

ISO 21253-1:2019-08 (E)

Water quality - Multi-compound class methods - Part 1: Criter ia for the identification of target compounds by gas and liquid chromatography and mass spectrometry

Contents	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Abbreviated terms	2
5 Principle	3
6 Apparatus	3
7 Identification of target compounds	4
7.1 Procedure for identification of organic compounds with chromatography-mass spectrometry	4
7.2 Step 1: Chromatographic separation	5
7.3 Step 2: Mass spectrometric evaluation	6
7.3.1 Mass spectrometric detection	6
7.3.2 Selection of diagnostic ions	6
7.3.3 Assigning identification points	7
7.4 Step 3: Additional analytical confirmation evaluation	8
7.5 Reporting the presence of target compounds	9
7.5.1 Identification	9
7.5.2 Indication	9
7.5.3 Absence of the target compounds (< detection limit)	9
8 Test report	9
Annex A (informative) Recommendations for the most commonly used techniques	10
Annex B (normative) Criteria for full scan measurement	12
Annex C (informative) Diagnostic ions to be used for identification using GC-MSn and LC-MSn	13
Annex D (informative) Examples of calculating identification points	14
Bibliography	21