

Supplementary Material S1

Chromatograms of OCP analyzes

Supplementary Material 1 Example of a chromatogram report

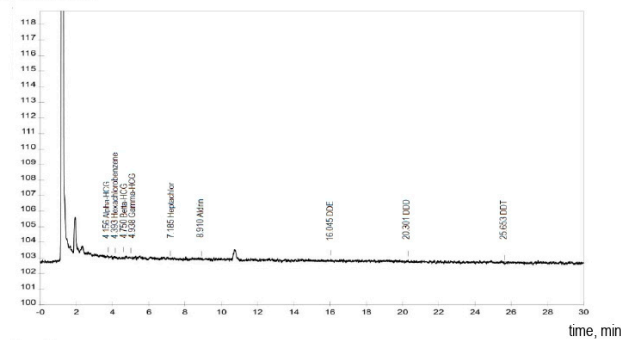
From 12.07.2022, 12:05:18

OCP measurement_070722_114732.stg

Duration 30 minutes

Illustrated chromatogram current

detector response, mV



Sample

1407K sample number 3 "Kokbulak"

Measuring date: 07.07.2022, 11:47:32

Chemist: Aynakeeva Gulnaz

Method

OCP determination

Measurement

Calculation method: absolute graduation (classical), area used for calculation

Temperature conditions Measurements=200.0(30.0) Volatility-1=250.0 TID-1=330.0 Volatility-2=250.0 E2D-2=300.0

Main Parameter 1. Nitrogen P=0.500; 2. Nitrogen Q=5.000; 3. Nitrogen P=1.200; 4. Nitrogen Q=20.000; 5. Nitrogen Q=25.000; 6. Nitrogen Q=30.000; 7. Hydrogen Q=0.000; 8. Air Q=0.000;

Components

Number	Time min	Hight mV	Area mv/min	Concentrati on	Unit	Component	Group
1	8.910	0.106	0.008	1.812e-007	mg/kg	Aldrin	Aldrin
2	4.156	0.111	0.006	9.162e-008	mg/kg	Alpha-HCG	HCG
3	4.750	0.123	0.006	5.536e-007	mg/kg	Betta-HCG	HCG
4	4.938	0.070	4.686e-00.3	2.456e-007	mg/kg	Gamma-HCG	HCG
5	16.045	0.134	0.033	1.962e-007	mg/kg	DDE	DDT
6	20.301	0.132	0.035	8.828e-007	mg/kg	DDD	DDT
7	25.653	0.185	0.030	1.113e-006	mg/kg	DDI	DDI
8	4.393	0.096	0.005	5.455e-008	mg/kg	Hexachlorobenzene	Hexachlorobenzene
9	7.185	0.099	0.006	1.207e-007	mg/kg	Heptachlor	Heptachlor

Groups

Number	Hight mV	Area mv/min	Concentration	Group
1	0.106	0.008	1.812e-007	Aldrin
2	0.303	0.017	8.908e-007	HCG
3	0.452	0.098	2.192e-006	DDT
4	0.096	0.005	5.455e-008	Hexachlorobenzene
5	0.099	0.006	1.207e-007	Heptachlor

Supplementary Material S2

Chromatograms of PCB analyzes

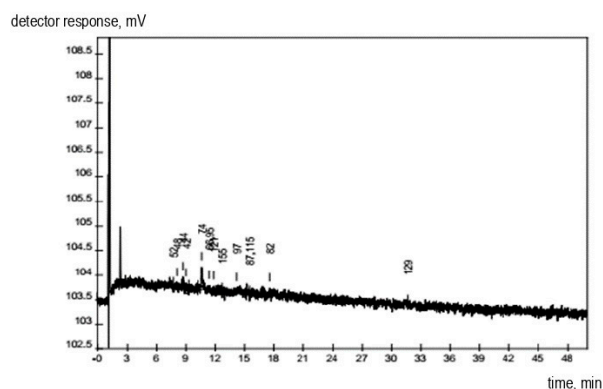
Supplementary Material2 Example of a chromatogram report

From 12.10.2021, 09:54:55

PCB measurement_011021_141859.stg

Duration 50 minutes

Illustrated chromatogram current



Sample

2963K sample number 1

Measuring date: 01.10.2021, 14:18:59

Chemist:

Method

PCB determination

Measurement

Number:0 grain size: 0 µm

Inner diameter: 0 mm; length: 0 m

Temperature conditions Measurements=200.0(50.0) Volatility-1=250.0 TID-1=330.0

Volatility-2=250.0 ESD-2=300.0

Main Parameter 1. Nitrogen P=0.500; 2. Nitrogen Q=5.000; 3. Nitrogen P=1.200; 4. Nitrogen Q=20.000; 5. Nitrogen Q=25.000; 6. Nitrogen Q=30.000; 7. Nitrogen Q=0.000; 8. Nitrogen Q=0.000;

Components

Number	Time min	Hight mV	Area mv/min	Concentration	Unit	Component	Group
1	7.801	0.122	0.008	7.289e-006	mg/mL	52	PCB
2	8.181	0.122	0.007	2.977e-006	mg/mL	48	PCB
3	8.779	0.221	0.026	1.249e-005	mg/mL	44	PCB
4	9.065	0.206	0.031	4.597e-005	mg/mL	42	PCB
5	10.720	0.453	0.069	2.207e-005	mg/mL	74	PCB
6	11.468	0.081	1.853e-004	4.837e-006	mg/mL	66,95	PCB
7	11.899	0.143	0.005	6.660e-006	mg/mL	121	PCB
8	12.751	0.186	0.021	7.170e-006	mg/mL	155	PCB
9	14.287	0.135	0.018	1.046e-005	mg/mL	97	PCB
10	15.575	0.153	2.705e-004	6.767e-006	mg/mL	87,115	PCB
11	17.662	0.170	0.019	1.475e-005	mg/mL	82	PCB
12	31.772	0.105	3.878e-003	8.422e-006	mg/mL	129	PCB

Groups

Number	Hight mV	Area mv/min	Concentration	Group
1	2.096	0.209	1.085e-004	PCB