

DIN EN ISO 13199:2013-02 (E)

Stationary source emissions - Determination of total volatile organic compounds (TVOCs) in waste gases from non-combustion processes - Non-dispersive infrared analyser equipped with catalytic converter (ISO 13199:2012)

Contents		Page
Foreword		3
Introduction		4
1	Scope	5
2	Normative references	5
3	Terms and definitions	5
4	Symbols and abbreviated terms	8
5	Principle	8
5.1	Method of measurement	8
5.2	Analyser equipment	10
5.3	Performance criteria fulfilment	10
6	Performance criteria and determination of the performance characteristics	10
6.1	Performance criteria	10
6.2	Determination of the performance characteristics and measurement uncertainty	10
7	Measurement procedure	12
7.1	General	12
7.2	Choice of the measuring system	12
7.3	Sampling	12
7.4	Data collection	12
7.5	Calculation	13
8	Quality assurance and quality control procedures	13
8.1	General	13
8.2	Frequency of checks	13
8.3	AMS for intermittent measurements	13
8.4	Permanently installed AMS	15
9	Test report	17
Annex A (informative) Schematic diagrams of NDIR analysers		18
Annex B (normative) Operational gases		21
Annex C (normative) Procedures for determination of the performance characteristics during the general performance test		23
Annex D (informative) Example of assessment of compliance of the NDIR method		27
Annex E (informative) Results of comparison tests		30
Bibliography		34