

S*PURE Application Note - Environmental

Triazine Herbicides in Water

On SEClute SPE Column



SPE Conditions

Procedure using SEClute™ C18-Fast columns, 500mg/3mL, (Part #5138758)

Sample Treatment: Spiked 500mL of water spiked with 10ug each triazine herbicide (simazine, atrazine, propazine, terbuthylazine, and cyanazine).

Conditioning: 2 x 2mL acetone, 2 x 2mL methanol, 2 x 2mL water. Column must not run dry!

Sample Application: Attached a 75mL reservoir (Part #210575) to the SPE tube with a syringe adapter (Part # 210705) and aspirate the sample through the tube.

Elution: Elute triazine herbicides with 3 x 1mL acetone. Adjust sample volume to 1mL by evaporating off acetone with a warm nitrogen stream.

GC Conditions

Injected 1.6uL of above sample onto AT™ 5ms column, 30m x 0.25mm i.d., 0.25µm film thickness (Part #15807) under the following conditions:

Oven: 80°C (0 minutes)-280°C (0 minutes) at 10°C/min

Injector: 250°C

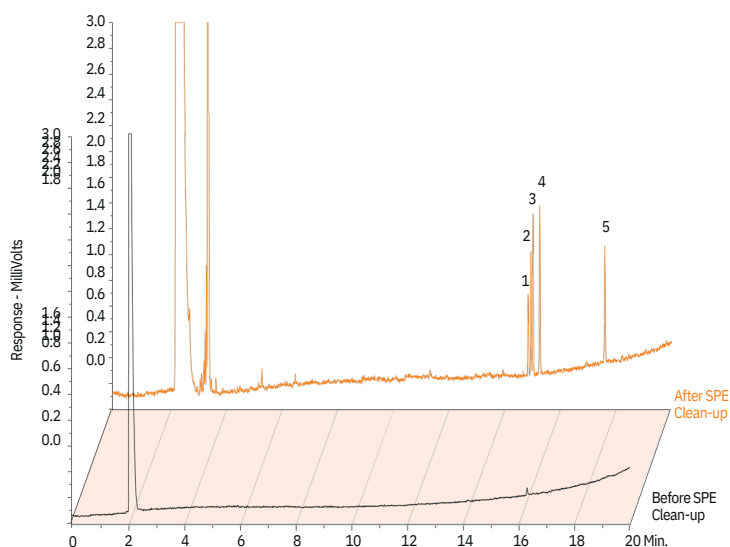
FID: 310°C, 14.5psig helium

Linear Velocity: 29cm/sec

Flow: 1.1mL/minute

Split Ratio: 50:1

SVF: 55mL/minute (all per Agilent 6890)



1. Simazine
2. Atrazine
3. Propazine
4. Terbuthylazine
5. Cyanazine

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