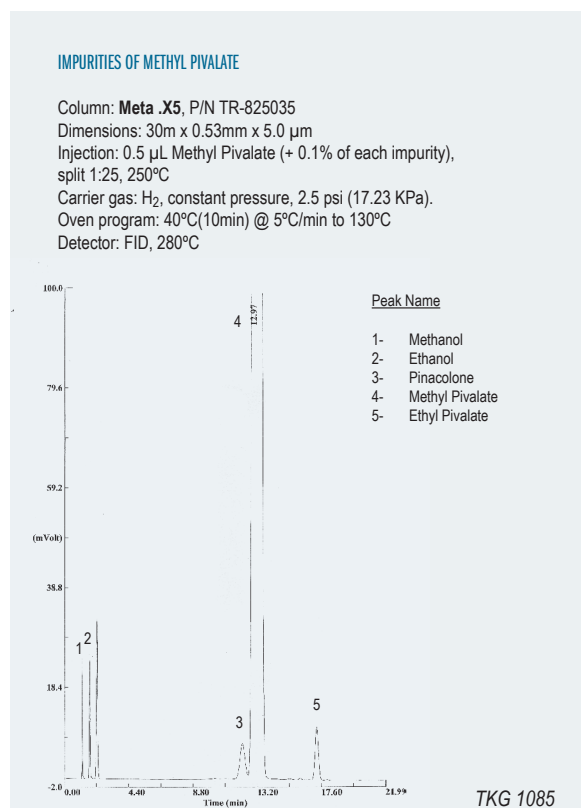
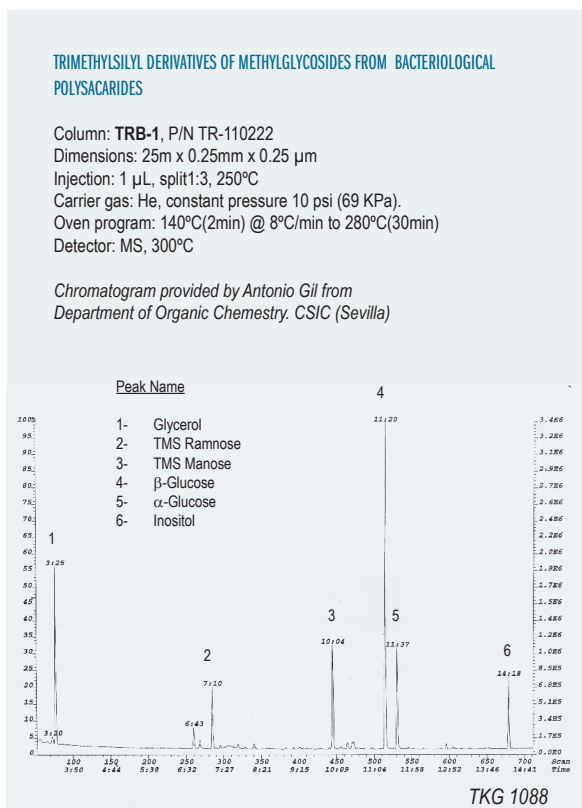
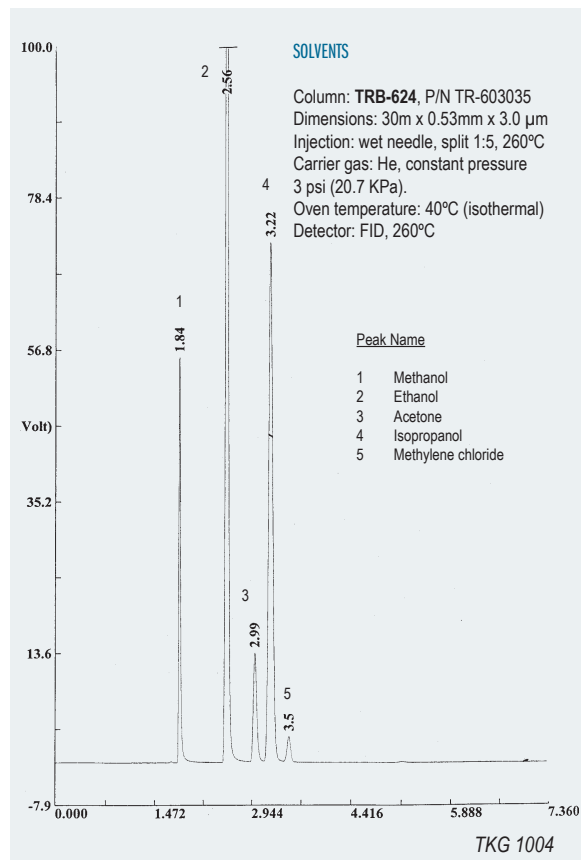
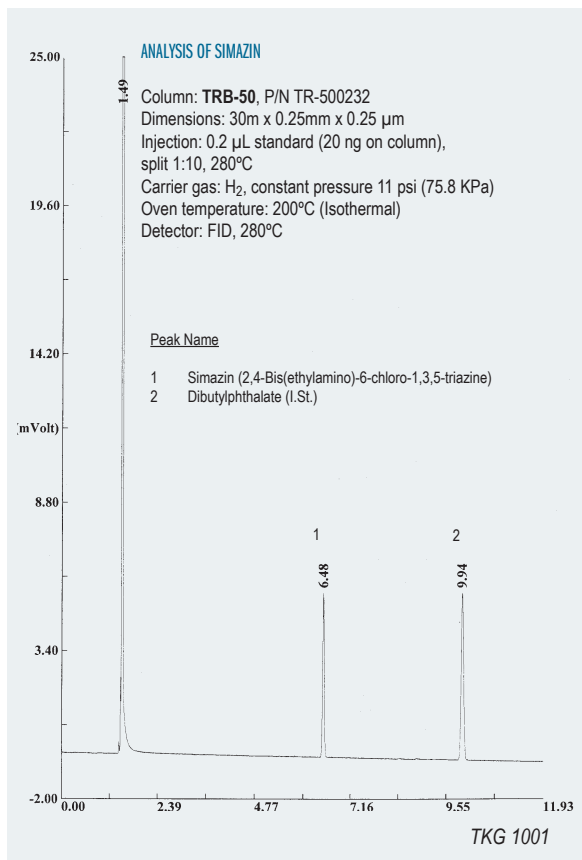




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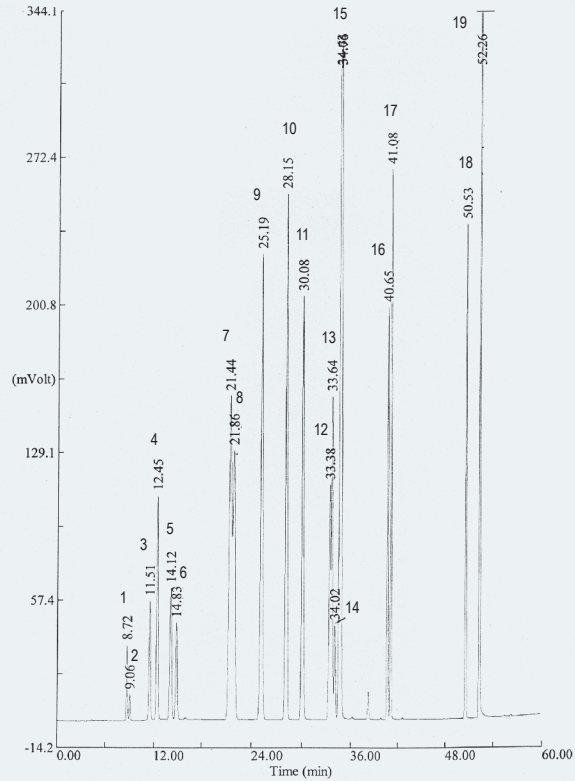


ANALYSIS OF SOLVENTS

Column: **TRB-WAX**, P/N TR-142065
 Dimensions: 60m x 0.53mm x 2.0 µm
 Injection: wet needle, split, 250°C
 Carrier gas: H₂, constant pressure 4 psi (27.6 KPa).
 Oven program: 55°C(20min) @ 3°C/min to 220°C(15min)
 Detector: FID, 260°C

Peak Name

- 1- Acetone
- 2- Methyl acetate
- 3- Ethyl acetate
- 4- Methanol + MEK
- 5- Isopropanol
- 6- Ethanol
- 7- MKB
- 8- Methoxypropyl acetate
- 9- Isobutyl acetate
- 10- Toluene
- 11- Methoxypropanol
- 12- n-butyl acetate
- 13- Isobutanol
- 14- n-butanol
- 15- p,m-xylenes
- 16- o-xylene
- 17- Ethylglycol
- 18- Diacetone alcohol
- 19- Butyl glycol



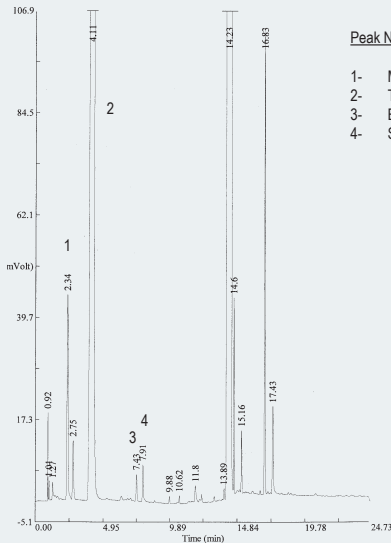
TKG 1003

SEPARATION OF MONOMERS IN PAINTS

Column: **Meta .WAX**, P/N TR-811035
 Dimensions: 30m x 0.53mm x 1.0 µm
 Injection: 1 µL Monomers mixture (20ppm, 100ppm toluene in DMSO), split 1:50, 240°C
 Carrier gas: He, 4 psi (27.6 KPa)
 Oven temperature: 40°C(5min) @ 15°C/min to 180°C(15min)
 Detector: FID, 240°C

Peak Name

- 1- Methyl acrylate
- 2- Toluene
- 3- Butyl acrylate
- 4- Styrene



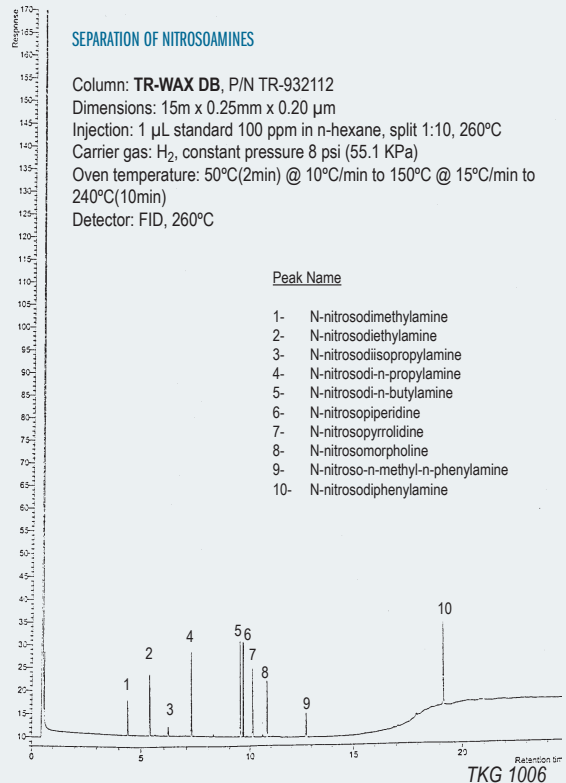
TKG 1005

SEPARATION OF NITROAMINES

Column: **TR-WAX DB**, P/N TR-932112
 Dimensions: 15m x 0.25mm x 0.20 µm
 Injection: 1 µL standard 100 ppm in n-hexane, split 1:10, 260°C
 Carrier gas: H₂, constant pressure 8 psi (55.1 KPa)
 Oven temperature: 50°C(2min) @ 10°C/min to 150°C @ 15°C/min to 240°C(10min)
 Detector: FID, 260°C

Peak Name

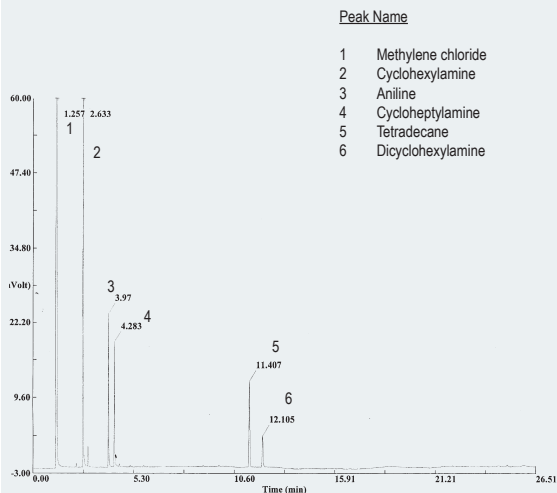
- 1- N-nitrosodimethylamine
- 2- N-nitrosodiethylamine
- 3- N-nitrosodisopropylamine
- 4- N-nitrosodi-n-propylamine
- 5- N-nitrosodi-n-butylamine
- 6- N-nitrosopiperidine
- 7- N-nitrosopyrrolidine
- 8- N-nitrosomorpholine
- 9- N-nitroso-n-methyl-n-phenylamine
- 10- N-nitrosodiphenylamine



TKG 1006

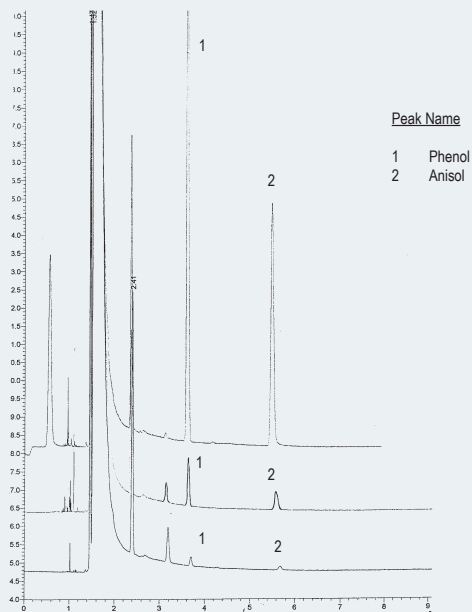
SODIUM CYCLAMATE IMPURITIES

Column: **TRB-5A**, P/N TR-210533
 Dimensions: 30m x 0.32mm x 0.5 µm
 Injection: 1 µL (50-500 ppm), split 1:15, 280°C
 Carrier gas: He, constant pressure 17 psi (117.1 KPa)
 Oven program: 85°C (1 min) @ 8°C/min to 150°C (10min)
 @ 30°C/min to 220°C (5min)
 Detector: FID, 280°C

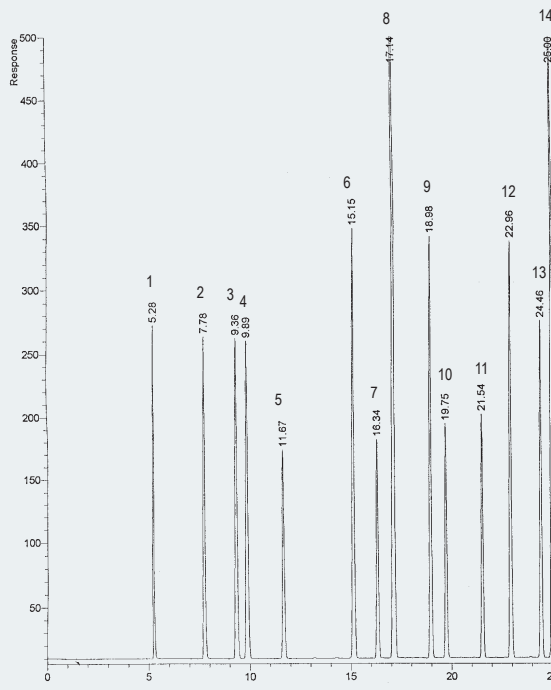


TKG 1007

Column: **TRB-624**, P/N TR-603035
 Dimensions: 30m x 0.53mm x 3.0 µm
 Injection: 1 µl (0,5,5 and 50ppm), split 1:5, 260°C
 Carrier gas: He, constant pressure 5 psi (34.5 KPa).
 Oven temperature: 150°C (isothermal)
 Detector: FID, 280°C



TKG 1008



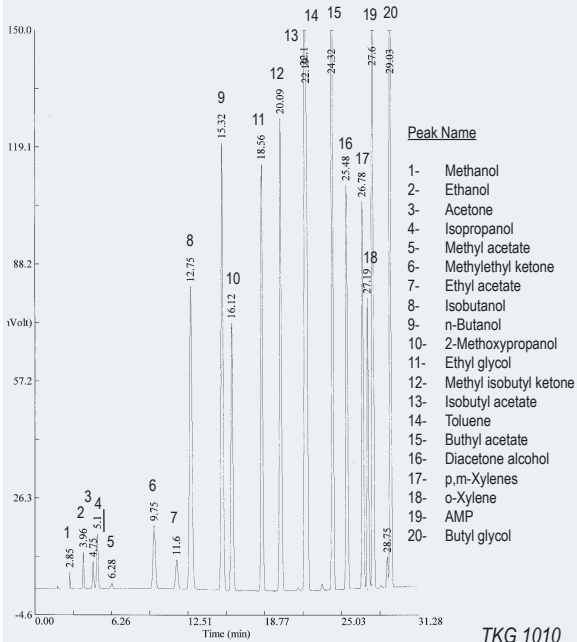
SEPARATION OF SOLVENTS

Column: **TRB-1**, P/N TR-115063
 Dimensions: 60m x 0.32mm x 5.0 µm
 Injection: wet needle (solvent mixture), split 1:100, 280°C
 Carrier gas: He, constant pressure 14 psi (96.5 KPa).
 Oven program: 45°C (7min) @ 6°C/min to 260°C (5min)
 Detector: FID, 300°C

Peak Name	Retention Time (min)
1- Methanol	5.28
2- Ethanol	7.75
3- Acetone	8.85
4- Isopropanol	8.85
5- Methyl acetate	11.67
6- Methyl ethyl ketone	15.15
7- Ethyl acetate	16.34
8- n-Butanol	17.14
9- Isobutanol	18.88
10- 2-Methoxypropanol	19.75
11- Ethyleneglycol	21.54
12- Methyl isobutyl ketone	22.96
13- Isobutyl acetate	24.45
14- Toluene	26.00
15- Butyl acetate	26.17
16- Diketone alcohol	27.39
17- 2-Methoxypropanol acetate	28.11
18- Xylene	29.60
19- Butyl glycol	30.36
20- Butyl glycol acetate	36.46

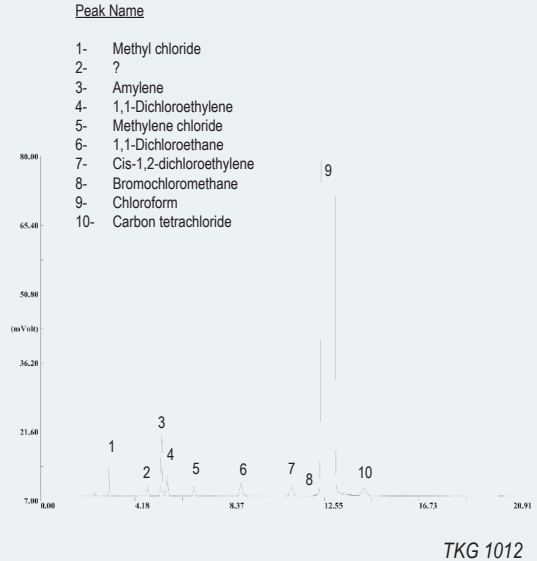
TKG 1009

Column: **TRB-1**, P/N TR-115065
 Dimensions: 60m x 0.53mm x 5.0 µm
 Injection: 0,1 µl solvent mix, split, 250°C
 Carrier gas: H₂, constant pressure 6.5 psi (45 KPa).
 Oven program: 40°C (10min) @ 5°C/min to 200°C(15min)
 Detector: FID, 280°C



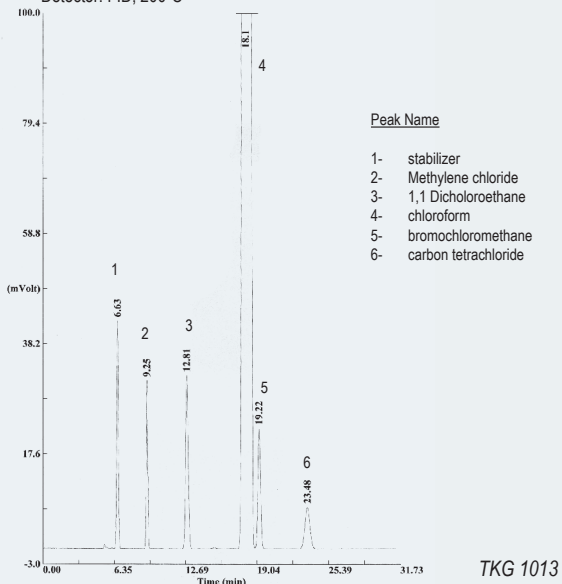
CHLOROFORM IMPURITIES

Column: **TRB-624**, P/N TR-603035
 Dimensions: 30m x 0.53mm x 3.0 µm
 Injection: 1 µl split 1:6, 260°C,
 Liner: single tape with wool
 Carrier Gas: He, 3psi (20.7 KPa), 21.9cm/s (40°C)
 Program temperature: 40°C
 Detector: FID, 200°C



CHLOROFORM IMPURITIES

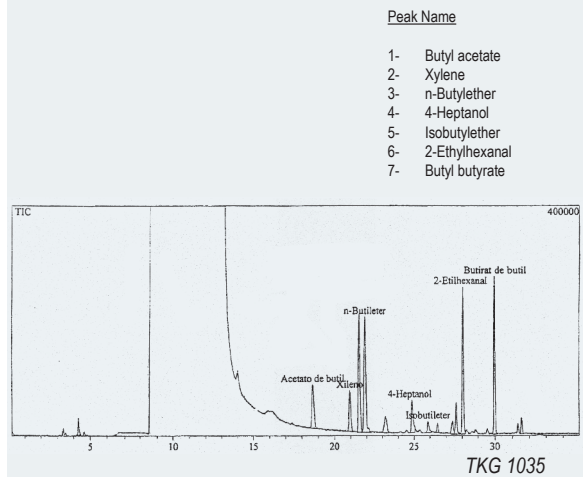
Column: **Meta.VOC**, P/N TR-943035
 Dimensions: 30m x 0.53mm x 3.0 µm
 Injection: 1 µl chloroform , split, 5:1, 150°C
 Carrier gas: He, constant pressure 2 psi (13.8 KPa), 19.53 cm/s (30°C)
 Oven program: 30°C (isothermal)
 Detector: FID, 200°C

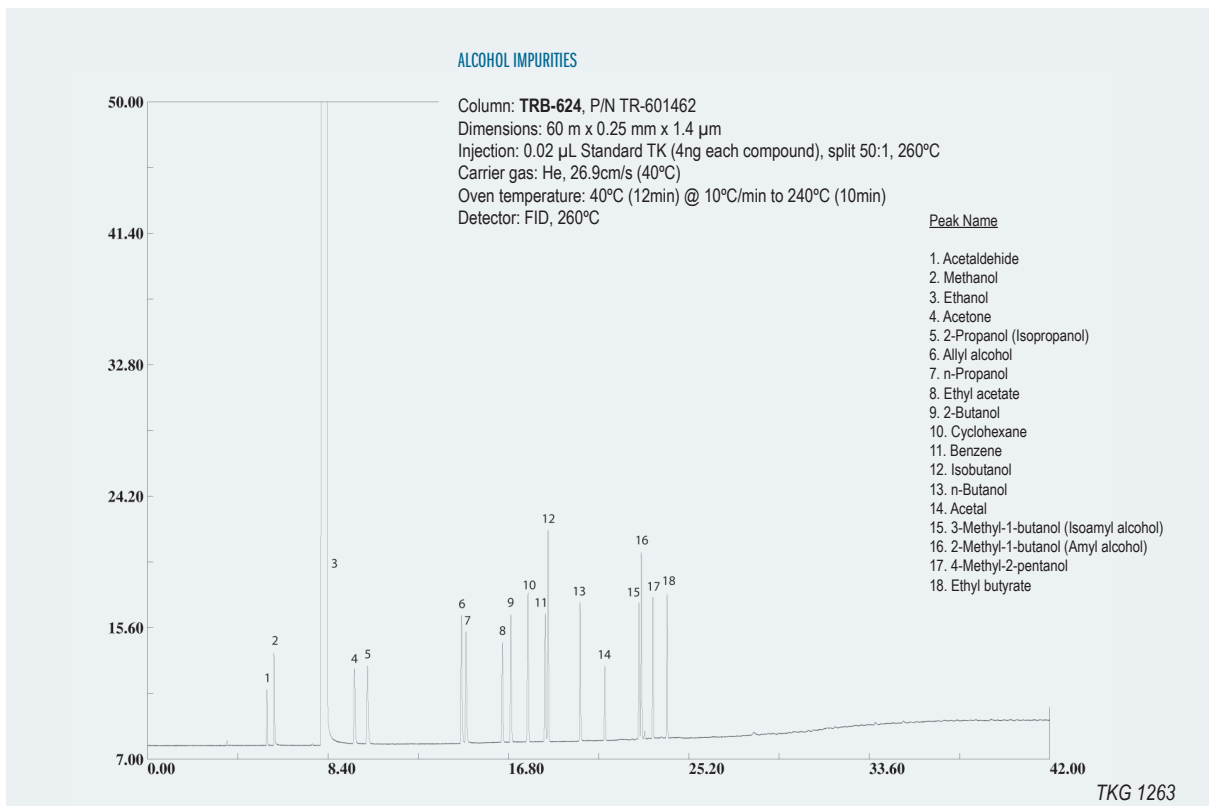
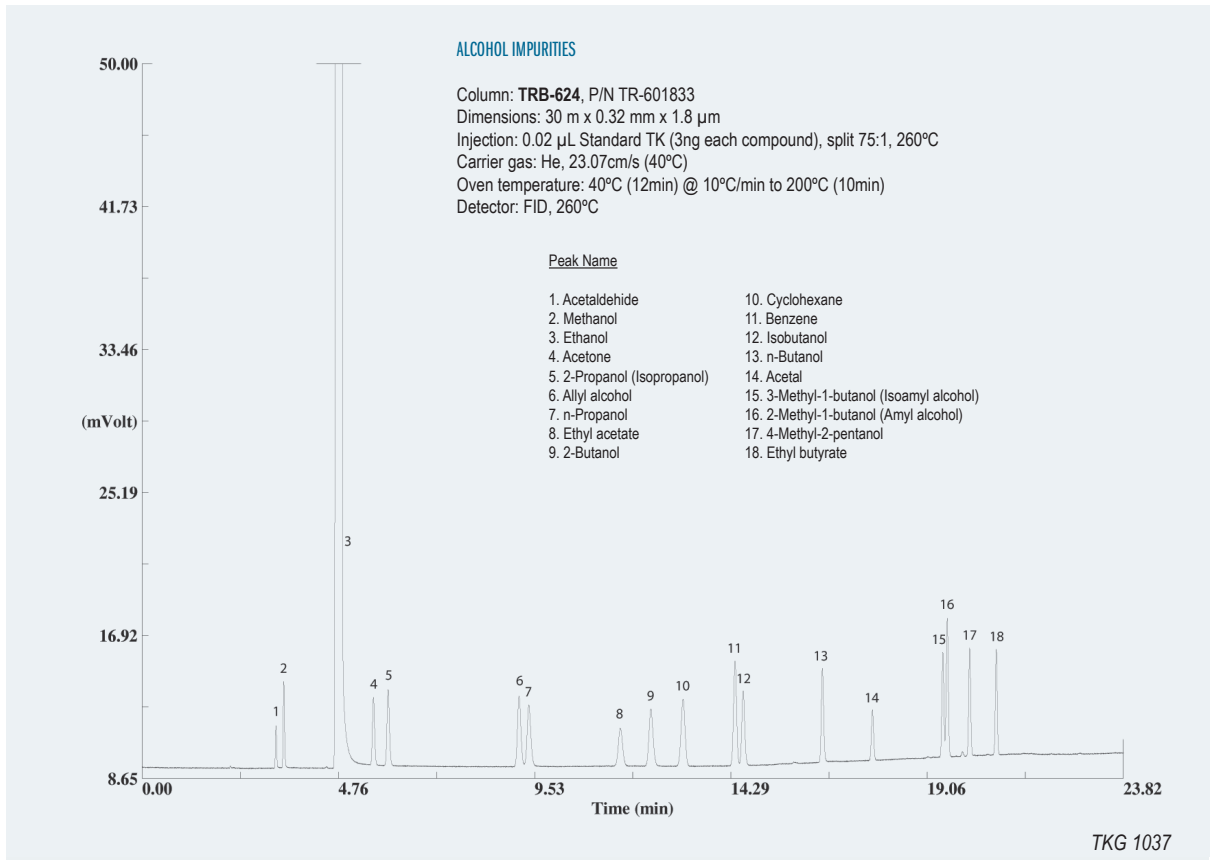


IMPURITIES OF n-BUTANOL

Column: **TRB-5**, P/N TR-120232
 Dimensions: 30m x 0.25mm x 0.25 µm
 Injection: 1 µL n-Butanol, split 1:20, 250°C
 Carrier gas: He, constant flow 1 mL/min
 Oven temperature: 40°C @ (5min) @ 4°C/min to 200°C
 @ 15°C/min to 300°C
 Detector: MS, 280°C (interphase)

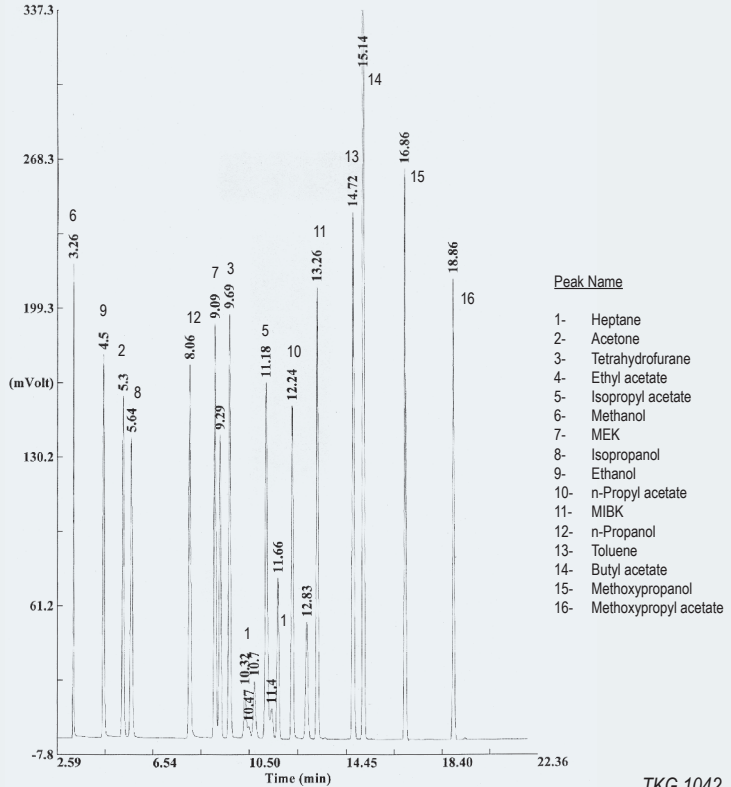
Chromatogram provided by F. Sisteré from IUCT





SEPARATION OF SOLVENTS

Column: **TRB-624**, P/N TR-603075
 Dimensions: 75m x 0.53mm x 3.0 µm
 Injection: 0.2 µL, split 1:5, 260°C
 Carrier gas: H₂, constant pressure 7.8 psi (53.74 KPa).
 Oven temperature: 40°C(5min) @ 7°C/min to 240°C
 Detector: FID, 280°C

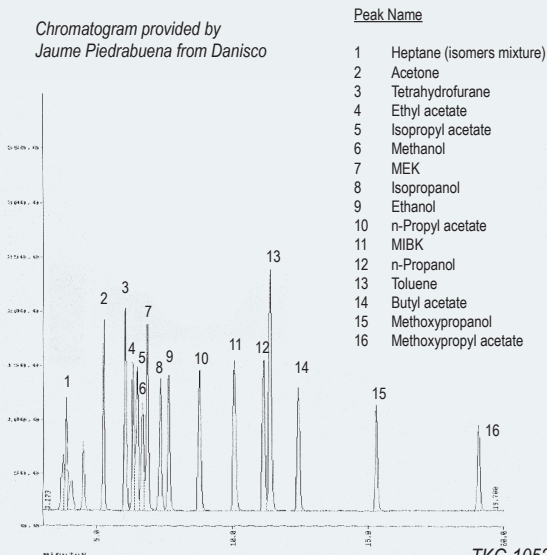


TKG 1042

SEPARATION OF SOLVENTS

Column: **TRB-WAX**, P/N TR-141253
 Dimensions: 50m x 0.32mm x 1.2 µm
 Injection: 1 µL standard (500 ng/mL comp.), split 1:25, 260°C
 Carrier gas: He, constant pressure 12 psi (82.7 Kpa)
 Oven temperature: 65°C(7min) @ 4°C/min to 117°C
 Detector: FID, 260°C

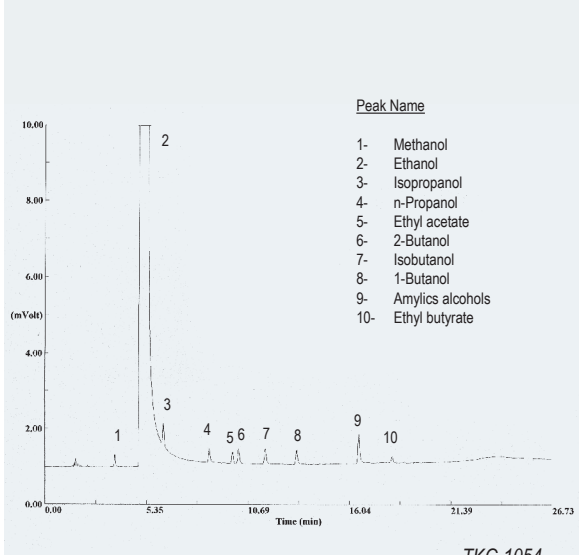
Chromatogram provided by
 Jaume Piedrabuena from Danisco



TKG 1052

IMPURITIES OF ETHANOL

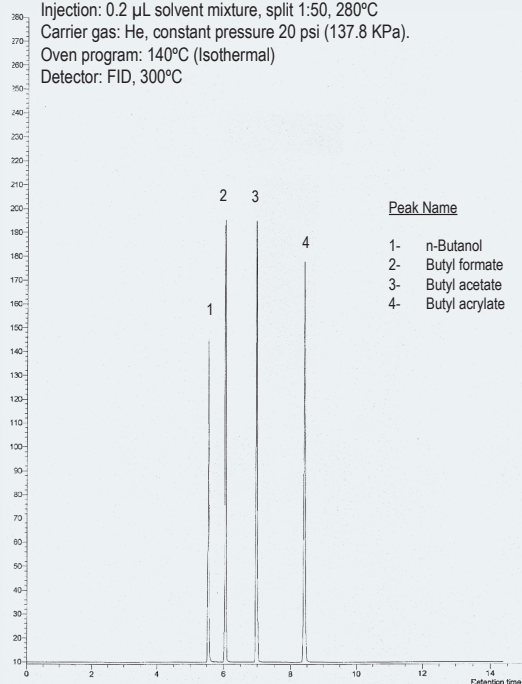
Column: **TRB-G43**, P/N TR-163035
 Dimensions: 30m x 0.53mm x 3.0 µm
 Injection: 1 µL standard alcohols (20 ppm/comp), split 1:5, 200°C
 Carrier gas: He, constant pressure 2.6 psi (17.9 KPa).
 Oven temperature: 42°C(4min) @ 5°C/min to 140°C(4min)
 Detector: FID, 200°C



TKG 1054

SEPARATION IMPURITIES OF BUTYL ACRYLATE

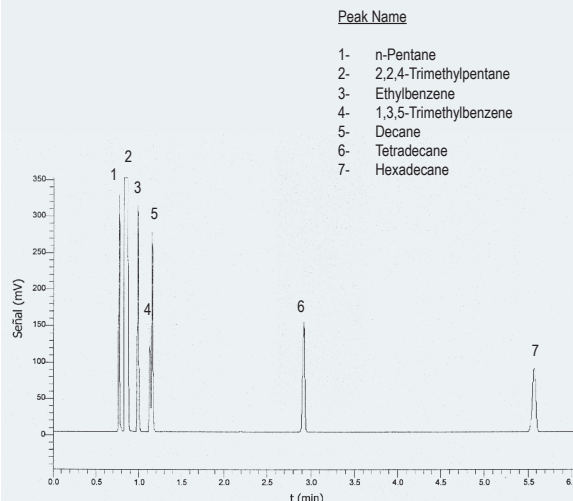
Column: **TRB-1**, P/N TR-111052
 Dimensions: 50m x 0.25mm x 1.0 μ m
 Injection: 0.2 μ L solvent mixture, split 1:50, 280°C
 Carrier gas: He, constant pressure 20 psi (137.8 kPa).
 Oven program: 140°C (Isothermal)
 Detector: FID, 300°C



TKG 1056

SEPARATION OF HYDROCARBONS (FAST CHROMATOGRAPHY)

Column: **TRB-1**, P/N TR-110441
 Dimensions: 10m x 0.10mm x 0.40 μ m
 Injection: 0.5 μ L standard Hydrocarbons
 (0.95%/comp. in 2,2,4-Trimethylpentane), split 1:200, 200°C
 Carrier gas: He, constant pressure 40 psi (275.6kPa).
 Oven temperature: 190°C (Isothermal)
 Detector: FID, 200°C

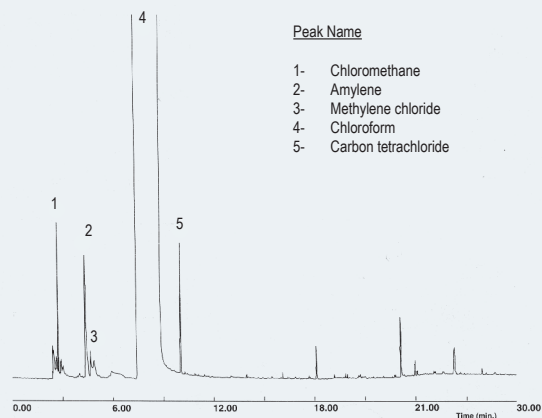


TKG 1057

Chromatogram provided by J.I. Gómez Cívicos, M^aA. Uguina Zamorano and J.L. Sotelo Sancho from Universidad Complutense de Madrid

CHLOROFORM PURITY

Column: **TRB-5**, P/N TR-121063
 Dimensions: 60m x 0.32mm x 1.0 μ m
 Injection: 250°C, 2 μ L (split 20:1)
 Carrier gas: H₂, 11 psi (75.8 kPa).
 Oven temperature: 40°C (8 min) to 200°C(5min) @ 10°C/min
 Detector: FID, 250°C

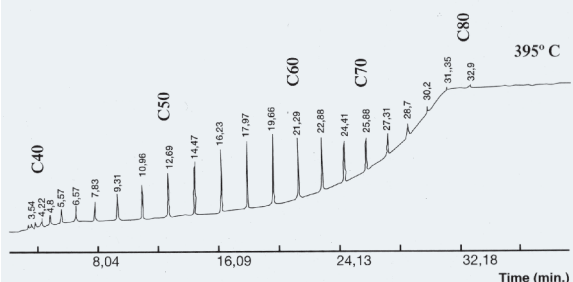


TKG 1062

POLYWAX 655

Column: **TRB-5ht**, P/N TR-620112
 Dimensions: 15m x 0.32mm x 0.1 μ m
 Injection: 0, 2 μ L (split) 2% Polywax 655 in Carbon sulfide
 Oven program: 70°C to 250°C @ 70°C/min. to 395°C(10min)
 @ 5°C/min.
 Detector: FID, 410°C

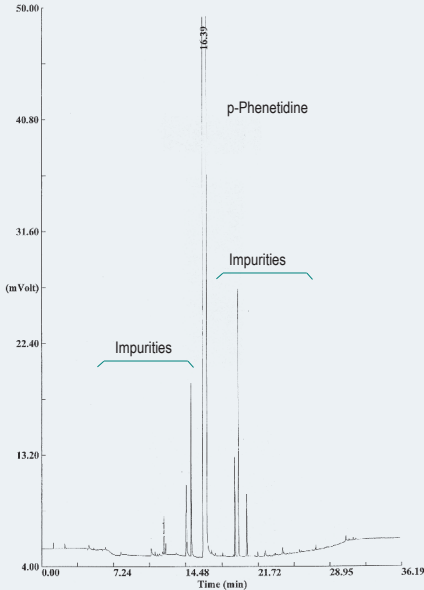
(base line without compensation)



TKG 1065

IMPURITIES OF p-PHENETIDINE

Column: **TRB-5A**, P/N TR-210532
 Dimensions: 30m x 0.32mm x 0.50 μm
 Injection: p-Phenetidine wet needle, split 1:50, 260°C
 Carrier gas: H₂, 11 psi (69 KPa)
 Oven temperature: 80°C(5min) @ 7°C/min to 260°C (6min)
 Detector: FID, 300°C

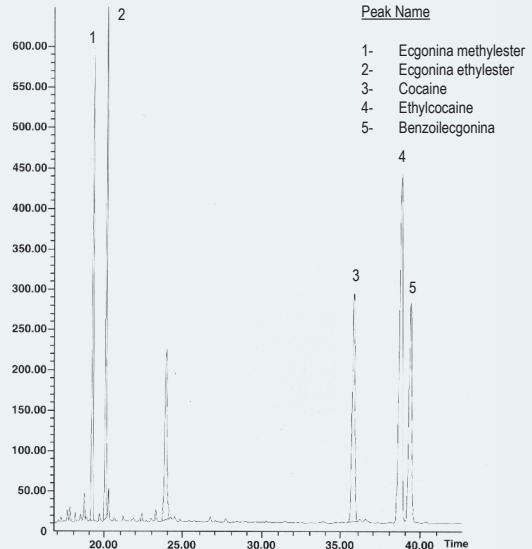


TKG 1090

DRUGS IN URINE

Column: **TRB-5ms**, P/N TR-520129
 Dimensions: 25m x 0.20mm x 0.11 μm
 Injection: 250°C, 1 μl splitless (BSTFA Derivatives in ACN)
 Carrier gas: He, 15 psi (103.3 kPa)
 Oven temperature: 60°C (1') to 180°C (1') @ 10°C/min. to 220°C @ 10°C/min.
 Detector: FID, 280°C

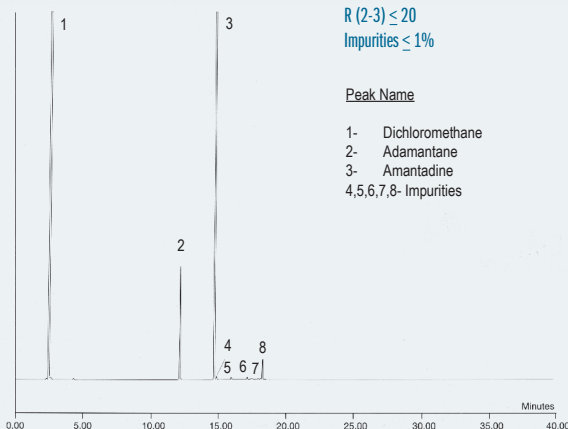
Chromatogram provided by Jordi To, Hospital Clinico from Barcelona.



TKG 1067

AMANTADINE HYDROCHLORIDE IMPURITIES

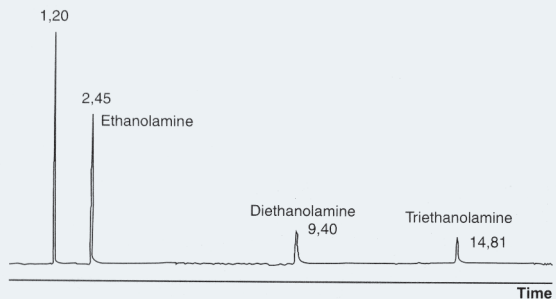
Column: **TRB-5 AMINE**, P/N TR-211035
 Dimensions: 30m x 0.53mm x 1.0m
 Injection: 2 μl (split 1:50), 220°C
 Carrier gas: He, 4.2 psi (28.9 kPa)
 Oven temperature: 70°C (5') to 250°C (20min) @ 10°C/min.
 Detector: FID, 300°C
 Sample: Test soslution according to USP 25



TKG 1074

ETHANOLAMINES SEPARATION (25 ng/peak level)

Column: **TRB-5 AMINE**, P/N TR-210533
 Dimensions: 30m x 0.32mm x 0.50 μm
 Injection: 2 μl (split 1:50), 280°C
 Carrier gas: H₂, 7 psi (48.2 kPa)
 Oven temperature: 50°C (2') to 200°C @ 10°C/min.
 Detector: FID, 300°C
 Sample: Ethanolamines solution in methanol (1,25 mg/ml)

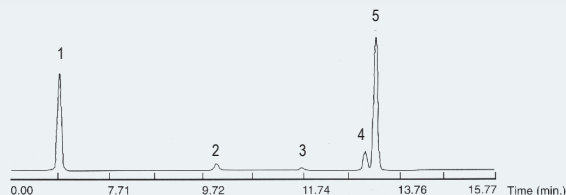


TKG 1075

USP SOLVENTS <USP> COLUMN TRB-G27+GUARDCOLUMN 5M

Column: **TRB-G27**, P/N-175035
 Dimensions: 30m x 0.53mm x 5.0 µm
 Oven temp.: 35°C(5') to 175°C@ 8°C/min. to 260°C (16')@35°C/min.
 Carrier gas: He, 4.5 psi (31 KPa), 35 cms. to 35°C
 Injector temp: 70°C
 FID temp: 260°C
 Injection: Direct injection of 1 µl (Uniliner), standard dissolution in distilled water (1:10)

Standard	Concentration
1- Methylene chloride	600ppm
2- Chloroform	60ppm
3- Benzene	2ppm
4- Trichloroethylene	80ppm
5- 1,4 - Dioxan	380ppm



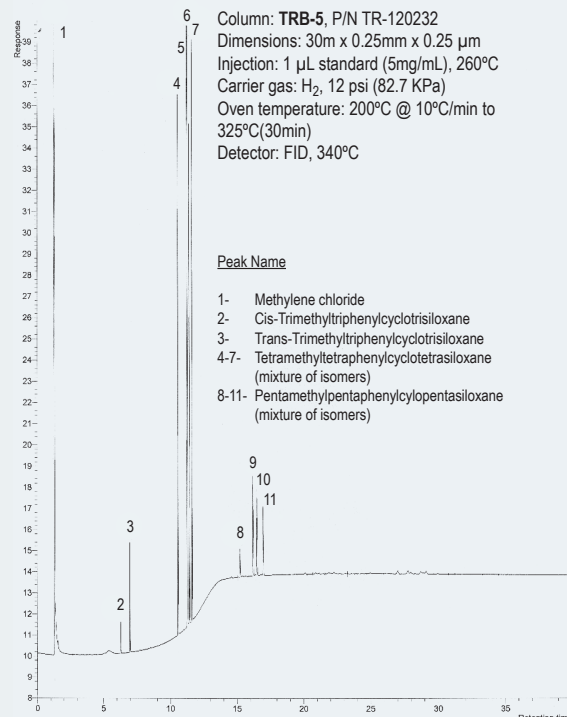
TKG 1076

ANALYSIS OF CYCLOSILOXANES

Column: **TRB-5**, P/N TR-120232
 Dimensions: 30m x 0.25mm x 0.25 µm
 Injection: 1 µL standard (5mg/mL), 260°C
 Carrier gas: H₂, 12 psi (82.7 KPa)
 Oven temperature: 200°C @ 10°C/min to 325°C(30min)
 Detector: FID, 340°C

Peak Name

- 1- Methylene chloride
- 2- Cis-Trimethyltriphenylcyclotrisiloxane
- 3- Trans-Trimethyltriphenylcyclotrisiloxane
- 4-7- Tetramethyltetraphenylcyclotetrasiloxane (mixture of isomers)
- 8-11- Pentamethylpentaphenylcyclopentasiloxane (mixture of isomers)



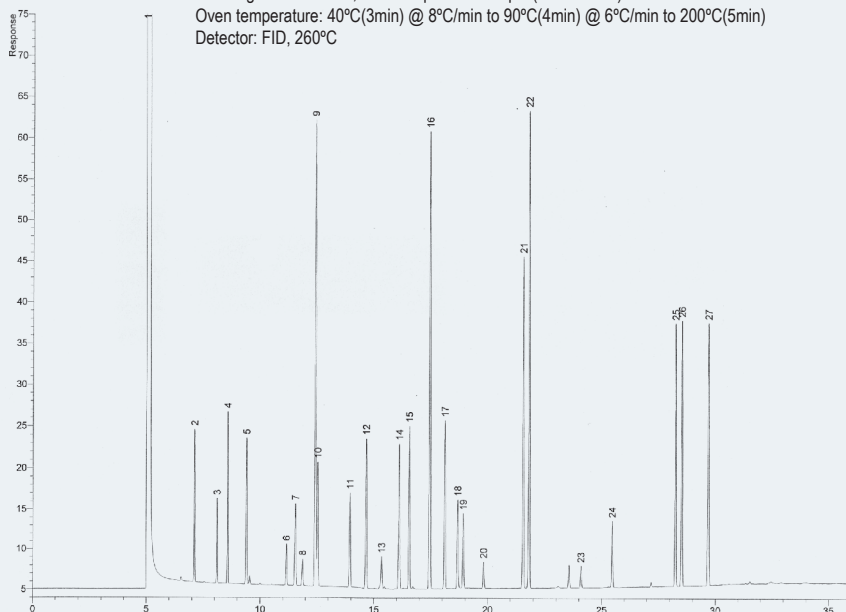
TKG 1094

EPA 601/602 PURGEABLE HALOCARBONS MIX PLUS 2-CHLOROETHYL VINYL ETHER

Column: **TRB-624**, P/N TR-601462
 Dimensions: 60m x 0.25mm x 1.4 µm
 Injection: 0.5 µL EPA 601/602 Purgeable Halocarbons Mix (2000 ng/mL), split 1:50, 260°C
 Carrier gas: He 30cm/s, constant pressure 35 psi (241.15 KPa)
 Oven temperature: 40°C(3min) @ 8°C/min to 90°C(4min) @ 6°C/min to 200°C(5min)
 Detector: FID, 260°C

Peak Name

- 1- Methanol
- 2- 1,1-Dichloroethylene
- 3- Methylene chloride
- 4- trans-1,2-Dichloroethylene
- 5- 1,1-Dichloroethane
- 6- Chloroform
- 7- 1,1,1-Trichloroethane
- 8- Carbon Tetrachloride
- 9- Benzene
- 10- 1,2-Dichloroethane
- 11- Trichloroethylene
- 12- 1,2-Dichloropropane
- 13- Bromodichloromethane
- 14- 2-Chloroethyl vinyl ether
- 15- cis-1,3-Dichloropropene
- 16- Toluene
- 17- trans-1,3-Dichloropropene
- 18- 1,1,2-Trichloroethane
- 19- Tetrachloroethylene
- 20- Dibromochloromethane
- 21- Chlorobenzene
- 22- Ethylbenzene
- 23- Bromoform
- 24- 1,1,2,2-Tetrachloroethane
- 25- 1,3-Dichlorobenzene
- 26- 1,4-Dichlorobenzene
- 27- 1,2-Dichlorobenzene



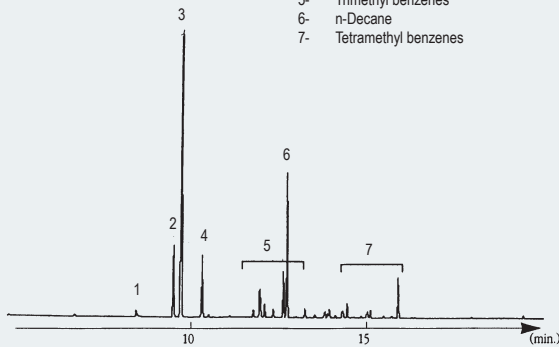
TKG 1093

SOLVENTS IN WATER

Column: **TRB-5**, P/N TR-120232
 Dimensions: 30m x 0.25mm x 0.25 m
 Injection: 1 µL, split
 Carrier gas: He
 Oven temperature:
 Detector: FID

Chromatogram provided by J. Teixidor and E. Bosch from Laboratory Dr. Riera

- Peak Name
- 1- Butyl acetate
 - 2- Ethyl acetate
 - 3- m,p-Xylene
 - 4- o-Xylene
 - 5- Trimethyl benzenes
 - 6- n-Decane
 - 7- Tetramethyl benzenes

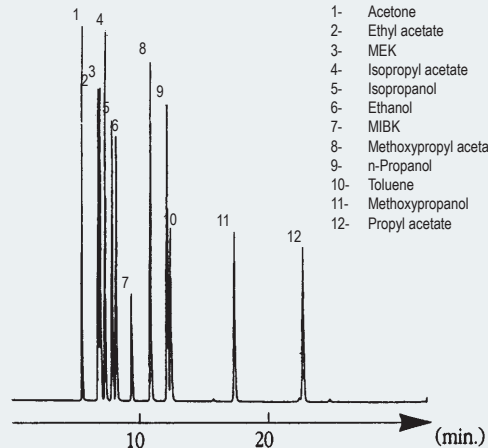


TKG 1160

INDUSTRIAL SOLVENTS

Column: **TR-WAX**, P/N TR-141253
 Dimensions: 50m x 0.32mm x 1.2 µm
 Injection: 0.1 µL, split
 Carrier gas: H₂, 16 psi (110.24 KPa)
 Oven temperature: 60°C @ 2°C/min to 125°C
 Detector: FID, 250°C

- Peak Name
- 1- Acetone
 - 2- Ethyl acetate
 - 3- MEK
 - 4- Isopropyl acetate
 - 5- Isopropanol
 - 6- Ethanol
 - 7- MIBK
 - 8- Methoxypropyl acetate
 - 9- n-Propanol
 - 10- Toluene
 - 11- Methoxypropanol
 - 12- Propyl acetate

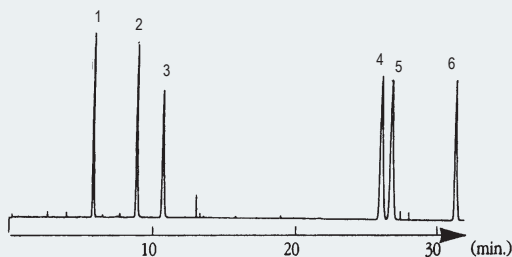


TKG 1161

INDUSTRIAL SOLVENTS

Column: **TR-WAX**, P/N TR-141233
 Dimensions: 30m x 0.32mm x 1.2 µm
 Injection: 0.1 µL, split
 Carrier gas: He, 12 psi (82.7 KPa)
 Oven temperature: 40°C @ 1°C/min to 70°C @ 7.5°C/min to 125°C
 Detector: FID, 250°C

- Peak Name
- 1- Acetone
 - 2- Methanol
 - 3- Ethanol
 - 4- p-Xylene
 - 5- m-Xylene
 - 6- o-Xylene

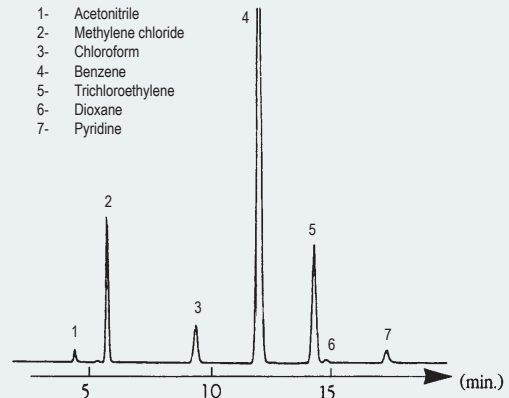


TKG 1162

INDUSTRIAL SOLVENTS IN RAW MATERIALS

Column: **TRB-5**, P/N TR-125035
 Dimensions: 30m x 0.53mm x 5.0 µm
 Injection: 1 µL, head space
 Carrier gas: N₂, 5 mL/min
 Oven temperature: 40°C(5min) @ 3°C/min to 110°C
 Detector: FID

- Peak Name
- 1- Acetonitrile
 - 2- Methylene chloride
 - 3- Chloroform
 - 4- Benzene
 - 5- Trichloroethylene
 - 6- Dioxane
 - 7- Pyridine



TKG 1163

IMPURITIES IN RAW MATERIALS

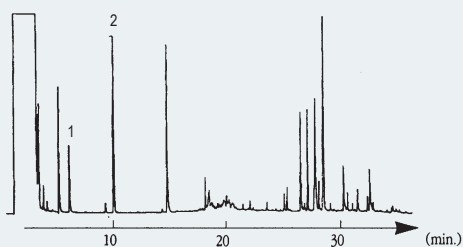
Analysis of Monochloroacetic acid

Column: **TRB-5**, P/N TR-120233
 Dimensions: 30m x 0.32mm x 0.25 μ m
 Injection: splitless 1 min, 260°C
 Carrier gas: He, 8 psi
 Oven temperature: 30°C(12min) @ 10°C/min to 250°C
 Detector: FID, 260°C

Chromatogram provided by A. Tintó from MOEHS, S.A., Barcelona.

Peak Name

- 1- Methyl chloroacetate
- 2- Internal Standard



TKG 1164

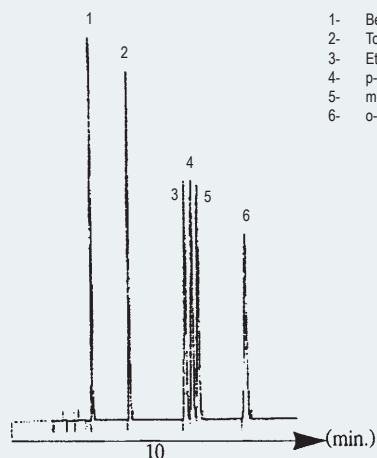
AROMATIC SOLVENTS

Column: **TRB-WAX**, P/N TR-141233
 Dimensions: 30m x 0.32mm x 1.2 μ m
 Injection: split
 Carrier gas: He, 10 psi (68.9 KPa)
 Oven temperature: 80°C (Isothermal)
 Detector: FID, 250°C

Chromatogram provided by E. Cura from SGS, S.A., Barcelona.

Peak Name

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



TKG 1165

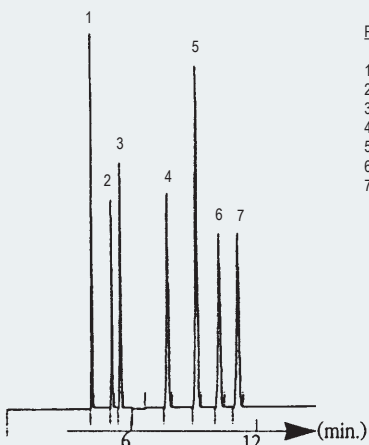
MIXTURE OF SOLVENTS

Column: **TRB-WAX**, P/N TR-141233
 Dimensions: 30m x 0.32mm x 1.2 μ m
 Injection: split
 Carrier gas: He, 10 psi (68.9 KPa)
 Oven temperature: 75°C (Isothermal)
 Detector: FID, 250°C

Chromatogram provided by E. Cura from SGS, S.A., Barcelona.

Peak Name

- 1- Acetone
- 2- Methanol
- 3- Isopropanol
- 4- MIBK
- 5- Toluene
- 6- Butyl acetate
- 7- Isobutanol



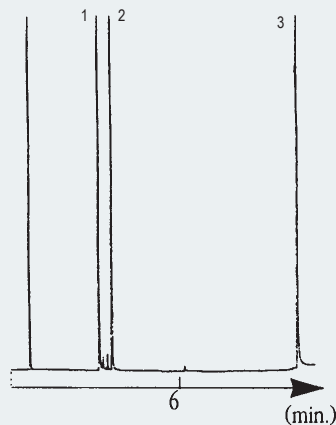
TKG 1166

GLYCOLS IN WATER

Column: **TRB-FFAP**, P/N TR-150535
 Dimensions: 30m x 0.53mm x 0.5 μ m
 Injection: 1 μ L, split
 Carrier gas: H₂, 2 psi (13.8 KPa)
 Oven temperature: 100°C @ 10°C/min to 220°C
 Detector: FID

Peak Name

- 1- Butanediol
- 2- Propylene glycol
- 3- Glycerine

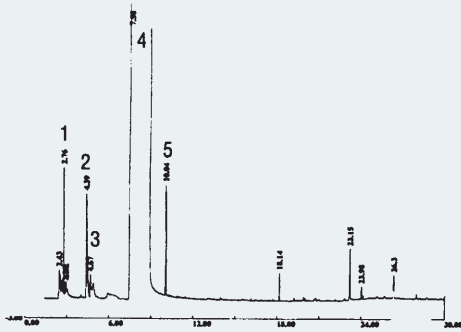


TKG 1167

PURITY OF CHLOROFORM

Column: **TRB-5**, P/N TR-121063
 Dimensions: 60m x 0.32mm x 1.0 µm
 Injection: 2 µL, split, 260°C
 Carrier gas: H₂, 11 psi (75.8 KPa)
 Oven temperature: 40°C(8min) @ 10°C/min to 200°C(5min)
 Detector: FID, 260°C

- Peak Name**
- 1- Methyl chloroform
 - 2- Amylene
 - 3- Methylene chloride
 - 4- Chloroform
 - 5- Carbon tetrachloride

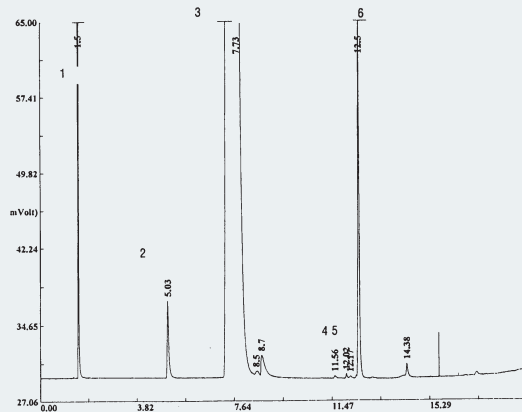


TKG 1168

IMPURITIES OF DIMETHYLACETAMIDE

Column: **TRB-WAX**, P/N TR-140232
 Dimensions: 30m x 0.25mm x 0.25 µm
 Injection: 0.3 µL, split, 260°C
 Carrier gas: H₂, 11 psi (78.8 KPa)
 Oven temperature: 75°C(7min) @ 10°C/min to 200°C
 Detector: FID, 280°C

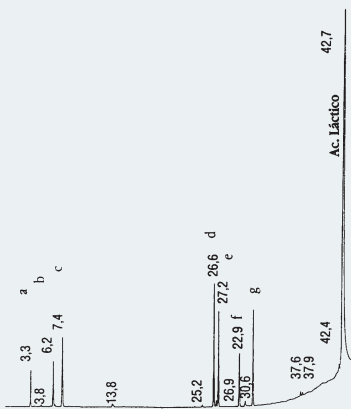
- Peak Name**
- 1- Methanol
 - 2- Dimethylformamide
 - 3- Dimethylacetamide
 - 4- Propylene glycol
 - 5- Ethylene glycol
 - 6- Monomethyl acetamide



TKG 1169

IMPURITIES OF LACTIC ACID

Column: **TRB-FFAP**, P/N TR-151035
 Dimensions: 30m x 0.53mm x 1.0 µm
 Injection: 0.5 µL, split, 260°C
 Carrier gas: H₂, 3 psi (20.7 KPa)
 Oven temperature: 45°C(15min) @ 8°C/min to 240°C(15min)
 Detector: FID, 280°C

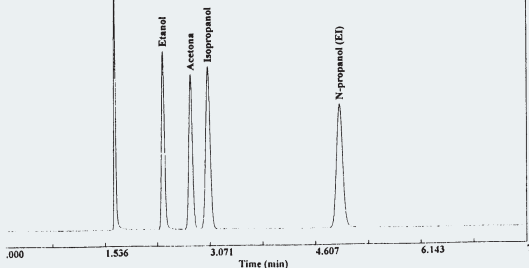


TKG 1170

ALCOHOLS IN BLOOD

Column: **TRB-G43**, P/N TR-163035
 Dimensions: 30m x 0.53mm x 3.0 µm
 Injection: 1 µL, split, alcohols standard
 Carrier gas: H₂, 4 psi (27.6 KPa)
 Oven temperature: 35°C (isothermal)
 Detector: FID, 250°C

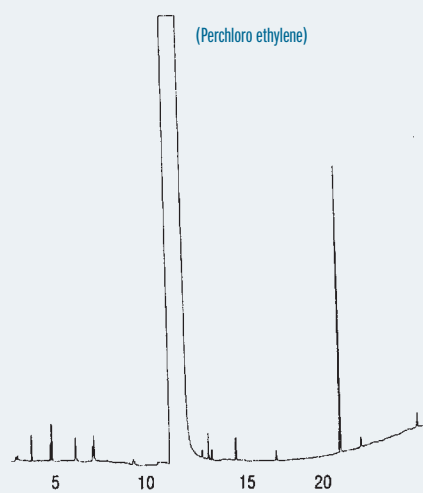
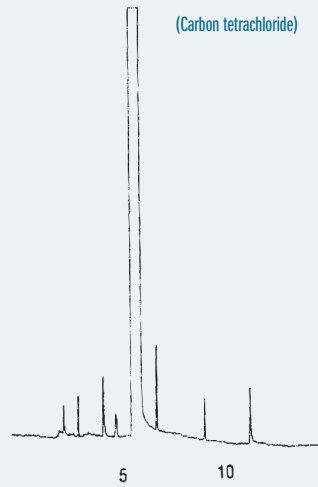
- Peak Name**
- 1- Methanol
 - 2- Ethanol
 - 3- Acetone
 - 4- Isopropanol
 - 5- n-Propanol (I.St.)



TKG 1172

IMPURITIES IN SOLVENTS

Column: **TRB-1**, P/N TR-110352
 Dimensions: 50m x 0.25mm x 0.33 μ m
 Injection: 1 μ L, split, neat solvent
 Carrier gas: H₂, 19 psi (130.9 KPa)
 Oven temperature: 35°C(5min) @ 6°C/min to 150°C(5min)
 Detector: FID, 275°C



TKG 1171

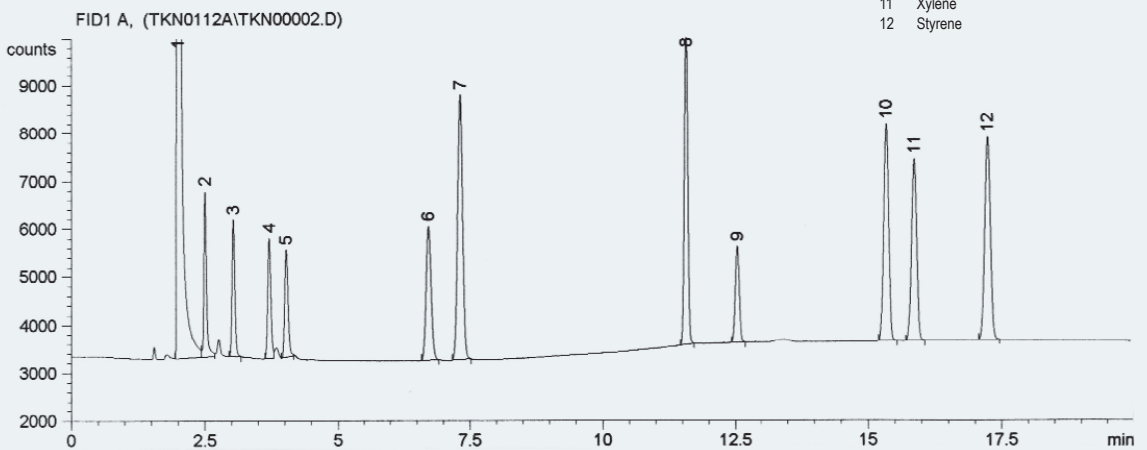
POLLUTANTS IN BLOOD

Column: **MetaBLOOD 1**, P/N TR-853035
 Dimensions: 30m x 0.53mm x 3.0 μ m
 Injection: 1 mL Head Space 2t (vial 70°C), alcohols and aromatics in blood (2-20 ppm), split 1:30, 225°C
 Carrier gas: He, 5 psi
 Oven temperature: 45°C(7 min) @ 10°C/min to 90°C(10min)
 Detector: FID, 300°C

Peak Name

- 1 Methanol
- 2 Ethanol
- 3 Isopropanol
- 4 Acetone
- 5 n-Propanol
- 6 Methyl ethyl ketone (MEK)
- 7 Benzene
- 8 Toluene
- 9 Methyl isobutyl ketone (MIBK)
- 10 Ethylbenzene
- 11 Xylene
- 12 Styrene

Chromatogram provided by Dra. Guadalupe Montoya and Dra. Isabel Bonaparte de General Lab (Barcelona)

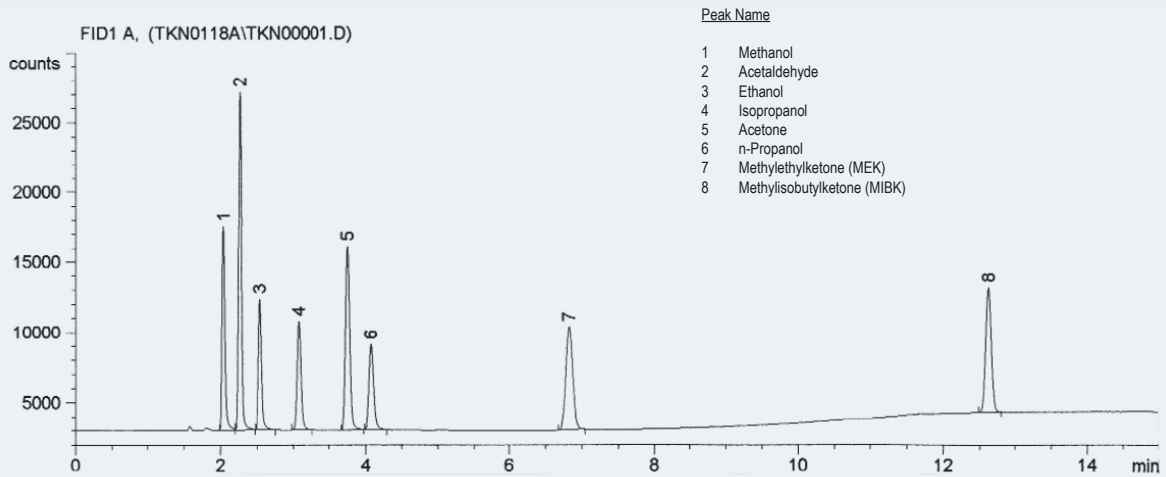


TKG 1210

POLLUTANTS IN BLOOD

Column: **MetaBLOOD 1**, P/N TR-853035
 Dimensions: 30m x 0.53mm x 3.0µm
 Injection: 1 mL Head Space 2t (vial 70°C), alcohols and aromatics in blood (2-20 ppm), split 1:30, 225°C
 Carrier gas: He, 5 psi
 Oven temperature: 45°C(7 min) @ 10°C/min to 90°C(10min)
 Detector: FID, 300°C

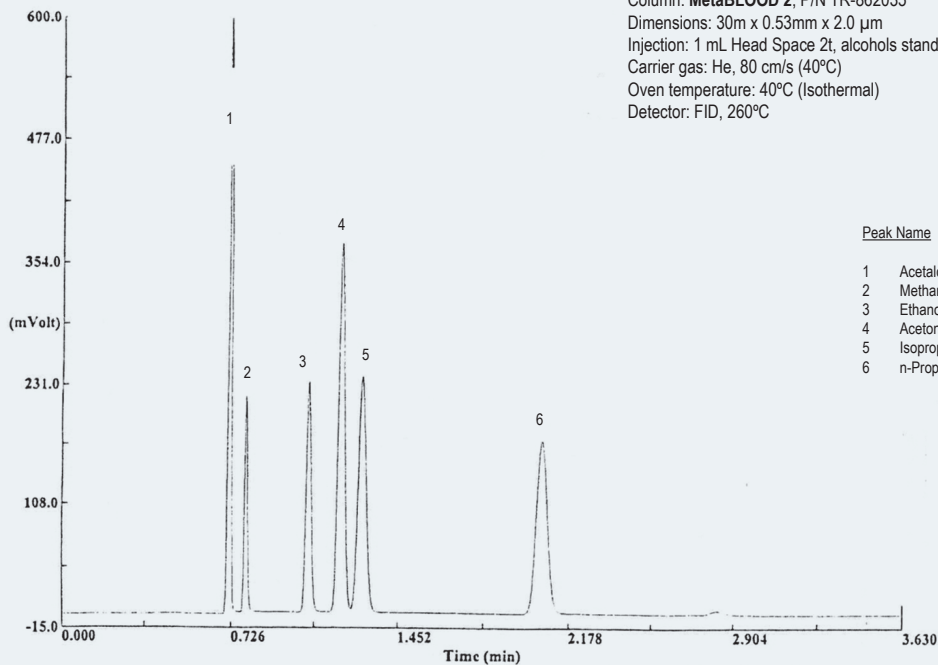
Chromatogram provided by Dra. Guadalupe Montoya and Dra. Isabel Bonaparte de General Lab (Barcelona)



TKG 1213

ALCOHOLS IN BLOOD

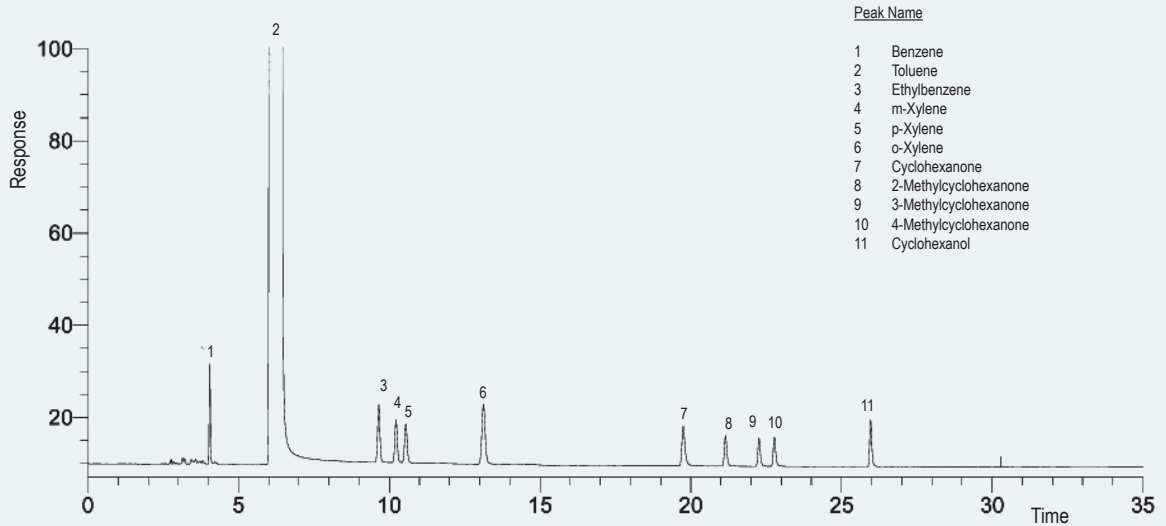
Column: **MetaBLOOD 2**, P/N TR-862035
 Dimensions: 30m x 0.53mm x 2.0 µm
 Injection: 1 mL Head Space 2t, alcohols standard, split 1:10, 250°C
 Carrier gas: He, 80 cm/s (40°C)
 Oven temperature: 40°C (Isothermal)
 Detector: FID, 260°C



TKG 1192

IMPURITIES IN TOLUENE

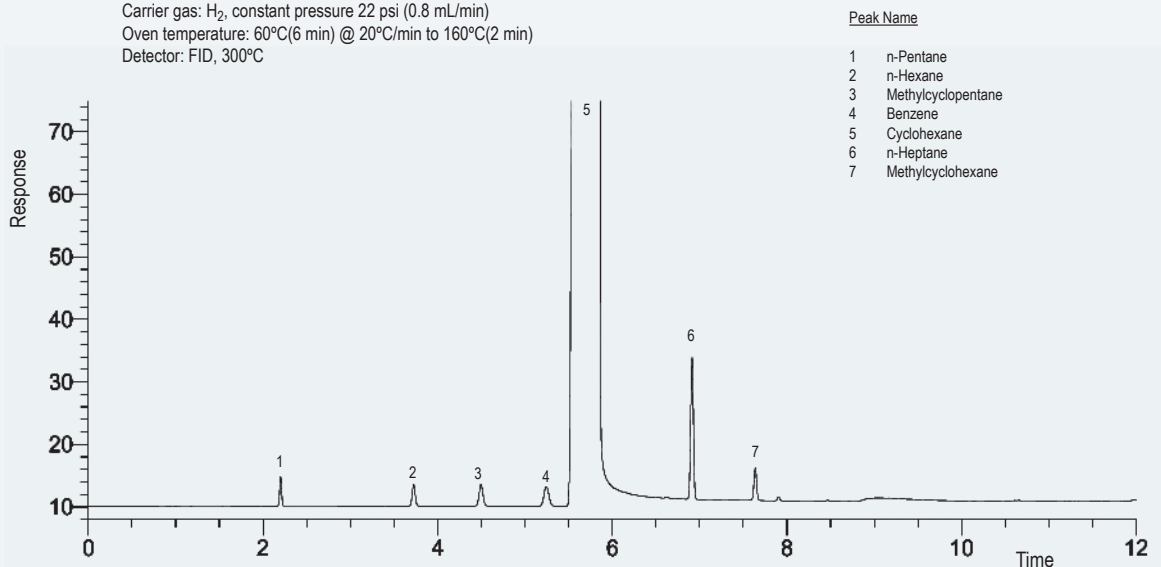
Column: **TRB-PAG**, P/N TR-550232
 Dimensions: 30m x 0.25mm x 0.25µm
 Injection: 1 µL Toluene Standard, split 1:50, 260°C
 Carrier gas: He, constant pressure 11 psi (75.8 Kpa)
 Oven Temperature: 40°C @ 6°C/min to 230°C(5min)
 Detector: FID, 260°C



TKG 1194

IMPURITIES IN CYCLOHEXANE

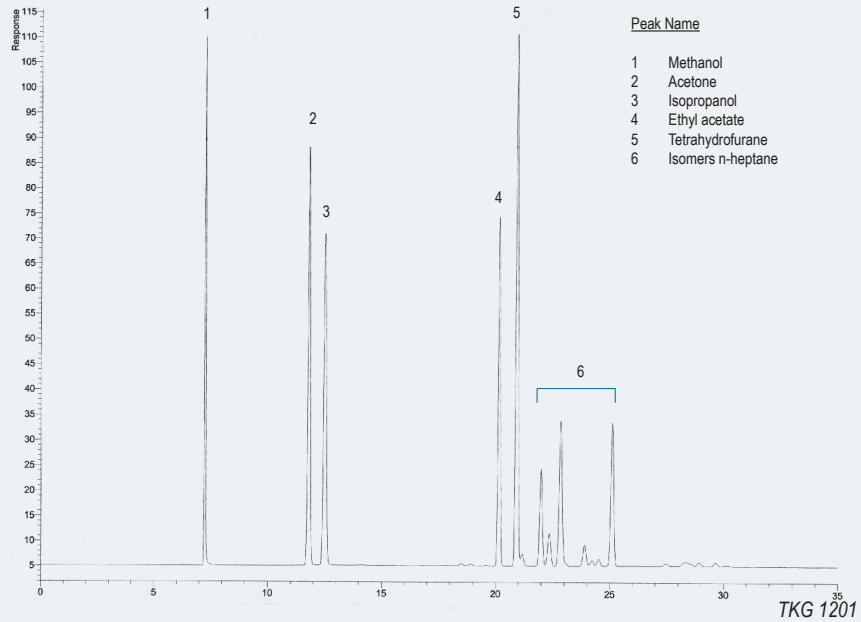
Column: **TRB-1**, P/N TR-111226
 Dimensions: 25m x 0.15mm x 1.2 µm
 Injection: 1µL Cyclohexane, split 1:100, 260°C
 Carrier gas: H₂, constant pressure 22 psi (0.8 mL/min)
 Oven temperature: 60°C(6 min) @ 20°C/min to 160°C(2 min)
 Detector: FID, 300°C



TKG 1195

MIXTURE OF SOLVENTS AND ISOMERS OF N-HEPTANE

Column: **TRB-624**, P/N TR-603075
 Dimensions: 75m x 0.53mm x 3.0 μm
 Injection: mixture of solvents (wet needle), split 1:100, 250°C
 Carrier gas: He, constant pressure 8 psi (55.7 Kpa)
 Oven temperature: 40°C(15 min) @ 15°C/min to 75°C(15 min)
 Detector: FID, 250°C

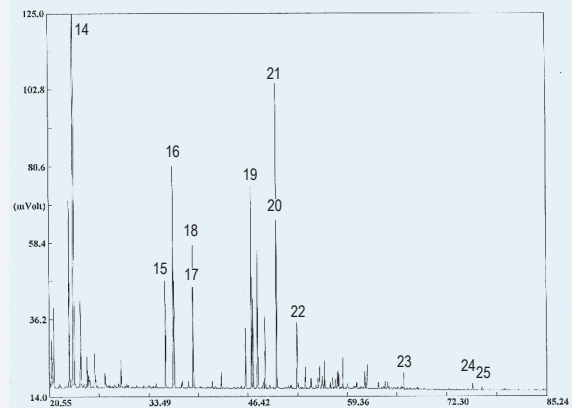
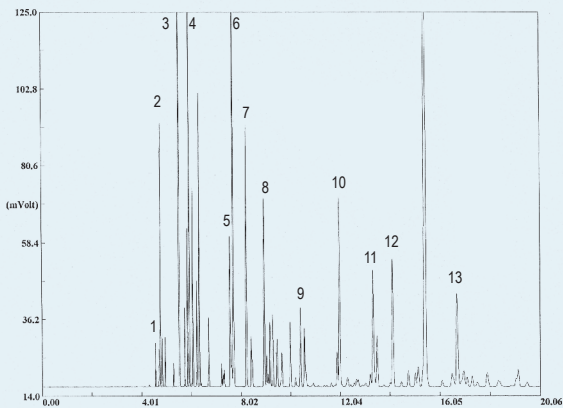


PETROL

Column: **TRB-PETROL**, P/N TR-110592
 Dimensions: 100m x 0.25mm x 0.50 μm
 Injection: 0.1 μL petrol, split 100:1, 280°C
 Carrier gas: H₂, constant pressure 221Kpa (35°C)
 Oven temperature: 35°C(18min) @ 2°C/min to 200°C(5min)
 Detector: FID, 280°C

Peak Name

- | | | | |
|----|---------------------|----|-------------------------|
| 1 | isobutane | 14 | toluene |
| 2 | n-butane | 15 | ethylbenzene |
| 3 | isopentane | 16 | m-xylene |
| 4 | pentane | 17 | p-xylene |
| 5 | 2,3-dimethylbutane | 18 | o-xylene |
| 6 | 2-methylpentane | 19 | 1-methyl-3-ethylbenzene |
| 7 | 3-methylpentane | 20 | 1,3,5-trimethylbenzene |
| 8 | hexane | 21 | 1,2,4-trimethylbenzene |
| 9 | 2,4-dimethylpentane | 22 | 1,2,3-trimethylbenzene |
| 10 | benzene | 23 | naphtalene |
| 11 | 2-methylhexane | 24 | 2-methylnaphtalene |
| 12 | 3-methylhexane | 25 | 1-methylnaphtalene |
| 13 | n-heptane | | |



TKG 1203

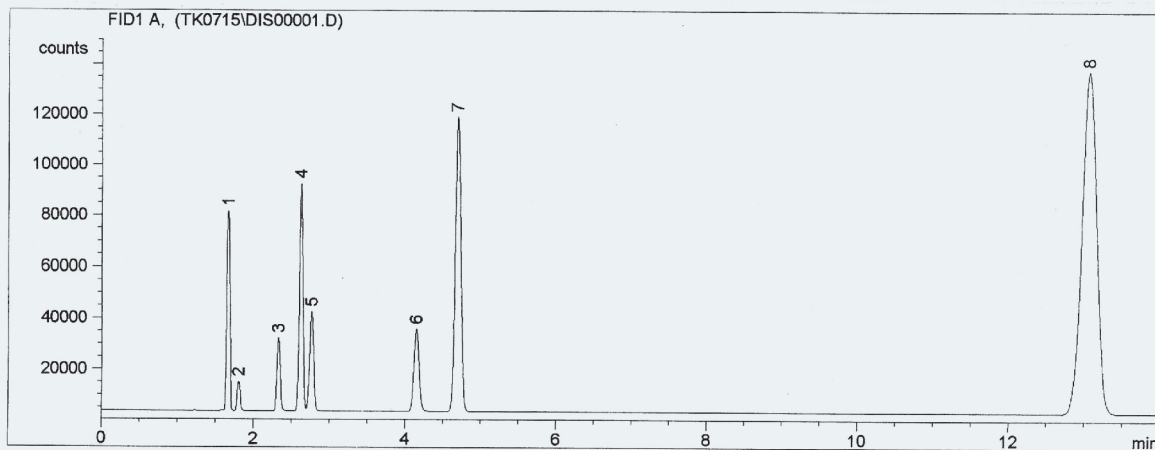
ALCOHOLS IN BLOOD

Column: **MetaBLOOD 2**, P/N TR-862035
 Size: 30m x 0.53mm x 2.0µm
 Carrier gas: He, 5 psi
 Oven Temperature: 45°C (15 min)
 Injection: 1 mL Head Space 2t (vial 70°C), alcohols in blood (2-20 ppm), split 1:20, 225°C
 Detector: FID, 300°C

Chromatogram provided by *Dra. Guadalupe Montoya y Dra. Isabel Bonaparte*
 from General Lab (Barcelona)

Peak Name

- 1 Acetaldehyde
- 2 Methanol
- 3 Ethanol
- 4 Acetone
- 5 Isopropanol
- 6 n-Propanol
- 7 Methyl ethyl ketone (MEK)
- 8 Methylisobutylketone (MIBK)



TKG 1209

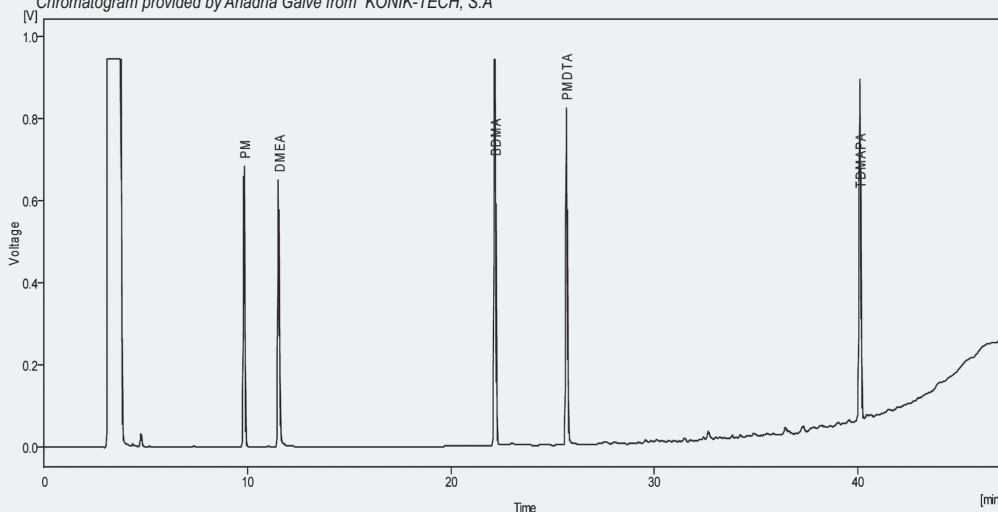
AMINES

Column: **TRB-624**, P/N TR-603065
 Size: 60m x 0.53mm x 3.0µm
 Injection: 1 µl amines standard, split 1:5, 260°C
 Carrier Gas: He, 8 mL/min
 Program temperature: 40°C (1min) @ 5°C/min to 260°C (10min)
 Detector: FID KONIK-TECH, 270°C

Sample

- PM (1-methoxy-2-propanol)
- DMEA (N,N-dimethylethanolamine)
- BDMA (N,N-dimethylbenzylamine)
- PMDTA (pentamethyldiethylenetriamine)
- TDMAPA (N,N,N-tris(3-dimethylaminopropyl)amine)

Chromatogram provided by *Ariadna Galve* from KONIK-TECH, S.A



TKG 1214

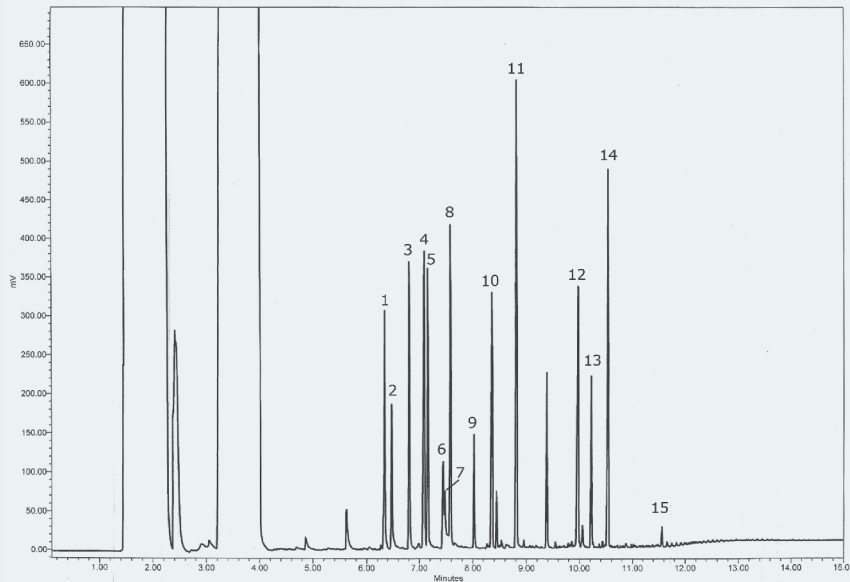
AMINOACIDS

Column: **TRB-50ht**, P/N TR-531332
 Size: 30m x 0.25mm x 0.15µm
 Injection: 2 µl standard AA-S-18 Sigma (2.5µmol/ml), split, 300°C
 Carrier gas: He, 1mL/min
 Program temperature: 50°C (2min) @ 30°C/min to 350°C (3min)
 Detector: MS Polaris Q, EI, 200°C, transfer line 200°C

Peak Name

- 1 Alanine
- 2 Glycine
- 3 Valine
- 4 Leucine
- 5 Isoleucine
- 6 Serine
- 7 Threonine
- 8 Proline
- 9 Hydroxyproline
- 10 Methionine
- 11 Phenylalanine
- 12 Lysine
- 13 Histidine
- 14 Tyrosine
- 15 Cystine

Chromatogram provided by Antonio Tintó from Moehs S.A.



TKG 1215

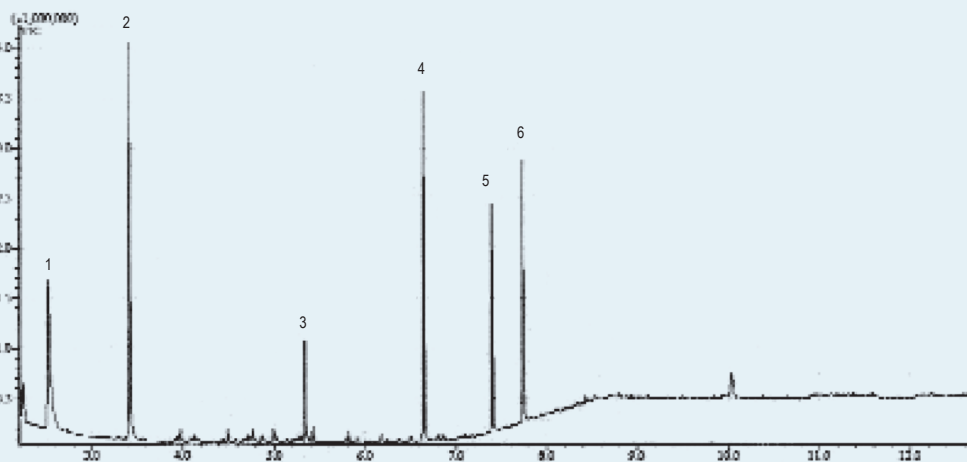
HYDROCARBONS

Column: **TRB-1ht**, P/N TR-610133
 Size: 30m x 0.32mm x 0.1µm
 Injection: hydrocarbons standard 1250 ppb, splitless, 250°C
 Carrier gas: He, constant flow 2 mL/min
 Program Temperature: 50°C (1 min) @ 40°C/min to 320°C (5 min)
 Detector: MS, ion source 200°C, Interfase 280°C, scan 20-600

Peak Name

- 1 C10
- 2 C12
- 3 C24
- 4 C28
- 5 C30
- 6 C40

Chromatogram provided by Vanesa Riu de ILERSAP, Mollerussa (Lleida).



IKG 1221

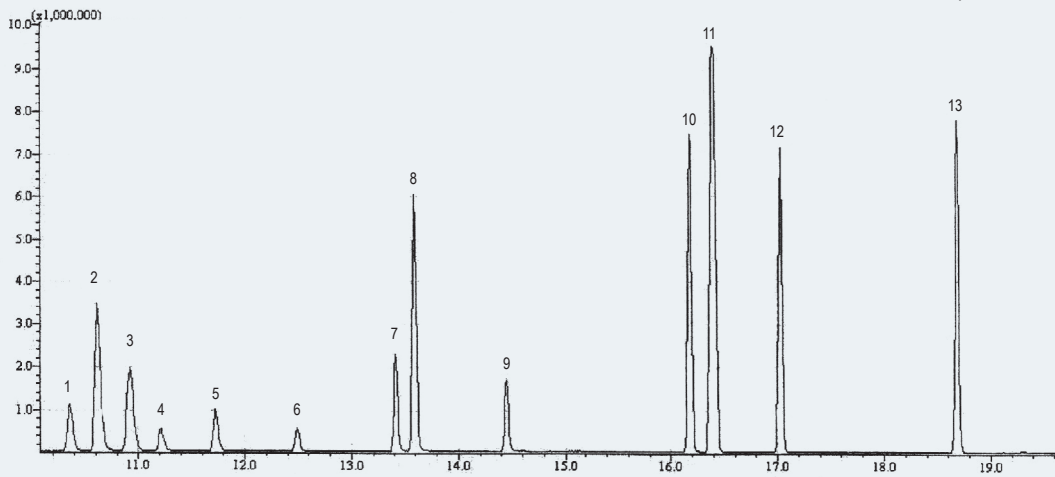
VOLATIL SOLVENTS NO HALOGENATED

Column: **TRB-1**, P/N TR-111062
 Size: 60m x 0.25mm x 1.0µm
 Injection: 1 mL Headspace (70°C, 20min), split 1:5, 250°C
 Carrier Gas: He, constant flow 1mL/min
 Program Temperature: 40°C(2 min) @ 8°C/min to 240°C(10 min)
 Detector: MS, ion source 200°C, Interface 250°C, scan 20-400

Chromatogram provided by Vanesa Riu de ILERSAP, Mollerussa (Lleida).

Peaks

- 1 Isobutyl acetate
- 2 Benzene
- 3 Cyclohexane
- 4 3-Pentanone
- 5 Propyl acetate
- 6 Methyl isobutyl ketone
- 7 Isobutyl acetate
- 8 Toluene
- 9 Butyl acetate
- 10 Ethylbenzene
- 11 m,p-Xylene
- 12 o-Xylene
- 13 Isobutyl Ketone



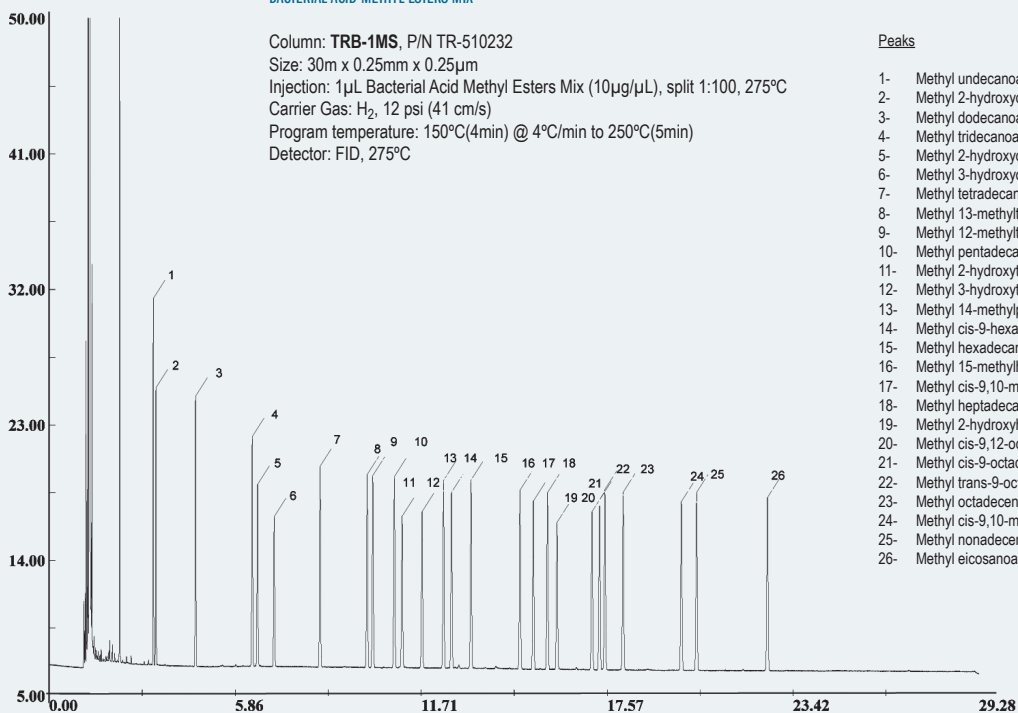
TKG 1220

BACTERIAL ACID METHYL ESTERS MIX

Column: **TRB-1MS**, P/N TR-510232
 Size: 30m x 0.25mm x 0.25µm
 Injection: 1µL Bacterial Acid Methyl Esters Mix (10µg/µL), split 1:100, 275°C
 Carrier Gas: H₂, 12 psi (41 cm/s)
 Program temperature: 150°C(4min) @ 4°C/min to 250°C(5min)
 Detector: FID, 275°C

Peaks

- 1- Methyl undecanoate
- 2- Methyl 2-hydroxydodecanoate
- 3- Methyl dodecanoate
- 4- Methyl tridecanoate
- 5- Methyl 2-hydroxydodecanoate
- 6- Methyl 3-hydroxydodecanoate
- 7- Methyl tetradecanoate
- 8- Methyl 13-methyltetradecanoate
- 9- Methyl 12-methyltetradecanoate
- 10- Methyl pentadecanoate
- 11- Methyl 2-hydroxytetradecanoate
- 12- Methyl 3-hydroxytetradecanoate
- 13- Methyl 14-methylpentadecanoate
- 14- Methyl cis-9-hexadecanoate
- 15- Methyl hexadecanoate
- 16- Methyl 15-methylhexadecanoate
- 17- Methyl cis-9,10-methylenehexadecanoate
- 18- Methyl heptadecanoate
- 19- Methyl 2-hydroxyheptadecanoate
- 20- Methyl cis-9,12-octadecadienoate
- 21- Methyl cis-9-octadecenoate
- 22- Methyl trans-9-octadecenoate
- 23- Methyl octadecanoate
- 24- Methyl cis-9,10-methyleneoctadecanoate
- 25- Methyl nonadecanoate
- 26- Methyl eicosanoate



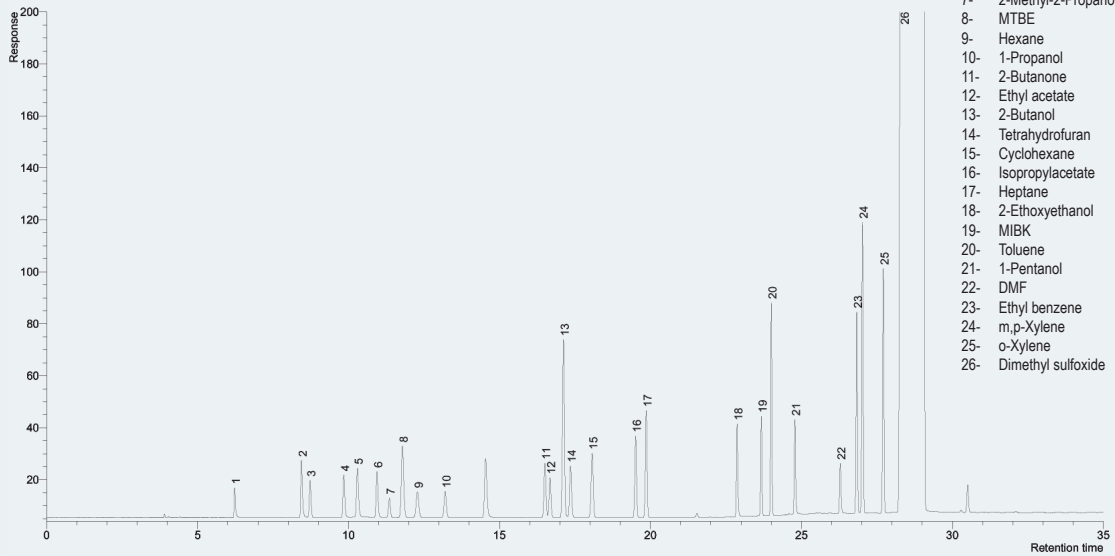
TKG 1231

RESIDUAL SOLVENTS IN DMSO

Column: **TRB-624**, P/N TR-601863
 Size: 60m x 0.32mm x 1.8µm
 Injection: 1µL mixture of solvents (500 ppm in DMSO), split 1:50, 260°C
 Carrier gas: He, constant pressure 16 psi
 Program Temperature: 40°C(5 min) @ 2°C/min to 60°C @ 9°C/min to 115°C @ 35°C/min to 220°C(15min)
 Detector: FID, 260°C

Peak Name

- 1- Methanol
- 2- Ethanol
- 3- Acetone
- 4- 2-Propanol
- 5- Acetonitrile
- 6- Methylene chloride
- 7- 2-Methyl-2-Propanol
- 8- MTBE
- 9- Hexane
- 10- 1-Propanol
- 11- 2-Butanone
- 12- Ethyl acetate
- 13- 2-Butanol
- 14- Tetrahydrofuran
- 15- Cyclohexane
- 16- Isopropylacetate
- 17- Heptane
- 18- 2-Ethoxyethanol
- 19- MIBK
- 20- Toluene
- 21- 1-Pentanol
- 22- DMF
- 23- Ethyl benzene
- 24- m,p-Xylene
- 25- o-Xylene
- 26- Dimethyl sulfoxide



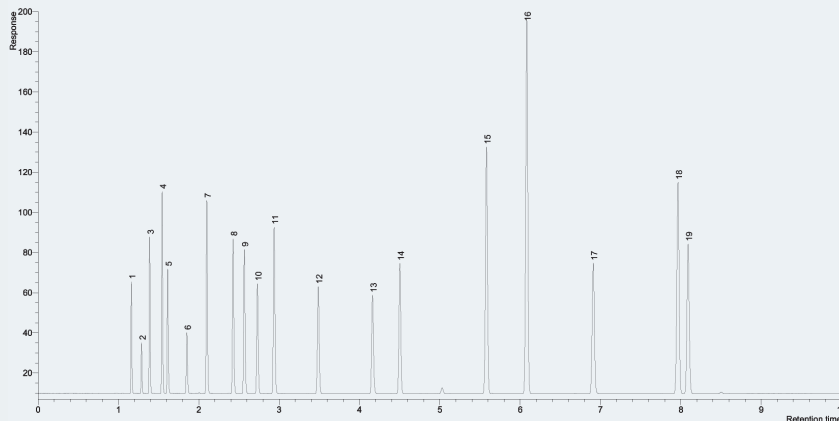
TKG 1232

COMMON INDUSTRIAL SOLVENTS

Column: **TRB-1**, P/N TR-111033
 Size: 30m x 0.32mm x 1.0µm
 Injection: 0.01µL Neat solvents, split 1:300, 200°C
 Carrier Gas: H2, 7 psi
 Program temperature: 30°C @ 8°C/min to 140°C(2min)
 Detector: FID, 200°C

Peaks

- 1- Methanol
- 2- Methyl formate
- 3- Ethanol
- 4- Acetone
- 5- Isopropanol
- 6- Dichloromethane
- 7- n-Propanol
- 8- Methyl ethyl ketone
- 9- Sec-Butanol
- 10- Ethyl acetate
- 11- Isobutanol
- 12- Isopropyl acetate
- 13- Nitropropane
- 14- 1,4-Dioxane
- 15- Toluene
- 16- Mesityl oxide
- 17- Diacetone alcohol
- 18- m-Xylene
- 19- Cyclohexanone



TKG 1234

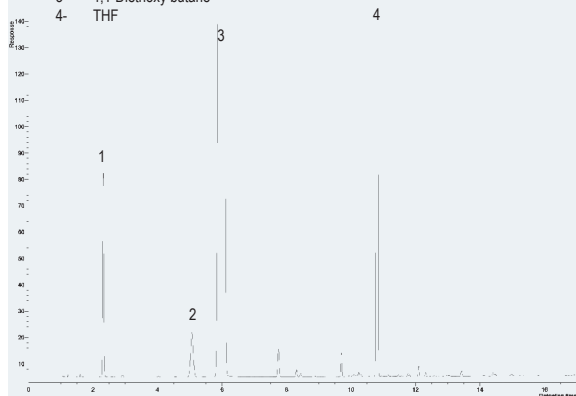
REACTION PRODUCTS OF 1,1-DIETHOXY BUTANE

Column: **TRB-624**, P/N TR-603035
 Size: 30m x 0.53mm x 3.0µm
 Injection: 0.5 µl, split 1:5, 260°C
 Carrier Gas: He, 6 psi
 Program temperature: 40°C (6min) @ 30°C/min to 200°C (5min)
 Detector: FID, 260°C

Chromatogram provided by Ion Aguirre from *Escuela Superior de Ingeniería de Bilbao (Spain)*

Peak Name

- 1- Butanal
- 2- Ethanol
- 3- 1,1-Diethoxy butane
- 4- THF



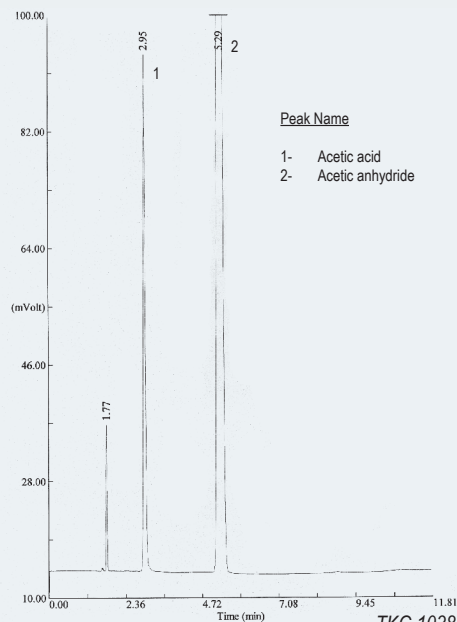
TKG 1238

SEPARATION OF ACETIC ACID AND ACETIC ANHYDRIDE

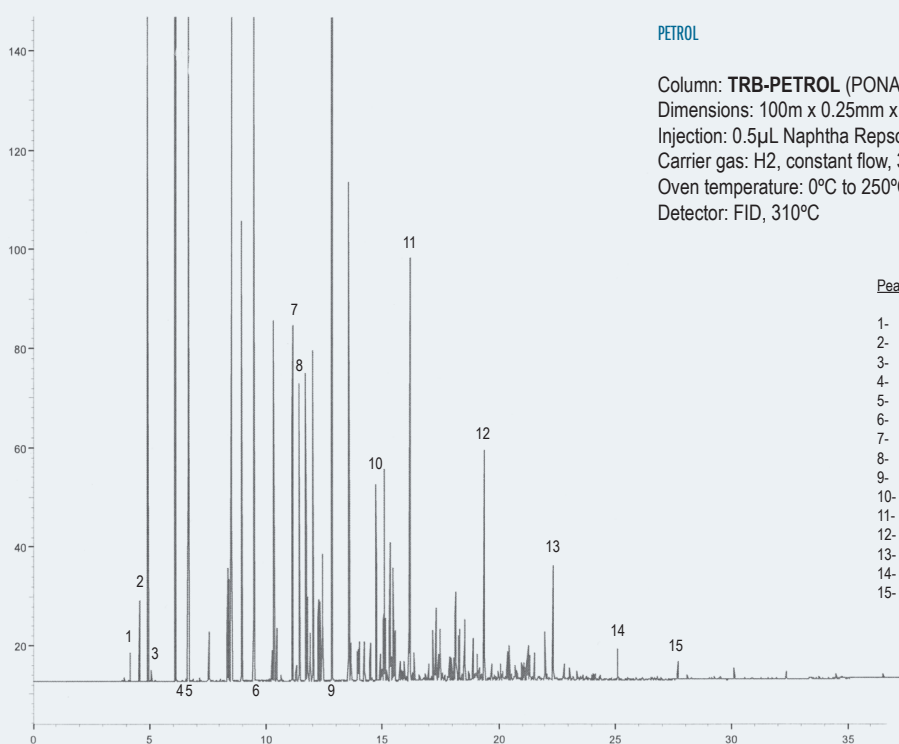
Column: **TRB-1**, P/N TR-115035
 Dimensions: 30m x 0.53mm x 5.0 µm
 Injection: wet needle (solvent mixture), split 1:100, 200°C
 Carrier gas: H₂, constant pressure 3 psi (20.7 KPa).
 Oven program: 90°C
 Detector: FID, 260°C

Peak Name

- 1- Acetic acid
- 2- Acetic anhydride



TKG 1038



PETROL

Column: **TRB-PETROL** (PONA Column), P/N TR-110592
 Dimensions: 100m x 0.25mm x 0.50µm
 Injection: 0.5µL Naphtha Repsol, split 1:250, 250°C
 Carrier gas: H₂, constant flow, 30 psi (206.7 KPa)
 Oven temperature: 0°C to 250°C
 Detector: FID, 310°C

Peak Name

- 1- Propane
- 2- Isobutane
- 3- Butane
- 4- Isopentane
- 5- n-Pentane
- 6- n-Hexane
- 7- Benzene
- 8- Cyclohexane
- 9- n-Heptane
- 10- Toluene
- 11- n-Octane
- 12- n-Nonane
- 13- n-Decane
- 14- n-Undecane
- 15- n-Dodecane

TKG 1267

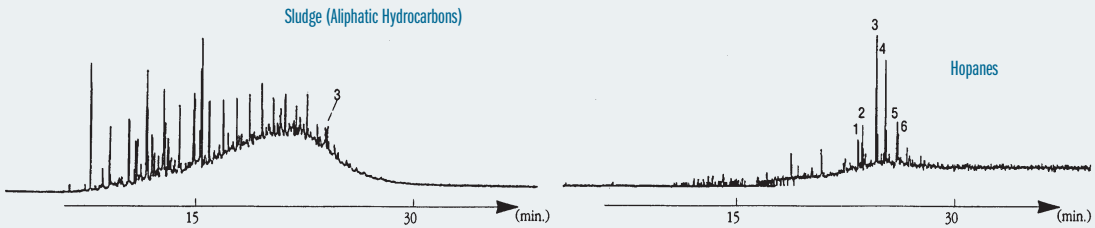
ANALYSIS OF SOIL AND SLUDGE OF A WATER-TREATMENT PLANT

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

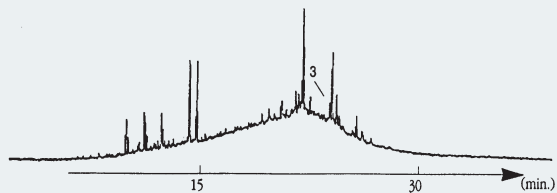
- 1- Tg
- 2- Tm
- 3- C29 ab
- 4- C30 ab
- 5- C31 ab (22S)
- 6- C31 ab (22R)

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



TKG 1154

Soil + Sludge (Aliphatic Hydrocarbons)

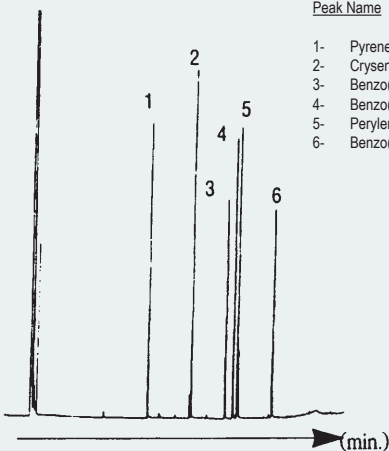


ANALYSIS OF POLYCYCLIC AROMATIC HYDROCARBONS

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

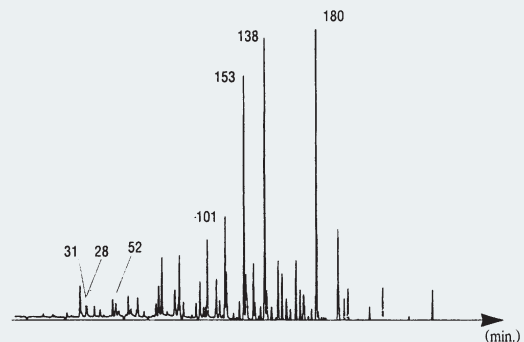


TKG 1156

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.

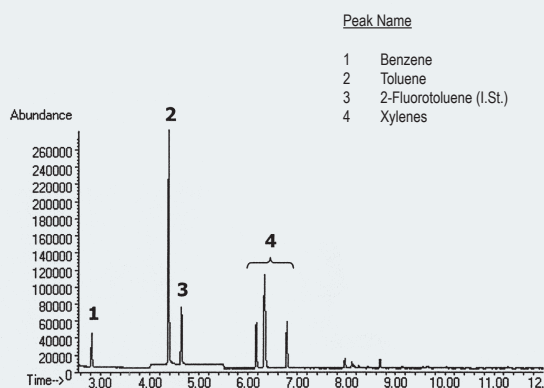


TKG 1157

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.

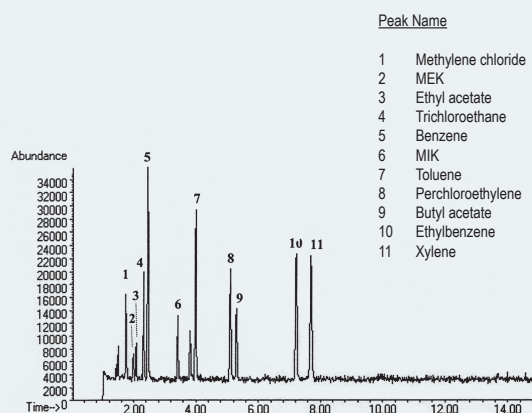


TKG 1014

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

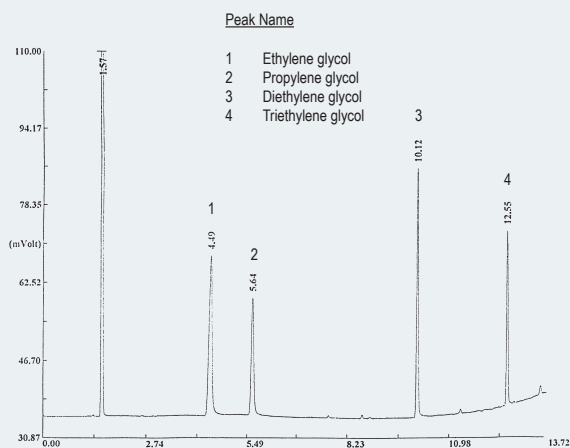
Chromatogram provided by Bàrbara Bagó and Lluís Comellas from Institut Químic de Sarrià (IQS), Barcelona.



TKG 1015

GLYCOLS

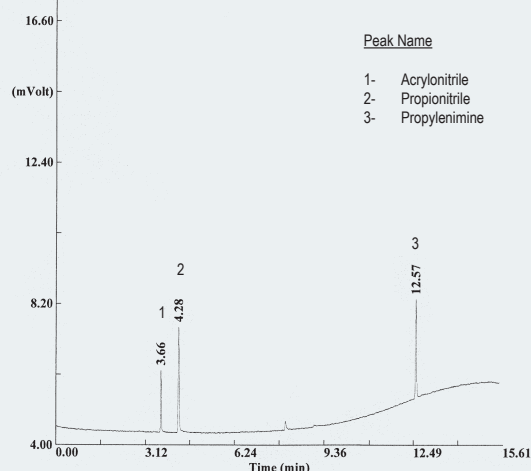
Column: **TRB-F50**, P/N TR-571015
 Dimensions: 15m x 0.53mm x 1.0 μ m
 Injection: 0.4 μ L Glycols mixture in Methanol, split 1:50, 15ng/comp on column, 250°C
 Carrier gas: H₂, constant pressure 1.5 psi (10.3 KPa), 40.15 cm/s (40°C)
 Oven program: 40°C (5min) to 210°C/(10min) @ 15°C/min
 Detector: FID,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

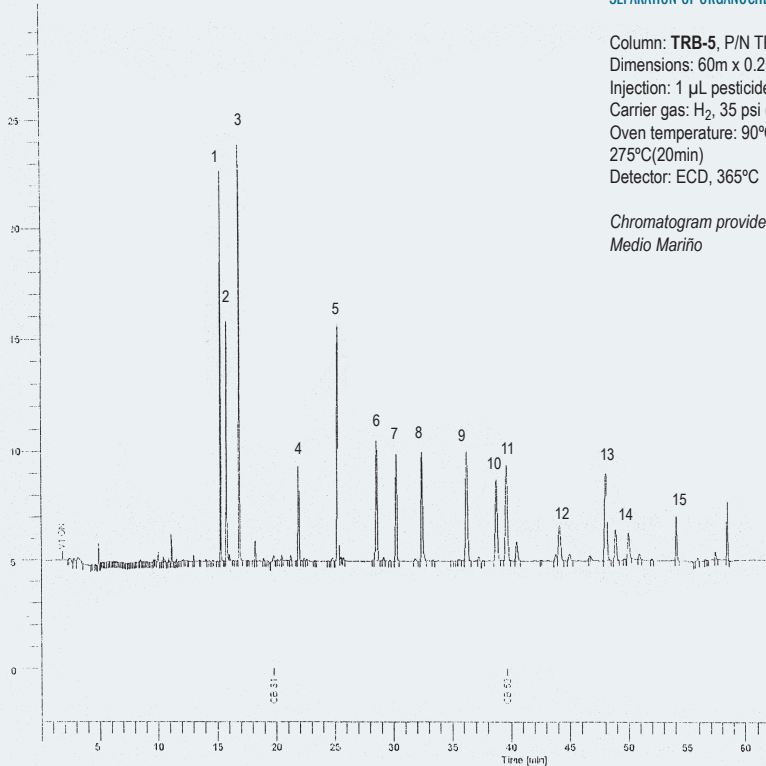


TKG 1020

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

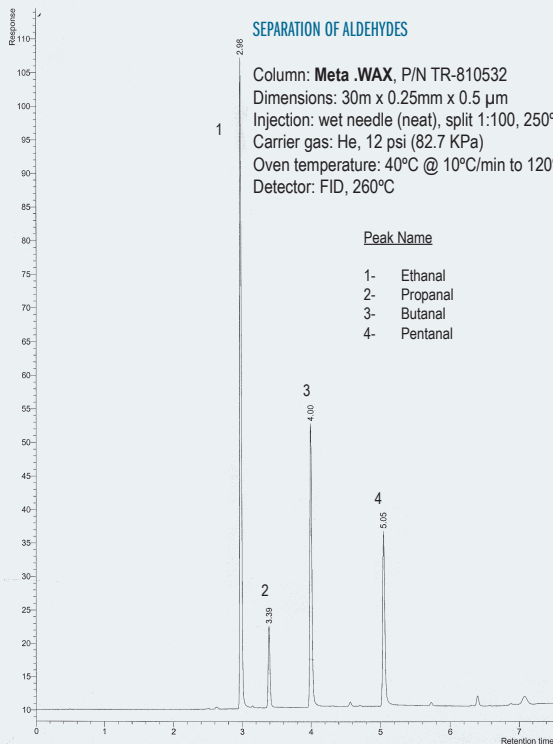
TKG 1017

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



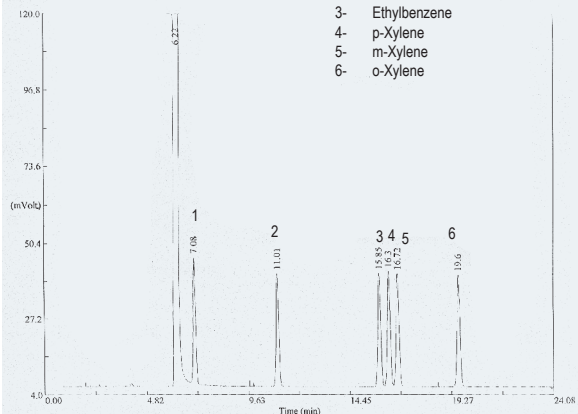
TKG 1018

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

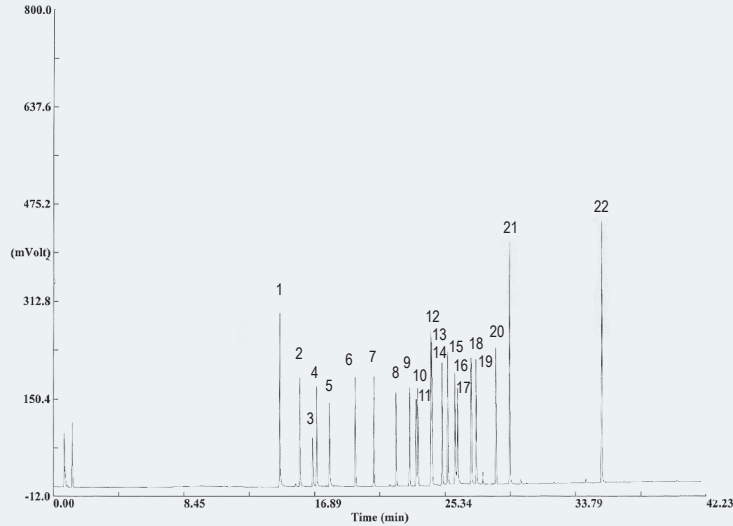


TKG 1019

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



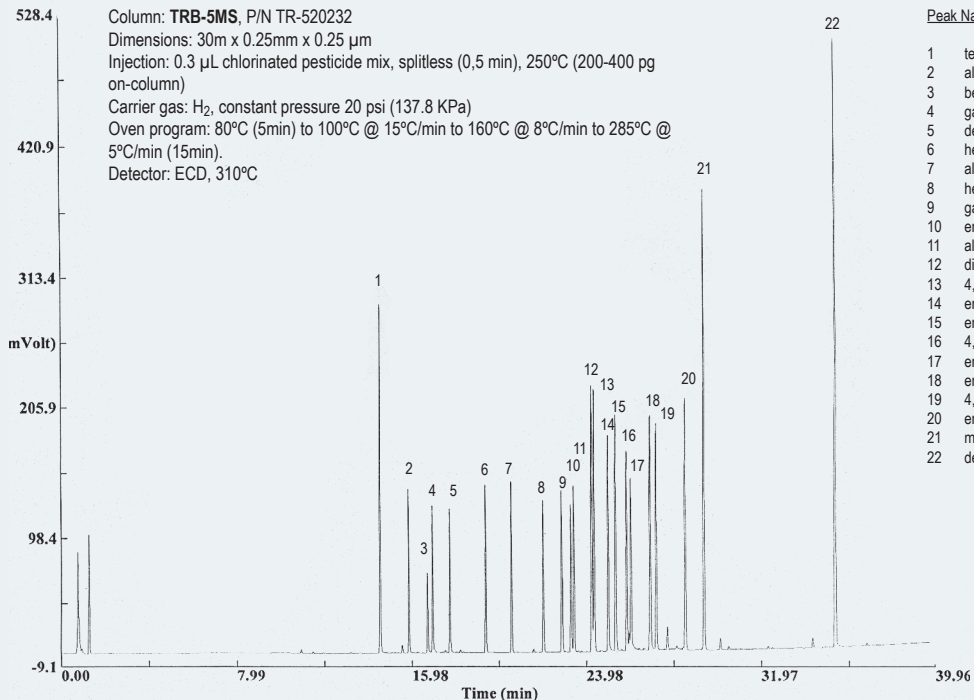
TKG 1021

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

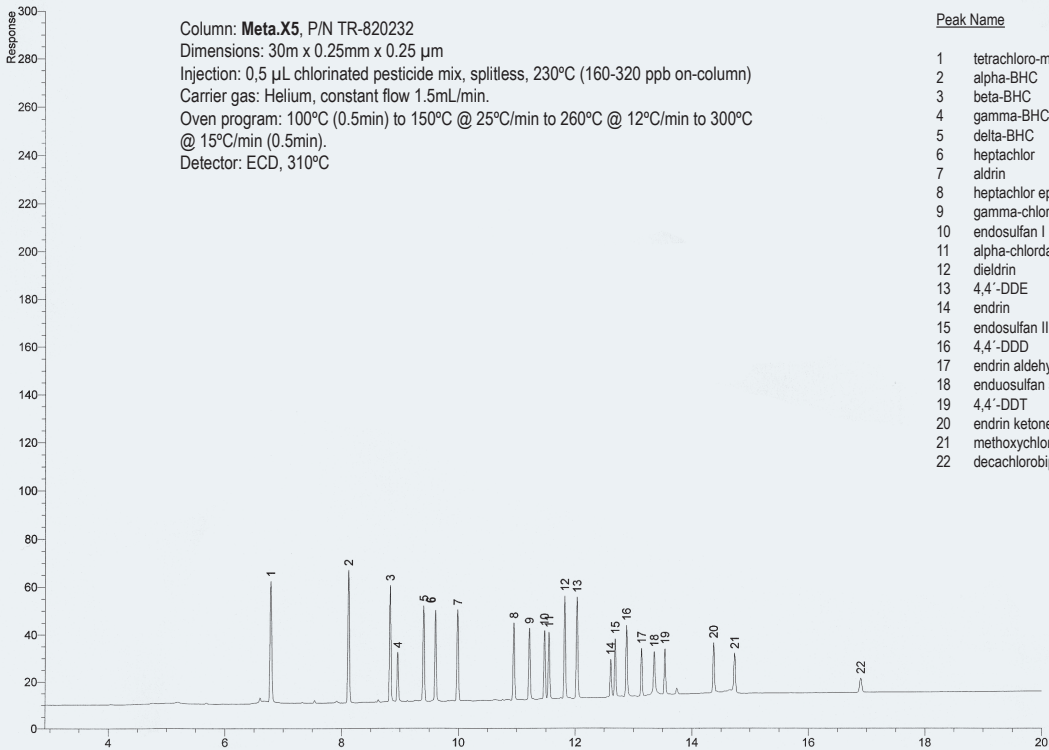
Peak Name

- 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

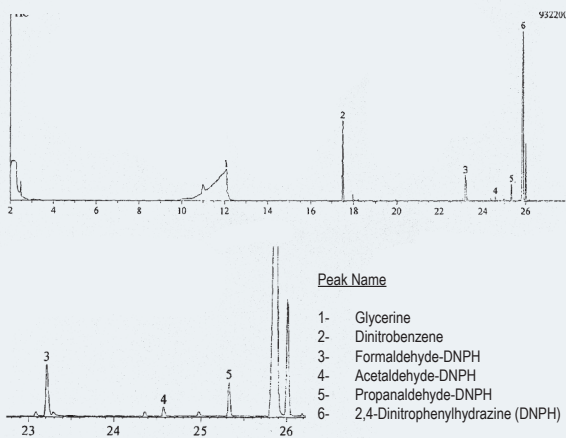
CHLORINATED PESTICIDES



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)

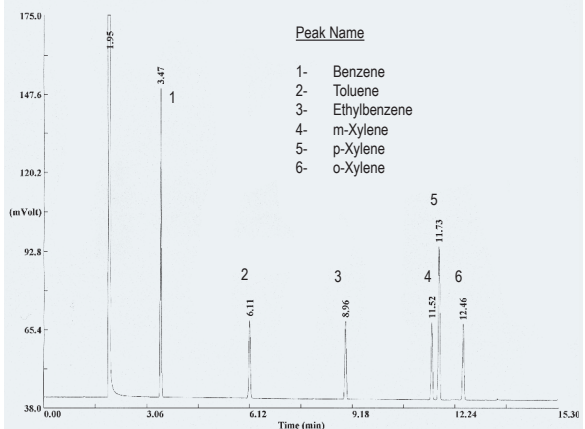
Chromatogram provided by F. Sisteré from IUCT



TKG 1036

SEPARATION OF BTEX ISOMERS

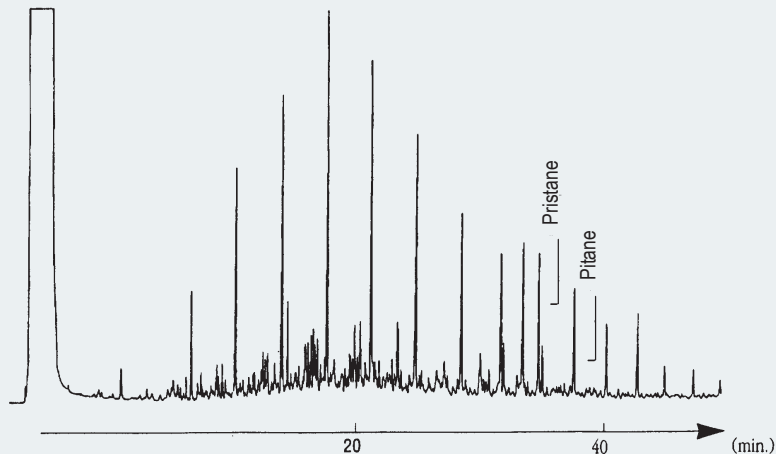
Column: **TRB-624**, P/N TR-601833
 Dimensions: 30m x 0.32mm x 1.8 µm
 Injection: 1 µL BTEX sample (50 ppm on column), 260°C
 Carrier gas: H₂, 6.9 psi (47.9 KPa)
 Oven temperature: 40°C @ 8°C/min to 240°C(10min)
 Detector: FID, 260°C



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

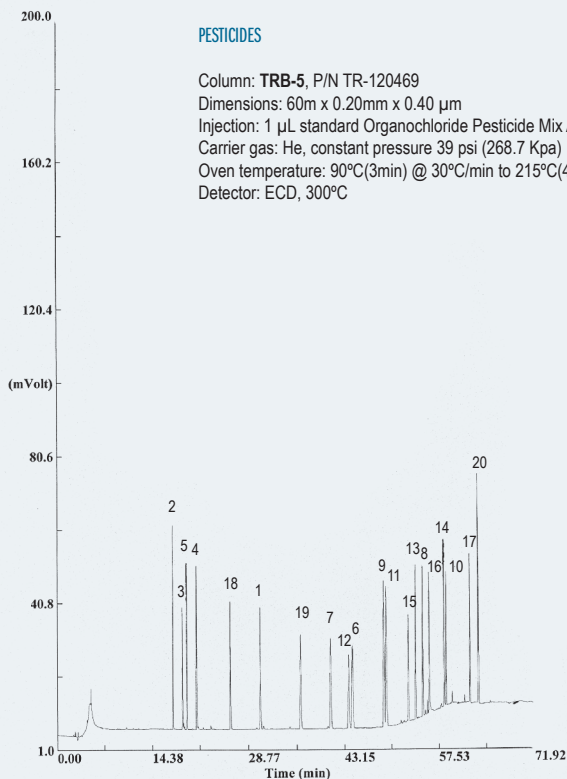


Chromatogram provided by Dr. Caixach from Laboratori Espectrometria de Masses, CSIC, Barcelona

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



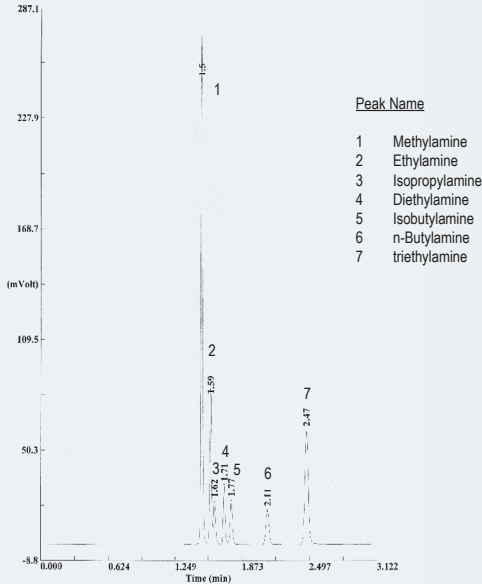
Peak Name

- 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

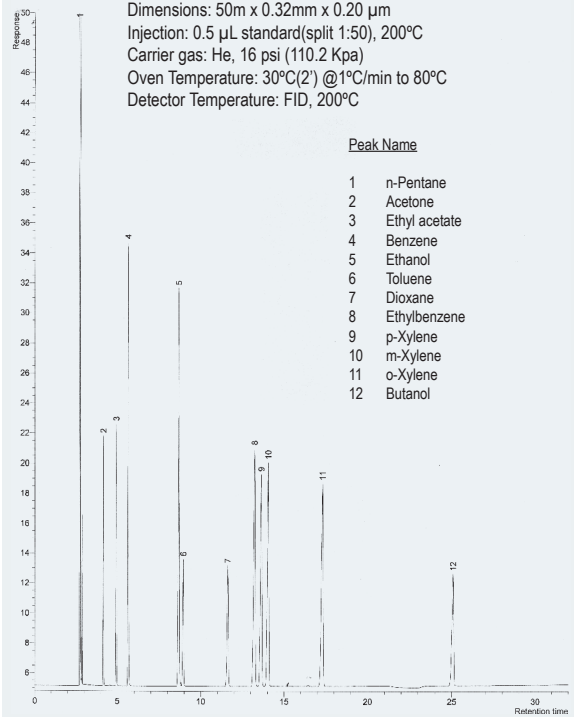


Peak Name	Retention Time (min)
1	Methylamine
2	Ethylamine
3	Isopropylamine
4	Diethylamine
5	Isobutylamine
6	n-Butylamine
7	triethylamine

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

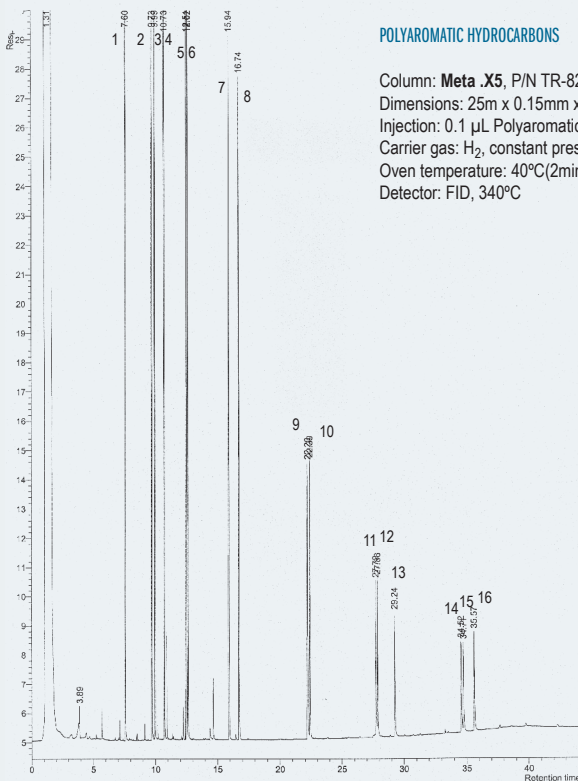


Peak Name	Retention Time (min)
1	n-Pentane
2	Acetone
3	Ethyl acetate
4	Benzene
5	Ethanol
6	Toluene
7	Dioxane
8	Ethylbenzene
9	p-Xylene
10	m-Xylene
11	o-Xylene
12	Butanol

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



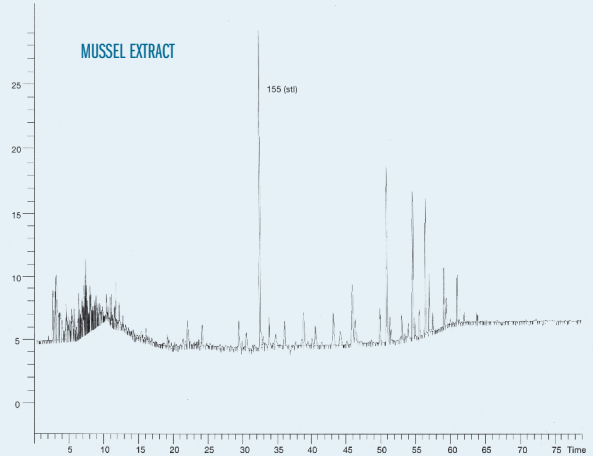
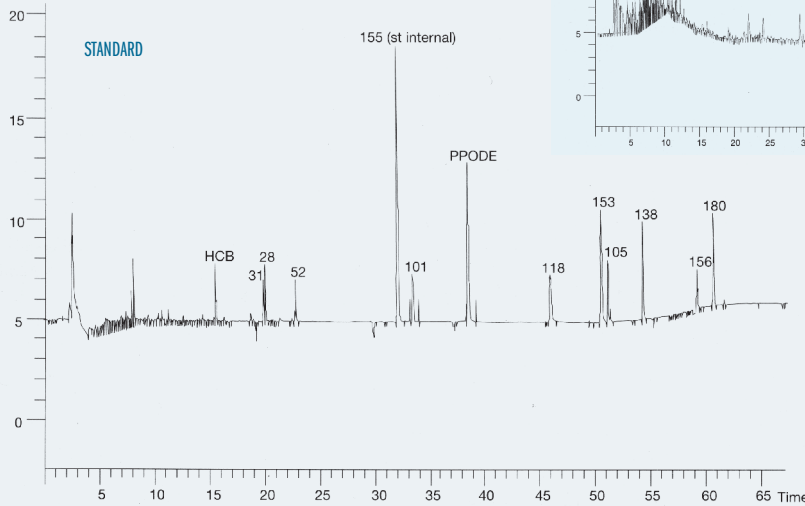
Peak Name	Retention Time (min)
1	Naphthalene
2	Acenaphthylene
3	acenaphthene
4	Fluorene
5	Phenanthrene
6	Anthracene
7	Fluoranthene
8	Pyrene
9	Benzo(a)anthracene
10	Chrysene
11	Benzo(b)fluoranthene
12	Benzo(k)fluoranthene
13	Benzo(a)pyrene
14	Indeno(1,2,3)pyrene
15	Dibenzo(a,h)anthracene
16	Benzo(g,h,i)perylene

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.



TKG 1064

TKG 1063

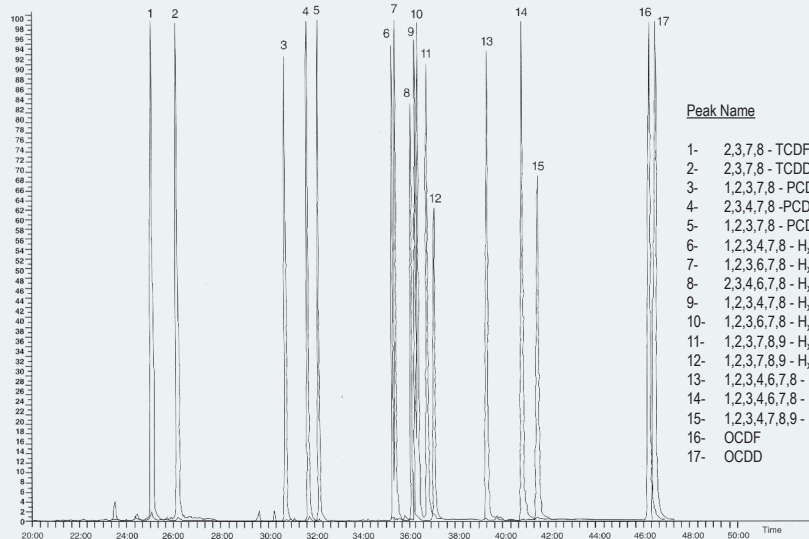
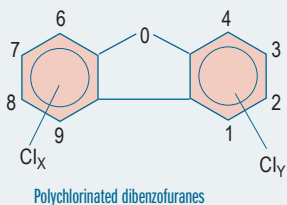
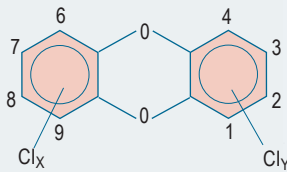
DIOXINES AND FURANES SEPARATION

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

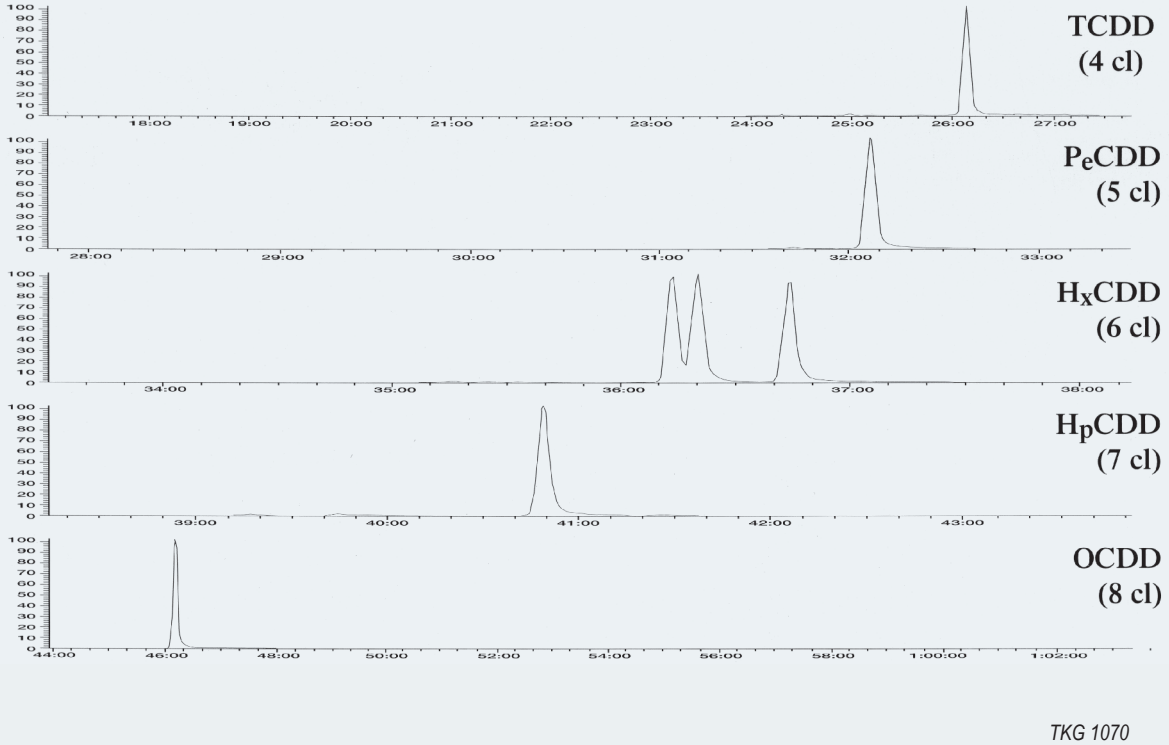


Peak Name

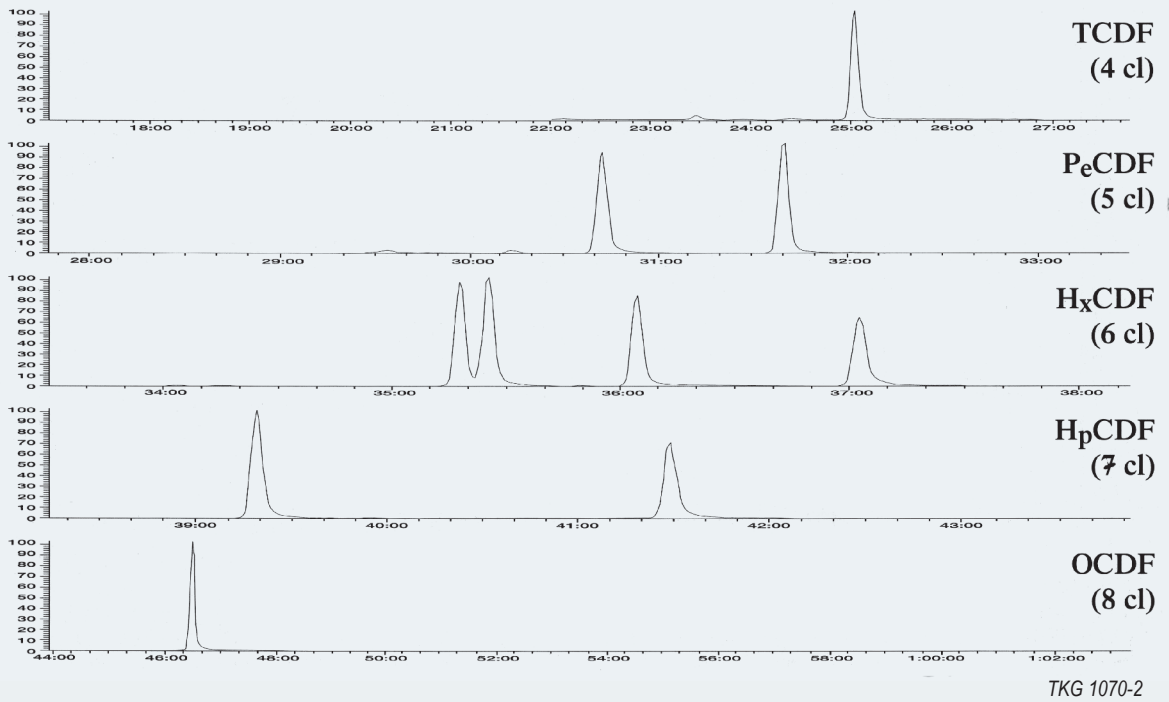
- 1- 2,3,7,8 - TCDF
- 2- 2,3,7,8 - TCDD
- 3- 1,2,3,7,8 - PCDF
- 4- 2,3,4,7,8 - PCDF
- 5- 1,2,3,7,8 - PCDD
- 6- 1,2,3,4,7,8 - H₂CDF
- 7- 1,2,3,6,7,8 - H₂CDF
- 8- 2,3,4,6,7,8 - H₂CDF
- 9- 1,2,3,4,7,8 - H₂CDD
- 10- 1,2,3,6,7,8 - H₂CDD
- 11- 1,2,3,7,8,9 - H₂CDD
- 12- 1,2,3,7,8,9 - H₂CDF
- 13- 1,2,3,4,6,7,8 - H₃CDF
- 14- 1,2,3,4,6,7,8 - H₃CDD
- 15- 1,2,3,4,7,8,9 - H₃CDF
- 16- OCDF
- 17- OCDD

TKG 1069

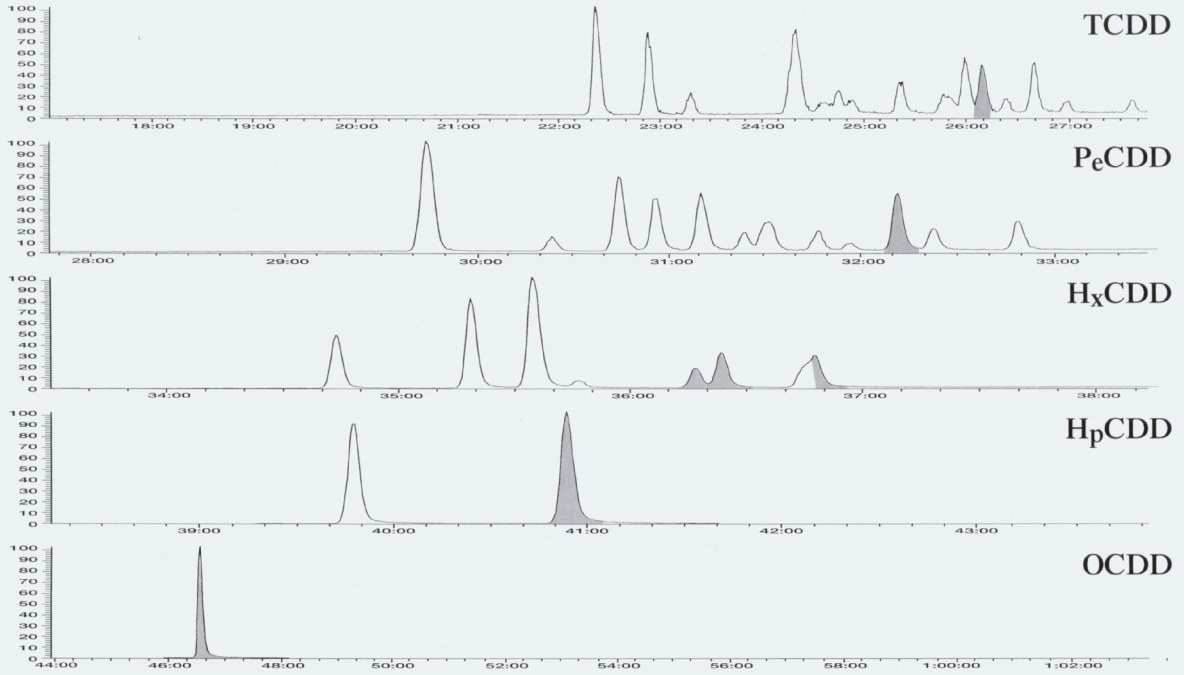
TRB-5MS DIOXINES



TRB-5MS FURANES

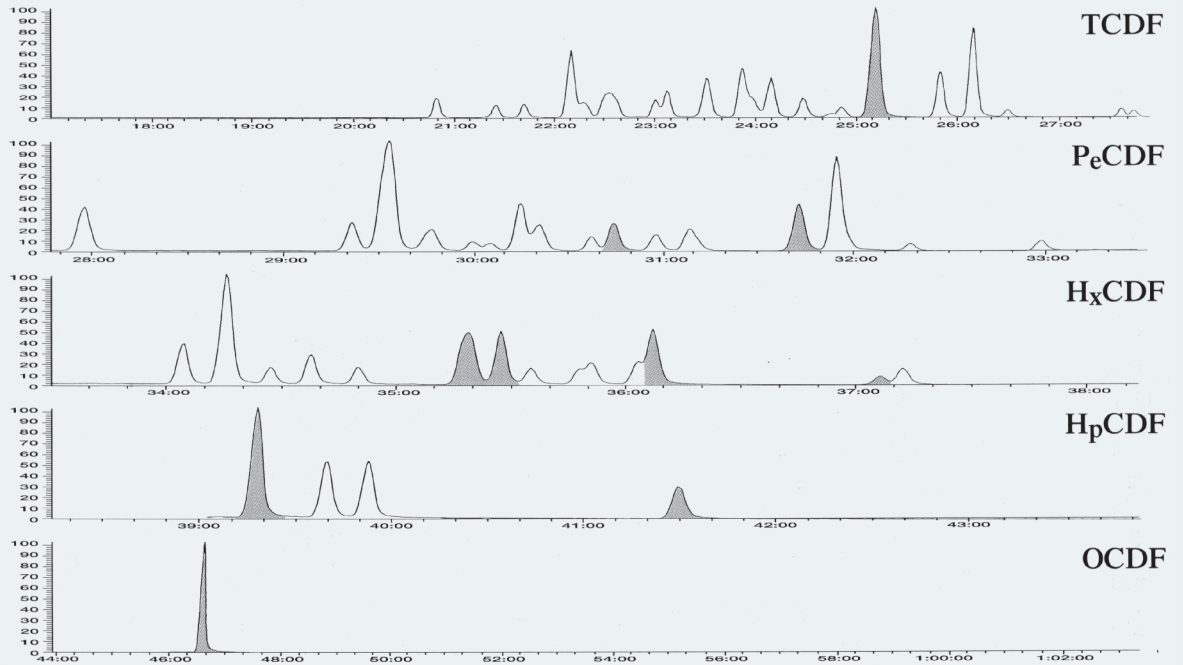


TRB-5MS DIOXINES. EMISION SAMPLE



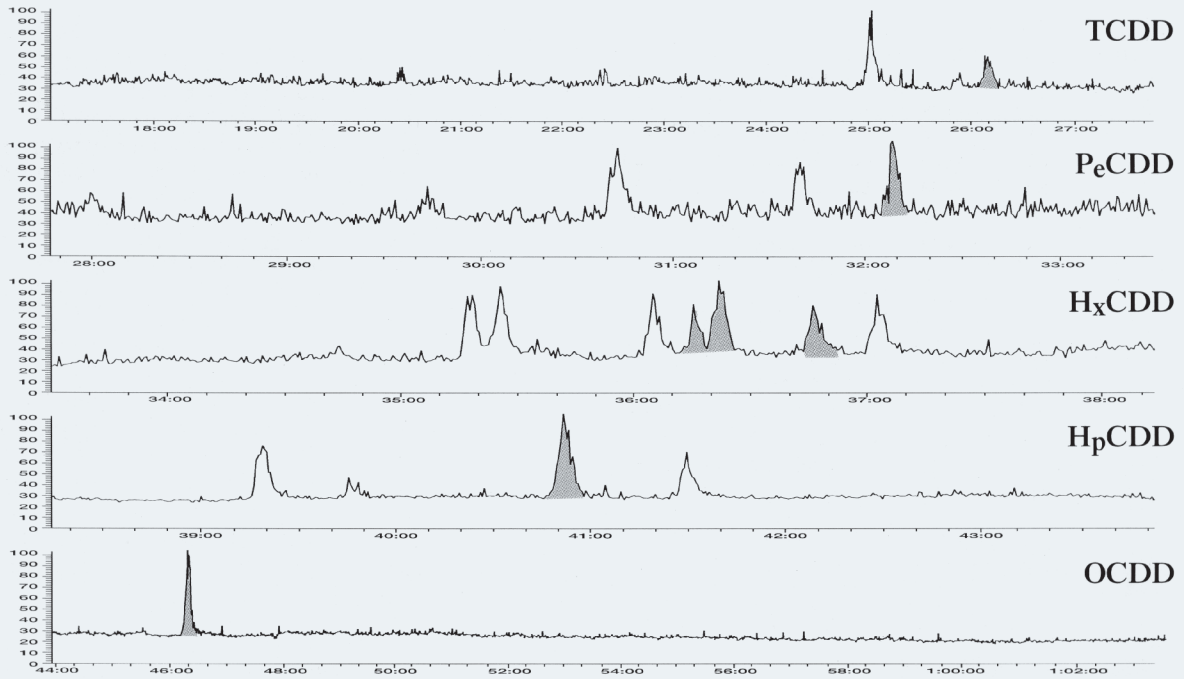
TKG 1071-2

TRB-5MS FURANES. EMISION SAMPLE



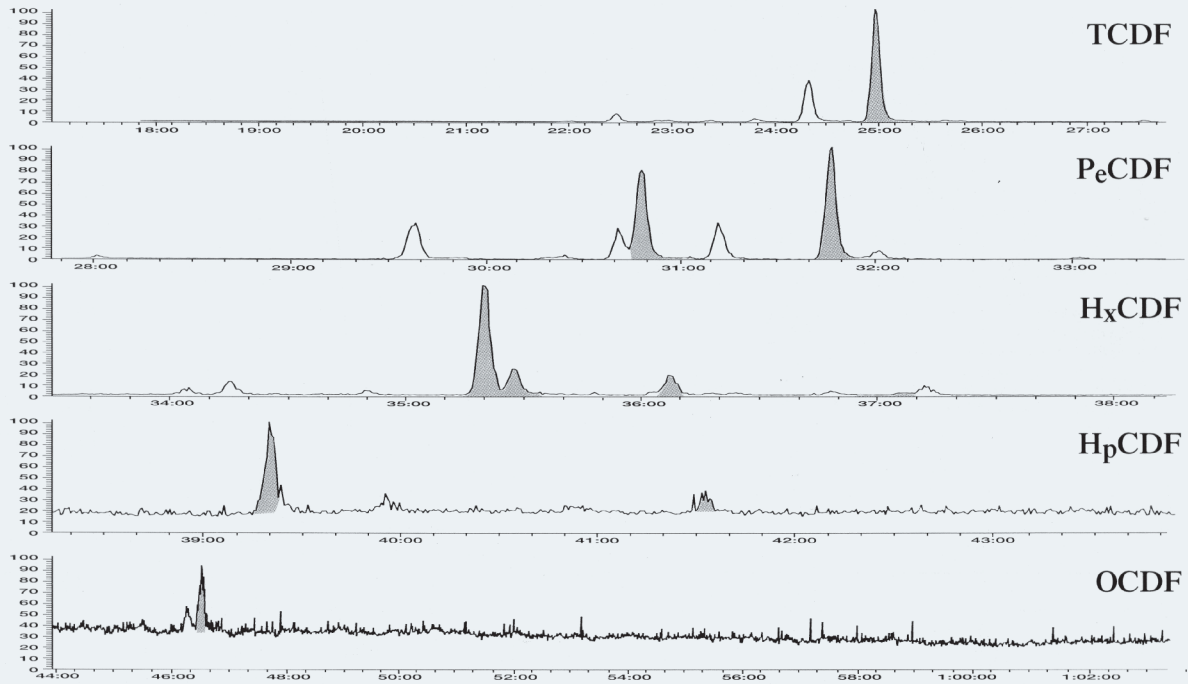
TKG 1071

TRB-5MS DIOXINES - FOOD SAMPLE

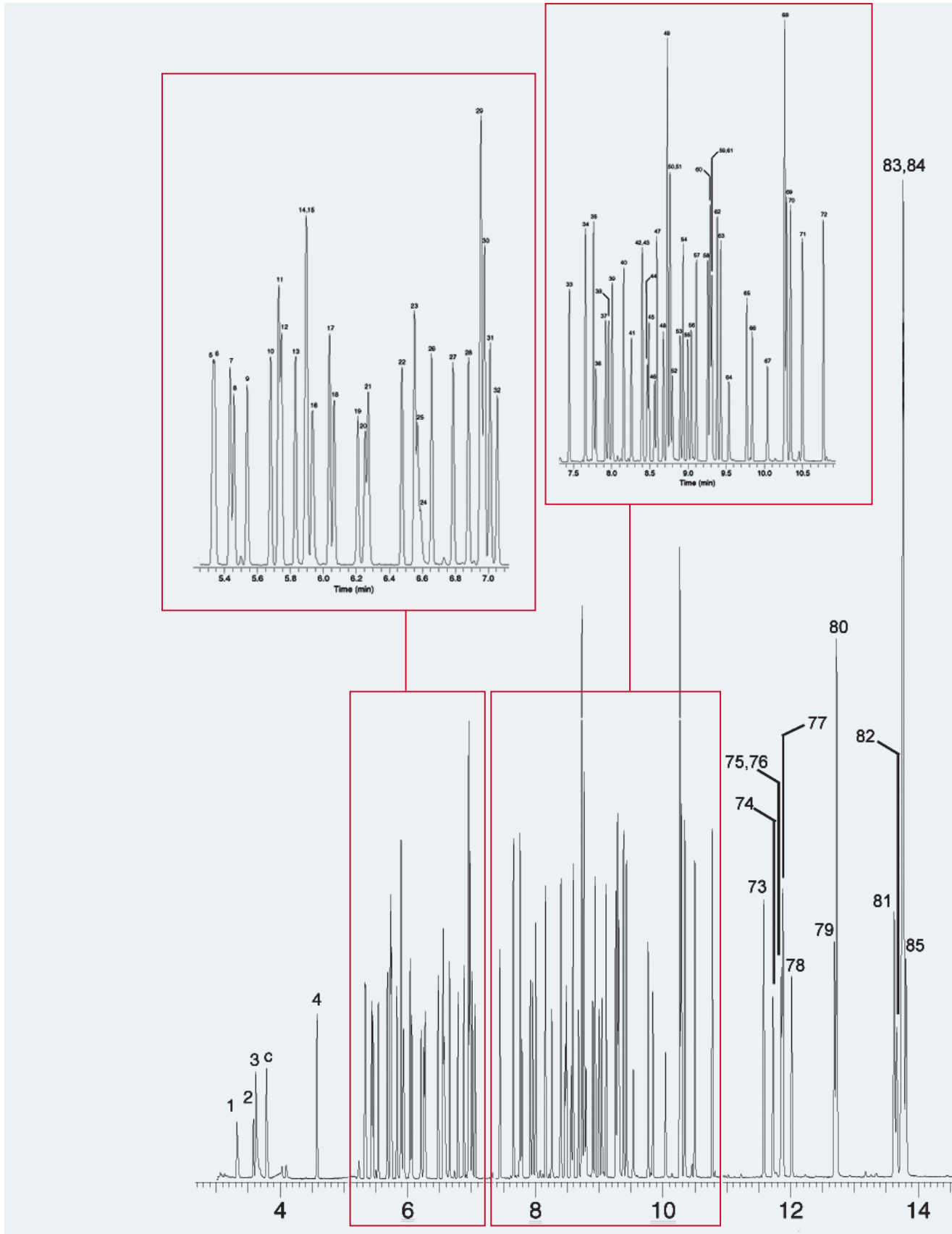


TKG 1072

TRB-5MS FURANES - FOOD SAMPLE



TKG 1073

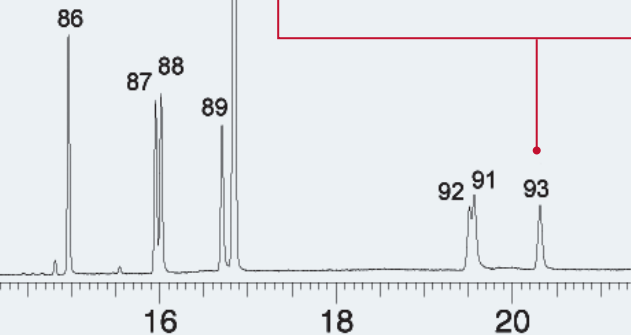
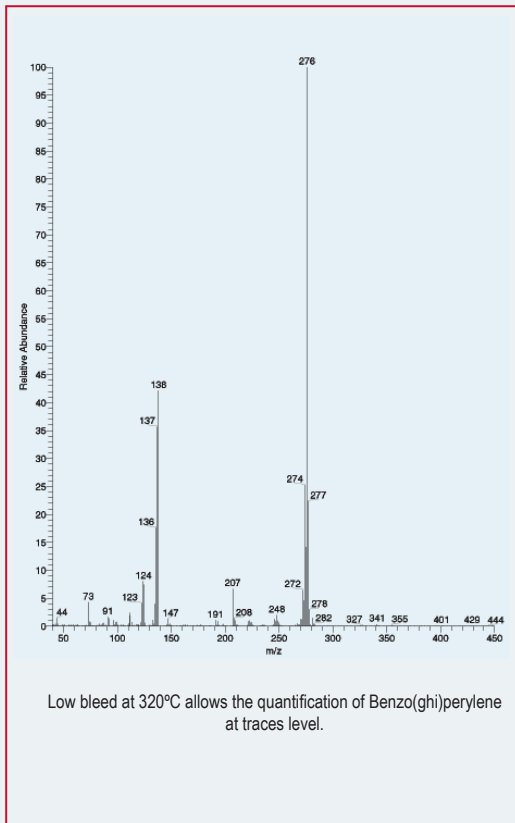


OPTIMUM RESOLUTION IN SEMIVOLATILE COMPOUNDS ANALYSIS

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

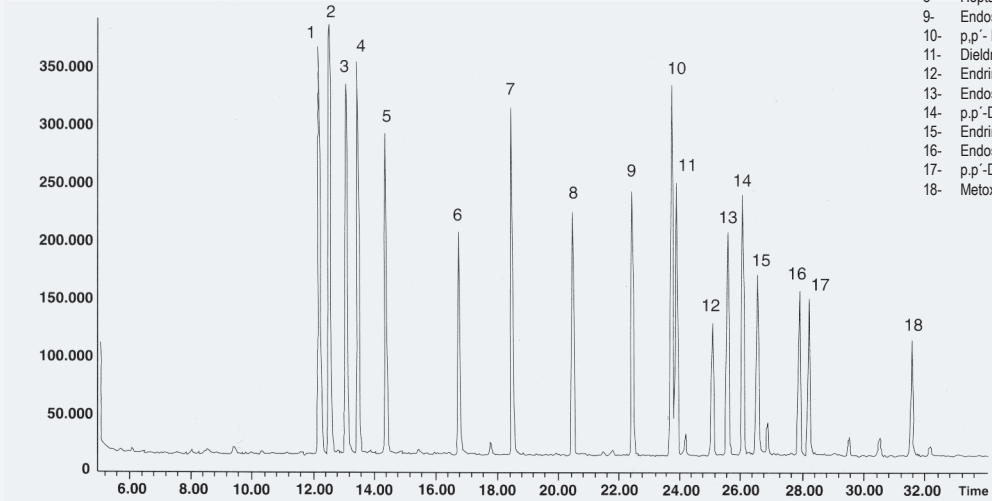
PESTICIDES ANALYSIS

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

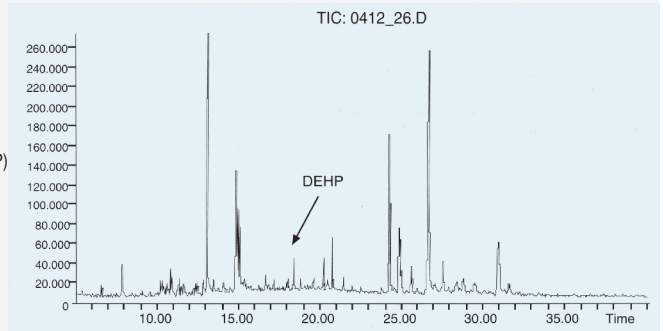
Chromatogram supplied by J. Diaz from Chromatography Department, IQS.



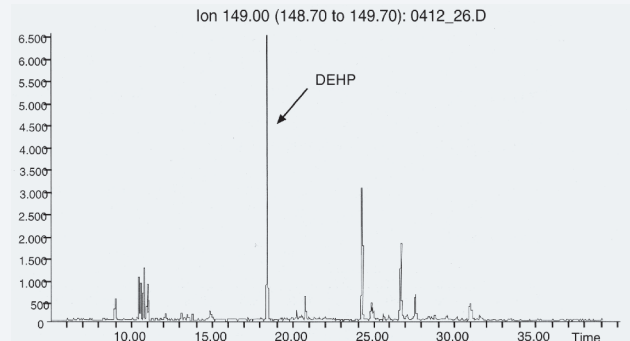
TKG 1078

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.



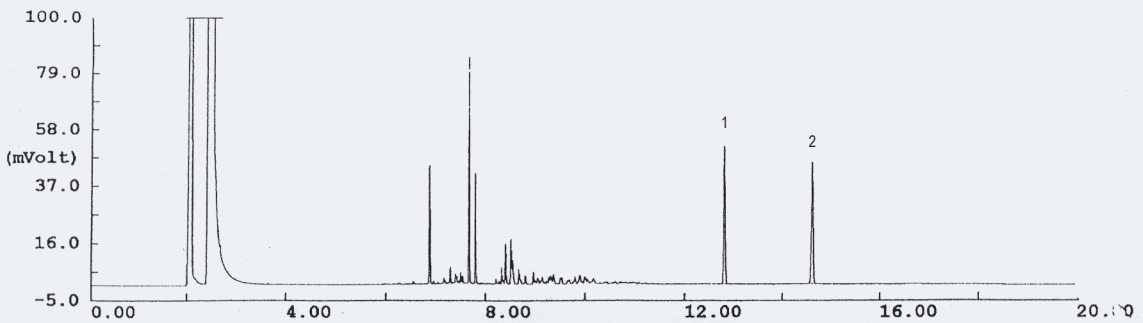
TKG 1080- TKG 1081

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



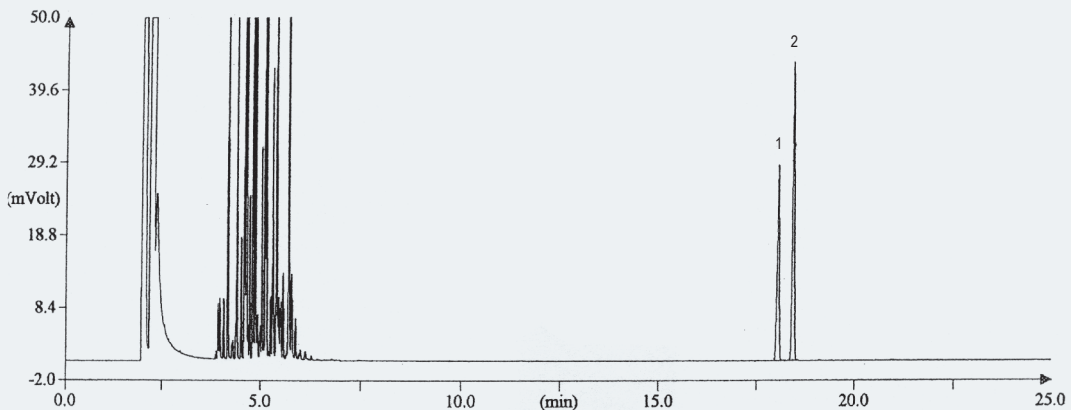
TKG 1084

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



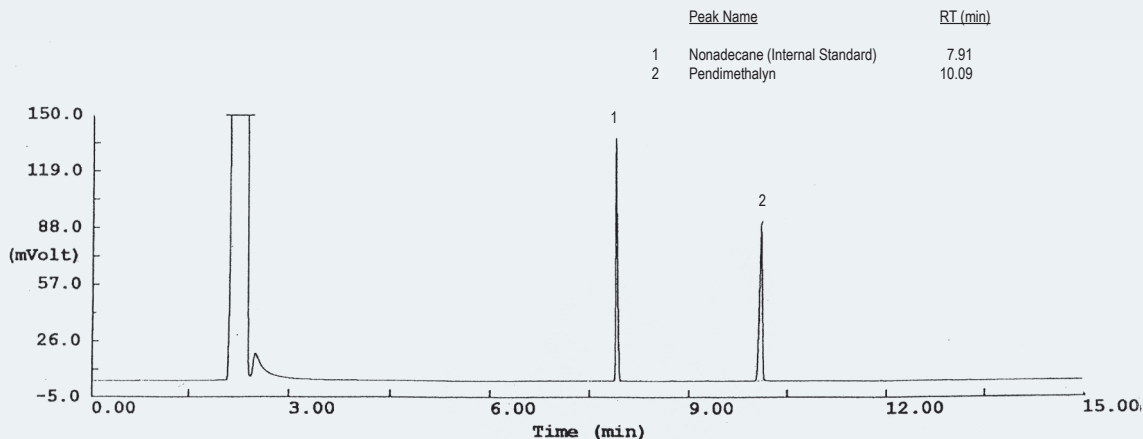
TKG 1085

SEPARATION OF PESTICIDES

Column: **Meta .X5**, P/N TR-820232
 Dimensions: 30m x 0.25mm x 0.25 µm
 Injection: 1 µL 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



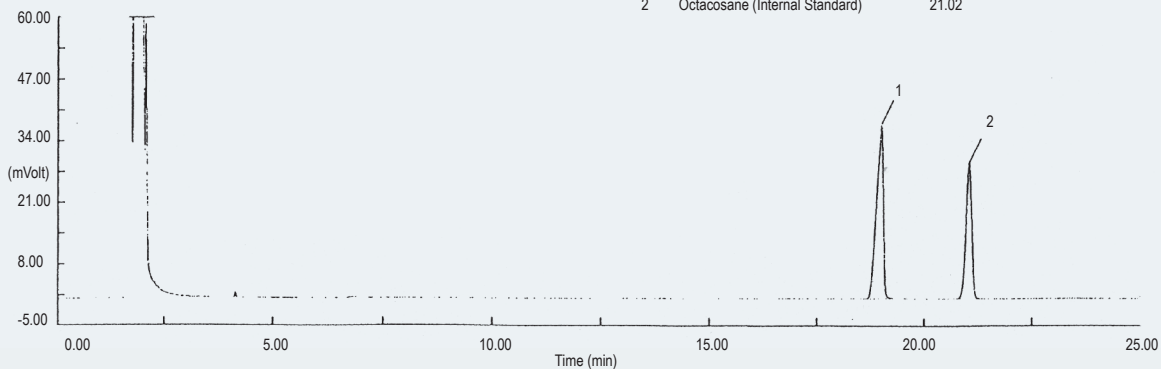
TKG 1086

SEPARATION OF PESTICIDES

Column: **Meta .X5**, P/N TR-820232
 Dimensions: 30m x 0.25mm x 0.25 µm
 Injection: 1 µL 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



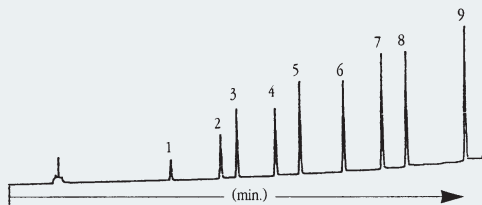
TKG 1087

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



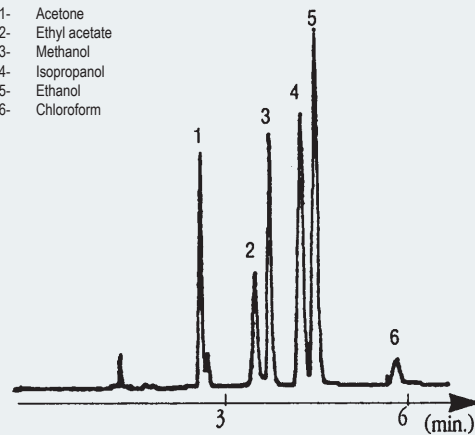
TKG 1148

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

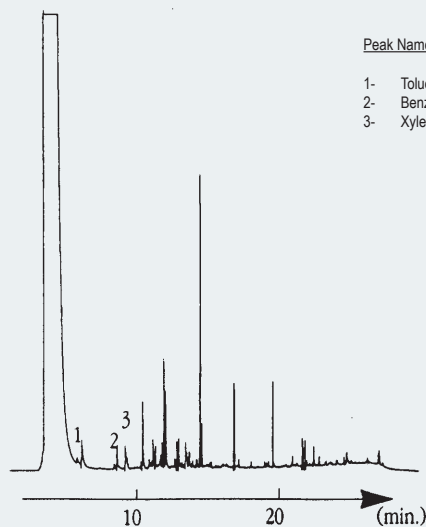
ANALYSIS OF FIRE RESIDUES (PYROLYSIS)

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

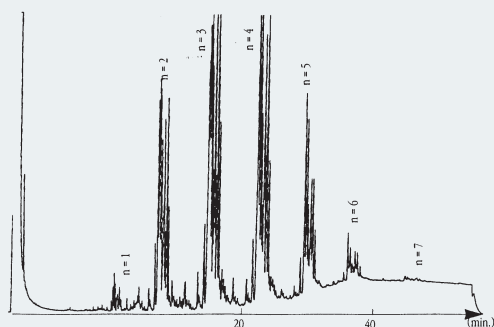


TKG 1150

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.

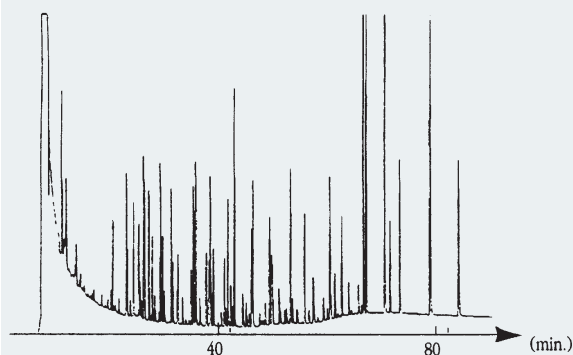


TKG 1151

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.



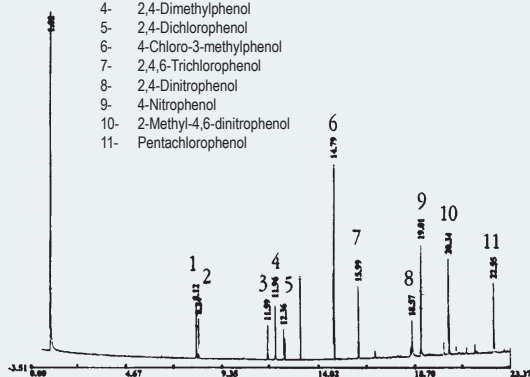
TKG 1152

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



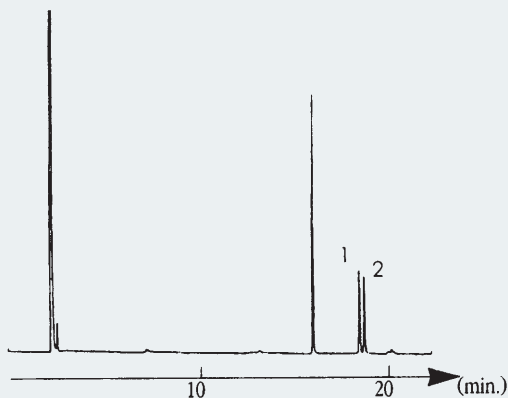
TKG 1153

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

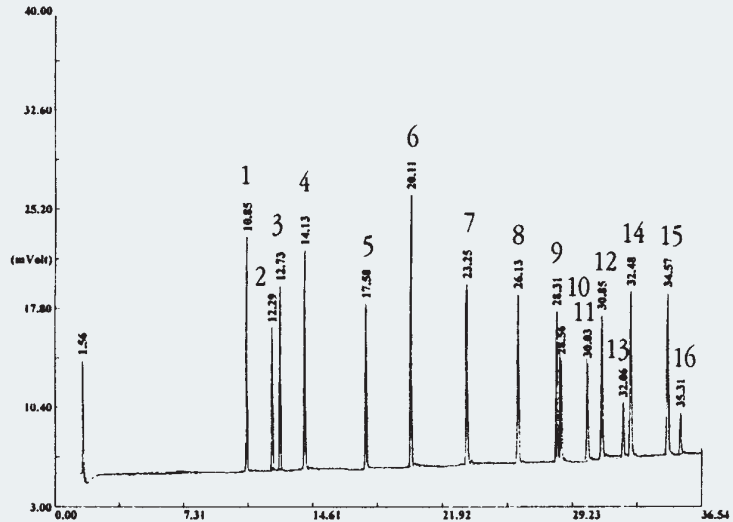


TKG 1155

ORGANOCHLORINATED PESTICIDES EPA 608

Column: **TRB-5**, P/N TR-120232
 Dimensions: 30m x 0.25mm x 0.25 μ m
 Injection: 0.8 μ L 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

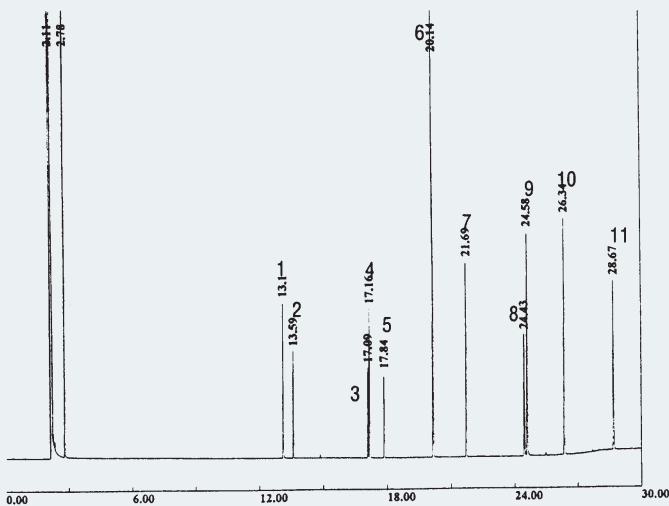
- Peak Name
- 1- α -BHC
 - 2- β -BHC
 - 3- γ -BHC
 - 4- δ -BHC
 - 5- heptachlor
 - 6- aldrin
 - 7- heptachlor epoxide
 - 8- endosulfan I
 - 9- dieldrin
 - 10- 4,4'-DDE
 - 11- endrin
 - 12- endosulfan II
 - 13- 4,4'-DDD
 - 14- endrin aldehyde
 - 15- endosulfan sulfate
 - 16- 4,4'-DDT



TKG 1149

SEPARATION OF PHENOLS EPA 604

Column: **TRB-5**, P/N TR-120469
 Dimensions: 60m x 0.20mm x 0.4 μ m
 Injection: 1 μ L 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)

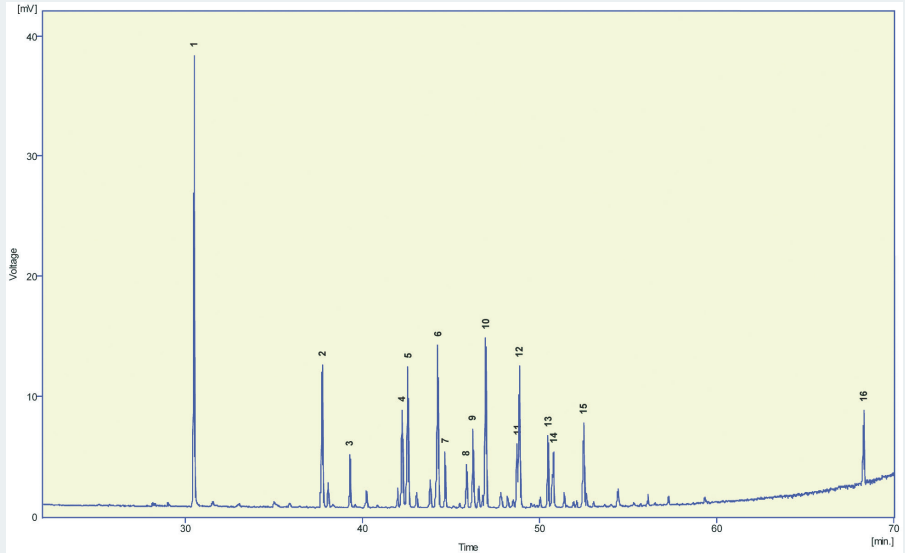
Carrier Gas: He, 1mL/min

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

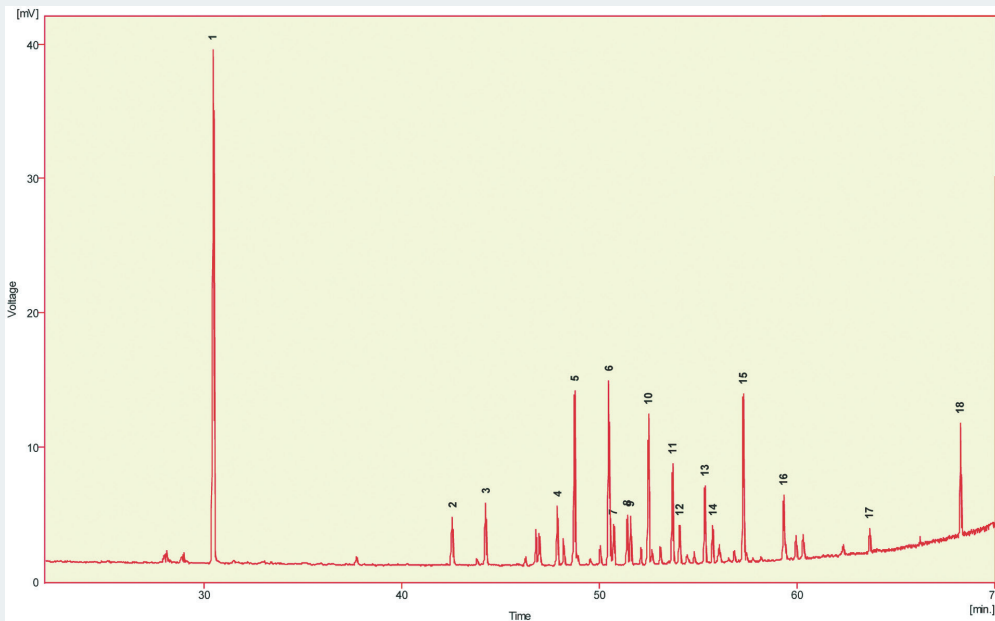
- 1 PCB30 (IS)
- 2 PCB52
- 3 PCB44
- 4 PCB70
- 5 PCB66 / PCB95
- 6 PCB101
- 7 PCB99
- 8 PCB97
- 9 PCB87
- 10 PCB110
- 11 PCB149
- 12 PCB118
- 13 PCB153
- 14 PCB105
- 15 PCB138
- 16 PCB209 (IS)



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

TKG 1224

AROCLOR 1260 IN ISOCTANE (10 PPM)

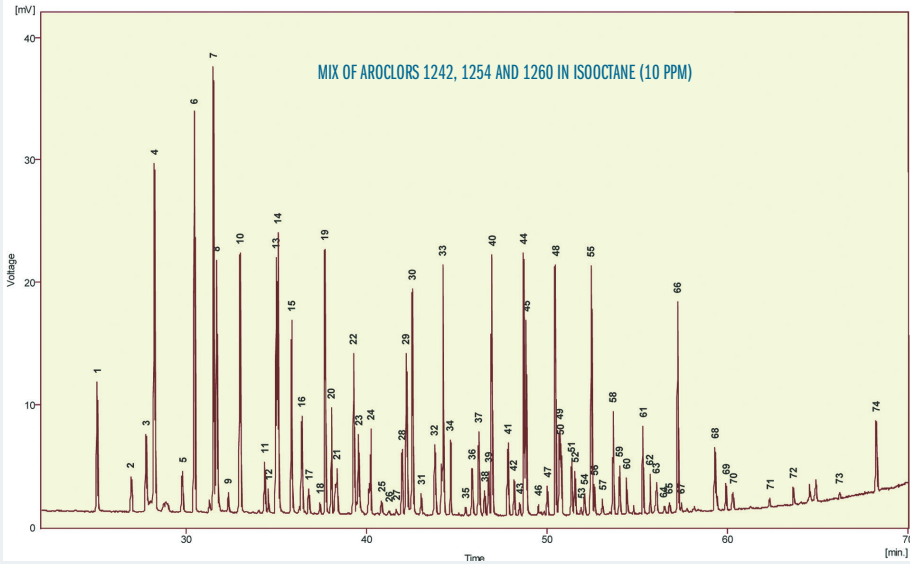


Peak Name

- 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)

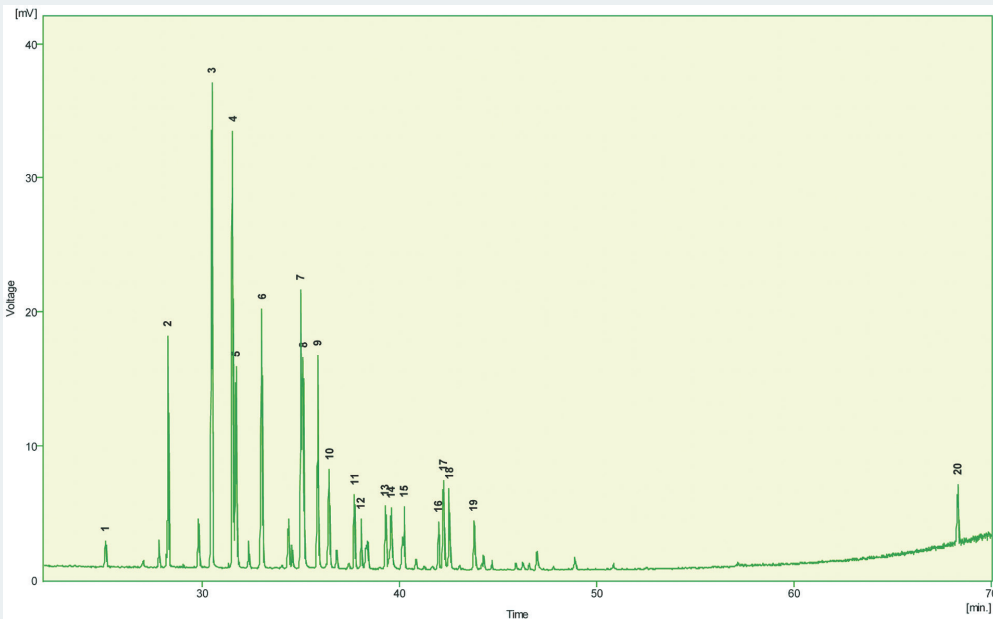
TKG 1225

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

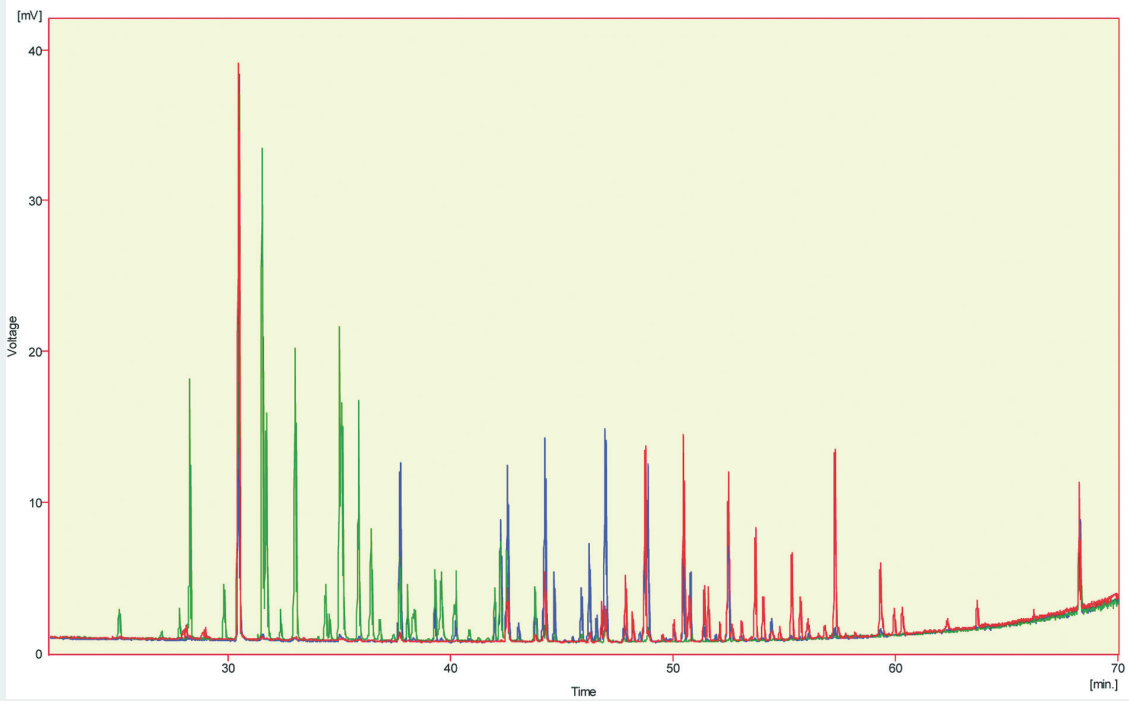
AROCLOR 1242 IN ISOCTANE (10 PPM)



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

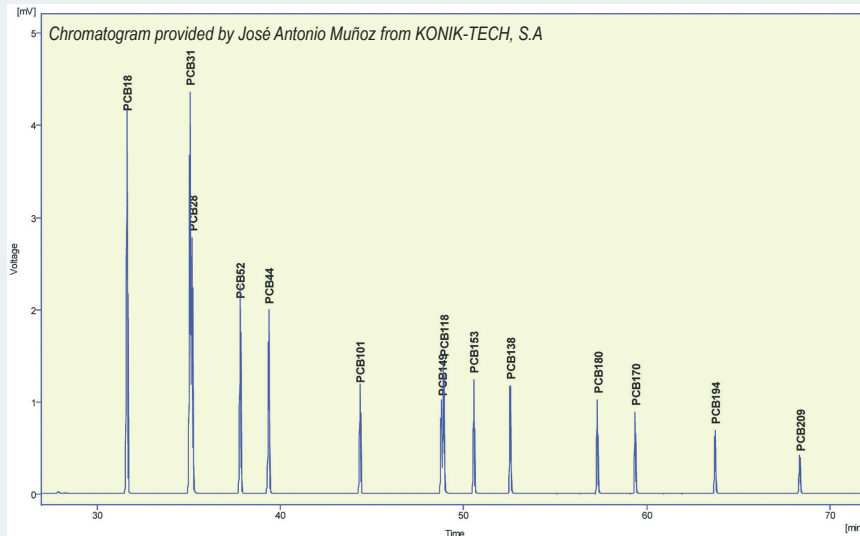
SUPERIMPOSED INDIVIDUAL AROCLORS 1242 (GREEN), 1254 (BLUE), 1260 (RED) IN ISOCTANE (10 PPM)



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.



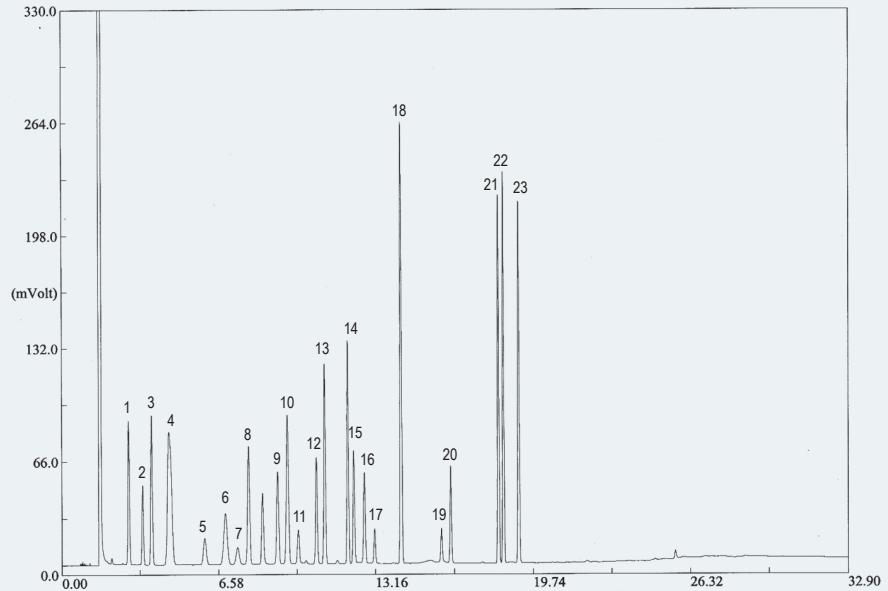
TKG 1222

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



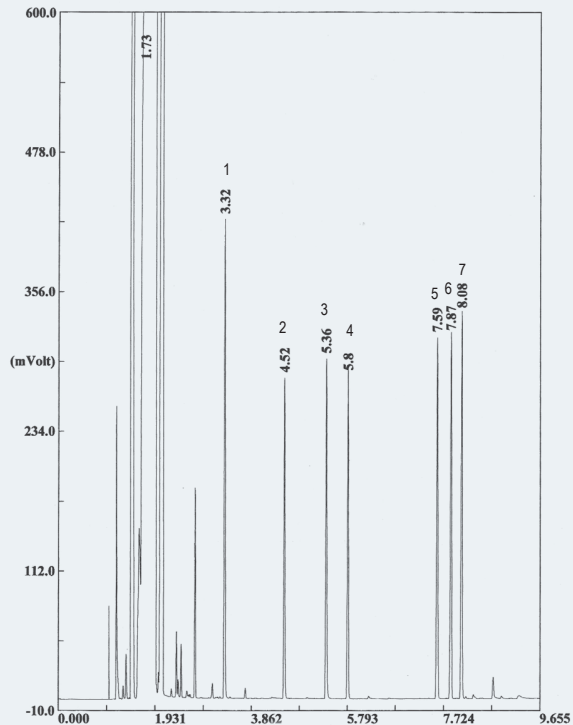
TKG 1205

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

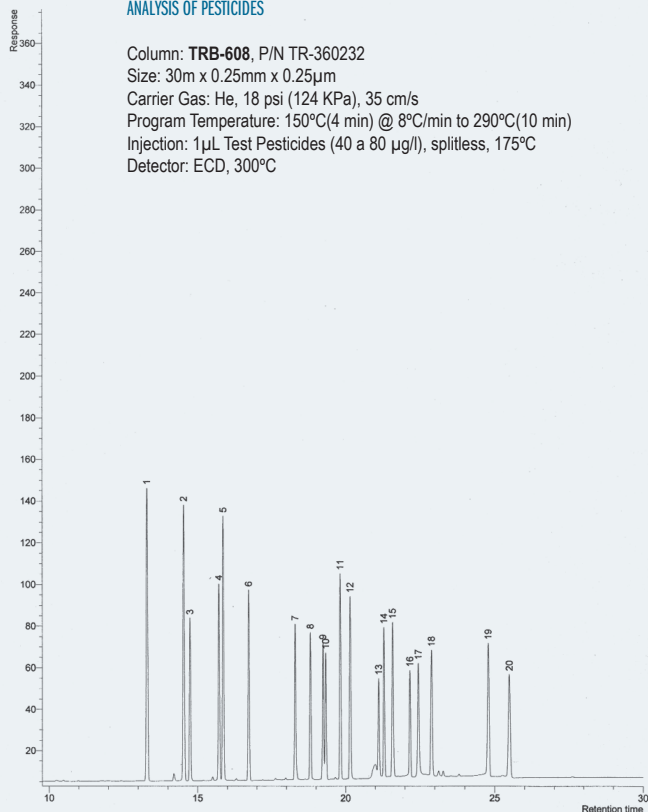
Peak Name

- 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



Peak Name

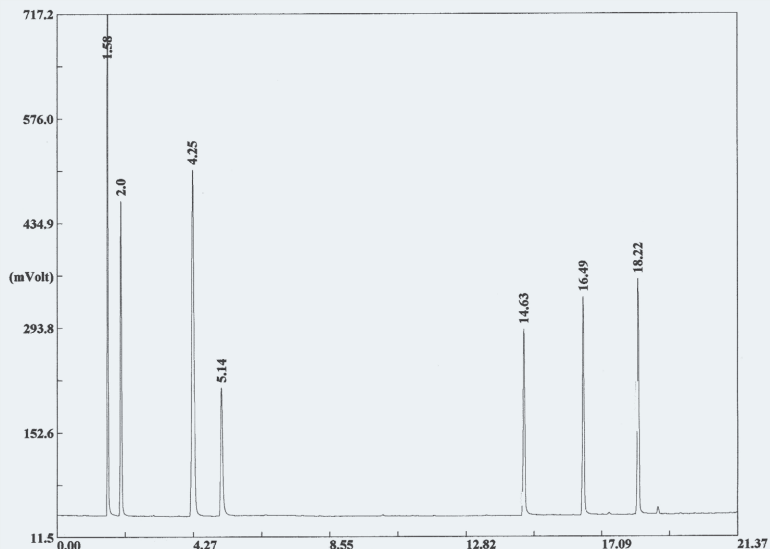
- 1 α-BHC
- 2 β-BHC
- 3 γ-BHC
- 4 Heptachlor
- 5 δ-BHC
- 6 Aldrin
- 7 Heptachlor epoxide
- 8 γ-Chlordane
- 9 α-Chlordane
- 10 Endosulfan I
- 11 p,p'-DDE
- 12 Dieldrin
- 13 Endrin
- 14 p,p'-DDD
- 15 Endosulfan II
- 16 p,p'-DDT
- 17 Endrin aldehyde
- 18 Endosulfan sulfate
- 19 Methoxychlor
- 20 Endrin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

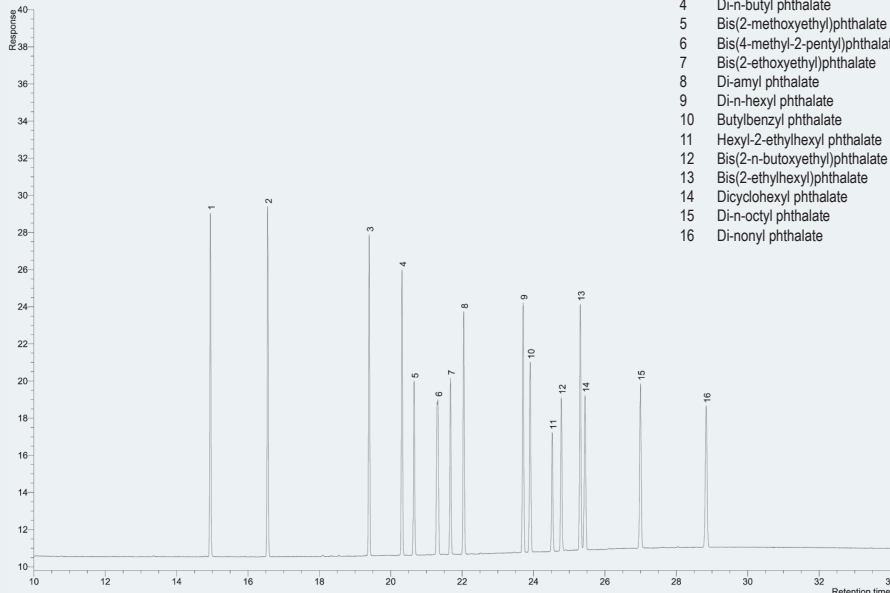
RT (min)	Peak Name
1.58	Ethyl amine
2.0	Isopropylamine
4.25	Isobutylamine
5.14	n-Butylamine
14.63	n-Octylamine
16.49	n-Nonylamine
18.22	n-Decylamine



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

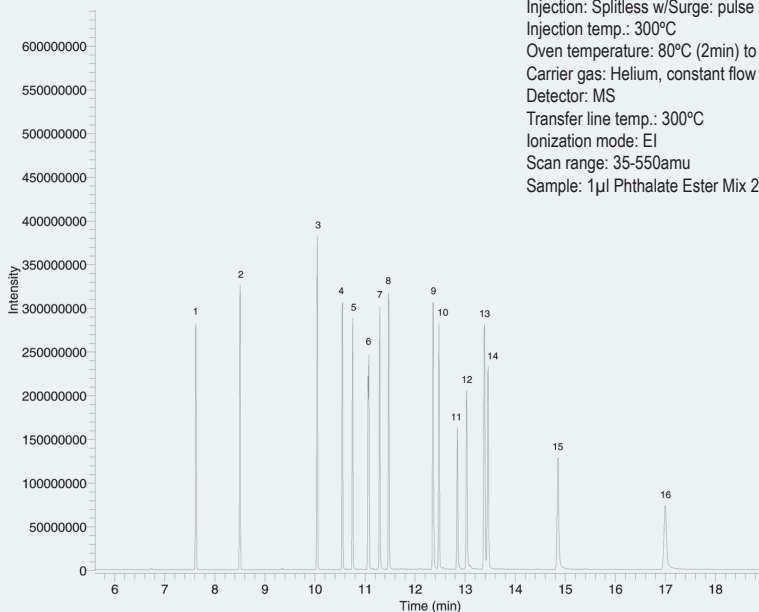


Peak Name
1 Dimethyl phthalate
2 Diethyl phthalate
3 Diisobutyl phthalate
4 Di-n-butyl phthalate
5 Bis(2-methoxyethyl)phthalate
6 Bis(4-methyl-2-pentyl)phthalate isomers
7 Bis(2-ethoxyethyl)phthalate
8 Di-amyl phthalate
9 Di-n-hexyl phthalate
10 Butylbenzyl phthalate
11 Hexyl-2-ethylhexyl phthalate
12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

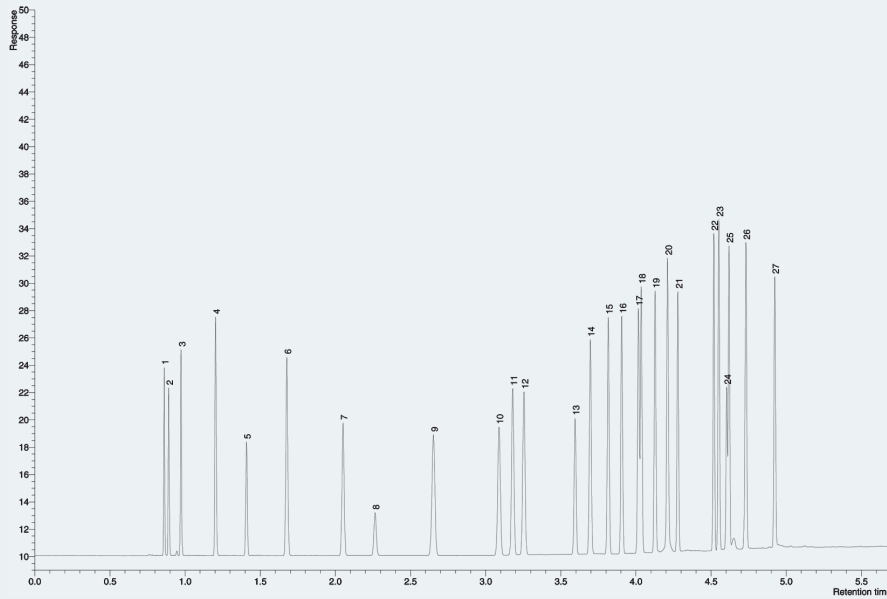


Peak Name
1 Dimethyl phthalate
2 Diethyl phthalate
3 Diisobutyl phthalate
4 Di-n-butyl phthalate
5 Bis(2-methoxyethyl)phthalate
6 Bis(4-methyl-2-pentyl)phthalate isomers
7 Bis(2-ethoxyethyl)phthalate
8 Di-amyl phthalate
9 Di-n-hexyl phthalate
10 Butylbenzyl phthalate
11 Hexyl-2-ethylhexyl phthalate
12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

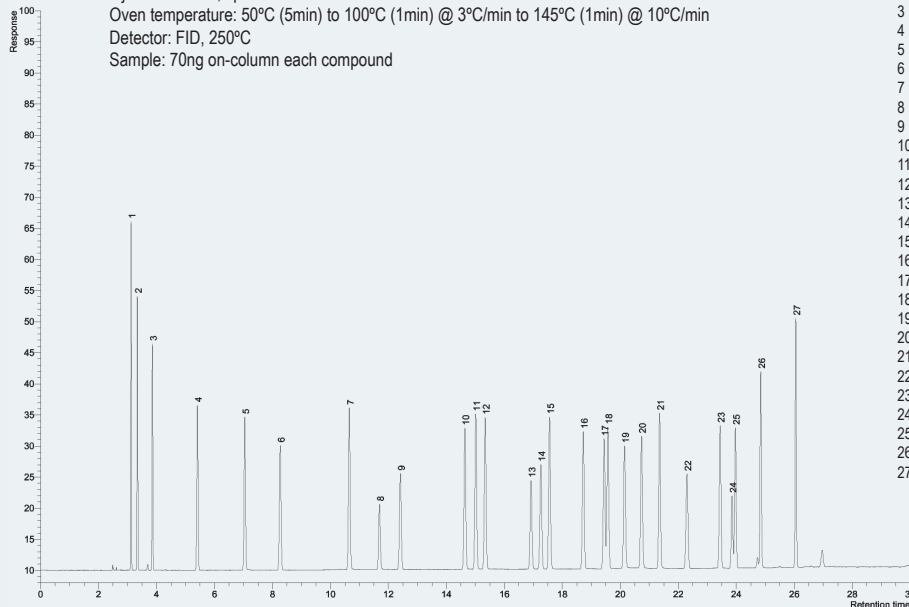


Peak Name
1 heptane
2 cyclohexane
3 octane
4 nonane
5 benzene
6 decane
7 toluene
8 1,4-dioxane
9 undecane
10 ethylbenzene
11 p-xylene
12 m-xylene
13 cumene
14 dodecane
15 o-xylene
16 propylbenzene
17 p-ethyltoluene
18 m-ethyltoluene
19 t-butylbenzene
20 s-butylbenzene
21 styrene
22 tridecane
23 diethylbenzeneisomer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

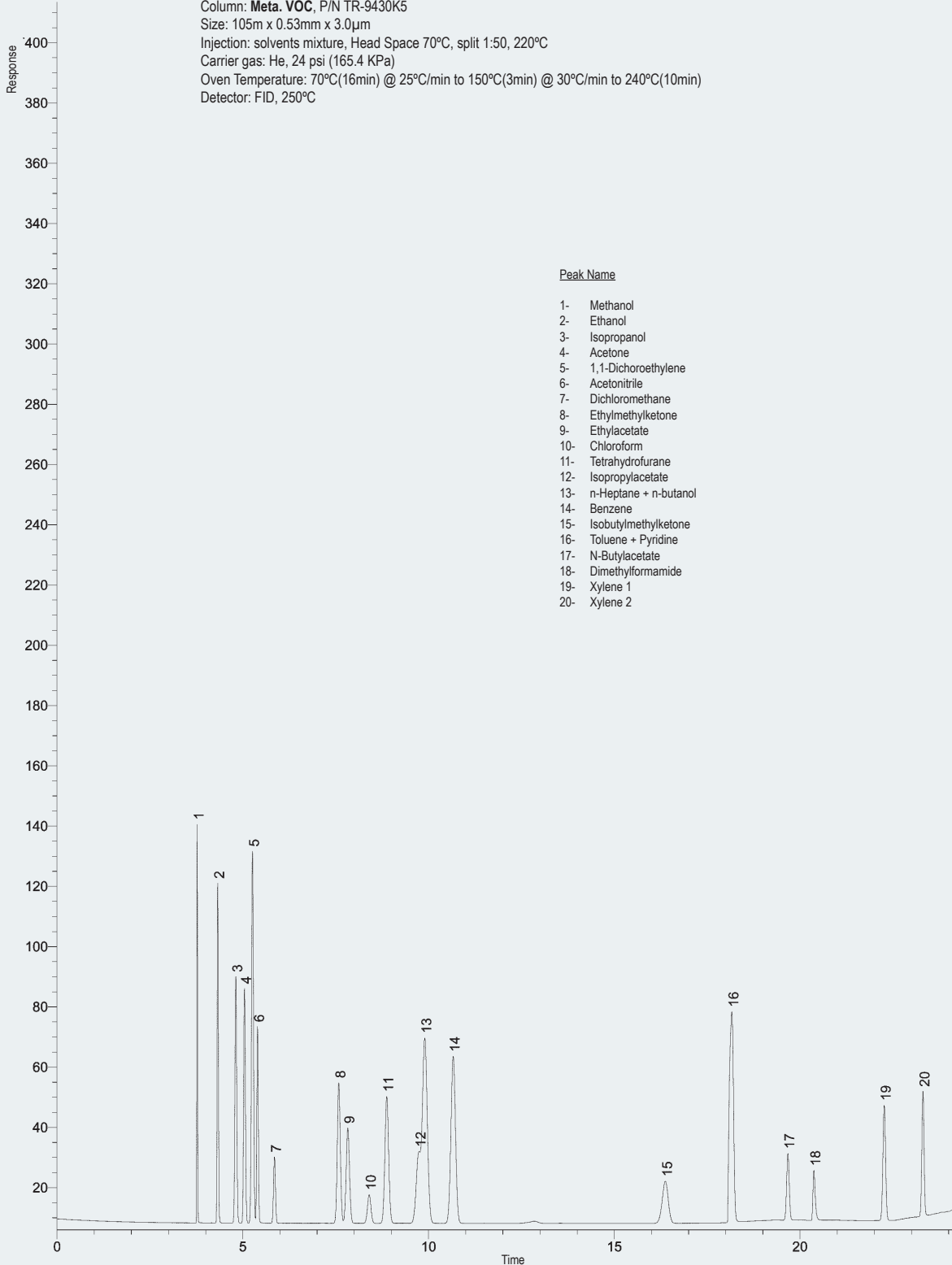


Peak Name
1 heptane
2 cyclohexane
3 octane
4 nonane
5 benzene
6 decane
7 toluene
8 1,4-dioxane
9 undecane
10 ethylbenzene
11 p-xylene
12 m-xylene
13 cumene
14 dodecane
15 o-xylene
16 propylbenzene
17 p-ethyltoluene
18 m-ethyltoluene
19 t-butylbenzene
20 s-butylbenzene
21 styrene
22 tridecane
23 diethylbenzeneisomer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

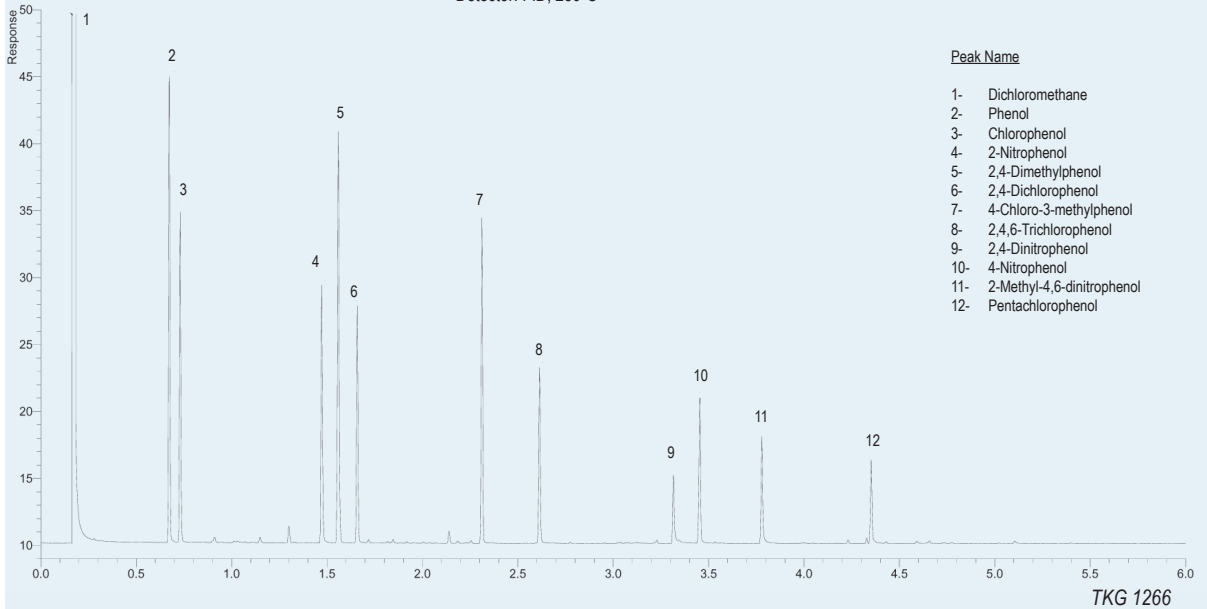


Peak Name
1- Methanol
2- Ethanol
3- Isopropanol
4- Acetone
5- 1,1-Dichloroethylene
6- Acetonitrile
7- Dichloromethane
8- Ethylmethylketone
9- Ethylacetate
10- Chloroform
11- Tetrahydrofurane
12- Isopropylacetate
13- n-Heptane + n-butanol
14- Benzene
15- Isobutylmethylketone
16- Toluene + Pyridine
17-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

TKG 1257

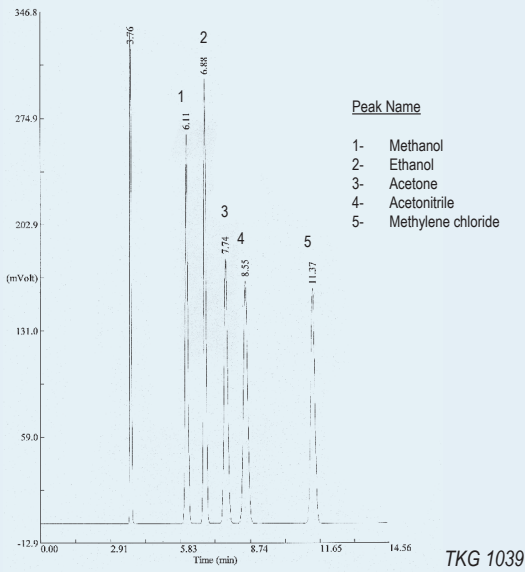
PHENOLS EPA 604

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



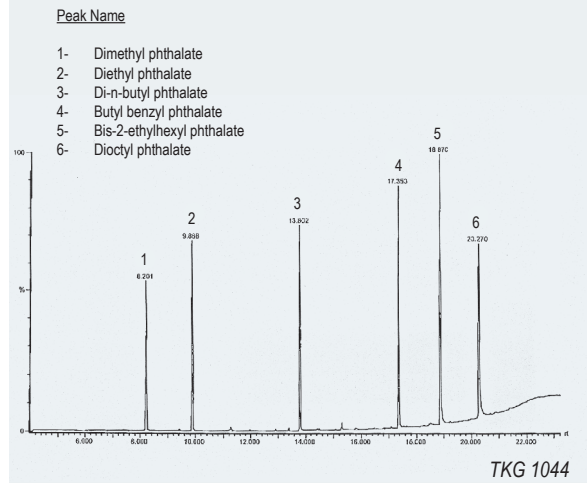
SEPARATION OF SOLVENTS

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



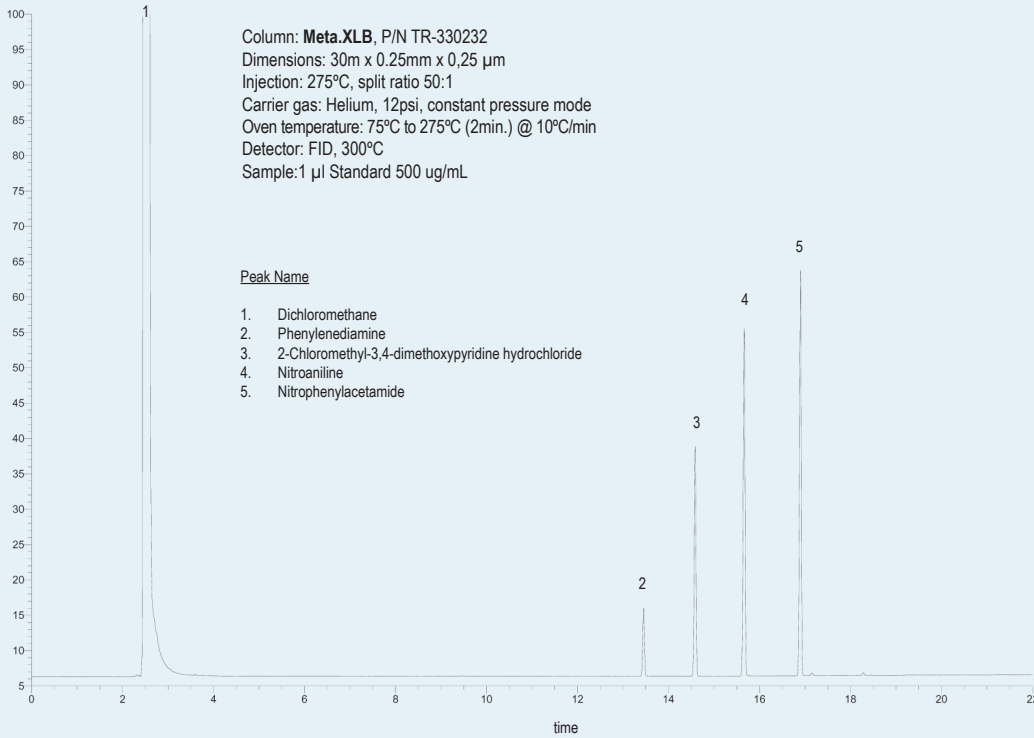
SEPARATION OF PAE (PHTHALATE ALKYL ESTER) MIX EPA

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



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

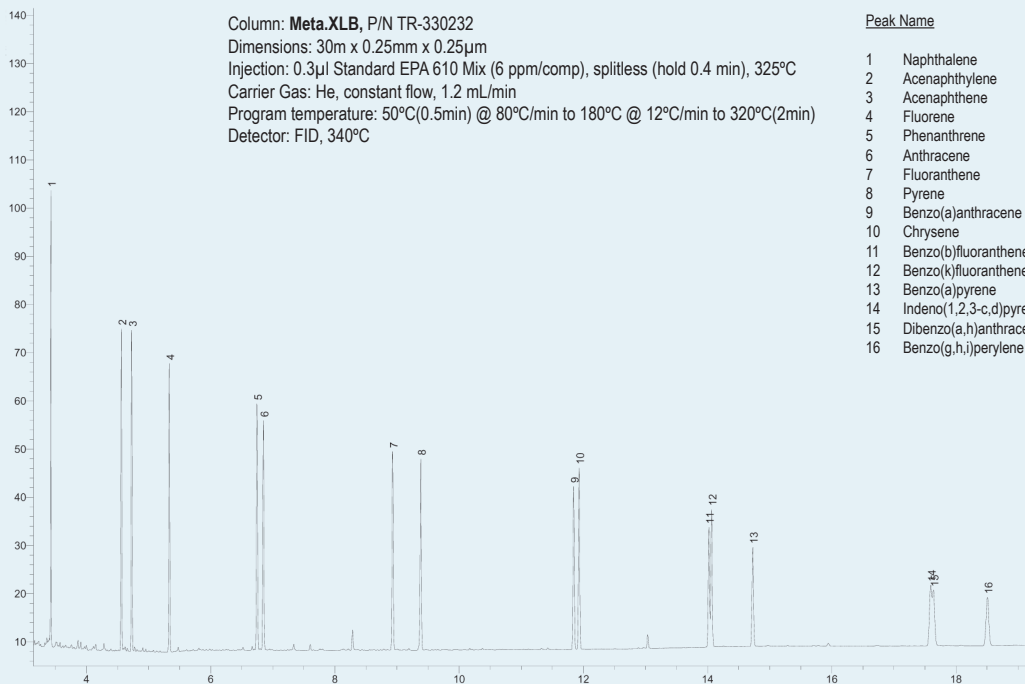
TKG 1264

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



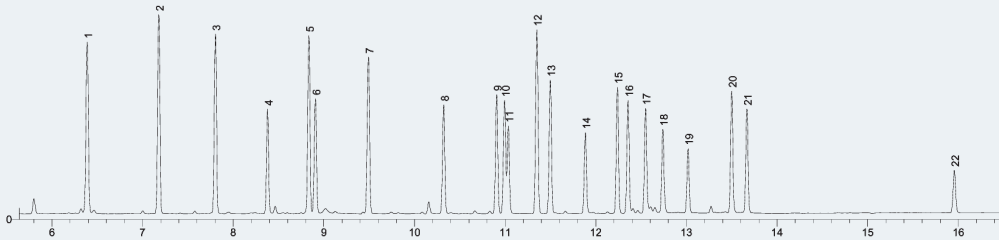
TKG 1270

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.)



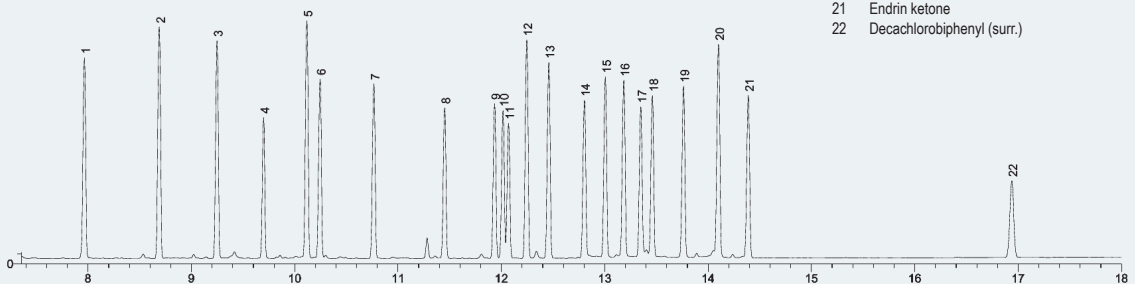
TKG 1269

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.)

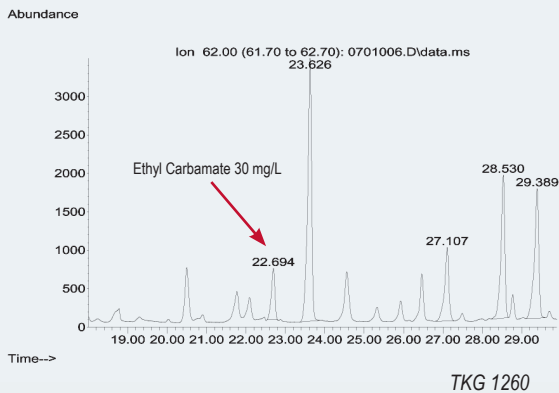


TKG 1271

ETHYL CARBAMATE IN WINE

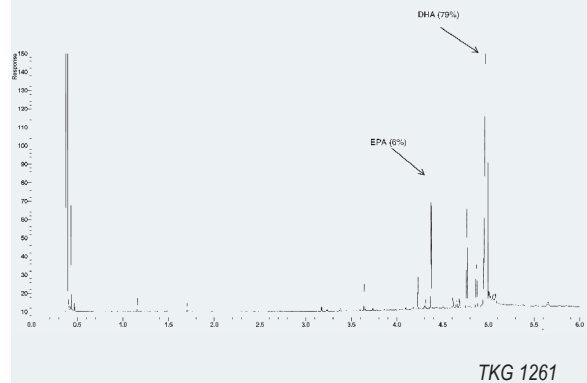
Column: **SupraWax-280**, 20m x 0.18mm x 0.18µm (P/N: TR-830984)
 Carrier gas: Helium, 1mL/min
 Injection: 1µL, split (30ppb of Ethyl Carbamate), 180°C
 Oven temp.: 40°C (0.75min) to 60°C @ 10°C/min to 150°C @ 3°C/min to 220°C(4.25min) @ 30°C/min
 Detector: MS (SIM, m/z 62, 74 and 89), transfer line 220°C

Chromatogram provided by Joan Garcia, INCAVI (Vilafranca del Penedés, Barcelona)



TUNA OIL WITH ADDED DHA

Column: **SupraWax-280**, 15m x 0.10mm x 0.10µm (P/N: TR-830111)
 Injection: 1µL Methylated sample, 280°C, split 100:1
 Carrier Gas: H₂, 45 psi (310.05 KPa)
 Oven: 100°C (0.5min) @ 50°C/min to 280°C (2min)
 Detector: FID, 280°C

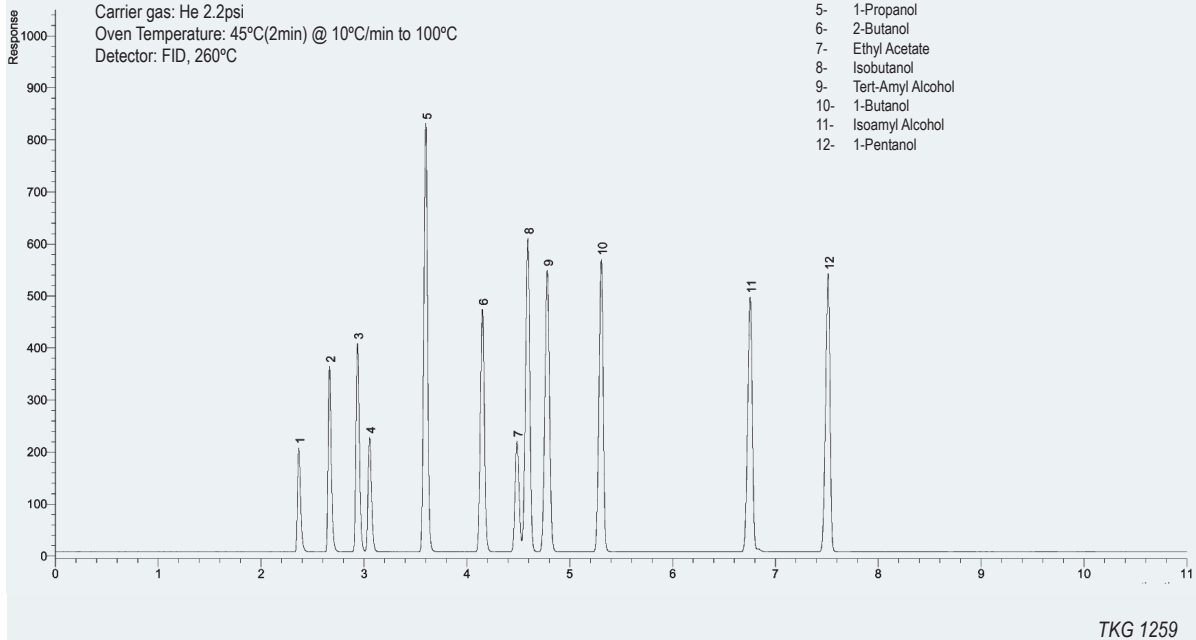


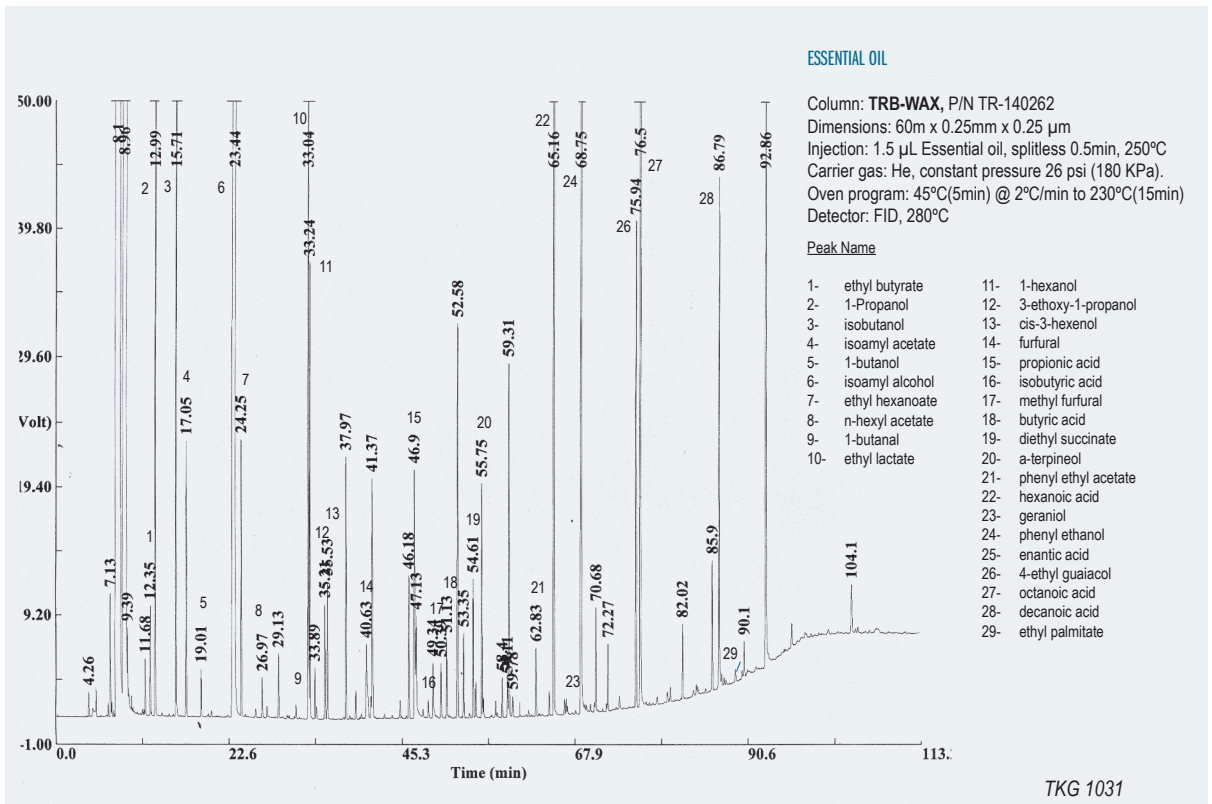
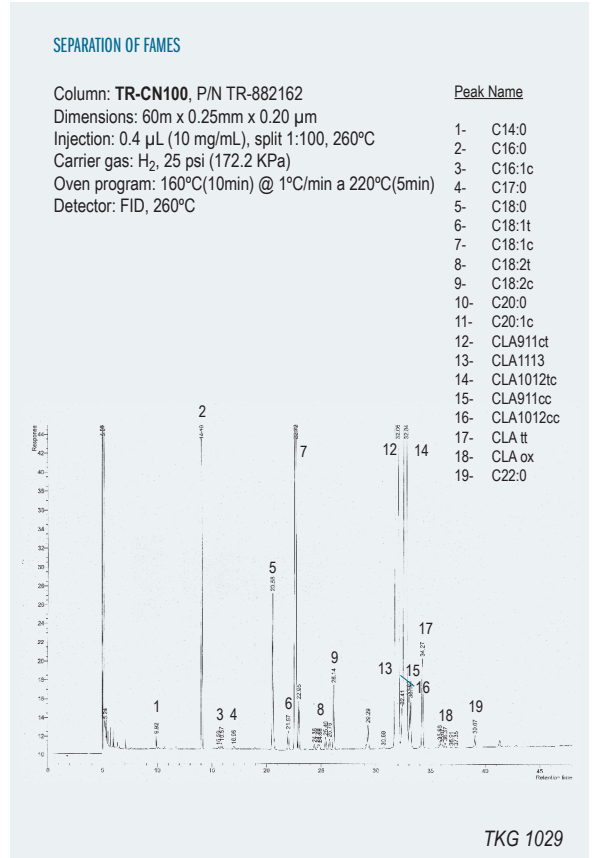
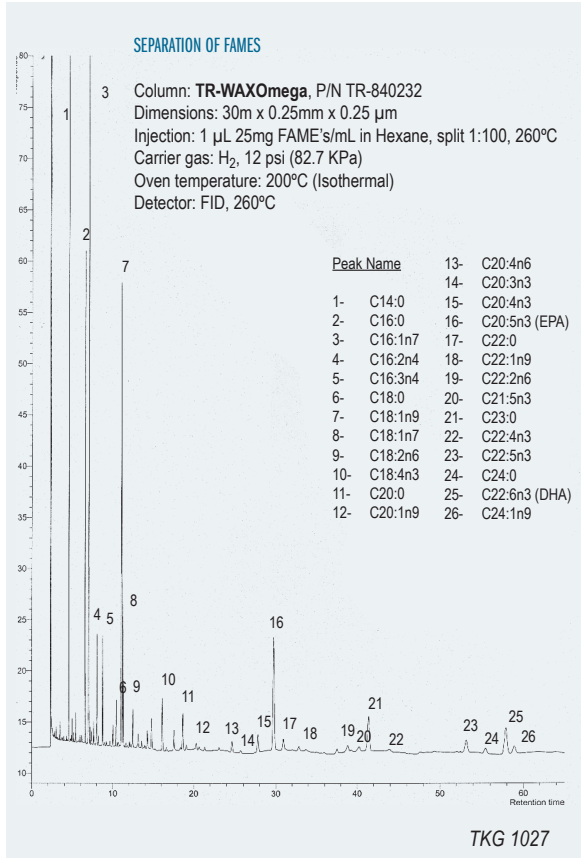
ALCOHOLS

Column: **TRB-20**, P/N TR-201235
 Dimensions: 30m x 0.53mm x 1.2µm
 Injection: wed needle, 260°C, split 1:100
 Carrier gas: He 2.2psi
 Oven Temperature: 45°C(2min) @ 10°C/min to 100°C
 Detector: FID, 260°C

Peak Name

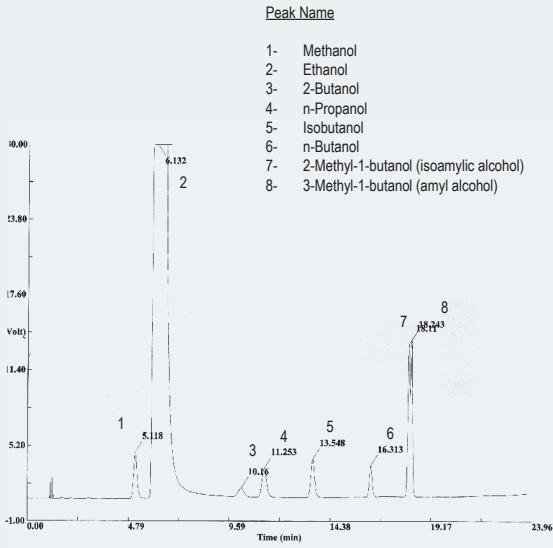
- 1- Methanol
- 2- Ethanol
- 3- 2-Propanol
- 4- Acetone
- 5- 1-Propanol
- 6- 2-Butanol
- 7- Ethyl Acetate
- 8- Isobutanol
- 9- Tert-Amyl Alcohol
- 10- 1-Butanol
- 11- Isoamyl Alcohol
- 12- 1-Pentanol





SEPARATION OF ALCOHOLS

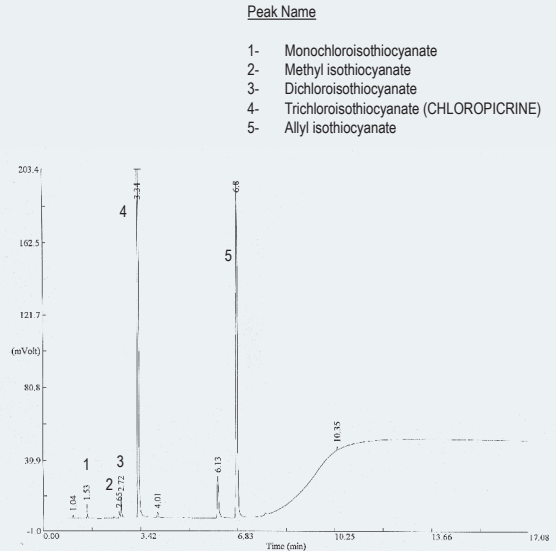
Column: **Meta .WAX**, P/N TR-811035
 Dimensions: 30m x 0.53mm x 1.0 µm
 Injection: 1 µL standard, split 1:4, 200°C
 Carrier gas: He, 3 psi (20.7 KPa)
 Oven temperature: 40°C(10min) @ 6°C/min to 125°C(5min)
 Detector: FID, 200°C



TKG 1030

ANALYSIS OF CHLOROPICRINE IN WINES

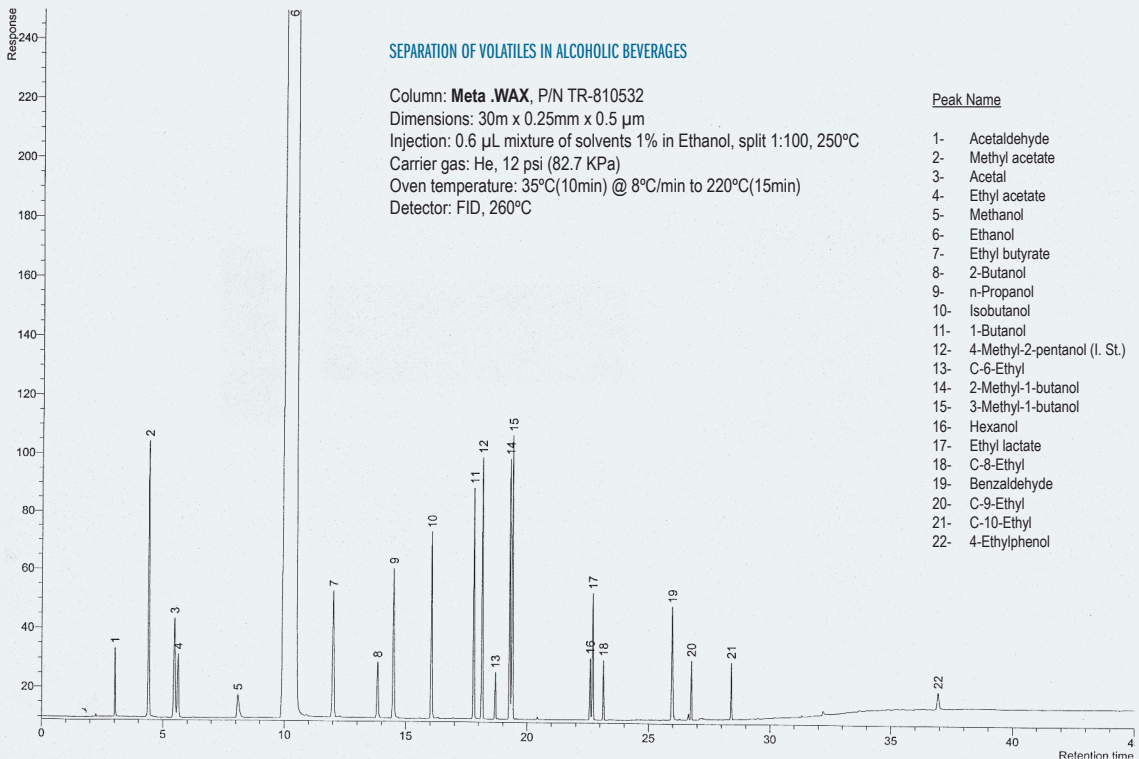
Column: **TRB-5**, P/N TR-120232
 Dimensions: 30m x 0.25mm x 0.25 µm
 Injection: 1 µL standard (5mg/L), 200°C
 Carrier gas: H₂, 12 psi (82.7 KPa)
 Oven temperature: 43°C(7min) @ 30°C/min to 120°C(10min)
 Detector: ECD, 300°C



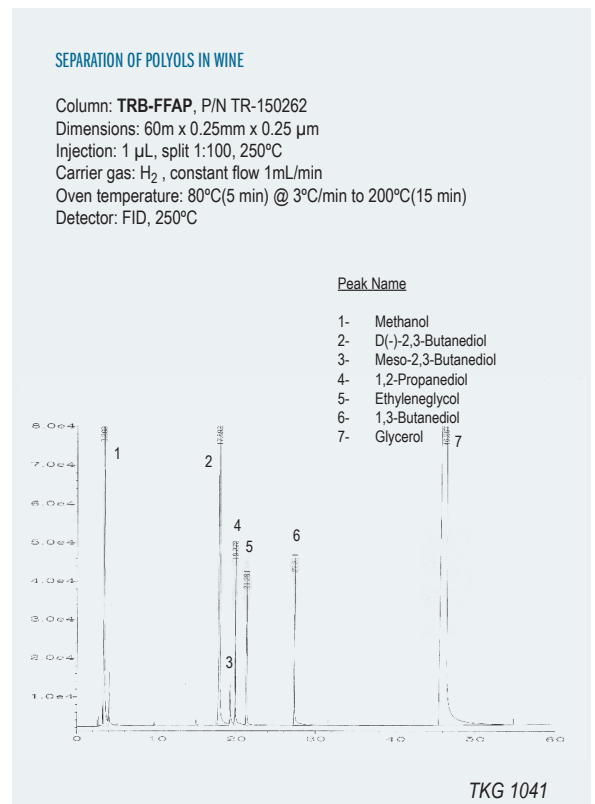
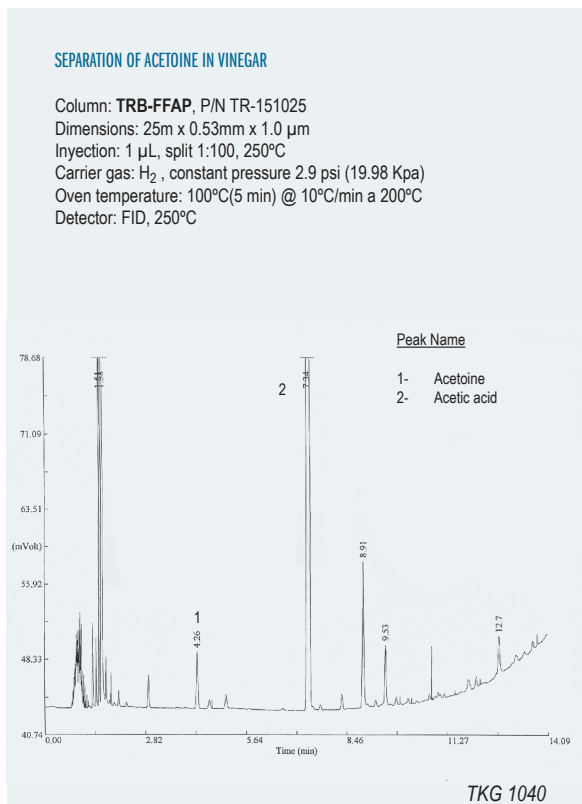
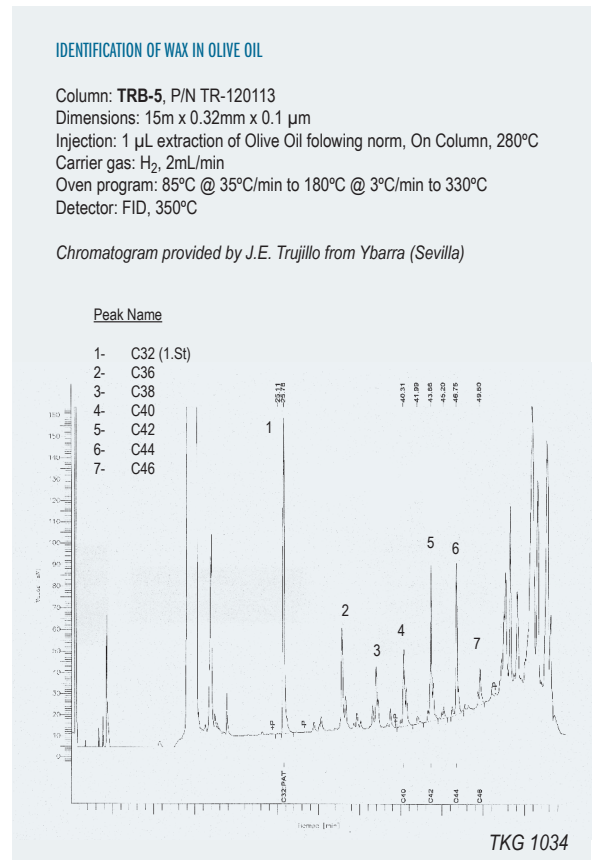
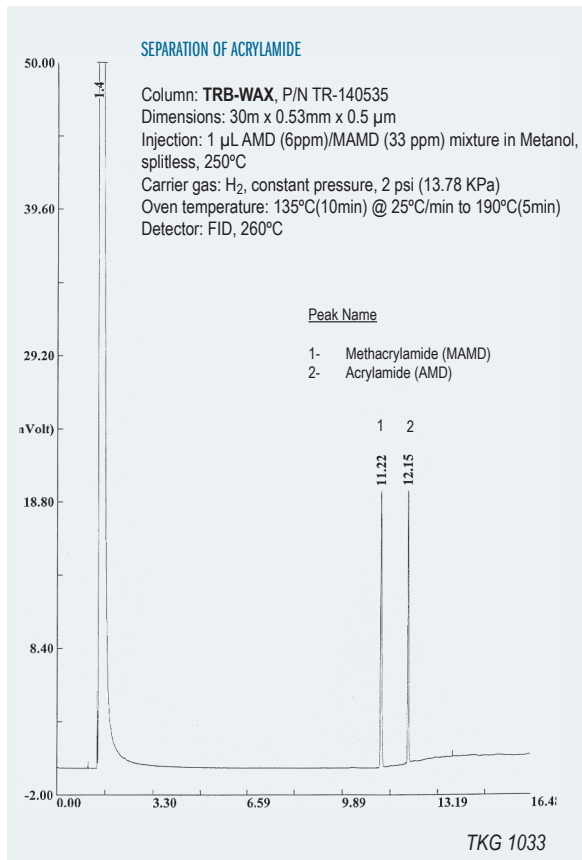
TKG 1032

SEPARATION OF VOLATILES IN ALCOHOLIC BEVERAGES

Column: **Meta .WAX**, P/N TR-810532
 Dimensions: 30m x 0.25mm x 0.5 µm
 Injection: 0.6 µL mixture of solvents 1% in Ethanol, split 1:100, 250°C
 Carrier gas: He, 12 psi (82.7 KPa)
 Oven temperature: 35°C(10min) @ 8°C/min to 220°C(15min)
 Detector: FID, 260°C

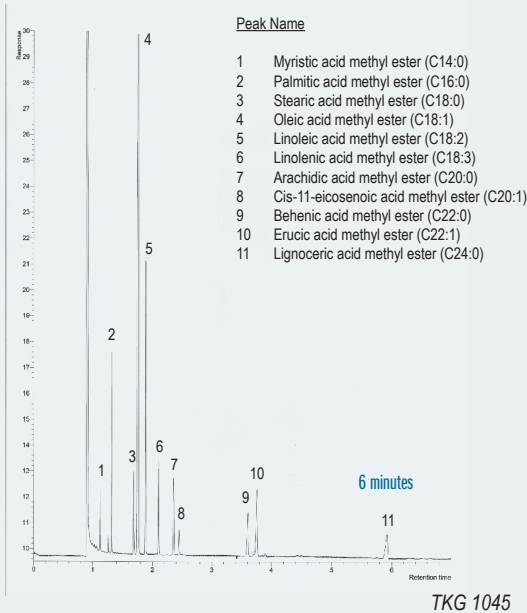


TKG 1026



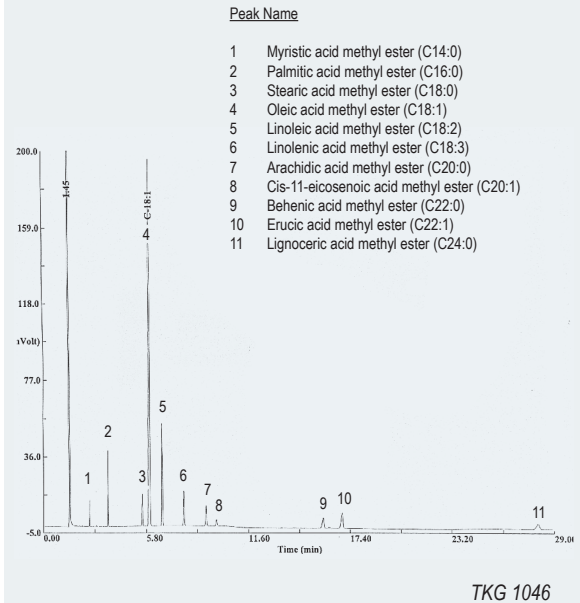
ANALYSIS OF RAPESEED OIL (FAST CHROMATOGRAPHY)

Column: **TRB-WAX**, P/N TR-142181
 Dimensions: 20m x 0.10mm x 0.2 μm
 Injection: 0.7 μL Rapeseed oil, split 1:500, 280°C
 Carrier gas: H₂, constant pressure, 54 psi (372 KPa), 41.15 cm/s
 Oven temperature: 205°C (Isothermal)
 Detector: FID, 280°C



ANALYSIS OF RAPESEED OIL

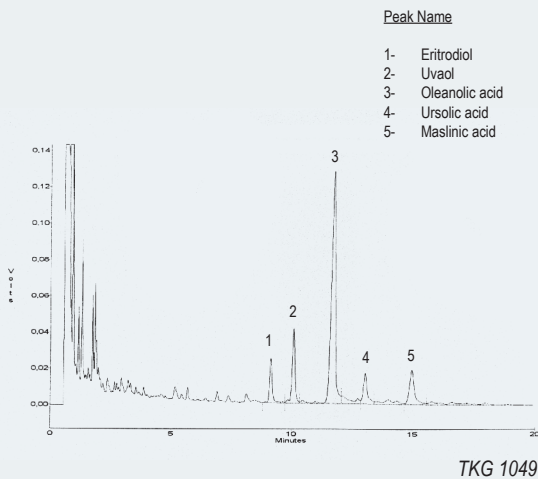
Column: **TRB-WAX**, P/N TR-140232
 Dimensions: 30m x 0.25mm x 0.25 μm
 Injection: 1 μL Rapeseed oil, split 1:50, 280°C
 Carrier gas: H₂, 36.23 cm/s
 Oven temperature: 205°C (Isothermal)
 Detector: FID, 280°C



ALCOHOLS AND TERPENIC ACIDS (OLIVE OIL)

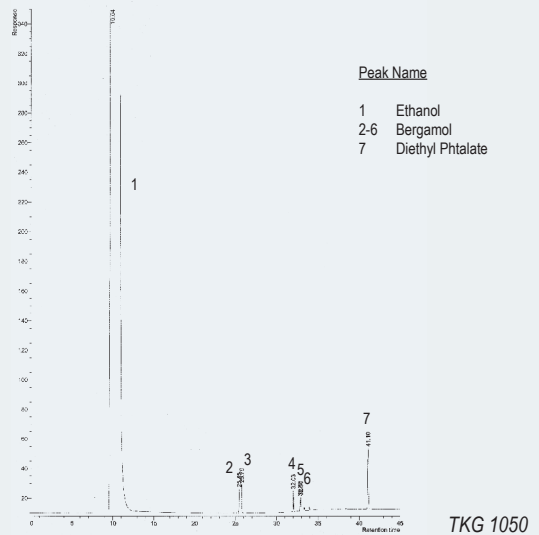
Column: **TRB-35**, P/N TR-351332
 Dimensions: 30m x 0.25mm x 0.15 μm
 Injection: 1 μL extract of leaf of Olive Tree, split 1:20, 300°C
 Carrier gas: H₂, constant pressure 12 psi (82.7 KPa).
 Oven temperature: 275°C
 Detector: FID, 300°C

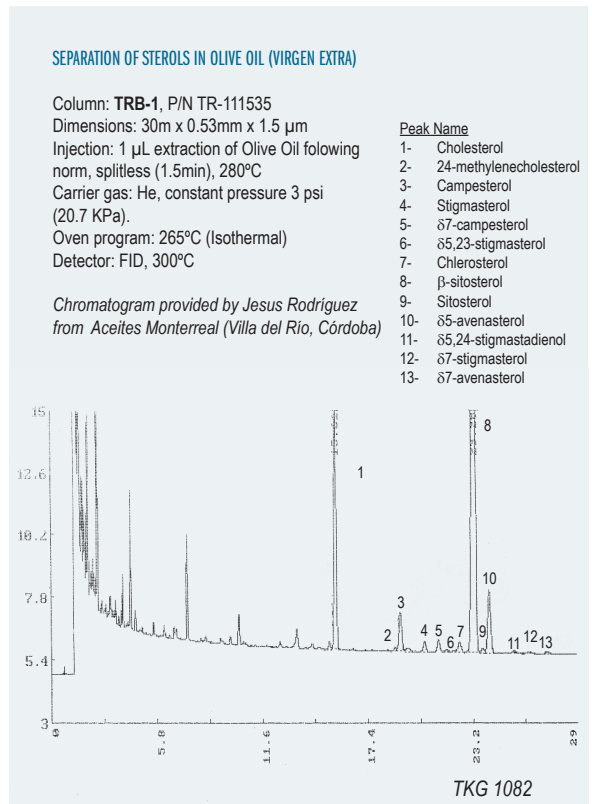
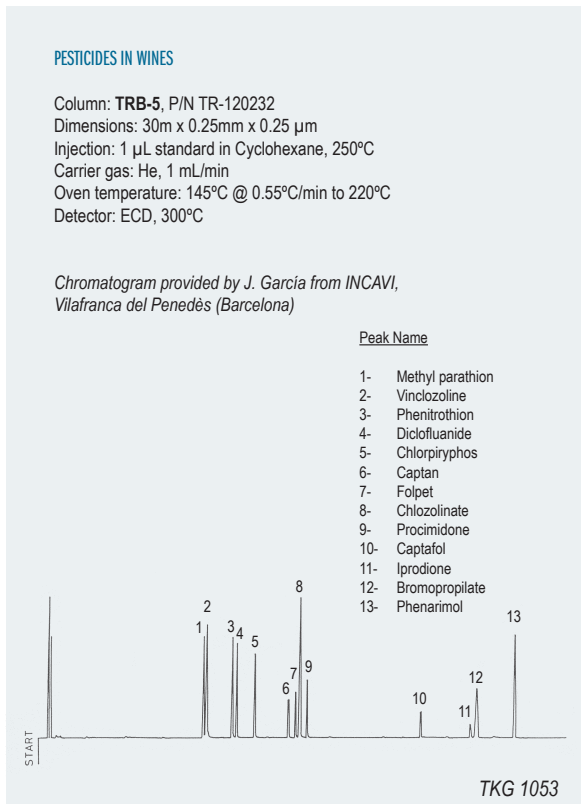
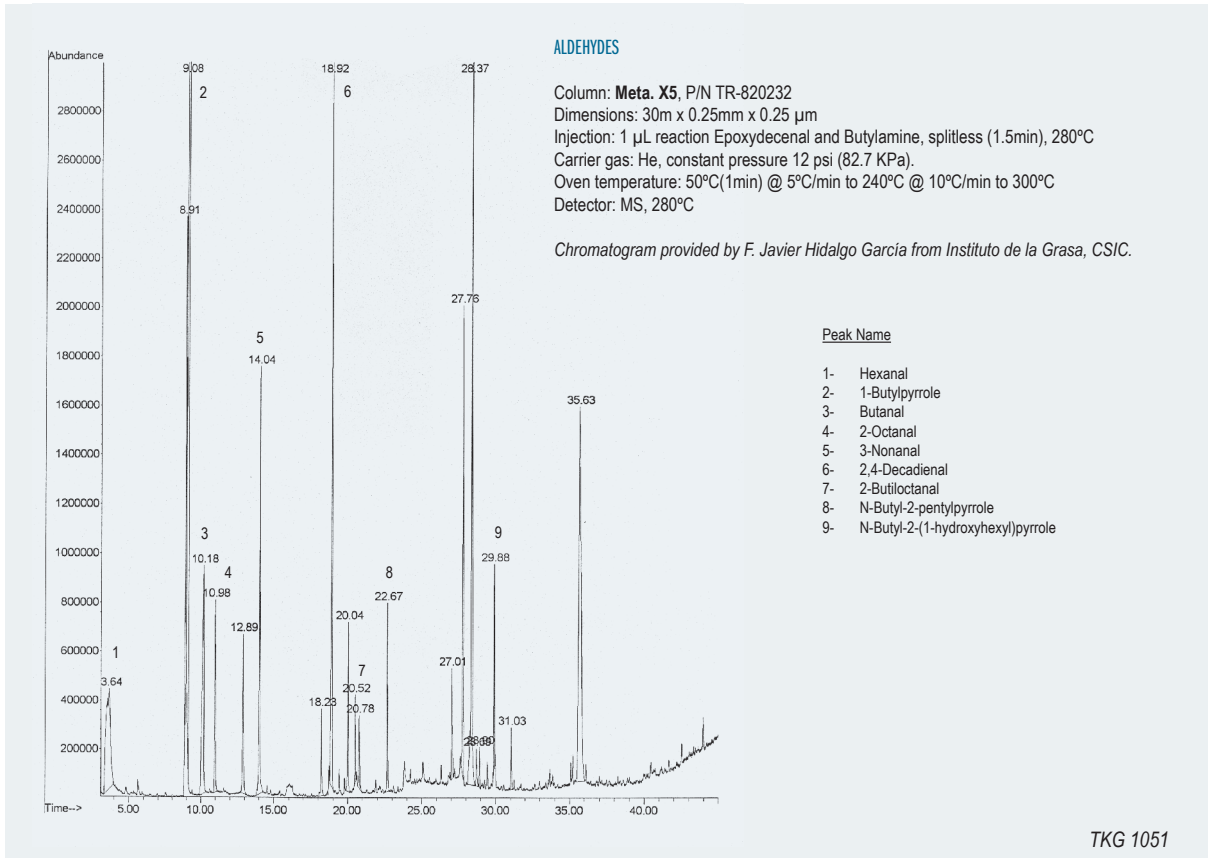
Chromatogram provided by Angeles Guinda from Instituto de la Grasa, CSIC.

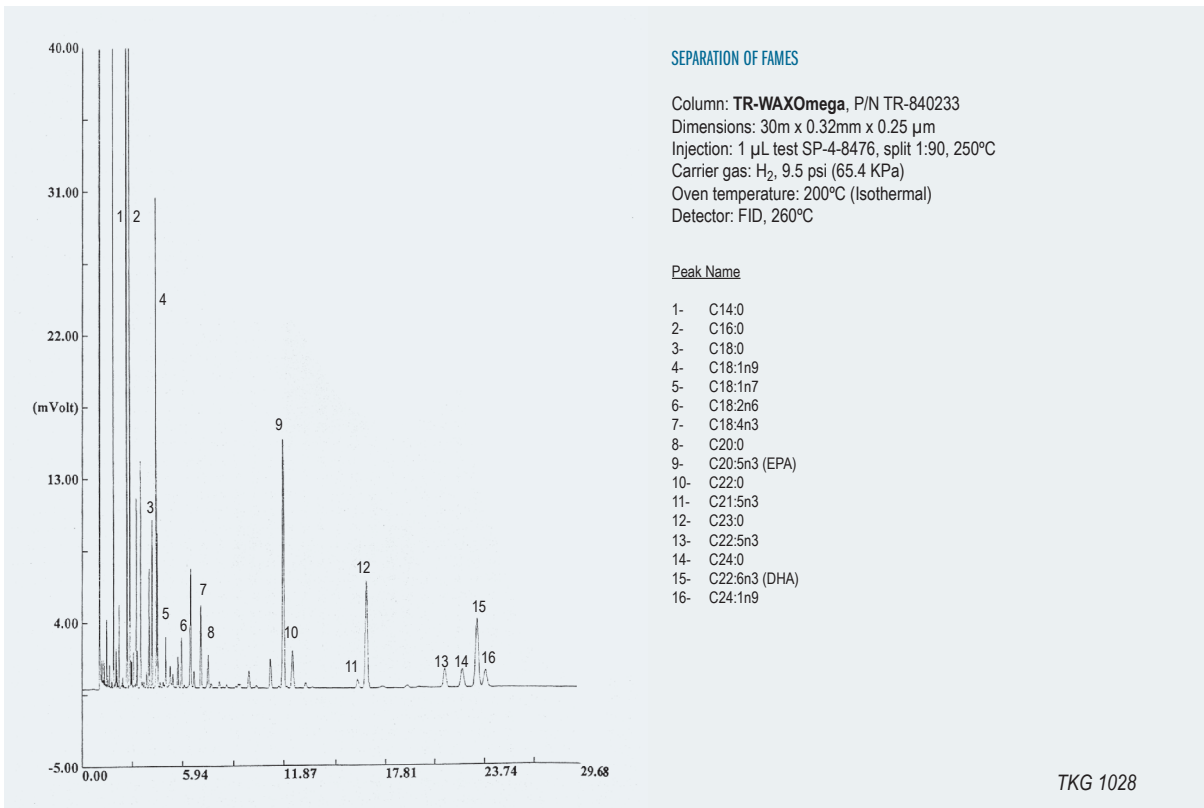
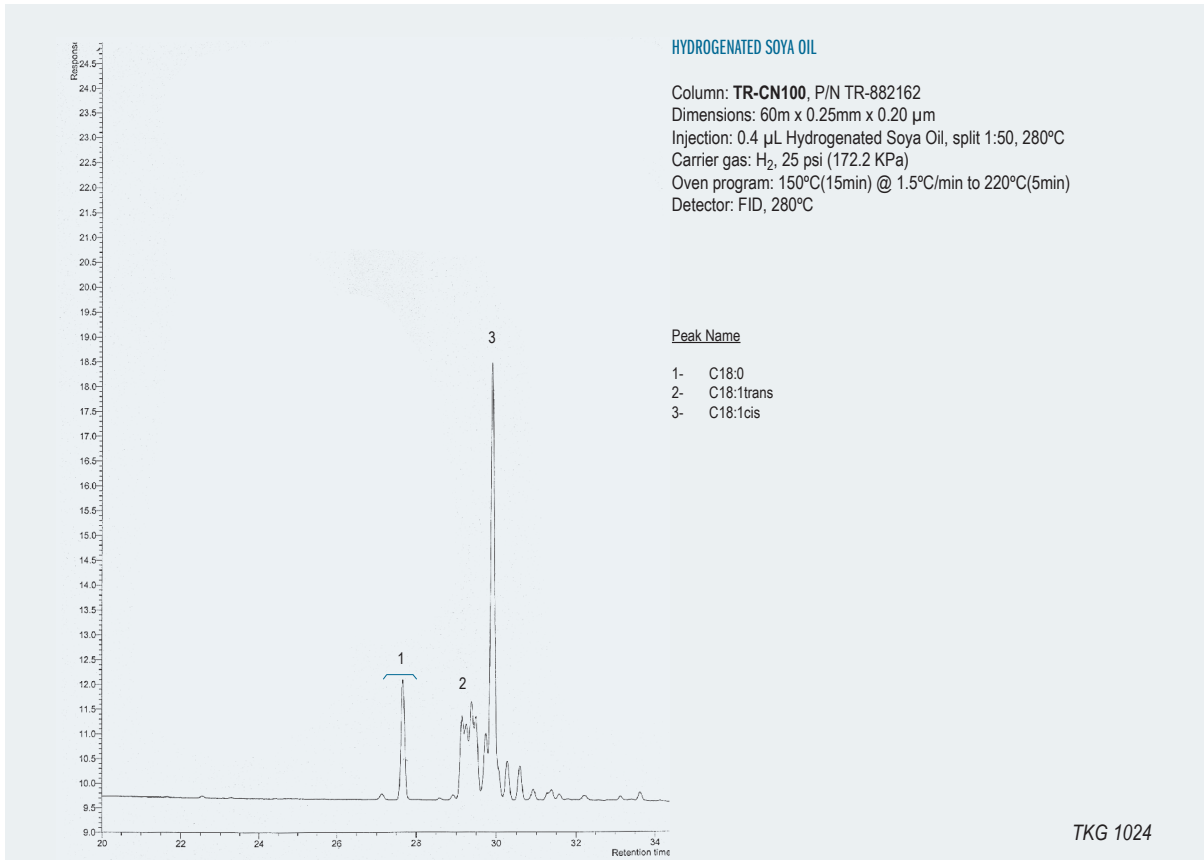


ANALYSIS BERGAMOL

Column: **Meta.WAX**, P/N TR-810532
 Dimensions: 30m x 0.25mm x 0.5 μm
 Injection: 1 μL standard 0.3% v/v Bergamol/Diethyl Phtalate in Ethanol, split 1:50, 260°C
 Carrier gas: H₂, 12 psi (82.7 KPa).
 Oven temperature: 35°C(10min) @ 8°C/min to 220°C(20min)
 Detector: FID, 260°C







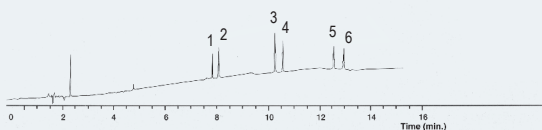
PHENOLS-ANISOL IN WINE

Column: **TR-5MS** P/N TR-520232
 Dimensions: 30m x 0.25mm x 0.25 μ m
 Injection: 280°C, 1 μ L (St 100 ppb), split (30:1)
 Carrier gas: H₂, 1.2 ml/min. 17 psi (117 kPa) to 80°C
 Oven temperature: 80°C to 120°C (5min) @ 10°C/min.
 Detector: ECD, 330°C

Peak Name

- 1- Trichlorophenol
- 2- Trichloroanisole
- 3- Tetrachlorophenol
- 4- Tetrachloroanisole
- 5- Pentachlorophenol
- 6- Pentachloroanisole

Exceptional symmetry of the peaks at traces level



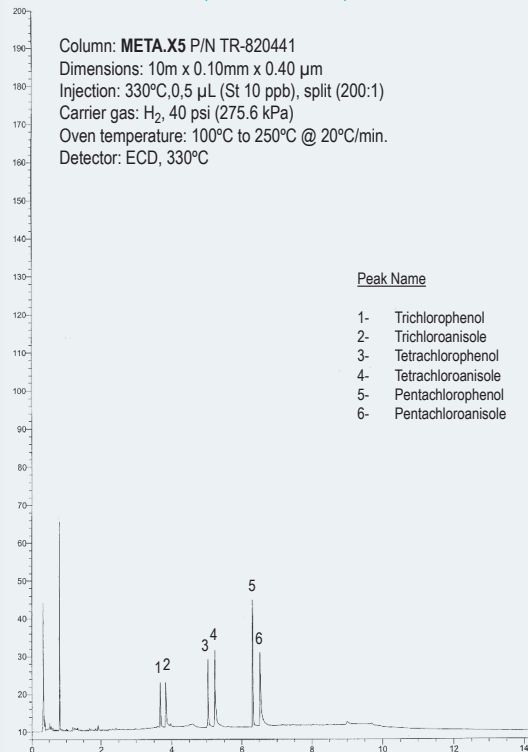
TKG 1068

PHENOL-ANISOL IN WINE (FAST CHROMATOGRAPHY)

Column: **META.X5** P/N TR-820441
 Dimensions: 10m x 0.10mm x 0.40 μ m
 Injection: 330°C, 0.5 μ L (St 10 ppb), split (200:1)
 Carrier gas: H₂, 40 psi (275.6 kPa)
 Oven temperature: 100°C to 250°C @ 20°C/min.
 Detector: ECD, 330°C

Peak Name

- 1- Trichlorophenol
- 2- Trichloroanisole
- 3- Tetrachlorophenol
- 4- Tetrachloroanisole
- 5- Pentachlorophenol
- 6- Pentachloroanisole



TKG 1193

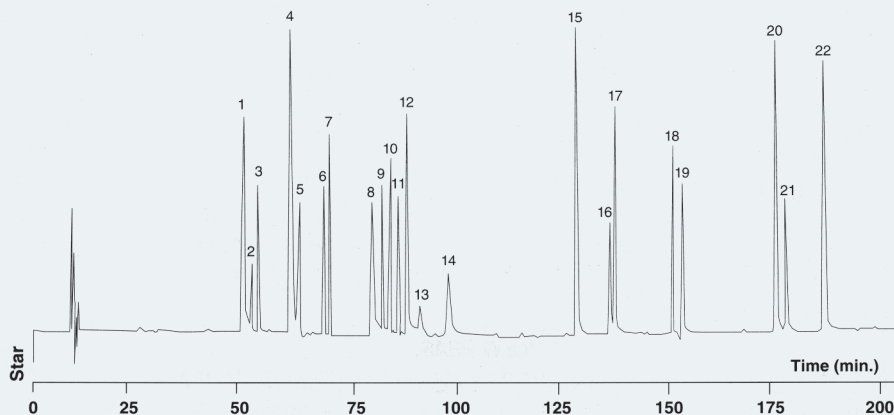
PHYTOSANITARY ANALYSIS IN WINE

Column: **Meta.X5** P/N TR-820232
 Dimensions: 30m x 0.25mm x 0.25 μ m
 Injection: 2.0 μ L split (1:100), 250°C
 Carrier gas: He, 1 ml/min.
 Oven temperature: 140°C to 180°C @ 0.4°C/min. to 270°C(15min.) @ 1°C/min.
 Detector: ECD, 300°C, make up Argon/methane (95/5)
 Sample: Phytosanitary standard INCAVI, (70-680 μ g/L of each component)

Chromatogram supplied by M. Jaldo, J. Garcia (Incavi) and J. Marco (Torres, S.A.)

Peak Name

- 1- Methylchlorpyrifos
- 2- Methylparathion
- 3- Vinclozoline
- 4- Fenitrothion
- 5- Dichlofluamide
- 6- Malathion
- 7- Chlorpyrifos
- 8- Captan
- 9- Penconazol
- 10- Folpet
- 11- Chlozolinat
- 12- Triadimenol + Procidione
- 13- Triadimenol
- 14- Hexocanazol
- 15- Captafol
- 16- Iprodione
- 17- Bromopropylate
- 18- Fenarimol
- 19- Cyalotrin
- 20- Fenvalerate
- 21- Fenvalerate
- 22- Azoxystrobine

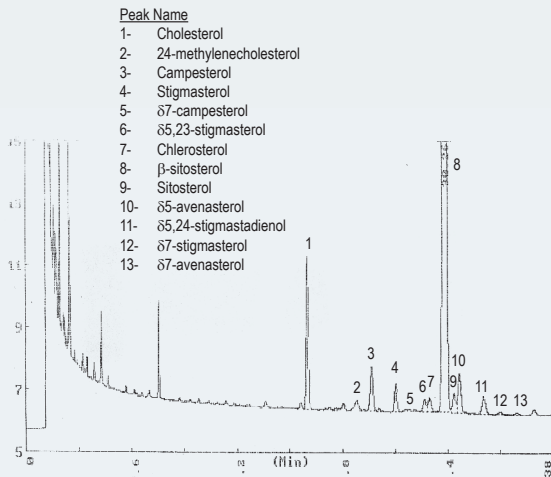


TKG 1079

SEPARATION OF STEROLS IN OLIVE OIL (ORUJO)

Column: **TRB-1**, P/N TR-111535
 Dimensions: 30m x 0.53mm x 1.5 µm
 Injection: 1 µL extraction of Olive Oil following norm, splitless (1.5min), 280°C
 Carrier gas: He, constant pressure 3 psi (20.7 KPa).
 Oven program: 265°C (Isothermal)
 Detector: FID, 300°C

Chromatogram provided by Jesus Rodriguez from Aceites Monterreal (Villa del Río, Córdoba)

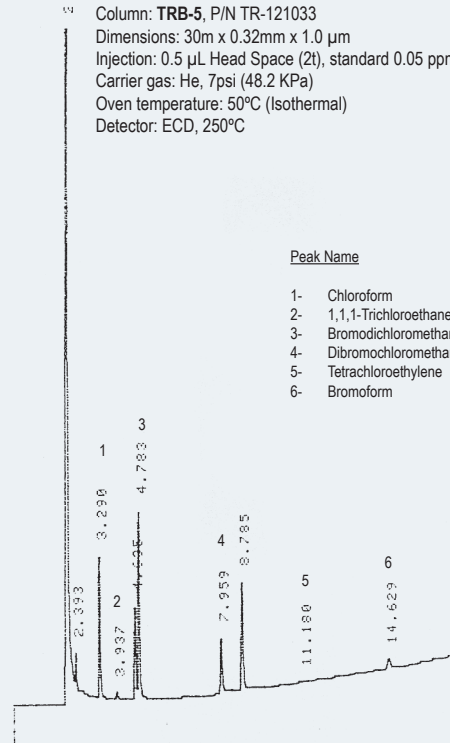


- Peak Name**
- 1- Cholesterol
 - 2- 24-methylenecholesterol
 - 3- Campesterol
 - 4- Stigmasterol
 - 5- δ7-campesterol
 - 6- δ5,23-stigmasterol
 - 7- Chlosterol
 - 8- β-sitosterol
 - 9- Sitosterol
 - 10- δ5-avenasterol
 - 11- δ5,24-stigmastadienol
 - 12- δ7-stigmasterol
 - 13- δ7-avenasterol

TKG 1083

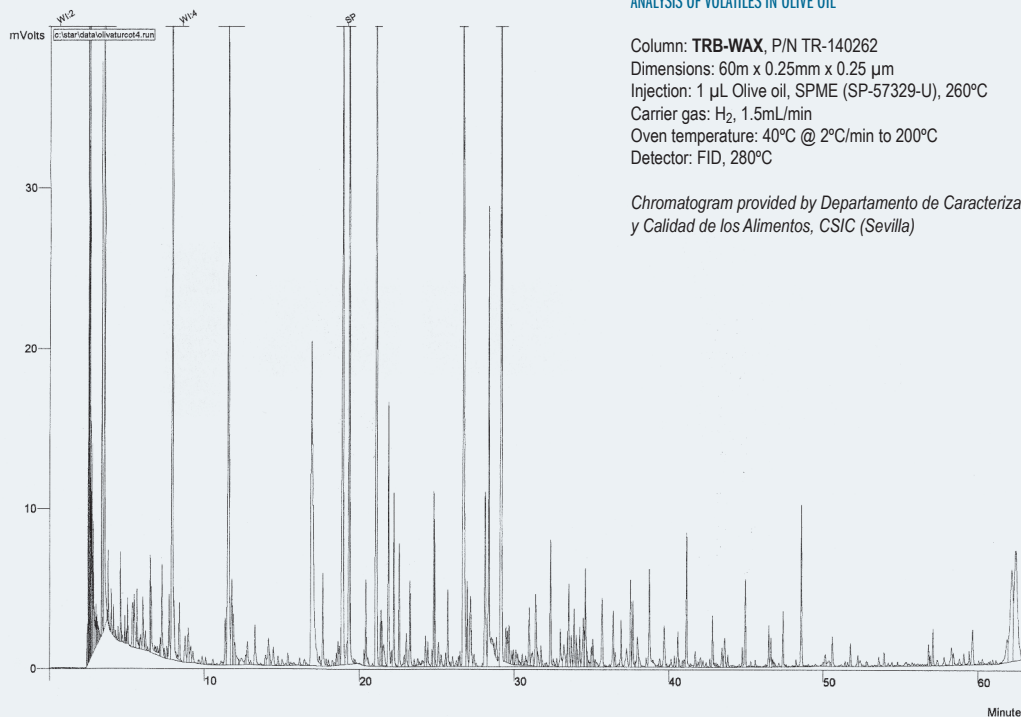
CHLORINATED SOLVENTS IN OLIVE OIL

Column: **TRB-5**, P/N TR-121033
 Dimensions: 30m x 0.32mm x 1.0 µm
 Injection: 0.5 µL Head Space (2t), standard 0.05 ppm, 150°C
 Carrier gas: He, 7psi (48.2 KPa)
 Oven temperature: 50°C (Isothermal)
 Detector: ECD, 250°C



- Peak Name**
- 1- Chloroform
 - 2- 1,1,1-Trichloroethane
 - 3- Bromodichloromethane
 - 4- Dibromochloromethane
 - 5- Tetrachloroethylene
 - 6- Bromoform

TKG 1092



ANALYSIS OF VOLATILES IN OLIVE OIL

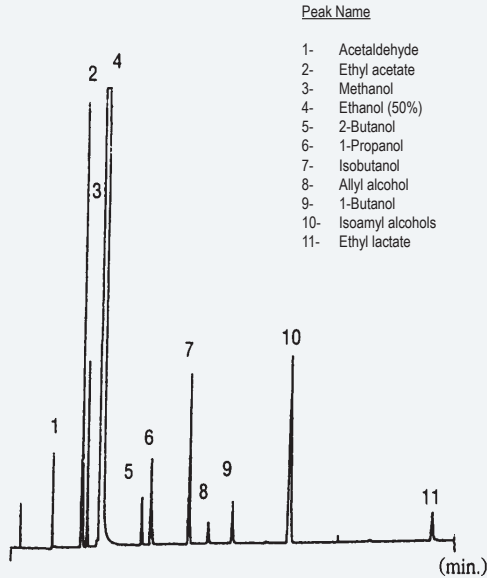
Column: **TRB-WAX**, P/N TR-140262
 Dimensions: 60m x 0.25mm x 0.25 µm
 Injection: 1 µL Olive oil, SPME (SP-57329-U), 260°C
 Carrier gas: H₂, 1.5mL/min
 Oven temperature: 40°C @ 2°C/min to 200°C
 Detector: FID, 280°C

Chromatogram provided by Departamento de Caracterización y Calidad de los Alimentos, CSIC (Sevilla)

TKG 1091

SEPARATION OF VOLATILES IN ALCOHOLIC BEVERAGES

Column: **TRB-WAX**, P/N TR-141035
 Dimensions: 30m x 0.53mm x 1.0 µm
 Injection: 1 µL, split
 Carrier gas: He, 5 psi (34.5 KPa)
 Oven temperature: 40°C @ 2°C/min to 150°C
 Detector: FID, 225°C

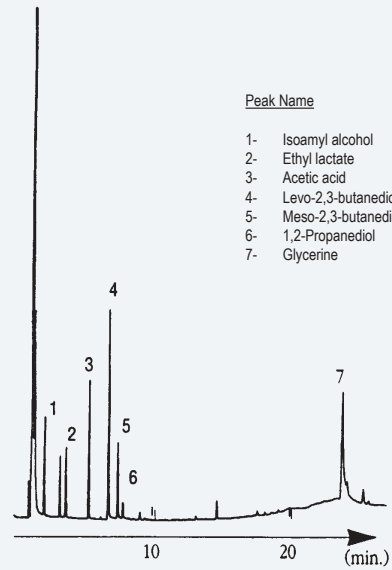


Peak Name
1- Acetaldehyde
2- Ethyl acetate
3- Methanol
4- Ethanol (50%)
5- 2-Butanol
6- 1-Propanol
7- Isobutanol
8- Allyl alcohol
9- 1-Butanol
10- Isoamyl alcohols
11- Ethyl lactate

TKG 1174

ANALYSIS OF GLYCOLS IN WINE

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 (27.6 KPa)
 Oven temperature: 100°C @ 5°C/min to 200°C(10 min)
 Detector: FID, 275°C



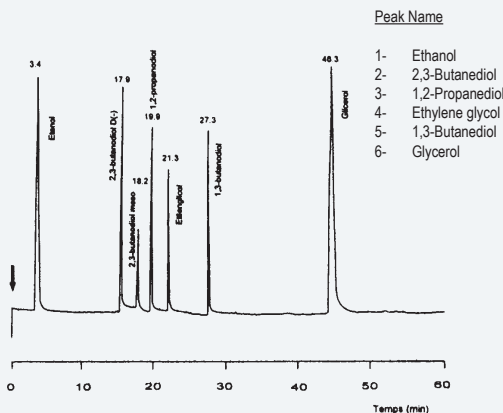
Peak Name
1- Isoamyl alcohol
2- Ethyl lactate
3- Acetic acid
4- Levo-2,3-butanediol
5- Meso-2,3-butanediol
6- 1,2-Propanediol
7- Glycerine

TKG 1175

ANALYSIS OF POLYOLS IN WINE

Column: **TRB-FFAP**, P/N TR-150262
 Dimensions: 60m x 0.25mm x 0.25 µm
 Injection: 1 µL, split (100:1), glycols standard, 205°C
 Carrier gas: H₂, 1 mL/min (80°C)
 Oven temperature: 100°C @ 5°C/min to 200°C(10 min)
 Detector: FID, 275°C

Chromatogram provided by R. Franquet and J. Garcia from INCAVI, Vilafranca del Penedès (Barcelona)

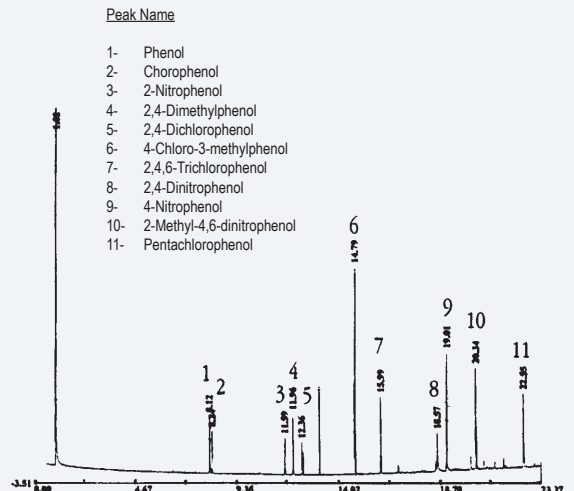


Peak Name
1- Ethanol
2- 2,3-Butanediol
3- 1,2-Propanediol
4- Ethylene glycol
5- 1,3-Butanediol
6- Glycerol

TKG 1176

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

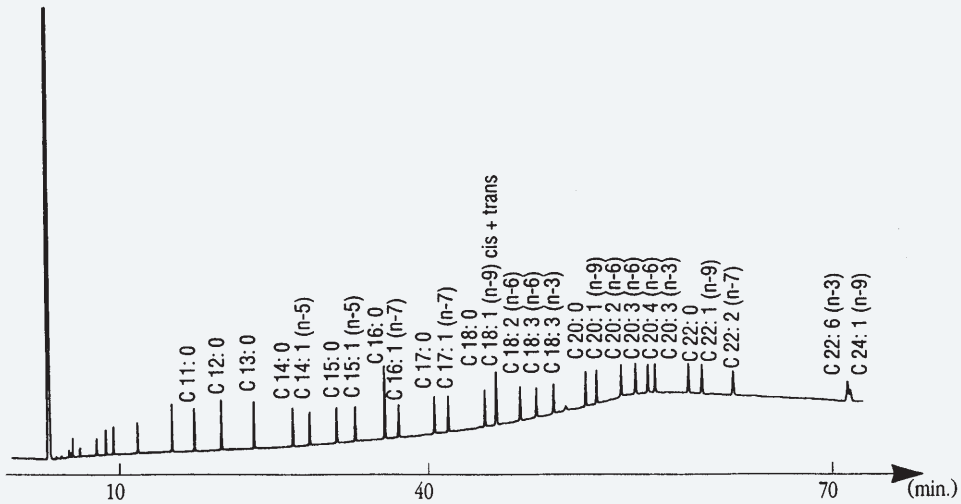


Peak Name
1- Phenol
2- Chorophenol
3- 2-Nitrophenol
4- 2,4-Dimethylphenol
5- 2,4-Dichlorophenol
6- 4-Chloro-3-methylphenol
7- 2,4,6-Trichlorophenol
8- 2,4-Dinitrophenol
9- 4-Nitrophenol
10- 2-Methyl-4,6-dinitrophenol
11- Pentachlorophenol

TKG 1153

SEPARATION OF FAMES

Column: **TR-WAX**, P/N TR-140262
 Dimensions: 60m x 0.25mm x 0.25 µm
 Injection: 1 µL, split
 Carrier gas: He, 26 psi (179.1 KPa)
 Oven temperature: 60°C @ 30°C/min to 150°C @ 2°C/min to 240°C
 Detector: FID, 275°C



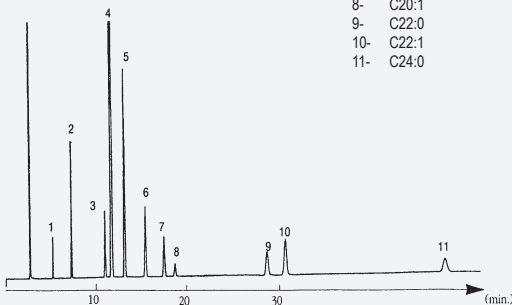
TKG 1177

SEPARATION OF METHYL ESTERS (RAPESEED OIL)

Column: **TRB-WAX**, P/N TR-141035
 Dimensions: 30m x 0.53mm x 1.0 µm
 Injection: 1 µL, split
 Carrier gas: He, 4psi (27.6 KPa)
 Oven temperature: 220°C (Isothermal)
 Detector: FID, 280°C

Peak Name

- 1- C14:0
- 2- C16:0
- 3- C18:0
- 4- C18:1
- 5- C18:2
- 6- C18:3
- 7- C20:0
- 8- C20:1
- 9- C22:0
- 10- C22:1
- 11- C24:0



TKG 1179

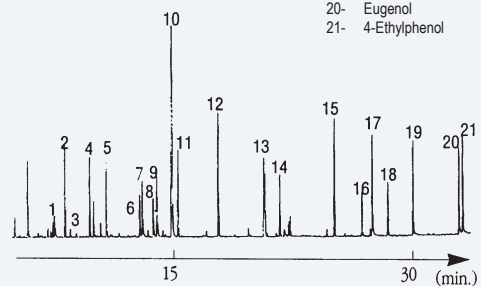
FLAVORS IN WINE

Column: **TRB-WAX**, P/N TR-142168
 Dimensions: 60m x 0.22mm x 0.20 µm
 Injection: 1 µL, split
 Carrier gas: He, 1 mL/min
 Oven temperature: 45°C @ 5°C/min to 230°C
 Detector: FID, 250°C

Peak Name

- 1- 2-Butanol
- 2- Ethyl isovalerate
- 3- 1-Butanol
- 4- Ethyl caproate
- 5- n-Hexyl acetate
- 6- Ethyl lactate
- 7- 1-Hexanol
- 8- 3-Ethoxy-1-propanol
- 9- cis-3-hexen-1-ol
- 10- 2-Octanol (l. St.)
- 11- Ethyl caprylate
- 12- Benzaldehyde
- 13- Ethyl caprate
- 14- γ-Butyrolactone
- 15- 2-Phenylethanol acetate
- 16- Trans-β-methyl-γ-octalactone
- 17- 2-Phenylethanol
- 18- Cis-β-methyl-γ-octalactone
- 19- 4-Ethylguaiaicol
- 20- Eugenol
- 21- 4-Ethylphenol

Chromatogram provided by M. Creixell,
 R. Franquet and J. Garcia from INCAVI,
 Vilafranca del Penedès, Barcelona.

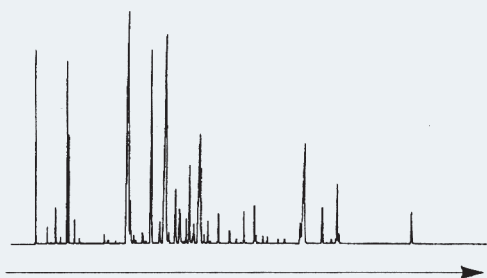


TKG 1180

LAVANDER FLAVOR

Column: **TRB-WAX**, P/N TR-140232
 Dimensions: 30m x 0.25mm x 0.25 μ m
 Injection: 1 μ L, split
 Carrier gas: He, 90 KPa
 Oven temperature: 80°C @ 4°C/min to 230°C(20 min)
 Detector: FID, 260°C

Chromatogram provided by C. Ibañez from Lucta, S.A, Barcelona.

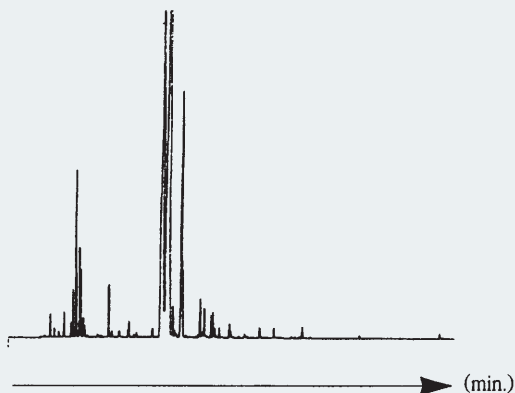


TKG 1181

FLAVORS (LAVANDER, ESSENTIAL OIL)

Column: **TRB-WAX**, P/N TR-140232
 Dimensions: 30m x 0.25mm x 0.25 μ m
 Injection: 1 μ L, split
 Carrier gas: He, 90 KPa
 Oven temperature: 80°C @ 4°C/min to 230°C(20 min)
 Detector: FID, 260°C

Chromatogram provided by C. Ibañez from Lucta, S.A, Barcelona.

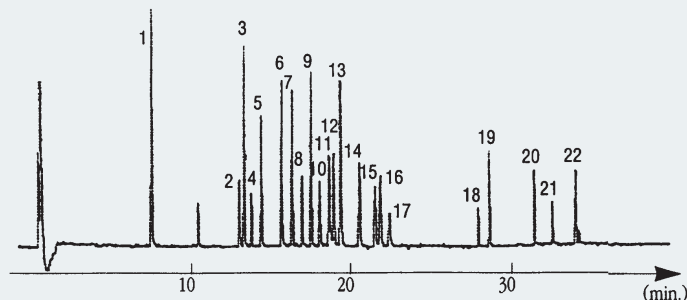


TKG 1182

ANALYSIS OF PESTICIDES

Column: **TRB-5**, P/N TR-120232
 Dimensions: 30m x 0.25mm x 0.25 μ m
 Injection: split
 Carrier gas: He
 Oven temperature: 125°C(1 min) @ 8°C/min to 200°C(10 min) @ 20°C/min to 270°C(15 min)
 Detector: FPD, 280°C

Chromatogram provided by E. Casado from Laboratorio de Plagidas of Centro Nacional de Alimentación y Nutrición, Madrid.



Peak Name

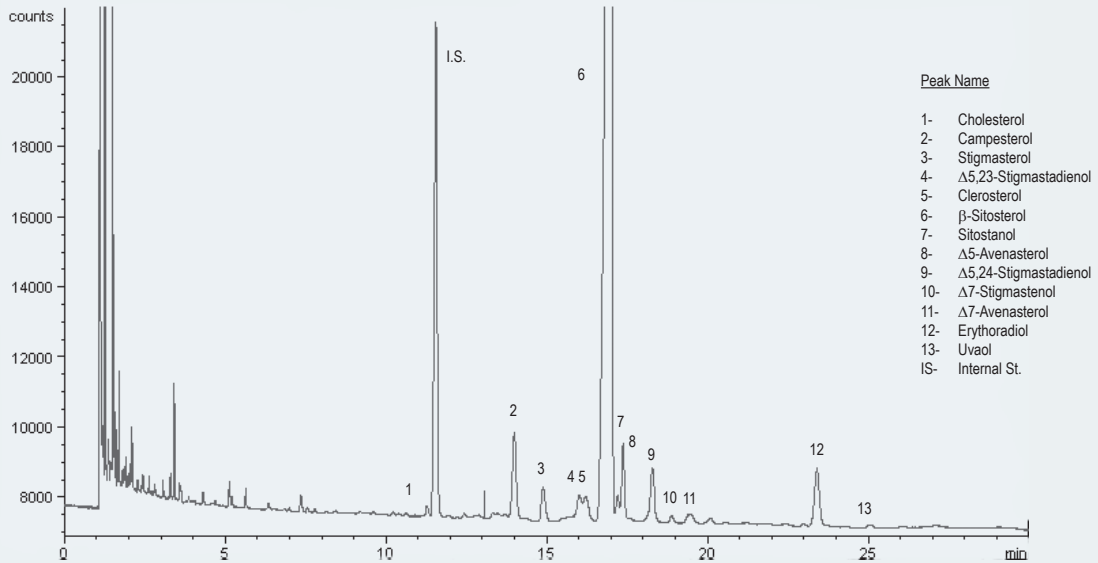
- 1- Metacriphos
- 2- Dioxathion
- 3- Fonofos
- 4- Diazinon
- 5- Etrimfos
- 6- Methyl parathion
- 7- Fenclorphos
- 8- Fenitrothion
- 9- Malathion
- 10- Ethyl parathion
- 11- Ruelene
- 12- Methyl bromophos
- 13- Ethyl pyrimphos
- 14- Isofenphos
- 15- Meditathion
- 16- Ethyl bromophos
- 17- Gardona
- 18- Ethion
- 19- Trithion
- 20- Fosalon
- 21- Cumaphos

TKG 1183

STEROLS ANALYSIS (REFINATED OLIVE OIL)

Column: **TRB-STEROL**, P/N TR-182238
 Dimensions: 30m x 0.22mm x 0.22 µm
 Injection: split
 Carrier gas: H₂, 20 psi (137.8 KPa)
 Oven temperature: 275°C (Isothermal)
 Detector: FID, 300°C

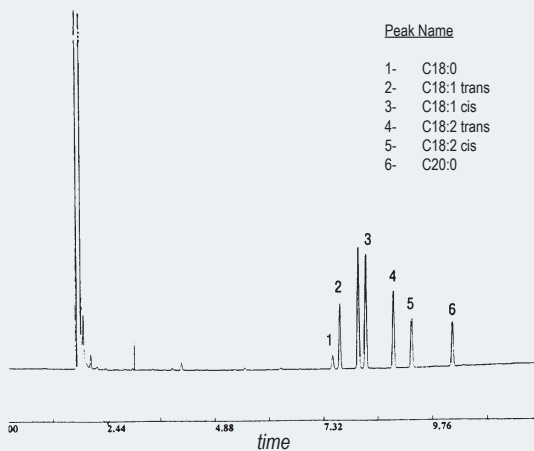
Chromatogram provided by Dr. Manuel León from Instituto de la Grasa, Sevilla



TKG 1184

ANALYSIS OF CIS-TRANS ISOMERS

Column: **TR-CN100**, P/N TR-882133
 Dimensions: 30m x 0.32mm x 0.20mm
 Injection: 1 µL isomers standard, split
 Carrier gas: H₂, 4.5 psi (31 KPa)
 Oven temperature: 140°C @ 4°C/min to 190°C
 Detector: FID, 250°C

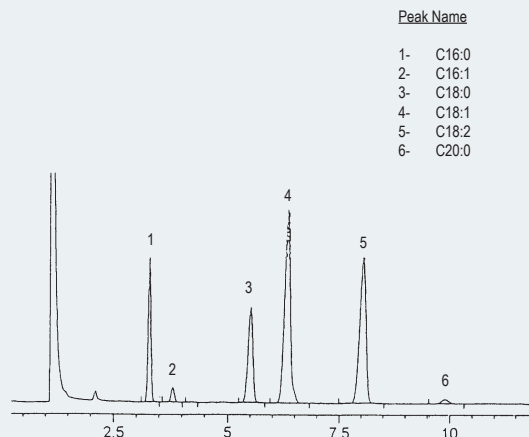


TKG 1185

ANALYSIS OF METHYL ESTERS

Column: **TR-CN100**, P/N TR-882135
 Dimensions: 30m x 0.53mm x 0.20 µm
 Injection: 2 µL FAMES standard, split
 Carrier gas: He, 20 KPa
 Oven temperature: 130°C(5 min) @ 3°C/min to 160°C
 Detector: FID, 250°C

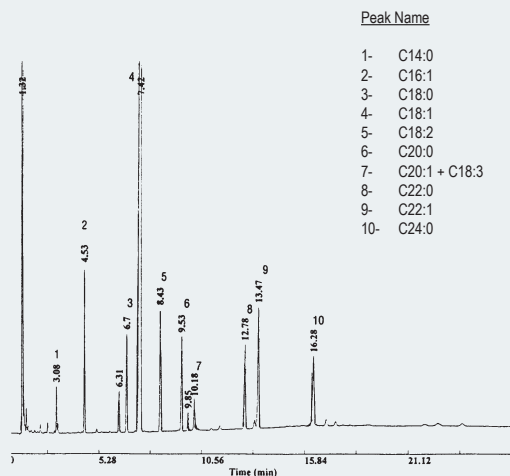
Chromatogram provided by Dr. R. Garcés from Instituto de la Grasa, Sevilla.



TKG 1186

ANALYSIS OF METHYL ESTERS

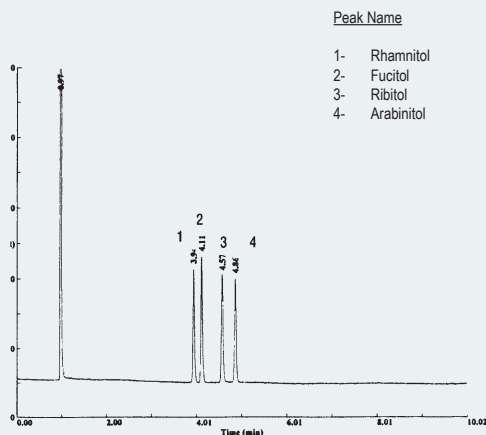
Column: **TR-CN100**, P/N TR-882113
 Dimensions: 15m x 0.32mm x 0.20 µm
 Injection: 1 µL FAMES standard, split
 Carrier gas: H₂, 2.4 psi (16.6 KPa)
 Oven temperature: 140°C @ 3°C/min to 185°C
 Detector: FID, 250°C



TKG 1187

SEPARATION OF SUGARS (AS ALDITOL ACETATES)

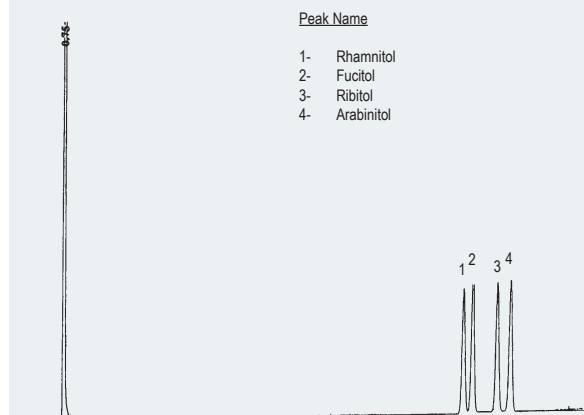
Column: **TRB-225**, P/N TR-250232
 Dimensions: 30m x 0.25mm x 0.25 µm
 Injection: 1 µL Sugars standard, split
 Carrier gas: H₂, 11 psi (75.8 KPa)
 Oven temperature: 220°C (Isothermal)
 Detector: FID, 250°C



TKG 1188

SEPARATION OF SUGARS (AS ALDITOL ACETATES)

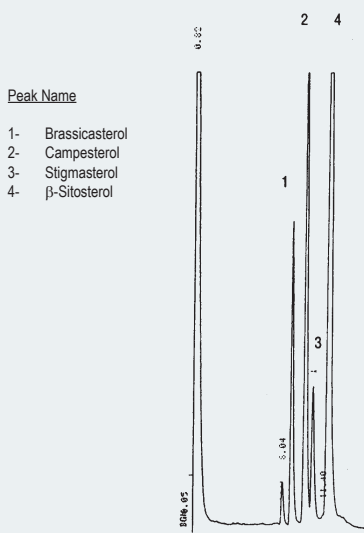
Column: **TRB-1701**, P/N TR-130212
 Dimensions: 15m x 0.25mm x 0.25 µm
 Injection: 1 µL Sugars standard, split
 Carrier gas: H₂, 6 psi (41.3 KPa)
 Oven temperature: 180°C @ 4°C/min to 215°C
 Detector: FID, 250°C



TKG 1189

SEPARATION OF STEROLS

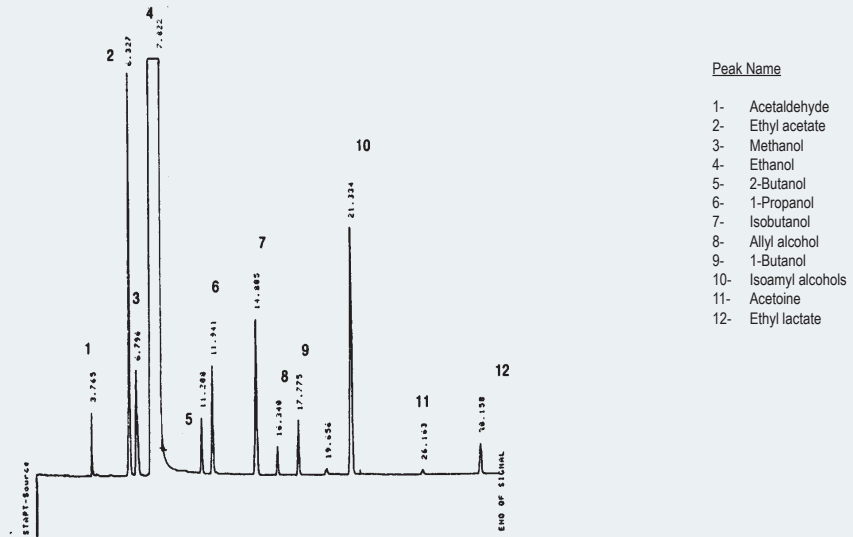
Column: **TRB-5**, P/N TR-120535
 Dimensions: 30m x 0.53mm x 0.50 µm
 Injection: 0.1 µL Sterols standard, direct injection
 Carrier gas: H₂, 4 psi (27.6 KPa)
 Oven temperature: 275°C (Isothermal)
 Detector: FID, 300°C



TKG 1190

SEPARATION OF VOLATILES IN ALCOHOLIC BEVERAGES

Column: **TRB-WAX**, P/N TR-141035
 Dimensions: 30m x 0.53mm x 1.0 µm
 Injection: 0.3 µL standard, direct injection (injector of packed columns)
 Carrier gas: N₂, 4.5 mL/min
 Oven temperature: 40°C @ 2°C/min to 110°C
 Detector: FID, 250°C



- Peak Name
- 1- Acetaldehyde
 - 2- Ethyl acetate
 - 3- Methanol
 - 4- Ethanol
 - 5- 2-Butanol
 - 6- 1-Propanol
 - 7- Isobutanol
 - 8- Allyl alcohol
 - 9- 1-Butanol
 - 10- Isoamyl alcohols
 - 11- Acetoin
 - 12- Ethyl lactate

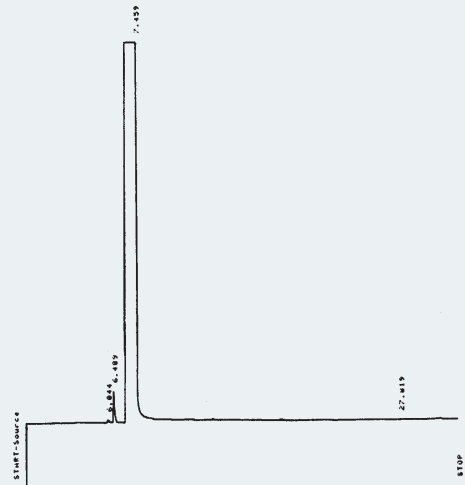
TKG 1191-A

Distillated alcohol

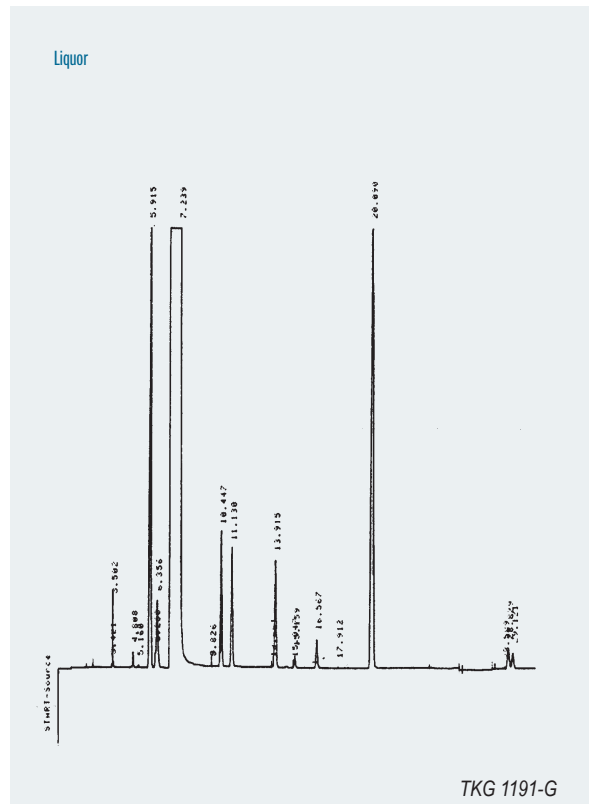
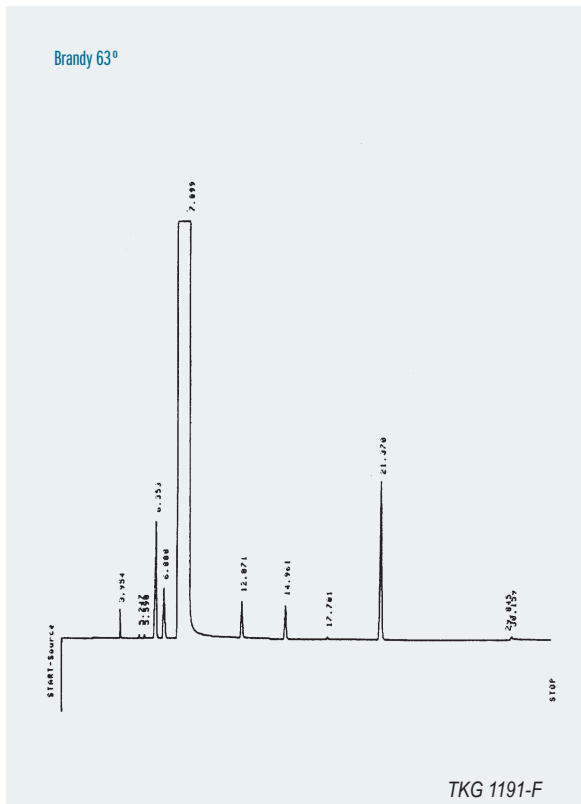
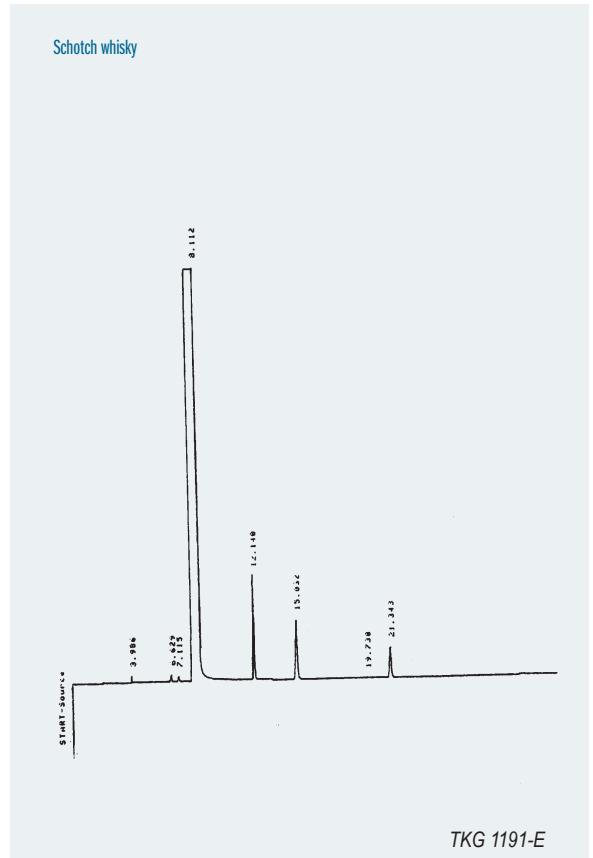
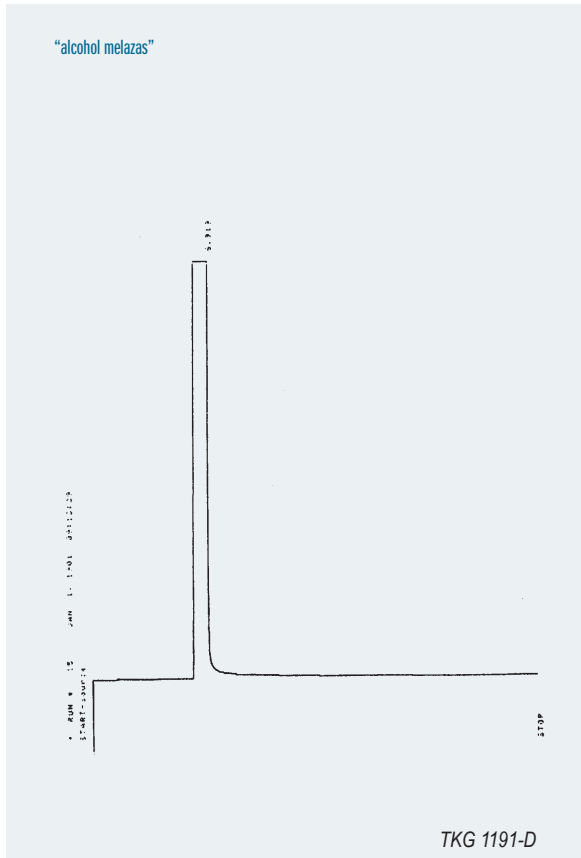


TKG 1191-B

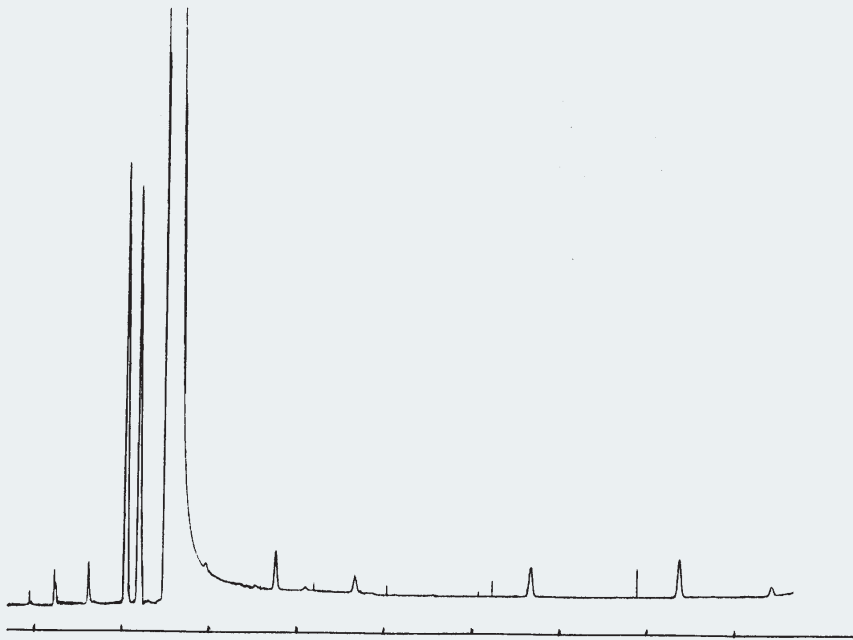
Rectified alcohol



TKG 1191-C

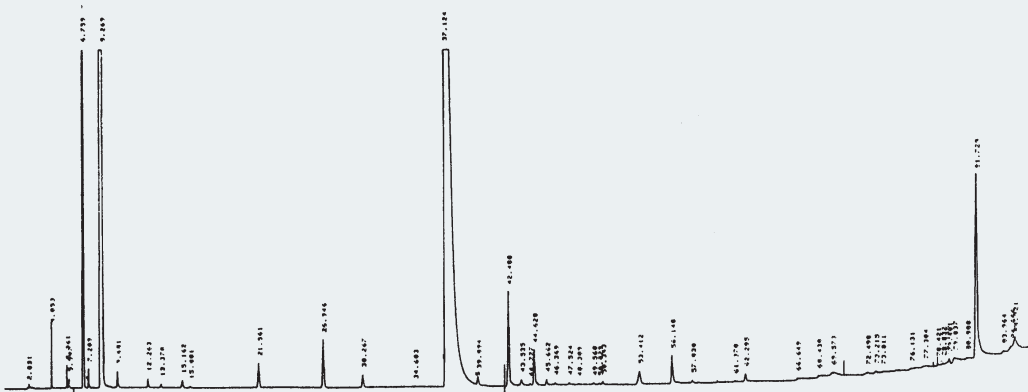


Gin



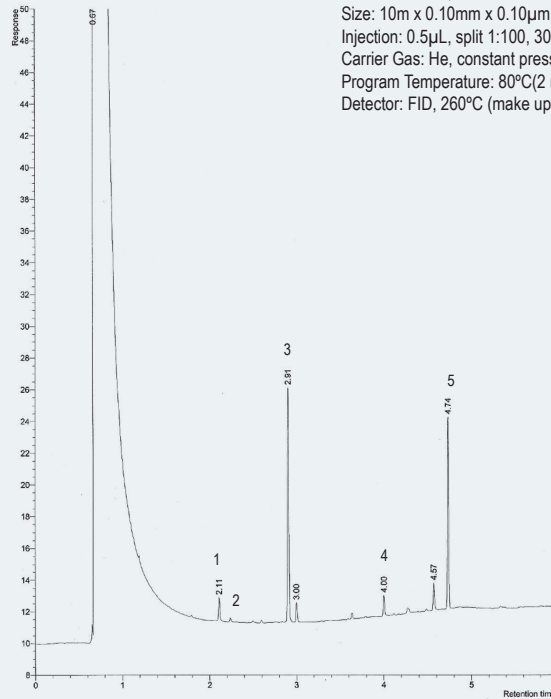
TKG 1191-H

Jerez Vinegar



TKG 1191-I

EXTRACT OF ROSEMARY IN N-PENTANE



Column: **TRB-1**, P/N TR-110141
 Size: 10m x 0.10mm x 0.10µm
 Injection: 0.5µL, split 1:100, 300°C (liner 1mm)
 Carrier Gas: He, constant pressure 35 psi (0.4mL/min)
 Program Temperature: 80°C(2 min) @ 20°C/min to 250°C(5 min)
 Detector: FID, 260°C (make up N2, 60 mL/min)

Peak Name	Retention Time (min)
1 α-Pinene	2.11
2 Camphene	2.11
3 Eucalyptol	2.81
4 1,7,7-Tricamphor	4.00
5 Verbenone	4.74

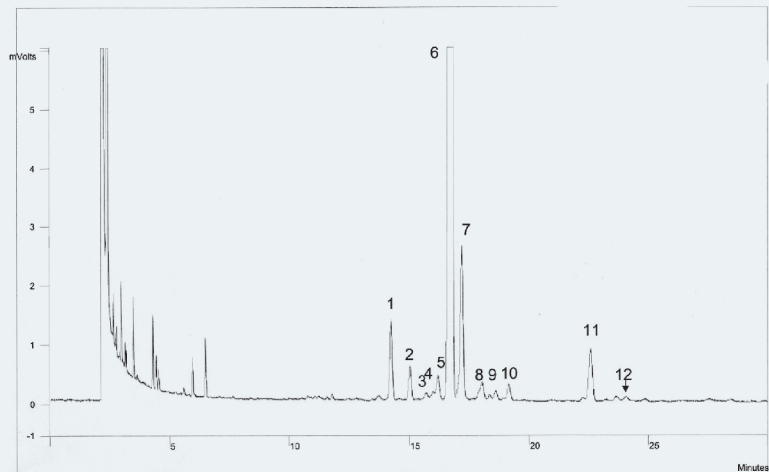
TKG 1196

STEROLS IN OLIVE OIL

Column: **TRB-STEROL**, P/N TR-180738
 Size: 30m x 0.22mm x 0.12µm
 Injection: 1 µL olive oil in diethyl ether (extraction following norm), split 1:30, 250°C
 Carrier Gas: H₂, constant flow 1.6 mL/min
 Oven Temperature: 285°C
 Detector: FID, 320°C

Peak Name

- 1 Campesterol
- 2 Stigmasterol
- 3 Δ⁷-Campesterol
- 4 Δ^{5,23}-Stigmastadienol
- 5 Clerosterol
- 6 β-Sitosterol
- 7 Δ⁵-Avenasterol
- 8 Δ^{5,24}-Stigmastadienol
- 9 Δ⁷-Stigmasterol
- 10 Δ⁷-Avenasterol
- 11 Eritrodiol
- 12 Uvaol



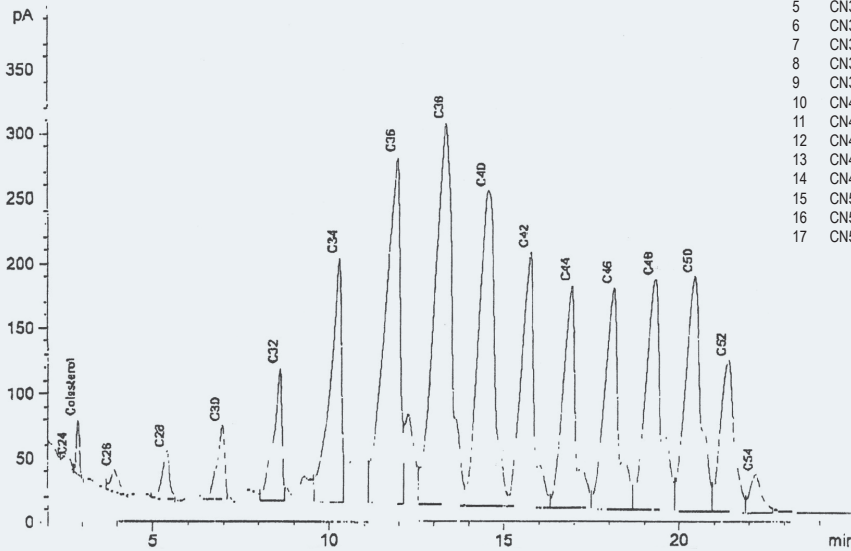
Chromatogram provided by Dr. Manuel León, Instituto de la Grasa (Sevilla).

TKG 1197

TRIGLYCERIDES IN MILKY FAT

Column: **TRB-1ht SimDist**, P/N TR-6113A5 INOX
 Size: 5m x 0.53mm x 0.15µm
 Injection: 1 µL triglycerides of milky fat standard BCR, 370°C, split
 Carrier Gas: He, 15 psi
 Program Temperature: 200°C(1 min) @ 6°C/min to 350°C(5 min)
 Detector: FID, 370°C (N2 make up)

Chromatogram provided by Pablo Ramos Balbona , Remy Picot (Navia, Asturias)



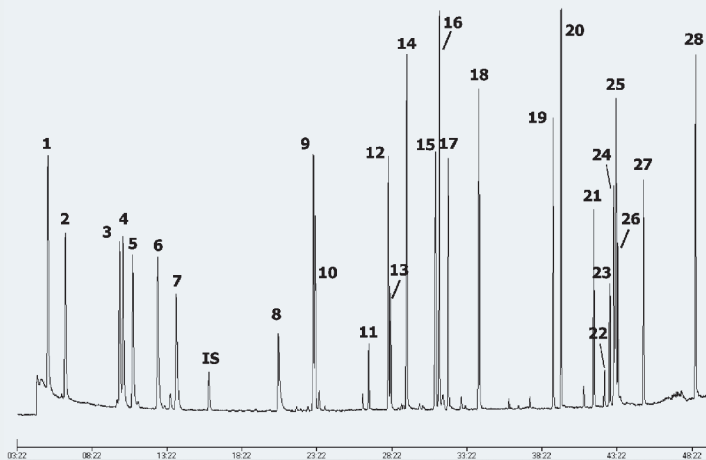
Peak	Peak Name
1	CN24
2	Cholesterol
3	CN26
4	CN28
5	CN30
6	CN32
7	CN34
8	CN36
9	CN38
10	CN40
11	CN42
12	CN44
13	CN46
14	CN48
15	CN50
16	CN52
17	CN54

TKG 1230

ALLERGENS IN COSMETICS

Column: **TRB-WAX**, P/N TR-140232
 Size: 30m x 0.25mm x 0.25µm
 Injection: 1 µl standard (25 µg/ml) in dichloromethane, splitless (60s), 250°C
 Carrier Gas: He, 1mL/min
 Program temperature: 32°C (5min) @ 4°C/min to 250°C (5min)
 Detector: MS KONIK-TECH, Mode EI+ (70 eV), rango mas 35-300, Scan time 35ms,
 Source Temperature 120°C, Interface 250°C, Photomultiplier 750V.

Chromatogram provided by Nieves Sarrion from KONIK-TECH, S.A (Barcelona).



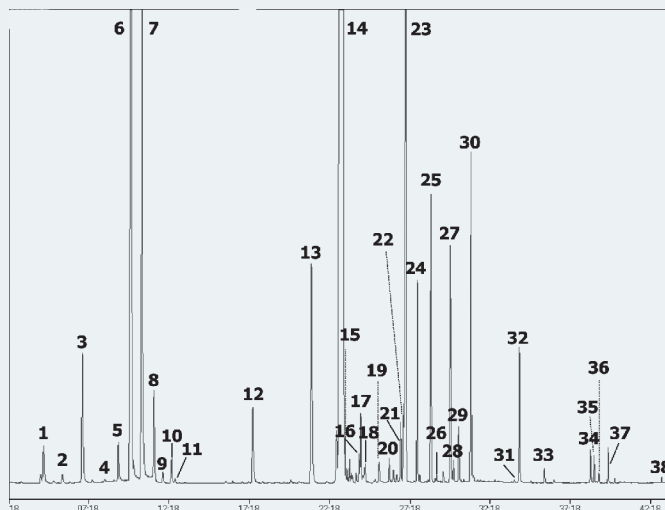
Peak	Peak Name
1	α-Pinene
2	Camphene
3	β-Myrcene
4	α-Terpinene
5	Limonene
6	γ-Terpinene
7	Terpinolene
8	β-citronellal
9	Linalool
10	Linalyl acetate
11	Neral
12	s-Carvone
13	Geranial
14	β-Citronellol
15	α-
16	Geraniol
17	Benzyl alcohol
18	Hydroxycitronellal
19	Eugenol
20	Thymol
21	Cinnamyl alcohol
22	Farnesol (1)
23	Farnesol (2)
24	Isoeugenol
25	Hexyl cinnamal
26	Farnesol (3)
27	Coumarine
28	Benzyl benzoate
IS	Ethyl heptanoate

TKG 1199

Column: **TRB-WAX**, P/N TR-140232
 Size: 30m x 0.25mm x 0.25µm
 Injection: split 1:30, 250°C (liner SPME, fibra: 2cm 50/30 µm DVB/Carboxen/PDMS)
 Sample: 5 µl soap in 4 mL of water (26.6% NaCl)
 Carrier gas: He, 1mL/min
 Program temperature: 32°C (5min) @ 4°C/min to 250°C (5min)
 Detector: MS KONIK-TECH, Mode EI+ (70 eV), range mass 35-300, Scan time 35ms,
 Source Temperature 120°C, Interface Temperature 250°C, Photomultiplier 750V.

Peak Name

- 1 α-Pinene
- 2 Camphene
- 3 β-Pinene
- 4 3-Carene
- 5 β-Myrcene
- 6 Limonene
- 7 Eucalyptol
- 8 γ-Terpinene
- 9 cis-β-Cymene
- 10 p-Cymene
- 11 Terpinolene
- 12 Methyl octanoate
- 13 (-)-Camphor
- 14 Linalool
- 15 Linalyl acetate
- 16 Methyl decanoate
- 17 4-Terpineol
- 18 Linalyl isobutyrate
- 19 (-)-Menthol
- 20 Citronellol acetate
- 21 Terpineol acetate
- 22 (-)-Borneol
- 23 α-Terpineol
- 24 Nerol acetate
- 25 Geraniol acetate
- 26 Citronellyl
- 27 Nerol
- 28 β-Phenethyl
- 29 Estragole
- 30 Geraniol
- 31 Hydroxycitronellal
- 32 1-Undecanol
- 33 Cinnamal
- 34 Eugenol
- 35 Nerolin
- 36 Thymol
- 37 Carvacrol
- 38 DEP



Chromatogram provided by Nieves Sarrion de KONIK-TECH, S.A

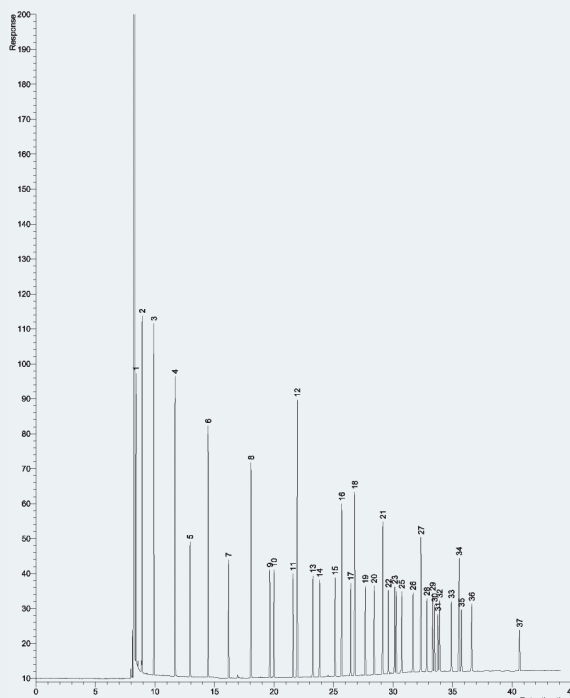
TKG 1228

SEPARATION OF METHYL ESTERS (FAMES)

Column: **TR-CN100**, P/N TR-882192
 Size: 100m x 0.25mm x 0.20µm
 Injection: 1µL Total FAMES en CH₂Cl₂ (30 mg/mL), split 1:100, 260°C
 Carrier gas: He 45 psi, 21 cm/s (140°C)
 Program temperature: 140°C(6min) @ 4°C/min to 240°C(10min)
 Detector: FID, 260°C

Peak Name

- | | |
|---------------------------------|--|
| 1 C4:0 (butyric) | 20 C18:2n6c (linoleic) |
| 2 C6:0 (caproic) | 21 C20:0 (arachidic) |
| 3 C8:0 (caprylic) | 22 C18:3n6 (γ-linolenic) |
| 4 C10:0 (capric) | 23 C20:1n9 (cis-11-eicosenoic) |
| 5 C11:0 (undecanoic) | 24 C18:3n3 (α-linolenic) |
| 6 C12:0 (lauric) | 25 C21:0 (heneicosanoic) |
| 7 C13:0 (tridecanoic) | 26 C20:2 (cis-11,14-eicosadienoic) |
| 8 C14:0 (myristic) | 27 C22:0 (behenic) |
| 9 C14:1 (myristoleic) | 28 C20:3n6 (cis-8,11,14-eicosatrienoic) |
| 10 C15:0 (pentadecanoic) | 29 C22:1n9 (erucic) |
| 11 C15:1 (cis-10-pentadecanoic) | 30 C20:3n3 (cis-11,14,17-eicosatrienoic) |
| 12 C16:0 (palmitic) | 31 C20:4n6 (arachidonic) |
| 13 C16:1 (palmitoleic) | 32 C23:0 (tricosanoic) |
| 14 C17:0 (heptadecanoic) | 33 C22:2 (cis-13,16-docosadienoic) |
| 15 C17:1 (cis-10-heptadecenoic) | 34 C24:0 (lignoceric) |
| 16 C18:0 (stearic) | 35 C20:5n3 (cis-5,8,11,14,17-eicosapentaenoic) |
| 17 C18:1n9t (elaidic) | 36 C24:1 (nervonic) |
| 18 C18:1n9c (oleic) | 37 C22:6n3 (cis-4,7,10,13,16,19-docosahexaenoic) |
| 19 C18:2n6t (linolelaidic) | |



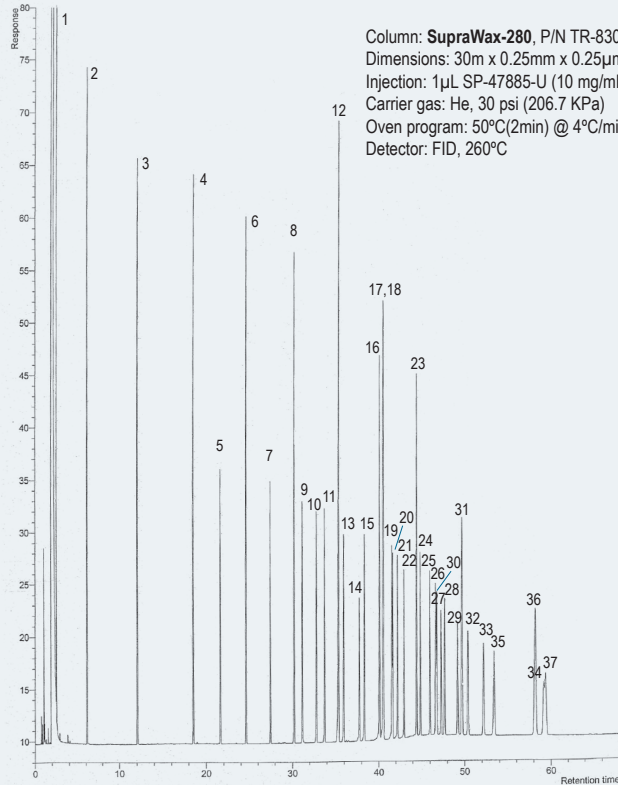
TKG 1228

Peak Name

- 1 C6:0
- 1- C4:0 (butyric)
- 2- C6:0 (caproic)
- 3- C8:0 (caprylic)
- 4- C10:0 (capric)
- 5- C11:0 (undecanoic)
- 6- C12:0 (lauric)
- 7- C13:0 (tridecanoic)
- 8- C14:0 (myristic)
- 9- C14:1 (myristoleic)
- 10- C15:0 (pentadecanoic)
- 11- C15:1 (cis-10-pentadecanoic)
- 12- C16:0 (palmitic)
- 13- C16:1 (palmitoleic)
- 14- C17:0 (heptadecanoic)
- 15- C17:1 (cis-10-heptadecenoic)
- 16- C18:0 (stearic)
- 17- C18:1n9c (oleic) + C18:1n9t (elaidic)
- 18- C18:2n6c (linoleic)
- 19- C18:2n6t (linolelaidic)
- 20- C18:3n6 (γ-linolenic)
- 21- C18:3n3 (α-linolenic)
- 22- C20:0 (arachidic)
- 23- C20:1n9 (cis-11-eicosenoic)
- 24- C20:2 (cis-11,14-eicosadienoic)
- 25- C20:3n6 (cis-8,11,14-eicosatrienoic)
- 26- C21:0 (heneicosanoic)
- 27- C20:3n3 (cis-11,14,17-eicosatrienoic)
- 28- C20:4n6 (arachidonic)
- 29- C20:5n3 (cis-5,8,11,14,17-eicosapentaenoic)
- 30- C22:0 (behenic)
- 31- C22:1n9 (erucic)
- 32- C22:2 (cis-13,16-docosadienoic)
- 33- C23:0 (tricosanoic)
- 34- C24:0 (lignoceric)
- 35- C22:6n3 (cis-4,7,10,13,16,19-docosahexaenoic)
- 36- C24:1n9 (nervonic)

SEPARATION OF FAMES

Column: **SupraWax-280**, P/N TR-830232
 Dimensions: 30m x 0.25mm x 0.25µm
 Injection: 1µL SP-47885-U (10 mg/mL), split 1:100, 260°C
 Carrier gas: He, 30 psi (206.7 KPa)
 Oven program: 50°C(2min) @ 4°C/min to 220°C(15min)
 Detector: FID, 260°C



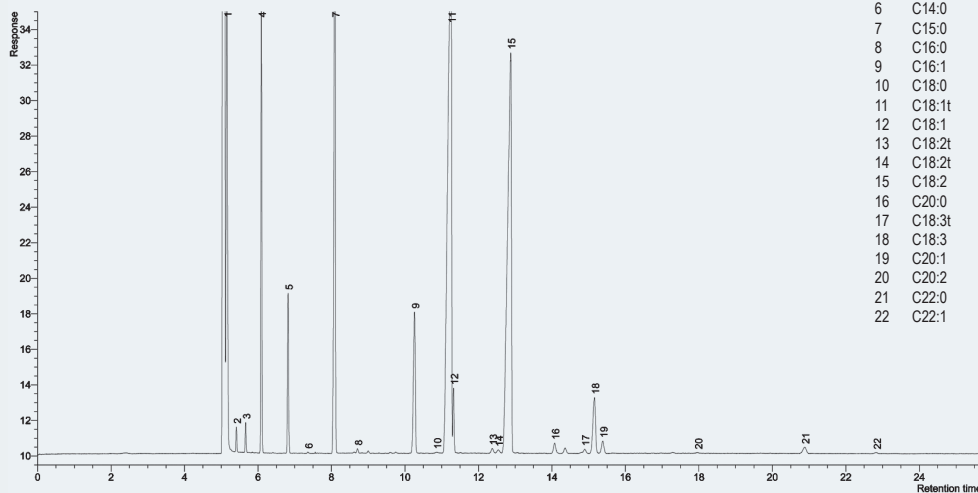
TKG 1237

SEPARATION OF METHYL ESTERS IN SOYA OIL

Column: **TR-CN100**, P/N TR-882162
 Size: 60m x 0.25mm x 0.20µm
 Injection: 1µL Total FAMES en CH₂Cl₂ (30 mg/mL), split 1:100, 280°C
 Carrier gas: He 25 psi
 Program temperature: 185°C
 Detector: FID, 280°C

Peak Name

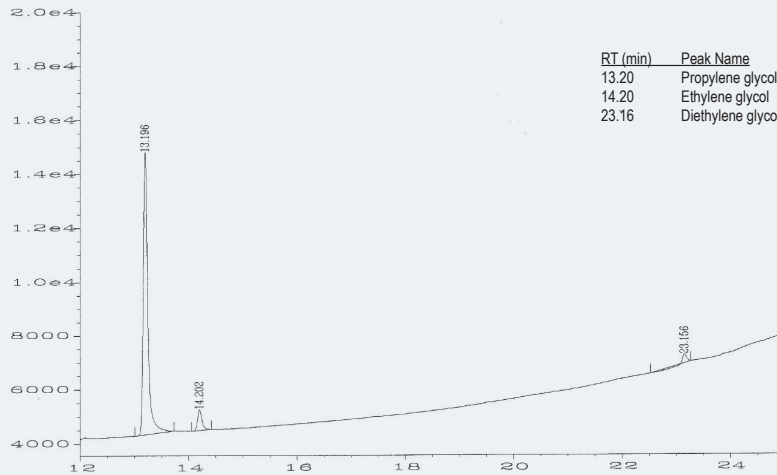
- 1 C6:0
- 2 C8:0
- 3 C10:0
- 4 C12:0
- 6 C14:0
- 7 C15:0
- 8 C16:0
- 9 C16:1
- 10 C18:0
- 11 C18:1t
- 12 C18:1
- 13 C18:2t
- 14 C18:2i
- 15 C18:2
- 16 C20:0
- 17 C18:3t
- 18 C18:3
- 19 C20:1
- 20 C20:2
- 21 C22:0
- 22 C22:1



TKG 1239

GLYCOLS IN WINE

Column: **SupraWAX-280**, P/N TR-831035
 Size: 30m x 0.53mm x 1.0µm
 Injection: 1 µL split 1:50, 220°C
 Carrier gas: He, 5.4 psi
 Program temperature: 100°C (3min) @ 4.5°C/min to 220°C (10min)
 Detector: FID, 260°C



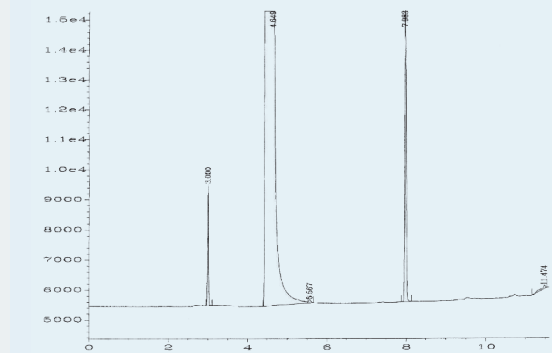
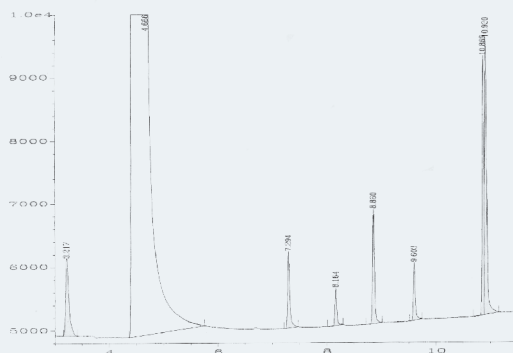
Chromatogram provided by R. Franquet and Joan Garcia from INCAVI (Vilafranca del Penedés, Barcelona)

TKG 1241

METHANOL AND HIGHER ALCOHOLS

Column: **TRB-624**, P/N TR-601432
 Size: 30m x 0.25mm x 1.4µm
 Injection: 1 µL split 1:50, 250°C
 Carrier gas: He, 1mL/min
 Program temperature: 40°C (5min) @ 20°C/min to 200°C (3min)
 Detector: FID, 260°C

RT (min)	Peak Name
3.21	Methanol
4.66	Ethanol
7.29	1-Propanol
8.16	2-Butanol
8.86	Isobutanol
9.60	1-Butanol
10.87	Isoamyl alcohol
10.92	Isoamyl alcohol

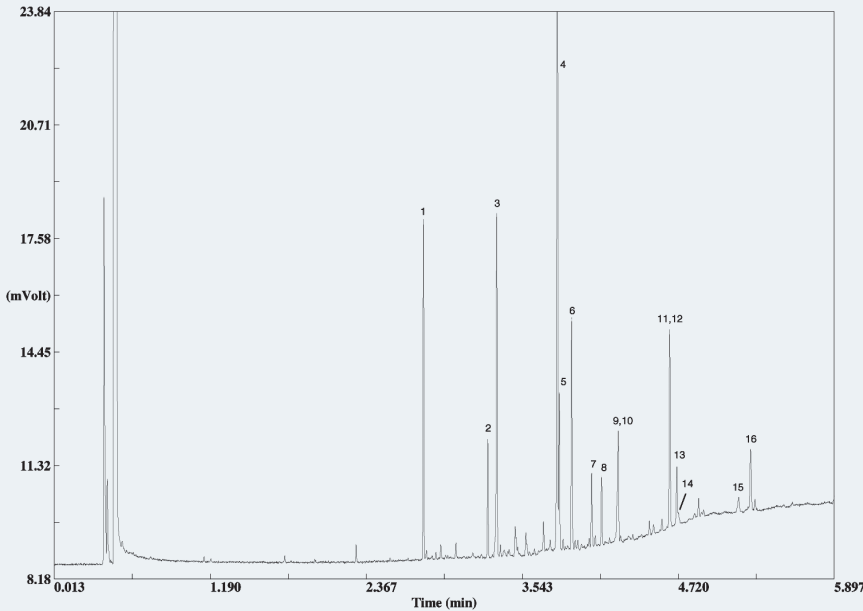


Chromatogram provided by Joan Garcia from INCAVI (Vilafranca del Penedés, Barcelona)

TKG 1242

PUFA I

Column: **SupraWax-280**, 15m x 0.10mm x 0.10µm (P/N: TR-830111)
 Injection: 280°C, split 200:1, precision liner
 Detector: FID, 280°C
 Carrier Gas: H₂, 45 psi (310.05 KPa)
 Oven: 100°C (0.5min) @ 50°C/min to 280°C (2min)
 Sample: 0.2µL PUFA I - Marine Source diluted to 50mg/ml in methylene chloride



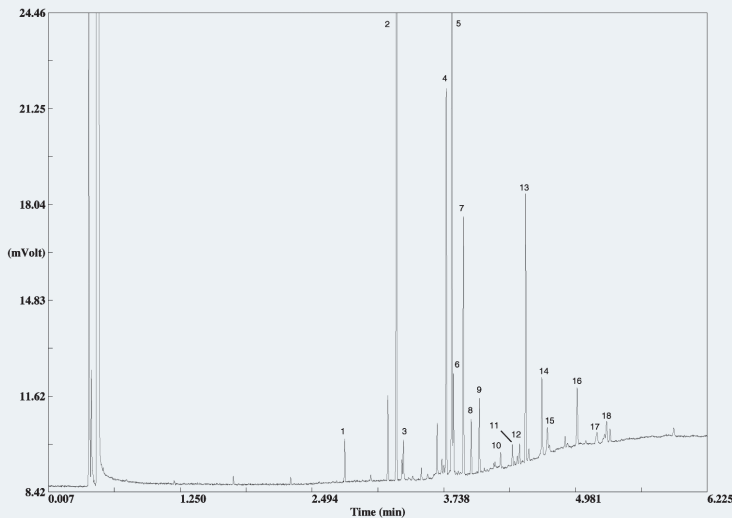
Peak Name

1. C14:0
2. C16:0
3. C16:1ω7
4. C18:1ω9
5. C18:1ω7
6. C18:2ω6
7. C18:3ω3
8. C18:4ω3
9. C20:1ω9
10. C20:1ω11
11. C20:4ω3
12. C20:5ω3
13. C22:1ω11
14. C22:1ω9
15. C22:5ω3
16. C22:6ω3

TKG 1248

PUFA II

Column: **SupraWax-280**, 15m x 0.10mm x 0.10µm (P/N: TR-830111)
 Injection: 280°C, split 200:1, precision liner
 Detector: FID, 280°C
 Carrier Gas: H₂, 45 psi (310.05 KPa)
 Oven: 100°C (0.5min) @ 50°C/min to 280°C (2min)
 Sample: 0.2µL PUFA II - Animal Source diluted to 50mg/ml in methylene chloride



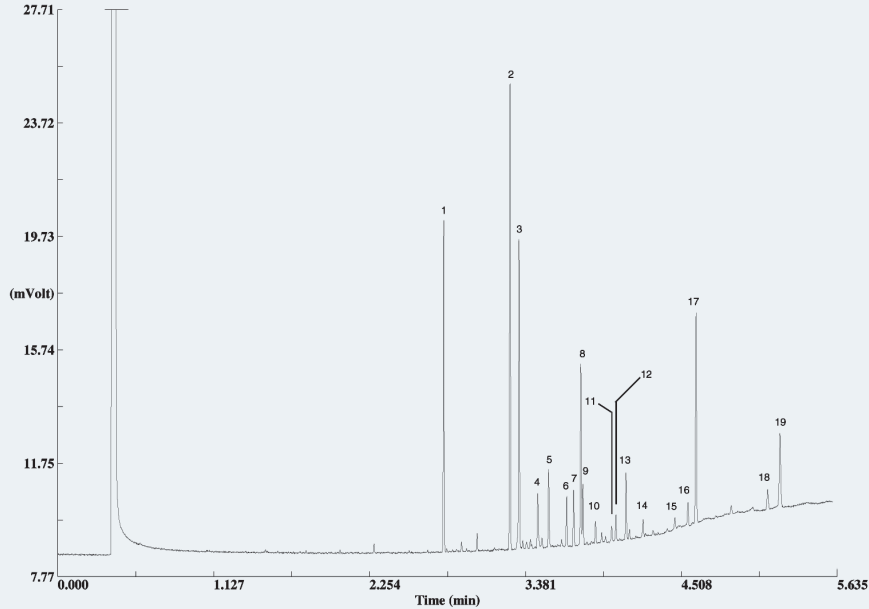
Peak Name

1. C14:0
2. C16:0
3. C16:1ω7
4. C18:0
5. C18:1ω9
6. C18:1ω7
7. C18:2ω6
8. C18:3ω6
9. C18:3ω3
10. C20:1ω9
11. C20:2ω6
12. C20:3ω6
13. C20:4ω6
14. C20:5ω3
15. C22:1ω9
16. C22:4ω6
17. C22:5ω3
18. C24:1

TKG 1249

PUFA III

Column: **SupraWax-280**, 15m x 0.10mm x 0.10µm (P/N: TR-830111)
 Injection: 280°C, split 200:1, precision liner
 Detector: FID, 280°C
 Carrier Gas: H₂, 45 psi
 Oven: 100°C (0.5min) to 280°C @ 50°C/min (2min)
 Sample: 0.1µL PUFA III – Partially Hydrogenate Menhaden Oil diluted to 100mg/ml in hexane

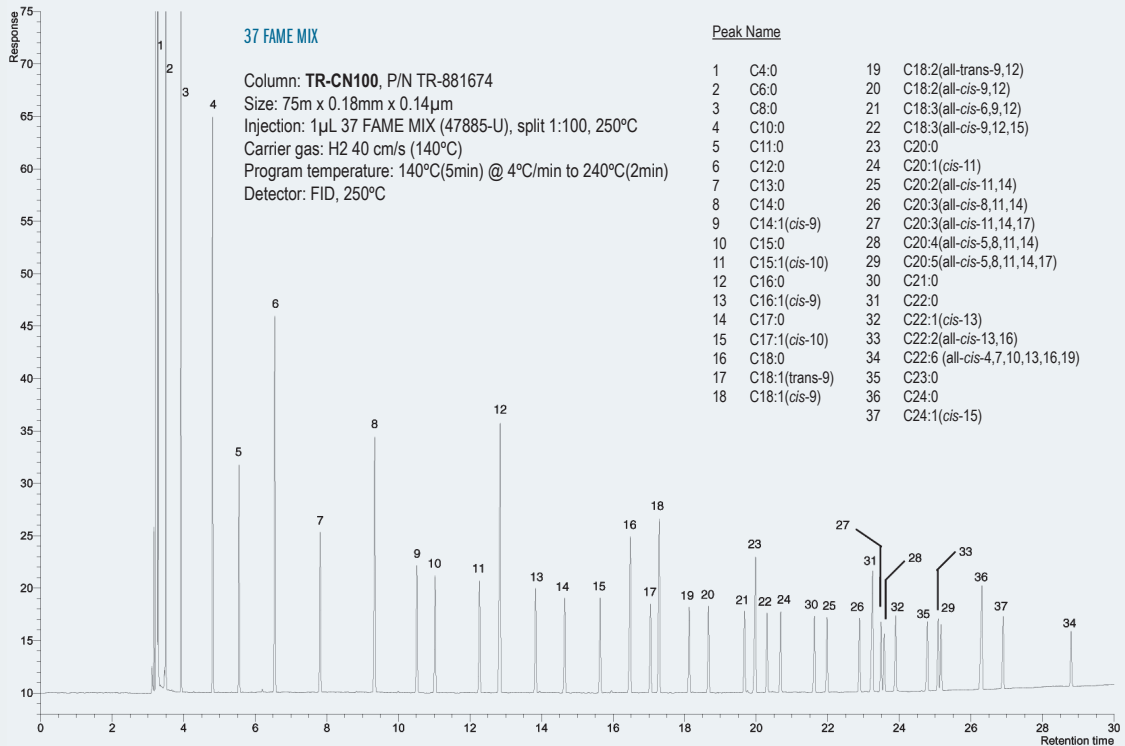


Peak Name
1. C14:0
2. C16:0
3. C16:1ω7
4. C16:2ω4
5. C16:3ω4
6. C16:4ω1
7. C18:0
8. C18:1ω9
9. C18:1ω7
10. C18:2ω6
11. C18:3ω4
12. C18:3ω3
13. C18:4ω3
14. C20:1ω9
15. C20:4ω6
16. C20:4ω3
17. C20:5ω3
18. C22:5ω3
19. C22:6ω3

TKG 1253

37 FAME MIX

Column: **TR-CN100**, P/N TR-881674
 Size: 75m x 0.18mm x 0.14µm
 Injection: 1µL 37 FAME MIX (47885-U), split 1:100, 250°C
 Carrier gas: H₂ 40 cm/s (140°C)
 Program temperature: 140°C(5min) @ 4°C/min to 240°C(2min)
 Detector: FID, 250°C



Peak Name
1 C4:0
2 C6:0
3 C8:0
4 C10:0
5 C11:0
6 C12:0
7 C13:0
8 C14:0
9 C14:1(cis-9)
10 C15:0
11 C15:1(cis-10)
12 C16:0
13 C16:1(cis-9)
14 C17:0
15 C17:1(cis-10)
16 C18:0
17 C18:1(trans-9)
18 C18:1(cis-9)
19 C18:2(all-trans-9,12)
20 C18:2(all-cis-9,12)
21 C18:3(all-cis-6,9,12)
22 C18:3(all-cis-9,12,15)
23 C20:0
24 C20:1(cis-11)
25 C20:2(all-cis-11,14)
26 C20:3(all-cis-8,11,14)
27 C20:3(all-cis-11,14,17)
28 C20:4(all-cis-5,8,11,14)
29 C20:5(all-cis-5,8,11,14,17)
30 C21:0
31 C22:0
32 C22:1(cis-13)
33 C22:2(all-cis-13,16)
34 C22:6 (all-cis-4,7,10,13,16,19)
35 C23:0
36 C24:0
37 C24:1(cis-15)

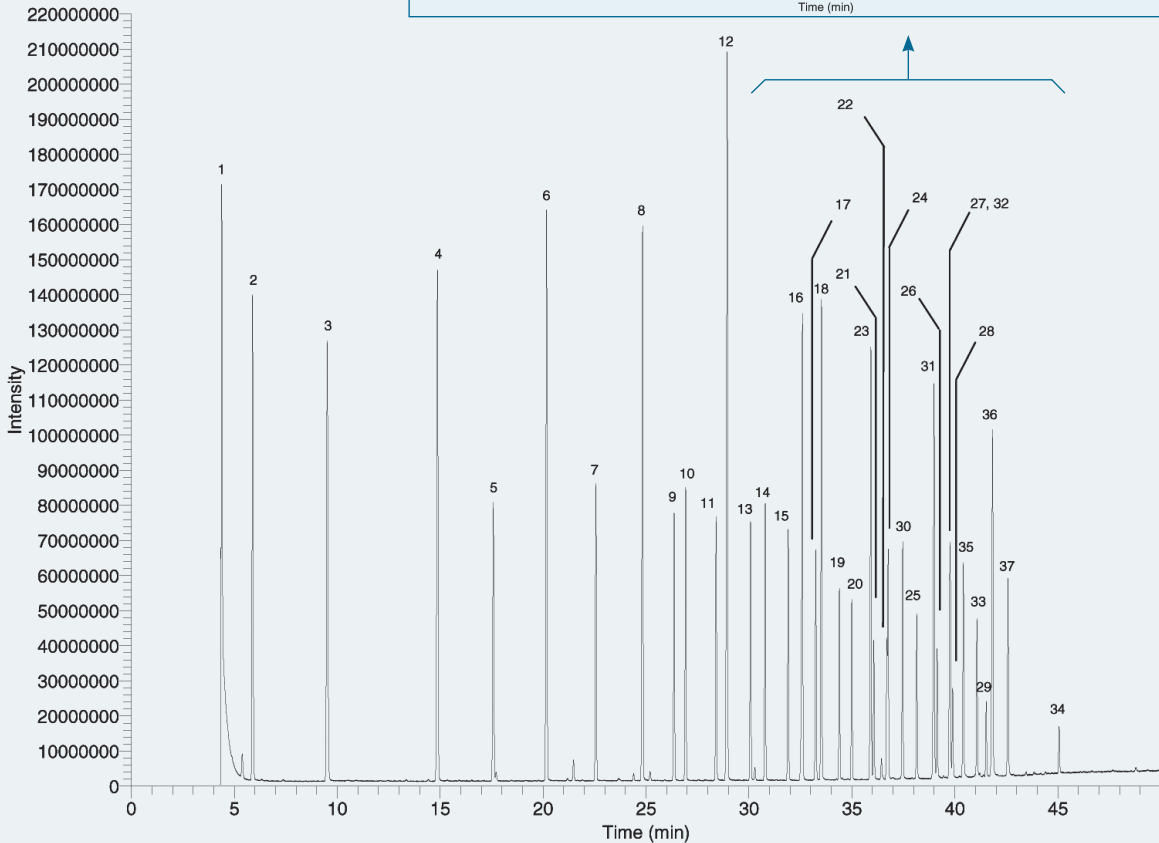
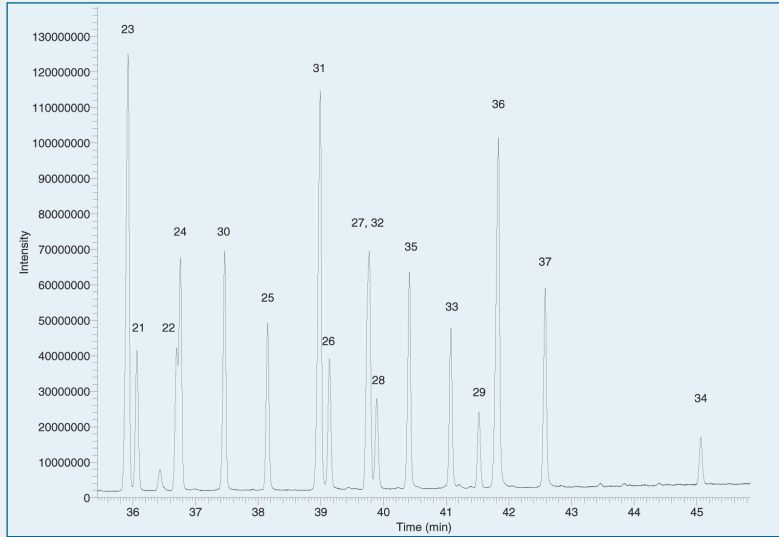
TKG 1250

37 FAME MIX- MS DETECTOR

Column: **TR-CN100**, 60m x 0.25mm x 0.20µm (P/N: TR-882162)
 Injection: 280°C, split 50:1
 Oven: 90°C (7min) to 240°C @ 4°C/min (3min)
 Carrier gas: Helium, constant pressure @ 24psi
 Detector: MS
 Transfer line temp.: 230°C
 Ionization mode: EI
 Scan range: 40-450amu
 Sample: 0.5µL Food Industry FAME Mix 30mg/ml in methylene chloride

Peak Name

1	C4:0	19	C18:2(all-trans-9,12)
2	C6:0	20	C18:2(all-cis-9,12)
3	C8:0	21	C18:3(all-cis-6,9,12)
4	C10:0	22	C18:3(all-cis-9,12,15)
5	C11:0	23	C20:0
6	C12:0	24	C20:1(cis-11)
7	C13:0	25	C20:2(all-cis-11,14)
8	C14:0	26	C20:3(all-cis-8,11,14)
9	C14:1(cis-9)	27	C20:3(all-cis-11,14,17)
10	C15:0	28	C20:4(all-cis-5,8,11,14)
11	C15:1(cis-10)	29	C20:5(all-cis-5,8,11,14,17)
12	C16:0	30	C21:0
13	C16:1(cis-9)	31	C22:0
14	C17:0	32	C22:1(cis-13)
15	C17:1(cis-10)	33	C22:2(all-cis-13,16)
16	C18:0	34	C22:6(all-cis-4,7,10,13,16,19)
17	C18:1(trans-9)	35	C23:0
18	C18:1(cis-9)	36	C24:0
		37	C24:1(cis-15)



TKG 1251

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Amantadine	335	2-Butanol	74, 75, 332, 333, 379, 381, 388, 389, 393, 400
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Benzo(e)pyrene	349	C17:0 (heptadecanoic acid methyl ester)	69, 76, 77, 85, 385, 389, 398, 399, 402, 403
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Benzyl benzoate	397	C18:0 (stearic acid methyl ester)	69, 73, 76, 77, 85, 380, 383, 385, 389, 391, 392, 398, 399, 402, 403
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β-BHC	42, 352, 353, 354, 372, 378	C18:1n6c (petroselinic acid methyl ester)	69, 76, 77, 385, 389, 398, 399, 402, 403
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Bis(2-chloroethyl)ether	361	C18:1n9t (elaidic acid methyl ester)	69, 76, 77, 85, 385, 389, 391, 398, 399, 402, 403
Bis(2-chloroisopropyl) ether	361	C18:1n11c (vacconic acid methyl ester)	77
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Bis(2-ethylhexyl) phthalate	361, 373, 376	C18:2n6c (linoleic acid methyl ester)	69, 76, 77, 85, 385, 389, 398, 399, 402, 403
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C20:2 (cis-11,14-eicosadienoic acid methyl ester)	69, 76, 77, 85, 385, 389, 398, 399, 402, 403
C20:3n3 (cis-11,14,17-eicosatrienoic acid methyl ester)	69, 76, 77, 85, 385, 389, 398, 399, 402, 403
C20:3n6 (cis-8,11,14-eicosatrienoic acid methyl ester)	69, 76, 77, 85, 385, 389, 398, 399, 402, 403
C20:4n6 (arachidonic acid methyl ester)	69, 76, 77, 85, 380, 385, 389, 398, 399, 402, 403
C20:5n3 (cis-5,8,11,14,17-eicosapentaenoic)	69, 73, 76, 77, 85, 385, 398, 399, 402, 403
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C22:1n9 (erucic acid methyl ester)	69, 76, 77, 85, 380, 383, 385, 389, 392, 398, 399, 402, 403
C22:2 (cis-13,16-docosadienoic acid methyl ester)	69, 76, 77, 85, 385, 389, 398, 399, 402, 403
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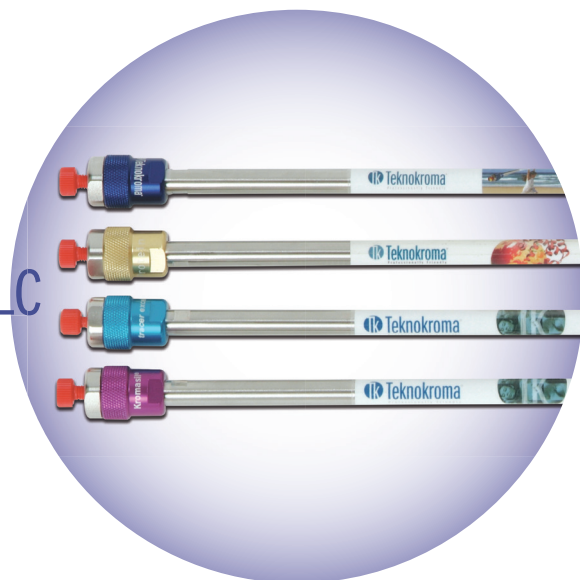
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