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Test report 20-0519-01

Extent of assignment

Measurement of concentrations of nitrogen dioxide (NO₂) in outdoor air by using the IVL diffusive samplers.

Results

Concentrations of measured compounds: Table 1

Method, limit of detection and uncertainty: Table 2

Analysis but not sampling is performed under accreditation since sampling is not performed by IVL. The results assume IVL's sampling instructions have been followed, and information on sampling protocol is correct and sufficient, since the results are calculated from these data. The result is valid only for the actual sampling point and for the sample as it is received.

Göteborg 2021-03-16

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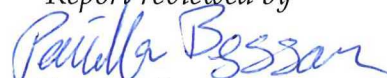
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Table 1: Concentrations measured compounds

Sample Id	Sampling site	Start	Stop	Temp °C	NO ₂ µg/m ³ STP*
197610	VIA RENON C/O FERRATA SASA 112- N1-NSS FRONTE HOTEL REGINA	2020-12-11 21:10	2021-01-11 20:35	2	49
197633	VIA ROSA 7 BOLZANO TASACCM N14	2020-12-11 20:30	2021-01-11 20:07	2	48

*STP Standard Temperature and Pressure of 20 °C and 1013 hPa.

Table 2: Method, limit of detection and uncertainty

	Method	Measurement uncertainty **	Limit of detection
NO ₂	Sampling: IVL P1:1 Diffusive sampling with IVL-sampler Analysis: ISO 15923-1:2013 Water quality - Determination of selected parameters by discrete analysis systems - Part 1: Ammonium, nitrate, nitrite, chloride, orthophosphate, sulfate and silicate with photometric detection, mod	10%	0.1 µg NO ₂ /m ³ when sampling for one month

**Uncertainty covers both sampling and analysis and is given at 95% confidence interval.