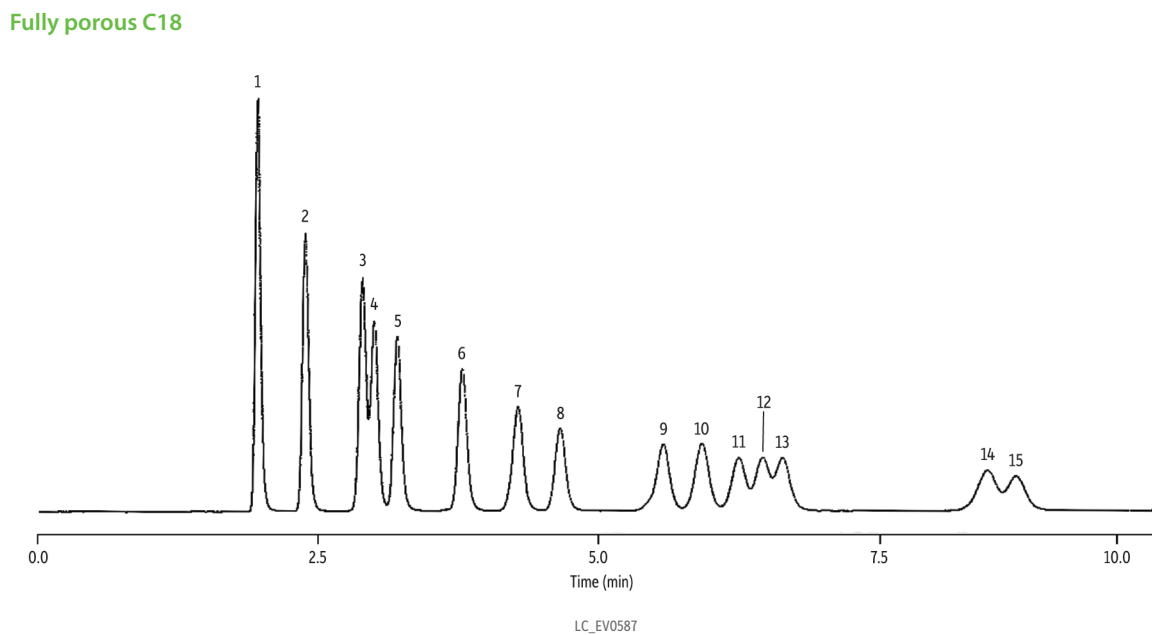
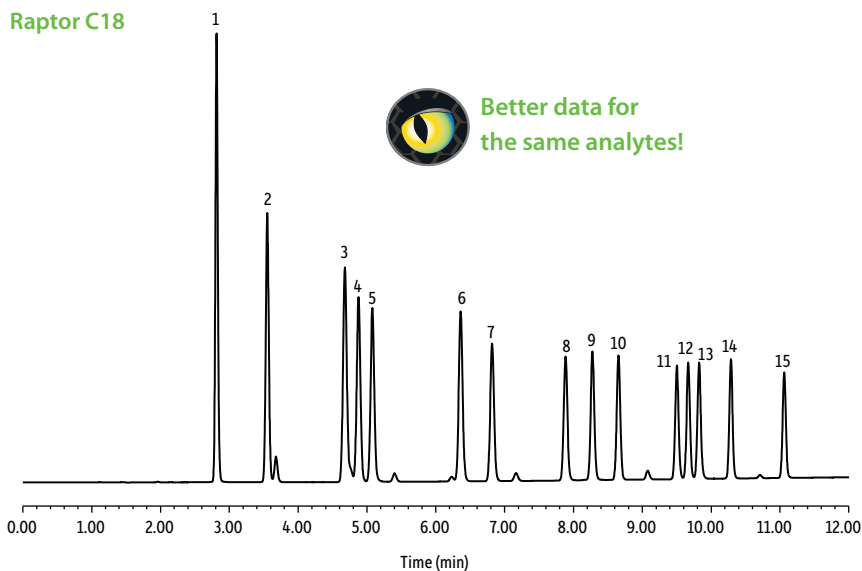


Resolution Comparison of Raptor C18 vs. FPP C18 for Raptor C18 Sales Sheet Figure 8



Peaks	Raptor C18 tr (min)	Fully Porous C18 tr (min)
1. Formaldehyde	2.814	1.954
2. Acetaldehyde	3.551	2.376
3. Acrolein	4.678	2.884
4. Acetone	4.877	2.987
5. Propionaldehyde	5.078	3.190
6. Crotonaldehyde	6.361	3.777
7. Butyraldehyde	6.818	4.273
8. Benzaldehyde	7.884	4.653
9. Isovaleraldehyde	8.276	5.572
10. Valeraldehyde	8.653	5.919
11. o-Tolualdehyde	9.502	6.242
12. m-Tolualdehyde	9.667	6.454
13. p-Tolualdehyde	9.825	6.634
14. Hexanal	10.287	8.450
15. 2,5-Dimethylbenzaldehyde	11.064	8.715

Column Standard/Sample
Diluent:
Conc.:
Mobile Phase
Flow:
Detector
Notes

See notes
 Aldehyde-ketone-DNPH TO-11A calibration mix (cat.# 31808)
 Acetonitrile
 15 µg/mL
 0.8-1.5 mL/min
 Raptor C18: UV/Vis @ 365, 4.8 nm; FPP C18: UV/Vis @ 365, 1 nm
Raptor C18
 Column: Raptor C18 (cat.# 9304A65); 150 mm x 4.6 mm ID, 2.7 µm
 Temp.: 30 °C
 Inj. vol.: 2 µL
 Mobile phase: A: water, B: methanol:acetonitrile (650:50)*
 Gradient (%B): 0.00 min (70% B); 5.00 min (75% B); 11.00 min (90% B); 11.01 min (100% B); 12.00 min (100% B); 12.01 min (70% B); 14.00 min (70% B)
 Flow: 0.8 mL/min
 Notes: *Mobile phase B was prepared by combining 650 mL methanol and 50 mL acetonitrile.

Fully Porous Particle (FPP) C18
 Column: Fully porous C18; 150 mm x 4.6 mm ID, 5 µm
 Temp.: 25 °C
 Inj. vol.: 10 µL
 Mobile phase: water:acetonitrile (30:70)
 Flow: 1.5 mL/min