

Refinery gas analysis

Application Note

Energy & Fuels

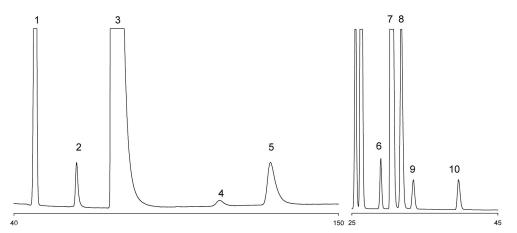
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Introduction

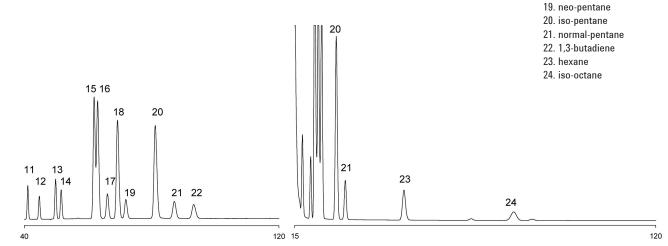
The Agilent Micro-GC solution is used for the analyses of refinery gas and related products. The analysis shown is a hydrocarbon type sample in nitrogen. Four independent GC channels analyze the sample in less than 150 seconds. The analysis includes permanent gases, hydrogen sulfide and all individual saturated and unsaturated hydrocarbons up to C5. Heavier hydrocarbons are reported either as individual components or as groups.





Channel 1. Permanent gases

Channel 2. C_2 hydrocarbons, CO_2 and H_2S



Channel 3. C_3 up to C_5 hydrocarbons

Channel 4. $C_{\scriptscriptstyle 5}$ and heavier hydrocarbons

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Printed in the USA
31 October, 2011

First published prior to 11 May, 2010

A01786

Peak identification

hydrogen
 oxygen
 nitrogen
 methane
 carbon monoxide
 carbon dioxide
 ethylene
 ethane
 acetylene
 hydrogen sulfide
 propane

12. propylene13. iso-butane14. normal-butane15. trans-2-butene

16. 1-butene

17. iso-butene 18. cis-2-butene

