

# S\*PURE Application Note - Environmental

## Chlorinated Pesticides in Vegetables On SEClute SPE Column



### SPE Conditions

Procedure using SEClute™ C18-Max SPE tube, 500mg/6mL (Part #5138767)

Sample Treatment: Homogenize 5 grams green bell pepper with 25mL methanol, spike with 0.5µg each of 16 chlorinated pesticides. Filter with 75mL filter column (Part #210775). Dilute to 200mL with DI water and shake.

Conditioning: 2 x 5mL methanol, then 5mL DI water.

Sample Application: Attach 75mL reservoir (Part #210575) with a syringe adapter (Part #210705) and apply entire sample.

Elution: Elute chlorinated pesticides with 2 x 1mL n-hexane/CH<sub>2</sub>Cl<sub>2</sub> (70:30), evaporated this to dryness and reconstituted with 1mL n-hexane.

### GC Conditions

Capillary column (Part #15807), AT™ 5ms, 30m x 0.25mm i.d., 0.25µm film thickness.

Oven: 80°C (1min) to 100°C at 15°C/min, to 160°C at 10°C/min, to 275°C at 5°C/min, column head pressure at 14.0psi on the EPC-1000, dead time of 1.91 minutes

Linear Velocity: 26cm/sec

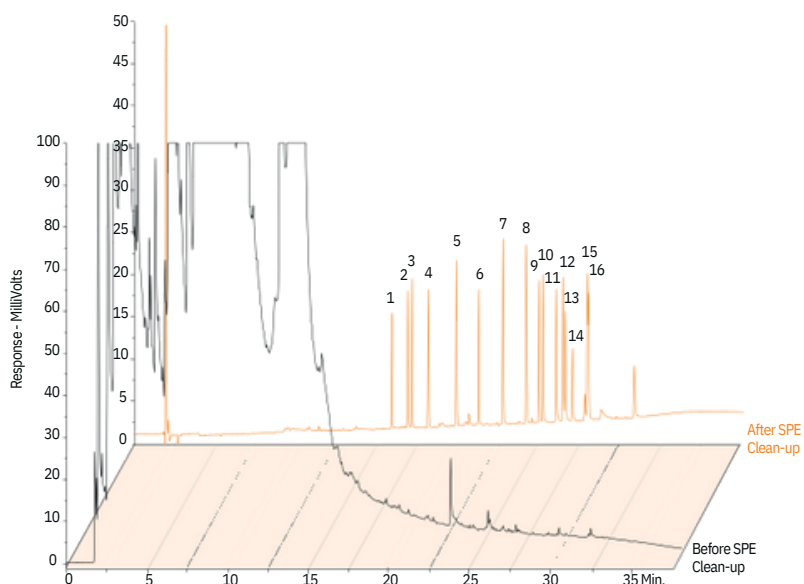
Flow: 0.77mL/minute

Split Vent Flow: 50mL/minute

Split Ratio: 65:1

Injector: 250°C

ECD: 310



- |                       |                        |
|-----------------------|------------------------|
| 1. a-BHC              | 9. p,p'-DDE            |
| 2. b-BHC              | 10. Dieldrin           |
| 3. g-BHC              | 11. Endrin             |
| 4. d-BHC              | 12. Endosulfan II      |
| 5. Heptachlor         | 13. p,p'-DDD           |
| 6. Aldrin             | 14. Endrin Aldehyde    |
| 7. Heptachlor Epoxide | 15. p,p'-DDT           |
| 8. Endosulfan I       | 16. Endosulfan Sulfate |

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