

Azide in Air

Instrument: [Agilent 1200 Series HPLC system](#)

Introduction:

Concern for the health of workers exposed to toxic vapours in industries where sodium azide is processed, e.g., in the manufacture of explosives, pharmaceuticals and pesticides, has led to the publication of a number of methods for the detection of azide at trace levels in the environment..

Conditions

Column: Spherisorb S5 ODS2,
250 x 4.6 mm ID
Guard: Spherisorb S5 ODS2,
50 x 4.6 mm ID
Mobile Phase: 50% Acetonitrile in water (v/v)
Flow Rate: 1 ml/min
Temperature: 35°C
Wavelength: 240 nm
Injection Vol.: 25 µl

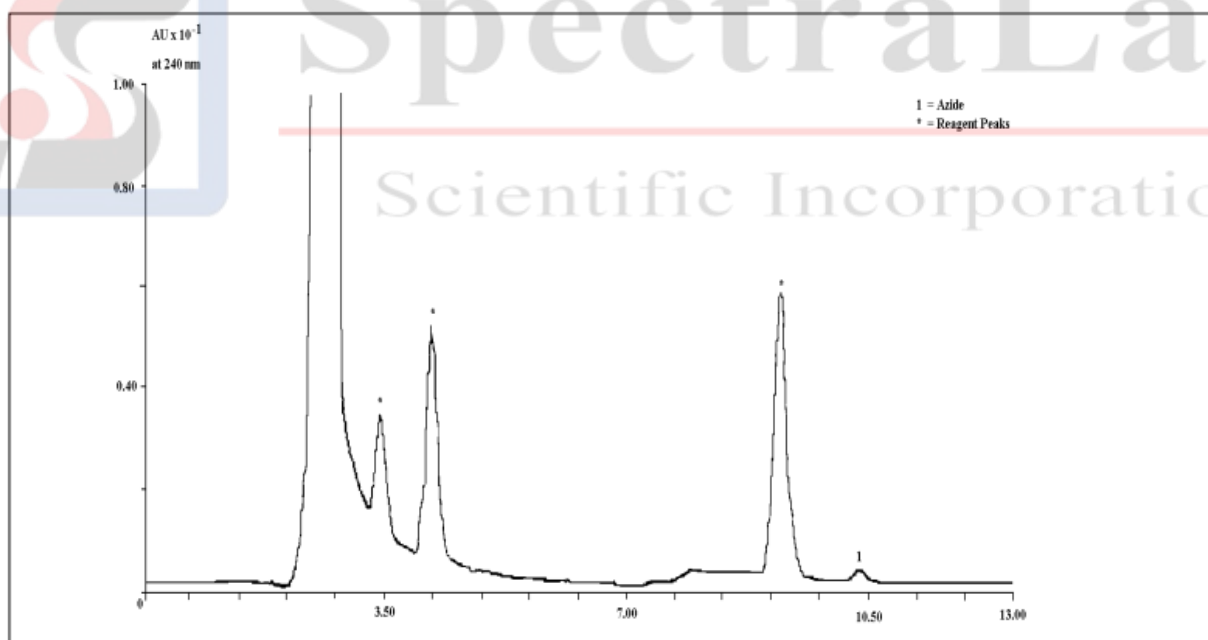


Figure 1 Azide in factory air samples at ppt levels

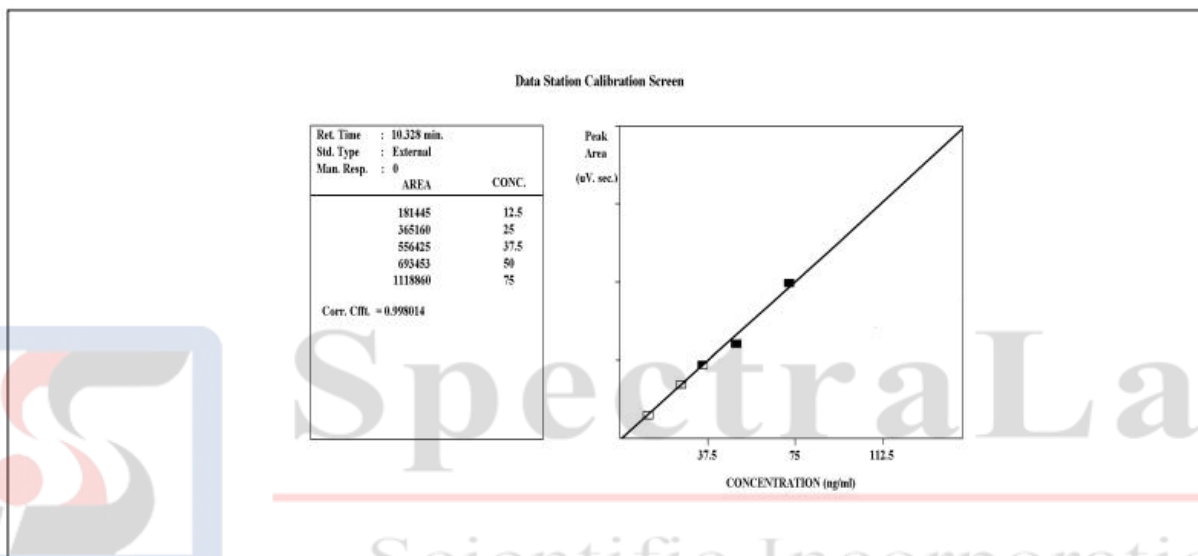


Figure 2 Five Point Calibration for Azide Standards

Reference:

Stephen J. Swarin and Richard A. Waldo

http://www.gbcsscientific.com/appnotes/HPLC_app_note_019.pdf