TRANSMITTAL

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From:	Kevin Trout KT
Date:	February 1, 1995
Subject:	Groundwater Monitoring Report
Project Number:	25109 4

Enclosed are three copies of Harding Lawson Associates' report entitled *Groundwater Monitoring, May through October 1994*, Utility Trailer Manufacturing Company, 17300 East Chestnut Street, City of Industry, California.

If you have any questions, please call.

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Groundwater Monitoring
May through October 1994
Utility Trailer Manufacturing Company
17300 East Chestnut Street
City of Industry, California

Prepared for

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DISTRIBUTION

INTRODUCTION

This report presents Harding Lawson Associates' (HLA) groundwater monitoring and analytical data for the period from May 1 through October 31, 1994, for Utility Trailer Manufacturing Company, City of Industry, California (Plate 1). Analytical results from February 1994 are also included. Results of the February sampling were originally presented in HLA's May 12, 1994, report entitled *Groundwater Monitoring, November 1993 through April 1994*.

WORK CONDUCTED THIS PERIOD

Groundwater Monitoring

Depth to groundwater was measured using either a Solinst electric well sounder or a tape and rule coated with water-detecting paste. Monitoring data collected during this period are presented in Table 1. October monitoring data were used to produce a groundwater elevation contour map (Plate 2) and groundwater elevation hydrograph (Plate 3).

Groundwater beneath the site occurs at an average depth of approximately 22 feet below ground surface (bgs) (equivalent to an approximate elevation of 356 feet above Mean Sea Level). Inferred groundwater elevation contours indicate a northwesterly flow direction and a gradient with a magnitude of approximately 0.005 foot per foot.

Groundwater Sampling

An HLA geologist collected groundwater samples from site observation wells (MW-02 through MW-06) on August 17 and October 14, 1994, for chemical analyses. The second sampling event was necessary because turbidity measurements determined by the contract laboratory were above 5.0 nephelometric turbidity units (NTUs). Turbidity was measured in the field during the second sampling event, and no samples exceeded 5.0 NTUs. Prior to sampling, wells were purged of approximately four well volumes to remove standing water and to promote the flow of water from the surrounding formation into the well casing. Purge water was collected by lowering a submersible pump to a depth approximately 2 feet above the bottom of each casing. The pH, electric conductance, temperature, and turbidity of the purged groundwater were monitored during purging. Well purging data from the second sampling event are presented in Appendix A. To minimize cross contamination between wells, purging and sampling

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equipment was decontaminated prior to each use with Liqui-Nox detergent solution followed by potable and distilled water rinses.

Prior to groundwater sample collection, water levels in the well casings were allowed to recover to within at least 80 percent of the original static water level observed before purging. Well MW-03 was purged dry and also was allowed to recover to at least 80 percent of the original static water level. This well has had a history of purging dry. To minimize agitation/volatilization, the samples were collected by gently lowering a stainless-steel bailer into the groundwater. The collected groundwater was immediately and carefully transferred into laboratory-prepared 40-milliliter glass volatile organic analysis vials. The vials were immediately sealed with screw caps, labeled, and placed in an iced field cooler for shipment to Del Mar Analytical (DMA), a California State-certified laboratory, in accordance with chain-of-custody protocol. One groundwater sample was collected in duplicate (labeled MW-07) from Well MW-02 during the August sampling event and from Well MW-04 during the October sampling event and submitted for analysis to monitor laboratory quality control. To assess the effectiveness of decontamination procedures, an equipment blank was collected (labeled MW-08) and submitted with the groundwater samples for analyses. Collected samples were analyzed for halogenated volatile organic compounds (VOCs) using EPA Method 8010.

Groundwater Analytical Results

Data collected during the October sampling event are presented in Table 2. Eight halogenated compounds were detected in groundwater samples collected from site wells. The maximum halogenated VOC concentrations detected during the October sampling event were:

- Tetrachloroethene (PCE) - 360 micrograms per liter (μg/l) in Well MW-02,
- Trichloroethene (TCE) - 33 μg/l in upgradient Well MW-03,
- 1,1-dichloroethene (1,1-DCE) - 69 μg/l in Well MW-05,
- 1,1,1-trichloroethane (1,1,1-TCA) - 31 μg/l in Well MW-05,
- 1,1-dichloroethane (1,1-DCA) - 17 μg/l in Well MW-02,

- cis-1,2-dichloroethene (1,2-DCE) - 9.7 $\mu g/l$ in Well MW-02,

- Trichlorofluoromethane (TCFM) - 12 $\mu g/l$ in upgradient Well MW-03, and

- Chloroform - 2.3 $\mu g/l$ in upgradient Well MW-03.

Groundwater analytical results are presented in Table 2. The relative percent differences (RPDs) for analytes of the quality control sample were less than 10 percent and are presented in Table 3. In addition, QA/QC data from the laboratory analysis met acceptance criteria.

DISCUSSION

Review of historical groundwater chemical data collected at the site and comparison with the data collected during this reporting period indicate:

- In general, concentrations of analytes increased compared to the last reporting period, with the exception of decreases of TCE and 1,1,1-TCA in Well MW-03.

- Maximum concentrations of VOCs have consistently been detected in the two upgradient wells, MW-03 and MW-04, and in Well MW-02, located within the runoff collection area at the north end of the drainage conduit.

- The highest concentrations of PCE have been detected in upgradient Well MW-04 and downgradient Well MW-02.

- The highest concentrations of TCE have consistently been detected in upgradient Well MW-03.

- The highest concentrations of 1,1,1-TCA have been detected in Well MW-05 at levels well below all applicable maximum contaminant levels (MCLs).

- The highest concentrations of 1,1-DCE have consistently been detected in upgradient Well MW-04 and have recently been increasing in downgradient Well MW-05.

- Chloroform was reported at a concentration near the detection limit during the October sampling event and has been detected infrequently during previous sampling events at the site.

Isoconcentration contour maps prepared for the two most recent sampling events (February and October 1994) are presented on Plates 4 through 7. These maps indicate the following:

- Elevated concentrations of PCE detected in Well MW-04 indicate an upgradient and offsite source. In general, there is a steep negative PCE concentration gradient toward the center of the site (constrained by Wells MW-05 and MW-06) with elevated PCE concentrations in Well MW-02 separated from those of Well MW-04 by much lower concentrations across the site.

- Consistently elevated concentrations of TCE are detected in Well MW-03; concentrations in all other wells are consistently lower. This historically consistent concentration distribution indicates an upgradient and offsite source for TCE.

- The October 1994 data suggest a downgradient migration of maximum 1,1-DCE and PCE concentrations from Well MW-04 toward Well MW-05.

The concentration and corresponding water elevation versus time plots for the wells are presented on Plates 8 through 12. An overall decline in groundwater elevation is noted beginning in February 1993. For Wells MW-02, MW-03, MW-04, and MW-06, this decline in groundwater elevation also corresponded with a general decrease in contaminant concentrations. However, in Well MW-05 concentrations are observed to generally increase over the same period.

TABLES

Table 1. Groundwater Monitoring Data
Utility Trailer Manufacturing Company

WELL NUMBER	SURVEYED ELEVATION (FEET MSL)*	DATE	DEPTH TO GROUNDWATER (FEET)**	EQUIVALENT GROUNDWATER ELEVATION (FEET MSL)
MW-02	377.16	06/01/89	23.45	353.71
		06/28/89	23.53	353.63
		09/15/89	23.55	353.61
		10/11/89	23.63	353.53
		11/16/89	23.70	353.46
		12/11/89	23.75	353.41
		01/15/90	23.76	353.40
		02/12/90	23.66	353.50
		03/09/90	23.57	353.59
		04/12/90	23.45	353.71
		05/14/90	23.98	353.18
		06/07/90	23.92	353.24
		07/10/90	23.85	353.31
		08/16/90	24.30	352.86
		09/11/90	23.97	353.19
		01/31/91	24.78	352.38
		02/27/91	25.02	352.14
		03/07/91	24.30	352.86
		04/08/91	23.86	353.30
		05/07/91	24.10	353.06
		06/07/91	24.26	352.90
		07/10/91	24.54	352.62
		08/06/91	24.72	352.44
		09/06/91	24.52	352.64
		10/07/91	24.27	352.89
		11/06/91	24.50	352.66
		12/05/91	24.60	352.56
		04/06/92	23.66	353.50
		05/07/92	23.62	353.54
		06/08/92	23.25	353.91
		07/07/92	23.40	353.76
		08/07/92	24.07	353.09
		09/08/92	24.00	353.16
		10/07/92	24.17	352.99
		11/04/92	24.16	353.00
		12/04/92	24.15	353.01
		01/08/93	23.11	354.05
		02/05/93	22.00	355.16
		03/04/93	21.49	355.67
		04/07/93	21.92	355.24
		05/04/93	22.10	355.06
		06/04/93	22.05	355.11
		07/06/93	22.10	355.06
		08/02/93	22.46	354.70
		09/07/93	22.24	354.92
		10/04/93	22.33	354.83
		11/04/93	22.36	354.80
		12/03/93	22.88	354.28
		01/10/94	22.93	354.23
		02/09/94	22.90	354.26
		03/15/94	23.05	354.11
		04/06/94	22.95	354.21
		05/09/94	22.90	354.26
		06/08/94	23.06	354.10
		07/11/94	23.20	353.96
		08/03/94	23.34	353.82
		09/01/94	23.60	353.56
		10/04/94	23.52	353.64

Notes: MSL = Mean Sea Level
* Elevation surveyed to top of well box
** Depth to ground water referenced to top of well box

Table 1. Groundwater Monitoring Data
Utility Trailer Manufacturing Company

WELL NUMBER	SURVEYED ELEVATION (FEET MSL)*	DATE	DEPTH TO GROUNDWATER (FEET)**	EQUIVALENT GROUNDWATER ELEVATION (FEET MSL)
MW-03	378.56	06/01/89	22.30	356.26
		08/28/89	22.35	356.21
		09/15/89	22.41	356.15
		10/11/89	22.48	356.08
		11/16/89	22.55	356.01
		12/11/89	22.57	355.99
		01/15/90	22.57	355.99
		02/12/90	22.47	356.09
		03/09/90	22.30	356.26
		04/12/90	22.27	356.29
		05/14/90	22.68	355.88
		06/07/90	22.63	355.93
		07/10/90	22.62	355.94
		08/16/90	22.92	355.64
		09/11/90	22.69	355.87
		01/31/91	23.27	355.29
		02/27/91	23.45	355.11
		03/07/91	22.86	355.70
		04/08/91	22.46	356.10
		05/07/91	22.68	355.88
		06/07/91	22.99	355.57
		07/10/91	23.07	355.49
		08/08/91	23.20	355.36
		09/06/91	23.08	355.48
		10/07/91	22.90	355.66
		11/06/91	22.93	355.63
		12/05/91	23.14	355.42
		04/09/92	22.36	356.20
		05/07/92	22.50	356.06
		06/09/92	21.94	356.62
		07/07/92	22.04	356.52
		08/07/92	22.75	355.81
		09/08/92	22.69	355.87
		10/07/92	22.82	355.74
		11/04/92	22.83	355.73
		12/04/92	22.83	355.73
		01/08/93	22.07	356.49
		02/05/93	21.01	357.55
		03/04/93	20.58	357.98
		04/07/93	20.88	357.68
		05/14/93	21.08	357.48
		06/04/93	21.07	357.49
		07/06/93	21.08	357.48
		08/02/93	21.42	357.14
		09/07/93	21.18	357.38
		10/04/93	21.27	357.29
		11/04/93	21.32	357.24
		12/03/93	21.90	356.66
		01/10/94	21.97	356.59
		02/09/94	21.98	356.58
		03/15/94	22.05	356.51
		04/08/94	21.96	356.60
		05/09/94	21.88	356.68
		06/06/94	22.06	356.50
		07/11/94	22.20	356.36
		08/03/94	22.30	356.26
		09/01/94	22.58	355.98
		10/04/94	22.48	356.08

Notes: MSL = Mean Sea Level
* Elevation surveyed to top of well box
** Depth to ground water referenced to top of well box

Table 1. Groundwater Monitoring Data
Utility Trailer Manufacturing Company

WELL NUMBER	SURVEYED ELEVATION (FEET MSL)*	DATE	DEPTH TO GROUNDWATER (FEET)**	EQUIVALENT GROUNDWATER ELEVATION (FEET MSL)
MW-04	383.57	08/01/89	27.70	355.87
		08/28/89	27.77	355.80
		09/15/89	27.79	355.78
		10/11/89	27.85	355.72
		11/16/89	27.94	355.63
		12/11/89	28.01	355.56
		01/15/90	28.04	355.53
		02/12/90	27.97	355.60
		03/09/90	27.83	355.74
		04/12/90	27.92	355.65
		05/14/90	28.25	355.32
		06/07/90	28.30	355.27
		07/10/90	28.29	355.28
		08/16/90	28.50	355.07
		09/11/90	28.42	355.15
		01/31/91	28.92	354.65
		02/27/91	29.13	354.44
		03/07/91	28.55	355.02
		04/08/91	28.06	355.51
		05/07/91	28.30	355.27
		06/07/91	28.63	354.94
		07/10/91	28.75	354.82
		08/08/91	28.84	354.73
		09/06/91	28.88	354.69
		10/07/91	28.73	354.84
		11/06/91	28.80	354.77
		12/05/91	28.92	354.65
		04/09/92	27.97	355.60
		05/07/92	28.14	355.43
		06/09/92	27.69	355.88
		07/07/92	27.89	355.68
		08/07/92	28.45	355.12
		09/08/92	28.35	355.22
		10/07/92	28.50	355.07
		11/04/92	28.56	355.01
		12/04/92	28.54	355.03
		01/08/93	27.55	356.02
		02/05/93	26.24	357.33
		03/04/93	25.71	357.86
		04/07/93	26.11	357.46
		05/14/93	26.36	357.21
		06/04/93	26.32	357.25
		07/06/93	26.38	357.19
		08/02/93	26.59	356.98
		09/07/93	26.58	356.99
		10/04/93	26.71	356.86
		11/04/93	27.26	356.31
		12/03/93	27.18	356.39
		01/10/94	27.26	356.31
		02/09/94	27.28	356.29
		03/15/94	27.40	356.17
		04/08/94	27.25	356.32
		05/09/94	27.29	356.28
		06/06/94	27.52	356.05
		07/11/94	27.58	355.99
		08/03/94	27.72	355.85
		09/01/94		
		10/04/94	27.92	355.65

Notes: MSL = Mean Sea Level
* Elevation surveyed to top of well box
** Depth to ground water referenced to top of well box

Table 1. Groundwater Monitoring Data
Utility Trailer Manufacturing Company

WELL NUMBER	SURVEYED ELEVATION (FEET MSL)*	DATE	DEPTH TO GROUNDWATER (FEET)**	EQUIVALENT GROUNDWATER ELEVATION (FEET MSL)
MW-05	381.15	08/01/89	26.25	354.90
		08/28/89	26.22	354.93
		09/15/89	26.26	354.89
		10/11/89	26.30	354.85
		11/16/89	26.41	354.74
		12/11/89	26.50	354.65
		01/15/90	26.52	354.63
		02/12/90	26.46	354.69
		03/09/90	26.35	354.80
		04/12/90	26.42	354.73
		05/14/90	26.79	354.36
		06/07/90	26.85	354.30
		07/10/90	26.82	354.33
		08/16/90	27.12	354.03
		09/11/90	26.94	354.21
		01/31/91	27.51	353.64
		02/27/91	27.71	353.44
		03/07/91	27.08	354.07
		04/08/91	26.65	354.50
		05/07/91	26.83	354.32
		06/07/91	27.16	353.99
		07/10/91	27.29	353.86
		08/08/91	27.14	354.01
		09/06/91	27.44	353.71
		10/07/91	27.31	353.84
		11/06/91	27.37	353.78
		12/05/91	27.46	353.69
		04/09/92	26.44	354.71
		05/07/92	26.62	354.53
		06/09/92	25.96	355.19
		07/07/92	26.17	354.98
		08/07/92	26.97	354.18
		09/08/92	26.85	354.30
		10/07/92	26.98	354.17
		11/04/92	27.07	354.08
		12/04/92	27.03	354.12
		01/08/93	25.97	355.18
		02/05/93	24.63	356.52
		03/04/93	24.08	357.07
		04/07/93	24.57	356.58
		05/14/93	24.81	356.34
		06/04/93	24.52	356.63
		07/08/93	24.87	356.28
		08/02/93	25.14	356.01
		09/07/93	24.82	356.33
		10/04/93	24.96	356.19
		11/04/93	25.02	356.13
		12/03/93	25.60	355.55
		01/10/94	25.70	355.45
		02/09/94	25.72	355.43
		03/15/94	25.83	355.32
		04/08/94	25.69	355.46
		05/09/94	26.04	355.11
		06/08/94	25.96	355.19
		07/11/94	26.03	355.12
		08/03/94	26.18	354.97
		09/01/94	26.47	354.68
		10/04/94	26.39	354.76

Notes: MSL = Mean Sea Level
* Elevation surveyed to top of well box
** Depth to ground water referenced to top of well box

Table 1. Groundwater Monitoring Data
Utility Trailer Manufacturing Company

WELL NUMBER	SURVEYED ELEVATION (FEET MSL)*	DATE	DEPTH TO GROUNDWATER (FEET)**	EQUIVALENT GROUNDWATER ELEVATION (FEET MSL)
MW-06	380.20	06/01/89	24.45	355.75
		06/28/89	24.48	355.72
		09/15/89	24.53	355.67
		10/11/89	24.63	355.57
		11/16/89	24.67	355.53
		12/11/89	24.75	355.45
		01/15/90	24.76	355.44
		02/12/90	24.67	355.53
		03/09/90	24.52	355.68
		04/12/90	24.55	355.65
		05/14/90	24.93	355.27
		06/07/90	24.95	355.25
		07/10/90	24.92	355.28
		08/16/90	25.18	355.02
		09/11/90	25.04	355.16
		01/31/91	25.61	354.59
		02/27/91	25.79	354.41
		03/07/91	25.18	355.02
		04/08/91	24.76	355.44
		05/07/91	24.95	355.25
		06/07/91	25.29	354.91
		07/10/91	25.39	354.81
		08/06/91	25.33	354.87
		09/06/91	25.47	354.73
		10/07/91	25.30	354.90
		11/06/91	25.38	354.82
		12/05/91	25.52	354.68
		04/09/92	24.63	355.57
		05/07/92	24.80	355.40
		06/09/92	24.34	355.86
		07/07/92	24.50	355.70
		08/07/92	25.06	355.14
		09/08/92	24.56	355.64
		10/07/92	25.13	355.07
		11/04/92	25.20	355.00
		12/04/92	25.16	355.04
		01/08/93	24.36	355.84
		02/05/93	23.08	357.12
		03/04/93	22.60	357.60
		04/07/93	22.96	357.24
		05/14/93	23.20	357.00
		06/04/93	23.17	357.03
		07/06/93	23.17	357.03
		08/02/93	23.45	356.75
		09/07/93	23.39	356.81
		10/04/93	23.50	356.70
		11/04/93	23.55	356.65
		12/03/93	23.98	356.22
		01/10/94	23.95	356.25
		02/09/94	24.10	356.10
		03/15/94	24.17	356.03
		04/08/94	24.05	356.15
		05/09/94	24.05	356.15
		06/06/94	24.26	355.94
		07/11/94	24.34	355.86
		08/03/94	24.50	355.70
		09/01/94	24.72	355.48
		10/04/94	24.66	355.54

Notes: MSL = Mean Sea Level
* Elevation surveyed to top of well box
** Depth to ground water referenced to top of well box

Table 2. Groundwater Chemical Analytical Data
Utility Trailer Manufacturing Company
EPA Test Method 8010

Well No.	Date	1,1-DCE (ug/l)	1,1-DCA (ug/l)	cis-1,2-DCE (ug/l)	1,1,1-TCA (ug/l)	TCE (ug/l)	PCE (ug/l)	TCFM (ug/l)	Chloroform (ug/l)
MW-02	02/09/94	11	8.9	5.3	5.7	22	160	(0.5)	(0.5)
MW-07 (MW-02 Duplicate)	02/09/94	15	14	8	8.5	30	220	(2.5)	(2.5)
MW-02	10/14/94	30	17	9.7	8.3	30	360	2.8	1.3
MW-03	02/09/94	4.6	2.4	6.3	4.4	60	120	(0.5)	(0.5)
MW-03	10/14/94	4.8	1.1	6.6	2.2	33	160	12	2.3
MW-04	02/09/94	32	(2.5)	(2.5)	3.9	11	230	(2.5)	(2.5)
MW-04	10/14/94	53	(0.5)	(0.5)	5.9	9.9	310	(0.5)	(0.5)
MW-07 (MW-04 Duplicate)	10/14/94	56	(0.5)	(0.5)	6.5	10	300	(0.5)	(0.5)
MW-05	02/09/94	49	12	0.61	35	12	65	(0.5)	5.4
MW-05	10/14/94	69	13	0.66	31	11	78	0.53	0.89
MW-06	02/09/94	9.8	4.3	(1.3)	16	14	68	(1.3)	(1.3)
MW-06	10/14/94	18	4.9	0.57	17	13	86	(0.5)	0.86
MW-08 (equipment blank)	02/09/94	(0.5)	(0.5)	(0.5)	0.59	(0.5)	(0.5)	(0.5)	(0.5)
MW-08 (equipment blank)	10/14/94	(0.5)	(0.5)	(0.5)	(0.5)	(0.5)	(0.5)	(0.5)	0.95
California MCL		6	5	6	200	5	5	150	100*

( ) indicates compound not detected at or above enclosed reporting limit. ug/l=micrograms per liter.
DCE=dichloroethene; DCA=dichloroethane; TCA=trichloroethane; TCE=trichloroethene; PCE=tetrachloroethene
TCFM=trichlorofluoromethane
MCL=maximum contaminant level ; * = for total trihalomethanes

UTM 005107

Table 3. Relative Percent Difference of Quality Control Sample
Utility Trailer Manufacturing Company

Well No.	Date	1,1-DCE (ug/L)	1,1,1-TCA (ug/L)	TCE (ug/L)	PCE (ug/L)
MW-04	10/14/94	53	5.9	9.9	310
MW-07 (MW-04 Duplicate)	10/14/94	56	6.5	10	300
RPD		5.5	9.7	1.0	3.3

( ) indicates compound not detected at or above enclosed reporting limit. ug/L=micrograms per liter.
DCE=dichloroethene; TCA=Trichloroethane; TCE=trichloroethene; PCE=tetrachloroethene

UTM 005108

ILLUSTRATIONS

UTM 005109

SCALE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

Reference: USGS 7.5-minute quadrangles, Baldwin Park and La Habra, California (photorevised 1981)

HARDING LAWSON ASSOCIATES
Engineering and
Environmental Services

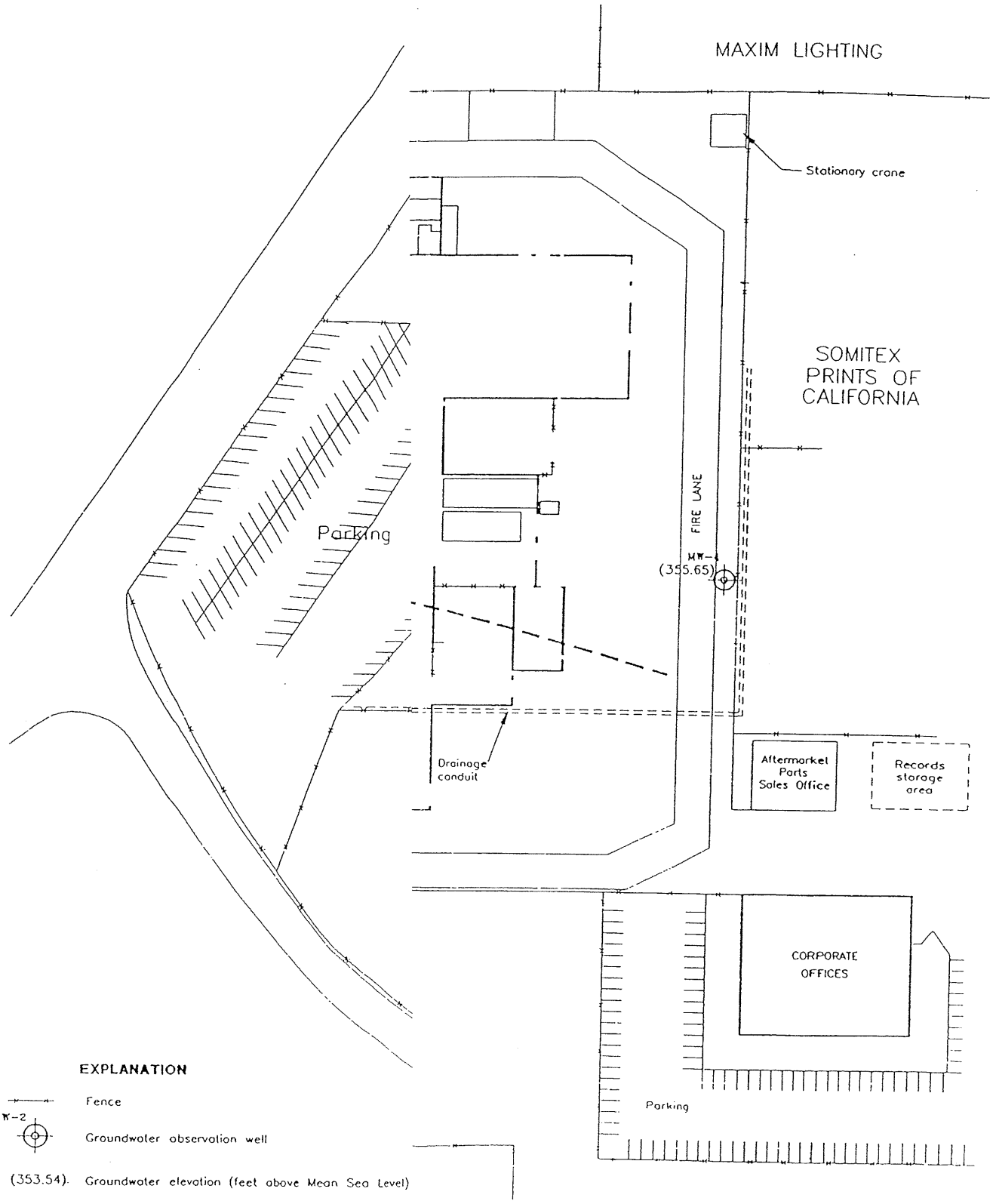
VICINITY MAP
Utility Trailer Manufacturing Company
City of Industry, California

PLATE **1**

DRAWN	PROJECT-TASK NUMBER	APPROVED	DATE	REVISED DATE
JTL	25109-4	KGT	12/94	

UTM 005110

USER 1 PLOT 1 = 100 HDT\25109\04\11-94



EXPLANATION

Fence

MW-2 Groundwater observation well

(353.54). Groundwater elevation (feet above Mean Sea Level)

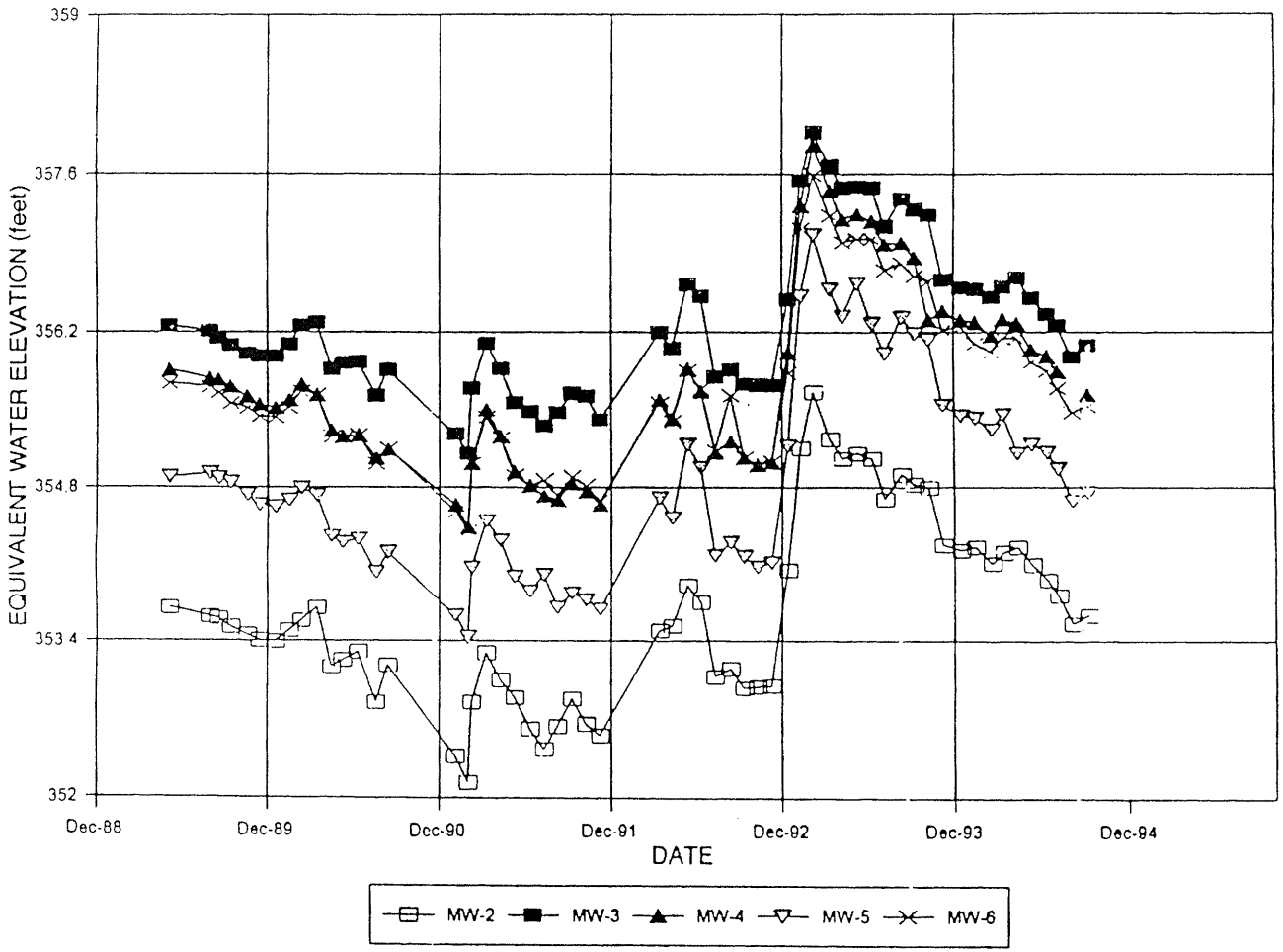
355.50 Groundwater elevation contour (contour interval 0.5

GROUNDWATER ELEVATION CONTOUR MAP - OCTOBER 1994
Utility Trailer Manufacturing Company
City of Industry, California

PLATE 2

APPROVED Koo | DATE 11/94 | REVISED DA

UTM 005111



HARDING LAWSON ASSOCIATES
Engineering and
Environmental Services

GROUNDWATER ELEVATION HYDROGRAPH
Utility Trailer Manufacturing Company
City of Industry, California

PLATE
3

DRAWN	PROJECT-TASK NUMBER	APPROVED	DATE	REVISED DATE
JTL	25109-4	KAW	12/94	

UTM 005111.1

USER 1: PLOT 1 = 100 HDT\25109\V1-5:2W

LOS ANGELES WATER COMPANY

MAXIM LIGHTING

MW-3
120

Maintenance and repair shed

Stationary crane

DRIVEWAY

Equipment & parts storage

Parts & storage Warehouse

DRIVEWAY

MANUFACTURING BUILDING

100

150

DRIVEWAY

SOMITEX PRINTS OF CALIFORNIA

MW-6
68

DRIVE

MW-4
230

PLANT OFFICES

150

200

MW-1

MW-2
160

Parking

Drainage conduit

Aftermarket Parts Sales Office

Records storage area

MW-5
65

DRIVEWAY

Guard shack

CORPORATE OFFICES

Test track (dirt)

Parking

EXPLANATION

Fence

MW-2 Groundwater monitoring well

MW-1 Abandoned groundwater monitoring well

160 PCE Concentration (ug/L) (February 1994)

100 PCE isoconcentration contour (contour interval 50 ug/L)

N

Scale 0 50 100 feet

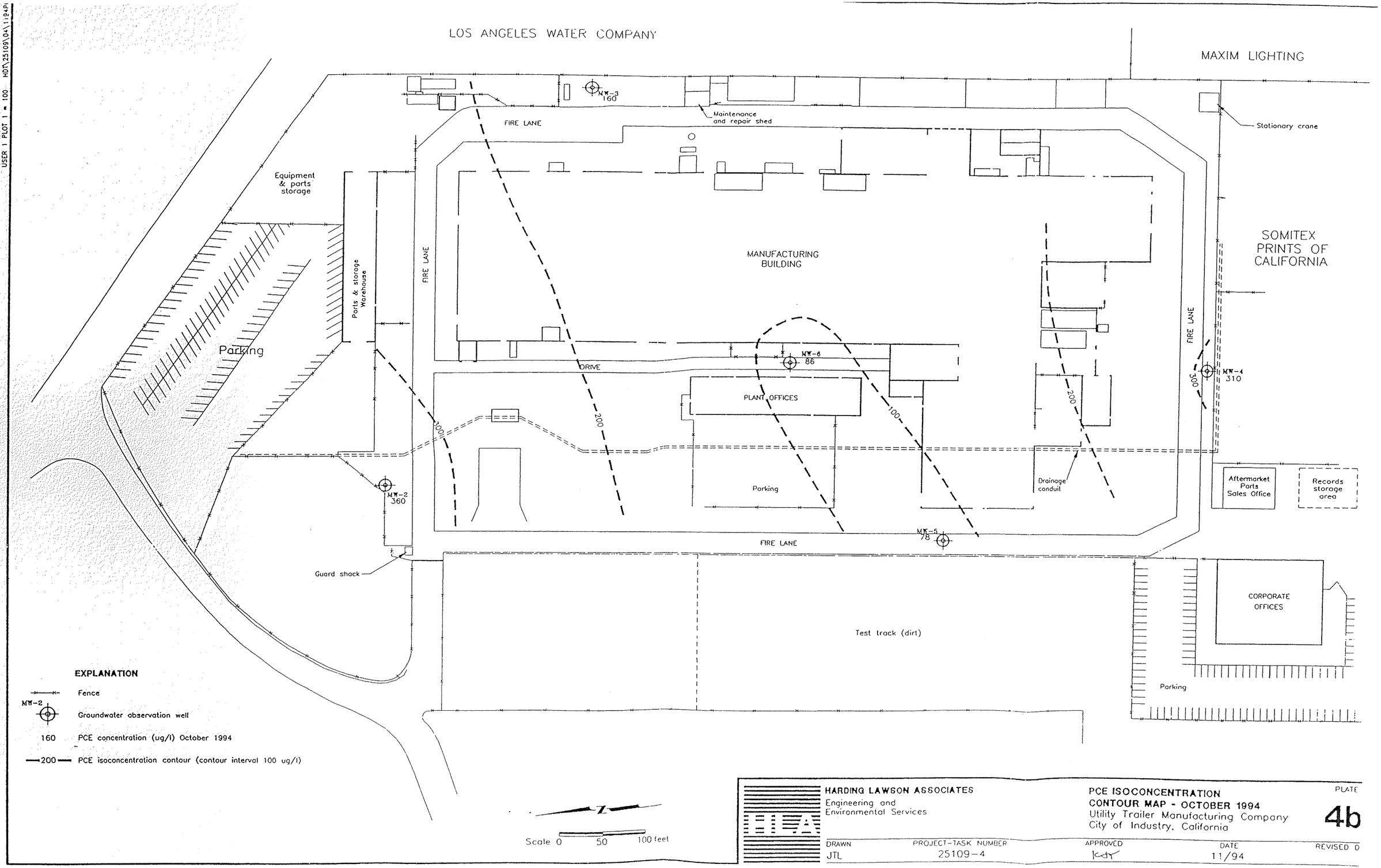
HARDING LAWSON ASSOCIATES
Engineering and Environmental Services

PCE ISOCONCENTRATION CONTOUR MAP - FEBRUARY 1994
Utility Trailer Manufacturing Company
City of Industry, California

PLATE **4a**

DRAWN	PROJECT-TASK NUMBER	APPROVED	DATE	REVISED DATE
JTL	25109-4	KOT	12/94	

UTM 005112



HARDING LAWSON ASSOCIATES
Engineering and Environmental Services

PCE ISOCONCENTRATION
CONTOUR MAP - OCTOBER 1994
Utility Trailer Manufacturing Company
City of Industry, California

PLATE 4b

DRAWN	PROJECT-TASK NUMBER	APPROVED	DATE	REVISED 0
JTL	25109-4		11/94	

USER 1 PLOT 1 = 100 HDT\25109\04\11:94PI

UTM 005113

USER 1 PLOT 1 = 100 HOR 25109\4-1ESCH

LOS ANGELES WATER COMPANY

MAXIM LIGHTING

SOMITEX PRINTS OF CALIFORNIA

MW-3
60

Maintenance and repair shed

Stationary crane

DRIVEWAY

50

40

30

20

Equipment & parts storage

Parts & storage Warehouse

DRIVEWAY

MANUFACTURING BUILDING

DRIVEWAY

MW-6
14

DRIVE

MW-4
11

PLANT OFFICES

MW-1

MW-2
22

Parking

Drainage conduit

Aftermarket Parts Sales Office

Records storage area

MW-5
12

DRIVEWAY

Guard shack

CORPORATE OFFICES

Test track (dirt)

Parking

EXPLANATION

Fence

MW-2 Groundwater monitoring well

MW-1 Abandoned groundwater monitoring well

22 TCE Concentration (ug/L) (February 1994)

20 TCE isoconcentration contour (contour interval 10 ug/L)

N

Scale 0 50 100 feet

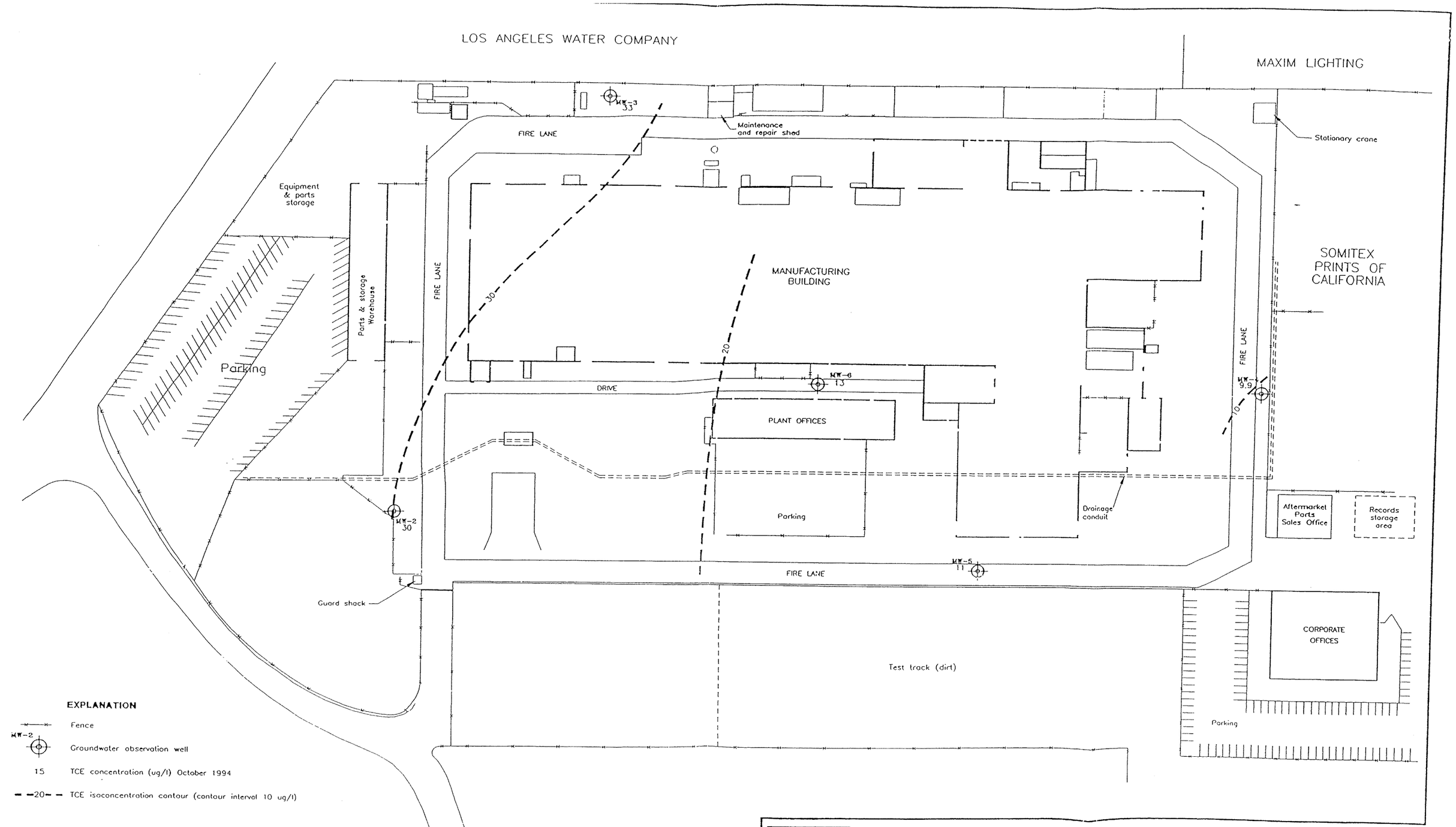
HARDING LAWSON ASSOCIATES
Engineering and Environmental Services

TCE ISOCONCENTRATION CONTOUR MAP - FEBRUARY 1994
Utility Trailer Manufacturing Company
City of Industry, California

PLATE **5a**

DRAWN	PROJECT-TASK NUMBER	APPROVED	DATE	REVISED DATE
JTL	25109-4	KJJ	12/94	

UTM 005114



HARDING LAWSON ASSOCIATES
Engineering and Environmental Services

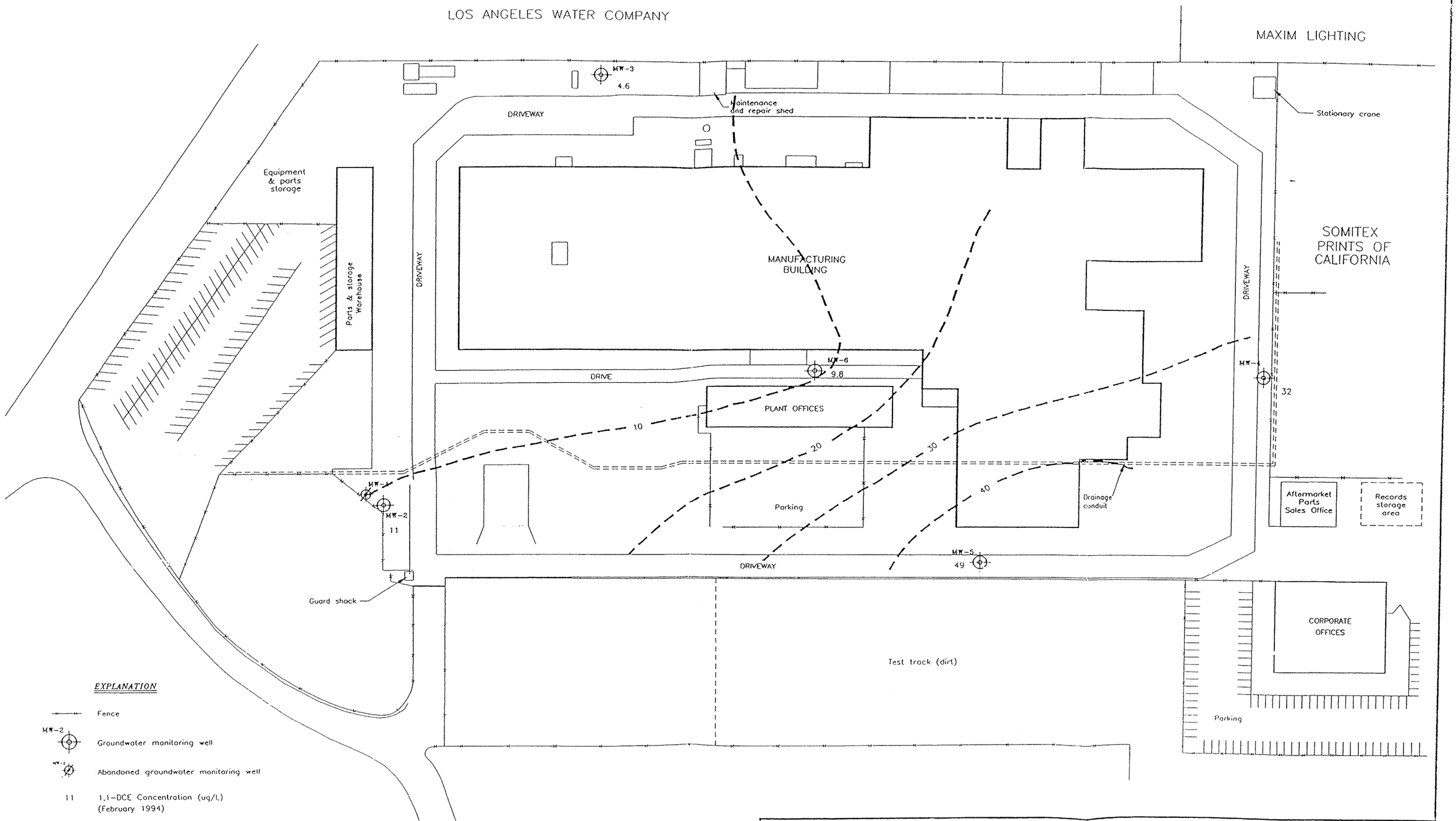
TCE ISOCONCENTRATION CONTOUR MAP - OCTOBER 1994
Utility Trailer Manufacturing Company
City of Industry, California

PLATE **5b**

DRAWN	PROJECT-TASK NUMBER	APPROVED	DATE	REVISED DATE
JTL	25109-4		1/95	

UTM 005115

USER 1 PLOT 1 = 100 HOT\25109\4\SCCNS



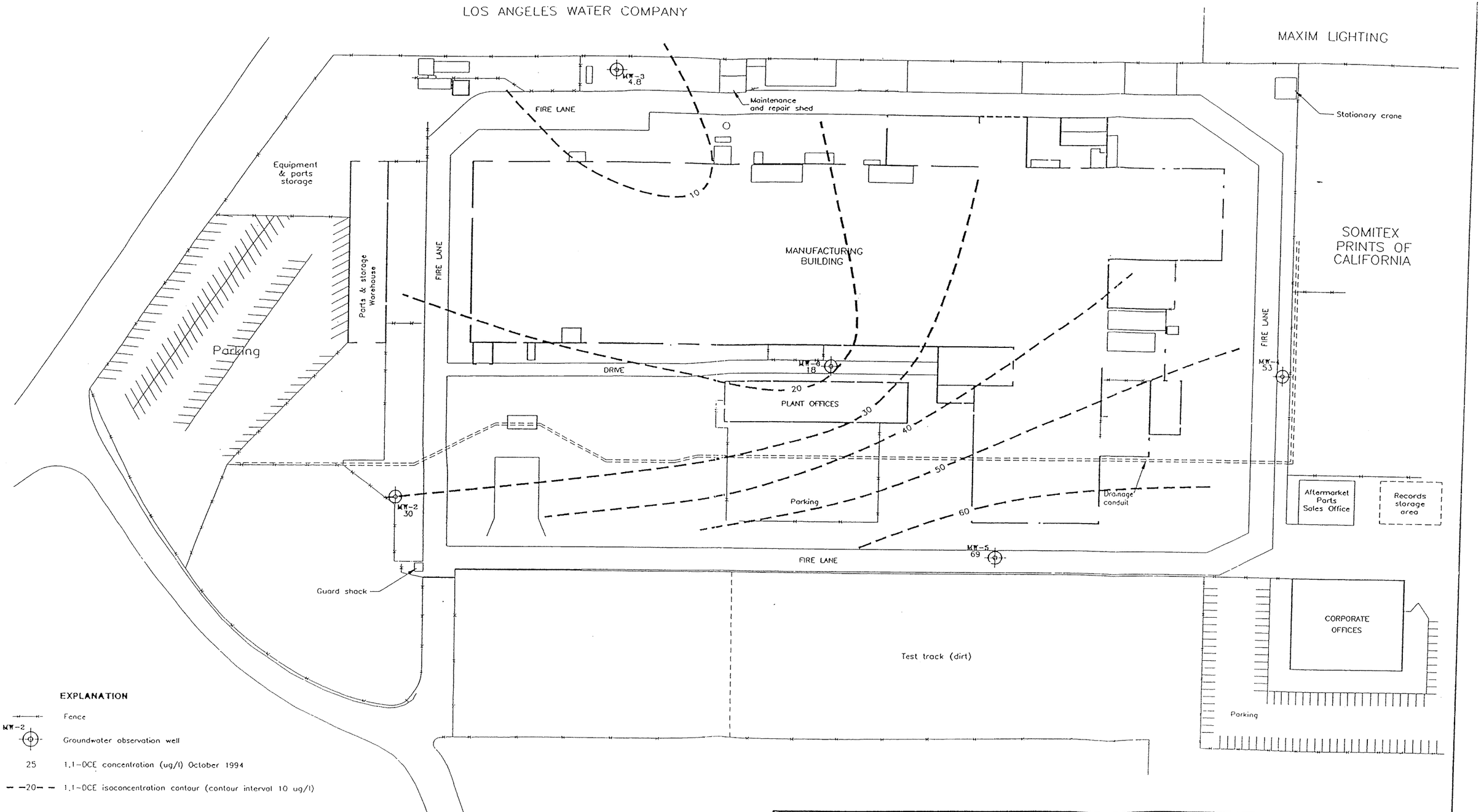
HARDING LAWSON ASSOCIATES
Engineering and Environmental Services

1,1-DCE ISOCONCENTRATION CONTOUR MAP - FEBRUARY 1994
Utility Trailer Manufacturing Company
City of Industry, California

PLATE **6a**

DRAWN	PROJECT-TASK NUMBER	APPROVED	DATE	REVISED DATE
JTL	25109-4	kjr	12/94	

UTM 005116



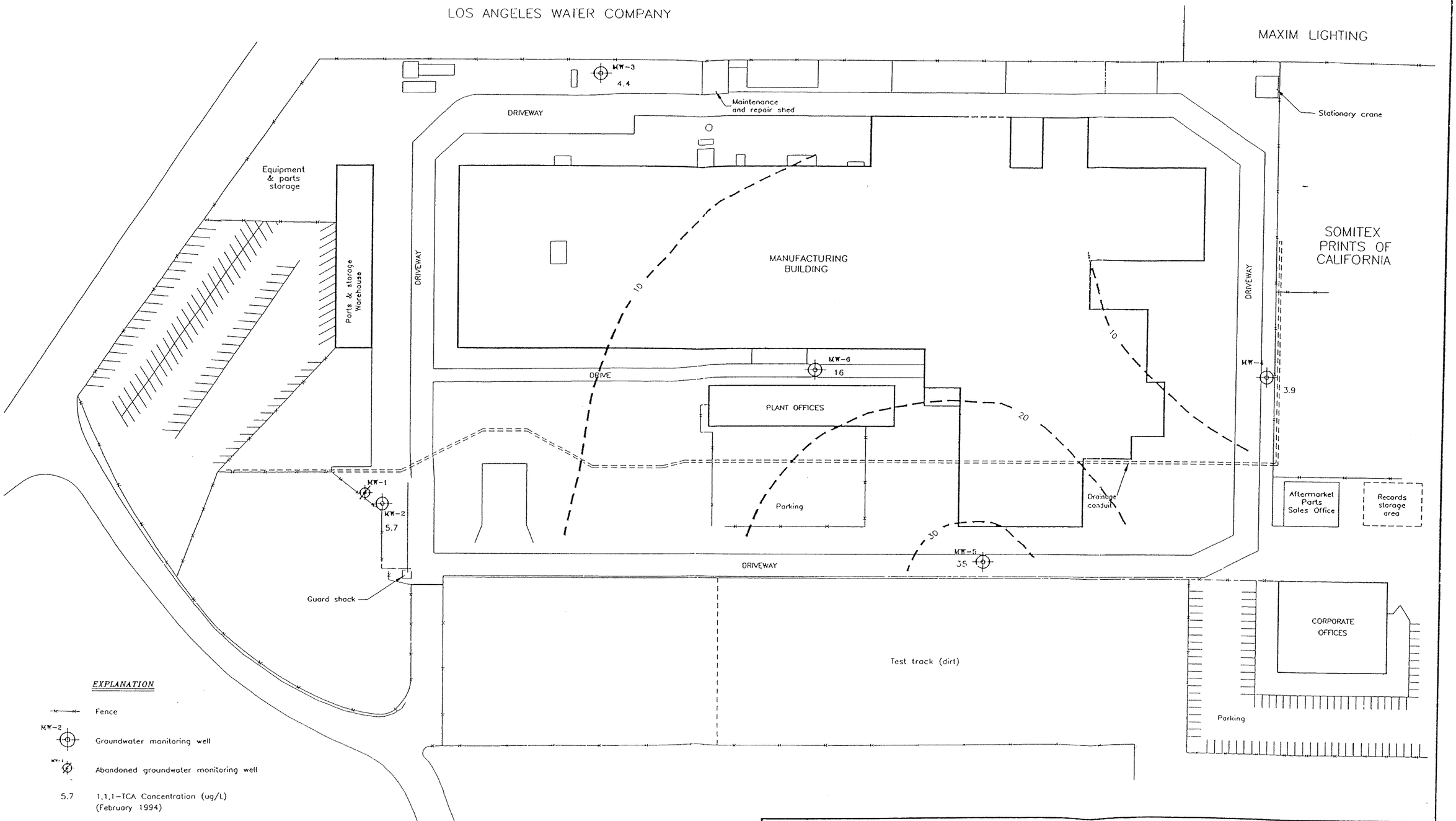
HARDING LAWSON ASSOCIATES
Engineering and Environmental Services

1,1-DCE ISOCONCENTRATION CONTOUR MAP - OCTOBER 1994
Utility Trailer Manufacturing Company
City of Industry, California

PLATE **6b**

DRAWN	PROJECT-TASK NUMBER	APPROVED	DATE	REVISED DATE
JTL	25109-4	KJT	1/95	

UTM 005117



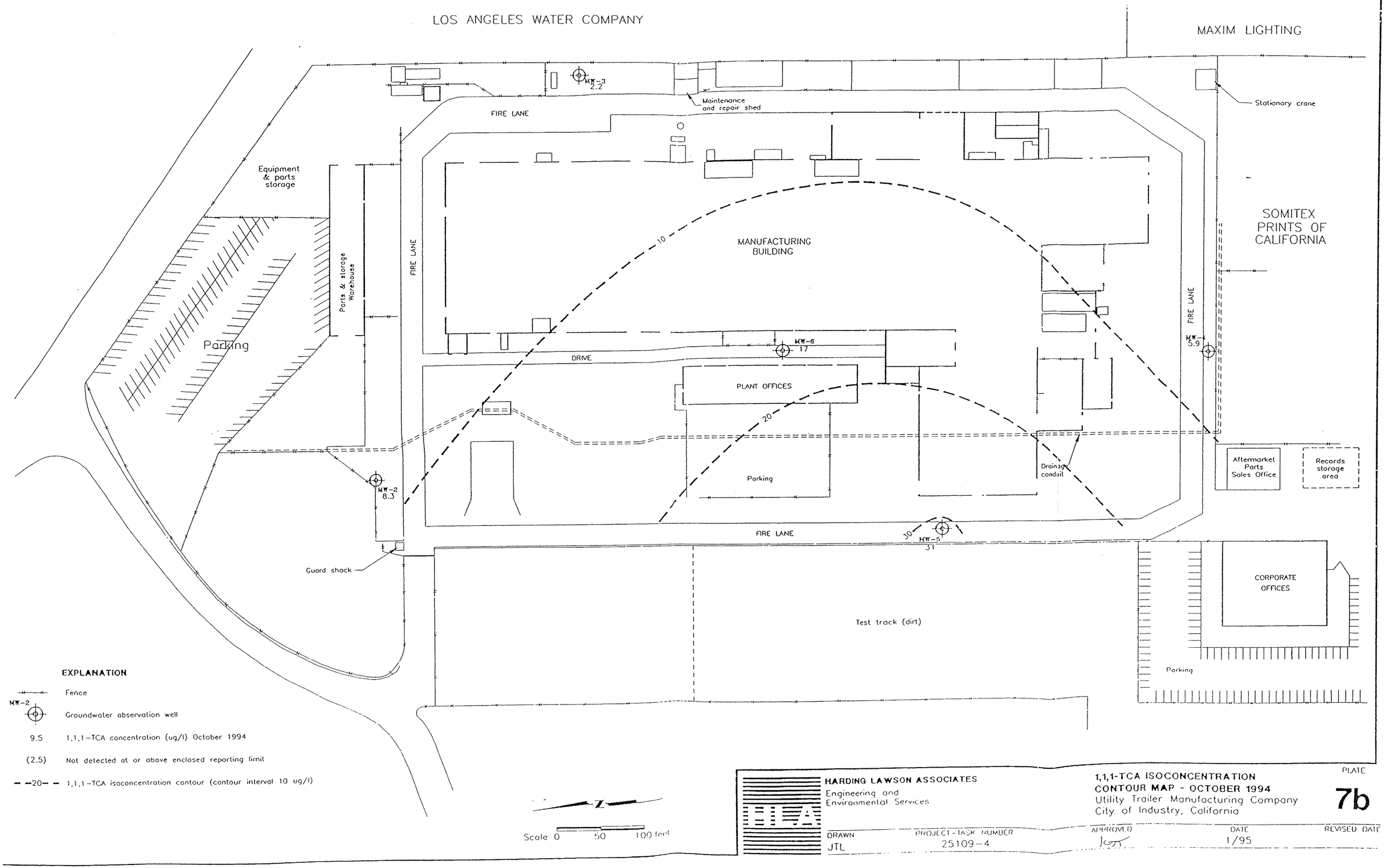
HARDING LAWSON ASSOCIATES
Engineering and Environmental Services

1,1,1-TCA ISOCONCENTRATION CONTOUR MAP - FEBRUARY 1994
Utility Trailer Manufacturing Company
City of Industry, California

PLATE **7a**

DRAWN	PROJECT-TASK NUMBER	APPROVED	DATE	REVISED DATE
JTL	25109-4	KJT	12/94	

UTM 005118



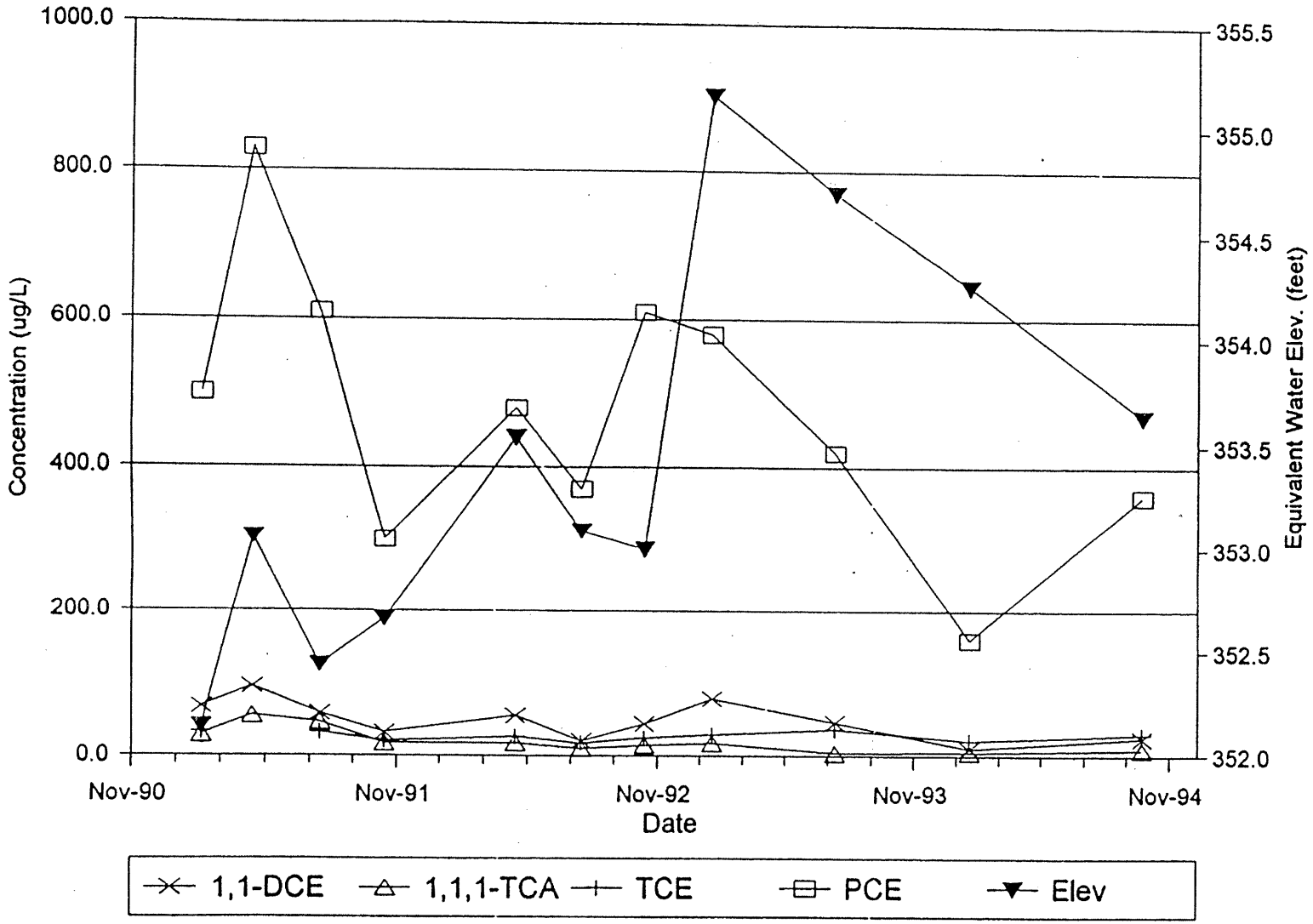
HARDING LAWSON ASSOCIATES
Engineering and Environmental Services

1,1,1-TCA ISOCONCENTRATION CONTOUR MAP - OCTOBER 1994
Utility Trailer Manufacturing Company
City of Industry, California

PLATE **7b**

DRAWN	PROJECT-TASK NUMBER	APPROVED	DATE	REVISED DATE
JTL	25109-4		1/95	

UTM 005119



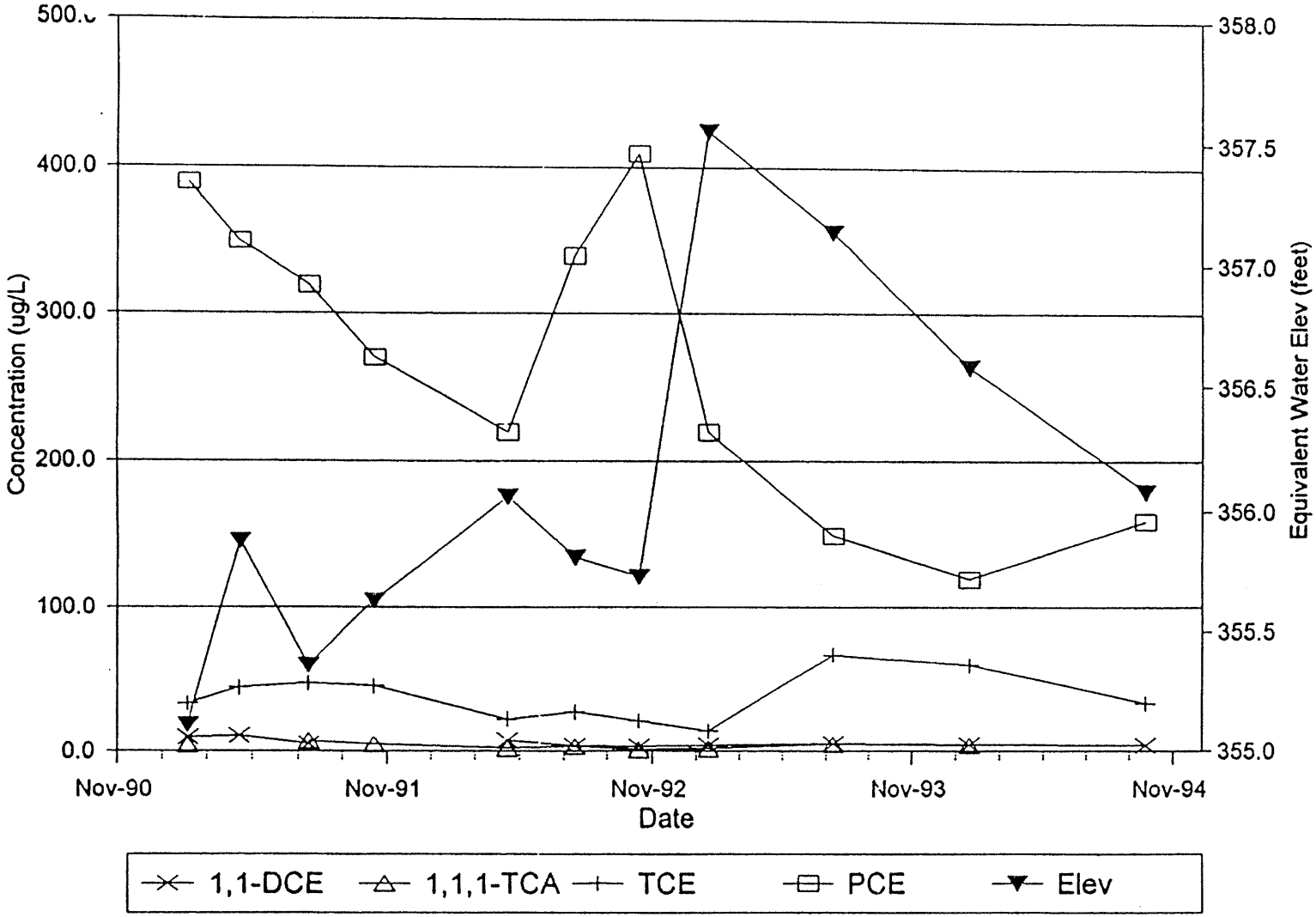
HARDING LAWSON ASSOCIATES
Engineering and
Environmental Services

CONCENTRATION AND GROUNDWATER ELEVATION VERSUS TIME - MW-02
Utility Trailer Manufacturing Company
City of Industry, California

PLATE
8

DRAWN	PROJECT-TASK NUMBER	APPROVED	DATE	REVISED DATE
JTL	25109-4		11/94	

UTM 005120



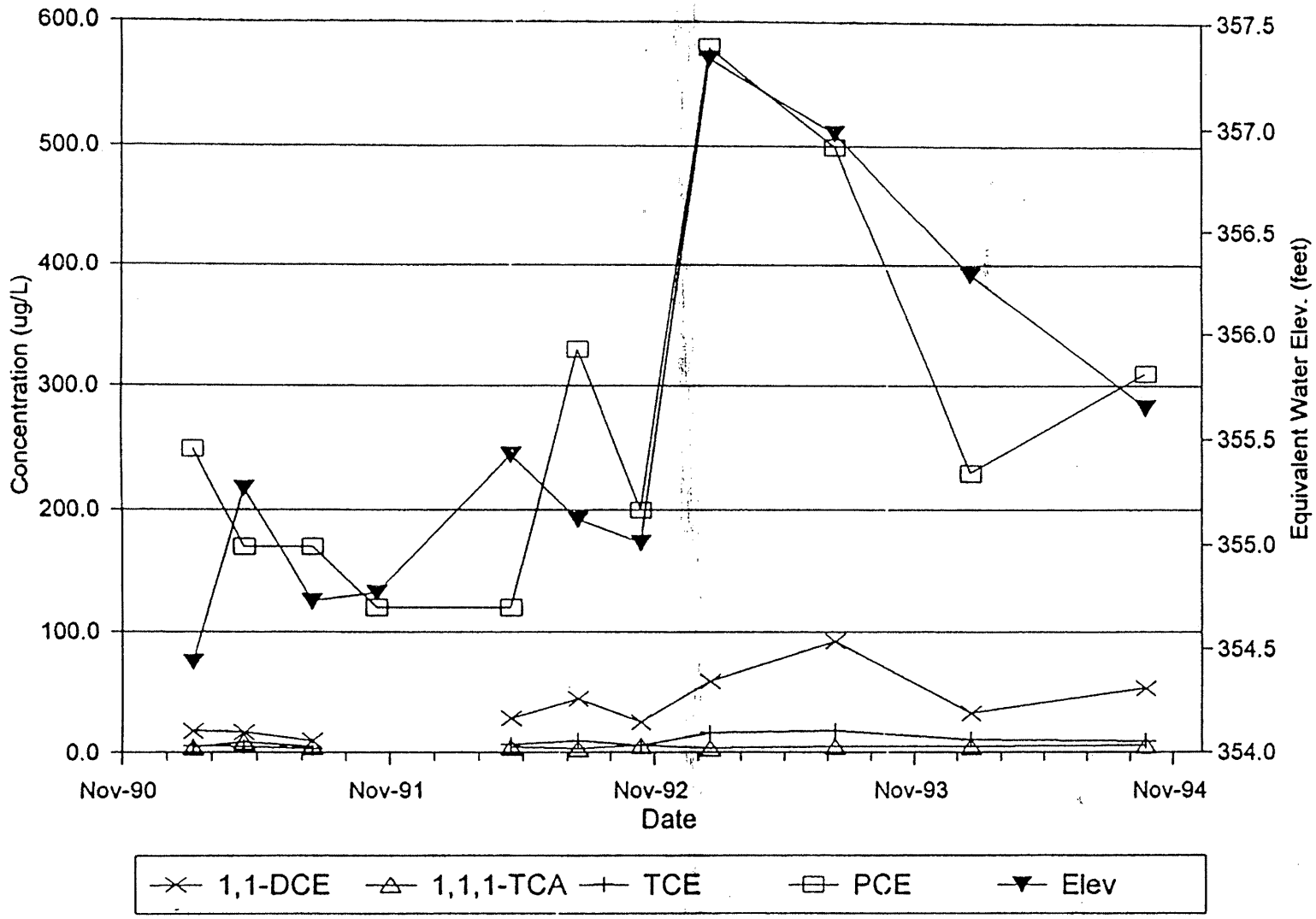
HARDING LAWSON ASSOCIATES
Engineering and Environmental Services

CONCENTRATION AND GROUNDWATER ELEVATION VERSUS TIME - MW-03
Utility Trailer Manufacturing Company
City of Industry, California

PLATE **9**

DRAWN	PROJECT-TASK NUMBER	APPROVED	DATE	REVISED DATE
JTL	25109-4	KOT	11/94	

UTM 005121



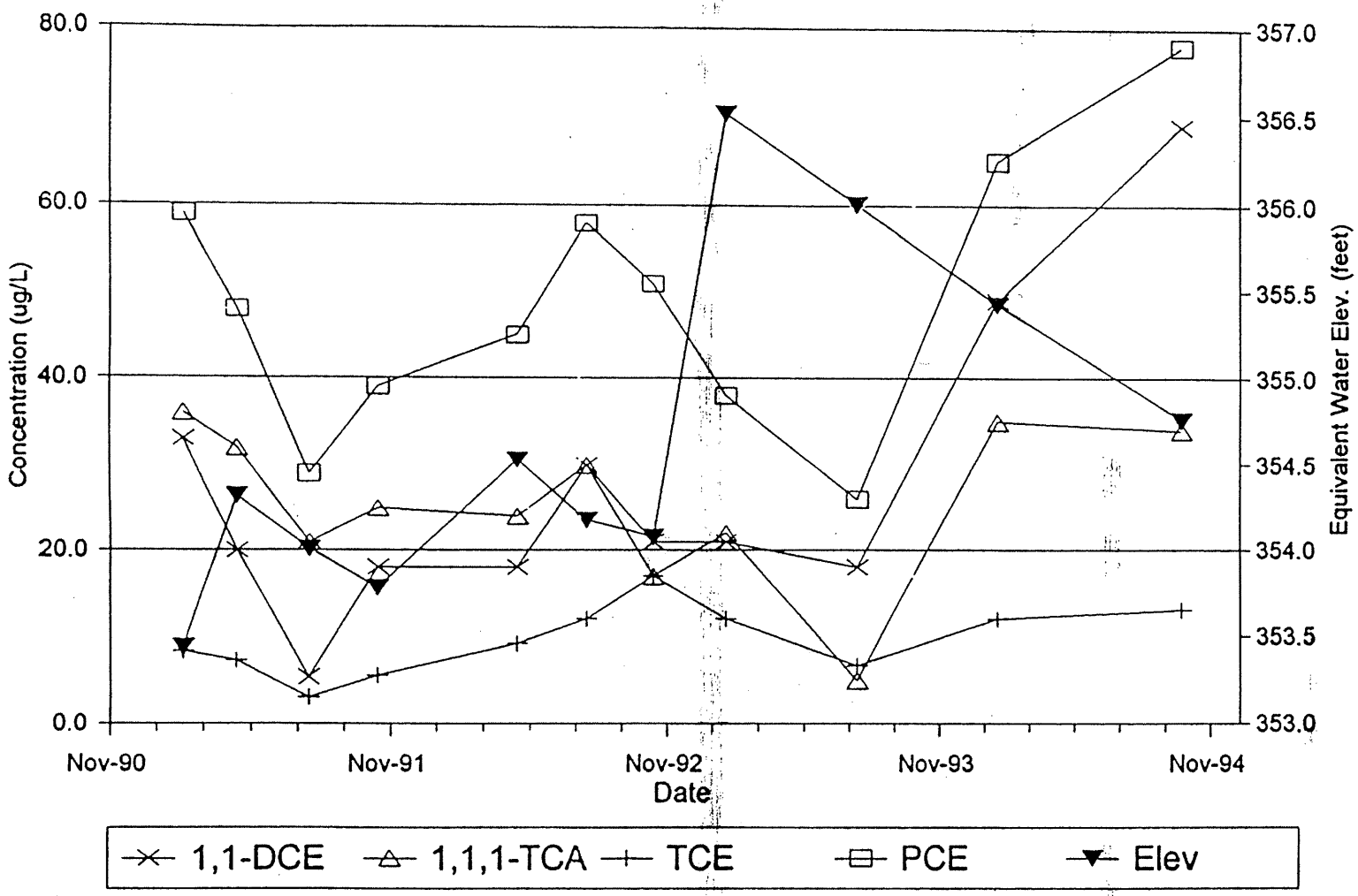
HARDING LAWSON ASSOCIATES
Engineering and
Environmental Services

CONCENTRATION AND GROUNDWATER ELEVATION VERSUS TIME - MW-04
Utility Trailer Manufacturing Company
City of Industry, California

PLATE **10**

DRAWN	PROJECT-TASK NUMBER	APPROVED	DATE	REVISED DATE
JTL	25109-4	KOT	11/94	

UTM 005122



HARDING LAWSON ASSOCIATES
Engineering and Environmental Services

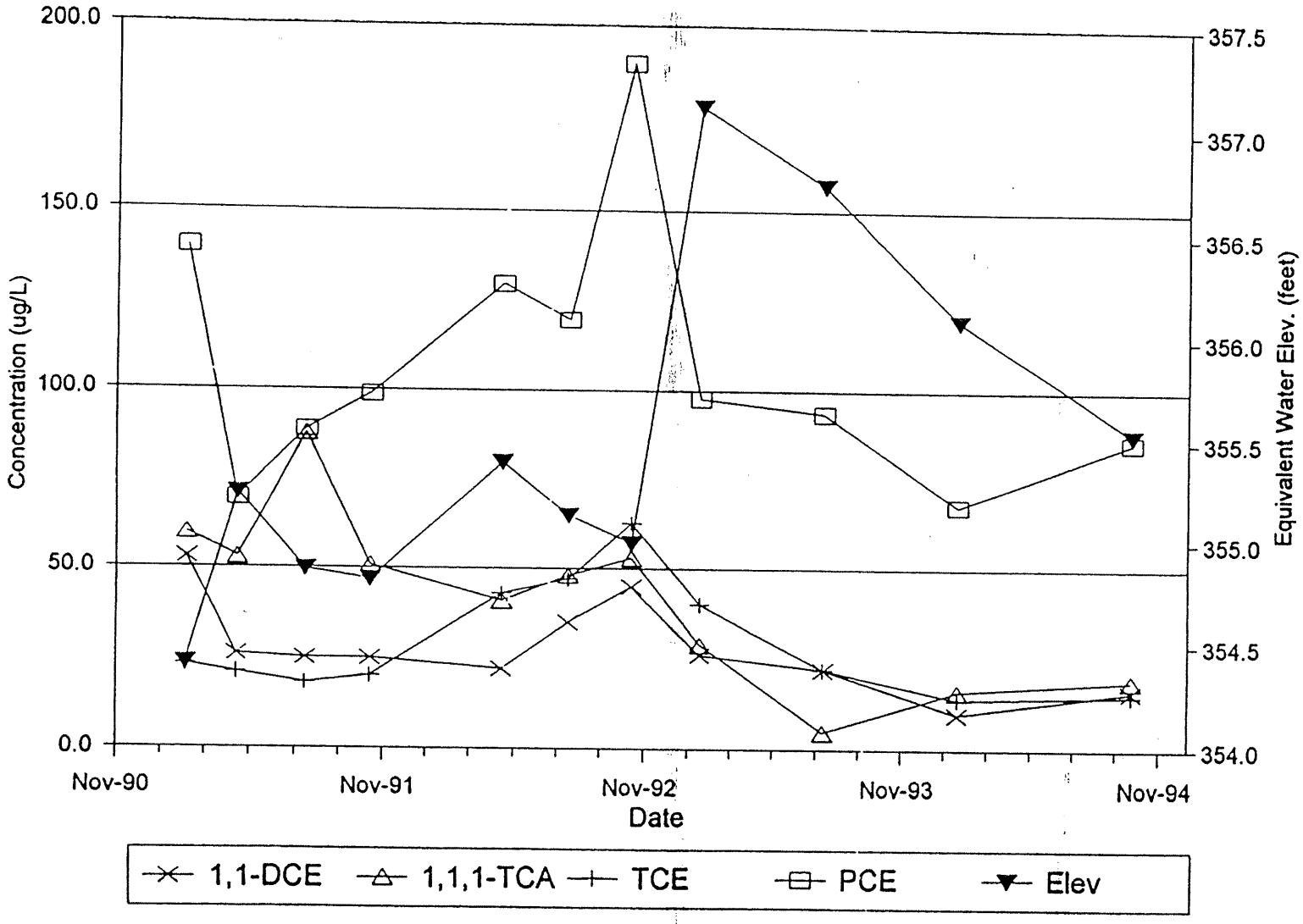
CONCENTRATION AND GROUNDWATER ELEVATION VERSUS TIME - MW-05
Utility Trailer Manufacturing Company
City of Industry, California

PLATE **11**

DRAWN	PROJECT-TASK NUMBER	APPROVED	DATE	REVISED DATE
JTL	25109-4	KJT	11/94	

UTM 005123

HDT\25109\4\1194G1



HARDING LAWSON ASSOCIATES
Engineering and
Environmental Services

CONCENTRATION AND GROUNDWATER ELEVATION VERSUS TIME - MW-06
Utility Trailer Manufacturing Company
City of Industry, California

PLATE **12**

DRAWN	PROJECT-TASK NUMBER	APPROVED	DATE	REVISED DATE
JTL	25109-4		11/94	

UTM 005124

APPENDIX A

UTM 005125

APPENDIX A

WELL PURGING DATA

Environmental Services

Job Name UTM

Number 28739-05

Recorded by R.R. (Signature)

Well No. MW-02

Well Type: ☒ Monitor ☐ Extraction ☐ Other

Well Material: ☒ PVC ☐ St. Steel ☐ Other

Date 10/14/94 Time 1145

Sampled by RR/JF (Printed)

PURGE PROCEDURE

PURGE VOLUME

Casing Diameter (D in inches):
☐ 2-inch ☒ 4-inch ☐ 6-inch ☐ Other

Total Depth of Casing (TD in feet BTOC):

Water Level Depth (WL in feet BTOC):

Number of Well Volumes to be purged (# Vols)
☐ 3 ☒ 4 ☐ 5 ☐ 10 ☐ Other

PURGE METHOD

☐ Bailer - Type:
☒ Submersible ☐ Centrifugal ☐ Bladder; Pump No.:
☐ Other - Type:

PUMP INTAKE LOCATION

☒ Near Bottom ☐ Near Top ☐ Other
Depth in feet (BTOC): Screen Interval in Feet (BTOC) from to

PURGE VOLUME CALCULATION

(43.80 TD (feet) - 23.46 WL (feet)) X 4 D (inches)^2 X 4 # Vols X 0.0408 = 53. gallons Calculated Purge Volume

PURGE TIME

10:57 Start Stop Elapsed

PURGE RATE

Initial 12/2 = 6 gpm Final gpm

ACTUAL PURGE VOLUME

22 gallons

FIELD PARAMETER MEASUREMENTS

Minutes Since Pumping Began	pH	Cond. (µmhos/cm)	T ☐ °C ☒ °F	Other
Initial	7.65	2070	76.	16.3
10:59 12 gls.	7.03	2110	75.1	12.8
30 gls.	6.99	2050	74	20.5
36 gls.	7.03	2050	75.6	13.5
12 of 46 gls.	6.99	2110	75.2	7.0

Minutes Since Pumping Began	pH	Cond. (µmhos/cm)	T ☐ °C ☐ °F	Other
55 gls.	7.03	2140	75.	4.7
65 gls.	7.00	2030	75.1	2.5
Meter Nos.				

Observations During Purging (Well Condition, Turbidity, Color, Odor):

Discharge Water Disposal: ☐ Sanitary Sewer ☐ Storm Sewer ☐ Other

SAMPLE COLLECTION PROCEDURE

SAMPLING METHOD

☐ Same As Above
☐ Bailer - Type:
☐ Grab - Type:
☐ Submersible ☐ Centrifugal ☐ Bladder; Pump No.:
☐ Other - Type:

SAMPLE INFORMATION

Sample Series:

Sample No.	Volume/Cont.	Analysis Requested	Preservatives	Lab	Comments
MW-02	2x40ml	8010	HCL	Del Mar	

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.

Other Samples

Type	Sample No.

Environmental Services

Job Name: UTM

Job Number: 28739-05

Recorded by: RR/JF (Signature)

Well No.: MW-03

Well Type: ☒ Monitor ☐ Extraction ☐ Other

Well Material: ☒ PVC ☐ St. Steel ☐ Other

Date: 10-14-94 Time: 1040

Sampled by: RR/JF (Initials)

WELL PURGING

PURGE METHOD

Casing Diameter (D in inches):
☐ 2-inch ☐ 4-inch ☐ 6-inch ☐ Other

Total Depth of Casing (TD in feet BTOC):

Water Level Depth (WL in feet BTOC):

Number of Well Volumes to be purged (# Vols)
☐ 3 ☐ 4 ☐ 5 ☐ 10 ☐ Other

PUMP

☐ Bailer - Type:
☒ Submersible ☐ Centrifugal ☐ Bladder; Pump No.:
☐ Other - Type: Grundfos

PUMP INTAKE

☒ Near Bottom ☐ Near Top ☐ Other

Depth in feet (BTOC): Screen Interval in Feet (BTOC) from to

PURGE VOLUME

(38.30 - 22.44) X 4 ^{2} X 4 X 0.0408 = 41.4 gallons

TD (feet) WL (feet) D (inches) # Vols Calculated Purge Volume

PURGE TIME

1046 Start Stop Elapsed

PURGE RATE

Initial 5/2 gpm Final gpm

ACTUAL PURGE VOLUME

44.5 gallons

80% recovery = 25.6' bgs

WELL PARAMETERS MEASUREMENTS

Minutes Since Pumping Began	pH	Cond. (µmhos/cm)	T ☐ °C ☐ °F	Other Turb. NTU
Initial	6.95	1820	72.9	13.1
1046/5 gl	6.85	2130	72.4	6.0
1051/11 gls	6.93	2150	72.5	16.30
1057/18 gls	6.93	2160	73.0	1.80
1104/25 gls		decreased	flow	

Minutes Since Pumping Began	pH	Cond. (µmhos/cm)	T ☐ °C ☐ °F	Other
1107/27.5 gl	6.95	2170	74.7	14.41
1113/32.5 gl	7.0	2200	74.9	3.70
1125/44.5	7.01	220	74.8	3.57
Meter Nos.				

Observations During Purging (Well Condition, Turbidity, Color, Odor): First semi-clear / after clear. (18 gls)

Discharge Water Disposal: ☐ Sanitary Sewer ☐ Storm Sewer ☐ Other

WELL SAMPLING

SAMPLING METHOD

☐ Same As Above

☐ Bailer - Type:
☐ Submersible ☐ Centrifugal ☐ Bladder; Pump No.:

☐ Grab - Type:
☐ Other - Type:

SAMPLE INSTRUMENTATION

Sample Series:

Sample No.	Volume/Cont.	Analysis Requested	Preservatives	Lab	Comments
MW-03	2x 40ml	8010	HCL	Del Mar	

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.

Other Samples

Type	Sample No.

Environmental Services

Job Name UTM

Number 28739-05

Recorded by [signature]

Well No. MW-04

Well Type: ☑ Monitor ☐ Extraction ☐ Other

Well Material: ☑ PVC ☐ St. Steel ☐ Other

Date 10/14/94 Time

Sampled by DL / JF

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches):
☐ 2-inch ☑ 4-inch ☐ 6-inch ☐ Other

Total Depth of Casing (TD in feet BTOC):

Water Level Depth (WL in feet BTOC):

Number of Well Volumes to be purged (# Vols)
☐ 3 ☑ 4 ☐ 5 ☐ 10 ☐ Other

PURGE EQUIPMENT

☐ Bailer - Type:
☑ Submersible ☐ Centrifugal ☐ Bladder; Pump No.:
☐ Other - Type:

PUMP INTAKE LOCATION

☑ Near Bottom ☐ Near Top ☐ Other
Depth in feet (BTOC): Screen Interval in Feet (BTOC) from to

PURGE VOLUME CALCULATION

(54.0 − 27.93) × 4² × 4 × 0.0408 = 68.091 gallons

TD (feet) WL (feet) D (inches) # Vols Calculated Purge Volume

PURGE TIME

12:40 Start 13:00 Stop Elapsed

PURGE RATE

Initial 3.5 gpm Final gpm

TOTAL PURGE VOLUME

69 gallons

FIELD PARAMETER MEASUREMENTS

Minutes Since Pumping Began	pH	Cond. (µmhos/cm)	T ☐ °C ☐ °F	Other turbid. NTU
Initial	7.0	2230	77	17.4
12:42 7 gls.	7.03	2030	73.6	12.5
12:45, 18 gls	7.13	1900	73.0	8.8
19, 33 gls.	7.10	1780	71.3	2.9
1:-52, 45 gls	7.12	1790	71.4	3.0

Minutes Since Pumping Began	pH	Cond. (µmhos/cm)	T ☐ °C ☐ °F	Other
12:59, 65 gls.	7.13	1750	71.0	1.3
Meter Nos.				

Observations During Purging (Well Condition, Turbidity, Color, Odor):

Discharge Water Disposal: ☐ Sanitary Sewer ☐ Storm Sewer ☐ Other

WELL SAMPLING

SAMPLING METHOD

☐ Same As Above

☐ Bailer - Type:
☐ Grab - Type:
☐ Submersible ☐ Centrifugal ☐ Bladder; Pump No.:
☐ Other - Type:

SAMPLING DISTRIBUTION

Sample Series:

Sample No.	Volume/Cont.	Analysis Requested	Preservatives	Lab	Comments
MW-04	2x40ml	8010	HCL	Del Mar	

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.
MW-04	MW-07

Blank Samples

Type	Sample No.

Other Samples

Type	Sample No.

Environmental Services

Job Name Utility Trailer

Number 24739-05

Recorded by R Bay (Signature)

Well No. MW-05

Well Type: ☒ Monitor ☐ Extraction ☐ Other

Well Material: ☒ PVC ☐ St. Steel ☐ Other

Date 10/4/94 Time 0900

Sampled by RBLSF (Initials)

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches):
☐ 2-inch ☒ 4-inch ☐ 6-inch ☐ Other

Total Depth of Casing (TD in feet ~~BTOC~~): 44.92

Water Level Depth (WL in feet ~~BTOC~~): 36.42

Number of Well Volumes to be purged (# Vols)
☐ 3 ☒ 4 ☐ 5 ☐ 10 ☐ Other

PUMP TYPE

☐ Bailer - Type:
☒ Submersible ☐ Centrifugal ☐ Bladder; Pump No.:
☐ Other - Type:

PUMP INTAKE LOCATION

☒ Near Bottom ☐ Near Top ☐ Other
Depth in feet (BTOC): Screen Interval in Feet (BTOC) from to

PURGE VOLUME CALCULATION

(44.92 TD (feet) - 36.42 WL (feet)) X 4 D (inches)^2 X 4 # Vols X 0.0408 = 48 gallons Calculated Purge Volume

PURGE TIME

922 Start Stop Elapsed

PURGE RATE

Initial 10 gpm Final 5 gpm

ACTUAL PURGE VOLUME

50 gallons

FIELD PARAMETER MEASUREMENTS

Minutes Since Pumping Began	pH	Cond. (µmhos/cm)	T ☐ °C ☒ °F	Other Turb
Initial	8.07	782	65	9.44
3/15 gal	6.96	1570	65.4	10.35
25 gal	6.94	1550	65.2	8.55
50 gl.	6.98	1660	65.8	2.93

Minutes Since Pumping Began	pH	Cond. (µmhos/cm)	T ☐ °C ☐ °F	Other
Meter Nos.				

Observations During Purging (Well Condition, Turbidity, Color, Odor): well lid stripped

Discharge Water Disposal: ☐ Sanitary Sewer ☐ Storm Sewer ☒ Other Drums

WELL SAMPLING

SAMPLING METHOD

☒ Bailer - Type: 1" stainless
☐ Submersible ☐ Centrifugal ☐ Bladder; Pump No.:

☐ Same As Above
☐ Grab - Type:
☐ Other - Type:

SAMPLING DISTRIBUTION

Sample Series:

Sample No.	Volume/Cont.	Analysis Requested	Preservatives	Lab	Comments
MW-05	2x40ml	8010	HCL	DO/MWI	

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Equip	MW-03

Other Samples

Type	Sample No.

Environmental Services

Job Name UTM

Job Number 28739-05

Recorded by R. Rg (Signature)

Well No. MW-06

Well Type: ☒ Monitor ☐ Extraction ☐ Other

Well Material: ☒ PVC ☐ St. Steel ☐ Other

Date 10/14/94 Time 0950

Sampled by RR/JF (Initials)

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches):
☐ 2-inch ☒ 4-inch ☐ 6-inch ☐ Other

Total Depth of Casing (TD in feet BTOC):

Water Level Depth (WL in feet BTOC):

Number of Well Volumes to be purged (# Vols)
☐ 3 ☒ 4 ☐ 5 ☐ 10 ☐ Other

PURGE METHOD

☐ Bailer - Type:
☒ Submersible ☐ Centrifugal ☐ Bladder; Pump No.:
☐ Other - Type:

PUMP INTAKE SETTING

☒ Near Bottom ☐ Near Top ☐ Other
Depth in feet (BTOC): Screen Interval in Feet (BTOC) from to

PURGE VOLUME CALCULATION

(39.80 - 24.65) X 4 ^{2} X 4 X 0.0408 = 40 gallons

TD (feet) WL (feet) D (inches) # Vols Calculated Purge Volume

PURGE TIME

0.05 Start Stop Elapsed

PUMPING RATE

Initial 20/5 gpm Final 10/3 gpm

TOTAL PURGE VOLUME

40 gallons

INDICATOR PARAMETER MEASUREMENTS

Minutes Since Pumping Began	pH	Cond. (µmhos/cm)	T ☐ °C ☐ °F	Other TURB
Initial	7.10	1700	67	57.3
10 gls.	7.19	1740	69	4.5
1044 20	7.3	1750	69.5	2.6
1130	7.00	1750	69.9	1.90
1140	7.00	1750	69.8	1.70

Minutes Since Pumping Began	pH	Cond. (µmhos/cm)	T ☐ °C ☐ °F	Other
Meter Nos.				

Observations During Purging (Well Condition, Turbidity, Color, Odor): fine turbid then clear/no odor

Discharge Water Disposal: ☐ Sanitary Sewer ☐ Storm Sewer ☒ Other At 55 gls. from.

WELL SAMPLING

SAMPLING METHOD

☐ Same As Above

☐ Bailer - Type:
☐ Grab - Type:
☐ Submersible ☐ Centrifugal ☐ Bladder; Pump No.:
☐ Other - Type:

SAMPLING DISTRIBUTION Sample Series:

Sample No.	Volume/Cont.	Analysis Requested	Preservatives	Lab	Comments
MW-06	2x40 ml	8010	HCL	Del Mar	

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.

Other Samples

Type	Sample No.

15621 Redhill Avenue, Suite 100
Tustin, California 92680
714/259-7992 — 213/617-7232
Telecopy: 714/259-1378

CHAIN OF CUSTODY FORM

Lab: Del Mar

Job Number: 28731-05

Name/Location: UTM

Project Manager: B. Eisman

Samplers: R. Rogers, J. Fausto

Recorder: R. Rogers (Signature Required)

SOURCE CODE	MATRIX: Water	Sediment	Soil	Oil	#CONTAINERS & PRESERV.: Unpres.	H_2SO_4	HNO_3	HCl	SAMPLE NUMBER OR LAB NUMBER: Yr	Wk	Seq	DATE: Yr	Mo	Dy	Time	STATION DESCRIPTION/ NOTES	EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	Priority Pltnt. Metals	Benzene/Toluene/Xylene	Total Petrol. Hydrocarb.
	X							2				94	10	14	0935	MW-08	X						
															0940	MW-05							
															1020	MW-06							
															1110	MW-03							
															1220	MW-02							
															1310	MW-04							
	X											94	10	14	1315	MW-07	X						

LAB NUMBER: Yr	Wk	Seq	DEPTH IN FEET	COL MTD CD	QA CODE	MISCELLANEOUS
						Detection Limit must be 1 ug/l
						Procedure must meet WIP Requirements

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
RR 1425 10/14/94	[illegible]	10/14/94 1[illegible]
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
DISPATCHED BY: (Signature) DATE/TIME	RECEIVED FOR LAB BY: (Signature)	DATE/TIME
METHOD OF SHIPMENT		

Laboratory Copy Project Office Copy Field or Office Copy

APPENDIX B

APPENDIX B

LABORATORY REPORTS/QUALITY ASSURANCE-QUALITY CONTROL DATA, LETTER OF EXPLANATION CHAIN-OF-CUSTODY DOCUMENTATION

Del Mar Analytical

2852 Alton Ave., Irvine, CA 92714 (714) 261-1022 FAX (714) 261-12.
1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
16525 Sherman Way, Suite C-11, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843
2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

January 13, 1995

Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707

Attention: Kurt Wiebe

Subject: Project I.D. 28739-05, UTM

Dear Mr. Wiebe:

I reviewed the data for project UTM, submitted to Del Mar Analytical on October 14, 1994. On October 18, the samples were initially analyzed without dilution. Later the same day, dilutions of the samples which contained analytes above the calibration range of the gas chromatograph detectors were analyzed to obtain quantitative results. The results from the diluted sample analyses were included in the report to Harding Lawson Associates.

Per your request, I issued a second report with the results for the UTM samples which were analyzed without dilution. Since sample MW-08 did not contain any analytes which exceeded the calibration range, the sample was analyzed only once and the results are the same in both reports. In this second report, you will notice that all results which exceed the calibration range of the gas chromatograph were reported with a ">" symbol. In some instances, these high concentration analytes, especially tetrachloroethene, interfered with analysis of other analytes. Please also note that although some variation exists between the results from the diluted and the undiluted samples, there is a high degree of reproducibility between the results.

If there are any questions, please call me at (714) 261-1022.

Sincerely,

DEL MAR ANALYTICAL

Mark Weiner

Mark Weiner
Laboratory Manager

Del Mar Analytical

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1538

Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Brad Eismen

Method Blank

Analyzed: Oct 18, 1994
Reported: Oct 19, 1994
Matrix: Water

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)
Bromodichloromethane	0.50	N.D.
Bromoform	0.50	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	1.0	N.D.
Chloroethane	2.5	N.D.
2-Chloroethylvinyl ether	2.5	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	1.0	N.D.
1,3-Dichlorobenzene	1.0	N.D.
1,4-Dichlorobenzene	1.0	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	0.50	N.D.
Vinyl chloride	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Mark Weiner
Laboratory Manager

Surrogate Standard Recovery:	
4-Bromofluorobenzene	107%

Results pertain only to samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical

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16525 Sherman Way, Suite C-11, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843
2465 W 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates	Client Project ID: 28739-05	Sampled:	Oct 14, 1994
3 Hutton Centre, Suite 300	UTM	Received:	Oct 14, 1994
Santa Ana, CA 92707	Sample Descript: Water, MW-08	Analyzed:	Oct 18, 1994
Attention: Brad Eismen	Lab Number: DJ03279	Reported:	Oct 19, 1994

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)
Bromodichloromethane	0.50	N.D.
Bromoform	0.50	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	1.0	N.D.
Chloroethane	2.5	N.D.
2-Chloroethylvinyl ether	2.5	N.D.
Chloroform	**0.50**	**0.95**
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	1.0	N.D.
1,3-Dichlorobenzene	1.0	N.D.
1,4-Dichlorobenzene	1.0	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	0.50	N.D.
Vinyl chloride	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Mark Weiner
Laboratory Manager

Surrogate Standard Recovery:	
4-Bromofluorobenzene	107%

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-133

Harding Lawson Associates	Client Project ID: 28739-05	Sampled:	Oct 14, 1994
3 Hutton Centre, Suite 300	UTM	Received:	Oct 14, 1994
Santa Ana, CA 92707	Sample Descript: Water, MW-05	Analyzed:	Oct 18, 1994
Attention: Brad Eismen	Lab Number: DJ03280	Reported:	Oct 19, 1994

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)
Bromodichloromethane	0.50	N.D.
Bromoform	0.50	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	1.0	N.D.
Chloroethane	2.5	N.D.
2-Chloroethylvinyl ether	2.5	N.D.
Chloroform	**0.50**	**0.89**
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	1.0	N.D.
1,3-Dichlorobenzene	1.0	N.D.
1,4-Dichlorobenzene	1.0	N.D.
1,1-Dichloroethane	**0.50**	**13**
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	**0.50**	**> 50**
cis-1,2-Dichloroethene	**0.50**	**0.66**
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	**0.50**	**> 50**
1,1,1-Trichloroethane	**0.50**	**31**
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	**0.50**	**11**
Trichlorofluoromethane	**0.50**	**0.53**
Vinyl chloride	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Mark Weiner
Laboratory Manager

Surrogate Standard Recovery:	
4-Bromofluorobenzene	120%

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16525 Sherman Way, Suite C-11, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843
2465 W 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates	Client Project ID: 28739-05	Sampled:	Oct 14, 1994
3 Hutton Centre, Suite 300	UTM	Received:	Oct 14, 1994
Santa Ana, CA 92707	Sample Descript: Water, MW-06	Analyzed:	Oct 18, 1994
Attention: Brad Eismen	Lab Number: DJ03281	Reported:	Oct 19, 1994

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)
Bromodichloromethane	0.50	N.D.
Bromoform	0.50	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	1.0	N.D.
Chloroethane	2.5	N.D.
2-Chloroethylvinyl ether	2.5	N.D.
Chloroform	**0.50**	**0.86**
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	1.0	N.D.
1,3-Dichlorobenzene	1.0	N.D.
1,4-Dichlorobenzene	1.0	N.D.
1,1-Dichloroethane	**0.50**	**4.9**
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	**0.50**	**18**
cis-1,2-Dichloroethene	**0.50**	**0.57**
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	**0.50**	**> 50**
1,1,1-Trichloroethane	**0.50**	**17**
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	**0.50**	**13**
Trichlorofluoromethane	0.50	N.D.
Vinyl chloride	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Mark Weiner
Laboratory Manager

Surrogate Standard Recovery:	
4-Bromofluorobenzene	113%

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates	Client Project ID: 28739-05	Sampled:	Oct 14, 1994
3 Hutton Centre, Suite 300	UTM	Received:	Oct 14, 1994
Santa Ana, CA 92707	Sample Descript: Water, MW-03	Analyzed:	Oct 18, 1994
Attention: Brad Eismen	Lab Number: DJ03282	Reported:	Oct 19, 1994

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)
Bromodichloromethane	0.50	N.D.
Bromoform	0.50	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	1.0	N.D.
Chloroethane	2.5	N.D.
2-Chloroethylvinyl ether	2.5	N.D.
Chloroform	**0.50**	**2.3**
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	1.0	N.D.
1,3-Dichlorobenzene	1.0	N.D.
1,4-Dichlorobenzene	1.0	N.D.
1,1-Dichloroethane	**0.50**	**1.1**
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	**0.50**	**4.8**
cis-1,2-Dichloroethene	**0.50**	**6.6**
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	**0.50**	**> 50**
1,1,1-Trichloroethane	**0.50**	**2.2**
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	**0.50**	**> 20**
Trichlorofluoromethane	**0.50**	**12**
Vinyl chloride	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Mark Weiner
Laboratory Manager

Surrogate Standard Recovery:	
4-Bromofluorobenzene	109%

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16525 Sherman Way, Suite C-11, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-184
2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-133

Harding Lawson Associates	Client Project ID: 28739-05	Sampled:	Oct 14, 1994
3 Hutton Centre, Suite 300	UTM	Received:	Oct 14, 1994
Santa Ana, CA 92707	Sample Descript: Water, MW-02	Analyzed:	Oct 18, 1994
Attention: Brad Eismen	Lab Number: DJ03283	Reported:	Oct 19, 1994

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)
Bromodichloromethane	0.50	N.D.
Bromoform	0.50	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	1.0	N.D.
Chloroethane	2.5	N.D.
2-Chloroethylvinyl ether	2.5	N.D.
Chloroform	**0.50**	**1.3**
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	1.0	N.D.
1,3-Dichlorobenzene	1.0	N.D.
1,4-Dichlorobenzene	1.0	N.D.
1,1-Dichloroethane	**0.50**	**17**
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	**0.50**	**30**
cis-1,2-Dichloroethene	**0.50**	**9.7**
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	**0.50**	**> 50**
1,1,1-Trichloroethane	**0.50**	**8.3**
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	**0.50**	**> 20**
Trichlorofluoromethane	**0.50**	**2.8**
Vinyl chloride	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Mark Weiner
Laboratory Manager

Surrogate Standard Recovery:	
4-Bromofluorobenzene	118%

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates	Client Project ID: 28739-05	Sampled:	Oct 14, 1994
3 Hutton Centre, Suite 300	UTM	Received:	Oct 14, 1994
Santa Ana, CA 92707	Sample Descript: Water, MW-04	Analyzed:	Oct 18, 1994
Attention: Brad Eismen	Lab Number: DJ03284	Reported:	Oct 19, 1994

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)
Bromodichloromethane	0.50	N.D.
Bromoform	0.50	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	1.0	N.D.
Chloroethane	2.5	N.D.
2-Chloroethylvinyl ether	2.5	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	1.0	N.D.
1,3-Dichlorobenzene	1.0	N.D.
1,4-Dichlorobenzene	1.0	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	**0.50**	**> 50**
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	**0.50**	**> 50**
1,1,1-Trichloroethane	**0.50**	**5.9**
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	**0.50**	**9.9**
Trichlorofluoromethane	0.50	N.D.
Vinyl chloride	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Mark Weiner
Laboratory Manager

Surrogate Standard Recovery:	
4-Bromofluorobenzene	110%

Results pertain only to samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical

Del Mar Analytical

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates	Client Project ID: 28739-05	Sampled:	Oct 14, 1994
3 Hutton Centre, Suite 300	UTM	Received:	Oct 14, 1994
Santa Ana, CA 92707	Sample Descript: Water, MW-07	Analyzed:	Oct 18, 1994
Attention: Brad Eismen	Lab Number: DJ03285	Reported:	Oct 19, 1994

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)
Bromodichloromethane	0.50	N.D.
Bromoform	0.50	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	1.0	N.D.
Chloroethane	2.5	N.D.
2-Chloroethylvinyl ether	2.5	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	1.0	N.D.
1,3-Dichlorobenzene	1.0	N.D.
1,4-Dichlorobenzene	1.0	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	**0.50**	**> 50**
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	**0.50**	**> 50**
1,1,1-Trichloroethane	**0.50**	**6.5**
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	**0.50**	**10**
Trichlorofluoromethane	0.50	N.D.
Vinyl chloride	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Mark Weiner
Laboratory Manager

Surrogate Standard Recovery	
4-Bromofluorobenzene	114%

Results pertain only to samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

CRWQCB - L.A. REGION
WELL INVESTIGATION PROGRAM
QA/QC REPORT

PREPARED FOR HARDING LAWSON ASSOCIATES
PROJECT: 28739-05 UTM
SAMPLED: 10/14/94

Del Mar Analytical

2852 Alton Ave., Irvine, CA 92714 (714) 261-1022 FAX (714) 261-1
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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-133

CASE NARRATIVE

CLIENT: HLA
PROJECT: 28739-05 UTM

DATE SAMPLED: 10/14/94
DATE RECEIVED: 10/14/94

SAMPLE DESCRIPTION	LABORATORY NUMBER	SAMPLE MATRIX	EPA ANALYSES
MW-08	DJ03289	WATER	EPA 8010
MW-05	DJ03280	WATER	EPA 8010
MW-06	DJ03281	WATER	EPA 8010
MW-03	DJ03282	WATER	EPA 8010
MW-02	DJ03283	WATER	EPA 8010
MW-04	DJ03284	WATER	EPA 8010
MW-07	DJ03285	WATER	EPA 8010

SAMPLE RECEIPT: Samples were received intact, on ice and with chain of custody documentation.

HOLDING TIMES: Holding times were met.

SAMPLE PREPARATION: EPA 8010 analyses were performed using 0.5 - 5.0 ml of sample per analysis.

INSTRUMENTATION: EPA 8010 analyses were performed on a HP 5890 Series II gas chromatograph. The primary column was a 105 m, 0.53 u, Rtx-502.2. The confirmation column was a 105 m, 0.53 u, Rtx-1.

PROBLEMS ENCOUNTERED: No problems were encountered during sample analysis

QA/QC CRITERIA: Results for analytes which exceed the linear range of the detector are reported with a ">" symbol. Excessively large peaks may have interfered with the analysis of other analytes. The quatitated values for the high level analytes are located with the original report for this project.

OBSERVATIONS: For all samples which contained analytes at signifigantly different concentrations, multiple dilutions of the samples were analyzed to accurately quantitate each analyte.

DEL MAR ANALYTICAL

Mark Weiner

Mark Weiner
Laboratory Manager

Harding Lawson Associates
15621 Redhill Avenue, Suite 100
Tustin, California 92680
714/259-7992 — 213/617-7232
Telecopy: 714/259-1378

CHAIN OF CUSTODY FORM

Lab: Del Mar

Job Number: 28739-05
Name/Location: UTM
Project Manager: B. EISMAN

Samplers: R. Rogers, J. Fausto
Recorder: R. Rg (Signature Required)

SOURCE CODE	MATRIX: Water	Sediment	Soil	Oil	#CONTAINERS & PRESERV.: Unpres.	H_2SO_4	HNO_3	HCl	SAMPLE NUMBER OR LAB NUMBER: Yr	Wk	Seq	DATE: Yr	Mo	Dy	Time	STATION DESCRIPTION/ NOTES	EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	Priority Pllnt. Metals	Benzene/Toluene/Xylene	Total Petrol. Hydrocarb.
	X							2				94	10	14	0935	MW-08	X						
	↓							↓				↓	↓	↓	0940	MW-05	↓						
															1020	MW-06							
															1110	MW-03							
															1220	MW-02							
															1310	MW-04							
	X							2				94	10	14	1315	MW-07	X						

LAB NUMBER: Yr	Wk	Seq	DEPTH IN FEET	COL MTD CD	QA CODE	MISCELLANEOUS
						Detection Limit must be 1 ug/l
						Procedure must meet WIP Requirements
						Intact / C001

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
RR 1425	D. Walen	10/14/94 1425
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	RECEIVED BY (Signature)	DATE/TIME
RELINQUISHED BY (Signature)	RECEIVED BY (Signature)	DATE/TIME
DISPATCHED BY (Signature) DATE/TIME	RECEIVED FOR LAB BY: (Signature)	DATE/TIME
METHOD OF SHIPMENT		

Laboratory Copy White — Project Office Copy Yellow — Field or Office Copy Pink

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD

LOS ANGELES REGION

LABORATORY REPORT FORM

Laboratory Name: Del Mar Analytical

Address: 2852 Alton Avenue Irvine, CA 92714

Telephone: (714) 261-1022

Laboratory Certification (ELAP) No.: 1197 Expiration Date: May 31, 1996

Laboratory Director's Name: Gary Steube

Laboratory Director's Signature: Mark Weiss/Laboratory Manager

Client: Harding Lawson Associates

Project No.: 28739-05 UTM

Analytical Method: (Circle One)	EPA 502.1	EPA 503.1	EPA 502.2	EPA 524.1
				EPA 524.2
	EPA 601	EPA 602		EPA 624
	[EPA 8010]	EPA 8020	EPA 8021	EPA 8240
				EPA 8260
Other				
Date Sampled:	10/14/94			
Date Received:	10/14/94			
Date Reported:	10/19/94			
Sample Matrix:	water			
Extraction Method:	5030			
Extraction Material:	n/a			

Chain of Custody Received: [Yes] No

Sample Condition: intact, cool

-- Sample Headspace Description (%): no headspace

-- Sample Container Material: 40 ml voa vials

(RWQCB LabForm10B;Ves11/92)

Analytical Test Result

Reporting Unit (Circle One): µg/kg **µg/l**

DATE ANALYZED		10/18/94	10/18/94	10/18/94	10/18/94
DATE EXTRACTED		10/18/94	10/18/94	10/18/94	10/18/94
DILUTION FACTOR		1	1	1	1
LAB SAMPLE I.D.		BLANK	DJ03279	DJ03280	DJ03281
CLIENT SAMPLE I.D.		N/A	MW-08	MW-05	MW-06
COMPOUND	**MDL**	**MB**			
Bromobenzene		NA	NA	NA	NA
Bromodichloromethane	0.50	ND	ND	ND	ND
Bromoform	0.50	ND	ND	ND	ND
Bromomethane	0.50	ND	ND	ND	ND
Carbon tetrachloride	0.50	ND	ND	ND	ND
Chloroethane	1.0	ND	ND	ND	ND
Chloroform	0.50	ND	**0.95**	**0.89**	**0.86**
1-Chlorohexane		NA	NA	NA	NA
Chloromethane	0.50	ND	ND	ND	ND
Dibromochloromethane	0.50	ND	ND	ND	ND
Dibromomethane		NA	NA	NA	NA
Dichlorodifluoromethane		NA	NA	NA	NA
1,1-Dichloroethane (1,1-DCA)	0.50	ND	ND	**13**	**4.9**
1,2-Dichloroethane (1,2-DCA)	0.50	ND	ND	ND	ND
1,1-Dichloroethylene (1,1-DCE)	0.50	ND	ND	**> 50**	**18**
trans-1,2-Dichloroethylene	0.50	ND	ND	ND	ND
Dichloromethane	2.5	**7.0**	**8.1**	**7.2**	**6.8**
1,2-Dichloropropane	0.50	ND	ND	ND	ND
cis-1,3-Dichloropropylene	0.50	ND	ND	ND	ND
trans-1,3-Dichloropropylene	0.50	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	0.50	ND	ND	ND	ND
Tetrachloroethylene (PCE)	0.50	ND	ND	**> 50**	**> 50**
1,1,1-Trichloroethane (111-TCA)	0.50	ND	ND	**31**	**17**
1,1,2-Trichloroethane (112-TCA)	0.50	ND	ND	ND	ND
Trichloroethylene (TCE)	0.50	ND	ND	**11**	**13**
1,2,3-Trichloropropane		NA	NA	NA	NA
Trichlorofluoromethane	0.50	ND	ND	**0.53**	ND
Vinyl chloride	1.0	ND	ND	ND	ND
Benzene		NA	NA	NA	NA
Chlorobenzene	0.50	ND	ND	ND	ND
1,2-Dichlorobenzene	0.50	ND	ND	ND	ND
1,3-Dichlorobenzene	0.50	ND	ND	ND	ND
1,4-Dichlorobenzene	0.50	ND	ND	ND	ND
Ethyl benzene		NA	NA	NA	NA
Toluene		NA	NA	NA	NA

ANALYTICAL TEST RESULT (cont'd)

COMPOUND	MDL	MB			
m,p-Xylenes		NA	NA	NA	NA
o-Xylene		NA	NA	NA	NA
Acetone		NA	NA	NA	NA
Acrolein		NA	NA	NA	NA
Acrylonitrile		NA	NA	NA	NA
Bromochloromethane		NA	NA	NA	NA
n-Butylbenzene		NA	NA	NA	NA
sec-Butylbenzene		NA	NA	NA	NA
tert-Butylbenzene		NA	NA	NA	NA
2-Chloroethylvinyl ether	1.0	ND	ND	ND	ND
2-Chlorotoluene		NA	NA	NA	NA
4-Chlorotoluene		NA	NA	NA	NA
Dichlorodifluoromethane		NA	NA	NA	NA
cis-1,2-Dichloroethylene	0.50	ND	ND	0.66	0.57
1,3-Dichloropropane		NA	NA	NA	NA
2,2-Dichloropropane		NA	NA	NA	NA
1,1-Dichloropropylene		NA	NA	NA	NA
Ethylene dibromide (EDB)		NA	NA	NA	NA
Hexachlorobutadiene		NA	NA	NA	NA
Isopropylbenzene		NA	NA	NA	NA
p-Isopropyltoluene		NA	NA	NA	NA
Methyl Ethyl Ketone		NA	NA	NA	NA
Methyl Isobutyl Ketone		NA	NA	NA	NA
Naphthalene		NA	NA	NA	NA
n-Propylbenzene		NA	NA	NA	NA
Styrene		NA	NA	NA	NA
1,2,3-Trichlorobenzene		NA	NA	NA	NA
1,2,4-Trichlorobenzene		NA	NA	NA	NA
1,2,4-Trimethylbenzene		NA	NA	NA	NA
1,3,5-Trimethylbenzene		NA	NA	NA	NA
1,1,2-Trichloro-trifluoroethane		NA	NA	NA	NA

Surrogate	SPK CONC	ACP% %RC	MB	%RC	%RC	%RC
4-Bromofluorobenzene	10	80-120	107	107	120	113

a = Report Any Value > or = MDL; b = Listed Compounds Are Ordered by Laboratory Analytical Methods: Halogenated, Aromatic, then Remaining Compounds Identified by GC/MS.
SPK CONC = Spiking Concentration (< or = 5 x PQL); ACP % = Acceptable Range of Percent; %RC = % Recovery
MDL = Method Detection Limit; MB = Method Blank; ND = Not Detected (Below MDL); NA = Not Analyzed

Analytical Test Result

Reporting Unit (Circle One): µg/kg **µg/l**

DATE ANALYZED		10/18/94	10/18/94	10/18/94	10/18/94
DATE EXTRACTED		10/18/94	10/18/94	10/18/94	10/18/94
DILUTION FACTOR		1	1	1	1
LAB SAMPLE I.D.		BLANK	DJ03282	DJ03283	DJ03284
CLIENT SAMPLE I.D.		N/A	MW-03	MW-02	MW-04
COMPOUND	MDL	MB			
Bromobenzene		NA	NA	NA	NA
Bromodichloromethane	0.50	ND	ND	ND	ND
Bromoform	0.50	ND	ND	ND	ND
Bromomethane	0.50	ND	ND	ND	ND
Carbon tetrachloride	0.50	ND	ND	ND	ND
Chloroethane	1.0	ND	ND	ND	ND
Chloroform	0.50	ND	**2.3**	**1.3**	ND
1-Chlorohexane		NA	NA	NA	NA
Chloromethane	0.50	ND	ND	ND	ND
Dibromochloromethane	0.50	ND	ND	ND	ND
Dibromomethane		NA	NA	NA	NA
Dichlorodifluoromethane		NA	NA	NA	NA
1,1-Dichloroethane (1,1-DCA)	0.50	ND	**1.1**	**17**	ND
1,2-Dichloroethane (1,2-DCA)	0.50	ND	ND	ND	ND
1,1-Dichloroethylene (1,1-DCE)	0.50	ND	**4.8**	**30**	**> 50**
trans-1,2-Dichloroethylene	0.50	ND	ND	ND	ND
Dichloromethane	2.5	**7.0**	**6.7**	**6.4**	**6.1**
1,2-Dichloropropane	0.50	ND	ND	ND	ND
cis-1,3-Dichloropropylene	0.50	ND	ND	ND	ND
trans-1,3-Dichloropropylene	0.50	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	0.50	ND	ND	ND	ND
Tetrachloroethylene (PCE)	0.50	ND	**> 50**	**> 50**	**> 50**
1,1,1-Trichloroethane (111-TCA)	0.50	ND	**2.2**	**8.3**	**5.9**
1,1,2-Trichloroethane (112-TCA)	0.50	ND	ND	ND	ND
Trichloroethylene (TCE)	0.50	ND	**> 20**	**> 20**	**9.9**
1,2,3-Trichloropropane		NA	NA	NA	NA
Trichlorofluoromethane	0.50	ND	**12**	**2.8**	ND
Vinyl chloride	1.0	ND	ND	ND	ND
Benzene		NA	NA	NA	NA
Chlorobenzene	0.50	ND	ND	ND	ND
1,2-Dichlorobenzene	0.50	ND	ND	ND	ND
1,3-Dichlorobenzene	0.50	ND	ND	ND	ND
1,4-Dichlorobenzene	0.50	ND	ND	ND	ND
Ethyl benzene		NA	NA	NA	NA
Toluene		NA	NA	NA	NA

ANALYTICAL TEST RESULT (cont'd)

COMPOUND	MDL	MB			
m,p-Xylenes		NA	NA	NA	NA
o-Xylene		NA	NA	NA	NA
Acetone		NA	NA	NA	NA
Acrolein		NA	NA	NA	NA
Acrylonitrile		NA	NA	NA	NA
Bromochloromethane		NA	NA	NA	NA
n-Butylbenzene		NA	NA	NA	NA
sec-Butylbenzene		NA	NA	NA	NA
tert-Butylbenzene		NA	NA	NA	NA
2-Chloroethylvinyl ether	1.0	ND	ND	ND	ND
2-Chlorotoluene		NA	NA	NA	NA
4-Chlorotoluene		NA	NA	NA	NA
Dichlorodifluoromethane		NA	NA	NA	NA
cis-1,2-Dichloroethylene	0.50	ND	6.6	9.7	ND
1,3-Dichloropropane		NA	NA	NA	NA
2,2-Dichloropropane		NA	NA	NA	NA
1,1-Dichloropropylene		NA	NA	NA	NA
Ethylene dibromide (EDB)		NA	NA	NA	NA
Hexachlorobutadiene		NA	NA	NA	NA
Isopropylbenzene		NA	NA	NA	NA
p-Isopropyltoluene		NA	NA	NA	NA
Methyl Ethyl Ketone		NA	NA	NA	NA
Methyl Isobutyl Ketone		NA	NA	NA	NA
Naphthalene		NA	NA	NA	NA
n-Propylbenzene		NA	NA	NA	NA
Styrene		NA	NA	NA	NA
1,2,3-Trichlorobenzene		NA	NA	NA	NA
1,2,4-Trichlorobenzene		NA	NA	NA	NA
1,2,4-Trimethylbenzene		NA	NA	NA	NA
1,3,5-Trimethylbenzene		NA	NA	NA	NA
1,1,2-Trichloro-trifluoroethane		NA	NA	NA	NA

Surrogate	SPK CONC	ACP% %RC	MB	%RC	%RC	%RC
4-Bromofluorobenzene	10	80-120	107	109	118	110

a = Report Any Value > or = MDL; b = Listed Compounds Are Ordered by Laboratory Analytical Methods: Halogenated, Aromatic, then Remaining Compounds Identified by GC/MS.
SPK CONC = Spiking Concentration (< or = 5 x PQL); ACP % = Acceptable Range of Percent; %RC = % Recovery
MDL = Method Detection Limit; MB = Method Blank; ND = Not Detected (Below MDL); NA = Not Analyzed

Analytical Test Result

Reporting Unit (Circle One): µg/kg **µg/l**

DATE ANALYZED		10/18/94	10/18/94		
DATE EXTRACTED		10/18/94	10/18/94		
DILUTION FACTOR		1	1		
LAB SAMPLE I.D.		BLANK	DJ03285		
CLIENT SAMPLE I.D.		N/A	MW-07		
COMPOUND	**MDL**	**MB**			
Bromobenzene		NA	NA		
Bromodichloromethane	0.50	ND	ND		
Bromoform	0.50	ND	ND		
Bromomethane	0.50	ND	ND		
Carbon tetrachloride	0.50	ND	ND		
Chloroethane	1.0	ND	ND		
Chloroform	0.50	ND	ND		
1-Chlorohexane		NA	NA		
Chloromethane	0.50	ND	ND		
Dibromochloromethane	0.50	ND	ND		
Dibromomethane		NA	NA		
Dichlorodifluoromethane		NA	NA		
1,1-Dichloroethane (1,1-DCA)	0.50	ND	ND		
1,2-Dichloroethane (1,2-DCA)	0.50	ND	ND		
1,1-Dichloroethylene (1,1-DCE)	0.50	ND	**> 50**		
trans-1,2-Dichloroethylene	0.50	ND	ND		
Dichloromethane	2.5	**7.0**	**5.4**		
1,2-Dichloropropane	0.50	ND	ND		
cis-1,3-Dichloropropylene	0.50	ND	ND		
trans-1,3-Dichloropropylene	0.50	ND	ND		
1,1,1,2-Tetrachloroethane		NA	NA		
1,1,2,2-Tetrachloroethane	0.50	ND	ND		
Tetrachloroethylene (PCE)	0.50	ND	**> 50**		
1,1,1-Trichloroethane (111-TCA)	0.50	ND	**6.5**		
1,1,2-Trichloroethane (112-TCA)	0.50	ND	ND		
Trichloroethylene (TCE)	0.50	ND	**10**		
1,2,3-Trichloropropane		NA	NA		
Trichlorofluoromethane	0.50	ND	ND		
Vinyl chloride	1.0	ND	ND		
Benzene		NA	NA		
Chlorobenzene	0.50	ND	ND		
1,2-Dichlorobenzene	0.50	ND	ND		
1,3-Dichlorobenzene	0.50	ND	ND		
1,4-Dichlorobenzene	0.50	ND	ND		
Ethyl benzene		NA	NA		
Toluene		NA	NA		

ANALYTICAL TEST RESULT (cont'd)

COMPOUND	MDL	MB			
m,p-Xylenes		NA	NA		
o-Xylene		NA	NA		
Acetone		NA	NA		
Acrolein		NA	NA		
Acrylonitrile		NA	NA		
Bromochloromethane		NA	NA		
n-Butylbenzene		NA	NA		
sec-Butylbenzene		NA	NA		
tert-Butylbenzene		NA	NA		
2-Chloroethylvinyl ether	1.0	ND	ND		
2-Chlorotoluene		NA	NA		
4-Chlorotoluene		NA	NA		
Dichlorodifluoromethane		NA	NA		
cis-1,2-Dichloroethylene	0.50	ND	ND		
1,3-Dichloropropane		NA	NA		
2,2-Dichloropropane		NA	NA		
1,1-Dichloropropylene		NA	NA		
Ethylene dibromide (EDB)		NA	NA		
Hexachlorobutadiene		NA	NA		
Isopropylbenzene		NA	NA		
p-Isopropyltoluene		NA	NA		
Methyl Ethyl Ketone		NA	NA		
Methyl Isobutyl Ketone		NA	NA		
Naphthalene		NA	NA		
n-Propylbenzene		NA	NA		
Styrene		NA	NA		
1,2,3-Trichlorobenzene		NA	NA		
1,2,4-Trichlorobenzene		NA	NA		
1,2,4-Trimethylbenzene		NA	NA		
1,3,5-Trimethylbenzene		NA	NA		
1,1,2-Trichloro-trifluoroethane		NA	NA		

Surrogate	SPK CONC	ACP% %RC	MB	%RC	%RC	%RC
4-Bromofluorobenzene	10	80-120	107	114		

a = Report Any Value > or = MDL; b = Listed Compounds Are Ordered by Laboratory Analytical Methods: Halogenated, Aromatic, then Remaining Compounds Identified by GC/MS.
SPK CONC = Spiking Concentration (< or = 5 x PQL); ACP % = Acceptable Range of Percent; %RC = % Recovery
MDL = Method Detection Limit; MB = Method Blank; ND = Not Detected (Below MDL); NA = Not Analyzed

QA/QC REPORT

Reporting Unit (Circle One): µg/kg **µg/l**

I. Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

DATE PERFORMED: 10/18/94

BATCH #: 101894_10_1

LAB SAMPLE I. D.: DJ03279

ANALYTE	SPK CONC	MS	% MS	MSD	% MSD	RPD	ACP %MS	ACP RPD
1,1-Dichloroethene	10	8.9	89%	8.5	85%	4.6%	80-120	20%
1,1,1-Trichloroethane	10	9.2	92%	8.9	89%	3.3%	80-120	20%
Trichloroethene	10	9.4	94%	8.9	89%	5.5%	80-120	20%
Chlorobenzene	10	11	110%	9.9	99%	11%	80-120	20%
Benzene	10	11	110%	9.9	99%	11%	80-120	20%
Toluene	10	10	100%	10	100%	0.0%	80-120	20%

II. Laboratory Quality Control Check Sample

DATE PERFORMED: 10/18/94

BATCH #: N/A

LAB SAMPLE I. D.: LCS

ANALYTE	SPK CONC	RESULT	%RECOVERY	ACP %
1,1-Dichloroethene	10	9.0	90%	80-120
1,1,1-Trichloroethane	10	9.1	91%	80-120
Trichloroethene	10	10	100%	80-120
Chlorobenzene	10	10	100%	80-120
Benzene	10	9.9	99%	80-120
Toluene	10	10	100%	80-120

ANALYST: AB/DM DATE: 12/5/94

QA/QC REPORT

III. Calibration Standard

MOST RECENT INITIAL CALIBRATION DATE: 10/10/19

SUPPLY SOURCE: Supelco, Inc.

DAILY CALIBRATION DATE: 10/18/94

COMPOUND [c]	INITIAL RF_{ave}	%RSD[d]	DAILY RF	%DIFF [e] w/RF_{ave}
Bromobenzene				
Bromochloromethane				
Bromodichloromethane	1.1	5.6	1.1	3.1
Bromoform	0.46	8.3	0.47	4.0
Bromomethane	0.29	8.2	0.27	5.2
Carbon tetrachloride	1.7	6.1	1.6	4.0
Chloroethane	0.85	9.6	0.70	18
Chloroform*	1.8	7.8	1.8	1.3
1-Chlorohexane				
Chloromethane	0.94	10	0.92	2.1
Dibromochloromethane	0.81	4.9	0.83	2.3
Dibromomethane				
Dichloromethane (Methylene chloride)	1.9	24	2.5	36
1,1-Dichloroethane (1,1-DCA)	1.3	9.9	1.2	5.5
1,2-Dichloroethane (1,2-DCA)	1.3	3.4	1.2	4.9
1,1-Dichloroethylene* (1,1-DCE)	1.0	15	1.1	6.1
trans-1,2-Dichloroethylene	1.2	10	1.1	8.2
1,2-Dichloropropylene*	1.2	5.1	1.1	9.7
cis-1,3-Dichloropropylene	1.1	7.8	1.1	3.3
trans-1,2-Dichloropropylene	1.0	7.4	1.0	1.5
1,1,1,2-Tetrachloroethane				
1,1,2,2-Tetrachloroethane	1.0	7.2	0.45	56
Tetrachloroethylene (PCE)	1.7	8.9	1.6	3.3

COMPOUND [c]	INITIAL RF_{ave}	%RSD[d]	DAILY RF	%DIFF [e] RF/RF_{ave}
1,1,1-Trichloroethane (1,1,1-TCA)	1.5	7.2	1.4	3.0
1,1,2-Trichloroethane (1,1,2-TCA)	1.4	7.1	1.3	3.1
Trichloroethylene (TCE)	1.6	5.5	1.6	0.89
1,2,3-Trichloropropane				
Trichlorofluoromethane	0.94	9.0	0.77	19
Vinyl chloride * (VC)	0.92	11	0.75	18
Benzene	1.4	7.9	1.3	1.9
Chlorobenzene	0.58	6.4	0.58	0.79
1,2-Dichlorobenzene	0.91	3.1	0.92	0.74
1,3-Dichlorobenzene	0.86	3.7	0.83	3.4
1,4-Dichlorobenzene	0.77	5.7	0.79	2.0
Ethyl benzene *	1.1	5.6	1.1	6.0
Toluene *	1.2	3.7	1.2	3.9
m,p-Xylenes	1.2	9.9	1.3	5.0
o-Xylene	1.1	4.1	1.1	0.50
Acetone				
Acrolein				
Acrylonitrile				
n-Butylbenzene				
sec-Butylbenzene				
tert-Butylbenzene				
2-Chloroethylvinyl ether	0.31	16	0.30	1.8
2-Chlorotoluene				
4-Chlorotoluene				
Dichloro-difluoromethane				
cis-1,2-Dichloroethylene	1.5	8.5	1.4	6.0
trans-1,2-Dichloroethylene				
1,3-Dichloropropane				
2,2-Dichloropropane				
1,1-Dichloropropylene				
Ethylene dibromide (EDB)				
Hexachlorobutadiene				
Isopropylbenzene				

III. Calibration Standard (cont'd)

COMPOUND [c]	INITIAL RF [ave]	%RSD [d]	DAILY RF	%DIFF [e] w/RF [ave]
p-Isopropyltoluene				
Methyl Ethyl Ketone				
Methyl Isobutyl Ketone				
Naphthalene				
n-Propylbenzene				
Styrene				
1,2,3-Trichlorobenzene				
1,2,4-Trichlorobenzene				
1,2,4-Trimethylbenzene				
1,3,5-Trimethylbenzene				
1,1,2-Trichloro-trifluoroethane				

SPK CONC = Spiking Concentration (< or = 5 X PQL); PQL = Practical Quantitation Limit

%MS = Percent Recovery of MS; %MSD = Percent Recovery of MSD; RPD = Relative Percent Difference;

ACP = Acceptable Range of Percent; INITIAL RF ave = Average Response Factor From Initial Calibration;

DAILY RF = Response Factor From Daily Calibration; %RSD = Percent Relative Standard Deviation;

%DIFF = Percent Difference; c = Listed Compounds are Ordered by Laboratory Analytical Methods: Halogenated, Aromatic, then Remaining Compounds Identified by GC/MS.

d = Value < or = 10% for GC EPA Methods 500 & 600 Series, < or = 20% for GC EPA Methods 8000 Series, < or = 30% for GC/MS Meth

e = Value < or = 20% for GC EPA Methods 500 & 600 Series, < or = 15% for GC EPA Methods 8000 Series, < or = 25% for GC/MS Meth

* = Calibration Check Compounds (CCC) for GC/MS Method;

= System Performance Check Compounds (SPCC) for GC/MS Method

REQUIREMENT

1. Indicate any modification made to the EPA Methods (e.g., testing constituent list, columns).
2. Provide details of corrective actions in any out of control events (e.g., re-calibration, blank contamination, etc.).
3. Co-elution must be resolved prior to reporting, except for xylenes.
4. Second column or MS confirmation must be performed for all compounds detected.
5. Analytical results are not to be blank adjusted.
6. Chemical standards for QC check samples and calibration should be obtained from different supply sources.
7. Any change of column, detector, chemical standard, etc. shall result in a new initial calibration.
8. Lowest concentration injected for inital calibration should not exceed three times of laboratory method detection limits.
9. Re-calibration is required whenever the RF from daily calibration is not within the range specified in item "e" above from initial calibration RFave.
10. Tentative identified compounds and all unidentified peaks must be reported.
11. Chromatogram for calibration standards, quality control check samples, and selected environmental samples must be submitted upon request.

Sample File : H:\DATA\GC10\P10.smp
Created by : on : 1/23/91 8:42 AM
Edited by : DM on : 10/10/94 3:17 PM
Number Of Times Edited : 170

Sample Description :

Default Injection Volume : 1.0000 ul
Quantitation Units : ng
Void Time : 0.000 min
Correct Amounts During Calibration : YES
Reject Outliers During Calibration : NO
An Internal Standard Calibration Will Be Used
Unknown Peaks Will Use The Response Factor Of The Nearest Component

Component Information :

BENZENE

Component Type : Single Peak Component
Retention Time : 19.850 min Search Window: 0.80 s, 0.80 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 4-BFB
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	119214.50	18041.04	0.30092	0.20000	1
2	20.0000	236509.50	34864.82	0.57337	0.40000	1
3	50.0000	542499.00	81960.63	1.29101	1.00000	1
4	100.0000	1082987.50	165423.65	2.61815	2.00000	1
5	150.0000	1615736.00	245976.16	3.74610	3.00000	1

Average Calibration Factor = 1.3574 (%RSD = 7.90)

FB

Component Type : Single Peak Component
Retention Time : 20.410 min Search Window: 0.70 s, 0.70 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 4-BFB
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	50.0000	362803.00	57689.64	0.91577	1.00000	1
2	50.0000	370943.00	58286.69	0.89927	1.00000	1
3	50.0000	372224.00	57709.62	0.88580	1.00000	1
4	50.0000	374721.50	59616.17	0.90590	1.00000	1
5	50.0000	373847.50	58859.17	0.86677	1.00000	1

Average Calibration Factor = 0.8947 (%RSD = 2.13)

TOLUENE

Component Type : Single Peak Component
Retention Time : 24.750 min Search Window: 0.60 s, 0.60 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : 4-BFB
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates

3	50.0000	466734.50	84009.91	1.11071	1.00000	1
4	100.0000	979187.00	176563.70	2.36721	2.00000	1
5	150.0000	1449946.00	261925.06	3.36171	3.00000	1

Average Calibration Factor = 1.1583 (%RSD = 3.66)

CHLOROBENZENE

Component Type : Single Peak Component
Retention Time : 28.420 min Search Window: 0.30 s, 0.20 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : 4-BFB
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	100616.00	17991.09	0.25397	0.20000	1
2	20.0000	196463.00	36944.03	0.47628	0.40000	1
3	50.0000	485238.93	91217.16	1.15475	1.00000	1
4	100.0000	1038705.60	198897.78	2.51109	2.00000	1
5	150.0000	1583830.00	298208.94	3.67212	3.00000	1

Average Calibration Factor = 1.2190 (%RSD = 3.86)

ETHYLBENZENE

Component Type : Single Peak Component
Retention Time : 28.540 min Search Window: 0.20 s, 0.20 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : 4-BFB
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	88588.00	17821.40	0.22361	0.20000	1
2	20.0000	180711.62	34672.51	0.43810	0.40000	1
3	50.0000	425699.13	79667.43	1.01306	1.00000	1
4	100.0000	889776.80	178573.39	2.15106	2.00000	1
5	150.0000	1263141.40	244280.84	2.92860	3.00000	1

Average Calibration Factor = 1.0556 (%RSD = 5.60)

M,P-XYLENES

Component Type : Single Peak Component
Retention Time : 28.730 min Search Window: 0.50 s, 0.30 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : 4-BFB
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	20.0000	205268.00	39318.67	0.51813	0.40000	1
2	40.0000	417613.38	79505.10	1.01241	0.80000	1
3	100.0000	865908.31	145981.65	2.06064	2.00000	1
4	200.0000	2226768.60	426061.49	5.38326	4.00000	1
5	300.0000	3333339.10	412279.22	7.72837	6.00000	1

Average Calibration Factor = 1.2450 (%RSD = 9.92)

O-XYLENE

Component Type : Single Peak Component
Retention Time : 29.820 min Search Window: 0.20 s, 0.20 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : 4-BFB

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	92891.50	17513.58	0.23447	0.20000	1
2	20.0000	179404.00	33848.09	0.43493	0.40000	1
3	50.0000	447861.50	63083.60	1.06580	1.00000	1
4	100.0000	927278.00	177098.66	2.24172	2.00000	1
5	150.0000	1377130.00	187390.91	3.19289	3.00000	1

Average Calibration Factor = 1.1021 (%RSD = 4.12)

STYRENE

Component Type : Single Peak Component
Retention Time : 29.950 min Search Window: 0.20 s, 0.20 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : 4-BFB
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	116646.00	20406.22	0.28656	0.20000	1
2	20.0000	235477.50	43983.36	0.56923	0.40000	1
3	50.0000	595803.00	113087.15	1.45661	1.00000	1
4	100.0000	1195420.00	234106.08	2.72715	2.00000	1
5	150.0000	1788413.00	362461.65	3.79358	3.00000	1

Average Calibration Factor = 1.4289 (%RSD = 2.33)

4-BFB

Component Type : Single Peak Component
Retention Time : 31.320 min Search Window: 0.50 s, 0.50 %
Reference Component:
Find Largest Peak in Window
Internal Standard :
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	50.0000	396171.00	74550.54	1.00000	1.00000	1
2	50.0000	412493.00	75358.56	1.00000	1.00000	1
3	50.0000	420213.00	65327.03	1.00000	1.00000	1
4	50.0000	413646.50	81574.48	1.00000	1.00000	1
5	50.0000	431312.00	69685.76	1.00000	1.00000	1

Average Calibration Factor = 1.0000 (%RSD = 0.00)

1,3-DCB

Component Type : Single Peak Component
Retention Time : 34.120 min Search Window: 0.30 s, 0.40 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : 4-BFB
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	86280.97	14321.24	0.21779	0.20000	1
2	20.0000	184416.16	31179.37	0.44708	0.40000	1
3	50.0000	475553.44	71750.51	1.13170	1.00000	1
4	100.0000	987614.39	191637.91	2.38758	2.00000	1
5	150.0000	1412565.23	231965.88	3.27504	3.00000	1

Average Calibration Factor = 1.1248 (%RSD = 3.78)

UTM 005160

1,4-DCB

Component Type : Single Peak Component
Retention Time : 34.380 min Search Window: 0.70 s, 0.30 %

Find Peak Closest to Expected RT in Window
Internal Standard : 4-BFB
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	59342.03	9673.53	0.14979	0.20000	1
2	20.0000	113130.84	21055.15	0.27426	0.40000	1
3	50.0000	321117.06	50790.52	0.76418	1.00000	1
4	100.0000	696498.11	137900.25	1.68380	2.00000	1
5	150.0000	974604.27	163672.69	2.25963	3.00000	1

Average Calibration Factor = 0.7588 (%RSD = 7.34)

1,2-DCB
Component Type : Single Peak Component
Retention Time : 35.320 min Search Window: 0.40 s, 0.40 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : 4-BFB
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	51755.00	10853.39	0.13064	0.20000	1
2	20.0000	138175.00	26122.58	0.33498	0.40000	1
3	50.0000	365243.00	61115.66	0.86919	1.00000	1
4	100.0000	787589.50	152349.31	1.90402	2.00000	1
5	150.0000	1127422.00	194108.08	2.61394	3.00000	1

Average Calibration Factor = 0.8366 (%RSD = 13.26)

Sample File : H:\DATA\GC10\E10.smp

Created by : on : 1/23/91 8:42 AM
Edited by : DM on : 10/11/94 3:11 PM
Number Of Times Edited : 384

Sample Description :

Default Injection Volume : 1.0000 ul
Quantitation Units : ng
Void Time : 0.000 min
Correct Amounts During Calibration : YES
Reject Outliers During Calibration : NO
An Internal Standard Calibration Will Be Used
Unknown Peaks Will Be Quantitated Using A Response Factor of 1000000.000000

Component Information :

DICHLODIFLUOMETHANE

Component Type : Single Peak Component
Retention Time : 5.223 min Search Window: 2.60 s, 2.60 %
Reference Component:
Find Largest Peak in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	52537.00	7053.06	0.09345	0.20000	0
2	20.0000	90968.00	12839.71	0.15735	0.40000	0
3	50.0000	237871.00	35684.90	0.50769	1.00000	0
4	100.0000	499195.00	72398.39	0.93558	2.00000	0
5	150.0000	715718.50	103380.58	1.21960	3.00000	0

Average Calibration Factor = 0.4485 (%RSD = 10.59)

CHLOROMETHANE

Component Type : Single Peak Component
Retention Time : 5.881 min Search Window: 2.30 s, 2.30 %
Reference Component:
Find Largest Peak in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	119686.39	13687.32	0.21289	0.20000	0
2	20.0000	208303.25	24289.45	0.36032	0.40000	0
3	50.0000	479526.20	61983.71	1.02345	1.00000	0
4	100.0000	963825.16	117214.35	1.81012	2.00000	0
5	150.0000	1452813.66	184658.20	2.47563	3.00000	0

Average Calibration Factor = 0.9438 (%RSD = 10.37)

VINYL CHLORIDE

Component Type : Single Peak Component
Retention Time : 6.191 min Search Window: 2.20 s, 2.20 %
Reference Component:
Find Largest Peak in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amoun	Area	Height	ISTD Resp.	ISTD Amt.	# Replicat

2	20.0000	198391.75	21941.02	[illegible]	[illegible]	
3	50.0000	490032.80	61456.63	1.04588	1.00000	0
4	100.0000	937155.34	110788.08	1.75639	2.00000	0
5	150.0000	1422311.34	173289.25	2.42366	3.00000	0

Average Calibration Factor = 0.9190 (%RSD = 11.05)

BROMOMETHANE

Component Type : Single Peak Component
Retention Time : 7.634 min Search Window: 2.00 s, 2.00 %
Reference Component:
Find Largest Peak in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	33713.00	4236.79	0.05997	0.20000	0
2	20.0000	59235.11	7442.91	0.10246	0.40000	0
3	50.0000	148597.01	18677.13	0.31715	1.00000	0
4	100.0000	301474.13	37465.80	0.86501	2.00000	0
5	150.0000	484575.49	58626.50	0.82573	3.00000	0

Average Calibration Factor = 0.2862 (%RSD = 8.16)

CHLOROETHANE

Component Type : Single Peak Component
Retention Time : 7.848 min Search Window: 2.00 s, 2.00 %
Reference Component:
Find Largest Peak in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	93979.00	9864.19	0.16716	0.20000	0
2	20.0000	174580.89	16957.53	0.30199	0.40000	0
3	50.0000	455594.99	42832.91	0.97237	1.00000	0
4	100.0000	942970.37	84278.38	1.76729	2.00000	0
5	150.0000	1429661.51	121341.47	2.43618	3.00000	0

Average Calibration Factor = 0.8518 (%RSD = 9.60)

TRICHLOROFLUOROMETH

Component Type : Single Peak Component
Retention Time : 8.873 min Search Window: 2.60 s, 2.60 %
Reference Component:
Find Largest Peak in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	108630.00	8992.69	0.19322	0.20000	0
2	20.0000	202770.00	15923.19	0.35075	0.40000	0
3	50.0000	497706.50	39189.35	1.06225	1.00000	0
4	100.0000	1013461.00	80617.23	1.89940	2.00000	0
5	150.0000	1487159.00	113012.85	2.53416	3.00000	0

Average Calibration Factor = 0.9399 (%RSD = 9.03)

FREON

Component Type : Single Peak Component
Retention Time : 10.460 min Search Window: 2.30 s, 2.30 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : BROMOCHLOROMETHAN

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	21931.00	1143.66	0.03901	0.20000	0
2	20.0000	45975.00	2796.98	0.07953	0.40000	0
3	50.0000	117437.50	6783.09	0.25065	1.00000	0
4	100.0000	191469.00	10622.60	0.35885	2.00000	0
5	150.0000	434062.00	26461.86	0.73965	3.00000	0

Average Calibration Factor = 0.2141 (%RSD = 15.11)

1,1-DCE

Component Type : Single Peak Component
Retention Time : 11.069 min Search Window: 2.20 s, 2.20 %
Reference Component:
Find Largest Peak in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	141074.00	13574.83	0.25093	0.20000	0
2	20.0000	241977.00	23300.78	0.41857	0.40000	0
3	50.0000	503874.50	46141.43	1.07542	1.00000	0
4	100.0000	1012488.00	94727.78	1.89757	2.00000	0
5	150.0000	1495883.00	133781.20	2.54903	3.00000	0

Average Calibration Factor = 1.0350 (%RSD = 14.64)

MECL2

Component Type : Single Peak Component
Retention Time : 12.767 min Search Window: 2.30 s, 2.30 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	290654.00	31768.68	0.51699	0.20000	0
2	20.0000	400467.00	42193.21	0.69272	0.40000	0
3	50.0000	883247.00	97849.23	1.88511	1.00000	0
4	100.0000	1749093.50	188290.53	3.27810	2.00000	0
5	150.0000	2540731.00	261459.68	4.32948	3.00000	0

Average Calibration Factor = 1.8568 (%RSD = 23.55)

T-1,2-DCE

Component Type : Single Peak Component
Retention Time : 13.821 min Search Window: 1.90 s, 1.70 %
Reference Component:
Find Largest Peak in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	148531.00	19742.87	0.26419	0.20000	0
2	20.0000	278457.50	35876.51	0.48167	0.40000	0
3	50.0000	658998.00	87397.68	1.40650	1.00000	0
4	100.0000	1318548.50	178668.83	2.67118	2.00000	0
5	150.0000	1866943.00	248104.46	3.18132	3.00000	0

Average Calibration Factor = 1.2455 (%RSD = 10.44)

UTM 005164

1,1-DCA

Component Type : Single Peak Component
Retention Time : 15.179 min Search Window: 1.50 s, [illegible].50 %

Find Largest Peak in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	156190.50	17665.79	0.27782	0.20000	0
2	20.0000	302241.00	32651.39	0.52281	0.40000	0
3	50.0000	691154.00	77147.12	1.47513	1.00000	0
4	100.0000	1403506.00	158810.64	2.63041	2.00000	0
5	150.0000	1974414.00	218476.41	3.36446	3.00000	0

Average Calibration Factor = 1.3216 (%RSD = 9.90)

CIS-1,2-DCE
Component Type : Single Peak Component
Retention Time : 17.034 min Search Window: 1.30 s, 1.30 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	181356.83	24125.12	0.32258	0.20000	0
2	20.0000	349596.33	46626.61	0.60472	0.40000	0
3	50.0000	743734.90	100278.61	1.58735	1.00000	0
4	100.0000	1513740.89	208671.11	2.83701	2.00000	0
5	150.0000	2301449.96	310812.23	3.92173	3.00000	0

Average Calibration Factor = 1.4876 (%RSD = 8.47)

CHLOROFORM
Component Type : Single Peak Component
Retention Time : 17.503 min Search Window: 1.20 s, 1.20 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	221888.17	28587.12	0.39468	0.20000	0
2	20.0000	433629.67	55671.11	0.75008	0.40000	0
3	50.0000	916284.10	119887.19	1.95562	1.00000	0
4	100.0000	1871469.33	244395.89	3.50745	2.00000	0
5	150.0000	2874020.00	366046.53	4.89741	3.00000	0

Average Calibration Factor = 1.8381 (%RSD = 7.83)

BROMOCHLOROMETHAN
Component Type : Single Peak Component
Retention Time : 17.955 min Search Window: 1.10 s, 1.10 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard :
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	50.0000	562203.41	76205.88	1.00000	1.00000	0
2	50.0000	578110.50	78368.87	1.00000	1.00000	0
3	50.0000	468538.50	64634.30	1.00000	1.00000	0
4	50.0000	533569.78	73453.47	1.00000	1.00000	0
5	50.0000	586845.04	77151.08	1.00000	1.00000	0

Average Calibration Factor = 1.0000 (%RSD = 0.00)

Component Type : Single Peak Component
Retention Time : 18.687 min Search Window: 1.00 s, 1.10 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	183447.09	19991.11	0.32630	0.20000	0
2	20.0000	341206.00	36978.93	0.59021	0.40000	0
3	50.0000	723856.00	78881.09	1.54492	1.00000	0
4	100.0000	1517405.00	166718.59	2.84387	2.00000	0
5	150.0000	2383681.50	261578.97	4.06186	3.00000	0

Average Calibration Factor = 1.4856 (%RSD = 7.24)

CARBON TETRACHLORIDE
Component Type : Single Peak Component
Retention Time : 19.409 min Search Window: 0.80 s, 0.80 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	207612.39	23587.43	0.36928	0.20000	0
2	20.0000	390719.02	44421.83	0.67586	0.40000	0
3	50.0000	811907.08	93351.03	1.73285	1.00000	0
4	100.0000	1791613.35	207612.32	3.35779	2.00000	0
5	150.0000	2741160.02	317740.83	4.67101	3.00000	0

Average Calibration Factor = 1.7010 (%RSD = 6.13)

1,2-DCA
Component Type : Single Peak Component
Retention Time : 19.742 min Search Window: 2.50 s, 0.80 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	149810.61	21081.71	0.26594	0.20000	0
2	20.0000	306419.48	42397.47	0.53004	0.40000	0
3	50.0000	615558.92	88755.18	1.31379	1.00000	0
4	100.0000	1410114.65	208316.81	2.64279	2.00000	0
5	150.0000	2152950.98	315821.54	3.66869	3.00000	0

Average Calibration Factor = 1.3026 (%RSD = 3.45)

TCE
Component Type : Single Peak Component
Retention Time : 21.462 min Search Window: 1.50 s, 0.80 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	189903.04	27298.26	0.33778	0.20000	0
2	20.0000	353036.74	50257.27	0.61067	0.40000	0
3	50.0000	770479.23	114467.01	1.64443	1.00000	0
4	100.0000	1577545.96	239461.85	2.95659	2.00000	0

Average Calibration Factor = 1.5773 (%RSD = 5.51)

1,2-DCP

Component Type : Single Peak Component
Retention Time : 21.895 min Search Window: 1.20 s, 0.80 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	135737.96	18946.26	0.24144	0.20000	0
2	20.0000	275447.26	37159.19	0.47646	0.40000	0
3	50.0000	614247.77	83843.93	1.31099	1.00000	0
4	100.0000	1239523.04	175281.45	2.32308	2.00000	0
5	150.0000	2049105.87	289349.51	3.49173	3.00000	0

Average Calibration Factor = 1.2070 (%RSD = 5.07)

BROMODICHLOROMETHAN

Component Type : Single Peak Component
Retention Time : 22.487 min Search Window: 1.10 s, 0.80 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	136110.00	18715.51	0.24210	0.20000	0
2	20.0000	250995.50	35606.61	0.43417	0.40000	0
3	50.0000	573799.00	82388.68	1.22466	1.00000	0
4	100.0000	1191703.60	173653.21	2.23345	2.00000	0
5	150.0000	1950535.17	291135.30	3.32377	3.00000	0

Average Calibration Factor = 1.1490 (%RSD = 5.55)

2-CVE

Component Type : Single Peak Component
Retention Time : 23.218 min Search Window: 0.70 s, 0.80 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	29014.00	3771.28	0.05161	0.20000	0
2	20.0000	64402.00	8366.01	0.11140	0.40000	0
3	50.0000	175249.00	24557.09	0.37403	1.00000	0
4	100.0000	363244.00	53249.70	0.68078	2.00000	0
5	150.0000	504650.50	77576.92	0.85994	3.00000	0

Average Calibration Factor = 0.3075 (%RSD = 15.62)

T-1,3-DCP

Component Type : Single Peak Component
Retention Time : 23.851 min Search Window: 0.90 s, 0.80 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

1	10.0000	117068.00	16675.01	0.20823	0.20000	0
2	20.0000	214759.00	31038.07	0.37148	0.40000	0
3	50.0000	533691.50	81185.55	1.13906	1.00000	0
4	100.0000	1083715.00	174027.02	2.03107	2.00000	0
5	150.0000	1762455.00	288797.26	3.00327	3.00000	0

Average Calibration Factor = 1.0251 (%RSD = 7.43)

C1,3-DCP

Component Type : Single Peak Component
Retention Time : 25.086 min Search Window: 1.00 s, 0.70 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	128700.65	17228.83	0.22892	0.20000	0
2	20.0000	228796.96	32409.95	0.39577	0.40000	0
3	50.0000	572533.60	90414.63	1.22196	1.00000	0
4	100.0000	1177414.30	198364.45	2.20667	2.00000	0
5	150.0000	1889468.79	326477.17	3.21971	3.00000	0

Average Calibration Factor = 1.1065 (%RSD = 7.78)

1,1,2-TCA

Component Type : Single Peak Component
Retention Time : 25.494 min Search Window: 1.00 s, 0.80 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	161122.85	23504.22	0.28659	0.20000	0
2	20.0000	295171.04	42197.69	0.51058	0.40000	0
3	50.0000	712743.40	106207.98	1.52121	1.00000	0
4	100.0000	1436524.70	225628.73	2.69229	2.00000	0
5	150.0000	2322057.71	363431.41	3.95685	3.00000	0

Average Calibration Factor = 1.3791 (%RSD = 7.10)

TETRACHLOROETHENE

Component Type : Single Peak Component
Retention Time : 26.378 min Search Window: 1.00 s, 0.90 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	204660.77	31124.98	0.36403	0.20000	0
2	20.0000	363116.95	54474.12	0.62811	0.40000	0
3	50.0000	846539.20	133191.38	1.80677	1.00000	0
4	100.0000	1662250.52	267817.53	3.11534	2.00000	0
5	150.0000	2672074.89	434147.29	4.55329	3.00000	0

Average Calibration Factor = 1.6545 (%RSD = 8.85)

DIBROMOCHLOROMETHAN

Component Type : Single Peak Component
Retention Time : 26.821 min Search Window: 1.00 s, 0.80 %
Reference Component:
Find Peak Closest t, Expected RT in Window

Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	85882.23	12391.31	0.15276	0.20000	0
2	20.0000	186092.05	25965.51	0.32190	0.40000	0
3	50.0000	407782.80	59333.06	0.87033	1.00000	0
4	100.0000	882991.57	130055.33	1.65488	2.00000	0
5	150.0000	1403132.72	215350.57	2.39098	3.00000	0

Average Calibration Factor = 0.8127 (%RSD = 4.86)

DIBROMOETHANE
Component Type : Single Peak Component
Retention Time : 27.340 min Search Window: 0.80 s, 0.80 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	51049.00	6430.77	0.09080	0.20000	0
2	20.0000	111664.50	14701.33	0.19315	0.40000	0
3	50.0000	267953.00	35333.55	0.57189	1.00000	0
4	100.0000	608982.90	80915.34	1.14134	2.00000	0
5	150.0000	999413.89	146111.60	1.70303	3.00000	0

Average Calibration Factor = 0.5294 (%RSD = 10.69)

CHLOROBNZN
Component Type : Single Peak Component
Retention Time : 28.388 min Search Window: 0.80 s, 0.80 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	64468.00	9860.93	0.11467	0.20000	0
2	20.0000	127219.00	19208.84	0.22006	0.40000	0
3	50.0000	301913.00	46088.78	0.64437	1.00000	0
4	100.0000	600873.00	104014.02	1.12614	2.00000	0
5	150.0000	1003166.00	166379.08	1.70942	3.00000	0

Average Calibration Factor = 0.5801 (%RSD = 6.37)

BROMOFORM
Component Type : Single Peak Component
Retention Time : 30.702 min Search Window: 0.70 s, 0.50 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	43900.65	6098.04	0.07809	0.20000	0
2	20.0000	105251.93	14867.49	0.18206	0.40000	0
3	50.0000	224603.93	32462.56	0.47937	1.00000	0
4	100.0000	506030.77	75948.87	0.94839	2.00000	0
5	150.0000	845869.27	137118.39	1.44138	3.00000	0

Average Calibration Factor = 0.4559 (%RSD = 8.33)

1,1,2,2-TCA
Component Type : Single Peak Component

Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	102549.48	15749.92	0.18241	0.20000	0
2	20.0000	237503.97	34639.88	0.41083	0.40000	0
3	50.0000	520662.17	78737.63	1.11125	1.00000	0
4	100.0000	1052581.39	167654.93	1.97272	2.00000	0
5	150.0000	1740371.23	272637.11	2.96564	3.00000	0

Average Calibration Factor = 1.0051 (%RSD = 7.22)

4-BFB
Component Type : Single Peak Component
Retention Time : 31.280 min Search Window: 0.40 s, 0.50 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	50.0000	158908.00	22622.74	0.28265	1.00000	0
2	50.0000	157332.50	22589.11	0.27215	1.00000	0
3	50.0000	156379.00	22483.34	0.33376	1.00000	0
4	50.0000	157693.00	21372.64	0.29554	1.00000	0
5	50.0000	152690.50	21773.56	0.26019	1.00000	0

Average Calibration Factor = 0.2889 (%RSD = 9.79)

1,3-DCB
Component Type : Single Peak Component
Retention Time : 34.074 min Search Window: 0.40 s, 0.30 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	94775.67	13059.56	0.16858	0.20000	0
2	20.0000	193493.52	27378.44	0.33470	0.40000	0
3	50.0000	428414.63	59467.30	0.91436	1.00000	0
4	100.0000	925603.82	163154.62	1.73474	2.00000	0
5	150.0000	1492214.37	226340.50	2.54277	3.00000	0

Average Calibration Factor = 0.8618 (%RSD = 3.66)

1,4-DCB
Component Type : Single Peak Component
Retention Time : 34.328 min Search Window: 0.40 s, 0.40 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	92301.33	10553.37	0.16418	0.20000	0
2	20.0000	178367.48	22087.28	0.30854	0.40000	0
3	50.0000	379742.37	46943.70	0.81048	1.00000	0
4	100.0000	804423.68	128619.16	1.50763	2.00000	0
5	150.0000	1255112.63	173788.61	2.13875	3.00000	0

1,2-DCB

Component Type : Single Peak Component
Retention Time : 35.268 min Search Window: 0.70 s, 0.50 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	101109.00	13795.42	0.17984	0.20000	0
2	20.0000	206058.50	27962.70	0.35643	0.40000	0
3	50.0000	447915.50	60724.21	0.95598	1.00000	0
4	100.0000	992132.50	162816.28	1.88942	2.00000	0
5	150.0000	1572573.50	232640.37	2.67971	3.00000	0

Average Calibration Factor = 0.9138 (%RSD = 3.09)

DBCP

Component Type : Single Peak Component
Retention Time : 37.280 min Search Window: 0.70 s, 0.50 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	16326.00	1842.66	0.03547	0.20000	1
2	20.0000	37921.00	4807.18	0.08190	0.40000	1
3	50.0000	107085.50	14617.52	0.24128	1.00000	1
4	100.0000	213027.00	29897.50	0.48732	2.00000	1
5	150.0000	316486.00	51478.05	0.70147	3.00000	1

Average Calibration Factor = 0.1834 (%RSD = 17.56)

Date: 10 . 18 . 1994 Analyst: AB/DM **SAMPLE TRACK SHEET** Intrument: GC # 10 Calibration date 10.10.94

Run #	Port #	Client	Sample #	Amount	Matrix	Test required	Comments	Dup.
1	1		MPIW - 10 ppb	5 ml	H_2O	601/602		
2	2		MBIW	5 ml				
3	3	HLA	3279	5 ml		601	WIP	
4	4		3280	5 ml			2 ml # 10	
5	5		3281	5 ml			2 ml # 11	
6	6		3282	5 ml			1 ml # 12	
7	7		3283	5 ml			0.5 ml # 13	
8	8		3234	5 ml			1 ml # 20	
9	9		3285	5 ml			0.5 ml # 21	
10	10		3280	2 ml	H_2O	601	WIP	✓
11	11		3281	2 ml				✓
12	12		3282	1 ml				✓
13	13		3283	0.5 ml				✓
14	14	[redacted]	6414	5 ml		601/602		
15	15		6413	5 ml			2 ml # 10 10/19/94	
16	16		6412	5 ml		601	2 ml # 10	
17	1		6411	5 ml				
18	2		MSIW-3279 - 10 ppb	5 ml		601/602		
19	3		MSIW-3279 - 10 ppb	5 ml				
20	4	HLA	3284	1 ml		601	WIP 0.5 ml # 24	✓
21	5		3285	0.5 ml				✓
22	6		LCSIW	5 ml		601/602		
23	7	[redacted]	3409	0.5 ml	H_2O	601	24 hrs Rush. 100 ml # 25	
24	8	HLA	3284	0.5 ml			WIP 0.5 ml # 27	✓
25	9	[redacted]	3409	100 ml			Rush (24 hrs) 100 ml # 26	✓
26	9		3409	100 ml	H_2O	601	Rush 1	✓
27	10	HLA	3284	500 ml			WIP	✓
28								
29								
30								

UTM 005172

Software Version: 3.3 <4B11>
Sample Name : MP1W 10PPB
Sample Number:
Operator : AB/DM

Time : 10/18/94 11:04 AM
Study : 8010/8020

Instrument : OI-1/GC10
AutoSampler : NONE
Rack/Vial : 0/0

Channel : B A/D mV Range : 1000

Interface Serial # : 2156575020 Data Acquisition Time: 10/18/94 10:19 AM
Delay Time : 0.00 min.
End Time : 38.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : H:\DATA\GC10\O18B001.RAW
Result File : H:\DATA\GC10\O18B001.RST
Instrument File: H:\DATA\GC10\GC10.ins
Process File : H:\DATA\GC10\ELCD-10
Sample File : H:\DATA\GC10\E10
Sequence File : H:\DATA\GC10\O18P.SEQ

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 3000.000000
Dilution Factor : 1.00

==========

ELCD-GC#10

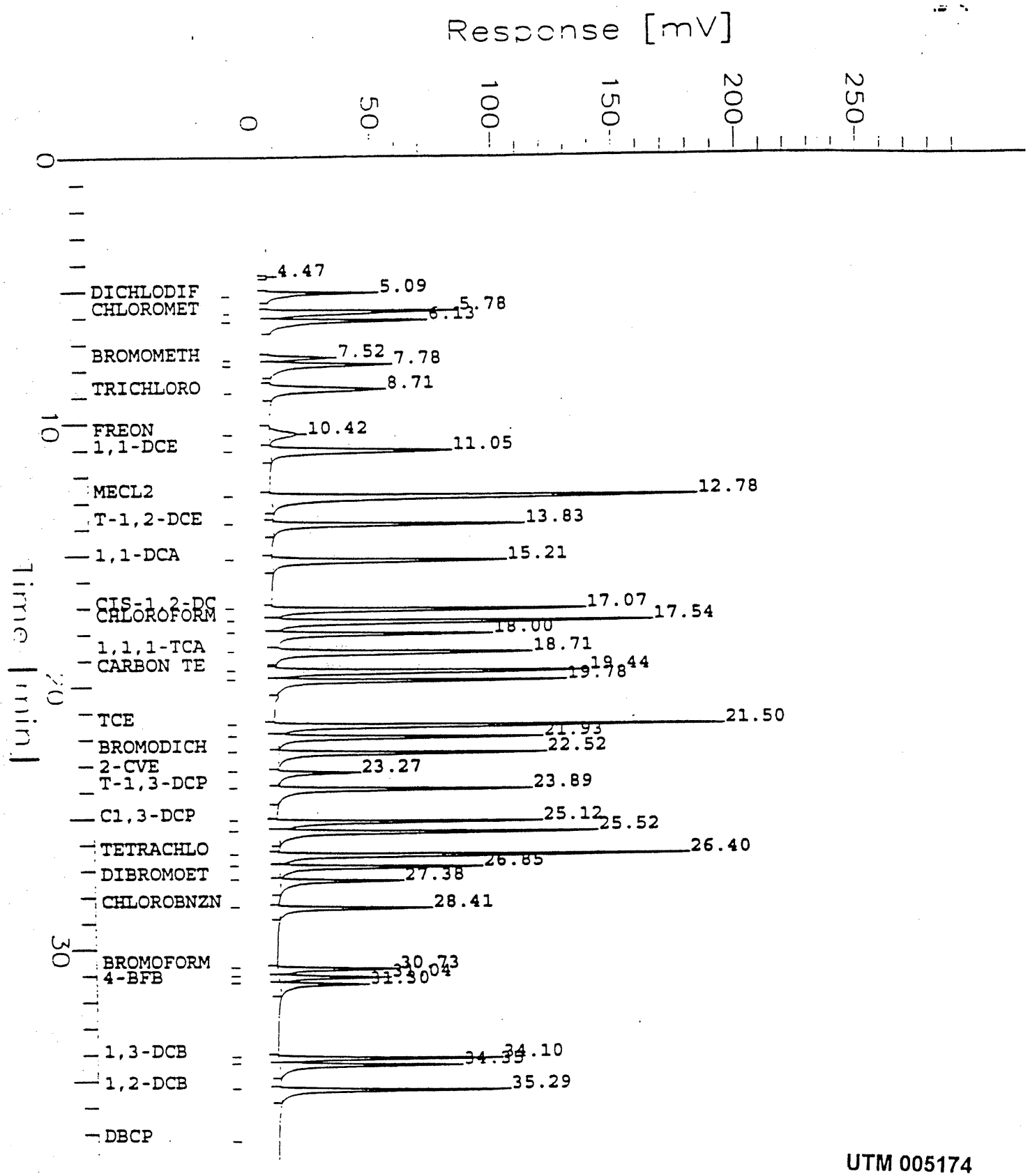
Peak #	Component Name	Time (min)	Area (uV*sec)	RA*2 (%R)	Raw Amount	Adjusted Amount	Cal. Range
2	DICHLODIFLUOMETHANE	5.087	285952.00	93	46.6364	9.3273	
3	CHLOROMETHANE	5.783	631557.47	98	48.9506	9.7901	
4	VINYL CHLORIDE	6.129	514898.53	82	40.9841	8.1968	
5	BROMOMETHANE	7.519	185457.78	95	47.4057	9.4811	
6	CHLOROETHANE	7.782	476664.22	82	40.9365	8.1873	
7	TRICHLOROFLUOROMETH	8.713	523258.50	81	40.7232	8.1446	
8	FREON	10.415	180432.50	123	61.6491	12.3298	
9	1,1-DCE	11.047	750798.00	106	53.0650	10.6130	
10	MECL2	12.775	1719866.50	136	67.7559	13.5512	
11	T-1,2-DCE	13.832	781757.00	92	45.9131	9.1826	
12	1,1-DCA	15.212	853199.00	94	47.2254	9.4451	
13	CIS-1,2-DCE	17.069	955671.95	94	46.9953	9.3991	
14	CHLOROFORM	17.536	1239975.92	99	49.3480	9.8696	
15	BROMOCHLOROMETHAN	17.998	683516.92	0	0.0000	0.0000	
16	1,1,1-TCA	18.710	984948.72	97	48.5000	9.7000	
17	CARBON TETRACHLORIDE	19.436	1116355.40	96	48.0097	9.6019	
18	1,2-DCA	19.781	846633.10	95	47.5461	9.5092	
19	TCE	21.497	1068481.00	99	49.5528	9.9106	
20	1,2-DCP	21.929	745322.50	90	45.1724	9.0345	
21	BROMODICHLOROMETHAN	22.521	760943.00	97	48.4435	9.6887	
22	2-CVE	23.265	206412.50	98	49.0999	9.8200	
23	T-1,3-DCP	23.888	711024.50	101	50.7382	10.1476	
24	C1,3-DCP	25.124	731559.71	97	48.3632	9.6726	
25	1,1,2-TCA	25.523	913184.29	97	48.4362	9.6872	
26	TETRACHLOROETHENE	26.403	1093212.59	97	48.3338	9.6668	
27	DIBROMOCHLOROMETHAN	26.849	568177.60	102	51.1441	10.2288	
28	DIBROMOETHANE	27.375	373863.80	103	51.6570	10.3314	
29	CHLOROBNZN	28.413	399664.00	101	50.3936	10.0787	
30	BROMOFORM	30.727	324046.43	104	51.9920	10.3984	
31	1,1,2,2-TCA	31.039	305194.49	44	22.2131	4.4426	
32	4-BFB	31.303	265470.09	134	67.2281	13.4456	
33	1,3-DCB	34.095	568979.88	97	48.2963	9.6593	
34	1,4-DCB	34.350	539779.12	102	51.0222	10.2044	
35	1,2-DCB	35.287	629271.00	101	50.3715	10.0743	

Sample Name : MP1W 10PPB
FileName : h:\data\gc10\018B001.raw
Method : GC10.ins
Start Time : 0.00 min
Scale Factor: -1.0

End Time : 38.00 min
Plot Offset: -8 mV

Sample #:
Date : 10/18/94 10:57 AM
Time of Injection: 10/18/94 10:19 AM
Low Point : -8.40 mV
Plot Scale: 300.0 mV

High Point : 2



UTM 005174

Software Version: 3.3 <4B11>
Sample Name : MB1W
Sample Number:
Operator : AB/DM

Time : 10/18/94 11:41 AM
Study : 8010/8020

Instrument : OI-1/GC10
AutoSampler : NONE
Rack/Vial : 0/0

Channel : B A/D mV Range : 1000

Interface Serial # : 2156575020 Data Acquisition Time: 10/18/94 11:03 AM
Delay Time : 0.00 min.
End Time : 38.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : H:\DATA\GC10\O18B002.RAW
Result File : H:\DATA\GC10\O18B002.RST
Instrument File: H:\DATA\GC10\GC10.ins
Process File : H:\DATA\GC10\ELCD-10
Sample File : H:\DATA\GC10\E10
Sequence File : H:\DATA\GC10\O18P.SEQ

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 3000.000000
Dilution Factor : 1.00

==========

ELCD-GC#10

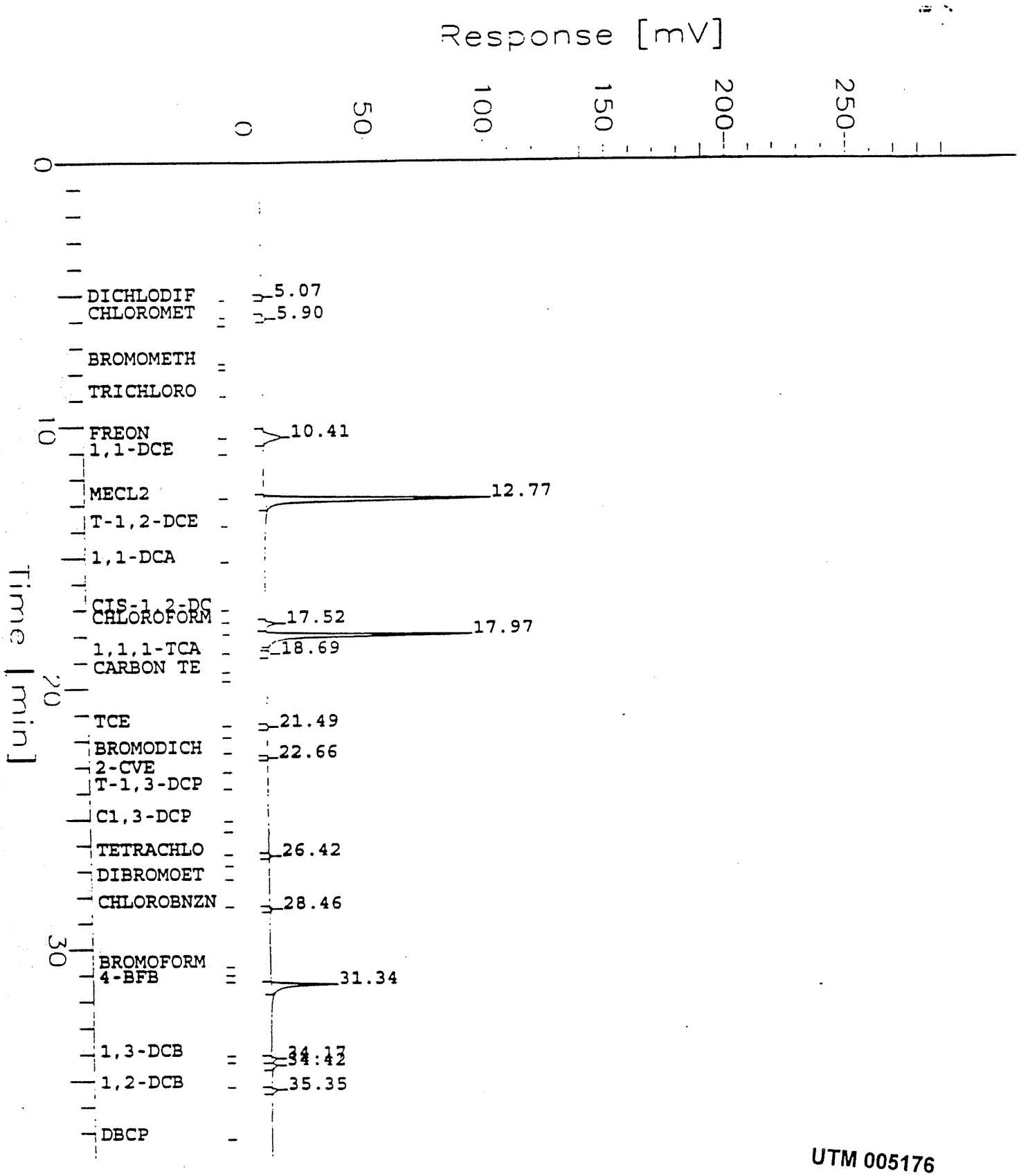
Peak #	Component Name	Time (min)	Area (uV*sec)	RA*2 (%R)	Raw Amount	Adjusted Amount	Cal. Range
1	DICHLODIFLUOMETHANE	5.071	6775.00	2	1.2275	~~0.3495~~	BDL
2	CHLOROMETHANE	5.904	11761.00	2	1.0127	~~0.3085~~	
3	FREON	10.413	107810.00	82	40.9229	~~8.1046~~	
4	MECL2	12.772	803074.50	70	35.1483	~~3.0297~~	
5	CHLOROFORM	17.519	35203.50	3	1.5565	~~0.3123~~	
6	BROMOCHLOROMETHAN	17.973	615252.50	0	0.0000	0.0000	
7	1,1,1-TCA	18.686	7852.00	8.59e-01	0.4295	~~0.0859~~	
8	TCE	21.487	4765.00	4.91e-01	0.2455	~~0.0491~~	
10	TETRACHLOROETHENE	26.418	6603.00	6.49e-01	0.3243	~~0.0649~~	BDL.
11	CHLOROBNZN	28.456	7709.00	2	1.0799	~~0.0280~~	
12	4-BFB	31.342	189499.00	107	53.3136	10.6627	
13	1,3-DCB	34.166	17288.88	3	1.6303	~~0.3207~~	
14	1,4-DCB	34.423	14541.12	3	1.5270	~~0.3054~~	
15	1,2-DCB	35.353	16420.00	3	1.4602	~~0.3020~~	

Sample Name : MB1W
FileName : h:\data\gc10\018B002.raw
Method : GC10.ins
Start Time : 0.00 min
Scale Factor: -1.0

End Time : 38.00 min
Plot Offset: -8 mV

Sample #:
Date : 10/18/94 11:41 AM
Time of Injection: 10/18/94 11:03 AM
Low Point : -8.34 mV
Plot Scale: 300.0 mV

High Point : 2



UTM 005176

Software Version: 3.3 <4B113>

Sample Name : HLA 3279 5ML
Sample Number: DJ03279
Operator : AB/DM

Time : 10/18/94 12:27 PM
Study : 8010/8020

Instrument : OI-1/GC10
AutoSampler : NONE
Rack/Vial : 0/0

Channel : B A/D mV Range : 1000

Interface Serial # : 2156575020 Data Acquisition Time: 10/18/94 11:46 AM
Delay Time : 0.00 min.
End Time : 38.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : H:\DATA\GC10\O18B003.RAW
Result File : H:\DATA\GC10\O18B003.RST
Instrument File: H:\DATA\GC10\GC10.ins
Process File : H:\DATA\GC10\ELCD-10
Sample File : H:\DATA\GC10\E10
Sequence File : H:\DATA\GC10\O18P.SEQ

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 3000.000000
Dilution Factor : 1.00

==========

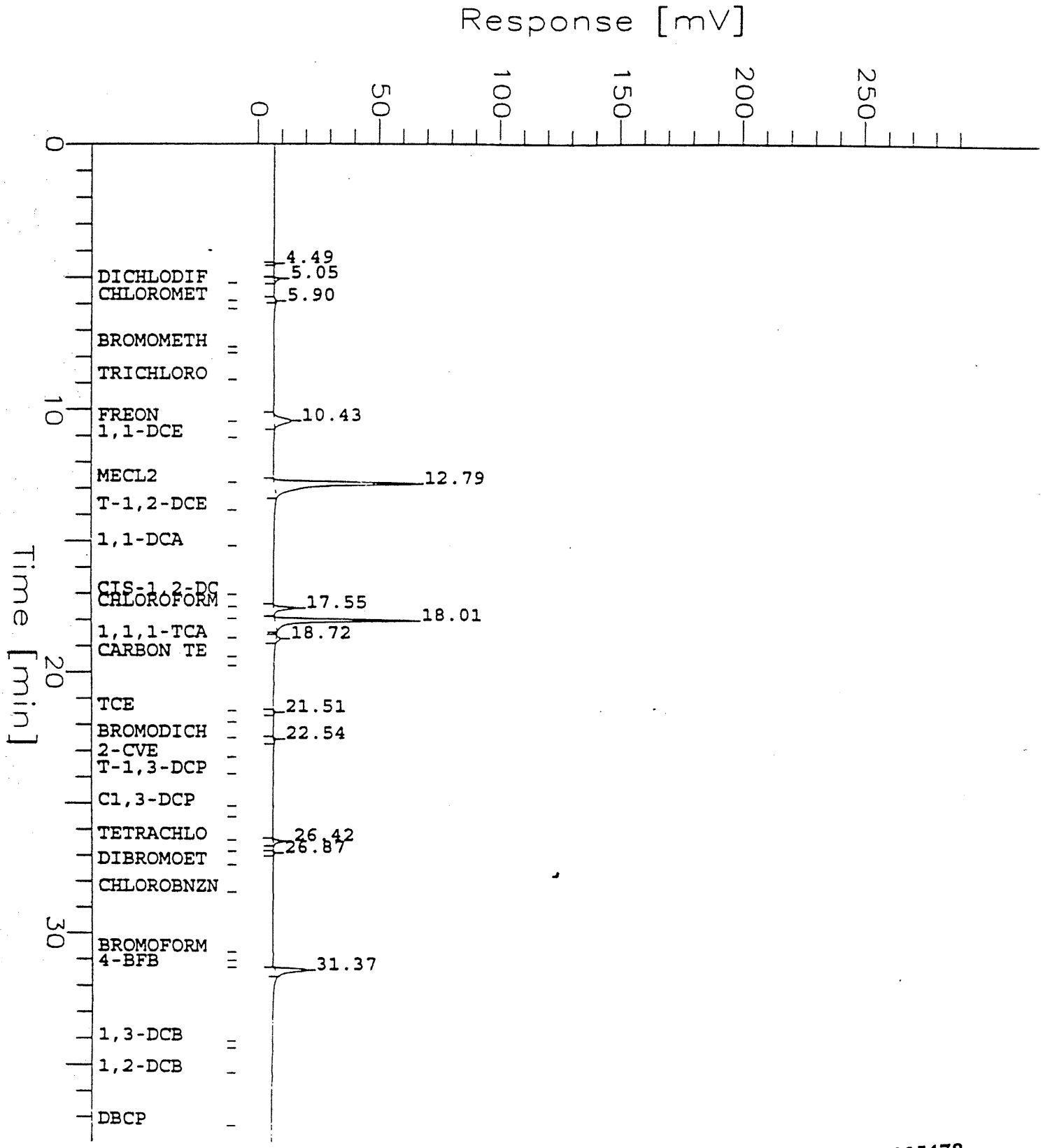
ELCD-GC#10

	Component Name	Time (min)	Area (uV*sec)	RA*2 (%R)	Raw Amount	Adjusted Amount	Cal. Range
2	DICHLODIFLUOMETHANE	5.053	17346.00	9	4.4248	~~0.8850~~	N C
3	CHLOROMETHANE	5.897	4603.00	1	0.5580	~~0.1116~~	BDL
4	FREON	10.427	113083.00	121	60.4323	~~12.0865~~	L C
5	MECL2	12.790	654482.00	81	40.3283	~~8.0657~~	
6	CHLOROFORM	17.548	76218.00	9	4.7443	$\boxed{0.9489}$	Y C
7	BROMOCHLOROMETHAN	18.007	437008.00	0	0.0000	0.0000	
8	1,1,1-TCA	18.716	17418.50	3	1.3415	~~0.2683~~	BDL
9	TCE	21.514	5659.00	8.21e-01	0.4105	~~0.0821~~	
10	BROMODICHLOROMETHAN	22.538	6978.00	1	0.6948	~~0.1390~~	
11	TETRACHLOROETHENE	26.421	28707.00	4	1.9852	~~0.3970~~	
12	DIBROMOCHLOROMETHAN	26.874	4292.00	1	0.6043	~~0.1208~~	
13	4-BFB	31.366	134459.00	107	53.2580	10.6516	

UTM 005177

Sample Name : HLA 3279 5ML
FileName : H:\DATA\GC10\018B003.raw
Method : GC10.ins
Start Time : 0.00 min End Time : 38.00 min
Scale Factor: 1.0 Plot Offset: -8 mV

Sample #: DJ03279 Page 1 o
Date : 10/18/94 12:27 PM
Time of Injection: 10/18/94 11:46 AM
Low Point : -8.36 mV High Point : 2
Plot Scale: 300.0 mV



UTM 005178

Software Version: 3.3 <4B11>
Sample Name : HLA 3280 5ML
Sample Number: DJ03280
Operator : AB/DM

Time : 10/18/94 1:08 PM
Study : 8010/8020

Instrument : OI-1/GC10
AutoSampler : NONE
Rack/Vial : 0/0

Channel : B A/D mV Range : 1000

Interface Serial # : 2156575020 Data Acquisition Time: 10/18/94 12:30 PM
Delay Time : 0.00 min.
End Time : 38.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : H:\DATA\GC10\O18B004.RAW
Result File : H:\DATA\GC10\O18B004.RST
Instrument File: H:\DATA\GC10\GC10.ins
Process File : H:\DATA\GC10\ELCD-10
Sample File : H:\DATA\GC10\E10
Sequence File : H:\DATA\GC10\O18P.SEQ

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 3000.000000
Dilution Factor : 1.00

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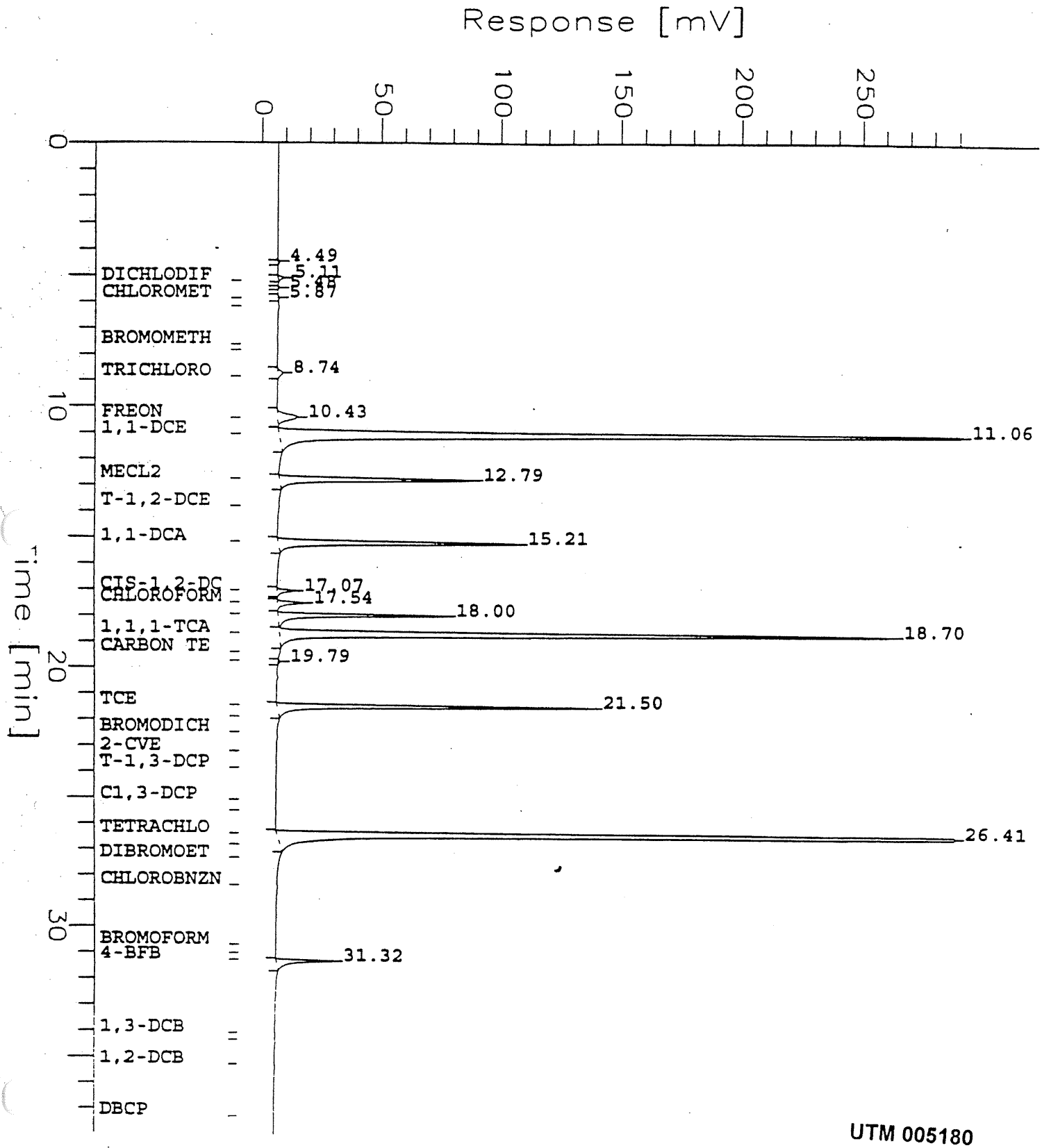
ELCD-GC#10

k	Component Name	Time (min)	Area (uV*sec)	RA*2 (%R)	Raw Amount	Adjusted Amount	Cal. Range
2	DICHLODIFLUOMETHANE	5.108	18582.00	8	3.9229	0.7846	
4	CHLOROMETHANE	5.868	3404.00	6.83e-01	0.3415	0.0683	
5	TRICHLOROFLUOROMETH	8.741	26236.00	5	2.6430	0.5286	
6	FREON	10.430	133105.50	118	58.8692	11.7738	
7	1,1-DCE	11.062	3616322.50	662	330.8510	66.1702	
8	MECL2	12.787	710627.00	72	36.2389	7.2478	
9	1,1-DCA	15.214	913754.00	131	65.4689	13.0938	
10	CIS-1,2-DCE	17.070	52227.50	7	3.3245	0.6649	
11	CHLOROFORM	17.536	86464.00	9	4.4542	0.8908	
12	BROMOCHLOROMETHAN	17.996	528042.62	0	0.0000	0.0000	
13	1,1,1-TCA	18.703	2426436.38	309	154.6599	30.9320	
14	1,2-DCA	19.790	5683.00	8.26e-01	0.4131	0.0826	
15	TCE	21.496	927678.00	111	55.6902	11.1380	
16	TETRACHLOROETHENE	26.411	5607608.00	642	320.9258	64.1852	
17	4-BFB	31.322	183489.00	120	60.1486	12.0297	

Sample Name : HLA 3280 5ML
FileName : h:\data\gc10\018B004.raw
Method : GC10.ins
Start Time : 0.00 min End Time : 38.00 min
Scale Factor: -1.0 Plot Offset: -8 mV

Sample #: DJ03280 Page 1 o
Date : 10/18/94 1:08 PM
Time of Injection: 10/18/94 12:30 PM
Low Point : -8.31 mV High Point : 2
Plot Scale: 300.0 mV



UTM 005180

Software Version: 3.3 <4B11>

Sample Name : HLA 3281 5ML
Sample Number: DJ03281
Operator : AB/DM

Time : 10/18/94 1:52 PM
Study : 8010/8020

Instrument : OI-1/GC10
AutoSampler : NONE
Rack/Vial : 0/0

Channel : B A/D mV Range : 1000

Interface Serial # : 2156575020 Data Acquisition Time: 10/18/94 1:14 PM
Delay Time : 0.00 min.
End Time : 38.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : H:\DATA\GC10\O18B005.RAW
Result File : H:\DATA\GC10\O18B005.RST
Instrument File: H:\DATA\GC10\GC10.ins
Process File : H:\DATA\GC10\ELCD-10
Sample File : H:\DATA\GC10\E10
Sequence File : H:\DATA\GC10\O18P.SEQ

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 3000.000000
Dilution Factor : 1.00

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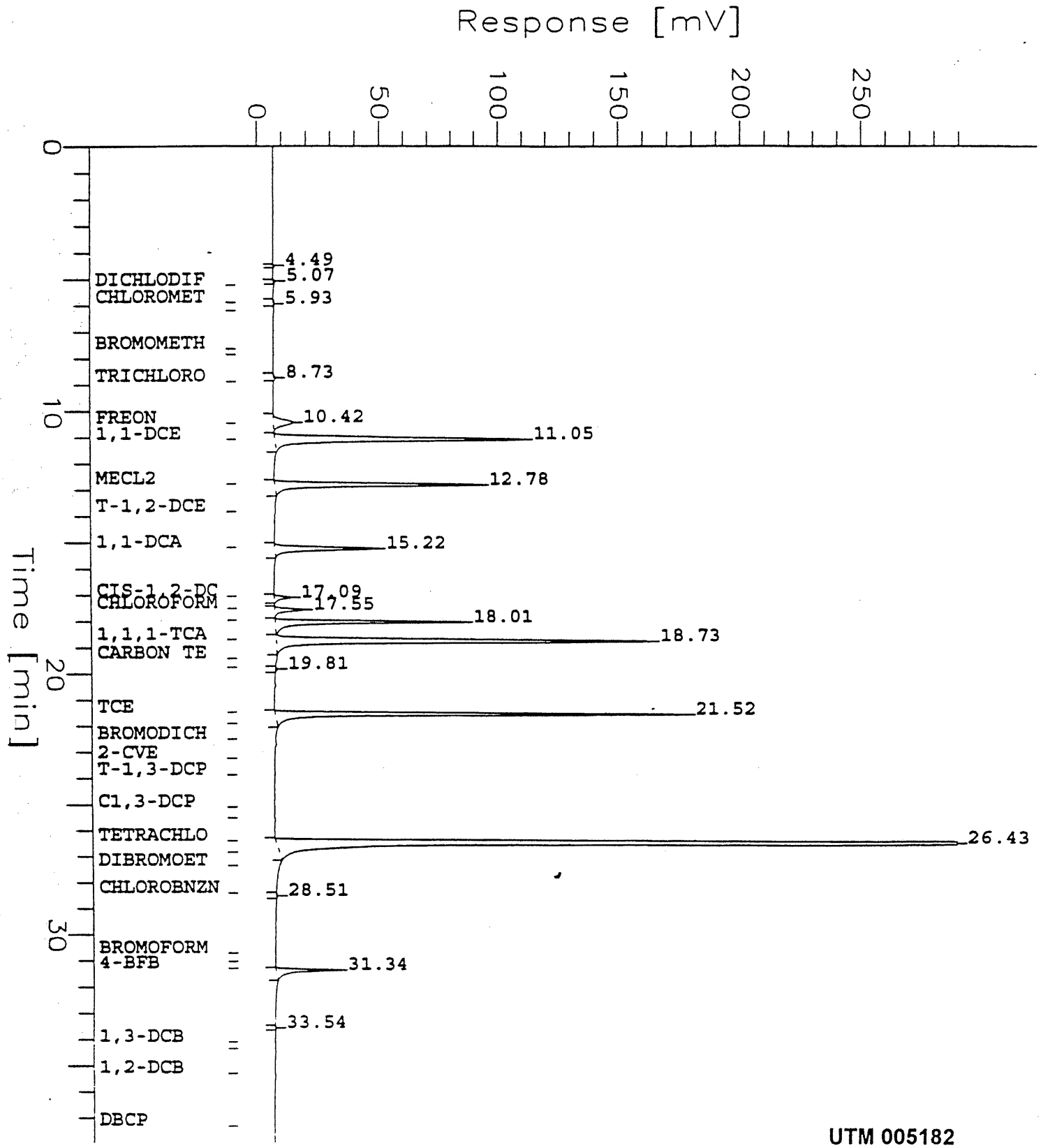
ELCD-GC#10

	Component Name	Time (min)	Area (uV*sec)	RA*2 (%R)	Raw Amount	Adjusted Amount	Cal. Range
2	DICHLODIFLUOMETHANE	5.071	5575.50	2	1.0652	0.2130	
3	CHLOROMETHANE	5.931	4143.50	7.52e-01	0.3762	0.0752	
4	TRICHLOROFLUOROMETH	8.732	6388.00	1	0.5824	0.1165	
5	FREON	10.423	124528.00	100	49.8435	9.9687	
6	1,1-DCE	11.046	1084405.00	180	89.7854	17.9571	
7	MECL2	12.780	739676.00	68	34.1369	6.8274	
8	1,1-DCA	15.218	374870.50	49	24.3073	4.8615	
9	CIS-1,2-DCE	17.087	49321.00	6	2.8412	0.5682	
10	CHLOROFORM	17.554	92474.00	9	4.3113	0.8623	
11	BROMOCHLOROMETHAN	18.012	583471.86	0	0.0000	0.0000	
12	1,1,1-TCA	18.726	1489099.14	172	85.8977	17.1795	
13	1,2-DCA	19.814	5322.00	7.00e-01	0.3501	0.0700	
14	TCE	21.516	1189705.00	129	64.6353	12.9271	
15	TETRACHLOROETHENE	26.427	6360633.00	659	329.4400	65.8880	
16	CHLOROBNZN	28.505	3661.00	1	0.5408	0.1082	
17	4-BFB	31.340	189924.00	113	56.3436	11.2687	

Sample Name : HLA 3281 5ML
FileName : h:\data\gc10\018B005.raw
Method : GC10.ins
Start Time : 0.00 min End Time : 38.00 min
Scale Factor: -1.0 Plot Offset: -8 mV

Sample #: DJ03281 Page 1 o
Date : 10/18/94 1:52 PM
Time of Injection: 10/18/94 1:14 PM
Low Point : -8.31 mV High Point : 2
Plot Scale: 300.0 mV



UTM 005182

Software Version: 3.3 <4B11>
Sample Name : HLA 3282 5ML
Sample Number: DJ03282
Operator : AB/DM

Time : 10/18/94 2:35 PM
Study : 8010/8020

Instrument : OI-1/GC10
AutoSampler : NONE
Rack/Vial : 0/0

Channel : B A/D mV Range : 1000

Interface Serial # : 2156575020 Data Acquisition Time: 10/18/94 1:57 PM
Delay Time : 0.00 min.
End Time : 38.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : H:\DATA\GC10\O18B006.RAW
Result File : H:\DATA\GC10\O18B006.RST
Instrument File: H:\DATA\GC10\GC10.ins
Process File : H:\DATA\GC10\ELCD-10
Sample File : H:\DATA\GC10\E10
Sequence File : H:\DATA\GC10\O18P.SEQ

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 3000.000000
Dilution Factor : 1.00

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ELCD-GC#10

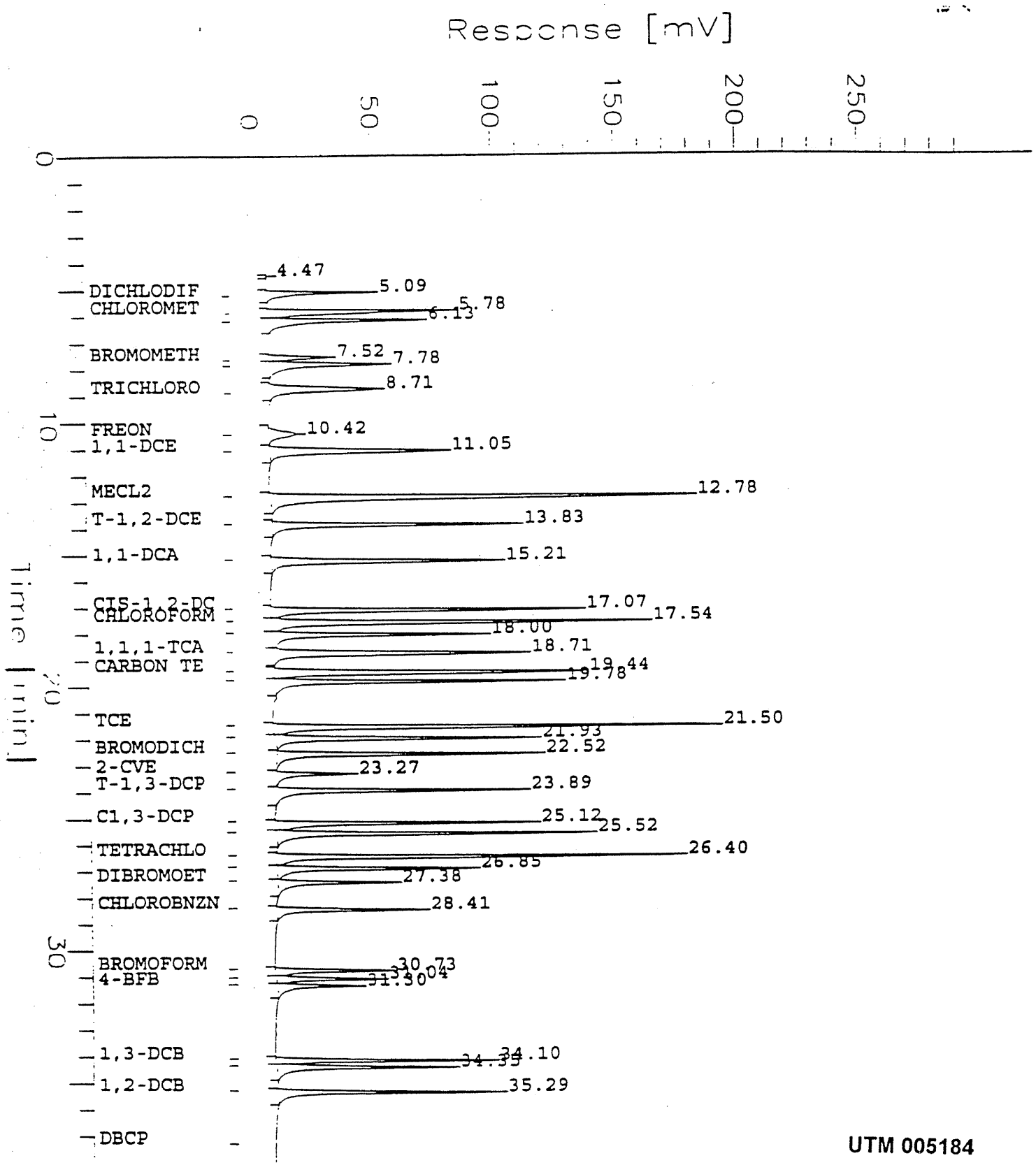
#	Component Name	Time (min)	Area (uV*sec)	RA*2 (%R)	Raw Amount	Adjusted Amount	Cal. Range
2	DICHLODIFLUOMETHANE	5.064	14418.00	6	2.9009	0.5802	
3	CHLOROMETHANE	5.926	5624.00	1	0.5378	0.1076	
5	TRICHLOROFLUOROMETH	8.720	640095.00	123	61.4572	12.2914	
6	FREON	10.418	124805.50	105	52.6076	10.5215	
7	1,1-DCE	11.049	274294.00	48	23.9169	4.7834	
8	MECL2	12.779	686152.00	67	33.3485	6.6697	
9	T-1,2-DCE	13.838	6570.50	9.52e-01	0.4761	0.0952	
10	1,1-DCA	15.215	79659.00	11	5.4396	1.0879	
11	CIS-1,2-DCE	17.070	546351.38	66	33.1452	6.6290	
12	CHLOROFORM	17.539	232460.47	23	11.4132	2.2826	
13	BROMOCHLOROMETHAN	17.999	554046.50	0	0.0000	0.0000	
14	1,1,1-TCA	18.711	181950.66	22	11.0531	2.2106	
15	1,2-DCA	19.797	3895.00	5.40e-01	0.2699	0.0540	
16	TCE	21.497	2528165.50	289	144.6471	28.9294	
17	TETRACHLOROETHENE	26.412	8674704.50	946	473.1561	94.6312	
18	4-BFB	31.324	174214.00	109	54.4279	10.8856	

Sample Name : MP1W 10PPB
FileName : h:\data\gc10\018B001.raw
Method : GC10.ins
Start Time : 0.00 min
ale Factor: -1.0

End Time : 38.00 min
Plot Offset: -8 mV

Sample #:
Date : 10/18/94 10:57 AM
Time of Injection: 10/18/94 10:19 AM
Low Point : -8.40 mV
Plot Scale: 300.0 mV

High Point : 2



UTM 005184

oftware Version: 3.3 <4B11>

Sample Name : MB1W
ample Number:
perator : AB/DM

Time : 10/18/94 11:41 AM
Study : 8010/8020

trument : OI-1/GC10
utoSampler : NONE
Rack/Vial : 0/0

Channel : B A/D mV Range : 1000

nterface Serial # : 2156575020 Data Acquisition Time: 10/18/94 11:03 AM
Delay Time : 0.00 min.
nd Time : 38.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : H:\DATA\GC10\O18B002.RAW
Result File : H:\DATA\GC10\O18B002.RST
Instrument File: H:\DATA\GC10\GC10.ins
Process File : H:\DATA\GC10\ELCD-10
Sample File : H:\DATA\GC10\E10
Sequence File : H:\DATA\GC10\O18P.SEQ

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 3000.000000
Dilution Factor : 1.00

==========

ELCD-GC#10

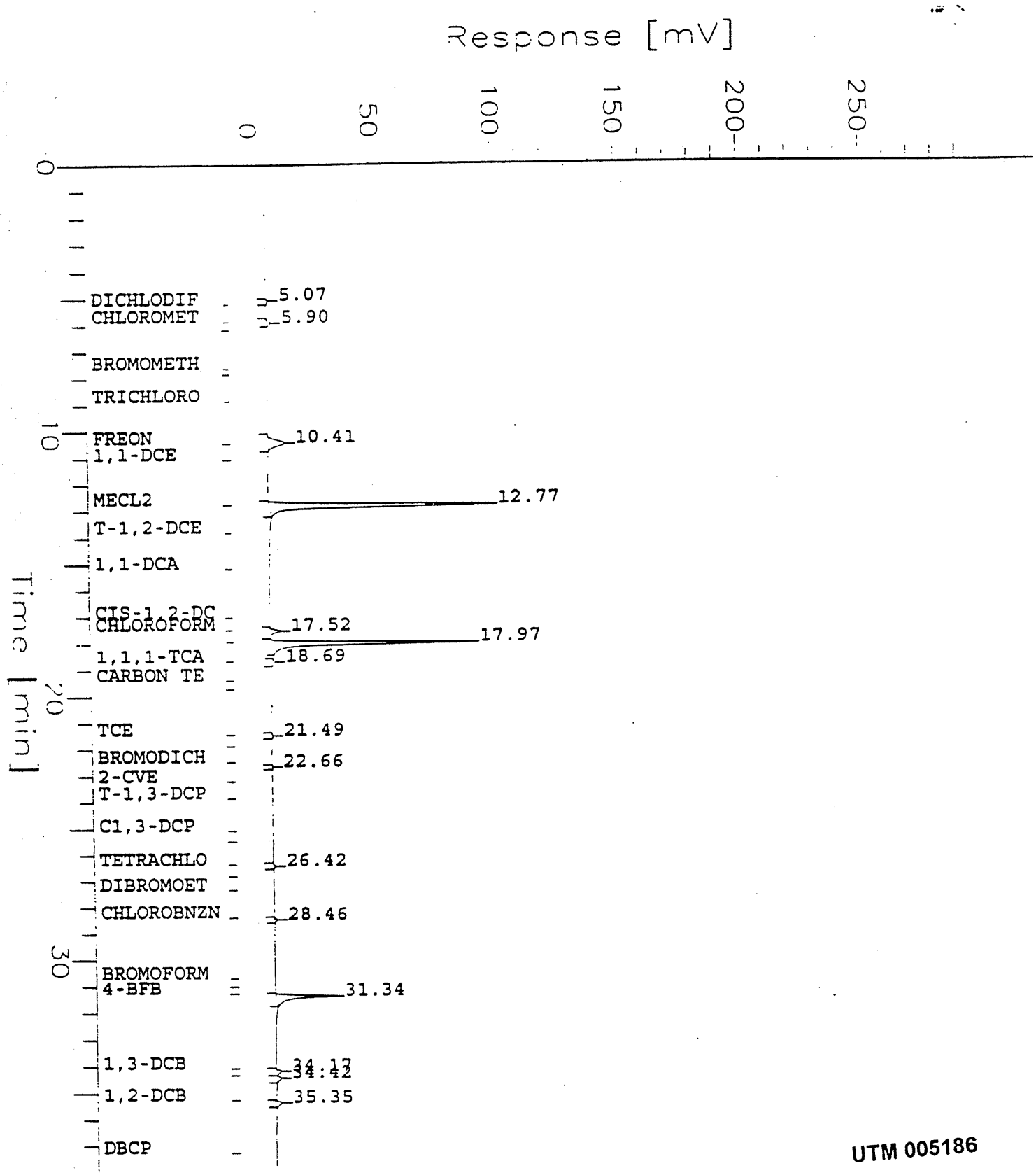
ak #	Component Name	Time (min)	Area (uV*sec)	RA*2 (%R)	Raw Amount	Adjusted Amount	Cal. Range
1	DICHLODIFLUOMETHANE	5.071	6775.00	2	1.2275	~~0.3455~~	BDL.
2	CHLOROMETHANE	5.904	11761.00	2	1.0127	~~0.3035~~	
3	FREON	10.413	107810.00	82	40.9229	~~8.1846~~	
4	MECL2	12.772	803074.50	70	35.1483	~~7.0297~~	
5	CHLOROFORM	17.519	35203.50	3	1.5565	~~0.3113~~	
6	BROMOCHLOROMETHAN	17.973	615252.50	0	0.0000	0.0000	
7	1,1,1-TCA	18.686	7852.00	8.59e-01	0.4295	~~0.0859~~	
8	TCE	21.487	4765.00	4.91e-01	0.2455	~~0.0491~~	
10	TETRACHLOROETHENE	26.418	6603.00	6.49e-01	0.3243	~~0.0649~~	BDL.
11	CHLOROBNZN	28.456	7709.00	2	1.0799	~~0.2160~~	
12	4-BFB	31.342	189499.00	107	53.3136	10.6627	
13	1,3-DCB	34.166	17288.88	3	1.6303	~~0.3261~~	
14	1,4-DCB	34.423	14541.12	3	1.5270	~~0.3054~~	
15	1,2-DCB	35.353	16420.00	3	1.4602	~~0.2920~~	

Sample Name : MB1W
FileName : h:\data\gc10\018B002.raw
Method : GC10.ins
Start Time : 0.00 min
ale Factor: -1.0

End Time : 38.00 min
Plot Offset: -8 mV

Sample #:
Date : 10/18/94 11:41 AM
Time of Injection: 10/18/94 11:03 AM
Low Point : -8.34 mV
Plot Scale: 300.0 mV

High Point : 2



UTM 005186

·oftware Version: 3.3 <4B11>
Sample Name : HLA 3279 5ML
Sample Number: DJ03279
Operator : AB/DM

Time : 10/18/94 12:27 PM
Study : 8010/8020

Instrument : OI-1/GC10
AutoSampler : NONE
Rack/Vial : 0/0

Channel : B A/D mV Range : 1000

Interface Serial # : 2156575020 Data Acquisition Time: 10/18/94 11:46 AM
Delay Time : 0.00 min.
End Time : 38.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : H:\DATA\GC10\O18B003.RAW
Result File : H:\DATA\GC10\O18B003.RST
Instrument File: H:\DATA\GC10\GC10.ins
Process File : H:\DATA\GC10\ELCD-10
Sample File : H:\DATA\GC10\E10
Sequence File : H:\DATA\GC10\O18P.SEQ

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 3000.000000
Dilution Factor : 1.00

==========

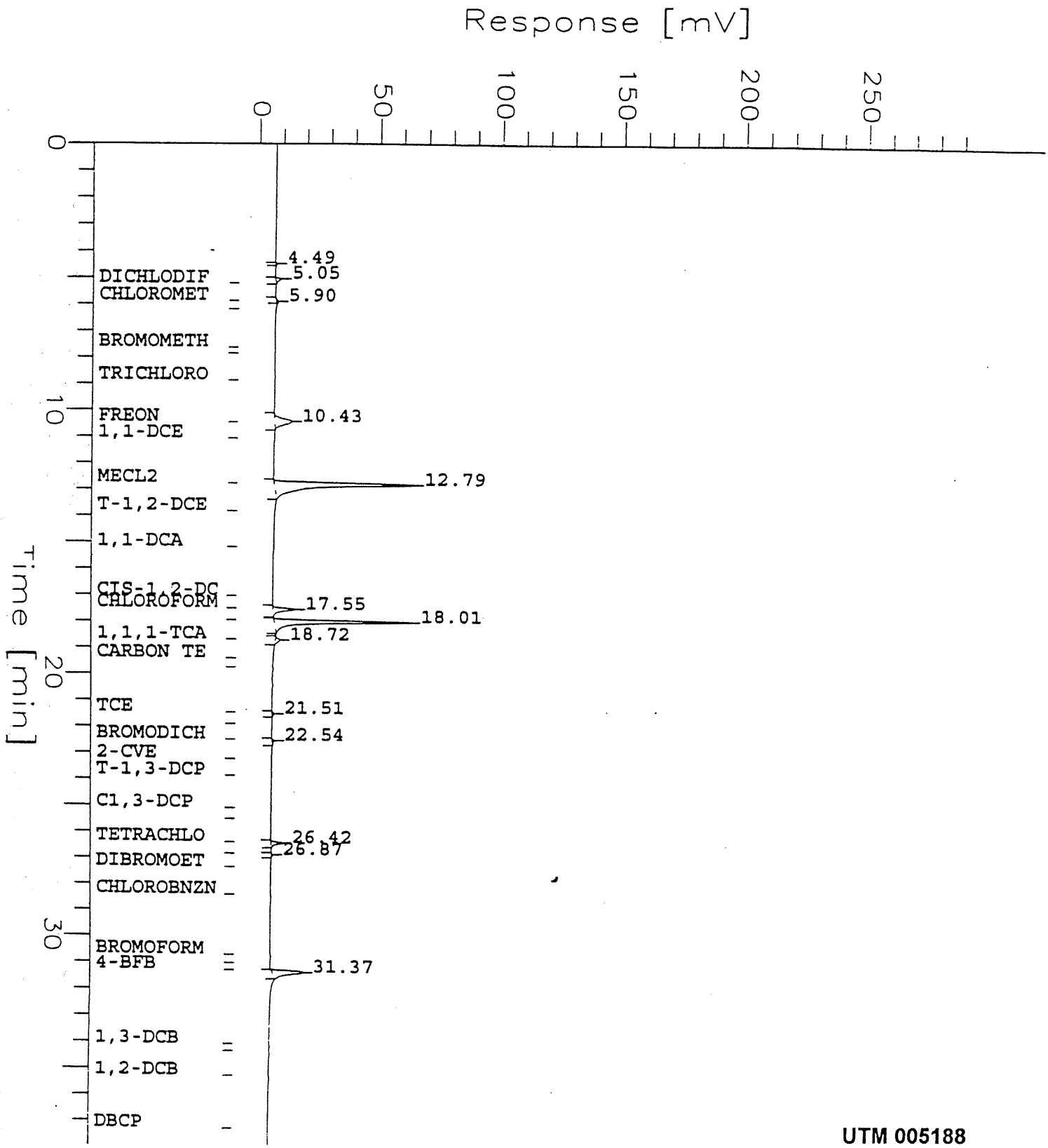
ELCD-GC#10

	Component Name	Time (min)	Area (uV*sec)	RA*2 (%R)	Raw Amount	Adjusted Amount	Cal. Range
2	DICHLODIFLUOMETHANE	5.053	17346.00	9	4.4248	~~0.8850~~	N C
3	CHLOROMETHANE	5.897	4603.00	1	0.5580	~~0.1116~~	BDL.
4	FREON	10.427	113083.00	121	60.4323	~~12.0865~~	L.C
5	MECL2	12.790	654482.00	81	40.3283	~~8.0657~~	
6	CHLOROFORM	17.548	76218.00	9	4.7443	$\boxed{0.9489}$	Y.C
7	BROMOCHLOROMETHAN	18.007	437008.00	0	0.0000	0.0000	
8	1,1,1-TCA	18.716	17418.50	3	1.3415	~~0.2683~~	BDL
9	TCE	21.514	5659.00	8.21e-01	0.4105	~~0.0821~~	
10	BROMODICHLOROMETHAN	22.538	6978.00	1	0.6948	~~0.1390~~	
11	TETRACHLOROETHENE	26.421	28707.00	4	1.9852	~~0.3970~~	
12	DIBROMOCHLOROMETHAN	26.874	4292.00	1	0.6043	~~0.1209~~	
13	4-BFB	31.366	134459.00	107	53.2580	10.6516	

UTM 005187

Sample Name : HLA 3279 5ML
FileName : H:\DATA\GC10\018B003.raw
Method : GC10.ins
Start Time : 0.00 min End Time : 38.00 min
Scale Factor: 1.0 Plot Offset: -8 mV

Sample #: DJ03279
Date : 10/18/94 12:27 PM
Time of Injection: 10/18/94 11:46 AM
Low Point : -8.36 mV High Point : 2
Plot Scale: 300.0 mV



UTM 005188

Software Version: 3.3 <4B11>
Sample Name : HLA 3280 5ML
Sample Number: DJ03280
Operator : AB/DM

Time : 10/18/94 1:08 PM
Study : 8010/8020

Instrument : OI-1/GC10
AutoSampler : NONE
Rack/Vial : 0/0

Channel : B A/D mV Range : 1000

Interface Serial # : 2156575020 Data Acquisition Time: 10/18/94 12:30 PM
Delay Time : 0.00 min.
End Time : 38.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : H:\DATA\GC10\O18B004.RAW
Result File : H:\DATA\GC10\O18B004.RST
Instrument File: H:\DATA\GC10\GC10.ins
Process File : H:\DATA\GC10\ELCD-10
Sample File : H:\DATA\GC10\E10
Sequence File : H:\DATA\GC10\O18P.SEQ

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 3000.000000
Dilution Factor : 1.00

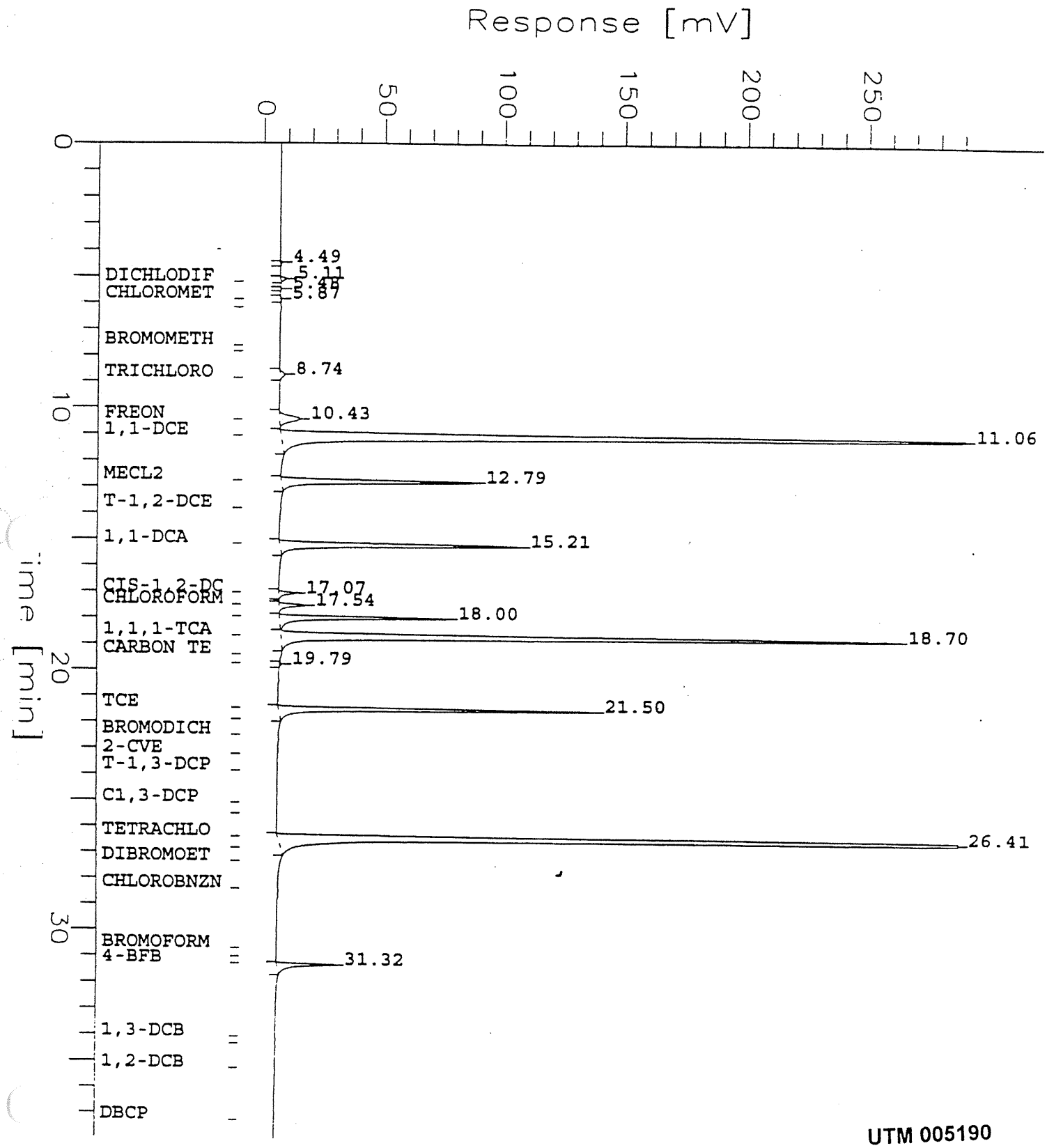
==========

ELCD-GC#10

Pk #	Component Name	Time [min]	Area [uV*sec]	RA*2 (%R)	Raw Amount	Adjusted Amount	Cal. Range
2	DICHLODIFLUOMETHANE	5.108	18582.00	8	3.9229	0.7846	
4	CHLOROMETHANE	5.868	3404.00	6.83e-01	0.3415	0.0683	
5	TRICHLOROFLUOROMETH	8.741	26236.00	5	2.6430	0.5286	
6	FREON	10.430	133105.50	118	58.8692	11.7738	
7	1,1-DCE	11.062	3616322.50	662	330.8510	66.1702	
8	MECL2	12.787	710627.00	72	36.2389	7.2478	
9	1,1-DCA	15.214	913754.00	131	65.4689	13.0938	
10	CIS-1,2-DCE	17.070	52227.50	7	3.3245	0.6649	
11	CHLOROFORM	17.536	86464.00	9	4.4542	0.8908	
12	BROMOCHLOROMETHAN	17.996	528042.62	0	0.0000	0.0000	
13	1,1,1-TCA	18.703	2426436.38	309	154.6599	30.9320	
14	1,2-DCA	19.790	5683.00	8.26e-01	0.4131	0.0826	
15	TCE	21.496	927678.00	111	55.6902	11.1380	
16	TETRACHLOROETHENE	26.411	5607608.00	642	320.9258	64.1852	
17	4-BFB	31.322	183489.00	120	60.1486	12.0297	

Sample Name : HLA 3280 5ML
ileName : h:\data\gc10\018B004.raw
ethod : GC10.ins
tart Time : 0.00 min End Time : 38.00 min
Scale Factor: -1.0 Plot Offset: -8 mV

Sample #: DJ03280
Date : 10/18/94 1:08 PM
Time of Injection: 10/18/94 12:30 PM
Low Point : -8.31 mV High Point : 2
Plot Scale: 300.0 mV



UTM 005190

oftware Version: 3.3 <4B11>
Sample Name : HLA 3281 5ML
Sample Number: DJ03281
perator : AB/DM

Time : 10/18/94 1:52 PM
Study : 8010/8020

strument : OI-1/GC10
utoSampler : NONE
Rack/Vial : 0/0

Channel : B A/D mV Range : 1000

nterface Serial # : 2156575020 Data Acquisition Time: 10/18/94 1:14 PM
Delay Time : 0.00 min.
End Time : 38.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : H:\DATA\GC10\O18B005.RAW
Result File : H:\DATA\GC10\O18B005.RST
Instrument File: H:\DATA\GC10\GC10.ins
Process File : H:\DATA\GC10\ELCD-10
Sample File : H:\DATA\GC10\E10
Sequence File : H:\DATA\GC10\O18P.SEQ

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 3000.000000
Dilution Factor : 1.00

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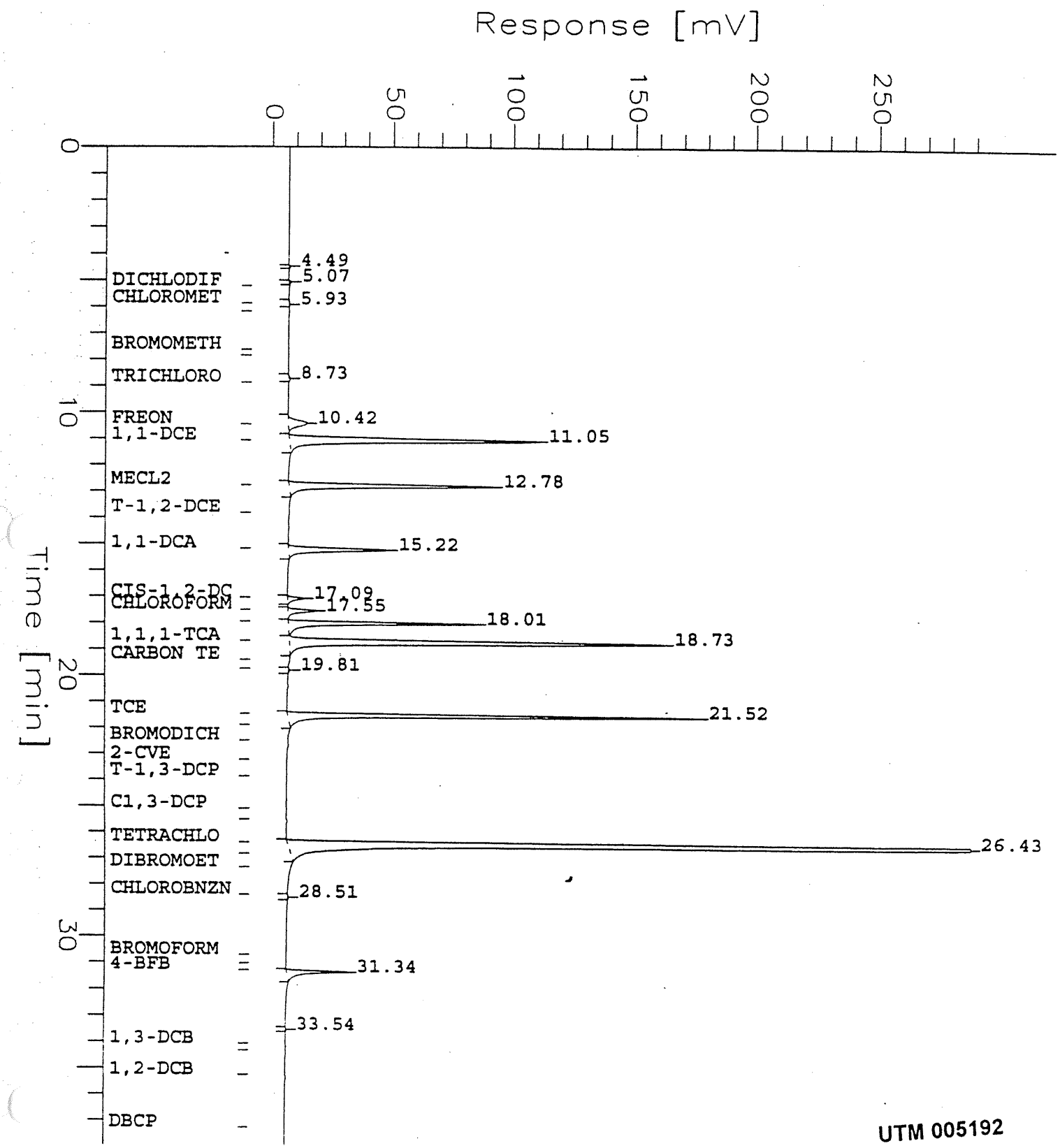
ELCD-GC#10

#	Component Name	Time [min]	Area [uV*sec]	RA*2 (%R)	Raw Amount	Adjusted Amount	Cal. Range
2	DICHLODIFLUOMETHANE	5.071	5575.50	2	1.0652	0.2130	
3	CHLOROMETHANE	5.931	4143.50	7.52e-01	0.3762	0.0752	
4	TRICHLOROFLUOROMETH	8.732	6388.00	1	0.5824	0.1165	
5	FREON	10.423	124528.00	100	49.8435	9.9687	
6	1,1-DCE	11.046	1084405.00	180	89.7854	17.9571	
7	MECL2	12.780	739676.00	68	34.1369	6.8274	
8	1,1-DCA	15.218	374870.50	49	24.3073	4.8615	
9	CIS-1,2-DCE	17.087	49321.00	6	2.8412	0.5682	
10	CHLOROFORM	17.554	92474.00	9	4.3113	0.8623	
11	BROMOCHLOROMETHAN	18.012	583471.86	0	0.0000	0.0000	
12	1,1,1-TCA	18.726	1489099.14	172	85.8977	17.1795	
13	1,2-DCA	19.814	5322.00	7.00e-01	0.3501	0.0700	
14	TCE	21.516	1189705.00	129	64.6353	12.9271	
15	TETRACHLORDETHENE	26.427	6360633.00	659	329.4400	65.8880	
16	CHLOROBNZN	28.505	3661.00	1	0.5408	0.1082	
17	4-BFB	31.340	189924.00	113	56.3436	11.2687	

Sample Name : HLA 3281 5ML
FileName : h:\data\gc10\018B005.raw
Method : GC10.ins
Start Time : 0.00 min End Time : 38.00 min
Scale Factor: -1.0 Plot Offset: -8 mV

Sample #: DJ03281 Page 1 o
Date : 10/18/94 1:52 PM
Time of Injection: 10/18/94 1:14 PM
Low Point : -8.31 mV High Point : 2
Plot Scale: 300.0 mV



UTM 005192

oftware Version: 3.3 <4B11>

Sample Name : HLA 3282 5ML
Sample Number: DJ03282
perator : AB/DM

Time : 10/18/94 2:35 PM
Study : 8010/8020

nstrument : OI-1/GC10
utoSampler : NONE
Rack/Vial : 0/0

Channel : B A/D mV Range : 1000

nterface Serial # : 2156575020 Data Acquisition Time: 10/18/94 1:57 PM
Delay Time : 0.00 min.
nd Time : 38.00 min.
ampling Rate : 1.0000 pts/sec

aw Data File : H:\DATA\GC10\O18B006.RAW
esult File : H:\DATA\GC10\O18B006.RST
Instrument File: H:\DATA\GC10\GC10.ins
rocess File : H:\DATA\GC10\ELCD-10
ample File : H:\DATA\GC10\E10
Sequence File : H:\DATA\GC10\O18P.SEQ

nj. Volume : 1 ul
Sample Amount : 1.0000

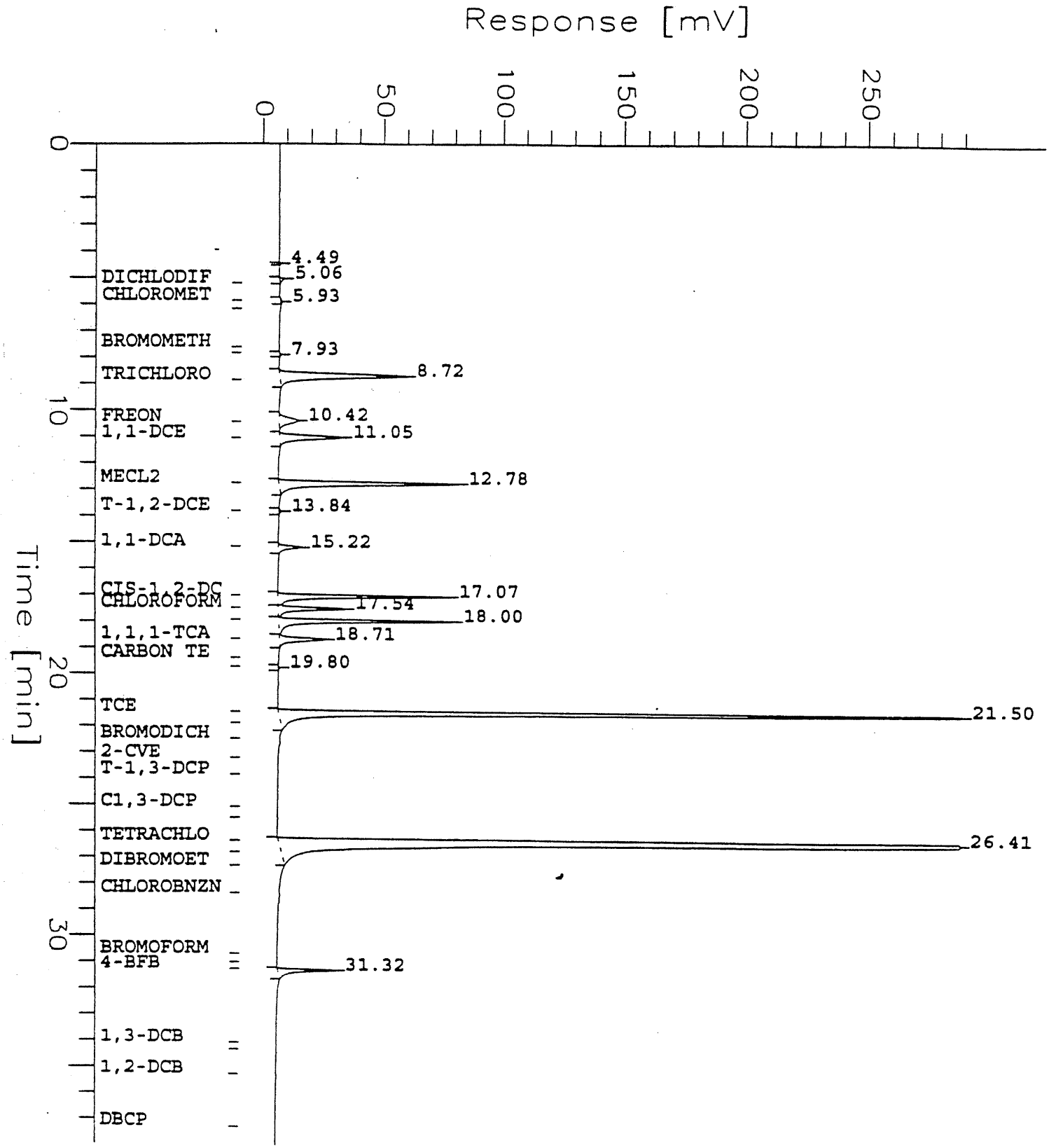
Area Reject : 3000.000000
Dilution Factor : 1.00

ELCD-GC#10

k #	Component Name	Time [min]	Area [uV*sec]	RA*2 (%R)	Raw Amount	Adjusted Amount	Cal. Range
2	DICHLODIFLUOMETHANE	5.064	14418.00	6	2.9009	0.5802	
3	CHLOROMETHANE	5.926	5624.00	1	0.5378	0.1076	
5	TRICHLOROFLUOROMETH	8.720	640095.00	123	61.4572	12.2914	
6	FREON	10.418	124805.50	105	52.6076	10.5215	
7	1,1-DCE	11.049	274294.00	48	23.9169	4.7834	
8	MECL2	12.779	686152.00	67	33.3485	6.6697	
9	T-1,2-DCE	13.838	6570.50	9.52e-01	0.4761	0.0952	
10	1,1-DCA	15.215	79659.00	11	5.4396	1.0879	
11	CIS-1,2-DCE	17.070	546351.38	66	33.1452	6.6290	
12	CHLOROFORM	17.539	232460.47	23	11.4132	2.2826	
13	BROMOCHLOROMETHAN	17.999	554046.50	0	0.0000	0.0000	
14	1,1,1-TCA	18.711	181950.66	22	11.0531	2.2106	
15	1,2-DCA	19.797	3895.00	5.40e-01	0.2699	0.0540	
16	TCE	21.497	2528165.50	289	144.6471	28.9294	
17	TETRACHLOROETHENE	26.412	8674704.50	946	473.1561	94.6312	
18	4-BFB	31.324	174214.00	109	54.4279	10.8856	

Sample Name : HLA 3282 5ML
FileName : h:\data\gc10\018B006.raw
Method : GC10.ins
Start Time : 0.00 min End Time : 38.00 min
Scale Factor: -1.0 Plot Offset: -8 mV

Sample #: DJ03282
Date : 10/18/94 2:36 PM
Time of Injection: 10/18/94 1:57 PM
Low Point : -8.32 mV High Point : 2
Plot Scale: 300.0 mV



Software Version: 3.3 <4B11>
Sample Name : HLA 3283 5ML
Sample Number: DJ03283
Operator : AB/DM

Time : 10/18/94 3:19 PM
Study : 8010/8020

Instrument : OI-1/GC10
AutoSampler : NONE
Rack/Vial : 0/0

Channel : B A/D mV Range : 1000

Interface Serial # : 2156575020 Data Acquisition Time: 10/18/94 2:41 PM
Delay Time : 0.00 min.
End Time : 38.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : H:\DATA\GC10\O18B007.RAW
Result File : H:\DATA\GC10\O18B007.RST
Instrument File: H:\DATA\GC10\GC10.ins
Process File : H:\DATA\GC10\ELCD-10
Sample File : H:\DATA\GC10\E10
Sequence File : H:\DATA\GC10\O18P.SEQ

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 3000.000000
Dilution Factor : 1.00

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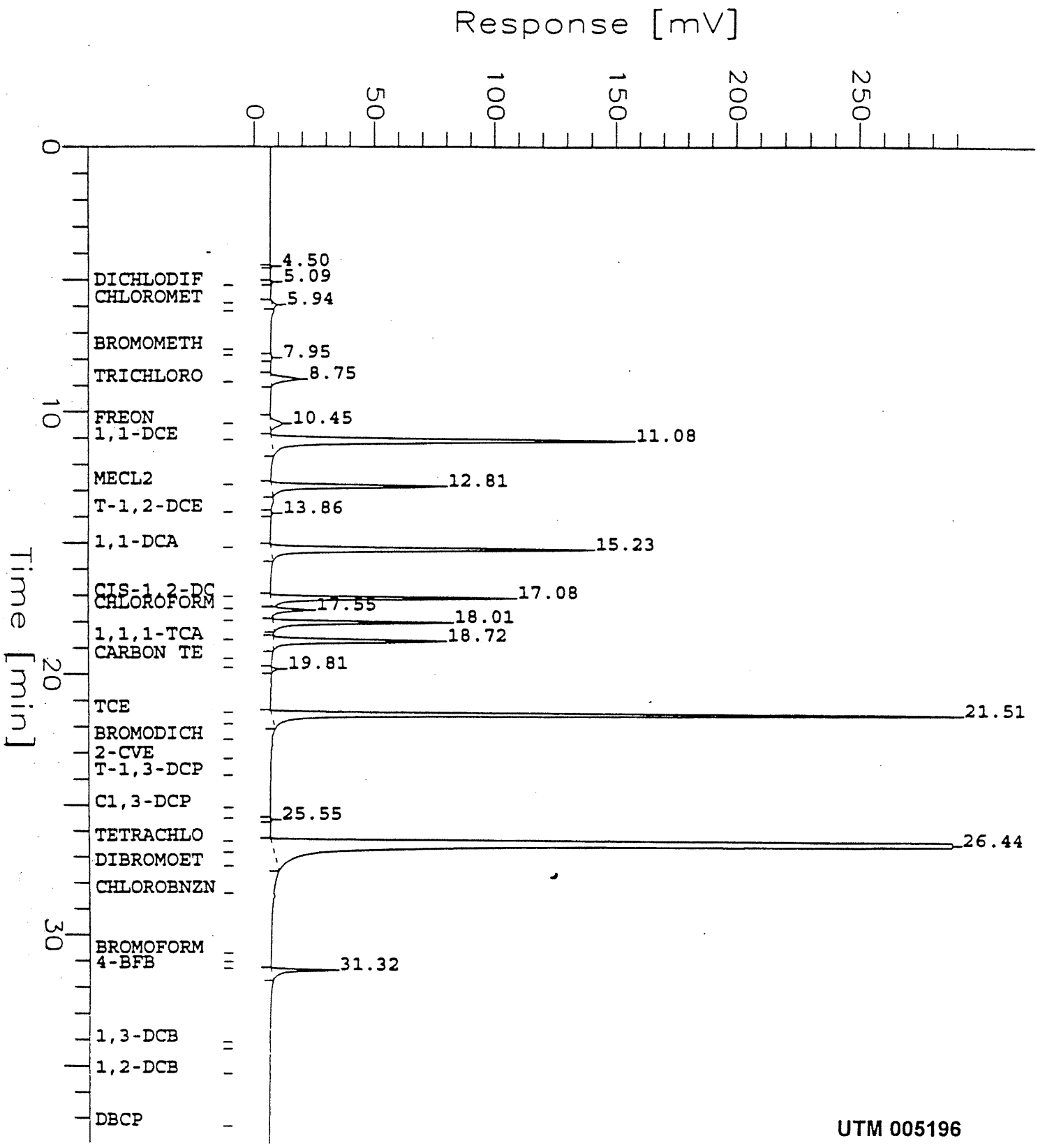
ELCD-GC#10

#	Component Name	Time [min]	Area [uV*sec]	RA*2 (%R)	Raw Amount	Adjusted Amount	Cal. Range
2	DICHLODIFLUOMETHANE	5.085	6623.00	3	1.4082	0.2816	
3	CHLOROMETHANE	5.943	19253.00	4	1.9455	0.3891	
4	CHLOROETHANE	7.952	6196.00	1	0.6937	0.1387	
5	TRICHLOROFLUOROMETH	8.752	136701.00	28	13.8702	2.7740	
6	FREON	10.452	78454.50	70	34.9474	6.9895	
7	1,1-DCE	11.079	1601541.00	295	147.5734	29.5147	
8	MECL2	12.806	621982.50	64	31.9460	6.3892	
9	T-1,2-DCE	13.862	5928.00	9.08e-01	0.4539	0.0908	
10	1,1-DCA	15.228	1185474.50	171	85.5466	17.1093	
11	CIS-1,2-DCE	17.083	753854.42	97	48.3301	9.6660	
12	CHLOROFORM	17.553	121963.58	13	6.3281	1.2656	
13	BROMOCHLOROMETHAN	18.013	524281.00	0	0.0000	0.0000	
14	1,1,1-TCA	18.722	642929.50	83	41.2740	8.2548	
15	1,2-DCA	19.805	19153.00	3	1.4023	0.2805	
16	TCE	21.507	2094292.00	253	126.6262	25.3252	
17	1,1,2-TCA	25.554	3894.00	5.39e-01	0.2693	0.0539	
18	TETRACHLOROETHENE	26.441	10598416.50	1222	610.9038	122.1808	
19	4-BFB	31.322	179421.00	118	59.2371	11.8474	

Sample Name : HLA 3283 5ML
FileName : h:\data\gc10\018B007.raw
Method : GC10.ins
Start Time : 0.00 min End Time : 38.00 min
Scale Factor: -1.0 Plot Offset: -8 mV

Sample #: DJ03283 Page 1 o
Date : 10/18/94 3:19 PM
Time of Injection: 10/18/94 2:41 PM
Low Point : -8.30 mV High Point : 2
Plot Scale: 300.0 mV



Software Version: 3.3 <4B11>
Sample Name : HLA 3284 5ML
Sample Number: DJ03284
Operator : AB/DM

Time : 10/18/94 4:02 PM
Study : 8010/8020

Instrument : OI-1/GC10
AutoSampler : NONE
Rack/Vial : 0/0

Channel : B A/D mV Range : 1000

Interface Serial # : 2156575020 Data Acquisition Time: 10/18/94 3:24 PM
Delay Time : 0.00 min.
End Time : 38.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : H:\DATA\GC10\O18B008.RAW
Result File : H:\DATA\GC10\O18B008.RST
Instrument File: H:\DATA\GC10\GC10.ins
Process File : H:\DATA\GC10\ELCD-10
Sample File : H:\DATA\GC10\E10
Sequence File : H:\DATA\GC10\O18P.SEQ

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 3000.000000
Dilution Factor : 1.00

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ELCD-GC#10

#	Component Name	Time [min]	Area [uV*sec]	RA*2 (%R)	Raw Amount	Adjusted Amount	Cal. Range
2	DICHLODIFLUOMETHANE	5.075	6450.00	3	1.3315	0.2663	
3	CHLOROMETHANE	5.917	22190.00	4	2.1769	0.4354	
4	TRICHLOROFLUOROMETH	8.761	20359.50	4	2.0055	0.4011	
5	FREON	10.458	118395.00	102	51.2017	10.2403	
6	1,1-DCE	11.092	2890966.00	517	258.6233	51.7247	
7	MECL2	12.820	606942.00	61	30.2649	6.0530	
8	1,1-DCA	15.246	19400.00	3	1.3591	0.2718	
9	CIS-1,2-DCE	17.099	14429.00	2	0.8981	0.1796	
10	CHLOROFORM	17.561	37056.00	4	1.8666	0.3733	
11	BROMOCHLOROMETHAN	18.019	540019.67	0	0.0000	0.0000	
12	1,1,1-TCA	18.726	473263.33	59	29.4965	5.8993	
13	TCE	21.514	840905.50	99	49.3615	9.8723	
15	TETRACHLOROETHENE	26.442	9917523.00	1110	554.9956	110.9991	
16	CHLOROBNZN	28.522	4207.50	1	0.6715	0.1343	
17	4-BFB	31.343	170892.00	110	54.7768	10.9554	

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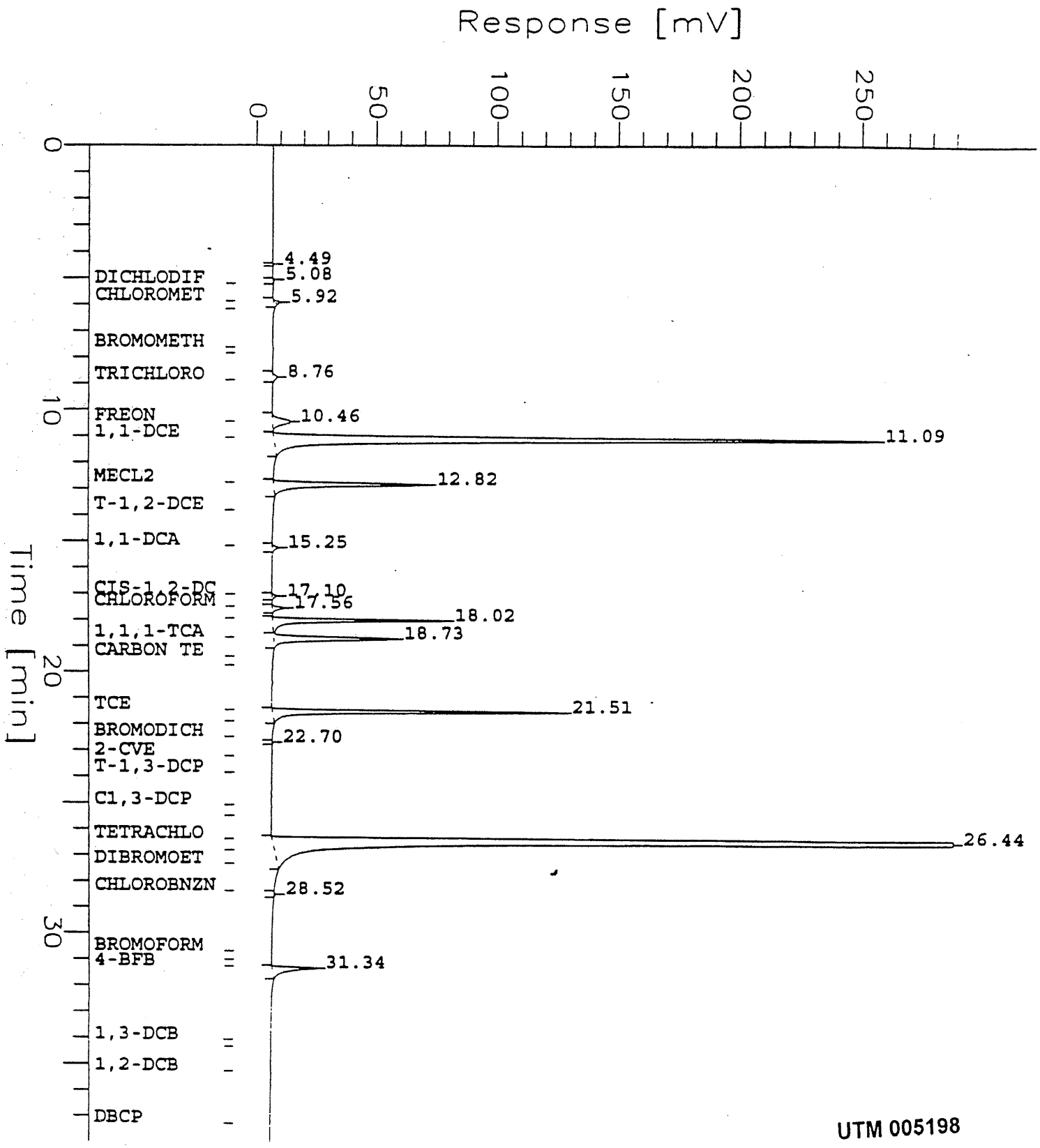
Sample Name : HLA 3284 5ML
FileName : h:\data\gc10\018B008.raw
Method : GC10.ins
Start Time : 0.00 min End Time : 38.00 min
Scale Factor: -1.0 Plot Offset: -8 mV

Sample #: DJ03284
Date : 10/18/94 4:03 PM
Time of Injection: 10/18/94 3:24 PM
Low Point : -8.30 mV
Plot Scale: 300.0 mV



UTM 005198

Software Version: 3.3 <4B11>
Sample Name : HLA 3285 5ML
Sample Number: DJ03285
Operator : AB/DM

Time : 10/18/94 4:46 PM
Study : 8010/8020

Instrument : OI-1/GC10
AutoSampler : NONE
Rack/Vial : 0/0

Channel : B A/D mV Range : 1000

Interface Serial # : 2156575020 Data Acquisition Time: 10/18/94 4:08 PM
Delay Time : 0.00 min.
End Time : 38.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : H:\DATA\GC10\O18B009.RAW
Result File : H:\DATA\GC10\O18B009.RST
Instrument File: H:\DATA\GC10\GC10.ins
Process File : H:\DATA\GC10\ELCD-10
Sample File : H:\DATA\GC10\E10
Sequence File : H:\DATA\GC10\O18P.SEQ

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 3000.000000
Dilution Factor : 1.00

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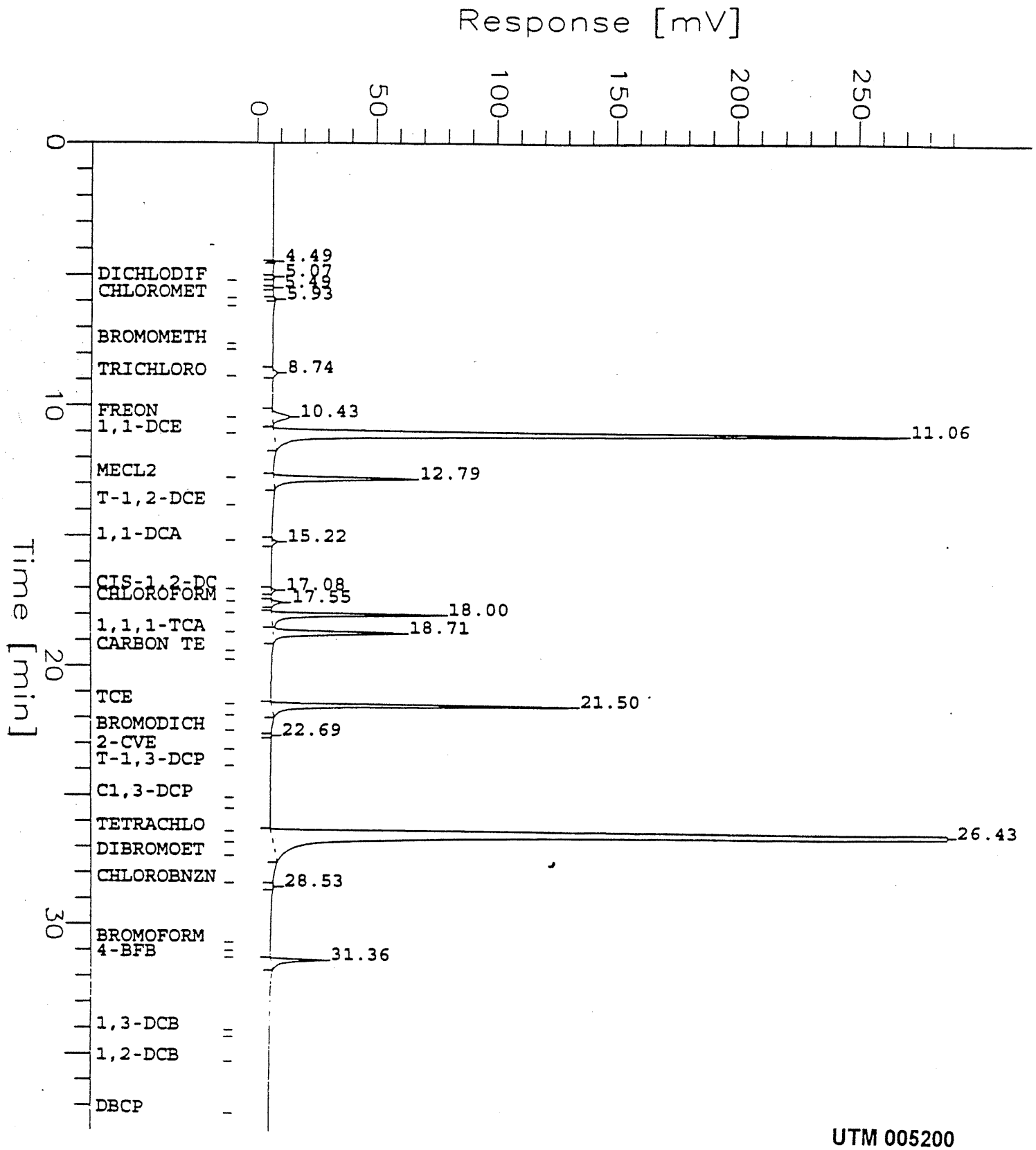
ELCD-GC#10

Pk #	Component Name	Time (min)	Area (uV*sec)	RA*2 (%R)	Raw Amount	Adjusted Amount	Cal. Range
2	DICHLODIFLUOMETHANE	5.071	3819.50	2	0.8009	0.1602	
4	CHLOROMETHANE	5.925	4241.00	8.45e-01	0.4226	0.0845	
5	TRICHLOROFLUOROMETH	8.740	21331.00	4	2.1344	0.4269	
6	FREON	10.432	115586.00	102	50.7761	10.1552	
7	1,1-DCE	11.058	2893144.50	526	262.9042	52.5808	
8	MECL2	12.789	535249.00	54	27.1113	5.4223	
9	1,1-DCA	15.222	19713.00	3	1.4029	0.2806	
10	CIS-1,2-DCE	17.082	13889.00	2	0.8781	0.1756	
11	CHLOROFORM	17.547	32809.00	3	1.6788	0.3358	
12	BROMOCHLOROMETHAN	18.004	531626.73	0	0.0000	0.0000	
13	1,1,1-TCA	18.713	509496.77	65	32.2561	6.4512	
14	TCE	21.503	878710.00	105	52.3949	10.4790	
16	TETRACHLOROETHENE	26.433	10192506.00	1159	579.3888	115.8778	
17	CHLOROBNZN	28.528	5600.00	2	0.9078	0.1816	
18	4-BFB	31.358	175445.00	114	57.1240	11.4248	

Sample Name : HLA 3285 5ML
FileName : h:\data\gc10\018B009.raw
Method : GC10.ins
Start Time : 0.00 min End Time : 38.00 min
Scale Factor: -1.0 Plot Offset: -8 mV

Sample #: DJ03285
Date : 10/18/94 4:46 PM
Time of Injection: 10/18/94 4:08 PM
Low Point : -8.25 mV High Point : 2
Plot Scale: 300.0 mV



UTM 005200

Software Version: 3.3 <4B11>
Sample Name : MS1W 3279 10PPB
Sample Number: DJ03279
Operator : AB/DM

Time : 10/19/94 9:33 AM
Study : 8010/8020

Instrument : OI-1/GC10
AutoSampler : NONE
Rack/Vial : 0/0

Channel : B A/D mV Range : 1000

Interface Serial # : 2156575020 Data Acquisition Time: 10/18/94 10:40 PM
Delay Time : 0.00 min.
End Time : 38.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : H:\DATA\GC10\O18B018.RAW
Result File : H:\DATA\GC10\O18B018.RST
Instrument File: H:\DATA\GC10\GC10.ins
Process File : H:\DATA\GC10\ELCD-10
Sample File : H:\DATA\GC10\E10
Sequence File : H:\DATA\GC10\O18P.SEQ

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 3000.000000
Dilution Factor : 1.00

==========

ELCD-GC#10

Peak #	Component Name	Time (min)	Area (uV*sec)	RA*2 (%R)	Raw Amount	Adjusted Amount	Cal. Range
2	DICHLODIFLUOMETHANE	5.118	239382.00	96	48.1106	9.6221	
3	CHLOROMETHANE	5.813	483937.05	92	46.2223	9.2445	
4	VINYL CHLORIDE	6.161	451965.95	89	44.3320	8.8664	
5	BROMOMETHANE	7.553	155510.12	98	48.9848	9.7970	
6	CHLOROETHANE	7.816	367704.38	78	38.9148	7.7830	
7	TRICHLOROFLUOROMETH	8.754	449569.00	86	43.1161	8.6232	
8	1,1-DCE	11.086	508733.00	89	44.3091	8.8618	
9	MECL2	12.815	1242299.00	121	60.3110	12.0622	
10	T-1,2-DCE	13.865	636365.00	92	46.0563	9.2113	
11	1,1-DCA	15.242	694971.50	95	47.4035	9.4807	
12	CIS-1,2-DCE	17.095	781937.77	95	47.3844	9.4769	
13	CHLOROFORM	17.561	1011906.31	99	49.6266	9.9253	
14	BROMOCHLOROMETHAN	18.025	554665.91	0	0.0000	0.0000	
15	1,1,1-TCA	18.734	776575.00	94	47.1226	9.4245	
16	CARBON TETRACHLORIDE	19.460	864297.53	92	45.8044	9.1609	
17	1,2-DCA	19.807	723736.47	100	50.0862	10.0172	
18	TCE	21.525	827284.71	95	47.2796	9.4559	
19	1,2-DCP	21.956	671903.29	100	50.1826	10.0365	
20	BROMODICHLOROMETHAN	22.550	654942.00	103	51.3812	10.2762	
21	T-1,3-DCP	23.917	583376.00	103	51.3000	10.2600	
22	C1,3-DCP	25.153	607679.79	99	49.5060	9.9012	
23	1,1,2-TCA	25.553	791294.21	103	51.7211	10.3442	
24	TETRACHLOROETHENE	26.433	838956.38	91	45.7092	9.1418	
25	DIBROMOCHLOROMETHAN	26.879	491647.62	109	54.5360	10.9072	
26	DIBROMOETHANE	27.405	317070.50	108	53.9870	10.7974	
27	CHLOROBNZN	28.444	341356.50	106	53.0404	10.6081	
28	BROMOFORM	30.756	267925.00	106	52.9737	10.5947	
29	1,1,2,2-TCA	31.067	487503.94	87	43.7249	8.7450	
30	4-BFB	31.332	201055.06	125	62.7434	12.5487	
32	1,3-DCB	34.127	456605.98	96	47.7614	9.5523	
33	1,4-DCB	34.382	426306.02	99	49.6572	9.9314	
34	1,2-DCB	35.320	505625.00	100	49.8762	9.9752	

Software Version: 3.3 <4B11>

Sample Name : MSD1W 3279 10PPB
Sample Number: DJ03279
Operator : AB/DM

Time : 10/19/94 9:34 AM
Study : 8010/8020

Instrument : OI-1/GC10
AutoSampler : NONE
Rack/Vial : 0/0

Channel : B A/D mV Range : 1000

Interface Serial # : 2156575020 Data Acquisition Time: 10/18/94 11:23 PM
Delay Time : 0.00 min.
End Time : 38.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : H:\DATA\GC10\O18B019.RAW
Result File : H:\DATA\GC10\O18B019.RST
Instrument File: H:\DATA\GC10\GC10.ins
Process File : H:\DATA\GC10\ELCD-10
Sample File : H:\DATA\GC10\E10
Sequence File : H:\DATA\GC10\O18P.SEQ

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 3000.000000
Dilution Factor : 1.00

ELCD-GC#10

Peak #	Component Name	Time (min)	Area (uV*sec)	RA*2 (%R)	Raw Amount	Adjusted Amount	Cal. Range
2	DICHLODIFLUOMETHANE	5.116	226593.00	90	44.8722	8.9744	
3	CHLOROMETHANE	5.809	440485.17	83	41.4548	8.2910	
4	VINYL CHLORIDE	6.155	425533.83	82	41.1270	8.2254	
5	BROMOMETHANE	7.545	155112.00	96	48.1426	9.6285	
6	CHLOROETHANE	7.804	366081.00	76	38.1746	7.6349	
7	TRICHLOROFLUOROMETH	8.738	446506.00	84	42.1941	8.4388	
8	1,1-DCE	11.066	496867.00	85	42.6407	8.5281	
9	MECL2	12.799	1266785.50	121	60.5975	12.1195	
10	T-1,2-DCE	13.850	618249.50	88	44.0887	8.8177	
11	1,1-DCA	15.231	679063.50	91	45.6388	9.1278	
12	CIS-1,2-DCE	17.085	775254.99	93	46.2902	9.2580	
13	CHLOROFORM	17.551	1015440.81	98	49.0693	9.8139	
14	BROMOCHLOROMETHAN	18.013	562924.70	0	0.0000	0.0000	
15	1,1,1-TCA	18.722	769701.00	92	46.0203	9.2041	
16	CARBON TETRACHLORIDE	19.447	854209.15	89	44.6056	8.9211	
17	1,2-DCA	19.793	727787.85	99	49.6276	9.9255	
18	TCE	21.511	794837.36	90	44.7588	8.9518	
19	1,2-DCP	21.944	664546.64	98	48.9050	9.7810	
20	BROMODICHLOROMETHAN	22.539	647705.00	100	50.0680	10.0136	
21	T-1,3-DCP	23.914	545806.00	95	47.2920	9.4584	
22	C1,3-DCP	25.157	589308.83	95	47.3050	9.4610	
23	1,1,2-TCA	25.560	782298.17	101	50.3829	10.0766	
24	TETRACHLOROETHENE	26.445	835274.93	90	44.8410	8.9682	
25	DIBROMOCHLOROMETHAN	26.894	476799.07	104	52.1130	10.4226	
26	DIBROMOETHANE	27.421	310942.00	104	52.1668	10.4334	
27	CHLOROBNZN	28.465	324571.00	99	49.6923	9.9385	
28	BROMOFORM	30.780	268010.50	104	52.2132	10.4426	
29	1,1,2,2-TCA	31.091	535783.60	95	47.3501	9.4700	
30	4-BFB	31.355	199538.40	123	61.3565	12.2713	
32	1,3-DCB	34.151	460952.87	95	47.5087	9.5017	
33	1,4-DCB	34.406	427792.13	98	49.0992	9.8198	
34	1,2-DCB	35.342	515408.00	100	50.0953	10.0191	

FACSIMILE TRANSMISSION

To: BOB GRIFFIS / UTM

Fax Number: 818 965-2010

From: KEVIN TROUT

Date: 1/4/94

Subject: AUG 17 SAMPLING RESULTS

Project Number: 25109 14

Number of pages (including this cover sheet): 9

Remarks:

BOB,

HERE ARE THE HIGH TURBIDITY SAMPLING RESULTS FROM AUG 17. IF YOU HAVE ANY QUESTIONS CALL KURT OR MYSELF.

THANKS

KEVIN

cc:

Transmitted by:

If you do not receive all pages, please call Mignonne at (714) 556-7992

Harding Lawson Associates
Engineering and Environmental Services
3 Hutton Centre Drive, Suite 300
Santa Ana, CA 92707 – (714) 556-7992

FAX (714) 662-3297

Del Mar Analytical
2052 Alton Ave., Irvine, CA 92714 (714) 261-1022 FAX (714) 261-1228
1014 E. Chapman Dr., Suite A, Corona, CA 92879 (909) 370-4667 FAX (909) 370-1045
16525 Sherman Way, Suite C-11, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843
2405 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8772 FAX (602) 968-1338

Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Brad Elsmen

Client Project ID: 25109-3
Utility Trailer
Sample Descript: Water, MW-2
Lab Number: DH03972

Sampled: Aug 17, 199
Received: Aug 17, 199
Analyzed: Aug 22, 199
Reported: Aug 24, 199

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	10	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	10	N.D.
Chloroethane	25	N.D.
2-Chloroethylvinyl ether	25	N.D.
Chloroform	5.0	N.D.
Chloromethane	10	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	8.6
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	50	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	160
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	15
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	10	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution. Detection limits for this sample have been raised by a factor of 10.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Staube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	86%

DH03972.HLA <1 of 9>

Del Mar Analytical
2652 Alton Ave., Irvine, CA 92714 (714) 261-1022 FAX (714) 261-1228
1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
16525 Sherman Way, Suite C-11, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843
2401 W. 17th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates	Client Project ID: 25109-3	Sampled: Aug 17, 199
3 Hutton Centre, Suite 300	Utility Trailer	Received: Aug 17, 199
Santa Ana, CA 92707	Sample Descript: Water, MW-3	Analyzed: Aug 22, 199
Attention: Brad Eismen	Lab Number: DI103973	Reported: Aug 24, 199

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	10	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	10	N.D.
Chloroethane	25	N.D.
2-Chloroethylvinyl ether	25	N.D.
Chloroform	5.0	N.D.
Chloromethane	10	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	**5.0**	**6.5**
cis-1,2-Dichloroethene	**5.0**	**6.2**
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	50	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	**5.0**	**210**
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	**5.0**	**45**
Trichlorofluoromethane	**5.0**	**7.2**
Vinyl chloride	10	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution. Detection limits for this sample have been raised by a factor of 10.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Stoube
Laboratory Director

Surrogate Standard Recovery*	
4-Bromofluorobenzene	88%

DI103972.HLA <2 of 9>

Del Mar Analytical
2852 Alton Ave., Irvine, CA 92714 (714) 261-1022 FAX (714) 261-12
1010 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-11
16525 Sherman Way, Suite C-17, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-18
2415 W. 13th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-153

Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Brad Elsmen

Client Project ID: 25109-3
Utility Trailer
Sample Descript: Water, MW-4
Lab Number: DH03974

Sampled: Aug 17, 19
Received: Aug 17, 19
Analyzed: Aug 22, 19
Reported: Aug 24, 19

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)
Bromodichloromethane	13	N.D.
Bromoform	13	N.D.
Bromomethane	25	N.D.
Carbon tetrachloride	13	N.D.
Chlorobenzene	25	N.D.
Chloroethane	63	N.D.
2-Chloroethylvinyl ether	63	N.D.
Chloroform	13	N.D.
Chloromethane	25	N.D.
Dibromochloromethane	13	N.D.
1,2-Dichlorobenzene	25	N.D.
1,3-Dichlorobenzene	25	N.D.
1,4-Dichlorobenzene	25	N.D.
1,1-Dichloroethane	13	N.D.
1,2-Dichloroethane	13	N.D.
1,1-Dichloroethene	13	81
cis-1,2-Dichloroethene	13	N.D.
trans-1,2-Dichloroethene	13	N.D.
1,2-Dichloropropane	13	N.D.
cis-1,3-Dichloropropene	13	N.D.
trans-1,3-Dichloropropene	13	N.D.
Methylene chloride	130	N.D.
1,1,2,2-Tetrachloroethane	13	N.D.
Tetrachloroethene	13	340
1,1,1-Trichloroethane	13	N.D.
1,1,2-Trichloroethane	13	N.D.
Trichloroethene	13	N.D.
Trichlorofluoromethane	13	N.D.
Vinyl chloride	25	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution. Detection limits for this sample have been raised by a factor of 25

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Mark Wilmer for
Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	92%

DH03972 HLA <3 of 9>

Del Mar Analytical

2652 Alton Ave., Irvine, CA 92714 (714) 261-1022 FAX (714) 261-12
10[illegible] E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-10
16592 Sherman Way, Suite C-11, Van Nuys, CA 91406 (818) 773-1844 FAX (818) 773-18
2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8772 FAX (602) 968-13

Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Brad Elsmen

Client Project ID: 25109-3
Utility Trailer
Sample Descript: Water, MW-5
Lab Number: DH03975

Sampled: Aug 17, 19[illegible]
Received: Aug 17, 19[illegible]
Analyzed: Aug 22, 19[illegible]
Reported: Aug 24, 19[illegible]

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)
Bromodichloromethane	1.3	N.D.
Bromoform	1.3	N.D.
Bromomethane	2.5	N.D.
Carbon tetrachloride	1.3	N.D.
Chlorobenzene	2.5	N.D.
Chloroethane	8.3	N.D.
2-Chloroethylvinyl ether	8.3	N.D.
Chloroform	1.3	N.D.
Chloromethane	2.5	N.D.
Dibromochloromethane	1.3	N.D.
1,2-Dichlorobenzene	2.5	N.D.
1,3-Dichlorobenzene	2.5	N.D.
1,4-Dichlorobenzene	2.5	N.D.
1,1-Dichloroethane	1.3	18
1,2-Dichloroethane	1.3	N.D.
1,1-Dichloroethene	1.3	90
cis-1,2-Dichloroethene	1.3	N.D.
trans-1,2-Dichloroethene	1.3	N.D.
1,2-Dichloropropane	1.3	N.D.
cis-1,3-Dichloropropene	1.3	N.D.
trans-1,3-Dichloropropene	1.3	N.D.
Methylene chloride	13	N.D.
1,1,2,2-Tetrachloroethane	1.3	N.D.
Tetrachloroethene	1.3	60
1,1,1-Trichloroethane	1.3	40
1,1,2-Trichloroethane	1.3	N.D.
Trichloroethene	1.3	9.1
Trichlorofluoromethane	1.3	N.D.
Vinyl chloride	2.5	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution. Detection limits for this sample have been raised by a factor of 2.5.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Staube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	87%

DH03972.HLA <4 of 8>

Del Mar Analytical
2852 Alton Ave., Irvine, CA 92714 (714) 261-1022 FAX (714) 261-12
1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-17
16525 Sherman Way, Suite C-11, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-18
2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-12

Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Brad Elemen

Client Project ID: 25109-3
Utility Trailer
Sample Descript: Water, MW-6
Lab Number: DH03976

Sampled: Aug 17, 19
Received: Aug 17, 19
Analyzed: Aug 22, 19
Reported: Aug 24, 19

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)
Bromodichloromethane	2.5	N.D.
Bromoform	2.5	N.D.
Bromomethane	5.0	N.D.
Carbon tetrachloride	2.5	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	13	N.D.
2-Chloroethylvinyl ether	13	N.D.
Chloroform	2.5	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	2.5	N.D.
1,2-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
1,1-Dichloroethane	2.5	3.7
1,2-Dichloroethane	2.5	N.D.
1,1-Dichloroethene	2.5	12
cis-1,2-Dichloroethene	2.5	N.D.
trans-1,2-Dichloroethene	2.5	N.D.
1,2-Dichloropropane	2.5	N.D.
cis-1,3-Dichloropropene	2.5	N.D.
trans-1,3-Dichloropropene	2.5	N.D.
Methylene chloride	25	N.D.
1,1,2,2-Tetrachloroethane	2.5	N.D.
Tetrachloroethene	2.5	71
1,1,1-Trichloroethane	2.5	16
1,1,2-Trichloroethane	2.5	N.D.
Trichloroethene	2.5	12
Trichlorofluoromethane	2.5	N.D.
Vinyl chloride	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution. Detection limits for this sample have been raised by a factor of 5.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Stauhe
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	88%

DH03972.HLA <5 of 9>

Del Mar Analytical
2852 Alton Ave., Irvine, CA 92714 (714) 261-1022 FAX (714) 261-1[illegible]
1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1[illegible]
16535 Sherman Way, Suite C-11, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1[illegible]
2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1[illegible]

Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Brad Elsmen

Client Project ID: 25109-3
Utility Trailer
Sample Descript: Water, MW-7
Lab Number: DH03977

Sampled: Aug 17, 1[illegible]94
Received: Aug 17, 1[illegible]94
Analyzed: Aug 22, 1[illegible]94
Reported: Aug 24, 1[illegible]94

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	10	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	10	N.D.
Chloroethane	25	N.D.
2-Chloroethylvinyl ether	25	N.D.
Chloroform	5.0	N.D.
Chloromethane	10	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	5.0	6.5
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	16
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	50	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	240
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	20
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	10	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution. Detection limits for this sample have been raised by a factor of 10.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steuba
Laboratory Director

Surrogate Standard Recovery:	
4 Bromofluorobenzene	90%

DH03972.HLA <6 of 9>

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2445 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1[illegible]

Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Brad Eismen

Client Project ID: 25109-3
Utility Trailer
Sample Descript: Water, MW-8
Lab Number: DH03978

Sampled: Aug 17, 1994
Received: Aug 17, 1994
Analyzed: Aug 22, 1994
Reported: Aug 24, 1994

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)
Bromodichloromethane	0.50	N.D.
Bromoform	0.50	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	1.0	N.D.
Chloroethane	2.5	N.D.
2-Chloroethylvinyl ether	2.6	N.D.
Chloroform	0.50	1.2
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	1.0	N.D.
1,3-Dichlorobenzene	1.0	N.D.
1,4-Dichlorobenzene	1.0	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3 Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	0.64
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	0.50	N.D.
Vinyl chloride	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recovery	
4-Bromofluorobenzene	84%

DH03972.HLA <7 of 9>

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-[illegible]

Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Brad Eismen

Client Project ID: 25109-3
Utility Trailer
Sample Descript: Water
First Sample #: DH03972

Sampled: Aug 17, 1994
Received: Aug 17, 1994
Analyzed: Aug 17, 1994
Reported: Aug 24, 1994

TURBIDITY (EPA 180.1)

Laboratory Number	Sample Description	Detection Limit NTU	Sample Result NTU
DH03972	MW-2	1.0	240
DH03973	MW 3	1.0	10
DH03974	MW-4	1.0	44
DH03975	MW-5	1.0	160
DH03976	MW-6	1.0	450

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

DH03972.HLA

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Harding Lawson Associates	Client Project ID: 28739-05	Sampled:	Oct 14, 1994
3 Hutton Centre, Suite 300	UTM	Received:	Oct 14, 1994
Santa Ana, CA 92707	Sample Descript: Water, MW-08	Analyzed:	Oct 18, 1994
Attention: Brad Eismen	Lab Number: DJ03279	Reported:	Oct 19, 1994

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)
Bromodichloromethane	0.50	N.D.
Bromoform	0.50	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	1.0	N.D.
Chloroethane	2.5	N.D.
2-Chloroethylvinyl ether	2.5	N.D.
Chloroform	**0.50**	**0.95**
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	1.0	N.D.
1,3-Dichlorobenzene	1.0	N.D.
1,4-Dichlorobenzene	1.0	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	0.50	N.D.
Vinyl chloride	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	107%

UTM 005212

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates	Client Project ID: 28739-05	Sampled: Oct 14, 1994
3 Hutton Centre, Suite 300	UTM	Received: Oct 14, 1994
Santa Ana, CA 92707	Sample Descript: Water, MW-05	Analyzed: Oct 18, 1994
Attention: Brad Eismen	Lab Number: DJ03280	Reported: Oct 19, 1994

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)
Bromodichloromethane	1.3	N.D.
Bromoform	1.3	N.D.
Bromomethane	2.5	N.D.
Carbon tetrachloride	1.3	N.D.
Chlorobenzene	2.5	N.D.
Chloroethane	6.3	N.D.
2-Chloroethylvinyl ether	6.3	N.D.
Chloroform	1.3	N.D.
Chloromethane	2.5	N.D.
Dibromochloromethane	1.3	N.D.
1,2-Dichlorobenzene	2.5	N.D.
1,3-Dichlorobenzene	2.5	N.D.
1,4-Dichlorobenzene	2.5	N.D.
1,1-Dichloroethane	**1.3**	**14**
1,2-Dichloroethane	1.3	N.D.
1,1-Dichloroethene	**1.3**	**69**
cis-1,2-Dichloroethene	1.3	N.D.
trans-1,2-Dichloroethene	1.3	N.D.
1,2-Dichloropropane	1.3	N.D.
cis-1,3-Dichloropropene	1.3	N.D.
trans-1,3-Dichloropropene	1.3	N.D.
Methylene chloride	13	N.D.
1,1,2,2-Tetrachloroethane	1.3	N.D.
Tetrachloroethene	**1.3**	**78**
1,1,1-Trichloroethane	**1.3**	**34**
1,1,2-Trichloroethane	1.3	N.D.
Trichloroethene	**1.3**	**13**
Trichlorofluoromethane	1.3	N.D.
Vinyl chloride	2.5	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution. Detection limits for this sample have been raised by a factor of 2.5.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	95%

UTM 005213

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Harding Lawson Associates	Client Project ID: 28739-05	Sampled: Oct 14, 1994
3 Hutton Centre, Suite 300	UTM	Received: Oct 14, 1994
Santa Ana, CA 92707	Sample Descript: Water, MW-06	Analyzed: Oct 18, 1994
Attention: Brad Eismen	Lab Number: DJ03281	Reported: Oct 19, 1994

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)
Bromodichloromethane	1.3	N.D.
Bromoform	1.3	N.D.
Bromomethane	2.5	N.D.
Carbon tetrachloride	1.3	N.D.
Chlorobenzene	2.5	N.D.
Chloroethane	6.3	N.D.
2-Chloroethylvinyl ether	6.3	N.D.
Chloroform	1.3	N.D.
Chloromethane	2.5	N.D.
Dibromochloromethane	1.3	N.D.
1,2-Dichlorobenzene	2.5	N.D.
1,3-Dichlorobenzene	2.5	N.D.
1,4-Dichlorobenzene	2.5	N.D.
1,1-Dichloroethane	**1.3**	**4.9**
1,2-Dichloroethane	1.3	N.D.
1,1-Dichloroethene	**1.3**	**16**
cis-1,2-Dichloroethene	1.3	N.D.
trans-1,2-Dichloroethene	1.3	N.D.
1,2-Dichloropropane	1.3	N.D.
cis-1,3-Dichloropropene	1.3	N.D.
trans-1,3-Dichloropropene	1.3	N.D.
Methylene chloride	13	N.D.
1,1,2,2-Tetrachloroethane	1.3	N.D.
Tetrachloroethene	**1.3**	**86**
1,1,1-Trichloroethane	**1.3**	**19**
1,1,2-Trichloroethane	1.3	N.D.
Trichloroethene	**1.3**	**15**
Trichlorofluoromethane	1.3	N.D.
Vinyl chloride	2.5	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution. Detection limits for this sample have been raised by a factor of 2.5.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	97%

UTM 005214

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Brad Eismen

Client Project ID: 28739-05
UTM
Sample Descript: Water, MW-03
Lab Number: DJ03282

Sampled: Oct 14, 1994
Received: Oct 14, 1994
Analyzed: Oct 18, 1994
Reported: Oct 19, 1994

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)
Bromodichloromethane	2.5	N.D.
Bromoform	**2.5**	**2.8**
Bromomethane	5.0	N.D.
Carbon tetrachloride	2.5	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	13	N.D.
2-Chloroethylvinyl ether	13	N.D.
Chloroform	2.5	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	**2.5**	**5.3**
1,2-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
1,1-Dichloroethane	2.5	N.D.
1,2-Dichloroethane	2.5	N.D.
1,1-Dichloroethene	**2.5**	**4.4**
cis-1,2-Dichloroethene	**2.5**	**6.7**
trans-1,2-Dichloroethene	2.5	N.D.
1,2-Dichloropropane	2.5	N.D.
cis-1,3-Dichloropropene	2.5	N.D.
trans-1,3-Dichloropropene	2.5	N.D.
Methylene chloride	25	N.D.
1,1,2,2-Tetrachloroethane	2.5	N.D.
Tetrachloroethene	**2.5**	**160**
1,1,1-Trichloroethane	2.5	N.D.
1,1,2-Trichloroethane	2.5	N.D.
Trichloroethene	**2.5**	**33**
Trichlorofluoromethane	**2.5**	**13**
Vinyl chloride	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution. Detection limits for this sample have been raised by a factor of 5.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	94%

UTM 005215

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates	Client Project ID: 28739-05	Sampled:	Oct 14, 1994
3 Hutton Centre, Suite 300	UTM	Received:	Oct 14, 1994
Santa Ana, CA 92707	Sample Descript: Water, MW-02	Analyzed:	Oct 18, 1994
Attention: Brad Eismen	Lab Number: DJ03283	Reported:	Oct 19, 1994

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)
Bromodichloromethane	5.0	N.D.
Bromoform	**5.0**	**6.1**
Bromomethane	10	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	10	N.D.
Chloroethane	25	N.D.
2-Chloroethylvinyl ether	25	N.D.
Chloroform	5.0	N.D.
Chloromethane	10	N.D.
Dibromochloromethane	**5.0**	**13**
1,2-Dichlorobenzene	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	**5.0**	**18**
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	**5.0**	**25**
cis-1,2-Dichloroethene	**5.0**	**9.5**
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	50	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	**5.0**	**360**
1,1,1-Trichloroethane	**5.0**	**9.5**
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	**5.0**	**30**
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	10	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution. Detection limits for this sample have been raised by a factor of 10.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	105%

UTM 005216

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Harding Lawson Associates	Client Project ID: 28739-05	Sampled:	Oct 14, 199
3 Hutton Centre, Suite 300	UTM	Received:	Oct 14, 199
Santa Ana, CA 92707	Sample Descript: Water, MW-04	Analyzed:	Oct 18, 199
Attention: Brad Eismen	Lab Number: DJ03284	Reported:	Oct 19, 199

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	10	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	10	N.D.
Chloroethane	25	N.D.
2-Chloroethylvinyl ether	25	N.D.
Chloroform	5.0	N.D.
Chloromethane	10	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	**5.0**	**53**
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	50	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	**5.0**	**310**
1,1,1-Trichloroethane	**5.0**	**6.1**
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	**5.0**	**9.4**
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	10	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution. Detection limits for this sample have been raised by a factor of 10.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	102%

UTM 005217

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Harding Lawson Associates	Client Project ID: 28739-05	Sampled:	Oct 14, 1994
3 Hutton Centre, Suite 300	UTM	Received:	Oct 14, 1994
Santa Ana, CA 92707	Sample Descript: Water, MW-07	Analyzed:	Oct 18, 1994
Attention: Brad Eismen	Lab Number: DJ03285	Reported:	Oct 19, 1994

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)
Bromodichloromethane	5.0	N.D.
Bromoform	**5.0**	**6.1**
Bromomethane	10	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	10	N.D.
Chloroethane	25	N.D.
2-Chloroethylvinyl ether	25	N.D.
Chloroform	5.0	N.D.
Chloromethane	10	N.D.
Dibromochloromethane	**5.0**	**12**
1,2-Dichlorobenzene	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	**5.0**	**56**
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	50	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	**5.0**	**300**
1,1,1-Trichloroethane	**5.0**	**7.4**
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	**5.0**	**12**
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	10	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution. Detection limits for this sample have been raised by a factor of 10.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	101%

UTM 005218

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Del Mar Analytical

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Brad Eismen

Method Blank

Analyzed: Oct 18, 1994
Reported: Oct 19, 1994
Matrix: Water

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)
Bromodichloromethane	0.50	N.D.
Bromoform	0.50	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	1.0	N.D.
Chloroethane	2.5	N.D.
2-Chloroethylvinyl ether	2.5	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	1.0	N.D.
1,3-Dichlorobenzene	1.0	N.D.
1,4-Dichlorobenzene	1.0	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	0.50	N.D.
Vinyl chloride	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	107%

UTM 005219

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QC DATA REPORT

EPA METHOD: **601/602**
Matrix: Water

DATE: 10/18/94

SAMPLE # DJ03279

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
1,1-Dichloroethene	0	10	8.9	8.5	89%	85%	4.6%	87%
1,1,1-Trichloroethane	0.27	10	9.4	9.2	91%	89%	2.2%	90%
Trichloroethene	0.082	10	9.5	9.0	94%	89%	5.4%	92%
Chlorobenzene	0	10	11	9.9	110%	99%	10.5%	105%
Benzene	0	10	11	9.9	110%	99%	10.5%	105%
Toluene	0	10	10	10	100%	100%	0.0%	100%

Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS; ((MS-R1) / SP) X 100

PR2..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100

RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

Del Mar Analytical

CRWQCB - L.A. REGION
WELL INVESTIGATION PROGRAM
QA/QC REPORT

PREPARED FOR HARDING LAWSON ASSOCIATES
PROJECT: 28739-05 UTM
SAMPLED: 10/14/94

HLA
Tustin, California 92680
714/259-7992 — 213/617-7232
Telecopy: 714/259-1378

CHAIN OF CUSTODY FORM

Lab: Del Mar

Job Number: 28739-05
Name/Location: UTM
Project Manager: B. EISMAN

Samplers: R. Rogers, J. Fausto
Recorder: R. Rogers (Signature Required)

SOURCE CODE	MATRIX: Water	Sediment	Soil	Oil	#CONTAINERS & PRESERV.: Unpres.	H_2SO_4	HNO_3	HCl	SAMPLE NUMBER OR LAB NUMBER: Yr	Wk	Seq	DATE: Yr	Mo	Dy	Time	STATION DESCRIPTION/ NOTES	ANALYSIS REQUESTED: EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	Priority Pllnt. Metals	Benzene/Toluene/Xylene	Total Petrol. Hydrocarb.
	X							2				94	10	14	0935	MW-08	X						
	↓							↓				↓	↓	↓	0940	MW-05	↓						
															1020	MW-06							
															1110	MW-03							
															1220	MW-02							
															1310	MW-04							
	X							2				94	10	14	1315	MW-07	X						

LAB NUMBER: Yr	Wk	Seq	DEPTH IN FEET	COL MTD CD	QA CODE	MISCELLANEOUS
						Detection Limit must be 1 ug/l
						Procedure must meet WIP Requirements
						Intact / C001

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: (Signature) RR 1425 / 10/14/94		RECEIVED BY: (Signature) D Walen	DATE/TIME 10/14/94 1425
RELINQUISHED BY: (Signature)		RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)		RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)		RECEIVED BY: (Signature)	DATE/TIME
DISPATCHED BY: (Signature)	DATE/TIME	RECEIVED FOR LAB BY: (Signature)	DATE/TIME
METHOD OF SHIPMENT			

Laboratory Copy White — Project Office Copy Yellow — Field or Office Copy Pink

6532

UTM 005222

Del Mar Analytical

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968 1338

CASE NARRATIVE

CLIENT: HLA
PROJECT: 28739-05 UTM

DATE SAMPLED: 10/14/94
DATE RECEIVED: 10/14/94

SAMPLE DESCRIPTION	LABORATORY NUMBER	SAMPLE MATRIX	EPA ANALYSES
MW-08	DJ03289	WATER	EPA 8010
MW-05	DJ03280	WATER	EPA 8010
MW-06	DJ03281	WATER	EPA 8010
MW-03	DJ03282	WATER	EPA 8010
MW-02	DJ03283	WATER	EPA 8010
MW-04	DJ03284	WATER	EPA 8010
MW-07	DJ03285	WATER	EPA 8010

SAMPLE RECEIPT: Samples were received intact, on ice and with chain of custody documentation.

HOLDING TIMES: Holding times were met.

SAMPLE PREPARATION: EPA 8010 analyses were performed using 0.5 - 5.0 ml of sample per analysis.

INSTRUMENTATION: EPA 8010 analyses were performed on a HP 5890 Series II gas chromatograph. The primary column was a 105 m, 0.53 u, Rtx-502.2. The confirmation column was a 105 m, 0.53 u, Rtx-1.

PROBLEMS ENCOUNTERED: No problems were encountered during sample analysis

QA/QC CRITERIA: QA/QC criteria were within acceptance limits.

OBSERVATIONS: No significant observations were made.

DEL MAR ANALYTICAL

Mark Weiner

Mark Weiner
Laboratory Manager

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD

LOS ANGELES REGION

LABORATORY REPORT FORM

Laboratory Name: Del Mar Analytical

Address: 2852 Alton Avenue Irvine, CA 92714

Telephone: (714) 261-1022

Laboratory Certification (ELAP) No.: 1197 Expiration Date: May 31, 1996

Laboratory Director's Name: Gary Steube

Laboratory Director's Signature:

Client: Harding Lawson Associates

Project No.: 28739-05 UTM

Analytical Method: (Circle One)	EPA 502.1	EPA 503.1	EPA 502.2	EPA 524.1
				EPA 524.2
	EPA 601	EPA 602		EPA 624
	[EPA 8010]	EPA 8020	EPA 8021	EPA 8240
				EPA 8260
Other				
Date Sampled:	10/14/94			
Date Received:	10/14/94			
Date Reported:	10/19/94			
Sample Matrix:	water			
Extraction Method:	5030			
Extraction Material:	water			

Chain of Custody Received: [Yes] No

Sample Condition: intact, cool

-- Sample Headspace Description (%): no headspace

-- Sample Container Material: 40 ml voa vials

(RWQCB LabForm10B;Ves11/92)

Analytical Test Result

Reporting Unit (Circle One): µg/kg **µg/l**

	DATE ANALYZED	10/18/94	10/18/94	10/18/94	10/18/94
	DATE EXTRACTED	10/18/94	10/18/94	10/18/94	10/18/94
	DILUTION FACTOR	1	1	2.5	2.5
	LAB SAMPLE I.D.	BLANK	DJ03279	DJ03280	DJ03281
	CLIENT SAMPLE I.D.	N/A	MW-08	MW-05	MW-06
COMPOUND	MDL	MB			
Bromobenzene		NA	NA	NA	NA
Bromodichloromethane	0.50	ND	ND	ND	ND
Bromoform	0.50	ND	ND	ND	ND
Bromomethane	0.50	ND	ND	ND	ND
Carbon tetrachloride	0.50	ND	ND	ND	ND
Chloroethane	1.0	ND	ND	ND	ND
Chloroform	0.50	ND	**0.95**	ND	ND
1-Chlorohexane		NA	NA	NA	NA
Chloromethane	0.50	ND	ND	ND	ND
Dibromochloromethane	0.50	ND	ND	ND	ND
Dibromomethane		NA	NA	NA	NA
Dichlorodifluoromethane		NA	NA	NA	NA
1,1-Dichloroethane (1,1-DCA)	0.50	ND	ND	**14**	**4.9**
1,2-Dichloroethane (1,2-DCA)	0.50	ND	ND	ND	ND
1,1-Dichloroethylene (1,1-DCE)	0.50	ND	ND	**69**	**16**
trans-1,2-Dichloroethylene	0.50	ND	ND	ND	ND
Dichloromethane	2.5	**7.0**	**8.1**	**12**	**13**
1,2-Dichloropropane	0.50	ND	ND	ND	ND
cis-1,3-Dichloropropylene	0.50	ND	ND	ND	ND
trans-1,3-Dichloropropylene	0.50	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	0.50	ND	ND	ND	ND
Tetrachloroethylene (PCE)	0.50	ND	ND	**78**	**86**
1,1,1-Trichloroethane (111-TCA)	0.50	ND	ND	**34**	**19**
1,1,2-Trichloroethane (112-TCA)	0.50	ND	ND	ND	ND
Trichloroethylene (TCE)	0.50	ND	ND	**13**	**15**
1,2,3-Trichloropropane		NA	NA	NA	NA
Trichlorofluoromethane	0.50	ND	ND	ND	ND
Vinyl chloride	1.0	ND	ND	ND	ND
Benzene		NA	NA	NA	NA
Chlorobenzene	0.50	ND	ND	ND	ND
1,2-Dichlorobenzene	0.50	ND	ND	ND	ND
1,3-Dichlorobenzene	0.50	ND	ND	ND	ND
1,4-Dichlorobenzene	0.50	ND	ND	ND	ND
Ethyl benzene		NA	NA	NA	NA
Toluene		NA	NA	NA	NA

ANALYTICAL TEST RESULT (cont'd)

COMPOUND	MDL	MB			
m,p-Xylenes		NA	NA	NA	NA
o-Xylene		NA	NA	NA	NA
Acetone		NA	NA	NA	NA
Acrolein		NA	NA	NA	NA
Acrylonitrile		NA	NA	NA	NA
Bromochloromethane		NA	NA	NA	NA
n-Butylbenzene		NA	NA	NA	NA
sec-Butylbenzene		NA	NA	NA	NA
tert-Butylbenzene		NA	NA	NA	NA
2-Chloroethylvinyl ether	1.0	ND	ND	ND	ND
2-Chlorotoluene		NA	NA	NA	NA
4-Chlorotoluene		NA	NA	NA	NA
Dichlorodifluoromethane		NA	NA	NA	NA
cis-1,2-Dichloroethylene	0.50	ND	ND	ND	ND
1,3-Dichloropropane		NA	NA	NA	NA
2,2-Dichloropropane		NA	NA	NA	NA
1,1-Dichloropropylene		NA	NA	NA	NA
Ethylene dibromide (EDB)		NA	NA	NA	NA
Hexachlorobutadiene		NA	NA	NA	NA
Isopropylbenzene		NA	NA	NA	NA
p-Isopropyltoluene		NA	NA	NA	NA
Methyl Ethyl Ketone		NA	NA	NA	NA
Methyl Isobutyl Ketone		NA	NA	NA	NA
Naphthalene		NA	NA	NA	NA
n-Propylbenzene		NA	NA	NA	NA
Styrene		NA	NA	NA	NA
1,2,3-Trichlorobenzene		NA	NA	NA	NA
1,2,4-Trichlorobenzene		NA	NA	NA	NA
1,2,4-Trimethylbenzene		NA	NA	NA	NA
1,3,5-Trimethylbenzene		NA	NA	NA	NA
1,1,2-Trichloro-trifluoroethane		NA	NA	NA	NA

Surrogate	SPK CONC	ACP% %RC	MB	%RC	%RC	%RC
4-Bromofluorobenzene	10	80-120	107	107	95	97

a = Report Any Value > or = MDL; b = Listed Compounds Are Ordered by Laboratory Analytical Methods: Halogenated, Aromatic, then Remaining Compounds Identified by GC/MS.
SPK CONC = Spiking Concentration (< or = 5 x PQL); ACP % = Acceptable Range of Percent; %RC = % Recovery
MDL = Method Detection Limit; MB = Method Blank; ND = Not Detected (Below MDL); NA = Not Analyzed

Analytical Test Result

Reporting Unit (Circle One): µg/kg **µg/l**

DATE ANALYZED		10/18/94	10/18/94	10/18/94	10/18/94
DATE EXTRACTED		10/18/94	10/18/94	10/18/94	10/18/94
DILUTION FACTOR		1	5	10	10
LAB SAMPLE I.D.		BLANK	DJ03282	DJ03283	DJ03284
CLIENT SAMPLE I.D.		N/A	MW-03	MW-02	MW-04
COMPOUND	MDL	MB			
Bromobenzene		NA	NA	NA	NA
Bromodichloromethane	0.50	ND	ND	ND	ND
Bromoform	0.50	ND	**2.8**	**6.1**	ND
Bromomethane	0.50	ND	ND	ND	ND
Carbon tetrachloride	0.50	ND	ND	ND	ND
Chloroethane	1.0	ND	ND	ND	ND
Chloroform	0.50	ND	ND	ND	ND
1-Chlorohexane		NA	NA	NA	NA
Chloromethane	0.50	ND	ND	ND	ND
Dibromochloromethane	0.50	ND	**5.3**	**13**	ND
Dibromomethane		NA	NA	NA	NA
Dichlorodifluoromethane		NA	NA	NA	NA
1,1-Dichloroethane (1,1-DCA)	0.50	ND	ND	**18**	ND
1,2-Dichloroethane (1,2-DCA)	0.50	ND	ND	ND	ND
1,1-Dichloroethylene (1,1-DCE)	0.50	ND	**4.4**	**25**	**53**
trans-1,2-Dichloroethylene	0.50	ND	ND	ND	ND
Dichloromethane	2.5	**7.0**	**22**	**48**	**40**
1,2-Dichloropropane	0.50	ND	ND	ND	ND
cis-1,3-Dichloropropylene	0.50	ND	ND	ND	ND
trans-1,3-Dichloropropylene	0.50	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	0.50	ND	ND	ND	ND
Tetrachloroethylene (PCE)	0.50	ND	**160**	**360**	**310**
1,1,1-Trichloroethane (111-TCA)	0.50	ND	ND	**9.5**	**6.1**
1,1,2-Trichloroethane (112-TCA)	0.50	ND	ND	ND	ND
Trichloroethylene (TCE)	0.50	ND	**33**	**30**	**9.4**
1,2,3-Trichloropropane		NA	NA	NA	NA
Trichlorofluoromethane	0.50	ND	**13**	ND	ND
Vinyl chloride	1.0	ND	ND	ND	ND
Benzene		NA	NA	NA	NA
Chlorobenzene	0.50	ND	ND	ND	ND
1,2-Dichlorobenzene	0.50	ND	ND	ND	ND
1,3-Dichlorobenzene	0.50	ND	ND	ND	ND
1,4-Dichlorobenzene	0.50	ND	ND	ND	ND
Ethyl benzene		NA	NA	NA	NA
Toluene		NA	NA	NA	NA

ANALYTICAL TEST RESULT (cont'd)

COMPOUND	MDL	MB			
m,p-Xylenes		NA	NA	NA	NA
o-Xylene		NA	NA	NA	NA
Acetone		NA	NA	NA	NA
Acrolein		NA	NA	NA	NA
Acrylonitrile		NA	NA	NA	NA
Bromochloromethane		NA	NA	NA	NA
n-Butylbenzene		NA	NA	NA	NA
sec-Butylbenzene		NA	NA	NA	NA
tert-Butylbenzene		NA	NA	NA	NA
2-Chloroethylvinyl ether	1.0	ND	ND	ND	ND
2-Chlorotoluene		NA	NA	NA	NA
4-Chlorotoluene		NA	NA	NA	NA
Dichlorodifluoromethane		NA	NA	NA	NA
cis-1,2-Dichloroethylene	0.50	ND	6.7	9.5	ND
1,3-Dichloropropane		NA	NA	NA	NA
2,2-Dichloropropane		NA	NA	NA	NA
1,1-Dichloropropylene		NA	NA	NA	NA
Ethylene dibromide (EDB)		NA	NA	NA	NA
Hexachlorobutadiene		NA	NA	NA	NA
Isopropylbenzene		NA	NA	NA	NA
p-Isopropyltoluene		NA	NA	NA	NA
Methyl Ethyl Ketone		NA	NA	NA	NA
Methyl Isobutyl Ketone		NA	NA	NA	NA
Naphthalene		NA	NA	NA	NA
n-Propylbenzene		NA	NA	NA	NA
Styrene		NA	NA	NA	NA
1,2,3-Trichlorobenzene		NA	NA	NA	NA
1,2,4-Trichlorobenzene		NA	NA	NA	NA
1,2,4-Trimethylbenzene		NA	NA	NA	NA
1,3,5-Trimethylbenzene		NA	NA	NA	NA
1,1,2-Trichloro-trifluoroethane		NA	NA	NA	NA

Surrogate	SPK CONC	ACP% %RC	MB	%RC	%RC	%RC
4-Bromofluorobenzene	10	80-120	107	94	105	102

a = Report Any Value > or = MDL; b = Listed Compounds Are Ordered by Laboratory Analytical Methods: Halogenated, Aromatic, then Remaining Compounds Identified by GC/MS.
SPK CONC = Spiking Concentration (< or = 5 x PQL); ACP % = Acceptable Range of Percent; %RC = % Recovery
MDL = Method Detection Limit; MB = Method Blank; ND = Not Detected (Below MDL); NA = Not Analyzed

Analytical Test Result

Reporting Unit (Circle One): µg/kg | µg/l

DATE ANALYZED		10/18/94	10/18/94		
DATE EXTRACTED		10/18/94	10/18/94		
DILUTION FACTOR		1	10		
LAB SAMPLE I.D.		BLANK	DJ03285		
CLIENT SAMPLE I.D.		N/A	MW-07		
COMPOUND	MDL	MB			
Bromobenzene		NA	NA		
Bromodichloromethane	0.50	ND	ND		
Bromoform	0.50	ND	**6.1**		
Bromomethane	0.50	ND	ND		
Carbon tetrachloride	0.50	ND	ND		
Chloroethane	1.0	ND	ND		
Chloroform	0.50	ND	ND		
1-Chlorohexane		NA	NA		
Chloromethane	0.50	ND	ND		
Dibromochloromethane	0.50	ND	**12**		
Dibromomethane		NA	NA		
Dichlorodifluoromethane		NA	NA		
1,1-Dichloroethane (1,1-DCA)	0.50	ND	ND		
1,2-Dichloroethane (1,2-DCA)	0.50	ND	ND		
1,1-Dichloroethylene (1,1-DCE)	0.50	ND	**56**		
trans-1,2-Dichloroethylene	0.50	ND	ND		
Dichloromethane	2.5	**7.0**	**48**		
1,2-Dichloropropane	0.50	ND	ND		
cis-1,3-Dichloropropylene	0.50	ND	ND		
trans-1,3-Dichloropropylene	0.50	ND	ND		
1,1,1,2-Tetrachloroethane		NA	NA		
1,1,2,2-Tetrachloroethane	0.50	ND	ND		
Tetrachloroethylene (PCE)	0.50	ND	**300**		
1,1,1-Trichloroethane (111-TCA)	0.50	ND	**7.4**		
1,1,2-Trichloroethane (112-TCA)	0.50	ND	ND		
Trichloroethylene (TCE)	0.50	ND	**12**		
1,2,3-Trichloropropane		NA	NA		
Trichlorofluoromethane	0.50	ND	ND		
Vinyl chloride	1.0	ND	ND		
Benzene		NA	NA		
Chlorobenzene	0.50	ND	ND		
1,2-Dichlorobenzene	0.50	ND	ND		
1,3-Dichlorobenzene	0.50	ND	ND		
1,4-Dichlorobenzene	0.50	ND	ND		
Ethyl benzene		NA	NA		
Toluene		NA	NA		

ANALYTICAL TEST RESULT (cont'd)

COMPOUND	MDL	MB			
m,p-Xylenes		NA	NA		
o-Xylene		NA	NA		
Acetone		NA	NA		
Acrolein		NA	NA		
Acrylonitrile		NA	NA		
Bromochloromethane		NA	NA		
n-Butylbenzene		NA	NA		
sec-Butylbenzene		NA	NA		
tert-Butylbenzene		NA	NA		
2-Chloroethylvinyl ether	1.0	ND	ND		
2-Chlorotoluene		NA	NA		
4-Chlorotoluene		NA	NA		
Dichlorodifluoromethane		NA	NA		
cis-1,2-Dichloroethylene	0.50	ND	ND		
1,3-Dichloropropane		NA	NA		
2,2-Dichloropropane		NA	NA		
1,1-Dichloropropylene		NA	NA		
Ethylene dibromide (EDB)		NA	NA		
Hexachlorobutadiene		NA	NA		
Isopropylbenzene		NA	NA		
p-Isopropyltoluene		NA	NA		
Methyl Ethyl Ketone		NA	NA		
Methyl Isobutyl Ketone		NA	NA		
Naphthalene		NA	NA		
n-Propylbenzene		NA	NA		
Styrene		NA	NA		
1,2,3-Trichlorobenzene		NA	NA		
1,2,4-Trichlorobenzene		NA	NA		
1,2,4-Trimethylbenzene		NA	NA		
1,3,5-Trimethylbenzene		NA	NA		
1,1,2-Trichloro-trifluoroethane		NA	NA		

Surrogate	SPK CONC	ACP% %RC	MB	%RC	%RC	%RC
4-Bromofluorobenzene	10	80-120	107	101		

a = Report Any Value > or = MDL; b = Listed Compounds Are Ordered by Laboratory Analytical Methods: Halogenated, Aromatic, then Remaining Compounds Identified by GC/MS.
SPK CONC = Spiking Concentration (< or = 5 x PQL); ACP % = Acceptable Range of Percent; %RC = % Recovery
MDL = Method Detection Limit; MB = Method Blank; ND = Not Detected (Below MDL); NA = Not Analyzed

QA/QC REPORT

Reporting Unit (Circle One): µg/kg **µg/l**

I. Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

DATE PERFORMED: 10/18/94

BATCH #: 101894_10_1

LAB SAMPLE I. D.: DJ03279

ANALYTE	SPK CONC	MS	% MS	MSD	% MSD	RPD	ACP %MS	ACP RPD
1,1-Dichloroethene	10	8.9	89%	8.5	85%	4.6%	80-120	20%
1,1,1-Trichloroethane	10	9.2	92%	8.9	89%	3.3%	80-120	20%
Trichloroethene	10	9.4	94%	8.9	89%	5.5%	80-120	20%
Chlorobenzene	10	11	110%	9.9	99%	11%	80-120	20%
Benzene	10	11	110%	9.9	99%	11%	80-120	20%
Toluene	10	10	100%	10	100%	0.0%	80-120	20%

II. Laboratory Quality Control Check Sample

DATE PERFORMED: 10/18/94

BATCH #: N/A

LAB SAMPLE I. D.: LCS

ANALYTE	SPK CONC	RESULT	%RECOVERY	ACP %
1,1-Dichloroethene	10	9.0	90%	80-120
1,1,1-Trichloroethane	10	9.1	91%	80-120
Trichloroethene	10	10	100%	80-120
Chlorobenzene	10	10	100%	80-120
Benzene	10	9.9	99%	80-120
Toluene	10	10	100%	80-120

ANALYST: AB/DM DATE: 12/5/94

QA/QC REPORT

III. **Calibration Standard**

MOST RECENT INITIAL CALIBRATION DATE: 10/10/19

SUPPLY SOURCE: Supelco, Inc.

DAILY CALIBRATION DATE: 10/18/94

COMPOUND [c]	INITIAL RF_{ave}	%RSD[d]	DAILY RF	%DIFF w/RF_{ave}
Bromobenzene				
Bromochloromethane				
Bromodichloromethane	1.1	5.6	1.1	3.1
Bromoform	0.46	8.3	0.47	4.0
Bromomethane	0.29	8.2	0.27	5.2
Carbon tetrachloride	1.7	6.1	1.6	4.0
Chloroethane	0.85	9.6	0.70	18
Chloroform*	1.8	7.8	1.8	1.3
1-Chlorohexane				
Chloromethane	0.94	10	0.92	2.1
Dibromochloromethane	0.81	4.9	0.83	2.3
Dibromomethane				
Dichloromethane (Methylene chloride)	1.9	24	2.5	36
1,1-Dichloroethane (1,1-DCA)	1.3	9.9	1.2	5.5
1,2-Dichloroethane (1,2-DCA)	1.3	3.4	1.2	4.9
1,1-Dichloroethylene* (1,1-DCE)	1.0	15	1.1	6.1
trans-1,2-Dichloroethylene	1.2	10	1.1	8.2
1,2-Dichloropropylene*	1.2	5.1	1.1	9.7
cis-1,3-Dichloropropylene	1.1	7.8	1.1	3.3
trans-1,2-Dichloropropylene	1.0	7.4	1.0	1.5
1,1,1,2-Tetrachloroethane				
1,1,2,2-Tetrachloroethane	1.0	7.2	0.45	56
Tetrachloroethylene (PCE)	1.7	8.9	1.6	3.3

III. Calibration Standard (cont'd)

COMPOUND	[illegible]	[illegible]	[illegible]	[illegible]
1,1,1-Trichloroethane (1,1,1-TCA)	1.5	7.2	1.4	3.0
1,1,2-Trichloroethane (1,1,2-TCA)	1.4	7.1	1.3	3.1
Trichloroethylene (TCE)	1.6	5.5	1.6	0.89
1,2,3-Trichloropropane				
Trichlorofluoromethane	0.94	9.0	0.77	19
Vinyl chloride * (VC)	0.92	11	0.75	18
Benzene	1.4	7.9	1.3	1.9
Chlorobenzene	0.58	6.4	0.58	0.79
1,2-Dichlorobenzene	0.91	3.1	0.92	0.74
1,3-Dichlorobenzene	0.86	3.7	0.83	3.4
1,4-Dichlorobenzene	0.77	5.7	0.79	2.0
Ethyl benzene *	1.1	5.6	1.1	6.0
Toluene *	1.2	3.7	1.2	3.9
m,p-Xylenes	1.2	9.9	1.3	5.0
o-Xylene	1.1	4.1	1.1	0.50
Acetone				
Acrolein				
Acrylonitrile				
n-Butylbenzene				
sec-Butylbenzene				
tert-Butylbenzene				
2-Chloroethylvinyl ether	0.31	16	0.30	1.8
2-Chlorotoluene				
4-Chlorotoluene				
Dichloro-difluoromethane				
cis-1,2-Dichloroethylene	1.5	8.5	1.4	6.0
trans-1,2-Dichloroethylene				
1,3-Dichloropropane				
2,2-Dichloropropane				
1,1-Dichloropropylene				
Ethylene dibromide (EDB)				
Hexachlorobutadiene				
Isopropylbenzene				

III. Calibration Standard (cont'd)

COMPOUND c	INITIAL RF ave	%RSD d	DAILY RF	%DIFF e w/RF ave
p-Isopropyltoluene				
Methyl Ethyl Ketone				
Methyl Isobutyl Ketone				
Naphthalene				
n-Propylbenzene				
Styrene				
1,2,3-Trichlorobenzene				
1,2,4-Trichlorobenzene				
1,2,4-Trimethylbenzene				
1,3,5-Trimethylbenzene				
1,1,2-Trichloro-trifluoroethane				

SPK CONC = Spiking Concentration (< or = 5 X PQL); PQL = Practical Quantitation Limit

%MS = Percent Recovery of MS; %MSD = Percent Recovery of MSD; RPD = Relative Percent Difference;

ACP = Acceptable Range of Percent; INITIAL RF ave = Average Response Factor From Initial Calibration;

DAILY RF = Response Factor From Daily Calibration; %RSD = Percent Relative Standard Deviation;

%DIFF = Percent Difference; c = Listed Compounds are Ordered by Laboratory Analytical Methods: Halogenated, Aromatic, then Remaining Compounds Identified by GC/MS.

d = Value < or = 10% for GC EPA Methods 500 & 600 Series, < or = 20% for GC EPA Methods 8000 Series, < or = 30% for GC/MS Meth

e = Value < or = 20% for GC EPA Methods 500 & 600 Series, < or = 15% for GC EPA Methods 8000 Series, < or = 25% for GC/MS Meth

* = Calibration Check Compounds (CCC) for GC/MS Method;

= System Performance Check Compounds (SPCC) for GC/MS Method

REQUIREMENT

1. Indicate any modification made to the EPA Methods (e.g., testing constituent list, columns).
2. Provide details of corrective actions in any out of control events (e.g., re-calibration, blank contamination, etc.).
3. Co-elution must be resolved prior to reporting, except for xylenes.
4. Second column or MS confirmation must be performed for all compounds detected.
5. Analytical results are not to be blank adjusted.
6. Chemical standards for QC check samples and calibration should be obtained from different supply sources.
7. Any change of column, detector, chemical standard, etc. shall result in a new initial calibration.
8. Lowest concentration injected for inital calibration should not exceed three times of laboratory method detection limits.
9. Re-calibration is required whenever the RF from daily calibration is not within the range specified in item "e" above from initial calibration RFave.
10. Tentative identified compounds and all unidentified peaks must be reported.
11. Chromatogram for calibration standards, quality control check samples, and selected environmental samples must be submitted upon request.

Sample File : H:\DATA\GC10\P10.smp
Created by : on : 1/23/91 8:42 AM
Edited by : DM on : 10/10/94 3:17 PM
Number Of Times Edited : 170

ample Description :

Default Injection Volume : 1.0000 ul
Quantitation Units : ng
Void Time : 0.000 min
Correct Amounts During Calibration : YES
Reject Outliers During Calibration : NO
An Internal Standard Calibration Will Be Used
Unknown Peaks Will Use The Response Factor Of The Nearest Component

omponent Information :

BENZENE

Component Type : Single Peak Component
Retention Time : 19.850 min Search Window: 0.80 s, 0.80 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 4-BFB
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	119214.50	18041.04	0.30092	0.20000	1
2	20.0000	236509.50	34864.82	0.57337	0.40000	1
3	50.0000	542499.00	81960.63	1.29101	1.00000	1
4	100.0000	1082987.50	165423.65	2.61815	2.00000	1
5	150.0000	1615736.00	245976.16	3.74610	3.00000	1

Average Calibration Factor = 1.3574 (%RSD = 7.90)

FB

Component Type : Single Peak Component
Retention Time : 20.410 min Search Window: 0.70 s, 0.70 %
Reference Component:
Find Largest Peak in Window
Internal Standard : 4-BFB
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	50.0000	362803.00	57689.64	0.91577	1.00000	1
2	50.0000	370943.00	58286.69	0.89927	1.00000	1
3	50.0000	372224.00	57709.62	0.88580	1.00000	1
4	50.0000	374721.50	59616.17	0.90590	1.00000	1
5	50.0000	373847.50	58859.17	0.86677	1.00000	1

Average Calibration Factor = 0.8947 (%RSD = 2.13)

TOLUENE

Component Type : Single Peak Component
Retention Time : 24.750 min Search Window: 0.60 s, 0.60 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : 4-BFB
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates

UTM 005235

1	10.0000	95969.00	17440.53	0.24224	0.20000	1
2	20.0000	192318.00	34242.24	0.46623	0.40000	1
3	50.0000	466734.50	84003.91	1.11071	1.00000	1
4	100.0000	979187.00	176563.70	2.36721	2.00000	1
5	150.0000	1449946.00	261925.06	3.36171	3.00000	1

Average Calibration Factor = 1.1583 (%RSD = 3.66)

CHLOROBENZENE

Component Type : Single Peak Component
Retention Time : 28.420 min Search Window: 0.30 s, 0.20 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : 4-BFB
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	100616.00	17991.09	0.25397	0.20000	1
2	20.0000	196463.00	36944.03	0.47628	0.40000	1
3	50.0000	485238.93	91217.16	1.15475	1.00000	1
4	100.0000	1038705.60	198897.78	2.51109	2.00000	1
5	150.0000	1583830.00	298208.94	3.67212	3.00000	1

Average Calibration Factor = 1.2190 (%RSD = 3.86)

ETHYLBENZENE

Component Type : Single Peak Component
Retention Time : 28.540 min Search Window: 0.20 s, 0.20 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : 4-BFB
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	88588.00	17821.40	0.22361	0.20000	1
2	20.0000	180711.62	34672.51	0.43810	0.40000	1
3	50.0000	425699.13	79667.43	1.01306	1.00000	1
4	100.0000	889776.80	178573.39	2.15106	2.00000	1
5	150.0000	1263141.40	244280.84	2.92860	3.00000	1

Average Calibration Factor = 1.0556 (%RSD = 5.60)

M,P-XYLENES

Component Type : Single Peak Component
Retention Time : 28.730 min Search Window: 0.50 s, 0.30 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : 4-BFB
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	20.0000	205268.00	39318.67	0.51813	0.40000	1
2	40.0000	417613.38	79505.10	1.01241	0.80000	1
3	100.0000	865908.31	145981.65	2.06064	2.00000	1
4	200.0000	2226768.60	426061.49	5.38326	4.00000	1
5	300.0000	3333339.10	412279.22	7.72837	6.00000	1

Average Calibration Factor = 1.2450 (%RSD = 9.92)

O-XYLENE

Component Type : Single Peak Component
Retention Time : 29.820 min Search Window: 0.20 s, 0.20 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : 4-BFB

Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	92891.50	17513.58	0.23447	0.20000	1
2	20.0000	179404.00	33848.09	0.43493	0.40000	1
3	50.0000	447861.50	63083.60	1.06580	1.00000	1
4	100.0000	927278.00	177098.66	2.24172	2.00000	1
5	150.0000	1377130.00	187390.91	3.19289	3.00000	1

Average Calibration Factor = 1.1021 (%RSD = 4.12)

STYRENE

Component Type : Single Peak Component
Retention Time : 29.950 min Search Window: 0.20 s, 0.20 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : 4-BFB
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	116646.00	20406.22	0.28656	0.20000	1
2	20.0000	235477.50	43983.36	0.56923	0.40000	1
3	50.0000	595803.00	113087.15	1.45661	1.00000	1
4	100.0000	1195420.00	234106.08	2.72715	2.00000	1
5	150.0000	1788413.00	362461.65	3.79358	3.00000	1

Average Calibration Factor = 1.4289 (%RSD = 2.33)

4-BFB

Component Type : Single Peak Component
Retention Time : 31.320 min Search Window: 0.50 s, 0.50 %
Reference Component:
Find Largest Peak in Window
Internal Standard :
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	50.0000	396171.00	74550.54	1.00000	1.00000	1
2	50.0000	412493.00	75358.56	1.00000	1.00000	1
3	50.0000	420213.00	65327.03	1.00000	1.00000	1
4	50.0000	413646.50	81574.48	1.00000	1.00000	1
5	50.0000	431312.00	69685.76	1.00000	1.00000	1

Average Calibration Factor = 1.0000 (%RSD = 0.00)

1,3-DCB

Component Type : Single Peak Component
Retention Time : 34.120 min Search Window: 0.30 s, 0.40 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : 4-BFB
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	86280.97	14321.24	0.21779	0.20000	1
2	20.0000	184416.16	31179.37	0.44708	0.40000	1
3	50.0000	475553.44	71750.51	1.13170	1.00000	1
4	100.0000	987614.39	191637.91	2.38758	2.00000	1
5	150.0000	1412565.23	231965.88	3.27504	3.00000	1

Average Calibration Factor = 1.1248 (%RSD = 3.78)

1,4-DCB

Component Type : Single Peak Component
Retention Time : 34.380 min Search Window: 0.70 s, 0.30 %

Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : 4-BFB
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	59342.03	9673.53	0.14979	0.20000	1
2	20.0000	113130.84	21055.15	0.27426	0.40000	1
3	50.0000	321117.06	50790.52	0.76418	1.00000	1
4	100.0000	696498.11	137900.25	1.68380	2.00000	1
5	150.0000	974604.27	163672.69	2.25963	3.00000	1

Average Calibration Factor = 0.7588 (%RSD = 7.34)

1,2-DCB
Component Type : Single Peak Component
Retention Time : 35.320 min Search Window: 0.40 s, 0.40 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : 4-BFB
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	51755.00	10853.39	0.13064	0.20000	1
2	20.0000	138175.00	26122.58	0.33498	0.40000	1
3	50.0000	365243.00	61115.66	0.86919	1.00000	1
4	100.0000	787589.50	152349.31	1.90402	2.00000	1
5	150.0000	1127422.00	194108.08	2.61394	3.00000	1

Average Calibration Factor = 0.8366 (%RSD = 13.26)

Sample File : H:\DATA\GC10\E10.smp
Created by : on : 1/23/91 8:42 AM
Edited by : DM on : 10/11/94 3:11 PM
Number Of Times Edited : 384

ample Description :

Default Injection Volume : 1.0000 ul
Quantitation Units : ng
Void Time : 0.000 min
Correct Amounts During Calibration : YES
Reject Outliers During Calibration : NO
An Internal Standard Calibration Will Be Used
Unknown Peaks Will Be Quantitated Using A Response Factor of 1000000.000000

omponent Information :

DICHLODIFLUOMETHANE

Component Type : Single Peak Component
Retention Time : 5.223 min Search Window: 2.60 s, 2.60 %
Reference Component:
Find Largest Peak in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	52537.00	7053.06	0.09345	0.20000	0
2	20.0000	90968.00	12839.71	0.15735	0.40000	0
3	50.0000	237871.00	35684.90	0.50769	1.00000	0
4	100.0000	499195.00	72398.39	0.93558	2.00000	0
5	150.0000	715718.50	103380.58	1.21960	3.00000	0

Average Calibration Factor = 0.4485 (%RSD = 10.59)

CHLOROMETHANE

Component Type : Single Peak Component
Retention Time : 5.881 min Search Window: 2.30 s, 2.30 %
Reference Component:
Find Largest Peak in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	119686.39	13687.32	0.21289	0.20000	0
2	20.0000	208303.25	24289.45	0.36032	0.40000	0
3	50.0000	479526.20	61983.71	1.02345	1.00000	0
4	100.0000	965825.16	117214.35	1.81012	2.00000	0
5	150.0000	1452813.66	184658.20	2.47563	3.00000	0

Average Calibration Factor = 0.9438 (%RSD = 10.37)

VINYL CHLORIDE

Component Type : Single Peak Component
Retention Time : 6.191 min Search Window: 2.20 s, 2.20 %
Reference Component:
Find Largest Peak in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amoun	Area	Height	ISTD Resp.	ISTD Amt.	# Replicat

UTM 005239

1	10.0000	113029.61	12144.94	0.20105	0.20000	0
2	20.0000	198391.75	21941.02	0.34317	0.40000	0
3	50.0000	490032.80	61456.63	1.04588	1.00000	0
4	100.0000	937155.34	110788.08	1.75639	2.00000	0
5	150.0000	1422311.34	173289.25	2.42366	3.00000	0

Average Calibration Factor = 0.9190 (%RSD = 11.05)

BROMOMETHANE

Component Type : Single Peak Component
Retention Time : 7.634 min Search Window: 2.00 s, 2.00 %
Reference Component:
Find Largest Peak in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	33713.00	4236.79	0.05997	0.20000	0
2	20.0000	59235.11	7442.91	0.10246	0.40000	0
3	50.0000	148597.01	18677.13	0.31715	1.00000	0
4	100.0000	301474.13	37465.80	0.56501	2.00000	0
5	150.0000	484575.49	58626.50	0.82573	3.00000	0

Average Calibration Factor = 0.2862 (%RSD = 8.16)

CHLOROETHANE

Component Type : Single Peak Component
Retention Time : 7.848 min Search Window: 2.00 s, 2.00 %
Reference Component:
Find Largest Peak in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	93979.00	9864.19	0.16716	0.20000	0
2	20.0000	174580.89	16957.53	0.30199	0.40000	0
3	50.0000	455594.99	42832.91	0.97237	1.00000	0
4	100.0000	942970.37	84278.38	1.76729	2.00000	0
5	150.0000	1429661.51	121341.47	2.43618	3.00000	0

Average Calibration Factor = 0.8518 (%RSD = 9.60)

TRICHLOROFLUOROMETH

Component Type : Single Peak Component
Retention Time : 8.873 min Search Window: 2.60 s, 2.60 %
Reference Component:
Find Largest Peak in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	108630.00	8992.69	0.19322	0.20000	0
2	20.0000	202770.00	15923.19	0.35075	0.40000	0
3	50.0000	497706.50	39189.35	1.06225	1.00000	0
4	100.0000	1013461.00	80617.23	1.89940	2.00000	0
5	150.0000	1487159.00	113012.85	2.53416	3.00000	0

Average Calibration Factor = 0.9399 (%RSD = 9.03)

FREON

Component Type : Single Peak Component
Retention Time : 10.460 min Search Window: 2.30 s, 2.30 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : BROMOCHLOROMETHAN

Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	21931.00	1143.66	0.03901	0.20000	0
2	20.0000	45975.00	2796.98	0.07953	0.40000	0
3	50.0000	117437.50	6783.09	0.25065	1.00000	0
4	100.0000	191469.00	10622.60	0.35885	2.00000	0
5	150.0000	434062.00	26461.86	0.73965	3.00000	0

Average Calibration Factor = 0.2141 (%RSD = 15.11)

1,1-DCE

Component Type : Single Peak Component
Retention Time : 11.069 min Search Window: 2.20 s, 2.20 %
Reference Component:
Find Largest Peak in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	141074.00	13574.83	0.25093	0.20000	0
2	20.0000	241977.00	23300.78	0.41857	0.40000	0
3	50.0000	503874.50	46141.43	1.07542	1.00000	0
4	100.0000	1012488.00	94727.78	1.89757	2.00000	0
5	150.0000	1495883.00	133781.20	2.54903	3.00000	0

Average Calibration Factor = 1.0350 (%RSD = 14.64)

MECL2

Component Type : Single Peak Component
Retention Time : 12.767 min Search Window: 2.30 s, 2.30 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	290654.00	31768.68	0.51699	0.20000	0
2	20.0000	400467.00	42193.21	0.69272	0.40000	0
3	50.0000	883247.00	97849.23	1.88511	1.00000	0
4	100.0000	1749093.50	188290.53	3.27810	2.00000	0
5	150.0000	2540731.00	261459.68	4.32948	3.00000	0

Average Calibration Factor = 1.8568 (%RSD = 23.55)

T-1,2-DCE

Component Type : Single Peak Component
Retention Time : 13.821 min Search Window: 1.90 s, 1.70 %
Reference Component:
Find Largest Peak in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	148531.00	19742.87	0.26419	0.20000	0
2	20.0000	278457.50	35876.51	0.48167	0.40000	0
3	50.0000	658998.00	87397.68	1.40650	1.00000	0
4	100.0000	1318548.50	178668.83	2.47118	2.00000	0
5	150.0000	1866943.00	248104.46	3.18132	3.00000	0

Average Calibration Factor = 1.2455 (%RSD = 10.44)

1,1-DCA

UTM 005241

Component Type : Single Peak Component
Retention Time : 15.179 min Search Window: 1.50 s, 1.50 %

Reference Component:
Find Largest Peak in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	156190.50	17665.79	0.27782	0.20000	0
2	20.0000	302241.00	32651.39	0.52281	0.40000	0
3	50.0000	691154.00	77147.12	1.47513	1.00000	0
4	100.0000	1403506.00	158810.64	2.63041	2.00000	0
5	150.0000	1974414.00	218476.41	3.36446	3.00000	0

Average Calibration Factor = 1.3216 (%RSD = 9.90)

CIS-1,2-DCE
Component Type : Single Peak Component
Retention Time : 17.034 min Search Window: 1.30 s, 1.30 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	181356.83	24125.12	0.32258	0.20000	0
2	20.0000	349596.33	46626.61	0.60472	0.40000	0
3	50.0000	743734.90	100278.61	1.58735	1.00000	0
4	100.0000	1513740.89	208671.11	2.83701	2.00000	0
5	150.0000	2301449.96	310812.23	3.92173	3.00000	0

Average Calibration Factor = 1.4876 (%RSD = 8.47)

CHLOROFORM
Component Type : Single Peak Component
Retention Time : 17.503 min Search Window: 1.20 s, 1.20 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	221888.17	28587.12	0.39468	0.20000	0
2	20.0000	433629.67	55671.11	0.75008	0.40000	0
3	50.0000	916284.10	119887.19	1.95562	1.00000	0
4	100.0000	1871469.33	244395.89	3.50745	2.00000	0
5	150.0000	2874020.00	366046.53	4.89741	3.00000	0

Average Calibration Factor = 1.8381 (%RSD = 7.83)

BROMOCHLOROMETHAN
Component Type : Single Peak Component
Retention Time : 17.955 min Search Window: 1.10 s, 1.10 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard :
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	50.0000	562203.41	76205.88	1.00000	1.00000	0
2	50.0000	578110.50	78368.87	1.00000	1.00000	0
3	50.0000	468538.50	64634.30	1.00000	1.00000	0
4	50.0000	533569.78	73453.47	1.00000	1.00000	0
5	50.0000	586845.04	77151.08	1.00000	1.00000	0

Average Calibration Factor = 1.0000 (%RSD = 0.00)

1,1,1-TCA

Component Type : Single Peak Component
Retention Time : 18.687 min Search Window: 1.00 s, 1.10 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	183447.09	19991.11	0.32630	0.20000	0
2	20.0000	341206.00	36978.93	0.59021	0.40000	0
3	50.0000	723856.00	78881.09	1.54492	1.00000	0
4	100.0000	1517405.00	166718.59	2.84387	2.00000	0
5	150.0000	2383681.50	261578.97	4.06186	3.00000	0

Average Calibration Factor = 1.4856 (%RSD = 7.24)

CARBON TETRACHLORIDE

Component Type : Single Peak Component
Retention Time : 19.409 min Search Window: 0.80 s, 0.80 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	207612.39	23587.43	0.36928	0.20000	0
2	20.0000	390719.02	44421.83	0.67586	0.40000	0
3	50.0000	811907.08	93351.03	1.73285	1.00000	0
4	100.0000	1791613.35	207612.32	3.35779	2.00000	0
5	150.0000	2741160.02	317740.83	4.67101	3.00000	0

Average Calibration Factor = 1.7010 (%RSD = 6.13)

1,2-DCA

Component Type : Single Peak Component
Retention Time : 19.742 min Search Window: 2.50 s, 0.80 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	149510.61	21081.71	0.26594	0.20000	0
2	20.0000	306419.48	42397.47	0.53004	0.40000	0
3	50.0000	615558.92	88755.18	1.31379	1.00000	0
4	100.0000	1410114.65	208316.81	2.64279	2.00000	0
5	150.0000	2152950.98	315821.54	3.66869	3.00000	0

Average Calibration Factor = 1.3026 (%RSD = 3.45)

TCE

Component Type : Single Peak Component
Retention Time : 21.462 min Search Window: 1.50 s, 0.80 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	189903.04	27298.26	0.33778	0.20000	0
2	20.0000	353036.74	50257.27	0.61067	0.40000	0
3	50.0000	770479.23	114467.01	1.69443	1.00000	0
4	100.0000	1577545.96	239461.85	2.95659	2.00000	0

5	150.0000	2725781.13	406296.54	4.64481	3.00000	0

Average Calibration Factor = 1.5773 (%RSD = 5.51)

1,2-DCP

Component Type : Single Peak Component
Retention Time : 21.895 min Search Window: 1.20 s, 0.80 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	135737.96	18946.26	0.24144	0.20000	0
2	20.0000	275447.26	37159.19	0.47646	0.40000	0
3	50.0000	614247.77	83843.93	1.31099	1.00000	0
4	100.0000	1239523.04	175281.45	2.32308	2.00000	0
5	150.0000	2049105.87	289349.51	3.49173	3.00000	0

Average Calibration Factor = 1.2070 (%RSD = 5.07)

BROMODICHLOROMETHAN

Component Type : Single Peak Component
Retention Time : 22.487 min Search Window: 1.10 s, 0.80 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	136110.00	18715.51	0.24210	0.20000	0
2	20.0000	250995.50	35606.61	0.43417	0.40000	0
3	50.0000	573799.00	82388.68	1.22466	1.00000	0
4	100.0000	1191703.60	173653.21	2.23345	2.00000	0
5	150.0000	1950535.17	291155.30	3.32377	3.00000	0

Average Calibration Factor = 1.1490 (%RSD = 5.55)

2-CVE

Component Type : Single Peak Component
Retention Time : 23.218 min Search Window: 0.70 s, 0.80 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	29014.00	3771.28	0.05161	0.20000	0
2	20.0000	64402.00	8366.01	0.11140	0.40000	0
3	50.0000	175249.00	24557.09	0.37403	1.00000	0
4	100.0000	363244.00	53249.70	0.68078	2.00000	0
5	150.0000	504650.50	77576.92	0.85994	3.00000	0

Average Calibration Factor = 0.3075 (%RSD = 15.62)

T-1,3-DCP

Component Type : Single Peak Component
Retention Time : 23.851 min Search Window: 0.90 s, 0.80 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	117068.00	16675.01	0.20823	0.20000	0
2	20.0000	214759.00	31038.07	0.37148	0.40000	0
3	50.0000	533691.50	81185.55	1.13906	1.00000	0
4	100.0000	1083715.00	174027.02	2.03107	2.00000	0
5	150.0000	1762455.00	288797.26	3.00327	3.00000	0

Average Calibration Factor = 1.0251 (%RSD = 7.43)

C1,3-DCP

Component Type : Single Peak Component
Retention Time : 25.086 min Search Window: 1.00 s, 0.70 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	128700.65	17228.83	0.22892	0.20000	0
2	20.0000	228796.96	32409.95	0.39577	0.40000	0
3	50.0000	572533.60	90414.63	1.22196	1.00000	0
4	100.0000	1177414.30	198364.45	2.20667	2.00000	0
5	150.0000	1889468.79	326477.17	3.21971	3.00000	0

Average Calibration Factor = 1.1065 (%RSD = 7.78)

1,1,2-TCA

Component Type : Single Peak Component
Retention Time : 25.494 min Search Window: 1.00 s, 0.80 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	161122.85	23504.22	0.28659	0.20000	0
2	20.0000	295171.04	42197.69	0.51058	0.40000	0
3	50.0000	712743.40	106207.98	1.52121	1.00000	0
4	100.0000	1436524.70	225628.73	2.69229	2.00000	0
5	150.0000	2322057.71	363431.41	3.95685	3.00000	0

Average Calibration Factor = 1.3791 (%RSD = 7.10)

TETRACHLOROETHENE

Component Type : Single Peak Component
Retention Time : 26.378 min Search Window: 1.00 s, 0.90 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	204660.77	31124.98	0.36403	0.20000	0
2	20.0000	363116.95	54474.12	0.62811	0.40000	0
3	50.0000	846539.20	133191.38	1.80677	1.00000	0
4	100.0000	1662250.52	267817.53	3.11534	2.00000	0
5	150.0000	2672074.89	434147.29	4.55329	3.00000	0

Average Calibration Factor = 1.6545 (%RSD = 8.85)

DIBROMOCHLOROMETHAN

Component Type : Single Peak Component
Retention Time : 26.821 min Search Window: 1.00 s, 0.80 %
Reference Component:
Find Peak Closest t, Expected RT in Window

Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	85882.23	12391.31	0.15276	0.20000	0
2	20.0000	186092.05	25965.51	0.32190	0.40000	0
3	50.0000	407782.80	59333.06	0.87033	1.00000	0
4	100.0000	882991.57	130055.33	1.65488	2.00000	0
5	150.0000	1403132.72	215350.57	2.39098	3.00000	0

Average Calibration Factor = 0.8127 (%RSD = 4.86)

DIBROMOETHANE
Component Type : Single Peak Component
Retention Time : 27.340 min Search Window: 0.80 s, 0.80 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	51049.00	6430.77	0.09080	0.20000	0
2	20.0000	111664.50	14701.33	0.19315	0.40000	0
3	50.0000	267953.00	35333.55	0.57189	1.00000	0
4	100.0000	608982.90	80915.34	1.14134	2.00000	0
5	150.0000	999413.89	146111.60	1.70303	3.00000	0

Average Calibration Factor = 0.5294 (%RSD = 10.69)

CHLOROBNZN
Component Type : Single Peak Component
Retention Time : 28.388 min Search Window: 0.80 s, 0.80 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	64468.00	9860.93	0.11467	0.20000	0
2	20.0000	127219.00	19208.84	0.22006	0.40000	0
3	50.0000	301913.00	46088.78	0.64437	1.00000	0
4	100.0000	600873.00	104014.02	1.12614	2.00000	0
5	150.0000	1003166.00	166379.08	1.70942	3.00000	0

Average Calibration Factor = 0.5801 (%RSD = 6.37)

BROMOFORM
Component Type : Single Peak Component
Retention Time : 30.702 min Search Window: 0.70 s, 0.50 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	43900.65	6098.04	0.07809	0.20000	0
2	20.0000	105251.93	14867.49	0.18206	0.40000	0
3	50.0000	224603.93	32462.56	0.47937	1.00000	0
4	100.0000	506030.77	75948.87	0.94839	2.00000	0
5	150.0000	845869.27	137118.39	1.44138	3.00000	0

Average Calibration Factor = 0.4559 (%RSD = 8.33)

1,1,2,2-TCA
Component Type : Single Peak Component

Retention Time : 31.019 min Search Window: 0.50 s, 0.40 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	102549.48	15749.92	0.18241	0.20000	0
2	20.0000	237503.97	34639.88	0.41083	0.40000	0
3	50.0000	520662.17	78737.63	1.11125	1.00000	0
4	100.0000	1052581.39	167654.93	1.97272	2.00000	0
5	150.0000	1740371.23	272637.11	2.96564	3.00000	0

Average Calibration Factor = 1.0051 (%RSD = 7.22)

4-BFB

Component Type : Single Peak Component
Retention Time : 31.280 min Search Window: 0.40 s, 0.50 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	50.0000	158908.00	22622.74	0.28265	1.00000	0
2	50.0000	157332.50	22589.11	0.27215	1.00000	0
3	50.0000	156379.00	22483.34	0.33376	1.00000	0
4	50.0000	157693.00	21372.64	0.29554	1.00000	0
5	50.0000	152690.50	21773.56	0.26019	1.00000	0

Average Calibration Factor = 0.2889 (%RSD = 9.79)

1,3-DCB

Component Type : Single Peak Component
Retention Time : 34.074 min Search Window: 0.40 s, 0.30 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	94775.67	13059.56	0.16858	0.20000	0
2	20.0000	193493.52	27378.44	0.33470	0.40000	0
3	50.0000	428414.63	59467.30	0.91436	1.00000	0
4	100.0000	925603.82	163154.62	1.73474	2.00000	0
5	150.0000	1492214.37	226340.50	2.54277	3.00000	0

Average Calibration Factor = 0.8618 (%RSD = 3.66)

1,4-DCB

Component Type : Single Peak Component
Retention Time : 34.328 min Search Window: 0.40 s, 0.40 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	92301.33	10553.37	0.16418	0.20000	0
2	20.0000	178367.48	22087.28	0.30854	0.40000	0
3	50.0000	379742.37	46943.70	0.81048	1.00000	0
4	100.0000	804423.68	128619.16	1.50763	2.00000	0
5	150.0000	1255112.63	173788.61	2.13875	3.00000	0

Average Calibration Factor = 0.7739 (%RSD = 5.66)

1,2-DCB

Component Type : Single Peak Component
Retention Time : 35.268 min Search Window: 0.70 s, 0.50 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	101109.00	13795.42	0.17984	0.20000	0
2	20.0000	206058.50	27962.70	0.35643	0.40000	0
3	50.0000	447915.50	60724.21	0.95598	1.00000	0
4	100.0000	992132.50	162816.28	1.85942	2.00000	0
5	150.0000	1572573.50	232640.37	2.67971	3.00000	0

Average Calibration Factor = 0.9138 (%RSD = 3.09)

DBCP

Component Type : Single Peak Component
Retention Time : 37.280 min Search Window: 0.70 s, 0.50 %
Reference Component:
Find Peak Closest to Expected RT in Window
Internal Standard : BROMOCHLOROMETHAN
Use Average Calibration Factor (Area Ratio / Amount Ratio)
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	10.0000	16326.00	1842.66	0.03547	0.20000	1
2	20.0000	37921.00	4807.18	0.08190	0.40000	1
3	50.0000	107085.50	14617.52	0.24128	1.00000	1
4	100.0000	213027.00	29897.50	0.48732	2.00000	1
5	150.0000	316486.00	51478.05	0.70147	3.00000	1

Average Calibration Factor = 0.1834 (%RSD = 17.56)

==========

Software Version: 3.3 <4B11>

Sample Name : MP1W 10PPB Time : 10/18/94 11:04 AM

Sample Number: Study : 8010/8020

Operator : AB/DM

Instrument : OI-1/GC10 Channel : B A/D mV Range : 1000

AutoSampler : NONE

Rack/Vial : 0/0

Interface Serial # : 2156575020 Data Acquisition Time: 10/18/94 10:19 AM

Delay Time : 0.00 min.

End Time : 38.00 min.

Sampling Rate : 1.0000 pts/sec

Raw Data File : H:\DATA\GC10\O18B001.RAW

Result File : H:\DATA\GC10\O18B001.RST

Instrument File: H:\DATA\GC10\GC10.ins

Process File : H:\DATA\GC10\ELCD-10

Sample File : H:\DATA\GC10\E10

Sequence File : H:\DATA\GC10\O18P.SEQ

Inj. Volume : 1 ul Area Reject : 3000.000000

Sample Amount : 1.0000 Dilution Factor : 1.00

==========

ELCD-GC#10

Peak #	Component Name	Time (min)	Area (uV*sec)	RA*2 (%R)	Raw Amount	Adjusted Amount	Cal. Range
2	DICHLODIFLUOMETHANE	5.087	285952.00	93	46.6364	9.3273	
3	CHLOROMETHANE	5.783	631557.47	98	48.9506	9.7901	
4	VINYL CHLORIDE	6.129	514898.53	82	40.9841	8.1968	
5	BROMOMETHANE	7.519	185457.78	95	47.4057	9.4811	
6	CHLOROETHANE	7.782	476664.22	82	40.9365	8.1873	
7	TRICHLOROFLUOROMETH	8.713	523258.50	81	40.7232	8.1446	
8	FREON	10.415	180432.50	123	61.6491	12.3298	
9	1,1-DCE	11.047	750798.00	106	53.0650	10.6130	
10	MECL2	12.775	1719866.50	136	67.7559	13.5512	
11	T-1,2-DCE	13.832	781757.00	92	45.9131	9.1826	
12	1,1-DCA	15.212	853199.00	94	47.2254	9.4451	
13	CIS-1,2-DCE	17.069	955671.95	94	46.9953	9.3991	
14	CHLOROFORM	17.536	1239975.92	99	49.3480	9.8696	
15	BROMOCHLOROMETHAN	17.998	683516.92	0	0.0000	0.0000	
16	1,1,1-TCA	18.710	984948.72	97	48.5000	9.7000	
17	CARBON TETRACHLORIDE	19.436	1116355.40	96	48.0097	9.6019	
18	1,2-DCA	19.781	846633.10	95	47.5461	9.5092	
19	TCE	21.497	1068481.00	99	49.5528	9.9106	
20	1,2-DCP	21.929	745322.50	90	45.1724	9.0345	
21	BROMODICHLOROMETHAN	22.521	760943.00	97	48.4435	9.6887	
22	2-CVE	23.265	206412.50	98	49.0999	9.8200	
23	T-1,3-DCP	23.888	711024.50	101	50.7382	10.1476	
24	C1,3-DCP	25.124	731559.71	97	48.3632	9.6726	
25	1,1,2-TCA	25.523	913184.29	97	48.4362	9.6872	
26	TETRACHLOROETHENE	26.403	1093212.59	97	48.3338	9.6668	
27	DIBROMOCHLOROMETHAN	26.849	568177.60	102	51.1441	10.2288	
28	DIBROMOETHANE	27.375	373863.80	103	51.6570	10.3314	
29	CHLOROBNZN	28.413	399664.00	101	50.3936	10.0787	
30	BROMOFORM	30.727	324046.43	104	51.9920	10.3984	
31	1,1,2,2-TCA	31.039	305194.49	44	22.2131	4.4426	
32	4-BFB	31.303	265470.09	134	67.2281	13.4456	
33	1,3-DCB	34.095	568979.88	97	48.2963	9.6593	
34	1,4-DCB	34.350	539779.12	102	51.0222	10.2044	
5	1,2-DCB	35.287	629271.00	101	50.3715	10.0743	

Date: 10 . 10 . 1994 Analyst: [illegible]DM **SAMPLE TRACK SHEET** Intrument: GC # 10 Calibration date: 10.94

Run #	Port #	Client	Sample #	Amount	Matrix	Test required	Comments	Dup.
1	1		MB1W - 10 ppb	5ml	H_2O	601/602		
2	2		MB1W	5ml				
3	3	HLA	3279	5ml		601	WIP	
4	4		3280	5ml			2ml # 10	
5	5		3281	5ml			2ml # 11	
6	6		3282	5ml			1ml # 12	
7	7		3283	5ml			0.5ml # 13	
8	8		3284	5ml			1ml # 20	
9	9		3285	5ml			0.5ml # 21	
10	10		3280	2ml	H_2O	601	WIP	✓
11	11		3281	2ml				✓
12	12		3282	1ml				✓
13	13		3283	0.5ml				✓
14	14	[redacted]	6414	5ml		601/602		
15	15		6413	5ml			2ml # 10	10/19/94
16	16		6412	5ml		601	2ml # 10	
17	1		6411	5ml				
18	2		MS1W-3279 - 10 ppb	5ml		601/602		
19	3		MSDW-3279 - 10 ppb	5ml				
20	4	HLA	3284	1ml		601	WIP 0.5ml # 24	✓
21	5		3285	0.5ml				✓
22	6		LCS1W	5ml		601/602		
23	7	[redacted]	3409	0.5ml	H_2O	601	24 hrs Rush. 100ml # 25	
24	8	HLA	3284	0.5ml			MP 0.5ml # 27	✓
25	9	[redacted]	3409	100ml			Rush (24 hrs) 100ml # 26	✓
26	9		3409	100ml	H_2O	601	Rush 1	✓
27	10	HLA	3284	500ml			WIP	✓
28								
29								
30								

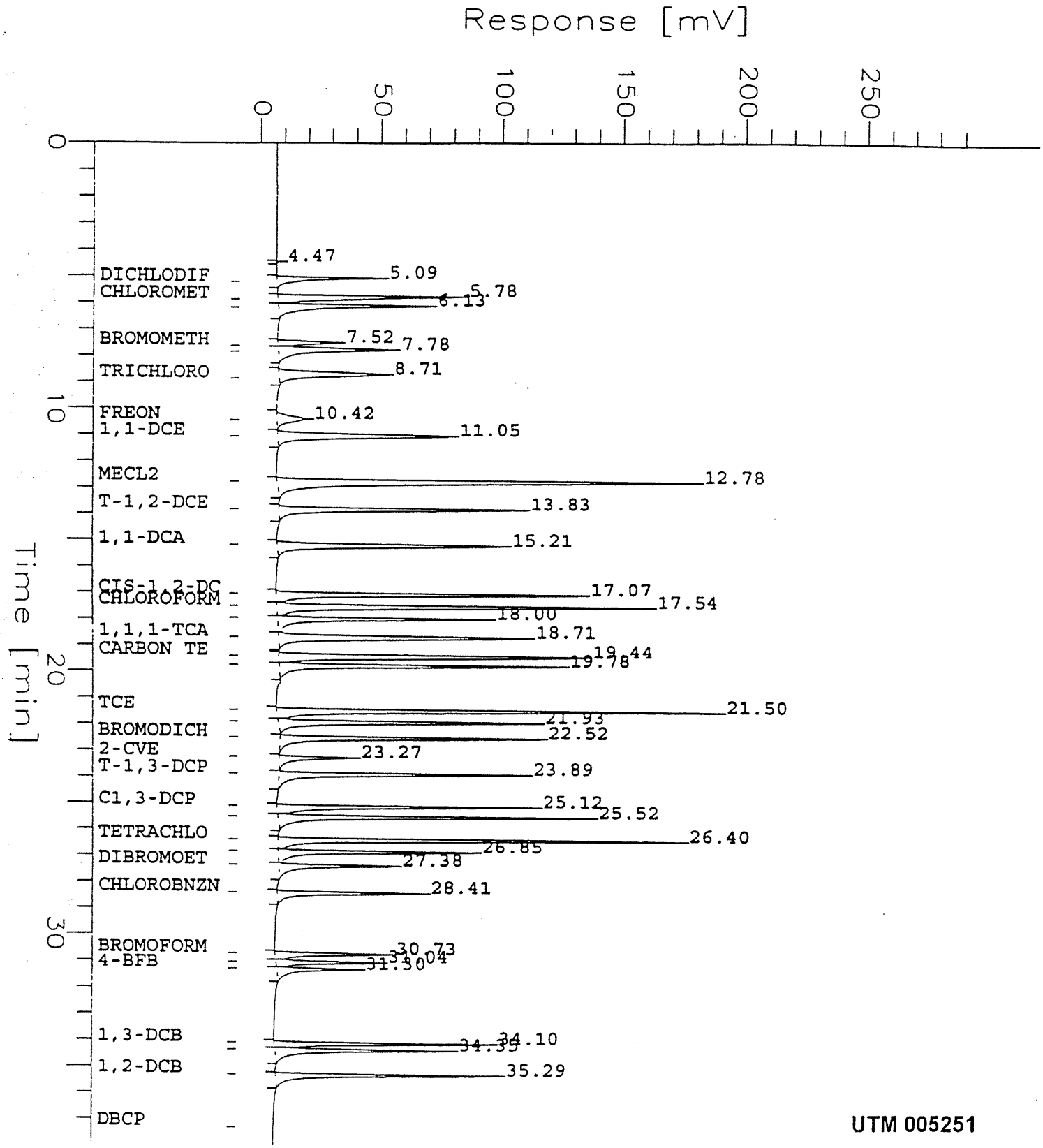
n-pro
[illegible]
problem

UTM 005250

Aromatics

Sample Name : MP1W 10PPB
FileName : h:\data\gc10\018B001.raw
Method : GC10.ins
Start Time : 0.00 min End Time : 38.00 min
Scale Factor: -1.0 Plot Offset: -8 mV

Sample #:
Date : 10/18/94 10:57 AM
Time of Injection: 10/18/94 10:19 AM
Low Point : -8.40 mV High Point :
Plot Scale: 300.0 mV



UTM 005251

Software Version: 3.3 <4B11>

Sample Name : MB1W
Sample Number:
Operator : AB/DM

Time : 10/18/94 11:41 AM
Study : 8010/8020

Instrument : OI-1/GC10
AutoSampler : NONE
Rack/Vial : 0/0

Channel : B A/D mV Range : 1000

Interface Serial # : 2156575020 Data Acquisition Time: 10/18/94 11:03 AM
Delay Time : 0.00 min.
End Time : 38.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : H:\DATA\GC10\O18B002.RAW
Result File : H:\DATA\GC10\O18B002.RST
Instrument File: H:\DATA\GC10\GC10.ins
Process File : H:\DATA\GC10\ELCD-10
Sample File : H:\DATA\GC10\E10
Sequence File : H:\DATA\GC10\O18P.SEQ

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 3000.000000
Dilution Factor : 1.00

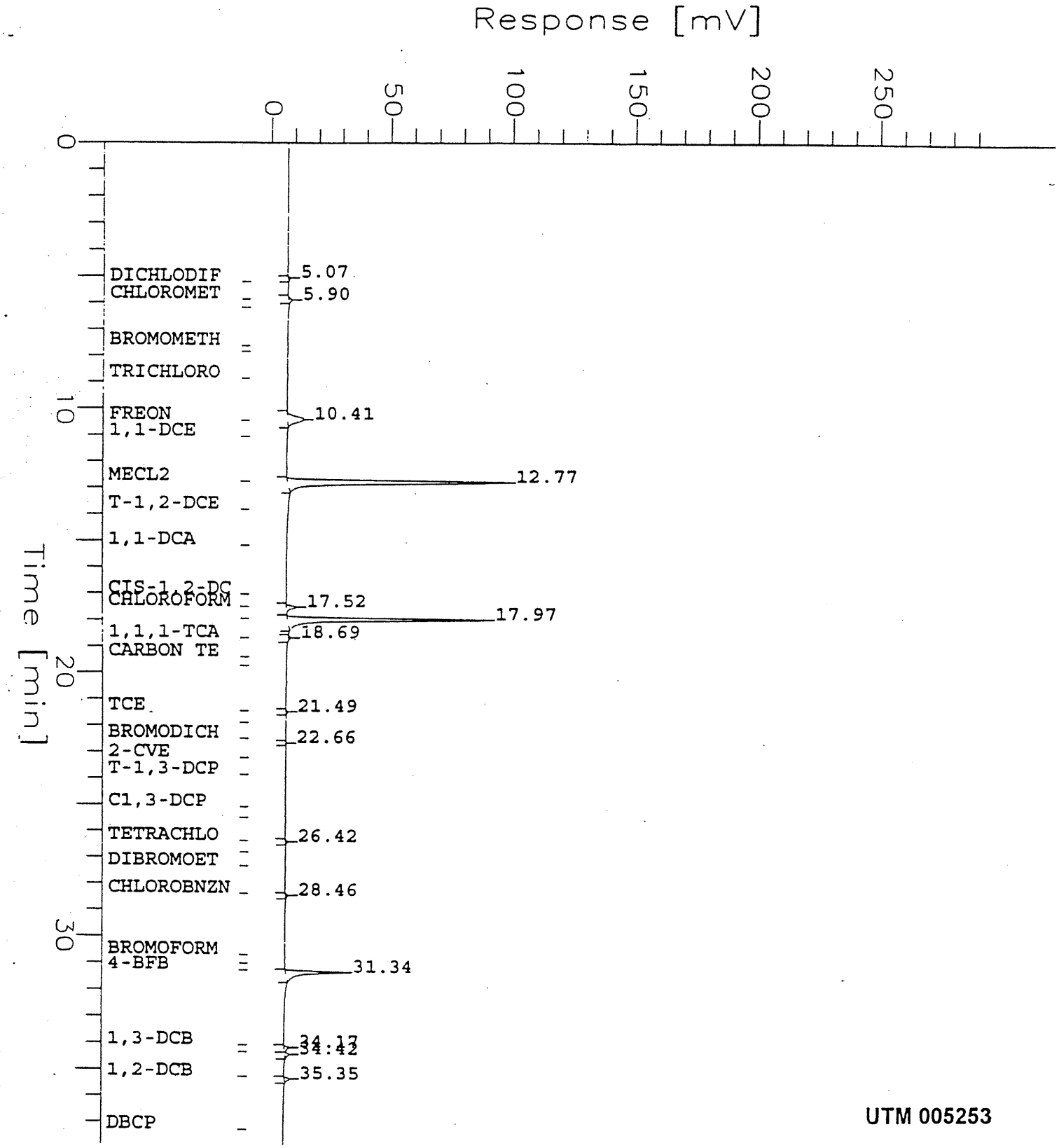
ELCD-GC#10

Peak #	Component Name	Time (min)	Area (uV*sec)	RA*2 (%R)	Raw Amount	Adjusted Amount	Cal. Range
1	DICHLODIFLUOMETHANE	5.071	6775.00	2	1.2275	~~0.2455~~	BDL.
2	CHLOROMETHANE	5.904	11761.00	2	1.0127	~~0.2025~~	
3	FREON	10.413	107810.00	82	40.9229	~~8.1846~~	L.C.
4	MECL2	12.772	803074.50	70	35.1483	~~7.0297~~	
5	CHLOROFORM	17.519	35203.50	3	1.5565	~~0.3113~~	BDL.
6	BROMOCHLOROMETHAN	17.973	615252.50	0	0.0000	0.0000	
7	1,1,1-TCA	18.686	7852.00	8.59e-01	0.4295	~~0.0859~~	
8	TCE	21.487	4765.00	4.91e-01	0.2455	~~0.0491~~	
10	TETRACHLOROETHENE	26.418	6603.00	6.49e-01	0.3243	~~0.0649~~	
11	CHLOROBNZN	28.456	7709.00	2	1.0799	~~0.2160~~	
12	4-BFB	31.342	189499.00	107	53.3136	10.6627	
13	1,3-DCB	34.166	17288.88	3	1.6303	~~0.3261~~	
14	1,4-DCB	34.423	14541.12	3	1.5270	~~0.3054~~	
15	1,2-DCB	35.353	16420.00	3	1.4602	~~0.2920~~	

Aromatics

Sample Name : MB1W
FileName : h:\data\gc10\018B002.raw
Method : GC10.ins
tart Time : 0.00 min End Time : 38.00 min
Scale Factor: -1.0 Plot Offset: -8 mV

Sample #: Page 1
Date : 10/18/94 11:41 AM
Time of Injection: 10/18/94 11:03 AM
Low Point : -8.34 mV High Point :
Plot Scale: 300.0 mV



UTM 005253

Software Version: 3.3 <4B11>

Sample Name : HLA 3279 5ML
Sample Number: DJ03279
Operator : AB/DM

Time : 10/18/94 12:27 PM
Study : 8010/8020

Instrument : OI-1/GC10
AutoSampler : NONE
Rack/Vial : 0/0

Channel : B
A/D mV Range : 1000

Interface Serial # : 2156575020
Data Acquisition Time: 10/18/94 11:46 AM
Delay Time : 0.00 min.
End Time : 38.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : H:\DATA\GC10\O18B003.RAW
Result File : H:\DATA\GC10\O18B003.RST
Instrument File: H:\DATA\GC10\GC10.ins
Process File : H:\DATA\GC10\ELCD-10
Sample File : H:\DATA\GC10\E10
Sequence File : H:\DATA\GC10\O18P.SEQ

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 3000.000000
Dilution Factor : 1.00

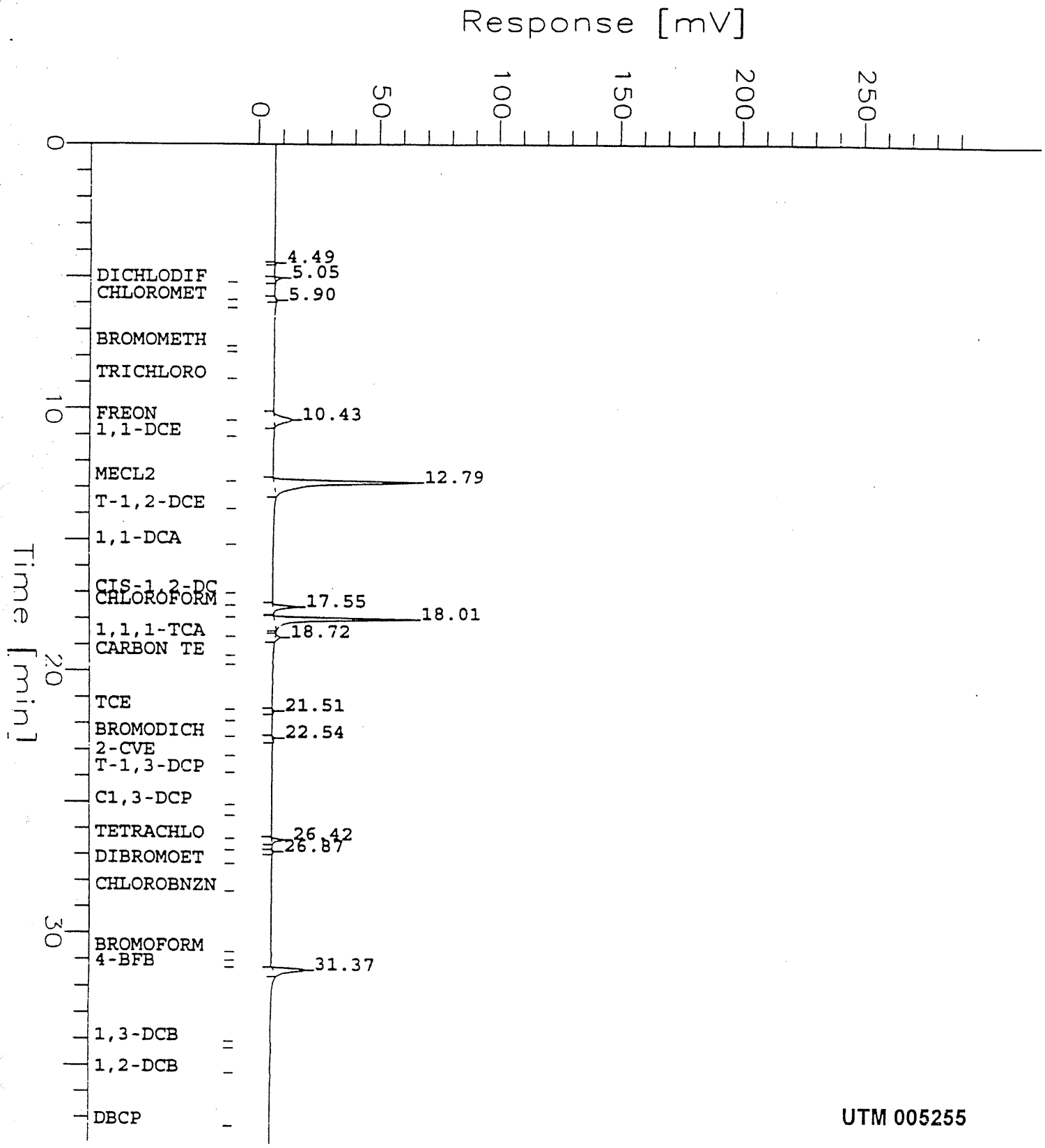
ELCD-GC#10

Peak #	Component Name	Time [min]	Area [uV*sec]	RA*2 (%R)	Raw Amount	Adjusted Amount	Cal. Range
2	DICHLODIFLUOMETHANE	5.053	17346.00	9	4.4248	~~0.8850~~	N C
3	CHLOROMETHANE	5.897	4603.00	1	0.5580	~~0.1116~~	BDL.
4	FREON	10.427	113083.00	121	60.4323	~~13.0865~~	L.C
5	MECL2	12.790	654482.00	81	40.3283	~~8.0657~~	
6	CHLOROFORM	17.548	76218.00	9	4.7443	0.9489	X C
7	BROMOCHLOROMETHAN	18.007	437008.00	0	0.0000	0.0000	
8	1,1,1-TCA	18.716	17418.50	3	1.3415	~~0.2683~~	BDL
9	TCE	21.514	5659.00	8.21e-01	0.4105	~~0.0821~~	
10	BROMODICHLOROMETHAN	22.538	6978.00	1	0.6948	~~0.1390~~	
11	TETRACHLOROETHENE	26.421	28707.00	4	1.9852	~~0.3970~~	
12	DIBROMOCHLOROMETHAN	26.874	4292.00	1	0.6043	~~0.1209~~	
13	4-BFB	31.366	134459.00	107	53.2580	10.6516	

Aromatics

Sample Name : HLA 3279 5ML
'ileName : H:\DATA\GC10\018B003.raw
Method : GC10.ins
Start Time : 0.00 min End Time : 38.00 min
Scale Factor: 1.0 Plot Offset: -8 mV

Sample # : DJ03279
Date : 10/18/94 12:27 PM
Time of Injection: 10/18/94 11:46 AM
Low Point : -8.36 mV High Point : 2
Plot Scale: 300.0 mV



Software Version: 3.3 <4B11>
Sample Name : HLA 3280 2ML
Sample Number: DJ03280
Operator : AB/DM

Time : 10/19/94 9:30 AM
Study : 8010/8020

Instrument : OI-1/GC10
AutoSampler : NONE
Rack/Vial : 0/0

Channel : B A/D mV Range : 1000

Interface Serial # : 2156575020 Data Acquisition Time: 10/18/94 4:52 PM
Delay Time : 0.00 min.
End Time : 38.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : H:\DATA\GC10\O18B010.RAW
Result File : H:\DATA\GC10\O18B010.RST
Instrument File: H:\DATA\GC10\GC10.ins
Process File : H:\DATA\GC10\ELCD-10
Sample File : H:\DATA\GC10\E10
Sequence File : H:\DATA\GC10\O18P.SEQ

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 3000.000000
Dilution Factor : 1.00

ELCD-GC#10

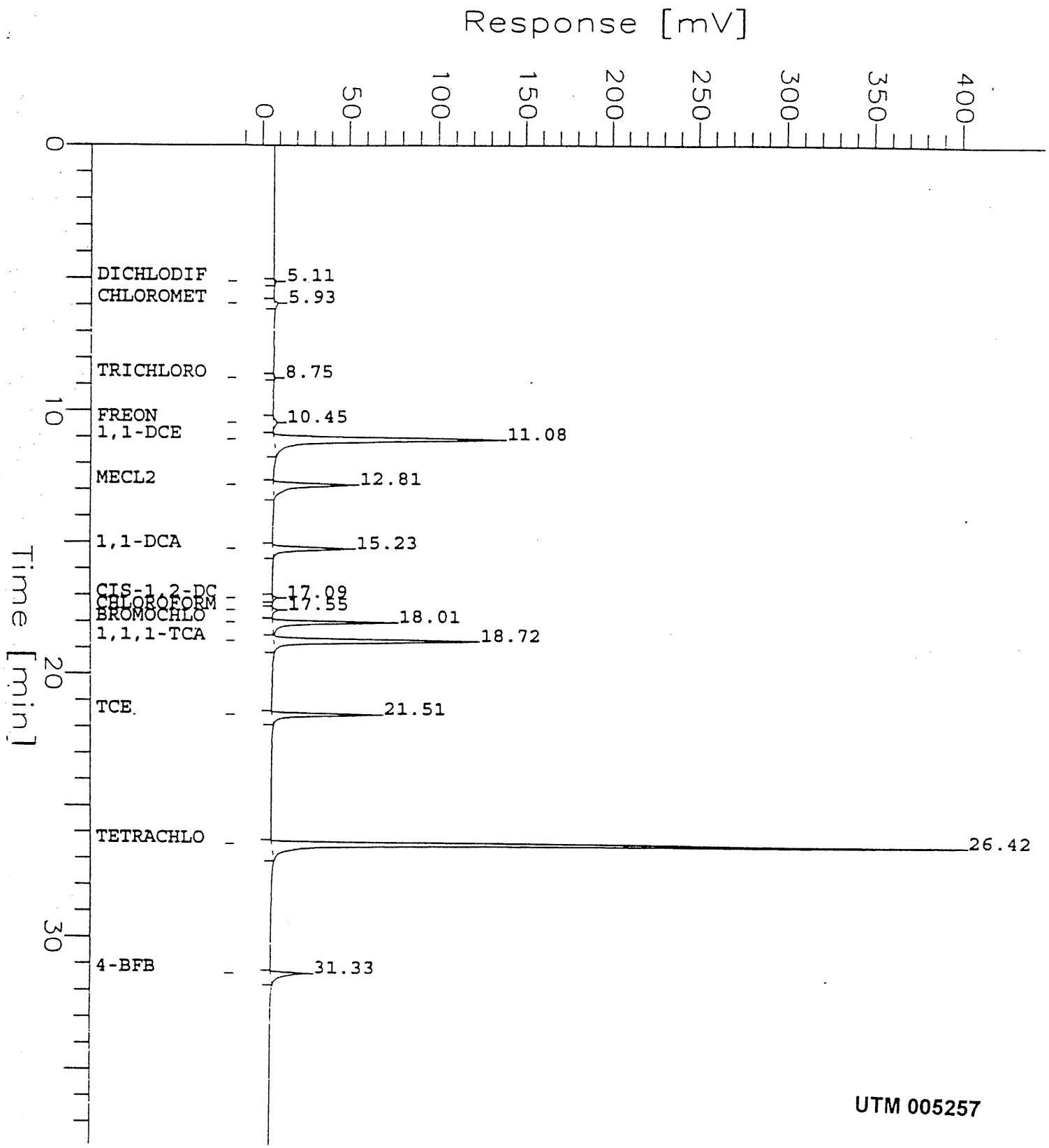
Peak #	Component Name	Time (min)	Area (uV*sec)	RA*2 (%R)	Raw Amount	Adjusted Amount	Cal. Range
1	DICHLODIFLUOMETHANE	5.107	11587.00	5	2.4975	~~1.2488~~	
2	CHLOROMETHANE	5.930	19949.50	4	2.0436	~~1.0218~~	N C.
3	TRICHLOROFLUOROMETH	8.754	4395.00	9.04e-01	0.4521	~~0.2260~~	
4	FREON	10.448	34609.00	31	15.6282	~~7.8141~~	L.C.
5	1,1-DCE	11.077	1484493.00	277	138.6665	69.3333	Y.C.
6	MECL2	12.805	477661.00	50	24.8703	~~12.4351~~	L.C.
7	1,1-DCA	15.227	380995.50	56	27.8711	13.9355	Y.C.
8	CIS-1,2-DCE	17.088	19182.00	2	1.2467	~~0.6233~~	
9	CHLOROFORM	17.553	26550.50	3	1.3965	~~0.6982~~	BDL.
10	BROMOCHLOROMETHAN	18.012	517178.85	0	0.0000	0.0000	
11	1,1,1-TCA	18.719	1057101.15	138	68.7945	34.3972	
12	TCE	21.514	413104.00	51	25.3203	12.6602	Y.C.
13	TETRACHLOROETHENE	26.424	2674773.00	313	156.2939	78.1470	
14	4-BFB	31.334	142135.50	95	47.5715	23.7857	

(DL x 2.5)

Aromatics

Sample Name : HLA 3280 2ML
FileName : H:\DATA\GC10\018B010.raw
Method : GC10.ins
Start Time : 0.00 min End Time : 38.00 min
Scale Factor: 0.0 Plot Offset: -14 mV

Sample #: DJ03280
Date : 10/19/94 9:30 AM
Time of Injection: 10/18/94 4:52 PM
Low Point : -14.20 mV High Point : 4
Plot Scale: 418.0 mV



UTM 005257

Software Version: 3.3 <4B11>
Sample Name : HLA 3283 0.5ML Time : 10/19/94 9:32 AM
Sample Number: DJ03283 Study : 8010/8020
Operator : AB/DM

Instrument : OI-1/GC10 Channel : B A/D mV Range : 1000
AutoSampler : NONE
Rack/Vial : 0/0

Interface Serial # : 2156575020 Data Acquisition Time: 10/18/94 7:02 PM
Delay Time : 0.00 min.
End Time : 38.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : H:\DATA\GC10\O18B013.RAW
Result File : H:\DATA\GC10\O18B013.RST
Instrument File: H:\DATA\GC10\GC10.ins
Process File : H:\DATA\GC10\ELCD-10
Sample File : H:\DATA\GC10\E10
Sequence File : H:\DATA\GC10\O18P.SEQ

Inj. Volume : 1 ul Area Reject : 3000.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

ELCD-GC#10

Peak #	Component Name	Time (min)	Area (uV*sec)	RA*2 (%R)	Raw Amount	Adjusted Amount	Cal. Range
1	DICHLODIFLUOMETHANE	5.068	4039.00	2	0.9530	~~1.9061~~	BDL
2	CHLOROMETHANE	5.909	57679.00	13	6.4680	~~12.9359~~	N.C.
4	TRICHLOROFLUOROMETH	8.745	9467.00	2	1.0660	~~2.1319~~	BDL.
5	FREON	10.439	25498.00	25	12.6044	~~25.3088~~	L.C
6	1,1-DCE	11.075	124224.00	25	12.7027	25.4053	Y.C.
7	MECL2	12.802	417227.50	48	23.7810	~~47.5620~~	L.C
8	1,1-DCA	15.228	110674.00	18	8.8629	17.7258	Y.C
9	CIS-1,2-DCE	17.083	66860.00	10	4.7568	9.5136	Y.C.
10	CHLOROFORM	17.549	27029.00	3	1.5563	~~3.1126~~	BDL.
11	BROMOCHLOROMETHAN	18.008	472438.00	0	0.0000	0.0000	
12	1,1,1-TCA	18.716	66795.00	10	4.7586	9.5171	
13	TCE	21.505	224166.00	30	15.0410	30.0819	
15	TETRACHLOROETHENE	26.419	2802846.00	359	179.2876	358.5753	Y.C
16	DIBROMOCHLOROMETHAN	26.870	48640.00	13	6.3345	12.6689	
17	BROMOFORM	30.774	13046.00	6	3.0284	6.0568	
18	4-BFB	31.339	143727.00	105	52.6597	105.3194	

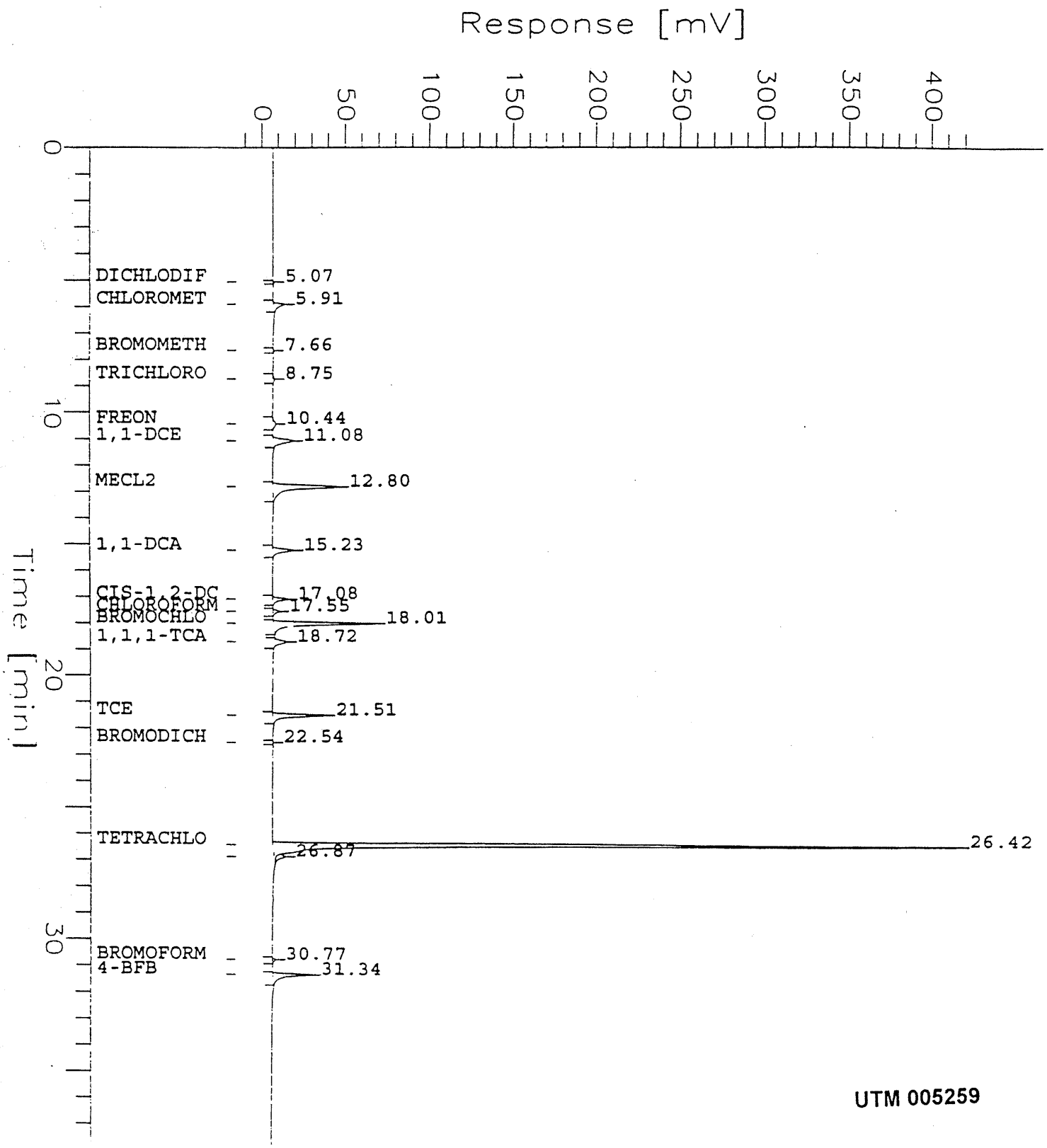
(DL x 10)

UTM 005258

Aromatics

Sample Name : HLA 3283 0.5ML
FileName : H:\DATA\GC10\018B013.raw
Method : GC10.ins
Start Time : 0.00 min End Time : 38.00 min
Scale Factor: 0.0 Plot Offset: -15 mV

Sample #: DJ03283 Page 1 o
Date : 10/19/94 9:31 AM
Time of Injection: 10/18/94. 7:02 PM
Low Point : -15.10 mV High Point : 4
Plot Scale: 436.2 mV



UTM 005259

Software Version: 3.3 <4B11>

Sample Name : MS1W 3279 10PPB Time : 10/18/94 11:18 PM
Sample Number: DJ03279 Study : 8010/8020
Operator : AB/DM

Instrument : OI-1/GC10 Channel : A A/D mV Range : 1000
AutoSampler : NONE
Rack/Vial : 0/0

Interface Serial # : 2156575020 Data Acquisition Time: 10/18/94 10:40 PM
Delay Time : 0.00 min.
End Time : 38.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : H:\DATA\GC10\O18A018.RAW
Result File : H:\DATA\GC10\O18A018.RST
Instrument File: H:\DATA\GC10\GC10.ins
Process File : H:\DATA\GC10\PID-10
Sample File : H:\DATA\GC10\P10
Sequence File : H:\DATA\GC10\O18P.SEQ

Inj. Volume : 1 ul Area Reject : 500.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

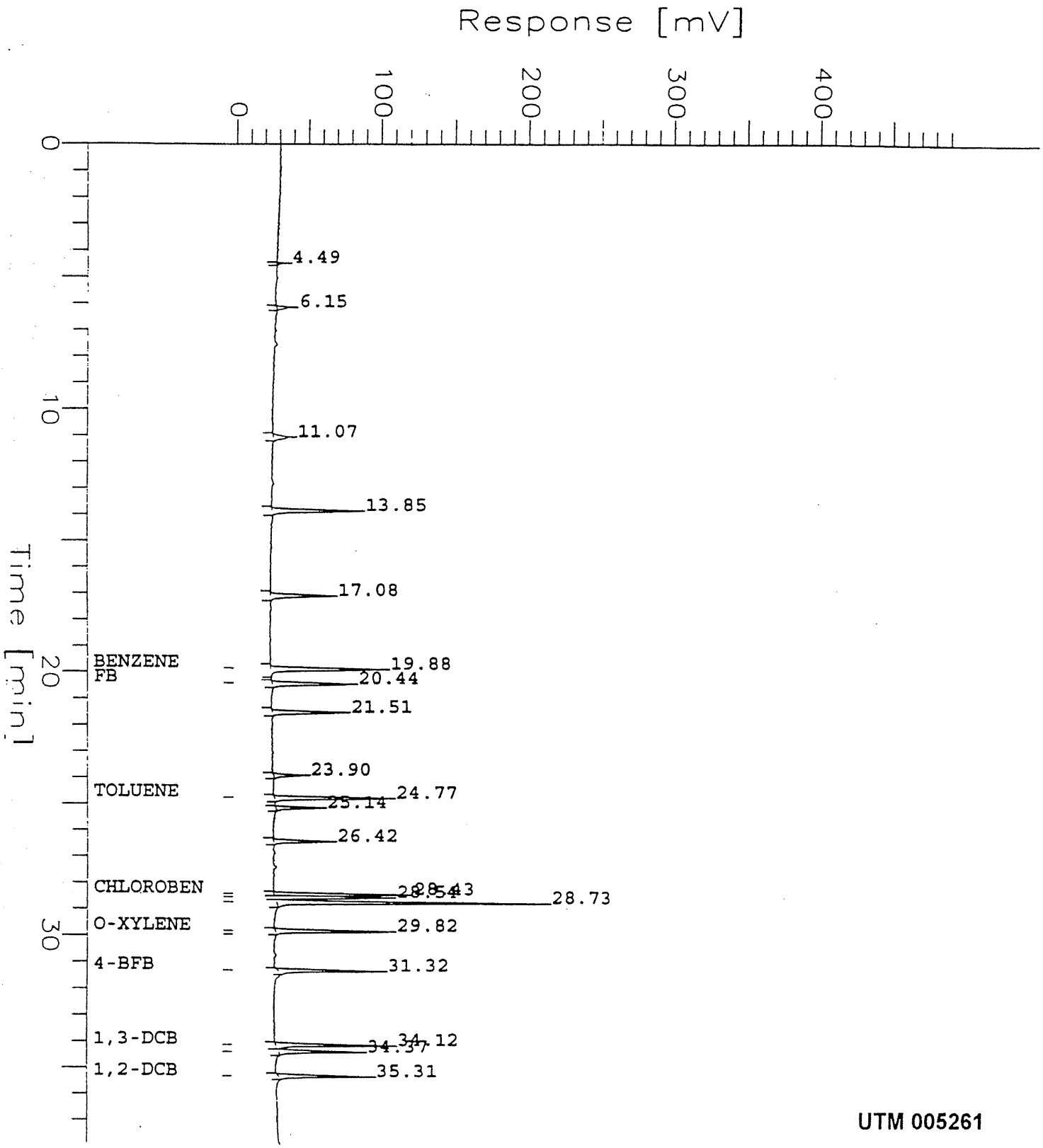
PID-GC#10

Peak #	Component Name	Time [min]	Area [uV*sec]	RA*2 (%R)	Raw Amount	Adjusted Amount	Cal. Range
6	BENZENE	19.879	518024.00	107	53.5074	10.7015	
7	FB	20.438	332264.00	104	52.0670	[illegible]	
10	TOLUENE	24.766	427937.50	104	51.7969	10.3594	
13	CHLOROBENZENE	28.431	465030.22	107	53.4863	10.6973	
14	ETHYLBENZENE	28.540	413684.82	110	54.9441	10.9888	
15	M,P-XYLENES	28.730	972216.46	219	109.4834	21.8967	
16	O-XYLENE	29.817	409523.00	104	52.0960	10.4192	
17	4-BFB	31.315	356625.50	0	0.0000	0.0000	
18	1,3-DCB	34.115	424603.58	106	52.9275	10.5855	
19	1,4-DCB	34.370	292565.42	108	54.0588	10.8118	
20	1,2-DCB	35.307	324718.00	109	54.4167	10.8833	

Aromatics

Sample Name : MS1W 3279 10PPB
'ileName : h:\data\gc10\018A018.raw
thod : GC10.ins
.art Time : 0.00 min End Time : 38.00 min
Scale Factor: -1.0 Plot Offset: -2 mV

Sample #: DJ03279
Date : 10/18/94 11:18 PM
Time of Injection: 10/18/94 10:40 PM
Low Point : -1.56 mV High Point : 4
Plot Scale: 500.0 mV



Software Version: 3.3 <4B11>

Sample Name : MS1W 3279 10PPB
Sample Number: DJ03279
Operator : AB/DM

Time : 10/19/94 9:33 AM
Study : 8010/8020

Instrument : OI-1/GC10
AutoSampler : NONE
Rack/Vial : 0/0

Channel : B A/D mV Range : 1000

Interface Serial # : 2156575020 Data Acquisition Time: 10/18/94 10:40 PM
Delay Time : 0.00 min.
End Time : 38.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : H:\DATA\GC10\O18B018.RAW
Result File : H:\DATA\GC10\O18B018.RST
Instrument File: H:\DATA\GC10\GC10.ins
Process File : H:\DATA\GC10\ELCD-10
Sample File : H:\DATA\GC10\E10
Sequence File : H:\DATA\GC10\O18P.SEQ

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 3000.000000
Dilution Factor : 1.00

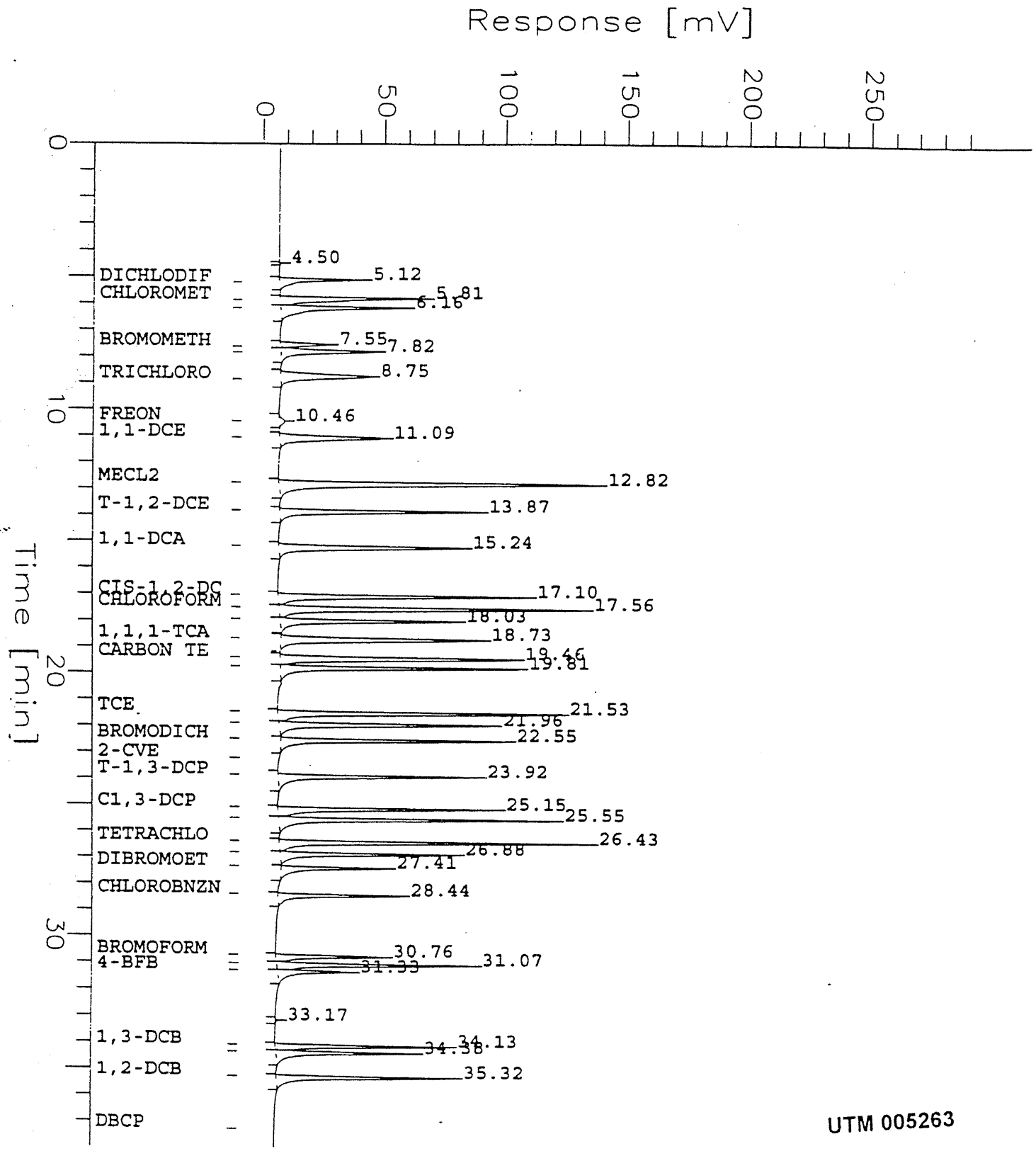
ELCD-GC#10

Peak #	Component Name	Time [min]	Area [uV*sec]	RA*2 (%R)	Raw Amount	Adjusted Amount	Cal. Range
2	DICHLODIFLUOMETHANE	5.118	239382.00	96	48.1106	9.6221	
3	CHLOROMETHANE	5.813	483937.05	92	46.2223	9.2445	
4	VINYL CHLORIDE	6.161	451965.95	89	44.3320	8.8664	
5	BROMOMETHANE	7.553	155510.12	98	48.9848	9.7970	
6	CHLOROETHANE	7.816	367704.38	76	38.9148	7.7830	
7	TRICHLOROFLUOROMETH	8.754	449569.00	86	43.1161	8.6232	
8	1,1-DCE	11.086	508733.00	89	44.3091	8.8618	
9	MECL2	12.815	1242299.00	121	60.3110	12.0622	
10	T-1,2-DCE	13.865	636365.00	92	46.0563	9.2113	
11	1,1-DCA	15.242	694971.50	95	47.4035	9.4807	
12	CIS-1,2-DCE	17.095	781937.77	95	47.3844	9.4769	
13	CHLOROFORM	17.561	1011906.31	99	49.6266	9.9253	
14	BROMOCHLOROMETHAN	18.025	554665.91	0	0.0000	0.0000	
15	1,1,1-TCA	18.734	776575.00	94	47.1226	9.4245	
16	CARBON TETRACHLORIDE	19.460	864297.53	92	45.8044	9.1609	
17	1,2-DCA	19.807	723736.47	100	50.0862	10.0172	
18	TCE	21.525	827284.71	95	47.2796	9.4559	
19	1,2-DCP	21.956	671903.29	100	50.1826	10.0365	
20	BROMODICHLOROMETHAN	22.550	654942.00	103	51.3812	10.2762	
21	T-1,3-DCP	23.917	583376.00	103	51.3000	10.2600	
22	C1,3-DCP	25.153	607679.79	99	49.5060	9.9012	
23	1,1,2-TCA	25.553	791294.21	103	51.7211	10.3442	
24	TETRACHLOROETHENE	26.433	838956.38	91	45.7092	9.1418	
25	DIBROMOCHLOROMETHAN	26.879	491647.62	109	54.5360	10.9072	
26	DIBROMOETHANE	27.405	317070.50	108	53.9870	10.7974	
27	CHLOROBNZN	28.444	341356.50	106	53.0404	10.6081	
28	BROMOFORM	30.756	267925.00	106	52.9737	10.5947	
29	1,1,2,2-TCA	31.067	487503.94	87	43.7249	8.7450	
30	4-BFB	31.332	201055.06	125	62.7434	12.5487	
32	1,3-DCB	34.127	456605.98	96	47.7614	9.5523	
33	1,4-DCB	34.382	426306.02	99	49.6572	9.9314	
34	1,2-DCB	35.320	505625.00	100	49.8762	9.9752	

Aromatics

Sample Name : MS1W 3279 10PPB
FileName : h:\data\gc10\018B018.raw
Method : GC10.ins
Start Time : 0.00 min End Time : 38.00 min
Scale Factor: -1.0 Plot Offset: -8 mV

Sample #: DJ03279
Date : 10/18/94 11:18 PM
Time of Injection: 10/18/94 10:40 PM
Low Point : -8.31 mV High Point :
Plot Scale: 300.0 mV

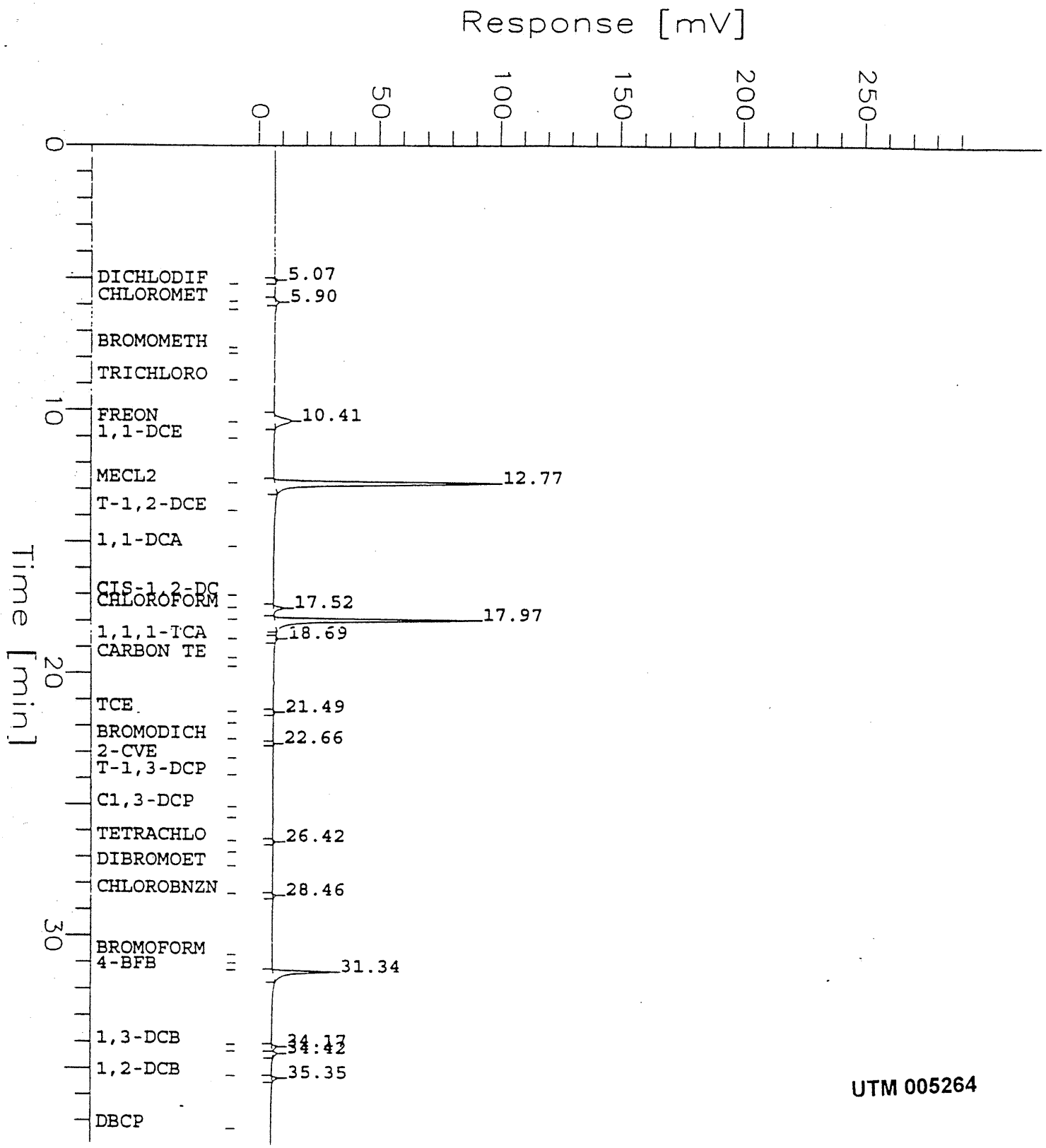


UTM 005263

Aromatics

Sample Name : MB1W
FileName : h:\data\gc10\018B002.raw
Method : GC10.ins
Start Time : 0.00 min End Time : 38.00 min
Scale Factor: -1.0 Plot Offset: -8 mV

Sample #:
Date : 10/18/94 11:41 AM
Time of Injection: 10/18/94 11:03 AM
Low Point : -8.34 mV High Point : 2
Plot Scale: 300.0 mV

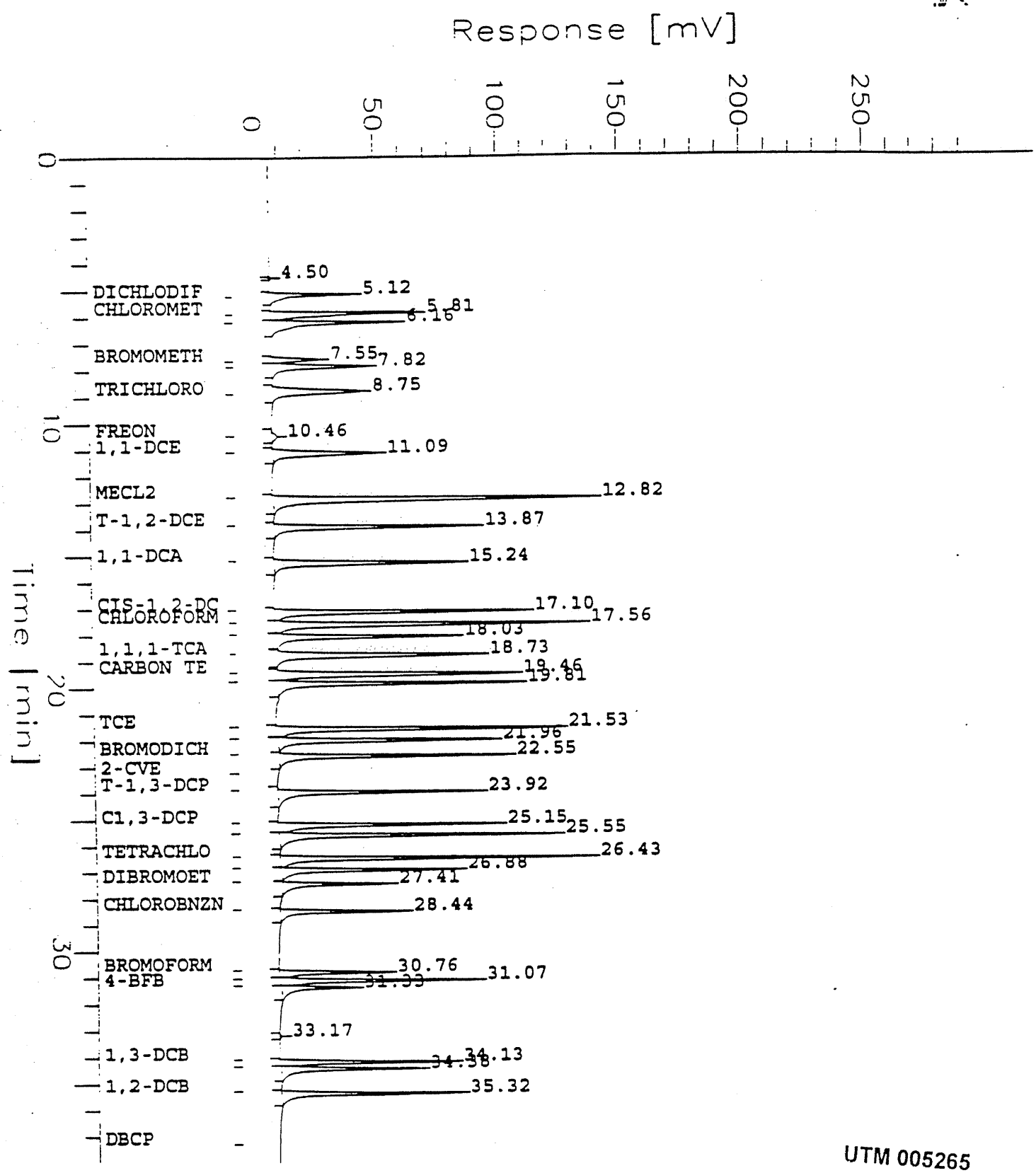


UTM 005264

Aromatics

Sample Name : MS1W 3279 10PPB
FileName : h:\data\gc10\018B018.raw
Method : GC10.ins
Start Time : 0.00 min End Time : 38.00 min
Scale Factor: -1.0 Plot Offset: -8 mV

Sample #: DJ03279 Page 1 o
Date : 10/18/94 11:18 PM
Time of Injection: 10/18/94 10:40 PM
Low Point : -8.31 mV High Point : 2
Plot Scale: 300.0 mV



UTM 005265

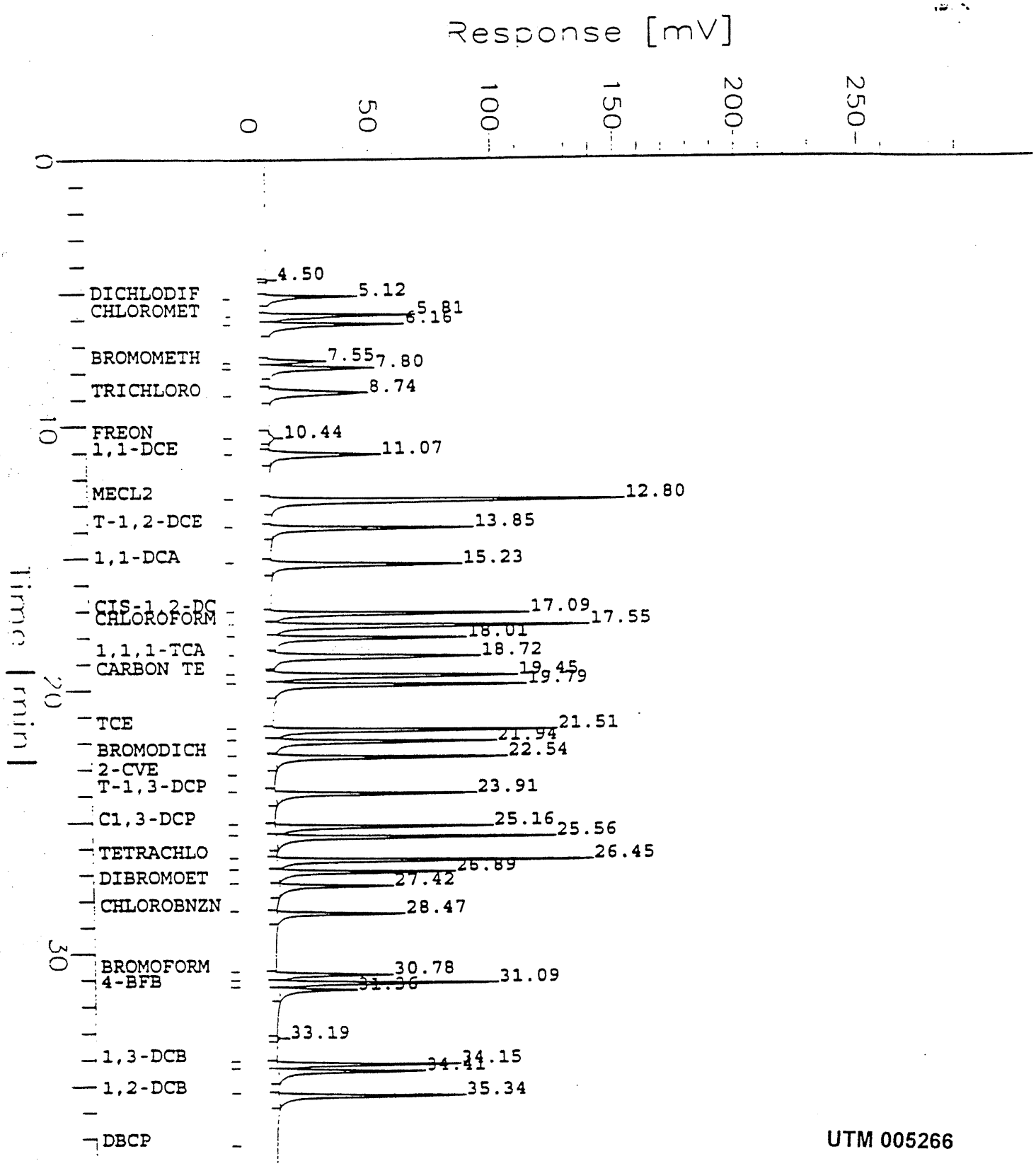
Aromatics

Sample Name : MSD1W 3279 10PPB
FileName : h:\data\gc10\018B019.raw
Method : GC10.ins
Start Time : 0.00 min
Scale Factor: -1.0

End Time : 38.00 min
Plot Offset: -8 mV

Sample #: DJ03279
Date : 10/19/94 12:02 AM
Time of Injection: 10/18/94 11:23 PM
Low Point : -8.30 mV
Plot Scale: 300.0 mV

High Point : 2



UTM 005266

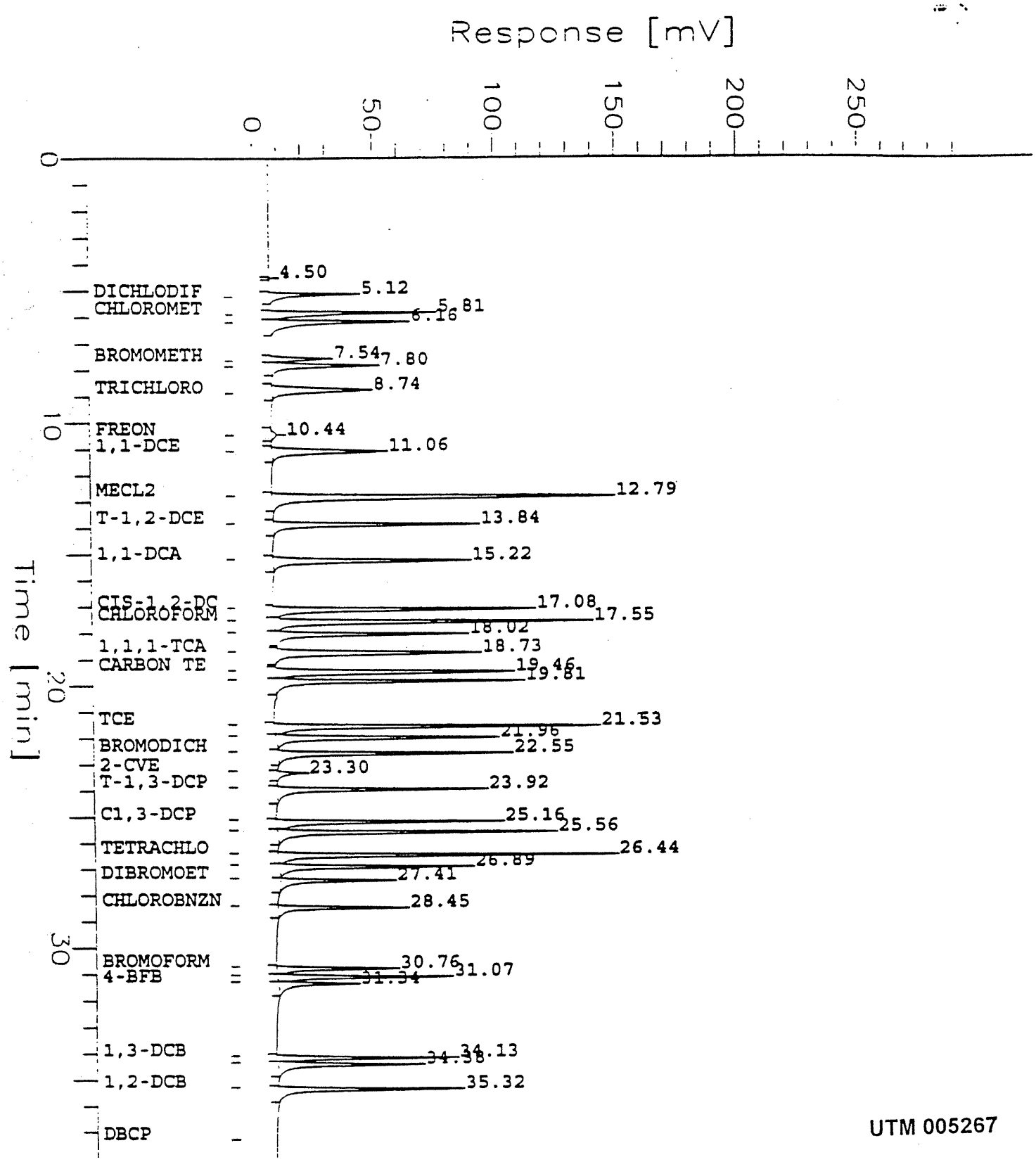
Aromatics

Sample Name : LCS1W 10PPB
FileName : h:\data\gc10\018B022.raw
Method : GC10.ins
Start Time : 0.00 min
Scale Factor: -1.0

End Time : 38.00 min
Plot Offset: -8 mV

Sample #:
Date : 10/19/94 2:13 AM
Time of Injection: 10/19/94 1:35 AM
Low Point : -8.30 mV
Plot Scale: 300.0 mV

Page 1 o
High Point : 2



UTM 005267

Software Version: 3.3 <4B11>

Sample Name : LCS1W 10PPB
Sample Number:
Operator : AB/DM

Time : 10/19/94 9:35 AM
Study : 8010/8020

Instrument : OI-1/GC10
AutoSampler : NONE
Rack/Vial : 0/0

Channel : B A/D mV Range : 1000

Interface Serial # : 2156575020 Data Acquisition Time: 10/19/94 1:35 AM
Delay Time : 0.00 min.
End Time : 38.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : H:\DATA\GC10\O18B022.RAW
Result File : H:\DATA\GC10\O18B022.RST
Instrument File: H:\DATA\GC10\GC10.ins
Process File : H:\DATA\GC10\ELCD-10
Sample File : H:\DATA\GC10\E10
Sequence File : H:\DATA\GC10\O18P.SEQ

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 3000.000000
Dilution Factor : 1.00

ELCD-GC#10

Peak #	Component Name	Time (min)	Area (uV*sec)	RA*2 (%R)	Raw Amount	Adjusted Amount	Cal. Range
2	DICHLODIFLUOMETHANE	5.118	228950.00	91	45.2533	9.0507	
3	CHLOROMETHANE	5.810	476460.64	90	44.7558	8.9512	
4	VINYL CHLORIDE	6.155	453666.36	88	43.7631	8.7526	
5	BROMOMETHANE	7.544	166145.26	103	51.4696	10.2939	
6	CHLOROETHANE	7.804	371898.74	77	38.7080	7.7416	
7	TRICHLOROFLUOROMETH	8.737	453610.00	86	42.7844	8.5569	
8	1,1-DCE	11.062	524626.50	90	44.9379	8.9876	
9	MECL2	12.793	1311864.00	125	62.6353	12.5271	
10	T-1,2-DCE	13.842	642935.50	92	45.7625	9.1525	
11	1,1-DCA	15.221	711493.00	95	47.7280	9.5456	
12	CIS-1,2-DCE	17.083	792157.61	94	47.2101	9.4420	
13	CHLOROFORM	17.553	1026522.22	99	49.5111	9.9022	
14	BROMOCHLOROMETHAN	18.016	563990.17	0	0.0000	0.0000	
15	1,1,1-TCA	18.731	763270.00	91	45.5496	9.1099	
16	CARBON TETRACHLORIDE	19.460	853701.81	89	44.4949	8.8990	
17	1,2-DCA	19.806	724897.19	99	49.3371	9.8674	
18	TCE	21.527	919622.51	103	51.6879	10.3376	
19	1,2-DCP	21.959	676050.49	99	49.6576	9.9315	
20	BROMODICHLOROMETHAN	22.553	653017.00	101	50.3832	10.0766	
21	2-CVE	23.304	69629.00	40	20.0730	4.0146	
22	T-1,3-DCP	23.922	582472.00	101	50.3737	10.0747	
23	C1,3-DCP	25.160	611815.07	98	49.0188	9.8038	
24	1,1,2-TCA	25.560	786443.93	101	50.5542	10.1108	
25	TETRACHLOROETHENE	26.440	910719.27	98	48.7988	9.7598	
26	DIBROMOCHLOROMETHAN	26.885	519077.73	113	56.6268	11.3254	
27	DIBROMOETHANE	27.410	320234.00	107	53.6242	10.7248	
28	CHLOROBENZN	28.451	332412.00	102	50.7966	10.1593	
29	BROMOFORM	30.761	286130.00	111	55.6378	11.1276	
30	1,1,2,2-TCA	31.072	415601.96	73	36.6596	7.3319	
31	4-BFB	31.336	202432.04	124	62.1287	12.4257	
32	1,3-DCB	34.129	454615.29	94	46.7670	9.3534	
33	1,4-DCB	34.384	429441.71	98	49.1954	9.8391	
34	1,2-DCB	35.320	510431.00	99	49.8178	9.9036	

Software Version: 3.3 <4B11>

Sample Name : MSD1W 3279 10PPB Time : 10/19/94 12:02 AM
Sample Number: DJ03279 Study : 8010/8020
Operator : AB/DM

Instrument : OI-1/GC10 Channel : A A/D mV Range : 1000
AutoSampler : NONE
Rack/Vial : 0/0

Interface Serial # : 2156575020 Data Acquisition Time: 10/18/94 11:23 PM
Delay Time : 0.00 min.
End Time : 38.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : H:\DATA\GC10\O18A019.RAW
Result File : H:\DATA\GC10\O18A019.RST
Instrument File: H:\DATA\GC10\GC10.ins
Process File : H:\DATA\GC10\PID-10
Sample File : H:\DATA\GC10\P10
Sequence File : H:\DATA\GC10\O18P.SEQ

Inj. Volume : 1 ul Area Reject : 500.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

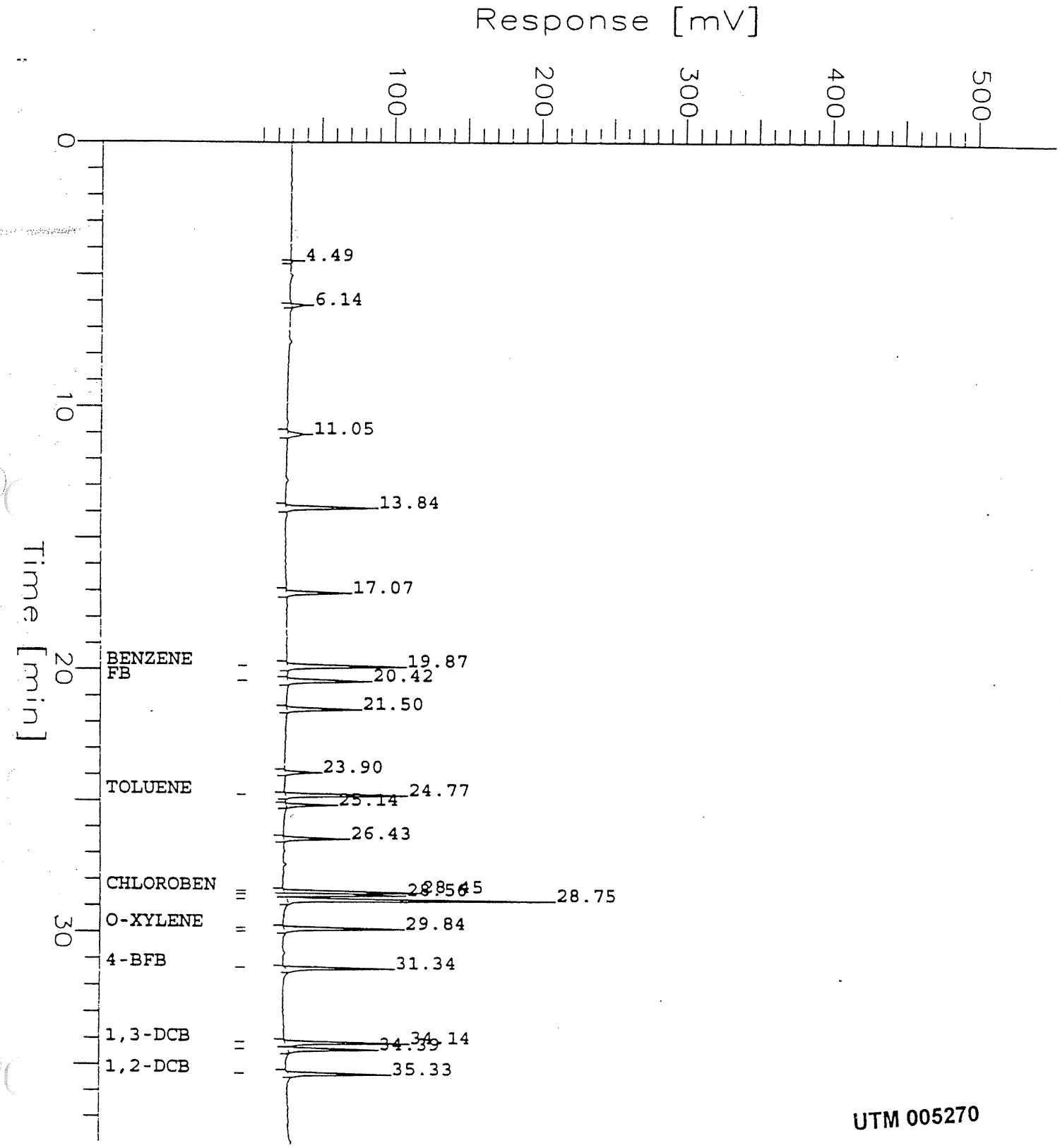
PID-GC#10

Peak #	Component Name	Time (min)	Area (uV*sec)	RA*2 (%R)	Raw Amount	Adjusted Amount	Cal. Range
6	BENZENE	19.865	489864.00	99	49.4978	9.8996	
7	FB	20.423	328197.00	101	50.3108	10.0622	
10	TOLUENE	24.766	430458.00	102	50.9684	10.1937	
13	CHLOROBENZENE	28.452	441491.24	99	49.6742	9.9348	
14	ETHYLBENZENE	28.562	411557.49	107	53.4724	10.6945	
15	M,P-XYLENES	28.751	935208.27	206	103.0246	20.6049	
16	O-XYLENE	29.840	426214.00	106	53.0397	10.6079	
17	4-BFB	31.339	364557.00	0	0.0000	0.0000	
18	1,3-DCB	34.138	440765.24	107	53.7468	10.7494	
19	1,4-DCB	34.393	305818.76	111	55.2783	11.0557	
20	1,2-DCB	35.330	335451.00	110	54.9923	10.9985	

Aromatics

Sample Name : MSD1W 3279 10PPB
FileName : h:\data\gc10\018A019.raw
Method : GC10.ins
Start Time : 0.00 min End Time : 38.00 min
Scale Factor: -1.0 Plot Offset: 1 mV

Sample #: DJ03279
Date : 10/19/94 12:02 AM
Time of Injection: 10/18/94 11:23 PM
Low Point : 0.65 mV High Point : 5
Plot Scale: 500.0 mV



Software Version: 3.3 <4B11>
Sample Name : MSD1W 3279 10PPB Time : 10/19/94 9:34 AM
Sample Number: DJ03279 Study : 8010/8020
Operator : AB/DM

Instrument : OI-1/GC10 Channel : B A/D mV Range : 1000
AutoSampler : NONE
Rack/Vial : 0/0

Interface Serial # : 2156575020 Data Acquisition Time: 10/18/94 11:23 PM
Delay Time : 0.00 min.
End Time : 38.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : H:\DATA\GC10\O18B019.RAW
Result File : H:\DATA\GC10\O18B019.RST
Instrument File: H:\DATA\GC10\GC10.ins
Process File : H:\DATA\GC10\ELCD-10
Sample File : H:\DATA\GC10\E10
Sequence File : H:\DATA\GC10\O18P.SEQ

Inj. Volume : 1 ul Area Reject : 3000.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

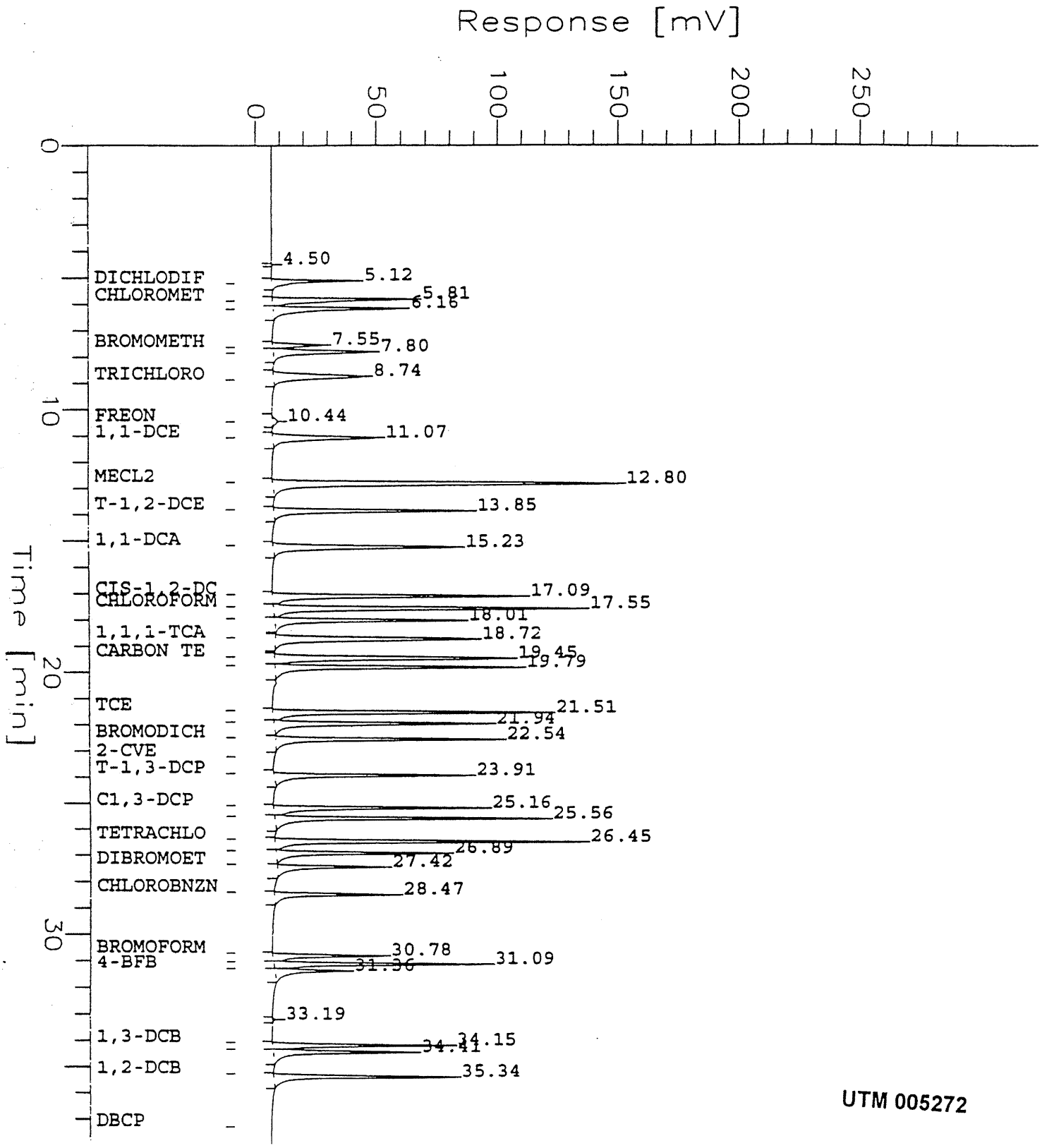
ELCD-GC#10

Peak #	Component Name	Time (min)	Area (uV*sec)	RA*2 (%R)	Raw Amount	Adjusted Amount	Cal. Range
2	DICHLODIFLUOMETHANE	5.116	226593.00	90	44.8722	8.9744	
3	CHLOROMETHANE	5.809	440485.17	83	41.4548	8.2910	
4	VINYL CHLORIDE	6.155	425533.83	82	41.1270	8.2254	
5	BROMOMETHANE	7.545	155112.00	96	48.1426	9.6285	
6	CHLOROETHANE	7.804	366081.00	76	38.1746	7.6349	
7	TRICHLOROFLUOROMETH	8.738	446506.00	84	42.1941	8.4388	
8	1,1-DCE	11.066	496867.00	85	42.6407	8.5281	
9	MECL2	12.799	1266785.50	121	60.5975	12.1195	
10	T-1,2-DCE	13.850	618249.50	88	44.0887	8.8177	
11	1,1-DCA	15.231	679063.50	91	45.6388	9.1278	
12	CIS-1,2-DCE	17.085	775254.99	93	46.2902	9.2580	
13	CHLOROFORM	17.551	1015440.81	98	49.0693	9.8139	
14	BROMOCHLOROMETHAN	18.013	562924.70	0	0.0000	0.0000	
15	1,1,1-TCA	18.722	769701.00	92	46.0203	9.2041	
16	CARBON TETRACHLORIDE	19.447	854209.15	89	44.6056	8.9211	
17	1,2-DCA	19.793	727787.85	99	49.6276	9.9255	
18	TCE	21.511	794837.36	90	44.7588	8.9518	
19	1,2-DCP	21.944	664546.64	98	48.9050	9.7810	
20	BROMODICHLOROMETHAN	22.539	647705.00	100	50.0680	10.0136	
21	T-1,3-DCP	23.914	545806.00	95	47.2920	9.4584	
22	C1,3-DCP	25.157	589308.83	95	47.3050	9.4610	
23	1,1,2-TCA	25.560	782298.17	101	50.3829	10.0766	
24	TETRACHLOROETHENE	26.445	835274.93	90	44.8410	8.9682	
25	DIBROMOCHLOROMETHAN	26.894	476799.07	104	52.1130	10.4226	
26	DIBROMOETHANE	27.421	310942.00	104	52.1668	10.4334	
27	CHLOROBNZN	28.465	324571.00	99	49.6923	9.9385	
28	BROMOFORM	30.780	268010.50	104	52.2132	10.4426	
29	1,1,2,2-TCA	31.091	535783.60	95	47.3501	9.4700	
30	4-BFB	31.355	199538.40	123	61.3565	12.2713	
32	1,3-DCB	34.151	460952.87	95	47.5087	9.5017	
33	1,4-DCB	34.406	427792.13	98	49.0992	9.8198	
34	1,2-DCB	35.342	515408.00	100	50.0953	10.0191	

Aromatics

Sample Name : MSD1W 3279 10PPB
leName : h:\data\gc10\018B019.raw
hod : GC10.ins
art Time : 0.00 min End Time : 38.00 min
Scale Factor: -1.0 Plot Offset: -8 mV

Sample #: DJ03279 Page 1 o
Date : 10/19/94 12:02 AM
Time of Injection: 10/18/94 11:23 PM
Low Point : -8.30 mV High Point : 2
Plot Scale: 300.0 mV



UTM 005272

Software Version: 3.3 <4B11>

Sample Name : HLA 3285 0.5ML
Sample Number: DJ03285
Operator : AB/DM

Time : 10/19/94 9:35 AM
Study : 8010/8020

Instrument : OI-1/GC10
AutoSampler : NONE
Rack/Vial : 0/0

Channel : B A/D mV Range : 1000

Interface Serial # : 2156575020 Data Acquisition Time: 10/19/94 12:51 AM
Delay Time : 0.00 min.
End Time : 38.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : H:\DATA\GC10\O18B021.RAW
Result File : H:\DATA\GC10\O18B021.RST
Instrument File: H:\DATA\GC10\GC10.ins
Process File : H:\DATA\GC10\ELCD-10
Sample File : H:\DATA\GC10\E10
Sequence File : H:\DATA\GC10\O18P.SEQ

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 3000.000000
Dilution Factor : 1.00

ELCD-GC#10

Peak #	Component Name	Time (min)	Area (uV*sec)	RA*2 (%R)	Raw Amount	Adjusted Amount	Cal. Range
2	CHLOROMETHANE	5.920	23763.00	5	2.5714	~~6.1427~~	N.C.
4	FREON	10.465	30704.50	29	14.6464	~~39.3927~~	L.C.
5	1,1-DCE	11.083	283807.00	56	28.0043	56.0086	Y.C.
6	MECL2	12.812	439577.00	48	24.1771	~~48.3543~~	L.C.
7	CHLOROFORM	17.557	21379.00	2	1.1878	~~2.3757~~	BDL.
8	BROMOCHLOROMETHAN	18.010	489590.50	0	0.0000	0.0000	
9	1,1,1-TCA	18.724	53766.50	7	3.6962	7.3924	
10	TCE	21.514	93632.50	12	6.0624	12.1248	
12	TETRACHLOROETHENE	26.425	2424678.50	299	149.6639	299.3278	Y.C.
13	DIBROMOCHLOROMETHAN	26.878	45901.00	12	5.7683	11.5367	
14	BROMOFORM	30.773	13655.00	6	3.0587	6.1174	
15	4-BFB	31.338	142926.00	101	50.5316	101.0632	

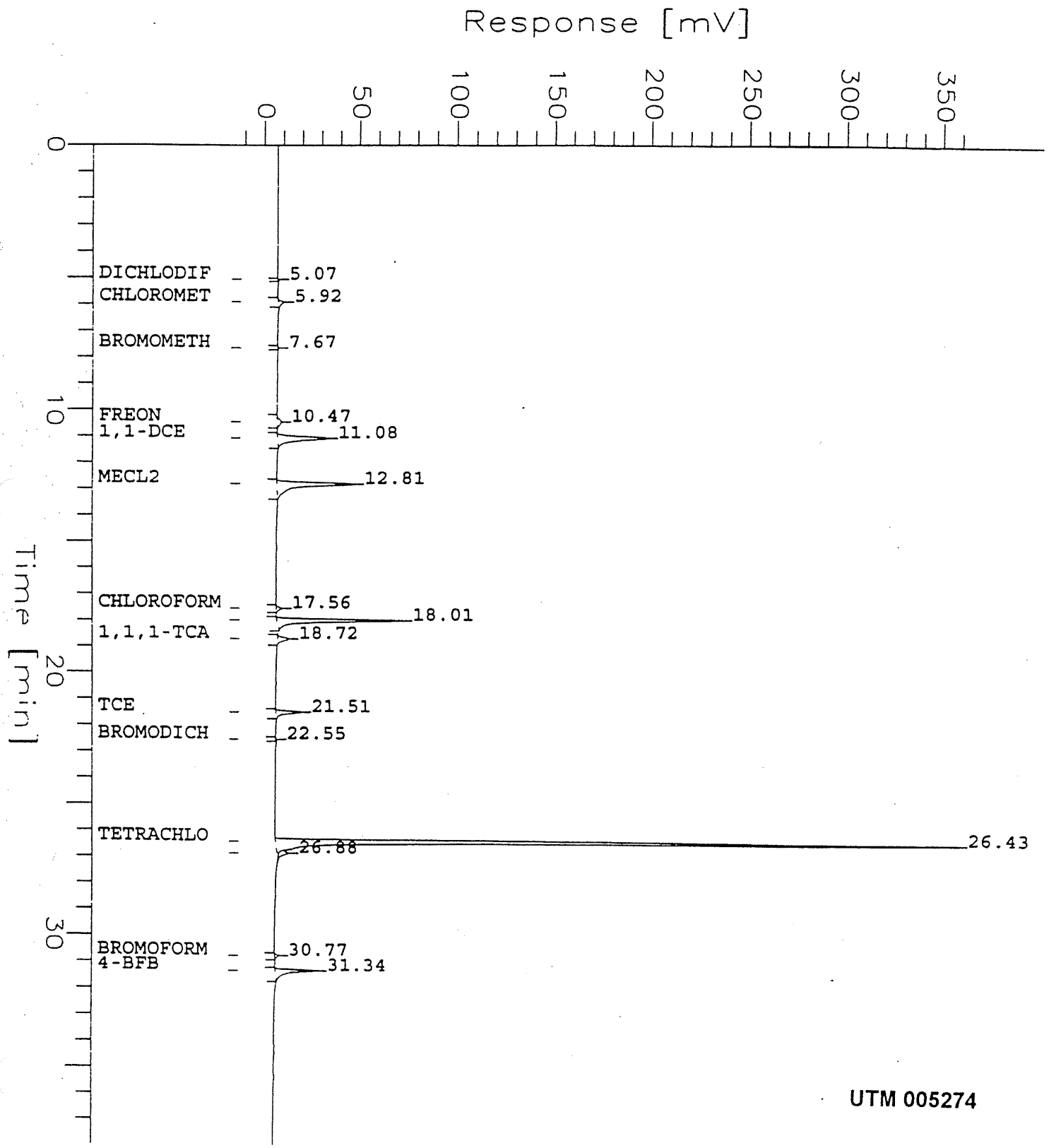
(DL x 10)

Aromatics

Sample Name : HLA 3285 0.5ML
ileName : H:\DATA\GC10\018B021.raw
thod : GC10.ins
rt Time : 0.00 min End Time : 38.00 min
cale Factor: 0.0 Plot Offset: -12 mV

Sample #: DJ03285
Date : 10/19/94 9:34 AM
Time of Injection: 10/19/94 12:51 AM
Low Point : -12.05 mV
Plot Scale: 374.9 mV

High Point : 3



UTM 005274

Software Version: 3.3 <4B11>

Sample Name : LCS1W 10PPB
Time : 10/19/94 2:13 AM
Sample Number:
Study : 8010/8020
Operator : AB/DM

Instrument : OI-1/GC10
Channel : A
A/D mV Range : 1000
AutoSampler : NONE
Rack/Vial : 0/0

Interface Serial # : 2156575020
Data Acquisition Time: 10/19/94 1:35 AM
Delay Time : 0.00 min.
End Time : 38.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : H:\DATA\GC10\O18A022.RAW
Result File : H:\DATA\GC10\O18A022.RST
Instrument File: H:\DATA\GC10\GC10.ins
Process File : H:\DATA\GC10\PID-10
Sample File : H:\DATA\GC10\P10
Sequence File : H:\DATA\GC10\O18P.SEQ

Inj. Volume : 1 ul
Area Reject : 500.000000
Sample Amount : 1.0000
Dilution Factor : 1.00

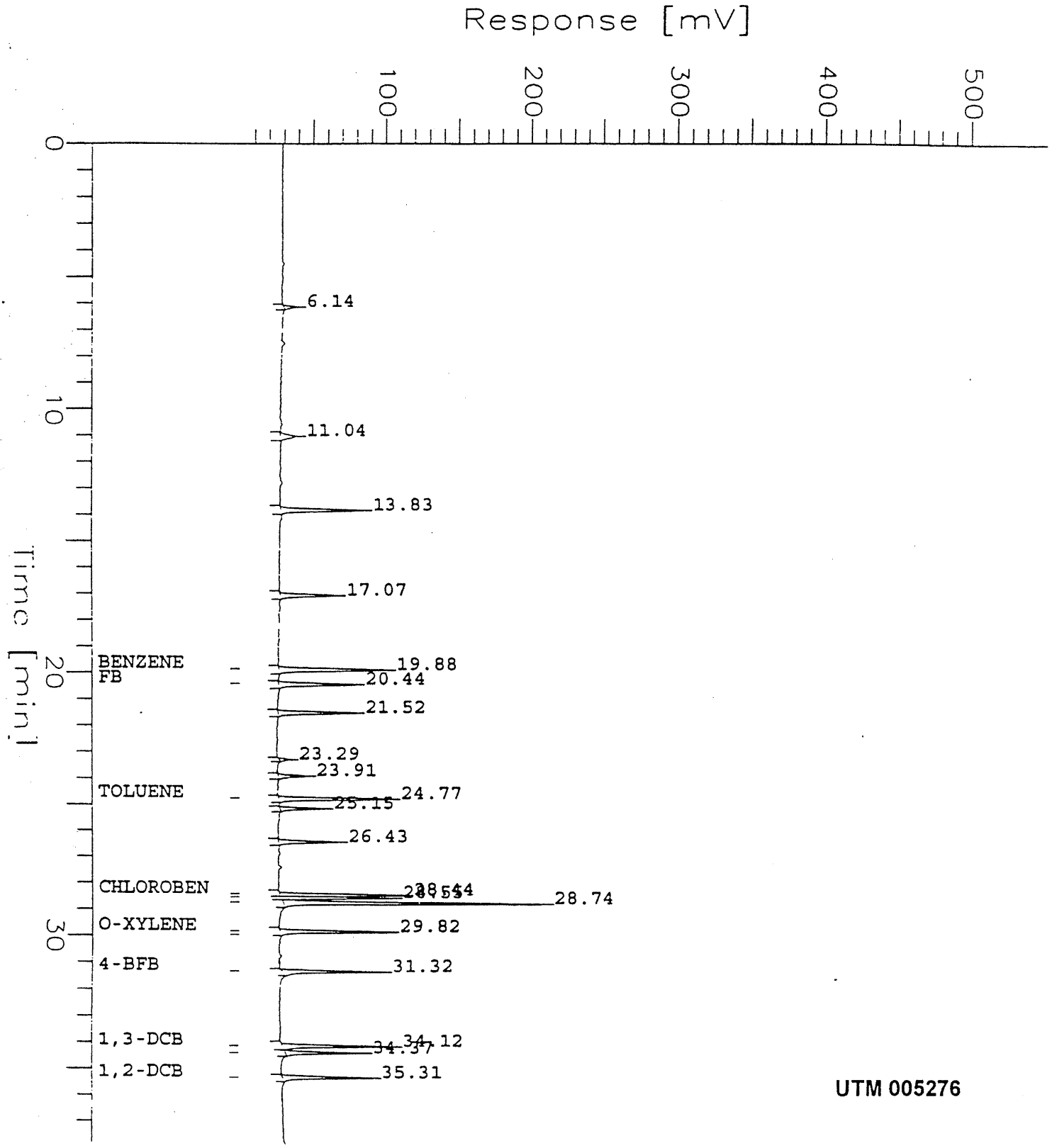
PID-GC#10

Peak #	Component Name	Time (min)	Area (uV*sec)	RA*2 (%R)	Raw Amount	Adjusted Amount	Cal. Range
5	BENZENE	19.880	490941.00	99	49.3886	9.8777	
6	FB	20.439	338243.00	103	51.6228	10.3246	
10	TOLUENE	24.772	431838.00	102	50.9070	10.1814	
13	CHLOROBENZENE	28.438	469384.28	105	52.5803	10.5161	
14	ETHYLBENZENE	28.548	373563.23	97	48.3225	9.6645	
15	M,P-XYLENES	28.737	962223.49	211	105.5345	21.1069	
16	O-XYLENE	29.824	407434.50	101	50.4798	10.0960	
17	4-BFB	31.321	366167.00	0	0.0000	0.0000	
18	1,3-DCB	34.116	404499.99	98	49.1077	9.8215	
19	1,4-DCB	34.371	276981.01	100	49.8456	9.9691	
20	1,2-DCB	35.307	339010.50	111	55.3315	11.0663	

Aromatics

Sample Name : LCS1W 10PPB
'ileName : h:\data\gc10\018A022.raw
thod : GC10.ins
.art Time : 0.00 min End Time : 38.00 min
Scale Factor: -1.0 Plot Offset: 0 mV

Sample #:
Date : 10/19/94 2:13 AM
Time of Injection: 10/19/94 1:35 AM
Low Point : 0.19 mV High Point : 5
Plot Scale: 500.0 mV



UTM 005276

Software Version: 3.3 <4B11>

Sample Name : LCS1W 10PPB
Sample Number:
Operator : AB/DM

Time : 10/19/94 9:35 AM
Study : 8010/8020

Instrument : OI-1/GC10
AutoSampler : NONE
Rack/Vial : 0/0

Channel : B A/D mV Range : 1000

Interface Serial # : 2156575020 Data Acquisition Time: 10/19/94 1:35 AM
Delay Time : 0.00 min.
End Time : 38.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : H:\DATA\GC10\O18B022.RAW
Result File : H:\DATA\GC10\O18B022.RST
Instrument File: H:\DATA\GC10\GC10.ins
Process File : H:\DATA\GC10\ELCD-10
Sample File : H:\DATA\GC10\E10
Sequence File : H:\DATA\GC10\O18P.SEQ

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 3000.000000
Dilution Factor : 1.00

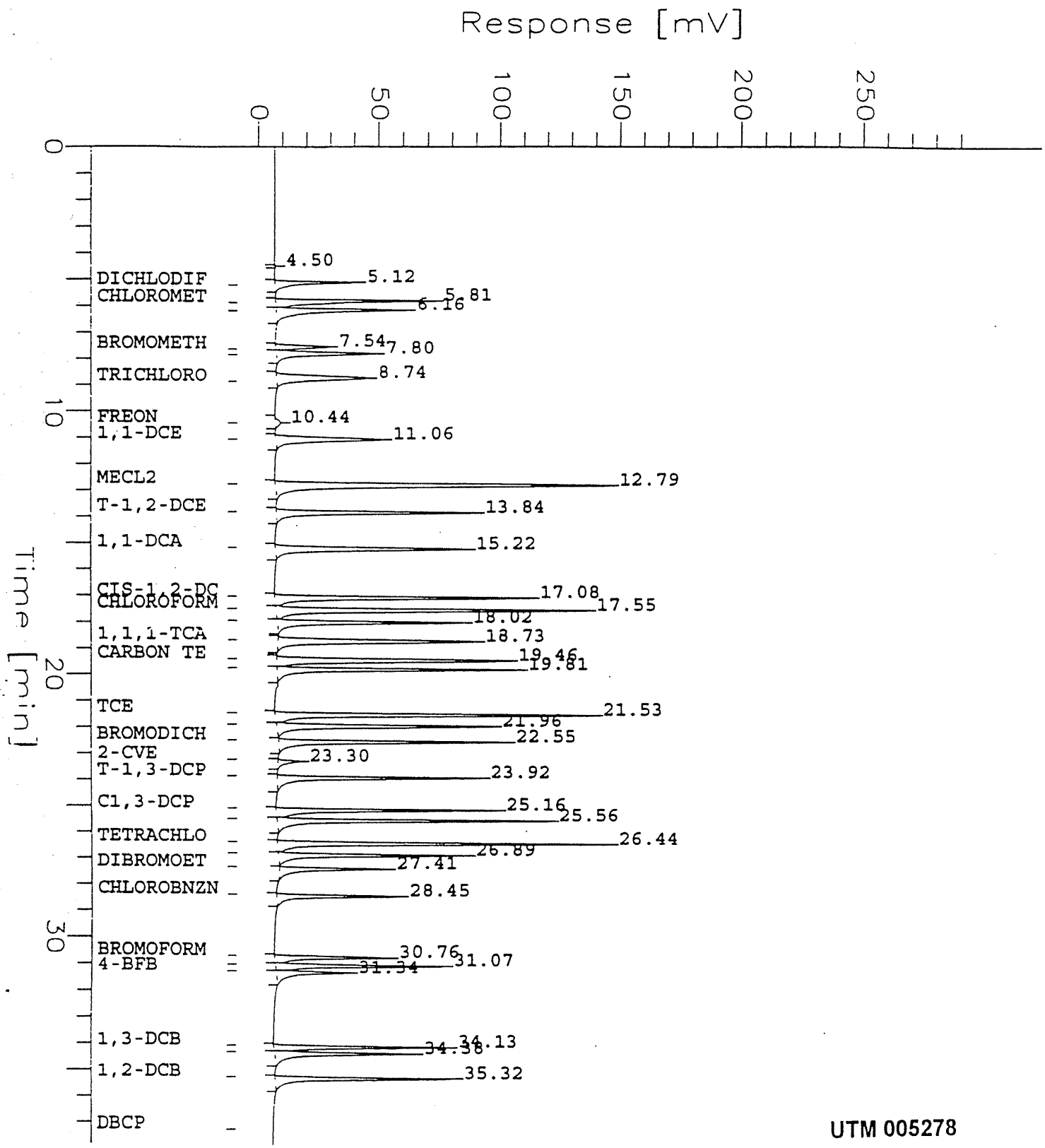
ELCD-GC#10

Peak #	Component Name	Time [min]	Area [uV*sec]	RA*2 (%R)	Raw Amount	Adjusted Amount	Cal. Range
2	DICHLODIFLUOMETHANE	5.118	228950.00	91	45.2533	9.0507	
3	CHLOROMETHANE	5.810	476460.64	90	44.7558	8.9512	
4	VINYL CHLORIDE	6.155	453666.36	88	43.7631	8.7526	
5	BROMOMETHANE	7.544	166145.26	103	51.4696	10.2939	
6	CHLOROETHANE	7.804	371898.74	77	38.7080	7.7416	
7	TRICHLOROFLUOROMETH	8.737	453610.00	86	42.7844	8.5569	
8	1,1-DCE	11.062	524626.50	90	44.9379	8.9876	
9	MECL2	12.793	1311864.00	125	62.6353	12.5271	
10	T-1,2-DCE	13.842	642935.50	92	45.7625	9.1525	
11	1,1-DCA	15.221	711493.00	95	47.7280	9.5456	
12	CIS-1,2-DCE	17.083	792157.61	94	47.2101	9.4420	
13	CHLOROFORM	17.553	1026522.22	99	49.5111	9.9022	
14	BROMOCHLOROMETHAN	18.016	563990.17	0	0.0000	0.0000	
15	1,1,1-TCA	18.731	763270.00	91	45.5496	9.1099	
16	CARBON TETRACHLORIDE	19.460	853701.81	89	44.4949	8.8990	
17	1,2-DCA	19.806	724897.19	99	49.3371	9.8674	
18	TCE	21.527	919622.51	103	51.6879	10.1376	
19	1,2-DCP	21.959	676050.49	99	49.6576	9.9315	
20	BROMODICHLOROMETHAN	22.553	653017.00	101	50.3832	10.0766	
21	2-CVE	23.304	69629.00	40	20.0730	4.0146	
22	T-1,3-DCP	23.922	582472.00	101	50.3737	10.0747	
23	C1,3-DCP	25.160	611815.07	98	49.0188	9.8038	
24	1,1,2-TCA	25.560	786443.93	101	50.5542	10.1108	
25	TETRACHLOROETHENE	26.440	910719.27	98	48.7988	9.7598	
26	DIBROMOCHLOROMETHAN	26.885	519077.73	113	56.6268	11.3254	
27	DIBROMOETHANE	27.410	320234.00	107	53.6242	10.7248	
28	CHLOROBNZN	28.451	332412.00	102	50.7966	10.1593	
29	BROMOFORM	30.761	286130.00	111	55.6378	11.1276	
30	1,1,2,2-TCA	31.072	415601.96	73	36.6596	7.3319	
31	4-BFB	31.336	202432.04	124	62.1287	12.4257	
32	1,3-DCB	34.129	454615.29	94	46.7670	9.3534	
33	1,4-DCB	34.384	429441.71	98	49.1954	9.8391	
34	1,2-DCB	35.320	510431.00	99	49.5178	9.9036	

Aromatics

Sample Name : LCS1W 10PPB
ileName : h:\data\gc10\018B022.raw
thod : GC10.ins
art Time : 0.00 min End Time : 38.00 min
Scale Factor: -1.0 Plot Offset: -8 mV

Sample #:
Date : 10/19/94 2:13 AM
Time of Injection: 10/19/94 1:35 AM
Low Point : -8.30 mV High Point : 2
Plot Scale: 300.0 mV



UTM 005278

Software Version: 3.3 <4B11>
Sample Name : HLA 3284 0.5ML
Sample Number: DJ03284
Operator : AB/DM

Time : 10/19/94 1:25 PM
Study : 8010/8020

Instrument : OI-1/GC10
AutoSampler : NONE
Rack/Vial : 0/0

Channel : B A/D mV Range : 1000

Interface Serial # : 2156575020 Data Acquisition Time: 10/19/94 12:46 PM
Delay Time : 0.00 min.
End Time : 38.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : H:\DATA\GC10\O18B027.RAW
Result File : H:\DATA\GC10\O18B027.RST
Instrument File: H:\DATA\GC10\GC10.ins
Process File : H:\DATA\GC10\ELCD-10
Sample File : H:\DATA\GC10\E10
Sequence File : H:\DATA\GC10\O18P.seq

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 3000.000000
Dilution Factor : 1.00

ELCD-GC#10

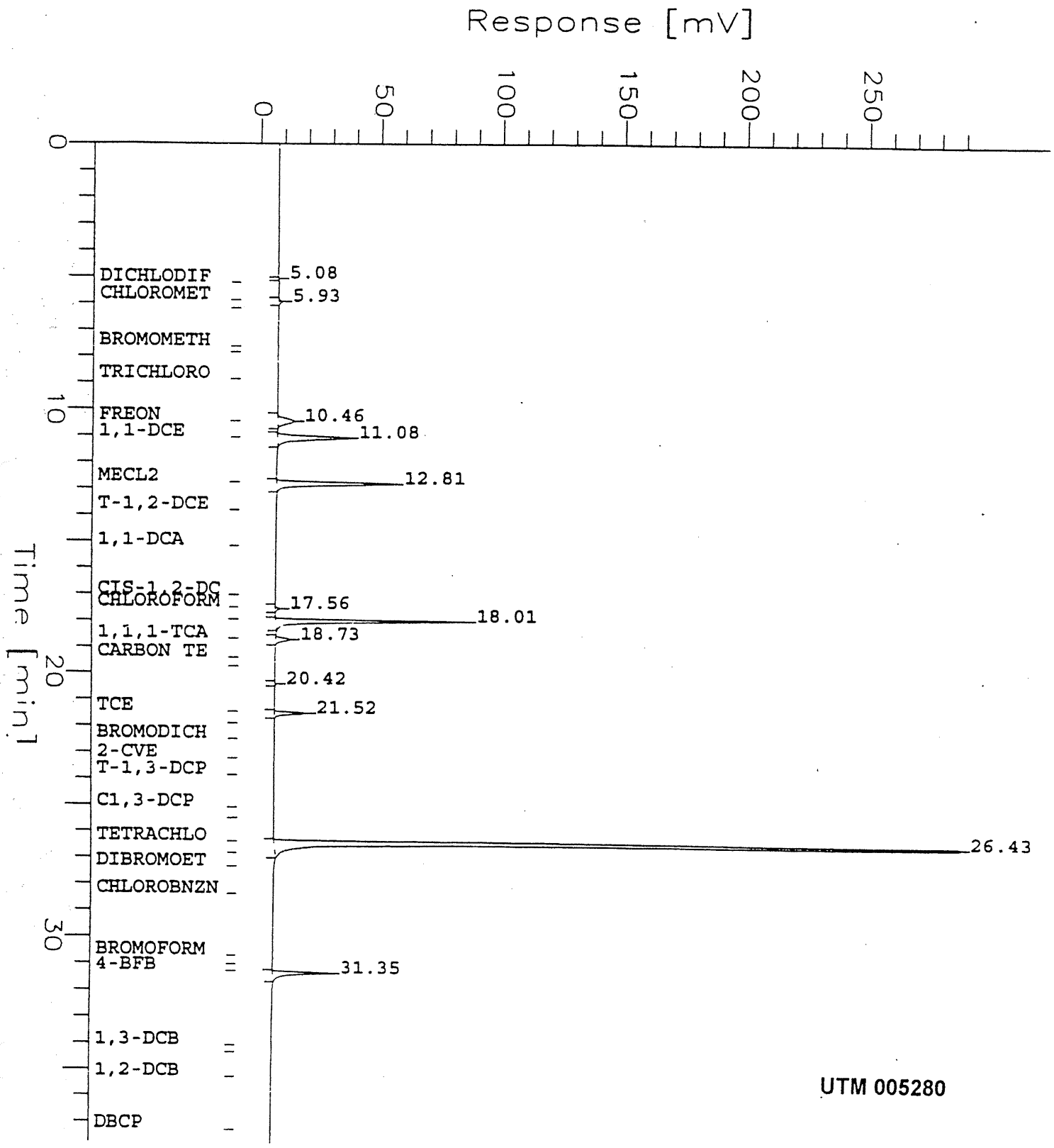
Peak #	Component Name	Time [min]	Area [uV*sec]	RA*2 (%R)	Raw Amount	Adjusted Amount	Cal. Range
2	CHLOROMETHANE	5.933	9272.00	2	0.9129	~~1.8258~~	BDL.
3	FREON	10.455	93751.00	81	40.6895	~~81.3791~~	L.C.
4	1,1-DCE	11.077	296501.00	53	26.6199	53.2398	Y.C.
5	MECL2	12.809	401400.00	40	20.0875	~~40.1749~~	L.C
6	CHLOROFORM	17.557	11352.00	1	0.5739	~~1.1478~~	BDL.
7	BROMOCHLOROMETHAN	18.013	538089.00	0	0.0000	0.0000	
8	1,1,1-TCA	18.727	48876.00	6	3.0572	6.1143	
10	TCE	21.519	79360.00	9	4.6752	9.3504	Y.C
11	TETRACHLOROETHENE	26.434	2716191.00	305	152.5465	305.0929	
12	4-BFB	31.347	158958.50	102	51.1345	102.2691	

(DL x 10)

Aromatics

Sample Name : HLA 3284 0.5ML
FileName : h:\data\gc10\018B027.raw
Method : GC10.ins
Start Time : 0.00 min End Time : 38.00 min
Scale Factor: -1.0 Plot Offset: -8 mV

Sample #: DJ03284
Date : 10/19/94 1:25 PM
Time of Injection: 10/19/94 12:46 PM
Low Point : -7.68 mV High Point : 2
Plot Scale: 300.0 mV



UTM 005280

DISTRIBUTION

Groundwater Monitoring Report
May 1994 through October 1994
Utility Trailer Manufacturing Company
17300 East Chestnut Street
City of Industry, California

January 31, 1995

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Quality Control Reviewer

Ted A. Koelsch, Ph.D.
Registered Geologist - 4741

KJT/TAK/spb/hk/94UTM096.rpt

Software Version: 3.3 <4B11>
Sample Name : HLA 3281 2ML
Sample Number: DJ03281
Operator : AB/DM

Time : 10/19/94 9:31 AM
Study : 8010/8020

Instrument : OI-1/GC10
AutoSampler : NONE
Rack/Vial : 0/0

Channel : B A/D mV Range : 1000

Interface Serial # : 2156575020 Data Acquisition Time: 10/18/94 5:35 PM
Delay Time : 0.00 min.
End Time : 38.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : H:\DATA\GC10\O18B011.RAW
Result File : H:\DATA\GC10\O18B011.RST
Instrument File: H:\DATA\GC10\GC10.ins
Process File : H:\DATA\GC10\ELCD-10
Sample File : H:\DATA\GC10\E10
Sequence File : H:\DATA\GC10\O18P.SEQ

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 3000.000000
Dilution Factor : 1.00

ELCD-GC#10

Peak #	Component Name	Time (min)	Area (uV*sec)	RA*2 (%R)	Raw Amount	Adjusted Amount	Cal. Range
1	DICHLODIFLUOMETHANE	5.074	3689.00	2	0.7768	~~0.3884~~	N.C.
2	CHLOROMETHANE	5.914	64324.00	13	6.4369	~~3.2185~~	
3	BROMOMETHANE	7.672	3590.00	2	1.1848	~~0.5924~~	
4	FREON	10.462	23486.00	21	10.3605	~~5.1802~~	L.C.
5	1,1-DCE	11.088	345197.50	63	31.5001	15.7500	Y.C.
6	MECL2	12.817	495419.00	50	25.1991	~~12.5995~~	L.C
7	1,1-DCA	15.239	138094.00	20	9.8687	4.9343	
8	CIS-1,2-DCE	17.095	16884.00	2	1.0720	0.5360	Y.C.
9	CHLOROFORM	17.560	28255.00	3	1.4518	0.7259	
10	BROMOCHLOROMETHAN	18.016	529407.62	0	0.0000	0.0000	
11	1,1,1-TCA	18.723	599810.38	76	38.1330	19.0665	
12	TCE	21.510	490972.00	59	29.3979	14.6990	Y.C.
13	TETRACHLOROETHENE	26.422	3016375.00	344	172.1833	86.0917	
14	4-BFB	31.339	147799.50	97	48.3245	24.1623	

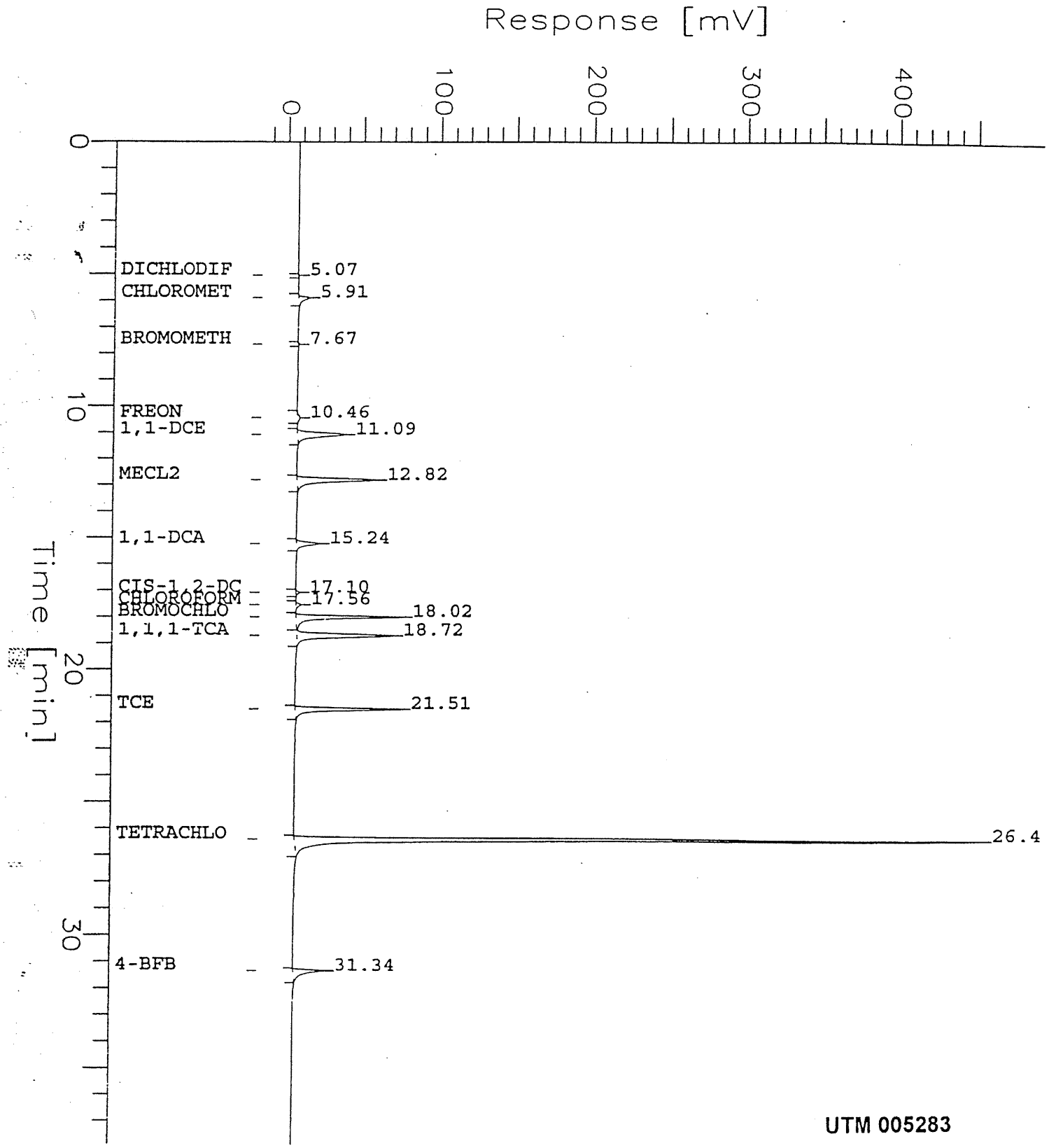
(DL x 2.5)

UTM 005282

Aromatics

Sample Name : HLA 3281 2ML
FileName : H:\DATA\GC10\018B011.raw
Method : GC10.ins
Start Time : 0.00 min End Time : 38.00 min
Scale Factor: 0.0 Plot Offset: -17 mV

Sample #: DJ03281
Date : 10/19/94 9:30 AM
Time of Injection: 10/18/94 5:35 PM
Low Point : -16.88 mV High Point :
Plot Scale: 472.1 mV



Software Version: 3.3 <4B11>

Sample Name : HLA 3282 1ML
Sample Number: DJ03282
Operator : AB/DM

Time : 10/19/94 9:31 AM
Study : 8010/8020

Instrument : OI-1/GC10
AutoSampler : NONE
Rack/Vial : 0/0

Channel : B A/D mV Range : 1000

Interface Serial # : 2156575020 Data Acquisition Time: 10/18/94 6:18 PM
Delay Time : 0.00 min.
End Time : 38.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : H:\DATA\GC10\O18B012.RAW
Result File : H:\DATA\GC10\O18B012.RST
Instrument File: H:\DATA\GC10\GC10.ins
Process File : H:\DATA\GC10\ELCD-10
Sample File : H:\DATA\GC10\E10
Sequence File : H:\DATA\GC10\O18P.SEQ

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 3000.000000
Dilution Factor : 1.00

ELCD-GC#10

Peak #	Component Name	Time [min]	Area [uV*sec]	RA*2 (%R)	Raw Amount	Adjusted Amount	Cal. Range
1	DICHLODIFLUOMETHANE	5.080	6064.00	2	1.2297	~~1.2297~~	N.C
2	CHLOROMETHANE	5.917	16669.50	3	1.6064	~~1.6064~~	
3	TRICHLOROFLUOROMETH	8.744	132173.00	26	12.7897	12.7897	Y.C
4	FREON	10.443	23999.00	20	10.1953	~~10.1953~~	L.C
5	1,1-DCE	11.067	49668.00	9	4.3647	4.3647	Y.C.
6	MECL2	12.795	442662.50	43	21.6830	~~21.6830~~	L.C.
7	1,1-DCA	15.224	13897.50	2	0.9564	~~0.9564~~	BDL.
8	CIS-1,2-DCE	17.077	109699.46	13	6.7072	6.7072	
9	CHLOROFORM	17.545	48810.54	5	2.4153	~~2.4153~~	BDL.
10	BROMOCHLOROMETHAN	18.004	549738.00	0	0.0000	0.0000	
11	1,1,1-TCA	18.720	39910.00	5	2.4435	~~2.4435~~	BDL.
12	TCE	21.520	567259.00	65	32.7097	32.7097	Y.C.
14	TETRACHLOROETHENE	26.438	2989026.00	329	164.3122	164.3122	
15	DIBROMOCHLOROMETHAN	26.889	47259.00	11	5.2892	5.2892	
17	BROMOFORM	30.780	14055.00	6	2.8038	2.8038	
18	4-BFB	31.346	149185.00	94	46.9736	46.9736	

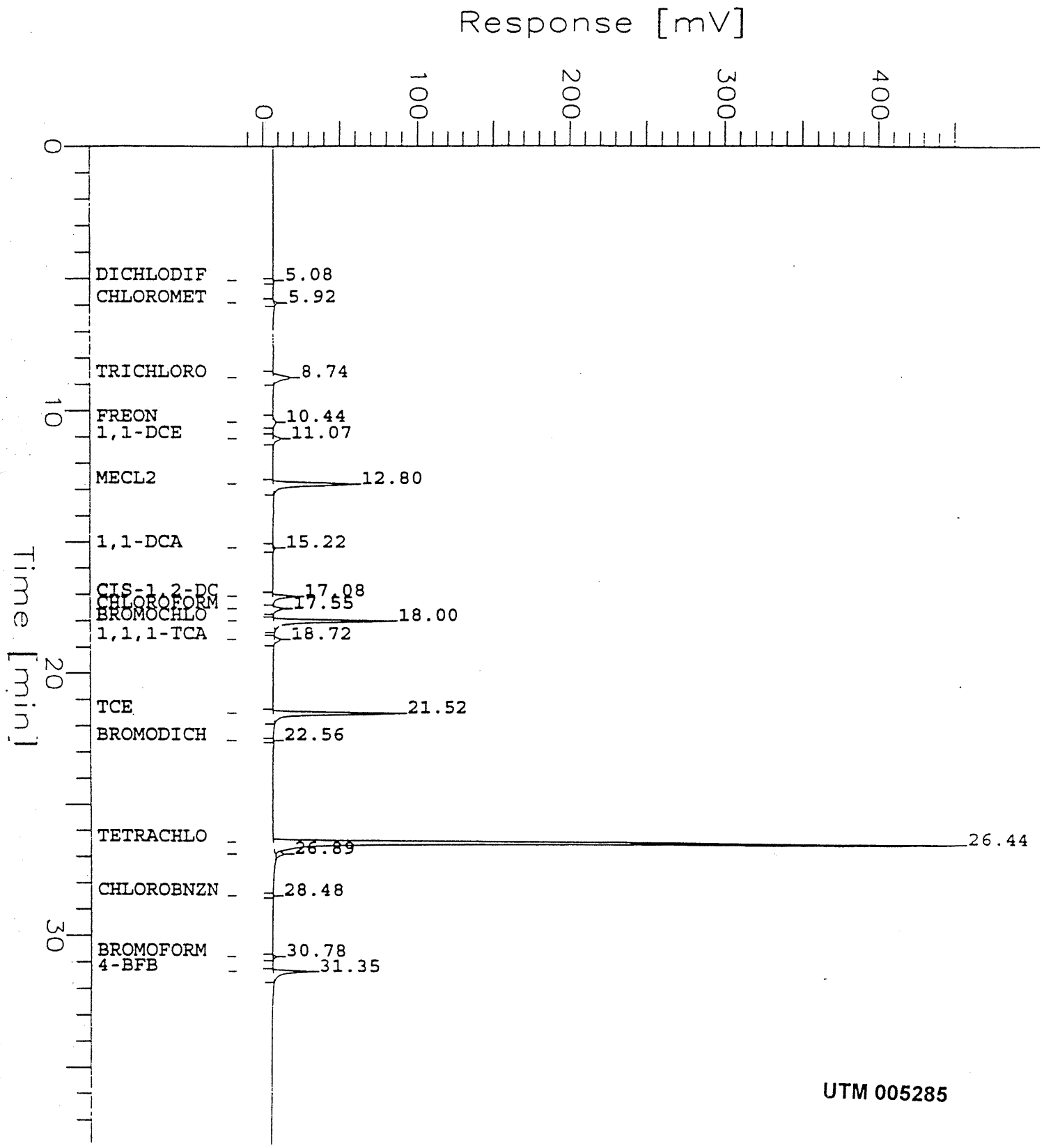
(DL x5)

UTM 005284

Aromatics

Sample Name : HLA 3282 1ML
FileName : H:\DATA\GC10\018B012.raw
Method : GC10.ins
Start Time : 0.00 min End Time : 38.00 min
Scale Factor: 0.0 Plot Offset: -17 mV

Sample #: DJ03282 Page 1 o
Date : 10/19/94 9:31 AM
Time of Injection: 10/18/94 6:18 PM
Low Point : -16.97 mV High Point : 4
Plot Scale: 473.7 mV



UTM 005285