

ISO/TS 28581:2012-02 (E)

Water quality - Determination of selected non-polar substances - Method using gas chromatography with mass spectrometric detection (GC-MS)

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	2
4	Principle	2
5	Interferences	4
5.1	Interferences with sampling, extraction and concentration	4
5.2	Interferences with gas chromatography	5
5.3	Interferences with GC-MS	6
6	Reagents	6
7	Apparatus	9
7.1	General requirements	9
8	Sampling	10
9	Procedure	11
9.1	General considerations	11
9.2	Extraction	11
9.3	Gas chromatography	12
9.4	Blank measurement	12
9.5	Mass spectrometric conditions	12
10	Calibration	13
10.1	General	13
10.2	Calibration by labelled internal standards	13
10.3	Calibration by internal standard	13
11	Measurement of samples	14
12	Identification	14
13	Calculation	17
13.1	Quantification by internal standards	17
13.2	Quantification by labelled internal standards	18
13.3	Recovery of internal standards	19
13.4	Concentration in the sample	19
14	Expression of results	19
15	Test report	20
Annex A (informative)	Examples of GC-MS conditions	21

Annex B (informative) Examples for the construction of special apparatus	22
Annex C (informative) Silica clean-up	24
Bibliography	25