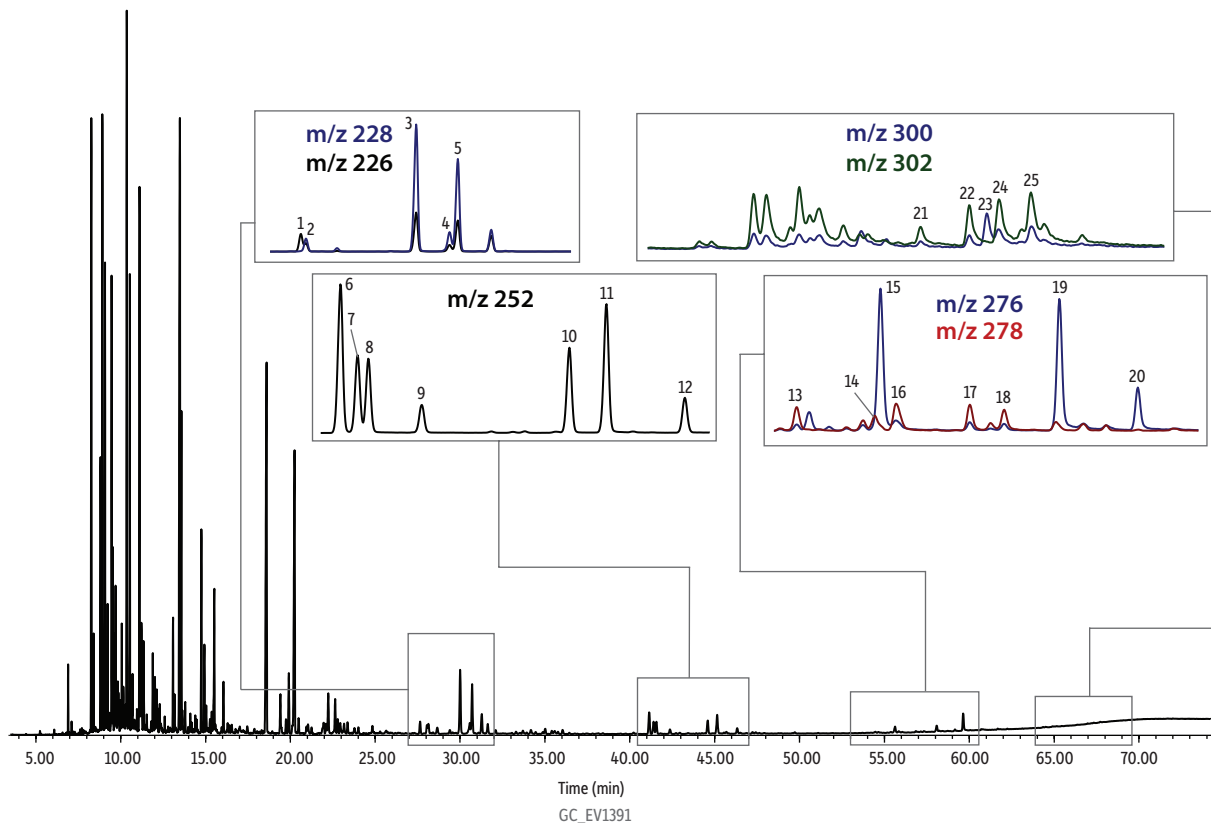


Detailed Analysis of Polycyclic Aromatic Hydrocarbons (PAHs) in Creosote Oil on Rxi®-PAH

- | | |
|--|--|
| <p>Peaks</p> <ol style="list-style-type: none"> 1. Benzo[ghi]fluoranthene 2. Benzo[c]phenanthrene 3. Benz[a]anthracene 4. Triphenylene 5. Chrysene 6. Benzo[b]fluoranthene 7. Benzo[k]fluoranthene 8. Benzo[j]fluoranthene 9. Benzo[a]fluoranthene 10. Benzo[e]pyrene 11. Benzo[a]pyrene 12. Perylene | <p>Peaks</p> <ol style="list-style-type: none"> 13. Dibenzo(a,j)anthracene 14. Dibenzo[a,c]anthracene 15. Indeno[1,2,3-cd]pyrene 16. Dibenzo[a,h]anthracene 17. Benzo[b]chrysene 18. Picene 19. Benzo[ghi]perylene 20. Anthanthrene 21. Dibenzo[a,l]pyrene 22. Dibenzo[a,e]pyrene 23. Coronene 24. Dibenzo[a,i]pyrene 25. Dibenzo[a,h]pyrene |
|--|--|



Column Rxi®-PAH, 60 m, 0.25 mm ID, 0.10 µm (cat.# 49317)
Sample Creosote oil standard (cat.# 31838)
Diluent: Dichloromethane
Conc.: 50,000 µg/mL
Injection
Inj. Vol.: 1 µL split (split ratio 40:1)
Liner: Premium 4 mm Precision liner w/wool (cat.# 23305.5)
Inj. Temp.: 275 °C
Split Vent
Flow Rate: 78 mL/min
Oven
Oven Temp.: 40 °C (hold 1.6 min) to 210 °C at 24 °C/min to 295 °C at 1.9 °C/min to 350 °C at 3.7 °C/min (hold 6 min)
Carrier Gas He, constant flow
Flow Rate: 1.95 mL/min
Detector MS
Mode: Scan

Scan Program:

Group	Start Time (min)	Scan Range (amu)	Scan Rate (scans/sec)
1	3.4	35-450	3.5
2	25	35-450	1.8

Transfer Line
Temp.: 330 °C
Analyzer Type: Quadrupole
Source Type: Extractor
Extractor Lens: 9mm ID
Source Temp.: 350 °C
Quad Temp.: 200 °C
Electron Energy: 70 eV
Solvent Delay
Time: 3.4 min
Instrument Agilent 7890B GC & 5977A MSD