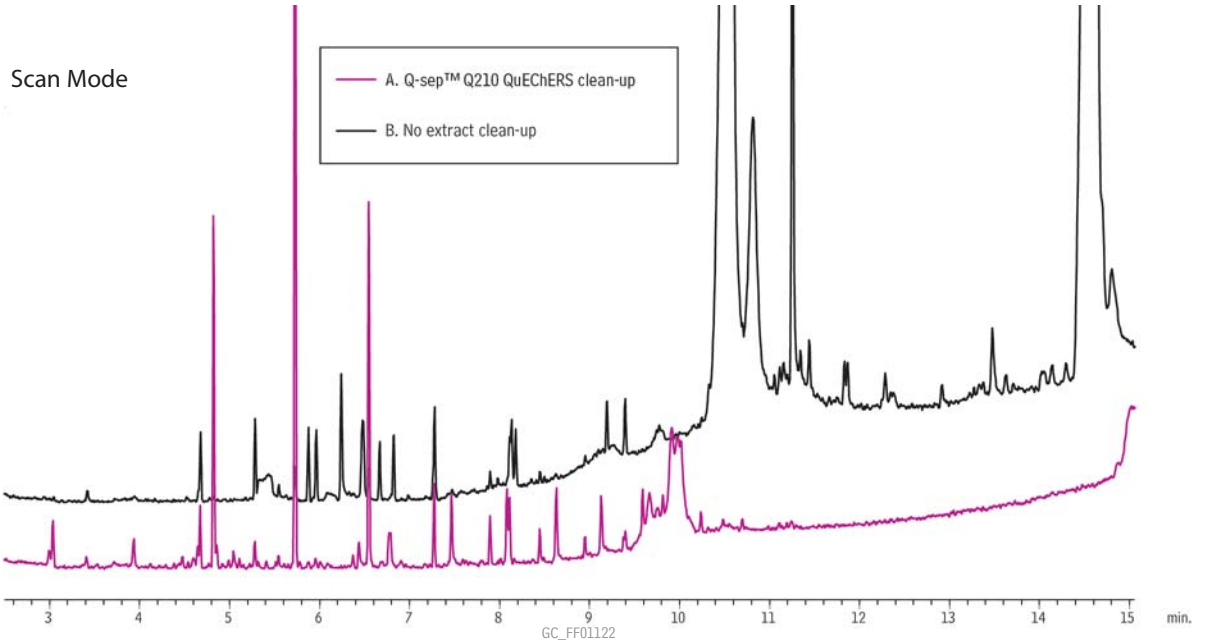
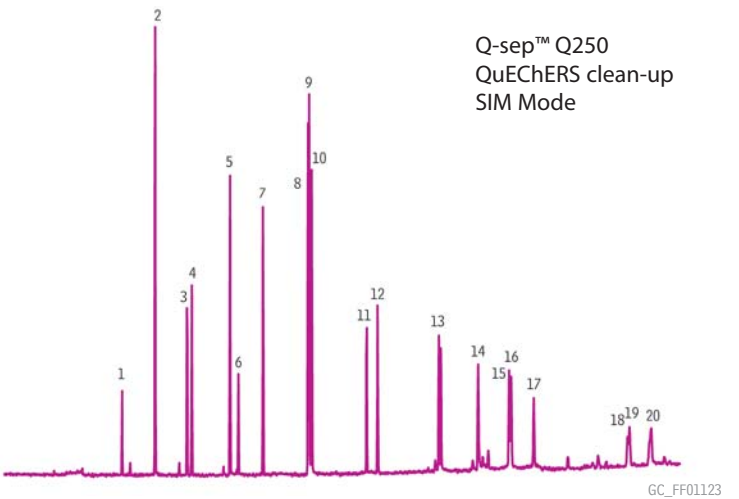
Polycyclic Aromatic Hydrocarbons in Infant Formula with and without QuEChERS dSPE Clean-up Rxi®-5Sil MS

NEW!



Compound list and ions monitored (SIM mode)

Compound	m/z
1. decafluorobiphenyl (SS)	265
2. naphthalene	128
3. 2-methylnaphthalene	142
4. 1-methylnaphthalene	142
5. acenaphthylene	152
6. acenaphthene	152
7. fluorine	166
8. phenanthrene-d10 (IS)	188
9. phenanthrene	178
10. anthracene	178
11. fluoranthene	202
12. pyrene	202
13. benzo(a)anthracene	228
14. chrysene	228
15. benzo(b)fluoranthene	252
16. benzo(k)fluoranthene	252
17. benzo(a)pyrene	252
18. indeno(1,2,3-cd)pyrene	276
19. dibenzo(a,h)anthracene	278
20. benzo(ghi)perylene	276



Column:	Rxi®-5Sil MS, 30m, 0.25mm ID, 0.25µm (cat.# 13623)
Sample:	liquid infant formula spiked at 1µg/mL with decafluorobiphenyl (cat.# 31842) and EPA Method 8310 PAH Mixture (cat.# 31841) and at 0.5µg/mL with internal standard phenanthrene-d10 (cat.# 31045), then extracted with acetonitrile and Q-sep™ Q110 QuEChERS extraction tube (cat.# 26213) A. extract with clean-up using Q-sep™ Q210 QuEChERS dSPE clean-up tube (cat.# 26215) B. extract without clean-up
Inj.:	1.0µL splitless (hold 0.15 min.), 3.5mm single gooseneck liner with w/wool (cat.# 22286-200.1)
Inj. temp.:	300°C
Carrier gas:	helium, constant flow
Flow rate:	1.4mL/min.
Oven temp.:	50°C (hold 0.5 min.) to 290°C @ 25°C/min. to 320°C @ 5°C/min. (hold 5 min.)
Det:	MS
Mode:	scan (SIM shown below)
Transfer line temp.:	290°C
Analyzer Type:	Quadrupole
Scan range:	100-350amu
Ionization:	EI
Instrument:	Shimadzu 2010 GC & QP2010 Plus MS