AQ-8 Triazines and Organophosphorus Compounds in Seawater					
Year	**2021**	**Number of Rounds / Year**	**1**	**Number of Materials**	**3**
Distribution		**April** (10 laboratories expected)			
Participation fee		**€600,=**			

Introduction

This study covers the determination of triazines and organophosphorus compounds in seawater and low salinity seawater test materials.

Test Materials

The seawater for this study is collected from the Eastern Atlantic Ocean and is filtered to remove bacteria and particles. The low salinity test material is prepared by dilution with ultra-pure demineralised water. The test materials are thoroughly mixed and dispensed into 1 litre glass bottles. These bottles are distributed together with methanol standard solutions containing the compounds to be analysed. The participants are asked to dilute the supplied standard solutions using the supplied seawater test materials to produce the spiked test materials.
Homogeneity of the test materials is assumed, as they are spiked to the same concentration level. The test materials are stable for the purposes of the exercise.

Determinands and Concentration Ranges

The triazines and organophosphorus compounds to be determined are given in the table below.
The table also shows:
- The expected concentration range for the determinands in the spiked test materials.
- The constant and proportional error that will be used for assessment of the results.

Where available the AA-EQS (EU-WFD) is given.

Determinand	Unit	Concentration range		Error		AA-EQS
		Low salinity Seawater with SS	Seawater with SS	Const	Prop	
Alachlor	ng/L	20—500	2—200	1	12.5%	300
Atrazine	ng/L	20—500	5—200	1	12.5%	600
Atrazine-desethyl	ng/L	20—500	5—200	1	12.5%	
Azinphos-ethyl	ng/L	20—500	5—200	1	12.5%	
Azinphos-methyl	ng/L	20—500	5—200	1	12.5%	
Chlorfenvinphos	ng/L	20—500	5—200	1	12.5%	100
Chlorpyriphos	ng/L	20—500	2—200	1	12.5%	30
Coumaphos	ng/L	20—500	2—100	1	12.5%	
Deltamethrin	ng/L	20—500	2—100	1	12.5%	
Demeton	ng/L	50—500	5—200	1	12.5%	
Diazinon	ng/L	20—500	5—200	1	12.5%	
Dichlorvos	ng/L	20—500	2—200	1	12.5%	0.06
Dimethoate	ng/L	20—500	5—100	1	12.5%	
Diuron	ng/L	50—500	5—200	1	12.5%	200
Fenchlorphos	ng/L	20—500	2—200	1	12.5%	
Fenitrothion	ng/L	20—500	2—200	1	12.5%	
Fenthion	ng/L	20—500	5—200	1	12.5%	
Irgarol-1051	ng/L	50—500	2—200	1	12.5%	
Isoproturon	ng/L	20—500	2—200	1	12.5%	300
Malathion	ng/L	20—500	5—200	1	12.5%	
Omethoate	ng/L	50—500	5—200	1	12.5%	
Parathion-ethyl	ng/L	20—500	5—200	1	12.5%	
Parathion-methyl	ng/L	20—500	5—200	1	12.5%	
Simazine	ng/L	20—500	5—200	1	12.5%	1000
Terbuthylazine	ng/L	20—500	5—200	1	12.5%	
Triazophos	ng/L	50—500	10—500	1	12.5%	

These determinands are not in the scope of the accreditation.