


Specification of activities carried out in the laboratory sampling

Item	Object			Method		Other specifications
	Subject	Property	Sampling site	Type / Principle	Marking	
1	Waste gas ²⁾	particulate matter (PM)	Pipeline/ stationary source of pollution	gravimetric method - isokinetic sampling	STN EN 13284-1 (SMEP-08-IPP)	Notes: 1), 3), 4), 5)
2	Waste gas ²⁾	fraction of particulate matter PM ₂₅ and PM ₁₀	Pipeline/ stationary source of pollution	gravimetric sampling at a constant flow, impaction method	STN EN ISO 23210 (SMEP-08-IPP)	Notes: 1), 4)
3	Waste gas ²⁾	darkness of smoke Bacharach degree	Pipeline/ stationary source of pollution	collection onto a filter	STN ISO 11042-1 art. 7.8 ⁷⁾ (SMEP -16-IPP)	Notes: 1), 3)
4	Waste gas ²⁾	humidity of the gas in the pipeline	Pipeline/ stationary source of pollution	gravimetry (adsorption / condensation-adsorption)	STN EN 14790 (SMEP-04-IPP)	Notes: 1), 3), 4)
5	Waste gas ²⁾	fluorides expressed as F ⁻ in solid state	Pipeline/ stationary source of pollution	collection onto a filter	Met. EPA 13A,B, STN EN 13284-1 (SMEP-07-IPP SMEP-08-IPP)	Notes: 1), 3), 4), 5), 6)
6	Waste gas ²⁾	cyanides expressed as CN ⁻ in the solid state	Pipeline/ stationary source of pollution	collection onto a filter	EPA CTM 033 STN EN 13284-1 (SMEP-07-IPP SMEP-08-IPP)	Notes: 1), 3), 4), 5), 6)
7	Waste gas ²⁾	chlorides expressed as Cl ⁻ in the solid state	Pipeline/ stationary source of pollution	collection onto a filter	STN EN 13284-1 (SMEP-07-IPP SMEP-08-IPP)	Notes: 1), 6)
8	Waste gas ²⁾	metals, semimetals and their compounds:	Pipeline/ stationary source of pollution	sampling onto the filter and parallel sampling in the sorption solutions	EPA Met.29 (SMEP-07-IPP)	Notes: 1), 3), 4), 5), 6)
		selenium and compounds expressed as Se				
		tellurium and compounds expressed as Te				
		beryllium and compounds expressed as Be				
		tin and compounds expressed as Sn			EPA Met.29 STN EN 14385 (SMEP-07-IPP)	Notes: 1), 3), 4), 5), 6)
		zinc and compounds expressed as Zn				
		cobalt and compounds expressed as Co				
		nickel and compounds expressed as Ni				
		thallium compounds expressed as Tl				
		cadmium and compounds expressed as Cd				
arsenic and compounds expressed as As						
8	Waste gas ²⁾	antimony and compounds expressed as Sb	Pipeline/ stationary source of pollution	sampling onto the filter and parallel sampling in the sorption solutions	EPA Met.29 STN EN 14385 (SMEP-07-IPP)	Notes: 1), 3), 4), 5), 6)
		chromium and compounds expressed as Cr (except Cr ^{VI})				
		manganese and compounds expressed as Mn				
		copper and compounds expressed as Cu				
		lead and compounds expressed as Pb				
		vanadium and compounds expressed as V				
		mercury and compounds expressed as Hg				





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8	Waste gas ²⁾	Cr ^{VI} compounds expressed as Cr (except barium chromate and lead chromate)			EPA Met.0061 (SMEP-07-IPP)	Notes: 1), 3), 4), 5), 6)
		other metals, semimetals and their compounds: Ag, Al, B, Bi, Ca, Fe, K, Li, Mg, Mo, Na, P, S, Si, Sr, Ti		sampling onto the filter, sampling in the sorption solution	STN EN 13211 EPA Met.29 STN EN 14385 (SMEP-07-IPP)	Notes: 1), 6)
9	Waste gas ²⁾	gaseous inorganic substances:	Pipeline/ stationary source of pollution	sampling into the sorption solutions		
		fluorine and its gaseous compounds expressed as HF			STN ISO 15713 STN 83 4752 (SMEP-07-IPP)	Notes: 1), 3), 4), 5), 6)
		sulphide			STN 83 4712 (SMEP-07-IPP)	Notes: 1), 3), 4), 5), 6)
		ammonia and its gaseous compounds as NH ₃			STN 83 4728 (SMEP-07-IPP)	Notes: 1), 3), 4), 5), 6)
		gaseous inorganic chlorine compounds as HCl			STN EN 1911 (SMEP-07-IPP)	Notes: 1), 3), 4), 5), 6)
		chlorine and chlorine oxides expressed as Cl			STN 83 4751 (SMEP-07-IPP)	Notes: 1), 3), 4), 5), 6)
		sulphur oxides (SO _x) - sulphur dioxide, sulphur trioxide and aerosol H ₂ SO ₄ expressed as sulphur dioxide (SO ₂)			STN 83 4711 (SMEP-07-IPP)	Notes: 1), 3), 4), 5), 6)
		sulphur dioxide SO ₂ including the proportion of SO ₃ expressed as sulphur dioxide (SO ₂)	Pipeline/ stationary source of pollution	sampling into the sorption solutions	STN EN 14791 (SMEP-07-IPP)	Notes: 1), 3), 4), 5), 6)
		hydrogen cyanide HCN			EPA CTM 033 (SMEP-07-IPP)	Notes: 1), 3), 4), 5), 6)



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10	Waste gas ²⁾	organic gases and vapours:	Pipeline/ stationary source of pollution	sampling into the sorption solutions	EPA 0011 (SMEP-07-IPP)	Notes: 1), 3), 4), 5), 6)
		acetaldehyde				
		formaldehyde				
		furfural				
		benzaldehyde				
		butylaldehyde				
		glutaraldehyde				
		toluene				Notes: 1), 6)
		ethylbenzene				
		tetrachloroethene				
		styrene				
		acetone				
		isopropylbenzene				
		dichloromethane				
		1,4-dichlorobenzene				
		benzene				
		trichlorethylene				
		tetrachloroethane				
		tetrachlorethylene				
		nitrobenzene				
		trichloromethane		sampling on the solid sorbent, sampling in the bag	STN EN 13649 EPA Met.0040 (SMEP-07-IPP)	Notes: 1), 3), 4), 5), 6)
		nitrotoluene				
		3-ethyltoluene				
		chloromethane				
		carbon tetrachloride				
		trimethylbenzene				
		chlorobenzene				
		xylene				
		2-butanone				
		1,2-dibromoethane				
		ethylene chlorohydrine				
		epichlorohydrin				
		ethylene oxide				
		propylene oxide				
		alkenes (olefins)				
		alkanes (paraffins) except methane				
		vinyl chloride				
		propylene chlorohydrin	Pipeline/ stationary source of pollution	sampling on the solid sorbent, sampling bag	STN EN 13649 EPA Met.0040 (SMEP-07-IPP)	Notes: 1), 2), 3), 4), 5), 6)
		acrylonitrile				
		1,3-butadiene				
		carbon disulphide				



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10	Waste gas ²⁾	1,2 dichloroethane	Pipeline/ stationary source of pollution	sampling on the solid sorbent, sampling bag	STN EN 13649 EPA Met.0040 (SMEP-07-IPP)	Notes: 1), 2), 3), 4), 5), 6)
		1,1 dichloroethylene				
		chloroethane				
		1,1 dichloroethane				
		1,2-dichloroethylene				
		4-hydroxy-4-methyl- 2-pentanone				
		4-methyl-2-pentanone				
		2-chloropropane				
		methyl methacrylate				
		ethyl acrylate				
		methyl acrylate				
		methyl acetate				
		vinyl acetate				
		butyl acetate				
		ethyl acetate				
		dibutyl ether				
		diethyl ether				
		diphenyl ether				
		diisopropyl ether				
		pyridine				
		cyclohexanone				
		cresol				
		phenol		sampling on the solid sorbent	STN EN 13649 (SMEP-07-IPP)	Notes: 1), 3), 4), 5), 6)
		nitrocresols				
		nitrophenols				
		ethanolamine				
		alkyl alcohols				
		cyclic alcohols				
		toluidine				
		dimethylamine				
		diethylamine				
		aniline				
		mercaptans, organic compounds containing reduced sulphur		sampling into the sorption solutions	EPA met. 16A (SMEP-07-IPP)	Notes: 1), 3), 4), 5), 6)
		formic acid		sampling in the solution, sampling on the solid sorbent	VDI2457 B 1.4 STN EN 13649 (SMEP-07-IPP)	Notes: 1), 3), 4), 5), 6)
		acetic acid				
11	Waste gas ²⁾	polyaromatic hydrocarbons (PAHs):	Pipeline/ stationary source of pollution	isokinetic sampling on the filter and sampling in the gas state on a solid sorbent	STN ISO 11338 STN EN 13284-1 (SMEP-07-IPP)	Notes: 1), 3), 4), 5), 6)
		benzo(a)pyrene				
		dibenz[a,h]anthracene				
		naphthalene				
		2-naphthylamine				
12	Waste gas ²⁾	polychlorinated dibenzo-p-dioxins (PCDDs) and polychlorinated dibenzofurans (PCDFs)	Pipeline/ stationary source of pollution	isokinetic sampling, filtering and condensing method	STN EN 1948-1 (SMEP-17-IPP)	Notes: 1), 3), 4), 5), 6)
		polychlorinated biphenyls (PCBs)				Notes: 1), 3), 4), 5), 6)
13	Solid and bulk materials	organic substances, expressed as total carbon (TOC) - content in the residual cinders and lower ash from the incineration of waste (fuel)	The waste incineration plant	manual sampling	STN EN 13137 (SMEP-03-IPP)	Notes: 1), 8), 9),
		combustible share in the residual cinders and lower ashes expressed as loss on ignition of the combustion of waste (fuel)			STN EN 15169 (SMEP-03-IPP)	Notes: 1), 8), 9),



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13	Solid and bulk materials	metals in unburned particles, sieve analysis, physico-chemical properties of the fuel (unburned particles), melting temperature of ash (potassium content)	Heaps and equipment	manual sampling	STN 01 5111 STN 01 5110	Notes: 1), 9)
14	Solid and liquid materials from the production of polyvinyl-chloride	vinyl chloride (residual content in the product, homopolymers, copolymers, micropolymers, polymer emulsions)	Production of polyvinyl chloride		SMEP-03-IPP	Notes: 1), 8), 9)
15	Liquid materials	Physical and chemical characteristics	Tanks, transport pipelines	Point and decanted samples	STN 65 0512 (SMEP-03-IPP)	Notes: 1), 9)

Notes – Table explanation:

- 1) NI – opinions and interpretations.
- 2) Discontinuous emission measurements according to STN EN 15259.
- 3) Sphere of application – environmental protection, subject area of eligible measurement under Section 20 (1a1) of the Act no. 137/2010 Coll. on air, as amended by Act no. 318/2012 Coll.
- 4) Sphere of application – environmental protection, subject area of eligible measurement under Section 20 (1a3) of the Act no. 137/2010 Coll. on air, as amended by Act no. 318/2012 Coll.
- 5) Sphere of application – environmental protection, subject area of eligible measurement under Section 20 (1a5) of the Act no. 137/2010 Coll. on air, as amended by Act no. 318/2012 Coll.
- 6) Calculation of the mass concentration of the analyte in the waste gas or raw gas based on the amount of analyte in the sample determined by a testing accredited laboratory: EKOLAB s. r. o., Košice, Company ID number 31 684 165.
- 7) STN ISO 11042-1 applies to gas turbines.
- 8) Sphere of application – environmental protection, subject area of eligible measurement under Section 20 (1a5) of the Act no. 137/2010 Coll. on air, as amended by Act no. 318/2012 Coll., execution of activity at the customer's.
- 9) analytical determination is carried out by accredited laboratory EKOLAB, s. r. o., Košice, Company ID number 31 684 165.

Persons qualified to express opinions and interpretations (sampling)

Name and surname, degree	Capacity to express opinions and interpretations - - activity specification scope item number
Ing. Juraj Běl	item 1 to 13 and 15
Ing. Miroslav Boroš	item 1 to 13 and 15
Ing. Attila Farkas	item 1 to 7
Ing. Martin Chovanec	item 1 to 15
Ing. Ignác Kožej	item 1 to 15
Ing. Tomáš Kuskulič, PhD.	item 1 to 15
Bc. Gabriel Molnár	item 1 to 15
Ing. Jaroslav Smolej	item 1 to 15
Ing. Miloš Varga	item 1 to 15

