

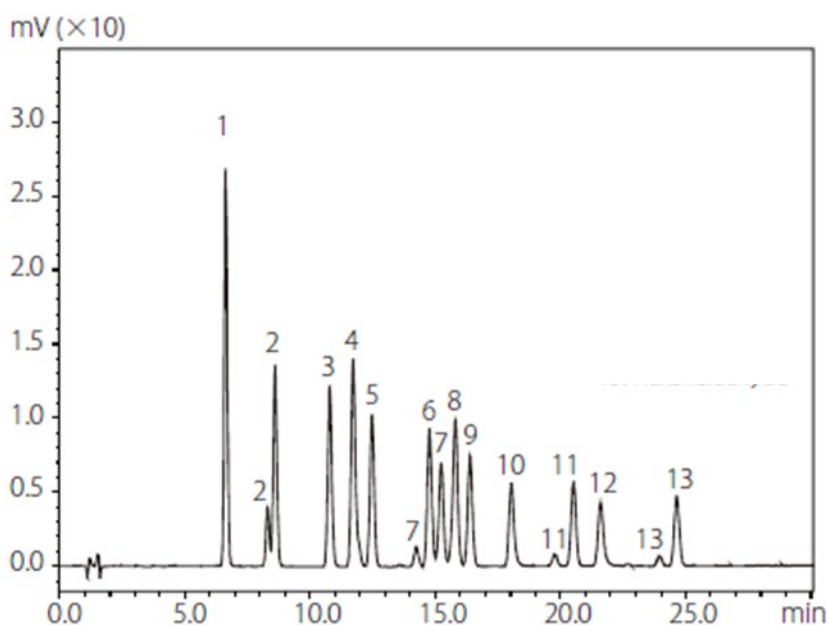
**CoreFocus**  
**Report**  
**No.174A**

LC Reversed-phase Shim-pack Series

**Shim-pack™ VP-ODS**

**Rapid Analysis of 2,4-DNPH Derivatized Aldehydes and Ketones**

**Keywords: precolumn derivatization, air pollutants**



1. Formaldehyde
  2. Acetaldehyde
  3. Acetone
  4. Acrolein
  5. Propionaldehyde
  6. Crotonaldehyde
  7. 2-Butanone
  8. Methacrolein
  9. *n*-Butyraldehyde
  10. Benzaldehyde
  11. Valeraldehyde
  12. *m*-Tolualdehyde
  13. Hexanaldehyde
- (each 1.0 mg/L as carbonyl compounds)

System	: Prominence™-i
Column	: Shim-pack VP-ODS (150 mm x 4.6 mm I.D., 5 μm) , P/N : 228-34937-91
Mobile phase	: A: Water/THF = 8/2 B: Acetonitrile
Time program	: B Conc. 20 % → 60 % (30 min) → 20 % (30-35 min)
Flow rate	: 1.5 mL/min
Injection volume	: 10 μL
Column temp.	: 40 °C
Detection	: UV 360 nm

Source : Application News L476 ([JP](#), [ENG](#))

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