

Application Data Sheet

No.37

System Gas Chromatograph

Trace Saturates in Pure Aromatics Nexis GC-2030TSHA1 GC-2014TSHA1

This method is for determining trace paraffins and naphthenes by carbon number from C3 through C10 in olefin-free C6, C7 or C8 aromatics or mixtures. A repeatable sample volume is injected into a gas chromatograph equipped with two columns and a flame ionization detector. The first column is polar, packed with OV-275 on Chromosorb, and the second column is selective, packed with specially treated 13X molecular sieves. Initially, the two columns are connected in series. Immediately before the elution of benzene from the polar column, the polar column is back-flushed to vent while the eluted saturated hydrocarbons are analyzed on the selective column. The external standard method of quantitation is used. The system includes Lab Solutions GC workstation software.

Analyzer Information

System Configuration:

Two valves/Two packed column with one FID detector

Sample Information:

C3~C8 Paraffins or Naphthenes, C9~C10 Paraffins or Naphthenes

Methods met:

UOP-868

Concentration Range:

No.	Name of Compound	Concentration Range	
		Low Conc.	High Conc.
1	C3~C8 Paraffins or Naphthenes	2ppm	2000ppm
2	C9~C10 Paraffins or Naphthenes	100ppm	2000ppm

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

System Features

- 70 minutes analysis can be carried out for the gasoline analysis
- Single channel with two packed column by using FID detector

Typical Chromatograms

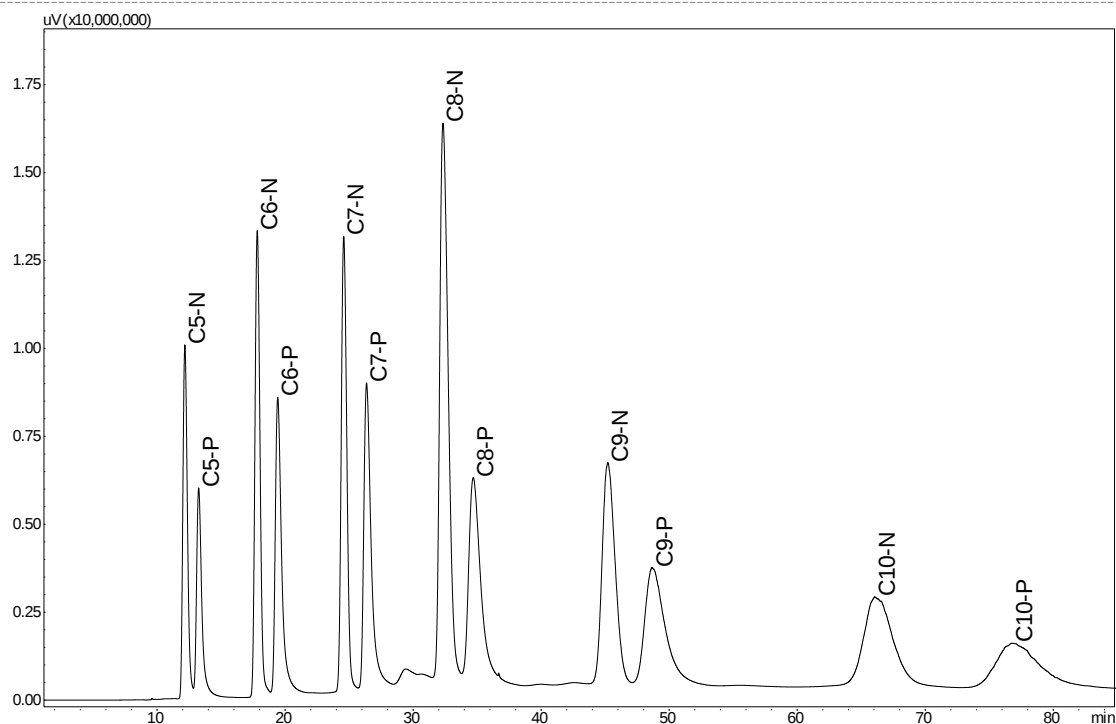


Fig. 1 Chromatogram of FID

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