene, 1,1-dichloroethane, 1,2-dichloroethane, dichloromethane, trichloromethane, tetrachloromethane, bromodichloromethane, dibromochloromethane, bromoform, 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,1,1,2-tetrachloroethane, 1,1,2,2-tetrachloroethane, 2-methoxy-2-

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Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)
	methylpropane (MTBE), tert-butyl ethylether (ETBE), naphthalene, acetone, 2-butanol, 2-propanol, ethylacetate, butylacetate, propylbenzene, 1,2,3-trimethylbenzene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, methylethylketon
223	NH ₃ , C ₆ H ₆ , Cl ₂ , HCl, HF, HCHO, HNO ₃ , NO ₂ , SO ₂ , CO, CO ₂ , NO _x , O ₃ , H ₂ S, PCE, TCE
224	Formaldehyde, acetaldehyde, acrolein, acetone, propionaldehyde, crotonaldehyde, methacrolein, methylethylketone, butyraldehyde, benzaldehyde, valeraldehyde, m-tolulaldehyde, hexaldehyde

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (tested subject)
1, 6, 12, 15-24, 27-29, 31-36, 41, 44, 47, 48, 55, 56, 59, 60, 61, 63, 66, 68, 70, 74, 76, 79, 81, 83, 84, 90, 92, 95, 96, 98, 102-106, 219	Water - drinking water including water for the production of drinking water and bottled water, surface water, ground water, waste water
12, 15, 17, 18, 20, 21-24, 27-29, 31-36, 41, 44, 47, 55, 56, 59, 61, 66, 68, 70, 74, 76, 79, 81, 82, 92, 96, 98, 102-104, 219, 350 - 354	Aqueous extract of waste according to Decree No. 294/2005 Coll. and Decree No. 273/2021 Coll. on the conditions of waste deposition onto landfills
300, 306, 308, 311, 312	Mineral water - a source of water for filling swimming pools for medical purposes according to Decree No. 423/2001 Coll.
11, 13, 14, 25, 30, 42, 45, 47, 62, 64, 65, 67, 69, 71, 75, 80, 88, 89, 91, 93, 99, 101, 304	Sludge - definition according to Act No. 541/2020 Coll., on waste, sludge, treated sludge, water treatment plant sludge, control of efficiency of water treatment plant sludge sanitation
11, 13, 14, 25, 30, 42, 45, 47, 52, 53, 58, 62, 64, 65, 67, 69, 71, 75, 80, 88, 89, 91, 93, 99, 101, 350-355	Waste - definition according to Act No. 541/2020 Coll., on waste, waste processed according to Decree No. 294/2005 Coll., Decree No. 8/2021 Coll., Decree No. 257/2009 Coll., Decree No. 273/2021 Coll.
1-4, 6-10, 22, 44, 49, 51, 59, 60, 79, 83, 92, 96, 98, 300 - 303, 306-308, 311-313	Bathing water – artificial water reservoirs (swimming and bathing pools, pools for sucklings and toddlers, sauna cooling pools) and natural bathing places and other surface water for bathing
11, 13, 14, 25, 30, 42, 45, 47, 52, 53, 58, 62, 64, 65, 67, 69, 71, 75, 78, 80, 88, 89, 91, 93, 99, 101, 350-355	Soil – definition according to ČSN EN ISO 14688-1, soil processed according to Decree No. 294/2005 Coll., Decree No. 94/2016 Coll., Decree No. 257/2009 Coll., Decree No. 273/2021 Coll.

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Ordinal test number	Detailed information on activities within the scope of accreditation (tested subject)
3-5, 7, 9, 10, 26, 39, 50, 51, 54, 300, 306, 308, 311, 312, 317	Bottled water - according to Decree No. 275/2004 Coll.
227, 229	Materials from construction – materials from construction (demolished material, recycle, disposed building materials)
227, 229	Building materials – new or unused building materials and raw materials for their production

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (source literature)
221	TP 189 Determination of traffic volumes on roads, September 2018; Calculation of road traffic noise, Methodology Update Manual 2018 version 2020

Sampling:

Ordinal number	Sampling procedure name	Sampling procedure identification ¹	Subject of sampling
1 ¹	Drinking water sampling	SOP - V-01 (ČSN EN ISO 5667-1; ČSN EN ISO 5667-3; ČSN ISO 5667-5; ČSN EN ISO 5667-14; ČSN EN ISO 19458; Decree No. 252/2004 Coll.)	Drinking water, bottled water
2 ¹	Waste water sampling - manual and by automatic sampler	SOP - V-02 (ČSN EN ISO 5667-1; ČSN EN ISO 5667-3; ČSN ISO 5667-10; ČSN EN ISO 5667-14)	Industrial and sewage waste water
3 ¹	Manual sampling of sludge from WWTP	SOP - V-03 (ČSN EN ISO 5667-1; ČSN EN ISO 5667-13; ČSN EN ISO 5667-15)	Dewatered sludge from WWTP
4 ¹	Sampling of Soils and solid waste	SOP - V-04 (TNI CEN/TR 15310-1; TNI CEN/TR 15310-2; TNI CEN/TR 15310-3; TNI CEN/TR 15310-4; TNI CEN/TR 15310-5)	Solid waste

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Ordinal number	Sampling procedure name	Sampling procedure identification¹	Subject of sampling
5 ¹	Sampling of sediments	SOP-V-05 (ČSN EN ISO 5667-1; ČSN ISO 5667-12; ČSN EN ISO 5667-14; ČSN EN ISO 5667-15)	Sediments
6 ¹	Ground water sampling - manual and with pressure pump	SOP-V-06 (ČSN EN ISO 5667-1; ČSN EN ISO 5667-3; ČSN ISO 5667-11; ČSN EN ISO 5667-14)	Ground water
7 ¹	Manual sampling of surface water	SOP-V-07 (ČSN EN ISO 5667-1; ČSN EN ISO 5667-6; ČSN ISO 5667-4; ČSN EN ISO 5667-14)	Surface water
8 ¹	Bathing water sampling	SOP - V-08 (ČSN EN ISO 5667-1; ČSN EN ISO 5667-3; ČSN EN ISO 5667-14; ČSN EN ISO 19458; Decree No. 238/2011 Coll.)	Artificial bathing places
9 ¹	Sampling of water from natural bathing places	SOP - V-09 (ČSN EN ISO 19458; ČSN EN ISO 5667-1; ČSN EN ISO 5667-3; ČSN ISO 5667-4; ČSN EN ISO 5667-6; ČSN EN ISO 5667-14; ČSN 75 7712; ČSN 75 7717; ČSN 75 7340; Decree No. 238/2011 Coll.)	Natural bathing places
10 ²	Sampling of building materials for qualitative determination of asbestos and other fibres	SOP-V-10 (VDI 3866 Part I)	Construction materials, materials from construction
11 -19	Reserved		
20 ²	Gas and vapour sampling by absorption into liquid	SOP - V-20 (ČSN EN 1911; ČSN 83 4728-1; ČSN 83 4728-2; ČSN P CEN/TS 17340; ČSN EN 14791;	Emissions

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Píšťovy 820, Chrudim III, 537 01 Chrudim

Ordinal number	Sampling procedure name	Sampling procedure identification ¹	Subject of sampling
		ČSN 83 4711-1; ČSN 83 4711-2; Sanitary Regulation No. 52, ČSN 83 4712-1; ČSN 83 4712-2; ČSN ISO 6703-2; GR No. 361/2007 Coll.)	
21 ²	Sampling of gases and vapours by sorption on a solid sorbent	SOP - V-21 (ČSN P CEN/TS 13649)	Emissions
22 ²	Sampling of solid pollutants (isokinetic sampling with automatic isokinetic control)	SOP-V-22 (ČSN EN 13284-1; ČSN EN ISO 16911-1; ČSN ISO 9096:1998)	Emissions
23 ²	Sampling of solid pollutants (isokinetic sampling with manual isokinetic control)	SOP-V-23 (ČSN EN 13284-1; ČSN EN ISO 16911-1; ČSN ISO 9096:1998)	Emissions
24 ²	Sampling for the determination of heavy metals (As, Cd, Be, Cr, Co, Ni, Tl, Se, Te, Sb, Sn, Mn, Cu, Pb, V, Zn, Al, Hg) - isokinetic sampling with automatic manual isokinetic control and absorption into a liquid	SOP-V-24 (ČSN EN 13284-1; ČSN ISO 9096:1998; ČSN EN 14385; ČSN EN 13211; EPA Method 29)	Emissions
25 ²	Sampling for the determination of persistent organic compounds POPs - isokinetic sampling with automatic, manual isokinetic control, filtration-condensation method	SOP-V-25 (ČSN EN 13284-1; ČSN EN 1948-1; ČSN EN 1948-4+A1; ISO 11338-1:2003)	Emissions
26 ²	Sampling of air for the determination of gases and vapours	SOP - V-26 (ČSN EN 482; ČSN EN 689+AC; ČSN EN ISO 16000-1; ČSN EN ISO 16000-2; ČSN EN ISO 16000-5; ČSN EN ISO 16000-11; ČSN EN ISO 16017-1; GR No. 361/2007 Coll.; Decree No. 6/2003 Coll.)	Working, indoor and outdoor air

**The Appendix is an integral part of
Certificate of Accreditation No. 51/2024 of 05/02/2024**

Accredited entity according to ČSN EN ISO/IEC 17025:2018:

BIOANALYTIKA CZ, s.r.o.
CAB number 1012, Laboratory Chrudim
Píšťovy 820, Chrudim III, 537 01 Chrudim

Ordinal number	Sampling procedure name	Sampling procedure identification ¹	Subject of sampling
27 ²	Sampling of air for the determination of dust content and aerosols	SOP - V-27 (ČSN EN 481; ČSN EN 482; ČSN EN 689+AC; ČSN EN ISO 16000-1; Gov. Decree No. 361/2007 Coll.; Decree No. 6/2003 Coll.)	Working, indoor and outdoor air
28 ²	Air sampling into tedlar bags	SOP - V-28 (ČSN EN 482; ČSN EN 689+AC; Decree No. 6/2003 Coll.)	Emissions, working, indoor and outdoor air
29 ¹	Soil air sampling	SOP-V-29 (MoE Guideline; Sampling in Rehabilitation Geology, chap. III.10 Sampling of air and air mass, 2006)	Soil air
30 ²	Air sampling for the determination of the numerical concentration of mineral fibers, including asbestos	SOP - V-30 (ČSN EN ISO 16000-7; GR No. 361/2007 Coll.; Decree No. 6/2003 Coll.)	Working, indoor and outdoor air

¹ if the document identifying the sampling procedure is dated, only these specific procedures are used. If the document identifying the sampling procedure is not dated, the latest edition of the specified procedure is used (including any changes)

² superscript at the sampling ordinal number identifies the number of the location carrying out the sampling (the locations are identified on the first page of the document)

Explanatory notes:

Emissions: waste gas containing pollutants released in a controlled manner or leaking into atmosphere from air pollution sources

AAS Atomic Absorption Spectrometry

ETA Electrothermal Atomisation

GC/MS Gas Chromatography/Mass Spectrometry

HPLC High-Performance Liquid Chromatography

ICP/MS Inductively Coupled Plasma Mass Spectrometry