

Polycyclic Tetracarboxylic Acids

ACE[®]
Ultra-inert
UHPLC & HPLC Columns

Application #AN1340

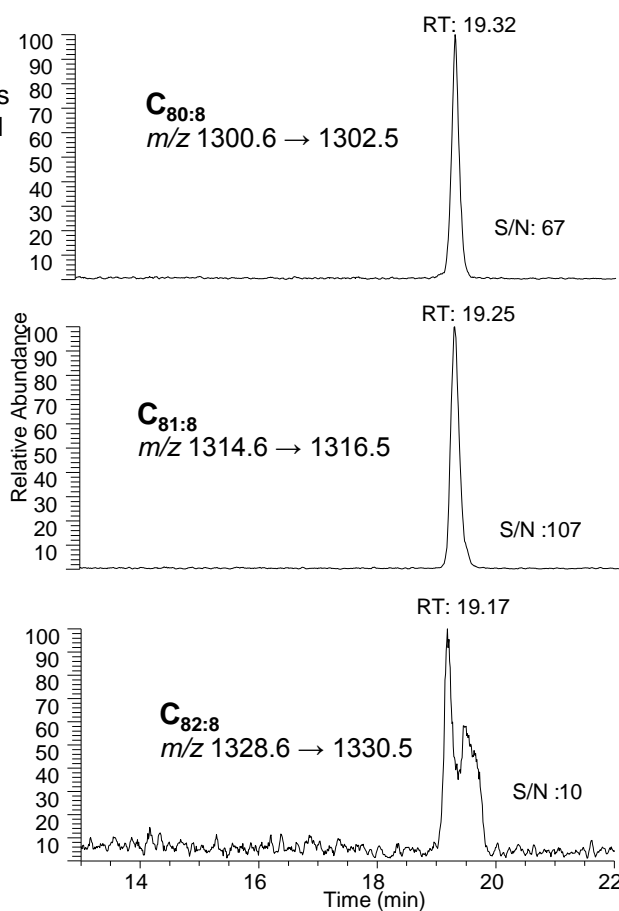
Conditions

Column: ACE UltraCore 2.5 SuperPhenylHexyl
Dimensions: 100 x 2.1 mm
Part Number: CORE-25B-1002U
Mobile Phase: A: 10 mM ammonium acetate in MeOH/H₂O (98:2 v/v)
B: 10 mM ammonium acetate in IPA/H₂O (98:2 v/v)

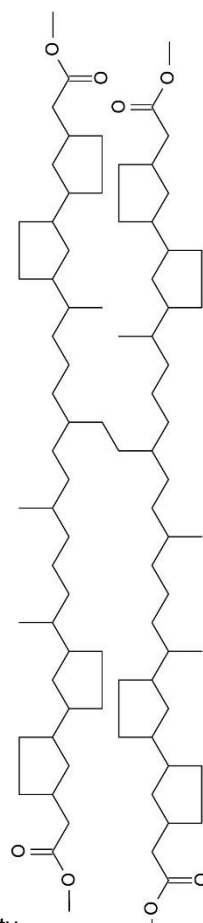
Time (mins)	%B
0.0	0
1.0	0
15.0	100
25.0	100

Flow Rate: 0.15 mL/min
Injection: 5 µL
Temperature: Ambient
Detection: LCQ Ion trap MS
LC-ESI-MS extracted ion chromatograms
Compounds detected as ammoniated quasimolecular ions [M+NH₄]⁺
Detection limit ~ 0.1 ppm

C₈₀-C₈₂ polycyclic
tetracarboxylic acids
isolated from oilfield
deposits



Tetramethyl ester of C_{80:8} ring acid



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