

September 15, 1989

Mr. T. Griffin
Enviro Chem
1005 Investment Boulevard
Apex, NC 27502

Reference: Camp La Juene
No. 1202
ERO Project #89-08-036

Dear Mr. Griffin:

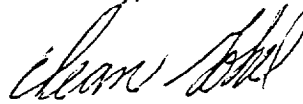
Attached are the results for the above referenced project. The analytical and quality control results are presented in separate tables.

On August 25, 1989 we received 2 soil samples and 1 water sample for analyses. The soil samples (Pit lot 203 and Pile lot 203) and the water sample (Drum #1) were requested for 8080 CLP packages. The package is enclosed.

The invoice will be sent under separate cover for the work performed.

If there are any questions, please call me at (919) 544-4535.

Sincerely,



Dean Gokel
Client Services Manager

Enclosures

DG/wp

2E
WATER PESTICIDE SURROGATE RECOVERY

Lab Name: ACUREX Contract: _____

Lab Code: ACUREX Case No.: 08117 SAS No.: _____ SDG No.: 759

	EPA SAMPLE NO.	S1 (DBC) #	OTHER
01	PBLK1	72	0
02	759	0 D	0
03	PBLK1	72	0
04	759DL	0 D	0
05	759MS	44	0
06	759MSD	66	0

ADVISORY
QC LIMITS
(24-154)

S1 (DBC) = Dibutylchlorendate

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: ACUREX Contract: _____

Lab Code: ACUREX Case No.: 08117 SAS No.: _____ SDG No.: 759

Level: (low/med) MED

	EPA SAMPLE NO.	S1 (DBC) #	OTHER
01	PBLK2	93	0
02	760	0 D	0
03	760MS	0 D	0
04	760MSD	0 D	0
05	761	0 D	0

ADVISORY
QC LIMITS
(20-150)

S1 (DBC) = Dibutylchlorendate

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

WATER PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ACUREX Contract: _____Lab Code: ACUREX Case No.: 08117 SAS No.: _____ SDG No.: 759Matrix Spike - EPA Sample No.: 759BLK1

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
gamma-BHC (Lindane)	0.200	0.0379	0.128	45 *	56-123
Heptachlor	0.200	0.0366	0.114	39 *	40-131
Aldrin	0.200	0.0381	0.120	41	40-120
Dieldrin	0.500	0.105	0.343	48 *	52-126
Endrin	0.500	0.109	0.374	53 *	56-121
4,4'-DDT	0.500	0.186	0.377	38	38-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD REC.	
gamma-BHC (Lindane)	0.200	0.201	82	-58 *	15	56-123
Heptachlor	0.200	0.176	70	-57 *	20	40-131
Aldrin	0.200	0.179	70	-52 *	22	40-120
Dieldrin	0.500	0.503	80	-50 *	18	52-126
Endrin	0.500	0.563	91	-53 *	21	56-121
4,4'-DDT	0.500	0.529	69	-58 *	27	38-127

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 6 out of 6 outside limitsSpike Recovery: 4 out of 12 outside limits

COMMENTS: DUE TO INSUFFICIENT SAMPLE THE MS + MSD WERE DONE USING DI WATER; THEREFORE THE VALUES ARE BEING COMPARED TO THE WATER BLANK.

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ACUREX Contract: _____
 Lab Code: ACUREX Case No.: 08117 SAS No.: _____ SDG No.: 759
 Matrix Spike - EPA Sample No.: 760DL Level: (low/med) MED
 75

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
gamma-BHC (Lindane)	200	0	0	0 *	46-127
Heptachlor	200	0	0	0 *	35-130
Aldrin	200	0	0	0 *	34-132
Dieldrin	500	0	0	0 *	31-134
Endrin	500	0	0	0 *	42-139
4,4'-DDT	500	456000	429000	-999 *	23-134

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS	
					RPD	REC.
gamma-BHC (Lindane)	200	0	0 *	0	50	46-127
Heptachlor	200	0	0 *	0	31	35-130
Aldrin	200	0	0 *	0	43	34-132
Dieldrin	500	0	0 *	0	38	31-134
Endrin	500	0	0 *	0	45	42-139
4,4'-DDT	500	515000	9999 *	-244 *	50	23-134

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 6 outside limits
 Spike Recovery: 12 out of 12 outside limits

COMMENTS:

4C
PESTICIDE METHOD BLANK SUMMARY

Lab Name: ACUREX Contract: _____
 Lab Code: ACUREX Case No.: 08117 SAS No.: _____ SDG No.: 759
 Lab Sample ID: 759BLK1C Lab File ID: _____
 Matrix: (soil/water) WATER Level: (low/med) LOW
 Date Extracted: 08/31/89 Extraction: (SepF/Cont/Sonc) CONT
 Date Analyzed (1): 09/13/89 Date Analyzed (2): 09/13/89
 Time Analyzed (1): 1415 Time Analyzed (2): 1415
 Instrument ID (1): 3400-1A Instrument ID (2): 3400-1B
 GC Column ID (1): DB608 GC Column ID (2): DB5

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	759	759E	09/13/89	09/13/89
02	759DL	759D	09/13/89	09/13/89
03	759MS	759MSC	09/13/89	09/13/89
04	759MSD	759MSDC	09/13/89	09/13/89

COMMENTS:

4C
PESTICIDE METHOD BLANK SUMMARY

Name: ACUREX Contract: _____
 Lab Code: ACUREX Case No.: 08117 SAS No.: _____ SDG No.: 759
 Lab Sample ID: 759BLK2C Lab File ID: _____
 Matrix: (soil/water) SOIL Level: (low/med) MED
 Date Extracted: 09/12/89 Extraction: (SepF/Cont/Sonc) SONC
 Date Analyzed (1): 09/13/89 Date Analyzed (2): 09/13/89
 Time Analyzed (1): 1054 Time Analyzed (2): 1055
 Instrument ID (1): 3400-1A Instrument ID (2): 3400-1B
 GC Column ID (1): DB608 GC Column ID (2): DB5

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	760	760C	09/13/89	09/13/89
02	760MS	760MSC	09/13/89	09/13/89
03	760MSD	760MSDC	09/13/89	09/13/89
04	761	761C	09/13/89	09/13/89

COMMENTS:

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

759DL

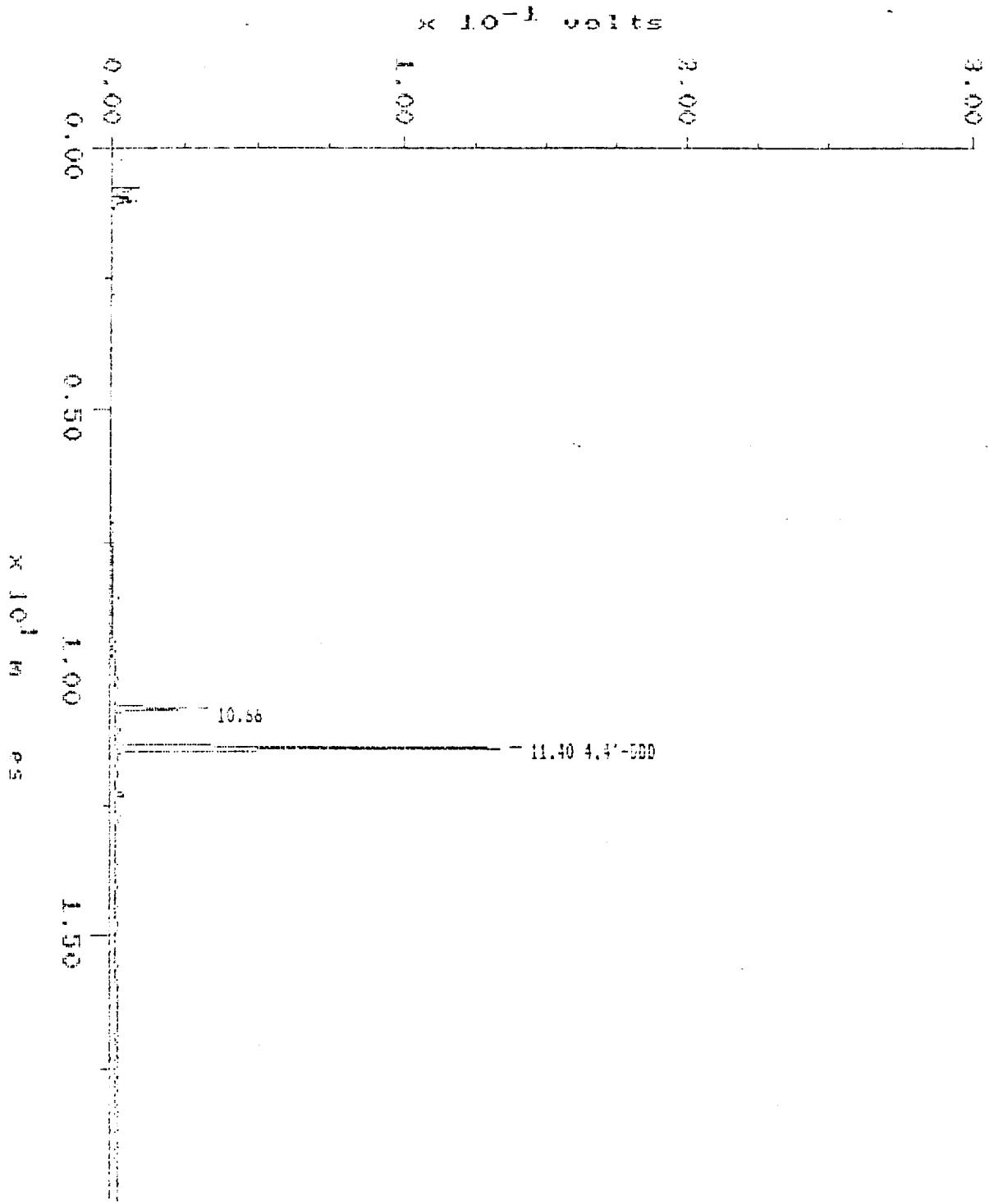
Name: ACUREX Contract: _____
 Lab Code: ACUREX Case No.: 08117 SAS No.: _____ SDG No.: 759
 Matrix: (soil/water) WATER Lab Sample ID: 759D
 Sample wt/vol: 370.0 (g/mL) ML Lab File ID: _____
 Level: (low/med) LOW Date Received: 08/29/89
 % Moisture: not dec. _____ dec. _____ Date Extracted: 08/31/89
 Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 09/13/89
 GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 25000

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO. COMPOUND Q

319-84-6-----alpha-BHC	3400	U
319-85-7-----beta-BHC	3400	U
319-86-8-----delta-BHC	3400	U
58-89-9-----gamma-BHC (Lindane)	3400	U
76-44-8-----Heptachlor	3400	U
309-00-2-----Aldrin	3400	U
1024-57-3-----Heptachlor epoxide	3400	U
959-98-8-----Endosulfan I	3400	U
60-57-1-----Dieldrin	6800	U
72-55-9-----4,4'-DDE	6800	U
72-20-8-----Endrin	6800	U
33213-65-9-----Endosulfan II	6800	U
72-54-8-----4,4'-DDD	96000	D
1031-07-8-----Endosulfan sulfate	6800	U
50-29-3-----4,4'-DDT	6800	U
72-43-5-----Methoxychlor	34000	U
53494-70-5-----Endrin ketone	6800	U
5103-71-9-----a. Chlordane	34000	U
5103-74-2-----g. Chlordane	34000	U
8001-35-2-----Toxaphene	68000	U
12674-11-2-----Aroclor-1016	34000	U
11104-28-2-----Aroclor-1221	34000	U
11141-16-5-----Aroclor-1232	34000	U
53469-21-9-----Aroclor-1242	34000	U
12672-29-6-----Aroclor-1248	34000	U
11097-69-1-----Aroclor-1254	68000	U
11096-82-5-----Aroclor-1260	68000	U

Sample: 759.D.2L.D Channel: ECD-1A Filename: 0811701
Acquired: 13-SEP-99 15:27 Method: C:\MANA\DATA\IN\SEPT\8909125 Operator: CSJ
Dilution: 1 : ~~2500~~ 25000 Inj Vol: 2.00
Comments: PRIMARY COLUMN DB-608 MEGABORE 3400-1A ACUREX ERD 8093CLP CASE# 8903117



MAXIMA 820 CUSTOM REPORT

Printed: 13-SEP-1989 15:22:44

SAMPLE: 759,D,CL,C

#22 in Method: 09-12/89,P,N
Acquired: 13-SEP-1989 15:27
Rate: 2.3 points/sec
Duration: 19.998 minutes
Operator: GGG

Type: UNKN
Instrument: 3400-1A
Filename: 08117D1
Index: Disk
Injection Volume: 2.0
Dilution: ~~2500.000~~ 25,000 *CHJ*
Reagent: 1.000

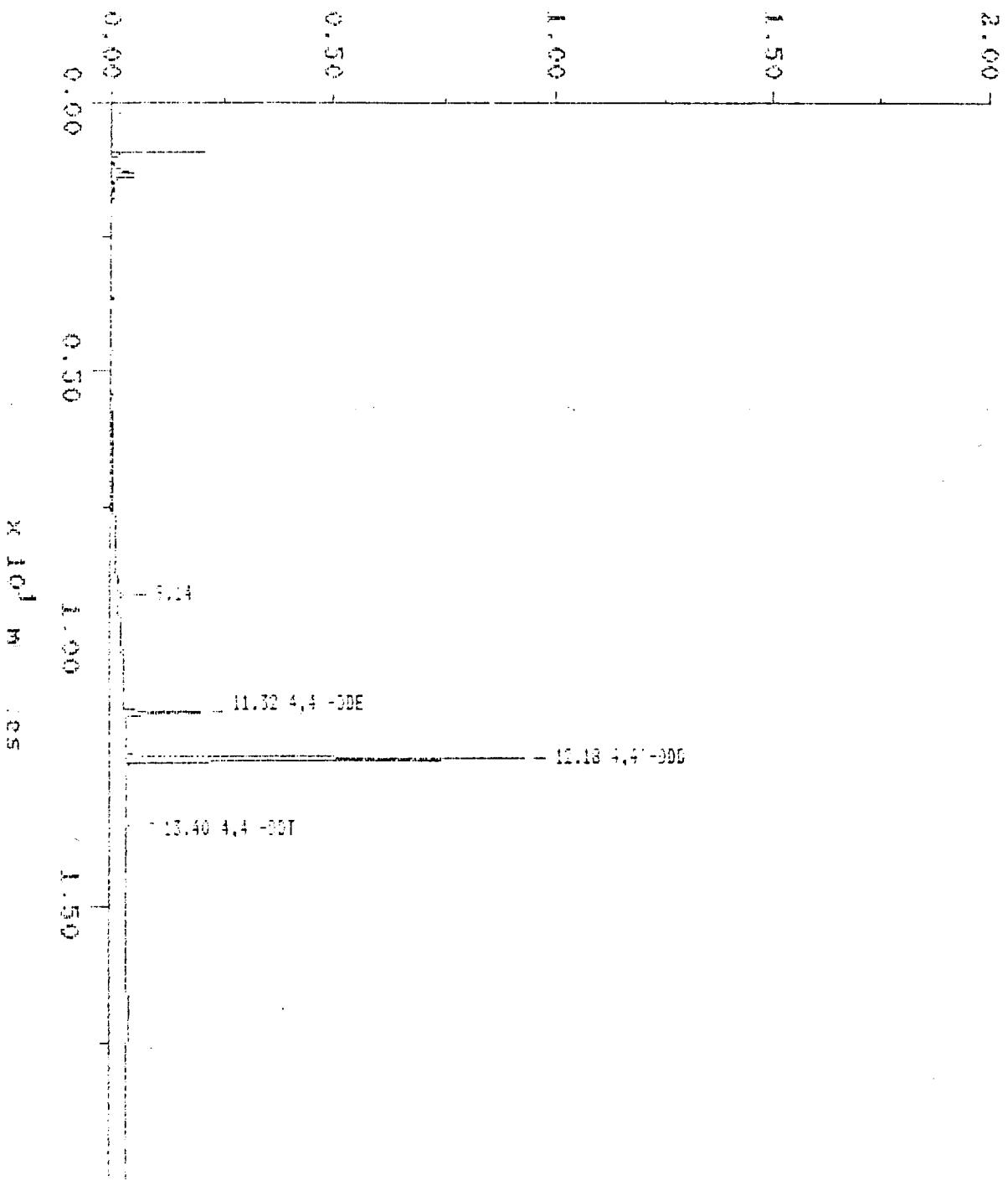
DETECTOR: EED-1A

PK#	Component Name	Retention Time (minutes)	Peak Area	Solution Conc (ng/ul)	Type	Code	Base
1		10.663	86947		BB		
2	4,4'-DDB	11.396	523234	0.142011	BB	EXT	AREA
TOTAL			610182	0.142011			

all calculation based on peak response more than 10% outside of calibration range.

Sample: 789.D.DL.C Channel: ECD-19 Filename: 8611701
Acquired: 13-SEP-87 15:27 Method: C:\MSK\DATA\18\SEP\87\8709128 Operator: CSG
Dilution: 1 : 2500 ~~100~~ 2500 Amount: 1.000 Inj Vol: 2.00
Comments: CONFIRMATION DR-5 MESAORE 3430-18 ACUREX ERD 8080CLF CASE #8903117

$\times 10^{-1}$ volts



MAXIMA 820 CUSTOM REPORT

Printed: 13-SEP-1989 17:34:25

SAMPLE: 759.D.DL.C

422 in Method: 09.12/69.C.H
 Acquired: 13-SEP-1989 15:27
 Rate: 2.3 points/sec
 Duration: 19.958 minutes
 Operator: DGG

Type: UNKN
 Instrument: 3400-15
 Filename: 8811701
 Index: Disk
 Injection Volume: 1.0
 Dilution: ~~1.0~~ ²⁵⁰⁰⁰
 Amount: 1.000 _{RS}

DETECTOR: EDC-1B

PK#	Component Name	Retention Time (minutes)	Peak Area	Solution Conc (ng/ul)	Type	Code	Base
1	<i>CH8</i>	9.137	4044		BB		
2	4.4-BEE RT off not comb	11.315	62523	0.1284!!! <i>CH8</i>	BB	EXT	AREA
3	4.4-BEE	12.151	374424	0.1284!!!	BB	EXT	AREA
4	4.4-BEE DL	13.398	7990	0.1284!!! <i>CH8</i>	BB	EXT	AREA
TOTAL			448892	0.1485!!!			

!! Result calculation based on peak response more than 10% outside of calibration range.

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

759

Lab Name: ACUREX Contract: _____

Lab Code: ACUREX Case No.: 08117 SAS No.: _____ SDG No.: 759

Matrix: (soil/water) WATER Lab Sample ID: 759E

Sample wt/vol: 370.0 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 08/29/89

% Moisture: not dec. _____ dec. _____ Date Extracted: 08/31/89

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 09/13/89

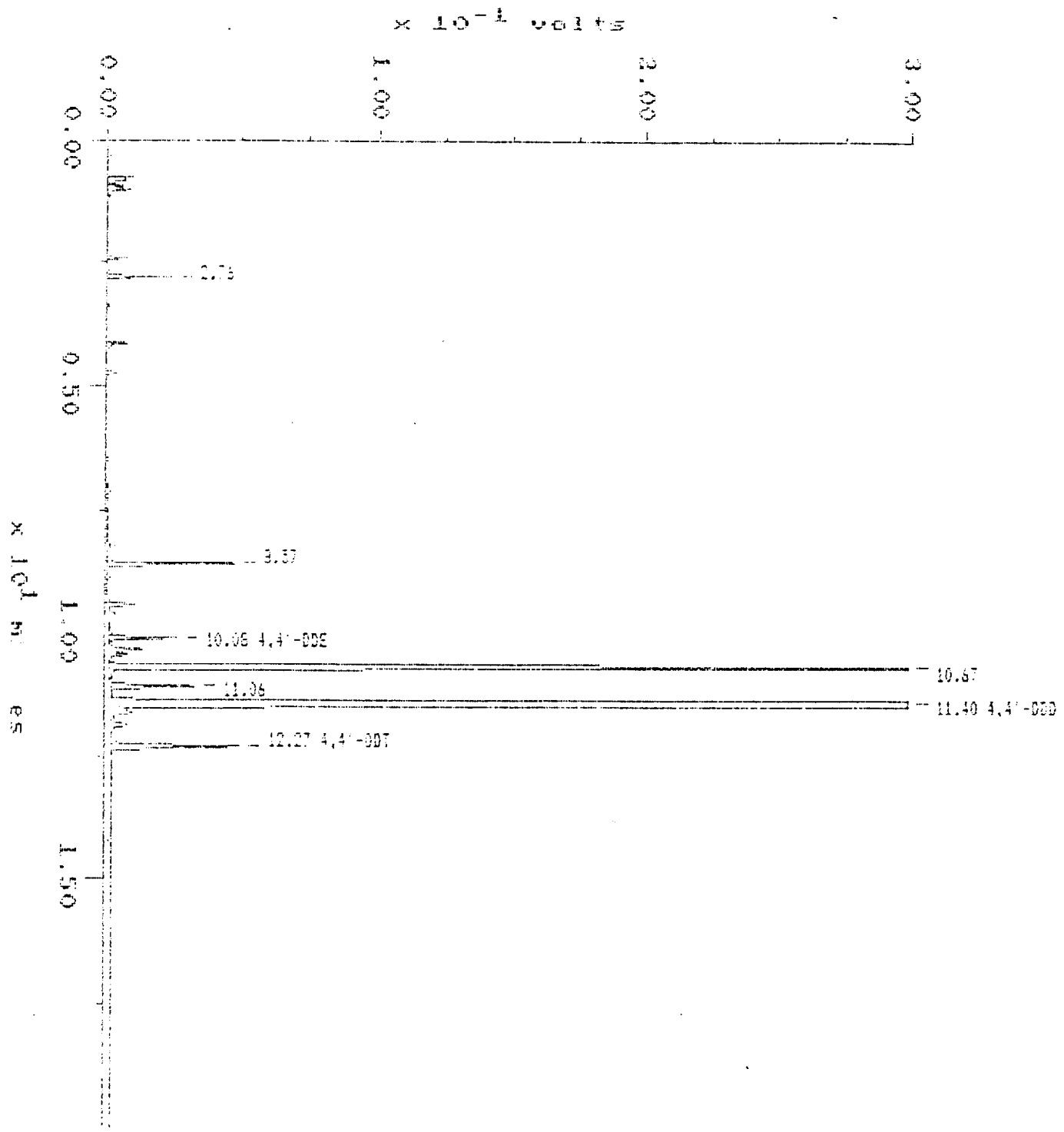
GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1000

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

319-84-6-----alpha-BHC	140	U
319-85-7-----beta-BHC	140	U
319-86-8-----delta-BHC	140	U
58-89-9-----gamma-BHC (Lindane)	140	U
76-44-8-----Heptachlor	140	U
309-00-2-----Aldrin	140	U
1024-57-3-----Heptachlor epoxide	140	U
959-98-8-----Endosulfan I	140	U
60-57-1-----Dieldrin	270	U
72-55-9-----4,4'-DDE	460	
72-20-8-----Endrin	270	U
33213-65-9-----Endosulfan II	270	U
72-54-8-----4,4'-DDD	34000	E
1031-07-8-----Endosulfan sulfate	270	U
50-29-3-----4,4'-DDT	1300	B
72-43-5-----Methoxychlor	1400	U
53494-70-5-----Endrin ketone	270	U
5103-71-9-----a. Chlordane	1400	U
5103-74-2-----g. Chlordane	1400	U
8001-35-2-----Toxaphene	2700	U
12674-11-2-----Aroclor-1016	1400	U
11104-28-2-----Aroclor-1221	1400	U
11141-16-5-----Aroclor-1232	1400	U
53469-21-9-----Aroclor-1242	1400	U
12672-29-6-----Aroclor-1248	1400	U
11097-69-1-----Aroclor-1254	2700	U
11096-82-5-----Aroclor-1260	2700	U

Sample: 759.E.DL.C Channel: ECD-1A Filename: 08117E1
 Acquired: 10-SEP-89 15:51 Method: C:\MSA\DATA\1\1\SEPT\16509129 Operator: CGJ
 Dilution: 1 : 1000.000 Amount: 1.000 Inj Vol: 2.00
 Comments: PRIMARY COLUMN DB-608 MEGAQRE 3400-1A ACUREX ERG 8080CLP CASE# 8908117



MAXIMA 820 CUSTOM REPORT

Printed: 10-SEP-1989 16:26:01

SAMPLE: 759;E.D.L.C

#23 in Method: 09/12/89.P.H
 Acquired: 10-SEP-1989 15:51
 Rate: 2.0 points/sec
 Duration: 19.998 minutes
 Operator: JJJ

Type: UNKN
 Instrument: 3400-1A
 Filename: 08117E1
 Index: 1
 Injection Volume: 2.0
 Dilution: 1000.000
 Assay: 1.000

DETECTOR: ECD-1A

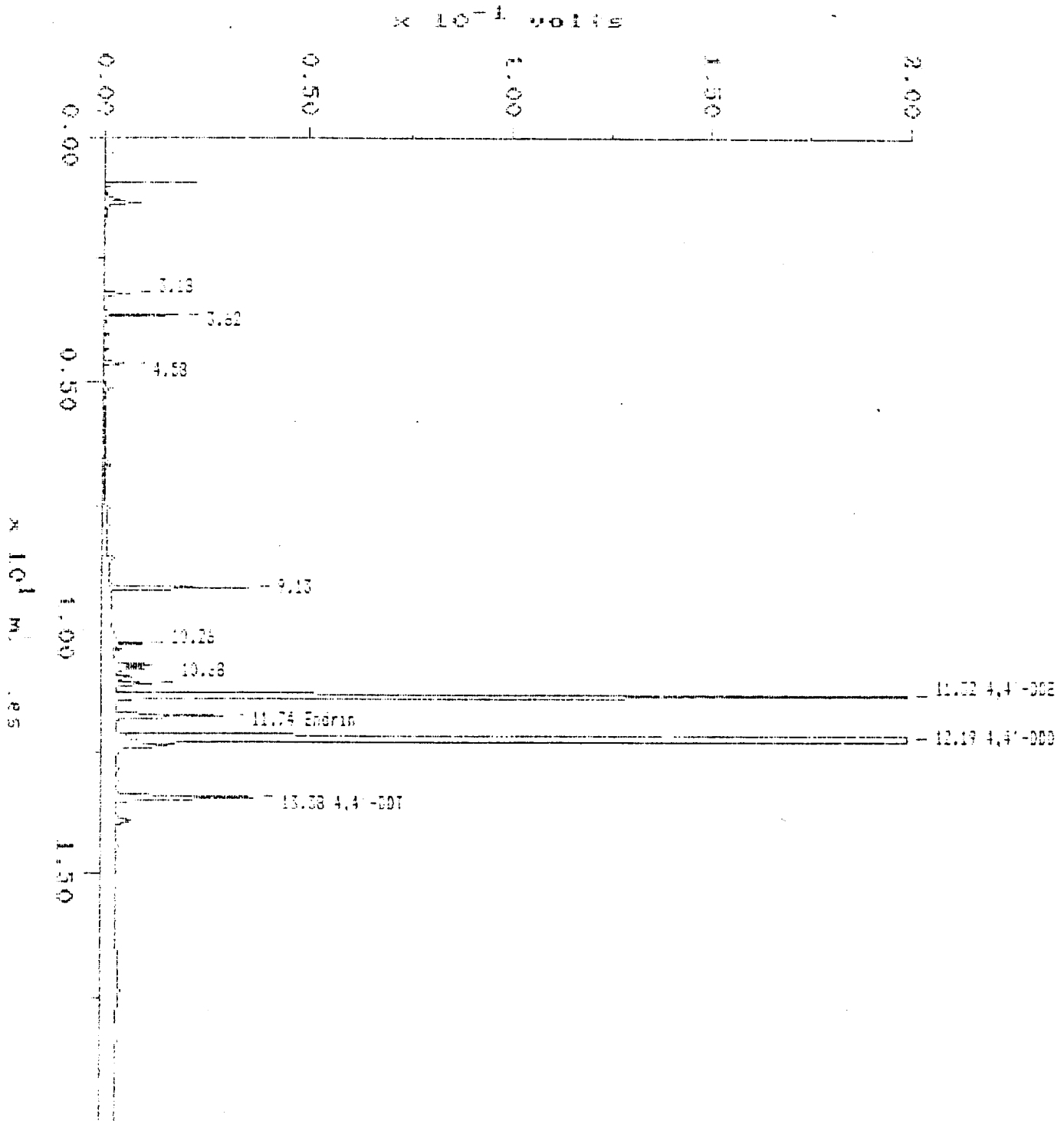
PX#	Component Name	Retention Time (minutes)	Peak Area	Solution Conc (ng/ul)	Type	Code	Base
1		2.765	58248		BB		
2		8.573	139064		BB		
3	4,4'-DDE	10.076	60777	0.0171	BB	EXT	AREA
4		10.670	1683918		BB		
5		11.059	115910		BB		
6	4,4'-DDD	11.403	4887638	1.2885!!	BB	EXT	AREA
7	4,4'-DDT	12.289	216747	0.0499	BB	EXT	AREA
TL			8962301	1.3335!!			

!! Result calculation based on peak response more than 10% outside of calibration range.

Sample: 759.E.0L.0
Acquired: 13-SEP-89 15:51
Dilution: 1 : 1000.000
Comments: CONFIRMATION DR-5 MEGABORE 3400-19 ACUREX ERO 9060CLP CASE #8908117

Channel: 820-18
Method: C:\MAX\DATA\13\SEPT\3909128
Amount: 1.000

Filename: 8911781
Operator: CGJ
Inj Vol: 2.00



MAXIMA 820 CUSTOM REPORT

Printed: 13-SEP-1989 17:39:14

SAMPLE: 757.2.DL.C

#23 in Method: 09 12.59.D.M
 Acquired: 13-SEP-1989 15:51
 Rate: 2.3 points/sec
 Duration: 19.998 minutes
 Operator: BCB

Type: UNKN
 Instrument: 8400-16
 Filename: 89117E1
 Index: Disk
 Injection Volume: 2.0
 Dilution: 1000.000
 Amount: 1.000

DETECTOR: EDD-18

PK#	Component Name	Retention Time (minutes)	Peak Area	Solution Conc (ng/ul)	Type	Code	Base
1		3.183	15577		SB		
2		3.523	42235		SB		
3		4.533	14268		SB		
4		9.130	99929		SB		
5		10.257	20632		SB		
6		10.585	19264		SB		
7	4,4'-DDE <i>cf</i>	11.073	27639	0.0079 <i>cf</i>	SB		
	4,4'-DDE <i>cf</i>	11.315	1182976	4.75500 <i>cf</i>	SB	EXT	AREA
	Endrin 2T off <i>cf</i> not conf.	11.741	102250	4.1208 <i>cf</i>	SB	EXT	AREA
10	4,4'-DDD	12.188	3295637	1.130311	SB	EXT	AREA
11	4,4'-DDT	13.363	162746	0.0500	SB	EXT	AREA
TOTAL			4983140	1.542611			

!! Result calculation based on peak response more than 10% outside of calibration range.

$$4,4\text{'-DDE CONC.} = \frac{27639}{3493100} = 0.0079$$

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

760

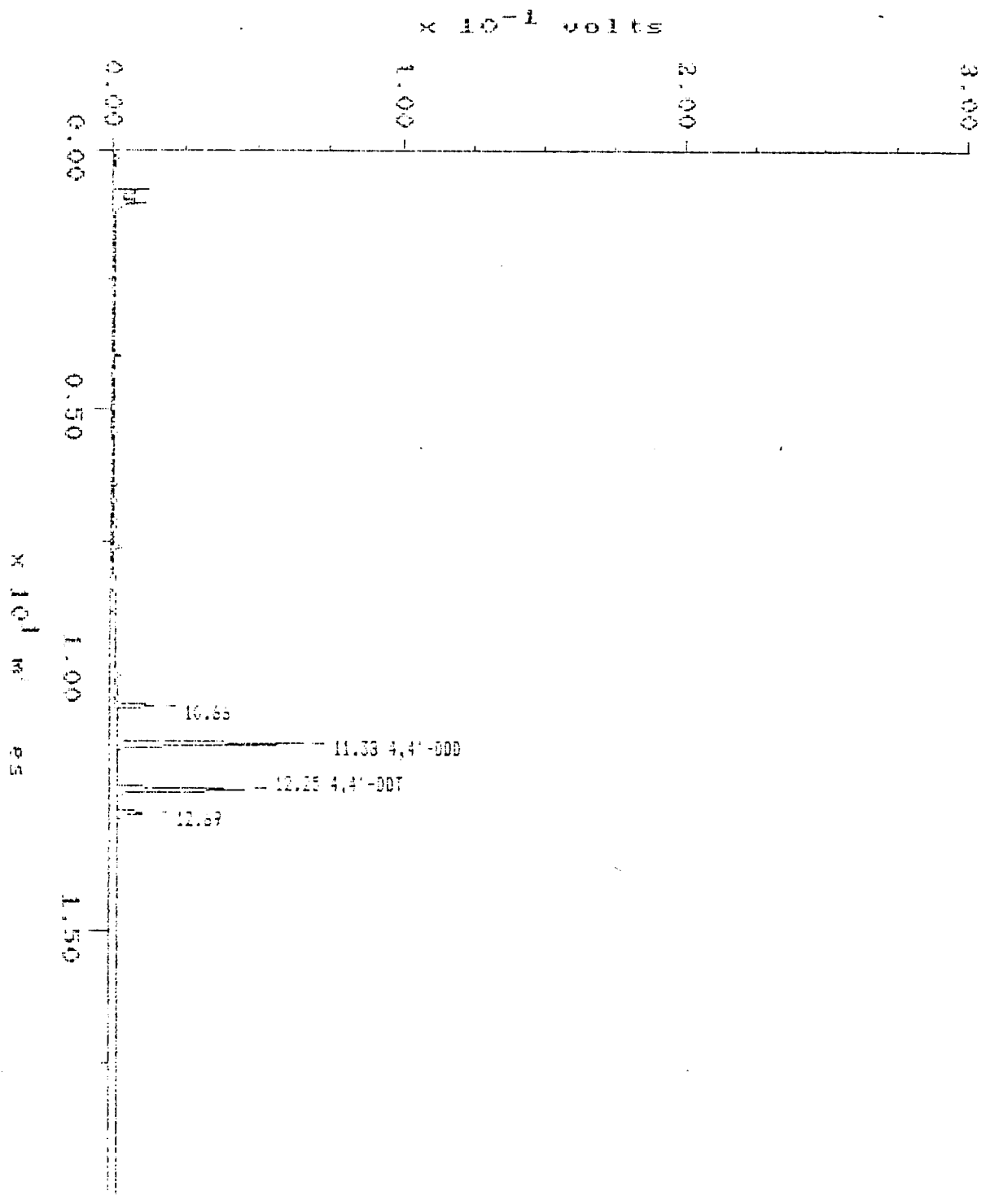
Lab Code: ACUREX Case No.: 08117 SAS No.: _____ SDG No.: 759
 Matrix: (soil/water) SOIL Lab Sample ID: 760C
 Sample wt/vol: 1.0 (g/mL) G Lab File ID: _____
 Level: (low/med) MED Date Received: 08/29/89
 % Moisture: not dec. 0 dec. _____ Date Extracted: 09/12/89
 Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 09/13/89
 GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1000

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO. COMPOUND Q

319-84-6-----	alpha-BHC	120000	U
319-85-7-----	beta-BHC	120000	U
319-86-8-----	delta-BHC	120000	U
58-89-9-----	gamma-BHC (Lindane)	120000	U
76-44-8-----	Heptachlor	120000	U
309-00-2-----	Aldrin	120000	U
1024-57-3-----	Heptachlor epoxide	120000	U
959-98-8-----	Endosulfan I	120000	U
60-57-1-----	Dieldrin	240000	U
72-55-9-----	4,4'-DDE	240000	U
72-20-8-----	Endrin	240000	U
33213-65-9-----	Endosulfan II	240000	U
72-54-8-----	4,4'-DDD	750000	
1031-07-8-----	Endosulfan sulfate	240000	U
50-29-3-----	4,4'-DDT	460000	
72-43-5-----	Methoxychlor	1200000	U
53494-70-5-----	Endrin ketone	240000	U
5103-71-9-----	a. Chlordane	1200000	U
5103-74-2-----	g. Chlordane	1200000	U
8001-35-2-----	Toxaphene	2400000	U
12674-11-2-----	Aroclor-1016	1200000	U
11104-28-2-----	Aroclor-1221	1200000	U
11141-16-5-----	Aroclor-1232	1200000	U
53469-21-9-----	Aroclor-1242	1200000	U
12672-29-6-----	Aroclor-1248	1200000	U
11097-69-1-----	Aroclor-1254	2400000	U
11096-82-5-----	Aroclor-1260	2400000	U

Sample: 180.5.11.C Channel: ECD-1A Filename: 0811701
Acquired: 13-SEP-89 12:14 Method: C:\MAX\DATA\1\SEPT\890912B Operator: G30
Dilution: 1 : 1000.000 Amount: 1.000 Inj Vol: 2.00
Comments: PRIMARY COLUMN DB-608 MEGABORE 3400-1A ACUREX ERD 90805LP CASE# 8908117



MAXIMA 820 CUSTOM REPORT

Printed: 13-SEP-1989 16:05:54

SAMPLE: 7501C.DL.C

#14 in Method: 09/12/89.P.M
 Acquired: 13-SEP-1989 12:14
 Rate: 2.3 points/sec
 Duration: 19.998 minutes
 Operator: C33

Type: UNKN
 Instrument: 7400-1A
 Filename: 0811702
 Index: Disk
 Injection Volume: 2.0
 Dilution: 1000.000
 Amount: 1.000

DETECTOR: ECD-1A

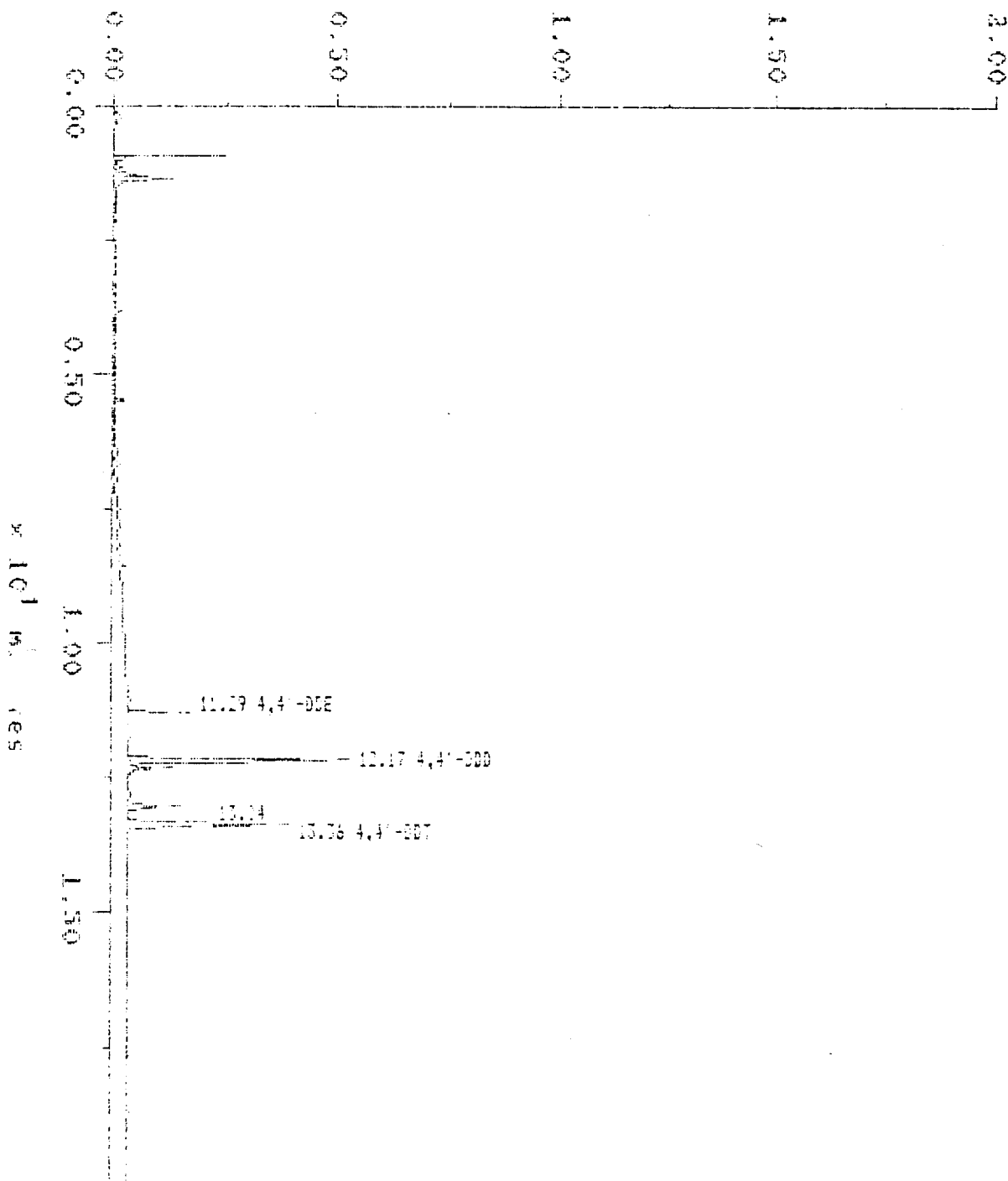
PK#	Component Name	Retention Time (minutes)	Peak Area	Solution Conc (ng/ul)	Type	Code	Base
1		10.655	45739		SS		
2	4,4'-DDD	11.381	276318	0.0750!!	SS	EXT	AREA
3	4,4'-DDT	12.254	177979	0.0456	SS	EXT	AREA
4		12.674	49410		SS		
TOTAL			569446	0.1205!!			

!! Result calculation based on peak response more than 10% outside of calibration range.

Sample: 730,C,,C Channel: ECD-15
Acquired: 13-SEP-69 12:14 Method: C:\MAX\DATA\18\SEPT\6909128
Dilution: 1 : 1000.000 Amount: 1.000
Comments: CONFIRMATION DB-5 MEGABORE 3400-18 ACUREX ERO 3080CLP CASE #8909117

Filename: 9811702
Operator: CGJ
Inj Vol: 2.00

$\times 10^{-1}$ volts



1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

761

Name: ACUREX Contract: _____
 Lab Code: ACUREX Case No.: 08117 SAS No.: _____ SDG No.: 759
 Matrix: (soil/water) SOIL Lab Sample ID: 761C
 Sample wt/vol: 1.0 (g/mL) G Lab File ID: _____
 Level: (low/med) MED Date Received: 08/29/89
 % Moisture: not dec. 0 dec. _____ Date Extracted: 09/12/89
 Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 09/13/89
 GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1000

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

319-84-6-----alpha-BHC	120000	U
319-85-7-----beta-BHC	21000	J
319-86-8-----delta-BHC	120000	U
58-89-9-----gamma-BHC (Lindane)	120000	U
76-44-8-----Heptachlor	120000	U
309-00-2-----Aldrin	120000	U
1024-57-3-----Heptachlor epoxide	120000	U
959-98-8-----Endosulfan I	120000	U
60-57-1-----Dieldrin	240000	U
72-55-9-----4,4'-DDE	240000	U
72-20-8-----Endrin	240000	U
33213-65-9-----Endosulfan II	240000	U
72-54-8-----4,4'-DDD	130000	J
1031-07-8-----Endosulfan sulfate	240000	U
50-29-3-----4,4'-DDT	290000	
72-43-5-----Methoxychlor	1200000	U
53494-70-5-----Endrin ketone	240000	U
5103-71-9-----a. Chlordane	1200000	U
5103-74-2-----g. Chlordane	1200000	U
8001-35-2-----Toxaphene	2400000	U
12674-11-2-----Aroclor-1016	1200000	U
11104-28-2-----Aroclor-1221	1200000	U
11141-16-5-----Aroclor-1232	1200000	U
53469-21-9-----Aroclor-1242	1200000	U
12672-29-6-----Aroclor-1248	1200000	U
11097-69-1-----Aroclor-1254	2400000	U
11096-82-5-----Aroclor-1260	2400000	U

MAXIMA 820 CUSTOM REPORT

Printed: 10-SEP-1989 16:41:01

SAMPLE: 76070,,0

#14 in Method: 09/12/89,C,M
 Acquired: 10-SEP-1989 12:14
 Rate: 2.0 points/sec
 Duration: 19.999 minutes
 Operator: C33

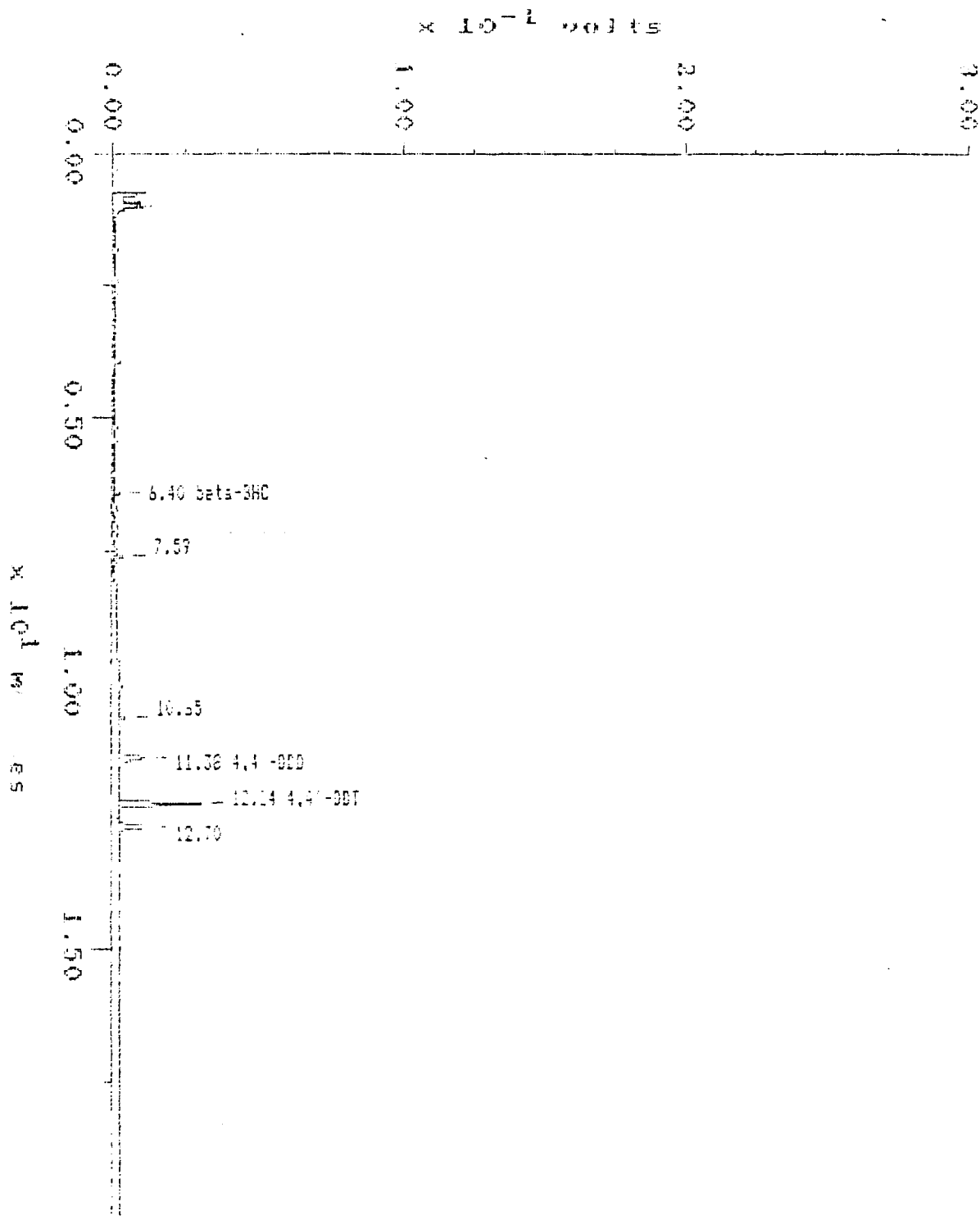
Type: UNKN
 Instrument: 1400-1B
 Filename: 5811702
 Index: Disk
 Injection Volume: 2.0
 Dilution: 1000.000
 Amount: 1.000

DETECTOR: ECD-1B

PK#	Component Name	Retention Time (minutes)	Peak Area	Solution Conc (ng/ul)	Type	Code	Base
1	4,4-DDE <i>not conf C8y</i>	11.293	32020	0.0070 <i>DL C8y</i>	SB	EXT	AREA
2	4,4-DDE	12.166	181553	0.061311	SB	EXT	AREA
3		12.327	15224		SB		
4		13.039	31256		SB		
5	4,4-DDE	13.361	149073	0.0458	SB	EXT	AREA
TOTAL			410125	0.117111			

!! Result calculation based on peak response more than 10% outside of calibration range.

Sample: 761, C, D, C, C, C
 Channel: ECD-1A
 File name: 0911703
 Acquired: 13-SEP-89 13:27
 Method: C:\NAX\DATA\ANSEPT\8909128
 Operator: CCG
 Dilution: 1 : 1000.000
 Amount: 1.000
 Inj Vol: 2.00
 Comments: PRIMARY COLUMN DB-603 MEGAWARE 3400-1A ACUREX ERD 8080CLF CASE# 8903117



MAXIMA 820 CUSTOM REPORT

Printed: 13-SEP-1989 16:11:48

SAMPLE: 761, C, α, C, C, C

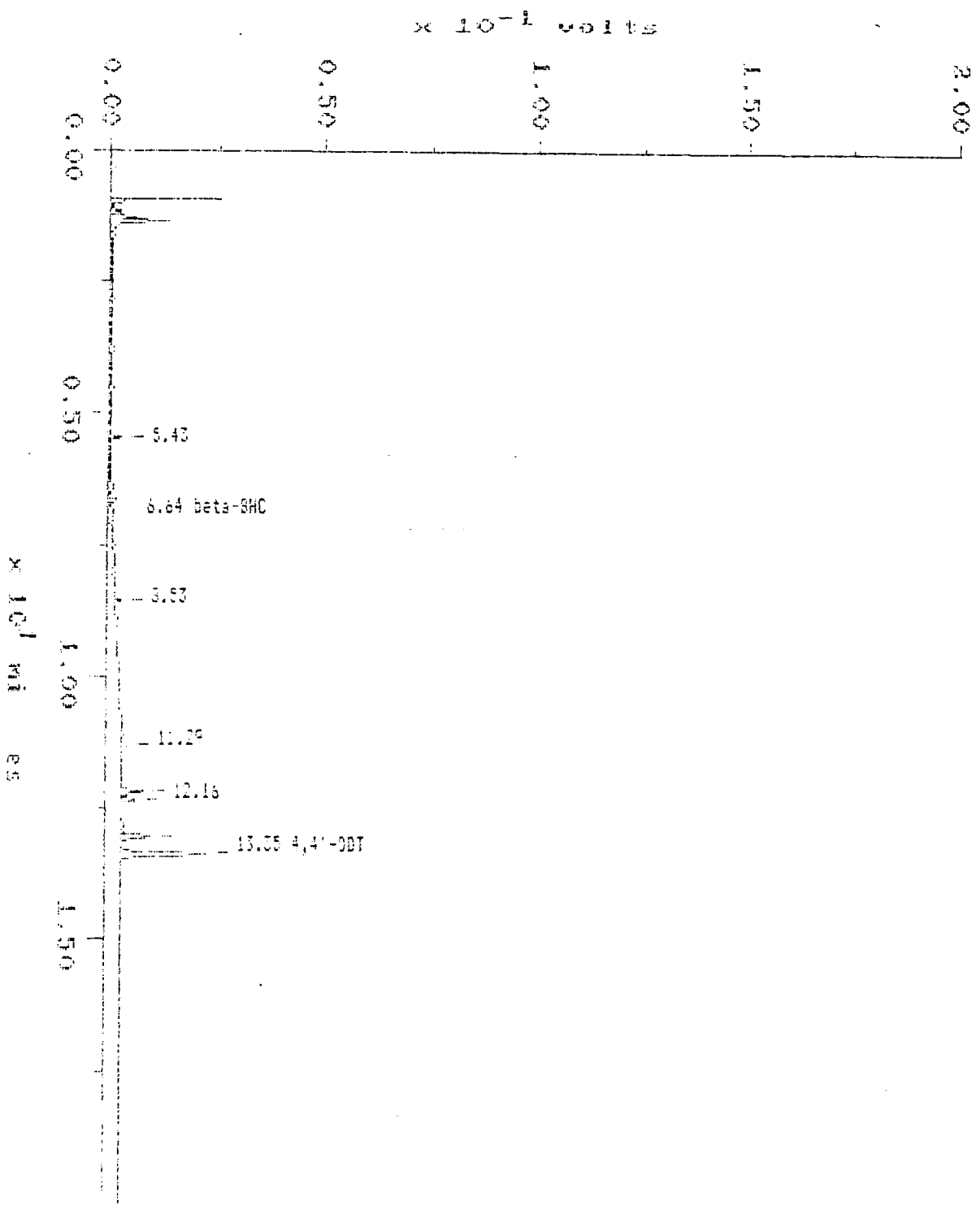
#17 in Method: 09/12/89.P.M
 Acquired: 13-SEP-1989 13:27
 Rate: 2.3 points/sec
 Duration: 19.998 minutes
 Operator: CDD

Type: UNKN
 Instrument: 3400-1A
 Filename: 0811707
 Index: Disk
 Injection Volume: 2.0
 Dilution: 1000.000
 Amount: 1.000

DETECTOR: ECD-1A

PK#	Component Name	Retention Time (minutes)	Peak Area	Solution Conc (ng/ul)	Type	Code	Base
1	beta-BHC	6.402	4848	0.0021	ES	EXT	AREA
2		7.570	8056		ES		
3		10.346	5925		ES		
4	4,4'-DDB	11.381	48022	0.0130	ES	EXT	AREA
5	4,4'-DDT	12.239	126761	0.0292	ES	EXT	AREA
6		12.701	51833		ES		
			248765	0.0443			

Sample: T610.00 Channel: ECD-18 Filename: 9811703
Acquired: 10-SEP-89 13:27 Method: D:\MAX\DATA\18\SEPT\89\T610.00 Operator: CSZ
Dilution: 1 : 1000.000 Amount: 1.000 Inj Vol: 2.00
Comments: CONFIRMATION DR-5 MESAFORE 3400-18 ACUREX ERO 3080CLP CASE #8908117



MAXIMA 820 CUSTOM REPORT

Printed: 13-SEP-1999 16:48:15

SAMPLE: 7e1707C

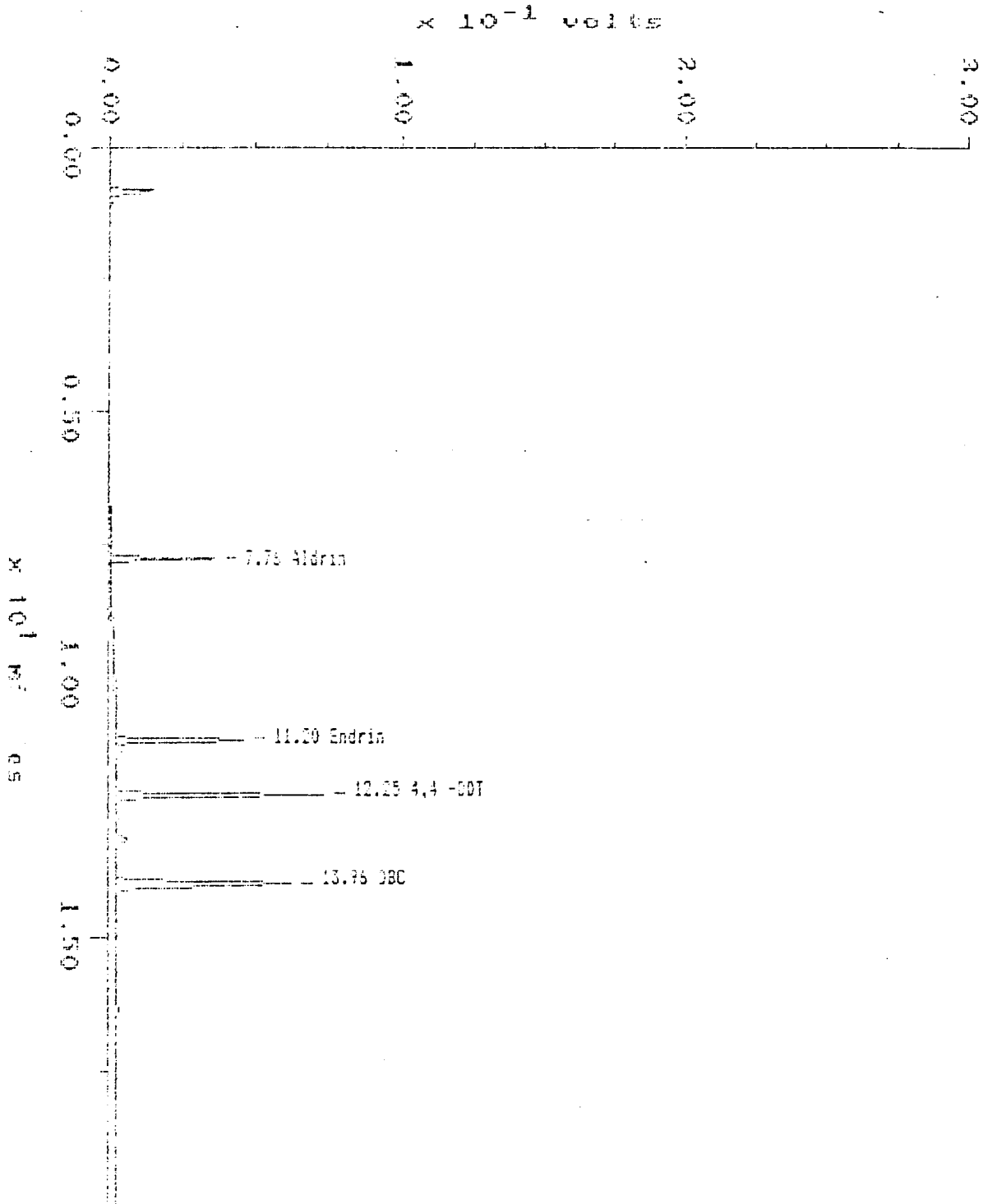
#17 in Method: 09/12/89.C.N
 Acquired: 13-SEP-1999 13:27
 Rate: 2.3 points/sec
 Duration: 19.998 minutes
 Operator: CSJ

Type: URUN
 Instrument: 3400-15
 Filename: 6911/03
 Index: Disk
 Injection Volume: 2.0
 Dilution: 1000.000
 Amount: 1.000

DETECTOR: ECD-18

PK#	Component Name	Retention Time (minutes)	Peak Area	Solution Conc (ng/ul)	Type	Code	Base
1		5.434	5976		SP		
2	beta-BHC	6.637	3858	0.0024	SP	EXT	AREA
3		8.529	3858		SP		
4		11.286	4574		SP		
5		12.159	20121		SP		
6	4,4'-DDB	12.317	13308	0.0046	SP	EXT	AREA
7		13.024	33860		SP		
8	4,4'-DDT	13.354	92600	0.0285	SP	EXT	AREA
TOTAL			177853	0.0355			

Sample: EVALA.1 Channel: EGC-1A Filename: 8EVALA2
Acquired: 12-SEP-89 15:55 Method: C:\MSA\DATA\1\SEP74\8909125 Operator: CJS
Inj Vol: 2.00
Comments: PRIMARY COLUMN DB-603 MESAORE 3400-1A HOUSEK EPC 8080CLP BASE# 8908117



8D
PESTICIDE EVALUATION STANDARDS SUMMARY

Lab Name: ACUREX Contract: _____
 Label: ACUREX Case No.: 08117 SAS No.: _____ SDG No.: 759
 Instrument ID: 3400-1A GC Column ID: DB608
 Dates of Analyses: 09/12/89 to 09/13/89

Evaluation Check for Linearity

PESTICIDE	CALIBRATION FACTOR EVAL MIX A	CALIBRATION FACTOR EVAL MIX B	CALIBRATION FACTOR EVAL MIX C	%RSD (\leq 10.0%)
Aldrin	3060000	3240000	3460000	6.2
Endrin	2240000	2270000	2340000	2.2
4,4'-DDT	2020000	2050000	2040000	0.8
DBC	1920000	1930000	1940000	0.5

(1)

(1) If $> 10.0\%$ RSD, plot a standard curve and determine the ng for each sample in that set from the curve.

Evaluation Check for 4,4'-DDT/Endrin Breakdown
(percent breakdown expressed as total degradation)

	DATE ANALYZED	TIME ANALYZED	ENDRIN	4,4'-DDT	COMBINED (2)
INITIAL					
01 EVAL MIX B	09/12/89	1925	2.2	1.6	
02 EVAL MIX B	09/13/89	1351	3.0	1.5	

(2) See Form instructions.

8D
PESTICIDE EVALUATION STANDARDS SUMMARY

Lab Name: ACUREX Contract: _____
 L. Code: ACUREX Case No.: 08117 SAS No.: _____ SDG No.: 759
 Instrument ID: 3400-1B GC Column ID: DB5
 Dates of Analyses: 09/12/89 to 09/13/89

Evaluation Check for Linearity

PESTICIDE	CALIBRATION FACTOR EVAL MIX A	CALIBRATION FACTOR EVAL MIX B	CALIBRATION FACTOR EVAL MIX C	%RSD (\leq 10.0%)
Aldrin	2130000	2160000	2220000	2.1
Endrin	1790000	1800000	1840000	1.5
4,4'-DDT	1530000	1540000	1520000	0.7
DBC	1380000	1340000	1430000	3.3

(1)

(1) If $> 10.0\%$ RSD, plot a standard curve and determine the ng for each sample in that set from the curve.

Evaluation Check for 4,4'-DDT/Endrin Breakdown
(percent breakdown expressed as total degradation)

	DATE ANALYZED	TIME ANALYZED	ENDRIN	4,4'-DDT	COMBINED (2)
01 INITIAL EVAL MIX B	09/12/89	1925	2.2	1.3	
02 EVAL MIX B	09/13/89	1351	2.3	0.0	

(2) See Form instructions.

8E
 PESTICIDE EVALUATION STANDARDS SUMMARY
 Evaluation of Retention Time Shift for Dibutylchloroendate

Lab Name: ACUREX Contract: _____
 Lab Code: ACUREX Case No.: 08117 SAS No.: _____ SDG No.: 759
 Instrument ID: 3400-1A GC Column ID: DB608
 Dates of Analyses: 09/12/89 to 09/13/89

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	% D	*
01	EVALA	BEVALA2	09/12/89	1856	0.0	
02	EVALB	BEVALB2	09/12/89	1925	0.1	
03	EVALC	BEVALC2	09/12/89	1950	0.1	
04	INDA	BINDA2	09/12/89	2014	0.1	
05	INDB	BINDB2	09/12/89	2038	0.3	
06	TOXAPH	BTOX1	09/12/89	2102	0.1	
07	AR1660	B16601	09/12/89	2126	0.1	
08	AR1221	B12211	09/12/89	2150	0.1	
09	AR1232	B12321	09/12/89	2214	0.0	
10	AR1242	B12421	09/12/89	2238	0.0	
11	AR1248	B12481	09/12/89	2302	0.0	
12	AR1254	B12541	09/12/89	2326	0.0	
13	PBLK2	759BLK2C	09/13/89	1054	0.0	
14	760	760C	09/13/89	1214		*
15	760MS	760MSC	09/13/89	1239		*
16	760MSD	760MSDC	09/13/89	1303		*
17	761	761C	09/13/89	1327		*
18	EVALB	BEVALB2	09/13/89	1351	0.0	
19	PBLK1	759BLK1C	09/13/89	1415	0.0	
20	759MS	759MSC	09/13/89	1439	0.0	
21	759MSD	759MSDC	09/13/89	1503	-0.1	
22	759DL	759D	09/13/89	1527		*
23	759	759E	09/13/89	1551		*
24	INDA	BINDA2	09/13/89	1615	0.0	
25	INDB	BINDB2	09/13/89	1639	0.0	

* Values outside of QC limits (2.0% for packed columns, 0.3% for capillary columns)

8E
 PESTICIDE EVALUATION STANDARDS SUMMARY
 Evaluation of Retention Time Shift for Dibutylchloroendate

Lab Name: ACUREX Contract: _____
 Lab Code: ACUREX Case No.: 08117 SAS No.: _____ SDG No.: 759
 Instrument ID: 3400-1B GC Column ID: DB5
 Dates of Analyses: 09/12/89 to 09/13/89

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	% D	*
01	EVALA	BVALA2	09/12/89	1856	0.0	
02	EVALB	BVALB2	09/12/89	1925	0.1	
03	EVALC	BVALC2	09/12/89	1949	0.2	
04	INDA	BNDA2	09/12/89	2014	0.2	
05	INDB	BNDB2	09/12/89	2038	0.3	
06	TOXAPH	BOX1	09/12/89	2102	0.1	
07	AR1660	B6601	09/12/89	2126	0.1	
08	AR1221	B2211	09/12/89	2150	0.1	
09	AR1232	B2321	09/12/89	2214	0.1	
10	AR1242	B2421	09/12/89	2238	0.1	
11	AR1248	B2481	09/12/89	2302	0.1	
12	AR1254	B2541	09/12/89	2326	0.1	
13	PBLK2	759BLK2C	09/13/89	1055	0.0	
14	760	760C	09/13/89	1214		*
15	760MS	760MSC	09/13/89	1239		*
16	760MSD	760MSDC	09/13/89	1303		*
17	761	761C	09/13/89	1327		*
18	EVALB	BVALB2	09/13/89	1351	0.1	
19	PBLK1	759BLK1C	09/13/89	1415	0.0	
20	759MS	759MSC	09/13/89	1439	0.1	
21	759MSD	759MSDC	09/13/89	1503	0.0	
22	759DL	759D	09/13/89	1527		*
23	759	759E	09/13/89	1551		*
24	INDA	BNDA2	09/13/89	1615	0.0	
25	INDB	BNDB2	09/13/89	1639	0.1	

* Values outside of QC limits (2.0% for packed columns, 0.3% for capillary columns)

9
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: ACUREX Contract: _____

Lab Code: ACUREX Case No.: 08117 SAS No.: _____ SDG No.: 759

Instrument ID: 3400-1A GC Column ID: DB608

DATE(S) OF ANALYSIS FROM: <u>09/12/89</u>	DATE OF ANALYSIS <u>09/13/89</u>
TO: <u>09/12/89</u>	TIME OF ANALYSIS <u>1615</u>
TIME(S) OF ANALYSIS FROM: <u>1856</u>	EPA SAMPLE NO. _____
TO: <u>2326</u>	(STANDARD) <u>INDA</u>

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	5.52	5.46	5.58	3810000				
beta-BHC	6.45	6.39	6.51	1130000				
delta-BHC	7.24	7.21	7.27	3570000				
gamma-BHC	6.35	6.32	6.38	3770000	6.36	3700000	Y	1.9
Heptachlor	7.04	7.01	7.07	2900000	7.06	2830000	Y	2.4
Aldrin	7.73	7.67	7.79	3150000	7.77	3290000	Y	-4.4
Hept. epoxide	8.91	8.88	8.94	2930000	8.92	2930000	Y	0.0
Endosulfan I	9.67	9.65	9.69	2360000	9.68	2360000	Y	0.0
Dieldrin	10.31	10.30	10.32	2740000	10.32	2760000	Y	-0.7
4,4'-DDE	10.05	9.99	10.11	2370000				
Endrin	11.18	11.12	11.24	2210000				
Endosulfan II	11.66	11.63	11.69	2270000	11.68	2260000	Y	0.4
4,4'-DDD	11.36	11.30	11.42	1840000				
Endo. sulfate	13.01	12.92	13.10	2080000				
4,4'-DDT	12.25	12.22	12.28	2170000	12.27	2190000	Y	-0.9
Methoxychlor	15.67	15.61	15.73	997000	15.69	1010000	Y	-1.3
Endrin ketone	16.29	16.17	16.41	2310000				
a. Chlordane	9.56	9.50	9.62	2480000				
g. Chlordane	9.23	9.17	9.29	2660000				
Toxaphene	14.76	14.76	14.76	93300				
Aroclor-1016	7.05	7.05	7.05	68300				
Aroclor-1221	5.44	5.44	5.44	19900				
Aroclor-1232	6.30	6.30	6.30	12300				
Aroclor-1242	7.68	7.68	7.68	23100				
Aroclor-1248	9.64	9.64	9.64	46800				
Aroclor-1254	10.70	10.70	10.70	105000				
Aroclor-1260	11.02	11.02	11.02	191000				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
%D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRDL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: ACUREX Contract: _____Lab Code: ACUREX Case No.: 08117 SAS No.: _____ SDG No.: 759Instrument ID: 3400-1A GC Column ID: DB608

DATE(S) OF ANALYSIS	FROM: <u>09/12/89</u>	TO: <u>09/12/89</u>	DATE OF ANALYSIS	<u>09/13/89</u>
TIME(S) OF ANALYSIS	FROM: <u>1856</u>	TO: <u>2326</u>	TIME OF ANALYSIS	<u>1639</u>
			EPA SAMPLE NO.	
			(STANDARD)	<u>INDB</u>

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	5.52	5.46	5.58	3810000	5.54	3930000	Y	-3.2
beta-BHC	6.45	6.39	6.51	1130000	6.48	1390000	N	-23.0
delta-BHC	7.24	7.21	7.27	3570000	7.26	3650000	Y	-2.2
gamma-BHC	6.35	6.32	6.38	3770000				
Heptachlor	7.04	7.01	7.07	2900000				
Aldrin	7.73	7.67	7.79	3150000	7.76	2990000	Y	5.1
Hept. epoxide	8.91	8.88	8.94	2930000				
Endosulfan I	9.67	9.65	9.69	2360000				
Dieldrin	10.31	10.30	10.32	2740000				
4,4'-DDE	10.05	9.99	10.11	2370000	10.07	2430000	Y	-2.5
Endrin	11.18	11.12	11.24	2210000	11.20	2240000	Y	-1.4
Endosulfan II	11.66	11.63	11.69	2270000				
Endo. sulfate	11.36	11.30	11.42	1840000	11.39	1890000	Y	-2.7
4,4'-DDT	13.01	12.92	13.10	2080000	13.05	2130000	Y	-2.4
Methoxychlor	12.25	12.22	12.28	2170000				
Endrin ketone	15.67	15.61	15.73	997000				
a. Chlordane	16.29	16.17	16.41	2310000	16.33	2770000	N	-19.9
g. Chlordane	9.56	9.50	9.62	2480000	9.58	2530000	Y	-2.0
Toxaphene	9.23	9.17	9.29	2660000	9.26	2690000	Y	-1.1
Aroclor-1016	14.76	14.76	14.76	93300				
Aroclor-1221	7.05	7.05	7.05	68300				
Aroclor-1232	5.44	5.44	5.44	19900				
Aroclor-1242	6.30	6.30	6.30	12300				
Aroclor-1248	7.68	7.68	7.68	23100				
Aroclor-1254	9.64	9.64	9.64	46800				
Aroclor-1260	10.70	10.70	10.70	105000				
	11.02	11.02	11.02	191000				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
 %D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRDL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D.
 Identification of such analytes is based primarily on pattern recognition.

9
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: ACUREX Contract: _____
 Lab Code: ACUREX Case No.: 08117 SAS No.: _____ SDG No.: 759
 Instrument ID: 3400-1B GC Column ID: DB5

DATE(S) OF ANALYSIS FROM: <u>09/12/89</u>	DATE OF ANALYSIS <u>09/13/89</u>
TO: <u>09/12/89</u>	TIME OF ANALYSIS <u>1615</u>
TIME(S) OF ANALYSIS FROM: <u>1856</u>	EPA SAMPLE NO. _____
TO: <u>2326</u>	(STANDARD) <u>INDA</u>

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	6.19	6.13	6.25	2650000				
beta-BHC	6.65	6.59	6.71	796000				
delta-BHC	7.24	7.18	7.30	2310000				
gamma-BHC	6.84	6.78	6.90	2550000	6.86	2400000	Y	5.9
Heptachlor	8.36	8.33	8.39	2380000	8.37	2250000	Y	5.5
Aldrin	9.11	9.05	9.17	2160000	9.12	2220000	Y	-2.8
Hept. epoxide	9.89	9.86	9.92	2110000	9.90	2070000	Y	1.9
Endosulfan I	10.71	10.68	10.74	1750000	10.72	1710000	Y	2.3
Dieldrin	11.32	11.29	11.35	2080000	11.34	2070000	Y	0.5
4,4'-DDE	11.04	10.98	11.10	1770000				
Endrin	11.90	11.84	11.96	1780000				
Endosulfan II	12.14	12.11	12.17	1820000	12.16	1870000	Y	-2.7
-DDD	12.14	12.05	12.23	1460000				
Endo. sulfate	13.41	13.29	13.53	698000				
4,4'-DDT	13.38	13.35	13.41	1630000	13.39	1590000	Y	2.5
Methoxychlor	15.49	15.47	15.51	780000	15.50	762000	Y	2.3
Endrin ketone	15.27	15.15	15.39	1740000				
a. Chlordane	10.71	10.65	10.77	1860000				
g. Chlordane	10.37	10.31	10.43	1950000				
Toxaphene	13.89	13.89	13.89	35600				
Aroclor-1016	7.94	7.94	7.94	51500				
Aroclor-1221	6.15	6.15	6.15	16700				
Aroclor-1232	8.15	8.15	8.15	9020				
Aroclor-1242	9.07	9.07	9.07	15200				
Aroclor-1248	10.33	10.33	10.33	31800				
Aroclor-1254	13.57	13.57	13.57	78000				
Aroclor-1260	16.33	16.33	16.33	244000				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
 %D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRDL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

9
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: ACUREX Contract: _____
 Lab Code: ACUREX Case No.: 08117 SAS No.: _____ SDG No.: 759
 Instrument ID: 3400-1B GC Column ID: DB5

DATE(S) OF ANALYSIS FROM: <u>09/12/89</u> TO: <u>09/12/89</u>	DATE OF ANALYSIS <u>09/13/89</u>
TIME(S) OF ANALYSIS FROM: <u>1856</u> TO: <u>2326</u>	TIME OF ANALYSIS <u>1639</u>
	EPA SAMPLE NO. _____
	(STANDARD) <u>INDB</u>

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	6.19	6.13	6.25	2650000	6.20	2920000	Y	-10.2
beta-BHC	6.65	6.59	6.71	796000	6.67	804000	Y	-1.0
delta-BHC	7.24	7.18	7.30	2310000	7.26	2240000	Y	3.0
gamma-BHC	6.84	6.78	6.90	2550000				
Heptachlor	8.36	8.33	8.39	2380000				
Aldrin	9.11	9.05	9.17	2160000	9.11	2000000	Y	7.4
Hept. epoxide	9.89	9.86	9.92	2110000				
Endosulfan I	10.71	10.68	10.74	1750000				
Dieldrin	11.32	11.29	11.35	2080000				
4,4'-DDE	11.04	10.98	11.10	1770000	11.06	1740000	Y	1.7
Endrin	11.90	11.84	11.96	1780000	11.93	1740000	Y	2.2
Endosulfan II	12.14	12.11	12.17	1820000				
-DDD	12.14	12.05	12.23	1460000	12.17	1440000	Y	1.4
Endo. sulfate	13.41	13.29	13.53	698000	13.44	653000	Y	6.4
4,4'-DDT	13.38	13.35	13.41	1630000				
Methoxychlor	15.49	15.47	15.51	780000				
Endrin ketone	15.27	15.15	15.39	1740000	15.30	1710000	Y	1.7
a. Chlordane	10.71	10.65	10.77	1860000	10.73	1820000	Y	2.2
g. Chlordane	10.37	10.31	10.43	1950000	10.39	1910000	Y	2.1
Toxaphene	13.89	13.89	13.89	35600				
Aroclor-1016	7.94	7.94	7.94	51500				
Aroclor-1221	6.15	6.15	6.15	16700				
Aroclor-1232	8.15	8.15	8.15	9020				
Aroclor-1242	9.07	9.07	9.07	15200				
Aroclor-1248	10.33	10.33	10.33	31800				
Aroclor-1254	13.57	13.57	13.57	78000				
Aroclor-1260	16.33	16.33	16.33	244000				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
 %D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRDL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

10
PESTICIDE/PCB IDENTIFICATION

EPA SAMPLE NO.

759DL

Lab Name: ACUREX Contract: _____
Lab Code: ACUREX Case No.: 08117 SAS No.: _____ SDG No.: 759
GC Column ID (1): DB608 GC Column ID (2): DB5
Instrument ID (1): 3400-1A Instrument ID (2): 3400-1B
Lab Sample ID: 759D
Lab File ID: _____ (only if confirmed by GCMS)

PESTICIDE/PCB	RETENTION TIME	RT WINDOW OF STANDARD FROM TO	QUANT? (Y/N)	GC/MS? (Y/N)
01 4,4'-DDD	Column 1 11.40	11.30 11.42	Y	N
02	Column 2 12.18	12.05 12.23	N	N

Comments:

10
PESTICIDE/PCB IDENTIFICATION

EPA SAMPLE NO.

759

Lab Name: ACUREX Contract: _____
Lab Code: ACUREX Case No.: 08117 SAS No.: _____ SDG No.: 759
GC Column ID (1): DB608 GC Column ID (2): DB5
Instrument ID (1): 3400-1A Instrument ID (2): 3400-1B
Lab Sample ID: 759E
Lab File ID: _____ (only if confirmed by GCMS)

PESTICIDE/PCB	RETENTION TIME	RT WINDOW		QUANT? (Y/N)	GC/MS? (Y/N)
		OF STANDARD FROM	TO		
01 4,4'-DDE	Column 1 10.08	9.99	10.11	Y	N
02	Column 2 11.32	10.98	11.10	N	N
03 4,4'-DDD	Column 1 11.40	11.30	11.42	Y	N
04	Column 2 12.19	12.05	12.23	N	N
05 4,4'-DDT	Column 1 12.27	12.22	12.28	Y	N
06	Column 2 13.38	13.35	13.41	N	N

Comments:

10
PESTICIDE/PCB IDENTIFICATION

EPA SAMPLE NO.

760

Lab Name: ACUREX Contract: _____
Lab Code: ACUREX Case No.: 08117 SAS No.: _____ SDG No.: 759
GC Column ID (1): DB608 GC Column ID (2): DB5
Instrument ID (1): 3400-1A Instrument ID (2): 3400-1B
Lab Sample ID: 760C
Lab File ID: _____ (only if confirmed by GCMS)

PESTICIDE/PCB	RETENTION TIME	RT WINDOW OF STANDARD		QUANT? (Y/N)	GC/MS? (Y/N)
		FROM	TO		
01 4,4'-DDD	Column 1 11.38	11.30	11.42	Y	N
02	Column 2 12.17	12.05	12.23	N	N
03 4,4'-DDT	Column 1 12.25	12.22	12.28	Y	N
04	Column 2 13.36	13.35	13.41	N	N

Comments:

10
PESTICIDE/PCB IDENTIFICATION

EPA SAMPLE NO.

761

Lab Name: ACUREX Contract: _____
 Lab Code: ACUREX Case No.: 08117 SAS No.: _____ SDG No.: 759
 GC Column ID (1): DB608 GC Column ID (2): DB5
 Instrument ID (1): 3400-1A Instrument ID (2): 3400-1B
 Lab Sample ID: 761C
 Lab File ID: _____ (only if confirmed by GCMS)

PESTICIDE/PCB	RETENTION TIME	RT WINDOW OF STANDARD		QUANT? (Y/N)	GC/MS? (Y/N)
		FROM	TO		
01 beta-BHC	Column 1 6.40	6.39	6.51	Y	N
02	Column 2 6.64	6.59	6.71	N	N
03 4,4'-DDD	Column 1 11.38	11.30	11.42	Y	N
	Column 2 12.31	12.05	12.23	N	N
05 4,4'-DDT	Column 1 12.24	12.22	12.28	Y	N
06	Column 2 13.35	13.35	13.41	N	N

Comments:

10
PESTICIDE/PCB IDENTIFICATION

EPA SAMPLE NO.

PBLK1

I Name: ACUREX Contract: _____

Lab Code: ACUREX Case No.: 08117 SAS No.: _____ SDG No.: 759

GC Column ID (1): DB608 GC Column ID (2): DB5

Instrument ID (1): 3400-1A Instrument ID (2): 3400-1B

Lab Sample ID: 759BLK1C

Lab File ID: _____ (only if confirmed by GCMS)

PESTICIDE/PCB	RETENTION TIME	RT WINDOW OF STANDARD		QUANT? (Y/N)	GC/MS? (Y/N)
		FROM	TO		
01 gamma-BHC	Column 1 6.36	6.32	6.38	Y	N
02	Column 2 6.86	6.78	6.90	N	N
03 Heptachlor	Column 1 7.06	7.01	7.07	Y	N
04	Column 2 8.38	8.33	8.39	N	N
05 Aldrin	Column 1 7.77	7.67	7.79	Y	N
06	Column 2 9.12	9.05	9.17	N	N
07 Dieldrin	Column 1 10.32	10.30	10.32	Y	N
08	Column 2 11.34	11.29	11.35	N	N
09 Endrin	Column 1 11.20	11.12	11.24	Y	N
10	Column 2 11.95	11.84	11.96	N	N
11 4,4'-DDT	Column 1 12.27	12.22	12.28	Y	N
12	Column 2 12.19	13.35	13.41	N	N

Comments:

MAXIMA 820 CUSTOM REPORT

Printed: 10-SEP-1989 9:42:59

SAMPLE: SEVALA.1

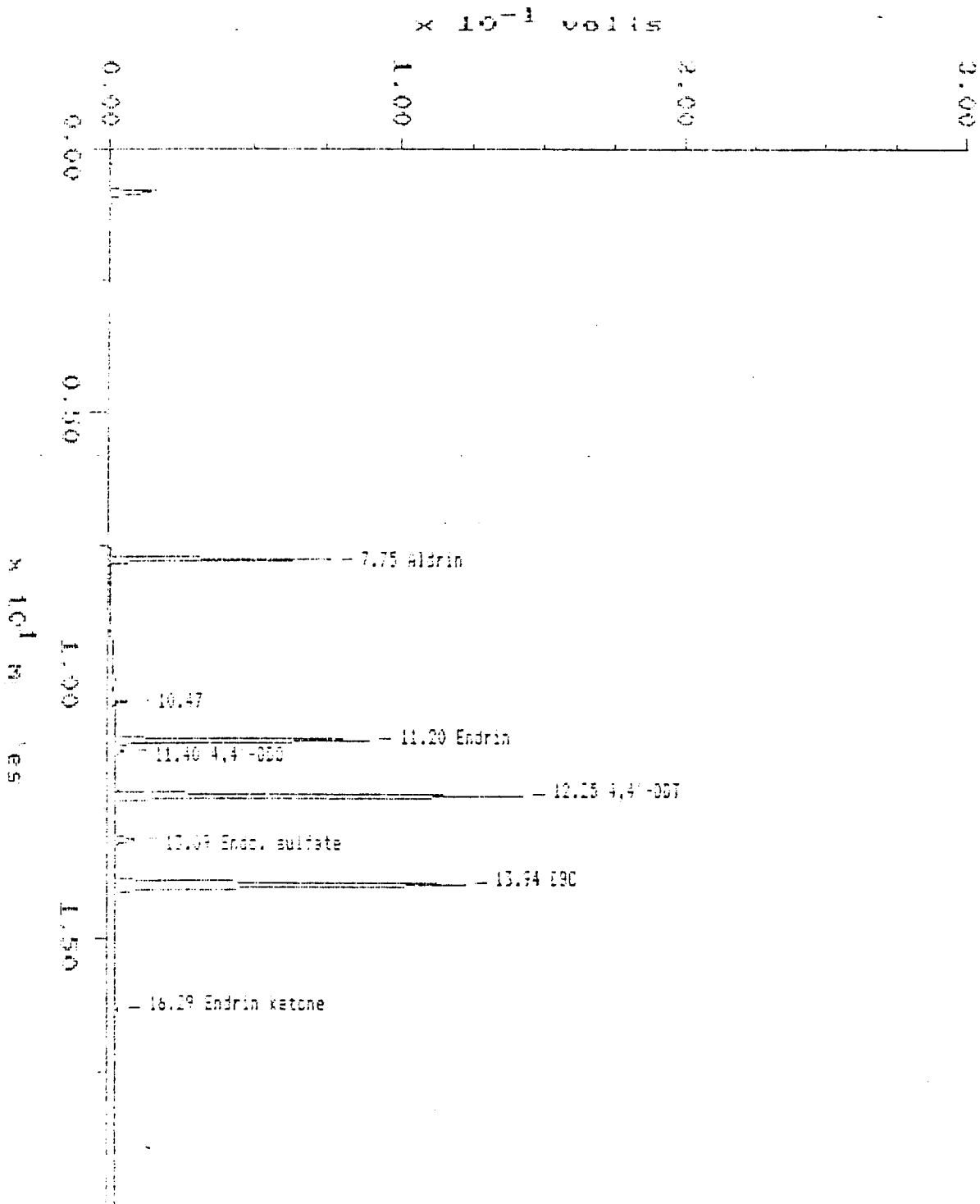
91 in Method: 09/12/89.P.M
 Acquired: 10-SEP-1989 18:56
 Rate: 1.3 points/sec
 Duration: 19.998 minutes
 Operator: GBJ

Type: STD
 Instrument: 3400-1A
 Filename: SEVALA2
 Index: Disk
 Injection Volume: 2.0

DETECTOR: ECD-1A

PK#	Component Name	Retention Time (minutes)	Peak Area	Solution Conc (ng/ul)	Type	Code	Base
1	Aldrin	7.759	122325	0.0200	BB	EXT	AREA
2	Endrin	11.198	179232	0.0400	BB	EXT	AREA
3	4,4'-DDE	12.254	322537	0.0800	BB	EXT	AREA
4	DDE	17.955	383541	0.1600	BB	EXT	AREA
TOTAL			1008035	0.2400			

Sample: EVALS.1 Channel: EOC-1A File name: 8816L82
 Acquired: 12-SEP-89 19:25 Method: C:\MAN\DATA\AN\SEPT\8909129 Operator: CBJ
 Inj Vol: 2.00
 Comments: PRIMARY COLUMN DB-500 MEGABORE 3400-1A ACUREX ERO 8080CLP CASE# 8906117



MAXIMA 820 CUSTOM REPORT

Printed: 12-SEP-1989 9:43:33

SAMPLE: EVALB.I

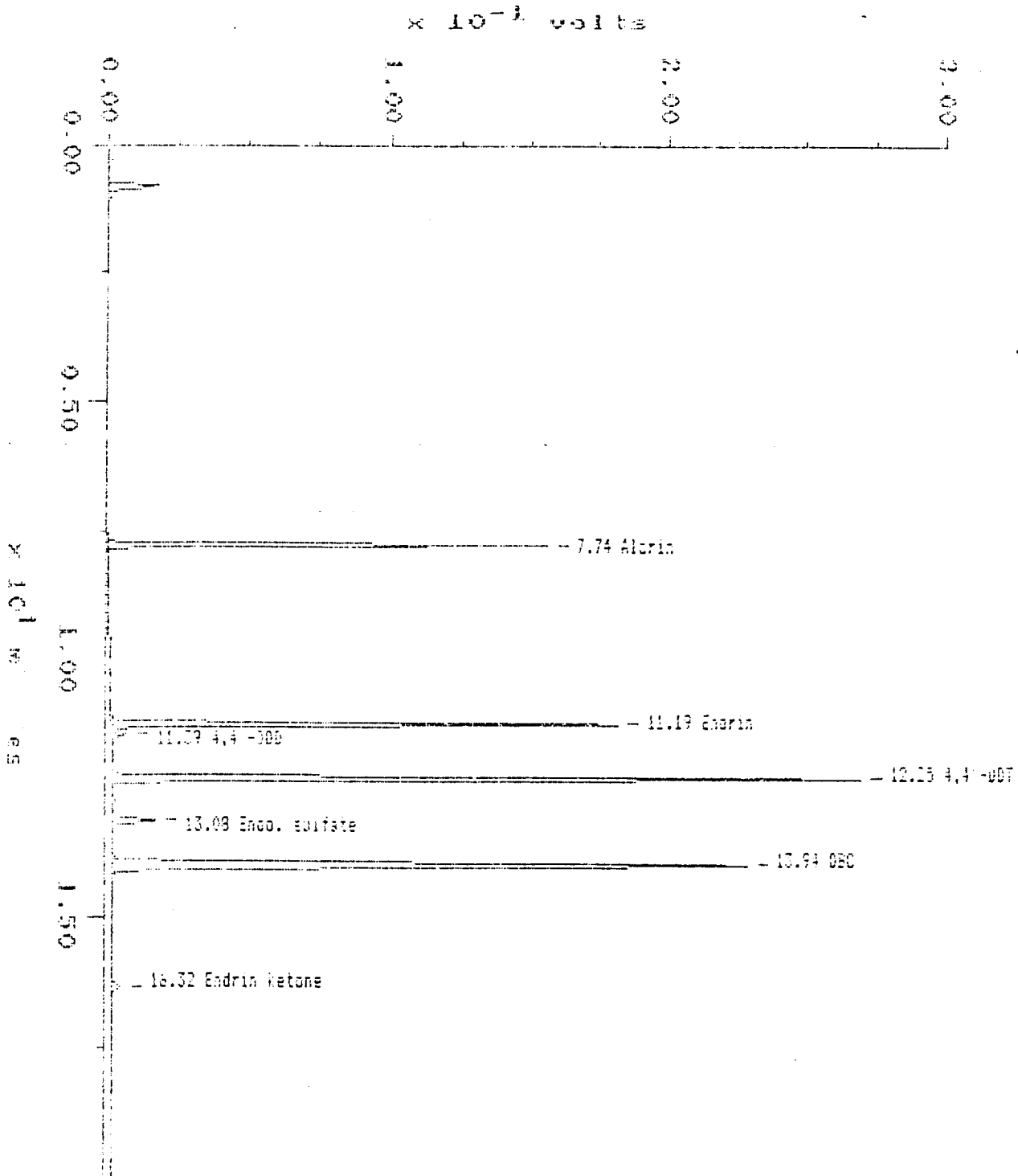
#1 in Method: 09.12/89.P.M
 Acquired: 12-SEP-1989 19:25
 Rate: 1.3 counts/sec
 Duration: 19.968 minutes
 Operator: CBJ

Type: STD
 Instrument: 3400-1A
 Filename: SEVALB2
 Index: Disk
 Injection Volume: 1.0

DETECTOR: ECD-1A

PK#	Component Name	Retention Time (minutes)	Peak Area	Solution Conc (ng/ul)	Type	Code	Base
1	Aldrin	7.751	256303	0.0400	BB	EXT	AREA
2		10.472	13965		BB		
3	Endrin	11.198	762866	0.0800	BF	EXT	AREA
4	4,4'-DDD	11.396	10851	Invalid	FB	EXT	AREA
5	4,4' DDI	12.254	656177	0.1600	GB	EXT	AREA
6	Endo. sulfate	13.360	40716	Invalid	GB	EXT	AREA
7	DD	13.741	772573	0.2100	BB	EXT	AREA
8	Endrin ketone	16.295	16324	Invalid	BB	EXT	AREA
			2124255	0.4800			

Sample: BEVALC1 Channel: EID-1A File: BEVALC1
Acquired: 12-SEP-89 19:50 Method: C:\MAXDATA\ANALSEP\18909129 Operator: DSG
Inj Vol: 1.00
Comments: PRIMARY COLUMN DB-508 MEGAPORE 3400-1A HOREX ERD 3030CLP CASE# 8902117



MAXIMA 820 CUSTOM REPORT

Printed: 13-SEP-1989 9:44:08

SAMPLE: EVALC.1

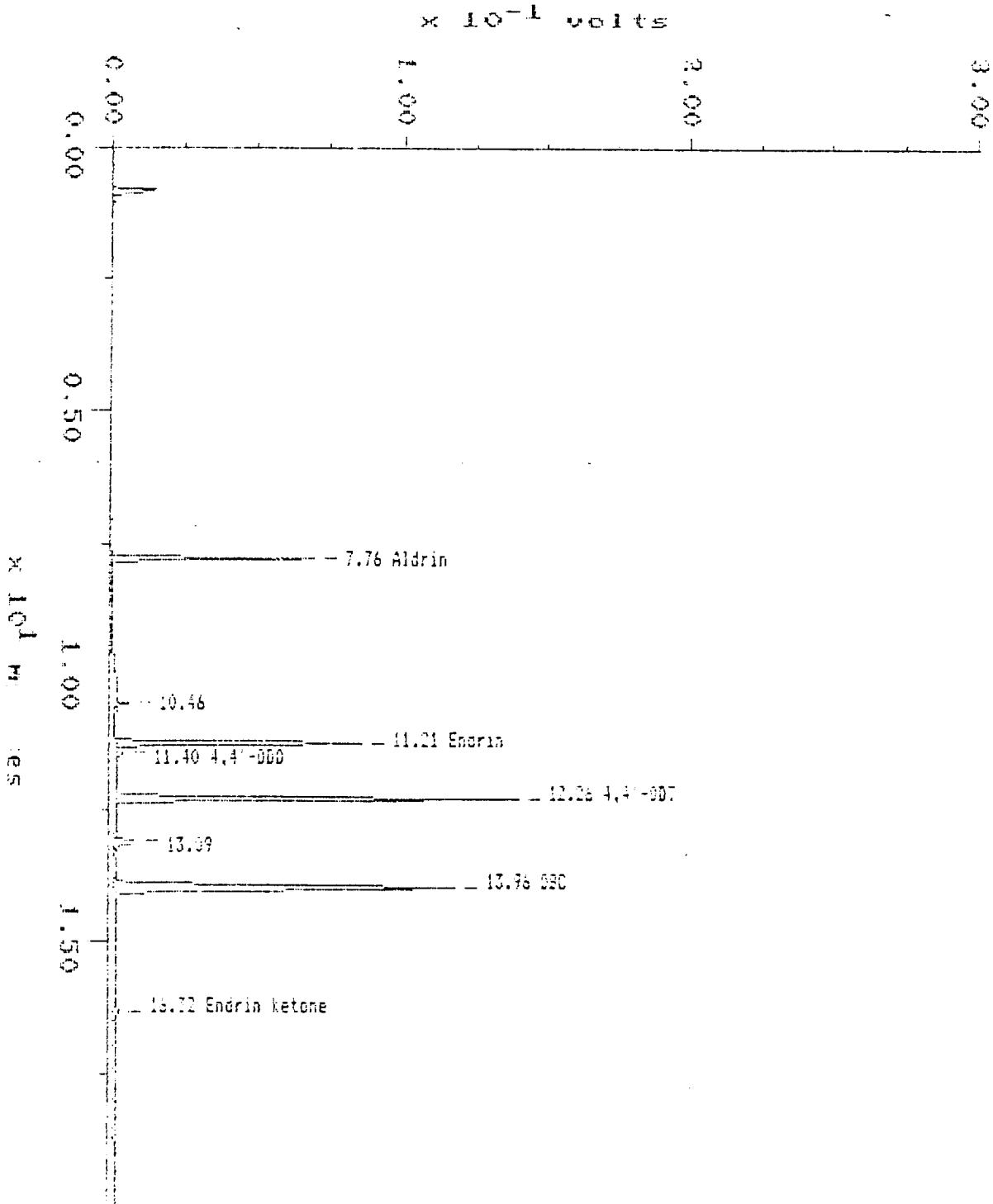
#3 in Method: 09/12/89.P.M
Acquired: 12-SEP-1989 19:50
Rate: 2.3 points/sec
Duration: 19.998 minutes
Operator: CGJ

Type: STD0
Instrument: 3400-1A
Filename: SEVALC01
Index: 0181
Injection Volume: 2.0

DETECTOR: ECD-1A

PK#	Component Name	Retention Time (minutes)	Peak Area	Solution Conc (ng/ul)	Type	Code	Base
1	Aldrin	7.744	554185	0.0800	BS	EXT	AREA
2	Endrin	11.191	749080	0.1600	BP	EXT	AREA
3	4,4'-DDB	11.389	18355	Invalid	PB	EXT	AREA
4	4,4'-DDT	12.247	1307625	0.3200	BS	EXT	AREA
5	Endo. sulfate	13.083	86812	Invalid	FB	EXT	AREA
6	DDC	13.941	1651706	0.4000	SB	EXT	AREA
7	Endrin ketone	16.317	18156	Invalid	SB	EXT	AREA
			4297629	0.9600			

Sample: SEVAL3.0 Channel: ECD-1A Filename: SEVAL3.0
Acquired: 10-SEP-89 13:51 Method: C:\MAX\DATA\1\BEP7\8909129 Operator: CSJ
Inj Vol: 2.00
Comments: PRIMARY COLUMN DB-608 MEGA90RE 3400-1A ACUREX ERD 8060CLP CASE# 8908117



MAXIMA 820 CUSTOM REPORT

Printed: 13-SEP-1989 16:14:15

SAMPLE: SEVAL9.D

#18 in Method: 09/12/87,P,N
 Acquired: 13-SEP-1989 13:51
 Rate: 2.3 points/sec
 Duration: 19.998 minutes
 Operator: CSJ

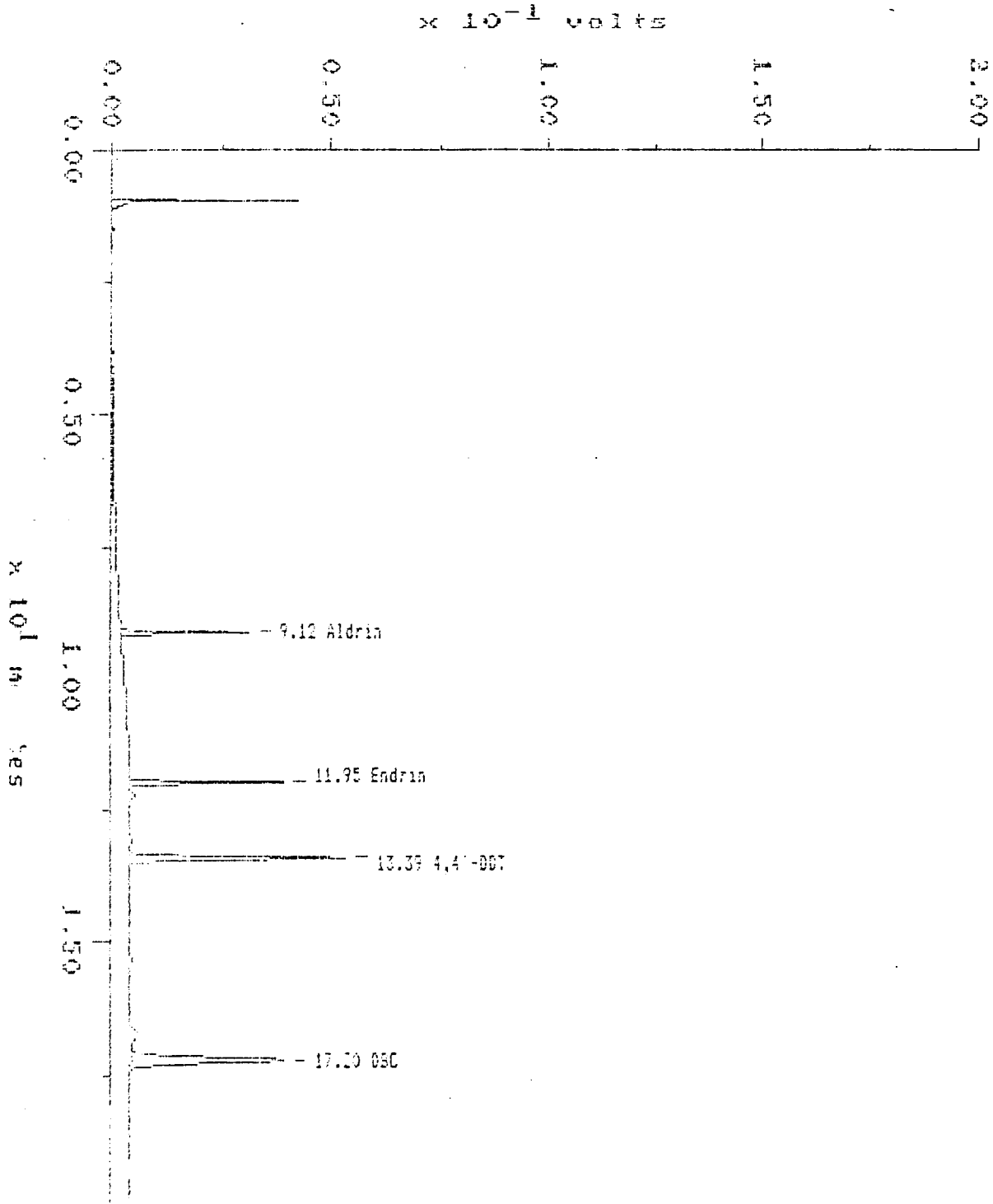
Type: URKN
 Instrument: 3400-1A
 Filename: SEVAL82
 Index: Disk
 Injection Volume: 2.0

DETECTOR: ECD-1A

PK#	Component Name	Retention Time (minutes)	Peak Area	Solution Conc (ng/ul)	Type	Code	Base
1	Aldrin	7.759	244151	0.038611	BB	EXT	AREA
2		10.465	12992		BB		
3	Endrin	11.205	345625	0.078111	BB	EXT	AREA
4	4,4'-DDT	11.356	9937	0.0027	BB	EXT	AREA
5	4,4'-DDT	12.261	334803	0.146111	BB	EXT	AREA
6		13.090	40953		BB		
7	DDE	13.955	750146	0.195411	BB	EXT	AREA
8	Endrin ketone	15.324	10645	0.0023	BB	EXT	AREA
			2049241	0.463211			

!! Result calculation based on peak response more than 10% outside of calibration range.

Sample: EVALA.1 Channel: EDD-18 Filename: EVALA1
Acquired: 12-SEP-89 18:56 Method: C:\MAX\DATA\IB\SEPT\8909125 Operator: GJ
Inj Vol: 2.00
Comments: CONFIRMATION DB-5 MESA60RE 3400-19 ACUREX ERO 3000CLP CASE #8908117



MAXIMA 820 CUSTOM REPORT

Printed: 13-SEP-1989 10:39:40

SAMPLE: EVALA,1

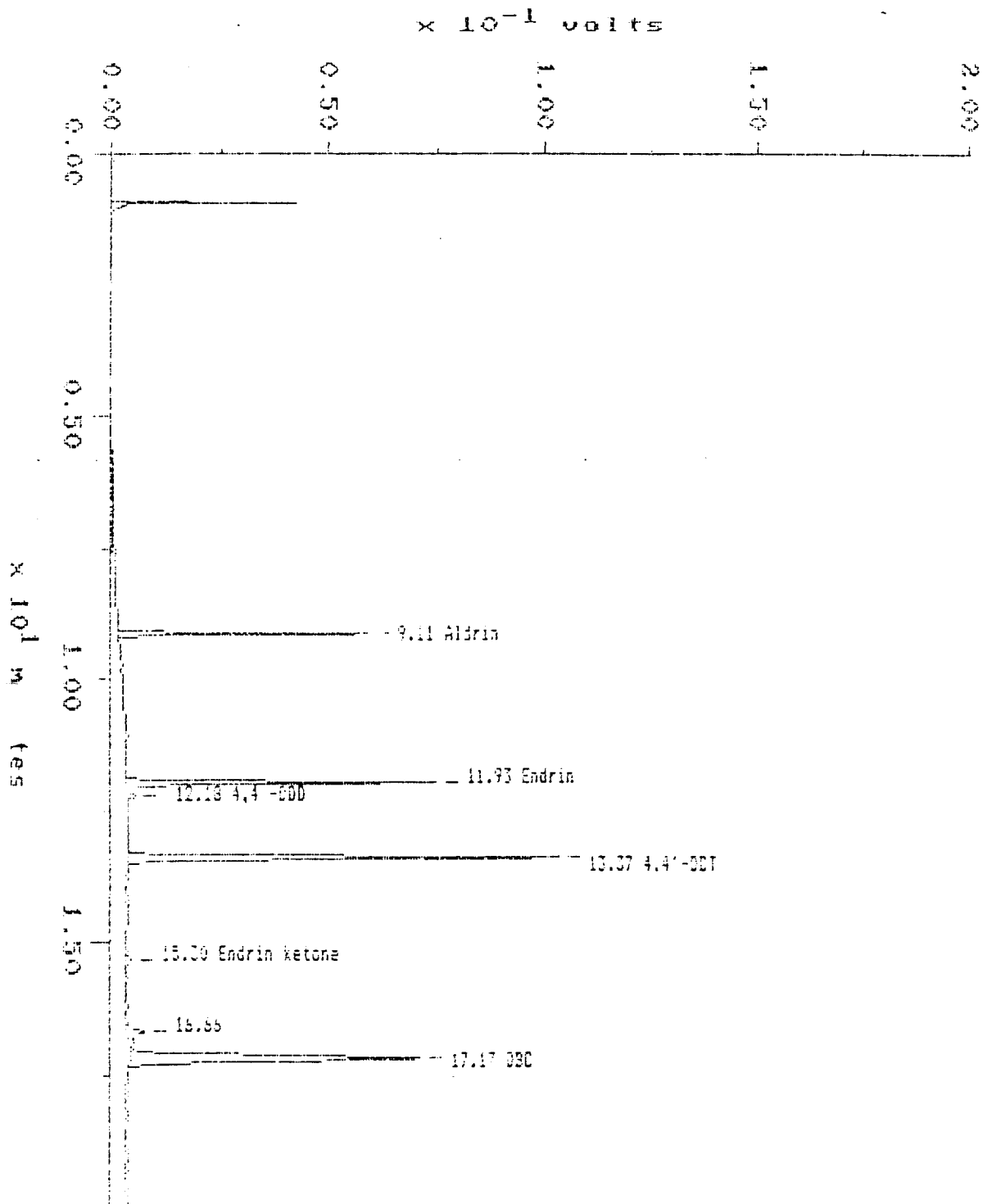
#1 in Method: 09/12/89,C.W
 Acquired: 12-SEP-1989 13:58
 Rate: 2.3 points/sec
 Duration: 19.998 minutes
 Operator: CGS

Type: STD
 Instrument: 3400-1B
 Filename: EVALA2
 Index: Disk
 Injection Volume: 2.0

DETECTOR: ECD-1B

PK#	Component Name	Retention Time (minutes)	Peak Area	Solution Conc (ng/ul)	Type	Code	Base
1	Aldrin	9.123	85244	0.0200	SS	EXT	AREA
2	Endrin	11.946	143257	0.0400	SS	EXT	AREA
3	4,4'-DDE	13.391	244010	0.0800	SS	EXT	AREA
4	DDE	17.197	275374	0.1000	SS	EXT	AREA
TOTAL			747895	0.2400			

Sample: EVALS.1 Channel: EOC-13 File: 37AL32
 Acquired: 12-SEP-89 19:25 Method: C:\MAX\DATA\BASEPT\8909128 Operator: CSJ
 Inj Vol: 2.00
 Comments: CONFIRMATION DE-5 MEGABORE 3400-1B ACUREX ERD 6960CLP CASE #8903117



MAXIMA 820 CUSTOM REPORT

Printed: 12-SEP-1989 9:46:39

SAMPLE: 9VAL2,1

#2 in Method: 09/12/89.C.M
 Acquired: 12-SEP-1989 19:25
 Rate: 2.3 points/sec
 Duration: 19.998 minutes
 Operator: CGJ

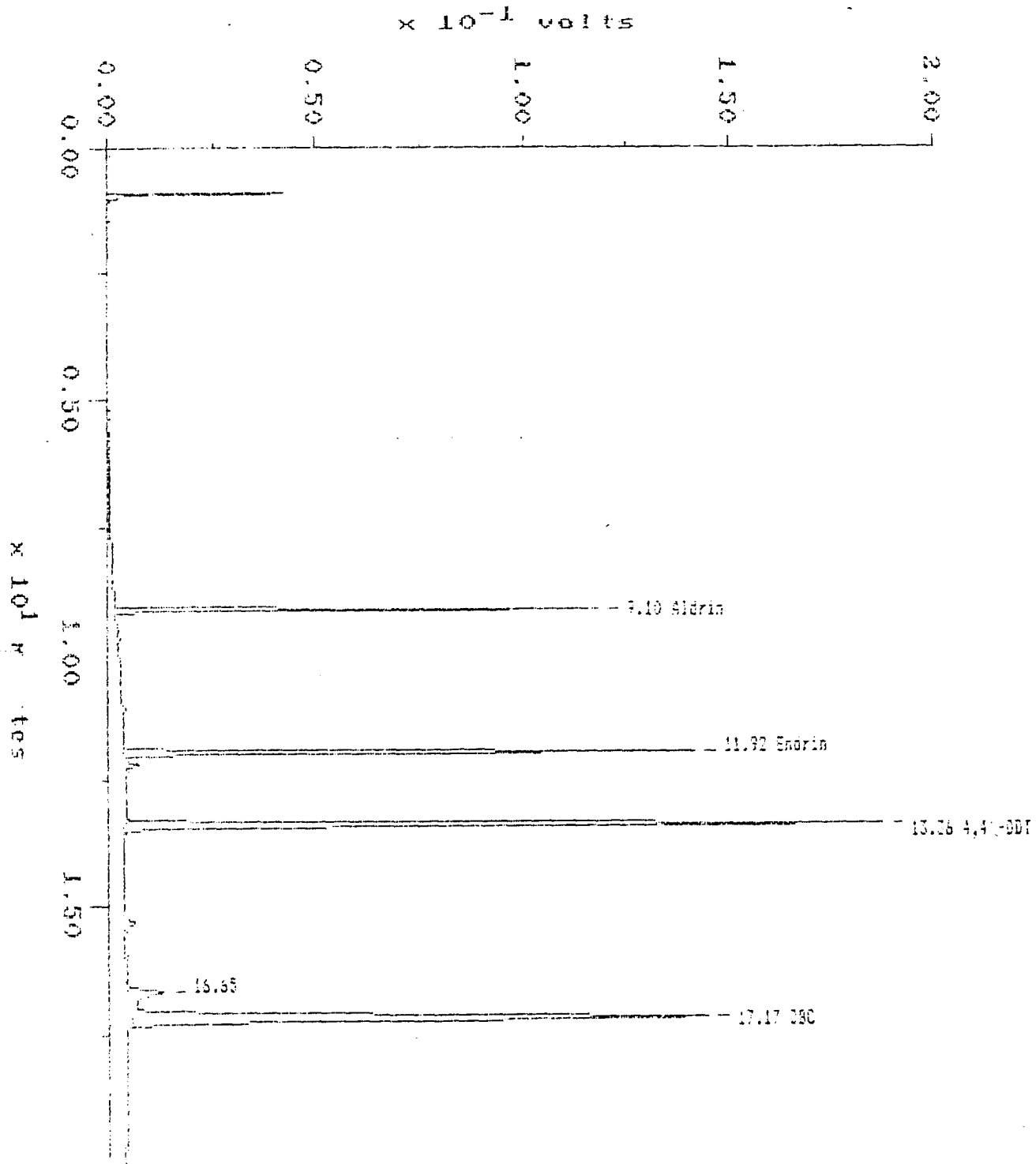
Type: STD
 Instrument: 3400-18
 Filename: 9VAL2
 Index: Disk
 Injection Volume: 2.0

DETECTOR: ECD-18

PK#	Component Name	Retention Time (minutes)	Peak Area	Solution Conc (ng/ul)	Type	Code	Base
1	Aldrin	9.108	172565	0.0400	BB	EXT	AREA
2	Endrin	11.931	287913	0.0800	BB	EXT	AREA
3	4,4'-DDD	12.161	5559	Invalid	BB	EXT	AREA
4	4,4'-DD:	12.369	494015	0.1600	BB	EXT	AREA
5	Endrin ketone	15.305	5521	Invalid	JB	EXT	AREA
6		16.661	31770		BF		
7	DDE	17.175	537212	0.2000	FB	EXT	AREA
			1536675	0.4800			

T

Sample: EYALC1 Channel: EDS-13 File name: EYALC1
Acquired: 12-SEP-89 19:49 Method: C:\MAX\DATA\13\SEPT\89\9123 Operator: CGJ
Inj Vol: 2.00
Comments: CONFIRMATION 03-5 MEGABORE 3400-13 ACUREX ERG 3030CLP CASE #8708117



MAXIMA 820 CUSTOM REPORT

Printed: 12-SEP-1989 9:41:13

SAMPLE: EVALC.1

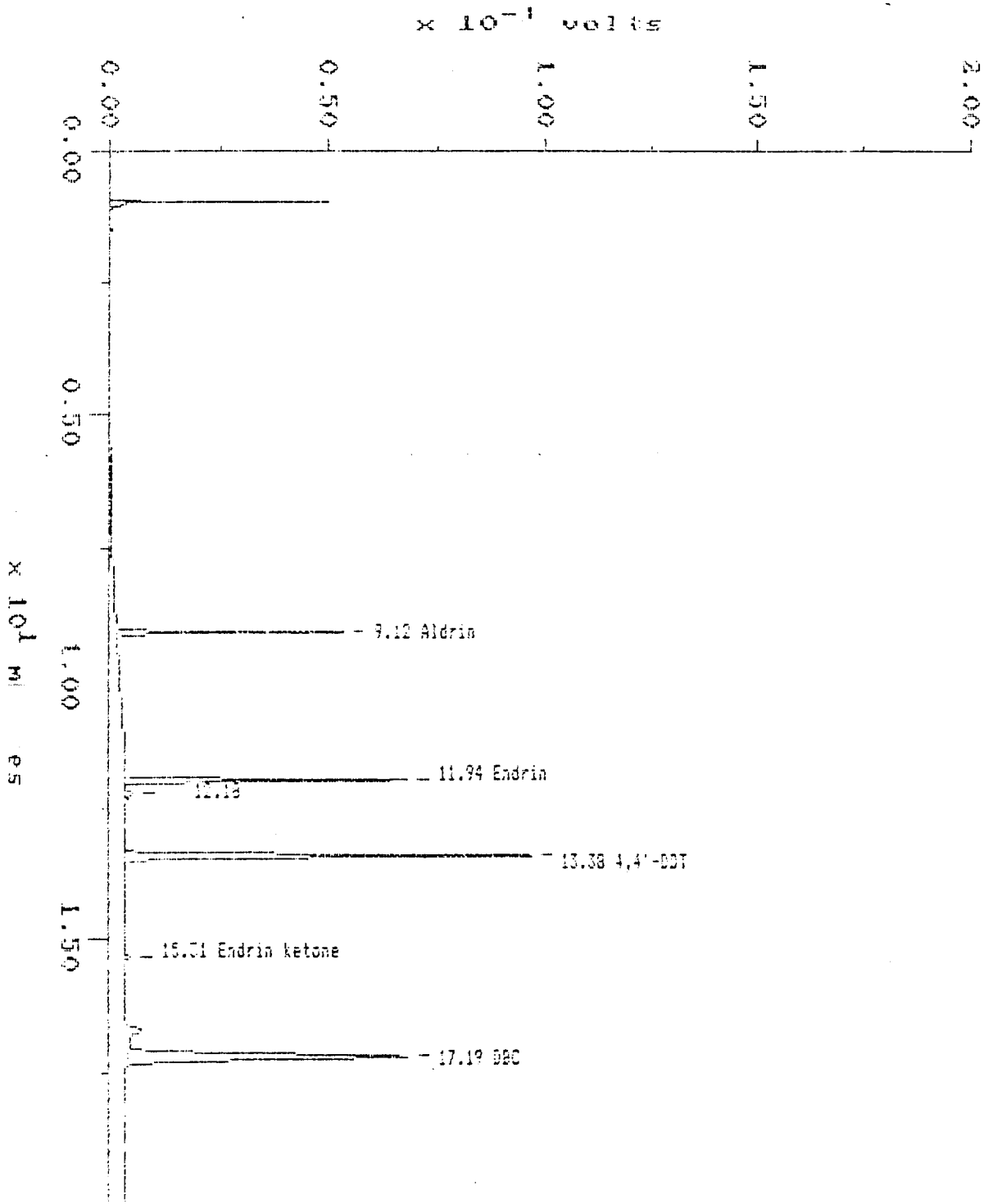
93 in Method: 09/12/89.C.M
 Acquired: 12-SEP-1989 19:49
 Rate: 2.3 points/sec
 Duration: 17.998 minutes
 Operator: DCS

Type: STD
 Instrument: 3400-18
 Filename: SWALCC
 Index: Disk
 Injection Volume: 2.0

DETECTOR: ESD-16

PX#	Component Name	Retention Time (minutes)	Peak Area	Solution Conc (ng/ul)	Type	Code	Base
1	Aldrin	9.101	354644	0.0800	BB	EXT	AREA
2	Endrin	11.924	587378	0.1500	BB	EXT	AREA
3	4,4'-DDE	13.361	975791	0.3200	BB	EXT	AREA
4		16.654	66864		BF		
5	DDT	17.167	1141415	0.4000	BB	EXT	AREA
TOTAL			3125792	0.9500			

Sample: EVALS.0 Channel: ECD-19 Filename: EVALS.0
Acquired: 13-SEP-89 13:51 Method: C:\MSADATA\13\REPT\6909129 Operator: CGJ
Inj Vol: 2.00
Comments: CONFIRMATION DB-5 MEGASORB 3400-12 ACUREX ERD 8090CLP CASE #8908117



MAXIMA 820 CUSTOM REPORT

Printed: 13-SEP-1989 15:50:55

SAMPLE: EVALS.G

#18 in Method: 09/12/89,C.M
 Acquired: 13-SEP-1989 13:51
 Rate: 2.3 points/sec
 Duration: 19.998 minutes
 Operator: CBJ

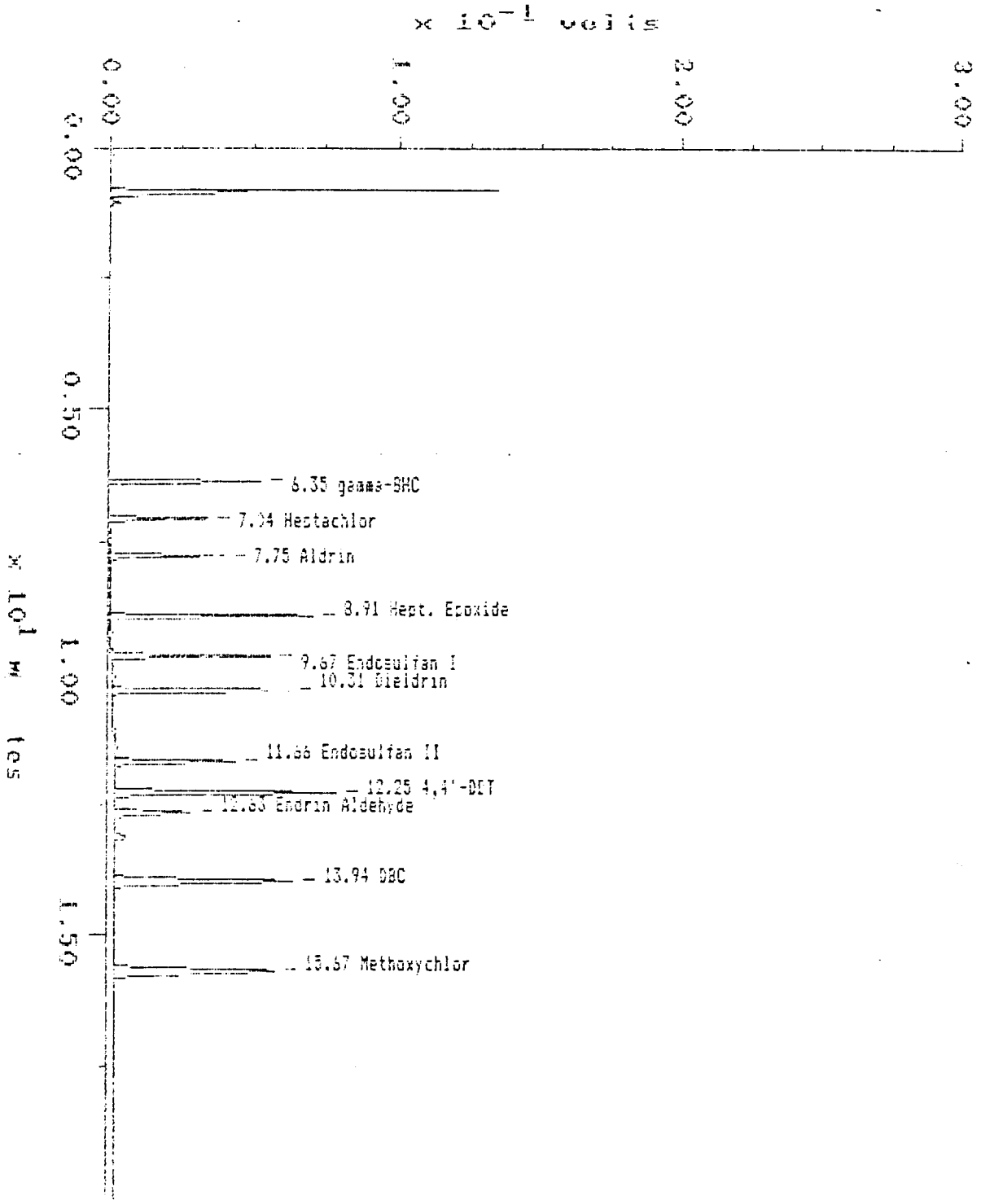
Type: UNKN
 Instrument: 3400-1B
 Filename: EVALS2
 Index: Disk
 Injection Volume: 2.0

DETECTOR: ECB-19

PK#	Component Name	Retention Time (minutes)	Peak Area	Solution Conc (ng/ul)	Type	Code	Base
1	Aldrin	9.115	160136	0.037011	BB	EAT	AREA
2	Endrin	11.939	265477	0.074811	BB	EXT	AREA
3		12.181	6777		BB		
4	4,4'-DDT	13.383	458284	0.140911	BB	EAT	AREA
5	Endrin ketone	15.312	6200	0.0018	BB	EAT	AREA
6	SBC	17.189	511752	0.135811	BB	EAT	AREA
TOT			1408627	0.440211			

!! Result calculation based on peak response more than 10% outside of calibration range.

Sample: INDA.1 Channel: ECD-1A Filename: 81ND02
 Acquired: 12-SEP-89 20:14 Method: D:\MARIACA\DATA\SEPT\890912B Operator: GBJ
 Inj Vol: 2.00
 Comments: PRIMARY COLUMN DB-608 MEGABORE 3400-1A ACUREX ERD 8080CLP CASE# 8709117



MAXIMA 820 CUSTOM REPORT

Printed: 13-SEP-1989 10:04:53

SAMPLE: INCA.I

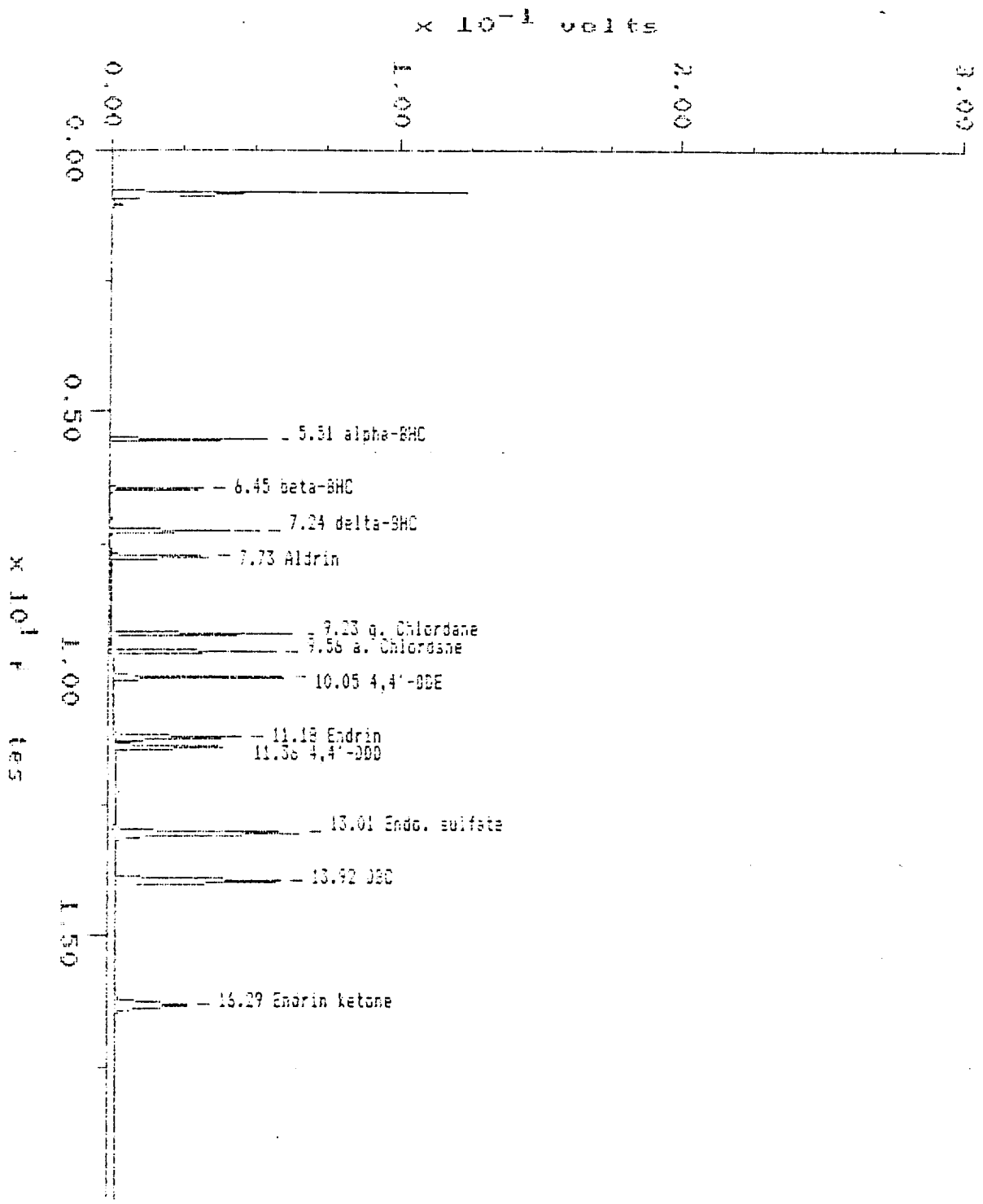
#4 in Method: 09/12/89,P.N
 Acquired: 12-SEP-1989 10:14
 Rate: 2.3 points/sec
 Duration: 19.998 minutes
 Operator: CSJ

Type: STD
 Instrument: 3400-1A
 Filename: SIN0A2
 Index: Disk
 Injection Volume: 2.0

DETECTOR: ECD-1A

PK#	Component Name	Retention Time (minutes)	Peak Area	Solution Conc (ng/ul)	Type	Code	Base
1	gamma-BHC	6.351	150908	0.0200	BB	EXT	AREA
2	Heptachlor	7.040	118121	0.0200	BB	EXT	AREA
3	Aldrin	7.751	134257	0.0200	BB	EXT	AREA
4	Hept. Epoxide	8.910	234010	0.0400	BB	EXT	AREA
5	Endosulfan I	9.365	138746	0.0400	BB	EXT	AREA
6	Dialrin	10.311	219355	0.0400	BB	EXT	AREA
7	Endosulfan II	11.650	131332	0.0400	BB	EXT	AREA
8	4,4'-DDE	12.254	347709	0.0600	BB	EXT	AREA
9	Endrin Alderh.de	12.628	130394	0.0400	BB	EXT	AREA
10	DBC	13.941	402246	0.1000	BB	EXT	AREA
11	Methoxychlor	15.671	398886	0.2000	BB	EXT	AREA
TOTAL			2503965	0.6400			

Sample: INDB.I Channel: ECD-1A File: INDB2
 Acquired: 12-SEP-89 20:38 Method: C:\MSA\DATA\1\1\SEPT\890912B Operator: CGJ
 Inj Vol: 2.00
 Comments: PRIMARY COLUMN DB-508 MEGABORE 3400-1A HCLREX ERD 2089CLP CASE# 8909117



MAXIMA 820 CUSTOM REPORT

Printed: 13-SEP-1989 10:05:28

SAMPLE: IMDB.I

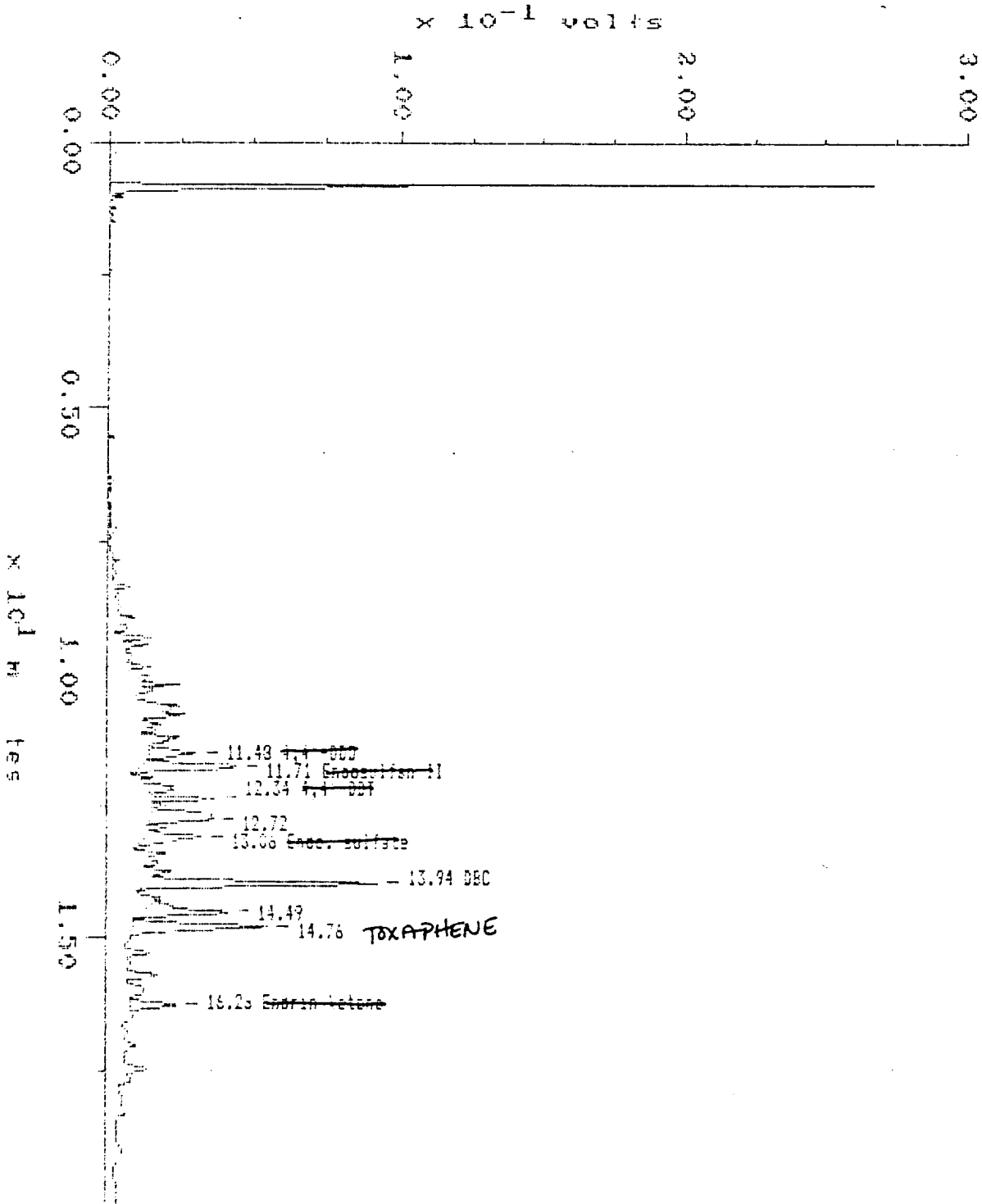
#5 in Method: 09/12/89,P,N
 Acquired: 12-SEP-1989 20:38
 Rate: 2.3 points/sec
 Duration: 19.998 minutes
 Operator: GSI

Type: STD
 Instrument: 3400-1A
 Filename: BIN052
 Index: Disk
 Injection Volume: 2.0

DETECTOR: ECD-1A

PK#	Component Name	Retention Time (minutes)	Peak Area	Solution Conc (ng/ul)	Type	Code	Base
1	alpha-BHC	5.515	152548	0.0200	BB	EXT	AREA
2	beta-BHC	6.453	90344	0.0400	BB	EXT	AREA
3	delta-BHC	7.238	142907	0.0200	BB	EXT	AREA
4	aldrin	7.727	117419	0.0200	BB	EXT	AREA
5	γ-Chlordane	8.225	113840	0.0400	BB	EXT	AREA
6	α-Chlordane	9.563	198628	0.0400	BB	EXT	AREA
7	4,4'-DDE	10.047	139235	0.0400	BB	EXT	AREA
8	Endrin	11.176	177017	0.0400	BB	EXT	AREA
9	4,4'-DDD	11.359	147416	0.0400	BB	EXT	AREA
10	Endo. sulfate	13.009	333583	0.0800	BB	EXT	AREA
11	BHC	13.919	372331	0.1000	BB	EXT	AREA
12	Endrin ketone	16.287	185077	0.0400	BB	EXT	AREA
TOTAL			2319153	0.5200			

Sample: 10XAPH.1 Channel: ECD-1A Filename: BTC01
Acquired: 12-SEP-89 21:02 Method: C:\MAXDATA\1A\SEP1289\912B Operator: CSJ
Inj Vol: 2.00
Comments: PRIMARY COLUMN DB-608 MEGABORE 3400-1A ACUREX EFD 8080CLP CASE# 8903117



MAXIMA 820 CUSTOM REPORT

Printed: 13-SEP-1989 12:09:06

SAMPLE: TOXAPH,1

#6 in Method: 09/12/89,P.N
 Acquired: 12-SEP-1989 21:02
 Rate: 2.3 points/sec
 Duration: 19.999 minutes
 Operator: CGJ

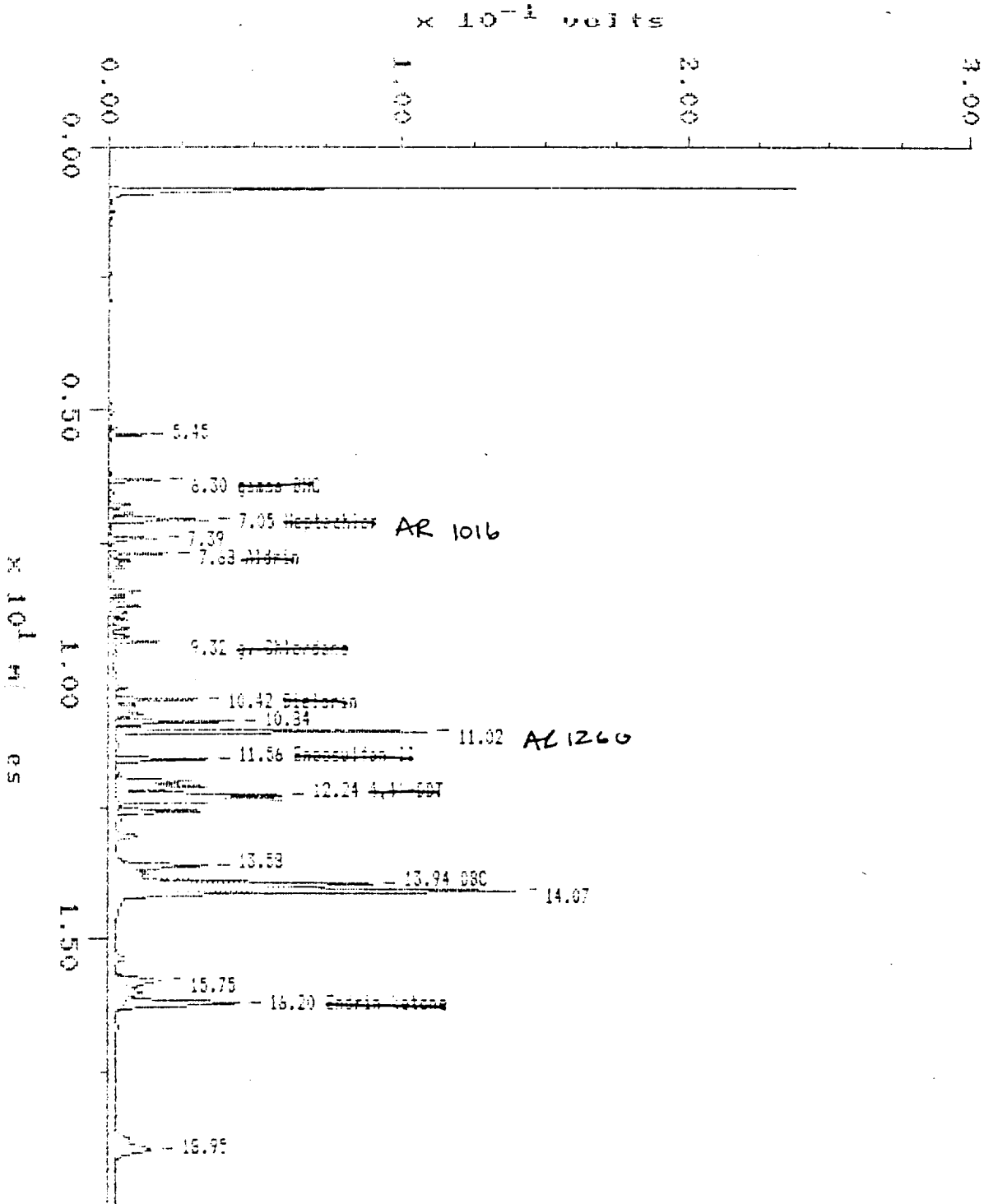
Type: UNKN
 Instrument: 3400-1A
 Filename: 370X1
 Index: Disk
 Injection Volume: 1.0

DETECTOR: ECD-1A

PK#	Component Name	Retention Time (minutes)	Peak Area	Solution Conc (ng/ul)	Type	Code	Base
1	4,4'-DDE	11.477	136615	0.0004	SB	EXT	AREA
2	Endosulfan S	11.711	257874	0.000911	SB	EXT	AREA
3	4,4'-DDT	12.342	96502	0.0003	SB	EXT	AREA
4		12.723	267497		SB		
5	Endo. sulfate	13.061	168420	0.0004	SB	EXT	AREA
6	DDE	13.941	521926	0.125911	SB	EXT	AREA
7	TOXAPHENE	14.491	241468	1.000 <i>CGJ</i>	SB		
8		14.762	373324		SB		
	Endo. sulfate	16.258	109937	0.0007	SB	EXT	AREA
TOTAL			2157465	0.314611			

!! Result calculation based on peak response more than 10% outside of calibration range.

Sample: AR1660.1 Channel: E09-1A Filename: 816601
 Acquired: 12-SEP-89 21:26 Method: DIRECTDATA\ANSEPT\8909128 Operator: GGG
 Inj Vol: 2.00
 Comments: PRIMARY COLUMN DB-608 MEGABORE 3400-1A ACUREX ERO 3080CLP CASE# 3902117



MAXIMA 820 CUSTOM REPORT

Printed: 13-SEP-1989 12:09:52

SAMPLE: AR1550.1

#7 in Method: 09/12/89,P.N
 Acquired: 12-SEP-1989 21:26
 Rate: 2.3 points/sec
 Duration: 19.998 minutes
 Operator: CBJ

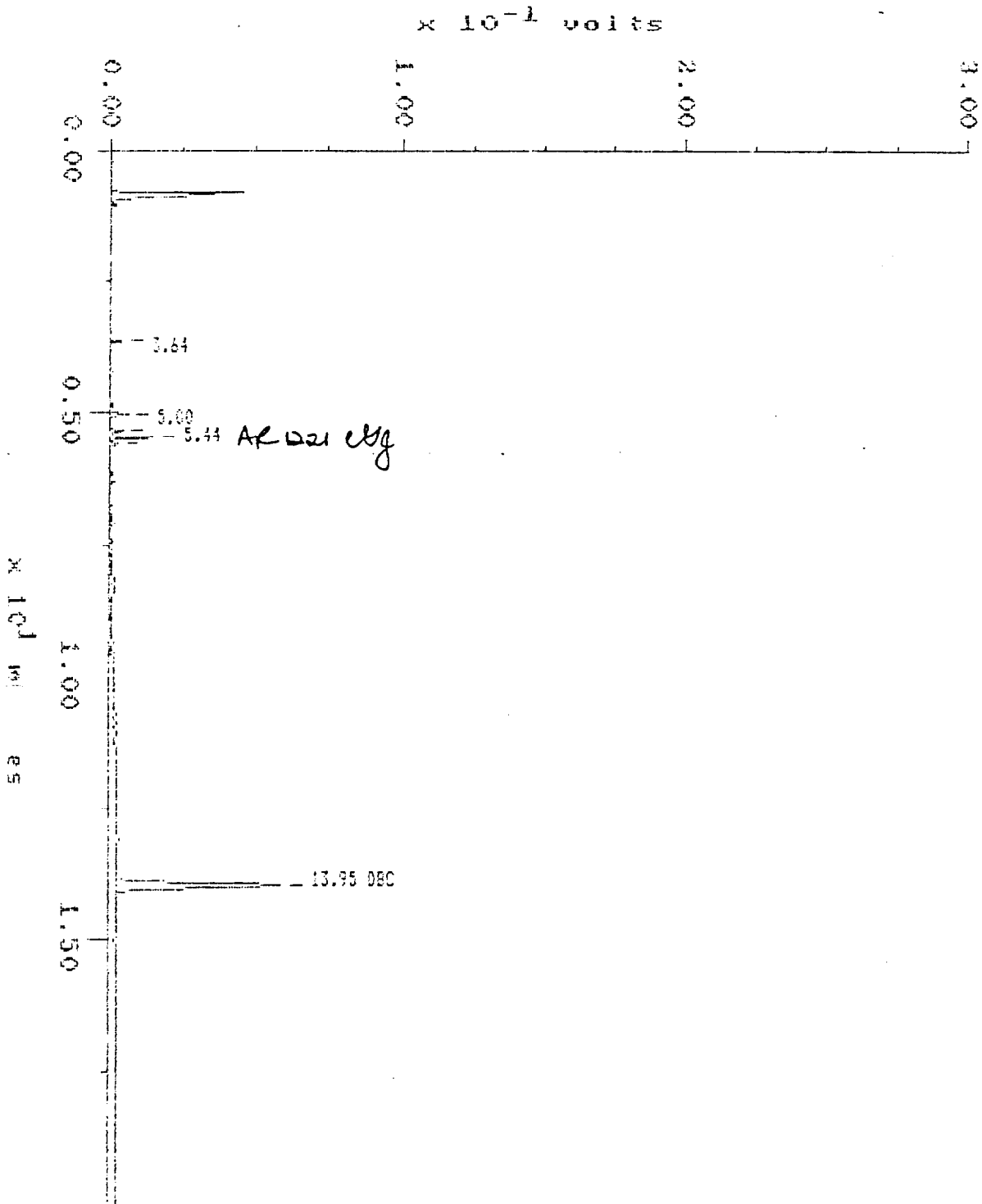
Type: UNKN
 Instrument: 3400-1A
 Filename: 313501
 Index: Disk
 Injection Volume: 1.0

DETECTOR: EDD-1A

PK#	Component Name	Retention Time (minutes)	Peak Area	Solution Conc (ng/ul)	Type	Code	Base
1		5.449	36753		BB		
2	gamma-BHC	6.299	56789	0.0073	BB	EXT	AREA
3	heptachlor AR1014 Cg	7.055	136617	0.0236!!! 1.000 Cg	BB	EXT	AREA
4		7.392	58393		BB		
5	gamma	7.673	65099	0.0103	BB	EXT	AREA
6	g. Chloroform	9.321	200206	0.0400!	BB	EXT	AREA
7	Bifenthrin	10.421	161894	0.0156	BB	EXT	AREA
8		10.839	149437		BP		
9	AR 1260 Cg	11.022	362802	1.000 Cg	BB		
10	Endosulfan S1	11.557	122913	0.0271	BB	EXT	AREA
11	1,1-DDE	12.239	912438	0.2077!	BB	EXT	AREA
12		13.581	130810		BB		
13	DDE	13.941	232412	0.0605	BP	EXT	AREA
14		14.065	442970		BB		
15		15.752	90866		BB		
16	Endrin ketone	16.199	259538	0.0861!!	BB	EXT	AREA
17		18.949	32508		BB		
TOTAL			3492449	0.4567!!!			

!! Result calculation based on peak response more than 10% outside of calibration range.
 ! Result calculation based on peak response ratio outside of calibration range.

Sample: AR1221.1 Channel: ECD-1A Filename: 812211
Acquired: 12-SEP-89 21:50 Method: C:\MHA\DATA\1\8\SEP7159\9125 Operator: CGS
Inj Vol: 2.00
Comments: PRIMARY COLUMN DB-608 MEGA80RE 3400-1A ACUREX ERC 3080CLP CASE# 8903117



MAXIMA 820 CUSTOM REPORT

Printed: 12-SEP-1989 12:10:42

SAMPLE: AR1221.I

#8 In Method: 09/12/69,P,N
 Acquired: 12-SEP-1989 21:50
 Rate: 2.3 points/sec
 Duration: 19.998 minutes
 Operator: OGD

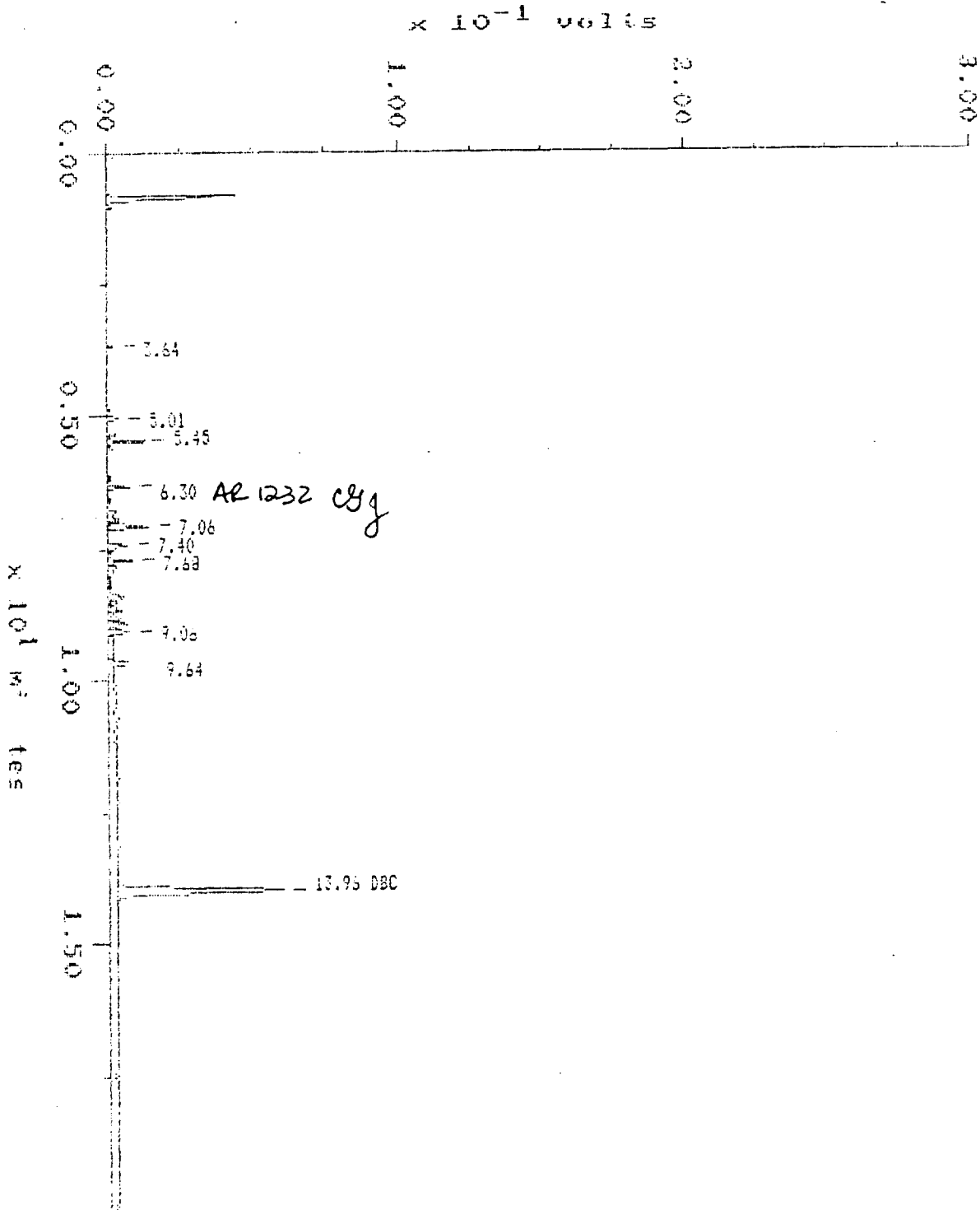
Type: UNKN
 Instrument: 3400-1A
 Filename: 812211
 Index: Disk
 Injection Volume: 2.0

DETECTOR: ECD-1A

PK#	Component Name	Retention Time (minutes)	Peak Area	Solution Conc (ng/ul)	Type	Code	Base
1		3.637	9656		BB		
2		5.001	16517		BB		
3		5.317	11534		BB		
4	AR1221 CG	5.441	39878	1.000 CG	BF		
5		5.593	6119		FB		
6	DBC	13.948	372116	0.0969	BB	EXT	AREA
TOTAL			455820	0.0969			

Sample: AR1232.1 Channel: E08-1A
Acquired: 12-SEP-89 22:14 Method: D:\MAX\DATA\1\A\SEPT\890912B
Inj Vol: 2.00
Comments: PRIMARY COLUMN DB-508 MEGABORE 3400-1A ACUREX ERD 8080CLP CAGE# 8908117

Filename: 612321
Operator: CGJ



MAXIMA 820 CUSTOM REPORT

Printed: 13-SEP-1989 12:11:28

SAMPLE: AR1232,1

Run Method: 09/12/89,P,N
 Acquired: 12-SEP-1989 22:14
 Rate: 2.3 points/sec
 Duration: 19.998 minutes
 Operator: CGJ

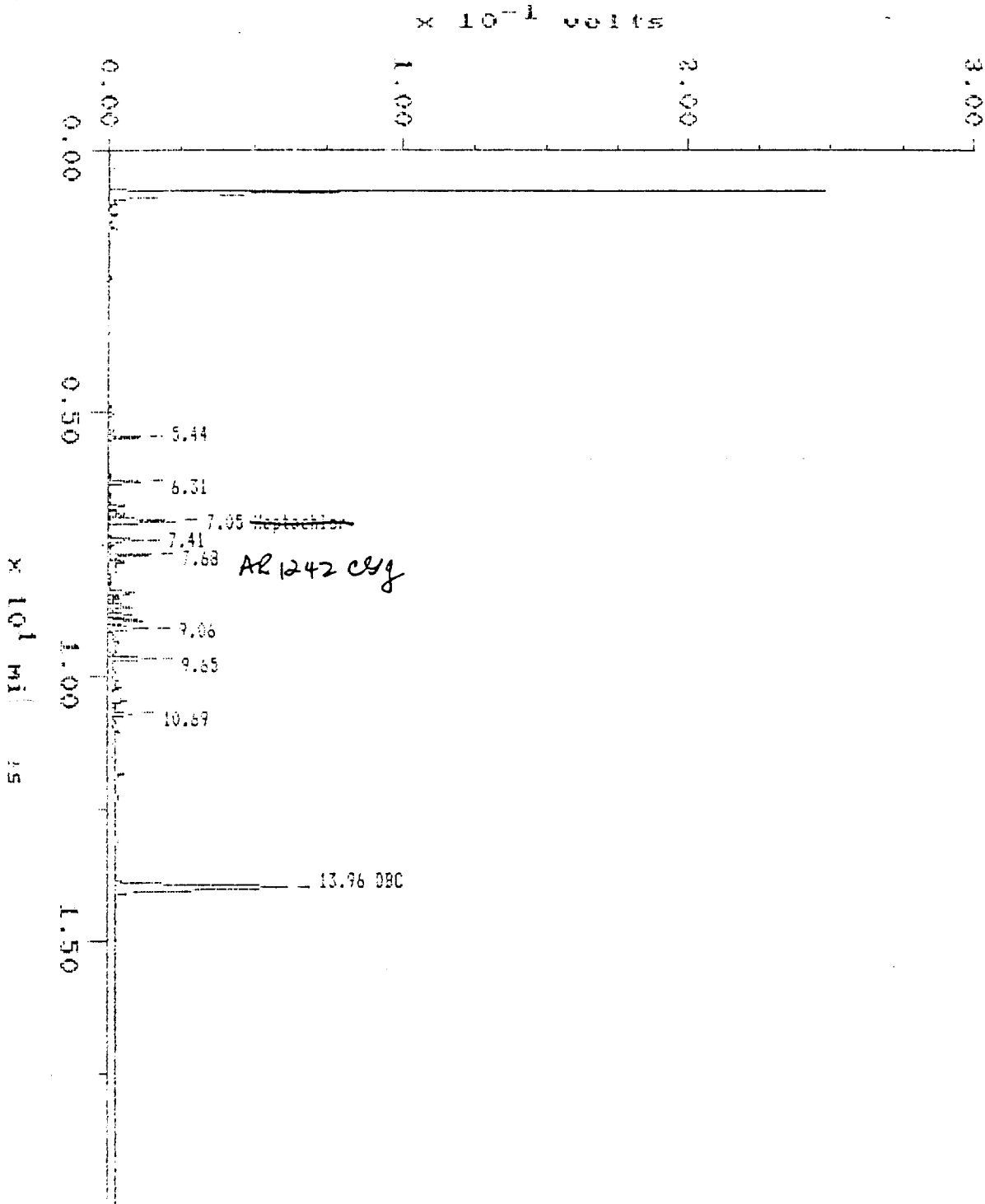
Type: UNKN
 Instrument: 3400-1A
 Filename: 812321
 Index: Disk
 Injection Volume: 2.0

DETECTOR: ECD-1A

PK#	Component Name	Retention Time (minutes)	Peak Area	Solution Conc (ng/ul)	Type	Code	Base
1		3.637	5302		BB		
2		5.009	10698		BB		
3		5.449	35955		BB		
4	<i>AR1232 csg</i>	6.299	24570	<i>1.000 csg</i>	BB		
5		7.062	55841		BB		
6		7.399	12467		BB		
7		7.678	26319		BB		
8		9.057	93403		BB		
9		9.543	23758		BB		
10	OBC	13.955	384215	0.10011	BB	EXT	AREA
TOTAL			683511	0.10011			

* Result calculation based on peak response ratio outside of calibration range.

Sample: AR1242.1 Channel: ECD-1A Filename: 512421
Acquired: 12-SEP-89 22:38 Method: C:\MAX\DATA\AN\SEPT\8909123 Operator: CGJ
Inj Vol: 2.00
Comments: PRIMARY COLUMN DB-608 MEGABORE 3400-1A ACUREX ERD 8080CLP CASE# 9909117



MAXIMA 820 CUSTOM REPORT

Printed: 13-SEP-1989 12:12:16

SAMPLE: AR1242.I

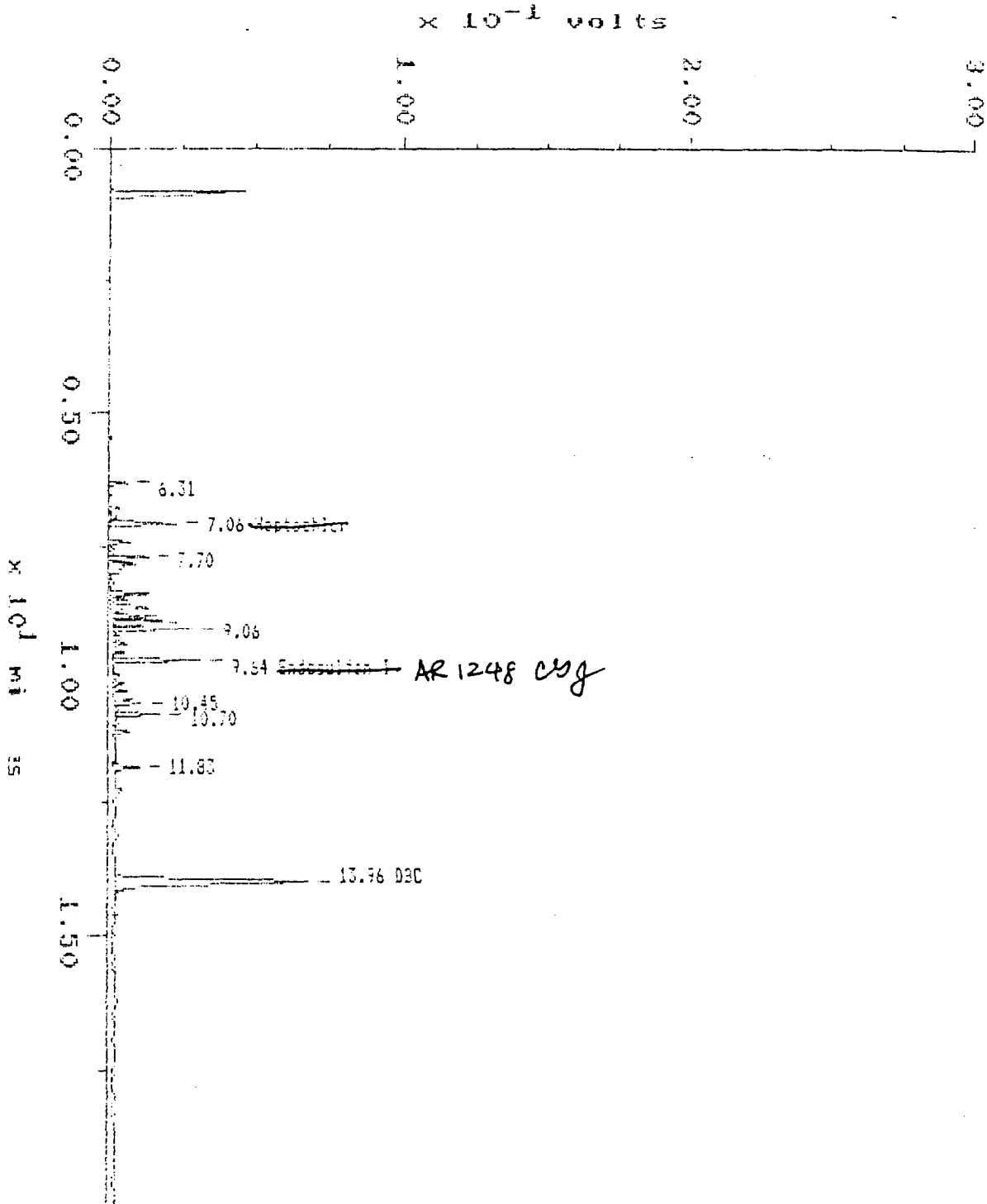
#10 in Method: 09/12/89,P.M
 Acquired: 12-SEP-1989 22:38
 Rate: 2.3 points/sec
 Duration: 19.998 minutes
 Operator: CSJ

Type: UNKN
 Instrument: 3400-1A
 Filename: 812421
 Index: Disk
 Injection Volume: 2.0

DETECTOR: ECD-1A

PK#	Component Name	Retention Time (minutes)	Peak Area	Solution Conc (ng/ul)	Type	Code	Base
1		5.441	30223		BB		
2		6.307	39248		BB		
3	Heptachlor <i>CSJ</i>	7.055	95507	0.011 <i>CSJ</i>	BB	EXT	AREA
4		7.407	39399		SB		
5	<i>AR1242 CSJ</i>	7.573	48233	<i>1.000 CSJ</i>	BB		
6		7.057	123145		BB		
7		9.651	46933		BB		
8		10.892	21591		BB		
9	D3C	13.955	382231	0.0795	BB	EXT	AREA
TOTAL			884616	0.1160			

Sample: AR1248.I Channel: EDD-1A Filename: 812481
Acquired: 12-SEP-89 23:02 Method: C:\MAX\DATA1\1\SEPT\89\09123 Operator: CGJ
Inj Vol: 2.00
Comments: PRIMARY COLUMN DB-608 MEGAPORE 3400-1A ACUREX ERD 8030CLP CASE# 8908117



MAXIMA 820 CUSTOM REPORT

Printed: 12-SEP-1999 12:13:04

SAMPLE: AR1248.I

File in Method: 09/12/97.P.N
 Acquired: 12-SEP-1999 23:02
 Rate: 2.3 points/sec
 Duration: 19.998 minutes
 Operator: CCG

Type: URMN
 Instrument: 3400-1A
 Filename: 912481
 Index: Disk
 Injection Volume: 2.0

DETECTOR: EDD-1A

PK#	Component Name	Retention Time (minutes)	Peak Area	Solution Conc (ng/ul)	Type	Code	Base
1		6.307	20613		BB		
2	Heptachlor <i>CCG</i>	7.062	93895	0.1174	EB	EXT	AREA
3		7.700	45940		BB		
4		9.057	325827		BB		
5	Endosulfan <i>1.000 CCG AR1248</i>	9.643	93562	0.1174 <i>1.000 CCG</i>	BB	EXT	AREA
6		10.450	64241		BB		
7		10.699	53047		BB		
8		11.825	33471		BB		
9	DBC	13.955	450729	0.1174!!	BB	EXT	AREA
TOTAL			1201345	0.1534!!			

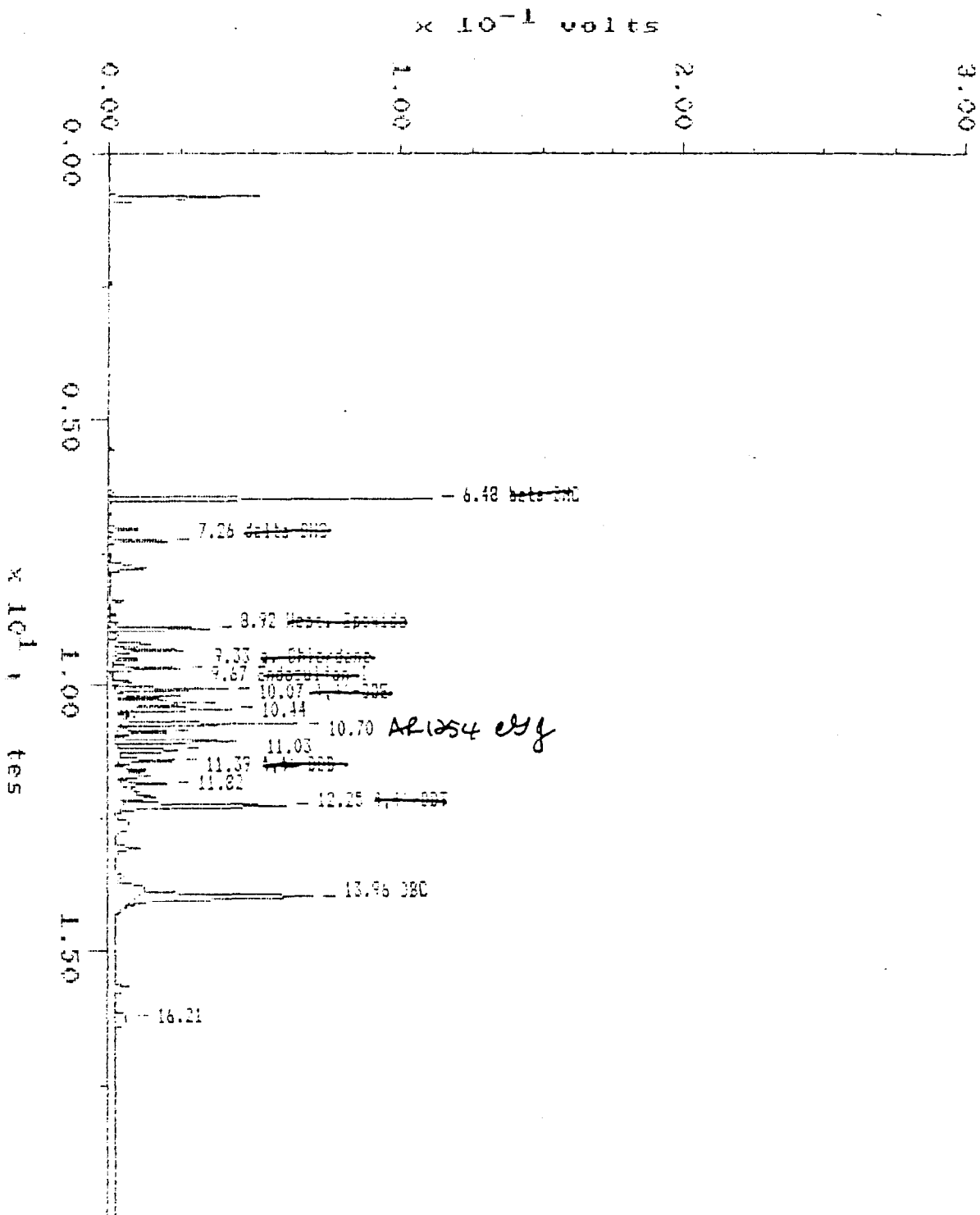
!! Result calculation based on peak response more than 10% outside of calibration range.

Sample: AR1254.1
Acquired: 12-SEP-89 23:26
Inj Vol: 2.00

Channel: ECD-1A
Method: C:\MAANDATA\ANSEPT\890912B

Filename: 812541
Operator: LGG

Comments: PRIMARY COLUMN DB-608 MEGABORE 3400-1A ACUREX EPO 8080CLP CASE# 8908117



MAXIMA 820 CUSTOM REPORT

Printed: 12-SEP-1989 12:13:52

SAMPLE: AR1254.1

#12 in Method: 09/12/89,P.N
 Acquired: 12-SEP-1989 23:26
 Rate: 3.3 points/sec
 Duration: 19.998 minutes
 Operator: CGJ

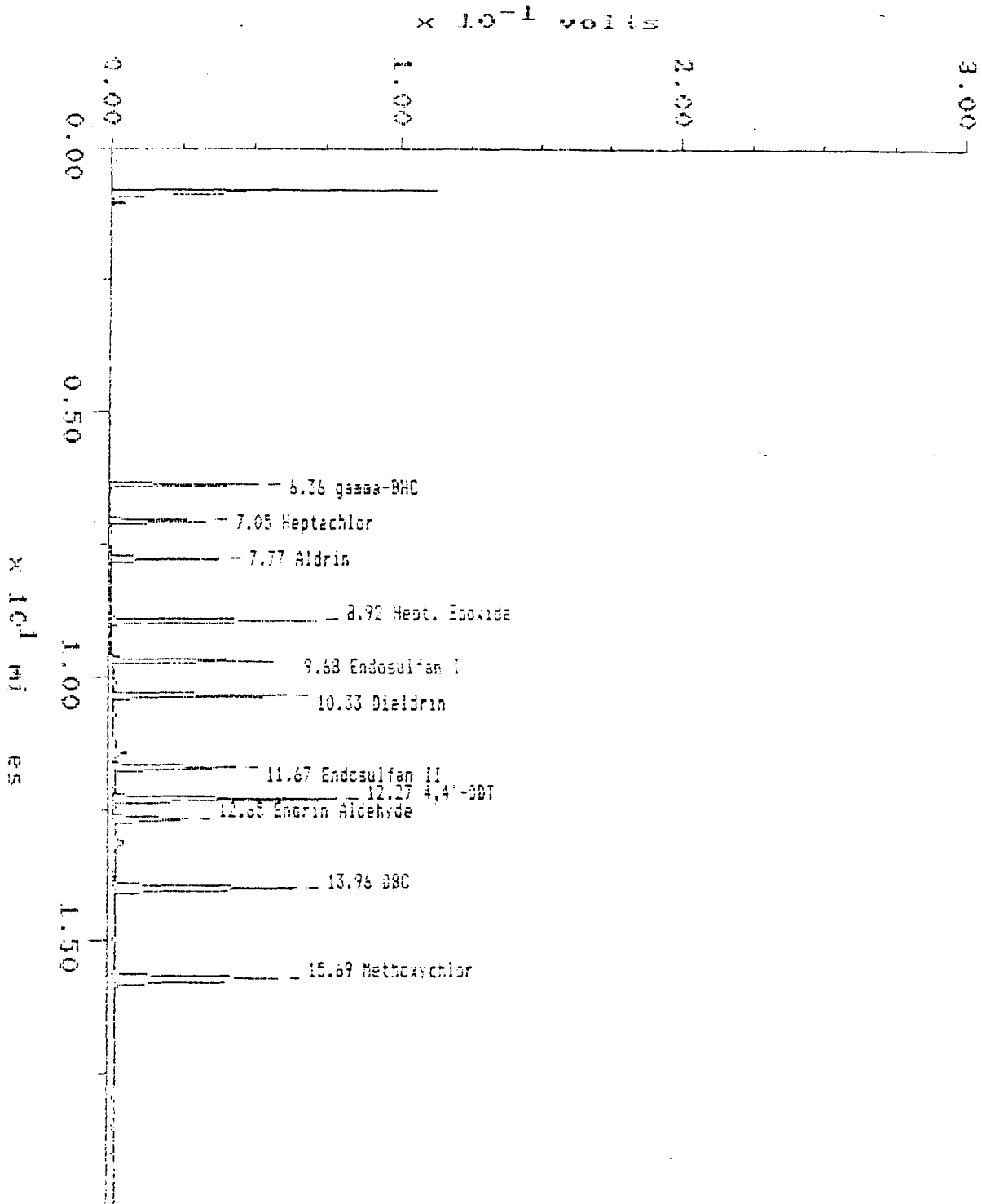
Type: UNKN
 Instrument: 3400-16
 Filename: 812541
 Index: Disk
 Injection Volume: 2.0

DETECTOR: ECD-1A

PK#	Component Name	Retention Time (minutes)	Peak Area	Solution Conc (ng/ul)	Type	Code	Base
1	beta-BHC	6.475	297347	0.13170	BB	EXT	AREA
2	beta-BHC	7.260	90610	0.0127	BB	EXT	AREA
3	Hept. Epoxide	8.917	124101	0.0212	BB	EXT	AREA
4	gamma-Chloroane	9.328	74291	0.0143	BB	EXT	AREA
5	Endosulfan I	9.865	58807	0.0184	BB	EXT	AREA
6	gamma-BHC	10.069	123246	0.0121	BP	EXT	AREA
7		10.215	45800		BP		
8		10.325	76388		BP		
		10.443	114825		BP		
	<i>AR 1254 CGJ</i>	10.699	201212	<i>1.000 CGJ</i>	BP		
11		10.846	63918		BP		
12		11.029	154150		PP		
13	gamma-BHC	11.196	79357	0.0122	PP	EXT	AREA
14	gamma-BHC	11.389	74810	0.0120	BB	EXT	AREA
15		11.821	57218		BB		
16	gamma-BHC	12.254	280802	0.0242	BB	EXT	AREA
17	DBC	13.955	381346	0.0793	BB	EXT	AREA
18		16.214	49539		BB		
TOTAL			2376666	0.426111			

!! Result calculation based on peak response more than 10% outside of calibration range.

Sample: INCA,8 Channel: ECD-1A File: BFNDA2
Acquired: 13-SEP-89 16:15 Method: C:\MAXDATA\ANSEPT\8909123 Operator: CSC
Inj Vol: 2.00
Comments: PRIMARY COLUMN DB-608 MEGAPORE 3400-1A ACUREX ERG 8080CLP CASE: 8908117



MAXIMA 820 CUSTOM REPORT

Printed: 13-SEP-1989 17:47:39

SAMPLE: INDA,3

#24 In Method: 09/12/89,P,N
 Acquired: 13-SEP-1989 16:15
 Rate: 2.3 points/dec
 Duration: 19.998 minutes
 Operator: DGI

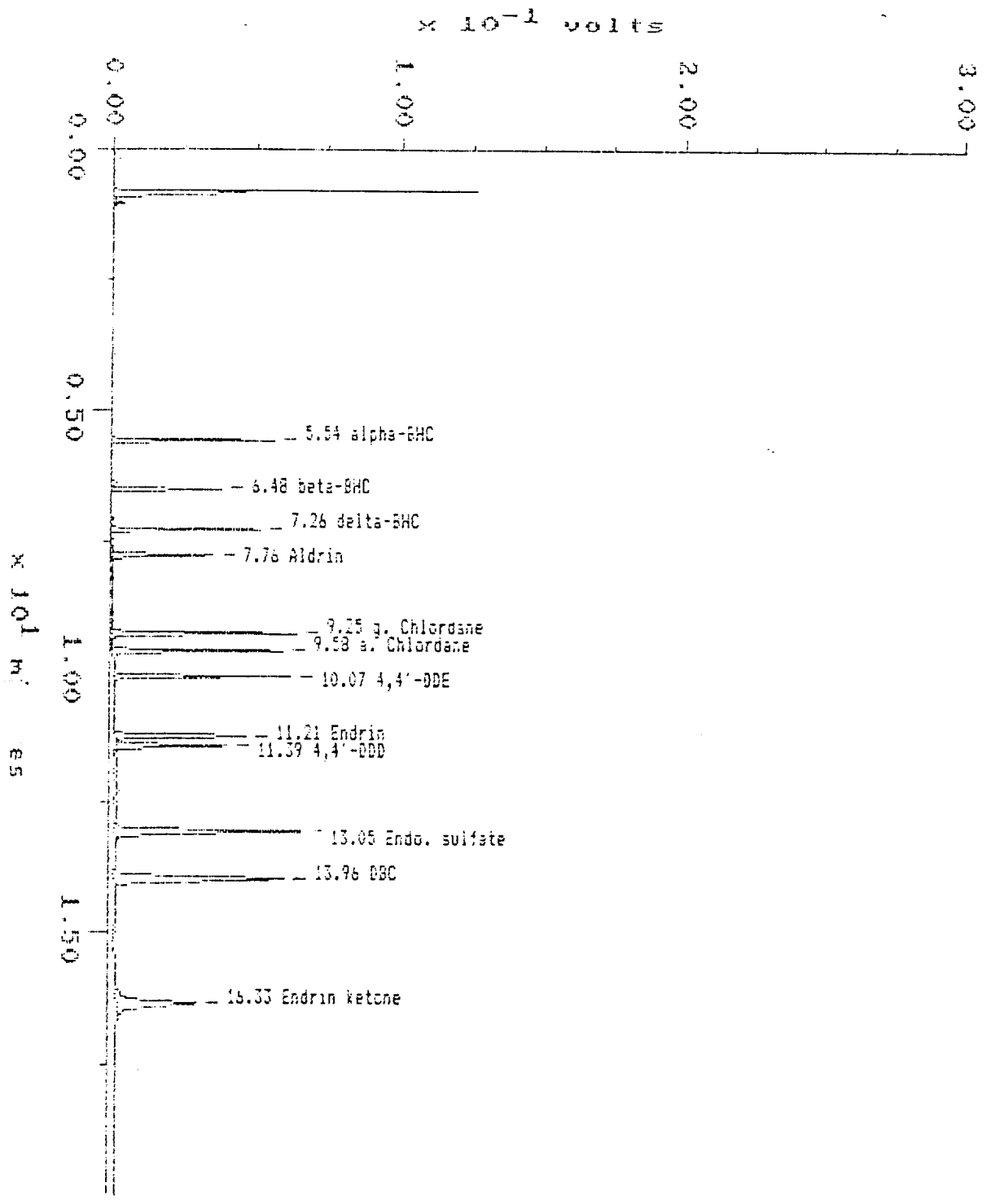
Type: UNKN
 Instrument: 3400-1A
 Filename: BINDA2
 Index: 2
 Injection Volume: 2.0

DETECTOR: ECD-1A

PK#	Component Name	Retention Time (minutes)	Peak Area	Solution Conc (ng/ul)	Type	Code	Base
1	gamma-BHC	6.358	147904	0.0196	BB	EXT	AREA
2	Heptachlor	7.055	113247	0.0195	BB	EXT	AREA
3	Aldrin	7.766	131423	0.0208	BB	EXT	AREA
4	Hept. Epoxide	8.925	234542	0.0401!	BB	EXT	AREA
5	Endosulfan I	9.680	188633	0.0400	BB	EXT	AREA
6	Dieldrin	10.328	220640	0.0402!	BB	EXT	AREA
7	Endosulfan II	11.675	181176	0.0400	BB	EXT	AREA
8	4,4'-DDE	12.269	350523	0.0206!	BB	EXT	AREA
9	Endrin Aldehyde	12.650	130728	0.0401!	BB	EXT	AREA
10	DDE	13.963	406880	0.1060!	BB	EXT	AREA
11	Methoxychlor	15.693	402933	0.2020!	BB	EXT	AREA
TOTAL			250267!	0.3469!			

! Result calculation based on peak response ratio outside of calibration range.

Sample: INDB.G Channel: ECD-1A Filename: BINDE2
Acquired: 13-SEP-89 16:39 Method: C:\MAXDATA\AN\SEPTA\890912B Operator: CGG
Inj Vol: 2.00
Comments: PRIMARY COLUMN DB-608 MEGABORE 3400-1A MUREX ERD 6080CLP CASE# 8908117



MAXIMA 820 CUSTOM REPORT

Printed: 13-SEP-1989 17:49:44

SAMPLE: INDS.0

#25 in Method: 09/12/89,P,N
 Acquired: 13-SEP-1989 16:39
 Rate: 2.3 points/sec
 Duration: 19.998 minutes
 Operator: CBB

Type: UNKN
 Instrument: 3400-1A
 Filename: BINDB2
 Index: 3
 Injection Volume: 2.0

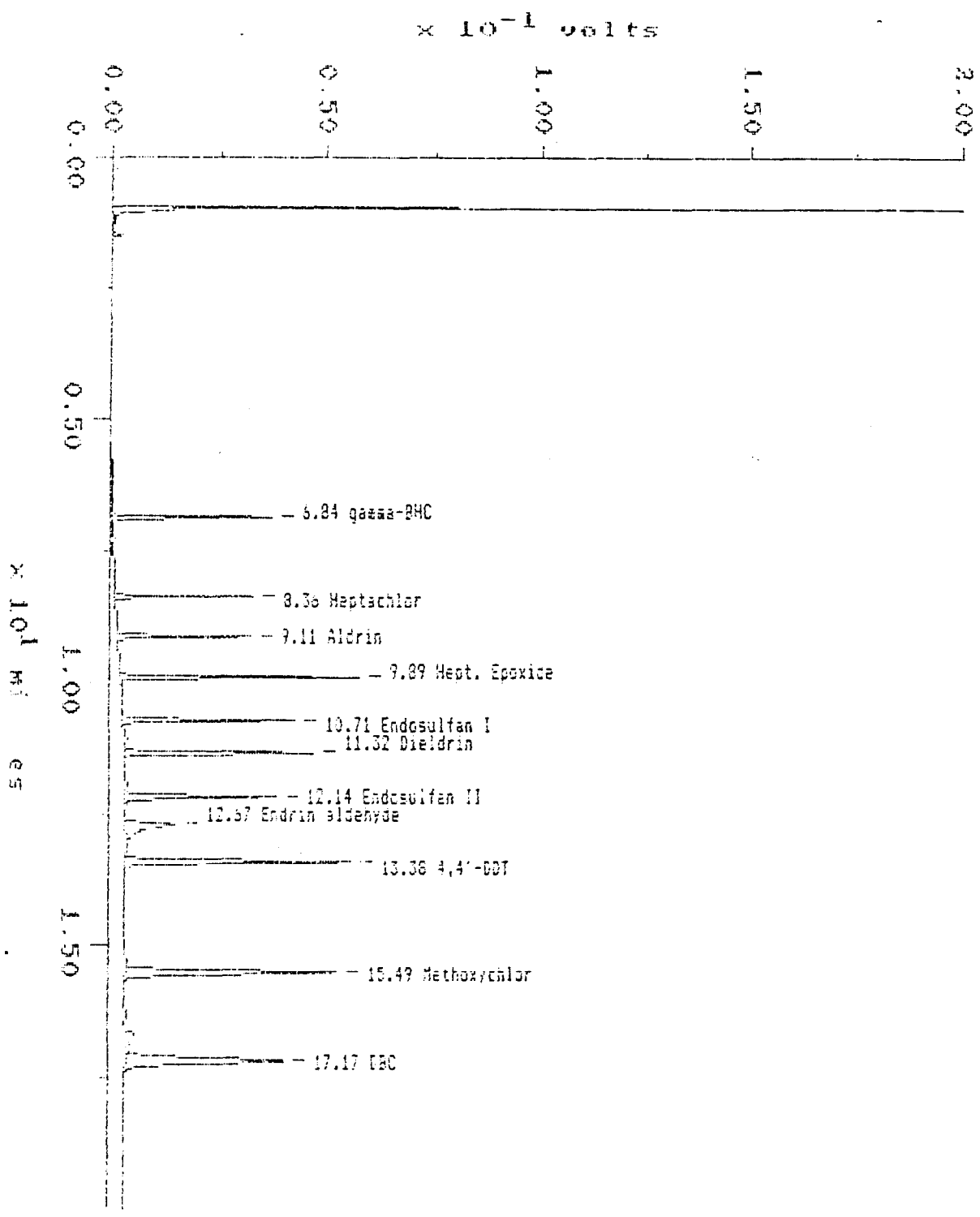
DETECTOR: ECD-1A

PK#	Component Name	Retention Time (minutes)	Peak Area	Solution Conc (ng/ul)	Type	Code	Base
1	alpha-BHC	5.537	157394	0.02061	BB	EXT	AREA
2	beta-BHC	6.475	111151	0.049211	BB	EXT	AREA
3	delta-BHC	7.250	146175	0.02051	BB	EXT	AREA
4	Aldrin	7.759	119643	0.0159	BB	EXT	AREA
5	γ-Chlordane	9.255	214952	0.04641	BB	EXT	AREA
6	α-Chlordane	9.585	202139	0.04071	BB	EXT	AREA
7	4,4'-DDE	10.089	194339	0.04111	BB	EXT	AREA
8	Endrin	11.205	179002	0.04041	BB	EXT	AREA
9	4,4'-DDD	11.389	151224	0.04101	BB	EXT	AREA
10	Endo. sulfate	13.046	340963	0.08181	BB	EXT	AREA
11	DHC	13.955	378829	0.0987	BB	EXT	AREA
12	Endrin ketone	16.331	221500	0.047911	BB	EXT	AREA
TOTAL			2417311	0.541211			

!! Result calculation based on peak response more than 10% outside of calibration range.

! Result calculation based on peak response ratio outside of calibration range.

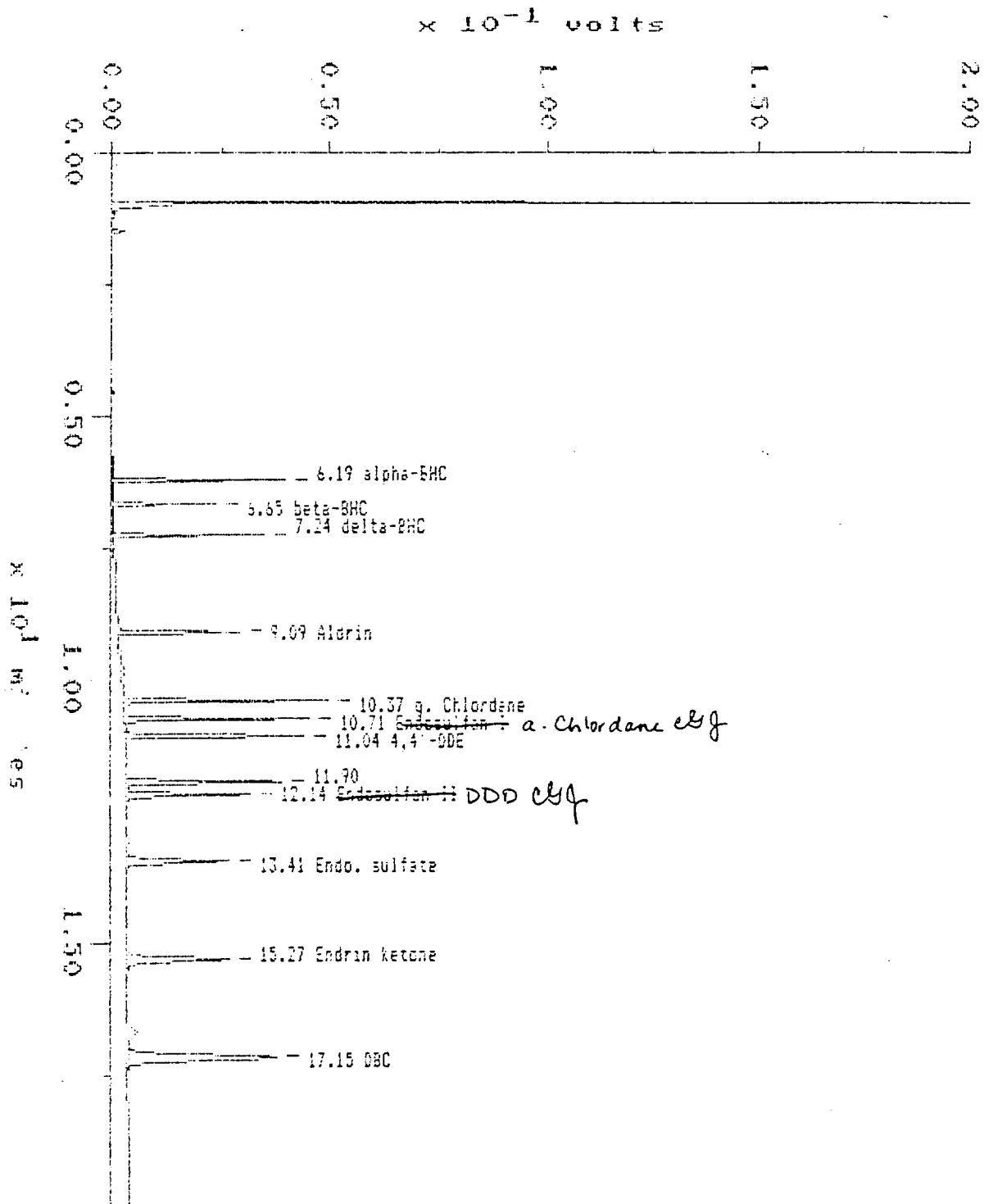
Sample: INDA.1 Channel: ECD-13 Filename: 8ND02
Acquired: 12-SEP-89 20:14 Method: C:\MAXDATA\13\SEP\18907123 Operator: CGJ
Inj Vol: 2.00
Comments: CONFIRMATION 28-5 MEGABORE 3400-1B ACUREX ERD 9030CLP CASE #8908117



Sample: INDS.1
Acquired: 12-SEP-89 20:38
Inj Vol: 2.00
Comments: CONFIRMATION DB-5 MEGABORE 3400-18 ACUREX ERD 3030CLP CASE #3903117

Channel: ECD-15
Method: C:\MAIN\DATA\18\SEPT\89\09123

Filename: EN582
Operator: CGJ



MAXIMA 820 CUSTOM REPORT

Printed: 12-SEP-1989 10:26:40

SAMPLE: BNGA2

#4 in Method: 09/12/89,C.M
 Acquired: 12-SEP-1989 20:14
 Rate: 2.3 points/sec
 Duration: 19.998 minutes
 Operator: CBJ

Type: STD
 Instrument: 3400-18
 Filename: BNGA2
 Index: Disk
 Injection Volume: 2.0

DETECTOR: ECD-16

PX#	Component Name	Retention Time (minutes)	Peak Area	Solution Conc (ng/ul)	Type	Code	Base
1	gamma-BHC	8.942	102132	0.0200	BB	EXT	AREA
2	Heptachlor	8.360	95062	0.0200	BB	EXT	AREA
3	Aldrin	9.138	91167	0.0200	BB	EXT	AREA
4	Hept. Epoxide	9.885	163903	0.0400	BB	EXT	AREA
5	Endosulfan I	10.707	139917	0.0400	BB	EXT	AREA
6	Dieldrin	11.323	166739	0.0400	BB	EXT	AREA
7	Endosulfan II	12.144	145233	0.0400	BB	EXT	AREA
8	Endrin aldehyde	12.672	87010	0.0400	BB	EXT	AREA
9	4,4'-DDT	13.376	260258	0.0800	BB	EXT	AREA
10	Methoxychlor	15.488	312049	0.2000	BB	EXT	AREA
11	BHC	17.175	286944	0.1000	BB	EXT	AREA
TOTAL			1355415	0.6400			

MAXIMA 820 CUSTOM REPORT

Printed: 13-SEP-1989 10:27:14

SAMPLE: INDR.1

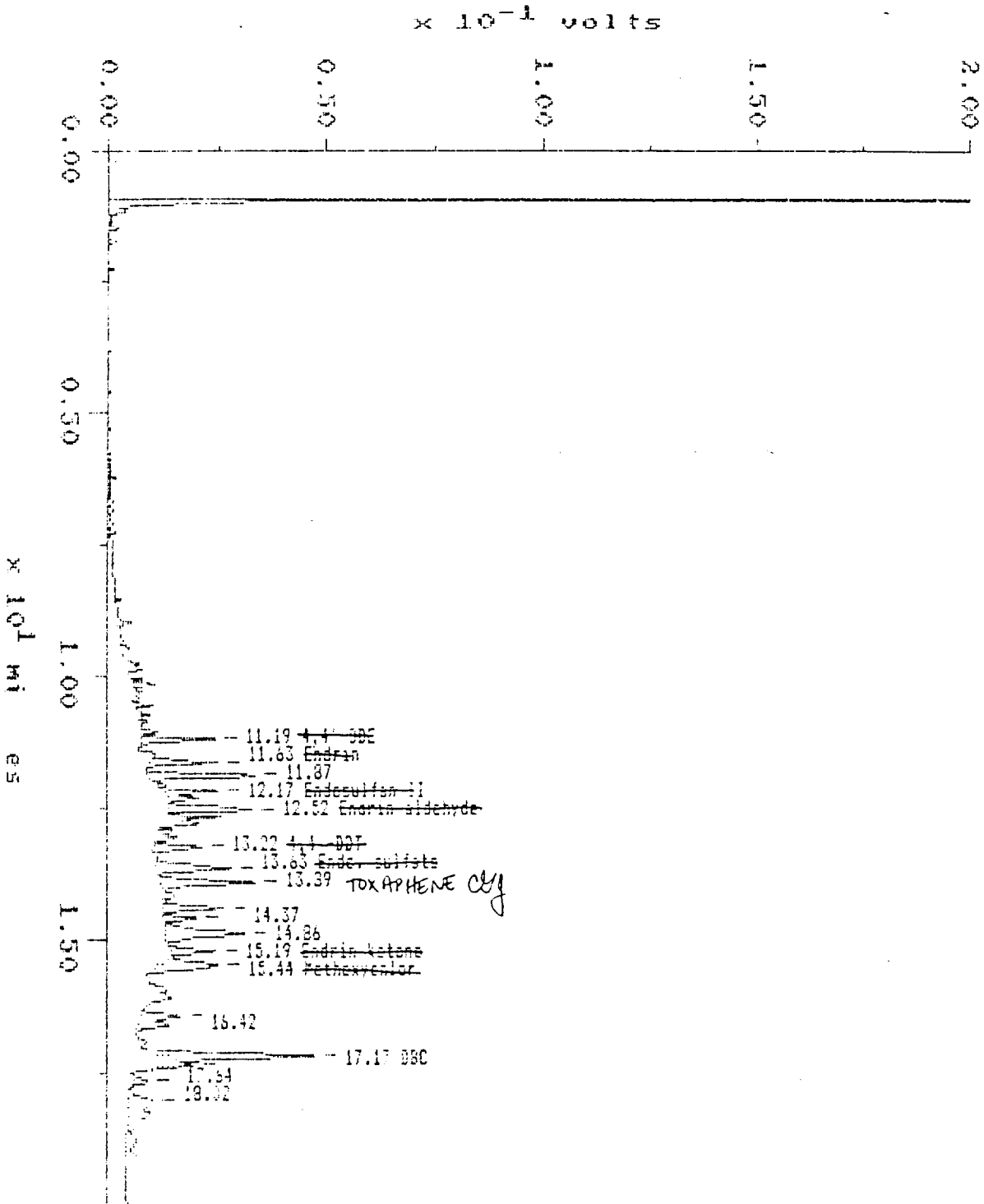
MS in Method: 09/12/89,D,W
 Acquired: 12-SEP-1989 20:38
 Rate: 2.3 points/sec
 Duration: 19.998 minutes
 Operator: CGJ

Type: STD
 Instrument: 3400-1B
 Filename: ENDB2
 Index: Disk
 Injection Volume: 2.0

DETECTOR: ECD-18

PK#	Component Name	Retention Time (minutes)	Peak Area	Solution Conc (ng/ul)	Type	Code	Base
1	alpha-BHC	6.189	105982	0.0200	BB	EXT	AREA
2	beta-BHC	6.851	63657	0.0400	BB	EXT	AREA
3	delta-BHC	7.238	92274	0.0200	BB	EXT	AREA
4	Aldrin	9.086	81544	0.0200	BB	EXT	AREA
5	γ-Chlordane	10.369	155825	0.0400	BB	EXT	AREA
6	Endosulfan I <i>a. Chlordane</i>	10.707	148563	0.0400 <i>0.0400</i>	BB	EXT	AREA
7	4,4'-DDE	11.037	141905	0.0400	BB	EXT	AREA
8	<i>Endrin</i>	11.902	142043	<i>0.0400</i>	BB	EXT	AREA
9	Endosulfan II <i>4,4'-DDD</i>	12.144	116827	0.0400 <i>0.0400</i>	BB	EXT	AREA
10	Endo. sulfate	13.413	111759	0.0500	BB	EXT	AREA
11	Endrin ketone	15.268	138820	0.0400	BB	EXT	AREA
12	DDE	17.153	263451	0.1000	BB	EXT	AREA
TOTAL			1564250	0.4000			

Sample: TOXAPH.1 Channel: ECD-1B Filename: 3081
 Acquired: 12-SEP-89 21:02 Method: C:\MAXDATA\18\SEPT\890912B Operator: CGJ
 Inj Vol: 2.00
 Comments: CONFIRMATION DB-5 MEGAORE 3400-1B ACUREX ERO 8080CLP CASE #3798117



MAXIMA 820 CUSTOM REPORT

Printed: 12-SEP-1999 12:37:27

SAMPLE: TOXAPH.

#6 in Method: 09/12/89,C,N
 Acquired: 12-SEP-1999 21:02
 Rate: 2.3 points/sec
 Duration: 19.998 minutes
 Operator: JGG

Type: UNKN
 Instrument: 8400-1B
 Filename: B011
 Index: Disk
 Injection Volume: 2.0

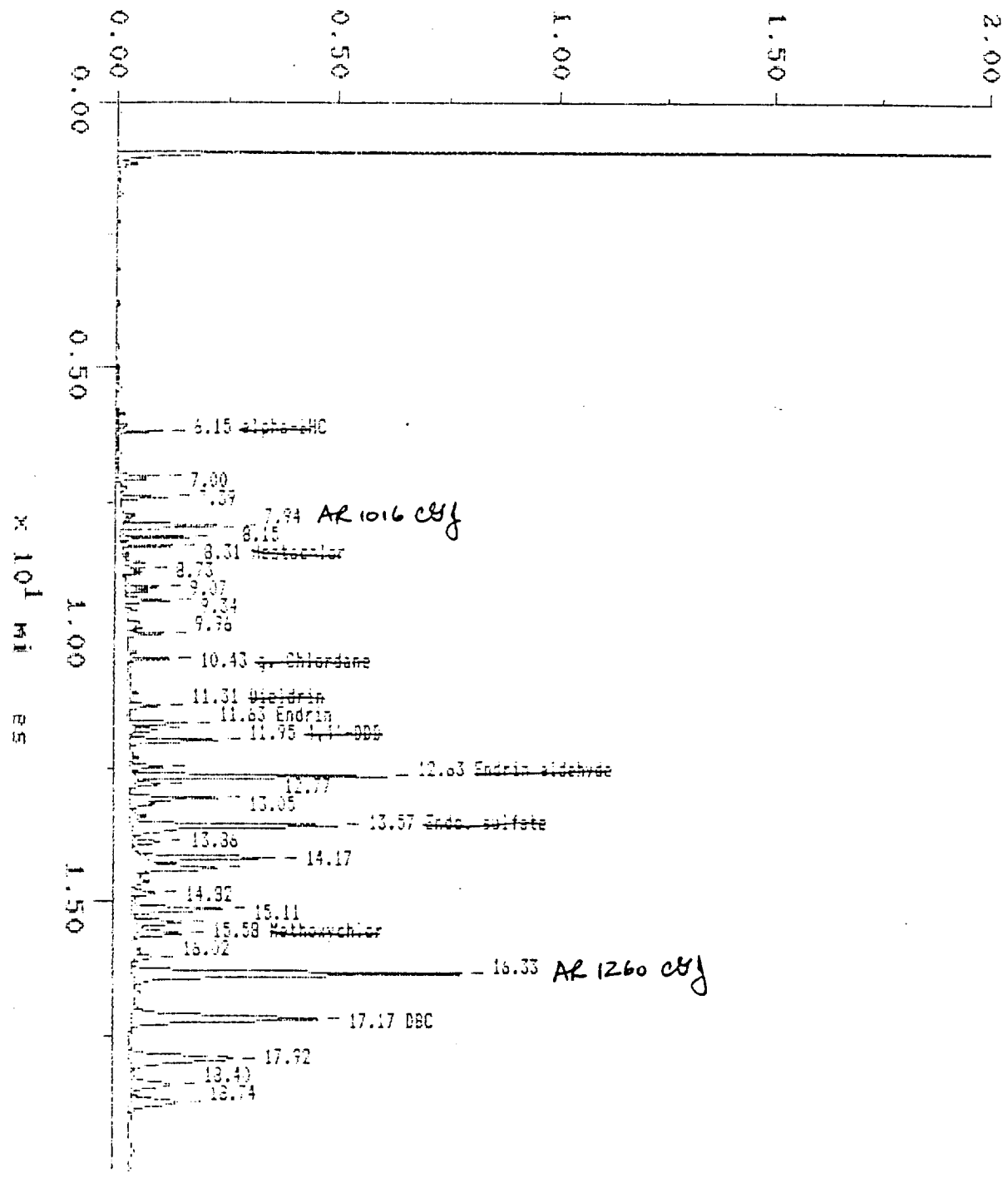
DETECTOR: ECD-1B

PK#	Component Name	Retention Time (minutes)	Peak Area	Solution Conc (ng/ul)	Type	Code	Base
1	4,4'-DDE	11.191	79786	0.4025	BB	EXT	AREA
2	Endrin	11.631	78601	Invalid	BP	EXT	AREA
3		11.373	129310		PB		
4	Endosulfan II	12.156	86023	0.4025	BB	EXT	AREA
5	Endrin aldehyde	12.518	121418	0.4025	BB	EXT	AREA
6	4,4'-DDE	13.222	63551	0.4025	BP	EXT	AREA
7	Endo. sulfate	13.625	129585	0.4025	PP	EXT	AREA
8	TOXAPHENE <i>cg</i>	13.889	142574	2.000 <i>cg</i>	PB		
9		14.373	74602		BP		
10		14.554	34067		PP		
11		14.857	155651		PP		
12	Endrin ketone	15.137	50700	0.4025	PB	EXT	AREA
13	Methoxychlor	15.444	133311	0.4025	BB	EXT	AREA
14		16.419	103051		SB		
15	UBC	17.175	244633	0.4025	BB	EXT	AREA
16		17.351	14121		BB		
17		17.637	24017		BB		
18		18.018	189824		BB		
TOTAL			1865385	0.4035!!			

!! Result calculation based on peak response more than 10% outside of calibration range.

Sample: AR150.1 Channel: EDD-1s Filename: B5601
 Acquired: 12-SEP-89 21:26 Method: C:\MSA\DATA\12\SEP\12\B5601.D Operator: CGJ
 Inj Vol: 2.00
 Comments: CONFIRMATION 09-5 MEGA20RE 3400-18 AGLREX ERO 8083CLP CASE #8908117

$\times 10^{-1}$ volts



MAXIMA 820 CUSTOM REPORT

Printed: 13-SEP-1989 12:38:20

SAMPLE: 4R1500.1

#7 in Method: 09/12/89,C.W
 Acquired: 12-SEP-1989 21:26
 Rate: 2.3 points/sec
 Duration: 19.798 minutes
 Operator: CCG

Type: UNKN
 Instrument: 3400-18
 Filename: 86501
 Index: Disk
 Injection Volume: 2.0

DETECTOR: ECD-18

PK#	Component Name	Retention Time (minutes)	Peak Area	Solution Conc (ng/ul)	Type	Code	Base
1	alpha BHC	6.153	28351	0.0054	BB	EXT	AREA
2		6.996	39710		BB		
3		7.352	31712		BB		
4	AR 1016 <i>cyg</i>	7.742	103092		BB		
5		8.155	43792	1.000 <i>cyg</i>	BB		
6	Heptachlor	8.309	33432	0.0070	BB	EXT	AREA
7		8.727	40903		BB		
8		9.071	40761		BB		
9		9.335	37756		BB		
10		9.959	20481		BB		
11	gamma-Chloroane	10.428	27349	0.0070	BB	EXT	AREA
12	Endrin	11.308	30353	0.0070	BP	EXT	AREA
13	Endrin	11.631	43038	Invalid	FP	EXT	AREA
14		11.748	16851		FP		
15	1,1 DDE	11.953	92509	Invalid	FB	EXT	AREA
16		12.437	31005		BP		
17	Endrin succinate	12.628	336842	0.0070	FP	EXT	AREA
18		12.775	20074		FP		
19		13.046	115403		FP		
20	Endo. sulfate	13.567	289775	0.0070	FP	EXT	AREA
21		13.860	31569		FP		
22		14.168	140421		FP		
23		14.359	69332		FP		
24		14.821	26170		FP		
25		15.114	119907		FP		
26	Endrin ketone	15.371	59018	0.0170	FP	EXT	AREA
27	Methoxychlor	15.575	61895	0.0070	FB	EXT	AREA
28	AR 1260 <i>cyg</i>	16.016	19681	1.000 <i>cyg</i>	BP		
29		16.331	487733		FB		
30	BEC	17.175	346811	0.1267	BB	EXT	AREA
31		17.715	203919		BP		
32		18.399	72826		FP		
33		18.737	92400		FB		

10

3091075

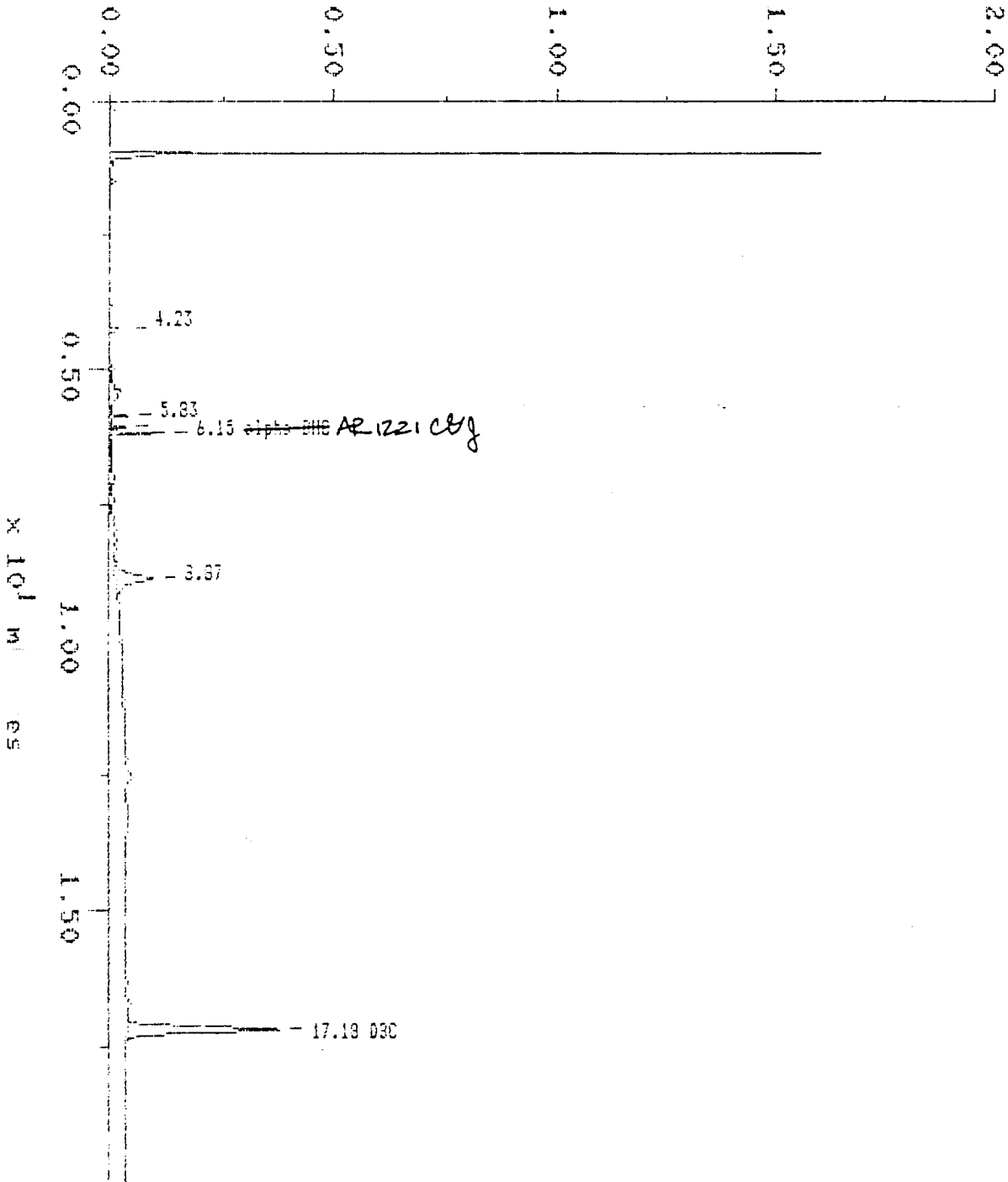
0.5273!!

!! Result calculation based on peak response more than 10% outside of calibration range.

Sample: AR1221.1 Channel: ECD-18
Acquired: 12-SEP-89 21:50 Method: C:\MAX\DATA\18\SEPT\89\09128
Inj Vol: 2.00
Comments: CONFIRMATION DB-5 MEGABORE 3400-18 ACUREX ERO 9080CLP CASE #8908117

Filename: 32211
Operator: CGJ

$\times 10^{-1}$ volts



MAXIMA 820 CUSTOM REPORT

Printed: 13-SEP-1989 12:39:16

SAMPLE: AR1221.1

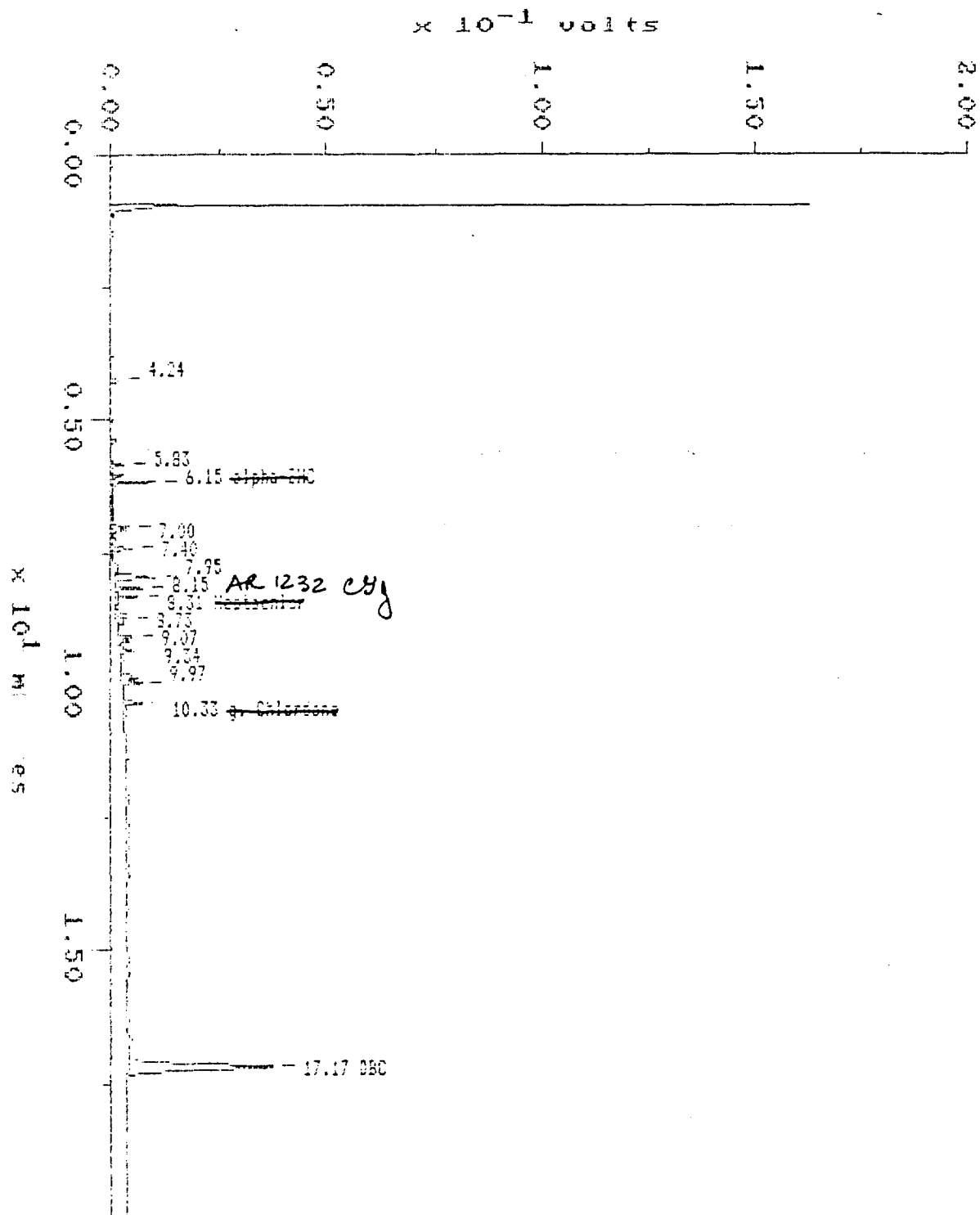
#8 in Method: 09/12/89.C.H
 Acquired: 13-SEP-1989 21:50
 Rate: 2.3 points/sec
 Duration: 19.998 minutes
 Operator: CGJ

Type: UNKN
 Instrument: 3400-19
 Filename: 82211
 Index: Disk
 Injection Volume: 2.0

DETECTOR: ECS-13

PK#	Component Name	Retention Time (minutes)	Peak Area	Solution Conc (ng/ul)	Type	Code	Base
1		4.231	7936		BB		
2		5.830	12895		BB		
3		6.028	8750		BB		
4	Alpha BHC AR1221 <i>cg</i>	6.153	33426	0.000 1.000 <i>cg</i>	BB	EXT	AREA
5		6.886	92306		BB		
6	BBC	17.182	265451	0.0964	BB	EXT	AREA
TOTAL			420766	0.1027			

Sample: 481232.1 Channel: ECD-1B Filename: 92021
Acquired: 12-SEP-89 22:14 Method: C:\MAX\DATA\16\SEPT\89\0912B Operator: CGJ
Inj Vol: 2.00
Comments: CONFIRMATION 05-5 MEGABORE 3400-1B ACUREX ERO 8080CLP CASE #8908117



MAXIMA 820 CUSTOM REPORT

Printed: 13-SEP-1989 12:39:55

SAMPLE: AR1232.1

#9 in Method: 09/12/89,C,N
 Acquired: 12-SEP-1989 22:14
 Rate: 2.3 points/sec
 Duration: 19.998 minutes
 Operator: CGJ

Type: UNKN
 Instrument: 3400-18
 Filename: 82321
 Index: Disk
 Injection Volume: 2.0

DETECTOR: ECD-18

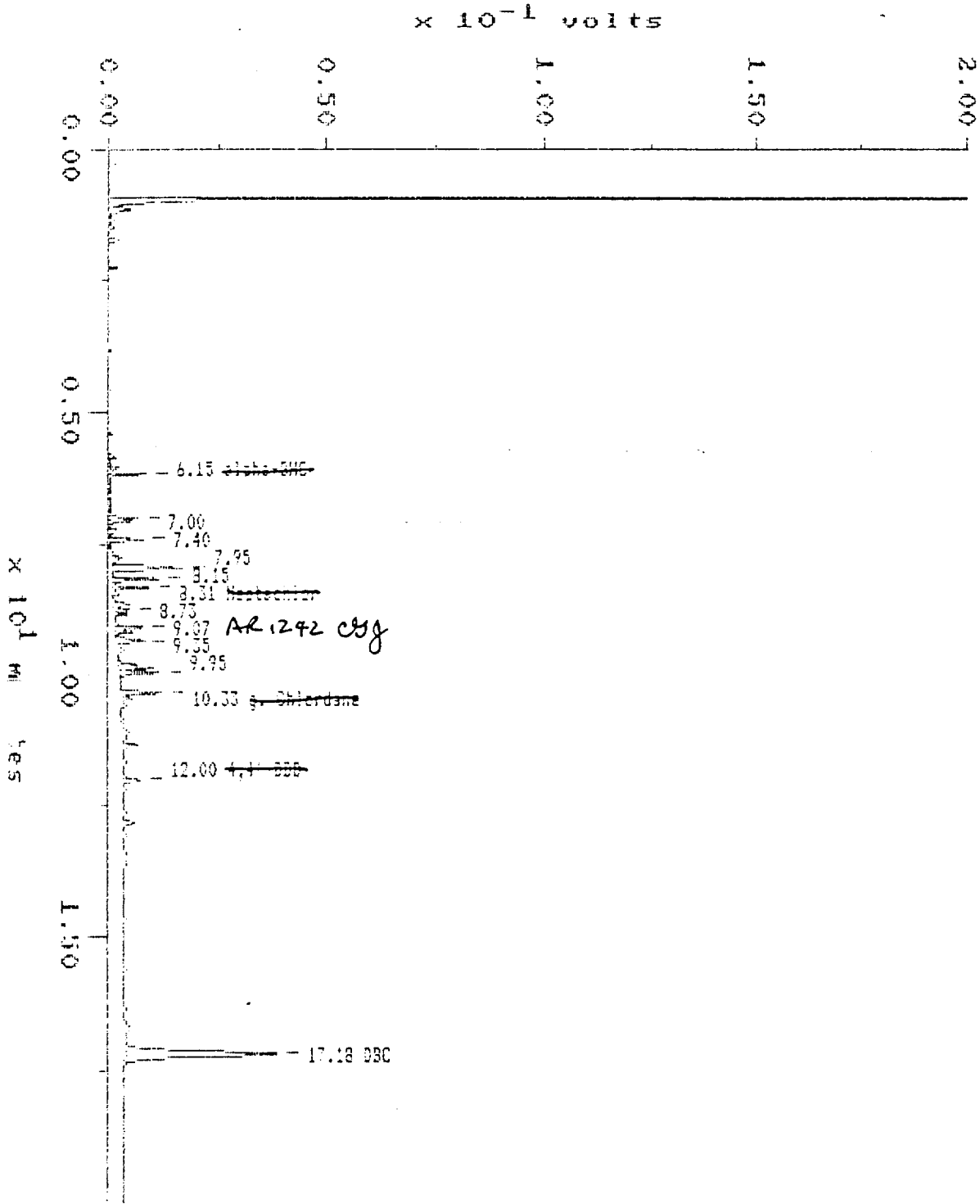
PK#	Component Name	Retention Time (minutes)	Peak Area	Solution Conc (ng/ul)	Type	Code	Base
1		4.239	4881		BB		
2		5.830	8114		BB		
3	alpha-BHC	6.153	27449	0.0002	BB	EXT	AREA
4		6.996	21277		BB		
5		7.399	12914		BB		
6		7.949	40205		BF		
7	AR 1232 <i>cg</i>	8.147	18846		BF		
8	metachlor	8.309	13732	0.0002	PB	EXT	AREA
		8.727	17175	1.000 <i>cg</i>	BB		
		9.071	15620		BP		
11		9.335	14442		PS		
12		9.966	29582		BB		
13	Chloroform	10.325	15266	0.0002	BB	EXT	AREA
14	BBC	17.175	263367	0.0956	BB	EXT	AREA
TOTAL			503091	0.1076			

Sample: AR1242.I
Acquired: 12-SEP-89 22:38
Inj Vol: 2.00

Channel: ECD-18
Method: C:\MSDCHEM\DATA\18\SEP7\8909123

File Name: 82421
Operator: CGJ

Comments: CONFIRMATION DB-5 MEGA90RE 3400-18 ACUREX ERD 8080CLP CASE #8908117



MAXIMA 820 CUSTOM REPORT

Printed: 13-SEP-1989 12:40:37

SAMPLE: AR1242.1

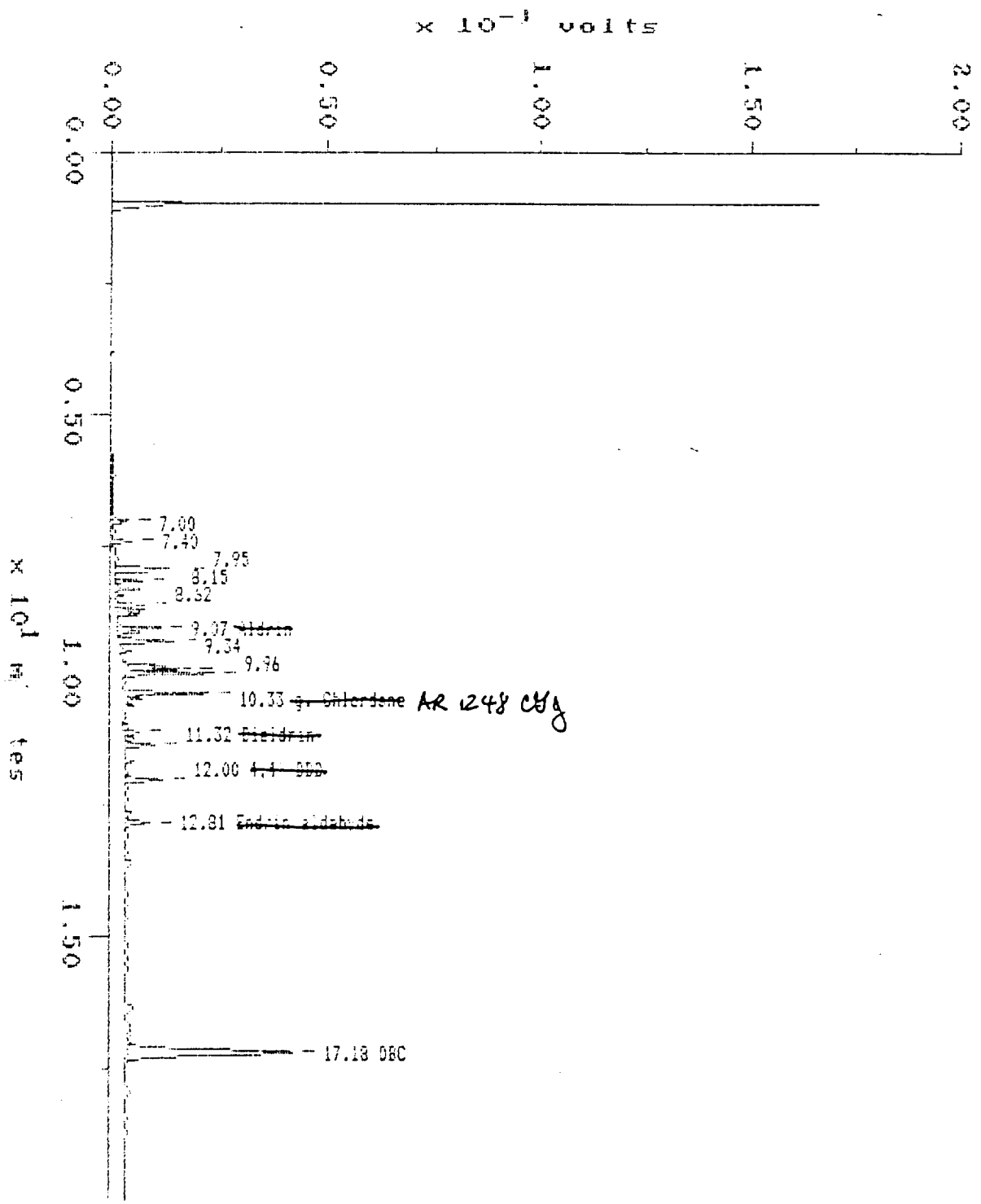
#10 in Method: 09/12/89,C,N
 Acquired: 12-SEP-1989 22:38
 Rate: 2.3 points/sec
 Duration: 19.998 minutes
 Operator: CGJ

Type: UNLN
 Instrument: 3400-18
 Filename: B0421
 Index: Disk
 Injection Volume: 2.0

DETECTOR: ECD-18

PK#	Component Name	Retention Time (minutes)	Peak Area	Solution Conc (ng/ul)	Type	Code	Base
1	alpha-BHC	6.153	23582	0.0045	BB	EXT	AREA
2		6.996	29164		BB		
3		7.399	22334		BB		
4		7.949	71378		SP		
5		8.147	30961		FF		
6	Hexachlor	8.309	22435	0.0045	FB	EXT	AREA
7		6.734	31136		BB		
8	AC 1242 <i>CGJ</i>	9.071	30439	1.000 <i>CGJ</i>	BP		
9		9.350	26665		FB		
10		9.951	66425		BB		
11	alpha-Chlordane	10.333	28804	0.0074	BB	EXT	AREA
12	4,4'-DDE	11.997	12788	Invalid	BB	EXT	AREA
13	DDE	17.182	273439	0.0993	BB	EXT	AREA
TOTAL			669551	0.1159			

Sample: AR1248.1 Channel: ECD-13 Filename: 32481
Acquired: 12-SEP-87 23:02 Method: C:\MAX\DATA\18\SEPT\8709123 Operator: CGC
Inj Vol: 2.00
Comments: CONFIRMATION DB-5 MEGABORE 3400-1B ACUREX ERO 3080CLP CASE 18608117



MAXIMA 820 CUSTOM REPORT

Printed: 13-SEP-1989 12:41:13

SAMPLE: AR1248.1

#11 in Method: 09/12/89,C,N
 Acquired: 12-SEP-1989 23:02
 Rate: 2.3 points/sec
 Duration: 19.998 minutes
 Operator: DBO

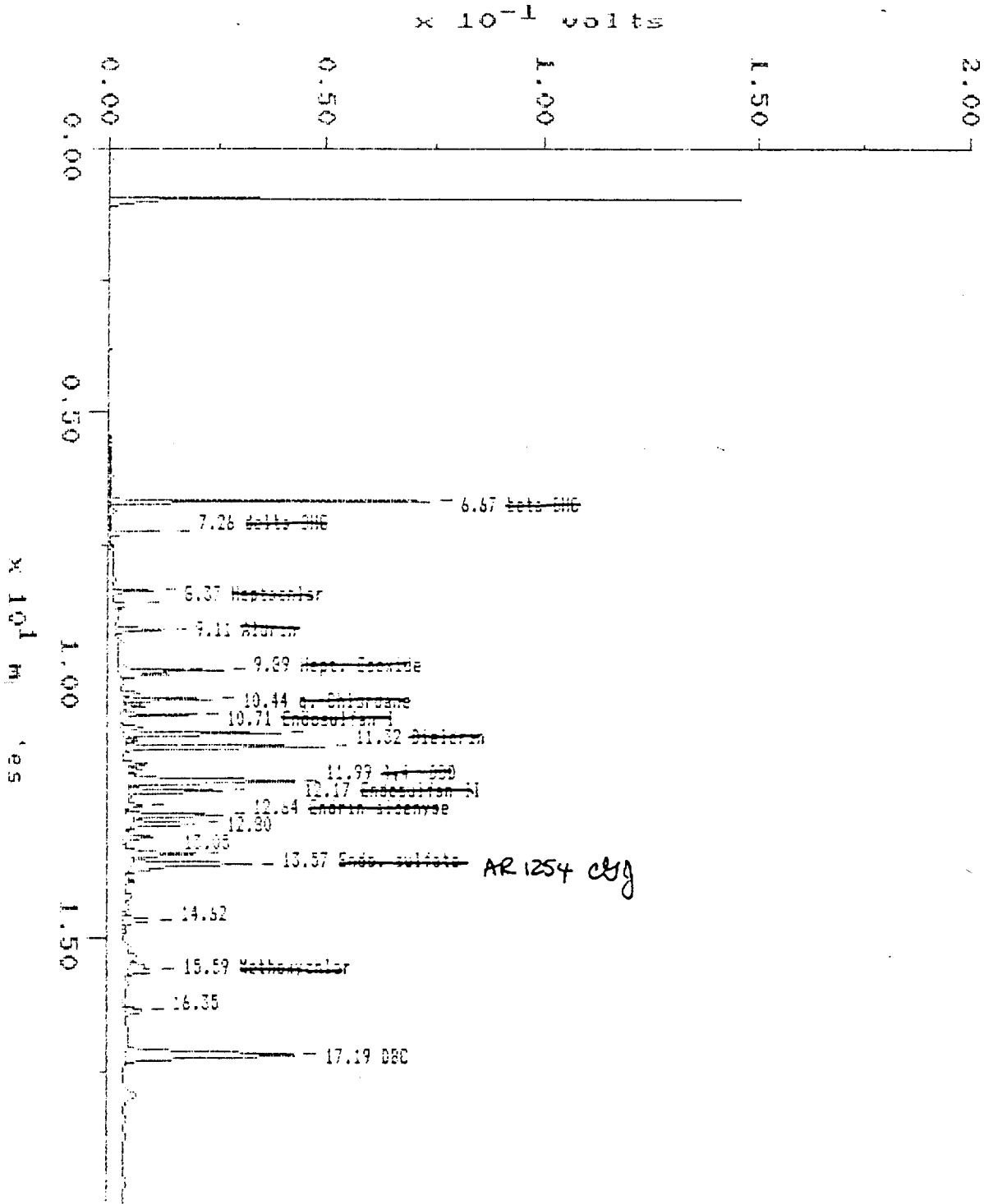
Type: UNKN
 Instrument: 3400-1B
 Filename: 82461
 Index: Disk
 Injection Volume: 2.0

DETECTOR: ECI-13

PK#	Component Name	Retention Time (minutes)	Peak Area	Solution Conc (ng/ul)	Type	Code	Base
1		6.996	15498		BB		
2		7.399	12364		BB		
3		7.949	66239		BB		
4		8.147	18296		BB		
5	acetone	8.316	15559	0.0033	BB	EXT	AREA
6		8.624	56523		BB		
7	nitro	9.071	46003	0.0106	BP	EXT	AREA
8		9.343	49462		FB		
	acet. acetone	9.863	58073	0.0139	BF	EXT	AREA
10	AR 1248 <i>cy</i>	9.959	51810		FB		
11	chloroform	10.333	63553	0.0165	BB	EXT	AREA
12		11.073	24511	0.0065 <i>1.000 cy</i>	BP		
13	acetone	11.323	23958	0.0065	BB	EXT	AREA
14	acetone	11.997	36650	0.0093	BB	EXT	AREA
15	acetone	12.611	24506	0.0065	BB	EXT	AREA
16	BSC	17.182	305713	0.1110!!	BB	EAT	AREA
TOTAL			868118	0.1120!!			

!! Result calculation based on peak response more than 10% outside of calibration range.

Sample: AR1254.1 Channel: ECD-1B Filename: B2541
 Acquired: 12-SEP-99 23:26 Method: C:\MAX\DATA1\B\SEPT\690912B Operator: CGJ
 Inj Vol: 2.00
 Comments: CONFIRMATION DB-5 MEGAORE 3400-1B ACUREX ERO 8060CLP CASE #6908117



MAXIMA 820 CUSTOM REPORT

Printed: 13-SEP-1989 12:42:02

SAMPLE: AR1254.1

#12 in Method: 09/12/89.D.M

Acquired: 12-SEP-1989 23:26

Rate: 2.0 points/sec

Duration: 19.998 minutes

Operator: DSI

Type: UNKN

Instrument: 3400-18

Filename: B2541

Index: Disk

Injection Volume: 2.0

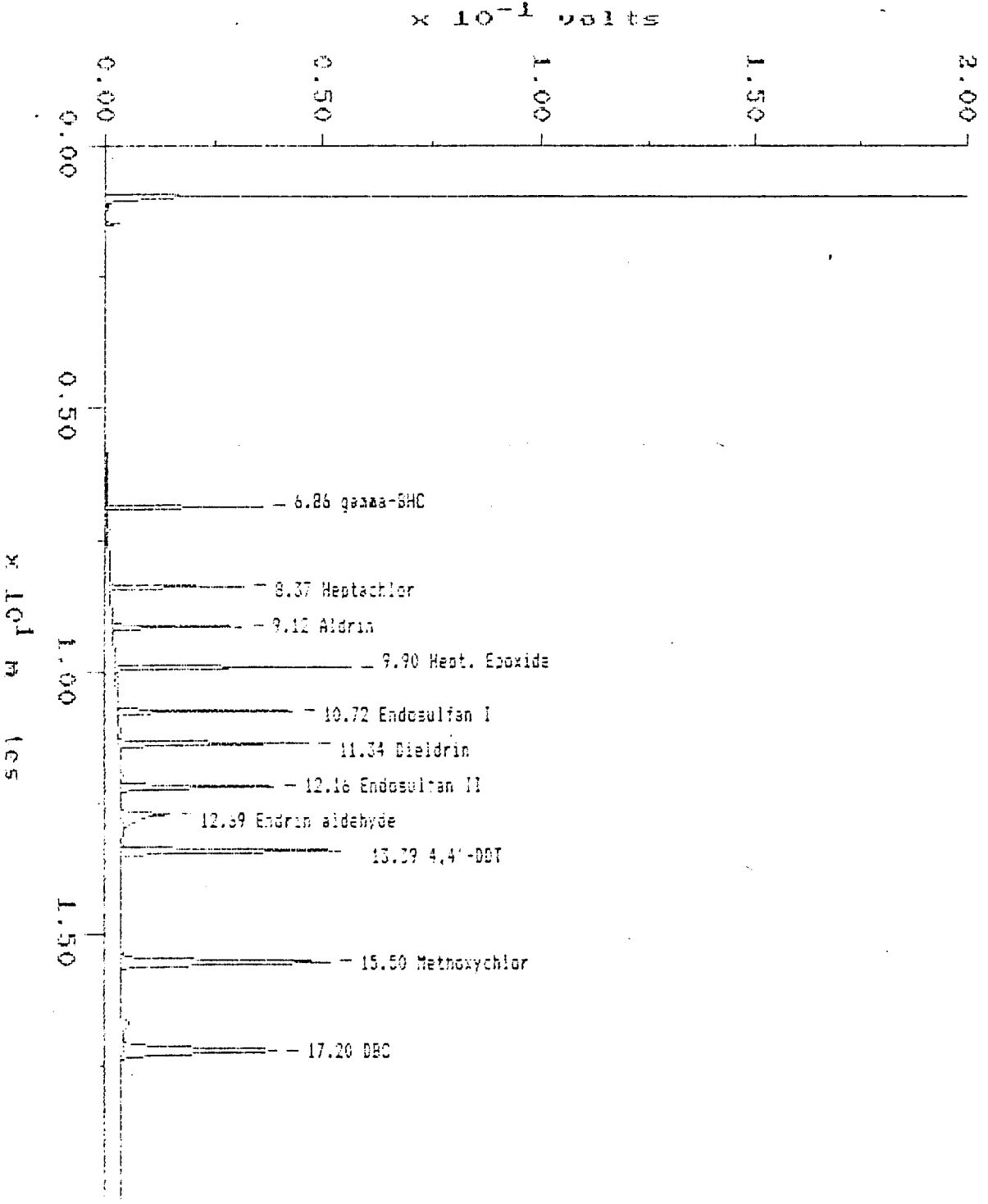
DETECTOR: ECD-18

PK#	Component Name	Retention Time (minutes)	Peak Area	Solution Conc (ng/ul)	Type	Code	Base
1	Sets-BND	6.673	191331	0.12021	BB	EXT	AREA
2	delta-BND	7.260	36754	0.0000	BB	EXT	AREA
3	Hexachlor	8.367	27831	0.0050	BP	EXT	AREA
4		8.524	13264		PB		
5	Aldrin	9.108	41112	0.0070	BB	EXT	AREA
6	Heptachlor	9.685	120196	0.0000	BB	EXT	AREA
7	gamma-Chlorane	10.435	53039	0.0000	BB	EXT	AREA
8	Endosulfan I	10.714	59180	0.0000	BP	EXT	AREA
9	gamma-BHC	11.065	151250	0.0020	PP	EXT	AREA
10	Dieldrin	11.323	170648	0.0000	PB	EXT	AREA
11	gamma-BHC	11.990	227394	Invalid	BP	EXT	AREA
12	Endosulfan II	12.156	93699	0.0000	PP	EXT	AREA
13		12.445	15052		PP		
14	Endrin alcohol	12.635	91324	0.0000	PP	EXT	AREA
15		12.804	67204		PP		
16		13.053	31399		PP		
17	gamma-BHC AR1254 cly	13.376	78434	0.0041 1.000 cly	PP	EXT	AREA
18	Endosulfan	13.574	156036	0.0000	PB	EXT	AREA
19		14.623	39431		BB		
20	Methoxychlor	15.591	53481	0.0000	BB	EXT	AREA
21		16.346	28370		BB		
22	BHC	17.139	111334	0.113111	BB	EXT	AREA
TOTAL			2667710	0.639611			

! Result calculation based on peak response more than 10% outside of calibration range.

! Result calculation based on peak response ratio outside of calibration range.

Sample: INDA.0 Channel: EDD-18 Filename: BNSA2
Acquired: 13-SEP-89 16:15 Method: C:\MAASDATA\B\SEPT\890912B Operator: CGJ
Inj Vol: 2.00
Comments: CONFIRMATION DB-5 MEGACORE 3400-1B ACUREX ERC 8980CLP CASE #8908117



MAXIMA 820 CUSTOM REPORT

Printed: 13-SEP-1989 17:41:12

SAMPLE: INCA,0

#24 in Method: 09/12/89,CAN

Acquired: 13-SEP-1989 16:15

Rate: 2.3 points/sec

Duration: 19.998 minutes

Operator: CGJ

Type: UNKN

Instrument: 3400-18

Filename: ENDA2

Index: 1

Injection Volume: 2.0

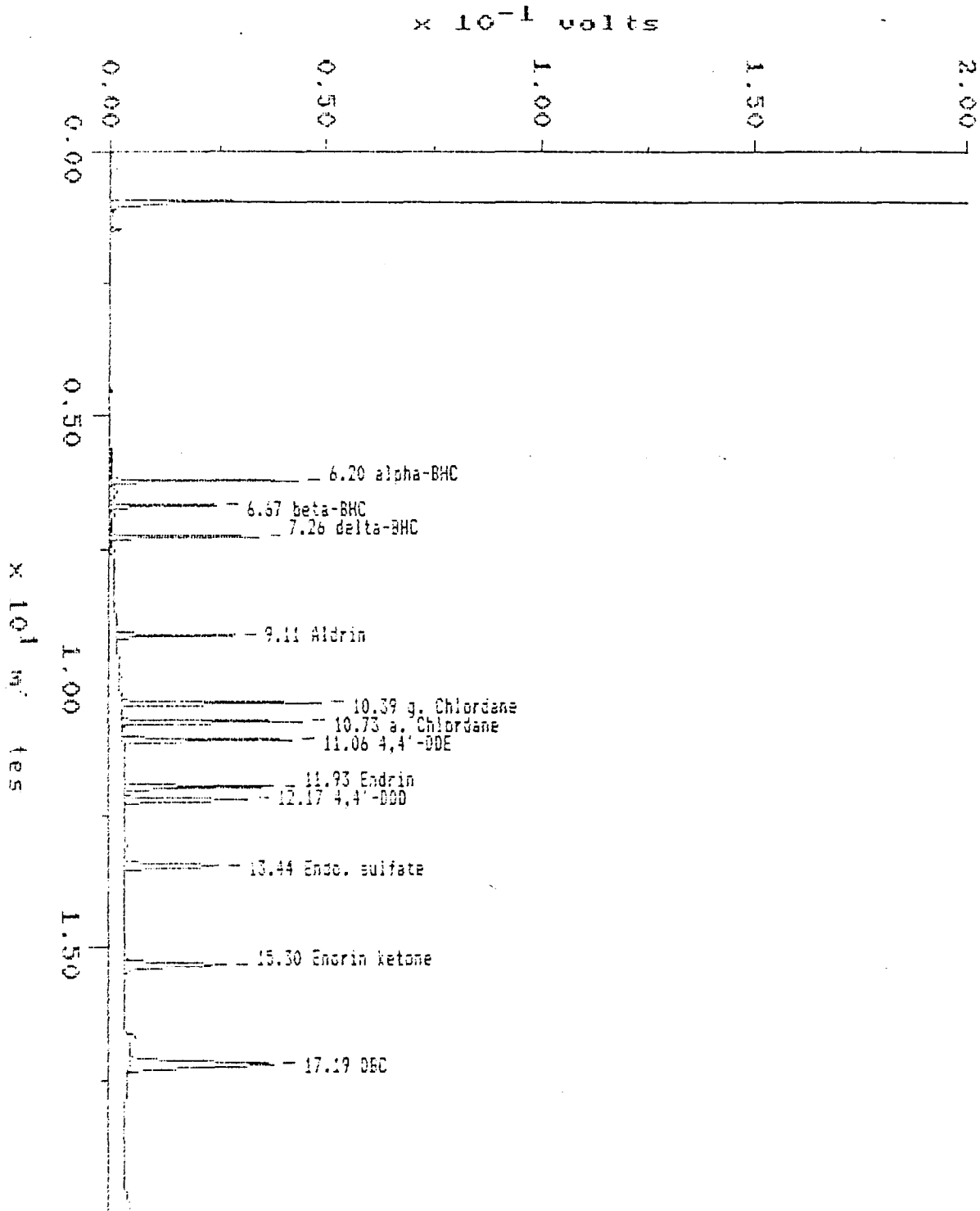
DETECTOR: ECD-15

PK#	Component Name	Retention Time (minutes)	Peak Area	Solution Conc (ng/ul)	Type	Code	Base
1	gamma-BHC	6.857	96046	0.0188	BB	EXT	AREA
2	Heptachlor	8.367	90084	0.0190	BB	EXT	AREA
3	Aldrin	9.115	88754	0.0205	BB	EXT	AREA
4	Hept. Epoxide	9.900	165948	0.0393	BB	EXT	AREA
5	Endosulfan I	10.721	137037	0.0391	BB	EXT	AREA
6	Dieldrin	11.337	155446	0.0797	BB	EXT	AREA
7	Endosulfan II	12.159	149694	0.04121	BB	EXT	AREA
8	Endrin aldehyde	12.694	85247	0.0392	BB	EXT	AREA
9	4,4'-DDT	13.391	253701	0.0780	BB	EXT	AREA
10	Methoxychlor	15.503	304674	0.1953	BB	EXT	AREA
11	BHC	17.197	280545	0.10191	BB	EXT	AREA
TOTAL			1817177	0.63201			

! Result calculation based on peak response ratio outside of calibration range.

Sample: INDB.G Channel: ECD-18
Acquired: 13-SEP-99 15:39 Method: C:\MSDCHEM\DATA\13\SEPT\99\99128
Inj Vol: 2.00
Comments: CONFIRMATION DB-5 MEGAPORE 3400-1B ACUREX ERD 2080CLP CASE #2909117

Filename: BK082
Operator: CGJ



MAXIMA 820 CUSTOM REPORT

Printed: 13-SEP-1989 17:44:21

SAMPLE: INDB,3

#25 in Method: 09/12/69,C,H

Acquired: 13-SEP-1989 16:39

Rate: 2.3 points/sec

Duration: 19.998 minutes

Operator: CGJ

Type: UNKN

Instrument: 3400-18

Filename: BND82

Index: 1

Injection Volume: 2.0

DETECTOR: ECD-18

PK#	Component Name	Retention Time (minutes)	Peak Area	Solution Conc (ng/ul)	Type	Code	Base
1	alpha-BHC	6.204	116880	0.0221!!	BB	EXT	AREA
2	beta-BHC	6.673	64341	0.0404!	BB	EXT	AREA
3	delta-BHC	7.260	69669	0.0194	BB	EXT	AREA
4	Aldrin	9.108	83193	0.0103	BB	EXT	AREA
5	α-Chlordane	10.391	152997	0.0393	BB	EXT	AREA
6	β-Chlordane	10.727	145564	0.0392	BB	EXT	AREA
7	4,4'-DDE	11.059	139024	0.0393	BB	EXT	AREA
8	Endrin	11.931	139494	0.0393	BB	EXT	AREA
	4,4'-DDD	12.173	115236	0.0395	BB	EXT	AREA
	Endo. sulfate	13.442	104491	0.0743	BB	EXT	AREA
11	Endrin ketone	15.305	137162	0.0395	BB	EXT	AREA
12	DDE	17.189	266466	0.0953	BB	EXT	AREA
TOTAL			1551862	0.5081!!			

!! Result calculation based on peak response more than 10% outside of calibration range.

! Result calculation based on peak response ratio outside of calibration range.

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK1

Name: ACUREX Contract: _____

Lab Code: ACUREX Case No.: 08117 SAS No.: _____ SDG No.: 759

Matrix: (soil/water) WATER Lab Sample ID: 759BLK1C

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ___ dec. ___ Date Extracted: 08/31/89

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 09/13/89

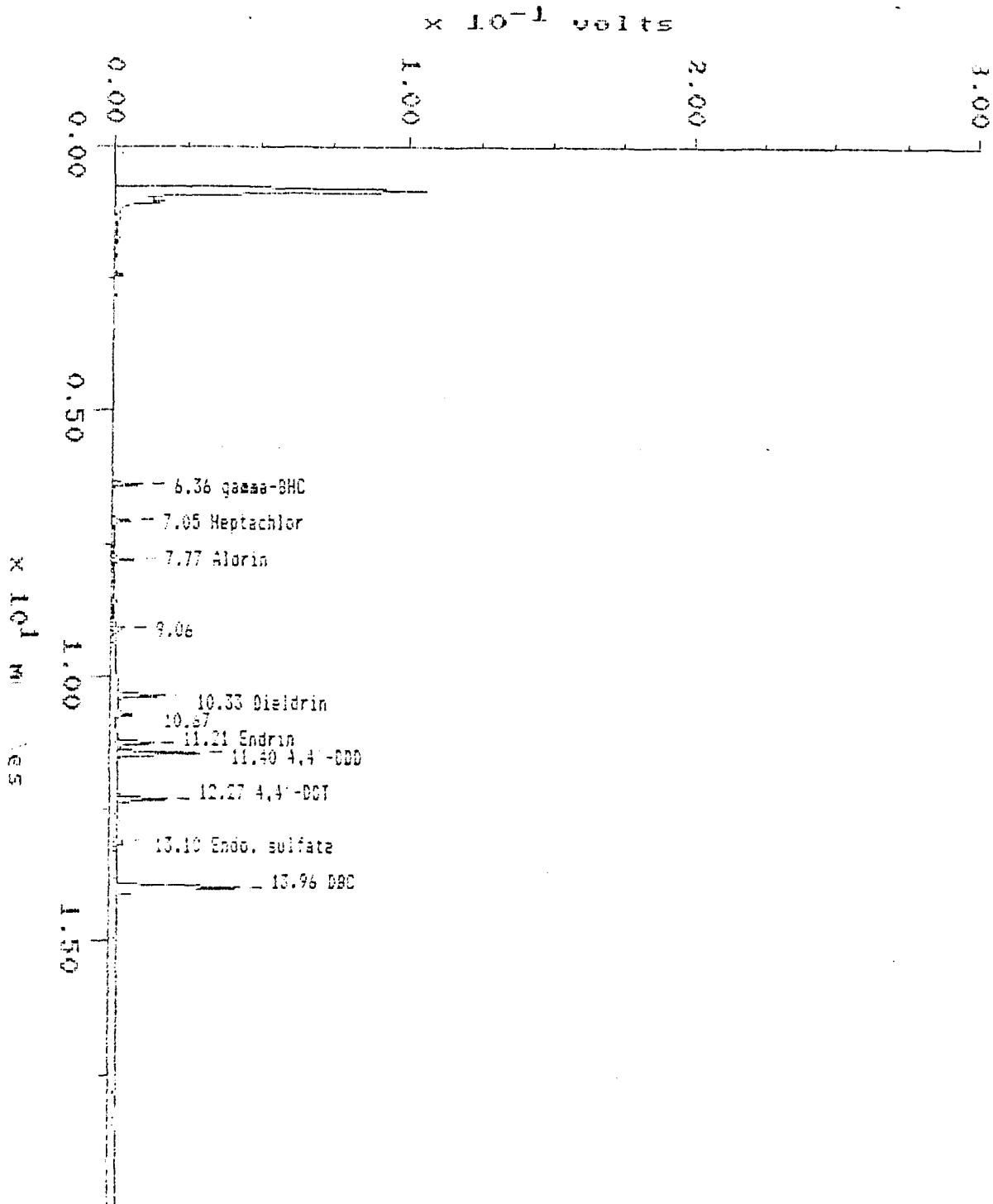
GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO. COMPOUND Q

319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.038	J
76-44-8	Heptachlor	0.037	J
309-00-2	Aldrin	0.038	J
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.11	
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.19	
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	a. Chlordane	0.50	U
5103-74-2	g. Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Sample: 7598LK1.C.SLX Channel: ECD-1A Filename: 08117M26
 Acquired: 13-SEP-89 14:15 Method: C:\MAX\DATA\ANSEPT\390912B Operator: CSJ
 Dilution: 1 : 1.000 Amount: 1.000 Inj Vol: 2.00
 Comments: PRIMARY COLUMN DB-608 MEGA30RE 3400-1A ACUREX ERG 8030CLP CASE# 8908117



MAXIMA 820 CUSTOM REPORT

Printed: 13-SEP-1989 16:17:32

SAMPLE: 7598LK1,C,,BLK

#19 in Method: 09/12/87,P,N

Acquire: 13-SEP-1989 14:15

Rate: 2.3 points/sec

Duration: 19.998 minutes

Operator: GBJ

Type: UNKN

Instrument: 3400-1A

Filename: 08117MB6

Index: Disk

Injection Volume: 2.0

Dilution: 1.000

Amount: 1.300

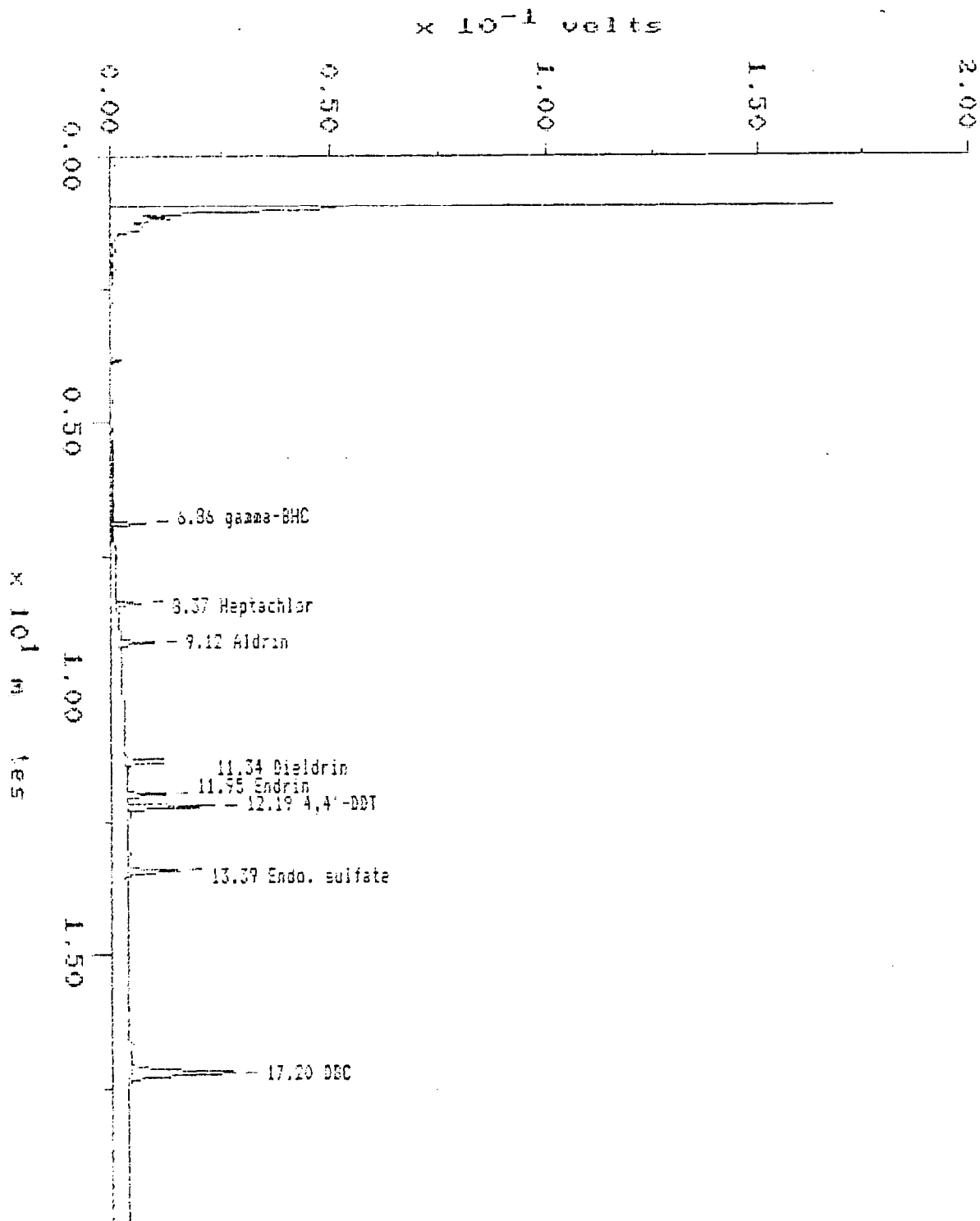
DETECTOR: EDD-1A

PK#	Component Name	Retention Time (minutes)	Peak Area	Solution Conc (ng/ul)	Type	Code	Base
1	gamma-BHC	6.358	28555	0.0038	BB	EXT	AREA
2	Heptachlor	7.055	31202	0.0037	BB	EXT	AREA
3	Aldrin	7.766	24010	0.0036	BB	EXT	AREA
4		9.064	15028		BB		
5	dieldrin	10.325	57584	0.0105	BB	EXT	AREA
6		10.670	18437		BB		
7	Endrin	11.205	48035	0.0107	BB	EXT	AREA
8	4,4'-DDE	11.403	114670	0.0311	BB	EXT	AREA
9	4,4'-DDT	12.269	30544	0.0185	BB	EXT	AREA
10	Enop. sulfate	13.097	16964	0.0041	BB	EXT	AREA
11	DDE	13.963	277142	0.0722	BB	EXT	AREA
TOTAL			702151	0.1585			

Sample: 7598LX1.C.BLX
Acquired: 13-SEP-89 14:15
Dilution: 1 : 1.000
Comments: CONFIRMATION DB-5 MEGABORE 3400-18 ACUREX ERD 8080CLP CASE 18908117

Channel: ECD-18
Method: C:\MAX\DATA\18\SEPT\89\99128
Amount: 1.000

Filename: 98115M86
Operator: CGJ
Inj Vol: 2.00



MAXIMA 820 CUSTOM REPORT

Printed: 13-SEP-1989 16:55:17

SAMPLE: 7592LX1,C,,BLK

#19 in Method: 09/12.89,C,N
 Acquired: 13-SEP-1989 14:15
 Rate: 2.3 points/sec
 Duration: 19.998 minutes
 Operator: CSJ

Type: UNKN
 Instrument: 3400-1B
 Filename: 88115MS5
 Index: Disk
 Injection Volume: 2.0
 Dilution: 1.000
 Amount: 1.000

DETECTOR: ECD-18

PK#	Component Name	Retention Time (minutes)	Peak Area	Solution Conc (ng/ul)	Type	Code	Base
1	gamma-BHC	6.957	19210	0.0036	BB	EXT	AREA
2	Heptachlor	8.375	15562	0.0033	BB	EXT	AREA
3	Aldrin	9.115	30829	0.0071	BB	EXT	AREA
4	Dieldrin	11.337	53383	0.0129	BB	EXT	AREA
5	Endrin	11.946	35926	0.0104	BP	EXT	AREA
6	4,4'-DDE	12.168	79176	0.0243	PB	EXT	AREA
7	Endo. sulfate	13.391	57289	0.0410	BB	EXT	AREA
8	DBC	17.197	186461	0.0577	BB	EXT	AREA
TOTAL			478832	0.1704			

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK2

Lab Name: ACUREX Contract: _____

Lab Code: ACUREX Case No.: 08117 SAS No.: _____ SDG No.: 759

Matrix: (soil/water) SOIL Lab Sample ID: 759BLK2C

Sample wt/vol: 1.0 (g/mL) G Lab File ID: _____

Level: (low/med) MED Date Received: _____

% Moisture: not dec. _____ dec. _____ Date Extracted: 09/12/89

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 09/13/89

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

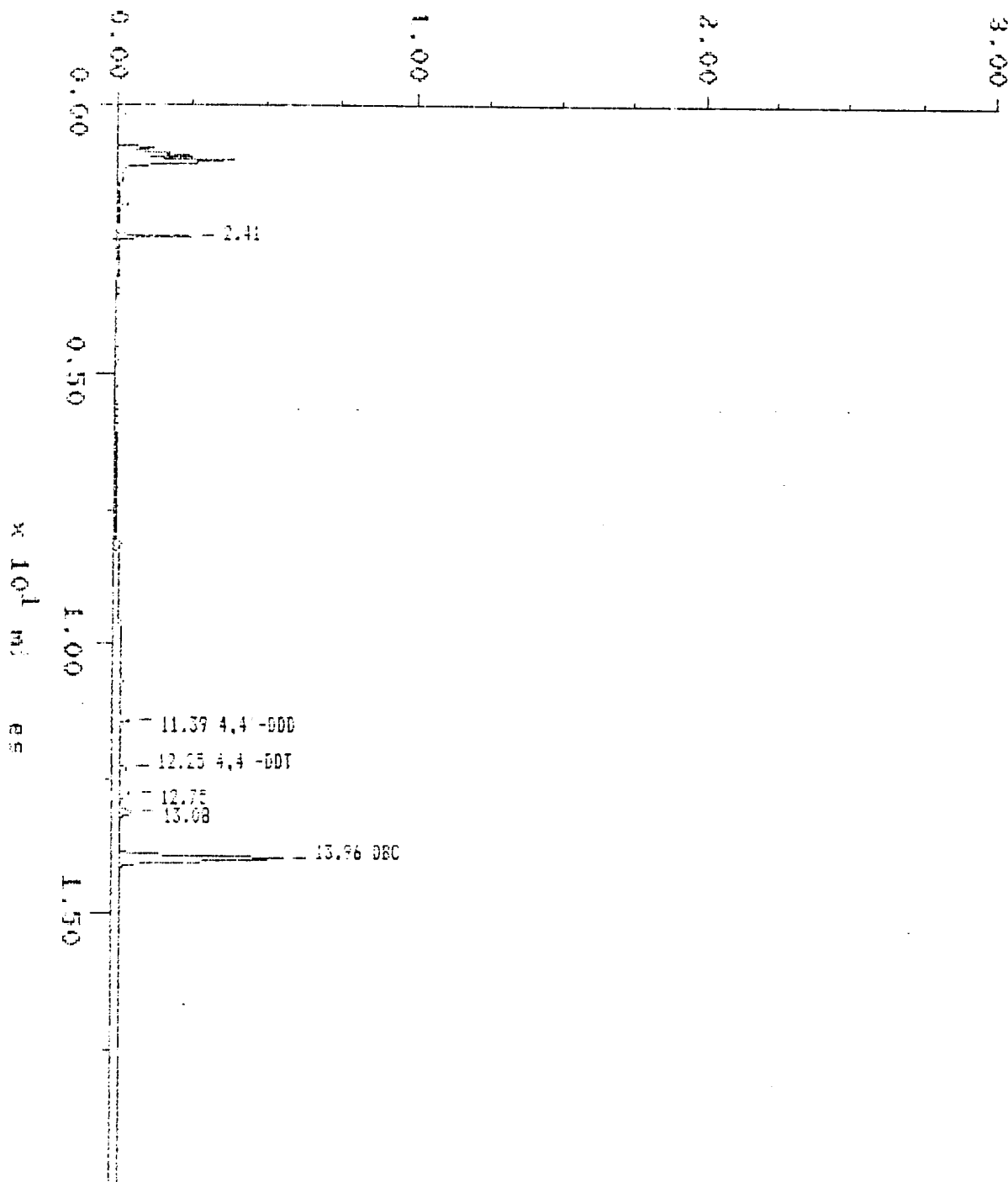
CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
319-84-6	alpha-BHC	120	U
319-85-7	beta-BHC	120	U
319-86-8	delta-BHC	120	U
58-89-9	gamma-BHC (Lindane)	120	U
76-44-8	Heptachlor	120	U
309-00-2	Aldrin	120	U
1024-57-3	Heptachlor epoxide	120	U
959-98-8	Endosulfan I	120	U
60-57-1	Dieldrin	240	U
72-55-9	4,4'-DDE	240	U
72-20-8	Endrin	240	U
33213-65-9	Endosulfan II	240	U
72-54-8	4,4'-DDD	240	U
1031-07-8	Endosulfan sulfate	240	U
50-29-3	4,4'-DDT	240	U
72-43-5	Methoxychlor	1200	U
53494-70-5	Endrin ketone	240	U
5103-71-9	a. Chlordane	1200	U
5103-74-2	g. Chlordane	1200	U
8001-35-2	Toxaphene	2400	U
12674-11-2	Aroclor-1016	1200	U
11104-28-2	Aroclor-1221	1200	U
11141-16-5	Aroclor-1232	1200	U
53469-21-9	Aroclor-1242	1200	U
12672-29-6	Aroclor-1248	1200	U
11097-69-1	Aroclor-1254	2400	U
11096-82-5	Aroclor-1260	2400	U

Sample: 7598LK2.C.,BLA Channel: ECD-1A
Acquired: 13-SEP-89 10:54 Method: C:\MAX\DATA\1A\SEPT138909128
Dilution: 1 : 1.000 Amount: 1.000
Comments: PRIMARY COLUMN DB-503 MEGAPORE 3400-1A ACUREX ERC 8090CLP CASE# 8703117

Filename: 03117M85
Operator: GJJ
Inj Vol: 2.00

$\times 10^{-1}$ volts



MAXIMA 820 CUSTOM REPORT

Printed: 13-SEP-1989 16:03:32

SAMPLE: 759BLK2,C.,BLK

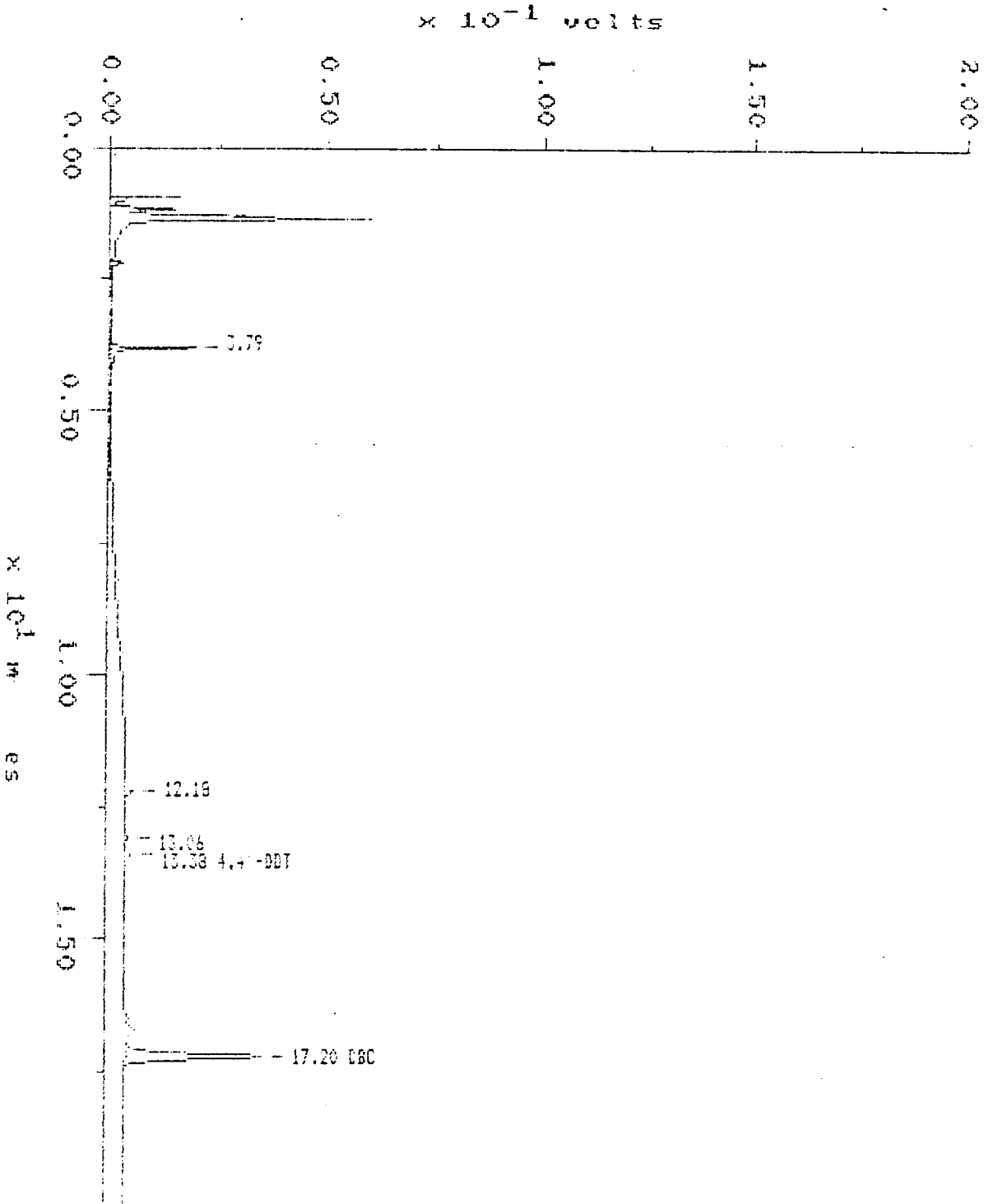
#13 in Method: 09/12/89,P,N
 Acquired: 13-SEP-1989 10:54
 Rate: 2.3 points/sec
 Duration: 19.998 minutes
 Operator: CGJ

Type: JUNK
 Instrument: 3400-1A
 Filename: 09117MB5
 Index: Disk
 Injection Volume: 2.0
 Dilution: 1.000
 Accunt: 1.000

DETECTOR: ECD-1A

PK#	Component Name	Retention Time (minutes)	Peak Area	Solution Conc (ng/ul)	Type	Code	Base
1		2.405	81113		BB		
2	4.4-055 not comb	11.369	10757	0.0029 DL	BB	EXT	AREA
3	4.4-057 DL	12.254	9407	0.0019 DL	BB	EXT	AREA
4		12.753	16676		BB		
5		13.983	21940		BB		
6	D6C	13.955	358687	0.0934	BB	EXT	AREA
			497708	0.0983			

Sample: 7578LX2.C.BLK Channel: ECD-1B Filename: 80117M85
Acquired: 13-SEP-89 10:55 Method: C:\MAX\DATA\18\SEPT\89\89128 Operator: CSJ
Dilution: 1 : 1.000 Amount: 1.000 Inj Vol: 2.00
Comments: CONFIRMATION DB-5 MEGABORE 3400-1B ACUREX EAD 2080CLP CASE #3908117



MAXIMA 820 CUSTOM REPORT

Printed: 13-SEP-1989 15:37:55

SAMPLE: 759BLK2,C,,BLK

#13 in Method: 09/12/89,C,N
 Acquired: 13-SEP-1989 10:55
 Rate: 2.3 points/sec
 Duration: 19.993 minutes
 Operator: CGJ

Type: UNKN
 Instrument: 3400-18
 Filename: 88117M85
 Index: Disk
 Injection Volume: 2.0
 Dilution: 1.000
 Amount: 1.000

DETECTOR: ECD-18

PK#	Component Name	Retention Time (minutes)	Peak Area	Solution Conc (ng/ul)	Type	Code	Base
1		3.791	69513		BB		
2		12.181	7138		BB		
3		13.061	3757		BB		
4	1,1-DBT DL CGJ	13.363	5750	0.0015 DL CGJ	BB	EXT	AREA
5	DEC	17.204	246558	0.0875	BB	EXT	AREA
TOTAL			332715	0.0913			

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

759MS

I Name: ACUREX Contract: _____

Lab Code: ACUREX Case No.: 08117 SAS No.: _____ SDG No.: 759

Matrix: (soil/water) WATER Lab Sample ID: 759MSC

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 08/29/89

% Moisture: not dec. ___ dec. ___ Date Extracted: 08/31/89

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 09/13/89

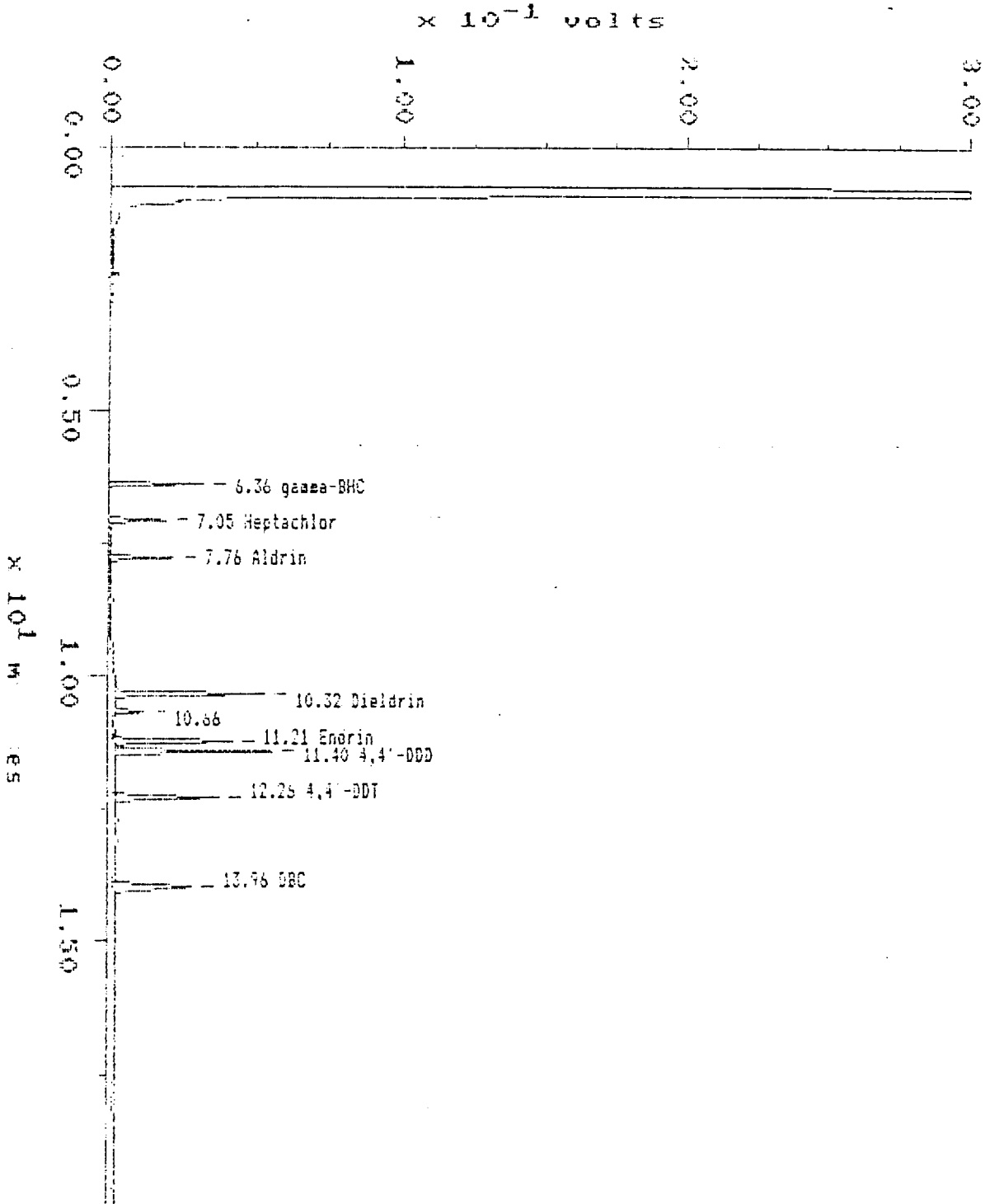
GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO. COMPOUND Q

319-84-6-----	alpha-BHC	0.050	U
319-85-7-----	beta-BHC	0.050	U
319-86-8-----	delta-BHC	0.050	U
58-89-9-----	gamma-BHC (Lindane)	0.050	U
76-44-8-----	Heptachlor	0.050	U
309-00-2-----	Aldrin	0.050	U
1024-57-3-----	Heptachlor epoxide	0.050	U
959-98-8-----	Endosulfan I	0.050	U
60-57-1-----	Dieldrin	0.10	U
72-55-9-----	4,4'-DDE	0.10	U
72-20-8-----	Endrin	0.10	U
33213-65-9-----	Endosulfan II	0.10	U
72-54-8-----	4,4'-DDD	0.10	U
1031-07-8-----	Endosulfan sulfate	0.10	U
50-29-3-----	4,4'-DDT	0.10	U
72-43-5-----	Methoxychlor	0.50	U
53494-70-5-----	Endrin ketone	0.10	U
5103-71-9-----	a. Chlordane	0.50	U
5103-74-2-----	g. Chlordane	0.50	U
8001-35-2-----	Toxaphene	1.0	U
12674-11-2-----	Aroclor-1016	0.50	U
11104-28-2-----	Aroclor-1221	0.50	U
11141-16-5-----	Aroclor-1232	0.50	U
53469-21-9-----	Aroclor-1242	0.50	U
12672-29-6-----	Aroclor-1248	0.50	U
11097-69-1-----	Aroclor-1254	1.0	U
11096-82-5-----	Aroclor-1260	1.0	U

Sample: 756MS.C.C.C Channel: EDD-1A Filename: 08117M1
Acquired: 13-SEP-59 14:39 Method: C:\MAXDATA\1\XSEPT\890912B Operator: CSJ
Dilution: 1 : 1.000 Amount: 1.000 Inj Vol: 2.00
Comments: PRIMARY COLUMN DB-608 MEGABORE 3400-1A ACUREX ERD 8090CLP CASE# 8908117



MAXIMA 820 CUSTOM REPORT

Printed: 13-SEP-1989 16:19:13

SAMPLE: 759MS.D.,D.C

#20 in Method: 09/12/89,P.W
 Acquired: 13-SEP-1989 14:37
 Rate: 2.3 points/sec
 Duration: 19.998 minutes
 Operator: CGJ

Type: UNKN
 Instrument: 3400-1A
 Filename: 08117M1
 Index: Disk
 Injection Volume: 2.0
 Dilution: 1.000
 Amount: 1.000

DETECTOR: ECD-1A

PK#	Component Name	Retention Time (minutes)	Peak Area	Solution Conc (ng/ul)	Type	Code	Base
1	gamma-BHC	6.356	95831	0.0128	BB	EXT	AREA
2	Heptachlor	7.047	66204	0.0114	BB	EXT	AREA
3	Aldrin	7.759	75354	0.0119	BB	EXT	AREA
4	Dieldrin	10.316	187953	0.0343	BB	EXT	AREA
5		10.653	33805		BB		
6	Endrin	11.205	165252	0.0373	BB	EXT	AREA
7	4,4'-DDD	11.376	209232	0.0568 !!	BB	EXT	AREA
	4,4'-DDT	12.261	163547	0.0376	BB	EXT	AREA
	DDE	13.955	159277	0.0441	BB	EXT	AREA
TOTAL			1167454	0.2463 !!			

!! Result calculation based on peak response more than 10% outside of calibration range.

Sample: 759MS.D\0.0

Channel: ECD-18

Filename: 89117M1

Acquired: 13-SEP-89 14:39

Method: C:\MANT\DATA1\BASEPT\8909129

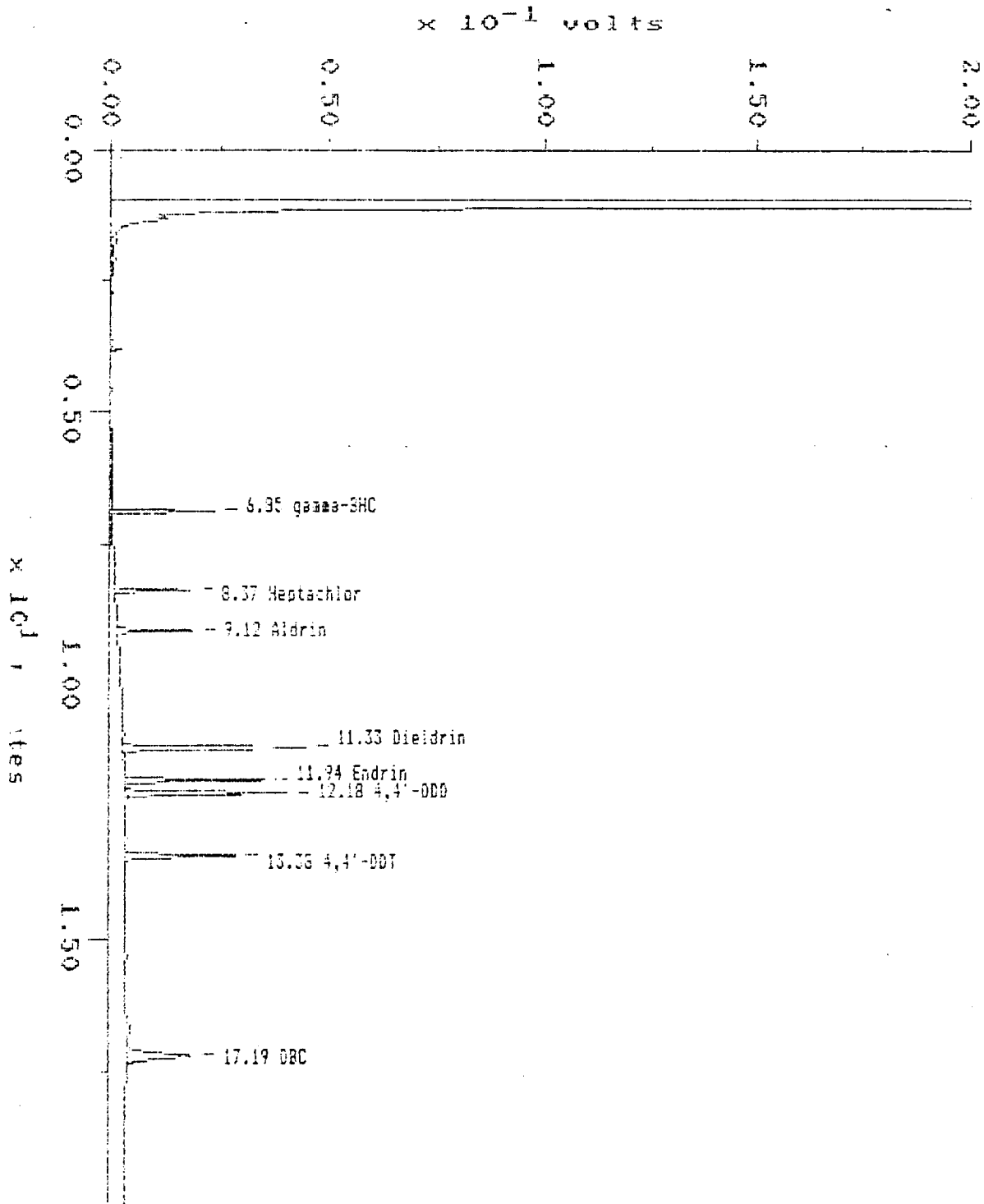
Operator: CSJ

Dilution: 1 : 1.000

Amount: 1.000

Inj Vol: 2.00

Comments: CONFIRMATION DB-9 MEGAORE 3400-18 ACUREX ERO 8050CLP CASE #8908117



MAXIMA 820 CUSTOM REPORT

Printed: 13-SEP-1989 16:58:33

SAMPLE: 759MS,C,,C,C

#20 in Method: 09/12/89,C,N
 Acquired: 13-SEP-1989 14:39
 Rate: 2.3 points/sec
 Duration: 19.998 minutes
 Operator: CGJ

Type: UNKN
 Instrument: 3400-1B
 Filename: 85117M1
 Index: Disk
 Injection Volume: 2.0
 Dilution: 1.000
 Assunt: 1.000

DETECTOR: ECD-1B

PX#	Component Name	Retention Time (minutes)	Peak Area	Solution Conc (ng/ul)	Type	Code	Base
1	gamma-BHC	6.849	62826	0.0123	SB	EXT	AREA
2	Heptachlor	8.367	50239	0.0106	SB	EXT	AREA
3	Aldrin	9.115	51874	0.0120	SB	EXT	AREA
4	Dieldrin	11.330	165043	0.0396	SB	EXT	AREA
5	Endrin	11.939	129631	0.0362	SB	EXT	AREA
6	4,4'-DDD	12.181	153169	0.0525!!	FB	EXT	AREA
7	4,4'-DDT	13.383	120413	0.0370	SB	EXT	AREA
8	DDC	17.189	112785	0.0410	SB	EXT	AREA
TOTAL			845030	0.2412!!			

!! Result calculation based on peak response more than 10% outside of calibration range.

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

759MSD

Lab Name: ACUREX Contract: _____

Lab Code: ACUREX Case No.: 08117 SAS No.: _____ SDG No.: 759

Matrix: (soil/water) WATER Lab Sample ID: 759MSDC

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 08/29/89

% Moisture: not dec. ___ dec. ___ Date Extracted: 08/31/89

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 09/13/89

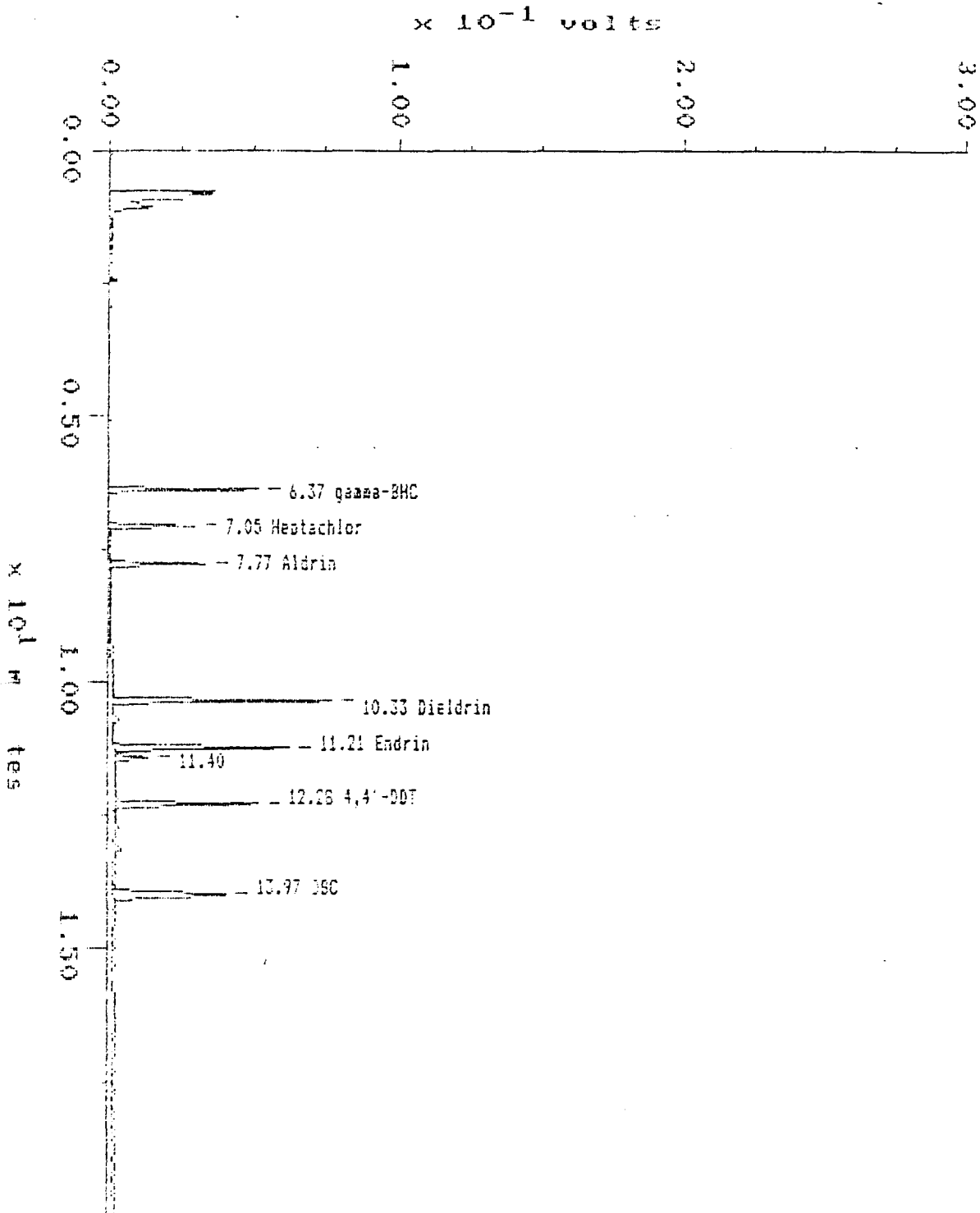
GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

319-84-6-----alpha-BHC	0.050	U
319-85-7-----beta-BHC	0.050	U
319-86-8-----delta-BHC	0.050	U
58-89-9-----gamma-BHC (Lindane)	0.050	U
76-44-8-----Heptachlor	0.050	U
309-00-2-----Aldrin	0.050	U
1024-57-3-----Heptachlor epoxide	0.050	U
959-98-8-----Endosulfan I	0.050	U
60-57-1-----Dieldrin	0.10	U
72-55-9-----4,4'-DDE	0.10	U
72-20-8-----Endrin	0.10	U
33213-65-9-----Endosulfan II	0.10	U
72-54-8-----4,4'-DDD	0.10	U
1031-07-8-----Endosulfan sulfate	0.10	U
50-29-3-----4,4'-DDT	0.10	U
72-43-5-----Methoxychlor	0.50	U
53494-70-5-----Endrin ketone	0.10	U
5103-71-9-----a. Chlordane	0.50	U
5103-74-2-----g. Chlordane	0.50	U
8001-35-2-----Toxaphene	1.0	U
12674-11-2-----Aroclor-1016	0.50	U
11104-28-2-----Aroclor-1221	0.50	U
11141-16-5-----Aroclor-1232	0.50	U
53469-21-9-----Aroclor-1242	0.50	U
12672-29-6-----Aroclor-1248	0.50	U
11097-69-1-----Aroclor-1254	1.0	U
11096-82-5-----Aroclor-1260	1.0	U

Sample: 759MSD.C.C.C Channel: EDD-1A Filename: 0311731
Acquired: 13-SEP-89 15:03 Method: C:\MAX\DATA\1\SEPT\3909128 Operator: CGJ
Dilution: 1 : 1.000 Amount: 1.000 Inj Vol: 2.00
Comments: PRIMARY COLUMN DB-608 MEGABORE 3400-1A ACUREX ERO 8080CLP CASE# 3909117



MAXIMA 820 CUSTOM REPORT

Printed: 13-SEP-1989 16:21:09

SAMPLE: 759NSD,C,,C,C

#21 in Method: 09/12/89,P.N
 Acquired: 13-SEP-1989 15:03
 Rate: 2.3 points/sec
 Duration: 19.998 minutes
 Operator: CSJ

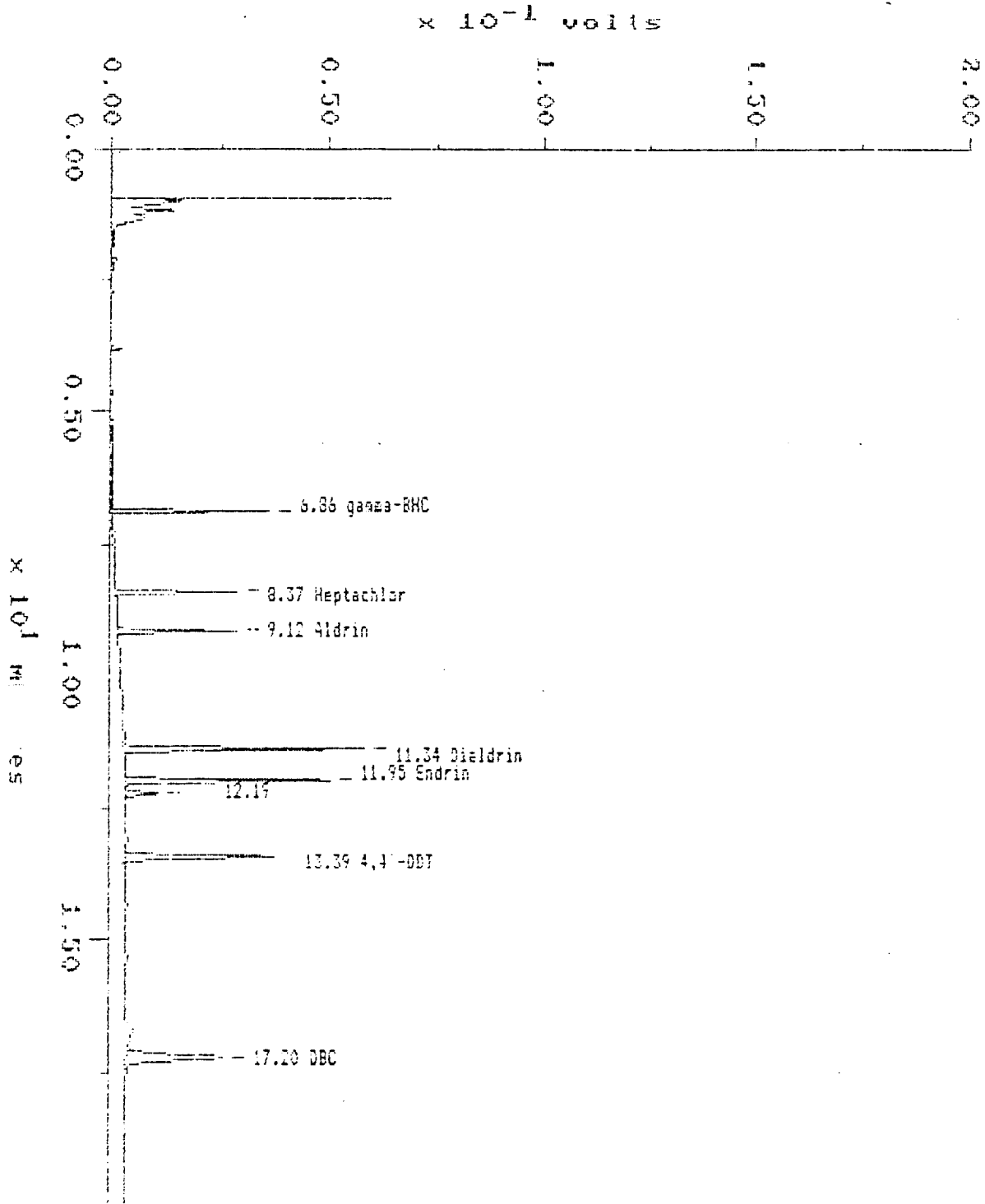
Type: UNKN
 Instrument: 3400-1A
 Filename: 02117S1
 Index: Disk
 Injection Volume: 2.0
 Dilution: 1.000
 Amount: 1.000

DETECTOR: ECD-1A

PK#	Component Name	Retention Time (minutes)	Peak Area	Solution Conc (ng/ul)	Type	Code	Base
1	gamma-BHC	6.365	151377	0.02011	BB	EXT	AREA
2	Heptachlor	7.055	102226	0.0176	BB	EXT	AREA
3	Alorin	7.766	112944	0.0179	BB	EXT	AREA
4	Dieldrin	10.333	275492	0.030211	BB	EXT	AREA
5	Endrin	11.213	248606	0.026211	BB	EXT	AREA
6		11.403	43526		BB		
7	4,4'-DDT	12.276	229425	0.0229	BB	EXT	AREA
8	DDC	13.970	251692	0.0255	BB	EXT	AREA
TOTAL			1415487	0.200311			

!! Result calculation based on peak response more than 10% outside of calibration range.
 ! Result calculation based on peak response ratio outside of calibration range.

Sample: 759MSD.C.1.0.0 Channel: ECD-18 Filename: 8811761
Acquired: 13-SEP-87 15:03 Method: C:\MSD\DATA1B\SEPT\8909125 Operator: GBJ
Dilution: 1 : 1.000 Amount: 1.000 Inj Vol: 2.00
Comments: CONFIRMATION DB-5 MEGA50RE 3400-1B ACUREX ERC 8080CLP CABE #3909117



MAXIMA 820 CUSTOM REPORT

Printed: 13-SEP-1989 17:05:47

SAMPLE: 759MSD,C,C,C

#21 in Method: 09/12/89,C,N
 Acquired: 13-SEP-1989 15:03
 Rate: 2.3 points/sec
 Duration: 19.998 minutes
 Operator: CGJ

Type: UNKN
 Instrument: 3400-18
 Filename: 88117S1
 Index: Disk
 Injection Volume: 2.0
 Dilution: 1.000
 Amount: 1.000

DETECTOR: ECD-18

PK#	Component Name	Retention Time (minutes)	Peak Area	Solution Conc. (ng/ul)	Type	Code	Base
1	gamma-BHC	6.864	98110	0.0192	BB	EXT	AREA
2	Heptachlor	8.375	79806	0.0168	BB	EXT	AREA
3	Aldrin	9.123	77992	0.0180	BB	EXT	AREA
4	Dieldrin	11.345	211958	0.05031	BB	EXT	AREA
5	Endrin	11.946	192571	0.05421	BP	EXT	AREA
6		12.188	30865		PP		
7	4,4'-DDE	13.391	165357	0.0508	BB	EXT	AREA
8	DDE	17.204	169992	0.0517	BB	EXT	AREA
TOTAL			1026672	0.27171			

!! Result calculation based on peak response more than 10% outside of calibration range.

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

760MS

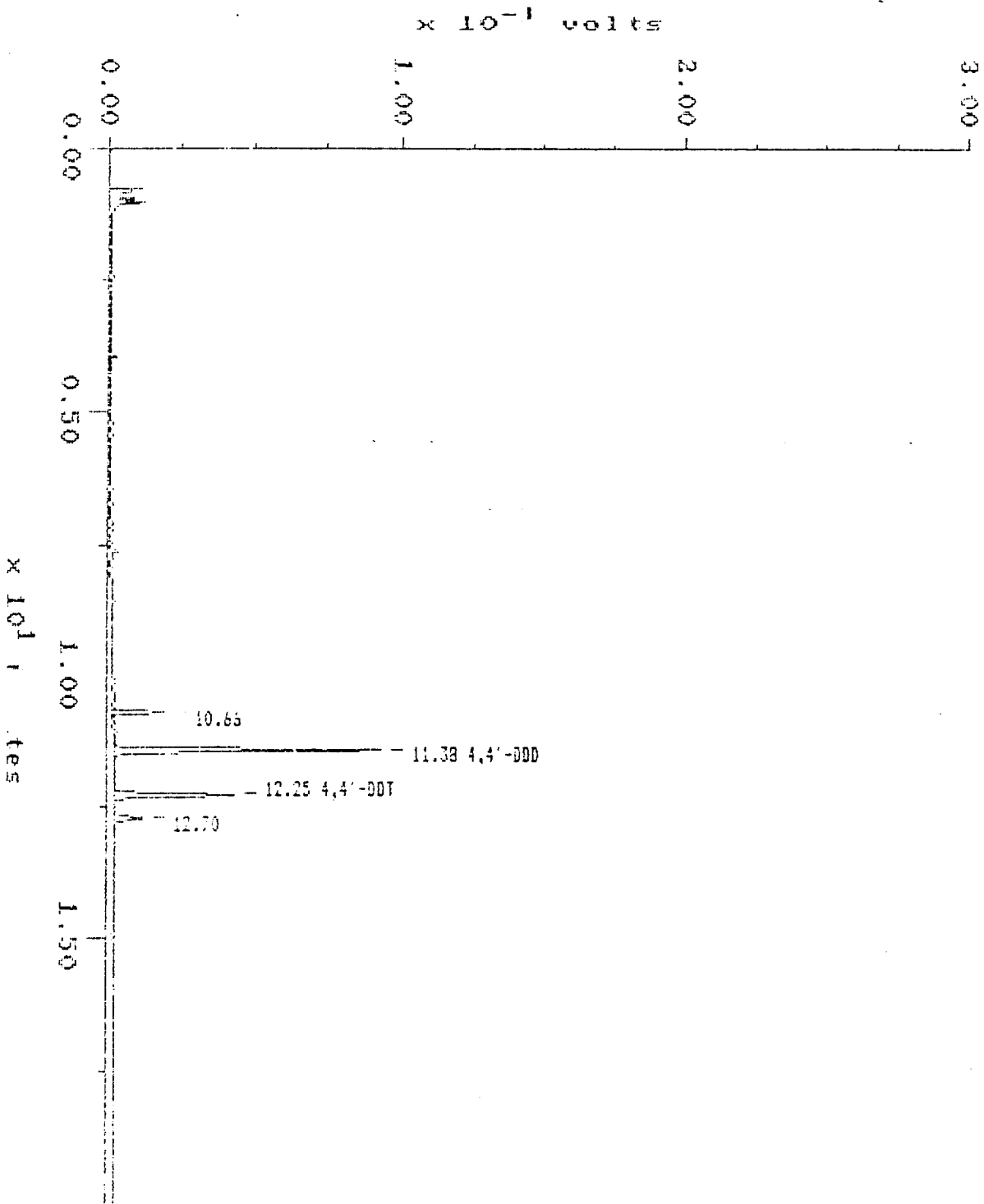
Lab Name: ACUREX Contract: _____
 Lab Code: ACUREX Case No.: 08117 SAS No.: _____ SDG No.: 759
 Matrix: (soil/water) SOIL Lab Sample ID: 760MSC
 Sample wt/vol: 1.0 (g/mL) G Lab File ID: _____
 Level: (low/med) MED Date Received: 08/29/89
 % Moisture: not dec. 0 dec. _____ Date Extracted: 09/12/89
 Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 09/13/89
 GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1000

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

319-84-6-----	alpha-BHC	120000	U
319-85-7-----	beta-BHC	120000	U
319-86-8-----	delta-BHC	120000	U
58-89-9-----	gamma-BHC (Lindane)	120000	U
76-44-8-----	Heptachlor	120000	U
309-00-2-----	Aldrin	120000	U
1024-57-3-----	Heptachlor epoxide	120000	U
959-98-8-----	Endosulfan I	120000	U
60-57-1-----	Dieldrin	240000	U
72-55-9-----	4,4'-DDE	240000	U
72-20-8-----	Endrin	240000	U
33213-65-9-----	Endosulfan II	240000	U
72-54-8-----	4,4'-DDD	1000000	
1031-07-8-----	Endosulfan sulfate	240000	U
50-29-3-----	4,4'-DDT	240000	U
72-43-5-----	Methoxychlor	1200000	U
53494-70-5-----	Endrin ketone	240000	U
5103-71-9-----	a. Chlordane	1200000	U
5103-74-2-----	g. Chlordane	1200000	U
8001-35-2-----	Toxaphene	2400000	U
12674-11-2-----	Aroclor-1016	1200000	U
11104-28-2-----	Aroclor-1221	1200000	U
11141-16-5-----	Aroclor-1232	1200000	U
53469-21-9-----	Aroclor-1242	1200000	U
12672-29-6-----	Aroclor-1248	1200000	U
11097-69-1-----	Aroclor-1254	2400000	U
11096-82-5-----	Aroclor-1260	2400000	U

Sample: 760NS.C.DL.C.C Channel: ECD-1A Filename: 0811702
Acquired: 13-SEP-89 12:39 Method: C:\MAX\DATA\1\SEPT\890912B Operator: CSJ
Dilution: 1 : 1000.000 Amount: 1.000 Inj Vol: 2.00
Comments: PRIMARY COLUMN DB-608 MEGAPORE 3400-1A ACUREX ERD 3050CLP CASE# 8908117



MAXIMA 820 CUSTOM REPORT

Printed: 13-SEP-1989 16:07:23

SAMPLE: 760MS,C.DL,C.C

#15 in Method: 09/12/89,P.M

Acquired: 13-SEP-1989 12:39

Rate: 2.3 points/sec

Duration: 19.998 minutes

Operator: CSJ

Type: UNKN

Instrument: 3400-1A

Filename: 0811702

Index: Disk

Injection Volume: 2.0

Dilution: 1000.000

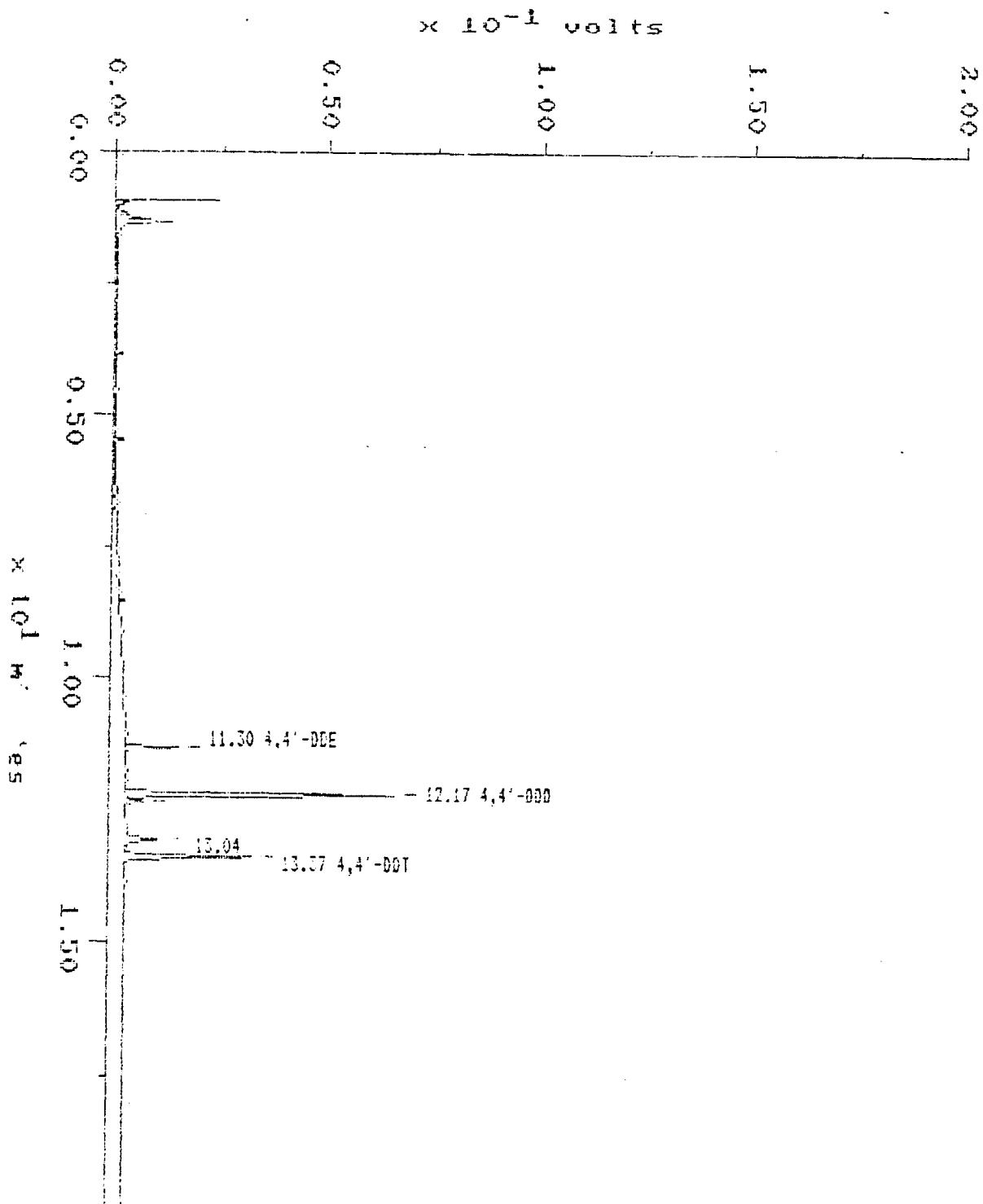
Amount: 1.000

DETECTOR: ECD-1A

PK#	Component Name	Retention Time (minutes)	Peak Area	Solution Conc (ng/ul)	Type	Code	Base
1		10.655	60790		BB		
2	4,4'-DDE	11.381	379356	0.1029!!	BB	EXT	AREA
3	4,4'-DDT	12.254	186001	0.0428	BB	EXT	AREA
4		12.701	50303		BB		
TOTAL			676451	0.1457!!			

!! Result calculation based on peak response more than 10% outside of calibration range.

Sample: 760MS.C.D.L.C Channel: ECD-18 Filename: E811722
Acquired: 13-SEP-89 12:39 Method: C:\MAX\DATA1\B\SEPT\8909128 Operator: CGJ
Dilution: 1 : 1000.000 Amount: 1.000 Inj Vol: 2.00
Comments: CONFIRMATION DR-5 MEGA80RE 3400-1B ACUREX ERO 9080CLP CASE #8908117



MAXIMA 820 CUSTOM REPORT

Printed: 13-SEP-1989 16:43:19

SAMPLE: 750MS,C.DL.C

#15 in Method: 09.12/89,C.N
 Acquired: 13-SEP-1989 12:39
 Rate: 2.3 points/sec
 Duration: 19.999 minutes
 Operator: CGJ

Type: UNAN
 Instrument: 3400-18
 Filename: 8811702
 Index: Disk
 Injection Volume: 2.0
 Dilution: 1000.000
 Accurt: 1.000

DETECTOR: ECD-18

PK#	Component Name	Retention Time (minutes)	Peak Area	Solution Conc (ng/ul)	Type	Code	Base
1	4,4'-DDE not conf <i>CGJ</i>	11.301	45283	0.0430 <i>CGJ</i>	BB	EXT	AREA
2	4,4'-DDD	12.166	260501	0.0893!!	BB	EXT	AREA
3		12.327	13400		BB		
4		13.039	35862		BB		
5	4,4'-DDT	13.369	140031	0.0430	BB	EXT	AREA
TOTAL			495078	0.1452!!			

!! Result calculation based on peak response more than 10% outside of calibration range.

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

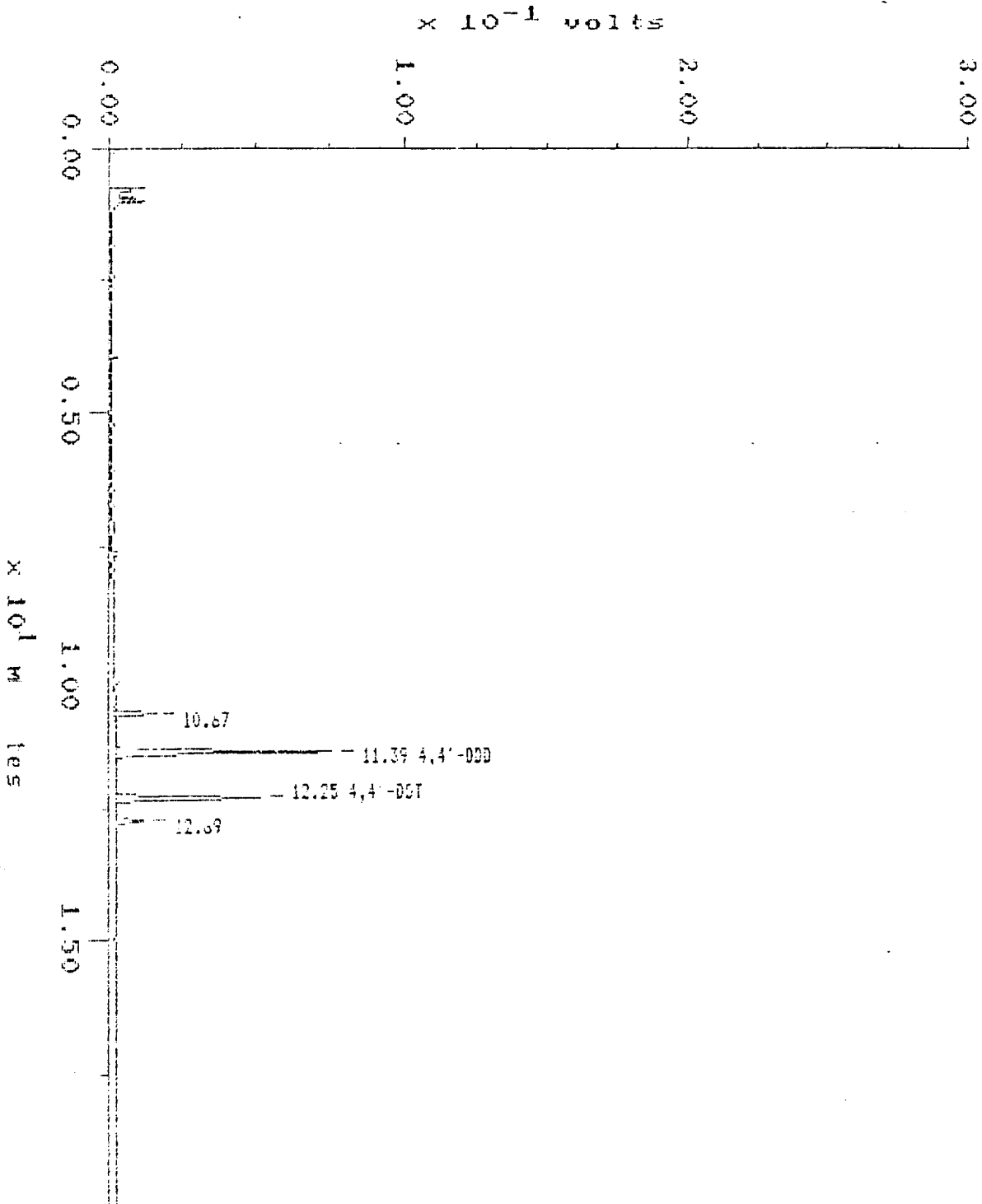
760MSD

Lab Name: ACUREX Contract: _____
 Lab Code: ACUREX Case No.: 08117 SAS No.: _____ SDG No.: 759
 Matrix: (soil/water) SOIL Lab Sample ID: 760MSDC
 Sample wt/vol: 1.0 (g/mL) G Lab File ID: _____
 Level: (low/med) MED Date Received: 08/29/89
 % Moisture: not dec. 0 dec. _____ Date Extracted: 09/12/89
 Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 09/13/89
 GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1000

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
319-84-6	alpha-BHC	120000	U
319-85-7	beta-BHC	120000	U
319-86-8	delta-BHC	120000	U
58-89-9	gamma-BHC (Lindane)	120000	U
76-44-8	Heptachlor	120000	U
309-00-2	Aldrin	120000	U
1024-57-3	Heptachlor epoxide	120000	U
959-98-8	Endosulfan I	120000	U
60-57-1	Dieldrin	240000	U
72-55-9	4,4'-DDE	240000	U
72-20-8	Endrin	240000	U
33213-65-9	Endosulfan II	240000	U
72-54-8	4,4'-DDD	850000	U
1031-07-8	Endosulfan sulfate	240000	U
50-29-3	4,4'-DDT	240000	U
72-43-5	Methoxychlor	1200000	U
53494-70-5	Endrin ketone	240000	U
5103-71-9	a. Chlordane	1200000	U
5103-74-2	g. Chlordane	1200000	U
8001-35-2	Toxaphene	2400000	U
12674-11-2	Aroclor-1016	1200000	U
11104-28-2	Aroclor-1221	1200000	U
11141-16-5	Aroclor-1232	1200000	U
53469-21-9	Aroclor-1242	1200000	U
12672-29-6	Aroclor-1248	1200000	U
11097-69-1	Aroclor-1254	2400000	U
11096-82-5	Aroclor-1260	2400000	U

Sample: 750MSD.D.BL.C.C Channel: ECD-1A Filename: 08117E2
Acquired: 13-SEP-89 13:03 Method: C:\MAX\DATA\1\SEPT\890912S Operator: CGJ
Dilution: 1 : 1000.000 Amount: 1.000 Inj Vol: 2.00
Comments: PRIMARY COLUMN DB-608 MEGABORE 3400-1A ACUREX EAD 6080CLP CASE# 8908117



MAXIMA 820 CUSTOM REPORT

Printed: 13-SEP-1989 18:02:57

SAMPLE: 160MCD,0,DL,C,C

#13 in Method: 09:12/85,P,N
 Acquired: 13-SEP-1989 13:03
 Rate: 2.3 points/sec
 Duration: 19.998 minutes
 Operator: CGJ

Type: UNKN
 Instrument: 3400-1A
 Filename: 08117E2
 Index: Disk
 Injection Volume: 2.0
 Dilution: 1000.000
 Amount: 1.000

DETECTOR: ECD-1A

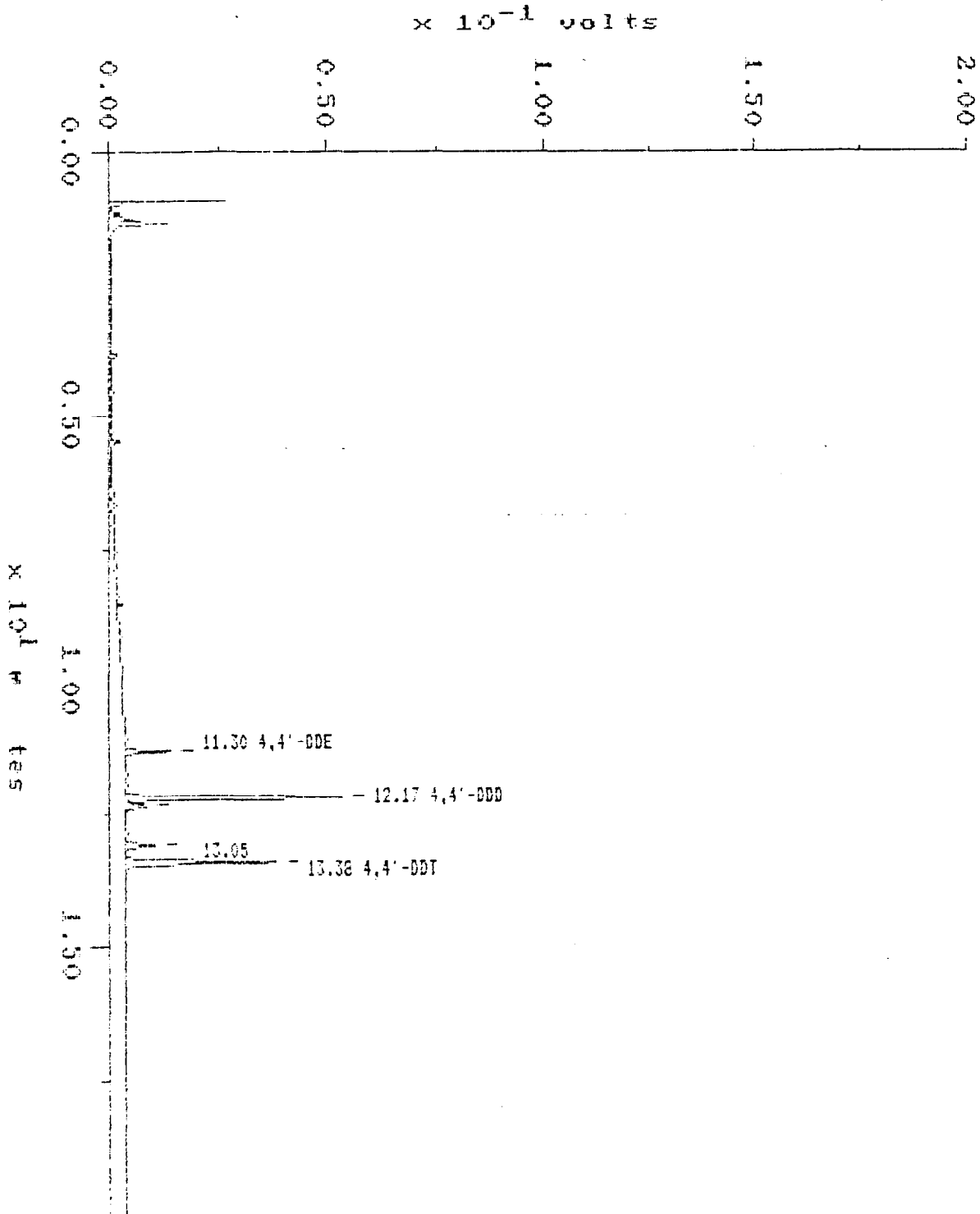
PK#	Component Name	Retention Time (minutes)	Peak Area	Solution Conc (ng/ul)	Type	Code	Base
1		10.670	51895		BB		
2	4,4'-DD	11.389	313889	0.0652!!	BB	EXT	AREA
3	4,4'-DDT	12.254	223493	0.0514	BB	EXT	AREA
4		12.867	49557		BB		
TOTAL			638934	0.1368!!			

!! Result calculation based on peak response more than 10% outside of calibration range.

Sample: 760MSD.C.DL.C
Acquired: 13-SEP-89 13:03
Dilution: 1 : 1000.000
Comments: CONFIRMATION DB-5 MEGABORE 3400-1B ACUREX ERD 9080CLP CASE #8908117

Channel: ECD-1B
Method: C:\ANAL\DATA13\SEPT\390712B
Amount: 1.000

Filename: B3117E2
Operator: CGJ
Inj Vol: 2.00



MAXIMA 820 CUSTOM REPORT

Printed: 13-SEP-1989 16:45:22

SAMPLE: 760MSD,C,UL,C

#16 in Method: 09/12/89,C,N
 Acquired: 13-SEP-1989 13:03
 Rate: 2.3 points/sec
 Duration: 19.998 minutes
 Operator: CGJ

Type: UNKN
 Instrument: 3400-1B
 Filename: 88117E2
 Index: Disk
 Injection Volume: 2.0
 Dilution: 1000.000
 Amount: 1.000

DETECTOR: EED-18

PK#	Component Name	Retention Time (minutes)	Peak Area	Solution Conc (ng/ul)	Type	Code	Base
1	4,4-DDE not conf <i>CGJ</i>	11.301	38889	0.0410 <i>nc</i>	BB	EXT	AREA
2	4,4'-DDD	12.173	207697	0.0712!!!	BB	EXT	AREA
3		12.335	15995		BB		
4		13.046	33226		BB		
5	4,4'-DDT	13.376	166899	0.0513	BB	EXT	AREA
TOTAL			462705	0.1335!!!			

! Result calculation based on peak response more than 10% outside of calibration range.