QUASIMEME

Quality assurance of information for marine environmental monitoring

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Certificate of Analysis

Triazines and organophosphorus compounds in seawater

REFERENCE MATERIAL

AQ8 sample 119

WAGENINGEN
UNIVERSITY & RESEARCH

Certificate of Analysis AQ8 119

General Information

In this report an overview is given of analytical data for this sample collected in our proficiency testing program. The consensus values are calculated using a robust statistical model. With this NDA model mean and standard deviation are calculated using all reported data when at least 4 results are left after removal of reported 'lower than' (<) and 0 (= zero) values. No outliers are removed.

This report is divided into two sections: Consensus Values and Indicative Values. The division is made on the reliability of the data. Consensus Values are based on at least 10 results while the relative uncertainty is smaller than 6.25%. Indicative Values are based on a relative uncertainty of maximum 35% with at least 4 and less than 10 results or a relative uncertainty higher than 6.25%.

For each determinand the following parameters are given: mean, standard deviation, coefficient of variation, number of results, median, MAD (Median of Absolute Deviation) and the uncertainty in the assigned value. The confidence limits (at 95 % probabilty) are calculated for these determinands.

Sample information

QUASIMEME reference materials cover a range of natural SeaWater species from contaminated waters from the North Sea and/or Mediterranean.

This AQ8 sample 119 of Low salinity seawater with spike solution from North Sea (diluted) is prepared for the QUASIMEME proficiency programs. The results on which the values in this report are based were taken from the periods given in the following table.

Year.Round	Program	Sample Round Id
2022.1	AQ8	QTP111SW

Consensus Values AQ8

Method: OPs&Herb - AQ8

Element	Unit	Mean	Std.Dev.	CV %	N	Median	MAD	Uncertainty	95 % confidence limits		
Chlorfenvinphos	ng/l	456	70.6	15.5	10	452	46.0	27.9	406	-	505
Chlorpyrifos	ng/l	693	85.3	12.3	10	690	59.0	33.7	633	-	753

Indicative Values AQ8

Method: OPs&Herb - AQ8

Element	Unit	Mean	Std.Dev.	CV %	N	Median	MAD	Uncertainty	95 % confidence limits
Aclonifen	ng/l	684	83.2	12.2	6	690	57.8	42.5	601 - 767
Alachlor	ng/l	223	40.3	18.1	8	219	29.5	17.8	190 - 255
Atrazine	ng/l	982	203.5	20.7	12	967	144.7	73.4	854 - 1110
Atrazine-desethyl	ng/l	338	79.3	23.5	7	340	50.0	37.5	267 - 409
Azinphos-ethyl	ng/l	778	55.6	7.1	4	760	40.5	34.7	701 - 855
Azinphos-methyl	ng/l	469	2.2	0.5	5	470	1.8	1.2	466.9 - 471.9
Bifenox	ng/l	247	26.2	10.6	6	253	17.3	13.4	221 - 274
Cypermethrin	ng/l	86.3	4.76	5.5	7	86.5	3.80	2.25	82.1 - 90.6
Deltamethrin	ng/l	78.4	30.91	39.4	5	71.9	23.10	17.28	42.9 - 114
Diazinon	ng/l	667	83.8	12.6	7	680	58.8	39.6	592 - 742
Dichlorvos	ng/l	508	63.1	12.4	7	503	34.3	29.8	452 - 565
Dicofol	ng/l	267	118.7	44.5	6	258	75.7	60.6	148 - 385
Dimethoate	ng/l	423	158.3	37.4	9	400	100.0	66.0	304 - 543
Diuron	ng/l	864	82.2	9.5	8	877	59.5	36.3	797 - 931
Fenitrothion	ng/l	223	30.5	13.7	7	218	21.5	14.4	196 - 250
Fenthion	ng/l	703	95.9	13.6	6	711	65.1	49.0	608 - 799
Imidacloprid	ng/l	747	98.7	13.2	5	730	70.0	55.2	634 - 861
Irgarol-1051	ng/l	377	47.4	12.6	6	379	32.3	24.2	330 - 424
Isoproturon	ng/l	897	85.8	9.6	8	906	57.0	37.9	827 - 967
Malathion	ng/l	512	15.1	3.0	6	510	9.0	7.7	497 - 527
Parathion-ethyl	ng/l	576	52.6	9.1	8	575	36.6	23.2	533 - 619
Parathion-methyl	ng/l	334	87.6	26.2	7	331	64.8	41.4	256 - 412
Permethrin	ng/l	68.7	12.23	17.8	4	69.1	8.25	7.64	51.8 - 85.7
Quinoxyfen	ng/l	676	100.5	14.9	7	679	70.2	47.5	586 - 765
Simazine	ng/l	1010	177	17.5	11	1060	120	67	896 - 1131
Terbutryn	ng/l	255	39.7	15.6	7	267	23.0	18.8	219 - 290
Terbuthylazine	ng/l	669	38.9	5.8	8	680	30.1	17.2	637 - 701
Thiacloprid	ng/l	479	60.3	12.6	5	468	43.0	33.7	410 - 549
Thiamethoxam	ng/l	372	102.1	27.4	4	359	66.4	63.8	230 - 514
Triazophos	ng/l	482	13.1	2.7	4	478	10.0	8.2	464 - 501