

**The Appendix is an integral part of
Certificate of Accreditation No. 340/2023 of 23/06/2023**

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

Technické služby ochrany ovzduší Praha a.s.
CAB number 1461, Testing Laboratory for Measuring Pollutants
Jenečská 146/44, 161 00 Prague 6

Tests:

Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Subject of the test	Degrees of freedom ³
1	Determination of mass concentration of solid pollutants, PM10 and PM2.5 fractions by gravimetry	IP 100 (ISO 9096; ČSN EN 13284-1; ČSN EN ISO 23210)	Emissions	-
2*	Determination of mass concentration of gaseous components (NO, NO ₂ , SO ₂ , CO ₂ , CO) by NDIR method	IP 200a (ISO 10396; ČSN EN 15259; ČSN ISO 10849; ČSN ISO 7935; ČSN P CEN/TS 17021; ČSN EN 15058; ČSN P CEN/TS 17405; ISO 11042-1)	Emissions	-
3*	Determination of mass concentration of gaseous components (NO and NO ₂ by chemiluminescence method	IP 200b (ISO 10396; ČSN EN 15259; ČSN EN 14792; ISO 11042-1)	Emissions	-
4*	Determination of mass concentration of gaseous components (TOC) by FID method	IP 200c (ISO 10396; ČSN EN 15259; ČSN EN 12619; ISO 11042-1)	Emissions	-
5*	Determination of the volume concentration of gaseous components (O ₂) the paramagnetic method	IP 200d (ISO 10396; ČSN EN 15259; ČSN EN 14789; ISO 11042-1)	Emissions	-
6*	Determination of mass and volume concentration of gaseous components (NO, NO ₂ , CO, O ₂) by electrochemical method	IP 200e (ČSN EN 50379-1; ČSN EN 50379-2; ISO 11042-1)	Emissions	-
7*	Determination of the velocity and volume flow rate	IP 300 (ČSN EN 15259; ČSN EN ISO 16911-1)	Emissions	-

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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Subject of the test	Degrees of freedom ³
8	Determination of volume flowrate by balance calculation from element analysis and amount of burned fuel	IP 300 - 02 (OTN ŽP 2008)	Emissions	-
9*	Determination of water vapour in ducts by condensation-absorption, condensation and electrical capacitance method	IP 400 (ČSN EN 15259; ČSN EN 14790)	Emissions	-
10	Determination of the mass concentration of gases and vapours (SO ₂ , HCl, HF, ammonia, sulphane, Cl ₂ , HCN, total reduced sulphur - TRS) taken into liquid by calculation from the measured values ⁴	IP 568a (ČSN EN 14791; ČSN ISO 7934; ČSN EN 1911; ČSN P CEN/TS 17340; ISO 15713; ČSN EN ISO 21877; ČSN 83 4712-1; ČSN 83 4751-3; EPA OTM-29; EPA Method 16A)	Emissions	-
11	Determination of the mass concentration of metals (As, Cd, Cr, Co, Cu, Mn, Ni, Pb, Sb, Tl, V, Hg, Cr ⁶⁺ , Be, Se, Zn, Sn, Te) by the calculation from measured values ⁴	IP 568b (ČSN EN 14385; ČSN EN 13211; EPA Method 0061; EPA Method 29)	Emissions	-
12	Determination of the mass concentration of persistent organic compounds (PCDD/PCDF, PCB, PAH) by calculation from measured values ⁴	IP 700 (ČSN EN 1948-3; ČSN EN 1948-4+A1; ISO 11338)	Emissions	-
13	Determination of the mass concentration of volatile organic compounds (VOC) collected on solid sorbent by calculation from measured values ⁴	IP 568c (ČSN P CEN/TS 13649; ČSN EN ISO 16017-1)	Emissions, Immissions	-

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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Subject of the test	Degrees of freedom ³
14	Determination of concentration of odour substances by dynamic olfactometry	IP 1000 (ČSN EN 13725)	Emissions, Immissions	-
15*	Quality assurance of automated measuring systems	IP 1100 (ČSN EN 14181, p. 6, QAL2, p. 8 AST)	Automated emission measuring systems	-
16	Determination of the mass concentration of TSD by gravimetry and of the PM10 and PM2.5 fractions by calculation from measured values ⁴	IP 2100 (ČSN ISO 7708; ČHMÚ 1997 MP 11; ČSN EN 12341)	Immissions	-
17*	Determination of mass concentration of gaseous components (NO, NO ₂ , N ₂ O, SO ₂ , CO, CO ₂ , H ₂ O, HCl, NH ₃ , CH ₄) by FTIR method	IP 200f (ISO 10396; ČSN EN 15259; ČSN P CEN/TS 17337)	Emissions	-

¹ asterisk at the ordinal number identifies the tests, which the Laboratory is qualified to carry out outside the permanent laboratory premises

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 edition of the specified procedure is used (including any changes)

³ the laboratory does not apply a flexible approach to the scope of accreditation

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

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Sampling:

Ordinal number	Sampling procedure name	Sampling procedure identification ¹	Subject of sampling
1	Sampling of solid pollutants, PM10 and PM2.5 fractions (isokinetic sampling with automatic or manual isokinetic control)	IP 100, chapter 7.5 (ISO 9096; ČSN EN 13284-1; ČSN EN ISO 23210)	Emissions
2	Sampling of gases and vapours (SO ₂ , HCl, HF, ammonia, sulphane, Cl ₂ , HCN, total reduced sulphur – TRS) by liquid absorption	IP 568, Annex 2 (ČSN EN 14791; ISO 7934; ČSN EN 1911; ČSN P CEN/TS 17340; ISO 15713; ČSN EN ISO 21877; ČSN 83 4712-2; ČSN 83 4751:1988; EPA OTM-29; EPA Method 16A)	Emissions
3	Sampling of metals (As, Cd, Cr, Co, Cu, Mn, Ni, Pb, Sb, Tl, V, Hg, Cr ⁶⁺ , Be, Se, Zn, Sn, Te) (isokinetic sampling with automatic or manual isokinetic control)	IP 568, Annex 3 (ČSN EN 14385; ČSN EN 13211; EPA Method 0061; EPA Method 29)	Emissions
4	Sampling of persistent organic compounds (PCDD/PCDF, PCB, PAH) by dilution method (isokinetic sampling with automatic or manual isokinetic control)	IP 700, chapter 7.5 (ČSN EN 1948-1; ČSN EN 1948-4+A1; ISO 11338-1)	Emissions
5	Sampling of volatile organic compounds (VOC) by capture on a solid sorbent	IP 568, Annex 4 (ČSN P CEN/TS 13649; ČSN EN ISO 16017-1)	Emissions, Immissions
6	Sampling of odour substances	IP 1000, chapter 7 (ČSN EN 13725)	Emissions, Immissions

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Ordinal number	Sampling procedure name	Sampling procedure identification ¹	Subject of sampling
7	Sampling for the determination of mass concentration of TSD, PM10 fraction and PM2.5 fraction	IP 2100, chapter 6 (ČSN ISO 7708; ČHMÚ 1997 MP 11; ČSN EN 12341)	Immissions

¹ for dated documents identifying sampling procedures, only those specific procedures are used; for undated documents identifying sampling procedures, the most recent edition of that procedure (including any changes) is used

Explanatory notes:

Emission	Waste gas containing pollutants released in a controlled manner or leaking into atmosphere from air pollution sources
FID	Flame Ionization Detection
FTIR	Fourier Transformation Infrared Spectrometry
IP	internal regulation
NDIR	Nondispersive Infrared Spectrometry
OTN ŽP	Branch technical standard of MoE SR
PAH	Polycyclic Aromatic Hydrocarbons
PCB	Polychlorinated Biphenyls
PCDD/PCDF	Polychlorinated Dibenzodioxins/Polychlorinated Dibenzofurans
PM10, PM2.5	Aerosol with particle sizes 10µm and 2.5µm
TESO	Registered trademark of Technické služby ochrany ovzduší
TOC	Total Organic Carbon
TSD	Total Suspended Dust