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 117

WAGENINGEN
UNIVERSITY & RESEARCH

Certificate of Analysis AQ8 117

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 117 of Seawater with spike solution from North Sea 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	QTP109SW

Indicative Values AQ8

Method: OPs&Herb - AQ8

Element	Unit	Mean	Std.Dev.	CV %	N	Median	MAD	Uncertainty	95 % confidence limits
Aclonifen	ng/l	4.79	1.141	23.8	5	4.88	0.880	0.638	3.48 - 6.10
Alachlor	ng/l	9.99	1.332	13.3	7	10.00	1.010	0.629	8.80 - 11.2
Atrazine	ng/l	24.7	4.81	19.5	11	24.8	3.29	1.81	21.5 - 27.9
Atrazine-desethyl	ng/l	13.0	1.39	10.8	6	13.6	1.00	0.71	11.6 - 14.4
Bifenox	ng/l	9.36	0.721	7.7	5	9.57	0.474	0.403	8.54 - 10.2
Chlorfenvinphos	ng/l	16.8	2.85	17.0	9	17.0	2.00	1.19	14.6 - 18.9
Chlorpyrifos	ng/l	18.9	3.64	19.2	9	19.0	2.40	1.52	16.2 - 21.7
Cypermethrin	ng/l	4.67	0.569	12.2	6	4.85	0.422	0.290	4.10 - 5.24
Deltamethrin	ng/l	6.72	1.643	24.5	4	6.71	1.105	1.027	4.44 - 9.00
Diazinon	ng/l	18.1	3.40	18.8	6	17.8	2.40	1.73	14.7 - 21.5
Dichlorvos	ng/l	18.6	5.34	28.8	6	20.0	3.55	2.73	13.2 - 23.9
Dicofol	ng/l	12.6	6.19	49.3	5	12.1	4.41	3.46	5.44 - 19.7
Diuron	ng/l	22.0	2.12	9.6	7	22.2	1.39	1.00	20.1 - 23.9
Fenitrothion	ng/l	19.7	3.99	20.3	6	19.8	2.55	2.04	15.7 - 23.7
Fenthion	ng/l	16.8	2.24	13.3	4	16.6	1.42	1.40	13.7 - 19.9
Irgarol-1051	ng/l	10.3	1.66	16.2	5	11.0	1.31	0.93	8.35 - 12.2
Isoproturon	ng/l	9.19	2.097	22.8	5	10.04	1.540	1.172	6.78 - 11.6
Malathion	ng/l	6.88	1.455	21.1	5	7.00	0.990	0.813	5.21 - 8.56
Parathion-ethyl	ng/l	16.7	6.55	39.3	6	16.7	4.22	3.34	10.1 - 23.2
Parathion-methyl	ng/l	21.1	10.58	50.2	7	24.4	7.56	5.00	11.6 - 30.5
Quinoxyfen	ng/l	10.3	1.52	14.8	7	11.0	1.10	0.72	8.91 - 11.6
Simazine	ng/l	16.6	3.13	18.9	9	17.3	2.27	1.31	14.2 - 18.9
Terbutryn	ng/l	24.6	1.73	7.0	5	25.3	1.32	0.97	22.6 - 26.6
Terbuthylazine	ng/l	15.4	6.14	39.8	6	17.1	4.40	3.13	9.28 - 21.5
Thiacloprid	ng/l	8.20	1.307	15.9	4	8.72	1.000	0.817	6.39 - 10.0
Thiamethoxam	ng/l	18.0	5.78	32.0	4	20.4	4.35	3.61	10.0 - 26.0