

Application Data Sheet

No. 39

System Gas Chromatograph

Nitrous Oxide (N₂O) Released from Soil Analyzer Nexis GC-2030N₂O1 GC-2014N₂O1

This method provides for the determination of Nitrous oxide (N₂O) released from soil by gas chromatography (GC) with an Electron Capture Detector (ECD) using Porapak-Q and Porapak-N packed columns. The system includes LabSolutions GC workstation software.

Analyzer Information

System Configuration:

Two valves / three packed columns with ECD detector

Sample Information:

N₂O in Greenhouse gases and soil gases

Concentration Range:

No.	Name of Compound	Concentration Range	
		Low Conc.	High Conc.
1	N ₂ O	50 ppb	200 ppm

Detection limits may vary depending on the sample. Please contact us for more consultation.

System Features

- 9 minutes analysis can be carried out for greenhouse gases or soil gases analysis
- Single channel with ECD high sensitivity detector for ppb level N₂O
- It is useful for agricultural research with meaningful information
- Linear calibration curve

Typical Chromatograms

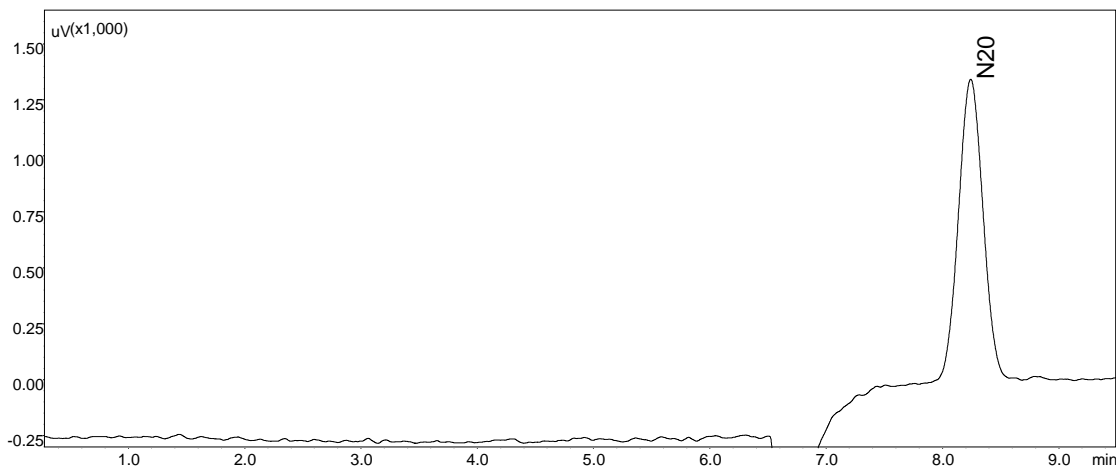


Fig. 1 Chromatogram of ECD

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