Permanent gases
Analysis of landfill gases

Application Note

Environmental

Authors
Agilent Technologies, Inc.

Introduction
Gas chromatography with an Agilent 490 Micro GC and HayeSep A column module separates carbon dioxide, methane, oxygen and nitrogen in landfill gas in 30 seconds.
**Conditions**

- **Technique**: Micro GC
- **Column**: Agilent CP-HayeSep A
- **Temperature**: 50 °C
- **Carrier Gas**: He
- **Detector**: TCD

**Peak identification**

<table>
<thead>
<tr>
<th>Peak</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. oxygen/nitrogen</td>
<td>3.48%</td>
</tr>
<tr>
<td>2. methane</td>
<td>54.27%</td>
</tr>
<tr>
<td>3. carbon dioxide</td>
<td>41.35%</td>
</tr>
</tbody>
</table>