

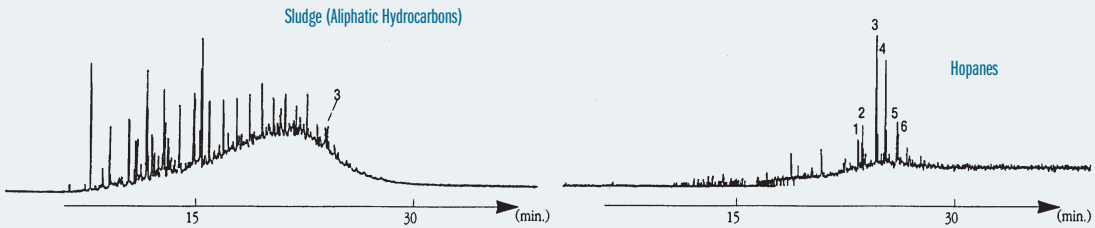
ANALYSIS OF SOIL AND SLUDGE OF A WATER-TREATMENT PLANT

Column: **TRB-5**, P/N TR-120233
 Dimensions: 30m x 0.32mm x 0.25 µm
 Injection: splitless 1 min
 Carrier gas: He, 20 psi
 Oven temperature: 65°C(1.2 min) @ 30°C/min to 90°C(1 min) @ 10°C/min to 300°C(15 min)
 Detector: MS

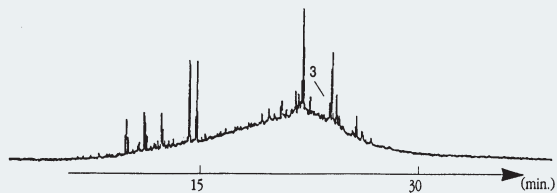
Peak Name

- 1- Tg
- 2- Tm
- 3- C29 ab
- 4- C30 ab
- 5- C31 ab (22S)
- 6- C31 ab (22R)

Chromatogram provided by T. Vaguero, L. Stronguió and L. Comellas from CETS Institut Químic de Sarrià, Barcelona.



Soil + Sludge (Aliphatic Hydrocarbons)



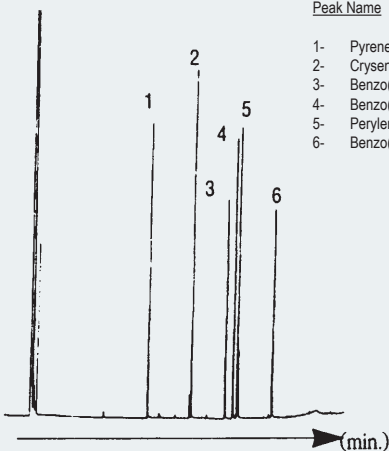
TKG 1154

ANALYSIS OF POLYCYCLIC AROMATIC HYDROCARBONS

Column: **TRB-5**, P/N TR-120232
 Dimensions: 30m x 0.25mm x 0.25 µm
 Injection: 1 µL, cold on-column
 Carrier gas: H₂, 50 cm/s
 Oven temperature: 110°C @ 6°C/min to 300°C
 Detector: FID, 325°C

Peak Name

- 1- Pyrene
- 2- Crysene
- 3- Benzo(b)fluoranthene
- 4- Benzo(e)pyrene
- 5- Perylene
- 6- Benzo(g,h,i)perylene

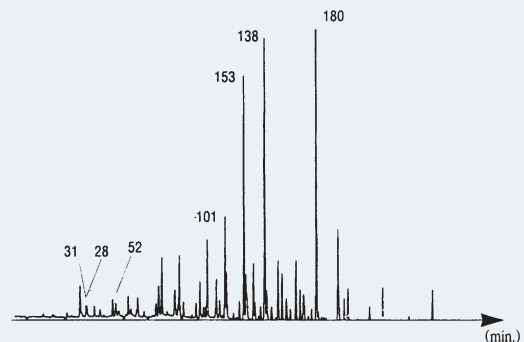


TKG 1156

ANALYSIS OF PCB'S

Column: **TRB-5**, P/N TR-120262
 Dimensions: 60m x 0.25mm x 0.25 µm

Chromatogram provided by A. de Pablo from ASINEL S.A., Madrid.

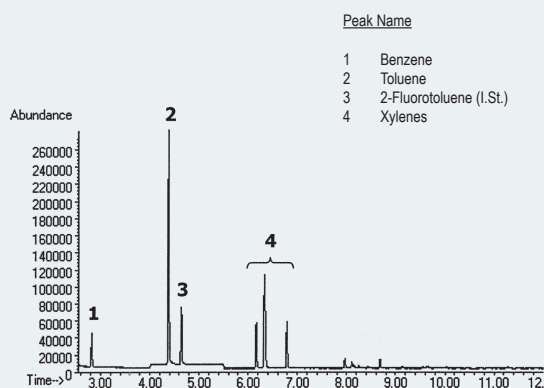


TKG 1157

SEPARATION OF BTX

Column: **Meta.X5**, P/N TR-820232
 Dimensions: 30m x 0.25mm x 0.25 μ m
 Injection: 1 μ L BTX mixture, split 1:20, 250°C
 Carrier gas: He, constant pressure 10 psi (68.9 KPa)
 Oven temperature: 40°C (2min) @ 10°C/min to 100°C @ 20°C/min to 200°C
 Detector: MS, SIM, 250°C transfer line

Chromatogram provided by Bàrbara Bagó and Lluís Comellas from Institut Químic de Sarrià (IQS), Barcelona.

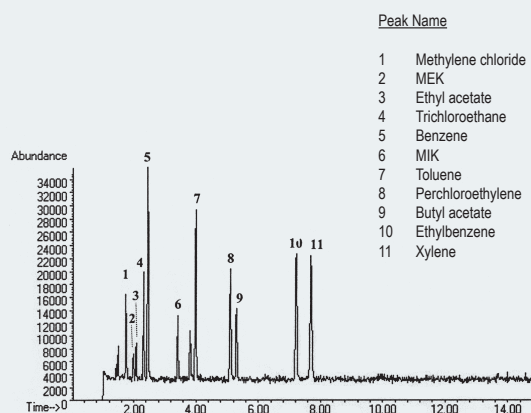


TKG 1014

SEPARATION OF VOLATIL SOLVENTS

Column: **Meta.X5**, P/N TR-820232
 Dimensions: 30m x 0.25mm x 0.25 μ m
 Injection: 1 μ L solvents mixture, Head Space, split 1:20, 250°C
 Carrier gas: He, constant pressure 11 psi (75.8 KPa)
 Oven program: 50°C (10min) @ 3°C/min to 90°C (0.5min) @ 30°C/min to 200°C(5min)
 Detector: MS, full scan, 250°C transfer line

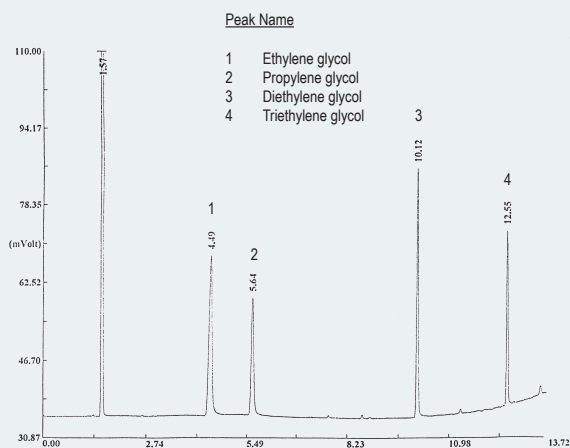
Chromatogram provided by Bàrbara Bagó and Lluís Comellas from Institut Químic de Sarrià (IQS), Barcelona.



TKG 1015

GLYCOLS

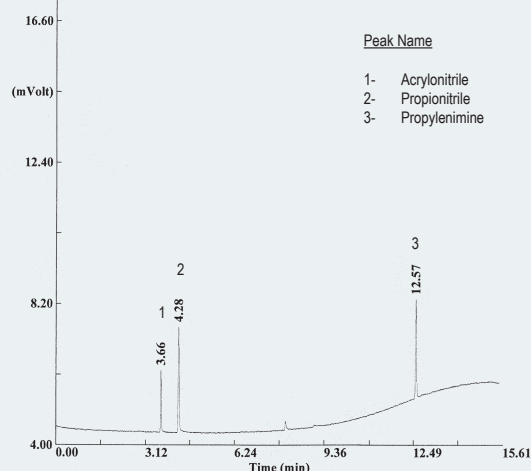
Column: **TRB-F50**, P/N TR-571015
 Dimensions: 15m x 0.53mm x 1.0 μ m
 Injection: 0.4 μ L Glycols mixture in Methanol, split 1:50, 15ng/comp on column, 250°C
 Carrier gas: H₂, constant pressure 1.5 psi (10.3 KPa), 40.15 cm/s (40°C)
 Oven program: 40°C (5min) to 210°C/(10min) @ 15°C/min
 Detector: FID, 280°C



TKG 1016

NITRILES AND AMINES IN WATER

Column: **TRB-5A**, P/N TR-210532
 Dimensions: 30m x 0.25mm x 0.5 μ m
 Injection: 0.5 μ L (0.1mg/mL) acquos sample , split 1:25, 200°C
 Carrier Gas: He, constant pressure 12 psi (82.7 KPa).
 Oven Temperature: 50°C(5min) @ 15°C/min to 200°C
 Detector: FID, 280°C

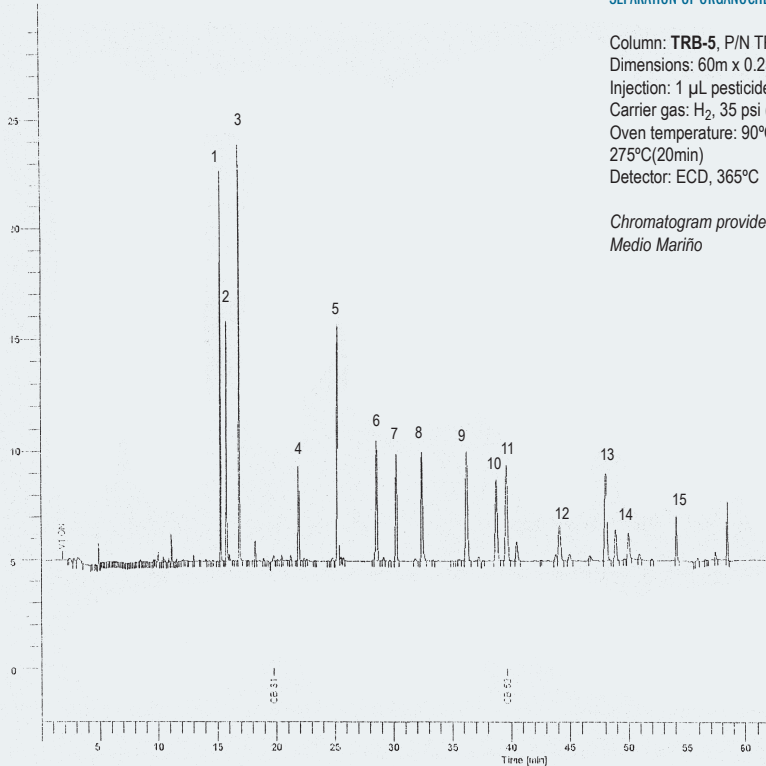


TKG 1020

SEPARATION OF ORGANOCHLORINATED PESTICIDES

Column: **TRB-5**, P/N TR-120262
 Dimensions: 60m x 0.25mm x 0.25 µm
 Injection: 1 µL pesticides standard, 270°C
 Carrier gas: H₂, 35 psi (241.1 KPa)
 Oven temperature: 90°C(8min) @ 30°C/min to 215°C(40min) @ 5°C/min to 275°C(20min)
 Detector: ECD, 365°C

Chromatogram provided by Nieves Caro from Centro Control de Calidad do Medio Mariño



Peak Name

- 1- α-HCH
- 2- HCB
- 3- γ-HCH
- 4- Heptachlor
- 5- Aldrin
- 6- Isodrin
- 7- Heptachlorepoide
- 8- PCB-155
- 9- Transnonador
- 10- 4,4'-DDE
- 11- Dieldrin
- 12- Endrin
- 13- 4,4'-DDD
- 14- 2,4-DDT
- 15- 4,4'-DDT

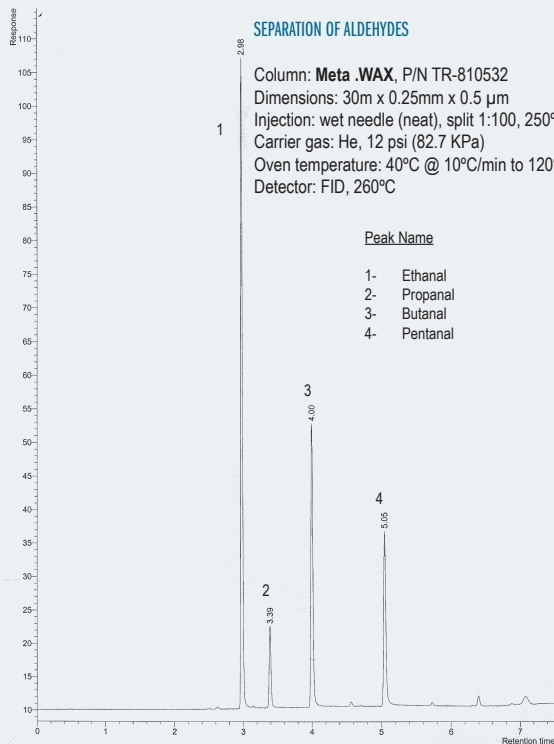
TKG 1017

SEPARATION OF ALDEHYDES

Column: **Meta .WAX**, P/N TR-810532
 Dimensions: 30m x 0.25mm x 0.5 µm
 Injection: wet needle (neat), split 1:100, 250°C
 Carrier gas: He, 12 psi (82.7 KPa)
 Oven temperature: 40°C @ 10°C/min to 120°C
 Detector: FID, 260°C

Peak Name

- 1- Ethanal
- 2- Propanal
- 3- Butanal
- 4- Pentanal



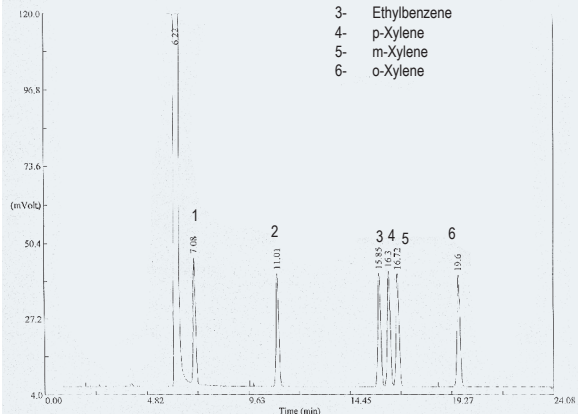
TKG 1018

SEPARATION OF BTEX ISOMERS

Column: **Meta .WAX**, P/N TR-811035
 Dimensions: 30m x 0.53mm x 1.0 µm
 Injection: 1 µL BTEX sample (50 ppm on column), 200°C
 Carrier gas: He, 25 cm/s (35°C)
 Oven temperature: 35°C @ 2°C/min to 75°C(5min)
 Detector: FID, 260°C

Peak Name

- 1- Benzene
- 2- Toluene
- 3- Ethylbenzene
- 4- p-Xylene
- 5- m-Xylene
- 6- o-Xylene

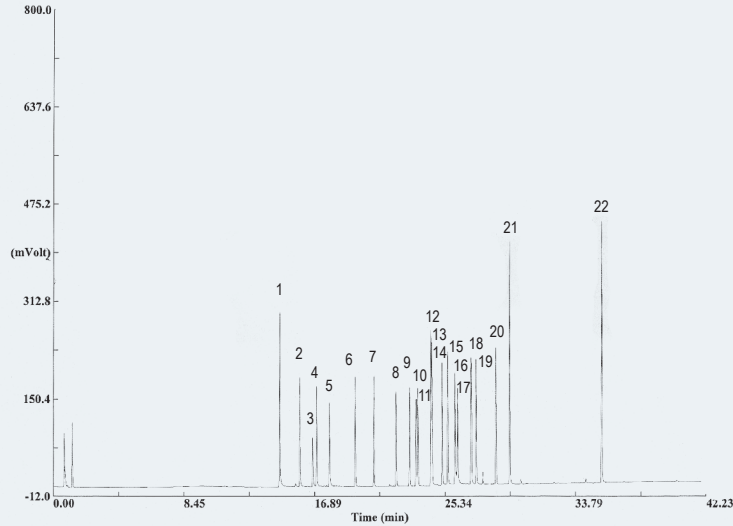


TKG 1019

Column: **Meta.X5**, P/N TR-820232
 Dimensions: 30m x 0.25mm x 0.25 μ m
 Injection: 1 μ L chlorinated pesticide mix, splitless (0,5 min), 250°C (50-170 ppb on-column)
 Carrier gas: H₂, constant pressure 20 psi (137.8 KPa)
 Oven program: 80°C (5min) to 100°C @ 15°C/min to 160°C @ 8°C/min to 285°C(5min) @ 5°C/min
 Detector: ECD, 310°C

Peak Name

- 1 tetrachloro-m-xylene
- 2 alpha-BHC
- 3 beta-BHC
- 4 gamma-BHC
- 5 delta-BHC
- 6 heptachlor
- 7 aldrin
- 8 heptachlor epoxide
- 9 gamma-chlordane
- 10 endosulfan I
- 11 alpha-chlordane
- 12 dieldrin
- 13 4,4'-DDE
- 14 endrin
- 15 endosulfan II
- 16 4,4'-DDD
- 17 endrin aldehyde
- 18 endosulfan sulfate
- 19 4,4'-DDT
- 20 endrin ketone
- 21 methoxychlor
- 22 decachlorobiphenyl



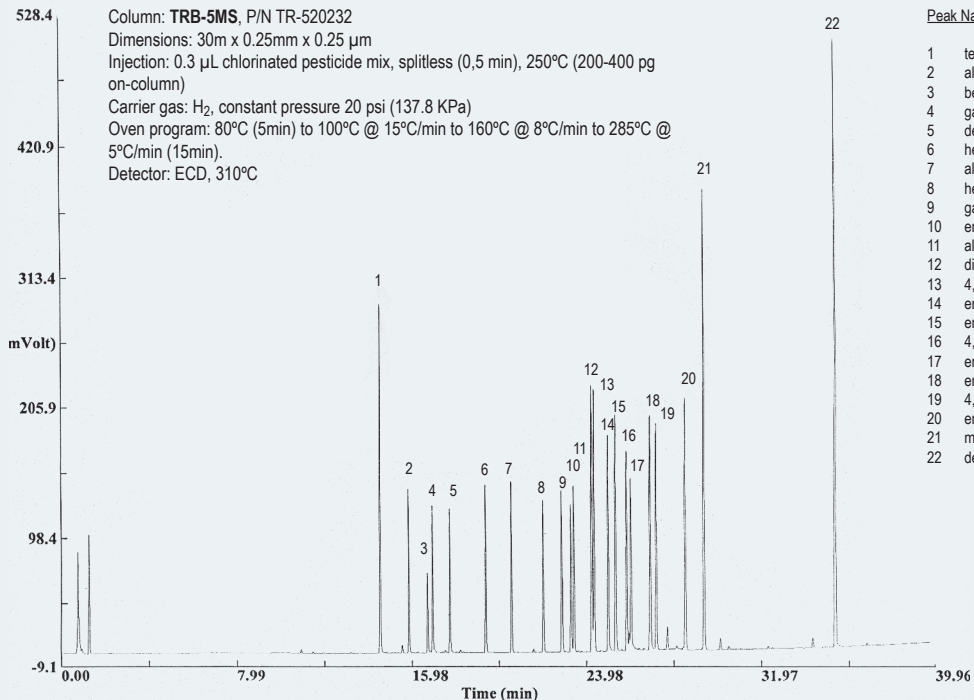
TKG 1021

CHLORINATED PESTICIDES

Column: **TRB-5MS**, P/N TR-520232
 Dimensions: 30m x 0.25mm x 0.25 μ m
 Injection: 0.3 μ L chlorinated pesticide mix, splitless (0,5 min), 250°C (200-400 pg on-column)
 Carrier gas: H₂, constant pressure 20 psi (137.8 KPa)
 Oven program: 80°C (5min) to 100°C @ 15°C/min to 160°C @ 8°C/min to 285°C @ 5°C/min (15min).
 Detector: ECD, 310°C

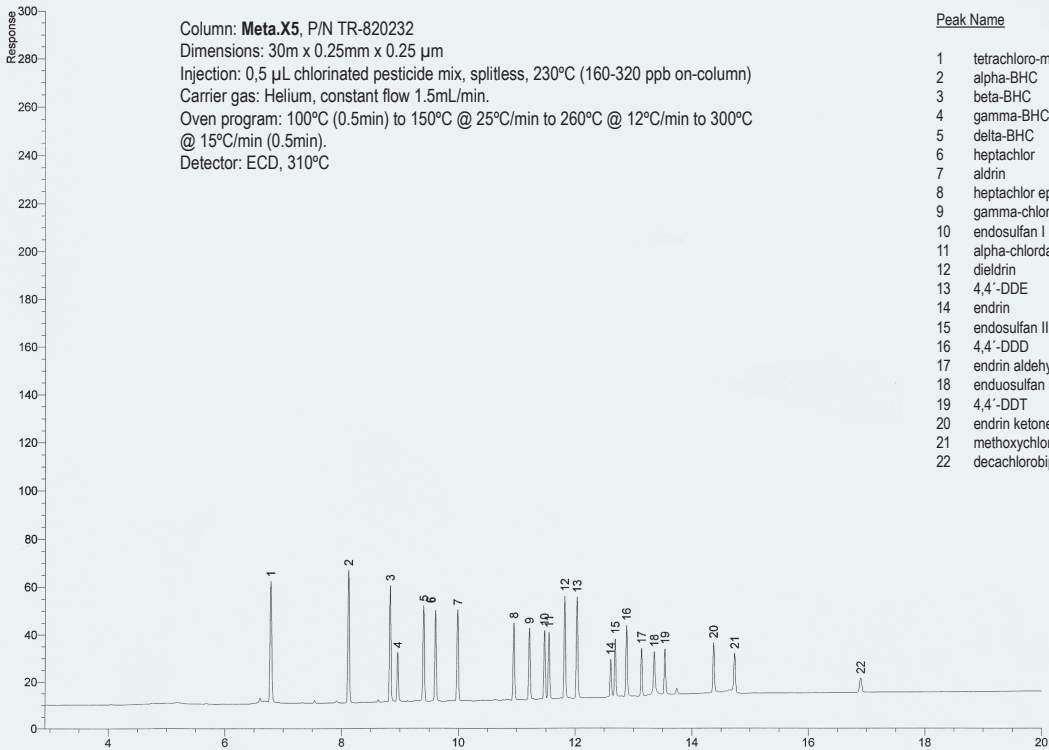
Peak Name

- 1 tetrachloro-m-xylene
- 2 alpha-BHC
- 3 beta-BHC
- 4 gamma-BHC
- 5 delta-BHC
- 6 heptachlor
- 7 aldrin
- 8 heptachlor epoxide
- 9 gamma-chlordane
- 10 endosulfan I
- 11 alpha-chlordane
- 12 dieldrin
- 13 4,4'-DDE
- 14 endrin
- 15 endosulfan II
- 16 4,4'-DDD
- 17 endrin aldehyde
- 18 endosulfan sulfate
- 19 4,4'-DDT
- 20 endrin ketone
- 21 methoxychlor
- 22 decachlorobiphenyl



TKG 1022

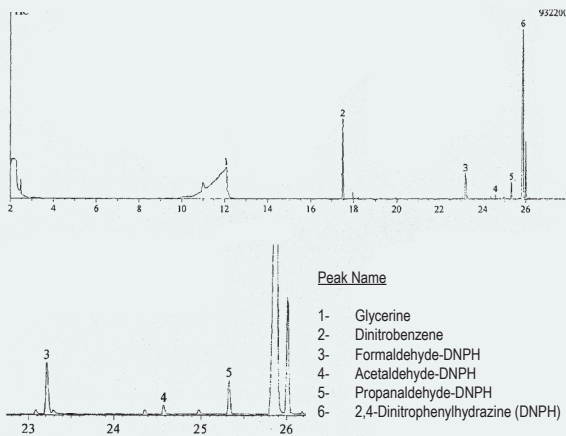
CHLORINATED PESTICIDES



TKG 1023

Column: **TRB-5**, P/N TR-120232
 Dimensions: 30m x 0.25mm x 0.25 µm
 Injection: 1 µL Aldehydes in Air Sample after extraction (derivatisized with DNPH), splitless (1 min), 250°C
 Carrier gas: He, constant flow 1 mL/min
 Oven temperature: 50°C(1min) @ 10°C/min to 300°C
 Detector: MS, 280°C (transfer liine)

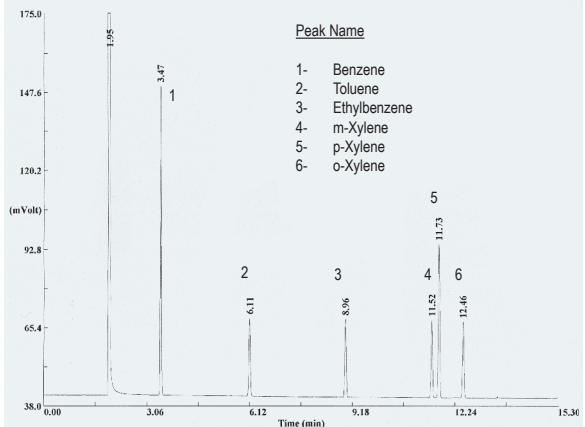
Chromatogram provided by F. Sisteré from IUCT



TKG 1036

SEPARATION OF BTEX ISOMERS

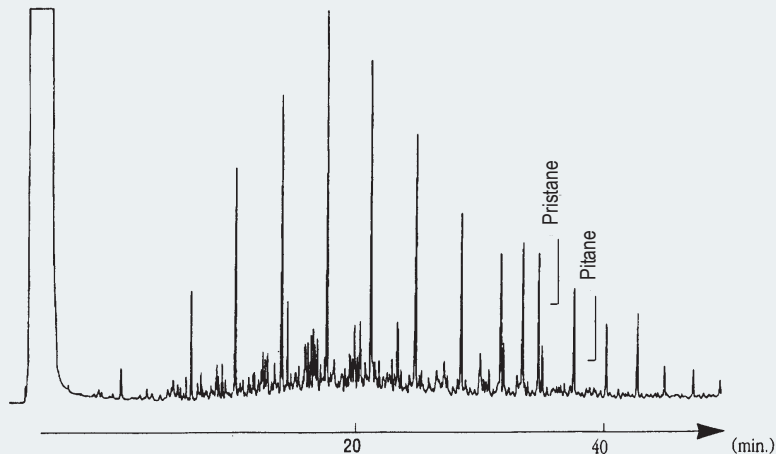
Column: **TRB-624**, P/N TR-601833
 Dimensions: 30m x 0.32mm x 1.8 µm
 Injection: 1 µL BTEX sample (50 ppm on column), 260°C
 Carrier gas: H₂, 6.9 psi (47.9 KPa)
 Oven temperature: 40°C @ 8°C/min to 240°C(10min)
 Detector: FID, 260°C



TKG 1043

ANALYSIS OF HYDROCARBONS (GASOIL)

Column: **TRB-5**, P/N TR-120232
 Dimensions: 30m x 0.25mm x 0.25 µm
 Injection: 1 µL, splitless 0.7min
 Carrier gas: H₂, 50 cm/s (110°C)
 Oven temperature: 60°C(3 min) @ 4°C/min to 300°C
 Detector: FID, 305°C

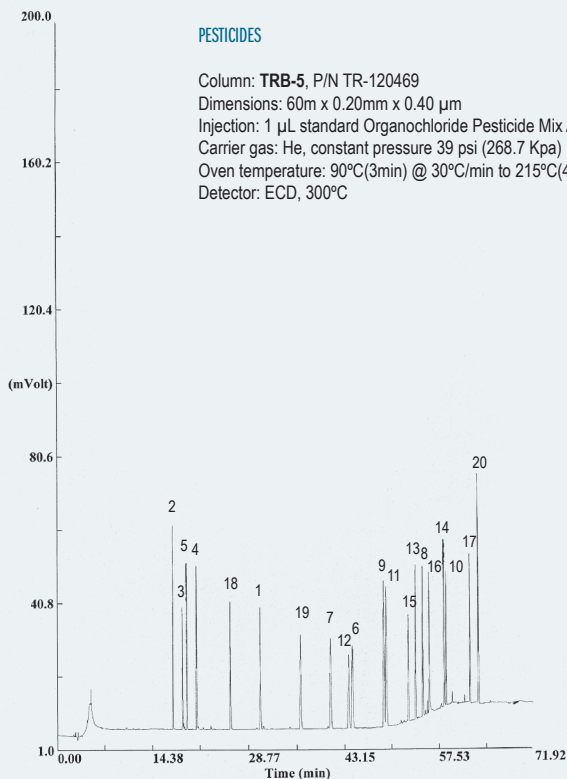


Chromatogram provided by Dr. Caixach from Laboratori Espectrometria de Masses, CSIC, Barcelona

TKG 1173

PESTICIDES

Column: **TRB-5**, P/N TR-120469
 Dimensions: 60m x 0.20mm x 0.40 µm
 Injection: 1 µL standard Organochloride Pesticide Mix AB#2, splitless(1min), 270°C
 Carrier gas: He, constant pressure 39 psi (268.7 Kpa)
 Oven temperature: 90°C(3min) @ 30°C/min to 215°C(40min) @ 5°C/min to 275°C(30min)
 Detector: ECD, 300°C



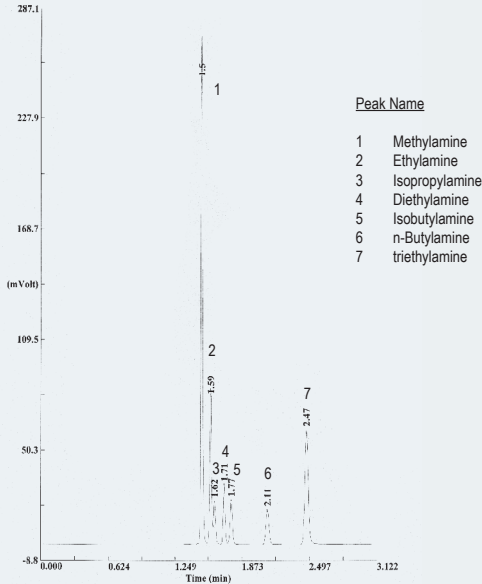
Peak Name

- 1- Aldrin
- 2- α-BHC
- 3- β-BHC
- 4- δ-BHC
- 5- γ-BHC (lindane)
- 6- α-chlordane
- 7- γ-chlordane
- 8- 4,4'-DDD
- 9- 4,4'-DDE
- 10- 4,4'-DDT
- 11- Dieldrin
- 12- Endosulfan I
- 13- Endosulfan II
- 14- Endosulfan sulfate
- 15- Endrin
- 16- Endrin aldehyde
- 17- Endrin ketone
- 18- Heptachlor
- 19- Heptachlor epoxide (B)
- 20- methoxychlor

TKG 1055

AMINES

Column: **TR-WAX.DB**, P/N TR-931035
 Dimensions: 30m x 0.53mm x 1.0 µm
 Injection: 1 µL Amines mixture, Head Space, split 1:50, 260°C
 Carrier gas: H₂, constant pressure 1.8 psi (12.40Kpa)
 Oven temperature: 60°C
 Detector: FID, 280°C

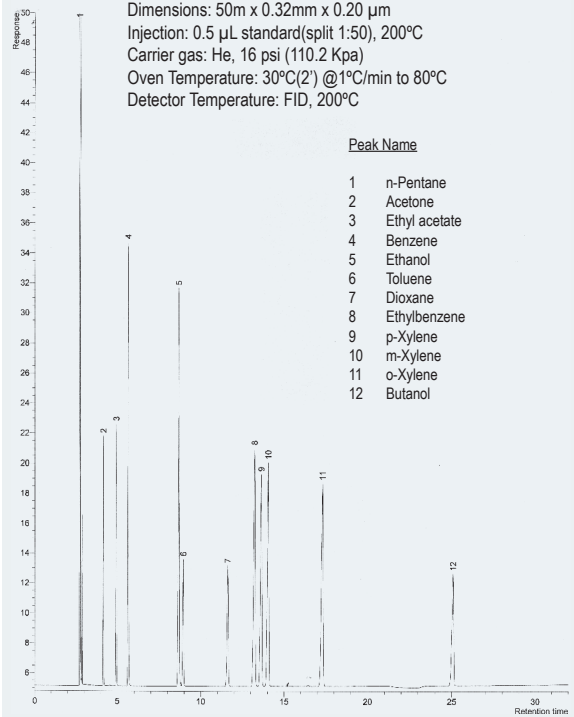


Peak Name	Retention Time (min)
1	Methylamine
2	Ethylamine
3	Isopropylamine
4	Diethylamine
5	Isobutylamine
6	n-Butylamine
7	triethylamine

TKG 1058

SEPARATION OF SOLVENTS

Column: **TR-Meta.WAX 400**, P/N TR-402153
 Dimensions: 50m x 0.32mm x 0.20 µm
 Injection: 0.5 µL standard(split 1:50), 200°C
 Carrier gas: He, 16 psi (110.2 Kpa)
 Oven Temperature: 30°C(2') @1°C/min to 80°C
 Detector Temperature: FID, 200°C

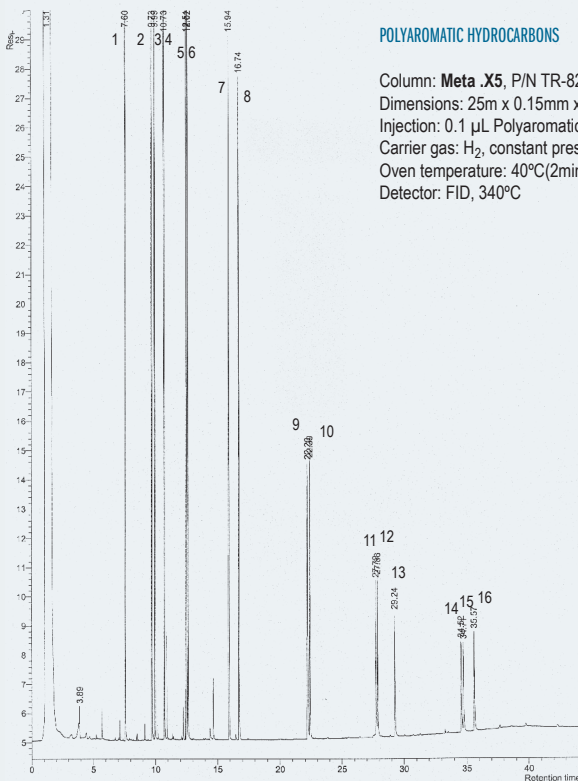


Peak Name	Retention Time (min)
1	n-Pentane
2	Acetone
3	Ethyl acetate
4	Benzene
5	Ethanol
6	Toluene
7	Dioxane
8	Ethylbenzene
9	p-Xylene
10	m-Xylene
11	o-Xylene
12	Butanol

TKG 1060

POLYAROMATIC HYDROCARBONS

Column: **Meta .X5**, P/N TR-821326
 Dimensions: 25m x 0.15mm x 0.15 µm
 Injection: 0.1 µL Polyaromatic hydrocarbons, (200ng/comp), splitless 30s, 300°C
 Carrier gas: H₂, constant pressure 35 psi (241.1 Kpa)
 Oven temperature: 40°C(2min) @ 20°C/min to 200°C @ 4°C/min to 310°C(5min)
 Detector: FID, 340°C



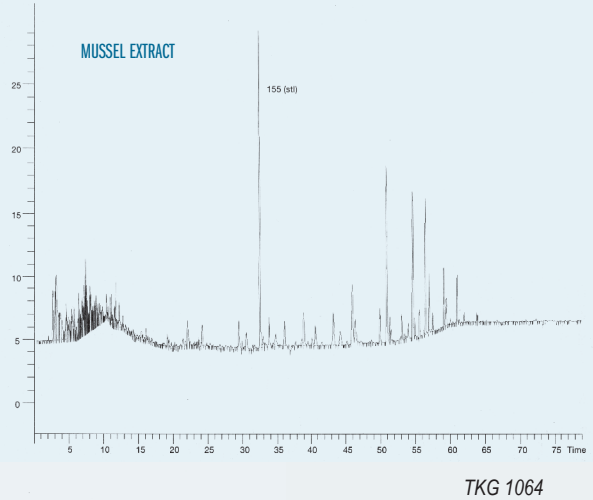
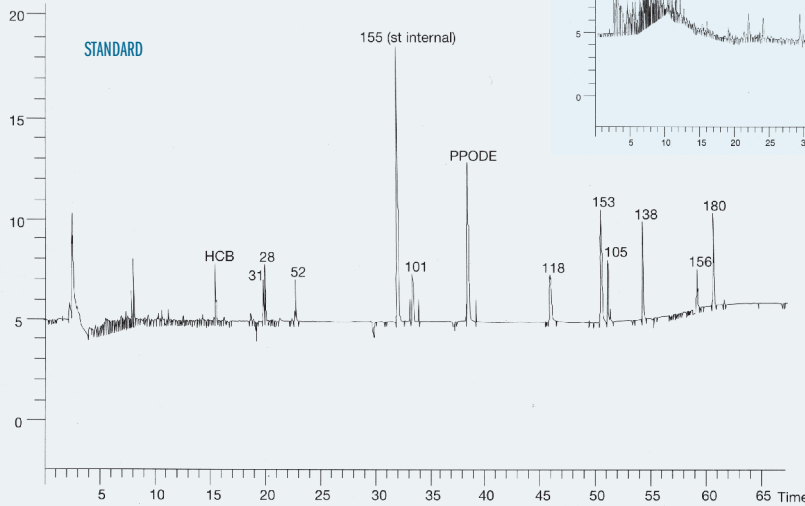
Peak Name	Retention Time (min)
1	Naphthalene
2	Acenaphthylene
3	acenaphthene
4	Fluorene
5	Phenanthrene
6	Anthracene
7	Fluoranthene
8	Pyrene
9	Benzo(a)anthracene
10	Chrysene
11	Benzo(b)fluoranthene
12	Benzo(k)fluoranthene
13	Benzo(a)pyrene
14	Indeno(1,2,3)pyrene
15	Dibenzo(a,h)anthracene
16	Benzo(g,h,i)perylene

TKG 1061

PCB'S IN MUSSELS

Column: **TRB-5**, P/N TR-120262
 Dimensions: 60m x 0.25mm x 0.25 µm
 Injection: PCBs in Mussle, split (1:30) 270°C
 Carrier gas: H₂, 35 psi (241.1 kPa)
 Oven program: 90°C (8') to 215°C(40') @ 30°C/min. to 275°C(20') @ 5°C/min.
 Detector: ECD, 365°C, make up Argon/methane

Chromatogram provided by Nieves Caro from Centro Control de Calidad do Medio Mariño.



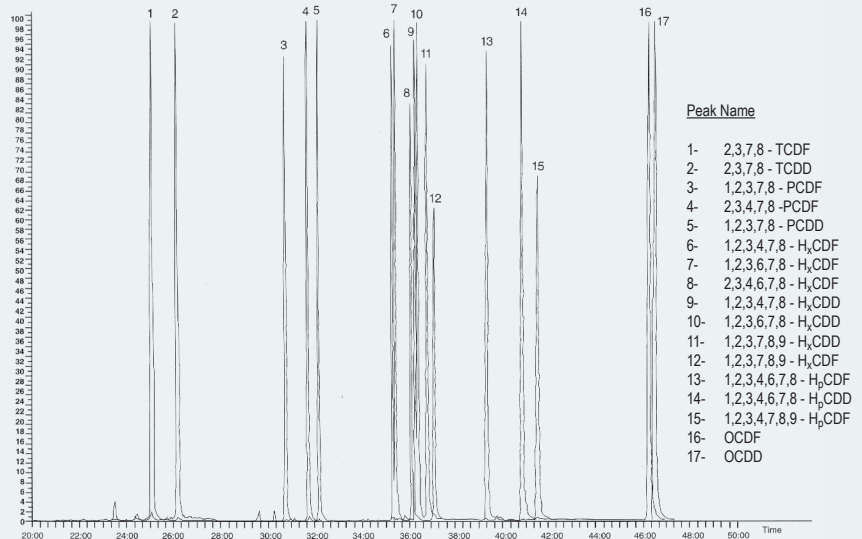
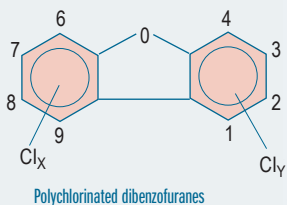
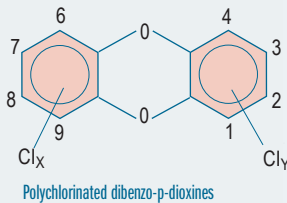
DIOXINES AND FURANES SEPARATION

Column: **TRB-5ms**, P/N TR-520262
 Dimensions: 60m x 0.25mm x 0.25 µm
 Injection: 1 µl, splitless, 1', 300°C
 Carrier gas: He, 250 kPa, Pcte.

Oven program: 150°C to 200°C @ 30°C/min. to 235°C(10') @ 3°C/min. to 300°C
 Detector: MS (SIR), 260°C
 Sample: EPA 1613CS3 standard

Chromatogram provided by Jordi Diaz from Laboratorio Medioambiental IQS.

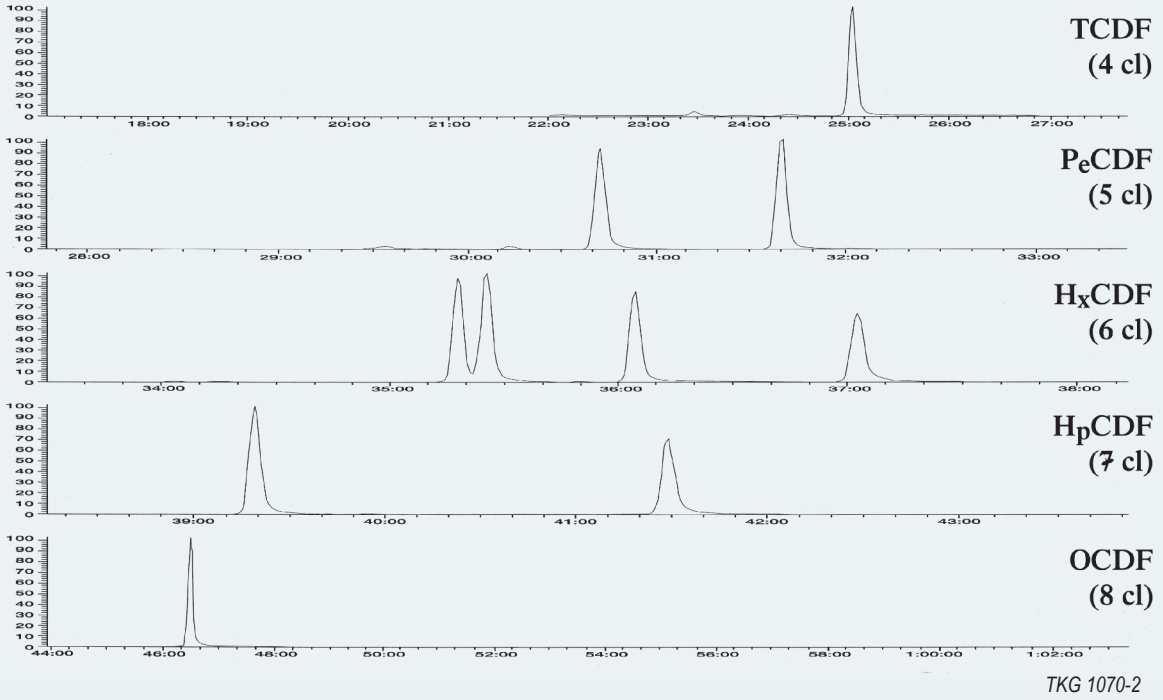
SEPARATION OF ANALOGUES 2,3,7,8, SUBSTITUTED BY A PCDDs AND PCDFs STANDARD



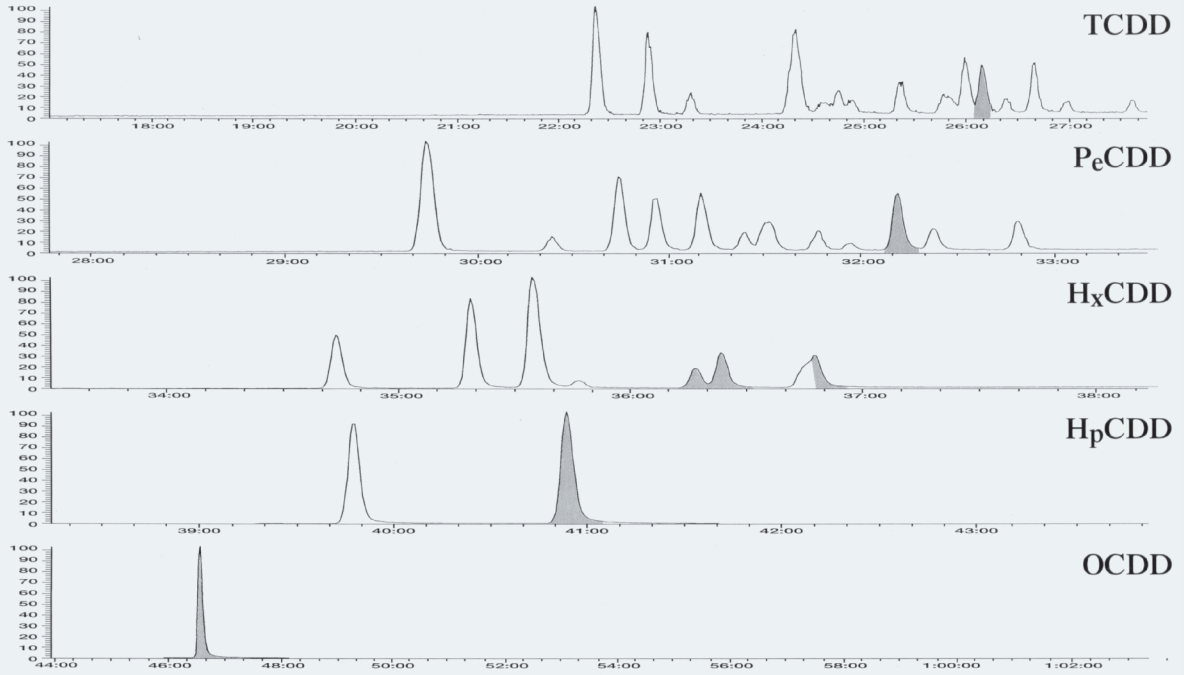
TRB-5MS DIOXINES



TRB-5MS FURANES

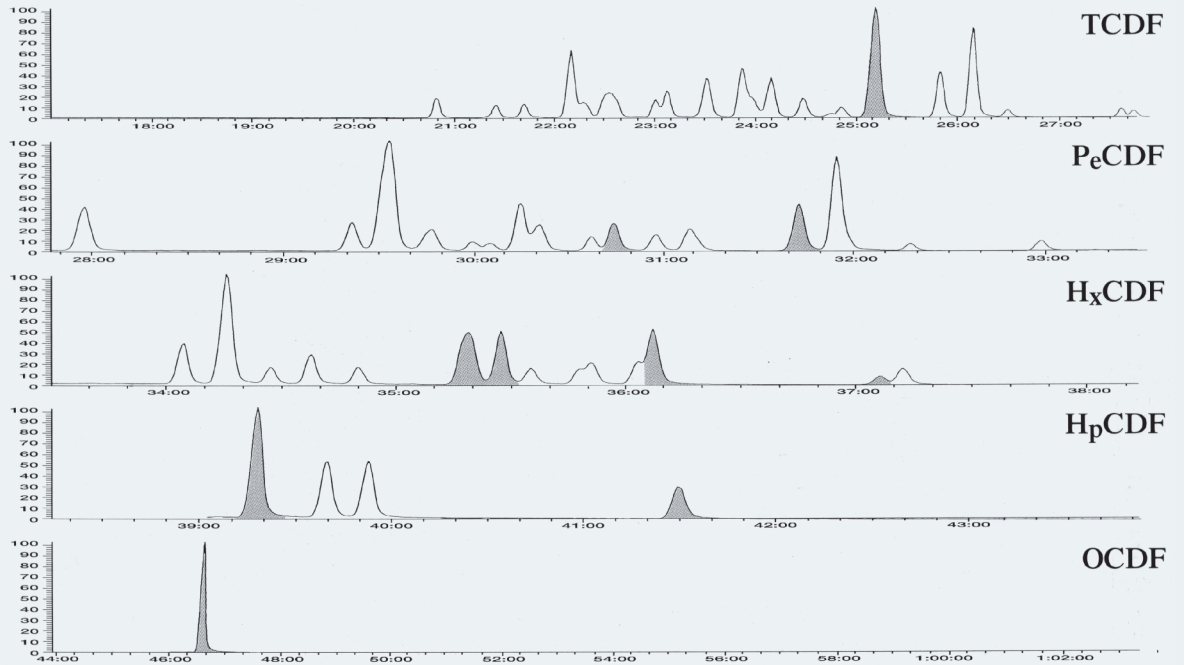


TRB-5MS DIOXINES. EMISION SAMPLE



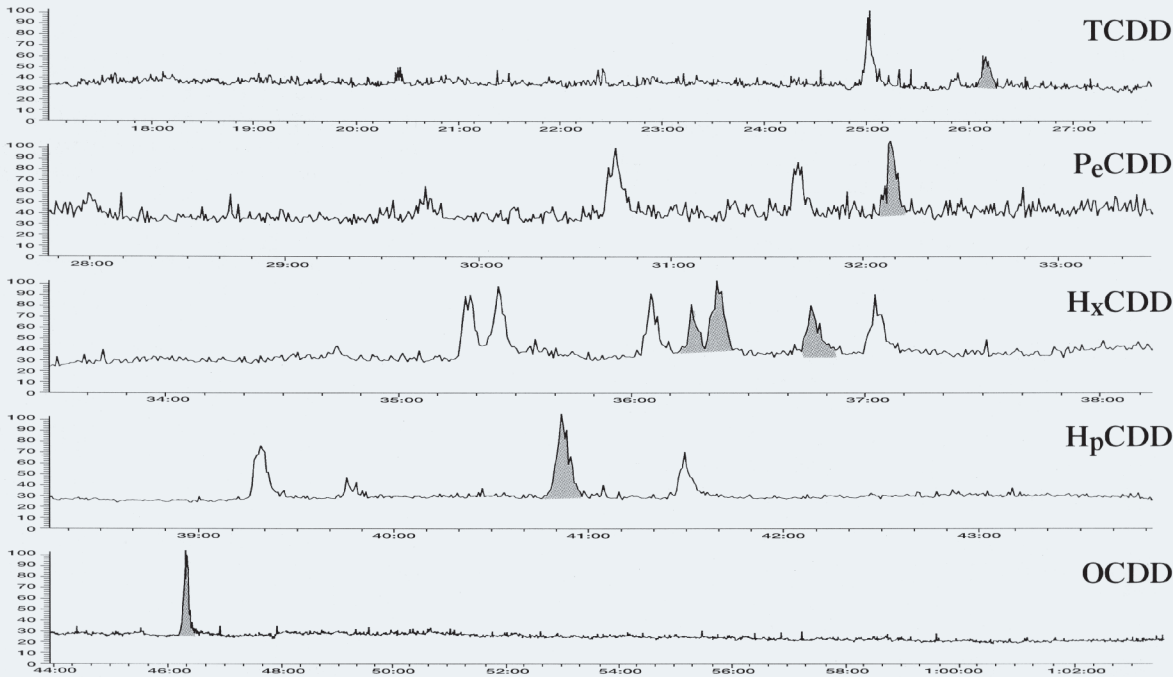
TKG 1071-2

TRB-5MS FURANES. EMISION SAMPLE



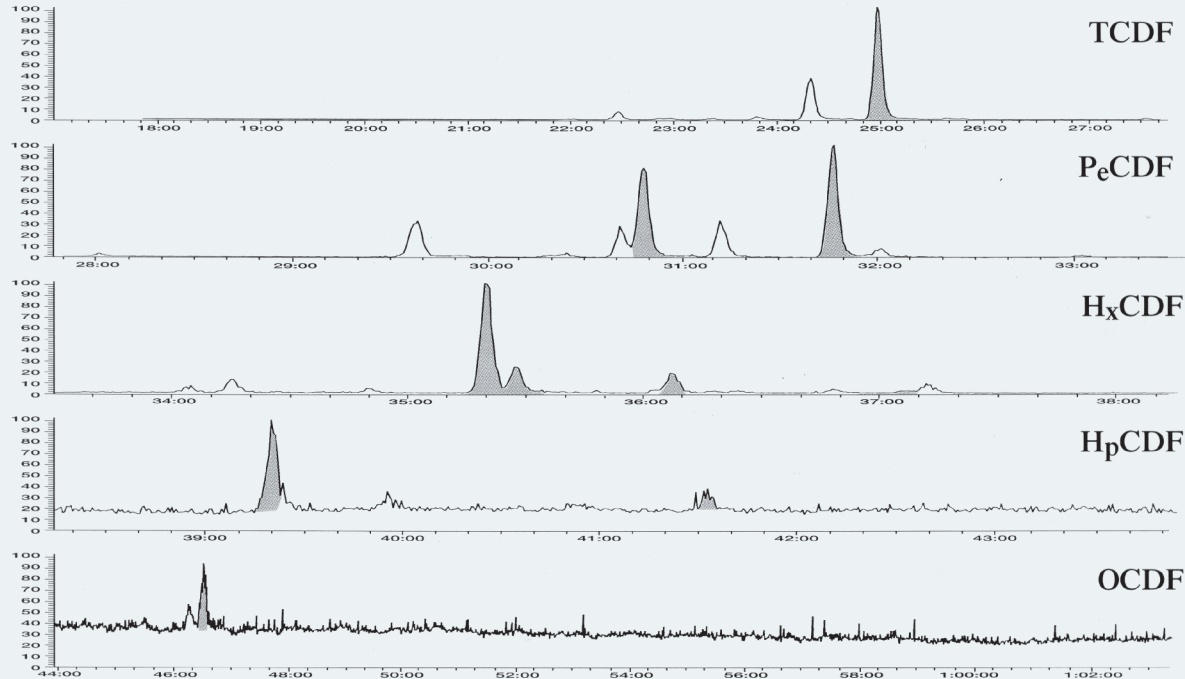
TKG 1071

TRB-5MS DIOXINES - FOOD SAMPLE

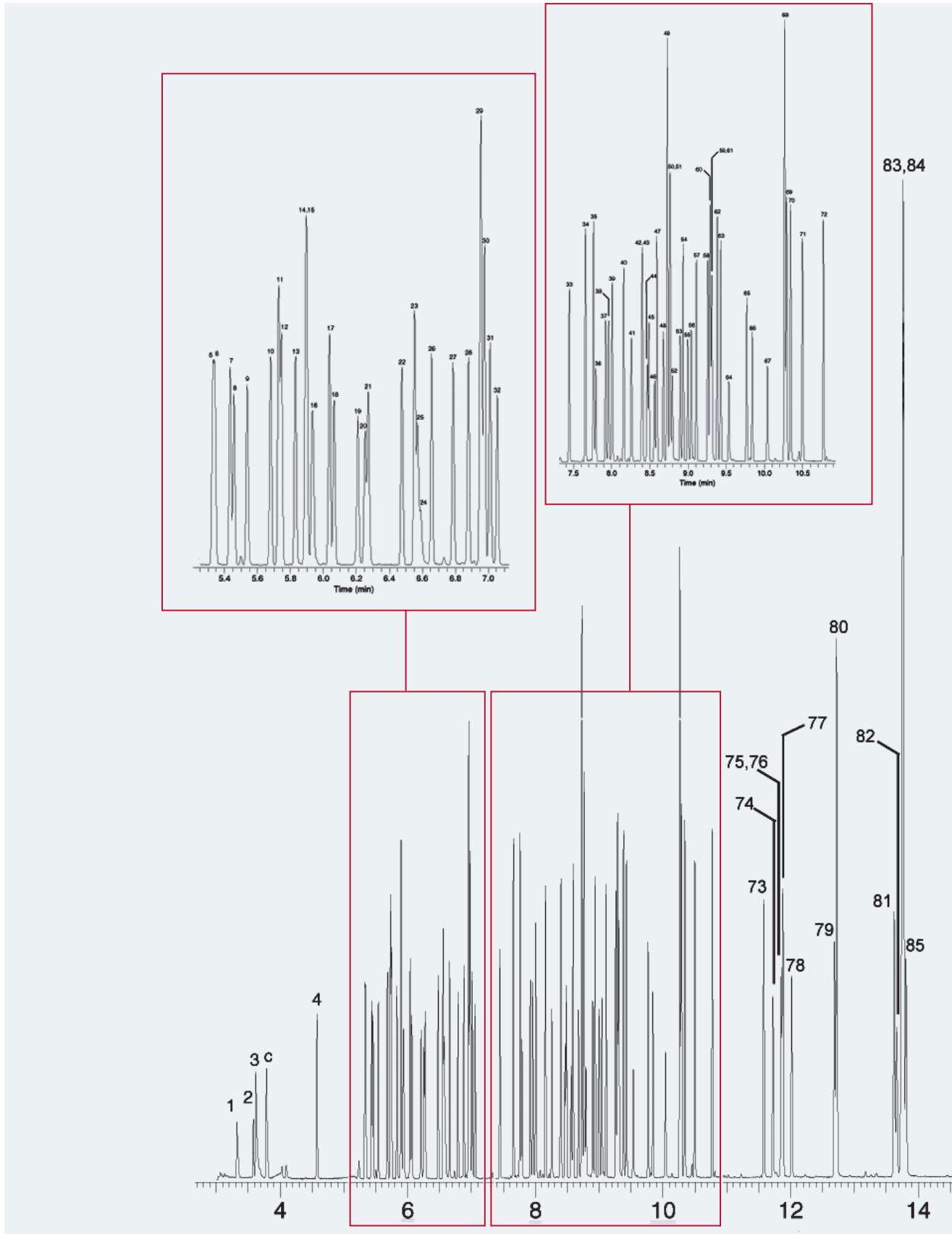


TKG 1072

TRB-5MS FURANES - FOOD SAMPLE



TKG 1073

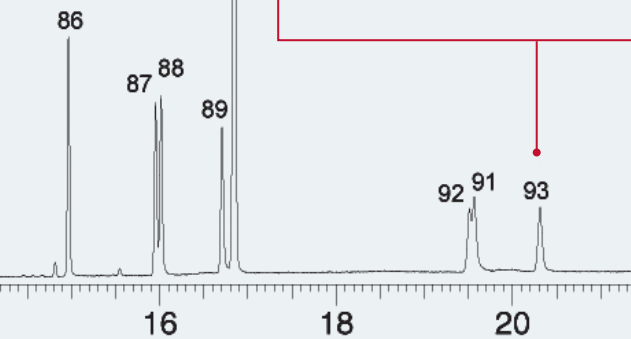
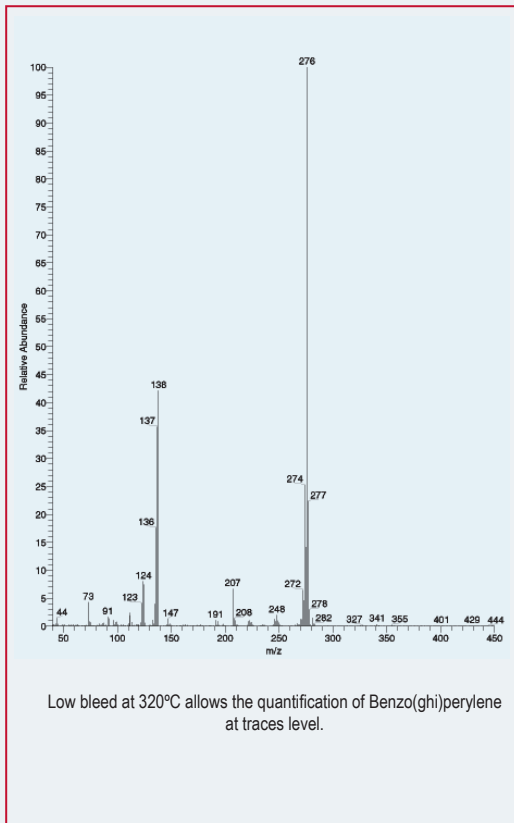


OPTIMUM RESOLUTION IN SEMIVOLATILE COMPOUNDS ANALYSIS

Column: **Meta.X5**, 30m x 0.25mm x 0.5µm (P/N: TR-820532)
 Inj.: Splitless w/Surge: pulse 25psi @ 0.30min, 40ml/min @ 0.25min
 Inj. temp.: 250°C
 Oven temp.: 35°C (1min) to 280°C @ 25°C/min to 320°C (5min) @ 6°C/min
 Carrier gas: Helium, constant flow @ 1.2ml/min
 Det.: MS
 Transfer line temp.: 280°C
 Ionization mode: EI
 Scan range: 35-550amu
 Sample: 1µl of 10ppm (IS 40ppm) Mix US EPA Method 8270
 Liner: 4mm Drilled Unliner (hole near bottom)

Peak Name

- | | |
|------------------------------------|---------------------------------|
| 1. 1,4-dioxane | 47. acenaphthylene |
| 2. N-nitrosodimethylamine | 48. 3-nitroaniline |
| 3. pyridine | 49. acenaphthene-d10 |
| 8. c. toluene | 50. 2,4-dinitrophenol |
| 4. 2-fluorophenol | 51. acenaphthene |
| 5. phenol-d6 | 52. 4-nitrophenol |
| 6. phenol | 53. 2,4-dinitrotoluene |
| 7. aniline | 54. dibenzofuran |
| 8. bis(2-chloroethyl)ether | 55. 2,3,5,6-tetrachlorophenol |
| 9. 2-chlorophenol | 56. 2,3,4,6-tetrachlorophenol |
| 10. 1,3-dichlorobenzene | 57. diethyl phthalate |
| 11. 1,4-dichlorobenzene-d4 | 58. 4-chlorophenyl phenyl ether |
| 12. 1,4-dichlorobenzene | 59. 4-nitroaniline |
| 13. benzyl alcohol | 60. fluorene |
| 14. 2-methylphenol | 61. 4,6-dinitro-2-methylphenol |
| 15. 1,2-dichlorobenzene | 62. diphenylamine |
| 16. bis(2-chloroisopropyl)ether | 63. azobenzene |
| 17. 3-methylphenol/ 4-methylphenol | 64. 2,4,6-tribromophenol |
| 18. N-nitroso-di-n-propylamine | 65. 4-bromophenyl phenyl ether |
| 19. Hexachloroethane | 66. hexachlorobenzene |
| 20. nitrobenzene-d5 | 67. pentachlorophenol |
| 21. nitrobenzene | 68. phenanthrene-d10 |
| 22. isophorone | 69. phenanthrene |
| 23. 2,4-dimethylphenol | 70. anthracene |
| 24. Benzoic acid | 71. carbazole |
| 25. 2-nitrophenol | 72. di-n-butyl phthalate |
| 26. bis(2-chloroethoxy)methane | 73. fluoranthene |
| 27. 2,4-dichlorophenol | 74. benzidine |
| 28. 1,2,4-trichlorobenzene | 75. pyrene-d10 |
| 29. naphthalene-d8 | 76. 3,3'-dimethylbenzidine |
| 30. naphthalene | 77. pyrene |
| 31. 4-chloroaniline | 78. p-terphenyl-d14 |
| 32. hexachlorobutadiene | 79. benzyl butyl phthalate |
| 33. 4-chloro-3-methylphenol | 80. bis(2-ethylhexyl)adipate |
| 34. 2-methylnaphthalene | 81. bis(2-ethylhexyl)phthalate |
| 35. 1-methylnaphthalene | 82. 3,3'-dichlorobenzidine |
| 36. hexachlorocyclopentadiene | 83. benzo(a)anthracene |
| 37. 2,4,6-trichlorophenol | 84. chrysene-d12 |
| 38. 2,4,5-trichlorophenol | 85. chrysene |
| 39. 2-fluorobiphenyl | 86. di-n-octyl phthalate |
| 40. 2-chloronaphthalene | 87. benzo(b)fluoranthene |
| 41. 2-nitroaniline | 88. benzo(k)fluoranthene |
| 42. 1,4-dinitrobenzene | 89. benzo(a)pyrene |
| 43. dimethyl phthalate | 90. perylene-d12 |
| 44. 1,3-dinitrobenzene | 91. dibenzo(a,h)anthracene |
| 45. 2,6-dinitrotoluene | 92. indeno(1,2,3-cd)pyrene |
| 46. 1,2-dinitrobenzene | 93. benzo(ghi)perylene |



TKG 1258

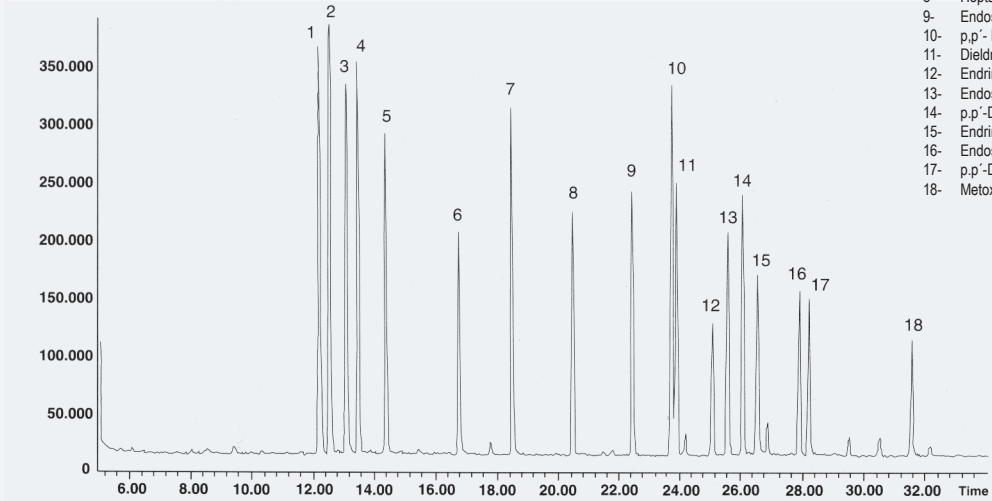
PESTICIDES ANALYSIS

Column: **Meta X5 P/N TR-820232**
 Dimensions: 30m x 0.25mm x 0.25 µm
 Injection: 1.0 µl standard, 10 ppm in Isooctane, splitless, 250°C
 Carrier gas: He, constant pressure, 9 psi (62 kPa)
 Oven program: 100°C (3,1min.) to 170°C @ 50°C/min. to 300°C(5,6min.) @ 5°C/min.
 Detector: MSD @ 280°C, scan 50-500 amu

Peak Name

- 1- α-Hexachlorocyclohexane
- 2- Hexachlorobenzene
- 3- γ-Hexachlorobenzene
- 4- β-Hexachlorocyclohexane
- 5- Heptachlor
- 6- δ-Hexachlorocyclohexane
- 7- Aldrin
- 8- Heptachlor epoxide
- 9- Endosulfan I
- 10- p,p'- DDE
- 11- Dieldrin
- 12- Endrin
- 13- Endosulfan II
- 14- p,p'-DDD
- 15- Endrin Aldehyde
- 16- Endosulfan sulfate
- 17- p,p'-DDT
- 18- Metoxychlor

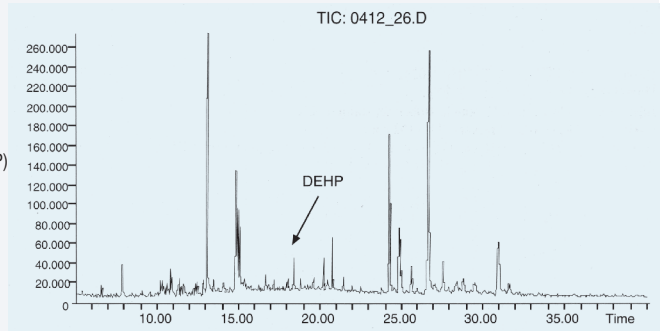
Chromatogram supplied by J. Diaz from Chromatography Department, IQS.



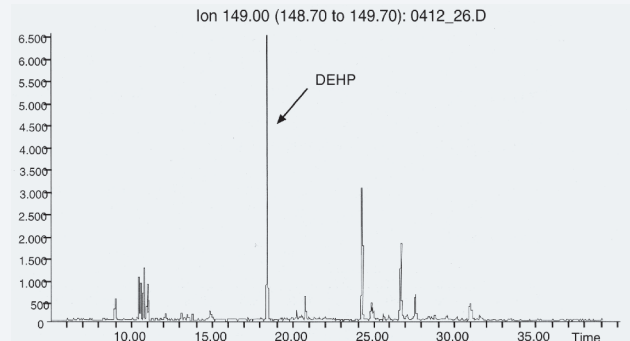
TKG 1078

PURIFIER SLUDGE ANALYSIS

Column: **Meta X5 P/N TR-820232**
 Dimensions: 30m x 0.25mm x 0.25 µm
 Injection: 2.0 µl standard (split 1:50), 280°C
 Carrier gas: He, 9 psi (62 kPa)
 Oven temperature: 120°C (1min.) to 300°C (21min.) @ 10°C/min.
 Detector: MS, full scan 50-550 amu, 280°C
 Sample: Urban purifier sludge (250ppm di-(2-ethylhexyl) phthalate, DEHP)



Chromatogram from B. Bagó, J. Diaz. Chromatography Dep. IQS.



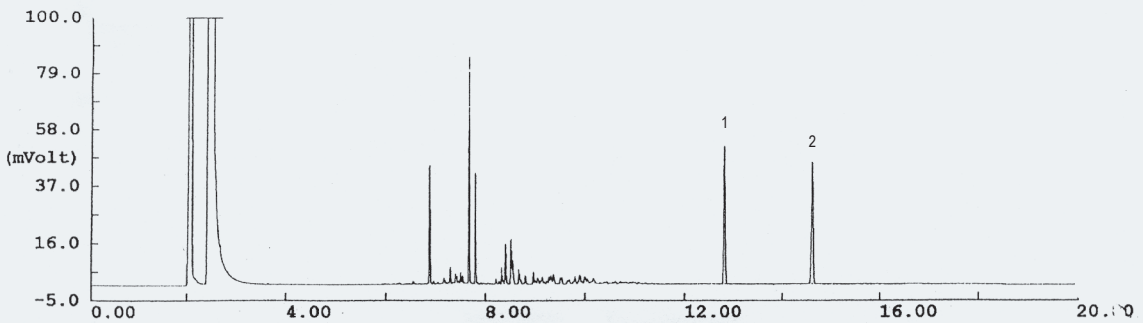
TKG 1080- TKG 1081

SEPARATION OF PESTICIDES

Column: **Meta .X5**, P/N TR-820232
 Dimensions: 30m x 0.25mm x 0.25 µm
 Injection: 1 µL standard (600 mg/L), split 1:20, 200°C
 Carrier gas: He, 1mL/min
 Oven program: 90°C(1min) @ 20°C/min to 200°C @ 3°C/min to 220°C
 Detector: ECD, 250°C

Chromatogram provided by AINIA

Peak Name	RT (min)
1 Nonadecane (Internal Standard)	12.79
2 Chlorpiryphos	14.59



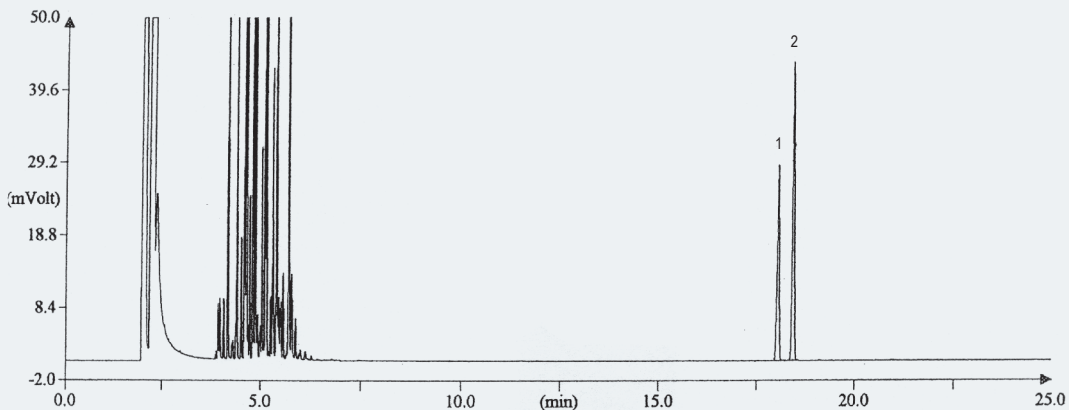
TKG 1084

SEPARATION OF PESTICIDES

Column: **Meta .X5**, P/N TR-820232
 Dimensions: 30m x 0.25mm x 0.25 µm
 Injection: 1 µL standard (717 mg/L), split 1:20, 200°C
 Carrier gas: He, 1mL/min
 Oven program: 70°C(1min) @ 20°C/min to 150°C @ 3°C/min to 200°C
 Detector: ECD, 250°C

Chromatogram provided by AINIA

Peak Name	RT (min)
1 Methyl chlorpiryphos	18.07
2 Nonadecane (Internal Standard)	18.45



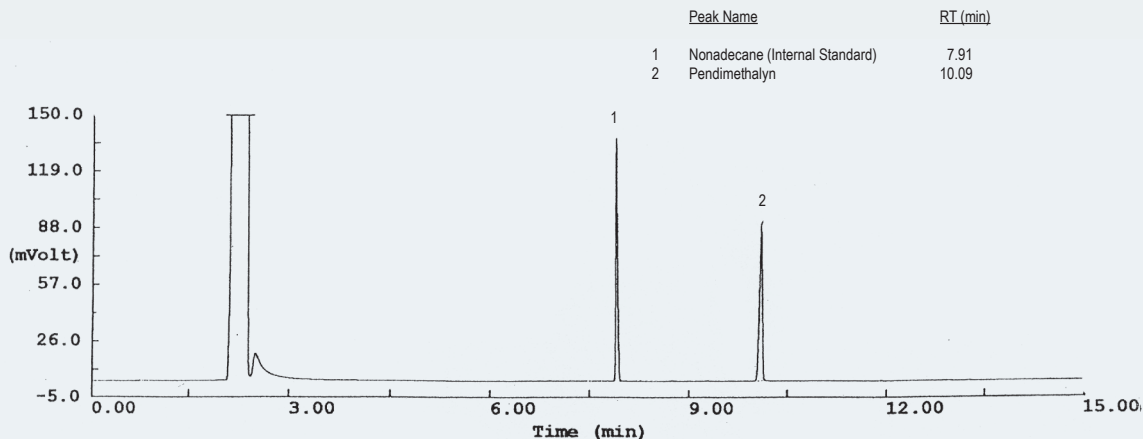
TKG 1085

SEPARATION OF PESTICIDES

Column: **Meta .X5**, P/N TR-820232
 Dimensions: 30m x 0.25mm x 0.25 μ m
 Injection: 1 μ L standard (440 mg/L), split 1:20, 200°C
 Carrier gas: He, 1mL/min
 Oven program: 70°C(1min) @ 20°C/min to 150°C @ 3°C/min to 200°C
 Detector: ECD, 250°C

Chromatogram provided by AINIA

TKG 1258



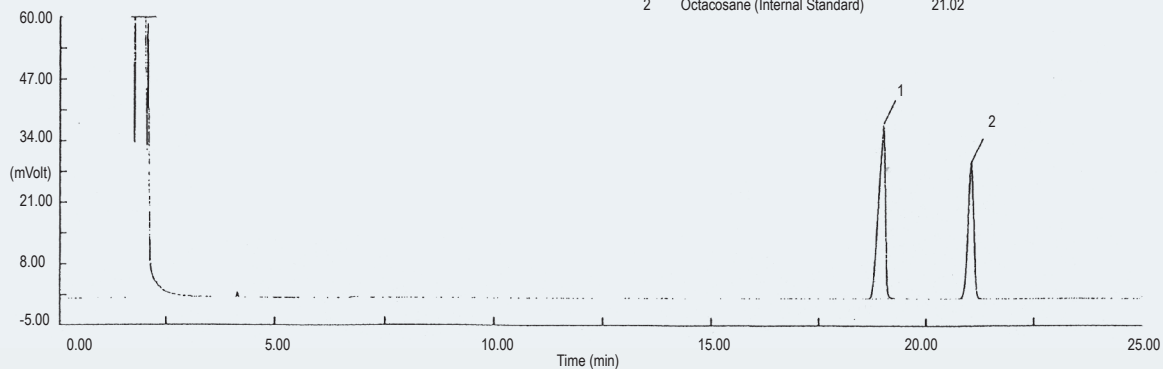
TKG 1086

SEPARATION OF PESTICIDES

Column: **Meta .X5**, P/N TR-820232
 Dimensions: 30m x 0.25mm x 0.25 μ m
 Injection: 1 μ L standard (1950 mg/L), split 1:20, 200°C
 Carrier gas: He, 1mL/min
 Oven program: 70°C(1min) @ 20°C/min to 150°C @ 3°C/min to 200°C
 Detector: ECD, 250°C

Chromatogram provided by AINIA

Peak Name	RT (min)
1 Procolaz	18.99
2 Octacosane (Internal Standard)	21.02



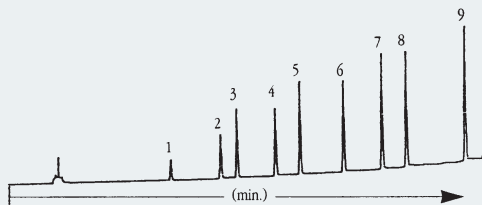
TKG 1087

FREE ACIDS IN WATER

Column: **TRB-FFAP**, P/N TR-151035
 Dimensions: 30m x 0.53mm x 1.0 µm
 Injection: 1 µL, split
 Carrier gas: He, 4 psi (27.56 KPa)
 Oven temperature: 120°C @ 4°C/min to 220°C
 Detector: FID, 275°C

Peak Name

- 1- Acetic acid
- 2- Propionic acid
- 3- Isobutyric acid
- 4- Butyric acid
- 5- Isovaleric acid
- 6- Valeric acid
- 7- Isocaproic acid
- 8- Caproic acid
- 9- Heptanoic acid



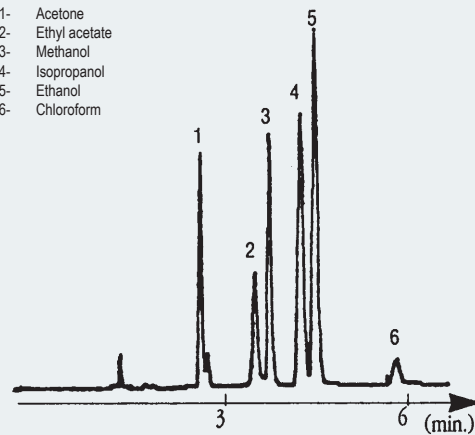
TKG 1148

SOLVENTS IN WATER (100 ppm)

Column: **TRB-WAX**, P/N TR-142065
 Dimensions: 60m x 0.53mm x 2.0 µm
 Injection: 1 µL, split
 Carrier gas: He, 14 psi (96.46 KPa)
 Oven temperature: 60°C (Isothermal)
 Detector: FID, 280°C

Peak Name

- 1- Acetone
- 2- Ethyl acetate
- 3- Methanol
- 4- Isopropanol
- 5- Ethanol
- 6- Chloroform



TKG 1158

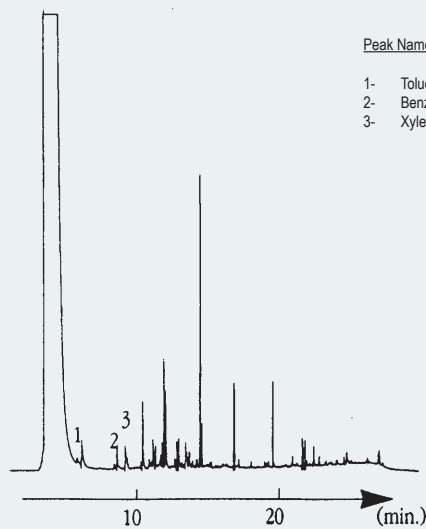
ANALYSIS OF FIRE RESIDUES (PYROLYSIS)

Column: **TRB-5**, P/N TR-120262
 Dimensions: 60m x 0.25mm x 0.25 µm
 Injection: 1 µL, splitless
 Carrier gas: He, 1.8 mL/min
 Oven temperature: 150°C @ 2°C/min to 225°C
 Detector: FID, 300°C

*Chromatogram provided by Montse Elias and Jordi Codina
 from Laboratori General d'Assaigs i Investigacions*

Peak Name

- 1- Toluene
- 2- Benzene
- 3- Xylene

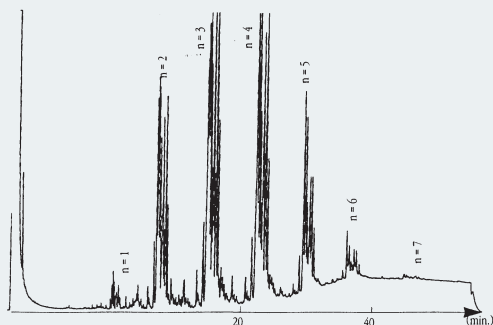


TKG 1150

ANALYSIS OF NONYLPHENOLS

Column: **TRB-5**, P/N TR-120262
 Dimensions: 30m x 0.25mm x 0.25 µm
 Injection: 1 µL, split
 Carrier gas: H₂, 50 cm/s (110°C)
 Oven temperature: 110°C @ 20°C/min to 220°C(1min) @ 4°C/min to 300°C
 Detector: FID, 310°C

Chromatogram provided by Dr. Caixach from Laboratori Espectrometria Masses, CSIC, Barcelona.

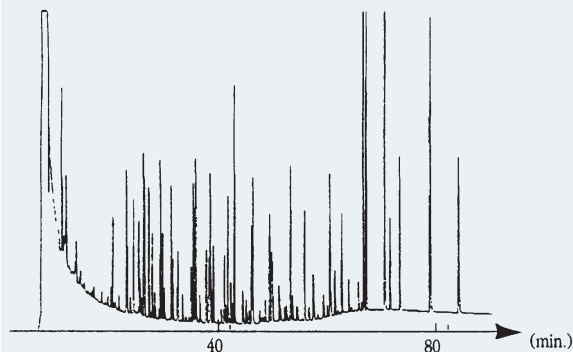


TKG 1151

ANALYSIS OF AROCLORS

Column: **TRB-5**, P/N TR-122168
 Dimensions: 60m x 0.22mm x 0.20 µm
 Injection: splitless
 Carrier gas: H₂, 150 KPa
 Oven temperature: 80°C(3,1min) @ 50°C/min to 190°C(5min) @ 1°C/min to 230°C(4min) @ 4°C/min to 260°C
 Detector: ECD, 350°C

Chromatogram provided by C. Rodríguez and L. Comellas from Institut Químic de Sarrià, Barcelona.



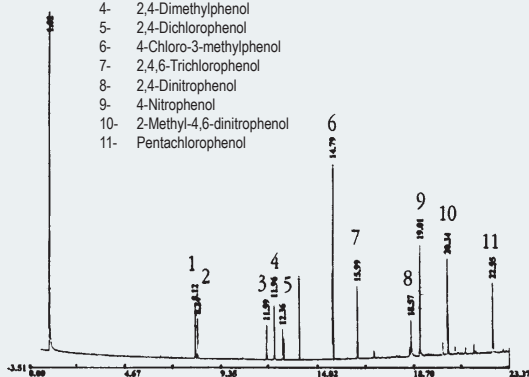
TKG 1152

PHENOLS EPA 604

Column: **TRB-5**, P/N TR-120232
 Dimensions: 30m x 0.25mm x 0.25 µm
 Injection: 1 µL, split, 2 to 6 ng/comp, 250°C
 Carrier gas: H₂, 12 psi (82.68 KPa)
 Oven temperature: 80°C(4min) @ 8°C/min to 250°C
 Detector: FID, 280°C

Peak Name

- 1- Phenol
- 2- Chlorophenol
- 3- 2-Nitrophenol
- 4- 2,4-Dimethylphenol
- 5- 2,4-Dichlorophenol
- 6- 4-Chloro-3-methylphenol
- 7- 2,4,6-Trichlorophenol
- 8- 2,4-Dinitrophenol
- 9- 4-Nitrophenol
- 10- 2-Methyl-4,6-dinitrophenol
- 11- Pentachlorophenol



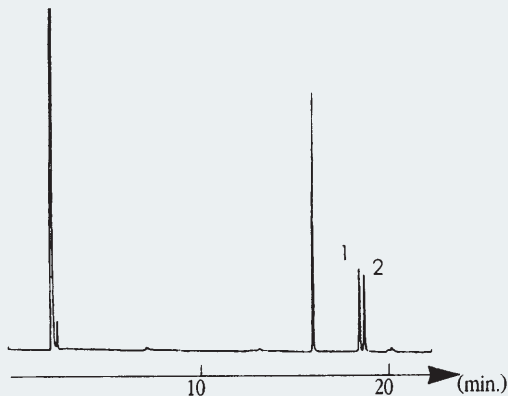
TKG 1153

ANALYSIS OF PESTICIDES

Column: **TRB-5**, P/N TR-120232
 Dimensions: 30m x 0.25mm x 0.25 µm
 Injection: 1 µL, split
 Carrier gas: He, 14 psi (96.46 KPa)
 Oven temperature: 150°C @ 5°C/min to 265°C
 Detector: FID, 325°C

Peak Name

- 1- Captan
- 2- Folpet

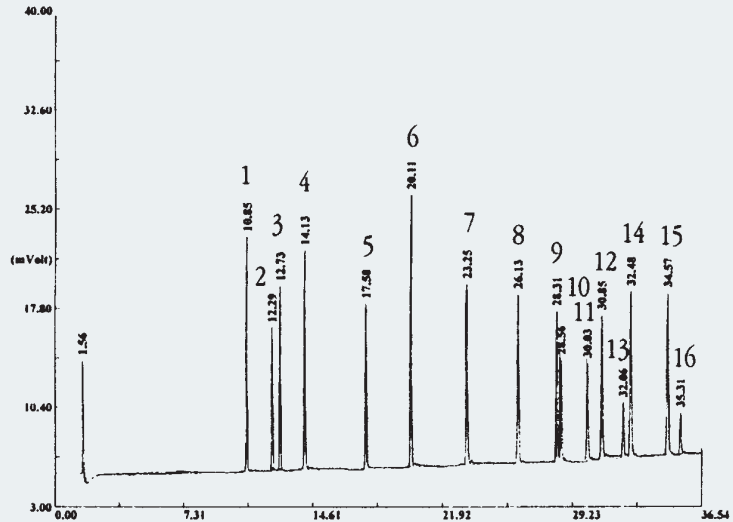


TKG 1155

ORGANOCHLORINATED PESTICIDES EPA 608

Column: **TRB-5**, P/N TR-120232
 Dimensions: 30m x 0.25mm x 0.25 µm
 Injection: 0.8 µL pesticides standard (40-400 pg), split, 230°C
 Carrier gas: H₂, 42 cm/s (150°C)
 Oven temperature: 150°C @ 2°C/min to 225°C
 Detector: FID, 300°C

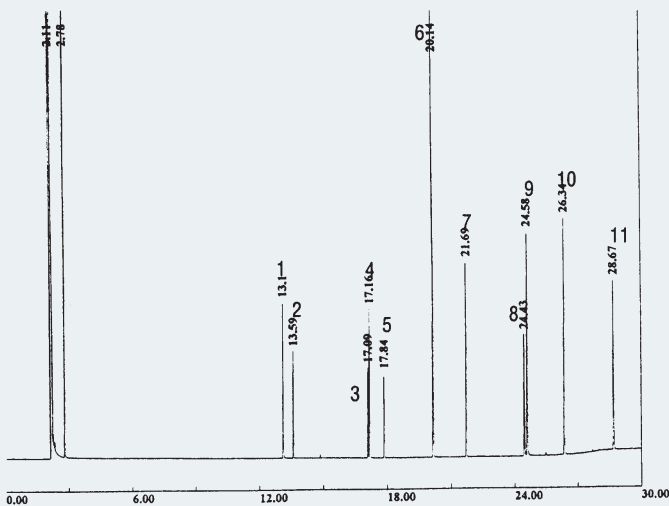
- Peak Name
- 1- α-BHC
 - 2- β-BHC
 - 3- γ-BHC
 - 4- δ-BHC
 - 5- heptachlor
 - 6- aldrin
 - 7- heptachlor epoxide
 - 8- endosulfan I
 - 9- dieldrin
 - 10- 4,4'-DDE
 - 11- endrin
 - 12- endosulfan II
 - 13- 4,4'-DDD
 - 14- endrin aldehyde
 - 15- endosulfan sulfate
 - 16- 4,4'-DDT



TKG 1149

SEPARATION OF PHENOLS EPA 604

Column: **TRB-5**, P/N TR-120469
 Dimensions: 60m x 0.20mm x 0.4 µm
 Injection: 1 µL standard phenols EPA 604, split
 Carrier gas: H₂, 38.5 psi (265.27 KPa)
 Oven temperature: 50°C(4min) @ 8°C/min to 250°C(5min)
 Detector: FID, 280°C



- Peak Name
- 1- Phenol
 - 2- 2-Chlorophenol
 - 3- 2-Nitrophenol
 - 4- 2,4-Dimethylphenol
 - 5- 2,4-Dichlorophenol
 - 6- 4-Chloro-3-methylphenol
 - 7- 2,4,6-Trichlorophenol
 - 8- 2,4-Dinitrophenol
 - 9- 4-Nitrophenol
 - 10- 2-Methyl-4,6-dinitrophenol
 - 11- Pentachlorophenol

TKG 1159

AROCLOR 1254 IN ISOCTANE (10 PPM)

Column: **TRB-5MS**, P/N TR-520262

Size: 60m x 0.25mm x 0.25µm

Injection: splitless 60s, 270°C

Sample: 1 µL Aroclors 1242, 1254 and 1260 standards in isooctane (10ppm), (1 ppm PCB30 and PCB209 internal standards)

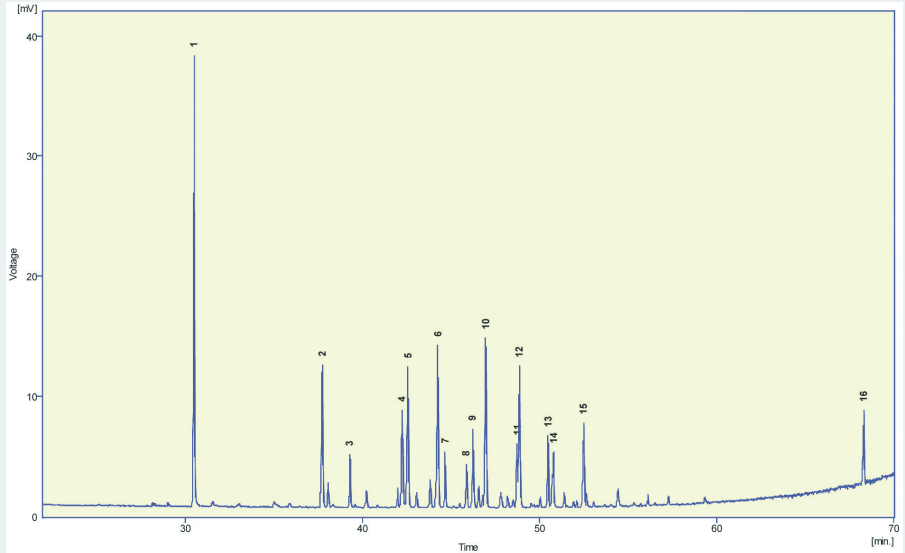
Carrier Gas: He, 1mL/min

Program temperature: 70°C (1min) @ 30°C/min to 130°C @ 2.5°C/min to 300°C (15min)

Detector: MS KONIK-TECH, Modo EI+ (70 eV), SIM m/z 186, 222, 292, 326, 360, 394, 430, 464, 498 (50 ms), Source 140°C, Interface 300°C, Photomultiplier 1000V.

Peak Name

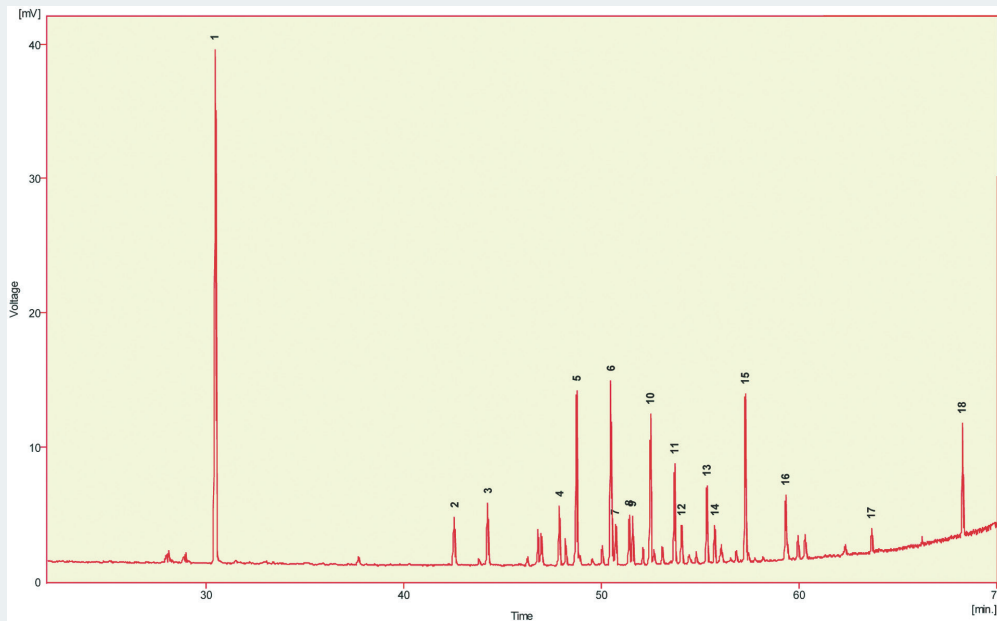
- 1 PCB30 (IS)
- 2 PCB52
- 3 PCB44
- 4 PCB70
- 5 PCB66 / PCB95
- 6 PCB101
- 7 PCB99
- 8 PCB97
- 9 PCB87
- 10 PCB110
- 11 PCB149
- 12 PCB118
- 13 PCB153
- 14 PCB105
- 15 PCB138
- 16 PCB209 (IS)



Chromatogram provided by José Antonio Muñoz from KONIK-TECH, S.A

TKG 1224

AROCLOR 1260 IN ISOCTANE (10 PPM)

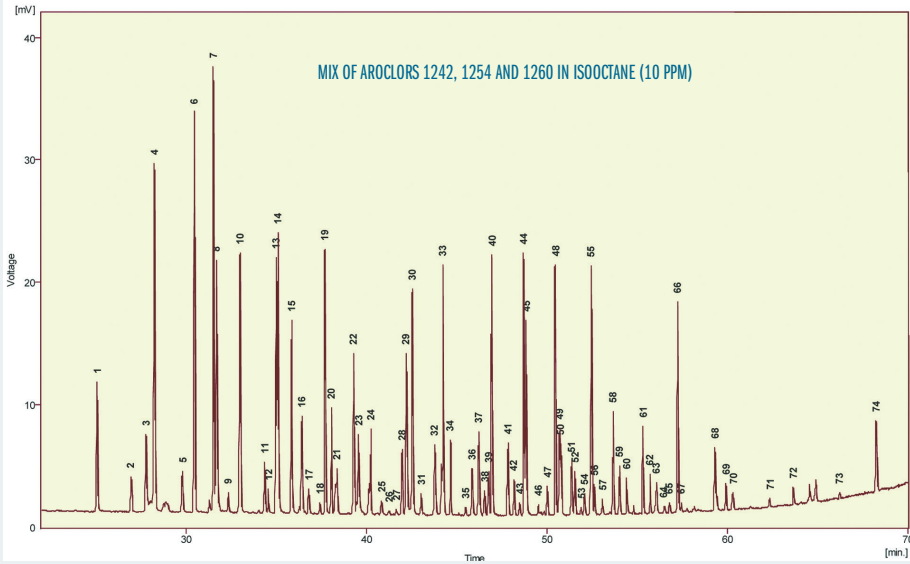


Peak Name

- 1 PCB30 (IS)
- 2 PCB95
- 3 PCB101
- 4 PCB151
- 5 PCB149
- 6 PCB153
- 7 PCB132
- 8 PCB141
- 9 PCB179
- 10 PCB138/PCB163
- 11 PCB187
- 12 PCB183
- 13 PCB174
- 14 PCB177
- 15 PCB180
- 16 PCB170
- 17 PCB194
- 18 PCB209 (IS)

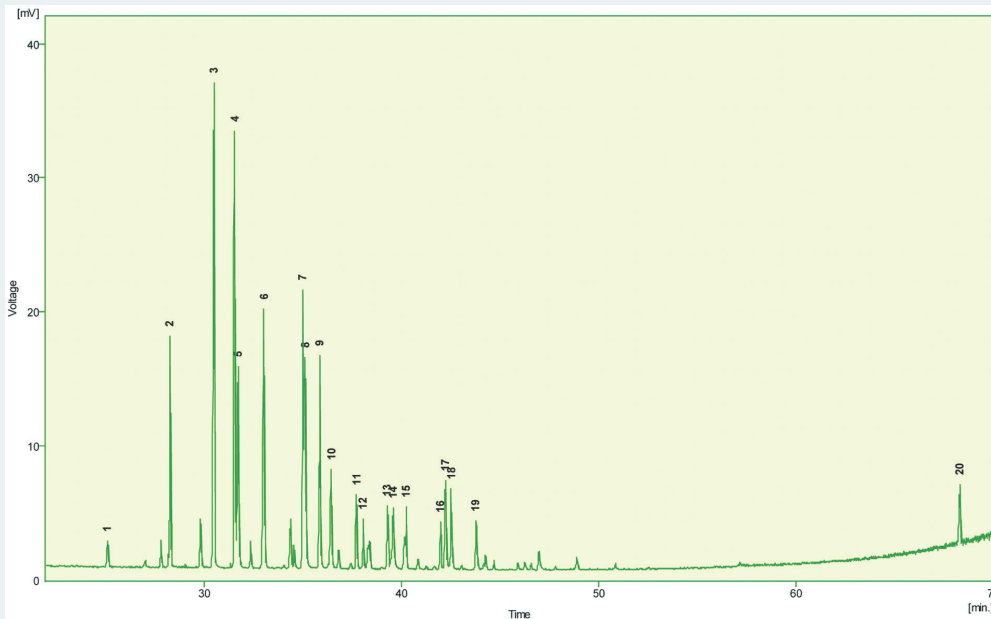
TKG 1225

ID	Compound	Rt (min)	ID	Compound	Rt (min)	ID	Compound	Rt (min)	ID	Compound	Rt (min)
1	PCB4 / PCB10	25,10	13	PCB31	35,01	25	PCB40	40,85	38	PCB85	46,58
2	PCB7 / PCB9	26,96	14	PCB28	35,12	26	PCB67 / PCB100	41,28	39	PCB136	46,79
3	PCB6	27,80	15	PCB20 / PCB33 / PCB53	35,85	27	PCB63	41,69	40	PCB110	46,98
4	PCB5 / PCB8	28,25	16	PCB22 / PCB51	36,45	28	PCB74	41,98	41	PCB151 / PCB82	47,88
5	PCB19	29,84	17	PCB45	36,84	29	PCB70	42,23	42	PCB135	48,19
6	PCB30 (IS)	30,48	18	PCB46	37,44	30	PCB66 / PCB95	42,57	43	PCB107	48,51
7	PCB18	31,55	19	PCB52 / PCB69	37,73	32	PCB56 / PCB60	43,79	44	PCB149 / PCB123	48,74
8	PCB15 / PCB17	31,71	20	PCB49	38,08	33	PCB101 / PCB90	44,26	45	PCB118	48,87
9	PCB24 / PCB27	32,36	21	PCB47 / PCB48 / PCB75	38,39	34	PCB99	44,67	46	PCB134	49,52
10	PCB16 / PCB32	33,02	22	PCB44	39,30	35	PCB83	45,50	47	PCB146	50,05
11	PCB26	34,37	23	PCB37 / PCB42 / PCB59	39,58	36	PCB97	45,86	48	PCB153	50,50
12	PCB25	34,58	24	PCB41 / PCB64	40,25	37	PCB87 / PCB115	46,24	49	PCB132	50,71
									50	PCB105	50,79
									51	PCB141	51,40
									52	PCB179	51,57
									53	PCB130	51,93
									54	PCB137 / PCB176	52,08
									55	PCB138 / PCB160 / PCB163	52,48
									56	PCB158	52,67
									57	PCB129 / PCB178	53,11
									58	PCB187	53,69
									59	PCB183	54,05
									60	PCB128	54,43
									61	PCB174	55,35
									62	PCB177	55,73
									63	PCB171 / PCB156	56,07
									64	PCB201 / PCB157 / PCB173	56,51
									65	PCB172	56,80
									66	PCB180	57,27
									67	PCB193	57,47
									68	PCB170 / PCB190	59,33
									69	PCB199	59,94
									70	PCB196 / PCB203	60,34
									71	PCB195 / PCB208	62,38
									72	PCB194	63,68
									73	PCB206	66,23
									74	PCB209 (IS)	68,25



TKG 1226

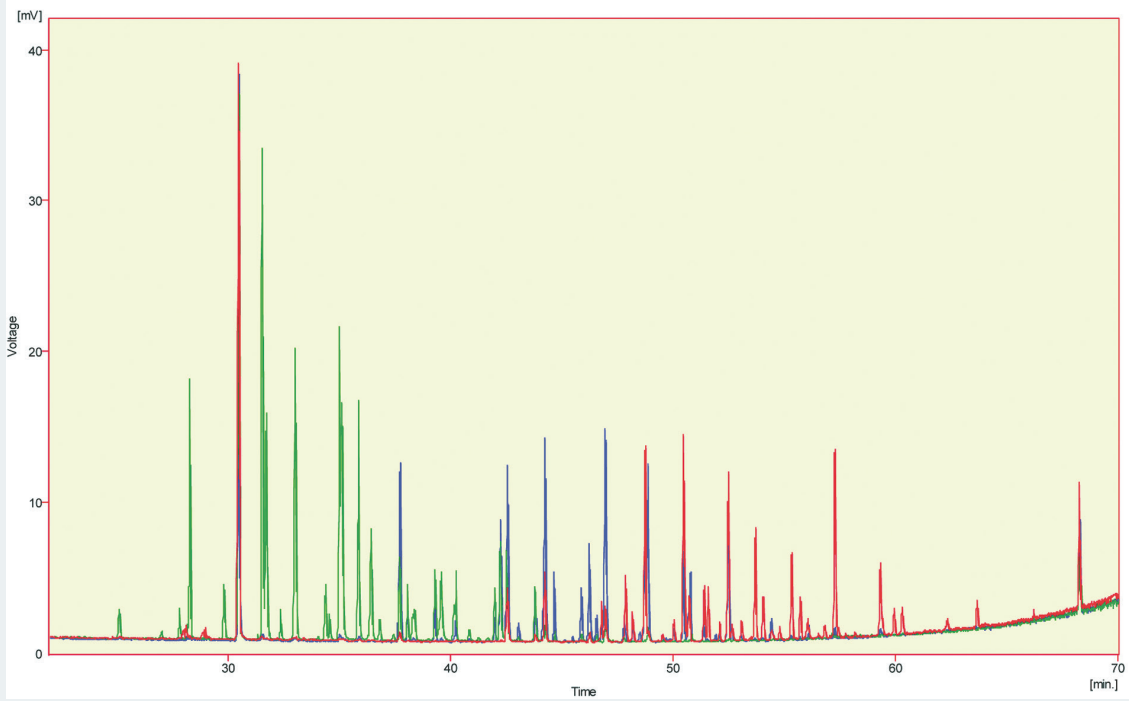
AROCLOR 1242 IN ISOCTANE (10 PPM)



Peak Name	ID	Compound
1	PCB4	
2	PCB8	
3	PCB30 (IS)	
4	PCB18	
5	PCB15/PCB17	
6	PCB16/PCB32	
7	PCB31	
8	PCB28	
9	PCB33	
10	PCB22	
11	PCB52	
12	PCB49	
13	PCB44	
14	PCB37/PCB42/PCB59	
15	PCB41/PCB64	
16	PCB74	
17	PCB70	
18	PCB66	
19	PCB56/PCB60	
20	PCB209 (IS)	

TKG 1227

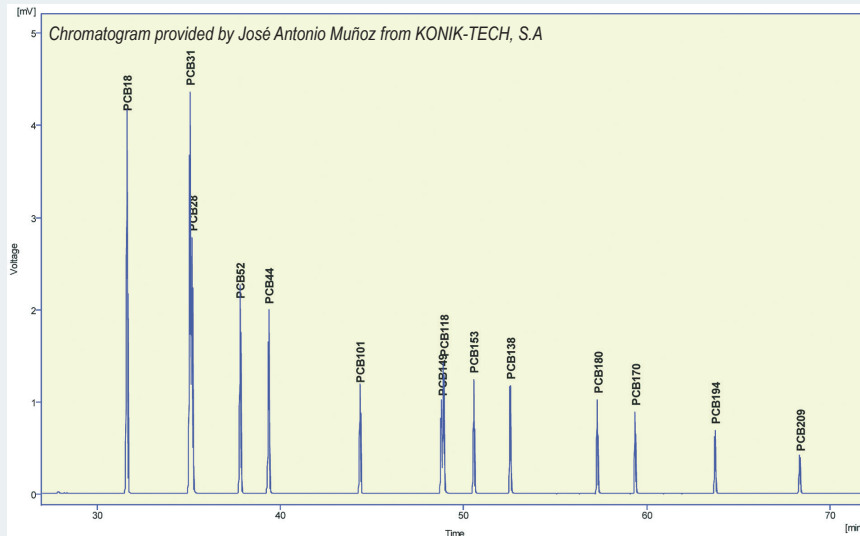
SUPERIMPOSED INDIVIDUAL AROCLORS 1242 (GREEN), 1254 (BLUE), 1260 (RED) IN ISOCTANE (10 PPM)



TKG 1223

PCBs

Column: **TRB-5MS**, P/N TR-520262
 Size: 60m x 0.25mm x 0.25µm
 Injection: 1 µL standard mixture of 14 PCBs in isoctane (2ppm), splitless 60s, 270°C
 Carrier Gas: He, 1mL/min
 Program temperature: 70°C (1min) @ 30°C/min a 130°C @ 2.5°C/min a 300°C (15min)
 Detector: MS KONIK-TECH, Mode EI+ (70 eV), SIM m/z 186, 222, 292, 326, 360, 394, 430, 464, 498 (50 ms),
 Source Temperature 140°C, Interface temperature 300°C, Photomultiplier 1000V.



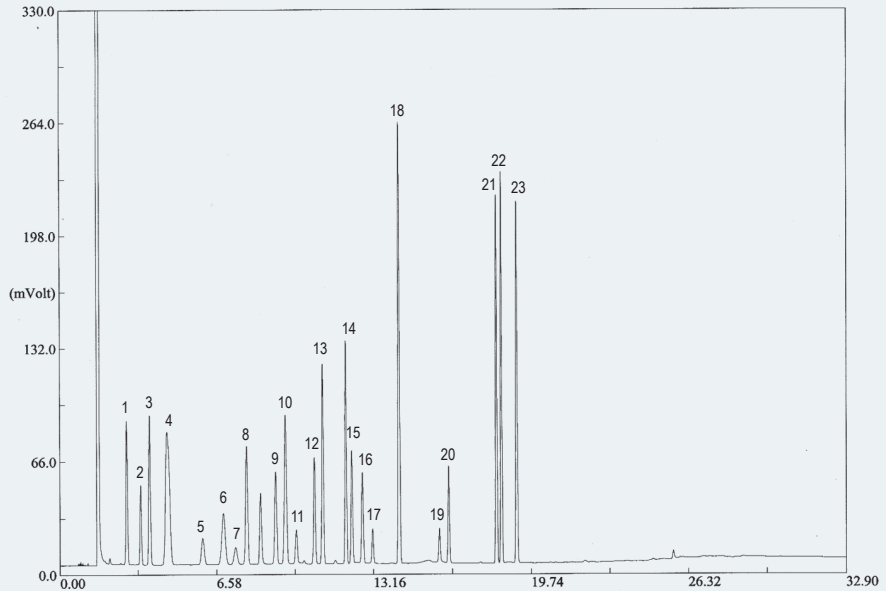
TKG 1222

EPA 601 PURGEABLE HALOCARBONS MIX

Column: **Meta. VOC**, P/N TR-943035
 Size: 30m x 0.53mm x 3.0µm
 Injection: 0.5µL EPA 601 purgeable halocarbons mix + 2-chloroethyl vinyl ether (2000 ng/µL), split 1:50, 280°C
 Carrier gas: He, constant flow 6 mL/min
 Oven Temperature: 40°C(6min) @ 8°C/min a 200°C(5min)
 Detector: FID, 280°C

Peak Name

- 1 1,1-Dichloroethylene
- 2 Methylene chloride
- 3 Trans-1,2-Dichloroethylene
- 4 1,1-Dichloroethane
- 5 Chloroform
- 6 1,1,1-Trichloroethane
- 7 Carbon tetrachloride
- 8 1,2-Dichloroethane
- 9 Trichloroethylene
- 10 1,2-Dichloropropane
- 11 Bromodichloromethane
- 12 2-Chloroethyl vinyl ether
- 13 cis-1,3- Dichloropropene
- 14 trans-1,3-Dichloropropene
- 15 1,1,2-Trichloroethane
- 16 Tetrachloroethylene
- 17 Dibromochloromethane
- 18 Chlorobenzene
- 19 Bromoform
- 20 1,1,2,2-Tetrachloroethane
- 21 1,3-Dichlorobenzene
- 22 1,4-Dichlorobenzene
- 23 1,2-Dichlorobenzene



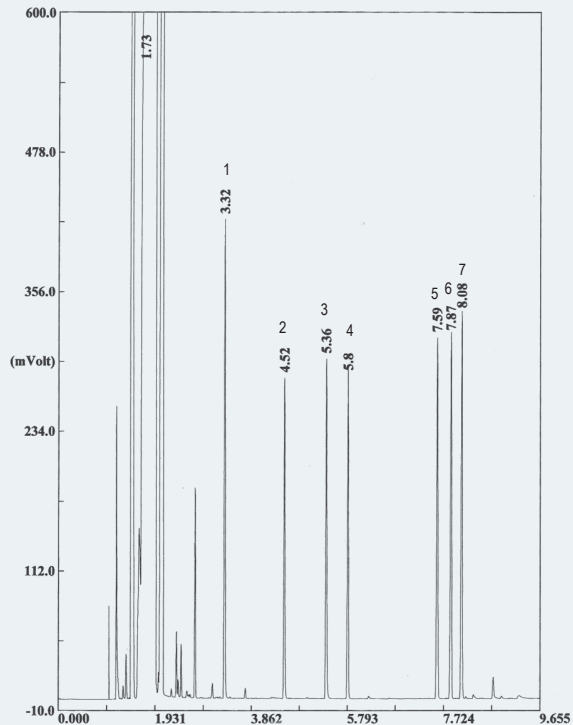
TKG 1205

ANALYSIS OF PYRIDINES

Column: **TRB-5A**, P/N TR-210533
 Size: 30m x 0.32mm x 0.5µm
 Injection: 1µL patrón, split 1:100 (50 ng/comp), 280°C
 Carrier gas: H₂, constant pressure 7 psi
 Oven temperature: 50°C(2min) @ 10°C/min to 180°C(2min)
 Detector: FID, 280°C

Peak Name

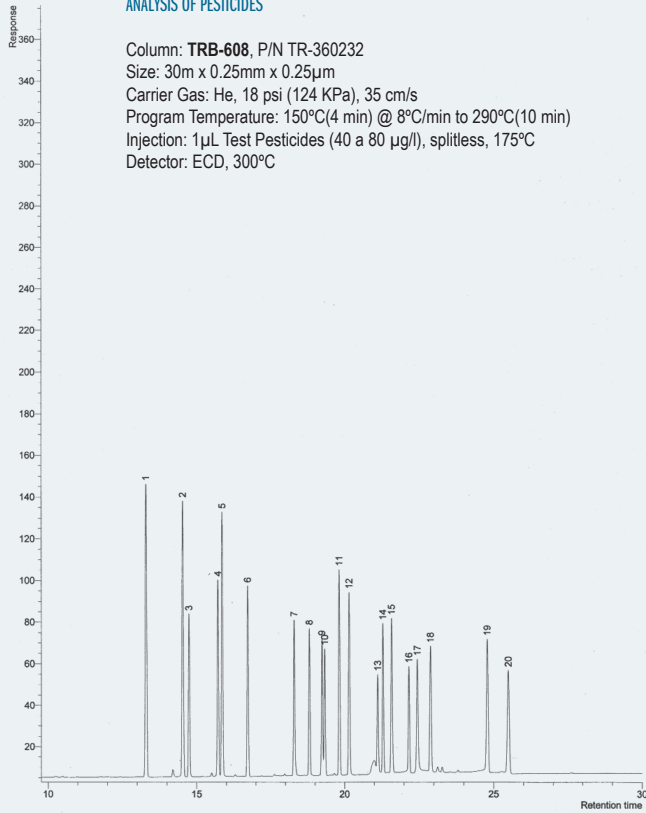
- 1 Pyridine
- 2 2-Picoline
- 3 3-Picoline
- 4 2,6-Lutidine
- 5 3,5-Lutidine
- 6 2,4,6-Collidine
- 7 3,4-Lutidine



TKG 1206

ANALYSIS OF PESTICIDES

Column: **TRB-608**, P/N TR-360232
 Size: 30m x 0.25mm x 0.25µm
 Carrier Gas: He, 18 psi (124 KPa), 35 cm/s
 Program Temperature: 150°C(4 min) @ 8°C/min to 290°C(10 min)
 Injection: 1µL Test Pesticides (40 a 80 µg/l), splitless, 175°C
 Detector: ECD, 300°C



Peak Name

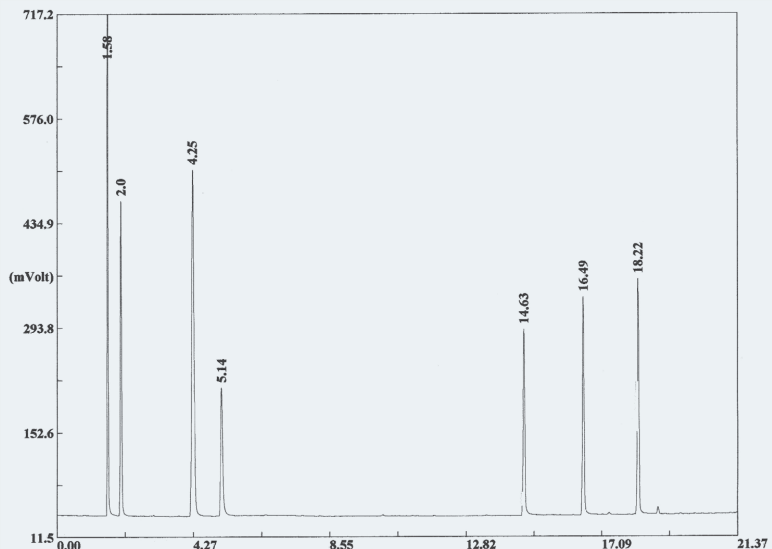
- 1 α-BHC
- 2 β-BHC
- 3 γ-BHC
- 4 Heptachlor
- 5 δ-BHC
- 6 Aldrin
- 7 Heptachlor epoxide
- 8 γ-Chlordane
- 9 α-Chlordane
- 10 Endosulfan I
- 11 p,p'-DDE
- 12 Dieldrin
- 13 Endrin
- 14 p,p'-DDD
- 15 Endosulfan II
- 16 p,p'-DDT
- 17 Endrin aldehyde
- 18 Endosulfan sulfate
- 19 Methoxychlor
- 20 Endrin Ketone

TKG 1211

AMINES

Column: **TRB-5A**, P/N TR-213035
 Size: 30m x 0.53mm x 3.0µm
 Injection: 1µL standard (wet needle), split 1:100 (50 ng/comp), 280°C
 Carrier Gas: H₂, constant pressure, 3 psi
 Program temperature: 35°C(3min) @ 10°C/min to 225°C(2min)
 Detector: FID, 300°C

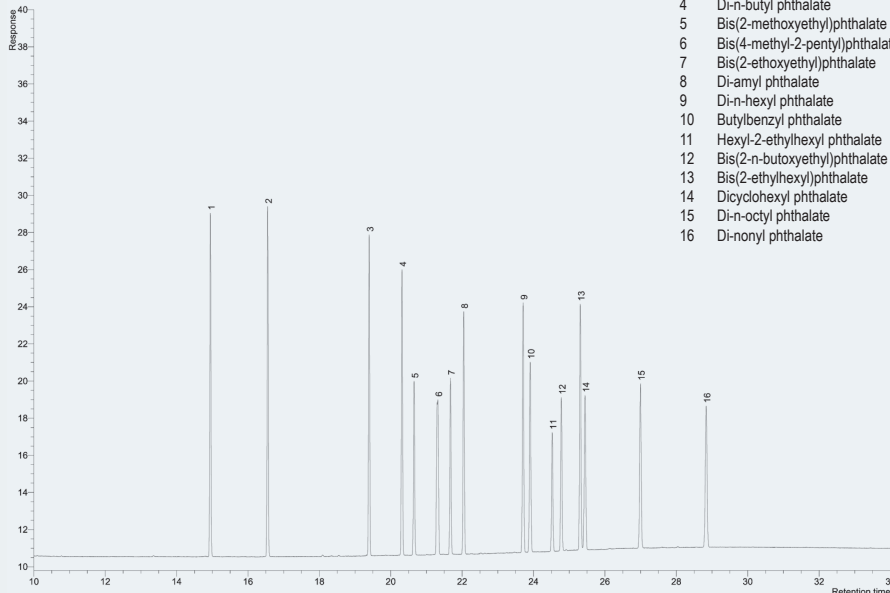
RT (min)	Peak Name
1.58	Ethyl amine
2.0	Isopropylamine
4.25	Isobutylamine
5.14	n-Butylamine
14.63	n-Octylamine
16.49	n-Nonylamine
18.22	n-Decylamine



TKG 1212

SEPARATION OF PHTHALATES

Column: **Meta.X5**, 30m x 0.25mm x 0.25µm (P/N: TR-820232)
 Carrier gas: Helium, 12psi, constant pressure mode
 Injection: 250°C, split ratio 35:1
 Oven temperature: 40°C (1min) to 325°C @ 12°C/min
 Detector: FID, 330°C
 Sample: 1µl Phthalate Ester Mix 1000µg/ml each compound

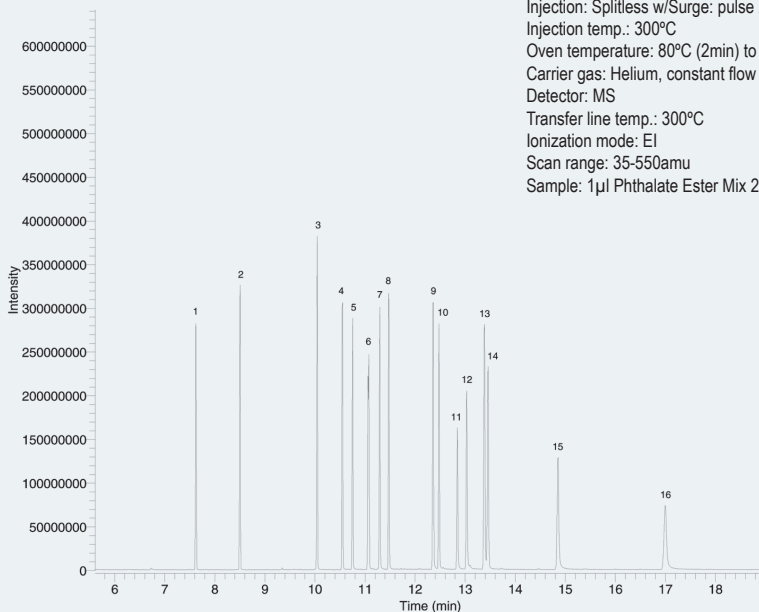


Peak Name
1 Dimethyl phthalate
2 Diethyl phthalate
3 Diisobutyl phthalate
4 Di-n-butyl phthalate
5 Bis(2-methoxyethyl)phthalate
6 Bis(4-methyl-2-pentyl)phthalate isomers
7 Bis(2-ethoxyethyl)phthalate
8 Di-amyl phthalate
9 Di-n-hexyl phthalate
10 Butylbenzyl phthalate
11 Hexyl-2-ethylhexyl phthalate
12 Bis(2-n-butoxyethyl)phthalate
13 Bis(2-ethylhexyl)phthalate
14 Dicyclohexyl phthalate
15 Di-n-octyl phthalate
16 Di-nonyl phthalate

TKG 1243

SEPARATION OF PHTHALATES

Column: **Meta.X5**, 30m x 0.25mm x 0.25µm (P/N: TR-820232)
 Injection: Splitless w/Surge: pulse 20psi @ 0.30min, 25ml/min @ 1min
 Injection temp.: 300°C
 Oven temperature: 80°C (2min) to 280°C (8min) @ 20°C/min
 Carrier gas: Helium, constant flow @ 1.5ml/min
 Detector: MS
 Transfer line temp.: 300°C
 Ionization mode: EI
 Scan range: 35-550amu
 Sample: 1µl Phthalate Ester Mix 20ppm each compound

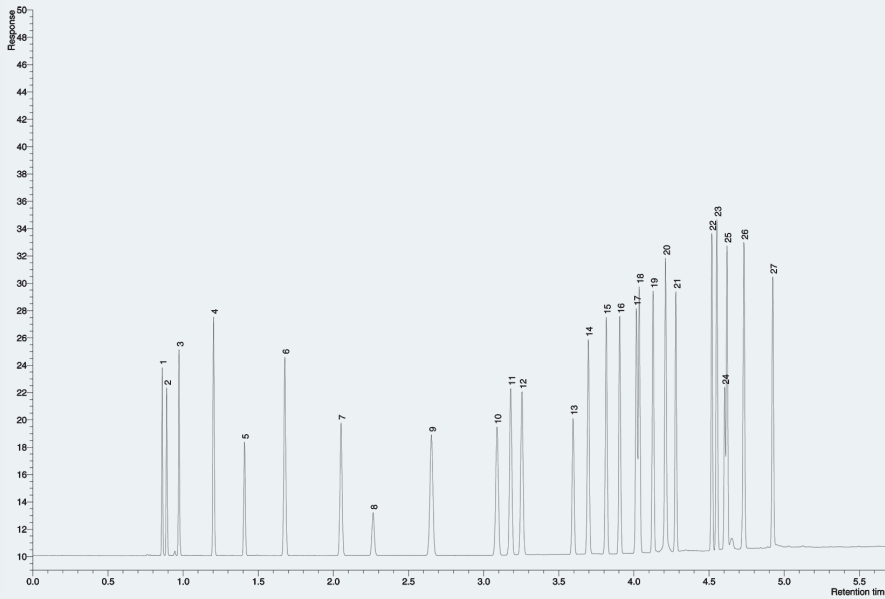


Peak Name
1 Dimethyl phthalate
2 Diethyl phthalate
3 Diisobutyl phthalate
4 Di-n-butyl phthalate
5 Bis(2-methoxyethyl)phthalate
6 Bis(4-methyl-2-pentyl)phthalate isomers
7 Bis(2-ethoxyethyl)phthalate
8 Di-amyl phthalate
9 Di-n-hexyl phthalate
10 Butylbenzyl phthalate
11 Hexyl-2-ethylhexyl phthalate
12 Bis(2-n-butoxyethyl)phthalate
13 Bis(2-ethylhexyl)phthalate
14 Dicyclohexyl phthalate
15 Di-n-octyl phthalate
16 Di-nonyl phthalate

TKG 1244

SEPARATION OF AROMATIC HYDROCARBONS

Column: **SupraWax-280**, 20m x 0.18mm x 0.18µm (P/N: TR-830984)
 Carrier gas: Helium, 33.1psi, constant pressure mode
 Injection: 250°C, split ratio 150:1
 Oven temperature: 60°C (3min) to 140°C (1min) @ 50°C/min
 Detector: FID, 250°C
 Sample: 25ng on-column each compound

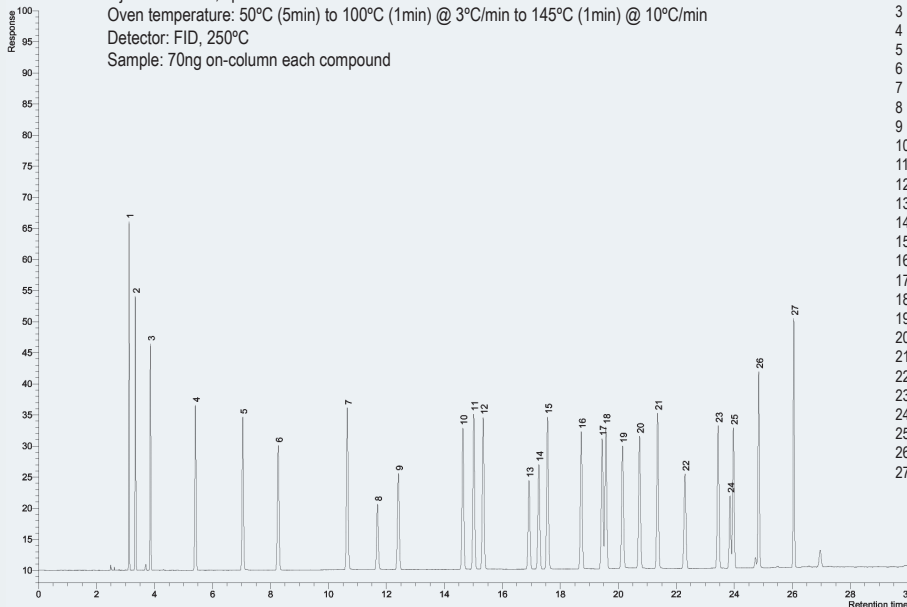


Peak Name
1 heptane
2 cyclohexane
3 octane
4 nonane
5 benzene
6 decane
7 toluene
8 1,4-dioxane
9 undecane
10 ethylbenzene
11 p-xylene
12 m-xylene
13 cumene
14 dodecane
15 o-xylene
16 propylbenzene
17 p-ethyltoluene
18 m-ethyltoluene
19 t-butylbenzene
20 s-butylbenzene
21 styrene
22 tridecane
23 diethylbenzeneisomer
24 diethylbenzeneisomer
25 n-butylbenzene
26 α-methylstyrene
27 phenylacetylene

TKG 1245

SEPARATION OF AROMATIC HYDROCARBONS

Column: **SupraWax-280**, 60m x 0.32mm x 0.5µm (P/N: TR-830563)
 Carrier gas: Helium, 25psi, constant pressure mode
 Injection: 250°C, split ratio 50:1
 Oven temperature: 50°C (5min) to 100°C (1min) @ 3°C/min to 145°C (1min) @ 10°C/min
 Detector: FID, 250°C
 Sample: 70ng on-column each compound

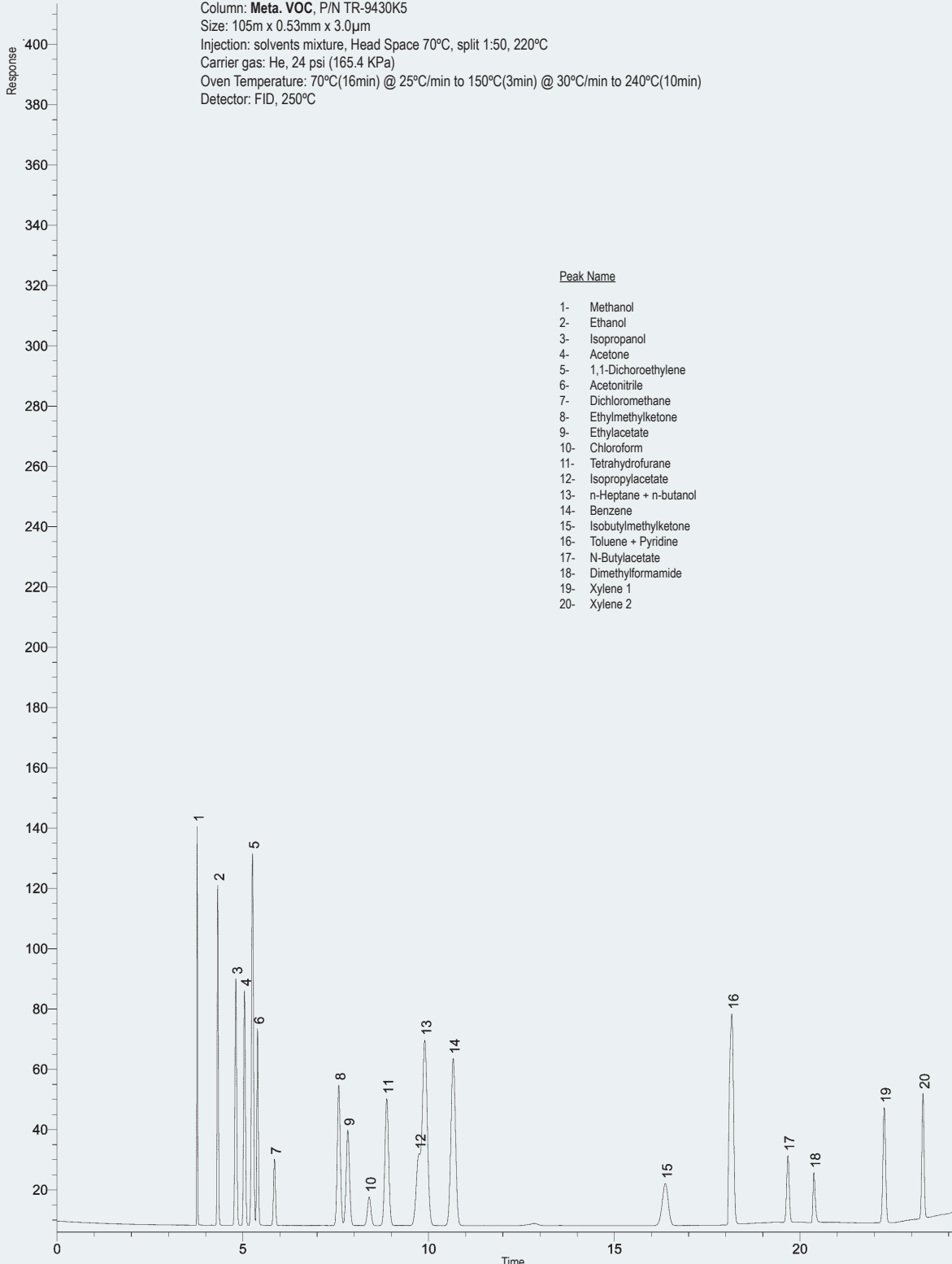


Peak Name
1 heptane
2 cyclohexane
3 octane
4 nonane
5 benzene
6 decane
7 toluene
8 1,4-dioxane
9 undecane
10 ethylbenzene
11 p-xylene
12 m-xylene
13 cumene
14 dodecane
15 o-xylene
16 propylbenzene
17 p-ethyltoluene
18 m-ethyltoluene
19 t-butylbenzene
20 s-butylbenzene
21 styrene
22 tridecane
23 diethylbenzeneisomer
24 diethylbenzeneisomer
25 n-butylbenzene
26 α-methylstyrene
27 phenylacetylene

TKG 1246

SEPARATION OF SOLVENTS

Column: **Meta. VOC**, P/N TR-9430K5
 Size: 105m x 0.53mm x 3.0µm
 Injection: solvents mixture, Head Space 70°C, split 1:50, 220°C
 Carrier gas: He, 24 psi (165.4 KPa)
 Oven Temperature: 70°C(16min) @ 25°C/min to 150°C(3min) @ 30°C/min to 240°C(10min)
 Detector: FID, 250°C

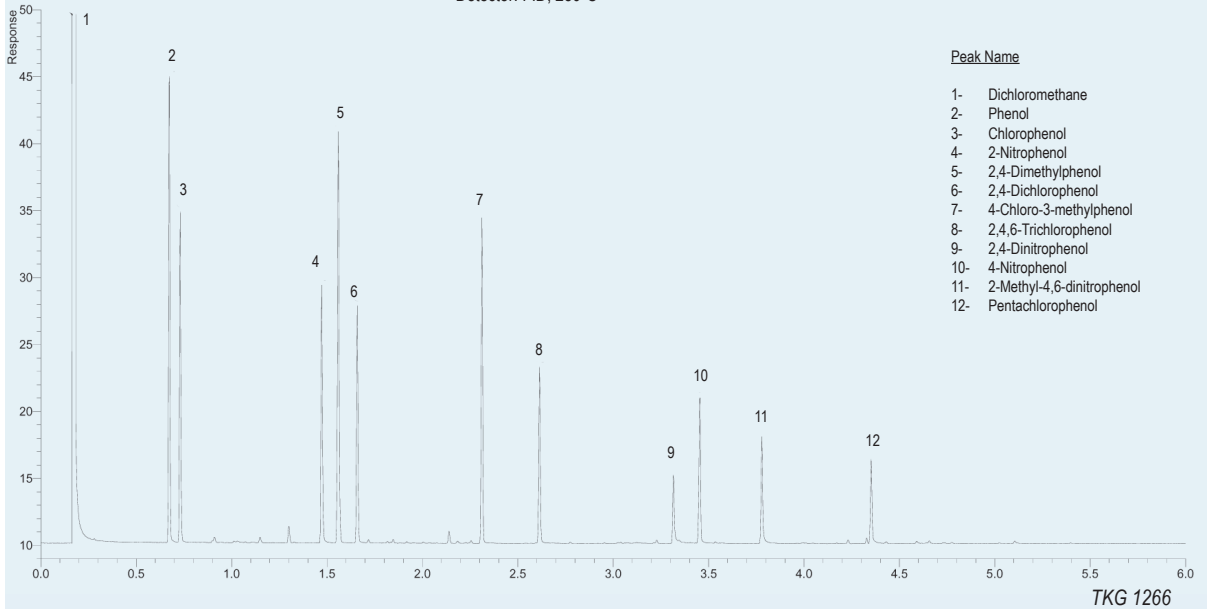


Peak Name
1- Methanol
2- Ethanol
3- Isopropanol
4- Acetone
5- 1,1-Dichloroethylene
6- Acetonitrile
7- Dichloromethane
8- Ethylmethylketone
9- Ethylacetate
10- Chloroform
11- Tetrahydrofurane
12- Isopropylacetate
13- n-Heptane + n-butanol
14- Benzene
15- Isobutylmethylketone
16- Toluene + Pyridine
17- N-Butylacetate
18- Dimethylformamide
19- Xylene 1
20- Xylene 2

TKG 1257

PHENOLS EPA 604

Column: **TRB-5MS**, P/N TR-520141
 Size: 10m x 0.10mm x 0.10µm
 Injection: split 1:300, 280°C
 Sample: 0.3µL Standard (500 pg/comp)
 Carrier Gas: H₂, 35 psi
 Program temperature: 80°C(1min) @ 30°C/min to 200°C(1min)
 Detector: FID, 280°C

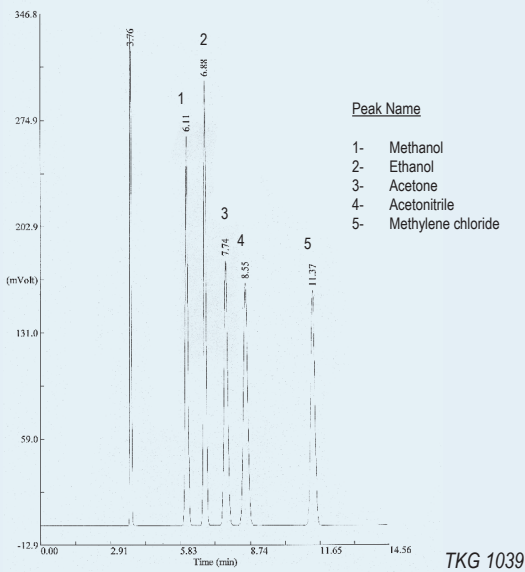


Peak Name

- 1- Dichloromethane
- 2- Phenol
- 3- Chlorophenol
- 4- 2-Nitrophenol
- 5- 2,4-Dimethylphenol
- 6- 2,4-Dichlorophenol
- 7- 4-Chloro-3-methylphenol
- 8- 2,4,6-Trichlorophenol
- 9- 2,4-Dinitrophenol
- 10- 4-Nitrophenol
- 11- 2-Methyl-4,6-dinitrophenol
- 12- Pentachlorophenol

SEPARATION OF SOLVENTS

Column: **TRB-1**, P/N TR-117065
 Dimensions: 60m x 0.53mm x 7.0 µm
 Injection: wet needle (solvent mixture), split 1:100, 260°C
 Carrier gas: He, constant pressure 6 psi (41.3 KPa).
 Oven program: 32°C (isothermal)
 Detector: FID, 260°C

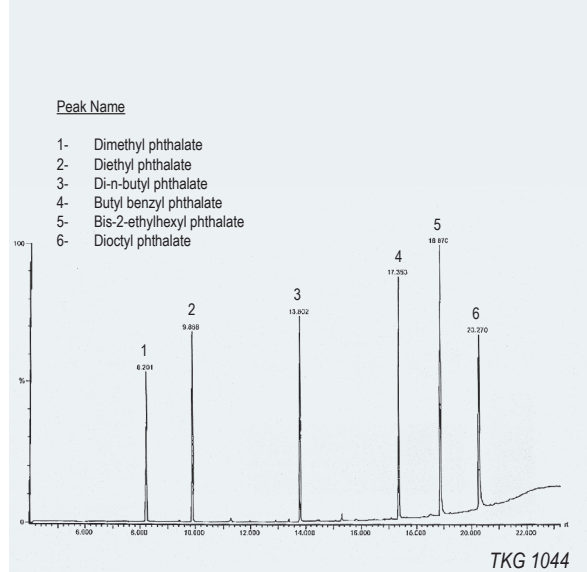


Peak Name

- 1- Methanol
- 2- Ethanol
- 3- Acetone
- 4- Acetonitrile
- 5- Methylene chloride

SEPARATION OF PAE (PHTHALATE ALKYL ESTER) MIX EPA

Column: **Meta. X5**, P/N TR-820232
 Dimensions: 30m x 0.25mm x 0.25 µm
 Injection: 1 µL standard (7.1ng/g in Hexane), 250°C
 Carrier gas: H₂, constant pressure 12 psi (82.7 KPa).
 Oven temperature: 100°C(1min) @ 10°C/min to 310°C(5min)
 Detector: FID, 310°C

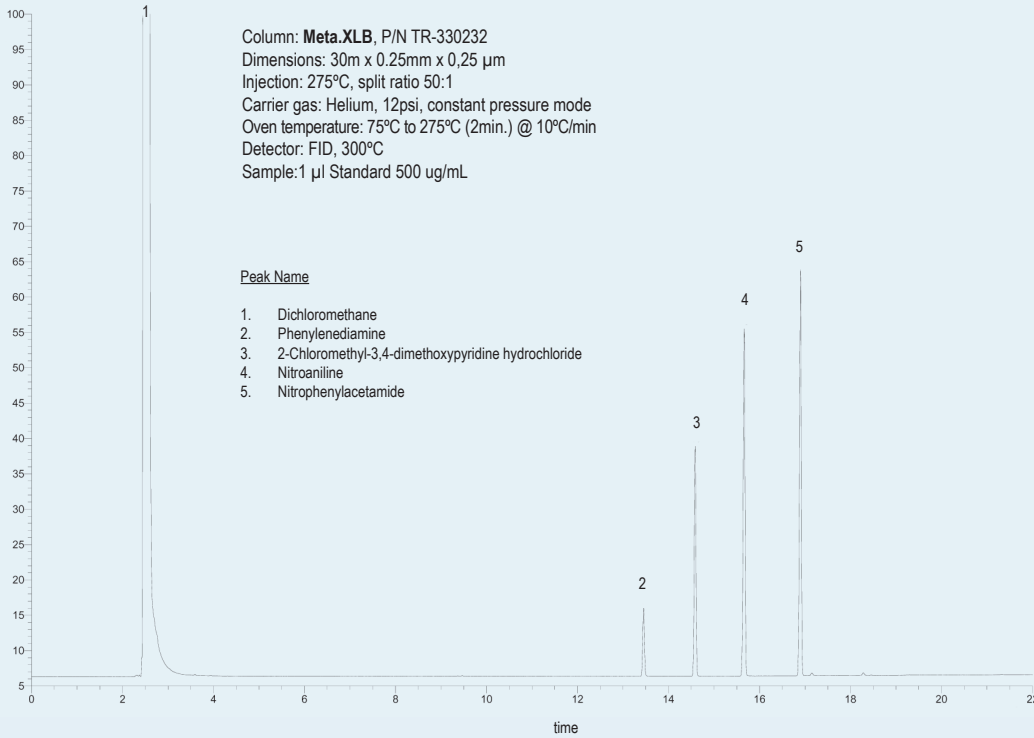


Peak Name

- 1- Dimethyl phthalate
- 2- Diethyl phthalate
- 3- Di-n-butyl phthalate
- 4- Butyl benzyl phthalate
- 5- Bis-2-ethylhexyl phthalate
- 6- Dioctyl phthalate

Aromatic Compounds

Column: **Meta.XLB**, P/N TR-330232
 Dimensions: 30m x 0.25mm x 0.25 µm
 Injection: 275°C, split ratio 50:1
 Carrier gas: Helium, 12psi, constant pressure mode
 Oven temperature: 75°C to 275°C (2min.) @ 10°C/min
 Detector: FID, 300°C
 Sample: 1 µl Standard 500 ug/mL



Peak Name

1. Dichloromethane
2. Phenylenediamine
3. 2-Chloromethyl-3,4-dimethoxypyridine hydrochloride
4. Nitroaniline
5. Nitrophenylacetamide

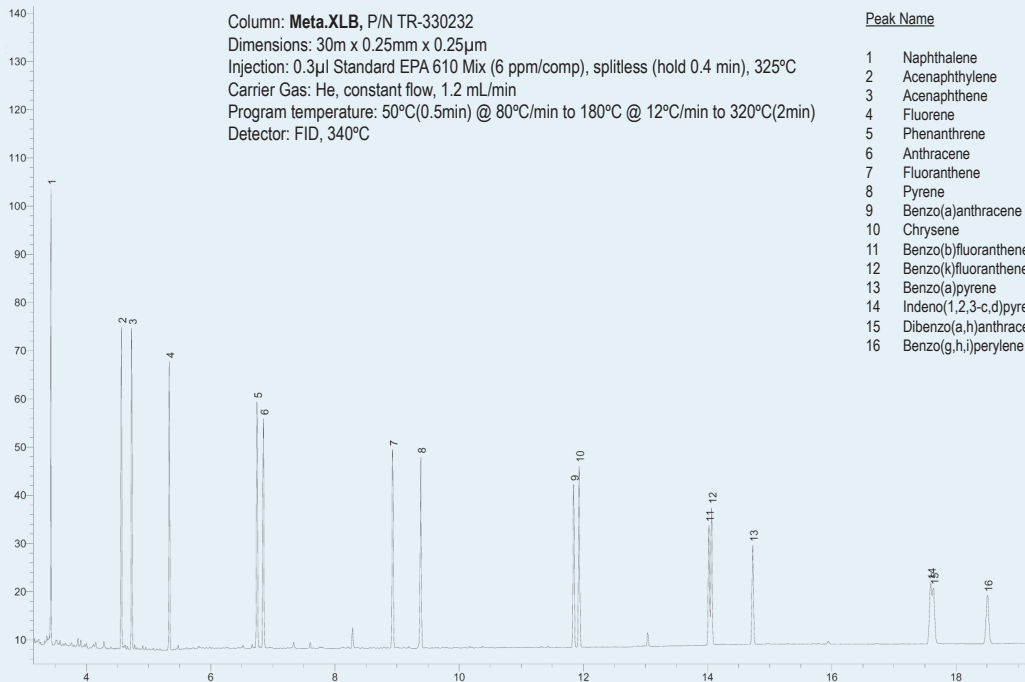
TKG 1264

POLYCYCLIC AROMATIC HYDROCARBONS (PAH EPA 610)

Column: **Meta.XLB**, P/N TR-330232
 Dimensions: 30m x 0.25mm x 0.25µm
 Injection: 0.3µl Standard EPA 610 Mix (6 ppm/comp), splitless (hold 0.4 min), 325°C
 Carrier Gas: He, constant flow, 1.2 mL/min
 Program temperature: 50°C(0.5min) @ 80°C/min to 180°C @ 12°C/min to 320°C(2min)
 Detector: FID, 340°C

Peak Name

- 1 Naphthalene
- 2 Acenaphthylene
- 3 Acenaphthene
- 4 Fluorene
- 5 Phenanthrene
- 6 Anthracene
- 7 Fluoranthene
- 8 Pyrene
- 9 Benzo(a)anthracene
- 10 Chrysene
- 11 Benzo(b)fluoranthene
- 12 Benzo(k)fluoranthene
- 13 Benzo(a)pyrene
- 14 Indeno(1,2,3-c,d)pyrene
- 15 Dibenzo(a,h)anthracene
- 16 Benzo(g,h,i)perylene



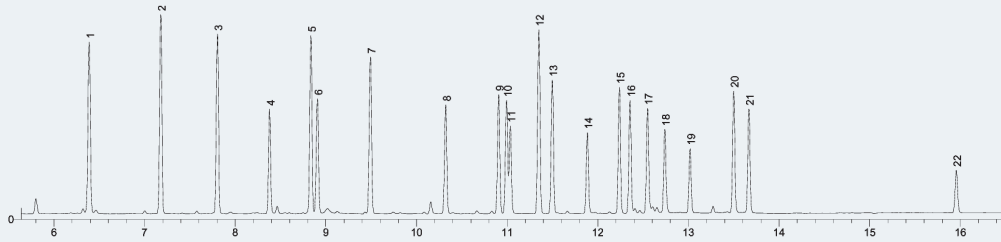
TKG 1270

CLP PESTICIDES (EPA 8081)

Column: **Meta.XLB**, P/N TR-330232
 Dimensions: 30m x 0.25mm x 0.25µm
 Injection: 0.5µl Standard (12-120 ppb, surrogates 50ppb), splitless 30s, 250°C
 Carrier Gas: He, 30psi (206.7 KPa), 45cm/s at 110°C
 Program temperature: 110°C(0.5min) @ 25°C/min to 150°C @ 12°C/min to 260°C @ 15°C/min to 320°C(2min)
 Detector: ECD, 330°C

Peak Name

- 1 2,4,5,6-Tetrachloro-m-xylene (surr.)
- 2 α-BCH
- 3 γ-BHC
- 4 β-BCH
- 5 δ-BHC
- 6 Heptachlor
- 7 Aldrin
- 8 Heptachlor epoxide
- 9 γ-Chlordane
- 10 α-Chlordane
- 11 Endosulfan I
- 12 4,4'-DDE
- 13 Dieldrin
- 14 Endrin
- 15 4,4'-DDD
- 16 Endosulfan II
- 17 Endrin aldehyde
- 18 4,4'-DDT
- 19 Endosulfan sulfate
- 20 Methoxychlor
- 21 Endrin ketone
- 22 Decachlorobiphenyl (surr.)



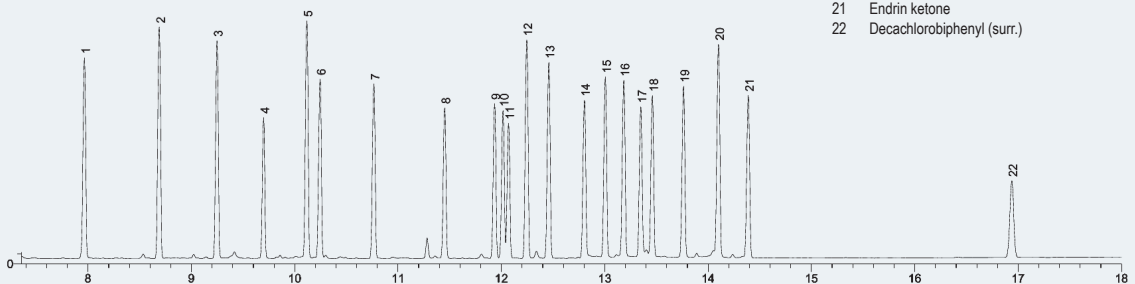
TKG 1269

CLP PESTICIDES (EPA 8081)

Column: **Meta.XLB**, P/N TR-330533
 Dimensions: 30m x 0.32mm x 0.50µm
 Injection: 0.3µl Standard (30 pg/compound), splitless 30s, 250°C
 Carrier Gas: He, 18psi (124 KPa), 43 cm/s at 110°C
 Program temperature: 110°C(0.5min) @ 15°C/min to 320°C(2min)
 Detector: ECD, 340°C (make up N2 30mL/min)

Peak Name

- 1 2,4,5,6-Tetrachloro-m-xylene (surr.)
- 2 α-BCH
- 3 γ-BHC
- 4 β-BCH
- 5 δ-BHC
- 6 Heptachlor
- 7 Aldrin
- 8 Heptachlor epoxide
- 9 γ-Chlordane
- 10 α-Chlordane
- 11 Endosulfan I
- 12 4,4'-DDE
- 13 Dieldrin
- 14 Endrin
- 15 4,4'-DDD
- 16 Endosulfan II
- 17 Endrin aldehyde
- 18 4,4'-DDT
- 19 Endosulfan sulfate
- 20 Methoxychlor
- 21 Endrin ketone
- 22 Decachlorobiphenyl (surr.)



TKG 1271