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Simultaneous screening for lipophilic and hydrophilic toxins in marine harmful algae using a serially coupled reversed-phase and hydrophilic interaction liquid chromatography separation system with high-resolution mass spectrometry

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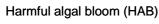
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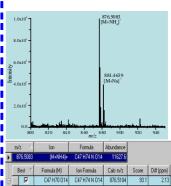
HAB Algae sample

Extract both lipophilic and hydrophilic toxins in algae simultaneously

A homemade accurate mass list of known lipophilic and hydrophilic marine algal toxins



RPLC/HILIC-TOF/MS



Ž	876.5083	(M+NH4)+	C47 H74 N 014	11627.6		
	Best ▽	Formula (M)	Ion Formula	Calc m/z	Score	Diff (ppm)
Ĭ	V	C47 H70 014	C47 H74 N 014	876,5104	93.1	2.13
	Isotop	Abund Sum%	Calc Abund Sum	m/z	Calc m/	Diff (ppm)
	1	59.24	57.87	876.5083	876.5104	2.42
	2	29.11	30.43	877.5144	877.5137	-0.74
	3	9.25	9.51	878.5136	878.5167	3.47
	4	2.41	2.19	879.5187	879.5195	0.95
	Best ∇	Formula (M)	Ion Formula	Calc m/z	Score	Diff (ppm)
ı	Г	C48 H66 N4 O10	C48 H70 N5 010	876.5117	85.77	3.67

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