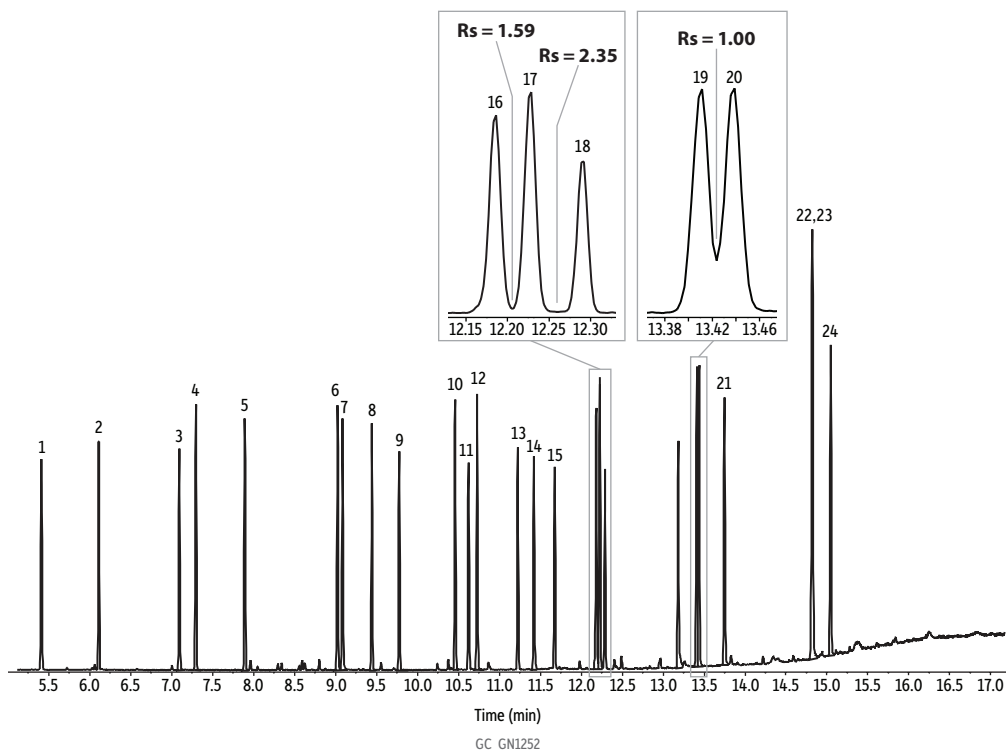


Combined Analysis of PAHs and PCBs on RMX-5SiI MS by GC-MS



Peaks	tr (min)	Conc. (µg/mL)	Peaks	tr (min)	Conc. (µg/mL)
1. Naphthalene	4.854	1	13. PCB 118	8.976	1
2. 2-Methylnaphthalene	5.408	1	14. PCB 153	9.113	1
3. Acenaphthylene	6.134	1	15. PCB 138	9.290	1
4. Acenaphthene	6.277	1	16. Benzo[a]anthracene	9.654	1
5. Fluorene	6.700	1	17. Chrysene	9.685	1
6. Phenanthrene	7.481	1	18. PCB 180	9.725	1
7. Anthracene	7.524	1	19. Benzo[b]fluoranthene	10.548	1
8. PCB 28	7.764	1	20. Benzo[k]fluoranthene	10.559	1
9. PCB 52	7.993	1	21. Benzo[a]pyrene	10.806	1
10. Fluoranthene	8.461	1	22. Dibenzo[a,h]anthracene	11.658	1
11. PCB 101	8.564	1	23. Indeno[1,2,3-cd]pyrene	11.658	1
12. Pyrene	8.644	1	24. Benzo[g,h,i]perylene	11.846	1

Column RMX-5SiI MS, 30 m, 0.25 mm ID, 0.25 µm (cat.# 17323)
Standard/Sample

2-Methylnaphthalene (cat.# 31285)
SV calibration mix #5 (cat.# 31011)
PCB congener mix #2 (cat.# 32294)

Diluent: Methylene chloride
Conc.: 1 µg/mL

Injection

Inj. Vol.: 1 µL splitless (hold 1.26 min)
Liner: Topaz 4.0 mm ID single taper inlet liner w/wool (cat.# 23303)
Inj. Temp.: 250 °C
Purge Flow: 3 mL/min

Oven

Oven Temp.: 40 °C (hold 1 min) to 120 °C at 30 °C/min to 350 °C at 20 °C/min (hold 2 min)

Carrier Gas

He, constant flow
Flow Rate: 1.2 mL/min
Linear Velocity: 39.7 cm/sec

Detector

MS
Mode: Scan

Scan Program:

Group	Start Time (min)	Scan Range (amu)	Scan Rate (scans/sec)
1	3	50-550	5

Transfer Line Temp.: 280 °C
Analyzer Type: Quadrupole
Source Temp.: 330 °C
Quad Temp.: 180 °C
Solvent Delay Time: 3 min
Tune Type: PFTBA
Ionization Mode: EI
Instrument Agilent 7890B GC & 5977B MSD