142989

Riverdale Analytical Data Distribution List

Samples: SL12, SL13, SL14, SL15, SL16, SL17, SL18

SL19

SL20

Pesticide

COC

Original	RMT Chicago Office File - 4962.01 Technical
Copy 1	Dr. Peter Bibby – Riverdale Chemical Company 220 East 17th Street Chicago Heights, IL 60411
Copy 2	**Matt Ohl - USEPA RPM** USEPA, Region V 77 West Jackson Blvd. Chicago, IL 60604
Copy 3	Karen Peaceman - USEPA Regional Counsel USEPA, Region V 77 West Jackson Blvd. Chicago, IL 60604
Copy 4	Todd Wiener – McDermott, Will & Emery 227 West Monroe Street Chicago, IL 60606
Copy 5	Dr. Kirsti Sorsa – RMT Madison/Data Review

SDG NARRATIVE

SEVERN TRENT SERVICES

STL North Canton

This narrative pertains to samples received from the RMT Riverdale Site, project number 4962.01. This data package, completed by STL Pittsburgh, consists of data from the Pesticide/PCB analyses of thirteen (13) solid samples using the CLP OLM03.1 protocol.

Sample(s) which contain results between the MDL and the RL have been flagged with J. There is the possibility of false positive or misidentification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation will be performed only down to the standard reporting limit (SRL). The acceptance criteria for QC criteria may not be met at these quantitation levels.

The following is a listing of the samples in SDG G06146:

Client ID	Laboratory ID	Sample Receipt Date
SL12-1.0'	DFQLJ	07/06/00
SL12-3.5'	DFQPJ	07/06/00
SL13-1.5'	DFQPM	07/06/00
SL13-3.5'	DFQPW	07/06/00
SL14-3.0'	DFQQ0	07/06/00
SL15-3.0'	DFQQ3	07/06/00
SL16-1.0'	DFQQ4	07/06/00
SL17-1.0'	DFQQ5	07/06/00
SL17-3.0'	DFQQ9	07/06/00
SL18-2.5'	DFQQC	07/06/00
SL19-1.0'	DFQQN	07/06/00
SL20-2.0'	DFQQP	07/06/00
SL20-2.0'D	DFQQT	07/06/00

During the preparation and analyses of these samples, the following items were noted:

1. No anomalies were encountered.

Kenneth J. Kuzior
Project Manager
July 27, 2000

STL North Canton is a part of Severn Trent Laboratories, Inc.

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MISCELLANEOUS DATA

RSR280

Client: 64186

Lot #: A0G060146

Case Number/SDG: 4962.01

Storage Location: W149

Severn Trent Laboratories, Inc.
Sample Control Record

Laboratory Sample I.D.	Transferred By	Date	Entered	Removed	Reason	Date Returned
DFQLJ	JOHNSONP	7/06/00	Yes		Storage	
DFQPJ	JOHNSONP	7/06/00	Yes		Storage	
DFQPM	JOHNSONP	7/06/00	Yes		Storage	
DFQPW	JOHNSONP	7/06/00	Yes		Storage	
DFQQ0	JOHNSONP	7/06/00	Yes		Storage	
DFQQ3	JOHNSONP	7/06/00	Yes		Storage	
DFQQ4	JOHNSONP	7/06/00	Yes		Storage	
DFQQ5	JOHNSONP	7/06/00	Yes		Storage	
DFQQ9	JOHNSONP	7/06/00	Yes		Storage	
DFQQC	JOHNSONP	7/06/00	Yes		Storage	
DFQQN	JOHNSONP	7/06/00	Yes		Storage	
DFQQP	JOHNSONP	7/06/00	Yes		Storage	
DFQQT	JOHNSONP	7/06/00	Yes		Storage	

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SHIPPING AND RECEIVING DOCUMENTS

FedEx USA Airbill 821764937506 0200 FedEx Retrieval Copy

1 From
Date July 5, 2000 Sender's FedEx Account Number 1541-8031-1
Sender's Name Dave Yaros Phone
Company RMT/Chicago
Address 222 South Riverside Plaza Suite 820
City Chicago State Il ZIP 61606

2 Your Internal Billing Reference

3 To
Recipient's Name Mr. Kenneth J. Kumer Phone
Company Quantera
Address 4101 Shuffle Drive, NW
We cannot deliver to P.O. boxes or P.O. ZIP codes
To HOLD at FedEx location, enter FedEx address here
City North Canton State Oh ZIP 44720-6961

82176493 7506

4a Express Package Service — Packages up to 150 lbs
1 FedEx Priority Overnight
5 FedEx Standard Overnight
6 FedEx First Overnight
3 FedEx 2Day
20 FedEx Express Saver

4b Express Freight Service — Packages over 150 lbs
7 FedEx 1Day Freight
8 FedEx 2Day Freight
83 FedEx 3Day Freight

5 Packaging
6 FedEx Letter
2 FedEx Pak
1 Other Pkg

6 Special Handling
3 Saturday Delivery
33 Sunday Delivery
1 HOLD Weekday at FedEx Location
31 HOLD Saturday at FedEx Location
Does this shipment contain dangerous goods?
One box must be checked
No
4 Yes
Yes
6 Dry Ice
Cargo Aircraft Only

7 Payment Bill to:
Enter FedEx Acct. No. or Credit Card No. below
Obtain Recip. Acct. No.
1 Sender
2 Recipient
3 Third Party
4 Credit Card
5 Cash/Check
Total Packages
Total Weight 20 lbs
Total Charges

8 Release Signature
Andrea Guyn-Hanoy

360

00/10/00

CORPAK® BOTTLES

No. 201665

SEVERN TRENT LABORATORIES

Committed To Your Success

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: RMT	PROJECT NAME/NUMBER: RIVERDALE / 4962.01
SEND REPORT TO: DAVID YARS	BILLING INFORMATION
ADDRESS: 222 S. RIVERSIDE	BILL TO: Same as Customer
SUITE 820	ADDRESS:
Chicago, IL 60606	
PHONE: 312-575-0200	PHONE:
FAX: 312-575-0300	FAX: PO NO.: 4962.01

LAB JOB NO.

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS/METHOD REQUEST: Heptachlor, Aldrin, heptachlor epoxide, Dieldrin, chlordane, toxaphene	REMARKS/PRECAUTIONS
SL19-1.0	7/3	~~10:40~~	10:40	Soil	4oz	None			
SL20-2.0	7/3	~~10:50~~	10:50	↓	↓	↓			
SL20.2.0 DUP	7/3	↓	10:50	↓	↓	↓			

SAMPLER: DAVID YARS

SHIPMENT METHOD:

AIRBILL NO.:

REQUIRED TURNAROUND* ☐ SAME DAY ☑ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE ☐ OTHER

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: [signature]	7/3	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY:	TIME 3:00	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE: Terry Burns	7/6/00	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: Terry Burns/STL	TIME 9AM	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

SEVERN TRENT LABORATORIES
1721 South Grand Avenue
Santa Ana, CA 92705
Phone: (714) 258-8610 / Fax: (714) 258-0921

STL North Canton

SEVERN TRENT LABORATORIES, INC. STANDARD TERMS AND CONDITIONS

ACCEPTANCE. Severn Trent Laboratories, Inc. (hereafter referred to as "STL") offers and will accept orders for services (as defined herein) only under the following Standard Terms and Conditions (the "Terms"). These Terms shall not apply if STL and the Customer shall have executed a separate agreement in writing. If specific Terms are not incorporated in the separate agreement those Terms will apply to the Customer. No modifications to the Terms shall be valid and binding unless in writing and signed by an authorized representative of STL. Customer's order for services shall be subject to the Terms and the Terms shall be binding upon receipt of samples to STL. Either party may terminate this agreement at any time by giving written notice of such termination to the other party. Upon termination the customer is subject to payment for all services rendered and expenses incurred up to date in accordance with the applicable Price Schedule.

INSURANCE. STL maintains insurance coverage with minimum limits as follows: (a) Comprehensive General Liability- $1,000,000 each occurrence $2,000,000 annual aggregate; (b) Comprehensive Automotive Liability Bodily Injury and Property Damage- $1,000,000 each occurrence. (c) Workman's Compensation- $500,000 each occurrence and $500,000 each employee; STL and Customer agree to furnish the other, upon request, certificates attesting to the existence of insurance coverage.

INDEPENDENT CONTRACTOR. STL's relationship with Customer under this agreement shall be that of an independent contractor. Nothing in this Agreement shall be construed to designate STL, or any of its employees or subcontractors, as employees, joint venturers or partners of Customer.

SUBCONTRACTING. STL shall have the right to subcontract any and all services, duties, and obligations hereunder, in whole or in part with the consent of the Customer in a timely response which shall not be unreasonably refused. Subcontractor shall be bound by the same Terms of performance as STL.

BILLING. All fees are charged or billed directly to the Customer. The billing of a third party will not be accepted without a statement, signed by the third party, which acknowledges and accepts payment responsibility.

PAYMENT. Payment in advance is required for all Customers except those whose credit has been established with STL. Customers with STL approved credit, terms are Net 30 days, after which time a 1-1/2% per month late charge is added to all unpaid balances. Failure of the Customer to pay according to Terms gives STL the right to withhold delivery of future data until all past due invoices have been settled. Customer shall pay all costs and expenses incident to the collection of past due amounts, including reasonable attorney's fees. No retainage of fees by the customer is allowed without the consent of STL.

MODIFICATIONS. If the sample received is of unknown character than in the original quote, or if due to the composition of the sample the original procedure specified is not practicable or likely to produce reliable results, Customer will be promptly notified. Modified procedures will be suggested and STL may quote new prices for such modifications. Upon agreement of such modification, the original quote shall be deemed amended and the samples in question shall be deemed to have been received.

TIME OF PERFORMANCE. STL will use its best efforts to comply with storage, processing and analytical time limits requested by the Customer. Unless specifically agreed to in writing between STL and Customer, the time performance of any testing or other services performed by STL under this agreement is not guaranteed and STL shall have no liability for failure to perform such services within the time requested. Quick turnaround times are available at a premium cost which will be defined in the quote, providing STL workload availability.

LIMITATION OF DAMAGES. STL is not an insurer of services rendered and the payments mentioned are based solely on the value of the services provided pursuant to this agreement. STL's liability to the Customer and the Customer's exclusive remedy for any cause of action alleged against STL, whether based in contract, tort, or otherwise, shall be limited solely to the amount paid by the Customer for the services performed. In no event shall STL be liable for incidental or consequential damages including, without limitation, business interruption, loss of use, or loss of profits incurred by the Customer, its subsidiaries, affiliates, successors or assigns, arising out of or related to this agreement or the performance of services hereunder.

WARRANTY. STL makes no warranty or representation, express or implied, or guarantee of results from the performance of services pursuant to this Agreement. Any information, recommendation, interpretation, or opinion by STL is based upon inferences and assumptions which are subject to error, and with respect to which analysis may differ. Accordingly, STL does not assume any liability with respect to the use of, or for damages resulting from the use of, any information, data, test results, analysis, apparatus, method, or process disclosed by STL. STL makes no presentation or warranty of any kind, including but not limited to, the warranties of fitness for a particular purpose or merchantability, nor are any such warranties to be implied with respect to the data or service furnished. STL assumes no responsibility with respect to Customer's use thereof.

LIMITATION ACTION. No action, regardless of form, arising out of or brought in connection with any services provided under this Agreement may be brought by the Customer more than one year after the performance of said services by STL. It is expressly agreed that STL shall have no liability to Customer unless that liability arises out of the willful misconduct or gross negligence of STL or its duly authorized employees.

CONFIDENTIALITY. Data and the sample materials provided by Customer or at Customer's request and the result obtained by STL shall be held in confidence (unless such information is generally available to the public or is in the public domain or Customer has failed to pay STL for all services rendered or is otherwise in breach of this Agreement) subject to any disclosure required by law or legal process. STL's reports and the data and information provided therein are for the exclusive use and benefit of Customer and Customer agrees there shall be no third party beneficiary of such reports, data, or information. Customer will not disclose to any third party any information concerning STL's technical information, software programs, or other formulations.

SEVERABILITY. The provisions of this Agreement shall be severable, and if any clause, sentence, paragraph, provision or other part hereof shall be adjudged by any court of competent jurisdiction to be invalid, such judgment shall not affect, impair or invalidate the remainder hereof, which remainder shall continue in full force and effect.

WAIVER. No waiver by either party of any breach, default or violation of any term, warranty, representation, agreement, covenant, condition or provision hereof shall constitute a waiver of any subsequent breach, default or violation of the same or any other term, warranty, representation, agreement, covenant, condition or provision hereof. All waivers must be in writing.

FORCE MAJEURE. Obligation of either party under this Agreement shall be suspended, and such party shall not be liable for damages or other remedies while such party is prevented from complying therewith, in whole or in part, due to contingencies beyond its reasonable control, including, but not limited to, strikes, riots, war, fire, act of God, injunction, compliance with any law, regulation or order, whether valid or invalid, of the United States of America or any other governmental body or any instrumentality, matrix interference or unknown highly contaminated samples that impact instrument operations thereof, whether now existing or hereafter created, inability to secure materials or obtain necessary permits, provided, however, the party so prevented from complying with its obligations hereunder shall promptly notify the other party thereof.

LITIGATION. All costs associated with compliance to any subpoena for documents, for testimony in court of law, or for any other purpose relating to work performed by STL, in connection with work performed for the Customer, shall be paid by the Customer. Such costs shall include, but are not limited to, hourly charges for persons involved in responding to subpoenas, travel and accommodations, mileage, attorney's preparation of testifier and advice of counsel in connection with response to subpoenas, and all other expenses deemed reasonable and associated with said litigation.

HAZARDOUS WASTE. Unused portions of samples found or suspected to be hazardous according to state or federal guidelines may be returned to the Customer upon completion of the analytical work. The cost of returning the sample may be invoiced to the Customer. The sample portions thereof remain the property of the Customer at all times. All radioactive or dioxin containing samples will be returned to the sampling site or to the Customer at the Customer's expense.

RETENTION OF SAMPLES. All routine samples are retained in our storage facilities for 30 days after report generation unless prior arrangements have been made. Samples may be held longer per Customers request for an additional fee.

RETENTION OF REPORTS. STL shall retain copies of analytical reports for a period of 5 years after report date, after which such reports may be destroyed or returned to the Customer at Customers expense. If Customer requests additional copies of such analytical reports during the retention period, an additional charge will apply for the preparation and printing of such reports.

COMPLIANCE WITH LAW. In the performance of all services to be provided hereunder, STL and Customer agree to comply with all applicable Federal, State and local laws and ordinances and all lawful orders, rules and regulations of any constituted authority.

APPLICABLE LAW. The validity, performance and construction of this Agreement shall be governed by and construed in accordance with the laws of the State of Delaware.

DRAFT — REVISION 1/27/99

8

SEVERN TRENT LABORATORIES

Committed To Your Success

No. 201664

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: RMT	PROJECT NAME/NUMBER: RIVERDALE / 4962.01
SEND REPORT TO: DAVID YARDS, RMT	BILLING INFORMATION
ADDRESS: 222 S. RIVERSIDE PLAZA	BILL TO: RMT (SAME AS CUSTOMER)
Suite 320	ADDRESS:
Chicago, IL 60606	
PHONE: 312-575-0200	PHONE:
FAX: 312-575-0300	FAX: PO NO.: 4962.01

LAB JOB NO.

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	Heptachlor, Adrin, heptachlor epoxide, Dieldrin, chlordane, toxaphene	REMARKS/PRECAUTIONS
SL12-1.0		7/3	7:30	Soil	4oz	None			
SL12-3.5			9:30						
SL13-1.5			9:45						
SL13-3.5			9:45						
SL14-3.0			9:55						
SL15-3.0			10:00						
SL16-1.0			10:15						
SL17-1.0			10:20						
SL17-3.0			10:20						
SL18-2.5			10:30						

SAMPLER: David Yards

SHIPMENT METHOD:

AIRBILL NO.:

REQUIRED TURNAROUND* ☐ SAME DAY ☑ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE ☐ OTHER

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: [signature]	7/3	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY:	TIME 3:00	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE: [signature]	7/6/00	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: Terry Burns / STL	TIME 9AM	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

SEVERN TRENT LABORATORIES
1721 South Grand Avenue
Santa Ana, CA 92705
Phone: (714) 258-8610 / Fax: (714) 258-0921

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WARRANTY. STL makes no warranty or representation, express or implied, or guarantee of results from the performance of services pursuant to this Agreement. Any information, recommendation, interpretation, or opinion by STL is based upon inferences and assumptions which are subject to error, and with respect to which analysis may differ. Accordingly, STL does not assume any liability with respect to the use of, or for damages resulting from the use of, any information, data, test results, analysis, apparatus, method, or process disclosed by STL. STL makes no presentation or warranty of any kind, including but not limited to, the warranties of fitness for a particular purpose or merchantability, nor are any such warranties to be implied with respect to the data or service furnished. STL assumes no responsibility with respect to Customer's use thereof.

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APPLICABLE LAW. The validity, performance and construction of this Agreement shall be governed by and construed in accordance with the laws of the State of Delaware.

DRAFT — REVISION 1/27/99

STL Cooler Receipt Form/Narrative
North Canton Facility

Client: RMT Project: _____ Quote#: _____
Cooler Received on: 7-6-00 Opened on: 7-6-00 by: Terry Burns (Signature)

Fedx ☒ Client Drop Off ☐ UPS ☐ Airborne ☐
Other: _____

Cooler ☐ Safe ☐ Foam Box ☐ Client Cooler ☒ Other: _____
STL Shipper No#: _____

1. Were custody seals on the outside of the cooler and intact? Yes ☒ No ☐
   If YES, Quantity 1 Location over lid
   Were the custody seals signed and dated? Yes ☒ No ☐ NA ☐
2. Shipper's packing slip attached to this form? Yes ☒ No ☐
3. Were custody papers included inside the cooler and relinquished? Yes ☒ No ☐
4. Did you sign the custody papers in the appropriate place? Yes ☒ No ☐
5. Packing material used:
Peanuts ☐ Bubble Wrap ☒ Vermiculite ☐ Foam ☐ None ☐ Other: _____
6. Cooler temperature upon receipt 2.7 °C (see back of form for multiple coolers/temp)
METHOD: Temperature Vial ☐ Coolant ☒ Against Bottles ☐
COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Were all the bottles sealed in separate plastic bags? Yes ☒ No ☐
8. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐
9. Did all bottle labels and tags agree with the custody papers? Yes ☒ No ☐
10. Were samples at the correct pH? Yes ☐ No ☐ NA ☒
11. Were correct bottles used for the tests indicated? Yes ☒ No ☐
12. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☐ NA ☒
13. Was a sufficient amount of sample sent in each bottle? Yes ☒ No ☐
Contacted PM _____ Date: _____ by: _____ via Voice Mail ☐ Verbal ☐ Other ☐
Concerning: _____

√	MACRO	MACRO
1. CHAIN OF CUSTODY		
✓	SR1A	Samples were received under proper custody procedures and without discrepancies.
	SR1B	The chain of custody and sample bottles did not agree. The following discrepancies occurred _____
2. SAMPLE CONDITION		
	SR2A	Sample(s) _____ were received or requested after the recommended holding time had expired.
	SR2B	Sample(s) _____ were received with insufficient volume
	SR2C	Sample(s) _____ were received in a broken container.
3. SAMPLE PRESERVATION		
	SR3A	Sample(s) _____ were further preserved in sample receiving to meet recommended pH level(s).
	SR3B	Sample(s) _____ were received with bubble > 6 mm in diameter (cc: PM)
4. NCM		
	SR4A	NCM has been generated. Refer to Clouseau for details
5. Other Anomalies (see below or back)		

Revision 13, June 19, 2000
SOP: NC-SC-0005, Sample Receiving
n:\qaqc\narrativ\stl\cooler_stl.doc

STL Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

Cooler	Temp	Method	Comments

Discrepancies Cont.

Macro Name:

Macro Name:

Macro Name:

Macro Name:

Other Anomalies:

Revision 13, June 19, 2000
SOP: NC-SC-0005, Sample Receiving
n:\qaqc\narrativ\stl\cooler_stl.doc

PESTICIDE / PCB SUMMARY

RMT

Lab Name:Severn Trent Laboratories, Inc. SDG Number:G06146

Matrix: (soil/water) SO
Method: OCLP OLM03.1
Pesticides/PCB (CLP-OLM03.1)

Lab Sample ID:A0G060146 001

Sample WT/Vol: 30 / g
Work Order: DFQLJ103
Dilution factor: 5
Moisture %:0.0

Date Received: 07/06/00
Date Extracted:07/11/00
Date Analyzed: 07/14/00

QC Batch: 0193481

Client Sample Id: SL12-1.0'

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	29	
5103-71-9	alpha-Chlordane	10	P
5103-74-2	gamma-Chlordane	44	
60-57-1	Dieldrin	20	
76-44-8	Heptachlor	8.5	U
1024-57-3	Heptachlor epoxide	8.5	U
8001-35-2	Toxaphene	850	U

FORM I

RMT
MATRIX SPIKE COMPOUNDS

Lab Name:Severn Trent Laboratories, Inc. SDG Number:G06146

Matrix: (soil/water) SO Lab Sample ID:A0G060146 001
Method: OCLP OLM03.1
Pesticides/PCB (CLP-OLM03.1)

Sample WT/Vol: 30 / g Date Received: 07/06/00
Work Order: DFQLJ104 Date Extracted:07/11/00
Dilution factor: 5 Date Analyzed: 07/14/00
Moisture %:0.0

QC Batch: 0193481

Client Sample Id: SL12-1.0'

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	37	
60-57-1	Dieldrin	44	
76-44-8	Heptachlor	15	

FORM I

RMT

MATRIX SPIKE DUPLICATE COMPOUNDS

Lab Name:Severn Trent Laboratories, Inc. SDG Number:G06146

Matrix: (soil/water) SO Lab Sample ID:A0G060146 001
Method: OCLP OLM03.1
Pesticides/PCB (CLP-OLM03.1)

Sample WT/Vol: 30 / g Date Received: 07/06/00
Work Order: DFQLJ105 Date Extracted:07/11/00
Dilution factor: 5 Date Analyzed: 07/14/00
Moisture %:0.0

QC Batch: 0193481

Client Sample Id: SL12-1.0'

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	38	
60-57-1	Dieldrin	47	
76-44-8	Heptachlor	16	

FORM I

RMT

Lab Name:Severn Trent Laboratories, Inc. SDG Number:G06146

Matrix: (soil/water) SO Lab Sample ID:A0G060146 002
Method: OCLP OLM03.1
Pesticides/PCB (CLP-OLM03.1)

Sample WT/Vol: 30 / g Date Received: 07/06/00
Work Order: DFQPJ103 Date Extracted:07/11/00
Dilution factor: 1 Date Analyzed: 07/14/00
Moisture %:25

QC Batch: 0193481

Client Sample Id: SL12-3.5'

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	~~2.3~~ 1.7	~~J~~
5103-71-9	alpha-Chlordane	2.3	U
5103-74-2	gamma-Chlordane	~~2.3~~ 1.3	~~J~~
60-57-1	Dieldrin	4.4	U
76-44-8	Heptachlor	2.3	U
1024-57-3	Heptachlor epoxide	2.3	U
8001-35-2	Toxaphene	230	U

LM 7/24/00

FORM I

RMT

Lab Name:Severn Trent Laboratories, Inc. SDG Number:G06146

Matrix: (soil/water) SO Lab Sample ID:A0G060146 003
Method: OCLP OLM03.1
Pesticides/PCB (CLP-OLM03.1)

Sample WT/Vol: 30 / g Date Received: 07/06/00
Work Order: DFQPM103 Date Extracted:07/11/00
Dilution factor: 5 Date Analyzed: 07/14/00
Moisture %:19

QC Batch: 0193481

Client Sample Id: SL13-1.5'

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	53	
5103-71-9	alpha-Chlordane	10	U
5103-74-2	gamma-Chlordane	24	
60-57-1	Dieldrin	36	
76-44-8	Heptachlor	10	U
1024-57-3	Heptachlor epoxide	10	U
8001-35-2	Toxaphene	1000	U

FORM I

RMT

Lab Name:Severn Trent Laboratories, Inc. SDG Number:G06146

Matrix: (soil/water) SO Lab Sample ID:A0G060146 004
Method: OCLP OLM03.1
Pesticides/PCB (CLP-OLM03.1)

Sample WT/Vol: 30 / g Date Received: 07/06/00
Work Order: DFQPW103 Date Extracted:07/11/00
Dilution factor: 1 Date Analyzed: 07/14/00
Moisture %:17

QC Batch: 0193481

Client Sample Id: SL13-3.5'

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	2.8	
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	2.8	
60-57-1	Dieldrin	~~4.0~~ 3.8	~~U~~ J
76-44-8	Heptachlor	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
8001-35-2	Toxaphene	210	U

lm 7/24/00

FORM I

RMT

Lab Name:Severn Trent Laboratories, Inc. SDG Number:G06146

Matrix: (soil/water) SO Lab Sample ID:A0G060146 005
Method: OCLP OLM03.1
Pesticides/PCB (CLP-OLM03.1)

Sample WT/Vol: 30 / g Date Received: 07/06/00
Work Order: DFQQ0103 Date Extracted:07/11/00
Dilution factor: 1 Date Analyzed: 07/14/00
Moisture %:18

QC Batch: 0193481

Client Sample Id: SL14-3.0'

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	2.1	U
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	~~2.1~~ 1.2	P ~~U~~
60-57-1	Dieldrin	4.0	U
76-44-8	Heptachlor	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
8001-35-2	Toxaphene	210	U

cm 7/24/00

FORM I

RMT

Lab Name:Severn Trent Laboratories, Inc. SDG Number:G06146

Matrix: (soil/water) SO Lab Sample ID:A0G060146 006
Method: OCLP OLM03.1
Pesticides/PCB (CLP-OLM03.1)

Sample WT/Vol: 30 / g Date Received: 07/06/00
Work Order: DFQQ3103 Date Extracted:07/11/00
Dilution factor: 5 Date Analyzed: 07/14/00
Moisture %:15

QC Batch: 0193481

Client Sample Id: SL15-3.0'

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	48	
5103-71-9	alpha-Chlordane	10	U
5103-74-2	gamma-Chlordane	10	U
60-57-1	Dieldrin	19	U
76-44-8	Heptachlor	10	U
1024-57-3	Heptachlor epoxide	10	U
8001-35-2	Toxaphene	1000	U

FORM I

RMT

Lab Name:Severn Trent Laboratories, Inc. SDG Number:G06146

Matrix: (soil/water) SO Lab Sample ID:A0G060146 007
Method: OCLP OLM03.1
Pesticides/PCB (CLP-OLM03.1)

Sample WT/Vol: 30 / g Date Received: 07/06/00
Work Order: DFQQ4103 Date Extracted:07/11/00
Dilution factor: 50 Date Analyzed: 07/14/00
Moisture %:19

QC Batch: 0193481

Client Sample Id: SL16-1.0'

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	~~110~~ 61	P J ~~U~~
5103-71-9	alpha-Chlordane	890	P
5103-74-2	gamma-Chlordane	220	P
60-57-1	Dieldrin	1300	P
76-44-8	Heptachlor	110	U
1024-57-3	Heptachlor epoxide	110	U
8001-35-2	Toxaphene	11000	U

LM 7/24/00

FORM I

RMT

Lab Name:Severn Trent Laboratories, Inc. SDG Number:G06146

Matrix: (soil/water) SO Lab Sample ID:A0G060146 007
Method: OCLP OLM03.1
Pesticides/PCB (CLP-OLM03.1)

Sample WT/Vol: 30 / g Date Received: 07/06/00
Work Order: DFQQ4203 Date Extracted:07/11/00
Dilution factor: 500 Date Analyzed: 07/14/00
Moisture %:19

QC Batch: 0193481

Client Sample Id: SL16-1.0' -RE 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	1100	U
5103-71-9	alpha-Chlordane	~~1100~~ 630	~~U~~ PJ
5103-74-2	gamma-Chlordane	1100	U
60-57-1	Dieldrin	2000	U
76-44-8	Heptachlor	1100	U
1024-57-3	Heptachlor epoxide	1100	U
8001-35-2	Toxaphene	110000	U

LM 7/24/00

FORM I

RMT

Lab Name:Severn Trent Laboratories, Inc. SDG Number:G06146

Matrix: (soil/water) SO Lab Sample ID:A0G060146 008
Method: OCLP OLM03.1
Pesticides/PCB (CLP-OLM03.1)

Sample WT/Vol: 30 / g Date Received: 07/06/00
Work Order: DFQQ5103 Date Extracted:07/11/00
Dilution factor: 100 Date Analyzed: 07/14/00
Moisture %:18

QC Batch: 0193481

Client Sample Id: SL17-1.0'

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	15000	E C
5103-71-9	alpha-Chlordane	210	U
5103-74-2	gamma-Chlordane	~~210~~ 110	J ~~U~~
60-57-1	Dieldrin	400	U
76-44-8	Heptachlor	210	U
1024-57-3	Heptachlor epoxide	210	U
8001-35-2	Toxaphene	21000	U

UM 7/24/00

FORM I

RMT

Lab Name:Severn Trent Laboratories, Inc. SDG Number:G06146

Matrix: (soil/water) SO
Method: OCLP OLM03.1
Pesticides/PCB (CLP-OLM03.1)

Lab Sample ID:A0G060146 008

Sample WT/Vol: 30 / g
Work Order: DFQQ5203
Dilution factor: 1000
Moisture %:18

Date Received: 07/06/00
Date Extracted:07/11/00
Date Analyzed: 07/14/00

QC Batch: 0193481

Client Sample Id: SL17-1.0' -RE 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	19000	C
5103-71-9	alpha-Chlordane	2100	U
5103-74-2	gamma-Chlordane	2100	U
60-57-1	Dieldrin	4000	U
76-44-8	Heptachlor	2100	U
1024-57-3	Heptachlor epoxide	2100	U
8001-35-2	Toxaphene	210000	U

FORM I

RMT

Lab Name:Severn Trent Laboratories, Inc. SDG Number:G06146

Matrix: (soil/water) SO Lab Sample ID:A0G060146 009
Method: OCLP OLM03.1
Pesticides/PCB (CLP-OLM03.1)

Sample WT/Vol: 30 / g Date Received: 07/06/00
Work Order: DFQQ9103 Date Extracted:07/11/00
Dilution factor: 50 Date Analyzed: 07/14/00
Moisture %:26

QC Batch: 0193481

Client Sample Id: SL17-3.0'

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	8300	PEC
5103-71-9	alpha-Chlordane	110	U
5103-74-2	gamma-Chlordane	~~120~~ 58	J ~~U~~
60-57-1	Dieldrin	~~220~~ 140	J ~~U~~
76-44-8	Heptachlor	110	U
1024-57-3	Heptachlor epoxide	110	U
8001-35-2	Toxaphene	11000	U

MM 7/24/00

FORM I

RMT

Lab Name:Severn Trent Laboratories, Inc. SDG Number:G06146

Matrix: (soil/water) SO Lab Sample ID:A0G060146 009
Method: OCLP OLM03.1
Pesticides/PCB (CLP-OLM03.1)

Sample WT/Vol: 30 / g Date Received: 07/06/00
Work Order: DFQQ9203 Date Extracted:07/11/00
Dilution factor: 500 Date Analyzed: 07/14/00
Moisture %:26

QC Batch: 0193481

Client Sample Id: SL17-3.0' -RE 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	18000	C
5103-71-9	alpha-Chlordane	1100	U
5103-74-2	gamma-Chlordane	1100	U
60-57-1	Dieldrin	2200	U
76-44-8	Heptachlor	1100	U
1024-57-3	Heptachlor epoxide	1100	U
8001-35-2	Toxaphene	110000	U

FORM I

RMT

Lab Name:Severn Trent Laboratories, Inc. SDG Number:G06146

Matrix: (soil/water) SO Lab Sample ID:A0G060146 010
Method: OCLP OLM03.1
Pesticides/PCB (CLP-OLM03.1)

Sample WT/Vol: 30 / g Date Received: 07/06/00
Work Order: DFQQC103 Date Extracted:07/11/00
Dilution factor: 1 Date Analyzed: 07/14/00
Moisture %:16

QC Batch: 0193481

Client Sample Id: SL18-2.5'

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	7.6	
5103-71-9	alpha-Chlordane	4.1	
5103-74-2	gamma-Chlordane	9.9	
60-57-1	Dieldrin	26	
76-44-8	Heptachlor	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
8001-35-2	Toxaphene	200	U

FORM I

RMT

Lab Name:Severn Trent Laboratories, Inc. SDG Number:G06146

Matrix: (soil/water) SO Lab Sample ID:A0G060146 011
Method: OCLP OLM03.1
Pesticides/PCB (CLP-OLM03.1)

Sample WT/Vol: 30 / g Date Received: 07/06/00
Work Order: DFQQN103 Date Extracted:07/11/00
Dilution factor: 1 Date Analyzed: 07/14/00
Moisture %:23

QC Batch: 0193481

Client Sample Id: SL19-1.0'

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	2.2	
5103-71-9	alpha-Chlordane	3.4	P
5103-74-2	gamma-Chlordane	5.7	
60-57-1	Dieldrin	9.1	
76-44-8	Heptachlor	~~2.2~~ 1.3	PJ ~~U~~
1024-57-3	Heptachlor epoxide	2.2	U
8001-35-2	Toxaphene	220	U

LM 7/24/00

FORM I

RMT

Lab Name:Severn Trent Laboratories, Inc. SDG Number:G06146

Matrix: (soil/water) SO Lab Sample ID:A0G060146 012
Method: OCLP OLM03.1
Pesticides/PCB (CLP-OLM03.1)

Sample WT/Vol: 30 / g Date Received: 07/06/00
Work Order: DFQQP103 Date Extracted:07/11/00
Dilution factor: 1 Date Analyzed: 07/14/00
Moisture %:16

QC Batch: 0193481

Client Sample Id: SL20-2.0'

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	2.7	P
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	3.3	P
60-57-1	Dieldrin	9.7	P
76-44-8	Heptachlor	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
8001-35-2	Toxaphene	200	U

FORM I

RMT

Lab Name:Severn Trent Laboratories, Inc. SDG Number:G06146

Matrix: (soil/water) SO Lab Sample ID:A0G060146 013
Method: OCLP OLM03.1
Pesticides/PCB (CLP-OLM03.1)

Sample WT/Vol: 30 / g Date Received: 07/06/00
Work Order: DFQQT103 Date Extracted:07/11/00
Dilution factor: 1 Date Analyzed: 07/14/00
Moisture %:16

QC Batch: 0193481

Client Sample Id: SL20-2.0'DUP

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	3.3	
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
60-57-1	Dieldrin	11	P
76-44-8	Heptachlor	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
8001-35-2	Toxaphene	200	U

FORM I

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: 40325 SDG No.: G06146

GC Column(1): DB608 ID: 0.53 (mm) GC Column(2): DB1701 ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	SL12-1.0	87	152D*	95	93			1Ø
02	SL12-1.0MS	91	152D*	110	106			1Ø
03	SL12-1.0MSD	94	153D*	111	108			1Ø
04	SL12-3.5	66	78	102	103			0
05	SL13-1.5	96	107	116	111			0
06	SL13-3.5	76	80	98	99			0
07	SL14-3.0	79	81	104	105			0
08	SL15-3.0	90	87	110	107			0
09	SL16-1.0	88D	141D	23D	0D			0
10	SL16-1.0DIL	0D	90D	0D	0D			0
11	SL17-1.0	0D	287D	0D	0D			0
12	SL17-1.0DIL	0D	225D	0D	0D			0
13	SL17-3.0	0D	216D	131D	0D			0
14	SL17-3.0DIL	0D	140D	0D	0D			0
15	SL18-2.5	72	79	104	107			0
16	SL19-1.0	87	88	114	107			0
17	SL20-2.0	75	76	123	122			0
18	SL20-2.0DUP	75	76	96	96			0
19	PBLK1	92	95	107	107			0
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

LM 7/24/00

ADVISORY
QC LIMITS

S1 (TCX) = Tetrachloro-m-xylene (30-150)
S2 (DCB) = Decachlorobiphenyl (30-150)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

OCLP OLM03.1 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: RMT

Lab Code: QESCAN SDG No: G06146

Matrix Spike ID: SL12-1.0'

Lot #: A0G060146 WO #: DFQLJ104
BATCH: 0193481

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
Aldrin	17	29	37	51	34 - 132	
Dieldrin	33	20	44	72	31 - 134	
Heptachlor	17	ND	15	92	35 - 130	

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 3 outside limits

COMMENTS:

FORM III

OCLP OLM03.1 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn-Trent Laboratories, Inc. Client: RMT

Lab Code: QESCAN SDG No: G06146

Matrix Spike ID: SL12-1.0'

Lot #: A0G060146 WO #: DFQLJ105
BATCH: 0193481

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	QUAL
Aldrin	17	38	54	1.4	43	34- 132	
Dieldrin	33	47	79	4.5	38	31- 134	
Heptachlor	17	16	98	6.2	31	35- 130	

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 3 outside limits
Spike Recovery: 0 out of 3 outside limits

COMMENTS:

FORM III

4C
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK1

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: 40325 SDG No.: G06146

Lab Sample ID: DG1PV101 Lab File ID: D-A4220

Matrix (soil/water) SOIL Extraction:(SepF/Cont/Sonc) SW3550

Sulfur Cleanup (Y/N) N Date Extracted: 07/11/00

Date Analyzed (1): 07/14/00 Date Analyzed (2): 07/14/00

Time Analyzed (1): 1013 Time Analyzed (2): 1013

Instrument ID (1): GC4 Instrument ID (2): GC4

GC Column (1): DB608 ID: 0.53(mm) GC Column (2): DB1701 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	SL12-1.0	DFQLJ103	07/14/00	07/14/00
02	SL12-1.0MS	DFQLJ104	07/14/00	07/14/00
03	SL12-1.0MSD	DFQLJ105	07/14/00	07/14/00
04	SL12-3.5	DFQPJ103	07/14/00	07/14/00
05	SL13-1.5	DFQPM103	07/14/00	07/14/00
06	SL13-3.5	DFQPW103	07/14/00	07/14/00
07	SL14-3.0	DFQQ0103	07/14/00	07/14/00
08	SL15-3.0	DFQQ3103	07/14/00	07/14/00
09	SL16-1.0	DFQQ4103	07/14/00	07/14/00
10	SL16-1.0DIL	DFQQ4203DIL	07/14/00	07/14/00
11	SL17-1.0	DFQQ5103	07/14/00	07/14/00
12	SL17-1.0DIL	DFQQ5203DIL	07/14/00	07/14/00
13	SL17-3.0	DFQQ9103	07/14/00	07/14/00
14	SL17-3.0DIL	DFQQ9203DIL	07/14/00	07/14/00
15	SL18-2.5	DFQQC103	07/14/00	07/14/00
16	SL19-1.0	DFQQN103	07/14/00	07/14/00
17	SL20-2.0	DFQQP103	07/14/00	07/14/00
18	SL20-2.0DUP	DFQQT103	07/14/00	07/14/00
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS:

RMT
METHOD BLANK COMPOUNDS

Lab Name:Severn Trent Laboratories, Inc. SDG Number:G06146

Matrix: (soil/water) SOLID Lab Sample ID:C0G110000 481
Method: OCLP OLM03.1
Pesticides/PCB (CLP-OLM03.1)

Sample WT/Vol: 30 / g Date Received: 07/06/00
Work Order: DG1PV101 Date Extracted:07/11/00
Dilution factor: 1 Date Analyzed: 07/14/00
Moisture %:NA

QC Batch: 0193481

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	1.7	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
60-57-1	Dieldrin	3.3	U
76-44-8	Heptachlor	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
8001-35-2	Toxaphene	170	U

FORM I

PESTICIDE / PCB DATA

PESTICIDE / PCB
QC SUMMARY

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: 40325 SDG No.: G06146

GC Column(1): DB608 ID: 0.53 (mm) GC Column(2): DB1701 ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	SL12-1.0	87	152D *	95	93			1 ~~0~~
02	SL12-1.0MS	91	152D *	110	106			1 ~~0~~
03	SL12-1.0MSD	94	153D *	111	108			1 ~~0~~ LM 7/24/96
04	SL12-3.5	66	78	102	103			0
05	SL13-1.5	96	107	116	111			0
06	SL13-3.5	76	80	98	99			0
07	SL14-3.0	79	81	104	105			0
08	SL15-3.0	90	87	110	107			0
09	SL16-1.0	88D	141D	23D	0D			0
10	SL16-1.0DIL	0D	90D	0D	0D			0
11	SL17-1.0	0D	287D	0D	0D			0
12	SL17-1.0DIL	0D	225D	0D	0D			0
13	SL17-3.0	0D	216D	131D	0D			0
14	SL17-3.0DIL	0D	140D	0D	0D			0
15	SL18-2.5	72	79	104	107			0
16	SL19-1.0	87	88	114	107			0
17	SL20-2.0	75	76	123	122			0
18	SL20-2.0DUP	75	76	96	96			0
19	PBLK1	92	95	107	107			0
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

ADVISORY
QC LIMITS

S1 (TCX) = Tetrachloro-m-xylene (30-150)
S2 (DCB) = Decachlorobiphenyl (30-150)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

OCLP OLM03.1 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: RMT

Lab Code: QESCAN SDG No: G06146

Matrix Spike ID: SL12-1.0'

Lot #: A0G060146 WO #: DFQLJ104
BATCH: 0193481

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
Aldrin	17	29	37	51	34 - 132	
Dieldrin	33	20	44	72	31 - 134	
Heptachlor	17	ND	15	92	35 - 130	

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 3 outside limits

COMMENTS:

FORM III

OCLP OLM03.1 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: RMT

Lab Code: QESCAN SDG No: G06146

Matrix Spike ID: SL12-1.0'

Lot #: A0G060146 WO #: DFQLJ105
BATCH: 0193481

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	QUAL
Aldrin	17	38	54	1.4	43	34 - 132	
Dieldrin	33	47	79	4.5	38	31 - 134	
Heptachlor	17	16	98	6.2	31	35 - 130	

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 3 outside limits
Spike Recovery: 0 out of 3 outside limits

COMMENTS:

FORM III

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK1

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: 40325 SDG No.: G06146

Lab Sample ID: DG1PV101 Lab File ID: D-A4220

Matrix (soil/water) SOIL Extraction:(SepF/Cont/Sonc) SW3550

Sulfur Cleanup (Y/N) N Date Extracted: 07/11/00

Date Analyzed (1): 07/14/00 Date Analyzed (2): 07/14/00

Time Analyzed (1): 1013 Time Analyzed (2): 1013

Instrument ID (1): GC4 Instrument ID (2): GC4

GC Column (1): DB608 ID: 0.53(mm) GC Column (2): DB1701 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	SL12-1.0	DFQLJ103	07/14/00	07/14/00
02	SL12-1.0MS	DFQLJ104	07/14/00	07/14/00
03	SL12-1.0MSD	DFQLJ105	07/14/00	07/14/00
04	SL12-3.5	DFQPJ103	07/14/00	07/14/00
05	SL13-1.5	DFQPM103	07/14/00	07/14/00
06	SL13-3.5	DFQPW103	07/14/00	07/14/00
07	SL14-3.0	DFQQ0103	07/14/00	07/14/00
08	SL15-3.0	DFQQ3103	07/14/00	07/14/00
09	SL16-1.0	DFQQ4103	07/14/00	07/14/00
10	SL16-1.0DIL	DFQQ4203DIL	07/14/00	07/14/00
11	SL17-1.0	DFQQ5103	07/14/00	07/14/00
12	SL17-1.0DIL	DFQQ5203DIL	07/14/00	07/14/00
13	SL17-3.0	DFQQ9103	07/14/00	07/14/00
14	SL17-3.0DIL	DFQQ9203DIL	07/14/00	07/14/00
15	SL18-2.5	DFQQC103	07/14/00	07/14/00
16	SL19-1.0	DFQQN103	07/14/00	07/14/00
17	SL20-2.0	DFQQP103	07/14/00	07/14/00
18	SL20-2.0DUP	DFQQT103	07/14/00	07/14/00
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS:

PESTICIDE / PCB
SAMPLE DATA

RMT

Lab Name:Severn Trent Laboratories, Inc. SDG Number:G06146

Matrix: (soil/water) SO
Method: OCLP OLM03.1
Pesticides/PCB (CLP-OLM03.1)

Lab Sample ID:A0G060146 001

Sample WT/Vol: 30 / g
Work Order: DFQLJ103
Dilution factor: 5
Moisture %:0.0

Date Received: 07/06/00
Date Extracted:07/11/00
Date Analyzed: 07/14/00

QC Batch: 0193481

Client Sample Id: SL12-1.0'

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	29	
5103-71-9	alpha-Chlordane	10	P
5103-74-2	gamma-Chlordane	44	
60-57-1	Dieldrin	20	
76-44-8	Heptachlor	8.5	U
1024-57-3	Heptachlor epoxide	8.5	U
8001-35-2	Toxaphene	850	U

FORM I

STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-a4202.d
Lab Smp Id: DFQLJ103 Client Smp ID: SL12-1.0
Inj Date : 14-JUL-2000 01:55
Operator : 01891 Inst ID: gc4.i
Smp Info : DFQLJ103,4130-G.b,,all.sub,5,,
Misc Info : 060146-1
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4A.m
Meth Date : 14-Jul-2000 10:10 matkol Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-a4199.d
Als bottle: 1
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.40 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	5.000	Dilution Factor
Uf	2.000	GPC Correction factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.000	% Moisture

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
# 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.133	6.140	-0.007	24321	0.00694	11.56	80.00- 120.00	100.00
2 Aroclor-1221					CAS #: 11104-28-2		

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

3 Aroclor-1232 CAS #: 11141-16-5

Peaks not detected for Quant. or Qual. signal(s).

---

4 Aroclor-1016 CAS #: 12674-11-2

Peaks not detected for Quant. or Qual. signal(s).

---

5 alpha-BHC CAS #: 319-84-6

Compound Not Detected

---

6 Aroclor-1242 CAS #: 53469-21-9

Peaks not detected for Quant. or Qual. signal(s).

---

7 gamma-BHC(Lindane) CAS #: 58-89-9

Compound Not Detected

---

8 beta-BHC CAS #: 319-85-7

Compound Not Detected

---

9 Heptachlor CAS #: 76-44-8

Compound Not Detected

---

10 Aroclor-1248 CAS #: 12672-29-6

Peaks not detected for Quant. or Qual. signal(s).

---

11 delta-BHC CAS #: 319-86-8

11.633	11.637	-0.004	8604	0.00272	4.534	80.00- 120.00	100.00(m)

---

12 Aldrin CAS #: 309-00-2

12.353	12.352	0.001	45703	0.01760	29.33	80.00- 120.00	100.00

---

13 Heptachlor epoxide CAS #: 1024-57-3

Compound Not Detected

---

14 gamma-Chlordane CAS #: 5103-74-2

14.547	14.551	-0.004	83114	0.02629	43.81	80.00- 120.00	100.00

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
15 Aroclor-1254					CAS #: 11097-69-1		

Peaks not detected for Quant. or Qual. signal(s).

---

16 alpha-Chlordane					CAS #: 5103-71-9		
14.900	14.900	0.000	20320	0.00609	10.15	80.00- 120.00	100.00

---

17 Endosulfan I — CAS #: 959-98-8

Compound Not Detected

---

19 4,4'-DDE — CAS #: 72-55-9

Compound Not Detected

---

20 Dieldrin					CAS #: 60-57-1		
15.540	15.545	-0.005	45129	0.01221	20.34	80.00- 120.00	100.00

---

21 Aroclor-1260 — CAS #: 11096-82-5

Peaks not detected for Quant. or Qual. signal(s).

---

22 Endrin — CAS #: 72-20-8

Compound Not Detected

---

23 4,4'-DDD					CAS #: 72-54-8		
16.327	16.327	0.000	29209	0.00969	16.16	80.00- 120.00	100.00(m)

---

18 Toxaphene — CAS #: 8001-35-2

Peaks not detected for Quant. or Qual. signal(s).

---

24 Endosulfan II — CAS #: 33213-65-9

Compound Not Detected

---

25 4,4'-DDT — CAS #: 50-29-3

Compound Not Detected

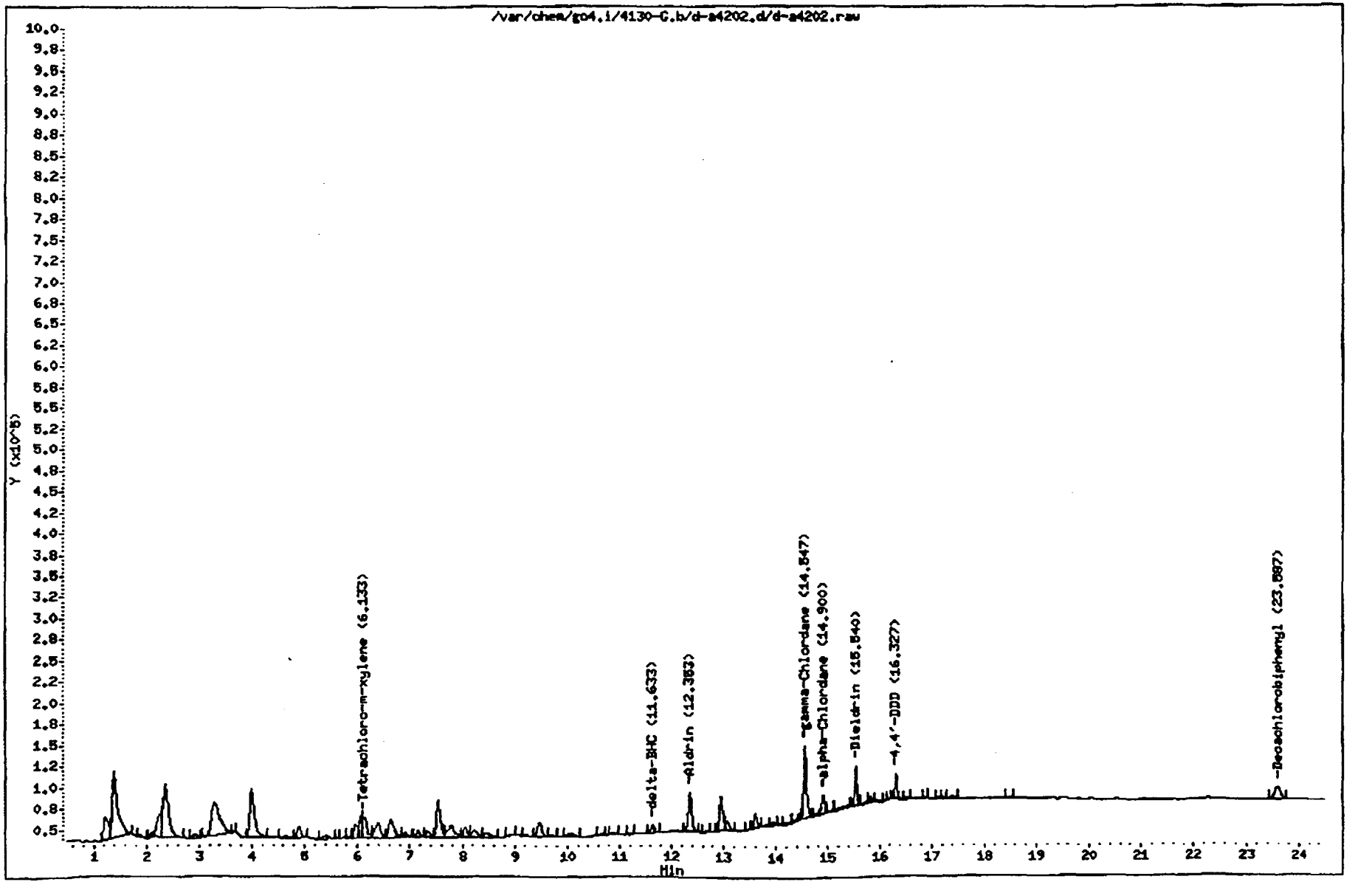
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
26 Endrin aldehyde					CAS #: 7421-93-4		
Compound Not Detected							
27 Endosulfan sulfate					CAS #: 1031-07-8		
Compound Not Detected							
28 Methoxychlor					CAS #: 72-43-5		
Compound Not Detected							
29 Endrin ketone					CAS #: 53494-70-5		
Compound Not Detected							
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
23.587	23.587	0.000	13313	0.00760	12.66	80.00- 120.00	100.00

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: /var/chem/gc4.i/4130-G.b/d-a4202.d
Date : 14-JUL-2000 01:55
Client ID: SL12-1.0
Sample Info: DFQLJ103,4130-G.b,,all,sub,5,,
Volume Injected (uL): 1.0
Column phase: DB608

Instrument: gc4.i
Operator: 01891
Column diameter: 0.53

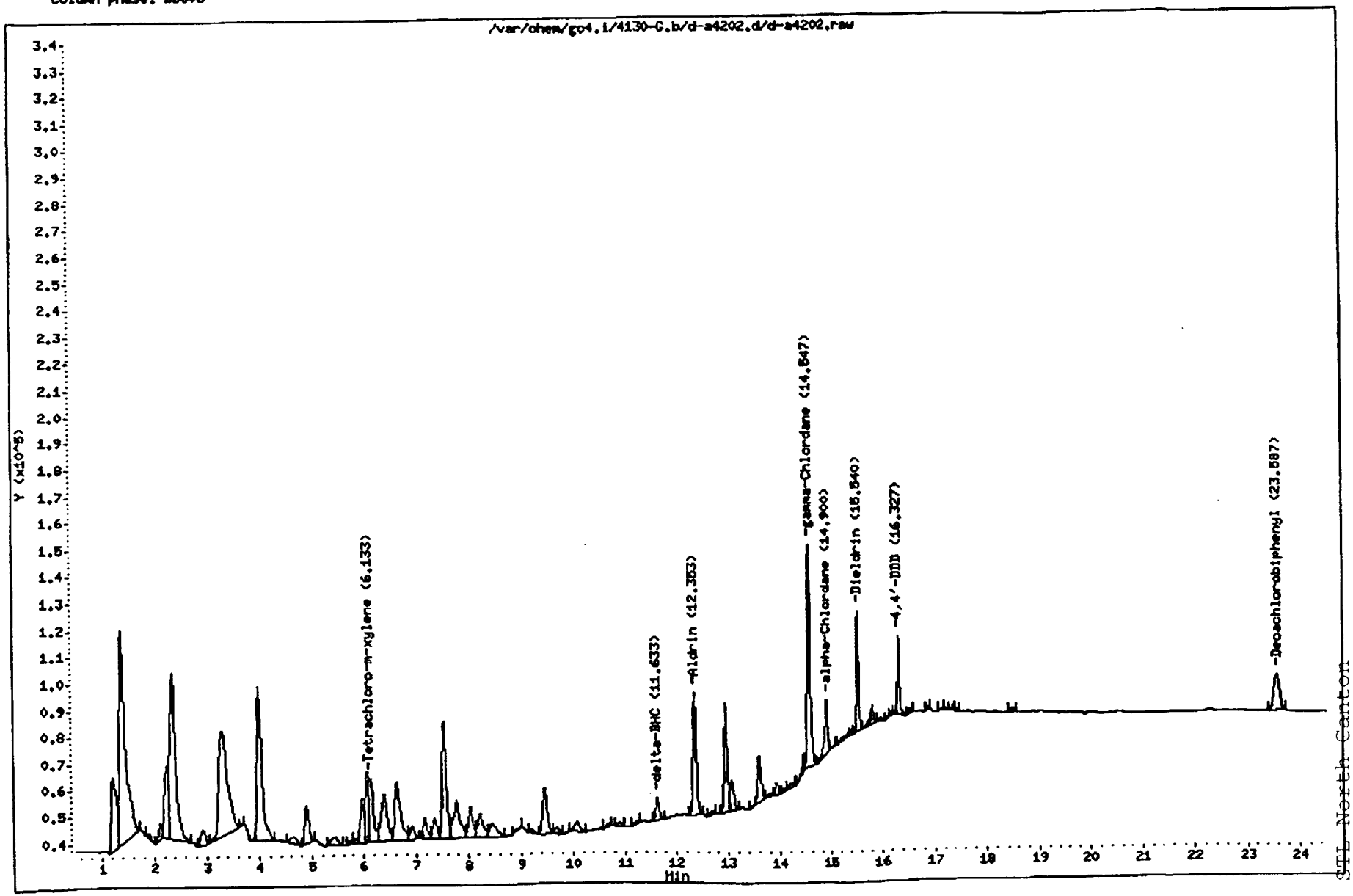


Page 1

Data File: /var/chem/go4.i/4130-G.b/d-a4202.d
Date : 14-JUL-2000 01:55
Client ID: SL12-1.0
Sample Info: DFQLJ103,4130-G.b,,all.sub,5,,
Volume Injected (uL): 1.0
Column phase: DB608

Instrument: go4.i

Operator: 01891
Column diameter: 0.53



STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-b4202.d
Lab Smp Id: DFQLJ103 Client Smp ID: SL12-1.0
Inj Date : 14-JUL-2000 01:55
Operator : 01891 Inst ID: gc4.i
Smp Info : DFQLJ103,4130-G.b,,all.sub,5,,
Misc Info : 060146-1
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4B.m
Meth Date : 14-Jul-2000 10:49 matkol Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-b4199.d
Als bottle: 1
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.40 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	5.000	Dilution Factor
Uf	2.000	GPC Correction factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.000	% Moisture

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.127	6.133	-0.006	30872	0.01219	20.32	80.00- 120.00	100.00(R)
2 Aroclor-1221					CAS #: 11104-28-2		

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO

4 Aroclor-1232 CAS #: 11141-16-5

Peaks not detected for Quant. or Qual. signal(s).

---

5 alpha-BHC CAS #: 319-84-6

Compound Not Detected

---

3 Aroclor-1016 CAS #: 12674-11-2

Peaks not detected for Quant. or Qual. signal(s).

---

8 Aroclor-1242 CAS #: 53469-21-9

Peaks not detected for Quant. or Qual. signal(s).

---

6 gamma-BHC(Lindane) CAS #: 58-89-9

Compound Not Detected

---

9 Aroclor-1248 CAS #: 12672-29-6

Peaks not detected for Quant. or Qual. signal(s).

---

7 Heptachlor CAS #: 76-44-8

Compound Not Detected

---

10 Aldrin CAS #: 309-00-2

12.260	12.260	0.000	217144	0.01727	28.79	80.00- 120.00	100.00

---

11 beta-BHC CAS #: 319-85-7

Compound Not Detected

---

12 delta-BHC CAS #: 319-86-8

Compound Not Detected

---

13 Heptachlor epoxide CAS #: 1024-57-3

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
14 Aroclor-1254					CAS #: 11097-69-1		
Peaks not detected for Quant. or Qual. signal(s).							
15 Endosulfan I					CAS #: 959-98-8		
Compound Not Detected							
16 gamma-Chlordane					CAS #: 5103-74-2		
14.973	14.972	0.001	89320	0.02656	44.27	80.00- 120.00	100.00
17 alpha-Chlordane					CAS #: 5103-71-9		
15.080	15.080	0.000	27025	0.00784	13.07	80.00- 120.00	100.00
18 4,4'-DDE					CAS #: 72-55-9		
Compound Not Detected							
19 Dieldrin					CAS #: 60-57-1		
15.560	15.565	-0.005	46599	0.01225	20.41	80.00- 120.00	100.00
21 Aroclor-1260					CAS #: 11096-82-5		
Peaks not detected for Quant. or Qual. signal(s).							
22 Endrin					CAS #: 72-20-8		
Compound Not Detected							
20 Toxaphene					CAS #: 8001-35-2		
Peaks not detected for Quant. or Qual. signal(s).							
23 4,4'-DDD					CAS #: 72-54-8		
16.533	16.532	0.001	39178	0.01047	17.46	80.00- 120.00	100.00
24 Endosulfan II					CAS #: 33213-65-9		
Compound Not Detected							

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
25 4,4'-DDT					CAS #: 50-29-3		

Compound Not Detected

---

26 Endrin aldehyde					CAS #: 7421-93-4		

Compound Not Detected

---

28 Methoxychlor					CAS #: 72-43-5		

Compound Not Detected

---

27 Endosulfan sulfate					CAS #: 1031-07-8		

Compound Not Detected

---

29 Endrin ketone					CAS #: 53494-70-5		

Compound Not Detected

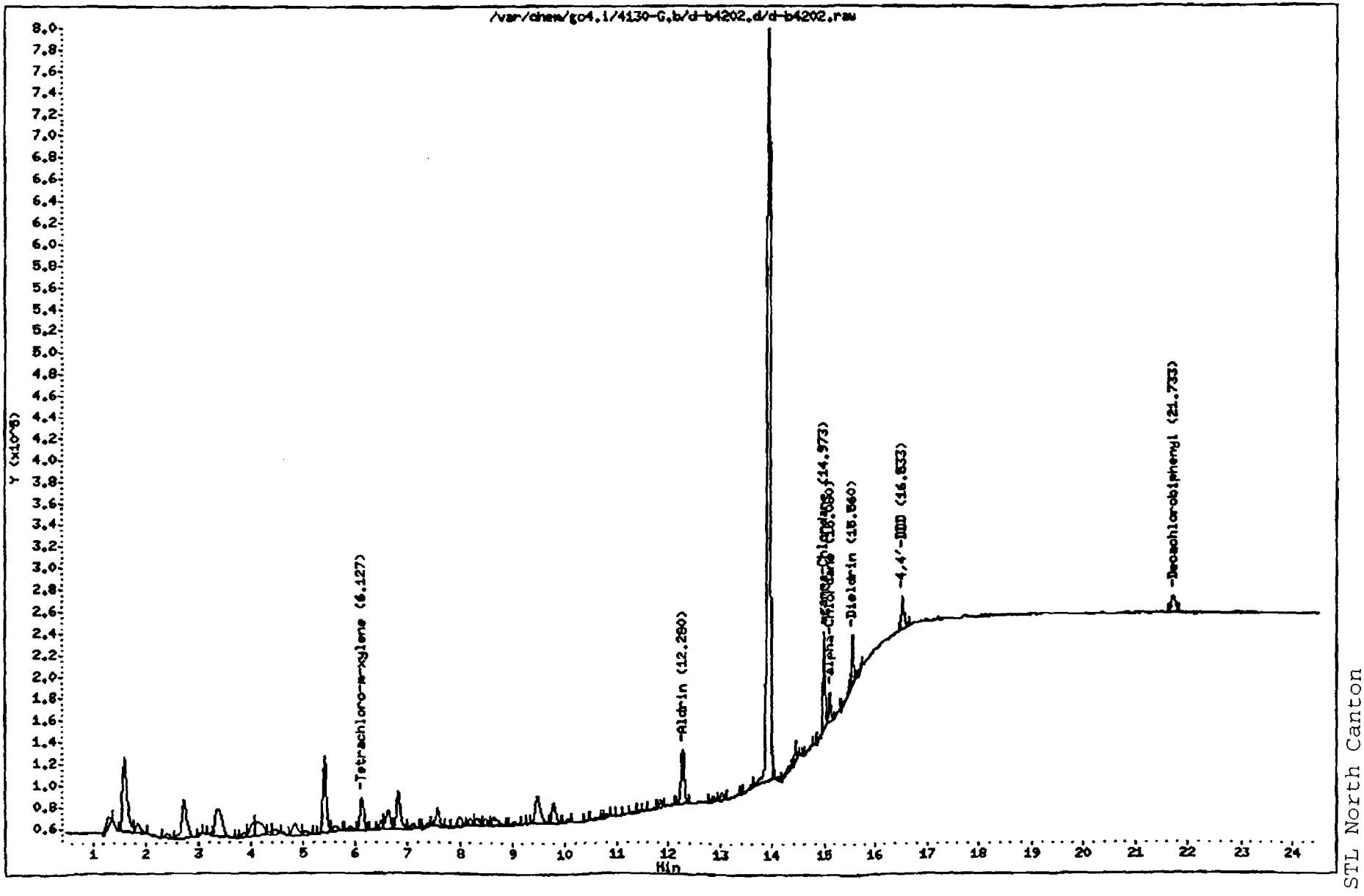
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
21.733	21.738	-0.002	14576	0.00744	12.40	80.00- 120.00	100.00

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

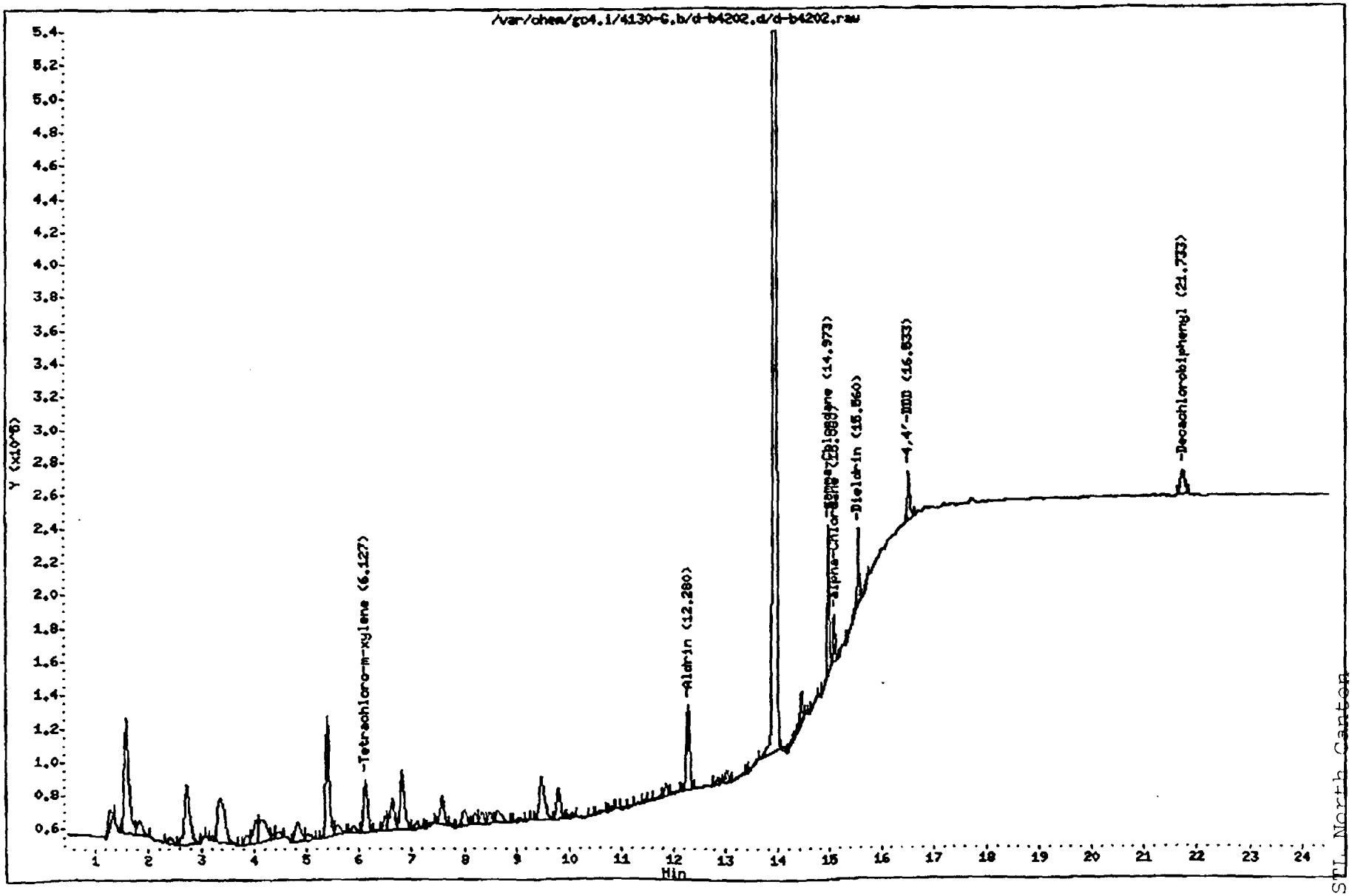
Data File: /var/chem/go4.i/4130-G.b/d-b4202.d
Date : 14-JUL-2000 01:55
Client ID: SL12-1.0
Sample Info: DFQLJ103,4130-G.b,,all.sub,5,,
Volume Injected (uL): 1.0
Column phase: DB1701

Instrument: go4.i
Operator: 01891
Column diameter: 0.53



Data File: /var/chem/gc4.i/4130-G.b/d-b4202.d
Date : 14-JUL-2000 01:55
Client ID: SL12-1.0
Sample Info: DFQLJ103,4130-G.b,,all.sub,5,,
Volume Injected (uL): 1.0
Column phase: DB1701

Instrument: gc4.i
Operator: 01891
Column diameter: 0.53



10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SL12-1.0

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: 40325 SDG No.: G06146

Lab Sample ID: DFQLJ103 Date(s) Analyzed: 07/14/00 07/14/00

Instrument ID (1): GC4 Instrument ID (2): GC4

GC Column(1): DB608 ID: 0.53(mm) GC Column(2): DB1701 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
Aldrin	1	12.35	12.30	12.40	29.33	
	2	12.28	12.23	12.33	28.79	1.9
Dieldrin	1	15.54	15.47	15.61	20.34	
	2	15.56	15.50	15.64	20.41	0.3
~~4,4'-DDD~~	~~1~~	~~16.33~~	~~16.26~~	~~16.40~~	~~16.16~~	
LM 07/14/00	~~2~~	~~16.53~~	~~16.46~~	~~16.60~~	~~17.46~~	~~8.0~~
alpha-Chlordane	1	14.90	14.83	14.97	10.15	
	2	15.08	15.01	15.15	13.07	28.8
gamma-Chlordane	1	14.55	14.48	14.62	43.81	
	2	14.97	14.90	15.04	44.27	1.0
	1					
	2					
	1					
	2					
	1					
	2					

page 1 of 1

FORM X PEST-1 OLM03.0

RMT

Lab Name:Severn Trent Laboratories, Inc. SDG Number:G06146

Matrix: (soil/water) SO Lab Sample ID:A0G060146 002
Method: OCLP OLM03.1
Pesticides/PCB (CLP-OLM03.1)

Sample WT/Vol: 30 / g Date Received: 07/06/00
Work Order: DFQPJ103 Date Extracted:07/11/00
Dilution factor: 1 Date Analyzed: 07/14/00
Moisture %:25

QC Batch: 0193481

Client Sample Id: SL12-3.5'

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	~~2.5~~ 1.7	~~J~~
5103-71-9	alpha-Chlordane	2.3	U
5103-74-2	gamma-Chlordane	~~2.5~~ 1.3	~~J~~
60-57-1	Dieldrin	4.4	U
76-44-8	Heptachlor	2.3	U
1024-57-3	Heptachlor epoxide	2.3	U
8001-35-2	Toxaphene	230	U

LM 7/24/00

FORM I

STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-a4205.d
Lab Smp Id: DFQPJ103 Client Smp ID: SL12-3.5
Inj Date : 14-JUL-2000 03:18
Operator : 01891 Inst ID: gc4.i
Smp Info : DFQPJ103,4130-G.b,,all.sub,,,
Misc Info : 060146-2
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4A.m
Meth Date : 14-Jul-2000 10:10 matkol Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-a4199.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.40 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	GPC Correction factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.000	% Moisture

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.140	6.140	0.000	91991	0.02623	8.744	80.00- 120.00	100.00
2 Aroclor-1221					CAS #: 11104-28-2		

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO

3 Aroclor-1232 CAS #: 11141-16-5

Peaks not detected for Quant. or Qual. signal(s).

---

4 Aroclor-1016 CAS #: 12674-11-2

Peaks not detected for Quant. or Qual. signal(s).

---

5 alpha-BHC CAS #: 319-84-6

Compound Not Detected

---

6 Aroclor-1242 CAS #: 53469-21-9

Peaks not detected for Quant. or Qual. signal(s).

---

7 gamma-BHC(Lindane) CAS #: 58-89-9

Compound Not Detected

---

8 beta-BHC CAS #: 319-85-7

Compound Not Detected

---

9 Heptachlor CAS #: 76-44-8

Compound Not Detected

---

10 Aroclor-1248 CAS #: 12672-29-6

Peaks not detected for Quant. or Qual. signal(s).

---

11 delta-BHC CAS #: 319-86-8

Compound Not Detected

---

12 Aldrin CAS #: 309-00-2

12.363	12.352	0.001	11268	0.00434	1.446	80.00- 120.00	100.00(m)

---

13 Heptachlor epoxide CAS #: 1024-57-3

Compound Not Detected

---

14 gamma-Chlordane CAS #: 5103-74-2

14.553	14.551	0.002	11320	0.00358	1.193	80.00- 120.00	100.00(m)

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
15 Aroclor-1254					CAS #: 11097-69-1		

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
16 alpha-Chlordane					CAS #: 5103-71-9		
14.840	14.900	-0.060	8867	0.00266	0.8856	80.00- 120.00	100.00(a)

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
17 Endosulfan I					CAS #: 959-98-8		

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
19 4,4'-DDE					CAS #: 72-55-9		

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
20 Dieldrin					CAS #: 60-57-1		

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
21 Aroclor-1260					CAS #: 11096-82-5		

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
22 Endrin					CAS #: 72-20-8		

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
23 4,4'-DDD					CAS #: 72-54-8		

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
24 Toxaphene					CAS #: 8001-35-2		

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
24 Endosulfan II					CAS #: 33213-65-9		

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
25 4,4'-DDT					CAS #: 50-29-3		

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
26 Endrin aldehyde					CAS #: 7421-93-4		
17.180	17.132	0.048	30490	0.01430	4.766	80.00- 120.00	100.00

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
27 Endosulfan sulfate					CAS #: 1031-07-8		
Compound Not Detected							
28 Methoxychlor					CAS #: 72-43-5		
Compound Not Detected							
29 Endrin ketone					CAS #: 53494-70-5		
Compound Not Detected							
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
23.580	23.587	-0.007	71436	0.04077	13.59	80.00- 120.00	100.00

QC Flag Legend

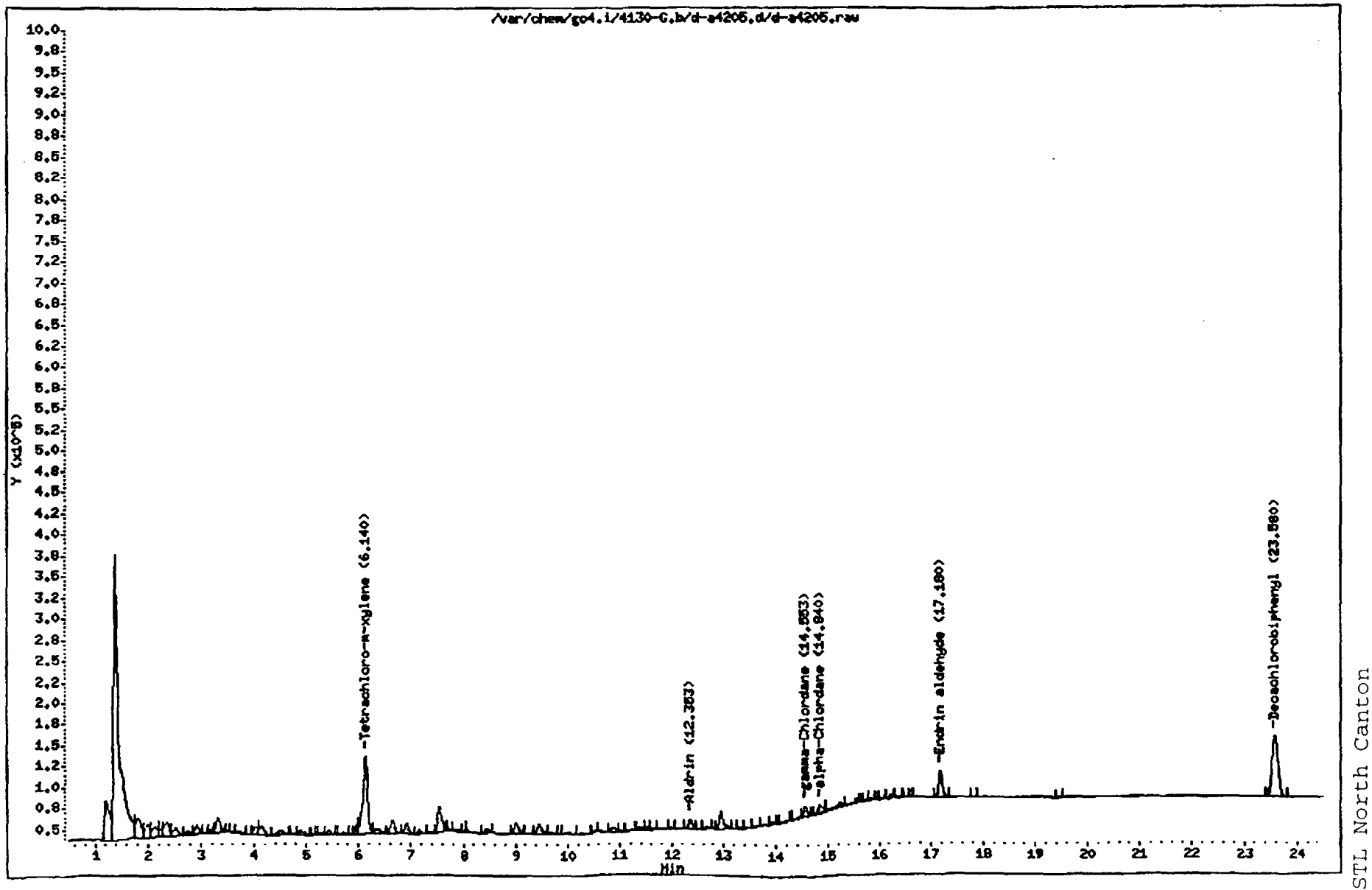
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: /var/chem/gc4.i/4130-C.b/d-a4205.d
Date : 14-JUL-2000 03:18
Client ID: SL12-3.5
Sample Info: DFQPJ103,4130-C.b,,all.sub,,,
Volume Injected (uL): 1.0
Column phase: DB608

Page 5

Instrument: gc4.i

Operator: 01891
Column diameter: 0.53



Data File: /var/chem/gc4.i/4130-G.b/d-a4206.d

Page 1

Date : 14-JUL-2000 03:18

Client ID: SL12-3.5

Instrument: gc4.i

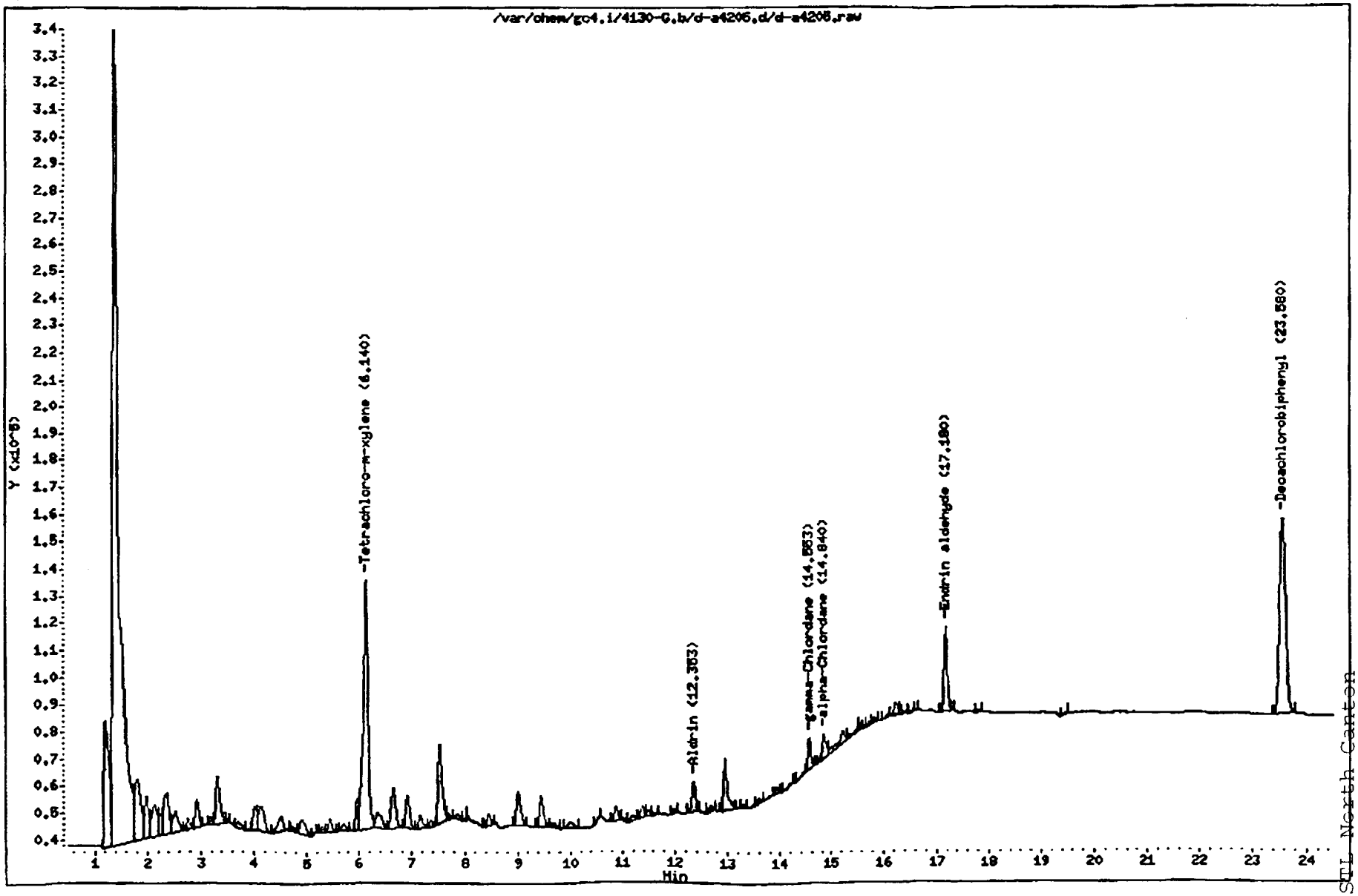
Sample Info: DFQPJ103,4130-G.b,,all.sub,,,

Volume Injected (uL): 1.0

Operator: 01891

Column phase: DB608

Column diameter: 0.53



STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-b4205.d
Lab Smp Id: DFQPJ103 Client Smp ID: SL12-3.5
Inj Date : 14-JUL-2000 03:18
Operator : 01891 Inst ID: gc4.i
Smp Info : DFQPJ103,4130-G.b,,all.sub,,,
Misc Info : 060146-2
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4B.m
Meth Date : 14-Jul-2000 10:49 matkol Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-b4199.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.40 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	GPC Correction factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.000	% Moisture

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.133	6.133	0.000	79353	0.03133	10.44	80.00- 120.00	100.00
2 Aroclor-1221					CAS #: 11104-28-2		

Peaks not detected for Quant. or Qual. signal(s).

4 Aroclor-1232					CAS #: 11141-16-5		
7.987	8.027	-0.040	9333	0.13972	66.57	80.00- 120.00	100.00(a)
9.313	9.333	-0.020	821	0.01453	4.844	19.17- 53.17	5.58
11.053	11.053	0.000	3461	0.04728	15.75	18.39- 55.39	37.08
11.447	11.487	-0.040	1531	0.05950	19.83	9.77- 49.77	16.40
Average of Peak Concentrations =					26.75		

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
5 alpha-BHC					CAS #: 319-84-6		
Compound Not Detected							
3 Aroclor-1016					CAS #: 12674-11-2		
Qualifier signal(s) failed ratio test.							
8 Aroclor-1242					CAS #: 53469-21-9		
Qualifier signal(s) failed ratio test.							
6 gamma-BHC(Lindane)					CAS #: 58-89-9		
Compound Not Detected							
9 Aroclor-1248					CAS #: 12672-29-6		
Peaks not detected for Quant. or Qual. signal(s).							
7 Heptachlor					CAS #: 76-44-8		
Compound Not Detected							
10 Aldrin					CAS #: 309-00-2		
12.280	12.280	0.000	47797	0.00380	1.267	80.00- 120.00	100.00(a)
11 beta-BHC					CAS #: 319-85-7		
Compound Not Detected							
12 delta-BHC					CAS #: 319-86-8		
Compound Not Detected							
13 Heptachlor epoxide					CAS #: 1024-57-3		
Compound Not Detected							
14 Aroclor-1254					CAS #: 11097-69-1		
Peaks not detected for Quant. or Qual. signal(s).							

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
15 Endosulfan I					CAS #: 959-98-8		
Compound Not Detected							
16 gamma-Chlordane					CAS #: 5103-74-2		
14.973	14.972	0.001	9829	0.00292	0.9743	80.00- 120.00	100.00(m)
17 alpha-Chlordane					CAS #: 5103-71-9		
Compound Not Detected							
18 4,4'-DDE					CAS #: 72-55-9		
Compound Not Detected							
19 Dieldrin					CAS #: 60-57-1		
Compound Not Detected							
21 Aroclor-1260					CAS #: 11096-82-5		
Peaks not detected for Quant. or Qual. signal(s).							
22 Endrin					CAS #: 72-20-8		
Compound Not Detected							
20 Toxaphene					CAS #: 8001-35-2		
Peaks not detected for Quant. or Qual. signal(s).							
23 4,4'-DDD					CAS #: 72-54-8		
Compound Not Detected							
24 Endosulfan II					CAS #: 33213-65-9		
Compound Not Detected							
25 4,4'-DDT					CAS #: 50-29-3		
Compound Not Detected							

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
26 Endrin aldehyde					CAS #: 7421-93-4		
Compound Not Detected							
28 Methoxychlor					CAS #: 72-43-5		
Compound Not Detected							
27 Endosulfan sulfate					CAS #: 1031-07-8		
Compound Not Detected							
29 Endrin ketone					CAS #: 53494-70-5		
Compound Not Detected							
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
21.733	21.735	-0.002	80856	0.04127	13.76	80.00- 120.00	100.00

QC Flag Legend

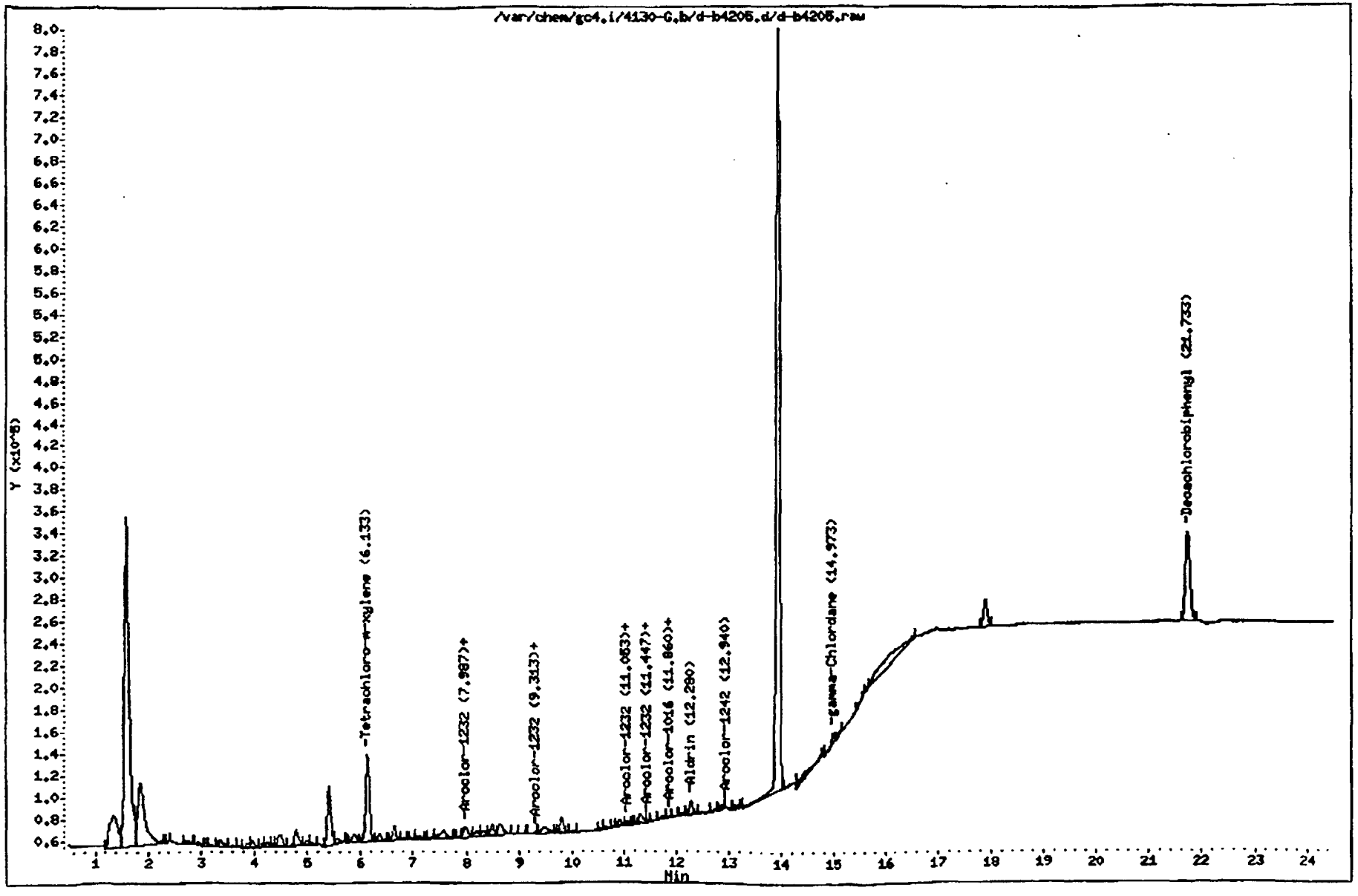
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: /var/chem/gc4.i/4130-G.b/d-b4205.d
Date : 14-JUL-2000 03:18
Client ID: SL12-3.5
Sample Info: DFQPJ103,4130-G.b,,all.sub,,,
Volume Injected (uL): 1.0
Column phase: DB1701

Page 5

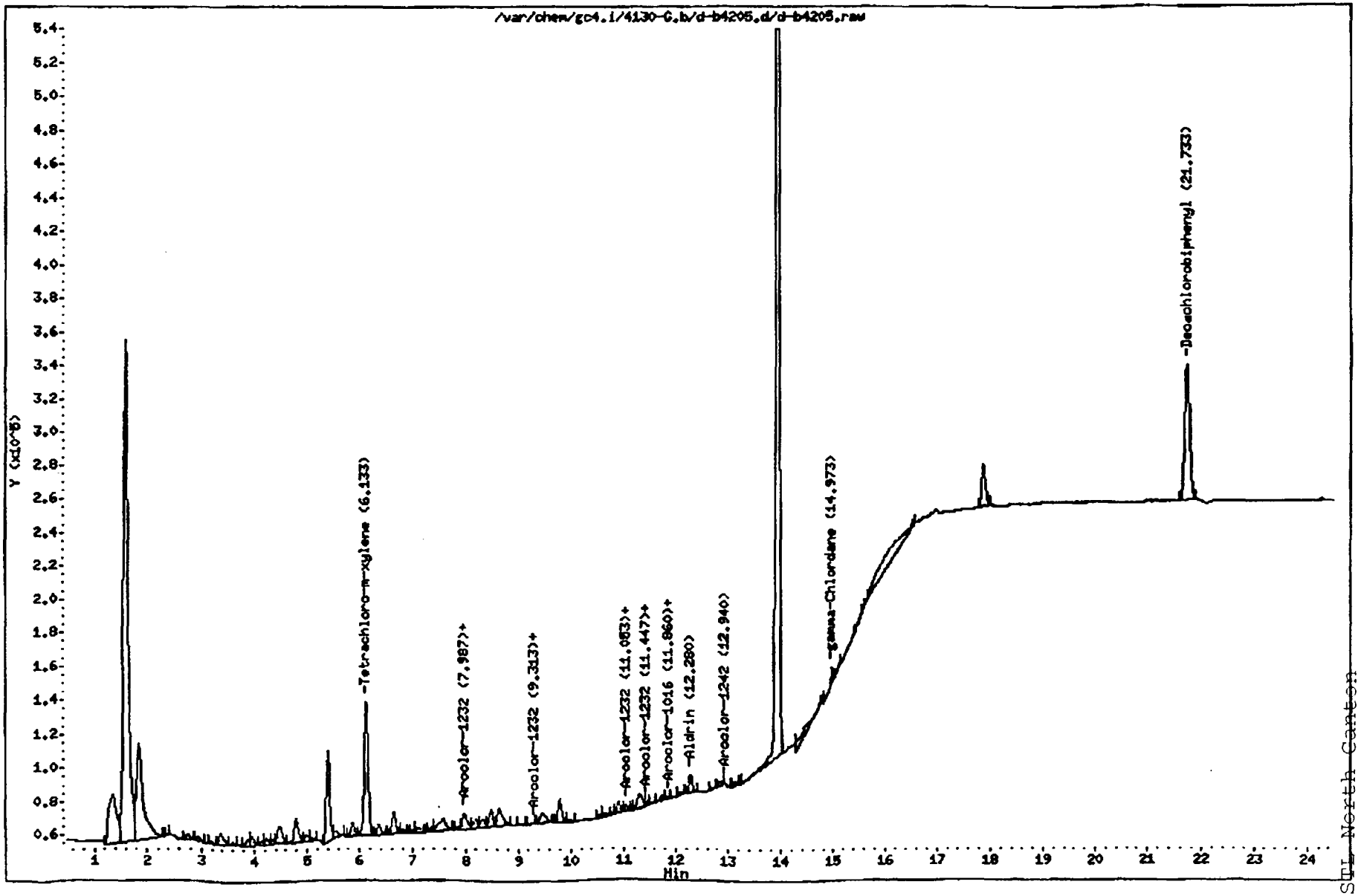
Instrument: gc4.i

Operator: 01891
Column diameter: 0.53



Data File: /var/chem/gc4.i/4130-G.b/d-b4205.d
Date : 14-JUL-2000 03:18
Client ID: SL12-3,5
Sample Info: DFQP3103,4130-G.b,,all.sub,,,
Volume Injected (uL): 1.0
Column phase: DB1701

Instrument: gc4.i
Operator: 01891
Column diameter: 0.53



10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SL12-3.5

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: 40325 SDG No.: G06146

Lab Sample ID: DFQPJ103 Date(s) Analyzed: 07/14/00 07/14/00

Instrument ID (1): GC4 Instrument ID (2): GC4

GC Column(1): DB608 ID: 0.53(mm) GC Column(2): DB1701 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
Aldrin	1	12.35	12.30	12.40	1.446	
	2	12.28	12.23	12.33	1.267	14.1
gamma-Chlordane	1	14.55	14.48	14.62	1.193	
	2	14.97	14.90	15.04	0.9743	22.4
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

RMT

Lab Name:Severn Trent Laboratories, Inc. SDG Number:G06146

Matrix: (soil/water) SO Lab Sample ID:A0G060146 003
Method: OCLP OLM03.1
Pesticides/PCB (CLP-OLM03.1)

Sample WT/Vol: 30 / g Date Received: 07/06/00
Work Order: DFQPM103 Date Extracted:07/11/00
Dilution factor: 5 Date Analyzed: 07/14/00
Moisture %:19

QC Batch: 0193481

Client Sample Id: SL13-1.5'

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	53	
5103-71-9	alpha-Chlordane	10	U
5103-74-2	gamma-Chlordane	24	
60-57-1	Dieldrin	36	
76-44-8	Heptachlor	10	U
1024-57-3	Heptachlor epoxide	10	U
8001-35-2	Toxaphene	1000	U

FORM I

STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-a4206.d
Lab Smp Id: DFQPM103 Client Smp ID: SL13-1.5
Inj Date : 14-JUL-2000 03:46
Operator : 01891 Inst ID: gc4.i
Smp Info : DFQPM103,4130-G.b,,all.sub,5,,
Misc Info : 060146-3
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4A.m
Meth Date : 14-Jul-2000 10:10 matkol Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-a4199.d
Als bottle: 1
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.40 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	5.000	Dilution Factor
Uf	2.000	GPC Correction factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.000	% Moisture

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.140	6.140	0.000	27057	0.00772	12.86	80.00- 120.00	100.00
2 Aroclor-1221					CAS #: 11104-28-2		

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
3 Aroclor-1232					CAS #: 11141-16-5		

Peaks not detected for Quant. or Qual. signal(s).

---

4 Aroclor-1016 CAS #: 12674-11-2

Peaks not detected for Quant. or Qual. signal(s).

---

5 alpha-BHC CAS #: 319-84-6

Compound Not Detected

---

6 Aroclor-1242 CAS #: 53469-21-9

Peaks not detected for Quant. or Qual. signal(s).

---

7 gamma-BHC(Lindane) CAS #: 58-89-9

Compound Not Detected

---

8 beta-BHC CAS #: 319-85-7

Compound Not Detected

---

9 Heptachlor CAS #: 76-44-8

Compound Not Detected

---

10 Aroclor-1248 CAS #: 12672-29-6

Peaks not detected for Quant. or Qual. signal(s).

---

11 delta-BHC CAS #: 319-86-8

Compound Not Detected

---

12 Aldrin CAS #: 309-00-2

12.353	12.352	0.001	67041	0.02581	43.02	80.00- 120.00	100.00

---

13 Heptachlor epoxide CAS #: 1024-57-3

Compound Not Detected

---

14 gamma-Chlordane CAS #: 5103-74-2

14.547	14.551	-0.004	40243	0.01276	21.27	80.00- 120.00	100.00

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
15 Aroclor-1254					CAS #: 11097-69-1		

Peaks not detected for Quant. or Qual. signal(s).

---

16 alpha-Chlordane					CAS #: 5103-71-9		

Compound Not Detected

---

17 Endosulfan I					CAS #: 959-98-8		

Compound Not Detected

---

19 4,4'-DDE					CAS #: 72-55-9		

Compound Not Detected

---

20 Dieldrin					CAS #: 60-57-1		
15.540	15.545	-0.005	64689	0.01750	29.16	80.00- 120.00	100.00

---

21 Aroclor-1260					CAS #: 11096-82-5		

Peaks not detected for Quant. or Qual. signal(s).

---

22 Endrin					CAS #: 72-20-8		

Compound Not Detected

---

23 4,4'-DDD					CAS #: 72-54-8		
16.327	16.327	0.000	72473	0.02408	40.09	80.00- 120.00	100.00

---

18 Toxaphene					CAS #: 8001-35-2		

Peaks not detected for Quant. or Qual. signal(s).

---

24 Endosulfan II					CAS #: 33213-65-9		

Compound Not Detected

---

25 4,4'-DDT					CAS #: 50-29-3		

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
26 Endrin aldehyde					CAS #: 7421-93-4		
Compound Not Detected							
27 Endosulfan sulfate					CAS #: 1031-07-8		
Compound Not Detected							
28 Methoxychlor					CAS #: 72-43-5		
Compound Not Detected							
29 Endrin ketone					CAS #: 53494-70-5		
Compound Not Detected							
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
23.587	23.587	0.000	16274	0.00929	15.48	80.00- 120.00	100.00

Data File: /var/chem/gc4.i/4130-G.b/d-a4206.d

Date : 14-JUL-2000 03:46

Client ID: SL13-1.5

Instrument: gc4.i

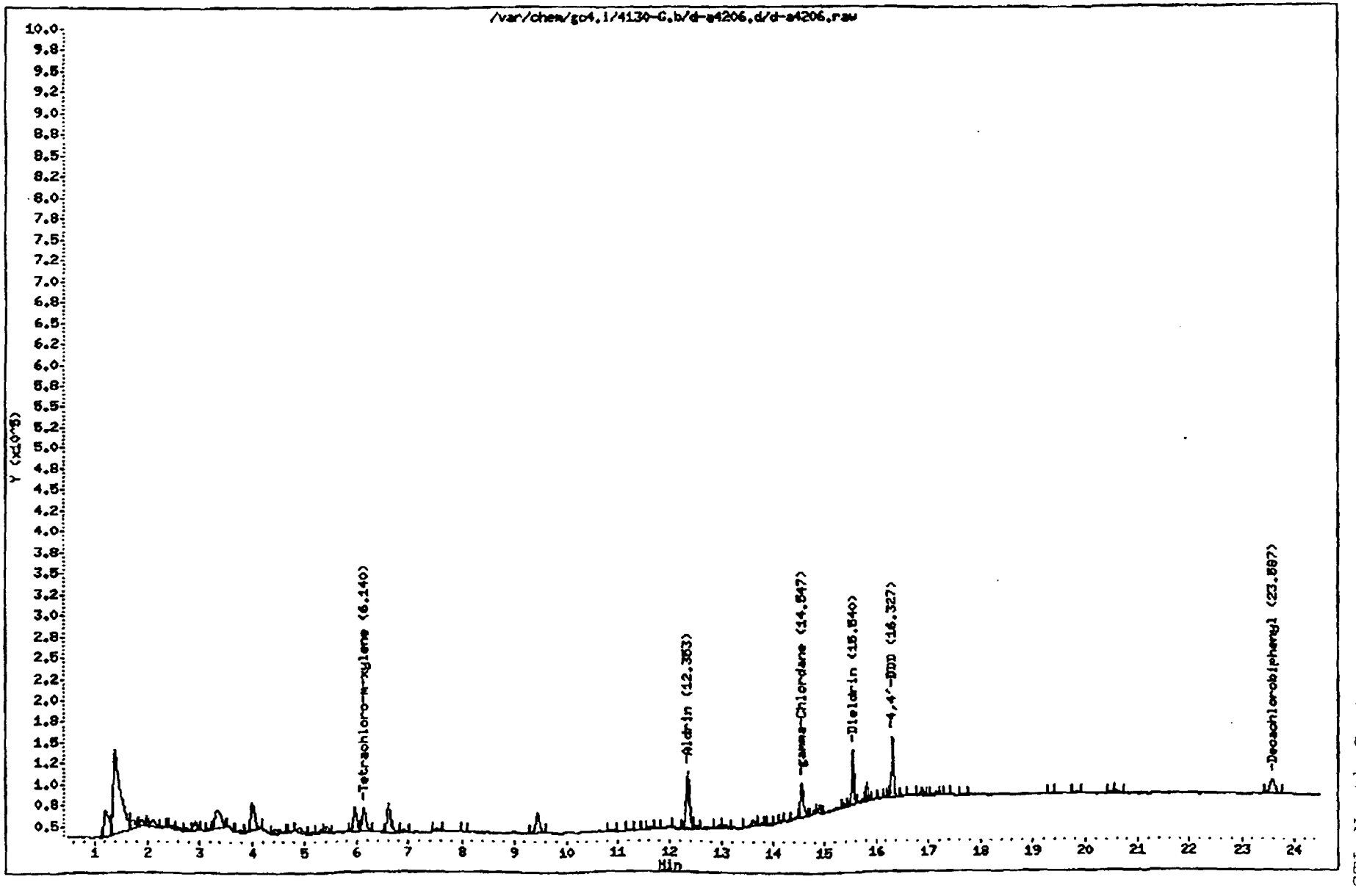
Sample Info: DFQPM103,4130-G.b,,all.sub,5,,

Volume Injected (uL): 1.0

Operator: 01891

Column phase: DB608

Column diameter: 0.53



Data File: /var/chem/gc4.i/4130-C.b/d-a4206.d

Date : 14-JUL-2000 03:46

Client ID: SL13-1.5

Instrument: gc4.i

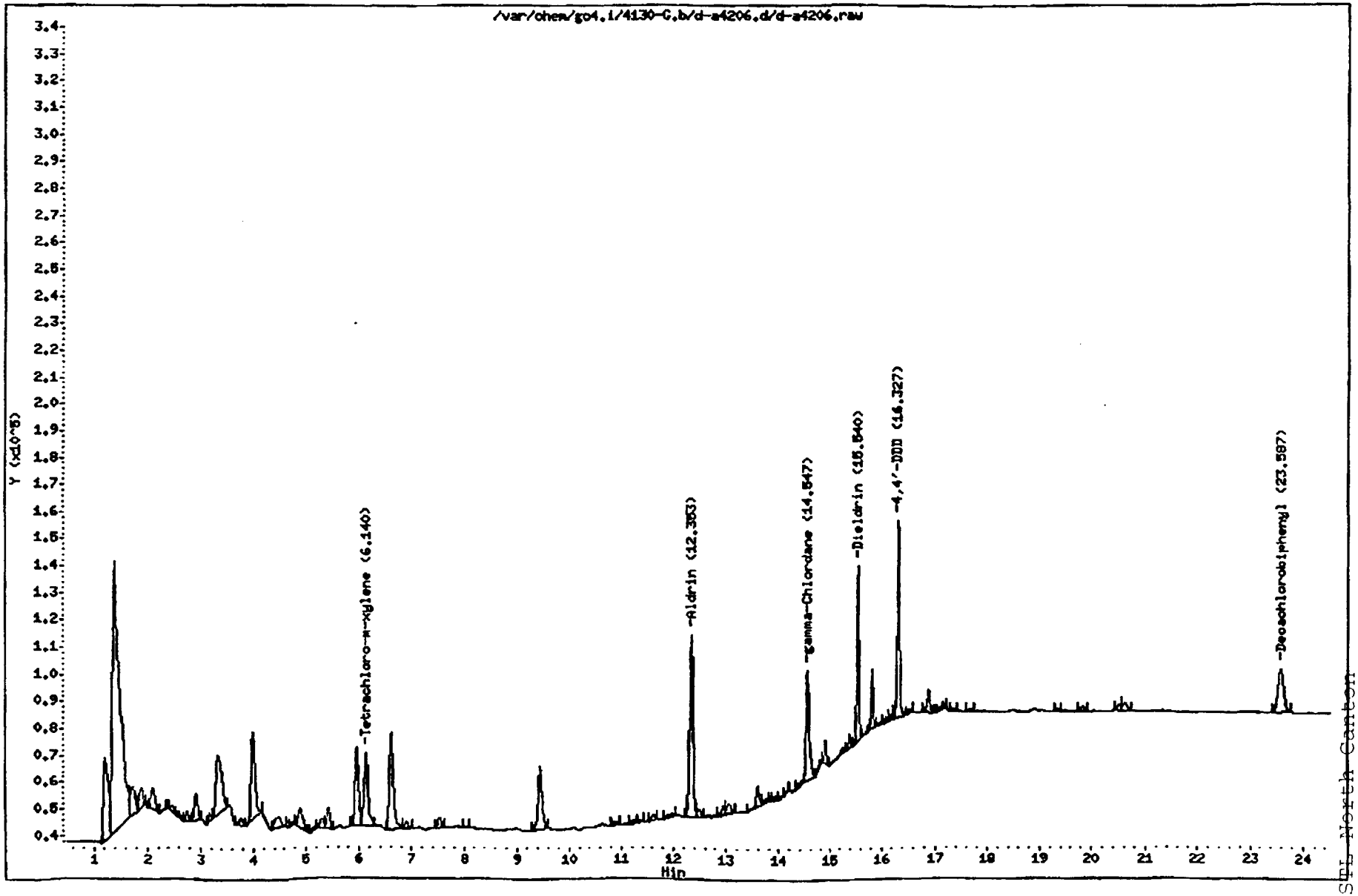
Sample Info: DFQPH103,4130-C.b,,all,sub,5,,

Volume Injected (uL): 1.0

Operator: 01891

Column phase: DB608

Column diameter: 0.53



STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-b4206.d
Lab Smp Id: DFQPM103 Client Smp ID: SL13-1.5
Inj Date : 14-JUL-2000 03:46
Operator : 01891 Inst ID: gc4.i
Smp Info : DFQPM103,4130-G.b,,all.sub,5,,
Misc Info : 060146-3
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4B.m
Meth Date : 14-Jul-2000 10:49 matkol Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-b4199.d
Als bottle: 1
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.40 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	5.000	Dilution Factor
Uf	2.000	GPC Correction factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.000	% Moisture

	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
	6.133	6.133	0.000	21654	0.00855	14.28	80.00- 120.00	100.00
2 Aroclor-1221						CAS #: 11104-28-2		

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

4 Aroclor-1232 CAS #: 11141-16-5

Peaks not detected for Quant. or Qual. signal(s).

---

5 alpha-BHC CAS #: 319-84-6

Compound Not Detected

---

3 Aroclor-1016 CAS #: 12674-11-2

Peaks not detected for Quant. or Qual. signal(s).

---

8 Aroclor-1242 CAS #: 53469-21-9

Peaks not detected for Quant. or Qual. signal(s).

---

6 gamma-BHC(Lindane) CAS #: 58-89-9

Compound Not Detected

---

9 Aroclor-1248 CAS #: 12672-29-6

Peaks not detected for Quant. or Qual. signal(s).

---

7 Heptachlor CAS #: 76-44-8

Compound Not Detected

---

10 Aldrin CAS #: 309-00-2

12.280	12.280	0.000	325392	0.02588	43.14	80.00- 120.00	100.00

---

11 beta-BHC CAS #: 319-85-7

Compound Not Detected

---

12 delta-BHC CAS #: 319-86-8

Compound Not Detected

---

13 Heptachlor epoxide CAS #: 1024-57-3

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
14 Aroclor-1254					CAS #: 11097-69-1		
Peaks not detected for Quant. or Qual. signal(s).							
15 Endosulfan I					CAS #: 959-98-8		
Compound Not Detected							
16 gamma-Chlordane					CAS #: 5103-74-2		
14.973	14.972	0.001	39357	0.01170	19.51	80.00- 120.00	100.00
17 alpha-Chlordane					CAS #: 5103-71-9		
15.087	15.080	0.007	14580	0.00423	7.048	80.00- 120.00	100.00(a)
18 4,4'-DDE					CAS #: 72-55-9		
Compound Not Detected							
19 Dieldrin					CAS #: 60-57-1		
15.567	15.565	0.002	68247	0.01790	29.83	80.00- 120.00	100.00
21 Aroclor-1260					CAS #: 11096-82-5		
Peaks not detected for Quant. or Qual. signal(s).							
22 Endrin					CAS #: 72-20-8		
Compound Not Detected							
20 Toxaphene					CAS #: 8001-35-2		
Peaks not detected for Quant. or Qual. signal(s).							
23 4,4'-DDD					CAS #: 72-54-8		
16.533	16.532	0.001	67230	0.02413	40.22	60.00- 120.00	100.00
24 Endosulfan II					CAS #: 33213-65-9		
Compound Not Detected							

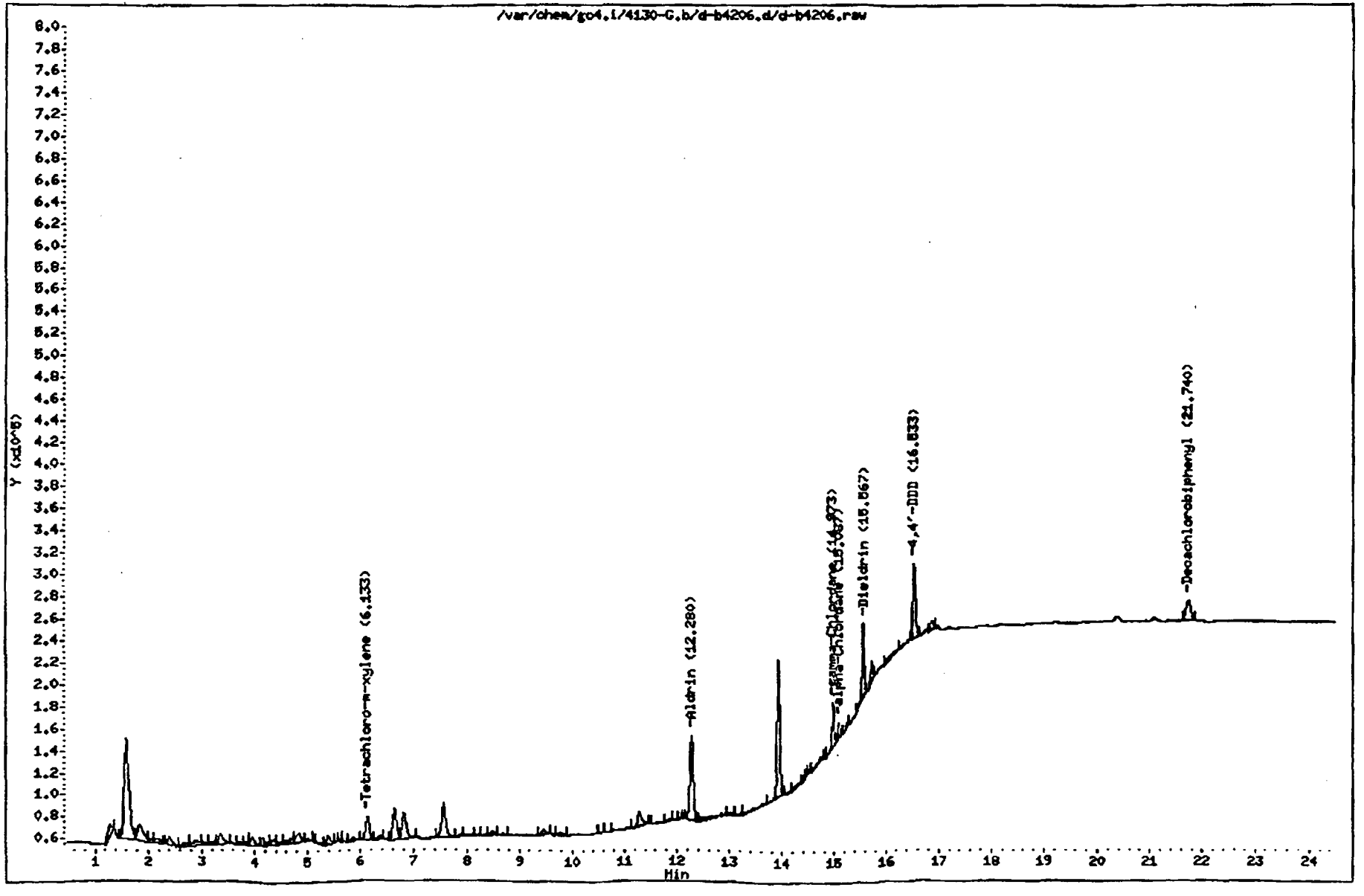
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
25 4,4'-DDT					CAS #: 50-29-3		
Compound Not Detected							
26 Endrin aldehyde					CAS #: 7421-93-4		
Compound Not Detected							
28 Methoxychlor					CAS #: 72-43-5		
Compound Not Detected							
27 Endosulfan sulfate					CAS #: 1031-07-8		
Compound Not Detected							
29 Endrin ketone					CAS #: 53494-70-5		
Compound Not Detected							
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
21.740	21.735	0.005	17247	0.00885	14.76	80.00- 120.00	100.00

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

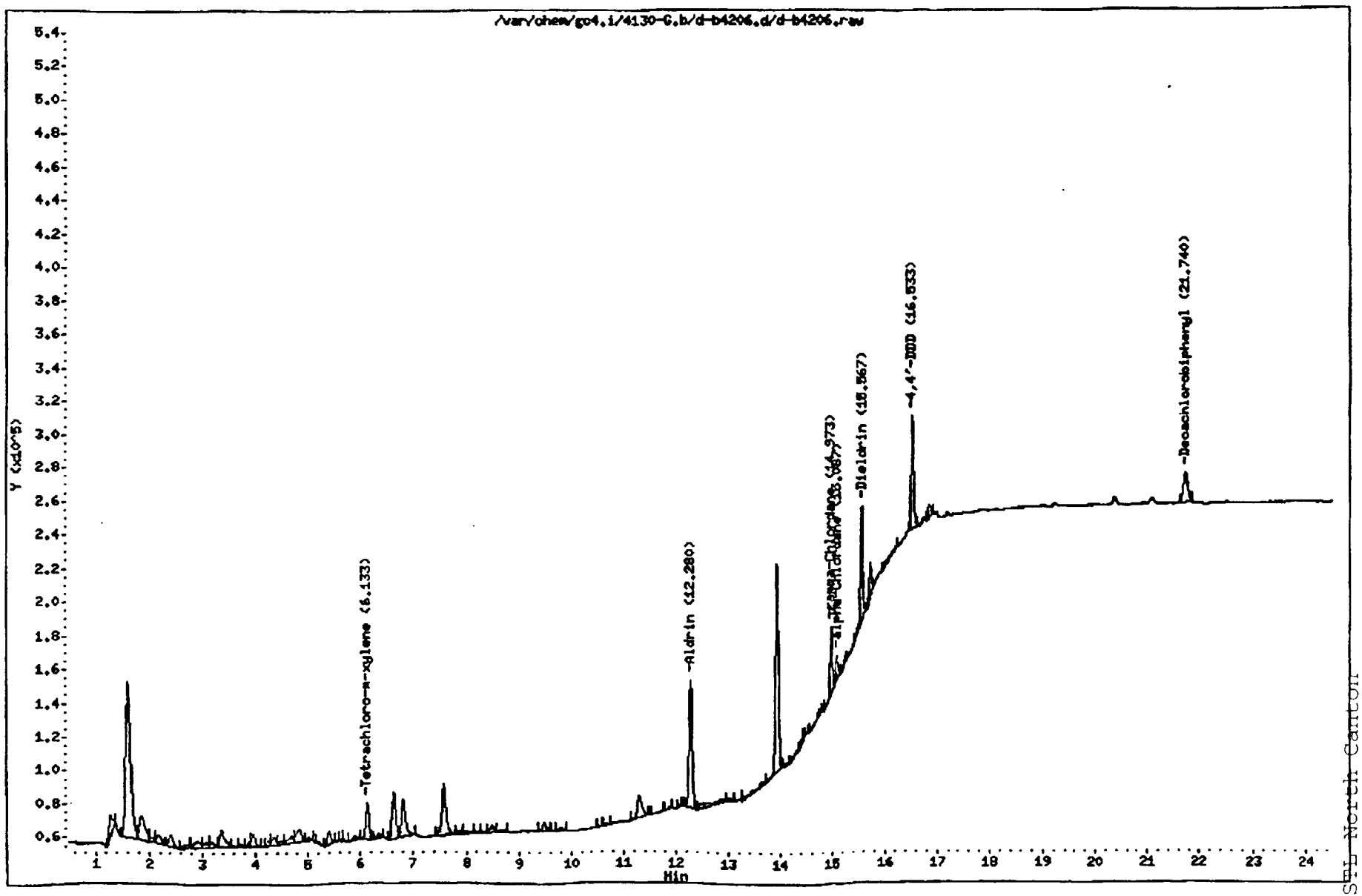
Data File: /var/chem/go4.i/4130-G.b/d-b4206.d
Date : 14-JUL-2000 03:46
Client ID: SL13-1.5
Sample Info: DFQPH103,4130-G.b,,all.sub,5,,
Volume Injected (uL): 1.0
Column phase: DB1701

Instrument: go4.i
Operator: 01891
Column diameter: 0.53



Data File: /var/chem/go4.i/4130-G.b/d-b4206.d
Date : 14-JUL-2000 03:46
Client ID: SL13-1.5
Sample Info: DFQPM103,4130-G.b,,all,sub,5,,
Volume Injected (uL): 1.0
Column phase: DB1701

Instrument: go4.i
Operator: 01891
Column diameter: 0.53



10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SL13-1.5

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: 40325 SDG No.: G06146

Lab Sample ID: DFQPM103 Date(s) Analyzed: 07/14/00 07/14/00

Instrument ID (1): GC4 Instrument ID (2): GC4

GC Column(1): DB608 ID: 0.53(mm) GC Column(2): DB1701 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
Aldrin	1	12.35	12.30	12.40	43.02	
	2	12.28	12.23	12.33	43.14	0.3
Dieldrin	1	15.54	15.47	15.61	29.16	
	2	15.57	15.50	15.64	29.83	2.3
4,4'-DDD	~~1~~	~~16.33~~	~~16.26~~	~~16.40~~	~~40.09~~	
UM 7/14/00	2	16.53	16.46	16.60	40.22	0.3
gamma-Chlordane	1	14.55	14.48	14.62	21.27	
	2	14.97	14.90	15.04	19.51	9.0
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

page 1 of 1

FORM X PEST-1 OLM03.0

RMT

Lab Name:Severn Trent Laboratories, Inc. SDG Number:G06146

Matrix: (soil/water) SO Lab Sample ID:A0G060146 004
Method: OCLP OLM03.1
Pesticides/PCB (CLP-OLM03.1)

Sample WT/Vol: 30 / g Date Received: 07/06/00
Work Order: DFQPW103 Date Extracted:07/11/00
Dilution factor: 1 Date Analyzed: 07/14/00
Moisture %:17

QC Batch: 0193481

Client Sample Id: SL13-3.5'

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	2.8	
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	2.8	
60-57-1	Dieldrin	~~4.0~~ 3.8	~~U~~ J
76-44-8	Heptachlor	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
8001-35-2	Toxaphene	210	U

LM 7/24/00

FORM I

STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-a4207.d
Lab Smp Id: DFQPW103 Client Smp ID: SL13-3.5
Inj Date : 14-JUL-2000 04:14
Operator : 01891 Inst ID: gc4.i
Smp Info : DFQPW103,4130-G.b,,all.sub,,,
Misc Info : 060146-4
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4A.m
Meth Date : 14-Jul-2000 10:10 matkol Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-a4199.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.40 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	GPC Correction factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.000	% Moisture

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
# 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.140	6.140	0.000	106595	0.03040	10.13	80.00- 120.00	100.00
2 Aroclor-1221					CAS #: 11104-28-2		

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
3 Aroclor-1232					CAS #: 11141-16-5		

Peaks not detected for Quant. or Qual. signal(s).

---

4 Aroclor-1016 CAS #: 12674-11-2

Peaks not detected for Quant. or Qual. signal(s).

---

5 alpha-BHC CAS #: 319-84-6

Compound Not Detected

---

6 Aroclor-1242 CAS #: 53469-21-9

Peaks not detected for Quant. or Qual. signal(s).

---

7 gamma-BHC(Lindane) CAS #: 58-89-9

Compound Not Detected

---

8 beta-BHC CAS #: 319-85-7

Compound Not Detected

---

9 Heptachlor CAS #: 76-44-8

Compound Not Detected

---

10 Aroclor-1248 CAS #: 12672-29-6

Peaks not detected for Quant. or Qual. signal(s).

---

11 delta-BHC CAS #: 319-86-8

Compound Not Detected

---

12 Aldrin CAS #: 309-00-2

12.353	12.352	0.001	20633	0.00794	2.648	80.00- 120.00	100.00

---

13 Heptachlor epoxide CAS #: 1024-57-3

Compound Not Detected

---

14 gamma-Chlordane CAS #: 5103-74-2

14.547	14.551	-0.004	25489	0.00806	2.687	80.00- 120.00	100.00

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
15 Aroclor-1254					CAS #: 11097-69-1		

Peaks not detected for Quant. or Qual. signal(s).

---

16 alpha-Chlordane					CAS #: 5103-71-9		

Compound Not Detected

---

17 Endosulfan I					CAS #: 959-98-8		

Compound Not Detected

---

19 4,4'-DDE					CAS #: 72-55-9		

Compound Not Detected

---

20 Dieldrin					CAS #: 60-57-1		
15.540	15.545	-0.005	36132	0.00977	3.258	80.00- 120.00	100.00(a)

---

21 Aroclor-1260					CAS #: 11096-82-5		

Peaks not detected for Quant. or Qual. signal(s).

---

22 Endrin					CAS #: 72-20-8		

Compound Not Detected

---

23 4,4'-DDD					CAS #: 72-54-8		
16.327	16.327	0.000	63726	0.02115	7.050	80.00- 120.00	100.00

---

18 Toxaphene					CAS #: 8001-35-2		

Peaks not detected for Quant. or Qual. signal(s).

---

24 Endosulfan II					CAS #: 33213-65-9		

Compound Not Detected

---

25 4,4'-DDT					CAS #: 50-29-3		

Compound Not Detected

---

26 Endrin aldehyde					CAS #: 7421-93-4		
17.153	17.132	0.021	12180	0.00571	1.905	80.00- 120.00	100.00(a)

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
27 Endosulfan sulfate					CAS #: 1031-07-8		
Compound Not Detected							
28 Methoxychlor					CAS #: 72-43-5		
Compound Not Detected							
29 Endrin ketone					CAS #: 53494-70-5		
Compound Not Detected							
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
23.587	23.587	0.000	68793	0.03927	13.09	80.00- 120.00	100.00

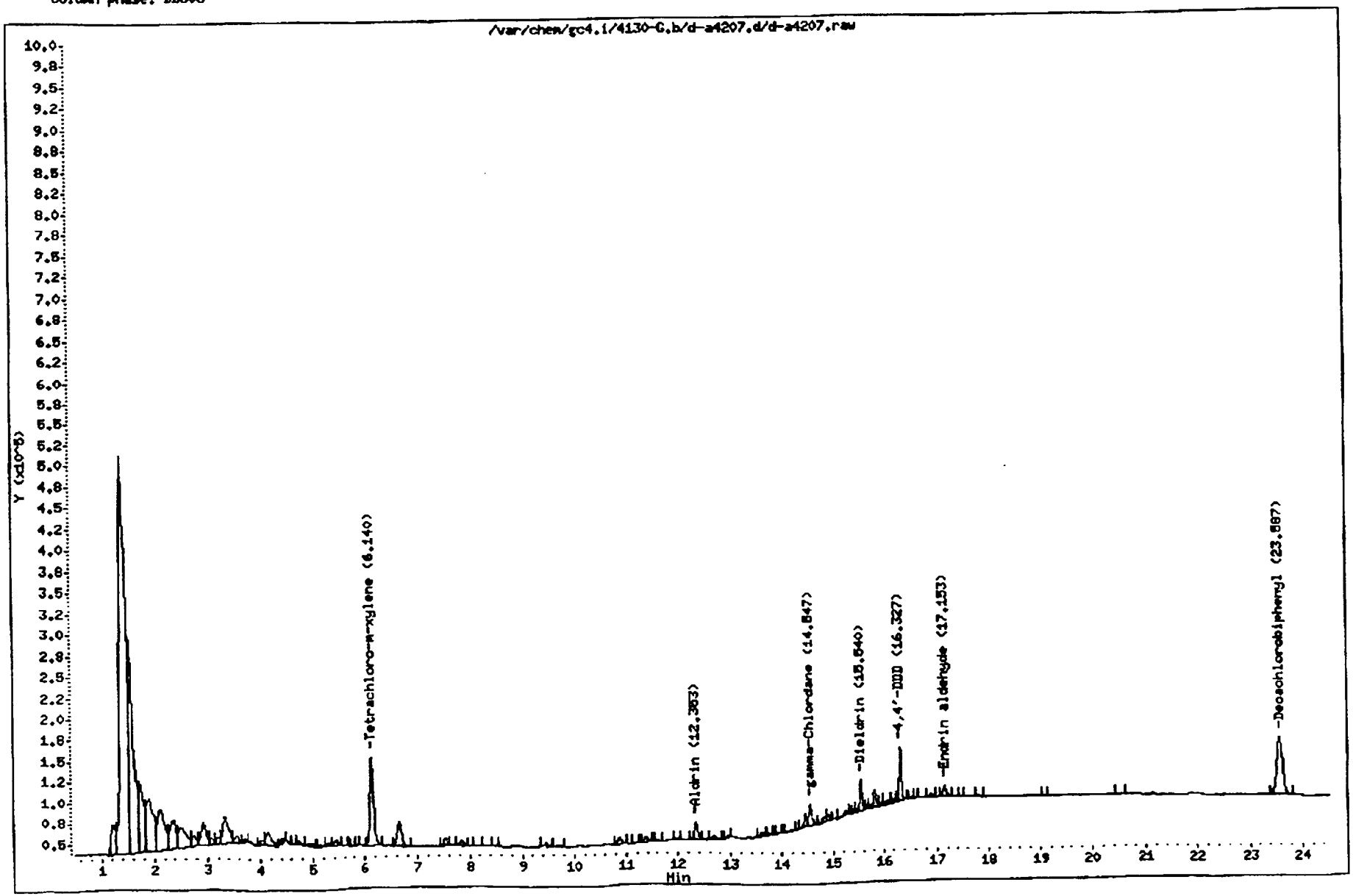
QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: /var/chem/gc4.i/4130-G.b/d-a4207.d
Date : 14-JUL-2000 04:14
Client ID: SL13-3.5
Sample Info: DFQPW103,4130-G.b,,all.sub,,,
Volume Injected (uL): 1.0
Column phase: DB608

Instrument: gc4.i

Operator: 01891
Column diameter: 0.53

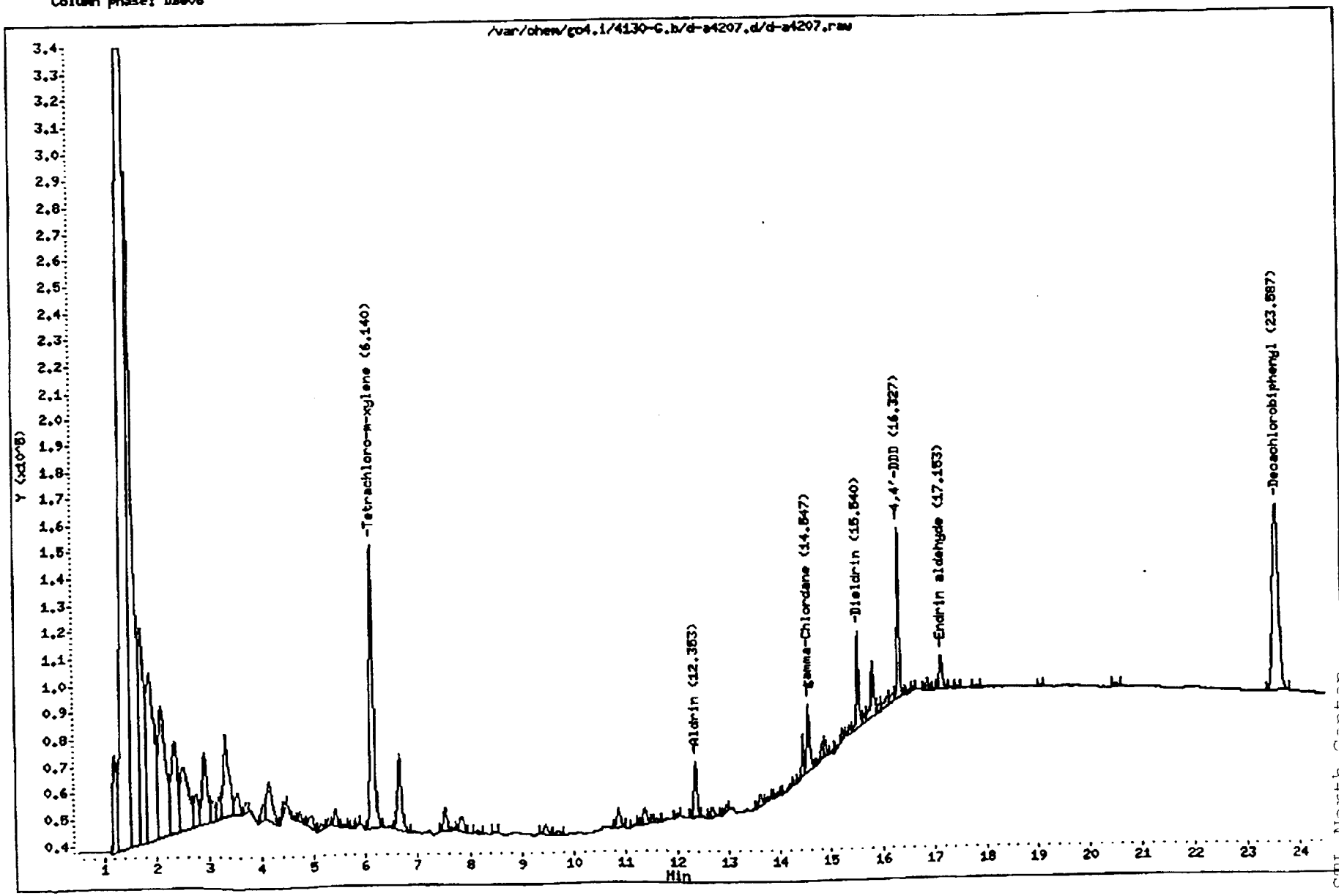


STL North Canton

Data File: /var/chem/go4.i/4130-G.b/d-a4207.d
Date : 14-JUL-2000 04:14
Client ID: SL13-3.5
Sample Info: DFQPM103,4130-G.b,,all.sub,,,
Volume Injected (uL): 1.0
Column phase: DB608

Instrument: go4.i

Operator: 01891
Column diameter: 0.53



STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-b4207.d
Lab Smp Id: DFQPW103 Client Smp ID: SL13-3.5
Inj Date : 14-JUL-2000 04:14
Operator : 01891 Inst ID: gc4.i
Smp Info : DFQPW103,4130-G.b,,all.sub,,,
Misc Info : 060146-4
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4B.m
Meth Date : 14-Jul-2000 10:49 matkol Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-b4199.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.40 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	GPC Correction factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.000	% Moisture

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.140	6.133	0.007	81644	0.03224	10.74	80.00- 120.00	100.00
2 Aroclor-1221					CAS #: 11104-28-2		

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
4 Aroclor-1232					CAS #: 11141-16-5		

Peaks not detected for Quant. or Qual. signal(s).

---

5 alpha-BHC CAS #: 319-84-6

Compound Not Detected

---

3 Aroclor-1016 CAS #: 12674-11-2

Peaks not detected for Quant. or Qual. signal(s).

---

8 Aroclor-1242 CAS #: 53469-21-9

Peaks not detected for Quant. or Qual. signal(s).

---

6 gamma-BHC(Lindane) CAS #: 58-89-9

Compound Not Detected

---

9 Aroclor-1248 CAS #: 12672-29-6

Peaks not detected for Quant. or Qual. signal(s).

---

7 Heptachlor CAS #: 76-44-8

Compound Not Detected

---

10 Aldrin CAS #: 309-00-2

12.280	12.280	0.000	87825	0.00699	2.329	80.00- 120.00	100.00

---

11 beta-BHC CAS #: 319-85-7

Compound Not Detected

---

12 delta-BHC CAS #: 319-86-8

Compound Not Detected

---

13 Heptachlor epoxide CAS #: 1024-57-3

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
14 Aroclor-1254					CAS #: 11097-69-1		
Peaks not detected for Quant. or Qual. signal(s).							
15 Endosulfan I					CAS #: 959-98-8		
Compound Not Detected							
16 gamma-Chlordane					CAS #: 5103-74-2		
14.973	14.972	0.001	23550	0.00700	2.334	80.00- 120.00	100.00
17 alpha-Chlordane					CAS #: 5103-71-9		
Compound Not Detected							
18 4,4'-DDE					CAS #: 72-55-9		
Compound Not Detected							
19 Dieldrin					CAS #: 60-57-1		
15.567	15.565	0.002	36003	0.00944	3.147	80.00- 120.00	100.00(a)
21 Aroclor-1260					CAS #: 11096-82-5		
Peaks not detected for Quant. or Qual. signal(s).							
22 Endrin					CAS #: 72-20-8		
Compound Not Detected							
30 Toxaphene					CAS #: 8001-35-2		
Peaks not detected for Quant. or Qual. signal(s).							
23 4,4'-DDD					CAS #: 72-54-8		
16.533	16.532	0.001	69871	0.02149	7.164	80.00- 120.00	100.00
24 Endosulfan II					CAS #: 33213-65-9		
Compound Not Detected							

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
25 4,4'-DDT					CAS #: 50-29-3		
Compound Not Detected							
26 Endrin aldehyde					CAS #: 7421-93-4		
Compound Not Detected							
28 Methoxychlor					CAS #: 72-43-5		
Compound Not Detected							
27 Endosulfan sulfate					CAS #: 1031-07-8		
Compound Not Detected							
29 Endrin ketone					CAS #: 53494-70-5		
Compound Not Detected							
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
21.733	21.735	-0.002	77728	0.03967	13.22	80.00- 120.00	100.00

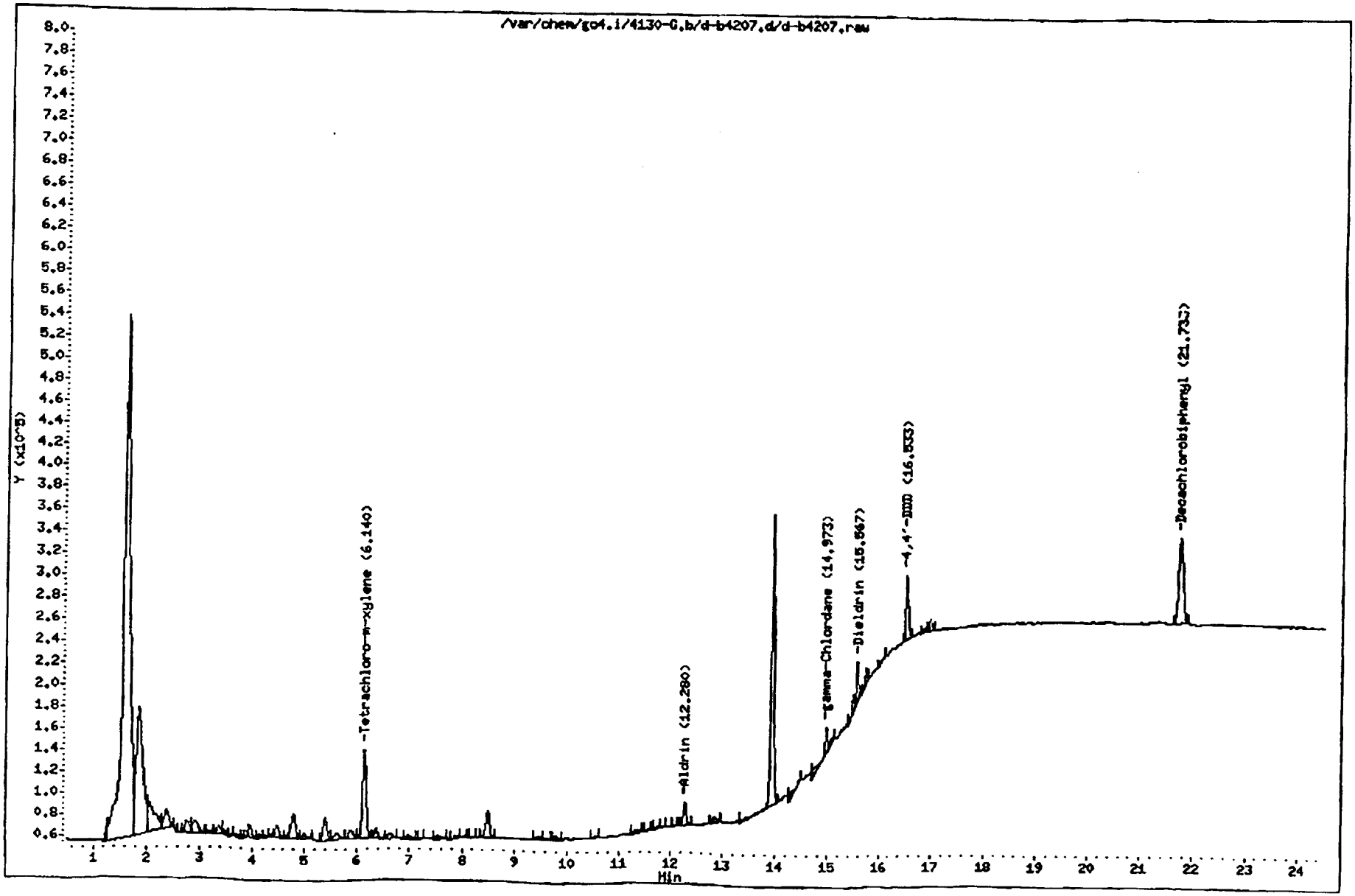
QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: /var/chem/go4.i/4130-G.b/d-b4207.d
Date : 14-JUL-2000 04:14
Client ID: SL13-3.5
Sample Info: DFQPH103,4130-G.b,,all.sub,,,
Volume Injected (uL): 1.0
Column phase: DB1701

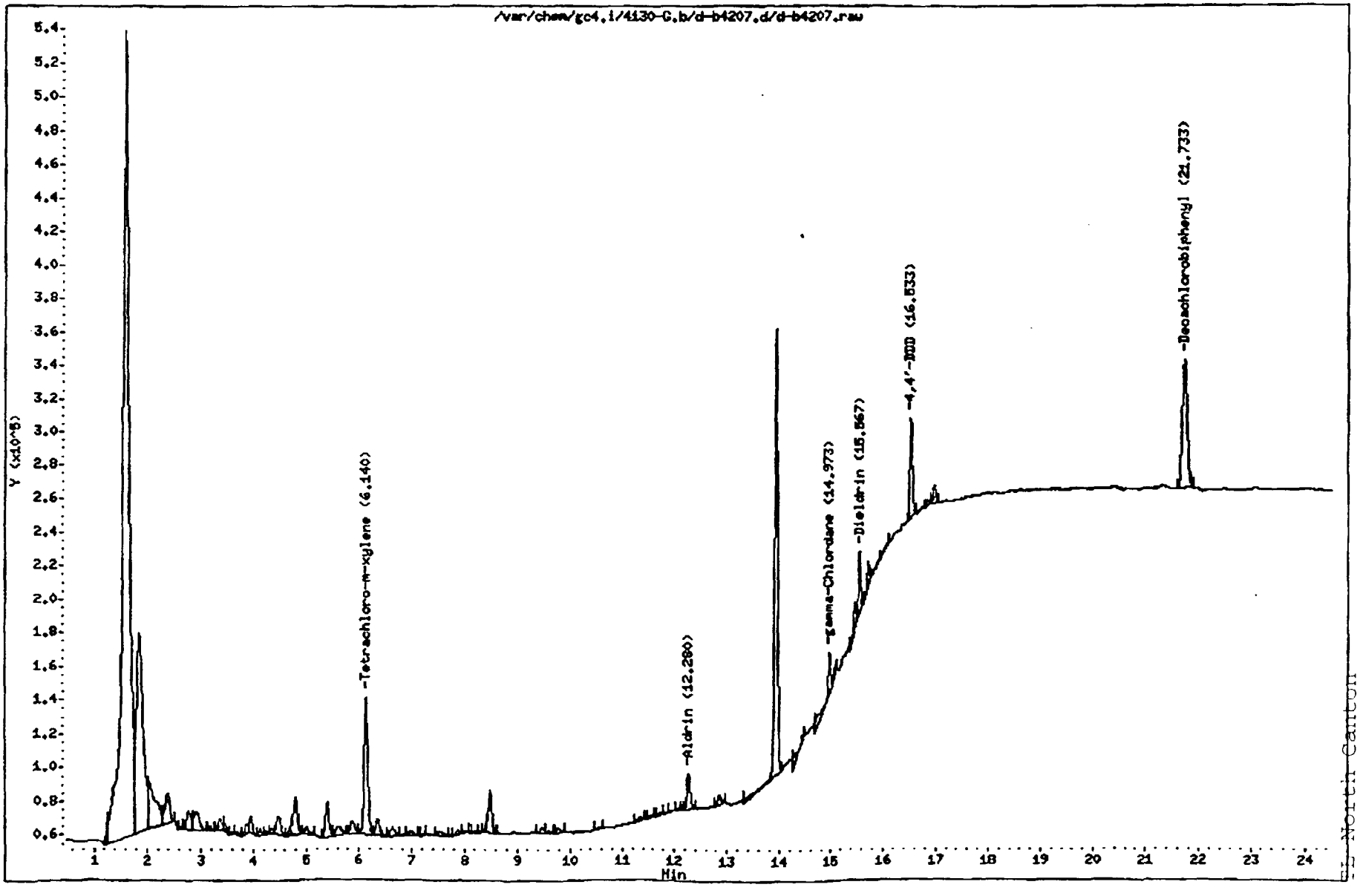
Instrument: go4.i

Operator: 01891
Column diameter: 0.53



Data File: /var/chem/gc4.i/4130-G.b/d-b4207.d
Date : 14-JUL-2000 04:14
Client ID: SL13-3.5
Sample Info: DFQPM103,4130-G.b,,all,sub,,,
Volume Injected (uL): 1.0
Column phase: DB1701

Instrument: gc4.i
Operator: 01891
Column diameter: 0.53



10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SL13-3.5

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: 40325 SDG No.: G06146

Lab Sample ID: DFQPW103 Date(s) Analyzed: 07/14/00 07/14/00

Instrument ID (1): GC4 Instrument ID (2): GC4

GC Column(1): DB608 ID: 0.53(mm) GC Column(2): DB1701 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
Aldrin	1	12.35	12.30	12.40	2.648	
	2	12.28	12.23	12.33	2.329	13.7
Dieldrin	1	15.54	15.47	15.61	3.258	
	2	15.57	15.50	15.64	3.147	3.5
~~4,4'-DDD~~	1	~~16.33~~	~~16.26~~	~~16.40~~	~~7.050~~	
LM 7/14/00	2	~~16.53~~	~~16.46~~	~~16.60~~	~~7.164~~	1.6
gamma-Chlordane	1	14.55	14.48	14.62	2.687	
	2	14.97	14.90	15.04	2.334	15.1
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1 OLM03.0

RMT

Lab Name:Severn Trent Laboratories, Inc. SDG Number:G06146

Matrix: (soil/water) SO
Method: OCLP OLM03.1
Pesticides/PCB (CLP-OLM03.1)

Lab Sample ID:A0G060146 005

Sample WT/Vol: 30 / g
Work Order: DFQQ0103
Dilution factor: 1
Moisture %:18

Date Received: 07/06/00
Date Extracted:07/11/00
Date Analyzed: 07/14/00

QC Batch: 0193481

Client Sample Id: SL14-3.0'

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	2.1	U
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	~~2.1~~ 1.2	P ~~U~~
60-57-1	Dieldrin	4.0	U
76-44-8	Heptachlor	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
8001-35-2	Toxaphene	210	U

cm 7/24/00

FORM I

STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-a4208.d
Lab Smp Id: DFQQ0103 Client Smp ID: SL14-3.0
Inj Date : 14-JUL-2000 04:41
Operator : 01891 Inst ID: gc4.i
Smp Info : DFQQ0103,4130-G.b,,all.sub,,,
Misc Info : 060146-5
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4A.m
Meth Date : 14-Jul-2000 10:10 matkol Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-a4199.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.40 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	GPC Correction factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.000	% Moisture

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.140	6.140	0.000	110768	0.03189	10.53	60.00- 120.00	100.00
2 Aroclor-1221					CAS #: 11104-28-2		

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

3 Aroclor-1232 CAS #: 11141-16-5

Peaks not detected for Quant. or Qual. signal(s).

---

4 Aroclor-1016 CAS #: 12674-11-2

Peaks not detected for Quant. or Qual. signal(s).

---

5 alpha-BHC CAS #: 319-84-6

Compound Not Detected

---

6 Aroclor-1242 CAS #: 53469-21-9

Peaks not detected for Quant. or Qual. signal(s).

---

7 gamma-BHC(Lindane) CAS #: 58-89-9

Compound Not Detected

---

8 beta-BHC CAS #: 319-85-7

Compound Not Detected

---

9 Heptachlor CAS #: 76-44-8

Compound Not Detected

---

10 Aroclor-1248 CAS #: 12672-29-6

Peaks not detected for Quant. or Qual. signal(s).

---

11 delta-BHC CAS #: 319-86-8

Compound Not Detected

---

12 Aldrin CAS #: 309-00-2

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
13 Heptachlor epoxide					CAS #: 1024-57-3		
Compound Not Detected							
14 gamma-Chlordane					CAS #: 5103-74-2		
14.527	14.551	-0.024	34682	0.01097	3.656	80.00- 120.00	100.00
15 Aroclor-1254					CAS #: 11097-69-1		
Operator disabled compound identification.							
16 alpha-Chlordane					CAS #: 5103-71-9		
Compound Not Detected							
17 Endosulfan I					CAS #: 959-98-8		
Compound Not Detected							
19 4,4'-DDE					CAS #: 72-55-9		
Compound Not Detected							
20 Dieldrin					CAS #: 60-57-1		
Compound Not Detected							
21 Aroclor-1260					CAS #: 11096-82-5		
Peaks not detected for Quant. or Qual. signal(s).							
22 Endrin					CAS #: 72-20-8		
Compound Not Detected							
23 4,4'-DDD					CAS #: 72-54-8		
Compound Not Detected							
18 Toxaphene					CAS #: 8001-35-2		
Qualifier signal(s) failed ratio test.							

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
24 Endosulfan II					CAS #: 33213-65-9		

Compound Not Detected

---

25 4,4'-DDT					CAS #: 50-29-3		

Compound Not Detected

---

26 Endrin aldehyde					CAS #: 7421-93-4		

Compound Not Detected

---

27 Endosulfan sulfate					CAS #: 1031-07-8		

Compound Not Detected

---

28 Methoxychlor					CAS #: 72-43-5		

Compound Not Detected

---

29 Endrin ketone					CAS #: 53494-70-5		

Compound Not Detected

$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
23.593	23.587	0.006	73004	0.04167	13.89	80.00- 120.00	100.00

Data File: /var/chem/go4.i/4130-G.b/d-a4208.d

Date : 14-JUL-2000 04:41

Client ID: SL14-3.0

Sample Info: DFQQ0103,4130-G.b,,all,sub,,,

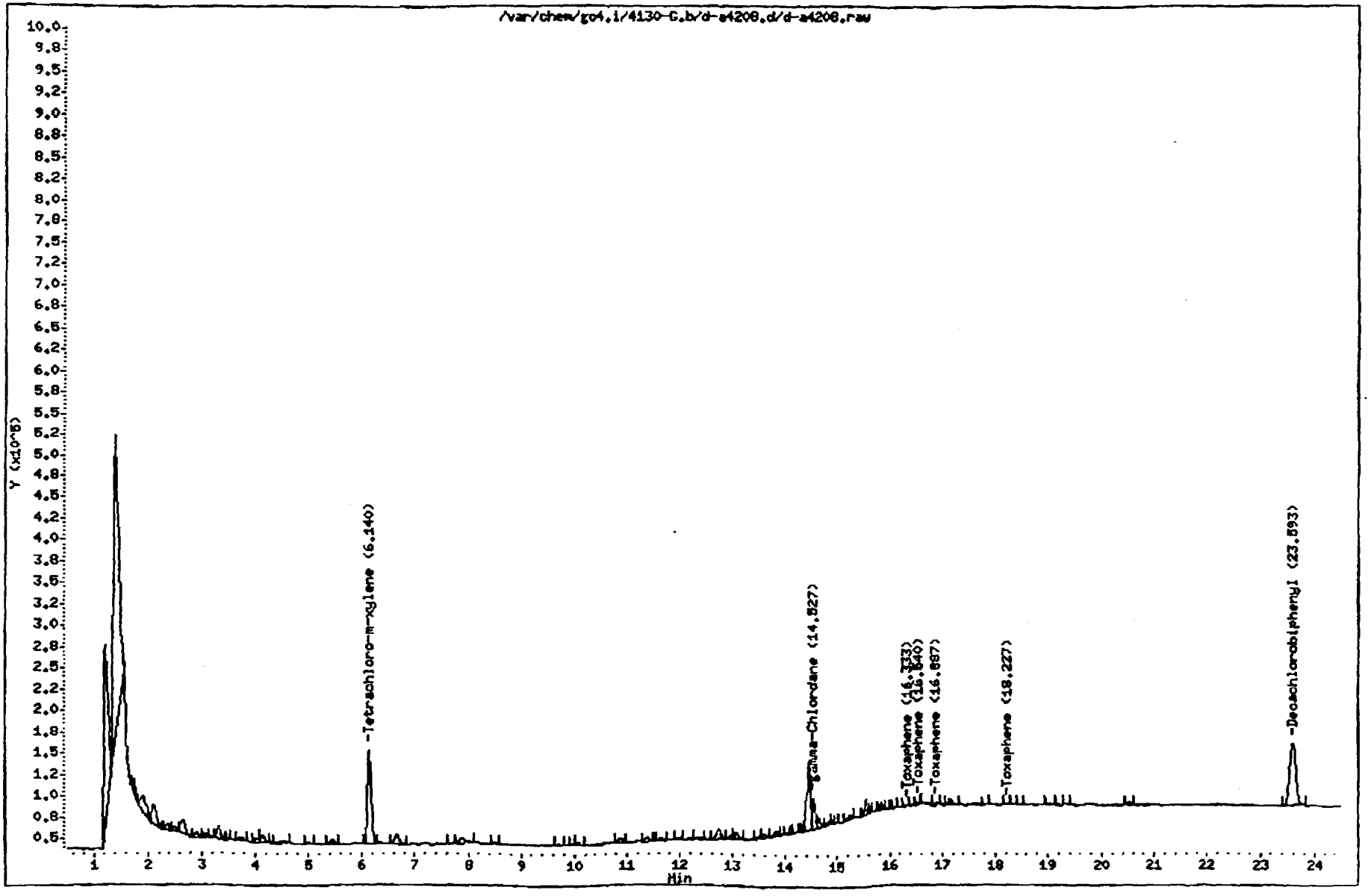
Volume Injected (uL): 1.0

Column phase: DB608

Instrument: go4.i

Operator: 01891

Column diameter: 0.53

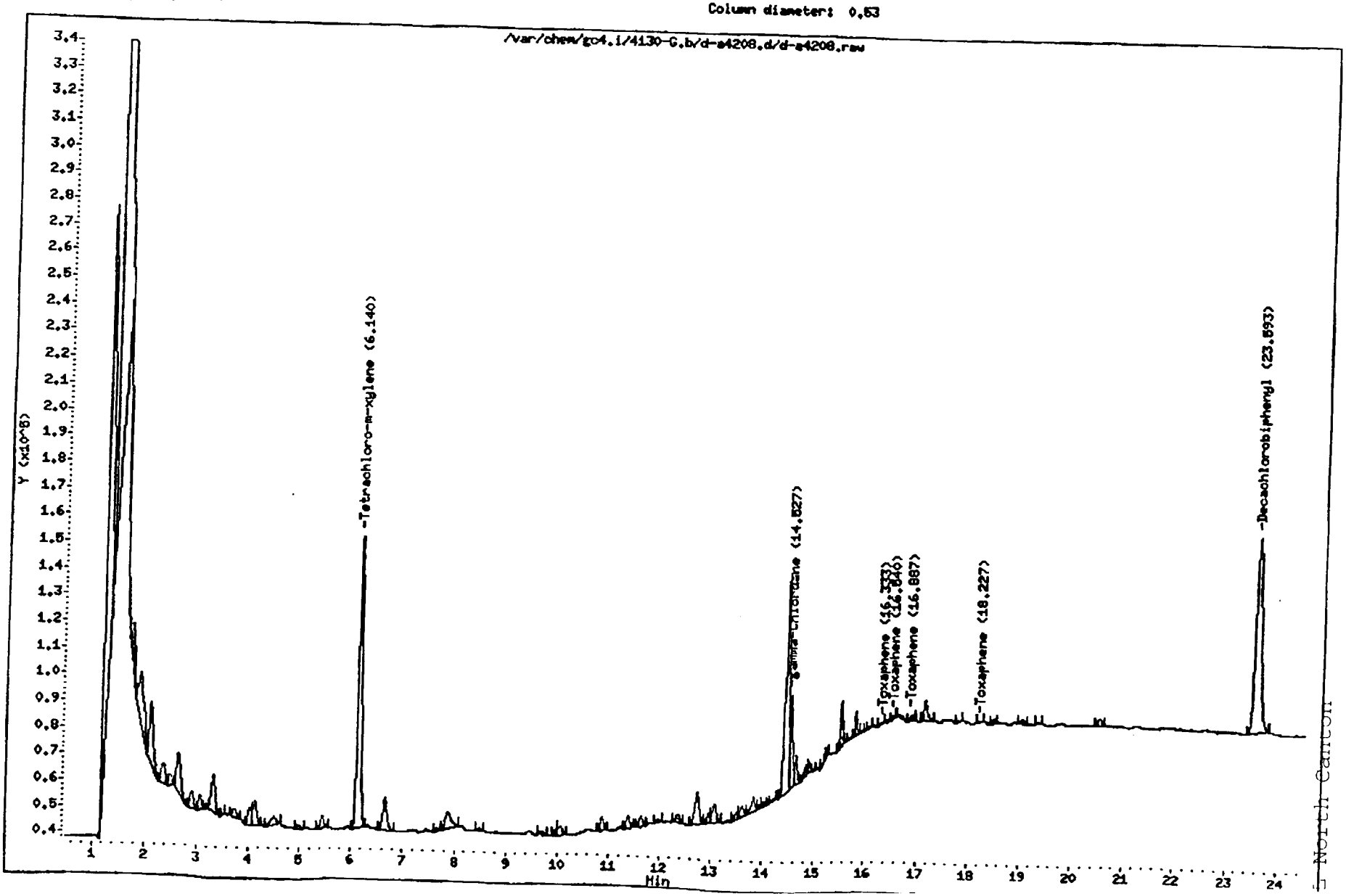


TL North Canton

Data File: /var/chem/gc4.i/4130-G.b/d-a4208.d
Date : 14-JUL-2000 04:41
Client ID: SL14-3.0
Sample Info: DFQQ0103,4130-G.b,,all,sub,,,
Volume Injected (uL): 1.0
Column phase: DB608

Instrument: gc4.i

Operator: 01891
Column diameter: 0.53



STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-b4208.d
Lab Smp Id: DFQQ0103 Client Smp ID: SL14-3.0
Inj Date : 14-JUL-2000 04:41
Operator : 01891 Inst ID: gc4.i
Smp Info : DFQQ0103,4130-G.b,,all.sub,,,
Misc Info : 060146-5
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4B.m
Meth Date : 14-Jul-2000 10:49 matkol Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-b4199.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.40 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	GPC Correction factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.000	% Moisture

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.140	6.133	0.007	82302	0.03250	10.83	80.00- 120.00	100.00
2 Aroclor-1221					CAS #: 11104-28-2		

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
4 Aroclor-1232					CAS #: 11141-16-5		

Peaks not detected for Quant. or Qual. signal(s).

---

5 alpha-BHC CAS #: 319-84-6

Compound Not Detected

---

3 Aroclor-1016 CAS #: 12674-11-2

Peaks not detected for Quant. or Qual. signal(s).

---

8 Aroclor-1242 CAS #: 53469-21-9

Peaks not detected for Quant. or Qual. signal(s).

---

6 gamma-BHC(Lindane) CAS #: 58-89-9

Compound Not Detected

---

9 Aroclor-1248 CAS #: 12672-29-6

Peaks not detected for Quant. or Qual. signal(s).

---

7 Heptachlor CAS #: 76-44-8

Compound Not Detected

---

10 Aldrin CAS #: 309-00-2

Compound Not Detected

---

11 beta-BHC CAS #: 319-85-7

Compound Not Detected

---

12 delta-BHC CAS #: 319-86-8

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
13 Heptachlor epoxide					CAS #: 1024-57-3		
Compound Not Detected							
14 Aroclor-1254					CAS #: 11097-69-1		
Peaks not detected for Quant. or Qual. signal(s).							
15 Endosulfan I					CAS #: 959-98-8		
Compound Not Detected							
16 gamma-Chlordane					CAS #: 5103-74-2		
14.973	14.972	0.001	10301	0.00306	1.021	80.00- 120.00	100.00(m)
17 alpha-Chlordane					CAS #: 5103-71-9		
15.073	15.080	-0.007	14819	0.00430	1.433	80.00- 120.00	100.00(m)
18 4,4'-DDE					CAS #: 72-55-9		
Compound Not Detected							
19 Dieldrin					CAS #: 60-57-1		
15.567	15.565	0.002	27610	0.00724	2.413	80.00- 120.00	100.00(m)
21 Aroclor-1260					CAS #: 11096-82-5		
Peaks not detected for Quant. or Qual. signal(s).							
22 Endrin					CAS #: 72-20-8		
Compound Not Detected							
20 Toxaphene					CAS #: 8001-35-2		
Peaks not detected for Quant. or Qual. signal(s).							
23 4,4'-DDD					CAS #: 72-54-8		
Compound Not Detected							

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
24 Endosulfan II					CAS #: 33213-65-9		
Compound Not Detected							
25 4,4'-DDT					CAS #: 50-29-3		
Compound Not Detected							
26 Endrin aldehyde					CAS #: 7421-93-4		
Compound Not Detected							
28 Methoxychlor					CAS #: 72-43-5		
Compound Not Detected							
27 Endosulfan sulfate					CAS #: 1031-07-8		
Compound Not Detected							
29 Endrin ketone					CAS #: 53494-70-5		
Compound Not Detected							
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
21.740	21.735	0.005	82536	0.04213	14.04	80.00- 120.00	100.00

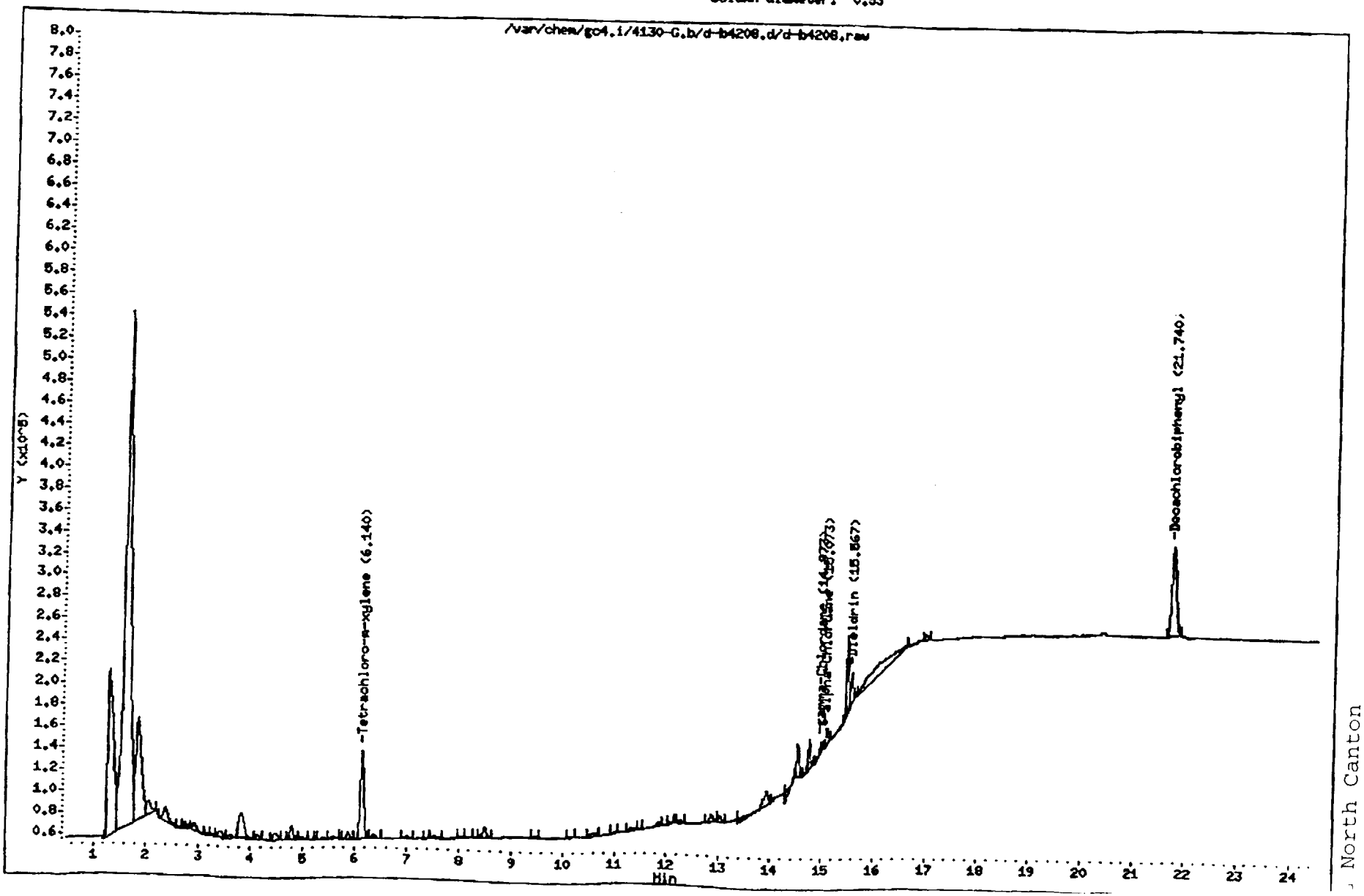
QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: /var/chem/gc4.i/4130-G.b/d-b4208.d
Date : 14-JUL-2000 04:41
Client ID: SL14-3.0
Sample Info: DFQQ0103,4130-G.b,,all.sub,,,
Volume Injected (uL): 1.0
Column phase: DB1701

Instrument: gc4.i

Operator: 01891
Column diameter: 0.53

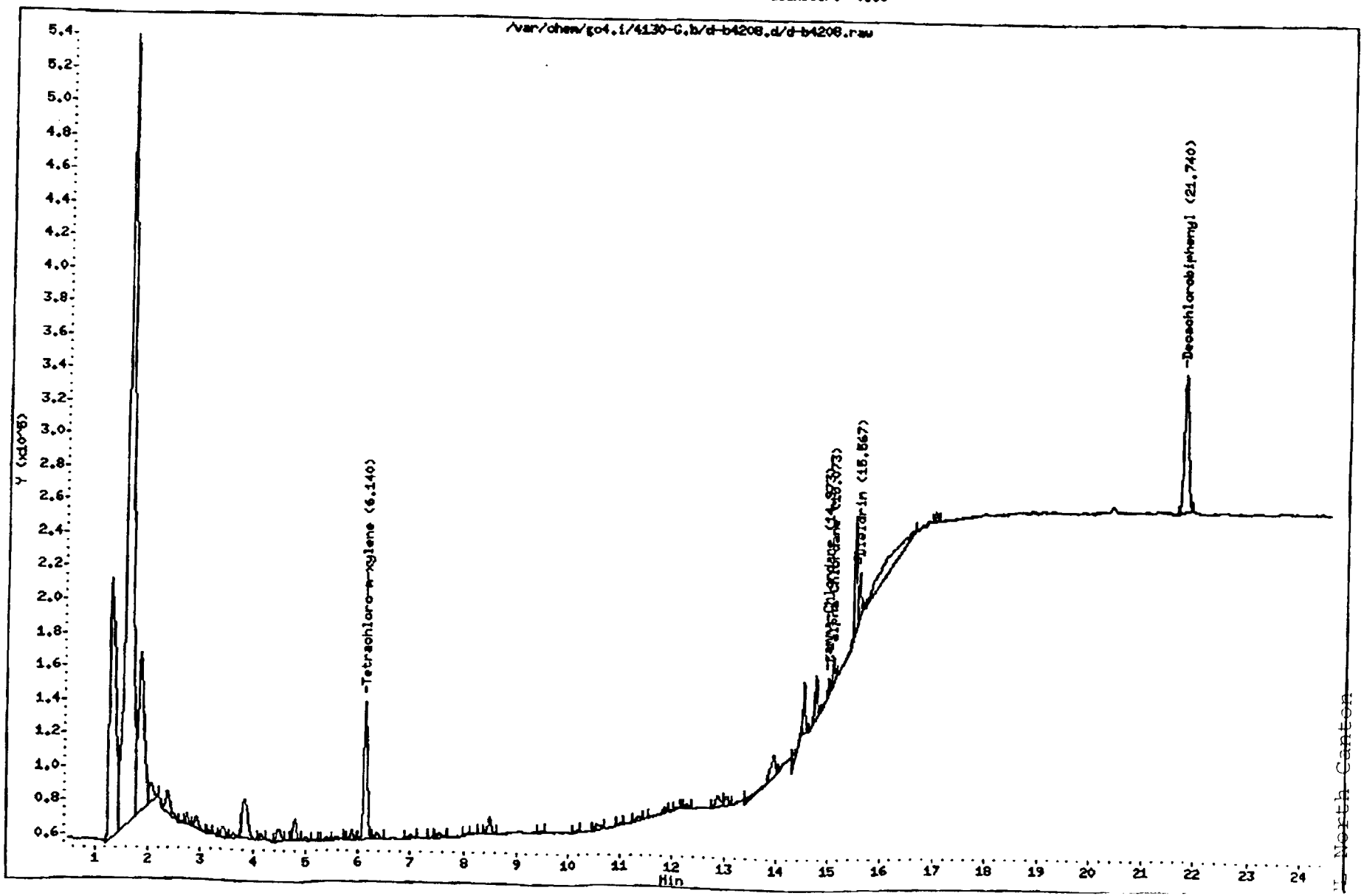


North Canton

Data File: /var/chem/go4.i/4130-G.b/d-b4208.d
Date : 14-JUL-2000 04:41
Client ID: SL14-3.0
Sample Info: DFQQ0103,4130-G.b,,all.sub,,,
Volume Injected (uL): 1.0
Column phase: DB1701

Instrument: go4.i

Operator: 01891
Column diameter: 0.53



10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SL14-3.0

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: 40325 SDG No.: G06146

Lab Sample ID: DFQQ0103 Date(s) Analyzed: 07/14/00 07/14/00

Instrument ID (1): GC4 Instrument ID (2): GC4

GC Column(1): DB608 ID: 0.53(mm) GC Column(2): DB1701 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-Chlordane	1	14.53	14.48	14.62	3.656	
	2	14.97	14.90	15.04	1.021	258.1
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1 OLM03.0

L North Canton

RMT

Lab Name:Severn Trent Laboratories, Inc. SDG Number:G06146

Matrix: (soil/water) SO Lab Sample ID:A0G060146 006
Method: OCLP OLM03.1
Pesticides/PCB (CLP-OLM03.1)

Sample WT/Vol: 30 / g Date Received: 07/06/00
Work Order: DFQQ3103 Date Extracted:07/11/00
Dilution factor: 5 Date Analyzed: 07/14/00
Moisture %:15

QC Batch: 0193481

Client Sample Id: SL15-3.0'

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	48	
5103-71-9	alpha-Chlordane	10	U
5103-74-2	gamma-Chlordane	10	U
60-57-1	Dieldrin	19	U
76-44-8	Heptachlor	10	U
1024-57-3	Heptachlor epoxide	10	U
8001-35-2	Toxaphene	1000	U

FORM I

STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-a4209.d
Lab Smp Id: DFQQ3103 Client Smp ID: SL15-3.0
Inj Date : 14-JUL-2000 05:09
Operator : 01891 Inst ID: gc4.i
Smp Info : DFQQ3103,4130-G.b,,all.sub,5,,
Misc Info : 060146-6
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4A.m
Meth Date : 14-Jul-2000 10:10 matkol Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-a4199.d
Als bottle: 1
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.40 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	5.000	Dilution Factor
Uf	2.000	GPC Correction factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.000	% Moisture

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.140	6.140	0.000	25199	0.00719	11.98	80.00- 120.00	100.00
2 Aroclor-1221					CAS #: 11104-28-2		

eaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
3 Aroclor-1232					CAS #: 11141-16-5		

Peaks not detected for Quant. or Qual. signal(s).

---

4 Aroclor-1016 CAS #: 12674-11-2

Peaks not detected for Quant. or Qual. signal(s).

---

5 alpha-BHC CAS #: 319-84-6

Compound Not Detected

---

6 Aroclor-1242 CAS #: 53469-21-9

Peaks not detected for Quant. or Qual. signal(s).

---

7 gamma-BHC(Lindane) CAS #: 58-89-9

Compound Not Detected

---

8 beta-BHC CAS #: 319-85-7

Compound Not Detected

---

9 Heptachlor CAS #: 76-44-8

Compound Not Detected

---

10 Aroclor-1248 CAS #: 12672-29-6

Peaks not detected for Quant. or Qual. signal(s).

---

11 delta-BHC CAS #: 319-86-8

Compound Not Detected

---

12 Aldrin CAS #: 309-00-2

12.353	12.352	0.001	63894	0.02460	41.00	80.00- 120.00	100.00

---

13 Heptachlor epoxide CAS #: 1024-57-3

Compound Not Detected

---

14 gamma-Chlordane CAS #: 5103-74-2

14.527	14.551	-0.024	27081	0.00657	14.28	80.00- 120.00	100.00

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
15 Aroclor-1254					CAS #: 11097-69-1		

Peaks not detected for Quant. or Qual. signal(s).

---

16 alpha-Chlordane					CAS #: 5103-71-9		

Compound Not Detected

---

17 Endosulfan I					CAS #: 959-98-8		
14.973	14.960	0.013	9314	0.00291	4.843	80.00- 120.00	100.00(a)

---

19 4,4'-DDE					CAS #: 72-55-9		

Compound Not Detected

---

20 Dieldrin					CAS #: 60-57-1		

Compound Not Detected

---

21 Aroclor-1260					CAS #: 11096-82-5		

Peaks not detected for Quant. or Qual. signal(s).

---

22 Endrin					CAS #: 72-20-8		

Compound Not Detected

---

23 4,4'-DDD					CAS #: 72-54-8		

Compound Not Detected

---

18 Toxaphene					CAS #: 8001-28-2		

Peaks not detected for Quant. or Qual. signal(s).

---

24 Endosulfan II					CAS #: 33213-65-9		

Compound Not Detected

---

25 4,4'-DDT					CAS #: 50-29-3		

Compound Not Detected

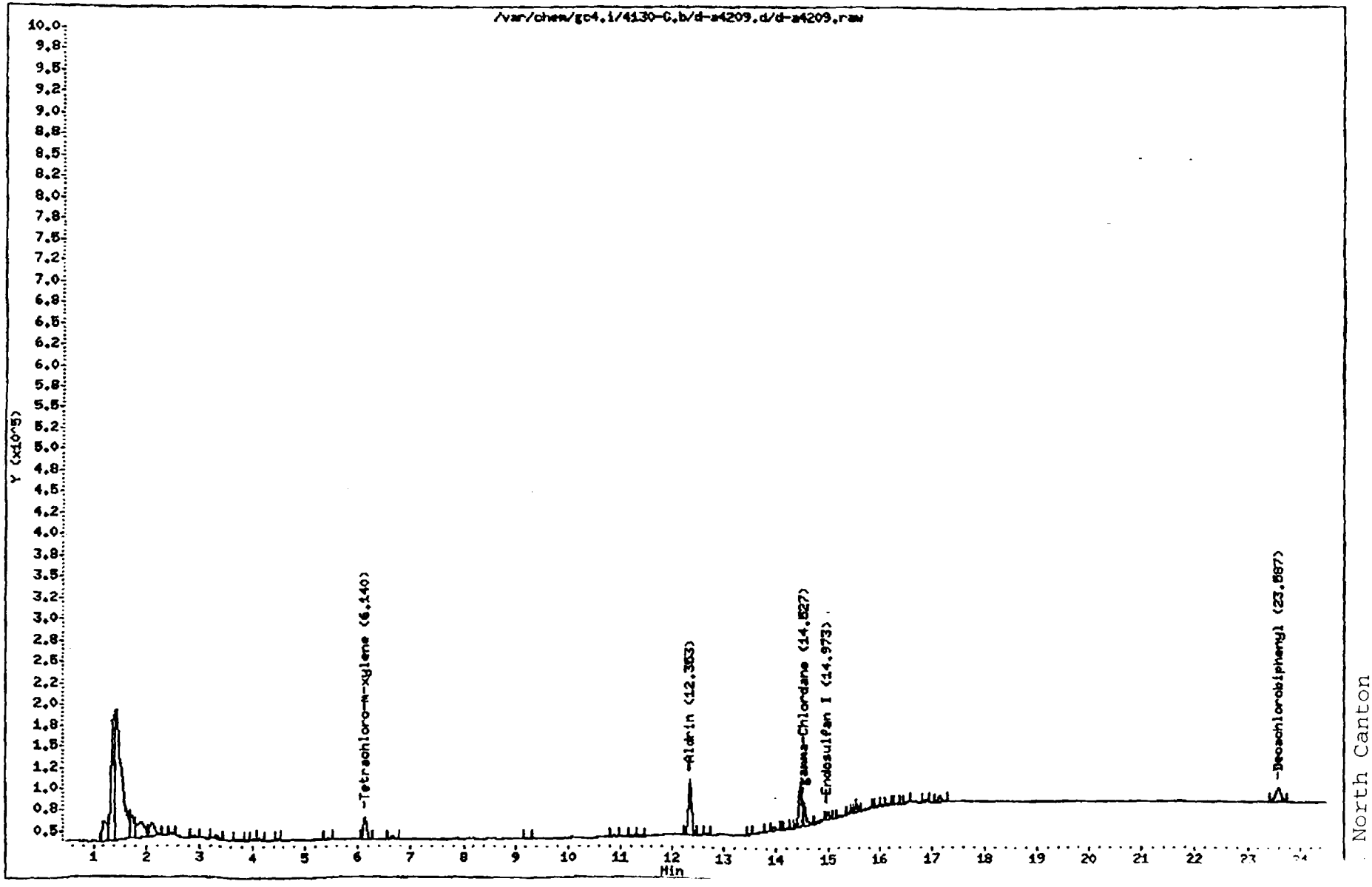
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
26 Endrin aldehyde					CAS #: 7421-93-4		
Compound Not Detected							
27 Endosulfan sulfate					CAS #: 1031-07-8		
Compound Not Detected							
28 Methoxychlor					CAS #: 72-43-5		
Compound Not Detected							
29 Endrin ketone					CAS #: 53494-70-5		
Compound Not Detected							
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
23.587	23.587	0.000	15394	0.00879	14.64	80.00- 120.00	100.00

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: /var/chem/gc4.i/4130-C.b/d-a4209.d
Date : 14-JUL-2000 05:09
Client ID: SL15-3.0
Sample Info: DFQQ3103,4130-C.b,,all.sub,5,,
Volume Injected (uL): 1.0
Column phase: DB608

Instrument: gc4.i
Operator: 01891
Column diameter: 0.53



North Canton

Data File: /var/chem/gc4.i/4130-G.b/d-a4209.d

Date : 14-JUL-2000 05:09

Client ID: SL15-3.0

Sample Info: DFQQ3103,4130-G.b,,all,sub,5,,

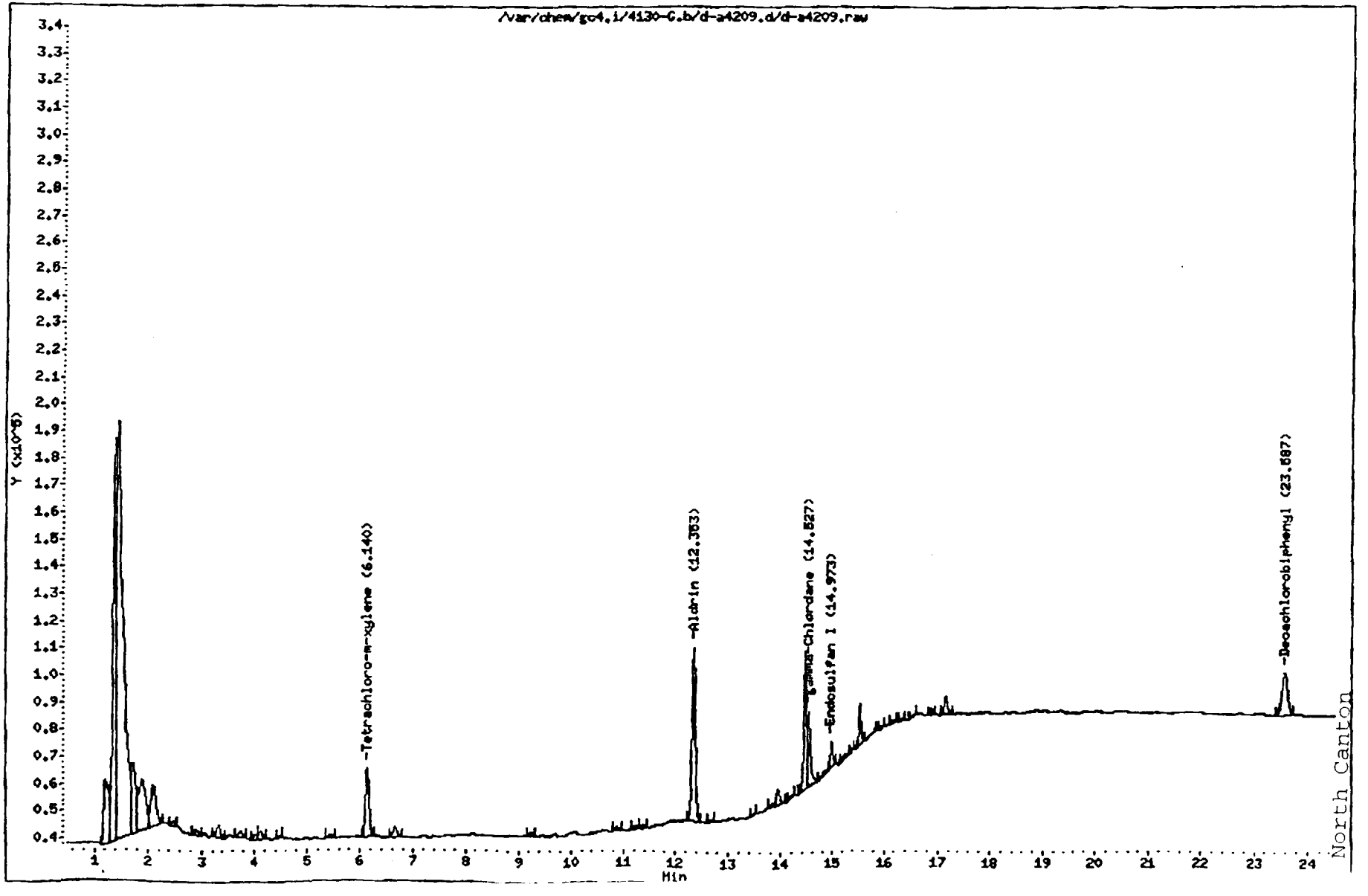
Volume Injected (uL): 1.0

Column phase: DB608

Instrument: gc4.i

Operator: 01891

Column diameter: 0.53



North Canton

STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-b4209.d
Lab Smp Id: DFQQ3103 Client Smp ID: SL15-3.0
Inj Date : 14-JUL-2000 05:09
Operator : 01891 Inst ID: gc4.i
Smp Info : DFQQ3103,4130-G.b,,all.sub,5,,
Misc Info : 060146-6
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4B.m
Meth Date : 14-Jul-2000 10:49 matkol Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-b4199.d
Als bottle: 1
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.40 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	5.000	Dilution Factor
Uf	2.000	GPC Correction factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.000	% Moisture

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.140	6.133	0.007	17713	0.00699	11.66	80.00- 120.00	100.00
2 Aroclor-1221					CAS #: 11104-28-2		

aks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

4 Aroclor-1232 CAS #: 11141-16-5

Peaks not detected for Quant. or Qual. signal(s).

---

5 alpha-BHC CAS #: 319-84-6

Compound Not Detected

---

3 Aroclor-1016 CAS #: 12674-11-2

Peaks not detected for Quant. or Qual. signal(s).

---

8 Aroclor-1242 CAS #: 53469-21-9

Peaks not detected for Quant. or Qual. signal(s).

---

6 gamma-BHC(Lindane) CAS #: 58-89-9

Compound Not Detected

---

9 Aroclor-1248 CAS #: 12672-29-6

Peaks not detected for Quant. or Qual. signal(s).

---

7 Heptachlor CAS #: 76-44-8

Compound Not Detected

---

10 Aldrin CAS #: 309-00-2

12.287	12.280	0.007	321402	0.02557	42.61	80.00- 120.00	100.00

---

11 beta-BHC CAS #: 319-85-7

Compound Not Detected

---

12 delta-BHC CAS #: 319-86-8

Compound Not Detected

---

13 Heptachlor epoxide CAS #: 1024-57-3

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
14 Aroclor-1254						CAS #: 11097-69-1	

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
15 Endosulfan I						CAS #: 959-98-8	

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
16 gamma-Chlordane						CAS #: 5103-74-2	

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
17 alpha-Chlordane						CAS #: 5103-71-9	

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
18 4,4'-DDE						CAS #: 72-55-9	

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
19 Dieldrin						CAS #: 60-57-1	
15.867	15.865	0.002	19554	0.00513	8.546	80.00- 120.00	100.00(a)

RT	EXP RT	DLT RT	RESPONSE	ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
21 Aroclor-1260						CAS #: 11096-82-5	

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
22 Endrin						CAS #: 72-20-8	

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
20 Toxaphene						CAS #: 8001-35-2	

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
23 4,4'-DDD						CAS #: 72-54-8	

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
24 Endosulfan II						CAS #: 33213-65-9	

Compound Not Detected

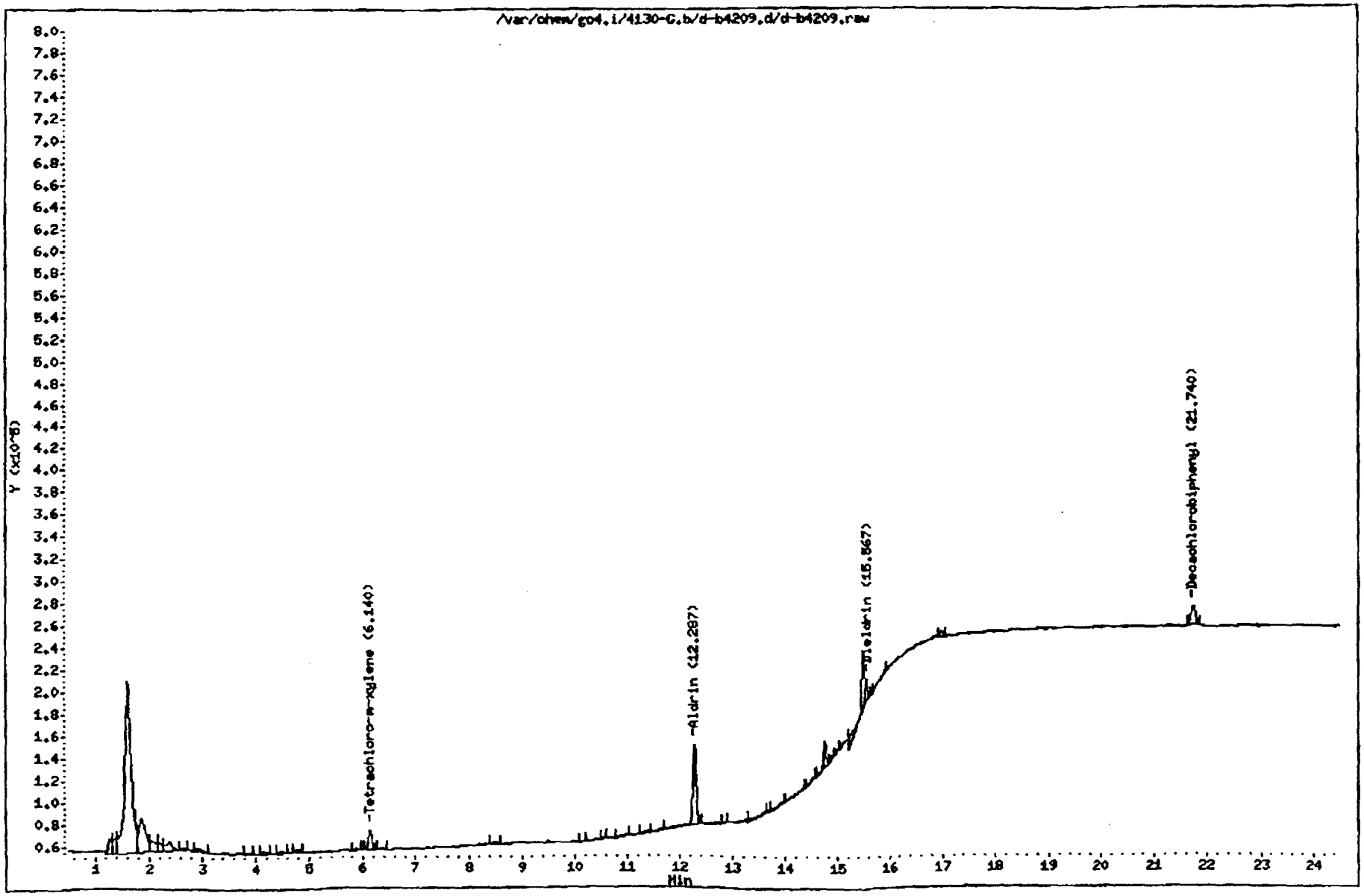
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
25 4,4'-DDT					CAS #: 50-29-3		
Compound Not Detected							
26 Endrin aldehyde					CAS #: 7421-93-4		
Compound Not Detected							
28 Methoxychlor					CAS #: 72-43-5		
Compound Not Detected							
27 Endosulfan sulfate					CAS #: 1031-07-8		
Compound Not Detected							
29 Endrin ketone					CAS #: 53494-70-5		
Compound Not Detected							
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
21.740	21.735	0.005	16732	0.00654	14.23	80.00- 120.00	100.00

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: /var/chem/gc4.i/4130-G.b/d-b4209.d
Date : 14-JUL-2000 06:09
Client ID: SL15-3.0
Sample Info: DFQQ3103,4130-G.b,,all.sub,5,,
Volume Injected (uL): 1.0
Column phase: DB1701

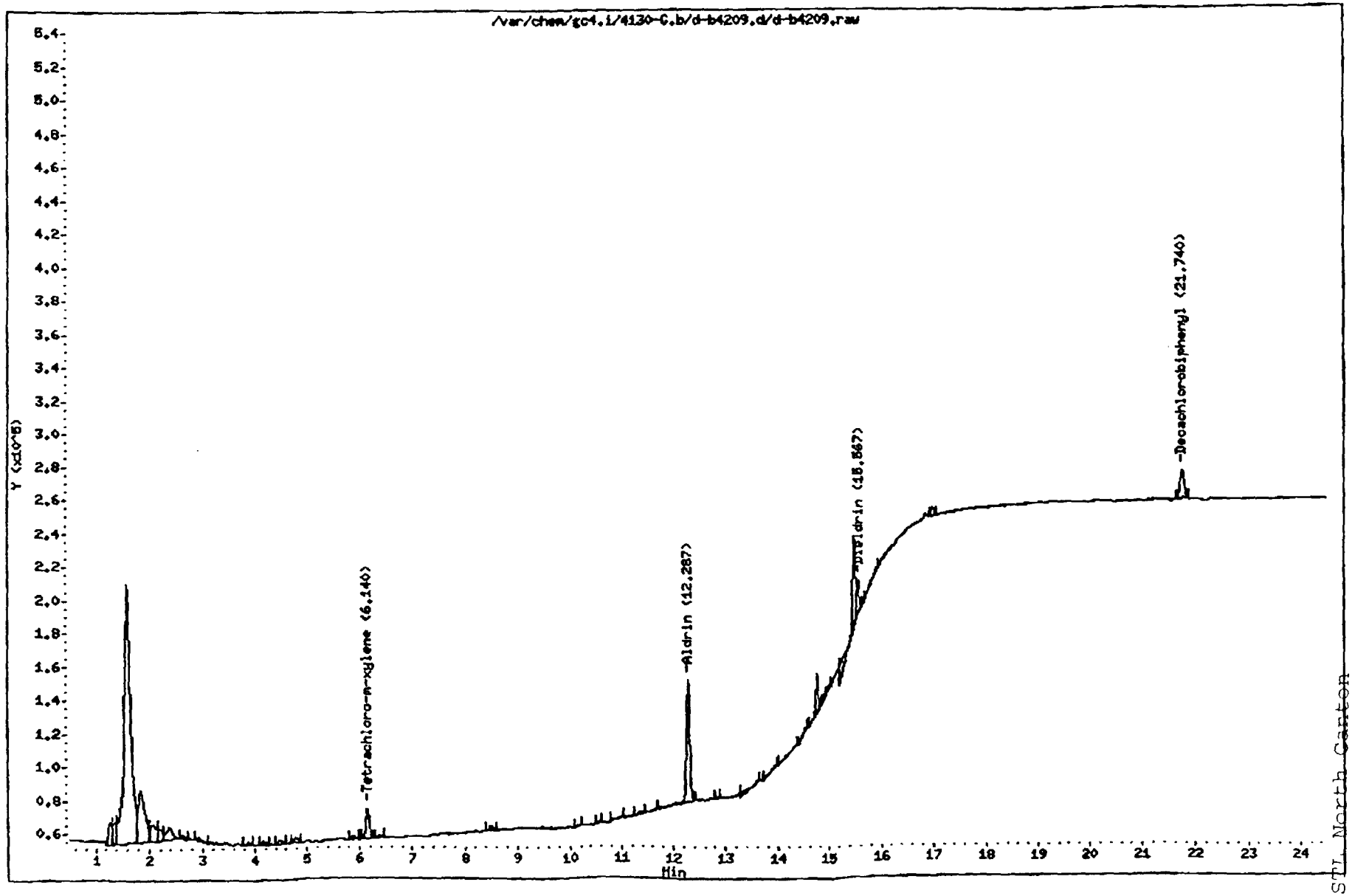
Instrument: gc4.i
Operator: 01891
Column diameter: 0.53



Data File: /var/chem/gc4.i/4130-G.b/d-b4209.d
Date : 14-JUL-2000 05:09
Client ID: SL15-3.0
Sample Info: DFQQ3103,4130-G.b,,all,sub,5,,
Volume Injected (uL): 1.0
Column phase: DB1701

Instrument: gc4.i

Operator: 01891
Column diameter: 0.53



10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SL15-3.0

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: 40325 SDG No.: G06146

Lab Sample ID: DFQQ3103 Date(s) Analyzed: 07/14/00 07/14/00

Instrument ID (1): GC4 Instrument ID (2): GC4

GC Column(1): DB608 ID: 0.53(mm) GC Column(2): DB1701 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
Aldrin	1	12.35	12.30	12.40	41.00	
	2	12.29	12.23	12.33	42.61	3.9
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1 OLM03.0

RMT

Lab Name:Severn Trent Laboratories, Inc. SDG Number:G06146

Matrix: (soil/water) SO Lab Sample ID:A0G060146 007
Method: OCLP OLM03.1
Pesticides/PCB (CLP-OLM03.1)

Sample WT/Vol: 30 / g Date Received: 07/06/00
Work Order: DFQQ4103 Date Extracted:07/11/00
Dilution factor: 50 Date Analyzed: 07/14/00
Moisture %:19

QC Batch: 0193481

Client Sample Id: SL16-1.0'

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	~~110~~ 61	P ~~U~~ J
5103-71-9	alpha-Chlordane	890	P
5103-74-2	gamma-Chlordane	220	P
60-57-1	Dieldrin	1300	P
76-44-8	Heptachlor	110	U
1024-57-3	Heptachlor epoxide	110	U
8001-35-2	Toxaphene	11000	U

LM 7/24/00

FORM I

STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-a4210.d
Lab Smp Id: DFQQ4103 Client Smp ID: SL16-1.0
Inj Date : 14-JUL-2000 05:37
Operator : 01891 Inst ID: gc4.i
Smp Info : DFQQ4103,4130-G.b,,all.sub,50,,
Misc Info : 060146-7
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4A.m
Meth Date : 14-Jul-2000 10:10 matkol Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-a4199.d
Als bottle: 1
Dil Factor: 50.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.40 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	50.000	Dilution Factor
Uf	2.000	GPC Correction factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.000	% Moisture

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.140	6.140	0.000	2456	0.00070	11.67	80.00- 120.00	100.00
2 Aroclor-1221					CAS #: 11104-28-2		

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

3 Aroclor-1232 CAS #: 11141-16-5

Peaks not detected for Quant. or Qual. signal(s).

---

4 Aroclor-1016 CAS #: 12674-11-2

Peaks not detected for Quant. or Qual. signal(s).

---

5 alpha-BHC CAS #: 319-84-6

Compound Not Detected

---

6 Aroclor-1242 CAS #: 53469-21-9

Peaks not detected for Quant. or Qual. signal(s).

---

7 gamma-BHC(Lindane) CAS #: 58-89-9

Compound Not Detected

---

8 beta-BHC CAS #: 319-85-7

Compound Not Detected

---

9 Heptachlor CAS #: 76-44-8

Compound Not Detected

---

10 Aroclor-1248 CAS #: 12672-29-6

Operator disabled compound identification.

---

11 delta-BHC CAS #: 319-86-8

Compound Not Detected

---

12 Aldrin CAS #: 309-00-2

12.360	12.352	0.008	7684	0.00296	49.31	80.00- 120.00	100.00(a)

---

13 Heptachlor epoxide CAS #: 1024-57-3

14.167	14.160	0.007	19091	0.00629	104.8	80.00- 120.00	100.00

---

14 gamma-Chlordane CAS #: 5103-74-2

14.540	14.551	-0.011	324248	0.10255	1709	80.00- 120.00	100.00(A)

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
15 Aroclor-1254					CAS #: 11097-69-1		
Peaks not detected for Quant. or Qual. signal(s).							
16 alpha-Chlordane					CAS #: 5103-71-9		
14.900	14.900	0.000	264354	0.07920	1320	80.00- 120.00	100.00
17 Endosulfan I					CAS #: 959-98-8		
14.960	14.960	0.020	206806	0.06452	1075	80.00- 120.00	100.00
19 4,4'-DDE					CAS #: 72-55-9		
15.332	15.380	-0.047	922022	0.24966	4161	80.00- 120.00	100.00(A)
20 Dieldrin					CAS #: 60-57-1		
15.553	15.545	0.008	238245	0.06447	1074	80.00- 120.00	100.00
21 Aroclor-1260					CAS #: 11096-82-5		
Peaks not detected for Quant. or Qual. signal(s).							
22 Endrin					CAS #: 72-20-8		
Compound Not Detected							
23 4,4'-DDD					CAS #: 72-54-8		
Compound Not Detected							
18 Toxaphene					CAS #: 8001-35-2		
Peaks not detected for Quant. or Qual. signal(s).							
24 Endosulfan II					CAS #: 33213-65-9		
Compound Not Detected							
25 4,4'-DDT					CAS #: 50-29-3		
Compound Not Detected							

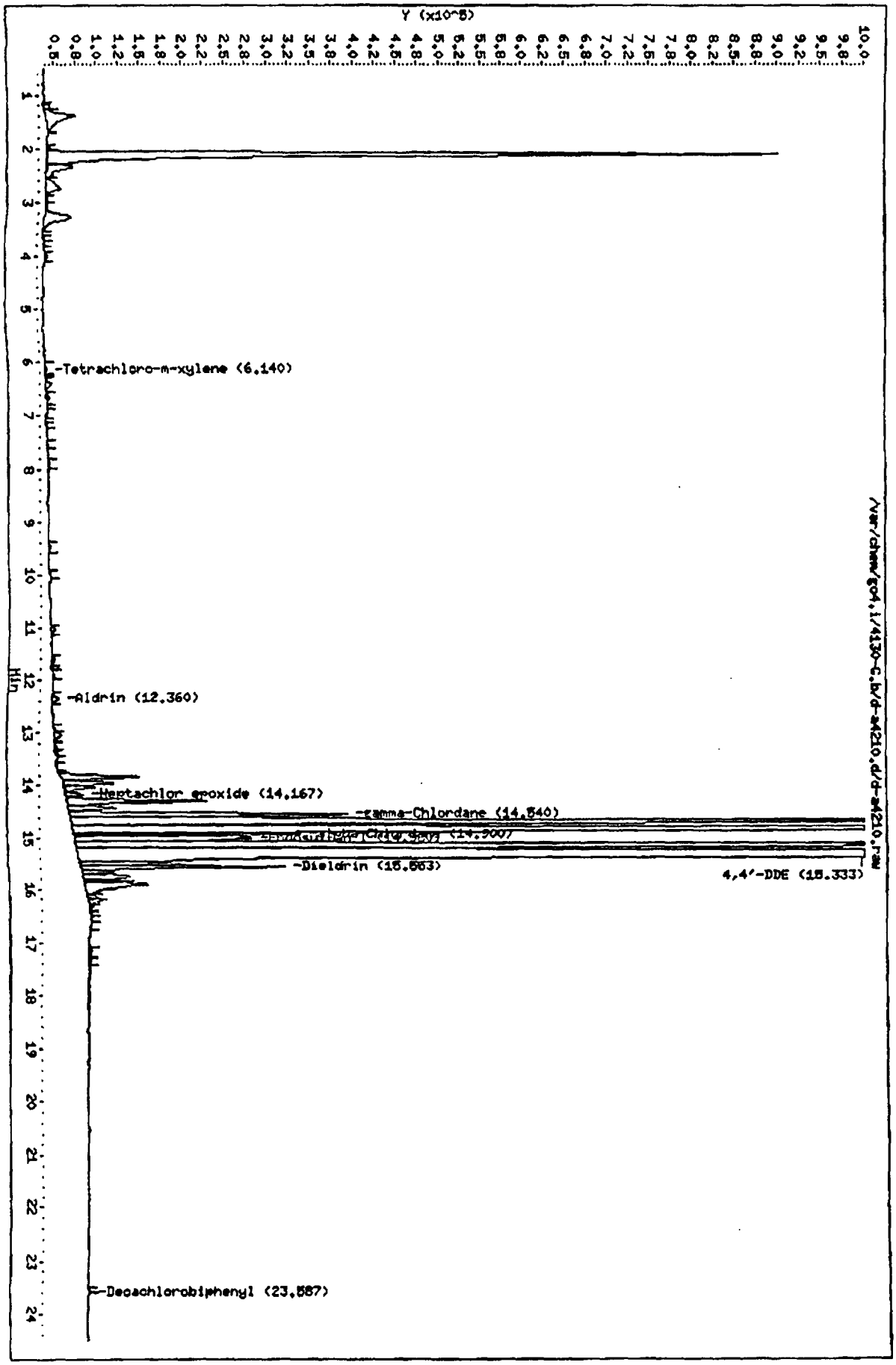
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
26 Endrin aldehyde					CAS #: 7421-93-4		
Compound Not Detected							
27 Endosulfan sulfate					CAS #: 1031-07-8		
Compound Not Detected							
28 Methoxychlor					CAS #: 72-43-5		
Compound Not Detected							
29 Endrin ketone					CAS #: 53494-70-5		
Compound Not Detected							
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
23.587	23.587	0.000	328	0.000187	3.120	80.00- 120.00	100.00(R)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gc4.i/4130-C.b/d-a4210.d
Date : 14-JUL-2000 06:37
Client ID: SL16-1.0
Sample Info: DF004103,4130-C.b,,all.sub,50,,
Volume Injected (uL): 1.0
Column phase: DB608

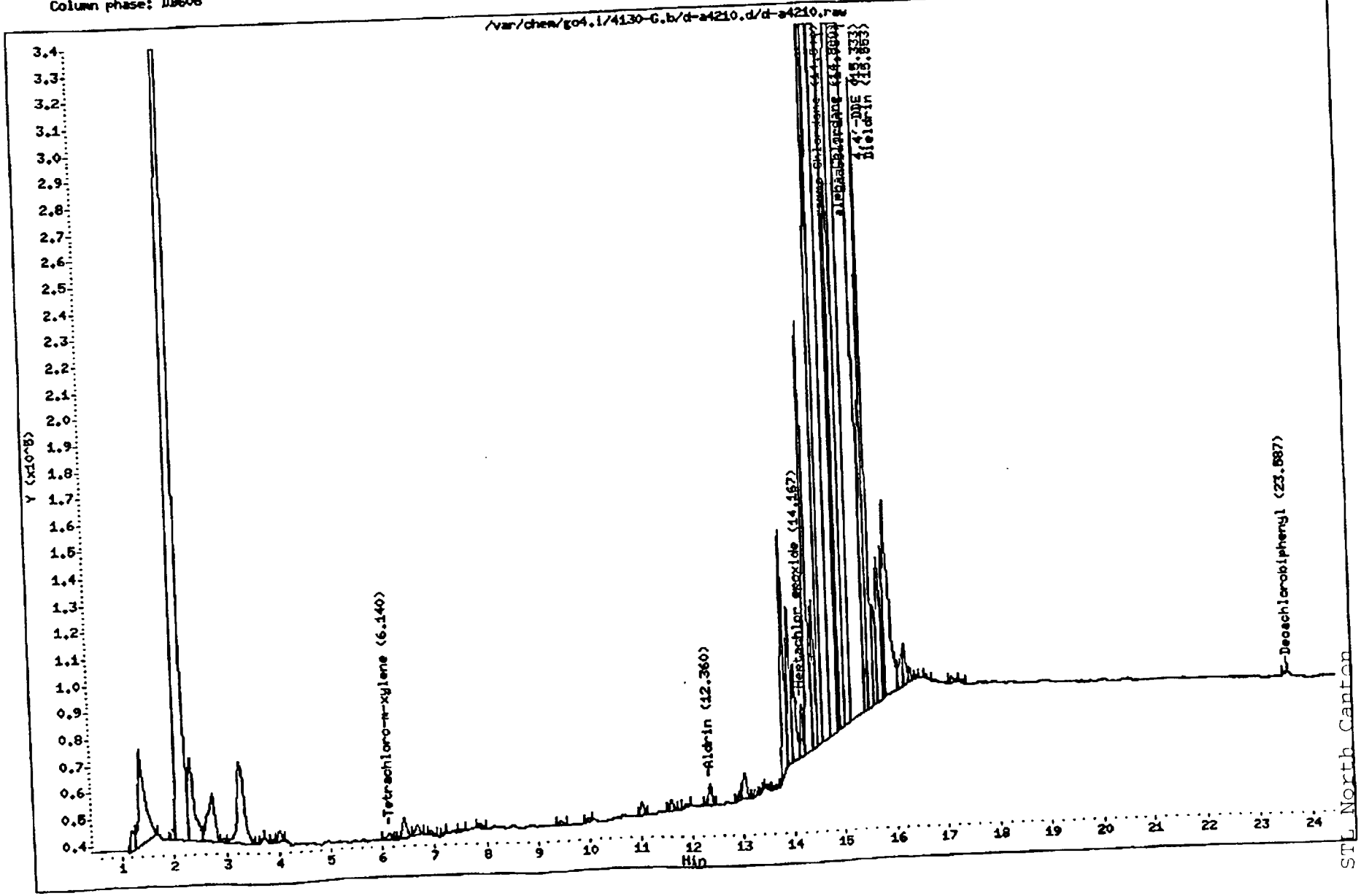
Instrument: gc4.i
Operator: 01891
Column diameter: 0.53



Page 5

Data File: /var/chem/go4.i/4130-G.b/d-a4210.d
Date : 14-JUL-2000 05:37
Client ID: SL16-1.0
Sample Info: DFQU4103,4130-G.b,,all.sub,50,,
Volume Injected (uL): 1.0
Column phase: DB608

Instrument: go4.i
Operator: 01891
Column diameter: 0.53



STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-b4210.d
Lab Smp Id: DFQQ4103 Client Smp ID: SL16-1.0
Inj Date : 14-JUL-2000 05:37
Operator : 01891 Inst ID: gc4.i
Smp Info : DFQQ4103,4130-G.b,,all.sub,50,,
Misc Info : 060146-7
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4B.m
Meth Date : 14-Jul-2000 10:49 matkol Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-b4199.d
Als bottle: 1
Dil Factor: 50.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.40 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	50.000	Dilution Factor
Uf	2.000	GPC Correction factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.000	% Moisture

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.133	6.133	0.000	2855	0.00113	18.79	80.00- 120.00	100.00
2 Aroclor-1221					CAS #: 11104-28-2		

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

4 Aroclor-1232 CAS #: 11141-16-5

Peaks not detected for Quant. or Qual. signal(s).

---

5 alpha-BHC CAS #: 319-84-6

Compound Not Detected

---

3 Aroclor-1016 CAS #: 12674-11-2

Peaks not detected for Quant. or Qual. signal(s).

---

8 Aroclor-1242 CAS #: 53469-21-9

Peaks not detected for Quant. or Qual. signal(s).

---

6 gamma-BHC(Lindane) CAS #: 58-89-9

Compound Not Detected

---

9 Aroclor-1248 CAS #: 12672-29-6

Peaks not detected for Quant. or Qual. signal(s).

---

7 Heptachlor CAS #: 76-44-8

Compound Not Detected

---

10 Aldrin CAS #: 309-00-2

12.280	12.280	0.000	64200	0.00511	85.11	80.00- 120.00	100.00

---

11 beta-BHC CAS #: 319-85-7

Compound Not Detected

---

12 delta-BHC CAS #: 319-86-8

Compound Not Detected

---

13 Heptachlor epoxide CAS #: 1024-57-3

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
14 Aroclor-1254					CAS #: 11097-69-1		
Operator disabled compound identification.							
15 Endosulfan I					CAS #: 959-98-8		
14.847	14.900	-0.053	44563	0.01317	219.6	80.00- 120.00	100.00
16 gamma-Chlordane					CAS #: 5103-74-2		
14.960	14.972	-0.012	35219	0.01047	174.6	80.00- 120.00	100.00
17 alpha-Chlordane					CAS #: 5103-71-9		
15.113	15.080	0.033	147747	0.04285	714.2	80.00- 120.00	100.00
18 4,4'-DDE					CAS #: 72-55-9		
15.207	15.243	-0.036	72710	0.01996	332.6	80.00- 120.00	100.00
19 Dieldrin					CAS #: 60-57-1		
15.547	15.565	-0.018	801753	0.21024	3504	80.00- 120.00	100.00(A)
21 Aroclor-1260					CAS #: 11096-82-5		
Peaks not detected for Quant. or Qual. signal(s).							
22 Endrin					CAS #: 72-20-8		
15.947	15.908	0.039	782859	0.26281	4380	80.00- 120.00	100.00(A)
20 Toxaphene					CAS #: 8001-35-2		
Peaks not detected for Quant. or Qual. signal(s).							
23 4,4'-DDD					CAS #: 72-54-8		
16.473	16.532	-0.059	36794	0.01321	220.1	80.00- 120.00	100.00
24 Endosulfan II					CAS #: 33213-65-9		
Compound Not Detected							
25 4,4'-DDT					CAS #: 50-29-3		
Compound Not Detected							

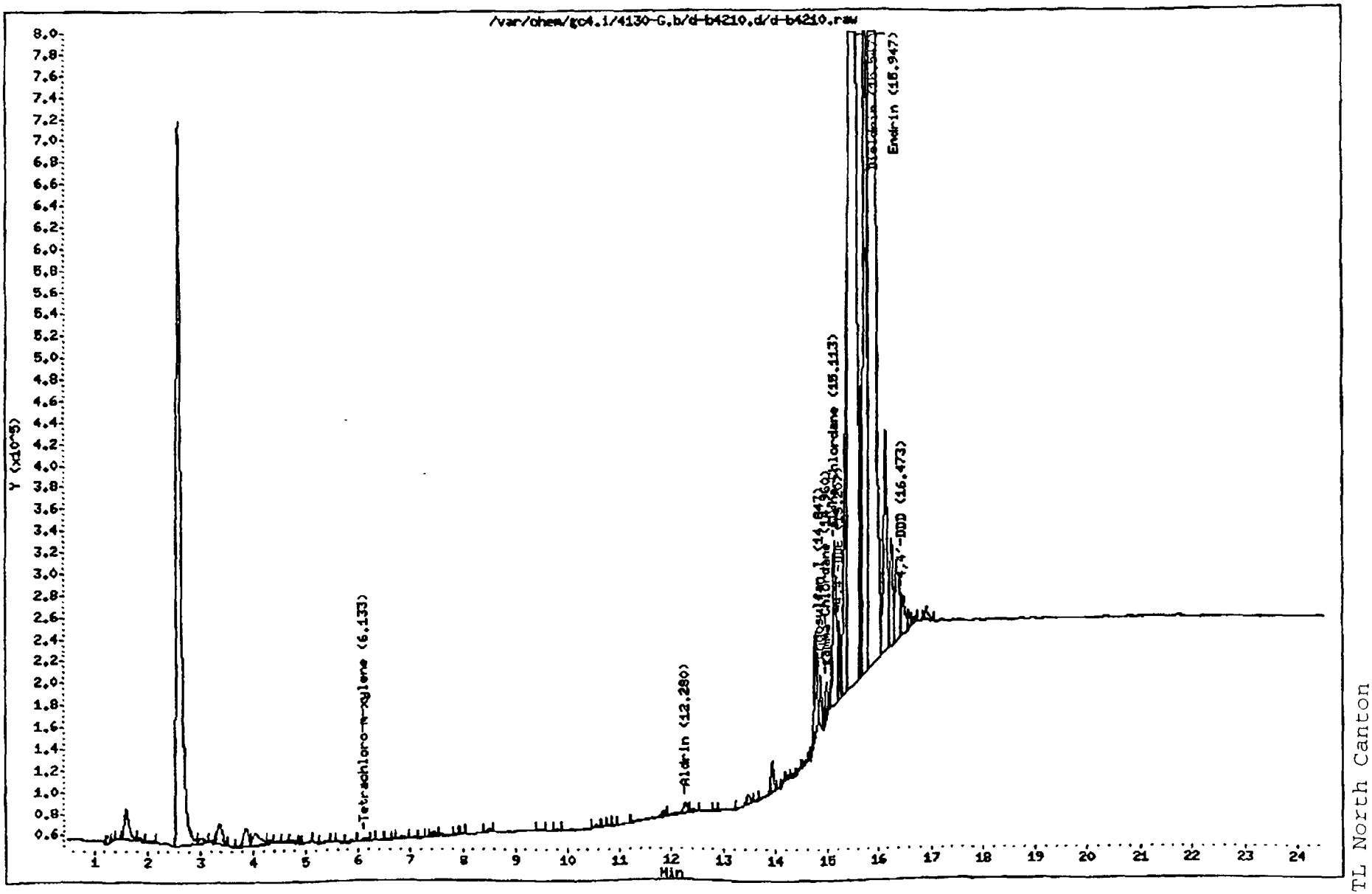
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
26 Endrin aldehyde					CAS #: 7421-93-4		
Compound Not Detected							
28 Methoxychlor					CAS #: 72-43-5		
Compound Not Detected							
27 Endosulfan sulfate					CAS #: 1031-07-8		
Compound Not Detected							
29 Endrin ketone					CAS #: 53494-70-5		
Compound Not Detected							
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
Compound Not Detected							

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /var/chem/gc4.i/4130-G.b/d-b4210.d
Date : 14-JUL-2000 05:37
Client ID: SL16-1.0
Sample Info: DFQQ4103,4130-G.b,,all,sub,50,,
Volume Injected (uL): 1.0
Column phase: DB1701

Instrument: gc4.i
Operator: 01891
Column diameter: 0.53



Data File: /var/chem/gc4.i/4130-G.b/d-b4210.d

Date : 14-JUL-2000 06:37

Client ID: SL16-1.0

Sample Info: BFQQ4103,4130-G.b,,all,sub,50,,

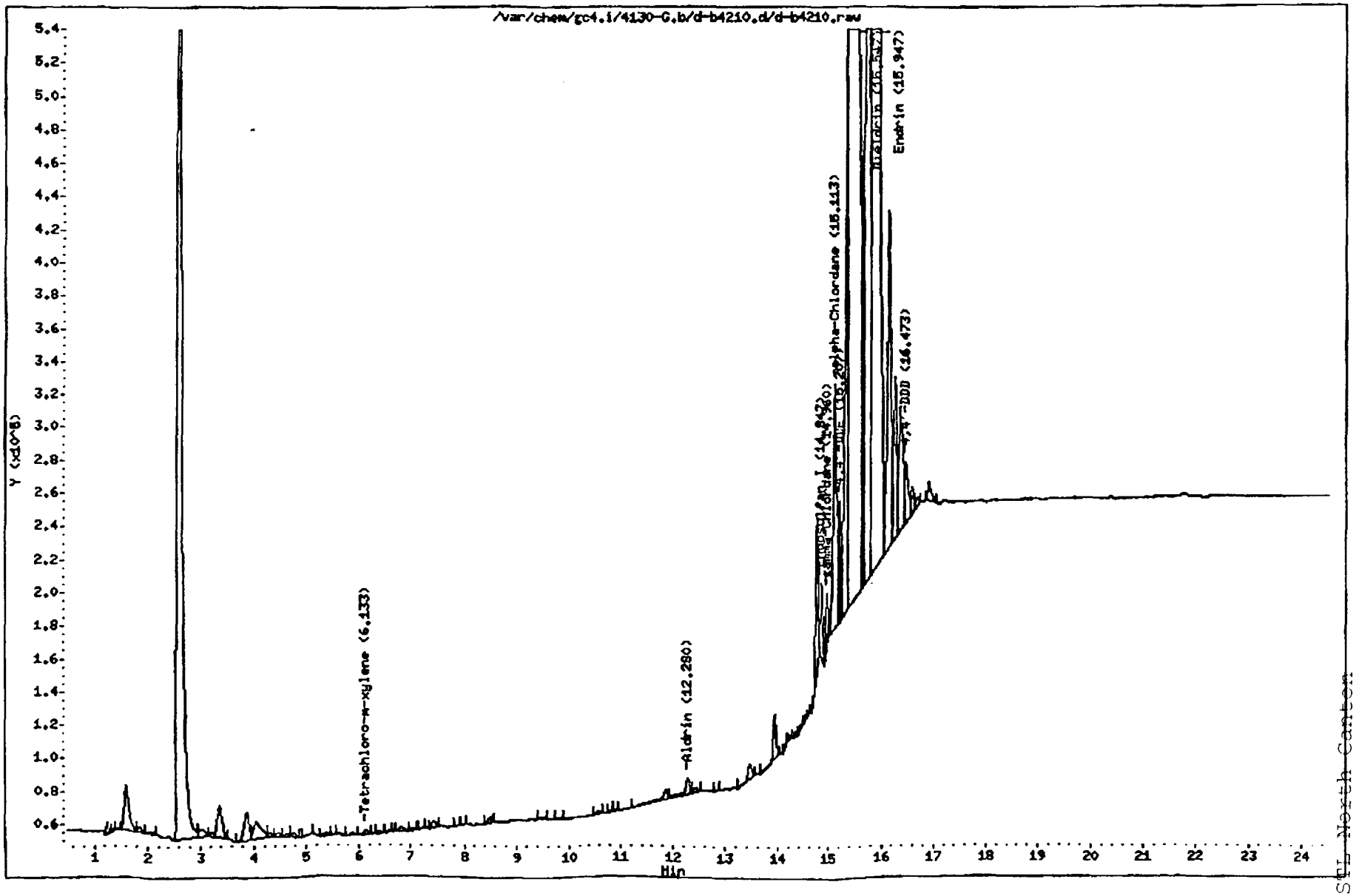
Volume Injected (uL): 1.0

Column phase: DB1701

Instrument: gc4.i

Operator: 01891

Column diameter: 0.53



10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SL16-1.0

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: 40325 SDG No.: G06146

Lab Sample ID: DFQQ4103 Date(s) Analyzed: 07/14/00 07/14/00

Instrument ID (1): GC4 Instrument ID (2): GC4

GC Column(1): DB608 ID: 0.53(mm) GC Column(2): DB1701 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
Aldrin	1	12.36	12.30	12.40	49.31	
	2	12.28	12.23	12.33	85.11	72.6
~~Endosulfan I~~	1	14.98	14.89	15.03	1075	
	2	~~14.85~~	~~14.83~~	~~14.97~~	~~219.6~~	~~389.5~~
Dieldrin	1	15.55	15.47	15.61	1074	
	2	15.55	15.50	15.64	3504	226.2
~~4,4'-DDE~~	1	~~15.33~~	~~15.31~~	~~15.45~~	~~4161~~	
	2	~~15.21~~	~~15.17~~	~~15.31~~	~~332.6~~	~~999.9~~
alpha-Chlordane	1	14.90	14.83	14.97	1320	
	2	15.11	15.01	15.15	714.2	84.8
gamma-Chlordane	1	14.54	14.48	14.62	1709	
	2	14.96	14.90	15.04	174.6	878.8
	1					
	2					
	1					
	2					

MM 7/14/00

page 1 of 1

FORM X PEST-1 OLM03.0

RMT

Lab Name:Severn Trent Laboratories, Inc. SDG Number:G06146

Matrix: (soil/water) SO Lab Sample ID:A0G060146 007
Method: OCLP OLM03.1
Pesticides/PCB (CLP-OLM03.1)

Sample WT/Vol: 30 / g Date Received: 07/06/00
Work Order: DFQQ4203 Date Extracted:07/11/00
Dilution factor: 500 Date Analyzed: 07/14/00
Moisture %:19

QC Batch: 0193481

Client Sample Id: SL16-1.0' -RE 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	1100	U
5103-71-9	alpha-Chlordane	~~1100~~ 1630	PJ ~~U~~
5103-74-2	gamma-Chlordane	1100	U
60-57-1	Dieldrin	2000	U
76-44-8	Heptachlor	1100	U
1024-57-3	Heptachlor epoxide	1100	U
8001-35-2	Toxaphene	110000	U

LM 7/24/00

FORM I

STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-a4211.d
Lab Smp Id: DFQQ4203DIL Client Smp ID: SL16-1.0DIL
Inj Date : 14-JUL-2000 06:04
Operator : 01891 Inst ID: gc4.i
Smp Info : DFQQ4203,4130-G.b,,all.sub,500,,
Misc Info : 060146-7DI
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4A.m
Meth Date : 14-Jul-2000 10:10 matkol Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-a4199.d
Als bottle: 1
Dil Factor: 500.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.40 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	500.000	Dilution Factor
Uf	2.000	GPC Correction factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.000	% Moisture

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
Compound Not Detected							
2 Aroclor-1221					CAS #: 11104-28-2		
Peaks not detected for Quant. or Qual. signal(s).							

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO

3 Aroclor-1232 CAS #: 11141-16-5

Peaks not detected for Quant. or Qual. signal(s).

---

4 Aroclor-1016 CAS #: 12674-11-2

Peaks not detected for Quant. or Qual. signal(s).

---

5 alpha-BHC CAS #: 319-84-6

Compound Not Detected

---

6 Aroclor-1242 CAS #: 53469-21-9

Peaks not detected for Quant. or Qual. signal(s).

---

7 gamma-BHC(Lindane) CAS #: 58-89-9

Compound Not Detected

---

8 beta-BHC CAS #: 319-85-7

Compound Not Detected

---

9 Heptachlor CAS #: 76-44-8

Compound Not Detected

---

10 Aroclor-1248 CAS #: 12672-29-6

Operator disabled compound identification.

---

11 delta-BHC CAS #: 319-86-8

Compound Not Detected

---

12 Aldrin CAS #: 309-00-2

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
13 Heptachlor epoxide					CAS #: 1024-57-3		
Compound Not Detected							
14 gamma-Chlordane					CAS #: 5103-74-2		
14.540	14.551	-0.011	33660	0.01065	1774	80.00- 120.00	100.00
15 Aroclor-1254					CAS #: 11097-69-1		
Peaks not detected for Quant. or Qual. signal(s).							
16 alpha-Chlordane					CAS #: 5103-71-9		
14.900	14.900	0.000	26390	0.00791	1318	80.00- 120.00	100.00
17 Endosulfan I					CAS #: 959-98-8		
14.987	14.960	0.027	19709	0.00615	1025	80.00- 120.00	100.00
19 4,4'-DDE					CAS #: 72-55-9		
Compound Not Detected							
20 Dieldrin					CAS #: 60-57-1		
15.560	15.545	0.015	23540	0.00637	1061	80.00- 120.00	100.00(a)
21 Aroclor-1260					CAS #: 11096-82-5		
Peaks not detected for Quant. or Qual. signal(s).							
22 Endrin					CAS #: 72-20-8		
Compound Not Detected							
23 4,4'-DDD					CAS #: 72-54-8		
Compound Not Detected							
18 Toxaphene					CAS #: 8001-35-2		
Peaks not detected for Quant. or Qual. signal(s).							

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

24 Endosulfan II CAS #: 33213-65-9

Compound Not Detected

---

25 4,4'-DDT CAS #: 50-29-3

Compound Not Detected

---

26 Endrin aldehyde CAS #: 7421-93-4

Compound Not Detected

---

27 Endosulfan sulfate CAS #: 1031-07-8

Compound Not Detected

---

28 Methoxychlor CAS #: 72-43-5

Compound Not Detected

---

29 Endrin ketone CAS #: 53494-70-5

Compound Not Detected

$ 30 Decachlorobiphenyl CAS #: 2051-24-3

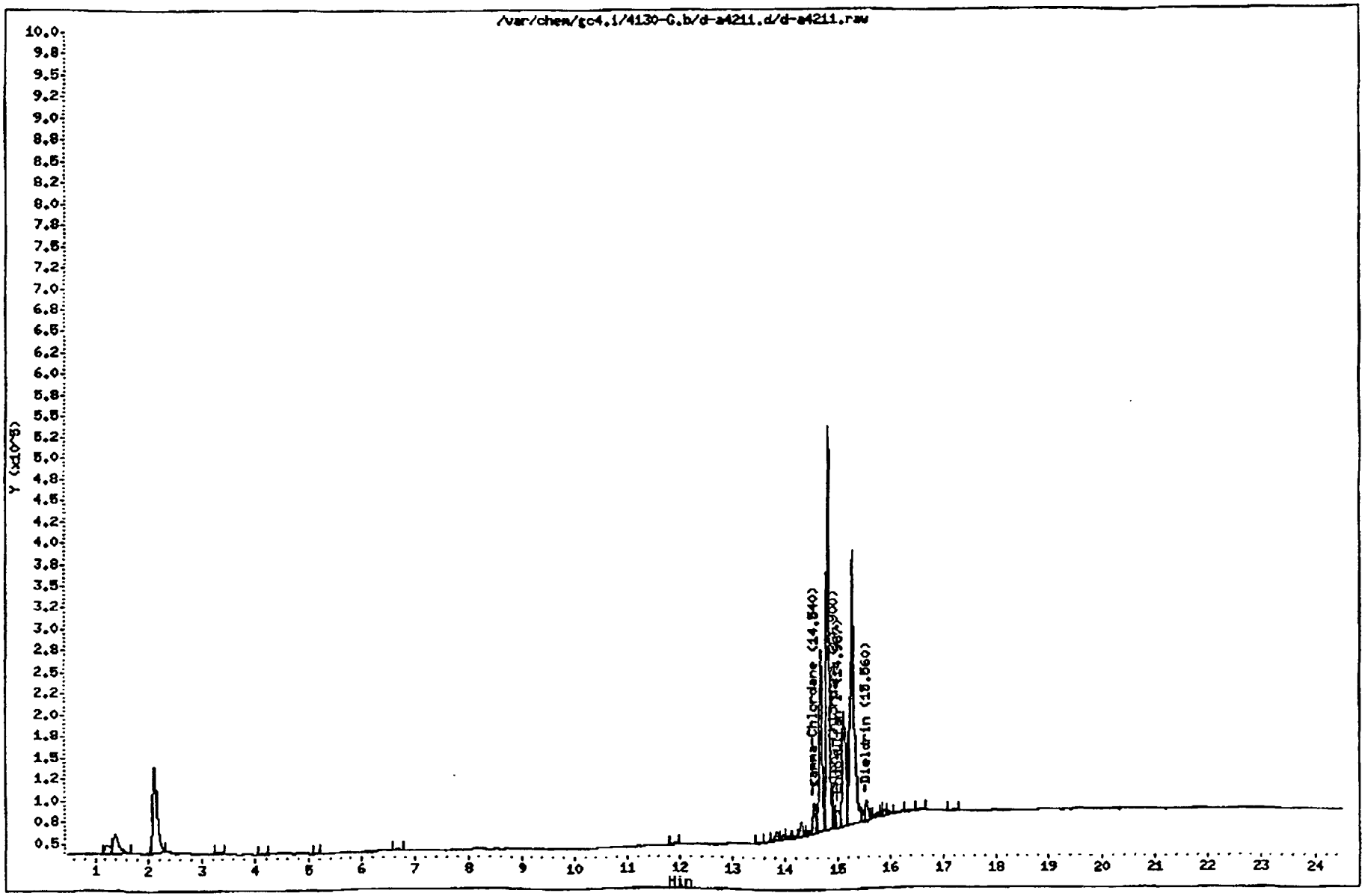
Compound Not Detected

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

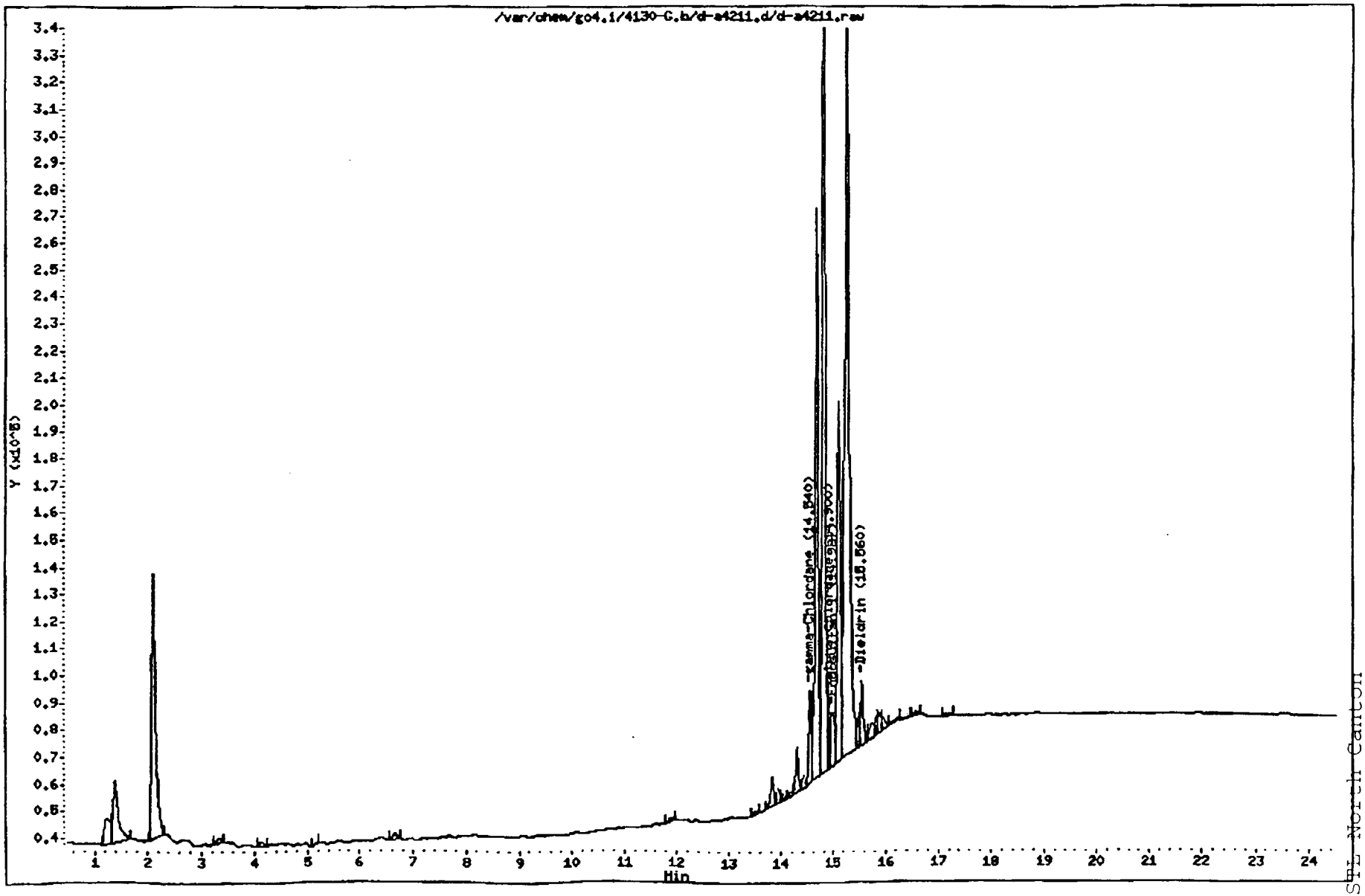
Data File: /var/chem/gc4.i/4130-C.b/d-a4211.d
Date : 14-JUL-2000 06:04
Client ID: SL16-1.0DIL
Sample Info: DFQQ4203,4130-C.b,,all.sub,500,,
Volume Injected (uL): 1.0
Column phase: DB608

Instrument: gc4.i
Operator: 01891
Column diameter: 0.53



Data File: /var/chem/go4.i/4130-G.b/d-a4211.d
Date : 14-JUL-2000 06:04
Client ID: SL16-1.0DIL
Sample Info: DFQQ4203,4130-G.b,,all.sub,500,,
Volume Injected (uL): 1.0
Column phase: DB608

Instrument: go4.i
Operator: 01891
Column diameter: 0.53



STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-b4211.d
Lab Smp Id: DFQQ4203DIL Client Smp ID: SL16-1.0DIL
Inj Date : 14-JUL-2000 06:04
Operator : 01891 Inst ID: gc4.i
Smp Info : DFQQ4203,4130-G.b,,all.sub,500,,
Misc Info : 060146-7DI
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4B.m
Meth Date : 14-Jul-2000 10:49 matkol Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-b4199.d
Als bottle: 1
Dil Factor: 500.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.40 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	500.000	Dilution Factor
Uf	2.000	GPC Correction factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.000	% Moisture

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.133	6.133	0.000	183	<0.0	12.04	80.00- 120.00	100.00
2 Aroclor-1221					CAS #: 11104-28-2		

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

4 Aroclor-1232 CAS #: 11141-16-5

Peaks not detected for Quant. or Qual. signal(s).

---

5 alpha-BHC CAS #: 319-84-6

Compound Not Detected

---

3 Aroclor-1016 CAS #: 12674-11-2

Peaks not detected for Quant. or Qual. signal(s).

---

8 Aroclor-1242 CAS #: 53469-21-9

Peaks not detected for Quant. or Qual. signal(s).

---

6 gamma-BHC(Lindane) CAS #: 58-89-9

Compound Not Detected

---

9 Aroclor-1248 CAS #: 12672-29-6

Peaks not detected for Quant. or Qual. signal(s).

---

7 Heptachlor CAS #: 76-44-8

Compound Not Detected

---

10 Aldrin CAS #: 309-00-2

Compound Not Detected

---

11 beta-BHC CAS #: 319-85-7

Compound Not Detected

---

12 delta-BHC CAS #: 319-86-8

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
13 Heptachlor epoxide					CAS #: 1024-57-3		
Compound Not Detected							
14 Aroclor-1254					CAS #: 11097-69-1		
Peaks not detected for Quant. or Qual. signal(s).							
15 Endosulfan I					CAS #: 959-98-8		
Compound Not Detected							
16 gamma-Chlordane					CAS #: 5103-74-2		
Compound Not Detected							
17 alpha-Chlordane					CAS #: 5103-71-9		
15.113	15.080	0.033	10596	0.00307	512.2	80.00- 120.00	100.00(a)
18 4,4'-DDE					CAS #: 72-55-9		
Compound Not Detected							
19 Dieldrin					CAS #: 60-57-1		
Compound Not Detected							
21 Aroclor-1260					CAS #: 11096-82-5		
Peaks not detected for Quant. or Qual. signal(s).							
22 Endrin					CAS #: 72-20-8		
15.940	15.908	0.032	83540	0.02805	4674	80.00- 120.00	100.00
20 Toxaphene					CAS #: 8001-35-2		
Peaks not detected for Quant. or Qual. signal(s).							
23 4,4'-DDD					CAS #: 72-54-8		
Compound Not Detected							

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

24 Endosulfan II CAS #: 33213-65-9

Compound Not Detected

---

25 4,4'-DDT CAS #: 50-29-3

Compound Not Detected

---

26 Endrin aldehyde CAS #: 7421-93-4

Compound Not Detected

---

28 Methoxychlor CAS #: 72-43-5

Compound Not Detected

---

27 Endosulfan sulfate CAS #: 1031-07-8

Compound Not Detected

---

29 Endrin ketone CAS #: 53494-70-5

Compound Not Detected

$ 30 Decachlorobiphenyl CAS #: 2051-24-3

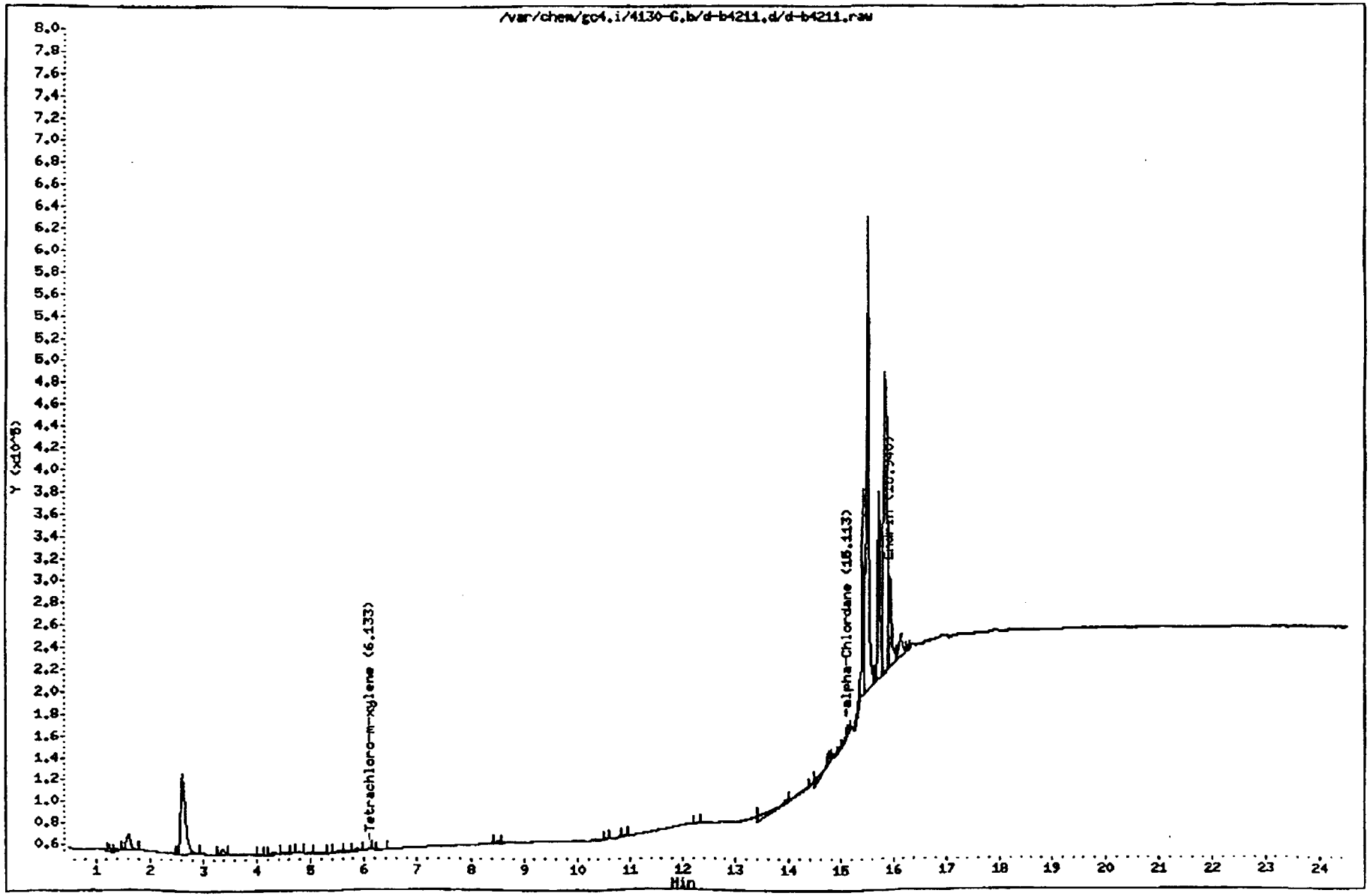
Compound Not Detected

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: /var/chem/gc4.i/4130-G.b/d-b4211.d
Date : 14-JUL-2000 06:04
Client ID: SL16-1.0DIL
Sample Info: MFUU4203,4130-G.b,,all.sub,500,,
Volume Injected (uL): 1.0
Column phase: DB1701

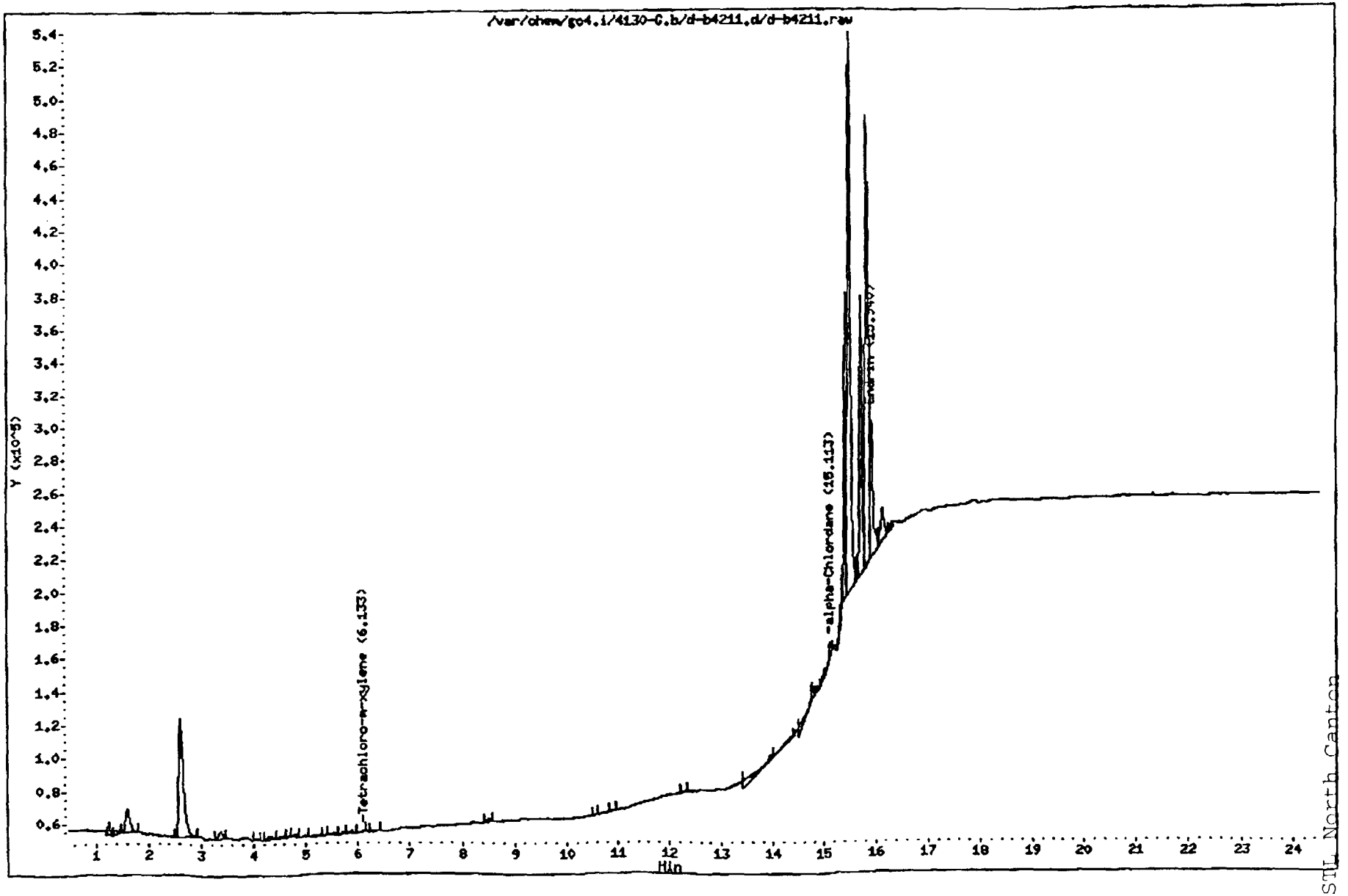
Instrument: gc4.i
Operator: 01891
Column diameter: 0.53



Data File: /var/chem/gc4.i/4130-G.b/d-b4211.d
Date : 14-JUL-2000 06:04
Client ID: SL16-1.0DIL
Sample Info: DFQQ4203,4130-G.b,,all.sub,500,,
Volume Injected (uL): 1.0
Column phase: DB1701

Instrument: gc4.i

Operator: 01891
Column diameter: 0.53



10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SL16-1.0DIL

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: 40325 SDG No.: G06146

Lab Sample ID: DFQQ4203DIL Date(s) Analyzed: 07/14/00 07/14/00

Instrument ID (1): GC4 Instrument ID (2): GC4

GC Column(1): DB608 ID: 0.53(mm) GC Column(2): DB1701 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
alpha-Chlordane	1	14.90	14.83	14.97	1318	
	2	15.11	15.01	15.15	512.2	157.3
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

RMT

Lab Name:Severn Trent Laboratories, Inc. SDG Number:G06146

Matrix: (soil/water) SO Lab Sample ID:A0G060146 008
Method: OCLP OLM03.1
Pesticides/PCB (CLP-OLM03.1)

Sample WT/Vol: 30 / g Date Received: 07/06/00
Work Order: DFQQ5103 Date Extracted:07/11/00
Dilution factor: 100 Date Analyzed: 07/14/00
Moisture %:18

QC Batch: 0193481

Client Sample Id: SL17-1.0'

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	15000	EC
5103-71-9	alpha-Chlordane	210	U
5103-74-2	gamma-Chlordane	~~210~~ 110	J ~~U~~
60-57-1	Dieldrin	400	U
76-44-8	Heptachlor	210	U
1024-57-3	Heptachlor epoxide	210	U
8001-35-2	Toxaphene	21000	U

um 7/24/00

FORM I

STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-a4212.d
Lab Smp Id: DFQQ5103 Client Smp ID: SL17-1.0
Inj Date : 14-JUL-2000 06:32
Operator : 01891 Inst ID: gc4.i
Smp Info : DFQQ5103,4130-G.b,,all.sub,100,,
Misc Info : 060146-8
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4A.m
Meth Date : 14-Jul-2000 10:10 matkol Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-a4199.d
Als bottle: 1
Dil Factor: 100.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.40 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	100.000	Dilution Factor
Uf	2.000	GPC Correction factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.000	% Moisture

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

$ 1 Tetrachloro-m-xylene CAS #: 877-09-8

Compound Not Detected

---

2 Aroclor-1221 CAS #: 11104-28-2

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

3 Aroclor-1232 CAS #: 11141-16-5

Peaks not detected for Quant. or Qual. signal(s).

---

4 Aroclor-1016 CAS #: 12674-11-2

Peaks not detected for Quant. or Qual. signal(s).

---

5 alpha-BHC CAS #: 319-84-6

Compound Not Detected

---

6 Aroclor-1242 CAS #: 53469-21-9

Peaks not detected for Quant. or Qual. signal(s).

---

7 gamma-BHC(Lindane) CAS #: 58-89-9

Compound Not Detected

---

8 beta-BHC CAS #: 319-85-7

Compound Not Detected

---

9 Heptachlor CAS #: 76-44-8

Compound Not Detected

---

10 Aroclor-1248 CAS #: 12672-29-6

Peaks not detected for Quant. or Qual. signal(s).

---

11 delta-BHC CAS #: 319-86-8

Compound Not Detected

---

12 Aldrin CAS #: 309-00-2

12.380	12.352	0.028	953550	0.36717	12240	80.00- 120.00	100.00(A)

---

13 Heptachlor epoxide CAS #: 1024-57-3

Compound Not Detected

---

14 gamma-Chlordane CAS #: 5103-74-2

14.547	14.551	-0.004	9664	0.00306	101.9	80.00- 120.00	100.00(m)

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
15 Aroclor-1254					CAS #: 11097-69-1		

Peaks not detected for Quant. or Qual. signal(s).

---

16 alpha-Chlordane CAS #: 5103-71-9

Compound Not Detected

---

17 Endosulfan I CAS #: 959-98-8

Compound Not Detected

---

19 4,4'-DDE CAS #: 72-55-9

Compound Not Detected

---

20 Dieldrin CAS #: 60-57-1

15.540	15.545	-0.005	22098	0.00598	199.2	80.00- 120.00	100.00(m)

---

21 Aroclor-1260 CAS #: 11096-82-5

Peaks not detected for Quant. or Qual. signal(s).

---

22 Endrin CAS #: 72-20-8

Compound Not Detected

---

23 4,4'-DDD CAS #: 72-54-8

Compound Not Detected

---

18 Toxaphene CAS #: 8001-35-2

Peaks not detected for Quant. or Qual. signal(s).

---

24 Endosulfan II CAS #: 33213-65-9

Compound Not Detected

---

25 4,4'-DDT CAS #: 50-29-3

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
26 Endrin aldehyde					CAS #: 7421-93-4		
Compound Not Detected							
27 Endosulfan sulfate					CAS #: 1031-07-8		
Compound Not Detected							
28 Methoxychlor					CAS #: 72-43-5		
Compound Not Detected							
29 Endrin ketone					CAS #: 53494-70-5		
Compound Not Detected							
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
Compound Not Detected							

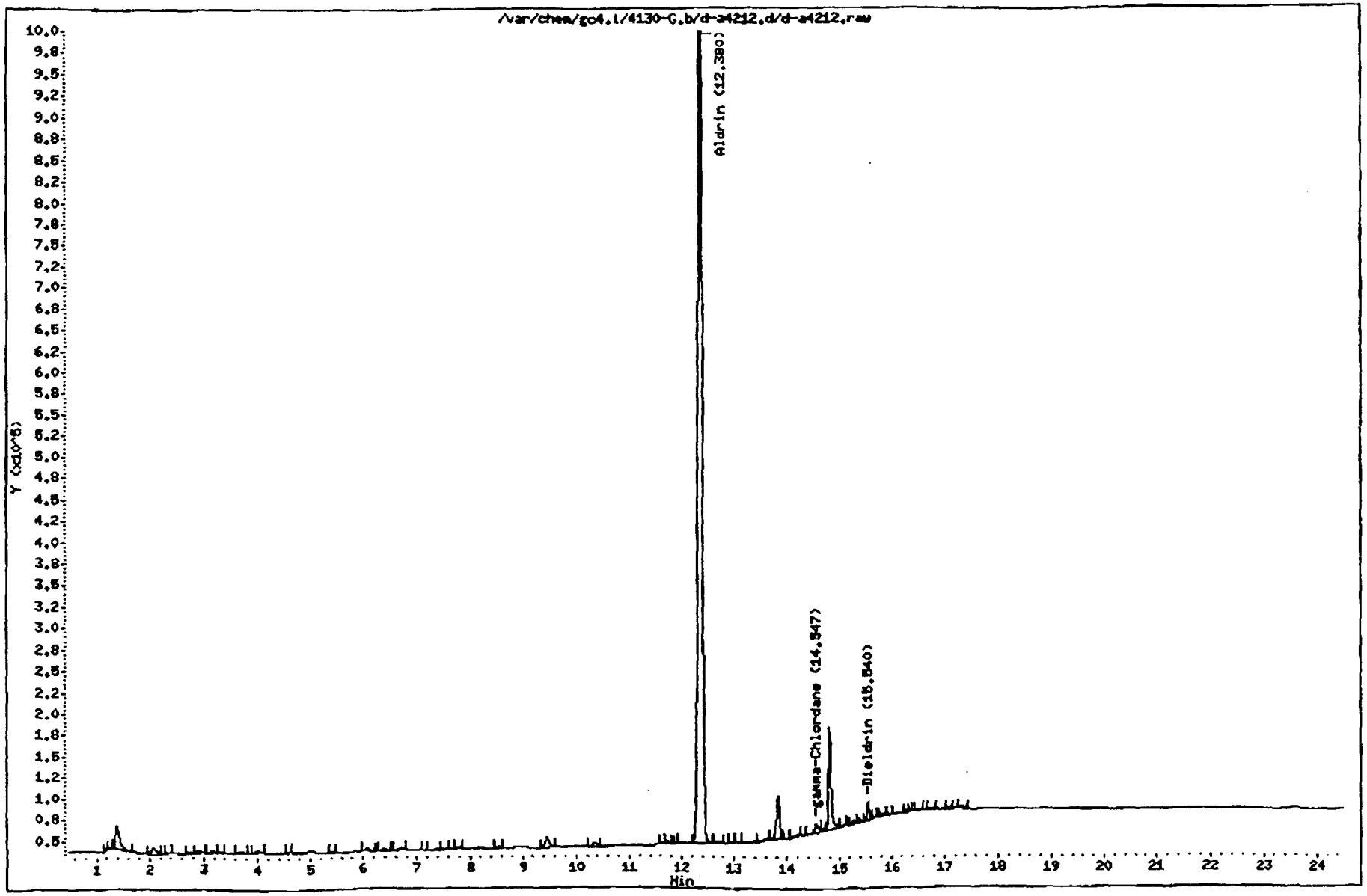
QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /var/chem/gc4.i/4130-G.b/d-a4212.d
Date : 14-JUL-2000 06:32
Client ID: SL17-1.0
Sample Info: DFQQ5103,4130-G.b,,all,sub,100,,
Volume Injected (uL): 1.0
Column phase: DB608

Instrument: gc4.i

Operator: 01891
Column diameter: 0.53

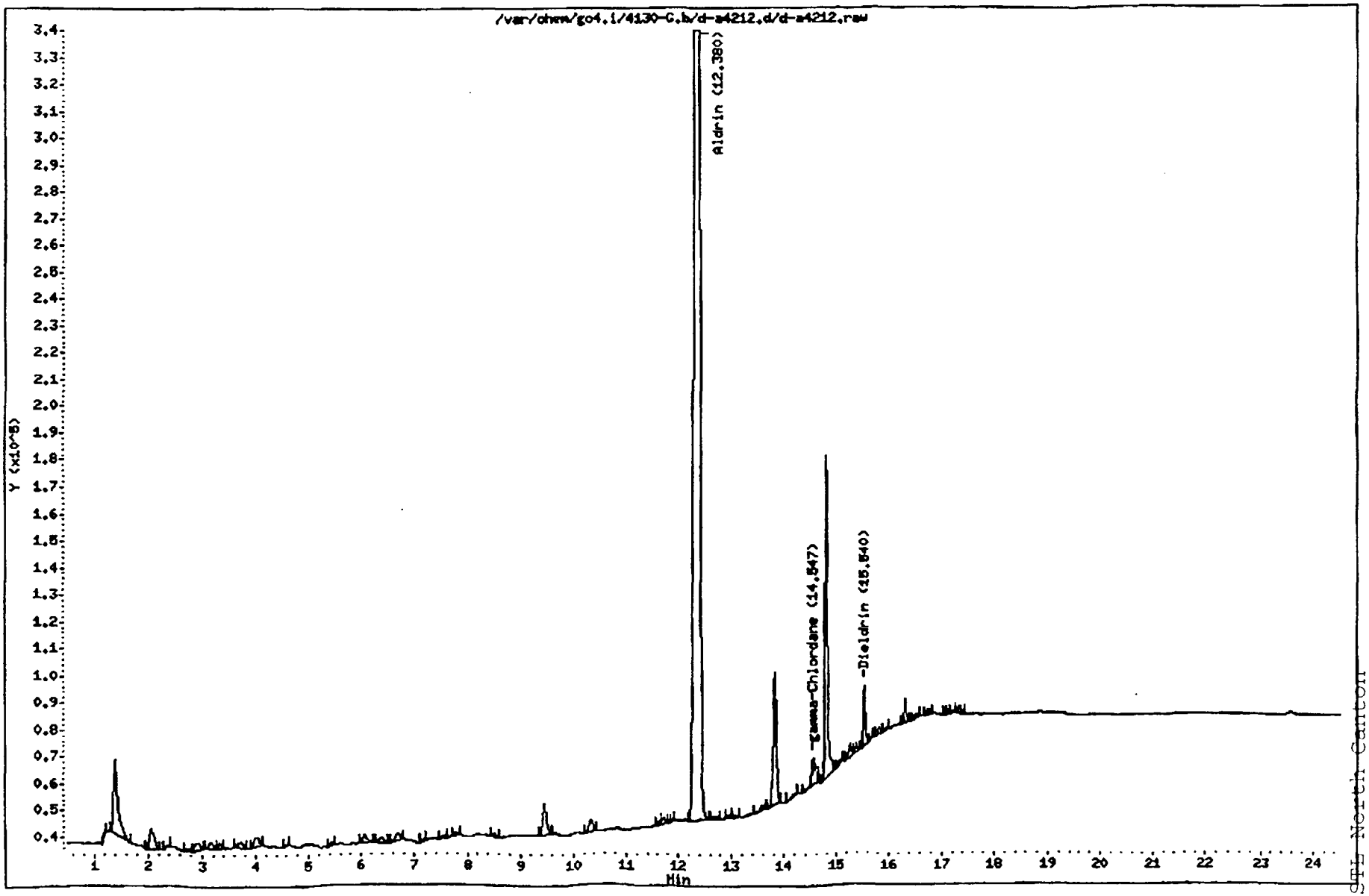


Data File: /var/chem/go4.i/4130-G.b/d-a4212.d
Date : 14-JUL-2000 06:32
Client ID: SL17-1.0
Sample Info: BFQQ5103,4130-G.b,,all.sub,100,,
Volume Injected (uL): 1.0
Column phase: DB608

Page 1

Instrument: go4.i

Operator: 01891
Column diameter: 0.53



STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-b4212.d
Lab Smp Id: DFQQ5103 Client Smp ID: SL17-1.0
Inj Date : 14-JUL-2000 06:32
Operator : 01891 Inst ID: gc4.i
Smp Info : DFQQ5103,4130-G.b,,all.sub,100,,
Misc Info : 060146-8
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4B.m
Meth Date : 14-Jul-2000 10:49 matkol Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-b4199.d
Als bottle: 1
Dil Factor: 100.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.40 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	100.000	Dilution Factor
Uf	2.000	GPC Correction factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.000	% Moisture

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.127	6.133	-0.006	2908	0.00115	38.27	80.00- 120.00	100.00(R)
2 Aroclor-1221					CAS #: 11104-28-2		

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

4 Aroclor-1232 CAS #: 11141-16-5

Peaks not detected for Quant. or Qual. signal(s).

---

5 alpha-BHC CAS #: 319-84-6

Compound Not Detected

---

3 Aroclor-1016 CAS #: 12674-11-2

Peaks not detected for Quant. or Qual. signal(s).

---

8 Aroclor-1242 CAS #: 53469-21-9

Peaks not detected for Quant. or Qual. signal(s).

---

6 gamma-BHC(Lindane) CAS #: 58-89-9

Compound Not Detected

---

9 Aroclor-1248 CAS #: 12672-29-6

Peaks not detected for Quant. or Qual. signal(s).

---

7 Heptachlor CAS #: 76-44-8

Compound Not Detected

---

10 Aldrin CAS #: 309-00-2

12.307	12.280	0.027	5419359	0.43107	14370	80.00- 120.00	100.00(A)

---

11 beta-BHC CAS #: 319-85-7

Compound Not Detected

---

12 delta-BHC CAS #: 319-86-8

Compound Not Detected

---

13 Heptachlor epoxide CAS #: 1024-57-3

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
**	******	********	********	*******	*******	**********	*****

14 Aroclor-1254 CAS #: 11097-69-1

Peaks not detected for Quant. or Qual. signal(s).

---

15 Endosulfan I CAS #: 959-98-8

Compound Not Detected

---

16 gamma-Chlordane CAS #: 5103-74-2

14.973	14.972	0.001	9260	0.00278	92.78	80.00- 120.00	100.00(m)

---

17 alpha-Chlordane CAS #: 5103-71-9

Compound Not Detected

---

18 4,4'-DDE CAS #: 72-55-9

Compound Not Detected

---

19 Dieldrin CAS #: 60-57-1

Compound Not Detected

---

21 Aroclor-1260 CAS #: 11096-82-5

Peaks not detected for Quant. or Qual. signal(s).

---

22 Endrin CAS #: 72-20-8

Compound Not Detected

---

20 Toxaphene CAS #: 8001-35-2

Peaks not detected for Quant. or Qual. signal(s).

---

23 4,4'-DDD CAS #: 72-54-8

Compound Not Detected

---

24 Endosulfan II CAS #: 33213-65-9

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

25 4,4'-DDT CAS #: 50-29-3

Compound Not Detected

---

26 Endrin aldehyde CAS #: 7421-93-4

Compound Not Detected

---

28 Methoxychlor CAS #: 72-43-5

Compound Not Detected

---

27 Endosulfan sulfate CAS #: 1031-07-8

Compound Not Detected

---

29 Endrin ketone CAS #: 53494-70-5

Compound Not Detected

$ 30 Decachlorobiphenyl CAS #: 2051-24-3

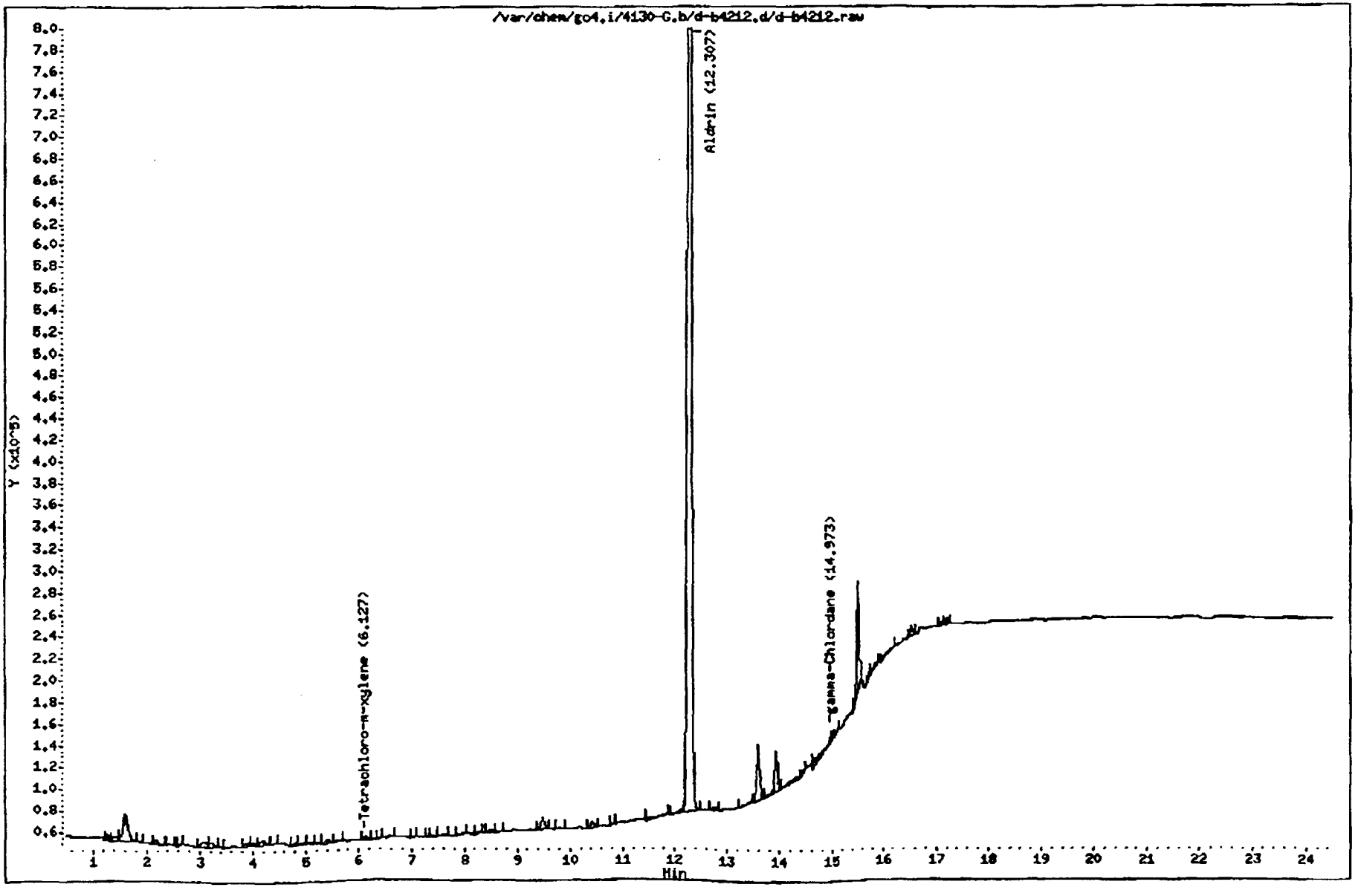
Compound Not Detected

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/go4.i/4130-G.b/d-b4212.d
Date : 14-JUL-2000 06:32
Client ID: SL17-1.0
Sample Info: DFQQ8103,4130-G.b,,all.sub,100,,
Volume Injected (uL): 1.0
Column phase: DB1701

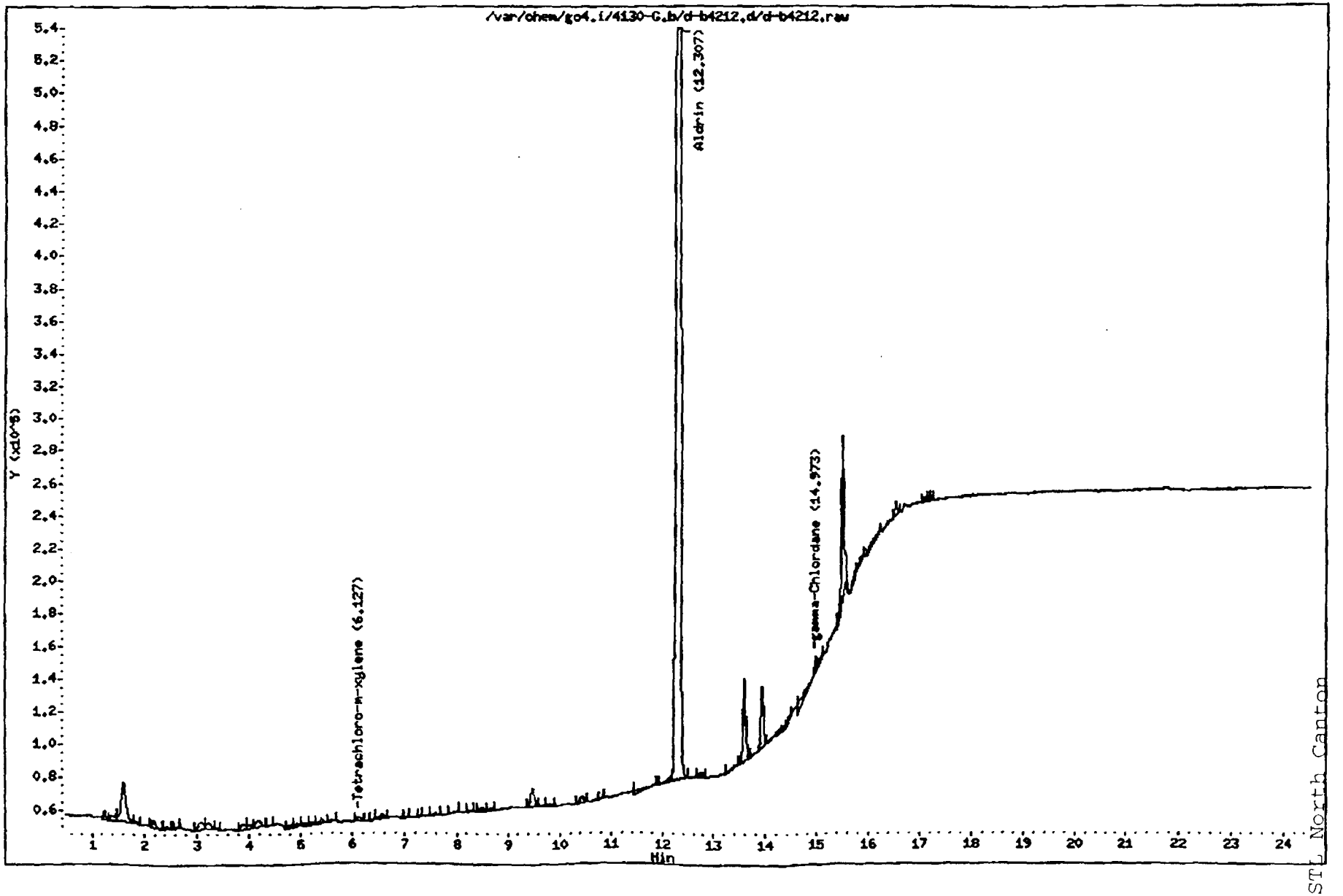
Instrument: go4.i
Operator: 01891
Column diameter: 0.53



Data File: /var/chem/gc4.i/4130-G.b/d-b4212.d
Date : 14-JUL-2000 06:32
Client ID: SL17-1.0
Sample Info: DFQQ6103,4130-G.b,,all,sub,100,,
Volume Injected (uL): 1.0
Column phase: DB1701

Instrument: gc4.i

Operator: 01891
Column diameter: 0.53



10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SL17-1.0

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: 40325 SDG No.: G06146

Lab Sample ID: DFQQ5103 Date(s) Analyzed: 07/14/00 07/14/00

Instrument ID (1): GC4 Instrument ID (2): GC4

GC Column(1): DB608 ID: 0.53(mm) GC Column(2): DB1701 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
Aldrin	1	12.38	12.30	12.40	12240	
	2	12.31	12.23	12.33	14370	17.4
gamma-Chlordane	1	14.55	14.48	14.62	101.9	
	2	14.97	14.90	15.04	92.78	9.8
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1 OLM03.0

RMT

Lab Name:Severn Trent Laboratories, Inc. SDG Number:G06146

Matrix: (soil/water) SO Lab Sample ID:A0G060146 008
Method: OCLP OLM03.1
Pesticides/PCB (CLP-OLM03.1)

Sample WT/Vol: 30 / g Date Received: 07/06/00
Work Order: DFQQ5203 Date Extracted:07/11/00
Dilution factor: 1000 Date Analyzed: 07/14/00
Moisture %:18

QC Batch: 0193481

Client Sample Id: SL17-1.0' -RE 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	19000	C
5103-71-9	alpha-Chlordane	2100	U
5103-74-2	gamma-Chlordane	2100	U
60-57-1	Dieldrin	4000	U
76-44-8	Heptachlor	2100	U
1024-57-3	Heptachlor epoxide	2100	U
8001-35-2	Toxaphene	210000	U

FORM I

STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-a4213.d
Lab Smp Id: DFQQ5203DIL Client Smp ID: SL17-1.0DIL
Inj Date : 14-JUL-2000 07:00
Operator : 01891 Inst ID: gc4.i
Smp Info : DFQQ5203,4130-G.b,,all.sub,100,,
Misc Info : 060146-8DI
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4A.m
Meth Date : 14-Jul-2000 10:10 matkol Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-a4199.d
Als bottle: 1
Dil Factor: 1000.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.40 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	1000.000	Dilution Factor
Uf	2.000	GPC Correction factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.000	% Moisture

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

1 Tetrachloro-m-xylene CAS #: 877-09-8

Compound Not Detected

---

2 Aroclor-1221 CAS #: 11104-28-2

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
3 Aroclor-1232					CAS #: 11141-16-5		

Peaks not detected for Quant. or Qual. signal(s).

---

4 Aroclor-1016 CAS #: 12674-11-2

Peaks not detected for Quant. or Qual. signal(s).

---

5 alpha-BHC CAS #: 319-84-6

Compound Not Detected

---

6 Aroclor-1242 CAS #: 53469-21-9

Peaks not detected for Quant. or Qual. signal(s).

---

7 gamma-BHC(Lindane) CAS #: 58-89-9

Compound Not Detected

---

8 beta-BHC CAS #: 319-85-7

Compound Not Detected

---

9 Heptachlor CAS #: 76-44-8

Compound Not Detected

---

10 Aroclor-1248 CAS #: 12672-29-6

Peaks not detected for Quant. or Qual. signal(s).

---

11 delta-BHC CAS #: 319-86-8

Compound Not Detected

---

12 Aldrin CAS #: 309-00-2

12.353	12.352	0.001	123418	0.04752	15840	80.00- 120.00	100.00

---

13 Heptachlor epoxide CAS #: 1024-57-3

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

14 gamma-Chlordane CAS #: 5103-74-2

Compound Not Detected

---

15 Aroclor-1254 CAS #: 11097-69-1

Peaks not detected for Quant. or Qual. signal(s).

---

16 alpha-Chlordane CAS #: 5103-71-9

Compound Not Detected

---

17 Endosulfan I CAS #: 959-98-8

Compound Not Detected

---

19 4,4'-DDE CAS #: 72-55-9

Compound Not Detected

---

20 Dieldrin CAS #: 60-57-1

Compound Not Detected

---

21 Aroclor-1260 CAS #: 11096-82-5

Peaks not detected for Quant. or Qual. signal(s).

---

22 Endrin CAS #: 72-20-8

Compound Not Detected

---

23 4,4'-DDD CAS #: 72-54-8

Compound Not Detected

---

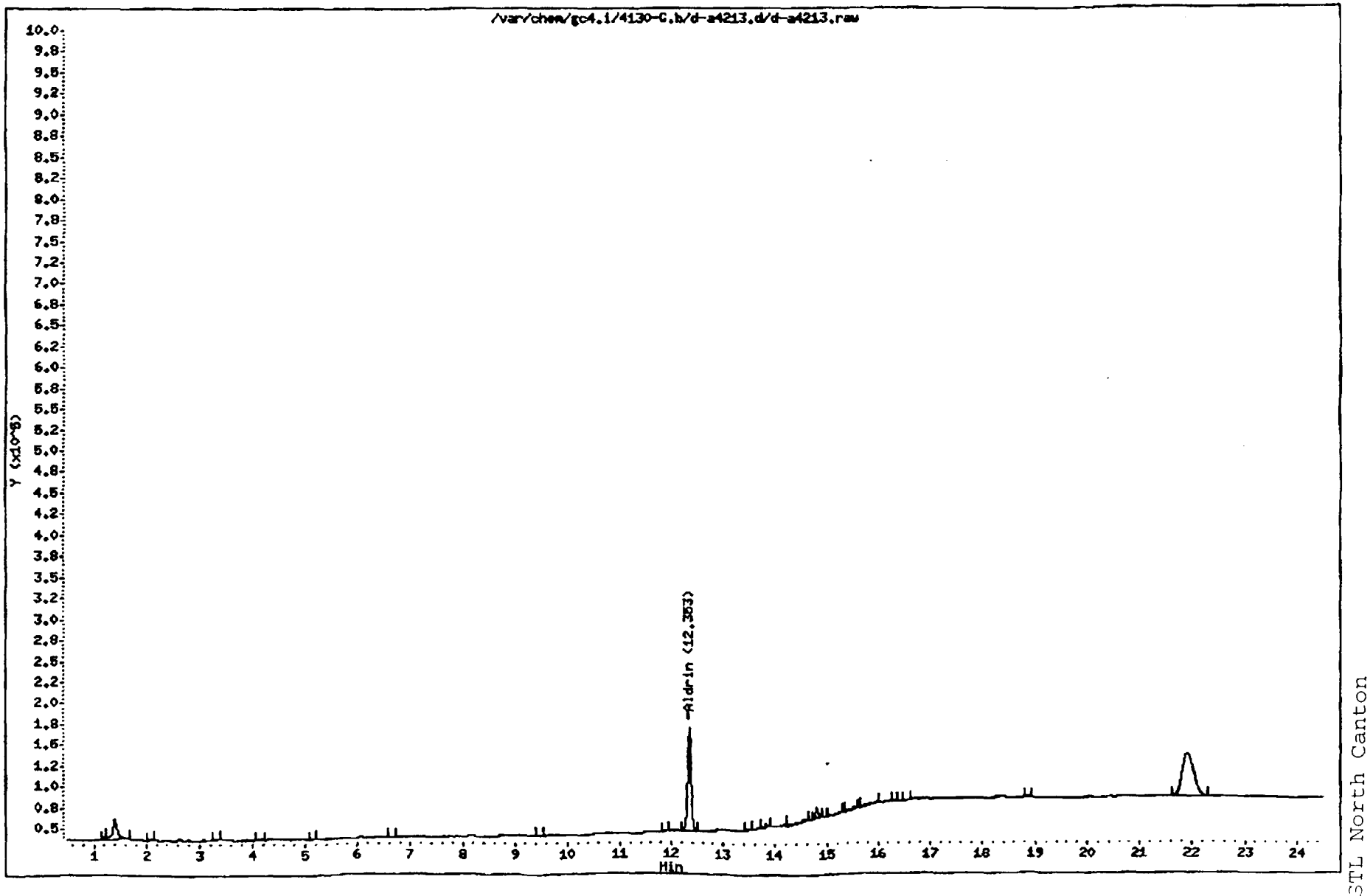
18 Toxaphene CAS #: 8001-35-2

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
24 Endosulfan II					CAS #: 33213-65-9		
Compound Not Detected							
25 4,4'-DDT					CAS #: 50-29-3		
Compound Not Detected							
26 Endrin aldehyde					CAS #: 7421-93-4		
Compound Not Detected							
27 Endosulfan sulfate					CAS #: 1031-07-8		
Compound Not Detected							
28 Methoxychlor					CAS #: 72-43-5		
Compound Not Detected							
29 Endrin ketone					CAS #: 53494-70-5		
Compound Not Detected							
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
Compound Not Detected							

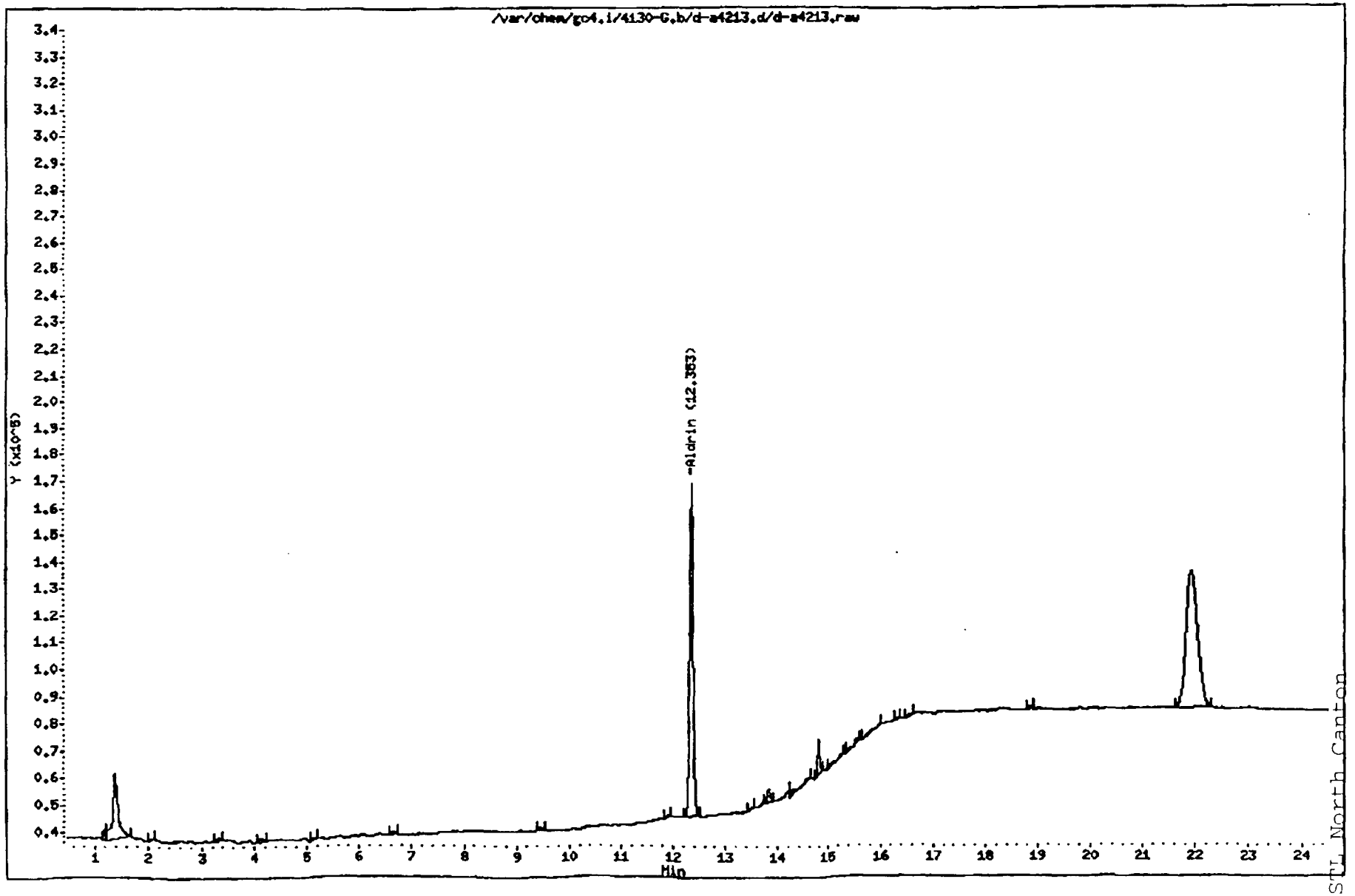
Data File: /var/chem/gc4.i/4130-C.b/d-a4213.d
Date : 14-JUL-2000 07:00
Client ID: SL17-1.0BIL
Sample Info: MFQQ5203,4130-C.b,,all.sub,100,,
Volume Injected (uL): 1.0
Column phase: DB608

Instrument: gc4.i
Operator: 01891
Column diameter: 0.53



Data File: /var/chem/go4.i/4130-G.b/d-a4213.d
Date : 14-JUL-2000 07:00
Client ID: SL17-1.0DIL
Sample Info: DFQQ5203,4130-G.b,,all.sub,100,,
Volume Injected (uL): 1.0
Column phase: DB608

Instrument: go4.i
Operator: 01891
Column diameter: 0.53



STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-b4213.d
Lab Smp Id: DFQQ5203DIL Client Smp ID: SL17-1.0DIL
Inj Date : 14-JUL-2000 07:00
Operator : 01891 Inst ID: gc4.i
Smp Info : DFQQ5203,4130-G.b,,all.sub,100,,
Misc Info : 060146-8DI
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4B.m
Meth Date : 14-Jul-2000 10:49 matkol Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-b4199.d
Als bottle: 1
Dil Factor: 1000.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.40 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	1000.000	Dilution Factor
Uf	2.000	GPC Correction factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.000	% Moisture

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.133	6.133	0.000	228	<0.0	30.01	80.00- 120.00	100.00(R)
2 Aroclor-1221					CAS #: 11104-28-2		

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

4 Aroclor-1232 CAS #: 11141-16-5

Peaks not detected for Quant. or Qual. signal(s).

---

5 alpha-BHC CAS #: 319-84-6

Compound Not Detected

---

3 Aroclor-1016 CAS #: 12674-11-2

Peaks not detected for Quant. or Qual. signal(s).

---

8 Aroclor-1242 CAS #: 53469-21-9

Peaks not detected for Quant. or Qual. signal(s).

---

6 gamma-BHC(Lindane) CAS #: 58-89-9

Compound Not Detected

---

9 Aroclor-1248 CAS #: 12672-29-6

Peaks not detected for Quant. or Qual. signal(s).

---

7 Heptachlor CAS #: 76-44-8

Compound Not Detected

---

10 Aldrin CAS #: 309-00-2

12.287	12.280	0.007	582266	0.04632	15440	80.00- 120.00	100.00

---

11 beta-BHC CAS #: 319-85-7

Compound Not Detected

---

12 delta-BHC CAS #: 319-86-8

Compound Not Detected

---

13 Heptachlor epoxide CAS #: 1024-57-3

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
14 Aroclor-1254					CAS #: 11097-69-1		

Peaks not detected for Quant. or Qual. signal(s).

---

15 Endosulfan I					CAS #: 959-98-8		

Compound Not Detected

---

16 gamma-Chlordane					CAS #: 5103-74-2		

Compound Not Detected

---

17 alpha-Chlordane					CAS #: 5103-71-9		

Compound Not Detected

---

18 4,4'-DDE					CAS #: 72-55-9		

Compound Not Detected

---

19 Dieldrin					CAS #: 60-57-1		

Compound Not Detected

---

21 Aroclor-1260					CAS #: 11096-82-5		

Peaks not detected for Quant. or Qual. signal(s).

---

22 Endrin					CAS #: 72-20-8		

Compound Not Detected

---

20 Toxaphene					CAS #: 8001-35-2		

Peaks not detected for Quant. or Qual. signal(s).

---

23 4,4'-DDD					CAS #: 72-54-8		

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
24 Endosulfan II					CAS #: 33213-65-9		
Compound Not Detected							
25 4,4'-DDT					CAS #: 50-29-3		
Compound Not Detected							
26 Endrin aldehyde					CAS #: 7421-93-4		
Compound Not Detected							
28 Methoxychlor					CAS #: 72-43-5		
Compound Not Detected							
27 Endosulfan sulfate					CAS #: 1031-07-8		
Compound Not Detected							
29 Endrin ketone					CAS #: 53494-70-5		
Compound Not Detected							
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
Compound Not Detected							

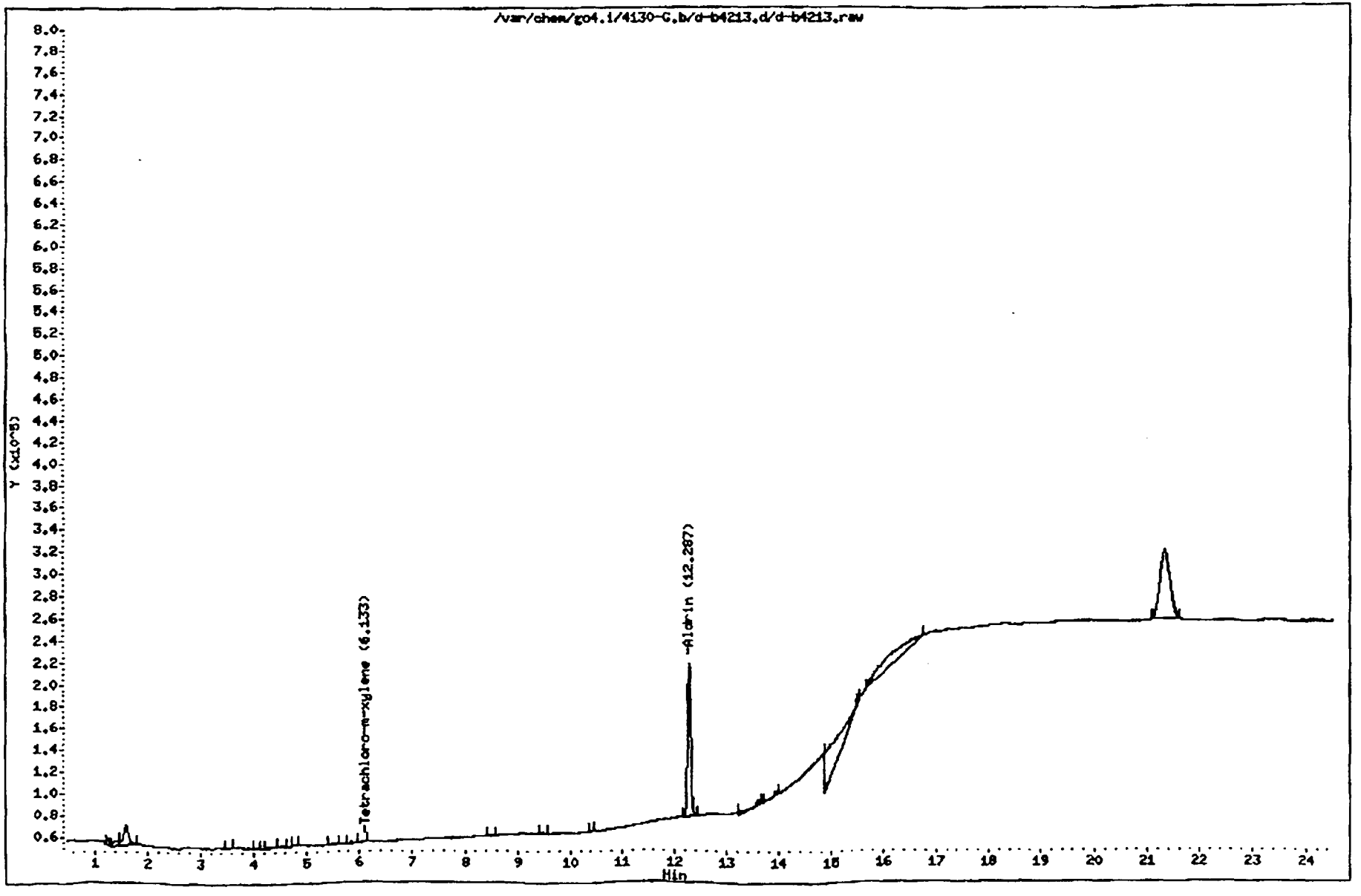
QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gc4.i/4130-G.b/d-b4213.d
Date : 14-JUL-2000 07:00
Client ID: SL17-1.0DIL
Sample Info: DFQQ5203,4130-G.b,,all,sub,100,,
Volume Injected (uL): 1.0
Column phase: DB1701

Instrument: gc4.i

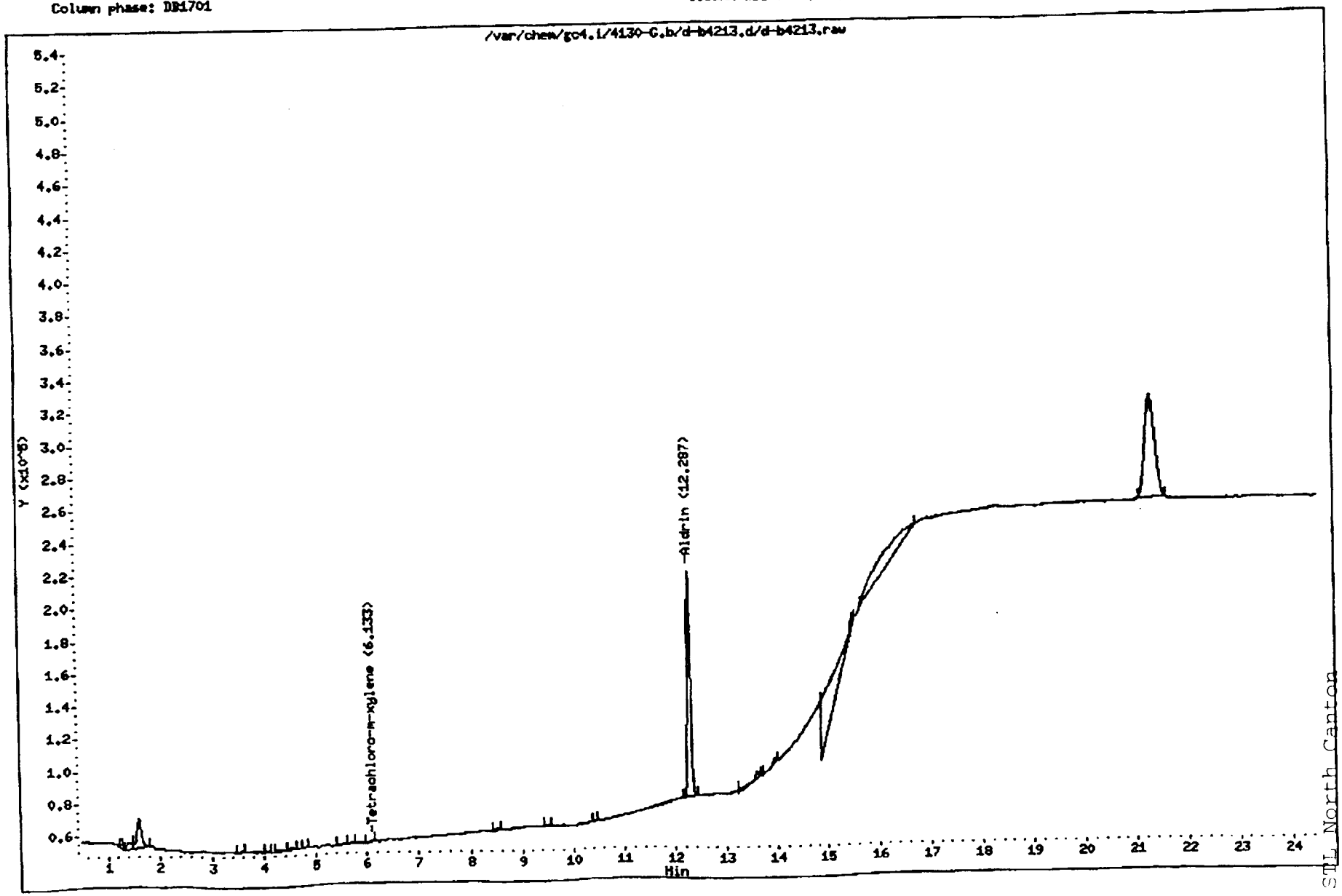
Operator: 01891
Column diameter: 0.53



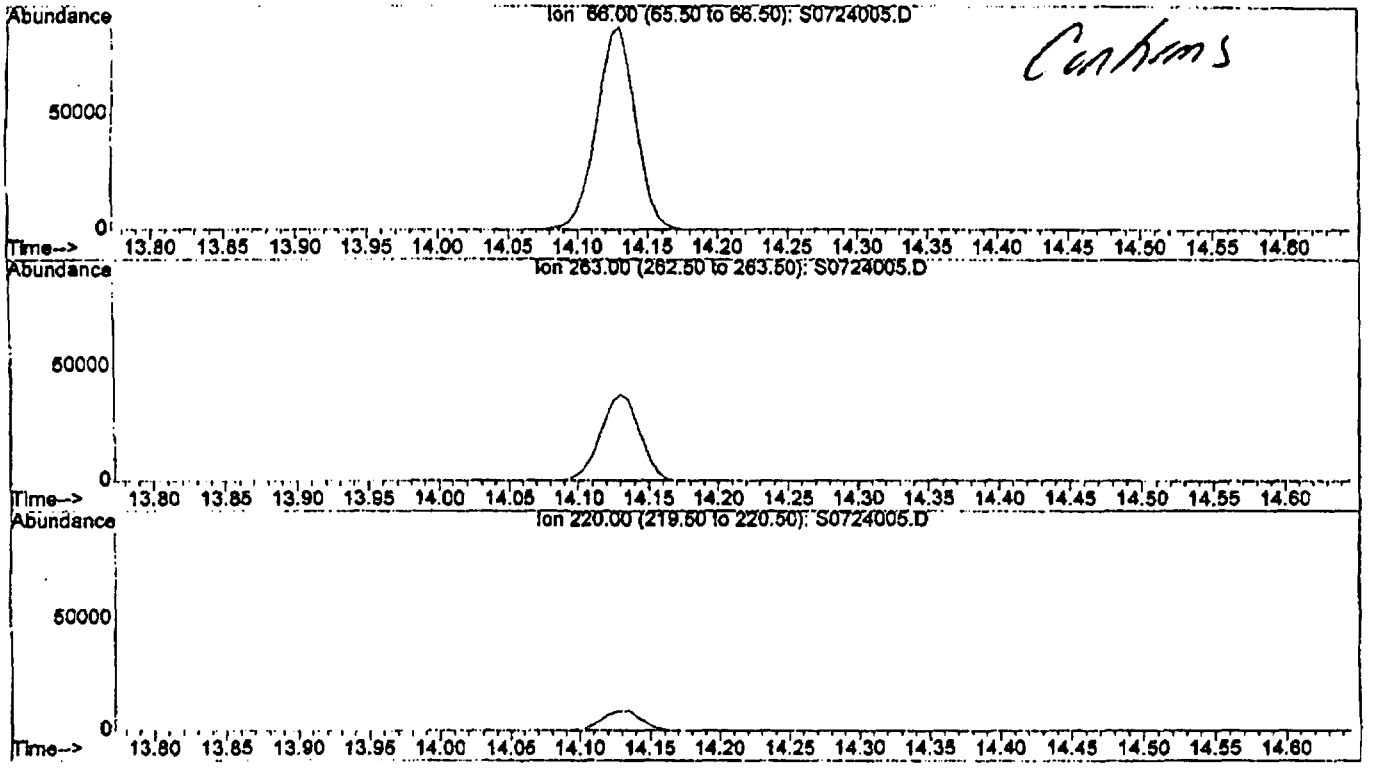
Data File: /var/chem/go4.i/4130-G.b/d-b4213.d
Date : 14-JUL-2000 07:00
Client ID: SL17-1.0DIL
Sample Info: DFQQ5203,4130-G.b,,all.sub,100,,
Volume Injected (uL): 1.0
Column phase: DB1701

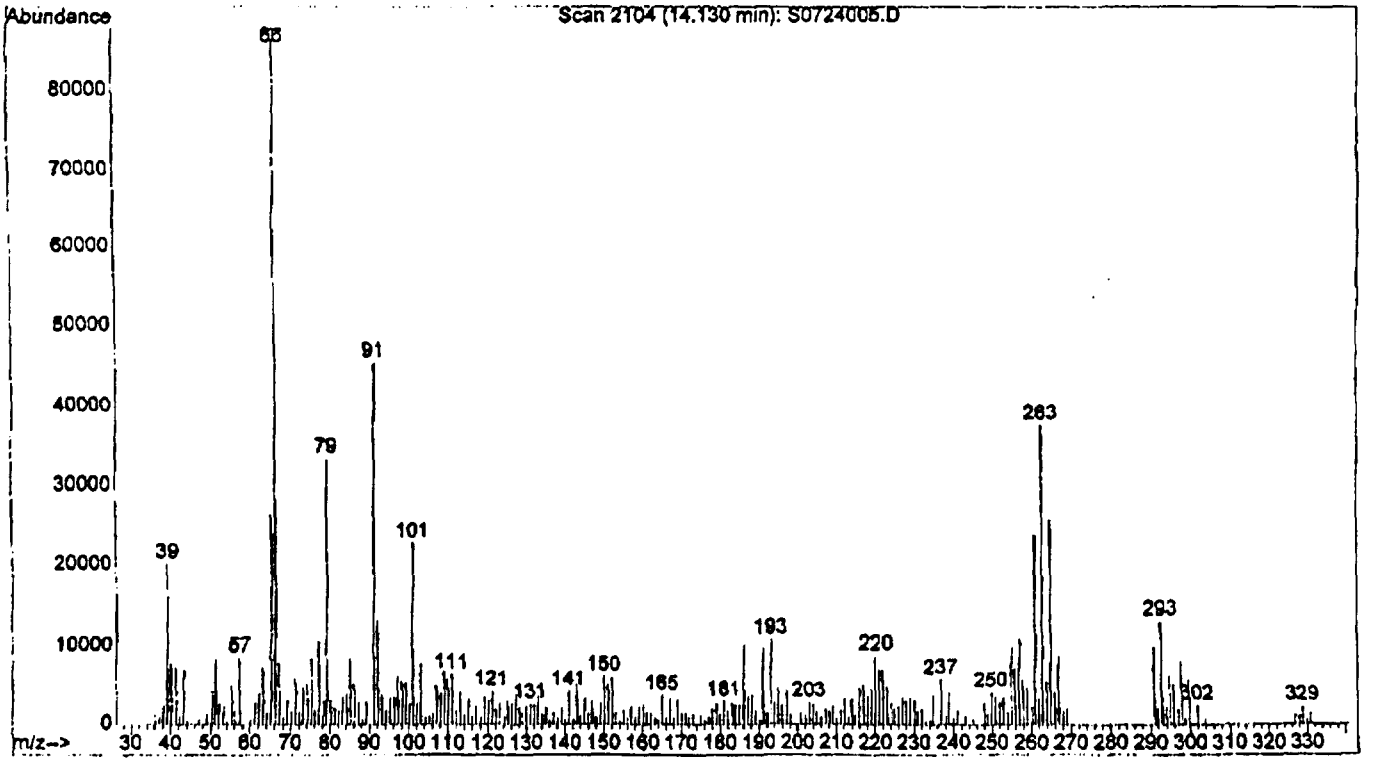
Instrument: go4.i

Operator: 01891
Column diameter: 0.53



File : D:\HPCHEM\1\DATA\S072400.B\S0724005.D
Operator : 045183
Acquired : 24 Jul 2000 11:28 pm using AcqMethod LATE
Instrument : GC/MS Ins
Sample Name: a0g060146-008 7/11/00 aldrin confirmation
Misc Info : 008,s072400.b,8270clp.m,1-8270l.sub
Vial Number: 8





10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SL17-1.0DIL

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: 40325 SDG No.: G06146

Lab Sample ID: DFQQ5203DIL Date(s) Analyzed: 07/14/00 07/14/00

Instrument ID (1): GC4 Instrument ID (2): GC4

GC Column(1): DB608 ID: 0.53(mm) GC Column(2): DB1701 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
Aldrin	1	12.35	12.30	12.40	15840	
	2	12.29	12.23	12.33	15440	2.6
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1 OLM03.0

RMT

Lab Name:Severn Trent Laboratories, Inc. SDG Number:G06146

Matrix: (soil/water) SO Lab Sample ID:A0G060146 009
Method: OCLP OLM03.1
Pesticides/PCB (CLP-OLM03.1)

Sample WT/Vol: 30 / g Date Received: 07/06/00
Work Order: DFQQ9103 Date Extracted:07/11/00
Dilution factor: 50 Date Analyzed: 07/14/00
Moisture %:26

QC Batch: 0193481

Client Sample Id: SL17-3.0'

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	8300	PEC
5103-71-9	alpha-Chlordane	110	U
5103-74-2	gamma-Chlordane	~~120~~ 58	~~U~~ J
60-57-1	Dieldrin	~~220~~ 140	~~U~~ J
76-44-8	Heptachlor	110	U
1024-57-3	Heptachlor epoxide	110	U
8001-35-2	Toxaphene	11000	U

VM 7/24/00

FORM I

STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-a4214.d
Lab Smp Id: DFQQ9103 Client Smp ID: SL17-3.0
Inj Date : 14-JUL-2000 07:27
Operator : 01891 Inst ID: gc4.i
Smp Info : DFQQ9103,4130-G.b,,all.sub,50,,
Misc Info : 060146-9
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4A.m
Meth Date : 14-Jul-2000 10:10 matkol Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-a4199.d
Als bottle: 1
Dil Factor: 50.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.40 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	50.000	Dilution Factor
Uf	2.000	GPC Correction factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.000	% Moisture

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
Compound Not Detected							
2 Aroclor-1221					CAS #: 11104-28-2		
Peaks not detected for Quant. or Qual. signal(s).							

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

3 Aroclor-1232 CAS #: 11141-16-5

Peaks not detected for Quant. or Qual. signal(s).

---

4 Aroclor-1016 CAS #: 12674-11-2

Peaks not detected for Quant. or Qual. signal(s).

---

5 alpha-BHC CAS #: 319-84-6

Compound Not Detected

---

6 Aroclor-1242 CAS #: 53469-21-9

Peaks not detected for Quant. or Qual. signal(s).

---

7 gamma-BHC(Lindane) CAS #: 58-89-9

Compound Not Detected

---

8 beta-BHC CAS #: 319-85-7

Compound Not Detected

---

9 Heptachlor CAS #: 76-44-8

Compound Not Detected

---

10 Aroclor-1248 CAS #: 12672-29-6

Peaks not detected for Quant. or Qual. signal(s).

---

11 delta-BHC CAS #: 319-86-8

Compound Not Detected

---

12 Aldrin CAS #: 309-00-2

12.393	12.352	0.041	953371	0.36710	6118	80.00- 120.00	100.00(A)

---

13 Heptachlor epoxide CAS #: 1024-57-3

Compound Not Detected

---

14 gamma-Chlordane CAS #: 5103-74-2

14.551	14.551	0.002	9433	0.00298	49.72	80.00- 120.00	100.00(m)

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
15 Aroclor-1254					CAS #: 11097-69-1		

Peaks not detected for Quant. or Qual. signal(s).

---

16 alpha-Chlordane					CAS #: 5103-71-9		

Compound Not Detected

---

17 Endosulfan I					CAS #: 959-98-8		

Compound Not Detected

---

19 4,4'-DDE					CAS #: 72-55-9		

Compound Not Detected

---

20 Dieldrin					CAS #: 60-57-1		
15.540	15.545	-0.005	23760	0.00643	107.1	80.00- 120.00	100.00(m)

---

21 Aroclor-1260					CAS #: 11096-82-5		

Peaks not detected for Quant. or Qual. signal(s).

---

22 Endrin					CAS #: 72-20-8		

Compound Not Detected

---

23 4,4'-DDD					CAS #: 72-54-8		

Compound Not Detected

---

18 Toxaphene					CAS #: 8001-35-2		

Peaks not detected for Quant. or Qual. signal(s).

---

24 Endosulfan II					CAS #: 33213-65-9		

Compound Not Detected

---

25 4,4'-DDT					CAS #: 50-29-3		

Compound Not Detected

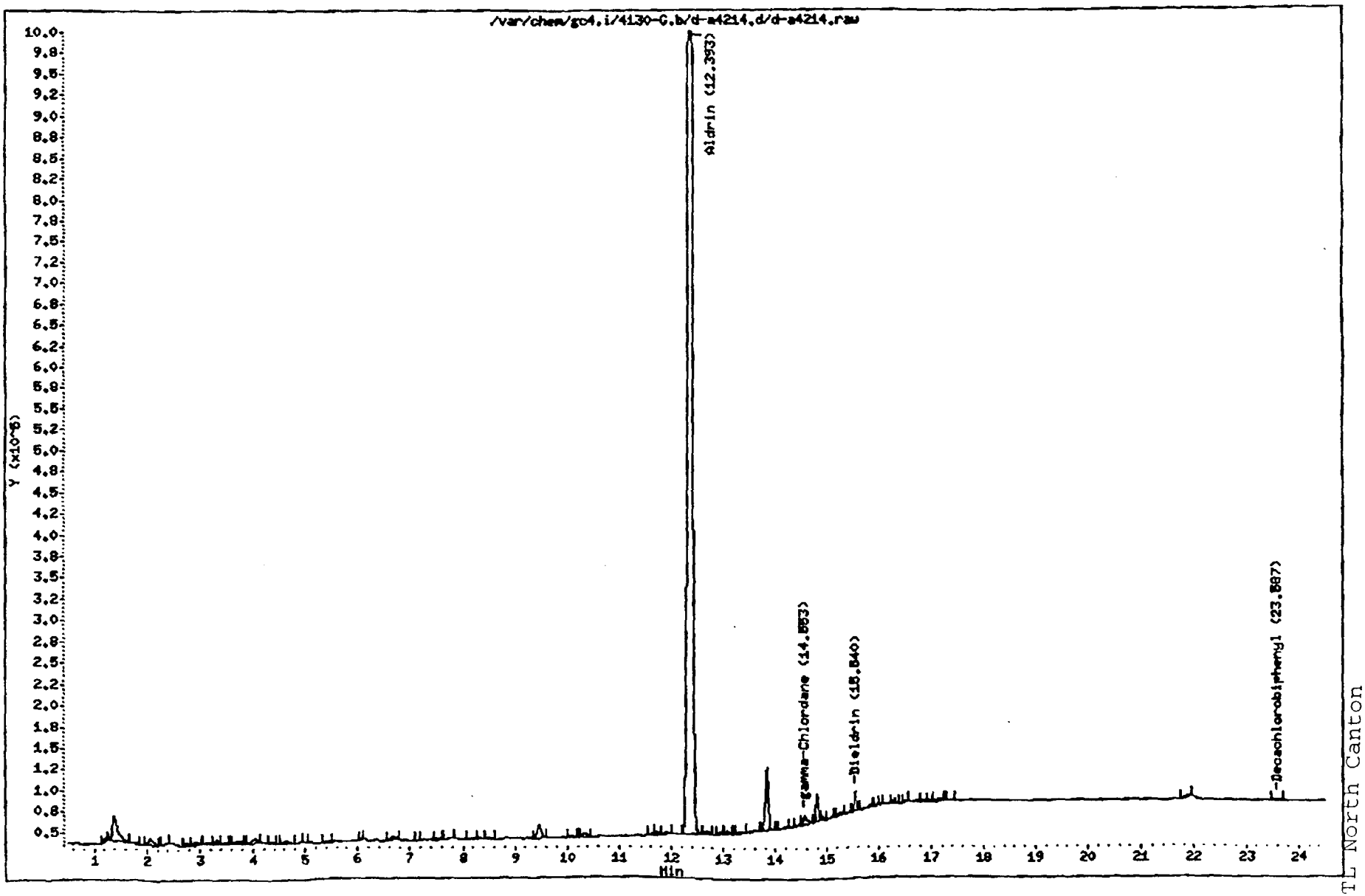
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
26 Endrin aldehyde					CAS #: 7421-93-4		
Compound Not Detected							
27 Endosulfan sulfate					CAS #: 1031-07-8		
Compound Not Detected							
28 Methoxychlor					CAS #: 72-43-5		
Compound Not Detected							
29 Endrin ketone					CAS #: 53494-70-5		
Compound Not Detected							
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
23.587	23.587	0.000	1839	0.00105	17.49	80.00- 120.00	100.00

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.

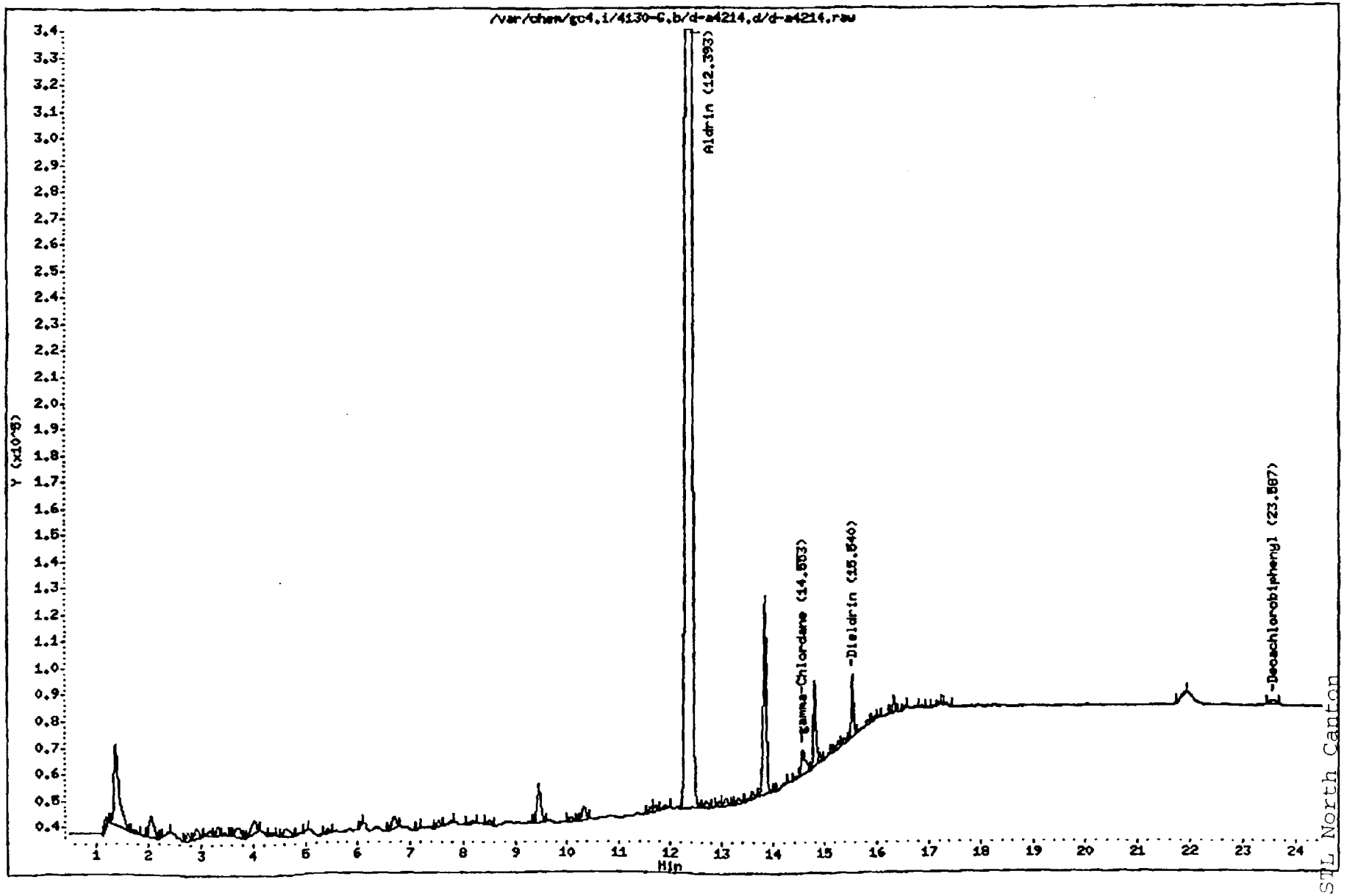
Data File: /var/chem/go4.i/4130-C.b/d-a4214.d
Date : 14-JUL-2000 07:27
Client ID: SL17-3.0
Sample Info: DFQQ9103,4130-C.b,,all.sub,50,,
Volume Injected (uL): 1.0
Column phase: DB608

Instrument: go4.i
Operator: 01891
Column diameter: 0.53



Data File: /var/chem/gc4.i/4130-G.b/d-a4214.d
Date : 14-JUL-2000 07:27
Client ID: SL17-3.0
Sample Info: DFQQ9103,4130-G.b,,all,sub,50,,
Volume Injected (uL): 1.0
Column phase: DB608

Instrument: gc4.i
Operator: 01891
Column diameter: 0.53



STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-b4214.d
Lab Smp Id: DFQQ9103 Client Smp ID: SL17-3.0
Inj Date : 14-JUL-2000 07:27
Operator : 01891 Inst ID: gc4.i
Smp Info : DFQQ9103,4130-G.b,,all.sub,50,,
Misc Info : 060146-9
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4B.m
Meth Date : 14-Jul-2000 10:49 matkol Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-b4199.d
Als bottle: 1
Dil Factor: 50.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.40 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	50.000	Dilution Factor
Uf	2.000	GPC Correction factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.000	% Moisture

	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$	1 Tetrachloro-m-xylene					CAS #: 877-09-8		
	6.133	6.133	0.000	4371	0.00173	28.76	80.00- 120.00	100.00(R)
	2 Aroclor-1221					CAS #: 11104-28-2		

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

4 Aroclor-1232 CAS #: 11141-16-5

Peaks not detected for Quant. or Qual. signal(s).

---

5 alpha-BHC CAS #: 319-84-6

Compound Not Detected

---

3 Aroclor-1016 CAS #: 12674-11-2

Peaks not detected for Quant. or Qual. signal(s).

---

8 Aroclor-1242 CAS #: 53469-21-9

Peaks not detected for Quant. or Qual. signal(s).

---

6 gamma-BHC(Lindane) CAS #: 58-89-9

Compound Not Detected

---

9 Aroclor-1248 CAS #: 12672-29-6

Peaks not detected for Quant. or Qual. signal(s).

---

7 Heptachlor CAS #: 76-44-8

Compound Not Detected

---

10 Aldrin CAS #: 309-00-2

12.327	12.280	0.047	6492775	0.51646	8608	80.00- 120.00	100.00(A)

---

11 beta-BHC CAS #: 319-85-7

Compound Not Detected

---

12 delta-BHC CAS #: 319-86-8

Compound Not Detected

---

13 Heptachlor epoxide CAS #: 1024-57-3

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
14 Aroclor-1254					CAS #: 11097-69-1		
Peaks not detected for Quant. or Qual. signal(s).							
15 Endosulfan I					CAS #: 959-98-8		
Compound Not Detected							
16 gamma-Chlordane					CAS #: 5103-74-2		
14.973	14.972	0.001	8654	0.00257	42.89	80.00- 120.00	100.00(a)
17 alpha-Chlordane					CAS #: 5103-71-9		
Compound Not Detected							
18 4,4'-DDE					CAS #: 72-55-9		
Compound Not Detected							
19 Dieldrin					CAS #: 60-57-1		
15.567	15.565	0.002	26272	0.00689	114.8	80.00- 120.00	100.00(a)
21 Aroclor-1260					CAS #: 11096-82-5		
Peaks not detected for Quant. or Qual. signal(s).							
22 Endrin					CAS #: 72-20-8		
Compound Not Detected							
20 Toxaphene					CAS #: 8001-35-2		
Peaks not detected for Quant. or Qual. signal(s).							
23 4,4'-DDD					CAS #: 72-54-8		
Compound Not Detected							
24 Endosulfan II					CAS #: 33213-65-9		
Compound Not Detected							

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

25 4,4'-DDT CAS #: 50-29-3

Compound Not Detected

---

26 Endrin aldehyde CAS #: 7421-93-4

Compound Not Detected

---

28 Methoxychlor CAS #: 72-43-5

Compound Not Detected

---

27 Endosulfan sulfate CAS #: 1031-07-8

Compound Not Detected

---

29 Endrin ketone CAS #: 53494-70-5

Compound Not Detected

$ 30 Decachlorobiphenyl CAS #: 2051-24-3

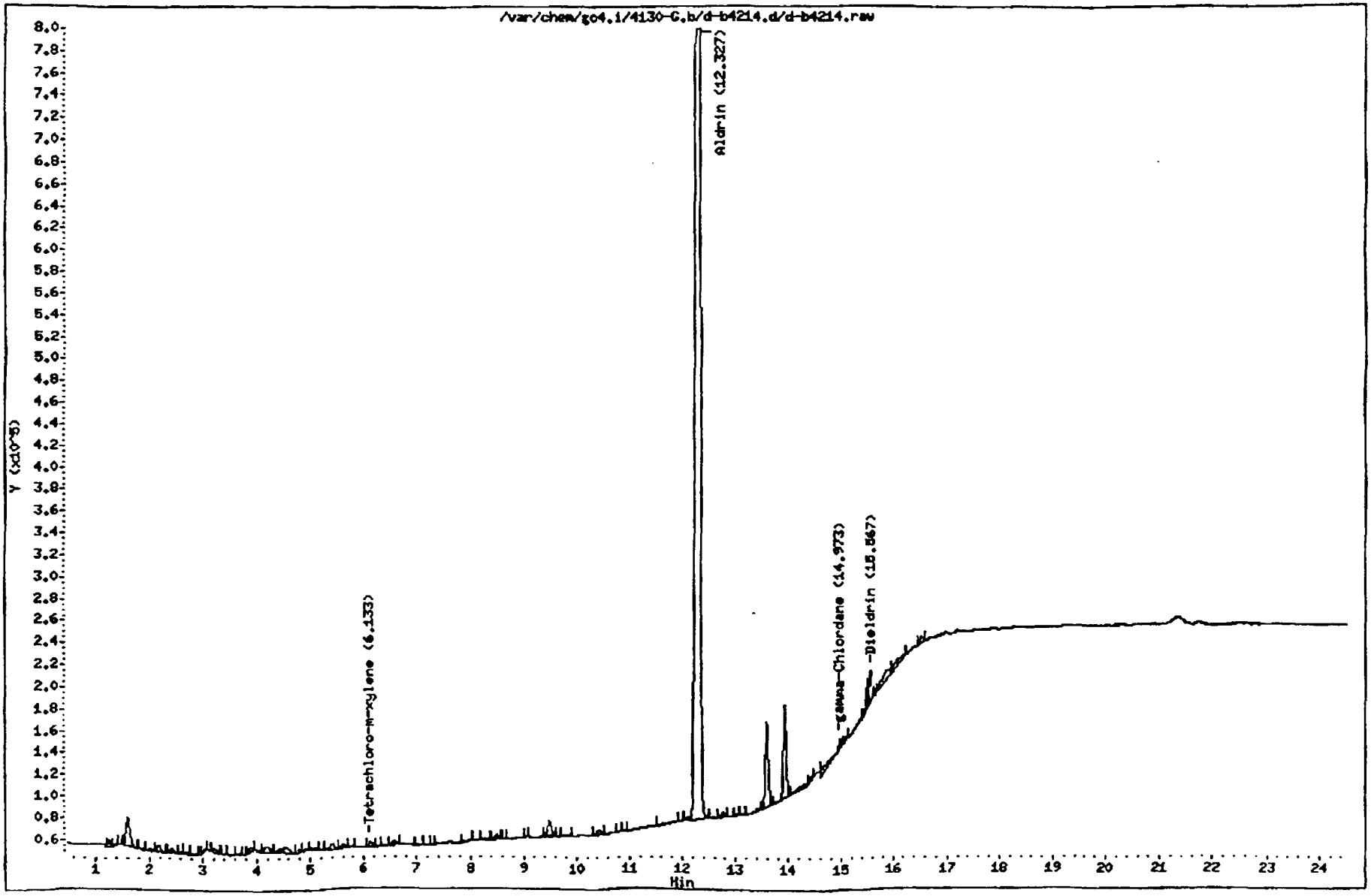
Compound Not Detected

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gc4.i/4130-G.b/d-b4214.d
Date : 14-JUL-2000 07:27
Client ID: SL17-3.0
Sample Info: DFQQ9103,4130-G.b,,all,sub,50,,
Volume Injected (uL): 1.0
Column phase: DB1701

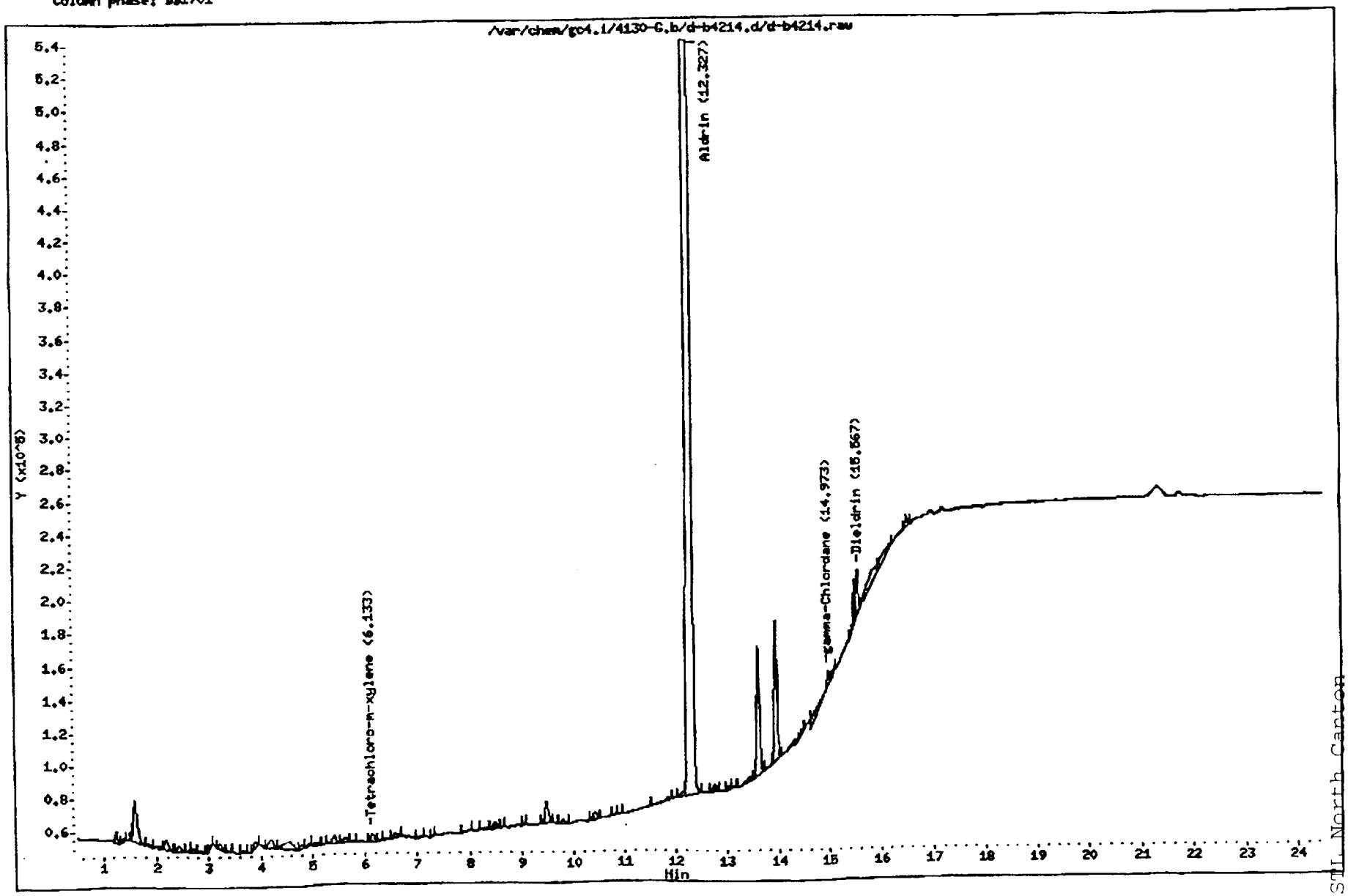
Instrument: gc4.i
Operator: 01891
Column diameter: 0.53



Data File: /var/chem/go4.i/4130-G.b/d-b4214.d
Date : 14-JUL-2000 07:27
Client ID: SL17-3.0
Sample Info: DFQQ9103,4130-G.b,,all,sub,50,,
Volume Injected (uL): 1.0
Column phase: DB1701

Instrument: go4.i

Operator: 01891
Column diameter: 0.53



10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SL17-3.0

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: 40325 SDG No.: G06146

Lab Sample ID: DFQQ9103 Date(s) Analyzed: 07/14/00 07/14/00

Instrument ID (1): GC4 Instrument ID (2): GC4

GC Column(1): DB608 ID: 0.53(mm) GC Column(2): DB1701 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
Aldrin	1	12.39	12.30	12.40	6118	
	2	12.33	12.23	12.33	8608	40.7
Dieldrin	1	15.54	15.47	15.61	107.1	
	2	15.57	15.50	15.64	114.8	7.2
gamma-Chlordane	1	14.55	14.48	14.62	49.72	
	2	14.97	14.90	15.04	42.89	15.9
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

RMT

Lab Name:Severn Trent Laboratories, Inc. SDG Number:G06146

Matrix: (soil/water) SO Lab Sample ID:A0G060146 009
Method: OCLP OLM03.1
Pesticides/PCB (CLP-OLM03.1)

Sample WT/Vol: 30 / g Date Received: 07/06/00
Work Order: DFQQ9203 Date Extracted:07/11/00
Dilution factor: 500 Date Analyzed: 07/14/00
Moisture %:26

QC Batch: 0193481

Client Sample Id: SL17-3.0' -RE 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	18000	C
5103-71-9	alpha-Chlordane	1100	U
5103-74-2	gamma-Chlordane	1100	U
60-57-1	Dieldrin	2200	U
76-44-8	Heptachlor	1100	U
1024-57-3	Heptachlor epoxide	1100	U
8001-35-2	Toxaphene	110000	U

FORM I

STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-a4215.d
Lab Smp Id: DFQQ9203DIL Client Smp ID: SL17-3.0DIL
Inj Date : 14-JUL-2000 07:55
Operator : 01891 Inst ID: gc4.i
Smp Info : DFQQ9203,4130-G.b,,all.sub,50,,
Misc Info : 060146-9DI
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4A.m
Meth Date : 14-Jul-2000 10:10 matkol Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-a4199.d
Als bottle: 1
Dil Factor: 500.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.40 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	500.000	Dilution Factor
Uf	2.000	GPC Correction factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.000	% Moisture

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
Compound Not Detected							
2 Aroclor-1221					CAS #: 11104-28-2		
Peaks not detected for Quant. or Qual. signal(s).							

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

3 Aroclor-1232 CAS #: 11141-16-5

Peaks not detected for Quant. or Qual. signal(s).

---

4 Aroclor-1016 CAS #: 12674-11-2

Peaks not detected for Quant. or Qual. signal(s).

---

5 alpha-BHC CAS #: 319-84-6

Compound Not Detected

---

6 Aroclor-1242 CAS #: 53469-21-9

Peaks not detected for Quant. or Qual. signal(s).

---

7 gamma-BHC(Lindane) CAS #: 58-89-9

Compound Not Detected

---

8 beta-BHC CAS #: 319-85-7

Compound Not Detected

---

9 Heptachlor CAS #: 76-44-8

Compound Not Detected

---

10 Aroclor-1248 CAS #: 12672-29-6

Peaks not detected for Quant. or Qual. signal(s).

---

11 delta-BHC CAS #: 319-86-8

Compound Not Detected

---

12 Aldrin CAS #: 309-00-2

12.360	12.352	0.008	211145	0.06130	13550	80.00- 120.00	100.00(A)

---

13 Heptachlor epoxide CAS #: 1024-57-3

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
14 gamma-Chlordane					CAS #: 5103-74-2		

Compound Not Detected

---

15 Aroclor-1254	CAS #: 11097-69-1

Peaks not detected for Quant. or Qual. signal(s).

---

16 alpha-Chlordane	CAS #: 5103-71-9

Compound Not Detected

---

17 Endosulfan I	CAS #: 959-98-8

Compound Not Detected

---

19 4,4'-DDE	CAS #: 72-55-9

Compound Not Detected

---

20 Dieldrin	CAS #: 60-57-1

Compound Not Detected

---

21 Aroclor-1260	CAS #: 11096-82-5

Peaks not detected for Quant. or Qual. signal(s).

---

22 Endrin	CAS #: 72-20-8

Compound Not Detected

---

23 4,4'-DDD	CAS #: 72-54-8

Compound Not Detected

---

18 Toxaphene	CAS #: 8001-35-2

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
24 Endosulfan II					CAS #: 33213-65-9		
Compound Not Detected							
25 4,4'-DDT					CAS #: 50-29-3		
Compound Not Detected							
26 Endrin aldehyde					CAS #: 7421-93-4		
Compound Not Detected							
27 Endosulfan sulfate					CAS #: 1031-07-8		
Compound Not Detected							
28 Methoxychlor					CAS #: 72-43-5		
Compound Not Detected							
29 Endrin ketone					CAS #: 53494-70-5		
Compound Not Detected							
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
Compound Not Detected							

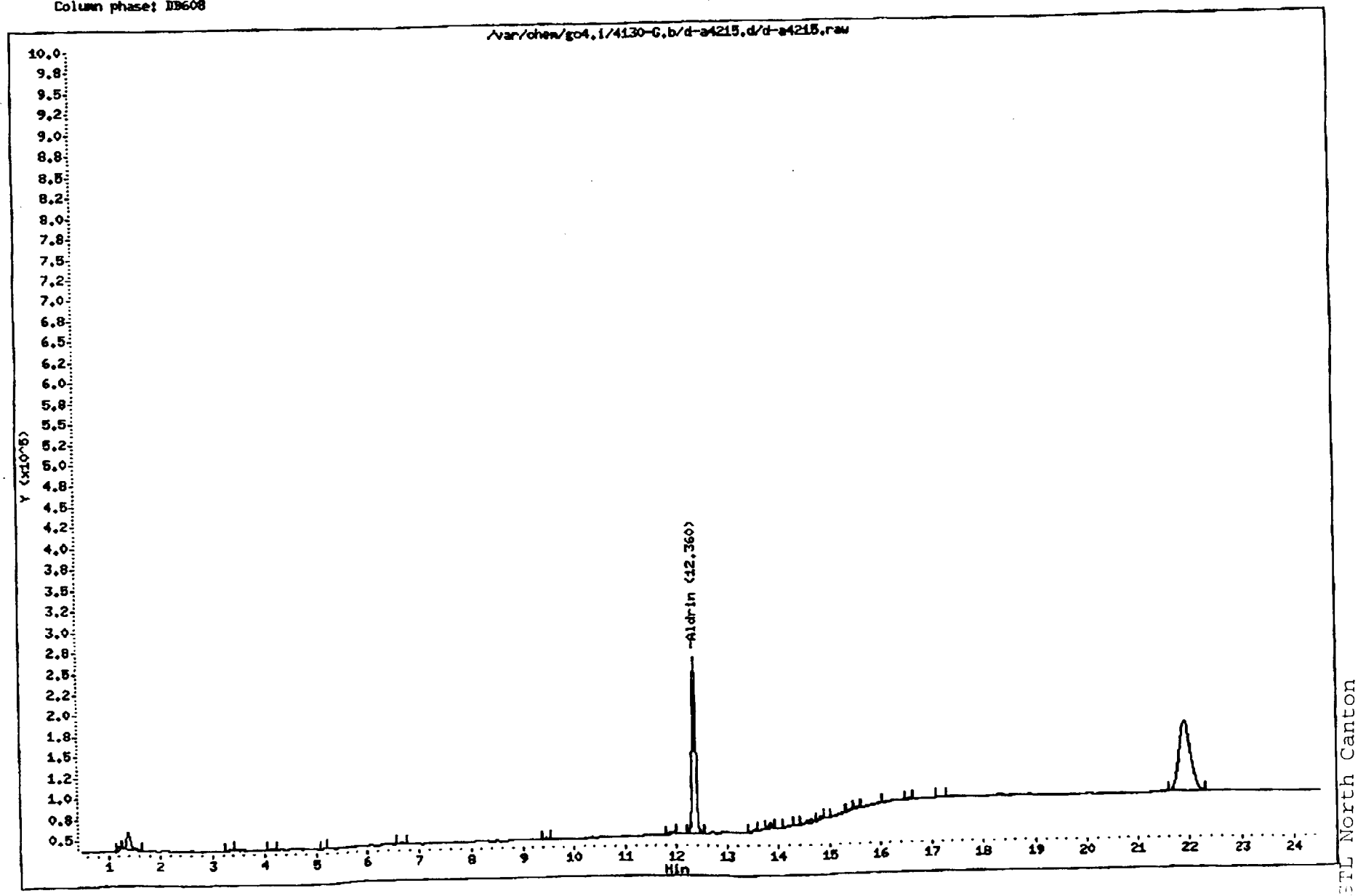
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /var/chem/gc4.i/4130-G.b/d-a4215.d
Date : 14-JUL-2000 07:55
Client ID: SL17-3.0DIL
Sample Info: BFQQ9203,4130-G.b,,all.sub,50,,
Volume Injected (uL): 1.0
Column phase: DB608

Instrument: gc4.i

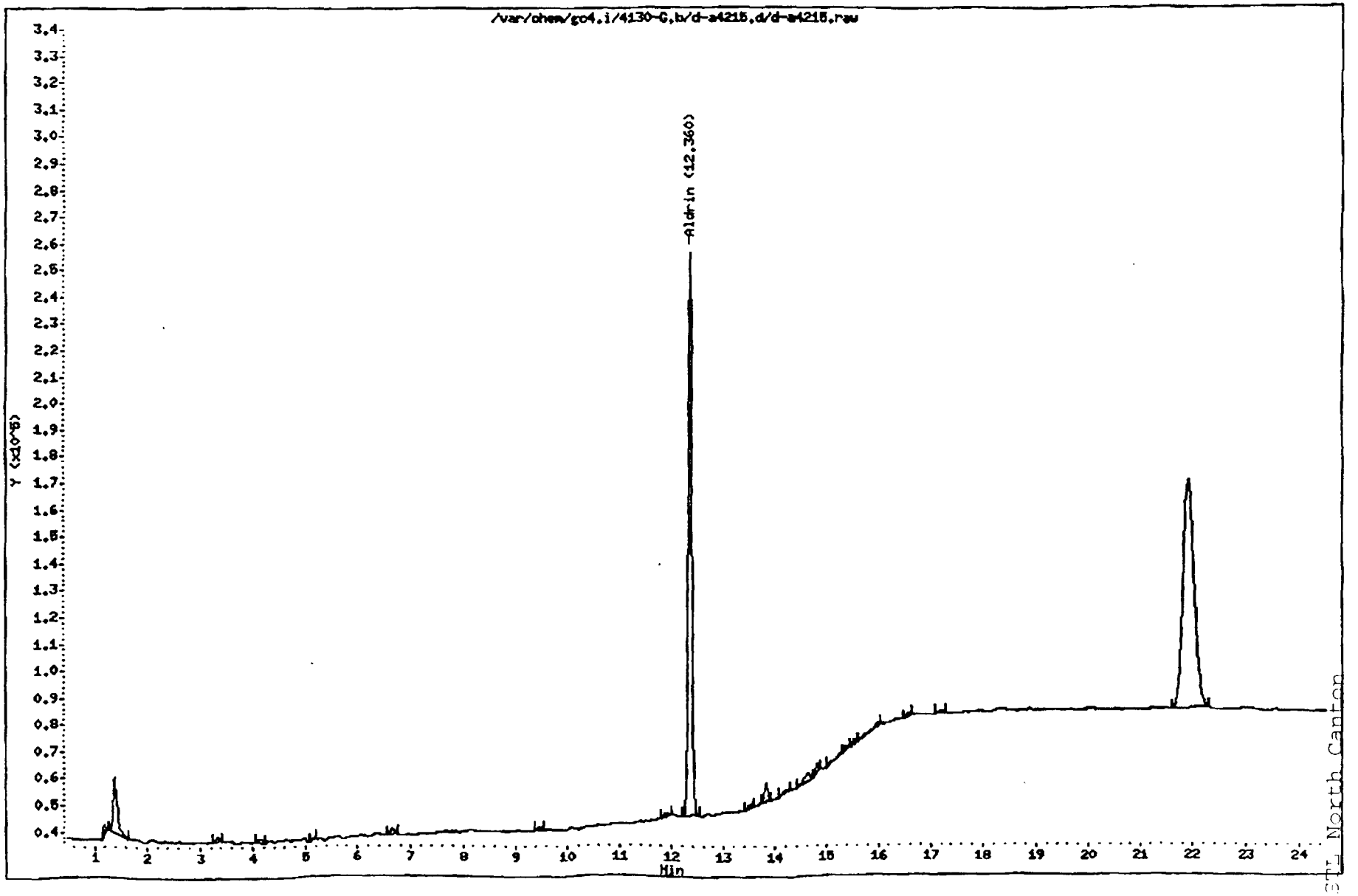
Operator: 01891
Column diameter: 0.53



Data File: /var/chem/gc4.i/4130-G.b/d-a4215.d
Date : 14-JUL-2000 07:55
Client ID: SL17-3.0DIL
Sample Info: DFQQ9203,4130-G.b,,all.sub,50,,
Volume Injected (uL): 1.0
Column phase: DB608

Instrument: gc4.i

Operator: 01891
Column diameter: 0.53



STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-b4215.d
Lab Smp Id: DFQQ9203DIL Client Smp ID: SL17-3.0DIL
Inj Date : 14-JUL-2000 07:55
Operator : 01891 Inst ID: gc4.i
Smp Info : DFQQ9203,4130-G.b,,all.sub,50,,
Misc Info : 060146-9DI
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4B.m
Meth Date : 14-Jul-2000 10:49 matkol Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-b4199.d
Als bottle: 1
Dil Factor: 500.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.40 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	500.000	Dilution Factor
Uf	2.000	GPC Correction factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.000	% Moisture

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.133	6.133	0.000	283	0.000112	18.62	80.00- 120.00	100.00
2 Aroclor-1221					CAS #: 11104-28-2		

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

4 Aroclor-1232 CAS #: 11141-16-5

Peaks not detected for Quant. or Qual. signal(s).

---

5 alpha-BHC CAS #: 319-84-6

Compound Not Detected

---

3 Aroclor-1016 CAS #: 12674-11-2

Peaks not detected for Quant. or Qual. signal(s).

---

8 Aroclor-1242 CAS #: 53469-21-9

Peaks not detected for Quant. or Qual. signal(s).

---

6 gamma-BHC(Lindane) CAS #: 58-89-9

Compound Not Detected

---

9 Aroclor-1248 CAS #: 12672-29-6

Peaks not detected for Quant. or Qual. signal(s).

---

7 Heptachlor CAS #: 76-44-8

Compound Not Detected

---

10 Aldrin CAS #: 309-00-2

12.287	12.280	0.007	1008602	0.08023	13370	80.00- 120.00	100.00(A)

---

11 beta-BHC CAS #: 319-85-7

Compound Not Detected

---

12 delta-BHC CAS #: 319-86-8

Compound Not Detected

---

13 Heptachlor epoxide CAS #: 1024-57-3

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

14 Aroclor-1254 CAS #: 11097-69-1

Peaks not detected for Quant. or Qual. signal(s).

---

15 Endosulfan I CAS #: 959-98-8

Compound Not Detected

---

16 gamma-Chlordane CAS #: 5103-74-2

Compound Not Detected

---

17 alpha-Chlordane CAS #: 5103-71-9

Compound Not Detected

---

18 4,4'-DDE CAS #: 72-55-9

Compound Not Detected

---

19 Dieldrin CAS #: 60-57-1

Compound Not Detected

---

21 Aroclor-1260 CAS #: 11096-82-5

Peaks not detected for Quant. or Qual. signal(s).

---

22 Endrin CAS #: 72-20-8

Compound Not Detected

---

20 Toxaphene CAS #: 8001-35-2

Peaks not detected for Quant. or Qual. signal(s).

---

23 4,4'-DDD CAS #: 72-54-8

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
24 Endosulfan II					CAS #: 33213-65-9		
Compound Not Detected							
25 4,4'-DDT					CAS #: 50-29-3		
Compound Not Detected							
26 Endrin aldehyde					CAS #: 7421-93-4		
Compound Not Detected							
28 Methoxychlor					CAS #: 72-43-5		
Compound Not Detected							
27 Endosulfan sulfate					CAS #: 1031-07-8		
Compound Not Detected							
29 Endrin ketone					CAS #: 53494-70-5		
Compound Not Detected							
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
Compound Not Detected							

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /var/chem/gc4.i/4130-G.b/d-b4215.d

Page 5

Date : 14-JUL-2000 07:56

Client ID: SL17-3.0DIL

Instrument: gc4.i

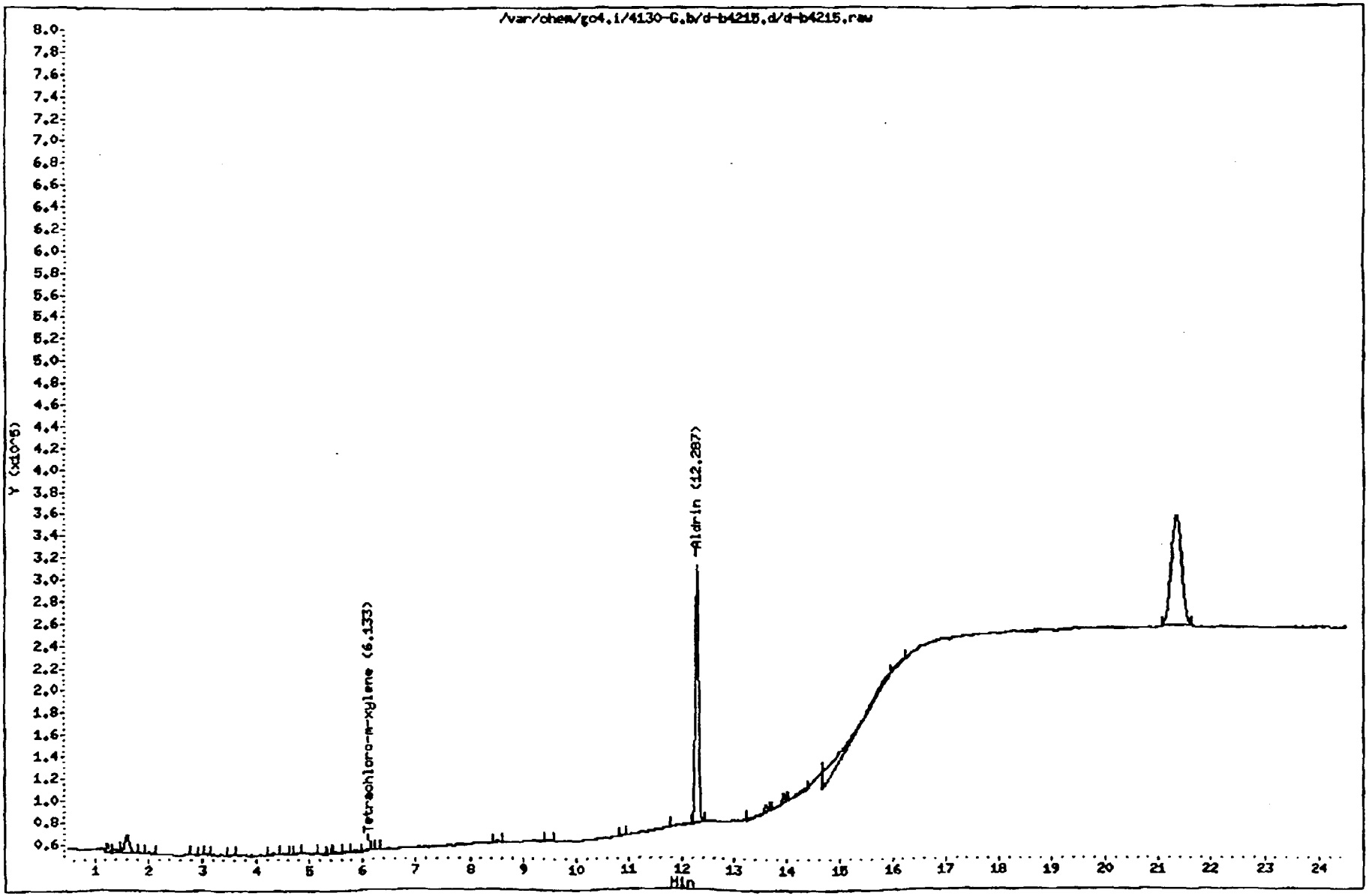
Sample Info: DFQQ9203,4130-G.b,,all.sub,50,,

Volume Injected (uL): 1.0

Operator: 01891

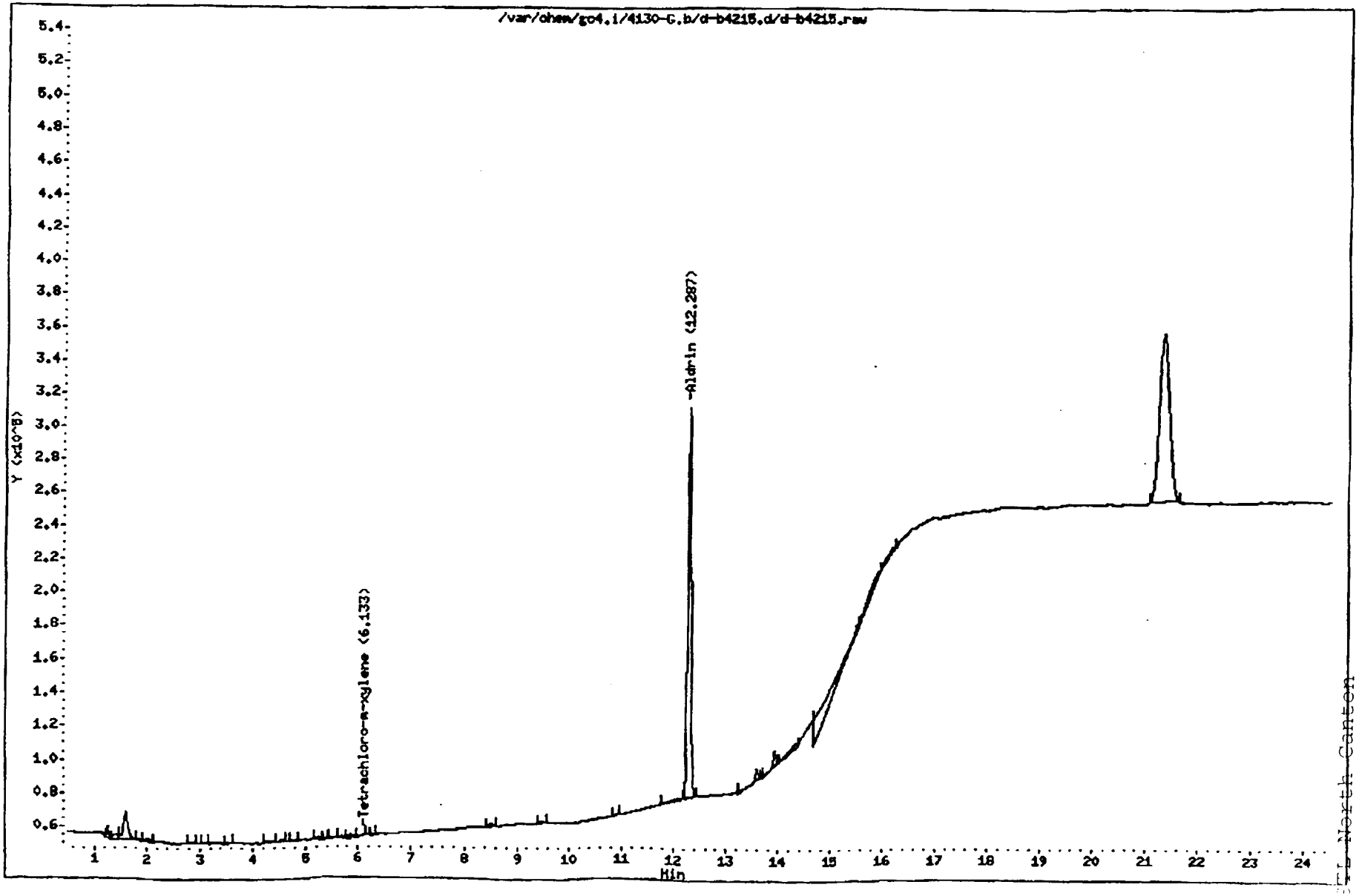
Column phase: DB1701

Column diameter: 0.53

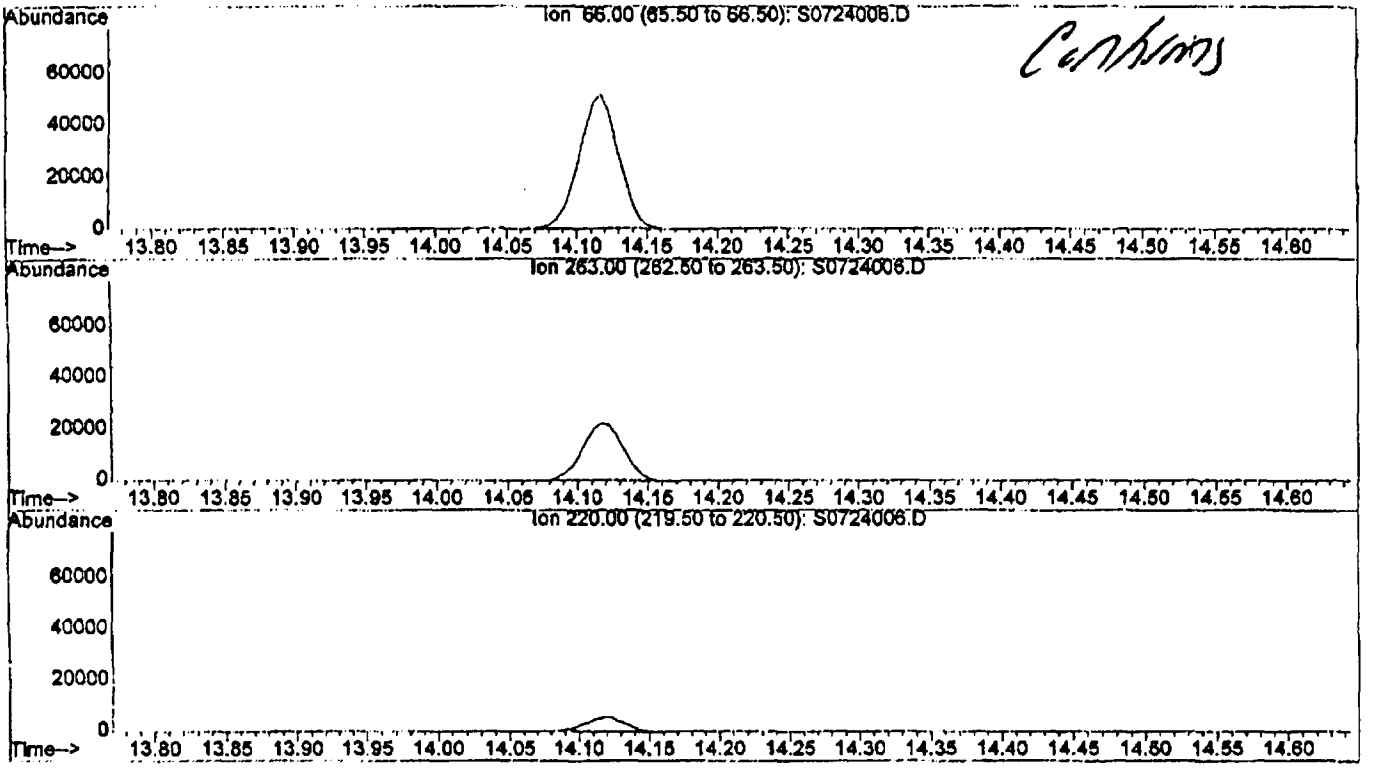


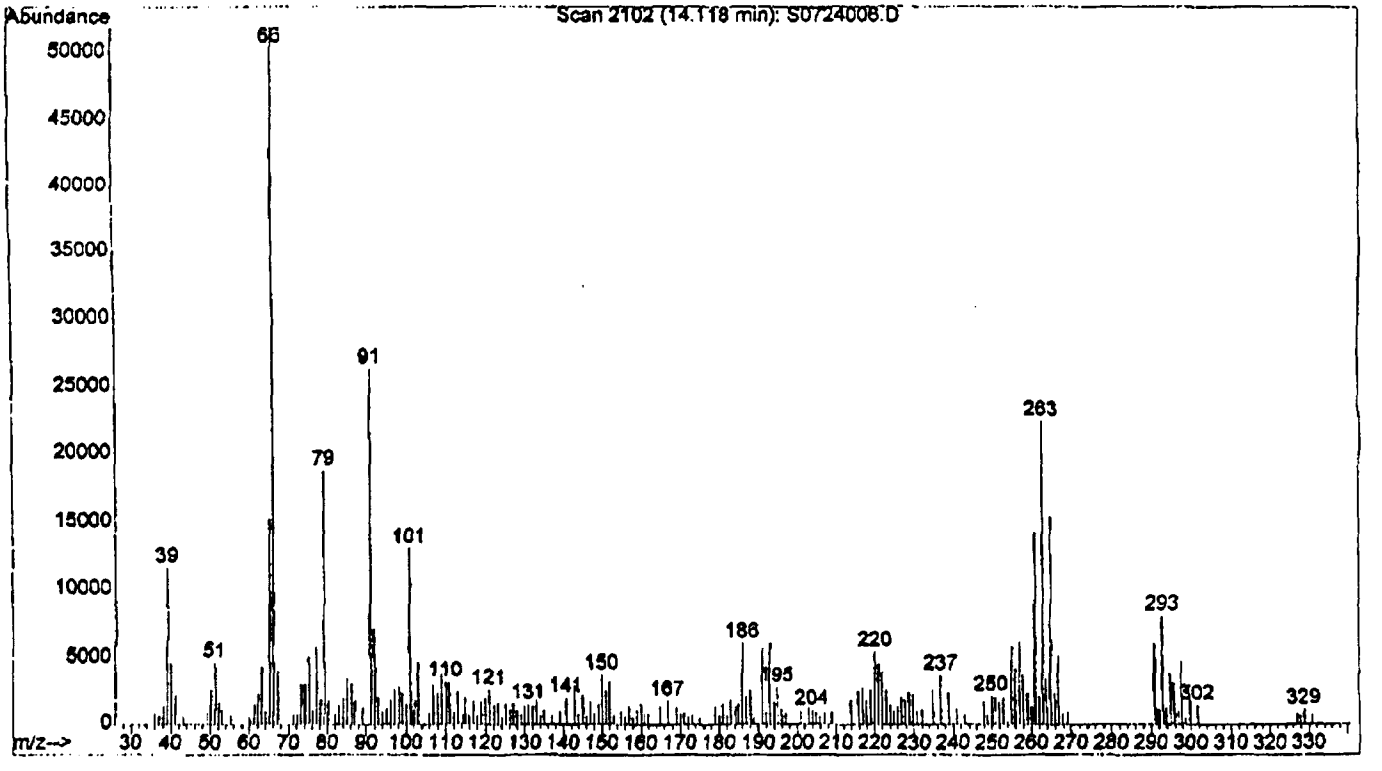
Data File: /var/chem/go4.i/4130-G.b/d-b4215.d
Date : 14-JUL-2000 07:55
Client ID: SL17-3.0DIL
Sample Info: DFQQ9203,4130-G.b,,all.sub,50,,
Volume Injected (uL): 1.0
Column phase: DB1701

Instrument: go4.i
Operator: 01891
Column diameter: 0.53



File : D:\HPCHEM\1\DATA\S072400.B\S0724006.D
Operator : 045183
Acquired : 24 Jul 2000 11:59 pm using AcqMethod LATE
Instrument : GC/MS Ins
Sample Name: a0g060146-009 7/11/00 aldrin confirmation
Misc Info : 009,s072400.b,8270clp.m,1-8270l.sub
Vial Number: 9





10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SL17-3.0DIL

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: 40325 SDG No.: G06146

Lab Sample ID: DFQQ9203DIL Date(s) Analyzed: 07/14/00 07/14/00

Instrument ID (1): GC4 Instrument ID (2): GC4

GC Column(1): DB608 ID: 0.53(mm) GC Column(2): DB1701 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
Aldrin	1	12.36	12.30	12.40	13550	
	2	12.29	12.23	12.33	13370	1.3
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

RMT

Lab Name:Severn Trent Laboratories, Inc. SDG Number:G06146

Matrix: (soil/water) SO
Method: OCLP OLM03.1
Pesticides/PCB (CLP-OLM03.1)

Lab Sample ID:A0G060146 010

Sample WT/Vol: 30 / g
Work Order: DFQQC103
Dilution factor: 1
Moisture %:16

Date Received: 07/06/00
Date Extracted:07/11/00
Date Analyzed: 07/14/00

QC Batch: 0193481

Client Sample Id: SL18-2.5'

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	7.6	
5103-71-9	alpha-Chlordane	4.1	
5103-74-2	gamma-Chlordane	9.9	
60-57-1	Dieldrin	26	
76-44-8	Heptachlor	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
8001-35-2	Toxaphene	200	U

FORM I

STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-a4216.d
Lab Smp Id: DFQQC103 Client Smp ID: SL18-2.5
Inj Date : 14-JUL-2000 08:23
Operator : 01891 Inst ID: gc4.i
Smp Info : DFQQC103,4130-G.b,,all.sub,,,
Misc Info : 060146-10
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4A.m
Meth Date : 14-Jul-2000 10:10 matkol Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-a4199.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.40 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	GPC Correction factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.000	% Moisture

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.140	6.140	0.000	101727	0.02901	9.669	80.00- 120.00	100.00
2 Aroclor-1221					CAS #: 11104-28-2		

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
3 Aroclor-1232					CAS #: 11141-16-5		

Peaks not detected for Quant. or Qual. signal(s).

---

4 Aroclor-1016 CAS #: 12674-11-2

Peaks not detected for Quant. or Qual. signal(s).

---

5 alpha-BHC CAS #: 319-84-6

Compound Not Detected

---

6 Aroclor-1242 CAS #: 53469-21-9

Peaks not detected for Quant. or Qual. signal(s).

---

7 gamma-BHC(Lindane) CAS #: 58-89-9

Compound Not Detected

---

8 beta-BHC CAS #: 319-85-7

Compound Not Detected

---

9 Heptachlor CAS #: 76-44-8

Compound Not Detected

---

10 Aroclor-1248 CAS #: 12672-29-6

Peaks not detected for Quant. or Qual. signal(s).

---

11 delta-BHC CAS #: 319-86-8

Compound Not Detected

---

12 Aldrin CAS #: 309-00-2

12.353	12.352	0.001	54302	0.02091	6.970	80.00- 120.00	100.00

---

13 Heptachlor epoxide CAS #: 1024-57-3

Compound Not Detected

---

14 gamma-Chlordane CAS #: 5103-74-2

14.547	14.551	-0.004	94850	0.03000	10.00	80.00- 120.00	100.00

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
15 Aroclor-1254					CAS #: 11097-69-1		

Operator disabled compound identification.

16 alpha-Chlordane					CAS #: 5103-71-9		
14.900	14.900	0.000	39877	0.01195	3.582	80.00- 120.00	100.00
17 Endosulfan I					CAS #: 959-98-8		
14.960	14.960	0.020	18727	0.00584	1.948	80.00- 120.00	100.00
19 4,4'-DDE					CAS #: 72-55-9		

Compound Not Detected

20 Dieldrin					CAS #: 60-57-1		
15.540	15.545	-0.005	244825	0.06622	22.07	80.00- 120.00	100.00
21 Aroclor-1260					CAS #: 11096-82-5		

Peaks not detected for Quant. or Qual. signal(s).

22 Endrin					CAS #: 72-20-8		

Compound Not Detected

23 4,4'-DDD					CAS #: 72-54-8		
16.327	16.327	0.000	32765	0.01087	3.625	80.00- 120.00	100.00
18 Toxaphene					CAS #: 8001-35-2		

Peaks not detected for Quant. or Qual. signal(s).

24 Endosulfan II					CAS #: 33213-65-9		

Compound Not Detected

25 4,4'-DDT					CAS #: 50-29-3		
16.887	16.888	-0.001	20447	0.00704	2.345	80.00- 120.00	100.00(a)
26 Endrin aldehyde					CAS #: 7421-93-4		
17.147	17.132	0.015	127722	0.05992	19.97	80.00- 120.00	100.00

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
27 Endosulfan sulfate					CAS #: 1031-07-8		
Compound Not Detected							
28 Methoxychlor					CAS #: 72-43-5		
Compound Not Detected							
29 Endrin ketone					CAS #: 53494-70-5		
Compound Not Detected							
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
23.580	23.587	-0.007	72934	0.04163	13.08	80.00- 120.00	100.00

QC Flag Legend

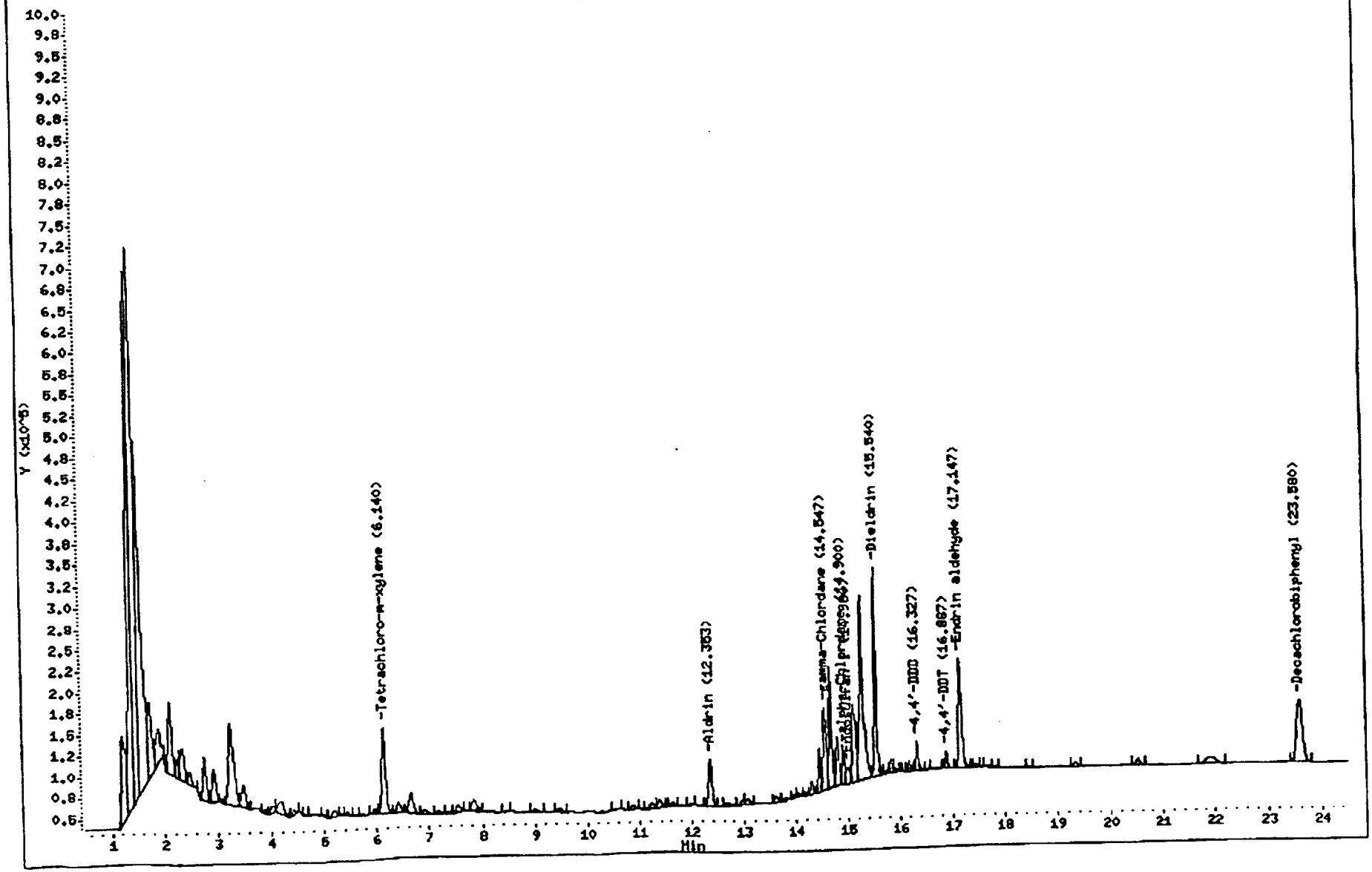
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: /var/chem/go4.i/4130-G.b/d-a4216.d
Date : 14-JUL-2000 08:23
Client ID: SL10-2.5
Sample Info: DFQQC103,4130-G.b,,all.sub,,,
Volume Injected (uL): 1.0
Column phase: DB608

Instrument: go4.i

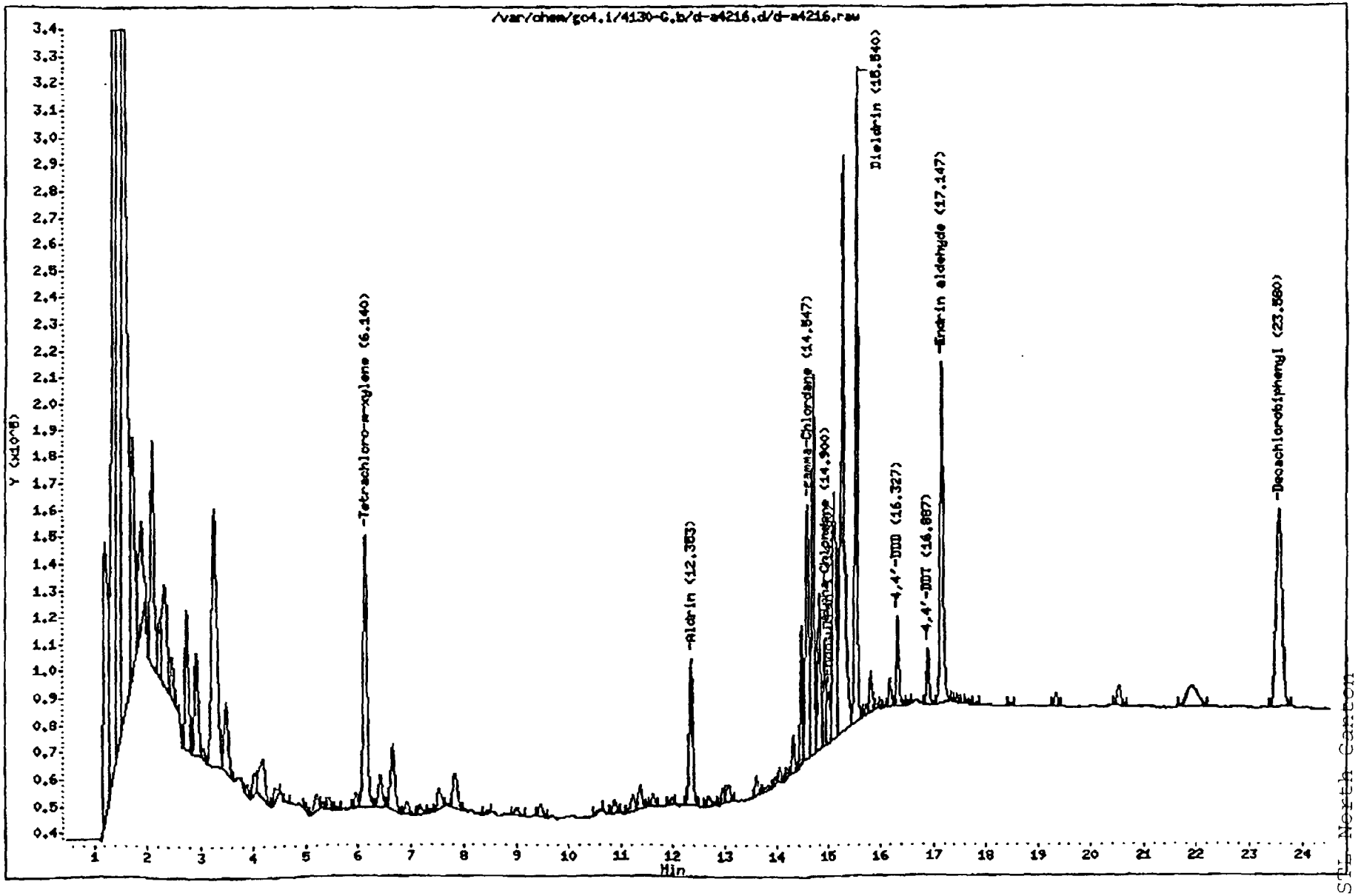
Operator: 01891
Column diameter: 0.53

/var/chem/go4.i/4130-G.b/d-a4216.d/d-a4216.raw



Data File: /var/chem/go4.i/4130-G.b/d-a4216.d
Date : 14-JUL-2000 08:23
Client ID: SL19-2.5
Sample Info: DFQQC103,4130-G.b,,all.sub,,,
Volume Injected (uL): 1.0
Column phase: DB608

Instrument: go4.i
Operator: 01891
Column diameter: 0.53



STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-b4216.d
Lab Smp Id: DFQQC103 Client Smp ID: SL18-2.5
Inj Date : 14-JUL-2000 08:23
Operator : 01891 Inst ID: gc4.i
Smp Info : DFQQC103,4130-G.b,,all.sub,,,
Misc Info : 060146-10
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4B.m
Meth Date : 14-Jul-2000 10:49 matkol Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-b4199.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.40 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	GPC Correction factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.000	% Moisture

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-6		
6.133	6.133	0.000	80202	0.03167	10.56	80.00- 120.00	100.00
2 Aroclor-1221					CAS #: 11104-28-2		

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
4 Aroclor-1232					CAS #: 11141-16-5		

Peaks not detected for Quant. or Qual. signal(s).

---

5 alpha-BHC CAS #: 319-84-6

Compound Not Detected

---

3 Aroclor-1016 CAS #: 12674-11-2

Peaks not detected for Quant. or Qual. signal(s).

---

8 Aroclor-1242 CAS #: 53469-21-9

Peaks not detected for Quant. or Qual. signal(s).

---

6 gamma-BHC(Lindane) CAS #: 58-89-9

Compound Not Detected

---

9 Aroclor-1248 CAS #: 12672-29-6

Peaks not detected for Quant. or Qual. signal(s).

---

7 Heptachlor CAS #: 76-44-8

11.360	11.368	-0.008	47009	0.00323	1.077	80.00- 120.00	100.00(a)

---

10 Aldrin CAS #: 309-00-2

12.280	12.280	0.000	241400	0.01920	6.400	80.00- 120.00	100.00

---

11 beta-BHC CAS #: 319-85-7

Compound Not Detected

---

12 delta-BHC CAS #: 319-86-8

Compound Not Detected

---

13 Heptachlor epoxide CAS #: 1024-57-3

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
14 Aroclor-1254					CAS #: 11097-69-1		
Peaks not detected for Quant. or Qual. signal(s).							
15 Endosulfan I					CAS #: 959-98-8		
Compound Not Detected							
16 gamma-Chlordane					CAS #: 5103-74-2		
14.973	14.972	0.001	83936	0.02496	8.320	80.00- 120.00	100.00
17 alpha-Chlordane					CAS #: 5103-71-9		
15.087	15.080	0.007	35983	0.01044	3.479	80.00- 120.00	100.00
18 4,4'-DDE					CAS #: 72-55-9		
Compound Not Detected							
19 Dieldrin					CAS #: 60-57-1		
15.867	15.865	0.002	248158	0.06507	21.69	80.00- 120.00	100.00
21 Aroclor-1260					CAS #: 11096-82-5		
Peaks not detected for Quant. or Qual. signal(s).							
22 Endrin					CAS #: 72-20-8		
15.840	15.908	-0.068	183371	0.06156	20.52	80.00- 120.00	100.00
20 Toxaphene					CAS #: 8001-35-2		
Peaks not detected for Quant. or Qual. signal(s).							
23 4,4'-DDD					CAS #: 72-54-8		
16.533	16.532	0.001	30734	0.01103	3.677	80.00- 120.00	100.00
24 Endosulfan II					CAS #: 33213-65-9		
Compound Not Detected							
25 4,4'-DDT					CAS #: 50-29-3		
16.853	16.852	0.001	18921	0.00665	2.218	80.00- 120.00	100.00(a)

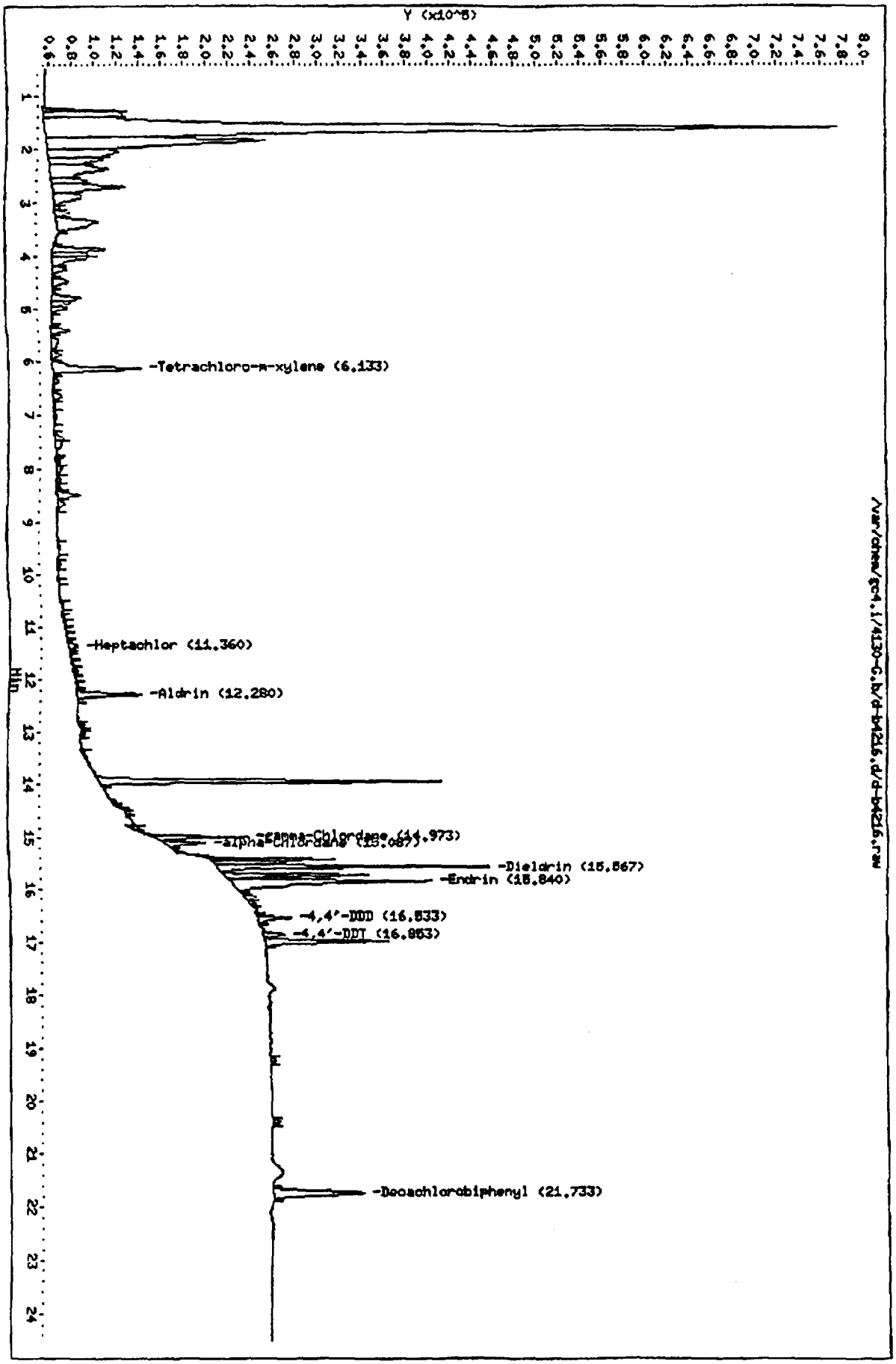
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
26 Endrin aldehyde					CAS #: 7421-93-4		
Compound Not Detected							
28 Methoxychlor					CAS #: 72-43-5		
Compound Not Detected							
27 Endosulfan sulfate					CAS #: 1031-07-8		
Compound Not Detected							
29 Endrin ketone					CAS #: 53494-70-5		
Compound Not Detected							
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
21.733	21.736	-0.002	83758	0.04275	14.25	80.00- 120.00	100.00

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: /var/chem/gc4.i/4130-G.b/d-b4216.d
Date : 14-JUL-2000 08:23
Client ID: SL18-2.5
Sample Info: DF0GC103,4130-G.b,,all.ub,,,
Volume Injected (uL): 1.0
Column phase: DB1701

Instrument: gc4.i
Operator: 01891
Column diameter: 0.53

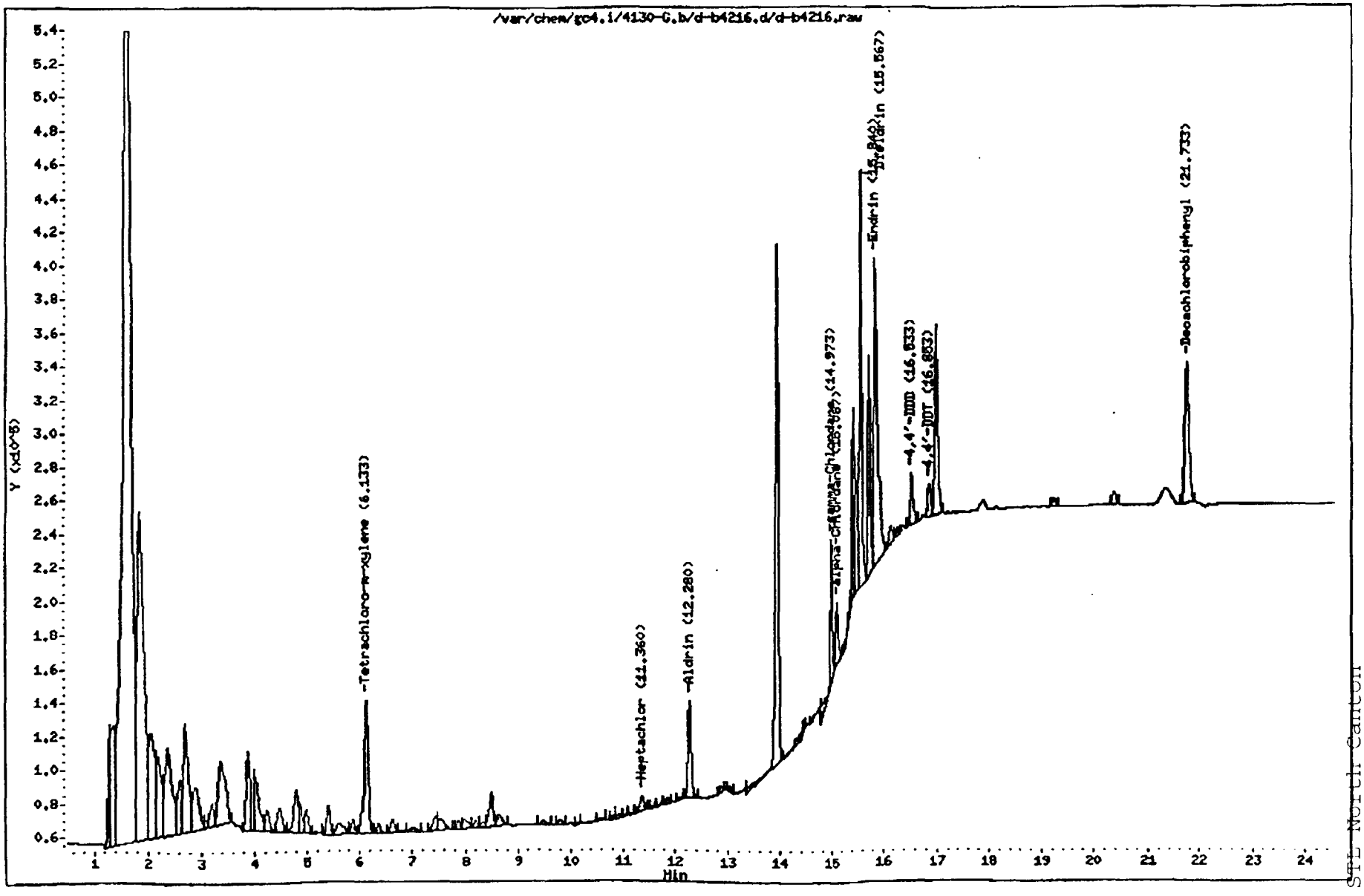


/var/chem/gc4.i/4130-G.b/d-b4216.d/d-b4216.raw

Page 5

Data File: /var/chem/gc4.i/4130-G.b/d-b4216.d
Date : 14-JUL-2000 08:23
Client ID: SL18-2.5
Sample Info: DFQQC103,4130-G.b,,all.sub,,,
Volume Injected (uL): 1.0
Column phase: DB1701

Instrument: gc4.i
Operator: 01891
Column diameter: 0.53



10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SL18-2.5

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: 40325 SDG No.: G06146

Lab Sample ID: DFQQC103 Date(s) Analyzed: 07/14/00 07/14/00

Instrument ID (1): GC4 Instrument ID (2): GC4

GC Column(1): DB608 ID: 0.53(mm) GC Column(2): DB1701 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
Aldrin	1	12.35	12.30	12.40	6.970	
	2	12.28	12.23	12.33	6.400	8.9
Dieldrin	1	15.54	15.47	15.61	22.07	
	2	15.57	15.50	15.64	21.69	1.8
4,4'-DDD	1	16.33	16.26	16.40	3.625	
	2	16.53	16.46	16.60	3.677	1.4
4,4'-DDT	1	16.89	16.82	16.96	2.345	
	2	16.85	16.78	16.92	2.218	5.7
alpha-Chlordane	1	14.90	14.83	14.97	3.982	
	2	15.09	15.01	15.15	3.479	14.4
gamma-Chlordane	1	14.55	14.48	14.62	10.00	
	2	14.97	14.90	15.04	8.320	20.2
	1					
	2					
	1					
	2					

MM 7/14/00

page 1 of 1

FORM X PEST-1 OLM03.0

RMT

Lab Name:Severn Trent Laboratories, Inc. SDG Number:G06146

Matrix: (soil/water) SO Lab Sample ID:A0G060146 011
Method: OCLP OLM03.1
Pesticides/PCB (CLP-OLM03.1)

Sample WT/Vol: 30 / g Date Received: 07/06/00
Work Order: DFQQN103 Date Extracted:07/11/00
Dilution factor: 1 Date Analyzed: 07/14/00
Moisture %:23

QC Batch: 0193481

Client Sample Id: SL19-1.0'

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	2.2	
5103-71-9	alpha-Chlordane	3.4	P
5103-74-2	gamma-Chlordane	5.7	
60-57-1	Dieldrin	9.1	
76-44-8	Heptachlor	~~2.2~~ 1.3	PJ ~~U~~
1024-57-3	Heptachlor epoxide	2.2	U
8001-35-2	Toxaphene	220	U

LM 7/24/00

FORM I

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
3 Aroclor-1232					CAS #: 11141-16-5		

Peaks not detected for Quant. or Qual. signal(s).

---

4 Aroclor-1016 CAS #: 12674-11-2

Peaks not detected for Quant. or Qual. signal(s).

---

5 alpha-BHC CAS #: 319-84-6

Compound Not Detected

---

6 Aroclor-1242 CAS #: 53469-21-9

Peaks not detected for Quant. or Qual. signal(s).

---

7 gamma-BHC(Lindane) CAS #: 58-89-9

Compound Not Detected

---

8 beta-BHC CAS #: 319-85-7

Compound Not Detected

---

9 Heptachlor CAS #: 76-44-8

11.240	11.243	-0.003	9668	0.00303	1.009	80.00- 120.00	100.00(m)

---

10 Aroclor-1248 CAS #: 12672-29-6

Peaks not detected for Quant. or Qual. signal(s).

---

11 delta-BHC CAS #: 319-86-8

Compound Not Detected

---

12 Aldrin CAS #: 309-00-2

12.360	12.352	0.008	14965	0.00576	1.921	80.00- 120.00	100.00

---

13 Heptachlor epoxide CAS #: 1024-57-3

Compound Not Detected

---

14 gamma-Chlordane CAS #: 5103-74-2

14.547	14.551	-0.004	48436	0.01532	5.106	80.00- 120.00	100.00

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
15 Aroclor-1254					CAS #: 11097-69-1		
Operator disabled compound identification.							
16 alpha-Chlordane					CAS #: 5103-71-9		
14.893	14.900	-0.007	25964	0.00778	2.593	80.00- 120.00	100.00
17 Endosulfan I					CAS #: 959-98-8		
Compound Not Detected							
19 4,4'-DDE					CAS #: 72-55-9		
15.380	15.380	0.000	19227	0.00521	1.735	80.00- 120.00	100.00(a)
20 Dieldrin					CAS #: 60-57-1		
15.540	15.545	-0.005	77097	0.02085	6.951	80.00- 120.00	100.00
21 Aroclor-1260					CAS #: 11096-82-5		
Operator disabled compound identification.							
22 Endrin					CAS #: 72-20-8		
16.240	16.180	0.060	17487	0.00644	2.147	80.00- 120.00	100.00(a)
23 4,4'-DDD					CAS #: 72-54-8		
16.353	16.327	0.026	40785	0.01354	4.512	80.00- 120.00	100.00
18 Toxaphene					CAS #: 8001-35-2		
Operator disabled compound identification.							
24 Endosulfan II					CAS #: 33213-65-9		
Compound Not Detected							
25 4,4'-DDT					CAS #: 50-29-3		
16.887	16.888	-0.001	51491	0.01772	5.906	80.00- 120.00	100.00
26 Endrin aldehyde					CAS #: 7421-93-4		
17.147	17.132	0.015	96734	0.04528	15.13	80.00- 120.00	100.00

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
27 Endosulfan sulfate					CAS #: 1031-07-8		
Compound Not Detected							
28 Methoxychlor					CAS #: 72-43-5		
Compound Not Detected							
29 Endrin ketone					CAS #: 53494-70-5		
Compound Not Detected							
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
23.573	23.587	-0.014	80263	0.04581	15.27	80.00- 120.00	100.00

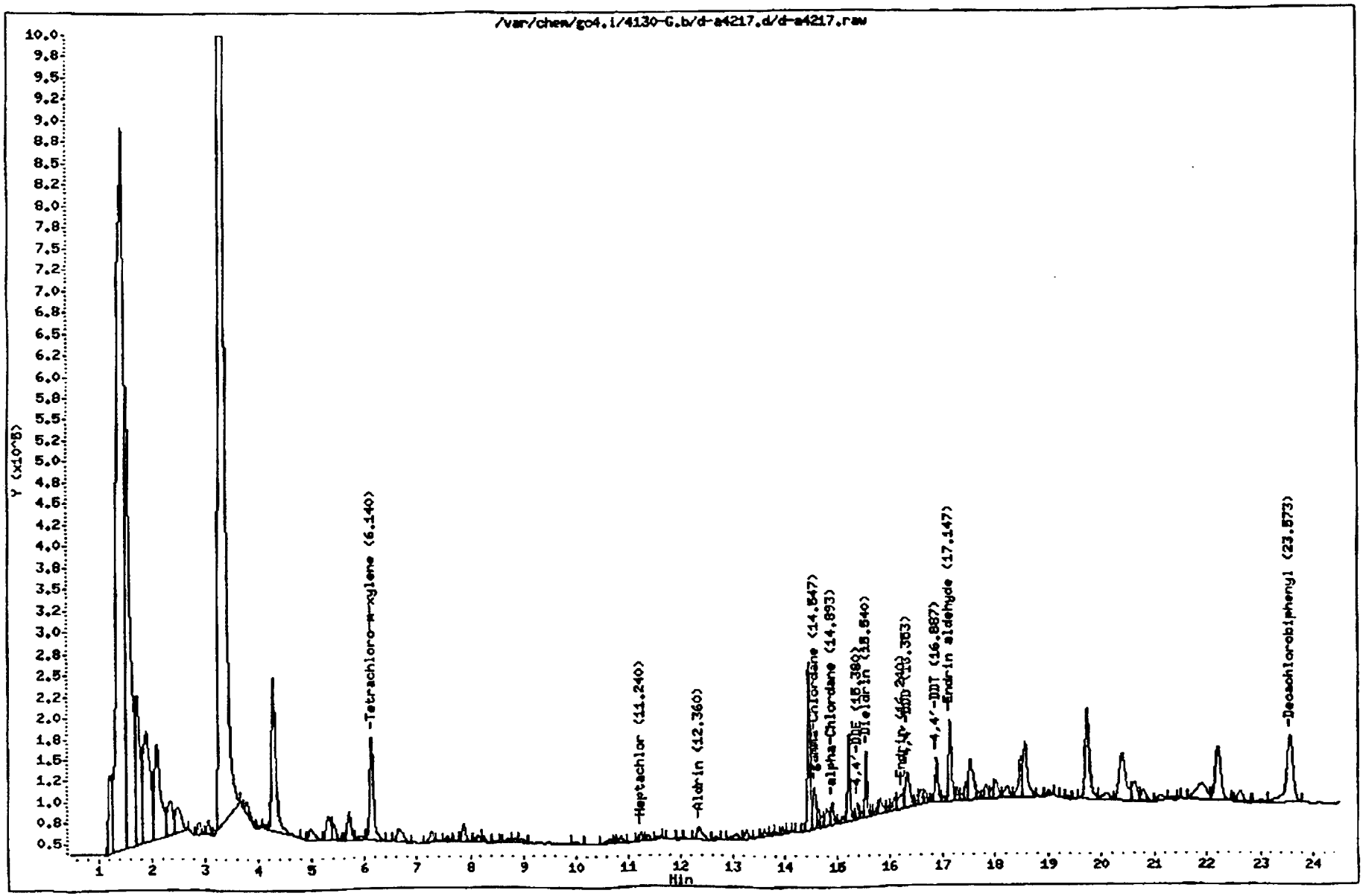
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /var/chem/gc4.i/4130-G.b/d-a4217.d
Date : 14-JUL-2000 08:50
Client ID: SL19-1.0
Sample Info: DFQQH103,4130-G.b,,all.sub,,,
Volume Injected (uL): 1.0
Column phase: DB608

Instrument: gc4.i

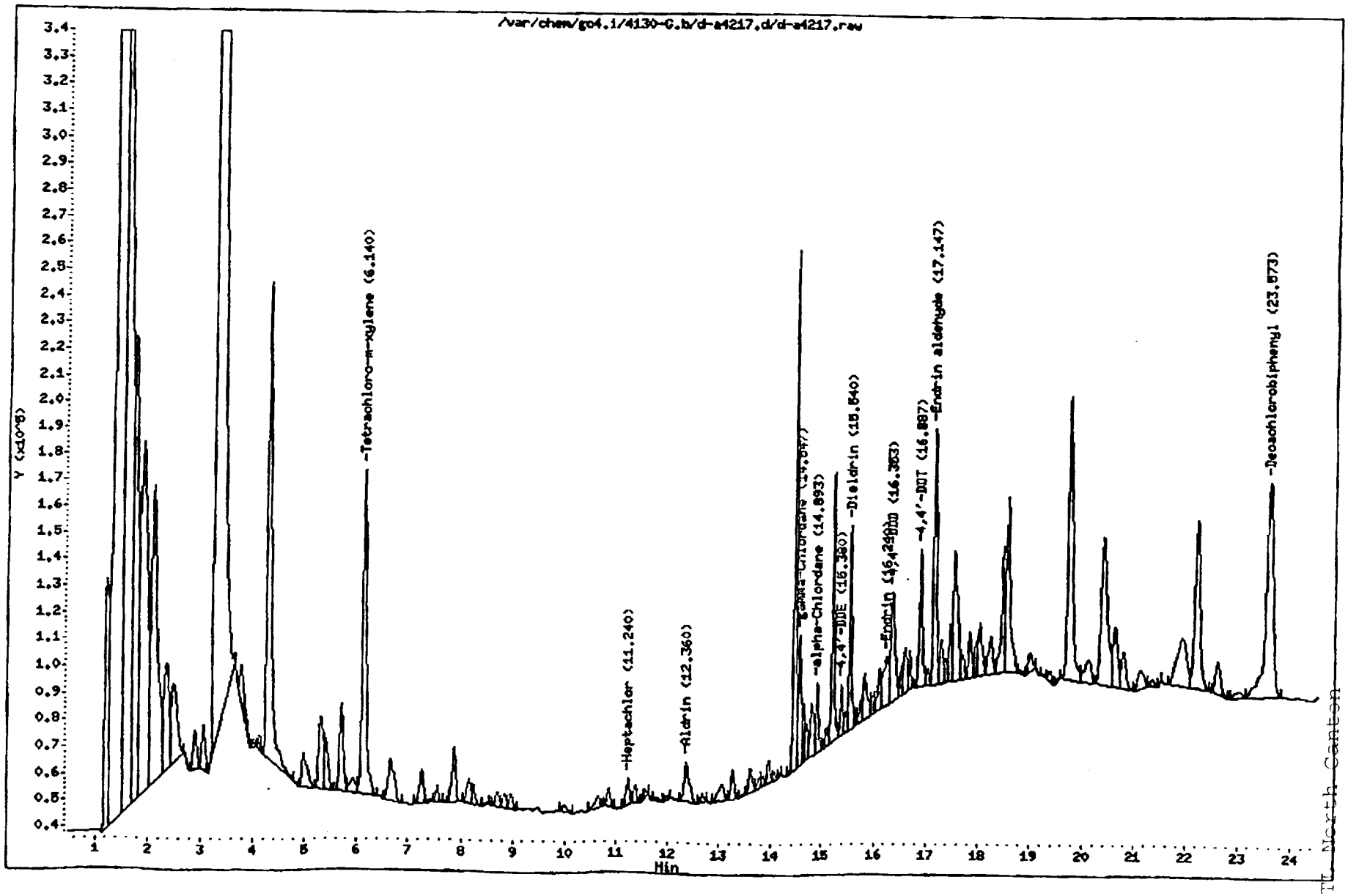
Operator: 01891
Column diameter: 0.53



Data File: /var/chem/gc4.i/4130-G.b/d-a4217.d
Date : 14-JUL-2000 08:50
Client ID: SL19-1.0
Sample Info: DFQQH103,4130-G.b,,all.sub,,,
Volume Injected (uL): 1.0
Column phase: DB608

Instrument: gc4.i

Operator: 01891
Column diameter: 0.53



STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-b4217.d
Lab Smp Id: DFQQN103 Client Smp ID: SL19-1.0
Inj Date : 14-JUL-2000 08:50
Operator : 01891 Inst ID: gc4.i
Smp Info : DFQQN103,4130-G.b,,all.sub,,,
Misc Info : 060146-11
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4B.m
Meth Date : 14-Jul-2000 10:49 matkol Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-b4199.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.40 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	GPC Correction factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.000	% Moisture

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.133	6.133	0.000	89276	0.03525	11.75	80.00- 120.00	100.00
2 Aroclor-1221					CAS #: 11104-28-2		

Qualifier signal(s) failed ratio test.

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
4 Aroclor-1232					CAS #: 11141-16-5		

Peaks not detected for Quant. or Qual. signal(s).

---

5 alpha-BHC CAS #: 319-84-6

Compound Not Detected

---

3 Aroclor-1016 CAS #: 12674-11-2

Peaks not detected for Quant. or Qual. signal(s).

---

8 Aroclor-1242 CAS #: 53469-21-9

Peaks not detected for Quant. or Qual. signal(s).

---

6 gamma-BHC(Lindane) CAS #: 58-89-9

Compound Not Detected

---

9 Aroclor-1248 CAS #: 12672-29-6

Peaks not detected for Quant. or Qual. signal(s).

---

7 Heptachlor CAS #: 76-44-8

11.360	11.368	-0.008	65834	0.00453	1.509	80.00- 120.00	100.00(a)

---

10 Aldrin CAS #: 309-00-2

12.280	12.280	0.000	63365	0.00504	1.680	80.00- 120.00	100.00(a)

---

11 beta-BHC CAS #: 319-85-7

Compound Not Detected

---

12 delta-BHC CAS #: 319-86-8

Compound Not Detected

---

13 Heptachlor epoxide CAS #: 1024-57-3

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
14 Aroclor-1254					CAS #: 11097-69-1		
Operator disabled compound identification.							
15 Endosulfan I					CAS #: 959-98-8		
Compound Not Detected							
16 gamma-Chlordane					CAS #: 5103-74-2		
14.973	14.972	0.001	43905	0.01306	4.352	80.00- 120.00	100.00
17 alpha-Chlordane					CAS #: 5103-71-9		
15.080	15.080	0.000	47055	0.01365	4.549	80.00- 120.00	100.00
18 4,4'-DDE					CAS #: 72-55-9		
Compound Not Detected							
19 Dieldrin					CAS #: 60-57-1		
15.560	15.565	-0.005	81414	0.02135	7.116	80.00- 120.00	100.00
21 Aroclor-1260					CAS #: 11096-82-5		
Peaks not detected for Quant. or Qual. signal(s).							
22 Endrin					CAS #: 72-20-8		
Compound Not Detected							
20 Toxaphene					CAS #: 8001-35-2		
Peaks not detected for Quant. or Qual. signal(s).							
23 4,4'-DDD					CAS #: 72-54-8		
16.533	16.532	0.001	16427	0.00661	2.205	80.00- 120.00	100.00(a)
24 Endosulfan II					CAS #: 33213-65-9		
Compound Not Detected							
25 4,4'-DDT					CAS #: 50-29-3		
16.853	16.852	0.001	51477	0.01810	6.034	80.00- 120.00	100.00
26 Endrin aldehyde					CAS #: 7421-93-4		
17.427	17.480	-0.053	44128	0.03160	10.53	80.00- 120.00	100.00

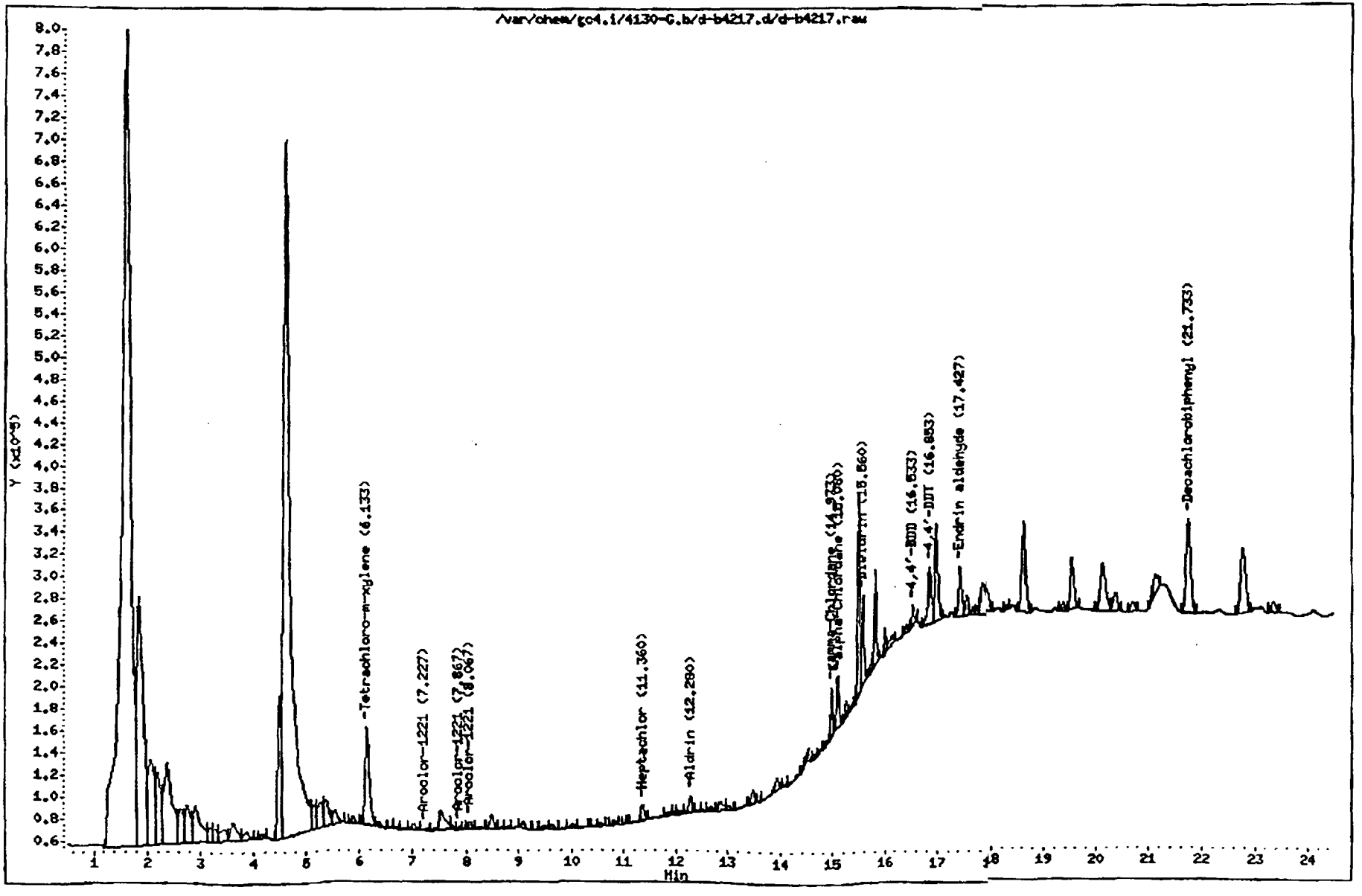
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
28 Methoxychlor					CAS #: 72-43-5		
Compound Not Detected							
27 Endosulfan sulfate					CAS #: 1031-07-8		
Compound Not Detected							
29 Endrin ketone					CAS #: 53494-70-5		
Compound Not Detected							
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
21.733	21.735	-0.002	83941	0.04284	14.28	80.00- 120.00	100.00

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: /var/chem/go4.i/4130-G.b/d-b4217.d
Date : 14-JUL-2000 08:50
Client ID: SL19-1.0
Sample Info: DFQQN103,4130-G.b,,all.sub,,,
Volume Injected (uL): 1.0
Column phase: DB1701

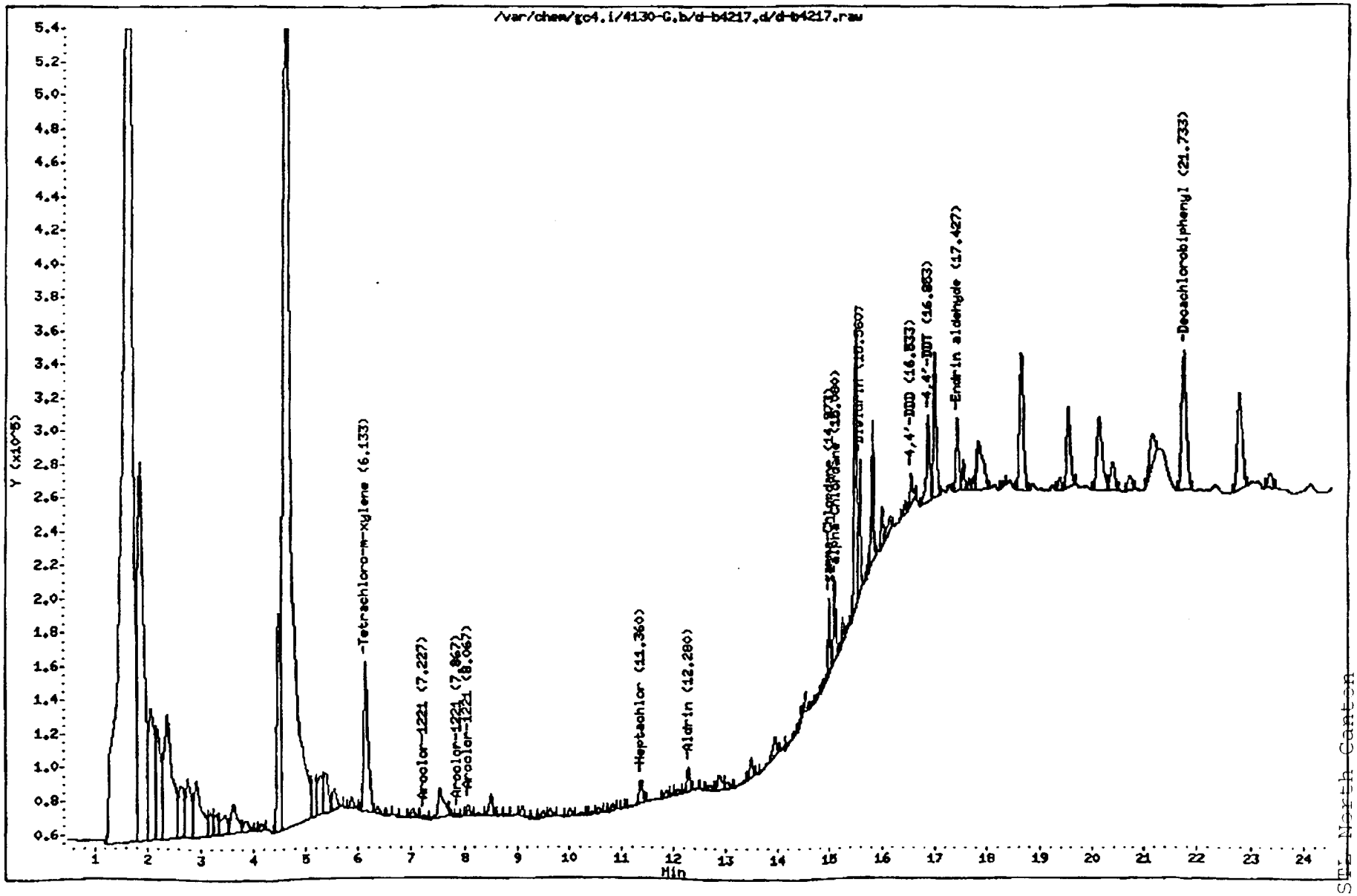
Instrument: go4.i
Operator: 01891
Column diameter: 0.53



STL North Canton

Data File: /var/chem/gc4.i/4130-G.b/d-b4217.d
Date : 14-JUL-2000 08:50
Client ID: SL19-1.0
Sample Info: DFQQH103,4130-G.b,,all.sub,,,
Volume Injected (uL): 1.0
Column phase: DB1701

Instrument: gc4.i
Operator: 01891
Column diameter: 0.53



10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SL19-1.0

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: 40325 SDG No.: G06146

Lab Sample ID: DFQQN103 Date(s) Analyzed: 07/14/00 07/14/00

Instrument ID (1): GC4 Instrument ID (2): GC4

GC Column(1): DB608 ID: 0.53(mm) GC Column(2): DB1701 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
Heptachlor	1	11.24	11.19	11.29	1.009	
	2	11.36	11.32	11.42	1.509	49.6
Aldrin	1	12.36	12.30	12.40	1.921	
	2	12.28	12.23	12.33	1.680	14.3
Dieldrin	1	15.54	15.47	15.61	6.952	
	2	15.56	15.50	15.64	7.116	2.4
~~4,4'-DDD~~	~~1~~	~~16.35~~	~~16.26~~	~~16.40~~	~~4.512~~	
	2	16.53	16.46	16.60	~~2.205~~	104.6
4,4'-DDT	1	16.89	~~16.82~~	16.96	5.905	
	2	16.85	16.78	16.92	6.034	2.2
Endrin aldehyde	1	17.15	17.06	17.20	15.13	
	2	17.43	17.41	17.55	10.53	43.7
alpha-Chlordane	1	14.89	14.83	14.97	2.593	
	2	15.08	15.01	15.15	4.549	75.4
gamma-Chlordane	1	14.55	14.48	14.62	5.106	
	2	14.97	14.90	15.04	4.352	17.3

MM 7/14/00

RMT

Lab Name:Severn Trent Laboratories, Inc. SDG Number:G06146

Matrix: (soil/water) SO Lab Sample ID:A0G060146 012
Method: OCLP OLM03.1
Pesticides/PCB (CLP-OLM03.1)

Sample WT/Vol: 30 / g Date Received: 07/06/00
Work Order: DFQQP103 Date Extracted:07/11/00
Dilution factor: 1 Date Analyzed: 07/14/00
Moisture %:16

QC Batch: 0193481

Client Sample Id: SL20-2.0'

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	2.7	P
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	3.3	P
60-57-1	Dieldrin	9.7	P
76-44-8	Heptachlor	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
8001-35-2	Toxaphene	200	U

FORM I

STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-a4218.d
Lab Smp Id: DFQQP103 Client Smp ID: SL20-2.0
Inj Date : 14-JUL-2000 09:18
Operator : 01891 Inst ID: gc4.i
Smp Info : DFQQP103,4130-G.b,,all.sub,,,
Misc Info : 060146-12
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4A.m
Meth Date : 14-Jul-2000 12:11 g Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-a4199.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.40 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	GPC Correction factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.000	% Moisture

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.140	6.140	0.000	105476	0.02008	10.02	80.00- 120.00	100.00
2 Aroclor-1221					CAS #: 11104-28-2		

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
3 Aroclor-1232					CAS #: 11141-16-5		

Peaks not detected for Quant. or Qual. signal(s).

---

4 Aroclor-1016					CAS #: 12674-11-2		

Peaks not detected for Quant. or Qual. signal(s).

---

5 alpha-BHC					CAS #: 319-84-6		

Compound Not Detected

---

6 Aroclor-1242					CAS #: 53469-21-9		

Peaks not detected for Quant. or Qual. signal(s).

---

7 gamma-BHC(Lindane)					CAS #: 58-89-9		

Compound Not Detected

---

8 beta-BHC					CAS #: 319-85-7		

Compound Not Detected

---

9 Heptachlor					CAS #: 76-44-8		

Compound Not Detected

---

10 Aroclor-1248					CAS #: 12672-29-6		

Peaks not detected for Quant. or Qual. signal(s).

---

11 delta-BHC					CAS #: 319-86-8		

Compound Not Detected

---

12 Aldrin					CAS #: 309-00-2		
12.353	12.352	0.001	38978	0.01501	5.003	80.00- 120.00	100.00

---

13 Heptachlor epoxide					CAS #: 1024-57-3		

Compound Not Detected

---

14 gamma-Chlordane					CAS #: 5103-74-2		
14.487	14.551	-0.064	930017	0.29415	98.05	80.00- 120.00	100.00(A)

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
15 Aroclor-1254					CAS #: 11097-69-1		

Operator disabled compound identification.

---

16 alpha-Chlordane					CAS #: 5103-71-9		

Compound Not Detected

---

17 Endosulfan I					CAS #: 959-98-8		

Compound Not Detected

---

19 4,4'-DDE					CAS #: 72-55-9		

Compound Not Detected

---

20 Dieldrin					CAS #: 60-57-1		
15.540	15.545	-0.005	90587	0.02450	8.168	80.00- 120.00	100.00

---

21 Aroclor-1260					CAS #: 11096-82-5		

Peaks not detected for Quant. or Qual. signal(s).

---

22 Endrin					CAS #: 72-20-8		
16.233	16.180	0.053	119363	0.04296	14.65	80.00- 120.00	100.00

---

23 4,4'-DDD					CAS #: 72-54-8		

Compound Not Detected

---

18 Toxaphene					CAS #: 8001-35-2		

Peaks not detected for Quant. or Qual. signal(s).

---

24 Endosulfan II					CAS #: 33213-65-9		

Compound Not Detected

---

25 4,4'-DDT					CAS #: 50-29-3		
16.867	16.888	-0.001	18464	0.00532	1.774	80.00- 120.00	100.00(m)

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

26 Endrin aldehyde CAS #: 7421-93-4

Compound Not Detected

---

27 Endosulfan sulfate CAS #: 1031-07-8

Compound Not Detected

---

28 Methoxychlor CAS #: 72-43-5

Compound Not Detected

---

29 Endrin ketone CAS #: 53494-70-5

Compound Not Detected

$ 30 Decachlorobiphenyl CAS #: 2051-24-3

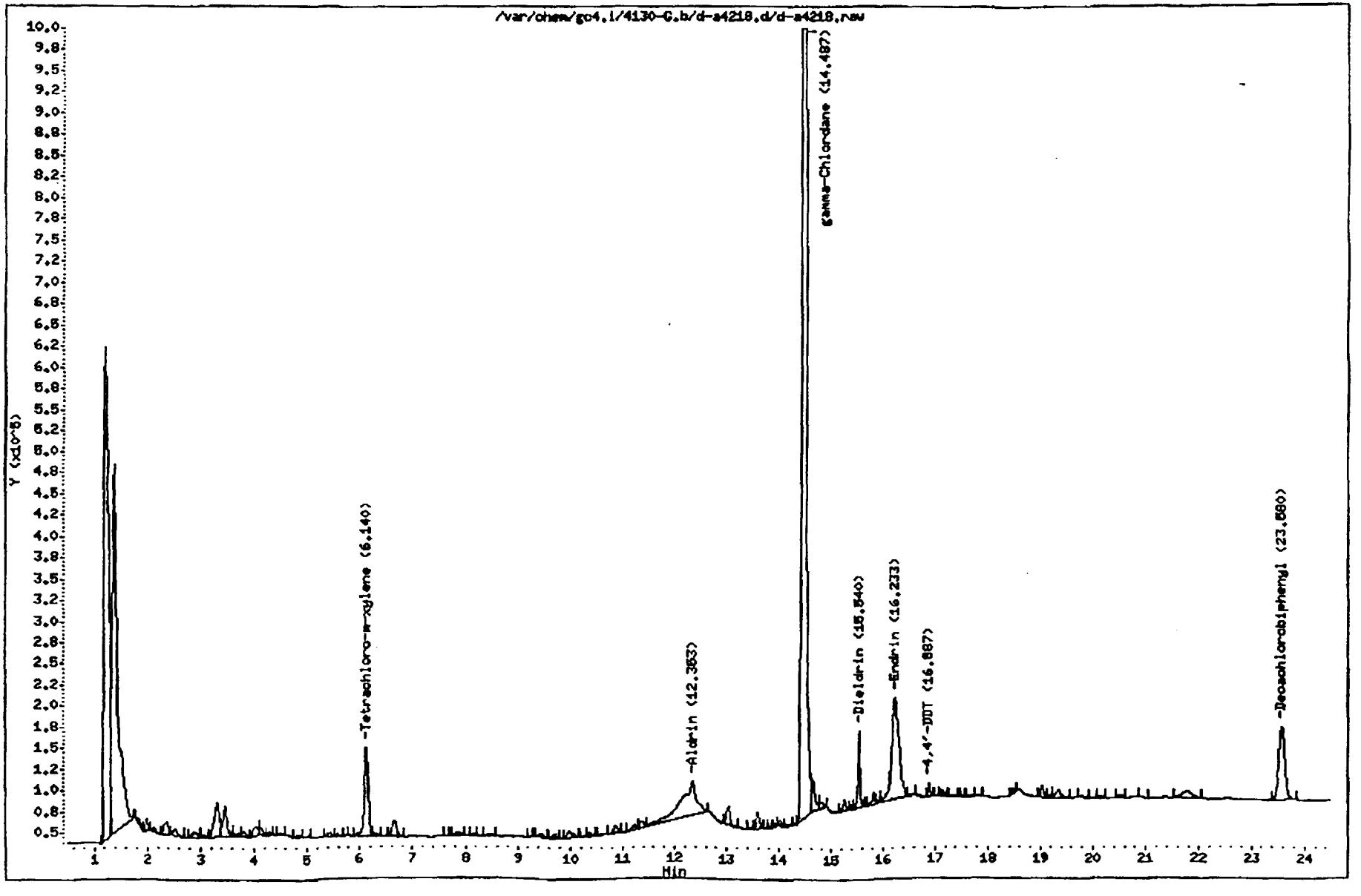
23.580	23.587	-0.007	86269	0.04924	16.41	80.00- 120.00	100.00

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.

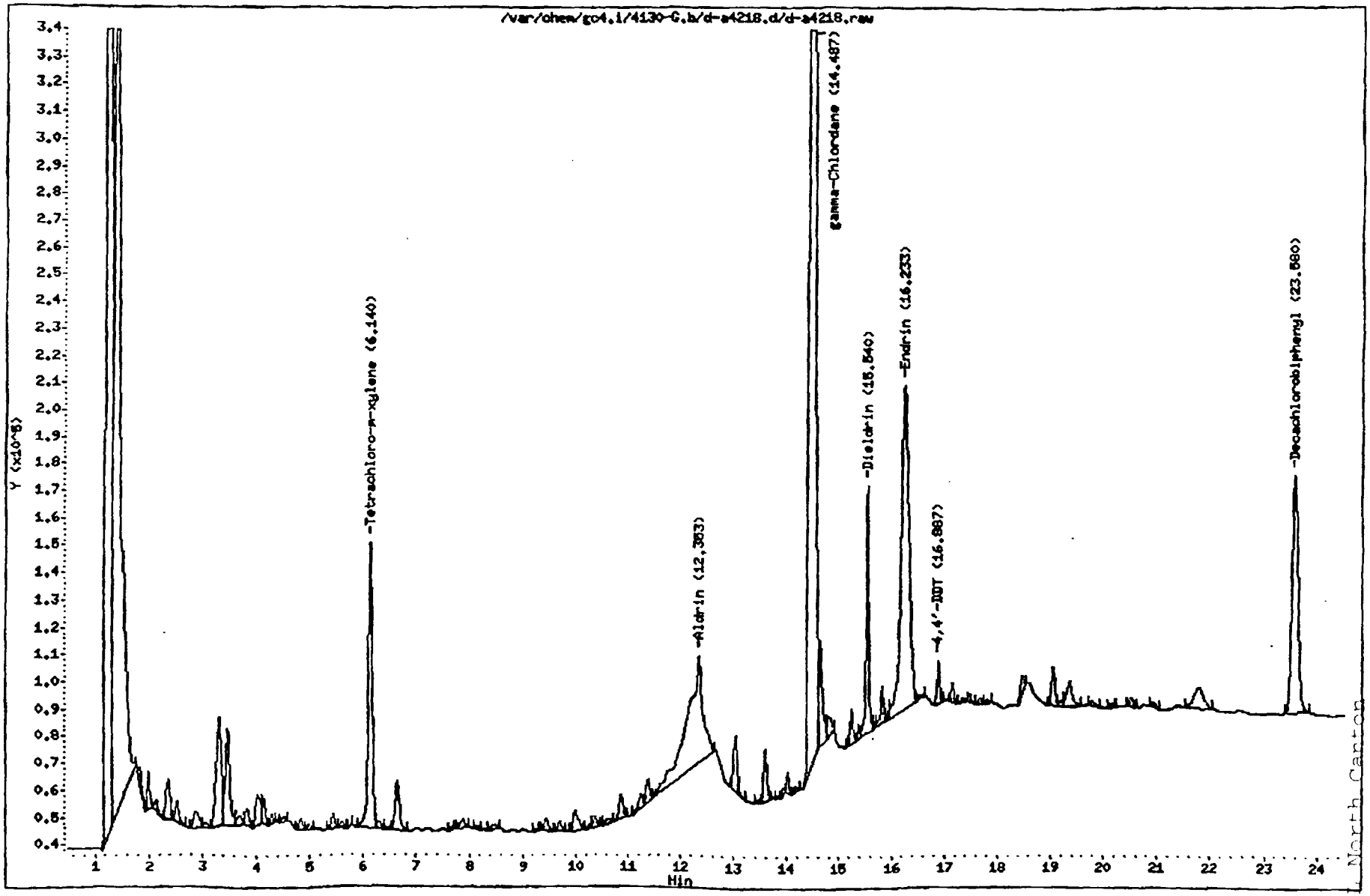
Data File: /var/chem/go4.i/4130-G.b/d-a4218.d
Date : 14-JUL-2000 09:18
Client ID: SL20-2.0
Sample Info: DFQQP103,4130-G.b,,all.sub,,,
Volume Injected (uL): 1.0
Column phase: DB608

Instrument: go4.i
Operator: 01891
Column diameter: 0.53



Data File: /var/chem/go4.i/4130-G.b/d-a4218.d
Date : 14-JUL-2000 09:18
Client ID: SL20-2.0
Sample Info: DFQQP103,4130-G.b,,all.sub,,,
Volume Injected (uL): 1.0
Column phase: DB608

Instrument: go4.i
Operator: 01891
Column diameter: 0.53



FL North Canton

STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-b4218.d
Lab Smp Id: DFQQP103 Client Smp ID: SL20-2.0
Inj Date : 14-JUL-2000 09:18
Operator : 01891 Inst ID: gc4.i
Smp Info : DFQQP103,4130-G.b,,all.sub,,,
Misc Info : 060146-12
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4B.m
Meth Date : 14-Jul-2000 12:14 g Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-b4199.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.40 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	GPC Correction factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.000	% Moisture

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
# 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.140	6.133	0.007	76816	0.03033	10.11	80.00- 120.00	100.00
2 Aroclor-1221					CAS #: 11104-28-2		

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

4 Aroclor-1232 CAS #: 11141-16-5

Peaks not detected for Quant. or Qual. signal(s).

---

5 alpha-BHC CAS #: 319-84-6

Compound Not Detected

---

3 Aroclor-1016 CAS #: 12674-11-2

Peaks not detected for Quant. or Qual. signal(s).

---

8 Aroclor-1242 CAS #: 53469-21-9

Peaks not detected for Quant. or Qual. signal(s).

---

6 gamma-BHC(Lindane) CAS #: 58-89-9

10.553	10.557	-0.004	8896	0.00291	0.9700	80.00- 120.00	100.00(a)

---

9 Aroclor-1248 CAS #: 12672-29-6

Peaks not detected for Quant. or Qual. signal(s).

---

7 Heptachlor CAS #: 76-44-8

11.367	11.368	-0.001	53555	0.00368	1.227	80.00- 120.00	100.00(a)

---

10 Aldrin CAS #: 309-00-2

12.280	12.280	0.000	84205	0.00670	2.233	80.00- 120.00	100.00

---

11 beta-BHC CAS #: 319-85-7

Compound Not Detected

---

12 delta-BHC CAS #: 319-86-8

Compound Not Detected

---

13 Heptachlor epoxide CAS #: 1024-57-3

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
14 Aroclor-1254					CAS #: 11097-69-1		

Peaks not detected for Quant. or Qual. signal(s).

---

15 Endosulfan I					CAS #: 959-98-8		

Compound Not Detected

---

16 gamma-Chlordane					CAS #: 5103-74-2		
14.967	14.972	-0.005	27681	0.00823	2.744	80.00- 120.00	100.00

---

17 alpha-Chlordane					CAS #: 5103-71-9		
15.072	15.080	-0.007	28479	0.00826	2.753	80.00- 120.00	100.00

---

18 4,4'-DDE					CAS #: 72-55-9		

Compound Not Detected

---

19 Dieldrin					CAS #: 60-57-1		
15.513	15.565	-0.052	809019	0.21214	70.71	80.00- 120.00	100.00(A)

---

21 Aroclor-1260					CAS #: 11096-82-5		

Peaks not detected for Quant. or Qual. signal(s).

---

22 Endrin					CAS #: 72-20-8		

Compound Not Detected

---

20 Toxaphene					CAS #: 8001-35-2		

Peaks not detected for Quant. or Qual. signal(s).

---

23 4,4'-DDD					CAS #: 72-54-8		

Compound Not Detected

---

24 Endosulfan II					CAS #: 33213-65-9		

Compound Not Detected

---

25 4,4'-DDT					CAS #: 50-29-3		
16.853	16.852	0.001	14889	0.00524	1.745	80.00- 120.00	100.00(a)

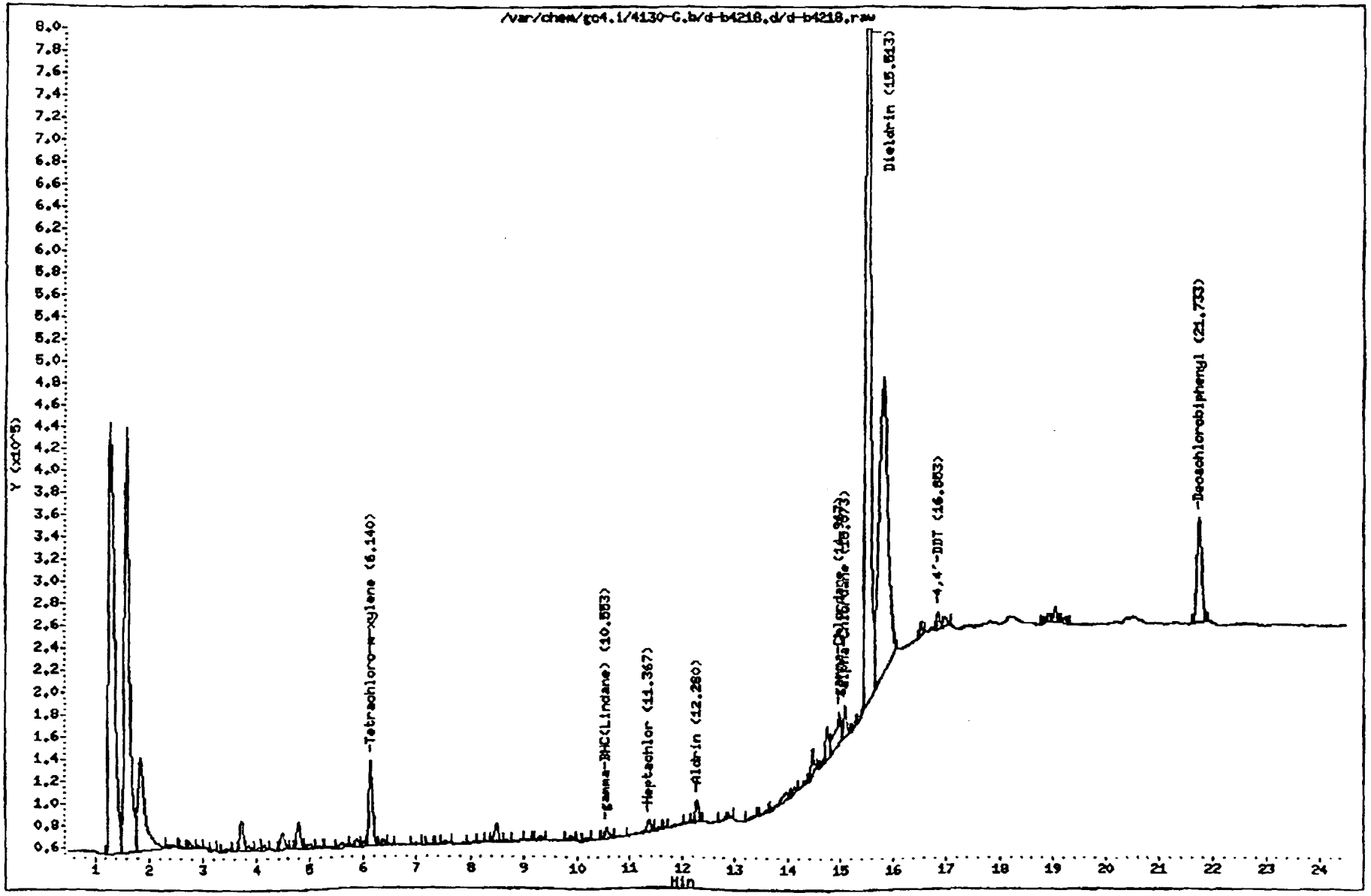
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
26 Endrin aldehyde					CAS #: 7421-93-4		
Compound Not Detected							
28 Methoxychlor					CAS #: 72-43-5		
Compound Not Detected							
27 Endosulfan sulfate					CAS #: 1031-07-8		
Compound Not Detected							
29 Endrin ketone					CAS #: 53494-70-5		
Compound Not Detected							
# 30 Decachlorobiphenyl					CAS #: 2051-24-3		
21.733	21.735	-0.002	95472	0.04873	16.24	80.00- 120.00	100.00

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /var/chem/go4.i/4130-G.b/d-b4218.d
Date : 14-JUL-2000 09:18
Client ID: SL20-2.0
Sample Info: DFQQP103,4130-G.b,,all.sub,,,
Volume Injected (uL): 1.0
Column phase: DB1701

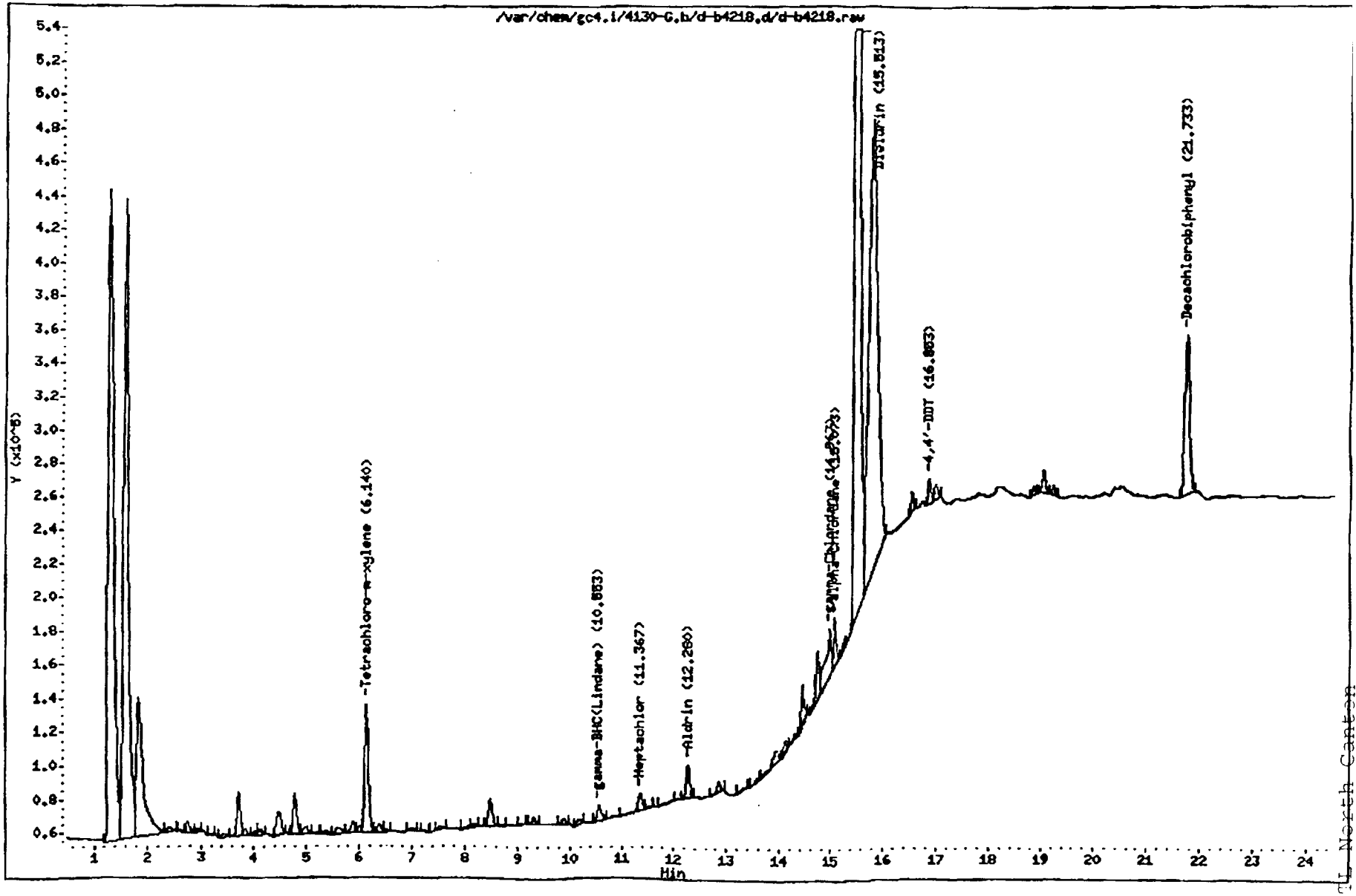
Instrument: go4.i
Operator: 01891
Column diameter: 0.53



TL North Canton

Data File: /var/chem/gc4.i/4130-G.b/d-b4218.d
Date : 14-JUL-2000 09:18
Client ID: SL20-2.0
Sample Info: DFQQP103,4130-G.b,,all.sub,,,
Volume Injected (uL): 1.0
Column phase: DB1701

Instrument: gc4.i
Operator: 01891
Column diameter: 0.53



10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SL20-2.0

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: 40325 SDG No.: G06146

Lab Sample ID: DFQQP103 Date(s) Analyzed: 07/14/00 07/14/00

Instrument ID (1): GC4 Instrument ID (2): GC4

GC Column(1): DB608 ID: 0.53(mm) GC Column(2): DB1701 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
Aldrin	1	12.35	12.30	12.40	5.003	
	2	12.28	12.23	12.33	2.233	124.0
Dieldrin	1	15.54	15.47	15.61	8.168	
	2	15.51	15.50	15.64	70.71	765.7
4,4'-DDT	1	16.89	16.82	16.96	1.774	
	2	16.85	16.78	16.92	1.745	1.7
gamma-Chlordane	1	14.49	14.48	14.62	98.05	
	2	14.97	14.90	15.04	2.744	999.9
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

MJ 7/14/00

FORM X PEST-1 OLM03.0

TL North Canton

RMT

Lab Name:Severn Trent Laboratories, Inc. SDG Number:G06146

Matrix: (soil/water) SO Lab Sample ID:A0G060146 013
Method: OCLP OLM03.1
Pesticides/PCB (CLP-OLM03.1)

Sample WT/Vol: 30 / g Date Received: 07/06/00
Work Order: DFQQT103 Date Extracted:07/11/00
Dilution factor: 1 Date Analyzed: 07/14/00
Moisture %:16

QC Batch: 0193481

Client Sample Id: SL20-2.0'DUP

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	**Aldrin**	**3.3**	
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
60-57-1	**Dieldrin**	**11**	**P**
76-44-8	Heptachlor	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
8001-35-2	Toxaphene	200	U

FORM I

STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-a4219.d
Lab Smp Id: DFQQT103 Client Smp ID: SL20-2.0DUP
Inj Date : 14-JUL-2000 09:46
Operator : 01891 Inst ID: gc4.i
Smp Info : DFQQT103,4130-G.b,,all.sub,,,
Misc Info : 060146-13
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4A.m
Meth Date : 14-Jul-2000 12:11 g Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-a4199.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.40 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	GPC Correction factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.000	% Moisture

	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
	6.133	6.140	-0.007	105391	0.03006	10.02	80.00- 120.00	100.00
2 Aroclor-1221						CAS #: 11104-28-2		

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

3 Aroclor-1232 CAS #: 11141-16-5

Peaks not detected for Quant. or Qual. signal(s).

---

4 Aroclor-1016 CAS #: 12674-11-2

Peaks not detected for Quant. or Qual. signal(s).

---

5 alpha-BHC CAS #: 319-84-6

Compound Not Detected

---

6 Aroclor-1242 CAS #: 53469-21-9

Peaks not detected for Quant. or Qual. signal(s).

---

7 gamma-BHC(Lindane) CAS #: 58-89-9

Compound Not Detected

---

8 beta-BHC CAS #: 319-85-7

Compound Not Detected

---

9 Heptachlor CAS #: 76-44-8

Compound Not Detected

---

10 Aroclor-1248 CAS #: 12672-29-6

Peaks not detected for Quant. or Qual. signal(s).

---

11 delta-BHC CAS #: 319-86-8

Compound Not Detected

---

12 Aldrin CAS #: 309-00-2

12.353	12.352	0.001	23897	0.00920	3.067	80.00- 120.00	100.00

---

13 Heptachlor epoxide CAS #: 1024-57-3

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

14 gamma-Chlordane CAS #: 5103-74-2

Compound Not Detected

---

15 Aroclor-1254 CAS #: 11097-69-1

Peaks not detected for Quant. or Qual. signal(s).

---

16 alpha-Chlordane CAS #: 5103-71-9

Compound Not Detected

---

17 Endosulfan I CAS #: 959-98-8

Compound Not Detected

---

19 4,4'-DDE CAS #: 72-55-9

Compound Not Detected

---

20 Dieldrin CAS #: 60-57-1

15.540	15.545	-0.005	103388	0.02797	9.322	80.00- 120.00	100.00

---

21 Aroclor-1260 CAS #: 11096-82-5

Peaks not detected for Quant. or Qual. signal(s).

---

22 Endrin CAS #: 72-20-8

Compound Not Detected

---

23 4,4'-DDD CAS #: 72-54-8

16.327	16.327	0.000	21532	0.00715	2.382	80.00- 120.00	100.00(a)

---

18 Toxaphene CAS #: 8001-35-2

Peaks not detected for Quant. or Qual. signal(s).

---

24 Endosulfan II CAS #: 33213-65-9

Compound Not Detected

---

25 4,4'-DDT CAS #: 50-29-3

16.887	16.888	-0.001	17059	0.00567	1.956	80.00- 120.00	100.00(a)

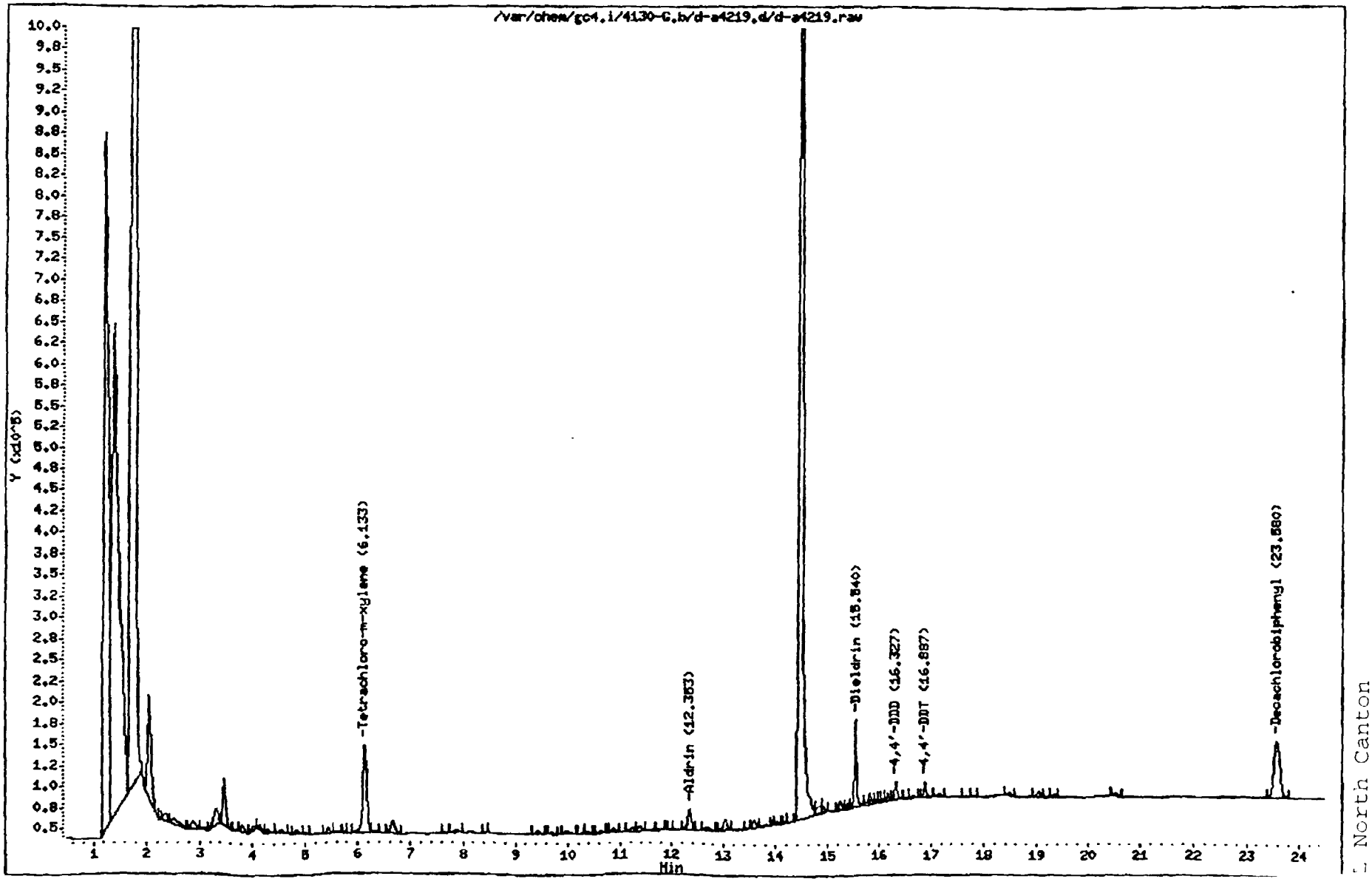
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
26 Endrin aldehyde					CAS #: 7421-93-4		
Compound Not Detected							
27 Endosulfan sulfate					CAS #: 1031-07-8		
Compound Not Detected							
28 Methoxychlor					CAS #: 72-43-5		
Compound Not Detected							
29 Endrin ketone					CAS #: 53494-70-5		
Compound Not Detected							
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
23.580	23.587	-0.007	67039	0.03826	12.75	80.00- 120.00	100.00

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: /var/chem/go4.i/4130-G.b/d-a4219.d
Date : 14-JUL-2000 09:46
Client ID: SL20-2.0DUP
Sample Info: DFQQT103,4130-G.b,,all.sub,,,
Volume Injected (uL): 1.0
Column phase: DB608

Instrument: go4.i
Operator: 01891
Column diameter: 0.53



Data File: /var/chem/go4.i/4130-G.b/d-a4219.d

Date : 14-JUL-2000 09:46

Client ID: SL20-2.0DUP

Sample Info: DFQQT103,4130-G.b,,all.sub,,,

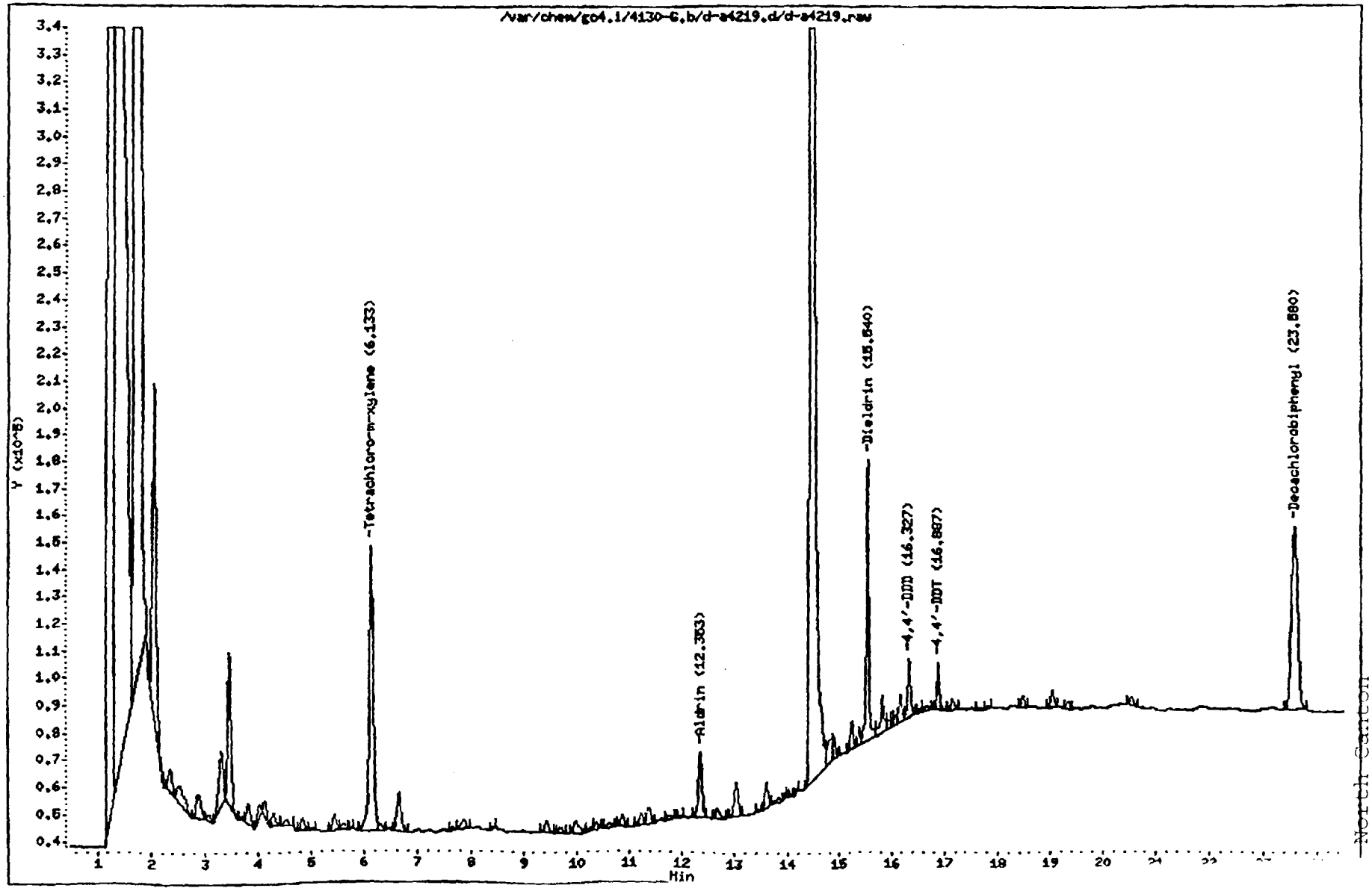
Volume Injected (uL): 1.0

Column phase: DB608

Instrument: go4.i

Operator: 01891

Column diameter: 0.53



North Canton

STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-b4219.d
Lab Smp Id: DFQQT103 Client Smp ID: SL20-2.0DUP
Inj Date : 14-JUL-2000 09:46
Operator : 01891 Inst ID: gc4.i
Smp Info : DFQQT103,4130-G.b,,all.sub,,,
Misc Info : 060146-13
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4B.m
Meth Date : 14-Jul-2000 12:14 g Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-b4199.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.40 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	GPC Correction factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.000	% Moisture

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.133	6.133	0.000	76676	0.03025	10.12	80.00- 120.00	100.00
2 Aroclor-1221					CAS #: 11104-28-2		

eaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

4 Aroclor-1232 CAS #: 11141-16-5

Peaks not detected for Quant. or Qual. signal(s).

---

5 alpha-BHC CAS #: 319-84-6

Compound Not Detected

---

3 Aroclor-1016 CAS #: 12674-11-2

Peaks not detected for Quant. or Qual. signal(s).

---

8 Aroclor-1242 CAS #: 53469-21-9

Peaks not detected for Quant. or Qual. signal(s).

---

6 gamma-BHC(Lindane) CAS #: 58-89-9

Compound Not Detected

---

9 Aroclor-1248 CAS #: 12672-29-6

Peaks not detected for Quant. or Qual. signal(s).

---

7 Heptachlor CAS #: 76-44-8

11.367	11.368	-0.001	42635	0.00293	0.9770	80.00- 120.00	100.00(a)

---

10 Aldrin CAS #: 309-00-2

12.260	12.260	0.000	105916	0.00842	2.808	80.00- 120.00	100.00

---

11 beta-BHC CAS #: 319-85-7

12.940	12.952	-0.012	21479	0.00334	1.112	80.00- 120.00	100.00(a)

---

12 delta-BHC CAS #: 319-86-8

Compound Not Detected

---

13 Heptachlor epoxide CAS #: 1024-57-3

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
14 Aroclor-1254					CAS #: 11097-69-1		
Peaks not detected for Quant. or Qual. signal(s).							
15 Endosulfan I					CAS #: 959-98-8		
Compound Not Detected							
16 gamma-Chlordane					CAS #: 5103-74-2		
14.973	14.972	0.001	17228	0.00512	1.708	80.00- 120.00	100.00
17 alpha-Chlordane					CAS #: 5103-71-9		
15.080	15.080	0.000	13103	0.00380	1.267	80.00- 120.00	100.00(a)
18 4,4'-DDE					CAS #: 72-55-9		
Compound Not Detected							
19 Dieldrin					CAS #: 60-57-1		
15.500	15.565	-0.065	811483	0.21279	70.93	80.00- 120.00	100.00(A)
21 Aroclor-1260					CAS #: 11096-82-5		
Peaks not detected for Quant. or Qual. signal(s).							
22 Endrin					CAS #: 72-20-8		
Compound Not Detected							
20 Toxaphene					CAS #: 8001-35-2		
Peaks not detected for Quant. or Qual. signal(s).							
23 4,4'-DDD					CAS #: 72-54-8		
16.533	16.532	0.001	18078	0.00649	2.163	80.00- 120.00	100.00(a)
24 Endosulfan II					CAS #: 33213-65-9		
Compound Not Detected							
25 4,4'-DDT					CAS #: 50-29-3		
16.853	16.852	0.001	15960	0.00561	1.871	80.00- 120.00	100.00(a)

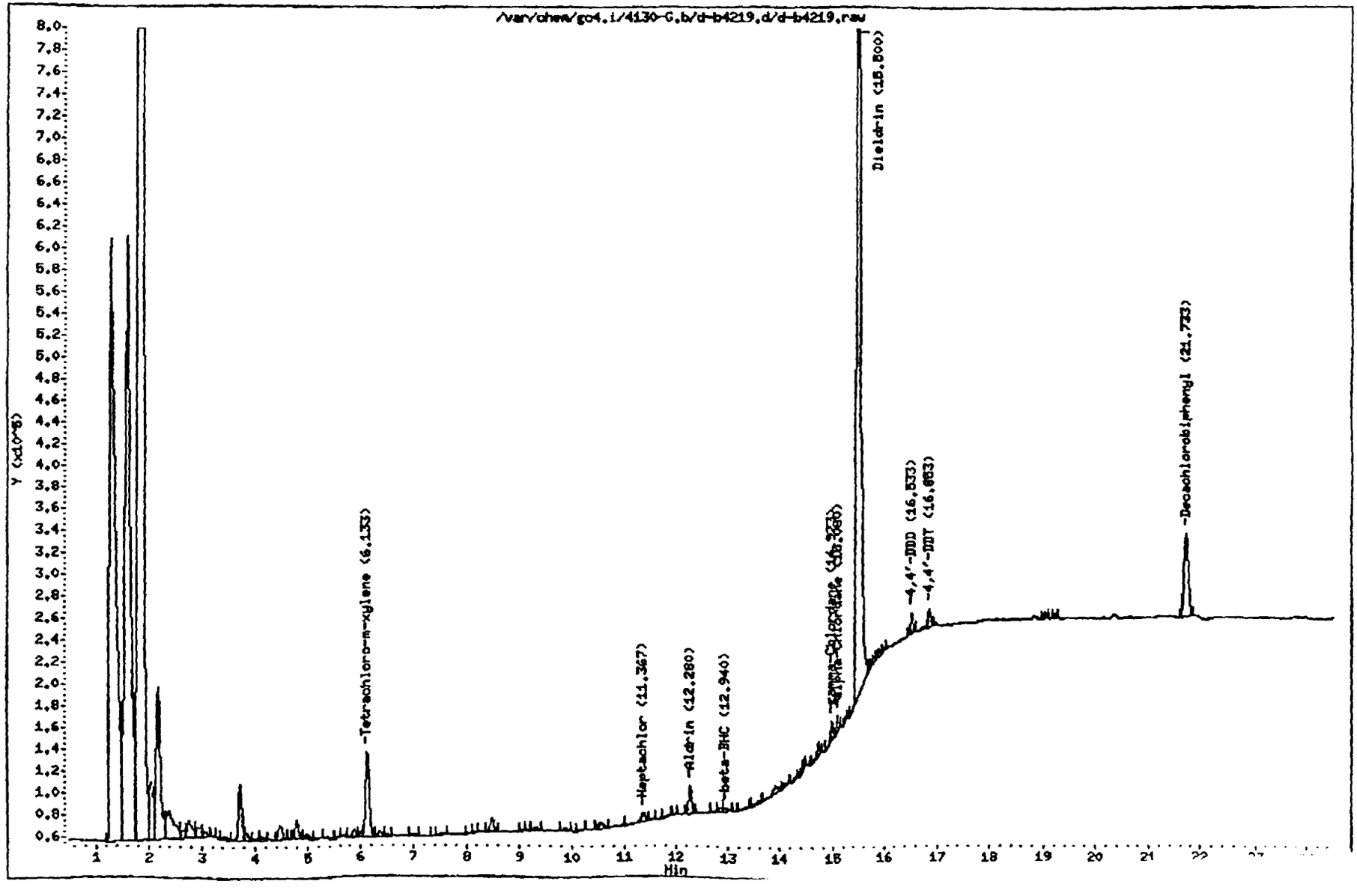
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
26 Endrin aldehyde					CAS #: 7421-93-4		
Compound Not Detected							
28 Methoxychlor					CAS #: 72-43-5		
Compound Not Detected							
27 Endosulfan sulfate					CAS #: 1031-07-8		
Compound Not Detected							
29 Endrin ketone					CAS #: 53494-70-5		
Compound Not Detected							
# 30 Decachlorobiphenyl					CAS #: 2051-24-3		
21.733	21.735	-0.002	75427	0.03860	12.83	60.00- 120.00	100.00

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /var/chem/go4.i/4130-G.b/d-b4219.d
Date : 14-JUL-2000 09:46
Client ID: SL20-2.0DUP
Sample Info: DFQQT103,4130-G.b,,all.sub,,,
Volume Injected (uL): 1.0
Column phase: DB1701

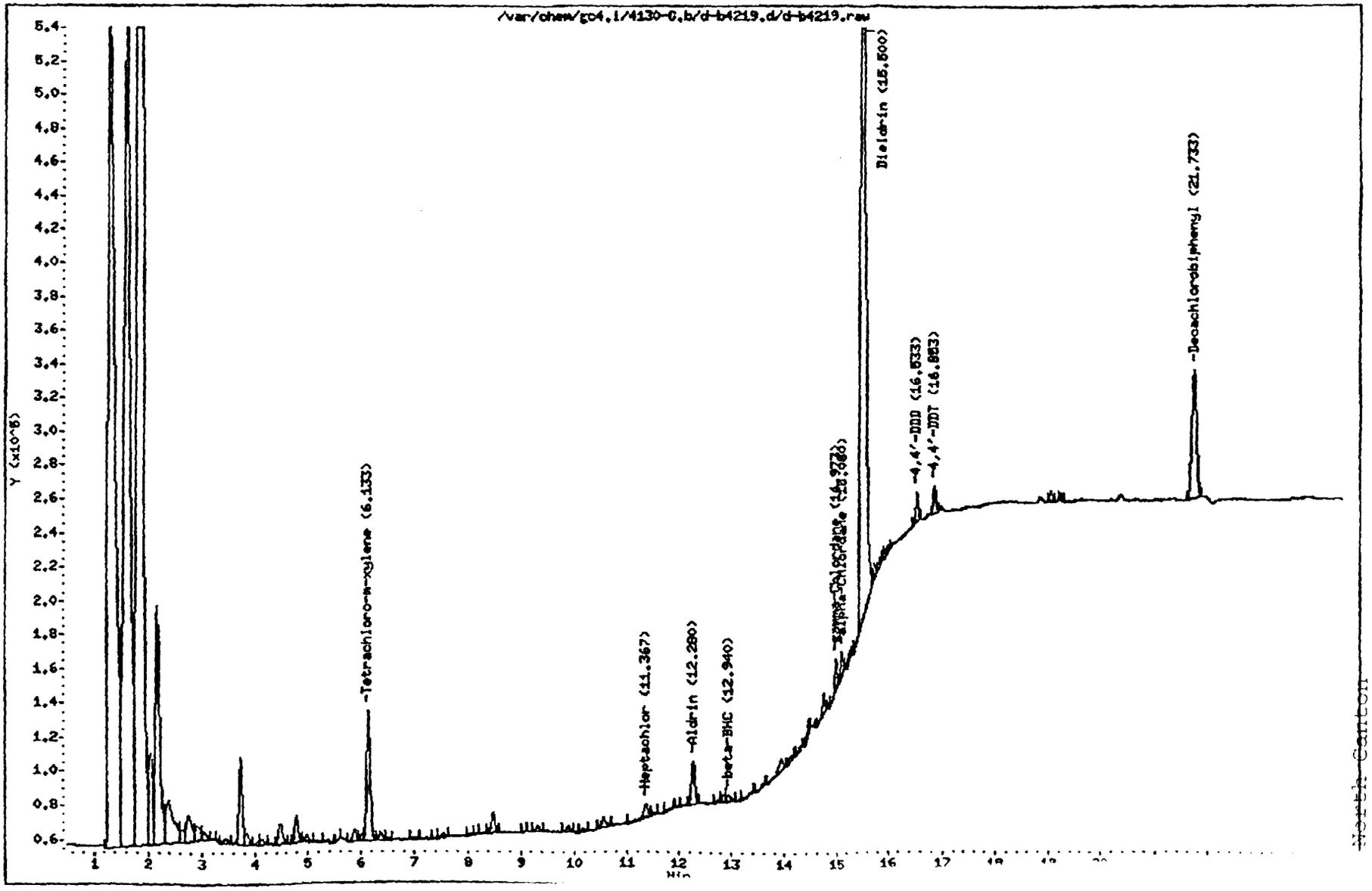
Instrument: go4.i
Operator: 01891
Column diameter: 0.53



North Canton

Data File: /var/chem/gc4.i/4130-G.b/d-b4219.d
Date : 14-JUL-2000 09:46
Client ID: SL20-2.0DUP
Sample Info: DFQQT103,4130-G.b,,all.sub,,,
Volume Injected (uL): 1.0
Column phase: DB1701

Instrument: gc4.i
Operator: 01891
Column diameter: 0.53



10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SL20-2.0DUP

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: 40325 SDG No.: G06146

Lab Sample ID: DFQQT103 Date(s) Analyzed: 07/14/00 07/14/00

Instrument ID (1): GC4 Instrument ID (2): GC4

GC Column(1): DB608 ID: 0.53(mm) GC Column(2): DB1701 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
Aldrin	1	12.35	12.30	12.40	3.067	
	2	12.28	12.23	12.33	2.808	9.2
Dieldrin	1	15.54	15.47	15.61	9.322	
	2	15.50	15.50	15.64	70.93	660.9
~~4,4'-DDD~~	1	16.33	16.26	16.40	~~2.382~~	
	2	16.53	16.46	~~16.60~~	2.163	10.1
4,4'-DDT	1	16.89	16.82	16.96	1.956	
	2	~~16.85~~	~~16.78~~	~~16.92~~	~~1.871~~	4.5
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

MM 7/14/00

FORM X PEST-1 OLM03.0

North Canton

PESTICIDE / PCB
CALIBRATION DATA

North Canton

6D

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: 40325 SDG No.: G06146

Instrument ID: GC4 Level (x low): low 1.0 mid 0.0 high 0.0

GC Column: DB608 ID: 0.53 (mm) Date(s) Analyzed: 07/13/00 07/14/00

COMPOUND	RT OF STANDARDS LOW	MID	HIGH	MEAN RT	RT WINDOW FROM	TO
alpha-BHC	8.51	8.51	8.51	8.51	8.46	8.56
beta-BHC	10.27	10.27	10.28	10.28	10.23	10.33
delta-BHC	11.63	11.64	11.64	11.64	11.59	11.69
gamma-BHC(Lindane)	9.99	9.99	9.99	9.99	9.94	10.04
Heptachlor	11.24	11.24	11.25	11.24	11.19	11.29
Aldrin	12.35	12.35	12.35	12.35	12.30	12.40
Heptachlor epoxide	14.16	14.16	14.16	14.16	14.09	14.23
Endosulfan I	14.96	14.96	14.96	14.96	14.89	15.03
Dieldrin	15.54	15.55	15.55	15.54	15.47	15.61
4,4'-DDE	15.38	15.38	15.38	15.38	15.31	15.45
Endrin	16.18	16.18	16.18	16.18	16.11	16.25
Endosulfan II	16.50	16.50	16.50	16.50	16.43	16.57
4,4'-DDD	16.33	16.33	16.33	16.33	16.26	16.40
Endosulfan sulfate	17.39	17.39	17.39	17.39	17.32	17.46
4,4'-DDT	16.89	16.89	16.89	16.89	16.82	16.96
Methoxychlor	18.85	18.85	18.85	18.85	18.78	18.92
Endrin ketone	19.35	19.35	19.35	19.35	19.28	19.42
Endrin aldehyde	17.13	17.13	17.13	17.13	17.06	17.20
alpha-Chlordane	14.90	14.90	14.90	14.90	14.83	14.97
gamma-Chlordane	14.55	14.55	14.55	14.55	14.48	14.62
Tetrachloro-m-xylene	6.14	6.14	6.14	6.14	6.09	6.19
Decachlorobiphenyl	23.59	23.59	23.59	23.59	23.49	23.69

* Surrogate retention times are measured from Standard Mix A analysis.

Retention time windows are +/- 0.05 minutes for all compounds that elute before Heptachlor Epoxide, +/- 0.07 minutes for all other compounds, except +/-0.10 minutes for Decachlorobiphenyl.

6D

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: 40325 SDG No.: G06146

Instrument ID: GC4 Level (x low): low 1.0 mid 0.0 high 0.0

GC Column: DB1701 ID: 0.53 (mm) Date(s) Analyzed: 07/13/00 07/14/00

COMPOUND	RT OF STANDARDS LOW	MID	HIGH	MEAN RT	RT WINDOW FROM	TO
alpha-BHC	9.06	9.07	9.07	9.06	9.02	9.12
beta-BHC	12.95	12.95	12.95	12.95	12.90	13.00
delta-BHC	13.76	13.76	13.76	13.76	13.71	13.81
gamma-BHC(Lindane)	10.55	10.56	10.56	10.56	10.51	10.61
Heptachlor	11.37	11.37	11.37	11.37	11.32	11.42
Aldrin	12.28	12.28	12.28	12.28	12.23	12.33
Heptachlor epoxide	14.29	14.29	14.29	14.29	14.22	14.36
Endosulfan I	14.90	14.90	14.90	14.90	14.83	14.97
Dieldrin	15.56	15.57	15.57	15.57	15.50	15.64
4,4'-DDE	15.24	15.24	15.25	15.24	15.17	15.31
Endrin	15.91	15.91	15.91	15.91	15.84	15.98
Endosulfan II	16.71	16.71	16.71	16.71	16.64	16.78
4,4'-DDD	16.53	16.53	16.53	16.53	16.46	16.60
Endosulfan sulfate	18.15	18.15	18.15	18.15	18.08	18.22
4,4'-DDT	16.85	16.85	16.85	16.85	16.78	16.92
Methoxychlor	18.03	18.03	18.05	18.03	17.96	18.10
Endrin ketone	19.23	19.23	19.23	19.23	19.16	19.30
Endrin aldehyde	17.48	17.48	17.48	17.48	17.41	17.55
alpha-Chlordane	15.08	15.08	15.08	15.08	15.01	15.15
gamma-Chlordane	14.97	14.97	14.97	14.97	14.90	15.04
Tetrachloro-m-xylene	6.13	6.13	6.13	6.13	6.08	6.18
Decachlorobiphenyl	21.73	21.73	21.74	21.74	21.64	21.84

* Surrogate retention times are measured from Standard Mix A analysis.

Retention time windows are +/- 0.05 minutes for all compounds that elute before Heptachlor Epoxide, +/- 0.07 minutes for all other compounds, except +/-0.10 minutes for Decachlorobiphenyl.

6E

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: 40325 SDG No.: G06146

Instrument ID: GC4 Level (x low): low 1.0 mid 0.0 high 0.0

GC Column: DB608 ID: 0.53 (mm) Date(s) Analyzed: 07/13/00 07/14/00

COMPOUND	CALIBRATION FACTORS LOW	MID	HIGH	MEAN	%RSD
alpha-BHC	3542400	4123050	4569025	4078158.3	12.6
beta-BHC	9019400	9009900	8860150	8963150.0	1.0
delta-BHC	2763200	3162750	3606925	3177625.0	13.3
gamma-BHC(Lindane)	3111800	3467250	3757600	3445550.0	9.4
Heptachlor	3056800	3194250	3457162	3236070.7	6.3
Aldrin	2455800	2597050	2918338	2657062.7	8.9
Heptachlor epoxide	2871200	3037100	3299425	3069241.7	7.0
Endosulfan I	2842000	3205250	3486350	3177866.7	10.2
Dieldrin	3387200	3696875	4004200	3696091.7	8.3
4,4'-DDE	3393200	3693175	3874019	3653464.7	6.6
Endrin	2505400	2715150	2937700	2719416.7	7.9
Endosulfan II	2825000	3027300	3136519	2996273.0	5.3
4,4'-DDD	2669400	3013100	3176031	2952843.7	8.8
Endosulfan sulfate	1766300	1987925	2247638	2000621.0	12.0
4,4'-DDT	2563600	2906400	3104081	2858027.0	9.6
Methoxychlor	1185820	1238800	1143898	1189506.0	4.0
Endrin ketone	1907800	2078325	2207162	2064429.0	7.3
Endrin aldehyde	2078100	2131525	2151950	2120525.0	1.8
alpha-Chlordane	3159000	3337650	3453238	3316629.3	4.5
gamma-Chlordane	3160600	3161700	3376212	3232837.3	3.8
Tetrachloro-m-xylene	3609200	3506800	3252850	3456283.3	5.3
Decachlorobiphenyl	1745900	1751975	1644081	1713985.3	3.5

* Surrogate calibration factors are measured from Standard Mix A analysis.

6E

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: 40325 SDG No.: G06146

Instrument ID: GC4 Level (x low): low 1.0 mid 0.0 high 0.0

GC Column: DB1701 ID: 0.53 (mm) Date(s) Analyzed: 07/13/00 07/14/00

COMPOUND	CALIBRATION FACTORS LOW	MID	HIGH	MEAN	%RSD
alpha-BHC	2766800	3252600	3931050	3316816.7	17.6
beta-BHC	6144000	6436250	6676025	6418758.3	4.2
delta-BHC	2596400	2932950	3399075	2976141.7	13.5
gamma-BHC(Lindane)	2655000	3057000	3513500	3075166.7	14.0
Heptachlor	13374400	14546100	16339500	14753333.3	10.1
Aldrin	16120000	12571800	14058400	14250066.7	12.5
Heptachlor epoxide	14165200	12099250	12443725	12902725.0	8.6
Endosulfan I	3093600	3382450	3564500	3346850.0	7.1
Dieldrin	3529600	3813600	4071894	3805031.3	7.1
4,4'-DDE	3476900	3643450	3639275	3586541.7	2.6
Endrin	2842700	2978775	3057088	2959521.0	3.7
Endosulfan II	3056800	2971025	3001738	3009854.3	1.4
4,4'-DDD	2591000	2785850	2887762	2754870.7	5.5
Endosulfan sulfate	1781300	1902100	2039688	1907696.0	6.8
4,4'-DDT	2713800	2843475	2981800	2846358.3	4.7
Methoxychlor	1299860	1361415	930791	1197355.3	19.4
Endrin ketone	1915000	2002825	2049262	1989029.0	3.4
Endrin aldehyde	1306700	1396475	1454925	1386033.3	5.4
alpha-Chlordane	3286200	3447700	3530925	3421608.3	3.6
gamma-Chlordane	3269000	3362600	3577850	3403150.0	4.6
Tetrachloro-m-xylene	2496800	2532700	2441138	2490212.7	1.8
Decachlorobiphenyl	1881500	1959250	1913200	1917983.3	2.0

* Surrogate calibration factors are measured from Standard Mix A analysis.

6F

PESTICIDE INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: 40325 SDG No.: G06146

Instrument ID: GC4 Date(s) Analyzed: 07/13/00 07/14/00

GC Column: DB608 ID: 0.53 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	0.50	*1	16.36	16.29	16.43	35490
		*2	16.54	16.47	16.61	53326
		*3	16.95	16.88	17.02	34482
		4	18.28	18.21	18.35	44000
		5				
Aroclor-1016	0.10	*1	8.36	8.29	8.43	74710
		*2	9.91	9.84	9.98	131090
		*3	11.05	10.98	11.12	54990
		4	11.31	11.24	11.38	191110
		5	11.85	11.78	11.92	88970
Aroclor-1221	0.20	*1	7.59	7.52	7.66	37915
		*2	8.13	8.06	8.20	29230
		*3	8.35	8.28	8.42	88395
		4				
		5				
Aroclor-1232	0.10	*1	8.35	8.28	8.42	65850
		*2	9.91	9.84	9.98	50950
		*3	11.30	11.23	11.37	71290
		4	11.86	11.79	11.93	34460
		5				
Aroclor-1242	0.10	*1	8.35	8.28	8.42	65940
		*2	9.91	9.84	9.98	105340
		*3	11.30	11.23	11.37	153460
		4	11.85	11.78	11.92	71720
		5	13.49	13.42	13.56	61770
Aroclor-1248	0.10	*1	13.49	13.42	13.56	88020
		*2	14.07	14.00	14.14	67120
		*3	14.20	14.13	14.27	123090
		4	14.35	14.28	14.42	128980
		5	14.97	14.90	15.04	117550
Aroclor-1254	0.10	*1	14.54	14.47	14.61	156140
		*2	14.67	14.60	14.74	171850
		*3	15.67	15.60	15.74	306530
		4	15.85	15.78	15.92	253710
		5	16.88	16.81	16.95	191380
Aroclor-1260	0.10	*1	15.95	15.88	16.02	220590
		*2	16.09	16.02	16.16	247040
		*3	16.88	16.81	16.95	186440
		4	17.99	17.92	18.06	309510
		5	19.21	19.14	19.28	133310

* Denotes required peaks

FORM VI PEST-3 OLM03.0

6F

PESTICIDE INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: 40325 SDG No.: G06146

Instrument ID: GC4 Date(s) Analyzed: 07/13/00 07/14/00

GC Column: DB1701 ID: 0.53 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	0.50	*1	16.07	16.00	16.14	58030
		*2	16.39	16.32	16.46	58634
		*3	16.57	16.50	16.64	51062
		4	16.75	16.68	16.82	46602
		5				
Aroclor-1016	0.10	*1	8.03	7.96	8.10	52480
		*2	9.33	9.26	9.40	97070
		*3	11.05	10.98	11.12	199930
		4	11.49	11.42	11.56	76780
		5	11.82	11.75	11.89	73310
Aroclor-1221	0.20	*1	7.29	7.22	7.36	24365
		*2	7.81	7.74	7.88	19170
		*3	8.03	7.96	8.10	67610
		4				
		5				
Aroclor-1232	0.10	*1	8.03	7.96	8.10	46730
		*2	9.33	9.26	9.40	35850
		*3	11.05	10.98	11.12	73250
		4	11.49	11.42	11.56	25730
		5				
Aroclor-1242	0.10	*1	9.33	9.26	9.40	76500
		*2	11.05	10.98	11.12	159340
		*3	11.49	11.42	11.56	60360
		4	11.82	11.75	11.89	57740
		5	12.95	12.88	13.02	51050
Aroclor-1248	0.10	*1	11.05	10.98	11.12	117820
		*2	12.20	12.13	12.27	67840
		*3	12.95	12.88	13.02	69350
		4	13.27	13.20	13.34	69860
		5	13.87	13.80	13.94	53130
Aroclor-1254	0.10	*1	14.52	14.45	14.59	109870
		*2	15.39	15.32	15.46	200280
		*3	15.80	15.73	15.87	150130
		4	15.99	15.92	16.06	103600
		5	16.58	16.51	16.65	159440
Aroclor-1260	0.10	*1	15.99	15.92	16.06	216310
		*2	16.58	16.51	16.65	190790
		*3	16.64	16.57	16.71	171810
		4	17.79	17.72	17.86	329920
		5	18.61	18.54	18.68	171510

* Denotes required peaks

6G

PESTICIDE ANALYTE RESOLUTION SUMMARY

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: 40325 SDG No.: G06146

GC Column (1): DB608 ID: 0.53 (mm) Instrument ID (1): GC4

EPA Sample No. (Standard 1): RESCHA Lab Sample ID (1): RESCHA

Date Analyzed (1): 07/13/00 Time Analyzed (1): 1804

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	6.14	100.0
02	gamma-Chlordane	14.55	100.0
03	Endosulfan I	14.96	100.0
04	4,4'-DDE	15.38	100.0
05	Dieldrin	15.54	100.0
06	Endosulfan sulfate	17.39	100.0
07	Methoxychlor	18.85	100.0
08	Endrin ketone	19.35	100.0
09	Decachlorobiphenyl	23.59	

GC Column (2): DB1701 ID: 0.53 (mm) Instrument ID (2): GC4

EPA Sample No. (Standard 2): RESCHA Lab Sample ID (2): RESCHA

Date Analyzed (2): 07/13/00 Time Analyzed (2): 1804

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	6.13	100.0
02	Endosulfan I	14.89	66 ~~100.~~0
03	gamma-Chlordane	14.97	100.0
04	4,4'-DDE	15.24	100.0
05	Dieldrin	15.56	100.0
06	Methoxychlor	18.03	63 ~~100.~~0
07	Endosulfan sulfate	18.15	100.0
08	Endrin ketone	19.23	100.0
09	Decachlorobiphenyl	21.73	

um 7/14/00

FORM VI PEST-4 OLM03.0

6H
PERFORMACE EVALUATION MIXTURE (PEM)

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: 40325 SDG No.: G06146

GC Column (1): DB608 ID: 0.53 (mm) Instrument ID (1): GC4

EPA Sample No. (Standard 1): PEMHA Lab Sample ID (1): PEMHA

Date Analyzed (1): 07/13/00 Time Analyzed (1): 1832

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	6.14	100.0
02	alpha-BHC	8.51	100.0
03	gamma-BHC(Lindane)	9.99	100.0
04	beta-BHC	10.28	100.0
05	Endrin	16.18	100.0
06	4,4'-DDT	16.89	100.0
07	Methoxychlor	18.85	100.0
08	Decachlorobiphenyl	23.59	

GC Column (2): DB1701 ID: 0.53 (mm) Instrument ID (2): GC4

EPA Sample No. (Standard 2): PEMHA Lab Sample ID (2): PEMHA

Date Analyzed (2): 07/13/00 Time Analyzed (2): 1832

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	6.13	100.0
02	alpha-BHC	9.06	100.0
03	gamma-BHC(Lindane)	10.56	100.0
04	beta-BHC	12.95	100.0
05	Endrin	15.91	100.0
06	4,4'-DDT	16.85	100.0
07	Methoxychlor	18.03	100.0
08	Decachlorobiphenyl	21.73	

6H
PERFORMACE EVALUATION MIXTURE (PEM)

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: 40325 SDG No.: G06146

GC Column (1): DB608 ID: 0.53 (mm) Instrument ID (1): GC4

EPA Sample No. (Standard 1): PEMHB Lab Sample ID (1): PEMHB

Date Analyzed (1): 07/14/00 Time Analyzed (1): 0128

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	6.14	100.0
02	alpha-BHC	8.51	100.0
03	gamma-BHC(Lindane)	9.99	100.0
04	beta-BHC	10.28	100.0
05	Endrin	16.18	100.0
06	4,4'-DDT	16.89	100.0
07	Methoxychlor	18.85	100.0
08	Decachlorobiphenyl	23.59	

GC Column (2): DB1701 ID: 0.53 (mm) Instrument ID (2): GC4

EPA Sample No. (Standard 2): PEMHB Lab Sample ID (2): PEMHB

Date Analyzed (2): 07/14/00 Time Analyzed (2): 0128

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	6.13	100.0
02	alpha-BHC	9.07	100.0
03	gamma-BHC(Lindane)	10.56	100.0
04	beta-BHC	12.95	100.0
05	Endrin	15.91	100.0
06	4,4'-DDT	16.85	100.0
07	Methoxychlor	18.03	100.0
08	Decachlorobiphenyl	21.73	

6I
INDIVIDUAL STANDARD MIXTURE A

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: 40325 SDG No.: G06146

GC Column (1): DB608 ID: 0.53 (mm) Instrument ID (1): GC4

EPA Sample No. (Standard 1): INDAMHA Lab Sample ID (1): INDAMHA

Date Analyzed (1): 07/13/00 Time Analyzed (1): 2309

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	6.14	100.0
02	alpha-BHC	8.51	100.0
03	gamma-BHC(Lindane)	9.99	100.0
04	Heptachlor	11.24	100.0
05	Endosulfan I	14.96	100.0
06	Dieldrin	15.55	100.0
07	Endrin	16.18	100.0
08	4,4'-DDD	16.33	100.0
09	4,4'-DDT	16.89	100.0
10	Methoxychlor	18.85	100.0
11	Decachlorobiphenyl	23.59	

GC Column (2): DB1701 ID: 0.53 (mm) Instrument ID (2): GC4

EPA Sample No. (Standard 2): INDAMHA Lab Sample ID (2): INDAMHA

Date Analyzed (2): 07/13/00 Time Analyzed (2): 2309

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	6.13	100.0
02	alpha-BHC	9.07	100.0
03	gamma-BHC(Lindane)	10.56	100.0
04	Heptachlor	11.37	100.0
05	Endosulfan I	14.90	100.0
06	Dieldrin	15.57	100.0
07	Endrin	15.91	100.0
08	4,4'-DDD	16.53	100.0
09	4,4'-DDT	16.85	100.0
10	Methoxychlor	18.03	100.0
11	Decachlorobiphenyl	21.73	

6J
INDIVIDUAL STANDARD MIXTURE B

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: 40325 SDG No.: G06146

GC Column (1): DB608 ID: 0.53 (mm) Instrument ID (1): GC4

EPA Sample No. (Standard 1): INDBMHA Lab Sample ID (1): INDBMHA

Date Analyzed (1): 07/13/00 Time Analyzed (1): 2337

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	6.14	100.0
02	beta-BHC	10.27	100.0
03	delta-BHC	11.64	100.0
04	Aldrin	12.35	100.0
05	Heptachlor epoxide	14.16	100.0
06	gamma-Chlordane	14.55	100.0
07	alpha-Chlordane	14.90	100.0
08	4,4'-DDE	15.38	100.0
09	Endosulfan II	16.50	100.0
10	Endrin aldehyde	17.13	100.0
11	Endosulfan sulfate	17.39	100.0
12	Endrin ketone	19.35	100.0
13	Decachlorobiphenyl	23.59	

GC Column (2): DB1701 ID: 0.53 (mm) Instrument ID (2): GC4

EPA Sample No. (Standard 2): INDBMHA Lab Sample ID (2): INDBMHA

Date Analyzed (2): 07/13/00 Time Analyzed (2): 2337

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	6.13	100.0
02	Aldrin	12.28	100.0
03	beta-BHC	12.95	100.0
04	delta-BHC	13.76	100.0
05	Heptachlor epoxide	14.29	100.0
06	gamma-Chlordane	14.97	100.0
07	alpha-Chlordane	15.08	100.0
08	4,4'-DDE	15.24	100.0
09	Endosulfan II	16.71	100.0
10	Endrin aldehyde	17.48	100.0
11	Endosulfan sulfate	18.15	100.0
12	Endrin ketone	19.23	100.0
13	Decachlorobiphenyl	21.73	

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: 40325 SDG No.: G06146

GC Column: DB608 ID: 0.53 (mm) Init. Calib. Date(s): 07/13/00 07/14/00

EPA Sample No.(PIBLK): _____ Date Analyzed :_____

Lab Sample ID (PIBLK): _____ Time Analyzed :_____

EPA Sample No.(PEM): PEMHA Date Analyzed :07/13/00

Lab Sample ID (PEM): PEMHA Time Analyzed :1832

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	8.51	8.46	8.56	0.008485	0.01000	-15.2
beta-BHC	10.28	10.23	10.33	0.009414	0.01000	-5.9
gamma-BHC(Lindane)	9.99	9.94	10.04	0.008903	0.01000	-11.0
Endrin	16.18	16.11	16.25	0.05263	0.05000	5.3
4,4'-DDT	16.89	16.82	16.96	0.09746	0.1000	-2.5
Methoxychlor	18.85	18.78	18.92	0.2363	0.2500	-5.5

4,4'-DDT % breakdown (1): 1.48 Endrin % breakdown (1): 7.24

Combined % breakdown (1): 8.72

FORM VII PEST-1 OLM03.0

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: 40325 SDG No.: G06146

GC Column: DB1701 ID: 0.53 (mm) Init. Calib. Date(s): 07/13/00 07/14/00

EPA Sample No.(PIBLK): _____ Date Analyzed :_____

Lab Sample ID (PIBLK): _____ Time Analyzed :_____

EPA Sample No.(PEM): PEMHA Date Analyzed :07/13/00

Lab Sample ID (PEM): PEMHA Time Analyzed :1832

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	9.06	9.02	9.12	0.008420	0.01000	-15.8
beta-BHC	12.95	12.90	13.00	0.009233	0.01000	-7.7
gamma-BHC(Lindane)	10.56	10.51	10.61	0.008643	0.01000	-13.6
Endrin	15.91	15.84	15.98	0.05195	0.05000	3.9
4,4'-DDT	16.85	16.78	16.92	0.09393	0.1000	-6.1
Methoxychlor	18.03	17.96	18.10	0.2280	0.2500	-8.8

4,4'-DDT % breakdown (1): 0.63 Endrin % breakdown (1): 6.73

Combined % breakdown (1): 7.36

FORM VII PEST-1 OLM03.0

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: 40325 SDG No.: G06146

GC Column: DB608 ID: 0.53 (mm) Init. Calib. Date(s): 07/13/00 07/14/00

EPA Sample No.(PIBLK): PIBLKHA Date Analyzed :07/14/00

Lab Sample ID (PIBLK): PIBLKHA Time Analyzed :0100

EPA Sample No.(PEM): PEMHB Date Analyzed :07/14/00

Lab Sample ID (PEM): PEMHB Time Analyzed :0128

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	8.51	8.46	8.56	0.008281	0.01000	-17.2
beta-BHC	10.28	10.23	10.33	0.009258	0.01000	-7.4
gamma-BHC(Lindane)	9.99	9.94	10.04	0.008727	0.01000	-12.7
Endrin	16.18	16.11	16.25	0.04888	0.05000	-2.2
4,4'-DDT	16.89	16.82	16.96	0.09467	0.1000	-5.3
Methoxychlor	18.85	18.78	18.92	0.2251	0.2500	-10.0

4,4'-DDT % breakdown (1): 1.39 Endrin % breakdown (1): 9.72

Combined % breakdown (1): 11.11

FORM VII PEST-1 OLM03.0

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: 40325 SDG No.: G06146

GC Column: DB1701 ID: 0.53 (mm) Init. Calib. Date(s): 07/13/00 07/14/00

EPA Sample No.(PIBLK): PIBLKHA Date Analyzed :07/14/00

Lab Sample ID (PIBLK): PIBLKHA Time Analyzed :0100

EPA Sample No.(PEM): PEMHB Date Analyzed :07/14/00

Lab Sample ID (PEM): PEMHB Time Analyzed :0128

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	9.07	9.02	9.12	0.008168	0.01000	-18.3
beta-BHC	12.95	12.90	13.00	0.009067	0.01000	-9.3
gamma-BHC(Lindane)	10.56	10.51	10.61	0.008502	0.01000	-15.0
Endrin	15.91	15.84	15.98	0.04886	0.05000	-2.3
4,4'-DDT	16.85	16.78	16.92	0.09323	0.1000	-6.8
Methoxychlor	18.03	17.96	18.10	0.2228	0.2500	-10.9

4,4'-DDT % breakdown (1): 0.60 Endrin % breakdown (1): 8.37

Combined % breakdown (1): 8.98

FORM VII PEST-1 OLM03.0

7E
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: 40325 SDG No.: G06146

GC Column: DB608 ID: 0.53 (mm) Init. Calib. Date(s): 07/13/00 07/14/00

EPA Sample No.(PIBLK): PIBLKHB Date Analyzed :07/14/00

Lab Sample ID (PIBLK): PIBLKHB Time Analyzed :1041

EPA Sample No.(INDA): INDAMHB Date Analyzed :07/14/00

Lab Sample ID (INDA): INDAMHB Time Analyzed :1109

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	8.49	8.46	8.56	0.01997	0.02000	-0.1
gamma-BHC(Lindane)	9.98	9.94	10.04	0.02022	0.02000	1.1
Heptachlor	11.23	11.19	11.29	0.02003	0.02000	0.1
Endosulfan I	14.95	14.89	15.03	0.02012	0.02000	0.6
Dieldrin	15.54	15.47	15.61	0.04035	0.04000	0.9
Endrin	16.17	16.11	16.25	0.03940	0.04000	-1.5
4,4'-DDD	16.32	16.26	16.40	0.04002	0.04000	0.0
4,4'-DDT	16.88	16.82	16.96	0.04008	0.04000	0.2
Methoxychlor	18.84	18.78	18.92	0.2015	0.2000	0.8
Tetrachloro-m-xylene	6.13	6.09	6.19	0.01945	0.02000	-2.8
Decachlorobiphenyl	23.57	23.49	23.69	0.04020	0.04000	0.5

EPA Sample No.(INDB): INDBMHB Date Analyzed :07/14/00

Lab Sample ID (INDB): INDBMHB Time Analyzed :1137

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
beta-BHC	10.27	10.23	10.33	0.02029	0.02000	1.4
delta-BHC	11.63	11.59	11.69	0.02101	0.02000	5.0
Aldrin	12.35	12.30	12.40	0.02035	0.02000	1.8
Heptachlor epoxide	14.15	14.09	14.23	0.01985	0.02000	-0.8
4,4'-DDE	15.37	15.31	15.45	0.04026	0.04000	0.6
Endosulfan II	16.49	16.43	16.57	0.04037	0.04000	0.9
Endosulfan sulfate	17.37	17.32	17.46	0.04584	0.04000	14.6
Endrin ketone	19.35	19.28	19.42	0.04576	0.04000	14.4
Endrin aldehyde	17.13	17.06	17.20	0.04095	0.04000	2.4
alpha-Chlordane	14.89	14.83	14.97	0.02032	0.02000	1.6
gamma-Chlordane	14.54	14.48	14.62	0.02046	0.02000	2.3
Tetrachloro-m-xylene	6.13	6.09	6.19	0.01886	0.02000	-5.7
Decachlorobiphenyl	23.57	23.49	23.69	0.03795	0.04000	-5.1

7E
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: 40325 SDG No.: G06146

GC Column: DB1701 ID: 0.53 (mm) Init. Calib. Date(s): 07/13/00 07/14/00

EPA Sample No.(PIBLK): PIBLKHB Date Analyzed :07/14/00

Lab Sample ID (PIBLK): PIBLKHB Time Analyzed :1041

EPA Sample No.(INDA): INDAMHB Date Analyzed :07/14/00

Lab Sample ID (INDA): INDAMHB Time Analyzed :1109

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	9.06	9.02	9.12	0.02008	0.02000	0.4
gamma-BHC(Lindane)	10.55	10.51	10.61	0.01995	0.02000	-0.2
Heptachlor	11.36	11.32	11.42	0.02000	0.02000	0.0
Endosulfan I	14.89	14.83	14.97	0.02039	0.02000	2.0
Dieldrin	15.56	15.50	15.64	0.04098	0.04000	2.4
Endrin	15.91	15.84	15.98	0.03918	0.04000	-2.0
4,4'-DDD	16.53	16.46	16.60	0.04037	0.04000	0.9
4,4'-DDT	16.85	16.78	16.92	0.04018	0.04000	0.4
Methoxychlor	18.02	17.96	18.10	0.1976	0.2000	-1.2
Tetrachloro-m-xylene	6.13	6.08	6.18	0.01932	0.02000	-3.4
Decachlorobiphenyl	21.73	21.64	21.84	0.04028	0.04000	0.7

EPA Sample No.(INDB): INDBMHB Date Analyzed :07/14/00

Lab Sample ID (INDB): INDBMHB Time Analyzed :1137

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
beta-BHC	12.95	12.90	13.00	0.01989	0.02000	-0.5
delta-BHC	13.75	13.71	13.81	0.02132	0.02000	6.6
Aldrin	12.28	12.23	12.33	0.02041	0.02000	2.0
Heptachlor epoxide	14.28	14.22	14.36	0.02022	0.02000	1.1
4,4'-DDE	15.24	15.17	15.31	0.04023	0.04000	0.6
Endosulfan II	16.70	16.64	16.78	0.04136	0.04000	3.4
Endosulfan sulfate	18.14	18.08	18.22	0.04133	0.04000	3.3
Endrin ketone	19.22	19.16	19.30	0.04453	0.04000	11.3
Endrin aldehyde	17.47	17.41	17.55	0.04026	0.04000	0.6
alpha-Chlordane	15.08	15.01	15.15	0.01969	0.02000	-1.6
gamma-Chlordane	14.97	14.90	15.04	0.02042	0.02000	2.1
Tetrachloro-m-xylene	6.13	6.08	6.18	0.01876	0.02000	-6.2
Decachlorobiphenyl	21.73	21.64	21.84	0.03774	0.04000	-5.6

FORM VII PEST-2 OLM03.0

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: 40325 SDG No.: G06146

GC Column: DB608 ID: 0.53 (mm) Init. Calib. Date(s): 07/13/00 07/14/00

Instrument ID: GC4

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 6.14 DCB: 23.59

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESCHA	RESCHA	07/13/00	1804	6.14	23.59
02	PEMHA	PEMHA	07/13/00	1832	6.14	23.59
03	AR1660HA	AR1660HA	07/13/00	1859	6.14	23.59
04	AR1221HA	AR1221HA	07/13/00	1927	6.14	23.59
05	AR1232HA	AR1232HA	07/13/00	1955	6.14	23.59
06	AR1242HA	AR1242HA	07/13/00	2023	6.14	23.58
07	AR1248HA	AR1248HA	07/13/00	2050	6.14	23.59
08	AR1254HA	AR1254HA	07/13/00	2118	6.14	23.59
09	TOXHA	TOXHA	07/13/00	2146	6.14	23.59
10	INDALHA	INDALHA	07/13/00	2214	6.14	23.59
11	INDBLHA	INDBLHA	07/13/00	2241	6.14	23.59
12	INDAMHA	INDAMHA	07/13/00	2309	6.14	23.59
13	INDBMHA	INDBMHA	07/13/00	2337	6.14	23.59
14	INDAHHA	INDAHHA	07/14/00	0004	6.14	23.59
15	INDBHHA	INDBHHA	07/14/00	0032	6.14	23.59
16	PIBLKHA	PIBLKHA	07/14/00	0100	6.14	23.59
17	PEMHB	PEMHB	07/14/00	0128	6.14	23.59
18	SL12-1.0	DFQLJ103	07/14/00	0155	6.13	23.59
19	SL12-1.0MS	DFQLJ104	07/14/00	0223	6.13	23.59
20	SL12-1.0MSD	DFQLJ105	07/14/00	0251	6.13	23.59
21	SL12-3.5	DFQPJ103	07/14/00	0318	6.14	23.58
22	SL13-1.5	DFQPM103	07/14/00	0346	6.14	23.59
23	SL13-3.5	DFQPW103	07/14/00	0414	6.14	23.59
24	SL14-3.0	DFQQ0103	07/14/00	0441	6.14	23.59
25	SL15-3.0	DFQQ3103	07/14/00	0509	6.14	23.59
26	SL16-1.0	DFQQ4103	07/14/00	0537	6.14	23.59
27	SL16-1.0DIL	DFQQ4203DIL	07/14/00	0604		
28	SL17-1.0	DFQQ5103	07/14/00	0632		
29	SL17-1.0DIL	DFQQ5203DIL	07/14/00	0700		
30	SL17-3.0	DFQQ9103	07/14/00	0727		23.59
31	SL17-3.0DIL	DFQQ9203DIL	07/14/00	0755		
32	SL18-2.5	DFQQC103	07/14/00	0823	6.14	23.58

QC LIMITS
TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PEST OLM03.0

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: 40325 SDG No.: G06146

GC Column: DB608 ID: 0.53 (mm) Init. Calib. Date(s): 07/13/00 07/14/00

Instrument ID: GC4

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 6.14 DCB: 23.59

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	SL19-1.0	DFQQN103	07/14/00	0850	6.14	23.57
02	SL20-2.0	DFQQP103	07/14/00	0918	6.14	23.58
03	SL20-2.0DUP	DFQQT103	07/14/00	0946	6.13	23.58
04	PBLK1	DG1PV101	07/14/00	1013	6.13	23.57
05	PIBLKHB	PIBLKHB	07/14/00	1041	6.13	23.57
06	INDAMHB	INDAMHB	07/14/00	1109	6.13	23.57
07	INDEMHB	INDEMHB	07/14/00	1137	6.13	23.57
08						
09						
10						
11						
12						
13						
14						
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16						
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22						
23						
24						
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26						
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28						
29						
30						
31						
32						

QC LIMITS
TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: 40325 SDG No.: G06146

GC Column: DB1701 ID: 0.53 (mm) Init. Calib. Date(s): 07/13/00 07/14/00

Instrument ID: GC4

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 6.13 DCB: 21.74

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESCHA	RESCHA	07/13/00	1804	6.13	21.73
02	PEMHA	PEMHA	07/13/00	1832	6.13	21.73
03	AR1660HA	AR1660HA	07/13/00	1859	6.13	21.73
04	AR1221HA	AR1221HA	07/13/00	1927	6.13	21.73
05	AR1232HA	AR1232HA	07/13/00	1955	6.13	21.73
06	AR1242HA	AR1242HA	07/13/00	2023	6.13	21.73
07	AR1248HA	AR1248HA	07/13/00	2050	6.13	21.73
08	AR1254HA	AR1254HA	07/13/00	2118	6.13	21.73
09	TOXHA	TOXHA	07/13/00	2146	6.13	21.73
10	INDALHA	INDALHA	07/13/00	2214	6.13	21.73
11	INDBLHA	INDBLHA	07/13/00	2241	6.13	21.73
12	INDAMHA	INDAMHA	07/13/00	2309	6.13	21.73
13	INDBMHA	INDBMHA	07/13/00	2337	6.13	21.73
14	INDAHHA	INDAHHA	07/14/00	0004	6.13	21.74
15	INDBHHA	INDBHHA	07/14/00	0032	6.13	21.74
16	PIBLKHA	PIBLKHA	07/14/00	0100	6.13	21.73
17	PEMHB	PEMHB	07/14/00	0128	6.13	21.73
18	SL12-1.0	DFQLJ103	07/14/00	0155	6.13	21.73
19	SL12-1.0MS	DFQLJ104	07/14/00	0223	6.13	21.73
20	SL12-1.0MSD	DFQLJ105	07/14/00	0251	6.13	21.73
21	SL12-3.5	DFQPJ103	07/14/00	0318	6.13	21.73
22	SL13-1.5	DFQPM103	07/14/00	0346	6.13	21.74
23	SL13-3.5	DFQPW103	07/14/00	0414	6.14	21.73
24	SL14-3.0	DFQQ0103	07/14/00	0441	6.14	21.74
25	SL15-3.0	DFQQ3103	07/14/00	0509	6.14	21.74
26	SL16-1.0	DFQQ4103	07/14/00	0537	6.13	
27	SL16-1.0DIL	DFQQ4203DIL	07/14/00	0604	6.13	
28	SL17-1.0	DFQQ5103	07/14/00	0632	6.13	
29	SL17-1.0DIL	DFQQ5203DIL	07/14/00	0700	6.13	
30	SL17-3.0	DFQQ9103	07/14/00	0727	6.13	
31	SL17-3.0DIL	DFQQ9203DIL	07/14/00	0755	6.13	
32	SL18-2.5	DFQQC103	07/14/00	0823	6.13	21.73

QC LIMITS
TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PEST OLM03.0

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: 40325 SDG No.: G06146

GC Column: DB1701 ID: 0.53 (mm) Init. Calib. Date(s): 07/13/00 07/14/00

Instrument ID: GC4

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 6.13 DCB: 21.74

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	SL19-1.0	DFQQN103	07/14/00	0850	6.13	21.73
02	SL20-2.0	DFQQP103	07/14/00	0918	6.14	21.73
03	SL20-2.0DUP	DFQQT103	07/14/00	0946	6.13	21.73
04	~~ZZZZZ~~ PQLX1	~~ZZZZZ~~ DGHN101	07/14/00	1013	6.13	21.73
05	PIBLKHB	PIBLKHB	07/14/00	1041	6.13	21.73
06	INDAMHB KM 7/14/00	INDAMHB	07/14/00	1109	6.13	21.73
07	INDEMHB	INDEMHB	07/14/00	1137	6.13	21.73
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
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22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

QC LIMITS
TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

9A
PESTICIDE FLORISIL CARTRIDGE CHECK

Lab Name: QUANTERRA, PITTSBURGH Contract:

Lab Code: QESPIT Case No.: SAS No.: 40325 SDG No.:
Florisil Cartridge Lot Number: FLO8699 Date of Analysis: 08/06/99

GC Column (1): RTX-CLP2 ID: 0.53(mm) GC Column (2): RTX-CLP ID: 0.53(mm)

COMPOUND	SPIKE ADDED ()	SPIKE RECOVERED ()	% REC #	QC LIMITS
alpha-BHC	0.010	0.0090	90	80-120
2,4,5-Trichlorophenol	0.050	0.0	0	0- 5
gamma-BHC(Lindane)	0.010	0.0091	91	80-120
Heptachlor	0.010	0.0089	89	80-120
Endosulfan I	0.010	0.0094	94	80-120
Dieldrin	0.020	0.019	95	80-120
Endrin	0.020	0.018	90	80-120
4,4'-DDD	0.020	0.019	95	80-120
4,4'-DDT	0.020	0.017	85	80-120
Methoxychlor	0.10	0.096	96	80-120
Tetrachloro-m-xylene	0.010	0.0091	91	80-120
Decachlorobiphenyl	0.020	0.020	100	80-120

Column to be used to flag recovery with an asterisk.
* Values outside of QC limits.

THIS CARTRIDGE LOT APPLIES TO THE FOLLOWING SAMPLES, BLANKS, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	SL12-1.0	DFQLJ103	07/14/00	07/14/00
02	SL12-1.0MS	DFQLJ104	07/14/00	07/14/00
03	SL12-1.0MSD	DFQLJ105	07/14/00	07/14/00
04	SL12-3.5	DFQPJ103	07/14/00	07/14/00
05	SL13-1.5	DFQPM103	07/14/00	07/14/00
06	SL13-3.5	DFQPW103	07/14/00	07/14/00
07	SL14-3.0	DFQQ0103	07/14/00	07/14/00
08	SL15-3.0	DFQQ3103	07/14/00	07/14/00
09	SL16-1.0	DFQQ4103	07/14/00	07/14/00
10	SL16-1.0DIL	DFQQ4203DIL	07/14/00	07/14/00
11	SL17-1.0	DFQQ5103	07/14/00	07/14/00
12	SL17-1.0DIL	DFQQ5203DIL	07/14/00	07/14/00
13	SL17-3.0	DFQQ9103	07/14/00	07/14/00
14	SL17-3.0DIL	DFQQ9203DIL	07/14/00	07/14/00
15	SL18-2.5	DFQQC103	07/14/00	07/14/00
16	SL19-1.0	DFQQN103	07/14/00	07/14/00
17	SL20-2.0	DFQQP103	07/14/00	07/14/00
18	SL20-2.0DUP	DFQQT103	07/14/00	07/14/00
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS:

9B
PESTICIDE GPC CALIBRATION

Lab Name: STL-PITTSBURGH Contract:

Lab Code: QESPIT Case No.: SAS No.: 40325 SDG No.:G06146
GPC Column: PESTB707 Date of Analysis: 07/14/00

GC Column (1): DB608 ID: 0.53(mm) GC Column (2): DB1701 ID: 0.53(mm)

COMPOUND	SPIKE ADDED (ug/L)	SPIKE RECOVERED (ug/L)	% REC #	QC. LIMITS REC.
gamma-BHC(Lindane)	0.5000	0.415	83	80-110
Heptachlor	0.5000	0.4051	81	80-110
Aldrin	0.5000	0.4325	86	80-110
Dieldrin	1.000	0.8192	82	80-110
Endrin	1.000	0.8382	84	80-110
4,4'-DDT	1.000	0.8055	81	80-110

Column to be used to flag recovery with an asterisk.
* Values outside of QC limits.

THIS GPC CALIBRATION APPLIES TO THE FOLLOWING SAMPLES, BLANKS, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	SL12-1.0	DFQLJ103	07/14/00	07/14/00
02	SL12-1.0MS	DFQLJ104	07/14/00	07/14/00
03	SL12-1.0MSD	DFQLJ105	07/14/00	07/14/00
04	SL12-3.5	DFQPJ103	07/14/00	07/14/00
05	SL13-1.5	DFQPM103	07/14/00	07/14/00
06	SL13-3.5	DFQPW103	07/14/00	07/14/00
07	SL14-3.0	DFQQ0103	07/14/00	07/14/00
08	SL15-3.0	DFQQ3103	07/14/00	07/14/00
09	SL16-1.0	DFQQ4103	07/14/00	07/14/00
10	SL16-1.0DIL	DFQQ4203DIL	07/14/00	07/14/00
11	SL17-1.0	DFQQ5103	07/14/00	07/14/00
12	SL17-1.0DIL	DFQQ5203DIL	07/14/00	07/14/00
13	SL17-3.0	DFQQ9103	07/14/00	07/14/00
14	SL17-3.0DIL	DFQQ9203DIL	07/14/00	07/14/00
15	SL18-2.5	DFQQC103	07/14/00	07/14/00
16	SL19-1.0	DFQQN103	07/14/00	07/14/00
17	SL20-2.0	DFQQP103	07/14/00	07/14/00
18	SL20-2.0DUP	DFQQT103	07/14/00	07/14/00
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-a4185.d
Lab Smp Id: RESCHA Client Smp ID: RESCHA
Inj Date : 13-JUL-2000 18:04
Operator : 01891 Inst ID: gc4.i
Smp Info : RESCHA,4130-G.b,,RESC.sub,,3,
Misc Info : 190-75-4
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4A.m
Meth Date : 14-Jul-2000 10:10 matkol Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-a4199.d
Als bottle: 1 QC Sample: RESOLUTION
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RESC.sub
Target Version: 3.40 Sample Matrix: WATER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	10000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.140	6.140	0.000	72323	0.02062	0.02062	80.00- 120.00	100.00
14 gamma-Chlordane					CAS #: 5103-74-2		
14.547	14.551	-0.004	33259	0.01052	0.01052	80.00- 120.00	100.00
17 Endosulfan I					CAS #: 959-98-8		
14.960	14.960	0.000	31241	0.00975	0.009747	80.00- 120.00	100.00
19 4,4'-DDE					CAS #: 72-55-9		
15.380	15.380	0.000	74023	0.02026	0.02026	80.00- 120.00	100.00
20 Dieldrin					CAS #: 60-57-1		
15.540	15.545	-0.005	70399	0.01904	0.01904	80.00- 120.00	100.00

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
27 Endosulfan sulfate					CAS #: 1031-07-8		
17.387	17.388	-0.001	38414	0.01932	0.01932	80.00- 120.00	100.00
28 Methoxychlor					CAS #: 72-43-5		
18.847	18.849	-0.002	125091	0.10098	0.1010	80.00- 120.00	100.00
29 Endrin ketone					CAS #: 53494-70-5		
19.353	19.352	0.001	41187	0.01982	0.01982	80.00- 120.00	100.00
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
23.587	23.587	0.000	33496	0.01912	0.01912	80.00- 120.00	100.00

Data File: /var/chem/gc4.i/4130-G.b/d-a4185.d
Date : 13-JUL-2000 18:04
Client ID: RESCHA
Sample Info: RESCHA,4130-G.b,,RESC.sub,,3,
Volume Injected (uL): 1.0
Column phase: DB608

Instrument: gc4.i

Operator: 01891
Column diameter: 0.53

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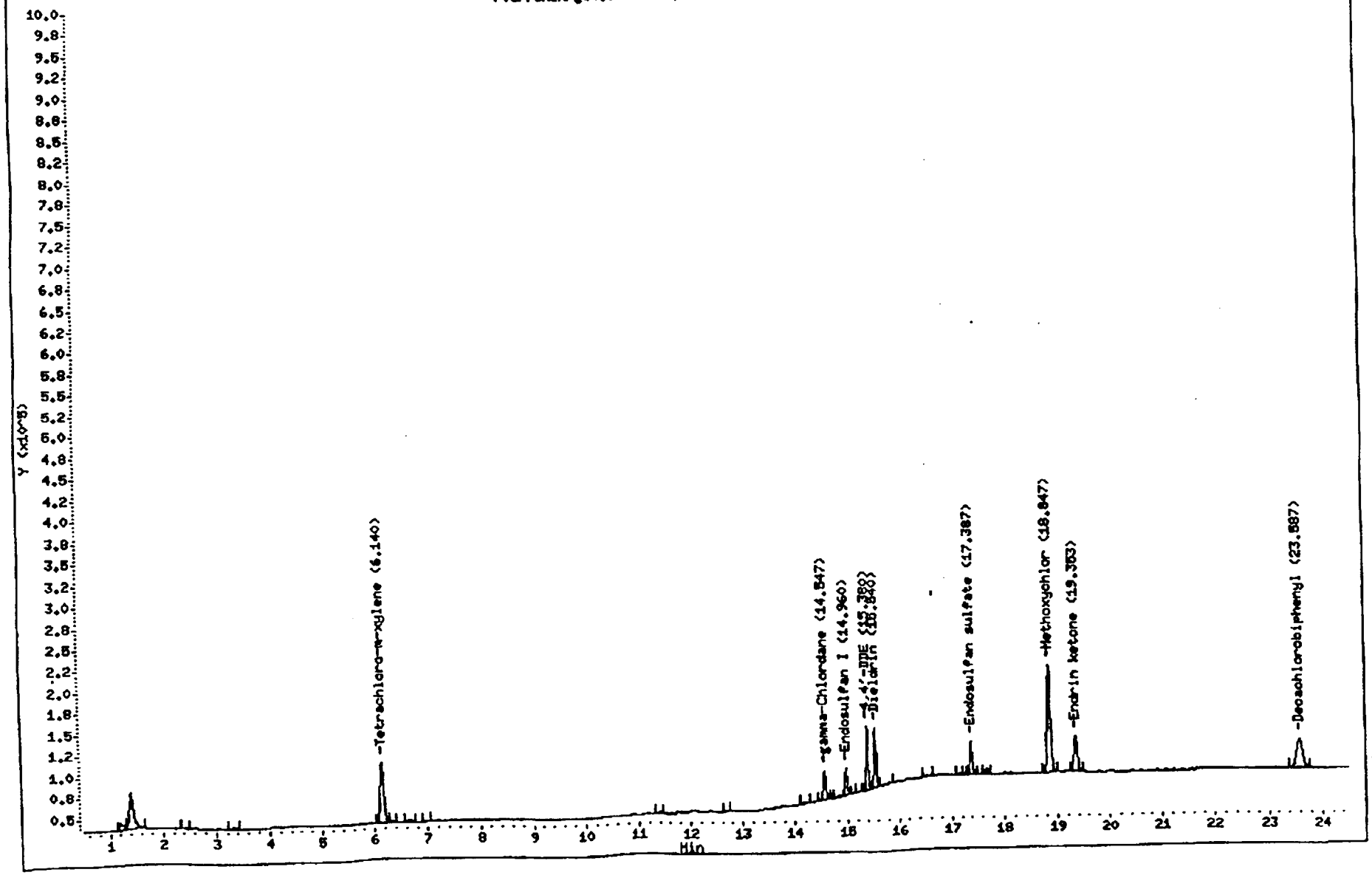
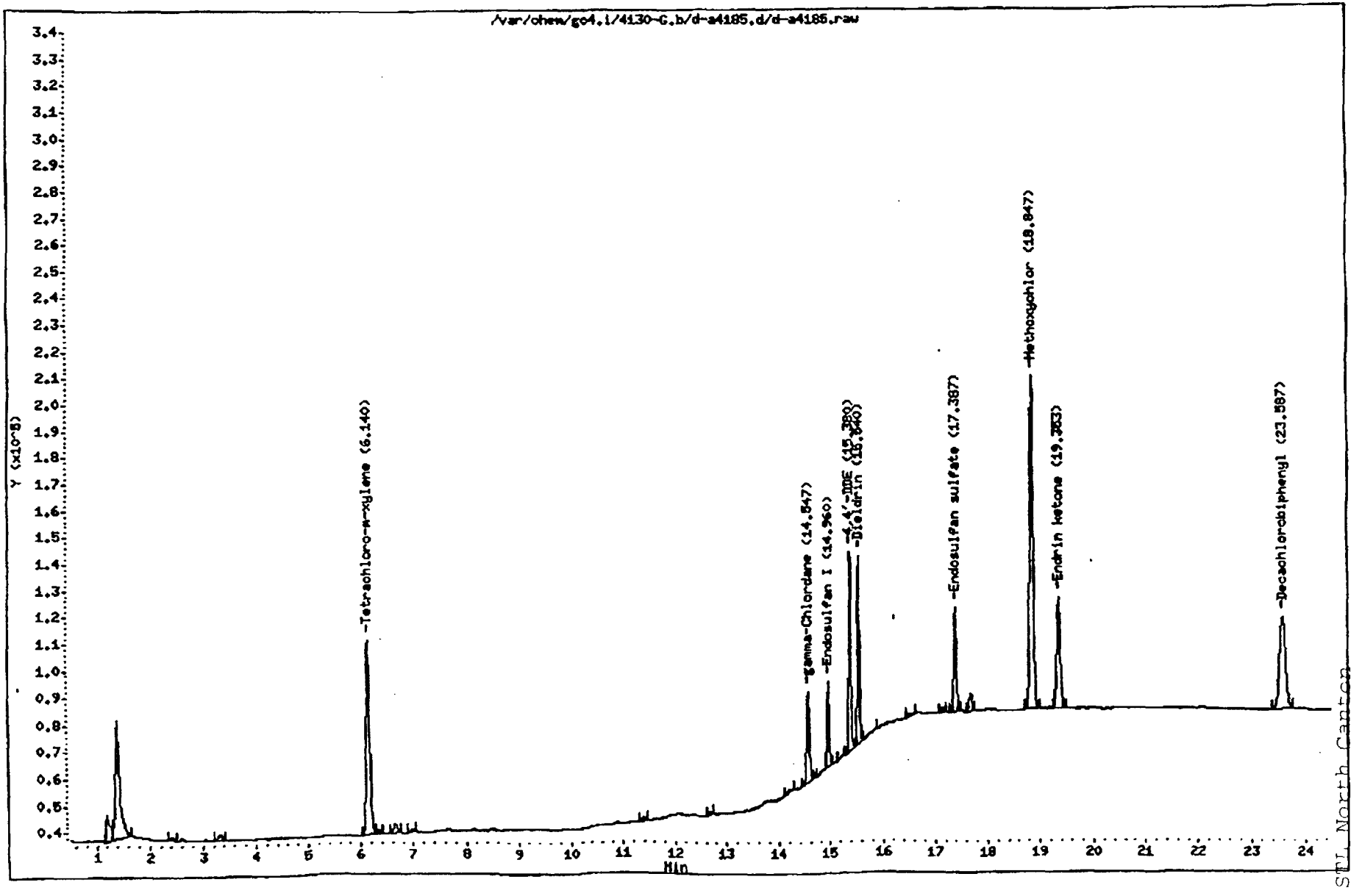


Data File: /var/chem/go4.i/4130-G.b/d-a4185.d
Date : 13-JUL-2000 18:04
Client ID: RESCHA
Sample Info: RESCHA,4130-G.b,,RESC.sub,,3,
Volume Injected (uL): 1.0
Column phase: DB608

Instrument: go4.i
Operator: 01891
Column diameter: 0.53



STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-a4186.d
Lab Smp Id: PEMHA Client Smp ID: PEMHA
Inj Date : 13-JUL-2000 18:32
Operator : 01891 Inst ID: gc4.i
Smp Info : PEMHA,4130-G.b,,PEM.sub,,3,
Misc Info : 190-87-13
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4A.m
Meth Date : 14-Jul-2000 10:10 matkol Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-a4199.d
Als bottle: 1 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PEM.sub
Target Version: 3.40 Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.140	6.140	0.000	66712	0.01902	0.01902	80.00- 120.00	100.00(R)
5 alpha-BHC					CAS #: 319-84-6		
8.507	8.507	0.000	34984	0.00848	0.008485	80.00- 120.00	100.00
7 gamma-BHC(Lindane)					CAS #: 58-89-9		
9.987	9.989	-0.002	30868	0.00890	0.008903	80.00- 120.00	100.00
6 beta-BHC					CAS #: 319-85-7		
10.280	10.275	0.005	84817	0.00941	0.009414	80.00- 120.00	100.00
19 4,4'-DDE					CAS #: 72-55-9		
15.380	15.380	0.000	2880	0.00078	0.0007798	80.00- 120.00	11.24(M)
22 Endrin					CAS #: 72-20-8		
16.180	16.180	0.000	142868	0.05263	0.05263	80.00- 120.00	100.00
23 4,4'-DDD					CAS #: 72-54-8		
16.353	16.327	0.026	2116	0.000702	0.0007023	80.00- 120.00	21.35(M)
25 4,4'-DDT					CAS #: 50-29-3		
16.887	16.888	-0.001	283269	0.09746	0.09746	80.00- 120.00	100.00
26 Endrin aldehyde					CAS #: 7421-93-4		
17.133	17.132	0.001	4318	0.00203	0.002026	80.00- 120.00	27.97(M)

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ng)	TARGET RANGE	RATIO
28 Methoxychlor					CAS #: 72-43-5		
18.847	18.849	-0.002	292696	0.23627	0.2363	80.00- 120.00	100.00
29 Endrin ketone					CAS #: 53494-70-5		
19.382	19.382	0.001	3311	0.00159	0.001592	80.00- 120.00	22.69(M)
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
23.587	23.587	0.000	32660	0.01864	0.01864	80.00- 120.00	100.00(R)

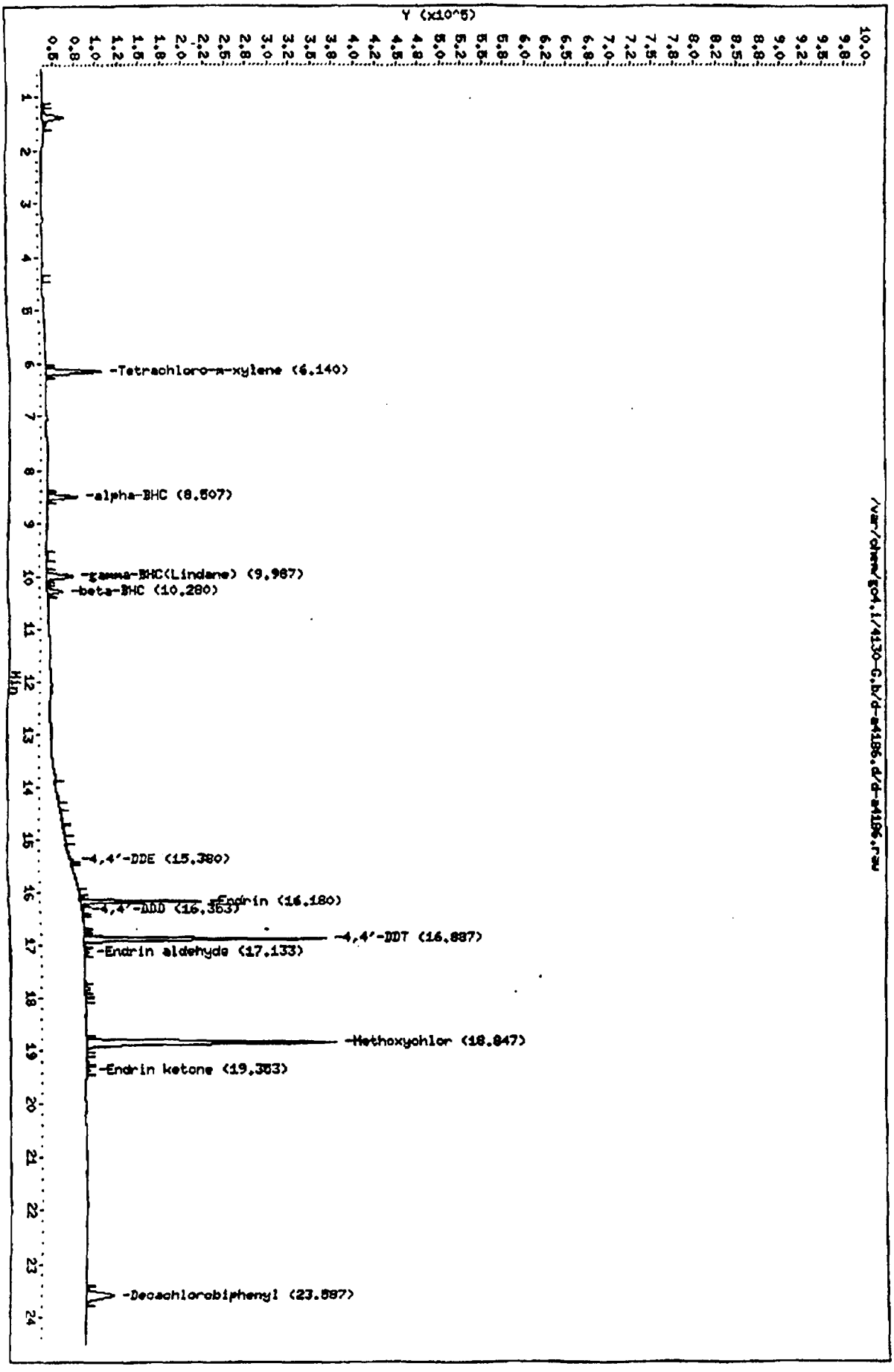
QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: /var/chem/go4.i/4130-G.b/d-m186.d
Date : 13-JUL-2000 18:32
Client ID: PEHHA
Sample Info: PEHH,4130-G.b,,PEH.sub,,3,

Column phase: DB608

Instrument: go4.i
Operator: 01891
Column diameter: 0.53



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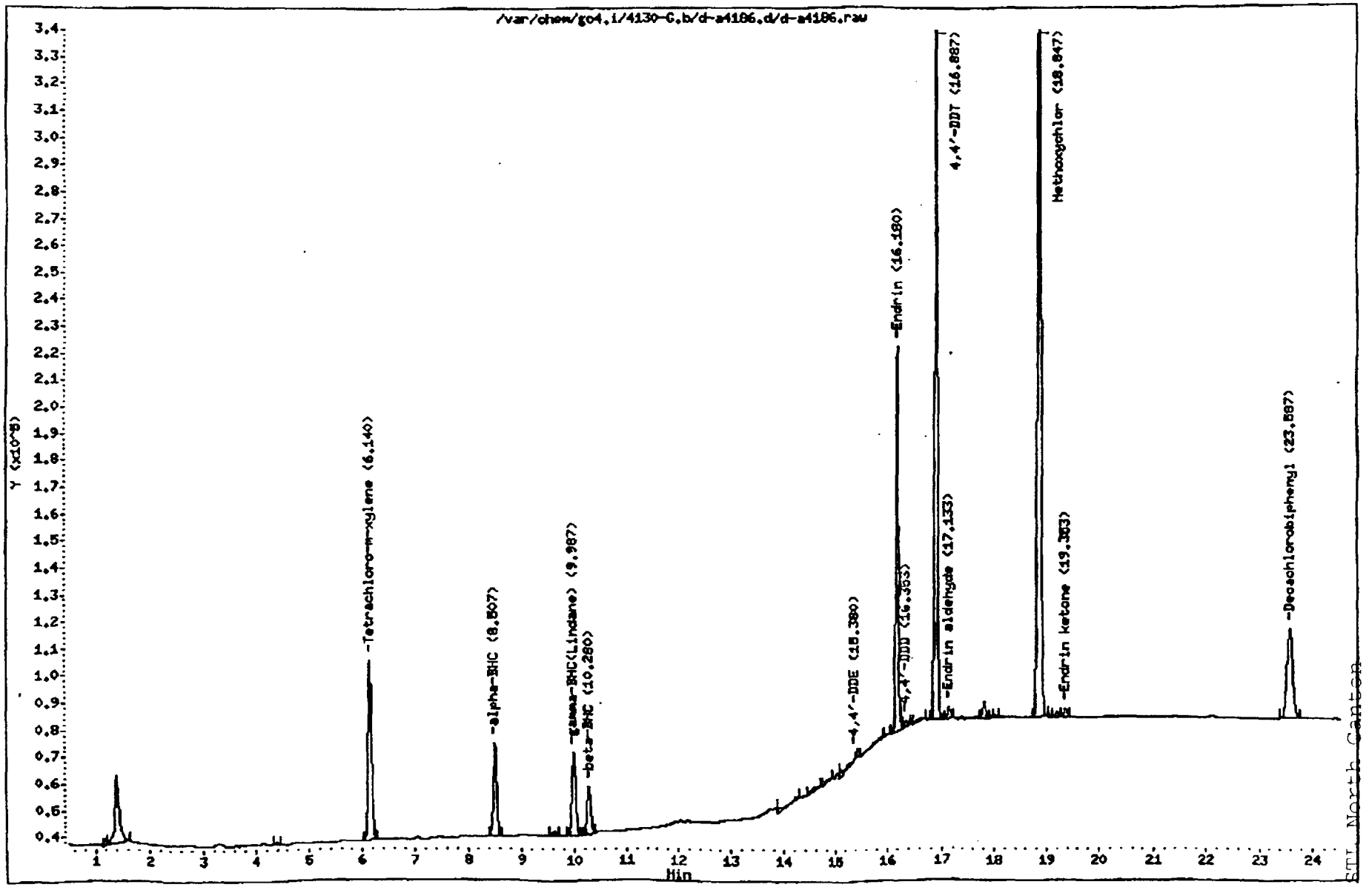
Date : 13-JUL-2000 18:32
Client ID: PEHHA
Sample Info: PEHHA,4130-G.b,,PEH.sub,,3,

Column phase: DB608

Page 1

Instrument: go4.i

Operator: 01891
Column diameter: 0.53



STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-a4187.d
Lab Smp Id: AR1660HA Client Smp ID: AR1660HA
Inj Date : 13-JUL-2000 18:59
Operator : 01891 Inst ID: gc4.i
Smp Info : AR1660HA,4130-G.b,,1-AR1660.sub,,1,2
Misc Info : 190-80-14
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4A.m
Meth Date : 14-Jul-2000 10:10 matkol Quant Type: ESTD
Cal Date : 13-JUL-2000 23:37 Cal File: d-a4197.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AR1660.sub
Target Version: 3.40 Sample Matrix: None

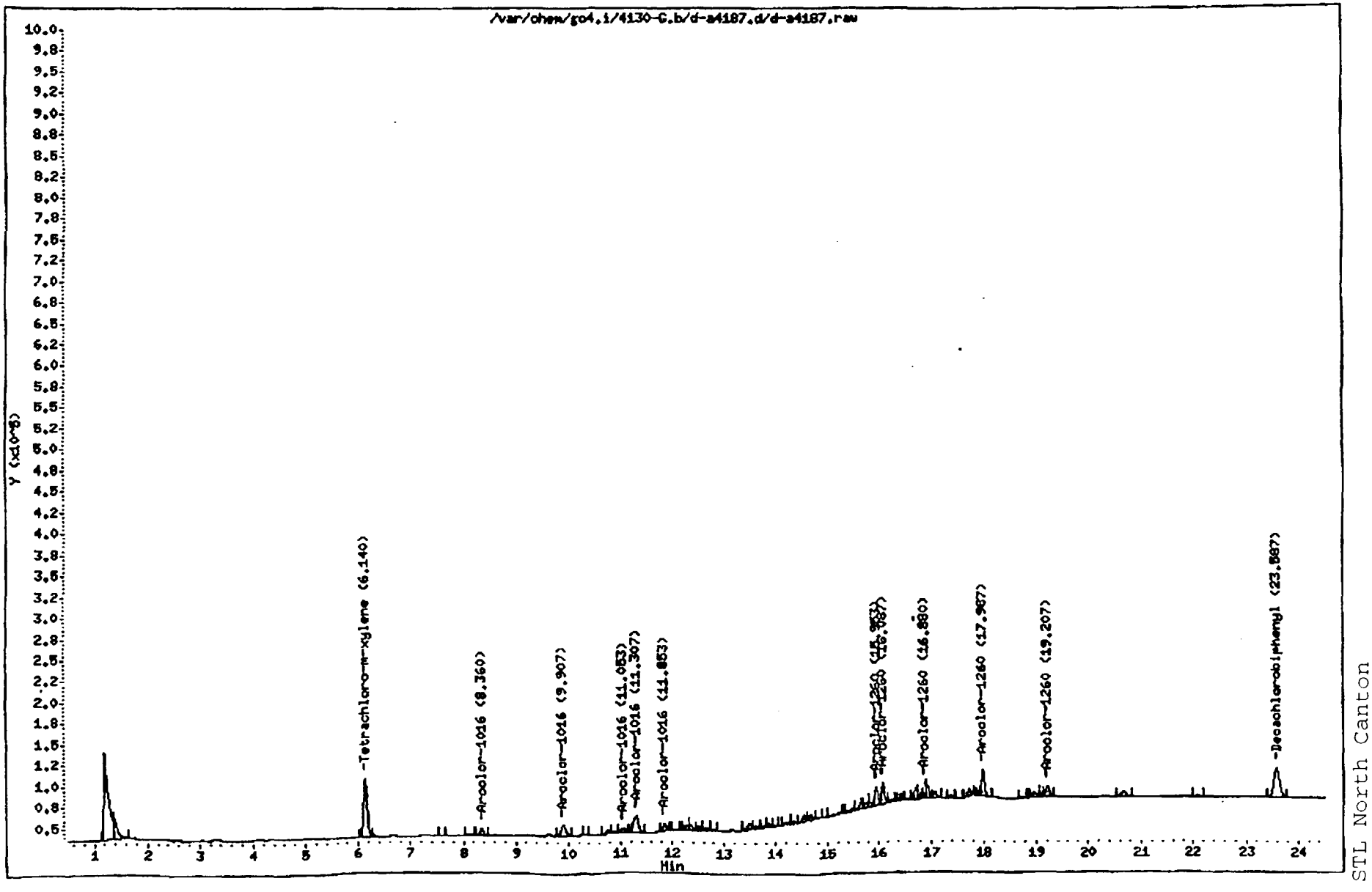
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.140	6.140	0.000	70098	0.02000	0.02000	80.00- 120.00	100.00
4 Aroclor-1016					CAS #: 12674-11-2		
8.360	8.360	0.000	7471	0.10000	0.1000	80.00- 120.00	100.00
9.907	9.907	0.000	13109	0.10000	0.1000	163.71- 203.71	175.47
11.053	11.053	0.000	5499	0.10000	0.1000	223.39- 263.39	73.60
11.307	11.307	0.000	19111	0.10000	0.1000	104.47- 144.47	255.80
11.853	11.853	0.000	8897	0.10000	0.1000	99.60- 139.60	119.09
Average of Peak Amounts =					0.1		
21 Aroclor-1260					CAS #: 11096-82-5		
15.953	15.953	0.000	22059	0.10000	0.1000	80.00--120.00	100.00
16.087	16.087	0.000	24704	0.10000	0.1000	162.69- 202.69	111.99
16.880	16.880	0.000	18644	0.10000	0.1000	126.01- 166.01	84.52
17.987	17.987	0.000	30951	0.10000	0.1000	253.63- 293.63	140.31
19.207	19.207	0.000	13321	0.10000	0.1000	111.87- 151.87	60.43
Average of Peak Amounts =					0.1		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
23.587	23.587	0.000	25082	0.04000	0.04000	80.00- 120.00	100.00

Data File: /var/chem/go4.i/4130-G.b/d-a4187.d
Date : 13-JUL-2000 18:59
Client ID: AR1660HA
Sample Info: AR1660HA,4130-G.b,,1-AR1660.sub,,1,2

Column phase: DB608

Instrument: go4.i

Operator: 01891
Column diameter: 0.53



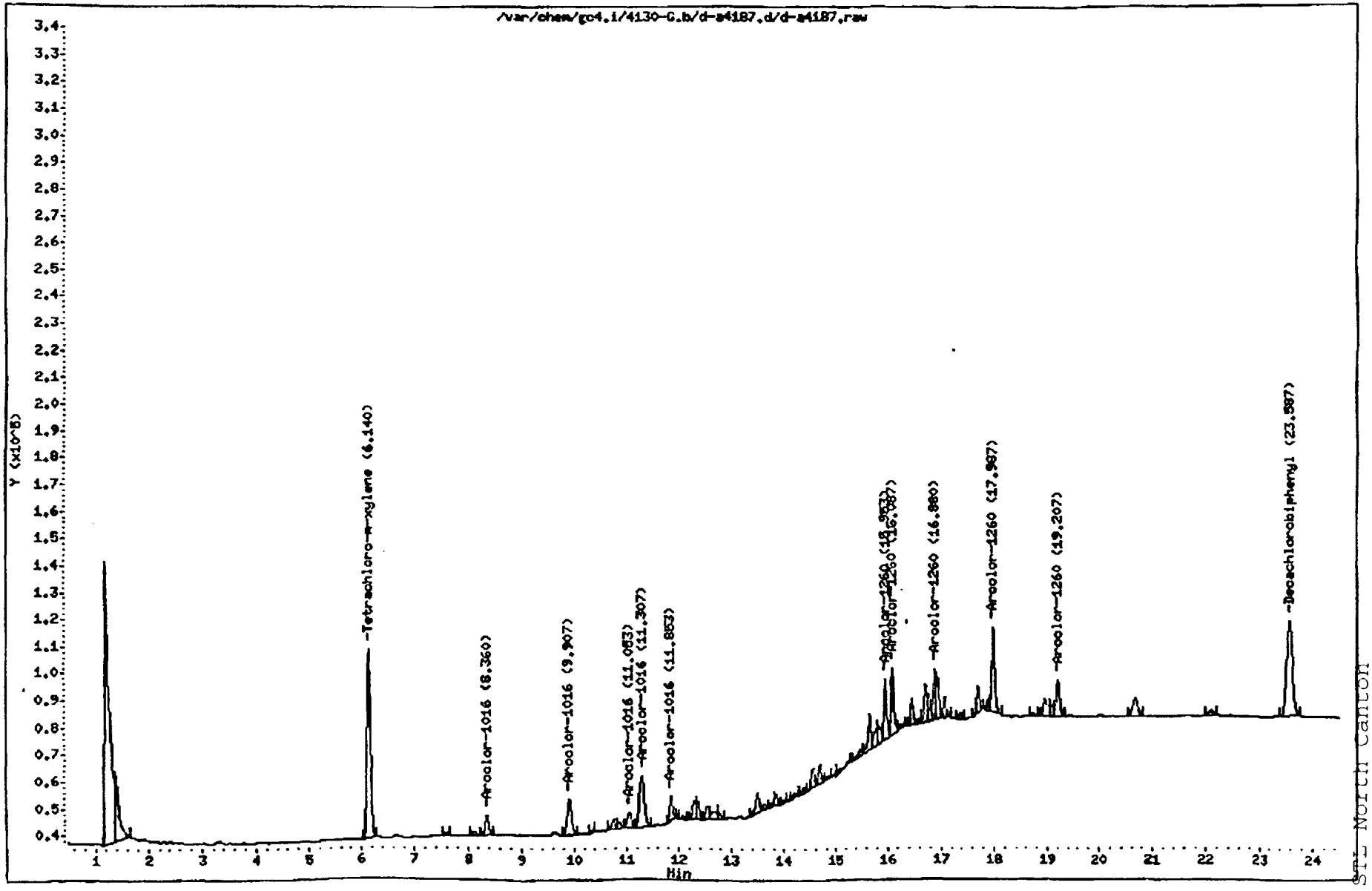
Data File: /var/chem/gc4.i/4130-G.b/d-a4187.d
Date : 13-JUL-2000 18:59
Client ID: AR1660HA
Sample Info: AR1660HA,4130-G.b,,1-AR1660.sub,,1,2

Column phase: DB608

Page 1

Instrument: gc4.i

Operator: 01891
Column diameter: 0.53

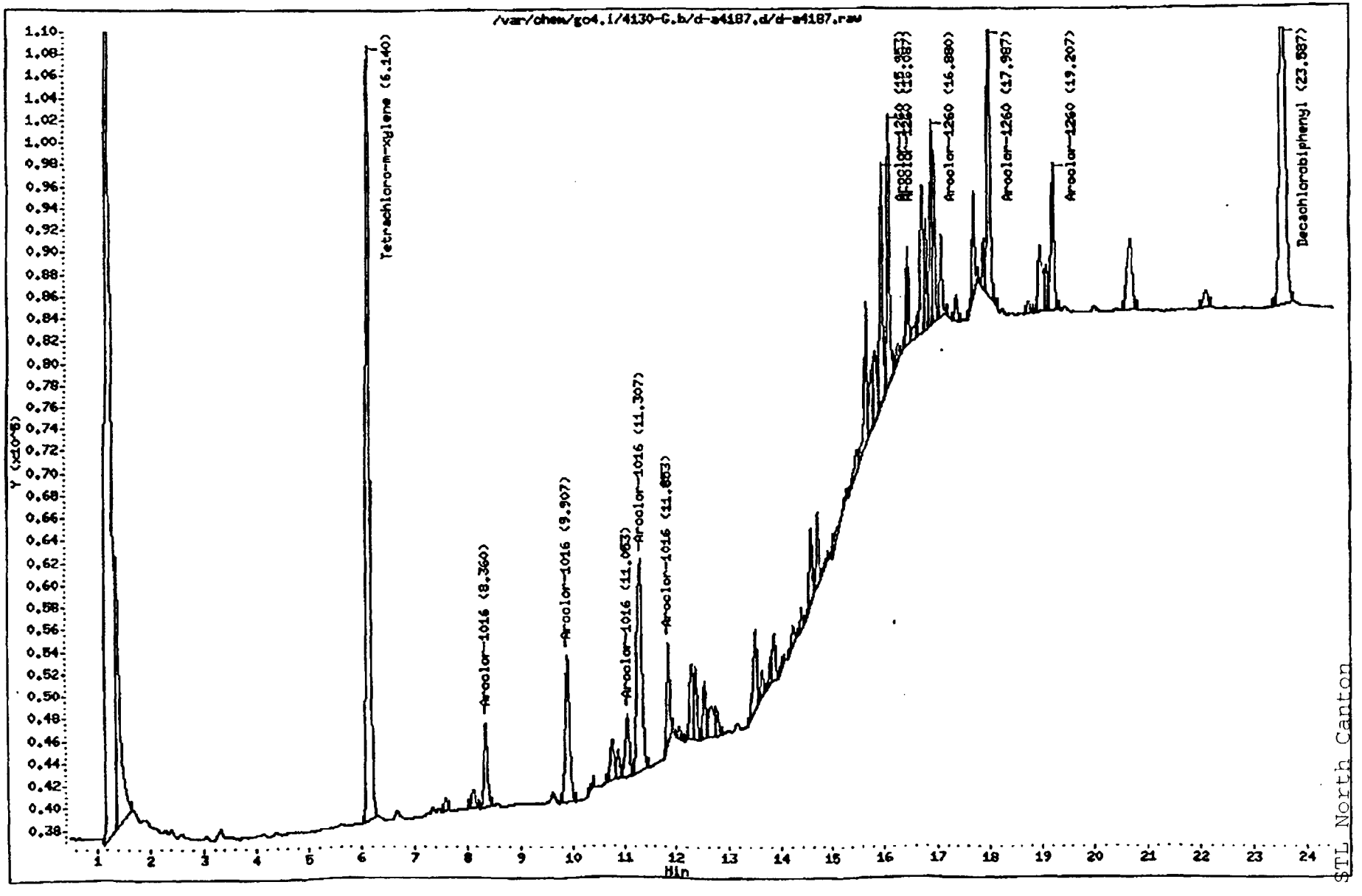


Data File: /var/chem/gc4.i/4130-G.b/d-a4187.d
Date : 13-JUL-2000 18:59
Client ID: AR1660HA
Sample Info: AR1660HA,4130-G,b,,1-AR1660,sub,,1,2

Column phase: DB608

Instrument: gc4.i

Operator: 01891
Column diameter: 0.53



STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-a4188.d
Lab Smp Id: AR1221HA Client Smp ID: AR1221HA
Inj Date : 13-JUL-2000 19:27
Operator : 01891 Inst ID: gc4.i
Smp Info : AR1221HA,4130-G.b,,2-AR1221.sub,,1,2
Misc Info : 190-81-1
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4A.m
Meth Date : 14-Jul-2000 10:10 matkol Quant Type: ESTD
Cal Date : 13-JUL-2000 23:37 Cal File: d-a4197.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 2-AR1221.sub
Target Version: 3.40 Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.140	6.140	0.000	71607	0.02000	0.02000	80.00- 120.00	100.00
2 Aroclor-1221					CAS #: 11104-28-2		
7.587	7.587	0.000	7583	0.20000	0.2000	80.00- 120.00	100.00
8.127	8.127	0.000	5846	0.20000	0.2000	53.62- 93.62	77.09
8.353	8.353	0.000	17679	0.20000	0.2000	194.91- 234.91	233.14
Average of Peak Amounts =					0.2		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
23.587	23.587	0.000	35167	0.04000	0.04000	80.00- 120.00	100.00

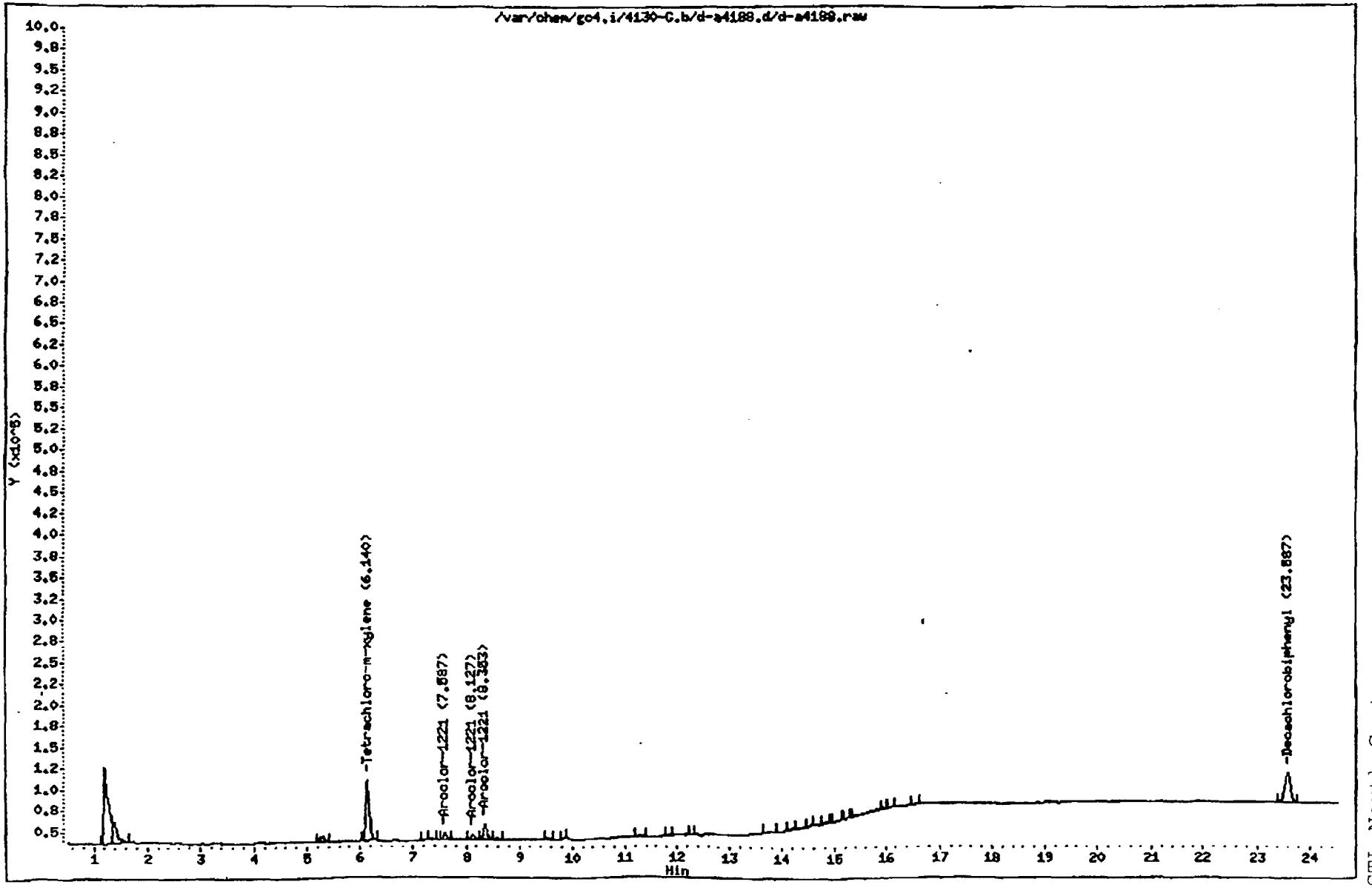
Data File: /var/chem/gc4.i/4130-C.b/d-a4188.d
Date : 13-JUL-2000 19:27
Client ID: AR1221HA
Sample Info: AR1221HA,4130-C.b,,2-AR1221.sub,,1,2

Column phase: DB608

Page 2

Instrument: gc4.i

Operator: 01891
Column diameter: 0.53



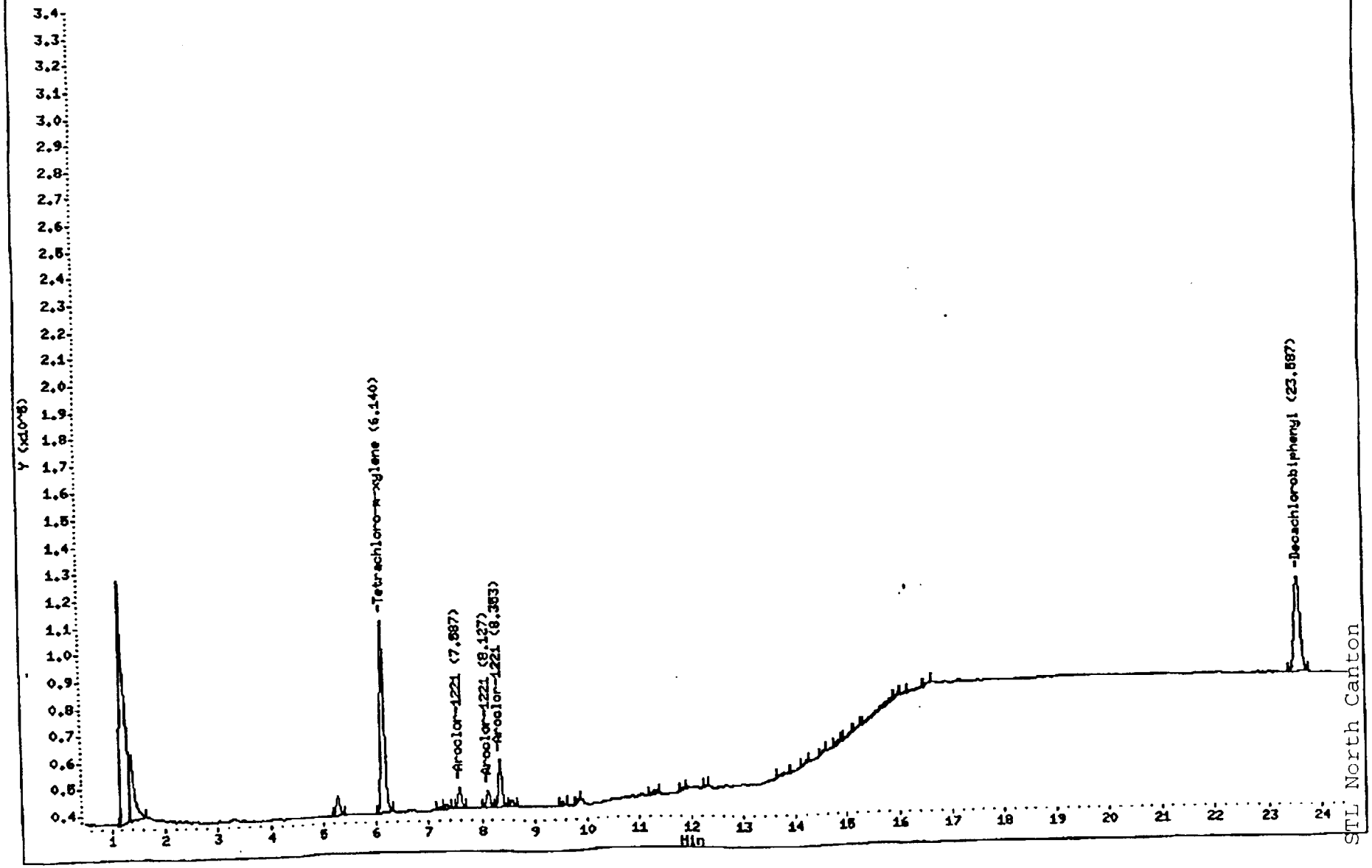
Data File: /var/chem/gc4.i/4130-G.b/d-a4188.d
Date : 13-JUL-2000 19:27
Client ID: AR1221HA
Sample Info: AR1221HA,4130-G.b,,2-AR1221.sub,,1,2

Column phase: DB608

Instrument: gc4.i

Operator: 01891
Column diameter: 0.53

/var/chem/gc4.i/4130-G.b/d-a4188.d/d-a4188.raw

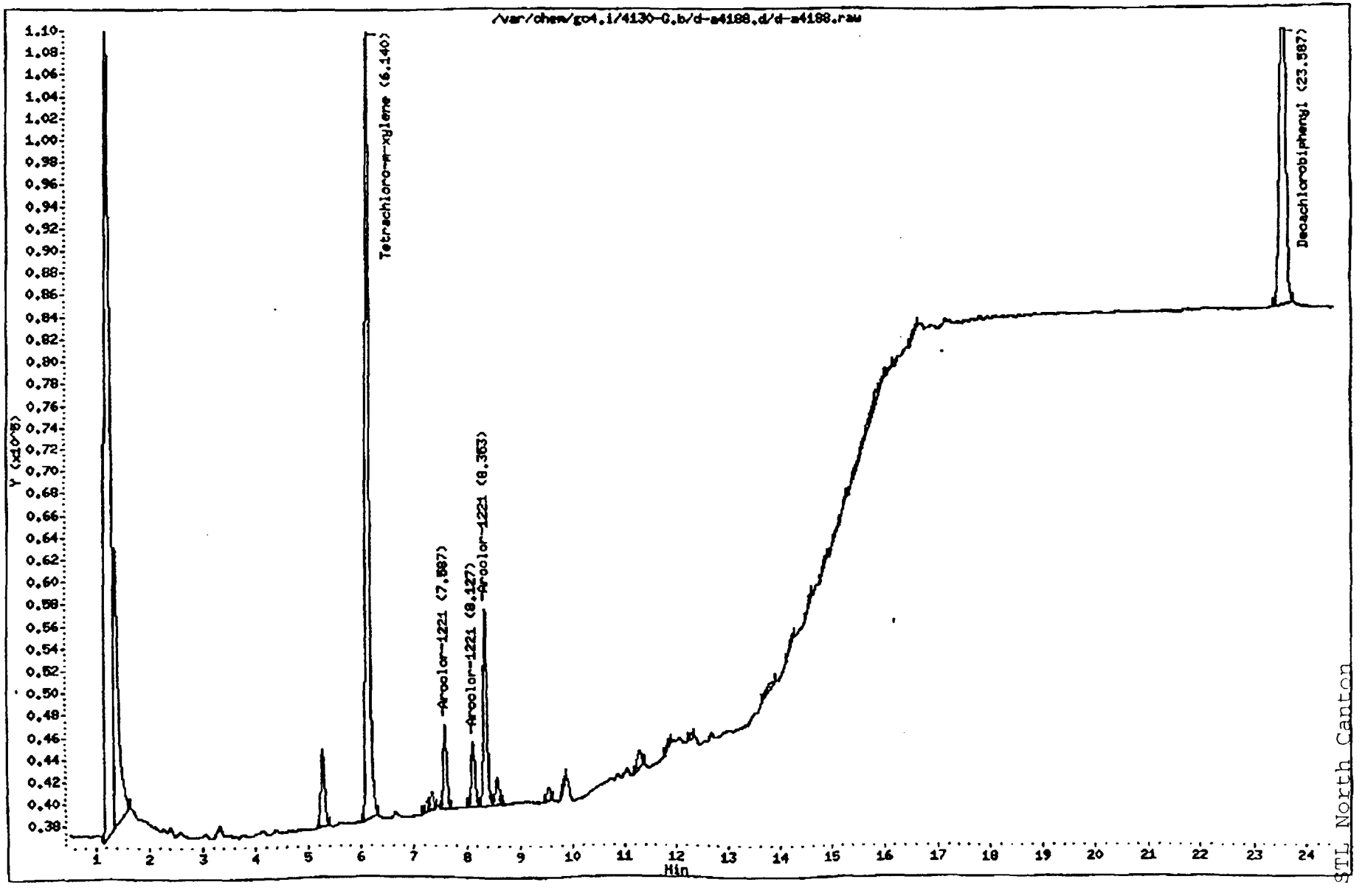


Data File: /var/chem/gc4.i/4130-G.b/d-a4188.d
Date : 13-JUL-2000 19:27
Client ID: AR1221HA
Sample Info: AR1221HA,4130-G.b,,2-AR1221.sub,,1,2

Column phase: DB608

Instrument: gc4.i

Operator: 01891
Column diameter: 0.53



STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-a4189.d
Lab Smp Id: AR1232HA Client Smp ID: AR1232HA
Inj Date : 13-JUL-2000 19:55
Operator : 01891 Inst ID: gc4.i
Smp Info : AR1232HA,4130-G.b,,3-AR1232.sub,,1,2
Misc Info : 190-81-2
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4A.m
Meth Date : 14-Jul-2000 10:10 matkol Quant Type: ESTD
Cal Date : 13-JUL-2000 23:37 Cal File: d-a4197.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 3-AR1232.sub
Target Version: 3.40 Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.140	6.140	0.000	72368	0.02000	0.02000	80.00- 120.00	100.00
3 Aroclor-1232					CAS #: 11141-16-5		
8.353	8.353	0.000	6585	0.10000	0.1000	80.00- 120.00	100.00
9.907	9.907	0.000	5095	0.10000	0.1000	39.30- 79.30	77.37
11.300	11.300	0.000	7129	0.10000	0.1000	46.47- 86.47	108.26
11.860	11.860	0.000	3446	0.10000	0.1000	46.90- 86.90	52.33
Average of Peak Amounts =					0.1		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
23.587	23.587	0.000	36354	0.04000	0.04000	80.00- 120.00	100.00

Data File: /var/chem/gc4.i/4130-G.b/d-a4189.d

Date : 13-JUL-2000 19:55

Client ID: AR1232HA

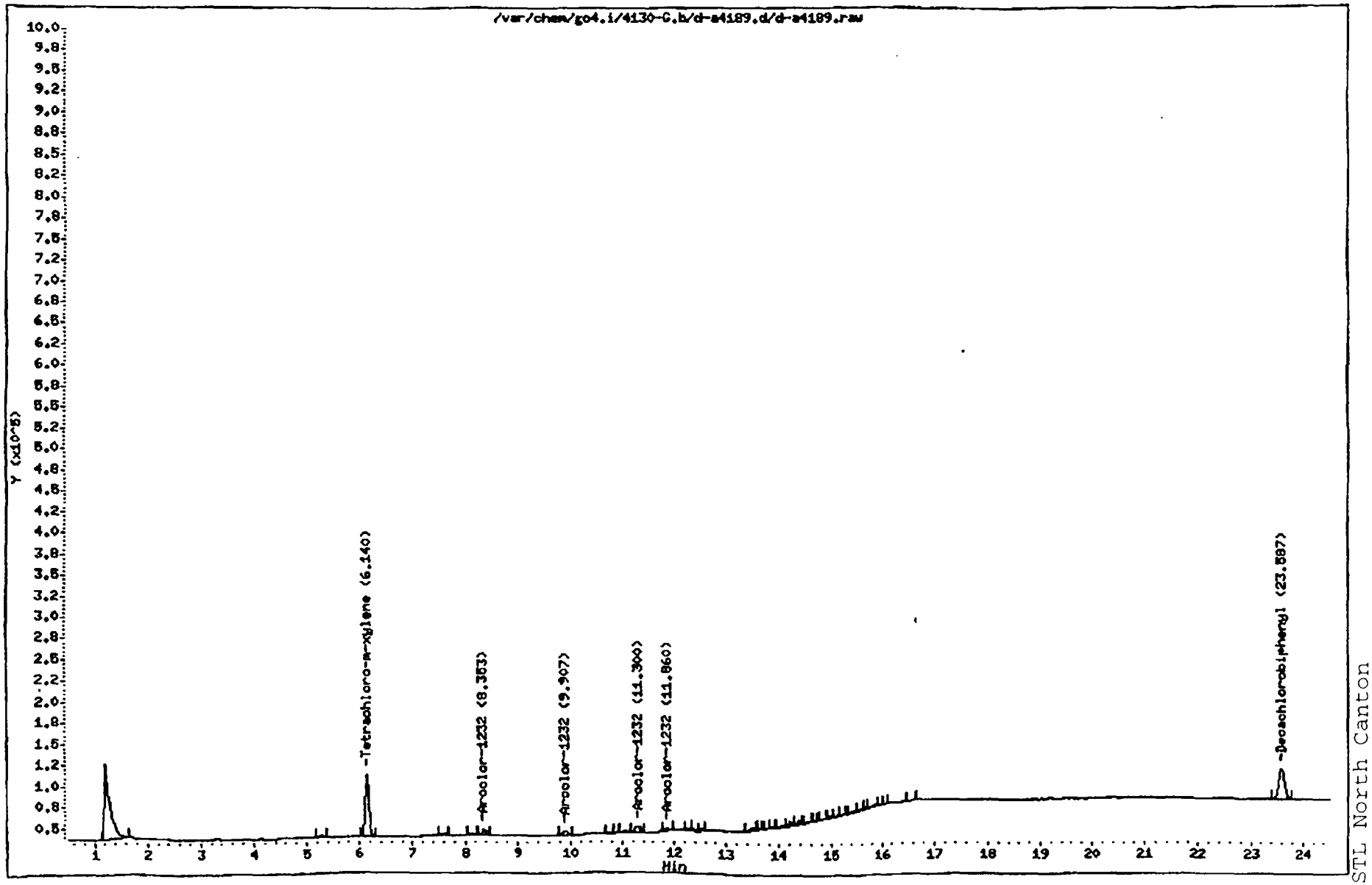
Sample Info: AR1232HA,4130-G.b,,3-AR1232.sub,,1,2

Column phase: DB608

Instrument: gc4.i

Operator: 01891

Column diameter: 0.53

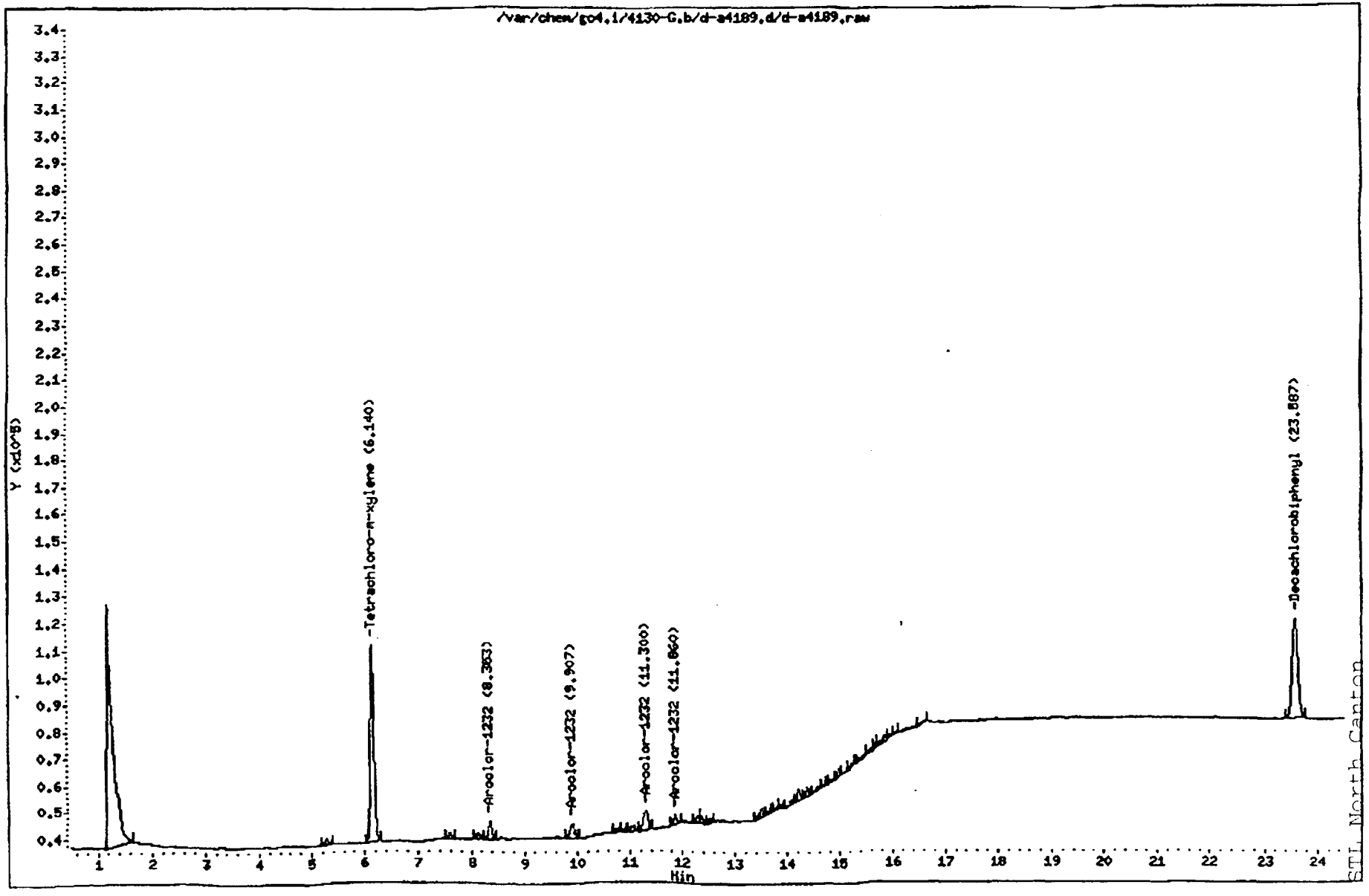


Data File: /var/chem/gc4.i/4130-G.b/d-a4189.d
Date : 13-JUL-2000 19:55
Client ID: AR1232HA
Sample Info: AR1232HA,4130-G.b,,3-AR1232.sub,,1,2

Column phase: DB608

Instrument: gc4.i

Operator: 01891
Column diameter: 0.53



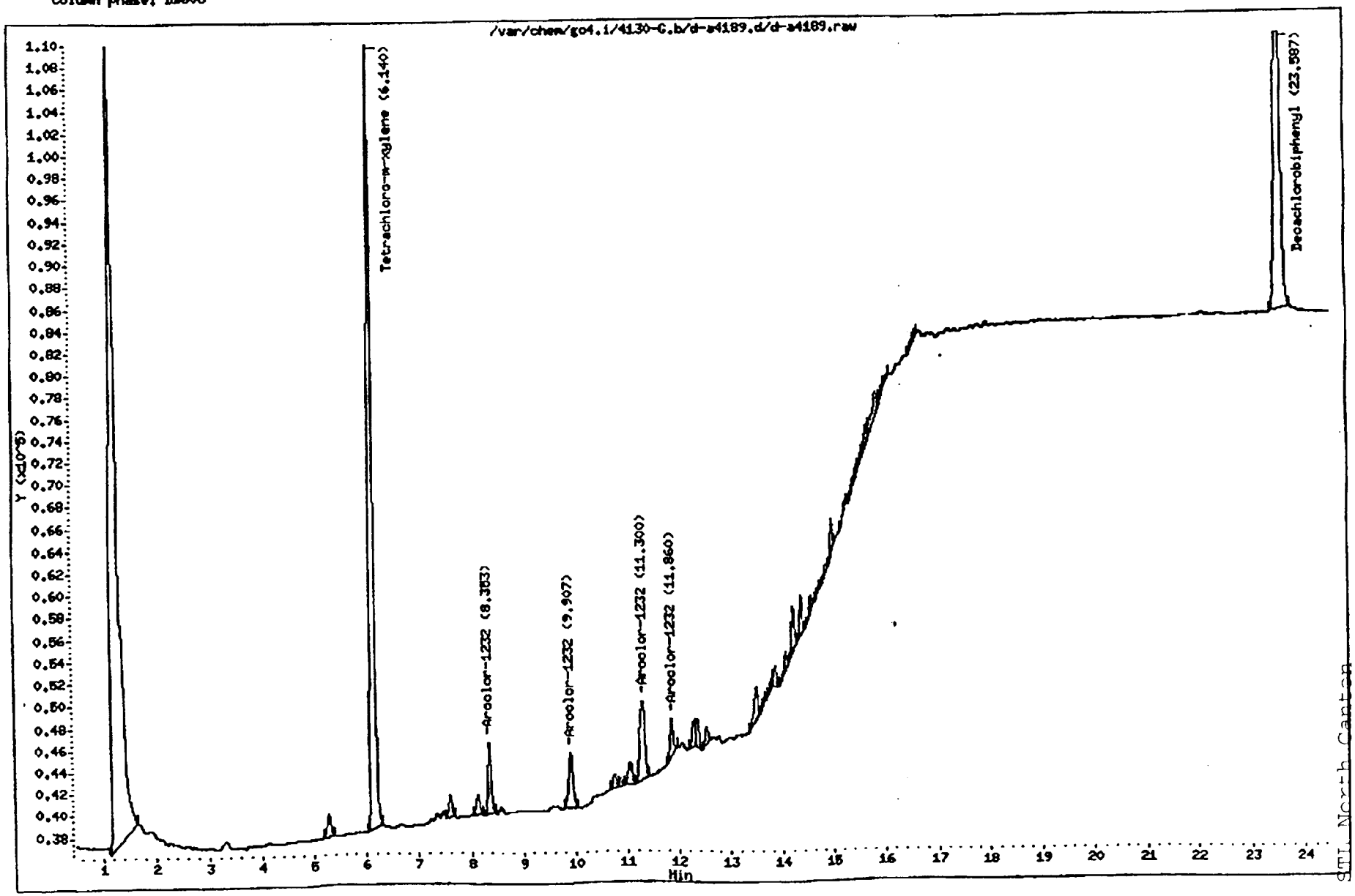
STL North Canton

Data File: /var/chem/go4.i/4130-G.b/d-a4189.d
Date : 13-JUL-2000 19:55
Client ID: AR1232HA
Sample Info: AR1232HA,4130-G,b,,3-AR1232,sub,,1,2

Column phase: DB608

Instrument: go4.i

Operator: 01891
Column diameter: 0.53



STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-a4190.d
Lab Smp Id: AR1242HA Client Smp ID: AR1242HA
Inj Date : 13-JUL-2000 20:23
Operator : 01891 Inst ID: gc4.i
Smp Info : AR1242HA,4130-G.b,,4-AR1242.sub,,1,2
Misc Info : 190-81-3
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4A.m
Meth Date : 14-Jul-2000 10:10 matkol Quant Type: ESTD
Cal Date : 13-JUL-2000 23:37 Cal File: d-a4197.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 4-AR1242.sub
Target Version: 3.40 Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
# 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.140	6.140	0.000	70657	0.02000	0.02000	80.00- 120.00	100.00
4 Aroclor-1242					CAS #: 53469-21-9		
8.353	8.353	0.000	6594	0.10000	0.1000	80.00- 120.00	100.00
9.907	9.907	0.000	10534	0.10000	0.1000	31.53- 71.53	159.76
11.300	11.300	0.000	15346	0.10000	0.1000	31.77- 71.77	232.73
11.853	11.853	0.000	7172	0.10000	0.1000	29.76- 69.76	108.77
13.493	13.493	0.000	6177	0.10000	0.1000	32.73- 72.73	93.68
Average of Peak Amounts =					0.1		
# 30 Decachlorobiphenyl					CAS #: 2051-24-3		
23.580	23.587	-0.007	35160	0.04000	0.04000	80.00- 120.00	100.00

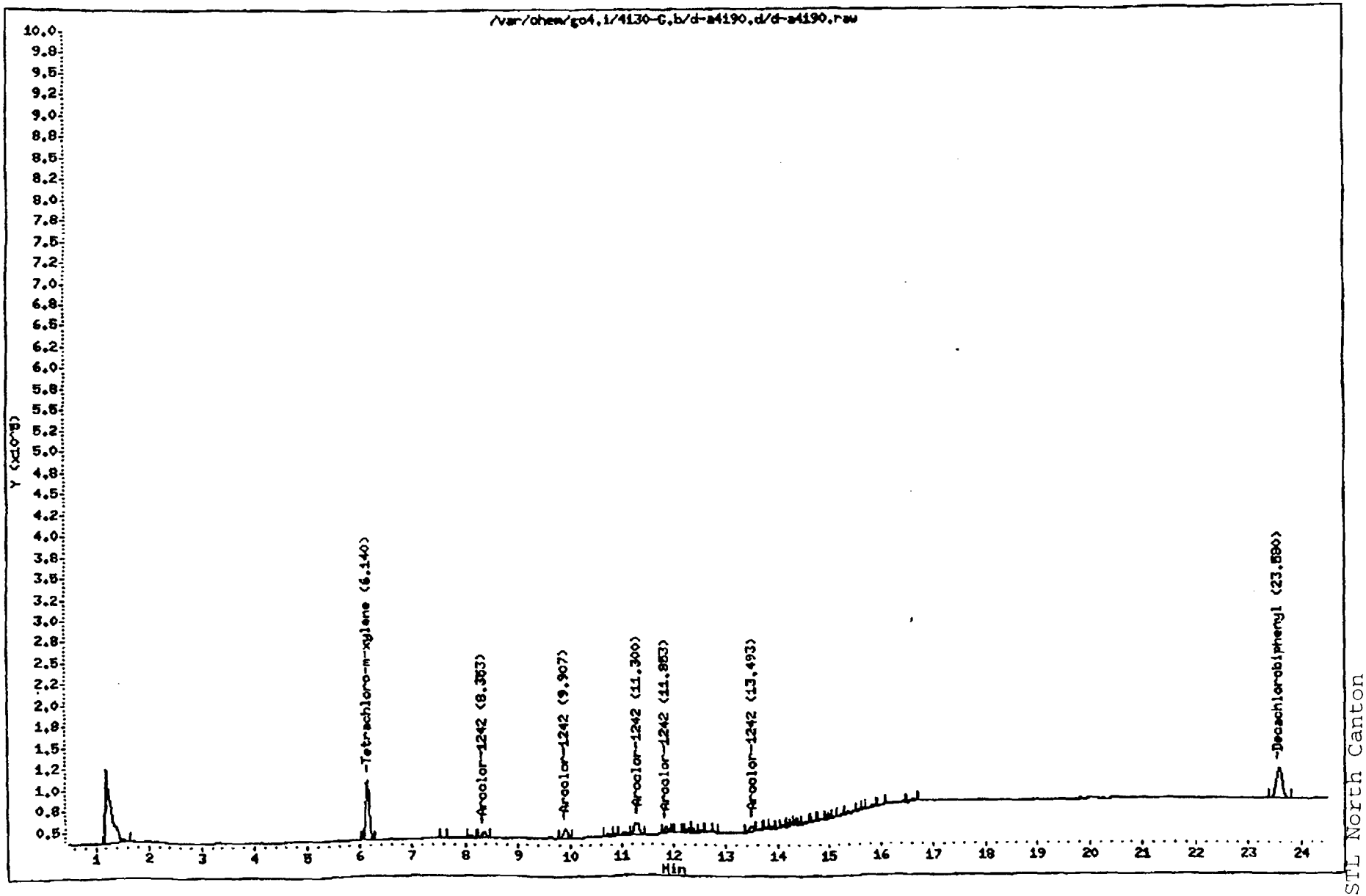
Data File: /var/chem/gc4.i/4130-C.b/d-a4190.d
Date : 13-JUL-2000 20:23
Client ID: AR1242HA
Sample Info: AR1242HA,4130-C.b,,4-AR1242.sub,,1,2

Column phase: DB608

Page 2

Instrument: gc4.i

Operator: 01891
Column diameter: 0.53

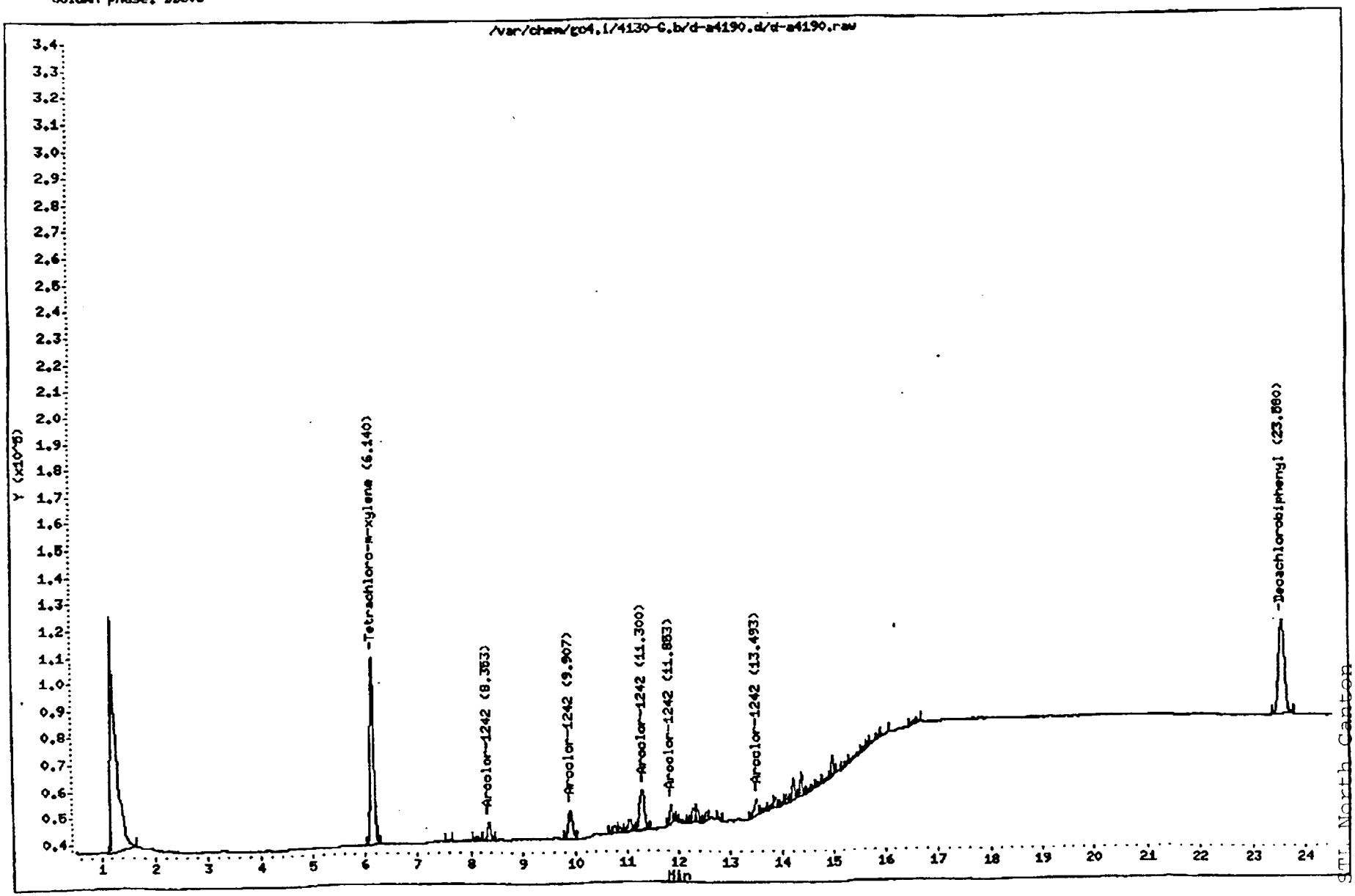


Data File: /var/chem/go4.i/4130-C.b/d-a4190.d
Date : 13-JUL-2000 20:23
Client ID: AR1242HA
Sample Info: AR1242HA,4130-C.b,,4-AR1242.sub,,1,2

Instrument: go4.i

Operator: 01891
Column diameter: 0.53

Column phase: DB608



Data File: /var/chem/gc4.i/4130-G.b/d-a4190.d

Date : 13-JUL-2000 20:23

Client ID: AR1242HA

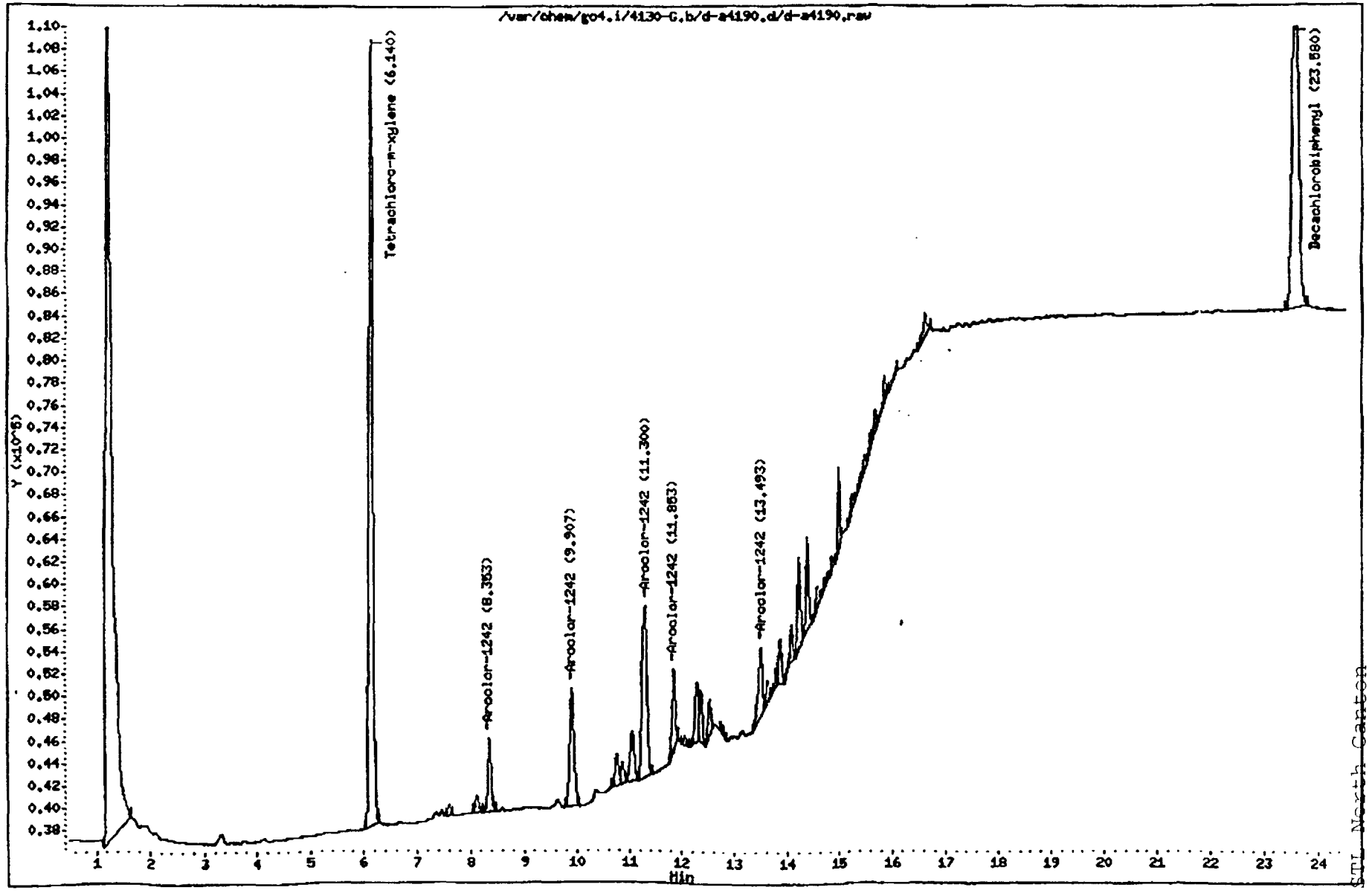
Sample Info: AR1242HA,4130-G.b,,4-AR1242.sub,,1,2

Column phase: DB608

Instrument: gc4.i

Operator: 01891

Column diameter: 0.53



STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-a4191.d
Lab Smp Id: AR1248HA Client Smp ID: AR1248HA
Inj Date : 13-JUL-2000 20:50
Operator : 01891 Inst ID: gc4.i
Smp Info : AR1248HA,4130-G.b,,5-AR1248.sub,,1,2
Misc Info : 190-81-4
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4A.m
Meth Date : 14-Jul-2000 10:10 matkol Quant Type: ESTD
Cal Date : 13-JUL-2000 23:37 Cal File: d-a4197.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 5-AR1248.sub
Target Version: 3.40 Sample Matrix: None

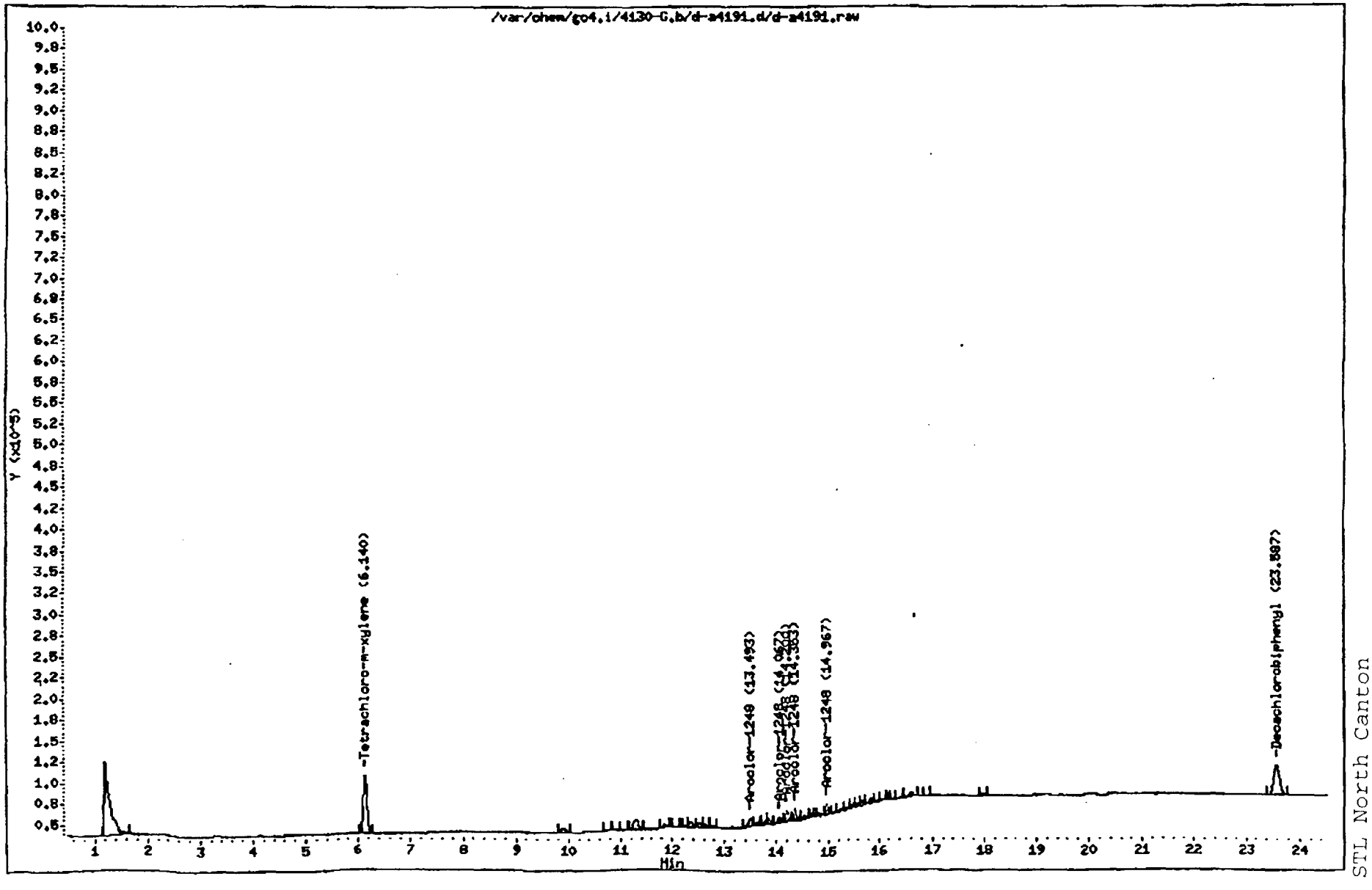
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.140	6.140	0.000	69865	0.02000	0.02000	80.00- 120.00	100.00
10 Aroclor-1248					CAS #: 12672-29-6		
13.493	13.493	0.000	8802	0.10000	0.1000	80.00- 120.00	100.00
14.067	14.067	0.000	6712	0.10000	0.1000	108.93- 148.93	76.26
14.200	14.200	0.000	12309	0.10000	0.1000	112.80- 152.80	139.84
14.353	14.353	0.000	12898	0.10000	0.1000	82.36- 122.36	146.53
14.967	14.967	0.000	11753	0.10000	0.1000	46.43- 86.43	133.55
Average of Peak Amounts =					0.1		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
23.587	23.587	0.000	24988	0.04000	0.04000	80.00- 120.00	100.00

Data File: /var/chem/go4.i/4130-G.b/d-a4191.d
Date : 13-JUL-2000 20:50
Client ID: AR1248HA
Sample Info: AR1248HA,4130-G.b,,5-AR1248.sub,,1,2

Column phase: DB608

Instrument: go4.i

Operator: 01891
Column diameter: 0.53

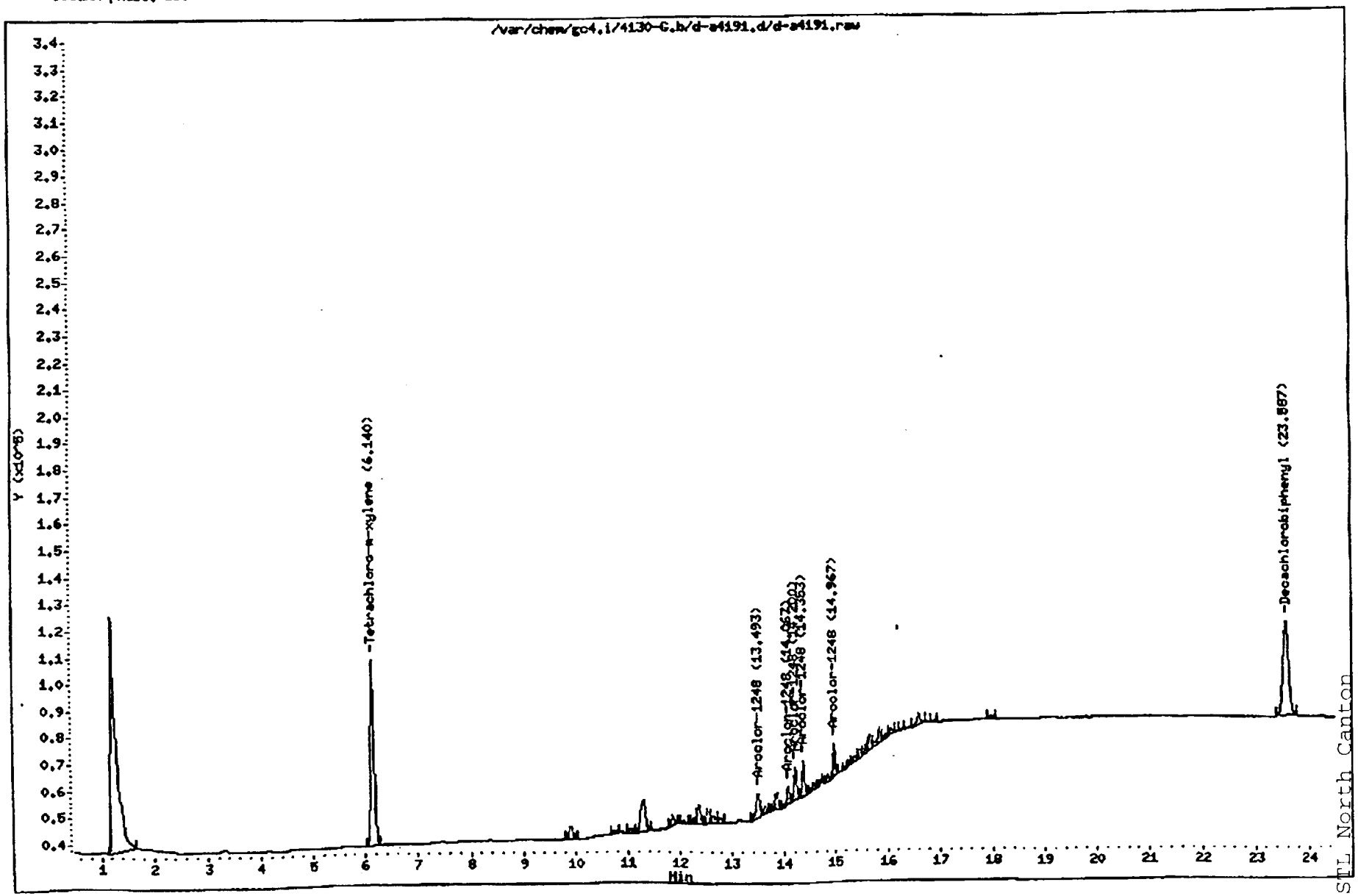


Data File: /var/chem/gc4.i/4130-G.b/d-a4191.d
Date : 13-JUL-2000 20:50
Client ID: AR1248HA
Sample Info: AR1248HA,4130-G.b,,5-AR1248.sub,,1,2

Column phase: DB608

Instrument: gc4.i

Operator: 01891
Column diameter: 0.53

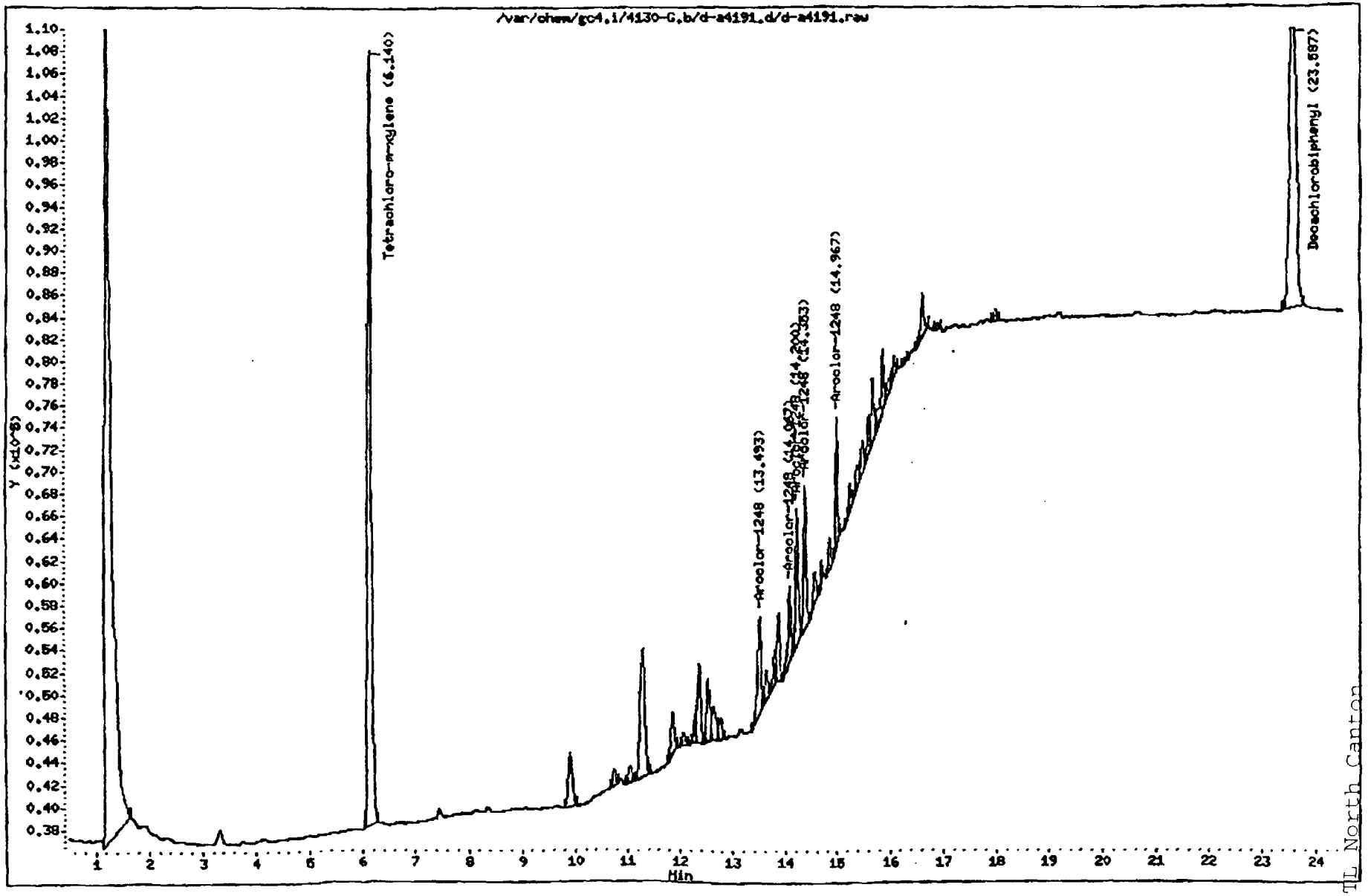


Data File: /var/chem/gc4.i/4130-C.b/d-a4191.d
Date : 13-JUL-2000 20:50
Client ID: AR1248HA
Sample Info: AR1248HA,4130-C.b,,5-AR1248.sub,,1.2

Column phase: DB608

Instrument: gc4.i

Operator: 01891
Column diameter: 0.53



STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-a4192.d
Lab Smp Id: AR1254HA Client Smp ID: AR1254HA
Inj Date : 13-JUL-2000 21:18
Operator : 01891 Inst ID: gc4.i
Smp Info : AR1254HA,4130-G.b,,6-AR1254.sub,,1,2
Misc Info : 190-81-5
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4A.m
Meth Date : 14-Jul-2000 10:10 matkol Quant Type: ESTD
Cal Date : 13-JUL-2000 23:37 Cal File: d-a4197.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 6-AR1254.sub
Target Version: 3.40 Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.140	6.140	0.000	69277	0.02000	0.02000	80.00- 120.00	100.00
15 Aroclor-1254					CAS #: 11097-69-1		
14.540	14.540	0.000	15614	0.10000	0.1000	80.00- 120.00	100.00
14.673	14.673	0.000	17165	0.10000	0.1000	88.56- 128.56	110.06
15.667	15.667	0.000	30653	0.10000	0.1000	118.76- 158.76	196.32
15.853	15.853	0.000	25371	0.10000	0.1000	73.14- 113.14	162.49
16.880	16.880	0.000	19138	0.10000	0.1000	90.47- 130.47	122.57
Average of Peak Amounts =					0.1		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
23.587	23.587	0.000	34099	0.04000	0.04000	80.00-- 120.00	100.00

Data File: /var/chem/gc4.i/4130-G.b/d-a4192.d

Date : 13-JUL-2000 21:18

Client ID: AR1254HA

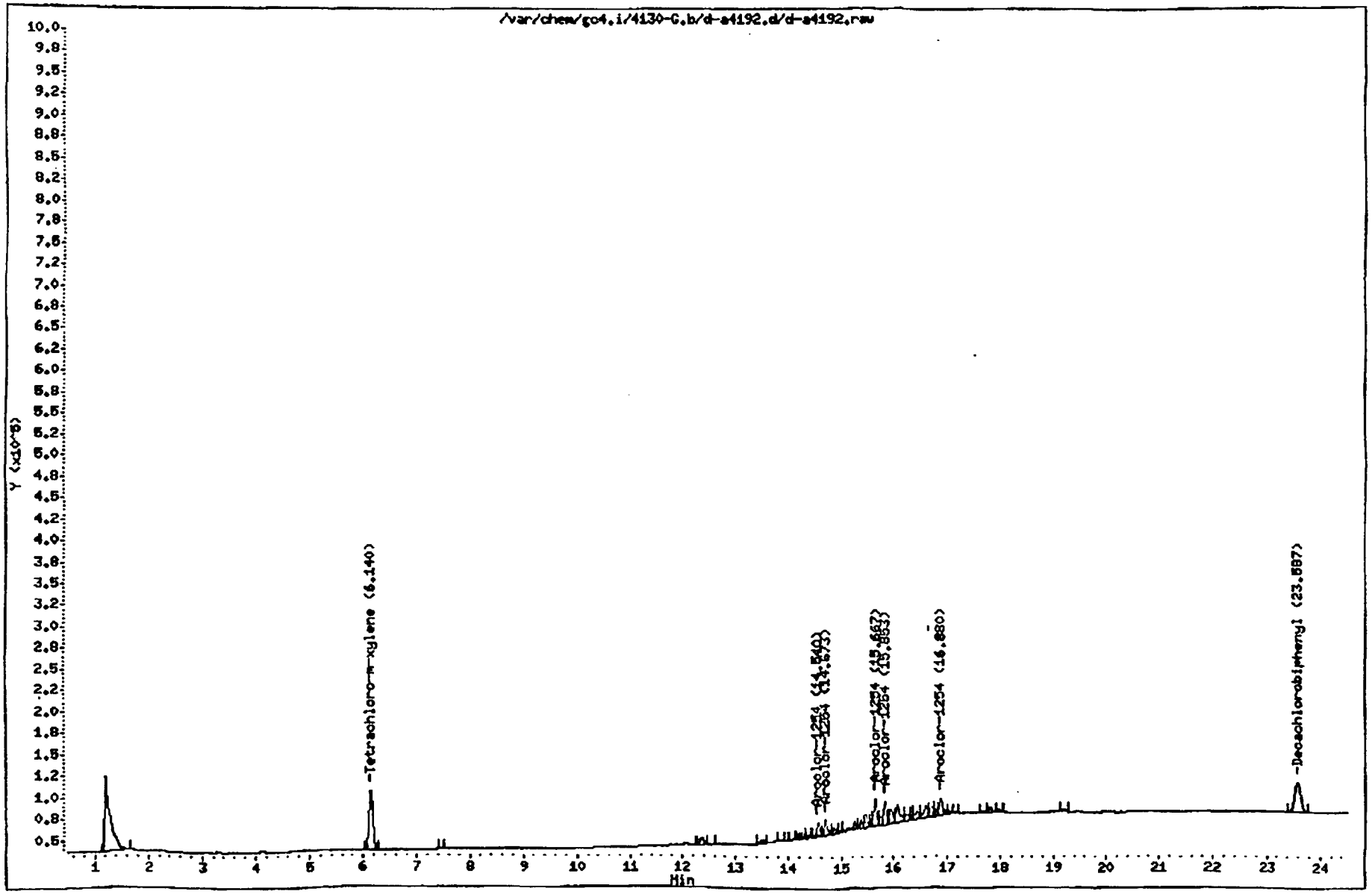
Sample Info: AR1254HA,4130-G.b,,6-AR1254.sub,,1,2

Column phase: DB608

Instrument: gc4.i

Operator: 01891

Column diameter: 0.53

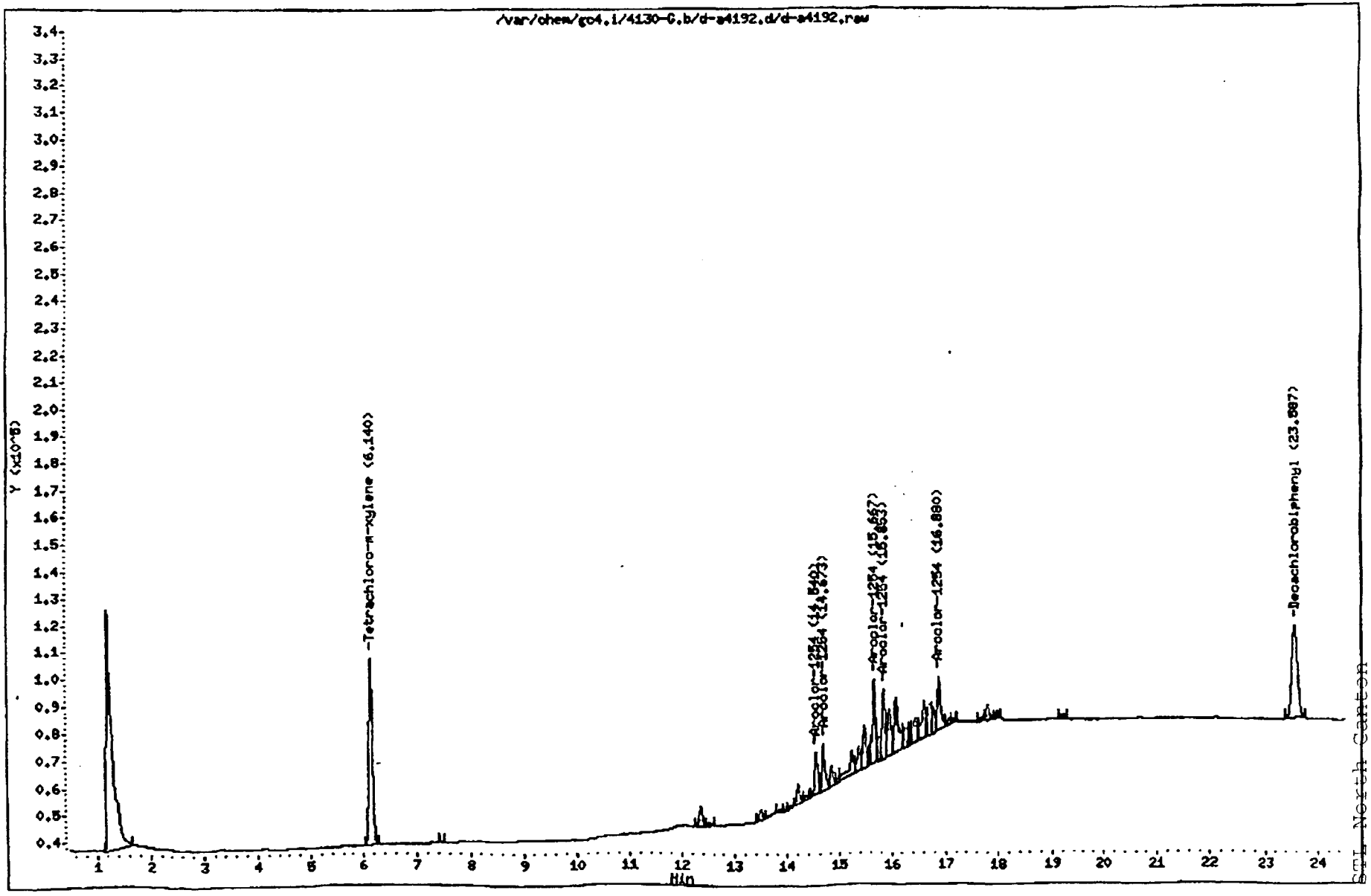


Data File: /var/chem/gc4.i/4130-C.b/d-a4192.d
Date : 13-JUL-2000 21:18
Client ID: AR1254HA
Sample Info: AR1254HA,4130-C.b,,6-AR1254.sub,,1,2

Column phase: DB608

Instrument: gc4.i

Operator: 01891
Column diameter: 0.53

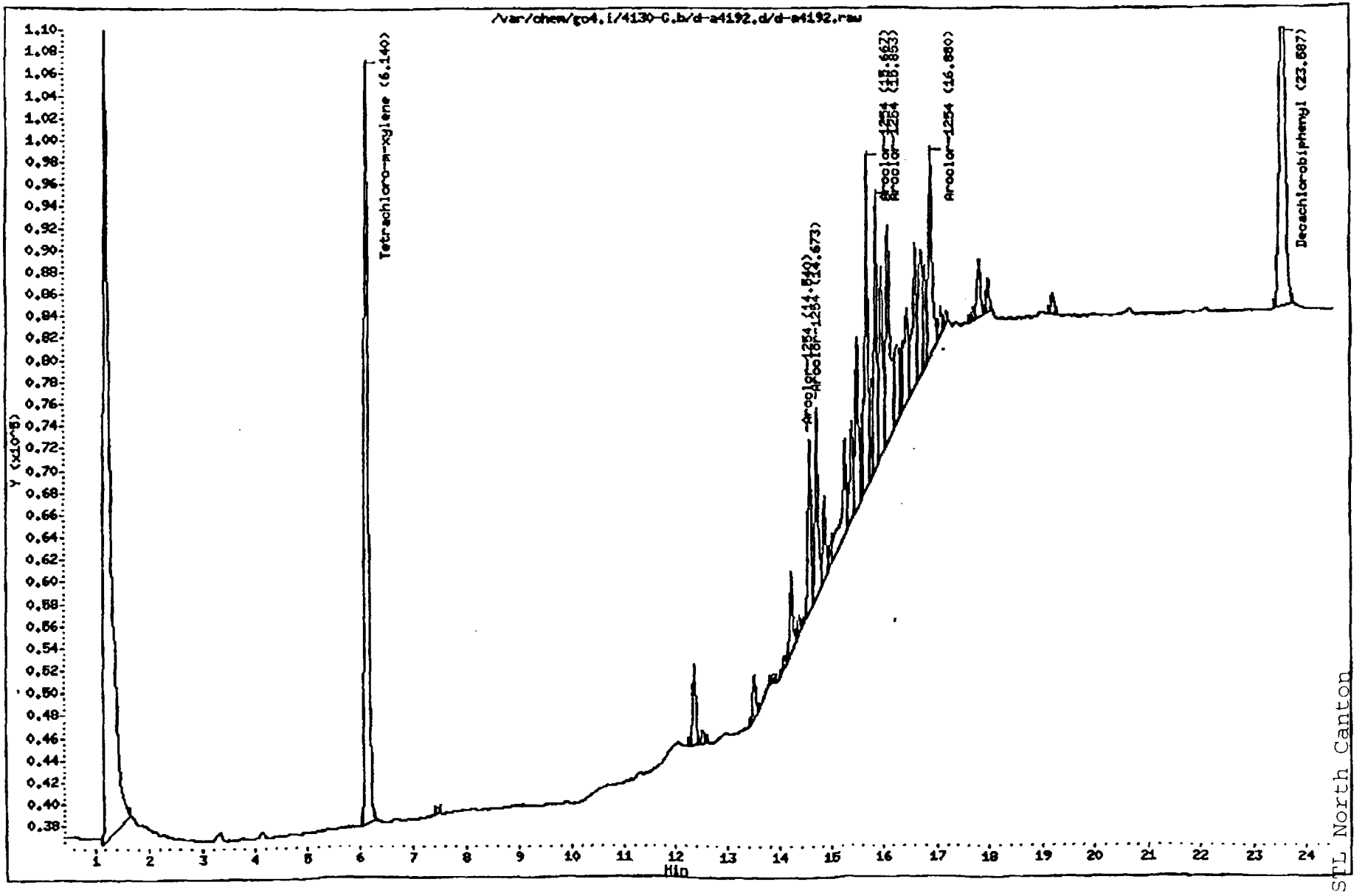


Data File: /var/chem/go4.i/4130-G.b/d-a4192.d
Date : 13-JUL-2000 21:18
Client ID: AR1254HA
Sample Info: AR1254HA,4130-G.b,,6-AR1254.sub,,1,2

Column phase: DB608

Instrument: go4.i

Operator: 01891
Column diameter: 0.53



STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-a4193.d
Lab Smp Id: TOXHA Client Smp ID: TOXHA
Inj Date : 13-JUL-2000 21:46
Operator : 01891 Inst ID: gc4.i
Smp Info : TOXHA,4130-G.b,,7-TOXAPH.sub,,1,2
Misc Info : 190-81-6
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4A.m
Meth Date : 14-Jul-2000 10:10 matkol Quant Type: ESTD
Cal Date : 13-JUL-2000 23:37 Cal File: d-a4197.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 7-TOXAPH.sub
Target Version: 3.40 Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.140	6.140	0.000	75482	0.02000	0.02000	80.00- 120.00	100.00
18 Toxaphene					CAS #: 8001-35-2		
16.360	16.360	0.000	17745	0.50000	0.5000	80.00- 120.00	100.00
16.540	16.540	0.000	26663	0.50000	0.5000	187.36- 227.36	150.26
16.947	16.947	0.000	17241	0.50000	0.5000	170.32- 210.32	97.16
18.280	18.280	0.000	22000	0.50000	0.5000	231.40- 271.40	123.98
Average of Peak Amounts =					0.5		
$ 30 Decachlorobiphenyl		-			CAS #: 2051-24-3		
23.587	23.587	0.000	37730	0.04000	0.04000	80.00- 120.00	100.00

Data File: /var/chem/go4.i/4130-G.b/d-a4193.d

Date : 13-JUL-2000 21:46

Client ID: TOXHA

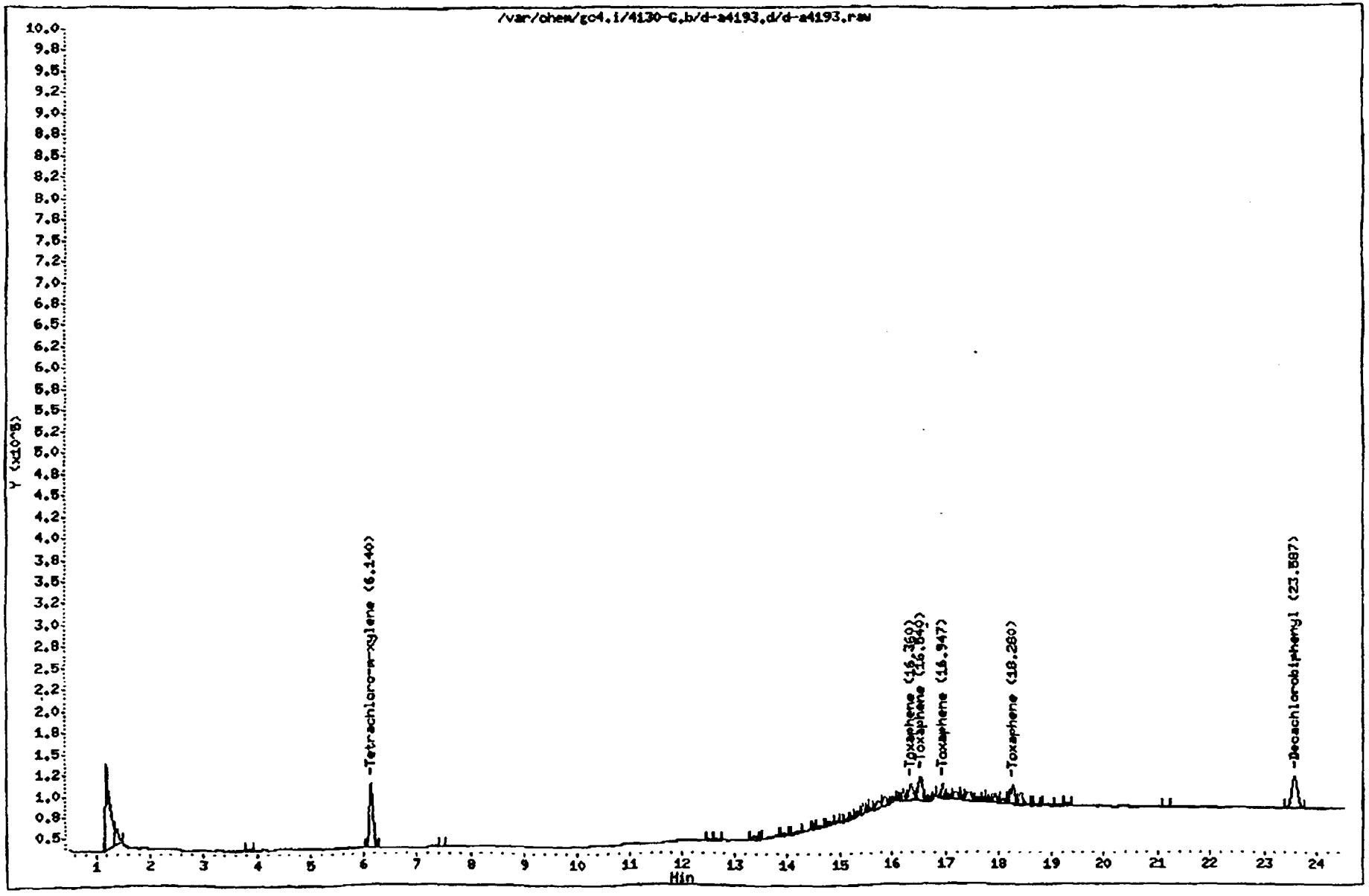
Instrument: go4.i

Sample Info: TOXHA,4130-G.b,,7-TOXAPH.sub,,1,2

Operator: 01891

Column phase: DB608

Column diameter: 0.53

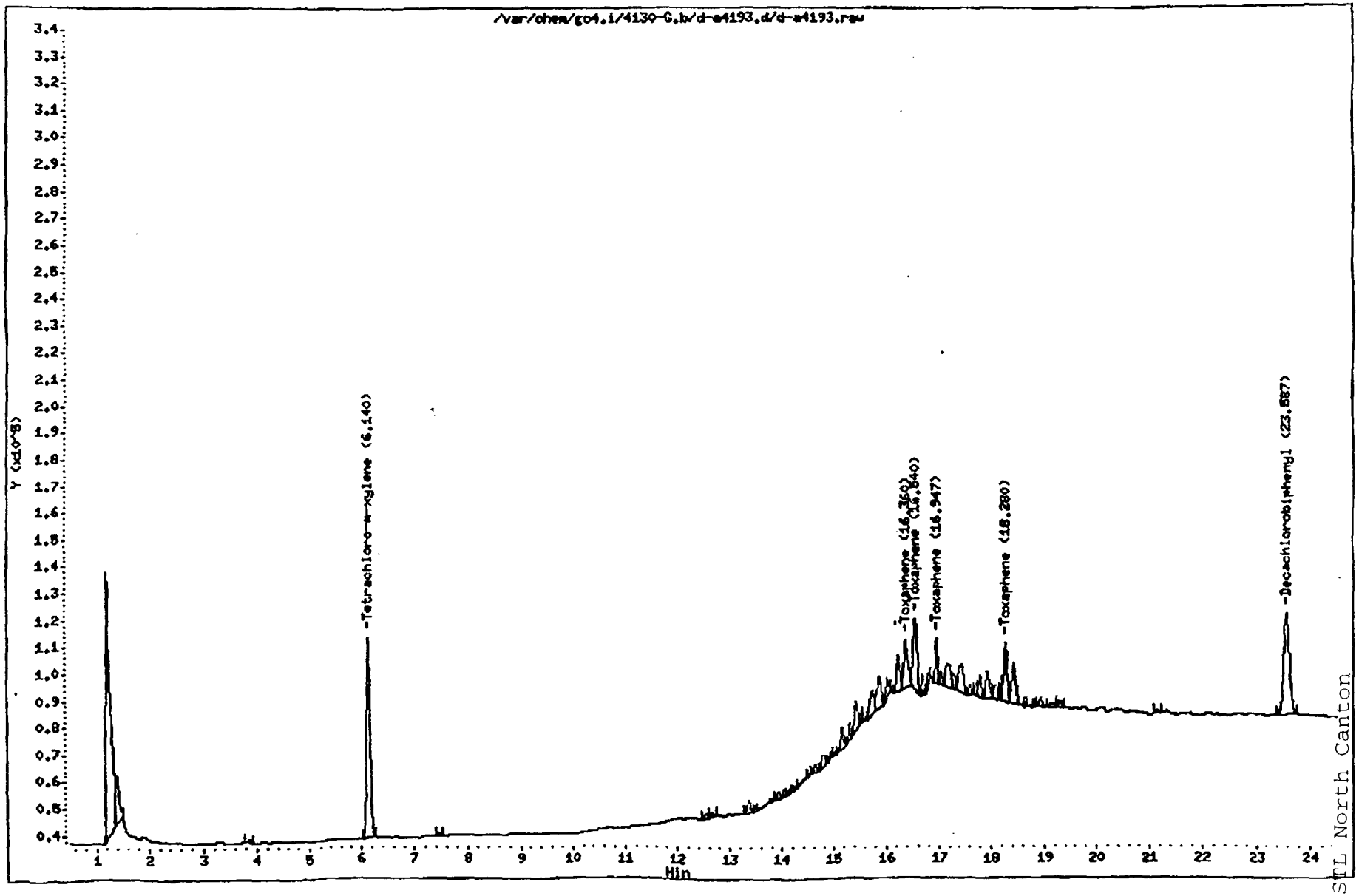


Data File: /var/chem/gc4.i/4130-G.b/d-a4193.d
Date : 13-JUL-2000 21:46
Client ID: TOXHA
Sample Info: TOXHA,4130-G.b,,7-TOXAPH.sub,,1,2

Column phase: DB608

Instrument: gc4.i

Operator: 01891
Column diameter: 0.53

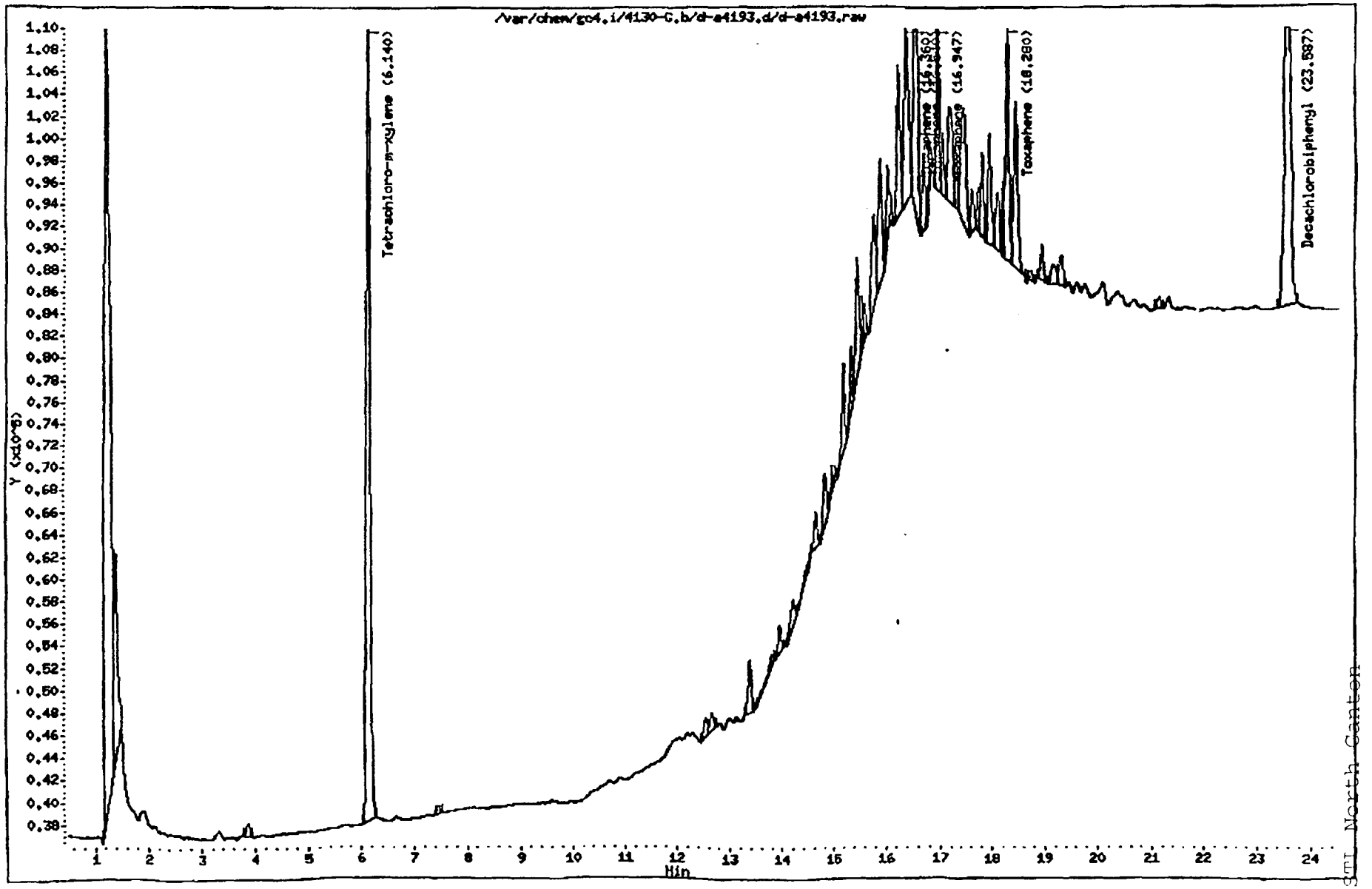


Data File: /var/chem/go4.i/4130-G.b/d-a4193.d
Date : 13-JUL-2000 21:46
Client ID: TOXHA
Sample Info: TOXHA,4130-G.b,,7-TOXAPH.sub,,1,2

Column phase: DB608

Instrument: go4.i

Operator: 01891
Column diameter: 0.53



STL-PITTSBURGH

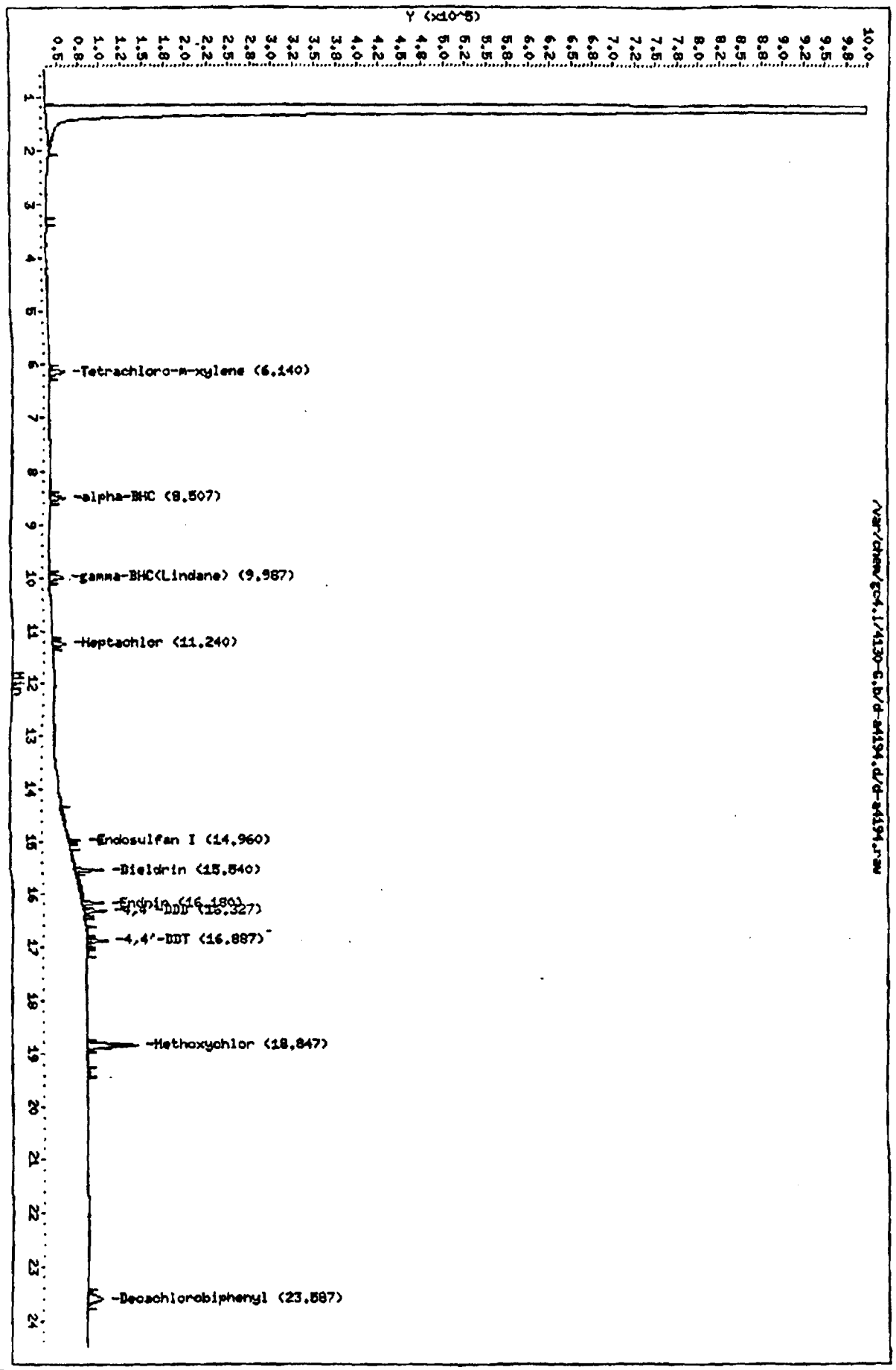
Data file : /var/chem/gc4.i/4130-G.b/d-a4194.d
Lab Smp Id: INDALHA Client Smp ID: INDALHA
Inj Date : 13-JUL-2000 22:14
Operator : 01891 Inst ID: gc4.i
Smp Info : INDALHA,4130-G.b,,8-INDA.sub,,1,1
Misc Info : 190-82-1
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4A.m
Meth Date : 14-Jul-2000 10:10 matkol Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-a4199.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8-INDA.sub
Target Version: 3.40 Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.140	6.140	0.000	18046	0.00500	0.005367	80.00- 120.00	100.00
5 alpha-BHC					CAS #: 319-84-6		
8.507	8.507	0.000	17712	0.00500	0.004296	80.00- 120.00	100.00
7 gamma-BHC(Lindane)					CAS #: 58-89-9		
9.967	9.969	-0.002	15559	0.00500	0.004467	80.00- 120.00	100.00
9 Heptachlor					CAS #: 76-44-8		
11.240	11.243	-0.003	15264	0.00500	0.004765	80.00- 120.00	100.00
17 Endosulfan I					CAS #: 959-98-8		
14.960	14.960	0.000	14210	0.00500	0.004433	80.00- 120.00	100.00
20 Dieldrin					CAS #: 60-57-1		
15.540	15.545	-0.005	33872	0.01000	0.009162	80.00- 120.00	100.00
22 Endrin					CAS #: 72-20-8		
16.180	16.180	0.000	25054	0.01000	0.009227	80.00- 120.00	100.00
23 4,4'-DDD					CAS #: 72-54-8		
16.327	16.327	0.000	26694	0.01000	0.008859	80.00- 120.00	100.00
25 4,4'-DDT					CAS #: 50-29-3		
16.887	16.888	-0.001	25636	0.01000	0.008820	80.00- 120.00	100.00

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
28 Methoxychlor					CAS #: 72-43-5		
18.847	18.849	-0.002	59291	0.05000	0.04786	80.00- 120.00	100.00
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
23.567	23.567	0.000	17459	0.01000	0.01052	80.00- 120.00	100.00

Data File: /var/chem/gc4.i/4130-G.b/d-84194.d
Date : 13-JUL-2000 22:14
Client ID: INDRLHA
Sample Info: INDRLHA,4130-G.b,8-INDR.sub,,1,1
Column phase: DB608

Instrument: gc4.i
Operator: 01891
Column diameter: 0.53



Data File: /var/chem/gc4.i/4130-G.b/d-a4194.d
Date : 13-JUL-2000 22:14
Client ID: INDALHA
Sample Info: INDALHA,4130-G.b,,8-INDA.sub,,1,1

Column phase: DB608

Instrument: gc4.i

Operator: 01891
Column diameter: 0.53

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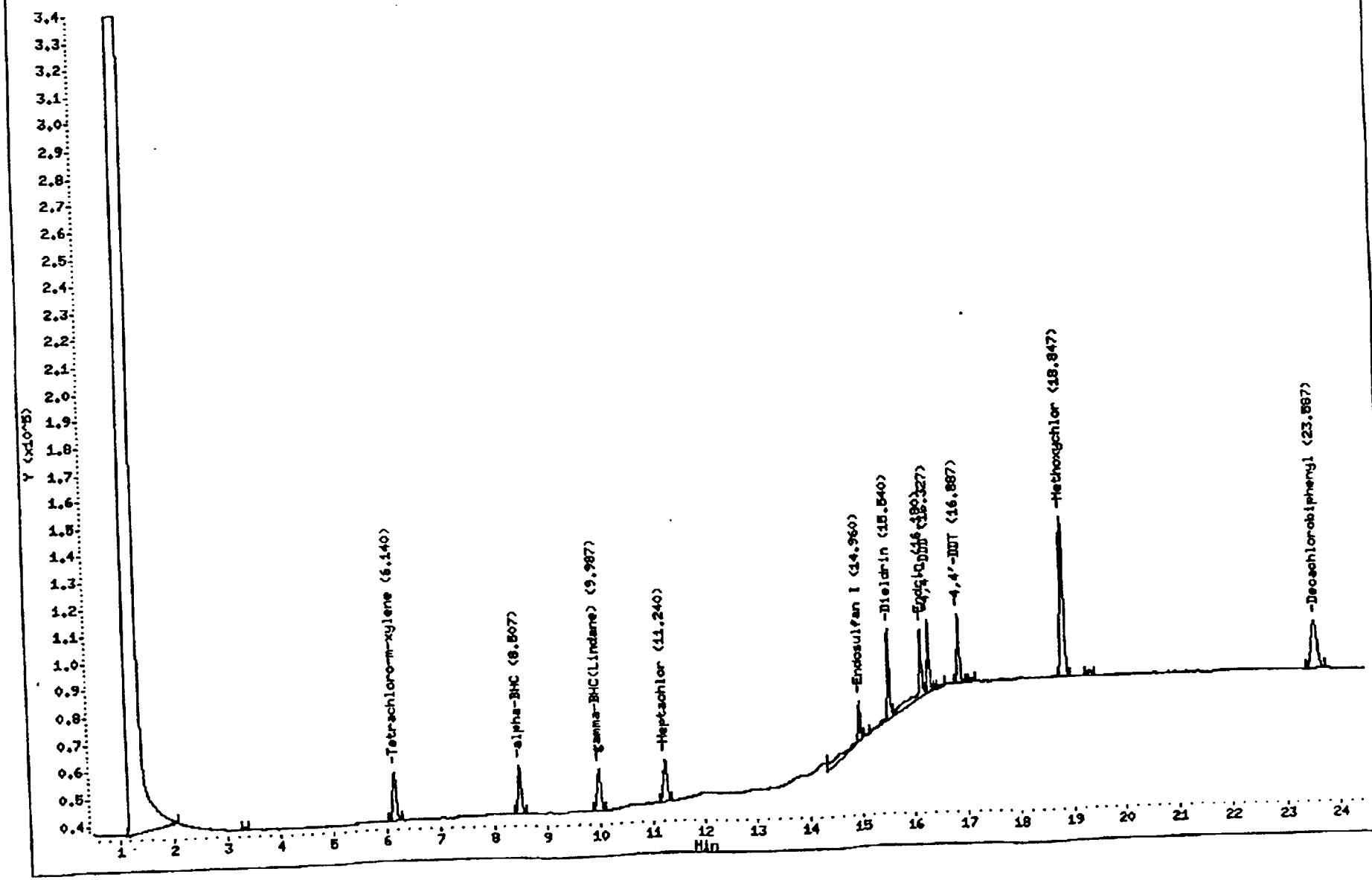


STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-a4195.d
Lab Smp Id: INDBLHA Client Smp ID: INDBLHA
Inj Date : 13-JUL-2000 22:41
Operator : 01891 Inst ID: gc4.i
Smp Info : INDBLHA,4130-G.b,,9-INDB.sub,,1,1
Misc Info : 190-82-4
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4A.m
Meth Date : 14-Jul-2000 10:10 matkol Quant Type: ESTD
Cal Date : 13-JUL-2000 23:37 Cal File: d-a4197.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 9-INDB.sub
Target Version: 3.40 Sample Matrix: None

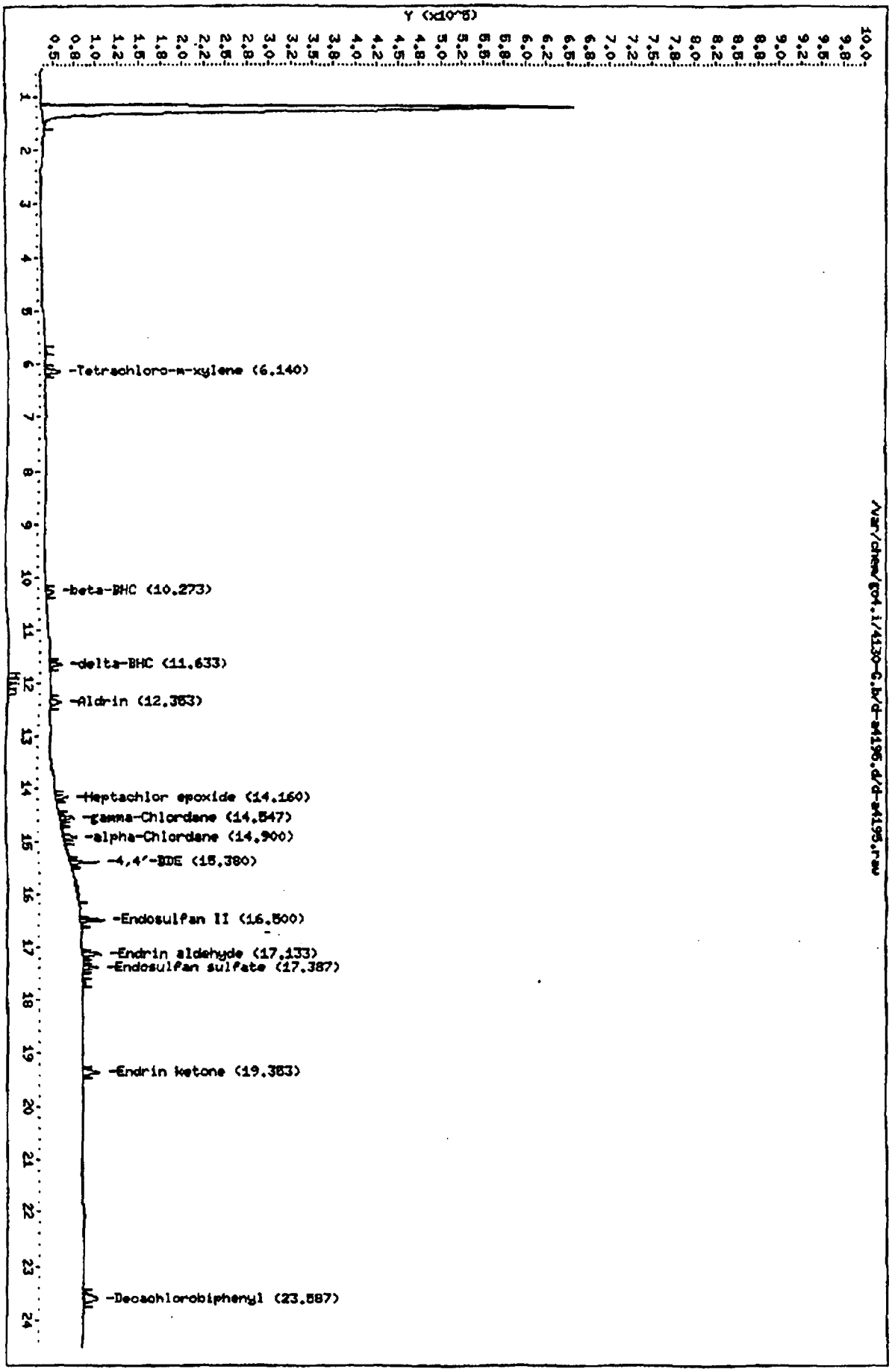
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.140	6.140	0.000	17731	0.00500	0.004696	80.00- 120.00	100.00
8 beta-BHC					CAS #: 319-85-7		
10.273	10.275	-0.002	45097	0.00500	0.005005	80.00- 120.00	100.00
11 delta-BHC					CAS #: 319-86-8		
11.633	11.637	-0.004	13816	0.00500	0.004368	80.00- 120.00	100.00
12 Aldrin					CAS #: 309-00-2		
12.353	12.352	0.001	12279	0.00500	0.004728	80.00- 120.00	100.00
13 Heptachlor epoxide					CAS #: 1024-57-3		
14.160	14.160	0.000	14356	0.00500	0.004727	80.00- 120.00	100.00
14 gamma-Chlordane					CAS #: 5103-74-2		
14.547	14.551	-0.004	15803	0.00500	0.004998	80.00- 120.00	100.00
16 alpha-Chlordane					CAS #: 5103-71-9		
14.900	14.900	0.000	15795	0.00500	0.004732	80.00- 120.00	100.00
19 4,4'-DDE					CAS #: 72-55-9		
15.380	15.380	0.000	33932	0.01000	0.009188	80.00- 120.00	100.00
24 Endosulfan II					CAS #: 33213-65-9		
16.500	16.500	0.000	28250	0.01000	0.009332	80.00- 120.00	100.00

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
26 Endrin aldehyde					CAS #: 7421-93-4		
17.133	17.132	0.001	20781	0.01000	0.009749	80.00- 120.00	100.00
27 Endosulfan sulfate					CAS #: 1031-07-8		
17.387	17.388	-0.001	17663	0.01000	0.008885	80.00- 120.00	100.00
29 Endrin ketone					CAS #: 53494-70-5		
19.353	19.352	0.001	19078	0.01000	0.009180	80.00- 120.00	100.00
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
23.587	23.587	0.000	16836	0.01000	0.01785	80.00- 120.00	100.00

Data File: /var/chem/gc4.i/4130-G.b/d-a4195.d
Date : 13-JUL-2000 22:41
Client ID: INDBLHA
Sample Info: INDBLHA,4130-G.b,,9-INDB,sub,,1,1

Column phase: DB608

Instrument: gc4.i
Operator: 01891
Column diameter: 0.53

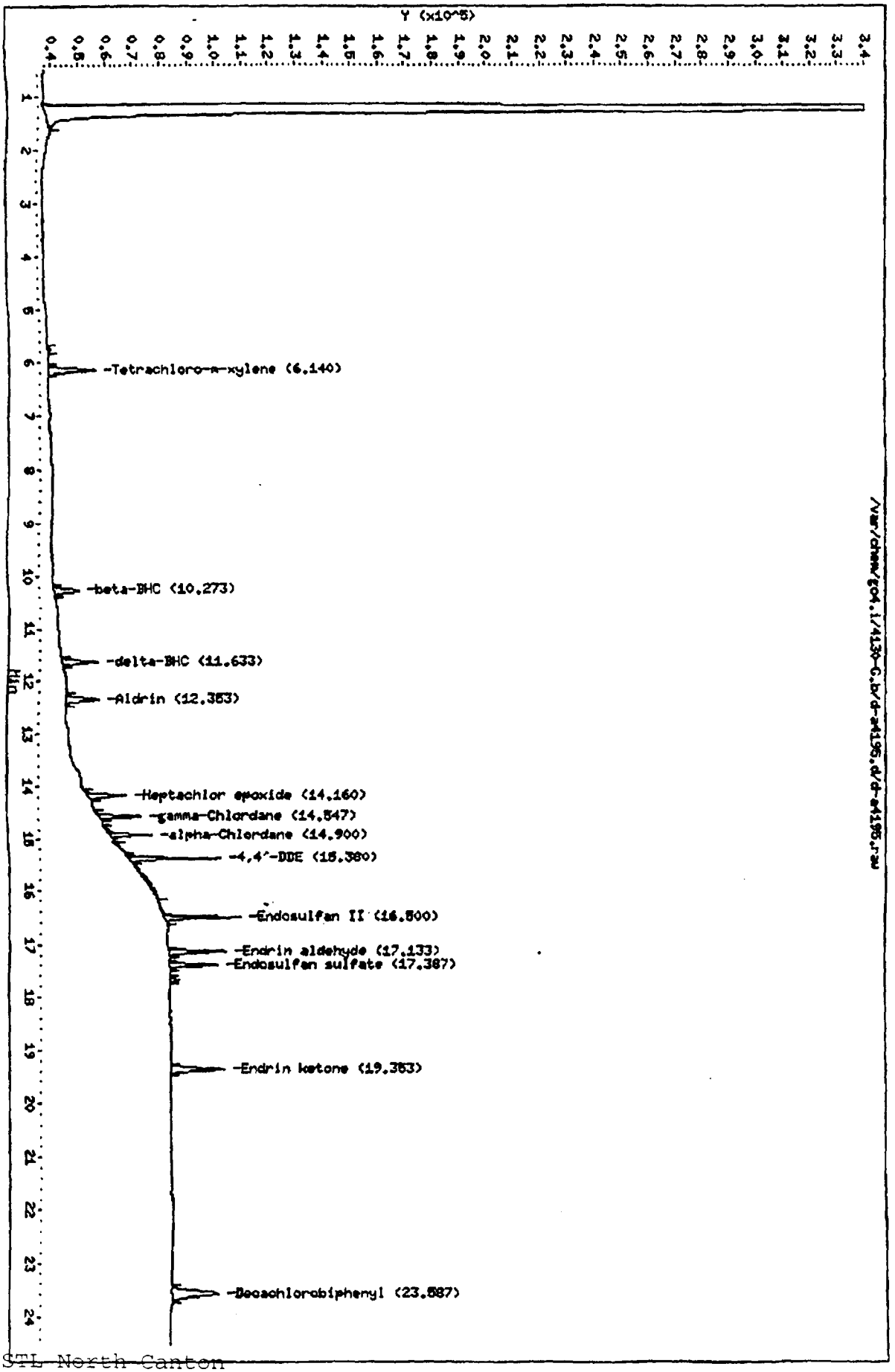


Page 3

Data File: /var/chem/gc4.i/4130-6.b/d-a4195.d
Date : 13-JUL-2000 22:41
Client ID: INDBLHA
Sample Info: INDBLHA,4130-6.b,,9-INDB,sub,,1,1

Column phase: DB608

Instrument: gc4.i
Operator: 01891
Column diameter: 0.53



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Page 1

STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-a4196.d
Lab Smp Id: INDAMHA Client Smp ID: INDAMHA
Inj Date : 13-JUL-2000 23:09
Operator : 01891 Inst ID: gc4.i
Smp Info : INDAMHA,4130-G.b,,8-INDA.sub,,1,2
Misc Info : 190-82-2
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4A.m
Meth Date : 14-Jul-2000 10:10 matkol Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-a4199.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8-INDA.sub
Target Version: 3.40 Sample Matrix: None

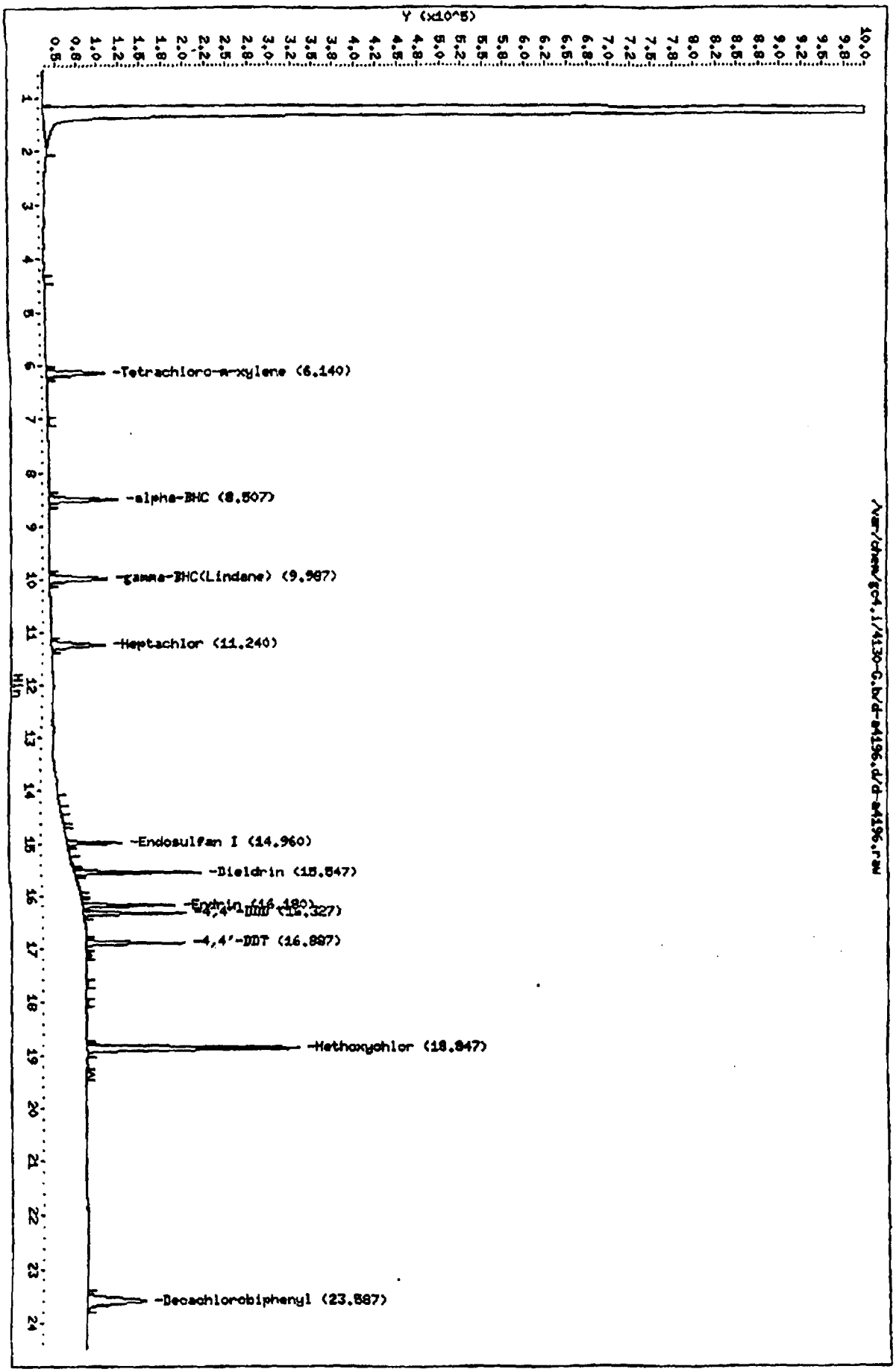
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.140	6.140	0.000	70136	0.02000	0.02000	80.00- 120.00	100.00
5 alpha-BHC					CAS #: 319-84-6		
8.507	8.507	0.000	82461	0.02000	0.02000	80.00- 120.00	100.00
7 gamma-BHC(Lindane)					CAS #: 58-89-9		
9.987	9.989	-0.002	69346	0.02000	0.02000	80.00- 120.00	100.00
9 Heptachlor					CAS #: 76-44-8		
11.240	11.243	-0.003	63885	0.02000	0.02000	80.00- 120.00	100.00
17 Endosulfan I					CAS #: 959-98-8		
14.960	14.960	0.000	64106	0.02000	0.02000	80.00- 120.00	100.00
20 Dieldrin					CAS #: 60-57-1		
15.547	15.545	0.002	147675	0.04000	0.04000	80.00- 120.00	100.00
22 Endrin					CAS #: 72-20-8		
16.180	16.180	0.000	108606	0.04000	0.04000	80.00- 120.00	100.00
23 4,4'-DDD					CAS #: 72-54-8		
16.327	16.327	0.000	120524	0.04000	0.04000	80.00- 120.00	100.00
25 4,4'-DDT					CAS #: 50-29-3		
16.887	16.888	-0.001	116256	0.04000	0.04000	80.00- 120.00	100.00

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
28 Methoxychlor					CAS #: 72-43-5		
18.847	18.849	-0.002	247760	0.20000	0.2000	80.00- 120.00	100.00
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
23.587	23.587	0.000	70079	0.04000	0.04000	80.00- 120.00	100.00

Data File: /var/chem/gc4.i/4130-G.b/d-m196.d
Date : 13-JUL-2000 23:09
Client ID: INDMMM
Sample Info: INDMMM,4130-G.b,,0-INDA,sub,,1,2
Column phase: DB608

Instrument: gc4.i
Operator: 01891
Column diameter: 0.53

Page 3

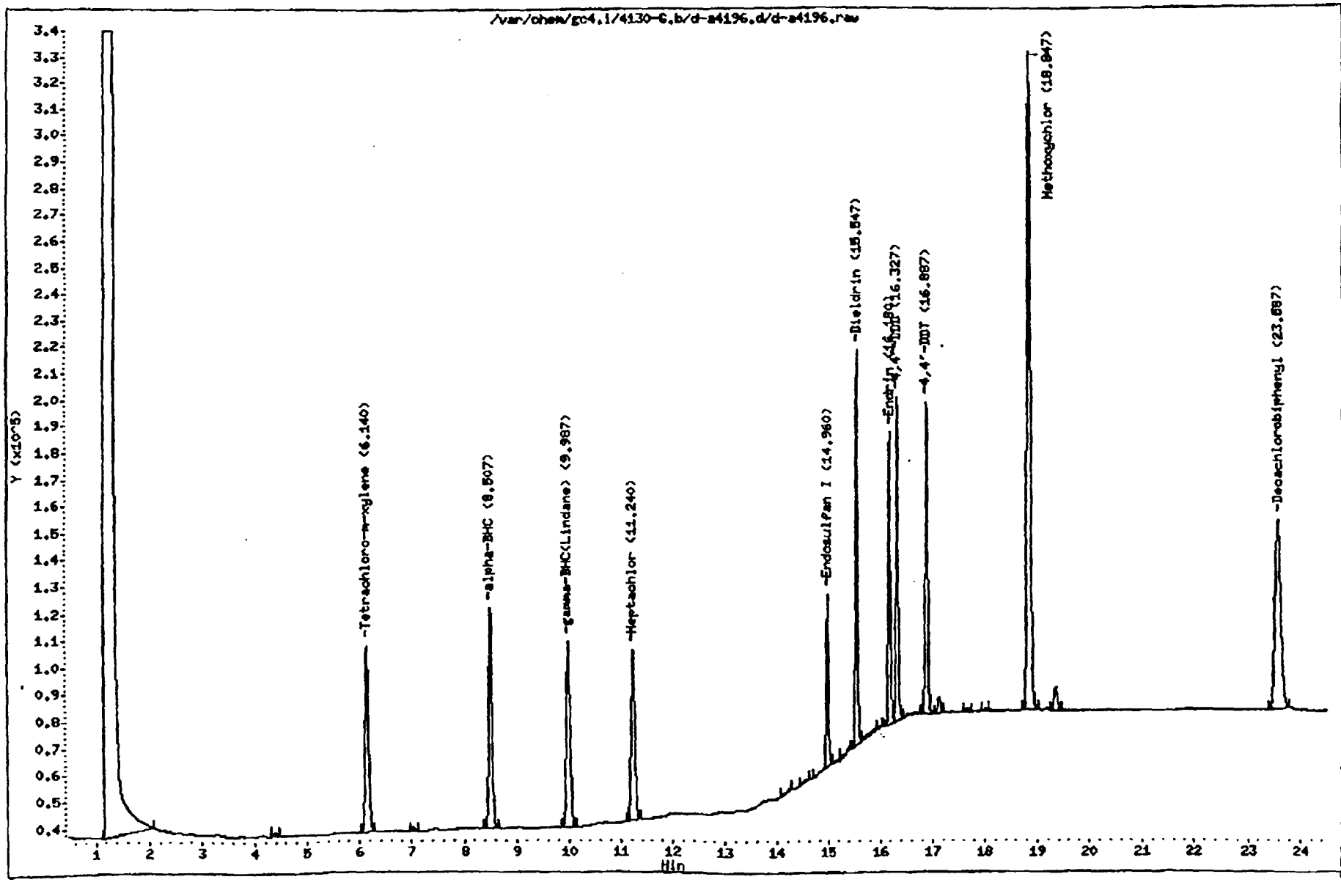


Data File: /var/chem/gc4.i/4130-G.b/d-a4196.d
Date : 13-JUL-2000 23:09
Client ID: INDAHHA
Sample Info: INDAHHA,4130-G.b,,8-INDA.sub,,1,2

Column phase: DB608

Instrument: gc4.i

Operator: 01891
Column diameter: 0.53



STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-a4197.d
Lab Smp Id: INDBMHA Client Smp ID: INDBMHA
Inj Date : 13-JUL-2000 23:37
Operator : 01891 Inst ID: gc4.i
Smp Info : INDBMHA,4130-G.b,,9-INDB.sub,,1,2
Misc Info : 190-82-5
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4A.m
Meth Date : 14-Jul-2000 10:10 matkol Quant Type: ESTD
Cal Date : 13-JUL-2000 23:37 Cal File: d-a4197.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 9-INDB.sub
Target Version: 3.40 Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.140	6.140	0.000	67242	0.02000	0.02000	80.00- 120.00	100.00
8 beta-BHC					CAS #: 319-85-7		
10.273	10.275	-0.002	180198	0.02000	0.02000	80.00- 120.00	100.00
11 delta-BHC					CAS #: 319-86-8		
11.640	11.637	0.003	63255	0.02000	0.02000	80.00- 120.00	100.00
12 Aldrin					CAS #: 309-00-2		
12.353	12.352	0.001	51941	0.02000	0.02000	80.00- 120.00	100.00
13 Heptachlor epoxide					CAS #: 1024-57-3		
14.160	14.160	0.000	60742	0.02000	0.02000	80.00- 120.00	100.00
14 gamma-Chlordane					CAS #: 5103-74-2		
14.553	14.551	0.002	63234	0.02000	0.02000	80.00- 120.00	100.00
16 alpha-Chlordane					CAS #: 5103-71-9		
14.900	14.900	0.000	66783	0.02000	0.02000	80.00- 120.00	100.00
19 4,4'-DDE					CAS #: 72-55-9		
15.380	15.380	0.000	147727	0.04000	0.04000	80.00- 120.00	100.00
24 Endosulfan II					CAS #: 33213-65-9		
16.500	16.500	0.000	121092	0.04000	0.04000	80.00- 120.00	100.00

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
26 Endrin aldehyde					CAS #: 7421-93-4		
17.133	17.132	0.001	85261	0.04000	0.04000	80.00- 120.00	100.00
27 Endosulfan sulfate					CAS #: 1031-07-8		
17.387	17.388	-0.001	79517	0.04000	0.04000	80.00- 120.00	100.00
29 Endrin ketone					CAS #: 53494-70-5		
19.353	19.352	0.001	83133	0.04000	0.04000	80.00- 120.00	100.00
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
23.587	23.587	0.000	66357	0.04000	0.04000	80.00- 120.00	100.00

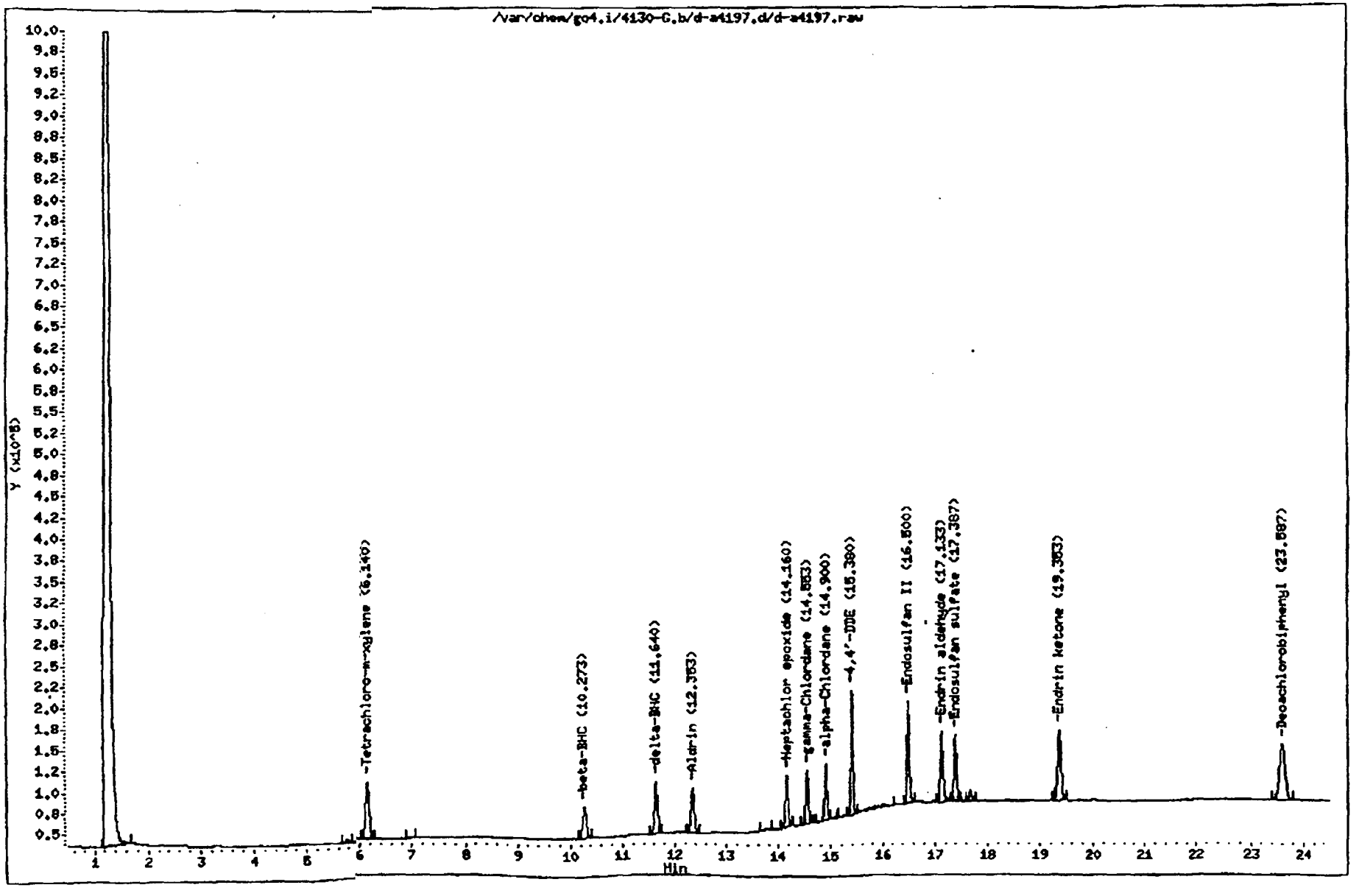
Data File: /var/chem/gc4.i/4130-G.b/d-a4197.d
Date : 13-JUL-2000 23:37
Client ID: INDBHHA
Sample Info: INDBHHA,4130-G.b,,9-INDB,sub,,1,2

Column phase: DB608

Page 3

Instrument: gc4.i

Operator: 01891
Column diameter: 0.53

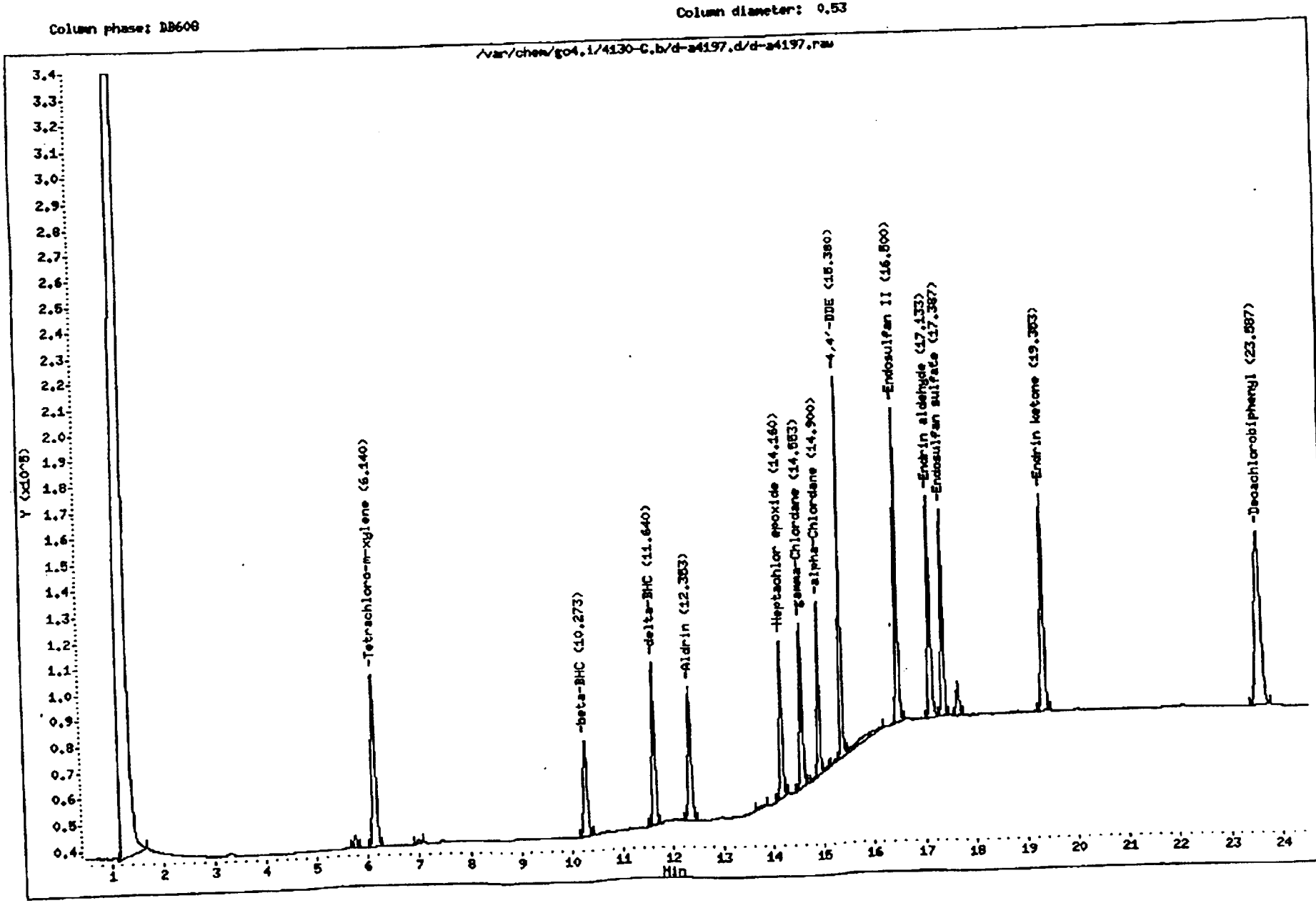


Data File: /var/chem/go4.i/4130-C.b/d-a4197.d
Date : 13-JUL-2000 23:37
Client ID: INDBMHA
Sample Info: INDBMHA,4130-C.b,,9-INDB.sub,,1,2

Column phase: DB608

Instrument: go4.i

Operator: 01891
Column diameter: 0.53



STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-a4198.d
Lab Smp Id: INDAHHA Client Smp ID: INDAHHA
Inj Date : 14-JUL-2000 00:04
Operator : 01891 Inst ID: gc4.i
Smp Info : INDAHHA,4130-G.b,,8-INDA.sub,,1,3
Misc Info : 190-82-3
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4A.m
Meth Date : 14-Jul-2000 10:10 matkol Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-a4199.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8-INDA.sub
Target Version: 3.40 Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
# 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.140	6.140	0.000	260226	0.08000	0.07421	80.00- 120.00	100.00
5 alpha-BHC					CAS #: 319-84-6		
8.507	8.507	0.000	365522	0.08000	0.08865	80.00- 120.00	100.00(A)
7 gamma-BHC(Lindane)					CAS #: 58-89-9		
9.993	9.989	0.004	300608	0.08000	0.08670	80.00- 120.00	100.00(A)
9 Heptachlor					CAS #: 76-44-8		
11.247	11.243	0.004	276573	0.08000	0.08658	80.00- 120.00	100.00(A)
17 Endosulfan I					CAS #: 959-98-8		
14.960	14.960	0.000	278908	0.08000	0.08702	80.00- 120.00	100.00(A)
20 Dieldrin					CAS #: 60-57-1		
15.547	15.545	0.002	640672	0.16000	0.1733	80.00- 120.00	100.00(A)
22 Endrin					CAS #: 72-20-8		
16.180	16.180	0.000	470032	0.16000	0.1731	80.00- 120.00	100.00(A)
23 4,4'-DDD					CAS #: 72-54-8		
16.327	16.327	0.000	508165	0.16000	0.1686	80.00- 120.00	100.00(A)
25 4,4'-DDT					CAS #: 50-29-3		
16.887	16.888	-0.001	496653	0.16000	0.1709	80.00- 120.00	100.00(A)

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
28 Methoxychlor					CAS #: 72-43-5		
18.853	18.849	0.004	915118	0.80000	0.7387	80.00- 120.00	100.00
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
23.887	23.587	0.000	263053	0.16000	0.1501	80.00- 120.00	100.00

QC Flag Legend

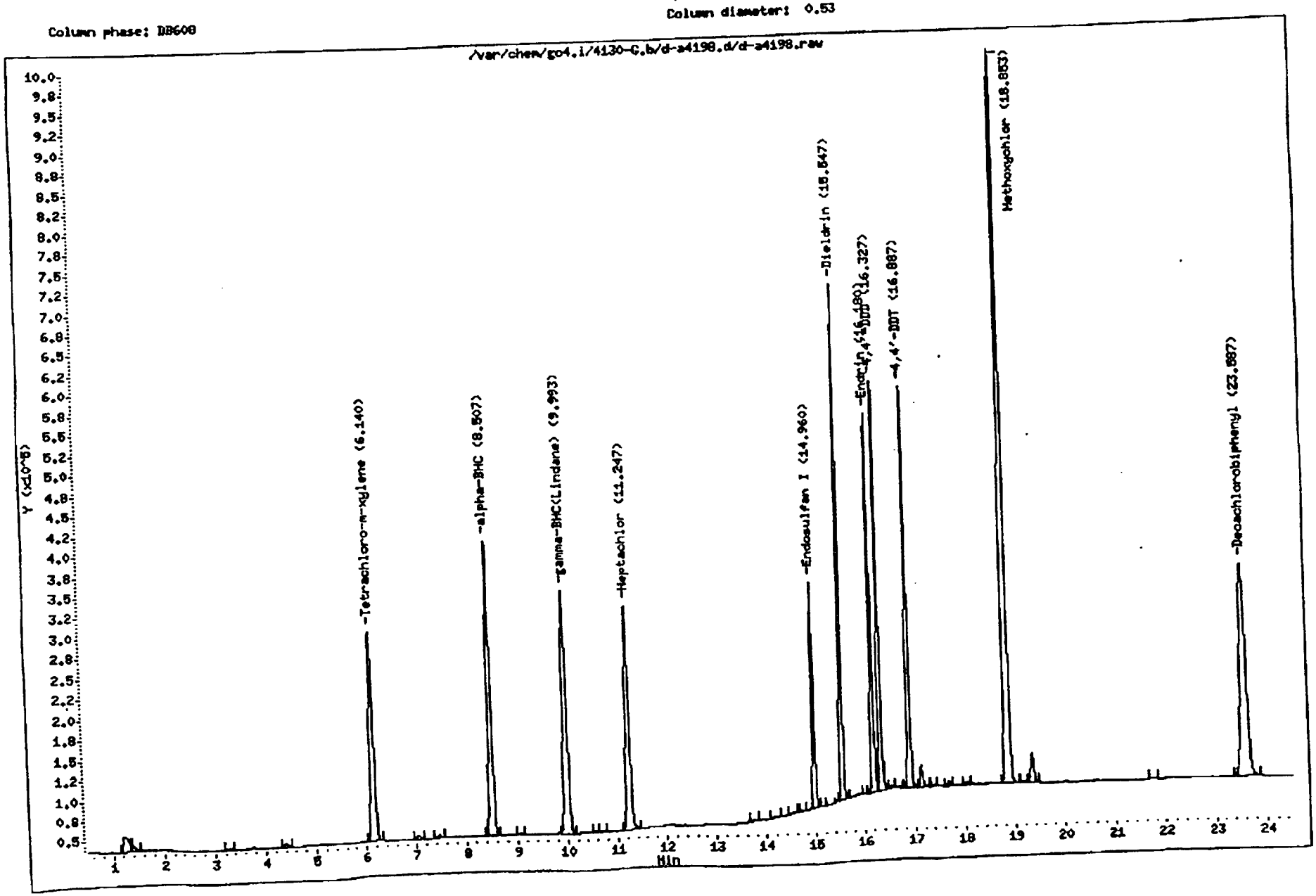
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /var/chem/gc4.i/4130-C.b/d-a4198.d
Date : 14-JUL-2000 00:04
Client ID: INDAHHA
Sample Info: INDAHHA,4130-C.b,,8-INDA.sub,,1,3

Instrument: gc4.i

Operator: 01891
Column diameter: 0.53

Column phase: DB608

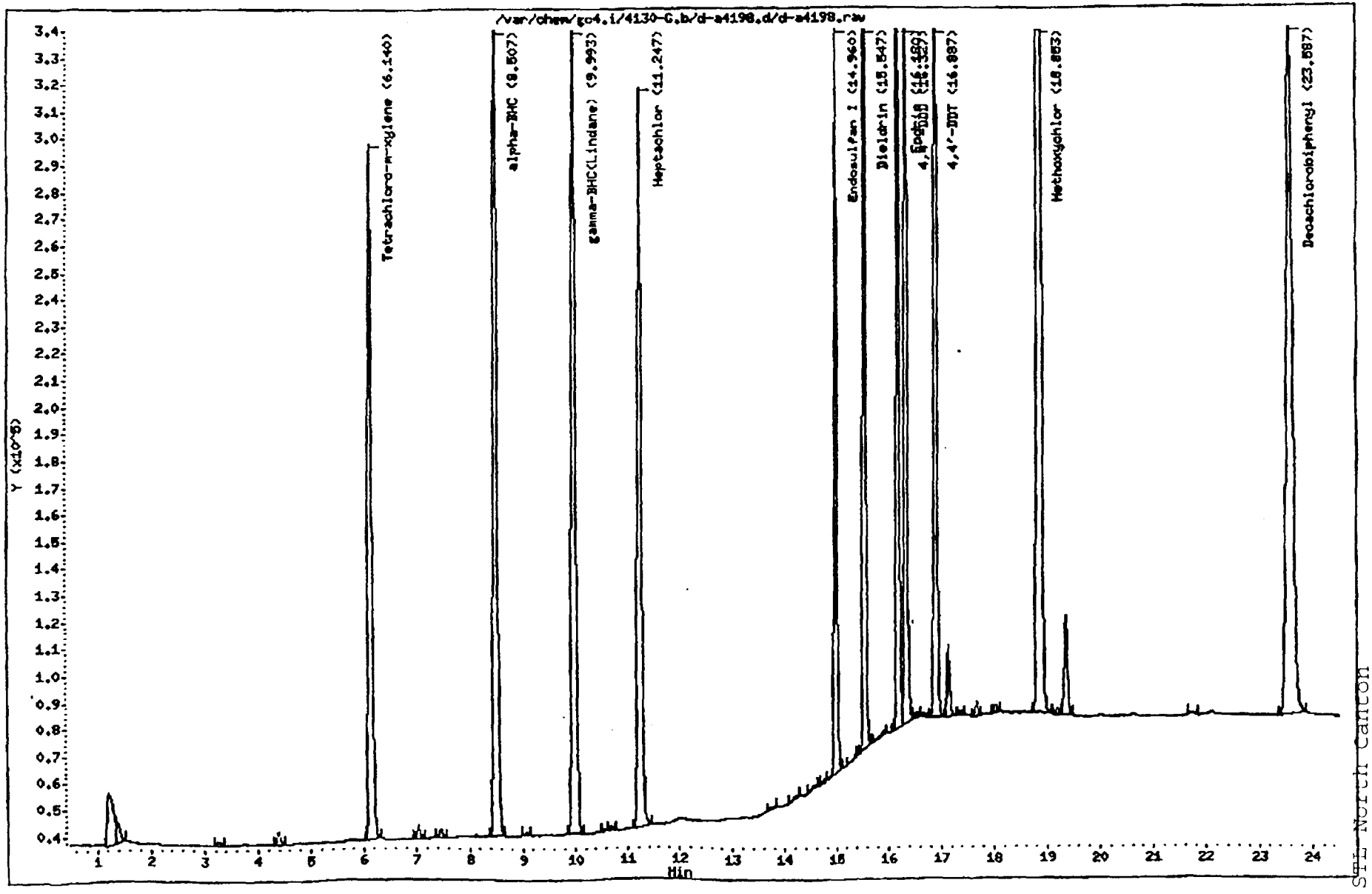


Data File: /var/chem/go4.i/4130-G.b/d-a4198.d
Date : 14-JUL-2000 00:04
Client ID: INDAHHA
Sample Info: INDAHHA,4130-G.b,,8-INDA.sub,,1,3

Column phase: DB608

Instrument: go4.i

Operator: 01891
Column diameter: 0.53



STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-a4199.d
Lab Smp Id: INDBHHA Client Smp ID: INDBHHA
Inj Date : 14-JUL-2000 00:32
Operator : 01891 Inst ID: gc4.i
Smp Info : INDBHHA,4130-G.b,,9-INDB.sub,,1,3
Misc Info : 190-82-6
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4A.m
Meth Date : 14-Jul-2000 10:10 matkol Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-a4199.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 9-INDB.sub
Target Version: 3.40 Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
# 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.140	6.140	0.000	247412	0.08000	0.07359	80.00- 120.00	100.00
8 beta-BHC					CAS #: 319-85-7		
10.280	10.275	0.005	708812	0.08000	0.07867	80.00- 120.00	100.00
11 delta-BHC					CAS #: 319-86-8		
11.640	11.637	0.003	266554	0.08000	0.09124	80.00- 120.00	100.00(A)
12 Aldrin					CAS #: 309-00-2		
12.353	12.352	0.001	233467	0.08000	0.08990	80.00- 120.00	100.00(A)
13 Heptachlor epoxide					CAS #: 1024-57-3		
14.160	14.160	0.000	263954	0.08000	0.08691	80.00- 120.00	100.00(A)
14 gamma-Chlordane					CAS #: 5103-74-2		
14.553	14.551	0.002	270097	0.08000	0.08543	80.00- 120.00	100.00(A)
16 alpha-Chlordane					CAS #: 5103-71-9		
14.900	14.900	0.000	276259	0.08000	0.08277	80.00- 120.00	100.00(A)
19 4,4'-DDE					CAS #: 72-55-9		
15.380	15.380	0.000	619843	0.16000	0.1678	80.00- 120.00	100.00(A)
24 Endosulfan II					CAS #: 33213-65-9		
16.500	16.500	0.000	501843	0.16000	0.1656	80.00- 120.00	100.00(A)

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
26 Endrin aldehyde					CAS #: 7421-93-4		
17.133	17.132	0.001	344312	0.16000	0.1615	80.00- 120.00	100.00(A)
27 Endosulfan sulfate					CAS #: 1031-07-8		
17.367	17.368	-0.001	359622	0.16000	0.1809	80.00- 120.00	100.00(A)
29 Endrin ketone					CAS #: 53494-70-5		
19.353	19.352	0.001	353144	0.16000	0.1699	80.00- 120.00	100.00(A)
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
23.587	23.587	0.000	243828	0.16000	0.1470	80.00- 120.00	100.00

QC Flag Legend

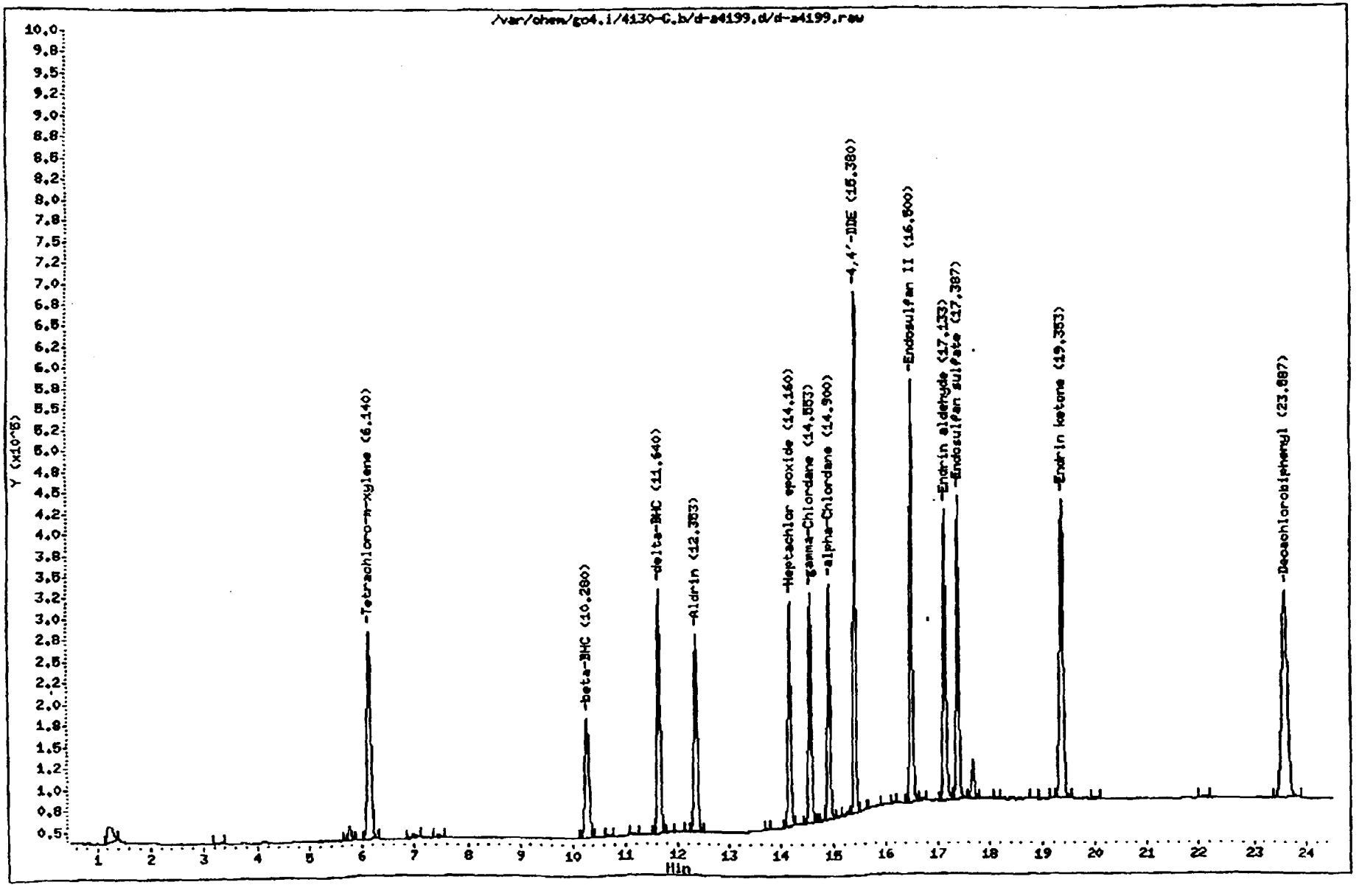
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /var/chem/go4.i/4130-G.b/d-a4199.d
Date : 14-JUL-2000 00:32
Client ID: INDBHHA
Sample Info: INDBHHA,4130-G.b,,9-INDB.sub,,1,3

Column phase: DB608

Instrument: go4.i

Operator: 01891
Column diameter: 0.53

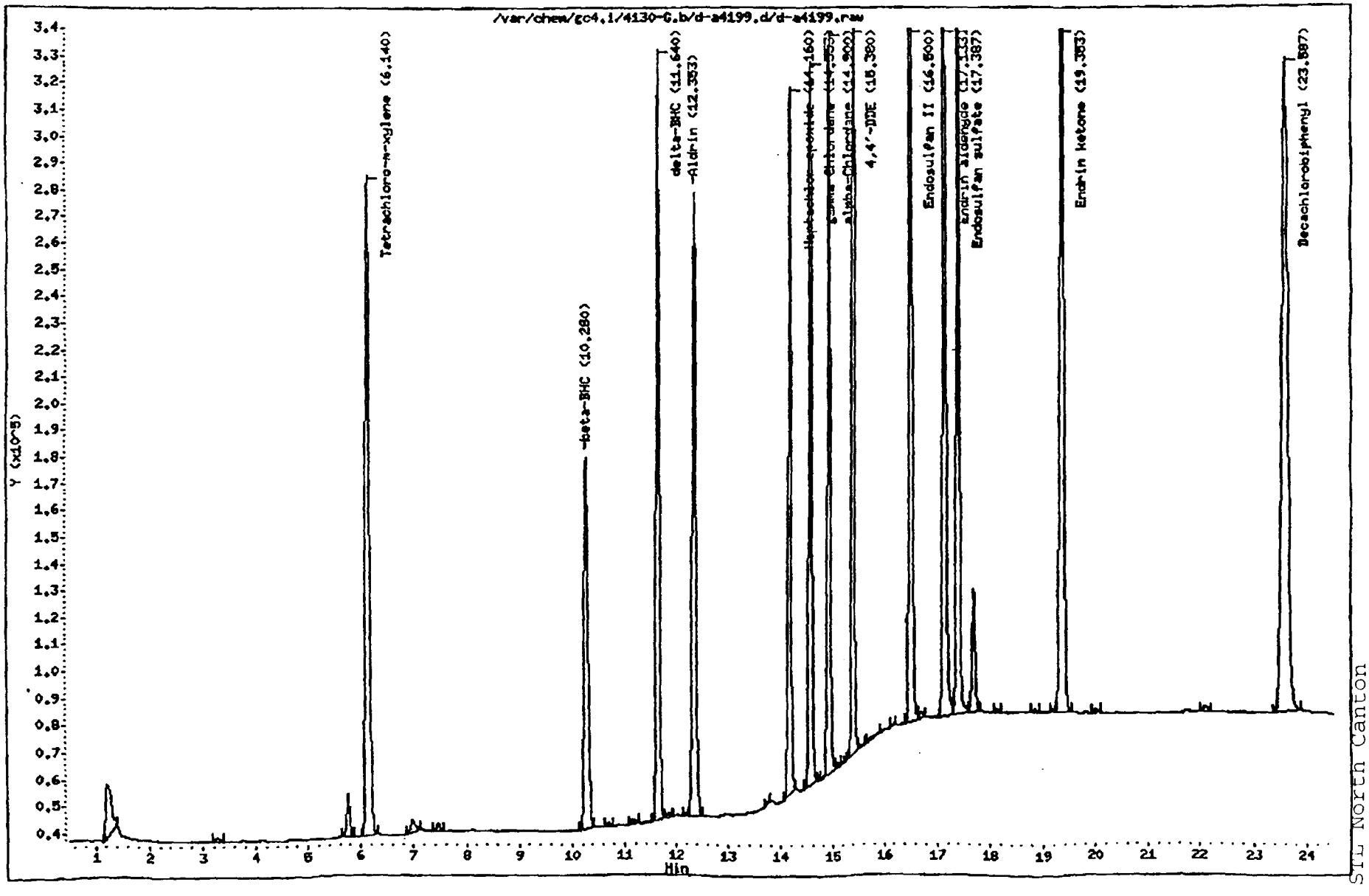


Data File: /var/chem/gc4.i/4130-G.b/d-a4199.d
Date : 14-JUL-2000 00:32
Client ID: INDBHHA
Sample Info: INDBHHA,4130-G.b,,9-INDB.sub,,1,3

Column phase: DB608

Instrument: gc4.i

Operator: 01891
Column diameter: 0.53



STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-a4201.d
Lab Smp Id: PEMHB Client Smp ID: PEMHB
Inj Date : 14-JUL-2000 01:28
Operator : 01891 Inst ID: gc4.i
Smp Info : PEMHB,4130-G.b,,PEM.sub,,3,
Misc Info : 190-87-13
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4A.m
Meth Date : 14-Jul-2000 10:10 matkol Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-a4199.d
Als bottle: 1 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PEM.sub
Target Version: 3.40 Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.140	6.140	0.000	64175	0.01830	0.01830	80.00- 120.00	100.00(R)
5 alpha-BHC					CAS #: 319-84-6		
8.507	8.507	0.000	34145	0.00828	0.008281	80.00- 120.00	100.00
7 gamma-BHC(Lindane)					CAS #: 58-89-9		
9.967	9.969	-0.002	30259	0.00873	0.004727	80.00- 120.00	100.00
8 beta-BHC					CAS #: 319-85-7		
10.280	10.275	0.005	83412	0.00926	0.009258	80.00- 120.00	100.00
19 4,4'-DDE					CAS #: 72-55-9		
15.387	15.380	0.007	2576	0.000698	0.0006975	80.00- 120.00	2.02(M)
22 Endrin					CAS #: 72-20-8		
16.180	16.180	0.000	132731	0.04889	0.04888	80.00- 120.00	100.00
23 4,4'-DDD					CAS #: 72-54-8		
16.353	16.327	0.026	2089	0.000692	0.0006933	80.00- 120.00	20.41(M)
25 4,4'-DDT					CAS #: 50-29-3		
16.867	16.868	-0.001	275151	0.09467	0.09467	80.00- 120.00	100.00
26 Endrin aldehyde					CAS #: 7421-93-4		
17.133	17.132	0.001	5962	0.00280	0.002797	80.00- 120.00	28.06(M)

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ng)	TARGET RANGE	RATIO
28 Methoxychlor					CAS #: 72-43-5		
18.847	18.849	-0.002	278879	0.22512	0.2251	80.00- 120.00	100.00
29 Endrin ketone					CAS #: 53494-70-5		
19.353	19.352	0.001	4286	0.00206	0.002062	80.00- 120.00	22.17(M)
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
23.587	23.587	0.000	31725	0.01811	0.01811	80.00- 120.00	100.00(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

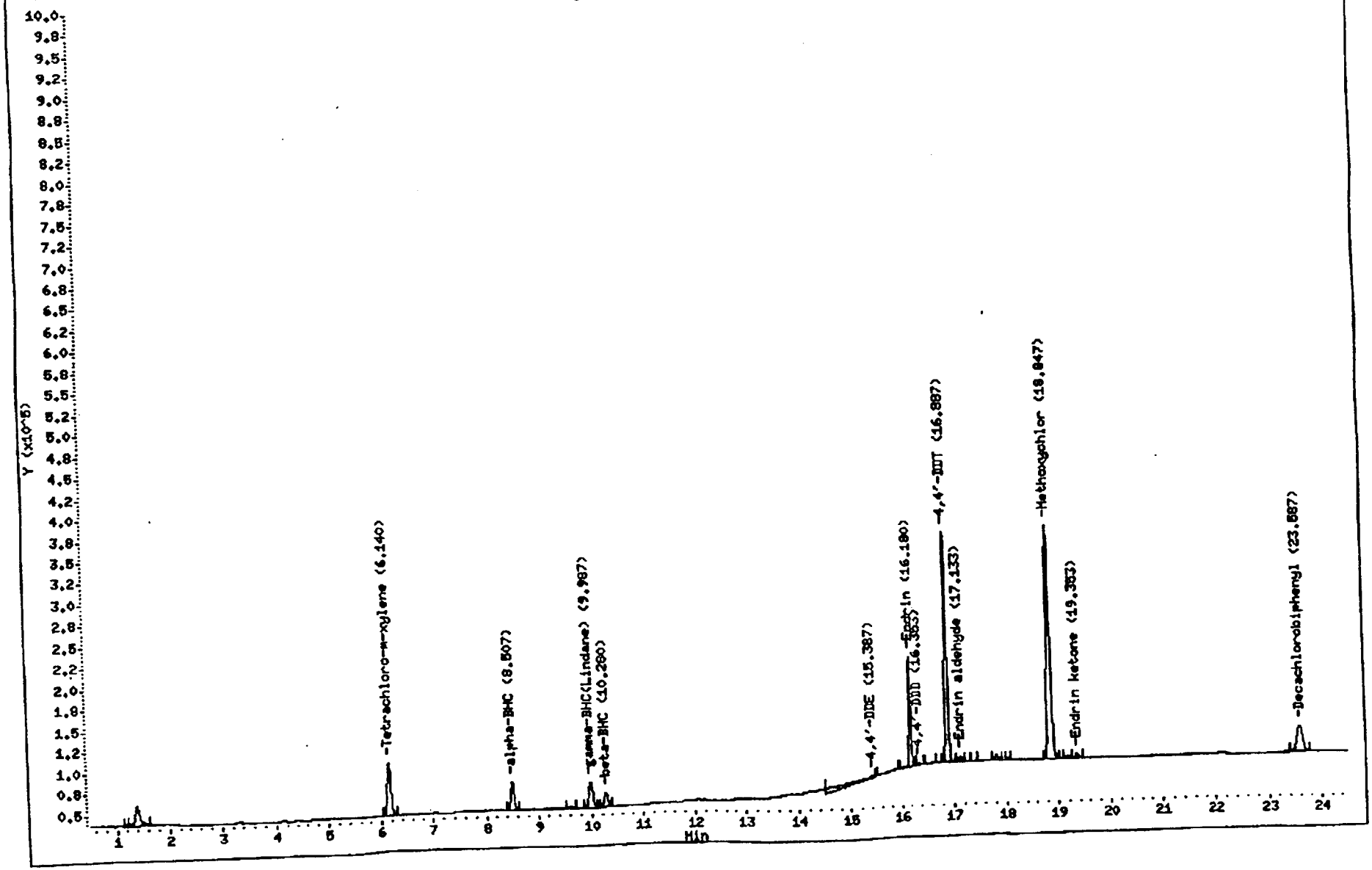
Data File: /var/chem/gc4.i/4130-G.b/d-a4201.d
Date : 14-JUL-2000 01:28
Client ID: PEHHB
Sample Info: PEHHB,4130-G.b,,PEH.sub,,3,

Column phase: DB608

Instrument: gc4.i

Operator: 01891
Column diameter: 0.53

/var/chem/gc4.i/4130-G.b/d-a4201.d/d-a4201.raw

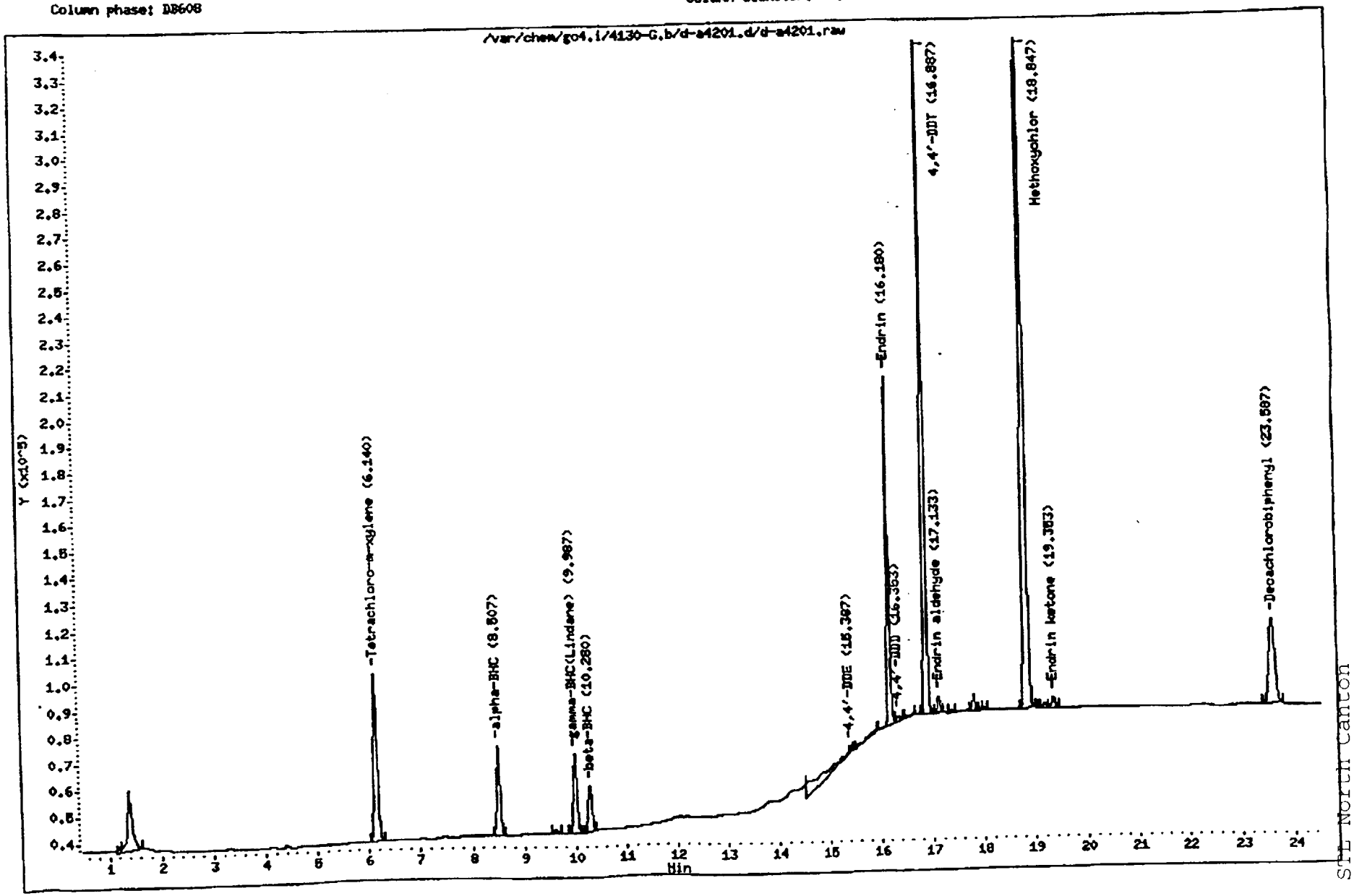


Data File: /var/chem/go4.i/4130-G.b/d-a4201.d
Date : 14-JUL-2000 01:28
Client ID: PEHHB
Sample Info: PEHHB,4130-G.b,,PEH,sub,,3,

Column phase: DB608

Instrument: go4.i

Operator: 01891
Column diameter: 0.53



STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-a4222.d
Lab Smp Id: INDAMHB Client Smp ID: INDAMHB
Inj Date : 14-JUL-2000 11:09
Operator : 01891 Inst ID: gc4.i
Smp Info : INDAMHB,4130-G.b,,INDA.sub,,2,2
Misc Info : 190-82-2
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4A.m
Meth Date : 14-Jul-2000 12:11 g Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-a4199.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDA.sub
Target Version: 3.40 Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.133	6.140	-0.007	68200	0.02000	0.01945	80.00- 120.00	100.00
5 alpha-BHC					CAS #: 319-84-6		
8.492	8.507	-0.014	82324	0.02000	0.01997	80.00- 120.00	100.00
7 gamma-BHC(Lindane)					CAS #: 58-89-9		
9.960	9.969	-0.009	70103	0.02000	0.02022	80.00- 120.00	100.00
9 Heptachlor					CAS #: 76-44-8		
11.233	11.243	-0.010	63988	0.02000	0.02003	80.00- 120.00	100.00
17 Endosulfan I					CAS #: 959-98-8		
14.953	14.960	-0.007	64490	0.02000	0.02012	80.00- 120.00	100.00
20 Dieldrin					CAS #: 60-57-1		
15.540	15.545	-0.005	149167	0.04000	0.04035	80.00- 120.00	100.00
22 Endrin					CAS #: 72-20-8		
16.173	16.180	-0.007	106992	0.04000	0.03940	80.00- 120.00	100.00
23 4,4'-DDD					CAS #: 72-54-8		
16.320	16.327	-0.007	120571	0.04000	0.04002	80.00- 120.00	100.00
25 4,4'-DDT					CAS #: 50-29-3		
16.880	16.888	-0.008	116488	0.04000	0.04008	80.00- 120.00	100.00

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
28 Methoxychlor					CAS #: 72-43-5		
18.840	18.849	-0.009	249590	0.20000	0.2015	80.00- 120.00	100.00
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
23.573	23.587	-0.014	70434	0.04000	0.04020	80.00- 120.00	100.00

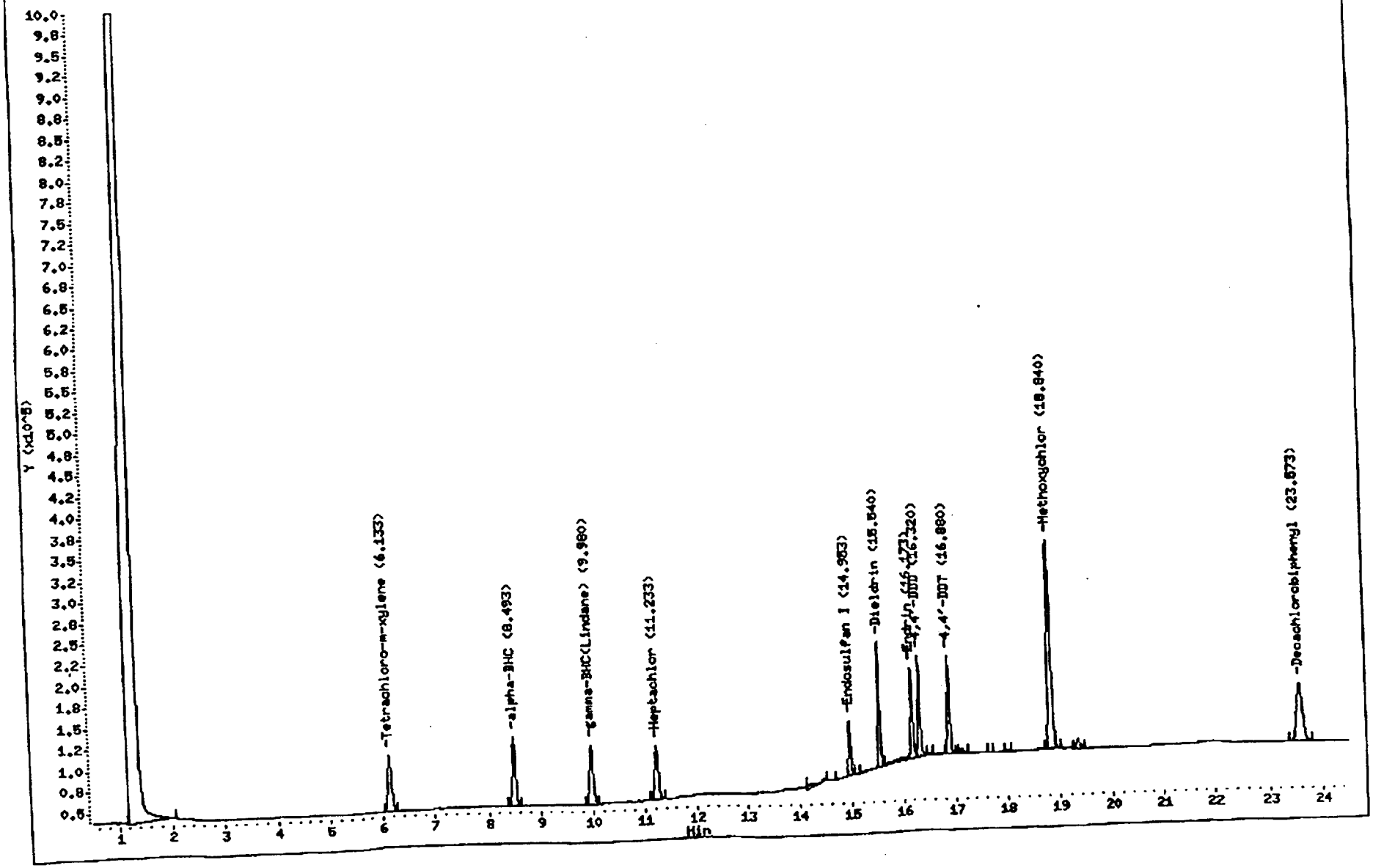
Data File: /var/chem/gc4.i/4130-G.b/d-a4222.d
Date : 14-JUL-2000 11:09
Client ID: INDAHHB
Sample Info: INDAHHB,4130-G.b,,INDA.sub,,2,2

Instrument: gc4.i

Operator: 01891
Column diameter: 0.53

Column phase: DB608

/var/chem/gc4.i/4130-G.b/d-a4222.d/d-a4222.raw

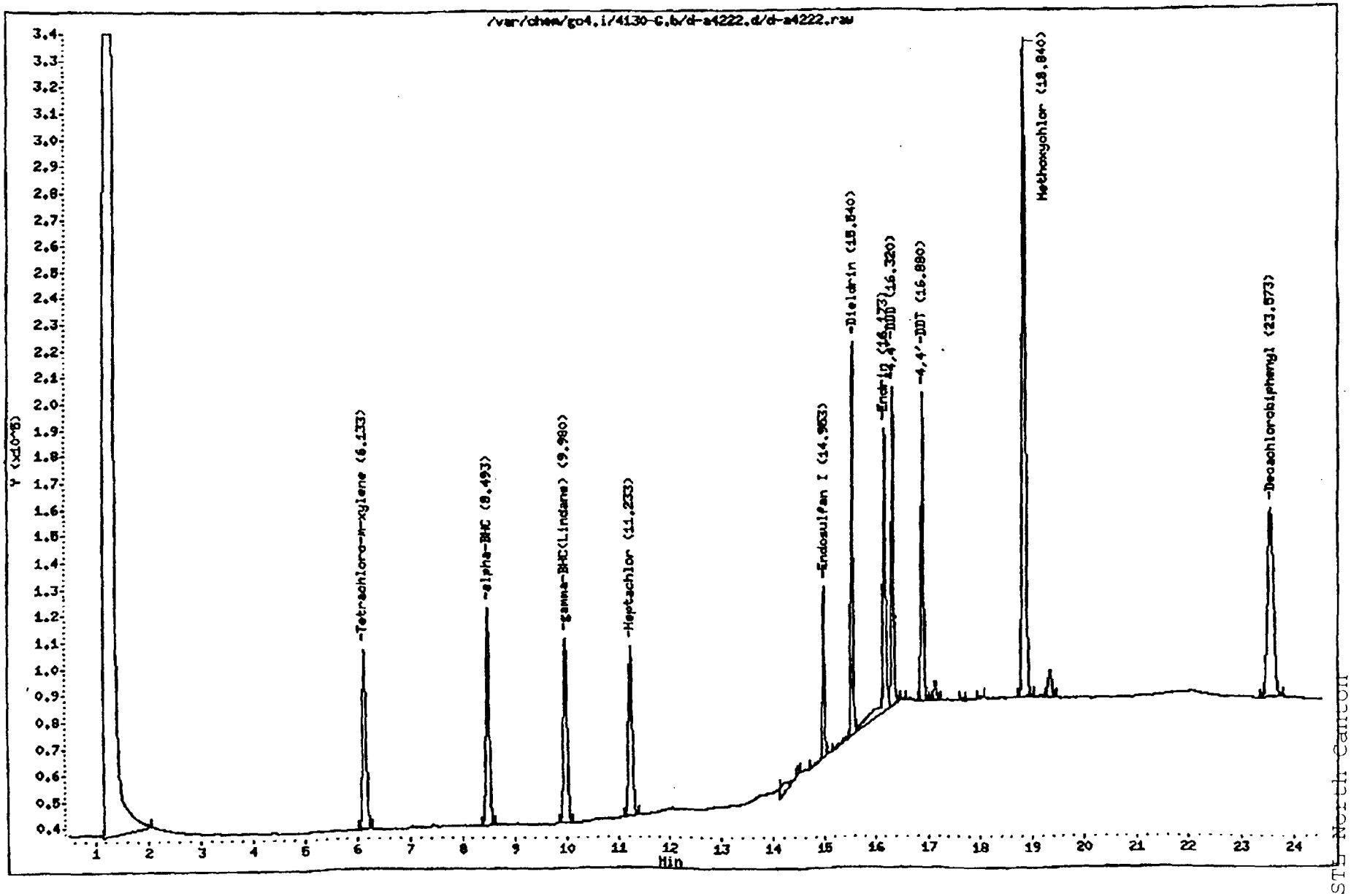


Data File: /var/chem/go4.i/4130-G.b/d-a4222.d
Date : 14-JUL-2000 11:09
Client ID: INDA##B
Sample Info: INDA##B,4130-G.b,,INDA.sub,,2,2

Column phase: DB608

Instrument: go4.i

Operator: 01891
Column diameter: 0.53



STL North Canton

STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-a4223.d
Lab Smp Id: INDBMHB Client Smp ID: INDBMHB
Inj Date : 14-JUL-2000 11:37
Operator : 01891 Inst ID: gc4.i
Smp Info : INDBMHB,4130-G.b,,INDB.sub,,2,2
Misc Info : 190-82-5
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4A.m
Meth Date : 14-Jul-2000 12:11 g Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-a4199.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDB.sub
Target Version: 3.40 Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.133	6.140	-0.007	66122	0.02000	0.01886	80.00- 120.00	100.00
8 beta-BHC					CAS #: 319-85-7		
10.267	10.275	-0.008	182830	0.02000	0.02029	80.00- 120.00	100.00
11 delta-BHC					CAS #: 319-86-8		
11.627	11.637	-0.010	66457	0.02000	0.02101	80.00- 120.00	100.00
12 Aldrin					CAS #: 309-00-2		
12.347	12.352	-0.005	52844	0.02000	0.02035	80.00- 120.00	100.00
13 Heptachlor epoxide					CAS #: 1024-57-3		
14.153	14.160	-0.007	60293	0.02000	0.01986	80.00- 120.00	100.00
14 gamma-Chlordane					CAS #: 5103-74-2		
14.540	14.551	-0.011	64677	0.02000	0.02046	80.00- 120.00	100.00
16 alpha-Chlordane					CAS #: 5103-71-9		
14.893	14.900	-0.007	67827	0.02000	0.02032	80.00- 120.00	100.00
19 4,4'-DDE					CAS #: 72-55-9		
15.373	15.380	-0.007	148687	0.04000	0.04026	80.00- 120.00	100.00
24 Endosulfan II					CAS #: 33213-65-9		
16.493	16.500	-0.007	122212	0.04000	0.04027	80.00- 120.00	100.00

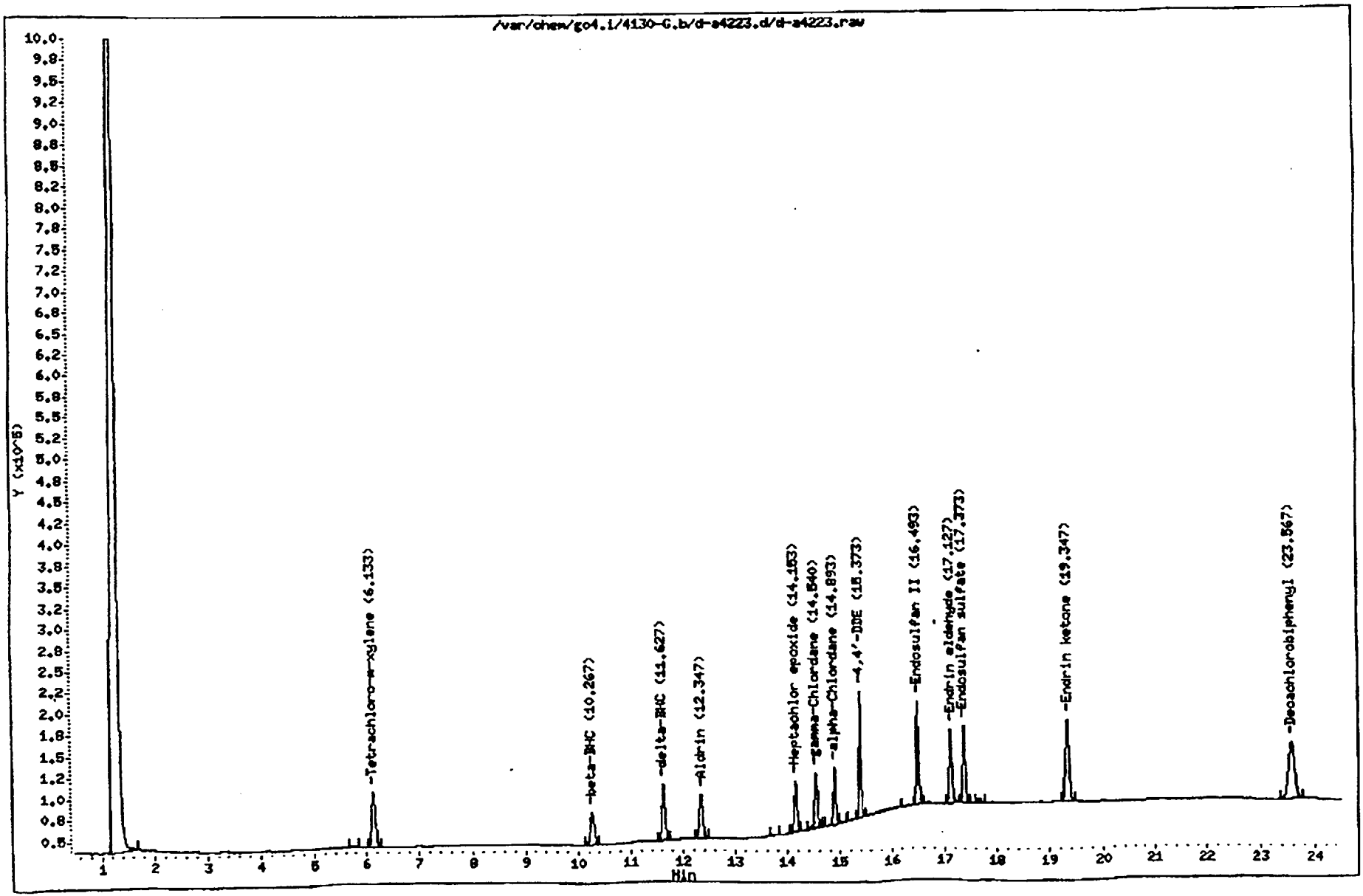
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
26 Endrin aldehyde					CAS #: 7421-93-4		
17.127	17.132	-0.005	87283	0.04000	0.04095	80.00- 120.00	100.00
27 Endosulfan sulfate					CAS #: 1031-07-8		
17.373	17.388	-0.015	91120	0.04000	0.04584	80.00- 120.00	100.00
29 Endrin ketone					CAS #: 53494-70-5		
19.347	19.352	-0.005	95095	0.04000	0.04576	80.00- 120.00	100.00
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
23.567	23.587	-0.020	66421	0.04000	0.03795	80.00- 120.00	100.00

Data File: /var/chem/gc4.i/4130-G.b/d-a4223.d
Date : 14-JUL-2000 11:37
Client ID: INDBMHB
Sample Info: INDBMHB,4130-G.b,,INDB.sub,,2,2

Column phase: DB608

Instrument: gc4.i

Operator: 01891
Column diameter: 0.53

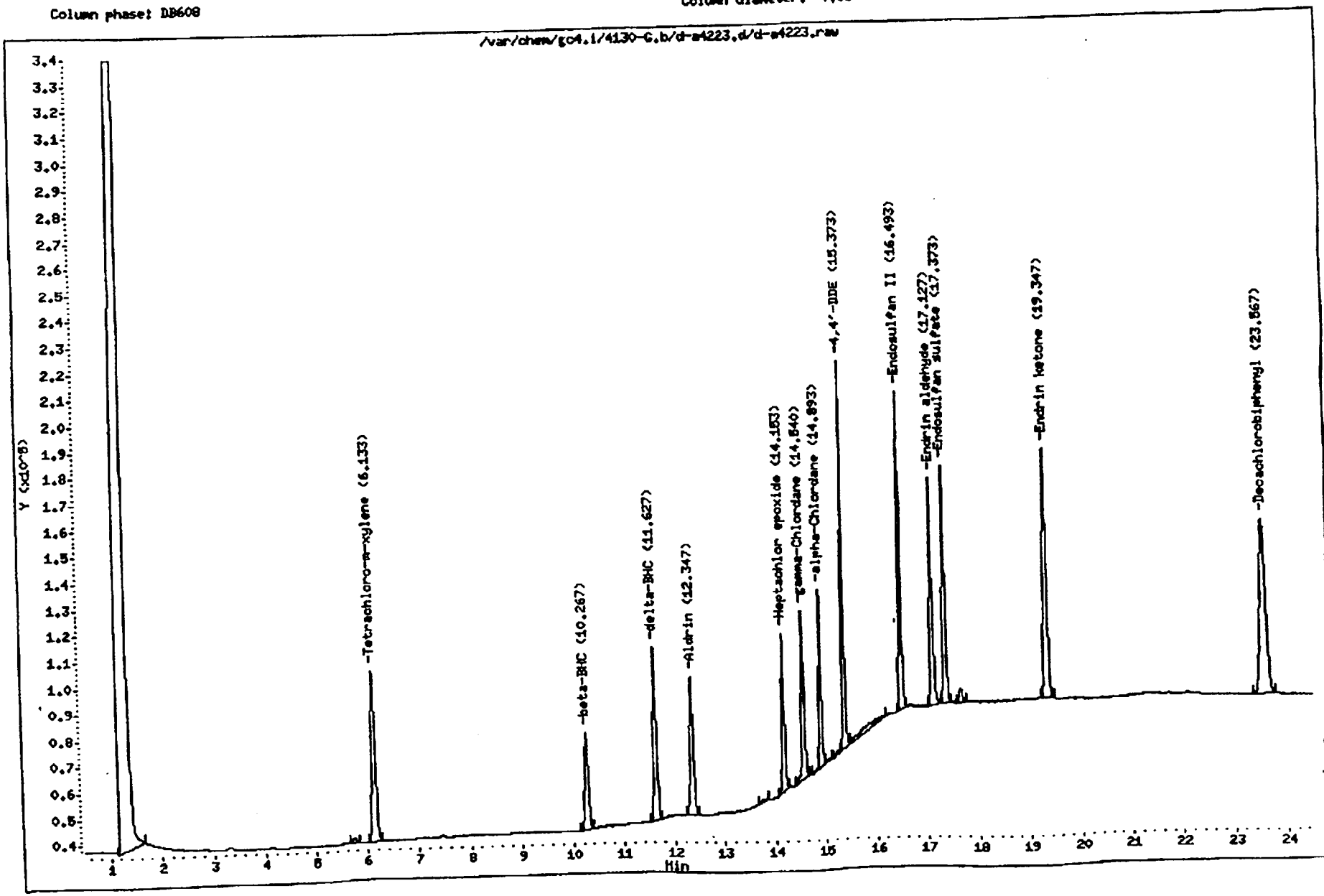


Data File: /var/chem/gc4.i/4130-G.b/d-a4223.d
Date : 14-JUL-2000 11:37
Client ID: INDBHHB
Sample Info: INDBHHB,4130-G.b,,INDB.sub,,2,2

Column phase: DB608

Instrument: gc4.i

Operator: 01891
Column diameter: 0.53



STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-b4185.d
Lab Smp Id: RESCHA Client Smp ID: RESCHA
Inj Date : 13-JUL-2000 18:04
Operator : 01891 Inst ID: gc4.i
Smp Info : RESCHA,4130-G.b,,RESC.sub,,3,
Misc Info : 190-75-4
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4B.m
Meth Date : 14-Jul-2000 10:49 matkol Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-b4199.d
Als bottle: 1 QC Sample: RESOLUTION
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RESC.sub
Target Version: 3.40 Sample Matrix: WATER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	10000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.133	6.133	0.000	52644	0.02079	0.02078	80.00- 120.00	100.00
16 gamma-Chlordane					CAS #: 5103-74-2		
14.973	14.972	0.001	36741	0.01093	0.01093	80.00- 120.00	31.36(M)
15 Endosulfan I					CAS #: 959-98-8		
14.893	14.900	-0.007	32988	0.01005	0.01006	80.00- 120.00	33.08(M)
18 4,4'-DDE					CAS #: 72-55-9		
15.240	15.243	-0.003	73583	0.02020	0.02020	80.00- 120.00	100.00
19 Dieldrin					CAS #: 60-57-1		
15.560	15.565	-0.005	74703	0.01959	0.01959	80.00- 120.00	100.00

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
27 Endosulfan sulfate					CAS #: 1031-07-8		
18.147	18.148	-0.001	38588	0.02029	0.02029	80.00- 120.00	100.00
28 Methoxychlor					CAS #: 72-43-5		
18.027	18.035	-0.008	136144	0.10000	0.1000	80.00- 120.00	100.00
29 Endrin ketone					CAS #: 53494-70-5		
19.227	19.228	-0.001	40366	0.02015	0.02015	80.00- 120.00	100.00
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
21.733	21.735	-0.002	37715	0.01925	0.01925	80.00- 120.00	100.00

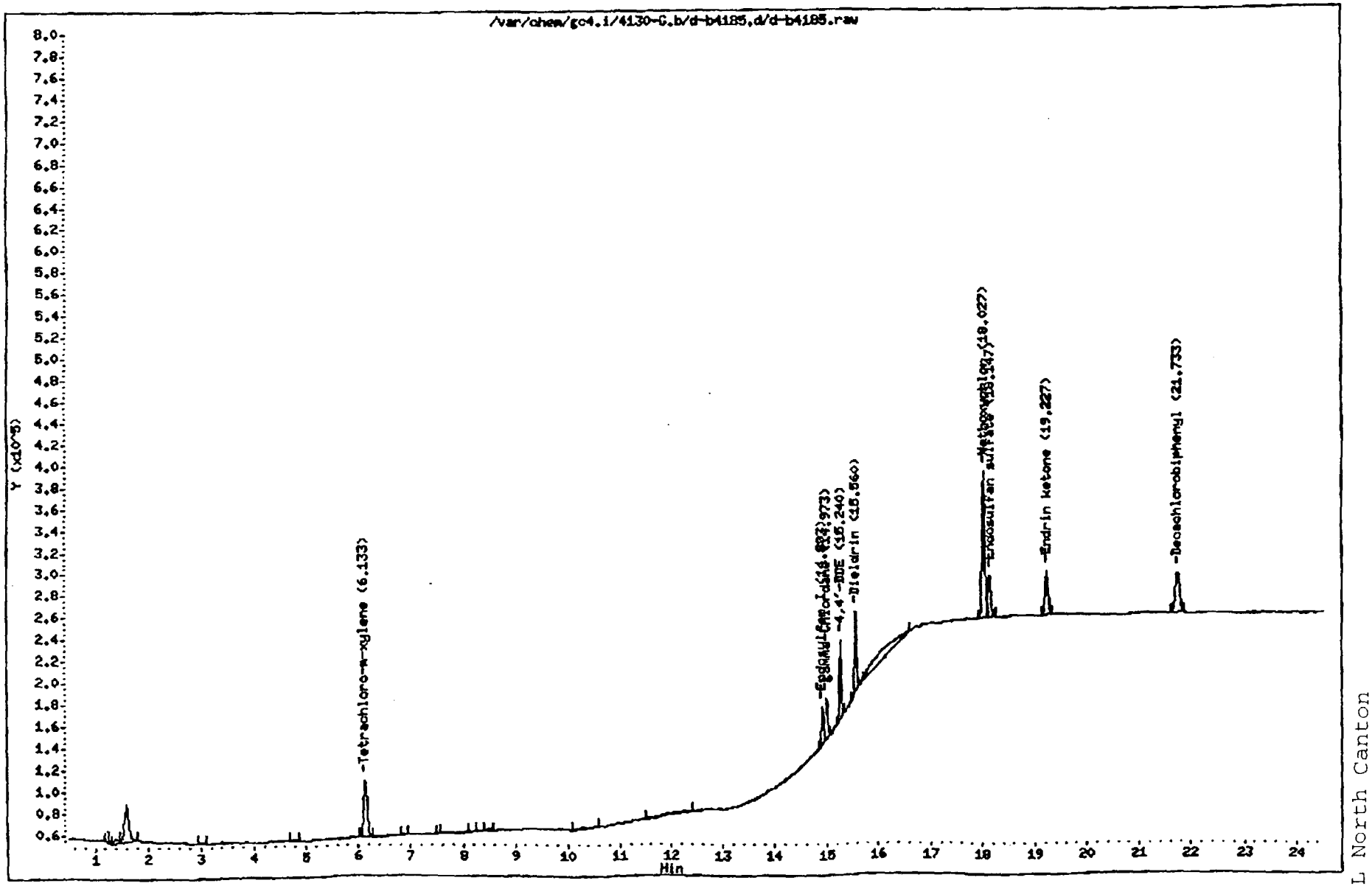
QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/gc4.i/4130-G.b/d-b4185.d
Date : 13-JUL-2000 18:04
Client ID: RESCHA
Sample Info: RESCHA,4130-G.b,,RESC,sub,,3,
Volume Injected (uL): 1.0
Column phase: DB1701

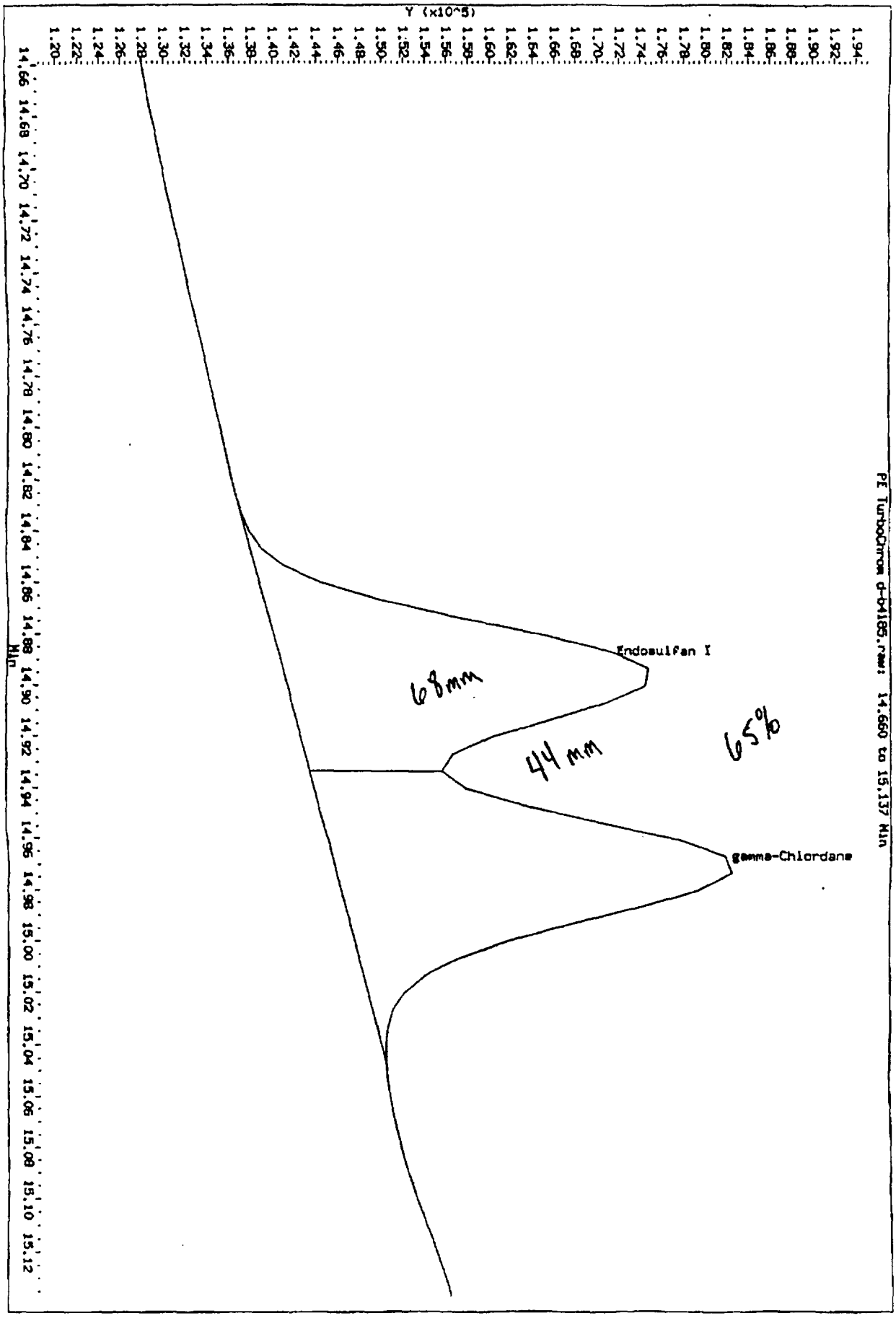
Instrument: gc4.i

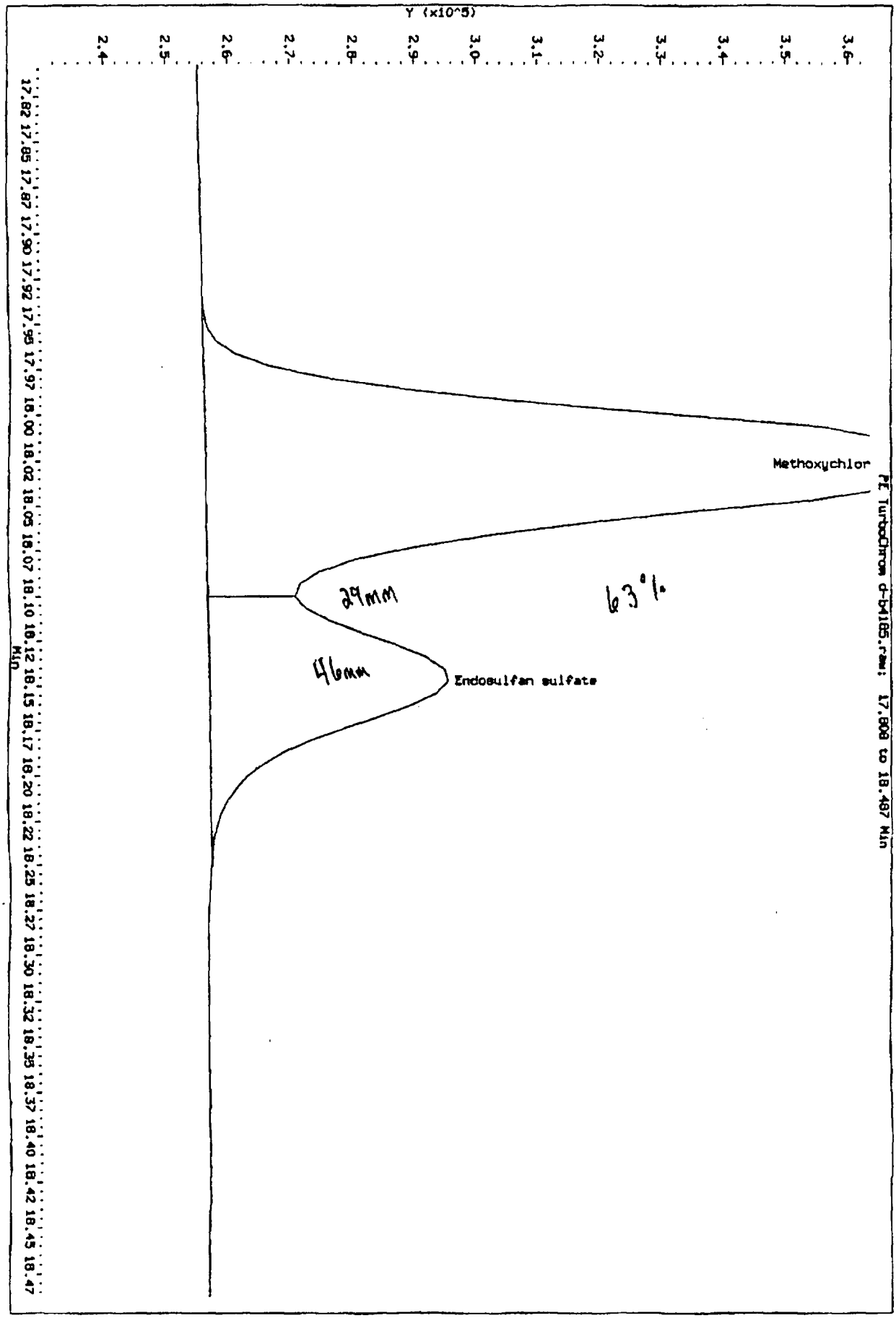
Operator: 01891
Column diameter: 0.53



Data File: /var/chem/gc4.i/41130-G.b/d-b4185.d/d-b4185.raw
Injection Date: 13-JUL-2000 18:04
Instrument: gc4.i
Client Sample ID: RESCHK

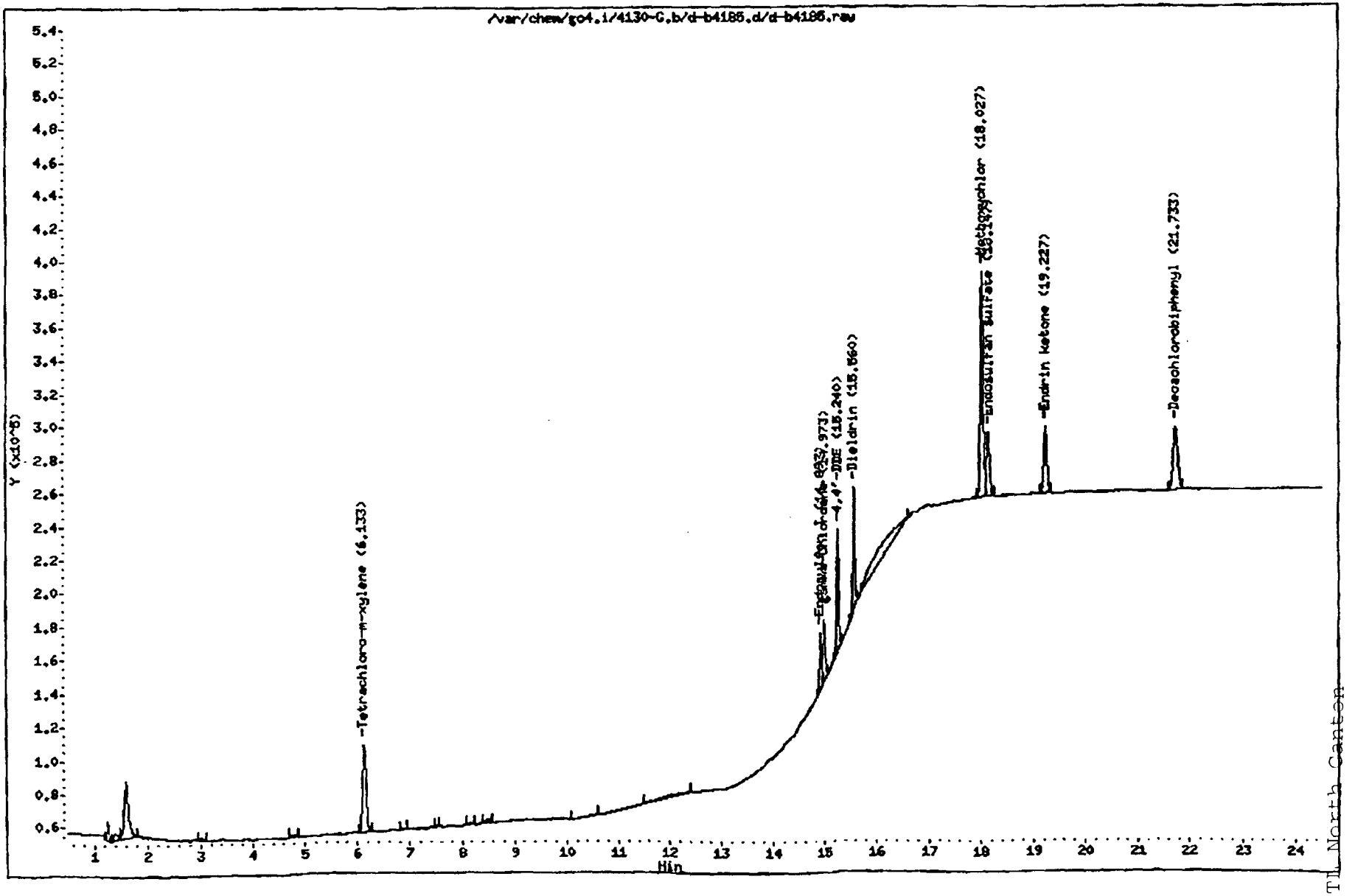
PE TurboChrom d-b4185.raw: 14.660 to 15.137 Min




Data File: /var/chem/gc4.i/4130-G.b/d-b4185.d/d-b4185.raw
Injection Date: 13-JUL-2000 18:04
Instrument: gc4.i
Client Sample ID: RESCHA
PE TurboChrom d-b4185.raw: 17.808 to 18.487 Min
Y (x10^5)
3.6
3.5
3.4
3.3
3.2
3.1
3.0
2.9
2.8
2.7
2.6
2.5
2.4
Methoxychlor
Endosulfan sulfate
29mm
46mm
63%
17.82 17.85 17.87 17.90 17.92 17.95 17.97 18.00 18.02 18.05 18.07 18.10 18.12 18.15 18.17 18.20 18.22 18.25 18.27 18.30 18.32 18.35 18.37 18.40 18.42 18.45 18.47
Min

Data File: /var/chem/gc4.i/4130-G.b/d-b4186.d
Date : 13-JUL-2000 18:04
Client ID: RESCHA
Sample Info: RESCHA,4130-G.b,,RESC.sub,,3,
Volume Injected (uL): 1.0
Column phase: DB1701

Instrument: gc4.i
Operator: 01891
Column diameter: 0.53



STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-b4186.d
Lab Smp Id: PEMHA Client Smp ID: PEMHA
Inj Date : 13-JUL-2000 18:32
Operator : 01891 Inst ID: gc4.i
Smp Info : PEMHA,4130-G.b,,PEM.sub,,3,
Misc Info : 190-87-13
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4B.m
Meth Date : 14-Jul-2000 10:49 matkol Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-b4199.d
Als bottle: 1 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PEM.sub
Target Version: 3.40 Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.133	6.133	0.000	48419	0.01912	0.01912	80.00- 120.00	100.00(R)
5 alpha-BHC					CAS #: 319-84-6		
9.060	9.065	-0.005	27386	0.00842	0.008420	80.00- 120.00	100.00
6 gamma-BHC(Lindane)					CAS #: 58-89-9		
10.560	10.557	0.003	26423	0.00864	0.008642	80.00- 120.00	100.00
11 beta-BHC					CAS #: 319-85-7		
12.953	12.952	0.001	59427	0.00923	0.009233	80.00- 120.00	100.00
18 4,4'-DDE					CAS #: 72-55-9		
15.300	15.243	0.057	0			80.00- 120.00	0.00(M)
22 Endrin					CAS #: 72-20-8		
15.907	15.908	-0.001	154738	0.05195	0.05195	80.00- 120.00	100.00
23 4,4'-DDD					CAS #: 72-54-8		
16.553	16.532	0.021	1767	0.000634	0.0006243	80.00- 120.00	30.81(M)
25 4,4'-DDT					CAS #: 50-29-3		
16.853	16.852	0.001	267077	0.09393	0.09393	80.00- 120.00	100.00
26 Endrin aldehyde					CAS #: 7421-93-4		
17.487	17.480	0.007	2316	0.00166	0.001658	80.00- 120.00	24.02(M)

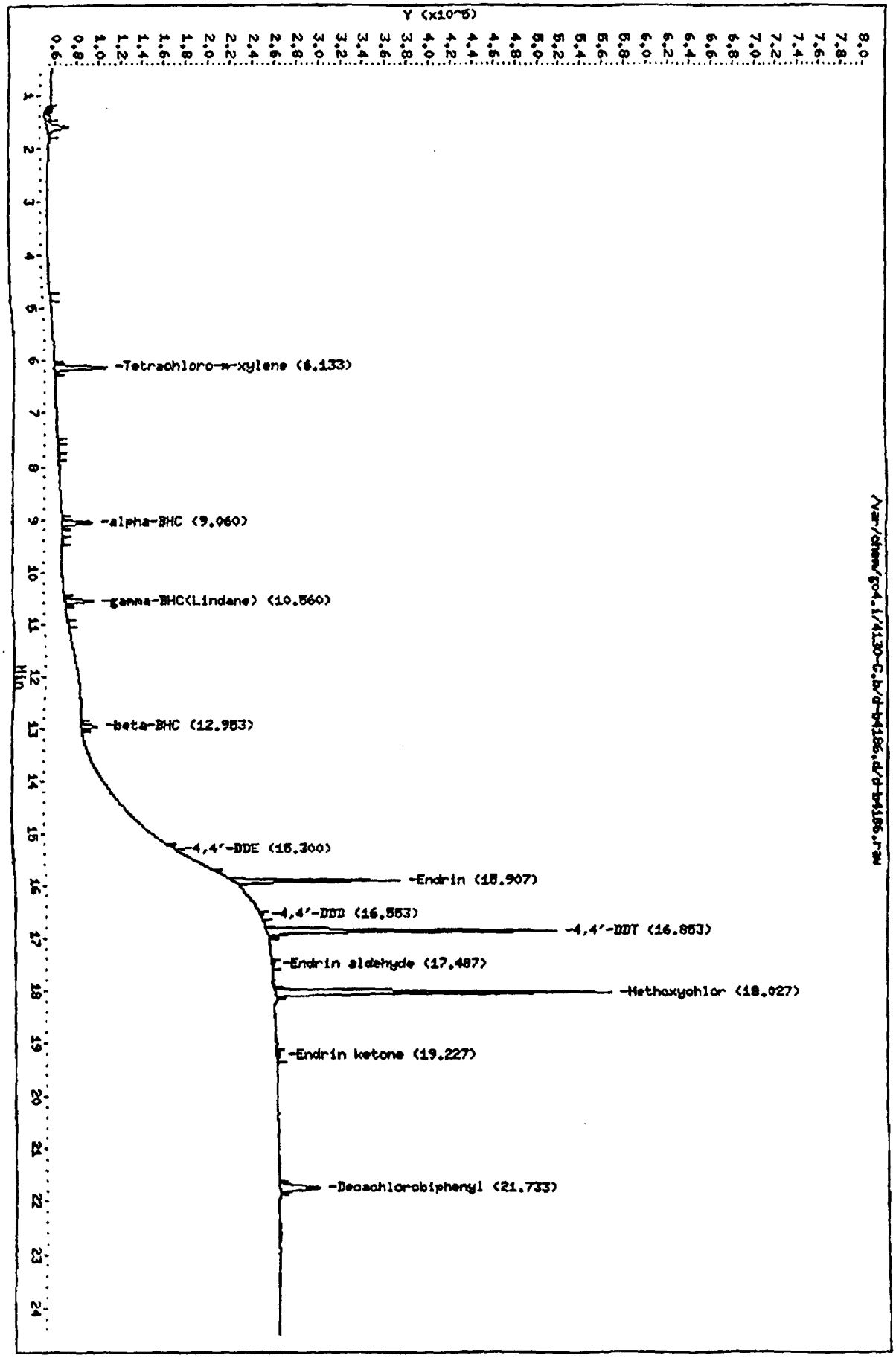
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ng)	TARGET RANGE	RATIO
28 Methoxychlor					CAS #: 72-43-5		
18.027	18.035	-0.008	310434	0.22802	0.2280	80.00- 120.00	100.00
29 Endrin ketone					CAS #: 53494-70-5		
19.227	19.228	-0.001	3415	0.00171	0.001705	80.00- 120.00	22.14(M)
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
21.733	21.735	-0.002	36611	0.01869	0.01869	80.00- 120.00	100.00(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: /var/chem/gc4.i/4130-G.b/d-b4186.d
Date : 13-JUL-2000 18:32
Client ID: PEMW
Sample Info: PEMW,4130-G.b,,PEM.sub,,3,
Column phase: DB1701

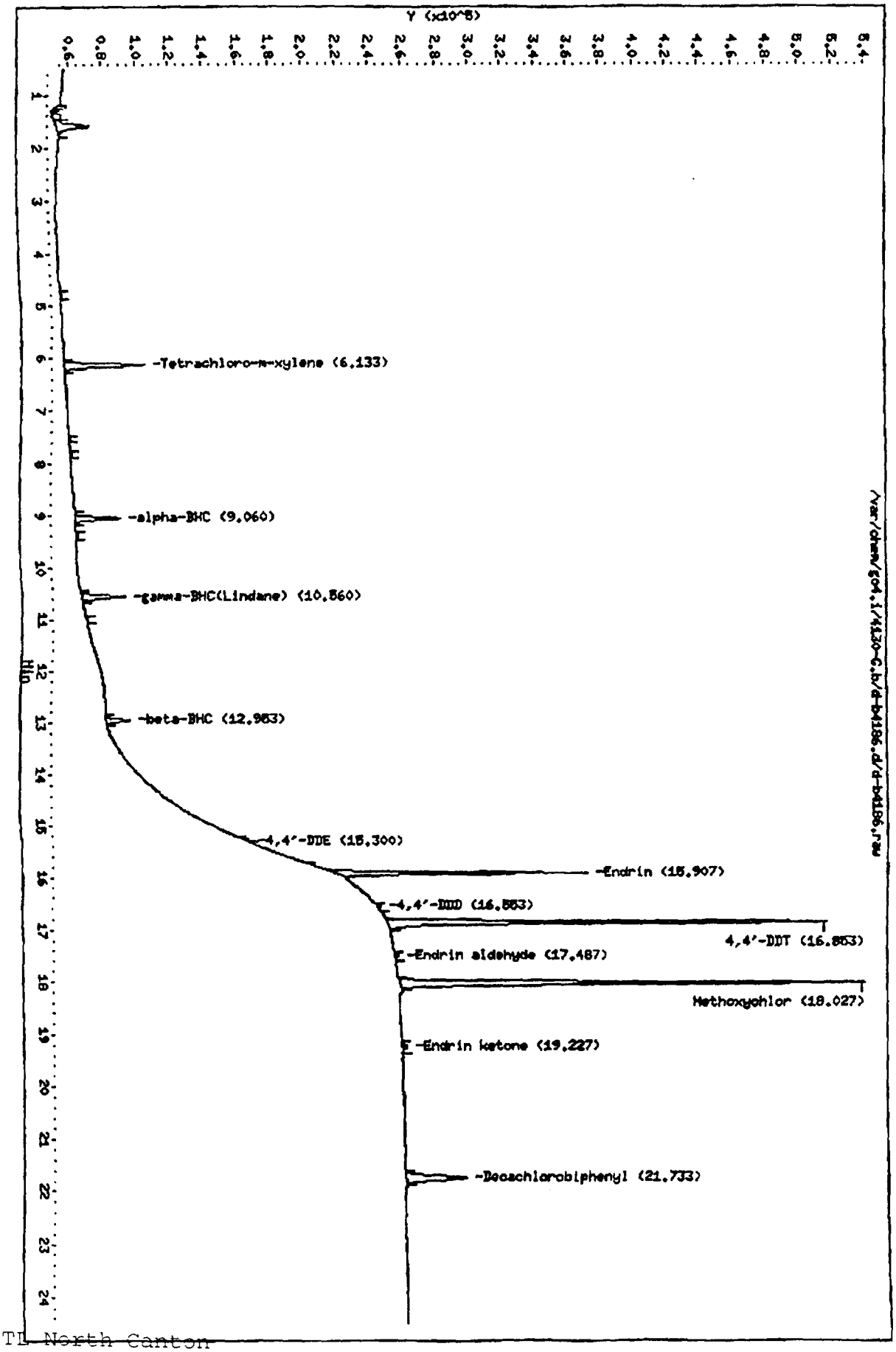
Instrument: gc4.i
Operator: 04894
Column diameter: 0.53



Page 3

Data File: /var/chem/gc4.i/4130-G.b/d-b4186.d
Date : 13-JUL-2000 18:32
Client ID: PEHHA
Sample Info: PEHHA,4130-G.b,PEH,sub,3,
Column phase: DB1701

Instrument: gc4.i
Operator: 01891
Column diameter: 0.53



Page 1

STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-b4187.d
Lab Smp Id: AR1660HA Client Smp ID: AR1660HA
Inj Date : 13-JUL-2000 18:59
Operator : 01891 Inst ID: gc4.i
Smp Info : AR1660HA,4130-G.b,,1-AR1660.sub,,1,2
Misc Info : 190-80-14
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4B.m
Meth Date : 14-Jul-2000 10:49 matkol Quant Type: ESTD
Cal Date : 13-JUL-2000 23:37 Cal File: d-b4197.raw
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AR1660.sub
Target Version: 3.40 Sample Matrix: None

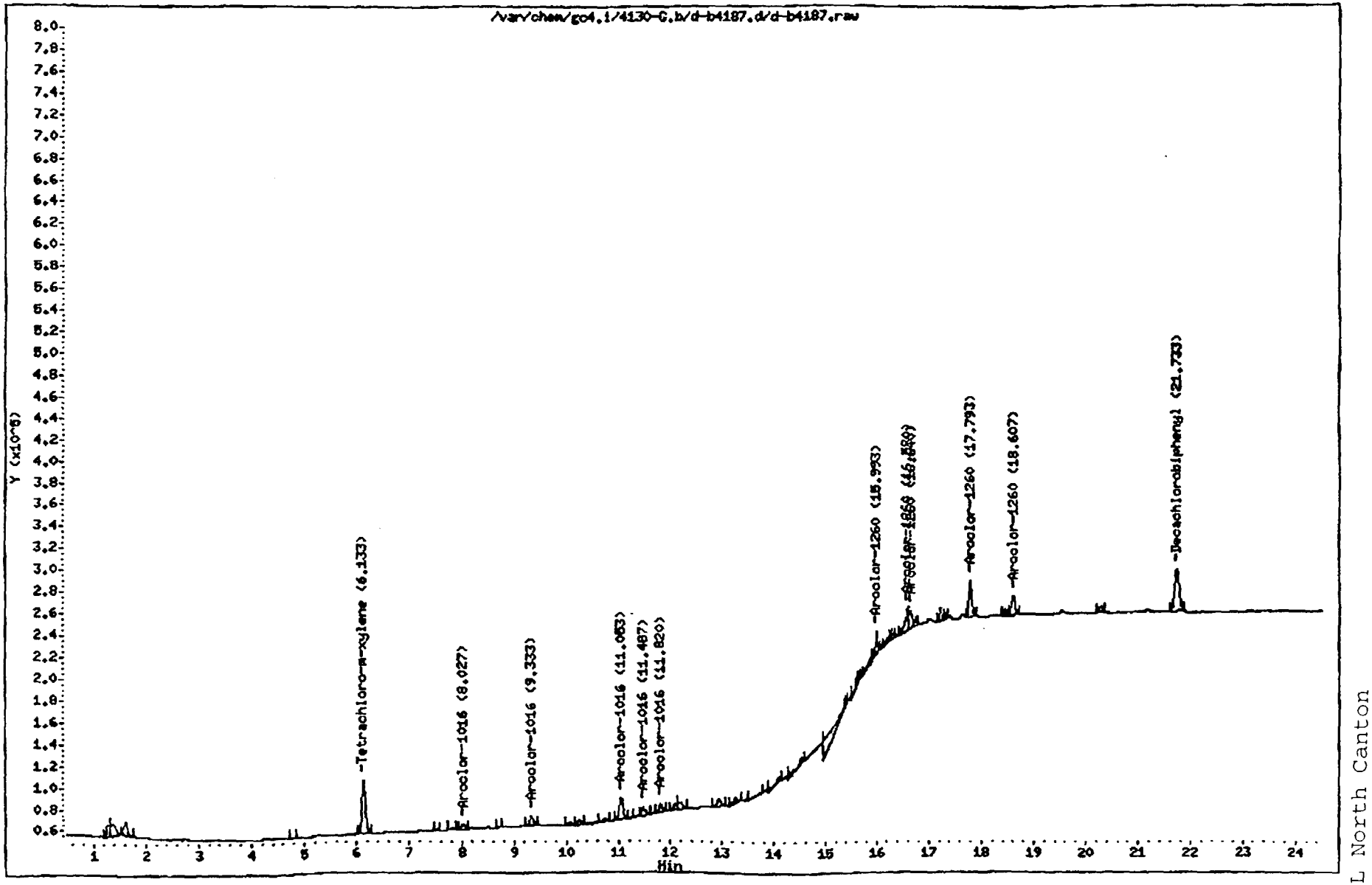
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
# 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.133	6.133	0.000	50527	0.02000	0.02000	80.00- 120.00	100.00
3 Aroclor-1016					CAS #: 12674-11-2		
8.027	8.027	0.000	5248	0.10000	0.1000	80.00- 120.00	100.00
9.333	9.333	0.000	9707	0.10000	0.1000	161.69- 201.69	184.97
11.053	11.053	0.000	19993	0.10000	0.1000	52.17- 92.17	380.96
11.487	11.487	0.000	7678	0.10000	0.1000	44.13- 84.13	146.30
11.820	11.820	0.000	7331	0.10000	0.1000	42.97- 82.97	139.69
Average of Peak Amounts =					0.1		
21 Aroclor-1260					CAS #: 11096-82-5		
15.993	15.993	0.000	21631	0.10000	0.1000	80.00- 120.00	100.00
16.580	16.580	0.000	19079	0.10000	0.1000	48.95- 88.95	88.20
16.640	16.640	0.000	17181	0.10000	0.1000	47.62- 87.62	79.43
17.793	17.793	0.000	32992	0.10000	0.1000	147.77- 187.77	152.52
18.607	18.607	0.000	17151	0.10000	0.1000	81.17- 121.17	79.29
Average of Peak Amounts =					0.1		
# 30 Decachlorobiphenyl					CAS #: 2051-24-3		
21.733	21.736	-0.002	38370	0.04000	0.04000	80.00- 120.00	100.00

Data File: /var/chem/gc4.i/4130-G.b/d-b4187.d
Date : 13-JUL-2000 18:59
Client ID: AR1660HA
Sample Info: AR1660HA,4130-G.b,,1-AR1660,sub,,1,2

Column phase: DB1701

Instrument: gc4.i

Operator: 01891
Column diameter: 0.53

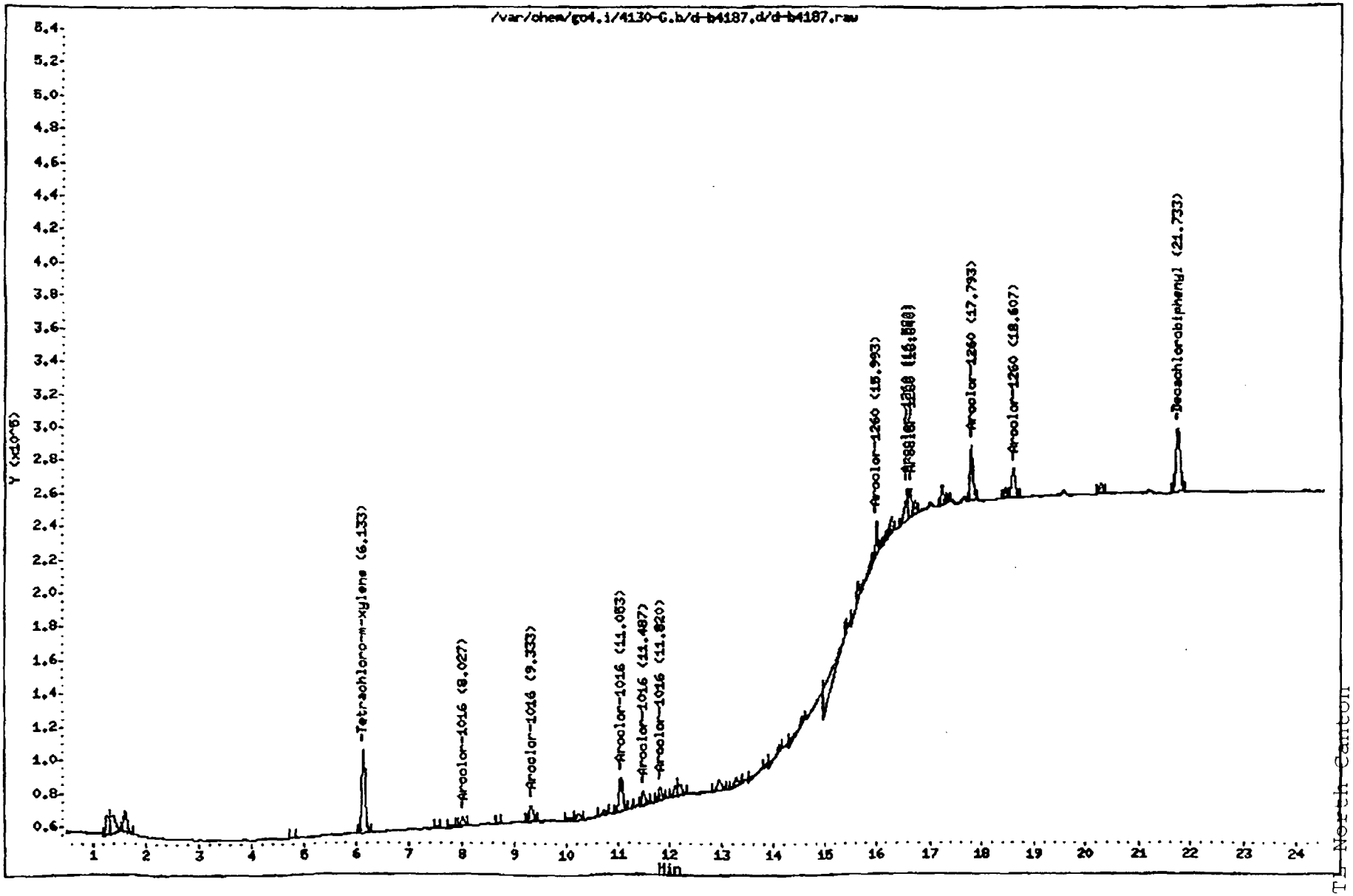


Data File: /var/chem/go4.i/4130-G.b/d-b4187.d
Date : 13-JUL-2000 18:59
Client ID: AR1660HA
Sample Info: AR1660HA,4130-G.b,,1-AR1660.sub,,1,2

Column phase: DB1701

Instrument: go4.i

Operator: 01891
Column diameter: 0.53



Data File: /var/chem/go4.i/4130-C.b/d-b4187.d

Date : 13-JUL-2000 18:59

Client ID: AR1660HA

Sample Info: AR1660HA,4130-C.b,,1-AR1660.sub,,1,2

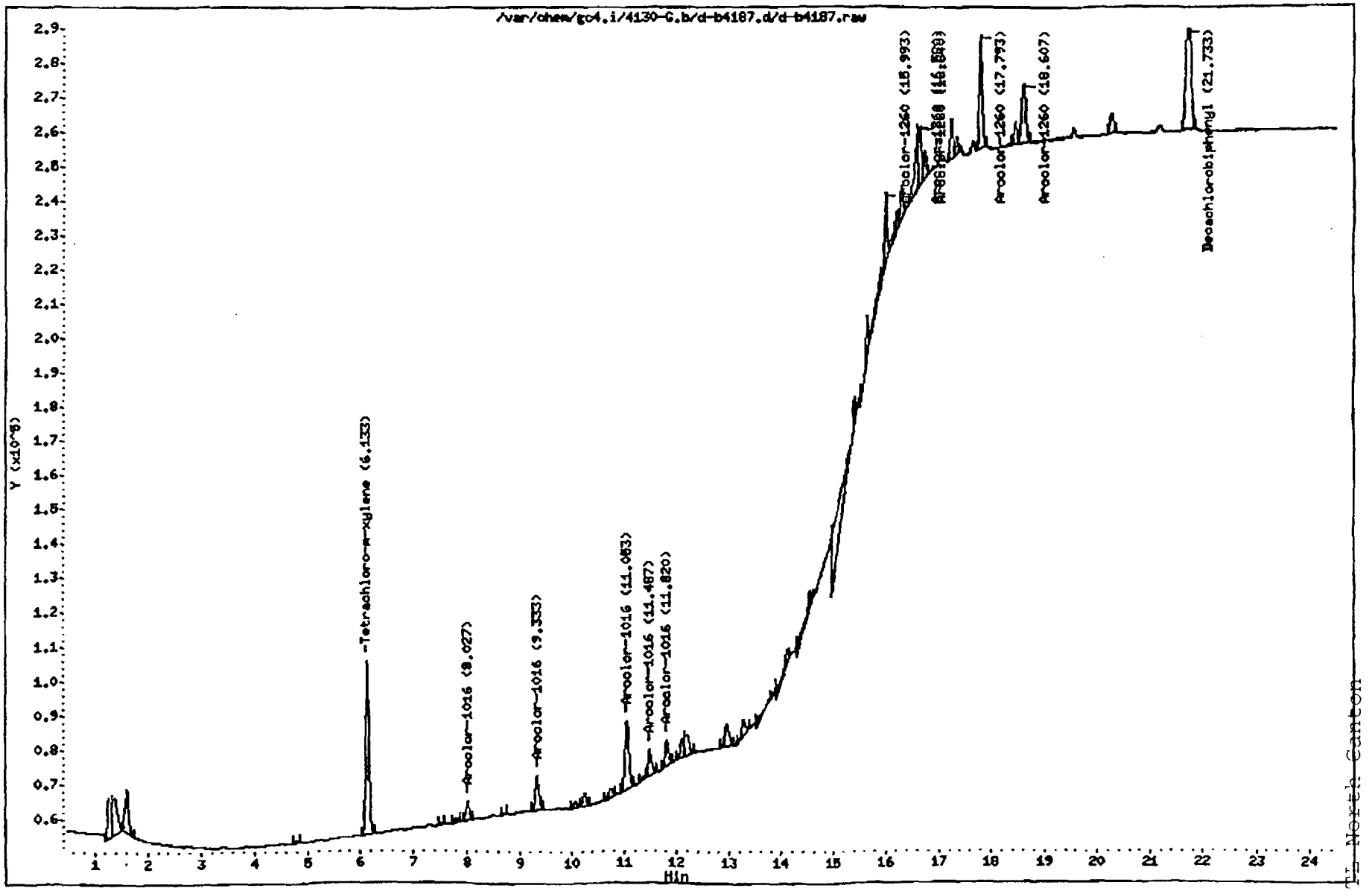
Column phase: DB1701

Page 1

Instrument: go4.i

Operator: 01891

Column diameter: 0.53



STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-b4188.d
Lab Smp Id: AR1221HA Client Smp ID: AR1221HA
Inj Date : 13-JUL-2000 19:27
Operator : 01891 Inst ID: gc4.i
Smp Info : AR1221HA,4130-G.b,,2-AR1221.sub,,1,2
Misc Info : 190-81-1
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4B.m
Meth Date : 14-Jul-2000 10:49 matkol Quant Type: ESTD
Cal Date : 13-JUL-2000 23:37 Cal File: d-b4197.raw
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 2-AR1221.sub
Target Version: 3.40 Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.133	6.133	0.000	51685	0.02000	0.02000	80.00- 120.00	100.00
2 Aroclor-1221					CAS #: 11104-28-2		
7.293	7.293	0.000	4873	0.20000	0.2000	80.00- 120.00	100.00
7.813	7.813	0.000	3634	0.20000	0.2000	[illegible]	[illegible]
8.027	8.027	0.000	13522	0.20000	0.2000	230.73- 270.73	277.49
Average of Peak Amounts =					0.2		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
21.733	21.735	-0.002	38943	0.04000	0.04000	80.00- 120.00	100.00

Data File: /var/chem/gc4.i/4130-G.b/d-b4188.d

Date : 13-JUL-2000 19:27

Client ID: AR1221HA

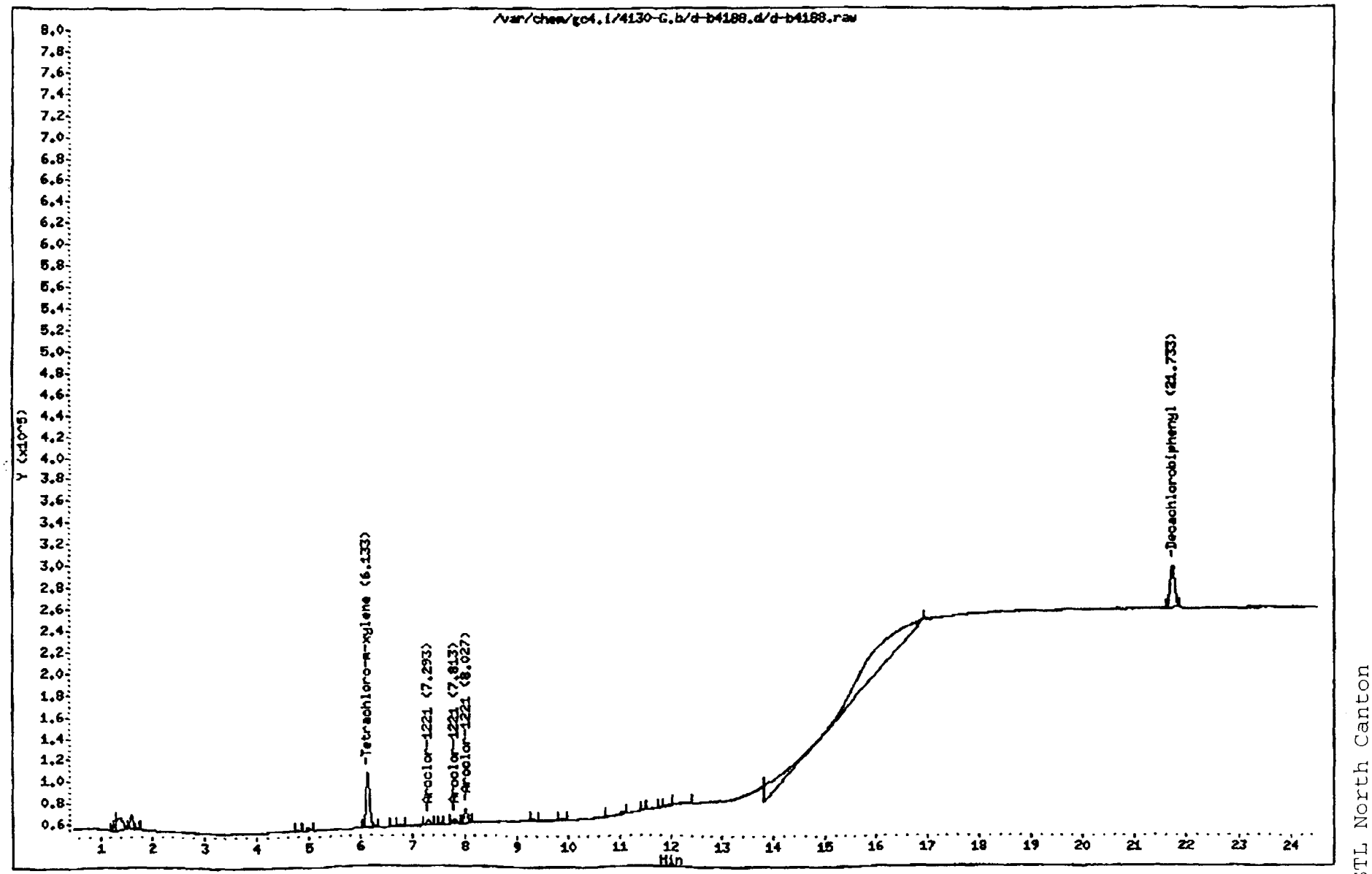
Sample Info: AR1221HA,4130-G.b,,2-AR1221.sub,,1,2

Column phase: DB1701

Instrument: gc4.i

Operator: 01891

Column diameter: 0.53

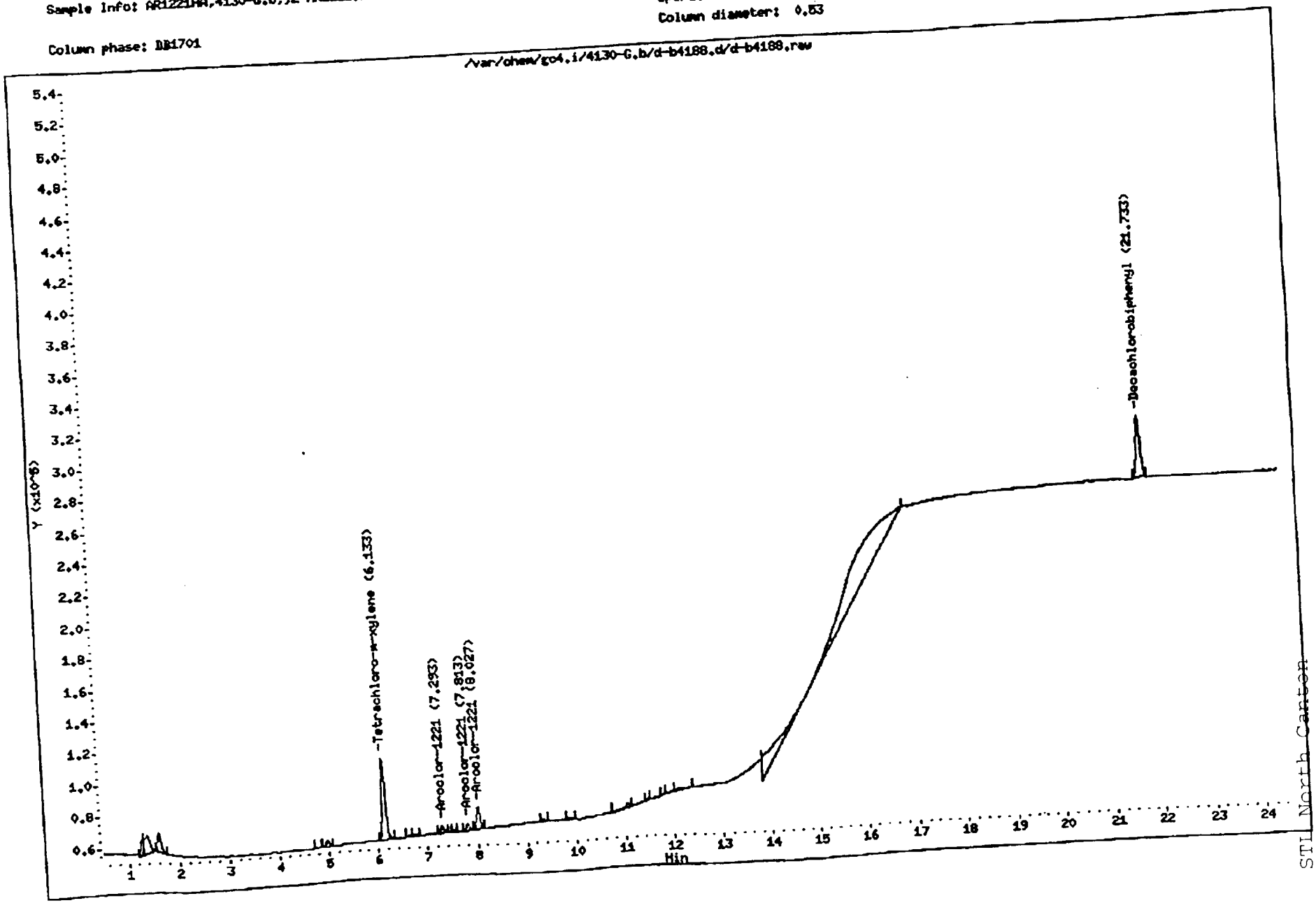


Data File: /var/chem/gc4.i/4130-G.b/d-b4188.d
Date : 13-JUL-2000 19:27
Client ID: AR1221HA
Sample Info: AR1221HA,4130-G.b,,2-AR1221.sub,,1,2

Instrument: gc4.i
Operator: 01891
Column diameter: 0.53

Column phase: DB1701

/var/chem/gc4.i/4130-G.b/d-b4188.d/d-b4188.raw

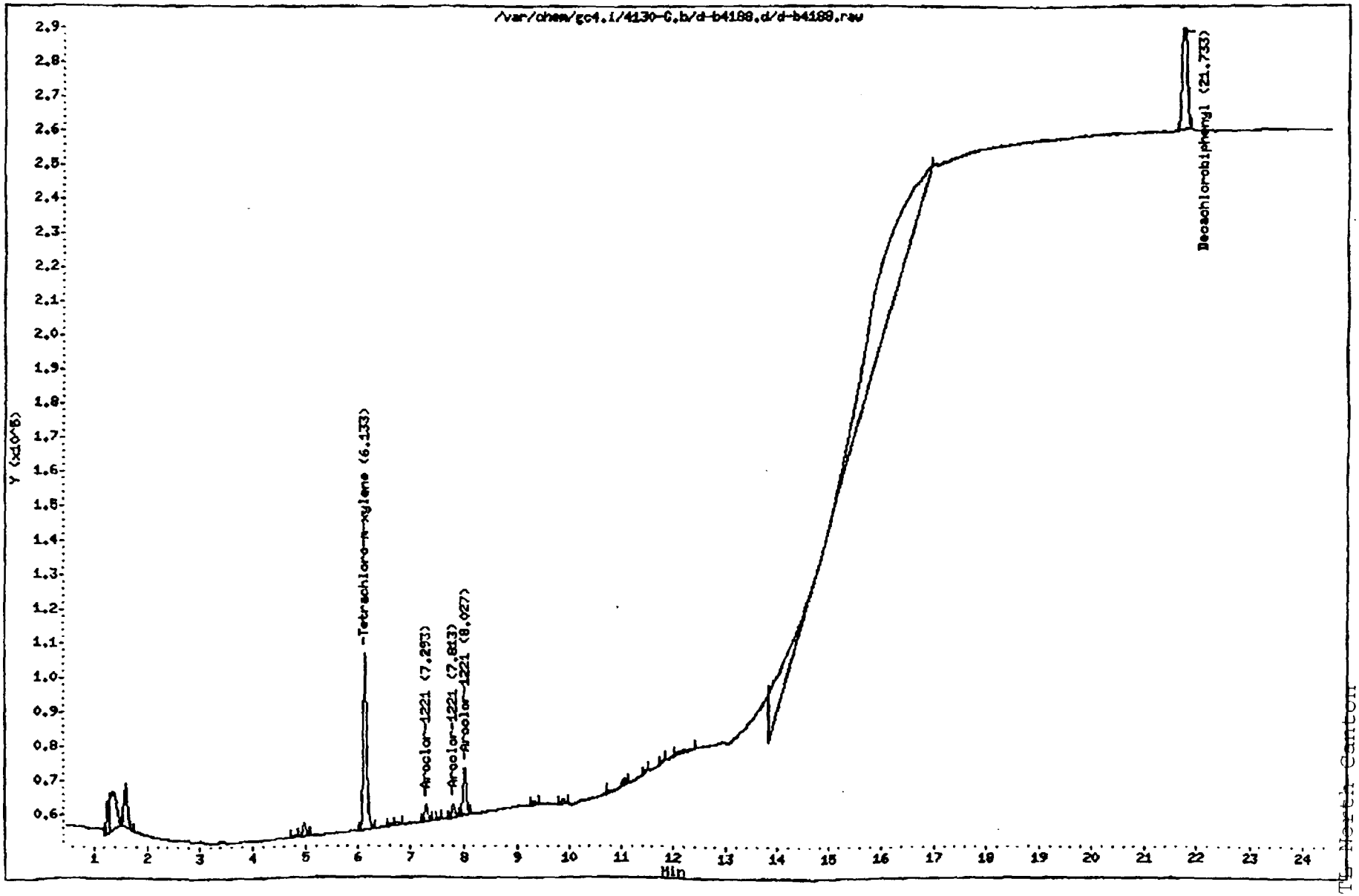


Data File: /var/chem/gc4.i/4130-C.b/d-b4188.d
Date : 13-JUL-2000 19:27
Client ID: AR1221HA
Sample Info: AR1221HA,4130-C.b,,2-AR1221.sub,,1,2

Column phase: DB1701

Instrument: gc4.i

Operator: 01891
Column diameter: 0.53



STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-b4189.d
Lab Smp Id: AR1232HA Client Smp ID: AR1232HA
Inj Date : 13-JUL-2000 19:55
Operator : 01891 Inst ID: gc4.i
Smp Info : AR1232HA,4130-G.b,,3-AR1232.sub,,1,2
Misc Info : 190-81-2
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4B.m
Meth Date : 14-Jul-2000 10:49 matkol Quant Type: ESTD
Cal Date : 13-JUL-2000 23:37 Cal File: d-b4197.raw
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 3-AR1232.sub
Target Version: 3.40 Sample Matrix: None

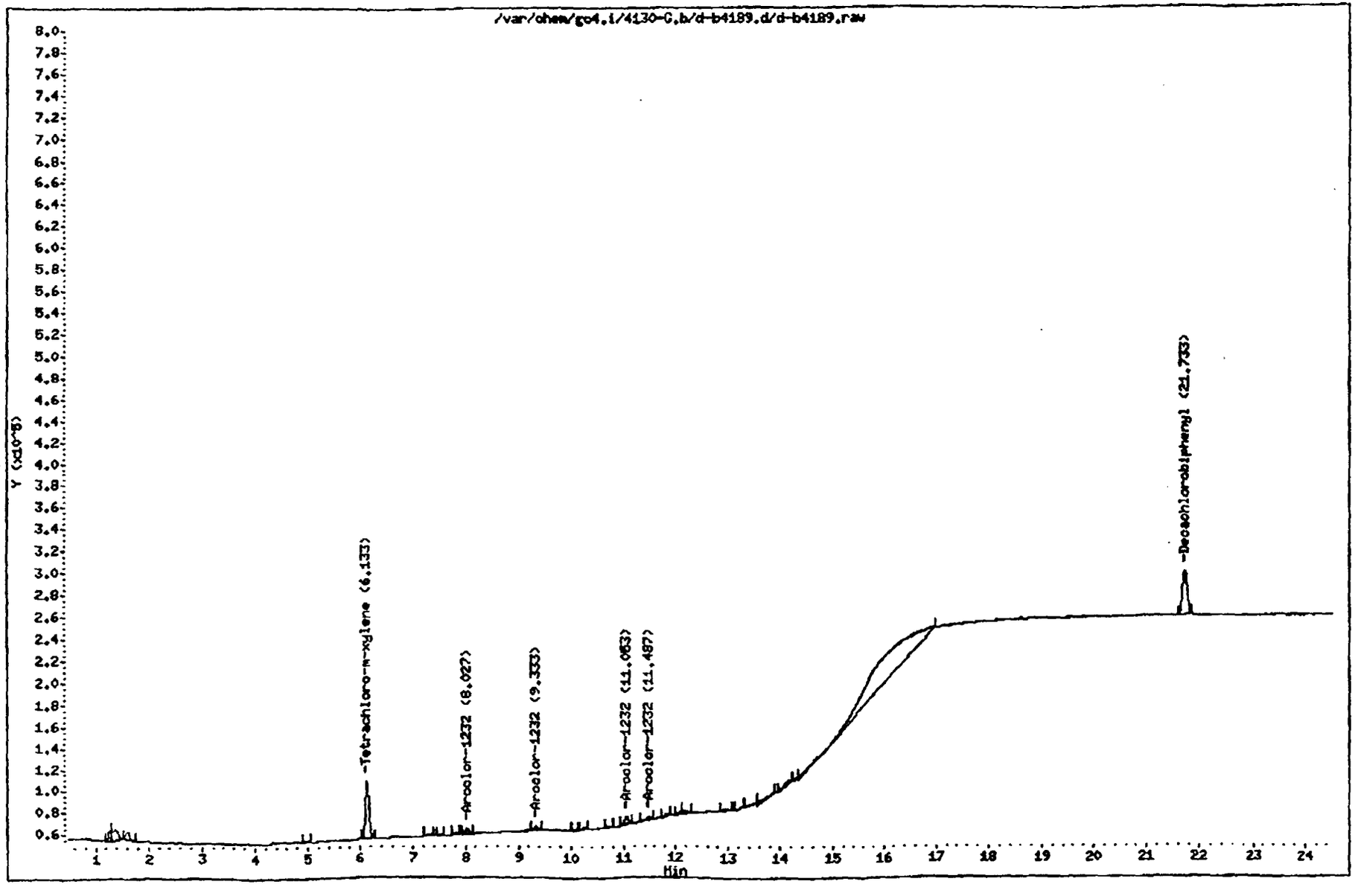
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.133	6.133	0.000	53001	0.02000	0.02000	80.00- 120.00	100.00
4 Aroclor-1232					CAS #: 11141-16-5		
8.027	8.027	0.000	4673	0.10000	0.1000	80.00- 120.00	100.00
9.333	9.333	0.000	3585	0.10000	0.1000	29.17- 59.17	76.72
11.053	11.053	0.000	7325	0.10000	0.1000	15.39- 55.39	156.75
11.487	11.487	0.000	2573	0.10000	0.1000	9.77- 49.77	55.06
Average of Peak Amounts =					0.1		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
21.733	21.735	-0.002	39791	0.04000	0.04000	80.00- 120.00	100.00

Data File: /var/chem/gc4.i/4130-G.b/d-b4189.d
Date : 13-JUL-2000 19:55
Client ID: AR1232HA
Sample Info: AR1232HA,4130-G.b,,3-AR1232.sub,,1,2

Column phase: DB1701

Instrument: gc4.i

Operator: 01891
Column diameter: 0.53

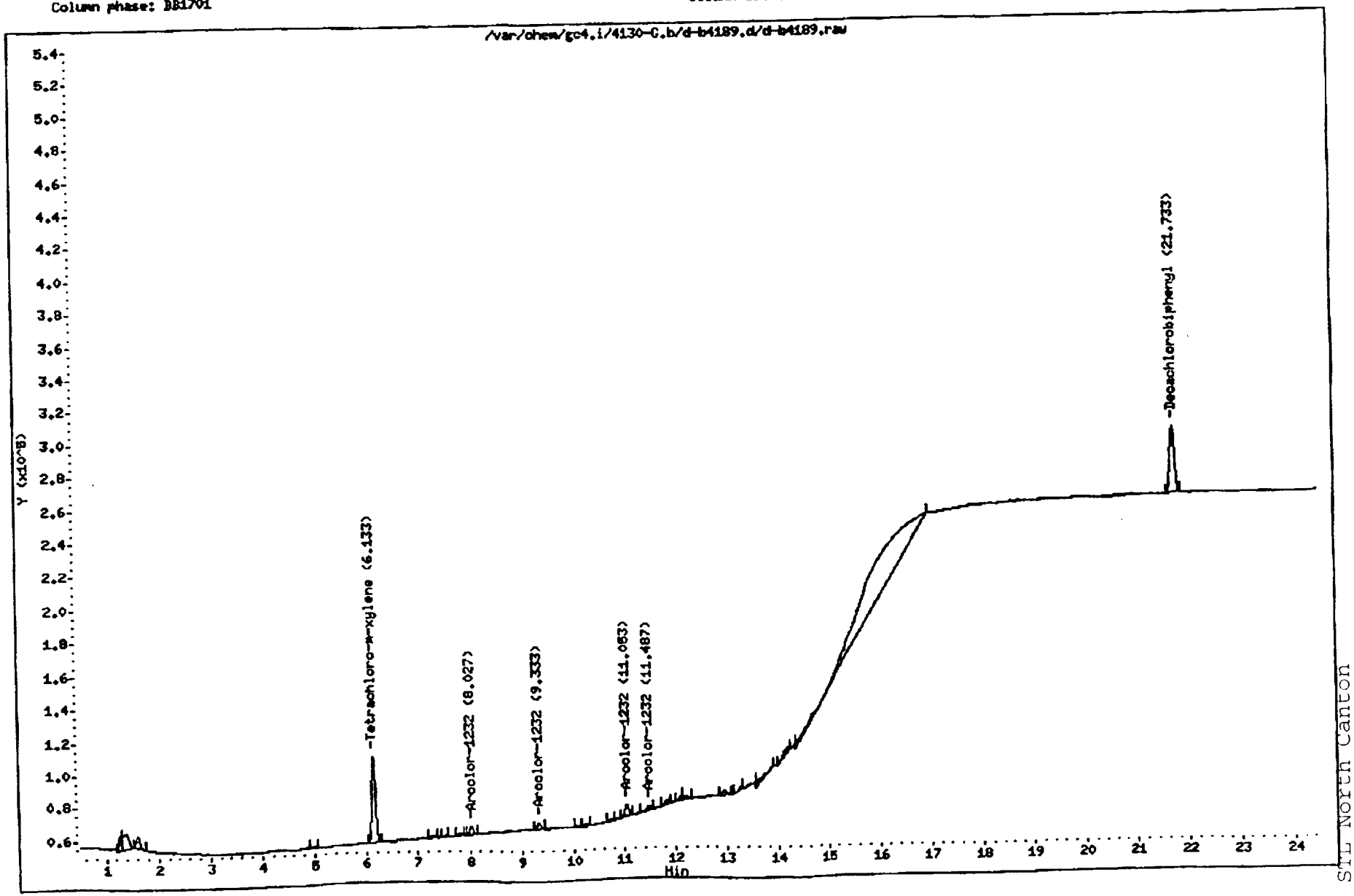


Data File: /var/chem/gc4.i/4130-C.b/d-b4189.d
Date : 13-JUL-2000 19:58
Client ID: AR1232HA
Sample Info: AR1232HA,4130-C.b,,3-AR1232.sub,,1,2

Column phase: DB1701

Instrument: gc4.i

Operator: 01891
Column diameter: 0.53

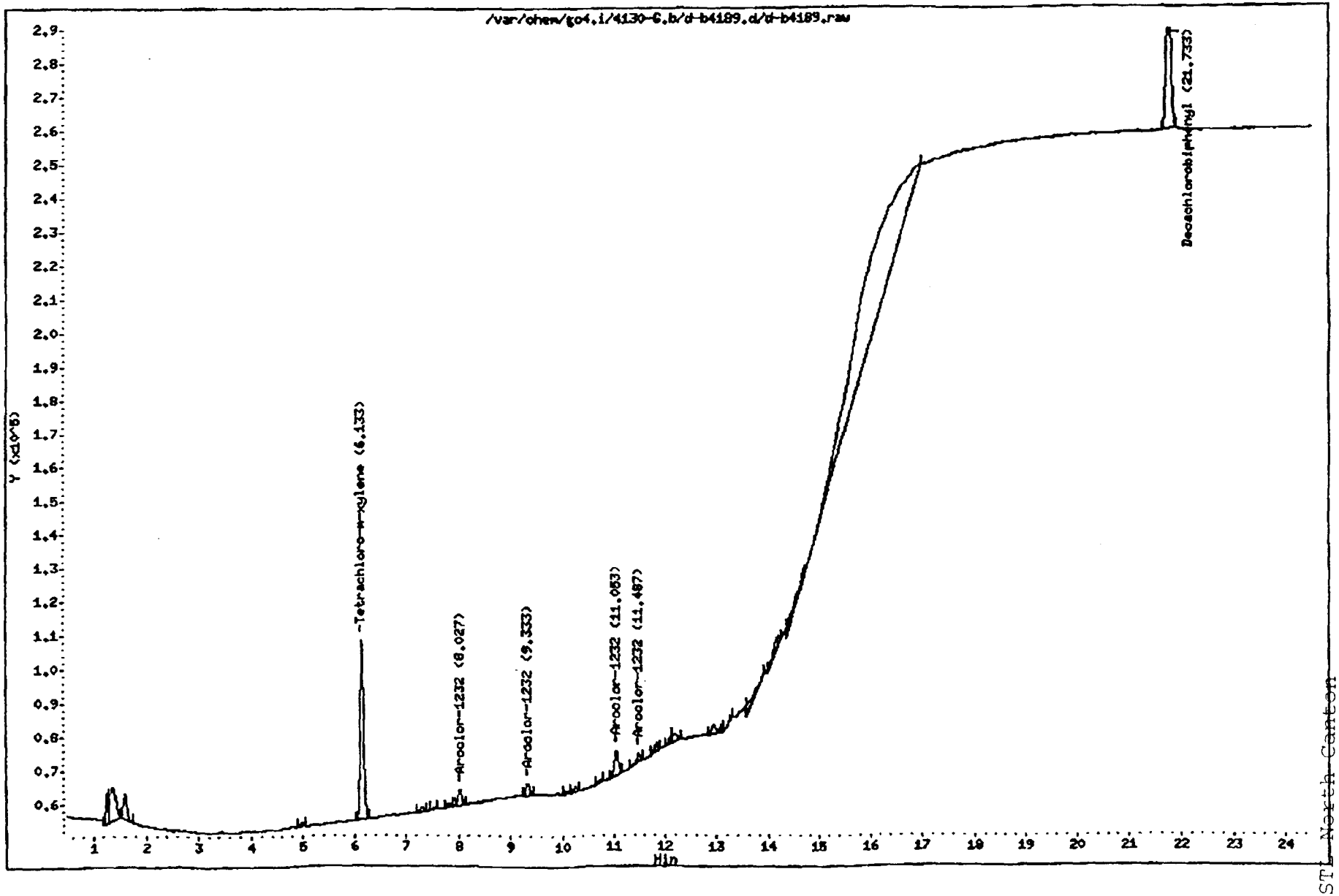


Data File: /var/chem/gc4.i/4130-G.b/d-b4189.d
Date : 13-JUL-2000 19:55
Client ID: AR1232HA
Sample Info: AR1232HA,4130-G.b,,3-AR1232.sub,,1,2

Column phase: DB1701

Instrument: gc4.i

Operator: 01891
Column diameter: 0.53



STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-b4190.d
Lab Smp Id: AR1242HA Client Smp ID: AR1242HA
Inj Date : 13-JUL-2000 20:23
Operator : 01891 Inst ID: gc4.i
Smp Info : AR1242HA,4130-G.b,,4-AR1242.sub,,1,2
Misc Info : 190-81-3
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4B.m
Meth Date : 14-Jul-2000 10:49 matkol Quant Type: ESTD
Cal Date : 13-JUL-2000 23:37 Cal File: d-b4197.raw
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 4-AR1242.sub
Target Version: 3.40 Sample Matrix: None

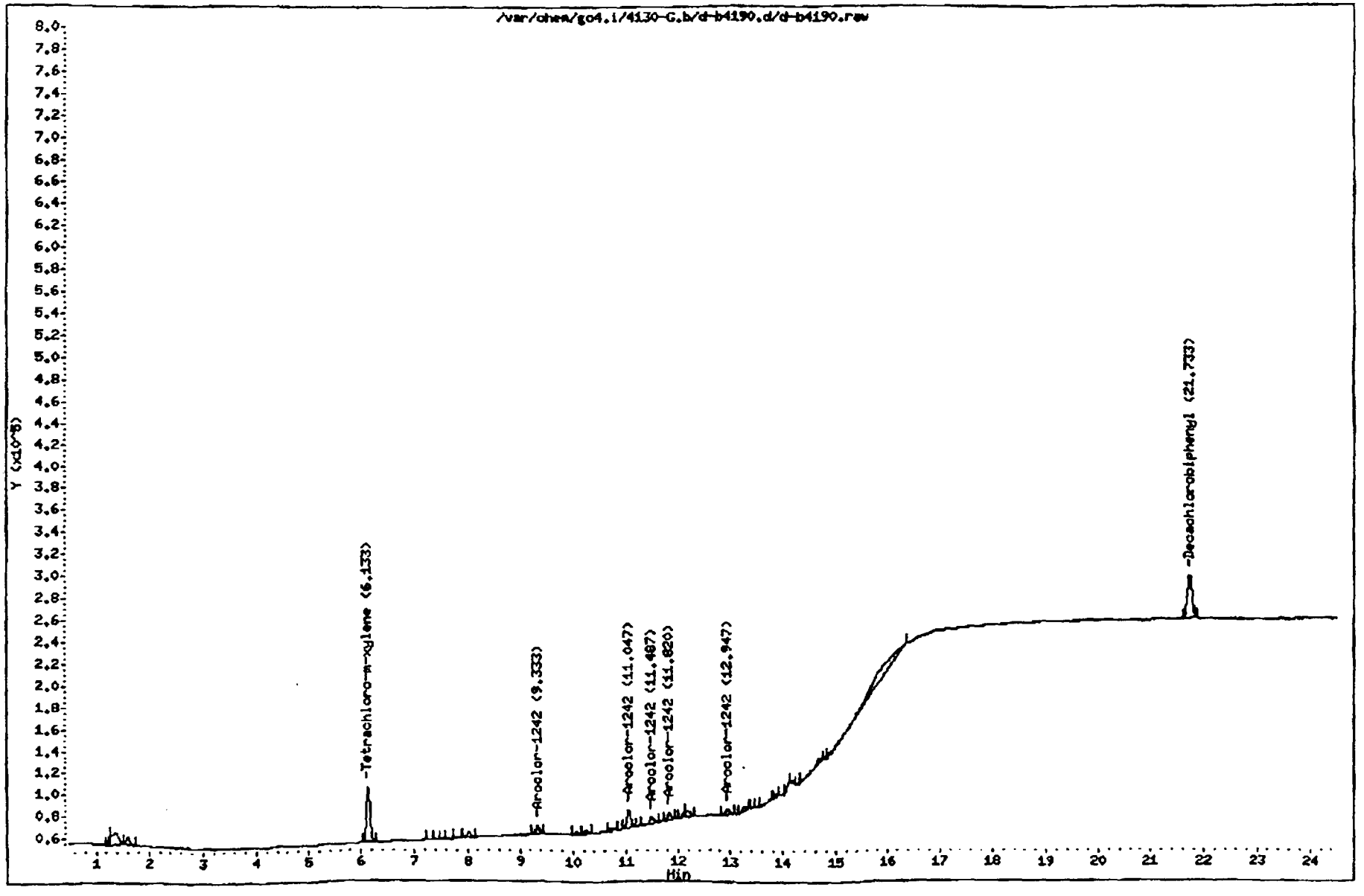
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.133	6.133	0.000	50889	0.02000	0.02000	80.00- 120.00	100.00
# Aroclor-1242					CAS #: 53469-21-9		
9.333	9.333	0.000	7650	0.10000	0.1000	80.00- 120.00	100.00
11.047	11.047	0.000	15934	0.10000	0.1000	68.78- 108.78	208.29
11.487	11.487	0.000	6036	0.10000	0.1000	73.73- 113.73	78.90
11.820	11.820	0.000	5774	0.10000	0.1000	61.99- 101.99	75.48
12.947	12.947	0.000	5105	0.10000	0.1000	48.73- 88.73	66.73
Average of Peak Amounts =					0.1		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
21.733	21.735	-0.002	28960	0.04000	0.04000	80.00- 120.00	100.00

Data File: /var/chem/go4.i/4130-G.b/d-b4190.d
Date : 13-JUL-2000 20:23
Client ID: AR1242HA
Sample Info: AR1242HA,4130-G.b,,4-AR1242.sub,,1,2

Column phase: DB1701

Instrument: go4.i

Operator: 01891
Column diameter: 0.53



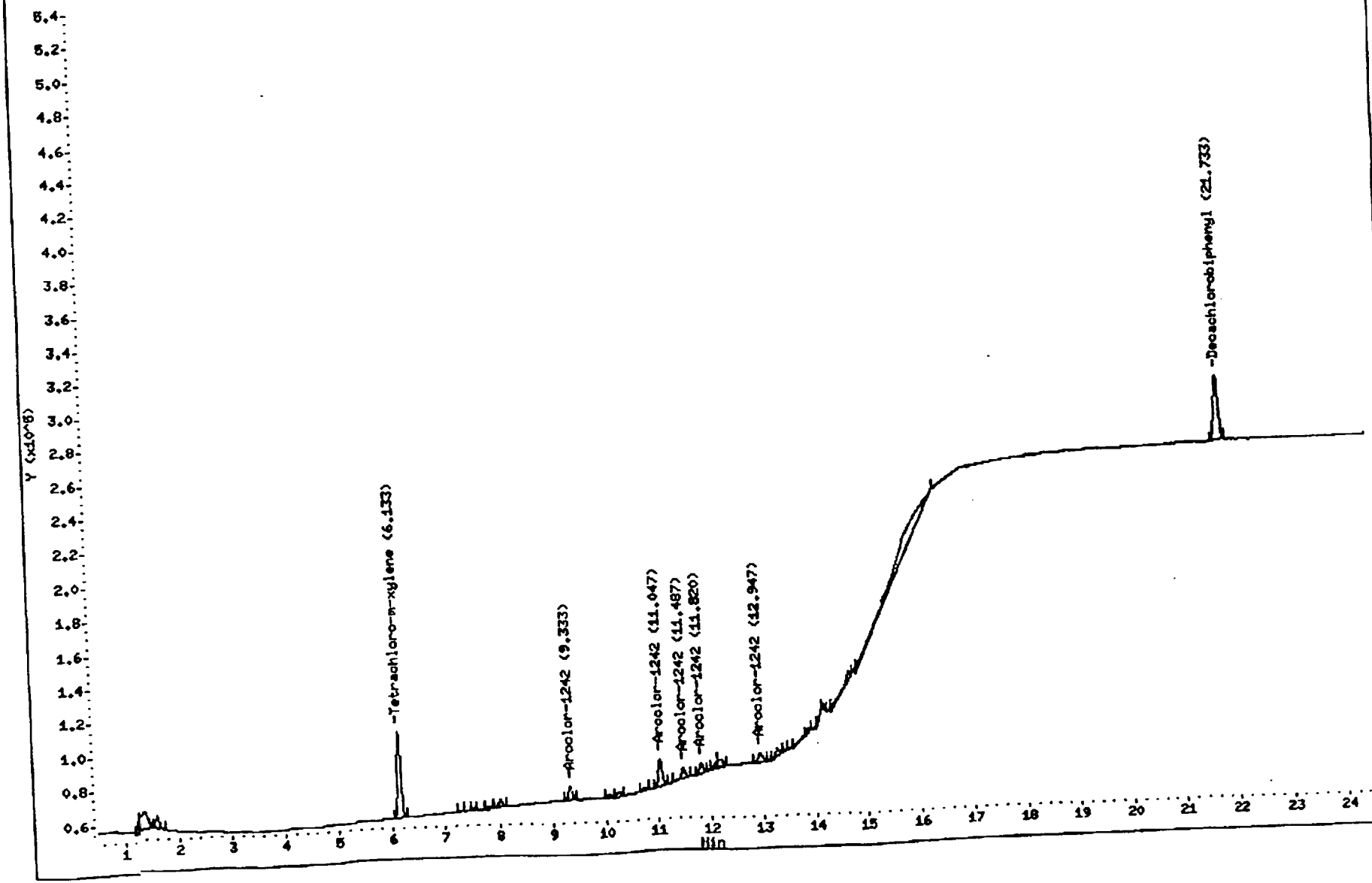
Data File: /var/chem/go4.i/4130-G.b/d-b4190.d
Date : 13-JUL-2000 20:23
Client ID: AR1242HA
Sample Info: AR1242HA,4130-G.b,,4-AR1242.sub,,1,2

Column phase: DB1701

Instrument: go4.i

Operator: 01891
Column diameter: 0.53

/var/chem/go4.i/4130-G.b/d-b4190.d/d-b4190.raw

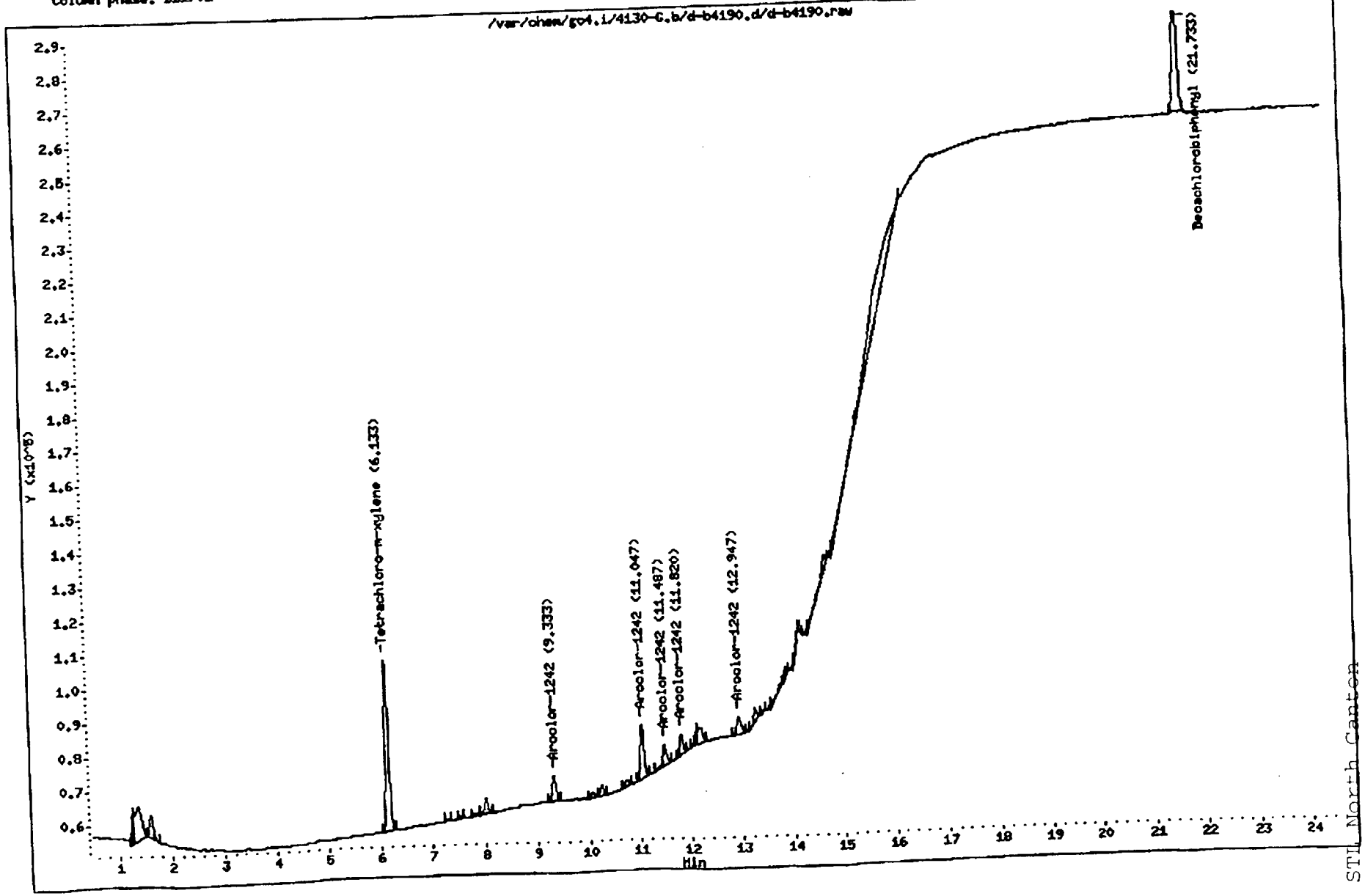


Data File: /var/chem/go4.i/4130-G.b/d-b4190.d
Date : 13-JUL-2000 20:23
Client ID: AR1242HA
Sample Info: AR1242HA,4130-G.b,,4-AR1242.sub,,1,2

Instrument: go4.i

Operator: 01891
Column diameter: 0.53

Column phase: DB1701



STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-b4191.d
Lab Smp Id: AR1248HA Client Smp ID: AR1248HA
Inj Date : 13-JUL-2000 20:50
Operator : 01891 Inst ID: gc4.i
Smp Info : AR1248HA,4130-G.b,,5-AR1248.sub,,1,2
Misc Info : 190-81-4
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4B.m
Meth Date : 14-Jul-2000 10:49 matkol Quant Type: ESTD
Cal Date : 13-JUL-2000 23:37 Cal File: d-b4197.raw
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 5-AR1248.sub
Target Version: 3.40 Sample Matrix: None

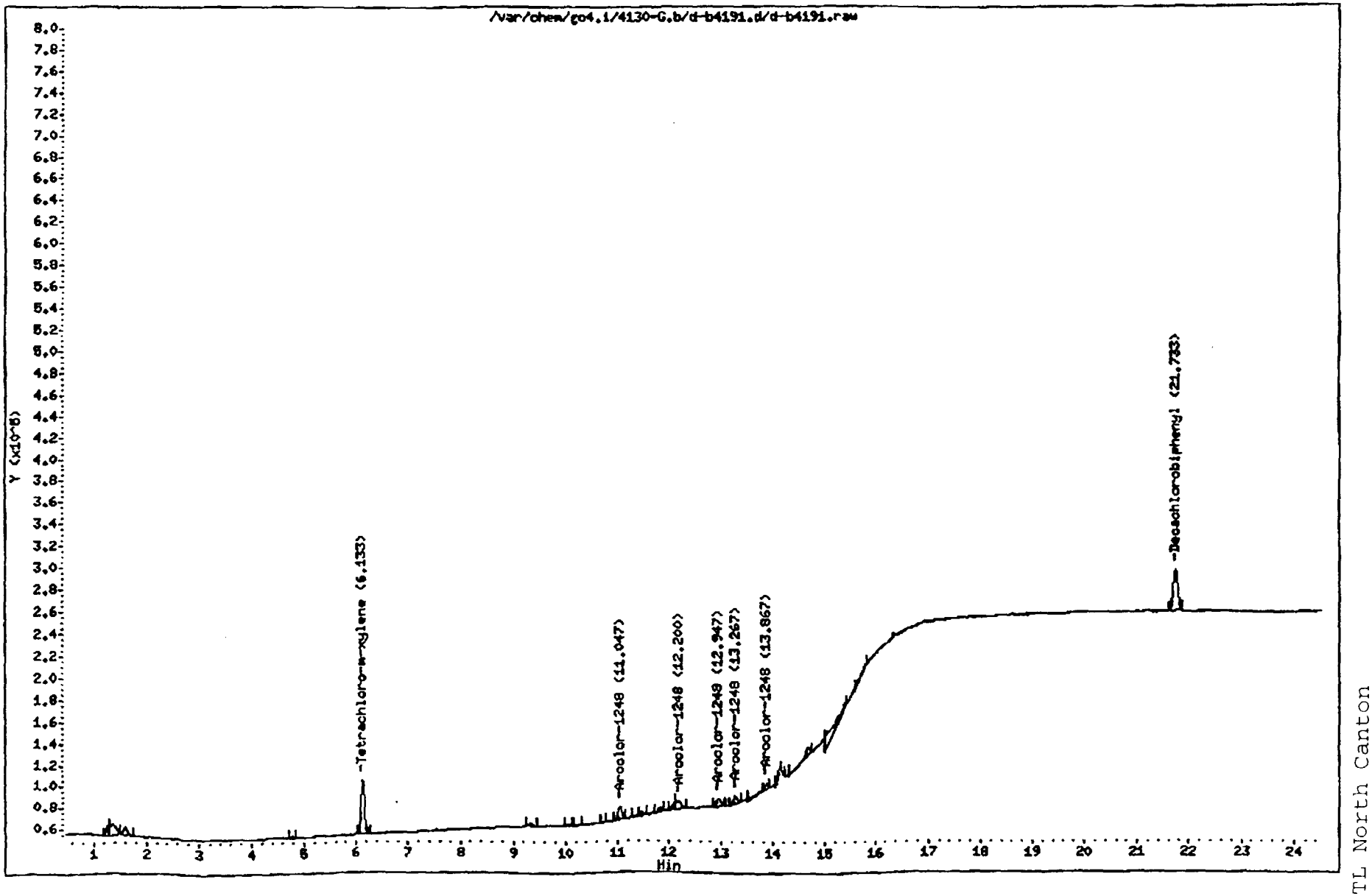
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.133	6.133	0.000	50318	0.02000	0.02000	80.00- 120.00	100.00
9 Aroclor-1248					CAS #: 12672-29-6		
11.047	11.047	0.000	11782	0.10000	0.1000	80.00- 120.00	100.00
12.200	12.200	0.000	6784	0.10000	0.1000	72.44- 112.44	57.58
12.947	12.947	0.000	6935	0.10000	0.1000	62.86- 102.86	58.86
13.267	13.267	0.000	6966	0.10000	0.1000	65.30- 95.30	59.29
13.867	13.867	0.000	5313	0.10000	0.1000	25.30- 65.30	45.09
Average of Peak Amounts =					0.1		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
21.733	21.735	-0.002	38146	0.04000	0.04000	80.00- 120.00	100.00

Data File: /var/chem/go4.i/4130-G.b/d-b4191.d
Date : 13-JUL-2000 20:50
Client ID: AR1248HA
Sample Info: AR1248HA,4130-G.b,,5-AR1248.sub,,1,2

Column phase: DB1701

Instrument: go4.i

Operator: 01891
Column diameter: 0.53

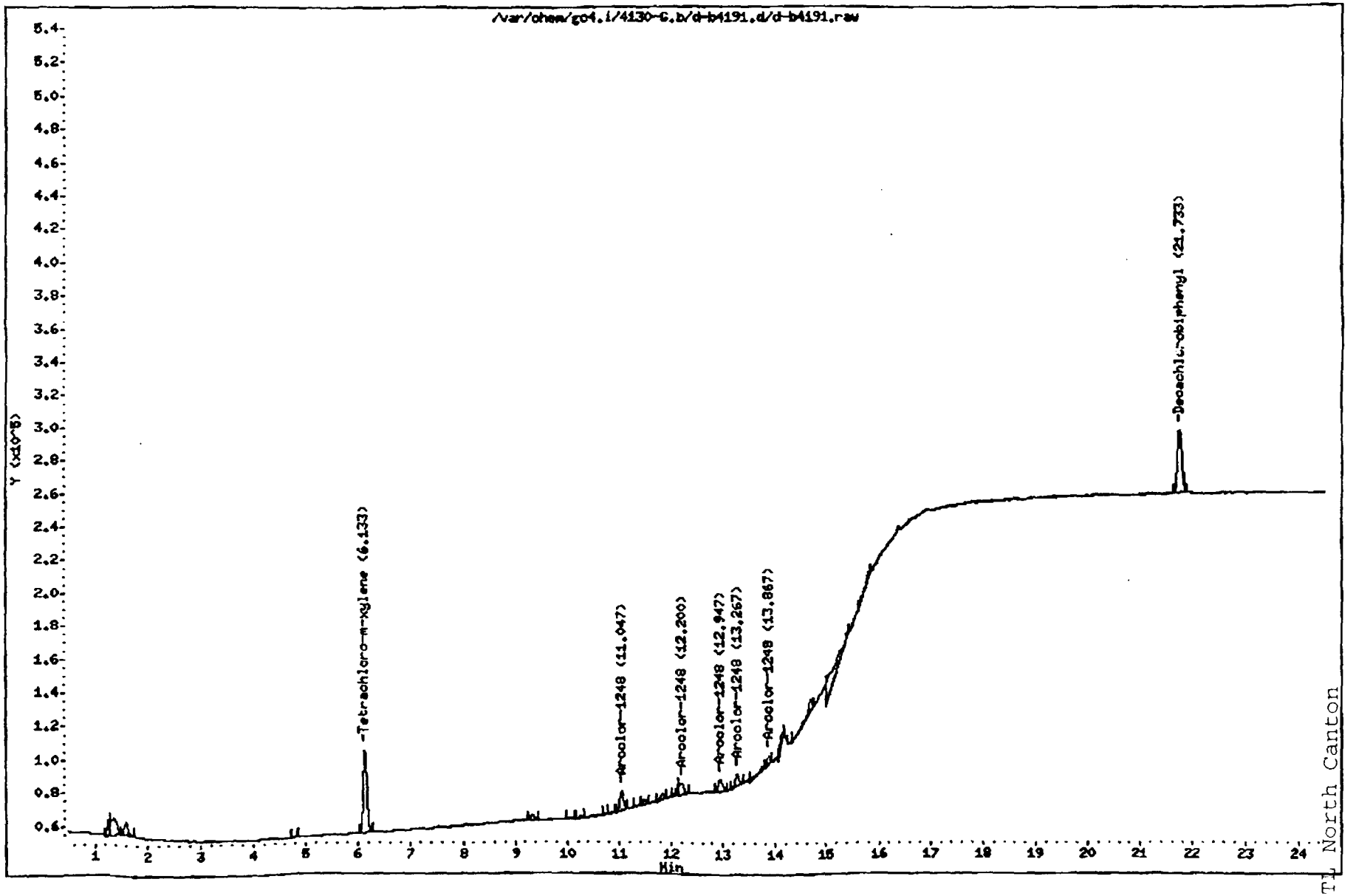


Data File: /var/chem/gc4.i/4130-G.b/d-b4191.d
Date : 13-JUL-2000 20:50
Client ID: AR1248HA
Sample Info: AR1248HA,4130-G.b,,5-AR1248.sub,,1,2

Column phase: DB1701

Instrument: gc4.i

Operator: 01891
Column diameter: 0.53



Data File: /var/chem/go4.i/4130-G.b/d-b4191.d

Date : 13-JUL-2000 20:50

Client ID: AR1248HA

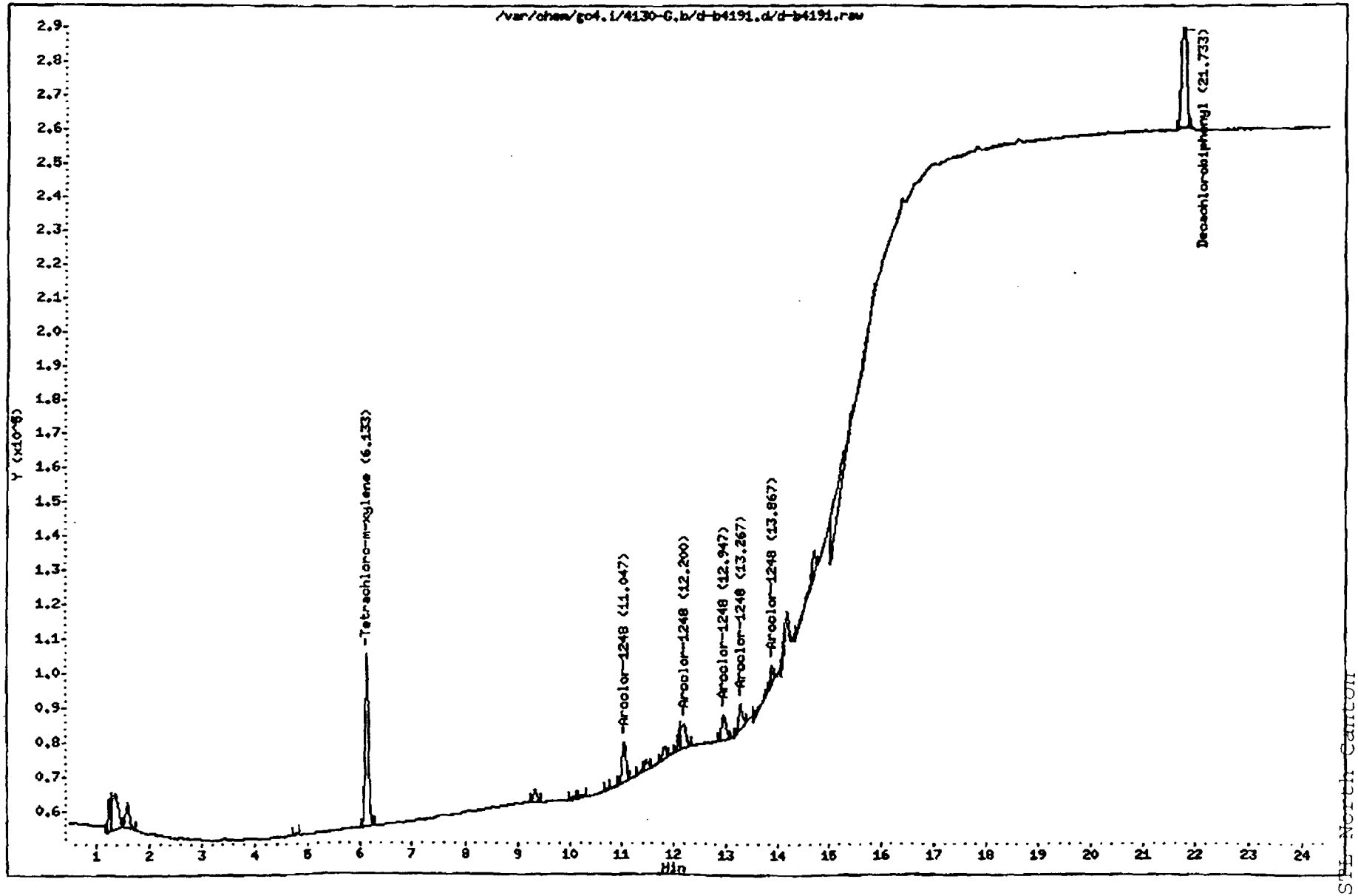
Sample Info: AR1248HA,4130-G.b,,5-AR1248.sub,,1,2

Column phase: DB1701

Instrument: go4.i

Operator: 01891

Column diameter: 0.53



STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-b4192.d
Lab Smp Id: AR1254HA Client Smp ID: AR1254HA
Inj Date : 13-JUL-2000 21:18
Operator : 01891 Inst ID: gc4.i
Smp Info : AR1254HA,4130-G.b,,6-AR1254.sub,,1,2
Misc Info : 190-81-5
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4B.m
Meth Date : 14-Jul-2000 10:49 matkol Quant Type: ESTD
Cal Date : 13-JUL-2000 23:37 Cal File: d-b4197.raw
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 6-AR1254.sub
Target Version: 3.40 Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.133	6.133	0.000	49997	0.02000	0.02000	80.00- 120.00	100.00
14 Aroclor-1254					CAS #: 11097-69-1		
14.520	14.520	0.000	10987	0.10000	0.1000	80.00- 120.00	100.00
15.387	15.387	0.000	20028	0.10000	0.1000	72.36- 112.36	182.29
15.800	15.800	0.000	15013	0.10000	0.1000	61.18- 101.18	136.64
15.993	15.993	0.000	10360	0.10000	0.1000	39.36- 79.36	94.29
16.580	16.580	0.000	15944	0.10000	0.1000	80.67- 120.67	145.12
Average of Peak Amounts =					0.1		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
21.733	21.735	-0.002	37993	0.04000	0.04000	80.00- 120.00	100.00

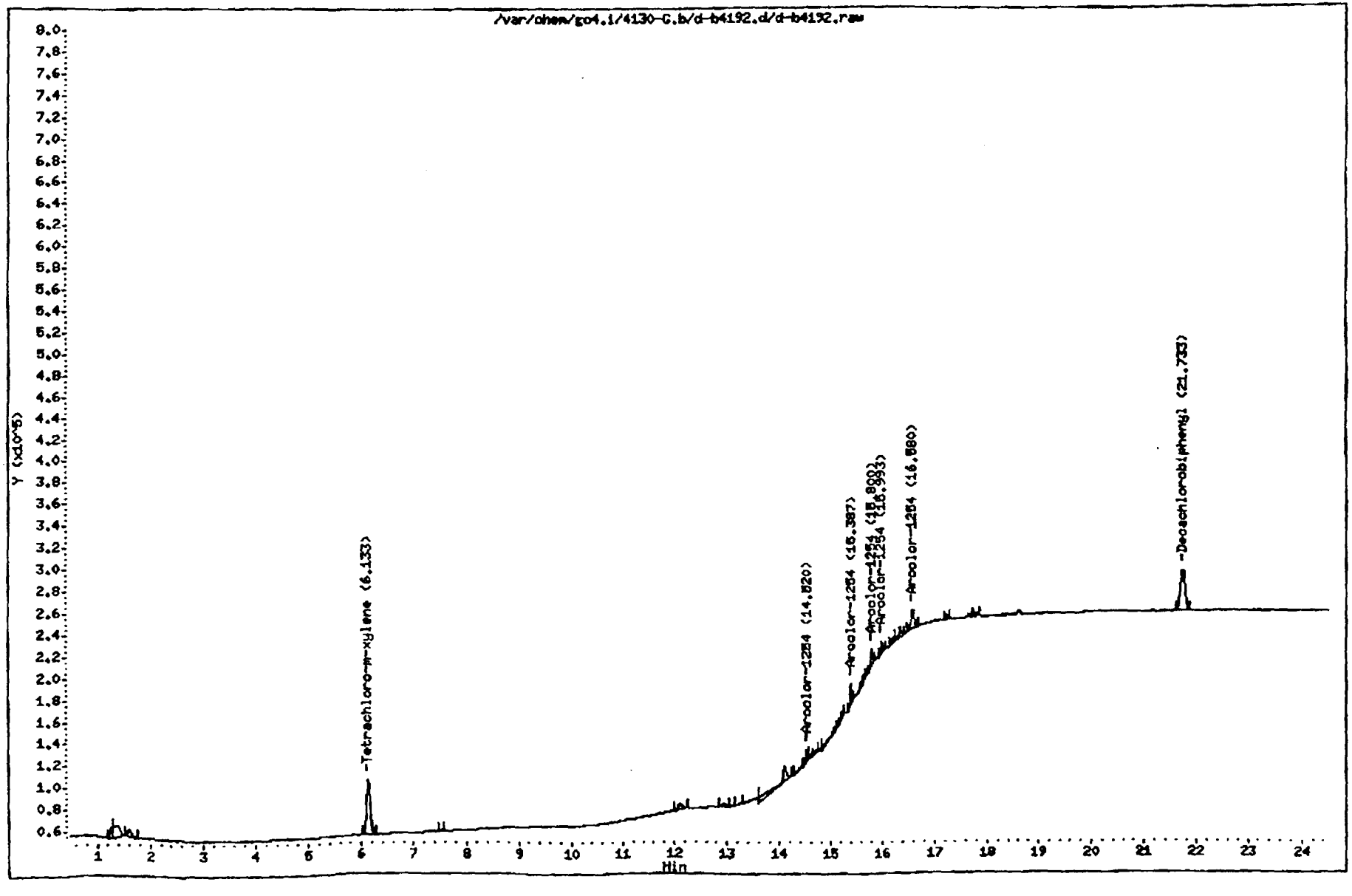
Data File: /var/chem/gc4.i/4130-C.b/d-b4192.d
Date : 13-JUL-2000 21:18
Client ID: AR1254HA
Sample Info: AR1254HA,4130-C.b,,6-AR1254,sub,,1,2

Column phase: DB1701

Page 2

Instrument: gc4.i

Operator: 01891
Column diameter: 0.53



Data File: /var/chem/go4.i/4130-G.b/d-b4192.d
Date : 13-JUL-2000 21:18
Client ID: AR1254HA
Sample Info: AR1254HA,4130-G.b,,6-AR1254.sub,,1,2

Instrument: go4.i

Operator: 01891
Column diameter: 0.53

Column phase: DB1701

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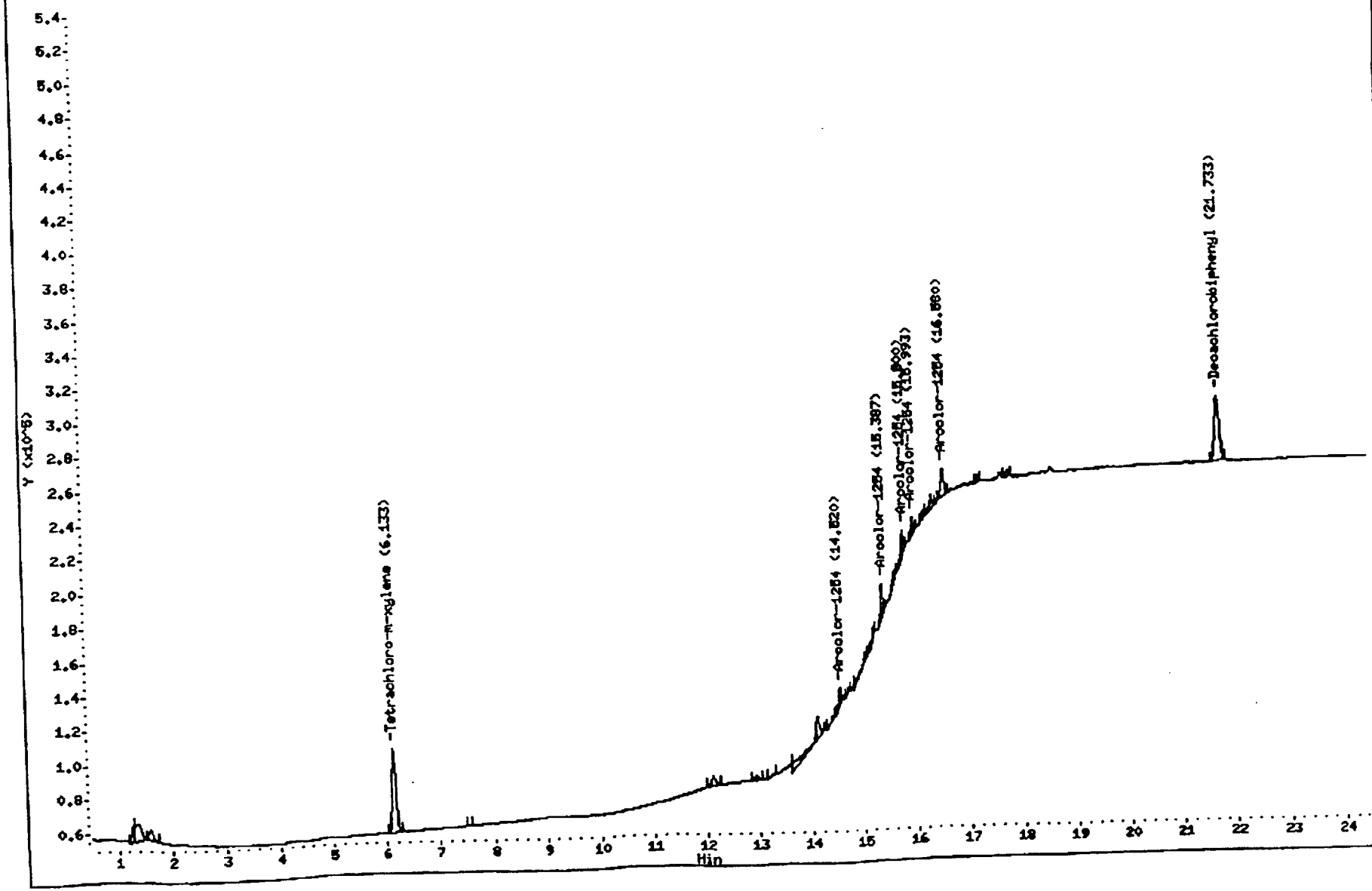
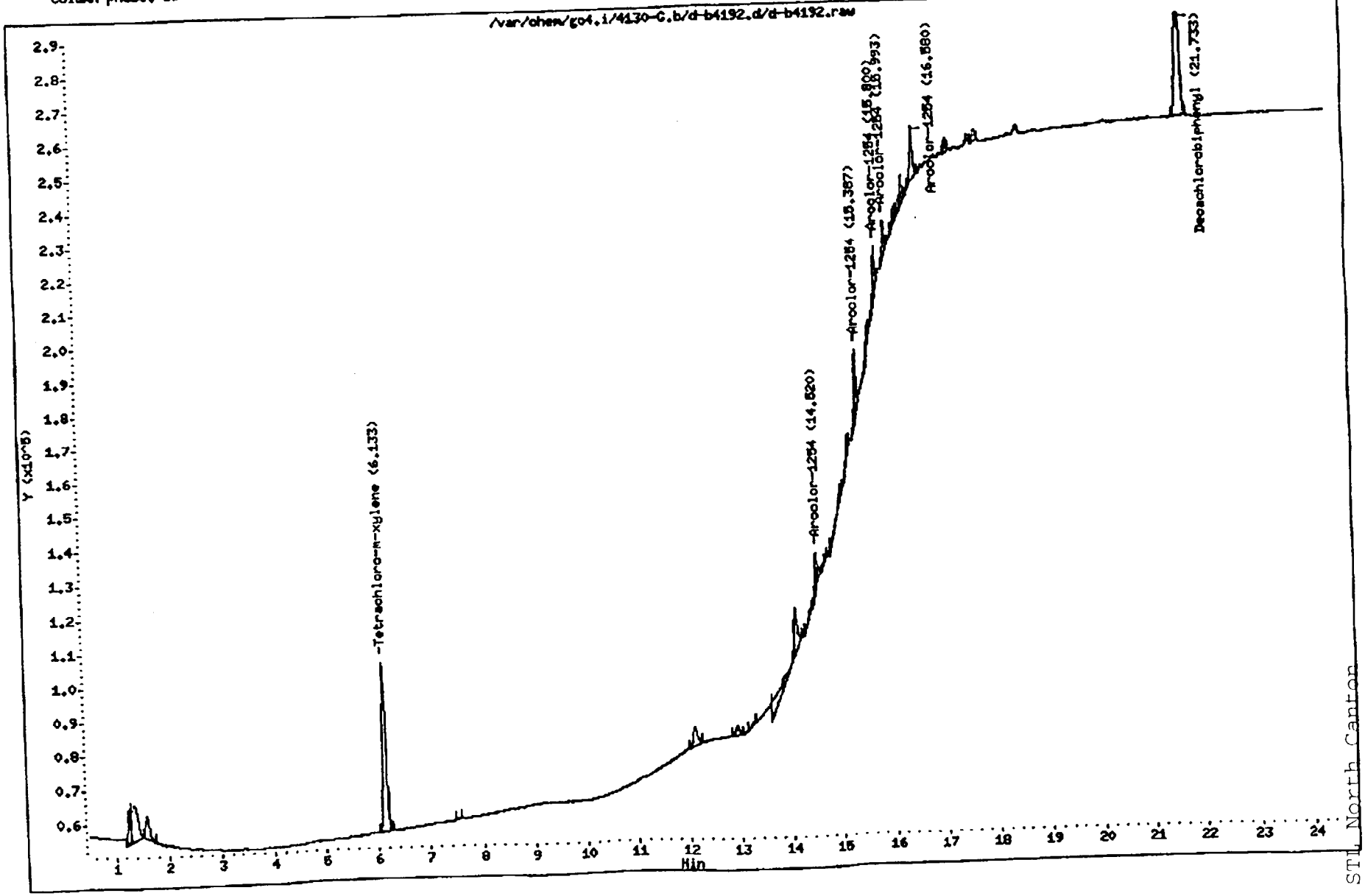


Data File: /var/chem/go4.i/4130-G.b/d-b4192.d
Date : 13-JUL-2000 21:18
Client ID: AR1254HA
Sample Info: AR1254HA,4130-G.b,,6-AR1254.sub,,1,2

Column phase: DB1701

Instrument: go4.i

Operator: 01891
Column diameter: 0.53



STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-b4193.d
Lab Smp Id: TOXHA Client Smp ID: TOXHA
Inj Date : 13-JUL-2000 21:46
Operator : 01891 Inst ID: gc4.i
Smp Info : TOXHA,4130-G.b,,7-TOXAPH.sub,,1,2
Misc Info : 190-81-6
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4B.m
Meth Date : 14-Jul-2000 10:49 matkol Quant Type: ESTD
Cal Date : 13-JUL-2000 23:37 Cal File: d-b4197.raw
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 7-TOXAPH.sub
Target Version: 3.40 Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.133	6.133	0.000	54433	0.02000	0.02000	80.00- 120.00	100.00
20 Toxaphene					CAS #: 8001-35-2		
16.073	16.073	0.000	29015	0.50000	0.5000	80.00- 120.00	100.00
16.393	16.393	0.000	29317	0.50000	0.5000	96.40- 136.40	101.04
16.573	16.573	0.000	25531	0.50000	0.5000	68.19- 108.19	87.99
16.747	16.747	0.000	23301	0.50000	0.5000	160.60- 200.60	80.31
Average of Peak Amounts =					0.5		
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
21.733	21.735	-0.002	41071	0.04000	0.04000	80.00- 120.00	100.00

Data File: /var/chem/gc4.i/4130-G.b/d-b4193.d

Date : 13-JUL-2000 21:46

Client ID: TOXHA

Sample Info: TOXHA,4130-G.b,,7-TOXAPH.sub,,1,2

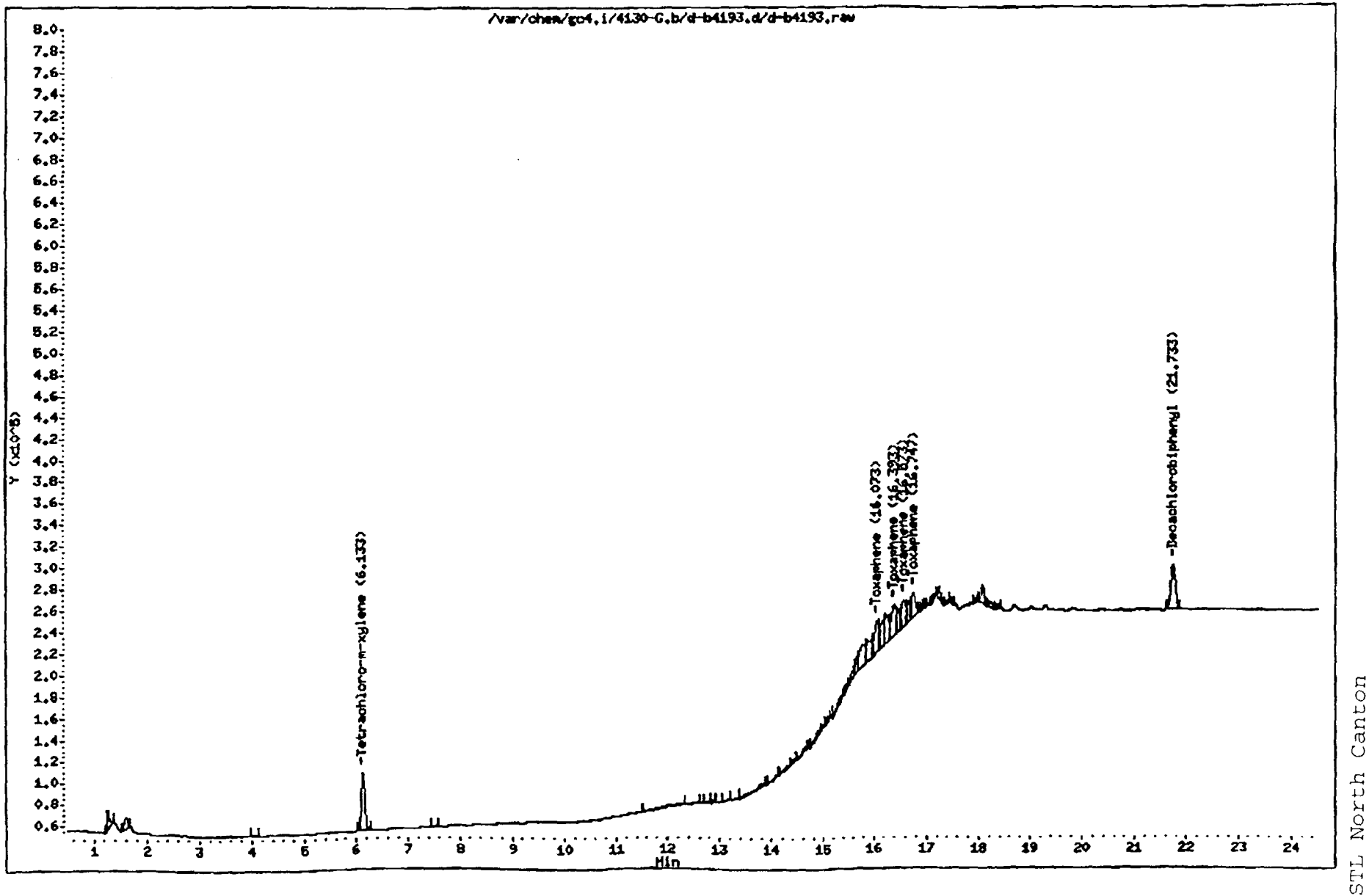
Column phase: DB1701

Page 2

Instrument: gc4.i

Operator: 01891

Column diameter: 0.53

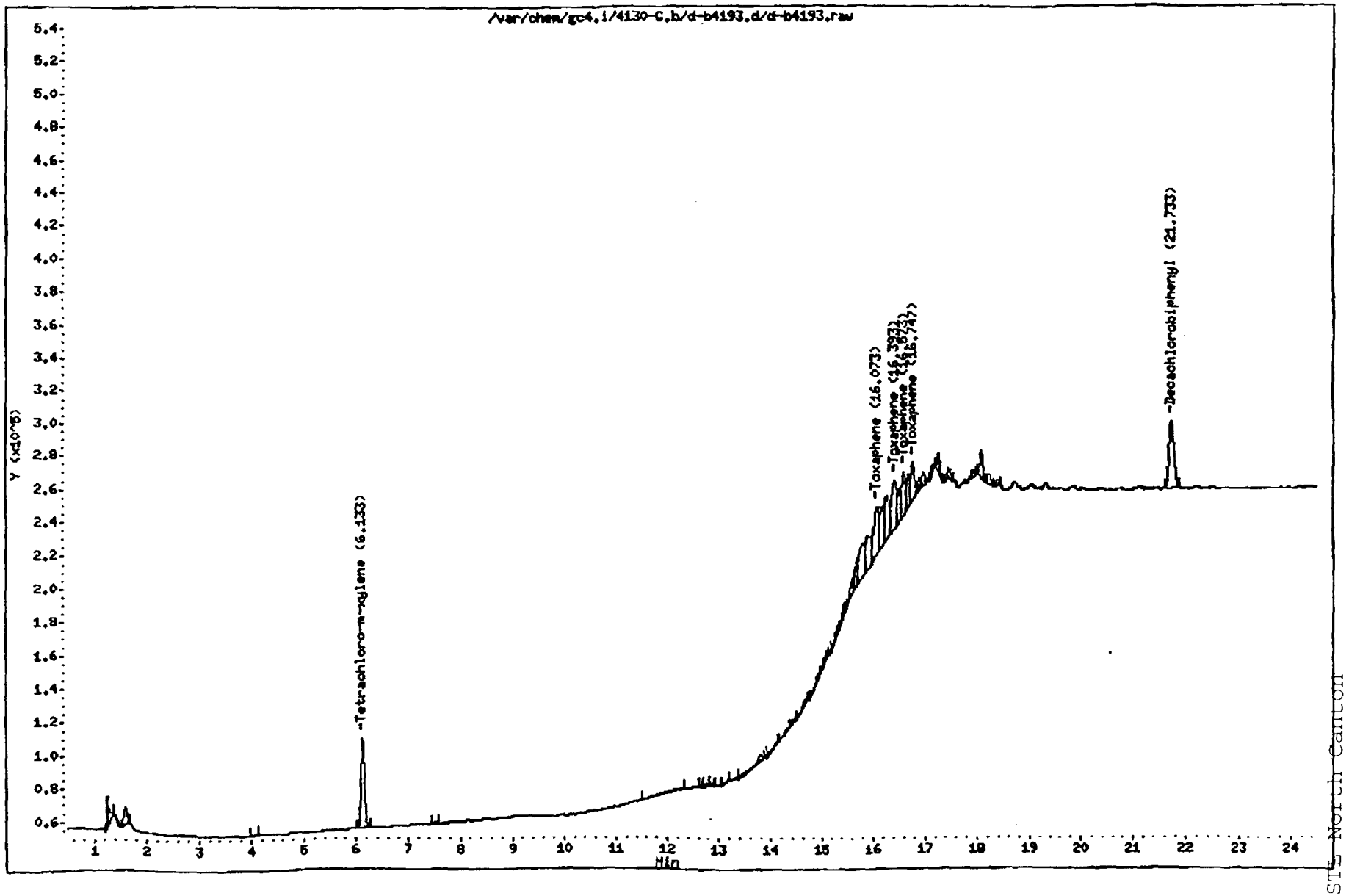


Data File: /var/chem/gc4.i/4130-C.b/d-b4193.d
Date : 13-JUL-2000 21:46
Client ID: TOXHA
Sample Info: TOXHA,4130-C.b,,7-TOXAPH.sub,,1,2

Column phase: DB1701

Instrument: gc4.i

Operator: 01891
Column diameter: 0.53



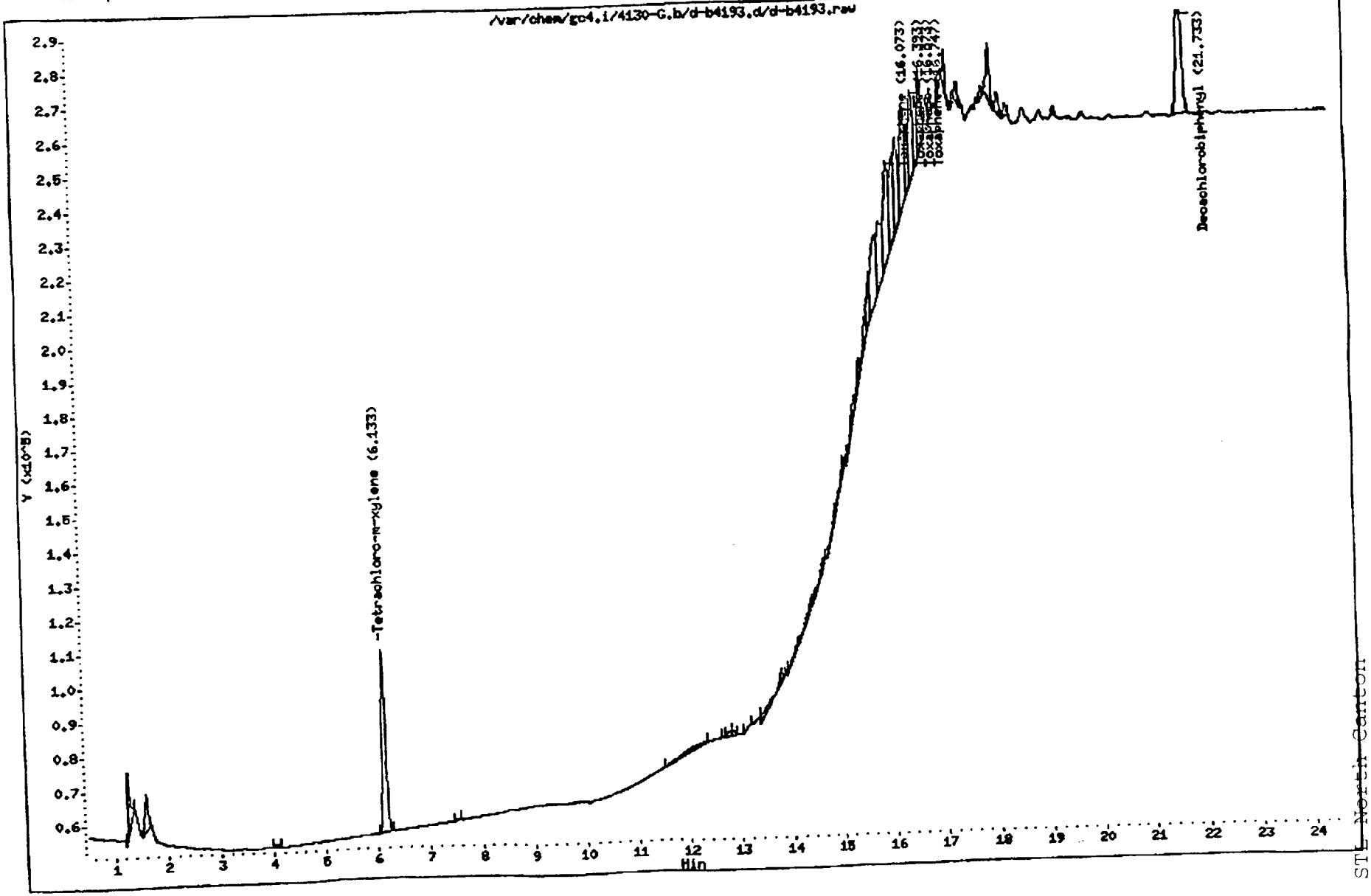
Data File: /var/chem/gc4.i/4130-G.b/d-b4193.d
Date : 13-JUL-2000 21:46
Client ID: TOXHA
Sample Info: TOXHA,4130-G.b,,7-TOXAPH.sub,,1,2

Column phase: DB1701

Instrument: gc4.i

Operator: 01891
Column diameter: 0.53

/var/chem/gc4.i/4130-G.b/d-b4193.d/d-b4193.raw



STL-PITTSBURGH

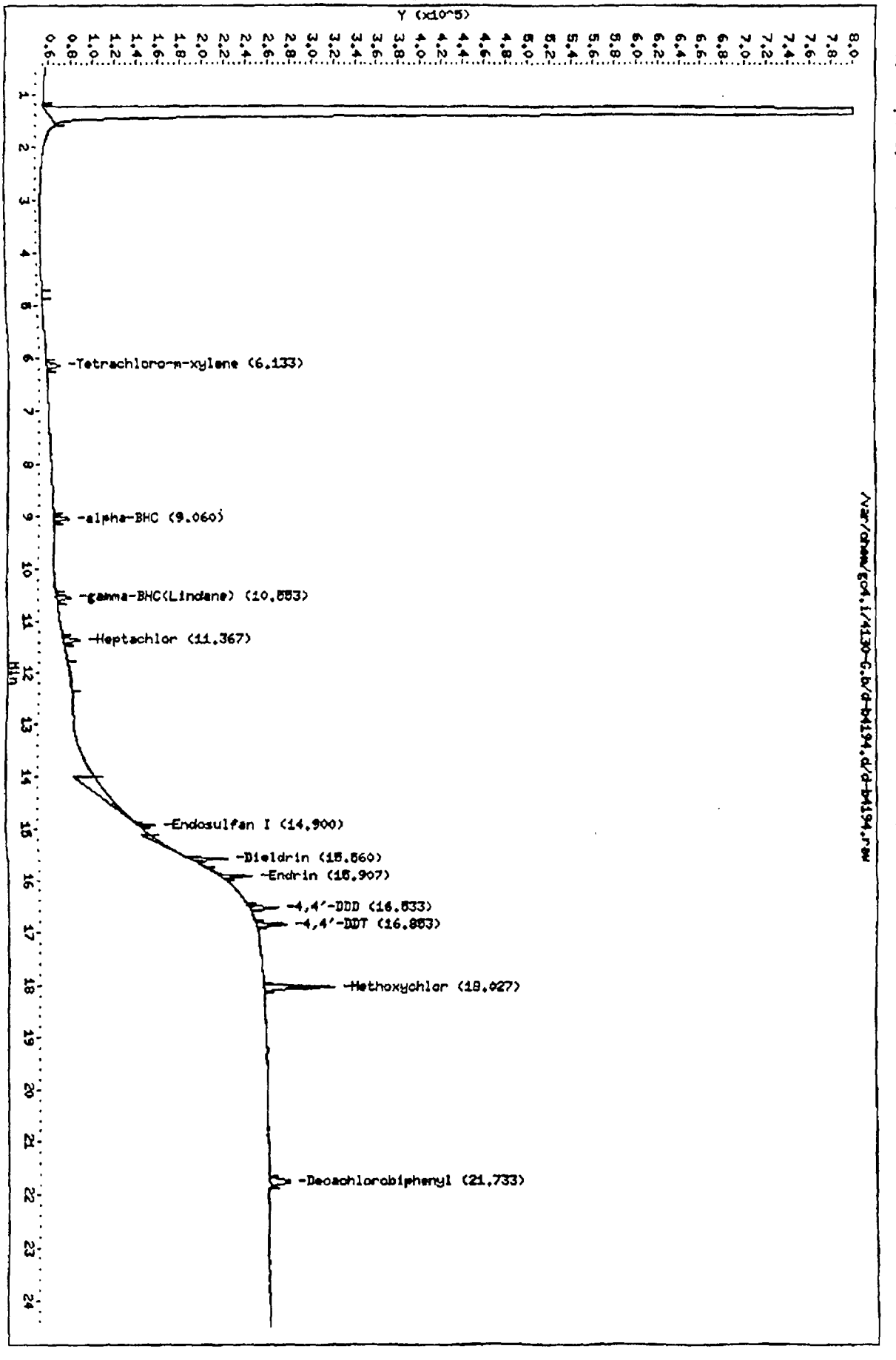
Data file : /var/chem/gc4.i/4130-G.b/d-b4194.d
Lab Smp Id: INDALHA Client Smp ID: INDALHA
Inj Date : 13-JUL-2000 22:14
Operator : 01891 Inst ID: gc4.i
Smp Info : INDALHA,4130-G.b,,8-INDA.sub,,1,1
Misc Info : 190-82-1
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4B.m
Meth Date : 14-Jul-2000 10:49 matkol Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-b4199.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8-INDA.sub
Target Version: 3.40 Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.133	6.133	0.000	12484	0.00500	0.005162	80.00- 120.00	100.00
5 alpha-BHC					CAS #: 319-84-6		
9.060	9.065	-0.005	13834	0.00500	0.004253	80.00- 120.00	100.00
6 gamma-BHC(Lindane)					CAS #: 58-89-9		
10.553	10.557	-0.004	13275	0.00500	0.004342	80.00- 120.00	100.00
7 Heptachlor					CAS #: 76-44-8		
11.367	11.368	-0.001	66872	0.00500	0.004597	80.00- 120.00	100.00
15 Endosulfan I					CAS #: 959-98-8		
14.900	14.900	0.000	15468	0.00500	0.004573	80.00- 120.00	100.00
19 Dieldrin					CAS #: 60-57-1		
15.560	15.565	-0.005	35296	0.01000	0.009255	80.00- 120.00	100.00
22 Endrin					CAS #: 72-20-8		
15.907	15.908	-0.001	28427	0.01000	0.009543	80.00- 120.00	100.00
23 4,4'-DDD					CAS #: 72-54-8		
16.533	16.532	0.001	25910	0.01000	0.009300	80.00- 120.00	100.00
25 4,4'-DDT					CAS #: 50-29-3		
16.853	16.852	0.001	27138	0.01000	0.009544	80.00- 120.00	100.00

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
28 Methoxychlor					CAS #: 72-43-5		
18.027	18.026	-0.006	64993	0.05000	0.04774	80.00- 120.00	100.00
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
21.733	21.735	-0.002	18815	0.01000	0.01034	80.00- 120.00	100.00

Data File: /var/chem/gc4.i/4130-G.b/d-b4194.d
Date : 13-JUL-2000 22:14
Client ID: INDALH4
Sample Info: INDALH4,4130-G.b,8-INDA.sub,,1,1
Column phase: DB1701

Instrument: gc4.i
Operator: 01894
Column diameter: 0.53



Page 3

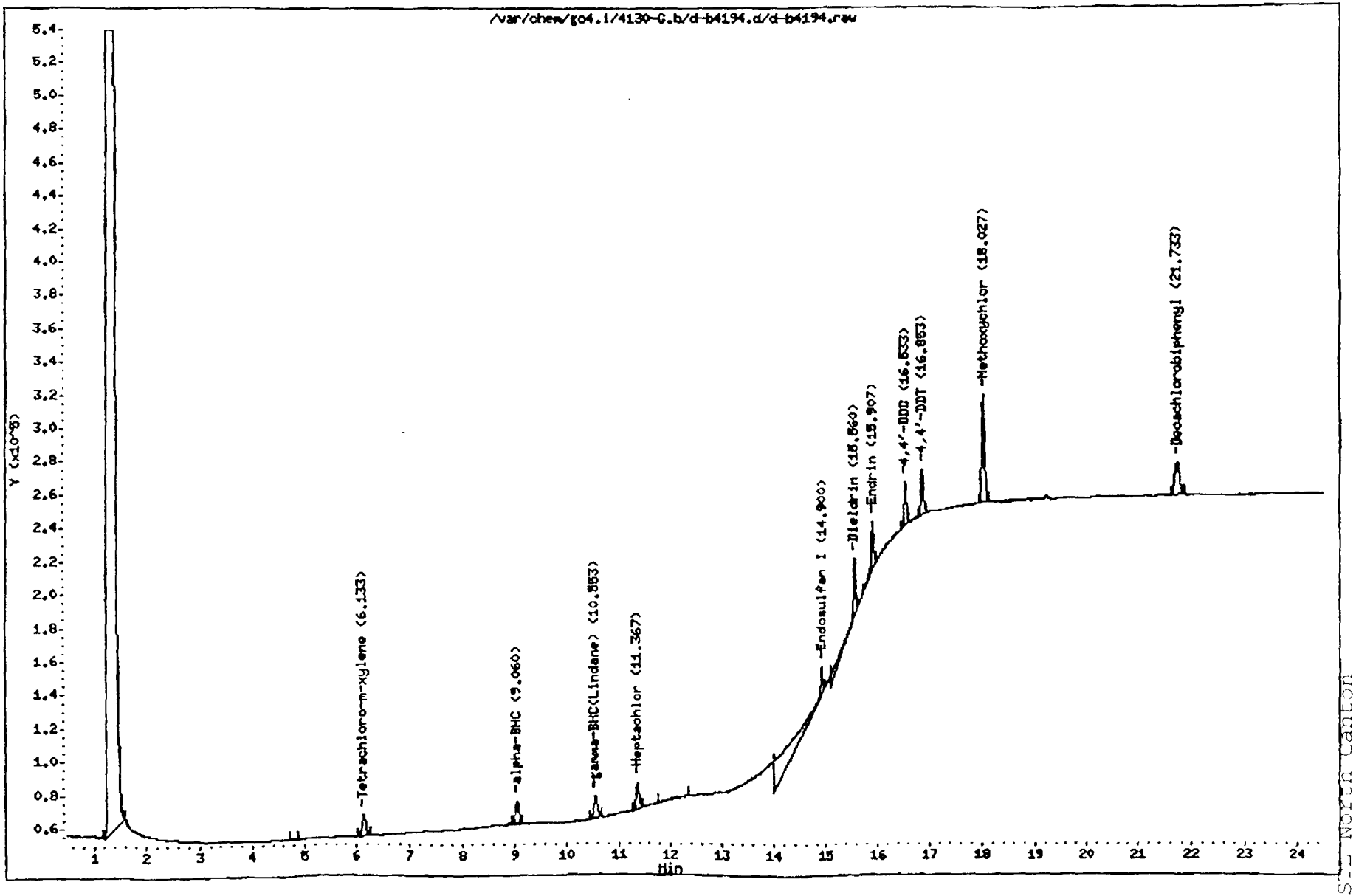
Data File: /var/chem/gc4.i/4130-G.b/d-b4194.d
Date : 13-JUL-2000 22:14
Client ID: INDALHA
Sample Info: INDALHA,4130-G.b,,8-INDA.sub,,1,1

Column phase: DB1701

Page 1

Instrument: gc4.i

Operator: 01891
Column diameter: 0.53



STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-b4195.d
Lab Smp Id: INDBLHA Client Smp ID: INDBLHA
Inj Date : 13-JUL-2000 22:41
Operator : 01891 Inst ID: gc4.i
Smp Info : INDBLHA,4130-G.b,,9-INDB.sub,,1,1
Misc Info : 190-82-4
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4B.m
Meth Date : 14-Jul-2000 10:49 matkol Quant Type: ESTD
Cal Date : 13-JUL-2000 23:37 Cal File: d-b4197.raw
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 9-INDB.sub
Target Version: 3.40 Sample Matrix: None

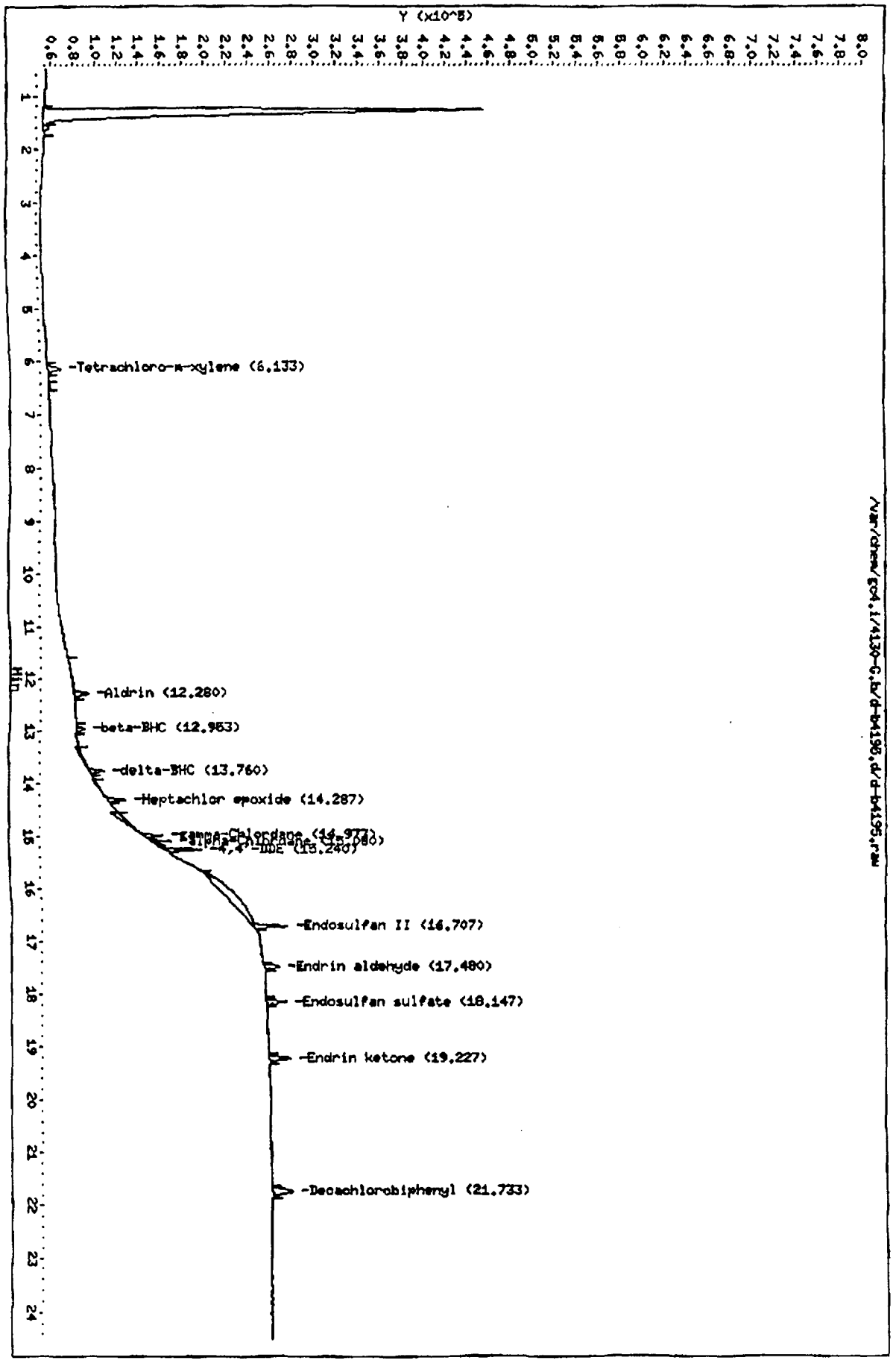
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.133	6.133	0.000	12236	0.00500	0.004496	80.00- 120.00	100.00
11 beta-BHC					CAS #: 319-85-7		
12.953	12.952	0.001	30720	0.00500	0.004773	80.00- 120.00	100.00
12 delta-BHC					CAS #: 319-86-8		
13.760	13.760	0.000	12982	0.00500	0.004426	80.00- 120.00	100.00
10 Aldrin					CAS #: 309-00-2		
12.280	12.280	0.000	80600	0.00500	0.006411	80.00- 120.00	100.00
13 Heptachlor epoxide					CAS #: 1024-57-3		
14.287	14.288	-0.001	70826	0.00500	0.005854	80.00- 120.00	100.00
16 gamma-Chlordane					CAS #: 5103-74-2		
14.973	14.972	0.001	16345	0.00500	0.004861	80.00- 120.00	100.00
17 alpha-Chlordane					CAS #: 5103-71-9		
15.080	15.080	0.000	16431	0.00500	0.004766	80.00- 120.00	100.00
18 4,4'-DDE					CAS #: 72-55-9		
15.240	15.243	-0.003	34769	0.01000	0.009543	80.00- 120.00	100.00
24 Endosulfan II					CAS #: 33213-65-9		
16.707	16.708	-0.001	30568	0.01000	0.01029	80.00- 120.00	100.00

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
26 Endrin aldehyde					CAS #: 7421-93-4		
17.480	17.480	0.000	13067	0.01000	0.009357	80.00- 120.00	100.00
27 Endosulfan sulfate					CAS #: 1031-07-8		
18.147	18.146	-0.001	17813	0.01000	0.009365	80.00- 120.00	100.00
29 Endrin ketone					CAS #: 53494-70-5		
19.227	19.226	-0.001	19150	0.01000	0.009561	80.00- 120.00	100.00
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
21.733	21.735	-0.002	28162	0.01000	0.01769	80.00- 120.00	100.00

Data File: /var/chem/gc4.i/4130-G.b/d-b4195.d
Date : 13-JUL-2000 22:41
Client ID: INDBLHA
Sample Info: INDBLHA,4130-G.b,,9-INDB.sub,,1,1
Column phase: DB1701

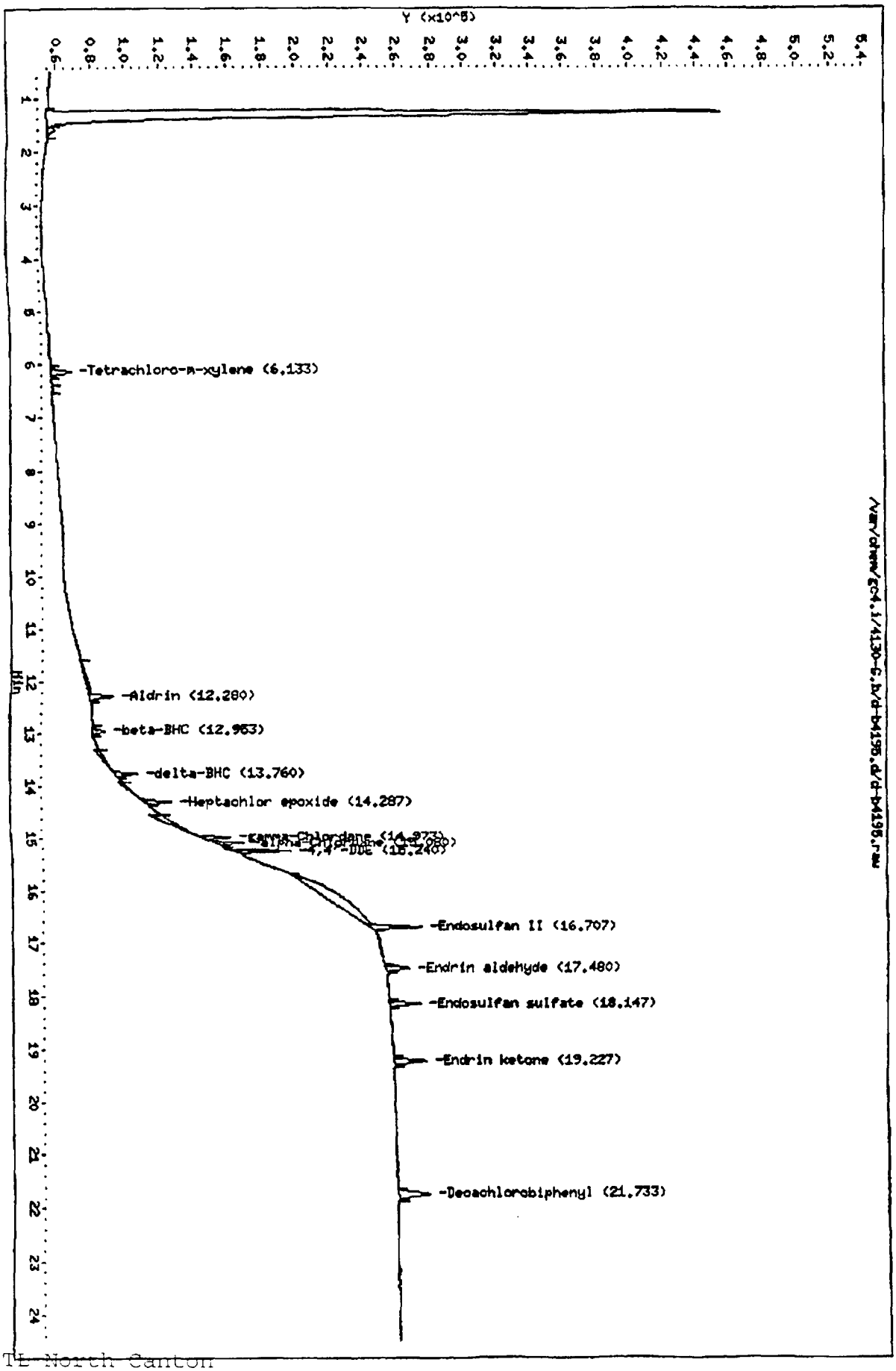
Instrument: gc4.i
Operator: 01891
Column diameter: 0.53

/var/chem/gc4.i/4130-G.b/d-b4198.d/d-b4195.raw



Data File: /var/chem/gc4.i/4130-G.b/d-b4195.d
Date : 13-JUL-2000 22:41
Client ID: INDBLHA
Sample Info: INDBLHA,4130-G.b,,9-INDB.sub,,1,1
Column phase: DB1701

Instrument: gc4.i
Operator: 01894
Column diameter: 0.53



Page 1

STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-b4196.d
Lab Smp Id: INDAMHA Client Smp ID: INDAMHA
Inj Date : 13-JUL-2000 23:09
Operator : 01891 Inst ID: gc4.i
Smp Info : INDAMHA,4130-G.b,,8-INDA.sub,,1,2
Misc Info : 190-82-2
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4B.m
Meth Date : 14-Jul-2000 10:49 matkol Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-b4199.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8-INDA.sub
Target Version: 3.40 Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.133	6.133	0.000	50654	0.02000	0.02000	80.00- 120.00	100.00
5 alpha-BHC					CAS #: 319-84-6		
9.067	9.065	0.002	65052	0.02000	0.02000	80.00- 120.00	100.00
6 gamma-BHC(Lindane)					CAS #: 58-89-9		
10.560	10.557	0.003	61140	0.02000	0.02000	80.00- 120.00	100.00
7 Heptachlor					CAS #: 76-44-8		
11.367	11.368	-0.001	290922	0.02000	0.02000	80.00- 120.00	100.00
16 Endosulfan I					CAS #: 959-98-8		
14.900	14.900	0.000	67649	0.02000	0.02000	80.00- 120.00	100.00
19 Dieldrin					CAS #: 60-57-1		
15.567	15.565	0.002	182544	0.04000	0.04000	80.00- 120.00	100.00
22 Endrin					CAS #: 72-20-8		
15.907	15.908	-0.001	119151	0.04000	0.04000	80.00- 120.00	100.00
23 4,4'-DDD					CAS #: 72-54-8		
16.533	16.532	0.001	111434	0.04000	0.04000	80.00- 120.00	100.00
25 4,4'-DDT					CAS #: 50-29-3		
16.853	16.852	0.001	113739	0.04000	0.04000	80.00- 120.00	100.00

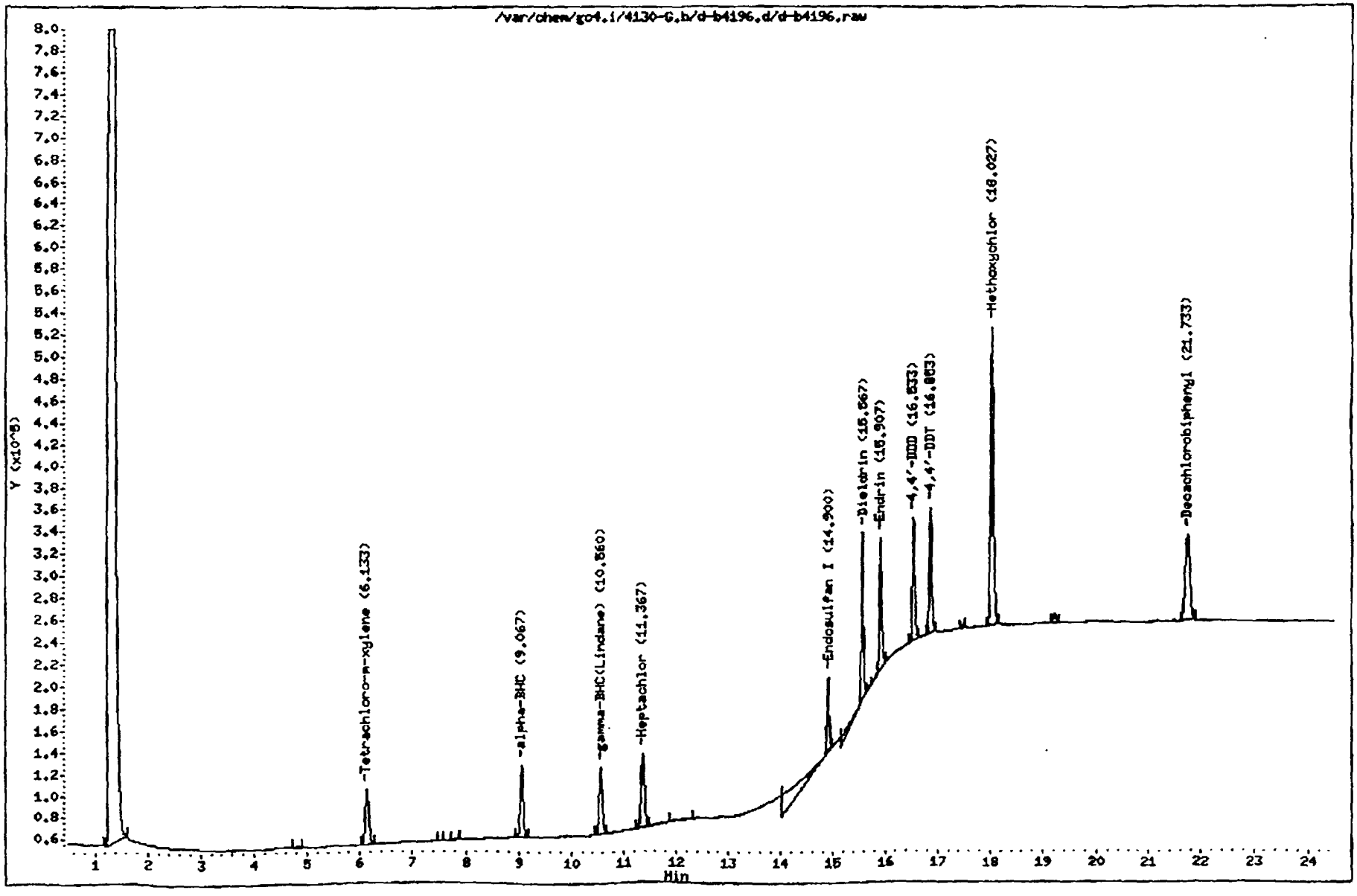
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
28 Methoxychlor					CAS #: 72-43-5		
18.027	18.035	-0.008	372283	0.20000	0.2000	80.00- 120.00	100.00
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
21.733	21.736	-0.002	78370	0.04000	0.04000	80.00- 120.00	100.00

Data File: /var/chem/gc4.i/4130-C.b/d-b4196.d
Date : 13-JUL-2000 23:09
Client ID: INDAHHA
Sample Info: INDAHHA,4130-C.b,,8-INDA.sub,,1,2

Column phase: DB1701

Instrument: gc4.i

Operator: 01891
Column diameter: 0.53

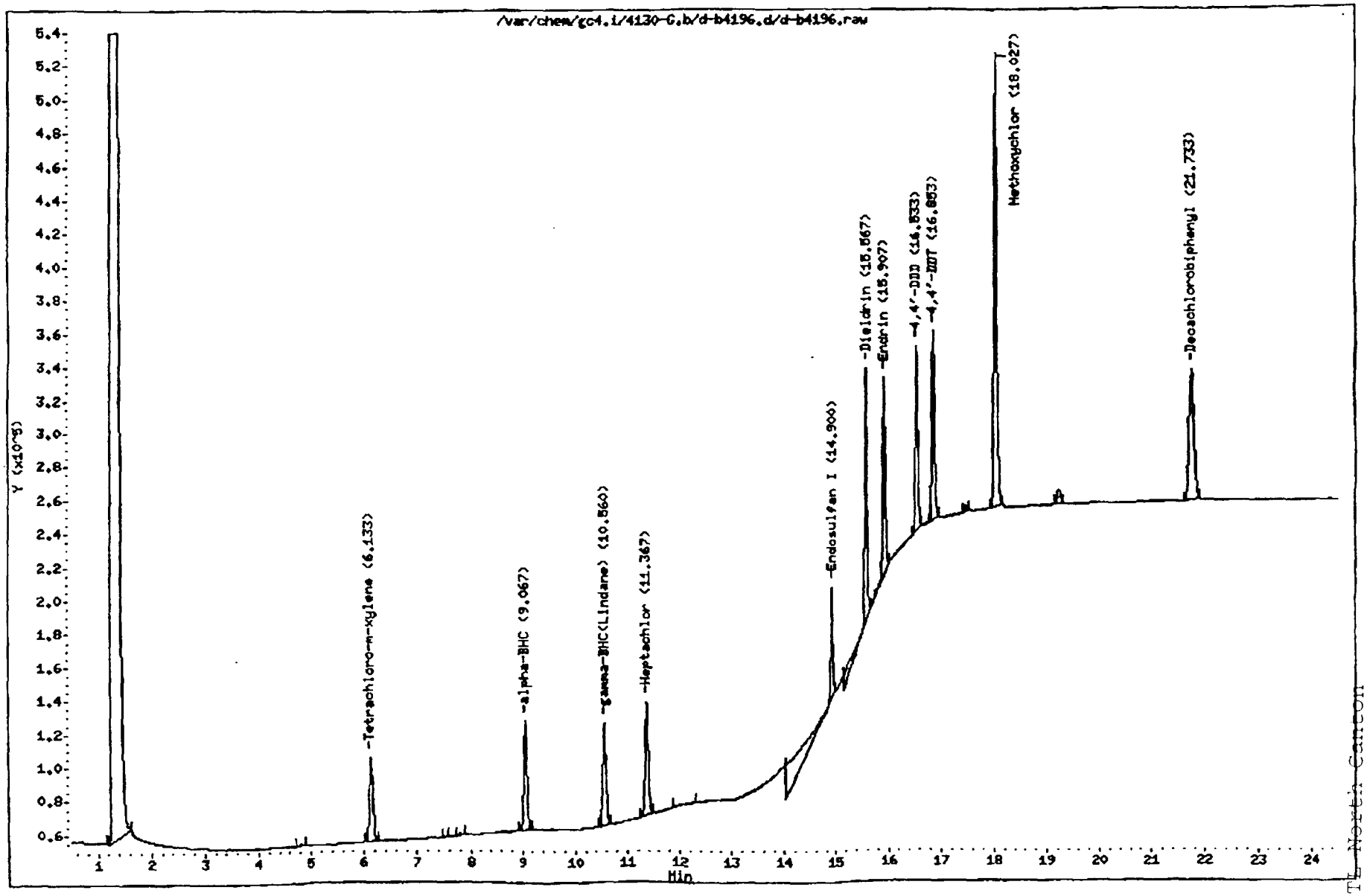


Data File: /var/chem/gc4.i/4130-G.b/d-b4196.d
Date : 13-JUL-2000 23:09
Client ID: INDAHHA
Sample Info: INDAHHA,4130-G.b,,8-INDA.sub,,1,2

Column phase: DB1701

Instrument: gc4.i

Operator: 01891
Column diameter: 0.53



STL-PITTSBURGH

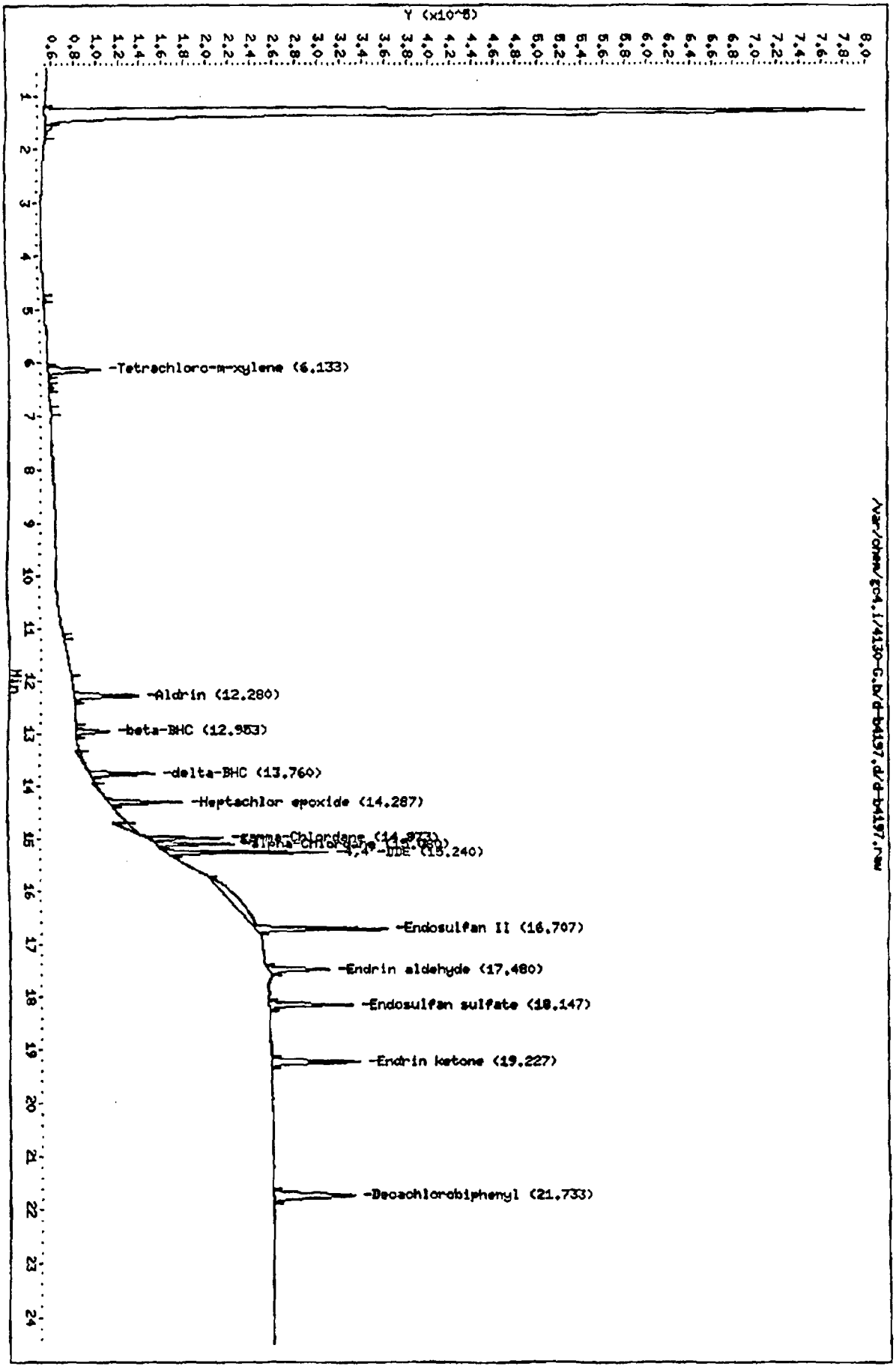
Data file : /var/chem/gc4.i/4130-G.b/d-b4197.d
Lab Smp Id: INDBMHA Client Smp ID: INDBMHA
Inj Date : 13-JUL-2000 23:37
Operator : 01891 Inst ID: gc4.i
Smp Info : INDBMHA,4130-G.b,,9-INDB.sub,,1,2
Misc Info : 190-82-5
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4B.m
Meth Date : 14-Jul-2000 10:49 matkol Quant Type: ESTD
Cal Date : 13-JUL-2000 23:37 Cal File: d-b4197.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 9-INDB.sub
Target Version: 3.40 Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
# 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.133	6.133	0.000	48268	0.02000	0.02000	80.00- 120.00	100.00
11 beta-BHC					CAS #: 319-85-7		
12.953	12.952	0.001	128725	0.02000	0.02000	80.00- 120.00	100.00
12 delta-BHC					CAS #: 319-86-8		
13.760	13.760	0.000	58659	0.02000	0.02000	80.00- 120.00	100.00
10 Aldrin					CAS #: 309-00-2		
12.280	12.280	0.000	251436	0.02000	0.02000	80.00- 120.00	100.00
13 Heptachlor epoxide					CAS #: 1024-57-3		
14.287	14.288	-0.001	241985	0.02000	0.02000	80.00- 120.00	100.00
16 gamma-Chlordane					CAS #: 5103-74-2		
14.973	14.972	0.001	67252	0.02000	0.02000	80.00- 120.00	100.00
17 alpha-Chlordane					CAS #: 5103-71-9		
15.080	15.080	0.000	68954	0.02000	0.02000	80.00- 120.00	100.00
18 4,4'-DDE					CAS #: 72-55-9		
15.240	15.243	-0.003	145738	0.04000	0.04000	80.00- 120.00	100.00
24 Endosulfan II					CAS #: 33213-65-9		
16.707	16.708	-0.001	118841	0.04000	0.04000	80.00- 120.00	100.00

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
26 Endrin aldehyde					CAS #: 7421-93-4		
17.480	17.460	0.000	55659	0.04000	0.04000	80.00- 120.00	100.00
27 Endosulfan sulfate					CAS #: 1031-07-8		
18.147	18.148	-0.001	76084	0.04000	0.04000	80.00- 120.00	100.00
29 Endrin ketone					CAS #: 53494-70-5		
19.227	19.228	-0.001	80113	0.04000	0.04000	80.00- 120.00	100.00
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
21.733	21.735	-0.002	72817	0.04000	0.04000	80.00- 120.00	100.00

Data File: /var/chem/gc4.i/4130-G.b/d-b4197.d
Date : 13-JUL-2000 23:37
Client ID: INDB##A
Sample Info: INDB##A,4130-G.b,9-INDB.sub,1,2
Column phase: DB1701

Instrument: gc4.i
Operator: 01891
Column diameter: 0.53



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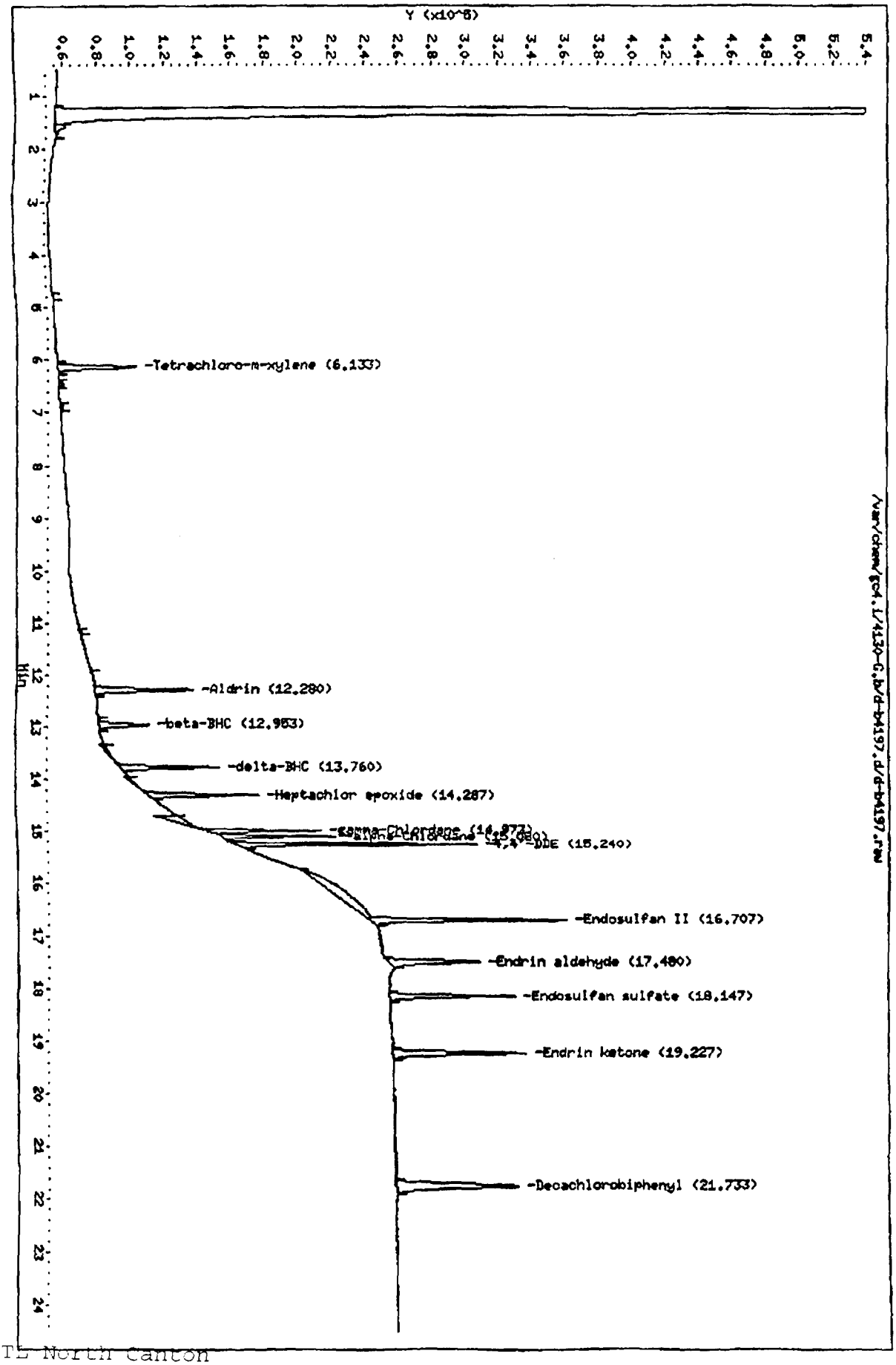
Data File: /var/chem/gc4.i/4130-G.b/d-b4197.d
Date : 13-JUL-2000 23:37
Client ID: INDB##W
Sample Info: INDB##W,4130-G.b,,9-INDB.sub,,1,2
Column phase: DB1701

Instrument: gc4.i
Operator: 01891
Column diameter: 0.53



Page 1

STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-b4198.d
Lab Smp Id: INDAHHA Client Smp ID: INDAHHA
Inj Date : 14-JUL-2000 00:04
Operator : 01891 Inst ID: gc4.i
Smp Info : INDAHHA,4130-G.b,,8-INDA.sub,,1,3
Misc Info : 190-82-3
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4B.m
Meth Date : 14-Jul-2000 10:49 matkol Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-b4199.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8-INDA.sub
Target Version: 3.40 Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.133	6.133	0.000	195291	0.08000	0.07711	80.00- 120.00	100.00
5 alpha-BHC					CAS #: 319-84-6		
9.067	9.065	0.002	314484	0.08000	0.09663	80.00- 120.00	100.00(A)
6 gamma-BHC(Lindane)					CAS #: 58-89-9		
10.560	10.557	0.002	281080	0.08000	0.09195	80.00- 120.00	100.00(A)
7 Heptachlor					CAS #: 76-44-8		
11.367	11.368	-0.001	1307160	0.08000	0.08986	80.00- 120.00	100.00(A)
15 Endosulfan I					CAS #: 959-98-8		
14.900	14.900	0.000	285160	0.08000	0.08430	80.00- 120.00	100.00(A)
19 Dieldrin					CAS #: 60-57-1		
15.567	15.565	0.002	651503	0.16000	0.1708	80.00- 120.00	100.00(A)
22 Endrin					CAS #: 72-20-8		
15.907	15.908	-0.001	489134	0.16000	0.1642	80.00- 120.00	100.00(A)
23 4,4'-DDD					CAS #: 72-54-8		
16.533	16.532	0.001	462042	0.16000	0.1658	80.00- 120.00	100.00(A)
25 4,4'-DDT					CAS #: 50-29-3		
16.852	16.852	0.001	477088	0.16000	0.1678	80.00- 120.00	100.00(A)

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
28 Methoxychlor					CAS #: 72-43-5		
18.047	18.035	0.012	744633	0.80000	0.5470	80.00- 120.00	100.00
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
21.740	21.735	0.005	306112	0.16000	0.1562	80.00- 120.00	100.00

QC Flag Legend

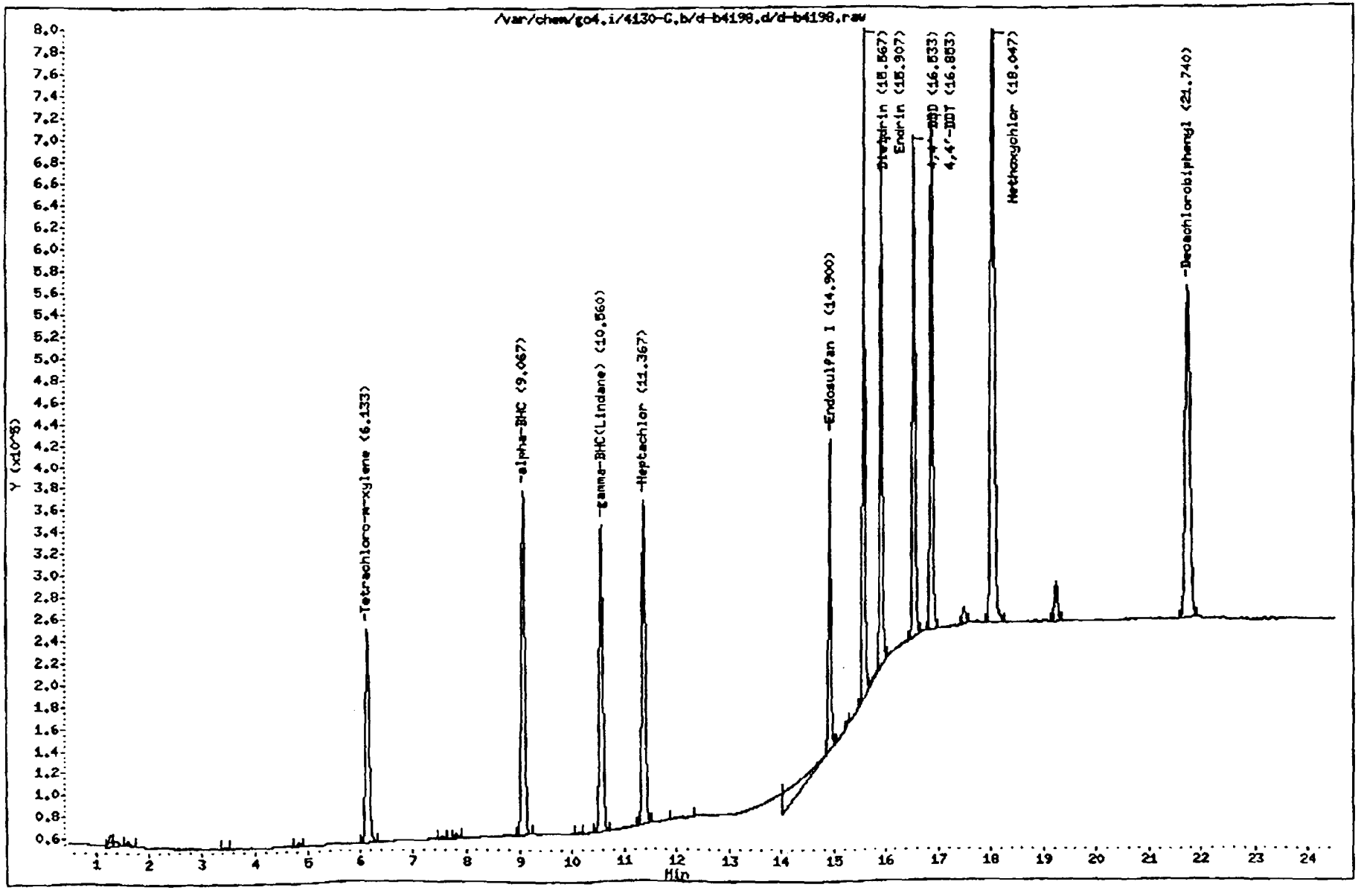
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /var/chem/gc4.i/4130-G.b/d-b4198.d
Date : 14-JUL-2000 00:04
Client ID: INDAHHA
Sample Info: INDAHHA,4130-G.b,,8-INDA.sub,,1,3

Column phase: DB1701

Instrument: gc4.i

Operator: 01891
Column diameter: 0.53

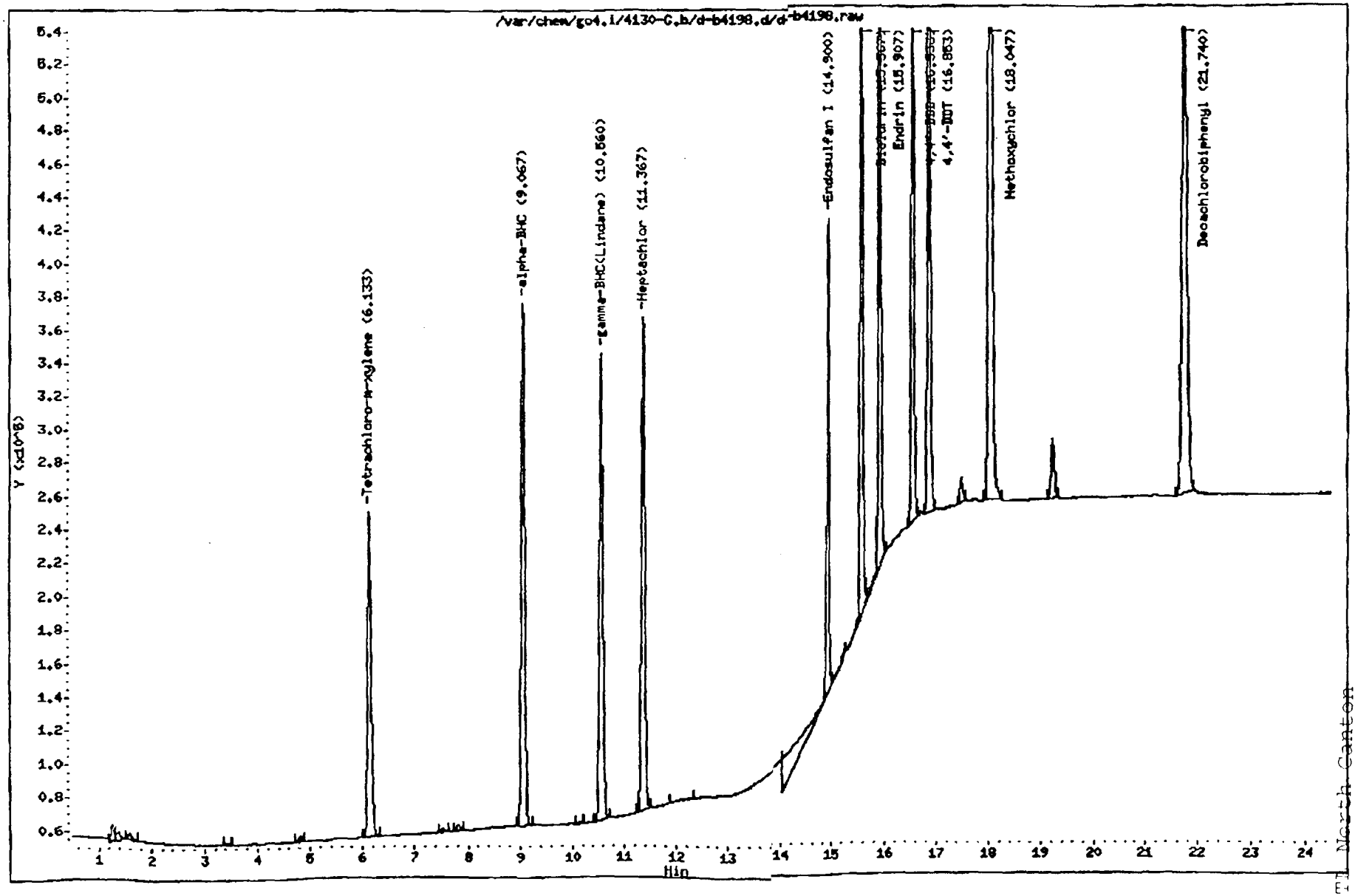


Data File: /var/chem/go4.i/4130-C.b/d-b4198.d
Date : 14-JUL-2000 00:04
Client ID: INDAHHA
Sample Info: INDAHHA,4130-C.b,,8-INDA.sub,,1,3

Column phase: DB1701

Instrument: go4.i

Operator: 01891
Column diameter: 0.53



STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-b4199.d
Lab Smp Id: INDBHHA Client Smp ID: INDBHHA
Inj Date : 14-JUL-2000 00:32
Operator : 01891 Inst ID: gc4.i
Smp Info : INDBHHA,4130-G.b,,9-INDB.sub,,1,3
Misc Info : 190-82-6
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4B.m
Meth Date : 14-Jul-2000 10:49 matkol Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-b4199.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 9-INDB.sub
Target Version: 3.40 Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.133	6.133	0.000	184821	0.08000	0.07642	80.00- 120.00	100.00
11 beta-BHC					CAS #: 319-85-7		
12.953	12.952	0.001	534082	0.08000	0.08298	80.00- 120.00	100.00(A)
12 delta-BHC					CAS #: 319-86-8		
13.760	13.760	0.000	271924	0.08000	0.09271	80.00- 120.00	100.00(A)
10 Aldrin					CAS #: 309-00-2		
12.280	12.280	0.000	1124672	0.08000	0.08946	80.00- 120.00	100.00(A)
13 Heptachlor epoxide					CAS #: 1024-57-3		
14.287	14.288	-0.001	995498	0.08000	0.08228	80.00- 120.00	100.00(A)
16 gamma-Chlordane					CAS #: 5103-74-2		
14.973	14.972	0.001	286228	0.08000	0.08512	80.00- 120.00	100.00(A)
17 alpha-Chlordane					CAS #: 5103-71-9		
15.080	15.080	0.000	282474	0.08000	0.08193	80.00- 120.00	100.00(A)
18 4,4'-DDE					CAS #: 72-55-9		
15.247	15.243	0.004	582284	0.16000	0.1598	80.00- 120.00	100.00
24 Endosulfan II					CAS #: 33213-65-9		
16.707	16.708	-0.001	480276	0.16000	0.1616	80.00- 120.00	100.00(A)

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
26 Endrin aldehyde					CAS #: 7421-93-4		
17.480	17.480	0.000	232788	0.16000	0.1667	80.00- 120.00	100.00(A)
27 Endosulfan sulfate					CAS #: 1031-07-8		
18.147	18.148	-0.001	326250	0.16000	0.1716	80.00- 120.00	100.00(A)
29 Endrin ketone					CAS #: 53494-70-5		
19.227	19.228	-0.001	327882	0.16000	0.1637	80.00- 120.00	100.00(A)
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
21.740	21.735	0.005	280858	0.16000	0.1543	80.00- 120.00	100.00

QC Flag Legend

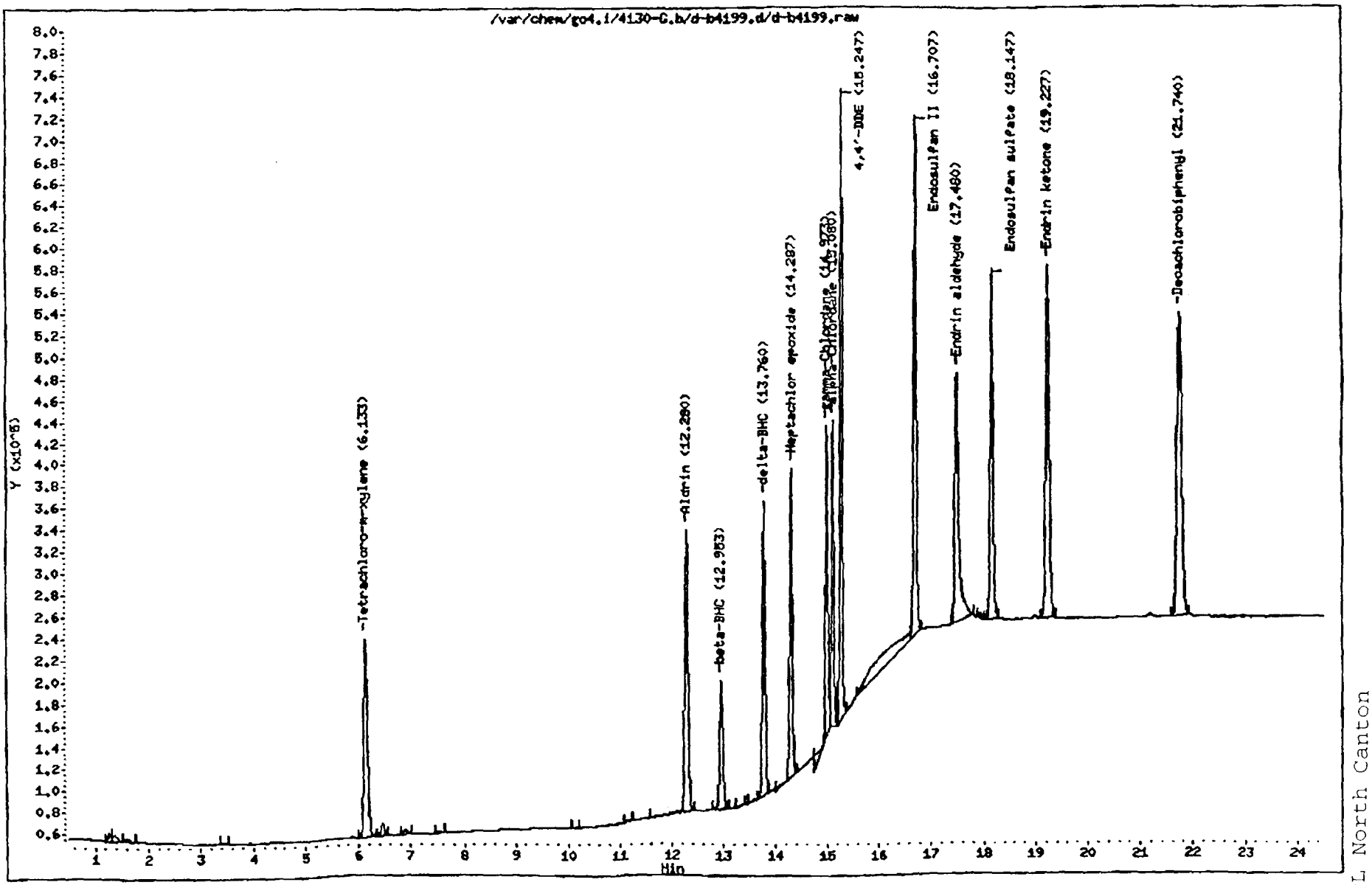
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /var/chem/gc4.i/4130-G.b/d-b4199.d
Date : 14-JUL-2000 00:32
Client ID: INDBHHA
Sample Info: INDBHHA,4130-G.b,,9-INDB.sub,,1,3

Column phase: DB1701

Instrument: gc4.i

Operator: 01891
Column diameter: 0.53

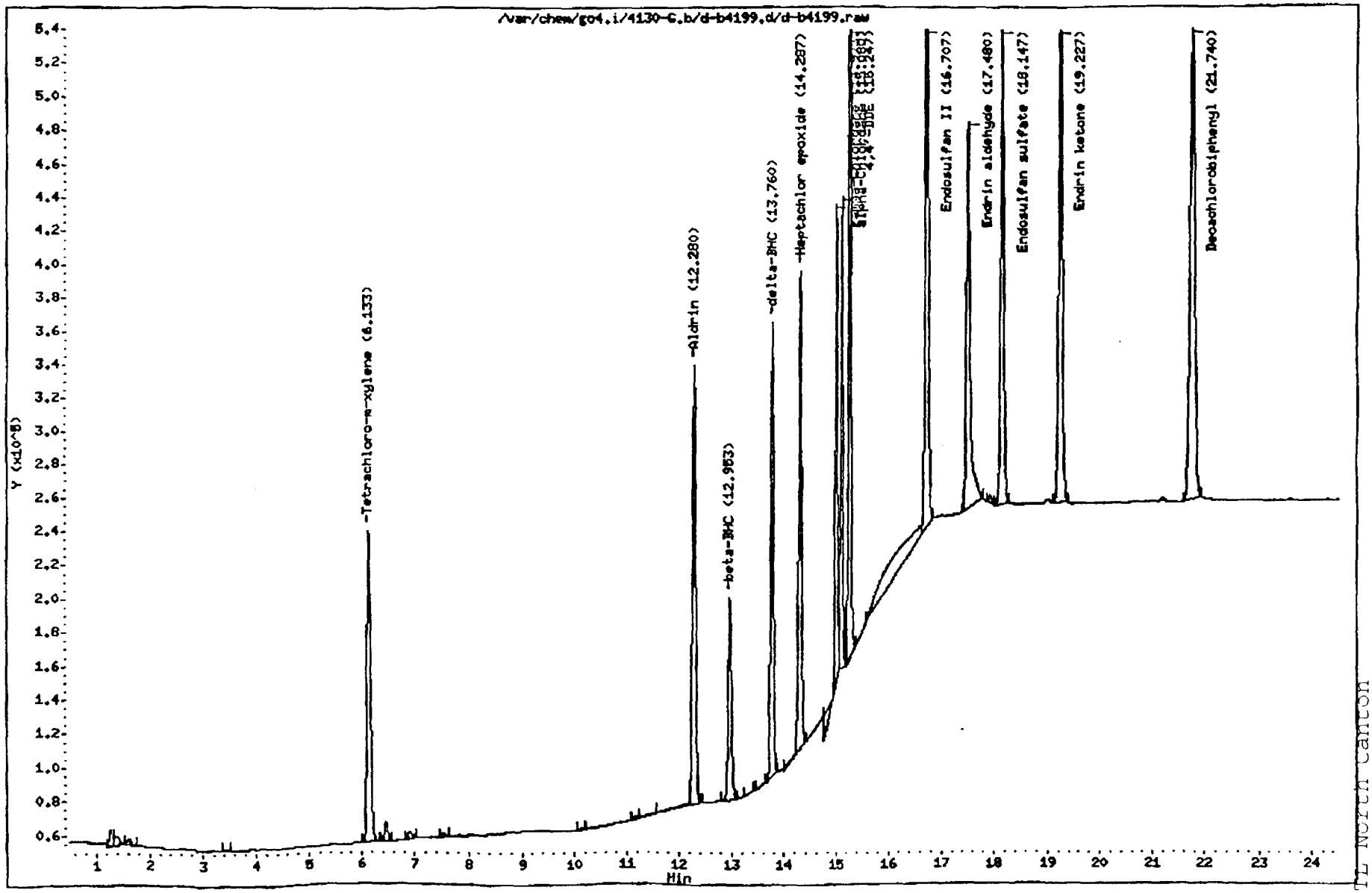


Data File: /var/chem/go4.i/4130-G.b/d-b4199.d
Date : 14-JUL-2000 00:32
Client ID: INDBHHA
Sample Info: INDBHHA,4130-G.b,,9-INDB.sub,,1,3

Column phase: DB1701

Instrument: go4.i

Operator: 01891
Column diameter: 0.53



STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-b4201.d
Lab Smp Id: PEMHB Client Smp ID: PEMHB
Inj Date : 14-JUL-2000 01:28
Operator : 01891 Inst ID: gc4.i
Smp Info : PEMHB,4130-G.b,,PEM.sub,,3,
Misc Info : 190-87-13
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4B.m
Meth Date : 14-Jul-2000 10:49 matkol Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-b4199.d
Als bottle: 1 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PEM.sub
Target Version: 3.40 Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.133	6.133	0.000	45911	0.01813	0.01813	80.00- 120.00	100.00(R)
5 alpha-BHC					CAS #: 319-84-6		
9.067	9.065	0.002	26566	0.00817	0.008168	80.00- 120.00	100.00
6 gamma-BHC(Lindane)					CAS #: 58-89-9		
10.560	10.557	0.003	25992	0.00850	0.008502	80.00- 120.00	100.00
11 beta-BHC					CAS #: 319-85-7		
12.952	12.952	0.001	58355	0.00907	0.009067	80.00- 120.00	100.00
16 4,4'-DDE					CAS #: 72-55-9		
15.293	15.243	0.050	0			80.00- 120.00	0.00(M)
22 Endrin					CAS #: 72-20-8		
15.907	15.906	-0.001	145540	0.04886	0.04886	80.00- 120.00	100.00
23 4,4'-DDD					CAS #: 72-54-8		
16.560	16.532	0.028	1681	0.000603	0.0006024	80.00- 120.00	25.74(M)
25 4,4'-DDT					CAS #: 50-29-3		
16.853	16.852	0.001	265093	0.09323	0.09323	80.00- 120.00	100.00
26 Endrin aldehyde					CAS #: 7421-93-4		
17.487	17.480	0.007	2936	0.00210	0.002102	80.00- 120.00	30.47(M)

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ng)	TARGET RANGE	RATIO
28 Methoxychlor					CAS #: 72-43-5		
18.027	18.035	-0.008	303380	0.22284	0.2228	80.00- 120.00	100.00
29 Endrin ketone					CAS #: 53494-70-5		
19.233	19.228	0.005	4174	0.00208	0.002084	80.00- 120.00	24.42(M)
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
21.733	21.735	-0.002	36266	0.01800	0.01800	80.00- 120.00	100.00(R)

QC Flag Legend

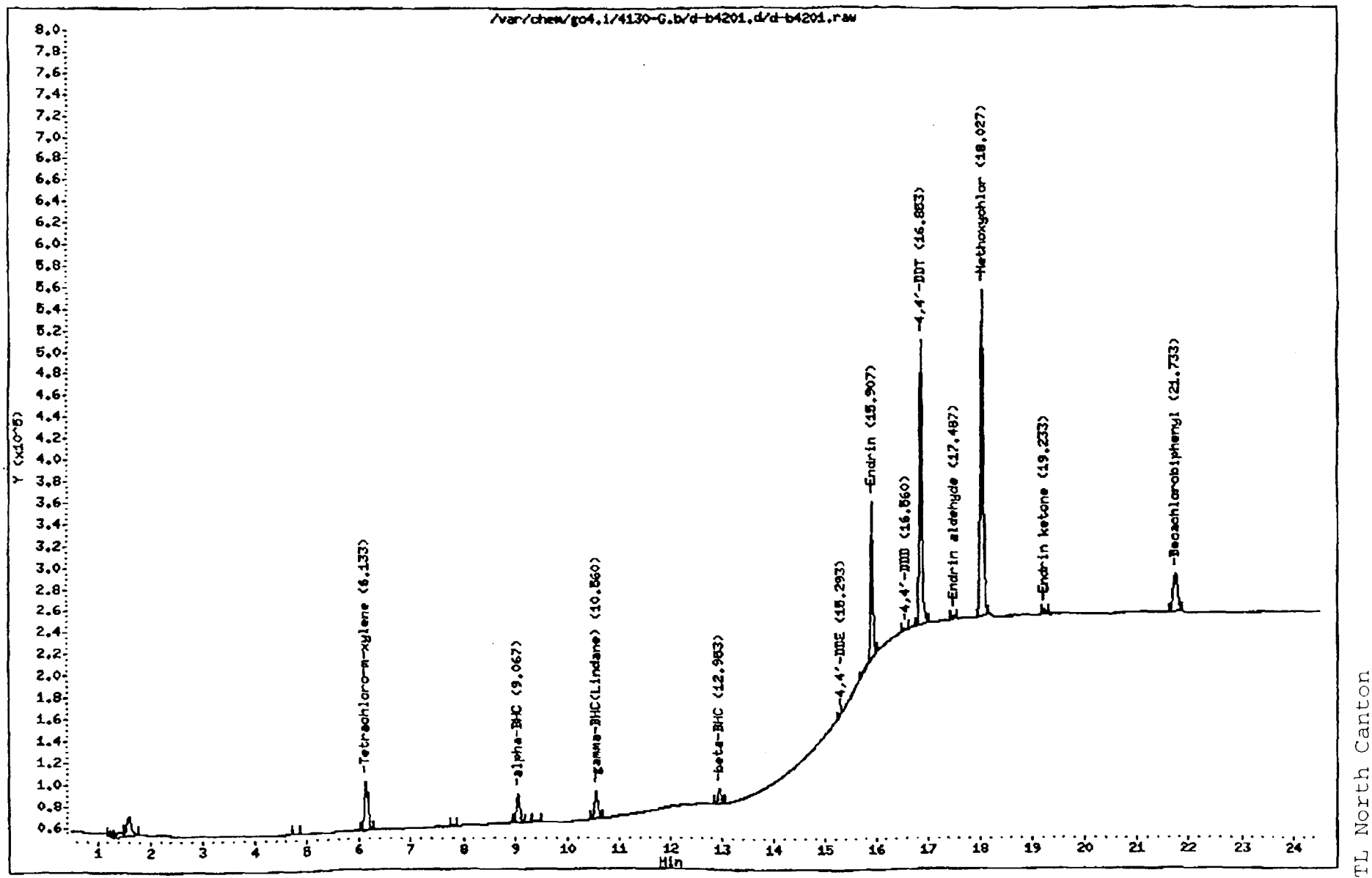
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: /var/chem/go4.i/4130-G.b/d-b4201.d
Date : 14-JUL-2000 01:28
Client ID: PEHHB
Sample Info: PEHHB,4130-G.b,,PEH.sub,,3,

Column phase: DB1701

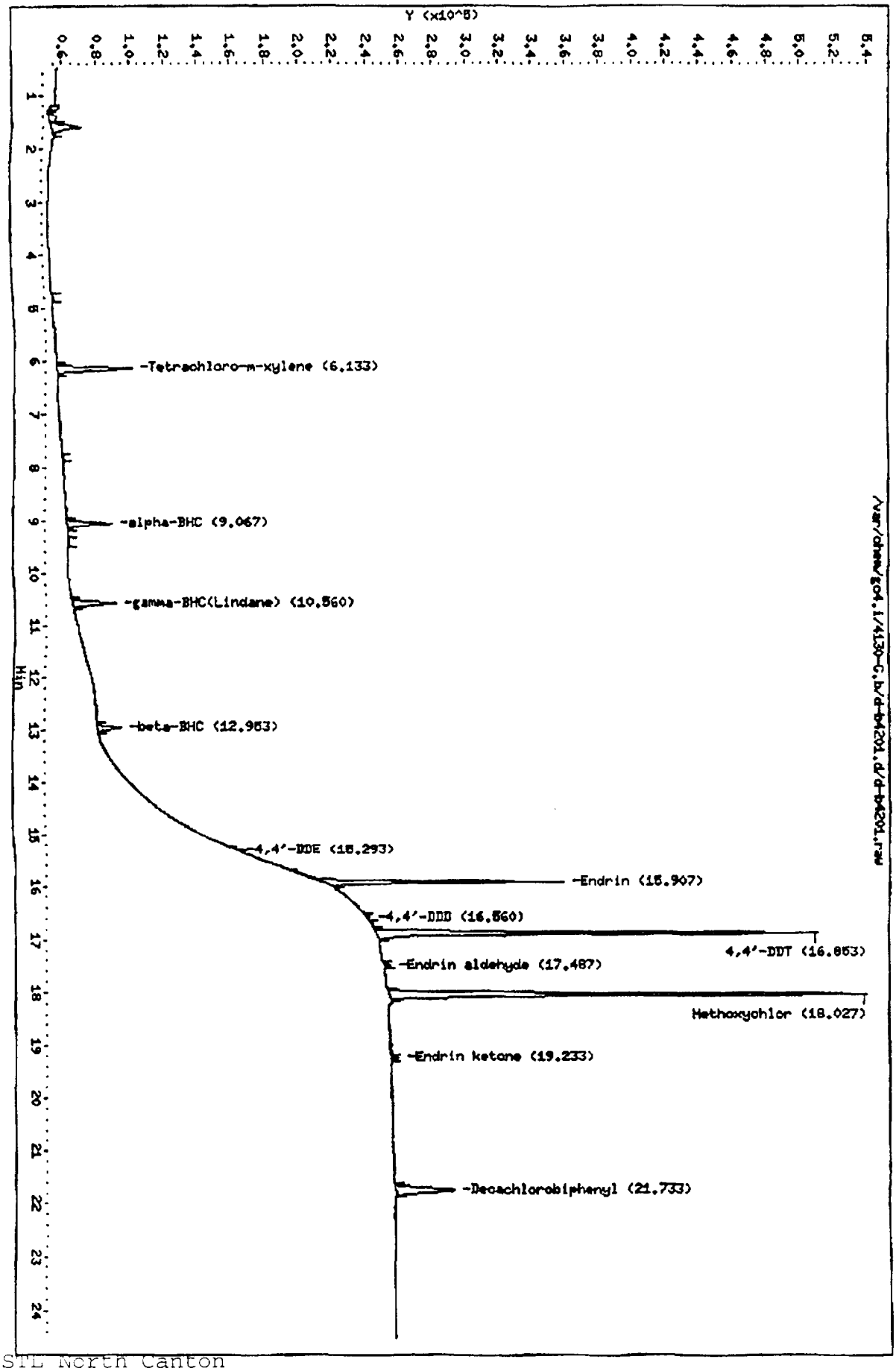
Instrument: go4.i

Operator: 01891
Column diameter: 0.53



Data File: /var/chem/gc4.i/4130-G.b/d-b4201.d
Date : 14-JUL-2000 01:28
Client ID: PEHHB
Sample Info: PEHHB,4130-G.b,,PEH,sub,,3,
Column phase: DB1701

Instrument: gc4.i
Operator: 01891
Column diameter: 0.53



Page 1

STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-b4222.d
Lab Smp Id: INDAMHB Client Smp ID: INDAMHB
Inj Date : 14-JUL-2000 11:09
Operator : 01891 Inst ID: gc4.i
Smp Info : INDAMHB,4130-G.b,,INDA.sub,,2,2
Misc Info : 190-82-2
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4B.m
Meth Date : 14-Jul-2000 12:14 g Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-b4199.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDA.sub
Target Version: 3.40 Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.133	6.133	0.000	48525	0.02000	0.01932	80.00- 120.00	100.00
5 alpha-BHC					CAS #: 319-84-6		
9.060	9.065	-0.005	65307	0.02000	0.02008	80.00- 120.00	100.00
6 gamma-BHC(Lindane)					CAS #: 58-89-9		
10.553	10.557	-0.004	60976	0.02000	0.01995	80.00- 120.00	100.00
7 Heptachlor					CAS #: 76-44-8		
11.360	11.368	-0.008	290904	0.02000	0.02000	80.00- 120.00	100.00
15 Endosulfan I					CAS #: 959-98-8		
14.893	14.900	-0.007	68979	0.02000	0.02039	80.00- 120.00	100.00
19 Dieldrin					CAS #: 60-57-1		
15.560	15.565	-0.005	156300	0.04000	0.04098	80.00- 120.00	100.00
22 Endrin					CAS #: 72-20-8		
15.907	15.908	-0.001	115718	0.04000	0.03918	80.00- 120.00	100.00
23 4,4'-DDD					CAS #: 72-54-8		
16.527	16.522	-0.005	112462	0.04000	0.04037	80.00- 120.00	100.00
25 4,4'-DDT					CAS #: 50-29-3		
16.847	16.852	-0.005	114260	0.04000	0.04018	80.00- 120.00	100.00

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
28 Methoxychlor					CAS #: 72-43-5		
18.020	18.035	-0.015	269094	0.20000	0.1976	80.00- 120.00	100.00
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
21.727	21.735	-0.008	78915	0.04000	0.04028	80.00- 120.00	100.00

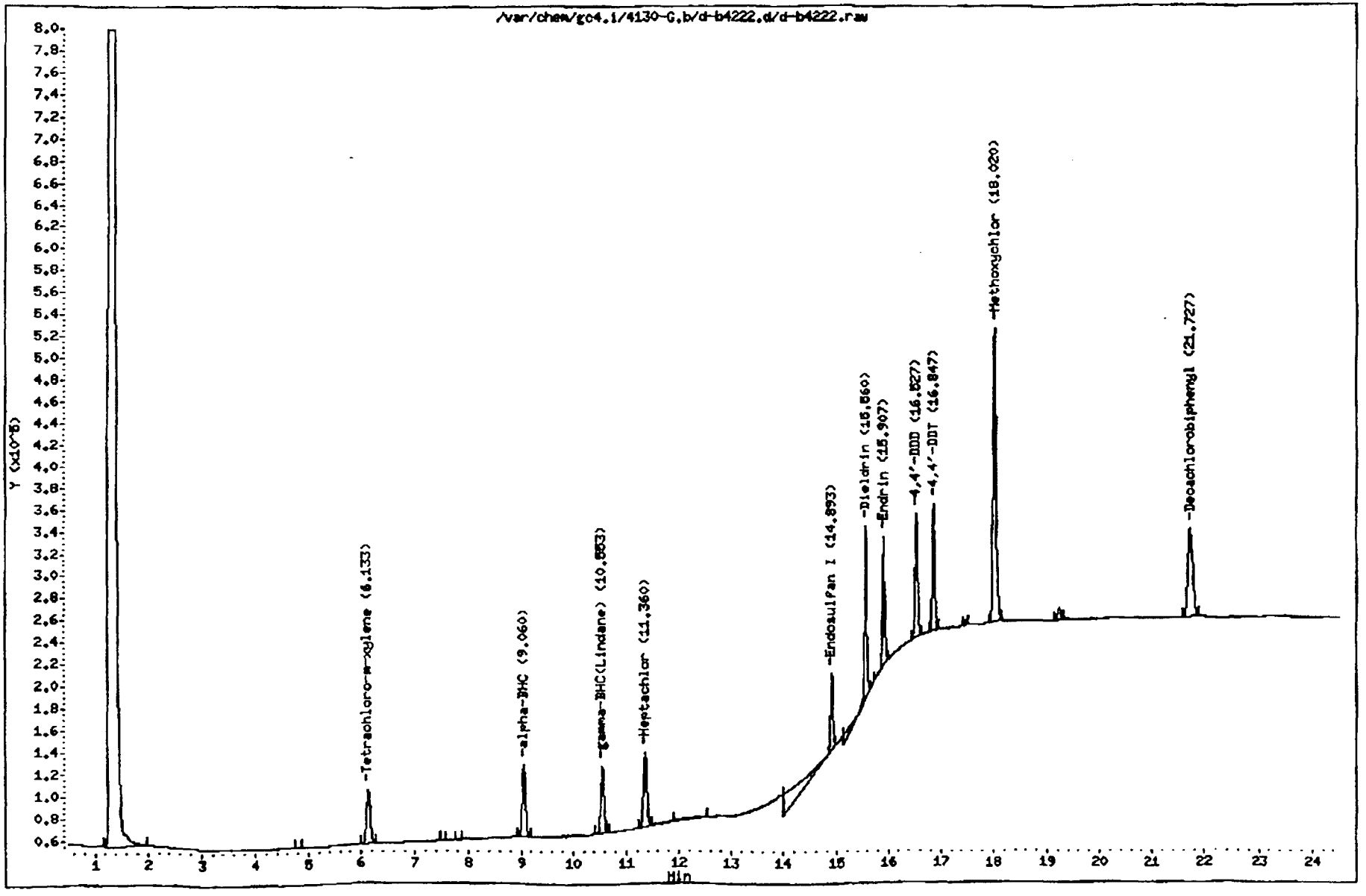
Data File: /var/chem/go4.i/4130-G.b/d-b4222.d
Date : 14-JUL-2000 11:09
Client ID: INDAMHB
Sample Info: INDAMHB,4130-G.b,,INDA.sub,,2,2

Column phase: DB1701

Page 3

Instrument: go4.i

Operator: 01891
Column diameter: 0.53

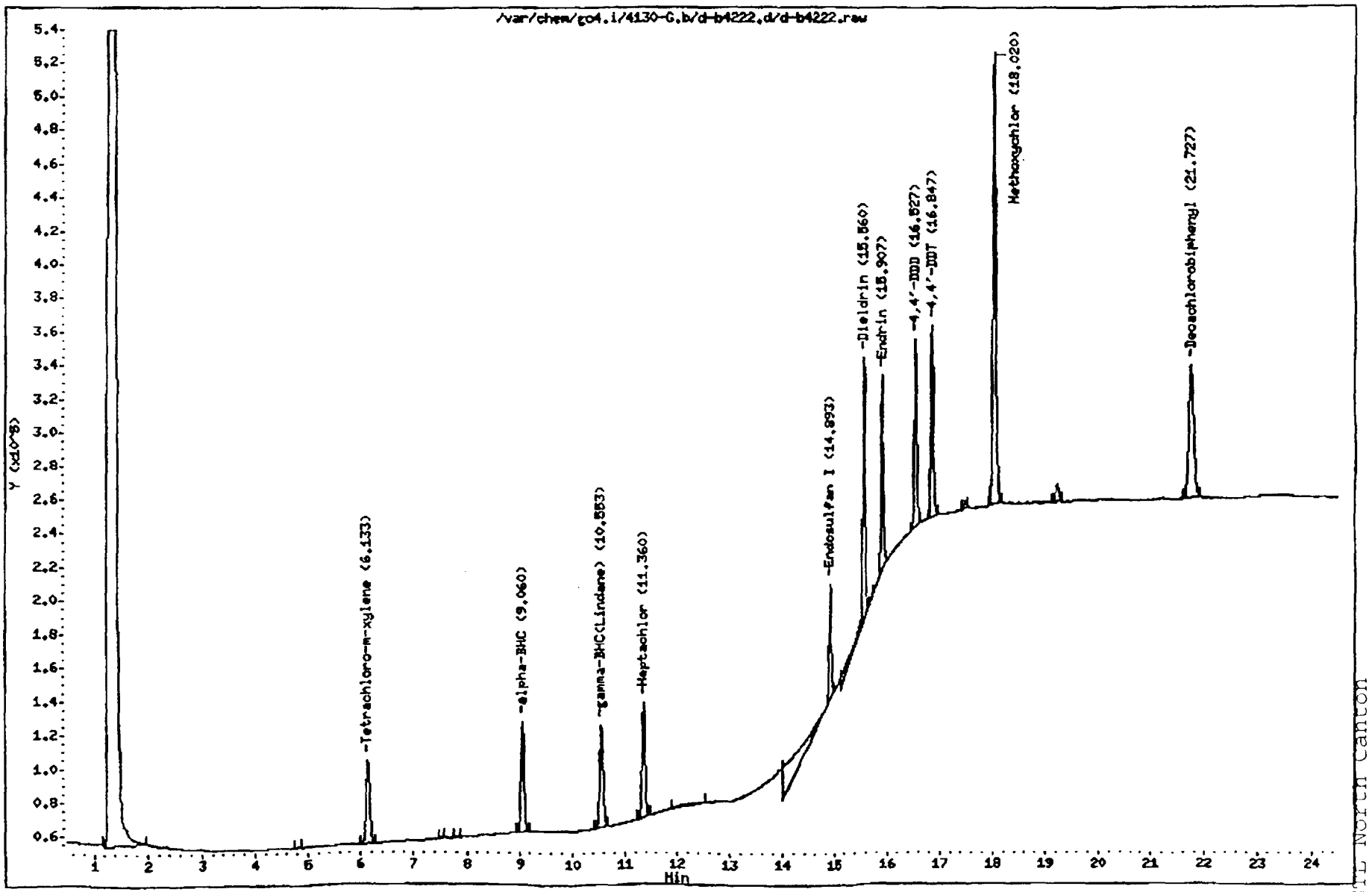


Data File: /var/chem/go4.i/4130-G.b/d-b4222.d
Date : 14-JUL-2000 11:09
Client ID: INDAMMB
Sample Info: INDAMMB,4130-G.b,,INDA,sub,,2,2

Column phase: DB1701

Instrument: go4.i

Operator: 01891
Column diameter: 0.53



STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-b4223.d
Lab Smp Id: INDBMHB Client Smp ID: INDBMHB
Inj Date : 14-JUL-2000 11:37
Operator : 01891 Inst ID: gc4.i
Smp Info : INDBMHB,4130-G.b,,INDB.sub,,2,2
Misc Info : 190-82-5
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4B.m
Meth Date : 14-Jul-2000 12:14 g Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-b4199.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDB.sub
Target Version: 3.40 Sample Matrix: None

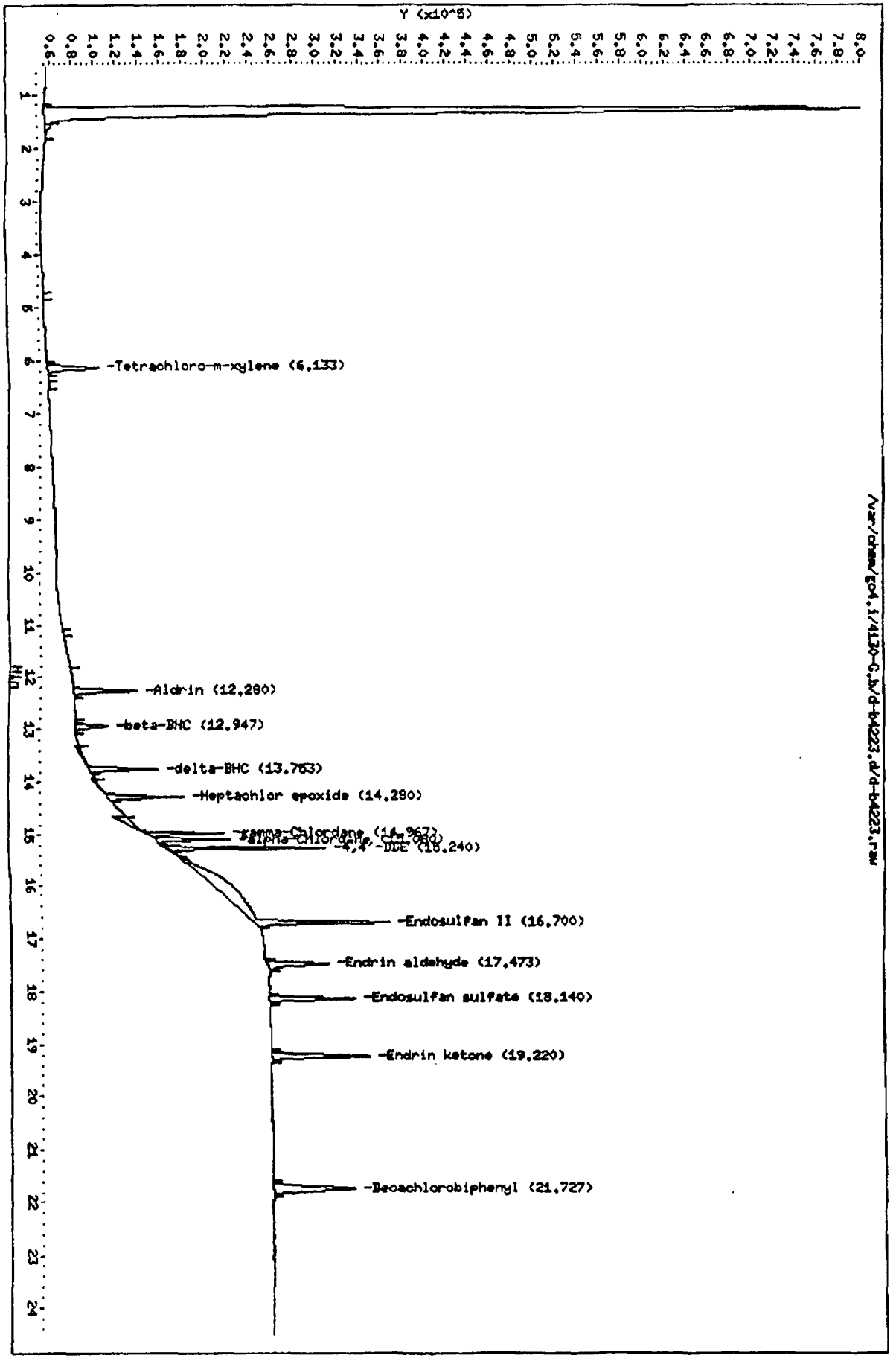
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.133	6.133	0.000	47507	0.02000	0.01876	80.00- 120.00	100.00
11 beta-BHC					CAS #: 319-85-7		
12.947	12.952	-0.005	128024	0.02000	0.01989	80.00- 120.00	100.00
12 delta-BHC					CAS #: 319-86-8		
13.753	13.760	-0.007	62542	0.02000	0.02132	80.00- 120.00	100.00
10 Aldrin					CAS #: 309-00-2		
12.280	12.280	0.000	256575	0.02000	0.02041	80.00- 120.00	100.00
13 Heptachlor epoxide					CAS #: 1024-57-3		
14.280	14.288	-0.008	244701	0.02000	0.02022	80.00- 120.00	100.00
16 gamma-Chlordane					CAS #: 5103-74-2		
14.967	14.972	-0.005	68673	0.02000	0.02042	80.00- 120.00	100.00
17 alpha-Chlordane					CAS #: 5103-71-9		
15.080	15.080	0.000	67883	0.02000	0.01969	80.00- 120.00	100.00
18 4,4'-DDE					CAS #: 72-55-9		
15.240	15.243	-0.003	144575	0.04000	0.04023	80.00- 120.00	100.00
24 Endosulfan II					CAS #: 33213-65-9		
16.700	16.708	-0.008	122969	0.04000	0.04116	80.00- 120.00	100.00

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
26 Endrin aldehyde					CAS #: 7421-93-4		
17.473	17.480	-0.007	64217	0.04000	0.04026	80.00- 120.00	100.00
27 Endosulfan sulfate					CAS #: 1031-07-8		
18.140	18.148	-0.008	78621	0.04000	0.04133	80.00- 120.00	100.00
29 Endrin ketone					CAS #: 53494-70-5		
19.220	19.228	-0.008	89178	0.04000	0.04453	80.00- 120.00	100.00
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
21.727	21.735	-0.008	73935	0.04000	0.03774	80.00- 120.00	100.00

Data File: /var/chem/gc4.i/4130-G.b/d-b4223.d
Date : 14-JUL-2000 11:37
Client ID: INDBHHB
Sample Info: INDBHHB,4130-G.b,,INDB,sub,2,2

Column phase: DB1701

Instrument: gc4.i
Operator: 01891
Column diameter: 0.53



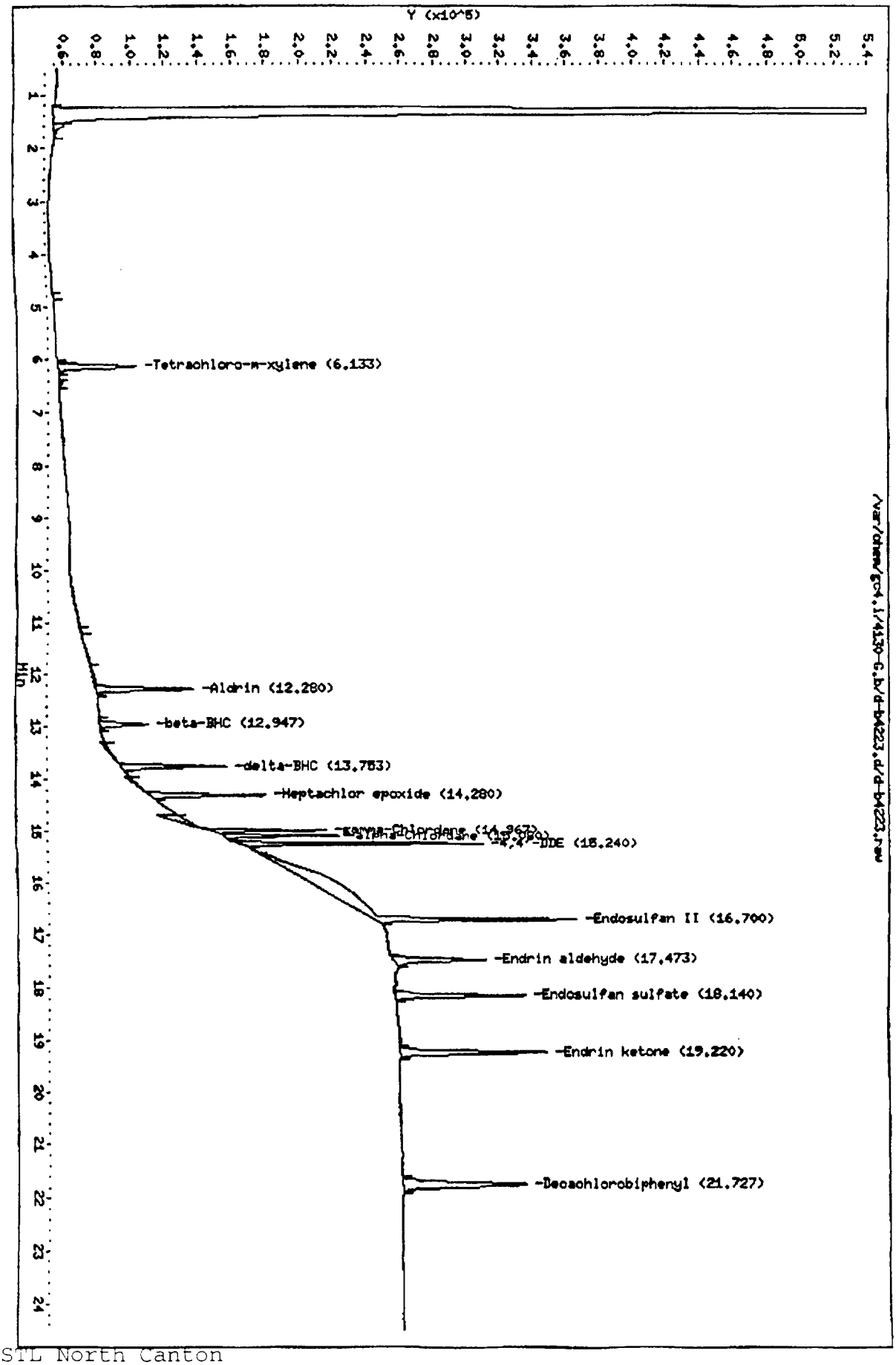
Page 3

Data File: /var/chem/gc4.i/4130-G.b/d-b4223.d
Date : 14-JUL-2000 11:37
Client ID: INDB4HB
Sample Info: INDB4HB,4130-G.b,,INDB.sub,,2,2

Column phase: DB1701

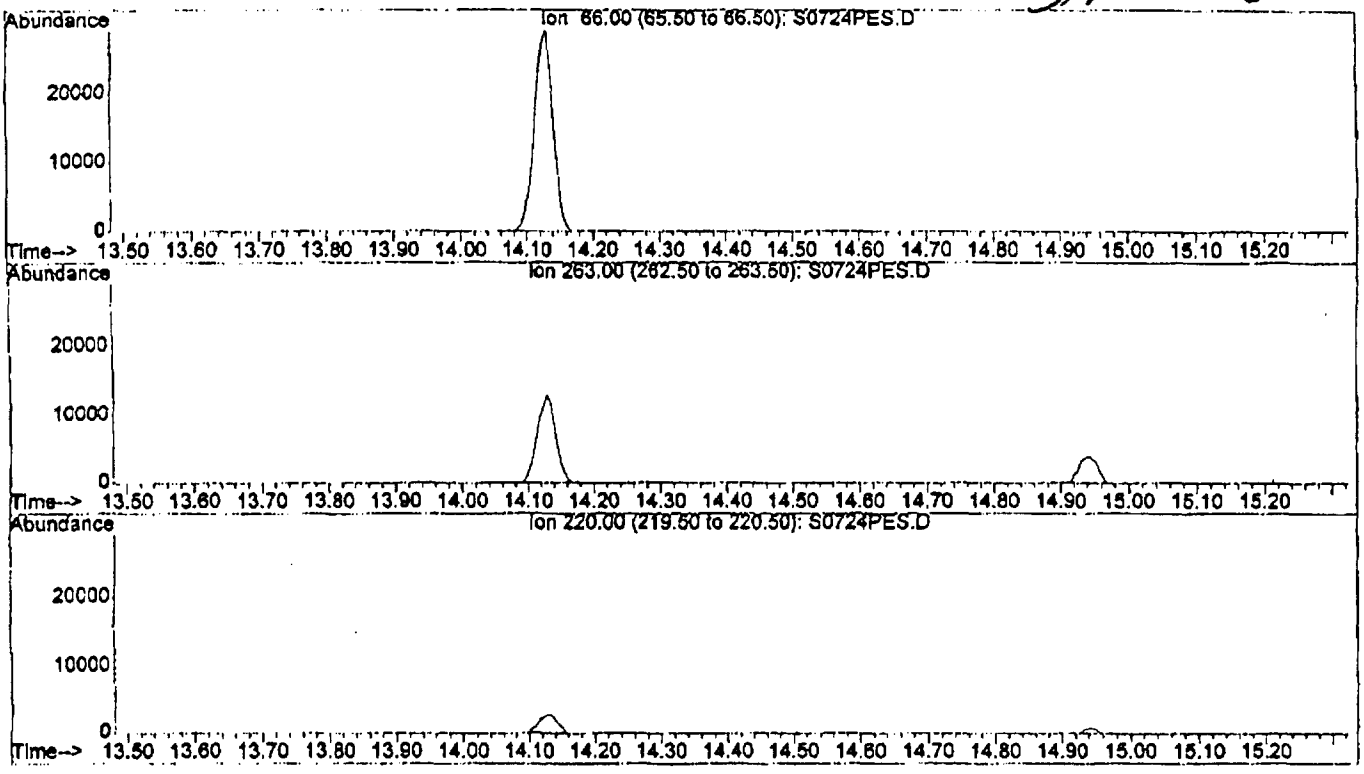
Instrument: gc4.i
Operator: 01891
Column diameter: 0.53

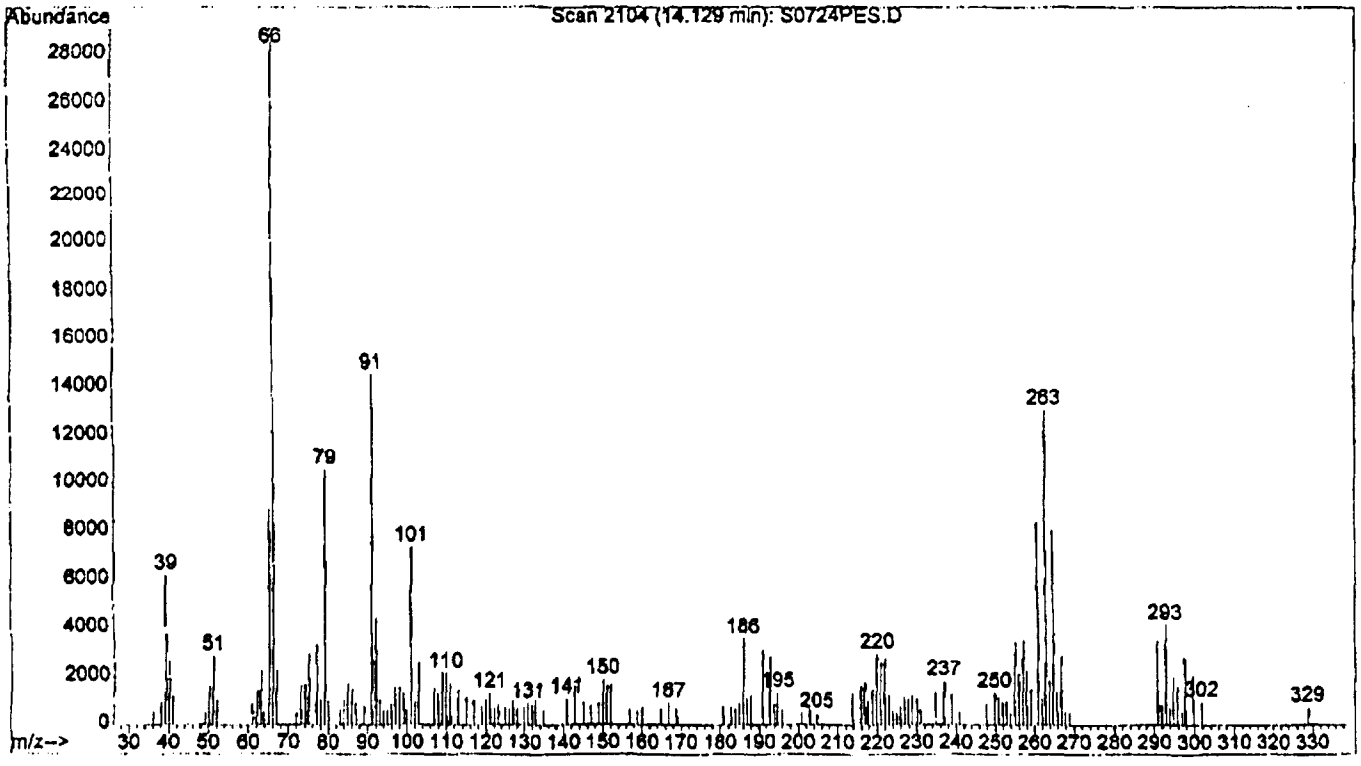
Page 1



File : D:\HPCHEM\1\DATA\S072400.B\S0724PES.D
Operator : 045183
Acquired : 24 Jul 2000 10:56 pm using AcqMethod LATE
Instrument : GC/MS Ins
Sample Name: pesticide std mix b
Misc Info : stdb,s072400.b,8270clp.m,1-8270l.sub
Vial Number: 100

STANDARD





STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-b4224.d
Lab Smp Id: CRQLB77
Inj Date : 14-JUL-2000 12:10
Operator : 01891 Inst ID: gc4.i
Smp Info : CRQLB77,4130-G.b,,all.sub,,,
Misc Info : GPCB7/7/00
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4B.m
Meth Date : 14-Jul-2000 12:27 matkol Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-b4199.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.40 Sample Matrix: WATER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	5000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
Compound Not Detected							
2 Aroclor-1221					CAS #: 11104-28-2		
Peaks not detected for Quant. or Qual. signal(s).							

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO

4 Aroclor-1232 CAS #: 11141-16-5

Peaks not detected for Quant. or Qual. signal(s).

---

5 alpha-BHC CAS #: 319-84-6

Compound Not Detected

---

3 Aroclor-1016 CAS #: 12674-11-2

Peaks not detected for Quant. or Qual. signal(s).

---

8 Aroclor-1242 CAS #: 53469-21-9

Peaks not detected for Quant. or Qual. signal(s).

---

6 gamma-BHC(Lindane) CAS #: 58-89-9

Compound Not Detected

---

9 Aroclor-1248 CAS #: 12672-29-6

Peaks not detected for Quant. or Qual. signal(s).

---

7 Heptachlor CAS #: 76-44-8

Compound Not Detected

---

10 Aldrin CAS #: 309-00-2

Compound Not Detected

---

11 beta-BHC CAS #: 319-85-7

Compound Not Detected

---

12 delta-BHC CAS #: 319-86-8

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO

13 Heptachlor epoxide CAS #: 1024-57-3

Compound Not Detected

---

14 Aroclor-1254 CAS #: 11097-69-1

Peaks not detected for Quant. or Qual. signal(s).

---

15 Endosulfan I CAS #: 959-98-8

Compound Not Detected

---

16 gamma-Chlordane CAS #: 5103-74-2

Compound Not Detected

---

17 alpha-Chlordane CAS #: 5103-71-9

Compound Not Detected

---

18 4,4'-DDE CAS #: 72-55-9

Compound Not Detected

---

19 Dieldrin CAS #: 60-57-1

Compound Not Detected

---

21 Aroclor-1260 CAS #: 11096-82-5

Peaks not detected for Quant. or Qual. signal(s).

---

22 Endrin CAS #: 72-20-8

Compound Not Detected

---

20 Toxaphene CAS #: 8001-35-2

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO

23 4,4'-DDD CAS #: 72-54-8

Compound Not Detected

---

24 Endosulfan II CAS #: 33213-65-9

Compound Not Detected

---

25 4,4'-DDT CAS #: 50-29-3

Compound Not Detected

---

26 Endrin aldehyde CAS #: 7421-93-4

Compound Not Detected

---

28 Methoxychlor CAS #: 72-43-5

Compound Not Detected

---

27 Endosulfan sulfate CAS #: 1031-07-8

Compound Not Detected

---

29 Endrin ketone CAS #: 53494-70-5

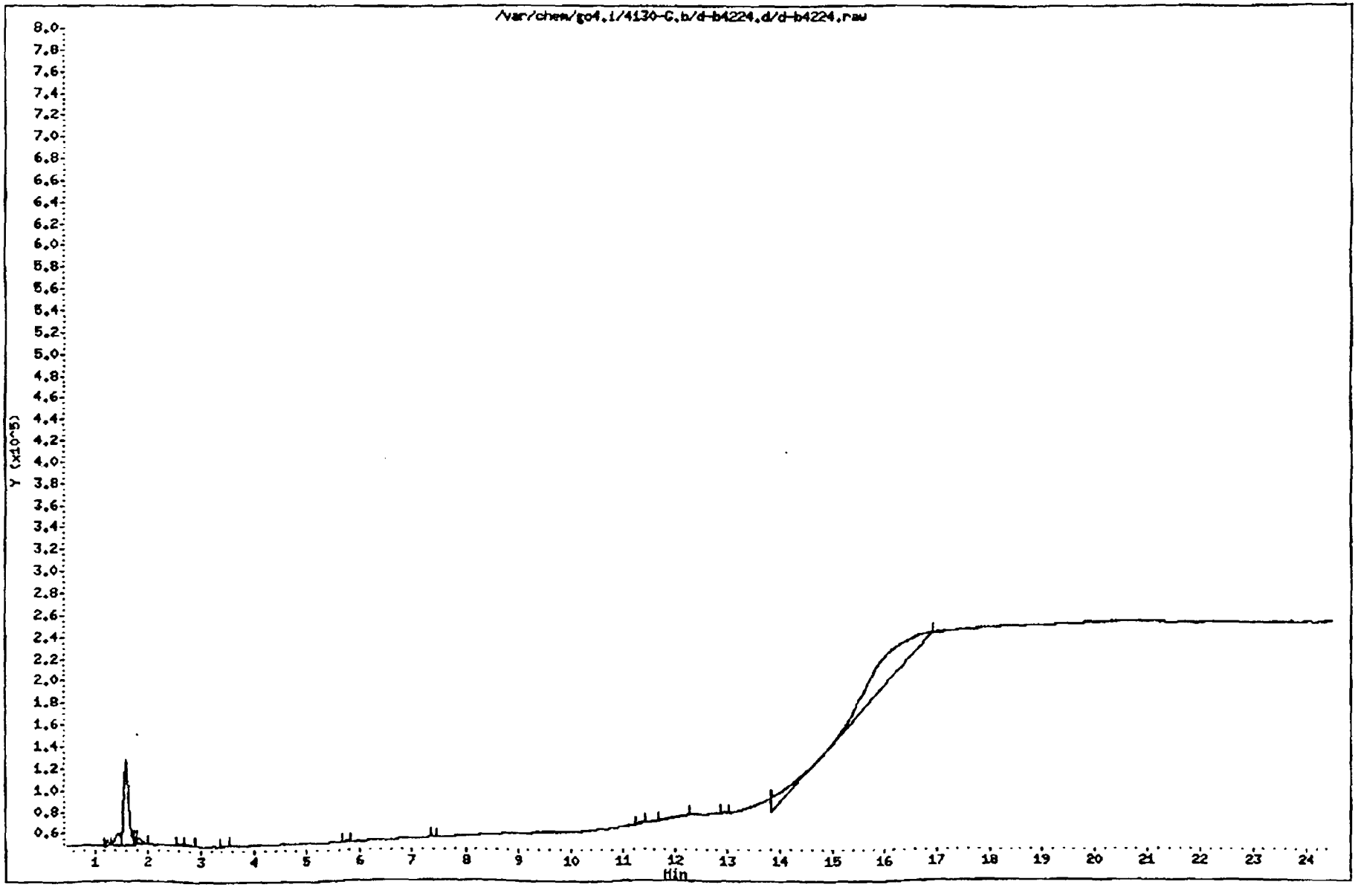
Compound Not Detected

$ 30 Decachlorobiphenyl CAS #: 2051-24-3

Compound Not Detected

Data File: /var/chem/gc4.i/4130-G.b/d-b4224.d
Date : 14-JUL-2000 12:10
Client ID:
Sample Info: CRQLB77,4130-G.b,,all.sub,,,
Volume Injected (uL): 1.0
Column phase: DB1701

Instrument: gc4.i
Operator: 01891
Column diameter: 0.53

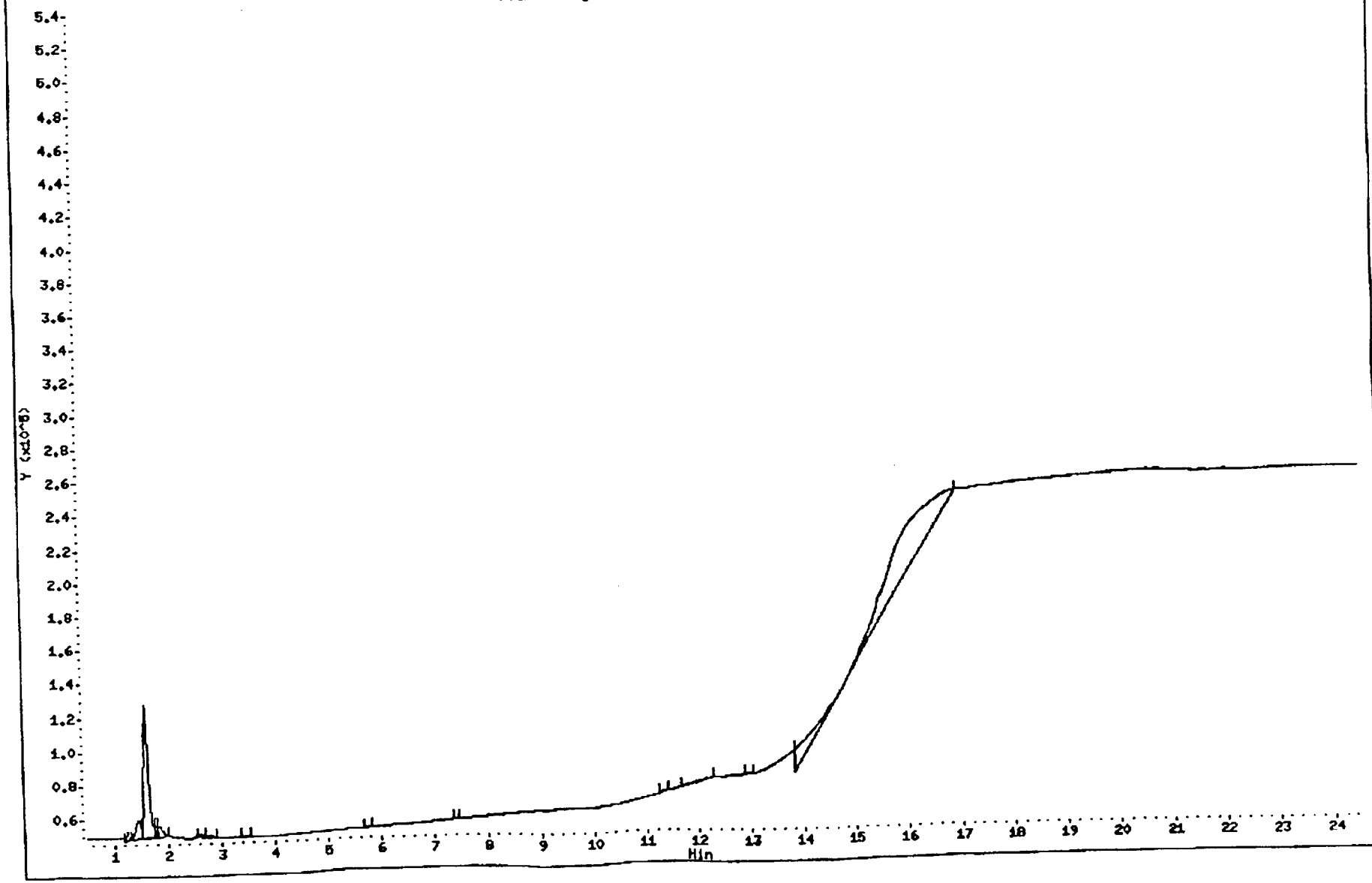


Data File: /var/chem/gc4.i/4130-C.b/d-b4224.d
Date : 14-JUL-2000 12:10
Client ID:
Sample Info: CRQLB77,4130-C.b,,all.sub,,,
Volume Injected (uL): 1.0
Column phase: DB1701

Instrument: gc4.i

Operator: 01891
Column diameter: 0.53

/var/chem/gc4.i/4130-C.b/d-b4224.d/d-b4224.raw



STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-a4224.d
Lab Smp Id: CRQLB77
Inj Date : 14-JUL-2000 12:10
Operator : 01891 Inst ID: gc4.i
Smp Info : CRQLB77,4130-G.b,,all.sub,,,
Misc Info : GPCB7/7/00
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4A.m
Meth Date : 14-Jul-2000 12:25 matkol Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-a4199.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.40 Sample Matrix: WATER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	5000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO

$ 1 Tetrachloro-m-xylene CAS #: 877-09-8

Compound Not Detected

---

2 Aroclor-1221 CAS #: 11104-28-2

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO

3 Aroclor-1232 CAS #: 11141-16-5

Peaks not detected for Quant. or Qual. signal(s).

---

4 Aroclor-1016 CAS #: 12674-11-2

Peaks not detected for Quant. or Qual. signal(s).

---

5 alpha-BHC CAS #: 319-84-6

Compound Not Detected

---

6 Aroclor-1242 CAS #: 53469-21-9

Peaks not detected for Quant. or Qual. signal(s).

---

7 gamma-BHC(Lindane) CAS #: 58-89-9

Compound Not Detected

---

8 beta-BHC CAS #: 319-85-7

Compound Not Detected

---

9 Heptachlor CAS #: 76-44-8

Compound Not Detected

---

10 Aroclor-1248 CAS #: 12672-29-6

Peaks not detected for Quant. or Qual. signal(s).

---

11 delta-BHC CAS #: 319-86-8

Compound Not Detected

---

12 Aldrin CAS #: 309-00-2

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
13 Heptachlor epoxide					CAS #: 1024-57-3		

Compound Not Detected

---

14 gamma-Chlordane					CAS #: 5103-74-2		

Compound Not Detected

---

15 Aroclor-1254					CAS #: 11097-69-1		

Peaks not detected for Quant. or Qual. signal(s).

---

16 alpha-Chlordane					CAS #: 5103-71-9		

Compound Not Detected

---

17 Endosulfan I					CAS #: 959-98-8		

Compound Not Detected

---

19 4,4'-DDE					CAS #: 72-55-9		

Compound Not Detected

---

20 Dieldrin					CAS #: 60-57-1		

Compound Not Detected

---

21 Aroclor-1260					CAS #: 11096-82-5		

Peaks not detected for Quant. or Qual. signal(s).

---

22 Endrin					CAS #: 72-20-8		

Compound Not Detected

---

23 4,4'-DDD					CAS #: 72-54-8		

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
18 Toxaphene					CAS #: 8001-35-2		

Peaks not detected for Quant. or Qual. signal(s).

---

24 Endosulfan II CAS #: 33213-65-9

Compound Not Detected

---

25 4,4'-DDT CAS #: 50-29-3

Compound Not Detected

---

26 Endrin aldehyde CAS #: 7421-93-4

Compound Not Detected

---

27 Endosulfan sulfate CAS #: 1031-07-8

Compound Not Detected

---

28 Methoxychlor CAS #: 72-43-5

Compound Not Detected

---

29 Endrin ketone CAS #: 53494-70-5

Compound Not Detected

$ 30 Decachlorobiphenyl CAS #: 2051-24-3

Compound Not Detected

Data File: /var/chem/gc4.i/4130-C.b/d-a4224.d

Date : 14-JUL-2000 12:10

Client ID:

Instrument: gc4.i

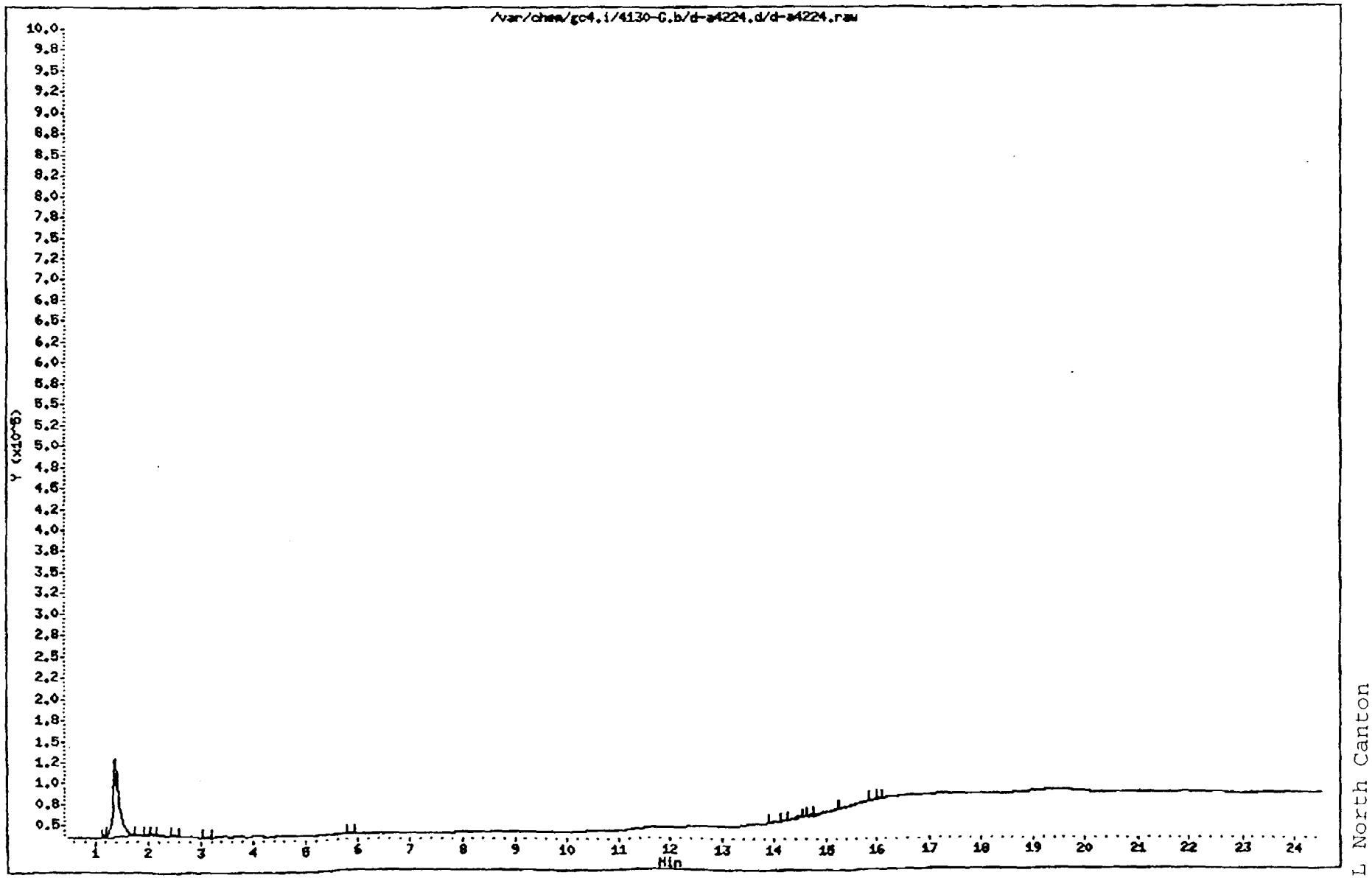
Sample Info: CRQL877,4130-C.b,,all,sub,,,

Volume Injected (uL): 1.0

Operator: 01891

Column phase: DB608

Column diameter: 0.53



Data File: /var/chem/go4.i/4130-G.b/d-a4224.d

Date : 14-JUL-2000 12:10

Client ID:

Instrument: go4.i

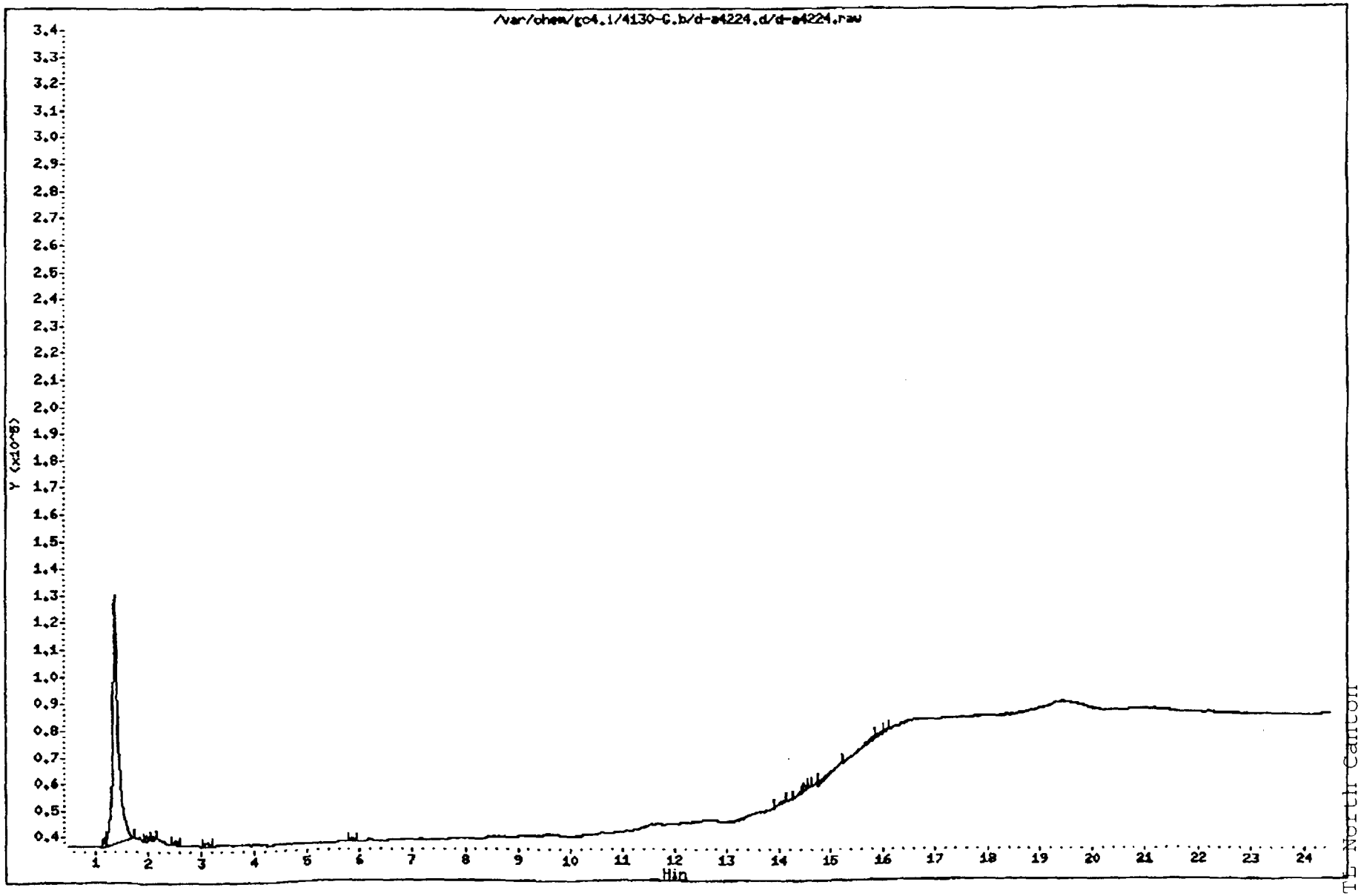
Sample Info: CROLB77,4130-G.b,,all.sub,,,

Volume Injected (uL): 1.0

Operator: 01891

Column phase: DB608

Column diameter: 0.53



STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-b4225.d
Lab Smp Id: PESTB77
Inj Date : 14-JUL-2000 12:38
Operator : 01891 Inst ID: gc4.i
Smp Info : PESTB77,4130-G.b,,all.sub,,,
Misc Info : GPCB7/7/00
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4B.m
Meth Date : 14-Jul-2000 12:27 matkol Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-b4199.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.40 Sample Matrix: WATER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
Compound Not Detected							
2 Aroclor-1221					CAS #: 11104-28-2		
Peaks not detected for Quant. or Qual. signal(s).							

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
4 Aroclor-1232					CAS #: 11141-16-5		

Peaks not detected for Quant. or Qual. signal(s).

---

5 alpha-BHC					CAS #: 319-84-6		

Compound Not Detected

---

3 Aroclor-1016					CAS #: 12674-11-2		

Peaks not detected for Quant. or Qual. signal(s).

---

8 Aroclor-1242					CAS #: 53469-21-9		

Peaks not detected for Quant. or Qual. signal(s).

---

6 gamma-BHC(Lindane)					CAS #: 58-89-9		
10.553	10.557	-0.004	126881	0.04151	0.4150	80.00- 120.00	100.00

---

9 Aroclor-1248					CAS #: 12672-29-6		

Peaks not detected for Quant. or Qual. signal(s).

---

7 Heptachlor					CAS #: 76-44-8		
11.360	11.368	-0.008	589304	0.04051	0.4051	80.00- 120.00	100.00

---

10 Aldrin					CAS #: 309-00-2		
12.273	12.280	-0.007	543733	0.04325	0.4325	80.00- 120.00	100.00

---

11 beta-BHC					CAS #: 319-85-7		

Compound Not Detected

---

12 delta-BHC					CAS #: 319-86-8		

Compound Not Detected

---

13 Heptachlor epoxide					CAS #: 1024-57-3		

Compound Not Detected

```
                                        CONCENTRATIONS
                                        ON-COL    FINAL
  RT   EXP RT  DLT RT        RESPONSE (   ng)  ( ug/L)   TARGET RANGE    RATIO
  ==   ======  ========      ======== =======  =======   ============    =====

  14 Aroclor-1254                                CAS #: 11097-69-1

Peaks not detected for Quant. or Qual. signal(s).

-------------------------------------------------------------------------------
  15 Endosulfan I                                CAS #: 959-98-8

Compound Not Detected
-------------------------------------------------------------------------------
  16 gamma-Chlordane                             CAS #: 5103-74-2

Compound Not Detected
-------------------------------------------------------------------------------
  17 alpha-Chlordane                             CAS #: 5103-71-9

Compound Not Detected
-------------------------------------------------------------------------------
  18 4,4'-DDE                                    CAS #: 72-55-9

Compound Not Detected
-------------------------------------------------------------------------------
  19 Dieldrin                                    CAS #: 60-57-1
15.860  15.865  -0.005          312422 0.08192   0.8192  80.00- 120.00   100.00
-------------------------------------------------------------------------------
  21 Aroclor-1260                                CAS #: 11096-82-5

Peaks not detected for Quant. or Qual. signal(s).

-------------------------------------------------------------------------------
  22 Endrin                                      CAS #: 72-20-8
15.907  15.908  -0.001          249698 0.08383   0.8382  80.00- 120.00   100.00
-------------------------------------------------------------------------------
  20 Toxaphene                                   CAS #: 8001-35-2

Peaks not detected for Quant. or Qual. signal(s).

-------------------------------------------------------------------------------
  23 4,4'-DDD                                    CAS #: 72-54-8

Compound Not Detected
-------------------------------------------------------------------------------
  24 Endosulfan II                               CAS #: 33213-65-9

Compound Not Detected
-------------------------------------------------------------------------------
  25 4,4'-DDT                                    CAS #: 50-29-3
16.847  16.852  -0.005          224432 0.07893   0.7893  80.00- 120.00   100.00
-------------------------------------------------------------------------------
```

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO

26 Endrin aldehyde CAS #: 7421-93-4

Compound Not Detected

---

28 Methoxychlor CAS #: 72-43-5

Compound Not Detected

---

27 Endosulfan sulfate CAS #: 1031-07-8

Compound Not Detected

---

29 Endrin ketone CAS #: 53494-70-5

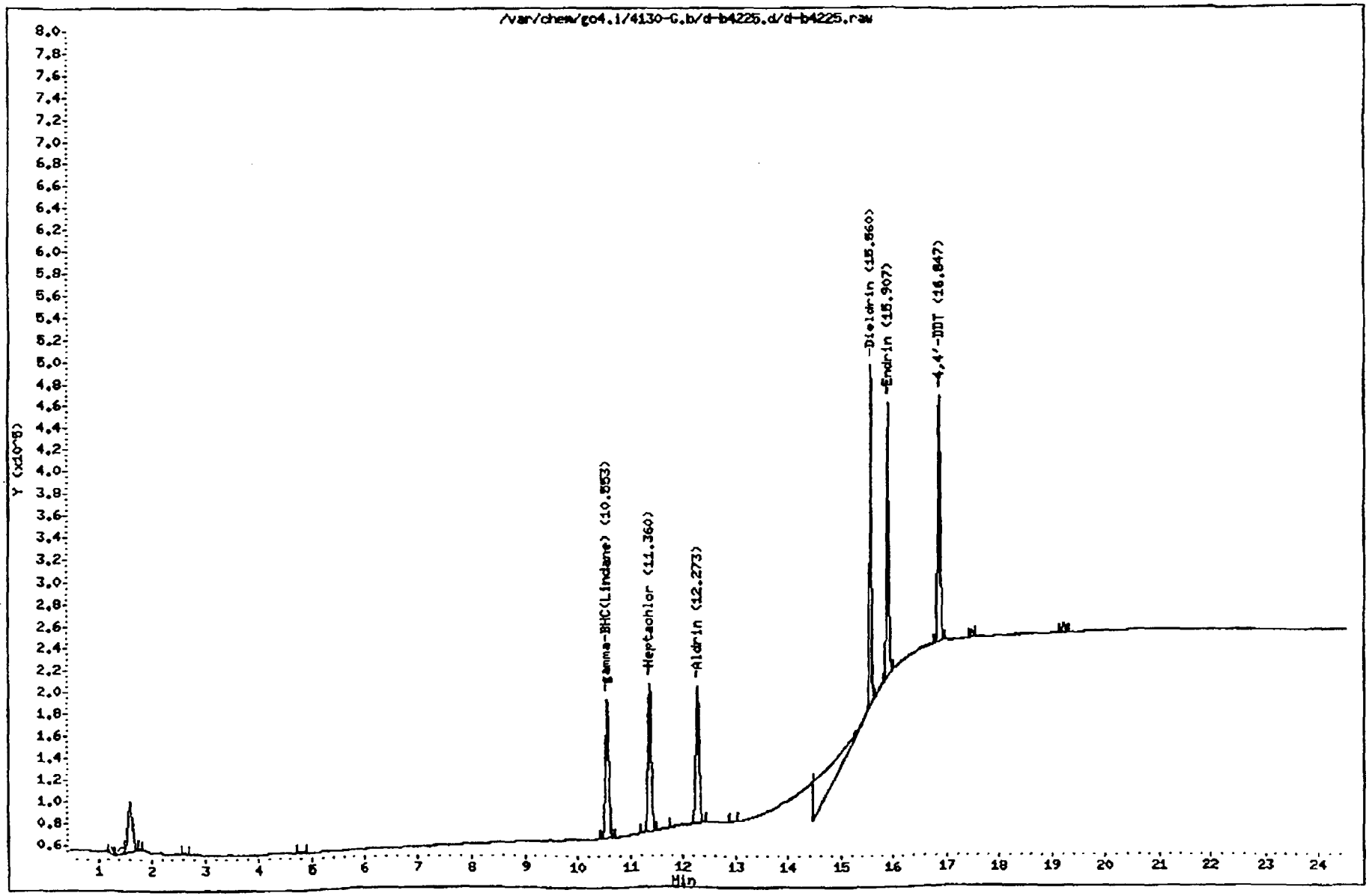
Compound Not Detected

\# 30 Decachlorobiphenyl CAS #: 2051-24-3

Compound Not Detected

Data File: /var/chem/go4.i/4130-G.b/d-b4225.d
Date : 14-JUL-2000 12:38
Client ID:
Sample Info: PESTB77,4130-G.b,,all,sub,,,
Volume Injected (uL): 1.0
Column phase: DB1701

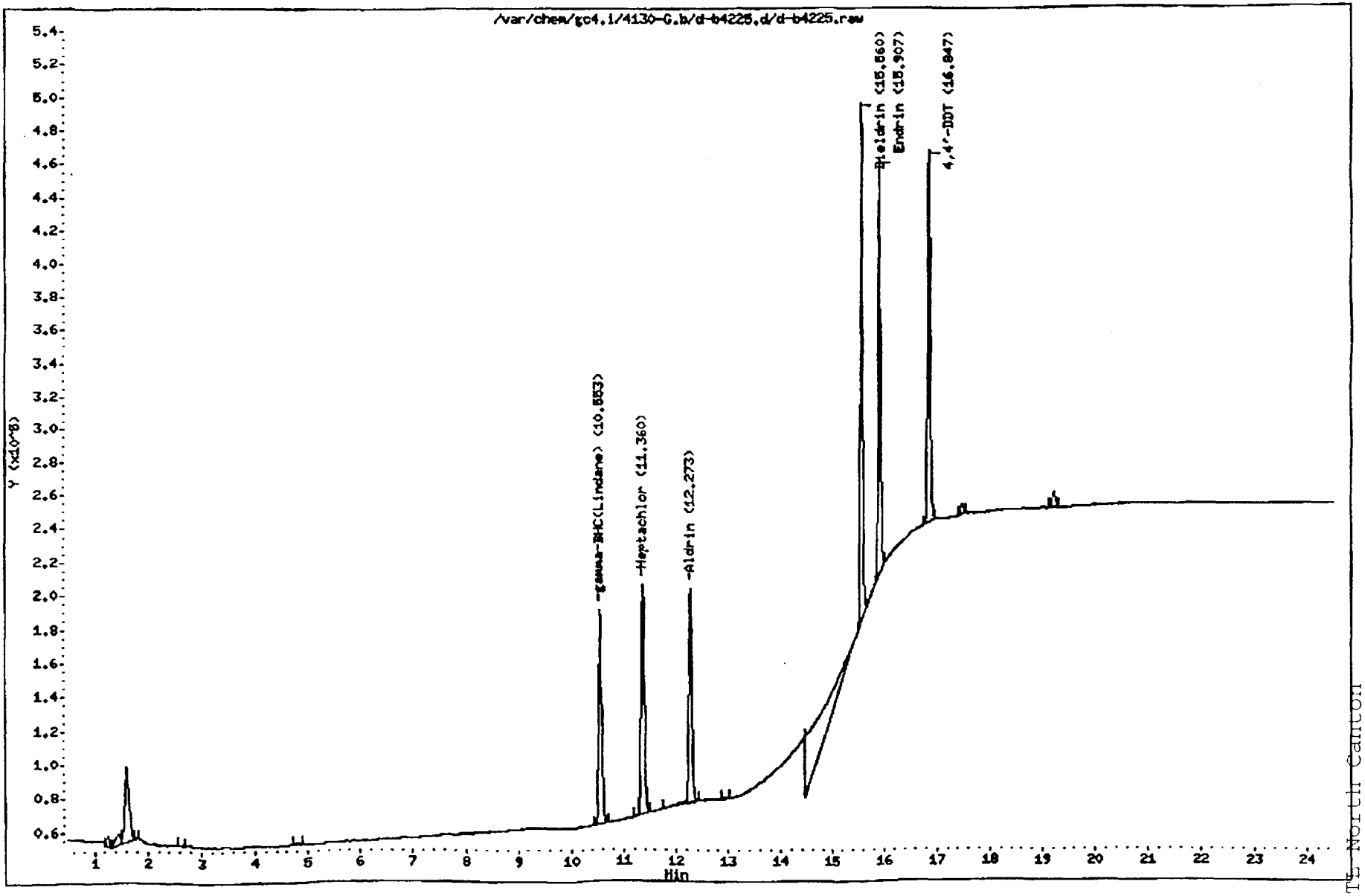
Instrument: go4.i
Operator: 01891
Column diameter: 0.53



Data File: /var/chem/gc4.i/4130-G.b/d-b4225.d
Date : 14-JUL-2000 12:38
Client ID:
Sample Info: PESTB77,4130-G.b,,all.sub,,,
Volume Injected (uL): 1.0
Column phase: DB1701

Instrument: gc4.i

Operator: 01891
Column diameter: 0.53



STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-a4225.d
Lab Smp Id: PESTB77
Inj Date : 14-JUL-2000 12:38
Operator : 01891 Inst ID: gc4.i
Smp Info : PESTB77,4130-G.b,,all.sub,,,
Misc Info : GPCB7/7/00
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4A.m
Meth Date : 14-Jul-2000 12:25 matkol Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-a4199.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.40 Sample Matrix: WATER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
Compound Not Detected							
2 Aroclor-1221					CAS #: 11104-28-2		
Peaks not detected for Quant. or Qual. signal(s).							

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
3 Aroclor-1232					CAS #: 11141-16-5		

Peaks not detected for Quant. or Qual. signal(s).

---

4 Aroclor-1016 CAS #: 12674-11-2

Peaks not detected for Quant. or Qual. signal(s).

---

5 alpha-BHC CAS #: 319-84-6

Compound Not Detected

---

6 Aroclor-1242 CAS #: 53469-21-9

Peaks not detected for Quant. or Qual. signal(s).

---

7 gamma-BHC(Lindane) CAS #: 58-89-9

9.980	9.989	-0.009	127214	0.03957	0.3957	80.00- 120.00	100.00

---

8 beta-BHC CAS #: 319-85-7

Compound Not Detected

---

9 Heptachlor CAS #: 76-44-8

11.233	11.242	-0.009	124826	0.03908	0.3908	80.00- 120.00	100.00

---

10 Aroclor-1248 CAS #: 12672-29-6

Peaks not detected for Quant. or Qual. signal(s).

---

11 delta-BHC CAS #: 319-86-8

Compound Not Detected

---

12 Aldrin CAS #: 309-00-2

12.347	12.353	-0.006	112008	0.04212	0.4212	80.00- 120.00	100.00

---

13 Heptachlor epoxide CAS #: 1024-57-3

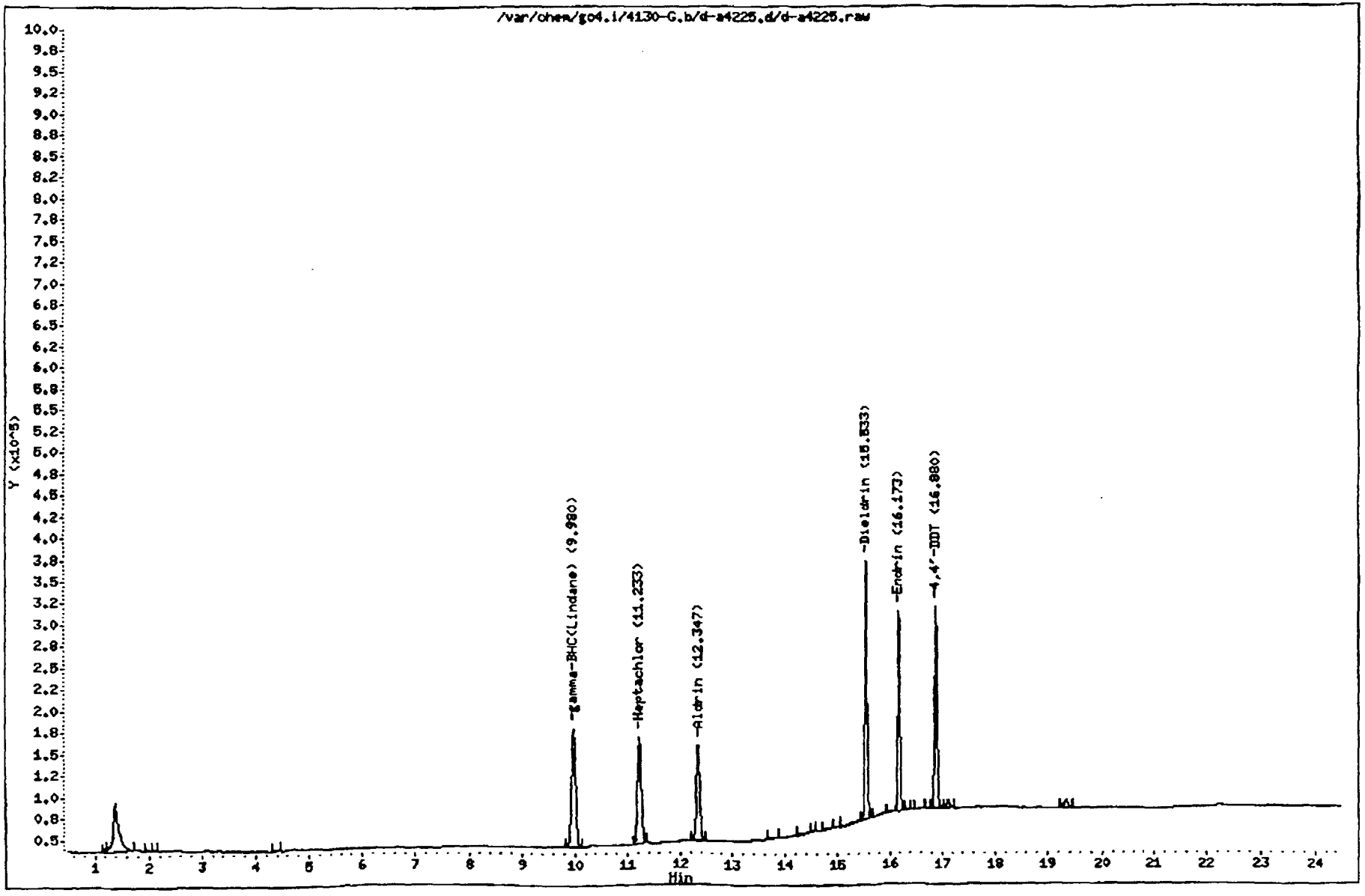
Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
14 gamma-Chlordane					CAS #: 5103-74-2		
Compound Not Detected							
15 Aroclor-1254					CAS #: 11097-69-1		
Peaks not detected for Quant. or Qual. signal(s).							
16 alpha-Chlordane					CAS #: 5103-71-9		
Compound Not Detected							
17 Endosulfan I					CAS #: 959-98-8		
Compound Not Detected							
19 4,4'-DDE					CAS #: 72-55-9		
Compound Not Detected							
20 Dieldrin					CAS #: 60-57-1		
15.533	15.545	-0.012	299893	0.08112	0.8112	80.00- 120.00	100.00
21 Aroclor-1260					CAS #: 11096-82-5		
Peaks not detected for Quant. or Qual. signal(s).							
22 Endrin					CAS #: 72-20-8		
16.173	16.180	-0.007	233621	0.08604	0.8604	80.00- 120.00	100.00
23 4,4'-DDD					CAS #: 72-54-8		
Compound Not Detected							
18 Toxaphene					CAS #: 8001-35-2		
Peaks not detected for Quant. or Qual. signal(s).							
24 Endosulfan II					CAS #: 33213-65-9		
Compound Not Detected							
25 4,4'-DDT					CAS #: 50-29-3		
16.880	16.887	-0.007	234108	0.08055	0.8055	80.00- 120.00	100.00

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
26 Endrin aldehyde					CAS #: 7421-93-4		
Compound Not Detected							
27 Endosulfan sulfate					CAS #: 1031-07-8		
Compound Not Detected							
28 Methoxychlor					CAS #: 72-43-5		
Compound Not Detected							
29 Endrin ketone					CAS #: 53494-70-5		
Compound Not Detected							
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
Compound Not Detected							

Data File: /var/chem/gc4.i/4130-G.b/d-a4225.d
Date : 14-JUL-2000 12:38
Client ID:
Sample Info: PEST877,4130-G.b,,all.sub,,,
Volume Injected (uL): 1.0
Column phase: DB608

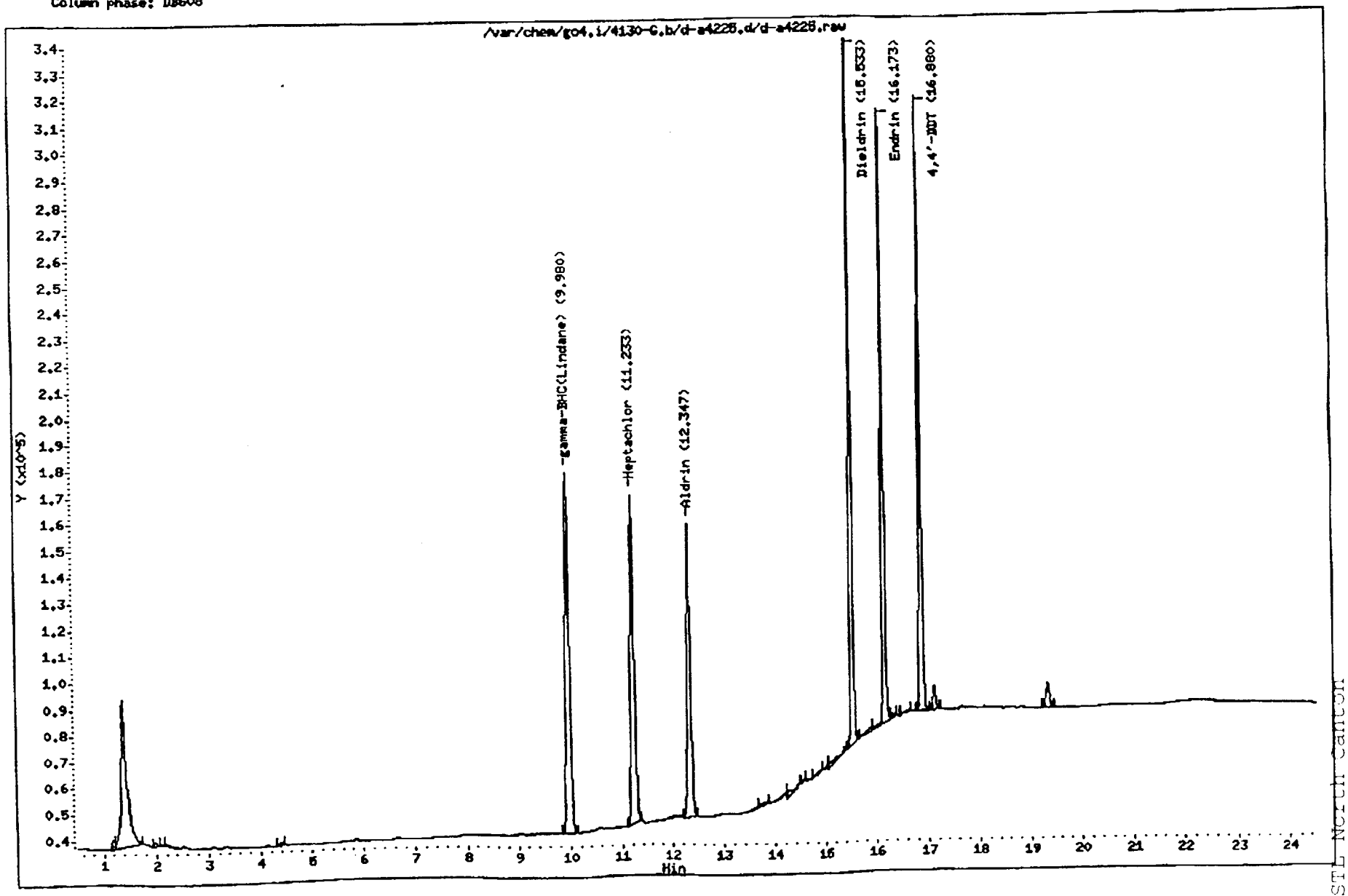
Instrument: gc4.i
Operator: 01891
Column diameter: 0.53



Data File: /var/chem/gc4.i/4130-G.b/d-a4225.d
Date : 14-JUL-2000 12:38
Client ID:
Sample Info: PESTB77,4130-G.b,,all.sub,,,
Volume Injected (uL): 1.0
Column phase: DB608

Instrument: gc4.i

Operator: 01891
Column diameter: 0.53



STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-b4226.d
Lab Smp Id: PCBB77
Inj Date : 14-JUL-2000 13:05
Operator : 01891 Inst ID: gc4.i
Smp Info : PCBB77,4130-G.b,,all.sub,,,
Misc Info : GPCB7/7/00
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4B.m
Meth Date : 14-Jul-2000 12:27 matkol Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-b4199.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AR1660.sub
Target Version: 3.40 Sample Matrix: WATER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
**	******	********	********	*******	*******	**********	*****
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
Compound Not Detected							
3 Aroclor-1016					CAS #: 12674-11-2		
8.020	8.027	-0.007	5284	0.10069	1.007	80.00- 120.00	100.00
9.327	9.333	-0.006	9767	0.10062	1.006	161.69- 201.69	184.84
11.047	11.053	-0.006	20167	0.10087	1.009	52.17- 92.17	381.66
11.480	11.487	-0.007	7855	0.10231	1.023	44.13- 84.13	148.66
11.820	11.820	0.000	7378	0.10064	1.006	43.97- 83.97	139.63
Average of Peak Concentrations =					1.010		
21 Aroclor-1260					CAS #: 11096-82-5		
15.993	15.993	0.000	21121	0.09764	0.9764	80.00- 120.00	100.00(a)

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
21 Aroclor-1260 (continued)							
16.580	16.580	0.000	18472	0.09682	0.9682	48.95- 88.95	87.46
16.633	16.640	-0.007	17119	0.09964	0.9964	47.62- 87.62	81.05
17.787	17.793	-0.006	32102	0.09730	0.9730	147.77- 187.77	151.99
18.600	18.607	-0.007	16724	0.09751	0.9751	81.17- 121.17	79.18

Average of Peak Concentrations = 0.9778

$ 30 Decachlorobiphenyl CAS #: 2051-24-3

Compound Not Detected

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /var/chem/go4.i/4130-G.b/d-b4226.d

Date : 14-JUL-2000 13:06

Client ID:

Instrument: go4.i

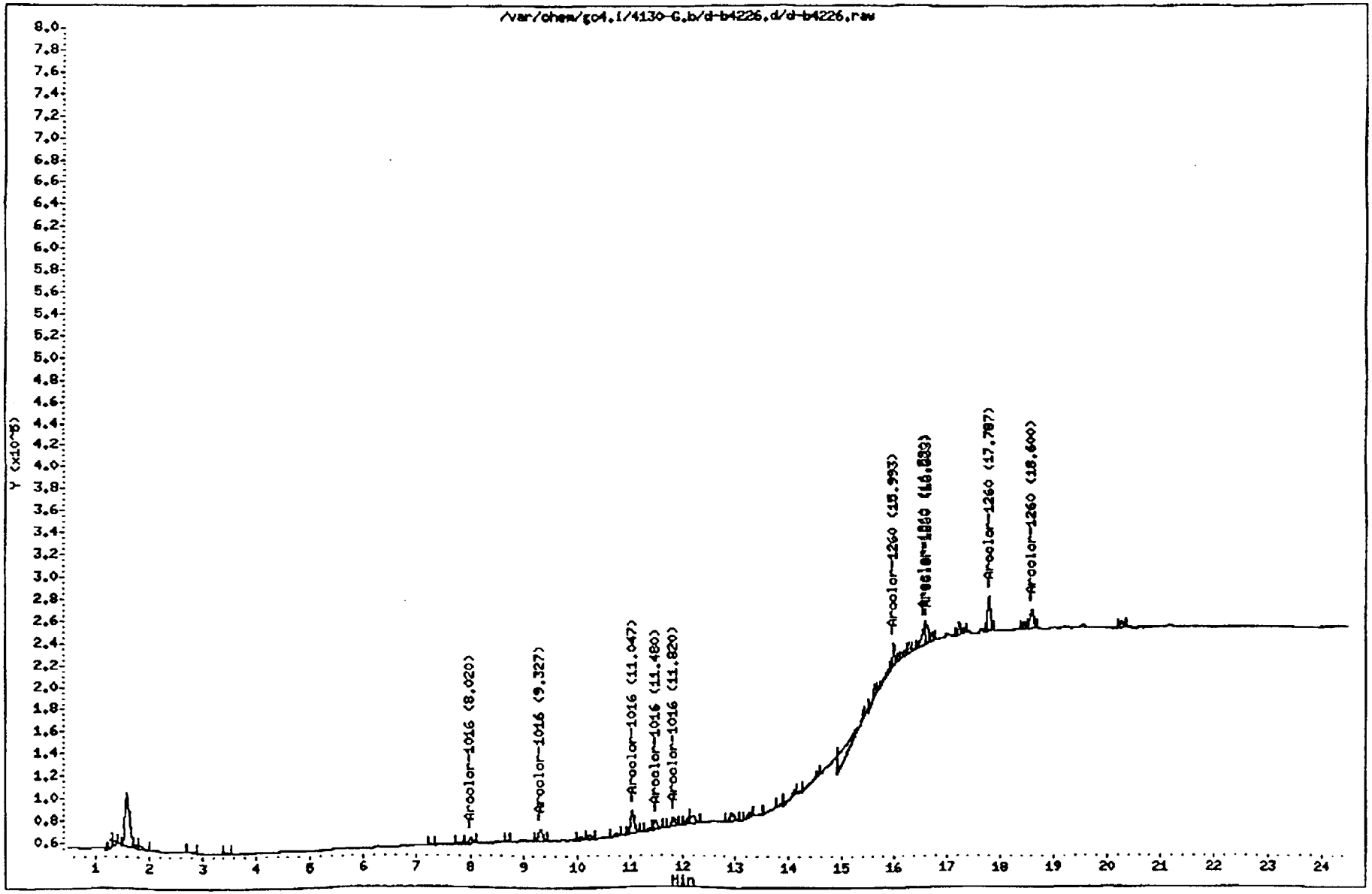
Sample Info: PCBB77,4130-G.b,,all.sub,,,

Volume Injected (uL): 1.0

Operator: 01891

Column phase: DB1701

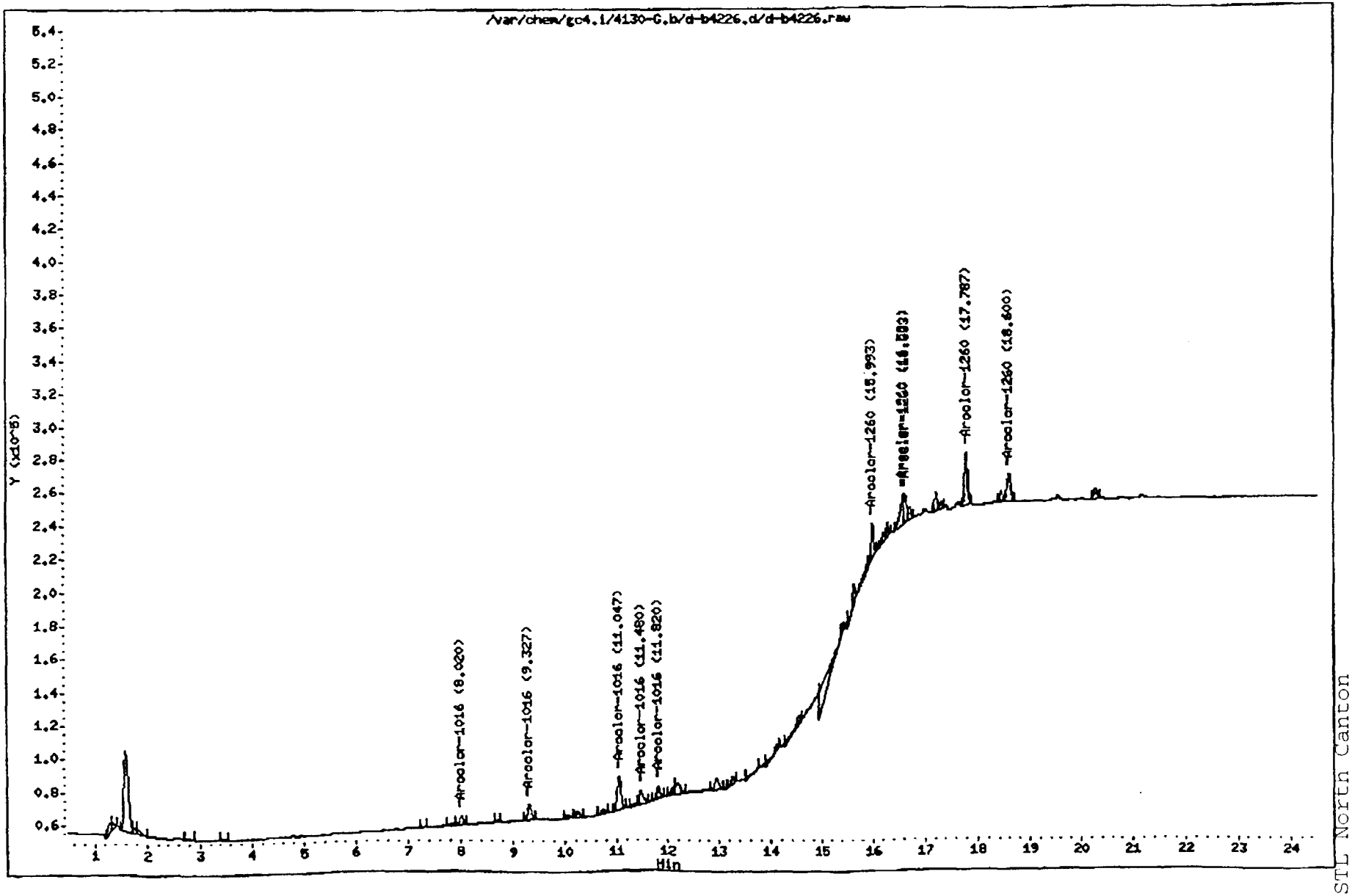
Column diameter: 0.53



Data File: /var/chem/gc4.i/4130-G.b/d-b4226.d
Date : 14-JUL-2000 13:06
Client ID:
Sample Info: PCBB77,4130-G.b,,all.sub,,,
Volume Injected (uL): 1.0
Column phase: DB1701

Instrument: gc4.i

Operator: 01891
Column diameter: 0.53



STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-a4226.d
Lab Smp Id: PCBB77
Inj Date : 14-JUL-2000 13:05
Operator : 01891 Inst ID: gc4.i
Smp Info : PCBB77,4130-G.b,,all.sub,,,
Misc Info : GPCB7/7/00
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4A.m
Meth Date : 14-Jul-2000 12:25 matkol Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-a4199.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-AR1660.sub
Target Version: 3.40 Sample Matrix: WATER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
Compound Not Detected							
4 Aroclor-1016					CAS #: 12674-11-2		
8.340	8.360	-0.020	7593	0.10163	1.016	80.00- 120.00	100.00
9.893	9.907	-0.014	13181	0.10055	1.005	163.71- 203.71	173.59
11.040	11.053	-0.013	5654	0.10282	1.028	223.39- 263.39	74.46
11.293	11.307	-0.014	19125	0.10007	1.001	104.47- 144.47	251.88
11.847	11.853	-0.006	8867	0.09966	0.9966	99.60- 139.60	116.78
Average of Peak Concentrations =					1.009		
21 Aroclor-1260					CAS #: 11096-82-5		
15.947	15.953	-0.006	21506	0.09749	0.9749	80.00- 120.00	100.00(a)

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
21 Aroclor-1260 (continued)							
16.080	16.087	-0.007	24273	0.09826	0.9826	162.69- 202.69	112.87
16.873	16.880	-0.007	17807	0.09551	0.9551	126.01- 166.01	82.80
17.973	17.987	-0.014	29979	0.09686	0.9686	253.63- 293.63	139.40
19.193	19.207	-0.014	13016	0.09764	0.9764	111.87- 151.87	60.52
Average of Peak Concentrations =					0.9715		

$ 30 Decachlorobiphenyl CAS #: 2051-24-3

Compound Not Detected

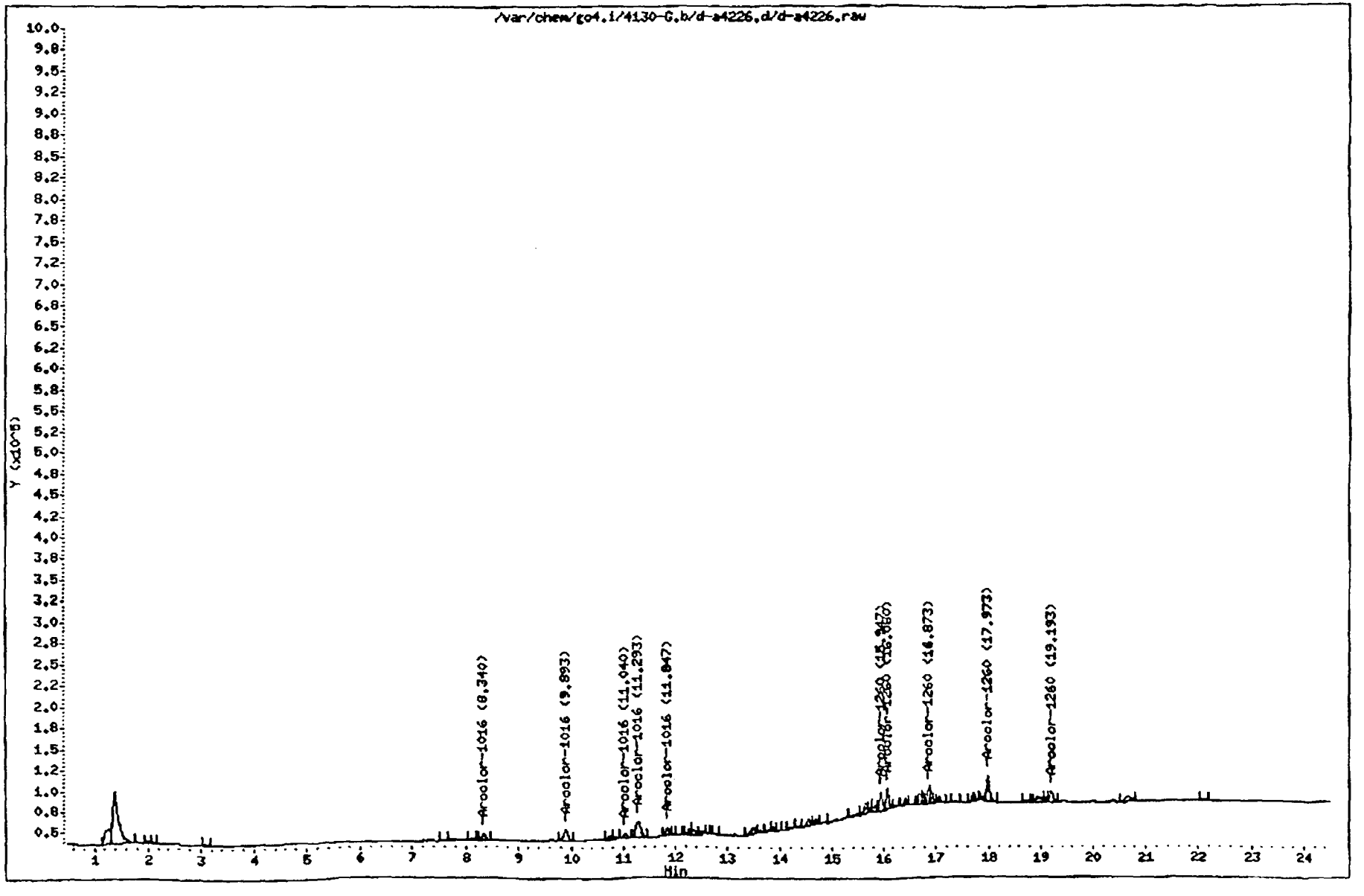
QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: /var/chem/gc4.i/4130-G.b/d-a4226.d
Date : 14-JUL-2000 13:05
Client ID:
Sample Info: PCB877,4130-G.b,,all.sub,,,
Volume Injected (uL): 1.0
Column phase: DB608

Instrument: gc4.i

Operator: 01891
Column diameter: 0.53



Data File: /var/chem/go4.i/4130-G.b/d-a4226.d

Page 1

Date : 14-JUL-2000 13:05

Client ID:

Instrument: go4.i

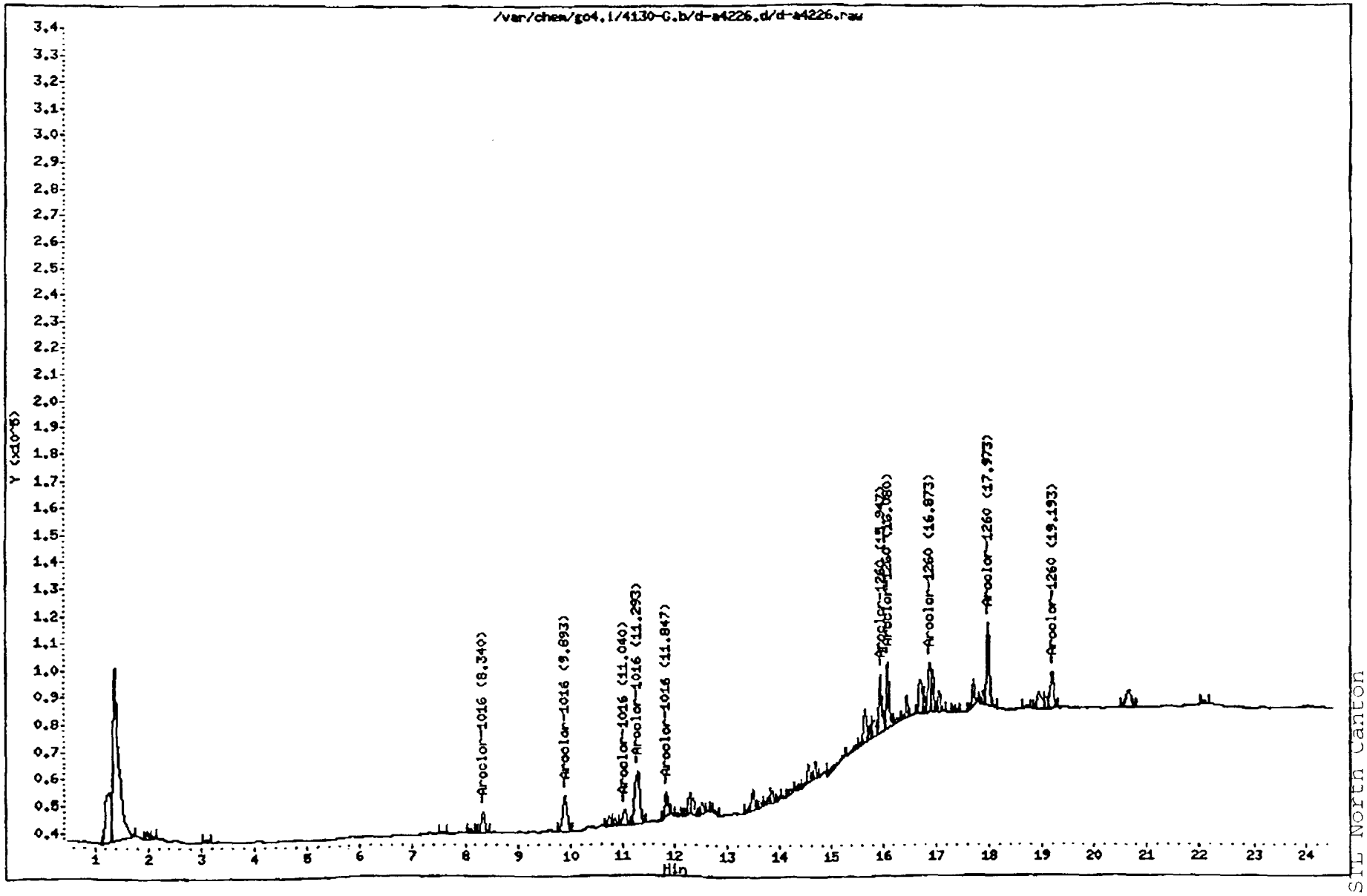
Sample Info: PCB77,4130-G.b,,all.sub,,,

Volume Injected (uL): 1.0

Operator: 01891

Column phase: DB608

Column diameter: 0.53



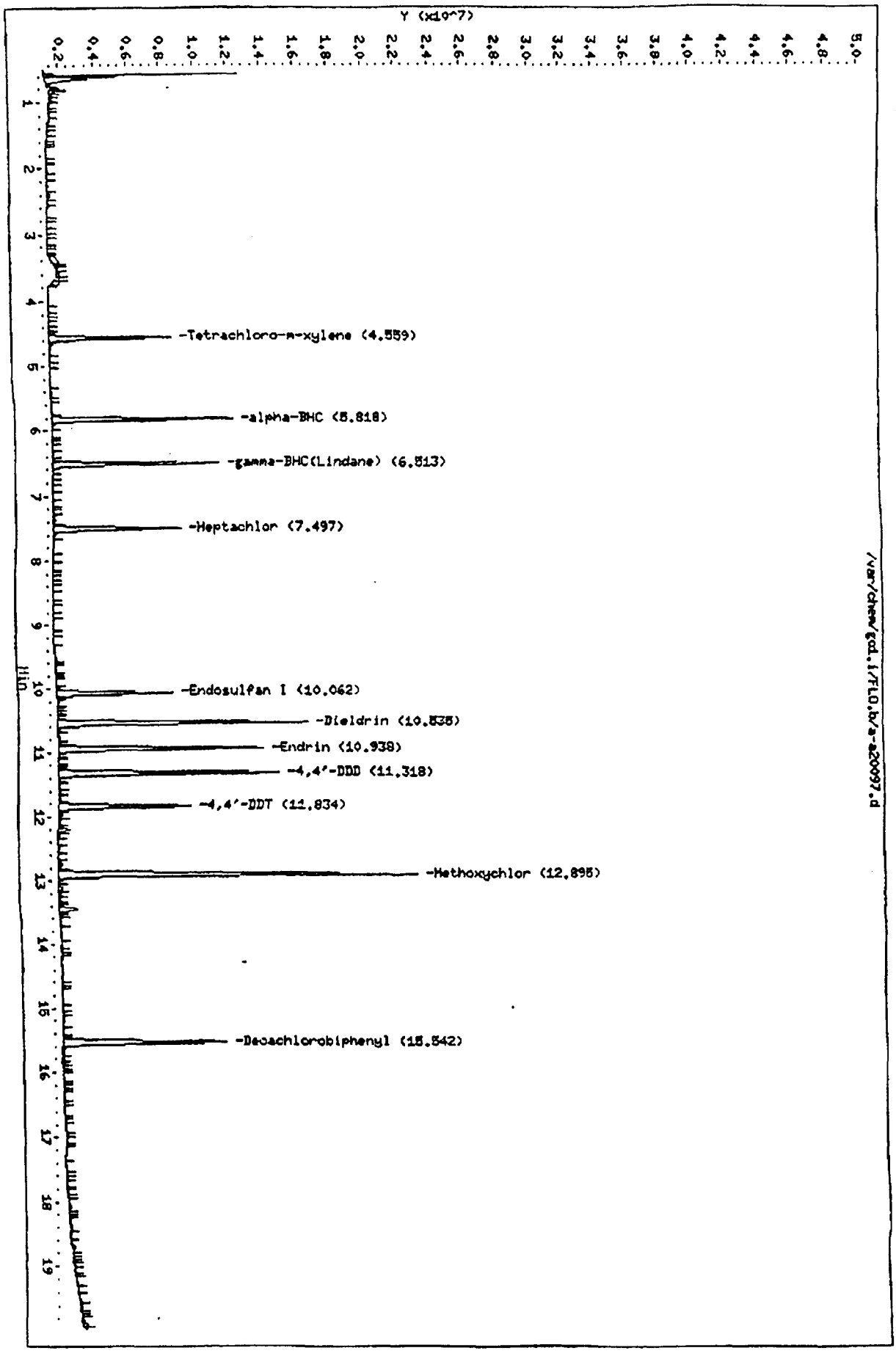
QUANTERRA-PITTSBURGH

Data file : /var/chem/gc1.i/FLO.b/a-a20097.d
Lab Smp Id: MEDA Client Smp ID: MEDA
Inj Date : 06-AUG-1999 14:06
Operator : 010139 Inst ID: gc1.i
Smp Info : MEDA,FLO.b
Misc Info : 190-56-7
Comment :
Method : /var/chem/gc1.i/FLO.b/flo.m
Meth Date : 10-Aug-1999 11:33 matkol Quant Type: ESTD
Cal Date : 06-AUG-1999 14:30 Cal File: a-a20098.d
Als bottle: 98 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8-INDA.sub
Target Version: 3.40

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 1 Tetrachloro-m-xylene	4.559	4.560	-0.001	7284625	0.02000	0.020
5 alpha-BHC	5.818	5.819	-0.001	10886656	0.02000	0.020
7 gamma-BHC(Lindane)	6.513	6.512	0.001	10021960	0.02000	0.020
9 Heptachlor	7.497	7.498	-0.001	7629838	0.02000	0.020
17 Endosulfan I	10.062	10.061	0.001	6939617	0.02000	0.020
20 Dieldrin	10.535	10.537	-0.002	14986977	0.04000	0.040
22 Endrin	10.938	10.938	0.000	12324017	0.04000	0.040
23 4,4'-DDD	11.318	11.318	0.000	13207725	0.04000	0.040
25 4,4'-DDT	11.834	11.833	0.001	7894991	0.04000	0.040
28 Methoxychlor	12.895	12.897	-0.002	21522888	0.20000	0.20
$ 30 Decachlorobiphenyl	15.542	15.541	0.001	9845834	0.04000	0.040

Data File: /var/chem/gcd.i/FLO.b/a-a20097.d
Date : 04-AUG-1999 14:06
Client ID: MEDA
Sample Info: MEDA.FLO.b
Column phase: RTx-CLP

Instrument: gcd.i
Operator: 040139
Column diameter: 0.53



Page 2

QUANTERRA-PITTSBURGH

Data file : /var/chem/gc1.i/FLO.b/a-a20098.d
Lab Smp Id: FLO
Client Smp ID: FLO
Inj Date : 06-AUG-1999 14:30
Operator : 010139
Inst ID: gc1.i
Smp Info : FLO,FLO.b
Misc Info :
Comment :
Method : /var/chem/gc1.i/FLO.b/flo.m
Meth Date : 10-Aug-1999 11:33 matkol
Quant Type: ESTD
Cal Date : 06-AUG-1999 14:30
Cal File: a-a20098.d
Als bottle: 99
Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon
Compound Sublist: tri.sub
Target Version: 3.40

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
8 2,4,5-trichlorophenol	2.386	2.386	0.000	51399432	0.10000	0.10(AM)

QC Flag Legend

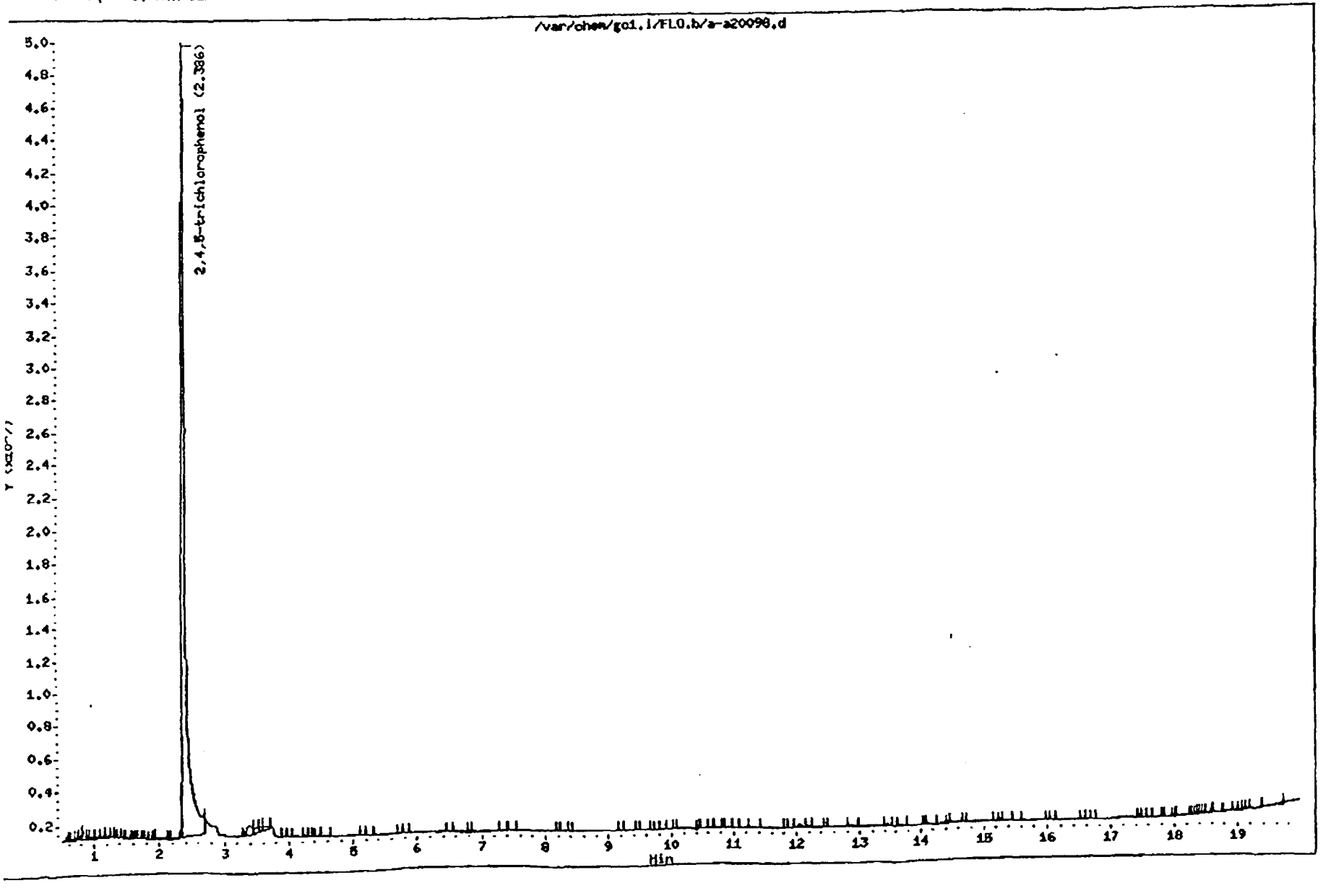
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: /var/chem/gc1.i/FLO.b/a-a20098.d
Date : 06-AUG-1999 14:30
Client ID: FLO
Sample Info: FLO,FLO.b

Column phase: RTx-CLP

Instrument: gc1.i

Operator: 010139
Column diameter: 0.53



QUANTERRA-PITTSBURGH

Data file : /var/chem/gc1.i/FLO.b/a-a20099.d
Lab Smp Id: FLO8699 Client Smp ID: FLO8699
Inj Date : 06-AUG-1999 15:30
Operator : 010139 Inst ID: gc1.i
Smp Info : FLO8699,FLO.b
Misc Info :
Comment :
Method : /var/chem/gc1.i/FLO.b/flo.m
Meth Date : 10-Aug-1999 11:33 matkol Quant Type: ESTD
Cal Date : 06-AUG-1999 14:30 Cal File: a-a20098.d
Als bottle: 100 QC Sample: FLORISIL
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: flor.sub
Target Version: 3.40

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ng)
	8 2,4,5-Trichlorophenol	Compound Not Detected.					
$	1 Tetrachloro-m-xylene	4.560	4.560	0.000	3318576	0.00911	0.0091
	5 alpha-BHC	5.819	5.819	0.000	4903689	0.00901	0.0090
	7 gamma-BHC(Lindane)	6.514	6.512	0.002	4562266	0.00910	0.0091
	9 Heptachlor	7.497	7.498	-0.001	3400128	0.00891	0.0089
	17 Endosulfan I	10.061	10.061	0.000	3271699	0.00943	0.0094
	20 Dieldrin	10.535	10.537	-0.002	7169102	0.01913	0.019
	22 Endrin	10.939	10.938	0.001	5699933	0.01850	0.018
	23 4,4'-DDD	11.317	11.318	-0.001	6199583	0.01878	0.019
	25 4,4'-DDT	11.833	11.833	0.000	3417027	0.01731	0.017
	28 Methoxychlor	12.895	12.897	-0.002	10306952	0.09578	0.096
$	30 Decachlorobiphenyl	15.540	15.541	-0.001	4843563	0.01968	0.020

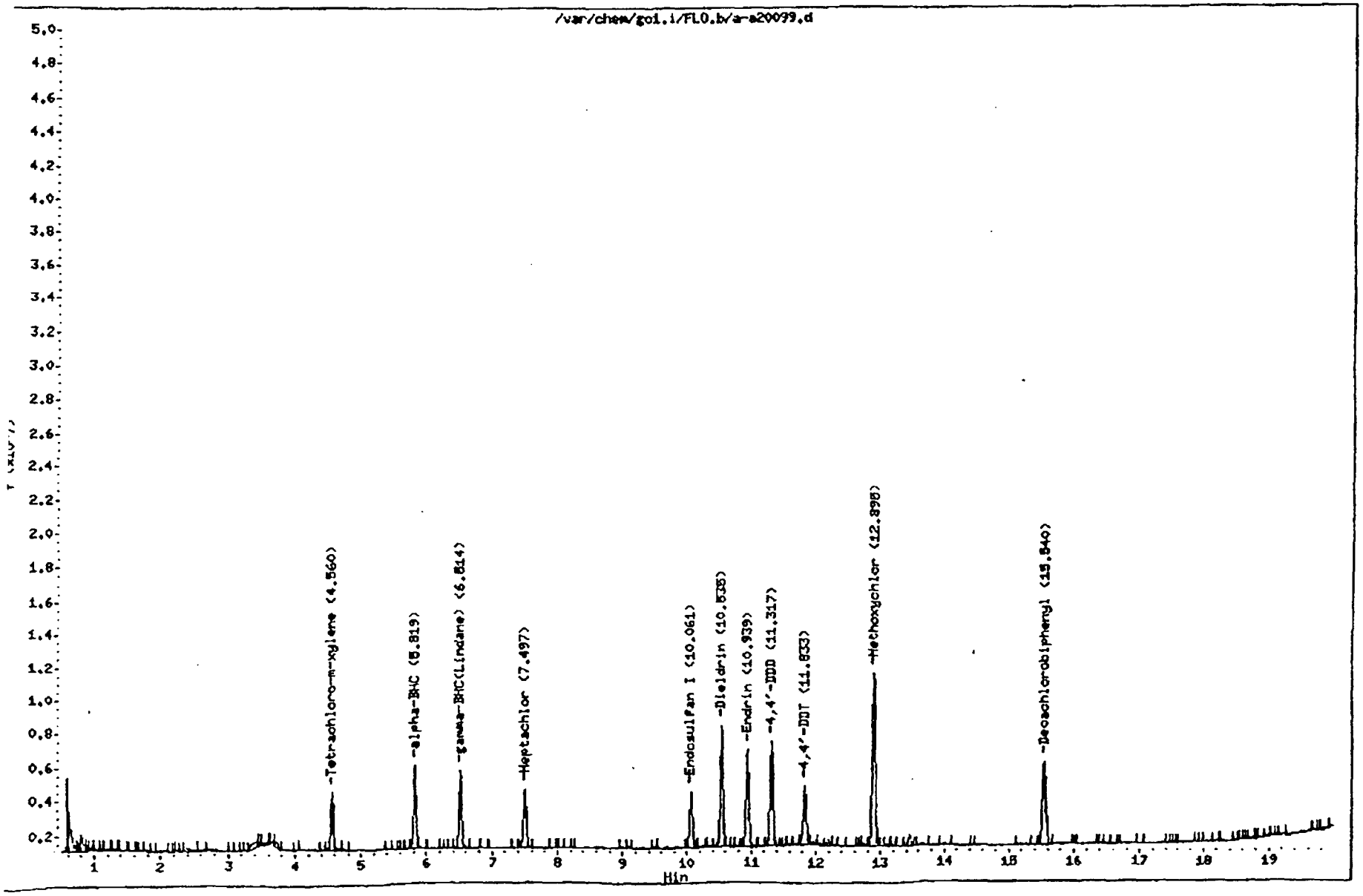
Data File: /var/chem/gci.i/FLO.b/a-a20099.d
Date : 06-AUG-1999 15:30
Client ID: FLO8699
Sample Info: FLO8699,FLO.b

Column phase: RTx-CLP

Page 2

Instrument: gci.i

Operator: 010139
Column diameter: 0.53



PESTICIDE / PCB
QC DATA

RMT
METHOD BLANK COMPOUNDS

Lab Name:Severn Trent Laboratories, Inc. SDG Number:G06146

Matrix: (soil/water) SOLID Lab Sample ID:C0G110000 481
Method: OCLP OLM03.1
Pesticides/PCB (CLP-OLM03.1)

Sample WT/Vol: 30 / g Date Received: 07/06/00
Work Order: DG1PV101 Date Extracted:07/11/00
Dilution factor: 1 Date Analyzed: 07/14/00
Moisture %:NA

QC Batch: 0193481

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	1.7	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
60-57-1	Dieldrin	3.3	U
76-44-8	Heptachlor	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
8001-35-2	Toxaphene	170	U

FORM I

STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-a4220.d
Lab Smp Id: DG1PV101 Client Smp ID: PBLK1
Inj Date : 14-JUL-2000 10:13
Operator : 01891 Inst ID: gc4.i
Smp Info : DG1PV101,4130-G.b,,all.sub,,3,
Misc Info : 060146-BLK
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4A.m
Meth Date : 14-Jul-2000 12:11 g Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-a4199.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.40 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	GPC Correction factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.000	% Moisture

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.133	6.140	-0.007	129872	0.03703	12.34	80.00- 120.00	100.00
2 Aroclor-1221					CAS #: 11104-28-2		

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
3 Aroclor-1232					CAS #: 11141-16-5		

Peaks not detected for Quant. or Qual. signal(s).

---

4 Aroclor-1016 CAS #: 12674-11-2

Peaks not detected for Quant. or Qual. signal(s).

---

5 alpha-BHC CAS #: 319-84-6

Compound Not Detected

---

6 Aroclor-1242 CAS #: 53469-21-9

Peaks not detected for Quant. or Qual. signal(s).

---

7 gamma-BHC(Lindane) CAS #: 58-89-9

Compound Not Detected

---

8 beta-BHC CAS #: 319-85-7

Compound Not Detected

---

9 Heptachlor CAS #: 76-44-8

Compound Not Detected

---

10 Aroclor-1248 CAS #: 12672-29-6

Peaks not detected for Quant. or Qual. signal(s).

---

11 delta-BHC CAS #: 319-86-8

Compound Not Detected

---

12 Aldrin CAS #: 309-00-2

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

13 Heptachlor epoxide CAS #: 1024-57-3

Compound Not Detected

---

14 gamma-Chlordane CAS #: 5103-74-2

Compound Not Detected

---

15 Aroclor-1254 CAS #: 11097-69-1

Peaks not detected for Quant. or Qual. signal(s).

---

16 alpha-Chlordane CAS #: 5103-71-9

Compound Not Detected

---

17 Endosulfan I CAS #: 959-98-8

Compound Not Detected

---

19 4,4'-DDE CAS #: 72-55-9

Compound Not Detected

---

20 Dieldrin CAS #: 60-57-1

Compound Not Detected

---

21 Aroclor-1260 CAS #: 11096-82-5

Peaks not detected for Quant. or Qual. signal(s).

---

22 Endrin CAS #: 72-20-8

Compound Not Detected

---

23 4,4'-DDD CAS #: 72-54-8

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
18 Toxaphene					CAS #: 8001-35-2		

Peaks not detected for Quant. or Qual. signal(s).

---

24 Endosulfan II CAS #: 33213-65-9

Compound Not Detected

---

25 4,4'-DDT CAS #: 50-29-3

Compound Not Detected

---

26 Endrin aldehyde CAS #: 7421-93-4

Compound Not Detected

---

27 Endosulfan sulfate CAS #: 1031-07-8

Compound Not Detected

---

28 Methoxychlor CAS #: 72-43-5

Compound Not Detected

---

29 Endrin ketone CAS #: 53494-70-5

Compound Not Detected

$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
22.573	23.587	-0.014	74709	0.04264	14.21	80.00- 120.00	100.00

Data File: /var/chem/gc4.i/4130-G.b/d-a4220.d

Date : 14-JUL-2000 10:13

Client ID: PBLK1

Instrument: gc4.i

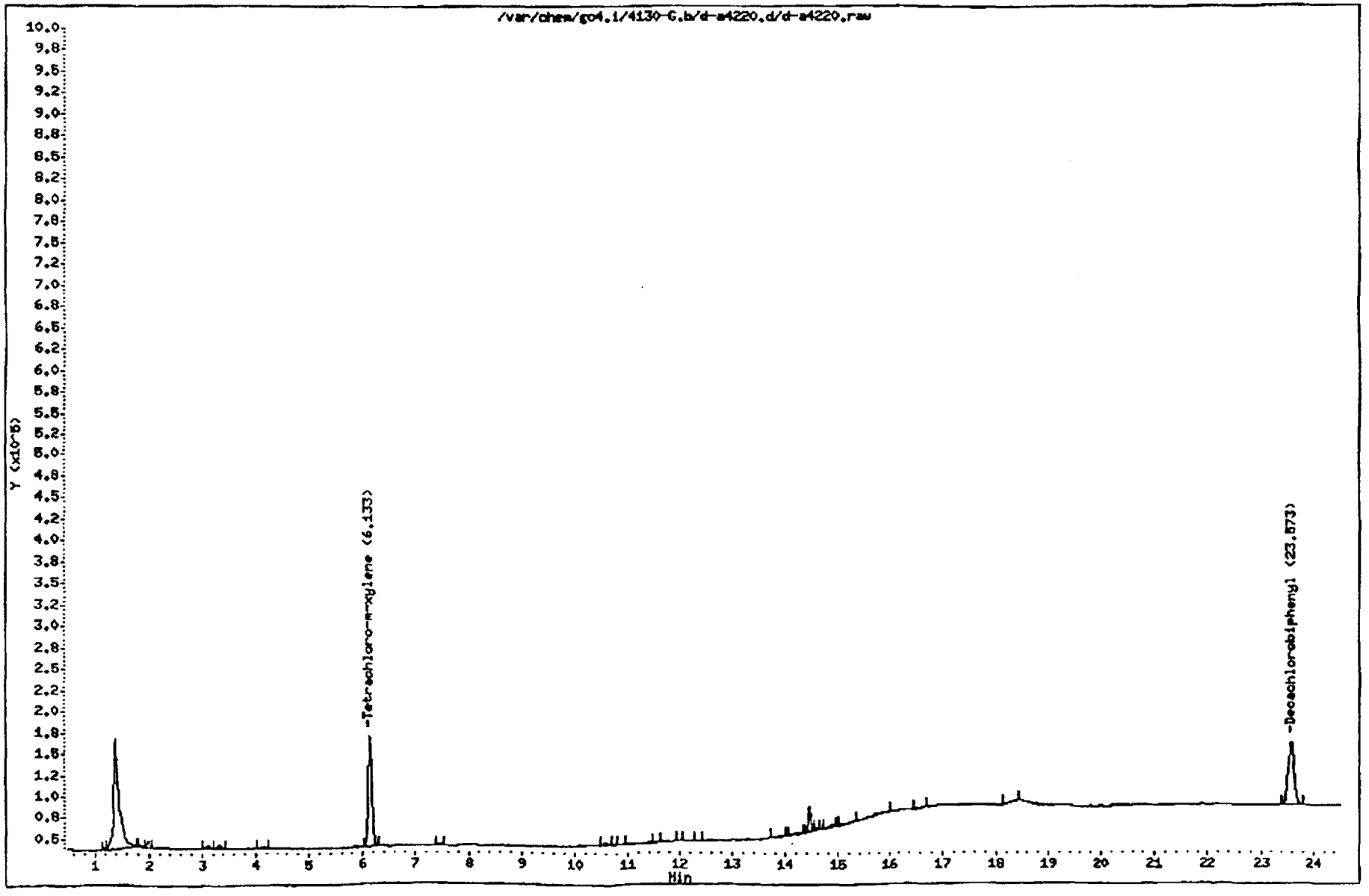
Sample Info: DG1PV101,4130-G.b,,all.sub,,3,

Volume Injected (uL): 1.0

Operator: 01891

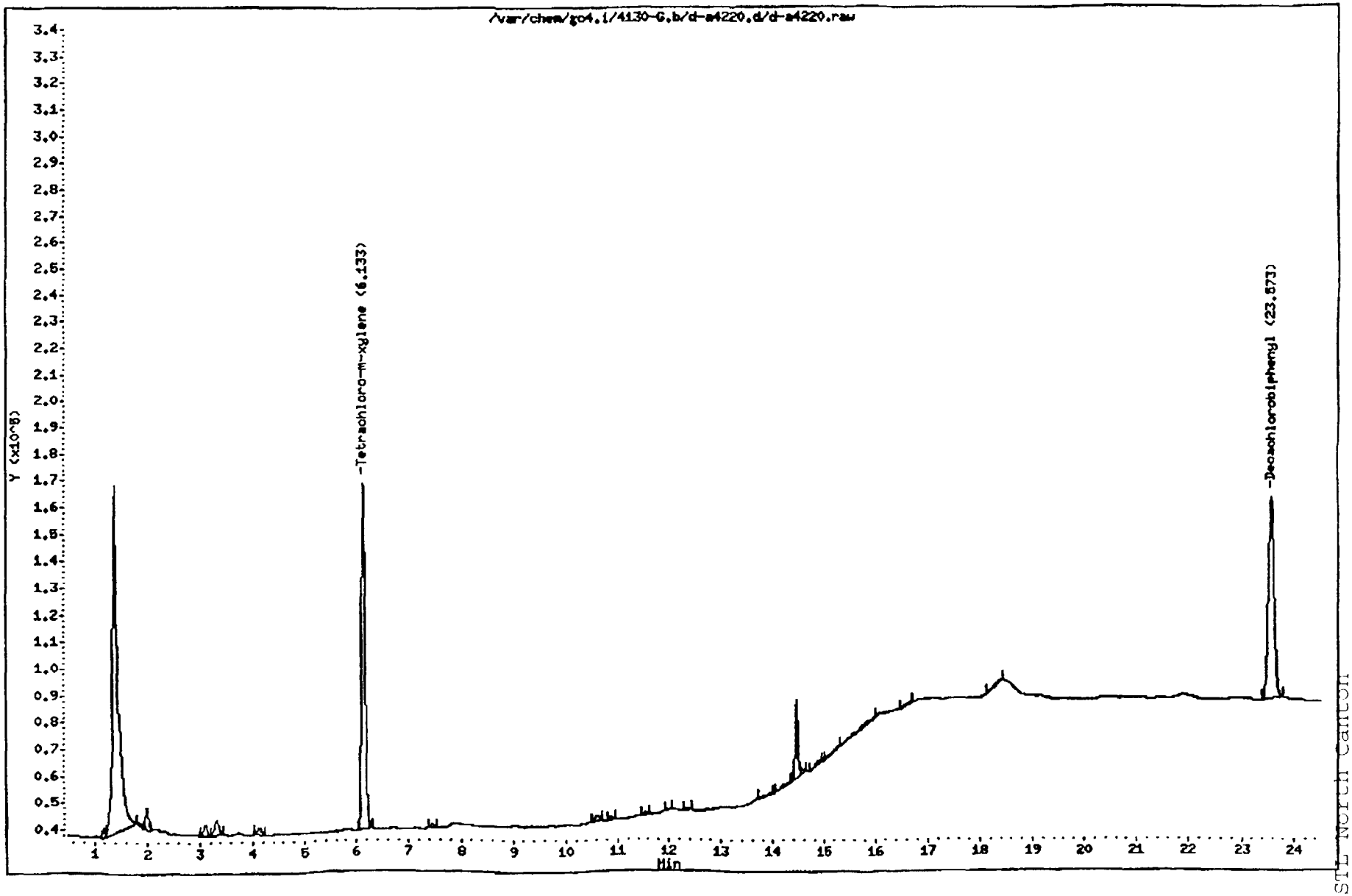
Column phase: DB608

Column diameter: 0.53



Data File: /var/chem/go4.i/4130-G.b/d-a4220.d
Date : 14-JUL-2000 10:13
Client ID: PBLK1
Sample Info: DG1PW101,4130-G.b,,all.sub,,3,
Volume Injected (uL): 1.0
Column phase: DB608

Instrument: go4.i
Operator: 01891
Column diameter: 0.53



STL North Canton

STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-b4220.d
Lab Smp Id: DG1PV101 Client Smp ID: PBLK1
Inj Date : 14-JUL-2000 10:13
Operator : 01891 Inst ID: gc4.i
Smp Info : DG1PV101,4130-G.b,,all.sub,,3,
Misc Info : 060146-BLK
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4B.m
Meth Date : 14-Jul-2000 12:14 g Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-b4199.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.40 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	GPC Correction factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.000	% Moisture

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
# 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.133	6.133	0.000	96149	0.03796	12.65	80.00- 120.00	100.00
2 Aroclor-1221					CAS #: 11104-28-2		

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

4 Aroclor-1232 CAS #: 11141-16-5

Peaks not detected for Quant. or Qual. signal(s).

---

5 alpha-BHC CAS #: 319-84-6

Compound Not Detected

---

3 Aroclor-1016 CAS #: 12674-11-2

Peaks not detected for Quant. or Qual. signal(s).

---

8 Aroclor-1242 CAS #: 53469-21-9

Peaks not detected for Quant. or Qual. signal(s).

---

6 gamma-BHC(Lindane) CAS #: 58-89-9

Compound Not Detected

---

9 Aroclor-1248 CAS #: 12672-29-6

Peaks not detected for Quant. or Qual. signal(s).

---

7 Heptachlor CAS #: 76-44-8

Compound Not Detected

---

10 Aldrin CAS #: 309-00-2

Compound Not Detected

---

11 beta-BHC CAS #: 319-85-7

Compound Not Detected

---

12 delta-BHC CAS #: 319-86-8

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

13 Heptachlor epoxide CAS #: 1024-57-3

Compound Not Detected

---

14 Aroclor-1254 CAS #: 11097-69-1

Peaks not detected for Quant. or Qual. signal(s).

---

15 Endosulfan I CAS #: 959-98-8

Compound Not Detected

---

16 gamma-Chlordane CAS #: 5103-74-2

Compound Not Detected

---

17 alpha-Chlordane CAS #: 5103-71-9

Compound Not Detected

---

18 4,4'-DDE CAS #: 72-55-9

Compound Not Detected

---

19 Dieldrin CAS #: 60-57-1

Compound Not Detected

---

21 Aroclor-1260 CAS #: 11096-82-5

Peaks not detected for Quant. or Qual. signal(s).

---

22 Endrin CAS #: 72-20-8

Compound Not Detected

---

20 Toxaphene CAS #: 8001-35-2

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
23 4,4'-DDD					CAS #: 72-54-8		

Compound Not Detected

---

24 Endosulfan II					CAS #: 33213-65-9		

Compound Not Detected

---

25 4,4'-DDT					CAS #: 50-29-3		

Compound Not Detected

---

26 Endrin aldehyde					CAS #: 7421-93-4		

Compound Not Detected

---

28 Methoxychlor					CAS #: 72-43-5		

Compound Not Detected

---

27 Endosulfan sulfate					CAS #: 1031-07-8		

Compound Not Detected

---

29 Endrin ketone					CAS #: 53494-70-5		

Compound Not Detected

$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
21.733	21.735	-0.002	84023	0.04289	14.30	80.00- 120.00	100.00

Data File: /var/chem/gc4.i/4130-G.b/d-b4220.d

Page 5

Date : 14-JUL-2000 10:13

Client ID: PBLK1

Instrument: gc4.i

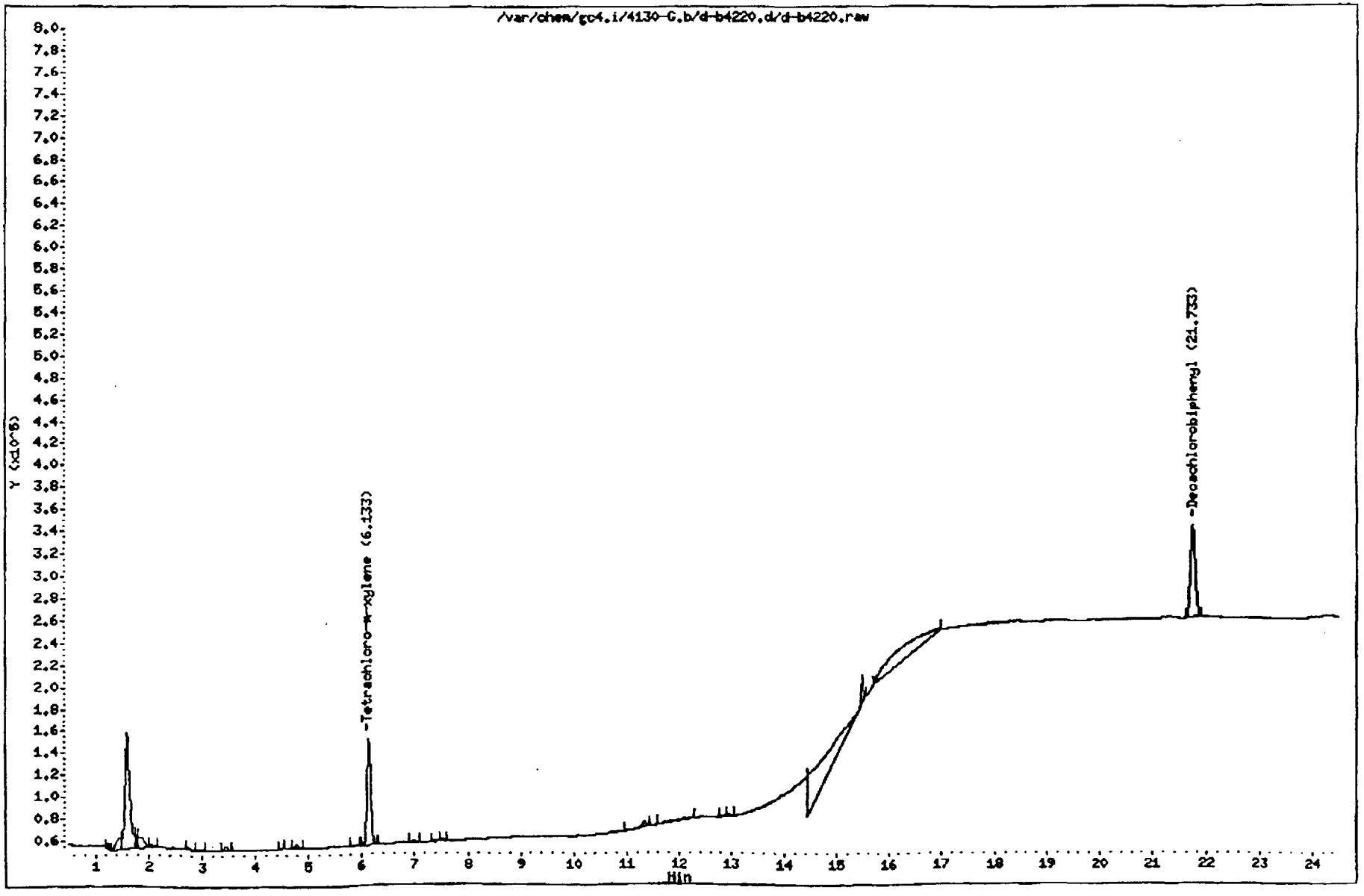
Sample Info: DG1PW101,4130-G.b,,all.sub,,3,

Volume Injected (uL): 1.0

Operator: 01891

Column phase: DB1701

Column diameter: 0.53



Data File: /var/chem/gc4.i/4130-G.b/d-b4220.d

Date : 14-JUL-2000 10:13

Client ID: PBLK1

Sample Info: DG1PV101,4130-G.b,,all.sub,,3,

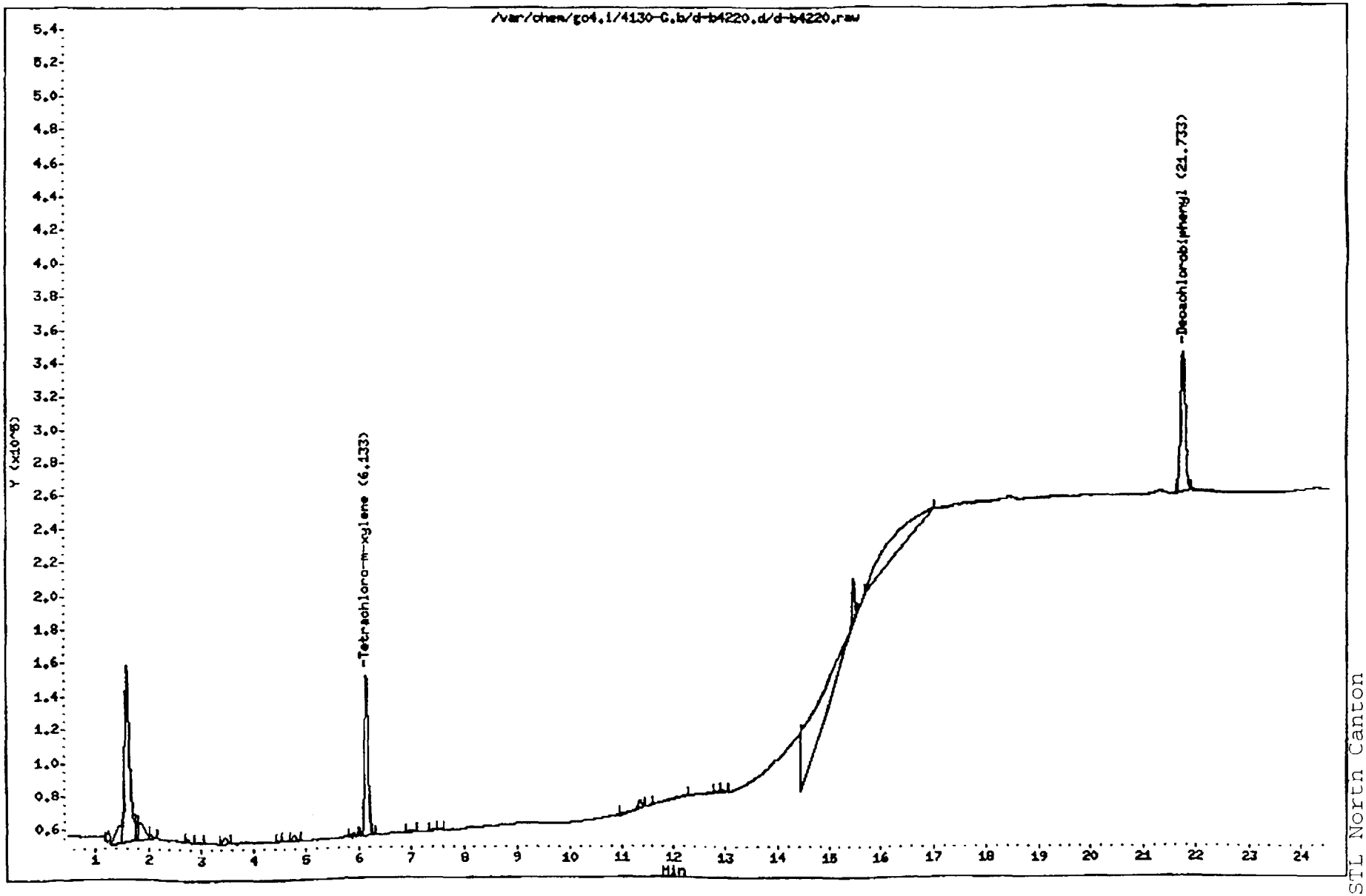
Volume Injected (uL): 1.0

Column phase: DB1701

Instrument: gc4.i

Operator: 01891

Column diameter: 0.53



1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLKHA

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: 40325 SDG No.: G06146

Matrix: (soil/water) WATER Lab Sample ID: PIBLKHA

Sample wt/vol: 1000 (g/mL) ML Lab File ID: D-A4200

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/14/00

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.05000	U
319-85-7	beta-BHC	0.05000	U
319-86-8	delta-BHC	0.05000	U
58-89-9	gamma-BHC(Lindane)	0.05000	U
76-44-8	Heptachlor	0.05000	U
309-00-2	Aldrin	0.05000	U
1024-57-3	Heptachlor epoxide	0.05000	U
959-98-8	Endosulfan I	0.05000	U
60-57-1	Dieldrin	0.1000	U
72-55-9	4,4'-DDE	0.1000	U
72-20-8	Endrin	0.1000	U
33213-65-9	Endosulfan II	0.1000	U
72-54-8	4,4'-DDD	0.1000	U
1031-07-8	Endosulfan sulfate	0.1000	U
50-29-3	4,4'-DDT	0.1000	U
72-43-5	Methoxychlor	0.5000	U
53494-70-5	Endrin ketone	0.1000	U
7421-93-4	Endrin aldehyde	0.1000	U
5103-71-9	alpha-Chlordane	0.05000	U
5103-74-2	gamma-Chlordane	0.05000	U
8001-35-2	Toxaphene	5.000	U
12674-11-2	Aroclor-1016	1.000	U
11104-28-2	Aroclor-1221	2.000	U
11141-16-5	Aroclor-1232	1.000	U
53469-21-9	Aroclor-1242	1.000	U
12672-29-6	Aroclor-1248	1.000	U
11097-69-1	Aroclor-1254	1.000	U
11096-82-5	Aroclor-1260	1.000	U

STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-a4200.d
Lab Smp Id: PIBLKHA Client Smp ID: PIBLKHA
Inj Date : 14-JUL-2000 01:00
Operator : 01891 Inst ID: gc4.i
Smp Info : PIBLKHA,4130-G.b,,all.sub,,3,
Misc Info : 190-81-9
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4A.m
Meth Date : 14-Jul-2000 10:10 matkol Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-a4199.d
Als bottle: 1 QC Sample: INSTBLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.40 Sample Matrix: WATER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.140	6.140	0.000	65669	0.01873	0.1873	80.00- 120.00	100.00
2 Aroclor-1221					CAS #: 11104-28-2		
Peaks not detected for Quant. or Qual. signal(s).							
3 Aroclor-1232					CAS #: 11141-16-5		
Peaks not detected for Quant. or Qual. signal(s).							

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO

4 Aroclor-1016 CAS #: 12674-11-2

Peaks not detected for Quant. or Qual. signal(s).

---

5 alpha-BHC CAS #: 319-84-6

Compound Not Detected

---

6 Aroclor-1242 CAS #: 53469-21-9

Peaks not detected for Quant. or Qual. signal(s).

---

7 gamma-BHC(Lindane) CAS #: 58-89-9

Compound Not Detected

---

8 beta-BHC CAS #: 319-85-7

Compound Not Detected

---

9 Heptachlor CAS #: 76-44-8

Compound Not Detected

---

10 Aroclor-1248 CAS #: 12672-29-6

Peaks not detected for Quant. or Qual. signal(s).

---

11 delta-BHC CAS #: 319-86-8

Compound Not Detected

---

12 Aldrin CAS #: 309-00-2

Compound Not Detected

---

13 Heptachlor epoxide CAS #: 1024-57-3

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO

14 gamma-Chlordane CAS #: 5103-74-2

Compound Not Detected

---

15 Aroclor-1254 CAS #: 11097-69-1

Peaks not detected for Quant. or Qual. signal(s).

---

16 alpha-Chlordane CAS #: 5103-71-9

Compound Not Detected

---

17 Endosulfan I CAS #: 959-98-8

Compound Not Detected

---

19 4,4'-DDE CAS #: 72-55-9

Compound Not Detected

---

20 Dieldrin CAS #: 60-57-1

Compound Not Detected

---

21 Aroclor-1260 CAS #: 11096-82-5

Peaks not detected for Quant. or Qual. signal(s).

---

22 Endrin CAS #: 72-20-8

Compound Not Detected

---

23 4,4'-DDD CAS #: 72-54-8

Compound Not Detected

---

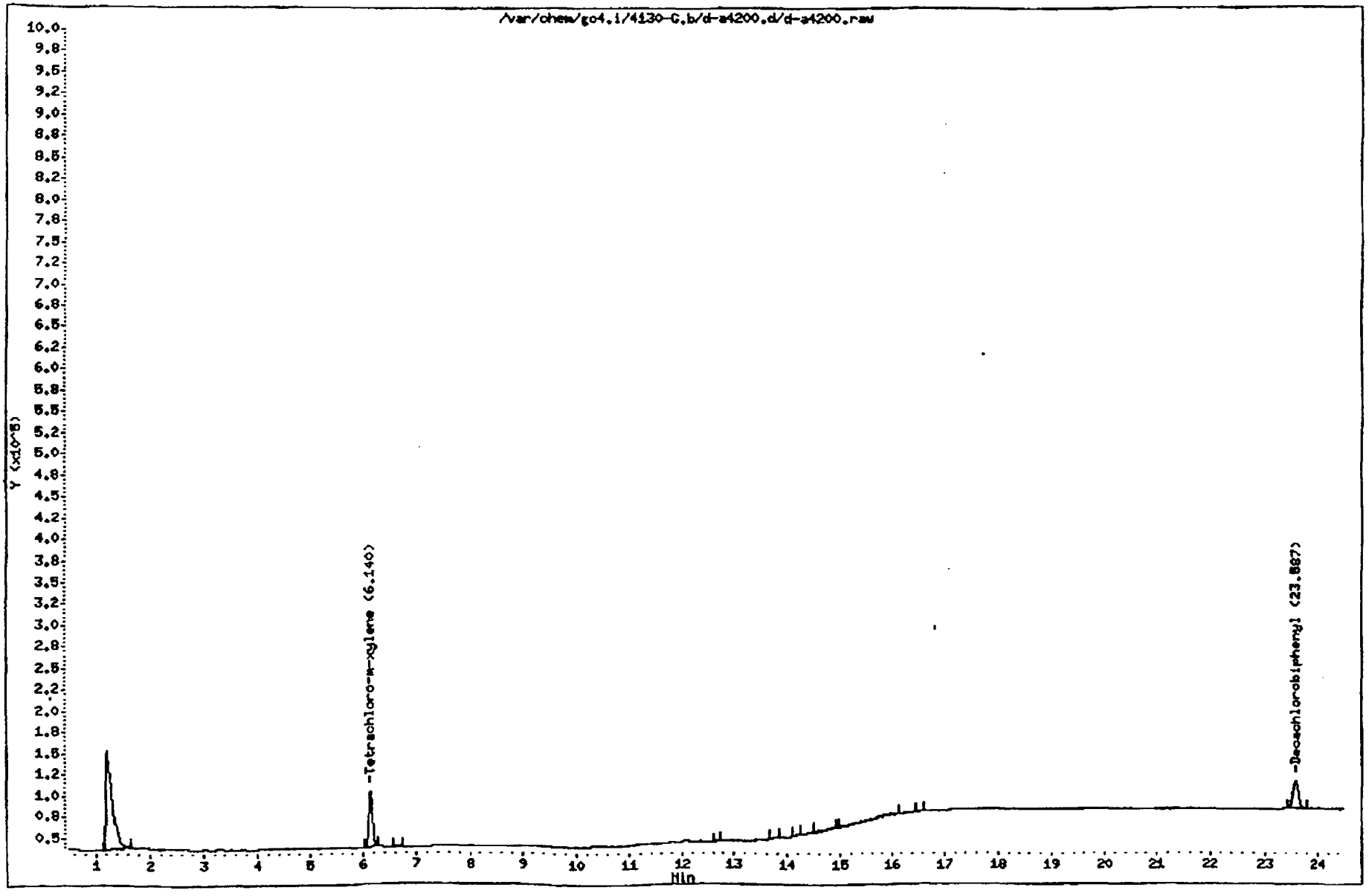
18 Toxaphene CAS #: 8001-35-2

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
24 Endosulfan II					CAS #: 33213-65-9		
Compound Not Detected							
25 4,4'-DDT					CAS #: 50-29-3		
Compound Not Detected							
26 Endrin aldehyde					CAS #: 7421-93-4		
Compound Not Detected							
27 Endosulfan sulfate					CAS #: 1031-07-8		
Compound Not Detected							
28 Methoxychlor					CAS #: 72-43-5		
Compound Not Detected							
29 Endrin ketone					CAS #: 53494-70-5		
Compound Not Detected							
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
23.587	23.587	0.000	32789	0.01872	0.1872	80.00- 120.00	100.00

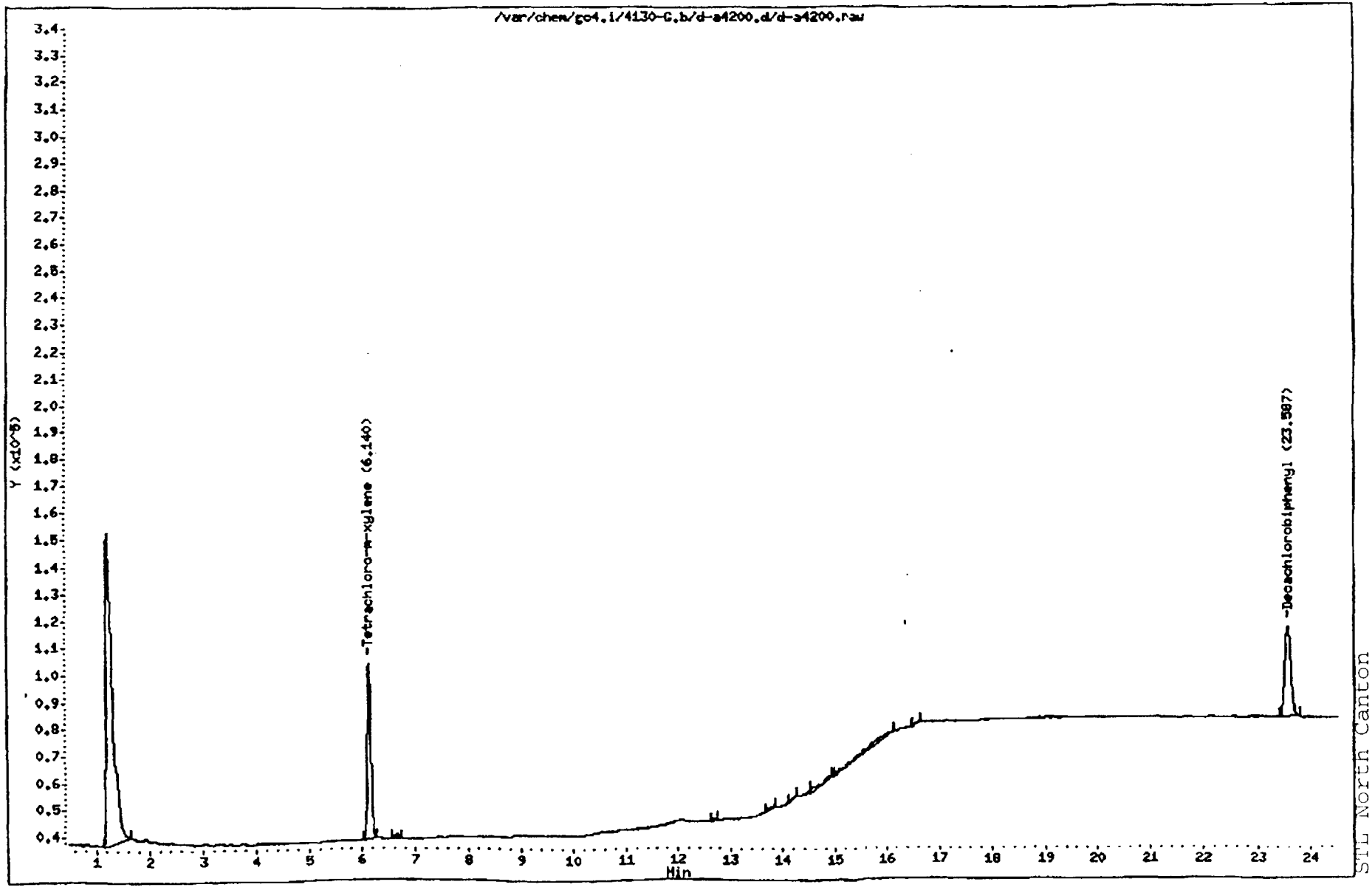
Data File: /var/chem/gc4.i/4130-C.b/d-a4200.d
Date : 14-JUL-2000 01:00
Client ID: PIBLKHA
Sample Info: PIBLKHA,4130-C.b,,all.sub,,3,
Volume Injected (uL): 1.0
Column phase: DB608

Instrument: gc4.i
Operator: 01891
Column diameter: 0.53



Data File: /var/chem/go4.i/4130-G.b/d-a4200.d
Date : 14-JUL-2000 01:00
Client ID: PIBLKHA
Sample Info: PIBLKHA,4130-G,b,,all.sub,,3,
Volume Injected (uL): 1.0
Column phase: DB608

Instrument: go4.i
Operator: 01891
Column diameter: 0.53



STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-b4200.d
Lab Smp Id: PIBLKHA Client Smp ID: PIBLKHA
Inj Date : 14-JUL-2000 01:00
Operator : 01891 Inst ID: gc4.i
Smp Info : PIBLKHA,4130-G.b,,all.sub,,3,
Misc Info : 190-81-9
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4B.m
Meth Date : 14-Jul-2000 10:49 matkol Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-b4199.d
Als bottle: 1 QC Sample: INSTBLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.40 Sample Matrix: WATER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.133	6.133	0.000	47213	0.01864	0.1864	80.00- 120.00	100.00

2 Aroclor-1221 CAS #: 11104-28-2

Peaks not detected for Quant. or Qual. signal(s).

4 Aroclor-1232 CAS #: 11141-16-5

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO

5 alpha-BHC CAS #: 319-84-6

Compound Not Detected

---

3 Aroclor-1016 CAS #: 12674-11-2

Peaks not detected for Quant. or Qual. signal(s).

---

8 Aroclor-1242 CAS #: 53469-21-9

Peaks not detected for Quant. or Qual. signal(s).

---

6 gamma-BHC(Lindane) CAS #: 58-89-9

Compound Not Detected

---

9 Aroclor-1248 CAS #: 12672-29-6

Peaks not detected for Quant. or Qual. signal(s).

---

7 Heptachlor CAS #: 76-44-8

Compound Not Detected

---

10 Aldrin CAS #: 309-00-2

Compound Not Detected

---

11 beta-BHC CAS #: 319-85-7

Compound Not Detected

---

12 delta-BHC CAS #: 319-86-8

Compound Not Detected

---

13 Heptachlor epoxide CAS #: 1024-57-3

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO

14 Aroclor-1254 CAS #: 11097-69-1

Peaks not detected for Quant. or Qual. signal(s).

---

15 Endosulfan I CAS #: 959-98-8

Compound Not Detected

---

16 gamma-Chlordane CAS #: 5103-74-2

Compound Not Detected

---

17 alpha-Chlordane CAS #: 5103-71-9

Compound Not Detected

---

18 4,4'-DDE CAS #: 72-55-9

Compound Not Detected

---

19 Dieldrin CAS #: 60-57-1

Compound Not Detected

---

21 Aroclor-1260 CAS #: 11096-82-5

Peaks not detected for Quant. or Qual. signal(s).

---

22 Endrin CAS #: 72-20-8

Compound Not Detected

---

20 Toxaphene CAS #: 8001-35-2

Peaks not detected for Quant. or Qual. signal(s).

---

23 4,4'-DDD CAS #: 72-54-8

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
24 Endosulfan II					CAS #: 33213-65-9		

Compound Not Detected

---

25 4,4'-DDT					CAS #: 50-29-3		

Compound Not Detected

---

26 Endrin aldehyde					CAS #: 7421-93-4		

Compound Not Detected

---

28 Methoxychlor					CAS #: 72-43-5		

Compound Not Detected

---

27 Endosulfan sulfate					CAS #: 1031-07-8		

Compound Not Detected

---

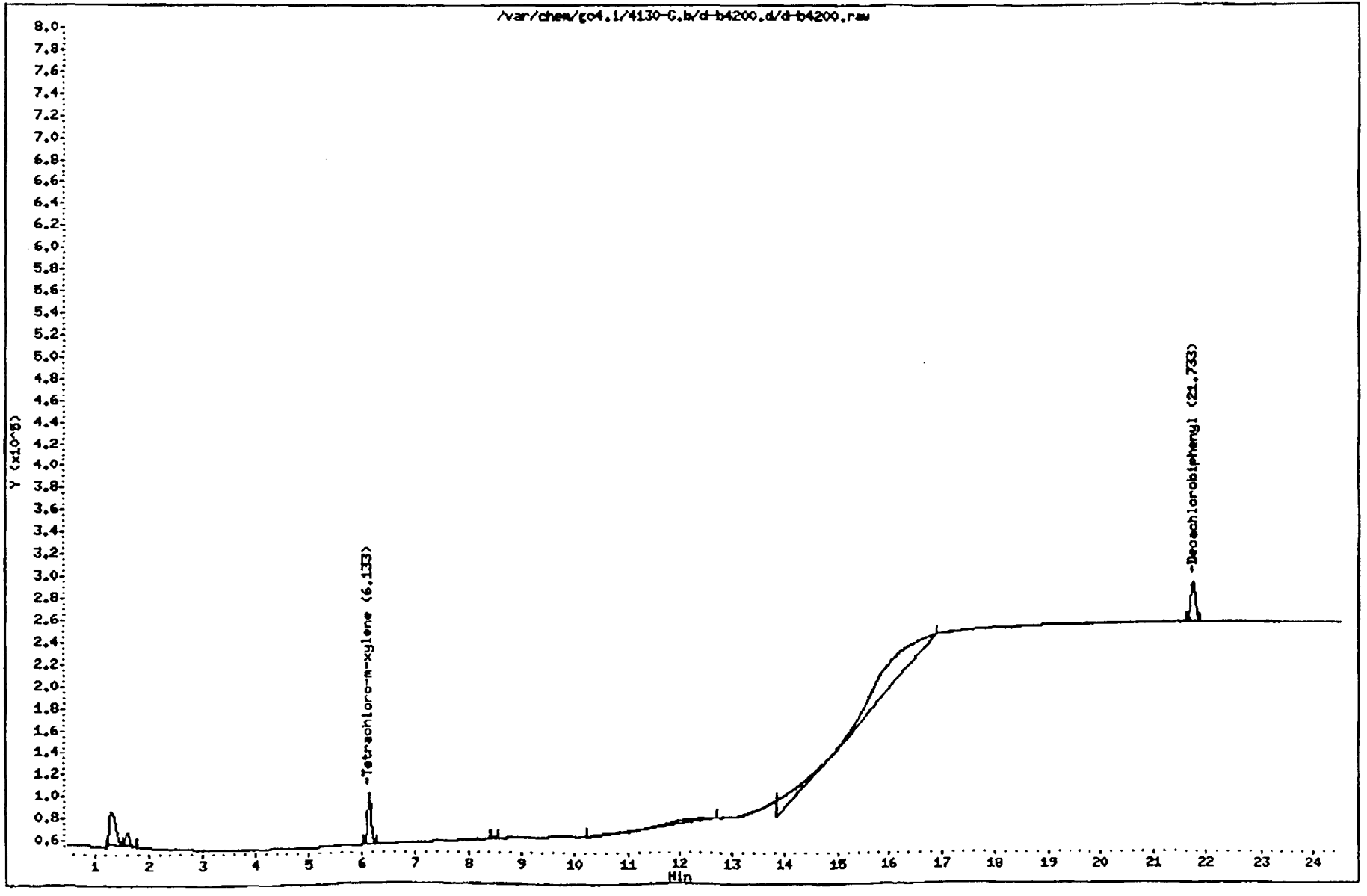
29 Endrin ketone					CAS #: 53494-70-5		

Compound Not Detected

$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
21.733	21.735	-0.002	36189	0.01847	0.1847	80.00- 120.00	100.00

Data File: /var/chem/go4.i/4130-G.b/d-b4200.d
Date : 14-JUL-2000 01:00
Client ID: PIBLKHA
Sample Info: PIBLKHA,4130-G.b,,all.sub,,3,
Volume Injected (uL): 1.0
Column phase: DB1701

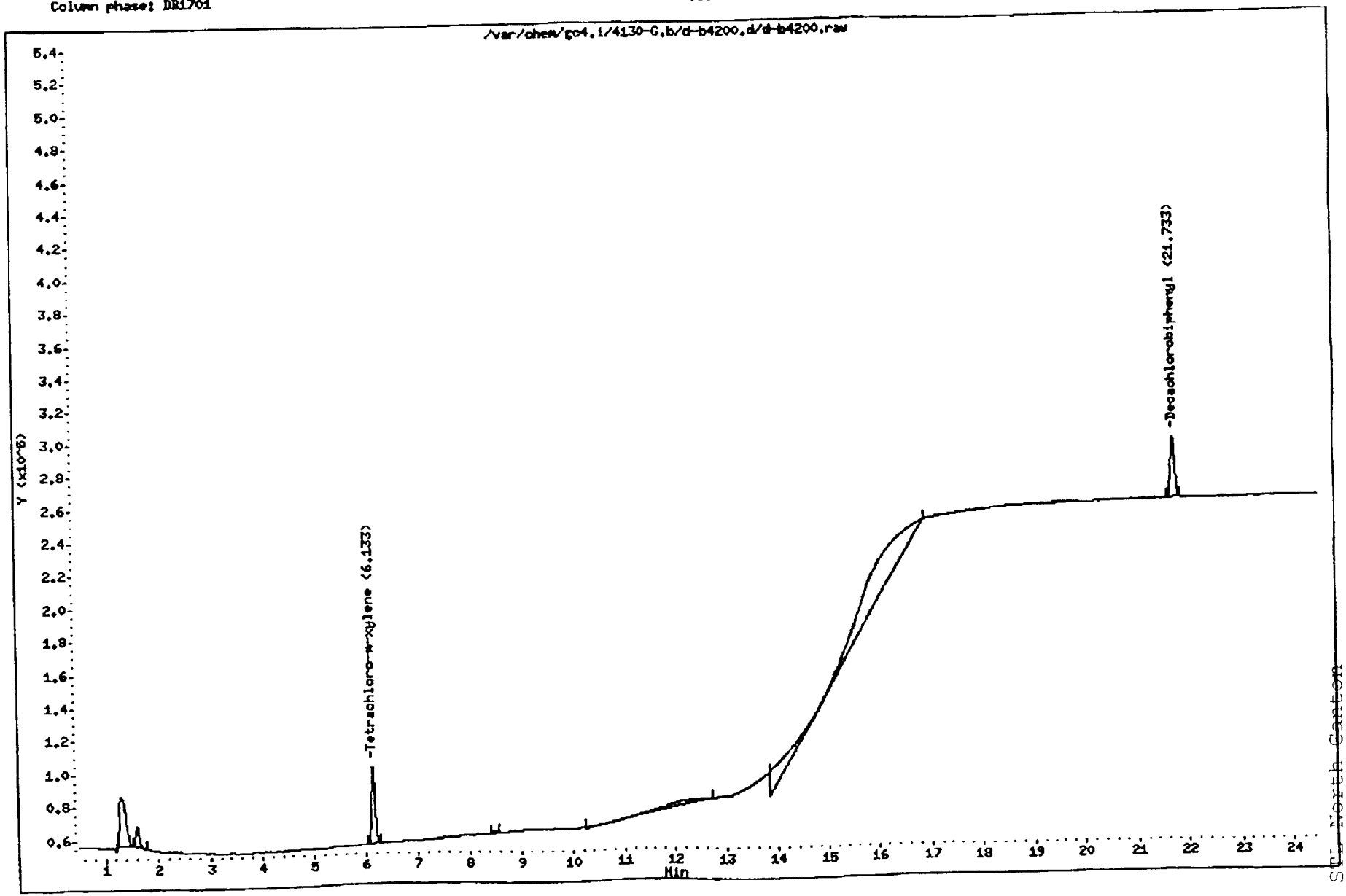
Instrument: go4.i
Operator: 01891
Column diameter: 0.53



Data File: /var/chem/gc4.i/4130-G.b/d-b4200.d
Date : 14-JUL-2000 01:00
Client ID: PIBLKHA
Sample Info: PIBLKHA,4130-G.b,,all,sub,,3,
Volume Injected (uL): 1.0
Column phase: DB1701

Instrument: gc4.i

Operator: 01891
Column diameter: 0.53



1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLKHB

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: 40325 SDG No.: G06146

Matrix: (soil/water) WATER Lab Sample ID: PIBLKHB

Sample wt/vol: 1000 (g/mL) ML Lab File ID: D-A4221

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/14/00

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.05000	U
319-85-7	beta-BHC	0.05000	U
319-86-8	delta-BHC	0.05000	U
58-89-9	gamma-BHC(Lindane)	0.05000	U
76-44-8	Heptachlor	0.05000	U
309-00-2	Aldrin	0.05000	U
1024-57-3	Heptachlor epoxide	0.05000	U
959-98-8	Endosulfan I	0.05000	U
60-57-1	Dieldrin	0.1000	U
72-55-9	4,4'-DDE	0.1000	U
72-20-8	Endrin	0.1000	U
33213-65-9	Endosulfan II	0.1000	U
72-54-8	4,4'-DDD	0.1000	U
1031-07-8	Endosulfan sulfate	0.1000	U
50-29-3	4,4'-DDT	0.1000	U
72-43-5	Methoxychlor	0.5000	U
53494-70-5	Endrin ketone	0.1000	U
7421-93-4	Endrin aldehyde	0.1000	U
5103-71-9	alpha-Chlordane	0.05000	U
5103-74-2	gamma-Chlordane	0.05000	U
8001-35-2	Toxaphene	5.000	U
12674-11-2	Aroclor-1016	1.000	U
11104-28-2	Aroclor-1221	2.000	U
11141-16-5	Aroclor-1232	1.000	U
53469-21-9	Aroclor-1242	1.000	U
12672-29-6	Aroclor-1248	1.000	U
11097-69-1	Aroclor-1254	1.000	U
11096-82-5	Aroclor-1260	1.000	U

STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-a4221.d
Lab Smp Id: PIBLKHB Client Smp ID: PIBLKHB
Inj Date : 14-JUL-2000 10:41
Operator : 01891 Inst ID: gc4.i
Smp Info : PIBLKHB,4130-G.b,,all.sub,,3,
Misc Info : 190-81-9
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4A.m
Meth Date : 14-Jul-2000 12:11 g Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-a4199.d
Als bottle: 1 QC Sample: INSTBLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.40 Sample Matrix: WATER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.133	6.140	-0.007	67131	0.01914	0.1914	80.00- 120.00	100.00

2 Aroclor-1221 CAS #: 11104-28-2

Peaks not detected for Quant. or Qual. signal(s).

3 Aroclor-1232 CAS #: 11141-16-5

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO

4 Aroclor-1016 CAS #: 12674-11-2

Peaks not detected for Quant. or Qual. signal(s).

---

5 alpha-BHC CAS #: 319-84-6

Compound Not Detected

---

6 Aroclor-1242 CAS #: 53469-21-9

Peaks not detected for Quant. or Qual. signal(s).

---

7 gamma-BHC(Lindane) CAS #: 58-89-9

Compound Not Detected

---

8 beta-BHC CAS #: 319-85-7

Compound Not Detected

---

9 Heptachlor CAS #: 76-44-8

Compound Not Detected

---

10 Aroclor-1248 CAS #: 12672-29-6

Peaks not detected for Quant. or Qual. signal(s).

---

11 delta-BHC CAS #: 319-86-8

Compound Not Detected

---

12 Aldrin CAS #: 309-00-2

Compound Not Detected

---

13 Heptachlor epoxide CAS #: 1024-57-3

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO

14 gamma-Chlordane CAS #: 5103-74-2

Compound Not Detected

---

15 Aroclor-1254 CAS #: 11097-69-1

Peaks not detected for Quant. or Qual. signal(s).

---

16 alpha-Chlordane CAS #: 5103-71-9

Compound Not Detected

---

17 Endosulfan I CAS #: 959-98-8

Compound Not Detected

---

19 4,4'-DDE CAS #: 72-55-9

Compound Not Detected

---

20 Dieldrin CAS #: 60-57-1

Compound Not Detected

---

21 Aroclor-1260 CAS #: 11096-82-5

Peaks not detected for Quant. or Qual. signal(s).

---

22 Endrin CAS #: 72-20-8

Compound Not Detected

---

23 4,4'-DDD CAS #: 72-54-8

Compound Not Detected

---

18 Toxaphene CAS #: 8001-35-2

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
24 Endosulfan II					CAS #: 33213-65-9		

Compound Not Detected

---

25 4,4'-DDT					CAS #: 50-29-3		

Compound Not Detected

---

26 Endrin aldehyde					CAS #: 7421-93-4		

Compound Not Detected

---

27 Endosulfan sulfate					CAS #: 1031-07-8		

Compound Not Detected

---

28 Methoxychlor					CAS #: 72-43-5		

Compound Not Detected

---

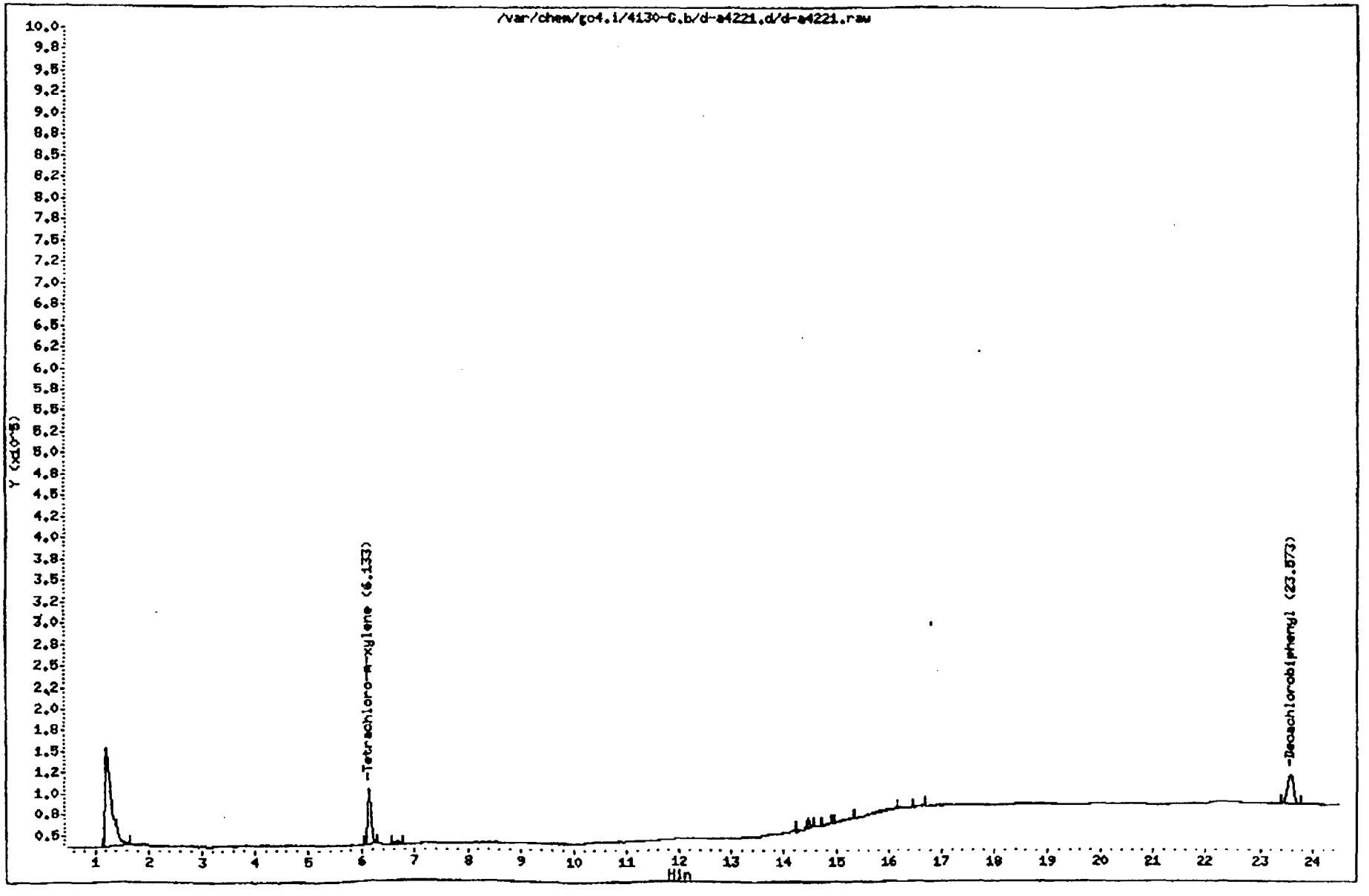
29 Endrin ketone					CAS #: 53494-70-5		

Compound Not Detected

$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
23.573	23.587	-0.014	33965	0.01940	0.1940	60.00- 120.00	100.00

Data File: /var/chem/go4.i/4130-G.b/d-a4221.d
Date : 14-JUL-2000 10:41
Client ID: PIBLKHB
Sample Info: PIBLKHB,4130-G.b,,all.sub,,3,
Volume Injected (uL): 1.0
Column phase: DB608

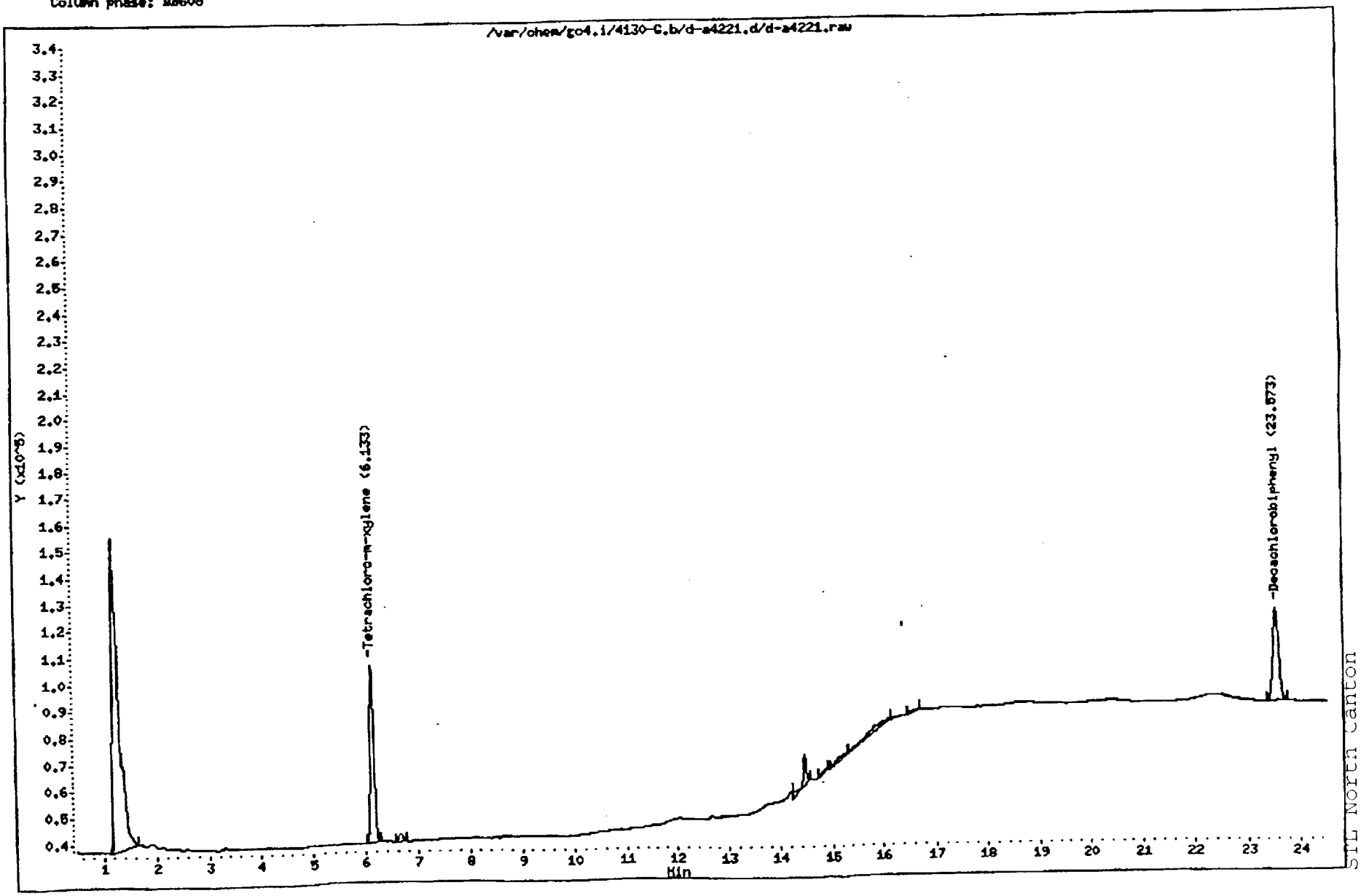
Instrument: go4.i
Operator: 01891
Column diameter: 0.53



Data File: /var/chem/go4.i/4130-G.b/d-a4221.d
Date : 14-JUL-2000 10:41
Client ID: PIBLKHB
Sample Info: PIBLKHB,4130-G.b,,all.sub,,3,
Volume Injected (uL): 1.0
Column phase: DB608

Instrument: go4.i

Operator: 01891
Column diameter: 0.53



STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-b4221.d
Lab Smp Id: PIBLKHB Client Smp ID: PIBLKHB
Inj Date : 14-JUL-2000 10:41
Operator : 01891 Inst ID: gc4.i
Smp Info : PIBLKHB,4130-G.b,,all.sub,,3,
Misc Info : 190-81-9
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4B.m
Meth Date : 14-Jul-2000 12:14 g Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-b4199.d
Als bottle: 1 QC Sample: INSTBLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.40 Sample Matrix: WATER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.133	6.133	0.000	47996	0.01895	0.1895	80.00- 120.00	100.00

2 Aroclor-1221 CAS #: 11104-28-2

Peaks not detected for Quant. or Qual. signal(s).

4 Aroclor-1232 CAS #: 11141-16-5

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO

5 alpha-BHC CAS #: 319-84-6

Compound Not Detected

---

3 Aroclor-1016 CAS #: 12674-11-2

Peaks not detected for Quant. or Qual. signal(s).

---

8 Aroclor-1242 CAS #: 53469-21-9

Peaks not detected for Quant. or Qual. signal(s).

---

6 gamma-BHC(Lindane) CAS #: 58-89-9

Compound Not Detected

---

9 Aroclor-1248 CAS #: 12672-29-6

Peaks not detected for Quant. or Qual. signal(s).

---

7 Heptachlor CAS #: 76-44-8

Compound Not Detected

---

10 Aldrin CAS #: 309-00-2

Compound Not Detected

---

11 beta-BHC CAS #: 319-85-7

Compound Not Detected

---

12 delta-BHC CAS #: 319-86-8

Compound Not Detected

---

13 Heptachlor epoxide CAS #: 1024-57-3

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO

14 Aroclor-1254 CAS #: 11097-69-1

Peaks not detected for Quant. or Qual. signal(s).

---

15 Endosulfan I CAS #: 959-98-8

Compound Not Detected

---

16 gamma-Chlordane CAS #: 5103-74-2

Compound Not Detected

---

17 alpha-Chlordane CAS #: 5103-71-9

Compound Not Detected

---

18 4,4'-DDE CAS #: 72-55-9

Compound Not Detected

---

19 Dieldrin CAS #: 60-57-1

Compound Not Detected

---

21 Aroclor-1260 CAS #: 11096-82-5

Peaks not detected for Quant. or Qual. signal(s).

---

22 Endrin CAS #: 72-20-8

Compound Not Detected

---

20 Toxaphene CAS #: 8001-35-2

Peaks not detected for Quant. or Qual. signal(s).

---

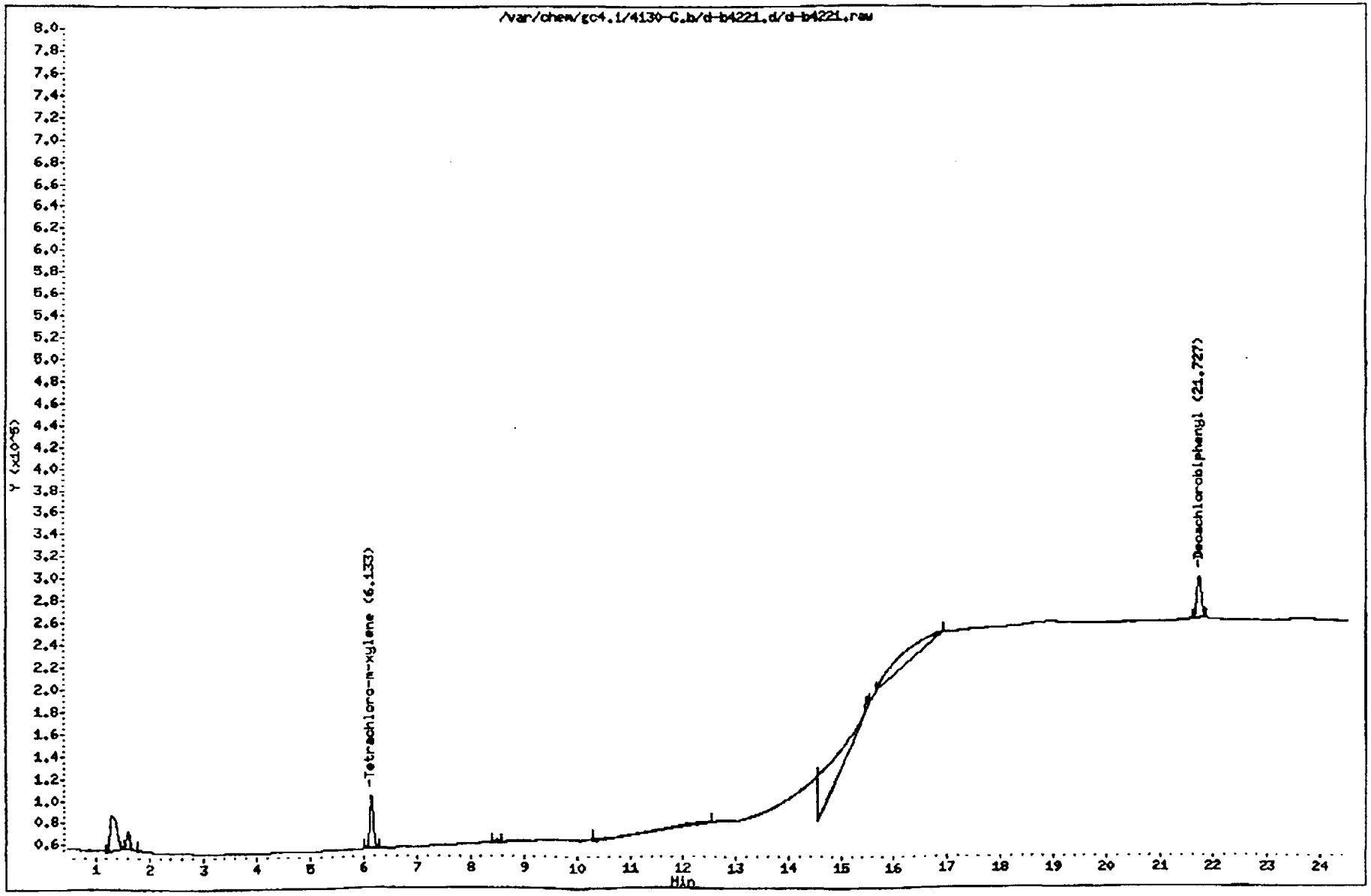
23 4,4'-DDD CAS #: 72-54-8

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
24 Endosulfan II					CAS #: 33213-65-9		
Compound Not Detected							
25 4,4'-DDT					CAS #: 50-29-3		
Compound Not Detected							
26 Endrin aldehyde					CAS #: 7421-93-4		
Compound Not Detected							
28 Methoxychlor					CAS #: 72-43-5		
Compound Not Detected							
27 Endosulfan sulfate					CAS #: 1031-07-8		
Compound Not Detected							
29 Endrin ketone					CAS #: 53494-70-5		
Compound Not Detected							
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
21.727	21.735	-0.008	37459	0.01912	0.1912	80.00- 120.00	100.00

Data File: /var/chem/gc4.i/4130-G.b/d-b4221.d
Date : 14-JUL-2000 10:41
Client ID: PIBLKHB
Sample Info: PIBLKHB,4130-G.b,,all.sub,,3,
Volume Injected (uL): 1.0
Column phase: DB1701

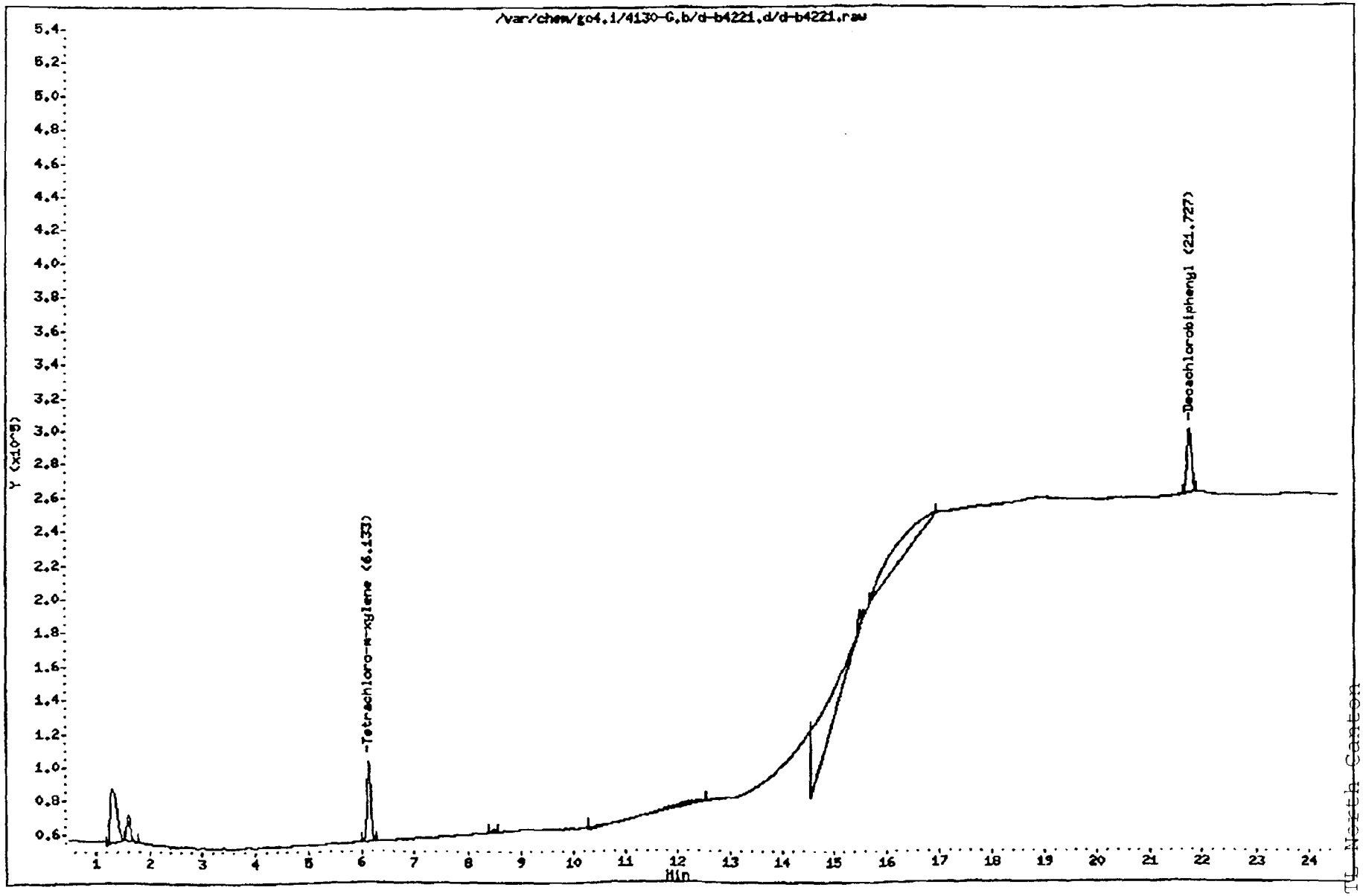
Instrument: gc4.i
Operator: 01891
Column diameter: 0.53



Data File: /var/chem/go4.i/4130-G.b/d-b4221.d
Date : 14-JUL-2000 10:41
Client ID: PIBLKHB
Sample Info: PIBLKHB,4130-G.b,,all.sub,,3,
Volume Injected (uL): 1.0
Column phase: DB1701

Instrument: go4.i

Operator: 01891
Column diameter: 0.53



RMT
MATRIX SPIKE COMPOUNDS

Lab Name:Severn Trent Laboratories, Inc. SDG Number:G06146

Matrix: (soil/water) SO Lab Sample ID:A0G060146 001
Method: OCLP OLM03.1
Pesticides/PCB (CLP-OLM03.1)

Sample WT/Vol: 30 / g Date Received: 07/06/00
Work Order: DFQLJ104 Date Extracted:07/11/00
Dilution factor: 5 Date Analyzed: 07/14/00
Moisture %:0.0

QC Batch: 0193481

Client Sample Id: SL12-1.0'

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	37	
60-57-1	Dieldrin	44	
76-44-8	Heptachlor	15	

FORM I

STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-a4203.d
Lab Smp Id: DFQLJ104 Client Smp ID: SL12-1.0MS
Inj Date : 14-JUL-2000 02:23
Operator : 01891 Inst ID: gc4.i
Smp Info : DFQLJ104,4130-G.b,,all.sub,5,3,
Misc Info : 060146-1S
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4A.m
Meth Date : 14-Jul-2000 10:10 matkol Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-a4199.d
Als bottle: 1 QC Sample: MS
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.40 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	5.000	Dilution Factor
Uf	2.000	GPC Correction factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.000	% Moisture

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.133	6.140	-0.007	25547	0.00728	13.14	80.00- 120.00	100.00
2 Aroclor-1221					CAS #: 11104-28-2		

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
3 Aroclor-1232					CAS #: 11141-16-5		

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
4 Aroclor-1016					CAS #: 12674-11-2		

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
5 alpha-BHC					CAS #: 319-84-6		

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
6 Aroclor-1242					CAS #: 53469-21-9		

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
7 gamma-BHC(Lindane)					CAS #: 58-89-9		
9.967	9.985	-0.002	29798	0.00859	14.22	80.00- 120.00	100.00

RT	EXP RT	DLT RT	RESPONSE	ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
8 beta-BHC					CAS #: 319-85-7		

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
9 Heptachlor					CAS #: 76-44-8		
11.240	11.243	-0.003	29449	0.00922	15.36	80.00- 120.00	100.00

RT	EXP RT	DLT RT	RESPONSE	ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
10 Aroclor-1248					CAS #: 12672-29-6		

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
11 delta-BHC					CAS #: 319-86-8		

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
12 Aldrin					CAS #: 309-00-2		
12.353	12.352	0.001	58097	0.02237	37.28	80.00- 120.00	100.00(R)

RT	EXP RT	DLT RT	RESPONSE	ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
13 Heptachlor epoxide					CAS #: 1024-57-3		

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
14 gamma-Chlordane					CAS #: 5103-74-2		
14.547	14.551	-0.004	54038	0.01709	28.48	80.00- 120.00	100.00

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
15 Aroclor-1254					CAS #: 11097-69-1		

Peaks not detected for Quant. or Qual. signal(s).

16 alpha-Chlordane					CAS #: 5103-71-9		
14.893	14.900	-0.007	12936	0.00418	6.959	80.00- 120.00	100.00(a)

17 Endosulfan I					CAS #: 959-98-8		

Compound Not Detected

19 4,4'-DDE					CAS #: 72-55-9		

Compound Not Detected

20 Dieldrin					CAS #: 60-57-1		
15.540	15.545	-0.005	98835	0.02673	44.56	80.00- 120.00	100.00

21 Aroclor-1260					CAS #: 11096-82-5		

Peaks not detected for Quant. or Qual. signal(s).

22 Endrin					CAS #: 72-20-8		
16.180	16.180	0.000	60257	0.02219	36.99	80.00- 120.00	100.00

23 4,4'-DDD					CAS #: 72-54-8		
16.327	16.327	0.000	20760	0.00689	11.48	80.00- 120.00	100.00(a)

18 Toxaphene					CAS #: 8001-35-2		

Peaks not detected for Quant. or Qual. signal(s).

24 Endosulfan II					CAS #: 33213-65-9		

Compound Not Detected

25 4,4'-DDT					CAS #: 50-29-3		
16.887	16.888	-0.001	57237	0.01969	32.82	80.00- 120.00	100.00

26 Endrin aldehyde					CAS #: 7421-93-4		

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
27 Endosulfan sulfate					CAS #: 1031-07-8		
Compound Not Detected							
28 Methoxychlor					CAS #: 72-43-5		
Compound Not Detected							
29 Endrin ketone					CAS #: 53494-70-5		
Compound Not Detected							
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
23.587	23.587	0.000	15500	0.00885	14.74	80.00- 120.00	100.00

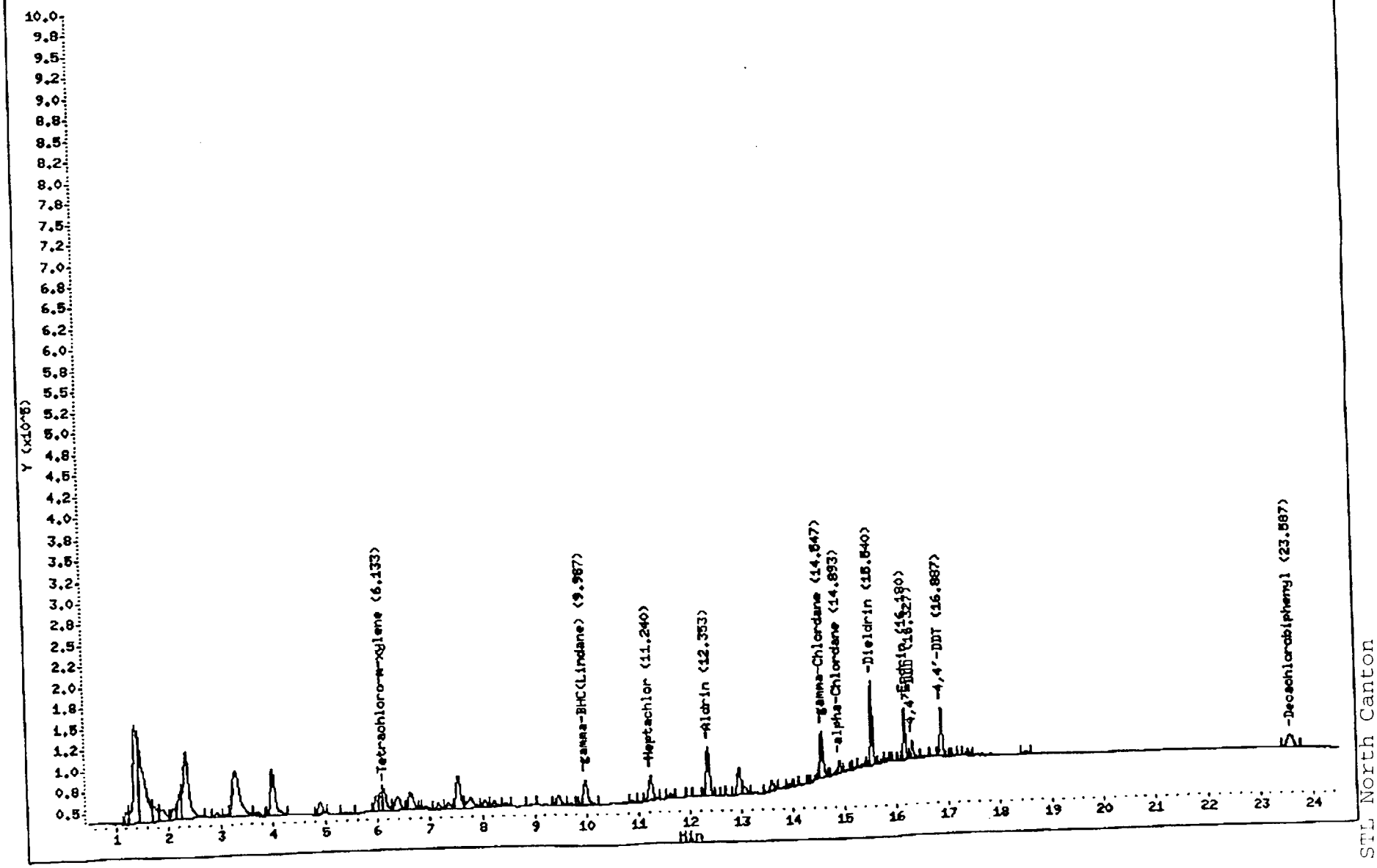
QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/go4.i/4130-G.b/d-a4203.d
Date : 14-JUL-2000 02:23
Client ID: SL12-1.0HS
Sample Info: DFQL3104,4130-G.b,,all.sub,5,3,
Volume Injected (uL): 1.0
Column phase: DB608

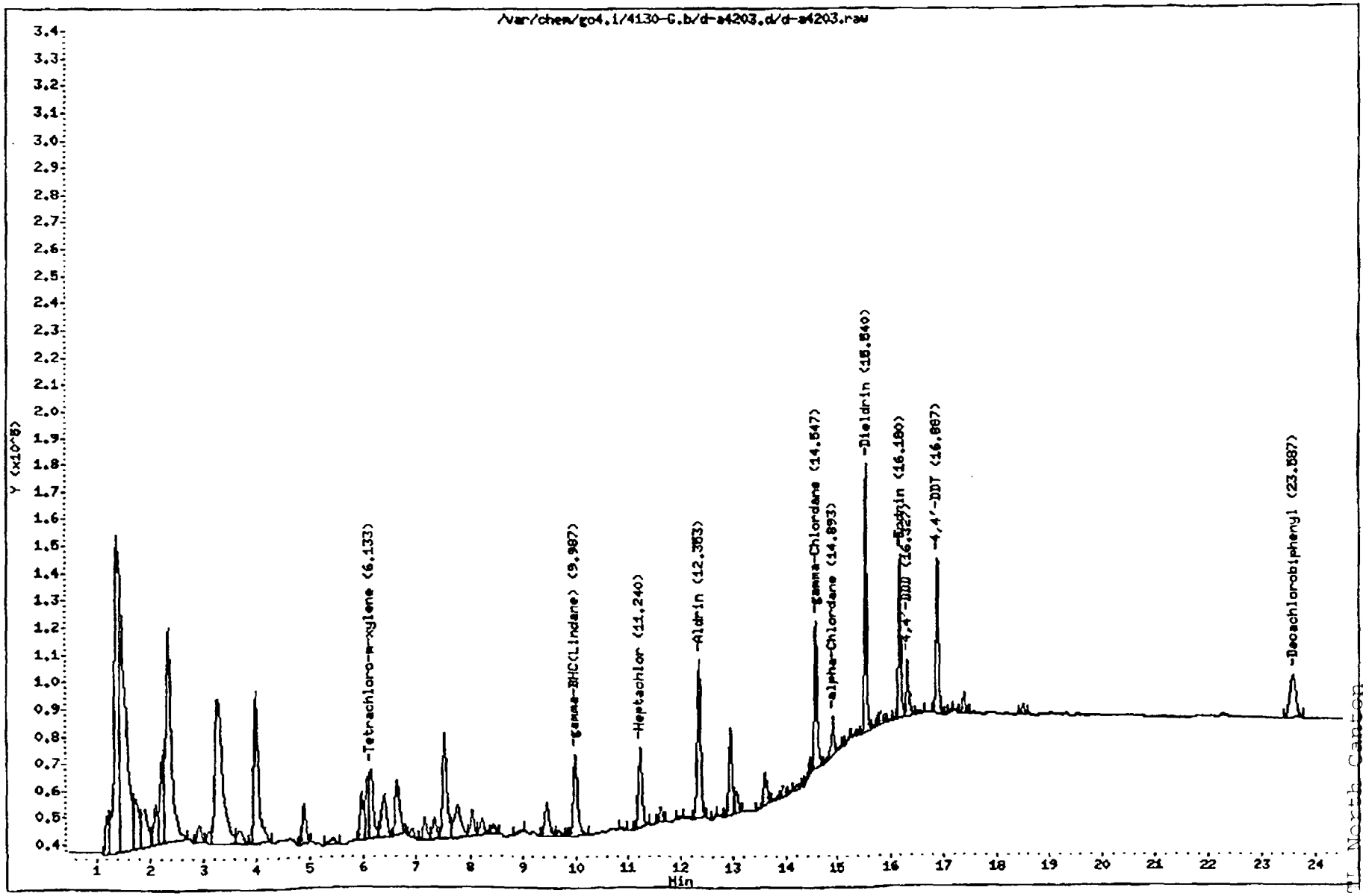
Instrument: go4.i
Operator: 01891
Column diameter: 0.53

/var/chem/go4.i/4130-G.b/d-a4203.d/d-a4203.raw



Data File: /var/chem/go4.i/4130-G.b/d-a4203.d
Date : 14-JUL-2000 02:23
Client ID: SL12-1.0HS
Sample Info: DFQLJ104,4130-G.b,,all.sub,5,3,
Volume Injected (uL): 1.0
Column phase: DB608

Instrument: go4.i
Operator: 01891
Column diameter: 0.53



STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-b4203.d
Lab Smp Id: DFQLJ104 Client Smp ID: SL12-1.0MS
Inj Date : 14-JUL-2000 02:23
Operator : 01891 Inst ID: gc4.i
Smp Info : DFQLJ104,4130-G.b,,all.sub,5,3,
Misc Info : 060146-1S
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4B.m
Meth Date : 14-Jul-2000 10:49 matkol Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-b4199.d
Als bottle: 1 QC Sample: MS
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.40 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	5.000	Dilution Factor
Uf	2.000	GPC Correction factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.000	% Moisture

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.127	6.133	-0.006	30827	0.01218	20.29	80.00- 120.00	100.00(R)
2 Aroclor-1221					CAS #: 11104-28-2		

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
4 Aroclor-1232					CAS #: 11141-16-5		

Peaks not detected for Quant. or Qual. signal(s).

---

5 alpha-BHC					CAS #: 319-84-6		

Compound Not Detected

---

3 Aroclor-1016					CAS #: 12674-11-2		

Peaks not detected for Quant. or Qual. signal(s).

---

8 Aroclor-1242					CAS #: 53469-21-9		

Peaks not detected for Quant. or Qual. signal(s).

---

6 gamma-BHC(Lindane)					CAS #: 58-89-9		
10.560	10.557	0.003	25660	0.00839	13.99	80.00- 120.00	100.00

---

9 Aroclor-1248					CAS #: 12672-29-6		

Peaks not detected for Quant. or Qual. signal(s).

---

7 Heptachlor					CAS #: 76-44-8		
11.367	11.368	-0.001	139663	0.00960	16.00	80.00- 120.00	100.00

---

10 Aldrin					CAS #: 309-00-2		
12.280	12.280	0.000	282259	0.02245	37.42	80.00- 120.00	100.00(R)

---

11 beta-BHC					CAS #: 319-85-7		

Compound Not Detected

---

12 delta-BHC					CAS #: 319-86-8		

Compound Not Detected

---

13 Heptachlor epoxide					CAS #: 1024-57-3		

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
14 Aroclor-1254					CAS #: 11097-69-1		
Peaks not detected for Quant. or Qual. signal(s).							
15 Endosulfan I					CAS #: 959-98-8		
Compound Not Detected							
16 gamma-Chlordane					CAS #: 5103-74-2		
14.973	14.972	0.001	59636	0.01774	29.56	80.00- 120.00	100.00
17 alpha-Chlordane					CAS #: 5103-71-9		
15.080	15.080	0.000	17962	0.00521	8.683	80.00- 120.00	100.00
18 4,4'-DDE					CAS #: 72-55-9		
Compound Not Detected							
19 Dieldrin					CAS #: 60-57-1		
15.567	15.565	0.002	101805	0.02670	44.49	80.00- 120.00	100.00
21 Aroclor-1260					CAS #: 11096-82-5		
Peaks not detected for Quant. or Qual. signal(s).							
22 Endrin					CAS #: 72-20-8		
15.907	15.908	-0.001	65487	0.02198	36.64	80.00- 120.00	100.00
20 Toxaphene					CAS #: 8001-35-2		
Peaks not detected for Quant. or Qual. signal(s).							
23 4,4'-DDD					CAS #: 72-54-8		
16.533	16.532	0.001	18967	0.00681	11.35	80.00- 120.00	100.00(m)
24 Endosulfan II					CAS #: 33213-65-9		
Compound Not Detected							
25 4,4'-DDT					CAS #: 50-29-3		
16.853	16.852	0.001	56193	0.01976	32.93	80.00- 120.00	100.00

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
26 Endrin aldehyde					CAS #: 7421-93-4		
Compound Not Detected							
28 Methoxychlor					CAS #: 72-43-5		
Compound Not Detected							
27 Endosulfan sulfate					CAS #: 1031-07-8		
Compound Not Detected							
29 Endrin ketone					CAS #: 53494-70-5		
Compound Not Detected							
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
21.723	21.736	-0.002	16581	0.00846	14.10	80.00- 120.00	100.00

QC Flag Legend

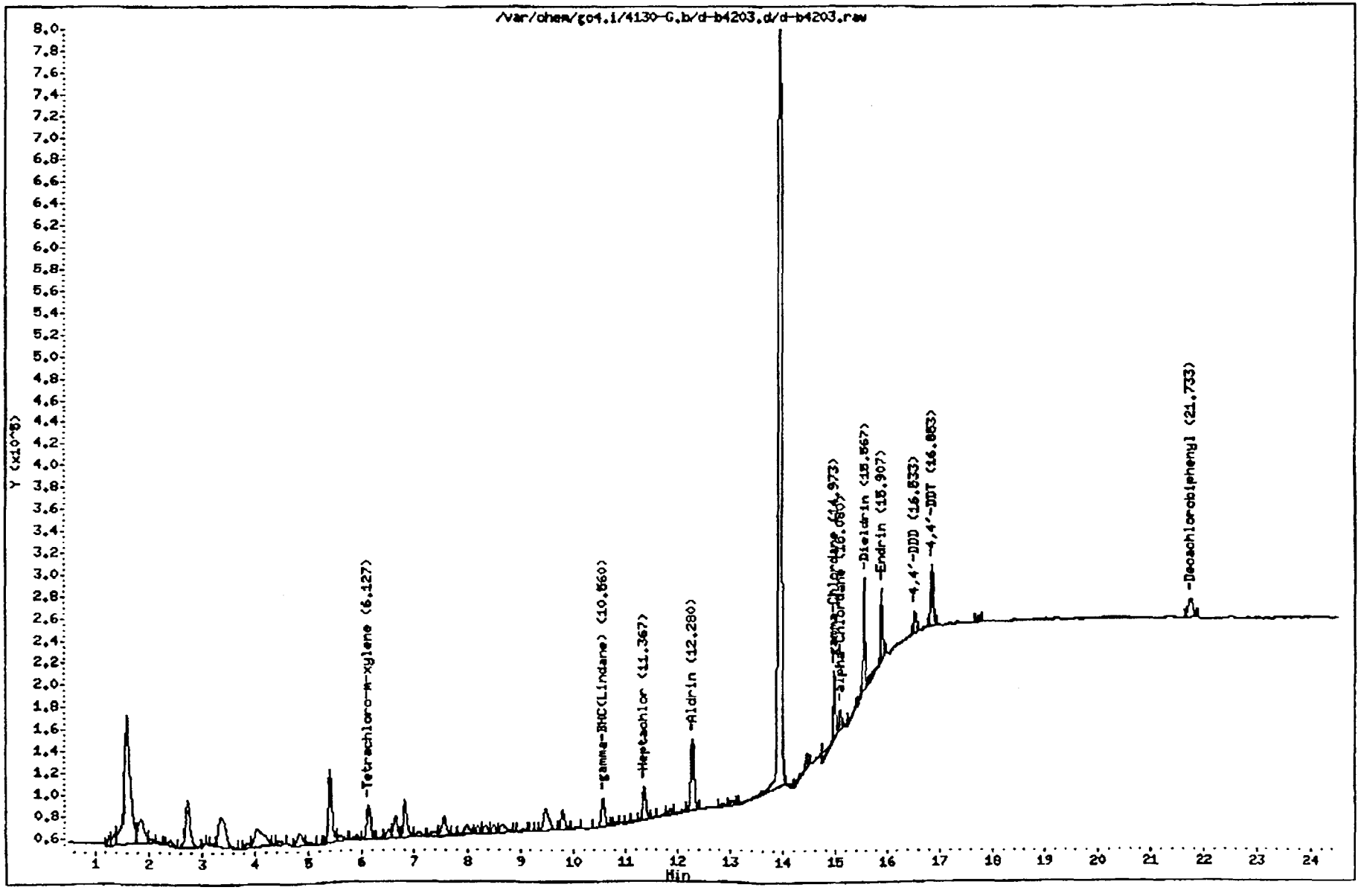
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/go4.i/4130-G.b/d-b4203.d
Date : 14-JUL-2000 02:23
Client ID: SL12-1.0HS
Sample Info: DFDL.H04,4130-G.b,,all.sub,5,3,
Volume Injected (uL): 1.0
Column phase: DB1701

Page 5

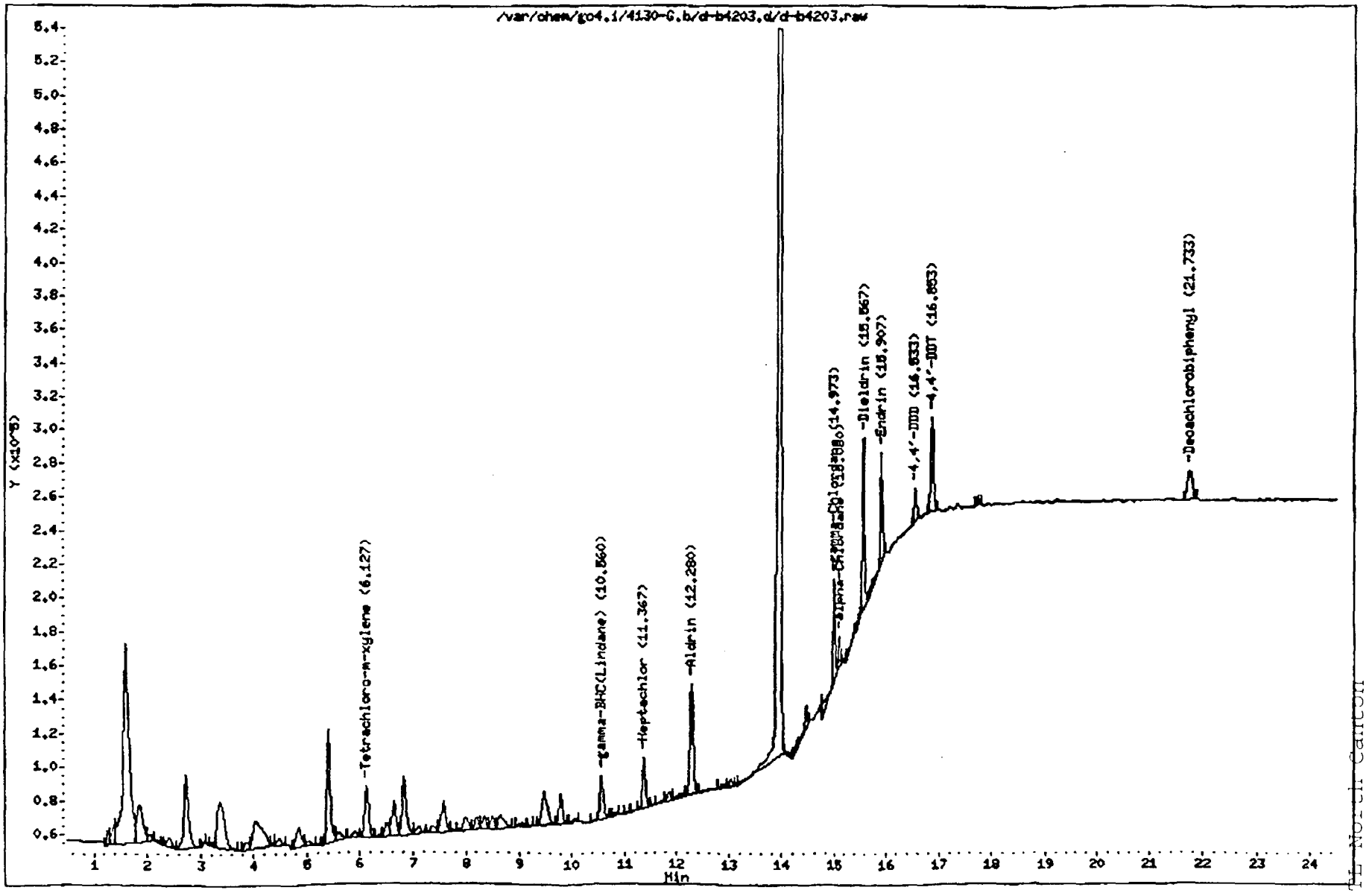
Instrument: go4.i

Operator: 01891
Column diameter: 0.53



Data File: /var/chem/go4.i/4130-G.b/d-b4203.d
Date : 14-JUL-2000 02:23
Client ID: SL12-1.0NS
Sample Info: DFQLJ104,4130-G.b,,all.sub,5,3,
Volume Injected (uL): 1.0
Column phase: DB1701

Instrument: go4.i
Operator: 01891
Column diameter: 0.53



10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SL12-1.0MS

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: 40325 SDG No.: G06146

Lab Sample ID: DFQLJ104 Date(s) Analyzed: 07/14/00 07/14/00

Instrument ID (1): GC4 Instrument ID (2): GC4

GC Column(1): DB608 ID: 0.53(mm) GC Column(2): DB1701 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-BHC(Lindane)	1	9.99	9.94	10.04	14.32	
	2	10.56	10.51	10.61	13.99	2.4
Heptachlor	1	11.24	11.19	11.29	15.36	
	2	11.37	11.32	11.42	16.00	4.2
Aldrin	1	12.35	12.30	12.40	37.28	
	2	12.28	12.23	12.33	37.42	0.4
Dieldrin	1	15.54	15.47	15.61	44.56	
	2	15.57	15.50	15.64	44.49	0.2
Endrin	1	16.18	16.11	16.25	36.99	
	2	15.91	15.84	15.98	36.64	1.0
4,4'-DDD	1	16.33	16.26	16.40	11.48	
	2	16.53	16.46	16.60	11.35	1.1
4,4'-DDT	1	16.89	16.82	16.96	32.82	
	2	16.85	16.78	16.92	32.93	0.3
alpha-Chlordane	1	14.89	14.83	14.97	6.959	
	2	15.08	15.01	15.15	8.683	24.8

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SL12-1.0MS

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: 40325 SDG No.: G06146

Lab Sample ID: DFQLJ104 Date(s) Analyzed: 07/14/00 07/14/00

Instrument ID (1): GC4 Instrument ID (2): GC4

GC Column(1): DB608 ID: 0.53(mm) GC Column(2): DB1701 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-Chlordane	1	14.55	14.48	14.62	28.48	
	2	14.97	14.90	15.04	29.56	3.8
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

RMT
MATRIX SPIKE DUPLICATE COMPOUNDS

Lab Name:Severn Trent Laboratories, Inc. SDG Number:G06146

Matrix: (soil/water) SO Lab Sample ID:A0G060146 001
Method: OCLP OLM03.1
Pesticides/PCB (CLP-OLM03.1)

Sample WT/Vol: 30 / g Date Received: 07/06/00
Work Order: DFQLJ105 Date Extracted:07/11/00
Dilution factor: 5 Date Analyzed: 07/14/00
Moisture %:0.0

QC Batch: 0193481

Client Sample Id: SL12-1.0'

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	38	
60-57-1	Dieldrin	47	
76-44-8	Heptachlor	16	

FORM I

STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-a4204.d
Lab Smp Id: DFQLJ105 Client Smp ID: SL12-1.0MSD
Inj Date : 14-JUL-2000 02:51
Operator : 01891 Inst ID: gc4.i
Smp Info : DFQLJ105,4130-G.b,,all.sub,5,3,
Misc Info : 060146-1D
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4A.m
Meth Date : 14-Jul-2000 10:10 matkol Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-a4199.d
Als bottle: 1 QC Sample: MSD
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.40 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	5.000	Dilution Factor
Uf	2.000	GPC Correction factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.000	% Moisture

	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
# 1 Tetrachloro-m-xylene						CAS #: 877-09-8		
	6.133	6.140	-0.007	26482	0.00755	12.59	80.00- 120.00	100.00
2 Aroclor-1221						CAS #: 11104-28-2		

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
3 Aroclor-1232					CAS #: 11141-16-5		

Peaks not detected for Quant. or Qual. signal(s).

---

4 Aroclor-1016					CAS #: 12674-11-2		

Peaks not detected for Quant. or Qual. signal(s).

---

5 alpha-BHC					CAS #: 319-84-6		

Compound Not Detected

---

6 Aroclor-1242					CAS #: 53469-21-9		

Peaks not detected for Quant. or Qual. signal(s).

---

7 gamma-BHC(Lindane)					CAS #: 58-89-9		
9.993	9.989	0.004	31322	0.00903	16.06	80.00- 120.00	100.00

---

8 beta-BHC					CAS #: 319-85-7		

Compound Not Detected

---

9 Heptachlor					CAS #: 76-44-8		
11.240	11.242	-0.002	21325	0.00981	16.34	80.00- 120.00	100.00

---

10 Aroclor-1248					CAS #: 12672-29-6		

Peaks not detected for Quant. or Qual. signal(s).

---

11 delta-BHC					CAS #: 319-86-8		

Compound Not Detected

---

12 Aldrin					CAS #: 309-00-2		
12.353	12.352	0.001	58693	0.02268	37.79	80.00- 120.00	100.00(R)

---

13 Heptachlor epoxide					CAS #: 1024-57-3		

Compound Not Detected

---

14 gamma-Chlordane					CAS #: 5103-74-2		
14.553	14.551	0.002	54207	0.01714	28.57	80.00- 120.00	100.00

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS CN-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
15 Aroclor-1254					CAS #: 11097-69-1		
Peaks not detected for Quant. or Qual. signal(s).							
16 alpha-Chlordane					CAS #: 5103-71-9		
14.893	14.900	-0.007	14702	0.00440	7.341	80.00- 120.00	100.00(m)
17 Endosulfan I					CAS #: 959-98-8		
Compound Not Detected							
19 4,4'-DDE					CAS #: 72-55-9		
Compound Not Detected							
20 Dieldrin					CAS #: 60-57-1		
15.540	15.545	-0.005	104122	0.02816	46.94	80.00- 120.00	100.00(R)
21 Aroclor-1260					CAS #: 11096-82-5		
Peaks not detected for Quant. or Qual. signal(s).							
22 Endrin					CAS #: 72-20-8		
16.180	16.180	0.000	64212	0.02365	39.42	80.00- 120.00	100.00
23 4,4'-DDD					CAS #: 72-54-8		
16.327	16.327	0.000	20866	0.00683	11.38	80.00- 120.00	100.00(a)
18 Toxaphene					CAS #: 8001-35-2		
Peaks not detected for Quant. or Qual. signal(s).							
24 Endosulfan II					CAS #: 33213-65-9		
Compound Not Detected							
25 4,4'-DDT					CAS #: 50-29-3		
16.887	16.888	-0.001	60991	0.02099	34.98	80.00- 120.00	100.00
26 Endrin aldehyde					CAS #: 7421-93-4		
Compound Not Detected							

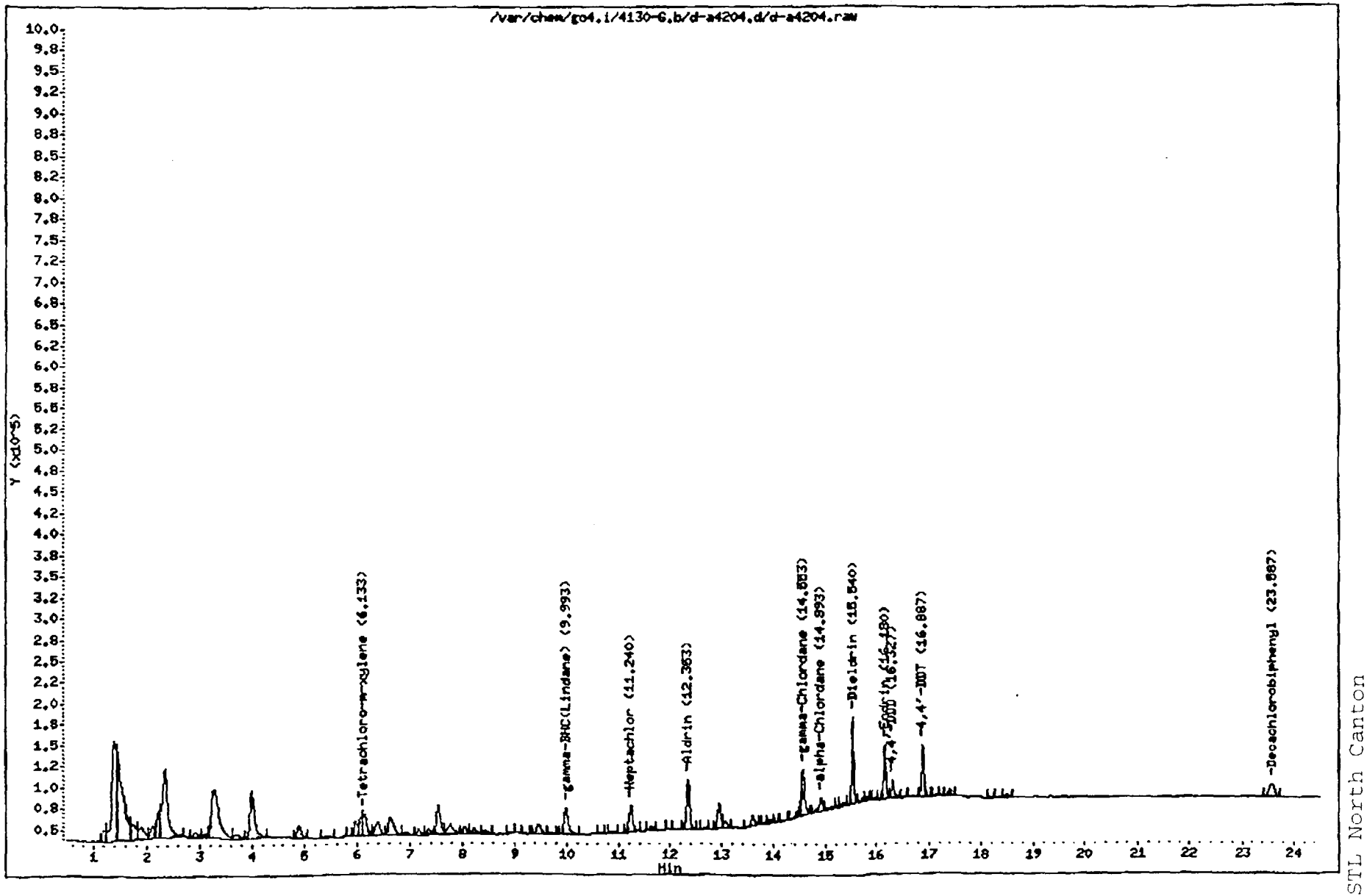
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
27 Endosulfan sulfate					CAS #: 1031-07-8		
Compound Not Detected							
28 Methoxychlor					CAS #: 72-43-5		
Compound Not Detected							
29 Endrin ketone					CAS #: 53494-70-5		
Compound Not Detected							
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
23.567	23.567	0.000	15546	0.00667	14.79	80.00- 120.00	100.00

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gc4.i/4130-G.b/d-a4204.d
Date : 14-JUL-2000 02:51
Client ID: SL12-1.OHSD
Sample Info: DFQLJ105,4130-G.b,,all.sub,5,3,
Volume Injected (uL): 1.0
Column phase: DB608

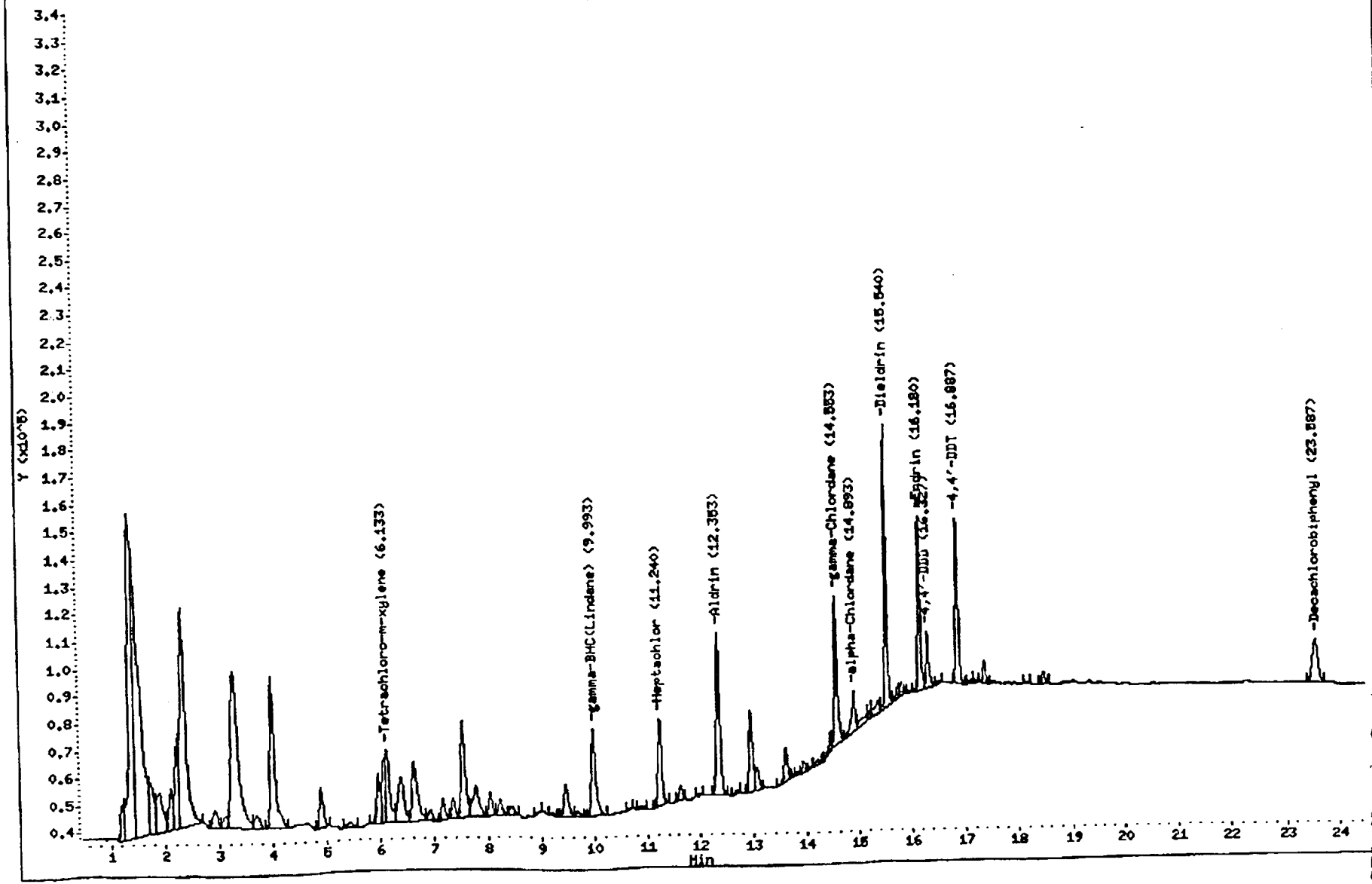
Instrument: gc4.i
Operator: 01891
Column diameter: 0.53



Data File: /var/chem/go4.i/4130-G.b/d-a4204.d
Date : 14-JUL-2000 02:51
Client ID: SL12-1.0HSD
Sample Info: DFQLJ105,4130-G.b,,all.sub,5,3,
Volume Injected (uL): 1.0
Column phase: DB608

Instrument: go4.i
Operator: 01891
Column diameter: 0.53

/var/chem/go4.i/4130-G.b/d-a4204.d/d-a4204.raw



STL-PITTSBURGH

Data file : /var/chem/gc4.i/4130-G.b/d-b4204.d
Lab Smp Id: DFQLJ105 Client Smp ID: SL12-1.0MSD
Inj Date : 14-JUL-2000 02:51
Operator : 01891 Inst ID: gc4.i
Smp Info : DFQLJ105,4130-G.b,,all.sub,5,3,
Misc Info : 060146-1D
Comment :
Method : /var/chem/gc4.i/4130-G.b/CLP4B.m
Meth Date : 14-Jul-2000 10:49 matkol Quant Type: ESTD
Cal Date : 14-JUL-2000 00:32 Cal File: d-b4199.d
Als bottle: 1 QC Sample: MSD
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.40 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	5.000	Dilution Factor
Uf	2.000	GPC Correction factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.000	% Moisture

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.127	6.133	-0.006	31066	0.01227	20.44	60.00- 120.00	100.00(R)
2 Aroclor-1221					CAS #: 11104-28-2		

Peaks not detected for Quant. or Qual. signal(s).

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
**	******	********	********	*******	*******	**********	*****

4 Aroclor-1232 CAS #: 11141-16-5

Peaks not detected for Quant. or Qual. signal(s).

---

5 alpha-BHC CAS #: 319-84-6

Compound Not Detected

---

3 Aroclor-1016 CAS #: 12674-11-2

Peaks not detected for Quant. or Qual. signal(s).

---

8 Aroclor-1242 CAS #: 53469-21-9

Peaks not detected for Quant. or Qual. signal(s).

---

6 gamma-BHC(Lindane) CAS #: 58-89-9

10.560	10.557	0.003	27640	0.00904	15.07	80.00- 120.00	100.00

---

9 Aroclor-1248 CAS #: 12672-29-6

Peaks not detected for Quant. or Qual. signal(s).

---

7 Heptachlor CAS #: 76-44-8

11.367	11.368	-0.001	150368	0.01034	17.23	80.00- 120.00	100.00

---

10 Aldrin CAS #: 309-00-2

12.280	12.280	0.000	292003	0.02331	38.84	80.00- 120.00	100.00(R)

---

11 beta-BHC CAS #: 319-85-7

Compound Not Detected

---

12 delta-BHC CAS #: 319-86-8

Compound Not Detected

---

13 Heptachlor epoxide CAS #: 1024-57-3

Compound Not Detected

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
14 Aroclor-1254					CAS #: 11097-69-1		
Peaks not detected for Quant. or Qual. signal(s).							
15 Endosulfan I					CAS #: 959-98-8		
Compound Not Detected							
16 gamma-Chlordane					CAS #: 5103-74-2		
14.973	14.972	0.001	58449	0.01738	28.97	80.00- 120.00	100.00
17 alpha-Chlordane					CAS #: 5103-71-9		
15.087	15.080	0.007	16998	0.00493	8.217	80.00- 120.00	100.00(m)
18 4,4'-DDE					CAS #: 72-55-9		
Compound Not Detected							
19 Dieldrin					CAS #: 60-57-1		
15.567	15.565	0.002	106508	0.02793	46.55	80.00- 120.00	100.00(R)
21 Aroclor-1260					CAS #: 11096-82-5		
Peaks not detected for Quant. or Qual. signal(s).							
22 Endrin					CAS #: 72-20-8		
15.907	15.908	-0.001	73016	0.02451	40.85	80.00- 120.00	100.00
20 Toxaphene					CAS #: 8001-35-2		
Peaks not detected for Quant. or Qual. signal(s).							
23 4,4'-DDD					CAS #: 72-54-8		
16.533	16.532	0.001	18132	0.00651	10.85	80.00- 120.00	100.00(m)
24 Endosulfan II					CAS #: 33213-65-9		
Compound Not Detected							
25 4,4'-DDT					CAS #: 50-29-3		
16.853	16.852	0.001	59357	0.02087	34.79	80.00- 120.00	100.00

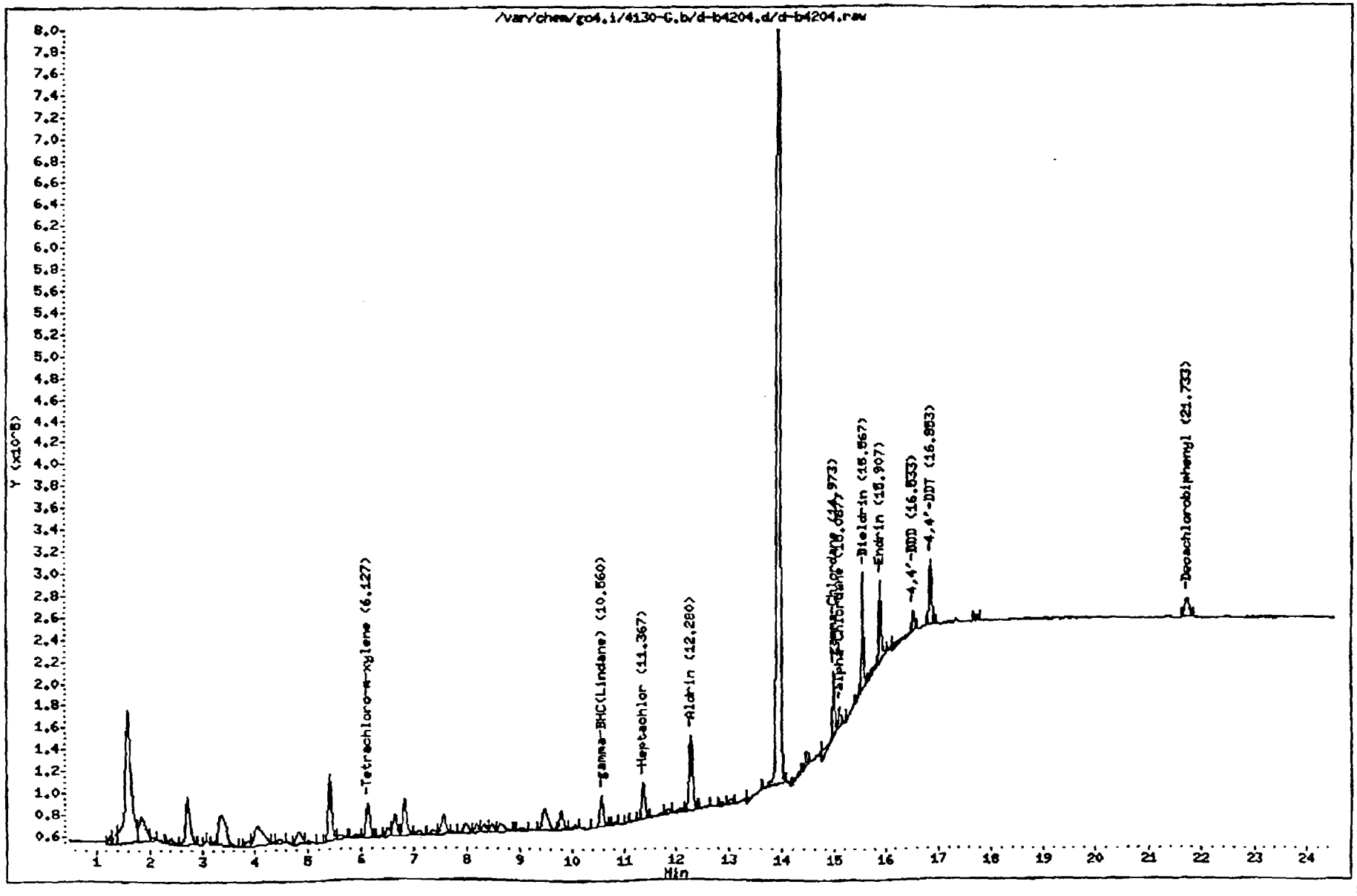
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (ug/Kg)	TARGET RANGE	RATIO
26 Endrin aldehyde					CAS #: 7421-93-4		
Compound Not Detected							
28 Methoxychlor					CAS #: 72-43-5		
Compound Not Detected							
27 Endosulfan sulfate					CAS #: 1031-07-8		
Compound Not Detected							
29 Endrin ketone					CAS #: 53494-70-5		
Compound Not Detected							
$ 30 Decachlorobiphenyl					CAS #: 2051-24-3		
21.733	21.735	-0.002	16966	0.00866	14.43	80.00- 120.00	100.00

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

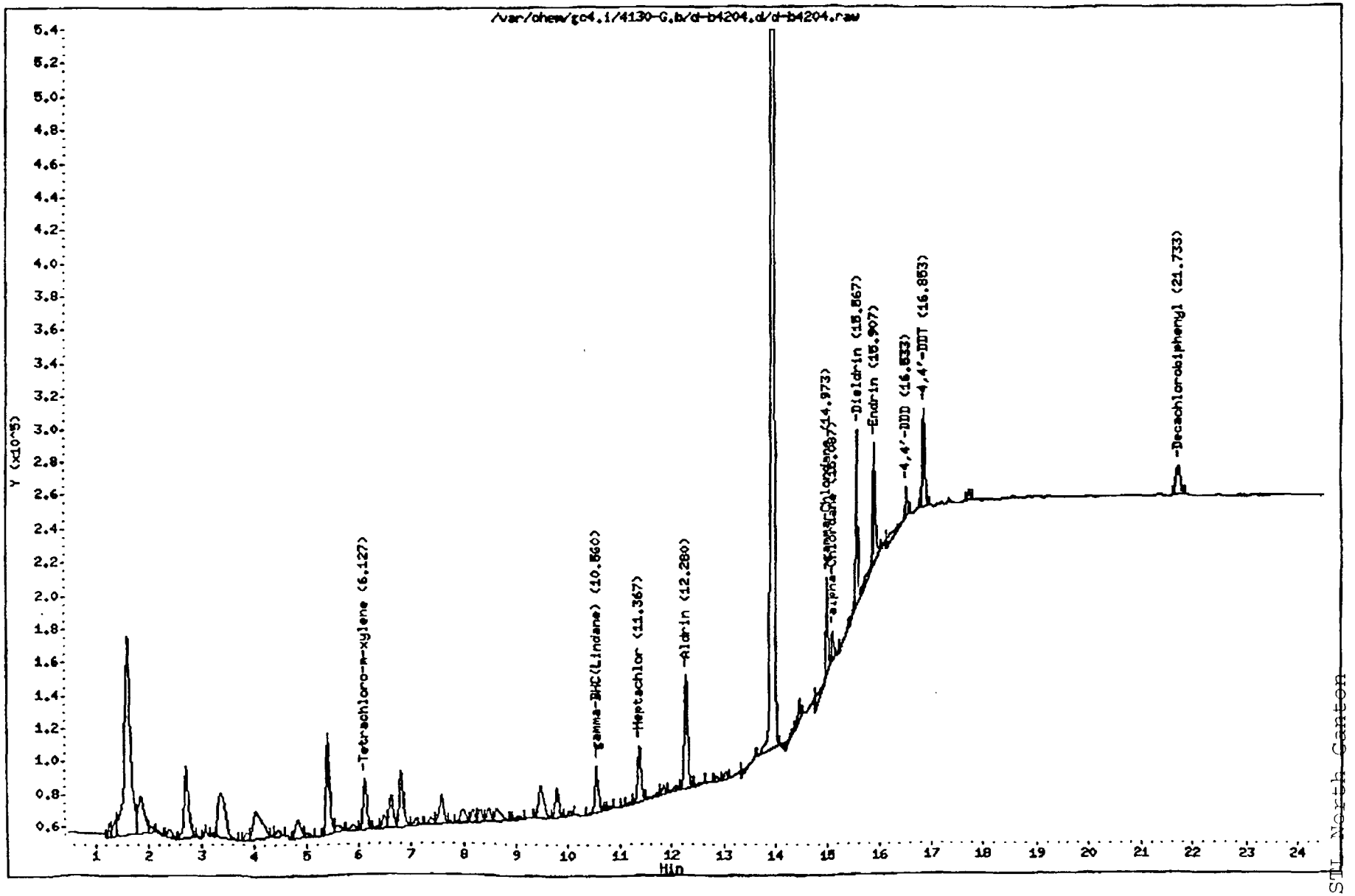
Data File: /var/chem/gc4.i/4130-G.b/d-b4204.d
Date : 14-JUL-2000 02:51
Client ID: SL12-1.OHSD
Sample Info: DFUL.H05,4130-G.b,,all,sub,5,3,
Volume Injected (uL): 1.0
Column phase: DB1701

Instrument: gc4.i
Operator: 01891
Column diameter: 0.53



Data File: /var/chem/gc4.i/4130-G.b/d-b4204.d
Date : 14-JUL-2000 02:51
Client ID: SL12-1.0HSD
Sample Info: DFQLJ105,4130-G.b,,all.sub,5,3,
Volume Injected (uL): 1.0
Column phase: DB1701

Instrument: gc4.i
Operator: 01891
Column diameter: 0.53



10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SL12-1.0MSD

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: 40325 SDG No.: G06146

Lab Sample ID: DFQLJ105 Date(s) Analyzed: 07/14/00 07/14/00

Instrument ID (1): GC4 Instrument ID (2): GC4

GC Column(1): DB608 ID: 0.53(mm) GC Column(2): DB1701 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-BHC(Lindane)	1	9.99	9.94	10.04	15.06	
	2	10.56	10.51	10.61	15.07	0.1
Heptachlor	1	11.24	11.19	11.29	16.34	
	2	11.37	11.32	11.42	17.23	5.4
Aldrin	1	12.35	12.30	12.40	37.79	
	2	12.28	12.23	12.33	38.84	2.8
Dieldrin	1	15.54	15.47	15.61	46.94	
	2	15.57	15.50	15.64	46.55	0.8
Endrin	1	16.18	16.11	16.25	39.42	
	2	15.91	15.84	15.98	40.85	3.6
4,4'-DDD	1	16.33	16.26	16.40	11.38	
	2	16.53	16.46	16.60	10.85	4.9
4,4'-DDT	1	16.89	16.82	16.96	34.98	
	2	16.85	16.78	16.92	34.79	0.5
alpha-Chlordane	1	14.89	14.83	14.97	7.341	
	2	15.09	15.01	15.15	8.217	11.9

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SL12-1.0MSD

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: 40325 SDG No.: G06146

Lab Sample ID: DFQLJ105 Date(s) Analyzed: 07/14/00 07/14/00

Instrument ID (1): GC4 Instrument ID (2): GC4

GC Column(1): DB608 ID: 0.53(mm) GC Column(2): DB1701 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-Chlordane	1	14.55	14.48	14.62	28.57	
	2	14.97	14.90	15.04	28.97	1.4
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1 OLM03.0

PESTICIDE / PCB
MISCELLANEOUS

FLORISIL CLEANUP

Sonication Extraction Worksheet

BF 0193481 Hexane N44249 Baker

STL Pittsburgh
450 William Pitt Way
Pittsburgh, PA 15238
412-820-8380

Start Date	Date Completed	Parameter	Method	Solvent	Solvent Lot	Solvent Mfg	GPC Number
7-11-00	7-12-00	CLP P/PCB	OLM03.1	MCC/Acetone	T19271/H451 T08465	Baker/mallinckrodt	"B"

	Lot Number	Sample ID	Client ID	Extract Weight (g)	Final Volume (mL)	Surrogate Number	Surrogate Volume (mL)	Matrix Spike No.	Matrix Spike Volume (mL)	GPC Date
1.	A0G060146	BLK	NA	30.0g	5.0	190-93-4	2.0ml	NA	NA	7-11-00
2.		001MS		30.0g				190-91-6	1.0ml	
3.		001MSD		30.0g						
4.		001		30.0g				NA	NA	
5.		002		30.0g						
6.		003		30.0g						
7.		004		30.0g						
8.		005		30.0g						
9.		006		30.0g						
10.		007		30.0g						
11.		008		30.0g						
12.		009		30.0g						
13.		010		30.0g						
14.		011		30.0g						
15.		012		30.0g						
16.		013		30.0g	5.0					
17.										
18.										
19.										
20.										
21.			B.P. 7-11-00							
22.										
23.										
24.										
Analyst	B.P.	B.P.	B.P.	B.P.	KG	B.P.	B.P.	B.P.	B.P.	B.P.

Extract(s) (Record line number from above)	Extract(s) Received Date	Time	Analyst	Location	Extract(s) Relinquished Date	Time	Analyst	Location
All Above	7-11-00	1555	[signature]	Org. Prep	7-11-00	1630	[signature]	GPC "B"
All Above	7-12-00	1045	[signature]	GPC "B"	7-12-00	1200	[signature]	Ref 1-GC
ALL ABOVE	7-12-00	1220	J. DERUBE(S)	RF 1GC	7-12-00	1250	J. DERUBE(S)	RF 1GC
					7-12-00			

Sodium Sulfate Mfg. Baker | Lot Number T23625 | Reviewed By [signature] | Date 7-12-00

LOGBOOK NUMBER: OP-00-0046

STL Northwest Center

STL North Canton

GPC Log Sheet

STL Pittsburgh
450 William Pitt Way
Pittsburgh, Pennsylvania 15238
412-820-8380

Committed To Your Success

Projects: AOG060146 | Collect: 18:18 | Dump 30:36 | Load 8.2 | Wash 10:00 | Inst ID "B"

Date 7-11-00	Run #	Lot #	Sample I.D.	Client ID	Pos. No.	Comments
1. 7-11-00	NA	AOG060146	BLK	NA	1	CLP P/PCB (OLM03.1)
2.			001MS		2	
3.			001MSD		3	
4.			001		4	
5.			002		5	
6.			003		6	
7.			004		7	
8.			005		8	
9.			006		9	
10.			007		10	
11.			008		11	
12.			009		12	
13.			010		13	
14.			011		14	
15.			012		15	
16.			013		16	
17.						
18.						
19.						
20.						
21.						
22.						
23.						
24.						
Analyst B.P.	B.P.	B.P.	B.P.	B.P.	B.P.	B.P.

B.P. 7-11-00

Comments:

Reviewed By: Ken [signature] Date: 7-12-00

550

Turbochrom Sequence File : H:\ACQUIRE\MET_SEQ\4130-G.SEQ
Created by : DE11/02/98 on : 7/14/00 09:09
Edited by : LM07/13/00 on : 7/17/00 08:18
Description : STL PGH PEST/PCB CLP RUN ON GC#4 DB608/DB1701
REVIEWED BY:

Number of Times Edited : 2

Sequence File Header Information:

Number of Rows : 54
Instrument Type : 760 / 900 Series Intelligent Interface
Injection Type : SINGLE

Sequence Sample Descriptions - Channel A

Row	Type	Sample Name	Sample Number	Study Name	Sample Amount	ISTD Amount	Sample Volume	Dil. Factor	Mult	Divisor	Addend	Norm. factor
1	Cal:Replace	RESCHA,4130-G.b	190-75-4	03/08/99	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
2	Ctrl Sample	PEMHA,4130-G.b,	190-87-13	03/08/99	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
3	Cal:Replace	AR1660HA,4130-G	190-80-14	03/08/99	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
4	Cal:Replace	AR1221HA,4130-G	190-81-1	03/08/99	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
5	Cal:Replace	AR1232HA,4130-G	190-81-2	03/08/99	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
6	Cal:Replace	AR1242HA,4130-G	190-81-3	03/08/99	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
7	Cal:Replace	AR1248HA,4130-G	190-81-4	03/08/99	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
8	Cal:Replace	AR1254HA,4130-G	190-81-5	03/08/99	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
9	Cal:Replace	TOXHA,4130-G.b,	190-81-6	03/08/99	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
10	Cal:Replace	INDALHA,4130-G.	190-82-1	03/08/99	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
11	Cal:Replace	INDBLHA,4130-G.	190-82-4	03/08/99	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
12	Cal:Replace	INDAMHA,4130-G.	190-82-2	03/08/99	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
13	Cal:Replace	INDBMHA,4130-G.	190-82-5	03/08/99	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
14	Cal:Replace	INDAHHA,4130-G.	190-82-3	03/08/99	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
15	Cal:Replace	INDBHHA,4130-G.	190-82-6	03/08/99	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
16	Std Check	PIBLKHA,4130-G.	190-81-9	03/08/99	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
17	Ctrl Sample	PEMHB,4130-G.b,	190-87-13	03/08/99	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
18	Sample	DFQLJ103,4130-G	060146-1	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
19	Sample	DFQLJ104,4130-G	060146-1S	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
20	Sample	DFQLJ105,4130-G	060146-1D	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
21	Sample	DFQPJ103,4130-G	060146-2	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
22	Sample	DFQPM103,4130-G	060146-3	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
23	Sample	DFQPW103,4130-G	060146-4	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
24	Sample	DFQQ0103,4130-G	060146-5	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
25	Sample	DFQQ3103,4130-G	060146-6	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
26	Sample	DFQQ4103,4130-G	060146-7	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
27	Sample	DFQQ4203,4130-G	060146-7DI	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
28	Sample	DFQQ5103,4130-G	060146-8	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
29	Sample	DFQQ5203,4130-G	060146-8DI	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
30	Sample	DFQQ9103,4130-G	060146-9	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
31	Sample	DFQQ9203,4130-G	060146-9DI	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
32	Sample	DFQQC103,4130-G	060146-10	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
33	Sample	DFQQN103,4130-G	060146-11	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
34	Sample	DFQQP103,4130-G	060146-12	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
35	Sample	DFQQT103,4130-G	060146-13	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
36	Sample	DG1PV101,4130-G	060146-BLK	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
37	Std Check	PIBLKHB,4130-G.	190-81-9	03/08/99	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
38	Std Check	INDAMHB,4130-G.	190-82-2	03/08/99	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
39	Std Check	INDBMHB,4130-G.	190-82-5	03/08/99	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
40	Sample	CRQLB77,4130-G.	GPCB7/7/00	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
41	Sample	PESTB77,4130-G.	GPCB7/7/00	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
42	Sample	PCBB77,4130-G.b	GPCB7/7/00	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
43	Sample	DFPDK101,4130-G	050128-9	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
44	Sample	DFPDT101,4130-G	050128-10	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
45	Sample	DFPDW101,4130-G	050128-11	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
46	Sample	DFPDW102,4130-G	050128-11S	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
47	Sample	DFPDW103,4130-G	050128-11D	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
48	Sample	DFPEP102,4130-G	050128-15	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
49	Sample	DFPF8102,4130-G	050128-19	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
50	Sample	DFPFG102,4130-G	050128-21	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
51	Sample	DFRGL101,4130-G	050128-BLK	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
52	Sample	DFRGL102,4130-G	050128-LCS	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
53	Std Check	PIBLKHB,4130-G.	190-81-9	03/08/99	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
54	Ctrl Sample	PEMHC,4130-G.b,	190-87-13	03/08/99	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000

Sequence Process Information - Channel A

Row Site Rack Vial Inst Process Calib Report Raw Result Baseline Modified Cal Level Update Out

				Method	Method	Method	Format	File	File	File	Raw File	Rpt	Name	RT	Dev
1	-	1	1	GEN4C	GEN4A	RCM4G	RCM	D-A4185	D-A4185		D-A4185	N	MED	N	LPT1:
2	-	1	1	GEN4C	GEN4A	PEM4G	PEM	D-A4186	D-A4186		D-A4186	-	-	-	LPT1:
3	-	1	1	GEN4C	GEN4A	166090G	166090	D-A4187	D-A4187		D-A4187	N	MED	N	LPT1:
4	-	1	1	GEN4C	GEN4A	122190G	122190	D-A4188	D-A4188		D-A4188	N	MED	N	LPT1:
5	-	1	1	GEN4C	GEN4A	123290G	123290	D-A4189	D-A4189		D-A4189	N	MED	N	LPT1:
6	-	1	1	GEN4C	GEN4A	124290G	124290	D-A4190	D-A4190		D-A4190	N	MED	N	LPT1:
7	-	1	1	GEN4C	GEN4A	124890G	124890	D-A4191	D-A4191		D-A4191	N	MED	N	LPT1:
8	-	1	1	GEN4C	GEN4A	125490G	125490	D-A4192	D-A4192		D-A4192	N	MED	N	LPT1:
9	-	1	1	GEN4C	GEN4A	TOX90G	TOX90	D-A4193	D-A4193		D-A4193	N	MED	N	LPT1:
10	-	1	1	GEN4C	GEN4A	EPAAG	INDA90	D-A4194	D-A4194		D-A4194	N	LOW	Y	LPT1:
11	-	1	1	GEN4C	GEN4A	EPABG	INDB90	D-A4195	D-A4195		D-A4195	N	LOW	Y	LPT1:
12	-	1	1	GEN4C	GEN4A	EPAMEDAG	INDA90	D-A4196	D-A4196		D-A4196	N	MED	Y	LPT1:
13	-	1	1	GEN4C	GEN4A	EPAMEDBG	INDB90	D-A4197	D-A4197		D-A4197	N	MED	Y	LPT1:
14	-	1	1	GEN4C	GEN4A	EPAAG	INDA90	D-A4198	D-A4198		D-A4198	N	HIGH	Y	LPT1:
15	-	1	1	GEN4C	GEN4A	EPABG	INDB90	D-A4199	D-A4199		D-A4199	N	HIGH	Y	LPT1:
16	-	1	1	GEN4C	GEN4A	SAMP904G	90H20	D-A4200	D-A4200		D-A4200	-	-	-	LPT1:
17	-	1	1	GEN4C	GEN4A	PEM4G	PEM	D-A4201	D-A4201		D-A4201	-	-	-	LPT1:
18	-	1	1	GEN4C	GEN4A	SAMP904G	90H20	D-A4202	D-A4202		D-A4202	-	-	-	LPT1:
19	-	1	1	GEN4C	GEN4A	SAMP904G	90H20	D-A4203	D-A4203		D-A4203	-	-	-	LPT1:
20	-	1	1	GEN4C	GEN4A	SAMP904G	90H20	D-A4204	D-A4204		D-A4204	-	-	-	LPT1:
21	-	1	1	GEN4C	GEN4A	SAMP904G	90H20	D-A4205	D-A4205		D-A4205	-	-	-	LPT1:
22	-	1	1	GEN4C	GEN4A	SAMP904G	90H20	D-A4206	D-A4206		D-A4206	-	-	-	LPT1:
23	-	1	1	GEN4C	GEN4A	SAMP904G	90H20	D-A4207	D-A4207		D-A4207	-	-	-	LPT1:
24	-	1	1	GEN4C	GEN4A	SAMP904G	90H20	D-A4208	D-A4208		D-A4208	-	-	-	LPT1:
25	-	1	1	GEN4C	GEN4A	SAMP904G	90H20	D-A4209	D-A4209		D-A4209	-	-	-	LPT1:
26	-	1	1	GEN4C	GEN4A	SAMP904G	90H20	D-A4210	D-A4210		D-A4210	-	-	-	LPT1:
27	-	1	1	GEN4C	GEN4A	SAMP904G	90H20	D-A4211	D-A4211		D-A4211	-	-	-	LPT1:
28	-	1	1	GEN4C	GEN4A	SAMP904G	90H20	D-A4212	D-A4212		D-A4212	-	-	-	LPT1:
29	-	1	1	GEN4C	GEN4A	SAMP904G	90H20	D-A4213	D-A4213		D-A4213	-	-	-	LPT1:
30	-	1	1	GEN4C	GEN4A	SAMP904G	90H20	D-A4214	D-A4214		D-A4214	-	-	-	LPT1:
31	-	1	1	GEN4C	GEN4A	SAMP904G	90H20	D-A4215	D-A4215		D-A4215	-	-	-	LPT1:
32	-	1	1	GEN4C	GEN4A	SAMP904G	90H20	D-A4216	D-A4216		D-A4216	-	-	-	LPT1:
33	-	1	1	GEN4C	GEN4A	SAMP904G	90H20	D-A4217	D-A4217		D-A4217	-	-	-	LPT1:
34	-	1	1	GEN4C	GEN4A	SAMP904G	90H20	D-A4218	D-A4218		D-A4218	-	-	-	LPT1:
35	-	1	1	GEN4C	GEN4A	SAMP904G	90H20	D-A4219	D-A4219		D-A4219	-	-	-	LPT1:
36	-	1	1	GEN4C	GEN4A	SAMP904G	90H20	D-A4220	D-A4220		D-A4220	-	-	-	LPT1:
37	-	1	1	GEN4C	GEN4A	SAMP904G	90H20	D-A4221	D-A4221		D-A4221	-	-	-	LPT1:
38	-	1	1	GEN4C	GEN4A	epamedaG	EPACHECK	D-A4222	D-A4222		D-A4222	-	-	-	LPT1:
39	-	1	1	GEN4C	GEN4A	epamedbG	EPACHECK	D-A4223	D-A4223		D-A4223	-	-	-	LPT1:
40	-	1	1	GEN4C	GEN4A	SAMP904G	90H20	D-A4224	D-A4224		D-A4224	-	-	-	LPT1:
41	-	1	1	GEN4C	GEN4A	SAMP904G	90H20	D-A4225	D-A4225		D-A4225	-	-	-	LPT1:
42	-	1	1	GEN4C	GEN4A	SAMP904G	90H20	D-A4226	D-A4226		D-A4226	-	-	-	LPT1:
43	-	1	1	GEN4C	GEN4A	SAMP904G	90H20	D-A4227	D-A4227		D-A4227	-	-	-	LPT1:
44	-	1	1	GEN4C	GEN4A	SAMP904G	90H20	D-A4228	D-A4228		D-A4228	-	-	-	LPT1:
45	-	1	1	GEN4C	GEN4A	SAMP904G	90H20	D-A4229	D-A4229		D-A4229	-	-	-	LPT1:
46	-	1	1	GEN4C	GEN4A	SAMP904G	90H20	D-A4230	D-A4230		D-A4230	-	-	-	LPT1:
47	-	1	1	GEN4C	GEN4A	SAMP904G	90H20	D-A4231	D-A4231		D-A4231	-	-	-	LPT1:
48	-	1	1	GEN4C	GEN4A	SAMP904G	90H20	D-A4232	D-A4232		D-A4232	-	-	-	LPT1:
49	-	1	1	GEN4C	GEN4A	SAMP904G	90H20	D-A4233	D-A4233		D-A4233	-	-	-	LPT1:
50	-	1	1	GEN4C	GEN4A	SAMP904G	90H20	D-A4234	D-A4234		D-A4234	-	-	-	LPT1:
51	-	1	1	GEN4C	GEN4A	SAMP904G	90H20	D-A4235	D-A4235		D-A4235	-	-	-	LPT1:
52	-	1	1	GEN4C	GEN4A	SAMP904G	90H20	D-A4236	D-A4236		D-A4236	-	-	-	LPT1:
53	-	1	1	GEN4C	GEN4A	SAMP904G	90H20	D-A4237	D-A4237		D-A4237	-	-	-	LPT1:
54	-	1	1	GEN4C	GEN4A	PEM4G	PEM	D-A4238	D-A4238		D-A4238	-	-	-	LPT1:

Turbochrom Sequence File : H:\ACQUIRE\MET_SEQ\4130-G.SEQ
Created by : DE11/02/98 on : 7/14/00 09:09
Edited by : LM07/13/00 on : 7/17/00 08:18
Description : STL PGH PEST/PCB CLP RUN ON GC#4 DB608/DB1701
REVIEWED BY:

H

Number of Times Edited : 2 /DE 7/8-00

Sequence File Header Information:

Number of Rows : 54
Instrument Type : 760 / 900 Series Intelligent Interface
Injection Type : SINGLE

Sequence Sample Descriptions - Channel B

Row	Type	Sample Name	Sample Number	Study Name	Sample Amount	ISTD Amount	Sample Volume	Dil. Factor	Mult	Divisor	Addend	Norm. factor
1	Cal:Replace	RESCHA,4130-G.b	190-75-4	03/08/99	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
2	Ctrl Sample	PEMHA,4130-G.b,	190-87-13	03/08/99	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
3	Cal:Replace	AR1660HA,4130-G	190-80-14	03/08/99	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
4	Cal:Replace	AR1221HA,4130-G	190-81-1	03/08/99	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
5	Cal:Replace	AR1232HA,4130-G	190-81-2	03/08/99	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
6	Cal:Replace	AR1242HA,4130-G	190-81-3	03/08/99	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
7	Cal:Replace	AR1248HA,4130-G	190-81-4	03/08/99	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
8	Cal:Replace	AR1254HA,4130-G	190-81-5	03/08/99	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
9	Cal:Replace	TOXHA,4130-G.b,	190-81-6	03/08/99	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
10	Cal:Replace	INDALHA,4130-G.	190-82-1	03/08/99	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
11	Cal:Replace	INDBLHA,4130-G.	190-82-4	03/08/99	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
12	Cal:Replace	INDAMHA,4130-G.	190-82-2	03/08/99	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
13	Cal:Replace	INDBMHA,4130-G.	190-82-5	03/08/99	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
14	Cal:Replace	INDAHHA,4130-G.	190-82-3	03/08/99	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
15	Cal:Replace	INDBHHA,4130-G.	190-82-6	03/08/99	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
16	Std Check	PIBLKHA,4130-G.	190-81-9	03/08/99	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
17	Ctrl Sample	PEMHB,4130-G.b,	190-87-13	03/08/99	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
18	Sample	DFQLJ103,4130-G	060146-1	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
19	Sample	DFQLJ104,4130-G	060146-1S	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
20	Sample	DFQLJ105,4130-G	060146-1D	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
21	Sample	DFQPJ103,4130-G	060146-2	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
22	Sample	DFQPM103,4130-G	060146-3	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
23	Sample	DFQPW103,4130-G	060146-4	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
24	Sample	DFQQ0103,4130-G	060146-5	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
25	Sample	DFQQ3103,4130-G	060146-6	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
26	Sample	DFQQ4103,4130-G	060146-7	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
27	Sample	DFQQ4203,4130-G	060146-7DI	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
28	Sample	DFQQ5103,4130-G	060146-8	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
29	Sample	DFQQ5203,4130-G	060146-8DI	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
30	Sample	DFQQ9103,4130-G	060146-9	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
31	Sample	DFQQ9203,4130-G	060146-9DI	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
32	Sample	DFQQC103,4130-G	060146-10	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
33	Sample	DFQQN103,4130-G	060146-11	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
34	Sample	DFQQP103,4130-G	060146-12	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
35	Sample	DFQQT103,4130-G	060146-13	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
36	Sample	DG1PV101,4130-G	060146-BLK	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
37	Std Check	PIBLKHB,4130-G.	190-81-9	03/08/99	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
38	Std Check	INDAMHB,4130-G.	190-82-2	03/08/99	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
39	Std Check	INDBMHB,4130-G.	190-82-5	03/08/99	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
40	Sample	CRQLB77,4130-G.	GPCB7/7/00	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
41	Sample	PESTB77,4130-G.	GPCB7/7/00	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
42	Sample	PCBB77,4130-G.b	GPCB7/7/00	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
43	Sample	DFPDK101,4130-G	050128-9	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
44	Sample	DFPDT101,4130-G	050128-10	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
45	Sample	DFPDW101,4130-G	050128-11	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
46	Sample	DFPDW102,4130-G	050128-11S	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
47	Sample	DFPDW103,4130-G	050128-11D	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
48	Sample	DFPEP102,4130-G	050128-15	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
49	Sample	DFPF8102,4130-G	050128-19	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
50	Sample	DFPFG102,4130-G	050128-21	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
51	Sample	DFRGL101,4130-G	050128-BLK	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
52	Sample	DFRGL102,4130-G	050128-LCS	03/08/99	1000.000	1.000	1.000	1.000	10.000	1.000	0.000	100.000
53	Std Check	PIBLKHB,4130-G.	190-81-9	03/08/99	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
54	Ctrl Sample	PEMHC,4130-G.b,	190-87-13	03/08/99	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000

Sequence Process Information - Channel B

Row	Inst	Process	Calib	Report	Raw	Result	Baseline	Modified	Cal	Level	Update	Out
1	1	1	1	1	1	1	1	1	1	1	1	1

STL Northwest Laboratory

				Method	Method	Method	Format	File	File	File	Raw File	Rpt	Name	RT	Dev
1	-	1	1	GEN4C	GEN4B	RCM4H	RCM	D-B4185	D-B4185		D-B4185	N	MED	N	LPT1:
2	-	1	1	GEN4C	GEN4B	PEM4H	PEM	D-B4186	D-B4186		D-B4186	-	-	-	LPT1:
3	-	1	1	GEN4C	GEN4B	166090H	166090	D-B4187	D-B4187		D-B4187	N	MED	N	LPT1:
4	-	1	1	GEN4C	GEN4B	122190H	122190	D-B4188	D-B4188		D-B4188	N	MED	N	LPT1:
5	-	1	1	GEN4C	GEN4B	123290H	123290	D-B4189	D-B4189		D-B4189	N	MED	N	LPT1:
6	-	1	1	GEN4C	GEN4B	124290h	124290	D-B4190	D-B4190		D-B4190	N	MED	N	LPT1:
7	-	1	1	GEN4C	GEN4B	124890H	124890	D-B4191	D-B4191		D-B4191	N	MED	N	LPT1:
8	-	1	1	GEN4C	GEN4B	125490H	125490	D-B4192	D-B4192		D-B4192	N	MED	N	LPT1:
9	-	1	1	GEN4C	GEN4B	TOX90H	TCX90	D-B4193	D-B4193		D-B4193	N	MED	N	LPT1:
10	-	1	1	GEN4C	GEN4B	EPAAH	INDA90	D-B4194	D-B4194		D-B4194	N	LOW	Y	LPT1:
11	-	1	1	GEN4C	GEN4B	EPABH	INDB90	D-B4195	D-B4195		D-B4195	N	LOW	Y	LPT1:
12	-	1	1	GEN4C	GEN4B	EPAMEDAH	INDA90	D-B4196	D-B4196		D-B4196	N	MED	Y	LPT1:
13	-	1	1	GEN4C	GEN4B	EPAMEDBH	INDB90	D-B4197	D-B4197		D-B4197	N	MED	Y	LPT1:
14	-	1	1	GEN4C	GEN4B	EPAAH	INDA90	D-B4198	D-B4198		D-B4198	N	HIGH	Y	LPT1:
15	-	1	1	GEN4C	GEN4B	EPABH	INDB90	D-B4199	D-B4199		D-B4199	N	HIGH	Y	LPT1:
16	-	1	1	GEN4C	GEN4B	SAMP904H	90H20	D-B4200	D-B4200		D-B4200	-	-	-	LPT1:
17	-	1	1	GEN4C	GEN4B	PEM4H	PEM	D-B4201	D-B4201		D-B4201	-	-	-	LPT1:
18	-	1	1	GEN4C	GEN4B	samp904H	90H20	D-B4202	D-B4202		D-B4202	-	-	-	LPT1:
19	-	1	1	GEN4C	GEN4B	samp904H	90H20	D-B4203	D-B4203		D-B4203	-	-	-	LPT1:
20	-	1	1	GEN4C	GEN4B	samp904H	90H20	D-B4204	D-B4204		D-B4204	-	-	-	LPT1:
21	-	1	1	GEN4C	GEN4B	samp904H	90H20	D-B4205	D-B4205		D-B4205	-	-	-	LPT1:
22	-	1	1	GEN4C	GEN4B	samp904H	90H20	D-B4206	D-B4206		D-B4206	-	-	-	LPT1:
23	-	1	1	GEN4C	GEN4B	samp904H	90H20	D-B4207	D-B4207		D-B4207	-	-	-	LPT1:
24	-	1	1	GEN4C	GEN4B	samp904H	90H20	D-B4208	D-B4208		D-B4208	-	-	-	LPT1:
25	-	1	1	GEN4C	GEN4B	samp904H	90H20	D-B4209	D-B4209		D-B4209	-	-	-	LPT1:
26	-	1	1	GEN4C	GEN4B	samp904H	90H20	D-B4210	D-B4210		D-B4210	-	-	-	LPT1:
27	-	1	1	GEN4C	GEN4B	samp904H	90H20	D-B4211	D-B4211		D-B4211	-	-	-	LPT1:
28	-	1	1	GEN4C	GEN4B	samp904H	90H20	D-B4212	D-B4212		D-B4212	-	-	-	LPT1:
29	-	1	1	GEN4C	GEN4B	samp904H	90H20	D-B4213	D-B4213		D-B4213	-	-	-	LPT1:
30	-	1	1	GEN4C	GEN4B	samp904H	90H20	D-B4214	D-B4214		D-B4214	-	-	-	LPT1:
31	-	1	1	GEN4C	GEN4B	samp904H	90H20	D-B4215	D-B4215		D-B4215	-	-	-	LPT1:
32	-	1	1	GEN4C	GEN4B	samp904H	90H20	D-B4216	D-B4216		D-B4216	-	-	-	LPT1:
33	-	1	1	GEN4C	GEN4B	samp904H	90H20	D-B4217	D-B4217		D-B4217	-	-	-	LPT1:
34	-	1	1	GEN4C	GEN4B	samp904H	90H20	D-B4218	D-B4218		D-B4218	-	-	-	LPT1:
35	-	1	1	GEN4C	GEN4B	samp904H	90H20	D-B4219	D-B4219		D-B4219	-	-	-	LPT1:
36	-	1	1	GEN4C	GEN4B	samp904H	90H20	D-B4220	D-B4220		D-B4220	-	-	-	LPT1:
37	-	1	1	GEN4C	GEN4B	SAMP904H	90H20	D-B4221	D-B4221		D-B4221	-	-	-	LPT1:
38	-	1	1	GEN4C	GEN4B	EPAMEDAH	EPACHECK	D-B4222	D-B4222		D-B4222	-	-	-	LPT1:
39	-	1	1	GEN4C	GEN4B	EPAMEDBH	EPACHECK	D-B4223	D-B4223		D-B4223	-	-	-	LPT1:
40	-	1	1	GEN4C	GEN4B	samp904H	90H20	D-B4224	D-B4224		D-B4224	-	-	-	LPT1:
41	-	1	1	GEN4C	GEN4B	samp904H	90H20	D-B4225	D-B4225		D-B4225	-	-	-	LPT1:
42	-	1	1	GEN4C	GEN4B	samp904H	90H20	D-B4226	D-B4226		D-B4226	-	-	-	LPT1:
43	-	1	1	GEN4C	GEN4B	samp904H	90H20	D-B4227	D-B4227		D-B4227	-	-	-	LPT1:
44	-	1	1	GEN4C	GEN4B	samp904H	90H20	D-B4228	D-B4228		D-B4228	-	-	-	LPT1:
45	-	1	1	GEN4C	GEN4B	samp904H	90H20	D-B4229	D-B4229		D-B4229	-	-	-	LPT1:
46	-	1	1	GEN4C	GEN4B	samp904H	90H20	D-B4230	D-B4230		D-B4230	-	-	-	LPT1:
47	-	1	1	GEN4C	GEN4B	samp904H	90H20	D-B4231	D-B4231		D-B4231	-	-	-	LPT1:
48	-	1	1	GEN4C	GEN4B	samp904H	90H20	D-B4232	D-B4232		D-B4232	-	-	-	LPT1:
49	-	1	1	GEN4C	GEN4B	samp904H	90H20	D-B4233	D-B4233		D-B4233	-	-	-	LPT1:
50	-	1	1	GEN4C	GEN4B	samp904H	90H20	D-B4234	D-B4234		D-B4234	-	-	-	LPT1:
51	-	1	1	GEN4C	GEN4B	samp904H	90H20	D-B4235	D-B4235		D-B4235	-	-	-	LPT1:
52	-	1	1	GEN4C	GEN4B	samp904H	90H20	D-B4236	D-B4236		D-B4236	-	-	-	LPT1:
53	-	1	1	GEN4C	GEN4B	SAMP904H	90H20	D-B4237	D-B4237		D-B4237	-	-	-	LPT1:
54	-	1	1	GEN4C	GEN4B	PEM4H	PEM	D-B4238	D-B4238		D-B4238	-	-	-	LPT1:

PSR024 7/11/00 11:38:37 MT SAMPLE CUSTODIAN REMOVAL REQUEST

REQUESTED BY: PINOB

METHOD: SQ Pesticides/PCB (CLP-OLM03.1)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
W149 5B	DFQLJ-1-03		249263	064186	A-13-SQ	A0G060146	001	QC	SOLID	0	2	1
W149	DFQPJ-1-03		249264	064186	A-13-SQ	A0G060146	002		SOLID	0	2	1
W149	DFQPM-1-03		249265	064186	A-13-SQ	A0G060146	003		SOLID	0	2	1
W149	DFQPW-1-03		249266	064186	A-13-SQ	A0G060146	004		SOLID	0	2	1
W149	DFQQ0-1-03		249267	064186	A-13-SQ	A0G060146	005		SOLID	0	2	1
W149	DFQQ3-1-03		249268	064186	A-13-SQ	A0G060146	006		SOLID	0	2	1
W149	DFQQ4-1-03		249269	064186	A-13-SQ	A0G060146	007		SOLID	0	2	1
W149	DFQQ5-1-03		249270	064186	A-13-SQ	A0G060146	008		SOLID	0	2	1
W149	DFQQ9-1-03		249271	064186	A-13-SQ	A0G060146	009		SOLID	0	2	1
W149	DFQQC-1-03		249272	064186	A-13-SQ	A0G060146	010		SOLID	0	2	1
W149	DFQQN-1-03		249273	064186	A-13-SQ	A0G060146	011		SOLID	0	2	1
W149	DFQQP-1-03		249274	064186	A-13-SQ	A0G060146	012		SOLID	0	2	1
W149	DFQQT-1-03		249275	064186	A-13-SQ	A0G060146	013		SOLID	0	2	1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
Brian A. Pino	Brian A. Pino	7-11-00 1340
Brian A. Pino	Brian A. Pino	7-11-00 1700

***** END OF REPORT *****

Severn Trent Laboratories, Inc
SAMPLE ANALYSIS REQUISITION

LABORATORY: STL Pittsburgh
450 William Pitt Way
Pittsburgh PA 15238,BUR NS

NEED ANALYTICAL REPORT BY
7/12/00

ATTN:

LAB PURCHASE ORDER: SR024388

CLIENT CODE: 64186 PROJECT MANAGER: Kenneth J. Kuzior

NUMBER OF SAMPLES IN LOT: 0013

SAMPLE I.D.	SAMPLING DATE	ANALYSIS REQUIRED
A0G060146-001 DFQLJ-1-01	7/03/00	Pesticides/PCB (CLP-OLM03.1) (GCCLP31S) METHOD: OLM03.1
A0G060146-001 DFQLJ-1-02	7/03/00	Solids, Percent (as TS - 160.3 MOD) - Solids (TS) METHOD: 160.3 MOD
A0G060146-002 DFQPJ-1-01	7/03/00	Pesticides/PCB (CLP-OLM03.1) (GCCLP31S) METHOD: OLM03.1
A0G060146-002 DFQPJ-1-02	7/03/00	Solids, Percent (as TS - 160.3 MOD) - Solids (TS) METHOD: 160.3 MOD
A0G060146-003 DFQPM-1-01	7/03/00	Pesticides/PCB (CLP-OLM03.1) (GCCLP31S) METHOD: OLM03.1
A0G060146-003 DFQPM-1-02	7/03/00	Solids, Percent (as TS - 160.3 MOD) - Solids (TS) METHOD: 160.3 MOD
A0G060146-004 DFQPW-1-01	7/03/00	Pesticides/PCB (CLP-OLM03.1) (GCCLP31S) METHOD: OLM03.1
A0G060146-004 DFQPW-1-02	7/03/00	Solids, Percent (as TS - 160.3 MOD) - Solids (TS) METHOD: 160.3 MOD
A0G060146-005 DFQQ0-1-01	7/03/00	Pesticides/PCB (CLP-OLM03.1) (GCCLP31S) METHOD: OLM03.1
A0G060146-005 DFQQ0-1-02	7/03/00	Solids, Percent (as TS - 160.3 MOD) - Solids (TS) METHOD: 160.3 MOD

Call Ken Kuzior w/ ?'s @ 330-966-9374.
Rush 1 week TAT. SDG # 606146 (Closed).

****
* CONTINUED *
****

Severn Trent Laboratories, Inc
SAMPLE ANALYSIS REQUISITION

LABORATORY: STL Pittsburgh
450 William Pitt Way
Pittsburgh PA 15238,BUR NS

NEED ANALYTICAL REPORT BY
7/12/00
ROUTINE

ATTN:

LAB PURCHASE ORDER: SR024388

CLIENT CODE: 64186 PROJECT MANAGER: Kenneth J. Kuzior

NUMBER OF SAMPLES IN LOT: 0013

SAMPLE I.D.	SAMPLING DATE	ANALYSIS REQUIRED
A0G060146-006 DFQQ3-1-01	7/03/00	Pesticides/PCB (CLP-OLM03.1) (GCCLP31S) METHOD: OLM03.1
A0G060146-006 DFQQ3-1-02	7/03/00	Solids, Percent (as TS - 160.3 MOD) - Solids (TS) METHOD: 160.3 MOD
A0G060146-007 DFQQ4-1-01	7/03/00	Pesticides/PCB (CLP-OLM03.1) (GCCLP31S) METHOD: OLM03.1
A0G060146-007 DFQQ4-1-02	7/03/00	Solids, Percent (as TS - 160.3 MOD) - Solids (TS) METHOD: 160.3 MOD
A0G060146-008 DFQQ5-1-01	7/03/00	Pesticides/PCB (CLP-OLM03.1) (GCCLP31S) METHOD: OLM03.1
A0G060146-008 DFQQ5-1-02	7/03/00	Solids, Percent (as TS - 160.3 MOD) - Solids (TS) METHOD: 160.3 MOD
A0G060146-009 DFQQ9-1-01	7/03/00	Pesticides/PCB (CLP-OLM03.1) (GCCLP31S) METHOD: OLM03.1
A0G060146-009 DFQQ9-1-02	7/03/00	Solids, Percent (as TS - 160.3 MOD) - Solids (TS) METHOD: 160.3 MOD
A0G060146-010 DFQQC-1-01	7/03/00	Pesticides/PCB (CLP-OLM03.1) (GCCLP31S) METHOD: OLM03.1
A0G060146-010 DFQQC-1-02	7/03/00	Solids, Percent (as TS - 160.3 MOD) - Solids (TS) METHOD: 160.3 MOD

****
* CONTINUED *
****

Severn Trent Laboratories, Inc
SAMPLE ANALYSIS REQUISITION

LABORATORY: STL Pittsburgh
450 William Pitt Way
Pittsburgh PA 15238,BUR NS

NEED ANALYTICAL REPORT BY
7/12/00
ROUTINE

ATTN:

LAB PURCHASE ORDER: SR024388

CLIENT CODE: 64186 PROJECT MANAGER: Kenneth J. Kuzior

NUMBER OF SAMPLES IN LOT: 0013

SAMPLE I.D.	SAMPLING DATE	ANALYSIS REQUIRED
A0G060146-011 DFQQN-1-01	7/03/00	Pesticides/PCB (CLP-OLM03.1) (GCCLP31S) METHOD: OLM03.1
A0G060146-011 DFQQN-1-02	7/03/00	Solids, Percent (as TS - 160.3 MOD) - Solids (TS) METHOD: 160.3 MOD
A0G060146-012 DFQQP-1-01	7/03/00	Pesticides/PCB (CLP-OLM03.1) (GCCLP31S) METHOD: OLM03.1
A0G060146-012 DFQQP-1-02	7/03/00	Solids, Percent (as TS - 160.3 MOD) - Solids (TS) METHOD: 160.3 MOD
A0G060146-013 DFQQT-1-01	7/03/00	Pesticides/PCB (CLP-OLM03.1) (GCCLP31S) METHOD: OLM03.1
A0G060146-013 DFQQT-1-02	7/03/00	Solids, Percent (as TS - 160.3 MOD) - Solids (TS) METHOD: 160.3 MOD

NEED DETECTION LIMIT AND ANALYSIS DATE INCLUDED IN REPORT.

SHIPPING METHOD: AIRBORNE DATE: 7/06/00

SEND REPORT TO: KENNETH J. KULIOR

SAMPLE RECEIVED BY: _____ DATE: 7/7/00

PLEASE SEND A SIGNED COPY OF THIS FORM WITH REPORT AT COMPLETION OF ANALYSIS.

THANK YOU.

STL North Canton

INT: _____ 7/06/00 13:21:36

STL Pittsburgh
450 William Pitt Way
Pittsburgh PA 15238,BUR NS

RELINQUISHED BY: Perry Bufma DATE/TIME: 7-6-00 330PM

RELINQUISHED BY: _____ DATE/TIME: _____

RECEIVED FOR LAB BY: _____ DATE/TIME: 7/7/00 1545

PLEASE RETURN ORIGINAL SAMPLE ANALYSIS REQUISITION

Cooler Receipt Form
STL Pittsburgh

Client: STL Canton Project: _____ Quote: _____

Cooler Rec'd & Opened for Temp. Check on: 7/7/00

Coolers Opened and Unpacked on: 7/7/00 By: [signature] (Signature)

STL Pittsburgh Lot Number: AOG060146

		Yes	No
1.	Were custody seals on the outside of the cooler?	✓	
	If YES, how many and where? Quantity __ Location [illegible]		
	Were signatures and date correct?	✓	
2.	Were custody papers included inside the cooler?	✓	
3.	Were custody papers properly filled out (ink, signed, match labels)?	✓	
4.	Did you sign the custody papers in the appropriate place?	✓	
5.	Was shippers packing slip attached to this form?	✓	
6.	Were packing materials used?	✓	
	If YES, what type? Bubble foam insert		
7.	Were the samples chilled? (Record temperatures on reverse side.)	✓	
8.	Were the samples appropriately preserved?	✓	
9.	Were all bottles sealed in separate plastic bags?	✓	
10.	Did all bottles arrive in good condition (unbroken)?	✓	
11.	Were all bottle labels complete (sample ID, preservatives, etc.)?	✓	
12.	Did all bottle labels and/or tags agree with custody papers?	✓	
13.	Were correct bottles used for tests indicated?	✓	
14.	Were all VOA vials checked for the presence of air bubbles?	✓	
15.	Was a sufficient amount of sample sent in each bottle?	✓	

16. Samples received by: FEDEX UPS CLIENT DROP-OFF OTHER AIRBORNE

Explain any discrepancies: _____

Level 2 Review _____

Was contacted on _____ by _____ to resolve discrepancies.

STL Pittsburgh

P: Preserved

UP: Unpreserved

Sample ID	TMET PH<2	DMET PH<2	HG PH<2	NUT(1) PH<2	CN PH ≥12	OG TPHC PH<2	PHEN PH<2	SULF PH ≥12	TOC PH<2	TOX PH<2	VOA P/UP	hrdnss PH<2			

(1) "NUT" could include sample bottles for ammonia, chemical oxygen demand, nitrate/nitrite, TKN, or total phosphorus

Comments: _____

Cooler Number	Temperature
	2°
	2°

Bottle Type	Lot Number*

* Please use an asterisk if bottle lot number was covered by the label.

STL PT/Feb-00/96-005/COOL.DOC

STL-Pittsburgh
Data Review Checklist
GC

Lab Sample Numbers or SDG:	AOG060146
Method/Test/Parameter:	90 CLP

Review Item	Yes (✓)	No (✓)	N/A (✓)	2nd Level Review (✓)	Comments
A. Initial Calibration					
1. Was the maximum %RSD within QC limits?	✓			✓	
2. Were calibration factors updated or were curves drawn for 600 series methods or 8000 series methods?	✓			✓	
3. Are retention time windows established and updated in method?	✓			✓	
4. Did the standards pass the resolution check criteria?	✓		~~✓~~ LM 8/24/00	✓	
5. Was the percent breakdown within QC limits?	✓			✓	
B. Continuing Calibration					
1. Was the maximum %D within QC limits?	✓			✓	
2. Are compounds within retention time windows?	✓			✓	
3. Was the percent breakdown within QC limits?	✓			✓	
C. Sample Analysis After initial calibration, continuing calibration, and method blank criteria have been met:					
1. Are sample name and other header information correct?	✓			✓	
2. Do surrogate % recoveries meet QC criteria?	✓			✓	
3. Were the runs checked for saturation?	✓			✓	
4. Are all hits confirmed if required?	✓			✓	
5. Are all compounds within linear range of calibration curve?	✓			✓	
6. Were all sample holding times met?	✓			✓	
7. Do reported results take into account dilutions, sample weights and percent moistures?	✓			✓	
D. QC Samples					
1. All Method Blank hits below reporting limit?	✓			✓	
2. Are LCS spike % recoveries within QC limits?	✓			✓	
3. Are batch MS/MSD % recoveries within QC limits?	✓			✓	
4. Are MS/MSD and/or Duplicates (duplicate sample analyses) RPD within QC limits?	✓			✓	
5. Was second source check standard analyzed successfully?			✓	✓	
F. Other					
1. Are all nonconformances included and noted?			✓	✓	
2. Are all required forms filled out?	✓			✓	
3. Correct methodology used?	✓			✓	
4. Transcriptions checked?	✓			✓	
5. Were all calculations checked at minimum frequency?	✓			✓	
6. Were all manual integrations checked by a second reviewer?	✓			✓	
7. Units checked?	✓			✓	

General Comments: Sample 007 was ran at 2 Dilutions due to MATRIX. Samples 8 + 9 were run at 2 Dilutions due to presence of Aldrin All Sets of Data was reported. Tx out on 1 column for 001, 001 MS + 001 MSD. Surrogates Diluted out on Samples 7, 8 + 9.

Analyst & Date: LM 7/24/00 Second-Level Review & Date: [signature] - 7-25-00

Quanterra PT/07-00/96-005/GCMSDRC.DOC

QUANTERRA ENVIRONMENTAL SERVICES, PITTSBURGH
LEVEL 1 REVIEW CHECKLIST
FOR ORGANIC EXTRACTIONS

ANALYSIS CLP P/PCB LOT NUMBER A0G060146

BATCH NUMBER 0193481

MS BATCH NUMBER 0193232

A. Sample Preparation
1. Was all sample preparation documentation completed and reviewed? yes
2. Were matrix interferences observed and documented? NO
3. Was sample pretreatment (GPC or other cleanup) required? yes
4. Were special instructions followed and copies attached? NO
5. Were samples weighed or measured to the appropriate number of significant figures? yes

B. Documentation
1. Were method deviations documented below ? NA Were the deviations pre-approved? NA
2. Was all paperwork complete, including the analyst's signature and date? yes
3. Is a copy of the extraction log included with the documentation to be placed in the folder? yes

C. QC Data
1. Were there client-specific QC requirements for this lot? NO
2. Was the client-specific QC extracted as requested? NO
3. Were the preparation blank, check sample, and MS/MSD extracted with every batch of samples? yes

Analyst's Signature Brian A. Pino Date 7-11-00

[ ] LCS/LCS DUP were extracted due to insufficient sample for MS/MSD.

[ ] MS/MSD extracted at reduced volume due to insufficient volume.(see extraction sheet for volumes)

[ ] Sample(s) were extracted at reduced volume due to insufficient sample. (see extraction sheet)

LEVEL II REVIEW CHECKLIST

A. Data
1. Were holding time violations documented on the holding time form? NO

B. Documentation
1. Were method deviations documented and approved? NO
2. Are sample vials appropriately labeled? yes
3. Is all paperwork complete? yes

Reviewer's Signature Keri Geeley Date 7-12-00

GENERAL CHEMISTRY DATA

RMT

Client Sample ID: SL12-1.0'

General Chemistry

Lot-Sample #...: A0G060146-001 Work Order #...: DFQLJ Matrix.....: SO
Date Sampled...: 07/03/00 09:30 Date Received..: 07/06/00
% Moisture.....: 0.0

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	100			MCAWW 160.3 MOD	07/12-07/13/00	0194229

Dilution Factor: 1

NOTE(S):

RL Reporting Limit

Insufficient sample volume to perform analysis.100% solid result entered for data package requirment. (work order #DFQLJ102)

RMT

Client Sample ID: SL12-3.5'

General Chemistry

Lot-Sample #...: A0G060146-002 Work Order #...: DFQPJ Matrix.....: SO
Date Sampled...: 07/03/00 09:30 Date Received..: 07/06/00
% Moisture.....: 25

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	75.2		%	MCAWW 160.3 MOD	07/12-07/13/00	0194229

Dilution Factor: 1

RMT

Client Sample ID: SL13-1.5'

General Chemistry

Lot-Sample #...: A0G060146-003 Work Order #...: DFQPM Matrix.....: SO
Date Sampled...: 07/03/00 09:45 Date Received..: 07/06/00
% Moisture.....: 19

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	81.0		%	MCAWW 160.3 MOD	07/12-07/13/00	0194229

Dilution Factor: 1

RMT

Client Sample ID: SL13-3.5'

General Chemistry

Lot-Sample #...: A0G060146-004 Work Order #...: DFQPW Matrix.....: SO
Date Sampled...: 07/03/00 09:45 Date Received..: 07/06/00
% Moisture.....: 17

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	82.7		%	MCAWW 160.3 MOD	07/12-07/13/00	0194229

Dilution Factor: 1

RMT

Client Sample ID: SL14-3.0'

General Chemistry

Lot-Sample #...: A0G060146-005 Work Order #...: DFQQ0 Matrix.....: SO
Date Sampled...: 07/03/00 09:55 Date Received..: 07/06/00
% Moisture.....: 18

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	82.1		%	MCAWW 160.3 MOD	07/12-07/13/00	0194229

Dilution Factor: 1

RMT

Client Sample ID: SL15-3.0'

General Chemistry

Lot-Sample #...: A0G060146-006 Work Order #...: DFQQ3 Matrix.....: SO
Date Sampled...: 07/03/00 10:00 Date Received..: 07/06/00
% Moisture.....: 15

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	84.9		%	MCANW 160.3 MOD	07/12-07/13/00	0194229

Dilution Factor: 1

RMT

Client Sample ID: SL16-1.0'

General Chemistry

Lot-Sample #...: A0G060146-007 Work Order #...: DFQQ4 Matrix.....: SO
Date Sampled...: 07/03/00 10:15 Date Received..: 07/06/00
% Moisture.....: 19

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	80.7		%	MCAWW 160.3 MOD	07/12-07/13/00	0194229

Dilution Factor: 1

RMT

Client Sample ID: SL17-1.0'

General Chemistry

Lot-Sample #...: A0G060146-008 **Work Order #...:** DFQQ5 **Matrix.....:** SO
Date Sampled...: 07/03/00 10:20 **Date Received..:** 07/06/00
% Moisture.....: 18

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	81.6		%	MCAWW 160.3 MOD	07/12-07/13/00	0194229

Dilution Factor: 1

RMT

Client Sample ID: SL17-3.0'

General Chemistry

Lot-Sample #...: A0G060146-009 Work Order #...: DFQQ9 Matrix.....: SO
Date Sampled...: 07/03/00 10:20 Date Received..: 07/06/00
% Moisture.....: 26

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	74.1		%	MCANW 160.3 MOD	07/12-07/13/00	0194229

Dilution Factor: 1

RMT

Client Sample ID: SL18-2.5'

General Chemistry

Lot-Sample #...: A0G060146-010 Work Order #...: DFQQC Matrix.....: SO
Date Sampled...: 07/03/00 10:30 Date Received..: 07/06/00
% Moisture.....: 16

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	84.3		%	MCAWW 160.3 MOD	07/12-07/13/00	0194229

Dilution Factor: 1

RMT

Client Sample ID: SL19-1.0'

General Chemistry

Lot-Sample #...: A0G060146-011 Work Order #...: DFQQN Matrix.....: SO
Date Sampled...: 07/03/00 10:40 Date Received..: 07/06/00
% Moisture.....: 23

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	76.8		%	MCAWW 160.3 MOD	07/12-07/13/00	0194229

Dilution Factor: 1

RMT

Client Sample ID: SL20-2.0'

General Chemistry

Lot-Sample #...: A0G060146-012 Work Order #...: DFQQP Matrix.....: SO
Date Sampled...: 07/03/00 10:50 Date Received..: 07/06/00
% Moisture.....: 16

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	83.8		%	MCAWW 160.3 MOD	07/12-07/13/00	0194229

Dilution Factor: 1

RMT

Client Sample ID: SL20-2.0'DUP

General Chemistry

Lot-Sample #...: A0G060146-013 Work Order #...: DFQQT Matrix.....: SO
Date Sampled...: 07/03/00 10:50 Date Received..: 07/06/00
% Moisture.....: 16

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	83.9		%	MCAWW 160.3 MOD	07/12-07/13/00	0194229

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A0G060146 Work Order #...: DFQPJ-SMP Matrix.....: SO
DFQPJ-DUP

Date Sampled...: 07/03/00 09:30 Date Received..: 07/06/00

% Moisture.....: 25

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #:	A0G060146-002	
	75.2	75.7	%	0.77	(0-20)	MCAWW 160.3 MOD	07/12-07/13/00	0194229

Dilution Factor: 1

STL - Pittsburgh WATER CONTENT SHEET

SHEET NUM 0007006
TESTED: wwm 7.12.00
CHECKED: 7.13.00
COMMENTS:

CREATED: 7/12/00 11:53:34 AM
REVISED: 7/13/00 9:47:50 AM

CLIENT SAMPLE IDENTIFICATION	LAB SAMP IDENT.		TARE NO.	WEIGHT TARE	WEIGHT TARE + WET SMP	WEIGHT TARE + DRY SAMP	TIME IN	TIME OUT	WEIGHT WATER	WATER CONTENT CALC.	SOLIDS CONTENT CALC.
C0G110167	01	SMP	91	1.11	5.98	4.42	9:50	6:30	1.56	32.033	67.967
C0G110167	01DUP	SMP	51	1.11	6.56	4.8	9:50	6:30	1.76	32.294	67.706
C0G110167	02	SMP	115	1.11	6.72	4.8	9:50	6:30	1.92	34.225	65.775
C0G110167	03	SMP	119	1.12	5.92	4.13	9:50	6:30	1.79	37.292	62.708
C0G110167	04	SMP	156	1.11	6.26	4.22	9:50	6:30	2.04	39.612	60.388
C0G110167	05	SMP	96	1.11	6.71	5.28	9:50	6:30	1.43	25.536	74.464
C0G110167	06	SMP	29	1.1	6.26	5.83	9:50	6:30	0.43	8.333	91.667
C0G110167	07	SMP	B	1.14	6.54	5.51	9:50	6:30	1.03	19.074	80.926
C0G110167	08	SMP	A	1.11	6.12	5.14	9:45	6:30	0.98	19.561	80.439
C0G110167	09	SMP	166	1.11	5.72	5.39	9:45	6:30	0.33	7.158	92.842
C0G110167	10	SMP	32	1.11	5.65	4.72	9:45	6:30	0.93	20.485	79.515
C0G110167	11	SMP	25	1.13	5.62	3.9	9:45	6:30	1.72	38.307	61.693
C0G110167	12	SMP	1581	1.12	6.13	4.21	9:45	6:30	1.92	38.323	61.677
C0G110167	13	SMP	38	1.11	7.07	5.68	9:45	6:30	1.39	23.322	76.678
C0G110167	14	SMP	186	1.09	6.48	5.35	9:45	6:30	1.13	20.965	79.035
C0G100134	01	SMP	361	1.11	6.34	5.35	9:45	6:30	0.99	18.929	81.071
C0G100134	01DUP	SMP	42	1.11	6.37	5.22	9:45	6:30	1.15	21.863	78.137
C0G100134	02	SMP	107	1.11	6.51	6.15	9:45	6:30	0.36	6.667	93.333

STL - Pittsburgh WATER CONTENT SHEET

SHEET NUM 0007006
TESTED: wwm 7/12/00
CHECKED: 7-13-00
COMMENTS:

CREATED: 7/12/00 11:53:34 AM
REVISED: 7/13/00 12:44:14 PM

CLIENT SAMPLE IDENTIFICATION	LAB SAMP IDENT.		TARE NO.	WEIGHT TARE	WEIGHT TARE + WET SMP	WEIGHT TARE + DRY SAMP	TIME IN	TIME OUT	WEIGHT WATER	WATER CONTENT CALC.	SOLIDS CONTENT CALC.
C0G100134	03	SMP	177	1.12	6.21	5.46	9:45	6:30	0.75	14.735	85.265
C0G100134	04	SMP	HB	1.13	6.14	5.8	9:45	6:30	0.34	6.786	93.214
C0G060151	01	SMP	150	1.13	7.52	6.03	9:45	6:30	1.49	23.318	76.682
C0G110149	01	SMP	94	1.11	6.28	5.48	9:45	6:30	0.8	15.474	84.526
C0G110149	02	SMP	157	1.12	6.38	5.26	9:45	6:30	1.12	21.293	78.707
C0G110149	03	SMP	1151	1.1	6.56	6.12	9:45	6:30	0.44	8.059	91.941
C0G110149	04	SMP	123	1.13	5.58	4.96	9:45	6:30	0.62	13.933	86.067
C0G110142	01	SMP	108	1.15	6.39	6.35	9:45	6:30	0.04	0.763	99.237
C0G110143	01	SMP	PU	1.13	6.02	5.99	9:45	6:30	0.03	0.614	99.386
C0G110144	01	SMP	103	1.03	6.03	4.82	9:45	6:30	1.21	24.2	75.8
C0G110141	01	SMP	TM	1.02	6.8	6.04	9:45	6:30	0.76	13.149	86.851
A0G060146	02	SMP	200	1.05	5.88	4.68	9:45	6:30	1.2	24.845	75.155
A0G060146	02DUP	SMP	2	0.99	6.1	4.86	9:45	6:30	1.24	24.266	75.734
A0G060146	03	SMP	Y	1.06	6.26	5.27	9:45	6:30	0.99	19.038	80.962
A0G060146	04	SMP	95	1.04	6.53	5.58	9:45	6:30	0.95	17.304	82.696
A0G060146	05	SMP	46	1.12	6.76	5.75	9:45	6:30	1.01	17.908	82.092
A0G060146	06	SMP	BB	1.09	6.38	5.58	9:45	6:30	0.8	15.123	84.877
A0G060146	07	SMP	P29	1.07	6.97	5.83	9:45	6:30	1.14	19.322	80.678

STL - Pittsburgh WATER CONTENT SHEET

SHEET NUM 0007008
TESTED: wwm 7-12-00
CHECKED: 7-13-00
COMMENTS:

CREATED: 7/12/00 11:53:34 AM
REVISED: 7/13/00 9:47:50 AM

CLIENT SAMPLE IDENTIFICATION	LAB SAMP IDENT.		TARE NO.	WEIGHT TARE	WEIGHT TARE + WET SMP	WEIGHT TARE + DRY SAMP	TIME IN	TIME OUT	WEIGHT WATER	WATER CONTENT CALC.	SOLIDS CONTENT CALC.
A0G060146	08	SMP	TA	1.01	7.74	6.5	9:45	6:30	1.24	18.425	81.575
A0G060146	09	SMP	TI	1.02	6	4.71	9:45	6:30	1.29	25.904	74.096
A0G060146	10	SMP	P26	1.06	6.34	5.51	9:45	6:30	0.83	15.72	84.28
A0G060146	11	SMP	A64	1	6.13	4.94	9:45	6:30	1.19	23.197	76.803
A0G060146	12	SMP	V1	1	6.5	5.61	9:45	6:30	0.89	16.182	83.818
A0G060146	13	SMP	Y4	1.07	6.59	5.7	9:45	6:30	0.89	16.123	83.877
C0G110145	01	SMP	A67	1.01	6.09	4.91	9:45	6:30	1.18	23.228	76.772
C0G110145	02	SMP	235	1.03	6.56	5.7	9:45	6:30	0.86	15.552	84.448
A0G060146	01	SMP	0	0	0	0			0	0	0 100 % *

wwm 7-13-00

* Insufficient sample to perform analysis. 100% solid result entered for data package requirment.

wwm
7-13-00

COG100134 COG110144
COG060151 COG110141 → 0194228
COG110149
COG110142
COG110143

STL Pittsburgh

TOTAL SOLIDS/PERCENT MOISTURE LOG SHEET

Oven Temperature: 103°C±2°C

Date 7-12-00 Time in 0950

Analyst: aum.

Date 07-13-00 Time out 0630

Balance ID #: C94817

% moisture

SAMPLE ID	TARE NO.	TARE	SAMPLE + TARE	DRIED SAMPLE + TARE	SAMPLE ID	TARE NO.	TARE	SAMPLE + TARE	DRIED SAMPLE + TARE
COG110167-01	91	1.11	5.98	4.42	AOG060146-08	TA	1.01	7.74	6.50
Dup -01	51	1.11	6.56	4.80	09	TE	1.02	6.00	4.71
02	115	1.11	6.72	4.80	10	P26	1.06	6.34	5.51
03	119	1.12	5.92	4.13	11	A64	1.00	6.13	4.94
04	158	1.11	6.26	4.22	12	V1	1.00	6.50	5.61
05	96	1.11	6.71	5.28	13	Y4	1.07	6.59	5.70
06	29	1.10	6.26	5.83	COG110145-01	A67	1.01	6.09	4.91
07	B	1.14	6.54	5.51	02	235	1.03	6.56	5.70
08	A	1.11	6.12	5.14					
09	166	1.11	5.72	5.39					
10	32	1.11	5.65	4.72					
11	25	1.13	5.62	3.90					
12	1581	1.12	6.13	4.21					
13	38	1.11	7.07	5.68					
14	186	1.09	6.48	5.35					
COG100134-01	361	1.11	6.34	5.35					
Dup 01	42	1.11	6.37	5.22					
02	107	1.11	6.51	6.15					
03	177	1.12	6.21	5.46					
04	HB	1.13	6.14	5.80					
COG060151-01	150	1.13	7.52	6.03					
COG110149-01	94	1.11	6.28	5.48					
02	157	1.12	6.38	5.26					
03	1151	1.10	6.56	6.12					
04	123	1.13	5.58	4.96					
COG110142-01	108	1.15	6.39	6.35					
COG110143-01	PU	1.13	6.02	5.99					
COG110144-01	103	1.03	6.03	4.82					
COG110141-01	TM	1.02	6.80	6.04					
AOG060146-02	200	1.05	5.88	4.68					
Dup 02	Z	0.99	6.10	4.86					
03	Y	1.06	6.26	5.27					
04	95	1.04	6.53	5.58					
05	46	1.12	6.76	5.75					
06	BB	1.09	6.38	5.58					
07	P29	1.07	6.97	5.83					

% solid

% solid

Wally W Morgan 7-13-00

STL PT/May-00/96-003/TSLOG.DOC

STL North Canton

REQUESTED BY: MORGANW

METHOD: SM Solids, Percent (as TS - 160.3 MOD) - Solids

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
4D	DG0XM-1-01	__ __ __	249462	105611	A-88-SM	C0G110141	001		SOLID	1	1
4D	DG0XN-1-01	__ __ __	249463	105611	A-88-SM	C0G110142	001		SOLID	1	1
4D	DG0XW-1-01	__ __ __	249464	105611	A-88-SM	C0G110143	001		SOLID	1	1
4D	DG101-1-01	__ __ __	249465	016580	A-88-SM	C0G110144	001		SOLID	4	1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
E. L. Wendli	N Morgan	07-12-00 0700
N Morgan	E. L. Wendli	07-12-00 1145

***** END OF REPORT *****

REQUESTED BY: MORGANW

METHOD: SM Solids, Percent (as TS - 160.3 MOD) - Solids

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
*IN TRANSIT	DFQLJ-1-02		249581	064186	A-88-SM	A0G060146	001		SOLID	0 2	1
*IN TRANSIT	DFQPJ-1-02		249582	064186	A-88-SM	A0G060146	002		SOLID	0 2	1
*IN TRANSIT	DFQPM-1-02		249583	064186	A-88-SM	A0G060146	003		SOLID	0 2	1
*IN TRANSIT	DFQPW-1-02		249584	064186	A-88-SM	A0G060146	004		SOLID	0 2	1
*IN TRANSIT	DFQQ0-1-02		249585	064186	A-88-SM	A0G060146	005		SOLID	0 2	1
*IN TRANSIT	DFQQ3-1-02		249586	064186	A-88-SM	A0G060146	006		SOLID	0 2	1
*IN TRANSIT	DFQQ4-1-02		249587	064186	A-88-SM	A0G060146	007		SOLID	0 2	1
*IN TRANSIT	DFQQ5-1-02		249588	064186	A-88-SM	A0G060146	008		SOLID	0 2	1
*IN TRANSIT	DFQQ9-1-02		249589	064186	A-88-SM	A0G060146	009		SOLID	0 2	1
*IN TRANSIT	DFQQC-1-02		249590	064186	A-88-SM	A0G060146	010		SOLID	0 2	1
*IN TRANSIT	DFQQN-1-02		249591	064186	A-88-SM	A0G060146	011		SOLID	0 2	1
*IN TRANSIT	DFQQP-1-02		249592	064186	A-88-SM	A0G060146	012		SOLID	0 2	1
*IN TRANSIT	DFQQT-1-02		249593	064186	A-88-SM	A0G060146	013		SOLID	0 2	1

Insufficient sample volume (A0G 060146 -001) to perform % Solid. mm 7-12-00

RELINQUISHED BY	RECEIVED BY	DATE/TIME
[signature]	W Morgan	7-12-00 1000
W Morgan	[signature]	7-12-00 1300

***** END OF REPORT *****

REQUESTED BY: MORGANW

METHOD: SM Solids, Percent (as TS - 160.3 MOD) - Solids

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
3A	DFPA0-1-04		249447	418626	A-88-SM	C0G050123	001		SOLID	0	1 1
3A	DFPAR-1-04		249448	418626	A-88-SM	C0G050123	002		SOLID	0	1 1
3A	DFPC1-1-04		249449	418626	A-88-SM	C0G050123	003		SOLID	0	1 1
3A	DFPC2-1-05		249450	418626	A-88-SM	C0G050123	004		SOLID	0	1 1
3A,B CLP1	DFQMA-1-02		249457	414852	A-88-SM	C0G060151	001		SOLID	0	2 1
5A CLP1	DFXWM-1-01		249453	396447	A-88-SM	C0G100134	001		SOLID	0	2 1
5A CLP1	DFXX0-1-01		249454	396447	A-88-SM	C0G100134	002		SOLID	0	2 1
5A CLP1	DFXX2-1-01		249455	396447	A-88-SM	C0G100134	003		SOLID	0	2 1
5A CLP1	DFXX3-1-01		249456	396447	A-88-SM	C0G100134	004		SOLID	0	2 1
4C CLP1	DG103-1-02		249451	375241	A-88-SM	C0G110145	001		SOLID	0	1 1
4C CLP1	DG107-1-02		249452	375241	A-88-SM	C0G110145	002		SOLID	0	1 1
4D	DG10V-1-02		249458	357464	A-88-SM	C0G110149	001		SOLID	0	1 1
4D	DG112-1-02		249459	357464	A-88-SM	C0G110149	002		SOLID	0	1 1
4D	DG115-1-02		249460	357464	A-88-SM	C0G110149	003		SOLID	0	1 1
4D	DG117-1-02		249461	357464	A-88-SM	C0G110149	004		SOLID	0	1 1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
Eric L. Wendelli	W Morgan	07-12-00 0700
W Morgan	Eric L. Wendelli	07-12-00 1145

***** END OF REPORT *****

REQUESTED BY: MORGANW

METHOD: ES Moisture, Percent (CLP)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
5B	DG16K-1-0V		249433	375241	A-88-ES	COG110167	001		SOLID	2	1
5B	DG16N-1-0V		249434	375241	A-88-ES	COG110167	002		SOLID	2	1
5B	DG16Q-1-0V		249435	375241	A-88-ES	COG110167	003		SOLID	2	1
5B	DG16T-1-0V		249436	375241	A-88-ES	COG110167	004		SOLID	2	1
5B	DG16W-1-0V		249437	375241	A-88-ES	COG110167	005		SOLID	2	1
5B	DG17D-1-2L		249438	375241	A-88-ES	COG110167	011		SOLID	4	1
5B	DG17G-1-0V		249439	375241	A-88-ES	COG110167	012		SOLID	3	1
5B	DG17H-1-0V		249440	375241	A-88-ES	COG110167	013		SOLID	3	1
5B	DG17J-1-0V		249441	375241	A-88-ES	COG110167	014		SOLID	3	1
5B	DG17O-1-0V		249442	375241	A-88-ES	COG110167	006		SOLID	2	1
5B	DG172-1-0V		249443	375241	A-88-ES	COG110167	007		SOLID	2	1
5B.	DG174-1-0V		249444	375241	A-88-ES	COG110167	008		SOLID	2	1
5B	DG177-1-0V		249445	375241	A-88-ES	COG110167	009		SOLID	2	1
5B	DG179-1-0V		249446	375241	A-88-ES	COG110167	010		SOLID	2	1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
[illegible signature]	W Morgan	7-12-00 0700
W Morgan	[illegible signature]	7-12-00 1145

% moisture % Solid	wum	COG110167 COG100134 COG060151 COG116149 COG110142	COG110143 COG110144 COG110141	A OG060146

Review Item	Yes (✓)	No (✓)	N/A (✓)	2nd Level Review (✓)	Comments
A. Initial Calibration 1. Does the standard curve consist of a blank (when required) and the required minimum number of calibration standards?			✓	✓	
2. Is the initial calibration correlation coefficient 0.995?			✓	✓	
B. Continuing Calibration 1. Is the continuing calibration verification (CCV) percent recovery within QC limits?			✓	✓	
C. Sample Analysis 1. Were all sample holding times met?	✓			✓	
D. QC Samples 1. Is the method blank concentration less than the reporting limit?			✓	✓	
2. Is the laboratory control sample (LCS) % recovery within QC limits?			✓	✓	
3. Is the matrix spike (MS) % recovery within QC limits?			✓	✓	
4. When MS/MSD analyzed, is RPD within QC limits?			✓	✓	
5. When duplicate sample analysis performed, is RPD within QC limits?	✓			✓	
E. Other 1. Are all nonconformances included and noted?	✓			✓	
2. Are all required forms filled out?	✓			✓	
3. Was correct methodology used?	✓			✓	
4. Transcriptions checked?	✓			✓	
5. Were all calculations checked at minimum frequency?	✓			✓	
6. Did the analyst sign and date the front page of the analytical run?	✓			✓	
7. Units checked?	✓			✓	

General Comments: (Please note sample A OG060146 - #001) - Insufficient sample

Analyst & Date: [signature] 7-13-00

Second-Level Review & Date: [signature] 7-13-00

Quanterra PT/02-10-94-005 CC/MSDAC.DOC