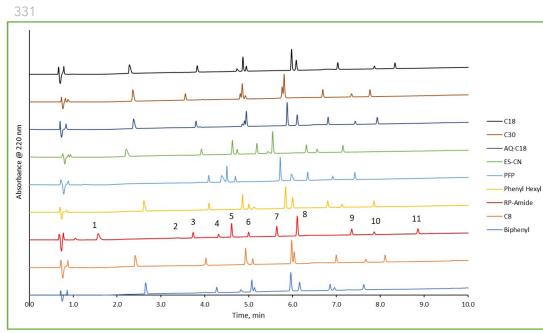
# HALO



## Pharmaceutical and Personal Care Products Column Screening



#### PEAK IDENTITIES

- 1. Trimethoprim
- 2. Enalapril
- 3. Sulfamethoxazole
- 4. Fluoxetine
- 5. Carbamazepine
- 6. Phenytoin
- 7. Diazepam
- 8. Naproxen
- 9. Diclofenac
- 10. Gemfibrozil

#### 11. Triclosan

### **TEST CONDITIONS:**

Column: 2.7 µm, 2.1 x 100 mm Mobile Phase A: Water, 0.1% Formic Acid Mobile Phase B: Acetonitrile, 0.1% Formic Acid Gradient: Time %B 0.0 10 10.0 100 Flow Rate: 0.3 mL/min Temperature: 30 °C Back Pressure: 213 bar Detection: UV 220 nm, PDA Injection Volume: 0.5 µL Sample Solvent: 90/10 Water/ Acetonitrile Data Rate: 100 Hz Response Time: 0.025 sec. Flow Cell: 1 µL Instrument: Shimadzu Nexera X2

Common pharmaceutical and personal care products (PPCPs), such as over-the-counter medications, veterinary prescriptions, soaps, lotions, and even insect repellents, have become a growing concern to our environment. A column screening study was performed based on EPA 542 in order to increase resolution and show differences in selectivity. It is important to screen multiple stationary phases in order to get the overall best separation of any given mixture. For this particular mix of compounds, the HALO<sup>®</sup> RP-Amide gives the best resolution out of all of the other phases that were screened.



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