Hellenic Accreditation System

Annex F1/24 to the Certificate No. **329**-7

SCOPE of ACCREDITATION

of the

Laboratory

of

ALFA MEASUREMENTS A.TSIPOURI-N.CHATZIFOTIS & SIA OE

Tested materials/ products	Types of test/ Properties to be measured	Applied Standards/ Techniques to be used
	Sampling	
Stack emissions from stationary sources	Sampling for the determination of PCDDs/PCDFs and dioxin-like PCBs	ELOT EN 1948-1:2006 ELOT EN 1948-4:2010+A1:2013
	Sampling for the determination of As, Cd, Cr, Co, Cu, Mn, Ni, Pb, Sb, Tl and V.	ELOT EN 14385:2004
	Sampling for the determination of total Hg	ELOT EN 13211:2001/AC:2005
	Sampling for the determination of the mass concentration of individual gaseous organic compounds	CEN/TS 13649:2014
	Sampling for the determination of gas and particle-phase polycyclic aromatic hydrocarbons	ISO 11338-1:2003
Indoor, ambient and workplace air	Sampling of volatile organic compounds	EN ISO 16017-1:2002
Air Quality	Sampling for the determination of PCDDs/PCDFs and PCBs in the ambient air	EPA TO-9[A]
	Standard method for sampling for the measurement of Pb, Cd, As and Ni in the PM10 fraction of suspended particulate matter	ELOT EN 14902:2005/AC:2006

	Standard method for the sampling for the measurement of the concentration of benzo(a)pyrene in ambient air	ELOT EN 15549:2008
	Sampling for the determination of total (gas and particle phase) polycyclic aromatic hydrocarbons	ISO 12884:2000
	Standard method for sampling for the measurement of benzene concentrations Pumped sampling Diffusive sampling	 ELOT EN 14662.02:2005 ELOT EN 14662.05:2005
	Sampling and Physical tests	
Stack emissions from stationary sources	Isokinetic sampling and determination of mass concentration of particulate matter	ISO 9096:2017 EN 13284-01:2017
	Sampling and determination of emissions of PM10 and PM2,5 particles	VDI 2066-10:2004 ISO 9096:2017 EN 13284-01:2017 ISO 23210: 2009
	Sampling and measurement of velocity and volume flow rate of effluent gas	ISO 10780:1994
	Stationary source emissions – Manual and automatic determination of velocity and flow rate in ducts. Part 1: Manual reference method	EN ISO16911:2013
	Water-tube boilers and auxiliary installations Part 15: Acceptance tests (velocity and volume flow rate)	EN 12952-15:2003
	Sampling and determination of humidity	EN 14790:2017
Air quality	Optical estimation of darkness of smoke evolving from chimney with use of RINGLEMANN chart	ELOT 815:1986
	Determination of the environmental sound level of installations and other noise sources	EN-IEC 61672-1:2013 ISO 1996-2:2017 ELOT EN ISO 11201:2010
	Standard gravimetric measurement method for the determination of the PM10 or PM2,5 mass concentration of suspended particulate matter	ELOT EN 12341:2014
Workplace atmospheres	Measurement of airborne particles (inhalable and respirable dust)	ELOT EN 481:1994 EN ISO 13137:2013 PD 307/1986 PD 77/1993 PD 90/1999
	Determination of noise exposure and occupational noise	ELOT EN ISO 11201:2010 EN ISO 9612:2009

	Sampling and Chemical tests	
Stack emissions from stationary sources	Sampling and determination of O_2, CO_2, CO, SO_2, NO_x, N_2O	ISO 10396:2007 ISO 12039:2019 ISO 7935:1992 ISO 10849:2022 ELOT EN 14789:2017 ELOT EN 15058:2017 ELOT EN 14792:2017 ELOT EN ISO 21258:2011
	Sampling and determination of mass concentration of Sulphur dioxide - Reference method	EN 14791:2017
	Sampling and determination of mass concentration of gaseous chlorides expressed as HCl - Standard reference method	ELOT EN 1911:2010
	Sampling and determination of gaseous fluoride content	ISO 15713:2006
	Sampling and determination of ammonia (NH_3)	VDI 3878:2017
	Sampling and determination of total organic carbon (TOC) mass concentration by the continuous flame ionization method	ELOT EN 12619:2013
Air quality	Standard method for the measurement of the concentration of nitrogen dioxide and nitrogen monoxide by chemiluminescence	ELOT EN 14211:2012
	Other tests	
Stack emissions from stationary sources	Validation and performance test of automatic measurement systems*	ELOT EN 14181:2014
Cleanrooms and associated control environments	Measurement of airborne dust	ELOT EN ISO 14644-1:1999 ELOT EN ISO 14644-2:2001 ELOT EN ISO 14644-3:2007
Measurements in the vicinity of communication antennas, radio and television station antennas, mobile telephone base stations, radars, microwave wireless network stations	Measurement of high frequency electromagnetic fields (27 MHz – 3 GHz): - Electric field strength (E)	Common Ministerial Decision 2300 (EFA) 493 (Hellenic Gazette 346/B/3-3-2008) § 1-3, § 5-10 and § 4 only the Standards ELOT EN 61566: 1999 (75 MHz – 2 GHz) CEPT ECC / REC / (02) 04 (75 MHz – 3 GHz) ELOT 1422-3: 2007, Ch. 6

* *Refers to the accredited tests of the present scope*

Site of assessment: **Laboratory permanent premises, 24 Patr.Grigoriou E΄str, GR 14231, Nea Ionia, Greece.**
Approved signatories: **A.Tsipouri, N. Chatzifotis.**

This Scope of Accreditation replaces the previous one dated 10.01.2024.
The Accreditation Certificate No. **329**-7, to ELOT EN ISO/IEC 17025: 2017, is valid until 01.03.2028.

Athens, 12.02.2024

Christos Nestoras
CEO of ESYD