

# HPLC Application

ID No.: 14474

## EPA Method 554, DNPH derivatized Carbonyl Compounds

**Column:** Luna® 5 µm C18(2) 100 Å, LC Column 250 x 4.6 mm, Ea

**Dimensions:** 250 x 4.6 mm ID

**Order No:** 00G-4252-E0

**Elution Type:** Gradient

**Eluent A:** Water

**Eluent B:** Acetonitrile

| Gradient Profile: | Step No. | Time (min) | Pct A | Pct B |
|-------------------|----------|------------|-------|-------|
|                   | 1        | 0          | 30    | 70    |
|                   | 2        | 20         | 30    | 70    |
|                   | 3        | 35         | 0     | 100   |
|                   | 4        | 45         | 0     | 100   |

**Flow Rate:** 1.5 mL/min

**Col. Temp.:** ambient

**Detection:** UV-Vis Abs.-Variable Wave.(UV) @ 230 nm (ambient)

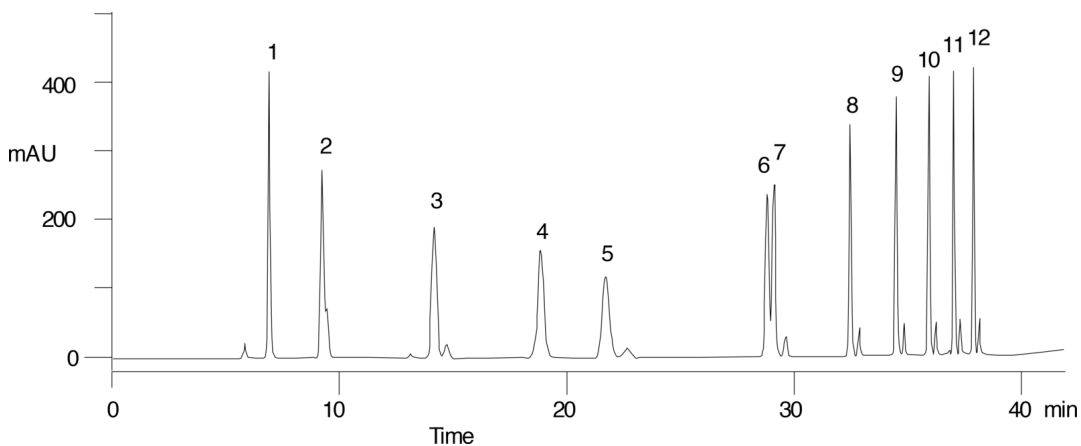
**Analyst Note:** SecurityGuard™ Guard Cartridge System extends column lifetime.

- SecurityGuard Cartridges, C18 4 x 3.0mm, 10/Pk Part No.: AJ0-4287

- Holder Part No.: KJ0-4282



Products used in this application:



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### ANALYTES:

- 1 Formaldehyde
- 2 Acetaldehyde
- 3 Propanal
- 4 Butanal
- 5 Pentanal
- 6 Hexanal
- 7 Heptanal
- 8 Octanal
- 9 Nonanal
- 10 Decanal
- 11 Cyclohexanone
- 12 Crotonaldehyde

