

NILU : OR 44/2004
REFERANSE : O-90006/O-93062
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**Måledata fra langtransportert
forurenset luft og nedbør**
**Datarapport fra programmene
CAMP '03 og AMAP '03**
(sporstoffer og organiske komponenter)

Stein Manø og Torunn Berg

**Vedlegg til Statlig program for
forurensningsovervåking. Rapport 903/2004.**



Måledata fra langtransportert forurenset luft og nedbør Datarapport fra programmene CAMP '03 og AMAP '03 (sporstoffer og organiske komponenter)

Måledataene i denne rapporten er innsamlet i forbindelse med Statlig program for forurensningsovervåking ved Statens forurensningstilsyn. Målingene er utført på prøver som er innsamlet under programmene Comprehensive Atmospheric Monitoring Programme (CAMP) og Arctic Monitoring and Assessment Programme (AMAP) i 2003. CAMP er en av aktivitetene innen Oslo- og Paris-kommisjonens (OSPAR) studier for transport av landbasert forurensning til Nordsjøen. Rapporten inneholder ukentlige måledata for tungmetaller og de organiske stoffene α - og γ -heksaklorsykloheksan (HCH) samt heksaklorbenzen (HCB) i luft og nedbør samlet på Lista.

Videre inneholder rapporten ukentlige måledata fra luftprøver samlet på Zeppelinfjellet ved Ny-Ålesund som et ledd i AMAP. Resultatene omfatter 10 sporstoffer, to HCH-isomerer, HCB, seks isomerer tilhørende DDT-gruppen, syv klordanisomerer, 33 enkeltkongenerer fra gruppen polyklorerte bifenyler (PCB) og sum av alle PCB med fra tre til ti kloratomer i molekylet, samt 38 forbindelser av typen polyaromatiske hydrokarboner (PAH).

En sammenfatning av resultatene finnes i NILU OR 47/2004 (Statens forurensningstilsyn: Overvåking av langtransportert forurenset luft og nedbør. Atmosfærisk tilførsel, 2003. Statlig program for forurensningsovervåking, rapport nr. 903/2004).

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Vedlegg 1

Organiske forbindelser i luft på Lista (O-2500)

Målerappport nr. O-2500

Oppdragsgiver: Statens forurensningstilsyn (SFT)
Postboks 8100 DEP
0032 OSLO

Prosjekt nr.: O-90006

Prøvetaking:

Sted: Lista fyr
Ansvar: NILU
Kommentar:

Prøveinformasjon:

NILU prøvenr.	Kundens prøvemerkning	Prøvetype	Prøven mottatt	Prøven analysert
03/57	5-6.1.03 1400-1400	Luft	09.1.03	28.4-09.2.04
03/69	9-10.1.03 1945-1945	"	16.1.03	"
03/83	16-17.1.03 0700-0700	"	23.1.03	"
03/110	23-24.1.03 1015-1015	"	30.1.03	5.5.03 – 9.2.04
03/154	30-31.1.03 0955-0955	"	6.2.03	"
03/173	6-7.2.03 0900-1000	"	13.2.03	"
03/217	13-14.2.03 1005-1005	"	20.2.03	"
03/274	20-21.2.03 1000-1000	"	6.3.03	7.5.03 – 9.2.04
03/275	27-28.2.03 1030-1030	"	"	"
03/327	6-7.3.03 1000-1000	"	14.3.03	"
03/331	13-14.3.03 1015-1015	"	19.3.03	"
03/360	20-21.3.03 1000-1030	"	27.3.03	12.5.03-9.2.04
03/411	27-28.3.03 0950-0950	"	7.4.03	"
03/421	3-4.4.03 1015-1015	"	10.4.03	"
03/441	10-11.4.03 0930-0930	"	22.4.03	"
03/445	17-18.4.03 0900-1000	"	25.4.03	14.5.03-9.2.04
03/483	24-25.4.03 1000-1000	"	2.5.03	"
03/491	1-2.5.03 0840-0840	"	8.5.03	"
03/575	8-9.5.03 1330-1330	"	15.5.03	17.9.03-9.2.04
03/699	15-16.5.03 1130-1130	"	22.5.03	"
03/786	22-23.5.03 0930-0930	"	2.6.03	"
03/852	29-30.5.03 1300-1420	"	5.6.03	22.9.03-9.2.04
03/867	5-6.6.03 1115-1115	"	13.6.03	"
03/901	12-13.6.03 0730-0730	"	18.6.03	"
03/959	19-20.6.03 0800-0800	"	30.6.03	24.9.03-9.2.04
03/967	26-27.6.03 1000-1400	"	3.7.03	"
03/1011	3-4.7.03 0830-0830	"	10.7.03	"
03/1049	10-11.7.03 1015-1015	"	24.7.03	26.9-9.2.04
03/1050	18-19.7.03 1030-1030	"	"	"
03/1073	24-25.7.03 0930-0930	"	5.8.03	"
03/1099	7-8.8.03 1030-1030	"	11.8.03	"
03/1237	28-29.8.03 1100-1100	"	05.09.03	05.01.04-29.04.04
03/1303	4-5.9.03 1730-1730	"	11.09.03	"
03/1327	11-12.9.03 1900-1900	"	19.09.03	"
03/1380	18-19.9.03 1930-1930	"	06.10.03	15.01 – 29.04.04
03/1381	25-26.9.03 2030-2030	"	"	"
03/1466	2-3.10.03 1400-1400	"	10.10.03	07.01 – 29.04.04
03/1467	9-10.10.03 1830-1830	"	16.10.03	"

NILU prøvenr.	Kundens prøvemerking	Prøvetype	Prøven mottatt	Prøven analysert
03/1552	16-17.10.03 1730-1730	Luft	23.10.03	07.01 – 29.04.04
03/1575	23-24.10.03 1430-1430	"	30.10.03	"
03/1630	30-31.10.03 1200-1200	"	06.11.03	09.01 – 29.04.04
03/1708	6-7.11.03 1200-1200	"	13.11.03	"
03/1733	13-14.11.03 1215-1205	"	20.11.03	"
03/1807	20-21.11.03 1200-1200	"	27.11.03	"
03/1894	27-28.11.03 1700-1700	"	05.12.03	13.01 – 29.04.04
03/1926	4-5.12.03 1215-1215	"	12.12.03	"
03/1969	11-12.12.03 1600-1600	"	23.12.03	"
03/1970	18-19.12.03 1230-1230	"	02.01.04	"
04/20	25-26.12.03 1600-1600	"	06.01.04	15.01 – 29.04.04

Analyser:

Utført av: Norsk institutt for luftforskning
Postboks 100
N-2027 KJELLER

Målemetode: NILU-O-2 ("Bestemmelse av tungflyktige persistente organiske forbindelser – pesticider og PCB'er")

Kommentarer:

Godkjenning: Kjeller, 29. april 2004

Ole-Anders Braathen

Ole-Anders Braathen
Avd.direktør, Kjemisk analyse

Vedlegg: 49 HCH/HCB-analyser: 49 sider
Målerapporten og vedleggene omfatter totalt 51 sider

Måleresultatene gjelder bare de prøvene som er analysert. Denne rapporten skal ikke gjengis i utdrag, uten skriftlig godkjenning fra laboratoriet.

HCH/HCB-Analyseresultater

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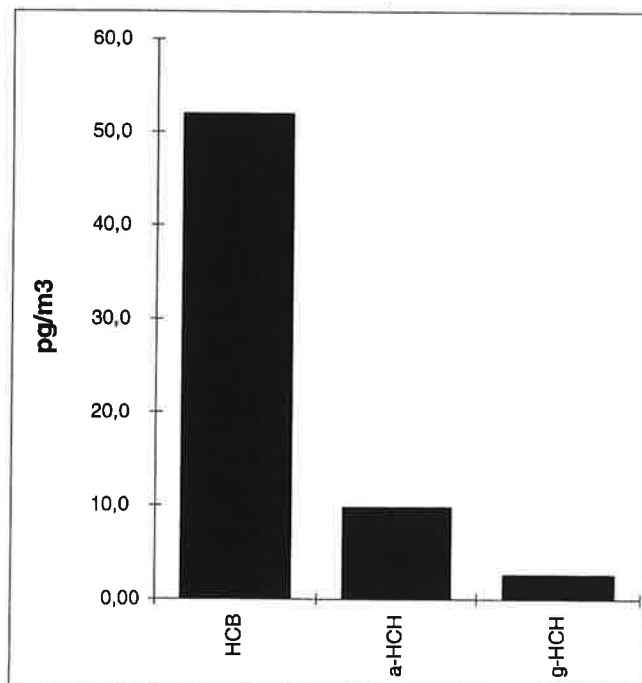


Vedlegg til målerapport nr: O-2500
NILU-Prøvenummer: 03/57
Kunde: Camp 03
Kundenes prøvermerking: 5-6.1.03 1400-1400
: 160-158
Prøvetype: Luft
Prøvemengde: 575 m³
Måleenhet: pg/m³
Datafiler: PA_6903.D

Kjeller, 05.02.04

Komponent	Konsentrasjon	Gjenvinning
	Struktur	pg/m ³
HC	51,9	37
α-HCH	9,72	60
γ-HCH	2,51 b	62

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
(i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
Dette skyldes mulig interferanse og/eller instrumentstøy.
- : Ikke analysert
(b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater

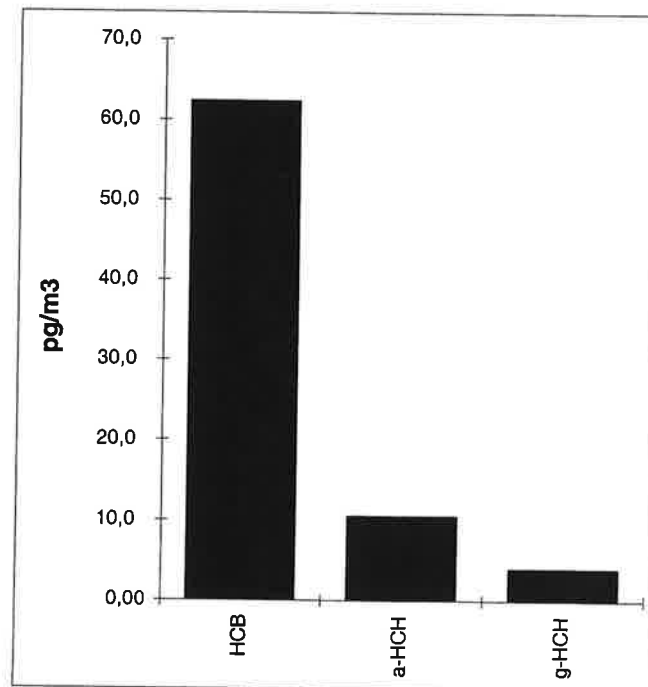


Vedlegg til målerapport nr: O-2500
 NILU-Prøvenummer: 03/69
 Kunde: Camp 03
 Kundernes prøvermerking: 9-10.1.03 1945-1945
 : 160-160
 Prøvetype: Luft
 Prøvemengde: 578 m³
 Måleenhet: pg/m³
 Datafiler: PA_6904.D

Kjeller, 05.02.04

Komponent	Konsentrasjon	Gjenvinning
Struktur	pg/m ³	%
HCB	62,3	38
α-HCH	10,5	70
γ-HCH	3,95 b	79

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
 (i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
 Dette skyldes mulig interferanse og/eller instrumentstøy.
 - : Ikke analysert
 (b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater

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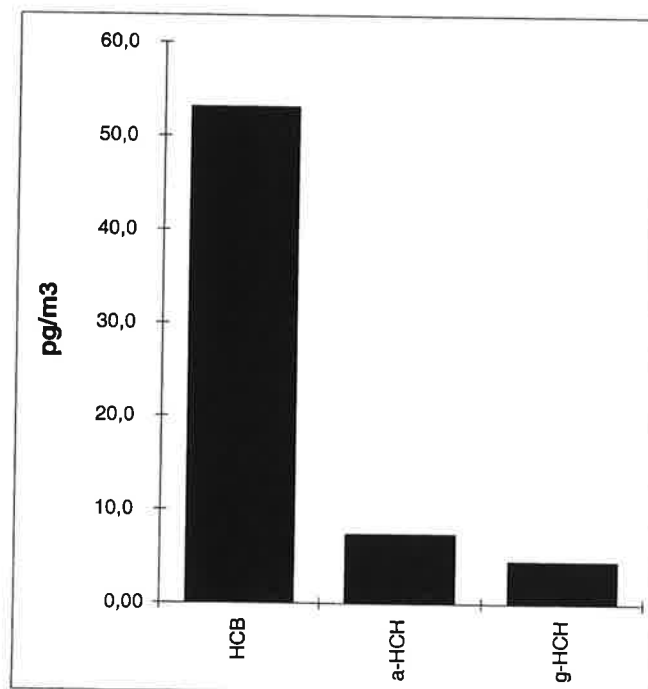


Vedlegg til målerapport nr: O-2500
NILU-Prøvenummer: 03/83
Kunde: Camp 03
Kundenes prøvemerking: 16-17.1.03 0700-0700
: 160-145
Prøvetype: Luft
Prøvemengde: 552 m³
Måleenhet: pg/m³
Datafiler: PA_6905.D

Kjeller, 05.02.04

Komponent	Konsentrasjon	Gjenvinning
Struktur	pg/m ³	%
HCB	53,0	35
α-HCH	7,33	64
γ-HCH	4,48 b	71

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
(i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
Dette skyldes mulig interferanse og/eller instrumentstøy.
- : Ikke analysert
(b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater

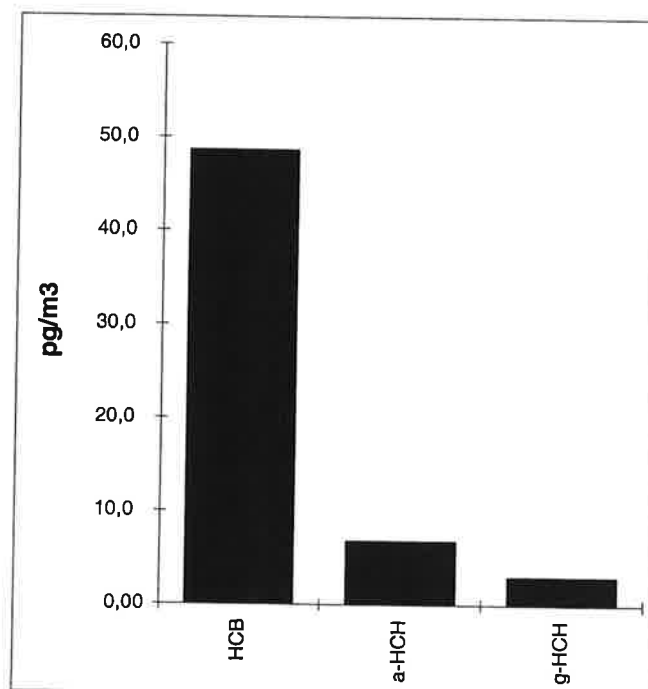


Vedlegg til målerapport nr: O-2500
 NILU-Prøvenummer: 03/110
 Kunde: Camp 03
 Kundernes prøvemerking: 23-24.1.03 1015-1015
 : 160-158
 Prøvetype: Luft
 Prøvemengde: 575 m³
 Måleenhet: pg/m³
 Datafiler: PA_6906.D

Kjeller, 05.02.04

Komponent	Konsentrasjon	Gjenvinning	
	Struktur	pg/m ³	%
	HCB	48,5	41
	α-HCH	6,75	71
	γ-HCH	2,97 b	74

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
 (i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
 Dette skyldes mulig interferanse og/eller instrumentstøy.
 - : Ikke analysert
 (b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater

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Vedlegg til målerapport nr: O-2500
NILU-Prøvenummer: 03/154
Kunde: Camp 03
Kundenes prøvemerking: 30-31.1.03 0955-0955
: 160-155
Prøvetype: Luft
Prøvemengde: 570 m³
Måleenhet: pg/m³
Datafiler: PA_6907.D

Kjeller, 05.02.04

Komponent	Konsentrasjon	Gjenvinning
	Struktur	pg/m ³
HCB	51,8	36
α-HCH	5,58	61
γ-HCH	1,56 b	65

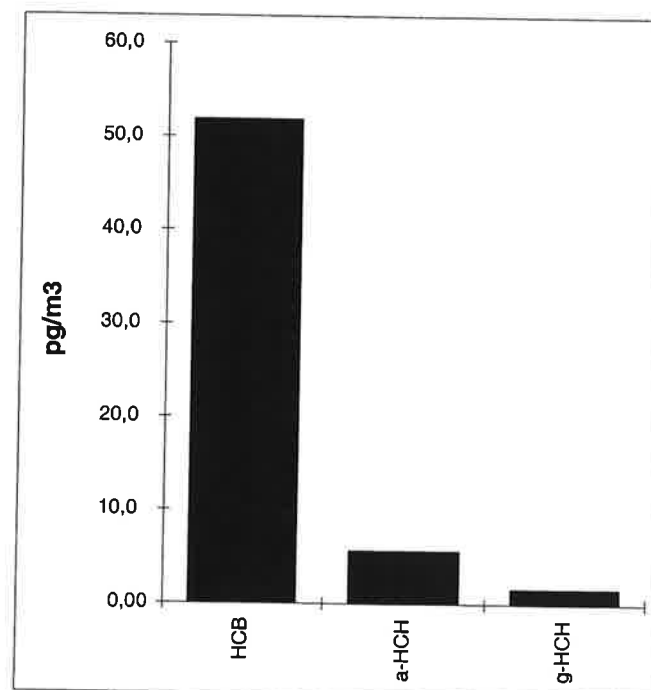
<: Lavere enn påvisningsgrensen ved signal:støy 3:1

(i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.

Dette skyldes mulig interferanse og/eller instrumentstøy.

- : Ikke analysert

(b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater

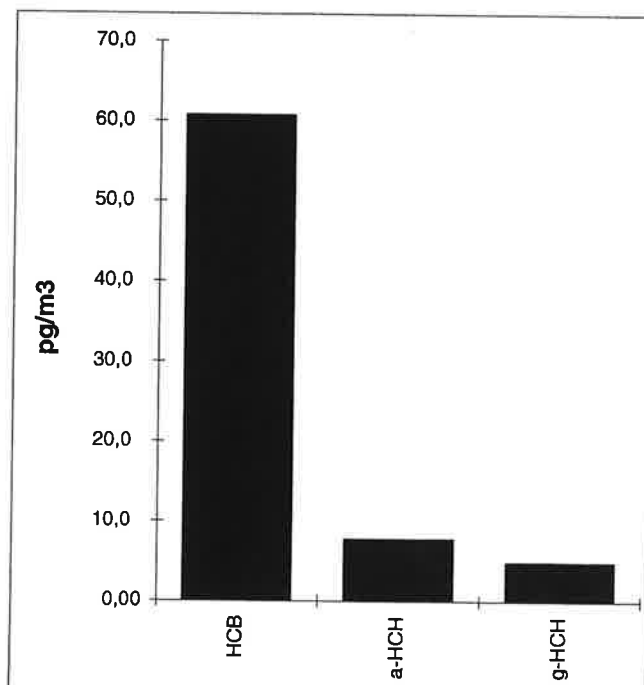


Vedlegg til målerapport nr: O-2500
 NILU-Prøvenummer: 03/173
 Kunde: Camp 03
 Kundenes prøvemerking: 6-7.2.03 0900-1000
 : 160-140
 Prøvetype: Luft
 Prøvemengde: 565 m³
 Måleenhet: pg/m³
 Datafiler: PA_6908.D

Kjeller, 05.02.04

Komponent	Konsentrasjon	Gjenvinning
Struktur	pg/m ³	%
HCB	60,7	37
α-HCH	7,69	70
γ-HCH	4,82 b	80

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
 (i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
 Dette skyldes mulig interferanse og/eller instrumentstøy.
 - : Ikke analysert
 (b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater

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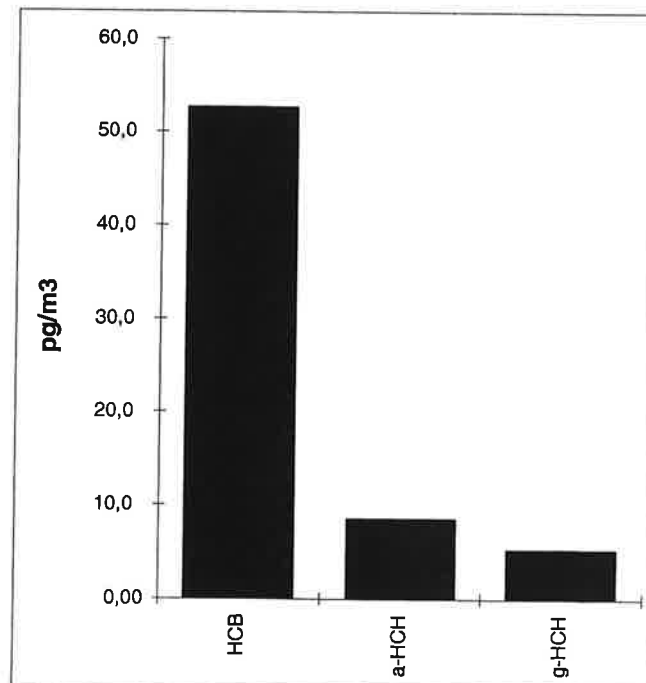


Vedlegg til målerapport nr: O-2500
NILU-Prøvenummer: 03/217
Kunde: Camp 03
Kundenes prøvemerkning: 13-14.2.03 1005-1005
: 160-150
Prøvetype: Luft
Prøvemengde: 560 m³
Måleenhet: pg/m³
Datafiler: PA_6910.D

Kjeller, 05.02.04

Komponent	Konsentrasjon	Gjenvinning
	Struktur	pg/m ³
HCB	52,6	41
α -HCH	8,50	68
γ -HCH	5,22 b	71

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
(i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
Dette skyldes mulig interferanse og/eller instrumentstøy.
- : Ikke analysert
(b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater

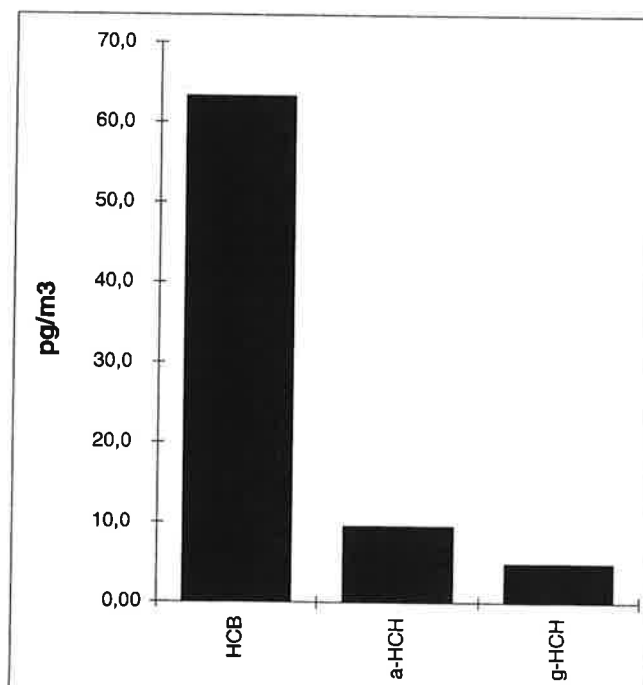


Vedlegg til målerapport nr: O-2500
 NILU-Prøvenummer: 03/274
 Kunde: Camp 03
 Kundens prøvemerking: 20-21.2.03 1000-1000
 : 160-158
 Prøvetype: Luft
 Prøvemengde: 575 m³
 Måleenhet: pg/m³
 Datafiler: PA_6911.D

Kjeller, 05.02.04

Komponent	Konsentrasjon	Gjenvinning
Struktur	pg/m ³	%
HCB	63,2	39
α-HCH	9,44	73
γ-HCH	4,77 b	80

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
 (i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
 Dette skyldes mulig interferanse og/eller instrumentstøy.
 - : Ikke analysert
 (b): Mindre enn 10 ganger blindverdi.



HCH/HCB-Analyseresultater

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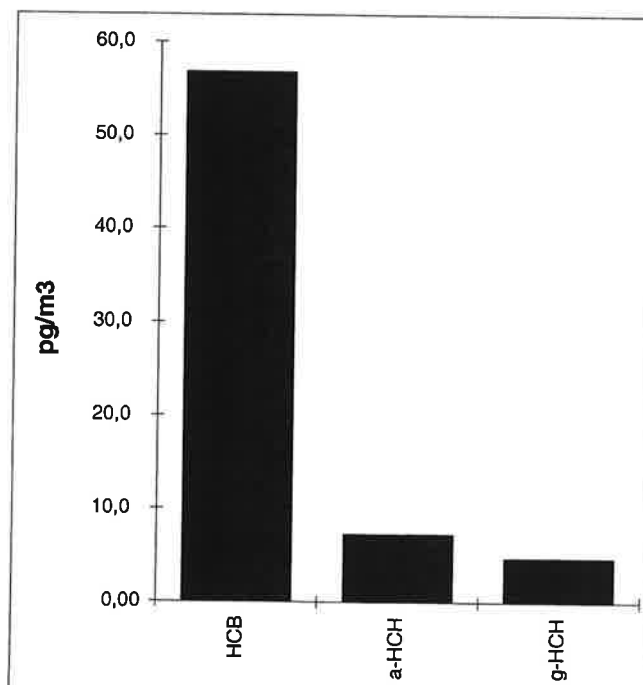


Vedlegg til målerapport nr: O-2500
NILU-Prøvenummer: 03/275
Kunde: Camp 03
Kundenes prøvemerking: 27-28.2.03 1030-1030
: 160-158
Prøvetype: Luft
Prøvemengde: 575 m³
Måleenhet: pg/m³
Datafiler: PA_6912.D

Kjeller, 05.02.04

Komponent	Konsentrasjon	Gjenvinning
	Struktur	pg/m ³
HCB	56,7	35
α-HCH	7,18	68
γ-HCH	4,63 b	76

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
(i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
Dette skyldes mulig interferanse og/eller instrumentstøy.
- : Ikke analysert
(b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater

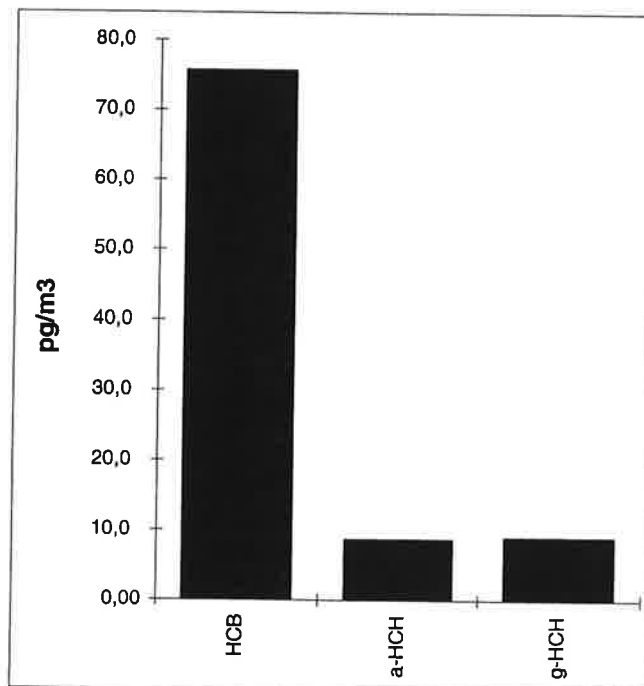


Vedlegg til målerapport nr: O-2500
 NILU-Prøvenummer: 03/327
 Kunde: Camp 03
 Kundernes prøvemerking: 6-7.3.03 1000-1000
 : 160-155
 Prøvetype: Luft
 Prøvemengde: 570 m³
 Måleenhet: pg/m³
 Datafiler: PA_6913.D

Kjeller, 05.02.04

Komponent Struktur	Konsentrasjon	Gjenvinning
	pg/m ³	%
HCB	75,6	35
α-HCH	8,63	78
γ-HCH	8,92	86

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
 (i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
 Dette skyldes mulig interferanse og/eller instrumentstøy.
 - : Ikke analysert
 (b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater

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Vedlegg til målerapport nr: O-2500
NILU-Prøvenummer: 03/331
Kunde: Camp 03
Kundenes prøvemerking: 13-14.3.03 1015-1015
: 160-155
Prøvetype: Luft
Prøvemengde: 570 m³
Måleenhet: pg/m³
Datafiler: PA_6914.D

Kjeller, 05.02.04

Komponent	Konsentrasjon	Gjenvinning	
	Struktur	pg/m ³	%
	HCB	47,5	40
	α -HCH	6,93	78
	γ -HCH	3,45 b	84

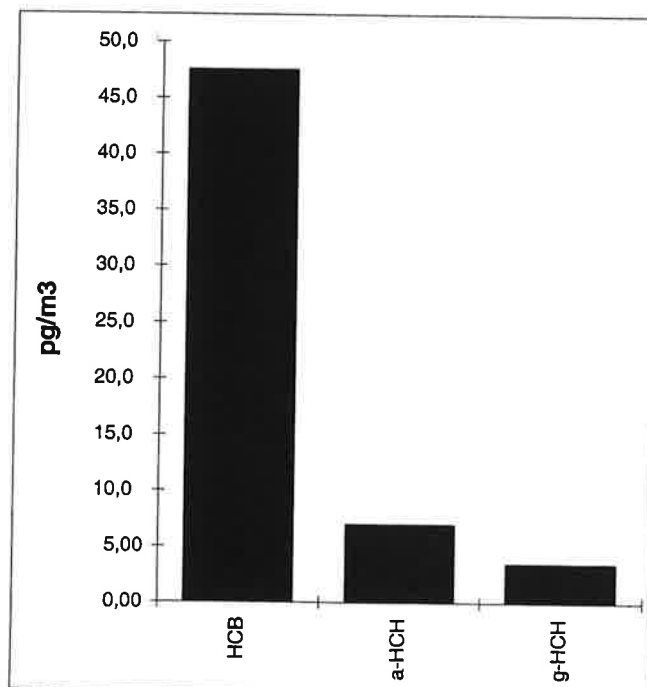
<: Lavere enn påvisningsgrensen ved signal:støy 3:1

(i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.

Dette skyldes mulig interferanse og/eller instrumentstøy.

- : Ikke analysert

(b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater

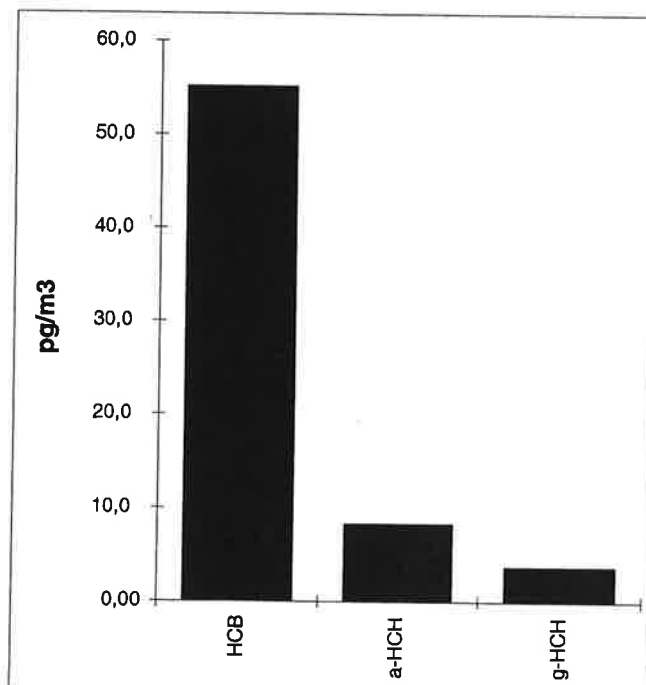


Vedlegg til målerapport nr: O-2500
 NILU-Prøvenummer: 03/360
 Kunde: Camp 03
 Kundernes prøvemerking: 20-21.3.03 1000-1030
 : 160-150
 Prøvetype: Luft
 Prøvemengde: 572 m³
 Måleenhet: pg/m³
 Datafiler: PA_6915.D

Kjeller, 05.02.04

Komponent	Konsentrasjon	Gjenvinning
	Struktur	pg/m ³
HCB	55,1	35
α-HCH	8,24	67
γ-HCH	3,69 b	73

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
 (i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
 Dette skyldes mulig interferanse og/eller instrumentstøy.
 - : Ikke analysert
 (b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater

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Vedlegg til målerapport nr: O-2500
NILU-Prøvenummer: 03/411
Kunde: Camp 03
Kundenes prøvemerking: 27-28.3.03 0950-0950
: 160-155
Prøvetype: Luft
Prøvemengde: 570 m3
Måleenhet: pg/m3
Datafiler: PA_6917.D

Kjeller, 05.02.04

Komponent	Konsentrasjon	Gjenvinning
	Struktur	pg/m3
HCB	64,2	35
α -HCH	6,68	75
γ -HCH	20,3	79

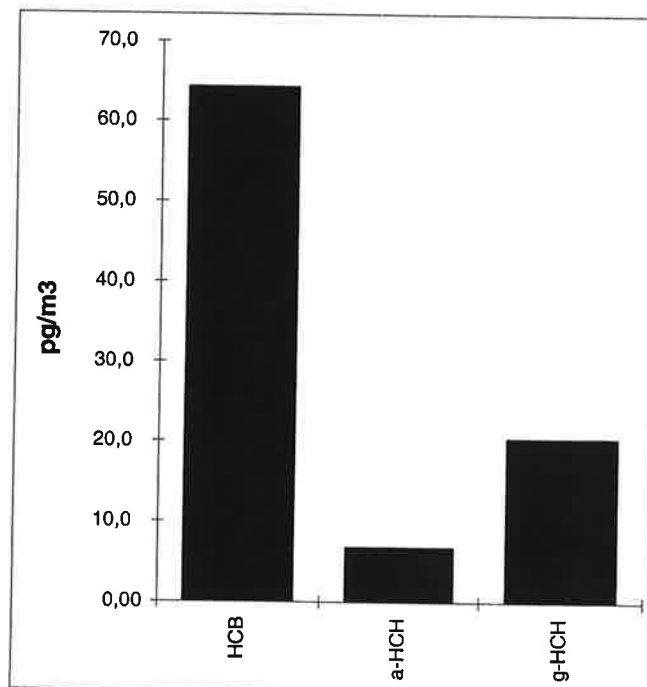
<: Lavere enn påvisningsgrensen ved signal:støy 3:1

(i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.

Dette skyldes mulig interferanse og/eller instrumentstøy.

- : Ikke analysert

(b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater

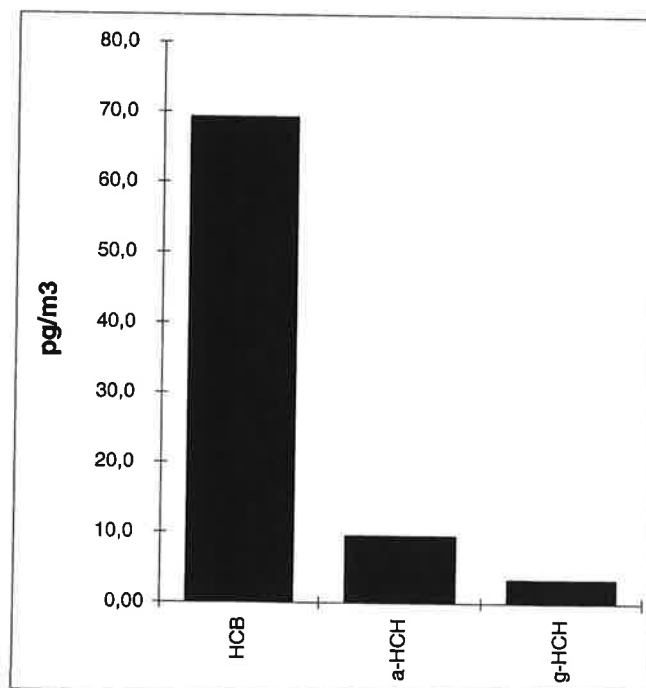


Vedlegg til målerapport nr: O-2500
 NILU-Prøvenummer: 03/421
 Kunde: Camp 03
 Kundernes prøvemerking: 3-4.4.03 1015-1015
 : 160-155
 Prøvetype: Luft
 Prøvemengde: 570 m³
 Måleenhet: pg/m³
 Datafiler: PA_6982.D

Kjeller, 05.02.04

Komponent	Konsentrasjon	Gjenvinning
	Struktur	pg/m ³ %
HCB	69,2	40
α-HCH	9,44	55
γ-HCH	3,26 b	73

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
 (i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
 Dette skyldes mulig interferanse og/eller instrumentstøy.
 - : Ikke analysert
 (b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater

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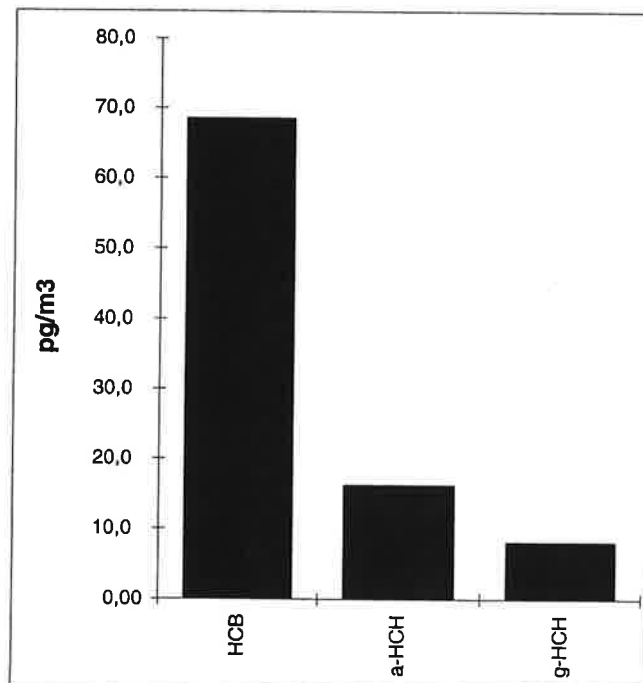


Vedlegg til målerapport nr: O-2500
NILU-Prøvenummer: 03/441
Kunde: Camp 03
Kundenes prøvemerking: 10-11.4.03 0930-0930
: 160-156
Prøvetype: Luft
Prøvemengde: 571 m³
Måleenhet: pg/m³
Datafiler: PA_6983.D

Kjeller, 05.02.04

Komponent	Konsentrasjon	Gjenvinning
	Struktur	pg/m ³
HCB	68,5	45
α-HCH	16,1	62
γ-HCH	7,97 b	83

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
(i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
Dette skyldes mulig interferanse og/eller instrumentstøy.
- : Ikke analysert
(b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater

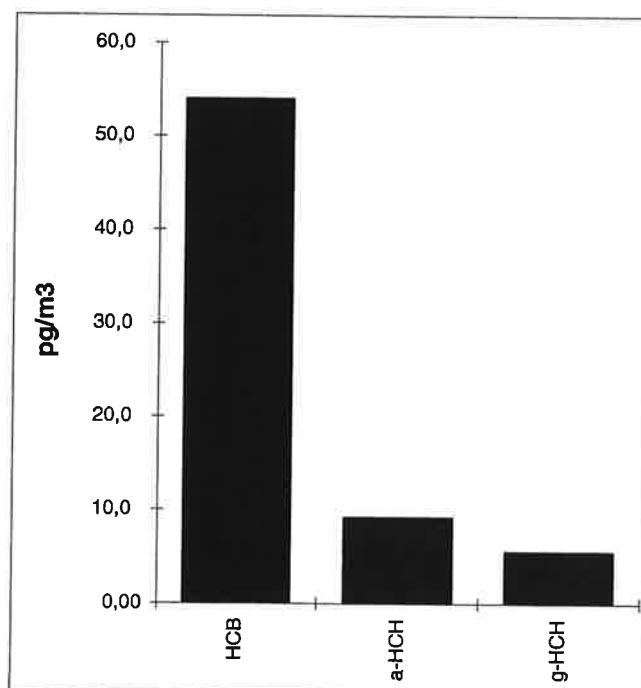


Vedlegg til målerapport nr: O-2500
 NILU-Prøvenummer: 03/445
 Kunde: Camp 03
 Kundernes prøvemerking: 17-18.4.03 0900-1000
 : 160-140
 Prøvetype: Luft
 Prøvemengde: 565 m³
 Måleenhet: pg/m³
 Datafiler: PA_6984.D

Kjeller, 05.02.04

Komponent	Konsentrasjon	Gjenvinning
Struktur	pg/m ³	%
HCB	54,0	47
α-HCH	9,15	57
γ-HCH	5,49 b	78

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
 (i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
 Dette skyldes mulig interferanse og/eller instrumentstøy.
 - : Ikke analysert
 (b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater

25

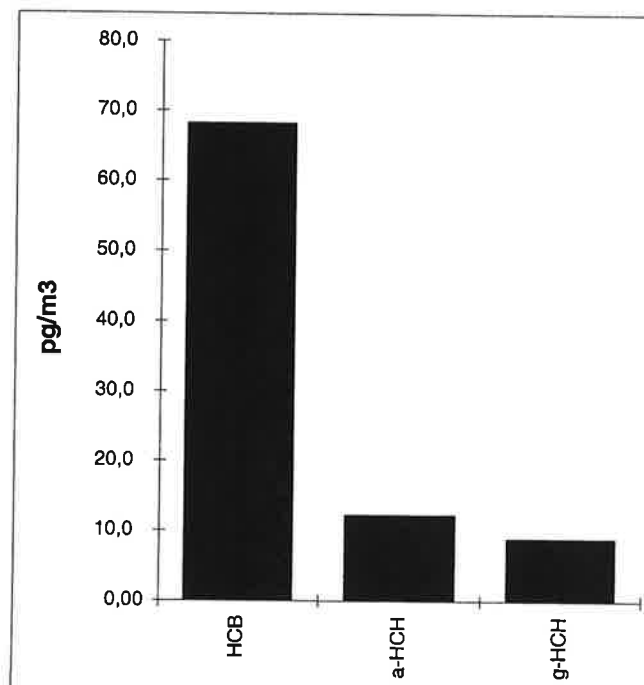


Vedlegg til målerapport nr: O-2500
NILU-Prøvenummer: 03/483
Kunde: Camp 03
Kundenes prøvemerking: 24-25.4.03 1000-1000
: 160-160
Prøvetype: Luft
Prøvemengde: 578 m³
Måleenhet: pg/m³
Datafiler: PA_6985.D

Kjeller, 05.02.04

Komponent	Konsentrasjon	Gjenvinning
	Struktur	pg/m ³
HCB	68,1	44
α-HCH	12,2	62
γ-HCH	8,79	83

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
(i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
Dette skyldes mulig interferanse og/eller instrumentstøy.
- : Ikke analysert
(b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater

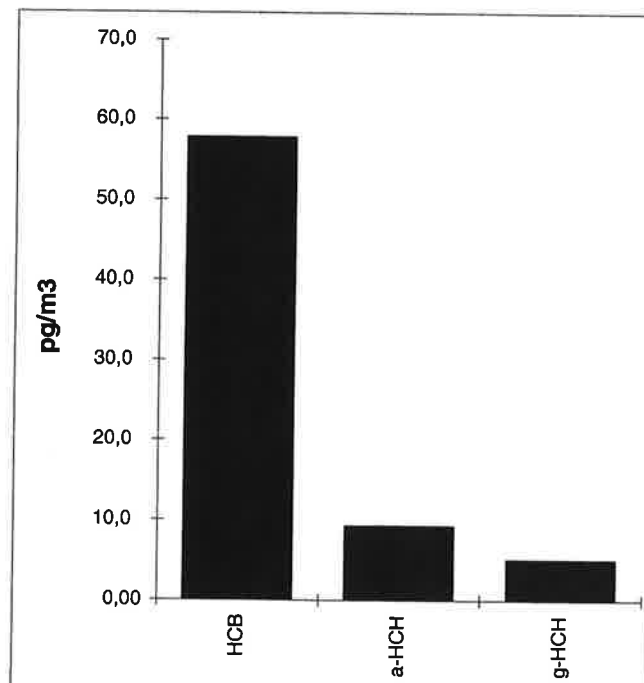


Vedlegg til målerapport nr: O-2500
 NILU-Prøvenummer: 03/491
 Kunde: Camp 03
 Kundernes prøvemerking: 1-2.5.03 0840-0840
 : 160-155
 Prøvetype: Luft
 Prøvemengde: 570 m³
 Måleenhet: pg/m³
 Datafiler: PA_6986.D

Kjeller, 05.02.04

Komponent	Konsentrasjon	Gjenvinning
Struktur	pg/m ³	%
HCB	57,7	48
α-HCH	9,17	64
γ-HCH	5,01 b	84

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
 (i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
 Dette skyldes mulig interferanse og/eller instrumentstøy.
 - : Ikke analysert
 (b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater

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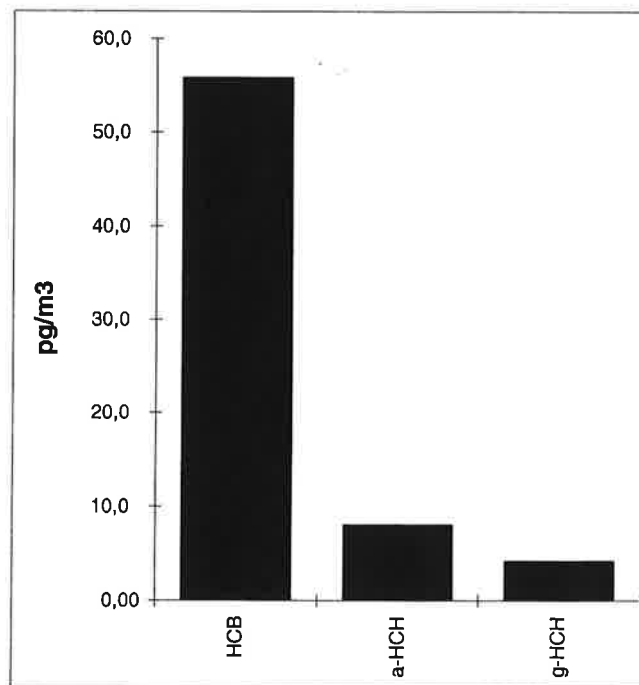


Vedlegg til målerapport nr: O-2500
NILU-Prøvenummer: 03/575
Kunde: Camp 03
Kundenes prøvemerking: 8-9.5.03 1330-1330
: 160-155
Prøvetype: Luft
Prøvemengde: 560 m³
Måleenhet: pg/m³
Datafiler: PA_7259.D

Kjeller, 30.04.2004

Komponent	Konsentrasjon	Gjenvinning
Struktur	pg/m ³	%
HCB	55,8	35
α -HCH	7,98	61
γ -HCH	4,12 b	76

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
(i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
Dette skyldes mulig interferanse og/eller instrumentstøy.
- : Ikke analysert
(b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater

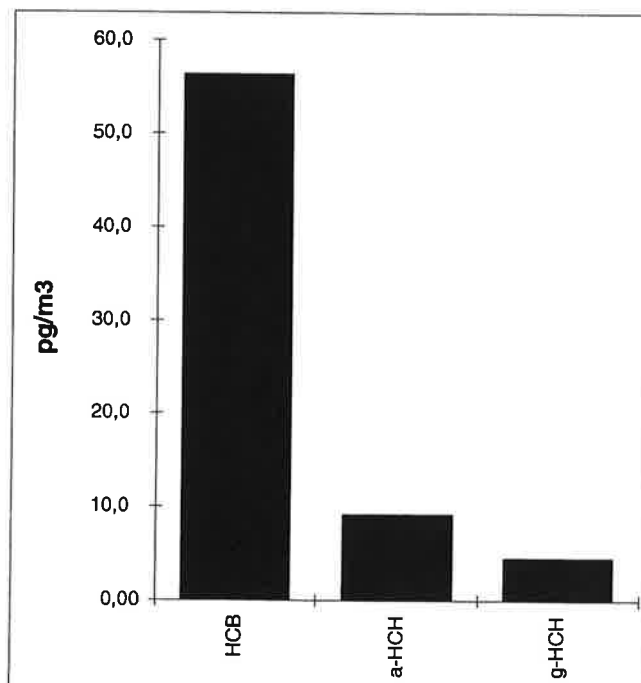


Vedlegg til målerapport nr: O-2500
 NILU-Prøvenummer: 03/699
 Kunde: Camp 03
 Kundernes prøvemerking: 15-16.5.03 1130-1130
 : 160-158
 Prøvetype: Luft
 Prøvemengde: 575 m³
 Måleenhet: pg/m³
 Datafiler: PA_7260.D

Kjeller, 05.02.04

Komponent	Konsentrasjon	Gjenvinning
Struktur	pg/m ³	%
HCB	56,3	38
α-HCH	9,09	72
γ-HCH	4,42 b	90

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
 (i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
 Dette skyldes mulig interferanse og/eller instrumentstøy.
 - : Ikke analysert
 (b): Mindre enn 10 ganger blindverdi.



HCH/HCB-Analyseresultater

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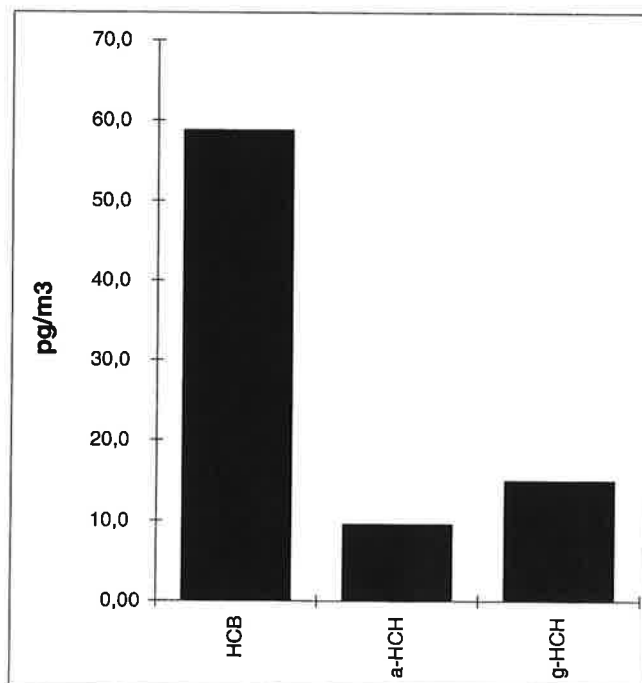


Vedlegg til målerapport nr: O-2500
NILU-Prøvenummer: 03/786
Kunde: Camp 03
Kundenes prøvermerking: 22-23.5.03 0930-0930
: 160-155
Prøvetype: Luft
Prøvemengde: 570 m³
Måleenhet: pg/m³
Datafiler: PA_7261.D

Kjeller, 05.02.04

Komponent	Konsentrasjon	Gjenvinning
Struktur	pg/m ³	%
HCB	58,7	37
α-HCH	9,46	72
γ-HCH	14,9	88

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
(i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
Dette skyldes mulig interferanse og/eller instrumentstøy.
- : Ikke analysert
(b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater

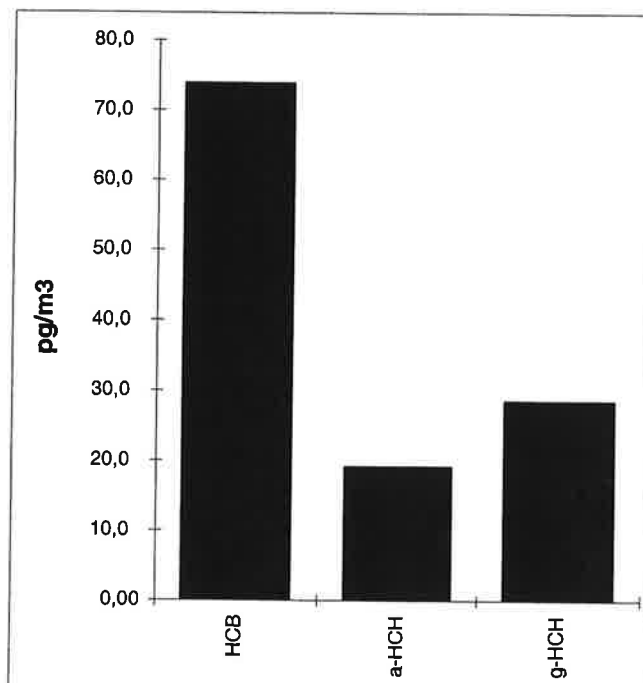


Vedlegg til målerapport nr: O-2500
 NILU-Prøvenummer: 03/852
 Kunde: Camp 03
 Kundernes prøvemerking: 29-30.5.03 1300-1420
 : 160-145
 Prøvetype: Luft
 Prøvemengde: 582 m³
 Måleenhet: pg/m³
 Datafiler: PA_7262.D

Kjeller, 05.02.04

Komponent	Konsentrasjon	Gjenvinning
Struktur	pg/m ³	%
HCB	73,8	30
α-HCH	19,1	65
γ-HCH	28,5	81

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
 (i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
 Dette skyldes mulig interferanse og/eller instrumentstøy.
 - : Ikke analysert
 (b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater

31

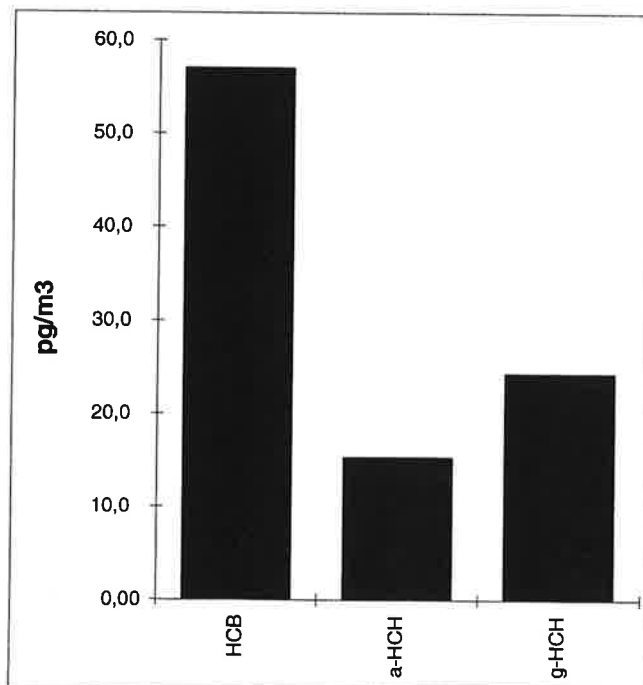


Vedlegg til målerapport nr: O-2500
NILU-Prøvenummer: 03/867
Kunde: Camp 03
Kundenes prøvemerking: 5-6.6.03 1115-1115
: 160-160
Prøvetype: Luft
Prøvemengde: 578 m³
Måleenhet: pg/m³
Datafiler: PA_7264.D

Kjeller, 05.02.04

Komponent	Konsentrasjon	Gjenvinning
	Struktur	pg/m ³
HCB	56,9	35
α-HCH	15,3	69
γ-HCH	24,3	89

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
(i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
Dette skyldes mulig interferanse og/eller instrumentstøy.
- : Ikke analysert
(b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater

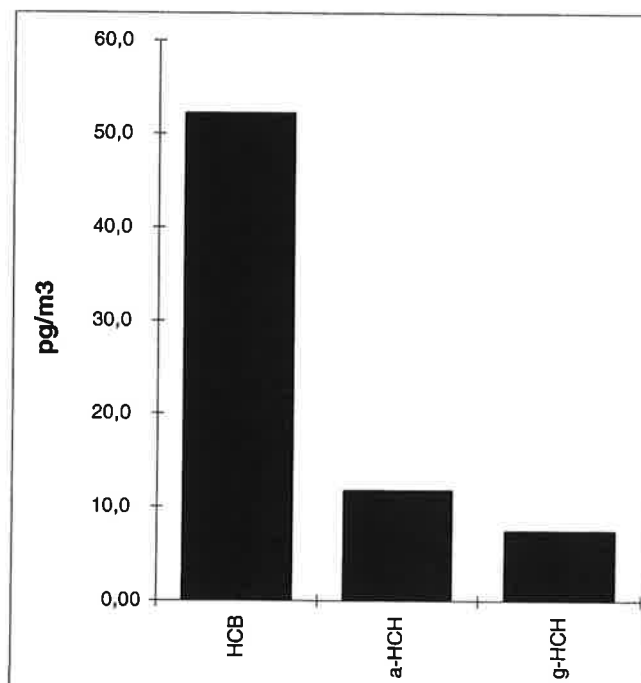


Vedlegg til målerapport nr: O-2500
 NILU-Prøvenummer: 03/901
 Kunde: Camp 03
 Kundernes prøvemerking: 12-13.6.03 0730-0730
 : 160-155
 Prøvetype: Luft
 Prøvemengde: 570 m³
 Måleenhet: pg/m³
 Datafiler: PA_7265.D

Kjeller, 05.02.04

Komponent	Konsentrasjon	Gjenvinning
Struktur	pg/m ³	%
HCB	52,1	34
α-HCH	11,7	70
γ-HCH	7,40 b	90

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
 (i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
 Dette skyldes mulig interferanse og/eller instrumentstøy.
 - : Ikke analysert
 (b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater

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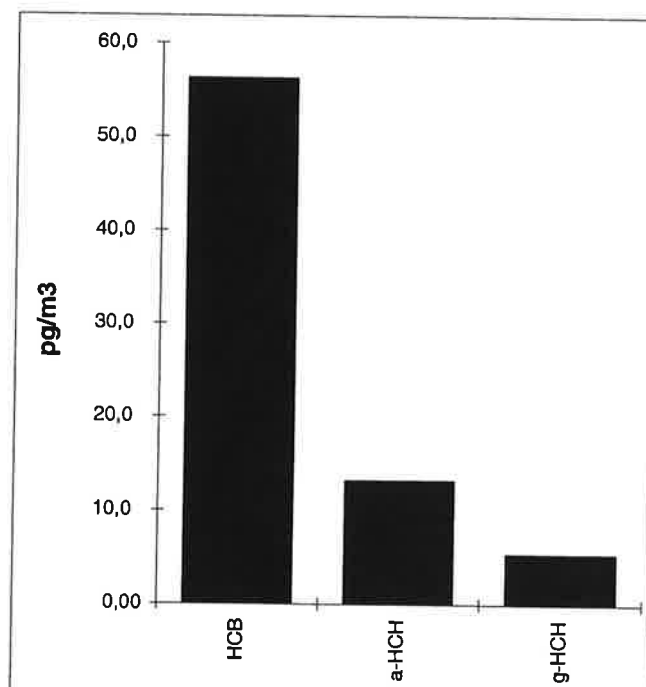


Vedlegg til målerapport nr: O-2500
NILU-Prøvenummer: 03/959
Kunde: Camp 03
Kundenes prøvemerking: 19-20.6.03 0800-0800
: 165-150
Prøvetype: Luft
Prøvemengde: 570 m3
Måleenhet: pg/m3
Datafiler: PA_7266.D

Kjeller, 05.02.04

Komponent	Konsentrasjon	Gjenvinning
	Struktur	pg/m3
HC	56,2	36
α -HCH	13,2	66
γ -HCH	5,32 b	79

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
(i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
Dette skyldes mulig interferanse og/eller instrumentstøy.
- : Ikke analysert
(b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater

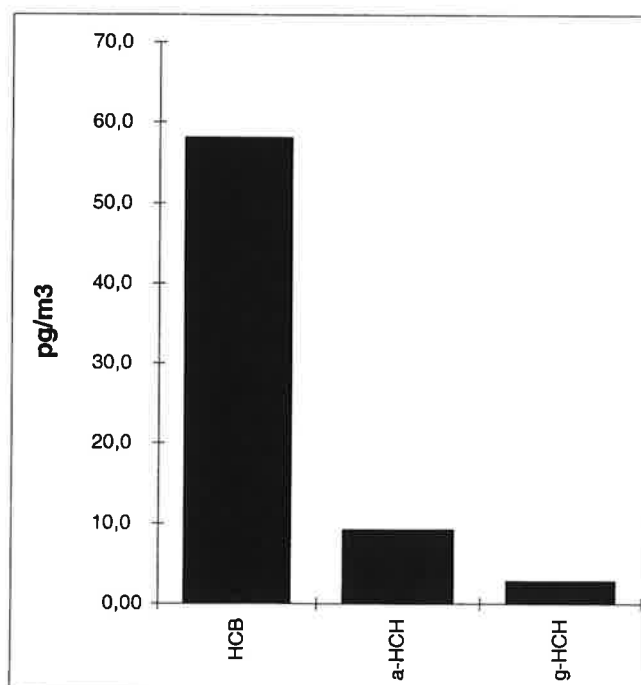


Vedlegg til målerapport nr: O-2500
 NILU-Prøvenummer: 03/1969
 Kunde: Camp 03
 Kundernes prøvemerking: 11-12.12.03 1600-1600
 : 160-158
 Prøvetype: Luft
 Prøvemengde: 575 m³
 Måleenhet: pg/m³
 Datafiler: PA_7668.D

Kjeller, 30.04.2004

Komponent Struktur	Konsentrasjon	Gjenvinning
	pg/m ³	%
HCB	58,0	41
α-HCH	9,15	65
γ-HCH	2,73 b	70

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
 (i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
 Dette skyldes mulig interferanse og/eller instrumentstøy.
 - : Ikke analysert
 (b): Mindre enn 10 ganger blindverdi.



HCH/HCB-Analyseresultater

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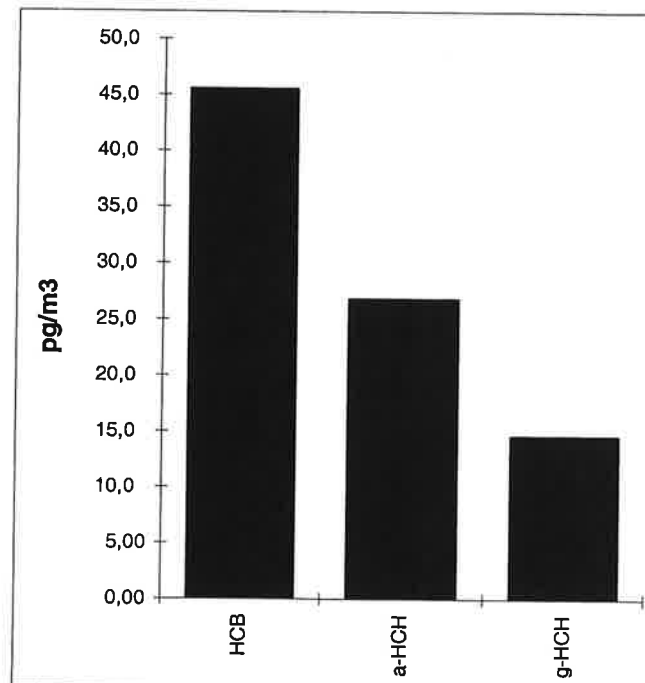


Vedlegg til målerapport nr: O-2500
NILU-Prøvenummer: 03/1011
Kunde: Camp 03
Kundenes prøvemerking: 3-4.7.03 0830-0830
: 160-158
Prøvetype: Luft
Prøvemengde: 575 m³
Måleenhet: pg/m³
Datafiler: PA_7268.D

Kjeller, 05.02.04

Komponent	Konsentrasjon	Gjenvinning
Struktur	pg/m ³	%
HCB	45,5	40
α -HCH	26,8	73
γ -HCH	14,6	97

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
(i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
Dette skyldes mulig interferanse og/eller instrumentstøy.
- : Ikke analysert
(b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater

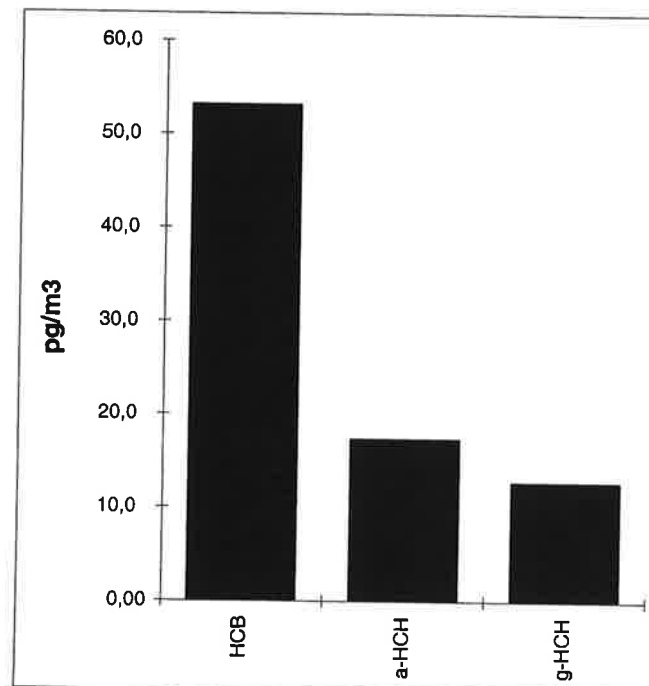


Vedlegg til målerapport nr: O-2500
 NILU-Prøvenummer: 03/1049
 Kunde: Camp 03
 Kundernes prøvemerking: 10-11.7.03 1015-1015
 : 160-152
 Prøvetype: Luft
 Prøvemengde: 564 m³
 Måleenhet: pg/m³
 Datafiler: PA_7271.D

Kjeller, 05.02.04

Komponent Struktur	Konsentrasjon	Gjenvinning
	pg/m ³	%
HCB	53,1	36
α-HCH	17,3	67
γ-HCH	12,7	81

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
 (i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
 Dette skyldes mulig interferanse og/eller instrumentstøy.
 - : Ikke analysert
 (b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater

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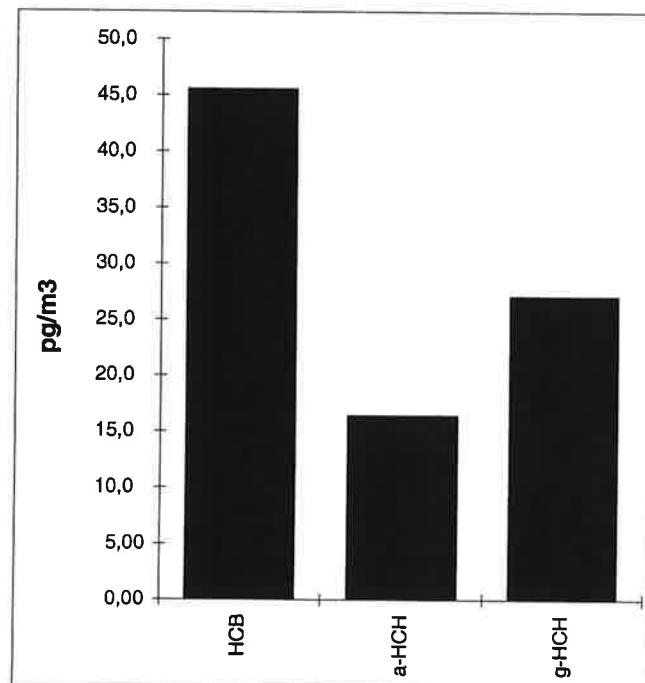


Vedlegg til målerapport nr: O-2500
NILU-Prøvenummer: 03/1050
Kunde: Camp 03
Kundenes prøvemerking: 18-19.7.03 1030-1030
: 160-156
Prøvetype: Luft
Prøvemengde: 571 m³
Måleenhet: pg/m³
Datafiler: PA_7272.D

Kjeller, 05.02.04

Komponent	Konsentrasjon	Gjenvinning
Struktur	pg/m ³	%
HCB	45,5	33
α-HCH	16,3	74
γ-HCH	27,0	92

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
(i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
Dette skyldes mulig interferanse og/eller instrumentstøy.
- : Ikke analysert
(b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater

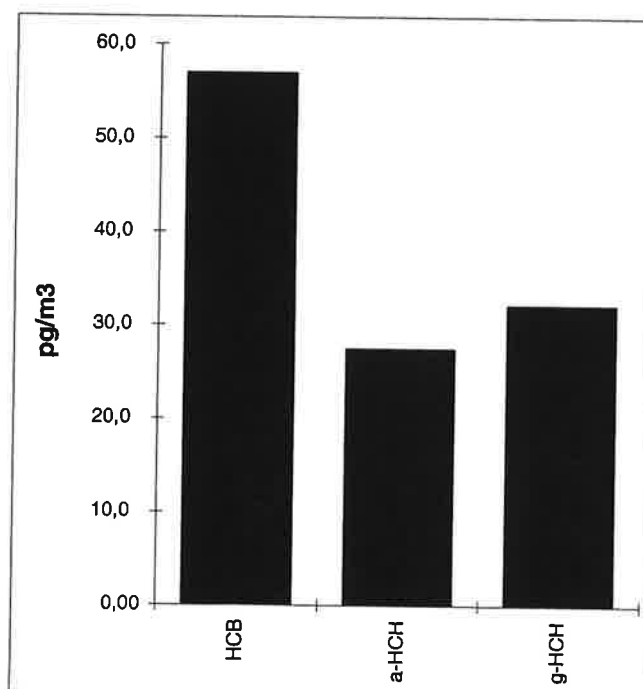


Vedlegg til målerapport nr: O-2500
 NILU-Prøvenummer: 03/1073
 Kunde: Camp 03
 Kundens prøvermerking: 24-25.7.03 0930-0930
 : 160-158
 Prøvetype: Luft
 Prøvemengde: 575 m³
 Måleenhet: pg/m³
 Datafiler: PA_7273.D

Kjeller, 05.02.04

Komponent Struktur	Konsentrasjon	Gjenvinning
	pg/m ³	%
HCB	56,9	31
α-HCH	27,4	72
γ-HCH	32,1	94

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
 (i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
 Dette skyldes mulig interferanse og/eller instrumentstøy.
 - : Ikke analysert
 (b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater

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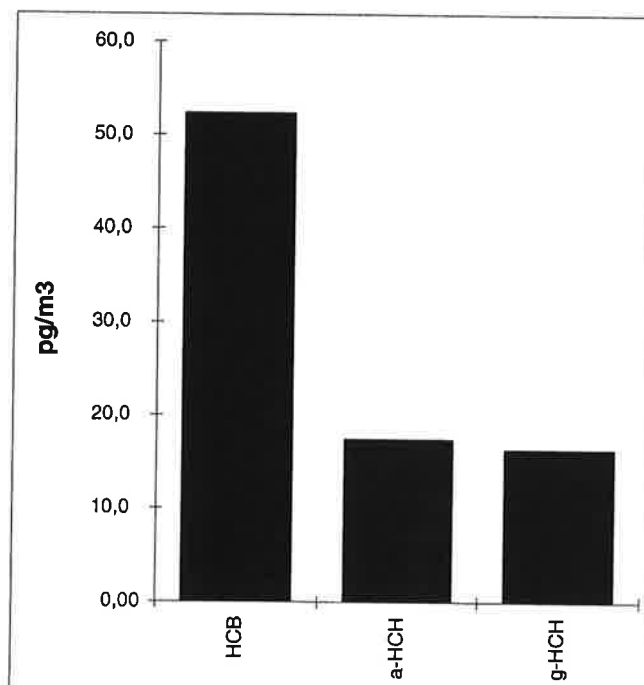


Vedlegg til målerapport nr: O-2500
NILU-Prøvenummer: 03/1099
Kunde: Camp 03
Kundenes prøvemerking: 7-8.8.03 1030-1030
: 160-155
Prøvetype: Luft
Prøvemengde: 570 m³
Måleenhet: pg/m³
Datafiler: PA_7274.D

Kjeller, 05.02.04

Komponent	Konsentrasjon	Gjenvinning
Struktur	pg/m ³	%
HCB	52,3	38
α-HCH	17,4	79
γ-HCH	16,3	102

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
(i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
Dette skyldes mulig interferanse og/eller instrumentstøy.
- : Ikke analysert
(b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater

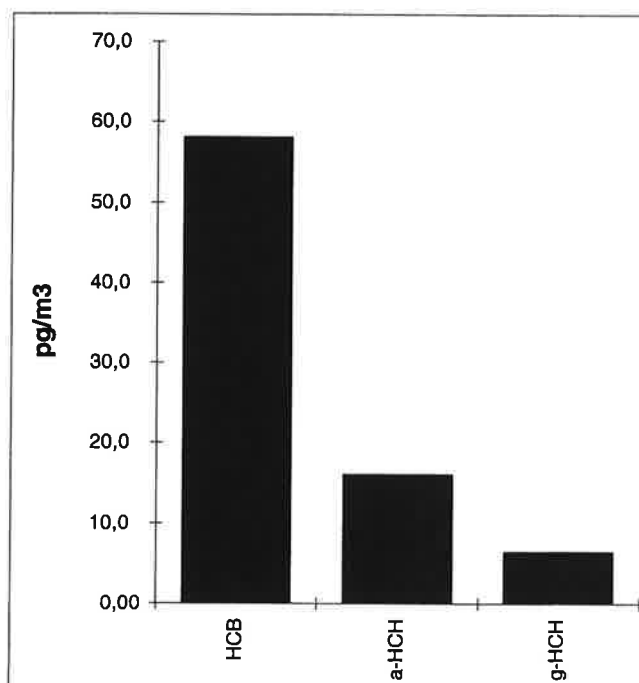


Vedlegg til målerapport nr: O-2500
 NILU-Prøvenummer: 03/1237
 Kunde: Camp 03
 Kundens prøvemerking: 28-29.8.03 1100-1100
 : 160-160
 Prøvetype: Luft
 Prøvemengde: 578 m3
 Måleenhet: pg/m3
 Datafiler: PA_7744.D

Kjeller, 25.03.04

Komponent	Konsentrasjon	Gjenvinning
Struktur	pg/m3	%
HCB	58,0	32
α -HCH	16,0	55
γ -HCH	6,38 b	66

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
 (i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
 Dette skyldes mulig interferanse og/eller instrumentstøy.
 - : Ikke analysert
 (b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater

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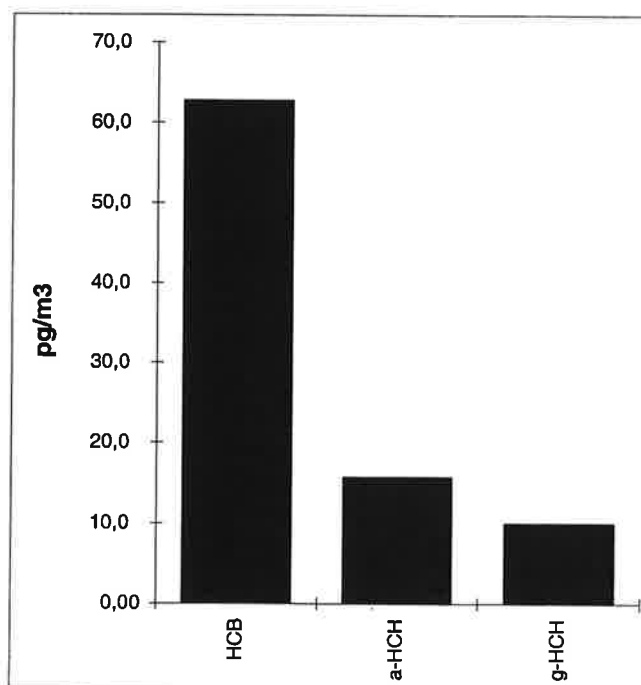


Vedlegg til målerapport nr: O-2500
NILU-Prøvenummer: 03/1303
Kunde: Camp 03
Kundenes prøvemerking: 4-5.9.03 1730-1730
: 160-158
Prøvetype: Luft
Prøvemengde: 575 m3
Måleenhet: pg/m3
Datafiler: PA_7745.D

Kjeller, 25.03.04

Komponent	Konsentrasjon	Gjenvinning
Struktur	pg/m3	%
HCB	62,7	30
α -HCH	15,7	63
γ -HCH	9,91	80

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
(i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
Dette skyldes mulig interferanse og/eller instrumentstøy.
- : Ikke analysert
(b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater

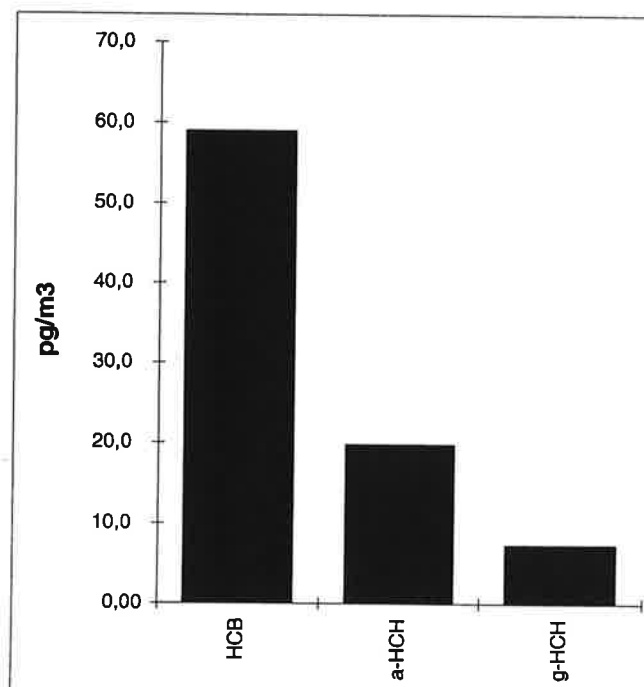


Vedlegg til målerapport nr: O-2500
 NILU-Prøvenummer: 03/1327
 Kunde: Camp 03
 Kundens prøvemerking: 11-12.9.03 1900-1900
 : 160-154
 Prøvetype: Luft
 Prøvemengde: 568 m³
 Måleenhet: pg/m³
 Datafiler: PA_7746.D

Kjeller, 25.03.04

Komponent	Konsentrasjon	Gjenvinning
Struktur	pg/m ³	%
HCB	58,9	32
α-HCH	19,8	74
γ-HCH	7,25 b	94

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
 (i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
 Dette skyldes mulig interferanse og/eller instrumentstøy.
 - : Ikke analysert
 (b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater

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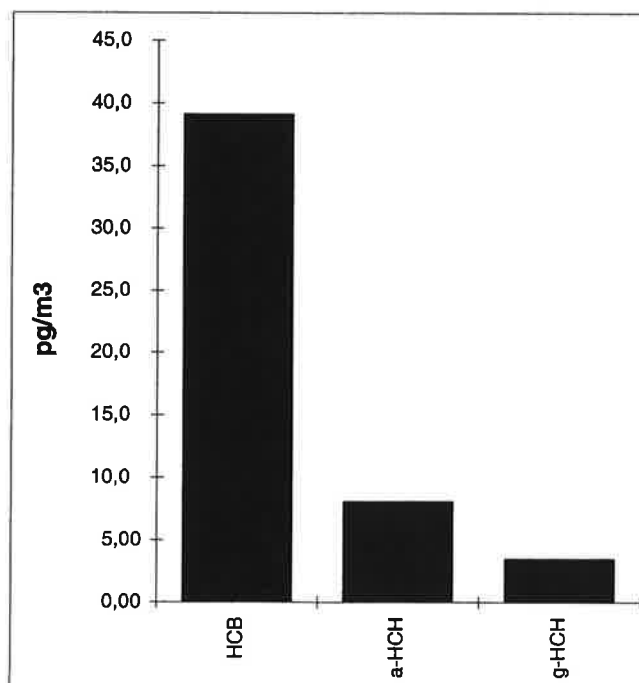


Vedlegg til målerapport nr: O-2500
NILU-Prøvenummer: 03/1380
Kunde: Camp 03
Kundenes prøvemerkning: 18-19.9.03 1930-1930
: 160-154
Prøvetype: Luft
Prøvemengde: 568 m3
Måleenhet: pg/m3
Datafiler: PA_7747.D

Kjeller, 25.03.04

Komponent	Konsentrasjon	Gjenvinning
Struktur	pg/m3	%
HCB	39,1	35
α -HCH	8,03	69
γ -HCH	3,42 b	88

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
(i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
Dette skyldes mulig interferanse og/eller instrumentstøy.
- : Ikke analysert
(b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater

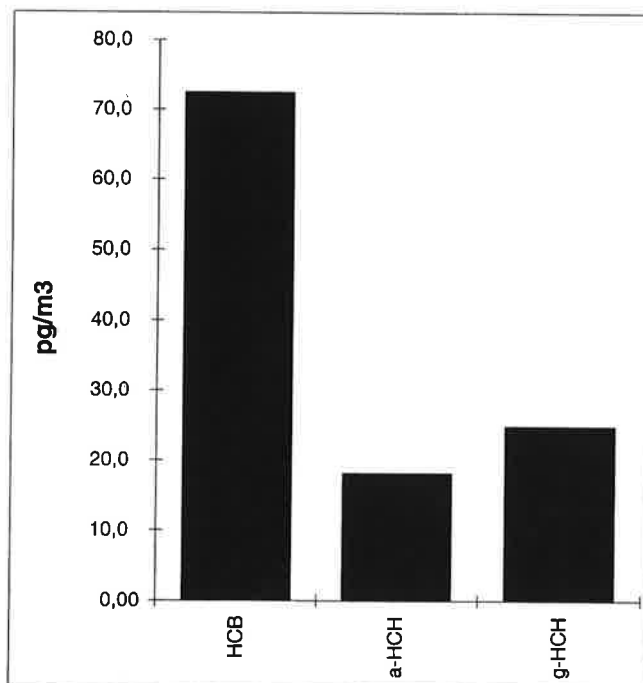


Vedlegg til målerapport nr: O-2500
 NILU-Prøvenummer: 03/1381
 Kunde: Camp 03
 Kundernes prøvemerking: 25-26.9.03 2030-2030
 : 160-150
 Prøvetype: Luft
 Prøvemengde: 560 m³
 Måleenhet: pg/m³
 Datafiler: PA_7748.D

Kjeller, 29.04.2004

Komponent	Konsentrasjon	Gjenvinning
Struktur	pg/m ³	%
HCB	72,4	36
α-HCH	18,0	81
γ-HCH	24,8	104

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
 (i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
 Dette skyldes mulig interferanse og/eller instrumentstøy.
 - : Ikke analysert
 (b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater

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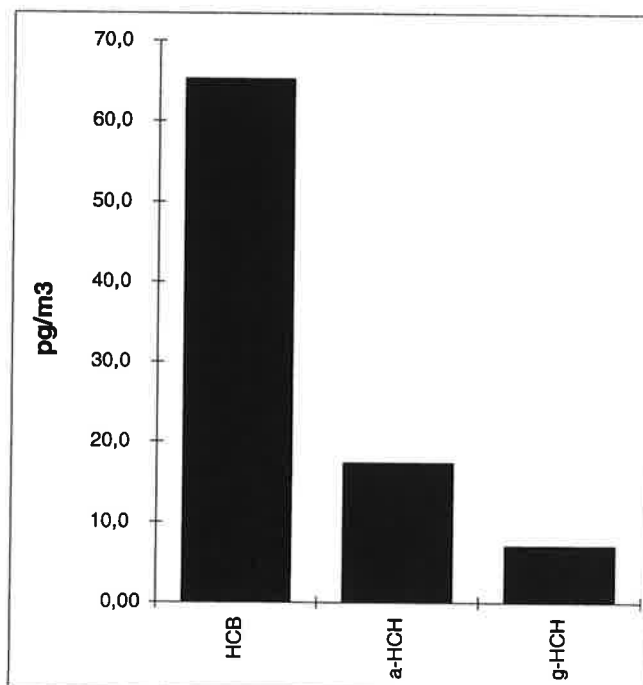


Vedlegg til målerapport nr: O-2500
NILU-Prøvenummer: 03/1466
Kunde: Camp 03
Kundenes prøvemerking: 2-3.10.03 1400-1400
: 1400-1400
Prøvetype: Luft
Prøvemengde: 568 m³
Måleenhet: pg/m³
Datafiler: PA_7751.D

Kjeller, 25.03.04

Komponent	Konsentrasjon	Gjenvinning
Struktur	pg/m ³	%
HCB	65,2	33
α-HCH	17,3	68
γ-HCH	6,98 b	80

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
(i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
Dette skyldes mulig interferanse og/eller instrumentstøy.
- : Ikke analysert
(b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCb-Analyseresultater

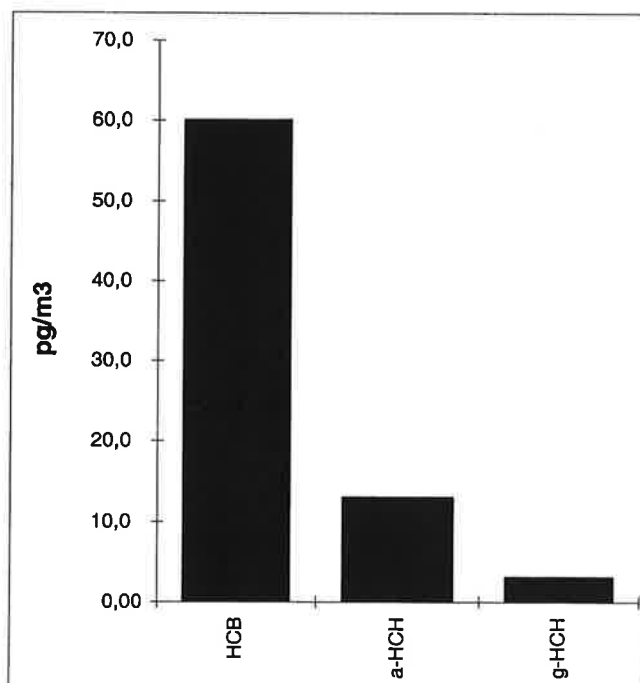


Vedlegg til målerapport nr: O-2500
 NILU-Prøvenummer: 03/1467
 Kunde: Camp 03
 Kundernes prøvermerking: 9-10.10.03 1830-1830
 : 160-160
 Prøvetype: Luft
 Prøvemengde: 578 m³
 Måleenhet: pg/m³
 Datafiler: PA_7752.D

Kjeller, 25.03.04

Komponent	Konsentrasjon	Gjenvinning
Struktur	pg/m ³	%
HCb	60,0	31
α-HCH	13,0	60
γ-HCH	3,06 b	71

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
 (i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
 Dette skyldes mulig interferanse og/eller instrumentstøy.
 - : Ikke analysert
 (b): Mindre enn 10 ganger blindverdi.



HCH/HCB-Analyseresultater

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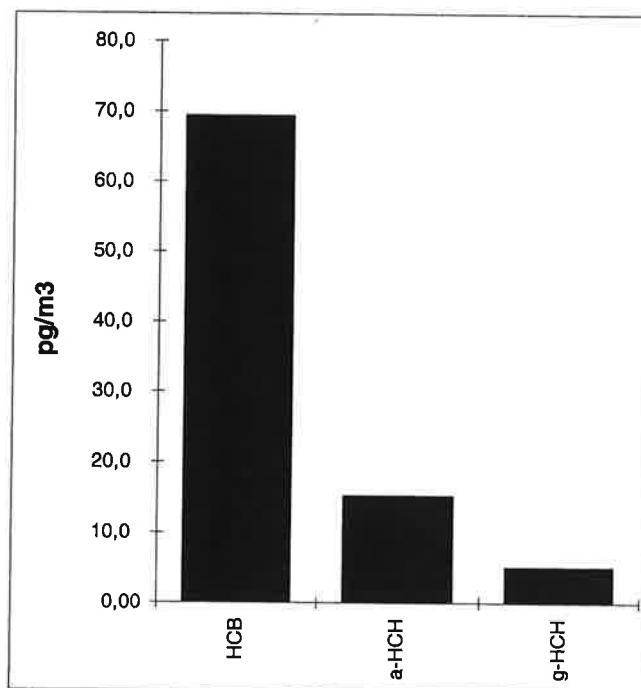


Vedlegg til målerapport nr: O-2500
NILU-Prøvenummer: 03/1552
Kunde: Camp 03
Kundenes prøvemerking: 16-17.10.03 1730-1730
: 160-153
Prøvetype: Luft
Prøvemengde: 566 m³
Måleenhet: pg/m³
Datafiler: PA_7753.D

Kjeller, 29.04.2004

Komponent	Konsentrasjon	Gjenvinning
Struktur	pg/m ³	%
HCB	69,3	33
α -HCH	15,1	67
γ -HCH	4,98 b	84

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
(i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
Dette skyldes mulig interferanse og/eller instrumentstøy.
- : Ikke analysert
(b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater

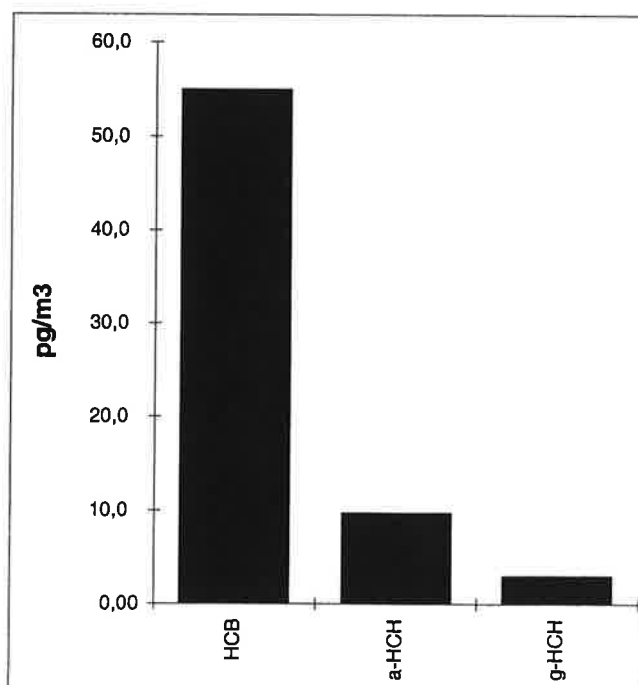


Vedlegg til målerapport nr: O-2500
 NILU-Prøvenummer: 03/1575
 Kunde: Camp 03
 Kundernes prøvemerking: 23-24.10.03 1430-1430
 : 160-150
 Prøvetype: Luft
 Prøvemengde: 560 m3
 Måleenhet: pg/m3
 Datafiler: PA_7754.D

Kjeller, 25.03.04

Komponent	Konsentrasjon	Gjenvinning
Struktur	pg/m3	%
HCB	54,9	38
α -HCH	9,65	80
γ -HCH	2,93 b	94

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
 (i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
 Dette skyldes mulig interferanse og/eller instrumentstøy.
 - : Ikke analysert
 (b): Mindre enn 10 ganger blindverdi.



HCH/HCB-Analyseresultater

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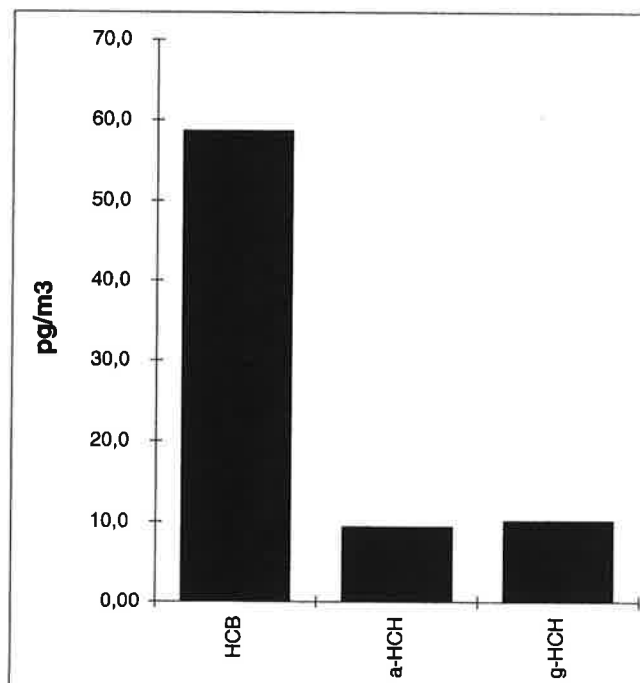


Vedlegg til målerapport nr: O-2500
NILU-Prøvenummer: 03/1630
Kunde: Camp 03
Kundenes prøvemerking: 30-31.10.03 1200-1200
: 160-155
Prøvetype: Luft
Prøvemengde: 570 m3
Måleenhet: pg/m3
Datafiler: PA_7671.D

Kjeller, 25.03.04

Komponent	Konsentrasjon	Gjenvinning
Struktur	pg/m3	%
HCB	58,6	41
α -HCH	9,26	60
γ -HCH	10,0	66

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
(i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
Dette skyldes mulig interferanse og/eller instrumentstøy.
- : Ikke analysert
(b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater

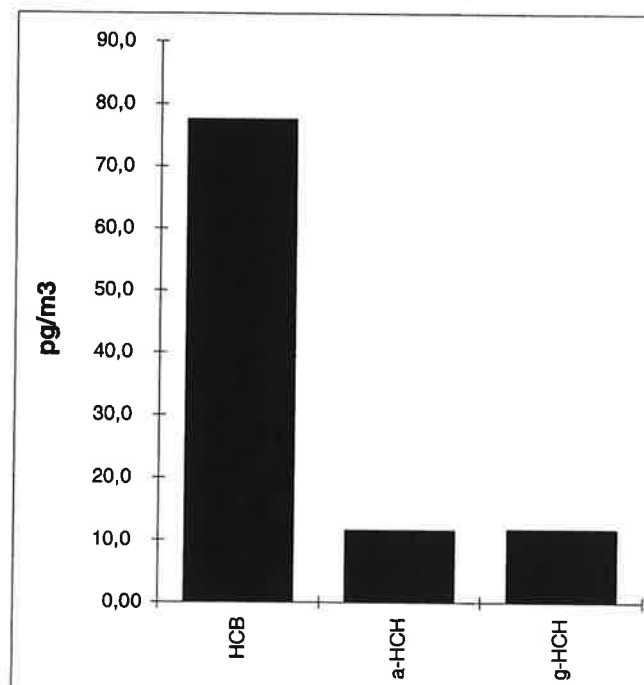


Vedlegg til målerapport nr: O-2500
 NILU-Prøvenummer: 03/1708
 Kunde: Camp 03
 Kundernes prøvermerking: 6-7.11.03 1200-1200
 : 160-160
 Prøvetype: Luft
 Prøvemengde: 578 m3
 Måleenhet: pg/m3
 Datafiler: PA_7672.D

Kjeller, 25.03.04

Komponent	Konsentrasjon	Gjenvinning
Struktur	pg/m3	%
HCB	77,4	36
α -HCH	11,5	78
γ -HCH	11,6	112

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
 (i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
 Dette skyldes mulig interferanse og/eller instrumentstøy.
 - : Ikke analysert
 (b): Mindre enn 10 ganger blindverdi.



HCH/HCB-Analyseresultater

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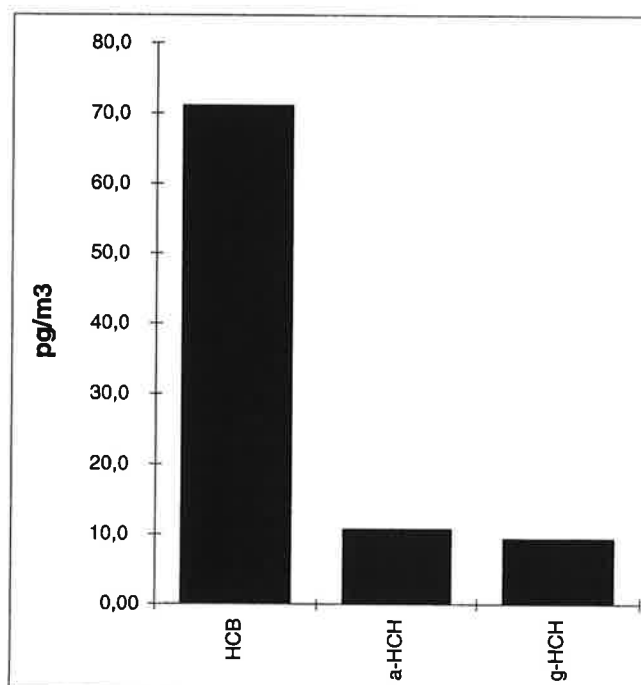


Vedlegg til målerapport nr: O-2500
NILU-Prøvenummer: 03/1733
Kunde: Camp 03
Kundenes prøvemerkning: 13-14.11.03 1215-1205
: 160-157
Prøvetype: Luft
Prøvemengde: 569 m3
Måleenhet: pg/m3
Datafiler: PA_7690.D

Kjeller, 25.03.04

Komponent	Konsentrasjon	Gjenvinning
Struktur	pg/m3	%
HCB	71,0	38
α -HCH	10,6	78
γ -HCH	9,24	103

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
(i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
Dette skyldes mulig interferanse og/eller instrumentstøy.
- : Ikke analysert
(b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater

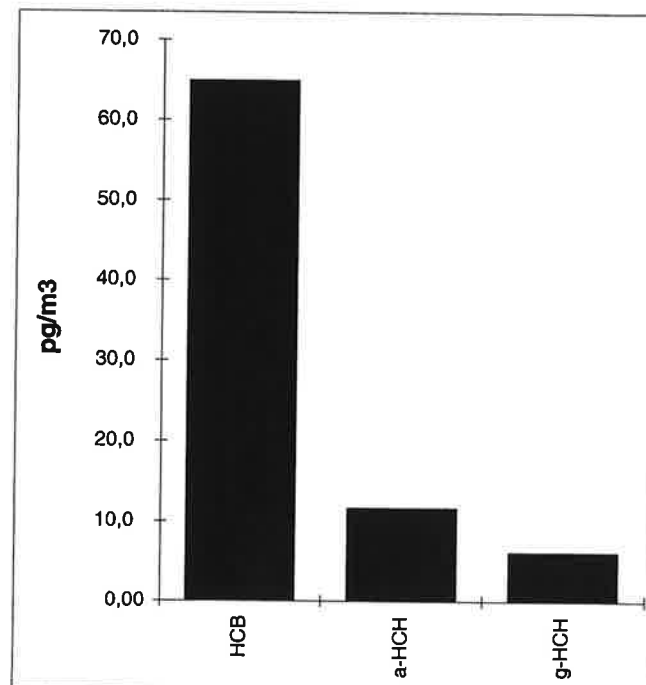


Vedlegg til målerapport nr: O-2500
 NILU-Prøvenummer: 03/1807
 Kunde: Camp 03
 Kundernes prøvemerking: 20-21.11.03 1200-1200
 : 160-160
 Prøvetype: Luft
 Prøvemengde: 578 m³
 Måleenhet: pg/m³
 Datafiler: PA_7673.D

Kjeller, 25.03.04

Komponent	Konsentrasjon	Gjenvinning
Struktur	pg/m ³	%
HCB	64,8	37
α-HCH	11,6	76
γ-HCH	6,04 b	107

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
 (i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
 Dette skyldes mulig interferanse og/eller instrumentstøy.
 - : Ikke analysert
 (b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater

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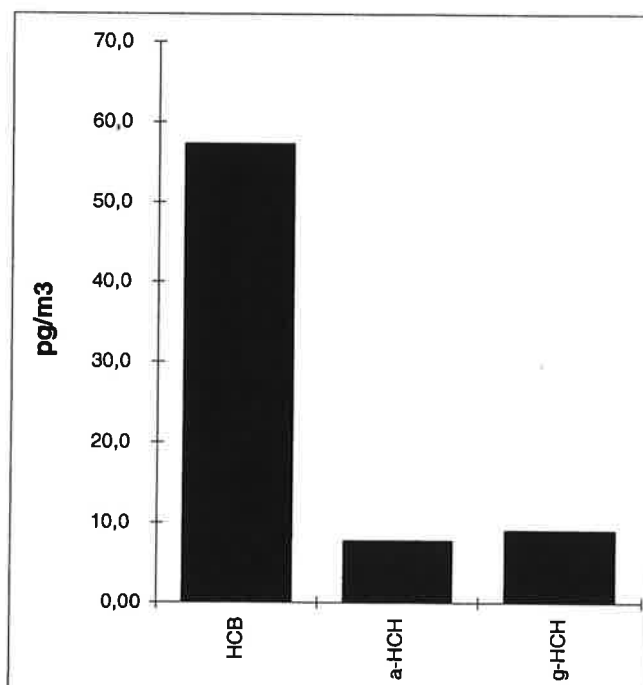


Vedlegg til målerapport nr: O-2500
NILU-Prøvenummer: 03/1894
Kunde: Camp 03
Kundenes prøvermerking: 27-28.11.03 1700-1700
: 160-150
Prøvetype: Luft
Prøvemengde: 560 m3
Måleenhet: pg/m3
Datafiler: PA_7676.D

Kjeller, 25.03.04

Komponent	Konsentrasjon	Gjenvinning
Struktur	pg/m3	%
HCB	57,2	39
α -HCH	7,68	67
γ -HCH	8,93	80

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
(i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
Dette skyldes mulig interferanse og/eller instrumentstøy.
- : Ikke analysert
(b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater

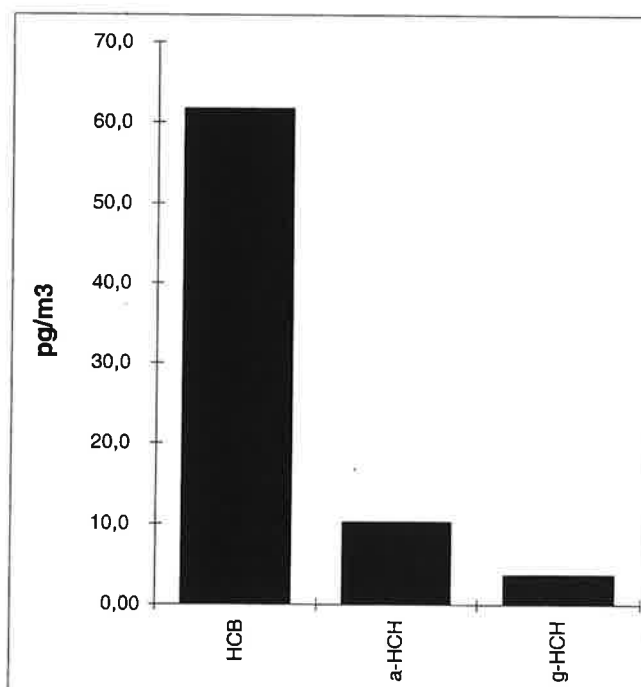


Vedlegg til målerapport nr: O-2500
 NILU-Prøvenummer: 03/1926
 Kunde: Camp 03
 Kundernes prøvemerking: 4-5.12.03 1215-1215
 : 160-148
 Prøvetype: Luft
 Prøvemengde: 557 m3
 Måleenhet: pg/m3
 Datafiler: PA_7677.D

Kjeller, 29.04.2004

Komponent	Konsentrasjon	Gjenvinning
Struktur	pg/m3	%
HCB	61,6	43
α -HCH	10,1	68
γ -HCH	3,62 b	77

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
 (i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
 Dette skyldes mulig interferanse og/eller instrumentstøy.
 - : Ikke analysert
 (b): Mindre enn 10 ganger blindverdi.



HCH/HCB-Analyseresultater

55

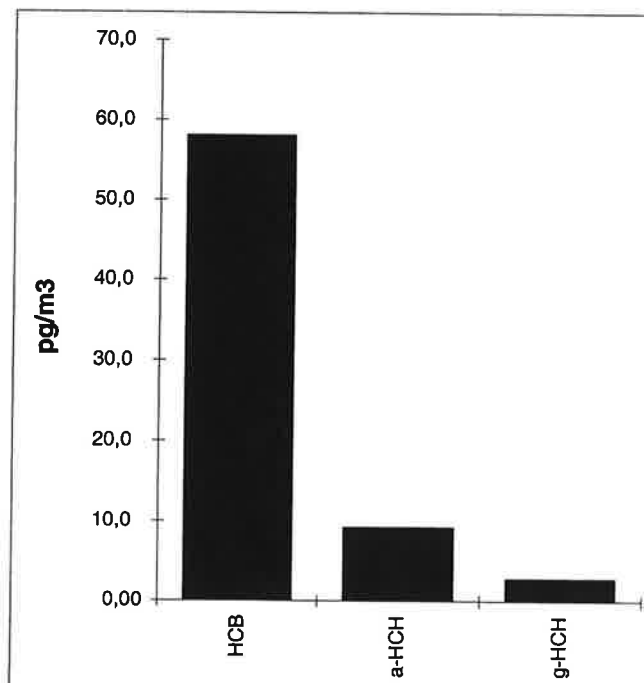


Vedlegg til målerapport nr: O-2500
NILU-Prøvenummer: 03/1969
Kunde: Camp 03
Kundenes prøvemerking: 11-12.12.03 1600-1600
: 160-158
Prøvetype: Luft
Prøvemengde: 575 m³
Måleenhet: pg/m³
Datafiler: PA_7668.D

Kjeller, 25.03.04

Komponent	Konsentrasjon	Gjenvinning
Struktur	pg/m ³	%
HCB	58,0	41
α-HCH	9,15	65
γ-HCH	2,73 b	70

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
(i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
Dette skyldes mulig interferanse og/eller instrumentstøy.
- : Ikke analysert
(b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater

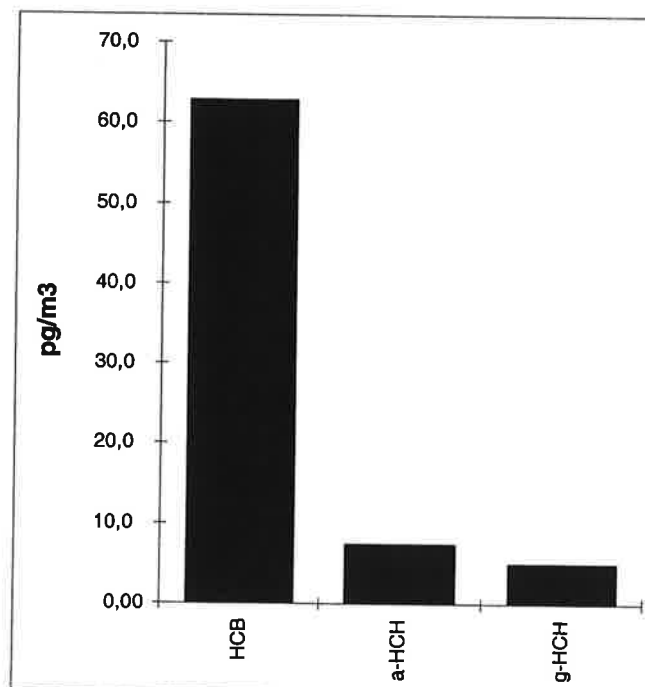


Vedlegg til målerapport nr: O-2500
 NILU-Prøvenummer: 03/1970
 Kunde: Camp 03
 Kundernes prøvemerking: 18-19.12.03 1230-1230
 : 160-154
 Prøvetype: Luft
 Prøvemengde: 568 m³
 Måleenhet: pg/m³
 Datafiler: PA_7679.D

Kjeller, 25.03.04

Komponent	Konsentrasjon	Gjenvinning
Struktur	pg/m ³	%
HCB	62,7	42
α-HCH	7,33	76
γ-HCH	4,94 b	88

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
 (i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
 Dette skyldes mulig interferanse og/eller instrumentstøy.
 - : Ikke analysert
 (b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater

57

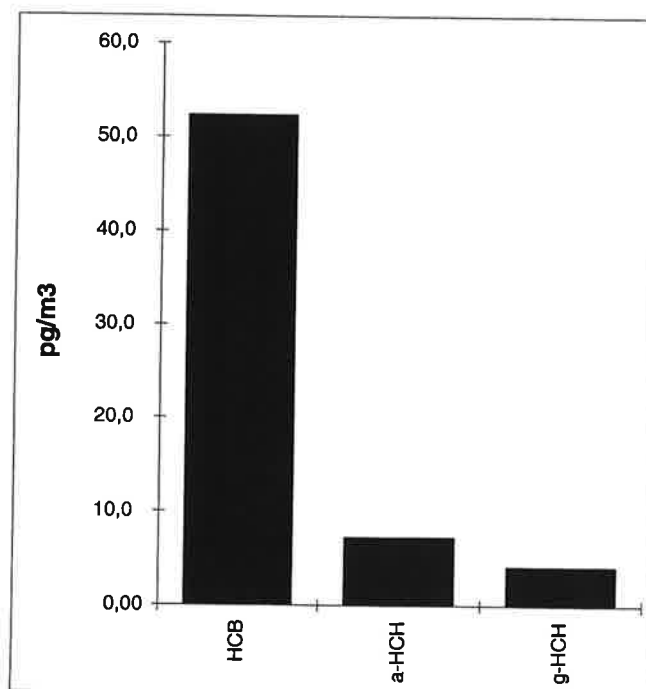


Vedlegg til målerapport nr: O-2500
NILU-Prøvenummer: 04/20
Kunde: Camp 03
Kundenes prøvemerking: 25-26.12.03 1600-1600
: 160-142
Prøvetype: Luft
Prøvemengde: 546 m³
Måleenhet: pg/m³
Datafiler: PA_7680.D

Kjeller, 25.03.04

Komponent	Konsentrasjon	Gjenvinning
Struktur	pg/m ³	%
HCB	52,2	42
α-HCH	7,20	69
γ-HCH	4,10 b	75

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
(i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
Dette skyldes mulig interferanse og/eller instrumentstøy.
- : Ikke analysert
(b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

Vedlegg 2

Organiske forbindelser i luft på Birkenes (O-2580)

Målerapport nr. O-2580

Oppdragsgiver: Statens forurensningstilsyn (SFT)
Postboks 8100 DEP
0032 OSLO

Prosjekt nr.: O-90006

Prøvetaking:

Sted: Birkenes
Ansvar: NILU
Kommentar:

Prøveinformasjon:

NILU prøvenr.	Kundens prøvemerkning	Prøvetype	Prøven mottatt	Prøven analysert
03/1599	Bi 23-24.10.03 0525-0524	Luft	03.11.03	15.01 – 29.04.04
03/1818	Bi 13-14.11.03 0640-0650	"	01.12.03	29.01 – 29.04.04
03/1831	Bi 27-28.11.03 0631-0648	"	04.12.03	"
03/1943	Bi 11-12.12.03 0633-0648	"	18.12.03	"
04/22	Bi 25-26.12.03 0638-0704	"	06.01.04	05.02 – 29.04.04

Analyser:

Utført av: Norsk institutt for luftforskning
Postboks 100
N-2027 KJELLER

Målemetode: NILU-O-2 ("Bestemmelse av tungflyktige persistente organiske forbindelser – pesticider og PCB'er")

Kommentarer:

Godkjenning: Kjeller, 29. april 2004

Ole-Anders Braathen

Ole-Anders Braathen
Avd.direktør, Kjemisk analyse

Vedlegg: 5 HCH/HCB-analyser: 5 sider
Målerapporten og vedleggene omfatter totalt 7 sider

Måleresultatene gjelder bare de prøvene som er analysert. Denne rapporten skal ikke gjengis i utdrag, uten skriftlig godkjenning fra laboratoriet.

HCH/HCB-Analyseresultater

63

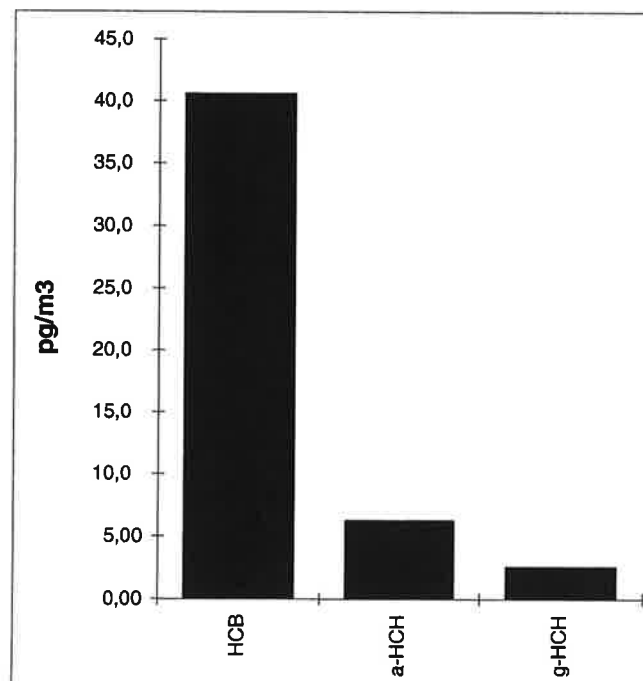


Vedlegg til målerapport nr: O-2580
NILU-Prøvenummer: 03/1599
Kunde: Camp 03
Kundenes prøvermerking: Bi 23-24.10.03 0525-0524
: 160-155
Prøvetype: Luft
Prøvemengde: 570 m3
Måleenhet: pg/m3
Datafiler: PA_7683.D

Kjeller, 26.03.04

Komponent	Konsentrasjon	Gjenvinning
Struktur	pg/m3	%
HCB	40,6	40
α -HCH	6,22	63
γ -HCH	2,54	71

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
(i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
Dette skyldes mulig interferanse og/eller instrumentstøy.
- : Ikke analysert
(b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater

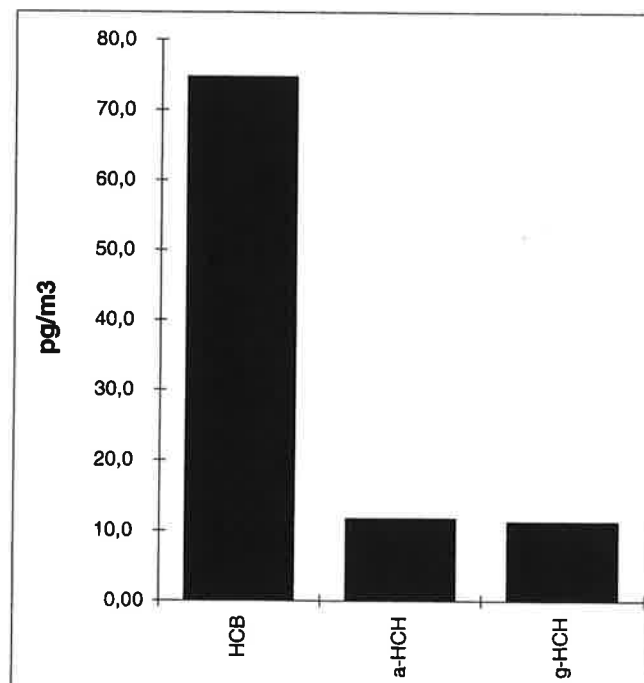


Vedlegg til målerapport nr: O-2580
 NILU-Prøvenummer: 03/1818
 Kunde: Camp 03
 Kundernes prøvermerking: Bi 13-14.11.03 0640-0650
 : 160-150
 Prøvetype: Luft
 Prøvemengde: 565 m3
 Måleenhet: pg/m3
 Datafiler: PA_7684.D

Kjeller, 26.03.04

Komponent	Konsentrasjon	Gjenvinning
Struktur	pg/m3	%
HCB	74,6	40
α -HCH	11,6	80
γ -HCH	11,2	90

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
 (i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
 Dette skyldes mulig interferanse og/eller instrumentstøy.
 - : Ikke analysert
 (b): Mindre enn 10 ganger blindverdi.



HCH/HCB-Analyseresultater

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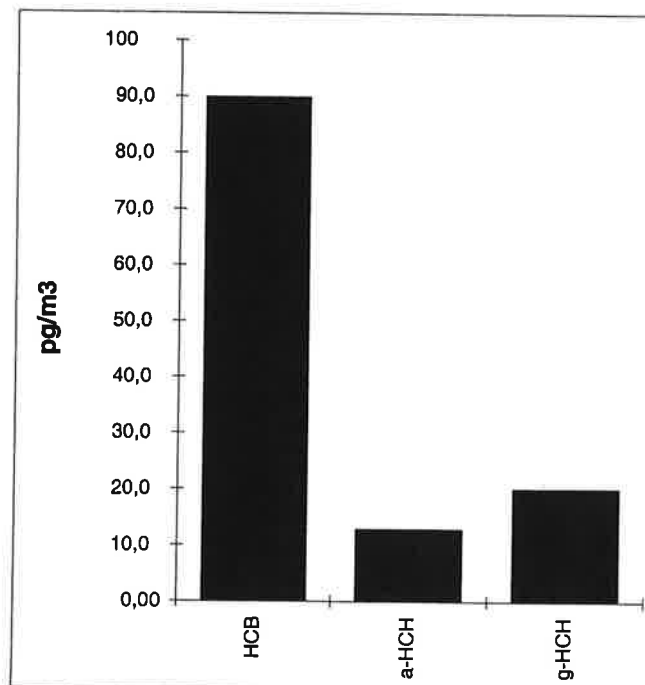


Vedlegg til målerapport nr: O-2580
NILU-Prøvenummer: 03/1831
Kunde: Camp 03
Kundenes prøvemerking: Bi 27-28.11.03 0631-0648
: 160-153
Prøvetype: Luft
Prøvemengde: 573 m3
Måleenhet: pg/m3
Datafiler: PA_7685.D

Kjeller, 26.03.04

Komponent	Konsentrasjon	Gjenvinning
Struktur	pg/m3	%
HCB	89,8	38
α -HCH	12,7	75
γ -HCH	19,9	87

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
(i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
Dette skyldes mulig interferanse og/eller instrumentstøy.
- : Ikke analysert
(b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater

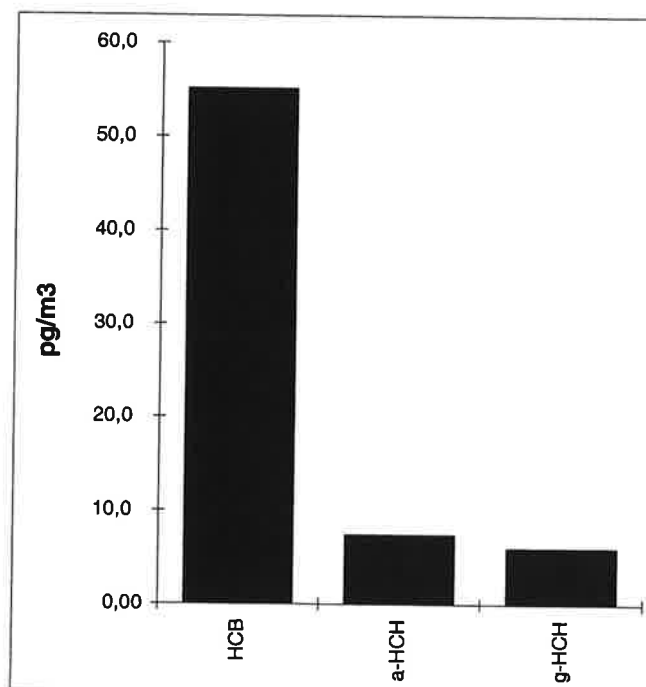


Vedlegg til målerapport nr: O-2580
 NILU-Prøvenummer: 03/1943
 Kunde: Camp 03
 Kundernes prøvermerking: Bi 11-12.12.03 0633-0648
 : 160-159
 Prøvetype: Luft
 Prøvemengde: 584 m3
 Måleenhet: pg/m3
 Datafiler: PA_7686.D

Kjeller, 26.03.04

Komponent	Konsentrasjon	Gjenvinning
Struktur	pg/m3	%
HCB	55,0	44
α -HCH	7,36	76
γ -HCH	5,94	86

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
 (i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
 Dette skyldes mulig interferanse og/eller instrumentstøy.
 - : Ikke analysert
 (b): Mindre enn 10 ganger blindverdi.



HCH/HCB-Analyseresultater

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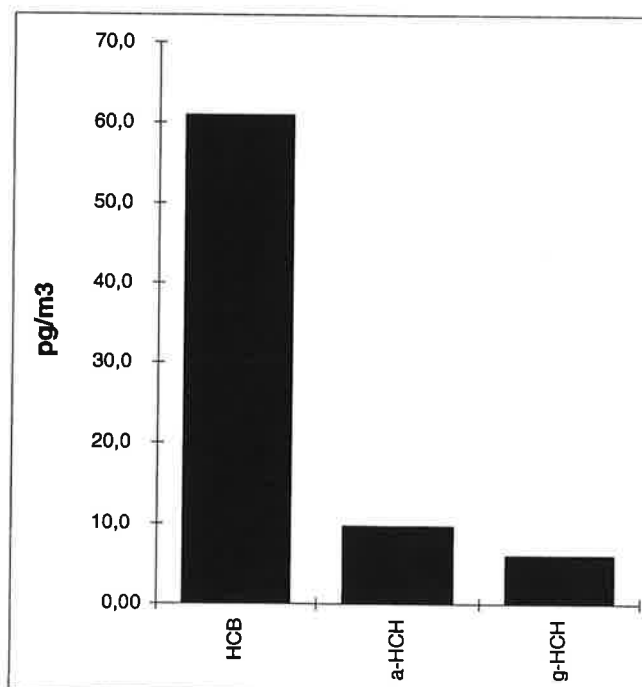


Vedlegg til målerapport nr: O-2580
NILU-Prøvenummer: 04/22
Kunde: Camp 03
Kundenes prøvemerking: Bi 25-26.12.03 0638-0704
: 160-154
Prøvetype: Luft
Prøvemengde: 577 m³
Måleenhet: pg/m³
Datafiler: PA_7682.D

Kjeller, 26.03.04

Komponent	Konsentrasjon	Gjenvinning
Struktur	pg/m ³	%
HCB	60,9	35
α-HCH	9,60	53
γ-HCH	5,93	57

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
(i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
Dette skyldes mulig interferanse og/eller instrumentstøy.
- : Ikke analysert
(b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

Vedlegg 3

Organiske forbindelser i nedbør på Lista (O-2501)

Målerapport nr. O-2501

Oppdragsgiver: Statens forurensningstilsyn (SFT)
Postboks 8100 DEP
0032 OSLO

Prosjekt nr.: O-90006

Prøvetaking:

Sted: Lista fyr
Ansvar: NILU
Kommentar:

Prøveinformasjon:

NILU prøvenr.	Kundens prøvermerking	Prøvetype	Prøven mottatt	Prøven analysert
03/86	6-13.1.03 0750-0745	Nedbør	23.01.03	11.06.03 – 25.03.04
03/87	13-20.1.03 0745-0745	"	"	"
03/155 a	20-22.1.03 0745-0930	"	06.02.03	16.06.03 – 25.03.04
03/155 b	22-27.1.03 0930-0730	"	"	12.06.03 – 25.03.04
03/156 a	27.1-1.2.03 0730-0700	"	"	"
03/156 b	1-3.2.03 0700-0700	"	"	16.06.03 – 25.03.04
03/276	3-10.2.03 0700-0700	"	06.03.03	11.06.03 – 25.03.04
03/326 a	3-6.3.03 0820-0700	"	14.03.03	13.06.03 – 25.03.04
03/326 b	6-8.3.03 0700-1830	"	"	"
03/361	8-17.3.03 1830-0710	"	27.03.03	12.06.03 – 25.03.04
03/446+03/447	24.3-7.4.03 0710-0830	"	25.04.03	13.06.03 – 25.03.04
03/492	21-28.4.03 1000-0830	"	08.05.03	16.06.03 – 25.03.04
03/493 a	28.4 – 1.5.03 0830-0850	"	"	07.11.03 – 28.04.04
03/493 b	1-5.5.03 0850-0730	"	08.05.03	07.11.03 – 28.04.04
03/709	5-12.5.03 0730-1000	"	23.05.03	07.11.03 – 28.04.04
03/710 a	12-15.5.03 0930-0830	"	"	25.11.03 – 28.04.04
03/710 b	15-19.5.03 0830-0815	"	"	"
03/868	19-26.5.03 0815-0820	"	13.06.03	"
03/870 a	2-5.6.03 1230-0830	"	"	10.02 – 28.04.04
03/870 b	5-9.6.03 0830-0830	"	"	04.12.03 – 28.04.04
03/968	9-16.6.03 0830-0740	"	"	"
03/969	16-23.6.03 0740-0800	"	03.07.03	10.02 – 28.04.04
03/970+03/971	23-30.6.03 0800-0820	"	"	"
03/1051	30.6-7.7.03 0820-0930	"	"	04.12.03 – 28.04.04
03/1053	14-21.7.03 0930-0815	"	24.07.03	11.02 – 28.04.04
03/1233	21-28.7.03 0815-1300	"	08.09.03	"
03/1234	28.7-8.8.03 1300-1045	"	"	"
03/1235	8-25.8.03 1045-1730	"	"	12.02 – 28.04.04
03/1236	25.8-1.9.03 1730-0815	"	"	"
03/1385	1-8.9.03 0815-1000	"	06.10.03	"
03/1386	8-15.9.03 1000-1130	"	"	17.02 – 28.04.04
03/1387	15-22.9.03 1130-0500	"	"	16.02 – 28.04.04
03/1388	22-29.9.03 0500-0900	"	"	17.02 – 28.04.04
03/1546 a	29.9-1.10.03 0900-1100	"	23.10.03	"
NILU prøvenr.	Kundens prøvermerking	Prøvetype	Prøven mottatt	Prøven analysert
03/1546 b	1-6.10.03 1100-1300	Nedbør	23.10.03	18.02 – 28.04.04
03/1547	6-13.10.03 1300-0600	"	"	"
03/1548+03/1709	13-27.10.03 0600-1200	"	13.11.03	"

03/1710 a	27.10-1.11.03 1200-1300	"	"	02.03 – 28.04.04
03/1710 b	1-3.11.03 1300-1145	"	"	"
03/1711	3-10.11.03 1145-1140	"	"	16.02 – 28.04.04
03/1929	10-17.11.03 1145-1100	"	12.12.03	02.03 – 28.04.04
03/1930	17-23.11.03 1110-2100	"	"	04.03 – 28.04.04
03/1931	23-30.11.03 2100-2100	"	"	"
03/1932	30.11-8.12.03 2100-1115	"	"	"
04/24	8-15.12.03 1115-1615	"	06.01.04	08.03 – 28.04.04
04/25	15-22.12.03 1630-1130	"	"	"
04/26+04/27	22.12.03-1.1.04 1130-1200	"	"	"

Analyser:

Utført av: Norsk institutt for luftforskning
Postboks 100
N-2027 KJELLER

Målemetode: NILU-O-2 ("Bestemmelse av tungflyktige persistente organiske forbindelser – pesticider og PCB'er")

Kommentarer:

Godkjenning: Kjeller, 29. april 2004

Ole-Anders Braathen

Ole-Anders Braathen
Avd.direktør, Kjemisk analyse

Vedlegg: 47 HCH/HCB-analyser: 47 sider
Målerapporten og vedleggene omfatter totalt 49 sider

Måleresultatene gjelder bare de prøvene som er analysert. Denne rapporten skal ikke gjengis i utdrag, uten skriftlig godkjenning fra laboratoriet.

HCH/HCB-Analyseresultater

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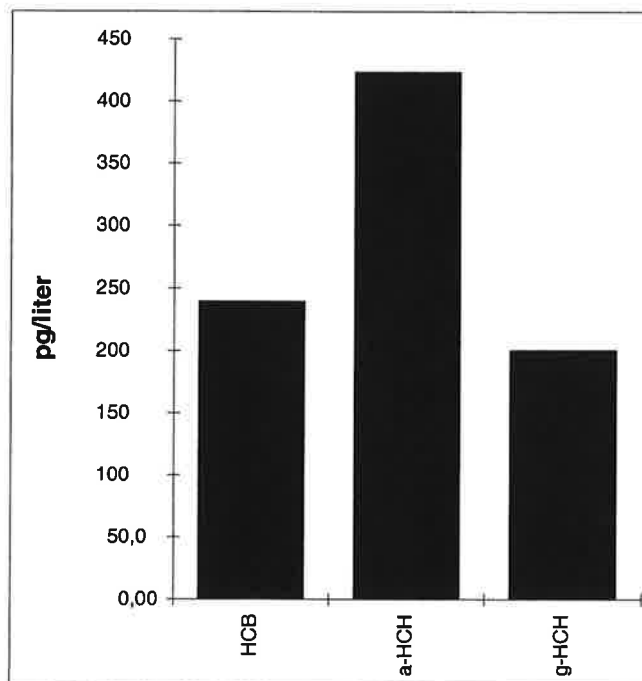


Vedlegg til målerapport nr: O-2501
NILU-Prøvenummer: 03/86
Kunde: Camp. 03
Kundenes prøvemerking: 6-13.1.03
: 0750-0745
Prøvetype: Nedbør
Prøvemengde: 1,02 l
Måleenhet: pg/liter
Datafiler: PA_7054.D

Kjeller, 08.03.04

Komponent Struktur	Konsentrasjon	Gjenvinning
	pg/liter	%
HCB	239 i,b	30
α -HCH	423 i,b	38
γ -HCH	200 b	48

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
(i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
Dette skyldes mulig interferanse og/eller instrumentstøy.
- : Ikke analysert
(b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater

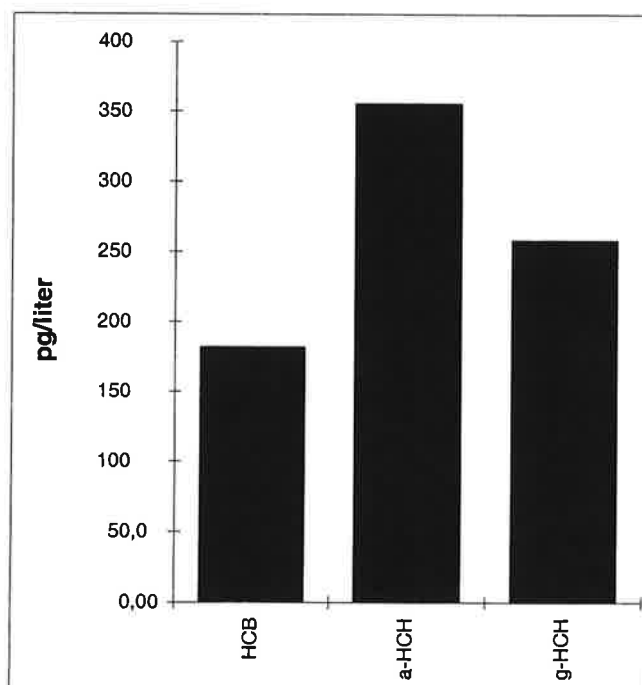


Vedlegg til målerapport nr: O-2501
 NILU-Prøvenummer: 03/87
 Kunde: Camp. 03
 Kundernes prøvermerking: 13-20.1.03
 : 0745-0745
 Prøvetype: Nedbør
 Prøvemengde: 1,07 l
 Måleenhet: pg/liter
 Datafiler: PA_7055.D

Kjeller, 08.03.04

Komponent Struktur	Konsentrasjon		Gjenvinning
	pg/liter		%
HCB	181	b	33
α -HCH	355	b	40
γ -HCH	258	b	50

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
 (i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
 Dette skyldes mulig interferanse og/eller instrumentstøy.
 - : Ikke analysert
 (b): Mindre enn 10 ganger blindverdi.



HCH/HCB-Analyseresultater

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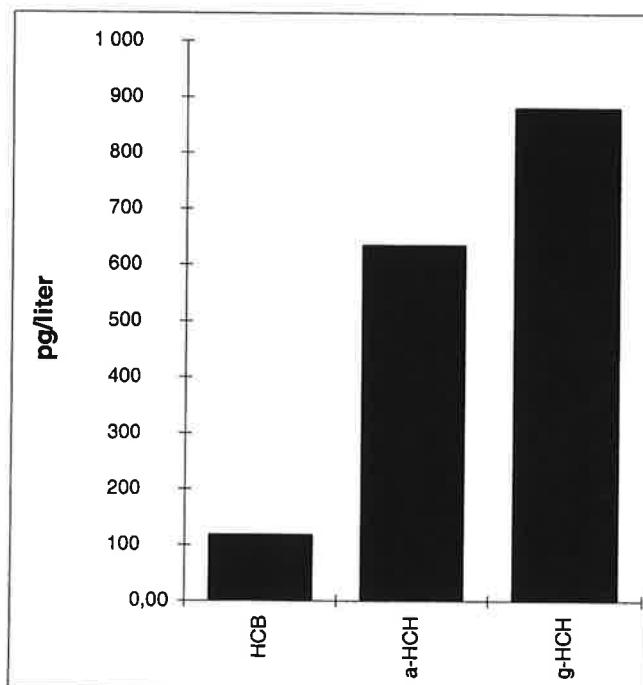


Vedlegg til målerapport nr: O-2501
NILU-Prøvenummer: 03/155 a
Kunde: Camp. 03
Kundenes prøvemerking: 20-22.1.03
: 0745-0930
Prøvetype: Nedbør
Prøvemengde: 0,98 l
Måleenhet: pg/liter
Datafiler: PA_6979.D

Kjeller, 08.03.04

Komponent	Konsentrasjon		Gjenvinning
	Struktur	pg/liter	%
HCB	117	b	38
α -HCH	633	b	44
γ -HCH	880		63

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
(i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
Dette skyldes mulig interferanse og/eller instrumentstøy.
- : Ikke analysert
(b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater

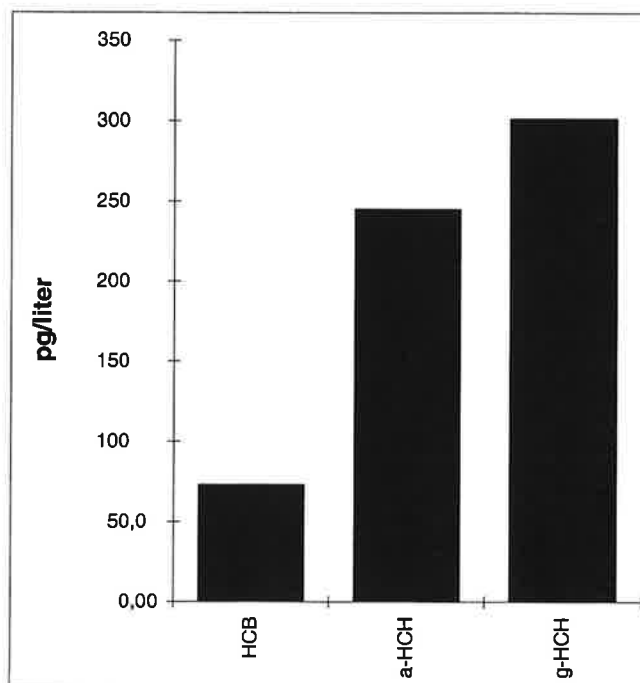


Vedlegg til målerapport nr: O-2501
 NILU-Prøvenummer: 03/155 b
 Kunde: Camp. 03
 Kundernes prøvemerking: 22-27.1.03
 : 0930-0730
 Prøvetype: Nedbør
 Prøvemengde: 1,44 l
 Måleenhet: pg/liter
 Datafiler: PA_7056.D

Kjeller, 08.03.04

Komponent Struktur	Konsentrasjon	Gjenvinning
	pg/liter	%
HCB	72,6 i,b	38
α -HCH	245 b	44
γ -HCH	301 b	55

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
 (i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
 Dette skyldes mulig interferanse og/eller instrumentstøy.
 - : Ikke analysert
 (b): Mindre enn 10 ganger blindverdi.



HCH/HCB-Analyseresultater

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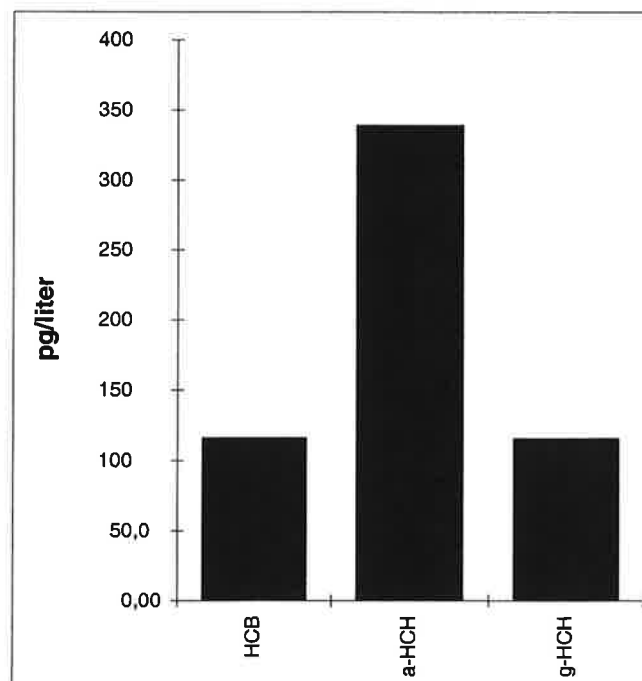


Vedlegg til målerapport nr: O-2501
NILU-Prøvenummer: 03/156 a
Kunde: Camp. 03
Kundenes prøvermerking: 27.1-1.2.03
: 0730-0700
Prøvetype: Nedbør
Prøvemengde: 0,87 l
Måleenhet: pg/liter
Datafiler: PA_7057.D

Kjeller, 08.03.04

Komponent Struktur	Konsentrasjon	Gjenvinning
	pg/liter	%
HCB	116 i,b	38
α -HCH	339 b	44
γ -HCH	115 b	55

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
(i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
Dette skyldes mulig interferanse og/eller instrumentstøy.
- : Ikke analysert
(b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater

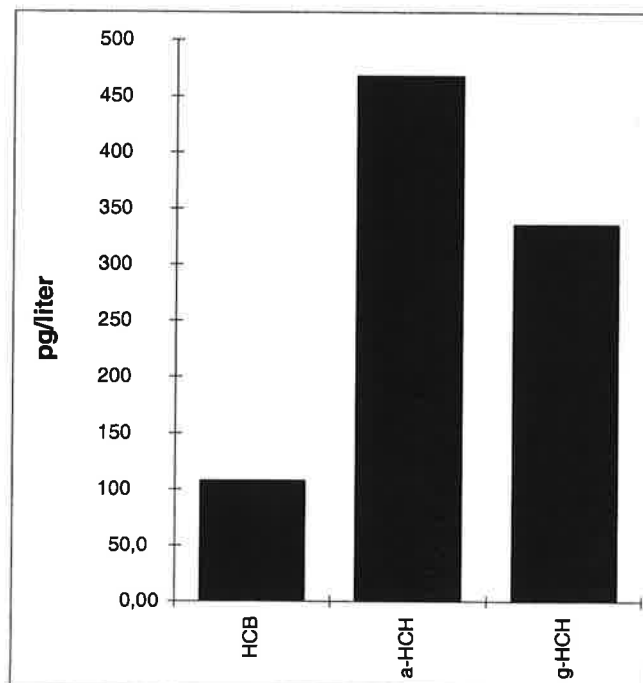


Vedlegg til målerapport nr: O-2501
 NILU-Prøvenummer: 03/156 b
 Kunde: Camp. 03
 Kundens prøvemerkning: 1-3.2.03
 : 0700-0700
 Prøvetype: Nedbør
 Prøvemengde: 0,95 l
 Måleenhet: pg/liter
 Datafiler: PA_6980.D

Kjeller, 08.03.04

Komponent	Konsentrasjon	Gjenvinning
Struktur	pg/liter	%
HCB	107 i,b	38
α -HCH	467 i,b	47
γ -HCH	335 i,b	66

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
 (i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
 Dette skyldes mulig interferanse og/eller instrumentstøy.
 - : Ikke analysert
 (b): Mindre enn 10 ganger blindverdi.



HCH/HCB-Analyseresultater

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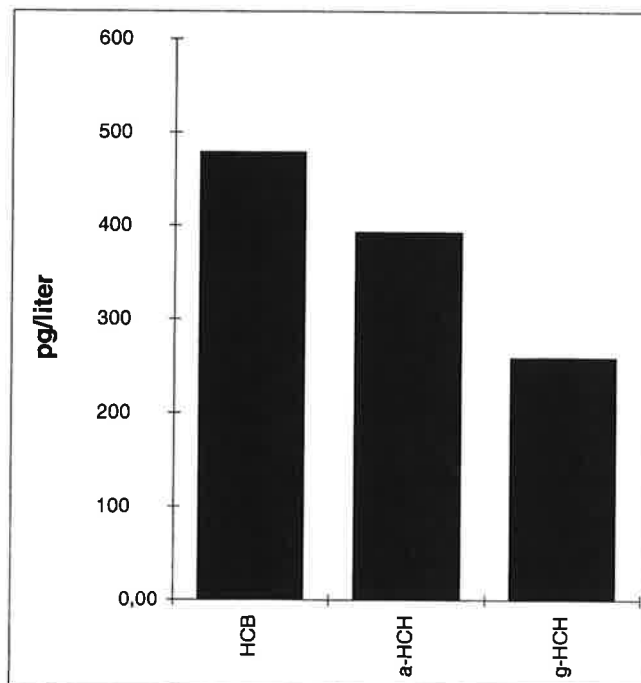


Vedlegg til målerapport nr: O-2501
NILU-Prøvenummer: 03/276
Kunde: Camp. 03
Kundenes prøvemerking: 3-10.2.03
: 0700-0700
Prøvetype: Nedbør
Prøvemengde: 1,03 l
Måleenhet: pg/liter
Datafiler: PA_7058.D

Kjeller, 08.03.04

Komponent Struktur	Konsentrasjon		Gjenvinning
	pg/liter		%
HCb	478	b	32
α -HCH	392	b	40
γ -HCH	258	b	47

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
(i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
Dette skyldes mulig interferanse og/eller instrumentstøy.
- : Ikke analysert
(b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater

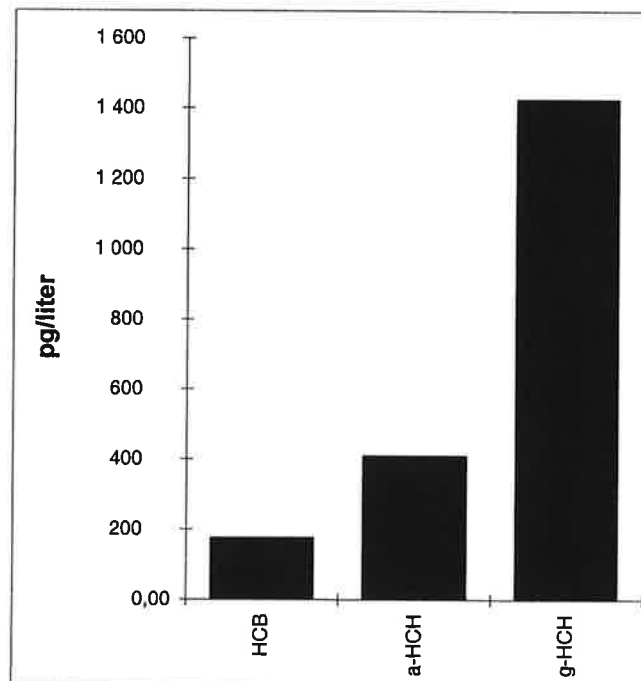


Vedlegg til målerapport nr: O-2501
 NILU-Prøvenummer: 03/326 a
 Kunde: Camp. 03
 Kundernes prøvemerking: 3-6.3.03
 : 0820-0700
 Prøvetype: Nedbør
 Prøvemengde: 1,96 l
 Måleenhet: pg/liter
 Datafiler: PA_7060.D

Kjeller, 25.03.04

Komponent Struktur	Konsentrasjon		Gjenvinning
	pg/liter		%
HCB	174	b	37
α -HCH	407	b	46
γ -HCH	1 423		55

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
 (i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
 Dette skyldes mulig interferanse og/eller instrumentstøy.
 - : Ikke analysert
 (b): Mindre enn 10 ganger blindverdi.



HCH/HCB-Analyseresultater

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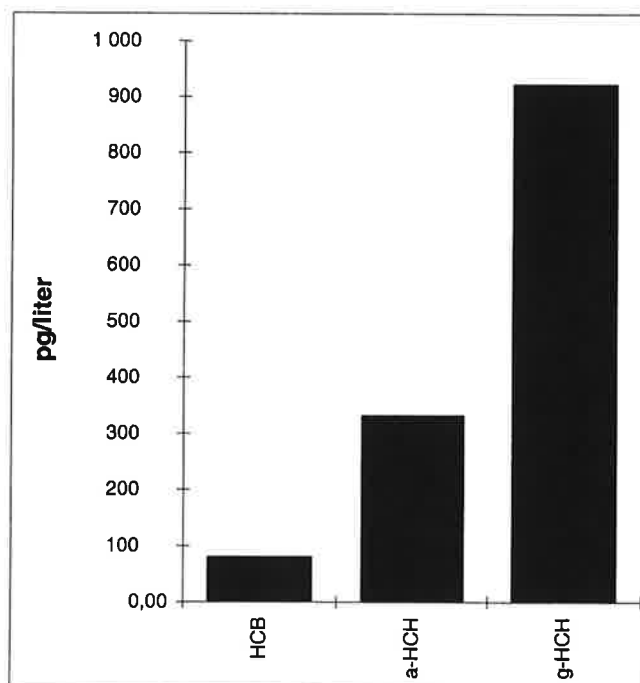


Vedlegg til målerapport nr: O-2501
NILU-Prøvenummer: 03/326 b
Kunde: Camp. 03
Kundenes prøvemerking: 6-8.3.03
: 0700-1830
Prøvetype: Nedbør
Prøvemengde: 2,0 l
Måleenhet: pg/liter
Datafiler: PA_7061.D

Kjeller, 08.03.04

Komponent Struktur	Konsentrasjon	Gjenvinning
	pg/liter	%
HCB	79,1 b	36
α -HCH	331 b	45
γ -HCH	922	56

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
(i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
Dette skyldes mulig interferanse og/eller instrumentstøy.
- : Ikke analysert
(b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater

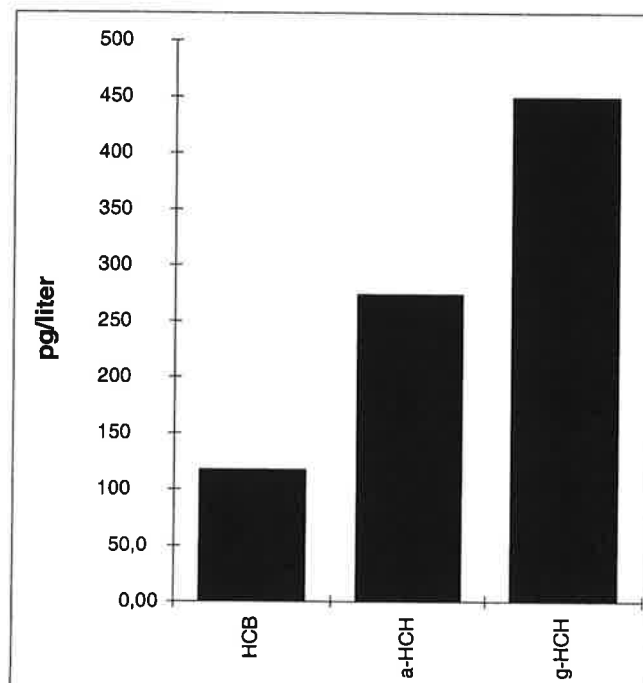


Vedlegg til målerapport nr: O-2501
 NILU-Prøvenummer: 03/361
 Kunde: Camp. 03
 Kundernes prøvemerking: 8-17.3.03
 : 1830-0710
 Prøvetype: Nedbør
 Prøvemengde: 0,8 l
 Måleenhet: pg/liter
 Datafiler: PA_7062.D

Kjeller, 08.03.04

Komponent	Konsentrasjon	Gjenvinning
Struktur	pg/liter	%
HCB	117 i,b	29
α -HCH	273 b	41
γ -HCH	449 b	51

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
 (i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
 Dette skyldes mulig interferanse og/eller instrumentstøy.
 - : Ikke analysert
 (b): Mindre enn 10 ganger blindverdi.



HCH/HCB-Analyseresultater

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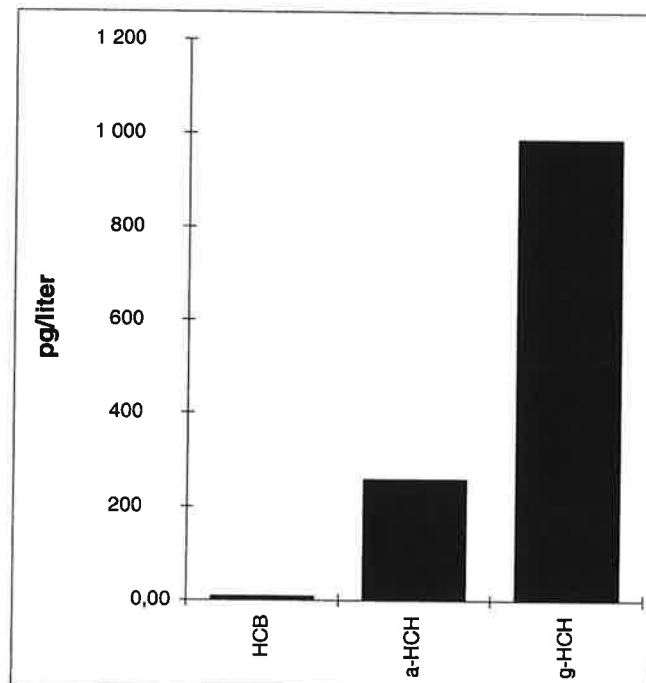


Vedlegg til målerapport nr: O-2501
NILU-Prøvenummer: 03/446 + 03/447
Kunde: Camp. 03
Kundenes prøvemerking: 24.03-07.04.03
: 0710-0830
Prøvetype: Nedbør
Prøvemengde: 0,9 l
Måleenhet: pg/liter
Datafiler: PA_7063.D

Kjeller, 12.03.04

Komponent	Konsentrasjon	Gjenvinning
	Struktur	pg/liter
HCB	< 7,21	27
α -HCH	257 b	46
γ -HCH	985	56

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
(i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
Dette skyldes mulig interferanse og/eller instrumentstøy.
- : Ikke analysert
(b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater

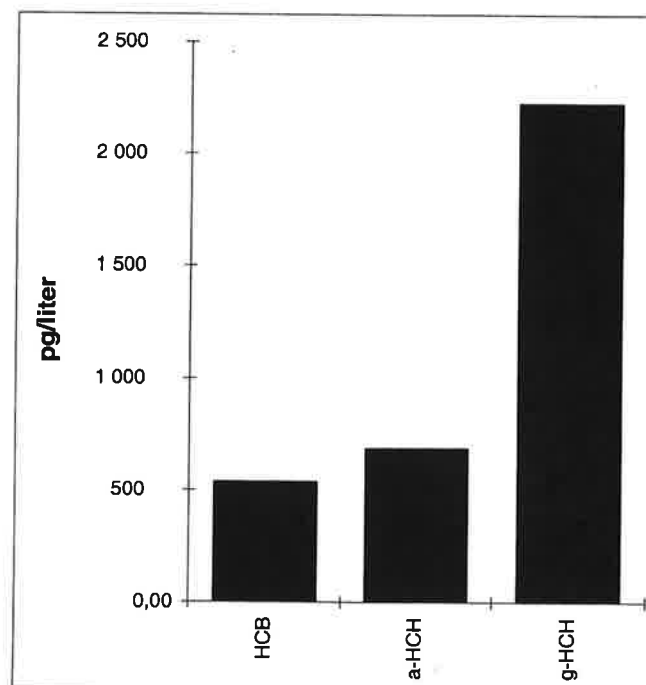


Vedlegg til målerapport nr: O-2501
 NILU-Prøvenummer: 03/492
 Kunde: Camp. 03
 Kundernes prøvemerking: 21-28.4.03
 : 1000-0830
 Prøvetype: Nedbør
 Prøvemengde: 0,82 l
 Måleenhet: pg/liter
 Datafiler: PA_6981.D

Kjeller, 09.03.04

Komponent	Konsentrasjon	Gjenvinning
Struktur	pg/liter	%
HCB	534 b	37
α -HCH	685 b	44
γ -HCH	2 223	60

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
 (i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
 Dette skyldes mulig interferanse og/eller instrumentstøy.
 - : Ikke analysert
 (b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater

85

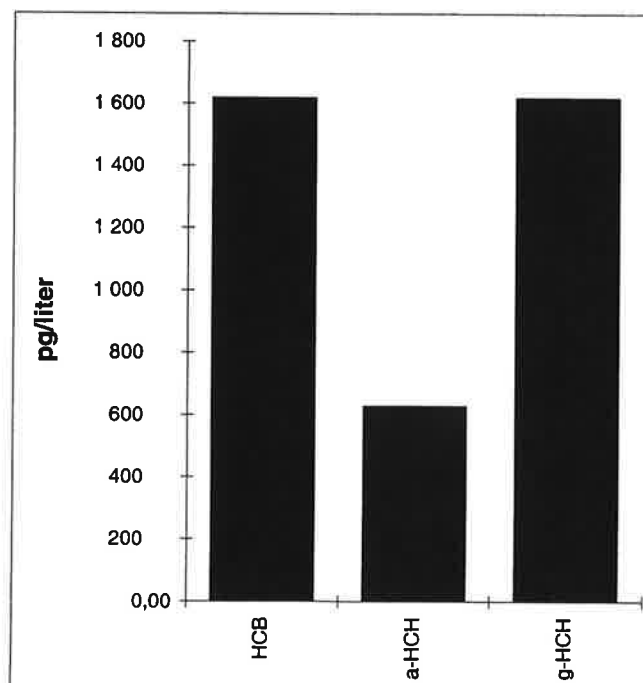


Vedlegg til målerapport nr: O-2501
NILU-Prøvenummer: 03/493 a
Kunde: Camp. 03
Kundenes prøvemerking: 28.4-1.5.03
: 0830-0850
Prøvetype: Nedbør
Prøvemengde: 1,06 l
Måleenhet: pg/liter
Datafiler: PA_7755.D

Kjeller, 26.03.04

Komponent	Konsentrasjon		Gjenvinning
	Struktur	pg/liter	%
HCB	1 616	b	37
α -HCH	626	b	67
γ -HCH	1 616		83

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
(i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
Dette skyldes mulig interferanse og/eller instrumentstøy.
- : Ikke analysert
(b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater

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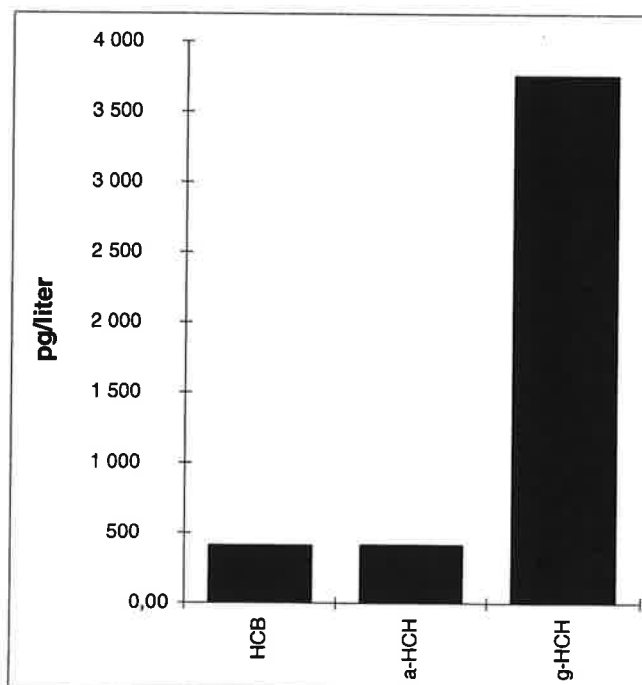
Vedlegg til målerapport nr: O-2501
NILU-Prøvenummer: 03/709
Kunde: Camp. 03
Kundenes prøvemerking: 5-12.5.03 0730-1000

Kjeller, 26.03.04

Prøvetype: Nedbør
Prøvemengde: 0,7 l
Måleenhet: pg/liter
Datafiler: PA_7759.D

Komponent	Konsentrasjon		Gjenvinning
	Struktur	pg/liter	%
HCB	406	b	24
α -HCH	411	b	48
γ -HCH	3 753		55

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
(i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
Dette skyldes mulig interferanse og/eller instrumentstøy.
- : Ikke analysert
(b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater

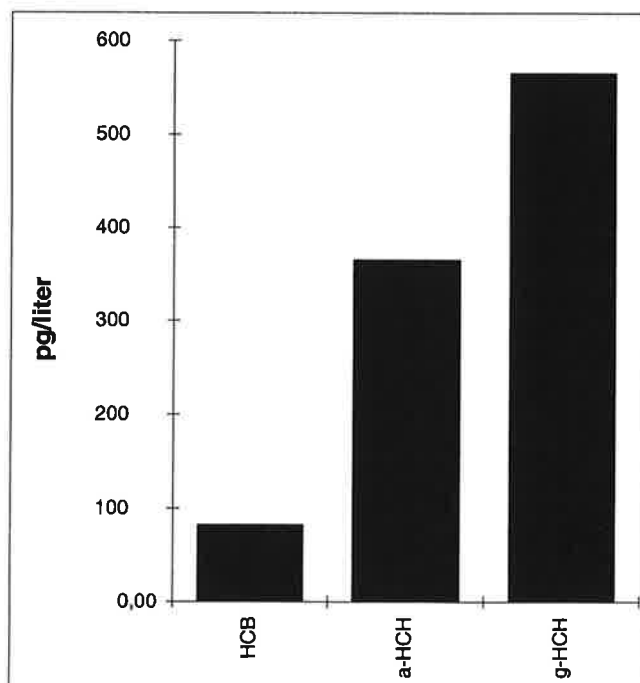


Vedlegg til målerapport nr: O-2501
 NILU-Prøvenummer: 03/710 a
 Kunde: Camp. 03
 Kundernes prøvemerking: 12-15.5.03 0930-0830
 :
 Prøvetype: Nedbør
 Prøvemengde: 1,01 l
 Måleenhet: pg/liter
 Datafiler: PA_7760.D

Kjeller, 26.03.04

Komponent	Konsentrasjon	Gjenvinning
Struktur	pg/liter	%
HCB	81,8 b	41
α -HCH	365 b	57
γ -HCH	565 b	64

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
 (i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
 Dette skyldes mulig interferanse og/eller instrumentstøy.
 - : Ikke analysert
 (b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater

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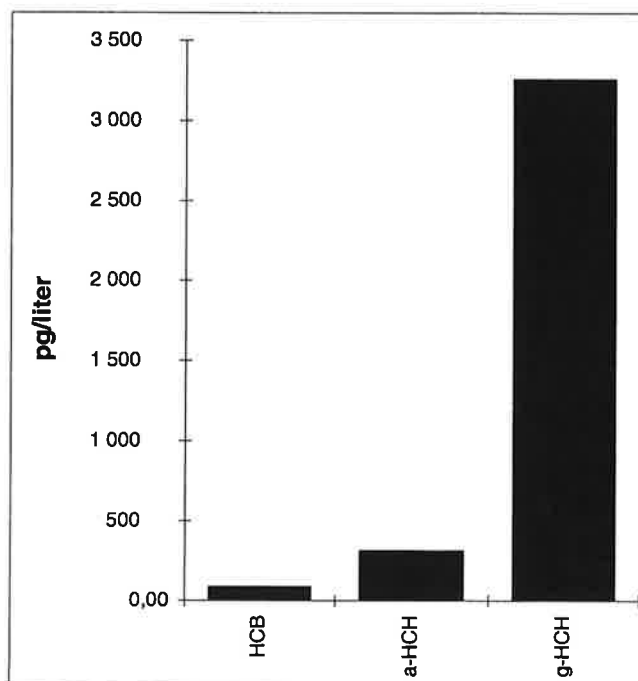


Vedlegg til målerapport nr: O-2501
NILU-Prøvenummer: 03/710 b
Kunde: Camp. 03
Kundenes prøvemerkning: 15-19.5.03 0830-0815
: 15-18.5.03 0830-1100, 18-19.5.03 1100-0815
Prøvetype: Nedbør
Prøvemengde: 1,78 l
Måleenhet: pg/liter
Datafiler: PA_7761.D

Kjeller, 26.03.04

Komponent	Konsentrasjon	Gjenvinning
Struktur	pg/liter	%
HCB	82,1 b	41
α -HCH	309 b	56
γ -HCH	3 256	64

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
(i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
Dette skyldes mulig interferanse og/eller instrumentstøy.
- : Ikke analysert
(b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater



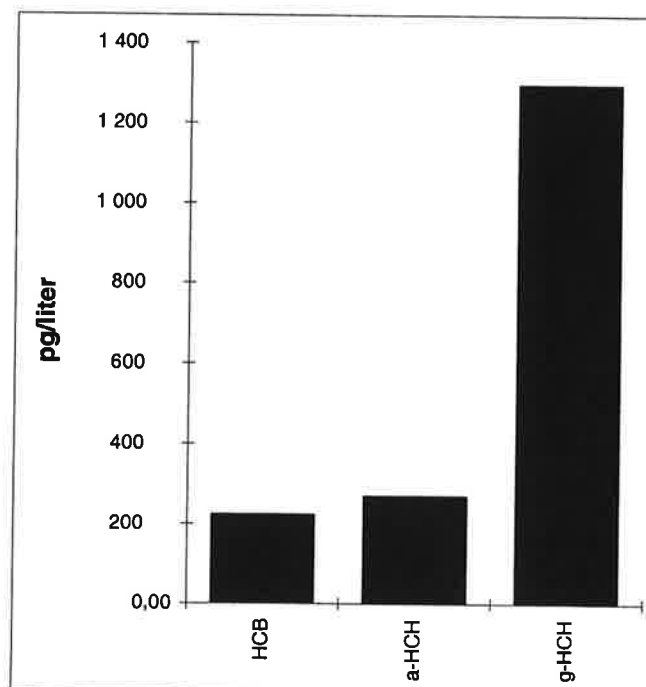
Vedlegg til målerapport nr: O-2501
 NILU-Prøvenummer: 03/868
 Kunde: Camp. 03
 Kundenes prøvemerking: 19-26.5.03 0815-0820

Kjeller, 26.03.04

Prøvetype: Nedbør
 Prøvemengde: 0,86 l
 Måleenhet: pg/liter
 Datafiler: PA_7762.D

Komponent Struktur	Konsentrasjon		Gjenvinning
	pg/liter		%
HCB	222	b	28
α -HCH	269	b	51
γ -HCH	1 295		57

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
 (i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
 Dette skyldes mulig interferanse og/eller instrumentstøy.
 - : Ikke analysert
 (b): Mindre enn 10 ganger blindverdi.



HCH/HCB-Analyseresultater

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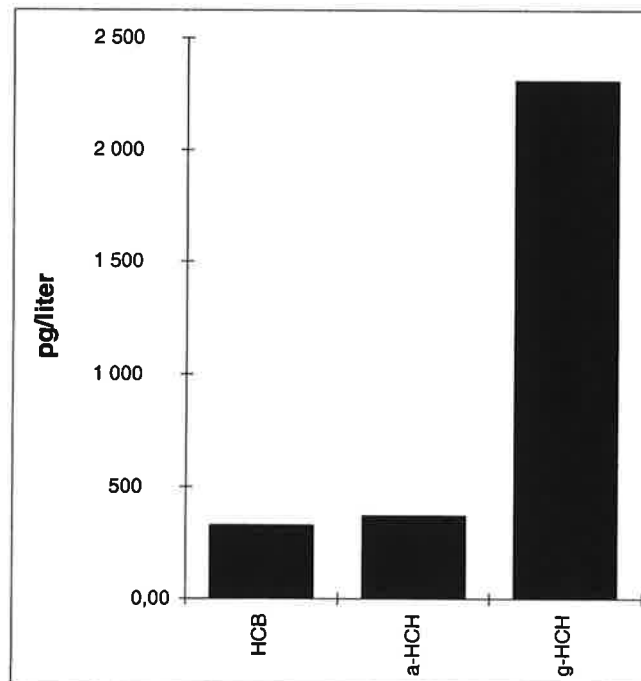
Vedlegg til målerapport nr: O-2501
NILU-Prøvenummer: 03/870 a
Kunde: Camp. 03
Kundenes prøvemerking: 2-5.6.03 1230-0830

Kjeller, 26.03.04

Prøvetype: Nedbør
Prøvemengde: 0,95 l
Måleenhet: pg/liter
Datafiler: PA_7765.D

Komponent	Konsentrasjon		Gjenvinning
	Struktur	pg/liter	%
HCB	326	b	42
α -HCH	368	b	56
γ -HCH	2 307		64

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
(i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
Dette skyldes mulig interferanse og/eller instrumentstøy.
- : Ikke analysert
(b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/PCB-Analyseresultater



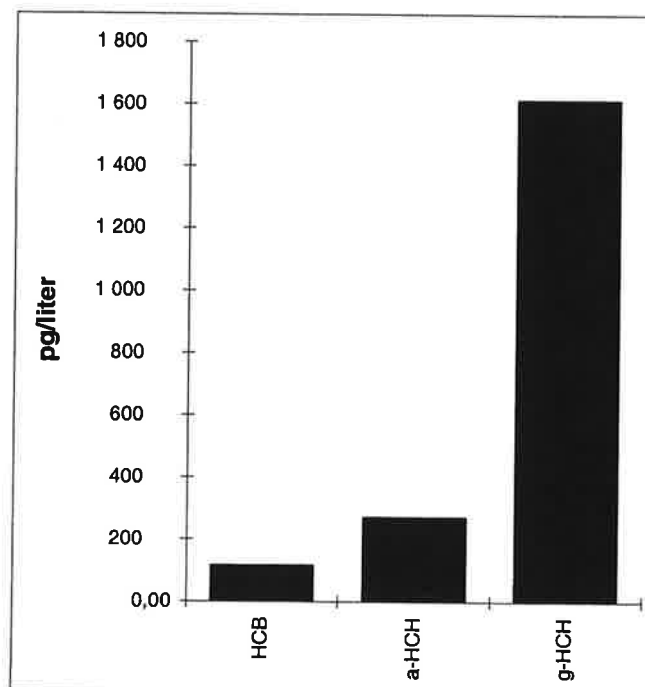
Vedlegg til målerapport nr: O-2501
 NILU-Prøvenummer: 03/870 b
 Kunde: Camp. 03
 Kundernes prøvemerking: 5-9.6.03 0830-0830

Kjeller, 26.03.04

Prøvetype: Nedbør
 Prøvemengde: 0,89 l
 Måleenhet: pg/liter
 Datafiler: PA_7766.D

Komponent	Konsentrasjon	Gjenvinning
Struktur	pg/liter	%
HCB	115 b	36
α -HCH	270 b	48
γ -HCH	1 613	55

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
 (i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
 Dette skyldes mulig interferanse og/eller instrumentstøy.
 - : Ikke analysert
 (b): Mindre enn 10 ganger blindverdi.



HCH/HCB-Analyseresultater

93



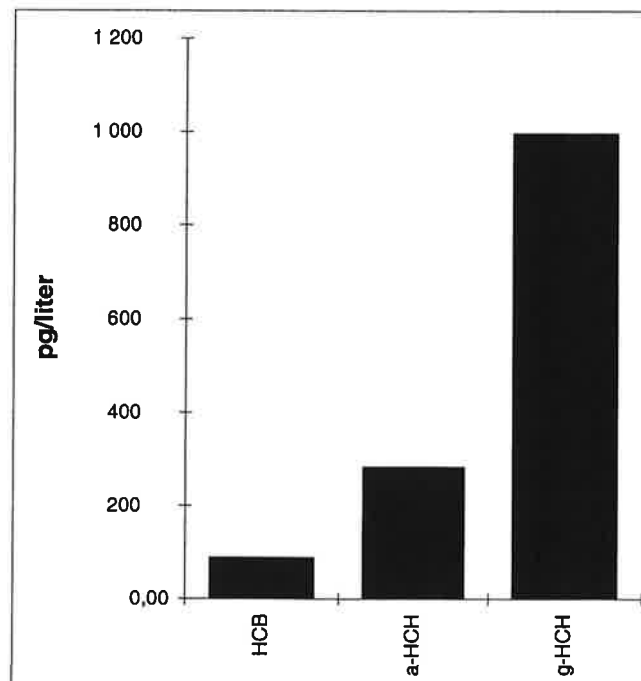
Vedlegg til målerapport nr: O-2501
NILU-Prøvenummer: 03/968
Kunde: Camp. 03
Kundenes prøvermerking: 9-16.6.03 0830-0740

Kjeller, 26.03.04

Prøvetype: Nedbør
Prøvemengde: 0,76 l
Måleenhet: pg/liter
Datafiler: PA_7767.D

Komponent	Konsentrasjon	Gjenvinning
Struktur	pg/liter	%
HCB	86,5 i,b	37
α -HCH	282 b	48
γ -HCH	995	56

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
(i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
Dette skyldes mulig interferanse og/eller instrumentstøy.
- : Ikke analysert
(b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater



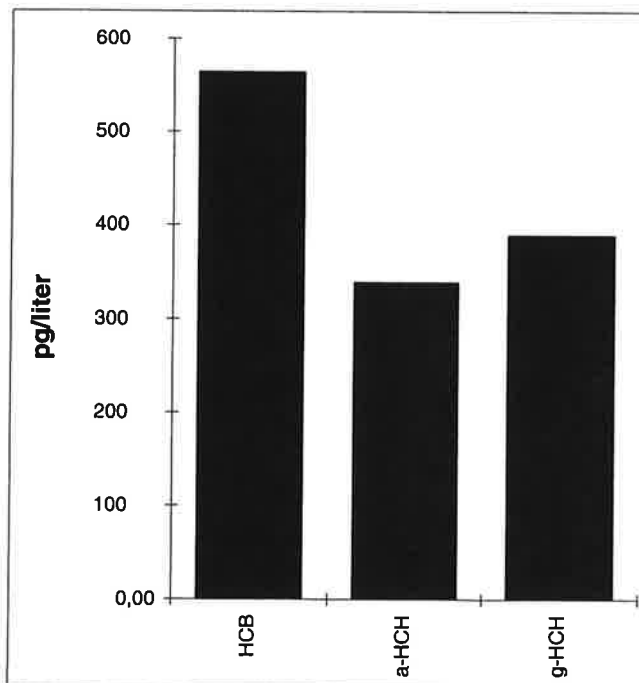
Vedlegg til målerapport nr: O-2501
 NILU-Prøvenummer: 03/969
 Kunde: Camp. 03
 Kundernes prøvemerking: 16-23.6.03 0740-0800

Kjeller, 26.03.04

:
 Prøvetype: Nedbør
 Prøvemengde: 1,05 l
 Måleenhet: pg/liter
 Datafiler: PA_7768.D

Komponent Struktur	Konsentrasjon		Gjenvinning
	pg/liter		%
HCB	564	b	40
α -HCH	338	b	56
γ -HCH	388	b	63

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
 (i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
 Dette skyldes mulig interferanse og/eller instrumentstøy.
 - : Ikke analysert
 (b): Mindre enn 10 ganger blindverdi.



HCH/HCB-Analyseresultater

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Vedlegg til målerapport nr: O-2501

NILU-Prøvenummer: 03/970 + 03/971

Kunde: Camp. 03

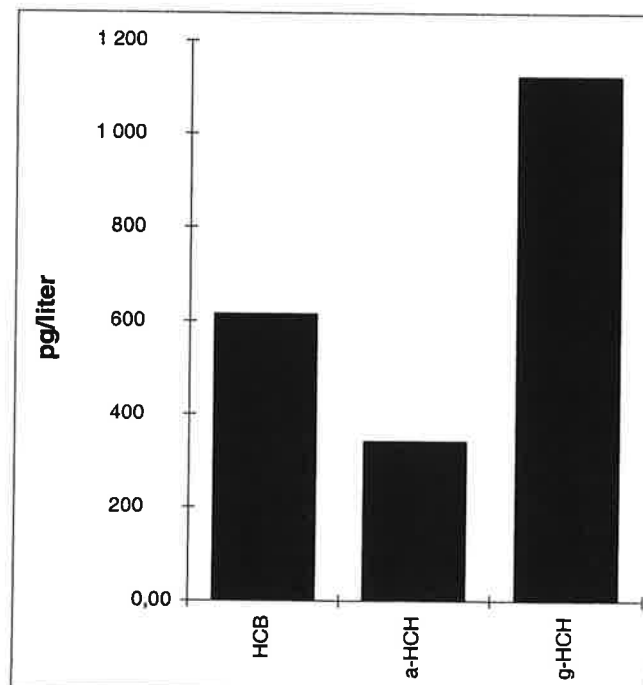
Kundenes prøvemerking: 23-30.6.03 0800-0820

Kjeller, 26.03.04

:
Prøvetype: Nedbør
Prøvemengde: 1,28 l
Måleenhet: pg/liter
Datafiler: PA_7769.D

Komponent	Konsentrasjon		Gjenvinning
	Struktur	pg/liter	%
HCB	613	b	41
α -HCH	341	b	53
γ -HCH	1 122		60

- <: Lavere enn påvisningsgrensen ved signal:støy 3:1
(i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
Dette skyldes mulig interferanse og/eller instrumentstøy.
- : Ikke analysert
(b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater



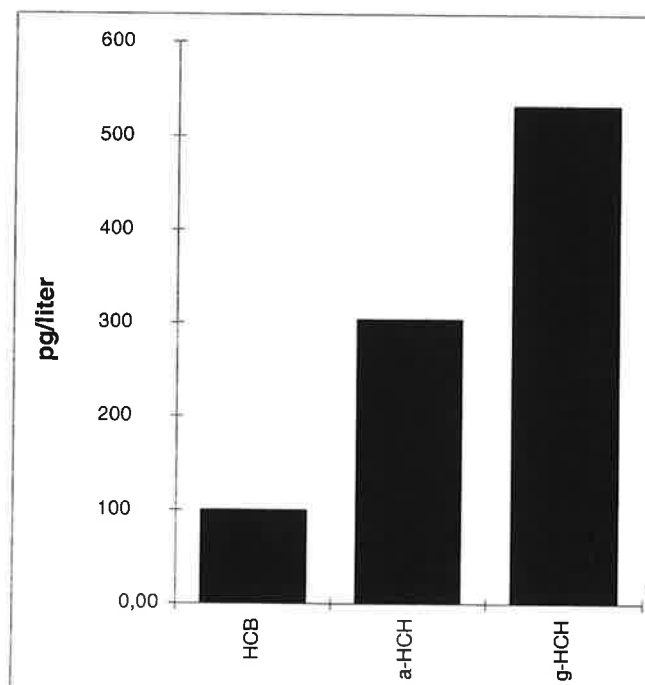
Vedlegg til målerapport nr: O-2501
 NILU-Prøvenummer: 03/1051
 Kunde: Camp. 03
 Kundernes prøvermerking: 30.6-7.7.03 0820-0930

Kjeller, 02.04.04

Prøvetype: Nedbør
 Prøvemengde: 0,82 l
 Måleenhet: pg/liter
 Datafiler: PA_7781.D

Komponent Struktur	Konsentrasjon	Gjenvinning
	pg/liter	%
HCB	99,3 i,b	38
α -HCH	303 b	58
γ -HCH	531 b	74

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
 (i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
 Dette skyldes mulig interferanse og/eller instrumentstøy.
 - : Ikke analysert
 (b): Mindre enn 10 ganger blindverdi.



HCH/HCB-Analyseresultater

97

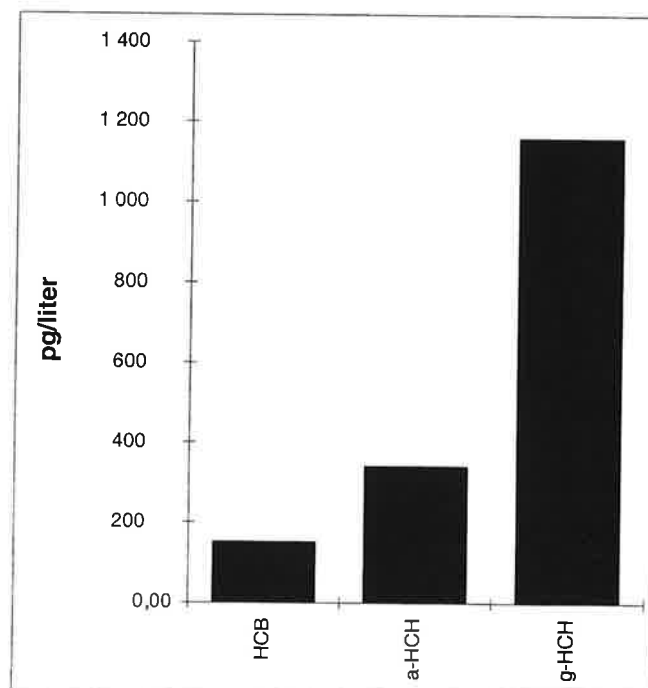


Vedlegg til målerapport nr: O-2501
NILU-Prøvenummer: 03/1053
Kunde: Camp. 03
Kundenes prøvermerking: 14-21.7.03 0930-0815
:
Prøvetype: Nedbør
Prøvemengde: 1,0 l
Måleenhet: pg/liter
Datafiler: PA_77782.D

Kjeller, 02.04.04

Komponent Struktur	Konsentrasjon		Gjenvinning
	pg/liter		%
HCB	150	b	37
α -HCH	338	b	51
γ -HCH	1 158		62

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
(i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
Dette skyldes mulig interferanse og/eller instrumentstøy.
- : Ikke analysert
(b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater



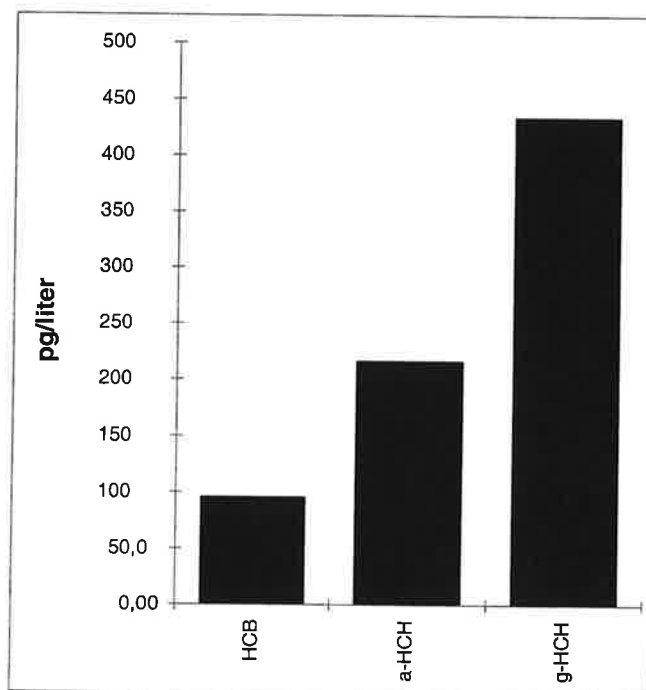
Vedlegg til målerapport nr: O-2501
 NILU-Prøvenummer: 03/1233
 Kunde: Camp. 03
 Kundernes prøvemerking: 21-28.7.03 0815-1300

Kjeller, 02.04.04

Prøvetype: Nedbør
 Prøvemengde: 1,0 l
 Måleenhet: pg/liter
 Datafiler: PA_7783.D

Komponent Struktur	Konsentrasjon		Gjenvinning
	pg/liter		%
HCB	95,1	b	46
α -HCH	216	b	61
γ -HCH	434	b	74

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
 (i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
 Dette skyldes mulig interferanse og/eller instrumentstøy.
 - : Ikke analysert
 (b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater

99



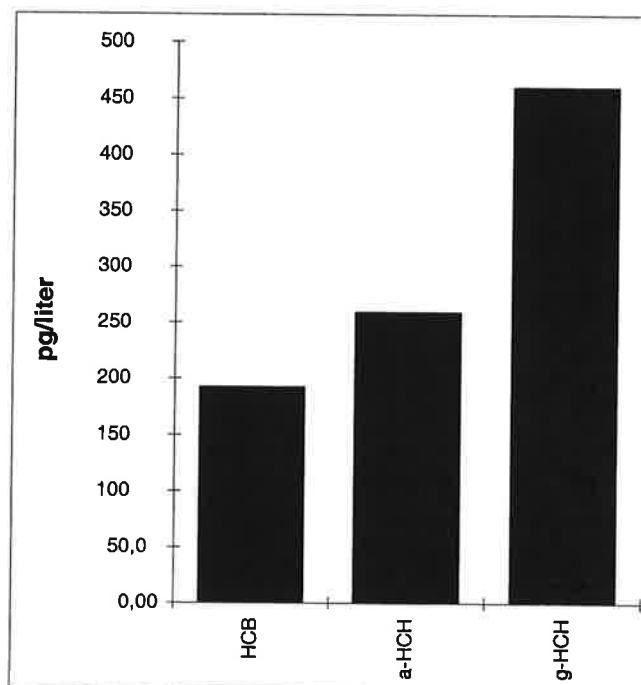
Vedlegg til målerapport nr: O-2501
NILU-Prøvenummer: 03/1234
Kunde: Camp. 03
Kundenes prøvemerking: 28.7-8-8-03 1300-1045

Kjeller, 29.04.2004

Prøvetype: Nedbør
Prøvemengde: 0,97 l
Måleenhet: pg/liter
Datafiler: PA_7784.D

Komponent	Konsentrasjon		Gjenvinning
	Struktur	pg/liter	%
HCB	192	b	40
α -HCH	259	b	55
γ -HCH	460	b	67

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
(i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
Dette skyldes mulig interferanse og/eller instrumentstøy.
- : Ikke analysert
(b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater



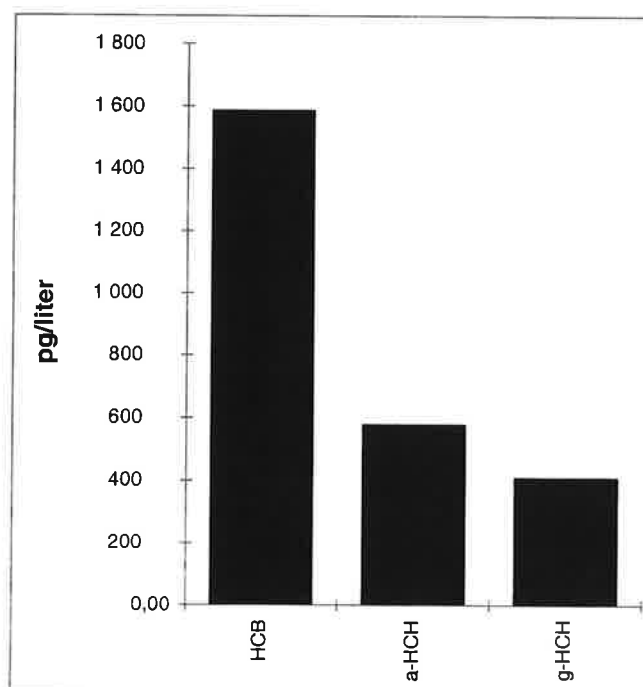
Vedlegg til målerapport nr: O-2501
 NILU-Prøvenummer: 03/1235
 Kunde: Camp. 03
 Kundernes prøvemerking: 8-25.8.03 1045-1730

Kjeller, 02.04.04

Prøvetype: Nedbør
 Prøvemengde: 0,96 l
 Måleenhet: pg/liter
 Datafiler: PA_7785.D

Komponent Struktur	Konsentrasjon		Gjenvinning
	pg/liter		%
HCB	1 584	b	40
α -HCH	576	b	58
γ -HCH	408	b	72

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
 (i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
 Dette skyldes mulig interferanse og/eller instrumentstøy.
 - : Ikke analysert
 (b): Mindre enn 10 ganger blindverdi.



HCH/HCB-Analyseresultater

101



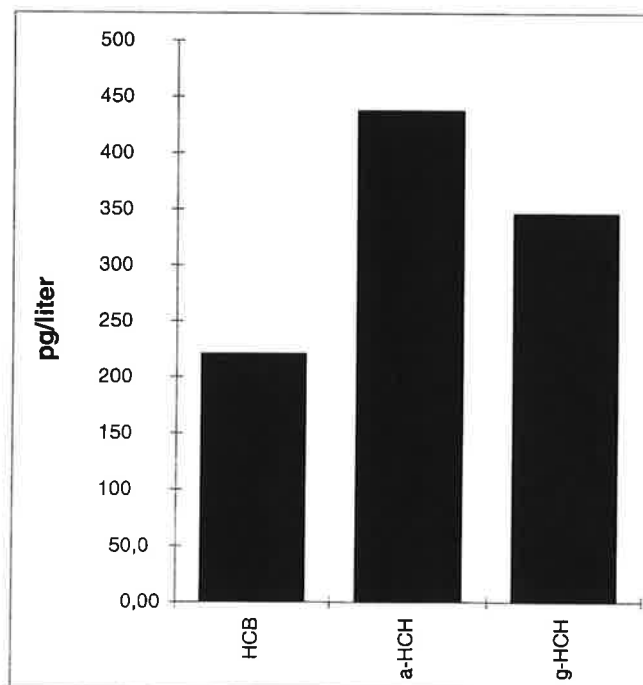
Vedlegg til målerapport nr: O-2501
NILU-Prøvenummer: 03/1236
Kunde: Camp. 03
Kundenes prøvermerking: 25.8-1.9.03 1730-0815

Kjeller, 02.04.04

Prøvetype: Nedbør
Prøvemengde: 0,68 l
Måleenhet: pg/liter
Datafiler: PA_7788.D

Komponent	Konsentrasjon	Gjenvinning
Struktur	pg/liter	%
HCB	220 i,b	45
α -HCH	437 b	70
γ -HCH	346 b	80

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
(i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
Dette skyldes mulig interferanse og/eller instrumentstøy.
- : Ikke analysert
(b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater



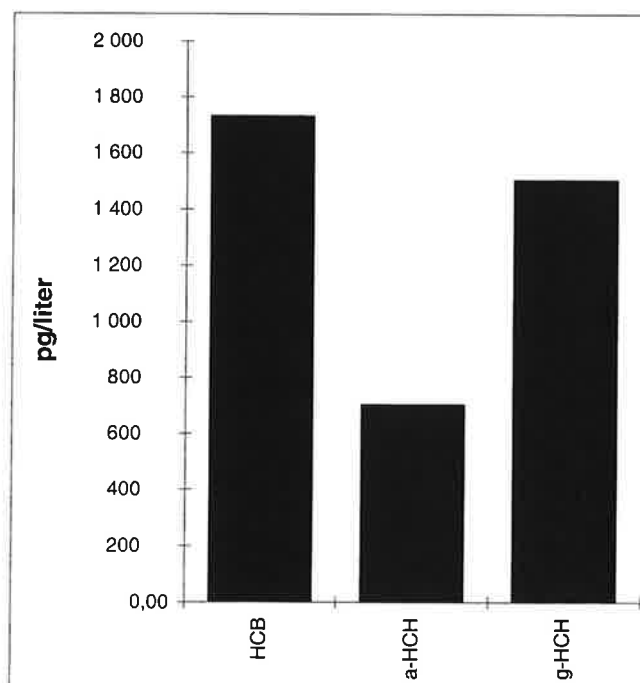
Vedlegg til målerapport nr: O-2501
 NILU-Prøvenummer: 03/1385
 Kunde: Camp. 03
 Kundernes prøvermerking: 1-8.9.03 0815-1000

Kjeller, 02.04.04

Prøvetype: Nedbør
 Prøvemengde: 1,02 l
 Måleenhet: pg/liter
 Datafiler: PA_7789.D

Komponent Struktur	Konsentrasjon		Gjenvinning
	pg/liter		%
HCB	1 730	b	43
α -HCH	701	b	63
γ -HCH	1 502		76

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
 (i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
 Dette skyldes mulig interferanse og/eller instrumentstøy.
 - : Ikke analysert
 (b): Mindre enn 10 ganger blindverdi.



HCH/HCB-Analyseresultater

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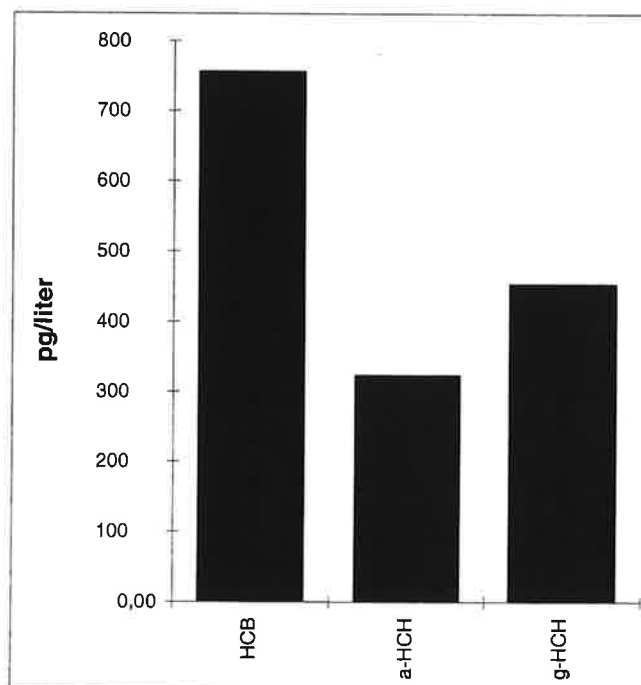
Vedlegg til målerapport nr: O-2501
NILU-Prøvenummer: 03/1386
Kunde: Camp. 03
Kundenes prøvemerking: 8-15.9.03 1000-1130

Kjeller, 02.04.04

Prøvetype: Nedbør
Prøvemengde: 1,03 l
Måleenhet: pg/liter
Datafiler: PA_7790.D

Komponent Struktur	Konsentrasjon		Gjenvinning
	pg/liter		%
HCB	755	b	38
α -HCH	323	b	55
γ -HCH	453	b	69

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
(i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
Dette skyldes mulig interferanse og/eller instrumentstøy.
- : Ikke analysert
(b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater

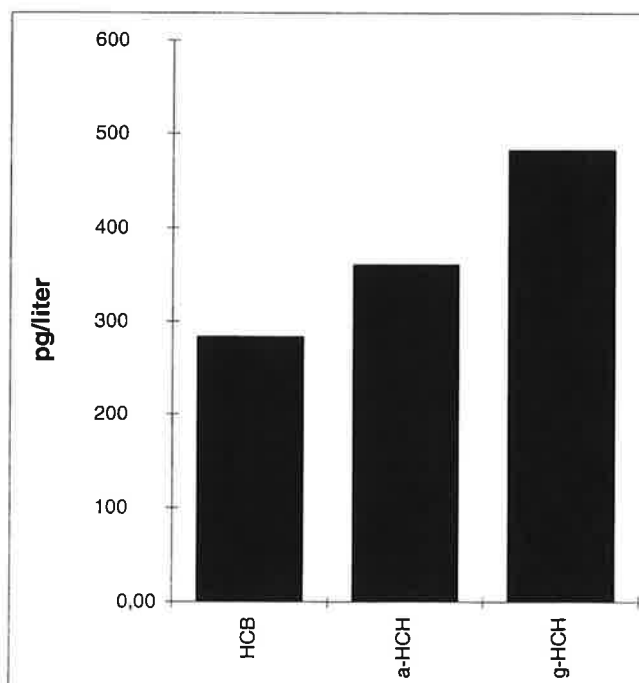


Vedlegg til målerapport nr: O-2501
 NILU-Prøvenummer: 03/1387
 Kunde: Camp. 03
 Kundernes prøvermerking: 15-22.9.03 1130-0500
 :
 Prøvetype: Nedbør
 Prøvemengde: 0,61 l
 Måleenhet: pg/liter
 Datafiler: PA_7791.D

Kjeller, 02.04.04

Komponent Struktur	Konsentrasjon		Gjenvinning
	pg/liter		%
HCB	283	b	40
α -HCH	360	b	55
γ -HCH	482	b	66

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
 (i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
 Dette skyldes mulig interferanse og/eller instrumentstøy.
 - : Ikke analysert
 (b): Mindre enn 10 ganger blindverdi.



HCH/PCB-Analyseresultater

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Vedlegg til målerapport nr: O-2501

NILU-Prøvenummer: 03/1388

Kunde: Camp. 03

Kundenes prøvemerkning: 22-29.9.03 0500-0900

Kjeller, 02.04.04

Prøvetype: Nedbør

Prøvemengde: 1,0 l

Måleenhet: pg/liter

Datafiler: PA_7792.D

Komponent	Konsentrasjon		Gjenvinning
	Struktur	pg/liter	%
HCB	161	b	41
α -HCH	342	b	58
γ -HCH	373	b	69

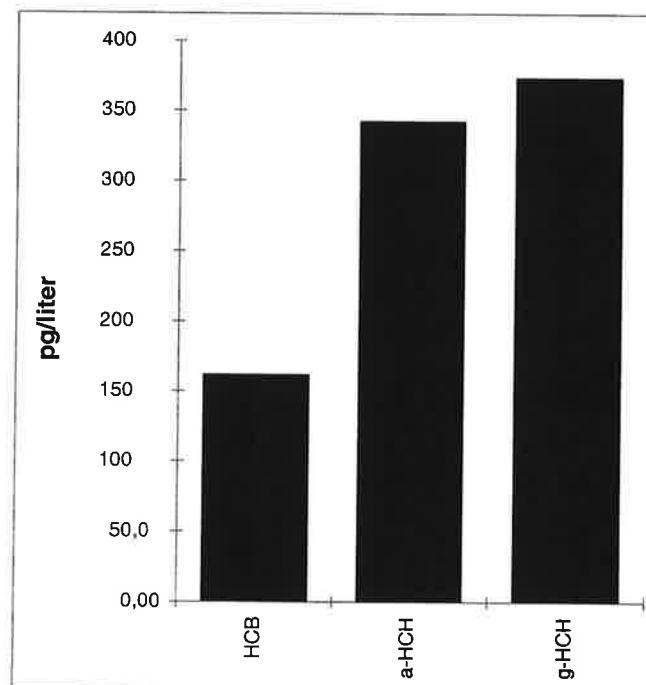
<: Lavere enn påvisningsgrensen ved signal:støy 3:1

(i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.

Dette skyldes mulig interferanse og/eller instrumentstøy.

- : Ikke analysert

(b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater



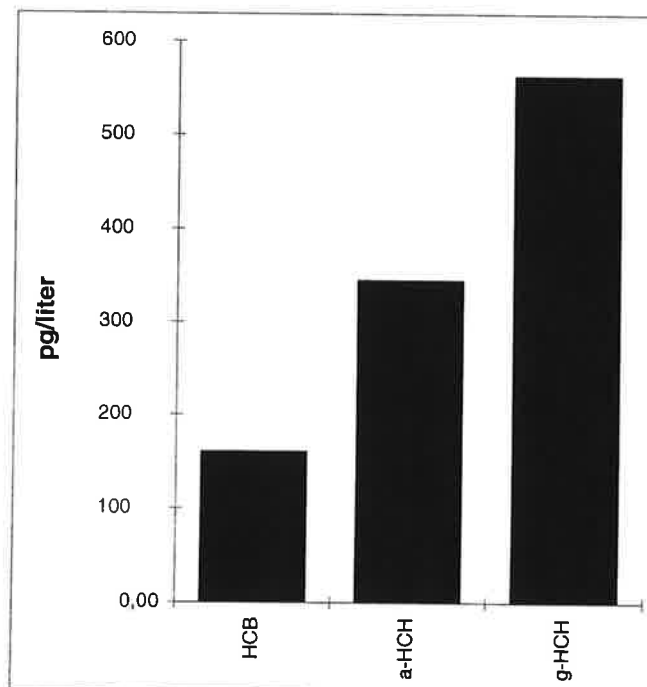
Vedlegg til målerapport nr: O-2501
 NILU-Prøvenummer: 03/1546 A
 Kunde: Camp. 03
 Kundernes prøvemerking: 29.9-1.10.03 0900-1100

Kjeller, 02.04.04

Prøvetype: Nedbør
 Prøvemengde: 0,98 l
 Måleenhet: pg/liter
 Datafiler: PA_7794.D

Komponent Struktur	Konsentrasjon		Gjenvinning
	pg/liter		%
HCB	160	b	42
α -HCH	344	b	62
γ -HCH	562	b	68

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
 (i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
 Dette skyldes mulig interferanse og/eller instrumentstøy.
 - : Ikke analysert
 (b): Mindre enn 10 ganger blindverdi.



HCH/HCB-Analyseresultater

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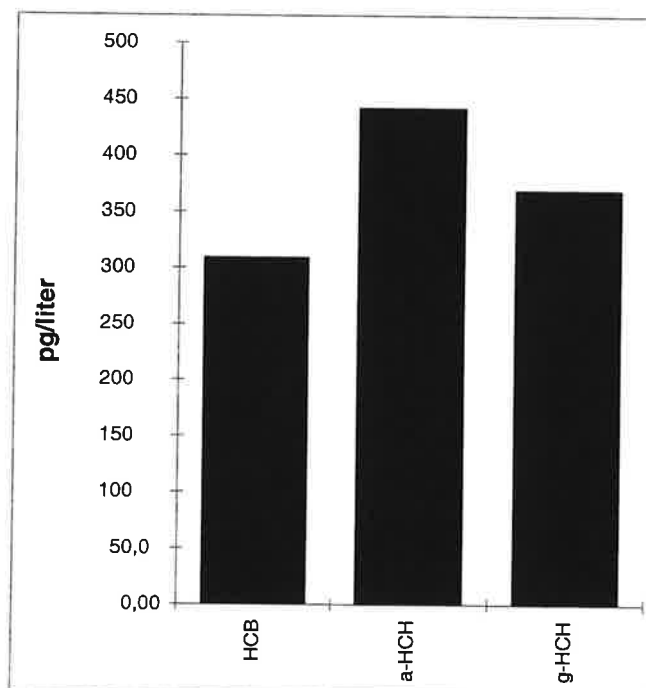
Vedlegg til målerapport nr: O-2501
NILU-Prøvenummer: 03/1546 B
Kunde: Camp. 03
Kundenes prøvemerking: 1-6.10.03 1100-1300

Kjeller, 02.04.04

Prøvetype: Nedbør
Prøvemengde: 1,03 l
Måleenhet: pg/liter
Datafiler: PA_7795.D

Komponent	Konsentrasjon		Gjenvinning
	Struktur	pg/liter	%
HCB	308	b	40
α -HCH	441	b	57
γ -HCH	369	b	65

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
(i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
Dette skyldes mulig interferanse og/eller instrumentstøy.
- : Ikke analysert
(b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater



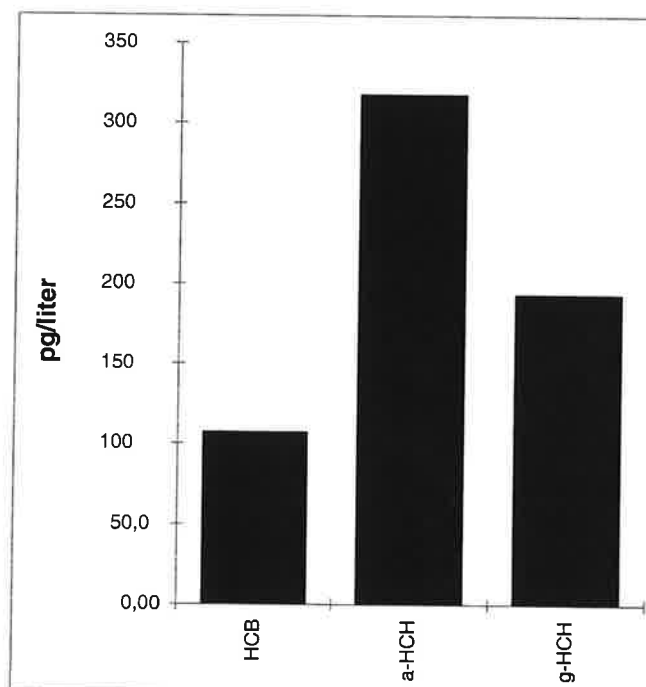
Vedlegg til målerapport nr: O-2501
 NILU-Prøvenummer: 03/1547
 Kunde: Camp. 03
 Kundernes prøvemerking: 6-13.10.03 1300-0600

Kjeller, 02.04.04

Prøvetype: Nedbør
 Prøvemengde: 1,05 l
 Måleenhet: pg/liter
 Datafiler: PA_7796.D

Komponent	Konsentrasjon	Gjenvinning
Struktur	pg/liter	%
HCB	107 i,b	39
α -HCH	317 b	56
γ -HCH	193 b	66

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
 (i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
 Dette skyldes mulig interferanse og/eller instrumentstøy.
 - : Ikke analysert
 (b): Mindre enn 10 ganger blindverdi.



HCH/HCB-Analyseresultater

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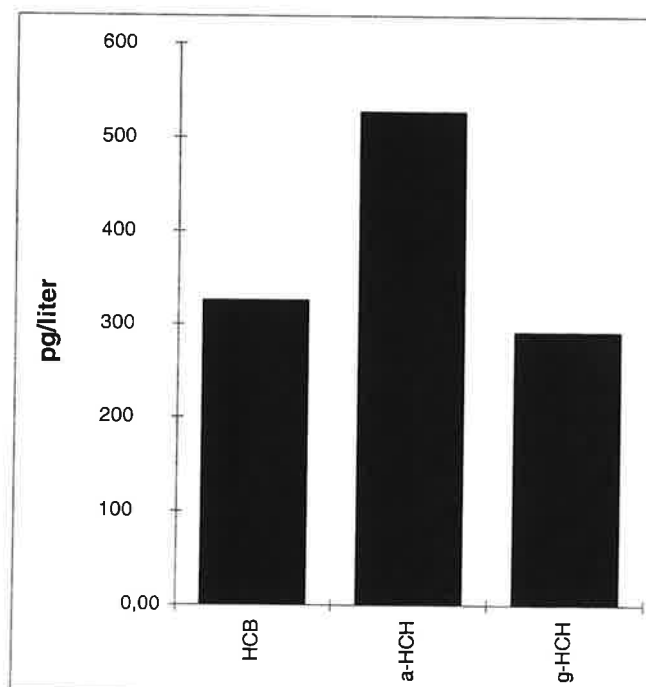
Vedlegg til målerapport nr: O-2501
NILU-Prøvenummer: 03/1548 + 03/1709
Kunde: Camp. 03
Kundenes prøvemerking: 13-27.10.03 0600-1200

Kjeller, 02.04.04

Prøvetype: Nedbør
Prøvemengde: 0,77 l
Måleenhet: pg/liter
Datafiler: PA_7797.D

Komponent	Konsentrasjon	Gjenvinning
Struktur	pg/liter	%
HCB	325 b	40
α -HCH	526 b	54
γ -HCH	291 b	65

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
(i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
Dette skyldes mulig interferanse og/eller instrumentstøy.
- : Ikke analysert
(b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater



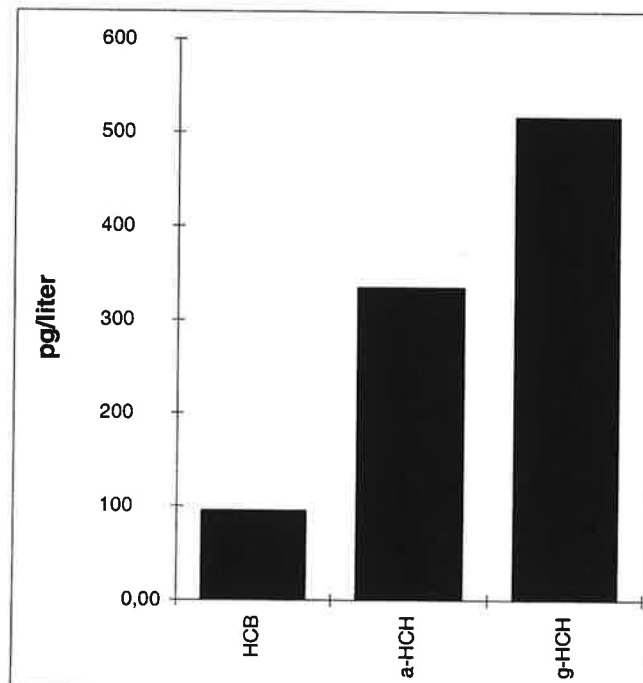
Vedlegg til målerapport nr: O-2501
 NILU-Prøvenummer: 03/1710 A
 Kunde: Camp. 03
 Kundens prøvemerking: 27.10-1.11.03 1200-1300

Kjeller, 22.04.04

Prøvetype: Nedbør
 Prøvemengde: 0,9 l
 Måleenhet: pg/liter
 Datafiler: PA_7853.D

Komponent	Konsentrasjon	Gjenvinning
Struktur	pg/liter	%
HCB	94,6 b	46
α -HCH	334 b	60
γ -HCH	516 b	62

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
 (i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
 Dette skyldes mulig interferanse og/eller instrumentstøy.
 -: Ikke analysert
 (b): Mindre enn 10 ganger blindverdi.



HCH/HCB-Analyseresultater

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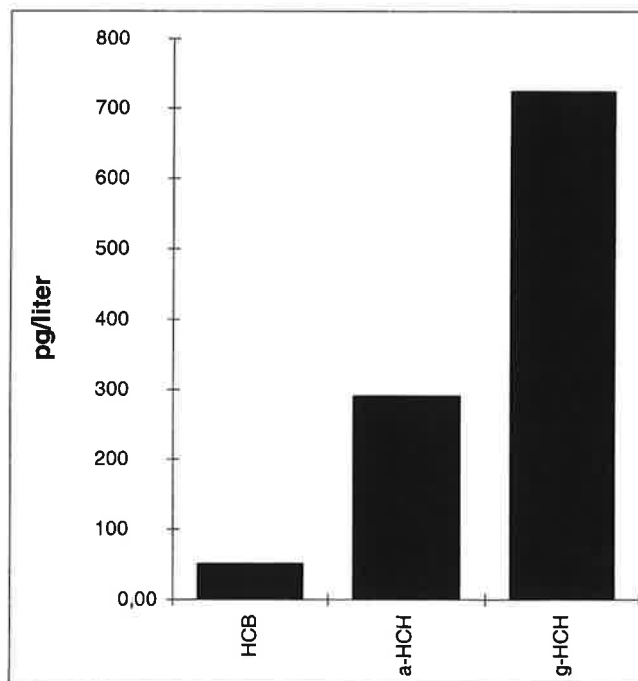
Vedlegg til målerapport nr: O-2501
NILU-Prøvenummer: 03/1710 B
Kunde: Camp. 03
Kundenes prøvermerking: 1-3.11.03 1300-1145

Kjeller, 22.04.04

Prøvetype: Nedbør
Prøvemengde: 1,01 l
Måleenhet: pg/liter
Datafiler: PA_7854.D

Komponent	Konsentrasjon	Gjenvinning
	Struktur	pg/liter
HCB	50,1 b	58
α -HCH	290 b	66
γ -HCH	723	64

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
(i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
Dette skyldes mulig interferanse og/eller instrumentstøy.
- : Ikke analysert
(b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater



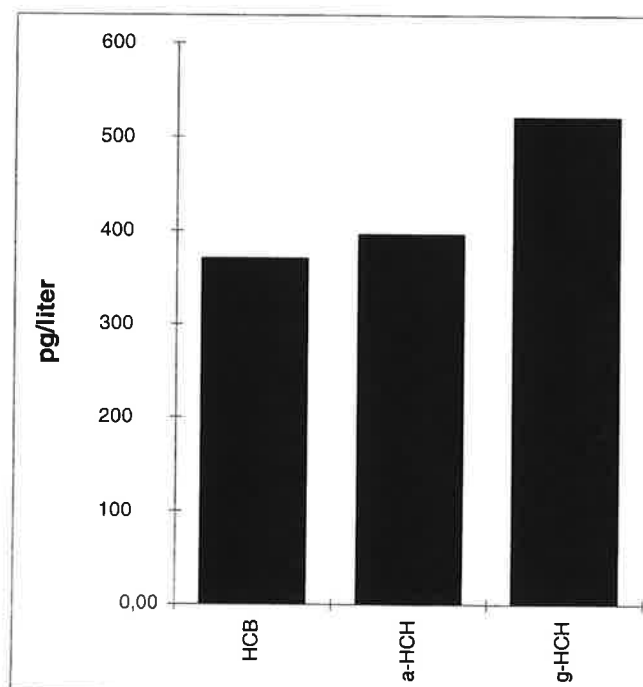
Vedlegg til målerapport nr: O-2501
 NILU-Prøvenummer: 03/1711
 Kunde: Camp. 03
 Kundernes prøvemerking: 3-10.11.03 1145-1140

Kjeller, 02.04.04

Prøvetype: Nedbør
 Prøvemengde: 0,62 l
 Måleenhet: pg/liter
 Datafiler: PA_7801.D

Komponent Struktur	Konsentrasjon		Gjenvinning
	pg/liter		%
HCB	370	b	45
α -HCH	395	b	67
γ -HCH	520	b	72

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
 (i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
 Dette skyldes mulig interferanse og/eller instrumentstøy.
 - : Ikke analysert
 (b): Mindre enn 10 ganger blindverdi.



HCH/HCB-Analyseresultater

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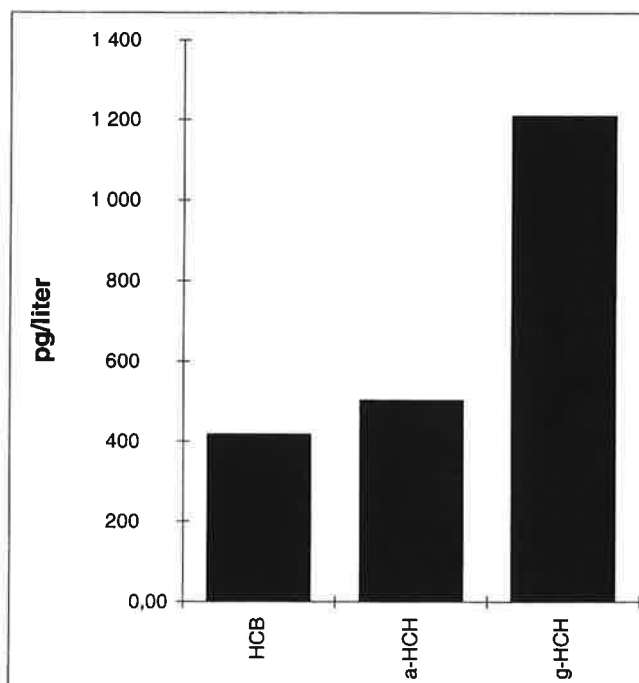


Vedlegg til målerapport nr: O-2501
NILU-Prøvenummer: 03/1929
Kunde: Camp. 03
Kundenes prøvemerking: 10-17.11.03 1145-1100
:
Prøvetype: Nedbør
Prøvemengde: 1,05 l
Måleenhet: pg/liter
Datafiler: PA_7856.D

Kjeller, 22.04.04

Komponent Struktur	Konsentrasjon		Gjenvinning
	pg/liter		%
HCB	416	b	45
α -HCH	501	b	55
γ -HCH	1 208		57

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
(i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
Dette skyldes mulig interferanse og/eller instrumentstøy.
- : Ikke analysert
(b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater



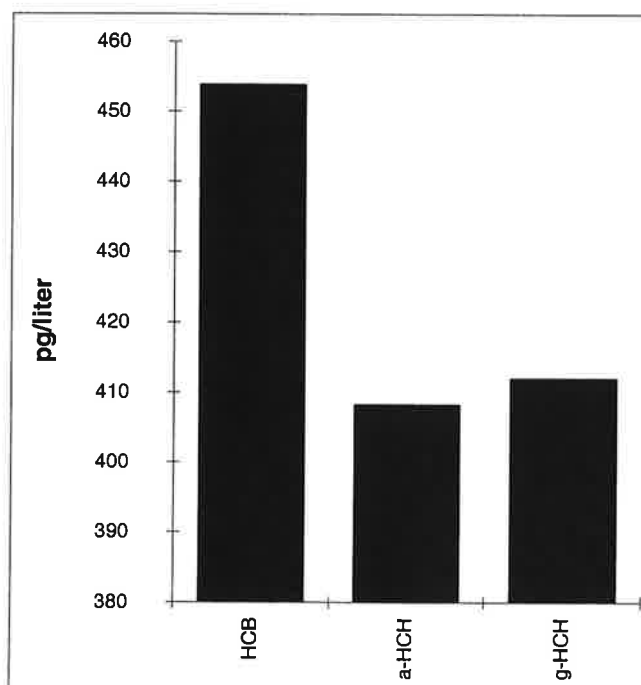
Vedlegg til målerapport nr: O-2501
 NILU-Prøvenummer: 03/1930
 Kunde: Camp. 03
 Kundernes prøvemerking: 17-23.11.03 1110-2100

Kjeller, 22.04.04

Prøvetype: Nedbør
 Prøvemengde: 1,04 l
 Måleenhet: pg/liter
 Datafiler: PA_7857.D

Komponent Struktur	Konsentrasjon		Gjenvinning
	pg/liter		%
HCB	454	b	46
α -HCH	408	b	54
γ -HCH	412	b	55

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
 (i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
 Dette skyldes mulig interferanse og/eller instrumentstøy.
 - : Ikke analysert
 (b): Mindre enn 10 ganger blindverdi.



HCH/HCB-Analyseresultater

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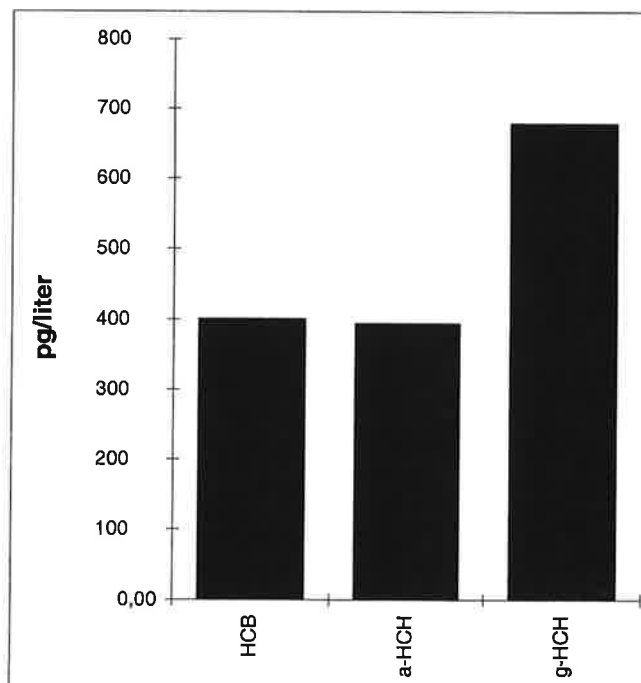
Vedlegg til målerapport nr: O-2501
NILU-Prøvenummer: 03/1931
Kunde: Camp. 03
Kundenes prøvermerking: 23-30.11.03 2100-2100

Kjeller, 22.04.04

Prøvetype: Nedbør
Prøvemengde: 1,02 l
Måleenhet: pg/liter
Datafiler: PA_7859.D

Komponent	Konsentrasjon		Gjenvinning
	Struktur	pg/liter	%
HCB	399	b	42
α -HCH	393	b	56
γ -HCH	678		60

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
(i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
Dette skyldes mulig interferanse og/eller instrumentstøy.
- : Ikke analysert
(b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater



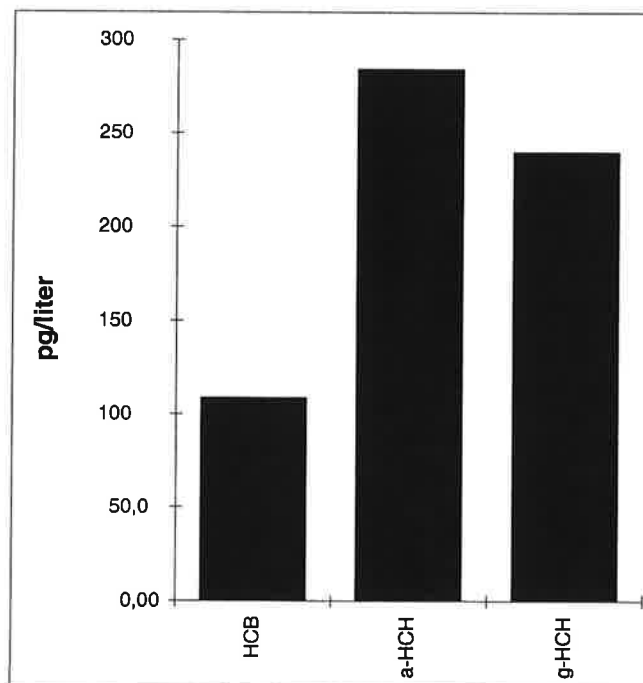
Vedlegg til målerapport nr: O-2501
 NILU-Prøvenummer: 03/1932
 Kunde: Camp. 03
 Kundernes prøvemerking: 30.11-8.12.03 2100-1115

Kjeller, 22.04.04

Prøvetype: Nedbør
 Prøvemengde: 1,05 l
 Måleenhet: pg/liter
 Datafiler: PA_7860.D

Komponent	Konsentrasjon		Gjenvinning
	Struktur	pg/liter	%
HCB	108	b	37
α -HCH	284	b	46
γ -HCH	239	b	48

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
 (i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
 Dette skyldes mulig interferanse og/eller instrumentstøy.
 - : Ikke analysert
 (b): Mindre enn 10 ganger blindverdi.



HCH/HCB-Analyseresultater

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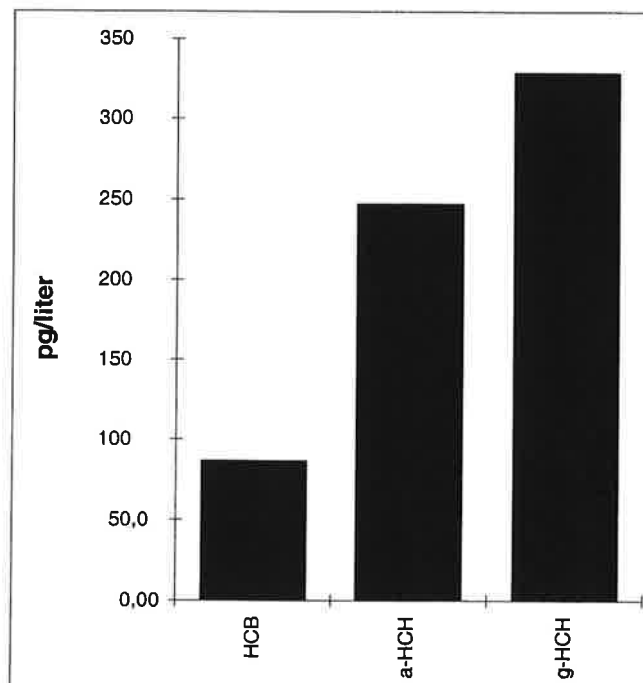
Vedlegg til målerapport nr: O-2501
NILU-Prøvenummer: 04/24
Kunde: Camp. 03
Kundenes prøvemerking: 8-15.12.03 1115-1615

Kjeller, 22.04.04

Prøvetype: Nedbør
Prøvemengde: 1,06 l
Måleenhet: pg/liter
Datafiler: PA_7861.D

Komponent Struktur	Konsentrasjon		Gjenvinning
	pg/liter		%
HCB	86,0	b	48
α -HCH	247	b	60
γ -HCH	329	b	62

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
(i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
Dette skyldes mulig interferanse og/eller instrumentstøy.
- : Ikke analysert
(b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

HCH/HCB-Analyseresultater



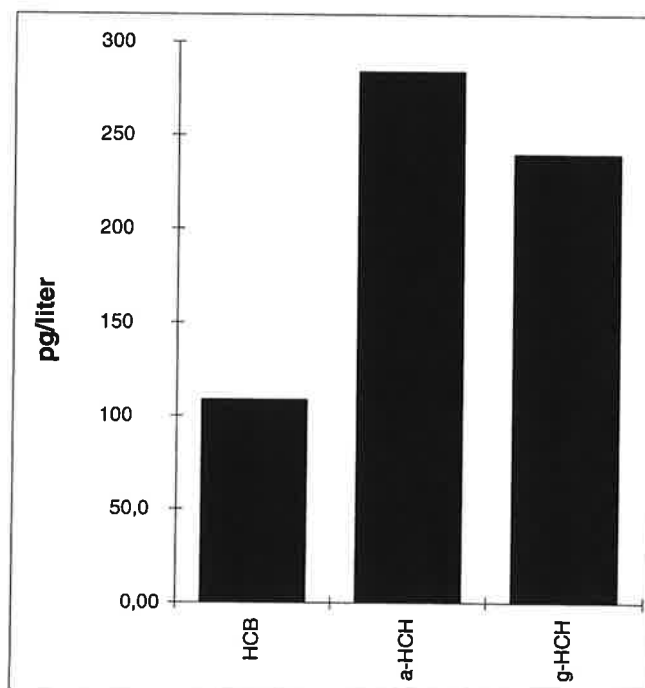
Vedlegg til målerapport nr: O-2501
 NILU-Prøvenummer: 04/25
 Kunde: Camp. 03
 Kundernes prøvemerking: 15-22.12.03 1630-1130

Kjeller, 22.04.04

Prøvetype: Nedbør
 Prøvemengde: 1,07 l
 Måleenhet: pg/liter
 Datafiler: PA_7862.D

Komponent	Konsentrasjon	Gjenvinning
Struktur	pg/liter	%
HCB	108 b	37
α -HCH	284 b	46
γ -HCH	239 b	48

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
 (i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
 Dette skyldes mulig interferanse og/eller instrumentstøy.
 - : Ikke analysert
 (b): Mindre enn 10 ganger blindverdi.



HCH/HCB-Analyseresultater

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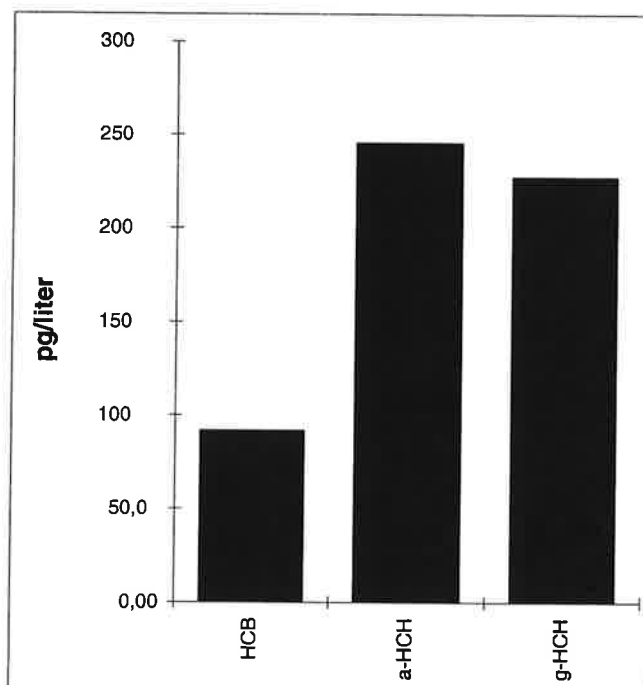
Vedlegg til målerapport nr: O-2501
NILU-Prøvenummer: 04/26 + 04/27
Kunde: Camp. 03
Kundenes prøvemerking: 22.12.03-1.1.04 1130-1200

Kjeller, 22.04.04

Prøvetype: Nedbør
Prøvemengde: 1,25 l
Måleenhet: pg/liter
Datafiler: PA_7863.D

Komponent	Konsentrasjon		Gjenvinning
	Struktur	pg/liter	%
HCB	91,4	b	47
α -HCH	245	b	56
γ -HCH	227	b	57

<: Lavere enn påvisningsgrensen ved signal:støy 3:1
(i): Isotopforhold avviker mer enn 20% fra teoretisk verdi.
Dette skyldes mulig interferanse og/eller instrumentstøy.
- : Ikke analysert
(b): Mindre enn 10 ganger blindverdi.



1. Versjon 08.05.01 GSK

Vedlegg 4

Tungmetaller i luft på Lista (U-791-04 og U-842-04)

Målerapport nr. U-791-04

Oppdragsgiver:	Jozef M. Pacyna NILU Her
Prosjekt nr.:	O-90006
Prøvetaking:	
Sted:	Lista
Ansvar: NILU	
Kommentar:	Prøver for perioden 01.01.2003-30.06.2003
Prøveinformasjon:	
Prøvetype:	Tungmetaller, luftprøver (fp-tofi)
Prøven mottatt:	
Kommentar:	Resultatene er korrigerede med filterblank, Zefluor-filter for finfraksjon, Nukleopore filter for grovfraksjon. Deteksjonsgrensen er basert på 1 standardavvik av filterblank for elementene Pb, Cd, Cu, Zn, Ni, Co, V og As. Deteksjonsgrensen for Cr er basert på 3 standardavvik for grovfraksjon, da filterblank for Cr er relativt høy.
Analyser:	
Utført av	Norsk institutt for luftforskning Postboks 100 N-2027 KJELLER
Målemetode:	NILU-U-47: Forskrift for måling av masse svevestøv, hovedkomponenter og tungmetaller i svevestøv i luft med sierra dichotomous eller Nilus to-filterprøvetaker. Analysemetoden NILU-U-47 er akkreditert av Norsk Akkreditering i henhold til ISO/IEC-17025.
Måleusikkerhet:	Måleusikkerheten for ICPMS varierer noe fra element til element. Generelt ligger måleusikkerheten innenfor $\pm 10\%$ ved 10 ng/ml (ppb). Måle_usikkerheten omfatter bare det

som kan tilskrives prøvebehandling og kjemiske analyser på laboratoriet. Ved vurdering av total usikkerhet må det tas hensyn til bidraget fra prøvetaking samt prøvens representativitet.

I de tilfellene der NILU ikke har hatt ansvar for prøvetakingen, kan vi ikke tallfeste dette bidraget til usikkerheten. For luftprøver beregnes måleresultatet i rapporten på basis av luftvolum. I slike tilfeller vil dektek-sjonsgrensen som rapporteres kunne variere fra prøve til prøve, dersom luftvolumet varierer.

Kommentar:

Kontaktperson:

Marit Vadset

Godkjenning:

Kjeller, 6. januar 2004



Marit Vadset
Ingeniør, Kjemisk analyse

Vedlegg:

Analyseresultater for prøver: 1 side
Målerapporten og vedleggene omfatter totalt 3 sider

Måleresultatene gjelder bare de prøvene som er analysert. Denne rapporten skal ikke gjengis i utdrag, uten skriftlig godkjenning fra laboratoriet.

Analyseresultatene for ICPMS følger som et eget vedlegg med overskrift "NILU ICPMS RAPPORT".

Oppdragsgivers prøveidentifikasjon er angitt i målerapporten for hver enkelt prøve. Analyseresultatene i rapportvedlegget er gitt med varierende antall gjeldende siffer. Siden det vanligvis er vanskelig å spesifisere total måleusikkerhet bedre enn 10%, anbefales det å ikke benytte mer enn 3 gjeldende siffer ved vurdering eller i presentasjon av resultatene.

Et minus "-" foran måleresultatet, betyr at det er mindre enn deteksjonsgrensen for analysemetoden. Er måleresultatet oppgitt som f.eks. "-0.01", betyr det at deteksjonsgrensen for metoden er 0.01.

Prøveidentifikasjon	Prøve dato	Nilu id.	Prøve-type	Filt del	Luft vol	Uv.vol	EMMET	Pb	Cd	Cu	Zn	Cr	Ni	Co	Fe	Mn	V	As
Lista	03/01/06	03/01/13	0-90006	fp-tofi	f	66.3	10.	ng/m ³	1.70	0.065	0.13	5.12	0.11	0.13	0.006		0.41	0.353
Lista	03/01/06	03/01/13	0-90006	fp-tofi	g	66.3	10.	ng/m ³	0.26	0.011	0.18	1.09	-0.31	0.05	0.017		0.56	0.063
Lista	03/01/13	03/01/20	0-90006	fp-tofi	f	60.6	10.	ng/m ³	0.58	0.006	0.05	0.78	-0.11	-0.12	-0.002		0.84	0.130
Lista	03/01/13	03/01/20	0-90006	fp-tofi	f	60.6	10.	ng/m ³	1.79	0.007	0.18	0.70	-0.34	0.12	0.004		1.38	0.091
Lista	03/01/20	03/01/27	0-90006	fp-tofi	f	62.5	10.	ng/m ³	2.56	0.061	0.44	3.84	-0.10	0.71	0.022		1.65	0.257
Lista	03/01/20	03/01/27	0-90006	fp-tofi	g	62.5	10.	ng/m ³	0.78	0.011	0.53	2.44	-0.33	0.14	0.017		1.14	0.050
Lista	03/01/27	03/02/03	0-90006	fp-tofi	f	64.3	10.	ng/m ³	0.78	0.034	0.15	9.72	-0.10	-0.11	-0.002		0.56	0.201
Lista	03/01/27	03/02/03	0-90006	fp-tofi	g	64.3	10.	ng/m ³	0.11	0.004	0.14	0.78	-0.32	0.03	0.014		0.72	0.054
Lista	03/02/03	03/02/10	0-90006	fp-tofi	f	63.	10.	ng/m ³	2.58	0.067	0.27	3.59	-0.10	0.36	0.006		1.31	0.450
Lista	03/02/03	03/02/10	0-90006	fp-tofi	g	63.	10.	ng/m ³	0.89	0.009	0.45	2.04	-0.33	0.21	0.011		0.78	0.193
Lista	03/02/10	03/02/17	0-90006	fp-tofi	f	66.9	10.	ng/m ³	8.34	0.228	1.02	12.45	0.10	0.55	0.016		1.57	1.817
Lista	03/02/10	03/02/17	0-90006	fp-tofi	g	66.9	10.	ng/m ³	0.57	0.010	0.49	1.98	-0.31	0.10	0.019		0.34	0.428
Lista	03/02/17	03/02/24	0-90006	fp-tofi	f	69.7	10.	ng/m ³	4.50	0.194	0.55	15.14	0.10	0.66	0.025		1.73	0.964
Lista	03/02/17	03/02/24	0-90006	fp-tofi	g	69.7	10.	ng/m ³	0.72	0.011	0.43	2.42	-0.30	0.15	0.040		0.36	0.107
Lista	03/03/03	03/03/10	0-90006	fp-tofi	f	66.3	10.	ng/m ³	8.09	0.227	0.84	14.48	0.15	0.89	0.026		2.58	1.446
Lista	03/03/03	03/03/10	0-90006	fp-tofi	g	66.3	10.	ng/m ³	0.41	0.011	0.32	1.96	-0.31	0.12	0.011		0.32	0.150
Lista	03/03/10	03/03/17	0-90006	fp-tofi	f	27.3	10.	ng/m ³	3.94	0.103	0.45	13.60	-0.24	1.88	0.015		4.99	0.560
Lista	03/03/10	03/03/17	0-90006	fp-tofi	g	27.3	10.	ng/m ³	0.40	-0.002	0.47	3.10	-0.76	0.34	0.025		0.71	0.093
Lista	03/03/17	03/03/24	0-90006	fp-tofi	f	66.5	10.	ng/m ³	3.31	0.066	0.74	9.29	0.28	0.94	0.020		2.17	0.319
Lista	03/03/17	03/03/24	0-90006	fp-tofi	g	66.5	10.	ng/m ³	0.62	0.007	0.71	3.48	0.36	0.34	0.033		0.81	0.204
Lista	03/03/24	03/03/31	0-90006	fp-tofi	f	61.3	10.	ng/m ³	3.17	0.085	0.46	5.95	0.17	0.90	0.011		2.38	0.373
Lista	03/03/24	03/03/31	0-90006	fp-tofi	g	61.3	10.	ng/m ³	0.96	0.013	0.32	2.58	-0.34	0.24	0.013		0.73	0.178
Lista	03/03/31	03/04/07	0-90006	fp-tofi	f	66.1	10.	ng/m ³	0.65	0.012	0.22	1.67	0.17	0.26	-0.002		0.94	0.089
Lista	03/03/31	03/04/07	0-90006	fp-tofi	g	66.1	10.	ng/m ³	0.54	0.008	0.38	0.88	0.36	0.13	0.008		1.31	0.186
Lista	03/04/07	03/04/14	0-90006	fp-tofi	f	67.8	10.	ng/m ³	1.42	0.048	0.37	4.86	0.26	0.27	0.003		0.82	0.293
Lista	03/04/07	03/04/14	0-90006	fp-tofi	g	67.8	10.	ng/m ³	0.22	-0.001	0.23	1.32	0.32	1.03	0.020		0.32	0.077
Lista	03/04/14	03/04/21	0-90006	fp-tofi	f	68.5	10.	ng/m ³	4.09	0.158	0.94	10.41	0.68	1.03	0.031		2.28	0.497
Lista	03/04/14	03/04/21	0-90006	fp-tofi	g	68.5	10.	ng/m ³	1.60	0.046	1.02	4.44	0.70	0.41	0.099		0.75	0.171
Lista	03/04/28	03/05/05	0-90006	fp-tofi	f	66.5	10.	ng/m ³	2.37	0.100	0.88	7.36	0.12	0.99	0.013		2.77	0.674
Lista	03/04/28	03/05/05	0-90006	fp-tofi	g	66.5	10.	ng/m ³	0.42	0.005	0.32	1.67	0.69	0.14	0.008		0.94	0.175
Lista	03/05/05	03/05/12	0-90006	fp-tofi	f	66.8	10.	ng/m ³	1.74	0.042	0.41	2.91	0.50	1.02	0.013		2.99	0.268
Lista	03/05/05	03/05/12	0-90006	fp-tofi	g	66.8	10.	ng/m ³	0.31	0.002	0.36	1.84	-0.31	0.20	0.007		1.37	0.202
Lista	03/05/12	03/05/19	0-90006	fp-tofi	f	67.1	10.	ng/m ³	0.75	0.013	0.34	1.98	0.30	0.59	0.006		1.56	0.102
Lista	03/05/12	03/05/19	0-90006	fp-tofi	g	67.1	10.	ng/m ³	0.19	0.006	0.32	1.23	0.53	0.19	0.015		0.73	0.079
Lista	03/05/19	03/05/26	0-90006	fp-tofi	f	65.6	10.	ng/m ³	2.24	0.079	0.55	10.24	0.38	1.49	0.015		4.37	0.231
Lista	03/05/19	03/05/26	0-90006	fp-tofi	g	65.6	10.	ng/m ³	0.31	0.006	0.38	1.58	0.55	0.19	0.009		0.63	0.062
Lista	03/05/26	03/06/02	0-90006	fp-tofi	f	68.3	10.	ng/m ³	1.71	0.132	0.30	2.33	0.40	1.08	0.018		3.17	0.208
Lista	03/05/26	03/06/02	0-90006	fp-tofi	g	68.3	10.	ng/m ³	0.35	0.013	0.36	1.01	-0.30	0.17	0.010		0.51	0.046
Lista	03/06/02	03/06/09	0-90006	fp-tofi	f	64.3	10.	ng/m ³	3.02	0.040	0.55	5.32	0.31	1.03	0.024		2.96	0.300
Lista	03/06/02	03/06/09	0-90006	fp-tofi	g	64.3	10.	ng/m ³	0.60	0.007	0.60	2.28	-0.32	0.22	0.022		0.52	0.074
Lista	03/06/09	03/06/16	0-90006	fp-tofi	f	68.1	10.	ng/m ³	0.66	0.005	0.12	1.41	-0.09	0.36	-0.001		1.09	0.087
Lista	03/06/09	03/06/16	0-90006	fp-tofi	g	68.1	10.	ng/m ³	0.15	-0.001	0.21	1.01	-0.31	0.08	0.011		0.41	0.069
Lista	03/06/16	03/06/23	0-90006	fp-tofi	f	68.	10.	ng/m ³	0.31	0.004	0.11	0.91	-0.09	0.30	-0.001		1.09	0.067
Lista	03/06/16	03/06/23	0-90006	fp-tofi	g	68.	10.	ng/m ³	0.12	0.003	0.43	1.72	0.63	0.14	0.007		0.77	0.092
Lista	03/06/23	03/06/30	0-90006	fp-tofi	f	127.3	10.	ng/m ³	0.36	0.005	0.08	0.94	0.07	0.23	0.001		0.74	0.081
Lista	03/06/23	03/06/30	0-90006	fp-tofi	g	127.3	10.	ng/m ³	0.10	0.002	0.22	0.65	0.22	0.10	0.013		0.25	0.032
Lista	03/06/30	03/07/07	0-90006	fp-tofi	f	8.8	10.	ng/m ³	8.68	0.246	3.07	68.94	1.27	15.47	0.190		16.76	2.512
Lista	03/06/30	03/07/07	0-90006	fp-tofi	g	8.8	10.	ng/m ³	1.34	-0.007	1.91	8.14	3.28	0.87	0.063		3.14	0.456

Målerapport nr. U-842-04

Oppdragsgiver:	Jozef M. Pacyna NILU Her
Prosjekt nr.:	O-90006
Prøvetaking:	
Sted:	Lista
Ansvar: NILU	
Kommentar:	Prøver for perioden 07.07.2003-05.01.2004
Prøveinformasjon:	
Prøvetype:	Tungmetaller, luftprøver (fp-tofi)
Prøven mottatt:	
Kommentar:	Resultatene er korrigerede med filterblank, Zefluor-filter for finfraksjon, Nukleopore filter for grovfraksjon. Deteksjonsgrensen er basert på 1 standardavvik av filterblank for elementene Pb, Cd, Cu, Zn, Ni, Co, V og As. Deteksjonsgrensen for Cr er basert på 3 standardavvik for grovfraksjon, da filterblank for Cr er relativt høy.
Analyser:	
Utført av	Norsk institutt for luftforskning Postboks 100 N-2027 KJELLER
Målemetode:	NILU-U-47: Forskrift for måling av masse svevestøv, hovedkomponenter og tungmetaller i svevestøv i luft med sierra dichotomous eller NILUs to-filterprøvetaker. Analysemetoden NILU-U-47 er akkreditert av Norsk Akkreditering i henhold til ISO/IEC-17025. NILU-U-116: Forskrift for bruk av mikrobølgeovn. Plasma Masse Spektrometer (ICP-MS).

Kommentar:**Kontaktperson:** Marit Vadset**Godkjenning:** Kjeller, 31. mars 2004Marit Vadset
Ingeniør, Kjemisk analyse**Vedlegg:** Analyseresultater for prøver: 2 sider
Målerapporten og vedleggene omfatter totalt 3 sider

Måleresultatene gjelder bare de prøvene som er analysert. Denne rapporten skal ikke gjengis i utdrag, uten skriftlig godkjenning fra laboratoriet.

Analyseresultatene for ICPMS følger som et eget vedlegg med overskrift "NILU ICPMS RAPPORT".

Oppdragsgivers prøveidentifikasjon er angitt i målerapporten for hver enkelt prøve. Analyseresultatene i rapportvedlegget er gitt med varierende antall gjeldende siffer. Med metodens beregnede usikkerhet som grunnlag, anbefales det å ikke benytte mer enn 3 gjeldende siffer ved vurdering eller i presentasjon av resultatene.

Usikkerheten i resultatene kan fås ved henvendelse til NILUs laboratorium

PRO_NR	stasnr	STASKOD	PROVETY	PROVETA	MÅLEPER	FRADATO	ILDATO	aprocenvn	UT_ENHE	UTV_VOL	LUFTVOL	Pb	Cd	Cu	Zn	Cr	Ni	Co	V	As
O-90006	Lista	206	fp-tofi	g	2	07.07.2003	14.07.2003	i2601ia[12]	ng/m3	10	67	*0.091542	*0.000970	*0.125704	*0.517728	*-1.027946	*0.081459	*0.006708	0.19	*0.021500
O-90006	Lista	206	fp-tofi	g	2	14.07.2003	21.07.2003	i2601ia[11]	ng/m3	10	70.8	0.43	*0.005720	0.47	*1.566918	*-0.972773	*0.137963	*0.021884	0.33	*0.044358
O-90006	Lista	206	fp-tofi	g	2	21.07.2003	28.07.2003	i2601ia[10]	ng/m3	10	67.6	*0.129931	*0.001701	*0.245742	*0.749227	*-1.018822	*0.089908	*0.006648	0.26	*0.027670
O-90006	Lista	206	fp-tofi	g	2	28.07.2003	08.08.2003	i2601ia[9]	ng/m3	10	102.7	0.45	*0.005014	0.44	*0.971156	*-0.670617	*0.147300	*0.020247	0.31	*0.03613
O-90006	Lista	206	fp-tofi	g	2	08.08.2003	25.08.2003	i2601ia[8]	ng/m3	10	164.6	*0.115876	*0.005558	*0.258154	*0.681274	*-0.418422	*0.083097	*0.011053	0.34	*0.043077
O-90006	Lista	206	fp-tofi	g	2	25.08.2003	01.09.2003	i2601ia[13]	ng/m3	10	63.6	*0.080083	*0.003695	*0.12645	*0.497292	*-1.082899	*0.088801	*0.007381	0.13	*0.024222
O-90006	Lista	206	fp-tofi	g	2	01.09.2003	08.09.2003	i2601ia[14]	ng/m3	10	65.4	0.69	*0.022094	0.33	11.51	*-1.053095	*0.049048	*0.007178	0.17	*0.056583
O-90006	Lista	206	fp-tofi	g	2	08.09.2003	15.09.2003	i2601ia[15]	ng/m3	10	67.1	0.33	*0.006333	*0.184831	*1.581785	*-1.026414	*0.071650	*0.007890	0.32	*0.050828
O-90006	Lista	206	fp-tofi	g	2	15.09.2003	22.09.2003	i2601ia[16]	ng/m3	10	65	0.37	*0.004076	*0.219265	*0.970581	*-1.059575	*0.067196	*0.006606	0.23	*0.033393
O-90006	Lista	206	fp-tofi	g	2	22.09.2003	29.09.2003	i2601ia[17]	ng/m3	10	65	*0.189282	*0.001461	*0.232803	*0.924581	*-1.059575	*0.045196	*0.007837	0.36	*0.055085
O-90006	Lista	206	fp-tofi	g	2	29.09.2003	01.10.2003	i2601ia[18]	ng/m3	10	68	*0.044902	*-0.000913	*0.049150	*0.355849	*-1.012829	*0.025849	*0.002491	0.25	*0.028537
O-90006	Lista	206	fp-tofi	g	2	06.10.2003	13.10.2003	i2601ia[19]	ng/m3	10	61.8	*0.025620	*-0.001004	*0.045343	*0.236371	*-1.11444	*-0.007024	*0.001770	0.35	*0.041756
O-90006	Lista	206	fp-tofi	g	2	13.10.2003	20.10.2003	i2601ia[21]	ng/m3	10	65.5	*0.189058	*0.002366	*0.203545	*1.13905	*-1.051487	*0.028210	*0.009762	*0.073401	*0.036649
O-90006	Lista	206	fp-tofi	g	2	20.10.2003	27.10.2003	h2402ha[4]	ng/m3	10	65.1	*0.181771	*0.009139	*0.251493	*1.177232	*1.361495	0.73	*0.025029	0.14	*0.037335
O-90006	Lista	206	fp-tofi	g	2	27.10.2003	03.11.2003	h2402ha[5]	ng/m3	10	64.5	0.37	*0.005193	0.33	*1.963376	*-1.067789	*0.204461	*0.005262	0.42	0.099
O-90006	Lista	206	fp-tofi	g	2	03.11.2003	10.11.2003	h2402ha[6]	ng/m3	10	63.5	0.66	*0.016456	0.67	*2.496658	*-1.084605	*0.213508	*0.017314	0.70	0.130
O-90006	Lista	206	fp-tofi	g	2	10.11.2003	17.11.2003	h2402ha[7]	ng/m3	10	63.3	1.45	0.055	0.53	4.23	*-1.088031	*0.138985	*0.017210	0.36	0.148
O-90006	Lista	206	fp-tofi	g	2	17.11.2003	23.11.2003	h2402ha[8]	ng/m3	10	57.5	*0.139710	*0.007043	*0.182473	*0.602570	*-1.197781	*0.074917	*0.003294	0.37	*0.065922
O-90006	Lista	206	fp-tofi	g	2	23.11.2003	30.11.2003	h2402ha[9]	ng/m3	10	63.5	0.88	*0.010157	0.42	*1.846264	*-1.084605	*0.184689	*0.010699	0.76	0.127
O-90006	Lista	206	fp-tofi	g	2	30.11.2003	07.12.2003	h2402ha[1]	ng/m3	10	71.2	0.87	0.033	*0.256772	*2.096036	*-0.967308	*0.171176	*0.010806	0.46	0.103
O-90006	Lista	206	fp-tofi	g	2	07.12.2003	15.12.2003	h2402ha[1]	ng/m3	10	63.7	0.52	*0.009654	0.34	*1.661504	*-1.081199	*0.164172	*0.015532	0.70	0.095
O-90006	Lista	206	fp-tofi	g	2	15.12.2003	22.12.2003	h2402ha[1]	ng/m3	10	61.5	*0.216477	*0.002195	*0.242149	*0.666142	*-1.119876	*0.118825	*0.005031	0.61	0.100
O-90006	Lista	206	fp-tofi	g	2	22.12.2003	29.12.2003	h2402ha[1]	ng/m3	10	62.1	*0.105045	*0.004589	*0.237072	*0.893845	*-1.109056	*0.176614	*0.017865	0.88	0.119
O-90006	Lista	206	fp-tofi	g	2	29.12.2003	05.01.2004	h2402ha[1]	ng/m3	10	57.2	*0.261771	*0.003758	0.33	*1.619542	*-1.204063	*0.147688	*0.004710	0.22	*0.039520

*Målingene er <=Nedre kvantifiseringsgrense

PRO_NR	stasnr	STASKOD	PROVETY	PROVETA	MÅLEPER	FRADATO	TILDATO	aprocenvn	UT_ENHE	UTV_VOL	LUFTVOL	Pb	Cd	Cu	Zn	Cr	Ni	Co	V	As
O-90006	Lista	206	fp-tofi	f	2	07.07.2003	14.07.2003	i2601ia[22]	ng/m3	10	67	0.97	*0.015791	*0.219074	*1.769313	*-0.153609	0.55	*0.013194	1.56	*0.1003284
O-90006	Lista	206	fp-tofi	f	2	14.07.2003	21.07.2003	i2601ia[23]	ng/m3	10	70.8	1.96	0.054	0.40	4.10	*-0.145365	0.89	*0.017994	2.86	0.217
O-90006	Lista	206	fp-tofi	f	2	21.07.2003	28.07.2003	i2601ia[24]	ng/m3	10	67.6	1.02	*0.014911	*0.219053	*1.913373	*-0.152246	*0.457396	*0.010562	1.62	*0.0969231
O-90006	Lista	206	fp-tofi	f	2	28.07.2003	08.08.2003	i2601ia[25]	ng/m3	10	102.7	1.60	0.039	*0.296669	*3.300331	*-0.100212	0.94	*0.028276	2.54	0.253
O-90006	Lista	206	fp-tofi	f	2	08.08.2003	25.08.2003	i2601ia[26]	ng/m3	10	164.6	0.64	*0.025504	*0.352600	3.96	*0.070267	0.71	*0.016002	2.10	0.150
O-90006	Lista	206	fp-tofi	f	2	25.08.2003	01.09.2003	i2601ia[29]	ng/m3	10	63.6	0.49	*0.019150	*0.084717	*1.771132	*-0.161821	*0.127358	*0.003993	*0.548427	*0.110566
O-90006	Lista	206	fp-tofi	f	2	01.09.2003	08.09.2003	i2601ia[30]	ng/m3	10	65.4	33.15	1.261	1.05	526.81	*-0.157367	0.54	*0.013975	1.77	0.721
O-90006	Lista	206	fp-tofi	f	2	08.09.2003	15.09.2003	i2601ia[31]	ng/m3	10	67.1	6.18	0.177	0.40	21.28	*-0.153380	0.64	*0.015260	2.05	0.308
O-90006	Lista	206	fp-tofi	f	2	15.09.2003	22.09.2003	h1602ha[1]	ng/m3	10	65	2.35	0.066	0.41	6.60	*0.725323	0.97	*0.033138	2.29	0.311
O-90006	Lista	206	fp-tofi	f	2	22.09.2003	29.09.2003	h1602ha[1]	ng/m3	10	65	2.24	0.044	*0.336892	4.50	*-0.158336	*0.473230	*0.012984	1.47	0.263
O-90006	Lista	206	fp-tofi	f	2	29.09.2003	06.10.2003	h1602ha[1]	ng/m3	10	68	0.55	*0.019382	*0.102764	*1.531529	*0.227588	*0.230588	*0.005352	*0.672941	*0.099588
O-90006	Lista	206	fp-tofi	f	2	06.10.2003	13.10.2003	h1602ha[1]	ng/m3	10	61.8	0.14	*0.004174	*0.037831	*0.507022	*-0.166535	*-0.096517	*0.017378	*0.327346	*0.044692
O-90006	Lista	206	fp-tofi	f	2	13.10.2003	20.10.2003	h1602ha[1]	ng/m3	10	65.5	2.58	0.075	*0.296916	10.61	*0.500549	*0.388091	*0.011206	*0.555114	0.655
O-90006	Lista	206	fp-tofi	f	2	20.10.2003	27.10.2003	h1602ha[1]	ng/m3	10	65.1	1.46	0.072	*0.138679	6.07	*-0.158093	*-0.091624	*0.001904	*0.192165	0.255
O-90006	Lista	206	fp-tofi	f	2	27.10.2003	03.11.2003	h1602ha[1]	ng/m3	10	64.5	2.61	0.052	0.57	5.33	*0.221488	*0.373953	*0.010604	*1.049147	0.264
O-90006	Lista	206	fp-tofi	f	2	03.11.2003	10.11.2003	h1602ha[2]	ng/m3	10	63.5	2.33	0.079	0.43	4.98	*-0.162076	*0.439842	*0.011086	1.36	0.329
O-90006	Lista	206	fp-tofi	f	2	10.11.2003	17.11.2003	h1602ha[2]	ng/m3	10	63.3	6.14	0.213	0.87	15.63	*-0.162588	0.81	*0.029763	1.49	0.903
O-90006	Lista	206	fp-tofi	f	2	17.11.2003	28.11.2003	h1602ha[2]	ng/m3	10	57.5	1.13	0.042	*0.337704	*2.882504	*-0.178988	*0.257913	*0.0112	*0.619130	0.237
O-90006	Lista	206	fp-tofi	f	2	23.11.2003	30.11.2003	h1602ha[2]	ng/m3	10	63.5	3.20	0.119	0.66	8.50	2.36	2.04	*0.048094	2.41	0.456
O-90006	Lista	206	fp-tofi	f	2	30.11.2003	07.12.2003	h1602ha[2]	ng/m3	10	71.2	4.63	0.167	0.50	16.79	*0.777612	0.73	*0.020140	1.31	0.528
O-90006	Lista	206	fp-tofi	f	2	07.12.2003	15.12.2003	h1602ha[2]	ng/m3	10	63.7	2.90	0.056	0.41	6.27	*0.343108	0.68	*0.019372	1.29	0.212
O-90006	Lista	206	fp-tofi	f	2	15.12.2003	22.12.2003	h1602ha[2]	ng/m3	10	61.5	2.57	0.060	0.40	3.84	*1.096358	0.80	*0.030634	1.27	0.288
O-90006	Lista	206	fp-tofi	f	2	22.12.2003	29.12.2003	h1602ha[2]	ng/m3	10	62.1	0.58	*0.017359	*0.338615	*1.950789	*0.540515	*0.423510	*0.013752	*0.891948	*0.051723
O-90006	Lista	206	fp-tofi	f	2	29.12.2003	05.01.2004	h1602ha[2]	ng/m3	10	57.2	3.26	0.082	2.52	15.67	*0.188216	*0.301048	*0.008461	*0.639510	0.328

*Målingene er <=Nedre kvantifiseringsgrense

Vedlegg 5

Tungmetaller i nedbør på Lista (U-809-04 og U-840-04)

Målerapport nr. U-809-04

Oppdragsgiver:	NILU v/Jozef Pacyna Her Kopi : W. Aas
Prosjekt nr.:	O-90006
Prøvetaking:	
Sted:	Lista
Ansvar:	NILU
Kommentar:	Prøver for perioden 01.01.2003 – 31.08.2003
Prøveinformasjon:	
Prøvetype:	Tungmetaller i nedbør
Prøver mottatt:	
Kommentar:	Parallele analyser er utført for følgende prøver, og samsvarende måleresultater oppnådd. Lista 03/01/06, 03/01/13, 03/01/20, 03/01/27, 03/02/01, 03/02/03, 03/02/10, 03/02/17, 03/03/03, 03/03/24, 03/04/21, 03/05/05, 03/05/12, 03/05/19, 03/05/26, 03/07/21, 03/08/25
Analyser:	
Utført av	Norsk institutt for luftforskning Postboks 100 N-2007 KJELLER
Målemetode:	NILU-U-22: Forskrift for behandling av nedbørsprøver for analyse av tungmetaller Analysemetoden NILU-U-22 er akkreditert av Norsk Akkreditering i henhold til ISO/IEC-17025
Måleusikkerhet:	Måleusikkerheten for ICPMS varierer noe fra element til element. Generelt ligger måleusikkerheten innenfor $\pm 10\%$ ved 10 ng/ml (ppb). Måleusikkerheten omfatter bare det som kan tilskrives prøvebehandling og kjemiske analyser

Måleusikkerhet forts: på laboratoriet. Ved vurdering av total usikkerhet må det tas hensyn til bidraget fra prøvetaking samt prøvens representativitet. I de tilfellene der NILU ikke har hatt ansvar for prøvetakingen, kan vi ikke tallfeste dette bidraget til usikkerheten.

Kommentar: Nedbørsprøvene inneholder mye klorid, dette interferer med vanadium (V). Denne interferensen gjør at vi ikke kan rapportere vanadium.
Mn er rapportert.

Kontaktperson: Marit Vadset

Godkjenning: Kjeller, 4. februar 2004

Marit Vadset

Marit Vadset
Ingeniør, Kjemisk Analyse

Vedlegg: ?? Analyseresultater: 1 side
Målerapporten og vedleggene omfatter totalt 3 sider

Måleresultatene gjelder bare de prøvene som er analysert. Denne rapporten skal ikke gjengis i utdrag, uten skriftlig godkjenning fra laboratoriet.

Analyseresultatene for ICPMS følger som et eget vedlegg med overskrift "NILU ICPMS RAPPORT".

Oppdragsgivers prøveidentifikasjon er angitt i målerapporten for hver enkelt prøve. Analyseresultatene i rapportvedlegget er gitt med varierende antall gjeldende siffer. Med metodens beregnede usikkerhet som grunnlag, anbefales det å ikke benytte mer enn 3 gjeldende siffer ved vurdering eller i presentasjon av resultatene.

Et minus "-" foran måleresultatet, betyr at det er mindre enn deteksjonsgrensen for analysemetoden. Er måleresultatet oppgitt som f.eks. "-0.01", betyr det at deteksjonsgrensen for metoden er 0.01.

Prøveidentifikasjon	Pos	Prøve dato	Nilu id	Fort.			Pb	Cd	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	
				Prøvetyp	faktor	Erhet												
Lista		03/01/01	03/01/06	0-90006	rb-nilutn	1.	ng/ml	114.100	0.151		0.6	3.6		0.16	0.59	4.19	156.0	0.59
Lista		03/01/06	03/01/13	0-90006	rb-nilutn	1.	ng/ml	4.266	0.019		-0.2	4.2		0.03	-0.20	1.55	5.7	0.31
Lista		03/01/13	03/01/20	0-90006	rb-nilutn	1.	ng/ml	0.485	0.114		1.6	9.1		0.10	1.85	1.65	17.2	7.50
Lista		03/01/20	03/01/27	0-90006	rb-nilutn	1.	ng/ml	1.954	0.019		-0.2	-0.5		-0.01	-0.20	0.79	3.6	1.82
Lista		03/01/27	03/02/01	0-90006	rb-nilutn	1.	ng/ml	1.368	0.053		-0.2	1.0		0.01	0.57	5.66	16.5	1.25
Lista		03/02/01	03/02/03	0-90006	rb-nilutn	1.	ng/ml	0.928	-0.005		-0.2	0.6		-0.01	-0.20	2.09	3.5	0.67
Lista		03/02/03	03/02/10	0-90006	rb-nilutn	1.	ng/ml	3.903	0.087		-0.2	1.2		-0.01	-0.20	1.44	6.3	0.80
Lista		03/02/10	03/02/17	0-90006	rb-nilutn	1.	ng/ml	20.950	0.463		0.3	4.8		0.06	0.87	5.27	30.4	3.69
Lista		03/02/17	03/02/24	0-90006	rb-nilutn	1.	ng/ml	14.000	0.323		2.4	17.2		0.26	2.59	5.93	33.7	1.35
Lista		03/02/24	03/03/01	0-90006	rb-nilutn		ng/ml											
Lista		03/03/01	03/03/03	0-90006	rb-nilutn		ng/ml											
Lista		03/03/03	03/03/10	0-90006	rb-nilutn	1.	ng/ml	2.109	0.050		-0.2	2.7		0.03	0.22	0.43	4.6	0.42
Lista		03/03/10	03/03/17	0-90006	rb-nilutn	1.	ng/ml	3.485	0.065		-0.2	4.0		0.01	0.43	2.66	5.6	3.17
Lista		03/03/17	03/03/24	0-90006	rb-nilutn		ng/ml											
Lista		03/03/24	03/03/31	0-90006	rb-nilutn	1.	ng/ml	6.719	0.138		2.4	53.0		0.24	3.55	8.26	39.9	1.01
Lista		03/03/31	03/04/01	0-90006	rb-nilutn		ng/ml											
Lista		03/04/01	03/04/07	0-90006	rb-nilutn	1.	ng/ml	2.340	0.160		0.4	1.4		-0.01	0.54	1.55	10.0	2.04
Lista		03/04/07	03/04/14	0-90006	rb-nilutn	1.	ng/ml	1.176	0.098		1.3	6.4		0.03	1.53	1.76	8.0	1.29
Lista		03/04/14	03/04/21	0-90006	rb-nilutn		ng/ml											
Lista		03/04/21	03/04/28	0-90006	rb-nilutn	1.	ng/ml	6.722	0.147		0.3	17.4		0.20	0.49	2.00	13.8	0.52
Lista		03/04/28	03/05/01	0-90006	rb-nilutn	1.	ng/ml	1.107	0.092		0.4	1.1		-0.01	-0.20	1.01	2.5	0.46
Lista		03/05/01	03/05/05	0-90006	rb-nilutn	1.	ng/ml	0.810	0.035		0.5	1.6		-0.01	0.24	1.12	3.8	0.37
Lista		03/05/05	03/05/12	0-90006	rb-nilutn	1.	ng/ml	4.308	0.113		0.6	7.1		0.11	1.15	4.12	13.7	0.85
Lista		03/05/12	03/05/19	0-90006	rb-nilutn	1.	ng/ml	320.000	0.207		0.4	2.8		0.27	0.54	2.01	197.0	0.16
Lista		03/05/19	03/05/26	0-90006	rb-nilutn	1.	ng/ml	2.928	0.059		0.2	1.0		0.04	1.41	5.83	21.5	0.14
Lista		03/05/26	03/06/01	0-90006	rb-nilutn	1.	ng/ml	4.521	0.034		0.5	4.3		0.13	12.08	4.40	19.1	0.28
Lista		03/06/01	03/06/02	0-90006	rb-nilutn		ng/ml											
Lista		03/06/02	03/06/09	0-90006	rb-nilutn	1.	ng/ml	1.098	0.010		0.2	2.3		0.03	0.41	1.02	3.9	0.15
Lista		03/06/09	03/06/16	0-90006	rb-nilutn	1.	ng/ml	1.727	0.052		0.3	1.2		0.02	0.38	1.27	6.5	0.25
Lista		03/06/16	03/06/23	0-90006	rb-nilutn	1.	ng/ml	1.963	0.015		0.4	2.9		0.06	0.36	0.99	5.5	0.56
Lista		03/06/23	03/06/30	0-90006	rb-nilutn	1.	ng/ml	1.073	0.044		0.3	1.0		0.02	0.31	0.42	2.3	0.22
Lista		03/06/30	03/07/01	0-90006	rb-nilutn		ng/ml											
Lista		03/07/01	03/07/07	0-90006	rb-nilutn	1.	ng/ml	2.475	0.054		0.4	2.5		0.10	1.13	1.32	23.3	0.12
Lista		03/07/07	03/07/14	0-90006	rb-nilutn	1.	ng/ml	14.980	0.188		6.8	23.1		0.40	10.61	13.76	79.8	3.29
Lista		03/07/14	03/07/21	0-90006	rb-nilutn	1.	ng/ml	1.359	0.086		0.3	2.1		0.06	1.03	1.16	8.1	-0.10
Lista		03/07/21	03/07/28	0-90006	rb-nilutn	1.	ng/ml	0.964	0.470		0.2	0.7		0.01	0.37	0.93	4.8	0.14
Lista		03/07/28	03/08/01	0-90006	rb-nilutn	1.	ng/ml	2.257	0.027		0.5	3.8		0.04	0.61	2.45	7.5	0.37
Lista		03/08/01	03/08/08	0-90006	rb-nilutn		ng/ml											
Lista		03/08/08	03/08/25	0-90006	rb-nilutn	1.	ng/ml	0.879	-0.005		0.5	2.6		0.05	0.31	0.71	2.8	0.41
Lista		03/08/25	03/09/01	0-90006	rb-nilutn	1.	ng/ml	24.130	0.019		0.4	5.1		0.09	0.67	3.82	7.0	0.75

Målerapport nr. U-840-04

Oppdragsgiver:

NILU v/Jozef Pacyna
Her

Kopi : W. Aas

Prosjekt nr.:

O-90006

Prøvetaking:

Sted:

Lista

Ansvar:

NILU

Kommentar:

Prøver for perioden 01.09.2003 – 31.12.2003

Prøveinformasjon:

Prøvetype:

Tungmetaller i nedbør

Prøver mottatt:

Kommentar:

Parallell analyse er utført for følgende prøve, og samsvarende måleresultater oppnådd.
Lista 03/09/01.

Lista 03/11/30-03/12/08 månedskift ikke utført. Resultatet overført til 03/12/01.

Analyser:

Utført av

Norsk institutt for luftforskning
Postboks 100
N-2007 KJELLER

Målemetode:

NILU-U-22: Forskrift for behandling av nedbørsprøver for analyse av tungmetaller

Analysemetoden NILU-U-22 er akkreditert av Norsk Akkreditering i henhold til ISO/IEC-17025

Kommentar:

Nedbørsprøvene inneholder mye klorid, dette interferer med vanadium (V). Denne interferensen gjør at vi ikke kan rapportere vanadium.
Mn er rapportert.



Kontaktperson: Marit Vadset

Godkjenning: Kjeller, 31. mars 2004

Marit Vadset

Marit Vadset
Ingeniør, Kjemisk Analyse

Vedlegg: 20 Analyseresultater: 1 side
Målerapporten og vedleggene omfatter totalt 3 sider

Måleresultatene gjelder bare de prøvene som er analysert. Denne rapporten skal ikke gjengis i utdrag, uten skriftlig godkjenning fra laboratoriet.

Oppdragsgivers prøveidentifikasjon er angitt i målerapporten for hver enkelt prøve. Analyseresultatene i rapportvedlegget er gitt med varierende antall gjeldende siffer. Med metodens beregnede usikkerhet som grunnlag, anbefales det å ikke benytte mer enn 3 gjeldende siffer ved vurdering eller i presentasjon av resultatene.

Usikkerheten i resultatene kan fås ved henvendelse til NILUs laboratorium.

Et minus "-" foran måleresultatet, betyr at det er mindre enn deteksjonsgrensen for analysemetoden. Er måleresultatet oppgitt som f.eks. "-0.01", betyr det at deteksjonsgrensen for metoden er 0.01.

PRO_NR	stasnr	PROVETY	FRADATO	TILDATO	aprocnavn	UT_ENHET	DIL_FKT	Pb	Cd	Cu	Zn	Cr	Ni	Co	Mn	As
O-90006	Lista	nb-nilutm	01.09.2003	08.09.2003	d0212da[32]	ng/ml										
O-90006	Lista	nb-nilutm	08.09.2003	15.09.2003	h2801ha[27]	ng/ml	1	4.77	*0.057	1.76	33.1	0.3	0.53	*0.05	5.3	0.31
O-90006	Lista	nb-nilutm	15.09.2003	22.09.2003	h2801ha[29]	ng/ml	1	1.699	*0.048	0.645	8.327	*-0.2	*-0.2	*-0.01	1.796	0.211
O-90006	Lista	nb-nilutm	22.09.2003	29.09.2003	h2801ha[31]	ng/ml	1	2.9	*0.029	2.372	11.24	*-0.2	0.943	*0.085	6.766	0.748
O-90006	Lista	nb-nilutm	29.09.2003	01.10.2003	h2801ha[33]	ng/ml	1	2.681	*0.022	2.216	10.78	0.314	0.876	*0.042	4.288	0.714
O-90006	Lista	nb-nilutm	01.10.2003	06.10.2003	h3001ha[10]	ng/ml	1	1.102	*0.016	0.63	1.816	*-0.2	*-0.2	*-0.01	0.704	0.243
O-90006	Lista	nb-nilutm	06.10.2003	13.10.2003	h3001ha[12]	ng/ml	1	0.998	*0.04	0.592	6.4	*-0.2	0.303	*0.026	0.706	0.282
O-90006	Lista	nb-nilutm	13.10.2003	20.10.2003	h3001ha[14]	ng/ml	1	0.976	*-0.005	1.534	6.869	*-0.2	1.197	*0.062	1.771	0.884
O-90006	Lista	nb-nilutm	20.10.2003	27.10.2003	h3001ha[16]	ng/ml	1	0.791	*0.026	1.388	8.485	*-0.2	0.38	*0.026	4.204	0.395
O-90006	Lista	nb-nilutm	27.10.2003	01.11.2003	h3001ha[18]	ng/ml	1	1.32	*0.086	1.607	5.948	*-0.2	0.512	*0.041	4.474	0.508
O-90006	Lista	nb-nilutm	01.11.2003	03.11.2003	h3001ha[20]	ng/ml	1	1.844	*0.022	0.818	5.405	*-0.2	0.275	*0.011	0.841	0.198
O-90006	Lista	nb-nilutm	03.11.2003	10.11.2003	h3001ha[22]	ng/ml	1	0.8	*0.037	0.402	2.199	*-0.2	0.326	*-0.01	*-0.5	0.269
O-90006	Lista	nb-nilutm	10.11.2003	17.11.2003	h3001ha[24]	ng/ml	1	3.131	*0.062	1.779	8.039	*-0.2	0.664	*0.044	2.719	0.95
O-90006	Lista	nb-nilutm	17.11.2003	23.11.2003	h3001ha[25]	ng/ml	1	2.041	*0.093	0.694	5.027	*-0.2	0.292	*0.011	0.895	0.268
O-90006	Lista	nb-nilutm	23.11.2003	30.11.2003	h3001ha[27]	ng/ml	1	0.38	*-0.005	0.307	1.332	*-0.2	*-0.2	*-0.01	*-0.5	0.144
O-90006	Lista	nb-nilutm	30.11.2003	01.12.2003	h3001ha[29]	ng/ml	1	1.463	*0.042	0.929	4.844	*-0.2	0.328	*0.014	1.093	0.305
O-90006	Lista	nb-nilutm	01.12.2003	08.12.2003		ng/ml	1	0.832	*0.023	1.384	3.755	*-0.2	0.282	*0.027	0.969	0.257
O-90006	Lista	nb-nilutm	08.12.2003	15.12.2003	h3001ha[31]	ng/ml	1	0.832	*0.023	1.384	3.755	*-0.2	0.282	*0.027	0.969	0.257
O-90006	Lista	nb-nilutm	15.12.2003	22.12.2003	h3001ha[33]	ng/ml	1	1.145	*0.008	0.555	2.44	*-0.2	0.267	*-0.01	0.612	0.431
O-90006	Lista	nb-nilutm	22.12.2003	29.12.2003	h3001ha[32]	ng/ml	1	0.978	*0.019	0.941	2.978	*-0.2	0.35	*0.029	0.977	0.501
							1	0.338	*0.007	0.447	3.324	*-0.2	*-0.2	*0.016	1.254	1.023

*Målingene <= Nedre kvantifiseringsgrense

Vedlegg 6

Kvikksølv i luft på Lista (U-875-04 og U-878-04)



Målerapport nr. U-875-04

Oppdragsgiver: NILU v/Torunn Berg
Her

Prosjekt nr: O-90006

Prøvetaking:
Sted: Lista
Ansvar: NILU
Kommentar:

Prøveinformasjon:
Prøve type: Elementært kvikksølv i gassfase

Prøver mottatt: Fortløpende
Antall prøver: 10
Kommentar:


Analyser:
Utført av: Norsk institutt for luftforskning
Postboks 100
N-2007 KJELLER

Målemetode: Analysene er utført ved NILUs avdeling for Uorganisk analyse.
Følgende metoder er brukt:

NILU-U-53: Forskrift for prøvetaking av Hg i gassfase med gullfelle og analyse ved bruk av atomfluorescensspektrofotometri

Måleusikkerhet:

Kontakt person: Torunn Berg

Godkjenning: Kjeller, 19. mai 2004

Torunn Berg
Seniorforsker

Vedlegg: 1 side
Målerapporten og vedleggene omfatter i alt 2 sider

Elementært kvikksølv i gassfase, Lista, 2003

Dato	Hg (ng/m³)
12.03.2003	1.1
10.11.2003	2.2
18-19.4-03	1.5
26.04.2003	1.4
15.05.2003	1.2
07.07.2003	2.6
18.07.2003	2.5
28.07.2003	2.1
07.08.2003	1.4
29.08.2003	1.7

Målerapport nr. U-878-04

Oppdragsgiver: NILU v/Torunn Berg
Her

Prosjekt nr: O-90006

Prøvetaking:
Sted: Lista
Ansvar: NILU
Kommentar:

Prøveinformasjon:
Prøve type: Partikulært kvikksølv (PM)

Prøver mottatt:
Antall prøver:
Kommentar:


Analyser:
Utført av: Norsk institutt for luftforskning
Postboks 100
N-2007 KJELLER

Målemetode: Analysene er utført ved NILUs avdeling for Uorganisk analyse.
Følgende metoder er brukt:

PM: Høyvolumprøvetaker/CV-AFS
Minifeller/CV-AFS

Målesikkerhet:

Kontakt person: Torunn Berg

Godkjenning: Kjeller, 27. mai 2004

Torunn Berg
Seniorforsker

Vedlegg: 1 side
Målerapporten og vedleggene omfatter i alt 2 sider

Måleresultatene gjelder bare de prøvene som er analysert. Denne rapporten skal ikke gjengis i utdrag, uten skriftlig godkjenning fra laboratoriet.

Partikulært kvikksølv (PM), Lista, 2003
Metode: Høyvolumprøvetaker

Fradato	Tildato	PM (pg/m3)
06.01.2003	09.01.2003	21.6
10.01.2003	16.01.2003	0.3
17.01.2003	23.01.2003	1.9
24.01.2003	30.01.2003	1.1
31.01.2003	06.02.2003	2.1
07.02.2003	13.02.2003	13.9
14.02.2003	17.02.2003	18.9
07.03.2003	13.03.2003	6.4
14.03.2003	20.03.2003	18.2
21.03.2003	27.03.2003	16.6
28.03.2003	03.04.2003	2.1
04.04.2003	10.04.2003	3.3
11.04.2003	17.04.2003	0.0
18.04.2003	24.04.2003	4.7
25.04.2003	01.05.2003	8.1
02.05.2003	08.05.2003	2.1
09.05.2003	15.05.2003	2.4
16.05.2003	22.05.2003	1.6
23.05.2003	29.05.2003	1.7
06.06.2003	12.06.2003	3.1
13.06.2003	19.06.2003	1.8
20.06.2003	26.06.2003	1.8
04.07.2003	10.07.2003	0.8

Vedlegg 7

Kvikksølv i nedbør på Lista (U-872-04)

Målerapport nr. U-872-04

Oppdragsgiver:	NILU v/Torunn Berg Her
Prosjekt nr:	O-90006
Prøvetaking:	
Sted:	Lista Fyr, Nedbør
Ansvar:	NILU
Kommentar:	
Prøveinformasjon:	
Prøve type:	Kvikksølv
Prøver mottatt:	Månedlig
Antall prøver:	9
Kommentar:	
Analyser:	
Utført av:	Norsk institutt for luftforskning Postboks 100 N-2007 KJELLER
Målemetode:	Analysene er utført ved NILUs avdeling for Uorganisk analyse. Følgende metoder er brukt: NILU-U-60: Forskrift for prøvetaking av Hg i vann.
Måleusikkerhet:	Analyseusikkerheten ligger innenfor 20% ved det målte nivå.
Kontakt person:	Torunn Berg

Godkjenning: Kjeller, 19. mai 2004



Torunn Berg
Seniorforsker

Vedlegg: 1 side
Målerapporten og vedleggene omfatter i alt 3 sider

Måleresultatene gjelder bare de prøvene som er analysert. Denne rapporten skal ikke gjengis i utdrag, uten skriftlig godkjenning fra laboratoriet.

Totalt kvikksølv i nedbør, Lista, 2003

Fradato	Tildato	Hg (ng/l)
01.02.2003	01.03.2003	11,1
01.03.2003	01.04.2003	6,0
01.04.2003	01.05.2003	4,8
01.05.2003	01.06.2003	8,8
01.06.2003	01.07.2003	9,6
01.07.2003	01.08.2003	10,5
01.10.2003	01.11.2003	8,9
01.11.2003	01.12.2003	7,5
01.12.2003	01.01.2004	7,5

Vedlegg 8

Tungmetaller i luft i Ny-Ålesund (U-824-04)

Målerapport nr. U-824-04

Oppdragsgiver:	NILU v/Stein Manø Her
Prosjekt nr.:	O-93062
Prøvetaking:	
Sted:	Zeppelinfjellet, Ny-Ålesund
Ansvar:	NILU
Kommentar:	
Prøveinformasjon:	
Prøvetype:	Luftprøver, fp-hivol
Prøven mottatt:	
Kommentar:	Tungmetaller i perioden 01.01.-31.12..2003
Analyser:	
Utført av	Norsk institutt for luftforskning Postboks 100 N-2027 KJELLER
Målemetode:	NILU-U-49: Forskrift for måling av svevestøv, hovedkomponenter og tungmetaller i svevestøv med Anderson Highvolum prøvetaker. NILU-U-116: Forskriftfor bruk av mikrobølgeovn. NILU-U-100: Forskrift for bruk av Induktivt Koplet Plasma Masse Spektrometer (ICP-MS). Analysemetoden NILU-U-49 er akkreditert av Norsk Akkreditering i henhold til ISO/IEC-17025.
Kommentar:	For luftprøver beregnes måleresultatet i rapporten på basis av luftvolum. I slike tilfeller vil deteksjongrensen som rapporteres kunne variere fra prøve til prøve dersom luftvolumet varierer. I de tilfellene der NILU ikke har hatt ansvar for prøvetakingen, kan vi ikke tallfeste dette bidraget til usikkerheten.

Deteksjonsgrensen er basert på tre standardavvik for 11 blankfilter, Kvalitet: Whatman 41, med unntak for krom (Cr) og kobber (Cu), der deteksjonsgrensen er basert på ett standardavvik.

Filter merket Zeppelin 12-14.02.03, some snow on the filter.

Filter merket Zeppelin 26-28.02.03, snow on filter

Filter merket Zeppelin 19.-21.03.03, snow on filter.

Filter merket Zeppelin 16-18.04.03, some snow on filter.

Italian smoking on the roof.

Filter merket Zeppelin 23.-25.07.03, filter is wet.

Filter merket Zeppelin 13.-15.08.03, filter is wet , backup filter is also wet.

Filter merket Zeppelin 03.-05.09.03, ice on impaction plate.

Filter merket Zeppelin 1.-2.10.03, 1 day only.

Kontaktperson: Marit Vadset

Godkjenning: Kjeller, 8. mars 2004



Marit Vadset

Ingeniør, Kjemisk analyse

Vedlegg: Analyseresultater for 52 prøver: 2 sider
Målerapporten og vedleggene omfatter totalt 4 sider

Måleresultatene gjelder bare de prøvene som er analysert. Denne rapporten skal ikke gjengis i utdrag, uten skriftlig godkjenning fra laboratoriet.

Analyseresultatene for ICPMS følger som et eget vedlegg med overskrift "NILU ICPMS RAPPORT".

Oppdragsgivers prøveidentifikasjon er angitt i målerapporten for hver enkelt prøve. Analyseresultatene i rapportvedlegget er gitt med varierende antall gjeldende siffer. Med metodens beregnede usikkerhet som grunnlag, anbefales det å ikke benytte mer enn 3 gjeldende siffer ved vurdering eller i presentasjon av resultatene.

Usikkerheten i resultatene kan fås ved henvendelse til NILUs laboratorium.

Et minus "-" foran måleresultatet, betyr at det er mindre enn deteksjonsgrensen for analysemetoden. Er måleresultatet oppgitt som f.eks. "-0.01", betyr det at deteksjonsgrensen for metoden er 0.01.

stasnr	STASKODI	PROVETYF	MÅLEPERI	FRADATO	TILDATO	lopenr	UT_ENHEI	UTV_VOL	LUFTVOL	Pb	Cd	Cu	Zn	Cr	Ni	Co	Mn	V	As
Zeppelin	801	fp-hivol	6	01.01.2003	03.01.2003	N3Z001	ng/m3	50	3219	0.32	0.018	0.12	*0.770035	*-0.0514405	0.05	0.003	0.16	0.04	0.044
Zeppelin	801	fp-hivol	6	08.01.2003	10.01.2003	N3Z004	ng/m3	50	3210	0.89	0.026	0.24	1.27	*-0.0458578	0.14	0.006	0.29	0.27	0.160
Zeppelin	801	fp-hivol	6	15.01.2003	17.01.2003	N3Z006	ng/m3	50	3240	3.18	0.084	0.39	4.08	*0.1281783	0.36	0.017	0.75	0.81	0.480
Zeppelin	801	fp-hivol	6	22.01.2003	24.01.2003	N3Z007	ng/m3	50	3302	0.80	0.026	0.29	1.49	*-0.0428702	0.21	0.008	0.28	0.39	0.191
Zeppelin	801	fp-hivol	6	29.01.2003	31.01.2003	N3Z009	ng/m3	50	3212	2.48	0.085	0.72	3.83	*0.1420892	0.29	0.024	1.03	0.52	0.417
Zeppelin	801	fp-hivol	6	05.02.2003	07.02.2003	N3Z011	ng/m3	50	3161	0.34	0.013	0.22	1.66	*-0.0477667	0.14	0.011	0.43	0.22	0.068
Zeppelin	801	fp-hivol	6	12.02.2003	14.02.2003	N3Z013	ng/m3	50	3260	0.69	0.019	0.14	1.12	*0.0590152	0.12	0.004	0.26	0.17	0.110
Zeppelin	801	fp-hivol	6	19.02.2003	21.02.2003	N3Z015	ng/m3	50	3162	0.42	0.013	0.34	1.05	*-0.0453239	0.07	0.008	0.15	0.07	0.082
Zeppelin	801	fp-hivol	6	26.02.2003	28.02.2003	N3Z017	ng/m3	50	3339	1.32	0.045	0.46	2.46	*0.0615133	0.10	0.010	0.60	0.21	0.232
Zeppelin	801	fp-hivol	6	05.03.2003	08.03.2003	N3Z019	ng/m3	50	4775	2.64	0.068	0.43	3.36	*0.0624961	0.19	0.019	0.93	0.37	0.428
Zeppelin	801	fp-hivol	6	12.03.2003	14.03.2003	N3Z022	ng/m3	50	3184	3.16	0.082	0.43	4.10	0.21	0.23	0.023	1.21	0.40	0.610
Zeppelin	801	fp-hivol	6	19.03.2003	21.03.2003	N3Z024	ng/m3	50	3042	1.85	0.067	0.62	3.56	*0.0889085	0.23	0.016	0.59	0.32	0.274
Zeppelin	801	fp-hivol	6	26.03.2003	28.03.2003	N3Z026	ng/m3	50	3016	2.63	0.071	0.38	3.94	0.22	0.21	0.020	0.84	0.34	0.357
Zeppelin	801	fp-hivol	6	02.04.2003	04.04.2003	N3Z029	ng/m3	50	3121	1.48	0.055	0.55	2.58	*0.1182695	0.28	0.035	0.98	0.35	0.220
Zeppelin	801	fp-hivol	6	09.04.2003	11.04.2003	N3Z031	ng/m3	50	3256	0.34	0.011	0.16	0.88	*-0.0446772	0.05	0.006	0.18	0.11	0.058
Zeppelin	801	fp-hivol	6	16.04.2003	18.04.2003	N3Z034	ng/m3	50	3430	0.19	0.005	0.23	1.68	*-0.0437439	0.04	0.009	0.09	0.11	0.025
Zeppelin	801	fp-hivol	6	30.04.2003	02.05.2003	N3Z038	ng/m3	50	3228	0.52	0.021	0.22	0.97	*-0.0454526	0.06	0.009	0.36	0.10	0.067
Zeppelin	801	fp-hivol	6	07.05.2003	09.05.2003	N3Z040	ng/m3	50	3278	0.79	0.036	0.30	1.56	*0.0517619	0.12	0.017	0.58	0.13	0.089
Zeppelin	801	fp-hivol	6	14.05.2003	16.05.2003	N3Z043	ng/m3	50	3354	0.13	0.006	*0.0566719	*0.6051046	*-0.0470004	*0.0206174	0.003	0.14	0.04	0.023
Zeppelin	801	fp-hivol	6	21.05.2003	23.05.2003	N3Z046	ng/m3	50	3242	0.25	0.010	0.20	*0.7268589	*0.0624961	*0.0210098	0.004	0.14	0.04	0.028
Zeppelin	801	fp-hivol	6	28.05.2003	30.05.2003	N3Z049	ng/m3	50	3430	0.12	0.005	0.20	*0.3835071	*0.1172675	0.07	0.005	0.11	0.03	0.014
Zeppelin	801	fp-hivol	6	04.06.2003	06.06.2003	N3Z052	ng/m3	50	3356	0.07	*0.0018561	0.11	*0.2737945	*0.0591668	*0.0143961	*0.001667	*-0.0510547	0.02	*0.0077305
Zeppelin	801	fp-hivol	6	11.06.2003	13.06.2003	N3Z055	ng/m3	50	3152	0.08	*0.0019271	0.24	*0.5096208	*0.0723462	*-0.0117683	*0.0015185	0.07	0.02	0.009
Zeppelin	801	fp-hivol	6	18.06.2003	20.06.2003	N3Z058	ng/m3	50	3333	0.04	*0.0014404	*0.0189367	*0.1721965	*0.1500041	0.04	*0.0010381	*-0.0557654	0.01	*0.0058348
Zeppelin	801	fp-hivol	6	25.06.2003	27.06.2003	N3Z060	ng/m3	50	3247	0.02	*0.0006991	*0.0941078	*0.1873432	*0.1232623	*0.0372375	*0.0020742	*-0.0592785	0.02	*0.0054397
Zeppelin	801	fp-hivol	6	02.07.2003	04.07.2003	N3Z062	ng/m3	50	3230	*-0.0054541	*-0.000611	*0.0176407	*0.0794223	*0.1054295	*-0.0119431	*0.0008013	*-0.0574937	0.02	*0.0026534
Zeppelin	801	fp-hivol	6	09.07.2003	11.07.2003	N3Z064	ng/m3	50	3244	0.04	*-0.000674	*-0.0151578	*0.155472	*-0.0531074	*0.0147665	0.007	0.04	0.04	0.010
Zeppelin	801	fp-hivol	6	16.07.2003	18.07.2003	N3Z067	ng/m3	50	3160	0.02	*0.0009882	0.11	*0.2428835	*0.0790047	0.07	*0.0015015	*-0.0560175	0.11	*0.0021921
Zeppelin	801	fp-hivol	6	23.07.2003	25.07.2003	N3Z070	ng/m3	50	3208	0.05	*-0.000656	0.17	*0.4639053	*-0.0516886	0.05	*0.00151	*-0.0617221	0.12	*0.0078297
Zeppelin	801	fp-hivol	6	30.07.2003	01.08.2003	N3Z073	ng/m3	50	3313	0.09	*0.0023999	*0.0904315	*0.2373882	*0.0853512	0.08	*0.002195	*-0.0553322	0.03	0.020
Zeppelin	801	fp-hivol	6	06.08.2003	08.08.2003	N3Z076	ng/m3	50	3189	0.05	*-0.0006304	0.18	*0.277994	*0.0566683	0.16	*0.0019367	*-0.0593151	0.40	0.008
Zeppelin	801	fp-hivol	6	13.08.2003	15.08.2003	N3Z079	ng/m3	50	3349	*0.0084896	*-0.0005968	*-0.013423	*0.1118642	*0.0568051	*0.0195134	*0.0003229	*-0.0561582	0.04	*0.0071239
Zeppelin	801	fp-hivol	6	20.08.2003	22.08.2003	N3Z082	ng/m3	50	3279	0.01	*-0.0006321	*0.0576922	*0.1303698	*0.0714312	*0.0167709	*0.0013855	*-0.0594766	0.02	*0.0039971
Zeppelin	801	fp-hivol	6	27.08.2003	29.08.2003	N3Z085	ng/m3	50	3289	0.02	*-0.0005611	*0.0346608	*0.0865749	*0.0692084	*0.0239631	0.003	0.15	0.02	*0.0071292
Zeppelin	801	fp-hivol	6	03.09.2003	05.09.2003	N3Z088	ng/m3	50	3312	0.44	0.037	0.75	5.79	*0.0973853	0.22	0.007	0.35	0.01	*0.0065865
Zeppelin	801	fp-hivol	6	10.09.2003	12.09.2003	N3Z091	ng/m3	50	3288	*0.0062764	*-0.0005925	*0.0444293	*0.2003284	*0.0695674	*-0.0115814	*0.0010379	*-0.0557529	0.02	*0.0015297
Zeppelin	801	fp-hivol	6	17.09.2003	19.09.2003	N3Z094	ng/m3	50	3221	0.02	*-0.000602	0.16	*0.2477925	*0.0830705	0.11	0.008	0.33	0.05	*0.0034093
Zeppelin	801	fp-hivol	6	24.09.2003	26.09.2003	N3Z097	ng/m3	50	3268	0.11	*0.0007814	0.38	1.28	0.32	0.13	0.054	2.15	0.27	0.031
Zeppelin	801	fp-hivol	6	01.10.2003	02.10.2003	N3Z100	ng/m3	50	1859	0.07	*-0.0011201	0.13	*0.5646821	0.23	0.11	0.027	1.32	0.18	0.029
Zeppelin	801	fp-hivol	6	08.10.2003	10.10.2003	N3Z102	ng/m3	50	3306	0.08	*0.0018028	*0.079814	*0.2299469	*0.0577635	*0.0141921	*0.0019847	0.12	0.03	0.008
Zeppelin	801	fp-hivol	6	16.10.2003	17.10.2003	N3Z105	ng/m3	50	1622	0.04	*-0.001147	0.18	0.86	*0.1310089	*0.0306852	*0.0017567	*-0.1079273	0.03	0.010
Zeppelin	801	fp-hivol	6	22.10.2003	24.10.2003	N3Z108	ng/m3	50	3295	0.03	*-0.0005614	*0.0800327	*0.1259857	*0.064988	*0.0157604	*0.0020338	0.08	0.02	*0.0046004
Zeppelin	801	fp-hivol	6	29.10.2003	31.10.2003	N3Z111	ng/m3	50	3184	0.11	*0.0035967	*0.0192186	*0.2719603	*0.0800411	*0.0180922	0.005	0.18	0.04	0.024
Zeppelin	801	fp-hivol	6	05.11.2003	07.11.2003	N3Z114	ng/m3	50	3125	0.32	0.007	*0.0926583	*0.4629049	*0.0918621	0.06	0.004	0.11	0.08	0.043
Zeppelin	801	fp-hivol	6	12.11.2003	14.11.2003	N3Z117	ng/m3	50	3269	0.19	*0.0026925	0.53	1.31	0.17	0.06	0.005	0.12	0.04	0.022
Zeppelin	801	fp-hivol	6	19.11.2003	21.11.2003	N3Z120	ng/m3	50	3201	0.31	0.005	*0.0390224	*0.3461233	*0.0711657	*0.0153247	0.003	0.11	0.04	0.043
Zeppelin	801	fp-hivol	6	26.11.2003	28.11.2003	N3Z123	ng/m3	50	3129	0.10	*0.0028229	*0.0221868	*0.2698166	*0.0563437	*0.0181638	*0.0003079	0.06	0.02	0.013
Zeppelin	801	fp-hivol	6	03.12.2003	05.12.2003	N3Z126	ng/m3	50	3325	0.16	0.007	0.11	*0.4218948	*0.0708406	*0.0270594	0.003	0.13	0.04	0.033
Zeppelin	801	fp-hivol	6	10.12.2003	12.12.2003	N3Z129	ng/m3	50	3088	2.98	0.081	0.28	3.25	0.18	0.12	0.016	0.47	0.16	0.694
Zeppelin	801	fp-hivol	6	17.12.2003	19.12.2003	N3Z132	ng/m3	50	3123	3.10	0.093	1.06	4.70	0.21	0.31	0.040	0.65	0.24	0.725
Zeppelin	801	fp-hivol	6	24.12.2003	26.12.2003	N3Z135	ng/m3	50	3428	0.72	0.023	*0.0955693	0.90	*-0.0421784	0.08	0.004	0.17	0.11	0.162
Zeppelin	801	fp-hivol	6	31.12.2003	02.01.2004	N3Z138	ng/m3	50	3346	0.28	0.013	*0.0146538	*0.3159828	*-0.0443955	0.04	0.006	0.15	0.04	0.069

*Målingene er lavere enn nedre kvantifiseringsgrense og rapporteres ikke akkreditert

Vedlegg 9

Organiske forbindelser i luft i Ny-Ålesund (O-2081)

Målerapport nr. O-2081

Oppdragsgiver: Statens forurensningstilsyn
Postboks 8100 Dep
0032 OSLO

Prosjekt nr.: O-93062

Prøvetaking:

Sted: Ny-Ålesund
Ansvar: NILU/Norsk Polarinstitutt
Kommentar:

Prøveinformasjon:

NILU prøvenr.	Kundens prøvermerking	Prøvetype	Prøven mottatt	Prøven analysert
03/44	30-12-1.1.02 0913-1020	Luft	08.01.03	24.1 - 18.3.03
03/296	1-3.1.03 1025-1006	"	10.03.03	1.4 - 7.8.03
03/298	6-8.1.03 0847-0850	"	10.03.03	1.4 - 7.8.03
03/301	13-15.1.03 0920-0830	"	10.03.03	1.4 - 7.8.03
03/304	20-22.1.03 0803-0908	"	10.03.03	3.4 - 7.8.03
03/308	29-31.1.03 0828-0814	"	10.03.03	3.4 - 7.8.03
03/310	3-5.2.03 0837-0850	"	10.03.03	3.4 - 12.9.03
03/313	10-12.2.03 0954-0833	"	10.03.03	3.4 - 7.8.03
03/315	14-16.2.03 0948-1028	"	10.03.03	7.4 - 1.9.03
03/320	26-28.2.03 0823 - 0853	"	10.03.03	7.4 - 1.9.03
03/463	3-5.3.03 0805 - 0708	"	30.04.03	19.5 - 6.8.03
03/466	10-12.3.03 0840 - 0829	"	30.04.03	19.5 - 6.8.03
03/489	17-19.3.03 1005 - 0911	"	30.04.03	19.5 - 7.8.03
03/473	26-28.3.03 1268 - 0914	"	30.04.03	19.5 - 7.8.03
03/476	2-4.4.03 0853 - 0737	"	30.04.03	21.5 - 7.8.03
03/478	7-9.04.03 0734 - 0813	"	30.04.03	21.5 - 7.8.03
03/481	14-16.4.03 0928 - 0733	"	30.04.03	21.5 - 7.8.03
03/834	18-22.4.03 1027 - 0748	"	04.06.03	18.8 - 1.9.03
03/836	25-27.4.03 0720 - 0931	"	04.06.03	18.8 - 1.9.03
03/838	30.4-2.5.03 0748 - 0704	"	04.06.03	18.8 - 1.9.03
03/840	5-7.5.03 0752-0658	"	"	20.08.03-29.4.04
03/843	12-14.5.03 0732-0901	"	"	"
03/846	19-21.5.03 0810-0731	"	"	"
03/849	26-28.5.03 0740-0651	"	"	"
03/1019	4-6.6.03 0712-0819	"	14.07.03	25.08.03 - 29.04.04
03/1022	11-13.6.03 0902-0732	"	"	"
03/1025	18-20.6.03 0700-0754	"	"	"
03/1028	25-27.6.03 0727-0726	"	"	"
03/1242	4-6.7.03 0735-1935	"	08.09.03	03.11.03 -29.04.04
03/1244	9-11.7.03 0800-0737	"	"	"
03/1247	16-18.7.03 0851-0736	"	"	"
03/1250	23-25.7.03 0756-0716	"	"	06.11.03 - 29.04.04
03/1254	1-3.8.03 0735-0913	"	"	"
04/1256	6-8.8.03 0754-0659	"	"	"
04/1259	13-15.8.03 0740-0849	"	"	"
03/1262	20-22.8.03 0804-0813	"	"	18.11.03 - 29.04.04
03/1265	27-29.8.03 0710-0735	"	"	"
03/1516	3-5.9.03 0753-0737	"	22.10.03	"

03/1519	10-12.9.03 0700-0702	Luft	22.10.03	18.11.03 – 29.04.04
03/1522	17-19.9.03 0808-0726	"	"	20.11.03 – 29.04.04
03/1525	24-26.9.03 0738-1000	"	"	"
03/1527	29.9-1.10.03 0722-0757	"	"	"
03/1756	8-10.10.03 0737-0917	"	24.11.03	09.02 – 29.04.04
03/1758	13-16.10.03 0650-0723	"	"	"
03/1761	20-22.10.03 0730-0850	"	"	11.02 – 29.04.04
03/1765	29-31.10.03 0948-0834	"	"	"
03/1768	5-7.11.03 1020-0905	"	"	"
04/106	12-14.11.03 0913-0937	"	19.01.04	"
04/109	19-21.11.03 0843-0836	"	"	"
04/112	26-28.11.03 0854-0751	"	"	16.02 – 29.04.04
04/115	3-5.12.03 0855-0848	"	"	"
04/118	10-12.12.03 1030-0852	"	"	"
04/121	17-19.12.03 0940-0845	"	"	18.02 – 29.04.04
04/124	24-26.12.03 0820-1106	"	"	"
04/127	31.12.03-02.01.04 0751-0951	"	"	"

Analysér:

Utført av: Norsk institutt for luftforskning
Postboks 100
N-2027 KJELLER

Målemetode: NILU-O-2 ("Bestemmelse av tungflyktige persistente organiske forbindelser – pesticider og PCB'er")

Måleusikkerhet: $\pm 20\%$

Kommentarer:

Godkjenning: Kjeller, 30. april 2004

Ole-Anders Braathen

Ole-Anders Braathen
Avd.direktør, Kjemisk analyse

Vedlegg: Pesticid analyser : 55 sider
PCB-analyser : 55 sider
HCH/DDT-analyser : 55 sider
Målerapporten og vedleggene omfatter totalt 167 sider

Måleresultatene gjelder bare de prøvene som er analysert. Denne rapporten skal ikke gjengis i utdrag, uten skriftlig godkjenning fra laboratoriet.

Results of PCB Analysis



Encl. to measuring report: O-2081
 NILU-Sample number: 03/44
 Customer: Amap 03
 Customers sample ID: 30.12.02-1.1.03 0913-1020
 : 160-155
 Sample type: Luft
 Sample amount: 1166 m3
 Concentration units: pg/m3
 Data files: DH344_PCB_04-02-2003

Kjeller, 12.09.03

Compound:		Concentration:	Recovery	TE (WHO)
Structure	IUPAC-no.	pg/m3	%	fg/m3
HCB		44,5	40	
2,2',5'-TriCB	18	2,28 b		
2,4,4'-TriCB	28	1,49 b	61	
2,4',5'-TriCB	31	1,38 b		
2',3,4'-TriCB	33	1,28 b		
3,4,4'-TriCB	37	0,20 b		
Sum-TriCB		9,54		
2,2',4,4'-TetCB	47	0,53 b		
2,2',5,5'-TetCB	52	0,87 b	60	
2,3,4,4'-TetCB	60	0,10 b		
2,3',4,4'-TetCB	66	0,30 b		
2,4,4',5'-TetCB	74	0,15 b		
Sum-TetCB		4,39		
2,2',4,4',5'-PenCB	99	0,14 b		
2,2',4,5,5'-PenCB	101	0,37 b	69	
2,3,3',4,4'-PenCB	105	< 0,01		0,00
2,3,4,4',5'-PenCB	114	< 0,01		0,01
2,3',4,4',5'-PenCB	118	0,22 b	81	0,02
2'3,3',4,5'-PenCB	122	< 0,01		
2',3,4,4',5'-PenCB	123	< 0,01		0,00
Sum-PenCB		1,21		
2,2',3,3',4,4'-HexCB	128	< 0,01		
2,2',3,4,4',5'-HexCB	138	0,19		
2,2',3,4,5,5'-HexCB	141	< 0,01		
2,2',3,4',5',6'-HexCB	149	0,20 b		
2,2',4,4',5,5'-HexCB	153	0,21 b	80	
2,3,3',4,4',5'-HexCB	156	< 0,01		0,01
2,3,3',4,4',5'-HexCB	157	< 0,01		0,01
2,3',4,4',5,5'-HexCB	167	< 0,01		0,00
Sum-HexCB		0,79		
2,2',3,3',4,4',5'-HepCB	170	< 0,01		
2,2',3,4,4',5,5'-HepCB	180	0,01	91	
2,2',3,4,4',5',6'-HepCB	183	< 0,01		
2,2',3,4',5,5',6'-HepCB	187	< 0,01		
2,3,3',4,4',5,5'-HepCB	189	< 0,01		0,00
Sum-HepCB		0,12		
2,2',3,3',4,4',5,5'-OctCB	194	< 0,01		
2,2',3,3',4,4',5,5',6'-NonCB	206	< 0,01		
DecaCB	209	< 0,01		
Sum 7 PCB		3,36		
Sum PCB		16,1		0,04

Sum 7 PCB: PCB(28+52+101+118+138+153+180)
 Sum PCB: Sum of observed PCB (mono- and di-CB are not included)
 <: Lower than detection limit at signal-to-noise 3 to 1
 i: Isotope ratio deviates more than 20 % from theoretical value.
 This may be due to instrumental noise or/and chemical interference
 b: Lower than 10 times method blank.
 g: Recovery is not according to NILUs quality criteria
 TE (WHO): 2378-TCDD toxicity equivalents according to the WHO model
 (M. Van den Berg et al., 1998)

4. versjon 27.08.2003 GSK

Results of PCB Analysis

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Encl. to measuring report: O-2081
 NILU-Sample number: 03/296
 Customer: Amap 03
 Customers sample ID: 1-3.1.03 1025-1006
 : 160-160
 Sample type: Luft
 Sample amount: 1150 m3
 Concentration units: pg/m3
 Data files: VA644_PCB_16-07-2003

Kjeller, 01.09.03

Compound:		Concentration:	Recovery	TE (WHO)
Structure	IUPAC-no.			
HCb		48,4	75	
2,2',5-TriCB	18	2,56		
2,4,4'-TriCB	28	1,25	57	
2,4',5-TriCB	31	1,24		
2',3,4-TriCB	33	0,96		
3,4,4'-TriCB	37	0,20		
Sum-TriCB		8,22		
2,2',4,4'-TetCB	47	0,27 b		
2,2',5,5'-TetCB	52	0,70 b	69	
2,3,4,4'-TetCB	60	< 0,01		
2,3',4,4'-TetCB	66	0,30 i		
2,4,4',5-TetCB	74	0,15 i		
Sum-TetCB		2,69		
2,2',4,4',5-PenCB	99	0,14		
2,2',4,5,5'-PenCB	101	0,37 b	73	
2,3,3',4,4'-PenCB	105	< 0,01		0,00
2,3,4,4',5-PenCB	114	< 0,01		0,01
2,3',4,4',5-PenCB	118	0,22 i	131	0,02
2',3,3',4,5-PenCB	122	< 0,01		
2',3,4,4',5-PenCB	123	< 0,01		0,00
Sum-PenCB		1,17		
2,2',3,3',4,4'-HexCB	128	< 0,02		
2,2',3,4,4',5'-HexCB	138	0,19 b		
2,2',3,4,5,5'-HexCB	141	< 0,02		
2,2',3,4',5',6-HexCB	149	0,20 bi		
2,2',4,4',5,5'-HexCB	153	0,42 b	82	
2,3,3',4,4',5-HexCB	156	< 0,02		0,01
2,3,3',4,4',5'-HexCB	157	< 0,02		0,01
2,3',4,4',5,5'-HexCB	167	< 0,02		0,00
Sum-HexCB		0,95		
2,2',3,3',4,4',5-HepCB	170	< 0,01		
2,2',3,4,4',5,5'-HepCB	180	0,02	111	
2,2',3,4,4',5',6-HepCB	183	0,11 i		
2,2',3,4',5,5',6-HepCB	187	0,13		
2,3,3',4,4',5,5'-HepCB	189	< 0,02		0,00
Sum-HepCB		0,23		
2,2',3,3',4,4',5,5'-OctCB	194	< 0,01		
2,2',3,3',4,4',5,5',6-NonCB	206	< 0,02		
DecaCB	209	< 0,01		
Sum 6 PCB		2,94		
Sum PCB		13,3		0,05

Sum 6 PCB: PCB(28+52+101+138+153+180)
 Sum PCB: Sum of observed PCB (mono- and di-CB are not included)
 <: Lower than detection limit at signal-to-noise 3 to 1
 i: Isotope ratio deviates more than 20 % from theoretical value.
 This may be due to instrumental noise or/and chemical interference
 b: Lower than 10 times method blank.
 g: Recovery is not according to NILUs quality criteria
 TE (WHO): 2378-TCDD toxicity equivalents according to the WHO model
 (M. Van den Berg et al., 1998)

3. Versjon 19.05.03 GSK

Results of PCB Analysis



Encl. to measuring report: O-2081
 NILU-Sample number: 03/298
 Customer: Amap 03
 Customers sample ID: 6-8.1.03 0847-0850
 : 160-159
 Sample type: Luft
 Sample amount: 1154 m3
 Concentration units: pg/m3
 Data files: VA644_PCB_16-07-2003

Kjeller, 01.09.03

Compound:		Concentration:	Recovery	TE (WHO)
Structure	IUPAC-no.	pg/m3	%	fg/m3
HCb		45,6	76	
2,2',5-TriCB	18	3,27		
2,4,4'-TriCB	28	1,62	57	
2,4',5-TriCB	31	1,51		
2',3,4-TriCB	33	1,28		
3,4,4'-TriCB	37	0,20		
Sum-TriCB		10,5		
2,2',4,4'-TetCB	47	0,40 b		
2,2',5,5'-TetCB	52	0,87 b	66	
2,3,4,4'-TetCB	60	0,10 i		
2,3',4,4'-TetCB	66	0,45		
2,4,4',5-TetCB	74	0,15 i		
Sum-TetCB		3,40		
2,2',4,4',5-PenCB	99	0,28		
2,2',4,5,5'-PenCB	101	0,73	72	
2,3,3',4,4'-PenCB	105	0,15		0,02
2,3,4,4',5-PenCB	114	< 0,01		0,01
2,3',4,4',5-PenCB	118	0,43	130 g	0,04
2',3,3',4,5-PenCB	122	< 0,01		
2',3,4,4',5-PenCB	123	< 0,01		0,00
Sum-PenCB		2,65		
2,2',3,3',4,4'-HexCB	128	0,21		
2,2',3,4,4',5'-HexCB	138	0,77		
2,2',3,4,5,5'-HexCB	141	0,24 i		
2,2',3,4',5',6-HexCB	149	0,59		
2,2',4,4',5,5'-HexCB	153	1,68	79	
2,3,3',4,4',5-HexCB	156	< 0,02		0,01
2,3,3',4,4',5'-HexCB	157	< 0,02		0,01
2,3',4,4',5,5'-HexCB	167	0,06		0,00
Sum-HexCB		4,12		
2,2',3,3',4,4',5-HepCB	170	0,08		
2,2',3,4,4',5,5'-HepCB	180	0,55	105	
2,2',3,4,4',5',6-HepCB	183	0,22		
2,2',3,4',5,5',6-HepCB	187	0,51		
2,3,3',4,4',5,5'-HepCB	189	< 0,01		0,00
Sum-HepCB		1,39		
2,2',3,3',4,4',5,5'-OctCB	194	0,09 i		
2,2',3,3',4,4',5,5',6-NonCB	206	0,07		
DecaCB	209	< 0,01		
Sum 6 PCB		6,22		
Sum PCB		22,2		0,09

Sum 6 PCB: PCB(28+52+101+138+153+180)

Sum PCB: Sum of observed PCB (mono- and di-CB are not included)

<: Lower than detection limit at signal-to-noise 3 to 1

i: Isotope ratio deviates more than 20 % from theoretical value.

This may be due to instrumental noise or/and chemical interference

b: Lower than 10 times method blank.

g: Recovery is not according to NILUs quality criteria

TE (WHO): 2378-TCDD toxicity equivalents according to the WHO model (M. Van den Berg et al., 1998)

Results of PCB Analysis

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Encl. to measuring report: O-2081
 NILU-Sample number: 03/301
 Customer: Amap 03
 Customers sample ID: 13-15.1.03 0920-0830
 : 160-150
 Sample type: Luft
 Sample amount: 1102 m3
 Concentration units: pg/m3
 Data files: VA644_PCB_1607-2003

Kjeller, 01.09.03

Compound:		IUPAC-no.	Concentration:		Recovery %	TE (WHO) fg/m3
Structure	pg/m3					
HCB			45,5		70	
2,2',5'-TriCB	18		2,56			
2,4,4'-TriCB	28		1,25		53	
2,4',5'-TriCB	31		1,10			
2',3,4'-TriCB	33		0,96			
3,4,4'-TriCB	37		0,10	i		
Sum-TriCB			7,82			
2,2',4,4'-TetCB	47		0,27	b		
2,2',5,5'-TetCB	52		0,70	b	69	
2,3,4,4'-TetCB	60	<	0,02			
2,3',4,4'-TetCB	66		0,30			
2,4,4',5'-TetCB	74		0,15			
Sum-TetCB			2,27			
2,2',4,4',5'-PenCB	99		0,14			
2,2',4,5,5'-PenCB	101		0,37	b	74	
2,3,3',4,4'-PenCB	105	<	0,02			0,00
2,3,4,4',5'-PenCB	114	<	0,02			0,01
2,3',4,4',5'-PenCB	118		0,43		146 g	0,04
2',3,3',4,5'-PenCB	122	<	0,02			
2',3,4,4',5'-PenCB	123	<	0,02			0,00
Sum-PenCB			1,13			
2,2',3,3',4,4'-HexCB	128	<	0,03			
2,2',3,4,4',5'-HexCB	138		0,58			
2,2',3,4,5,5'-HexCB	141		0,12			
2,2',3,4',5',6'-HexCB	149		0,29	b		
2,2',4,4',5,5'-HexCB	153		1,05		84	
2,3,3',4,4',5'-HexCB	156	<	0,01			0,01
2,3,3',4,4',5'-HexCB	157	<	0,02			0,01
2,3',4,4',5,5'-HexCB	167	<	0,02			0,00
Sum-HexCB			2,54			
2,2',3,3',4,4',5'-HepCB	170		0,08	i		
2,2',3,4,4',5,5'-HepCB	180		0,37		119	
2,2',3,4,4',5',6'-HepCB	183		0,11	i		
2,2',3,4',5,5',6'-HepCB	187		0,25	i		
2,3,3',4,4',5,5'-HepCB	189	<	0,02			0,00
Sum-HepCB			0,81			
2,2',3,3',4,4',5,5'-OctCB	194		0,09	i		
2,2',3,3',4,4',5,5',6'-NonCB	206		0,07	i		
DecaCB	209	<	0,01			
Sum 6 PCB			4,30			
Sum PCB			14,7			0,07

Sum 6 PCB: PCB(28+52+101+138+153+180)
 Sum PCB: Sum of observed PCB (mono- and di-CB are not included)
 <: Lower than detection limit at signal-to-noise 3 to 1
 i: Isotope ratio deviates more than 20 % from theoretical value.
 This may be due to instrumental noise or/and chemical interference
 b: Lower than 10 times method blank.
 g: Recovery is not according to NILUs quality criteria
 TE (WHO): 2378-TCDD toxicity equivalents according to the WHO model
 (M. Van den Berg et al., 1998)

3. Versjon 19.05.03 GSK

Results of PCB Analysis



Encl. to measuring report: O-2081
 NILU-Sample number: 03/304
 Customer: Amap 03
 Customers sample ID: 20-22.1.03 0803-0908
 : 160-150
 Sample type: Luft
 Sample amount: 1146 m3
 Concentration units: pg/m3
 Data files: VA644_PCB_16-07-2003

Kjeller, 01.09.03

Compound:		Concentration:	Recovery	TE (WHO)
Structure	IUPAC-no.	pg/m3	%	fg/m3
HCB		42,9	77	
2,2',5'-TriCB	18	4,41		
2,4,4'-TriCB	28	2,12	59	
2,4',5'-TriCB	31	2,20		
2',3,4'-TriCB	33	1,76		
3,4,4'-TriCB	37	0,29		
Sum-TriCB		14,8		
2,2',4,4'-TetCB	47	0,67 b		
2,2',5,5'-TetCB	52	1,39 b	70	
2,3,4,4'-TetCB	60	0,10		
2,3',4,4'-TetCB	66	0,75		
2,4,4',5'-TetCB	74	0,30		
Sum-TetCB		6,37		
2,2',4,4',5'-PenCB	99	0,28		
2,2',4,5,5'-PenCB	101	1,10	78	
2,3,3',4,4'-PenCB	105	< 0,01		0,00
2,3,4,4',5'-PenCB	114	< 0,01		0,01
2,3',4,4',5'-PenCB	118	0,22 i	127	0,02
2',3,3',4,5'-PenCB	122	< 0,02		
2',3,4,4',5'-PenCB	123	< 0,02		0,00
Sum-PenCB		3,12		
2,2',3,3',4,4'-HexCB	128	< 0,02		
2,2',3,4,4',5'-HexCB	138	0,19 bi		
2,2',3,4,5,5'-HexCB	141	< 0,02		
2,2',3,4',5',6'-HexCB	149	0,39		
2,2',4,4',5,5'-HexCB	153	0,42 b	69	
2,3,3',4,4',5'-HexCB	156	< 0,02		0,01
2,3,3',4,4',5'-HexCB	157	< 0,02		0,01
2,3',4,4',5,5'-HexCB	167	< 0,02		0,00
Sum-HexCB		1,90		
2,2',3,3',4,4',5'-HepCB	170	< 0,02		
2,2',3,4,4',5,5'-HepCB	180	0,01	98	
2,2',3,4,4',5',6'-HepCB	183	< 0,01		
2,2',3,4',5,5',6'-HepCB	187	0,13 i		
2,3,3',4,4',5,5'-HepCB	189	< 0,01		0,00
Sum-HepCB		0,12		
2,2',3,3',4,4',5,5'-OctCB	194	< 0,01		
2,2',3,3',4,4',5,5',6'-NonCB	206	< 0,02		
DecaCB	209	0,08		
Sum 6 PCB		5,24		
Sum PCB		26,5		0,05

Sum 6 PCB: PCB(28+52+101+138+153+180)

Sum PCB: Sum of observed PCB (mono- and di-CB are not included)

<: Lower than detection limit at signal-to-noise 3 to 1

i: Isotope ratio deviates more than 20 % from theoretical value.

This may be due to instrumental noise or/and chemical interference

b: Lower than 10 times method blank.

g: Recovery is not according to NILUs quality criteria

TE (WHO): 2378-TCDD toxicity equivalents according to the WHO model
 (M. Van den Berg et al., 1998)

Results of PCB Analysis

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Encl. to measuring report: O-2081
 NILU-Sample number: 03/308
 Customer: Amap 03
 Customers sample ID: 29-31.1.03 0828-0814
 : 160-160
 Sample type: Luft
 Sample amount: 1152 m3
 Concentration units: pg/m3
 Data files: VA644_PCB_16-07-2003

Kjeller, 01.09.03

Compound:		Concentration:	Recovery	TE (WHO)
Structure	IUPAC-no.	pg/m3	%	fg/m3
HCB		49,2	68	
2,2',5-TriCB	18	3,84		
2,4,4'-TriCB	28	1,99	58	
2,4',5-TriCB	31	1,79		
2',3,4-TriCB	33	1,44		
3,4,4'-TriCB	37	0,20 i		
Sum-TriCB		11,3		
2,2',4,4'-TetCB	47	0,53 b		
2,2',5,5'-TetCB	52	1,39 b	61	
2,3,4,4'-TetCB	60	0,20 i		
2,3',4,4'-TetCB	66	0,75		
2,4,4',5-TetCB	74	0,30 i		
Sum-TetCB		4,67		
2,2',4,4',5-PenCB	99	0,28		
2,2',4,5,5'-PenCB	101	0,64	77	
2,3,3',4,4'-PenCB	105	< 0,04		0,00
2,3,4,4',5-PenCB	114	< 0,04		0,02
2,3',4,4',5-PenCB	118	0,22 i	135 g	0,02
2'3,3',4,5-PenCB	122	< 0,04		
2',3,4,4',5-PenCB	123	< 0,04		0,00
Sum-PenCB		1,09		
2,2',3,3',4,4'-HexCB	128	< 0,07		
2,2',3,4,4',5'-HexCB	138	0,19 bi		
2,2',3,4,5,5'-HexCB	141	< 0,05		
2,2',3,4',5',6-HexCB	149	0,29 b		
2,2',4,4',5,5'-HexCB	153	0,21 bi	76	
2,3,3',4,4',5-HexCB	156	< 0,05		0,03
2,3,3',4,4',5'-HexCB	157	< 0,04		0,02
2,3',4,4',5,5'-HexCB	167	< 0,04		0,00
Sum-HexCB		0,79		
2,2',3,3',4,4',5-HepCB	170	< 0,05		
2,2',3,4,4',5,5'-HepCB	180	0,04	124	
2,2',3,4,4',5',6-HepCB	183	< 0,04		
2,2',3,4',5,5',6-HepCB	187	< 0,04		
2,3,3',4,4',5,5'-HepCB	189	< 0,04		0,00
Sum-HepCB		0,00		
2,2',3,3',4,4',5,5'-OctCB	194	< 0,05		
2,2',3,3',4,4',5,5',6-NonCB	206	< 0,06		
DecaCB	209	< 0,04		
Sum 6 PCB		4,47		
Sum PCB		18,0		0,10

Sum 6 PCB: PCB(28+52+101+138+153+180)
 Sum PCB: Sum of observed PCB (mono- and di-CB are not included)
 <: Lower than detection limit at signal-to-noise 3 to 1
 i: Isotope ratio deviates more than 20 % from theoretical value.
 This may be due to instrumental noise or/and chemical interference
 b: Lower than 10 times method blank.
 g: Recovery is not according to NILUs quality criteria
 TE (WHO): 2378-TCDD toxicity equivalents according to the WHO model
 (M. Van den Berg et al., 1998)

3. Versjon 19.05.03 GSK

Results of PCB Analysis



Encl. to measuring report: O-2081
 NILU-Sample number: 03/310
 Customer: Amap 03
 Customers sample ID: 3-5.2.03 0837-0850
 : 160-160
 Sample type: Luft
 Sample amount: 1162 m3
 Concentration units: pg/m3
 Data files: DH474_PCB_09-10-2003

Kjeller, 13.10.03

Compound:		Concentration:	Recovery	TE (WHO)
Structure	IUPAC-no.	pg/m3	%	fg/m3
HCB		44,2	53	
2,2',5'-TriCB	18	2,71		
2,4,4'-TriCB	28	1,61	63	
2,4',5'-TriCB	31	1,48		
2',3,4'-TriCB	33	1,19		
3,4,4'-TriCB	37	0,19		
Sum-TriCB		10,7		
2,2',4,4'-TetCB	47	0,59 b		
2,2',5,5'-TetCB	52	1,38 b	45	
2,3,4,4'-TetCB	60	0,14		
2,3',4,4'-TetCB	66	0,59		
2,4,4',5'-TetCB	74	0,25		
Sum-TetCB		6,72		
2,2',4,4',5'-PenCB	99	0,41		
2,2',4,5,5'-PenCB	101	1,13	45	
2,3,3',4,4'-PenCB	105	0,12		0,01
2,3,4,4',5'-PenCB	114	0,02		0,01
2,3',4,4',5'-PenCB	118	0,42	69	0,04
2',3,3',4,5'-PenCB	122	< 0,01		
2',3,4,4',5'-PenCB	123	< 0,01		0,00
Sum-PenCB		4,00		
2,2',3,3',4,4',5'-HexCB	128	0,06		
2,2',3,4,4',5'-HexCB	138	0,51		
2,2',3,4,5,5'-HexCB	141	0,08 b		
2,2',3,4',5',6'-HexCB	149	0,48		
2,2',4,4',5,5'-HexCB	153	0,70	63	
2,3,3',4,4',5'-HexCB	156	0,03 b		0,01
2,3,3',4,4',5'-HexCB	157	< 0,01		0,01
2,3',4,4',5,5'-HexCB	167	0,01		0,00
Sum-HexCB		2,90		
2,2',3,3',4,4',5'-HepCB	170	0,03 b		
2,2',3,4,4',5,5'-HepCB	180	0,14 b	69	
2,2',3,4,4',5',6'-HepCB	183	0,05 b		
2,2',3,4',5,5',6'-HepCB	187	0,11		
2,3,3',4,4',5,5'-HepCB	189	< 0,01		0,00
Sum-HepCB		0,43		
2,2',3,3',4,4',5,5'-OctCB	194	0,01 i		
2,2',3,3',4,4',5,5',6'-NonCB	206	< 0,01		
DecaCB	209	< 0,01		
Sum 7 PCB		5,89		
Sum PCB		24,8		0,08

Sum 7 PCB: PCB(28+52+101+118+138+153+180)
 Sum PCB: Sum of observed PCB (mono- and di-CB are not included)
 <: Lower than detection limit at signal-to-noise 3 to 1
 i: Isotope ratio deviates more than 20 % from theoretical value.
 This may be due to instrumental noise or/and chemical interference
 b: Lower than 10 times method blank.
 g: Recovery is not according to NILUs quality criteria
 TE (WHO): 2378-TCDD toxicity equivalents according to the WHO model
 (M. Van den Berg et al., 1998)

Results of PCB Analysis

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Encl. to measuring report: O-2081
 NILU-Sample number: 03/313
 Customer: Amap 03
 Customers sample ID: 10-12.2.03 0954-0833
 : 160-160
 Sample type: Luft
 Sample amount: 1125 m3
 Concentration units: pg/m3
 Data files: VA647_PCB_18-07-2003

Kjeller, 01.09.03

Compound:		Concentration:	Recovery	TE (WHO)
Structure	IUPAC-no.	pg/m3	%	fg/m3
HCB		44,8	57	
2,2',5'-TriCB	18	3,42		
2,4,4'-TriCB	28	1,99	62	
2,4',5'-TriCB	31	1,93		
2',3,4'-TriCB	33	1,44		
3,4,4'-TriCB	37	0,29		
Sum-TriCB		12,9		
2,2',4,4'-TetCB	47	0,67	b	
2,2',5,5'-TetCB	52	1,57	b	57
2,3,4,4'-TetCB	60	0,10		
2,3',4,4'-TetCB	66	0,60		
2,4,4',5'-TetCB	74	0,30		
Sum-TetCB		6,80		
2,2',4,4',5'-PenCB	99	0,28		
2,2',4,5,5'-PenCB	101	0,73	71	
2,3,3',4,4'-PenCB	105	0,15		0,02
2,3,4,4',5'-PenCB	114	< 0,01		0,01
2,3',4,4',5'-PenCB	118	0,43	82	0,04
2',3,3',4,5'-PenCB	122	< 0,01		
2',3,4,4',5'-PenCB	123	< 0,01		0,00
Sum-PenCB		3,43		
2,2',3,3',4,4',5'-HexCB	128	< 0,01		
2,2',3,4,4',5'-HexCB	138	0,38		
2,2',3,4,5,5'-HexCB	141	0,12		
2,2',3,4',5',6'-HexCB	149	0,39		
2,2',4,4',5,5'-HexCB	153	0,63	86	
2,3,3',4,4',5'-HexCB	156	< 0,01		0,01
2,3,3',4,4',5'-HexCB	157	< 0,01		0,01
2,3',4,4',5,5'-HexCB	167	< 0,01		0,00
Sum-HexCB		1,90		
2,2',3,3',4,4',5'-HepCB	170	< 0,01		
2,2',3,4,4',5,5'-HepCB	180	0,18	111	
2,2',3,4,4',5',6'-HepCB	183	< 0,01		
2,2',3,4',5,5',6'-HepCB	187	0,13		
2,3,3',4,4',5,5'-HepCB	189	< 0,01		0,00
Sum-HepCB		0,35		
2,2',3,3',4,4',5,5'-OctCB	194	< 0,01		
2,2',3,3',4,4',5,5',6'-NonCB	206	< 0,01		
DecaCB	209	< 0,01		
Sum 6 PCB		5,49		
Sum PCB		25,4		0,08

Sum 6 PCB: PCB(28+52+101+138+153+180)
 Sum PCB: Sum of observed PCB (mono- and di-CB are not included)
 <: Lower than detection limit at signal-to-noise 3 to 1
 i: Isotope ratio deviates more than 20 % from theoretical value.
 This may be due to instrumental noise or/and chemical interference
 b: Lower than 10 times method blank.
 g: Recovery is not according to NILUs quality criteria
 TE (WHO): 2378-TCDD toxicity equivalents according to the WHO model
 (M. Van den Berg et al., 1998)

3. Versjon 19.05.03 GSK

Results of PCB Analysis



Encl. to measuring report: O-2081
 NILU-Sample number: 03/315
 Customer: Amap 03
 Customers sample ID: 14-16.2.03 0948-1028
 : 160 - 180
 Sample type: Luft
 Sample amount: 1220 m3
 Concentration units: pg/m3
 Data files: DH423_PCB_21-05-2003

Kjeller, 01.09.03

Compound:		Concentration:	Recovery	TE (WHO)
Structure	IUPAC-no.	pg/m3	%	fg/m3
HCb		43,4	50	
2,2',5'-TriCB	18	2,56		
2,4,4'-TriCB	28	1,62	61	
2,4',5'-TriCB	31	1,51		
2',3,4'-TriCB	33	1,28		
3,4,4'-TriCB	37	0,20		
Sum-TriCB		9,15		
2,2',4,4'-TetCB	47	0,53	b	
2,2',5,5'-TetCB	52	1,05	b	68
2,3,4,4'-TetCB	60	0,10		
2,3',4,4'-TetCB	66	0,45		
2,4,4',5'-TetCB	74	0,15		
Sum-TetCB		2,12		
2,2',4,4',5'-PenCB	99	0,28		
2,2',4,5,5'-PenCB	101	0,64	74	
2,3,3',4,4'-PenCB	105	< 0,01		0,00
2,3,4,4',5'-PenCB	114	< 0,01		0,01
2,3',4,4',5'-PenCB	118	0,22	87	0,02
2',3,3',4,5'-PenCB	122	< 0,01		
2',3,4,4',5'-PenCB	123	< 0,01		0,00
Sum-PenCB		1,36		
2,2',3,3',4,4',5'-HexCB	128	< 0,01		
2,2',3,4,4',5'-HexCB	138	0,19	b	
2,2',3,4,5,5'-HexCB	141	< 0,01		
2,2',3,4',5',6'-HexCB	149	0,29		
2,2',4,4',5,5'-HexCB	153	0,42	b	78
2,3,3',4,4',5'-HexCB	156	< 0,01		0,01
2,3,3',4,4',5'-HexCB	157	< 0,01		0,01
2,3',4,4',5,5'-HexCB	167	< 0,01		0,00
Sum-HexCB		1,11		
2,2',3,3',4,4',5'-HepCB	170	< 0,01		
2,2',3,4,4',5,5'-HepCB	180	0,01	85	
2,2',3,4,4',5',6'-HepCB	183	< 0,01		
2,2',3,4',5,5',6'-HepCB	187	< 0,01		
2,3,3',4,4',5,5'-HepCB	189	< 0,01		0,00
Sum-HepCB		0,12		
2,2',3,3',4,4',5,5'-OctCB	194	< 0,01		
2,2',3,3',4,4',5,5',6'-NonCB	206	< 0,01		
DecaCB	209	< 0,01		
Sum 6 PCB		3,93		
Sum PCB		13,9		0,04

Sum 6 PCB: PCB(28+52+101+138+153+180)

Sum PCB: Sum of observed PCB (mono- and di-CB are not included)

<: Lower than detection limit at signal-to-noise 3 to 1

i: Isotope ratio deviates more than 20 % from theoretical value.

This may be due to instrumental noise or/and chemical interference

b: Lower than 10 times method blank.

g: Recovery is not according to NILUs quality criteria

TE (WHO): 2378-TCDD toxicity equivalents according to the WHO model
 (M. Van den Berg et al., 1998)

Results of PCB Analysis

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Encl. to measuring report: O-2081
 NILU-Sample number: 03/320
 Customer: Amap 03
 Customers sample ID: 26-28.2.03 0823-0853
 : 160-173
 Sample type: Luft
 Sample amount: 1249 m3
 Concentration units: pg/m3
 Data files: VA647_PCB_18-07-2003

Kjeller, 01.09.03

Compound:		Concentration:	Recovery	TE (WHO)
Structure	IUPAC-no.	pg/m3	%	fg/m3
HCB		41,6	55	
2,2',5'-TriCB	18	1,85		
2,4,4'-TriCB	28	0,87	55	
2,4',5'-TriCB	31	0,83		
2',3,4'-TriCB	33	0,64		
3,4,4'-TriCB	37	0,10		
Sum-TriCB		5,83		
2,2',4,4'-TetCB	47	0,40	bi	
2,2',5,5'-TetCB	52	0,87	b	53
2,3,4,4'-TetCB	60	< 0,01		
2,3',4,4'-TetCB	66	0,30		
2,4,4',5'-TetCB	74	0,15		
Sum-TetCB		3,26		
2,2',4,4',5'-PenCB	99	0,14		
2,2',4,5,5'-PenCB	101	0,37	77	
2,3,3',4,4'-PenCB	105	< 0,01		0,00
2,3,4,4',5'-PenCB	114	< 0,01		0,01
2,3',4,4',5'-PenCB	118	0,22	84	0,02
2'3,3',4,5'-PenCB	122	< 0,01		
2',3,4,4',5'-PenCB	123	< 0,01		0,00
Sum-PenCB		1,32		
2,2',3,3',4,4'-HexCB	128	< 0,01		
2,2',3,4,4',5'-HexCB	138	0,19	b	
2,2',3,4,5,5'-HexCB	141	< 0,01		
2,2',3,4',5',6'-HexCB	149	0,20	b	
2,2',4,4',5,5'-HexCB	153	0,42	93	
2,3,3',4,4',5'-HexCB	156	< 0,01		0,01
2,3,3',4,4',5'-HexCB	157	< 0,01		0,01
2,3',4,4',5,5'-HexCB	167	< 0,01		0,00
Sum-HexCB		1,27		
2,2',3,3',4,4',5'-HepCB	170	< 0,01		
2,2',3,4,4',5,5'-HepCB	180	0,18	i	111
2,2',3,4,4',5',6'-HepCB	183	< 0,01		
2,2',3,4',5,5',6'-HepCB	187	0,13		
2,3,3',4,4',5,5'-HepCB	189	< 0,01		0,00
Sum-HepCB		0,23		
2,2',3,3',4,4',5,5'-OctCB	194	< 0,01		
2,2',3,3',4,4',5,5',6'-NonCB	206	< 0,01		
DecaCB	209	< 0,01		
Sum 6 PCB		2,90		
Sum PCB		11,9		0,04

Sum 6 PCB: PCB(28+52+101+138+153+180)
 Sum PCB: Sum of observed PCB (mono- and di-CB are not included)
 <: Lower than detection limit at signal-to-noise 3 to 1
 i: Isotope ratio deviates more than 20 % from theoretical value.
 This may be due to instrumental noise or/and chemical interference
 b: Lower than 10 times method blank.
 g: Recovery is not according to NILUs quality criteria
 TE (WHO): 2378-TCDD toxicity equivalents according to the WHO model
 (M. Van den Berg et al., 1998)

3. Versjon 19.05.03 GSK

Results of PCB Analysis



Encl. to measuring report: O-2081
 NILU-Sample number: 03/463
 Customer: Amap 03
 Customers sample ID: 3-5.3.03 0805-0708
 : 160-162
 Sample type: Luft
 Sample amount: 1140 m3
 Concentration units: pg/m3
 Data files: VA644_PCB_16-07-2003

Kjeller, 01.09.03

Compound:		Concentration:	Recovery	TE (WHO)
Structure	IUPAC-no.	pg/m3	%	fg/m3
HCb		44,5	65	
2,2',5-TriCB	18	3,70		
2,4,4'-TriCB	28	2,12	50	
2,4',5-TriCB	31	2,06		
2',3,4-TriCB	33	1,60		
3,4,4'-TriCB	37	0,20	i	
Sum-TriCB		13,5		
2,2',4,4'-TetCB	47	0,80		
2,2',5,5'-TetCB	52	1,57	61	
2,3,4,4'-TetCB	60	0,10	i	
2,3',4,4'-TetCB	66	1,05		
2,4,4',5-TetCB	74	0,30		
Sum-TetCB		8,35		
2,2',4,4',5-PenCB	99	0,28		
2,2',4,5,5'-PenCB	101	0,83	67	
2,3,3',4,4'-PenCB	105	< 0,01		0,00
2,3,4,4',5-PenCB	114	< 0,01		0,01
2,3',4,4',5-PenCB	118	0,22	132 g	0,02
2'3,3',4,5-PenCB	122	< 0,01		
2',3,4,4',5-PenCB	123	< 0,01		0,00
Sum-PenCB		2,41		
2,2',3,3',4,4'-HexCB	128	< 0,02		
2,2',3,4,4',5'-HexCB	138	0,19	bi	
2,2',3,4,5,5'-HexCB	141	< 0,02		
2,2',3,4',5',6-HexCB	149	0,39		
2,2',4,4',5,5'-HexCB	153	0,42	b	69
2,3,3',4,4',5-HexCB	156	< 0,02		0,01
2,3,3',4,4',5'-HexCB	157	< 0,01		0,01
2,3',4,4',5,5'-HexCB	167	< 0,01		0,00
Sum-HexCB		1,90		
2,2',3,3',4,4',5-HepCB	170	< 0,02		
2,2',3,4,4',5,5'-HepCB	180	0,01	108	
2,2',3,4,4',5',6-HepCB	183	< 0,01		
2,2',3,4',5,5',6-HepCB	187	< 0,01		
2,3,3',4,4',5,5'-HepCB	189	< 0,01		0,00
Sum-HepCB		0,12		
2,2',3,3',4,4',5,5'-OctCB	194	< 0,01		
2,2',3,3',4,4',5,5',6-NonCB	206	< 0,01		
DecaCB	209	< 0,01		
Sum 6 PCB		5,13		
Sum PCB		26,3		0,04

Sum 6 PCB: PCB(28+52+101+138+153+180)

Sum PCB: Sum of observed PCB (mono- and di-CB are not included)

<: Lower than detection limit at signal-to-noise 3 to 1

i: Isotope ratio deviates more than 20 % from theoretical value.

This may be due to instrumental noise or/and chemical interference

b: Lower than 10 times method blank.

g: Recovery is not according to NILUs quality criteria

TE (WHO): 2378-TCDD toxicity equivalents according to the WHO model
 (M. Van den Berg et al., 1998)

Results of PCB Analysis



Encl. to measuring report: O-2081
 NILU-Sample number: 03/466
 Customer: Amap 03
 Customers sample ID: 10-12.3.03 0840-0829
 : 160-163
 Sample type: Luft
 Sample amount: 1159 m3
 Concentration units: pg/m3
 Data files: VA644_PCB_16-07-2003

Kjeller, 01.09.03

Compound:		Concentration:	Recovery	TE (WHO)
Structure	IUPAC-no.	pg/m3	%	fg/m3
HCB		42,2	64	
2,2',5-TriCB	18	2,70		
2,4,4'-TriCB	28	1,37	51	
2,4',5-TriCB	31	1,24		
2',3,4-TriCB	33	0,96		
3,4,4'-TriCB	37	0,10		
Sum-TriCB		9,28		
2,2',4,4'-TetCB	47	0,53 b		
2,2',5,5'-TetCB	52	0,87 b	60	
2,3,4,4'-TetCB	60	0,10		
2,3',4,4'-TetCB	66	0,60		
2,4,4',5-TetCB	74	0,15		
Sum-TetCB		4,81		
2,2',4,4',5-PenCB	99	0,14		
2,2',4,5,5'-PenCB	101	0,46	67	
2,3,3',4,4'-PenCB	105	< 0,01		0,00
2,3,4,4',5-PenCB	114	< 0,01		0,01
2,3',4,4',5-PenCB	118	0,22 i	137 g	0,02
2'3,3',4,5-PenCB	122	< 0,01		
2',3,4,4',5-PenCB	123	< 0,01		0,00
Sum-PenCB		1,28		
2,2',3,3',4,4'-HexCB	128	< 0,01		
2,2',3,4,4',5'-HexCB	138	0,19 bi		
2,2',3,4,5,5'-HexCB	141	< 0,01		
2,2',3,4',5',6-HexCB	149	0,20 bi		
2,2',4,4',5,5'-HexCB	153	0,21 bi	69	
2,3,3',4,4',5-HexCB	156	< 0,01		0,01
2,3,3',4,4',5'-HexCB	157	< 0,01		0,01
2,3',4,4',5,5'-HexCB	167	< 0,01		0,00
Sum-HexCB		0,79		
2,2',3,3',4,4',5-HepCB	170	< 0,01		
2,2',3,4,4',5,5'-HepCB	180	< 0,01	98	
2,2',3,4,4',5',6-HepCB	183	< 0,01		
2,2',3,4',5,5',6-HepCB	187	< 0,01		
2,3,3',4,4',5,5'-HepCB	189	< 0,01		0,00
Sum-HepCB		0,12		
2,2',3,3',4,4',5,5'-OctCB	194	< 0,01		
2,2',3,3',4,4',5,5',6-NonCB	206	< 0,01		
DecaCB	209	< 0,01		
Sum 6 PCB		3,11		
Sum PCB		16,3		0,04

Sum 6 PCB: PCB(28+52+101+138+153+180)
 Sum PCB: Sum of observed PCB (mono- and di-CB are not included)
 <: Lower than detection limit at signal-to-noise 3 to 1
 i: Isotope ratio deviates more than 20 % from theoretical value.
 This may be due to instrumental noise or/and chemical interference
 b: Lower than 10 times method blank.
 g: Recovery is not according to NILUs quality criteria
 TE (WHO): 2378-TCDD toxicity equivalents according to the WHO model
 (M. Van den Berg et al., 1998)

3. Versjon 19.05.03 GSK

Results of PCB Analysis



Encl. to measuring report: O-2081
 NILU-Sample number: 03/469
 Customer: Amap 03
 Customers sample ID: 17-19.3.03 1005-0911
 : 160-159
 Sample type: Luft
 Sample amount: 1133 m3
 Concentration units: pg/m3
 Data files: VA647_PCB_18-07-2003

Kjeller, 01.09.03

Compound:		Concentration:	Recovery	TE (WHO)
Structure	IUPAC-no.	pg/m3	%	fg/m3
HCB		44,5	64	
2,2',5'-TriCB	18	2,85		
2,4,4'-TriCB	28	1,37	59	
2,4',5'-TriCB	31	1,24		
2',3,4'-TriCB	33	0,96		
3,4,4'-TriCB	37	0,10		
Sum-TriCB		9,28		
2,2',4,4'-TetCB	47	0,53 b		
2,2',5,5'-TetCB	52	1,22 b	60	
2,3,4,4'-TetCB	60	< 0,01		
2,3',4,4'-TetCB	66	0,30		
2,4,4',5'-TetCB	74	0,15		
Sum-TetCB		4,11		
2,2',4,4',5'-PenCB	99	0,14		
2,2',4,5,5'-PenCB	101	0,46	73	
2,3,3',4,4'-PenCB	105	< 0,01		0,00
2,3,4,4',5'-PenCB	114	< 0,01		0,01
2,3',4,4',5'-PenCB	118	0,22	77	0,02
2'3,3',4,5'-PenCB	122	< 0,01		
2',3,4,4',5'-PenCB	123	< 0,01		0,00
Sum-PenCB		1,56		
2,2',3,3',4,4'-HexCB	128	< 0,01		
2,2',3,4,4',5'-HexCB	138	0,19 b		
2,2',3,4,5,5'-HexCB	141	< 0,01		
2,2',3,4',5',6'-HexCB	149	0,20 bi		
2,2',4,4',5,5'-HexCB	153	0,21 b	85	
2,3,3',4,4',5'-HexCB	156	< 0,01		0,01
2,3,3',4,4',5'-HexCB	157	< 0,01		0,01
2,3',4,4',5,5'-HexCB	167	< 0,01		0,00
Sum-HexCB		0,79		
2,2',3,3',4,4',5'-HepCB	170	< 0,01		
2,2',3,4,4',5,5'-HepCB	180	< 0,01	101	
2,2',3,4,4',5',6'-HepCB	183	< 0,01		
2,2',3,4',5,5',6'-HepCB	187	< 0,01		
2,3,3',4,4',5,5'-HepCB	189	< 0,01		0,00
Sum-HepCB		0,12		
2,2',3,3',4,4',5,5'-OctCB	194	< 0,01		
2,2',3,3',4,4',5,5',6'-NonCB	206	< 0,01		
DecaCB	209	< 0,01		
Sum 6 PCB		3,46		
Sum PCB		15,9		0,04

Sum 6 PCB: PCB(28+52+101+138+153+180)
 Sum PCB: Sum of observed PCB (mono- and di-CB are not included)
 <: Lower than detection limit at signal-to-noise 3 to 1
 i: Isotope ratio deviates more than 20 % from theoretical value.
 This may be due to instrumental noise or/and chemical interference
 b: Lower than 10 times method blank.
 g: Recovery is not according to NILUs quality criteria
 TE (WHO): 2378-TCDD toxicity equivalents according to the WHO model
 (M. Van den Berg et al., 1998)

3. Versjon 19.05.03 GSK

Results of PCB Analysis

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Encl. to measuring report: O-2081
 NILU-Sample number: 03/473
 Customer: Amap 03
 Customers sample ID: 26-28.3.03 1258-0914
 : 160-162
 Sample type: Luft
 Sample amount: 1058 m3
 Concentration units: pg/m3
 Data files: VA647_PCB_18-07-2003

Kjeller, 01.09.03

Compound:		Concentration:	Recovery	TE (WHO)
Structure	IUPAC-no.	pg/m3	%	fg/m3
HCB		46,2	54	
2,2',5'-TriCB	18	3,27		
2,4,4'-TriCB	28	1,87	51	
2,4',5'-TriCB	31	1,79		
2',3,4'-TriCB	33	1,44		
3,4,4'-TriCB	37	0,20	i	
Sum-TriCB		12,2		
2,2',4,4'-TetCB	47	0,67	b	
2,2',5,5'-TetCB	52	1,39	b	45
2,3,4,4'-TetCB	60	0,10		
2,3',4,4'-TetCB	66	0,60		
2,4,4',5'-TetCB	74	0,30		
Sum-TetCB		6,23		
2,2',4,4',5'-PenCB	99	0,14		
2,2',4,5,5'-PenCB	101	0,46	66	
2,3,3',4,4'-PenCB	105	< 0,01		0,00
2,3,4,4',5'-PenCB	114	< 0,01		0,01
2,3',4,4',5'-PenCB	118	0,22	75	0,02
2',3,3',4,5'-PenCB	122	< 0,01		
2',3,4,4',5'-PenCB	123	< 0,01		0,00
Sum-PenCB		1,71		
2,2',3,3',4,4'-HexCB	128	< 0,01		
2,2',3,4,4',5'-HexCB	138	0,19	b	
2,2',3,4,5,5'-HexCB	141	< 0,01		
2,2',3,4',5',6'-HexCB	149	0,20	b	
2,2',4,4',5,5'-HexCB	153	0,21	b	76
2,3,3',4,4',5'-HexCB	156	< 0,01		0,01
2,3,3',4,4',5'-HexCB	157	< 0,01		0,01
2,3',4,4',5,5'-HexCB	167	< 0,01		0,00
Sum-HexCB		1,11		
2,2',3,3',4,4',5'-HepCB	170	< 0,01		
2,2',3,4,4',5,5'-HepCB	180	0,01	90	
2,2',3,4,4',5',6'-HepCB	183	< 0,01		
2,2',3,4',5,5',6'-HepCB	187	< 0,01		
2,3,3',4,4',5,5'-HepCB	189	< 0,01		0,00
Sum-HepCB		0,12		
2,2',3,3',4,4',5,5'-OctCB	194	< 0,01		
2,2',3,3',4,4',5,5',6'-NonCB	206	< 0,01		
DecaCB	209	< 0,01		
Sum 6 PCB		4,13		
Sum PCB		21,4		0,04

Sum 6 PCB: PCB(28+52+101+138+153+180)
 Sum PCB: Sum of observed PCB (mono- and di-CB are not included)
 <: Lower than detection limit at signal-to-noise 3 to 1
 i: Isotope ratio deviates more than 20 % from theoretical value.
 This may be due to instrumental noise or/and chemical interference
 b: Lower than 10 times method blank.
 g: Recovery is not according to NILUs quality criteria
 TE (WHO): 2378-TCDD toxicity equivalents according to the WHO model
 (M. Van den Berg et al., 1998)

3. Versjon 19.05.03 GSK

Results of PCB Analysis



Encl. to measuring report: O-2081
 NILU-Sample number: 03/476
 Customer: Amap 03
 Customers sample ID: 2-4.4.03 0853-0737
 : 160-162
 Sample type: Luft
 Sample amount: 1096 m3
 Concentration units: pg/m3
 Data files: VA647_PCB_18-07-2003

Kjeller, 01.09.03

Compound:		Concentration:	Recovery	TE (WHO)
Structure	IUPAC-no.	pg/m3	%	fg/m3
HCb		47,5	58	
2,2',5'-TriCB	18	2,85		
2,4,4'-TriCB	28	1,49	54	
2,4',5'-TriCB	31	1,38		
2',3,4'-TriCB	33	1,12		
3,4,4'-TriCB	37	0,10		
Sum-TriCB		9,68		
2,2',4,4'-TetCB	47	0,53 b		
2,2',5,5'-TetCB	52	1,22 b	53	
2,3,4,4'-TetCB	60	< 0,01		
2,3',4,4'-TetCB	66	0,45		
2,4,4',5'-TetCB	74	0,15		
Sum-TetCB		5,10		
2,2',4,4',5'-PenCB	99	0,28		
2,2',4,5,5'-PenCB	101	0,46	69	
2,3,3',4,4'-PenCB	105	< 0,01		0,00
2,3,4,4',5'-PenCB	114	< 0,01		0,01
2,3',4,4',5'-PenCB	118	0,22	75	0,02
2',3,3',4,5'-PenCB	122	< 0,01		
2',3,4,4',5'-PenCB	123	< 0,01		0,00
Sum-PenCB		1,56		
2,2',3,3',4,4'-HexCB	128	< 0,01		
2,2',3,4,4',5'-HexCB	138	0,19 b		
2,2',3,4,5,5'-HexCB	141	< 0,01		
2,2',3,4',5',6'-HexCB	149	0,20 bi		
2,2',4,4',5,5'-HexCB	153	0,21 b	80	
2,3,3',4,4',5'-HexCB	156	< 0,01		0,01
2,3,3',4,4',5'-HexCB	157	< 0,01		0,01
2,3',4,4',5,5'-HexCB	167	< 0,01		0,00
Sum-HexCB		0,95		
2,2',3,3',4,4',5'-HepCB	170	< 0,01		
2,2',3,4,4',5,5'-HepCB	180	0,01	103	
2,2',3,4,4',5',6'-HepCB	183	< 0,01		
2,2',3,4',5,5',6'-HepCB	187	< 0,01		
2,3,3',4,4',5,5'-HepCB	189	< 0,01		0,00
Sum-HepCB		0,12		
2,2',3,3',4,4',5,5'-OctCB	194	< 0,01		
2,2',3,3',4,4',5,5',6'-NonCB	206	< 0,01		
DecaCB	209	< 0,01		
Sum 6 PCB		3,58		
Sum PCB		17,4		0,04

Sum 6 PCB: PCB(28+52+101+138+153+180)

Sum PCB: Sum of observed PCB (mono- and di-CB are not included)

<: Lower than detection limit at signal-to-noise 3 to 1

i: Isotope ratio deviates more than 20 % from theoretical value.

This may be due to instrumental noise or/and chemical interference

b: Lower than 10 times method blank.

g: Recovery is not according to NILUs quality criteria

TE (WHO): 2378-TCDD toxicity equivalents according to the WHO model
 (M. Van den Berg et al., 1998)

Results of PCB Analysis

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Encl. to measuring report: O-2081
 NILU-Sample number: 03/478
 Customer: Amap 03
 Customers sample ID: 7-9.4.03 0734-0813
 : 160-160
 Sample type: Luft
 Sample amount: 1174 m3
 Concentration units: pg/m3
 Data files: VA647_PCB_18-07-2003

Kjeller, 01.09.03

Compound:		Concentration:	Recovery	TE (WHO)
Structure	IUPAC-no.	pg/m3	%	fg/m3
HCB		13,9	55	
2,2',5-TriCB	18	1,42		
2,4,4'-TriCB	28	1,12	55	
2,4',5-TriCB	31	1,10		
2',3,4-TriCB	33	0,96		
3,4,4'-TriCB	37	0,20	i	
Sum-TriCB		6,36		
2,2',4,4'-TetCB	47	0,40	bi	
2,2',5,5'-TetCB	52	0,70	b	58
2,3,4,4'-TetCB	60	0,10		
2,3',4,4'-TetCB	66	0,30		
2,4,4',5-TetCB	74	0,15		
Sum-TetCB		3,26		
2,2',4,4',5-PenCB	99	0,14		
2,2',4,5,5'-PenCB	101	0,46	63	
2,3,3',4,4'-PenCB	105	0,15		0,02
2,3,4,4',5-PenCB	114	< 0,01		0,01
2,3',4,4',5-PenCB	118	0,22	56	0,02
2'3,3',4,5-PenCB	122	< 0,01		
2',3,4,4',5-PenCB	123	< 0,01		0,00
Sum-PenCB		2,18		
2,2',3,3',4,4'-HexCB	128	< 0,01		
2,2',3,4,4',5'-HexCB	138	0,19	b	
2,2',3,4,5,5'-HexCB	141	< 0,01		
2,2',3,4',5',6-HexCB	149	0,20	b	
2,2',4,4',5,5'-HexCB	153	0,21	b	71
2,3,3',4,4',5-HexCB	156	< 0,01		0,01
2,3,3',4,4',5'-HexCB	157	< 0,01		0,01
2,3',4,4',5,5'-HexCB	167	< 0,01		0,00
Sum-HexCB		0,95		
2,2',3,3',4,4',5-HepCB	170	< 0,01		
2,2',3,4,4',5,5'-HepCB	180	0,01	71	
2,2',3,4,4',5',6-HepCB	183	< 0,01		
2,2',3,4',5,5',6-HepCB	187	< 0,01		
2,3,3',4,4',5,5'-HepCB	189	< 0,01		0,00
Sum-HepCB		0,12		
2,2',3,3',4,4',5,5'-OctCB	194	< 0,01		
2,2',3,3',4,4',5,5',6-NonCB	206	< 0,01		
DecaCB	209	< 0,01		
Sum 6 PCB		2,69		
Sum PCB		12,9		0,06

Sum 6 PCB: PCB(28+52+101+138+153+180)
 Sum PCB: Sum of observed PCB (mono- and di-CB are not included)
 <: Lower than detection limit at signal-to-noise 3 to 1
 i: Isotope ratio deviates more than 20 % from theoretical value.
 This may be due to instrumental noise or/and chemical interference
 b: Lower than 10 times method blank.
 g: Recovery is not according to NILUs quality criteria
 TE (WHO): 2378-TCDD toxicity equivalents according to the WHO model
 (M. Van den Berg et al., 1998)

3. Versjon 19.05.03 GSK

Results of PCB Analysis



Encl. to measuring report: O-2081
 NILU-Sample number: 03/481
 Customer: Amap-03
 Customers sample ID: 14-16.4.03 0928-0733
 : 160-146
 Sample type: Luft
 Sample amount: 1063 m3
 Concentration units: pg/m3
 Data files: VA647_PCB_18-07-2003

Kjeller, 01.09.03

Compound:		Concentration:	Recovery	TE (WHO)
Structure	IUPAC-no.	pg/m3	%	fg/m3
HCB		44,8	72	
2,2',5'-TriCB	18	5,41		
2,4,4'-TriCB	28	3,98	62	
2,4',5'-TriCB	31	3,85		
2',3,4'-TriCB	33	3,36		
3,4,4'-TriCB	37	0,39		
Sum-TriCB		23,6		
2,2',4,4'-TetCB	47	0,93		
2,2',5,5'-TetCB	52	1,74	b	66
2,3,4,4'-TetCB	60	0,10	i	
2,3',4,4'-TetCB	66	0,60		
2,4,4',5'-TetCB	74	0,30		
Sum-TetCB		7,93		
2,2',4,4',5'-PenCB	99	0,28		
2,2',4,5,5'-PenCB	101	0,64	69	
2,3,3',4,4'-PenCB	105	0,15	i	0,02
2,3,4,4',5'-PenCB	114	< 0,01		0,01
2,3',4,4',5'-PenCB	118	0,22	64	0,02
2',3,3',4,5'-PenCB	122	< 0,01		
2',3,4,4',5'-PenCB	123	< 0,01		0,00
Sum-PenCB		2,53		
2,2',3,3',4,4',5'-HexCB	128	< 0,02		
2,2',3,4,4',5'-HexCB	138	0,19	b	
2,2',3,4,5,5'-HexCB	141	< 0,01		
2,2',3,4',5',6'-HexCB	149	0,39		
2,2',4,4',5,5'-HexCB	153	0,42	b	71
2,3,3',4,4',5'-HexCB	156	< 0,01		0,01
2,3,3',4,4',5'-HexCB	157	< 0,01		0,01
2,3',4,4',5,5'-HexCB	167	< 0,01		0,00
Sum-HexCB		1,74		
2,2',3,3',4,4',5'-HepCB	170	< 0,01		
2,2',3,4,4',5,5'-HepCB	180	0,01	76	
2,2',3,4,4',5',6'-HepCB	183	< 0,01		
2,2',3,4',5,5',6'-HepCB	187	< 0,01		
2,3,3',4,4',5,5'-HepCB	189	< 0,01		0,00
Sum-HepCB		0,35		
2,2',3,3',4,4',5,5'-OctCB	194	< 0,01		
2,2',3,3',4,4',5,5',6'-NonCB	206	< 0,01		
DecaCB	209	< 0,01		
Sum 6 PCB		6,99		
Sum PCB		36,2		0,06

Sum 6 PCB: PCB(28+52+101+138+153+180)

Sum PCB: Sum of observed PCB (mono- and di-CB are not included)

<: Lower than detection limit at signal-to-noise 3 to 1

i: Isotope ratio deviates more than 20 % from theoretical value.

This may be due to instrumental noise or/and chemical interference

b: Lower than 10 times method blank.

g: Recovery is not according to NILUs quality criteria

TE (WHO): 2378-TCDD toxicity equivalents according to the WHO model
 (M. Van den Berg et al., 1998)

Results of PCB Analysis

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Encl. to measuring report: O-2081
 NILU-Sample number: 03/834
 Customer: Amap 03
 Customers sample ID: 18-22.4.03 1027-0748
 : 160-166
 Sample type: Luft
 Sample amount: 2298 m3
 Concentration units: pg/m3
 Data files: DH453_PCB_26-08-2003

Kjeller, 28.08.03

Compound:		Concentration:	Recovery	TE (WHO)
Structure	IUPAC-no.	pg/m3	%	fg/m3
HCb		48,5	58	
2,2',5'-TriCB	18	2,15		
2,4,4'-TriCB	28	1,23	60	
2,4',5'-TriCB	31	1,18		
2',3,4'-TriCB	33	0,96		
3,4,4'-TriCB	37	0,11		
Sum-TriCB		8,17		
2,2',4,4'-TetCB	47	0,39		
2,2',5,5'-TetCB	52	0,82	54	
2,3,4,4'-TetCB	60	0,04		
2,3',4,4'-TetCB	66	0,27		
2,4,4',5'-TetCB	74	0,12		
Sum-TetCB		3,64		
2,2',4,4',5'-PenCB	99	0,14		
2,2',4,5,5'-PenCB	101	0,40	53	
2,3,3',4,4'-PenCB	105	0,02		0,00
2,3,4,4',5'-PenCB	114	< 0,01		0,01
2,3',4,4',5'-PenCB	118	0,12	91	0,01
2'3,3',4,5'-PenCB	122	< 0,01		
2',3,4,4',5'-PenCB	123	< 0,01		0,00
Sum-PenCB		1,11		
2,2',3,3',4,4'-HexCB	128	0,02		
2,2',3,4,4',5'-HexCB	138	0,11	60	
2,2',3,4,5,5'-HexCB	141	0,02		
2,2',3,4',5',6'-HexCB	149	0,20		
2,2',4,4',5,5'-HexCB	153	0,16		
2,3,3',4,4',5'-HexCB	156	< 0,01		0,01
2,3,3',4,4',5'-HexCB	157	< 0,01		0,01
2,3',4,4',5,5'-HexCB	167	< 0,01		0,00
Sum-HexCB		0,85		
2,2',3,3',4,4',5'-HepCB	170	0,01		
2,2',3,4,4',5,5'-HepCB	180	0,04	57	
2,2',3,4,4',5',6'-HepCB	183	0,02		
2,2',3,4',5,5',6'-HepCB	187	0,04		
2,3,3',4,4',5,5'-HepCB	189	< 0,01		0,00
Sum-HepCB		0,14		
2,2',3,3',4,4',5,5'-OctCB	194	< 0,01		
2,2',3,3',4,4',5,5',6'-NonCB	206	< 0,01		
DecaCB	209	< 0,01		
Sum 6 PCB		2,76		
Sum PCB		13,9		0,03

Sum 6 PCB: PCB(28+52+101+138+153+180)
 Sum PCB: Sum of observed PCB (mono- and di-CB are not included)
 <: Lower than detection limit at signal-to-noise 3 to 1
 i: Isotope ratio deviates more than 20 % from theoretical value.
 This may be due to instrumental noise or/and chemical interference
 b: Lower than 10 times method blank.
 g: Recovery is not according to NILUs quality criteria
 TE (WHO): 2378-TCDD toxicity equivalents according to the WHO model
 (M. Van den Berg et al., 1998)

3. Versjon 19.05.03 GSK

Results of PCB Analysis



Encl. to measuring report: O-2081
 NILU-Sample number: 03/836
 Customer: Amap 03
 Customers sample ID: 25-27.4.03 0720-0931
 : 160-159
 Sample type: Luft
 Sample amount: 1207 m3
 Concentration units: pg/m3
 Data files: DH454_PCB_27-08-2003

Kjeller, 01.09.03

Compound:		Concentration:	Recovery	TE (WHO)
Structure	IUPAC-no.	pg/m3	%	fg/m3
HCB		48,1	52	
2,2',5'-TriCB	18	2,13		
2,4,4'-TriCB	28	1,48	57	
2,4',5'-TriCB	31	1,42		
2',3,4'-TriCB	33	1,26		
3,4,4'-TriCB	37	0,15		
Sum-TriCB		9,23		
2,2',4,4'-TetCB	47	0,44 b		
2,2',5,5'-TetCB	52	0,84 b	55	
2,3,4,4'-TetCB	60	0,05		
2,3',4,4'-TetCB	66	0,28		
2,4,4',5'-TetCB	74	0,14		
Sum-TetCB		3,92		
2,2',4,4',5'-PenCB	99	0,14		
2,2',4,5,5'-PenCB	101	0,38	57	
2,3,3',4,4'-PenCB	105	0,02		0,00
2,3,4,4',5'-PenCB	114	< 0,01		0,01
2,3',4,4',5'-PenCB	118	0,11	89	0,01
2',3,3',4,5'-PenCB	122	< 0,01		
2',3,4,4',5'-PenCB	123	< 0,01		0,00
Sum-PenCB		1,20		
2,2',3,3',4,4'-HexCB	128	0,01		
2,2',3,4,4',5'-HexCB	138	0,09 b		
2,2',3,4,5,5'-HexCB	141	0,03		
2,2',3,4',5',6'-HexCB	149	0,18 b		
2,2',4,4',5,5'-HexCB	153	0,14 b	60	
2,3,3',4,4',5'-HexCB	156	< 0,01		0,01
2,3,3',4,4',5'-HexCB	157	< 0,01		0,01
2,3',4,4',5,5'-HexCB	167	< 0,01		0,00
Sum-HexCB		0,70		
2,2',3,3',4,4',5'-HepCB	170	< 0,01		
2,2',3,4,4',5,5'-HepCB	180	0,03	65	
2,2',3,4,4',5',6'-HepCB	183	0,01 i		
2,2',3,4',5,5',6'-HepCB	187	0,04		
2,3,3',4,4',5,5'-HepCB	189	< 0,01		0,00
Sum-HepCB		0,11		
2,2',3,3',4,4',5,5'-OctCB	194	< 0,01		
2,2',3,3',4,4',5,5',6'-NonCB	206	< 0,01		
DecaCB	209	< 0,01		
Sum 6 PCB		2,97		
Sum PCB		15,2		0,03

Sum 6 PCB: PCB(28+52+101+138+153+180)

Sum PCB: Sum of observed PCB (mono- and di-CB are not included)

<: Lower than detection limit at signal-to-noise 3 to 1

i: Isotope ratio deviates more than 20 % from theoretical value.

This may be due to instrumental noise or/and chemical interference

b: Lower than 10 times method blank.

g: Recovery is not according to NILUs quality criteria

TE (WHO): 2378-TCDD toxicity equivalents according to the WHO model
 (M. Van den Berg et al., 1998)

Results of PCB Analysis

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Encl. to measuring report: O-2081
 NILU-Sample number: 03/838
 Customer: Amap 03
 Customers sample ID: 30.4-2.5.03 0748-0704
 : 160-162
 Sample type: Luft
 Sample amount: 1145 m3
 Concentration units: pg/m3
 Data files: DH454_PCB_27-08-2003

Kjeller, 01.09.03

Compound:		Concentration:	Recovery	TE (WHO)
Structure	IUPAC-no.	pg/m3	%	fg/m3
HCB		49,3	50	
2,2',5-TriCB	18	1,94		
2,4,4'-TriCB	28	1,33	58	
2,4',5-TriCB	31	1,26		
2',3,4-TriCB	33	1,05		
3,4,4'-TriCB	37	0,14		
Sum-TriCB		8,21		
2,2',4,4'-TetCB	47	0,51	b	
2,2',5,5'-TetCB	52	0,89	b	54
2,3,4,4'-TetCB	60	0,07		
2,3',4,4'-TetCB	66	0,34		
2,4,4',5-TetCB	74	0,16		
Sum-TetCB		4,33		
2,2',4,4',5-PenCB	99	0,18		
2,2',4,5,5'-PenCB	101	0,49	62	
2,3,3',4,4'-PenCB	105	0,04		0,00
2,3,4,4',5-PenCB	114	< 0,01		0,01
2,3',4,4',5-PenCB	118	0,17	94	0,02
2'3,3',4,5-PenCB	122	< 0,01		
2',3,4,4',5-PenCB	123	< 0,01		0,00
Sum-PenCB		1,50		
2,2',3,3',4,4'-HexCB	128	0,04		
2,2',3,4,4',5'-HexCB	138	0,17	b	
2,2',3,4,5,5'-HexCB	141	0,04		
2,2',3,4',5',6-HexCB	149	0,30	b	
2,2',4,4',5,5'-HexCB	153	0,29	b	60
2,3,3',4,4',5-HexCB	156	0,01	i	0,01
2,3,3',4,4',5'-HexCB	157	< 0,01		0,01
2,3',4,4',5,5'-HexCB	167	< 0,01		0,00
Sum-HexCB		1,40		
2,2',3,3',4,4',5-HepCB	170	0,02		
2,2',3,4,4',5,5'-HepCB	180	0,07	72	
2,2',3,4,4',5',6-HepCB	183	0,03		
2,2',3,4',5,5',6-HepCB	187	0,05		
2,3,3',4,4',5,5'-HepCB	189	< 0,01		0,00
Sum-HepCB		0,27		
2,2',3,3',4,4',5,5'-OctCB	194	0,02	i	
2,2',3,3',4,4',5,5',6-NonCB	206	0,01		
DecaCB	209	< 0,01		
Sum 6 PCB		3,25		
Sum PCB		15,7		0,04

Sum 6 PCB: PCB(28+52+101+138+153+180)
 Sum PCB: Sum of observed PCB (mono- and di-CB are not included)
 <: Lower than detection limit at signal-to-noise 3 to 1
 i: Isotope ratio deviates more than 20 % from theoretical value.
 This may be due to instrumental noise or/and chemical interference
 b: Lower than 10 times method blank.
 g: Recovery is not according to NILUs quality criteria
 TE (WHO): 2378-TCDD toxicity equivalents according to the WHO model
 (M. Van den Berg et al., 1998)

3. Versjon 19.05.03 GSK

Results of PCB Analysis



Encl. to measuring report: O-2081
 NILU-Sample number: 03/840
 Customer: Amap 03
 Customers sample ID: 5-7.5.03 0752-0658
 : 160-160
 Sample type: Luft
 Sample amount: 1130 m3
 Concentration units: pg/m3
 Data files: DH467_PCB_01-10-2003

Kjeller, 03.10.03

Compound:		Concentration:	Recovery	TE (WHO)
Structure	IUPAC-no.	pg/m3	%	fg/m3
HCB		48,0	56	
2,2',5'-TriCB	18	3,51		
2,4,4'-TriCB	28	2,86	65	
2,4',5'-TriCB	31	2,76		
2',3,4'-TriCB	33	2,58		
3,4,4'-TriCB	37	0,31		
Sum-TriCB		17,5		
2,2',4,4'-TetCB	47	0,72 b		
2,2',5,5'-TetCB	52	1,28 b	74	
2,3,4,4'-TetCB	60	0,07		
2,3',4,4'-TetCB	66	0,40		
2,4,4',5'-TetCB	74	0,19		
Sum-TetCB		6,12		
2,2',4,4',5'-PenCB	99	0,22		
2,2',4,5,5'-PenCB	101	0,60	68	
2,3,3',4,4'-PenCB	105	0,05		0,01
2,3,4,4',5'-PenCB	114	< 0,01		0,01
2,3',4,4',5'-PenCB	118	0,19	66	0,02
2',3,3',4,5'-PenCB	122	< 0,01		
2',3,4,4',5'-PenCB	123	< 0,01		0,00
Sum-PenCB		2,04		
2,2',3,3',4,4'-HexCB	128	0,03		
2,2',3,4,4',5'-HexCB	138	0,21 b		
2,2',3,4,5,5'-HexCB	141	0,03		
2,2',3,4',5',6'-HexCB	149	0,29 b		
2,2',4,4',5,5'-HexCB	153	0,26 b	67	
2,3,3',4,4',5'-HexCB	156	0,01 i		0,01
2,3,3',4,4',5'-HexCB	157	< 0,01		0,01
2,3',4,4',5,5'-HexCB	167	< 0,01		0,00
Sum-HexCB		1,36		
2,2',3,3',4,4',5'-HepCB	170	0,02		
2,2',3,4,4',5,5'-HepCB	180	0,05 i	67	
2,2',3,4,4',5',6'-HepCB	183	0,02		
2,2',3,4',5,5',6'-HepCB	187	0,05		
2,3,3',4,4',5,5'-HepCB	189	< 0,01		0,00
Sum-HepCB		0,20		
2,2',3,3',4,4',5,5'-OctCB	194	< 0,01		
2,2',3,3',4,4',5,5',6'-NonCB	206	< 0,01		
DecaCB	209	< 0,01		
Sum 7 PCB		5,47		
Sum PCB		27,2		0,04

Sum 7 PCB: PCB(28+52+101+118+138+153+180)
 Sum PCB: Sum of observed PCB (mono- and di-CB are not included)
 <: Lower than detection limit at signal-to-noise 3 to 1
 i: Isotope ratio deviates more than 20 % from theoretical value.
 This may be due to instrumental noise or/and chemical interference
 b: Lower than 10 times method blank.
 g: Recovery is not according to NILUs quality criteria
 TE (WHO): 2378-TCDD toxicity equivalents according to the WHO model
 (M. Van den Berg et al., 1998)

4. versjon 27.08.2003 GSK

Results of PCB Analysis

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Encl. to measuring report: O-2081
 NILU-Sample number: 03/843
 Customer: Amap 03
 Customers sample ID: 12-14.5.03 0732-0901
 : 160-150
 Sample type: Luft
 Sample amount: 1156 m3
 Concentration units: pg/m3
 Data files: DH467_PCB_01-10-2003

Kjeller, 03.10.03

Compound:		Concentration:	Recovery	TE (WHO)
Structure	IUPAC-no.	pg/m3	%	fg/m3
HCB		49,4	49	
2,2',5'-TriCB	18	2,79		
2,4,4'-TriCB	28	2,31	60	
2,4',5'-TriCB	31	2,24		
2',3,4'-TriCB	33	2,05		
3,4,4'-TriCB	37	0,28		
Sum-TriCB		14,1		
2,2',4,4'-TetCB	47	0,74		
2,2',5,5'-TetCB	52	1,12	67	
2,3,4,4'-TetCB	60	0,07		
2,3',4,4'-TetCB	66	0,38		
2,4,4',5'-TetCB	74	0,19		
Sum-TetCB		5,61		
2,2',4,4',5'-PenCB	99	0,21		
2,2',4,5,5'-PenCB	101	0,58	66	
2,3,3',4,4'-PenCB	105	0,06		0,01
2,3,4,4',5'-PenCB	114	< 0,01		0,01
2,3',4,4',5'-PenCB	118	0,20	65	0,02
2',3,3',4,5'-PenCB	122	< 0,01		
2',3,4,4',5'-PenCB	123	< 0,01		0,00
Sum-PenCB		1,97		
2,2',3,3',4,4'-HexCB	128	0,04		
2,2',3,4,4',5'-HexCB	138	0,24	b	
2,2',3,4,5,5'-HexCB	141	0,04		
2,2',3,4',5',6'-HexCB	149	0,30	b	
2,2',4,4',5,5'-HexCB	153	0,29	b	66
2,3,3',4,4',5'-HexCB	156	0,02		0,01
2,3,3',4,4',5',5'-HexCB	157	< 0,01		0,01
2,3',4,4',5,5'-HexCB	167	< 0,01		0,00
Sum-HexCB		1,52		
2,2',3,3',4,4',5'-HepCB	170	0,03		
2,2',3,4,4',5,5'-HepCB	180	0,06	70	
2,2',3,4,4',5',6'-HepCB	183	0,02	i	
2,2',3,4',5,5',6'-HepCB	187	0,06		
2,3,3',4,4',5,5'-HepCB	189	< 0,01		0,00
Sum-HepCB		0,28		
2,2',3,3',4,4',5,5'-OctCB	194	< 0,01		
2,2',3,3',4,4',5,5',6'-NonCB	206	< 0,01		
DecaCB	209	< 0,01		
Sum 7 PCB		4,80		
Sum PCB		23,5		0,05

Sum 7 PCB: PCB(28+52+101+118+138+153+180)
 Sum PCB: Sum of observed PCB (mono- and di-CB are not included)
 <: Lower than detection limit at signal-to-noise 3 to 1
 i: Isotope ratio deviates more than 20 % from theoretical value.
 This may be due to instrumental noise or/and chemical interference
 b: Lower than 10 times method blank.
 g: Recovery is not according to NILUs quality criteria
 TE (WHO): 2378-TCDD toxicity equivalents according to the WHO model
 (M. Van den Berg et al., 1998)

4. versjon 27.08.2003 GSK

Results of PCB Analysis



Encl. to measuring report: O-2081
 NILU-Sample number: 03/846
 Customer: Amap 03
 Customers sample ID: 19-21.5.03 0810-0731
 : 160-160
 Sample type: Luft
 Sample amount: 1140 m3
 Concentration units: pg/m3
 Data files: DH467_PCB_01-10-2003

Kjeller, 03.10.03

Compound:		Concentration:	Recovery	TE (WHO)
Structure	IUPAC-no.	pg/m3	%	fg/m3
HCb		52,8	56	
2,2',5'-TriCB	18	2,84		
2,4,4'-TriCB	28	2,28	62	
2,4',5'-TriCB	31	2,22		
2',3,4'-TriCB	33	2,03		
3,4,4'-TriCB	37	0,27		
Sum-TriCB		14,0		
2,2',4,4'-TetCB	47	0,60 b		
2,2',5,5'-TetCB	52	1,10 b	69	
2,3,4,4'-TetCB	60	0,08		
2,3',4,4'-TetCB	66	0,40		
2,4,4',5'-TetCB	74	0,18		
Sum-TetCB		5,38		
2,2',4,4',5'-PenCB	99	0,24		
2,2',4,5,5'-PenCB	101	0,65	67	
2,3,3',4,4'-PenCB	105	0,08		0,01
2,3,4,4',5'-PenCB	114	0,01		0,01
2,3',4,4',5'-PenCB	118	0,31	67	0,03
2'3,3',4,5'-PenCB	122	< 0,01		
2',3,4,4',5'-PenCB	123	< 0,01		0,00
Sum-PenCB		2,44		
2,2',3,3',4,4'-HexCB	128	0,06		
2,2',3,4,4',5'-HexCB	138	0,48		
2,2',3,4,5,5'-HexCB	141	0,05		
2,2',3,4',5',6'-HexCB	149	0,39		
2,2',4,4',5,5'-HexCB	153	0,62	65	
2,3,3',4,4',5'-HexCB	156	0,02		0,01
2,3,3',4,4',5'-HexCB	157	< 0,01		0,01
2,3',4,4',5,5'-HexCB	167	0,01		0,00
Sum-HexCB		2,48		
2,2',3,3',4,4',5'-HepCB	170	0,05		
2,2',3,4,4',5,5'-HepCB	180	0,12	65	
2,2',3,4,4',5',6'-HepCB	183	0,04		
2,2',3,4',5,5',6'-HepCB	187	0,14		
2,3,3',4,4',5,5'-HepCB	189	< 0,01		0,00
Sum-HepCB		0,53		
2,2',3,3',4,4',5,5'-OctCB	194	< 0,01		
2,2',3,3',4,4',5,5',6'-NonCB	206	< 0,01		
DecaCB	209	< 0,01		
Sum 7 PCB		5,56		
Sum PCB		24,9		0,06

Sum 7 PCB: PCB(28+52+101+118+138+153+180)

Sum PCB: Sum of observed PCB (mono- and di-CB are not included)

<: Lower than detection limit at signal-to-noise 3 to 1

i: Isotope ratio deviates more than 20 % from theoretical value.

This may be due to instrumental noise or/and chemical interference

b: Lower than 10 times method blank.

g: Recovery is not according to NILUs quality criteria

TE (WHO): 2378-TCDD toxicity equivalents according to the WHO model
 (M. Van den Berg et al., 1998)

Results of PCB Analysis



Encl. to measuring report: O-2081
 NILU-Sample number: 03/849
 Customer: Amap 03
 Customers sample ID: 26-28.5.03 0740-0651
 : 160-158
 Sample type: Luft
 Sample amount: 1130 m3
 Concentration units: pg/m3
 Data files: DH467_PCB_01-10-2003

Kjeller, 03.10.03

Compound:		Concentration:	Recovery	TE (WHO)
Structure	IUPAC-no.	pg/m3	%	fg/m3
HCB		53,1	50	
2,2',5'-TriCB	18	6,58		
2,4,4'-TriCB	28	6,31	60	
2,4',5'-TriCB	31	6,05		
2',3,4'-TriCB	33	5,89		
3,4,4'-TriCB	37	0,75		
Sum-TriCB		37,2		
2,2',4,4'-TetCB	47	1,53		
2,2',5,5'-TetCB	52	2,01	b 67	
2,3,4,4'-TetCB	60	0,13		
2,3',4,4'-TetCB	66	0,68		
2,4,4',5'-TetCB	74	0,33		
Sum-TetCB		11,0		
2,2',4,4',5'-PenCB	99	0,23		
2,2',4,5,5'-PenCB	101	0,71	66	
2,3,3',4,4'-PenCB	105	0,06		0,01
2,3,4,4',5'-PenCB	114	< 0,01		0,01
2,3',4,4',5'-PenCB	118	0,26	65	0,03
2'3,3',4,5'-PenCB	122	< 0,01		
2',3,4,4',5'-PenCB	123	< 0,01		0,00
Sum-PenCB		2,26		
2,2',3,3',4,4'-HexCB	128	0,04		
2,2',3,4,4',5'-HexCB	138	0,34		
2,2',3,4,5,5'-HexCB	141	0,04		
2,2',3,4',5',6'-HexCB	149	0,35		
2,2',4,4',5,5'-HexCB	153	0,49	64	
2,3,3',4,4',5'-HexCB	156	0,02		0,01
2,3,3',4,4',5',5'-HexCB	157	< 0,01		0,01
2,3',4,4',5,5'-HexCB	167	< 0,01		0,00
Sum-HexCB		1,98		
2,2',3,3',4,4',5'-HepCB	170	0,03		
2,2',3,4,4',5,5'-HepCB	180	0,09	62	
2,2',3,4,4',5',6'-HepCB	183	0,03		
2,2',3,4',5,5',6'-HepCB	187	0,10		
2,3,3',4,4',5,5'-HepCB	189	< 0,01		0,00
Sum-HepCB		0,38		
2,2',3,3',4,4',5,5'-OctCB	194	< 0,01		
2,2',3,3',4,4',5,5',6'-NonCB	206	< 0,01		
DecaCB	209	< 0,01		
Sum 7 PCB		10,2		
Sum PCB		52,8		0,05

Sum 7 PCB: PCB(28+52+101+118+138+153+180)
 Sum PCB: Sum of observed PCB (mono- and di-CB are not included)
 <: Lower than detection limit at signal-to-noise 3 to 1
 i: Isotope ratio deviates more than 20 % from theoretical value.
 This may be due to instrumental noise or/and chemical interference
 b: Lower than 10 times method blank.
 g: Recovery is not according to NILUs quality criteria
 TE (WHO): 2378-TCDD toxicity equivalents according to the WHO model
 (M. Van den Berg et al., 1998)

4. versjon 27.08.2003 GSK

Results of PCB Analysis



Encl. to measuring report: O-2081
 NILU-Sample number: 03/1019
 Customer: Amap 03
 Customers sample ID: 4-6.6.03 0712-0819
 : 160-152
 Sample type: Luft
 Sample amount: 1176 m3
 Concentration units: pg/m3
 Data files: DH467_PCB_01-10-2003

Kjeller, 03.10.03

Compound:		Concentration:	Recovery	TE (WHO)
Structure	IUPAC-no.	pg/m3	%	fg/m3
HCb		47,8	55	
2,2',5-TriCB	18	2,31		
2,4,4'-TriCB	28	1,91	64	
2,4',5-TriCB	31	1,89		
2',3,4-TriCB	33	1,75		
3,4,4'-TriCB	37	0,22		
Sum-TriCB		11,7		
2,2',4,4'-TetCB	47	0,46 b		
2,2',5,5'-TetCB	52	0,88 b	69	
2,3,4,4'-TetCB	60	0,05		
2,3',4,4'-TetCB	66	0,27		
2,4,4',5-TetCB	74	0,13		
Sum-TetCB		4,09		
2,2',4,4',5-PenCB	99	0,12 b		
2,2',4,5,5'-PenCB	101	0,35 b	68	
2,3,3',4,4'-PenCB	105	0,03		0,00
2,3,4,4',5-PenCB	114	< 0,01		0,01
2,3',4,4',5-PenCB	118	0,12	67	0,01
2'3,3',4,5-PenCB	122	< 0,01		
2',3,4,4',5-PenCB	123	< 0,01		0,00
Sum-PenCB		1,13		
2,2',3,3',4,4'-HexCB	128	0,02 i		
2,2',3,4,4',5'-HexCB	138	0,13 b		
2,2',3,4,5,5'-HexCB	141	0,02		
2,2',3,4',5',6-HexCB	149	0,18 b		
2,2',4,4',5,5'-HexCB	153	0,17 b	67	
2,3,3',4,4',5-HexCB	156	0,01		0,01
2,3,3',4,4',5'-HexCB	157	< 0,01		0,01
2,3',4,4',5,5'-HexCB	167	< 0,01		0,00
Sum-HexCB		0,84		
2,2',3,3',4,4',5-HepCB	170	0,03		
2,2',3,4,4',5,5'-HepCB	180	0,05	66	
2,2',3,4,4',5',6-HepCB	183	0,02		
2,2',3,4',5,5',6-HepCB	187	0,04		
2,3,3',4,4',5,5'-HepCB	189	< 0,01		0,00
Sum-HepCB		0,21		
2,2',3,3',4,4',5,5'-OctCB	194	< 0,01		
2,2',3,3',4,4',5,5',6-NonCB	206	< 0,01		
DecaCB	209	< 0,01		
Sum 7 PCB		3,61		
Sum PCB		18,0		0,03

Sum 7 PCB: PCB(28+52+101+118+138+153+180)
 Sum PCB: Sum of observed PCB (mono- and di-CB are not included)
 <: Lower than detection limit at signal-to-noise 3 to 1
 i: Isotope ratio deviates more than 20 % from theoretical value.
 This may be due to instrumental noise or/and chemical interference
 b: Lower than 10 times method blank.
 g: Recovery is not according to NILUs quality criteria
 TE (WHO): 2378-TCDD toxicity equivalents according to the WHO model
 (M. Van den Berg et al., 1998)

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Results of PCB Analysis

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Encl. to measuring report: O-2081
 NILU-Sample number: 03/1022
 Customer: Amap 03
 Customers sample ID: 11-13.6.03 0902-0732
 : 160-164
 Sample type: Luft
 Sample amount: 1135 m3
 Concentration units: pg/m3
 Data files: DH467_PCB_01-10-2003

Kjeller, 03.10.03

Compound:		Concentration:	Recovery	TE (WHO)
Structure	IUPAC-no.	pg/m3	%	fg/m3
HCB		56,1	51	
2,2',5-TriCB	18	1,99		
2,4,4'-TriCB	28	1,80	59	
2,4',5-TriCB	31	1,77		
2',3,4-TriCB	33	1,63		
3,4,4'-TriCB	37	0,24		
Sum-TriCB		10,7		
2,2',4,4'-TetCB	47	0,43 b		
2,2',5,5'-TetCB	52	0,80 b	64	
2,3,4,4'-TetCB	60	0,06		
2,3',4,4'-TetCB	66	0,28		
2,4,4',5-TetCB	74	0,13		
Sum-TetCB		3,80		
2,2',4,4',5-PenCB	99	0,11 b		
2,2',4,5,5'-PenCB	101	0,32 b	68	
2,3,3',4,4'-PenCB	105	0,03		0,00
2,3,4,4',5-PenCB	114	< 0,01		0,01
2,3',4,4',5-PenCB	118	0,11	69	0,01
2'3,3',4,5-PenCB	122	< 0,01		
2',3,4,4',5-PenCB	123	< 0,01		0,00
Sum-PenCB		1,13		
2,2',3,3',4,4'-HexCB	128	0,02		
2,2',3,4,4',5'-HexCB	138	0,16 b		
2,2',3,4,5,5'-HexCB	141	0,02		
2,2',3,4',5',6-HexCB	149	0,18 b		
2,2',4,4',5,5'-HexCB	153	0,18 b	68	
2,3,3',4,4',5-HexCB	156	0,01		0,01
2,3,3',4,4',5'-HexCB	157	< 0,01		0,01
2,3',4,4',5,5'-HexCB	167	< 0,01		0,00
Sum-HexCB		0,90		
2,2',3,3',4,4',5-HepCB	170	0,02		
2,2',3,4,4',5,5'-HepCB	180	0,05	69	
2,2',3,4,4',5',6-HepCB	183	0,02		
2,2',3,4',5,5',6-HepCB	187	0,05		
2,3,3',4,4',5,5'-HepCB	189	< 0,01		0,00
Sum-HepCB		0,16		
2,2',3,3',4,4',5,5'-OctCB	194	< 0,01		
2,2',3,3',4,4',5,5',6-NonCB	206	< 0,01		
DecaCB	209	< 0,01		
Sum 7 PCB		3,43		
Sum PCB		16,7		0,03

Sum 7 PCB: PCB(28+52+101+118+138+153+180)
 Sum PCB: Sum of observed PCB (mono- and di-CB are not included)
 <: Lower than detection limit at signal-to-noise 3 to 1
 i: Isotope ratio deviates more than 20 % from theoretical value.
 This may be due to instrumental noise or/and chemical interference
 b: Lower than 10 times method blank.
 g: Recovery is not according to NILUs quality criteria
 TE (WHO): 2378-TCDD toxicity equivalents according to the WHO model
 (M. Van den Berg et al., 1998)

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Results of PCB Analysis



Encl. to measuring report: O-2081
 NILU-Sample number: 03/1025
 Customer: Amap 03
 Customers sample ID: 18-20.6.03 0700-0754
 : 160-157
 Sample type: Luft
 Sample amount: 1169 m3
 Concentration units: pg/m3
 Data files: DH467_PCB_01-10-2003

Kjeller, 03.10.03

Compound:		Concentration:	Recovery	TE (WHO)
Structure	IUPAC-no.	pg/m3	%	fg/m3
HCb		53,8	54	
2,2',5-TriCB	18	2,50		
2,4,4'-TriCB	28	2,14	60	
2,4',5-TriCB	31	2,13		
2',3,4-TriCB	33	1,98		
3,4,4'-TriCB	37	0,27		
Sum-TriCB		13,1		
2,2',4,4'-TetCB	47	0,50 b		
2,2',5,5'-TetCB	52	0,91 b	65	
2,3,4,4'-TetCB	60	0,05		
2,3',4,4'-TetCB	66	0,28		
2,4,4',5-TetCB	74	0,13		
Sum-TetCB		4,31		
2,2',4,4',5-PenCB	99	0,09 b		
2,2',4,5,5'-PenCB	101	0,32 b	65	
2,3,3',4,4'-PenCB	105	0,03		0,00
2,3,4,4',5-PenCB	114	< 0,01		0,01
2,3',4,4',5-PenCB	118	0,10	65	0,01
2'3,3',4,5-PenCB	122	< 0,01		
2',3,4,4',5-PenCB	123	< 0,01		0,00
Sum-PenCB		1,11		
2,2',3,3',4,4'-HexCB	128	0,02 i		
2,2',3,4,4',5'-HexCB	138	0,12 b		
2,2',3,4,5,5'-HexCB	141	0,02		
2,2',3,4',5',6-HexCB	149	0,15 b		
2,2',4,4',5,5'-HexCB	153	0,14 b	63	
2,3,3',4,4',5-HexCB	156	0,01		0,01
2,3,3',4,4',5'-HexCB	157	< 0,01		0,01
2,3',4,4',5,5'-HexCB	167	< 0,01		0,00
Sum-HexCB		0,78		
2,2',3,3',4,4',5-HepCB	170	0,03		
2,2',3,4,4',5,5'-HepCB	180	0,05	62	
2,2',3,4,4',5',6-HepCB	183	0,01		
2,2',3,4',5,5',6-HepCB	187	0,03		
2,3,3',4,4',5,5'-HepCB	189	< 0,01		0,00
Sum-HepCB		0,16		
2,2',3,3',4,4',5,5'-OctCB	194	< 0,01		
2,2',3,3',4,4',5,5',6-NonCB	206	< 0,01		
DecaCB	209	< 0,01		
Sum 7 PCB		3,78		
Sum PCB		19,4		0,03

Sum 7 PCB: PCB(28+52+101+118+138+153+180)
 Sum PCB: Sum of observed PCB (mono- and di-CB are not included)
 <: Lower than detection limit at signal-to-noise 3 to 1
 i: Isotope ratio deviates more than 20 % from theoretical value.
 This may be due to instrumental noise or/and chemical interference
 b: Lower than 10 times method blank.
 g: Recovery is not according to NILUs quality criteria
 TE (WHO): 2378-TCDD toxicity equivalents according to the WHO model
 (M. Van den Berg et al., 1998)

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Results of PCB Analysis

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Encl. to measuring report: O-2081
 NILU-Sample number: 03/1028
 Customer: Amap 03
 Customers sample ID: 25-27.6.03 0727-0726
 : 160-165
 Sample type: Luft
 Sample amount: 1176 m3
 Concentration units: pg/m3
 Data files: DH467_PCB_01-10-2003

Kjeller, 06.10.2003

Compound:		Concentration:	Recovery	TE (WHO)
Structure	IUPAC-no.	pg/m3	%	fg/m3
HCB		50,2	54	
2,2',5'-TriCB	18	2,37		
2,4,4'-TriCB	28	2,00	62	
2,4',5'-TriCB	31	1,93		
2',3,4'-TriCB	33	1,81		
3,4,4'-TriCB	37	0,28		
Sum-TriCB		12,1		
2,2',4,4'-TetCB	47	0,55 b		
2,2',5,5'-TetCB	52	0,82 b	66	
2,3,4,4'-TetCB	60	0,05		
2,3',4,4'-TetCB	66	0,27		
2,4,4',5'-TetCB	74	0,13		
Sum-TetCB		4,17		
2,2',4,4',5'-PenCB	99	0,09 b		
2,2',4,5,5'-PenCB	101	0,31 b	67	
2,3,3',4,4'-PenCB	105	0,03		0,00
2,3,4,4',5'-PenCB	114	< 0,01		0,01
2,3',4,4',5'-PenCB	118	0,10	69	0,01
2',3,3',4,5'-PenCB	122	< 0,01		
2',3,4,4',5'-PenCB	123	< 0,01		0,00
Sum-PenCB		0,96		
2,2',3,3',4,4'-HexCB	128	0,02 i		
2,2',3,4,4',5'-HexCB	138	0,11 b		
2,2',3,4,5,5'-HexCB	141	0,02		
2,2',3,4',5',6'-HexCB	149	0,14 b		
2,2',4,4',5,5'-HexCB	153	0,12 b	67	
2,3,3',4,4',5'-HexCB	156	0,01		0,01
2,3,3',4,4',5'-HexCB	157	< 0,01		0,01
2,3',4,4',5,5'-HexCB	167	< 0,01		0,00
Sum-HexCB		0,68		
2,2',3,3',4,4',5'-HepCB	170	0,03 i		
2,2',3,4,4',5,5'-HepCB	180	0,05	64	
2,2',3,4,4',5',6'-HepCB	183	0,01 i		
2,2',3,4',5,5',6'-HepCB	187	0,03		
2,3,3',4,4',5,5'-HepCB	189	< 0,01		0,00
Sum-HepCB		0,16		
2,2',3,3',4,4',5,5'-OctCB	194	< 0,01		
2,2',3,3',4,4',5,5',6'-NonCB	206	< 0,01		
DecaCB	209	< 0,01		
Sum 7 PCB		3,51		
Sum PCB		18,1		0,03

Sum 7 PCB: PCB(28+52+101+118+138+153+180)
 Sum PCB: Sum of observed PCB (mono- and di-CB are not included)
 <: Lower than detection limit at signal-to-noise 3 to 1
 i: Isotope ratio deviates more than 20 % from theoretical value.
 This may be due to instrumental noise or/and chemical interference
 b: Lower than 10 times method blank.
 g: Recovery is not according to NILUs quality criteria
 TE (WHO): 2378-TCDD toxicity equivalents according to the WHO model
 (M. Van den Berg et al., 1998)

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Results of PCB Analysis



Encl. to measuring report: O-2081
 NILU-Sample number: 03/1242
 Customer: Amap 03
 Customers sample ID: 4-6.7.03 0735-1935
 : 160-155
 Sample type: Luft
 Sample amount: 1188 m3
 Concentration units: pg/m3
 Data files: VA757gml_PCB_29-03-2004

Kjeller, 06.05.04

Compound:		Concentration:	Recovery	TE (WHO)
Structure	IUPAC-no.	pg/m3	%	fg/m3
HCB		56,4	57	
2,2',5'-TriCB	18	2,86		
2,4,4'-TriCB	28	3,63	61	
2,4',5'-TriCB	31	3,49		
2',3,4'-TriCB	33	2,87		
3,4,4'-TriCB	37	0,57		
Sum-TriCB		19,9		
2,2',4,4'-TetCB	47	0,77 b		
2,2',5,5'-TetCB	52	1,25 b	57	
2,3,4,4'-TetCB	60			
2,3',4,4'-TetCB	66	0,43 b		
2,4,4',5'-TetCB	74	0,26		
Sum-TetCB		5,28		
2,2',4,4',5'-PenCB	99	0,11 b		
2,2',4,5,5'-PenCB	101	0,36 b	82	
2,3,3',4,4'-PenCB	105	0,04 b		0,00
2,3,4,4',5'-PenCB	114	< 0,01		0,01
2,3',4,4',5'-PenCB	118	0,12 b	92	0,01
2',3,3',4,5'-PenCB	122	< 0,01		
2',3,4,4',5'-PenCB	123	< 0,01		0,00
Sum-PenCB		1,10		
2,2',3,3',4,4',5'-HexCB	128	0,02 b		
2,2',3,4,4',5',5'-HexCB	138	0,10 b		
2,2',3,4,5,5',5'-HexCB	141	0,02		
2,2',3,4',5',6'-HexCB	149	0,14 b		
2,2',4,4',5,5',5'-HexCB	153	0,13 b	91	
2,3,3',4,4',5'-HexCB	156	0,02 b		0,01
2,3,3',4,4',5',5'-HexCB	157	< 0,01		0,01
2,3',4,4',5,5',5'-HexCB	167	< 0,01		0,00
Sum-HexCB		0,74		
2,2',3,3',4,4',5'-HepCB	170	0,02		
2,2',3,4,4',5,5',5'-HepCB	180	0,06 b	109	
2,2',3,4,4',5',6'-HepCB	183	< 0,01		
2,2',3,4',5,5',6'-HepCB	187	0,02 b		
2,3,3',4,4',5,5',5'-HepCB	189	< 0,01		0,00
Sum-HepCB		0,16		
2,2',3,3',4,4',5,5',5'-OctCB	194	< 0,01		
2,2',3,3',4,4',5,5',6'-NonCB	206	< 0,01		
DecaCB	209	< 0,01		
Sum 7 PCB		5,66		
Sum PCB		27,2		0,04

Sum 7 PCB: PCB(28+52+101+118+138+153+180)
 Sum PCB: Sum of observed PCB (mono- and di-CB are not included)
 <: Lower than detection limit at signal-to-noise 3 to 1
 i: Isotope ratio deviates more than 20 % from theoretical value.
 This may be due to instrumental noise or/and chemical interference
 b: Lower than 10 times method blank.
 g: Recovery is not according to NILUs quality criteria
 TE (WHO): 2378-TCDD toxicity equivalents according to the WHO model
 (M. Van den Berg et al., 1998)

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Results of PCB Analysis

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Encl. to measuring report: O-2081
 NILU-Sample number: 03/1244
 Customer: Amap 03
 Customers sample ID: 9-11.7.03 0800-0737
 : 160-160
 Sample type: Luft
 Sample amount: 1147 m3
 Concentration units: pg/m3
 Data files: VA757gml_PCB_29-03-2004

Kjeller, 06.05.04

Compound:		Concentration:	Recovery	TE (WHO)
Structure	IUPAC-no.	pg/m3	%	fg/m3
HCB		63,5	60	
2,2',5'-TriCB	18	2,24		
2,4,4'-TriCB	28	2,67	65	
2,4',5'-TriCB	31	2,58		
2',3,4'-TriCB	33	2,05		
3,4,4'-TriCB	37	0,35		
Sum-TriCB		14,7		
2,2',4,4'-TetCB	47	0,61 b		
2,2',5,5'-TetCB	52	1,12 b	61	
2,3,4,4'-TetCB	60			
2,3',4,4'-TetCB	66	0,37 b		
2,4,4',5'-TetCB	74	0,22 b		
Sum-TetCB		4,39		
2,2',4,4',5'-PenCB	99	0,17 b		
2,2',4,5,5'-PenCB	101	0,46 b	89	
2,3,3',4,4'-PenCB	105	0,07 b		0,01
2,3,4,4',5'-PenCB	114	< 0,01		0,01
2,3',4,4',5'-PenCB	118	0,21 b	97	0,02
2',3,3',4,5'-PenCB	122	< 0,01		
2',3,4,4',5'-PenCB	123	< 0,01		0,00
Sum-PenCB		1,67		
2,2',3,3',4,4'-HexCB	128	0,04 b		
2,2',3,4,4',5'-HexCB	138	0,20 b		
2,2',3,4,5,5'-HexCB	141	0,04 b		
2,2',3,4',5',6'-HexCB	149	0,24 b		
2,2',4,4',5,5'-HexCB	153	0,28 b	97	
2,3,3',4,4',5'-HexCB	156	0,02 b		0,01
2,3,3',4,4',5'-HexCB	157	< 0,01		0,01
2,3',4,4',5,5'-HexCB	167	< 0,01		0,00
Sum-HexCB		1,32		
2,2',3,3',4,4',5'-HepCB	170	0,03 b		
2,2',3,4,4',5,5'-HepCB	180	0,07 b	116	
2,2',3,4,4',5',6'-HepCB	183	0,02 b		
2,2',3,4',5,5',6'-HepCB	187	0,05 b		
2,3,3',4,4',5,5'-HepCB	189	< 0,01		0,00
Sum-HepCB		0,25		
2,2',3,3',4,4',5,5'-OctCB	194	< 0,01		
2,2',3,3',4,4',5,5',6'-NonCB	206	< 0,01		
DecaCB	209	< 0,01		
Sum 7 PCB		5,00		
Sum PCB		22,4		0,05

Sum 7 PCB: PCB(28+52+101+118+138+153+180)
 Sum PCB: Sum of observed PCB (mono- and di-CB are not included)
 <: Lower than detection limit at signal-to-noise 3 to 1
 i: Isotope ratio deviates more than 20 % from theoretical value.
 This may be due to instrumental noise or/and chemical interference
 b: Lower than 10 times method blank.
 g: Recovery is not according to NILUs quality criteria
 TE (WHO): 2378-TCDD toxicity equivalents according to the WHO model
 (M. Van den Berg et al., 1998)

4. versjon 27.08.2003 GSK

Results of PCB Analysis



Encl. to measuring report: O-2081
 NILU-Sample number: 03/1247
 Customer: Amap 03
 Customers sample ID: 16-18.7.03 0851-0736
 : 160-163
 Sample type: Luft
 Sample amount: 1132 m3
 Concentration units: pg/m3
 Data files: VA757gml_PCB_29-03-2004

Kjeller, 06.05.04

Compound:		Concentration:	Recovery	TE (WHO)
Structure	IUPAC-no.	pg/m3	%	fg/m3
HCB		62,7	64	
2,2',5'-TriCB	18	1,46 b		
2,4,4'-TriCB	28	1,49	69	
2,4',5'-TriCB	31	1,43 b		
2',3,4'-TriCB	33	1,12		
3,4,4'-TriCB	37	0,20 b		
Sum-TriCB		8,45		
2,2',4,4'-TetCB	47	0,35 b		
2,2',5,5'-TetCB	52	0,83	66	
2,3,4,4'-TetCB	60			
2,3',4,4'-TetCB	66	0,24 b		
2,4,4',5'-TetCB	74	0,16 b		
Sum-TetCB		2,91		
2,2',4,4',5'-PenCB	99	0,14 b		
2,2',4,5,5'-PenCB	101	0,37	94	
2,3,3',4,4'-PenCB	105	0,05 b		0,00
2,3,4,4',5'-PenCB	114	0,02		0,01
2,3',4,4',5'-PenCB	118	0,15	103	0,01
2',3,3',4,5'-PenCB	122	< 0,01		
2',3,4,4',5'-PenCB	123	0,02		0,00
Sum-PenCB		1,27		
2,2',3,3',4,4'-HexCB	128	0,03 b		
2,2',3,4,4',5'-HexCB	138	0,17		
2,2',3,4,5,5'-HexCB	141	0,04 b		
2,2',3,4',5',6'-HexCB	149	0,20 b		
2,2',4,4',5,5'-HexCB	153	0,25	105	
2,3,3',4,4',5'-HexCB	156	0,02 b		0,01
2,3,3',4,4',5'-HexCB	157	< 0,01		0,01
2,3',4,4',5,5'-HexCB	167	< 0,01		0,00
Sum-HexCB		1,10		
2,2',3,3',4,4',5'-HepCB	170	0,04 b		
2,2',3,4,4',5,5'-HepCB	180	0,10	123	
2,2',3,4,4',5',6'-HepCB	183	0,02 b		
2,2',3,4',5,5',6'-HepCB	187	0,05 b		
2,3,3',4,4',5,5'-HepCB	189	< 0,01		0,00
Sum-HepCB		0,26		
2,2',3,3',4,4',5,5'-OctCB	194	0,02		
2,2',3,3',4,4',5,5',6'-NonCB	206	0,01		
DecaCB	209	< 0,01		
Sum 7 PCB		3,34		
Sum PCB		14,0		0,05

Sum 7 PCB: PCB(28+52+101+118+138+153+180)
 Sum PCB: Sum of observed PCB (mono- and di-CB are not included)
 <: Lower than detection limit at signal-to-noise 3 to 1
 i: Isotope ratio deviates more than 20 % from theoretical value.
 This may be due to instrumental noise or/and chemical interference
 b: Lower than 10 times method blank.
 g: Recovery is not according to NILUs quality criteria
 TE (WHO): 2378-TCDD toxicity equivalents according to the WHO model
 (M. Van den Berg et al., 1998)

Results of PCB Analysis



Encl. to measuring report: O-2081
 NILU-Sample number: 03/1250
 Customer: Amap 03
 Customers sample ID: 23-25.7.03 0756-0716
 : 160-160
 Sample type: Luft
 Sample amount: 1140 m3
 Concentration units: pg/m3
 Data files: VA757gml_PCB_29-03-2004

Kjeller, 06.05.04

Compound:		Concentration:	Recovery	TE (WHO)
Structure	IUPAC-no.	pg/m3	%	fg/m3
HCB		62,6	60	
2,2',5-TriCB	18	2,14		
2,4,4'-TriCB	28	2,55	60	
2,4',5-TriCB	31	2,48		
2',3,4-TriCB	33	2,02		
3,4,4'-TriCB	37	0,39		
Sum-TriCB		14,2		
2,2',4,4'-TetCB	47	0,55 b		
2,2',5,5'-TetCB	52	1,00 b	59	
2,3,4,4'-TetCB	60			
2,3',4,4'-TetCB	66	0,33		
2,4,4',5-TetCB	74	0,20		
Sum-TetCB		4,04		
2,2',4,4',5-PenCB	99	0,11		
2,2',4,5,5'-PenCB	101	0,31 b	81	
2,3,3',4,4'-PenCB	105	0,04 i,b		0,00
2,3,4,4',5-PenCB	114	0,02		0,01
2,3',4,4',5-PenCB	118	0,12 b	87	0,01
2',3,3',4,5-PenCB	122	< 0,01		
2',3,4,4',5-PenCB	123	< 0,01		0,00
Sum-PenCB		1,04		
2,2',3,3',4,4',5-HexCB	128	0,02 b		
2,2',3,4,4',5,5'-HexCB	138	0,11 b		
2,2',3,4,5,5',5'-HexCB	141	0,02 b		
2,2',3,4',5,6-HexCB	149	0,16 b		
2,2',4,4',5,5'-HexCB	153	0,18 b	92	
2,3,3',4,4',5-HexCB	156	0,02 b		0,01
2,3,3',4,4',5,5'-HexCB	157	< 0,01		0,01
2,3',4,4',5,5',5'-HexCB	167	< 0,01		0,00
Sum-HexCB		0,77		
2,2',3,3',4,4',5,5'-HepCB	170	0,03 b		
2,2',3,4,4',5,5',5'-HepCB	180	0,06 b	115	
2,2',3,4,4',5',6-HepCB	183	0,01 b		
2,2',3,4',5,5',6-HepCB	187	0,03 b		
2,3,3',4,4',5,5',5'-HepCB	189	< 0,01		0,00
Sum-HepCB		0,19		
2,2',3,3',4,4',5,5',5'-OctCB	194	0,01		
2,2',3,3',4,4',5,5',6-NonCB	206	< 0,01		
DecaCB	209	< 0,01		
Sum 7 PCB		4,34		
Sum PCB		20,3		0,04

Sum 7 PCB: PCB(28+52+101+118+138+153+180)
 Sum PCB: Sum of observed PCB (mono- and di-CB are not included)
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 This may be due to instrumental noise or/and chemical interference
 b: Lower than 10 times method blank.
 g: Recovery is not according to NILUs quality criteria
 TE (WHO): 2378-TCDD toxicity equivalents according to the WHO model
 (M. Van den Berg et al., 1998)

4. version 27.08.2003 GSK

Results of PCB Analysis



Encl. to measuring report: O-2081
 NILU-Sample number: 03/1254
 Customer: Amap 03
 Customers sample ID: 1-3.8.03 0735-0913
 : 160-159
 Sample type: Luft
 Sample amount: 1193 m3
 Concentration units: pg/m3
 Data files: VA757gml_PCB_29-03-2004

Kjeller, 06.05.04

Compound:		Concentration:	Recovery	TE (WHO)
Structure	IUPAC-no.	pg/m3	%	fg/m3
HCB		53,1	65	
2,2',5-TriCB	18	1,97		
2,4,4'-TriCB	28	2,29	66	
2,4',5-TriCB	31	2,18		
2',3,4-TriCB	33	1,76		
3,4,4'-TriCB	37	0,36		
Sum-TriCB		12,6		
2,2',4,4'-TetCB	47	0,60 b		
2,2',5,5'-TetCB	52	0,93 b	62	
2,3,4,4'-TetCB	60			
2,3',4,4'-TetCB	66	0,31		
2,4,4',5-TetCB	74	0,20		
Sum-TetCB		3,94		
2,2',4,4',5-PenCB	99	0,10 b		
2,2',4,5,5'-PenCB	101	0,31 b	90	
2,3,3',4,4'-PenCB	105	0,03 b		0,00
2,3,4,4',5-PenCB	114	< 0,01		0,01
2,3',4,4',5-PenCB	118	0,11 b	102	0,01
2',3,3',4,5-PenCB	122	< 0,01		
2',3,4,4',5-PenCB	123	< 0,01		0,00
Sum-PenCB		0,98		
2,2',3,3',4,4'-HexCB	128	0,02 b		
2,2',3,4,4',5'-HexCB	138	0,09 b		
2,2',3,4,5,5'-HexCB	141	0,02 b		
2,2',3,4',5',6-HexCB	149	0,12 b		
2,2',4,4',5,5'-HexCB	153	0,12 b	105	
2,3,3',4,4',5-HexCB	156	0,01 b		0,01
2,3,3',4,4',5'-HexCB	157	< 0,01		0,01
2,3',4,4',5,5'-HexCB	167	< 0,01		0,00
Sum-HexCB		0,59		
2,2',3,3',4,4',5-HepCB	170	0,02 b		
2,2',3,4,4',5,5'-HepCB	180	0,04 b	133 g	
2,2',3,4,4',5',6-HepCB	183	< 0,01		
2,2',3,4',5,5',6-HepCB	187	0,02 b		
2,3,3',4,4',5,5'-HepCB	189	< 0,01		0,00
Sum-HepCB		0,10		
2,2',3,3',4,4',5,5'-OctCB	194	< 0,01		
2,2',3,3',4,4',5,5',6-NonCB	206	< 0,01		
DecaCB	209	< 0,01		
Sum 7 PCB		3,89		
Sum PCB		18,3		0,03

Sum 7 PCB: PCB(28+52+101+118+138+153+180)
 Sum PCB: Sum of observed PCB (mono- and di-CB are not included)
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 This may be due to instrumental noise or/and chemical interference
 b: Lower than 10 times method blank.
 g: Recovery is not according to NILUs quality criteria
 TE (WHO): 2378-TCDD toxicity equivalents according to the WHO model
 (M. Van den Berg et al., 1998)

Results of PCB Analysis

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Encl. to measuring report: PO-2081
 NILU-Sample number: 04/1256
 Customer: Amap 03
 Customers sample ID: 6-8.8.03 0754-0659
 : 160-160
 Sample type: Luft
 Sample amount: 1135 m3
 Concentration units: pg/m3
 Data files: VA757gml_PCB_29-03-2004

Kjeller, 06.05.04

Compound:		Concentration:	Recovery	TE (WHO)
Structure	IUPAC-no.	pg/m3	%	fg/m3
HCB		62,6	61	
2,2',5'-TriCB	18	1,65		
2,4,4'-TriCB	28	1,66	62	
2,4',5'-TriCB	31	1,61		
2',3,4'-TriCB	33	1,28		
3,4,4'-TriCB	37	0,25		
Sum-TriCB		9,40		
2,2',4,4'-TetCB	47	0,41 b		
2,2',5,5'-TetCB	52	0,78 b	60	
2,3,4,4'-TetCB	60			
2,3',4,4'-TetCB	66	0,27 b		
2,4,4',5'-TetCB	74	0,17		
Sum-TetCB		3,09		
2,2',4,4',5'-PenCB	99	0,15		
2,2',4,5,5'-PenCB	101	0,35 b	82	
2,3,3',4,4'-PenCB	105	0,07		0,01
2,3,4,4',5'-PenCB	114	< 0,01		0,01
2,3',4,4',5'-PenCB	118	0,23	92	0,02
2'3,3',4,5'-PenCB	122	< 0,01		
2',3,4,4',5'-PenCB	123	< 0,01		0,00
Sum-PenCB		1,33		
2,2',3,3',4,4'-HexCB	128	0,06		
2,2',3,4,4',5'-HexCB	138	0,32 b		
2,2',3,4,5,5'-HexCB	141	0,04 b		
2,2',3,4',5',6'-HexCB	149	0,20 b		
2,2',4,4',5,5'-HexCB	153	0,46	93	
2,3,3',4,4',5'-HexCB	156	0,04		0,02
2,3,3',4,4',5'-HexCB	157	< 0,01		0,01
2,3',4,4',5,5'-HexCB	167	0,02		0,00
Sum-HexCB		1,58		
2,2',3,3',4,4',5'-HepCB	170	0,06 b		
2,2',3,4,4',5,5'-HepCB	180	0,14 b	118	
2,2',3,4,4',5',6'-HepCB	183	0,03 b		
2,2',3,4',5,5',6'-HepCB	187	0,07 b		
2,3,3',4,4',5,5'-HepCB	189	< 0,01		0,00
Sum-HepCB		0,37		
2,2',3,3',4,4',5,5'-OctCB	194	< 0,02		
2,2',3,3',4,4',5,5',6'-NonCB	206	< 0,01		
DecaCB	209	< 0,01		
Sum 7 PCB		3,94		
Sum PCB		15,8		0,06

Sum 7 PCB: PCB(28+52+101+118+138+153+180)
 Sum PCB: Sum of observed PCB (mono- and di-CB are not included)
 <: Lower than detection limit at signal-to-noise 3 to 1
 i: Isotope ratio deviates more than 20 % from theoretical value.
 This may be due to instrumental noise or/and chemical interference
 b: Lower than 10 times method blank.
 g: Recovery is not according to NILUs quality criteria
 TE (WHO): 2378-TCDD toxicity equivalents according to the WHO model
 (M. Van den Berg et al., 1998)

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Results of PCB Analysis



Encl. to measuring report: O-2081
 NILU-Sample number: 04/1259
 Customer: Amap 03
 Customers sample ID: 13-15.8.03 0740-0849
 : 160-158
 Sample type: Luft
 Sample amount: 1178 m3
 Concentration units: pg/m3
 Data files: VA757gml_PCB_29-03-2004

Kjeller, 06.05.04

Compound:		Concentration:	Recovery	TE (WHO)
Structure	IUPAC-no.	pg/m3	%	fg/m3
HCB		58,9	75	
2,2',5-TriCB	18	1,78		
2,4,4'-TriCB	28	1,92	64	
2,4',5-TriCB	31	1,87		
2',3,4-TriCB	33	1,45		
3,4,4'-TriCB	37	0,27		
Sum-TriCB		10,8		
2,2',4,4'-TetCB	47	0,49 b		
2,2',5,5'-TetCB	52	0,89 b	60	
2,3,4,4'-TetCB	60			
2,3',4,4'-TetCB	66	0,31		
2,4,4',5-TetCB	74	0,19		
Sum-TetCB		3,55		
2,2',4,4',5-PenCB	99	0,20		
2,2',4,5,5'-PenCB	101	0,51	76	
2,3,3',4,4'-PenCB	105	0,10		0,01
2,3,4,4',5-PenCB	114	0,02		0,01
2,3',4,4',5-PenCB	118	0,29	83	0,03
2'3,3',4,5-PenCB	122	< 0,01		
2',3,4,4',5-PenCB	123	< 0,01		0,00
Sum-PenCB		1,98		
2,2',3,3',4,4'-HexCB	128	0,06 i		
2,2',3,4,4',5'-HexCB	138	0,37		
2,2',3,4,5,5'-HexCB	141	0,07 b		
2,2',3,4',5',6-HexCB	149	0,29 b		
2,2',4,4',5,5'-HexCB	153	0,68	86	
2,3,3',4,4',5-HexCB	156	0,04		0,02
2,3,3',4,4',5'-HexCB	157	< 0,01		0,01
2,3',4,4',5,5'-HexCB	167	0,01		0,00
Sum-HexCB		2,14		
2,2',3,3',4,4',5-HepCB	170	0,07 b		
2,2',3,4,4',5,5'-HepCB	180	0,14 b	101	
2,2',3,4,4',5',6-HepCB	183	0,04 b		
2,2',3,4',5,5',6-HepCB	187	0,09 b		
2,3,3',4,4',5,5'-HepCB	189	< 0,01		0,00
Sum-HepCB		0,44		
2,2',3,3',4,4',5,5'-OctCB	194	< 0,02		
2,2',3,3',4,4',5,5',6-NonCB	206	< 0,01		
DecaCB	209	< 0,01		
Sum 7 PCB		4,80		
Sum PCB		18,9		0,07

Sum 7 PCB: PCB(28+52+101+118+138+153+180)
 Sum PCB: Sum of observed PCB (mono- and di-CB are not included)
 <: Lower than detection limit at signal-to-noise 3 to 1
 i: isotope ratio deviates more than 20 % from theoretical value.
 This may be due to instrumental noise or/and chemical interference
 b: Lower than 10 times method blank.
 g: Recovery is not according to NILUs quality criteria
 TE (WHO): 2378-TCDD toxicity equivalents according to the WHO model
 (M. Van den Berg et al., 1998)

Results of PCB Analysis



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Encl. to measuring report: O-2081
 NILU-Sample number: 03/1262
 Customer: Amap 03
 Customers sample ID: 20-22.8.03 0804-0813
 : 160-158
 Sample type: Luft
 Sample amount: 1154 m3
 Concentration units: pg/m3
 Data files: VA757gml_PCB_29-03-2004

Kjeller, 06.05.04

Compound:		Concentration:	Recovery	TE (WHO)
Structure	IUPAC-no.	pg/m3	%	fg/m3
HCB		60,7	55	
2,2',5-TriCB	18	2,42		
2,4,4'-TriCB	28	3,12	57	
2,4',5-TriCB	31	2,92		
2',3,4-TriCB	33	2,41		
3,4,4'-TriCB	37	0,46		
Sum-TriCB		16,7		
2,2',4,4'-TetCB	47	0,66 b		
2,2',5,5'-TetCB	52	1,15 b	57	
2,3,4,4'-TetCB	60			
2,3',4,4'-TetCB	66	0,40		
2,4,4',5-TetCB	74	0,25		
Sum-TetCB		4,77		
2,2',4,4',5-PenCB	99	0,19		
2,2',4,5,5'-PenCB	101	0,43 b	82	
2,3,3',4,4'-PenCB	105	0,10		0,01
2,3,4,4',5-PenCB	114	< 0,01		0,01
2,3',4,4',5-PenCB	118	0,30	90	0,03
2'3,3',4,5-PenCB	122	0,02		
2',3,4,4',5-PenCB	123	< 0,01		0,00
Sum-PenCB		1,59		
2,2',3,3',4,4',5-HexCB	128	0,05 b		
2,2',3,4,4',5,5'-HexCB	138	0,37		
2,2',3,4,5,5',5'-HexCB	141	0,04 b		
2,2',3,4',5,5',6-HexCB	149	0,20 b		
2,2',4,4',5,5',5'-HexCB	153	0,61	92	
2,3,3',4,4',5-HexCB	156	0,04		0,02
2,3,3',4,4',5',5'-HexCB	157	< 0,01		0,01
2,3',4,4',5,5',5'-HexCB	167	0,02		0,00
Sum-HexCB		1,85		
2,2',3,3',4,4',5-HepCB	170	0,03 b		
2,2',3,4,4',5,5',5'-HepCB	180	0,10 b	118	
2,2',3,4,4',5',6-HepCB	183	0,03 b		
2,2',3,4',5,5',6-HepCB	187	0,06 b		
2,3,3',4,4',5,5',5'-HepCB	189	< 0,01		0,00
Sum-HepCB		0,30		
2,2',3,3',4,4',5,5',5'-OctCB	194	< 0,01		
2,2',3,3',4,4',5,5',6-NonCB	206	< 0,01		
DecaCB	209	< 0,01		
Sum 7 PCB		6,08		
Sum PCB		25,3		0,07

Sum 7 PCB: PCB(28+52+101+118+138+153+180)
 Sum PCB: Sum of observed PCB (mono- and di-CB are not included)
 <: Lower than detection limit at signal-to-noise 3 to 1
 i: Isotope ratio deviates more than 20 % from theoretical value.
 This may be due to instrumental noise or/and chemical interference
 b: Lower than 10 times method blank.
 g: Recovery is not according to NILUs quality criteria
 TE (WHO): 2378-TCDD toxicity equivalents according to the WHO model
 (M. Van den Berg et al., 1998)

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Results of PCB Analysis



Encl. to measuring report: O-2081
 NILU-Sample number: 03/1265
 Customer: Amap 03
 Customers sample ID: 27-29.8.03 0710-0735
 : 160-160

Kjeller, 06.05.04

Sample type: Luft
 Sample amount: 1166 m3
 Concentration units: pg/m3
 Data files: VA757gml_PCB_29-03-2004

Compound:		IUPAC-no.	Concentration:		Recovery %	TE (WHO) fg/m3
Structure			pg/m3			
HCB			67,4		60	
2,2',5-TriCB	18		1,17	b		
2,4,4'-TriCB	28		1,19		60	
2,4',5-TriCB	31		1,13			
2',3,4-TriCB	33		0,90			
3,4,4'-TriCB	37		0,18			
Sum-TriCB			6,68			
2,2',4,4'-TetCB	47		0,34	b		
2,2',5,5'-TetCB	52		0,60	b	58	
2,3,4,4'-TetCB	60					
2,3',4,4'-TetCB	66		0,19	b		
2,4,4',5-TetCB	74		0,13	b		
Sum-TetCB			2,24			
2,2',4,4',5-PenCB	99		0,10	b		
2,2',4,5,5'-PenCB	101		0,26	b	85	
2,3,3',4,4'-PenCB	105		0,03	b		
2,3,4,4',5-PenCB	114	<	0,01			0,00
2,3',4,4',5-PenCB	118		0,10	b	94	0,01
2',3,3',4,5-PenCB	122	<	0,01			0,01
2',3,4,4',5-PenCB	123	<	0,01			0,00
Sum-PenCB			0,75			
2,2',3,3',4,4',5-HexCB	128		0,02	b		
2,2',3,4,4',5',5'-HexCB	138		0,11	b		
2,2',3,4,5,5',5'-HexCB	141		0,02	b		
2,2',3,4',5',6-HexCB	149		0,14	b		
2,2',4,4',5,5'-HexCB	153		0,15	b	98	
2,3,3',4,4',5-HexCB	156	<	0,01			0,01
2,3,3',4,4',5',5'-HexCB	157	<	0,01			0,01
2,3',4,4',5,5',5'-HexCB	167	<	0,01			0,00
Sum-HexCB			0,69			
2,2',3,3',4,4',5',5'-HepCB	170		0,01	b		
2,2',3,4,4',5,5',5'-HepCB	180		0,04	b	125	
2,2',3,4,4',5',6-HepCB	183	<	0,01			
2,2',3,4',5,5',6-HepCB	187		0,03	b		
2,3,3',4,4',5,5',5'-HepCB	189	<	0,01			0,00
Sum-HepCB			0,10			
2,2',3,3',4,4',5,5',5'-OctCB	194	<	0,01			
2,2',3,3',4,4',5,5',6-NonCB	206	<	0,01			
DecaCB	209	<	0,01			
Sum 7 PCB			2,45			
Sum PCB			10,5			0,03

Sum 7 PCB: PCB(28+52+101+118+138+153+180)
 Sum PCB: Sum of observed PCB (mono- and di-CB are not included)
 <: Lower than detection limit at signal-to-noise 3 to 1
 i: Isotope ratio deviates more than 20 % from theoretical value.
 This may be due to instrumental noise or/and chemical interference
 b: Lower than 10 times method blank.
 g: Recovery is not according to NILUs quality criteria
 TE (WHO): 2378-TCDD toxicity equivalents according to the WHO model
 (M. Van den Berg et al., 1998)

Results of PCB Analysis

201



Encl. to measuring report: O-2081
 NILU-Sample number: 03/1516
 Customer: Amap 03
 Customers sample ID: 3-5.9.03 0754-0737
 : 160-156
 Sample type: Luft
 Sample amount: 1171
 Concentration units: pg/m3
 Data files: VA757gml_PCB_29-03-2004

Kjeller, 06.05.04

Compound:		IUPAC-no.	Concentration:		Recovery	TE (WHO)
Structure	pg/m3		%	fg/m3		
HCB			60,3		64	
2,2',5'-TriCB	18		1,61			
2,4,4'-TriCB	28		1,61	64		
2,4',5'-TriCB	31		1,54			
2',3,4'-TriCB	33		1,22			
3,4,4'-TriCB	37		0,22			
Sum-TriCB			9,12			
2,2',4,4'-TetCB	47		0,37	b		
2,2',5,5'-TetCB	52		0,68	b	64	
2,3,4,4'-TetCB	60					
2,3',4,4'-TetCB	66		0,19	b		
2,4,4',5'-TetCB	74		0,12	b		
Sum-TetCB			2,55			
2,2',4,4',5'-PenCB	99		0,09	b		
2,2',4,5,5'-PenCB	101		0,25	b	84	
2,3,3',4,4'-PenCB	105		0,04	b		0,00
2,3,4,4',5'-PenCB	114	<	0,01			0,01
2,3',4,4',5'-PenCB	118		0,10	b	86	0,01
2',3,3',4,5'-PenCB	122	<	0,01			
2',3,4,4',5'-PenCB	123	<	0,01			0,00
Sum-PenCB			0,79			
2,2',3,3',4,4',5'-HexCB	128		0,02	b		
2,2',3,4,4',5',5'-HexCB	138		0,12	b		
2,2',3,4,5,5',5'-HexCB	141		0,02	b		
2,2',3,4',5',6'-HexCB	149		0,12	b		
2,2',4,4',5,5',5'-HexCB	153		0,18	b	94	
2,3,3',4,4',5'-HexCB	156		0,01	b		0,01
2,3,3',4,4',5',5'-HexCB	157	<	0,01			0,01
2,3',4,4',5,5',5'-HexCB	167	<	0,01			0,00
Sum-HexCB			0,69			
2,2',3,3',4,4',5'-HepCB	170		0,02	b		
2,2',3,4,4',5,5',5'-HepCB	180		0,04	b	116	
2,2',3,4,4',5',6'-HepCB	183	<	0,01			
2,2',3,4',5,5',6'-HepCB	187		0,02	b		
2,3,3',4,4',5,5',5'-HepCB	189	<	0,01			0,00
Sum-HepCB			0,12			
2,2',3,3',4,4',5,5',5'-OctCB	194	<	0,01			
2,2',3,3',4,4',5,5',6'-NonCB	206	<	0,01			
DecaCB	209	<	0,01			
Sum 7 PCB			2,99			
Sum PCB			13,3			0,03

Results of PCB Analysis



Encl. to measuring report: O-2081
 NILU-Sample number: 03/1519
 Customer: Amap 03
 Customers sample ID: 10-12.9.03 0700-0702
 : 160-157
 Sample type: Luft
 Sample amount: 1147 m3
 Concentration units: pg/m3
 Data files: DH583A_PCB_13-04-2004

Kjeller, 06.05.04

Compound:		IUPAC-no.	Concentration:		Recovery %	TE (WHO) fg/m3
Structure			pg/m3			
HCB			64,9		70	
2,2',5'-TriCB	18		4,10			
2,4,4'-TriCB	28		4,02	66		
2,4',5'-TriCB	31		3,96			
2',3,4'-TriCB	33		3,21			
3,4,4'-TriCB	37		0,43			
Sum-TriCB			23,1			
2,2',4,4'-TetCB	47		0,84 b			
2,2',5,5'-TetCB	52		1,38	59		
2,3,4,4'-TetCB	60					
2,3',4,4'-TetCB	66		0,38 b			
2,4,4',5'-TetCB	74		0,25 b			
Sum-TetCB			5,39			
2,2',4,4',5'-PenCB	99		0,23 b			
2,2',4,5,5'-PenCB	101		0,58 b	71		
2,3,3',4,4'-PenCB	105		0,12 b			0,01
2,3,4,4',5'-PenCB	114		0,02 b			0,01
2,3',4,4',5'-PenCB	118		0,48 b	71		0,05
2',3,3',4,5'-PenCB	122	<	0,01			
2',3,4,4',5'-PenCB	123	<	0,01			0,00
Sum-PenCB			3,15			
2,2',3,3',4,4'-HexCB	128		0,09 b			
2,2',3,4,4',5'-HexCB	138		0,68 b			
2,2',3,4,5,5'-HexCB	141		0,11 b			
2,2',3,4',5',6'-HexCB	149		0,45 b			
2,2',4,4',5,5'-HexCB	153		1,30 b	68		
2,3,3',4,4',5'-HexCB	156		0,04 b			0,02
2,3,3',4,4',5'-HexCB	157	<	0,01			0,01
2,3',4,4',5,5'-HexCB	167		0,03 b			0,00
Sum-HexCB			3,73			
2,2',3,3',4,4',5'-HepCB	170		0,06 b			
2,2',3,4,4',5,5'-HepCB	180		0,22 b	61		
2,2',3,4,4',5',6'-HepCB	183		0,07 b			
2,2',3,4',5,5',6'-HepCB	187		0,22 b			
2,3,3',4,4',5,5'-HepCB	189	<	0,01			0,00
Sum-HepCB			0,82			
2,2',3,3',4,4',5,5'-OctCB	194	<	0,02			
2,2',3,3',4,4',5,5',6'-NonCB	206	<	0,01			
DecaCB	209	<	0,01			
Sum 7 PCB			8,66			
Sum PCB			36,2			0,10

Sum 7 PCB: PCB(28+52+101+118+138+153+180)
 Sum PCB: Sum of observed PCB (mono- and di-CB are not included)
 <: Lower than detection limit at signal-to-noise 3 to 1
 i: Isotope ratio deviates more than 20 % from theoretical value.
 This may be due to instrumental noise or/and chemical interference
 b: Lower than 10 times method blank.
 g: Recovery is not according to NILUs quality criteria
 TE (WHO): 2378-TCDD toxicity equivalents according to the WHO model
 (M. Van den Berg et al., 1998)

Results of PCB Analysis

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Encl. to measuring report: O-2081
 NILU-Sample number: 03/1522
 Customer: Amap 03
 Customers sample ID: 17-19.9.03 0808-0726
 : 160-160
 Sample type: Luft
 Sample amount: 1140 m3
 Concentration units: pg/m3
 Data files: DH583A_PCB_13-04-2004

Kjeller, 06.05.04

Compound:		IUPAC-no.	Concentration:		Recovery %	TE (WHO) fg/m3
Structure			pg/m3			
HCb			73,8		71	
2,2',5-TriCB	18		1,79			
2,4,4'-TriCB	28		1,46		60	
2,4',5-TriCB	31		1,39			
2',3,4-TriCB	33		1,06			
3,4,4'-TriCB	37		0,14	b		
Sum-TriCB			8,55			
2,2',4,4'-TetCB	47		0,37	b		
2,2',5,5'-TetCB	52		0,73	b	54	
2,3,4,4'-TetCB	60					
2,3',4,4'-TetCB	66		0,15	b		
2,4,4',5-TetCB	74		0,11	b		
Sum-TetCB			2,47			
2,2',4,4',5-PenCB	99		0,10	b		
2,2',4,5,5'-PenCB	101		0,26	b	62	
2,3,3',4,4'-PenCB	105		0,03	b		0,00
2,3,4,4',5-PenCB	114	<	0,01			0,01
2,3',4,4',5-PenCB	118		0,09	b	57	0,01
2',3,3',4,5-PenCB	122	<	0,01			
2',3,4,4',5-PenCB	123	<	0,01			0,00
Sum-PenCB			0,92			
2,2',3,3',4,4'-HexCB	128		0,02	i,b		
2,2',3,4,4',5'-HexCB	138		0,09	b		
2,2',3,4,5,5'-HexCB	141		0,02	b		
2,2',3,4',5',6-HexCB	149		0,16	b		
2,2',4,4',5,5'-HexCB	153		0,14	b	56	
2,3,3',4,4',5-HexCB	156	<	0,01			0,01
2,3,3',4,4',5'-HexCB	157	<	0,01			0,01
2,3',4,4',5,5'-HexCB	167	<	0,01			0,00
Sum-HexCB			0,68			
2,2',3,3',4,4',5-HepCB	170	<	0,01			
2,2',3,4,4',5,5'-HepCB	180		0,04	b	50	
2,2',3,4,4',5',6-HepCB	183		0,01	b		
2,2',3,4',5,5',6-HepCB	187		0,03	b		
2,3,3',4,4',5,5'-HepCB	189	<	0,01			0,00
Sum-HepCB			0,11			
2,2',3,3',4,4',5,5'-OctCB	194	<	0,01			
2,2',3,3',4,4',5,5',6-NonCB	206	<	0,01			
DecaCB	209	<	0,01			
Sum 7 PCB			2,82			
Sum PCB			12,8			0,03

Sum 7 PCB: PCB(28+52+101+118+138+153+180)
 Sum PCB: Sum of observed PCB (mono- and di-CB are not included)
 <: Lower than detection limit at signal-to-noise 3 to 1
 i: Isotope ratio deviates more than 20 % from theoretical value.
 This may be due to instrumental noise or/and chemical interference
 b: Lower than 10 times method blank.
 g: Recovery is not according to NILUs quality criteria
 TE (WHO): 2378-TCDD toxicity equivalents according to the WHO model
 (M. Van den Berg et al., 1998)

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Results of PCB Analysis



Encl. to measuring report: O-2081
 NILU-Sample number: 03/1525
 Customer: Amap 03
 Customers sample ID: 24-26.9.03 0738-1000
 : 160-162
 Sample type: Luft
 Sample amount: 1220 m3
 Concentration units: pg/m3
 Data files: DH583A_PCB_13-04-2004

Kjeller, 06.05.04

Compound:		Concentration:	Recovery	TE (WHO)
Structure	IUPAC-no.	pg/m3	%	fg/m3
HCB		75,3	101	
2,2',5-TriCB	18	2,38		
2,4,4'-TriCB	28	1,49	64	
2,4',5-TriCB	31	1,41		
2',3,4-TriCB	33	1,09		
3,4,4'-TriCB	37	0,14 b		
Sum-TriCB		9,91		
2,2',4,4'-TetCB	47	0,36 b		
2,2',5,5'-TetCB	52	0,81	53	
2,3,4,4'-TetCB	60			
2,3',4,4'-TetCB	66	0,18 b		
2,4,4',5-TetCB	74	0,13 b		
Sum-TetCB		2,69		
2,2',4,4',5-PenCB	99	0,13 b		
2,2',4,5,5'-PenCB	101	0,31 b	54	
2,3,3',4,4'-PenCB	105	0,04 b		0,00
2,3,4,4',5-PenCB	114	< 0,01		0,01
2,3',4,4',5-PenCB	118	0,11 b	49	0,01
2'3,3',4,5-PenCB	122	< 0,01		
2',3,4,4',5-PenCB	123	< 0,01		0,00
Sum-PenCB		1,20		
2,2',3,3',4,4'-HexCB	128	< 0,01		
2,2',3,4,4',5'-HexCB	138	0,11 b		
2,2',3,4,5,5'-HexCB	141	0,02 b		
2,2',3,4',5',6-HexCB	149	0,20 b		
2,2',4,4',5,5'-HexCB	153	0,16 b	47	
2,3,3',4,4',5-HexCB	156	< 0,01 i,b		0,01
2,3,3',4,4',5'-HexCB	157	< 0,01		0,01
2,3',4,4',5,5'-HexCB	167	< 0,01		0,00
Sum-HexCB		0,63		
2,2',3,3',4,4',5-HepCB	170	< 0,01		
2,2',3,4,4',5,5'-HepCB	180	0,03 b	48	
2,2',3,4,4',5',6-HepCB	183	0,02 b		
2,2',3,4',5,5',6-HepCB	187	0,03 b		
2,3,3',4,4',5,5'-HepCB	189	< 0,01		0,00
Sum-HepCB		0,10		
2,2',3,3',4,4',5,5'-OctCB	194	< 0,01		
2,2',3,3',4,4',5,5',6-NonCB	206	< 0,01		
DecaCB	209	< 0,01		
Sum 7 PCB		3,02		
Sum PCB		14,6		0,03

Sum 7 PCB: PCB(28+52+101+118+138+153+180)
 Sum PCB: Sum of observed PCB (mono- and di-CB are not included)
 <: Lower than detection limit at signal-to-noise 3 to 1
 i: Isotope ratio deviates more than 20 % from theoretical value.
 This may be due to instrumental noise or/and chemical interference
 b: Lower than 10 times method blank.
 g: Recovery is not according to NILUs quality criteria
 TE (WHO): 2378-TCDD toxicity equivalents according to the WHO model
 (M. Van den Berg et al., 1998)

Results of PCB Analysis

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Encl. to measuring report: O-2081
 NILU-Sample number: 03/1527
 Customer: Amap 03
 Customers sample ID: 29.9-1.10.03 0722-0757
 : 160-160

Kjeller, 06.05.04

Sample type: Luft
 Sample amount: 1171 m3
 Concentration units: pg/m3
 Data files: DH584_PCB_14-04-2004-gml

Compound:		IUPAC-no.	Concentration:		Recovery %	TE (WHO) fg/m3
Structure			pg/m3			
HCb			59,4		112	
2,2',5'-TriCB	18		1,93			
2,4,4'-TriCB	28		1,27	67		
2,4',5'-TriCB	31		1,16			
2',3,4'-TriCB	33		0,89			
3,4,4'-TriCB	37		0,12 b			
Sum-TriCB			8,01			
2,2',4,4'-TetCB	47		0,29 b			
2,2',5,5'-TetCB	52		0,65 b	52		
2,3,4,4'-TetCB	60					
2,3',4,4'-TetCB	66		0,13 b			
2,4,4',5'-TetCB	74		0,10 b			
Sum-TetCB			2,17			
2,2',4,4',5'-PenCB	99		0,12 b			
2,2',4,5,5'-PenCB	101		0,29 b	40		
2,3,3',4,4'-PenCB	105		0,04 b			0,00
2,3,4,4',5'-PenCB	114	<	0,01			0,01
2,3',4,4',5'-PenCB	118		0,13 b	34		0,01
2',3,3',4,5'-PenCB	122	<	0,01			
2',3,4,4',5'-PenCB	123	<	0,01			0,00
Sum-PenCB			1,17			
2,2',3,3',4,4'-HexCB	128		0,02 b			
2,2',3,4,4',5'-HexCB	138		0,12 b			
2,2',3,4,5,5'-HexCB	141		0,03 b			
2,2',3,4',5',6'-HexCB	149		0,20 b			
2,2',4,4',5,5'-HexCB	153		0,22 b	29		
2,3,3',4,4',5'-HexCB	156	<	0,01			0,01
2,3,3',4,4',5',5'-HexCB	157	<	0,01			0,01
2,3',4,4',5,5'-HexCB	167	<	0,01			0,00
Sum-HexCB			0,82			
2,2',3,3',4,4',5'-HepCB	170	<	0,01			
2,2',3,4,4',5,5'-HepCB	180		0,05 b	28		
2,2',3,4,4',5',6'-HepCB	183		0,01 b			
2,2',3,4',5,5',6'-HepCB	187		0,04 b			
2,3,3',4,4',5,5'-HepCB	189	<	0,01			0,00
Sum-HepCB			0,12			
2,2',3,3',4,4',5,5'-OctCB	194	<	0,02			
2,2',3,3',4,4',5,5',6'-NonCB	206	<	0,01			
DecaCB	209	<	0,01			
Sum 7 PCB			2,72			
Sum PCB			12,3			0,03

Sum 7 PCB: PCB(28+52+101+118+138+153+180)
 Sum PCB: Sum of observed PCB (mono- and di-CB are not included)
 <: Lower than detection limit at signal-to-noise 3 to 1
 i: Isotope ratio deviates more than 20 % from theoretical value.
 This may be due to instrumental noise or/and chemical interference
 b: Lower than 10 times method blank.
 g: Recovery is not according to NILUs quality criteria
 TE (WHO): 2378-TCDD toxicity equivalents according to the WHO model
 (M. Van den Berg et al., 1998)

4. versjon 27.08.2003 GSK

Results of PCB Analysis



Encl. to measuring report: O-2081
 NILU-Sample number: 03/1756
 Customer: Amap 03
 Customers sample ID: 8-10.10.03 0737-0917
 : 160-150

Kjeller, 06.05.04

Sample type: Luft
 Sample amount: 1161 m3
 Concentration units: pg/m3
 Data files: DH584_PCB_14-04-2004-gml

Compound:		Concentration:	Recovery	TE (WHO)
Structure	IUPAC-no.	pg/m3	%	fg/m3
HCB		61,0	62	
2,2',5'-TriCB	18	2,81		
2,4,4'-TriCB	28	2,43	76	
2,4',5'-TriCB	31	2,27		
2',3,4'-TriCB	33	1,76		
3,4,4'-TriCB	37	0,30		
Sum-TriCB		13,9		
2,2',4,4'-TetCB	47	0,60 b		
2,2',5,5'-TetCB	52	1,23	81	
2,3,4,4'-TetCB	60			
2,3',4,4'-TetCB	66	0,34 b		
2,4,4',5'-TetCB	74	0,22 b		
Sum-TetCB		4,37		
2,2',4,4',5'-PenCB	99	0,20 b		
2,2',4,5,5'-PenCB	101	0,54 b	98	
2,3,3',4,4'-PenCB	105	0,06 b		0,01
2,3,4,4',5'-PenCB	114	< 0,01		0,01
2,3',4,4',5'-PenCB	118	0,20 b	92	0,02
2',3,3',4,5'-PenCB	122	< 0,01		
2',3,4,4',5'-PenCB	123	< 0,01		0,00
Sum-PenCB		1,79		
2,2',3,3',4,4'-HexCB	128	0,02 b		
2,2',3,4,4',5'-HexCB	138	0,15 b		
2,2',3,4,5,5'-HexCB	141	0,04 b		
2,2',3,4',5',6'-HexCB	149	0,27 b		
2,2',4,4',5,5'-HexCB	153	0,23 b	90	
2,3,3',4,4',5'-HexCB	156	0,01 b		0,01
2,3,3',4,4',5'-HexCB	157	< 0,01		0,01
2,3',4,4',5,5'-HexCB	167	< 0,01		0,00
Sum-HexCB		1,17		
2,2',3,3',4,4',5'-HepCB	170	0,01 b		
2,2',3,4,4',5,5'-HepCB	180	0,05 b	95	
2,2',3,4,4',5',6'-HepCB	183	0,02 b		
2,2',3,4',5,5',6'-HepCB	187	0,04 b		
2,3,3',4,4',5,5'-HepCB	189	< 0,01		0,00
Sum-HepCB		0,21		
2,2',3,3',4,4',5,5'-OctCB	194	< 0,01		
2,2',3,3',4,4',5,5',6'-NonCB	206	< 0,01		
DecaCB	209	< 0,01		
Sum 7 PCB		4,82		
Sum PCB		21,5		0,04

Sum 7 PCB: PCB(28+52+101+118+138+153+180)
 Sum PCB: Sum of observed PCB (mono- and di-CB are not included)
 <: Lower than detection limit at signal-to-noise 3 to 1
 i: Isotope ratio deviates more than 20 % from theoretical value.
 This may be due to instrumental noise or/and chemical interference
 b: Lower than 10 times method blank.
 g: Recovery is not according to NILUs quality criteria
 TE (WHO): 2378-TCDD toxicity equivalents according to the WHO model
 (M. Van den Berg et al., 1998)

Results of PCB Analysis

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Encl. to measuring report: O-2081
 NILU-Sample number: 03/1758
 Customer: Amap 03
 Customers sample ID: 13-16.10.03 0650-0723
 : 160-145

Kjeller, 06.05.04

Sample type: Luft
 Sample amount: 1670 m³
 Concentration units: pg/m³
 Data files: DH584_PCB_14-04-2004-gml

Compound:		IUPAC-no.	Concentration:		Recovery %	TE (WHO) fg/m ³
Structure	HCB		pg/m ³			
	HCB		43,5		67	
2,2',5'-TriCB	18		1,75			
2,4,4'-TriCB	28		1,55		80	
2,4',5'-TriCB	31		1,48			
2',3,4'-TriCB	33		1,18			
3,4,4'-TriCB	37		0,18			
	Sum-TriCB		8,96			
2,2',4,4'-TetCB	47		0,36	b		
2,2',5,5'-TetCB	52		0,77		80	
2,3,4,4'-TetCB	60					
2,3',4,4'-TetCB	66		0,20	b		
2,4,4',5'-TetCB	74		0,14	b		
	Sum-TetCB		2,74			
2,2',4,4',5'-PenCB	99		0,12	b		
2,2',4,5,5'-PenCB	101		0,31	b	99	
2,3,3',4,4'-PenCB	105		0,04	b		0,00
2,3,4,4',5'-PenCB	114	<	0,01			0,01
2,3',4,4',5'-PenCB	118		0,11	b	91	0,01
2'3,3',4,5'-PenCB	122	<	0,01			
2',3,4,4',5'-PenCB	123	<	0,01			0,00
	Sum-PenCB		1,11			
2,2',3,3',4,4'-HexCB	128		0,02	b		
2,2',3,4,4',5'-HexCB	138		0,09	b		
2,2',3,4,5,5'-HexCB	141		0,02	b		
2,2',3,4',5',6'-HexCB	149		0,17	b		
2,2',4,4',5,5'-HexCB	153		0,13	b	87	
2,3,3',4,4',5'-HexCB	156	<	0,01			0,01
2,3,3',4,4',5'-HexCB	157	<	0,01			0,01
2,3',4,4',5,5'-HexCB	167	<	0,01			0,00
	Sum-HexCB		0,72			
2,2',3,3',4,4',5'-HepCB	170	<	0,01			
2,2',3,4,4',5,5'-HepCB	180		0,03	b	88	
2,2',3,4,4',5',6'-HepCB	183		0,01	b		
2,2',3,4',5,5',6'-HepCB	187		0,02	b		
2,3,3',4,4',5,5'-HepCB	189	<	0,01			0,00
	Sum-HepCB		0,13			
2,2',3,3',4,4',5,5'-OctCB	194	<	0,01			
2,2',3,3',4,4',5,5',6'-NonCB	206	<	0,01			
DecaCB	209	<	0,01			
	Sum 7 PCB		2,99			
	Sum PCB		13,7			0,03

Sum 7 PCB: PCB(28+52+101+118+138+153+180)
 Sum PCB: Sum of observed PCB (mono- and di-CB are not included)
 <: Lower than detection limit at signal-to-noise 3 to 1
 i: Isotope ratio deviates more than 20 % from theoretical value.
 This may be due to instrumental noise or/and chemical interference
 b: Lower than 10 times method blank.
 g: Recovery is not according to NILUs quality criteria
 TE (WHO): 2378-TCDD toxicity equivalents according to the WHO model
 (M. Van den Berg et al., 1998)

4. versjon 27.08.2003 GSK

Results of PCB Analysis



Encl. to measuring report: O-2081
 NILU-Sample number: 03/1761
 Customer: Amap 03
 Customers sample ID: 20-22.10.03 0730-0850
 : 160-160
 Sample type: Luft
 Sample amount: 1188 m3
 Concentration units: pg/m3
 Data files: DH583A_PCB_13-04-2004

Kjeller, 06.05.04

Compound:		IUPAC-no.	Concentration:		Recovery	TE (WHO)
Structure	pg/m3		%	fg/m3		
HCB			72,9		53	
2,2',5'-TriCB	18		1,99			
2,4,4'-TriCB	28		1,71		63	
2,4',5'-TriCB	31		1,60			
2',3,4'-TriCB	33		1,24			
3,4,4'-TriCB	37		0,20			
Sum-TriCB			9,80			
2,2',4,4'-TetCB	47		0,47	b		
2,2',5,5'-TetCB	52		1,01		66	
2,3,4,4'-TetCB	60					
2,3',4,4'-TetCB	66		0,29	b		
2,4,4',5'-TetCB	74		0,19	b		
Sum-TetCB			3,58			
2,2',4,4',5'-PenCB	99		0,18	b		
2,2',4,5,5'-PenCB	101		0,52	b	87	
2,3,3',4,4'-PenCB	105		0,07	b		0,01
2,3,4,4',5'-PenCB	114	<	0,01			0,01
2,3',4,4',5'-PenCB	118		0,22	b	81	0,02
2',3,3',4,5'-PenCB	122	<	0,01			
2',3,4,4',5'-PenCB	123	<	0,01			0,00
Sum-PenCB			1,86			
2,2',3,3',4,4'-HexCB	128		0,02	b		
2,2',3,4,4',5'-HexCB	138		0,15	b		
2,2',3,4,5,5'-HexCB	141		0,03	b		
2,2',3,4',5',6'-HexCB	149		0,27	b		
2,2',4,4',5,5'-HexCB	153		0,24	b	81	
2,3,3',4,4',5'-HexCB	156		0,01	b		0,01
2,3,3',4,4',5'-HexCB	157	<	0,01			0,01
2,3',4,4',5,5'-HexCB	167	<	0,01			0,00
Sum-HexCB			1,18			
2,2',3,3',4,4',5'-HepCB	170		0,01	b		
2,2',3,4,4',5,5'-HepCB	180		0,05	b	77	
2,2',3,4,4',5',6'-HepCB	183		0,02	b		
2,2',3,4',5,5',6'-HepCB	187		0,04	b		
2,3,3',4,4',5,5'-HepCB	189	<	0,01			0,00
Sum-HepCB			0,21			
2,2',3,3',4,4',5,5'-OctCB	194	<	0,01			
2,2',3,3',4,4',5,5',6'-NonCB	206	<	0,01			
DecaCB	209	<	0,01			
Sum 7 PCB			3,90			
Sum PCB			16,7			0,05

Sum 7 PCB: PCB(28+52+101+118+138+153+180)
 Sum PCB: Sum of observed PCB (mono- and di-CB are not included)
 <: Lower than detection limit at signal-to-noise 3 to 1
 i: Isotope ratio deviates more than 20 % from theoretical value.
 This may be due to instrumental noise or/and chemical interference
 b: Lower than 10 times method blank.
 g: Recovery is not according to NILUs quality criteria
 TE (WHO): 2378-TCDD toxicity equivalents according to the WHO model
 (M. Van den Berg et al., 1998)

Results of PCB Analysis

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Encl. to measuring report: O-2081
 NILU-Sample number: 03/1765
 Customer: Amap 03
 Customers sample ID: 29-31.10.03 0948-0834
 : 160-163
 Sample type: Luft
 Sample amount: 1135 m3
 Concentration units: pg/m3
 Data files: DH583A_PCB_13-04-2004

Kjeller, 06.05.04

Compound:		Concentration:	Recovery	TE (WHO)
Structure	IUPAC-no.	pg/m3	%	fg/m3
HCB		64,6	48	
2,2',5'-TriCB	18	1,95		
2,4,4'-TriCB	28	1,45	61	
2,4',5'-TriCB	31	1,25		
2',3,4'-TriCB	33	0,91		
3,4,4'-TriCB	37	0,18		
Sum-TriCB		8,51		
2,2',4,4'-TetCB	47	0,38 b		
2,2',5,5'-TetCB	52	1,10	64	
2,3,4,4'-TetCB	60			
2,3',4,4'-TetCB	66	0,30 b		
2,4,4',5'-TetCB	74	0,20 b		
Sum-TetCB		3,55		
2,2',4,4',5'-PenCB	99	0,26 b		
2,2',4,5,5'-PenCB	101	1,05	90	
2,3,3',4,4'-PenCB	105	0,40		0,04
2,3,4,4',5'-PenCB	114	0,02 b		0,01
2,3',4,4',5'-PenCB	118	0,96	85	0,10
2',3,3',4,5'-PenCB	122	< 0,01		
2',3,4,4',5'-PenCB	123	< 0,01		0,00
Sum-PenCB		5,45		
2,2',3,3',4,4',5'-HexCB	128	0,18 b		
2,2',3,4,4',5,5'-HexCB	138	0,76		
2,2',3,4,5,5'-HexCB	141	0,11 b		
2,2',3,4',5',6'-HexCB	149	0,48 b		
2,2',4,4',5,5'-HexCB	153	0,72	83	
2,3,3',4,4',5'-HexCB	156	0,16		0,08
2,3,3',4,4',5'-HexCB	157	0,02		0,01
2,3',4,4',5,5'-HexCB	167	0,03 b		0,00
Sum-HexCB		3,58		
2,2',3,3',4,4',5'-HepCB	170	0,05 b		
2,2',3,4,4',5,5'-HepCB	180	0,14	87	
2,2',3,4,4',5',6'-HepCB	183	0,02 b		
2,2',3,4',5,5',6'-HepCB	187	0,06 b		
2,3,3',4,4',5,5'-HepCB	189	< 0,01		0,00
Sum-HepCB		0,42		
2,2',3,3',4,4',5,5'-OctCB	194	< 0,01		
2,2',3,3',4,4',5,5',6'-NonCB	206	< 0,01		
DecaCB	209	< 0,01		
Sum 7 PCB		6,17		
Sum PCB		21,5		0,24

Sum 7 PCB: PCB(28+52+101+118+138+153+180)
 Sum PCB: Sum of observed PCB (mono- and di-CB are not included)
 <: Lower than detection limit at signal-to-noise 3 to 1
 i: Isotope ratio deviates more than 20 % from theoretical value.
 This may be due to instrumental noise or/and chemical interference
 b: Lower than 10 times method blank.
 g: Recovery is not according to NILUs quality criteria
 TE (WHO): 2378-TCDD toxicity equivalents according to the WHO model
 (M. Van den Berg et al., 1998)

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Results of PCB Analysis



Encl. to measuring report: O-2081
 NILU-Sample number: 03/1768
 Customer: Amap 03
 Customers sample ID: 5-7.11.03 1020-0905
 : 160-156
 Sample type: Luft
 Sample amount: 1111 m3
 Concentration units: pg/m3
 Data files: DH583A_PCB_13-04-2004

Kjeller, 06.05.04

Compound:		Concentration:	Recovery	TE (WHO)
Structure	IUPAC-no.	pg/m3	%	fg/m3
HCB		61,6	55	
2,2',5'-TriCB	18	3,06		
2,4,4'-TriCB	28	2,17	68	
2,4',5'-TriCB	31	2,01		
2',3,4'-TriCB	33	1,47		
3,4,4'-TriCB	37	0,23		
Sum-TriCB		13,3		
2,2',4,4'-TetCB	47	0,59 b		
2,2',5,5'-TetCB	52	1,36	68	
2,3,4,4'-TetCB	60			
2,3',4,4'-TetCB	66	0,38 b		
2,4,4',5'-TetCB	74	0,26 b		
Sum-TetCB		4,80		
2,2',4,4',5'-PenCB	99	0,25 b		
2,2',4,5,5'-PenCB	101	0,64 b	90	
2,3,3',4,4'-PenCB	105	0,09 b		0,01
2,3,4,4',5'-PenCB	114	< 0,01		0,01
2,3',4,4',5'-PenCB	118	0,28 b	82	0,03
2',3,3',4,5'-PenCB	122	< 0,01		
2',3,4,4',5'-PenCB	123	< 0,01		0,00
Sum-PenCB		2,55		
2,2',3,3',4,4'-HexCB	128	0,04 b		
2,2',3,4,4',5'-HexCB	138	0,23 b		
2,2',3,4,5,5'-HexCB	141	0,06 b		
2,2',3,4',5,6'-HexCB	149	0,37 b		
2,2',4,4',5,5'-HexCB	153	0,34 b	82	
2,3,3',4,4',5'-HexCB	156	0,02 b		0,01
2,3,3',4,4',5'-HexCB	157	< 0,01		0,01
2,3',4,4',5,5'-HexCB	167	< 0,01		0,00
Sum-HexCB		1,73		
2,2',3,3',4,4',5'-HepCB	170	0,02 b		
2,2',3,4,4',5,5'-HepCB	180	0,07 b	78	
2,2',3,4,4',5',6'-HepCB	183	0,02 b		
2,2',3,4',5,5',6'-HepCB	187	0,07 b		
2,3,3',4,4',5,5'-HepCB	189	< 0,01		0,00
Sum-HepCB		0,35		
2,2',3,3',4,4',5,5'-OctCB	194	< 0,02		
2,2',3,3',4,4',5,5',6'-NonCB	206	< 0,01		
DecaCB	209	< 0,01		
Sum 7 PCB		5,10		
Sum PCB		22,7		0,06

Sum 7 PCB: PCB(28+52+101+118+138+153+180)
 Sum PCB: Sum of observed PCB (mono- and di-CB are not included)
 <: Lower than detection limit at signal-to-noise 3 to 1
 i: Isotope ratio deviates more than 20 % from theoretical value.
 This may be due to instrumental noise or/and chemical interference
 b: Lower than 10 times method blank.
 g: Recovery is not according to NILUs quality criteria
 TE (WHO): 2378-TCDD toxicity equivalents according to the WHO model
 (M. Van den Berg et al., 1998)

4. versjon 27.08.2003 GSK

Results of PCB Analysis

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Encl. to measuring report: O-2081
 NILU-Sample number: 04/106
 Customer: Amap 03
 Customers sample ID: 12-14.11.03 0913-0937
 : 160-161
 Sample type: Luft
 Sample amount: 1169 m3
 Concentration units: pg/m3
 Data files: DH583A_PCB_13-04-2004

Kjeller, 06.05.04

Compound:		IUPAC-no.	Concentration:		Recovery %	TE (WHO) fg/m3
Structure			pg/m3			
HCB			66,2		51	
2,2',5'-TriCB	18		1,55			
2,4,4'-TriCB	28		1,22		67	
2,4',5'-TriCB	31		0,95			
2',3,4'-TriCB	33		0,67			
3,4,4'-TriCB	37		0,10	b		
Sum-TriCB			6,60			
2,2',4,4'-TetCB	47		0,36	b		
2,2',5,5'-TetCB	52		0,99		69	
2,3,4,4'-TetCB	60					
2,3',4,4'-TetCB	66		0,21	b		
2,4,4',5'-TetCB	74		0,15	b		
Sum-TetCB			2,82			
2,2',4,4',5'-PenCB	99		0,16	b		
2,2',4,5,5'-PenCB	101		0,95	b	98	
2,3,3',4,4'-PenCB	105		0,26			0,03
2,3,4,4',5'-PenCB	114	<	0,01			0,01
2,3',4,4',5'-PenCB	118		0,75		96	0,08
2',3,3',4,5'-PenCB	122	<	0,01			
2',3,4,4',5'-PenCB	123	<	0,01			0,00
Sum-PenCB			2,73			
2,2',3,3',4,4',5'-HexCB	128		0,03	b		
2,2',3,4,4',5'-HexCB	138		0,54	b		
2,2',3,4,5,5'-HexCB	141		0,04	b		
2,2',3,4',5',6'-HexCB	149		0,25	b		
2,2',4,4',5,5'-HexCB	153		0,79	b	94	
2,3,3',4,4',5'-HexCB	156		0,14			0,07
2,3,3',4,4',5'-HexCB	157	<	0,01			0,01
2,3',4,4',5,5'-HexCB	167	<	0,01			0,00
Sum-HexCB			2,27			
2,2',3,3',4,4',5'-HepCB	170		0,02	b		
2,2',3,4,4',5,5'-HepCB	180		0,19	b	90	
2,2',3,4,4',5',6'-HepCB	183		0,03	b		
2,2',3,4',5,5',6'-HepCB	187		0,07	b		
2,3,3',4,4',5,5'-HepCB	189	<	0,01			0,00
Sum-HepCB			0,43			
2,2',3,3',4,4',5,5'-OctCB	194	<	0,02			
2,2',3,3',4,4',5,5',6'-NonCB	206	<	0,01			
DecaCB	209	<	0,01			
Sum 7 PCB			5,43			
Sum PCB			14,9			0,19

Sum 7 PCB: PCB(28+52+101+118+138+153+180)
 Sum PCB: Sum of observed PCB (mono- and di-CB are not included)
 <: Lower than detection limit at signal-to-noise 3 to 1
 i: Isotope ratio deviates more than 20 % from theoretical value.
 This may be due to instrumental noise or/and chemical interference
 b: Lower than 10 times method blank.
 g: Recovery is not according to NILUs quality criteria
 TE (WHO): 2378-TCDD toxicity equivalents according to the WHO model
 (M. Van den Berg et al., 1998)

4. versjon 27.08.2003 GSK

Results of PCB Analysis



Encl. to measuring report: O-2081
 NILU-Sample number: 04/109
 Customer: Amap 03
 Customers sample ID: 19-21.11.03 0843-0836
 : 160-154
 Sample type: Luft
 Sample amount: 1133 m3
 Concentration units: pg/m3
 Data files: DH583A_PCB_13-04-2004

Kjeller, 06.05.04

Compound:		Concentration:	Recovery	TE (WHO)
Structure	IUPAC-no.	pg/m3	%	fg/m3
HCB		64,8	53	
2,2',5'-TriCB	18	2,51		
2,4,4'-TriCB	28	1,78	65	
2,4',5'-TriCB	31	1,70		
2',3,4'-TriCB	33	1,27		
3,4,4'-TriCB	37	0,19		
Sum-TriCB		10,9		
2,2',4,4'-TetCB	47	0,46 b		
2,2',5,5'-TetCB	52	1,08	65	
2,3,4,4'-TetCB	60			
2,3',4,4'-TetCB	66	0,27 b		
2,4,4',5'-TetCB	74	0,19 b		
Sum-TetCB		3,73		
2,2',4,4',5'-PenCB	99	0,17 b		
2,2',4,5,5'-PenCB	101	0,44 b	82	
2,3,3',4,4'-PenCB	105	0,05 b		0,00
2,3,4,4',5'-PenCB	114	< 0,01		0,01
2,3',4,4',5'-PenCB	118	0,17 b	76	0,02
2',3,3',4,5'-PenCB	122	< 0,01		
2',3,4,4',5'-PenCB	123	< 0,01		0,00
Sum-PenCB		1,60		
2,2',3,3',4,4'-HexCB	128	0,02 b		
2,2',3,4,4',5'-HexCB	138	0,13 b		
2,2',3,4,5,5'-HexCB	141	0,03 b		
2,2',3,4',5',6'-HexCB	149	0,27 b		
2,2',4,4',5,5'-HexCB	153	0,23 b	76	
2,3,3',4,4',5'-HexCB	156	< 0,01		0,01
2,3,3',4,4',5'-HexCB	157	< 0,01		0,01
2,3',4,4',5,5'-HexCB	167	< 0,01		0,00
Sum-HexCB		1,13		
2,2',3,3',4,4',5'-HepCB	170	0,01 b		
2,2',3,4,4',5,5'-HepCB	180	0,05 b	77	
2,2',3,4,4',5',6'-HepCB	183	0,02 b		
2,2',3,4',5,5',6'-HepCB	187	0,05 b		
2,3,3',4,4',5,5'-HepCB	189	< 0,01		0,00
Sum-HepCB		0,19		
2,2',3,3',4,4',5,5'-OctCB	194	< 0,01		
2,2',3,3',4,4',5,5',6'-NonCB	206	< 0,01		
DecaCB	209	< 0,01		
Sum 7 PCB		3,88		
Sum PCB		17,6		0,04

Sum 7 PCB: PCB(28+52+101+118+138+153+180)
 Sum PCB: Sum of observed PCB (mono- and di-CB are not included)
 <: Lower than detection limit at signal-to-noise 3 to 1
 i: Isotope ratio deviates more than 20 % from theoretical value.
 This may be due to instrumental noise or/and chemical interference
 b: Lower than 10 times method blank.
 g: Recovery is not according to NILUs quality criteria
 TE (WHO): 2378-TCDD toxicity equivalents according to the WHO model
 (M. Van den Berg et al., 1998)

4. versjon 27.08.2003 GSK

Results of PCB Analysis

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Encl. to measuring report: O-2081
 NILU-Sample number: 04/112
 Customer: Amap 03
 Customers sample ID: 26-28.11.03 0854-0751
 : 160-158
 Sample type: Luft
 Sample amount: 1126 m3
 Concentration units: pg/m3
 Data files: DH583A_PCB_13-04-2004

Kjeller, 06.05.04

Compound:		Concentration:	Recovery	TE (WHO)
Structure	IUPAC-no.	pg/m3	%	fg/m3
HCB		62,0	49	
2,2',5-TriCB	18	1,91		
2,4,4'-TriCB	28	1,32	64	
2,4',5-TriCB	31	1,26		
2',3,4-TriCB	33	0,91		
3,4,4'-TriCB	37	0,15 b		
Sum-TriCB		8,12		
2,2',4,4'-TetCB	47	0,45 b		
2,2',5,5'-TetCB	52	0,99	65	
2,3,4,4'-TetCB	60			
2,3',4,4'-TetCB	66	0,28 b		
2,4,4',5-TetCB	74	0,20 b		
Sum-TetCB		3,51		
2,2',4,4',5-PenCB	99	0,20 b		
2,2',4,5,5'-PenCB	101	0,50 b	87	
2,3,3',4,4'-PenCB	105	0,06 b		0,01
2,3,4,4',5-PenCB	114	0,01 b		0,01
2,3',4,4',5-PenCB	118	0,20 b	81	0,02
2'3,3',4,5-PenCB	122	< 0,01		
2',3,4,4',5-PenCB	123	< 0,01		0,00
Sum-PenCB		1,90		
2,2',3,3',4,4'-HexCB	128	0,03 b		
2,2',3,4,4',5'-HexCB	138	0,19 b		
2,2',3,4,5,5'-HexCB	141	0,04 b		
2,2',3,4',5',6-HexCB	149	0,31 b		
2,2',4,4',5,5'-HexCB	153	0,28 b	81	
2,3,3',4,4',5-HexCB	156	0,01 b		0,01
2,3,3',4,4',5'-HexCB	157	< 0,01		0,01
2,3',4,4',5,5'-HexCB	167	< 0,01		0,00
Sum-HexCB		1,42		
2,2',3,3',4,4',5-HepCB	170	0,02 b		
2,2',3,4,4',5,5'-HepCB	180	0,07 b	79	
2,2',3,4,4',5',6-HepCB	183	0,02 b		
2,2',3,4',5,5',6-HepCB	187	0,06 b		
2,3,3',4,4',5,5'-HepCB	189	< 0,01		0,00
Sum-HepCB		0,32		
2,2',3,3',4,4',5,5'-OctCB	194	< 0,02		
2,2',3,3',4,4',5,5',6-NonCB	206	< 0,01		
DecaCB	209	< 0,01		
Sum 7 PCB		3,54		
Sum PCB		15,3		0,05

Sum 7 PCB: PCB(28+52+101+118+138+153+180)
 Sum PCB: Sum of observed PCB (mono- and di-CB are not included)
 <: Lower than detection limit at signal-to-noise 3 to 1
 i: Isotope ratio deviates more than 20 % from theoretical value.
 This may be due to instrumental noise or/and chemical interference
 b: Lower than 10 times method blank.
 g: Recovery is not according to NILUs quality criteria
 TE (WHO): 2378-TCDD toxicity equivalents according to the WHO model
 (M. Van den Berg et al., 1998)

4. versjon 27.08.2003 GSK

Results of PCB Analysis



Encl. to measuring report: O-2081
 NILU-Sample number: 04/115
 Customer: Amap 03
 Customers sample ID: 3-5.12.03 0855-0848
 : 160-170
 Sample type: Luft
 Sample amount: 1193 m3
 Concentration units: pg/m3
 Data files: DH583A_PCB_13-04-2004

Kjeller, 06.05.04

Compound:		Concentration:	Recovery	TE (WHO)
Structure	IUPAC-no.	pg/m3	%	fg/m3
HCb		59,4	52	
2,2',5'-TriCB	18	1,54		
2,4,4'-TriCB	28	0,92	66	
2,4',5'-TriCB	31	0,89		
2',3,4'-TriCB	33	0,63		
3,4,4'-TriCB	37	0,09 b		
Sum-TriCB		6,00		
2,2',4,4'-TetCB	47	0,34 b		
2,2',5,5'-TetCB	52	0,72 b	66	
2,3,4,4'-TetCB	60			
2,3',4,4'-TetCB	66	0,16 b		
2,4,4',5'-TetCB	74	0,12 b		
Sum-TetCB		2,37		
2,2',4,4',5'-PenCB	99	0,11 b		
2,2',4,5,5'-PenCB	101	0,28 b	90	
2,3,3',4,4'-PenCB	105	0,03 b		0,00
2,3,4,4',5'-PenCB	114	< 0,01		0,01
2,3',4,4',5'-PenCB	118	0,10 b	89	0,01
2',3,3',4,5'-PenCB	122	< 0,01		
2',3,4,4',5'-PenCB	123	< 0,01		0,00
Sum-PenCB		0,92		
2,2',3,3',4,4'-HexCB	128	0,01 b		
2,2',3,4,4',5'-HexCB	138	0,08 b		
2,2',3,4,5,5'-HexCB	141	0,02 b		
2,2',3,4',5',6'-HexCB	149	0,16 b		
2,2',4,4',5,5'-HexCB	153	0,14 b	87	
2,3,3',4,4',5'-HexCB	156	< 0,01		0,01
2,3,3',4,4',5'-HexCB	157	< 0,01		0,01
2,3',4,4',5,5'-HexCB	167	< 0,01		0,00
Sum-HexCB		0,67		
2,2',3,3',4,4',5'-HepCB	170	< 0,01		
2,2',3,4,4',5,5'-HepCB	180	0,04 b	84	
2,2',3,4,4',5',6'-HepCB	183	< 0,01		
2,2',3,4',5,5',6'-HepCB	187	0,03 b		
2,3,3',4,4',5,5'-HepCB	189	< 0,01		0,00
Sum-HepCB		0,13		
2,2',3,3',4,4',5,5'-OctCB	194	< 0,01		
2,2',3,3',4,4',5,5',6'-NonCB	206	< 0,01		
DecaCB	209	< 0,01		
Sum 7 PCB		2,27		
Sum PCB		10,1		0,03

Sum 7 PCB: PCB(28+52+101+118+138+153+180)
 Sum PCB: Sum of observed PCB (mono- and di-CB are not included)
 <: Lower than detection limit at signal-to-noise 3 to 1
 i: Isotope ratio deviates more than 20 % from theoretical value.
 This may be due to instrumental noise or/and chemical interference
 b: Lower than 10 times method blank.
 g: Recovery is not according to NILUs quality criteria
 TE (WHO): 2378-TCDD toxicity equivalents according to the WHO model
 (M. Van den Berg et al., 1998)

4. versjon 27.08.2003 GSK

Results of PCB Analysis



Encl. to measuring report: O-2081
 NILU-Sample number: 04/118
 Customer: Amap 03
 Customers sample ID: 10-12.12.03 1030-0852
 : 160-152
 Sample type: Luft
 Sample amount: 1083 m3
 Concentration units: pg/m3
 Data files: DH582_PCB_13-04-2004-gml

Kjeller, 06.05.04

Compound:		Concentration:	Recovery	TE (WHO)
Structure	IUPAC-no.	pg/m3	%	fg/m3
HCB		66,2	57	
2,2',5'-TriCB	18	2,85		
2,4,4'-TriCB	28	1,47	68	
2,4',5'-TriCB	31	1,36 b		
2',3,4'-TriCB	33	0,91		
3,4,4'-TriCB	37	0,14 b		
Sum-TriCB		30,2		
2,2',4,4'-TetCB	47	0,41 b		
2,2',5,5'-TetCB	52	1,14 b	68	
2,3,4,4'-TetCB	60			
2,3',4,4'-TetCB	66	0,30 b		
2,4,4',5'-TetCB	74	0,22 b		
Sum-TetCB		11,3		
2,2',4,4',5'-PenCB	99	0,22		
2,2',4,5,5'-PenCB	101	0,47 b	89	
2,3,3',4,4'-PenCB	105	0,07 b		0,01
2,3,4,4',5'-PenCB	114	0,01		0,01
2,3',4,4',5'-PenCB	118	0,24 b	81	0,02
2',3,3',4,5'-PenCB	122	< 0,01		
2',3,4,4',5'-PenCB	123	< 0,01		0,00
Sum-PenCB		5,44		
2,2',3,3',4,4'-HexCB	128	0,03 b		
2,2',3,4,4',5'-HexCB	138	0,15 b		
2,2',3,4,5,5'-HexCB	141	0,04 b		
2,2',3,4',5',6'-HexCB	149	0,23 b		
2,2',4,4',5,5'-HexCB	153	0,23 b	78	
2,3,3',4,4',5'-HexCB	156	0,01 b		0,01
2,3,3',4,4',5'-HexCB	157	< 0,01		0,01
2,3',4,4',5,5'-HexCB	167	< 0,01		0,00
Sum-HexCB		3,43		
2,2',3,3',4,4',5'-HepCB	170	0,01		
2,2',3,4,4',5,5'-HepCB	180	0,05 b	82	
2,2',3,4,4',5',6'-HepCB	183	0,02		
2,2',3,4',5,5',6'-HepCB	187	0,04 b		
2,3,3',4,4',5,5'-HepCB	189	< 0,01		0,00
Sum-HepCB		0,58		
2,2',3,3',4,4',5,5'-OctCB	194	< 0,01		
2,2',3,3',4,4',5,5',6'-NonCB	206	< 0,01		
DecaCB	209	0,01		
Sum 7 PCB		3,76		
Sum PCB		51,0		0,05

Sum 7 PCB: PCB(28+52+101+118+138+153+180)
 Sum PCB: Sum of observed PCB (mono- and di-CB are not included)
 <: Lower than detection limit at signal-to-noise 3 to 1
 i: Isotope ratio deviates more than 20 % from theoretical value.
 This may be due to instrumental noise or/and chemical interference
 b: Lower than 10 times method blank.
 g: Recovery is not according to NILUs quality criteria
 TE (WHO): 2378-TCDD toxicity equivalents according to the WHO model
 (M. Van den Berg et al., 1998)

4. versjon 27.08.2003 GSK

Results of PCB Analysis



Encl. to measuring report: O-2081
 NILU-Sample number: 04/121
 Customer: Amap 03
 Customers sample ID: 17-19.12.03 0940-0845
 : 160-160
 Sample type: Luft
 Sample amount: 1130 m3
 Concentration units: pg/m3
 Data files: DH584_PCB_14-04-2004-gml

Kjeller, 06.05.04

Compound:		Concentration:	Recovery	TE (WHO)
Structure	IUPAC-no.	pg/m3	%	fg/m3
HCb		59,6	70	
2,2',5-TriCB	18	3,14		
2,4,4'-TriCB	28	1,39	64	
2,4',5-TriCB	31	1,27		
2',3,4-TriCB	33	0,85		
3,4,4'-TriCB	37	0,12 b		
Sum-TriCB		10,2		
2,2',4,4'-TetCB	47	0,39 b		
2,2',5,5'-TetCB	52	1,07	57	
2,3,4,4'-TetCB	60			
2,3',4,4'-TetCB	66	0,24 b		
2,4,4',5-TetCB	74	0,18 b		
Sum-TetCB		3,32		
2,2',4,4',5-PenCB	99	0,19 b		
2,2',4,5,5'-PenCB	101	0,41 b	65	
2,3,3',4,4'-PenCB	105	0,07 b		0,01
2,3,4,4',5-PenCB	114	0,02 b		0,01
2,3',4,4',5-PenCB	118	0,20 b	59	0,02
2'3,3',4,5-PenCB	122	< 0,01		
2',3,4,4',5-PenCB	123	< 0,01		0,00
Sum-PenCB		1,52		
2,2',3,3',4,4'-HexCB	128	0,03 b		
2,2',3,4,4',5'-HexCB	138	0,14 b		
2,2',3,4,5,5'-HexCB	141	0,03 b		
2,2',3,4',5,6-HexCB	149	0,20 b		
2,2',4,4',5,5'-HexCB	153	0,18 b	54	
2,3,3',4,4',5-HexCB	156	0,02 b		0,01
2,3,3',4,4',5'-HexCB	157	< 0,01		0,01
2,3',4,4',5,5'-HexCB	167	< 0,01		0,00
Sum-HexCB		0,90		
2,2',3,3',4,4',5-HepCB	170	0,01 b		
2,2',3,4,4',5,5'-HepCB	180	0,04 b	54	
2,2',3,4,4',5',6-HepCB	183	0,01 b		
2,2',3,4',5,5',6-HepCB	187	0,03 b		
2,3,3',4,4',5,5'-HepCB	189	< 0,01		0,00
Sum-HepCB		0,14		
2,2',3,3',4,4',5,5'-OctCB	194	< 0,02		
2,2',3,3',4,4',5,5',6-NonCB	206	< 0,01		
DecaCB	209	0,02		
Sum 7 PCB		3,44		
Sum PCB		16,1		0,05

Sum 7 PCB: PCB(28+52+101+118+138+153+180)
 Sum PCB: Sum of observed PCB (mono- and di-CB are not included)
 <: Lower than detection limit at signal-to-noise 3 to 1
 i: Isotope ratio deviates more than 20 % from theoretical value.
 This may be due to instrumental noise or/and chemical interference
 b: Lower than 10 times method blank.
 g: Recovery is not according to NILUs quality criteria
 TE (WHO): 2378-TCDD toxicity equivalents according to the WHO model
 (M. Van den Berg et al., 1998)

4. versjon 27.08.2003 GSK

Results of PCB Analysis

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Encl. to measuring report: O-2081
 NILU-Sample number: 04/124
 Customer: Amap 03
 Customers sample ID: 24-26.12.03 0820-1106
 : 160-160
 Sample type: Luft
 Sample amount: 1224 m3
 Concentration units: pg/m3
 Data files: DH584_PCB_14-04-2004-gml

Kjeller, 06.05.04

Compound:		Concentration:	Recovery	TE (WHO)
Structure	IUPAC-no.	pg/m3	%	fg/m3
HCB		59,0	57	
2,2',5'-TriCB	18	2,27		
2,4,4'-TriCB	28	1,25	70	
2,4',5'-TriCB	31	1,14		
2',3,4'-TriCB	33	0,78		
3,4,4'-TriCB	37	0,11 b		
Sum-TriCB		8,30		
2,2',4,4'-TetCB	47	0,35 b		
2,2',5,5'-TetCB	52	0,94	67	
2,3,4,4'-TetCB	60			
2,3',4,4'-TetCB	66	0,23 b		
2,4,4',5'-TetCB	74	0,17 b		
Sum-TetCB		3,07		
2,2',4,4',5'-PenCB	99	0,18 b		
2,2',4,5,5'-PenCB	101	0,41 b	82	
2,3,3',4,4'-PenCB	105	0,07 b		0,01
2,3,4,4',5'-PenCB	114	< 0,01		0,01
2,3',4,4',5'-PenCB	118	0,22 b	76	0,02
2'3,3',4,5'-PenCB	122	< 0,01		
2',3,4,4',5'-PenCB	123	< 0,01		0,00
Sum-PenCB		1,51		
2,2',3,3',4,4'-HexCB	128	0,02 b		
2,2',3,4,4',5'-HexCB	138	0,18 b		
2,2',3,4,5,5'-HexCB	141	0,03 b		
2,2',3,4',5',6'-HexCB	149	0,22 b		
2,2',4,4',5,5'-HexCB	153	0,27 b	72	
2,3,3',4,4',5'-HexCB	156	0,03 b		0,01
2,3,3',4,4',5'-HexCB	157	< 0,01		0,01
2,3',4,4',5,5'-HexCB	167	< 0,01		0,00
Sum-HexCB		1,16		
2,2',3,3',4,4',5'-HepCB	170	0,01 b		
2,2',3,4,4',5,5'-HepCB	180	0,06 b	73	
2,2',3,4,4',5',6'-HepCB	183	0,01 b		
2,2',3,4',5,5',6'-HepCB	187	0,04 b		
2,3,3',4,4',5,5'-HepCB	189	< 0,01		0,00
Sum-HepCB		0,19		
2,2',3,3',4,4',5,5'-OctCB	194	< 0,02		
2,2',3,3',4,4',5,5',6'-NonCB	206	< 0,01		
DecaCB	209	< 0,01		
Sum 7 PCB		3,34		
Sum PCB		14,3		0,06

Sum 7 PCB: PCB(28+52+101+118+138+153+180)
 Sum PCB: Sum of observed PCB (mono- and di-CB are not included)
 <: Lower than detection limit at signal-to-noise 3 to 1
 i: Isotope ratio deviates more than 20 % from theoretical value.
 This may be due to instrumental noise or/and chemical interference
 b: Lower than 10 times method blank.
 g: Recovery is not according to NILUs quality criteria
 TE (WHO): 2378-TCDD toxicity equivalents according to the WHO model
 (M. Van den Berg et al., 1998)

4. versjon 27.08.2003 GSK

Results of PCB Analysis



Encl. to measuring report: O-2081
 NILU-Sample number: 04/127
 Customer: Amap 03
 Customers sample ID: 31.12.03-2.1.04 0751-0951
 : 160-153
 Sample type: Luft
 Sample amount: 1180 m3
 Concentration units: pg/m3
 Data files: DH584_PCB_14-04-2004-gml

Kjeller, 06.05.04

Compound:		Concentration:	Recovery	TE (WHO)
Structure	IUPAC-no.	pg/m3	%	fg/m3
HCB		56,9	70	
2,2',5-TriCB	18	1,93		
2,4,4'-TriCB	28	1,13	75	
2,4',5-TriCB	31	1,09		
2',3,4-TriCB	33	0,78		
3,4,4'-TriCB	37	0,09 b		
Sum-TriCB		7,46		
2,2',4,4'-TetCB	47	0,31 b		
2,2',5,5'-TetCB	52	0,79	64	
2,3,4,4'-TetCB	60			
2,3',4,4'-TetCB	66	0,16 b		
2,4,4',5-TetCB	74	0,11 b		
Sum-TetCB		2,48		
2,2',4,4',5-PenCB	99	0,11 b		
2,2',4,5,5'-PenCB	101	0,29 b	73	
2,3,3',4,4'-PenCB	105	0,05 b		0,00
2,3,4,4',5-PenCB	114	< 0,01		0,01
2,3',4,4',5-PenCB	118	0,14 b	68	0,01
2',3,3',4,5-PenCB	122	< 0,01		
2',3,4,4',5-PenCB	123	< 0,01		0,00
Sum-PenCB		1,02		
2,2',3,3',4,4'-HexCB	128	0,02 b		
2,2',3,4,4',5'-HexCB	138	0,14 b		
2,2',3,4,5,5'-HexCB	141	0,03 b		
2,2',3,4',5',6-HexCB	149	0,18 b		
2,2',4,4',5,5'-HexCB	153	0,22 b	62	
2,3,3',4,4',5-HexCB	156	0,02 b		0,01
2,3,3',4,4',5'-HexCB	157	< 0,01		0,01
2,3',4,4',5,5'-HexCB	167	< 0,01		0,00
Sum-HexCB		0,92		
2,2',3,3',4,4',5-HepCB	170	< 0,01		
2,2',3,4,4',5,5'-HepCB	180	0,06 b	47	
2,2',3,4,4',5',6-HepCB	183	0,02 b		
2,2',3,4',5,5',6-HepCB	187	0,04 b		
2,3,3',4,4',5,5'-HepCB	189	< 0,01		0,00
Sum-HepCB		0,19		
2,2',3,3',4,4',5,5'-OctCB	194	< 0,01		
2,2',3,3',4,4',5,5',6-NonCB	206	< 0,01		
DecaCB	209	< 0,01		
Sum 7 PCB		2,78		
Sum PCB		12,1		0,04

Sum 7 PCB: PCB(28+52+101+118+138+153+180)
 Sum PCB: Sum of observed PCB (mono- and di-CB are not included)
 <: Lower than detection limit at signal-to-noise 3 to 1
 i: Isotope ratio deviates more than 20 % from theoretical value.
 This may be due to instrumental noise or/and chemical interference
 b: Lower than 10 times method blank.
 g: Recovery is not according to NILUs quality criteria
 TE (WHO): 2378-TCDD toxicity equivalents according to the WHO model
 (M. Van den Berg et al., 1998)

4. versjon 27.08.2003 GSK

Results of HCH and DDT Analysis

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Kjeller, 12.09.03

Encl. to measuring report : O-2081

NILU-Sample number : 03/44

Customer : Amap 03

Customers sample ID : 30.12-1.1.02 0913-1020

: 160-155

Sample type : Luft

Sample amount : 1166 m3

Concentration units : pg/m3

Data files : DH346_347_DDT_05-02-2003

Compound Structure	Concentration pg/m3	Recovery %
α -HCH	19,3	52
β -HCH	0,32	
γ -HCH	4,04	54
o,p'-DDE	0,19	
p,p'-DDE	0,93 b	75
o,p'-DDD	0,02 b	
p,p'-DDD	0,01 b	
o,p'-DDT	0,31	
p,p'-DDT	0,15	83
Sum DDT	1,61	

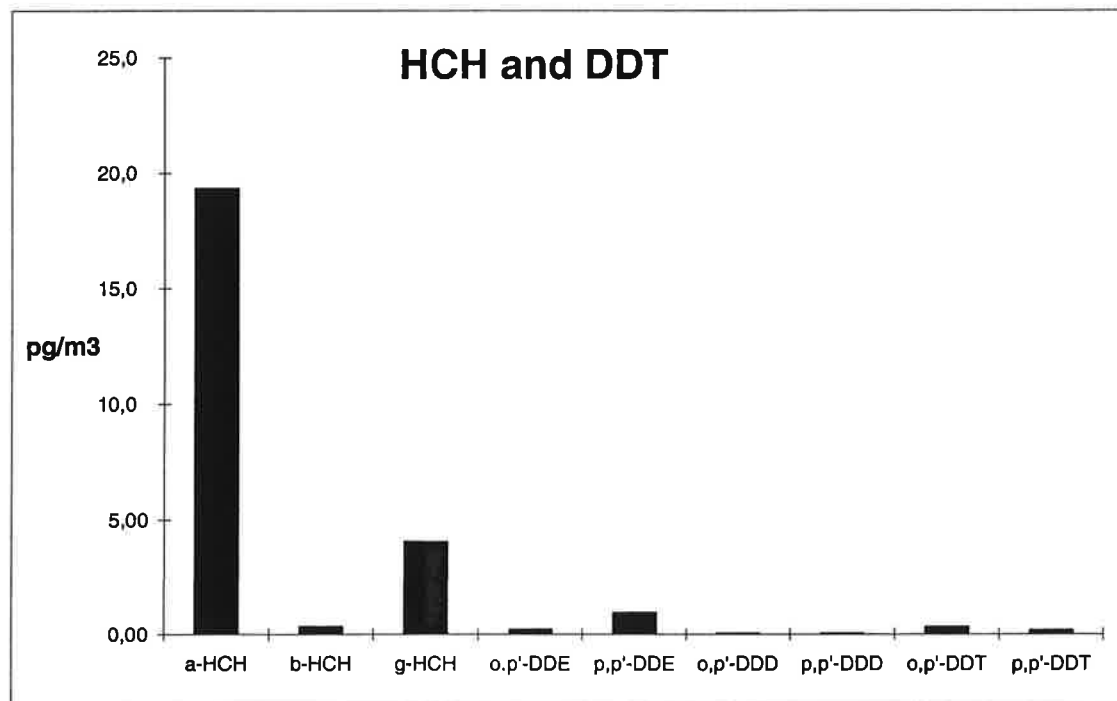
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank

g : Recovery is not according to NILUs quality criteria



Results of HCH and DDT Analysis

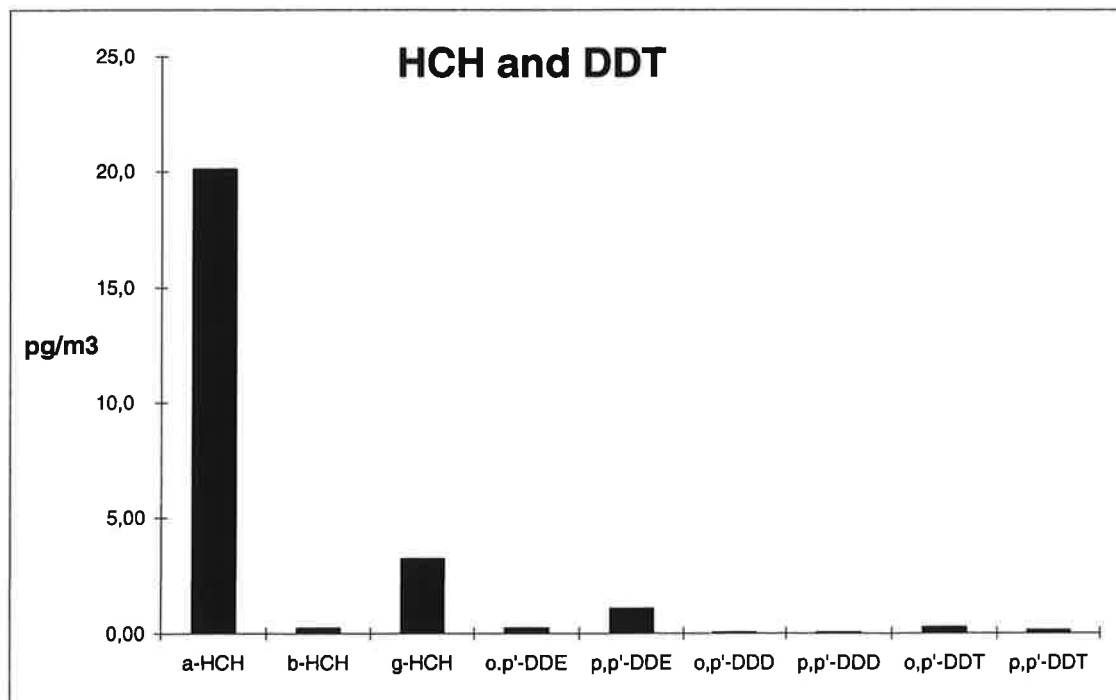


Kjeller, 03.11.03

Encl. to measuring report : O-2081
 NILU-Sample number : 03/296
 Customer : Amap 03
 Customers sample ID : 1-3.1.03 1025-1006
 : 160-160
 Sample type : Luft
 Sample amount : 1150 m3
 Concentration units : pg/m3
 Data files : DH477B_DDT_28-10-2003

Compound Structure	Concentration pg/m3	Recovery %
α -HCH	20,1	51
β -HCH	0,21	
γ -HCH	3,19	51
o,p'-DDE	0,21	
p,p'-DDE	1,04	55
o,p'-DDD	0,02	
p,p'-DDD	0,02	
o,p'-DDT	0,24	
p,p'-DDT	0,11	71
Sum DDT	1,64	

< : Lower than detection limit at signal-to-noise 3 to 1
 i : Isotope ratio deviates more than 20 % from theoretical value
 This may be due to instrumental noise or/and chemical interference
 b : Lower than 10 times method blank
 g : Recovery is not according to NILUs quality criteria



Results of HCH and DDT Analysis

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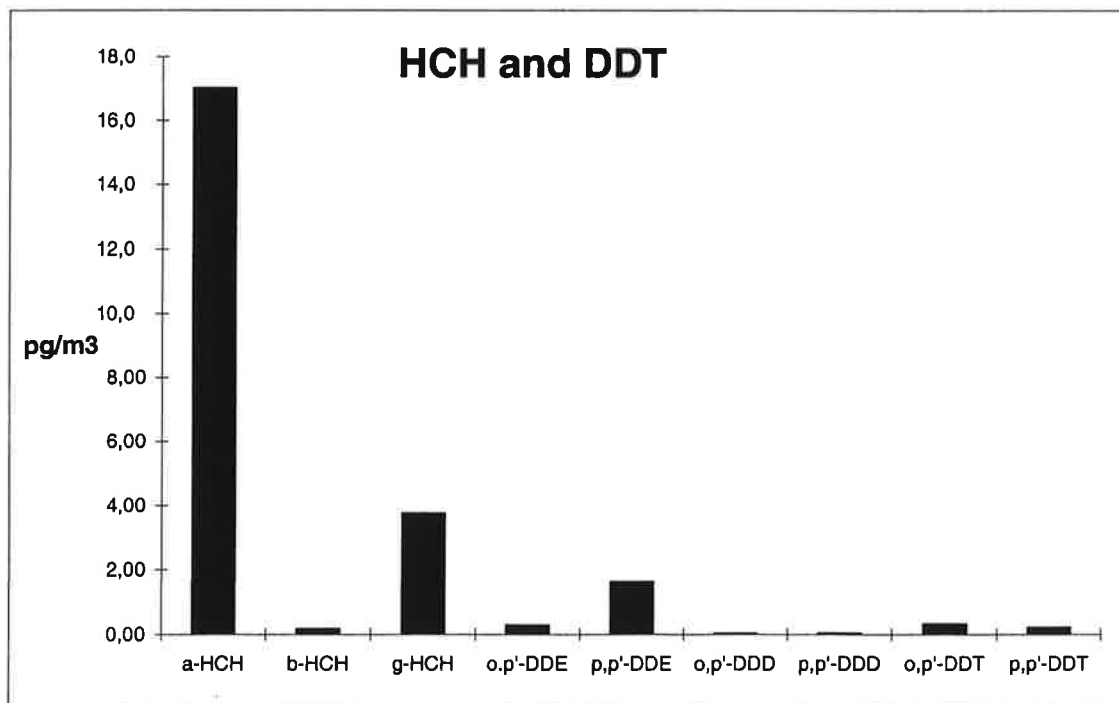
Kjeller, 03.11.03

Encl. to measuring report : O-2081
 NILU-Sample number : 03/298
 Customer : Amap 03
 Customers sample ID : 6-8.1.03 0847-0850

Sample type : Luft
 Sample amount : 1154 m3
 Concentration units : pg/m3
 Data files : DH477B_DDT_28-10-2003

Compound Structure	Concentration pg/m3	Recovery %
α -HCH	17,0	42
β -HCH	0,16	
γ -HCH	3,75	43
o,p'-DDE	0,28	
p,p'-DDE	1,62	50
o,p'-DDD	0,02	
p,p'-DDD	0,03	
o,p'-DDT	0,31	
p,p'-DDT	0,20	69
Sum DDT	2,46	

< : Lower than detection limit at signal-to-noise 3 to 1
 i : Isotope ratio deviates more than 20 % from theoretical value
 This may be due to instrumental noise or/and chemical interference
 b : Lower than 10 times method blank
 g : Recovery is not according to NILUs quality criteria



Results of HCH and DDT Analysis



Kjeller, 03.11.03

Encl. to measuring report : O-2081

NILU-Sample number : 03/301

Customer : Amap 03

Customers sample ID : 13-15.1.03 0920-0830

: 160-150

Sample type : Luft

Sample amount : 1102 m3

Concentration units : pg/m3

Data files : DH477B_DDT_28-10-2003

Compound Structure	Concentration pg/m3	Recovery %
α -HCH	19,3	43
β -HCH	0,15	
γ -HCH	3,42	50
o,p'-DDE	0,16	
p,p'-DDE	0,93	64
o,p'-DDD	0,02	
p,p'-DDD	0,04	
o,p'-DDT	0,24	
p,p'-DDT	0,18	85
Sum DDT	1,58	

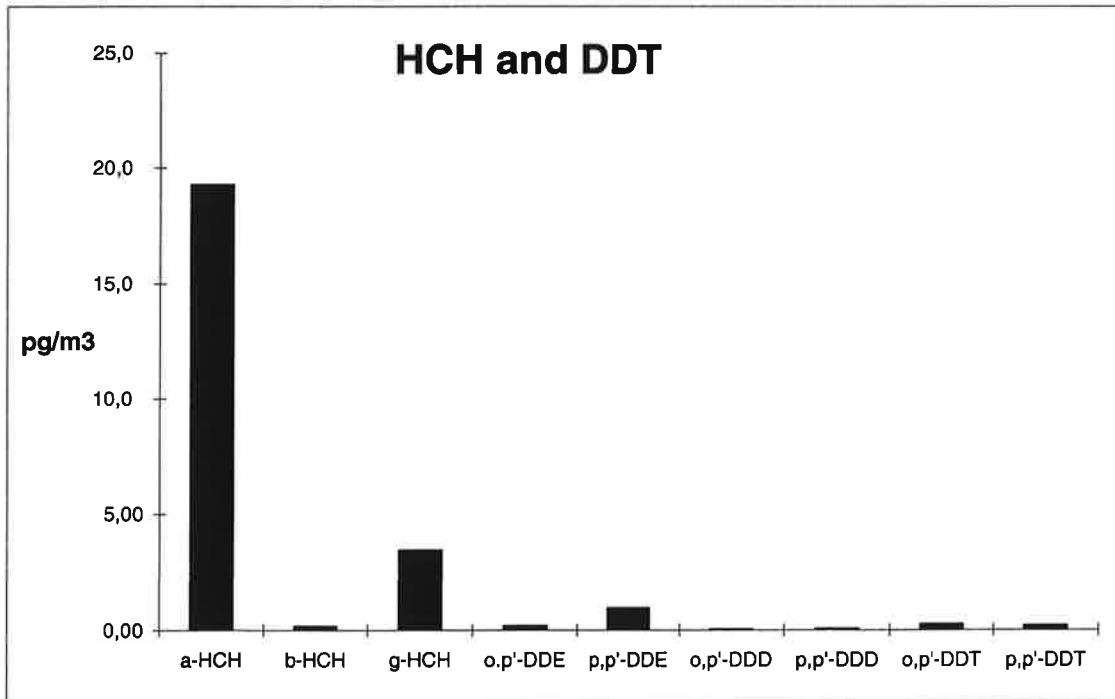
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank

g : Recovery is not according to NILUs quality criteria



Results of HCH and DDT Analysis

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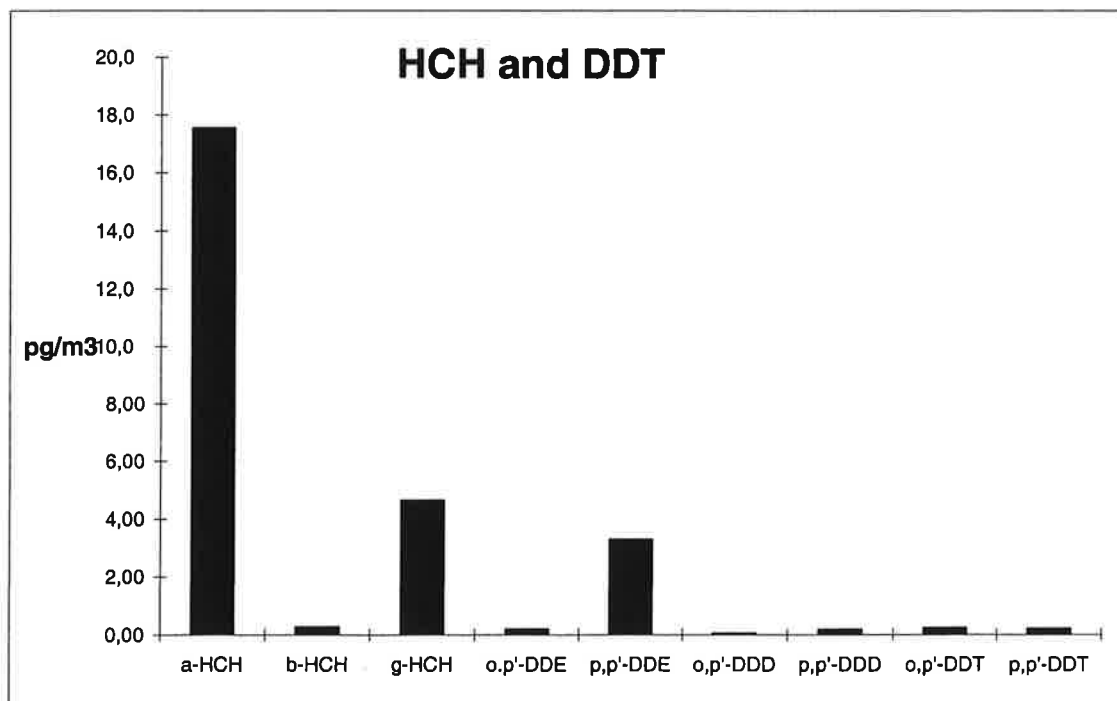


Kjeller, 03.11.03

Encl. to measuring report : O-2081
 NILU-Sample number : 03/304
 Customer : Amap 03
 Customers sample ID : 20-22.1.03 0803-0908
 : 160-150
 Sample type : Luft
 Sample amount : 1146 m3
 Concentration units : pg/m3
 Data files : DH477B_DDT_28-10-2003

Compound Structure	Concentration pg/m3	Recovery %
α -HCH	17,5	29
β -HCH	0,26	
γ -HCH	4,63	33
o,p'-DDE	0,17	
p,p'-DDE	3,28	53
o,p'-DDD	0,04	
p,p'-DDD	0,17	
o,p'-DDT	0,22	
p,p'-DDT	0,20	74
Sum DDT	4,09	

< : Lower than detection limit at signal-to-noise 3 to 1
 i : Isotope ratio deviates more than 20 % from theoretical value
 This may be due to instrumental noise or/and chemical interference
 b : Lower than 10 times method blank
 g : Recovery is not according to NILUs quality criteria



Results of HCH and DDT Analysis

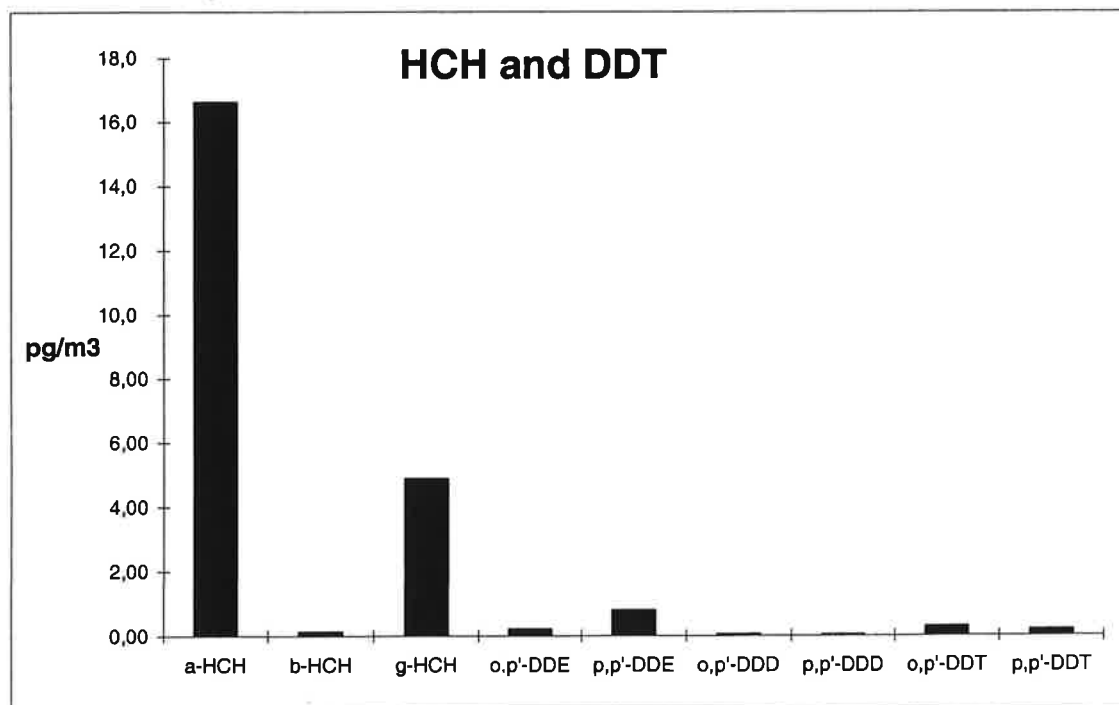


Kjeller, 03.11.03

Encl. to measuring report : O-2081
 NILU-Sample number : 03/308
 Customer : Amap 03
 Customers sample ID : 29-31.1.03 0828-0814
 : 160-160
 Sample type : Luft
 Sample amount : 1152 m3
 Concentration units : pg/m3
 Data files : DH477B_DDT_28-10-2003

Compound Structure	Concentration pg/m3	Recovery %
α -HCH	16,6	37
β -HCH	0,12	
γ -HCH	4,86	37
o,p'-DDE	0,20	
p,p'-DDE	0,78	51
o,p'-DDD	0,04	
p,p'-DDD	0,02	
o,p'-DDT	0,27	
p,p'-DDT	0,17	69
Sum DDT	1,48	

< : Lower than detection limit at signal-to-noise 3 to 1
 i : Isotope ratio deviates more than 20 % from theoretical value
 This may be due to instrumental noise or/and chemical interference
 b : Lower than 10 times method blank
 g : Recovery is not according to NILUs quality criteria



Results of HCH and DDT Analysis

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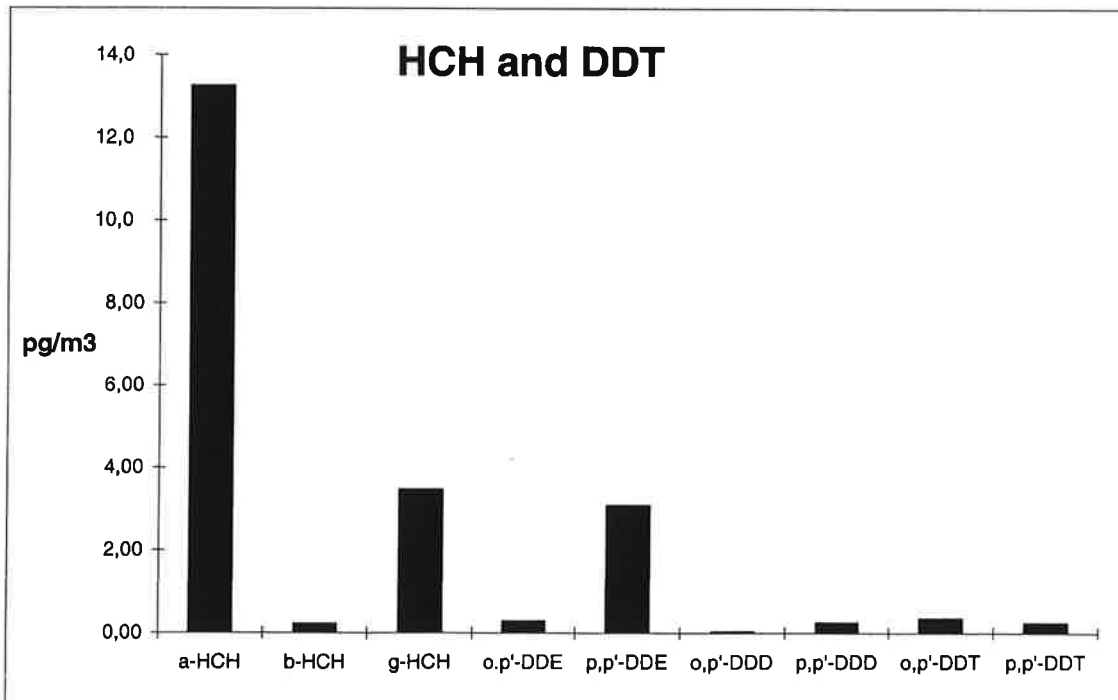


Kjeller, 03.11.03

Encl. to measuring report : O-2081
 NILU-Sample number : 03/310
 Customer : Amap 03
 Customers sample ID : 3-5.2.03 0837-0850
 : 160-160
 Sample type : Luft
 Sample amount : 1162 m3
 Concentration units : pg/m3
 Data files : DH477B_DDT_28-10-2003

Compound Structure	Concentration pg/m3	Recovery %
α -HCH	13,2	42
β -HCH	0,21	
γ -HCH	3,46	47
o,p'-DDE	0,27	
p,p'-DDE	3,08	56
o,p'-DDD	0,02	
p,p'-DDD	0,24	
o,p'-DDT	0,35	
p,p'-DDT	0,23	77
Sum DDT	4,18	

< : Lower than detection limit at signal-to-noise 3 to 1
 i : Isotope ratio deviates more than 20 % from theoretical value
 This may be due to instrumental noise or/and chemical interference
 b : Lower than 10 times method blank
 g : Recovery is not according to NILUs quality criteria



Results of HCH and DDT Analysis



Kjeller, 03.11.03

Encl. to measuring report : O-2081

NILU-Sample number : 03/313

Customer : Amap 03

Customers sample ID : 10-12.2.03 0954-0833

: 160-160

Sample type : Luft

Sample amount : 1125 m3

Concentration units : pg/m3

Data files : DH477B_DDT_28-10-2003

Compound Structure	Concentration pg/m3	Recovery %
α -HCH	13,8	51
β -HCH	0,59	
γ -HCH	4,99	51
o,p'-DDE	0,31	
p,p'-DDE	1,94	59
o,p'-DDD	0,05	
p,p'-DDD	0,05	
o,p'-DDT	0,44	
p,p'-DDT	0,29	78
Sum DDT	3,08	

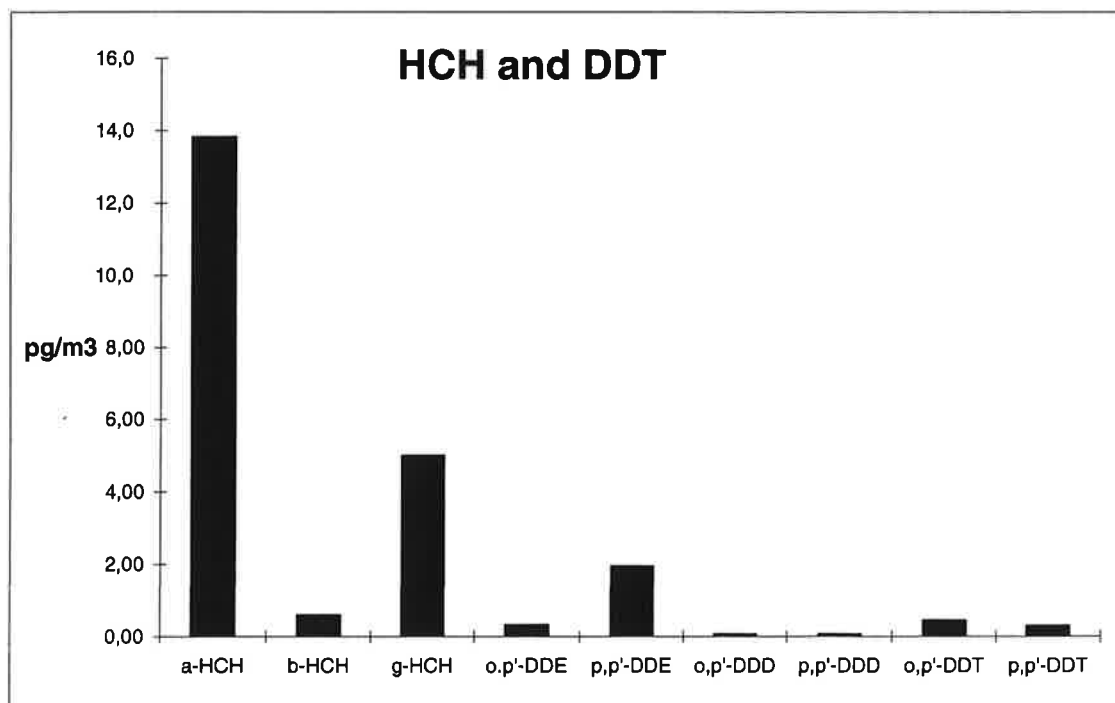
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank

g : Recovery is not according to NILUs quality criteria

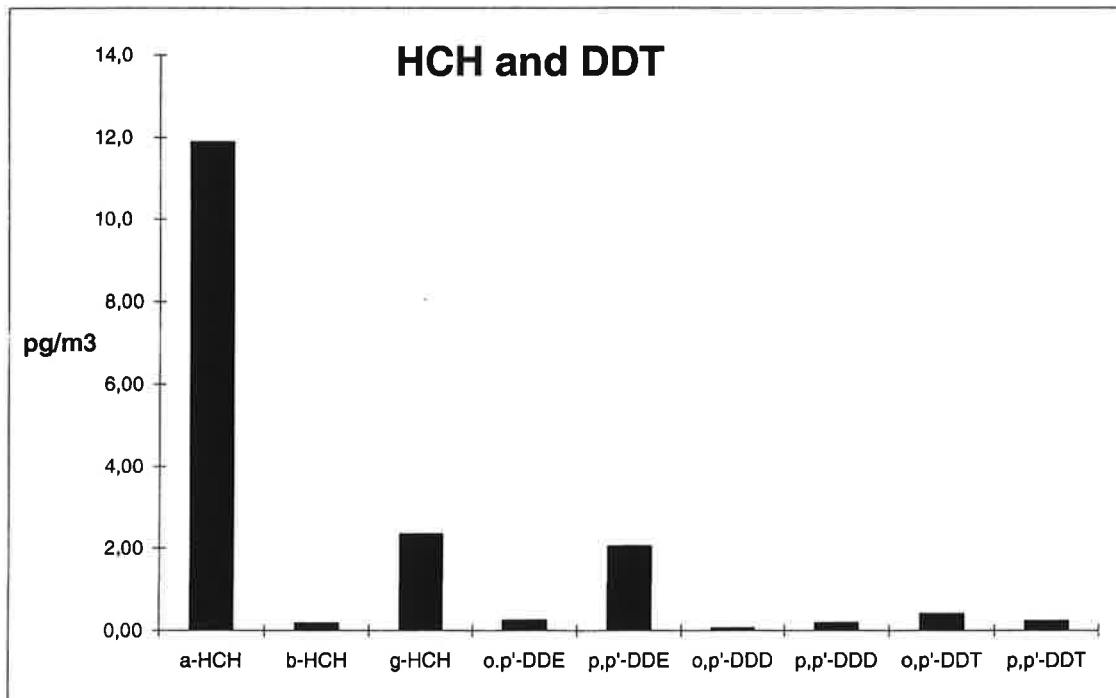


Results of HCH and DDT Analysis

Encl. to measuring report : O-2081
 NILU-Sample number : 03/315
 Customer : Amap 03
 Customers sample ID : 14-16.2.03 0948-1028
 : 160-180
 Sample type : Luft
 Sample amount : 1220 m3
 Concentration units : pg/m3
 Data files : VA615_DDT_19-05-2003

Compound Structure	Concentration pg/m3	Recovery %
α -HCH	11,9	58
β -HCH	0,16	
γ -HCH	2,33	48
o,p'-DDE	0,23	
p,p'-DDE	2,04	60
o,p'-DDD	0,05	
p,p'-DDD	0,17 i	
o,p'-DDT	0,39	
p,p'-DDT	0,22 i	66
Sum DDT	3,10	

< : Lower than detection limit at signal-to-noise 3 to 1
 i : Isotope ratio deviates more than 20 % from theoretical value
 This may be due to instrumental noise or/and chemical interference
 b : Lower than 10 times method blank
 g : Recovery is not according to NILUs quality criteria



Results of HCH and DDT Analysis

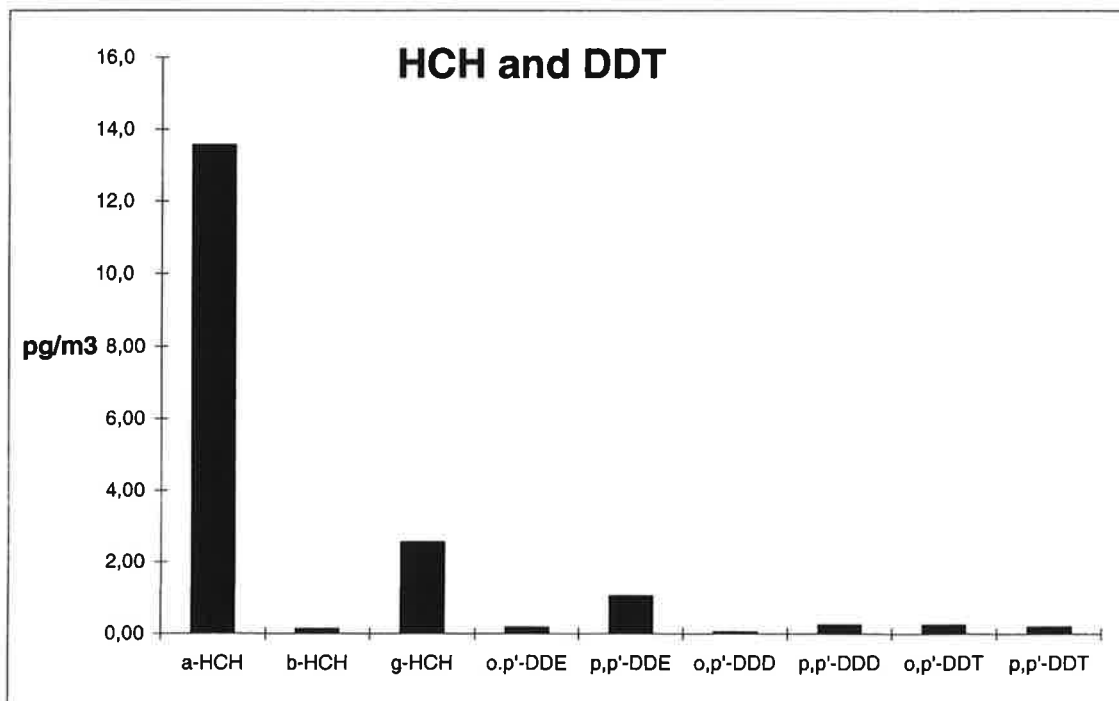


Kjeller, 18.06.03

Encl. to measuring report : O-2081
 NILU-Sample number : 03/320
 Customer : Amap 03
 Customers sample ID : 26-28.2.03 0823-0853
 : 160-173
 Sample type : Luft
 Sample amount : 1249 m3
 Concentration units : pg/m3
 Data files : VA615_DDT_19-05-2003

Compound Structure	Concentration pg/m3	Recovery %
α -HCH	13,6	46
β -HCH	0,12	
γ -HCH	2,54	42
o,p'-DDE	0,16	
p,p'-DDE	1,04	55
o,p'-DDD	0,04 i	
p,p'-DDD	0,23	
o,p'-DDT	0,23	
p,p'-DDT	0,18	65
Sum DDT	1,88	

< : Lower than detection limit at signal-to-noise 3 to 1
 i : Isotope ratio deviates more than 20 % from theoretical value
 This may be due to instrumental noise or/and chemical interference
 b : Lower than 10 times method blank
 g : Recovery is not according to NILUs quality criteria



Results of HCH and DDT Analysis

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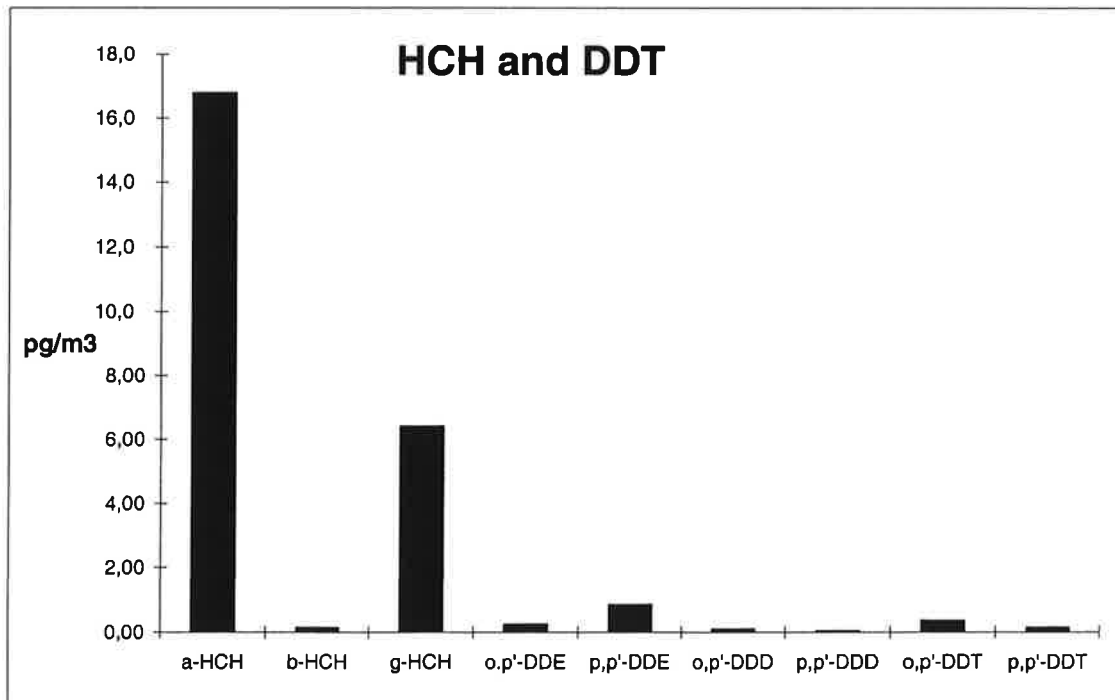


Kjeller, 01.08.03

Encl. to measuring report : O-2081
 NILU-Sample number : 03/463
 Customer : Amap 03
 Customers sample ID : 3-5.3.03 0805-0708
 : 160-162
 Sample type : Luft
 Sample amount : 1140 m3
 Concentration units : pg/m3
 Data files : DH442_PCB_08-07-2003

Compound Structure	Concentration pg/m3	Recovery %
α -HCH	16,8	55
β -HCH	0,12	
γ -HCH	6,40	49
o,p'-DDE	0,23	
p,p'-DDE	0,83	56
o,p'-DDD	0,08 i	
p,p'-DDD	0,02	
o,p'-DDT	0,34	
p,p'-DDT	0,13	86
Sum DDT	1,63	

< : Lower than detection limit at signal-to-noise 3 to 1
 i : Isotope ratio deviates more than 20 % from theoretical value
 This may be due to instrumental noise or/and chemical interference
 b : Lower than 10 times method blank
 g : Recovery is not according to NILUs quality criteria



Results of HCH and DDT Analysis

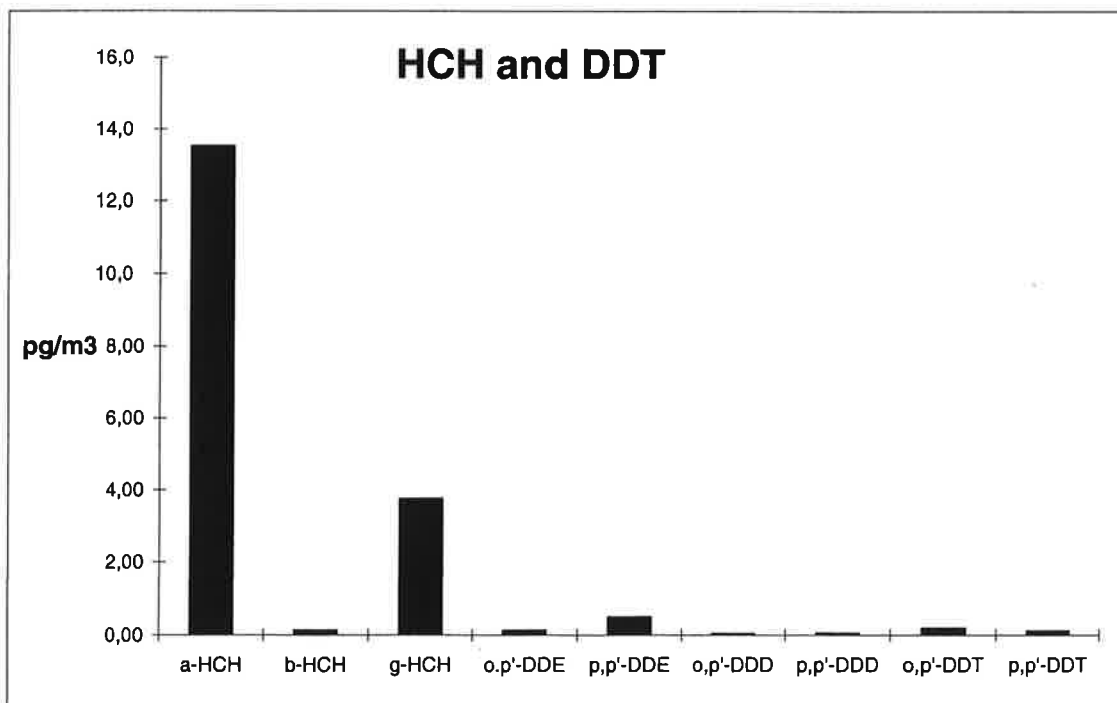


Kjeller, 01.08.03

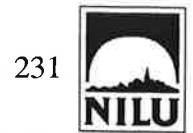
Encl. to measuring report : O-2081
 NILU-Sample number : 03/466
 Customer : Amap 03
 Customers sample ID : 10-12.3.03 0840-0829
 : 160-163
 Sample type : Luft
 Sample amount : 1159 m3
 Concentration units : pg/m3
 Data files : DH442_PCB_08-07-2003

Compound Structure	Concentration pg/m3	Recovery %
α -HCH	13,5	57
β -HCH	0,12	
γ -HCH	3,75	55
o,p'-DDE	0,12	
p,p'-DDE	0,48 b	55
o,p'-DDD	0,03	
p,p'-DDD	0,04	
o,p'-DDT	0,18	
p,p'-DDT	0,11	86
Sum DDT	0,96	

< : Lower than detection limit at signal-to-noise 3 to 1
 i : Isotope ratio deviates more than 20 % from theoretical value
 This may be due to instrumental noise or/and chemical interference
 b : Lower than 10 times method blank
 g : Recovery is not according to NILUs quality criteria



Results of HCH and DDT Analysis

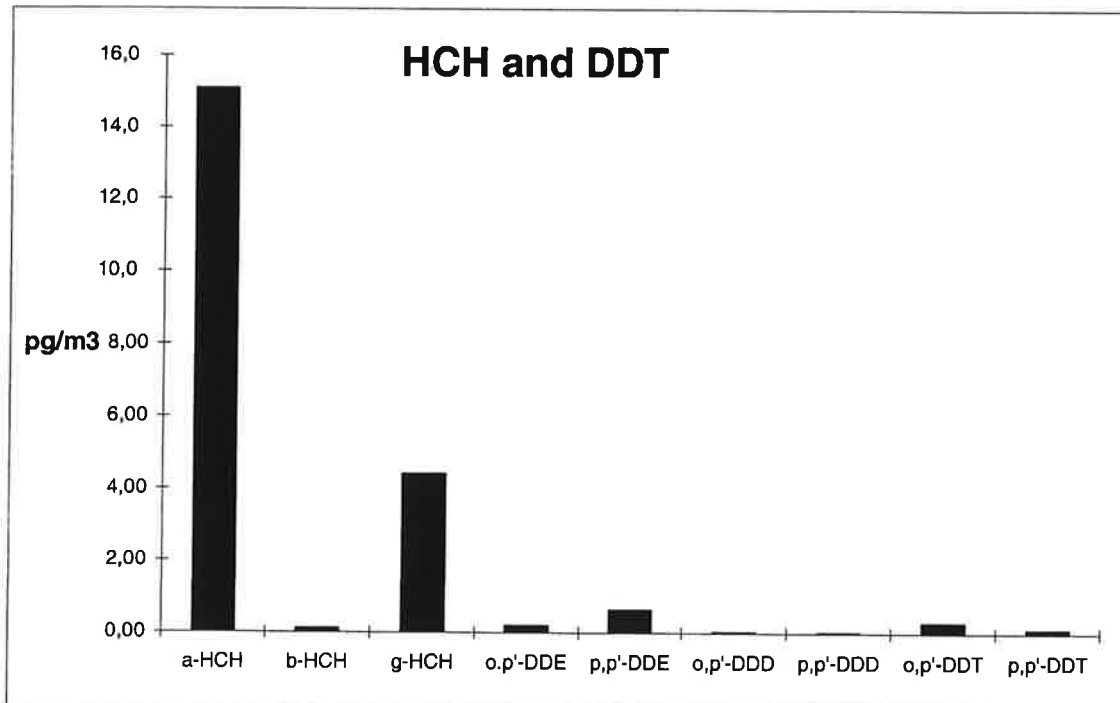


231
Kjeller, 18.06.03

Encl. to measuring report : O-2081
 NILU-Sample number : 03/469
 Customer : Amap 03
 Customers sample ID : 17-19.3.03 1005-0911
 : 160-159
 Sample type : Luft
 Sample amount : 1133 m3
 Concentration units : pg/m3
 Data files : VA623_DDT_05-06-2003

Compound Structure	Concentration pg/m3	Recovery %
α -HCH	15,1	49
β -HCH	0,10 i	
γ -HCH	4,40	47
o,p'-DDE	0,18	
p,p'-DDE	0,62	60
o,p'-DDD	0,02	
p,p'-DDD	< 0,01	
o,p'-DDT	0,28	
p,p'-DDT	0,10	99
Sum DDT	1,21	

< : Lower than detection limit at signal-to-noise 3 to 1
 i : Isotope ratio deviates more than 20 % from theoretical value
 This may be due to instrumental noise or/and chemical interference
 b : Lower than 10 times method blank
 g : Recovery is not according to NILUs quality criteria



Results of HCH and DDT Analysis

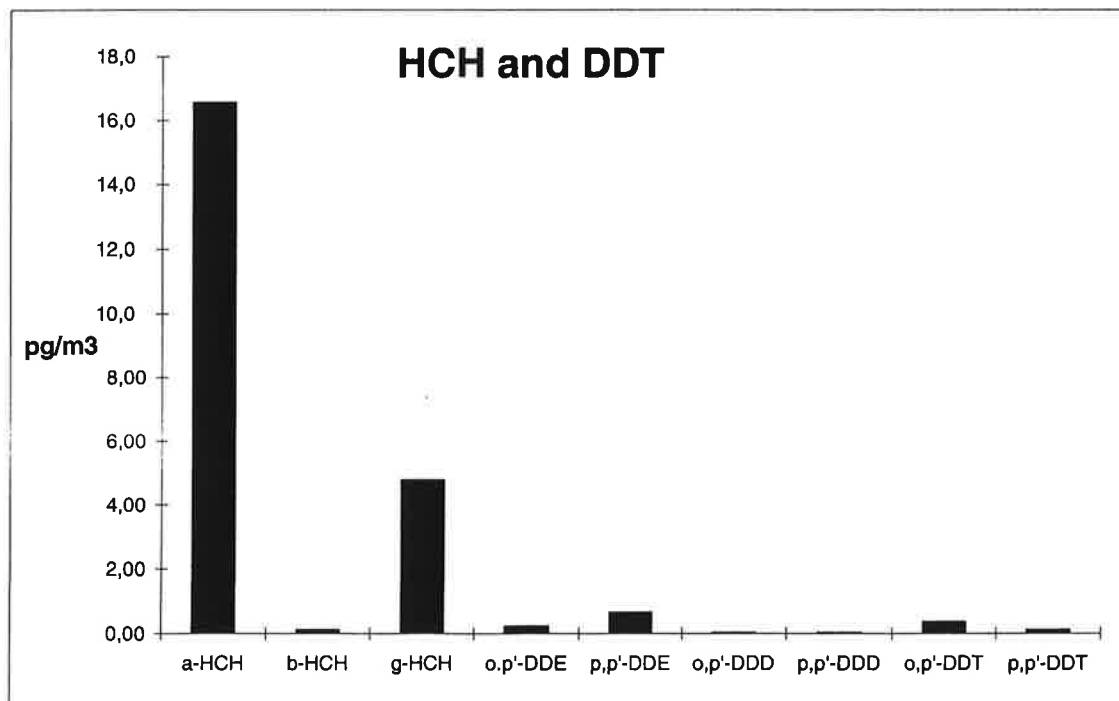


Kjeller, 18.06.03

Encl. to measuring report : O-2081
 NILU-Sample number : 03/473
 Customer : Amap 03
 Customers sample ID : 26-28.3.03 1258-0914
 : 160-162
 Sample type : Luft
 Sample amount : 1058 m3
 Concentration units : pg/m3
 Data files : VA623_DDT_05-06-2003

Compound Structure	Concentration pg/m3	Recovery %
α -HCH	16,6	62
β -HCH	0,10 b	
γ -HCH	4,77	61
o,p'-DDE	0,21 i	
p,p'-DDE	0,64	56
o,p'-DDD	< 0,01	
p,p'-DDD	< 0,01	
o,p'-DDT	0,35	
p,p'-DDT	0,10 i	64
Sum DDT	1,32	

< : Lower than detection limit at signal-to-noise 3 to 1
 i : Isotope ratio deviates more than 20 % from theoretical value
 This may be due to instrumental noise or/and chemical interference
 b : Lower than 10 times method blank
 g : Recovery is not according to NILUs quality criteria



Results of HCH and DDT Analysis

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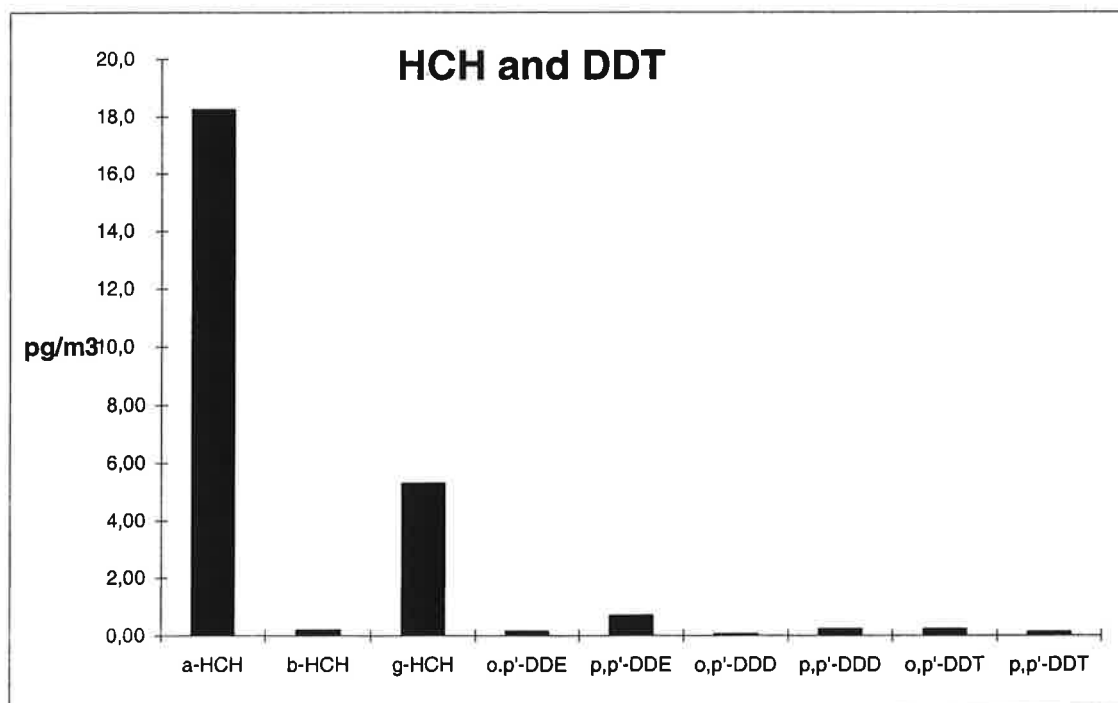


Kjeller, 18.06.03

Encl. to measuring report : O-2081
 NILU-Sample number : 03/476
 Customer : Amap 03
 Customers sample ID : 2-4.4.03 0853-0737
 : 160-162
 Sample type : Luft
 Sample amount : 1096 m3
 Concentration units : pg/m3
 Data files : VA623_DDT_05-06-2003

Compound Structure	Concentration pg/m3	Recovery %
α -HCH	18,2	55
β -HCH	0,18	
γ -HCH	5,29	52
o,p'-DDE	0,13	
p,p'-DDE	0,68	53
o,p'-DDD	0,05	
p,p'-DDD	0,21 i	
o,p'-DDT	0,21	
p,p'-DDT	0,11	62
Sum DDT	1,39	

< : Lower than detection limit at signal-to-noise 3 to 1
 i : Isotope ratio deviates more than 20 % from theoretical value
 This may be due to instrumental noise or/and chemical interference
 b : Lower than 10 times method blank
 g : Recovery is not according to NILUs quality criteria



Results of HCH and DDT Analysis



Kjeller, 18.06.03

Encl. to measuring report : O-2081
 NILU-Sample number : 03/478
 Customer : Amap 03
 Customers sample ID : 7-9.4.03 0734-0813
 : 160-160
 Sample type : Luft
 Sample amount : 1174 m3
 Concentration units : pg/m3
 Data files : VA623_DDT_05-06-2003

Compound Structure	Concentration pg/m3	Recovery %
α -HCH	6,12	50
β -HCH	0,08 b	
γ -HCH	2,09	47
o,p'-DDE	0,14	
p,p'-DDE	0,46 b	48
o,p'-DDD	< 0,01	
p,p'-DDD	0,04 i	
o,p'-DDT	0,30	
p,p'-DDT	0,07 i	57
Sum DDT	1,02	

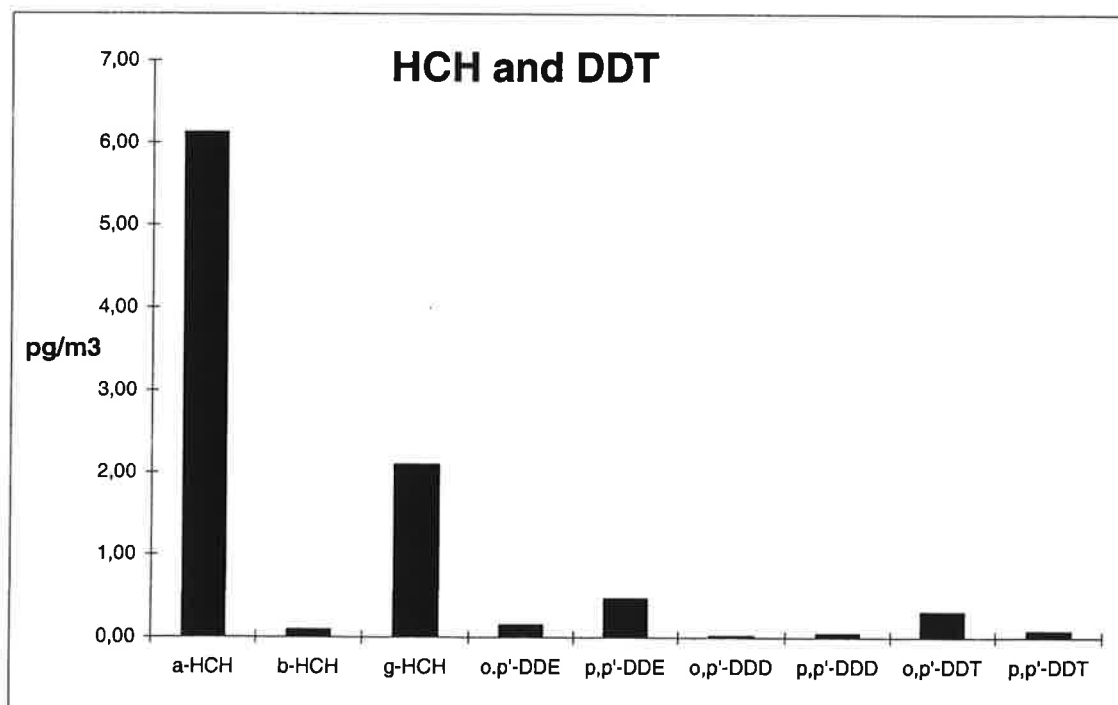
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank

g : Recovery is not according to NILUs quality criteria



Results of HCH and DDT Analysis

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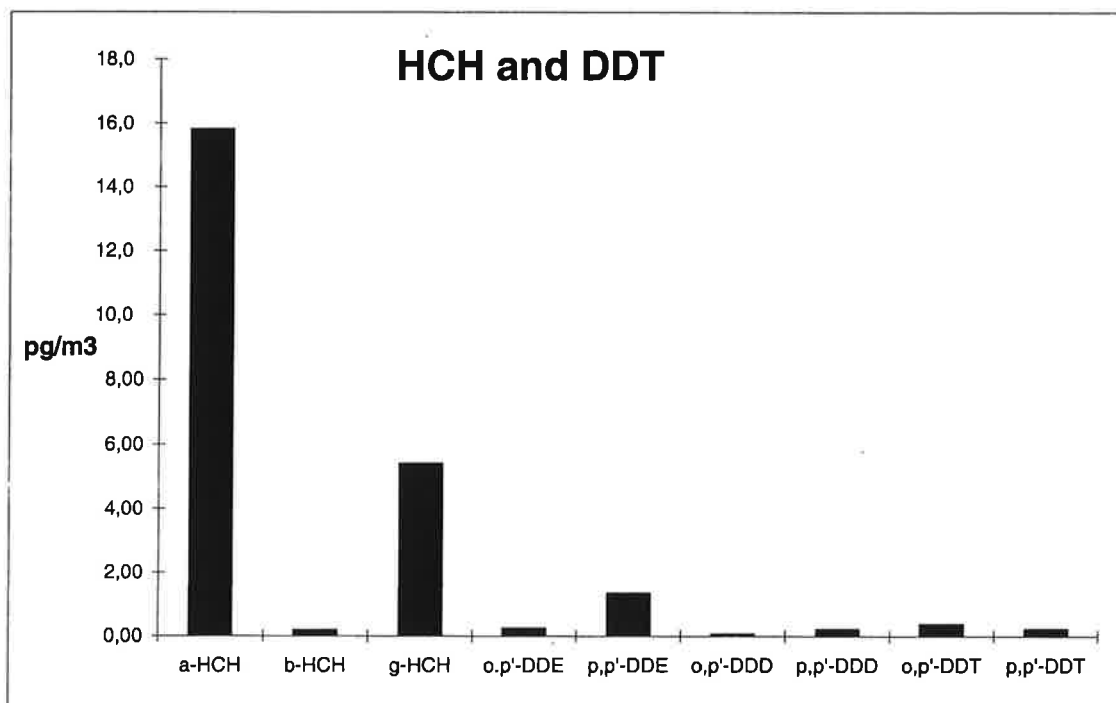


Kjeller, 18.06.03

Encl. to measuring report : O-2081
 NILU-Sample number : 03/481
 Customer : Amap 03
 Customers sample ID : 14-16.4.03 0928-0733
 : 160-146
 Sample type : Luft
 Sample amount : 1063 m3
 Concentration units : pg/m3
 Data files : VA623_DDT_05-06-2003

Compound Structure	Concentration pg/m3	Recovery %
α -HCH	15,8	65
β -HCH	0,17 i	
γ -HCH	5,39	63
o,p'-DDE	0,22	
p,p'-DDE	1,33 i	59
o,p'-DDD	0,05	
p,p'-DDD	0,20 i	
o,p'-DDT	0,36	
p,p'-DDT	0,21	78
Sum DDT	2,37	

< : Lower than detection limit at signal-to-noise 3 to 1
 i : Isotope ratio deviates more than 20 % from theoretical value
 This may be due to instrumental noise or/and chemical interference
 b : Lower than 10 times method blank
 g : Recovery is not according to NILUs quality criteria



Results of HCH and DDT Analysis

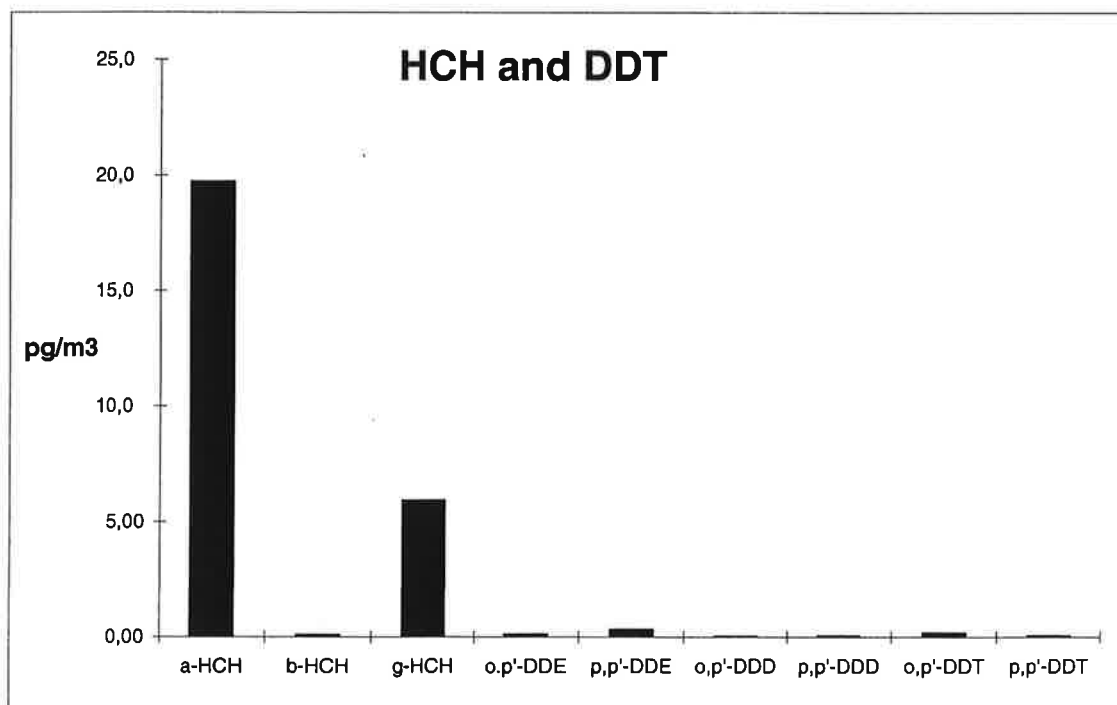


Kjeller, 01.09.03

Encl. to measuring report : O-2081
 NILU-Sample number : 03/834
 Customer : Amap 03
 Customers sample ID : 18-22.4.03 1027-0748
 : 160-166
 Sample type : Luft
 Sample amount : 2298 m3
 Concentration units : pg/m3
 Data files : DH455_DDT_29-08-2003

Compound Structure	Concentration pg/m3	Recovery %
α -HCH	19,7	73
β -HCH	0,08	
γ -HCH	5,91	71
o,p'-DDE	0,10	
p,p'-DDE	0,31	62
o,p'-DDD	0,01 i	
p,p'-DDD	0,04 i	
o,p'-DDT	0,17	
p,p'-DDT	0,05 i	78
Sum DDT	0,67	

< : Lower than detection limit at signal-to-noise 3 to 1
 i : Isotope ratio deviates more than 20 % from theoretical value
 This may be due to instrumental noise or/and chemical interference
 b : Lower than 10 times method blank
 g : Recovery is not according to NILUs quality criteria



Results of HCH and DDT Analysis

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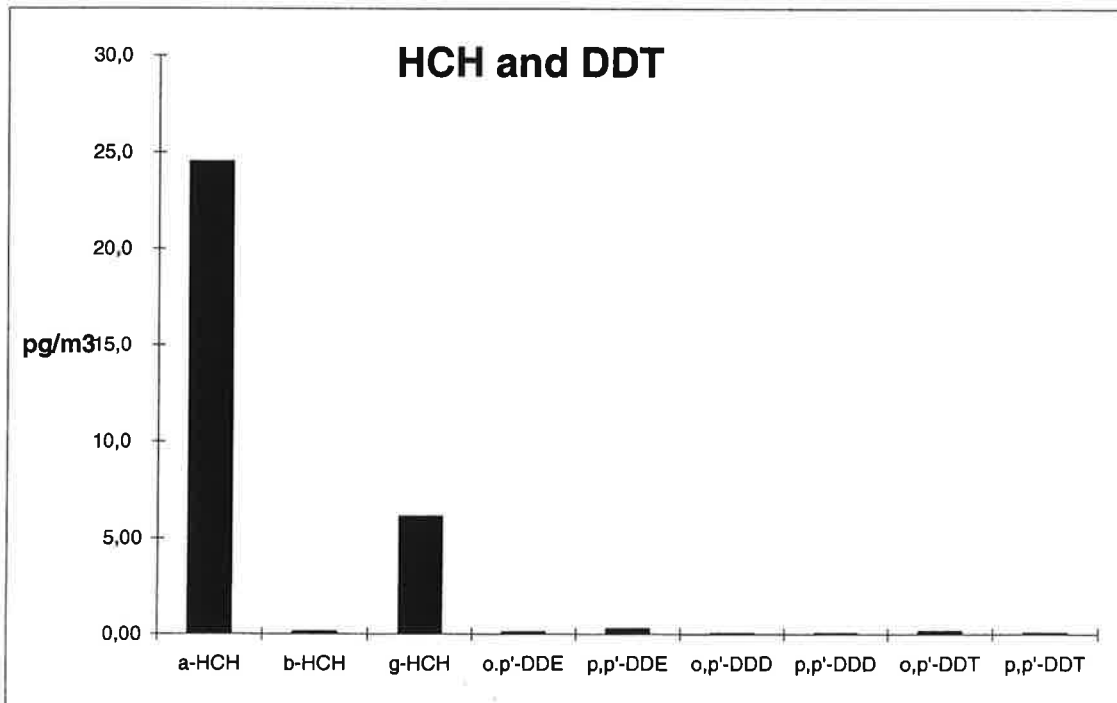


Kjeller, 01.09.03

Encl. to measuring report : O-2081
 NILU-Sample number : 03/836
 Customer : Amap 03
 Customers sample ID : 25-27.4.03 0720-0931
 : 160-159
 Sample type : Luft
 Sample amount : 1207 m3
 Concentration units : pg/m3
 Data files : DH455_DDT_29-08-2003

Compound Structure	Concentration pg/m3	Recovery %
α -HCH	24,5	69
β -HCH	0,10	
γ -HCH	6,09	66
o,p'-DDE	0,09	
p,p'-DDE	0,25 b	57
o,p'-DDD	< 0,01	
p,p'-DDD	0,02 i	
o,p'-DDT	0,13	
p,p'-DDT	0,03	74
Sum DDT	0,52	

< : Lower than detection limit at signal-to-noise 3 to 1
 i : Isotope ratio deviates more than 20 % from theoretical value
 This may be due to instrumental noise or/and chemical interference
 b : Lower than 10 times method blank
 g : Recovery is not according to NILUs quality criteria



Results of HCH and DDT Analysis

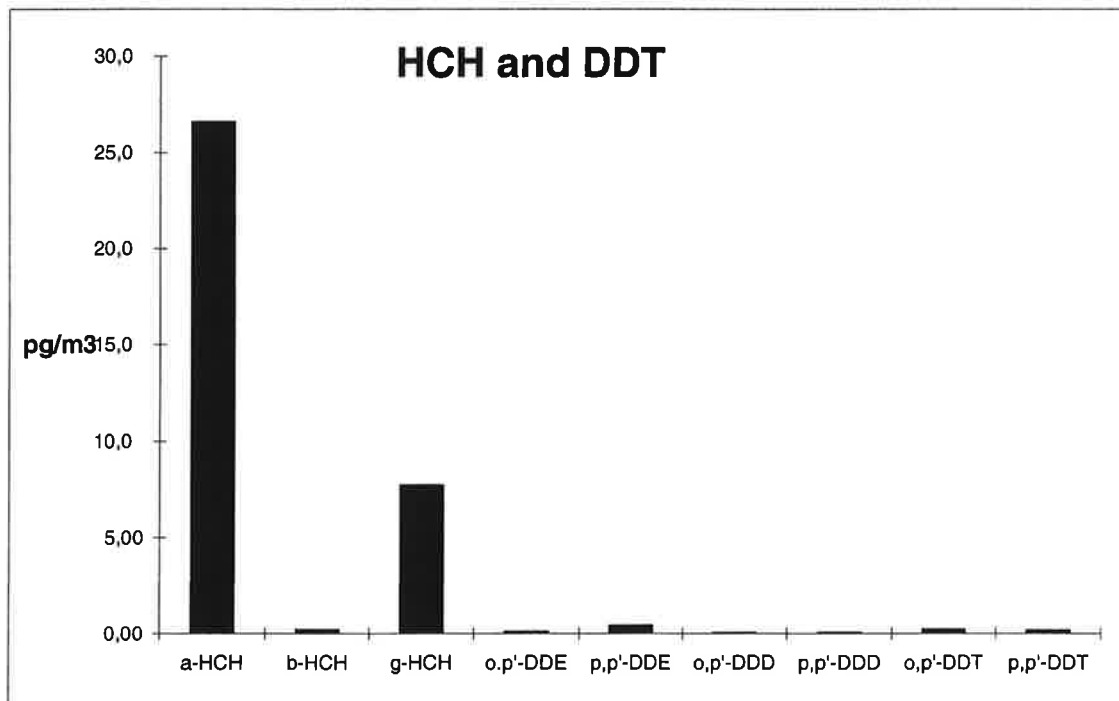


Kjeller, 01.09.03

Encl. to measuring report : O-2081
 NILU-Sample number : 03/838
 Customer : Amap 03
 Customers sample ID : 30.4-2.5.03 0748-0704
 : 160-162
 Sample type : Luft
 Sample amount : 1145 m3
 Concentration units : pg/m3
 Data files : DH455_DDT_29-08-2003

Compound Structure	Concentration pg/m3	Recovery %
α -HCH	26,6	62
β -HCH	0,18	
γ -HCH	7,72	59
o,p'-DDE	0,08	
p,p'-DDE	0,41 b	73
o,p'-DDD	0,02 i	
p,p'-DDD	0,03	
o,p'-DDT	0,19	
p,p'-DDT	0,16	107
Sum DDT	0,88	

< : Lower than detection limit at signal-to-noise 3 to 1
 i : Isotope ratio deviates more than 20 % from theoretical value
 This may be due to instrumental noise or/and chemical interference
 b : Lower than 10 times method blank
 g : Recovery is not according to NILUs quality criteria



Results of HCH and DDT Analysis

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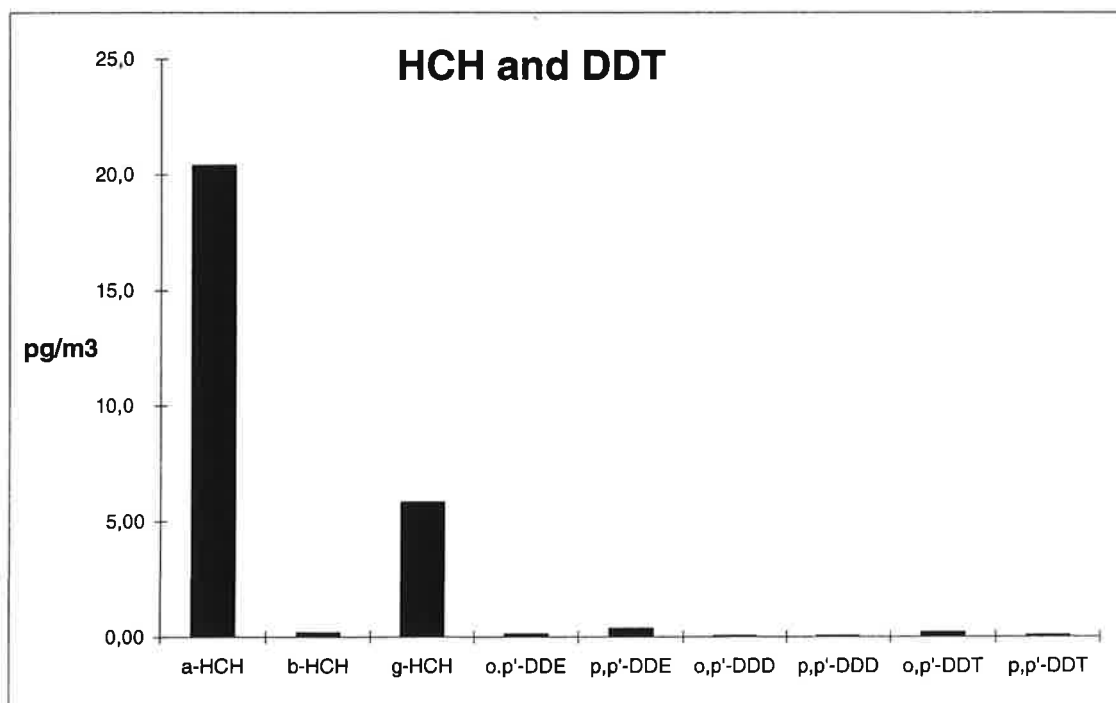


Kjeller, 06.10.03

Encl. to measuring report : O-2081
 NILU-Sample number : 03/840
 Customer : Amap 03
 Customers sample ID : 5-7.5.03 0752-0658
 : 160-160
 Sample type : Luft
 Sample amount : 1130 m3
 Concentration units : pg/m3
 Data files : DH465_DDT_19-09-2003

Compound Structure	Concentration pg/m3	Recovery %
α -HCH	20,4	59
β -HCH	0,15	
γ -HCH	5,80	59
o,p'-DDE	0,10	
p,p'-DDE	0,34 b	59
o,p'-DDD	0,01	
p,p'-DDD	0,02	
o,p'-DDT	0,17	
p,p'-DDT	0,04	78
Sum DDT	0,67	

< : Lower than detection limit at signal-to-noise 3 to 1
 i : Isotope ratio deviates more than 20 % from theoretical value
 This may be due to instrumental noise or/and chemical interference
 b : Lower than 10 times method blank
 g : Recovery is not according to NILUs quality criteria



Results of HCH and DDT Analysis

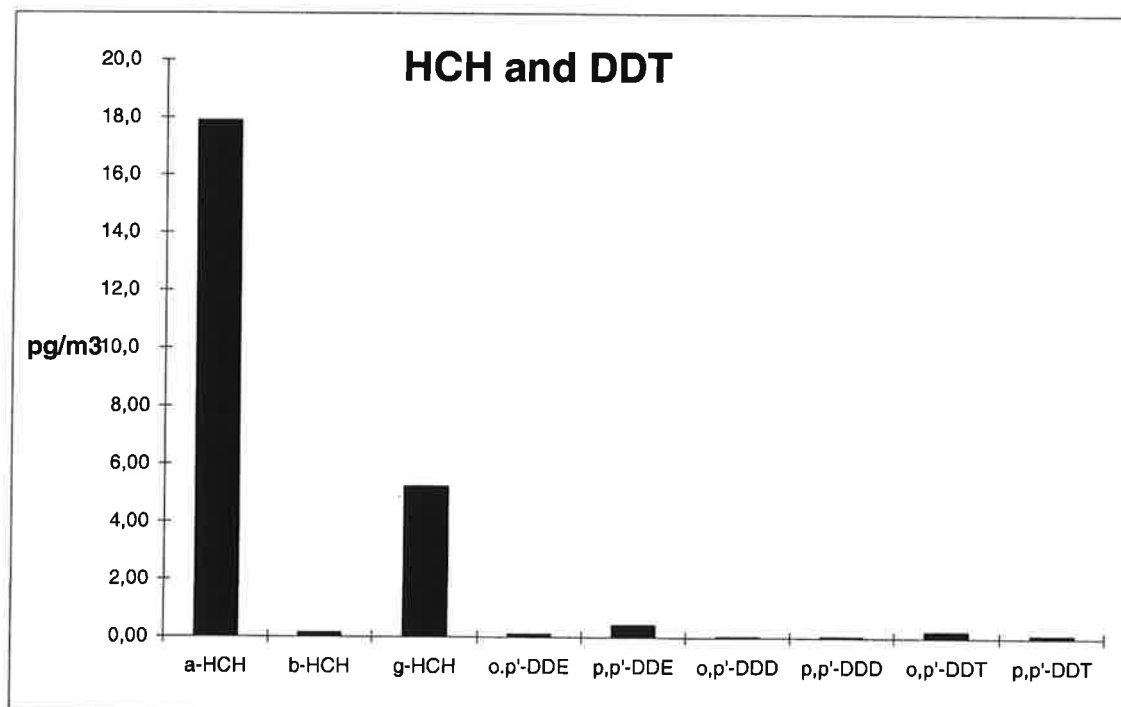


Kjeller, 06.10.03

Encl. to measuring report : O-2081
 NILU-Sample number : 03/843
 Customer : Amap 03
 Customers sample ID : 12-14.5.03 0732-0901
 : 160-150
 Sample type : Luft
 Sample amount : 1156 m3
 Concentration units : pg/m3
 Data files : DH465_DDT_19-09-2003

Compound Structure	Concentration pg/m3	Recovery %
α -HCH	17,9	65
β -HCH	0,12	
γ -HCH	5,21	64
o,p'-DDE	0,08	
p,p'-DDE	0,40 b	59
o,p'-DDD	0,02 i	
p,p'-DDD	0,03 i	
o,p'-DDT	0,20	
p,p'-DDT	0,08	80
Sum DDT	0,80	

< : Lower than detection limit at signal-to-noise 3 to 1
 i : Isotope ratio deviates more than 20 % from theoretical value
 This may be due to instrumental noise or/and chemical interference
 b : Lower than 10 times method blank
 g : Recovery is not according to NILUs quality criteria



Results of HCH and DDT Analysis

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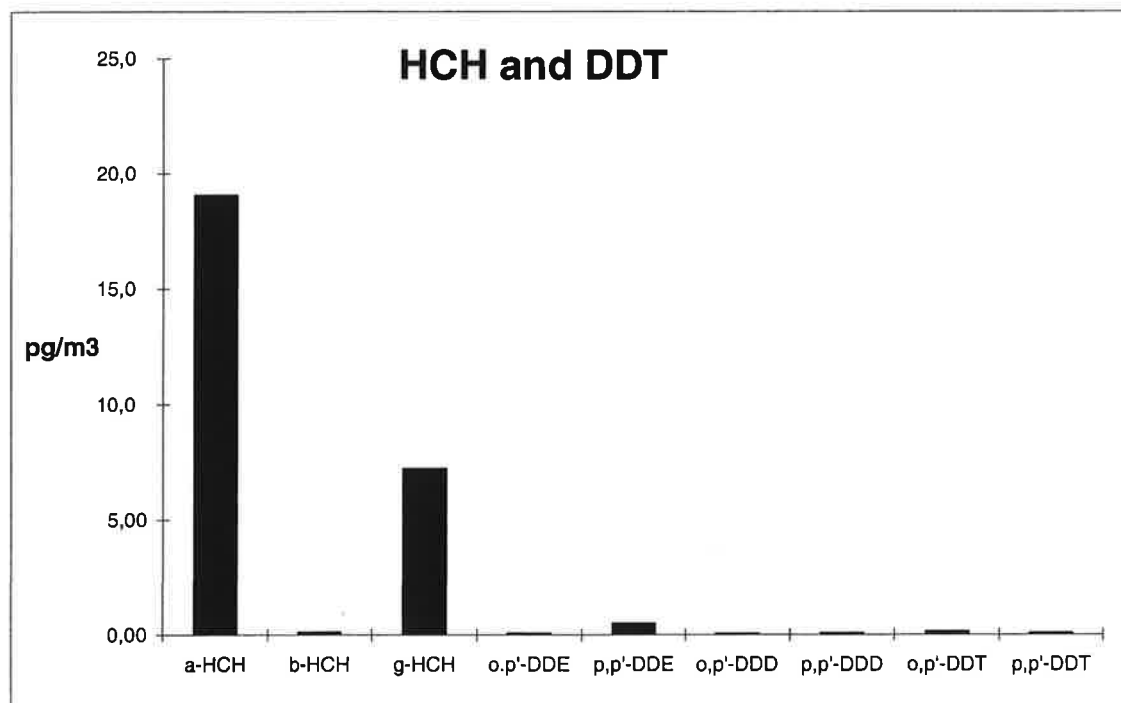


Kjeller, 06.10.03

Encl. to measuring report : O-2081
 NILU-Sample number : 03/846
 Customer : Amap 03
 Customers sample ID : 19-21.5.03 0810-0731
 : 160-160
 Sample type : Luft
 Sample amount : 1140 m3
 Concentration units : pg/m3
 Data files : DH465_DDT_19-09-2003

Compound Structure	Concentration pg/m3	Recovery %
α -HCH	19,0	67
β -HCH	0,10	
γ -HCH	7,20	63
o,p'-DDE	0,05 i	
p,p'-DDE	0,48 b	62
o,p'-DDD	0,02	
p,p'-DDD	0,06	
o,p'-DDT	0,12	
p,p'-DDT	0,05	79
Sum DDT	0,79	

< : Lower than detection limit at signal-to-noise 3 to 1
 i : Isotope ratio deviates more than 20 % from theoretical value
 This may be due to instrumental noise or/and chemical interference
 b : Lower than 10 times method blank
 g : Recovery is not according to NILUs quality criteria



Results of HCH and DDT Analysis

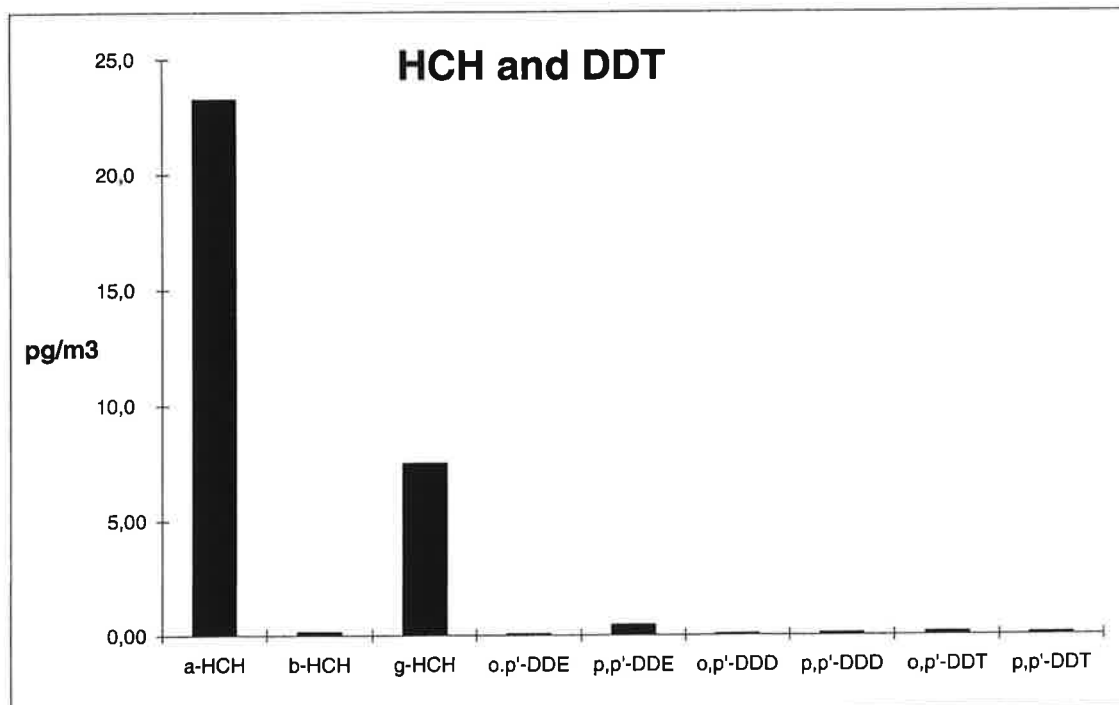


Kjeller, 06.10.03

Encl. to measuring report : O-2081
 NILU-Sample number : 03/849
 Customer : Amap 03
 Customers sample ID : 26-28.5.03 0740-0651
 : 160-158
 Sample type : Luft
 Sample amount : 1130 m3
 Concentration units : pg/m3
 Data files : DH465_DDT_19-09-2003

Compound Structure	Concentration pg/m3	Recovery %
α -HCH	23,2	56
β -HCH	0,11 i	
γ -HCH	7,47	58
o,p'-DDE	0,03	
p,p'-DDE	0,42 b	62
o,p'-DDD	0,02	
p,p'-DDD	0,05 i	
o,p'-DDT	0,09	
p,p'-DDT	0,06	81
Sum DDT	0,67	

< : Lower than detection limit at signal-to-noise 3 to 1
 i : Isotope ratio deviates more than 20 % from theoretical value
 This may be due to instrumental noise or/and chemical interference
 b : Lower than 10 times method blank
 g : Recovery is not according to NILUs quality criteria

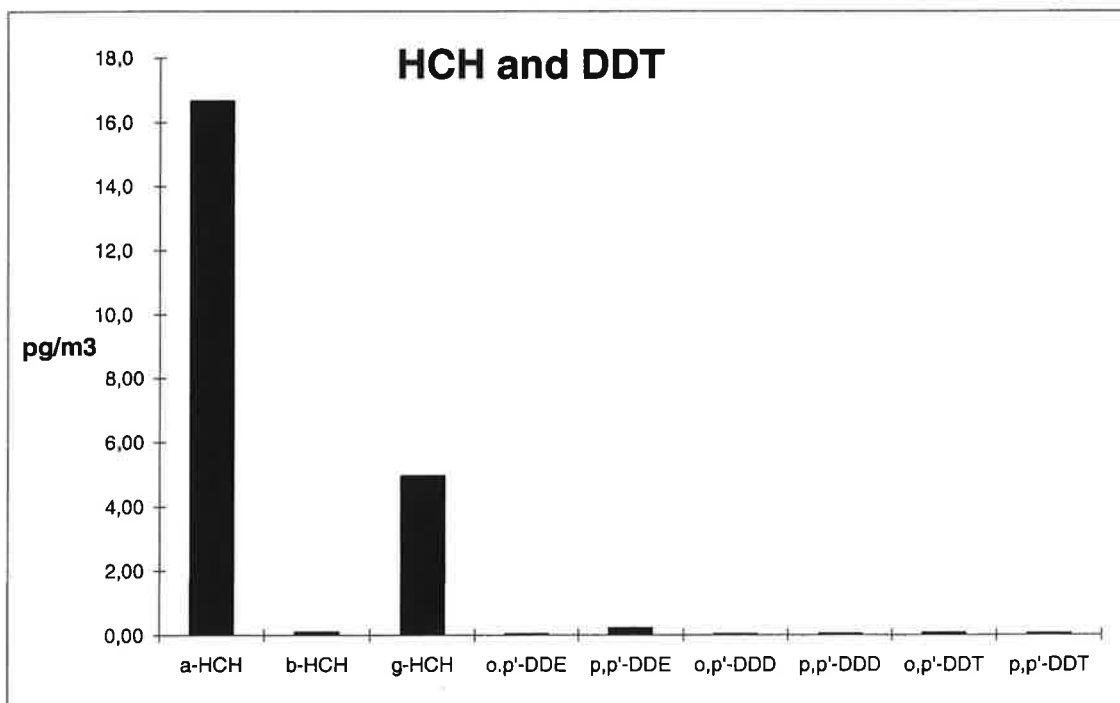


Results of HCH and DDT Analysis

Encl. to measuring report : O-2081
 NILU-Sample number : 03/1019
 Customer : Amap 03
 Customers sample ID : 4-6.6.03 0712-0819
 : 160-158
 Sample type : Luft
 Sample amount : 1176 m3
 Concentration units : pg/m3
 Data files : DH465_DDT_19-09-2003

Compound Structure	Concentration pg/m3	Recovery %
α -HCH	16,6	63
β -HCH	0,08 bi	
γ -HCH	4,93	60
o,p'-DDE	0,02	
p,p'-DDE	0,20 bi	64
o,p'-DDD	< 0,01	
p,p'-DDD	0,02	
o,p'-DDT	0,05	
p,p'-DDT	0,03	91
Sum DDT	0,34	

< : Lower than detection limit at signal-to-noise 3 to 1
 i : Isotope ratio deviates more than 20 % from theoretical value
 This may be due to instrumental noise or/and chemical interference
 b : Lower than 10 times method blank
 g : Recovery is not according to NILUs quality criteria



Results of HCH and DDT Analysis



Kjeller, 06.10.03

Encl. to measuring report : O-2081
 NILU-Sample number : 03/1022
 Customer : Amap 03
 Customers sample ID : 11-13.6.03 0902-0732
 : 160-164
 Sample type : Luft
 Sample amount : 1135 m3
 Concentration units : pg/m3
 Data files : DH465_DDT_19-09-2003

Compound Structure	Concentration pg/m3	Recovery %
α -HCH	24,5	57
β -HCH	0,06 b	
γ -HCH	4,66	56
o,p'-DDE	0,02 i	
p,p'-DDE	0,14 b	61
o,p'-DDD	< 0,01	
p,p'-DDD	< 0,01	
o,p'-DDT	0,05 i	
p,p'-DDT	0,02 i	91
Sum DDT	0,25	

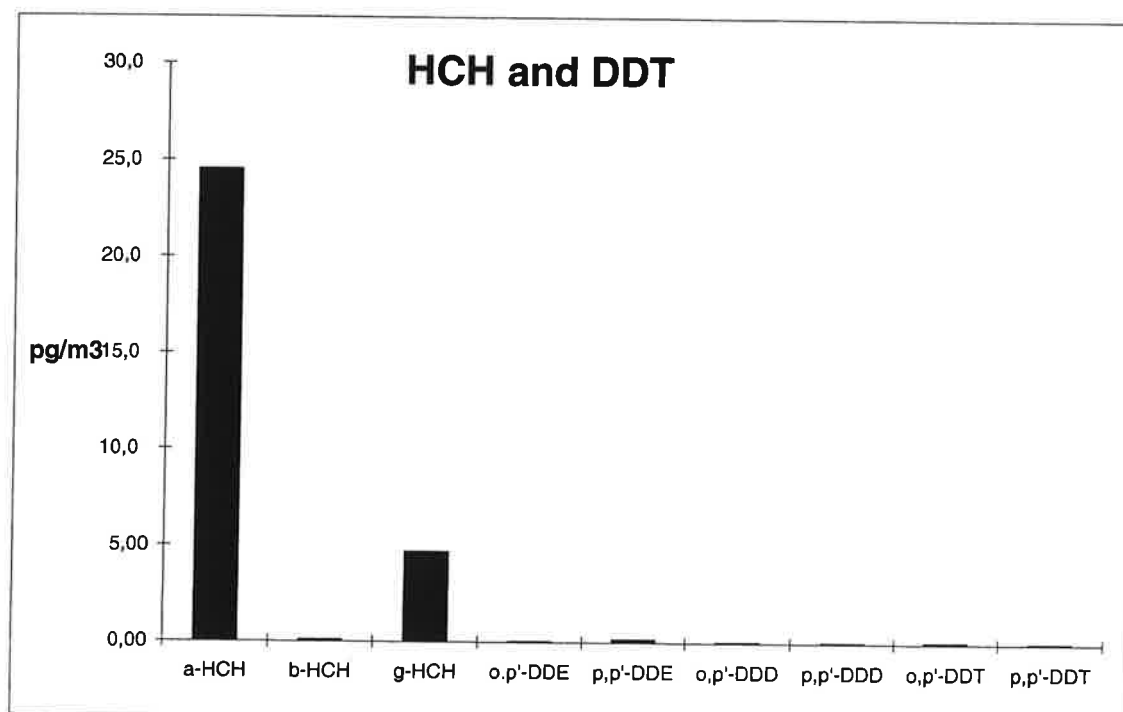
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank

g : Recovery is not according to NILUs quality criteria



Results of HCH and DDT Analysis

245

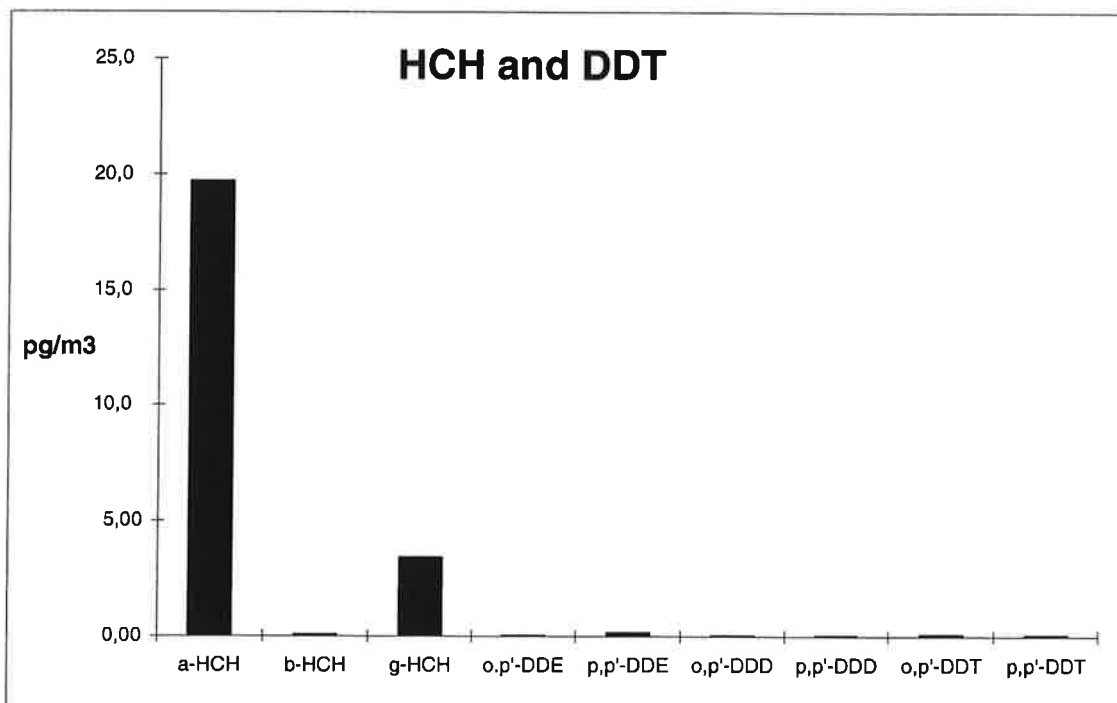


Kjeller, 06.10.03

Encl. to measuring report : O-2081
 NILU-Sample number : 03/1025
 Customer : Amap 03
 Customers sample ID : 18-20.6.03 0700-0754
 : 160-157
 Sample type : Luft
 Sample amount : 1169 m3
 Concentration units : pg/m3
 Data files : DH465_DDT_19-09-2003

Compound Structure	Concentration pg/m3	Recovery %
α -HCH	19,7	58
β -HCH	0,05 b	
γ -HCH	3,40	57
o,p'-DDE	0,02	
p,p'-DDE	0,14 b	58
o,p'-DDD	0,01 i	
p,p'-DDD	0,01	
o,p'-DDT	0,07	
p,p'-DDT	0,04	93
Sum DDT	0,29	

< : Lower than detection limit at signal-to-noise 3 to 1
 i : Isotope ratio deviates more than 20 % from theoretical value
 This may be due to instrumental noise or/and chemical interference
 b : Lower than 10 times method blank
 g : Recovery is not according to NILUs quality criteria



Results of HCH and DDT Analysis



Kjeller, 06.10.03

Encl. to measuring report : O-2081
 NILU-Sample number : 03/1028
 Customer : Amap 03
 Customers sample ID : 25-27.6.03 0727-0726
 : 160-165
 Sample type : Luft
 Sample amount : 1176 m3
 Concentration units : pg/m3
 Data files : DH465_DDT_19-09-2003

Compound Structure	Concentration pg/m3	Recovery %
α -HCH	16,0	64
β -HCH	0,04 bi	
γ -HCH	2,71	62
o,p'-DDE	0,02 i	
p,p'-DDE	0,13 b	67
o,p'-DDD	< 0,01	
p,p'-DDD	< 0,01	
o,p'-DDT	0,05	
p,p'-DDT	< 0,01	94
Sum DDT	0,24	

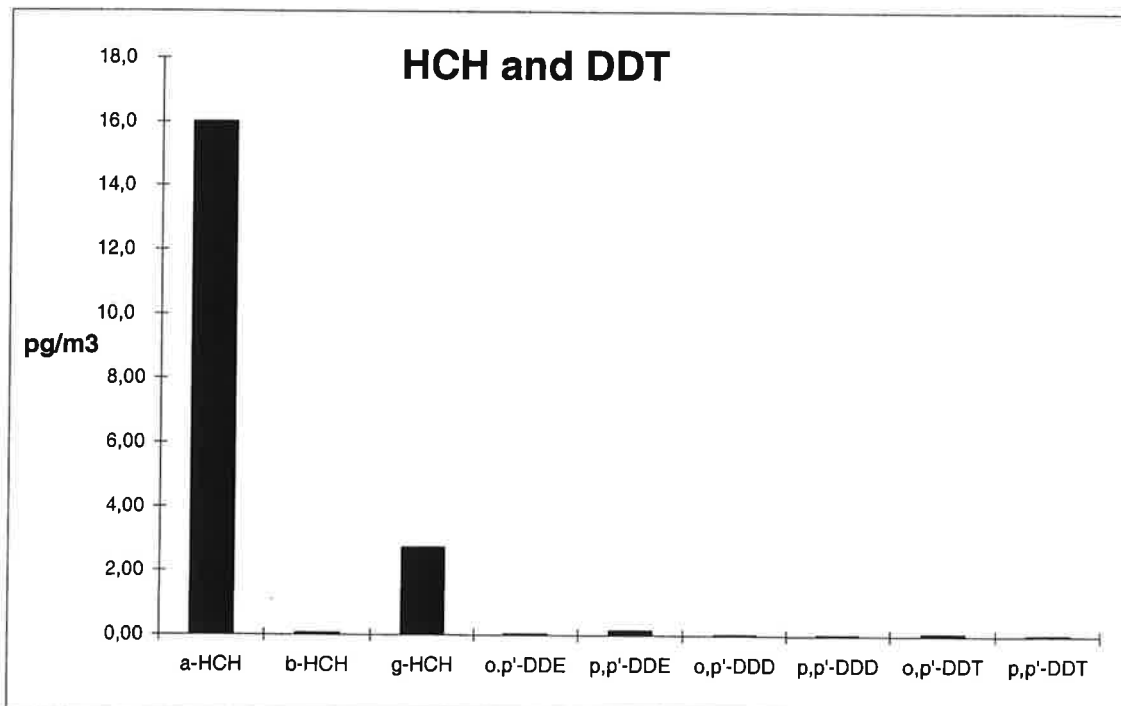
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank

g : Recovery is not according to NILUs quality criteria



Results of HCH and DDT Analysis

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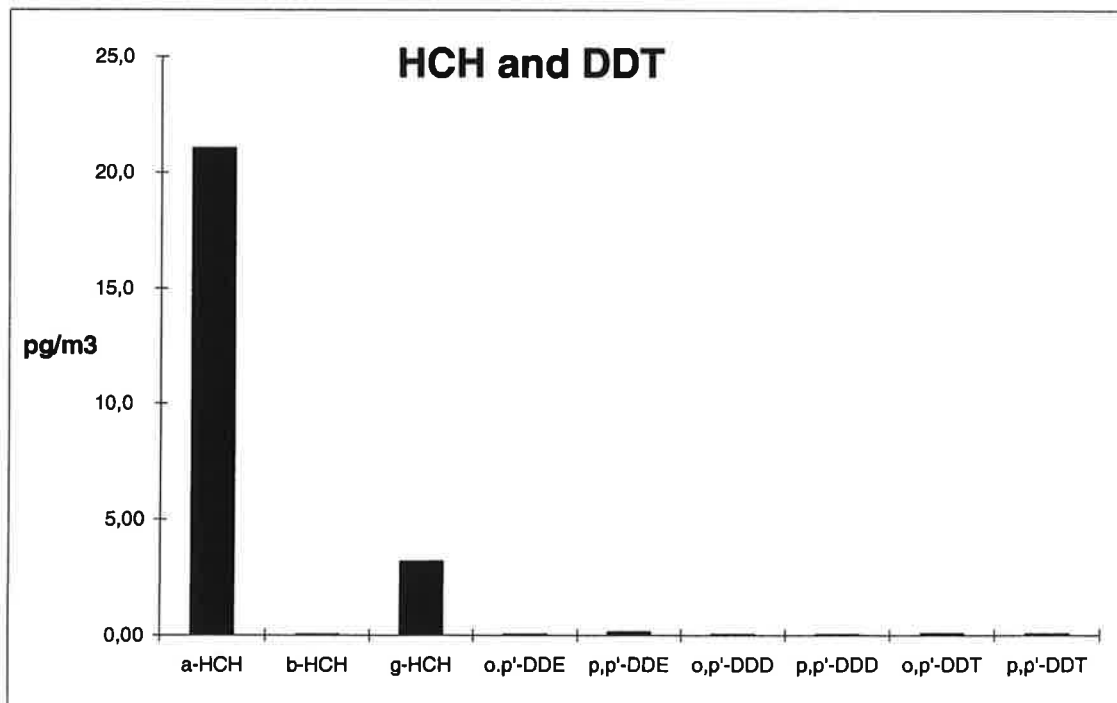


Kjeller, 14.01.04

Encl. to measuring report : O-2081
 NILU-Sample number : 03/1242
 Customer : Amap 03
 Customers sample ID : 4-6.7.03 0735-0935
 : 160-155
 Sample type : Luft
 Sample amount : 1188 m3
 Concentration units : pg/m3
 Data files : DH520B_DDT_30-12-2003

Compound Structure	Concentration pg/m3	Recovery %
α -HCH	21,0	54
β -HCH	< 0,01 b	
γ -HCH	3,16	50
o,p'-DDE	0,02 i	
p,p'-DDE	0,12 b	62
o,p'-DDD	< 0,01	
p,p'-DDD	< 0,01	
o,p'-DDT	0,06	
p,p'-DDT	0,04	79
Sum DDT	0,25	

< : Lower than detection limit at signal-to-noise 3 to 1
 i : Isotope ratio deviates more than 20 % from theoretical value
 This may be due to instrumental noise or/and chemical interference
 b : Lower than 10 times method blank
 g : Recovery is not according to NILUs quality criteria



Results of HCH and DDT Analysis

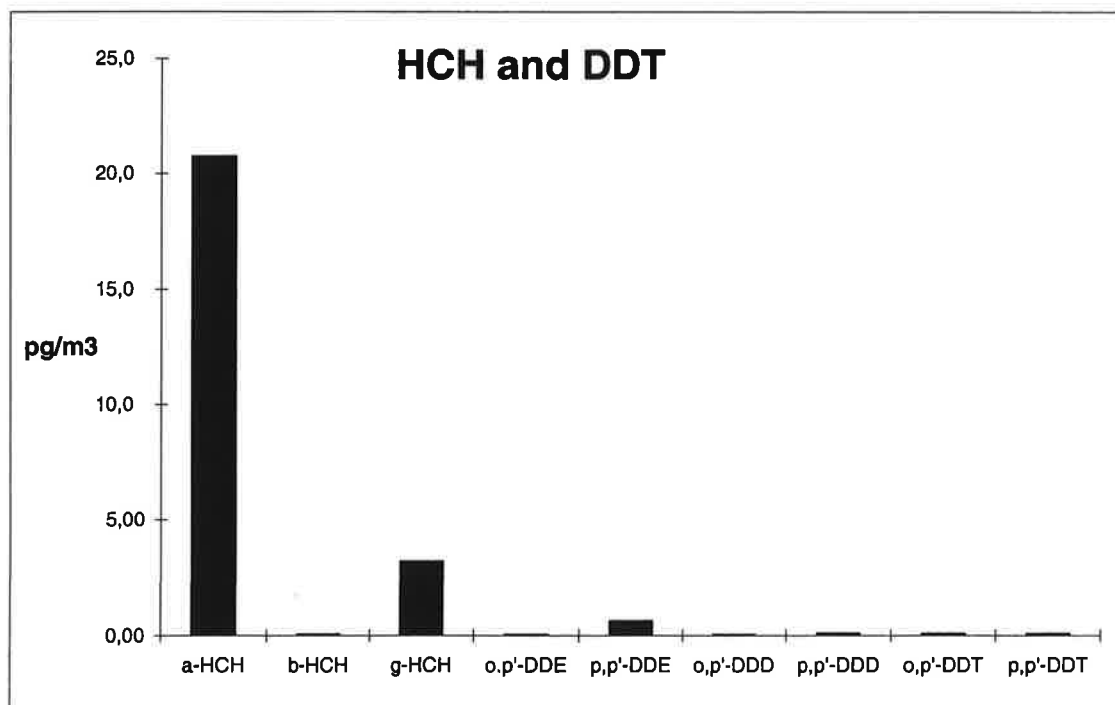


Kjeller, 14.01.04

Encl. to measuring report : O-2081
 NILU-Sample number : 03/1244
 Customer : Amap 03
 Customers sample ID : 9-11.7.03 0800-0737
 : 160-160
 Sample type : Luft
 Sample amount : 1147 m3
 Concentration units : pg/m3
 Data files : DH520B_30-12-2003

Compound Structure	Concentration pg/m3	Recovery %
α -HCH	20,7	55
β -HCH	0,04 b	
γ -HCH	3,17	46
o,p'-DDE	0,03	
p,p'-DDE	0,62	65
o,p'-DDD	0,02	
p,p'-DDD	0,08	
o,p'-DDT	0,07	
p,p'-DDT	0,07	86
Sum DDT	0,89	

< : Lower than detection limit at signal-to-noise 3 to 1
 i : Isotope ratio deviates more than 20 % from theoretical value
 This may be due to instrumental noise or/and chemical interference
 b : Lower than 10 times method blank
 g : Recovery is not according to NILUs quality criteria



Results of HCH and DDT Analysis

249

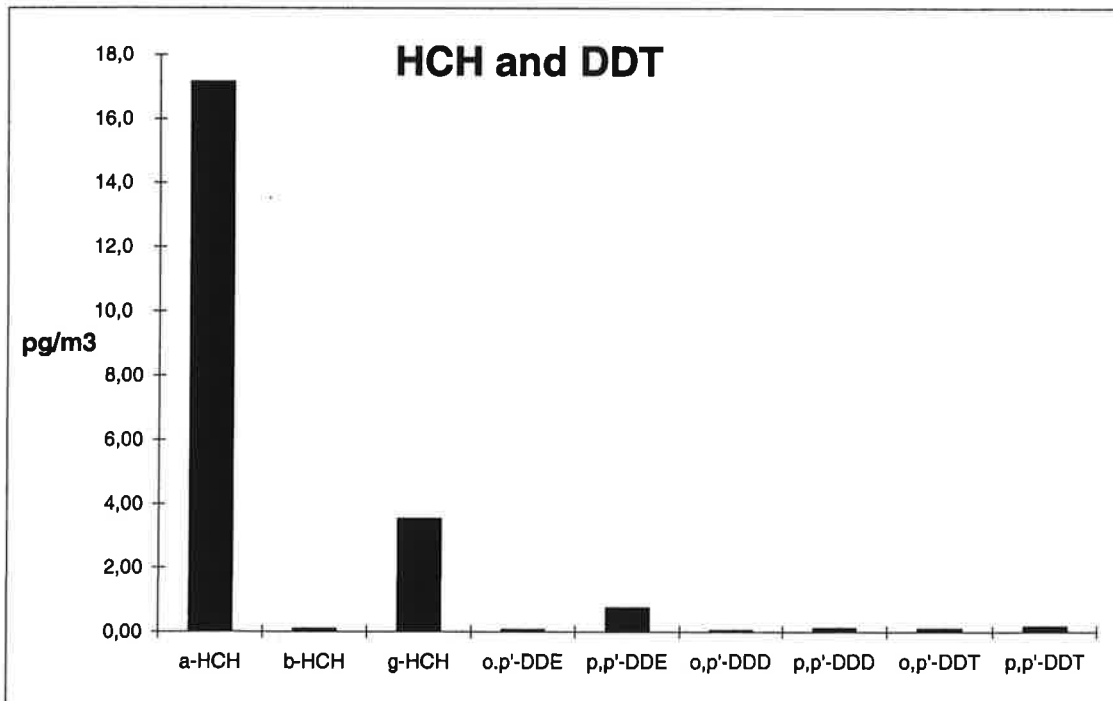


Kjeller, 14.01.04

Encl. to measuring report : O-2081
 NILU-Sample number : 03/1247
 Customer : Amap 03
 Customers sample ID : 16-18.7.03 0851-0736
 : 160-163
 Sample type : Luft
 Sample amount : 1132 m3
 Concentration units : pg/m3
 Data files : DH520B_DDT_30-12-2003

Compound Structure	Concentration pg/m3	Recovery %
α -HCH	17,1	55
β -HCH	0,07 bi	
γ -HCH	3,52	27
o,p'-DDE	0,05	
p,p'-DDE	0,73	63
o,p'-DDD	0,03	
p,p'-DDD	0,10	
o,p'-DDT	0,08	
p,p'-DDT	0,15	86
Sum DDT	1,13	

< : Lower than detection limit at signal-to-noise 3 to 1
 i : Isotope ratio deviates more than 20 % from theoretical value
 This may be due to instrumental noise or/and chemical interference
 b : Lower than 10 times method blank
 g : Recovery is not according to NILUs quality criteria



Results of HCH and DDT Analysis

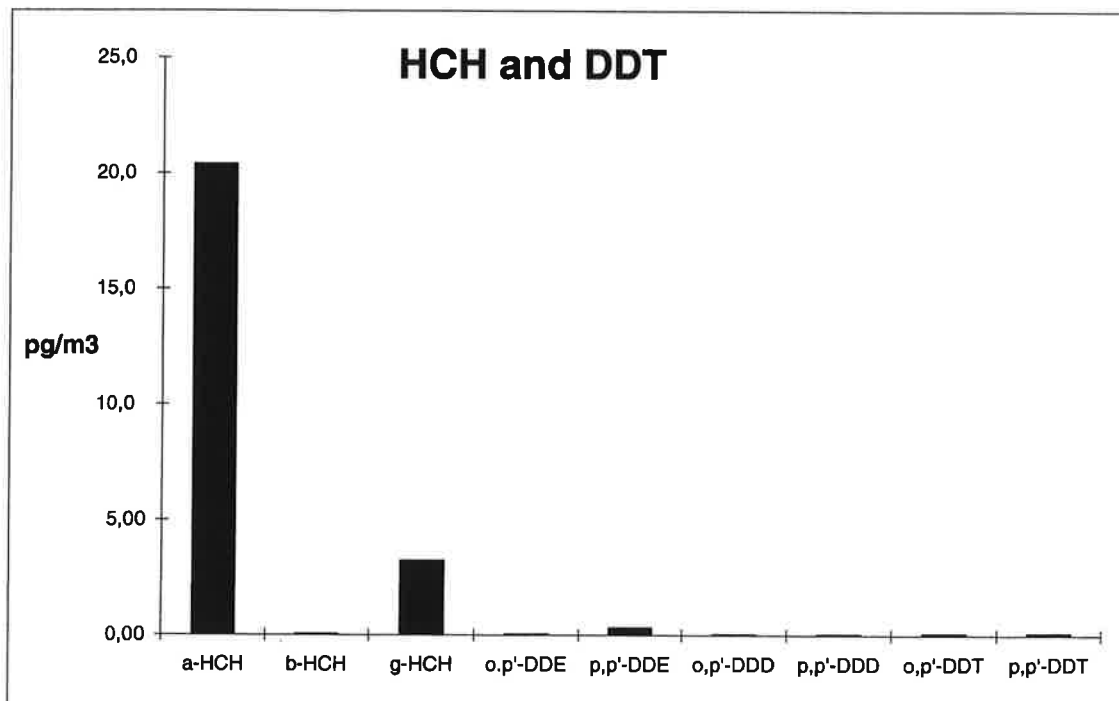


Kjeller, 14.01.04

Encl. to measuring report : O-2081
 NILU-Sample number : 03/1250
 Customer : Amap 03
 Customers sample ID : 23-25.7.03 0756-0716
 : 160-160
 Sample type : Luft
 Sample amount : 1140 m3
 Concentration units : pg/m3
 Data files : DH520B_DDT_30-12-2003

Compound Structure	Concentration pg/m3	Recovery %
α -HCH	20,4	57
β -HCH	< 0,01	
γ -HCH	3,22	49
o,p'-DDE	0,02	
p,p'-DDE	0,29 b	65
o,p'-DDD	0,01	
p,p'-DDD	0,01	
o,p'-DDT	0,06	
p,p'-DDT	0,07	74
Sum DDT	0,46	

< : Lower than detection limit at signal-to-noise 3 to 1
 i : Isotope ratio deviates more than 20 % from theoretical value
 This may be due to instrumental noise or/and chemical interference
 b : Lower than 10 times method blank
 g : Recovery is not according to NILUs quality criteria



Results of HCH and DDT Analysis

251

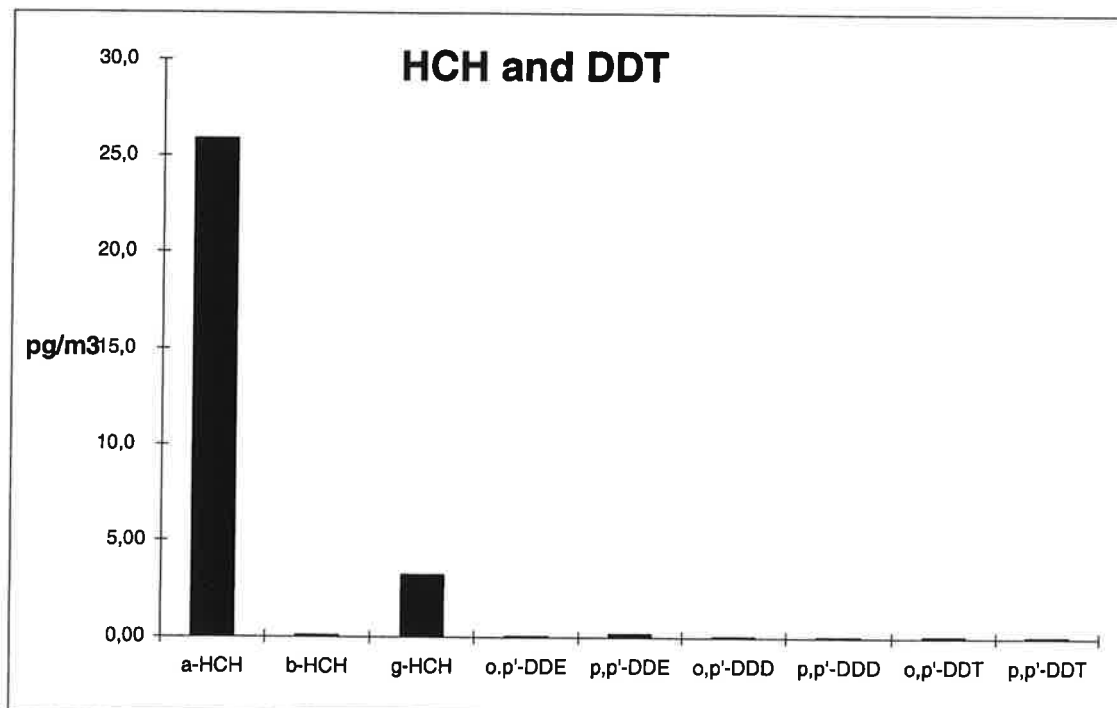


Kjeller, 14.01.04

Encl. to measuring report : O-2081
 NILU-Sample number : 03/1254
 Customer : Amap 03
 Customers sample ID : 1-3.8.03 0735-0913
 : 160-159
 Sample type : Luft
 Sample amount : 1193 m3
 Concentration units : pg/m3
 Data files : DH520B_DDT_30-12-2003

Compound Structure	Concentration pg/m3	Recovery %
α -HCH	25,8	63
β -HCH	0,04 bi	
γ -HCH	3,17	54
o,p'-DDE	0,02 i	
p,p'-DDE	0,15 b	70
o,p'-DDD	< 0,01	
p,p'-DDD	< 0,01	
o,p'-DDT	0,05	
p,p'-DDT	0,04	93
Sum DDT	0,28	

< : Lower than detection limit at signal-to-noise 3 to 1
 i : Isotope ratio deviates more than 20 % from theoretical value
 This may be due to instrumental noise or/and chemical interference
 b : Lower than 10 times method blank
 g : Recovery is not according to NILUs quality criteria



Results of HCH and DDT Analysis

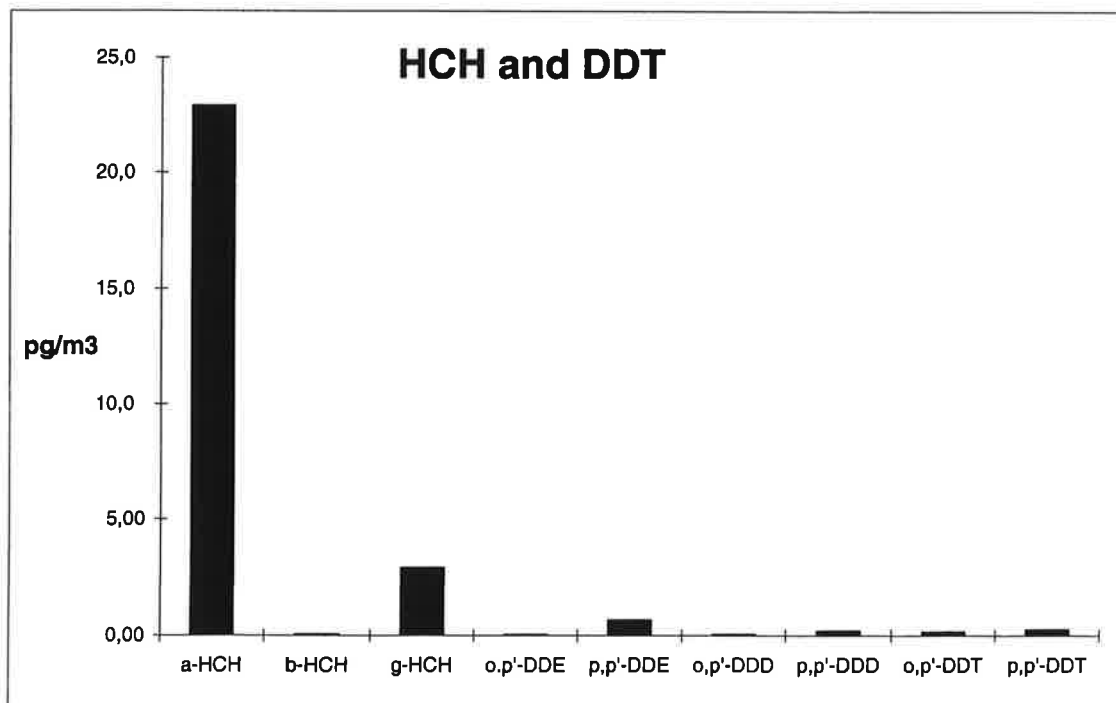


Kjeller, 14.01.04

Encl. to measuring report : O-2081
 NILU-Sample number : 03/1256
 Customer : Amap 03
 Customers sample ID : 6-8.8.03 0754-0659
 : 160-160
 Sample type : Luft
 Sample amount : 1135 m3
 Concentration units : pg/m3
 Data files : DH525_DDT_13-01-2004

Compound Structure	Concentration pg/m3	Recovery %
α -HCH	22,9	39
β -HCH	< 0,03	
γ -HCH	2,89	38
o,p'-DDE	0,02	
p,p'-DDE	0,63	49
o,p'-DDD	0,03 i	
p,p'-DDD	0,19 i	
o,p'-DDT	0,14	
p,p'-DDT	0,24	33 g
Sum DDT	1,25	

< : Lower than detection limit at signal-to-noise 3 to 1
 i : Isotope ratio deviates more than 20 % from theoretical value
 This may be due to instrumental noise or/and chemical interference
 b : Lower than 10 times method blank
 g : Recovery is not according to NILUs quality criteria



Results of HCH and DDT Analysis

253

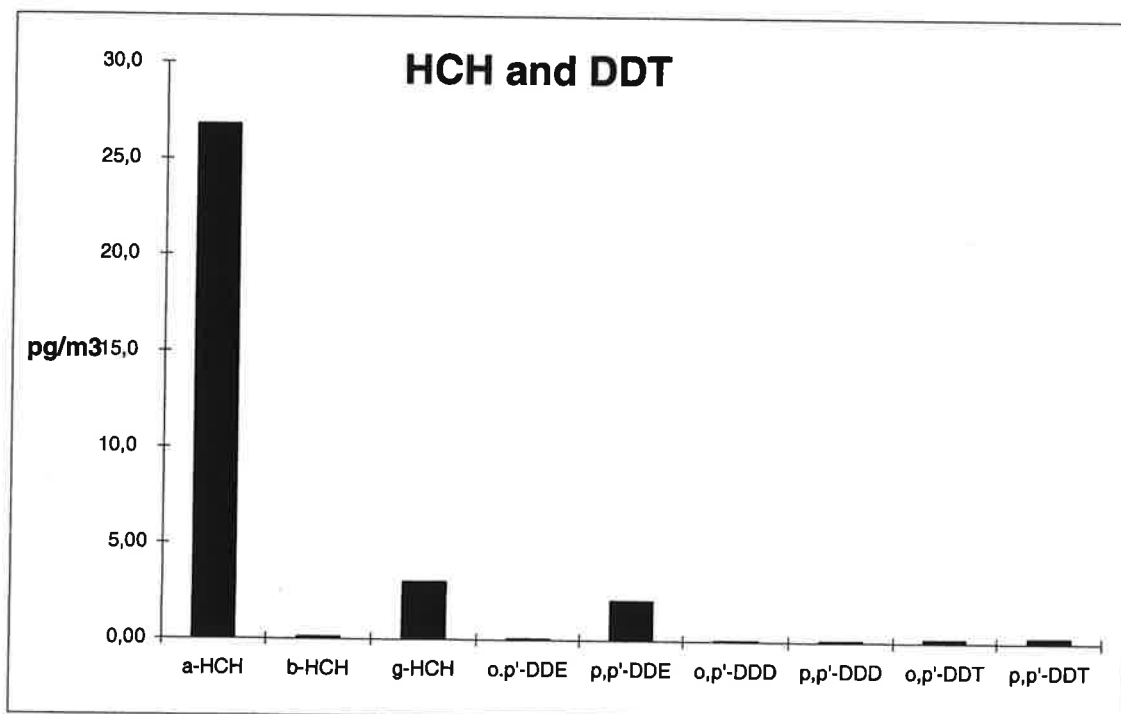


Kjeller, 14.01.04

Encl. to measuring report : O-2081
 NILU-Sample number : 03/1259
 Customer : Amap 03
 Customers sample ID : 13-15.8.03 0740-0849
 : 160-158
 Sample type : Luft
 Sample amount : 1178 m3
 Concentration units : pg/m3
 Data files : DH520B_DDT_30-12-2003

Compound Structure	Concentration pg/m3	Recovery %
α -HCH	26,8	67
β -HCH	0,08 b	
γ -HCH	2,98	59
o,p'-DDE	0,03	
p,p'-DDE	2,04	64
o,p'-DDD	0,02	
p,p'-DDD	0,05	
o,p'-DDT	0,15	
p,p'-DDT	0,24	82
Sum DDT	2,53	

< : Lower than detection limit at signal-to-noise 3 to 1
 i : Isotope ratio deviates more than 20 % from theoretical value
 This may be due to instrumental noise or/and chemical interference
 b : Lower than 10 times method blank
 g : Recovery is not according to NILUs quality criteria



Results of HCH and DDT Analysis

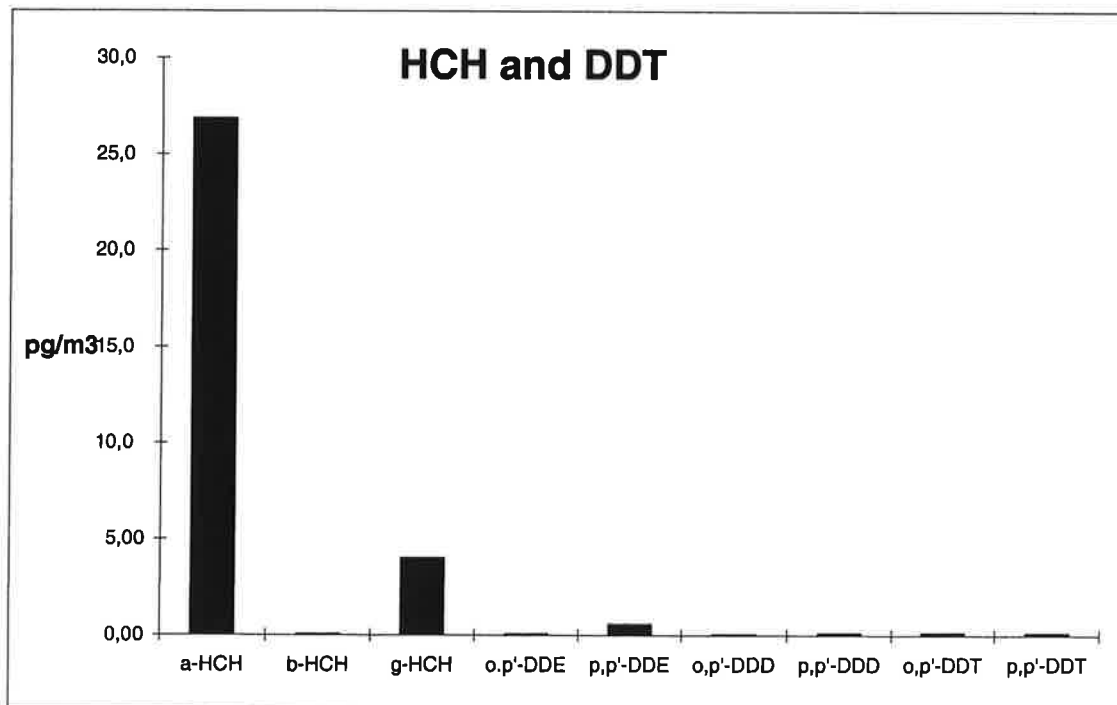


Kjeller, 14.01.04

Encl. to measuring report : O-2081
 NILU-Sample number : 03/1262
 Customer : Amap 03
 Customers sample ID : 20-22.8.03 0804-0813
 : 160-158
 Sample type : Luft
 Sample amount : 1154 m3
 Concentration units : pg/m3
 Data files : DH520B_DDT_30-12-2003

Compound Structure	Concentration pg/m3	Recovery %
α -HCH	26,8	61
β -HCH	< 0,01	
γ -HCH	3,98	43
o,p'-DDE	0,03	
p,p'-DDE	0,57	64
o,p'-DDD	0,02	
p,p'-DDD	0,08	
o,p'-DDT	0,10	
p,p'-DDT	0,09	87
Sum DDT	0,89	

< : Lower than detection limit at signal-to-noise 3 to 1
 i : Isotope ratio deviates more than 20 % from theoretical value
 This may be due to instrumental noise or/and chemical interference
 b : Lower than 10 times method blank
 g : Recovery is not according to NILUs quality criteria



Results of HCH and DDT Analysis

255

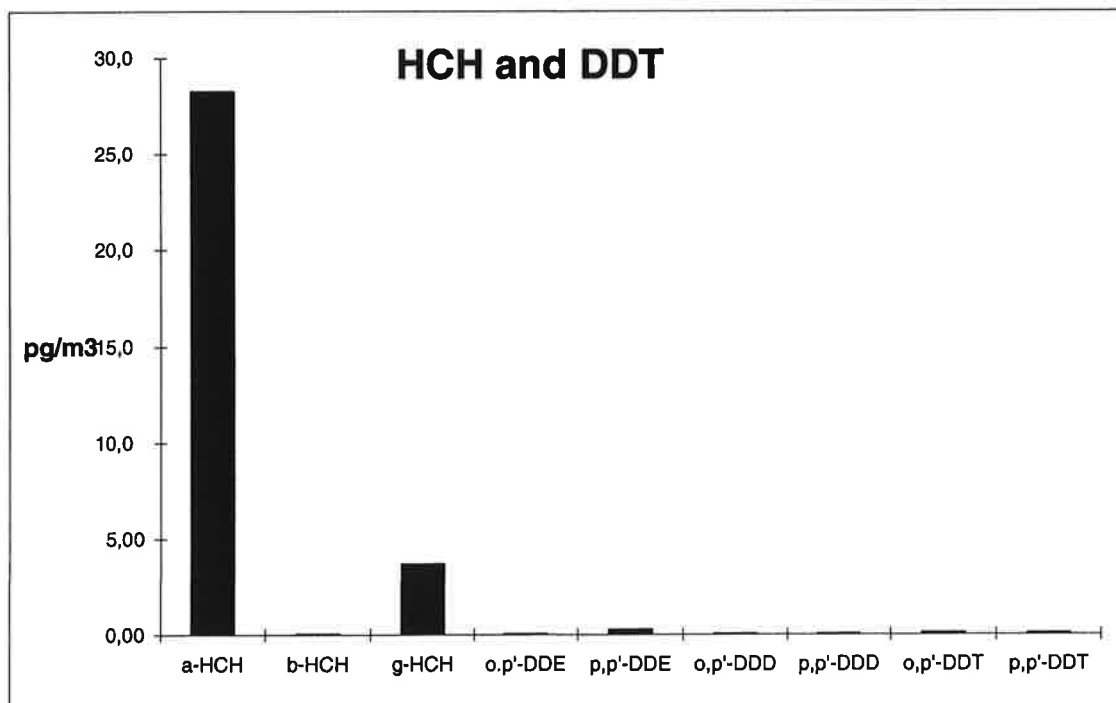


Kjeller, 14.01.04

Encl. to measuring report : O-2081
 NILU-Sample number : 03/1265
 Customer : Amap 03
 Customers sample ID : 27-29.8.03 0710-0735
 : 160-160
 Sample type : Luft
 Sample amount : 1166 m3
 Concentration units : pg/m3
 Data files : DH520B_DDT_30-12-2003

Compound Structure	Concentration pg/m3	Recovery %
α -HCH	28,2	72
β -HCH	< 0,01	
γ -HCH	3,66	56
o,p'-DDE	0,02	69
p,p'-DDE	0,23 b	
o,p'-DDD	< 0,01	
p,p'-DDD	0,01	
o,p'-DDT	0,06	
p,p'-DDT	0,05	105
Sum DDT	0,38	

< : Lower than detection limit at signal-to-noise 3 to 1
 i : Isotope ratio deviates more than 20 % from theoretical value
 This may be due to instrumental noise or/and chemical interference
 b : Lower than 10 times method blank
 g : Recovery is not according to NILUs quality criteria



Results of HCH and DDT Analysis

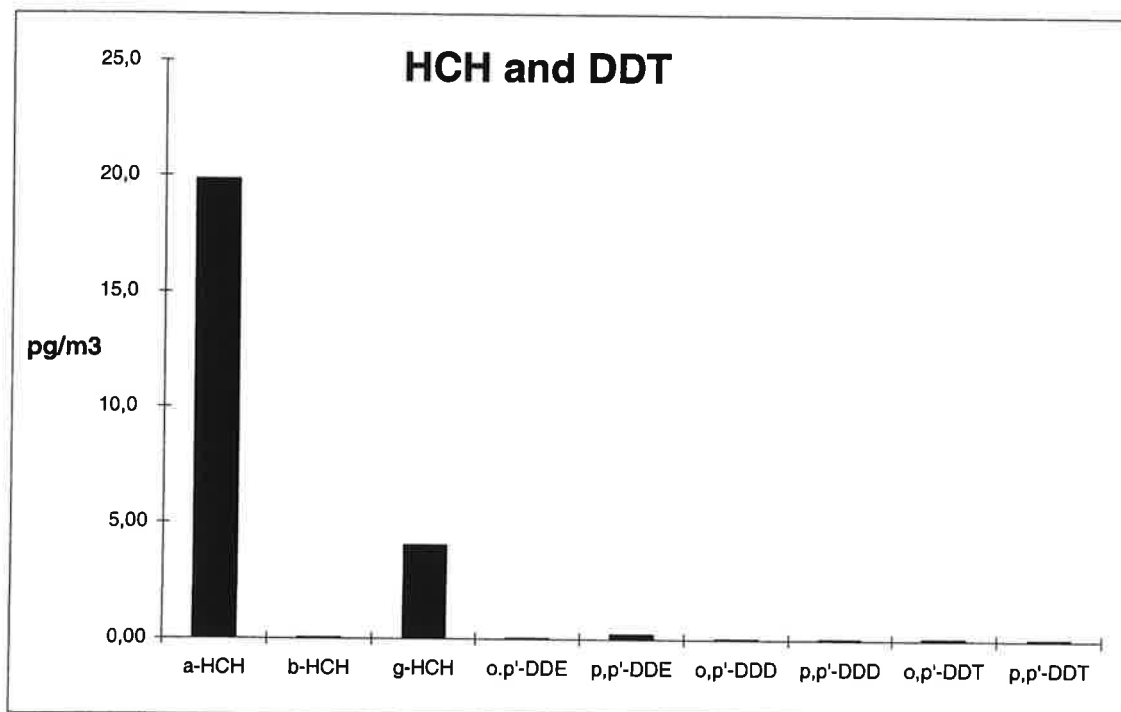


Kjeller, 14.01.04

Encl. to measuring report : O-2081
 NILU-Sample number : 03/1516
 Customer : Amap 03
 Customers sample ID : 3-5.9.03 0753-0737
 : 160-166
 Sample type : Luft
 Sample amount : 1171 m3
 Concentration units : pg/m3
 Data files : DH520B_DDT_30-12-2003

Compound Structure	Concentration pg/m3	Recovery %
α -HCH	19,8	72
β -HCH	< 0,01	
γ -HCH	3,99	38
o,p'-DDE	0,02	
p,p'-DDE	0,19 b	71
o,p'-DDD	0,01	
p,p'-DDD	0,03	
o,p'-DDT	0,06	
p,p'-DDT	0,04	101
Sum DDT	0,35	

< : Lower than detection limit at signal-to-noise 3 to 1
 i : Isotope ratio deviates more than 20 % from theoretical value
 This may be due to instrumental noise or/and chemical interference
 b : Lower than 10 times method blank
 g : Recovery is not according to NILUs quality criteria



Results of HCH and DDT Analysis

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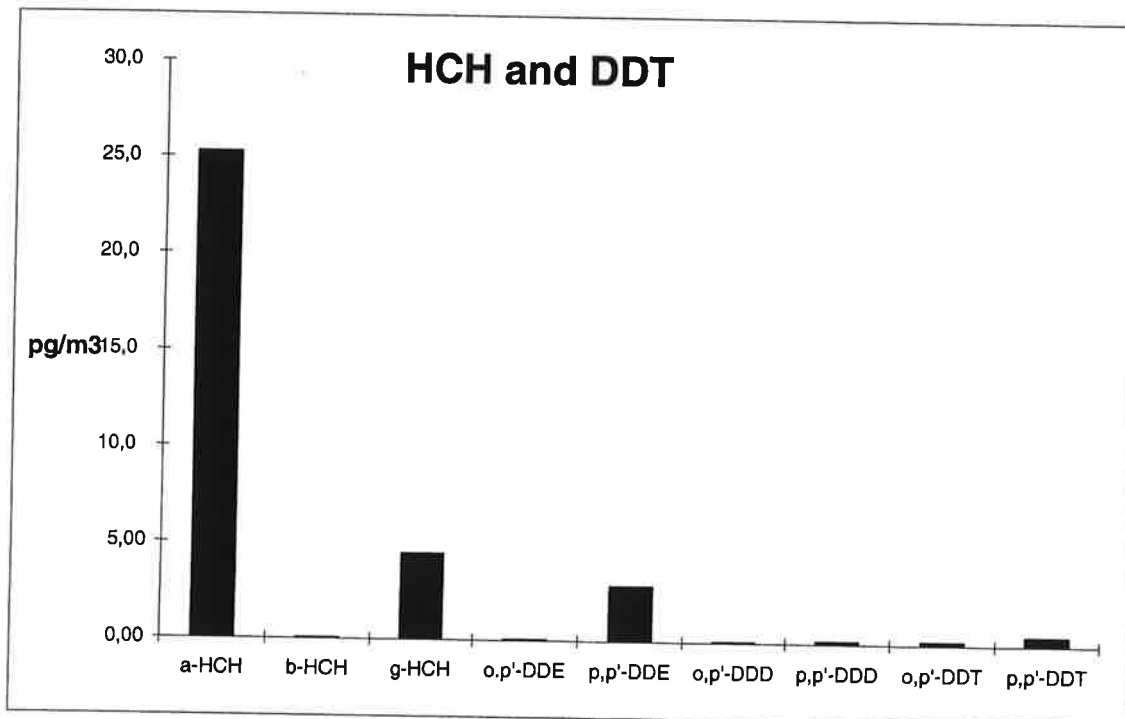


Kjeller, 14.01.04

Encl. to measuring report : O-2081
 NILU-Sample number : 03/1519
 Customer : Amap 03
 Customers sample ID : 10-12.9.03 0700-0702
 : 160-157
 Sample type : Luft
 Sample amount : 1147 m3
 Concentration units : pg/m3
 Data files : DH520B_DDT_30-12-2003

Compound Structure	Concentration pg/m3	Recovery %
α -HCH	25,2	64
β -HCH	< 0,01	
γ -HCH	4,42	44
o,p'-DDE	0,03	
p,p'-DDE	2,84	81
o,p'-DDD	0,03	
p,p'-DDD	0,14	
o,p'-DDT	0,17	
p,p'-DDT	0,44	97
Sum DDT	3,66	

< : Lower than detection limit at signal-to-noise 3 to 1
 i : Isotope ratio deviates more than 20 % from theoretical value
 This may be due to instrumental noise or/and chemical interference
 b : Lower than 10 times method blank
 g : Recovery is not according to NILUs quality criteria



Results of HCH and DDT Analysis



Kjeller, 14.01.04

Encl. to measuring report : O-2081
 NILU-Sample number : 03/1522
 Customer : Amap 03
 Customers sample ID : 17-19.9.03 0808-0726
 : 160-160
 Sample type : Luft
 Sample amount : 1140 m3
 Concentration units : pg/m3
 Data files : DH520B_DDT_30-12-2003

Compound Structure	Concentration pg/m3	Recovery %
α -HCH	28,0	61
β -HCH	< 0,01	
γ -HCH	5,51	39
o,p'-DDE	0,03 i	
p,p'-DDE	0,14 b	57
o,p'-DDD	< 0,01	
p,p'-DDD	0,02	
o,p'-DDT	0,11	
p,p'-DDT	0,04	85
Sum DDT	0,33	

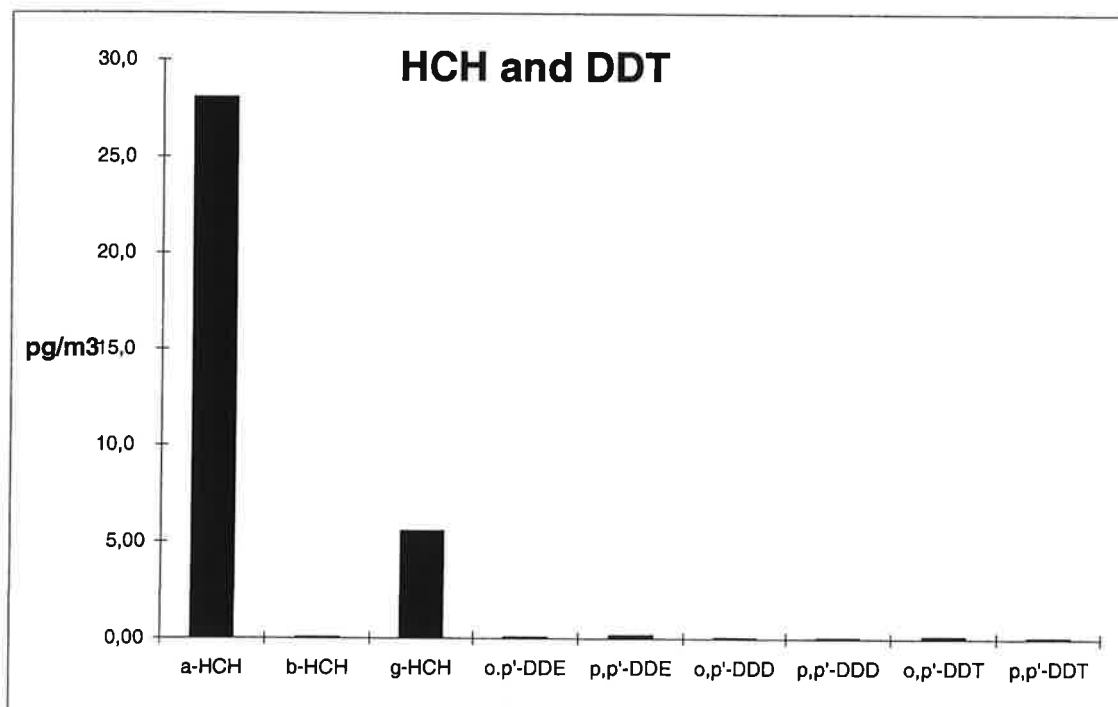
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank

g : Recovery is not according to NILUs quality criteria



Results of HCH and DDT Analysis

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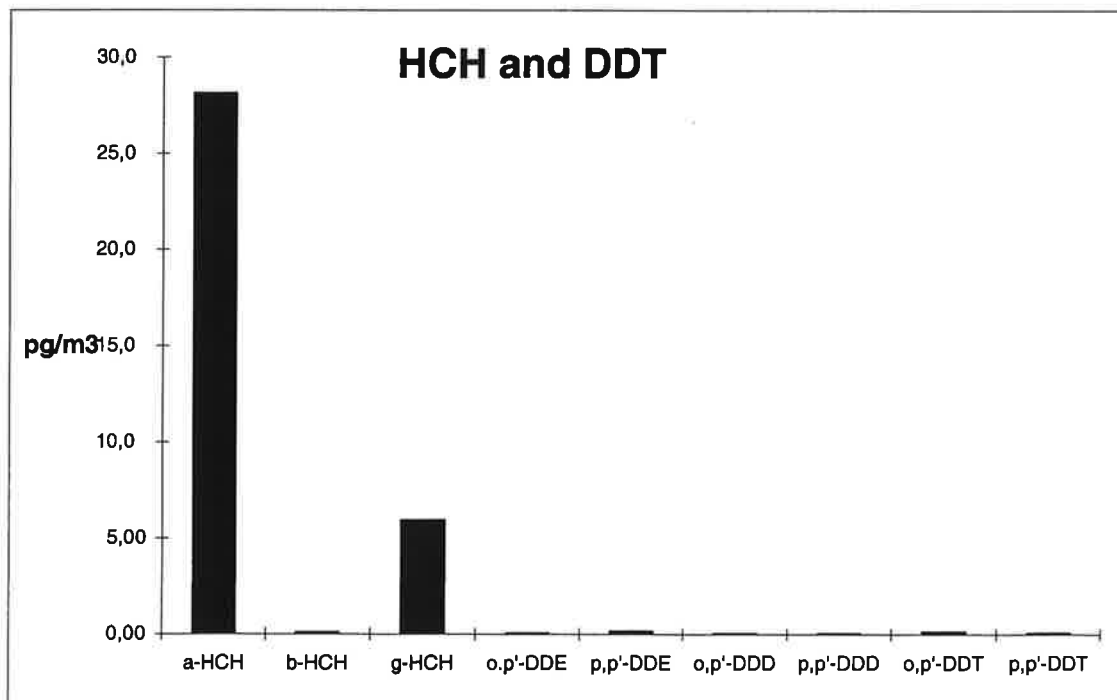


Kjeller, 14.01.04

Encl. to measuring report : O-2081
 NILU-Sample number : 03/1525
 Customer : Amap 03
 Customers sample ID : 24-26.9.03 0738-1000
 : 160-162
 Sample type : Luft
 Sample amount : 1220 m3
 Concentration units : pg/m3
 Data files : DH520B_DDT_30-12-2003

Compound Structure	Concentration pg/m3	Recovery %
α -HCH	28,1	45
β -HCH	0,07 bi	
γ -HCH	5,91	34
o,p'-DDE	0,03	
p,p'-DDE	0,13 b	59
o,p'-DDD	0,01	
p,p'-DDD	< 0,01	
o,p'-DDT	0,12	
p,p'-DDT	0,05	80
Sum DDT	0,35	

< : Lower than detection limit at signal-to-noise 3 to 1
 i : Isotope ratio deviates more than 20 % from theoretical value
 This may be due to instrumental noise or/and chemical interference
 b : Lower than 10 times method blank
 g : Recovery is not according to NILUs quality criteria



Results of HCH and DDT Analysis

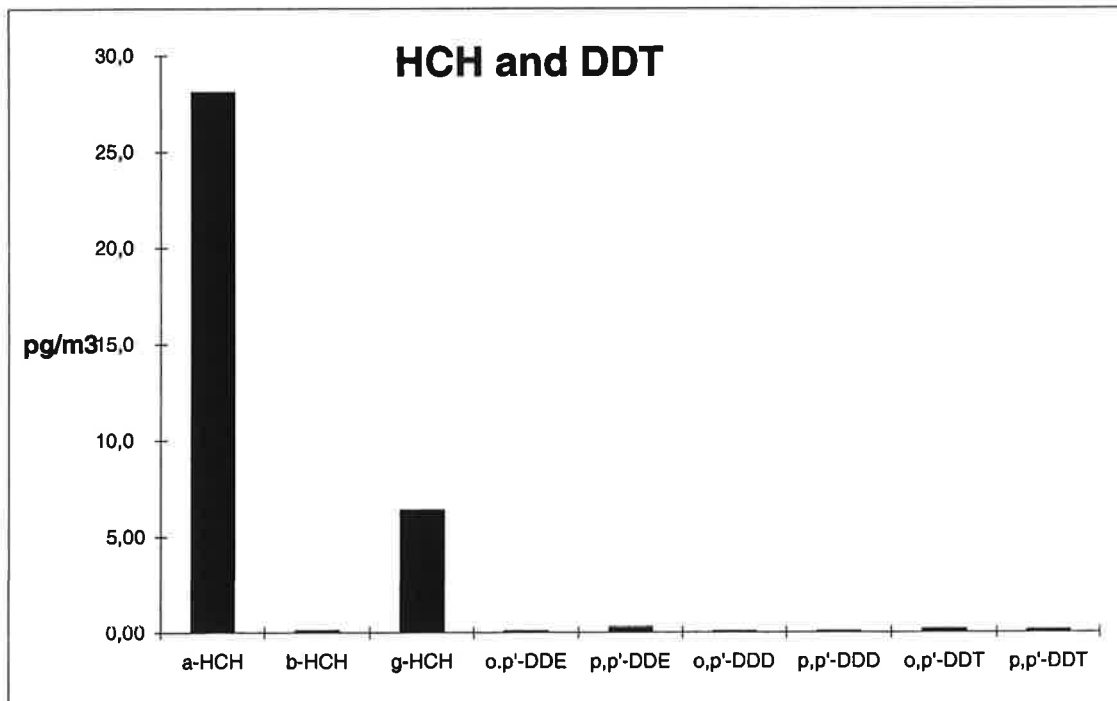


Kjeller, 14.01.04

Encl. to measuring report : O-2081
 NILU-Sample number : 03/1527
 Customer : Amap 03
 Customers sample ID : 29.9-1.10.03 0722-0757
 : 160-160
 Sample type : Luft
 Sample amount : 1171 m3
 Concentration units : pg/m3
 Data files : DH520B_DDT_30-12-2003

Compound Structure	Concentration pg/m3	Recovery %
α -HCH	28,1	52
β -HCH	0,06 b	
γ -HCH	6,35	37
o,p'-DDE	0,03	
p,p'-DDE	0,27 b	71
o,p'-DDD	< 0,01	
p,p'-DDD	0,02	
o,p'-DDT	0,12	
p,p'-DDT	0,06	89
Sum DDT	0,52	

< : Lower than detection limit at signal-to-noise 3 to 1
 i : Isotope ratio deviates more than 20 % from theoretical value
 This may be due to instrumental noise or/and chemical interference
 b : Lower than 10 times method blank
 g : Recovery is not according to NILUs quality criteria



Results of HCH and DDT Analysis

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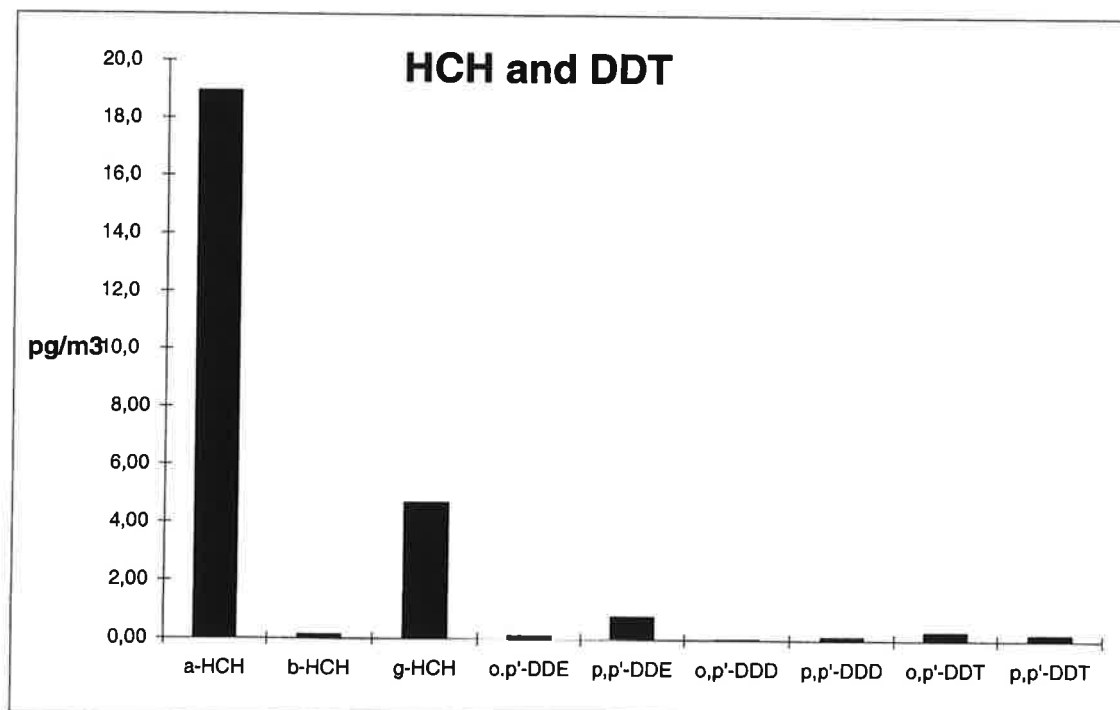


Kjeller, 25.03.04

Encl. to measuring report : O-2081
 NILU-Sample number : 03/1756
 Customer : Amap 03
 Customers sample ID : 8-10.10.03 0737-0917
 : 160-150
 Sample type : Luft
 Sample amount : 1161 m3
 Concentration units : pg/m3
 Data files : DH567b_DDT_19-03-2004

Compound Structure	Concentration pg/m3	Recovery %
α -HCH	18,9	82
β -HCH	0,11 b	
γ -HCH	4,67	
o,p'-DDE	0,09	
p,p'-DDE	0,76 b	80
o,p'-DDD	0,02 b	
p,p'-DDD	0,10 bi	
o,p'-DDT	0,27	
p,p'-DDT	0,18 b	93
Sum DDT	1,40	

< : Lower than detection limit at signal-to-noise 3 to 1
 i : Isotope ratio deviates more than 20 % from theoretical value
 This may be due to instrumental noise or/and chemical interference
 b : Lower than 10 times method blank
 g : Recovery is not according to NILUs quality criteria



Results of HCH and DDT Analysis



Kjeller, 30.04.2004

Encl. to measuring report : O-2081
 NILU-Sample number : 03/1758
 Customer : Amap 03
 Customers sample ID : 13-16.10.03 0650-0723
 : 160-145
 Sample type : Luft
 Sample amount : 1670 m3
 Concentration units : pg/m3
 Data files : VA567b_DDT_19-03-2004

Compound Structure	Concentration pg/m3	Recovery %
α -HCH	13,7	97
β -HCH	0,08 bi	
γ -HCH	2,82	
o,p'-DDE	0,04 b	107
p,p'-DDE	0,34 b	
o,p'-DDD	0,02 bi	
p,p'-DDD	0,07 bi	
o,p'-DDT	0,17	107
p,p'-DDT	0,12 b	
Sum DDT	0,77	

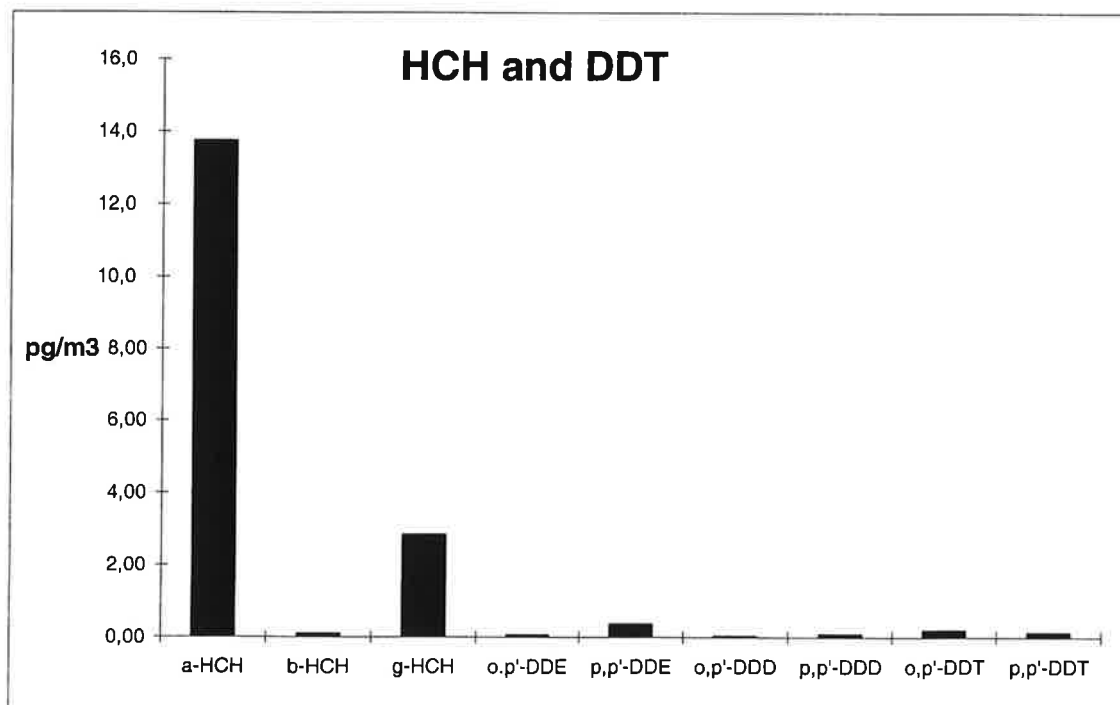
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank

g : Recovery is not according to NILUs quality criteria



Results of HCH and DDT Analysis

263

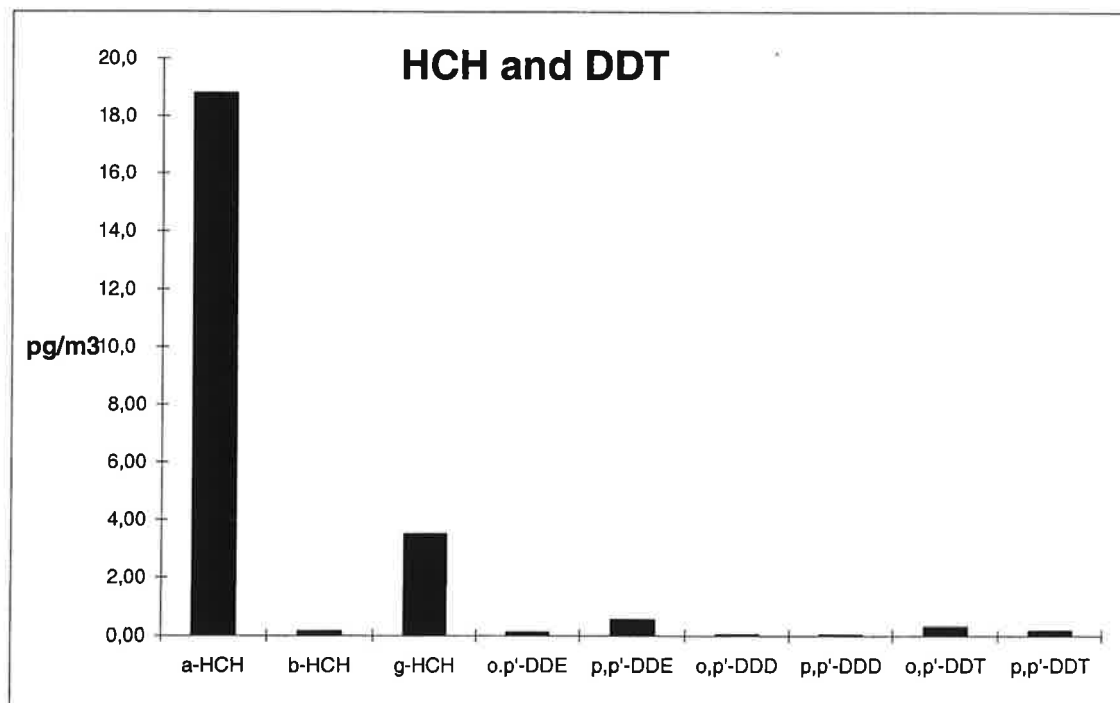


Kjeller, 22.04.04

Encl. to measuring report : O-2081
 NILU-Sample number : 03/1761
 Customer : Amap 03
 Customers sample ID : 20-22.10.03 0730-0850
 : 160-160
 Sample type : Luft
 Sample amount : 1188 m3
 Concentration units : pg/m3
 Data files : DH579gml_DDT_05-04-2004

Compound Structure	Concentration pg/m3	Recovery %
α -HCH	18,8	69
β -HCH	0,13 b	
γ -HCH	3,48	
o,p'-DDE	0,10	
p,p'-DDE	0,54 b	75
o,p'-DDD	0,03 b	
p,p'-DDD	0,03 b	
o,p'-DDT	0,32	
p,p'-DDT	0,15 b	89
Sum DDT	1,16	

< : Lower than detection limit at signal-to-noise 3 to 1
 i : Isotope ratio deviates more than 20 % from theoretical value
 This may be due to instrumental noise or/and chemical interference
 b : Lower than 10 times method blank
 g : Recovery is not according to NILUs quality criteria



Results of HCH and DDT Analysis



Kjeller, 30.04.2004

Encl. to measuring report : O-2081

NILU-Sample number : 03/1765

Customer : Amap 03

Customers sample ID : 29-31.10.03 0948-0834

: 160-163

Sample type : Luft

Sample amount : 1135 m3

Concentration units : pg/m3

Data files : DH579gml_DDT_05-04-2004

Compound Structure	Concentration pg/m3	Recovery %
α -HCH	17,1	60
β -HCH	0,35	
γ -HCH	3,71	
o,p'-DDE	0,10	
p,p'-DDE	0,99 b	76
o,p'-DDD	0,02 b	
p,p'-DDD	0,09 b	
o,p'-DDT	0,31	
p,p'-DDT	0,20 b	95
Sum DDT	1,71	

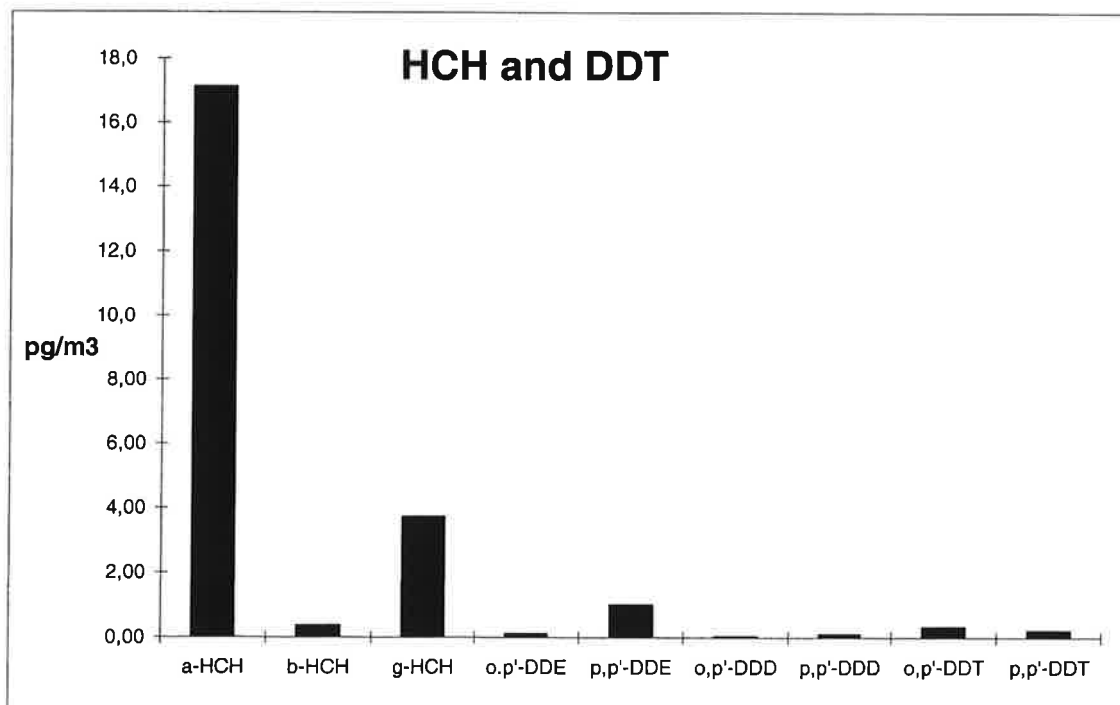
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank

g : Recovery is not according to NILUs quality criteria



Results of HCH and DDT Analysis

265

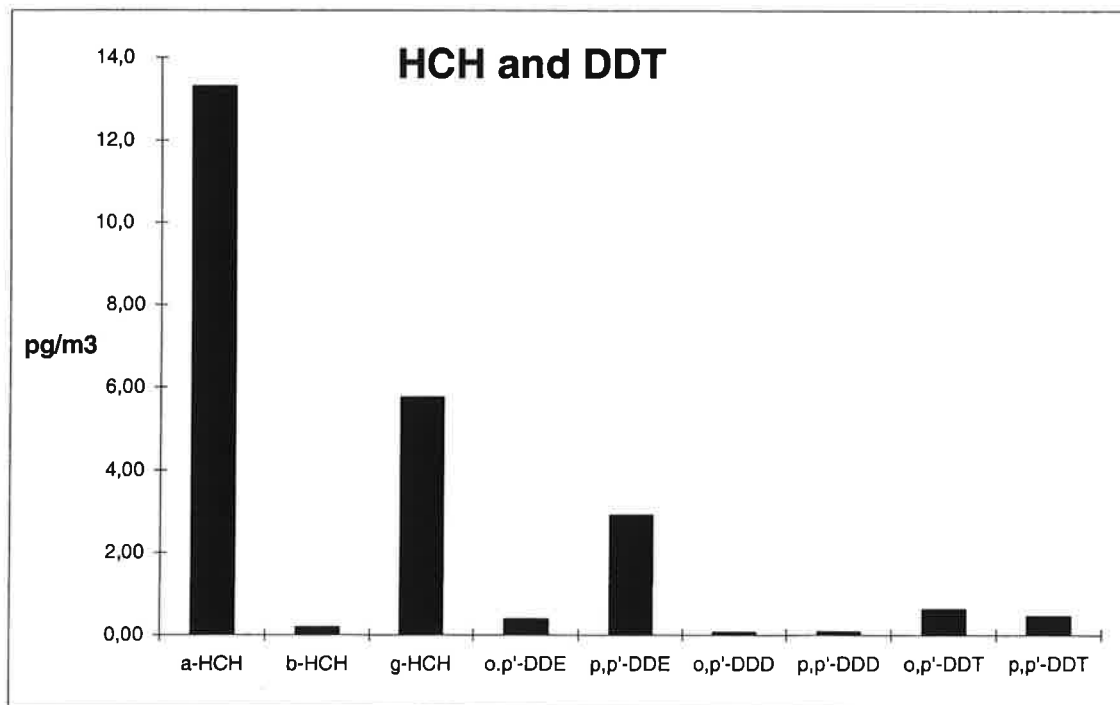


Kjeller, 22.04.04

Encl. to measuring report : O-2081
 NILU-Sample number : 03/1768
 Customer : Amap 03
 Customers sample ID : 5-7.11.03 1020-0905
 : 160-156
 Sample type : Luft
 Sample amount : 1111 m3
 Concentration units : pg/m3
 Data files : DH579gml_DDT_05-04-2004

Compound Structure	Concentration pg/m3	Recovery %
α -HCH	13,3	61
β -HCH	0,17 b	
γ -HCH	5,74	
o,p'-DDE	0,37	
p,p'-DDE	2,90	75
o,p'-DDD	0,05 b	
p,p'-DDD	0,07 b	
o,p'-DDT	0,62	
p,p'-DDT	0,45 b	78
Sum DDT	4,46	

< : Lower than detection limit at signal-to-noise 3 to 1
 i : Isotope ratio deviates more than 20 % from theoretical value
 This may be due to instrumental noise or/and chemical interference
 b : Lower than 10 times method blank
 g : Recovery is not according to NILUs quality criteria



Results of HCH and DDT Analysis



Kjeller, 22.04.04

Encl. to measuring report : O-2081

NILU-Sample number : 04/106

Customer : Amap 03

Customers sample ID : 12-14.11.03 0913-0937

: 160-161

Sample type : Luft

Sample amount : 1169 m3

Concentration units : pg/m3

Data files : DH579gml_DDT_05-04-2004

Compound Structure	Concentration pg/m3	Recovery %
α -HCH	23,7	66
β -HCH	0,52	
γ -HCH	4,42	
o,p'-DDE	0,13	
p,p'-DDE	1,37 b	80
o,p'-DDD	0,04 b	
p,p'-DDD	0,34 b	
o,p'-DDT	0,36	
p,p'-DDT	0,42 b	92
Sum DDT	2,66	

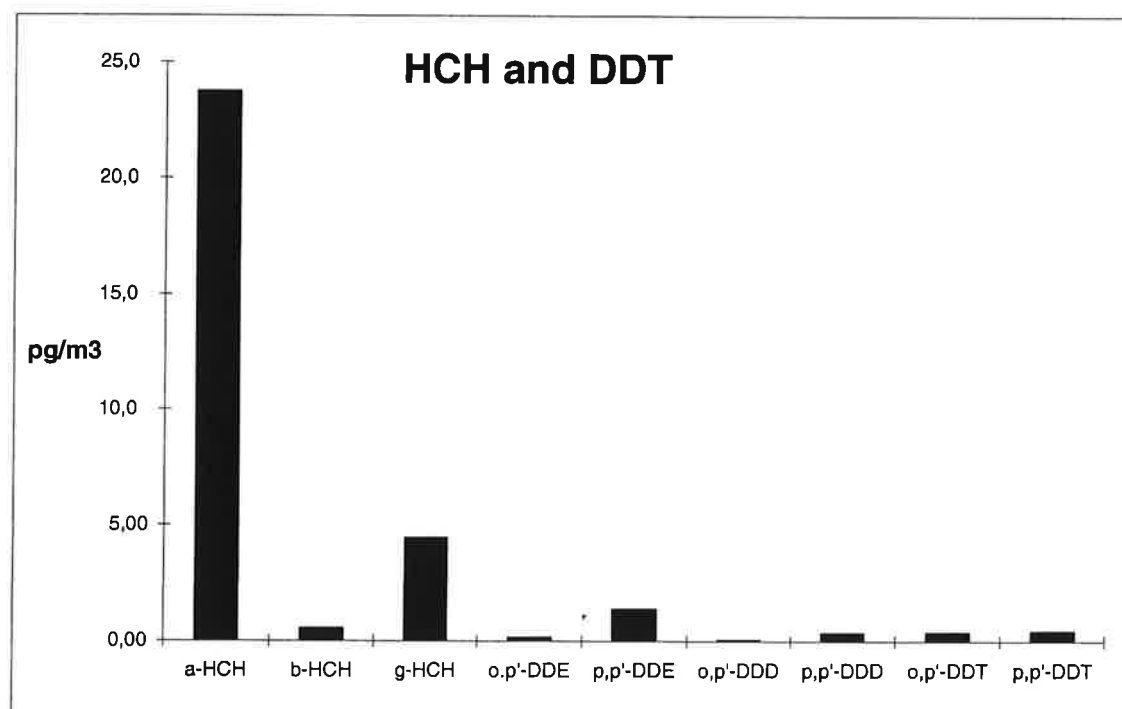
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank

g : Recovery is not according to NILUs quality criteria



Results of HCH and DDT Analysis

267

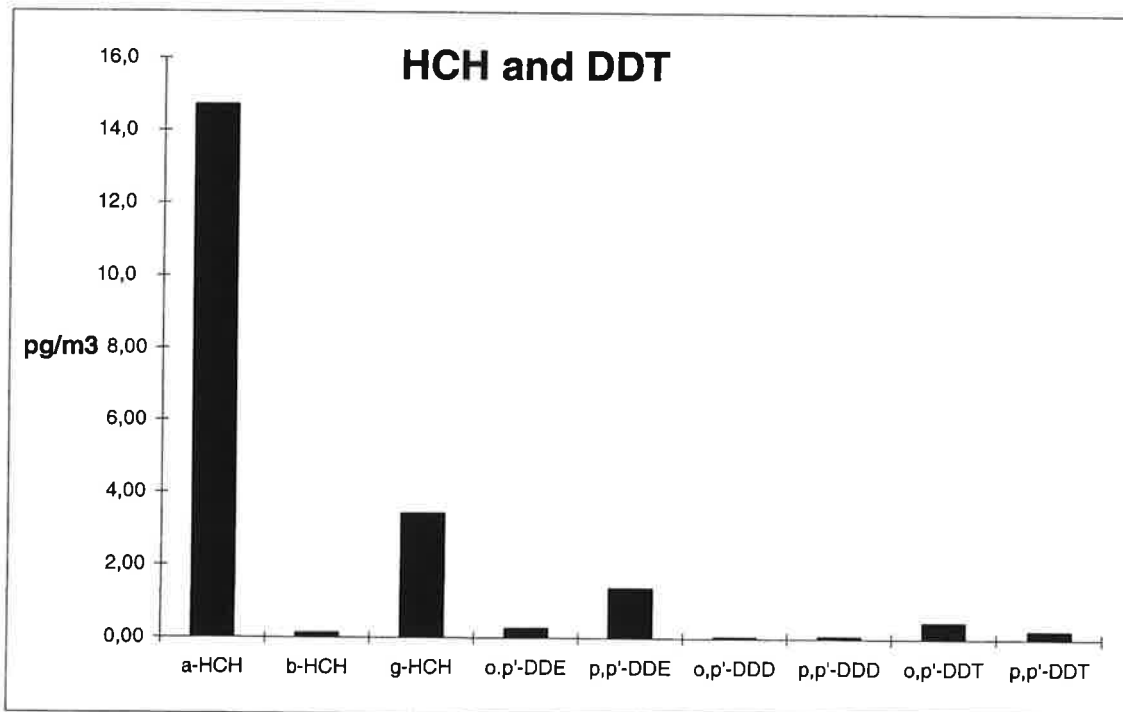


Kjeller, 22.04.04

Encl. to measuring report : O-2081
 NILU-Sample number : 04/109
 Customer : Amap 03
 Customers sample ID : 19-21.11.03 0843-0836
 : 160-154
 Sample type : Luft
 Sample amount : 1133 m3
 Concentration units : pg/m3
 Data files : DH579gml_DDT_05-04-2004

Compound Structure	Concentration pg/m3	Recovery %
α -HCH	14,7	105
β -HCH	0,10 b	
γ -HCH	3,41	
o,p'-DDE	0,25	
p,p'-DDE	1,36 b	68
o,p'-DDD	0,03 b	
p,p'-DDD	0,05 b	
o,p'-DDT	0,45	
p,p'-DDT	0,22 b	79
Sum DDT	2,35	

< : Lower than detection limit at signal-to-noise 3 to 1
 i : Isotope ratio deviates more than 20 % from theoretical value
 This may be due to instrumental noise or/and chemical interference
 b : Lower than 10 times method blank
 g : Recovery is not according to NILUs quality criteria



Results of HCH and DDT Analysis

268

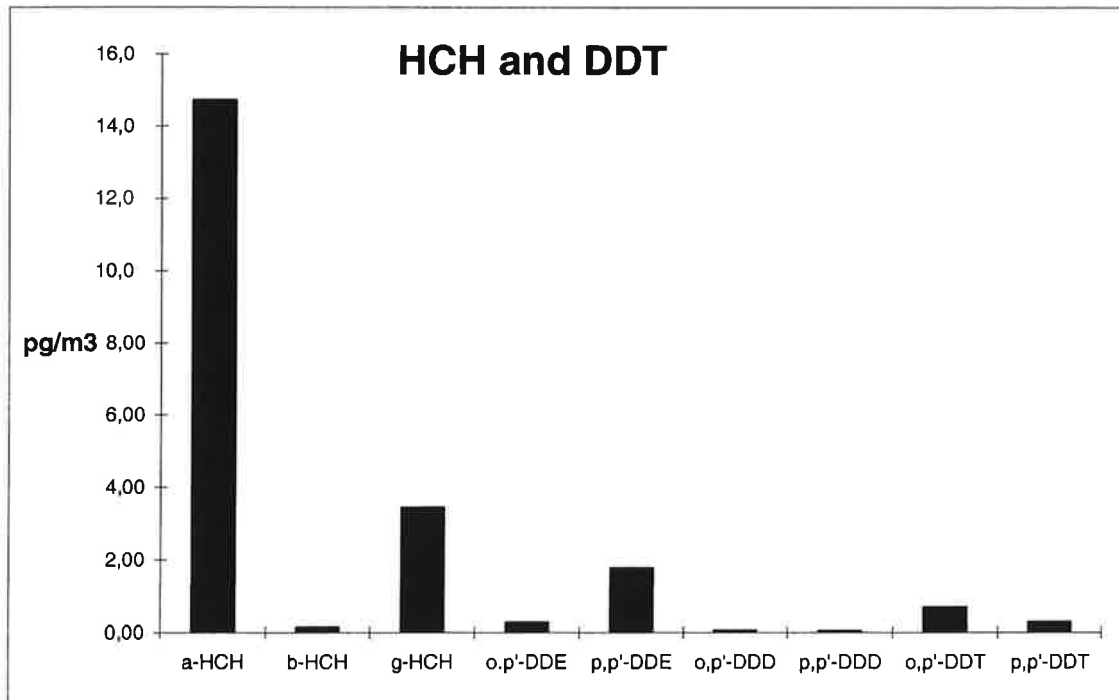


Kjeller, 22.04.04

Encl. to measuring report : O-2081
 NILU-Sample number : 04/112
 Customer : Amap 03
 Customers sample ID : 26-28.11.03 0854-0751
 : 160-158
 Sample type : Luft
 Sample amount : 1126 m3
 Concentration units : pg/m3
 Data files : DH579gml_DDT_05-04-2004

Compound Structure	Concentration pg/m3	Recovery %
α -HCH	14,7	54
β -HCH	0,14 b	
γ -HCH	3,43	
o,p'-DDE	0,28	
p,p'-DDE	1,77	79
o,p'-DDD	0,05 b	
p,p'-DDD	0,05 b	
o,p'-DDT	0,70	
p,p'-DDT	0,29 b	82
Sum DDT	3,14	

< : Lower than detection limit at signal-to-noise 3 to 1
 i : Isotope ratio deviates more than 20 % from theoretical value
 This may be due to instrumental noise or/and chemical interference
 b : Lower than 10 times method blank
 g : Recovery is not according to NILUs quality criteria



Results of HCH and DDT Analysis

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Kjeller, 22.04.04

Encl. to measuring report : O-2081

NILU-Sample number : 04/115

Customer : Amap 03

Customers sample ID : 3-5.12.03 0855-0848

: 160-170

Sample type : Luft

Sample amount : 1193 m3

Concentration units : pg/m3

Data files : DH579gml_DDT_05-04-2004

Compound Structure	Concentration pg/m3	Recovery %
α -HCH	13,3	64
β -HCH	0,06 b	
γ -HCH	1,95	
o,p'-DDE	0,11	
p,p'-DDE	0,59 b	78
o,p'-DDD	0,02 b	
p,p'-DDD	0,03 b	
o,p'-DDT	0,20 b	
p,p'-DDT	0,11 b	92
Sum DDT	1,05	

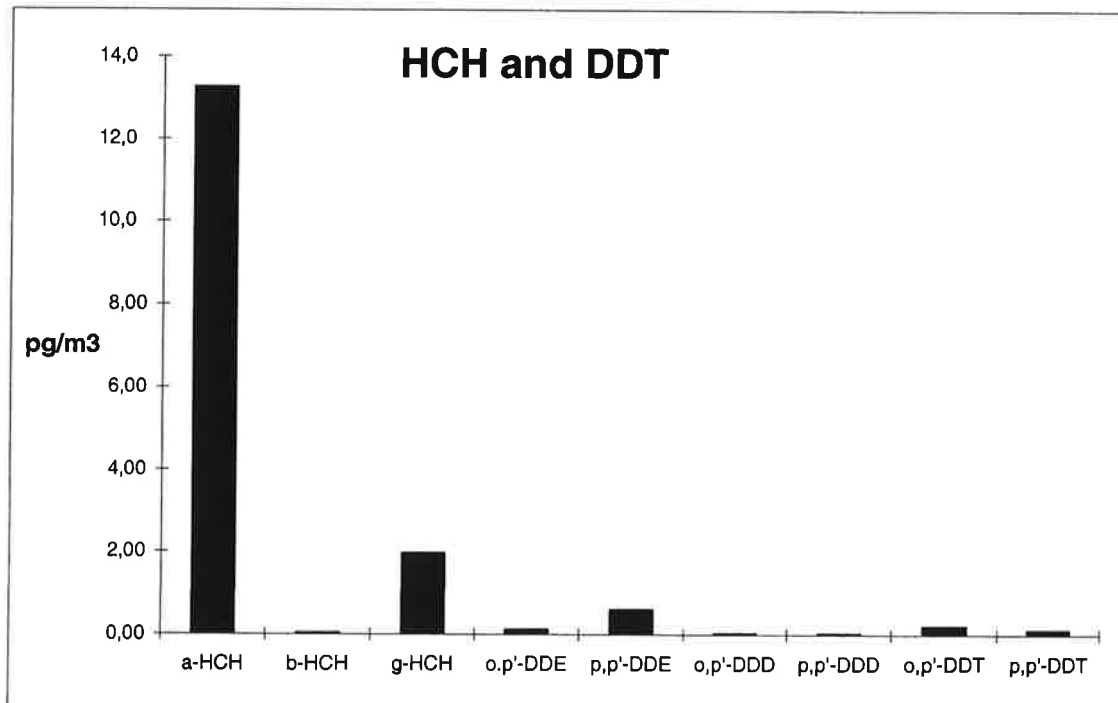
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank

g : Recovery is not according to NILUs quality criteria



Results of HCH and DDT Analysis

270

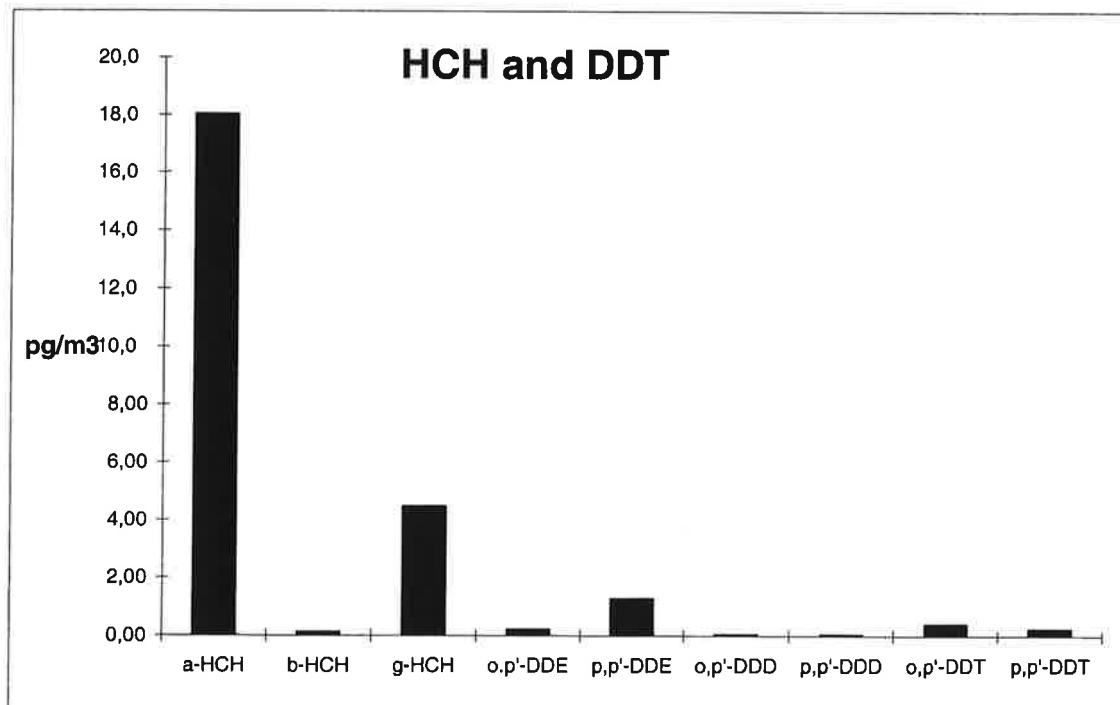


Kjeller, 22.04.04

Encl. to measuring report : O-2081
 NILU-Sample number : 04/118
 Customer : Amap 03
 Customers sample ID : 10-12.12.03 1030-0852
 : 160-150
 Sample type : Luft
 Sample amount : 1083 m3
 Concentration units : pg/m3
 Data files : DH579_DDT_05-04-2004

Compound Structure	Concentration pg/m3	Recovery %
α -HCH	18,0	70
β -HCH	0,12 b	
γ -HCH	4,47	
o,p'-DDE	0,20	
p,p'-DDE	1,25 b	73
o,p'-DDD	0,03 b	
p,p'-DDD	0,03 b	
o,p'-DDT	0,39	
p,p'-DDT	0,23 b	83
Sum DDT	2,13	

< : Lower than detection limit at signal-to-noise 3 to 1
 i : Isotope ratio deviates more than 20 % from theoretical value
 This may be due to instrumental noise or/and chemical interference
 b : Lower than 10 times method blank
 g : Recovery is not according to NILUs quality criteria



Results of HCH and DDT Analysis

271

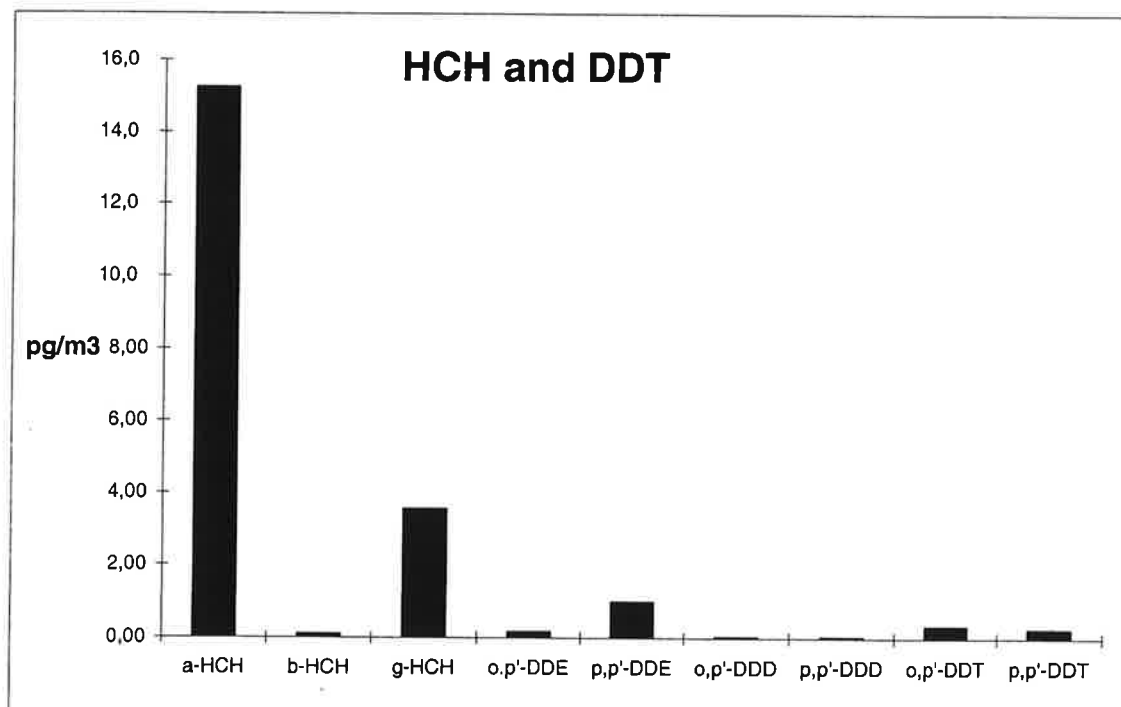


Kjeller, 02.03.04

Encl. to measuring report : O-2081
 NILU-Sample number : 04/121
 Customer : Amap 03
 Customers sample ID : 17-19.12.03 0940-0845
 : 160-160
 Sample type : Luft
 Sample amount : 1130 m3
 Concentration units : pg/m3
 Data files : DH554A_DDT_27-02-2004

Compound Structure	Concentration pg/m3	Recovery %
α -HCH	15,2	57
β -HCH	0,09 b	
γ -HCH	3,54	
o,p'-DDE	0,16	
p,p'-DDE	0,98	92
o,p'-DDD	0,03	
p,p'-DDD	0,03 i	
o,p'-DDT	0,32	
p,p'-DDT	0,23	106
Sum DDT	1,75	

< : Lower than detection limit at signal-to-noise 3 to 1
 i : Isotope ratio deviates more than 20 % from theoretical value
 This may be due to instrumental noise or/and chemical interference
 b : Lower than 10 times method blank
 g : Recovery is not according to NILUs quality criteria



Results of HCH and DDT Analysis

272

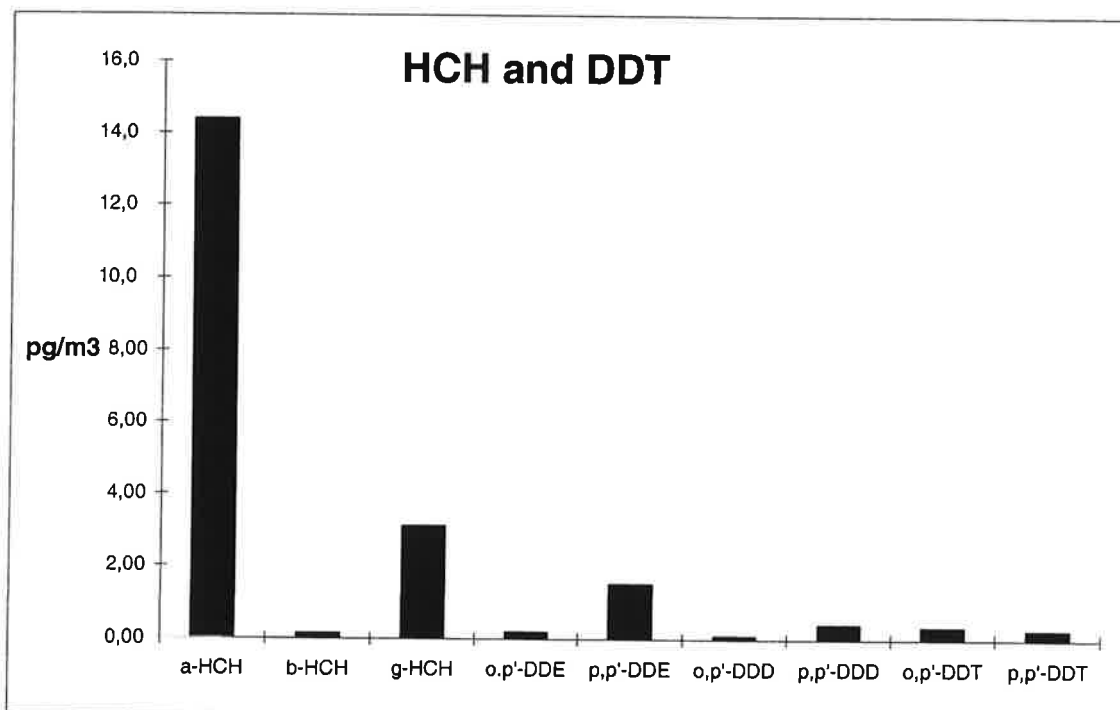
Encl. to measuring report : O-2081
 NILU-Sample number : 04/124
 Customer : Amap 03
 Customers sample ID : 24-26.12.03 0820-1106
 : 160-160
 Sample type : Luft
 Sample amount : 1224 m3
 Concentration units : pg/m3
 Data files : DH554A_DDT_27-02-2004



Kjeller, 02.03.04

Compound Structure	Concentration pg/m3	Recovery %
α -HCH	14,4	64
β -HCH	0,13	
γ -HCH	3,10	
o,p'-DDE	0,18	
p,p'-DDE	1,50	105
o,p'-DDD	0,08	
p,p'-DDD	0,40	
o,p'-DDT	0,33	
p,p'-DDT	0,25	96
Sum DDT	2,74	

< : Lower than detection limit at signal-to-noise 3 to 1
 i : Isotope ratio deviates more than 20 % from theoretical value
 This may be due to instrumental noise or/and chemical interference
 b : Lower than 10 times method blank
 g : Recovery is not according to NILUs quality criteria



Results of HCH and DDT Analysis

273

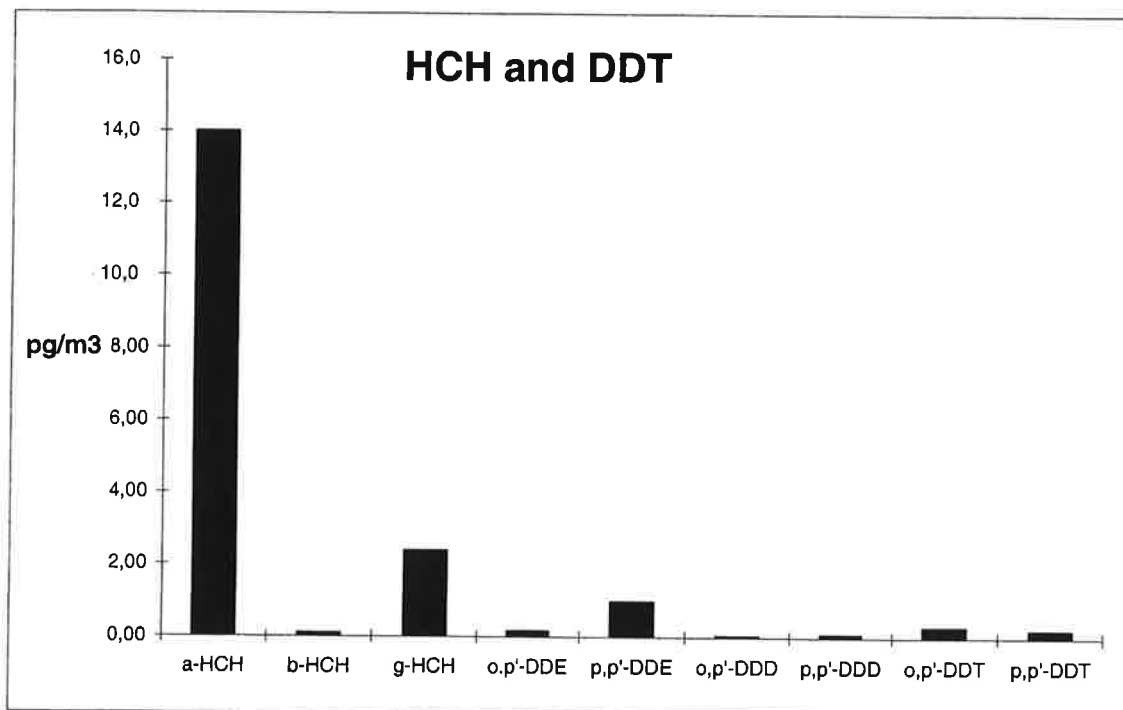


Kjeller, 02.03.04

Encl. to measuring report : O-2081
 NILU-Sample number : 04/127
 Customer : Amap 03
 Customers sample ID : 31.12.03-2.1.04 0751-0951
 : 160-153
 Sample type : Luft
 Sample amount : 1180 m3
 Concentration units : pg/m3
 Data files : DH554A_DDT_27-02-2004

Compound Structure	Concentration pg/m3	Recovery %
α -HCH	14,0	73
β -HCH	0,09 b	
γ -HCH	2,37	
o,p'-DDE	0,15	
p,p'-DDE	0,97	112
o,p'-DDD	0,03	
p,p'-DDD	0,08	
o,p'-DDT	0,31	
p,p'-DDT	0,21	91
Sum DDT	1,75	

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 This may be due to instrumental noise or/and chemical interference
 b : Lower than 10 times method blank
 g : Recovery is not according to NILUs quality criteria



Results of Pesticid Analysis



Encl. to measuring report : O-2081
 NILU-Sample number : 03/44
 Customer : Amap 03
 Customers sample ID : 30.12-1-1-03 0913-1020
 : 160-155
 Sample type : Luft
 Sample amount : 1166 m3
 Concentration units : pg/m3
 Data files : PA_6691.D

Kjeller, 12.09.03

Compound		Concentration	Recovery
Structure		pg/m3	%
trans-Chlordane	*	0,35	70
cis-Chlordane	*	0,62	
trans-Nonachlor	*	0,49	
cis-Nonachlor	*	0,02 b	

* : Based on internal standard ^{13}C -PCB-118.

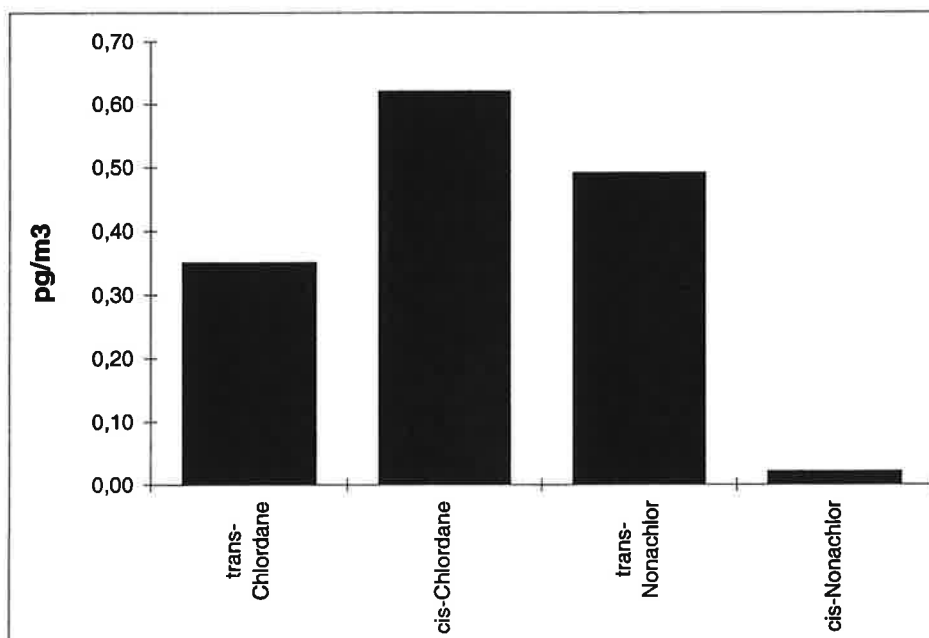
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value.

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank.

g : Recovery is not according to NILU's quality criteria



Results of Pesticid Analysis



Encl. to measuring report : O-2081
NILU-Sample number : 03/296
Customer : Amap 03
Customers sample ID : 1-3.1.03 1025-1006
: 160-160
Sample type : Luft
Sample amount : 1150 m3
Concentration units : pg/m3
Data files : PA_6838.D

Kjeller, 05.08.03

Compound	Concentration	Recovery
Structure	pg/m3	%
trans-Chlordane *	0,22	91
cis-Chlordane *	0,40 b	
trans-Nonachlor *	0,27	
cis-Nonachlor *	0,02	

* : Based on internal standard ^{13}C -PCB-118.

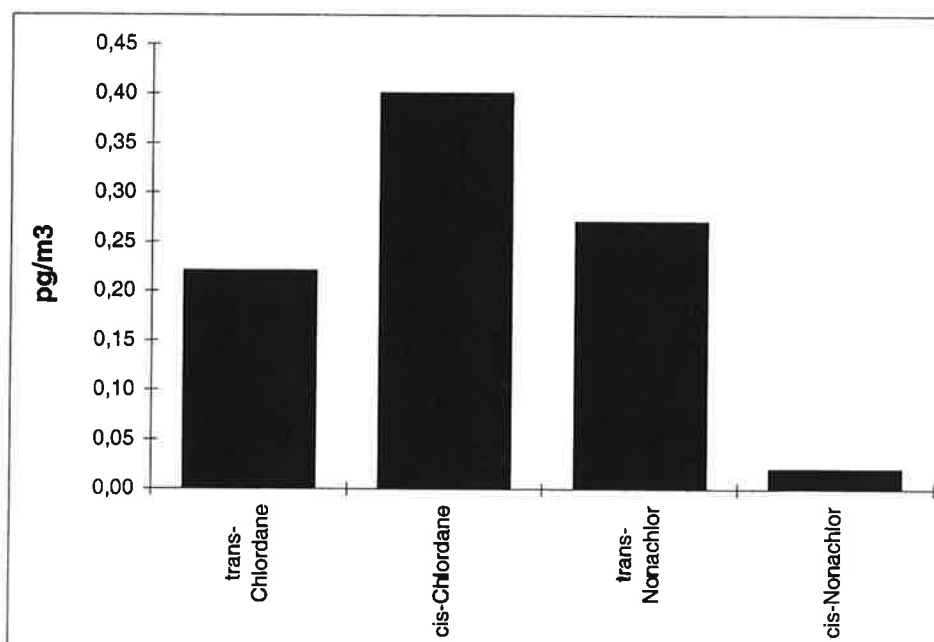
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value.

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank.

g : Recovery is not according to NILU's quality criteria



Results of Pesticid Analysis



Encl. to measuring report : O-2081
 NILU-Sample number : 03/301
 Customer : Amap 03
 Customers sample ID : 13-15.1.03 0920-0830
 : 160-150
 Sample type : Luft
 Sample amount : 1102 m3
 Concentration units : pg/m3
 Data files : PA_6840.D

Kjeller, 05.08.03

Compound	Concentration	Recovery
Structure	pg/m3	%
trans-Chlordane *	0,17	107
cis-Chlordane *	0,29 b	
trans-Nonachlor *	0,21	
cis-Nonachlor *	0,02	

* : Based on internal standard ¹³C-PCB-118.

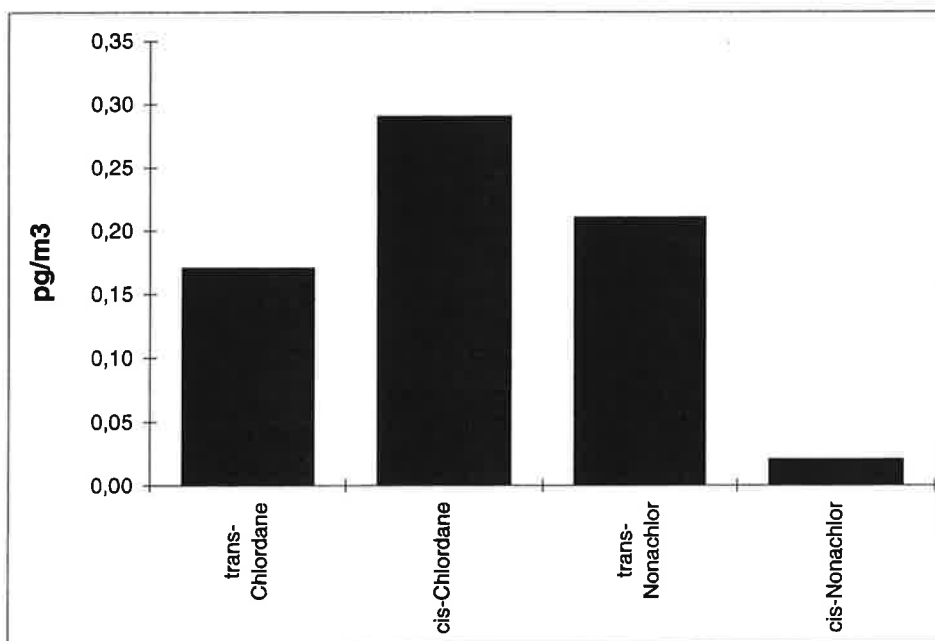
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This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank.

g : Recovery is not according to NILU's quality criteria





Results of Pesticid Analysis

Encl. to measuring report : O-2081
 NILU-Sample number : 03/304
 Customer : Amap 03
 Customers sample ID : 20-22.1.03 0803-0908
 : 160-150
 Sample type : Luft
 Sample amount : 1146 m3
 Concentration units : pg/m3
 Data files : PA_6842.D

Kjeller, 07.08.03

Compound		Concentration	Recovery
Structure		pg/m3	%
trans-Chlordane	*	0,22	91
cis-Chlordane	*	0,46 b	
trans-Nonachlor	*	0,41	
cis-Nonachlor	*	0,02	

* : Based on internal standard ^{13}C -PCB-118.

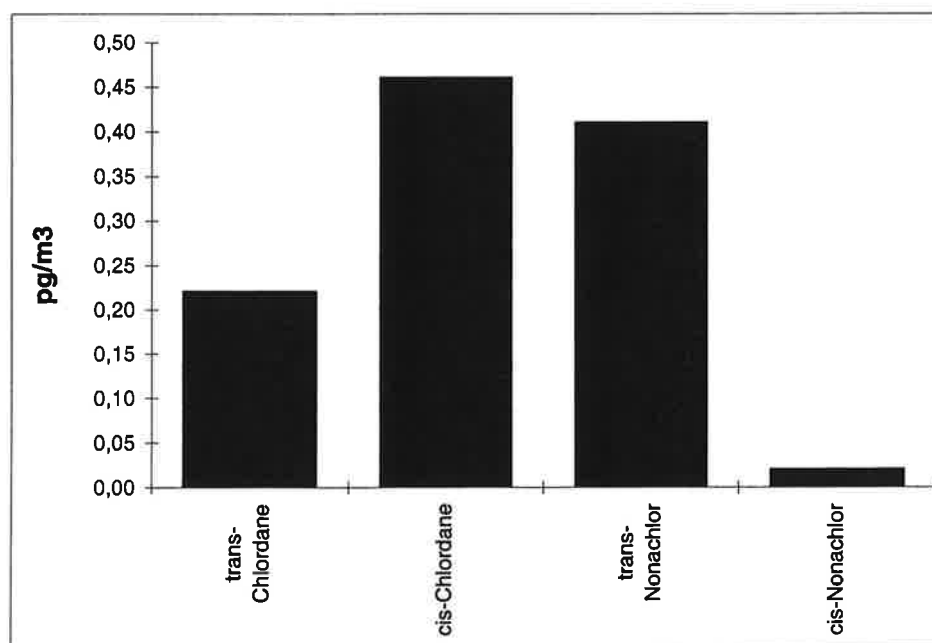
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value.

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank.

g : Recovery is not according to NILU's quality criteria



Results of Pesticid Analysis



Encl. to measuring report : O-2081
 NILU-Sample number : 03/308
 Customer : Amap 03
 Customers sample ID : 29-31.1.03 0828-0814
 : 160-160
 Sample type : Luft
 Sample amount : 1152 m3
 Concentration units : pg/m3
 Data files : PA_6843.D

Kjeller, 05.08.03

Compound	Concentration	Recovery
Structure	pg/m3	%
trans-Chlordane *	0,24	85
cis-Chlordane *	0,39 b	
trans-Nonachlor *	0,26	
cis-Nonachlor *	0,02	

* : Based on internal standard ^{13}C -PCB-118.

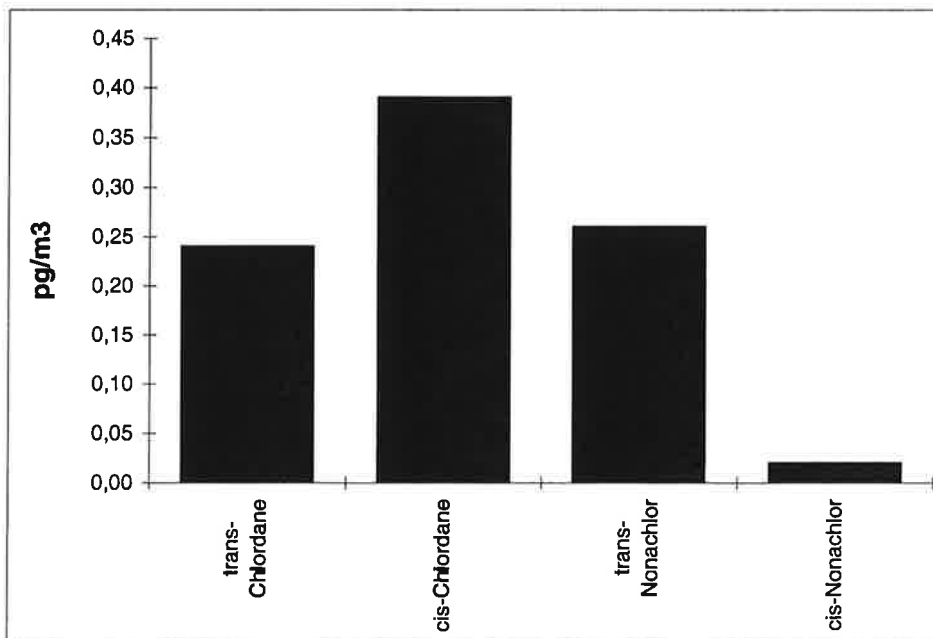
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value.

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank.

g : Recovery is not according to NILU's quality criteria





Results of Pesticid Analysis

Encl. to measuring report : O-2081
 NILU-Sample number : 03/310
 Customer : Amap 03
 Customers sample ID : 3-5.2.03 0837-0850
 : 160-160
 Sample type : Luft
 Sample amount : 1162 m3
 Concentration units : pg/m3
 Data files : PA_6844.D

Kjeller, 05.08.03

Compound	Concentration	Recovery
Structure	pg/m3	%
trans-Chlordane *	0,44	81
cis-Chlordane *	0,77	
trans-Nonachlor *	0,65	
cis-Nonachlor *	0,03	

* : Based on internal standard ^{13}C -PCB-118.

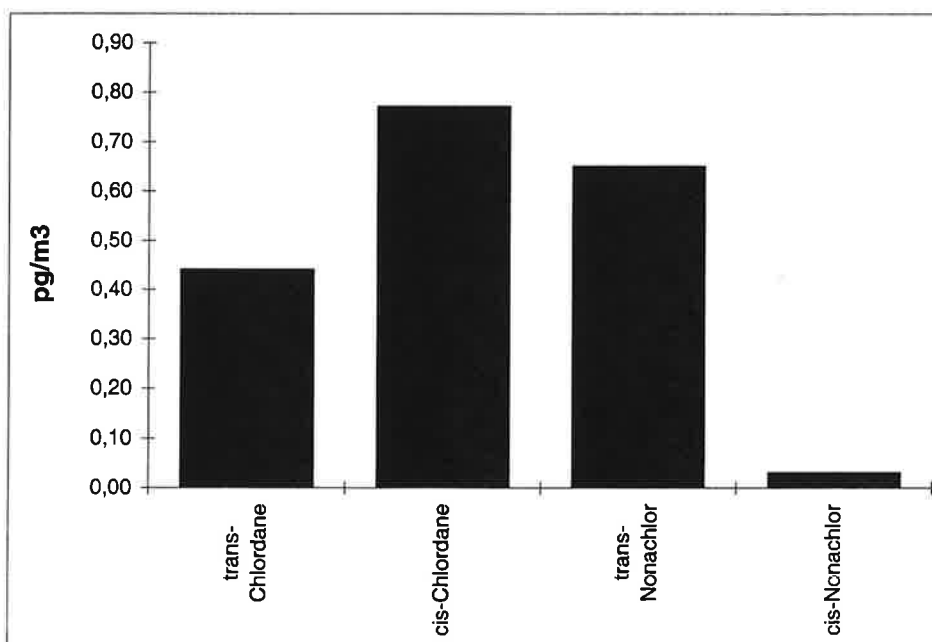
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value.

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank.

g : Recovery is not according to NILU's quality criteria



Results of Pesticid Analysis



Encl. to measuring report : O-2081
 NILU-Sample number : 03/313
 Customer : Amap 03
 Customers sample ID : 10-12.2.03 0954-0833
 : 160-160
 Sample type : Luft
 Sample amount : 1125 m3
 Concentration units : pg/m3
 Data files : PA_6845.D

Kjeller, 05.08.03

Compound		Concentration	Recovery
Structure		pg/m3	%
trans-Chlordane	*	0,42	75
cis-Chlordane	*	0,64 b	
trans-Nonachlor	*	0,49	
cis-Nonachlor	*	0,04	

* : Based on internal standard ^{13}C -PCB-118.

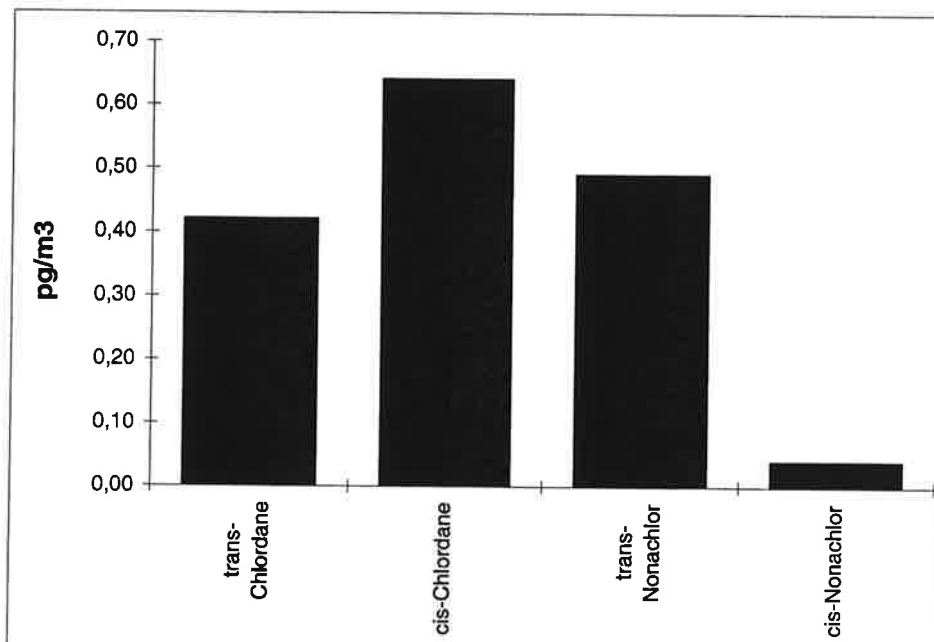
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value.

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank.

g : Recovery is not according to NILU's quality criteria





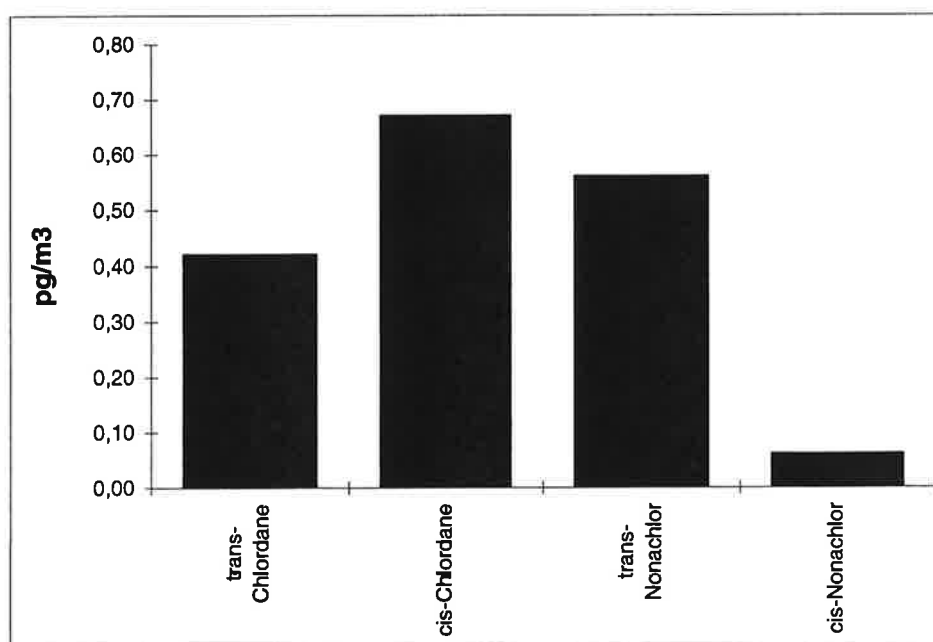
Results of Pesticid Analysis

Encl. to measuring report : O-2081
 NILU-Sample number : 03/315
 Customer : Amap 03
 Customers sample ID : 14-16.2.03 0948-1028
 : 160-180
 Sample type : Luft
 Sample amount : 1220 m3
 Concentration units : pg/m3
 Data files : PA_6918.D

Kjeller, 29.08.03

Compound		Concentration	Recovery
Structure		pg/m3	%
trans-Chlordane	*	0,42	79
cis-Chlordane	*	0,67	
trans-Nonachlor	*	0,56	
cis-Nonachlor	*	0,06	

- * : Based on internal standard ^{13}C -PCB-118.
- < : Lower than detection limit at signal-to-noise 3 to 1
- i : Isotope ratio deviates more than 20 % from theoretical value.
This may be due to instrumental noise or/and chemical interference
- b : Lower than 10 times method blank.
- g : Recovery is not according to NILU's quality criteria



Results of Pesticid Analysis



Encl. to measuring report : O-2081
 NILU-Sample number : 03/320
 Customer : Amap 03
 Customers sample ID : 26-28.2.03 0823-0853
 : 160-173
 Sample type : Luft
 Sample amount : 1249 m3
 Concentration units : pg/m3
 Data files : PA_6919.D

Kjeller, 29.08.03

Compound		Concentration	Recovery
Structure		pg/m3	%
trans-Chlordane	*	0,25	74
cis-Chlordane	*	0,41 b	
trans-Nonachlor	*	0,36	
cis-Nonachlor	*	0,04	

* : Based on internal standard ^{13}C -PCB-118.

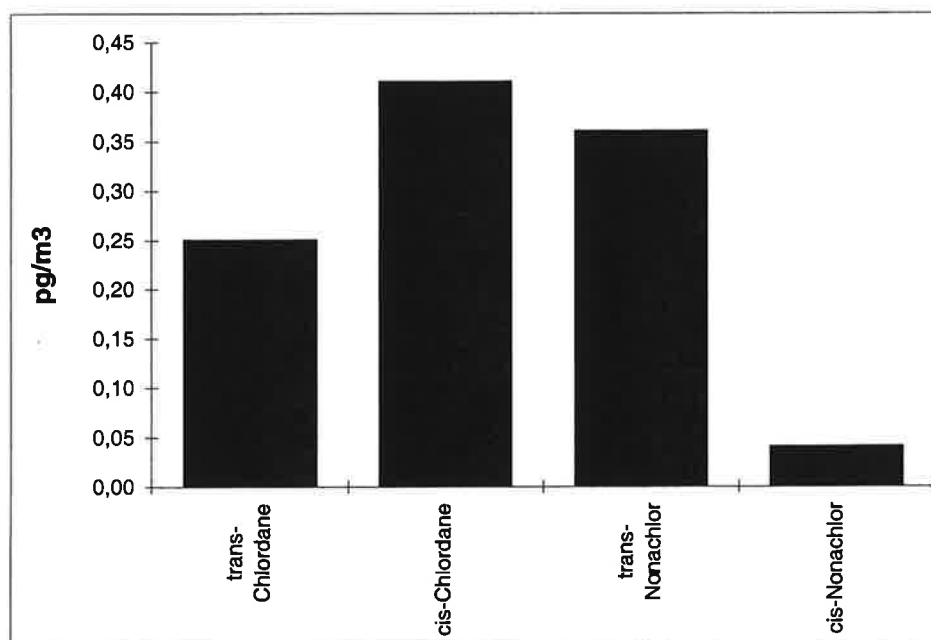
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value.

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank.

g : Recovery is not according to NILU's quality criteria





Results of Pesticid Analysis

Encl. to measuring report : O-2081
 NILU-Sample number : 03/463
 Customer : Amap 03
 Customers sample ID : 3-5.3.03 0805-0708
 : 160-162
 Sample type : Luft
 Sample amount : 1140 m3
 Concentration units : pg/m3
 Data files : PA_6989.D

Kjeller, 05.08.03

Compound	Concentration	Recovery
Structure	pg/m3	%
trans-Chlordane *	0,43	78
cis-Chlordane *	0,66	
trans-Nonachlor *	0,66	
cis-Nonachlor *	0,04	

* : Based on internal standard ^{13}C -PCB-118.

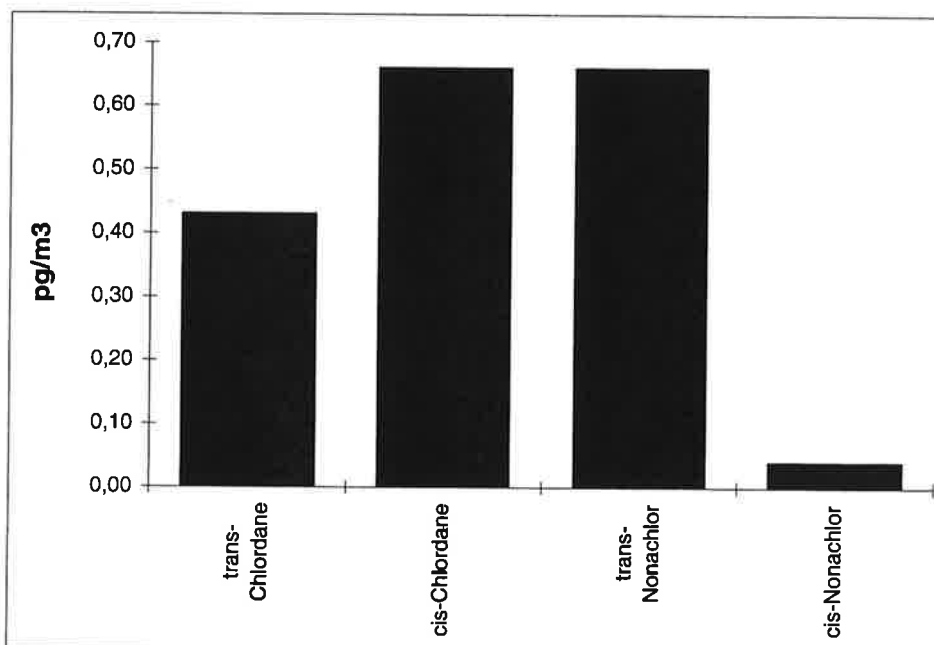
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value.

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank.

g : Recovery is not according to NILU's quality criteria



Results of Pesticid Analysis



Encl. to measuring report : O-2081
 NILU-Sample number : 03/466
 Customer : Amap 03
 Customers sample ID : 10-12.3.03 0840-0829
 : 160-163
 Sample type : Luft
 Sample amount : 1159 m3
 Concentration units : pg/m3
 Data files : PA_6990.D

Kjeller, 05.08.03

Compound		Concentration	Recovery
Structure		pg/m3	%
trans-Chlordane	*	0,21	76
cis-Chlordane	*	0,40 b	
trans-Nonachlor	*	0,29	
cis-Nonachlor	*	0,01 i	

* : Based on internal standard ^{13}C -PCB-118.

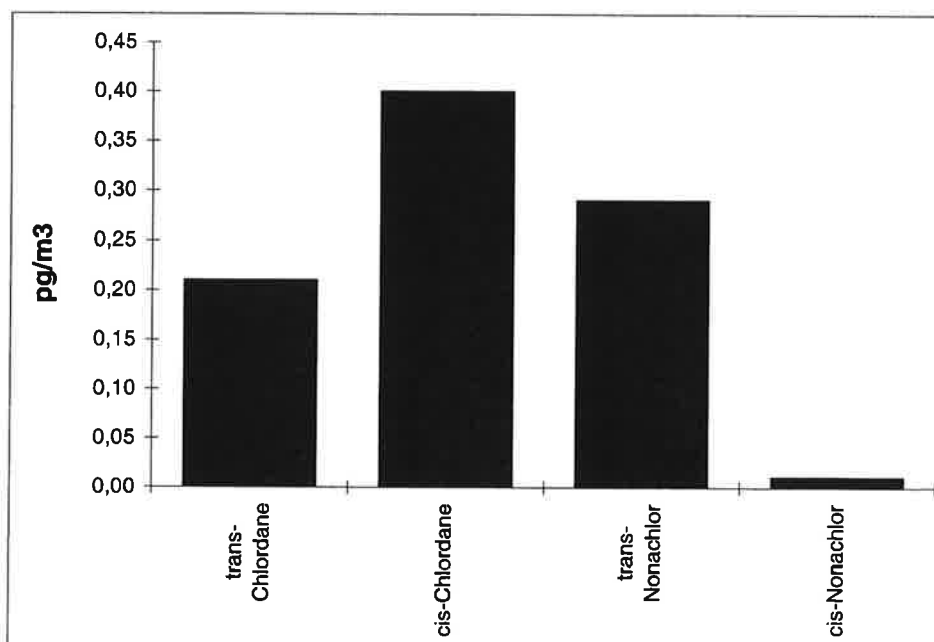
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value.

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank.

g : Recovery is not according to NILU's quality criteria





Results of Pesticid Analysis

Encl. to measuring report : O-2081
 NILU-Sample number : 03/469
 Customer : Amap 03
 Customers sample ID : 17-19.3.03 1005-0911
 : 160-159
 Sample type : Luft
 Sample amount : 1133 m3
 Concentration units : pg/m3
 Data files : PA_6992.D

Kjeller, 05.08.03

Compound		Concentration	Recovery
Structure		pg/m3	%
trans-Chlordane	*	0,32	74
cis-Chlordane	*	0,58 b	
trans-Nonachlor	*	0,49	
cis-Nonachlor	*	0,04 i	

* : Based on internal standard ^{13}C -PCB-118.

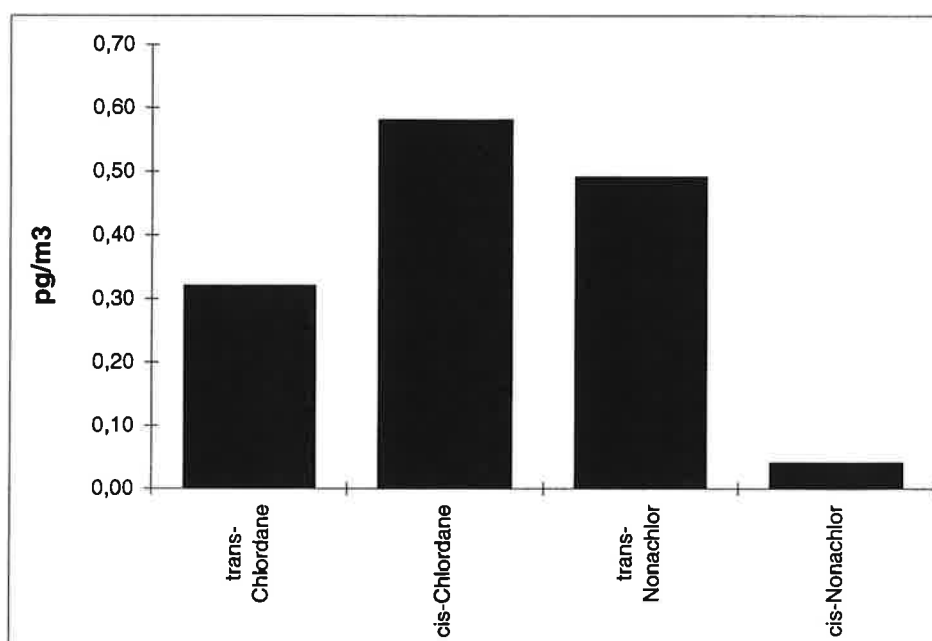
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value.

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank.

g : Recovery is not according to NILU's quality criteria



Results of Pesticid Analysis

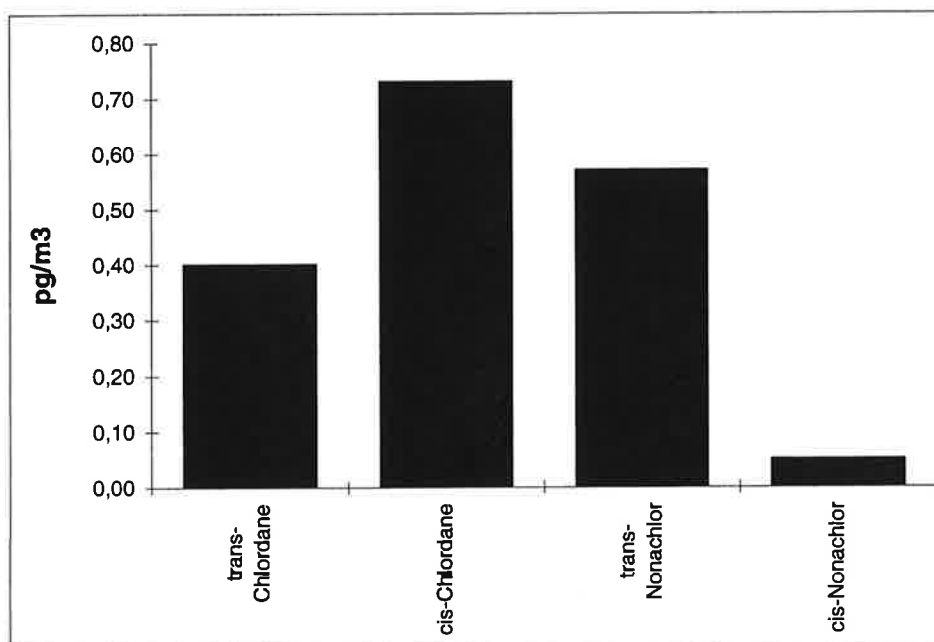


Encl. to measuring report : O-2081
 NILU-Sample number : 03/473
 Customer : Amap 03
 Customers sample ID : 26-28.3.03 1258-0914
 : 160-162
 Sample type : Luft
 Sample amount : 1058 m3
 Concentration units : pg/m3
 Data files : PA_6993.D

Kjeller, 05.08.03

Compound		Concentration	Recovery
Structure		pg/m3	%
trans-Chlordane	*	0,40	77
cis-Chlordane	*	0,73	
trans-Nonachlor	*	0,57	
cis-Nonachlor	*	0,05	

- * : Based on internal standard ^{13}C -PCB-118.
- < : Lower than detection limit at signal-to-noise 3 to 1
- i : Isotope ratio deviates more than 20 % from theoretical value.
This may be due to instrumental noise or/and chemical interference
- b : Lower than 10 times method blank.
- g : Recovery is not according to NILU's quality criteria





Results of Pesticid Analysis

Encl. to measuring report : O-2081
 NILU-Sample number : 03/476
 Customer : Amap 03
 Customers sample ID : 2-4.4.03 0853-0737
 : 160-162
 Sample type : Luft
 Sample amount : 1096 m3
 Concentration units : pg/m3
 Data files : PA_6994.D

Kjeller, 05.08.03

Compound		Concentration	Recovery
Structure		pg/m3	%
trans-Chlordane	*	0,28	79
cis-Chlordane	*	0,55 i,b	
trans-Nonachlor	*	0,49	
cis-Nonachlor	*	0,07	

* : Based on internal standard ^{13}C -PCB-118.

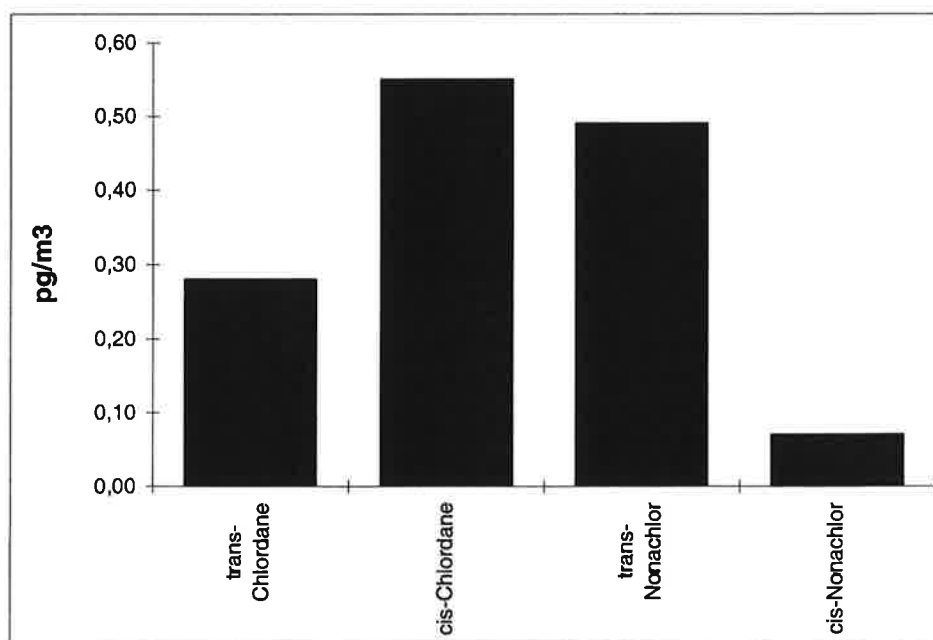
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value.

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank.

g : Recovery is not according to NILU's quality criteria



Results of Pesticid Analysis



Encl. to measuring report : O-2081
 NILU-Sample number : 03/478
 Customer : Amap 03
 Customers sample ID : 7-9.4.03 0734-0813
 : 160-160
 Sample type : Luft
 Sample amount : 1174 m3
 Concentration units : pg/m3
 Data files : PA_6995.D

Kjeller, 05.08.03

Compound		Concentration	Recovery
Structure		pg/m3	%
trans-Chlordane	*	0,46	73
cis-Chlordane	*	0,71	
trans-Nonachlor	*	0,70	
cis-Nonachlor	*	0,05	

* : Based on internal standard ^{13}C -PCB-118.

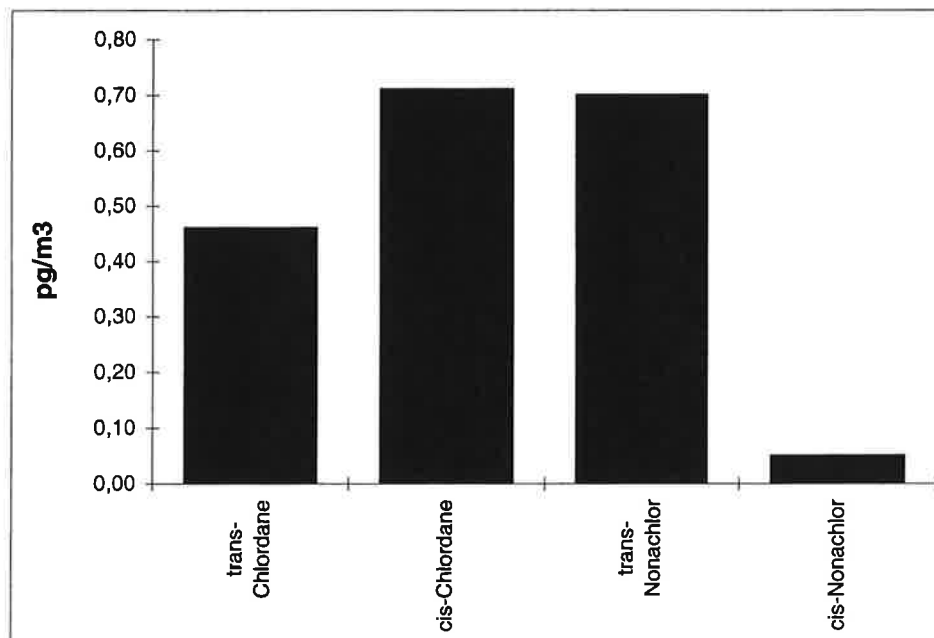
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value.

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank.

g : Recovery is not according to NILU's quality criteria





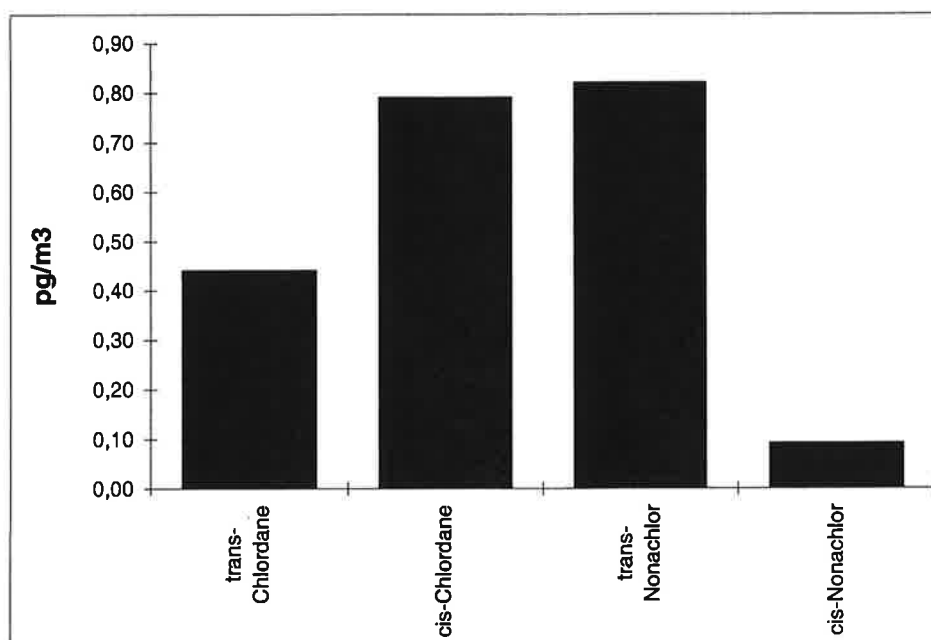
Results of Pesticid Analysis

Encl. to measuring report : O-2081
 NILU-Sample number : 03/481
 Customer : Amap 03
 Customers sample ID : 14-16.4.03 0928-0733
 : 160-146
 Sample type : Luft
 Sample amount : 1063 m3
 Concentration units : pg/m3
 Data files : PA_6996.D

Kjeller, 05.08.03

Compound		Concentration	Recovery
Structure		pg/m3	%
trans-Chlordane	*	0,44	81
cis-Chlordane	*	0,79	
trans-Nonachlor	*	0,82	
cis-Nonachlor	*	0,09	

* : Based on internal standard ^{13}C -PCB-118.
 < : Lower than detection limit at signal-to-noise 3 to 1
 i : Isotope ratio deviates more than 20 % from theoretical value.
 This may be due to instrumental noise or/and chemical interference
 b : Lower than 10 times method blank.
 g : Recovery is not according to NILU's quality criteria



Results of Pesticid Analysis



Encl. to measuring report : O-2081
 NILU-Sample number : 03/834
 Customer : Amap 03
 Customers sample ID : 18-22.4.03 1027-0748
 : 160-166
 Sample type : Luft
 Sample amount : 2298 m3
 Concentration units : pg/m3
 Data files : PA_7153.D

Kjeller, 01.09.03

Compound	Concentration	Recovery
Structure	pg/m3	%
trans-Chlordane *	0,27	89
cis-Chlordane *	0,56	
trans-Nonachlor *	0,52	
cis-Nonachlor *	0,04	

* : Based on internal standard ^{13}C -PCB-118.

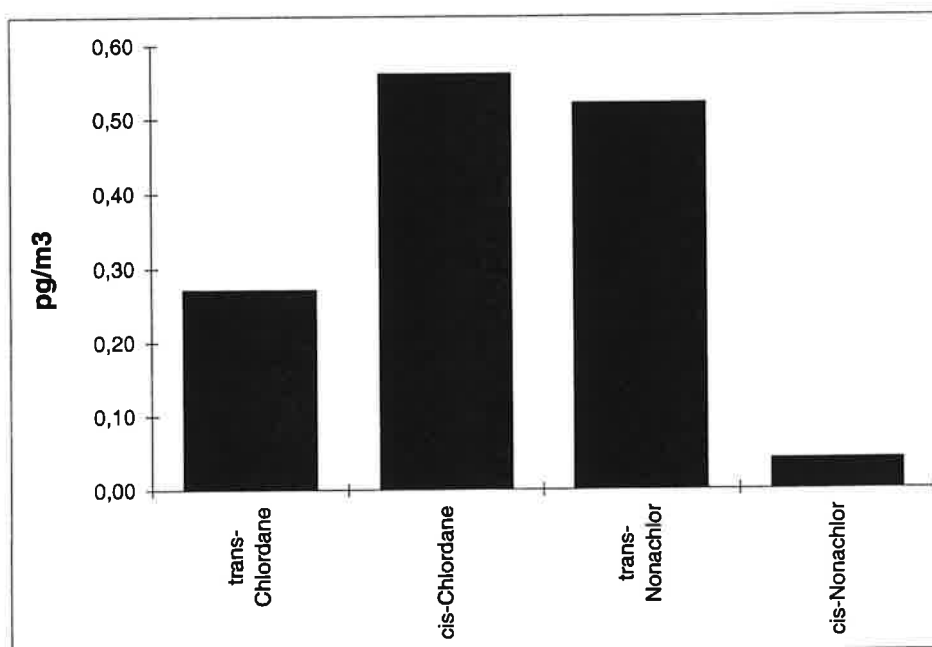
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value.

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank.

g : Recovery is not according to NILU's quality criteria





Results of Pesticid Analysis

Encl. to measuring report : O-2081
 NILU-Sample number : 03/836
 Customer : Amap 03
 Customers sample ID : 25-27.4.03 0720-0931
 : 160-159
 Sample type : Luft
 Sample amount : 1207 m3
 Concentration units : pg/m3
 Data files : PA_7154.D

Kjeller, 01.09.03

Compound	Concentration	Recovery
Structure	pg/m3	%
trans-Chlordane *	0,21	82
cis-Chlordane *	0,56 b	
trans-Nonachlor *	0,48	
cis-Nonachlor *	0,03	

* : Based on internal standard ^{13}C -PCB-118.

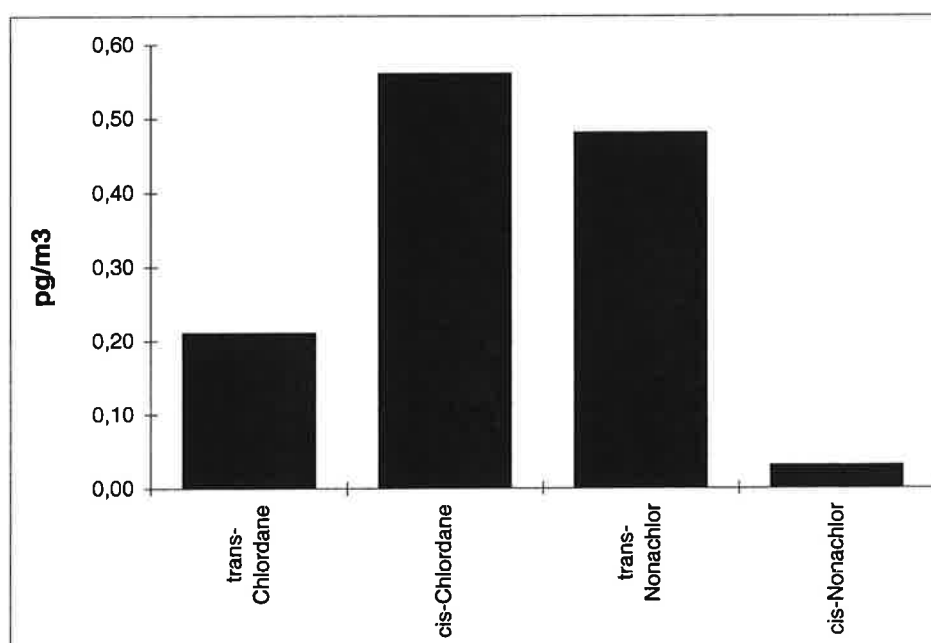
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value.

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank.

g : Recovery is not according to NILU's quality criteria



Results of Pesticid Analysis

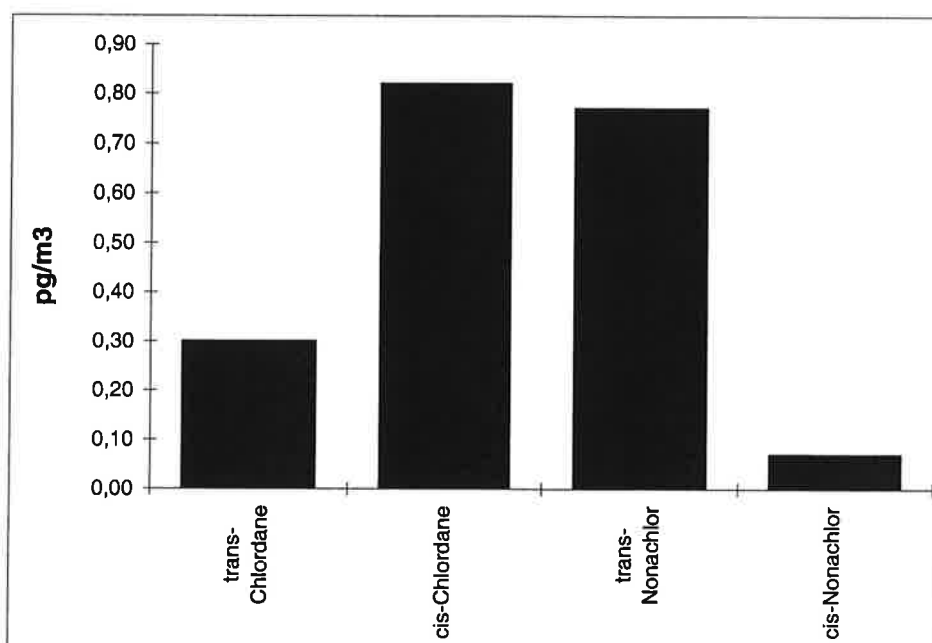


Encl. to measuring report : O-2081
 NILU-Sample number : 03/838
 Customer : Amap 03
 Customers sample ID : 30.4-2.5.03 0748-0704
 : 160-162
 Sample type : Luft
 Sample amount : 1145 m3
 Concentration units : pg/m3
 Data files : PA_7155.D

Kjeller, 01.09.03

Compound	Concentration	Recovery
Structure	pg/m3	%
trans-Chlordane *	0,30	95
cis-Chlordane *	0,82	
trans-Nonachlor *	0,77	
cis-Nonachlor *	0,07	

* : Based on internal standard ^{13}C -PCB-118.
 < : Lower than detection limit at signal-to-noise 3 to 1
 i : Isotope ratio deviates more than 20 % from theoretical value.
 This may be due to instrumental noise or/and chemical interference
 b : Lower than 10 times method blank.
 g : Recovery is not according to NILU's quality criteria





Results of Pesticid Analysis

Encl. to measuring report : O-2081
 NILU-Sample number : 03/840
 Customer : Amap 03
 Customers sample ID : 5-7.5.03 0752-0658
 : 160-160
 Sample type : Luft
 Sample amount : 1130 m3
 Concentration units : pg/m3
 Data files : PA_7156.D

Kjeller, 01.09.03

Compound	Concentration	Recovery
Structure	pg/m3	%
trans-Chlordane *	0,34	83
cis-Chlordane *	0,92	
trans-Nonachlor *	0,87	
cis-Nonachlor *	0,06	

* : Based on internal standard ¹³C-PCB-118.

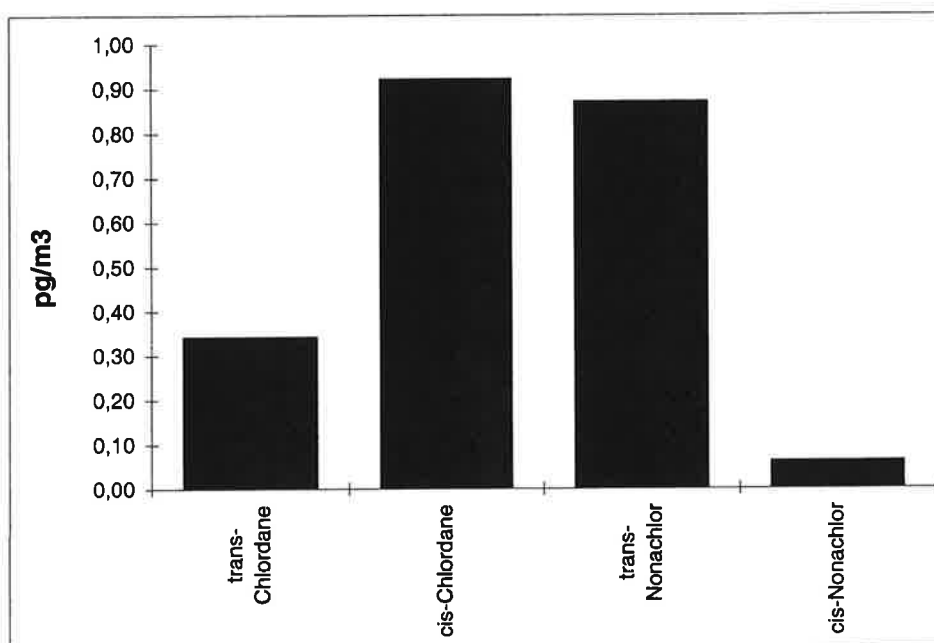
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value.

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank.

g : Recovery is not according to NILU's quality criteria



Results of Pesticid Analysis



Encl. to measuring report : O-2081
 NILU-Sample number : 03/843
 Customer : Amap 03
 Customers sample ID : 12-14.5.03 0732-0901
 : 160-150
 Sample type : Luft
 Sample amount : 1156 m3
 Concentration units : pg/m3
 Data files : PA_7157.D

Kjeller, 01.09.03

Compound	Concentration	Recovery
Structure	pg/m3	%
trans-Chlordane *	0,27	81
cis-Chlordane *	0,86	
trans-Nonachlor *	0,80	
cis-Nonachlor *	0,11	

* : Based on internal standard ^{13}C -PCB-118.

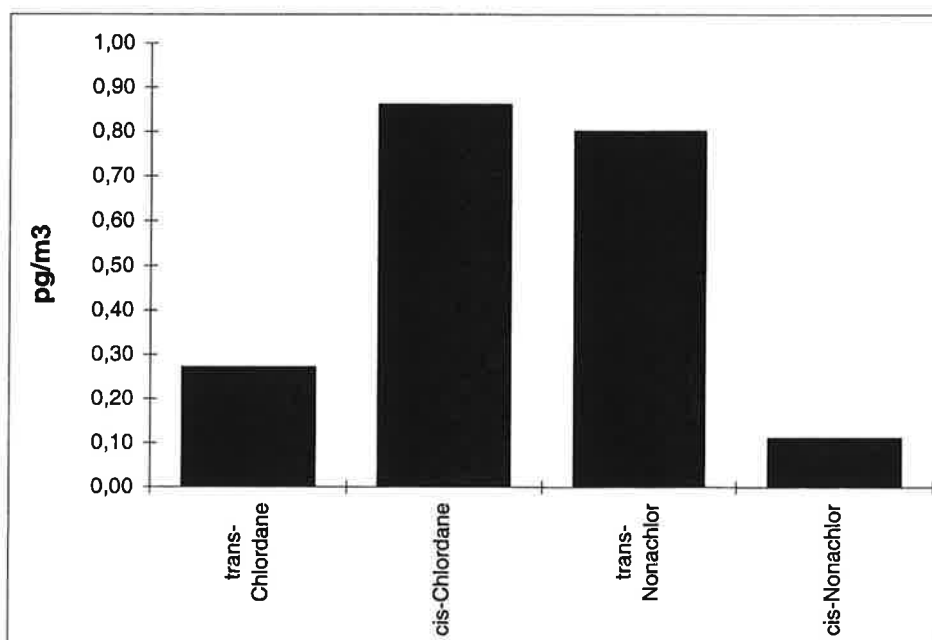
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value.

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank.

g : Recovery is not according to NILU's quality criteria



Results of Pesticid Analysis

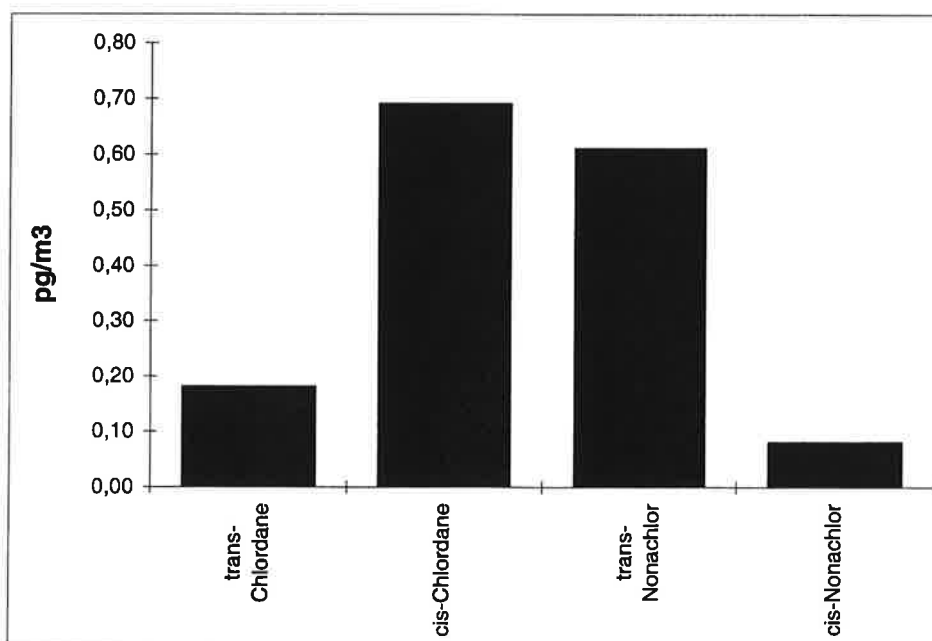


Encl. to measuring report : O-2081
 NILU-Sample number : 03/846
 Customer : Amap 03
 Customers sample ID : 19-21.5.03 0810-0731
 : 160-160
 Sample type : Luft
 Sample amount : 1140 m3
 Concentration units : pg/m3
 Data files : PA_7159.D

Kjeller, 01.09.03

Compound	Concentration	Recovery
Structure	pg/m3	%
trans-Chlordane *	0,18	79
cis-Chlordane *	0,69	
trans-Nonachlor *	0,61	
cis-Nonachlor *	0,08	

* : Based on internal standard ^{13}C -PCB-118.
 < : Lower than detection limit at signal-to-noise 3 to 1
 i : Isotope ratio deviates more than 20 % from theoretical value.
 This may be due to instrumental noise or/and chemical interference
 b : Lower than 10 times method blank.
 g : Recovery is not according to NILU's quality criteria



Results of Pesticid Analysis



Encl. to measuring report : O-2081
 NILU-Sample number : 03/849
 Customer : Amap 03
 Customers sample ID : 26-28.5.03 0740-0651
 : 160-158
 Sample type : Luft
 Sample amount : 1130 m3
 Concentration units : pg/m3
 Data files : PA_7160.D

Kjeller, 01.09.03

Compound	Concentration	Recovery
Structure	pg/m3	%
trans-Chlordane *	0,20	79
cis-Chlordane *	0,79	
trans-Nonachlor *	0,75	
cis-Nonachlor *	0,13	

* : Based on internal standard ^{13}C -PCB-118.

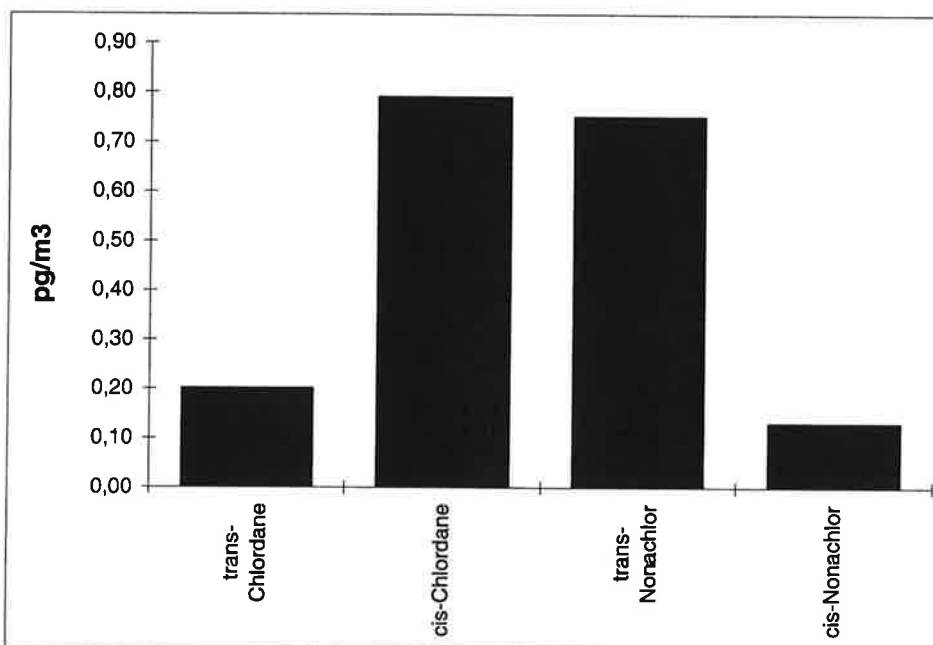
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value.

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank.

g : Recovery is not according to NILU's quality criteria





Results of Pesticid Analysis

Encl. to measuring report : O-2081
 NILU-Sample number : 03/1019
 Customer : Amap 03
 Customers sample ID : 4-6.6.03 0712-0819
 : 160-158
 Sample type : Luft
 Sample amount : 1176 m3
 Concentration units : pg/m3
 Data files : PA_7161.D

Kjeller, 01.09.03

Compound	Concentration	Recovery
Structure	pg/m3	%
trans-Chlordane *	0,13	80
cis-Chlordane *	0,60 b	
trans-Nonachlor *	0,53	
cis-Nonachlor *	0,08	

* : Based on internal standard ^{13}C -PCB-118.

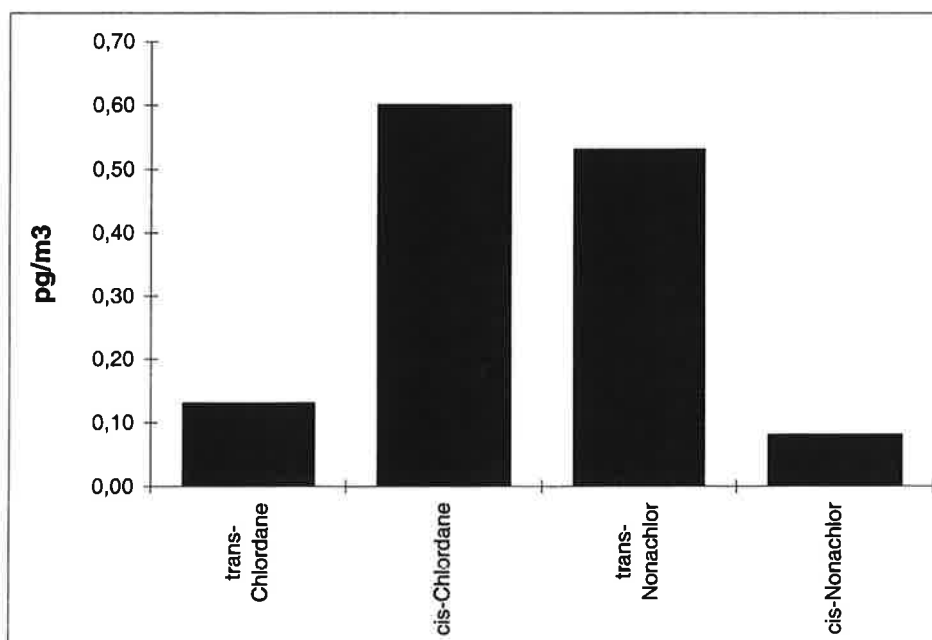
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value.

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank.

g : Recovery is not according to NILU's quality criteria



Results of Pesticid Analysis



Encl. to measuring report : O-2081
 NILU-Sample number : 03/1022
 Customer : Amap 03
 Customers sample ID : 11-13.6.03 0902-0732
 : 160-164
 Sample type : Luft
 Sample amount : 1135 m3
 Concentration units : pg/m3
 Data files : PA_7162.D

Kjeller, 01.09.03

Compound	Concentration	Recovery
Structure	pg/m3	%
trans-Chlordane *	0,13	80
cis-Chlordane *	0,67	
trans-Nonachlor *	0,63	
cis-Nonachlor *	0,12	

* : Based on internal standard ^{13}C -PCB-118.

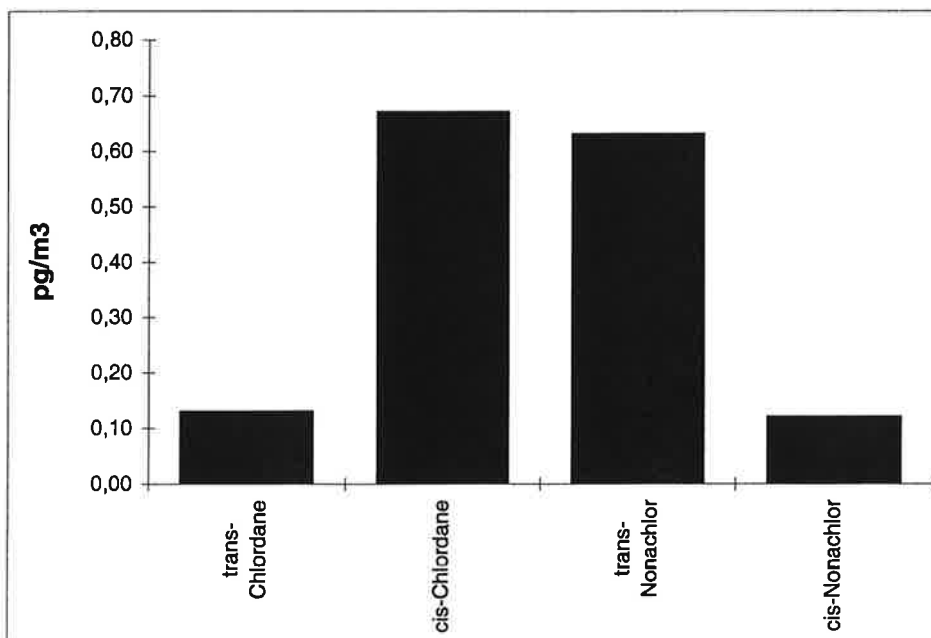
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value.

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank.

g : Recovery is not according to NILU's quality criteria





Results of Pesticid Analysis

Encl. to measuring report : O-2081
 NILU-Sample number : 03/1025
 Customer : Amap 03
 Customers sample ID : 18-20.6.03 0700-0754
 : 160-157
 Sample type : Luft
 Sample amount : 1169 m3
 Concentration units : pg/m3
 Data files : PA_7163.D

Kjeller, 01.09.03

Compound	Concentration	Recovery
Structure	pg/m3	%
trans-Chlordane *	0,12	78
cis-Chlordane *	0,60 b	
trans-Nonachlor *	0,52	
cis-Nonachlor *	0,09	

* : Based on internal standard ^{13}C -PCB-118.

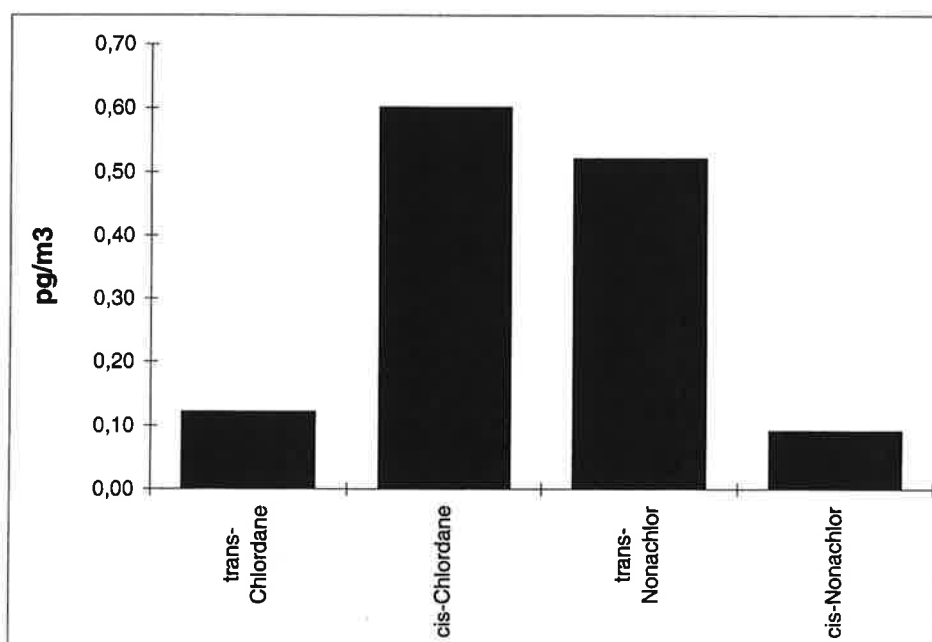
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value.

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank.

g : Recovery is not according to NILU's quality criteria



Results of Pesticid Analysis



Encl. to measuring report : O-2081
 NILU-Sample number : 03/1028
 Customer : Amap 03
 Customers sample ID : 25-27.6.03 0727-0726
 : 160-165
 Sample type : Luft
 Sample amount : 1176 m3
 Concentration units : pg/m3
 Data files : PA_7164.D

Kjeller, 01.09.03

Compound	Concentration	Recovery
Structure	pg/m3	%
trans-Chlordane *	0,14	89
cis-Chlordane *	0,59 b	
trans-Nonachlor *	0,48	
cis-Nonachlor *	0,09	

* : Based on internal standard ^{13}C -PCB-118.

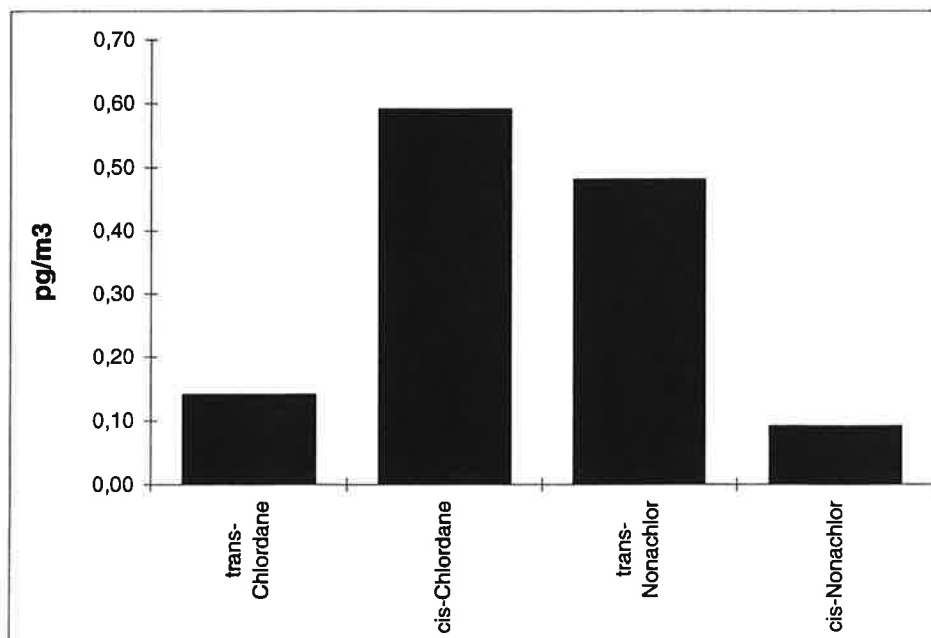
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value.

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank.

g : Recovery is not according to NILU's quality criteria





Results of Pesticid Analysis

Encl. to measuring report : O-2081
 NILU-Sample number : 03/1242
 Customer : Amap 03
 Customers sample ID : 4-6.7.03 0735-0935
 : 160-155
 Sample type : Luft
 Sample amount : 1188 m3
 Concentration units : pg/m3
 Data files : PA_7603.D

Kjeller, 09.03.04

Compound		Concentration	Recovery
Structure		pg/m3	%
trans-Chlordane	*	0,10	74
cis-Chlordane	*	0,53 b	
trans-Nonachlor	*	0,60	
cis-Nonachlor	*	0,10	

* : Based on internal standard ^{13}C -PCB-118.

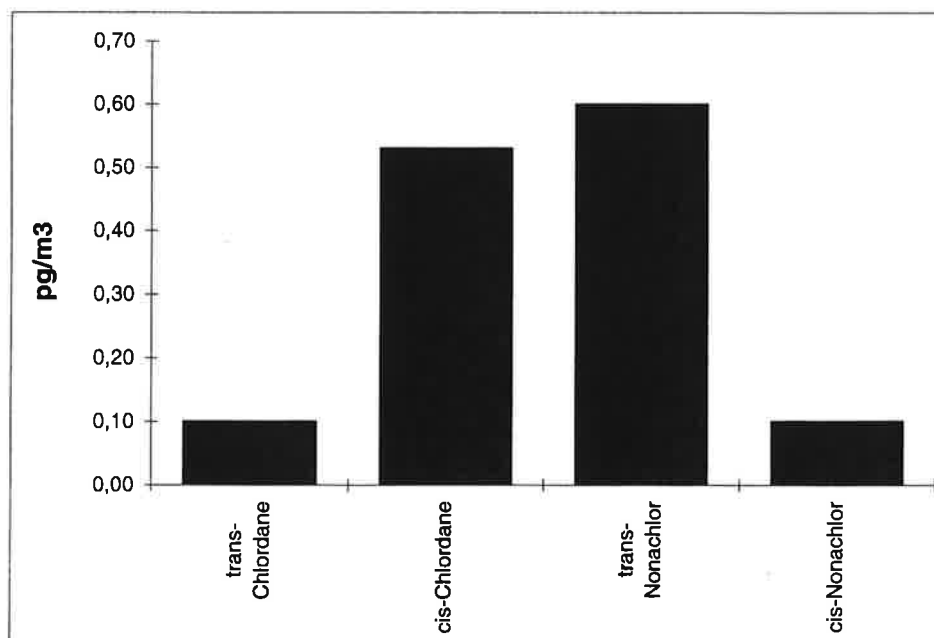
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value.

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank.

g : Recovery is not according to NILU's quality criteria



Results of Pesticid Analysis



Encl. to measuring report : O-2081
 NILU-Sample number : 03/1244
 Customer : Amap 03
 Customers sample ID : 9-11.7.03 0800-0737
 : 160-160
 Sample type : Luft
 Sample amount : 1147 m3
 Concentration units : pg/m3
 Data files : PA_7604.D

Kjeller, 09.03.04

Compound		Concentration	Recovery
Structure		pg/m3	%
trans-Chlordane	*	0,11	77
cis-Chlordane	*	0,62 b	
trans-Nonachlor	*	0,68	
cis-Nonachlor	*	0,12	

* : Based on internal standard ^{13}C -PCB-118.

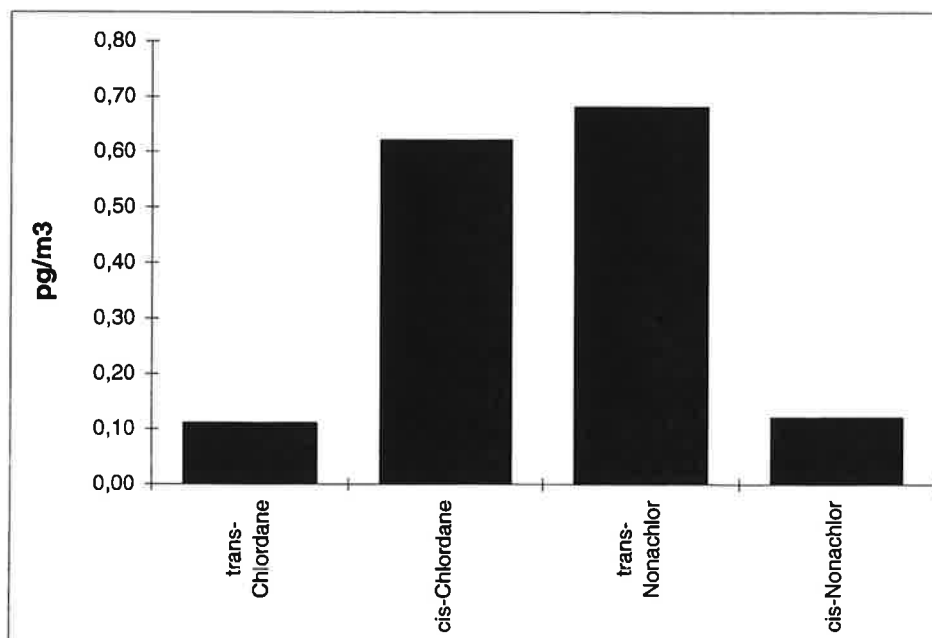
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value.

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank.

g : Recovery is not according to NILU's quality criteria





Results of Pesticid Analysis

Encl. to measuring report : O-2081
 NILU-Sample number : 03/1247
 Customer : Amap 03
 Customers sample ID : 16-18.7.03 0851-0736
 : 160-163
 Sample type : Luft
 Sample amount : 1132 m3
 Concentration units : pg/m3
 Data files : PA_7605.D

Kjeller, 09.03.04

Compound	Concentration	Recovery
Structure	pg/m3	%
trans-Chlordane *	0,19	79
cis-Chlordane *	0,73	
trans-Nonachlor *	0,77	
cis-Nonachlor *	0,12	

* : Based on internal standard ^{13}C -PCB-118.

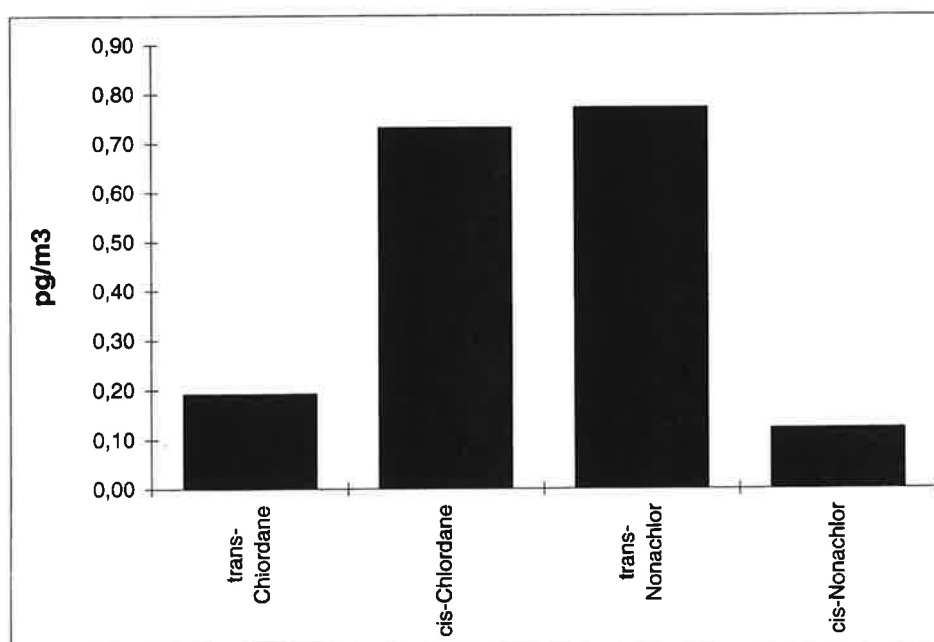
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value.

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank.

g : Recovery is not according to NILU's quality criteria



Results of Pesticid Analysis



Encl. to measuring report : O-2081
 NILU-Sample number : 03/1250
 Customer : Amap 03
 Customers sample ID : 23-25.7.03 0756-0716
 : 160-160
 Sample type : Luft
 Sample amount : 1140 m3
 Concentration units : pg/m3
 Data files : PA_7607.D

Kjeller, 09.03.04

Compound	Concentration	Recovery
Structure	pg/m3	%
trans-Chlordane *	0,11	70
cis-Chlordane *	0,56 b	
trans-Nonachlor *	0,54	
cis-Nonachlor *	0,10	

* : Based on internal standard ^{13}C -PCB-118.

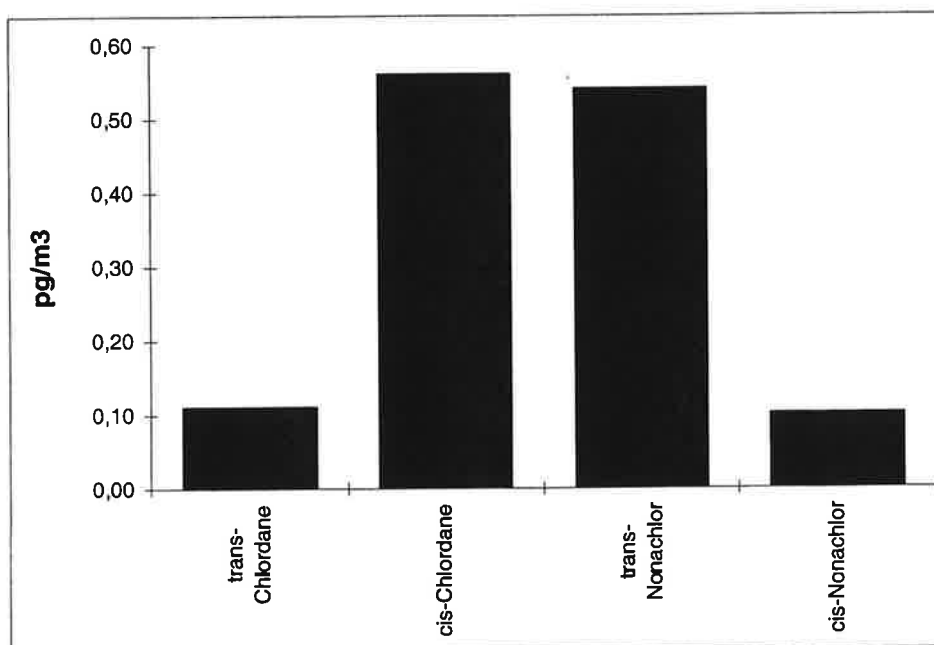
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value.

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank.

g : Recovery is not according to NILU's quality criteria





Results of Pesticid Analysis

Encl. to measuring report : O-2081
 NILU-Sample number : 03/1254
 Customer : Amap 03
 Customers sample ID : 1-3.8.03 0735-0913
 : 160-159
 Sample type : Luft
 Sample amount : 1193 m3
 Concentration units : pg/m3
 Data files : PA_7608.D

Kjeller, 09.03.04

Compound	Concentration	Recovery
Structure	pg/m3	%
trans-Chlordane *	0,12	80
cis-Chlordane *	0,46 b	
trans-Nonachlor *	0,47	
cis-Nonachlor *	0,08	

* : Based on internal standard ^{13}C -PCB-118.

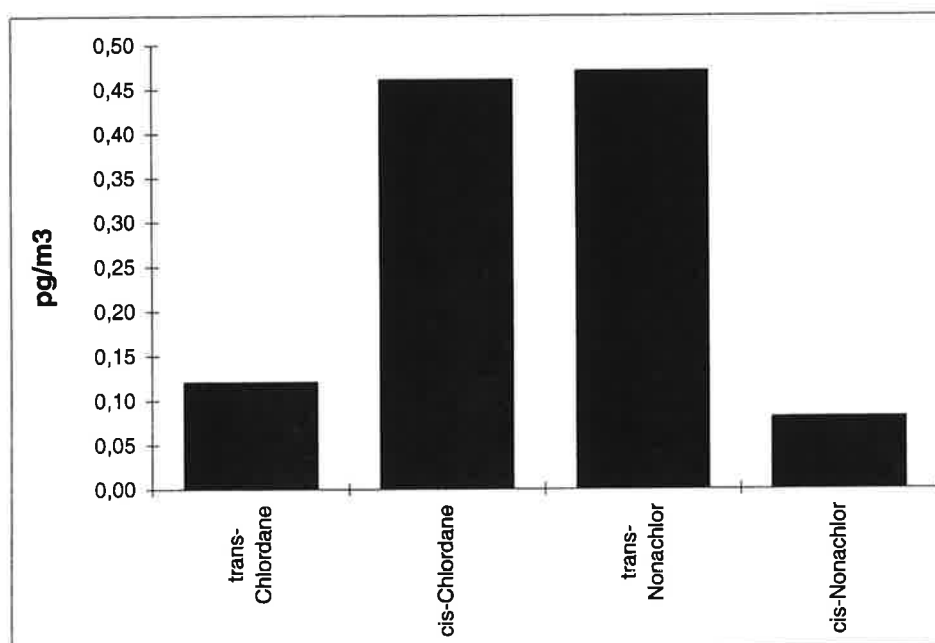
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value.

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank.

g : Recovery is not according to NILU's quality criteria



Results of Pesticid Analysis



Encl. to measuring report : O-2081
 NILU-Sample number : 03/1256
 Customer : Amap 03
 Customers sample ID : 6-8.8.03 0754-0659
 : 160-160
 Sample type : Luft
 Sample amount : 1135 m3
 Concentration units : pg/m3
 Data files : PA_7609.D

Kjeller, 09.03.04

Compound	Concentration	Recovery
Structure	pg/m3	%
trans-Chlordane *	0,15	73
cis-Chlordane *	0,67	
trans-Nonachlor *	0,73	
cis-Nonachlor *	0,14	

* : Based on internal standard ^{13}C -PCB-118.

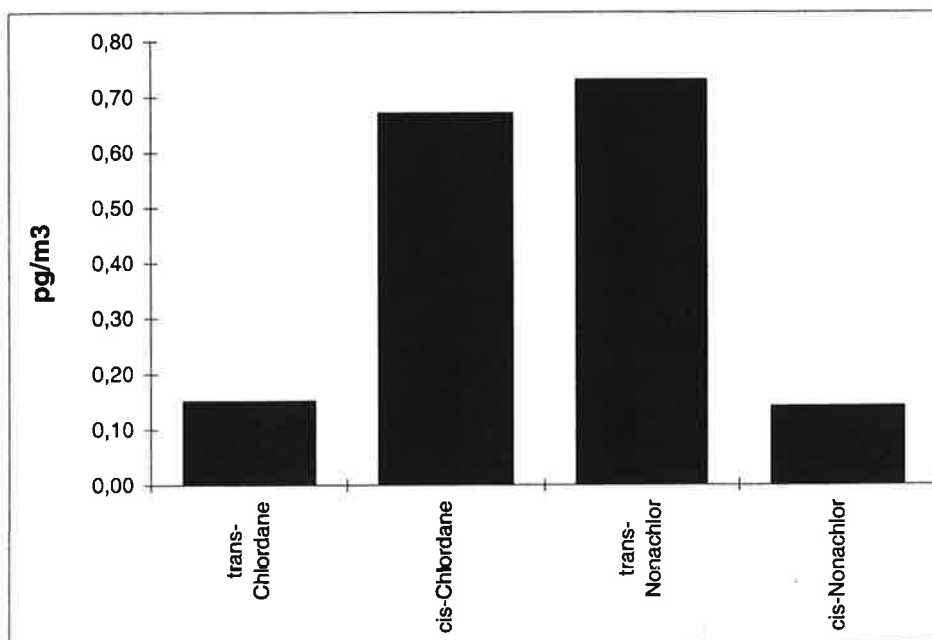
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value.

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank.

g : Recovery is not according to NILU's quality criteria





Results of Pesticid Analysis

Encl. to measuring report : O-2081
 NILU-Sample number : 03/1259
 Customer : Amap 03
 Customers sample ID : 13-15.8.03 0740-0849
 : 160-158
 Sample type : Luft
 Sample amount : 1178 m3
 Concentration units : pg/m3
 Data files : PA_7610.D

Kjeller, 09.03.04

Compound	Concentration	Recovery
Structure	pg/m3	%
trans-Chlordane *	0,14	79
cis-Chlordane *	0,84	
trans-Nonachlor *	0,83	
cis-Nonachlor *	0,14	

* : Based on internal standard ^{13}C -PCB-118.

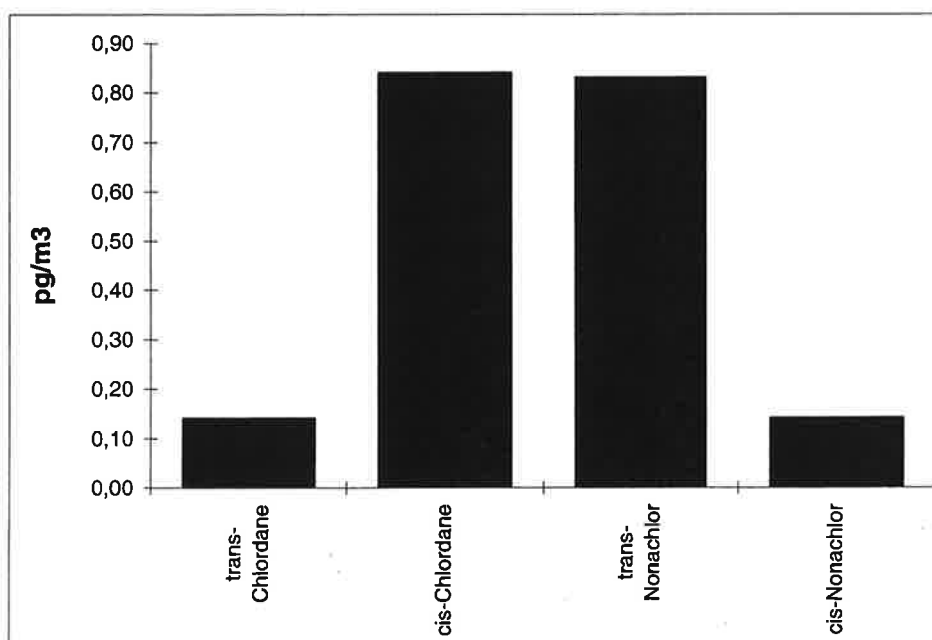
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value.

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank.

g : Recovery is not according to NILU's quality criteria



Results of Pesticid Analysis



Encl. to measuring report : O-2081
 NILU-Sample number : 03/1262
 Customer : Amap 03
 Customers sample ID : 20-22.8.03 0804-0813
 : 160-158
 Sample type : Luft
 Sample amount : 1154 m3
 Concentration units : pg/m3
 Data files : PA_7611.D

Kjeller, 09.03.04

Compound		Concentration	Recovery
Structure		pg/m3	%
trans-Chlordane	*	0,18	72
cis-Chlordane	*	0,73	
trans-Nonachlor	*	0,73	
cis-Nonachlor	*	0,13	

* : Based on internal standard ^{13}C -PCB-118.

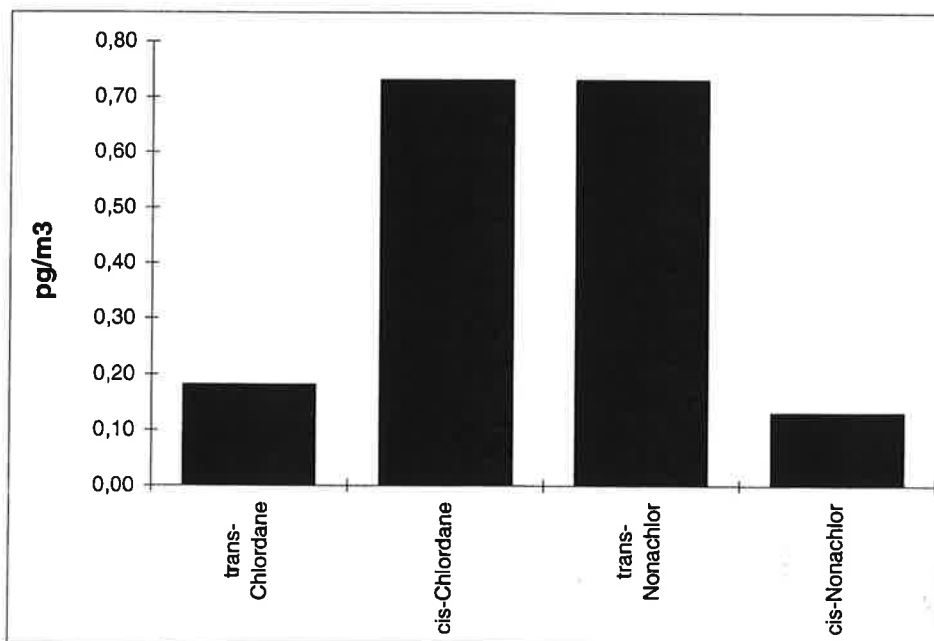
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value.

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank.

g : Recovery is not according to NILU's quality criteria





Results of Pesticid Analysis

Encl. to measuring report : O-2081
 NILU-Sample number : 03/1265
 Customer : Amap 03
 Customers sample ID : 27-29.8.03 0710-0735
 : 160-160
 Sample type : Luft
 Sample amount : 1166 m3
 Concentration units : pg/m3
 Data files : PA_7612.D

Kjeller, 09.03.04

Compound		Concentration	Recovery
Structure		pg/m3	%
trans-Chlordane	*	0,10	81
cis-Chlordane	*	0,59 b	
trans-Nonachlor	*	0,55	
cis-Nonachlor	*	0,11	

* : Based on internal standard ^{13}C -PCB-118.

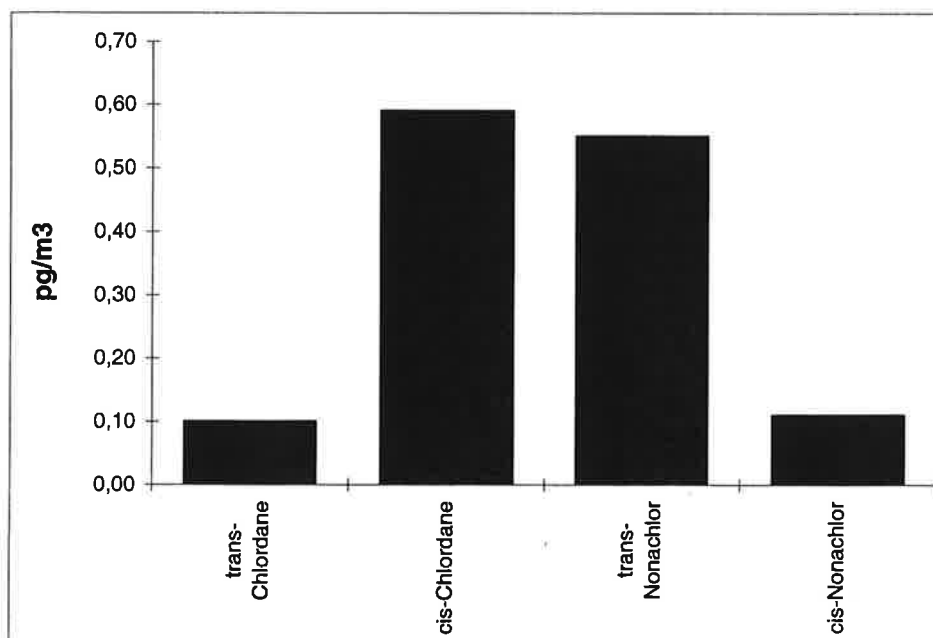
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value.

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank.

g : Recovery is not according to NILU's quality criteria



Results of Pesticid Analysis

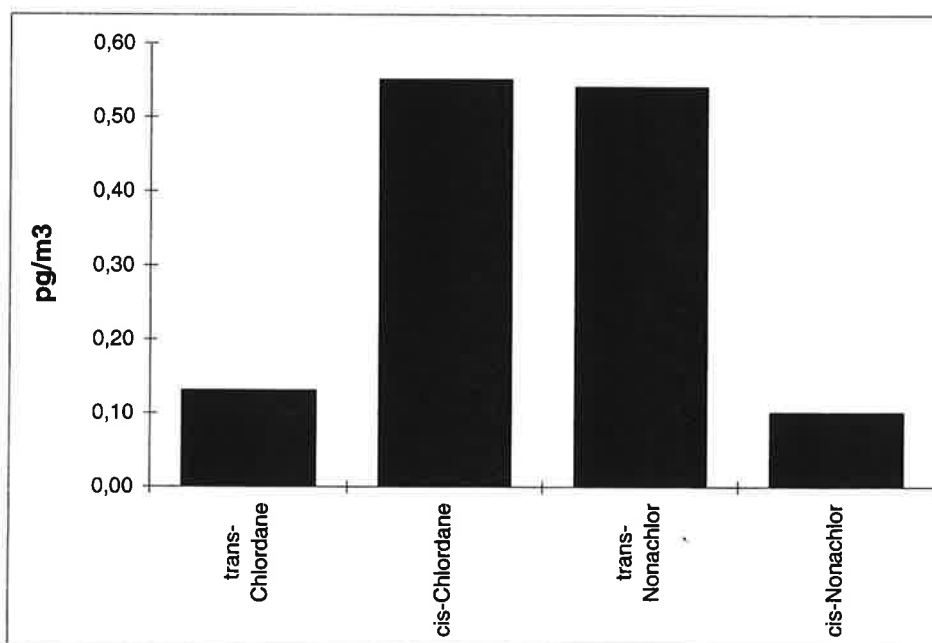


Encl. to measuring report : O-2081
 NILU-Sample number : 03/1516
 Customer : Amap 03
 Customers sample ID : 3-5.9.03 0753-0737
 : 160-166
 Sample type : Luft
 Sample amount : 1171 m3
 Concentration units : pg/m3
 Data files : PA_7614.D

Kjeller, 09.03.04

Compound	Concentration	Recovery
Structure	pg/m3	%
trans-Chlordane *	0,13	81
cis-Chlordane *	0,55 b	
trans-Nonachlor *	0,54	
cis-Nonachlor *	0,10	

* : Based on internal standard ^{13}C -PCB-118.
 < : Lower than detection limit at signal-to-noise 3 to 1
 i : Isotope ratio deviates more than 20 % from theoretical value.
 This may be due to instrumental noise or/and chemical interference
 b : Lower than 10 times method blank.
 g : Recovery is not according to NILU's quality criteria





Results of Pesticid Analysis

Encl. to measuring report : O-2081
 NILU-Sample number : 03/1519
 Customer : Amap 03
 Customers sample ID : 10-12.9.03 0700-0702
 : 160-157
 Sample type : Luft
 Sample amount : 1147 m3
 Concentration units : pg/m3
 Data files : PA_7615.D

Kjeller, 09.03.04

Compound		Concentration	Recovery
Structure		pg/m3	%
trans-Chlordane	*	0,15	82
cis-Chlordane	*	0,65	
trans-Nonachlor	*	0,69	
cis-Nonachlor	*	0,14	

* : Based on internal standard ^{13}C -PCB-118.

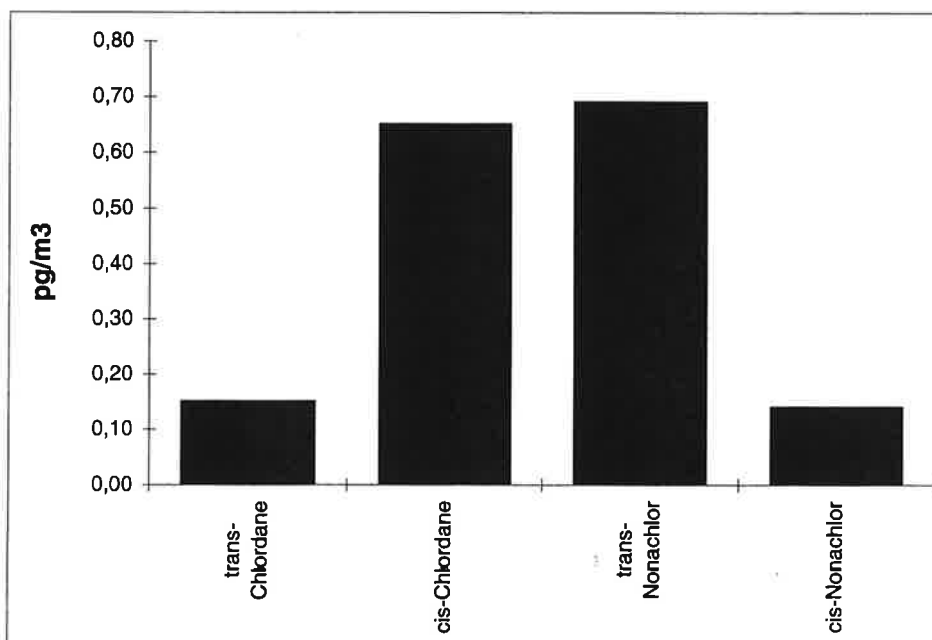
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value.

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank.

g : Recovery is not according to NILU's quality criteria



Results of Pesticid Analysis



Encl. to measuring report : O-2081
 NILU-Sample number : 03/1522
 Customer : Amap 03
 Customers sample ID : 17-19.9.03 0808-0726
 : 160-160
 Sample type : Luft
 Sample amount : 1140 m3
 Concentration units : pg/m3
 Data files : PA_7616.D

Kjeller, 09.03.04

Compound	Concentration	Recovery
Structure	pg/m3	%
trans-Chlordane *	0,09	65
cis-Chlordane *	0,65	
trans-Nonachlor *	0,57	
cis-Nonachlor *	0,11	

* : Based on internal standard ^{13}C -PCB-118.

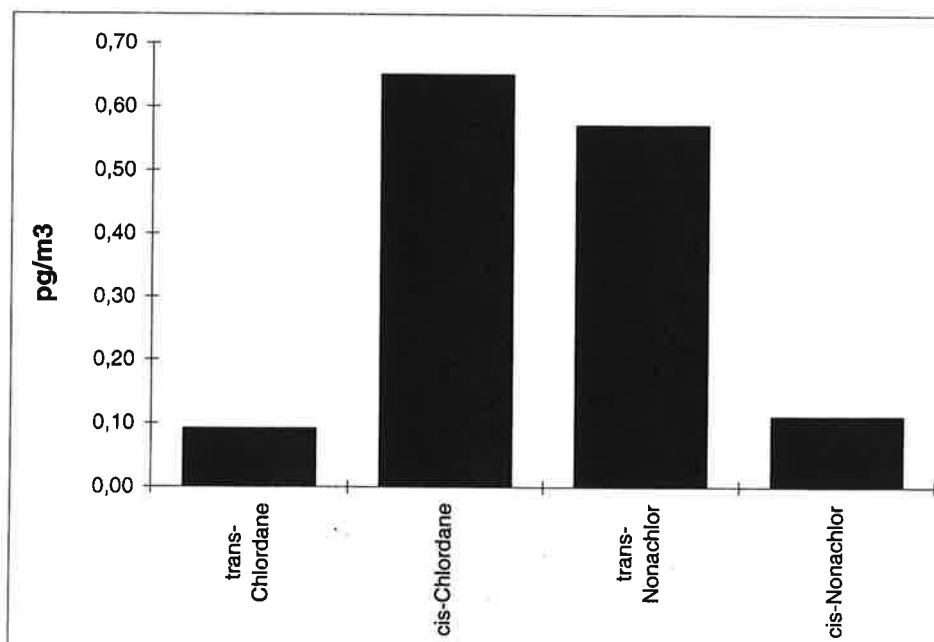
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value.

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank.

g : Recovery is not according to NILU's quality criteria





Results of Pesticid Analysis

Encl. to measuring report : O-2081
 NILU-Sample number : 03/1525
 Customer : Amap 03
 Customers sample ID : 24-26.9.03 0738-1000
 : 160-162
 Sample type : Luft
 Sample amount : 1220 m3
 Concentration units : pg/m3
 Data files : PA_7617.D

Kjeller, 09.03.04

Compound		Concentration	Recovery
Structure		pg/m3	%
trans-Chlordane	*	0,12	75
cis-Chlordane	*	0,68	
trans-Nonachlor	*	0,67	
cis-Nonachlor	*	0,11	

* : Based on internal standard ¹³C-PCB-118.

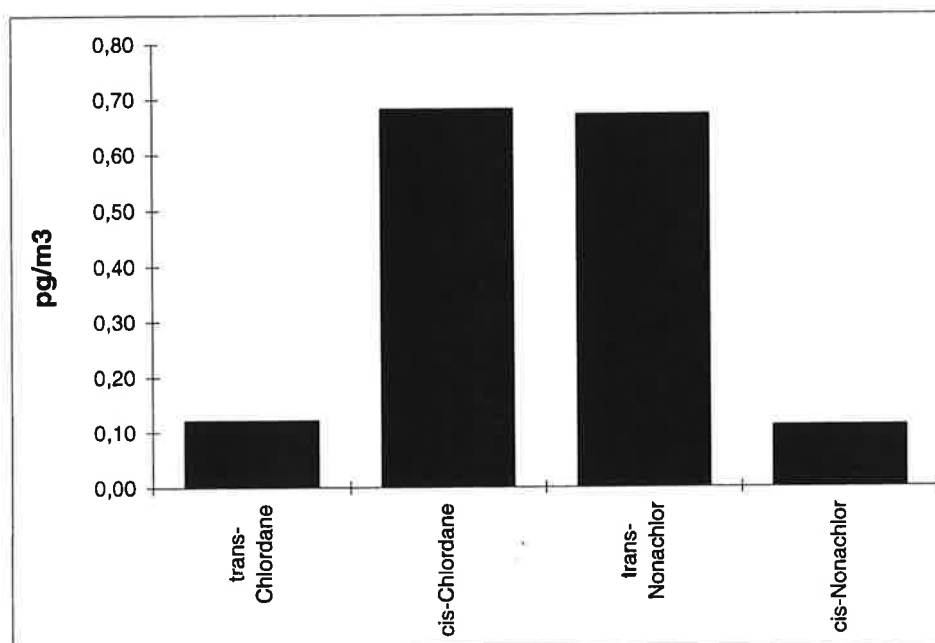
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value.

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank.

g : Recovery is not according to NILU's quality criteria



Results of Pesticid Analysis



Encl. to measuring report : O-2081
 NILU-Sample number : 03/1527
 Customer : Amap 03
 Customers sample ID : 29.9-1.10.03 0722-0857
 : 160-160
 Sample type : Luft
 Sample amount : 1171 m3
 Concentration units : pg/m3
 Data files : PA_7618.D

Kjeller, 09.03.04

Compound	Concentration	Recovery
Structure	pg/m3	%
trans-Chlordane *	0,11	80
cis-Chlordane *	0,63 b	
trans-Nonachlor *	0,61	
cis-Nonachlor *	0,10	

* : Based on internal standard ^{13}C -PCB-118.

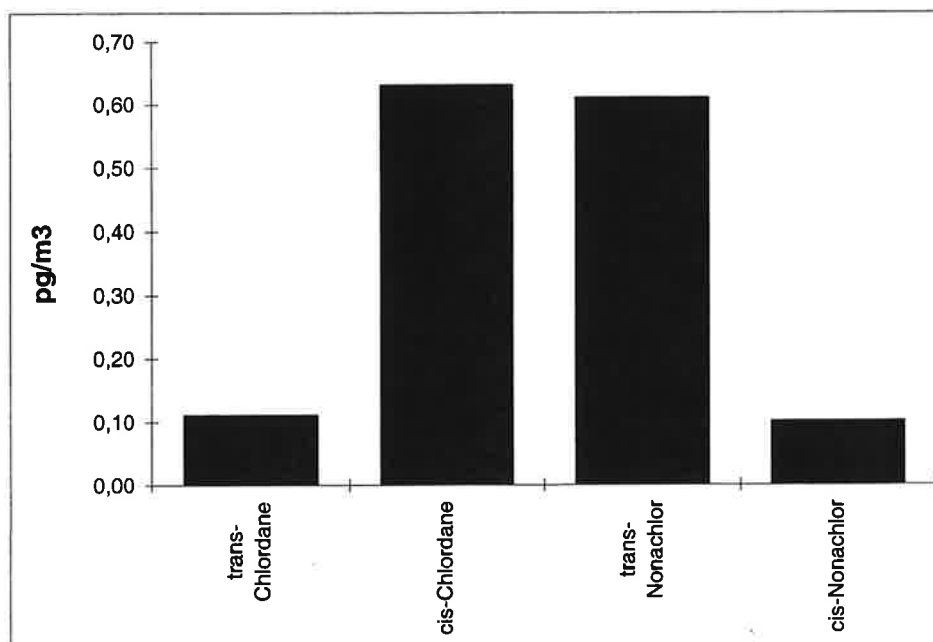
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value.

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank.

g : Recovery is not according to NILU's quality criteria





Results of Pesticid Analysis

Encl. to measuring report : O-2081
 NILU-Sample number : 03/1756
 Customer : Amap 03
 Customers sample ID : 8-10.10.03 0737-0917
 : 160-150
 Sample type : Luft
 Sample amount : 1161 m3
 Concentration units : pg/m3
 Data files : PA_7816.D

Kjeller, 22.04.04

Compound	Concentration	Recovery
Structure	pg/m3	%
trans-Chlordane *	0,33	93
cis-Chlordane *	1,24	
trans-Nonachlor *	1,16	
cis-Nonachlor *	0,15	

* : Based on internal standard ^{13}C -PCB-118.

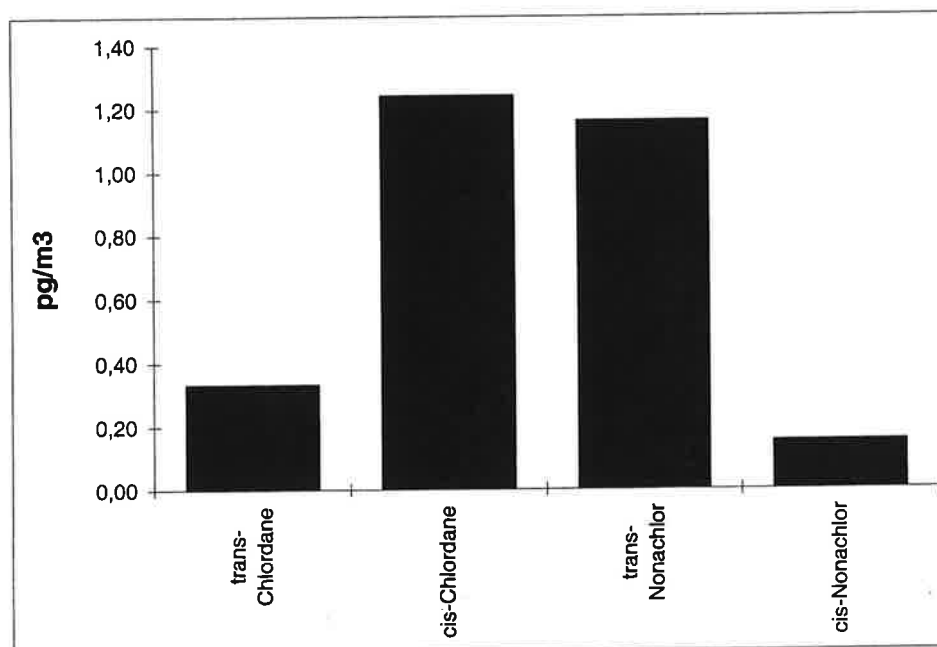
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value.

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank.

g : Recovery is not according to NILU's quality criteria



Results of Pesticid Analysis



Encl. to measuring report : O-2081
 NILU-Sample number : 03/1758
 Customer : Amap 03
 Customers sample ID : 13-16.10.03 0650-0723
 : 160-145
 Sample type : Luft
 Sample amount : 1670 m3
 Concentration units : pg/m3
 Data files : PA_7817.D

Kjeller, 22.04.04

Compound	Concentration	Recovery
Structure	pg/m3	%
trans-Chlordane *	0,20	86
cis-Chlordane *	0,68	
trans-Nonachlor *	0,71	
cis-Nonachlor *	0,09	

* : Based on internal standard ^{13}C -PCB-118.

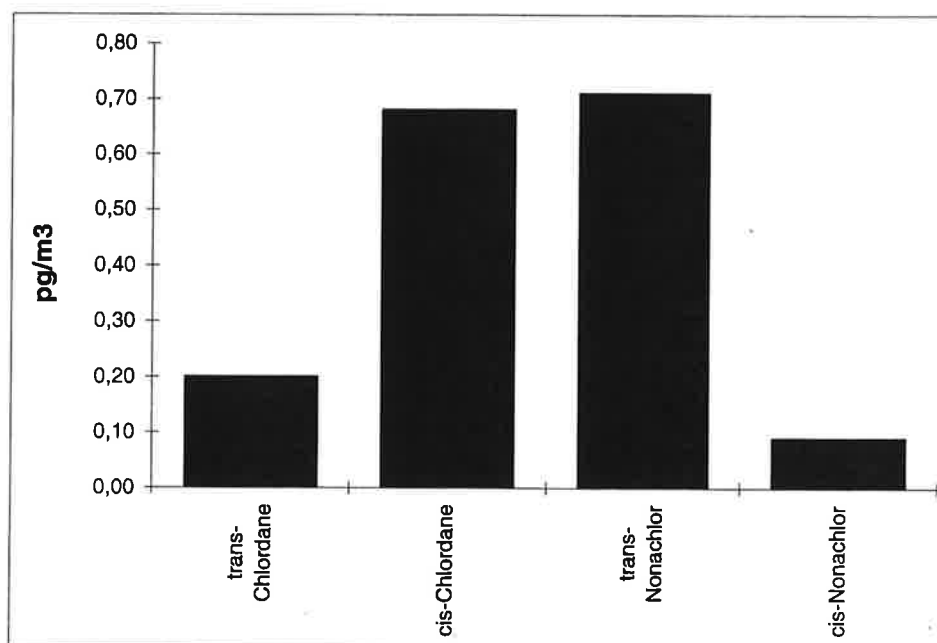
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value.

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank.

g : Recovery is not according to NILU's quality criteria





Results of Pesticid Analysis

Encl. to measuring report : O-2081
 NILU-Sample number : 03/1761
 Customer : Amap 03
 Customers sample ID : 20-22.10.03 0730-0850
 : 160-160
 Sample type : Luft
 Sample amount : 1188 m3
 Concentration units : pg/m3
 Data files : PA_7818.D

Kjeller, 22.04.04

Compound	Concentration	Recovery
Structure	pg/m3	%
trans-Chlordane *	0,35	75
cis-Chlordane *	1,20	
trans-Nonachlor *	1,14	
cis-Nonachlor *	0,10	

* : Based on internal standard ^{13}C -PCB-118.

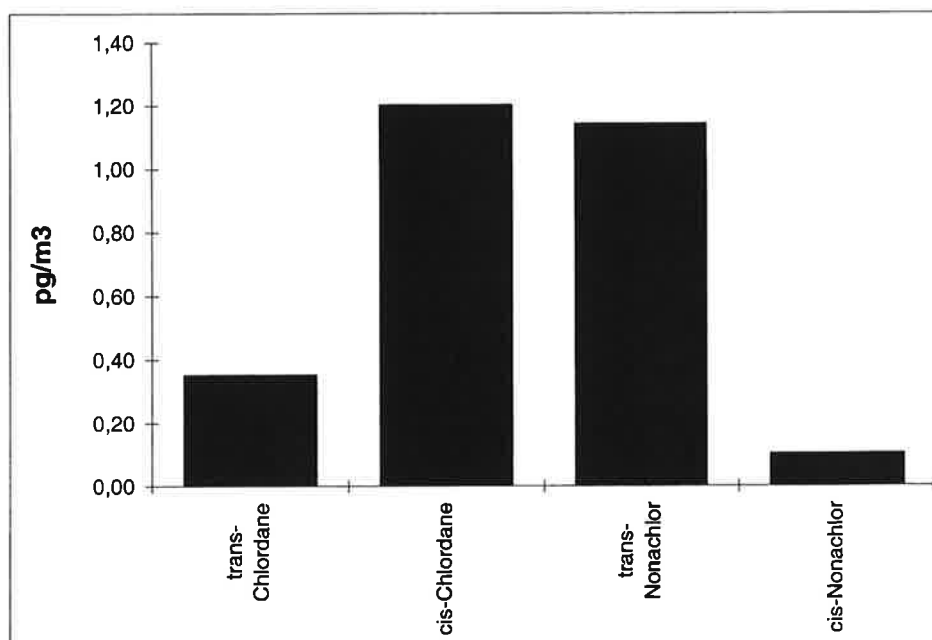
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value.

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank.

g : Recovery is not according to NILU's quality criteria



Results of Pesticid Analysis



Encl. to measuring report : O-2081
 NILU-Sample number : 03/1765
 Customer : Amap 03
 Customers sample ID : 29-31.10.03 0948-0834
 : 160-163
 Sample type : Luft
 Sample amount : 1135 m3
 Concentration units : pg/m3
 Data files : PA_7819.D

Kjeller, 22.04.04

Compound		Concentration	Recovery
Structure		pg/m3	%
trans-Chlordane	*	0,23	78
cis-Chlordane	*	0,80	
trans-Nonachlor	*	0,98	
cis-Nonachlor	*	0,04	

* : Based on internal standard ^{13}C -PCB-118.

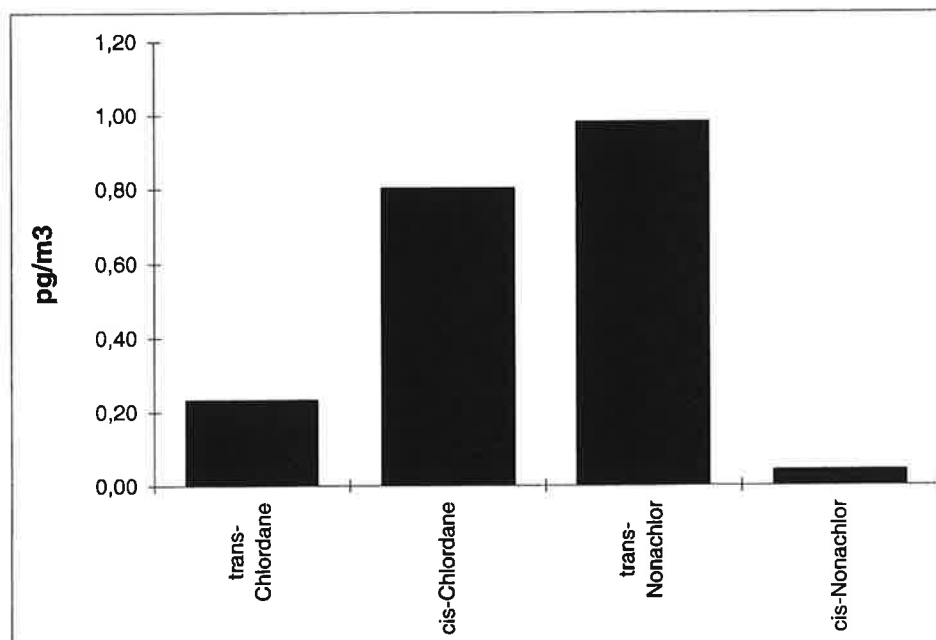
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value.

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank.

g : Recovery is not according to NILU's quality criteria





Results of Pesticid Analysis

Encl. to measuring report : O-2081
 NILU-Sample number : 03/1768
 Customer : Amap 03
 Customers sample ID : 5-7.11.03 1020-0905
 : 160-156
 Sample type : Luft
 Sample amount : 1111 m3
 Concentration units : pg/m3
 Data files : PA_7821.D

Kjeller, 22.04.04

Compound	Concentration	Recovery
Structure	pg/m3	%
trans-Chlordane *	0,37	83
cis-Chlordane *	0,85	
trans-Nonachlor *	0,80	
cis-Nonachlor *	0,08	

* : Based on internal standard ^{13}C -PCB-118.

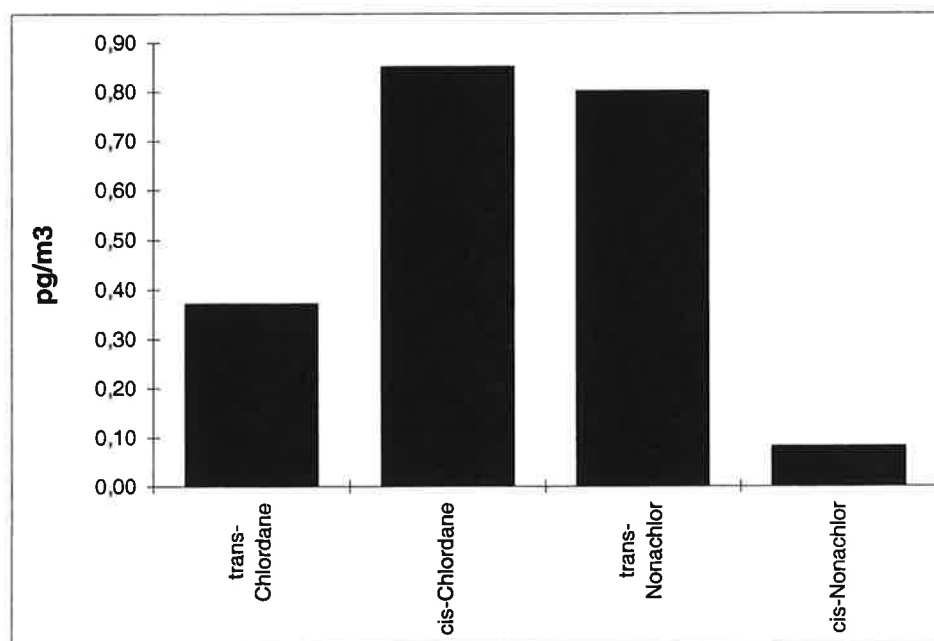
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value.

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank.

g : Recovery is not according to NILU's quality criteria



Results of Pesticid Analysis



Encl. to measuring report : O-2081
 NILU-Sample number : 04/106
 Customer : Amap 03
 Customers sample ID : 12-14.11.03 0913-0937
 : 160-161
 Sample type : Luft
 Sample amount : 1169 m3
 Concentration units : pg/m3
 Data files : PA_7822.D

Kjeller, 22.04.04

Compound	Concentration	Recovery
Structure	pg/m3	%
trans-Chlordane *	0,33	83
cis-Chlordane *	0,85	
trans-Nonachlor *	1,27	
cis-Nonachlor *	0,09	

* : Based on internal standard ^{13}C -PCB-118.

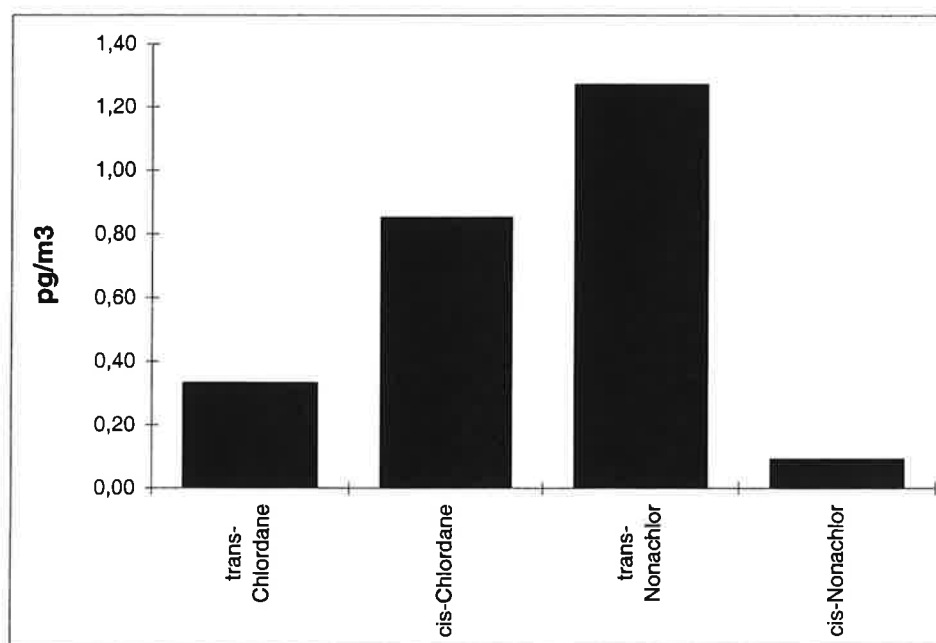
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value.

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank.

g : Recovery is not according to NILU's quality criteria



Results of Pesticid Analysis



Encl. to measuring report : O-2081
 NILU-Sample number : 04/109
 Customer : Amap 03
 Customers sample ID : 19-21.11.03 0843-0836
 : 160-154
 Sample type : Luft
 Sample amount : 1133 m3
 Concentration units : pg/m3
 Data files : PA_7824.D

Kjeller, 22.04.04

Compound	Concentration	Recovery
Structure	pg/m3	%
trans-Chlordane *	0,43	64
cis-Chlordane *	0,91	
trans-Nonachlor *	0,95	
cis-Nonachlor *	0,06	

* : Based on internal standard ^{13}C -PCB-118.

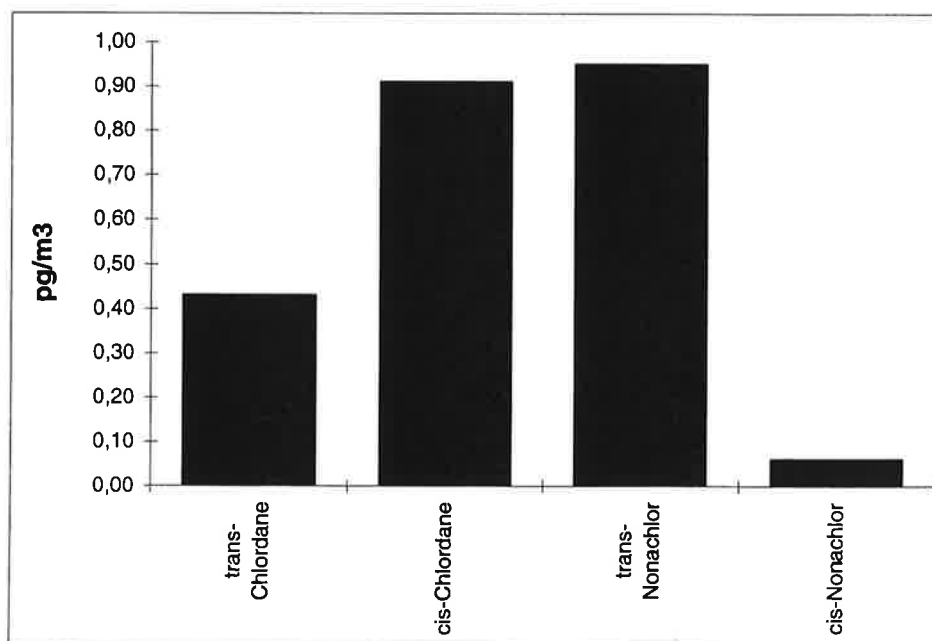
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value.

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank.

g : Recovery is not according to NILU's quality criteria



Results of Pesticid Analysis



Encl. to measuring report : O-2081
 NILU-Sample number : 04/112
 Customer : Amap 03
 Customers sample ID : 26-28.11.03 0854-0751
 : 160-158
 Sample type : Luft
 Sample amount : 1126 m3
 Concentration units : pg/m3
 Data files : PA_7825.D

Kjeller, 22.04.04

Compound		Concentration	Recovery
Structure		pg/m3	%
trans-Chlordane	*	0,81	70
cis-Chlordane	*	1,37	
trans-Nonachlor	*	1,55	
cis-Nonachlor	*	0,14	

* : Based on internal standard ^{13}C -PCB-118.

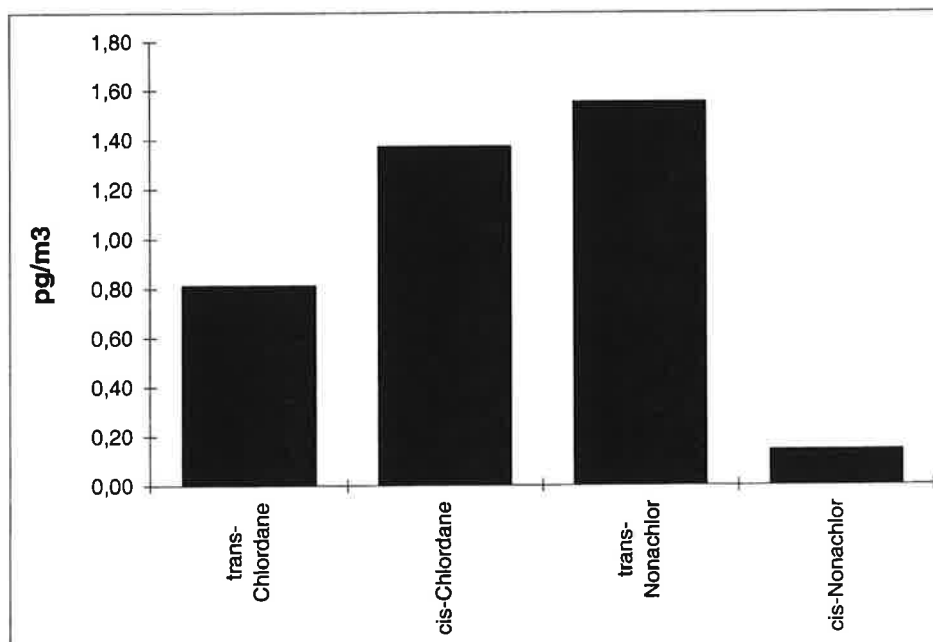
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value.

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank.

g : Recovery is not according to NILU's quality criteria





Results of Pesticid Analysis

Encl. to measuring report : O-2081
 NILU-Sample number : 04/115
 Customer : Amap 03
 Customers sample ID : 3-5.12.03 0855-0848
 : 160-170
 Sample type : Luft
 Sample amount : 1193 m3
 Concentration units : pg/m3
 Data files : PA_7827.D

Kjeller, 22.04.04

Compound	Concentration	Recovery
Structure	pg/m3	%
trans-Chlordane *	0,31	75
cis-Chlordane *	0,58 b	
trans-Nonachlor *	0,60	
cis-Nonachlor *	0,04	

* : Based on internal standard ^{13}C -PCB-118.

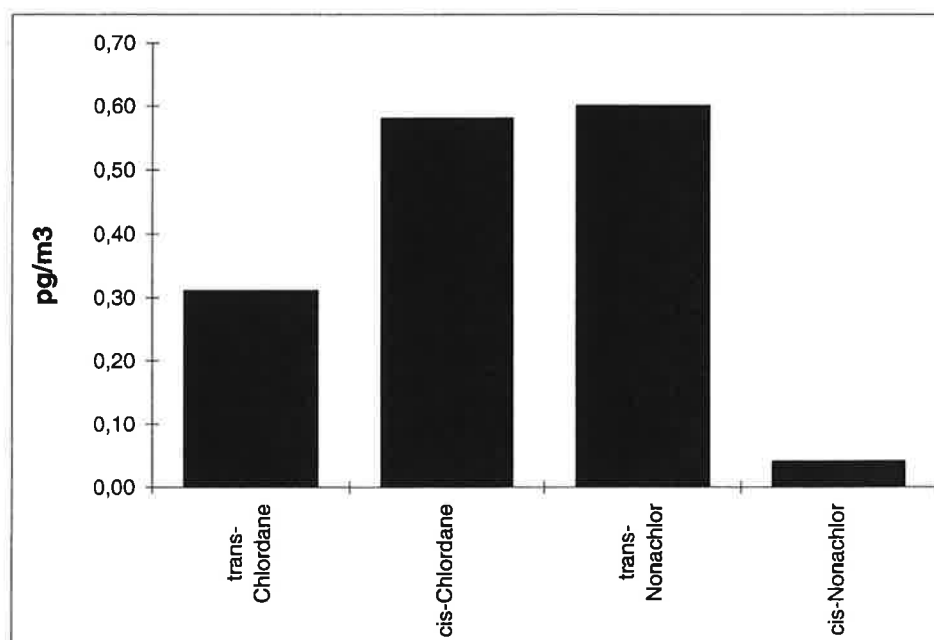
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value.

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank.

g : Recovery is not according to NILU's quality criteria



Results of Pesticid Analysis



Encl. to measuring report : O-2081
 NILU-Sample number : 04/118
 Customer : Amap 03
 Customers sample ID : 10-12.12.03 1030-0852
 : 160-150
 Sample type : Luft
 Sample amount : 1083 m3
 Concentration units : pg/m3
 Data files : PA_7828.D

Kjeller, 22.04.04

Compound	Concentration	Recovery
Structure	pg/m3	%
trans-Chlordane *	0,46	80
cis-Chlordane *	0,82	
trans-Nonachlor *	0,90	
cis-Nonachlor *	0,05	

* : Based on internal standard ^{13}C -PCB-118.

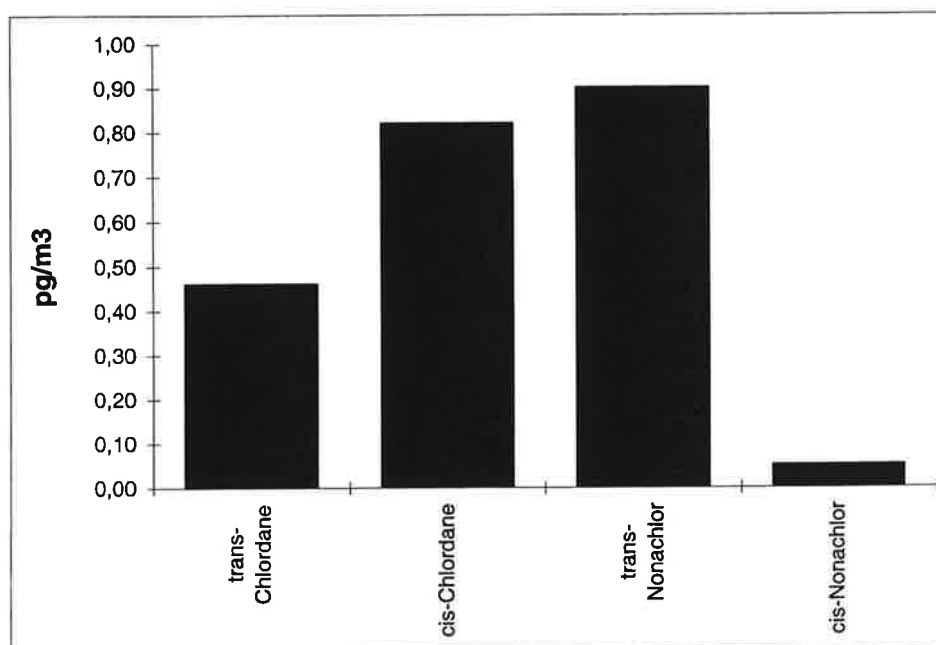
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value.

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank.

g : Recovery is not according to NILU's quality criteria





Results of Pesticid Analysis

Encl. to measuring report : O-2081
 NILU-Sample number : 04/121
 Customer : Amap 03
 Customers sample ID : 17-19.12.03 0940-0845
 : 160-160
 Sample type : Luft
 Sample amount : 1130 m3
 Concentration units : pg/m3
 Data files : PA_7829.D

Kjeller, 22.04.04

Compound	Concentration	Recovery
Structure	pg/m3	%
trans-Chlordane *	0,36	66
cis-Chlordane *	0,64 b	
trans-Nonachlor *	0,63	
cis-Nonachlor *	0,03	

* : Based on internal standard ^{13}C -PCB-118.

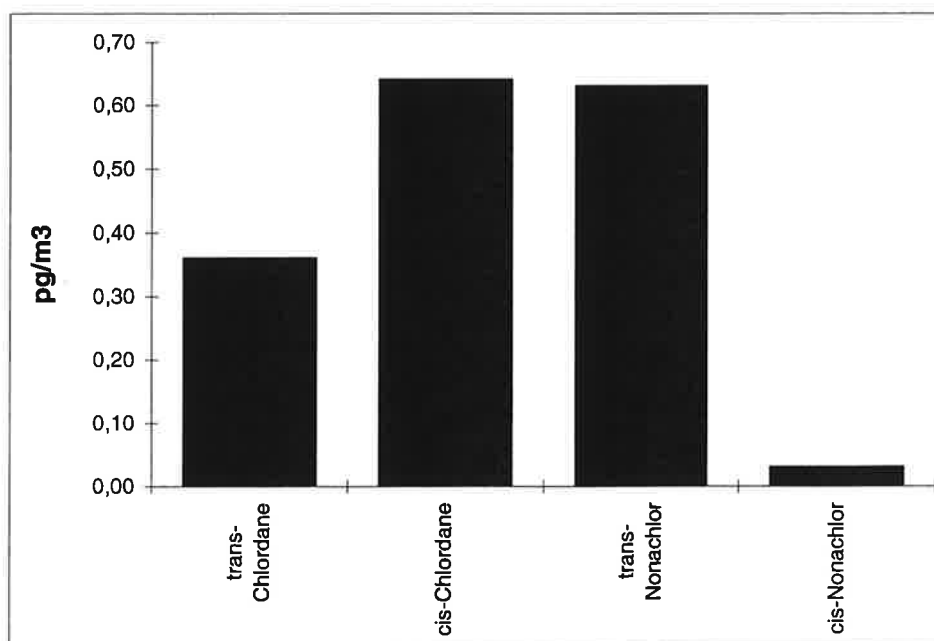
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value.

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank.

g : Recovery is not according to NILU's quality criteria



Results of Pesticid Analysis



Encl. to measuring report : O-2081
 NILU-Sample number : 04/124
 Customer : Amap 03
 Customers sample ID : 24-26.12.03 0820-1106
 : 160-160
 Sample type : Luft
 Sample amount : 1224 m3
 Concentration units : pg/m3
 Data files : PA_7830.D

Kjeller, 22.04.04

Compound	Concentration	Recovery
Structure	pg/m3	%
trans-Chlordane *	0,46	72
cis-Chlordane *	0,81	
trans-Nonachlor *	0,86	
cis-Nonachlor *	0,05	

* : Based on internal standard ¹³C-PCB-118.

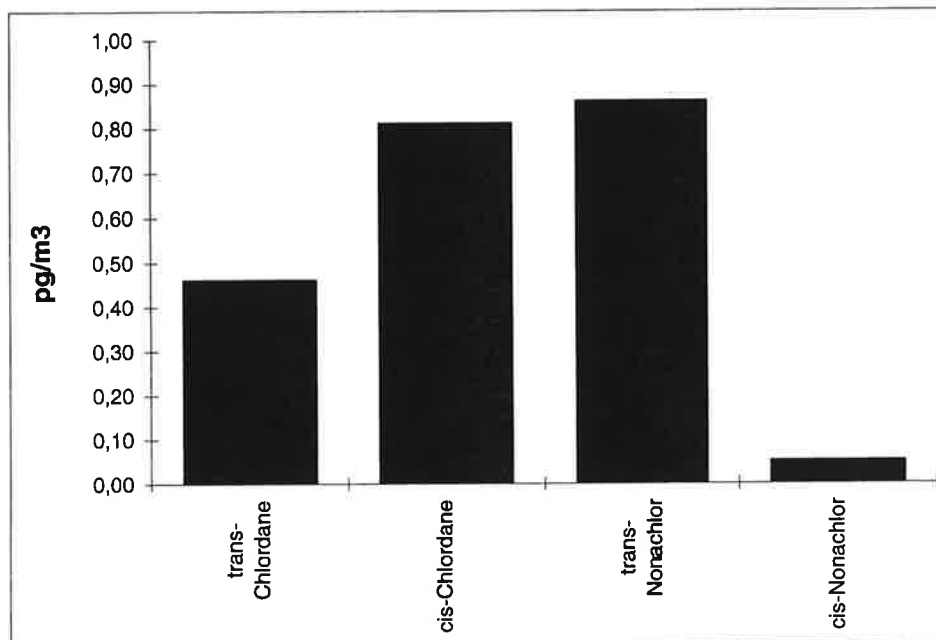
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value.

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank.

g : Recovery is not according to NILU's quality criteria



Results of Pesticid Analysis



Encl. to measuring report : O-2081
 NILU-Sample number : 04/127
 Customer : Amap 03
 Customers sample ID : 31.12.03-2.1.04 0751-0951
 : 160-153
 Sample type : Luft
 Sample amount : 1180 m3
 Concentration units : pg/m3
 Data files : PA_7831.D

Kjeller, 22.04.04

Compound	Concentration	Recovery
Structure	pg/m3	%
trans-Chlordane *	0,44	73
cis-Chlordane *	0,73	
trans-Nonachlor *	0,78	
cis-Nonachlor *	0,03	

* : Based on internal standard ^{13}C -PCB-118.

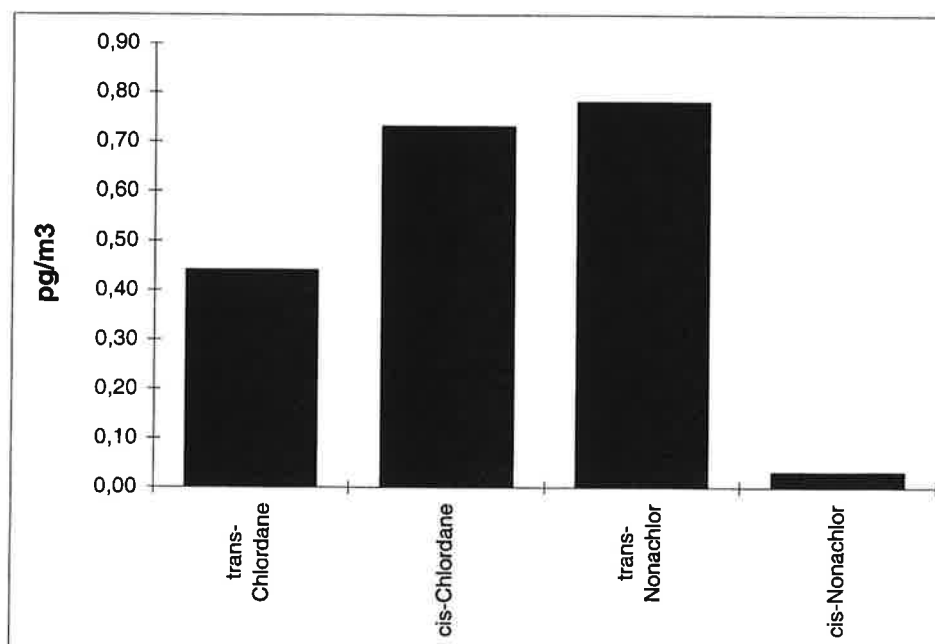
< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value.

This may be due to instrumental noise or/and chemical interference

b : Lower than 10 times method blank.

g : Recovery is not according to NILU's quality criteria



Vedlegg 10

Organiske forbindelser i luft i Ny-Ålesund (O-2558)

Målerapport nr. O-2558

Oppdragsgiver: Statens forurensningstilsyn (SFT)
Postboks 8100 DEP
0032 OSLO

Prosjekt nr.: O-93062

Prøvetaking:

Sted:

Ansvar: NILU

Kommentar:

Prøveinformasjon:

NILU prøvenr.	Kundens prøvemerkning	Prøvetype	Prøven mottatt uke
03/44	30.12.02-1.1.03	Luft	1
03/296	1-3.1.03	"	"
03/298	6-8.1.03	"	2
03/301	13-15.1.03	"	3
03/304	20-22.1.03	"	4
03/308	29-31.1.03	"	5
03/310	3-5.2.03	"	6
03/313	10-12.2.03	"	7
03/315	14-16.2.03	"	"
03/320	26-28.2.03	"	9
03/463	3-5.3.03	"	10
03/466	10-12.3.03	"	11
03/469	17-19.3.03	"	12
03/473	26-28.3.03	"	13
03/476	2-4.4.03	"	14
03/478	7-9.4.03	"	15
03/481	14-16.4.03	"	16
03/834	18-22.4.03	"	16/17
03/836	25-27.4.03	"	17
03/838	30.4-2.5.03	"	18
03/840	5-7.5.03	"	19
03/843	12-14.5.03	"	20
03/846	19-21.5.03	"	21
03/849	26-28.5.03	"	22
03/1019	4-6.6.03	"	23
03/1022	11-13.6.03	"	24
03/1025	18-20.6.03	"	25
03/1028	25-27.6.03	"	26
03/1242	4-6.7.03	"	27
03/1244	9-11.7.03	"	28
03/1247	16-18.7.03	"	29
03/1250	23-25.7.03	"	30
03/1254	1-3.8.03	"	31
03/1256	6-8.8.03	"	32
03/1259	13-15.8.03	"	33
03/1262	20-22.8.03	"	34
03/1265	27-29.8.03	"	35
03/1516	3-5.9.03	"	36



03/1519	10-12.9.03	Luft	37
03/1522	17-19.9.03	"	38
03/1525	24-26.9.03	"	39
03/1527	29.9-1.10.03	"	40
03/1756	8-10.10.03	"	41
03/1758	13-16.10.03	"	42
03/1761	20-22.10.03	"	43
03/1765	29-31.10.03	"	44
03/1768	5-7.11.03	"	45
04/106	12-14.11.03	"	46
04/109	19-21.11.03	"	47
04/112	26-28.11.03	"	48
04/115	3-5.12.03	"	49
04/118	10-12.12.03	"	50
04/121	17-19.12.03	"	51
04/124	24-26.12.03	"	52
04/127	31.12.03-2.1.04	"	53

Analyser:

Utført av: Norsk institutt for luftforskning
Postboks 100
N-2027 KJELLER

Målemetode: NILU-O-2 ("Bestemmelse av tungflyktige persistente organiske forbindelser – pesticider og PCB'er")

Kommentarer:

Godkjenning: Kjeller, 30. april 2004

Ole-Anders Braathen

Ole-Anders Braathen
Avd.direktør, Kjemisk analyse

Vedlegg: 55 U-82, MC-5 og MC-7 analyser: 2 sider
Målerapporten og vedleggene omfatter totalt 4 sider

Måleresultatene gjelder bare de prøvene som er analysert. Denne rapporten skal ikke gjengis i utdrag, uten skriftlig godkjenning fra laboratoriet.

Results of U-82, MC-5 and MC-7



Encl. to measuring report : O-2558
 Customer : Amap 03
 Project : O-93062
 Sample type : Luft
 Concentration units : pg/m³

Kjeller, 22.04.04

Week no.	NILU-Sample number	Customers sample ID	Sample amount m ³	Data files	U-82	MC-5	MC-7
1	03/44	30.12.02-1.1.03	1166	PA-6691.D	< 0,01	< 0,01	< 0,01
1	03/296	1-3.1.03	1150	PA_6838.D	< 0,01	< 0,01	< 0,01
2	03/298	6-8.1.03	1154	PA_6839.D	< 0,01	< 0,01	< 0,01
3	03/301	13-15.1.03	1102	PA_6840.D	< 0,01	< 0,01	< 0,01
4	03/304	20-22.1.03	1146	PA_6842.D	< 0,01	< 0,01	< 0,01
5	03/308	29-31.1.03	1152	PA_6843.D	< 0,01	< 0,01	< 0,01
6	03/310	3-5.2.03	1162	PA_6844.D	< 0,01	< 0,01	< 0,01
7	03/313	10-12.2.03	1125	PA_6845.D	< 0,01	< 0,01	< 0,01
7	03/315	14-16.2.03	1220	PA_6918.D	< 0,01	< 0,01	< 0,01
9	03/320	26-28.2.03	1249	PA_6919.D	< 0,01	< 0,01	< 0,01
10	03/463	3-5.3.03	1140	PA_6989.D	< 0,03	< 0,03	< 0,03
11	03/466	10-12.3.03	1159	PA_6990.D	< 0,03	< 0,03	< 0,03
12	03/469	17-19.3.03	1133	PA_6992.D	< 0,05	< 0,05	< 0,05
13	03/473	26-28.3.03	1058	PA_6993.D	< 0,03	< 0,03	< 0,03
14	03/476	2-4.4.03	1096	PA_6994.D	< 0,03	< 0,03	< 0,03
15	03/478	7-9.4.03	1174	PA_6995.D	< 0,03	< 0,03	< 0,03
16	03/481	14-16.4.03	1063	PA_6996.D	< 0,03	< 0,03	< 0,03
16/17	03/834	18-22.4.03	2298	PA_7153.D	< 0,01	< 0,01	< 0,01
17	03/836	25-27.4.03	1207	PA_7154.D	< 0,01	< 0,01	< 0,01
18	03/838	30.4-2.5.03	1145	PA_7155.D	< 0,01	< 0,01	< 0,01
19	03/840	5-7.5.03	1130	PA_7156.D	0,01	< 0,01	< 0,01
20	03/843	12-14.5.03	1156	PA_7157.D	< 0,01	< 0,01	< 0,01
21	03/846	19-21.5.03	1140	PA_7159.D	< 0,01	< 0,01	< 0,01
22	03/849	26-28.5.03	1130	PA_7160.D	< 0,01	< 0,01	< 0,01
23	03/1019	4-6.6.03	1176	PA_7161.D	< 0,01	< 0,01	< 0,01
24	03/1022	11-13.6.03	1135	PA_7162.D	< 0,01	< 0,01	< 0,01
25	03/1025	18-20.6.03	1169	PA_7163.D	< 0,01	< 0,01	< 0,01
26	03/1028	25-27.6.03	1176	PA_7164.D	< 0,01	< 0,01	< 0,01
27	03/1242	4-6.7.03	1188	PA_7603.D	< 0,01	< 0,01	< 0,01
28	03/1244	9-11.7.03	1147	PA_7604.D	< 0,01	< 0,01	< 0,01

Based on internal standard 13C-PCB-118.

< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value.

1. Versjon 09.05.2003 GSK

Results of U-82, MC-5 and MC-7

Encl. to measuring report : O-2558
 Customer : Amap 03
 Project : O-93062
 Sample type : Luft
 Concentration units : pg/m3

Kjeller, 22.04.04

Week no.	NILU-Sample number	Customers sample ID	Sample amount m ³	Data files	U-82	MC-5	MC-7
29	03/1247	16-18.7.03	1132	PA_7605.D	< 0,01	< 0,01	< 0,01
30	03/1250	23-25.7.03	1140	PA_7607.D	< 0,01	< 0,01	< 0,01
31	03/1254	1-3.8.03	1193	PA_7608.D	< 0,01	< 0,01	< 0,01
32	03/1256	6-8.8.03	1135	PA_7609.D	< 0,01	< 0,01	< 0,01
33	03/1259	13-15.8.03	1178	PA_7610.D	< 0,01	< 0,01	< 0,01
34	03/1262	20-22.8.03	1154	PA_7611.D	< 0,01	< 0,01	< 0,01
35	03/1265	27-29.8.03	1166	PA_7612.D	< 0,01	< 0,01	< 0,01
36	03/1516	3-5.9.03	1171	PA_7614.D	< 0,01	< 0,01	< 0,01
37	03/1519	10-12.9.03	1147	PA_7615.D	< 0,01	< 0,01	< 0,01
38	03/1522	17-19.9.03	1140	PA_7616.D	< 0,01	< 0,01	< 0,01
39	03/1525	24-26.9.03	1220	PA_7617.D	< 0,01	< 0,01	< 0,01
40	03/1527	29.9-1.10.03	1171	PA_7618.D	< 0,01	< 0,01	< 0,01
41	03/1756	8-10.10.03	1161	PA_7816.D	< 0,01	< 0,01	< 0,01
42	03/1758	13-16.10.03	1670	PA_7817.D	< 0,01	< 0,01	< 0,01
43	03/1761	20-22.10.03	1188	PA_7818.D	< 0,01	< 0,01	< 0,01
44	03/1765	29-31.10.03	1135	PA_7819.D	< 0,01	< 0,01	< 0,01
45	03/1768	5-7.11.03	1111	PA_7821.D	< 0,01	< 0,01	< 0,01
46	04/106	12-14.11.03	1169	PA_7822.D	< 0,01	< 0,01	< 0,01
47	04/109	19-21.11.03	1133	PA_7824.D	< 0,01	< 0,01	< 0,01
48	04/112	26-28.11.03	1126	PA_7825.D	< 0,01	< 0,01	< 0,01
49	04/115	3-5.12.03	1193	PA_7827.D	< 0,01	< 0,01	< 0,01
50	04/118	10-12.12.03	1083	PA_7828.D	< 0,01	< 0,01	< 0,01
51	04/121	17-19.12.03	1130	PA_7829.D	< 0,01	< 0,01	< 0,01
52	04/124	24-26.12.03	1224	PA_7830.D	< 0,01	< 0,01	< 0,01
53	04/127	31.12.03-2.1.04	1180	PA_7831.D	< 0,01	< 0,01	< 0,01

Based on internal standard 13C-PCB-118.

< : Lower than detection limit at signal-to-noise 3 to 1

i : Isotope ratio deviates more than 20 % from theoretical value.

Vedlegg 11

Organiske forbindelser i luft i Ny-Ålesund (O-2083)

~~344~~

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Målerapport nr. O-2083

Oppdragsgiver: Statens forurensningstilsyn (SFT)
Postboks 8100 DEP
0032 OSLO

Prosjekt nr.: O-93062

Prøvetaking:

Sted: Ny-Ålesund
Ansvar: NILU/Norsk Polarinstitut
Kommentar:

Prøveinformasjon:

NILU prøvenr.	Kundens prøvermerking	Prøvetype	Prøven mottatt	Prøven analysert
03/297	03-05.01.03, 1012-1314, 160-158	Luft	10.03.03	07.04-04.08.03
03/299	08-10.01.03, 0858-0903, 160-160	"	"	10.04-04.08.03
03/302	15-17.01.03, 0838-0847, 160-160	"	"	"
03/305	22-24.01.03, 0917-1058, 160-160	"	"	"
03/309	31.01-02.02.03, 0820-1006, 160-159	"	"	"
03/311	05-07.02.03, 0855-0805, 160-153	"	"	22.04-04.08.03
03/314	12-14.02.03, 0837-0940, 160-156	"	"	"
03/317	19-21.02.03, 1238-1035, 160-170	"	"	"
03/321	28.02-02.03.03, 0903-1007, 160-155	"	"	"
03/465	08-10.03.03, 0722-0824, 160-160	"	30.04.03	23.05-04.08.03
03/467	12-14.03.03, 0840-0839, 160-154	"	"	"
03/470	19-21.03.03, 0917-0821, 160-144	"	"	"
03/474	28-30.03.03, 0922-1250, 160-160	"	"	27.05-04.08.03
03/477	4-6.04.03, 0743-0717, 160-157	"	"	"
03/479	9-11.04.03, 0830-0913, 160-150	"	"	"
03/385	23-25.04.03 0719-0715, 160-154	"	04.06.03	27.08 - 06.11.03
03/837	28-30.04.03 0811-0742, 160-160	"	"	"
03/839	02-04.05.03 0710-0952, 160-154	"	"	"
03/841	07-09.05.03 0704-0732, 160-156	"	"	29.08 - 06.11.03
03/844	14-16.05.03 0908-0937, 160-168	"	"	"
03/847	21-23.05.03 0737-0712, 160-160	"	"	"
03/850	28-30.05.03 0656-0849, 160-163	"	"	"
03/1018	02-04.06.03 0716-0708, 160-158	"	14.07.03	02.09 - 06.11.03
03/1021	09-11.06.03 0943-0855, 160-160	"	"	"
03/1024	16-18.06.03 0748-0655, 160-163	"	"	"
03/1027	23-25.06.03 0732-0719, 160-162	"	"	"
03/1030	30.06 - 02.07.03 0727-0812, 160-162	"	"	04.09 - 06.11.03
03/1243	07-09.07.03 0727-0754, 160-160	"	08.09.03	13.10 - 24.03.04
03/1246	14-16.07.03 0915-0844, 160-159	"	"	"
03/1249	21-23.07.03 0800-0752, 160-163	"	"	"
03/1253	30.07-01.08.03 0722-0728, 160-159	"	"	15.10 - 24.03.04
03/1255	04-06.08.03 0733-0747, 160-159	"	"	"
03/1258	11-13.08.03 0822-0732, 160-156	"	"	"
03/1261	18-20.08.03 0745-0754, 160-160	"	"	"
03/1264	25-27.08.03 0823-0700, 160-156	"	"	17.10 - 24.03.04
03/1515	01-03.09.03 0737-0753, 160-153	"	22.10.03	28.10 - 24.03.04
03/1518	08-10.09.03 0743-0651, 160-160	"	"	"
03/1521	15-17.09.03 0656-0803, 160-161	"	"	"

03/1524	22-24.09.03 0752-0728, 160-159	Luft	22.10.03	30.10 – 24.03.04
03/1526	26-28.09.03 1010-1147, 160-155	"	"	"
03/1529	06-08.10.03 0845-0727, 160-163	"	"	"
03/1760	17-19.10.03 0748-0755, 160-160	"	"	"
03/1762	22-24.10.03 0853-0846, 160-160	"	24.11.03	25.02 – 24.03.04
03/1764	27-29.10.03 1241-0944, 160-152	"	"	"
03/1767	03-05.11.03 1410-1016, 160-160	"	"	27.02 – 24.03.04
04/105	10-12.11.03 0935-0906, 160-158	"	"	"
04/108	17-19.11.03 0846-0834, 160-158	"	19.01.04	27.02 – 24.03.04
04/111	24-26.11.03 0825-0846, 160-161	"	"	"
04/114	01-03.12.03 0952-0848, 160-150	"	"	02.03 – 24.03.04
04/117	08-10.12.03 1423-1019, 160-160	"	"	"
04/120	15-17.12.03 1017-0934, 160-159	"	"	"
04/123	22-24.12.03 0858-0813, 160-158	"	"	"
04/126	29-31.12.03 0837-0743, 160-157	"	"	04.03 – 24.03.04

Analyser:

Utført av: Norsk institutt for luftforskning
Postboks 100
N-2027 KJELLER

Målemetode: NILU-O-3 ("Bestemmelse av polysykliske aromatiske hydrokarboner")

Måleusikkerhet: $\pm 25 \%$

Kommentarer:

Godkjenning: Kjeller, 25. mars 2004

Ole-Anders Braathen

Ole-Anders Braathen
Avd.direktør, Kjemisk analyse

Vedlegg: 53 PAH-analyser: 53 sider
Målerapporten og vedleggene omfatter totalt 55 sider

Måleresultatene gjelder bare de prøvene som er analysert. Denne rapporten skal ikke gjengis i utdrag, uten skriftlig godkjenning fra laboratoriet.

Results of PAH Analysis



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Encl. to measuring report: O-2083
 NILU sample number: 03/297
 Customer: Amap 03
 Customers sample ID: 3-5.1.03 1012-1314
 : 160-158
 Sample type: Luft
 Sample amount: 1221 m3
 Concentration unit: pg/m3
 Data files: TA_6917.D

Kjeller, 01.08.03

Component:	Concentration pg/m3	Recovery %	
Naphtalene *	539 b		
2-Methylnaphtalene	118 b	32	
1-Methylnaphtalene	118 b		
Biphenyl	880		
Acenaphthylene *	2,00 b		
Acenaphtene *	3,00 b	38	
Dibenzofuran	928		
Fluorene *	284		
Dibenzothiophene	16,0		
Phenanthrene *	25,0 b	58	
Antrachene *	1,00 b		
3-Methylphenanthrene	2,00 b		
2-Methylphenanthrene	3,00 b		
2-Methylantracene	< 1,00		
9-Methylphenanthrene	2,00 b		
1-Methylphenanthrene	2,00 b		
Fluoranthene *	13,0 b		
Pyrene *	7,00 b	72	
Benzo(a)fluorene	2,00 b		
Retene	5,00 b		
Benzo(b)fluorene	1,00		
Benzo(ghi)fluoranthene	2,00 b	61	
Cyclopenta(cd)pyrene	< 1,00		
Benz(a)anthracene *	1,00 b		
Chrysene */Triphenylene	4,00		
Benzo(b */j/k *)fluoranthenes	6,00	116	
Benzo(a)fluoranthene	< 1,00		
Benzo(e)pyrene	2,00		
Benzo(a)pyrene *	< 1,00		
Perylene	< 1,00		
Indeno(1,2,3-cd)pyrene *	1,00	83	
Dibenz(ac/ah *)anthracene	< 1,00		
Benzo(ghi)perylene *	3,00		
Anthanthrene	< 1,00		
Coronene	< 1,00		
Dibenzo(ae)pyrene	< 1,00		
Dibenzo(ai)pyrene	< 1,00		
Dibenzo(ah)pyrene	< 1,00		
Sum bicyclic PAH:	1 655		
Sum 3-7 ring PAH:	1 326		
Sum all:	2 981		
Sum 16 EPA PAH *	891		

<: Lower than detection limit at signal:noise 3:1

- (i): Possible interference
- (s): Saturated signal
- (b): Lower than 10 times method blank
- (g): Recovery is not according to NILUs quality criteria

Results of PAH Analysis



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Encl. to measuring report: O-2083
 NILU sample number: 03/299
 Customer: Amap 03
 Customers sample ID: 8-10.1.03 0858-0903
 : 160-160
 Sample type: Luft
 Sample amount: 1159 m3
 Concentration unit: pg/m3
 Data files: TA_6918.D

Kjeller, 01.08.03

Component:	Concentration pg/m3	Recovery %
Naphtalene *	1 166 b	
2-Methylnaphtalene	265 b	26
1-Methylnaphtalene	216 b	
Biphenyl	1 186	
Acenaphthylene *	5,00 b	
Acenaphtene *	8,00 b	32
Dibenzofuran	1 152	
Fluorene *	455	
Dibenzothiophene	27,0	
Phenanthrene *	161	
Antrachene *	3,00 b	45
3-Methylphenanthrene	9,00 b	
2-Methylphenanthrene	13,0 b	
2-Methylanthracene	< 1,00	
9-Methylphenanthrene	7,00 b	
1-Methylphenanthrene	8,00 b	
Fluoranthene *	93,0	
Pyrene *	51,0	62
Benzo(a)fluorene	4,00 i,b	
Retene	8,00 b	
Benzo(b)fluorene	3,00 i	
Benzo(ghi)fluoranthene	15,0	
Cyclopenta(cd)pyrene	1,00	
Benz(a)anthracene *	8,00	37
Chrysene */Triphenylene	37,0	
Benzo(b */j/k *)fluoranthenes	29,0	
Benzo(a)fluoranthene	< 1,00	
Benzo(e)pyrene	11,0	114
Benzo(a)pyrene *	< 1,00	
Perylene	< 1,00	
Indeno(1,2,3-cd)pyrene *	3,00	
Dibenz(ac/ah *)anthracene	< 1,00	
Benzo(ghi)perylene *	< 1,00	70
Anthanthrene	< 1,00	
Coronene	< 1,00	
Dibenzo(ae)pyrene	< 1,00	
Dibenzo(ai)pyrene	< 1,00	
Dibenzo(ah)pyrene	< 1,00	
Sum bicyclic PAH:	2 833	
Sum 3-7 ring PAH:	2 122	
Sum all:	4 955	
Sum 16 EPA PAH *	2 022	

<: Lower than detection limit at signal:noise 3:1

(i): Possible interference

(s): Saturated signal

(b): Lower than 10 times method blank

(g): Recovery is not according to NILUs quality criteria

2. Versjon 24.09.01 GSK

Results of PAH Analysis

343



Encl. to measuring report: O-2083
 NILU sample number: 03/302
 Customer: Amap 03
 Customers sample ID: 15-17.1.03 0838-0847
 : 160-160
 Sample type: Luft
 Sample amount: 1162 m3
 Concentration unit: pg/m3
 Data files: TA_6919.D

Kjeller, 04.08.2003

Component:	Concentration pg/m3	Recovery %	
Naphtalene *	8 484		
2-Methylnaphtalene	1 516	27	
1-Methylnaphtalene	1 524		
Biphenyl	3 049		
Acenaphthylene *	22,0 b	33	
Acenaphtene *	25,0 b		
Dibenzofuran	3 111		
Fluorene *	1 393		
Dibenzothiophene	49,0	56	
Phenanthrene *	500		
Antrachene *	13,0		
3-Methylphenanthrene	25,0		
2-Methylphenanthrene	37,0		
2-Methylanthracene	2,00		
9-Methylphenanthrene	19,0		
1-Methylphenanthrene	29,0		
Fluoranthene *	345		73
Pyrene *	257		
Benzo(a)fluorene	23,0 i,b		
Retene	26,0		
Benzo(b)fluorene	15,0 i		
Benzo(ghi)fluoranthene	54,0	75	
Cyclopenta(cd)pyrene	14,0		
Benz(a)anthracene *	59,0		
Chrysene */Triphenylene	146		
Benzo(b */j/k *)fluoranthenes	230		
Benzo(a)fluoranthene	9,00	102	
Benzo(e)pyrene	69,0		
Benzo(a)pyrene *	46,0		
Perylene	8,00		
Indeno(1,2,3-cd)pyrene *	72,0	109	
Dibenz(ac/ah *)anthracene	5,00		
Benzo(ghi)perylene *	70,0		
Anthanthrene	7,00		
Coronene	24,0		
Dibenzo(ae)pyrene	1,00		
Dibenzo(ai)pyrene	1,00		
Dibenzo(ah)pyrene	1,00		
Sum bicyclic PAH:	14 573		
Sum 3-7 ring PAH:	6 707		
Sum all:	21 280		
Sum 16 EPA PAH *	11 667		

<: Lower than detection limit at signal:noise 3:1
 (i): Possible interference
 (s): Saturated signal
 (b): Lower than 10 times method blank
 (g): Recovery is not according to NILUs quality criteria

Results of PAH Analysis



344

Encl. to measuring report: O-2083
 NILU sample number: 03/305
 Customer: Amap 03
 Customers sample ID: 22-24.1.03 0917-1058
 : 160-160
 Sample type: Luft
 Sample amount: 1198 m3
 Concentration unit: pg/m3
 Data files: TA_6920.D

Kjeller, 04.08.2003

Component:	Concentration pg/m3	Recovery %
Naphtalene *	2 890	
2-Methylnaphtalene	459 b	30
1-Methylnaphtalene	430 b	
Biphenyl	1 610	
Acenaphthylene *	6,00 b	
Acenaphtene *	12,0 b	36
Dibenzofuran	1 850	
Fluorene *	795	
Dibenzothiophene	28,0	
Phenanthrene *	168	
Antrachene *	3,00 b	56
3-Methylphenanthrene	8,00 b	
2-Methylphenanthrene	13,0 b	
2-Methylanthracene	1,00 b	
9-Methylphenanthrene	5,00 b	
1-Methylphenanthrene	8,00 b	
Fluoranthene *	95,0	
Pyrene *	57,0	75
Benzo(a)fluorene	9,00 i,b	
Retene	7,00 b	
Benzo(b)fluorene	4,00	
Benzo(ghi)fluoranthene	11,0	
Cyclopenta(cd)pyrene	4,00	
Benz(a)anthracene *	14,0	87
Chrysene */Triphenylene	36,0	
Benzo(b */j/k *)fluoranthenes	60,0	
Benzo(a)fluoranthene	3,00	
Benzo(e)pyrene	19,0	102
Benzo(a)pyrene *	12,0	
Perylene	3,00	
Indeno(1,2,3-cd)pyrene *	17,0	
Dibenz(ac/ah *)anthracene	1,00	
Benzo(ghi)perylene *	18,0	125
Anthanthrene	2,00	
Coronene	6,00	
Dibenzo(ae)pyrene	< 1,00	
Dibenzo(ai)pyrene	< 1,00	
Dibenzo(ah)pyrene	< 1,00	
Sum bicyclic PAH:	5 389	
Sum 3-7 ring PAH:	3 278	
Sum all:	8 667	
Sum 16 EPA PAH *	4 184	

<: Lower than detection limit at signal:noise 3:1
 (i): Possible interference
 (s): Saturated signal
 (b): Lower than 10 times method blank
 (g): Recovery is not according to NILUs quality criteria

Results of PAH Analysis



345

Encl. to measuring report: O-2083
 NILU sample number: 03/309
 Customer: Amap 03
 Customers sample ID: 31.1-2.2.03 0820-1006
 : 160-159
 Sample type: Luft
 Sample amount: 1198 m3
 Concentration unit: pg/m3
 Data files: TA_6923.D

Kjeller, 04.08.2003

Component:	Concentration pg/m3	Recovery %	
Naphtalene *	4 170		
2-Methylnaphtalene	1 199	28	
1-Methylnaphtalene	1 157		
Biphenyl	3 439		
Acenaphthylene *	7,00 b		
Acenaphtene *	18,0 b	33	
Dibenzofuran	3 764		
Fluorene *	1 744		
Dibenzothiophene	57,0		
Phenanthrene *	228	58	
Antrachene *	7,00		
3-Methylphenanthrene	10,0 b		
2-Methylphenanthrene	15,0 b		
2-Methylanthracene	1,00 b		
9-Methylphenanthrene	7,00 b		
1-Methylphenanthrene	12,0 b		
Fluoranthene *	169		74
Pyrene *	113		
Benzo(a)fluorene	11,0 i,b		
Retene	9,00 b		
Benzo(b)fluorene	7,00 i		
Benzo(ghi)fluoranthene	23,0	77	
Cyclopenta(cd)pyrene	9,00		
Benz(a)anthracene *	26,0		
Chrysene */Triphenylene	68,0		
Benzo(b */j/k *)fluoranthenes	117		
Benzo(a)fluoranthene	7,00	137 g	
Benzo(e)pyrene	36,0		
Benzo(a)pyrene *	25,0		
Perylene	7,00		
Indeno(1,2,3-cd)pyrene *	27,0	130	
Dibenz(ac/ah *)anthracene	2,00		
Benzo(ghi)perylene *	35,0		
Anthanthrene	4,00		
Coronene	3,00		
Dibenzo(ae)pyrene	<		
Dibenzo(ai)pyrene	<		
Dibenzo(ah)pyrene	<		
Sum bicyclic PAH:	9 965		
Sum 3-7 ring PAH:	6 571		
Sum all:	16 536		
Sum 16 EPA PAH *	6 756		

<: Lower than detection limit at signal:noise 3:1
 (i): Possible interference
 (s): Saturated signal
 (b): Lower than 10 times method blank
 (g): Recovery is not according to NILUs quality criteria

Results of PAH Analysis



346

Encl. to measuring report: O-2083
 NILU sample number: 03/311
 Customer: Amap 03
 Customers sample ID: 5-7.2.03 0855-0805
 : 160-153
 Sample type: Luft
 Sample amount: 1114 m3
 Concentration unit: pg/m3
 Data files: TA_6924.D

Kjeller, 04.08.2003

Component:	Concentration pg/m3	Recovery %
Naphtalene *	1 241 b	32
2-Methylnaphtalene	321 b	
1-Methylnaphtalene	265 b	
Biphenyl	1 386	
Acenaphthylene *	3,00 b	39
Acenaphtene *	13,0 b	
Dibenzofuran	1 906	
Fluorene *	888	
Dibenzothiophene	30,0	55
Phenanthrene *	198	
Antrachene *	3,00 b	
3-Methylphenanthrene	8,00 b	
2-Methylphenanthrene	14,0 b	
2-Methylanthracene	1,00 b	
9-Methylphenanthrene	6,00 b	
1-Methylphenanthrene	8,00 b	
Fluoranthene *	116	
Pyrene *	44,0	
Benzo(a)fluorene	< 1,00	
Retene	6,00 b	
Benzo(b)fluorene	3,00 b,i	71
Benzo(ghi)fluoranthene	10,0	
Cyclopenta(cd)pyrene	1,00	
Benz(a)anthracene *	8,00	
Chrysene */Triphenylene	27,0	
Benzo(b */j/k *)fluoranthenes	35,0	111
Benzo(a)fluoranthene	< 1,00	
Benzo(e)pyrene	11,0	
Benzo(a)pyrene *	6,00	
Perylene	1,00	107
Indeno(1,2,3-cd)pyrene *	7,00	
Dibenz(ac/ah *)anthracene	< 1,00	
Benzo(ghi)perylene *	11,0	
Anthanthrene	< 1,00	
Coronene	3,00	
Dibenzo(ae)pyrene	< 1,00	
Dibenzo(ai)pyrene	< 1,00	
Dibenzo(ah)pyrene	< 1,00	
Sum bicyclic PAH:	3 213	
Sum 3-7 ring PAH:	3 374	
Sum all:	6 587	
Sum 16 EPA PAH *	2 601	

<: Lower than detection limit at signal:noise 3:1
 (i): Possible interference
 (s): Saturated signal
 (b): Lower than 10 times method blank
 (g): Recovery is not according to NILUs quality criteria

Results of PAH Analysis



347

Encl. to measuring report: O-2083
 NILU sample number: 03/314
 Customer: Amap 03
 Customers sample ID: 12-14.2.03 0837-0940
 : 160-156
 Sample type: Luft
 Sample amount: 1169 m3
 Concentration unit: pg/m3
 Data files: TA_6925.D

Kjeller, 04.08.2003

Component:	Concentration pg/m3	Recovery %
Naphtalene *	640 b	
2-Methylnaphtalene	141 b	29
1-Methylnaphtalene	124 b	
Biphenyl	986	
Acenaphthylene *	2,00 b	
Acenaphthene *	7,00 b	35
Dibenzofuran	1 496	
Fluorene *	536	
Dibenzothiophene	24,0	
Phenanthrene *	93,0 b	
Antrachene *	1,00 b	54
3-Methylphenanthrene	5,00 b	
2-Methylphenanthrene	8,00 b	
2-Methylanthracene	< 1,00	
9-Methylphenanthrene	4,00 b	
1-Methylphenanthrene	5,00 b	
Fluoranthene *	65,0	
Pyrene *	31,0 b	72
Benzo(a)fluorene	2,00 i,b	
Retene	4,00 b	
Benzo(b)fluorene	2,00 i	
Benzo(ghi)fluoranthene	6,00	
Cyclopenta(cd)pyrene	1,00	
Benz(a)anthracene *	5,00	69
Chrysene */Triphenylene	20,0	
Benzo(b */j/k *)fluoranthenes	28,0	
Benzo(a)fluoranthene	< 1,00	
Benzo(e)pyrene	9,00	110
Benzo(a)pyrene *	4,00	
Perylene	1,00	
Indeno(1,2,3-cd)pyrene *	5,00	
Dibenz(ac/ah *)anthracene	1,00	
Benzo(ghi)perylene *	8,00	102
Anthanthrene	< 1,00	
Coronene	3,00	
Dibenzo(ae)pyrene	< 1,00	
Dibenzo(ai)pyrene	< 1,00	
Dibenzo(ah)pyrene	< 1,00	
Sum bicyclic PAH:	1 891	
Sum 3-7 ring PAH:	2 382	
Sum all:	4 273	
Sum 16 EPA PAH *	1 446	

<: Lower than detection limit at signal:noise 3:1
 (i): Possible interference
 (s): Saturated signal
 (b): Lower than 10 times method blank
 (g): Recovery is not according to NILUs quality criteria

2. Versjon 24.09.01 GSK

Results of PAH Analysis



348

Encl. to measuring report: O-2083
 NILU sample number: 03/317
 Customer: Amap 03
 Customers sample ID: 19-21.2.03 1238-1035
 : 160-170
 Sample type: Luft
 Sample amount: 1143 m3
 Concentration unit: pg/m3
 Data files: TA_6926.D

Kjeller, 04.08.2003

Component:	Concentration pg/m3	Recovery %
Naphtalene *	2 711	
2-Methylnaphtalene	249 b	32
1-Methylnaphtalene	287 b	
Biphenyl	1 301	
Acenaphthylene *	6,00 b	
Acenaphtene *	6,00 b	40
Dibenzofuran	1 380	
Fluorene *	490	
Dibenzothiophene	14,0	
Phenanthrene *	129	
Antrachene *	7,00	56
3-Methylphenanthrene	9,00 b	
2-Methylphenanthrene	15,0 b	
2-Methylanthracene	1,00 b	
9-Methylphenanthrene	8,00 b	
1-Methylphenanthrene	10,0 b	
Fluoranthene *	66,0	
Pyrene *	45,0	73
Benzo(a)fluorene	1,00 i,b	
Retene	16,0 b	
Benzo(b)fluorene	4,00 i	
Benzo(ghi)fluoranthene	8,00	
Cyclopenta(cd)pyrene	1,00	
Benz(a)anthracene *	6,00	58
Chrysene */Triphenylene	19,0	
Benzo(b */j/k *)fluoranthenes	19,0	
Benzo(a)fluoranthene	< 1,00	
Benzo(e)pyrene	6,00	87
Benzo(a)pyrene *	2,00	
Perylene	< 1,00	
Indeno(1,2,3-cd)pyrene *	3,00	
Dibenz(ac/ah *)anthracene	< 1,00	
Benzo(ghi)perylene *	5,00	82
Anthanthrene	< 1,00	
Coronene	< 1,00	
Dibenzo(ae)pyrene	< 1,00	
Dibenzo(ai)pyrene	< 1,00	
Dibenzo(ah)pyrene	< 1,00	
Sum bicyclic PAH:	4 548	
Sum 3-7 ring PAH:	2 284	
Sum all:	6 832	
Sum 16 EPA PAH *	3 515	

<: Lower than detection limit at signal:noise 3:1
 (i): Possible interference
 (s): Saturated signal
 (b): Lower than 10 times method blank
 (g): Recovery is not according to NILUs quality criteria

Results of PAH Analysis

Encl. to measuring report: O-2083
 NILU sample number: 03/321
 Customer: Amap 03
 Customers sample ID: 28.2-2.3.03 0903-1007
 : 160-155
 Sample type: Luft
 Sample amount: 1166 m3
 Concentration unit: pg/m3
 Data files: TA_6927.D

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Kjeller, 01.08.03

Component:	Concentration pg/m3	Recovery %	
Naphtalene *	575 b	33	
2-Methylnaphtalene	86,0 b		
1-Methylnaphtalene	91,0 b		
Biphenyl	1 017		
Acenaphthylene *	2,00 b	40	
Acenaphtene *	3,00 b		
Dibenzofuran	1 169		
Fluorene *	307		
Dibenzothiophene	13,0	60	
Phenanthrene *	71,0 b		
Antrachene *	2,00 b		
3-Methylphenanthrene	7,00 b		
2-Methylphenanthrene	10,0 b		
2-Methylanthracene	1,00		
9-Methylphenanthrene	6,00 b		
1-Methylphenanthrene	6,00 b		
Fluoranthene *	49,0		75
Pyrene *	31,0 b		
Benzo(a)fluorene	2,00 i,b		
Retene	10,0 b		
Benzo(b)fluorene	2,00 i	67	
Benzo(ghi)fluoranthene	5,00		
Cyclopenta(cd)pyrene	1,00		
Benz(a)anthracene *	3,00		
Chrysene */Triphenylene	13,0	94	
Benzo(b */j/k *)fluoranthenes	17,0		
Benzo(a)fluoranthene	1,00		
Benzo(e)pyrene	5,00		
Benzo(a)pyrene *	2,00	86	
Perylene	1,00		
Indeno(1,2,3-cd)pyrene *	3,00		
Dibenz(ac/ah *)anthracene	1,00		
Benzo(ghi)perylene *	5,00	86	
Anthanthrene	1,00		
Coronene	1,00		
Dibenzo(ae)pyrene	1,00		
Dibenzo(ai)pyrene	1,00		
Dibenzo(ah)pyrene	1,00		
Sum bicyclic PAH:	1 769		
Sum 3-7 ring PAH:	1 753		
Sum all:	3 522		
Sum 16 EPA PAH *	1 084		

<: Lower than detection limit at signal:noise 3:1
 (i): Possible interference
 (s): Saturated signal
 (b): Lower than 10 times method blank
 (g): Recovery is not according to NILUs quality criteria

Results of PAH Analysis



350

Encl. to measuring report: O-2083
 NILU sample number: 03/465
 Customer: Amap 03
 Customers sample ID: 8-10.3.03 0722-0824
 : 160-160
 Sample type: Luft
 Sample amount: 1181 m3
 Concentration unit: pg/m3
 Data files: TA_7123.D

Kjeller, 04.08.2003

Component:	Concentration pg/m3	Recovery %
Naphtalene *	1 007 b	
2-Methylnaphtalene	142 b	37
1-Methylnaphtalene	131 b	
Biphenyl	1 221	
Acenaphthylene *	3,00 b	
Acenaphtene *	7,00 b	43
Dibenzofuran	1 632	
Fluorene *	377	
Dibenzothiophene	14,0	
Phenanthrene *	139	
Antrachene *	2,00 b	62
3-Methylphenanthrene	6,00 b	
2-Methylphenanthrene	10,0 b	
2-Methylanthracene	<	
9-Methylphenanthrene	1,00	
1-Methylphenanthrene	5,00 b	
Fluoranthene *	6,00 b	
Pyrene *	64,0	
Benzo(a)fluorene	39,0	82
Retene	9,00 i,b	
Benzo(b)fluorene	4,00 b	
Benzo(ghi)fluoranthene	1,00 i	
Cyclopenta(cd)pyrene	8,00	
Benz(a)anthracene *	1,00	
Chrysene */Triphenylene	4,00	67
Benzo(b */j/k *)fluoranthenes	26,0	
Benzo(a)fluoranthene	26,0	
Benzo(e)pyrene	<	
Benzo(a)pyrene *	1,00	121
Perylene	8,00	
Indeno(1,2,3-cd)pyrene *	7,00	
Dibenz(ac/ah *)anthracene	4,00	
Benzo(ghi)perylene *	<	
Anthanthrene	1,00	78
Coronene	10,0	
Dibenzo(ae)pyrene	1,00	
Dibenzo(ai)pyrene	2,00	
Dibenzo(ah)pyrene	1,00	
Dibenzo(ah)pyrene	<	
Dibenzo(ah)pyrene	1,00	
Sum bicyclic PAH:	2 501	
Sum 3-7 ring PAH:	2 422	
Sum all:	4 923	
Sum 16 EPA PAH *	1 710	

<: Lower than detection limit at signal:noise 3:1
 (i): Possible interference
 (s): Saturated signal
 (b): Lower than 10 times method blank
 (g): Recovery is not according to NILUs quality criteria

2. Versjon 24.09.01 GSK

Results of PAH Analysis



Encl. to measuring report: O-2083
 NILU sample number: 03/467
 Customer: Amap 03
 Customers sample ID: 12-14.3.03 0840-0839
 : 160-154
 Sample type: Luft
 Sample amount: 1135 m3
 Concentration unit: pg/m3
 Data files: TA_7124.D

Kjeller, 04.08.2003

Component:	Concentration pg/m3	Recovery %
Naphtalene *	1 089 b	32
2-Methylnaphtalene	172 b	
1-Methylnaphtalene	167 b	
Biphenyl	1 184	
Acenaphthylene *	7,00 b	38
Acenaphtene *	9,00 b	
Dibenzofuran	1 560	
Fluorene *	391	
Dibenzothiophene	15,0 b	61
Phenanthrene *	137	
Antrachene *	3,00 b	
3-Methylphenanthrene	7,00 b	
2-Methylphenanthrene	9,00 b	
2-Methylantracene	< 1,00	
9-Methylphenanthrene	5,00 b	
1-Methylphenanthrene	6,00 b	
Fluoranthene *	83,0	80
Pyrene *	47,0	
Benzo(a)fluorene	3,00 b,i	
Retene	3,00 b	
Benzo(b)fluorene	2,00 i	
Benzo(ghi)fluoranthene	11,0	85
Cyclopenta(cd)pyrene	2,00	
Benz(a)anthracene *	7,00	
Chrysene */Triphenylene	32,0	
Benzo(b */j/k *)fluoranthenes	48,0	130
Benzo(a)fluoranthene	< 1,00	
Benzo(e)pyrene	12,0	
Benzo(a)pyrene *	5,00	
Perylene	< 1,00	
Indeno(1,2,3-cd)pyrene *	13,0	116
Dibenz(ac/ah *)anthracene	< 1,00	
Benzo(ghi)perylene *	13,0	
Anthanthrene	1,00	
Coronene	3,00	
Dibenzo(ae)pyrene	< 1,00	
Dibenzo(ai)pyrene	< 1,00	
Dibenzo(ah)pyrene	< 1,00	
Sum bicyclic PAH:	2 612	
Sum 3-7 ring PAH:	2 441	
Sum all:	5 053	
Sum 16 EPA PAH *	1 885	

<: Lower than detection limit at signal:noise 3:1
 (i): Possible interference
 (s): Saturated signal
 (b): Lower than 10 times method blank
 (g): Recovery is not according to NILUs quality criteria

Results of PAH Analysis



352

Encl. to measuring report: O-2083
 NILU sample number: 03/470
 Customer: Amap 03
 Customers sample ID: 19-21.3.03 0917-0821
 : 160-144
 Sample type: Luft
 Sample amount: 1079 m3
 Concentration unit: pg/m3
 Data files: TA_7125.D

Kjeller, 04.08.2003

Component:	Concentration pg/m3	Recovery %
Naphtalene *	230 b	
2-Methylnaphtalene	68,0 b	33
1-Methylnaphtalene	45,0 b	
Biphenyl	726	
Acenaphthylene *	5,00 b	
Acenaphtene *	5,00 b	37
Dibenzofuran	1 397	
Fluorene *	261	
Dibenzothiophene	11,0	
Phenanthrene *	76,0 b	
Antrachene *	1,00 b	59
3-Methylphenanthrene	3,00 b	
2-Methylphenanthrene	5,00 b	
2-Methylantracene	<	
9-Methylphenanthrene	1,00	
1-Methylphenanthrene	3,00 b	
Fluoranthene *	3,00 b	
Pyrene *	43,0 b	
Benzo(a)fluorene	23,0 b	73
Retene	<	
Benzo(b)fluorene	1,00	
Benzo(ghi)fluoranthene	3,00 b	
Cyclopenta(cd)pyrene	5,00	
Benz(a)anthracene *	<	
Chrysene */Triphenylene	1,00	80
Benzo(b */j/k *)fluoranthenes	2,00	
Benzo(a)fluoranthene	13,0	
Benzo(e)pyrene	18,0	
Benzo(a)pyrene *	18,0	106
Perylene	5,00	
Indeno(1,2,3-cd)pyrene *	<	
Dibenz(ac/ah *)anthracene	1,00	
Benzo(ghi)perylene *	7,00	92
Anthanthrene	1,00	
Coronene	1,00	
Dibenzo(ae)pyrene	1,00	
Dibenzo(ai)pyrene	<	
Dibenzo(ah)pyrene	<	
Dibenzo(ah)pyrene	<	
Sum bicyclic PAH:	1 069	
Sum 3-7 ring PAH:	1 925	
Sum all:	2 994	
Sum 16 EPA PAH *	692	

<: Lower than detection limit at signal:noise 3:1
 (i): Possible interference
 (s): Saturated signal
 (b): Lower than 10 times method blank
 (g): Recovery is not according to NILUs quality criteria

Results of PAH Analysis

353



Encl. to measuring report: O-2083
 NILU sample number: 03/474
 Customer: Amap 03
 Customers sample ID: 28-30.3.03 0922-1250
 : 160-160
 Sample type: Luft
 Sample amount: 1241 m3
 Concentration unit: pg/m3
 Data files: TA_7128.D

Kjeller, 01.08.03

Component:	Concentration pg/m3	Recovery %
Naphtalene *	424 b	
2-Methylnaphtalene	91,0 b	30
1-Methylnaphtalene	69,0 b	
Biphenyl	800	
Acenaphthylene *	6,00 b	
Acenaphtene *	6,00 b	35
Dibenzofuran	1 198	
Fluorene *	171	
Dibenzothiophene	6,00	
Phenanthrene *	72,0 b	
Antrachene *	3,00 b	56
3-Methylphenanthrene	6,00 b	
2-Methylphenanthrene	9,00 b	
2-Methylanthracene	1,00 b	
9-Methylphenanthrene	5,00 b	
1-Methylphenanthrene	7,00 b	
Fluoranthene *	56,0	
Pyrene *	42,0	78
Benzo(a)fluorene	19,0 i,b	
Retene	12,0 b	
Benzo(b)fluorene	2,00 i	
Benzo(ghi)fluoranthene	6,00	
Cyclopenta(cd)pyrene	< 1,00	
Benz(a)anthracene *	4,00	83
Chrysene */Triphenylene	15,0	
Benzo(b */j/k *)fluoranthenes	19,0	
Benzo(a)fluoranthene	< 1,00	
Benzo(e)pyrene	5,00	141 g
Benzo(a)pyrene *	1,00	
Perylene	< 1,00	
Indeno(1,2,3-cd)pyrene *	4,00	
Dibenz(ac/ah *)anthracene	< 1,00	
Benzo(ghi)perylene *	6,00	116
Anthanthrene	< 1,00	
Coronene	1,00	
Dibenzo(ae)pyrene	< 1,00	
Dibenzo(ai)pyrene	< 1,00	
Dibenzo(ah)pyrene	< 1,00	
Sum bicyclic PAH:	1 384	
Sum 3-7 ring PAH:	1 690	
Sum all:	3 074	
Sum 16 EPA PAH *	830	

<: Lower than detection limit at signal:noise 3:1

(i): Possible interference

(s): Saturated signal

(b): Lower than 10 times method blank

(g): Recovery is not according to NILUs quality criteria

Results of PAH Analysis



354

Encl. to measuring report: O-2083
 NILU sample number: 03/477
 Customer: Amap 03
 Customers sample ID: 4-6.4.03 0743-0717
 : 160-157
 Sample type: Luft
 Sample amount: 1138 m3
 Concentration unit: pg/m3
 Data files: TA_7129.D

Kjeller, 04.08.2003

Component:	Concentration pg/m3	Recovery %	
Naphtalene *	159 b	36	
2-Methylnaphtalene	43,0 b		
1-Methylnaphtalene	29,0 b		
Biphenyl	525		
Acenaphthylene *	2,00 b	41	
Acenaphtene *	4,00 b		
Dibenzofuran	846		
Fluorene *	67,0 b		
Dibenzothiophene	4,00 b	64	
Phenanthrene *	32,0 b		
Antrachene *	1,00 b		
3-Methylphenanthrene	4,00 b		
2-Methylphenanthrene	6,00 b		
2-Methylanthracene	< 1,00		
9-Methylphenanthrene	3,00 b		
1-Methylphenanthrene	4,00 b		
Fluoranthene *	25,0 b		83
Pyrene *	19,0 b		
Benzo(a)fluorene	6,00 i,b		
Retene	7,00 b		
Benzo(b)fluorene	< 1,00	81	
Benzo(ghi)fluoranthene	2,00 b		
Cyclopenta(cd)pyrene	< 1,00		
Benz(a)anthracene *	1,00 b		
Chrysene */Triphenylene	4,00	111	
Benzo(b */j/k *)fluoranthenes	5,00		
Benzo(a)fluoranthene	< 1,00		
Benzo(e)pyrene	2,00		
Benzo(a)pyrene *	< 1,00	94	
Perylene	< 1,00		
Indeno(1,2,3-cd)pyrene *	1,00		
Dibenz(ac/ah *)anthracene	< 1,00		
Benzo(ghi)perylene *	2,00	94	
Anthanthrene	< 1,00		
Coronene	< 1,00		
Dibenzo(ae)pyrene	< 1,00		
Dibenzo(ai)pyrene	< 1,00		
Dibenzo(ah)pyrene	< 1,00		
Sum bicyclic PAH:	756		
Sum 3-7 ring PAH:	1 059		
Sum all:	1 815		
Sum 16 EPA PAH *	324		

<: Lower than detection limit at signal:noise 3:1
 (i): Possible interference
 (s): Saturated signal
 (b): Lower than 10 times method blank
 (g): Recovery is not according to NILUs quality criteria

Results of PAH Analysis



Encl. to measuring report: O-2083
 NILU sample number: 03/479
 Customer: Amap 03
 Customers sample ID: 9-11.4.03 0830-0913
 : 160-150
 Sample type: Luft
 Sample amount: 1137 m3
 Concentration unit: pg/m3
 Data files: TA_7130.D

Kjeller, 04.08.2003

Component:	Concentration pg/m3	Recovery %	
Naphtalene *	118 b		
2-Methylnaphtalene	43,0 b	39	
1-Methylnaphtalene	25,0 b		
Biphenyl	109 b		
Acenaphthylene *	3,00 b		
Acenaphtene *	4,00 b	44	
Dibenzofuran	323		
Fluorene *	29,0 b		
Dibenzothiophene	2,00 b		
Phenanthrene *	24,0 b	67	
Antrachene *	1,00 b		
3-Methylphenanthrene	3,00 b		
2-Methylphenanthrene	4,00 b		
2-Methylantracene	< 1,00		
9-Methylphenanthrene	3,00 b		
1-Methylphenanthrene	3,00 b		
Fluoranthene *	7,00 b		
Pyrene *	5,00 b	85	
Benzo(a)fluorene	6,00 b,i		
Retene	2,00 b		
Benzo(b)fluorene	< 1,00		
Benzo(ghi)fluoranthene	< 1,00	90	
Cyclopenta(cd)pyrene	< 1,00		
Benz(a)anthracene *	< 1,00		
Chrysene */Triphenylene	1,00 b		
Benzo(b */j/k *)fluoranthenes	1,00 b		
Benzo(a)fluoranthene	< 1,00	122	
Benzo(e)pyrene	< 1,00		
Benzo(a)pyrene *	< 1,00		
Perylene	< 1,00		
Indeno(1,2,3-cd)pyrene *	< 1,00		
Dibenz(ac/ah *)anthracene	< 1,00	101	
Benzo(ghi)perylene *	< 1,00		
Anthanthrene	< 1,00		
Coronene	< 1,00		
Dibenzo(ae)pyrene	< 1,00		
Dibenzo(ai)pyrene	< 1,00		
Dibenzo(ah)pyrene	< 1,00		
Sum bicyclic PAH:	295		
Sum 3-7 ring PAH:	438		
Sum all:	733		
Sum 16 EPA PAH *	198		

- <: Lower than detection limit at signal:noise 3:1
- (i): Possible interference
- (s): Saturated signal
- (b): Lower than 10 times method blank
- (g): Recovery is not according to NILUs quality criteria

Results of PAH Analysis



356

Encl. to measuring report: O-2083
 NILU sample number: 03/835
 Customer: Amap 03
 Customers sample ID: 23-25.4.03 0719-0715
 : 160-154
 Sample type: Luft
 Sample amount: 1133 m3
 Concentration unit: pg/m3
 Data files: TA_7390.D

Kjeller, 16.10.03

Component:	Concentration pg/m3	Recovery %
Naphtalene *	43,0 b	37
2-Methylnaphtalene	21,0 b	
1-Methylnaphtalene	11,0 b	
Biphenyl	65,0 b	
Acenaphthylene *	1,00 b	41
Acenaphtene *	1,00 b	
Dibenzofuran	187	
Fluorene *	9,00 b	
Dibenzothiophene	1,00 b	52
Phenanthrene *	22,0 b	
Antrachene *	1,00 b	
3-Methylphenanthrene	3,00 b	
2-Methylphenanthrene	4,00 b	
2-Methylanthracene	< 1,00	
9-Methylphenanthrene	3,00 b	
1-Methylphenanthrene	3,00 b	
Fluoranthene *	10,0 b	71
Pyrene *	8,00 b	
Benzo(a)fluorene	< 1,00	
Retene	3,00 b	
Benzo(b)fluorene	< 1,00	
Benzo(ghi)fluoranthene	1,00 b	59
Cyclopenta(cd)pyrene	< 1,00	
Benz(a)anthracene *	1,00 b	
Chrysene */Triphenylene	2,00 b	
Benzo(b */j/k *)fluoranthenes	2,00	114
Benzo(a)fluoranthene	< 1,00	
Benzo(e)pyrene	1,00	
Benzo(a)pyrene *	< 1,00	
Perylene	< 1,00	
Indeno(1,2,3-cd)pyrene *	< 1,00	81
Dibenzo(ac/ah *)anthracene	< 1,00	
Benzo(ghi)perylene *	1,00	
Anthanthrene	< 1,00	
Coronene	< 1,00	
Dibenzo(ae)pyrene	< 1,00	
Dibenzo(ai)pyrene	< 1,00	
Dibenzo(ah)pyrene	< 1,00	
Sum bicyclic PAH:	140	
Sum 3-7 ring PAH:	278	
Sum all:	418	
Sum 16 EPA PAH *	104	

<: Lower than detection limit at signal:noise 3:1

(i): Possible interference

(s): Saturated signal

(b): Lower than 10 times method blank

(g): Recovery is not according to NILUs quality criteria

2. Versjon 24.09.01 GSK

Results of PAH Analysis

357



Encl. to measuring report: O-2083
 NILU sample number: 03/837
 Customer: Amap 03
 Customers sample ID: 28-30.4.03 0811-0742
 : 160-160
 Sample type: Luft
 Sample amount: 1145 m3
 Concentration unit: pg/m3
 Data files: TA_7391.D

Kjeller, 16.10.03

Component:	Concentration pg/m3	Recovery %
Naphtalene *	46,0 b	36
2-Methylnaphtalene	26,0 b	
1-Methylnaphtalene	14,0 b	
Biphenyl	34,0 b	
Acenaphthylene *	1,00 b	41
Acenaphtene *	< 1,00	
Dibenzofuran	102 b	
Fluorene *	7,00 b	
Dibenzothiophene	1,00 b	58
Phenanthrene *	16,0 b	
Antrachene *	1,00 b	
3-Methylphenanthrene	2,00 b	
2-Methylphenanthrene	3,00 b	
2-Methylantracene	< 1,00	
9-Methylphenanthrene	2,00 b	
1-Methylphenanthrene	2,00 b	
Fluoranthene *	7,00 b	
Pyrene *	6,00 b	72
Benzo(a)fluorene	1,00 b	
Retene	2,00 b	
Benzo(b)fluorene	< 1,00	
Benzo(ghi)fluoranthene	1,00 b	66
Cyclopenta(cd)pyrene	< 1,00	
Benz(a)anthracene *	< 1,00	
Chrysene */Triphenylene	1,00 b	
Benzo(b */j/k *)fluoranthenes	1,00	120 g
Benzo(a)fluoranthene	< 1,00	
Benzo(e)pyrene	< 1,00	
Benzo(a)pyrene *	< 1,00	
Perylene	< 1,00	92
Indeno(1,2,3-cd)pyrene *	< 1,00	
Dibenzo(ac/ah *)anthracene	< 1,00	
Benzo(ghi)perylene *	< 1,00	
Anthanthrene	< 1,00	
Coronene	< 1,00	
Dibenzo(ae)pyrene	< 1,00	
Dibenzo(ai)pyrene	< 1,00	
Dibenzo(ah)pyrene	< 1,00	
Sum bicyclic PAH:	120	
Sum 3-7 ring PAH:	173	
Sum all:	293	
Sum 16 EPA PAH *	92,0	

<: Lower than detection limit at signal:noise 3:1
 (i): Possible interference
 (s): Saturated signal
 (b): Lower than 10 times method blank
 (g): Recovery is not according to NILUs quality criteria

2. Versjon 24.09.01 GSK

Results of PAH Analysis



358

Encl. to measuring report: O-2083
 NILU sample number: 03/839
 Customer: Amap 03
 Customers sample ID: 2-4.5.03 0710-0952
 : 160-154
 Sample type: Luft
 Sample amount: 1199 m3
 Concentration unit: pg/m3
 Data files: TA_7392.D

Kjeller, 06.11.2003

Component:	Concentration pg/m3	Recovery %
Naphtalene *	54,0 b	
2-Methylnaphtalene	37,0 b	41
1-Methylnaphtalene	20,0 b	
Biphenyl	30,0 b	
Acenaphthylene *	2,00 b	
Acenaphtene *	3,00 i,b	46
Dibenzofuran	68,0 b	
Fluorene *	11,0 b	
Dibenzothiophene	1,00 b	
Phenanthrene *	23,0 b	
Antrachene *	1,00 b	65
3-Methylphenanthrene	4,00 b	
2-Methylphenanthrene	5,00 b	
2-Methylanthracene	< 1,00	
9-Methylphenanthrene	3,00 b	
1-Methylphenanthrene	3,00 b	
Fluoranthene *	11,0 b	
Pyrene *	10,0 b	83
Benzo(a)fluorene	< 1,00	
Retene	4,00 b	
Benzo(b)fluorene	< 1,00	
Benzo(ghi)fluoranthene	1,00 b	
Cyclopenta(cd)pyrene	< 1,00	
Benz(a)anthracene *	< 1,00	78
Chrysene */Triphenylene	1,00 b	
Benzo(b */i/k *)fluoranthenes	1,00	
Benzo(a)fluoranthene	< 1,00	
Benzo(e)pyrene	< 1,00	96
Benzo(a)pyrene *	< 1,00	
Perylene	< 1,00	
Indeno(1,2,3-cd)pyrene *	< 1,00	
Dibenzo(ac/ah *)anthracene	< 1,00	
Benzo(ghi)perylene *	< 1,00	80
Anthanthrene	< 1,00	
Coronene	< 1,00	
Dibenzo(ae)pyrene	< 1,00	
Dibenzo(ai)pyrene	< 1,00	
Dibenzo(ah)pyrene	< 1,00	
Sum bicyclic PAH:	141	
Sum 3-7 ring PAH:	169	
Sum all:	310	
Sum 16 EPA PAH *	122	

<: Lower than detection limit at signal:noise 3:1

(i): Possible interference

(s): Saturated signal

(b): Lower than 10 times method blank

(g): Recovery is not according to NILUs quality criteria

2. Version 24.09.01 GSK

Results of PAH Analysis

359



Encl. to measuring report: O-2083

NILU sample number: 03/841

Customer: Amap 03

Customers sample ID: 7-9.5.03 0704-0732

: 160-156

Sample type: Luft

Sample amount: 1154 m3

Concentration unit: pg/m3

Data files: TA_7393.D

Kjeller, 06.11.2003

Component:	Concentration pg/m3	Recovery %	
Naphtalene *	38,0 b	37	
2-Methylnaphtalene	28,0 b		
1-Methylnaphtalene	15,0 b		
Biphenyl	36,0 b		
Acenaphthylene *	1,00 b	43	
Acenaphtene *	3,00 b		
Dibenzofuran	130 b		
Fluorene *	24,0 b		
Dibenzothiophene	2,00 b	59	
Phenanthrene *	34,0 b		
Antrachene *	1,00 b		
3-Methylphenanthrene	4,00 b		
2-Methylphenanthrene	7,00 b		
2-Methylantracene	< 1,00		
9-Methylphenanthrene	4,00 b		
1-Methylphenanthrene	4,00 b		
Fluoranthene *	12,0 b	75	
Pyrene *	8,00 b		
Benzo(a)fluorene	< 1,00		
Retene	3,00 b		
Benzo(b)fluorene	< 1,00	67	
Benzo(ghi)fluoranthene	1,00		
Cyclopenta(cd)pyrene	< 1,00		
Benz(a)anthracene *	< 1,00		
Chrysene */Triphenylene	2,00	89	
Benzo(b */j/k *)fluoranthenes	2,00		
Benzo(a)fluoranthene	< 1,00		
Benzo(e)pyrene	< 1,00		
Benzo(a)pyrene *	1,00	76	
Perylene	< 1,00		
Indeno(1,2,3-cd)pyrene *	< 1,00		
Dibenzo(ac/ah *)anthracene	< 1,00		
Benzo(ghi)perylene *	1,00	76	
Anthanthrene	< 1,00		
Coronene	< 1,00		
Dibenzo(ae)pyrene	< 1,00		
Dibenzo(ai)pyrene	< 1,00		
Dibenzo(ah)pyrene	< 1,00		
Sum bicyclic PAH:	117		
Sum 3-7 ring PAH:	259		
Sum all:	376		
Sum 16 EPA PAH *	130		

<: Lower than detection limit at signal:noise 3:1

(i): Possible interference

(s): Saturated signal

(b): Lower than 10 times method blank

(g): Recovery is not according to NILUs quality criteria

2. Versjon 24.09.01 GSK

Results of PAH Analysis



360

Encl. to measuring report: O-2083
 NILU sample number: 03/844
 Customer: Amap 03
 Customers sample ID: 14-16.5.03 0908-0937
 : 160-168
 Sample type: Luft
 Sample amount: 1200 m3
 Concentration unit: pg/m3
 Data files: TA_7394.D

Kjeller, 16.10.03

Component:	Concentration pg/m3	Recovery %
Naphtalene *	37,0 b	39
2-Methylnaphtalene	19,0 b	
1-Methylnaphtalene	11,0 b	
Biphenyl	24,0 b	
Acenaphthylene *	1,00 b	44
Acenaphtene *	1,00 i,b	
Dibenzofuran	56,0 b	
Fluorene *	11,0 b	
Dibenzothiophene	1,00 b	56
Phenanthrene *	18,0 b	
Antrachene *	1,00 b	
3-Methylphenanthrene	3,00 b	
2-Methylphenanthrene	4,00 b	
2-Methylanthracene	< 1,00	
9-Methylphenanthrene	3,00 b	
1-Methylphenanthrene	3,00 b	
Fluoranthene *	8,00 b	76
Pyrene *	6,00 b	
Benzo(a)fluorene	< 1,00	
Retene	3,00 b	
Benzo(b)fluorene	< 1,00	
Benzo(ghi)fluoranthene	1,00 b	67
Cyclopenta(cd)pyrene	< 1,00	
Benz(a)anthracene *	< 1,00	
Chrysene */Triphenylene	1,00 b	
Benzo(b */j/k *)fluoranthenes	1,00	
Benzo(a)fluoranthene	< 1,00	123 g
Benzo(e)pyrene	< 1,00	
Benzo(a)pyrene *	< 1,00	
Perylene	< 1,00	
Indeno(1,2,3-cd)pyrene *	< 1,00	93
Dibenzo(ac/ah *)anthracene	< 1,00	
Benzo(ghi)perylene *	< 1,00	
Anthanthrene	< 1,00	
Coronene	< 1,00	
Dibenzo(ae)pyrene	< 1,00	
Dibenzo(ai)pyrene	< 1,00	
Dibenzo(ah)pyrene	< 1,00	
Sum bicyclic PAH:	91,0	
Sum 3-7 ring PAH:	139	
Sum all:	230	
Sum 16 EPA PAH *	90,0	

<: Lower than detection limit at signal:noise 3:1

(i): Possible interference

(s): Saturated signal

(b): Lower than 10 times method blank

(g): Recovery is not according to NILUs quality criteria

2. Versjon 24.09.01 GSK

Results of PAH Analysis

Encl. to measuring report: O-2083
 NILU sample number: 03/847
 Customer: Amap 03
 Customers sample ID: 21-23.5.03 0737-0712
 : 160-160
 Sample type: Luft
 Sample amount: 1147 m3
 Concentration unit: pg/m3
 Data files: TA_7395.D

361



Kjeller, 17.10.03

Component:	Concentration pg/m3	Recovery %
Naphtalene *	115 b	36
2-Methylnaphtalene	209 b	
1-Methylnaphtalene	129 b	
Biphenyl	78,0 b	
Acenaphthylene *	64,0 b	44
Acenaphtene *	15,0 b	
Dibenzofuran	72,0 b	
Fluorene *	107	
Dibenzothiophene	4,00 b	62
Phenanthrene *	162	
Antrachene *	31,0	
3-Methylphenanthrene	51,0	
2-Methylphenanthrene	57,0	
2-Methylanthracene	17,0	
9-Methylphenanthrene	28,0 i	
1-Methylphenanthrene	23,0 i	
Fluoranthene *	17,0 b	77
Pyrene *	14,0 b	
Benzo(a)fluorene	< 1,00	
Retene	4,00 b	
Benzo(b)fluorene	< 1,00	71
Benzo(ghi)fluoranthene	< 1,00	
Cyclopenta(cd)pyrene	< 1,00	
Benz(a)anthracene *	< 1,00	
Chrysene */Triphenylene	1,00 b	104
Benzo(b */j/k *)fluoranthenes	1,00	
Benzo(a)fluoranthene	< 1,00	
Benzo(e)pyrene	1,00 i	
Benzo(a)pyrene *	< 1,00	86
Perylene	< 1,00	
Indeno(1,2,3-cd)pyrene *	< 1,00	
Dibenzo(ac/ah *)anthracene	< 1,00	
Benzo(ghi)perylene *	< 1,00	
Anthanthrene	1,00 i	
Coronene	< 1,00	
Dibenzo(ae)pyrene	< 1,00	
Dibenzo(ai)pyrene	< 1,00	
Dibenzo(ah)pyrene	< 1,00	
Sum bicyclic PAH:	531	
Sum 3-7 ring PAH:	685	
Sum all:	1 216	
Sum 16 EPA PAH *	532	

<: Lower than detection limit at signal:noise 3:1
 (i): Possible interference
 (s): Saturated signal
 (b): Lower than 10 times method blank
 (g): Recovery is not according to NILUs quality criteria

2. Versjon 24.09.01 GSK

Results of PAH Analysis



362

Encl. to measuring report: O-2083
 NILU sample number: 03/850
 Customer: Amap 03
 Customers sample ID: 28-30.5.03 0656-0849
 : 160-163
 Sample type: Luft
 Sample amount: 1210 m3
 Concentration unit: pg/m3
 Data files: TA_7398.D

Kjeller, 17.10.03

Component:	Concentration pg/m3	Recovery %
Naphtalene *	60,0 b	
2-Methylnaphtalene	129 b	33
1-Methylnaphtalene	77,0 b	
Biphenyl	51,0 b	
Acenaphthylene *	36,0 b	
Acenaphtene *	11,0 b	40
Dibenzofuran	73,0 b	
Fluorene *	96,0	
Dibenzothiophene	5,00 b	
Phenanthrene *	183	
Antrachene *	25,0	57
3-Methylphenanthrene	46,0	
2-Methylphenanthrene	53,0	
2-Methylantracene	11,0	
9-Methylphenanthrene	27,0 i	
1-Methylphenanthrene	24,0 i	
Fluoranthene *	19,0 b	
Pyrene *	16,0 b	73
Benzo(a)fluorene	2,00 i,b	
Retene	3,00 b	
Benzo(b)fluorene	2,00 i	
Benzo(ghi)fluoranthene	1,00 b	
Cyclopenta(cd)pyrene	< 1,00	
Benz(a)anthracene *	1,00 b	66
Chrysene */Triphenylene	1,00 b	
Benzo(b */j/k *)fluoranthenes	2,00	
Benzo(a)fluoranthene	1,00	
Benzo(e)pyrene	1,00	117
Benzo(a)pyrene *	1,00	
Perylene	1,00	
Indeno(1,2,3-cd)pyrene *	< 1,00	
Dibenzo(ac/ah *)anthracene	< 1,00	
Benzo(ghi)perylene *	< 1,00	97
Anthanthrene	< 1,00	
Coronene	< 1,00	
Dibenzo(ae)pyrene	< 1,00	
Dibenzo(ai)pyrene	< 1,00	
Dibenzo(ah)pyrene	< 1,00	
Sum bicyclic PAH:	317	
Sum 3-7 ring PAH:	650	
Sum all:	967	
Sum 16 EPA PAH *	454	

<: Lower than detection limit at signal:noise 3:1

(i): Possible interference

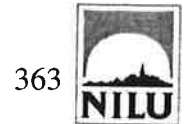
(s): Saturated signal

(b): Lower than 10 times method blank

(g): Recovery is not according to NILUs quality criteria

2. Versjon 24.09.01 GSK

Results of PAH Analysis



Encl. to measuring report: O-2083
 NILU sample number: 03/1018
 Customer: Amap 03
 Customers sample ID: 2-4.6.03 0716-0708
 : 160-158
 Sample type: Luft
 Sample amount: 1147 m3
 Concentration unit: pg/m3
 Data files: TA_7399.D

Kjeller, 17.10.03

Component:	Concentration pg/m3	Recovery %
Naphtalene *	55,0 b	31
2-Methylnaphtalene	35,0 b	
1-Methylnaphtalene	19,0 b	
Biphenyl	24,0 b	
Acenaphthylene *	7,00 b	37
Acenaphtene *	3,00 b	
Dibenzofuran	51,0 b	
Fluorene *	36,0 b	
Dibenzothiophene	1,00 b	50
Phenanthrene *	62,0 b	
Antrachene *	9,00	
3-Methylphenanthrene	17,0 b	
2-Methylphenanthrene	21,0 b	
2-Methylantracene	5,00	
9-Methylphenanthrene	12,0 b	
1-Methylphenanthrene	9,00 b	
Fluoranthene *	11,0 b	62
Pyrene *	9,00 b	
Benzo(a)fluorene	1,00 b	
Retene	2,00 b	
Benzo(b)fluorene	< 1,00	
Benzo(ghi)fluoranthene	< 1,00	56
Cyclopenta(cd)pyrene	< 1,00	
Benz(a)anthracene *	< 1,00	
Chrysene */Triphenylene	1,00 b	
Benzo(b */j/k *)fluoranthenes	1,00	110
Benzo(a)fluoranthene	< 1,00	
Benzo(e)pyrene	< 1,00	
Benzo(a)pyrene *	< 1,00	
Perylene	< 1,00	
Indeno(1,2,3-cd)pyrene *	< 1,00	
Dibenzo(ac/ah *)anthracene	< 1,00	89
Benzo(ghi)perylene *	< 1,00	
Anthanthrene	< 1,00	
Coronene	< 1,00	
Dibenzo(ae)pyrene	< 1,00	
Dibenzo(ai)pyrene	< 1,00	
Dibenzo(ah)pyrene	< 1,00	
Sum bicyclic PAH:	133	
Sum 3-7 ring PAH:	274	
Sum all:	407	
Sum 16 EPA PAH *	199	

<: Lower than detection limit at signal:noise 3:1

(i): Possible interference

(s): Saturated signal

(b): Lower than 10 times method blank

(g): Recovery is not according to NILUs quality criteria

Results of PAH Analysis



364

Encl. to measuring report: O-2083
 NILU sample number: 03/1021
 Customer: Amap 03
 Customers sample ID: 9-11.6.03 0943-0855
 : 160-160
 Sample type: Luft
 Sample amount: 1138 m3
 Concentration unit: pg/m3
 Data files: TA_7400.D

Kjeller, 17.10.03

Component:	Concentration pg/m3	Recovery %
Naphtalene *	42,0 b	33
2-Methylnaphtalene	29,0 b	
1-Methylnaphtalene	14,0 b	
Biphenyl	17,0 b	
Acenaphthylene *	4,00 b	41
Acenaphtene *	3,00 b	
Dibenzofuran	32,0 b	
Fluorene *	34,0 b	
Dibenzothiophene	2,00 b	55
Phenanthrene *	86,0 b	
Antrachene *	13,0	
3-Methylphenanthrene	20,0	
2-Methylphenanthrene	24,0	
2-Methylanthracene	5,00	
9-Methylphenanthrene	12,0 b	
1-Methylphenanthrene	11,0 b	
Fluoranthene *	15,0 b	72
Pyrene *	12,0 b	
Benzo(a)fluorene	1,00 b	
Retene	4,00 b	
Benzo(b)fluorene	< 1,00	
Benzo(ghi)fluoranthene	< 1,00	60
Cyclopenta(cd)pyrene	< 1,00	
Benz(a)anthracene *	< 1,00	
Chrysene */Triphenylene	1,00 b	
Benzo(b */j/k *)fluoranthenes	1,00	109
Benzo(a)fluoranthene	< 1,00	
Benzo(e)pyrene	< 1,00	
Benzo(a)pyrene *	< 1,00	
Perylene	< 1,00	
Indeno(1,2,3-cd)pyrene *	< 1,00	85
Dibenzo(ac/ah *)anthracene	< 1,00	
Benzo(ghi)perylene *	< 1,00	
Anthanthrene	< 1,00	
Coronene	< 1,00	
Dibenzo(ae)pyrene	< 1,00	
Dibenzo(ai)pyrene	< 1,00	
Dibenzo(ah)pyrene	< 1,00	
Sum bicyclic PAH:	102	
Sum 3-7 ring PAH:	296	
Sum all:	398	
Sum 16 EPA PAH *	216	

<: Lower than detection limit at signal:noise 3:1

(i): Possible interference

(s): Saturated signal

(b): Lower than 10 times method blank

(g): Recovery is not according to NILUs quality criteria

2. Versjon 24.09.01 GSK

Results of PAH Analysis

365



Encl. to measuring report: O-2083
 NILU sample number: 03/1024
 Customer: Amap 03
 Customers sample ID: 16-18.6.03 0748-0655
 : 160-163
 Sample type: Luft
 Sample amount: 1140 m3
 Concentration unit: pg/m3
 Data files: TA_7401.D

Kjeller, 17.10.03

Component:	Concentration pg/m3	Recovery %
Naphtalene *	57,0 b	29
2-Methylnaphtalene	34,0 b	
1-Methylnaphtalene	17,0 b	
Biphenyl	18,0 b	
Acenaphthylene *	3,00 b	37
Acenaphtene *	2,00 b	
Dibenzofuran	30,0 b	
Fluorene *	22,0 b	
Dibenzothiophene	1,00 b	59
Phenanthrene *	44,0 b	
Antrachene *	5,00 b	
3-Methylphenanthrene	9,00 b	
2-Methylphenanthrene	11,0 b	
2-Methylantracene	2,00	
9-Methylphenanthrene	6,00 b	
1-Methylphenanthrene	5,00 b	
Fluoranthene *	10,0 b	75
Pyrene *	7,00 b	
Benzo(a)fluorene	< 1,00	
Retene	3,00 b	
Benzo(b)fluorene	< 1,00	
Benzo(ghi)fluoranthene	< 1,00	55
Cyclopenta(cd)pyrene	< 1,00	
Benz(a)anthracene *	< 1,00	
Chrysene */Triphenylene	1,00 b	
Benzo(b */j/k *)fluoranthenes	1,00	102
Benzo(a)fluoranthene	< 1,00	
Benzo(e)pyrene	1,00	
Benzo(a)pyrene *	< 1,00	
Perylene	< 1,00	
Indeno(1,2,3-cd)pyrene *	< 1,00	74
Dibenzo(ac/ah *)anthracene	< 1,00	
Benzo(ghi)perylene *	< 1,00	
Anthanthrene	< 1,00	
Coronene	< 1,00	
Dibenzo(ae)pyrene	< 1,00	
Dibenzo(ai)pyrene	< 1,00	
Dibenzo(ah)pyrene	< 1,00	
Sum bicyclic PAH:	126	
Sum 3-7 ring PAH:	179	
Sum all:	305	
Sum 16 EPA PAH *	157	

<: Lower than detection limit at signal:noise 3:1

(i): Possible interference

(s): Saturated signal

(b): Lower than 10 times method blank

(g): Recovery is not according to NILUs quality criteria

2. Version 24.09.01 GSK

Results of PAH Analysis



366

Encl. to measuring report: O-2083
 NILU sample number: 03/1027
 Customer: Amap 03
 Customers sample ID: 23-25.6.03 0732-0719
 : 160-162
 Sample type: Luft
 Sample amount: 1157 m3
 Concentration unit: pg/m3
 Data files: TA_7402.D

Kjeller, 17.10.03

Component:	Concentration pg/m3	Recovery %
Naphtalene *	51,0 b	
2-Methylnaphtalene	25,0 b	39
1-Methylnaphtalene	13,0 b	
Biphenyl	19,0 b	
Acenaphthylene *	2,00 b	
Acenaphtene *	1,00 b	47
Dibenzofuran	50,0 b	
Fluorene *	29,0 b	
Dibenzothiophene	2,00 b	
Phenanthrene *	66,0 b	
Antrachene *	9,00	63
3-Methylphenanthrene	14,0 b	
2-Methylphenanthrene	16,0 b	
2-Methylanthracene	3,00	
9-Methylphenanthrene	9,00 b	
1-Methylphenanthrene	7,00 b	
Fluoranthene *	8,00 b	
Pyrene *	6,00 b	79
Benzo(a)fluorene	< 1,00	
Retene	2,00 b	
Benzo(b)fluorene	< 1,00	
Benzo(ghi)fluoranthene	< 1,00	
Cyclopenta(cd)pyrene	< 1,00	
Benz(a)anthracene *	< 1,00	65
Chrysene */Triphenylene	1,00 b	
Benzo(b */j/k *)fluoranthenes	< 1,00	
Benzo(a)fluoranthene	< 1,00	
Benzo(e)pyrene	< 1,00	116
Benzo(a)pyrene *	< 1,00	
Perylene	< 1,00	
Indeno(1,2,3-cd)pyrene *	< 1,00	
Dibenzo(ac/ah *)anthracene	< 1,00	
Benzo(ghi)perylene *	< 1,00	94
Anthanthrene	< 1,00	
Coronene	< 1,00	
Dibenzo(ae)pyrene	< 1,00	
Dibenzo(ai)pyrene	< 1,00	
Dibenzo(ah)pyrene	< 1,00	
Sum bicyclic PAH:	108	
Sum 3-7 ring PAH:	243	
Sum all:	351	
Sum 16 EPA PAH *	179	

<: Lower than detection limit at signal:noise 3:1

(i): Possible interference

(s): Saturated signal

(b): Lower than 10 times method blank

(g): Recovery is not according to NILUs quality criteria

2. Versjon 24.09.01 GSK

Results of PAH Analysis



Encl. to measuring report: O-2083
 NILU sample number: 03/1030
 Customer: Amap 03
 Customers sample ID: 30.6-2.7.03 0727-0812
 : 160-162
 Sample type: Luft
 Sample amount: 1181 m3
 Concentration unit: pg/m3
 Data files: TA_7403.D

Kjeller, 17.10.03

Component:	Concentration pg/m3	Recovery %
Naphtalene *	53,0 b	
2-Methylnaphtalene	35,0 b	41
1-Methylnaphtalene	28,0 b	
Biphenyl	21,0 b	
Acenaphthylene *	2,00 b	
Acenaphtene *	2,00 b	45
Dibenzofuran	61,0 b	
Fluorene *	30,0 b	
Dibenzothiophene	3,00 b	
Phenanthrene *	44,0 b	
Antrachene *	3,00 b	61
3-Methylphenanthrene	9,00 b	
2-Methylphenanthrene	13,0 b	
2-Methylanthracene	1,00 b	
9-Methylphenanthrene	7,00 b	
1-Methylphenanthrene	6,00 b	
Fluoranthene *	10,0 b	
Pyrene *	7,00 b	83
Benzo(a)fluorene	< 1,00	
Retene	2,00 b	
Benzo(b)fluorene	< 1,00	
Benzo(ghi)fluoranthene	< 1,00	
Cyclopenta(cd)pyrene	< 1,00	
Benz(a)anthracene *	< 1,00	84
Chrysene */Triphenylene	1,00 b	
Benzo(b */j/k *)fluoranthenes	< 1,00	
Benzo(a)fluoranthene	< 1,00	
Benzo(e)pyrene	< 1,00	131 g
Benzo(a)pyrene *	< 1,00	
Perylene	< 1,00	
Indeno(1,2,3-cd)pyrene *	< 1,00	
Dibenzo(ac/ah *)anthracene	< 1,00	
Benzo(ghi)perylene *	< 1,00	113
Anthanthrene	< 1,00	
Coronene	< 1,00	
Dibenzo(ae)pyrene	< 1,00	
Dibenzo(ai)pyrene	< 1,00	
Dibenzo(ah)pyrene	< 1,00	
Sum bicyclic PAH:	137	
Sum 3-7 ring PAH:	219	
Sum all:	356	
Sum 16 EPA PAH *	158	

<: Lower than detection limit at signal:noise 3:1
 (i): Possible interference
 (s): Saturated signal
 (b): Lower than 10 times method blank
 (g): Recovery is not according to NILUs quality criteria

Results of PAH Analysis



368

Encl. to measuring report: O-2083
 NILU sample number: 03/1243
 Customer: Amap 03
 Customers sample ID: 7-9.7.03 0727-0754
 : 160-160
 Sample type: Luft
 Sample amount: 1169 m3
 Concentration unit: pg/m3
 Data files: TA_7526.D

Kjeller, 03.03.04

Component:	Concentration pg/m3	Recovery %
Naphtalene *	44,0 b	37
2-Methylnaphtalene	27,0 b	
1-Methylnaphtalene	14,0 b	
Biphenyl	17,0 b	
Acenaphthylene *	2,00 b	43
Acenaphtene *	3,00 b	
Dibenzofuran	45,0 b	
Fluorene *	25,0 b	
Dibenzothiophene	4,00 b	62
Phenanthrene *	68,0 b	
Antrachene *	1,00 b	
3-Methylphenanthrene	12,0 b	
2-Methylphenanthrene	17,0 b	
2-Methylanthracene	< 1,00	
9-Methylphenanthrene	10,0 b	
1-Methylphenanthrene	9,00 b	
Fluoranthene *	22,0 b	78
Pyrene *	16,0 b	
Benzo(a)fluorene	1,00 b	
Retene	7,00 b	
Benzo(b)fluorene	2,00 i	
Benzo(ghi)fluoranthene	1,00 b	67
Cyclopenta(cd)pyrene	< 1,00	
Benz(a)anthracene *	1,00 b	
Chrysene */Triphenylene	2,00 b	
Benzo(b */j/k *)fluoranthenes	1,00	131 g
Benzo(a)fluoranthene	< 1,00	
Benzo(e)pyrene	< 1,00	
Benzo(a)pyrene *	< 1,00	
Perylene	< 1,00	
Indeno(1,2,3-cd)pyrene *	< 1,00	111
Dibenzo(ac/ah *)anthracene	< 1,00	
Benzo(ghi)perylene *	< 1,00	
Anthanthrene	< 1,00	
Coronene	< 1,00	
Dibenzo(ae)pyrene	< 1,00	
Dibenzo(ai)pyrene	< 1,00	
Dibenzo(ah)pyrene	< 1,00	
Sum bicyclic PAH:	102	
Sum 3-7 ring PAH:	263	
Sum all:	365	
Sum 16 EPA PAH *	189	

<: Lower than detection limit at signal:noise 3:1
 (i): Possible interference
 (s): Saturated signal
 (b): Lower than 10 times method blank
 (g): Recovery is not according to NILUs quality criteria

2. Versjon 24.09.01 GSK

Results of PAH Analysis

369



Encl. to measuring report: O-2083
 NILU sample number: 03/1246
 Customer: Amap 03
 Customers sample ID: 14-16.7.03 0915-0844
 : 160-159
 Sample type: Luft
 Sample amount: 1142 m3
 Concentration unit: pg/m3
 Data files: TA_7527.D

Kjeller, 03.03.04

Component:	Concentration pg/m3	Recovery %	
Naphtalene *	20,0 b	39	
2-Methylnaphtalene	13,0 b		
1-Methylnaphtalene	7,00 b		
Biphenyl	18,0 b		
Acenaphthylene *	1,00 b	44	
Acenaphtene *	1,00 b		
Dibenzofuran	57,0 b		
Fluorene *	24,0 b		
Dibenzothiophene	2,00 b	66	
Phenanthrene *	25,0 b		
Antrachene *	< 1,00		
3-Methylphenanthrene	4,00 b		
2-Methylphenanthrene	6,00 b		
2-Methylanthracene	< 1,00		
9-Methylphenanthrene	4,00 b		
1-Methylphenanthrene	3,00 b		
Fluoranthene *	5,00 b	83	
Pyrene *	3,00 b		
Benzo(a)fluorene	< 1,00		
Retene	1,00 b		
Benzo(b)fluorene	< 1,00	74	
Benzo(ghi)fluoranthene	< 1,00		
Cyclopenta(cd)pyrene	< 1,00		
Benz(a)anthracene *	< 1,00		
Chrysene */Triphenylene	< 1,00		
Benzo(b */j/k *)fluoranthenes	< 1,00		
Benzo(a)fluoranthene	< 1,00		
Benzo(e)pyrene	< 1,00		
Benzo(a)pyrene *	< 1,00	134 g	
Perylene	< 1,00		
Indeno(1,2,3-cd)pyrene *	< 1,00		
Dibenzo(ac/ah *)anthracene	< 1,00		
Benzo(ghi)perylene *	< 1,00	112	
Anthanthrene	< 1,00		
Coronene	< 1,00		
Dibenzo(ae)pyrene	< 1,00		
Dibenzo(ai)pyrene	< 1,00		
Dibenzo(ah)pyrene	< 1,00		
Sum bicyclic PAH:	58,0		
Sum 3-7 ring PAH:	157		
Sum all:	215		
Sum 16 EPA PAH *	87,0		

<: Lower than detection limit at signal:noise 3:1

(i): Possible interference

(s): Saturated signal

(b): Lower than 10 times method blank

(g): Recovery is not according to NILUs quality criteria

2. Versjon 24.09.01 GSK

Results of PAH Analysis



370

Encl. to measuring report: O-2083
 NILU sample number: 03/1249
 Customer: Amap 03
 Customers sample ID: 21-23.7.03 0800-0752
 : 160-163
 Sample type: Luft
 Sample amount: 1162 m3
 Concentration unit: pg/m3
 Data files: TA_7528.D

Kjeller, 03.03.04

Component:	Concentration pg/m3	Recovery %
Naphtalene *	24,0 b	40
2-Methylnaphtalene	14,0 b	
1-Methylnaphtalene	8,00 b	
Biphenyl	13,0 b	
Acenaphthylene *	1,00 b	47
Acenaphtene *	2,00 b	
Dibenzofuran	36,0 b	
Fluorene *	18,0 b	
Dibenzothiophene	2,00 b	67
Phenanthrene *	23,0 b	
Antrachene *	< 1,00	
3-Methylphenanthrene	5,00 b	
2-Methylphenanthrene	7,00	
2-Methylanthracene	< 1,00	
9-Methylphenanthrene	5,00 b	
1-Methylphenanthrene	4,00 b	
Fluoranthene *	9,00 b	82
Pyrene *	7,00 b	
Benzo(a)fluorene	< 1,00	
Retene	3,00 b	
Benzo(b)fluorene	1,00 i	76
Benzo(ghi)fluoranthene	< 1,00	
Cyclopenta(cd)pyrene	< 1,00	
Benz(a)anthracene *	< 1,00	
Chrysene */Triphenylene	< 1,00	
Benzo(b *j/k *)fluoranthenes	< 1,00	
Benzo(a)fluoranthene	< 1,00	
Benzo(e)pyrene	< 1,00	
Benzo(a)pyrene *	< 1,00	
Perylene	< 1,00	125
Indeno(1,2,3-cd)pyrene *	< 1,00	
Dibenzo(ac/ah *)anthracene	< 1,00	
Benzo(ghi)perylene *	< 1,00	
Anthanthrene	< 1,00	
Coronene	< 1,00	
Dibenzo(ae)pyrene	< 1,00	
Dibenzo(ai)pyrene	< 1,00	
Dibenzo(ah)pyrene	< 1,00	
Sum bicyclic PAH:	59,0	
Sum 3-7 ring PAH:	143	
Sum all:	202	
Sum 16 EPA PAH *	92,0	

<: Lower than detection limit at signal:noise 3:1

(i): Possible interference

(s): Saturated signal

(b): Lower than 10 times method blank

(g): Recovery is not according to NILUs quality criteria

2. Versjon 24.09.01 GSK

Results of PAH Analysis



371

Encl. to measuring report: O-2083
 NILU sample number: 03/1253
 Customer: Amap 03
 Customers sample ID: 30.7-1.8.03 0722-0728
 : 160-159
 Sample type: Luft
 Sample amount: 1178 m3
 Concentration unit: pg/m3
 Data files: TA_7529.D

Kjeller, 03.03.04

Component:	Concentration pg/m3	Recovery %
Naphtalene *	19,0 b	37
2-Methylnaphtalene	10,0 b	
1-Methylnaphtalene	6,00 b	
Biphenyl	16,0 b	
Acenaphthylene *	1,00 b	43
Acenaphtene *	1,00 b	
Dibenzofuran	56,0 b	
Fluorene *	21,0 b	
Dibenzothiophene	2,00 b	59
Phenanthrene *	25,0 b	
Antrachene *	< 1,00	
3-Methylphenanthrene	5,00 b	
2-Methylphenanthrene	7,00 b	
2-Methylanthracene	< 1,00	
9-Methylphenanthrene	5,00 b	
1-Methylphenanthrene	4,00 b	
Fluoranthene *	12,0 b	
Pyrene *	9,00 b	
Benzo(a)fluorene	1,00 b	
Retene	3,00 b	
Benzo(b)fluorene	1,00 i	76
Benzo(ghi)fluoranthene	< 1,00	
Cyclopenta(cd)pyrene	< 1,00	
Benz(a)anthracene *	< 1,00	
Chrysene */Triphenylene	2,00 b	
Benzo(b */j/k *)fluoranthenes	< 1,00	
Benzo(a)fluoranthene	< 1,00	104
Benzo(e)pyrene	< 1,00	
Benzo(a)pyrene *	< 1,00	
Perylene	< 1,00	
Indeno(1,2,3-cd)pyrene *	< 1,00	91
Dibenzo(ac/ah *)anthracene	< 1,00	
Benzo(ghi)perylene *	< 1,00	
Anthanthrene	< 1,00	
Coronene	< 1,00	
Dibenzo(ae)pyrene	< 1,00	
Dibenzo(ai)pyrene	< 1,00	
Dibenzo(ah)pyrene	< 1,00	
Sum bicyclic PAH:	51,0	
Sum 3-7 ring PAH:	173	
Sum all:	224	
Sum 16 EPA PAH *	97,0	

<: Lower than detection limit at signal:noise 3:1
 (i): Possible interference
 (s): Saturated signal
 (b): Lower than 10 times method blank
 (g): Recovery is not according to NILUs quality criteria

2. Versjon 24.09.01 GSK

Results of PAH Analysis



372

Encl. to measuring report: O-2083
 NILU sample number: 03/1255
 Customer: Amap 03
 Customers sample ID: 4-6.8.03 0733-0747
 : 160-159
 Sample type: Luft
 Sample amount: 1181 m3
 Concentration unit: pg/m3
 Data files: TA_7531.D

Kjeller, 03.03.04

Component:	Concentration pg/m3	Recovery %
Naphtalene *	25,0 b	38
2-Methylnaphtalene	16,0 b	
1-Methylnaphtalene	9,00 b	
Biphenyl	26,0 b	
Acenaphthylene *	1,00 b	45
Acenaphthene *	2,00 b	
Dibenzofuran	63,0 b	
Fluorene *	17,0 b	
Dibenzothiophene	1,00 b	57
Phenanthrene *	32,0 b	
Antrachene *	< 1,00	
3-Methylphenanthrene	6,00 b	
2-Methylphenanthrene	9,00 b	
2-Methylanthracene	< 1,00	
9-Methylphenanthrene	6,00 b	
1-Methylphenanthrene	5,00 b	
Fluoranthene *	11,0 b	75
Pyrene *	8,00 b	
Benzo(a)fluorene	< 1,00	
Retene	4,00 b	
Benzo(b)fluorene	< 1,00	
Benzo(ghi)fluoranthene	1,00 b	65
Cyclopenta(cd)pyrene	< 1,00	
Benz(a)anthracene *	< 1,00	
Chrysene */Triphenylene	2,00 b	
Benzo(b */j/k *)fluoranthenes	1,00	92
Benzo(a)fluoranthene	< 1,00	
Benzo(e)pyrene	< 1,00	
Benzo(a)pyrene *	< 1,00	
Perylene	< 1,00	
Indeno(1,2,3-cd)pyrene *	< 1,00	71
Dibenzo(ac/ah *)anthracene	< 1,00	
Benzo(ghi)perylene *	< 1,00	
Anthanthrene	< 1,00	
Coronene	< 1,00	
Dibenzo(ae)pyrene	< 1,00	
Dibenzo(ai)pyrene	< 1,00	
Dibenzo(ah)pyrene	< 1,00	
Sum bicyclic PAH:	76,0	
Sum 3-7 ring PAH:	187	
Sum all:	263	
Sum 16 EPA PAH *	105	

<: Lower than detection limit at signal:noise 3:1

(i): Possible interference

(s): Saturated signal

(b): Lower than 10 times method blank

(g): Recovery is not according to NILUs quality criteria

2. Version 24.09.01 GSK

Results of PAH Analysis

373



Encl. to measuring report: O-2083
 NILU sample number: 03/1258
 Customer: Amap 03
 Customers sample ID: 11-13.8.03 0822-0732
 : 160-156
 Sample type: Luft
 Sample amount: 1123 m3
 Concentration unit: pg/m3
 Data files: TA_7532.D

Kjeller, 03.03.04

Component:	Concentration pg/m3	Recovery %
Naphtalene *	16,0 b	40
2-Methylnaphtalene	10,0 b	
1-Methylnaphtalene	5,00 b	
Biphenyl	9,00 b	
Acenaphthylene *	1,00 b	47
Acenaphtene *	2,00 b	
Dibenzofuran	34,0 b	
Fluorene *	16,0 b	
Dibenzothiophene	2,00 b	64
Phenanthrene *	24,0 b	
Antrachene *	< 1,00	
3-Methylphenanthrene	4,00 b	
2-Methylphenanthrene	6,00 b	
2-Methylanthracene	< 1,00	
9-Methylphenanthrene	4,00 b	
1-Methylphenanthrene	3,00 b	
Fluoranthene *	6,00 b	79
Pyrene *	4,00 b	
Benzo(a)fluorene	< 1,00	
Retene	1,00 b	
Benzo(b)fluorene	< 1,00	67
Benzo(ghi)fluoranthene	< 1,00	
Cyclopenta(cd)pyrene	< 1,00	
Benz(a)anthracene *	< 1,00	
Chrysene */Triphenylene	< 1,00	
Benzo(b */j/k *)fluoranthenes	< 1,00	
Benzo(a)fluoranthene	< 1,00	97
Benzo(e)pyrene	< 1,00	
Benzo(a)pyrene *	< 1,00	
Perylene	< 1,00	
Indeno(1,2,3-cd)pyrene *	< 1,00	87
Dibenzo(ac/ah *)anthracene	< 1,00	
Benzo(ghi)perylene *	< 1,00	
Anthanthrene	< 1,00	
Coronene	< 1,00	
Dibenzo(ae)pyrene	< 1,00	
Dibenzo(ai)pyrene	< 1,00	
Dibenzo(ah)pyrene	< 1,00	
Sum bicyclic PAH:	40,0	
Sum 3-7 ring PAH:	128	
Sum all:	168	
Sum 16 EPA PAH *	77,0	

<: Lower than detection limit at signal:noise 3:1

(i): Possible interference

(s): Saturated signal

(b): Lower than 10 times method blank

(g): Recovery is not according to NILUs quality criteria

2. Versjon 24.09.01 GSK

Results of PAH Analysis



374

Encl. to measuring report: O-2083
 NILU sample number: 03/1261
 Customer: Amap 03
 Customers sample ID: 18-20.8.03 0745-0754
 : 160-160
 Sample type: Luft
 Sample amount: 1162 m3
 Concentration unit: pg/m3
 Data files: TA_7533.D

Kjeller, 03.03.04

Component:	Concentration pg/m3	Recovery %	
Naphtalene *	29,0 b	36	
2-Methylnaphtalene	13,0 b		
1-Methylnaphtalene	8,00 b		
Biphenyl	14,0 b		
Acenaphthylene *	1,00 b	43	
Acenaphtene *	2,00 b		
Dibenzofuran	43,0 b		
Fluorene *	17,0 b		
Dibenzothiophene	2,00 b	63	
Phenanthrene *	25,0 b		
Antrachene *	< 1,00		
3-Methylphenanthrene	5,00 b		
2-Methylphenanthrene	7,00 b		
2-Methylanthracene	< 1,00		
9-Methylphenanthrene	5,00 b		
1-Methylphenanthrene	4,00 b		
Fluoranthene *	6,00 b	79	
Pyrene *	4,00 b		
Benzo(a)fluorene	< 1,00		
Retene	2,00 b		
Benzo(b)fluorene	< 1,00	72	
Benzo(ghi)fluoranthene	< 1,00		
Cyclopenta(cd)pyrene	< 1,00		
Benz(a)anthracene *	< 1,00		
Chrysene */Triphenylene	< 1,00		
Benzo(b */j/k *)fluoranthenes	< 1,00		
Benzo(a)fluoranthene	< 1,00		
Benzo(e)pyrene	< 1,00		
Benzo(a)pyrene *	< 1,00	100	
Perylene	< 1,00		
Indeno(1,2,3-cd)pyrene *	< 1,00		
Dibenzo(ac/ah *)anthracene	< 1,00		
Benzo(ghi)perylene *	< 1,00	88	
Anthanthrene	< 1,00		
Coronene	< 1,00		
Dibenzo(ae)pyrene	< 1,00		
Dibenzo(ai)pyrene	< 1,00		
Dibenzo(ah)pyrene	< 1,00		
Sum bicyclic PAH:	64,0		
Sum 3-7 ring PAH:	144		
Sum all:	208		
Sum 16 EPA PAH *	92,0		

<: Lower than detection limit at signal:noise 3:1

(i): Possible interference

(s): Saturated signal

(b): Lower than 10 times method blank

(g): Recovery is not according to NILUs quality criteria

2. Versjon 24.09.01 GSK

Results of PAH Analysis



375

Encl. to measuring report: O-2083
 NILU sample number: 03/1264
 Customer: Amap 03
 Customers sample ID: 25-27.8.03 0823-0700
 : 160-156
 Sample type: Luft
 Sample amount: 1133 m3
 Concentration unit: pg/m3
 Data files: TA_7534.D

Kjeller, 03.03.04

Component:	Concentration pg/m3	Recovery %
Naphtalene *	22,0 b	36
2-Methylnaphtalene	15,0 b	
1-Methylnaphtalene	9,00 b	
Biphenyl	14,0 b	
Acenaphthylene *	1,00 b	42
Acenaphtene *	2,00 b	
Dibenzofuran	42,0 b	
Fluorene *	18,0 b	
Dibenzothiophene	3,00 b	61
Phenanthrene *	36,0 b	
Antrachene *	1,00 b	
3-Methylphenanthrene	5,00 b	
2-Methylphenanthrene	7,00 b	
2-Methylanthracene	< 1,00	
9-Methylphenanthrene	5,00 b	
1-Methylphenanthrene	4,00 b	
Fluoranthene *	6,00 b	77
Pyrene *	4,00 b	
Benzo(a)fluorene	< 1,00	
Retene	4,00 b	
Benzo(b)fluorene	< 1,00	71
Benzo(ghi)fluoranthene	< 1,00	
Cyclopenta(cd)pyrene	< 1,00	
Benz(a)anthracene *	< 1,00	
Chrysene */Triphenylene	1,00 b	
Benzo(b */j/k *)fluoranthenes	< 1,00	100
Benzo(a)fluoranthene	< 1,00	
Benzo(e)pyrene	< 1,00	
Benzo(a)pyrene *	< 1,00	
Perylene	< 1,00	
Indeno(1,2,3-cd)pyrene *	< 1,00	92
Dibenzo(ac/ah *)anthracene	< 1,00	
Benzo(ghi)perylene *	< 1,00	
Anthanthrene	< 1,00	
Coronene	< 1,00	
Dibenzo(ae)pyrene	< 1,00	
Dibenzo(ai)pyrene	< 1,00	
Dibenzo(ah)pyrene	< 1,00	
Sum bicyclic PAH:	60,0	
Sum 3-7 ring PAH:	158	
Sum all:	218	
Sum 16 EPA PAH *	97,0	

<: Lower than detection limit at signal:noise 3:1
 (i): Possible interference
 (s): Saturated signal
 (b): Lower than 10 times method blank
 (g): Recovery is not according to NILUs quality criteria

2. Versjon 24.09.01 GSK

Results of PAH Analysis



376

Encl. to measuring report: O-2083
 NILU sample number: 03/1515
 Customer: Amap 03
 Customers sample ID: 1-3.9.03 0737-0753
 : 160-153
 Sample type: Luft
 Sample amount: 1140 m3
 Concentration unit: pg/m3
 Data files: TA_7836.D

Kjeller, 24.03.04

Component:	Concentration pg/m3	Recovery %
Naphtalene *	32,0 b	
2-Methylnaphtalene	22,0 b	32
1-Methylnaphtalene	14,0 b	
Biphenyl	29,0 b	
Acenaphthylene *	1,00 b	
Acenaphtene *	3,00 b	42
Dibenzofuran	78,0	
Fluorene *	22,0 b	
Dibenzothiophene	< 1,00	
Phenanthrene *	22,0 b	
Antrachene *	< 1,00	55
3-Methylphenanthrene	4,00 b	
2-Methylphenanthrene	5,00 b	
2-Methylantracene	< 1,00	
9-Methylphenanthrene	3,00 b	
1-Methylphenanthrene	3,00 b	
Fluoranthene *	4,00 b	
Pyrene *	2,00 b	71
Benzo(a)fluorene	< 1,00	
Retene	1,00 b	
Benzo(b)fluorene	< 1,00	
Benzo(ghi)fluoranthene	< 1,00	
Cyclopenta(cd)pyrene	< 1,00	
Benz(a)anthracene *	< 1,00	54
Chrysene */Triphenylene	< 1,00	
Benzo(b */j/k *)fluoranthenes	< 1,00	
Benzo(a)fluoranthene	< 1,00	
Benzo(e)pyrene	< 1,00	115
Benzo(a)pyrene *	< 1,00	
Perylene	< 1,00	
Indeno(1,2,3-cd)pyrene *	< 1,00	
Dibenzo(ac/ah *)anthracene	< 1,00	
Benzo(ghi)perylene *	< 1,00	81
Anthanthrene	< 1,00	
Coronene	< 1,00	
Dibenzo(ae)pyrene	< 1,00	
Dibenzo(ai)pyrene	< 1,00	
Dibenzo(ah)pyrene	< 1,00	
Sum bicyclic PAH:	97,0	
Sum 3-7 ring PAH:	170	
Sum all:	267	
Sum 16 EPA PAH *	94,0	

<: Lower than detection limit at signal:noise 3:1

(i): Possible interference

(s): Saturated signal

(b): Lower than 10 times method blank

(g): Recovery is not according to NILUs quality criteria

2. Versjon 24.09.01 GSK

Results of PAH Analysis



377

Encl. to measuring report: O-2083
 NILU sample number: 03/1518
 Customer: Amap 03
 Customers sample ID: 8-10.9.03 0743-0651
 : 160-160
 Sample type: Luft
 Sample amount: 1135 m3
 Concentration unit: pg/m3
 Data files: TA_7837.D

Kjeller, 24.03.04

Component:	Concentration pg/m3	Recovery %
Naphtalene *	39,0 b	
2-Methylnaphtalene	21,0 b	30
1-Methylnaphtalene	13,0 b	
Biphenyl	25,0 b	
Acenaphthylene *	1,00 b	
Acenaphtene *	3,00 b	38
Dibenzofuran	65,0	
Fluorene *	24,0 b	
Dibenzothiophene	2,00 b	
Phenanthrene *	25,0 b	
Antrachene *	< 1,00	50
3-Methylphenanthrene	5,00 b	
2-Methylphenanthrene	7,00 b	
2-Methylanthracene	< 1,00	
9-Methylphenanthrene	5,00 b	
1-Methylphenanthrene	4,00 b	
Fluoranthene *	5,00 b	
Pyrene *	2,00 b	69
Benzo(a)fluorene	< 1,00	
Retene	2,00 b	
Benzo(b)fluorene	< 1,00	
Benzo(ghi)fluoranthene	< 1,00	
Cyclopenta(cd)pyrene	< 1,00	
Benz(a)anthracene *	< 1,00	52
Chrysene */Triphenylene	< 1,00	
Benzo(b */j/k *)fluoranthenes	< 1,00	
Benzo(a)fluoranthene	< 1,00	
Benzo(e)pyrene	< 1,00	106
Benzo(a)pyrene *	< 1,00	
Perylene	< 1,00	
Indeno(1,2,3-cd)pyrene *	< 1,00	
Dibenzo(ac/ah *)anthracene	< 1,00	
Benzo(ghi)perylene *	< 1,00	69
Anthanthrene	< 1,00	
Coronene	< 1,00	
Dibenzo(ae)pyrene	< 1,00	
Dibenzo(ai)pyrene	< 1,00	
Dibenzo(ah)pyrene	< 1,00	
Sum bicyclic PAH:	98,0	
Sum 3-7 ring PAH:	171	
Sum all:	269	
Sum 16 EPA PAH *	107	

<: Lower than detection limit at signal:noise 3:1

(i): Possible interference

(s): Saturated signal

(b): Lower than 10 times method blank

(g): Recovery is not according to NILUs quality criteria

2. Version 24.09.01 GSK

Results of PAH Analysis



378

Encl. to measuring report: O-2083
 NILU sample number: 03/1521
 Customer: Amap 03
 Customers sample ID: 15-17.9.03 0656-0803
 : 160-161
 Sample type: Luft
 Sample amount: 1186 m3
 Concentration unit: pg/m3
 Data files: TA_7838.D

Kjeller, 24.03.04

Component:	Concentration pg/m3	Recovery %
Naphtalene *	37,0 b	
2-Methylnaphtalene	23,0 b	35
1-Methylnaphtalene	13,0 b	
Biphenyl	39,0 b	
Acenaphthylene *	1,00 b	
Acenaphtene *	2,00 b	44
Dibenzofuran	78,0	
Fluorene *	22,0 b	
Dibenzothiophene	1,00 b	
Phenanthrene *	14,0 b	
Antrachene *	< 1,00	59
3-Methylphenanthrene	2,00 b	
2-Methylphenanthrene	3,00 b	
2-Methylanthracene	< 1,00	
9-Methylphenanthrene	2,00 b	
1-Methylphenanthrene	2,00 b	
Fluoranthene *	3,00 b	
Pyrene *	2,00 b	75
Benzo(a)fluorene	< 1,00	
Retene	1,00 b	
Benzo(b)fluorene	< 1,00	
Benzo(ghi)fluoranthene	< 1,00	
Cyclopenta(cd)pyrene	< 1,00	
Benz(a)anthracene *	< 1,00	66
Chrysene */Triphenylene	< 1,00	
Benzo(b */j/k *)fluoranthenes	< 1,00	
Benzo(a)fluoranthene	< 1,00	
Benzo(e)pyrene	< 1,00	123
Benzo(a)pyrene *	< 1,00	
Perylene	< 1,00	
Indeno(1,2,3-cd)pyrene *	< 1,00	
Dibenzo(ac/ah *)anthracene	< 1,00	
Benzo(ghi)perylene *	< 1,00	94
Anthanthrene	< 1,00	
Coronene	< 1,00	
Dibenzo(ae)pyrene	< 1,00	
Dibenzo(ai)pyrene	< 1,00	
Dibenzo(ah)pyrene	< 1,00	
Sum bicyclic PAH:	112	
Sum 3-7 ring PAH:	154	
Sum all:	266	
Sum 16 EPA PAH *	89,0	

<: Lower than detection limit at signal:noise 3:1

(i): Possible interference

(s): Saturated signal

(b): Lower than 10 times method blank

(g): Recovery is not according to NILUs quality criteria

2. Versjon 24.09.01 GSK

Results of PAH Analysis



379

Encl. to measuring report: O-2083
 NILU sample number: 03/1524
 Customer: Amap 03
 Customers sample ID: 22-24.9.03 0752-0728
 : 160-159
 Sample type: Luft
 Sample amount: 1145 m3
 Concentration unit: pg/m3
 Data files: TA_7839.D

Kjeller, 24.03.04

Component:	Concentration pg/m3	Recovery %
Naphtalene *	124 b	29
2-Methylnaphtalene	58,0 b	
1-Methylnaphtalene	51,0 b	
Biphenyl	845	
Acenaphthylene *	1,00 b	41
Acenaphtene *	5,00 b	
Dibenzofuran	690	
Fluorene *	178	
Dibenzothiophene	2,00 b	55
Phenanthrene *	111 b	
Antrachene *	< 1,00	
3-Methylphenanthrene	6,00 b	
2-Methylphenanthrene	12,0 b	
2-Methylanthracene	< 1,00	
9-Methylphenanthrene	4,00 b	
1-Methylphenanthrene	10,0 b	
Fluoranthene *	7,00 b	73
Pyrene *	2,00 b	
Benzo(a)fluorene	< 1,00	
Retene	4,00 b	
Benzo(b)fluorene	< 1,00	68
Benzo(ghi)fluoranthene	< 1,00	
Cyclopenta(cd)pyrene	< 1,00	
Benz(a)anthracene *	< 1,00	
Chrysene */Triphenylene	1,00 b	
Benzo(b */i/k *)fluoranthenes	< 1,00	
Benzo(a)fluoranthene	< 1,00	
Benzo(e)pyrene	< 1,00	
Benzo(a)pyrene *	< 1,00	
Perylene	< 1,00	147 g
Indeno(1,2,3-cd)pyrene *	< 1,00	
Dibenzo(ac/ah *)anthracene	< 1,00	
Benzo(ghi)perylene *	< 1,00	
Anthanthrene	< 1,00	
Coronene	< 1,00	
Dibenzo(ae)pyrene	< 1,00	
Dibenzo(ai)pyrene	< 1,00	
Dibenzo(ah)pyrene	< 1,00	
Sum bicyclic PAH:	1 078	
Sum 3-7 ring PAH:	1 053	
Sum all:	2 131	
Sum 16 EPA PAH *	436	

<: Lower than detection limit at signal:noise 3:1
 (i): Possible interference
 (s): Saturated signal
 (b): Lower than 10 times method blank
 (g): Recovery is not according to NILUs quality criteria

2. Versjon 24.09.01 GSK

Results of PAH Analysis



380

Encl. to measuring report: O-2083
 NILU sample number: 03/1526
 Customer: Amap 03
 Customers sample ID: 26-28.9.03 1010-1147
 : 160-155
 Sample type: Luft
 Sample amount: 1178 m3
 Concentration unit: pg/m3
 Data files: TA_7840.D

Kjeller, 24.03.04

Component:	Concentration pg/m3	Recovery %
Naphtalene *	78,0 b	30
2-Methylnaphtalene	40,0 b	
1-Methylnaphtalene	24,0 b	
Biphenyl	399	
Acenaphthylene *	2,00 b	40
Acenaphtene *	10,0 b	
Dibenzofuran	573	
Fluorene *	151	
Dibenzothiophene	7,00 b	49
Phenanthrene *	251	
Antrachene *	16,0	
3-Methylphenanthrene	22,0 b	
2-Methylphenanthrene	42,0 b	
2-Methylantracene	2,00	
9-Methylphenanthrene	16,0 b	
1-Methylphenanthrene	76,0	
Fluoranthene *	51,0 b	68
Pyrene *	35,0 b	
Benzo(a)fluorene	7,00 i	
Retene	310	
Benzo(b)fluorene	3,00 i	
Benzo(ghi)fluoranthene	6,00	60
Cyclopenta(cd)pyrene	< 1,00	
Benz(a)anthracene *	6,00	
Chrysene */Triphenylene	17,0 b	
Benzo(b */j/k *)fluoranthenes	11,0	93
Benzo(a)fluoranthene	< 1,00	
Benzo(e)pyrene	3,00	
Benzo(a)pyrene *	1,00	
Perylene	< 1,00	
Indeno(1,2,3-cd)pyrene *	2,00	78
Dibenzo(ac/ah *)anthracene	< 1,00	
Benzo(ghi)perylene *	3,00 i,b	
Anthanthrene	< 1,00	
Coronene	< 1,00	
Dibenzo(ae)pyrene	< 1,00	
Dibenzo(ai)pyrene	< 1,00	
Dibenzo(ah)pyrene	< 1,00	
Sum bicyclic PAH:	541	
Sum 3-7 ring PAH:	1 632	
Sum all:	2 173	
Sum 16 EPA PAH *	635	

<: Lower than detection limit at signal:noise 3:1

(i): Possible interference

(s): Saturated signal

(b): Lower than 10 times method blank

(g): Recovery is not according to NILUs quality criteria

2. Versjon 24.09.01 GSK

Results of PAH Analysis

381



Encl. to measuring report: O-2083
 NILU sample number: 03/1529
 Customer: Amap 03
 Customers sample ID: 6-8.10.03 0845-0727
 : 160-163
 Sample type: Luft
 Sample amount: 1132 m3
 Concentration unit: pg/m3
 Data files: TA_7841.D

Kjeller, 06.05.2004

Component:	Concentration pg/m3	Recovery %
Naphtalene *	80,0 b	
2-Methylnaphtalene	34,0 b	34
1-Methylnaphtalene	24,0 b	
Biphenyl	185	
Acenaphthylene *	1,00 b	
Acenaphtene *	3,00 b	42
Dibenzofuran	262	
Fluorene *	74,0	
Dibenzothiophene	3,00 b	
Phenanthrene *	37,0	
Antrachene *	1,00 b	53
3-Methylphenanthrene	4,00 b	
2-Methylphenanthrene	6,00 b	
2-Methylanthracene	< 1,00	
9-Methylphenanthrene	3,00 b	
1-Methylphenanthrene	4,00 b	
Fluoranthene *	9,00 b	
Pyrene *	3,00 b	71
Benzo(a)fluorene	6,00 b	
Retene	3,00 b	
Benzo(b)fluorene	< 1,00	
Benzo(ghi)fluoranthene	< 1,00	
Cyclopenta(cd)pyrene	< 1,00	
Benz(a)anthracene *	< 1,00	53
Chrysene */Triphenylene	< 1,00	
Benzo(b */j/k *)fluoranthenes	< 1,00	
Benzo(a)fluoranthene	< 1,00	
Benzo(e)pyrene	< 1,00	103
Benzo(a)pyrene *	< 1,00	
Perylene	< 1,00	
Indeno(1,2,3-cd)pyrene *	< 1,00	
Dibenzo(ac/ah *)anthracene	< 1,00	
Benzo(ghi)perylene *	< 1,00	77
Anthanthrene	< 1,00	
Coronene	< 1,00	
Dibenzo(ae)pyrene	< 1,00	
Dibenzo(ai)pyrene	< 1,00	
Dibenzo(ah)pyrene	< 1,00	
Sum bicyclic PAH:	323	
Sum 3-7 ring PAH:	438	
Sum all:	761	
Sum 16 EPA PAH *	215	

<: Lower than detection limit at signal:noise 3:1

(i): Possible interference

(s): Saturated signal

(b): Lower than 10 times method blank

(g): Recovery is not according to NILUs quality criteria

2. Versjon 24.09.01 GSK

Results of PAH Analysis



382

Encl. to measuring report: O-2083
 NILU sample number: 03/1760
 Customer: Amap 03
 Customers sample ID: 17-19.10.03 0748-0755
 : 160-160
 Sample type: Luft
 Sample amount: 1159 m3
 Concentration unit: pg/m3
 Data files: TA_7868.D

Kjeller, 24.03.04

Component:	Concentration pg/m3	Recovery %
Naphtalene *	119 b	31
2-Methylnaphtalene	39,0 b	
1-Methylnaphtalene	24,0 b	
Biphenyl	226	
Acenaphthylene *	1,00 b	37
Acenaphtene *	4,00 b	
Dibenzofuran	313	
Fluorene *	65,0	
Dibenzothiophene	3,00 b	54
Phenanthrene *	18,0 b	
Antrachene *	< 1,00	
3-Methylphenanthrene	2,00 b	
2-Methylphenanthrene	3,00 b	
2-Methylantracene	< 1,00	
9-Methylphenanthrene	1,00 b	
1-Methylphenanthrene	1,00 b	
Fluoranthene *	5,00 b	68
Pyrene *	2,00 b	
Benzo(a)fluorene	< 1,00	
Retene	1,00 b	
Benzo(b)fluorene	< 1,00	60
Benzo(ghi)fluoranthene	< 1,00	
Cyclopenta(cd)pyrene	< 1,00	
Benz(a)anthracene *	< 1,00	
Chrysene */Triphenylene	1,00 b	92
Benzo(b */j/k *)fluoranthenes	1,00 b	
Benzo(a)fluoranthene	< 1,00	
Benzo(e)pyrene	< 1,00	
Benzo(a)pyrene *	< 1,00	
Perylene	< 1,00	78
Indeno(1,2,3-cd)pyrene *	< 1,00	
Dibenzo(ac/ah *)anthracene	1,00 i	
Benzo(ghi)perylene *	< 1,00	
Anthanthrene	< 1,00	
Coronene	< 1,00	
Dibenzo(ae)pyrene	< 1,00	
Dibenzo(ai)pyrene	< 1,00	
Dibenzo(ah)pyrene	< 1,00	
Sum bicyclic PAH:	408	
Sum 3-7 ring PAH:	440	
Sum all:	848	
Sum 16 EPA PAH *	222	

<: Lower than detection limit at signal:noise 3:1
 (i): Possible interference
 (s): Saturated signal
 (b): Lower than 10 times method blank
 (g): Recovery is not according to NILUs quality criteria

Results of PAH Analysis



383

Encl. to measuring report: O-2083
 NILU sample number: 03/1762
 Customer: Amap 03
 Customers sample ID: 22-24.10.03 0853-0846
 : 160-160
 Sample type: Luft
 Sample amount: 1154 m3
 Concentration unit: pg/m3
 Data files: TA_7869.D

Kjeller, 24.03.04

Component:	Concentration pg/m3	Recovery %
Naphtalene *	160 b	
2-Methylnaphtalene	35,0 b	32
1-Methylnaphtalene	29,0 b	
Biphenyl	228	
Acenaphthylene *	1,00 b	
Acenaphtene *	3,00 b	38
Dibenzofuran	253	
Fluorene *	58,0	
Dibenzothiophene	2,00 b	
Phenanthrene *	12,0 b	
Antrachene *	< 1,00	57
3-Methylphenanthrene	1,00 b	
2-Methylphenanthrene	2,00 b	
2-Methylantracene	< 1,00	
9-Methylphenanthrene	1,00 b	
1-Methylphenanthrene	1,00 b	
Fluoranthene *	3,00 b	
Pyrene *	1,00 b	72
Benzo(a)fluorene	< 1,00	
Retene	1,00 b	
Benzo(b)fluorene	< 1,00	
Benzo(ghi)fluoranthene	< 1,00	
Cyclopenta(cd)pyrene	< 1,00	
Benz(a)anthracene *	< 1,00	67
Chrysene */Triphenylene	1,00 b	
Benzo(b */j/k *)fluoranthenes	< 1,00	
Benzo(a)fluoranthene	< 1,00	
Benzo(e)pyrene	< 1,00	100
Benzo(a)pyrene *	< 1,00	
Perylene	< 1,00	
Indeno(1,2,3-cd)pyrene *	< 1,00	
Dibenzo(ac/ah *)anthracene	< 1,00	
Benzo(ghi)perylene *	1,00 b	83
Anthanthrene	< 1,00	
Coronene	< 1,00	
Dibenzo(ae)pyrene	< 1,00	
Dibenzo(ai)pyrene	< 1,00	
Dibenzo(ah)pyrene	< 1,00	
Sum bicyclic PAH:	452	
Sum 3-7 ring PAH:	360	
Sum all:	812	
Sum 16 EPA PAH *	246	

<: Lower than detection limit at signal:noise 3:1

(i): Possible interference

(s): Saturated signal

(b): Lower than 10 times method blank

(g): Recovery is not according to NILUs quality criteria

2. Versjon 24.09.01 GSK

Results of PAH Analysis



384

Encl. to measuring report: O-2083
 NILU sample number: 03/1764
 Customer: Amap 03
 Customers sample ID: 27-29.10.03 1241-0944
 : 160-152
 Sample type: Luft
 Sample amount: 1058 m3
 Concentration unit: pg/m3
 Data files: TA_7870.D

Kjeller, 24.03.04

Component:	Concentration pg/m3	Recovery %
Naphtalene *	312 b	
2-Methylnaphtalene	75,0 b	33
1-Methylnaphtalene	67,0 b	
Biphenyl	905	
Acenaphthylene *	1,00 b	
Acenaphtene *	7,00 b	39
Dibenzofuran	1 098	
Fluorene *	257	
Dibenzothiophene	11,0	
Phenanthrene *	73,0 b	
Antrachene *	1,00 b	46
3-Methylphenanthrene	3,00 b	
2-Methylphenanthrene	6,00 b	
2-Methylanthracene	< 1,00	
9-Methylphenanthrene	2,00 b	
1-Methylphenanthrene	3,00 b	
Fluoranthene *	15,0 b	
Pyrene *	6,00 b	65
Benzo(a)fluorene	< 1,00	
Retene	1,00 b	
Benzo(b)fluorene	< 1,00	
Benzo(ghi)fluoranthene	1,00	
Cyclopenta(cd)pyrene	< 1,00	
Benz(a)anthracene *	1,00	46
Chrysene */Triphenylene	3,00 b	
Benzo(b */j/k *)fluoranthenes	3,00 b	
Benzo(a)fluoranthene	< 1,00	
Benzo(e)pyrene	1,00 b	87
Benzo(a)pyrene *	< 1,00	
Perylene	< 1,00 b	
Indeno(1,2,3-cd)pyrene *	< 1,00	
Dibenzo(ac/ah *)anthracene	< 1,00	
Benzo(ghi)perylene *	1,00 i,b	69
Anthanthrene	< 1,00	
Coronene	< 1,00	
Dibenzo(ae)pyrene	< 1,00	
Dibenzo(ai)pyrene	< 1,00	
Dibenzo(ah)pyrene	< 1,00	
Sum bicyclic PAH:	1 359	
Sum 3-7 ring PAH:	1 508	
Sum all:	2 867	
Sum 16 EPA PAH *	683	

<: Lower than detection limit at signal:noise 3:1

(i): Possible interference

(s): Saturated signal

(b): Lower than 10 times method blank

(g): Recovery is not according to NILUs quality criteria

2. Versjon 24.09.01 GSK

Results of PAH Analysis



385

Encl. to measuring report: O-2083
 NILU sample number: 03/1767
 Customer: Amap 03
 Customers sample ID: 3-5.11.03 1410-1016
 : 160-160
 Sample type: Luft
 Sample amount: 1065 m3
 Concentration unit: pg/m3
 Data files: TA_7871.D

Kjeller, 24.03.04

Component:	Concentration pg/m3	Recovery %
Naphtalene *	748	
2-Methylnaphtalene	265	34
1-Methylnaphtalene	221	
Biphenyl	763	
Acenaphthylene *	1,00 b	
Acenaphtene *	13,0 b	42
Dibenzofuran	942	
Fluorene *	352	
Dibenzothiophene	18,0	
Phenanthrene *	105 b	
Antrachene *	1,00 b	52
3-Methylphenanthrene	4,00 b	
2-Methylphenanthrene	8,00 b	
2-Methylantracene	< 1,00	
9-Methylphenanthrene	< 1,00	
1-Methylphenanthrene	4,00 b	
Fluoranthene *	48,0 b	
Pyrene *	20,0 b	70
Benzo(a)fluorene	2,00 i,b	
Retene	3,00 b	
Benzo(b)fluorene	1,00 i,b	
Benzo(ghi)fluoranthene	4,00	
Cyclopenta(cd)pyrene	1,00	
Benz(a)anthracene *	4,00	58
Chrysene */Triphenylene	13,0 b	
Benzo(b */j/k *)fluoranthenes	13,0 b	
Benzo(a)fluoranthene	< 1,00	
Benzo(e)pyrene	5,00	93
Benzo(a)pyrene *	1,00	
Perylene	< 1,00	
Indeno(1,2,3-cd)pyrene *	3,00	
Dibenzo(ac/ah *)anthracene	< 1,00	
Benzo(ghi)perylene *	6,00 i	79
Anthanthrene	1,00	
Coronene	1,00	
Dibenzo(ae)pyrene	< 1,00	
Dibenzo(ai)pyrene	< 1,00	
Dibenzo(ah)pyrene	< 1,00	
Sum bicyclic PAH:	1 997	
Sum 3-7 ring PAH:	1 582	
Sum all:	3 579	
Sum 16 EPA PAH *	1 329	

<: Lower than detection limit at signal:noise 3:1

(i): Possible interference

(s): Saturated signal

(b): Lower than 10 times method blank

(g): Recovery is not according to NILUs quality criteria

2. Versjon 24.09.01 GSK

Results of PAH Analysis



386

Encl. to measuring report: O-2083
 NILU sample number: 04/105
 Customer: Amap 03
 Customers sample ID: 10-12.11.03 0935-0906
 : 160-158
 Sample type: Luft
 Sample amount: 1138 m3
 Concentration unit: pg/m3
 Data files: TA_7872.D

Kjeller, 24.03.2004

Component:	Concentration pg/m3	Recovery %
Naphtalene *	186 b	
2-Methylnaphtalene	47,0 b	35
1-Methylnaphtalene	45,0 b	
Biphenyl	441	
Acenaphthylene *	< 1,00	
Acenaphtene *	2,00 b	42
Dibenzofuran	635	
Fluorene *	169	
Dibenzothiophene	9,00	
Phenanthrene *	25,0 b	
Antrachene *	< 1,00	55
3-Methylphenanthrene	2,00 b	
2-Methylphenanthrene	3,00 b	
2-Methylanthracene	< 1,00	
9-Methylphenanthrene	2,00 b	
1-Methylphenanthrene	2,00 b	
Fluoranthene *	11,0 b	
Pyrene *	4,00 b	71
Benzo(a)fluorene	< 1,00	
Retene	1,00 b	
Benzo(b)fluorene	< 1,00	
Benzo(ghi)fluoranthene	1,00	
Cyclopenta(cd)pyrene	< 1,00	
Benz(a)anthracene *	1,00	61
Chrysene */Triphenylene	3,00 b	
Benzo(b */j/k *)fluoranthenes	2,00 b	
Benzo(a)fluoranthene	< 1,00	
Benzo(e)pyrene	1,00 b	97
Benzo(a)pyrene *	< 1,00	
Perylene	< 1,00	
Indeno(1,2,3-cd)pyrene *	< 1,00	
Dibenzo(ac/ah *)anthracene	< 1,00	
Benzo(ghi)perylene *	1,00 i,b	80
Anthanthrene	< 1,00	
Coronene	< 1,00	
Dibenzo(ae)pyrene	< 1,00	
Dibenzo(ai)pyrene	< 1,00	
Dibenzo(ah)pyrene	< 1,00	
Sum bicyclic PAH:	719	
Sum 3-7 ring PAH:	890	
Sum all:	1 609	
Sum 16 EPA PAH *	409	

<: Lower than detection limit at signal:noise 3:1
 (i): Possible interference
 (s): Saturated signal
 (b): Lower than 10 times method blank
 (g): Recovery is not according to NILUs quality criteria

2. Versjon 24.09.01 GSK

Results of PAH Analysis



Encl. to measuring report: O-2083
 NILU sample number: 04/108
 Customer: Amap 03
 Customers sample ID: 17-19.11.03 0846-0834
 : 160-158
 Sample type: Luft
 Sample amount: 1145 m3
 Concentration unit: pg/m3
 Data files: TA_7875.D

Kjeller, 24.03.04

Component:	Concentration pg/m3	Recovery %
Naphtalene *	394 b	
2-Methylnaphtalene	88,0 b	39
1-Methylnaphtalene	84,0 b	
Biphenyl	588	
Acenaphthylene *	1,00 b	
Acenaphtene *	4,00 b	46
Dibenzofuran	913	
Fluorene *	358	
Dibenzothiophene	18,0	
Phenanthrene *	49,0 b	
Antrachene *	1,00 b	70
3-Methylphenanthrene	4,00 b	
2-Methylphenanthrene	6,00 b	
2-Methylantracene	< 1,00	
9-Methylphenanthrene	3,00 b	
1-Methylphenanthrene	3,00 b	
Fluoranthene *	49,0 b	
Pyrene *	28,0 b	86
Benzo(a)fluorene	3,00 i,b	
Retene	2,00 b	
Benzo(b)fluorene	2,00 i,b	
Benzo(ghi)fluoranthene	4,00	
Cyclopenta(cd)pyrene	1,00	
Benz(a)anthracene *	4,00	90
Chrysene */Triphenylene	17,0 b	
Benzo(b */j/k *)fluoranthenes	21,0	
Benzo(a)fluoranthene	< 1,00	
Benzo(e)pyrene	8,00	111
Benzo(a)pyrene *	1,00 i	
Perylene	< 1,00	
Indeno(1,2,3-cd)pyrene *	4,00	
Dibenzo(ac/ah *)anthracene	< 1,00	
Benzo(ghi)perylene *	6,00	102
Anthanthrene	1,00	
Coronene	1,00	
Dibenzo(ae)pyrene	< 1,00	
Dibenzo(ai)pyrene	< 1,00	
Dibenzo(ah)pyrene	< 1,00	
Sum bicyclic PAH:	1 154	
Sum 3-7 ring PAH:	1 519	
Sum all:	2 673	
Sum 16 EPA PAH *	938	

<: Lower than detection limit at signal:noise 3:1

(i): Possible interference

(s): Saturated signal

(b): Lower than 10 times method blank

(g): Recovery is not according to NILUs quality criteria

2. Versjon 24.09.01 GSK

Results of PAH Analysis



388

Encl. to measuring report: O-2083
 NILU sample number: 04/111
 Customer: Amap 03
 Customers sample ID: 24-26.11.03 0825-0846
 : 160-161
 Sample type: Luft
 Sample amount: 1169 m3
 Concentration unit: pg/m3
 Data files: TA_7876.D

Kjeller, 24.03.04

Component:	Concentration pg/m3	Recovery %
Naphtalene *	247 b	
2-Methylnaphtalene	57,0 b	41
1-Methylnaphtalene	52,0 b	
Biphenyl	422	
Acenaphthylene *	1,00 b	
Acenaphtene *	3,00 b	47
Dibenzofuran	681	
Fluorene *	253	
Dibenzothiophene	12,0	
Phenanthrene *	35,0 b	
Antrachene *	1,00 b	65
3-Methylphenanthrene	3,00 b	
2-Methylphenanthrene	4,00 b	
2-Methylanthracene	< 1,00	
9-Methylphenanthrene	2,00 b	
1-Methylphenanthrene	2,00 b	
Fluoranthene *	26,0 b	
Pyrene *	14,0 b	78
Benzo(a)fluorene	1,00 i,b	
Retene	2,00 b	
Benzo(b)fluorene	1,00 i,b	
Benzo(ghi)fluoranthene	2,00	
Cyclopenta(cd)pyrene	< 1,00	
Benz(a)anthracene *	2,00	67
Chrysene */Triphenylene	9,00 b	
Benzo(b */j/k *)fluoranthenes	9,00	
Benzo(a)fluoranthene	< 1,00	
Benzo(e)pyrene	3,00	98
Benzo(a)pyrene *	1,00	
Perylene	< 1,00	
Indeno(1,2,3-cd)pyrene *	1,00	
Dibenzo(ac/ah *)anthracene	< 1,00	
Benzo(ghi)perylene *	4,00 i,b	79
Anthanthrene	< 1,00	
Coronene	1,00	
Dibenzo(ae)pyrene	< 1,00	
Dibenzo(ai)pyrene	< 1,00	
Dibenzo(ah)pyrene	< 1,00	
Sum bicyclic PAH:	778	
Sum 3-7 ring PAH:	1 082	
Sum all:	1 860	
Sum 16 EPA PAH *	607	

<: Lower than detection limit at signal:noise 3:1

(i): Possible interference

(s): Saturated signal

(b): Lower than 10 times method blank

(g): Recovery is not according to NILUs quality criteria

2. Version 24.09.01 GSK

Results of PAH Analysis



389

Encl. to measuring report: O-2083
 NILU sample number: 04/114
 Customer: Amap 03
 Customers sample ID: 1-3.12.03 0952-0848
 : 160-150
 Sample type: Luft
 Sample amount: 1100 m3
 Concentration unit: pg/m3
 Data files: TA_7877.D

Kjeller, 24.03.04

Component:	Concentration pg/m3	Recovery %
Naphtalene *	194 b	
2-Methylnaphtalene	55,0 b	52
1-Methylnaphtalene	48,0 b	
Biphenyl	256	
Acenaphthylene *	1,00 b	
Acenaphtene *	3,00 b	59
Dibenzofuran	540	
Fluorene *	208	
Dibenzothiophene	10,0	
Phenanthrene *	28,0 b	
Antrachene *	< 1,00	78
3-Methylphenanthrene	3,00 b	
2-Methylphenanthrene	4,00 b	
2-Methylanthracene	< 1,00	
9-Methylphenanthrene	2,00 b	
1-Methylphenanthrene	2,00 b	
Fluoranthene *	13,0 b	
Pyrene *	4,00 b	90
Benzo(a)fluorene	< 1,00	
Retene	1,00 b	
Benzo(b)fluorene	< 1,00	
Benzo(ghi)fluoranthene	1,00	
Cyclopenta(cd)pyrene	< 1,00	
Benz(a)anthracene *	< 1,00	85
Chrysene */Triphenylene	2,00 b	
Benzo(b */j/k *)fluoranthenes	1,00 b	
Benzo(a)fluoranthene	< 1,00	
Benzo(e)pyrene	1,00 b	172 g
Benzo(a)pyrene *	< 1,00	
Perylene	< 1,00	
Indeno(1,2,3-cd)pyrene *	< 1,00	
Dibenzo(ac/ah *)anthracene	< 1,00	
Benzo(ghi)perylene *	1,00 i,b	147 g
Anthanthrene	< 1,00	
Coronene	< 1,00	
Dibenzo(ae)pyrene	< 1,00	
Dibenzo(ai)pyrene	< 1,00	
Dibenzo(ah)pyrene	< 1,00	
Sum bicyclic PAH:	553	
Sum 3-7 ring PAH:	841	
Sum all:	1 394	
Sum 16 EPA PAH *	460	

<: Lower than detection limit at signal:noise 3:1

(i): Possible interference

(s): Saturated signal

(b): Lower than 10 times method blank

(g): Recovery is not according to NILUs quality criteria

2. Version 24.09.01 GSK

Results of PAH Analysis



390

Encl. to measuring report: O-2083
 NILU sample number: 04/117
 Customer: Amap 03
 Customers sample ID: 8-10.12.03 1423-1019
 : 160-160
 Sample type: Luft
 Sample amount: 1058 m3
 Concentration unit: pg/m3
 Data files: TA_7878.D

Kjeller, 24.03.04

Component:	Concentration pg/m3	Recovery %
Naphtalene *	2 331	
2-Methylnaphtalene	499	35
1-Methylnaphtalene	594	
Biphenyl	1 634	
Acenaphthylene *	6,00 b	
Acenaphtene *	10,0 b	43
Dibenzofuran	1 638	
Fluorene *	763	
Dibenzothiophene	11,0	
Phenanthrene *	170 b	
Antrachene *	4,00	66
3-Methylphenanthrene	10,0 b	
2-Methylphenanthrene	16,0 b	
2-Methylanthracene	1,00 b	
9-Methylphenanthrene	8,00 b	
1-Methylphenanthrene	11,0 b	
Fluoranthene *	152	
Pyrene *	97,0	82
Benzo(a)fluorene	10,0 i	
Retene	9,00 b	
Benzo(b)fluorene	6,00 i	
Benzo(ghi)fluoranthene	17,0	
Cyclopenta(cd)pyrene	4,00	
Benz(a)anthracene *	19,0	83
Chrysene */Triphenylene	67,0	
Benzo(b */j/k *)fluoranthenes	94,0	
Benzo(a)fluoranthene	< 1,00	
Benzo(e)pyrene	29,0	113
Benzo(a)pyrene *	6,00	
Perylene	5,00	
Indeno(1,2,3-cd)pyrene *	16,0	
Dibenzo(ac/ah *)anthracene	1,00	
Benzo(ghi)perylene *	2,00 b	105
Anthanthrene	4,00	
Coronene	5,00	
Dibenzo(ae)pyrene	< 1,00	
Dibenzo(ai)pyrene	< 1,00	
Dibenzo(ah)pyrene	< 1,00	
Sum bicyclic PAH:	5 058	
Sum 3-7 ring PAH:	3 195	
Sum all:	8 253	
Sum 16 EPA PAH *	3 738	

<: Lower than detection limit at signal:noise 3:1

(i): Possible interference

(s): Saturated signal

(b): Lower than 10 times method blank

(g): Recovery is not according to NILUs quality criteria

2. Version 24.09.01 GSK

Results of PAH Analysis



391

Encl. to measuring report: O-2083
 NILU sample number: 04/120
 Customer: Amap 03
 Customers sample ID: 15-17.12.03 1017-0934
 : 160-159
 Sample type: Luft
 Sample amount: 1140 m3
 Concentration unit: pg/m3
 Data files: TA_7879.D

Kjeller, 24.03.04

Component:	Concentration pg/m3	Recovery %
Naphtalene *	1 561	
2-Methylnaphtalene	373	37
1-Methylnaphtalene	400	
Biphenyl	1 196	
Acenaphthylene *	2,00 b	
Acenaphtene *	8,00 b	44
Dibenzofuran	1 199	
Fluorene *	516	
Dibenzothiophene	23,0	
Phenanthrene *	88,0 b	
Antrachene *	1,00 b	70
3-Methylphenanthrene	10,0 b	
2-Methylphenanthrene	13,0 b	
2-Methylantracene	< 1,00	
9-Methylphenanthrene	7,00 b	
1-Methylphenanthrene	7,00 b	
Fluoranthene *	64,0 b	
Pyrene *	38,0 b	87
Benzo(a)fluorene	4,00 i	
Retene	5,00 b	
Benzo(b)fluorene	3,00 i	
Benzo(ghi)fluoranthene	6,00	
Cyclopenta(cd)pyrene	2,00	
Benz(a)anthracene *	7,00	80
Chrysene */Triphenylene	25,0	
Benzo(b */j/k *)fluoranthenes	35,0	
Benzo(a)fluoranthene	< 1,00	
Benzo(e)pyrene	12,0	107
Benzo(a)pyrene *	3,00	
Perylene	< 1,00	
Indeno(1,2,3-cd)pyrene *	8,00	
Dibenzo(ac/ah *)anthracene	1,00	
Benzo(ghi)perylene *	10,0 i	99
Anthanthrene	1,00	
Coronene	2,00	
Dibenzo(ae)pyrene	< 1,00	
Dibenzo(ai)pyrene	< 1,00	
Dibenzo(ah)pyrene	< 1,00	
Sum bicyclic PAH:	3 530	
Sum 3-7 ring PAH:	2 106	
Sum all:	5 636	
Sum 16 EPA PAH *	2 367	

<: Lower than detection limit at signal:noise 3:1

(i): Possible interference

(s): Saturated signal

(b): Lower than 10 times method blank

(g): Recovery is not according to NILUs quality criteria

2. Versjon 24.09.01 GSK

Results of PAH Analysis



392

Encl. to measuring report: O-2083
 NILU sample number: 04/123
 Customer: Amap 03
 Customers sample ID: 22-24.12.03 0858-0813
 : 160-158
 Sample type: Luft
 Sample amount: 1130 m3
 Concentration unit: pg/m3
 Data files: TA_7880.D

Kjeller, 24.03.04

Component:	Concentration pg/m3	Recovery %
Naphtalene *	2 009	
2-Methylnaphtalene	573	34
1-Methylnaphtalene	589	
Biphenyl	1 572	
Acenaphthylene *	5,00 b	
Acenaphtene *	12,0 b	40
Dibenzofuran	1 627	
Fluorene *	829	
Dibenzothiophene	35,0	
Phenanthrene *	124 b	
Antrachene *	5,00	59
3-Methylphenanthrene	8,00 b	
2-Methylphenanthrene	13,0 b	
2-Methylanthracene	1,00 b	
9-Methylphenanthrene	7,00 b	
1-Methylphenanthrene	9,00 b	
Fluoranthene *	122 b	
Pyrene *	84,0 b	76
Benzo(a)fluorene	11,0 i	
Retene	9,00 b	
Benzo(b)fluorene	7,00 i	
Benzo(ghi)fluoranthene	17,0	
Cyclopenta(cd)pyrene	5,00	
Benz(a)anthracene *	22,0	75
Chrysene */Triphenylene	58,0	
Benzo(b */j/k *)fluoranthenes	85,0	
Benzo(a)fluoranthene	5,00	
Benzo(e)pyrene	28,0	105
Benzo(a)pyrene *	15,0	
Perylene	4,00	
Indeno(1,2,3-cd)pyrene *	22,0	
Dibenzo(ac/ah *)anthracene	2,00	
Benzo(ghi)perylene *	22,0	102
Anthanthrene	3,00	
Coronene	9,00	
Dibenzo(ae)pyrene	< 1,00	
Dibenzo(ai)pyrene	< 1,00	
Dibenzo(ah)pyrene	< 1,00	
Sum bicyclic PAH:	4 743	
Sum 3-7 ring PAH:	3 208	
Sum all:	7 951	
Sum 16 EPA PAH *	3 416	

<: Lower than detection limit at signal:noise 3:1

(i): Possible interference

(s): Saturated signal

(b): Lower than 10 times method blank

(g): Recovery is not according to NILUs quality criteria

2. Versjon 24.09.01 GSK

Results of PAH Analysis



Encl. to measuring report: O-2083
 NILU sample number: 04/126
 Customer: Amap 03
 Customers sample ID: 29-31.12.03 0837-0743
 : 160-157
 Sample type: Luft
 Sample amount: 1126 m3
 Concentration unit: pg/m3
 Data files: TA_7881.D

Kjeller, 24.03.04

Component:	Concentration pg/m3	Recovery %
Naphtalene *	1 781	
2-Methylnaphtalene	425	35
1-Methylnaphtalene	468	
Biphenyl	1 457	
Acenaphthylene *	7,00 b	
Acenaphtene *	8,00 b	42
Dibenzofuran	1 606	
Fluorene *	805	
Dibenzothiophene	35,0	
Phenanthrene *	123 b	
Antrachene *	5,00	65
3-Methylphenanthrene	10,0 b	
2-Methylphenanthrene	15,0 b	
2-Methylanthracene	1,00 b	
9-Methylphenanthrene	8,00 b	
1-Methylphenanthrene	11,0 b	
Fluoranthene *	133	
Pyrene *	94,0	81
Benzo(a)fluorene	12,0 i	
Retene	12,0 b	
Benzo(b)fluorene	6,00 i	
Benzo(ghi)fluoranthene	18,0	
Cyclopenta(cd)pyrene	8,00	
Benz(a)anthracene *	23,0	85
Chrysene */Triphenylene	53,0	
Benzo(b */j/k *)fluoranthenes	88,0	
Benzo(a)fluoranthene	6,00	
Benzo(e)pyrene	27,0	108
Benzo(a)pyrene *	15,0	
Perylene	4,00	
Indeno(1,2,3-cd)pyrene *	27,0	
Dibenzo(ac/ah *)anthracene	2,00	
Benzo(ghi)perylene *	28,0	106
Anthanthrene	3,00	
Coronene	10,0	
Dibenzo(ae)pyrene	< 1,00	
Dibenzo(ai)pyrene	< 1,00	
Dibenzo(ah)pyrene	< 1,00	
Sum bicyclic PAH:	4 131	
Sum 3-7 ring PAH:	3 206	
Sum all:	7 337	
Sum 16 EPA PAH *	3 192	

<: Lower than detection limit at signal:noise 3:1
 (i): Possible interference
 (s): Saturated signal
 (b): Lower than 10 times method blank
 (g): Recovery is not according to NILUs quality criteria

2. Versjon 24.09.01 GSK

Vedlegg 12

**Kvikksølv i luft i Ny-Ålesund
(U-870-04, U-871-04 og U-877-04)**

Målerapport nr. U-870-04

Oppdragsgiver: NILU v/Torunn Berg
Her

Prosjekt nr: O-99137

Prøvetaking:
Sted: Zeppelin
Ansvar: NILU
Kommentar:

Prøveinformasjon:
Prøve type: Elementært kvikksølv i gassfase (GEM)

Prøver mottatt:
Antall prøver:
Kommentar:

Analyser:
Utført av: Norsk institutt for luftforskning
Postboks 100
N-2007 KJELLER

Målemetode: Analysene er utført ved NILUs avdeling for Uorganisk analyse. Følgende metoder er brukt:

GEM: Tekran Hg-monitor

Måleusikkerhet:

Kontakt person: Torunn Berg



Godkjenning: Kjeller, 19. mai 2004

A handwritten signature in blue ink that reads "Torunn Berg".

Torunn Berg
Seniorforsker

Vedlegg: 6 sider
Målerapporten og vedleggene omfatter i alt 8 sider

Måleresultatene gjelder bare de prøvene som er analysert. Denne rapporten skal ikke gjengis i utdrag, uten skriftlig godkjenning fra laboratoriet.

Elementært kvikksølv i gassfase (GEM), Zeppelin, 2003

Dato	GEM (ng/m³)
17.01.2003	2
21.01.2003	1
22.01.2003	2
23.01.2003	2
24.01.2003	2
25.01.2003	2
26.01.2003	2
27.01.2003	2
28.01.2003	2
03.02.2003	2
04.02.2003	2
05.02.2003	2
06.02.2003	2
07.02.2003	2
08.02.2003	2
09.02.2003	2
10.02.2003	2
11.02.2003	2
13.02.2003	2
14.02.2003	2
15.02.2003	2
16.02.2003	2
17.02.2003	2
18.02.2003	2
19.02.2003	2
20.02.2003	2
21.02.2003	1
22.02.2003	2
23.02.2003	2
24.02.2003	2
25.02.2003	2
26.02.2003	2
27.02.2003	2
28.02.2003	1
01.03.2003	2
02.03.2003	2
03.03.2003	2
07.03.2003	2
08.03.2003	2
09.03.2003	2
10.03.2003	2
11.03.2003	1
12.03.2003	2
13.03.2003	2
14.03.2003	2
15.03.2003	2
16.03.2003	2
17.03.2003	2
18.03.2003	2
19.03.2003	2
20.03.2003	2
21.03.2003	2

Elementært kvikksølv i gassfase (GEM), Zeppelin, 2003

22.03.2003	2
23.03.2003	2
24.03.2003	2
25.03.2003	2
26.03.2003	2
27.03.2003	2
28.03.2003	2
29.03.2003	2
30.03.2003	1
31.03.2003	1
01.04.2003	1
02.04.2003	1
03.04.2003	1
04.04.2003	1
05.04.2003	1
06.04.2003	2
07.04.2003	2
08.04.2003	2
09.04.2003	1
10.04.2003	2
11.04.2003	2
12.04.2003	2
13.04.2003	2
14.04.2003	2
16.04.2003	2
17.04.2003	2
18.04.2003	2
19.04.2003	2
20.04.2003	1
21.04.2003	0
22.04.2003	1
23.04.2003	1
24.04.2003	2
25.04.2003	2
26.04.2003	2
27.04.2003	2
28.04.2003	1
29.04.2003	1
30.04.2003	2
01.05.2003	1
02.05.2003	1
03.05.2003	2
04.05.2003	2
05.05.2003	2
06.05.2003	2
07.05.2003	2
08.05.2003	2
09.05.2003	2
10.05.2003	2
11.05.2003	2
12.05.2003	2
13.05.2003	2
14.05.2003	2
15.05.2003	1
16.05.2003	1

Elementært kvikksølv i gassfase (GEM), Zeppelin, 2003

17.05.2003	2
18.05.2003	2
19.05.2003	2
20.05.2003	2
21.05.2003	2
22.05.2003	2
23.05.2003	2
24.05.2003	2
25.05.2003	1
26.05.2003	2
27.05.2003	2
28.05.2003	2
29.05.2003	2
30.05.2003	2
31.05.2003	2
01.06.2003	2
02.06.2003	2
03.06.2003	2
04.06.2003	2
05.06.2003	2
06.06.2003	2
07.06.2003	2
08.06.2003	2
09.06.2003	2
10.06.2003	1
11.06.2003	1
12.06.2003	1
13.06.2003	1
14.06.2003	2
15.06.2003	2
16.06.2003	2
17.06.2003	2
18.06.2003	2
19.06.2003	2
20.06.2003	2
21.06.2003	2
22.06.2003	2
23.06.2003	2
24.06.2003	2
25.06.2003	2
26.06.2003	2
27.06.2003	2
28.06.2003	2
29.06.2003	2
30.06.2003	2
01.07.2003	2
02.07.2003	2
03.07.2003	2
04.07.2003	2
05.07.2003	1
06.07.2003	1
07.07.2003	1
08.07.2003	2
09.07.2003	2
10.07.2003	2

Elementært kvikksølv i gassfase (GEM), Zeppelin, 2003

11.07.2003	2
12.07.2003	2
13.07.2003	2
14.07.2003	2
15.07.2003	2
16.07.2003	2
17.07.2003	2
18.07.2003	2
19.07.2003	2
20.07.2003	2
21.07.2003	2
22.07.2003	2
23.07.2003	2
24.07.2003	2
30.07.2003	2
31.07.2003	2
01.08.2003	2
02.08.2003	2
03.08.2003	2
04.08.2003	2
05.08.2003	2
06.08.2003	2
07.08.2003	2
08.08.2003	2
09.08.2003	2
10.08.2003	2
11.08.2003	2
12.08.2003	2
13.08.2003	2
14.08.2003	2
15.08.2003	2
16.08.2003	2
17.08.2003	2
18.08.2003	2
19.08.2003	2
20.08.2003	2
21.08.2003	2
22.08.2003	2
23.08.2003	2
24.08.2003	2
25.08.2003	1
26.08.2003	2
28.08.2003	2
29.08.2003	2
30.08.2003	2
31.08.2003	2
01.09.2003	2
02.09.2003	2
03.09.2003	2
04.09.2003	2
05.09.2003	2
06.09.2003	2
07.09.2003	2
08.09.2003	2
09.09.2003	2

Elementært kvikksølv i gassfase (GEM), Zeppelin, 2003

10.09.2003	2
11.09.2003	2
12.09.2003	2
13.09.2003	2
14.09.2003	2
15.09.2003	2
16.09.2003	2
17.09.2003	2
18.09.2003	2
19.09.2003	1
20.09.2003	1
21.09.2003	2
22.09.2003	1
23.09.2003	1
24.09.2003	1
25.09.2003	2
26.09.2003	1
27.09.2003	1
01.10.2003	1
02.10.2003	1
06.10.2003	2
07.10.2003	2
08.10.2003	1
09.10.2003	1
10.10.2003	2
11.10.2003	1
12.10.2003	1
13.10.2003	1
14.10.2003	2
29.10.2003	2
30.10.2003	2
31.10.2003	2
01.11.2003	1
02.11.2003	2
03.11.2003	2
04.11.2003	2
05.11.2003	2
06.11.2003	2
07.11.2003	2
08.11.2003	2
09.11.2003	2
10.11.2003	2
11.11.2003	2
12.11.2003	2
13.11.2003	2
14.11.2003	2
15.11.2003	2
17.11.2003	1
18.11.2003	2
19.11.2003	2
20.11.2003	2
21.11.2003	2
22.11.2003	1
23.11.2003	2
24.11.2003	1

Elementært kvikksølv i gassfase (GEM), Zeppelin, 2003

25.11.2003	1
26.11.2003	1
27.11.2003	2
28.11.2003	2
29.11.2003	2
02.12.2003	2
03.12.2003	2
04.12.2003	2
05.12.2003	2
06.12.2003	2
07.12.2003	2
08.12.2003	2
09.12.2003	2
10.12.2003	2
11.12.2003	2
12.12.2003	2
13.12.2003	2
14.12.2003	2
15.12.2003	2
16.12.2003	2
17.12.2003	2
18.12.2003	2
19.12.2003	1
20.12.2003	2
21.12.2003	1
22.12.2003	2
23.12.2003	2
24.12.2003	2
25.12.2003	2
26.12.2003	1
27.12.2003	1
28.12.2003	1
29.12.2003	1
30.12.2003	2

Målerapport nr. U-871-04

Oppdragsgiver: NILU v/Torunn Berg
Her

Prosjekt nr: O-100103

Prøvetaking:
Sted: Zeppelin, Ny-Ålesund
Ansvar: NILU
Kommentar:

Prøveinformasjon:
Prøve type: Reaktivt gassfasekvikksølv (RGM)

Prøver mottatt:
Antall prøver:
Kommentar:

Analyser:
Utført av: Norsk institutt for luftforskning
Postboks 100
N-2007 KJELLER

Målemetode: Analysene er utført ved NILUs avdeling for Uorganisk analyse. Følgende metoder er brukt:

RGM: Annulære denudere/Tekran Hg-monitor

Måleusikkerhet:

Kontakt person: Torunn Berg



Godkjenning: Kjeller, 19. mai 2004

Torunn Berg

Torunn Berg
Seniorforsker

Vedlegg: 2 sider
Målerapporten og vedleggene omfatter i alt 4 sider

Måleresultatene gjelder bare de prøvene som er analysert. Denne rapporten skal ikke gjengis i utdrag, uten skriftlig godkjenning fra laboratoriet.

Reaktivt gassfasekvikksølv (RGM), Ny-Ålesund, 2003

Fradato	Fra tid	RGM (pg/m3)
12.04.2003	14:45	6
13.04.2003	09:30	3
14.04.2003	08:50	1
15.04.2003	07:05	0
15.04.2003	14:15	1
16.04.2003	07:00	1
17.04.2003	14:55	6
18.04.2003	10:40	1
18.04.2003	17:55	2
18.04.2003	21:00	4
18.04.2003	23:00	6
19.04.2003	02:00	10
19.04.2003	05:00	3
19.04.2003	09:30	3
19.04.2003	14:00	3
20.04.2003	11:30	3
20.04.2003	14:00	10
20.04.2003	18:55	11
20.04.2003	20:00	9
20.04.2003	22:00	10
20.04.2003	23:00	15
21.04.2003	02:00	6
21.04.2003	05:00	6
21.04.2003	08:00	11
21.04.2003	12:25	12
21.04.2003	15:35	13
21.04.2003	17:00	202
21.04.2003	20:00	182
22.04.2003	06:10	133
22.04.2003	09:30	67
22.04.2003	12:00	14
22.04.2003	14:00	19
22.04.2003	17:00	59
23.04.2003	08:30	32
23.04.2003	17:35	121
23.04.2003	14:00	61
23.04.2003	16:45	30
24.04.2003	06:55	9
24.04.2003	08:55	30
24.04.2003	11:40	10
24.04.2003	14:00	75
25.04.2003	06:50	11
25.04.2003	09:35	100
25.04.2003	14:00	13
26.04.2003	10:05	12
26.04.2003	15:20	16
27.04.2003	13:40	14
28.04.2003	06:10	34
28.04.2003	08:15	151
28.04.2003	11:10	204
28.04.2003	14:00	218

Reaktivt gassfasekvikksølv (RGM), Ny-Ålesund, 2003

28.04.2003	17:00	223
29.04.2003	06:35	99
29.04.2003	08:00	159
29.04.2003	12:00	109
29.04.2003	14:10	98
29.04.2003	16:35	97
30.04.2003	07:10	78
30.04.2003	11:00	24
30.04.2003	13:55	72
01.05.2003	09:20	32
01.05.2003	11:20	87
01.05.2003	14:00	116
01.05.2003	15:55	139
02.05.2003	06:35	58
02.05.2003	08:20	80
02.05.2003	11:00	83
02.05.2003	14:00	145
03.05.2003	06:35	61
03.05.2003	11:35	33
04.05.2003	09:15	16
05.05.2003	06:45	10
05.05.2003	09:35	16
05.05.2003	11:55	21
05.05.2003	14:50	17
06.05.2003	11:25	20
06.05.2003	14:00	19
07.05.2003	06:55	5
07.05.2003	12:50	5
08.05.2003	06:50	1
08.05.2003	14:05	33
09.05.2003	07:05	20
09.05.2003	13:00	39

Målerapport nr. U-877-04

Oppdragsgiver: NILU v/Torunn Berg
Her

Prosjekt nr: O-99137/O-100103

Prøvetaking:
Sted: Zeppelin
Ansvar: NILU
Kommentar:

Prøveinformasjon:
Prøve type: Partikulært kvikksølv (PM)

Prøver mottatt:
Antall prøver:
Kommentar:


Analyser:
Utført av: Norsk institutt for luftforskning
Postboks 100
N-2007 KJELLER

Målemetode: Analysene er utført ved NILUs avdeling for Uorganisk analyse.
Følgende metoder er brukt:

PM: Høyvolumprøvetaker/CV-AFS
Minifeller/CV-AFS

Måleusikkerhet:

Kontakt person: Torunn Berg

Godkjenning: Kjeller, 27. mai 2004

Torunn Berg
Seniorforsker

Vedlegg: 2 sider
Målerapporten og vedleggene omfatter i alt 3 sider

Måleresultatene gjelder bare de prøvene som er analysert. Denne rapporten skal ikke gjengis i utdrag, uten skriftlig godkjenning fra laboratoriet.

Partikulært kvikksølv (PM), Zeppelin, 2003
Metode: Høyvolumprøvetaker

Fradato	Tildato	PM (pg/m3)
30.12.2002	06.01.2004	0.4
07.01.2003	14.01.2003	1.5
14.01.2003	21.03.2003	2.8
21.01.2003	28.01.2003	2.1
28.01.2003	04.02.2003	1.5
04.02.2003	11.02.2003	0.5
11.02.2003	18.02.2003	0.2
18.02.2003	25.02.2003	1.0
25.02.2003	04.03.2003	1.2
04.03.2003	11.03.2003	4.5
11.03.2003	18.03.2003	11.7
18.03.2003	25.03.2003	8.6
25.03.2004	01.04.2004	5.3
01.04.2004	08.04.2003	14.0
08.04.2003	15.04.2003	1.6
15.04.2003	20.04.2003	2.9
22.04.2003	29.04.2003	3.1
29.04.2003	06.05.2003	3.5
06.05.2003	13.05.2003	1.2
13.05.2003	20.05.2003	1.3
20.05.2003	27.05.2003	2.5
01.07.2003	03.07.2003	6.0
03.07.2003	15.07.2003	2.0
15.07.2003	22.07.2003	1.8
22.07.2003	29.07.2003	2.6
29.07.2003	05.08.2003	3.5
05.08.2003	12.08.2003	2.3
12.08.2003	14.08.2003	3.8
19.08.2003	26.08.2003	0.9
26.08.2003	02.09.2003	0.7
02.09.2003	09.09.2003	0.3
09.09.2003	16.09.2003	0.3
16.09.2003	23.09.2003	0.1
23.09.2003	30.09.2003	0.3
30.09.2003	02.10.2003	0.3
07.10.2003	14.10.2003	0.3
14.10.2003	21.10.2003	0.4
21.10.2003	29.10.2003	0.6
04.11.2003	11.11.2003	0.4
11.11.2003	18.11.2003	0.4
18.11.2003	25.11.2003	0.5
25.11.2003	02.12.2003	0.6
02.12.2003	09.12.2003	0.4
09.12.2003	16.12.2003	0.5
16.12.2003	23.12.2003	2.1
23.12.2003	30.12.2003	1.8
30.12.2003	07.01.2004	0.6

Partikulært kvikksølv (PM), Ny-Ålesund, 2003

Metode: Minifeller

Fradato	Fra tid	Tildato	Til tid	PM (pg/m3)
12.04.2003	13:23	12.04.2003	14:45	21.9
12.04.2003	15:09	13.04.2003	09:30	3.1
13.04.2003	13:50	14.04.2003	08:50	0.7
14.04.2003	09:10	14.04.2003	12:55	14.7
15.04.2003	13:05	15.04.2003	07:05	2.7
15.04.2003	09:00	15.04.2003	15:15	2.3
17.04.2003	10:20	17.04.2003	14:55	1.9
18.04.2003	15:05	18.04.2003	10:40	1.1
18.04.2003	11:00	18.04.2003	17:55	3.2
18.04.2003	18:10	18.04.2003	21:00	6.1
18.04.2003	21:05	18.04.2003	00:00	350.0
18.04.2003	18:20	19.04.2003	11:40	22.4
19.04.2003	12:00	20.04.2003	11:30	38.3
20.04.2003	12:00	20.04.2003	18:55	87.6
20.04.2003	19:00	21.04.2003	08:00	106.1
21.04.2003	09:00	21.04.2003	17:00	107.5
21.04.2003	18:00	22.04.2003	06:10	198.0
22.04.2003	09:00	22.04.2003	17:00	124.7
22.04.2003	17:30	23.04.2003	08:30	37.9
23.04.2003	09:00	25.04.2003	06:54	12.5
25.04.2003	07:20	26.04.2003	15:18	21.8
26.04.2003	15:45	28.04.2003	06:25	9.5
28.04.2003	06:26	28.04.2003	08:15	92.8
28.04.2003	08:31	28.04.2003	11:10	44.5
28.04.2003	12:00	28.04.2003	14:00	75.1
28.04.2003	15:00	28.04.2003	17:00	28.7
28.04.2003	18:00	29.04.2003	06:35	14.0
29.04.2003	06:49	29.04.2003	08:00	35.6
29.04.2003	09:00	29.04.2003	11:55	31.1
29.04.2003	12:08	29.04.2003	14:09	14.2
29.04.2003	14:19	29.04.2003	16:35	48.5
29.04.2003	17:26	30.04.2003	07:10	3.4
30.04.2003	11:56	30.04.2003	13:56	15.6
30.04.2003	14:00	01.05.2003	09:19	4.31
01.05.2003	09:24	01.05.2003	11:19	6.3
01.05.2003	12:00	01.05.2003	14:02	14.9
01.05.2003	14:10	01.05.2003	15:56	43.1
01.05.2003	16:06	02.05.2003	06:37	34.2
02.05.2003	06:50	02.05.2003	08:17	26.7
02.05.2003	09:00	02.05.2003	11:02	25.9
02.05.2003	12:05	02.05.2003	13:55	48.2
02.05.2003	14:05	03.05.2003	06:25	14.8
03.05.2003	06:46	03.05.2003	11:35	28.3
03.05.2003	12:30	04.05.2003	09:15	6.9
04.05.2003	09:50	05.05.2003	06:44	3.6
05.05.2003	07:00	05.05.2003	09:35	13.4
05.05.2003	09:40	05.05.2003	11:55	5.1
05.05.2003	12:02	05.05.2003	14:50	10.0
05.05.2003	14:57	06.05.2003	07:00	4.8
06.05.2003	07:05	06.05.2003	11:25	4.3
06.05.2003	12:00	06.05.2003	14:00	25.8
06.05.2003	14:00	07.05.2003	06:55	8.0
07.05.2003	07:05	07.05.2003	12:50	1.9



Norsk institutt for luftforskning (NILU)
Postboks 100, N-2027 Kjeller

RAPPORTTYPE OPPDRAKSRAFFORT	RAPPORT NR. OR 44/2004	ISBN 82-425-1588-3 ISSN 0807-7207	
DATO 28.05.04	ANSV. SIGN. Steinar Jordfeldt	ANT. SIDER 411	PRIS NOK 150,-
TITTEL Måledata fra langtransportert forurenset luft og nedbør Datarapport fra programmene CAMP '03 og AMAP '03 (sporstoffer og organiske komponenter)		PROSJEKTLEDER Stein Manø	
		NILU PROSJEKT NR. O-90006/O-93062	
FORFATTER(E) Stein Manø og Torunn Berg		TILGJENGELIGHET * A	
		OPPDRAKSGIVERS REF.	
OPPDRAKSGIVER Statens forurensningstilsyn Postboks 8100 Dep. 0032 OSLO			
STIKKORD Sporelementer	POP	Luft	
REFERAT Overvåkningsdata (POP og sporstoffer) fra prosjektene AMAP og CAMP i år 2003.			
TITLE Data from long range transported polluted air and deposition			
ABSTRACT			

* Kategorier: A Åpen - kan bestilles fra NILU
 B Begrenset distribusjon
 C Kan ikke utleveres