

MS-7 Brominated Flame Retardants in Sediment					
Year	2021	Number of Rounds / Year	2	Number of Materials	2
Distribution		April, October (15 laboratories expected)			
Participation fee		€625,=			

Introduction

This study covers the determination of brominated flame retardants (BFR's) in sediment.

Test Materials

The test materials cover a range of natural unspiked sediments from contaminated waters from the North Sea and/or Mediterranean.

Sediments are dried and sieved to <0.5 mm before sub-sampling into glass jars for distribution.

Sediment test materials have been shown to be stable over a number of years when stored at room temperature.

Determinands and concentration ranges

The BFR's to be determined are given in the table below.

The table also shows:

- The expected concentration range for the determinands in the 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
		Sediment	Const	Prop	
BDE28	µg/kg	0.01—2	0.05	12.5%	
BDE47	µg/kg	0.1—20	0.05	12.5%	
BDE66	µg/kg	0.01—10	0.05	12.5%	
BDE85	µg/kg	0.01—10	0.05	12.5%	
BDE99	µg/kg	0.1—50	0.05	12.5%	
BDE100	µg/kg	0.01—10	0.05	12.5%	
BDE153	µg/kg	0.1—5	0.05	12.5%	
BDE154	µg/kg	0.01—5	0.05	12.5%	
BDE183	µg/kg	0.1—2	0.05	12.5%	
BDE209	µg/kg	2—2000	0.05	12.5%	
TBBP-A	µg/kg		0.05	12.5%	
Dimethyl-TBBP-A	µg/kg		0.05	12.5%	
a-HBCD	µg/kg		0.05	12.5%	
b-HBCD	µg/kg		0.05	12.5%	
g-HBCD	µg/kg	0.01 - 20	0.05	12.5%	
Total-HBCD	µg/kg	50—1000	0.05	12.5%	

Only determinands in **bold** are in the scope of the accreditation.