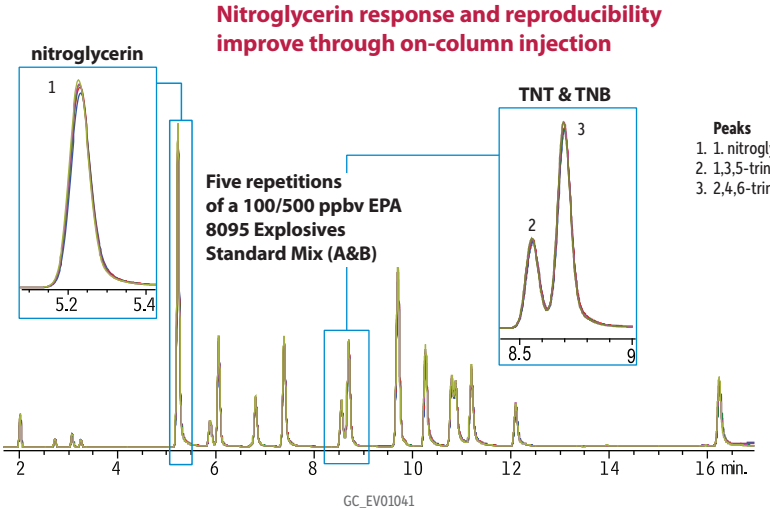
Explosives by U.S. EPA Method 8095 Rxi-5ms with PTV On-Column Liner



Peaks	Conc. (ng/mL)
1. 1. nitroglycerin	500
2. 1,3,5-trinitrotoluene	100
3. 2,4,6-trinitrobenzene	100

Column Rxi-5ms, 6 m, 0.53 mm ID, 0.5 µm (cat.# 563153)
using IP deactivated guard column 5 m, 0.53 mm ID (cat.# 10045)
Sample 8095 Calibration mix A (cat.# 31607)
8095 Calibration mix B (cat.# 31608)
Diluent: Acetonitrile
Injection PTV splitless (hold 0.35 min)
Liner: PTV on-column liner (cat.# 24976)
Inlet Temp. Program: 55 °C to 285 °C at 10 °C/min (hold 10 min)
PTV Splitless Purge Flow: 15 mL/min

Oven
Oven Temp.: 50 °C to 280 °C at 10 °C/min (hold 10 min)
Carrier Gas He, constant flow
Linear Velocity: 60 cm/sec @ 300 °C
Detector µ-ECD @ 300 °C
Make-up Gas Flow Rate: 60 mL/min
Make-up Gas Type: N_2

Notes Absolute area reproducibility improves for all compounds, and sensitive compound responses improve dramatically because of the lack of contact with the injection port.

Nitroglycerin: Absolute Area % RSD = 2.6%; Relative Area % RSD = 1.6%
TNT: Absolute Area % RSD = 1.5%; Relative Area % RSD = 1.4%