

Application Report 37

Pesticides on the Equity-5

This application shows the separation of the 18 pesticides on the US EPA's Target Compound List (TCL) plus some additional compounds. These additional pesticides are of interest due to their frequent use or classification by the EPA as persistent, bioaccumulative and toxic (PBT). Separation of all 25 pesticides was achieved on the Equity-5 in less than 30 minutes.

Key Words

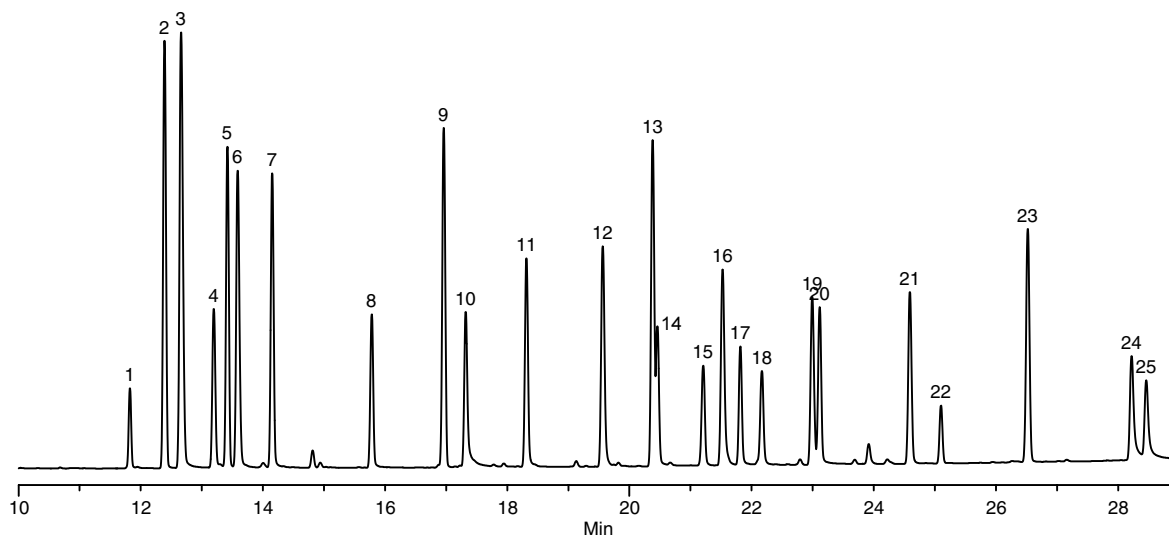
Pesticides, Equity, 28089-U, 48913

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Raw Data File Name:
J:\GCDATA\APPS\Pest006.D

Acquisition System: GC 6249

Notebook Reference: 1435-61



G002105

Conditions

Column: Equity-5, 30m x 0.25mm ID, 0.25 μ m
Cat. No.: 28089-U
Oven: 100°C (2 min) to 160°C @ 15°C/min, to 280°C @ 5°C/min (1 min)
Inj.: 250°C
Det.: ECD, 300°C
Flow: Helium, 22cm/sec, constant
Injection: 2 μ L, pulsed splitless (pulsed to 30psi for 0.2 min)
Liner: 4mm ID single taper
Sample: pesticides, 80-800ppb in hexane

Peak IDs

1. Trifluralin, 80ppb
2. α -BHC, 100ppb
3. Hexachlorobenzene, 90ppb
4. β -BHC, 100ppb
5. γ -BHC, 100ppb
6. Quintozene, 90ppb
7. δ -BHC, 100ppb
8. Heptachlor, 100ppb
9. Aldrin, 100ppb
10. Dimethylchlorthal, 85ppb
11. Heptachlor epoxide, 100ppb
12. Endosulfan I, 100ppb
13. Dieldrin, 100ppb
14. 4,4'-DDE, 100ppb
15. Endrin, 100ppb
16. Endosulfan II, 100ppb
17. 4,4'-DDD, 100ppb
18. Endrin aldehyde, 100ppb
19. Endosulfan sulfate, 100ppb
20. 4,4'-DDT, 100ppb
21. Endrin ketone, 100ppb
22. Methoxychlor, 100ppb
23. Mirex, 120ppb
24. cis-Permethrin*
25. trans-Permethrin*

*770ppb mixed cis/trans isomers