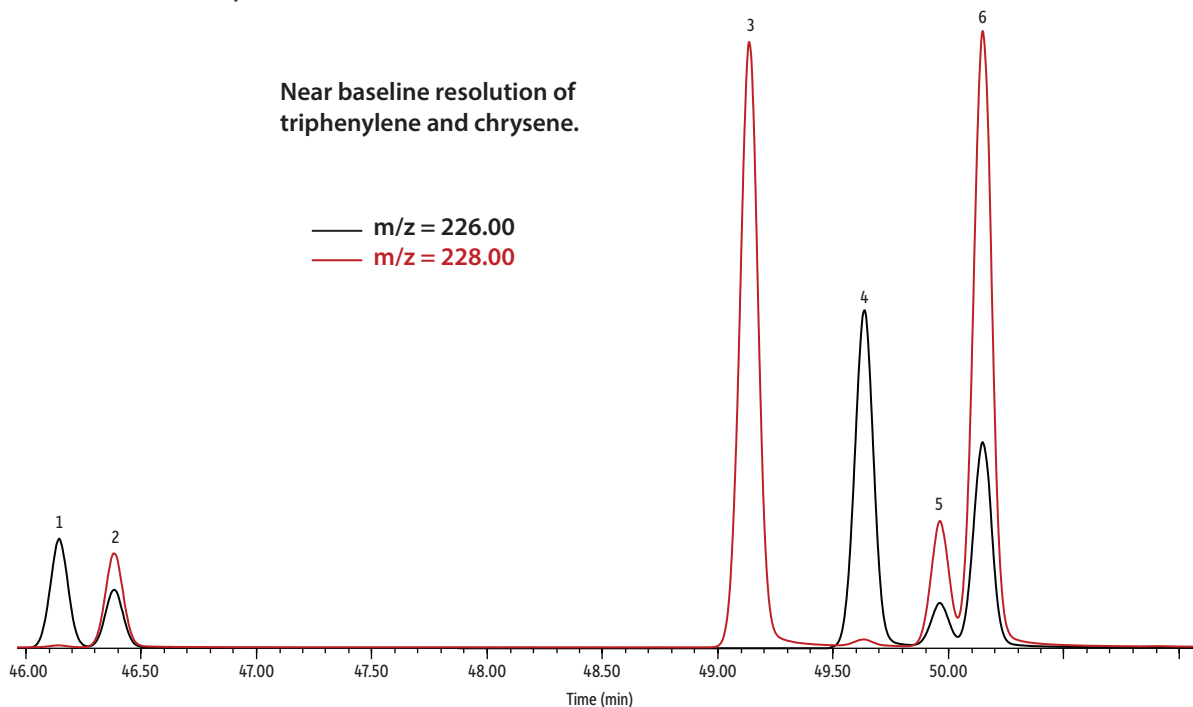


Resolution of Chrysene from Isobaric Interferences on Rxi®-PAH (60 m x 0.25 mm x 0.10 µm)

Peaks	t _R (min)	Conc. (µg/mL)	Quant Ion
1. Benzo[ghi]fluoranthene	46.14	1.5	226
2. Benzo[c]phenanthrene	46.38	2.0	228
3. Benz[a]anthracene	49.13	8.8	228
4. Cyclopenta[cd]pyrene	49.64	5.2	226
5. Triphenylene	49.96	1.8	228
6. Chrysene	50.15	8.9	228



GC_EV1422

Column Sample	Rxi®-PAH, 60 m, 0.25 mm ID, 0.10 µm (cat.# 49317) SV internal standard mix (cat.# 31206) Coronene-D12 (CIL) (cat.# DLM-2715) Benzo[a]pyrene-D12 (CIL) (cat.# DLM-258-0) Aromatics in toluene (NIST) (cat.# 2260a) Native PAH stock (Wellington Labs) (cat.# PAH-STK-A) EU 15+1 PAH standard (cat.# 32470) Custom PAH SIM standard (cat.# 557484)	Group	Start Time (min)	Ion(s) (m/z)	Dwell (ms)
Diluent:	Toluene	1	5.09	102.1, 108.1, 128.1, 136.2	20
Conc.:	0.71 to 10 µg/mL	2	6.68	115.1, 142.1	20
Injection		3	7.55	76.1, 141.1, 154.1, 156.2	20
Inj. Vol.:	1 µL split (split ratio 10:1)	4	8.77	75.6, 152.1	20
Liner:	Premium 4 mm Precision® liner w/wool (cat.# 23305.1)	5	9.56	76.1, 153.1, 162.2, 164.2	20
Inj. Temp.:	275 °C	6	10.26	155.1, 170.2	20
Oven		7	11.12	82.4, 165.1	20
Oven Temp.:	110 °C (hold 1.6 min) to 175 °C at 30 °C/min to 265 °C at 1.6 °C/min to 350 °C at 4 °C/min (hold 15 min)	8	14.27	139.1, 184.1	20
Carrier Gas	He, constant flow	9	17.26	152.1, 160.2, 178.1, 188.2	20
Flow Rate:	1.0 mL/min	10	20.58	94.6, 165.1, 190.1, 192.1	20
Detector	MS	11	26.32	101.1, 202.1	20
Mode:	SIM	12	34.97	92.1, 184.1	20
Transfer Line		13	37.36	108.0, 216.0	20
Temp.:	320 °C	14	41.78	196.1, 212.2	20
Analyzer Type:	Quadrupole	15	45.86	113.1, 226.1, 228.1	20
Source Type:	Extractor	16	47.86	114.0, 228.1	20
Extractor Lens:	9 mm ID	17	49.49	113.1, 120.1, 226.1, 228.1, 240.1	20
Source Temp.:	350 °C	18	51.24	154.1, 252.1	20
Quad Temp.:	200 °C	19	54.16	119.8, 242.2	20
Solvent Delay		20	60.13	125.1, 126.1, 252.1	20
Time:	3 min	21	64.77	126.1, 252.1	20
Ionization Mode:	El	22	66.15	125.1, 126.1, 132.1, 252.1, 264.1	20
Instrument	Agilent 7890B GC & 5977A MSD	23	68.07	125.0, 132.2, 252.1, 264.1	20
Notes	Conditions optimized using EZGC® software produce good separation of dibenzo[a,c]anthracene and dibenzo[a,h]anthracene from indeno[1,2,3-cd]pyrene, triphenylene from chrysene, as well as the benzo[ghi]fluoranthene isomers.	24	69.10	252.1, 268.1	20
		25	71.92	139.1, 139.5, 278.1, 279.1	20
		26	74.87	138.1, 139.1, 276.1, 278.1	20
		27	75.81	138.1, 139.1, 278.1	20
		28	76.82	138.1, 276.1	20
		29	77.53	132.6, 138.1, 267.1, 276.1	20
		30	80.20	151.0, 302.1	20
		31	83.40	150.0, 151.0, 156.1, 300.1, 302.1, 312.1	20
		32	84.88	151.0, 302.1	20