
**Water quality — Determination of dioxin-
like polychlorinated biphenyls — Method
using gas chromatography/mass
spectrometry**

*Qualité de l'eau — Dosage des biphényles polychlorés de type
dioxine — Méthode par chromatographie en phase
gazeuse/spectrométrie de masse*



PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

© ISO 2007

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 0111
Fax + 41 22 749 0947
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

Contents

Page

Foreword.....	vi
Introduction	vii
1 Scope	1
2 Normative references	1
3 Terms, definitions and abbreviated terms	2
3.1 Terms and definitions.....	2
3.2 Abbreviated terms	3
4 Principle.....	4
4.1 Spiking and extraction	4
4.2 Clean-up.....	4
4.3 Concentration.....	4
4.4 Identification.....	5
4.5 Quantification.....	5
4.6 Analytical quality	5
5 Contamination and interferences.....	5
6 Reagents and standards.....	6
7 Apparatus and materials.....	10
7.1 Sampling equipment for discrete sampling.....	10
7.2 Equipment for sample preparation	11
7.3 Extraction apparatus	11
7.4 Filtration apparatus	12
7.5 Clean-up apparatus	12
7.6 Concentration apparatus	13
7.7 Other equipment	13
8 Sample collection, preservation, storage and holding times	14
9 Quality assurance (QA)/quality control (QC)	14
9.1 General.....	14
9.2 Initial precision and recovery (IPR).....	15
9.3 Spiking.....	15
9.4 Recovery of labelled compounds assessment.....	16
9.5 Method blanks	16
9.6 QC check sample.....	16
9.7 Method precision	16
10 Calibration	17
10.1 Operating conditions.....	17
10.2 Mass spectrometer (MS) resolution.....	17
10.3 Ion abundance ratios, minimum levels, signal-to-noise ratios, and absolute retention times.....	17
10.4 Retention time	18
10.5 Isomer specificity.....	18
10.6 Calibration by isotope dilution.....	18
10.7 Calibration by internal standard.....	19
10.8 Combined calibration	19
11 Sample preparation	20
11.1 General.....	20