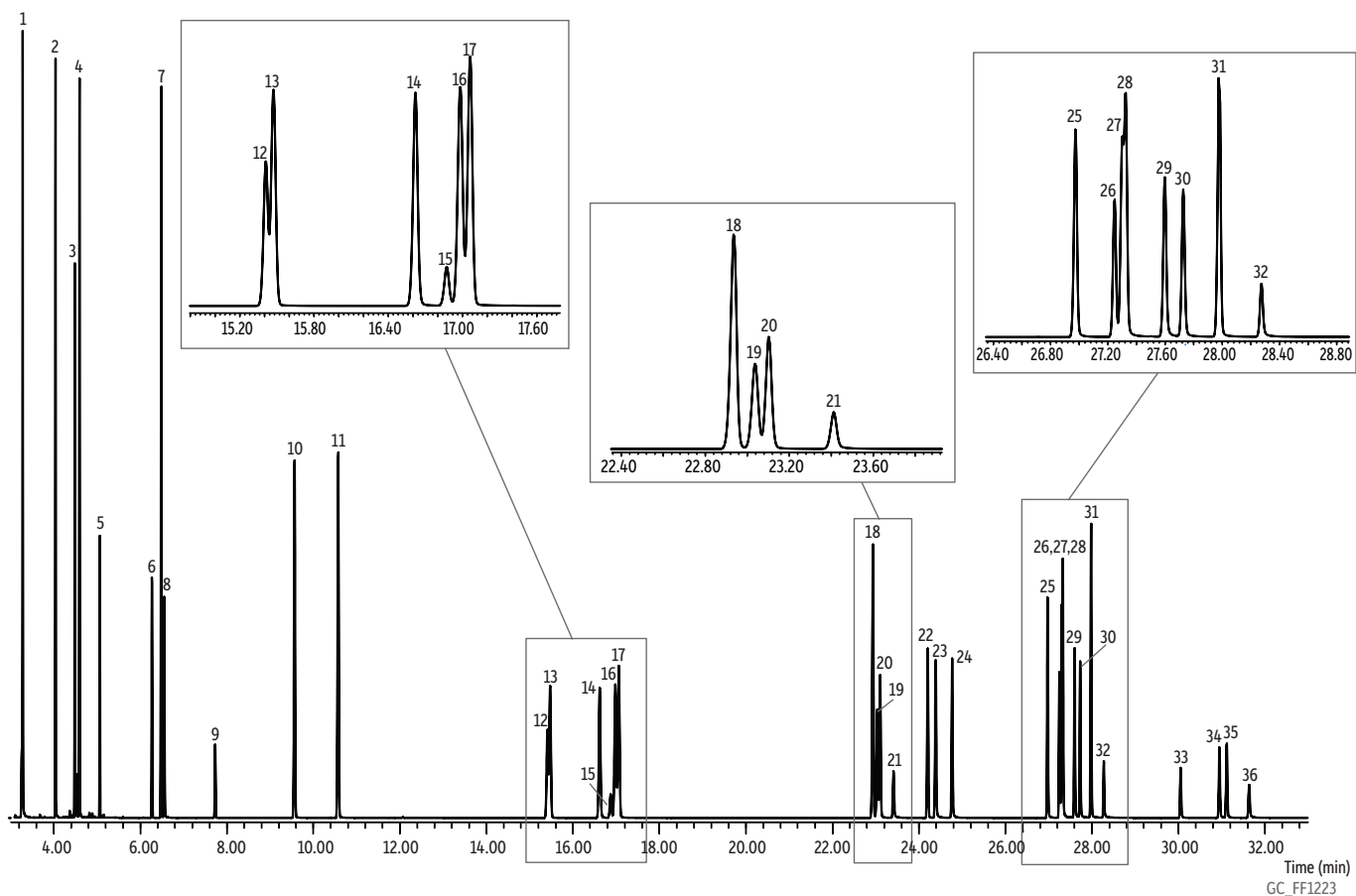


# NIST SRM 2260a PAH Mix on Rxi®-PAH

Peaks	Quant Ion (m/z)	SIM Group #
1. Naphthalene	128	1
2. Biphenyl	154	1
3. Acenaphthylene	152	1
4. Acenaphthene	153	1
5. Fluorene	165	1
6. Dibenzothiophene	184	2
7. Phenanthrene	178	2
8. Anthracene	178	2
9. 4H-Cyclopenta[def]phenanthrene	190	2
10. Fluoranthene	202	2
11. Pyrene	202	2
12. Benzo[ghi]fluoranthene	226	3
13. Benzo[c]phenanthrene	228	3
14. Benz[a]anthracene	228	3
15. Cyclopenta[cd]pyrene	226	3
16. Triphenylene	228	3
17. Chrysene	228	3
18. Benzo[b]fluoranthene	252	4

Peaks	Quant Ion (m/z)	SIM Group #
19. Benzo[k]fluoranthene	252	4
20. Benzo[j]fluoranthene	252	4
21. Benzo[a]fluoranthene	252	4
22. Benzo[e]pyrene	252	4
23. Benzo[a]pyrene	252	4
24. Perylene	252	4
25. Dibenz[a,j]anthracene	278	5
26. Dibenz[a,c]anthracene	278	5
27. Indeno[1,2,3-cd]pyrene	276	5
28. Dibenz[a,h]anthracene	278	5
29. Benzo[b]chrysene	278	5
30. Picene	278	5
31. Benzo[ghi]perylene	276	5
32. Anthanthrene	276	5
33. Dibenzo[b,k]fluoranthene	302	6
34. Dibenzo[a,e]pyrene	302	6
35. Coronene	300	6
36. Dibenzo[a,h]pyrene	302	6



**Column** Rxi®-PAH, 40 m, 0.18 mm ID, 0.07 µm (cat.# 49316)  
**Sample** NIST SRM 2260a PAH mix  
**Diluent:** Toluene  
**Conc.:** 0.2 - 2 µg/mL (SRM 2260a PAH mix was diluted 5x in toluene)  
**Injection**  
 Inj. Vol.: 0.5 µL pulsed splitless (hold 0.58 min)  
 Liner: Premium 2 mm single taper w/wool (cat.# 23316.1)  
 Inj. Temp.: 275 °C  
 Pulse Pressure: 80 psi (551.6kPa)  
 Pulse Time: 0.6 min  
 Purge Flow: 40 mL/min  
**Oven**  
 Oven Temp: 110 °C (hold 1 min) to 210 °C at 37 °C/min to 260 °C at 3 °C/min to 350 °C at 11 °C/min (hold 4.5 min)  
**Carrier Gas**  
 Flow Rate: He, constant flow 1.4 mL/min  
**Detector**  
 Mode: MS  
 SIM

**SIM Program:**

Group	Start Time (min)	Ion(s) (m/z)	Dwell (ms)
1	3.00	128, 152, 153, 154, 165	40
2	5.50	178, 184, 190, 202	50
3	13.00	226, 228	100
4	20.00	252	200
5	26.00	276, 278	100
6	29.00	300, 302	150

**Transfer Line**  
 Temp.: 350 °C  
**Analyzer Type:** Quadrupole  
**Source Temp.:** 350 °C  
**Quad Temp.:** 200 °C  
**Solvent Delay**  
 Time: 3.00 min  
**Tune Type:** PFTBA  
**Ionization Mode:** EI  
**Instrument** Agilent 7890A GC & 5975C MSD