

ISO 20596-1:2018 (E)

Water quality — Determination of cyclic volatile methylsiloxanes in water — Part 1: Method using purge and trap with gas chromatography-mass spectrometry (GC-MS)

Contents

	Foreword
1	Scope
2	Normative references
3	Terms and definitions
4	Principle
5	Interferences
5.1	General
5.2	Interferences with sampling and extraction
5.3	Interferences with GC-MS
6	Reagents
7	Apparatus
8	Sampling and sample preservation
9	Procedures
9.1	Purge and trap extraction
9.1.1	General
9.1.2	Conditioning of the solid phase material
9.1.3	Sample extraction
9.1.4	Elution
9.2	GC-MS operating conditions
9.3	Blank determination
9.4	Identification
10	Calibration
10.1	General requirements
10.2	Calibration by internal standard
11	Calculation
11.1	Use of the calibration graph to determine the result
11.2	Calculation of results after calibration with internal standards
11.3	Treatment of results lying outside the calibration range
11.4	Quality checks for internal standardization
12	Expression of results
13	Test report
Annex A	(informative) Example of sorbents
Annex B	(informative) Examples of purge and trap extraction assemblies
Annex C	(informative) Suitable capillary column

Annex D (informative) GC-MS conditions and examples of chromatograms

Annex E (informative) Performance data

Page count: 23