WESTON

L.E. CARPENTER QUARTERLY REPORT

1.0 Groundwater Activities, Observations and Discussion

1.1 Activities

Partial installation of the Enhanced Immiscible Product Recovery System (EIPRS) occurred during this quarter. The pump and collection system for wells RW-2, RW-3, MW-6, MW-10 and MW-11S (see Figure 1 contained in Appendix 1) was installed. This system became operational on 22 October 1991. Approximately 40 gallons of product were collected between 22 October 1991 and 30 October 1991. The stand-alone system for well RW-1 is scheduled to become operational in mid-December 1991.

Water level measurements were made on 14 August, 15 September and 30 October 1991. During the 14 August 1991 water level measurement activities, eight (8) staff gauges were installed at the locations DC-P0 through DC-P5, RP-1 and RP-2 (see Figure 1). At location RP-1 (see Figure 1) a measurement point was installed consisting of a paint mark located on top of the cement wall which borders the Rockaway River at this location. The elevations of the eight (8) staff gauges and the paint mark were subsequently surveyed by a licensed New Jersey surveyor. During all three water level measurement rounds, surface water elevations along the air products drainage ditch and Rockaway River were determined by measuring the vertical distance between the top of the staff gauge (or paint mark) and the water surface.

1.2 Observations

Water level and product thickness observations for the three water level measurement rounds are presented in Tables 1 through 3 contained in Appendix 2. Equipotential maps and floating product isopach maps based on these three data sets are presented in Figures 2 through 12 contained in Appendix 1.

Although the general groundwater flow patterns shown in these maps are similar to those shown in previous quarterly reports, there are some significant differences between the current and previous data sets. For previous quarterly reports, observed water level observations from wells containing floating product were not used in generating equipotential maps because of water table depressions caused by the floating product layer. For the current data sets, the depression was corrected using the following equation:

$$DTW_c = DTW_o - \Delta h_{pr} (SG_{pr})$$ [1]

[1] From Testa, S.M. and Weigardner, D.L., 1991. Restoration of Petroleum Contaminated Aquifers, 269 p. Lewis Publishers, Chelsey, Michigan

where:

DTW_c = depth to water corrected

DTW_o = depth to water observed

Δh_{pr} = thickness of product

SG_{pr} = specific gravity of product

A value for SG_{pr} of 0.86 was calculated by taking the concentration weighted average of the three main components of the product, bis (2-ethylhexyl) phthalate, ethylbenzene and xylene. The corrected water level elevations shown in Table 1 through 3 were used to generate the shallow aquifer zone equipotential maps shown in Figures 1, 3 and 5.

In the first and second quarterly reports for 1991, access problems prohibited water level measurement activities at GEI-1I, 2S, 2I and 3I as well as the former production well. Access to GEI-1I, 2S, 2I and 3I was gained for the current quarterly activities and corresponding the water level data is presented in Tables 1 through 3 and is shown graphically the equipotential maps.

1.3 Discussion of Groundwater Flow Conditions

Figures 1, 3 and 5 show shallow groundwater levels which are somewhat lower than those shown in the previous quarterly report. This pattern is reasonable in that early fall is typically the dry season in this area. Therefore these maps probably represent base flow conditions for the shallow alluvial aquifer.

These maps also show that during this season, the Rockaway River is a losing stream and, as such, it acts as a recharge boundary along the southern perimeter of the site. Note that on Figure 1 the water elevation at RP-2 is 625.49 feet above mean sea level (ft. MSL) and the water table elevation at MW-7 is 623.82 ft. MSL. In the area immediately adjacent to the river, the direction of groundwater flow is toward the site. In the central portion of the site, the general direction of groundwater flow is easterly, parallel to the river. The shallow groundwater flows toward the Air Products drainage ditch in the northeastern area of the site. This is shown most dramatically in Figure 1 and to a lesser extent in Figures 3 and 5. All three data sets show that the observed water levels in MW-13S, on Air Products side of ditch, are consistently higher than those measured along the drainage ditch. This confirms that flow in the ditch is sustained by base flow discharge from the shallow zone, and that the ditch acts as an hydrodynamic barrier to shallow groundwater flow off-site onto the Air Products property.

The floating product isopach maps (Figures 2, 4 and 6) show three main product areas. These areas are most readily seen in Figure 6. Small isolated pockets of product are located at MW-1 and MW-12S. Floating product is centered around MW-10 and MW-11S. A thin portion of this product extends to the vicinity of MW-3. This portion appears as a separate entity around MW-3 in Figure

2 because the product thickness at MW-6 is less than the lowest contour line (0.25 ft). Floating product does not appear at MW-12S in Figures 2 and 4 for the same reason.

These maps continue to support several important conclusions for the site. First, discharge of groundwater to the Rockaway River during this time period was not possible because recharge was occurring along this boundary and the shallow horizontal groundwater flow vectors along the river were oriented toward the site. Second, the Air Products drainage ditch is an hydrodynamic barrier and receives shallow groundwater base flow discharges. Shallow groundwater flow on either side of the ditch is oriented toward the ditch. Since the organics detected at the site are less dense than water, infiltration of the organics into the intermediate and deep aquifer zones is not likely. The intermediate and deep wells did not show elevated concentrations of organics in any of the sampling which has taken place to date. A comparison of the shallow and deep well water levels presented in this report reveals a strong upward-vertical gradient in the eastern portion of the site. Transport of dissolved organics from the shallow to the deep aquifer zone is not possible because the groundwater flow vectors in this area are oriented upward. Even if organics could enter the deep aquifer zone, the most consistent direction of groundwater flow in the deep aquifer zone is oriented westerly, back toward the L.E. Carpenter site and not in an off-site direction. Therefore, contaminants released in the impoundment area would flow toward the central portion of the site, not towards the property boundary. Third, organics released in the impoundment area cannot flow in an off-site direction in the deep aquifer zone.

2.0 Groundwater Sampling Results

Groundwater monitoring wells 1 through 5 were sampled on 19 September 1991. The full analytical package is presented in Appendix 3 of this report. At the time of sampling, MW-1 and MW-3 had .5 feet and .78 feet of immiscible product, respectively. As a result, the detection limits for those samples collected from MW-1 and MW-3 are higher than those used in samples from MW-2, MW-4 and MW-5. A summary of detected compounds by well is as follows:

	MW-1	MW-2	MW-3	MW-4	MW-5
Toluene	ND	ND	ND	ND	.002 ppm (estimated)
Ethylbenzene	40 ppm	.005 ppm	10 ppm	.029 ppm	ND
Xylene	270 ppm	.15 ppm	63 ppm	.13 ppm	.002 ppm (estimated)

WESTON

APPENDIX 1

TABLES

L.E. CARPENTER AND COMPANY SITE, WHARTON, NEW JERSEY
3RD QUARTER 1991
QUARTERLY PROGRESS REPORT

TABLE 1. DEPTH TO WATER, WATER LEVEL ELEVATION AND PRODUCT THICKNESS DATA, MEASURED ON AUGUST 14, 1991, L.E. CARPENTER SITE, WHARTON, NJ.

WELL	MEASURING PT. ELEVATION (FT MSL)	DEPTH TO PRODUCT (FT)	DEPTH TO WATER (FT)	THICKNESS OF PRODUCT (FT)	OBSERVED WATER LEVEL ELEVATION (FT MSL)	CORRECTED WATER LEVEL ELEVATION * (FT MSL)
MW-001	639.18	14.52	14.80	0.28	624.38	624.62
MW-002	633.57		9.46	0.00	624.11	624.11
MW-003	632.56	8.38	8.80	0.42	623.76	624.12
MW-004	632.50		8.40	0.00	624.10	624.10
MW-005	632.42		7.76	0.00	624.66	624.66
MW-006	632.00	8.45	8.50	0.05	623.50	623.54
MW-007	630.68		6.86	0.00	623.82	623.82
MW-008	628.79		3.92	0.00	624.87	624.87
MW-009	630.18		6.72	0.00	623.46	623.46
MW-010	629.96	5.95	7.65	1.70	622.31	623.77
MW-11S	632.96	ALL PRODUCT	ALL PRODUCT	ALL PRODUCT	ALL PRODUCT	ALL PRODUCT
MW-11I	632.82		8.70	0.00	624.12	624.12
MW-11D	632.42		5.96	0.00	626.46	626.46
MW-12S	633.18	7.74	7.90	0.16	625.28	625.42
MW-12I	633.06		8.65	0.00	624.41	624.41
MW-13S	631.23		7.50	0.00	623.73	623.73
MW-13I	630.66		6.71	0.00	623.95	623.95
MW-14S	628.51		4.71	0.00	623.80	623.80
MW-14I	628.23		4.44	0.00	623.79	623.79
MW-14D	628.53		2.19	0.00	626.34	626.34
MW-15S	636.77		12.39	0.00	624.38	624.38
MW-15I	636.66		12.25	0.00	624.41	624.41
MW-16S	634.47		9.56	0.00	624.91	624.91
MW-16I	634.96		10.50	0.00	624.46	624.46
MW-17S	634.74		10.20	0.00	624.54	624.54
MW-17D	634.86		10.25	0.00	624.61	624.61
MW-18S	631.26		6.90	0.00	624.36	624.36
MW-18I	631.04		6.61	0.00	624.43	624.43
MW-18D	630.77		5.10	0.00	625.67	625.67
MW-19	638.88		13.66	0.00	625.22	625.22
MW-20	636.77		11.84	0.00	624.93	624.93
MW-21	628.80		5.24	0.00	623.56	623.56
RW-1	637.38	12.96	12.98	0.02	624.40	624.42
RW-2	631.68	7.80	7.81	0.01	623.87	623.88
RW-3	631.99	7.95	7.96	0.01	624.03	624.04
GEI-1I	630.78		5.58	0.00	625.20	625.20
GEI-2S	637.27		12.82	0.00	624.45	624.45
GEI-2I	637.27		12.37	0.00	624.90	624.90
GEI-3I	639.85		15.05	0.00	624.80	624.80

* Estimated water level elevation calculated using a product specific gravity of 0.86.

TABLE 1 CONTINUED. DEPTH TO WATER, WATER LEVEL ELEVATION AND PRODUCT THICKNESS DATA, MEASURED ON AUGUST 14, 1991, L.E. CARPENTER SITE, WHARTON, NJ.

	ELEVATION OF MEASURING POINT	DEPTH TO WATER	WATER LEVEL ELEVATION
DC-P0	625.73	2.35	623.38
DC-P1	625.26	1.79	623.47
DC-P2	626.79	3.21	623.58
DC-P3	625.22	1.94	623.28
DC-P4	625.10	2.06	623.04
DC-P5	625.16	2.46	622.70
RP-1	629.65	3.66	625.99
RP-2	627.75	2.26	625.49
RP-3	627.11	2.98	624.13
INF. GAL.	630.74	DRY	DRY

TABLE 2. DEPTH TO WATER, WATER LEVEL ELEVATION AND PRODUCT THICKNESS DATA, MEASURED ON SEPTEMBER 15, 1991, L.E. CARPENTER SITE, WHARTON, NJ.

WELL	MEASURING PT. ELEVATION (FT MSL)	DEPTH TO PRODUCT (FT)	DEPTH TO WATER (FT)	THICKNESS OF PRODUCT (FT)	OBSERVED WATER LEVEL ELEVATION (FT MSL)	CORRECTED WATER LEVEL ELEVATION * (FT MSL)
MW-001	639.18	14.90	15.44	0.54	623.74	624.20
MW-002	633.57		9.84	0.00	623.73	623.73
MW-003	632.56	8.72	9.50	0.78	623.06	623.73
MW-004	632.50		8.78	0.00	623.72	623.72
MW-005	632.42		8.25	0.00	624.17	624.17
MW-006	632.00	8.30	9.60	1.30	622.40	623.52
MW-007	630.68		6.78	0.00	623.90	623.90
MW-008	628.79		3.26	0.00	625.53	625.53
MW-009	630.18		5.88	0.00	624.30	624.30
MW-010	629.96	6.21	9.21	3.00	620.75	623.33
MW-11S	632.96	ALL PRODUCT	ALL PRODUCT	ALL PRODUCT	ALL PRODUCT	ALL PRODUCT
MW-11I	632.82		9.10	0.00	623.72	623.72
MW-11D	632.42		6.86	0.00	625.56	625.56
MW-12S	633.18	7.80	8.00	0.20	625.18	625.35
MW-12I	633.06		9.44	0.00	623.62	623.62
MW-13S	631.23		7.50	0.00	623.73	623.73
MW-13I	630.66		7.10	0.00	623.56	623.56
MN-14S	628.51		5.10	0.00	623.41	623.41
MW-14I	628.23		4.88	0.00	623.35	623.35
MW-14D	628.53		3.12	0.00	625.41	625.41
MW-15S	636.77		12.80	0.00	623.97	623.97
MW-15I	636.66		12.68	0.00	623.98	623.98
MW-16S	634.47		10.38	0.00	624.09	624.09
MW-16I	634.96		10.86	0.00	624.10	624.10
MW-17S	634.74		10.59	0.00	624.15	624.15
MW-17D	634.86		10.70	0.00	624.16	624.16
MW-18S	631.26		7.30	0.00	623.96	623.96
MW-18I	631.04		7.20	0.00	623.84	623.84
MW-18D	630.77		5.90	0.00	624.87	624.87
MW-19	638.88		14.32	0.00	624.56	624.56
MW-20	636.77		12.30	0.00	624.47	624.47
MW-21	628.80		5.61	0.00	623.19	623.19
RW-1	637.38		13.58	0.00	623.80	623.80
RW-2	631.68	8.20	8.30	0.10	623.38	623.47
RW-3	631.99		8.32	0.00	623.67	623.67
GEI-1I	630.78		5.58	0.00	625.20	625.20
GEI-2S	637.27		12.82	0.00	624.45	624.45
GEI-2I	637.27		12.37	0.00	624.90	624.90
GEI-3I	639.85		15.05	0.00	624.80	624.80

* Estimated equilibrium water level elevation calculated using a product specific gravity of 0.86.

TABLE 2 CONTINUED. DEPTH TO WATER, WATER LEVEL ELEVATION AND PRODUCT THICKNESS DATA, MEASURED ON SEPTEMBER 15, 1991, L.E. CARPENTER SITE, WHARTON, NJ.

MEASURING POINT	ELEVATION OF MEASURING POINT	DEPTH TO WATER	WATER LEVEL ELEVATION
DC-P0	625.73	2.41	623.32
DC-P1	625.26	1.95	623.31
DC-P2	626.79	3.24	623.55
DC-P3	625.22	2.00	623.22
DC-P4	625.10	2.20	622.90
DC-P5	625.16	2.29	622.87
RP-1	629.65	3.45	626.20
RP-2	627.75	2.15	625.60
RP-3	627.11	2.91	624.20
INF. GAL.	630.74	DRY	DRY

TABLE 3. DEPTH TO WATER, WATER LEVEL ELEVATION AND PRODUCT THICKNESS DATA, MEASURED ON OCTOBER 30, 1991, L.E. CARPENTER SITE, WHARTON, NJ.

WELL	MEASURING PT. ELEVATION (FT MSL)	DEPTH TO PRODUCT (FT)	DEPTH TO WATER (FT)	THICKNESS OF PRODUCT (FT)	OBSERVED WATER LEVEL ELEVATION (FT MSL)	CORRECTED WATER LEVEL ELEVATION * (FT MSL)
MW-001	639.18	14.70	15.45	0.75	623.73	624.38
MW-002	633.57		9.70	0.00	623.87	623.87
MW-003	632.56	8.62	9.00	0.38	623.56	623.89
MW-004	632.50		8.58	0.00	623.92	623.92
MW-005	632.42		8.00	0.00	624.42	624.42
MW-006	632.00	8.80	9.11	0.31	622.89	623.16
MW-007	630.68	7.05	7.25	0.20	623.43	623.60
MW-008	628.79		5.20	0.00	623.59	623.59
MW-009	630.18		5.43	0.00	624.75	624.75
MW-010	629.96	6.16	9.06	2.90	620.90	623.39
MW-11S	632.96	8.92	ALL PRODUCT	ALL PRODUCT	ALL PRODUCT	ALL PRODUCT
MW-11I	632.82		8.92	0.00	623.90	623.90
MW-11D	632.42		6.51	0.00	625.91	625.91
MW-12S	633.18	7.62	9.70	2.08	623.48	625.27
MW-12I	633.06		9.22	0.00	623.84	623.84
MW-13S	631.23		7.50	0.00	623.73	623.73
MW-13I	630.66		7.00	0.00	623.66	623.66
MN-14S	628.51		4.92	0.00	623.59	623.59
MW-14I	628.23		4.94	0.00	623.29	623.29
MW-14D	628.53		2.70	0.00	625.83	625.83
MW-15S	636.77		12.90	0.00	623.87	623.87
MW-15I	636.66		12.49	0.00	624.17	624.17
MW-16S	634.47		9.83	0.00	624.64	624.64
MW-16I	634.96		10.32	0.00	624.64	624.64
MW-17S	634.74		10.45	0.00	624.29	624.29
MW-17D	634.86		10.54	0.00	624.32	624.32
MW-18S	631.26		7.12	0.00	624.14	624.14
MW-18I	631.04		6.84	0.00	624.20	624.20
MW-18D	630.77		5.60	0.00	625.17	625.17
MW-19	638.88		13.91	0.00	624.97	624.97
MW-20	636.77		12.12	0.00	624.65	624.65
MW-21	628.80		5.43	0.00	623.37	623.37
RW-1	637.38	13.22	13.35	0.13	624.03	624.14
RW-2	631.68	8.00	8.20	0.20	623.48	623.65
RW-3	631.99		8.25	0.00	623.74	623.74
GEI-1I	630.78		6.91	0.00	623.87	623.87
GEI-2S	637.27		12.82	0.00	624.45	624.45
GEI-2I	637.27		12.98	0.00	624.29	624.29
GEI-3I	639.85		15.00	0.00	624.85	624.85

* Estimated water level elevation calculated using a product specific gravity of 0.86.

TABLE 3 CONTINUED. DEPTH TO WATER, WATER LEVEL ELEVATION AND PRODUCT THICKNESS DATA, MEASURED ON OCTOBER 30, 1991, L.E. CARPENTER SITE, WHARTON, NJ.

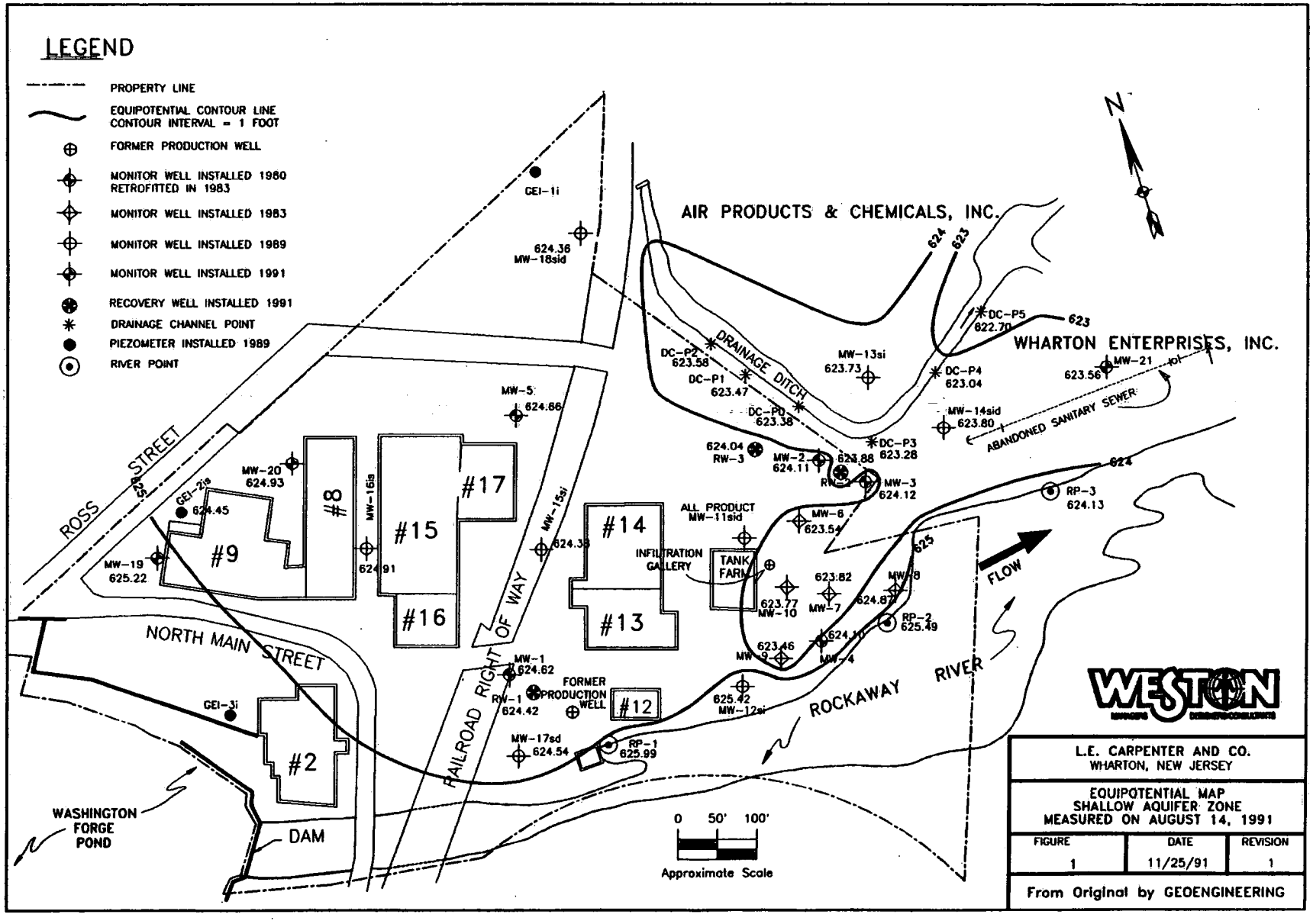
MEASURING POINT	ELEVATION OF MEASURING POINT	DEPTH TO WATER	WATER LEVEL ELEVATION
DC-P0	625.73	2.38	623.35
DC-P1	625.26	1.83	623.43
DC-P2	626.79	3.19	623.60
DC-P3	625.22	1.95	623.27
DC-P4	625.10	2.08	623.02
DC-P5	625.16	2.19	622.97
RP-1	629.65	3.42	626.23
RP-2	627.75	1.96	625.79
RP-3	627.11	2.83	624.28
INF. GAL.	630.74	DRY	

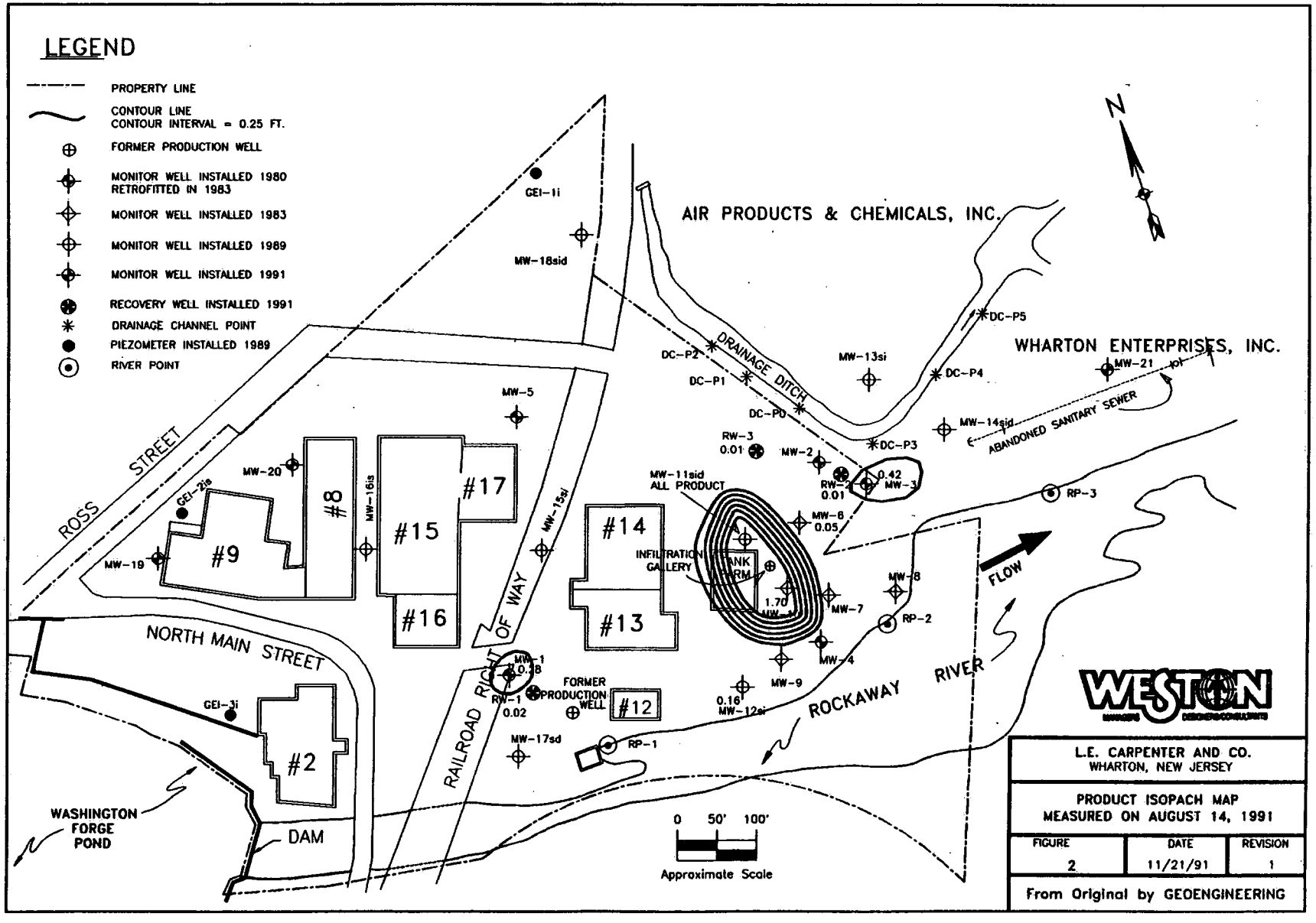
WESTON

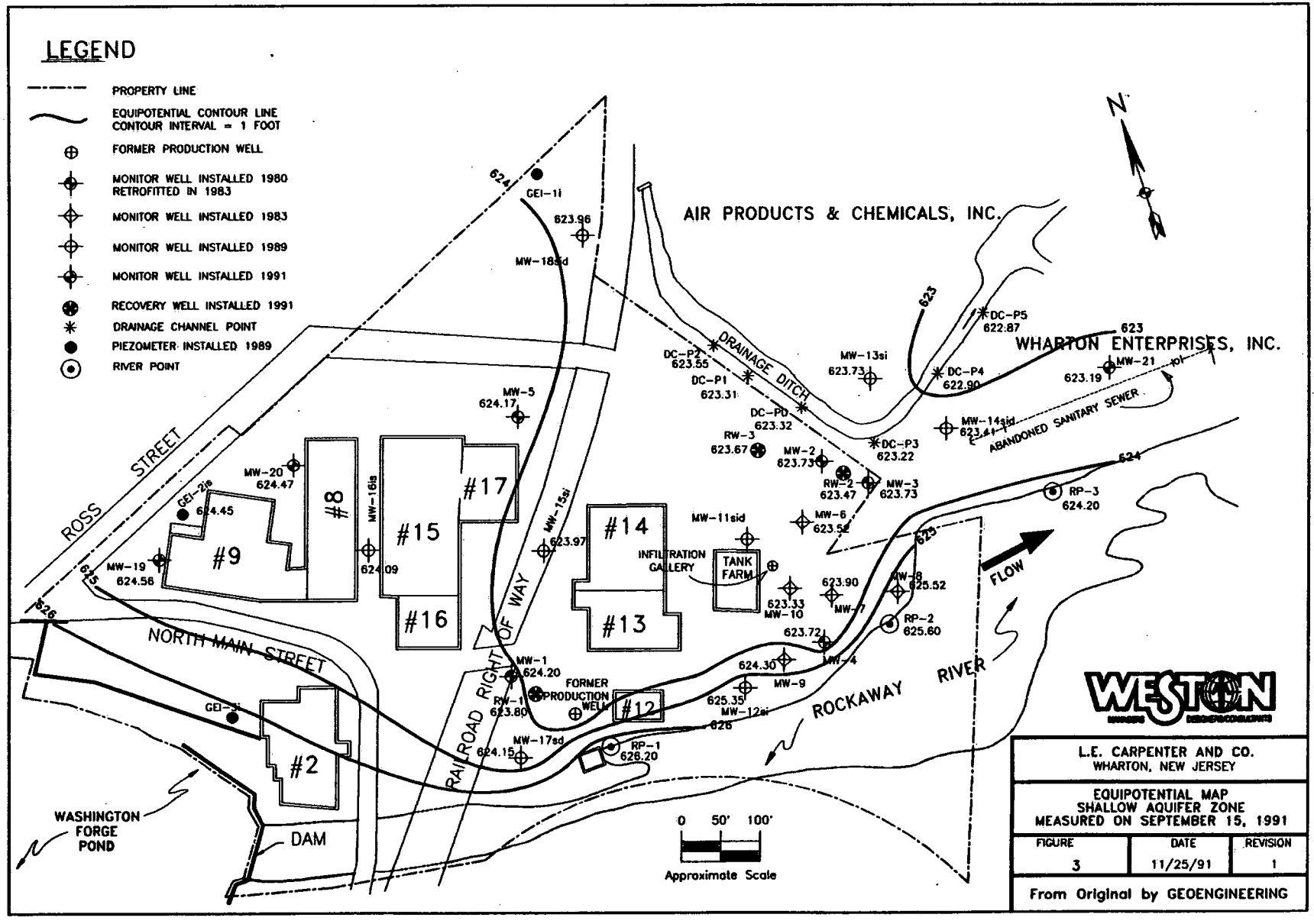
APPENDIX 2

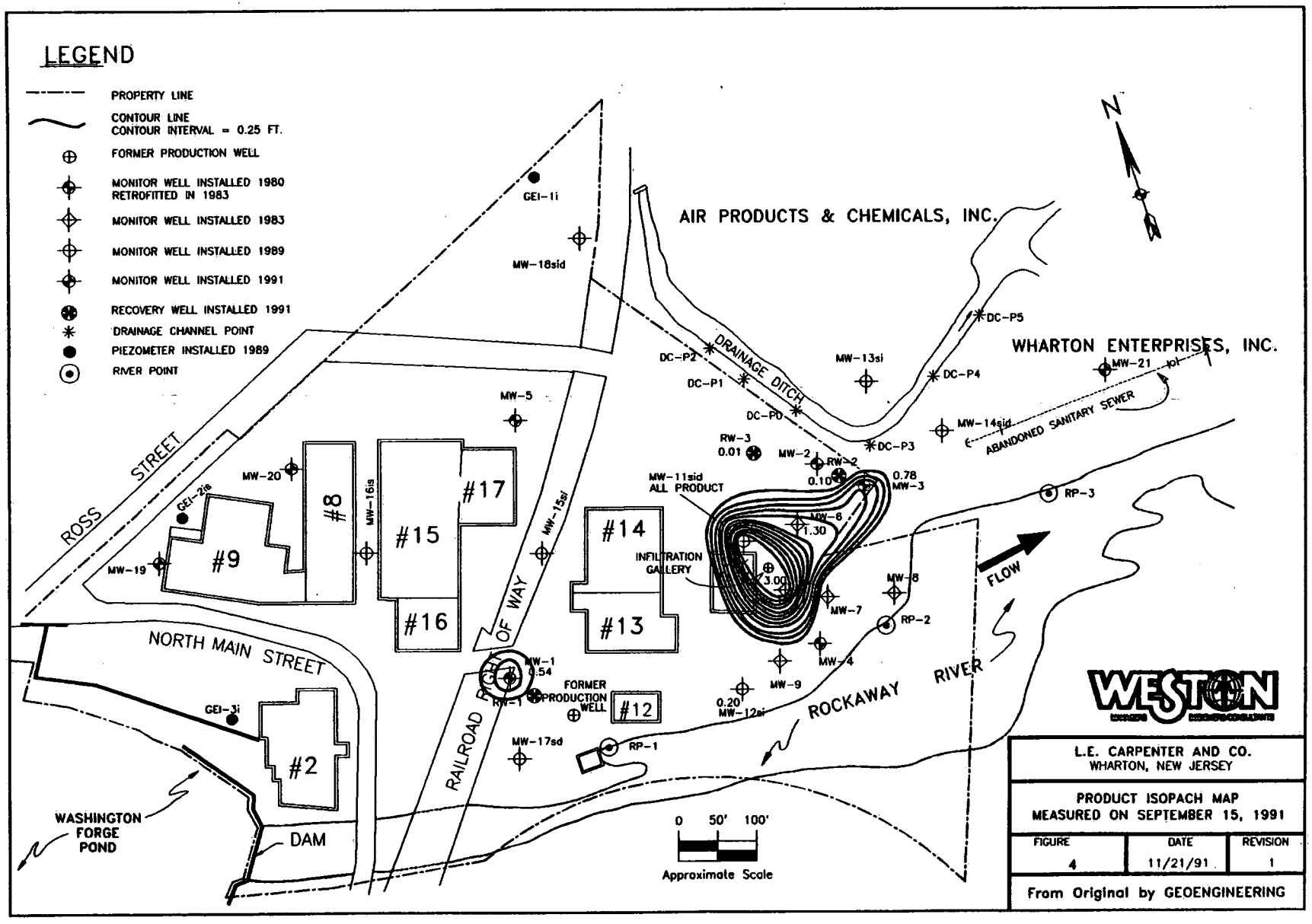
FIGURES

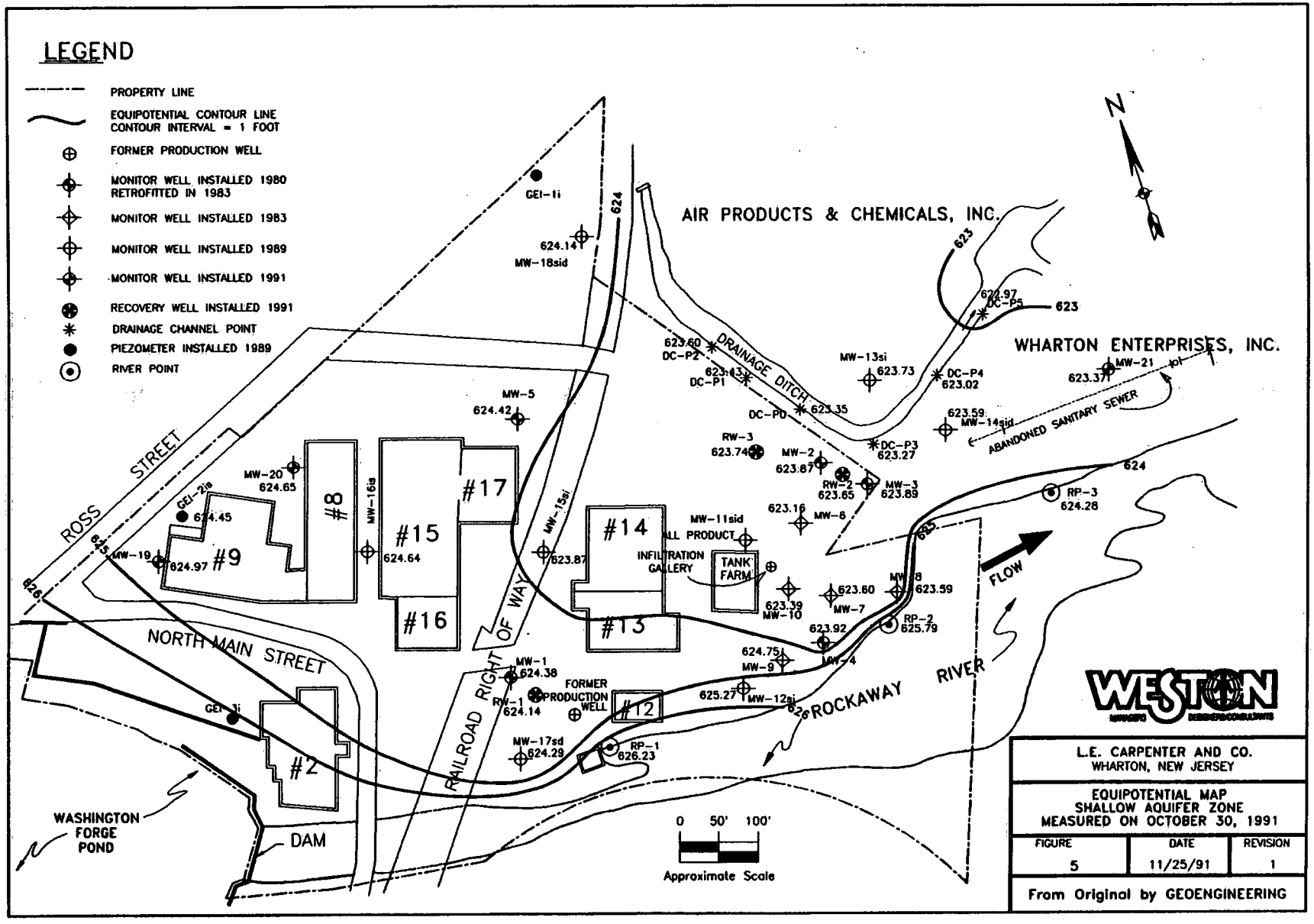
L.E. CARPENTER AND COMPANY SITE, WHARTON, NEW JERSEY
3RD QUARTER 1991
QUARTERLY PROGRESS REPORT

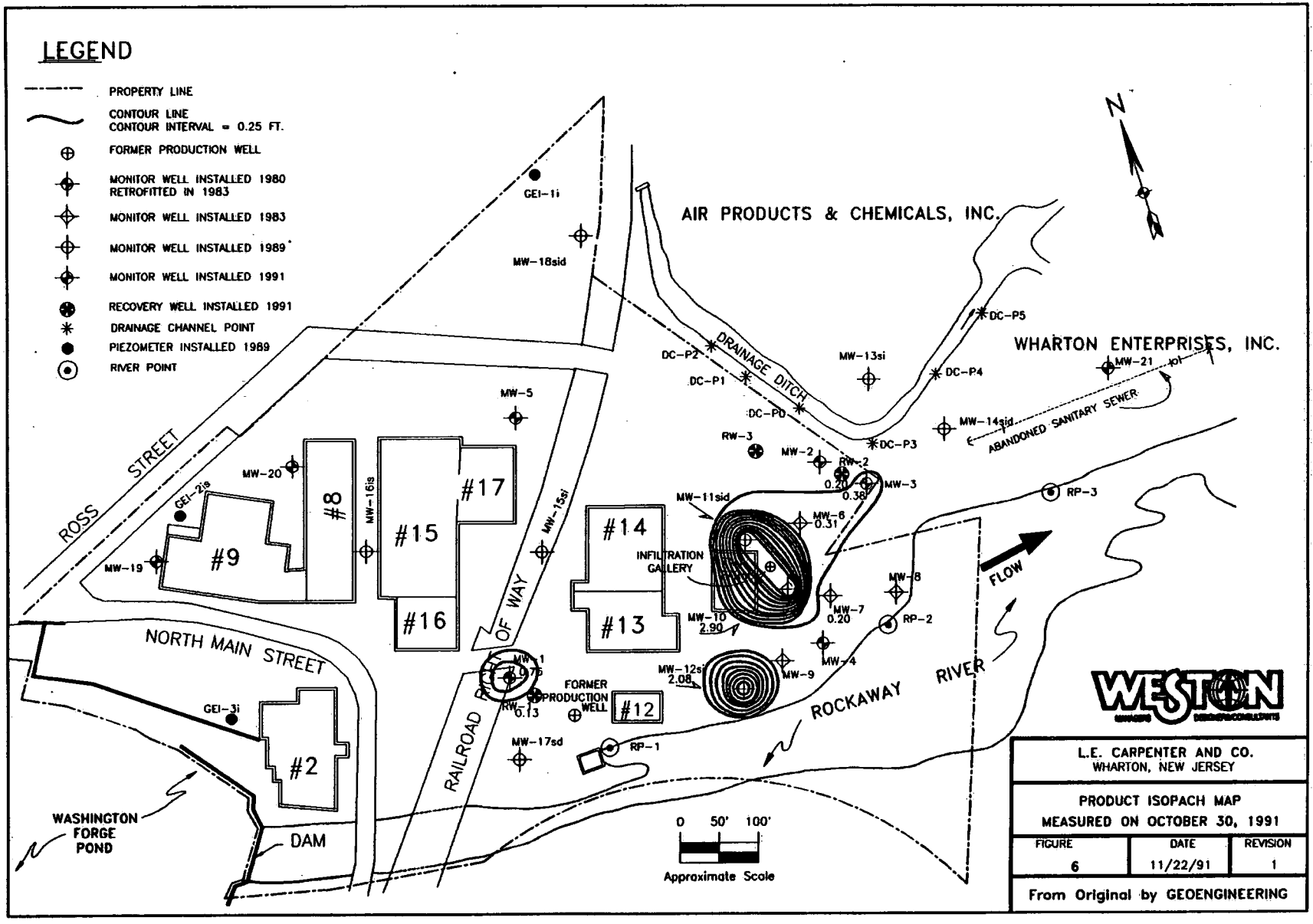

LEGEND
PROPERTY LINE
EQUIPOTENTIAL CONTOUR LINE
CONTOUR INTERVAL = 1 FOOT
FORMER PRODUCTION WELL
MONITOR WELL INSTALLED 1980
RETROFITTED IN 1983
MONITOR WELL INSTALLED 1983
MONITOR WELL INSTALLED 1989
MONITOR WELL INSTALLED 1991
RECOVERY WELL INSTALLED 1991
DRAINAGE CHANNEL POINT
PIEZOMETER INSTALLED 1989
RIVER POINT
AIR PRODUCTS & CHEMICALS, INC.
WHARTON ENTERPRISES, INC.
ROSS STREET
NORTH MAIN STREET
RAILROAD RIGHT OF WAY
DRAINAGE DITCH
ABANDONED SANITARY SEWER
ROCKAWAY RIVER
FLOW
WASHINGTON FORGE POND
DAM
#2
#8
#9
#12
#13
#14
#15
#16
#17
TANK FARM
INFILTRATION GALLERY
ALL PRODUCT MW-11sid
FORMER PRODUCTION WELL
GEI-1i
624.36 MW-18sid
MW-5 624.66
MW-20 624.93
GEI-2is 624.45
MW-19 625.22
MW-16is 624.91
MW-15si 624.39
GEI-3i
MW-1 624.62
RW-1 624.42
MW-17sd 624.54
RP-1 625.99
625.42 MW-12si
623.46 MW-9
624.11 MW-4
RP-2 625.49
623.77 MW-10
623.82 MW-7
624.87 MW-8
MW-6 623.54
MW-3 624.12
624.04 RW-3
MW-2 624.11
623.88
DC-P2 623.58
DC-P1 623.47
DC-P0 623.38
DC-P3 623.28
DC-P4 623.04
DC-P5 622.70
MW-13si 623.73
MW-14sid 623.80
MW-21 623.56
RP-3 624.13
624
623
625
0 50' 100'
Approximate Scale
N
WESTON
L.E. CARPENTER AND CO.
WHARTON, NEW JERSEY
EQUIPOTENTIAL MAP
SHALLOW AQUIFER ZONE
MEASURED ON AUGUST 14, 1991
FIGURE 1
DATE 11/25/91
REVISION 1
From Original by GEOENGINEERING


LEGEND
PROPERTY LINE
CONTOUR LINE
CONTOUR INTERVAL = 0.25 FT.
FORMER PRODUCTION WELL
MONITOR WELL INSTALLED 1980
RETROFITTED IN 1983
MONITOR WELL INSTALLED 1983
MONITOR WELL INSTALLED 1989
MONITOR WELL INSTALLED 1991
RECOVERY WELL INSTALLED 1991
DRAINAGE CHANNEL POINT
PIEZOMETER INSTALLED 1989
RIVER POINT
AIR PRODUCTS & CHEMICALS, INC.
WHARTON ENTERPRISES, INC.
N
GEI-1i
MW-18sid
DRAINAGE DITCH
DC-P5
DC-P2
DC-P1
DC-P0
DC-P4
DC-P3
MW-13si
MW-21
MW-14sid
ABANDONED SANITARY SEWER
MW-5
RW-3
0.01
MW-2
RW-2
0.01
0.42
MW-3
MW-6
0.05
RP-3
MW-11sid
ALL PRODUCT
INFILTRATION GALLERY
TANK FARM
1.70
MW-7
MW-8
RP-2
FLOW
MW-4
MW-9
0.16
MW-12si
ROCKAWAY RIVER
ROSS STREET
MW-20
GEI-2is
MW-19
#9
#8
MW-16is
#15
#17
#16
MW-15si
#14
#13
RAILROAD RIGHT OF WAY
NORTH MAIN STREET
MW-1
0.18
RW-1
0.02
FORMER PRODUCTION WELL
#12
GEI-3i
#2
MW-17sd
RP-1
WASHINGTON FORGE POND
DAM
0 50' 100'
Approximate Scale
WESTON
L.E. CARPENTER AND CO.
WHARTON, NEW JERSEY
PRODUCT ISOPACH MAP
MEASURED ON AUGUST 14, 1991
FIGURE
2
DATE
11/21/91
REVISION
1
From Original by GEOENGINEERING


LEGEND
PROPERTY LINE
EQUIPOTENTIAL CONTOUR LINE
CONTOUR INTERVAL = 1 FOOT
FORMER PRODUCTION WELL
MONITOR WELL INSTALLED 1980
RETROFITTED IN 1983
MONITOR WELL INSTALLED 1983
MONITOR WELL INSTALLED 1989
MONITOR WELL INSTALLED 1991
RECOVERY WELL INSTALLED 1991
DRAINAGE CHANNEL POINT
PIEZOMETER INSTALLED 1989
RIVER POINT
AIR PRODUCTS & CHEMICALS, INC.
WHARTON ENTERPRISES, INC.
N
ROSS STREET
NORTH MAIN STREET
DRAINAGE DITCH
ABANDONED SANITARY SEWER
RAILROAD RIGHT OF WAY
ROCKAWAY RIVER
FLOW
WASHINGTON FORGE POND
DAM
#2
#8
#9
#12
#13
#14
#15
#16
#17
INFILTRATION GALLERY
TANK FARM
FORMER PRODUCTION WELL
GEI-1i 623.96
MW-18sd
MW-5 624.17
MW-20 624.47
GEI-2ie 624.45
MW-19 624.56
MW-16is 624.09
MW-15si 623.97
MW-1 624.20
RW-1 623.80
MW-17sd 624.15
RP-1 626.20
GEI-3i
MW-11sid
INFILTRATION GALLERY
TANK FARM
623.33 MW-10
623.90 MW-7
MW-6 623.52
RW-2 623.47
MW-2 623.73
MW-3 623.73
RW-3 623.67
DC-P2 623.55
DC-P1 623.31
DC-P0 623.32
DC-P3 623.22
DC-P4 622.90
DC-P5 622.87
MW-13si 623.73
MW-14sid 623.41
MW-21 623.19
RP-3 624.20
RP-2 625.60
MW-8 625.52
623.72 MW-4
624.30 MW-9
625.35 MW-12si
0 50' 100'
Approximate Scale
WESTON
L.E. CARPENTER AND CO.
WHARTON, NEW JERSEY
EQUIPOTENTIAL MAP
SHALLOW AQUIFER ZONE
MEASURED ON SEPTEMBER 15, 1991
FIGURE 3
DATE 11/25/91
REVISION 1
From Original by GEOENGINEERING


LEGEND
PROPERTY LINE
CONTOUR LINE
CONTOUR INTERVAL = 0.25 FT.
FORMER PRODUCTION WELL
MONITOR WELL INSTALLED 1980 RETROFITTED IN 1983
MONITOR WELL INSTALLED 1983
MONITOR WELL INSTALLED 1989
MONITOR WELL INSTALLED 1991
RECOVERY WELL INSTALLED 1991
DRAINAGE CHANNEL POINT
PIEZOMETER INSTALLED 1989
RIVER POINT
N
AIR PRODUCTS & CHEMICALS, INC.
WHARTON ENTERPRISES, INC.
DRAINAGE DITCH
ABANDONED SANITARY SEWER
ROSS STREET
NORTH MAIN STREET
RAILROAD RIGHT OF WAY
ROCKAWAY RIVER
FLOW
WASHINGTON FORGE POND
DAM
#2
#8
#9
#12
#13
#14
#15
#16
#17
GEI-1i
MW-18sid
MW-5
MW-20
GEI-2i
MW-19
MW-16is
MW-15sl
GEI-3i
MW-17sd
RP-1
RP-2
RP-3
MW-1
0.54
RW-1
FORMER PRODUCTION WELL
MW-11sid
ALL PRODUCT
INFILTRATION GALLERY
3.00
1.30
0.78
MW-3
MW-6
MW-7
MW-8
MW-4
MW-9
0.20
MW-12si
RW-3
0.01
MW-2
RW-2
0.10
MW-13si
DC-P1
DC-P2
DC-P0
DC-P3
DC-P4
DC-P5
MW-14sid
MW-21
0 50' 100'
Approximate Scale
WESTON
L.E. CARPENTER AND CO.
WHARTON, NEW JERSEY
PRODUCT ISOPACH MAP
MEASURED ON SEPTEMBER 15, 1991
FIGURE
4
DATE
11/21/91
REVISION
1
From Original by GEOENGINEERING


LEGEND
PROPERTY LINE
EQUIPOTENTIAL CONTOUR LINE
CONTOUR INTERVAL = 1 FOOT
FORMER PRODUCTION WELL
MONITOR WELL INSTALLED 1980
RETROFITTED IN 1983
MONITOR WELL INSTALLED 1983
MONITOR WELL INSTALLED 1989
MONITOR WELL INSTALLED 1991
RECOVERY WELL INSTALLED 1991
DRAINAGE CHANNEL POINT
PIEZOMETER INSTALLED 1989
RIVER POINT
AIR PRODUCTS & CHEMICALS, INC.
WHARTON ENTERPRISES, INC.
N
ROSS STREET
NORTH MAIN STREET
RAILROAD RIGHT OF WAY
DRAINAGE DITCH
ABANDONED SANITARY SEWER
ROCKAWAY RIVER
FLOW
WASHINGTON FORGE POND
DAM
#2
#8
#9
#12
#13
#14
#15
#16
#17
TANK FARM
INFILTRATION GALLERY
FORMER PRODUCTION WELL
GEI-1i
624.14
MW-18sid
MW-5
624.42
MW-20
624.65
GEI-2s
624.45
MW-19
624.97
MW-16is
624.64
MW-15si
623.87
MW-11sid
MW-10
623.39
MW-7
623.60
MW-8
623.59
RP-2
625.79
RP-3
624.28
MW-4
623.92
MW-9
624.75
MW-12si
625.27
RP-1
626.23
MW-17sd
624.29
MW-1
624.38
RW-1
624.14
GEI-3i
RW-3
623.74
MW-2
623.87
RW-2
623.65
MW-3
623.89
MW-6
623.16
DC-P0
623.35
DC-P1
623.43
DC-P2
623.60
DC-P3
623.27
DC-P4
623.02
DC-P5
624.97
MW-13si
623.73
MW-14sid
623.59
MW-21
623.37
623
624
625
626
0 50' 100'
Approximate Scale
WESTON
L.E. CARPENTER AND CO.
WHARTON, NEW JERSEY
EQUIPOTENTIAL MAP
SHALLOW AQUIFER ZONE
MEASURED ON OCTOBER 30, 1991
FIGURE
5
DATE
11/25/91
REVISION
1
From Original by GEOENGINEERING

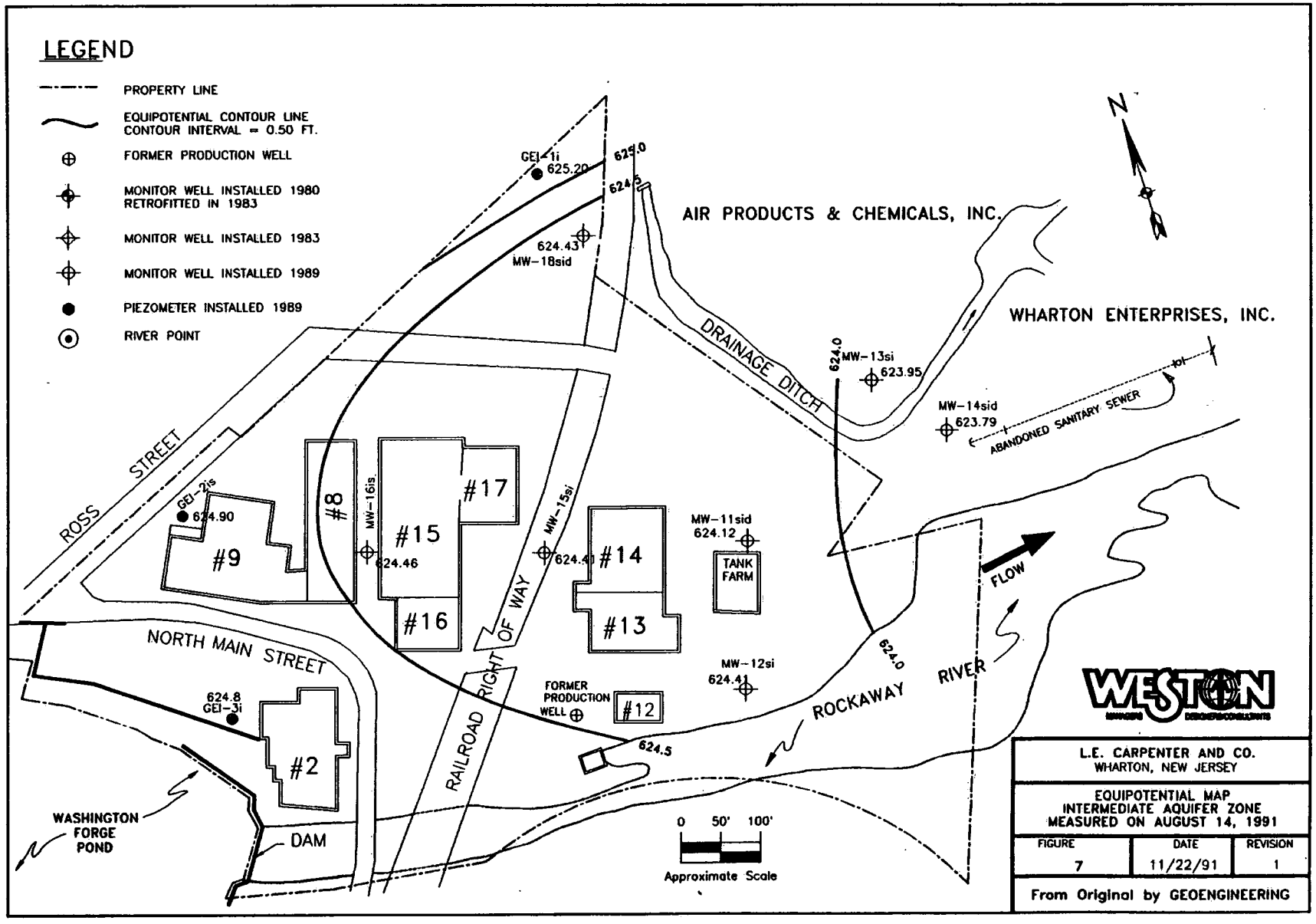


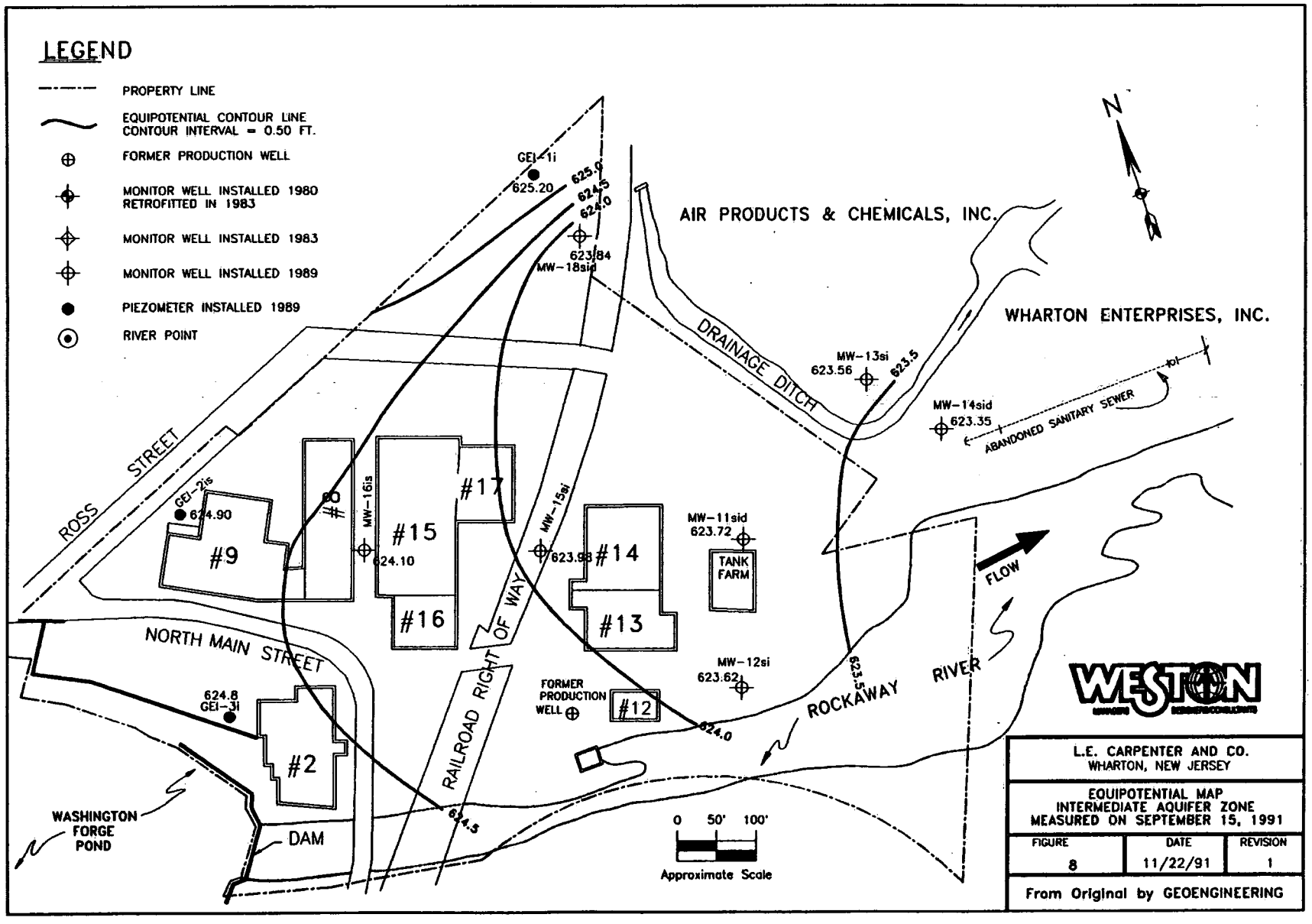
L.E. CARPENTER AND CO.
WHARTON, NEW JERSEY

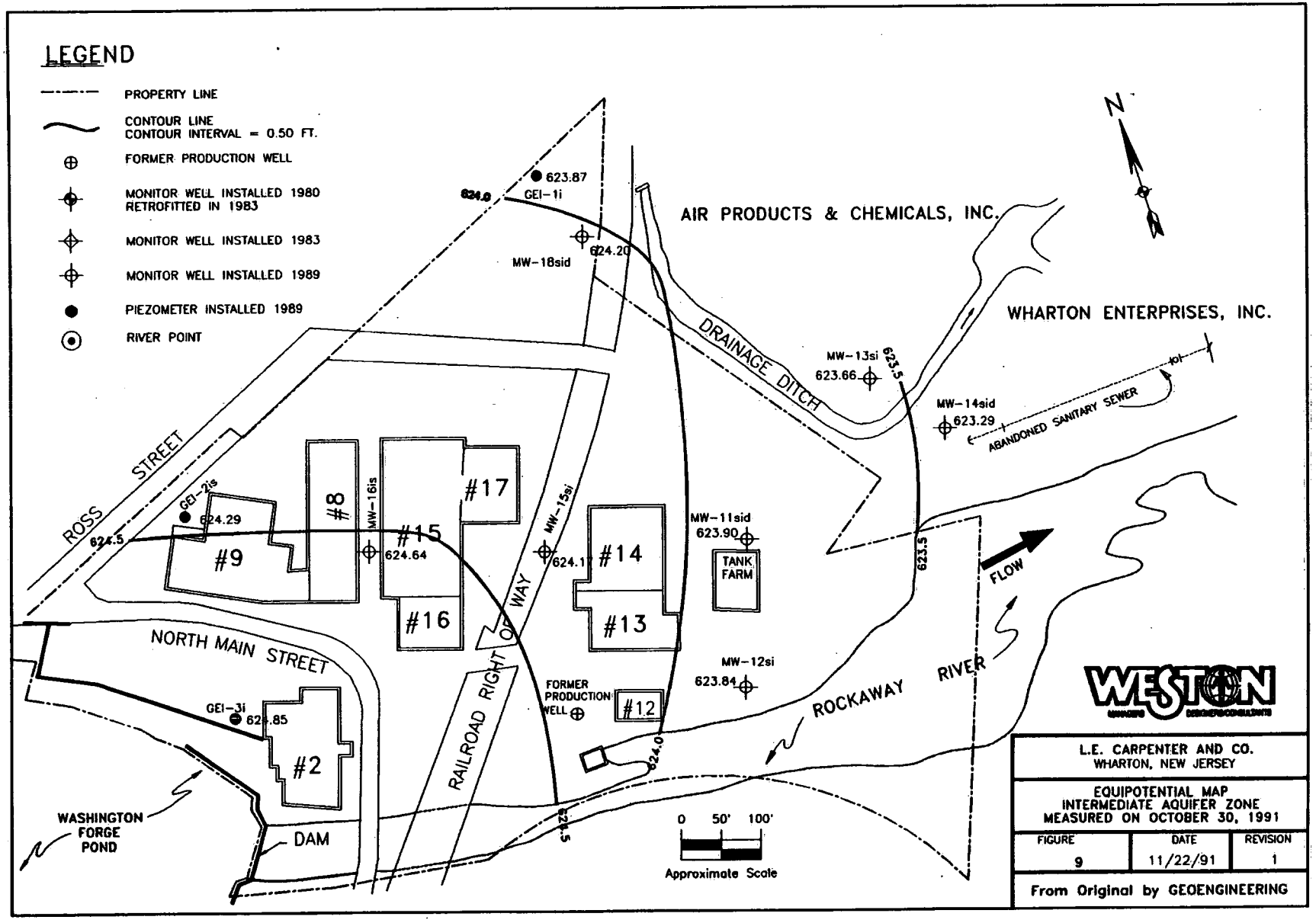
PRODUCT ISOPACH MAP
MEASURED ON OCTOBER 30, 1991

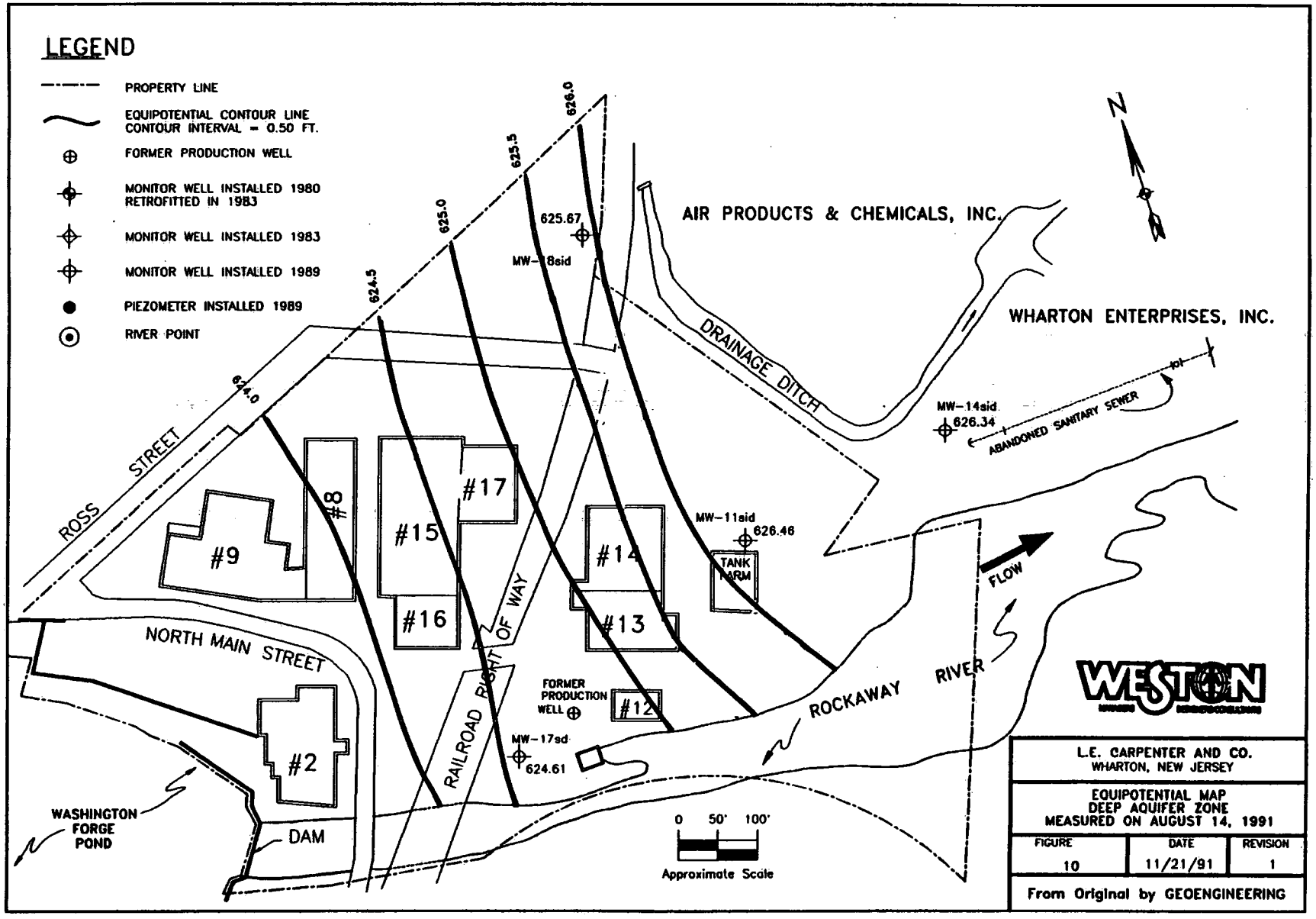
FIGURE	DATE	REVISION
6	11/22/91	1

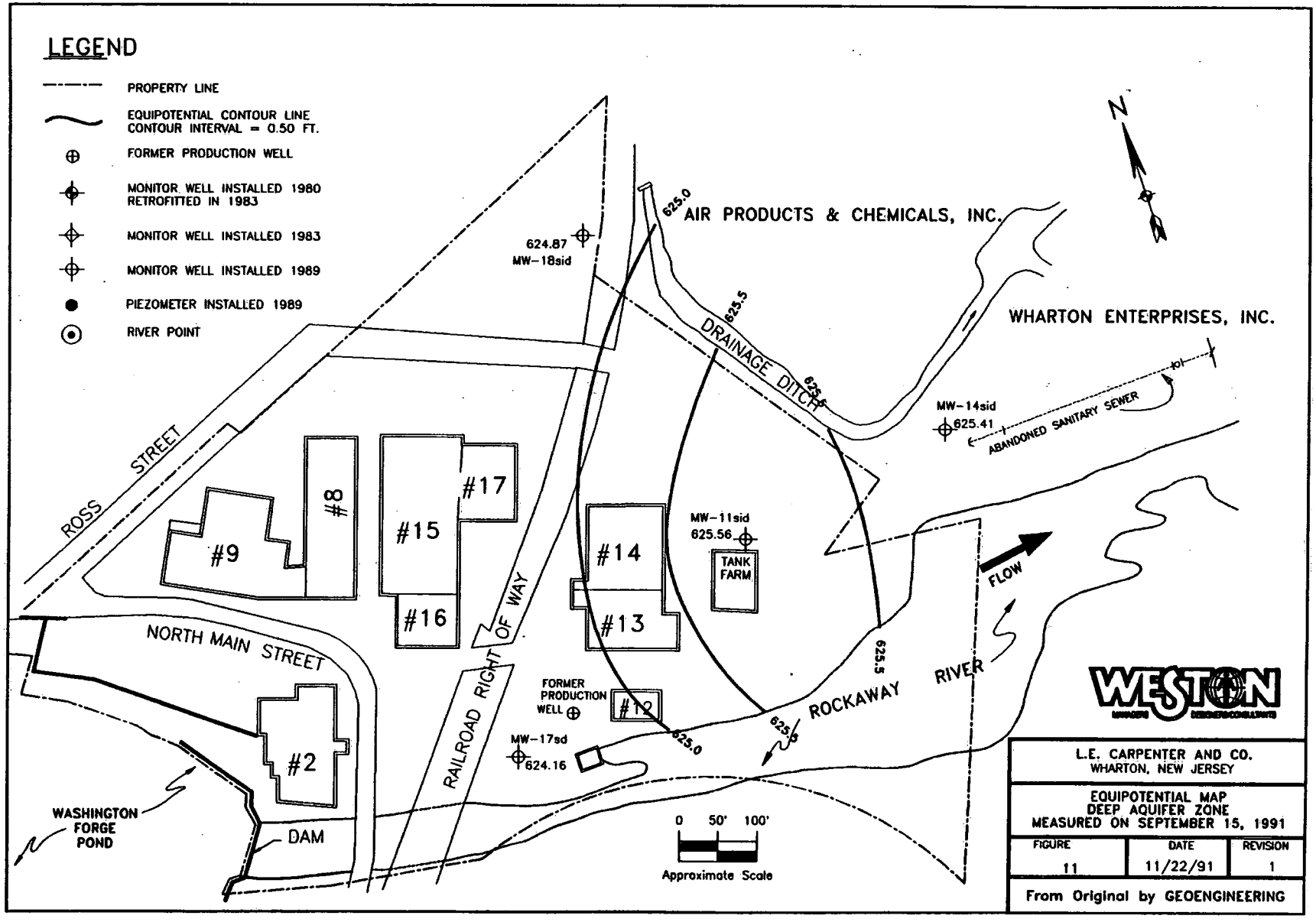
From Original by GEOENGINEERING

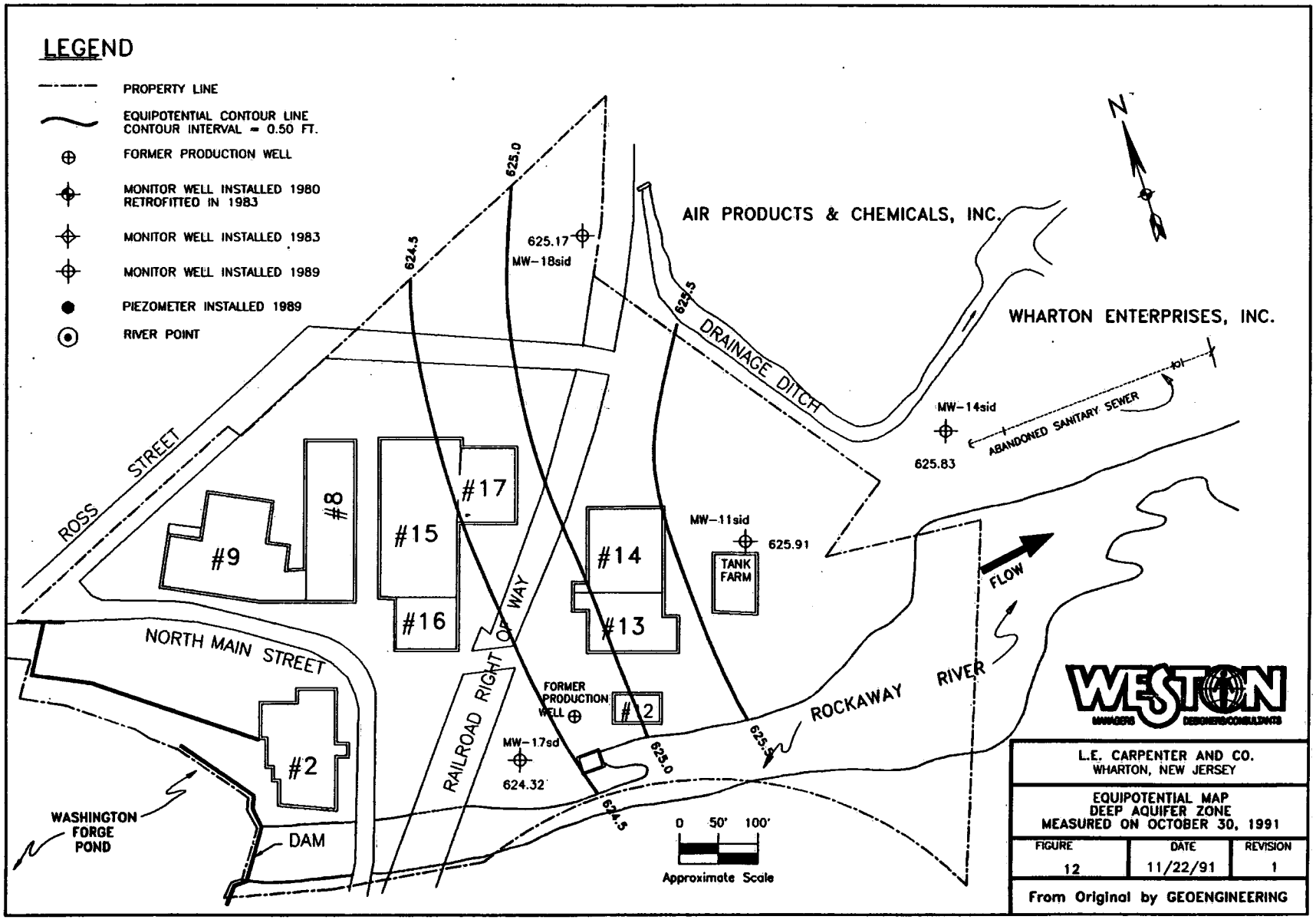

LEGEND
PROPERTY LINE
EQUIPOTENTIAL CONTOUR LINE
CONTOUR INTERVAL = 0.50 FT.
FORMER PRODUCTION WELL
MONITOR WELL INSTALLED 1980
RETROFITTED IN 1983
MONITOR WELL INSTALLED 1983
MONITOR WELL INSTALLED 1989
PIEZOMETER INSTALLED 1989
RIVER POINT
N
AIR PRODUCTS & CHEMICALS, INC.
WHARTON ENTERPRISES, INC.
GEI-1i
625.20
625.0
624.5
624.43
MW-18sid
DRAINAGE DITCH
624.0
MW-13si
623.95
MW-14sid
623.79
ABANDONED SANITARY SEWER
ROSS STREET
GEI-2is
624.90
#9
#8
MW-16is
#15
624.46
#17
#16
MW-15si
624.41
#14
#13
MW-11sid
624.12
TANK FARM
FLOW
NORTH MAIN STREET
624.8
GEI-3i
#2
RAILROAD RIGHT OF WAY
FORMER PRODUCTION WELL
#12
MW-12si
624.41
624.0
ROCKAWAY RIVER
624.5
WASHINGTON FORGE POND
DAM
0 50' 100'
Approximate Scale
WESTON
L.E. CARPENTER AND CO.
WHARTON, NEW JERSEY
EQUIPOTENTIAL MAP
INTERMEDIATE AQUIFER ZONE
MEASURED ON AUGUST 14, 1991
FIGURE
7
DATE
11/22/91
REVISION
1
From Original by GEOENGINEERING


LEGEND
PROPERTY LINE
EQUIPOTENTIAL CONTOUR LINE
CONTOUR INTERVAL = 0.50 FT.
FORMER PRODUCTION WELL
MONITOR WELL INSTALLED 1980
RETROFITTED IN 1983
MONITOR WELL INSTALLED 1983
MONITOR WELL INSTALLED 1989
PIEZOMETER INSTALLED 1989
RIVER POINT
N
AIR PRODUCTS & CHEMICALS, INC.
WHARTON ENTERPRISES, INC.
GEI-1i
625.20
625.0
624.5
624.0
623.84
MW-18sid
DRAINAGE DITCH
MW-13si
623.56
623.5
MW-14sid
623.35
ABANDONED SANITARY SEWER
ROSS STREET
GEI-2is
624.90
#9
#10
MW-16is
#15
624.10
#17
#16
MW-15si
623.98
#14
#13
MW-11sid
623.72
TANK FARM
FLOW
NORTH MAIN STREET
RAILROAD RIGHT OF WAY
FORMER PRODUCTION WELL
#12
MW-12si
623.62
623.5
624.0
ROCKAWAY RIVER
624.8
GEI-3i
#2
624.5
WASHINGTON FORGE POND
DAM
0 50' 100'
Approximate Scale
WESTON
L.E. CARPENTER AND CO.
WHARTON, NEW JERSEY
EQUIPOTENTIAL MAP
INTERMEDIATE AQUIFER ZONE
MEASURED ON SEPTEMBER 15, 1991
FIGURE
8
DATE
11/22/91
REVISION
1
From Original by GEOENGINEERING


LEGEND
PROPERTY LINE
CONTOUR LINE
CONTOUR INTERVAL = 0.50 FT.
FORMER PRODUCTION WELL
MONITOR WELL INSTALLED 1980
RETROFITTED IN 1983
MONITOR WELL INSTALLED 1983
MONITOR WELL INSTALLED 1989
PIEZOMETER INSTALLED 1989
RIVER POINT
N
AIR PRODUCTS & CHEMICALS, INC.
WHARTON ENTERPRISES, INC.
623.87
GEI-1i
624.0
624.20
MW-18sid
DRAINAGE DITCH
MW-13si
623.66
623.5
MW-14sid
623.29
ABANDONED SANITARY SEWER
ROSS STREET
GEI-2is
624.29
624.5
#9
#8
MW-16is
#15
624.64
#17
#16
MW-15si
624.1
#14
#13
MW-11sid
623.90
TANK FARM
FLOW
NORTH MAIN STREET
RAILROAD RIGHT OF WAY
FORMER PRODUCTION WELL
#12
MW-12si
623.84
ROCKAWAY RIVER
GEI-3i
624.85
#2
WASHINGTON FORGE POND
DAM
624.5
0 50' 100'
Approximate Scale
WESTON
L.E. CARPENTER AND CO.
WHARTON, NEW JERSEY
EQUIPOTENTIAL MAP
INTERMEDIATE AQUIFER ZONE
MEASURED ON OCTOBER 30, 1991
FIGURE 9
DATE 11/22/91
REVISION 1
From Original by GEOENGINEERING


LEGEND
PROPERTY LINE
EQUIPOTENTIAL CONTOUR LINE
CONTOUR INTERVAL = 0.50 FT.
FORMER PRODUCTION WELL
MONITOR WELL INSTALLED 1980
RETROFITTED IN 1983
MONITOR WELL INSTALLED 1983
MONITOR WELL INSTALLED 1989
PIEZOMETER INSTALLED 1989
RIVER POINT
N
AIR PRODUCTS & CHEMICALS, INC.
WHARTON ENTERPRISES, INC.
DRAINAGE DITCH
ABANDONED SANITARY SEWER
MW-14sid
626.34
MW-11sid
626.46
TANK FARM
625.67
MW-18sid
626.0
625.5
625.0
624.5
624.0
ROSS STREET
NORTH MAIN STREET
#9
#8
#15
#17
#16
#14
#13
#12
#2
RAILROAD RIGHT OF WAY
FORMER PRODUCTION WELL
MW-17sd
624.61
ROCKAWAY RIVER
FLOW
WASHINGTON FORGE POND
DAM
0 50' 100'
Approximate Scale
WESTON
L.E. CARPENTER AND CO.
WHARTON, NEW JERSEY
EQUIPOTENTIAL MAP
DEEP AQUIFER ZONE
MEASURED ON AUGUST 14, 1991
FIGURE
10
DATE
11/21/91
REVISION
1
From Original by GEOENGINEERING


LEGEND
PROPERTY LINE
EQUIPOTENTIAL CONTOUR LINE
CONTOUR INTERVAL = 0.50 FT.
FORMER PRODUCTION WELL
MONITOR WELL INSTALLED 1980
RETROFITTED IN 1983
MONITOR WELL INSTALLED 1983
MONITOR WELL INSTALLED 1989
PIEZOMETER INSTALLED 1989
RIVER POINT
N
AIR PRODUCTS & CHEMICALS, INC.
WHARTON ENTERPRISES, INC.
624.87
MW-18sid
625.0
625.5
DRAINAGE DITCH
MW-14sid
625.41
ABANDONED SANITARY SEWER
ROSS STREET
#9
#8
#15
#17
#16
#14
#13
MW-11sid
625.56
TANK FARM
FLOW
NORTH MAIN STREET
RAILROAD RIGHT OF WAY
FORMER PRODUCTION WELL
#12
MW-17sd
624.16
ROCKAWAY RIVER
#2
WASHINGTON FORGE POND
DAM
0 50' 100'
Approximate Scale
WESTON
L.E. CARPENTER AND CO.
WHARTON, NEW JERSEY
EQUIPOTENTIAL MAP
DEEP AQUIFER ZONE
MEASURED ON SEPTEMBER 15, 1991
FIGURE 11
DATE 11/22/91
REVISION 1
From Original by GEOENGINEERING


LEGEND
PROPERTY LINE
EQUIPOTENTIAL CONTOUR LINE
CONTOUR INTERVAL = 0.50 FT.
FORMER PRODUCTION WELL
MONITOR WELL INSTALLED 1980
RETROFITTED IN 1983
MONITOR WELL INSTALLED 1983
MONITOR WELL INSTALLED 1989
PIEZOMETER INSTALLED 1989
RIVER POINT
N
AIR PRODUCTS & CHEMICALS, INC.
WHARTON ENTERPRISES, INC.
625.17
MW-18sid
625.0
624.5
625.5
DRAINAGE DITCH
MW-14sid
625.83
ABANDONED SANITARY SEWER
ROSS STREET
#9
#8
#15
#17
#16
#14
#13
MW-11sid
625.91
TANK FARM
FLOW
NORTH MAIN STREET
RAILROAD RIGHT OF WAY
FORMER PRODUCTION WELL
#12
MW-17sd
624.32
ROCKAWAY RIVER
#2
WASHINGTON FORGE POND
DAM
0 50' 100'
Approximate Scale
WESTON
MANAGERS DESIGNERS/CONSULTANTS
L.E. CARPENTER AND CO.
WHARTON, NEW JERSEY
EQUIPOTENTIAL MAP
DEEP AQUIFER ZONE
MEASURED ON OCTOBER 30, 1991
FIGURE 12
DATE 11/22/91
REVISION 1
From Original by GEOENGINEERING

WESTON

APPENDIX 3

ANALYTICAL DATA PACKAGE

L.E. CARPENTER AND COMPANY SITE, WHARTON, NEW JERSEY
3RD QUARTER 1991
QUARTERLY PROGRESS REPORT

Roy F. Weston, Inc. - Lionville Laboratory
VOA ANALYTICAL DATA PACKAGE FOR
WSI-LE CARPENTER

DATE RECEIVED: 09/20/91 RFW LOT # :9109L758

CLIENT ID	RFW #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
MW-1	001	W	91LVK168	09/19/91	N/A	09/26/91
MW-2	002	W	91LVK170	09/19/91	N/A	09/28/91
MW-2	002 D1	W	91LVK169	09/19/91	N/A	09/27/91
MW-3	003	W	91LVK169	09/19/91	N/A	09/27/91
MW-4	004	W	91LVK170	09/19/91	N/A	09/28/91
MW-5	005	W	91LVW156	09/19/91	N/A	09/25/91
MW-5	005 MS	W	91LVW156	09/19/91	N/A	09/25/91
MW-5	005 MSD	W	91LVW157	09/19/91	N/A	09/26/91
FIELD BLANK	006	W	91LVW156	09/19/91	N/A	09/25/91
TRIP BLANK	007	W	91LVW155	09/19/91	N/A	09/24/91

LAB QC:

VBLK	MB1	W	91LVK168	N/A	N/A	09/26/91
VBLK	MB1	W	91LVK170	N/A	N/A	09/28/91
VBLK	MB1	W	91LVK169	N/A	N/A	09/27/91
VBLK	MB1	W	91LVW156	N/A	N/A	09/25/91
VBLK	MB1	W	91LVW157	N/A	N/A	09/26/91
VBLK	MB1	W	91LVW155	N/A	N/A	09/24/91

INTRO: PAGE

Chain Of Custody..... 1
Data Summary..... 3

I. Case Narrative..... 10

II. QC Summary..... 13
A. Surrogate % Recovery Summary (Form 2)
B. Matrix Spike (Form 3)
C. Reagent Blank Summary (Form 4)
D. GC/MS Tuning and Calibration Standard (Form 5)

III. Sample Data Package..... 30
A. Sample Data in order of RFW sample number
1. Tabulated Results (Form 1)
2. Tentatively identified compound (form 1E)
3. Raw Data in order:
a. Reconstructed Ion Chromatogram(s)
b. Quantitation Report(s)
c. HSL Mass Spectra
d. TIC Mass Spectra
e. GC/MS Library Search for TIC

IV. Standards Data Package..... 132
A. Initial Calibration Data:
1. Form 6
2. Reconstructed Ion Chromatogram(s) and Quantitation Report(s)

B. Continuing Calibration Data
1. Form 7
2. Reconstructed Ion Chromatogram(s) and Quantitation Report(s)

C. Internal Standard Summary (Form 8)

V. Raw QC Data Package..... 219
A. GC/MS Tuning and Calibration Standard: DFTPP
1. Bar Graph
2. Mass Listing

B. Blank Data
1. Tabulated Results (Form 1)
2. TIC Results (Form 1B)
3. Raw Data
a. Reconstructed Ion Chromatogram(s) and Quantitation Report(s)
b. HSL Spectra
c. TIC Spectra
d. GC/MS Library Search for TIC

C. Matrix Spike Data
1. Tabulated Results (Form 1)
2. Raw Data
a. Reconstructed Ion Chromatogram(s)
b. Quantitation Report(s)

VI. Additional Documentation..... 286
A. Extraction Record

WESTON

CHAIN OF CUSTODY

WESTON Analytics Use Only
9109L758

Custody Transfer Record/Lab Work Request

WESTON

Page 1 of 1

Client: WSI-L. E. Carpenter
Est. Final Proj. Sampling Date: 9/19/91
Work Order #: 3600-04-90
Project Contact/Phone #: Ken Tipton 908-225-3930
AD Project Manager: Marsha O'Neill 908-225-3910
QC: CLP Del: CLP TAT: 30 day
Date Rec'd: 9/20/91 Date Due: 10/20/91
Account #: WSI-LECARP

Refrigerator #																			
#/Type Container	Liquid	4																	
	Solid																		
Volume	Liquid	40ml																	
	Solid																		
Preservatives		None																	
ANALYSES REQUESTED →			ORGANIC								INORG								
			VOA	BNA	Pest/PCB	Herb					Metal	CN							
WESTON Analytics Use Only																			

MATRIX CODES:
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

Lab ID	Client ID/Description	Matrix QC Chosen (✓) MS	MSD	Matrix	Date Collected	Time Collected	VOA
001	MW-1			Water	9/19/91	1400	✓
002	MW-2			Water	9/19/91	1630	✓
003	MW-3			Water	9/19/91	1600	✓
004	MW-4			Water	9/19/91	1530	✓
005	MW-5 MS/MSD	✓	✓	Water	9/19/91	1500	✓
006	Field Blank			Water	9/19/91	1000	✓
007	Trip Blank			Water	9/19/91	—	✓

CLP Del = CLP

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:

STANDARD Tier II Deliverable
30 day TURNAROUND
NJCLPII

DATE/REVISIONS:
1.
2.
3.
4.
5.
6.

WESTON Analytics Use Only

Samples were:
1) Shipped ✓ or Hand Delivered
Airbill # 9680973573
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Labels Indicate Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N

COC Record Present Upon Sample Rec'd Y or N

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES

Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time
Daniel Fed							
FEDEX	BRONCO	9/20/91	9:30	—	SF	9/20/91	

RFW 21-21-001/A-7/91 L372 L373 L375 L377 L378 Ref# N/A Cooler# N/A 381-596a

000002

WESTON

DATA SUMMARY

Roy F. Weston, Inc. - Lionville Laboratory

Volatiles by GC/MS, Priority Pollutant List

Report Date: 10/21/91 16:49

RFW Batch Number: 9109L758 Client: WSI-LE CARPENTER Work Order: 3600-04-90-0000 Page: 1a

	Cust ID:	MW-1		MW-2		MW-2		MW-3		MW-4		MW-5	
Sample Information	RFW#:	001		002		002 DL		003		004		005	
	Matrix:	WATER		WATER		WATER		WATER		WATER		WATER	
	D.F.:	1000		1.00		2.00		500		1.00		1.00	
	Units:	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
Surrogate Recovery	Toluene-d8	95	%	112 *	%	94	%	97	%	106	%	105	%
	Bromofluorobenzene	89	%	105	%	90	%	91	%	105	%	109	%
	1,2-Dichloroethane-d4	103	%	98	%	98	%	108	%	103	%	98	%
Chloromethane		10000	U	10	U	NA		5000	U	10	U	10	U
Bromomethane		10000	U	10	U	NA		5000	U	10	U	10	U
Vinyl Chloride		10000	U	10	U	NA		5000	U	10	U	10	U
Chloroethane		10000	U	10	U	NA		5000	U	10	U	10	U
Methylene Chloride		27000	B	7	B	NA		7400	B	5	U	28	B
1,1-Dichloroethene		5000	U	5	U	NA		2500	U	5	U	5	U
1,1-Dichloroethane		5000	U	5	U	NA		2500	U	5	U	5	U
1,2-Dichloroethene (total)		5000	U	5	U	NA		2500	U	5	U	5	U
Chloroform		5000	U	5	U	NA		2500	U	5	U	5	U
1,2-Dichloroethane		5000	U	5	U	NA		2500	U	5	U	5	U
1,1,1-Trichloroethane		5000	U	5	U	NA		2500	U	5	U	5	U
Carbon Tetrachloride		5000	U	5	U	NA		2500	U	5	U	5	U
Bromodichloromethane		5000	U	5	U	NA		2500	U	5	U	5	U
1,2-Dichloropropane		5000	U	5	U	NA		2500	U	5	U	5	U
cis-1,3-Dichloropropene		5000	U	5	U	NA		2500	U	5	U	5	U
Trichloroethene		5000	U	5	U	NA		2500	U	5	U	5	U
Dibromochloromethane		5000	U	5	U	NA		2500	U	5	U	5	U
1,1,2-Trichloroethane		5000	U	5	U	NA		2500	U	5	U	5	U
Benzene		5000	U	5	U	NA		2500	U	5	U	5	U
Trans-1,3-Dichloropropene		5000	U	5	U	NA		2500	U	5	U	5	U
2-chloroethylvinylether		10000	U	10	U	NA		5000	U	10	U	10	U
Bromoform		5000	U	5	U	NA		2500	U	5	U	5	U
Tetrachloroethene		5000	U	5	U	NA		2500	U	5	U	5	U
1,1,2,2-Tetrachloroethane		5000	U	5	U	NA		2500	U	5	U	5	U
Toluene		5000	U	5	U	NA		2500	U	5	U	2	J
Chlorobenzene		5000	U	5	U	NA		2500	U	5	U	5	U
Ethylbenzene		40000		5		NA		10000		29		5	U
1,2-Dichlorobenzene		5000	U	5	U	NA		2500	U	5	U	5	U
1,3-Dichlorobenzene		5000	U	5	U	NA		2500	U	5	U	5	U

*= Outside of EPA CLP QC limits.

000007

Cust ID:	MW-1		MW-2		MW-2	MW-3		MW-4		MW-5	
RFW#:	001		002		002 DL	003		004		005	
1,4-Dichlorobenzene	5000	U	5	U	NA	2500	U	5	U	5	U
Acrolein	10000	U	10	U	NA	5000	U	10	U	10	U
Acrylonitrile	10000	U	10	U	NA	5000	U	10	U	10	U
Trichlorofluoromethane	5000	U	5	U	NA	2500	U	5	U	5	U
Xylene (total)	270000			E	150	63000		130		2	J

*= Outside of EPA CLP QC limits.

000000E

Roy F. Weston, Inc. - Lionville Laboratory
Volatiles by GC/MS, Priority Pollutant List

RFW Batch Number: 9109L758 Client: WSI-LE CARPENTER Work Order: 3600-04-90-0000 Report Date: 10/21/91 16:49 Page: 2a

	Cust ID:	MW-5		MW-5		FIELD BLANK		TRIP BLANK		VBLK		VBLK	
Sample Information	RFW#:	005 MS		005 MSD		006		007		91LVK168-MB1		91LVK170-MB1	
	Matrix:	WATER		WATER		WATER		WATER		WATER		WATER	
	D.F.:	1.00		1.00		1.00		1.00		1.00		1.00	
	Units:	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
Surrogate Recovery	Toluene-d8	92	%	100	%	101	%	102	%	96	%	101	%
	Bromofluorobenzene	96	%	99	%	102	%	105	%	91	%	97	%
	1,2-Dichloroethane-d4	87	%	94	%	96	%	105	%	98	%	97	%
Chloromethane		10	U	10	U	10	U	10	U	10	U	10	U
Bromomethane		10	U	10	U	10	U	10	U	10	U	10	U
Vinyl Chloride		10	U	10	U	10	U	10	U	10	U	10	U
Chloroethane		10	U	10	U	10	U	10	U	10	U	10	U
Methylene Chloride		12	B	6	B	17	B	3	JB	11		7	
1,1-Dichloroethene		117	%	134	%	5	U	5	U	5	U	5	U
1,1-Dichloroethane		5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichloroethene (total)		5	U	5	U	5	U	5	U	5	U	5	U
Chloroform		5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichloroethane		5	U	5	U	5	U	5	U	5	U	5	U
1,1,1-Trichloroethane		5	U	5	U	5	U	5	U	5	U	5	U
Carbon Tetrachloride		5	U	5	U	5	U	5	U	5	U	5	U
Bromodichloromethane		5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichloropropane		5	U	5	U	5	U	5	U	5	U	5	U
cis-1,3-Dichloropropene		5	U	5	U	5	U	5	U	5	U	5	U
Trichloroethene		110	%	118	%	5	U	5	U	5	U	5	U
Dibromochloromethane		5	U	5	U	5	U	5	U	5	U	5	U
1,1,2-Trichloroethane		5	U	5	U	5	U	5	U	5	U	5	U
Benzene		114	%	125	%	5	U	5	U	5	U	5	U
Trans-1,3-Dichloropropene		5	U	5	U	5	U	5	U	5	U	5	U
2-chloroethylvinylether		10	U	10	U	10	U	10	U	10	U	10	U
Bromoform		5	U	5	U	5	U	5	U	5	U	5	U
Tetrachloroethene		5	U	5	U	5	U	5	U	5	U	5	U
1,1,2,2-Tetrachloroethane		5	U	5	U	5	U	5	U	5	U	5	U
Toluene		114	%	121	%	1	J	5	U	5	U	5	U
Chlorobenzene		123	%	127	%	5	U	5	U	5	U	5	U
Ethylbenzene		5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichlorobenzene		5	U	5	U	5	U	5	U	5	U	5	U
1,3-Dichlorobenzene		5	U	5	U	5	U	5	U	5	U	5	U

*= Outside of EPA CLP QC limits.

000006

Cust ID:	MW-5		MW-5		FIELD BLANK		TRIP BLANK		VBLK		VBLK	
RFW#:	005 MS		005 MSD		006		007		91LVK168-MB1		91LVK170-MB1	
1,4-Dichlorobenzene	5	U	5	U	5	U	5	U	5	U	5	U
Acrolein	10	U	10	U	10	U	10	U	10	U	10	U
Acrylonitrile	10	U	10	U	10	U	10	U	10	U	10	U
Trichlorofluoromethane	5	U	5	U	5	U	5	U	5	U	5	U
Xylene (total)	1	J	5	U	5	U	5	U	5	U	5	U

*= Outside of EPA CLP QC limits.

000007

	Cust ID:	VBLK		VBLK		VBLK		VBLK									
Sample Information	RFW#:	91LVK169-MB1		91LVW156-MB1		91LVW157-MB1		91LVW155-MB1									
	Matrix:	WATER		WATER		WATER		WATER									
	D.F.:	1.00		1.00		1.00		1.00									
	Units:	UG/L		UG/L		UG/L		UG/L									
	Toluene-d8	98	%	104	%	110	%	99	%								
Surrogate Recovery	Bromofluorobenzene	94	%	106	%	108	%	99	%								
	1,2-Dichloroethane-d4	101	%	100	%	107	%	96	%								
Chloromethane		10	U	10	U	10	U	10	U								
Bromomethane		10	U	10	U	10	U	10	U								
Vinyl Chloride		10	U	10	U	10	U	10	U								
Chloroethane		10	U	10	U	10	U	10	U								
Methylene Chloride		13		5		13		12									
1,1-Dichloroethene		5	U	5	U	5	U	5	U								
1,1-Dichloroethane		5	U	5	U	5	U	5	U								
1,2-Dichloroethene (total)		5	U	5	U	5	U	5	U								
Chloroform		5	U	5	U	5	U	5	U								
1,2-Dichloroethane		5	U	5	U	5	U	5	U								
1,1,1-Trichloroethane		5	U	5	U	5	U	5	U								
Carbon Tetrachloride		5	U	5	U	5	U	5	U								
Bromodichloromethane		5	U	5	U	5	U	5	U								
1,2-Dichloropropane		5	U	5	U	5	U	5	U								
cis-1,3-Dichloropropene		5	U	5	U	5	U	5	U								
Trichloroethene		5	U	5	U	5	U	5	U								
Dibromochloromethane		5	U	5	U	5	U	5	U								
1,1,2-Trichloroethane		5	U	5	U	5	U	5	U								
Benzene		5	U	5	U	5	U	5	U								
Trans-1,3-Dichloropropene		5	U	5	U	5	U	5	U								
2-chloroethylvinylether		10	U	10	U	10	U	10	U								
Bromoform		5	U	5	U	5	U	5	U								
Tetrachloroethene		5	U	5	U	5	U	5	U								
1,1,2,2-Tetrachloroethane		5	U	5	U	5	U	5	U								
Toluene		5	U	5	U	5	U	5	U								
Chlorobenzene		5	U	5	U	5	U	5	U								
Ethylbenzene		5	U	5	U	5	U	5	U								
1,2-Dichlorobenzene		5	U	5	U	5	U	5	U								
1,3-Dichlorobenzene		5	U	5	U	5	U	5	U								

*= Outside of EPA CLP QC limits.

000003

Cust ID:	VBLK		VBLK		VBLK		VBLK	
RFW#:	91LVK169-MB1		91LVW156-MB1		91LVW157-MB1		91LVW155-MB1	
1,4-Dichlorobenzene	5	U	5	U	5	U	5	U
Acrolein	10	U	10	U	10	U	10	U
Acrylonitrile	10	U	10	U	10	U	10	U
Trichlorofluoromethane	5	U	5	U	5	U	5	U
Xylene (total)	5	U	5	U	5	U	5	U

*= Outside of EPA CLP QC limits.

000009

WESTON

CASE NARRATIVE

ROY F. WESTON, INC.
Lionville Laboratory

CLIENT: WSI - LE CARPENTER **SAMPLES RECEIVED:** 09-20-91
RFW #: 9109L758, GC/MS VOLATILE
W.O. #: 3600-04-90

NARRATIVE

The set of samples consisted of seven (7) water samples collected on 09-19-91.

The samples were analyzed according to criteria set forth in CLP SOW 02/88 (Rev. 05/89) for Client Specified target compounds on 09-24,25,26,27,28-91.

The following is a summary of the QC results accompanying these sample results and a description of any problems encountered during their analysis:

1. Non-target compounds were detected in these samples.

2. The following samples required dilution because they contained high levels of both target and non-target compounds:

Sample ID	Dilution Factor
MW-1	1000
MW-2	2
MW-3	500

3. MW-3 had two distinct phases. Only the aqueous phase was analyzed for GC/MS Volatiles.

4. One (1) of forty-eight (48) surrogate recoveries were outside EPA QC limits. EPA QC surrogate recovery criteria were not met for sample MW-2. The dilution performed on this sample fulfills the re-analysis requirement.

5. All matrix spike recoveries were within EPA QC limits.

6. The laboratory blanks contained the common contaminant methylene chloride at levels less than 3x the CRQL.

7. Internal standard area and retention time criteria were met for all samples and blanks.

10.24.91.

Jack R. Tuschall, Ph.D. Date
Laboratory Manager
Lionville Analytical Laboratory

WESTON

GLOSSARY OF VOA DATA

DATA QUALIFIERS

U = Compound was analyzed for but not detected. The associated numerical value is the estimated sample quantitation limit which is included and corrected for dilution and percent moisture.

J = Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero; for example, if the limit of detection is 10 ug/L and a concentration of 3 ug/L is calculated, it is reported as 3J.

B = This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination. This flag is also used for a TIC as well as for a positively identified TCL compound.

E = Indicates that the compound was detected beyond the calibration range and was subsequently analyzed at a dilution.

I = Interference.

X = Additional qualifiers used as required are explained in the case narrative.

NQ = Result qualitatively confirmed but not able to quantify.

ABBREVIATIONS

BS = Indicates blank spike in which reagent grade water is spiked with the CLP matrix spiking solutions and carried through all the steps in the method. Spike recoveries are reported.

BSD = Indicates blank spike duplicate.

MS = Indicates matrix spike.

MSD = Indicates matrix spike duplicate.

DL = Indicates that surrogate recoveries were not obtained because the extract had to be diluted for analysis.

NA = Not applicable.

DF = Dilution factor.

NR = Not required.

WESTON

II. QC SUMMARY

A. SURROGATE % RECOVERY SUMMARY
(FORM 2)

B. MATRIX SPIKE
(FORM 3)

C. REAGENT BLANK SUMMARY
(FORM 4)

D. GC/MS TUNING AND CALIBRATION STANDARD
(FORM 5)

2A
WATER VOLATILE SURROGATE RECOVERY

Lab Name: Roy F. Weston, Inc. Contract: 3600-04-90-0000

Case No.: WSI-LE CARPENTER

RFW Lot No.: 9109L758

	CLIENT SAMPLE NO.	S1 (TOL)#	S2 (BFB)#	S3 (DCE)#	OTHER	TOT OUT
01	MW-1	95	89	103		0
02	MW-2	112 *	105	98		1
03	MW-2DL	94	90	98		0
04	MW-3	97	91	108		0
05	MW-4	106	105	103		0
06	MW-5	105	109	98		0
07	MW-5MS	92	96	87		0
08	MW-5MSD	100	99	94		0
09	FIELD BLANK	101	102	96		0
10	TRIP BLANK	102	105	105		0
11	VBLKLVK168-MB1	96	91	98		0
12	VBLKLVK170-MB1	101	97	97		0
13	VBLKLVK169-MB1	98	94	101		0
14	VBLKLVW156-MB1	104	106	100		0
15	VBLKLVW157-MB1	110	108	107		0
16	VBLKLVW155-MB1	99	99	96		0

	QC LIMITS
S1 (TOL) = Toluene-d8	(88-110)
S2 (BFB) = Bromofluorobenzene	(86-115)
S3 (DCE) = 1,2-Dichloroethane-d4	(76-114)

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

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Roy F. Weston, Inc. Contract: 3600-04-90-0000

Case No.: WSI-LE CARPENTER RFW Lot No.: 9109L758-005

MATRIX Spike - Sample No.: MW-5

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC
1,1-Dichloroethene	50.0	0	58.3	117	61-145
Trichloroethene	50.0	0	54.9	110	71-120
Benzene	50.0	0	57.1	114	76-127
Toluene	50.0	2.34	59.5	114	76-125
Chlorobenzene	50.0	0	61.5	123	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC
1,1-Dichloroethene	50.0	67.0	134	13	14	61-145
Trichloroethene	50.0	58.8	118	7	14	71-120
Benzene	50.0	62.6	125	9	11	76-127
Toluene	50.0	62.6	121	5	13	76-125
Chlorobenzene	50.0	63.3	127	3	13	75-130

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

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS:

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name: Roy F. Weston, Inc. Contract: 3600-04-90-0000

Case No.: WSI-LE CARPENTER

Lab File ID: AK9Q05 Lab Sample ID: 91LVK168-MB1

Date Analyzed: 09/26/91 Time Analyzed: 1507

Matrix:(Soil/Water) WATER Level:(low/med) LOW

Instrument ID: HP-MSD K

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	MW-1	9109L758-001	AK9Q16	2218

COMMENTS:

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name: Roy F. Weston, Inc. Contract: 3600-04-90-0000

Case No.: WSI-LE CARPENTER

Lab File ID: AK9R05 Lab Sample ID: 91LVK169-MB1

Date Analyzed: 09/27/91 Time Analyzed: 1310

Matrix:(Soil/Water) WATER Level:(low/med) LOW

Instrument ID: HP-MSD K

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	MW-2DL	9109L758-002	AK9R08	1529
02	MW-3	9109L758-003	AK9R12	1735

COMMENTS:

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name: Roy F. Weston, Inc. Contract: 3600-04-90-0000

Case No.: WSI-LE CARPENTER

Lab File ID: AK9S03 Lab Sample ID: 91LVK170-MB1

Date Analyzed: 09/28/91 Time Analyzed: 1327

Matrix:(Soil/Water) WATER Level:(low/med) LOW

Instrument ID: HP-MSD K

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	MW-2	9109L758-002	AK9S05	1502
02	MW-4	9109L758-004	AK9S06	1541

COMMENTS:

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name: Roy F. Weston, Inc. Contract: 3600-04-90-0000

Case No.: WSI-LE CARPENTER

Lab File ID: W092403 Lab Sample ID: 91LVW155-MB1

Date Analyzed: 09/24/91 Time Analyzed: 1125

Matrix:(Soil/Water) WATER Level:(low/med) LOW

Instrument ID: 1050W

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	TRIP BLANK	9109L758-007	W092413	1905

COMMENTS:

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name: Roy F. Weston, Inc. Contract: 3600-04-90-0000

Case No.: WSI-LE CARPENTER

Lab File ID: W092506 Lab Sample ID: 91LVW156-MB1

Date Analyzed: 09/25/91 Time Analyzed: 1331

Matrix:(Soil/Water) WATER Level:(low/med) LOW

Instrument ID: 1050W

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	FIELD BLANK	9109L758-006	W092518	2159
02	MW-5	9109L758-005	W092519	2239
03	MW-5MS	9109L758-005S	W092520	2319

COMMENTS:

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name: Roy F. Weston, Inc. Contract: 3600-04-90-0000

Case No.: WSI-LE CARPENTER

Lab File ID: W092603 Lab Sample ID: 91LVW157-MB1

Date Analyzed: 09/26/91 Time Analyzed: 1230

Matrix:(Soil/Water) WATER Level:(low/med) LOW

Instrument ID: 1050W

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	MW-5MSD	9109L758-005T	W092604	1439

COMMENTS:

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: Roy F. Weston, Inc. Contract: 3600-04-90-0000

Case No.: WSI-LE CARPENTER

Lab File ID: AK9D05 BFB Injection Date: 9/13/91

Instrument ID: HP-MSD K BFB Injection Time: 1323 ✓

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.3 ✓
75	30.0 - 60.0% of mass 95	46.8 ✓
95	Base peak, 100% relative abundance	100.0 ✓
96	5.0 - 9.0% of mass 95	6.6 ✓
173	Less than 2.0% of mass 174	0.0(0.0)1 ✓
174	Greater than 50.0% of mass 95	65.1 ✓
175	5.0 - 9.0% of mass 174	5.5(8.5)1 ✓
176	Greater than 95.0% but less than 101.0% of mass 174	65.6(100.8)1 ✓
177	5.0 - 9.0% of mass 176	4.2(6.4)2 ✓

1-Value is % mass 174 2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD50	VSTD50	AK9D06	09/13/91	1344
02	VSTD20	VSTD20	AK9D08	09/13/91	1510
03	VSTD100	VSTD100	AK9D09	09/13/91	1547
04	VSTD150	VSTD150	AK9D10	09/13/91	1624
05	VSTD200	VSTD200	AK9D11	09/13/91	1659
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: Roy F. Weston, Inc. Contract: 3600-04-90-0000

Case No.: WSI-LE CARPENTER

Lab File ID: AK9Q03 BFB Injection Date: 9/26/91

Instrument ID: HP-MSD K BFB Injection Time: 1335 ✓

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0% of mass 95	27.0 ✓	
75	30.0 - 60.0% of mass 95	54.3 ✓	
95	Base peak, 100% relative abundance	100.0 ✓	
96	5.0 - 9.0% of mass 95	7.8 ✓	
173	Less than 2.0% of mass 174	0.0(0.0)1	✓
174	Greater than 50.0% of mass 95	80.6	✓
175	5.0 - 9.0% of mass 174	5.4(6.7)1	✓
176	Greater than 95.0% but less than 101.0% of mass 174	78.8(97.9)1	✓
177	5.0 - 9.0% of mass 176	6.8(8.6)2	✓

1-Value is % mass 174 2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD50	VSTD50	AK9Q04	09/26/91	1404
02	VBLKLVK168-MB1	91LVK168-MB1	AK9Q05.	09/26/91	1507
03	MW-1	9109L758-001	AK9Q16.	09/26/91	2218
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: Roy F. Weston, Inc. Contract: 3600-04-90-0000

Case No.: WSI-LE CARPENTER

Lab File ID: AK9R02 BFB Injection Date: 9/27/91

Instrument ID: HP-MSD K BFB Injection Time: 1102 ✓

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0% of mass 95	24.9 ✓	
75	30.0 - 60.0% of mass 95	52.9 ✓	
95	Base peak, 100% relative abundance	100.0 ✓	
96	5.0 - 9.0% of mass 95	8.9 ✓	
173	Less than 2.0% of mass 174	0.0(0.0)1	✓
174	Greater than 50.0% of mass 95	78.5	✓
175	5.0 - 9.0% of mass 174	7.0(8.8)1	✓
176	Greater than 95.0% but less than 101.0% of mass 174	78.7(100.2)1	✓
177	5.0 - 9.0% of mass 176	4.2(5.3)2	✓

1-Value is % mass 174 2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD50	VSTD50	AK9R04	09/27/91	1222
02	VBLKLVK169-MB1	91LVK169-MB1	AK9R05.	09/27/91	1310
03	MW-2DL	9109L758-002	AK9R08.	09/27/91	1529
04	MW-3	9109L758-003	AK9R12.	09/27/91	1735
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: Roy F. Weston, Inc. Contract: 3600-04-90-0000

Case No.: WSI-LE CARPENTER

Lab File ID: AK9S01 BFB Injection Date: 9/28/91

Instrument ID: HP-MSD K BFB Injection Time: 1223

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0% of mass 95	20.2	✓
75	30.0 - 60.0% of mass 95	49.9	✓
95	Base peak, 100% relative abundance	100.0	✓
96	5.0 - 9.0% of mass 95	6.0	✓
173	Less than 2.0% of mass 174	0.0(0.0)1	✓
174	Greater than 50.0% of mass 95	83.2	✓
175	5.0 - 9.0% of mass 174	5.7(6.9)1	✓
176	Greater than 95.0% but less than 101.0% of mass 174	81.6(98.0)1	✓
177	5.0 - 9.0% of mass 176	4.4(5.4)2	✓

1-Value is % mass 174 2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD50	VSTD50	AK9S02	09/28/91	1241
02	VBLKLVK170-MB1	91LVK170-MB1	AK9S03.	09/28/91	1327
03	MW-2	9109L758-002	AK9S05.	09/28/91	1502
04	MW-4	9109L758-004	AK9S06.	09/28/91	1541
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: Roy F. Weston, Inc. Contract: 3600-04-90-0000

Case No.: WSI-LE CARPENTER

Lab File ID: W090308 BFB Injection Date: 09/03/91

Instrument ID: 1050W BFB Injection Time: 1451 ✓

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) PACK

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0% of mass 95	27.2 ✓	
75	30.0 - 60.0% of mass 95	56.6 ✓	
95	Base peak, 100% relative abundance	100.0 ✓	
96	5.0 - 9.0% of mass 95	7.4 ✓	
173	Less than 2.0% of mass 174	0.0(0.0)1	✓
174	Greater than 50.0% of mass 95	84.3	✓
175	5.0 - 9.0% of mass 174	5.8(6.9)1	✓
176	Greater than 95.0% but less than 101.0% of mass 174	84.3(100.0)1	✓
177	5.0 - 9.0% of mass 176	5.3(6.2)2	✓

1-Value is % mass 174 2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD20	VSTD20	W090309	09/03/91	1605
02	VSTD50	VSTD50	W090310	09/03/91	1646
03	VSTD100	VSTD100	W090311	09/03/91	1725
04	VSTD150	VSTD150	W090312	09/03/91	1805
05	VSTD200	VSTD200	W090313	09/03/91	1845
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: Roy F. Weston, Inc. Contract: 3600-04-90-0000

Case No.: WSI-LE CARPENTER

Lab File ID: W092401 BFB Injection Date: 09/24/91

Instrument ID: 1050W BFB Injection Time: 1028 ✓

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) PACK

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0% of mass 95	29.5 ✓	
75	30.0 - 60.0% of mass 95	55.7 ✓	
95	Base peak, 100% relative abundance	100.0 ✓	
96	5.0 - 9.0% of mass 95	7.9 ✓	
173	Less than 2.0% of mass 174	0.0(0.0)1	✓
174	Greater than 50.0% of mass 95	73.3	✓
175	5.0 - 9.0% of mass 174	4.6(6.3)1	✓
176	Greater than 95.0% but less than 101.0% of mass 174	70.8(96.7)1	✓
177	5.0 - 9.0% of mass 176	4.6(6.5)2	✓

1-Value is % mass 174 2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD50	VSTD50	W092402	09/24/91	1044
02	VBLKLVW155-MB1	91LVW155-MB1	W092403	09/24/91	1125
03	TRIP BLANK	9109L758-007	W092413	09/24/91	1905
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: Roy F. Weston, Inc. Contract: 3600-04-90-0000

Case No.: WSI-LE CARPENTER

Lab File ID: W092504 BFB Injection Date: 09/25/91

Instrument ID: 1050W BFB Injection Time: 1237 ✓

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) PACK

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	29.1 ✓
75	30.0 - 60.0% of mass 95	56.8 ✓
95	Base peak, 100% relative abundance	100.0 ✓
96	5.0 - 9.0% of mass 95	7.7 ✓
173	Less than 2.0% of mass 174	0.0(0.0)1 ✓
174	Greater than 50.0% of mass 95	70.8 ✓
175	5.0 - 9.0% of mass 174	4.8(6.7)1 ✓
176	Greater than 95.0% but less than 101.0% of mass 174	70.0(98.8)1 ✓
177	5.0 - 9.0% of mass 176	4.7(6.8)2 ✓

1-Value is % mass 174 2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD50	VSTD50	W092505	09/25/91	1251
02	VBLKLVW156-MB1	91LVW156-MB1	W092506	09/25/91	1331
03	FIELD BLANK	9109L758-006	W092518	09/25/91	2159
04	MW-5	9109L758-005	W092519	09/25/91	2239
05	MW-5MS	9109L758-005S	W092520	09/25/91	2319
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: Roy F. Weston, Inc. Contract: 3600-04-90-0000

Case No.: WSI-LE CARPENTER

Lab File ID: W092601 BFB Injection Date: 09/26/91

Instrument ID: 1050W BFB Injection Time: 1133 ✓

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) PACK

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0% of mass 95	28.4 ✓	
75	30.0 - 60.0% of mass 95	57.0 ✓	
95	Base peak, 100% relative abundance	100.0 ✓	
96	5.0 - 9.0% of mass 95	8.9 ✓	
173	Less than 2.0% of mass 174	0.0(0.0)1	✓
174	Greater than 50.0% of mass 95	74.1	✓
175	5.0 - 9.0% of mass 174	5.2(7.1)1	✓
176	Greater than 95.0% but less than 101.0% of mass 174	74.0(99.8)1	✓
177	5.0 - 9.0% of mass 176	4.9(6.6)2	✓

1-Value is % mass 174 2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD50	VSTD50	W092602	09/26/91	1150
02	VBLKLVW157-MB1	91LVW157-MB1	W092603	09/26/91	1230
03	MW-5MSD	9109L758-005T	W092604	09/26/91	1439
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

WESTON

III. SAMPLE DATA PACKAGE

A. SAMPLE DATA IN ORDER OF RFW SAMPLE NUMBER

1. TABULATED RESULTS (FORM 1)

2. TENTATIVELY IDENTIFIED COMPOUND (FORM 1E)

3. RAW DATA IN ORDER:

   a. RECONSTRUCTED ION CHROMATOGRAM(S)
   b. QUANTITATION REPORT(S)
   c. HSL MASS SPECTRA
   d. TIC MASS SPECTRA
   e. GC/MS LIBRARY SEARCH FOR TIC

1A
VOLATILE ORGANICS ANALYSIS SHEET

0000031

CLIENT SAMPLE NO.

MW-1

Lab Name: Roy F. Weston, Inc. Work Order: 3600-04-90-0000

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 9109L758-001

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AK9Q16

Level: (low/med) LOW

Date Received: 09/20/91

% Moisture: not dec. _____

Date Analyzed: 09/26/91

Column: (pack/cap) CAP

Dilution Factor: 1000

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10000	U
74-83-9	Bromomethane	10000	U
75-01-4	Vinyl Chloride	10000	U
75-00-3	Chloroethane	10000	U
75-09-2	Methylene Chloride	27000	B
75-35-4	1,1-Dichloroethene	5000	U
75-34-3	1,1-Dichloroethane	5000	U
540-59-0	1,2-Dichloroethene (total)	5000	U
67-66-3	Chloroform	5000	U
107-06-2	1,2-Dichloroethane	5000	U
71-55-6	1,1,1-Trichloroethane	5000	U
56-23-5	Carbon Tetrachloride	5000	U
75-27-4	Bromodichloromethane	5000	U
78-87-5	1,2-Dichloropropane	5000	U
10061-01-5	cis-1,3-Dichloropropene	5000	U
79-01-6	Trichloroethene	5000	U
124-48-1	Dibromochloromethane	5000	U
79-00-5	1,1,2-Trichloroethane	5000	U
71-43-2	Benzene	5000	U
10061-02-6	Trans-1,3-Dichloropropene	5000	U
110-75-8	2-chloroethylvinylether	10000	U
75-25-2	Bromoform	5000	U
127-18-4	Tetrachloroethene	5000	U
79-34-5	1,1,2,2-Tetrachloroethane	5000	U
108-88-3	Toluene	5000	U
108-90-7	Chlorobenzene	5000	U
100-41-4	Ethylbenzene	40000	
95-50-1	1,2-Dichlorobenzene	5000	U
541-73-1	1,3-Dichlorobenzene	5000	U
106-46-7	1,4-Dichlorobenzene	5000	U
107-02-8	Acrolein	10000	U
107-13-1	Acrylonitrile	10000	U
75-69-4	Trichlorofluoromethane	5000	U
1330-20-7	Xylene (total)	270000	

1E 0000032

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-1

Lab Name: Roy F. Weston, Inc. Work Order: 3600-04-90-0000

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 9109L758-001

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AK9Q16

Level: (low/med) LOW

Date Received: 09/20/91

% Moisture: not dec. _____

Date Analyzed: 09/26/91

Column: (pack/cap) CAP

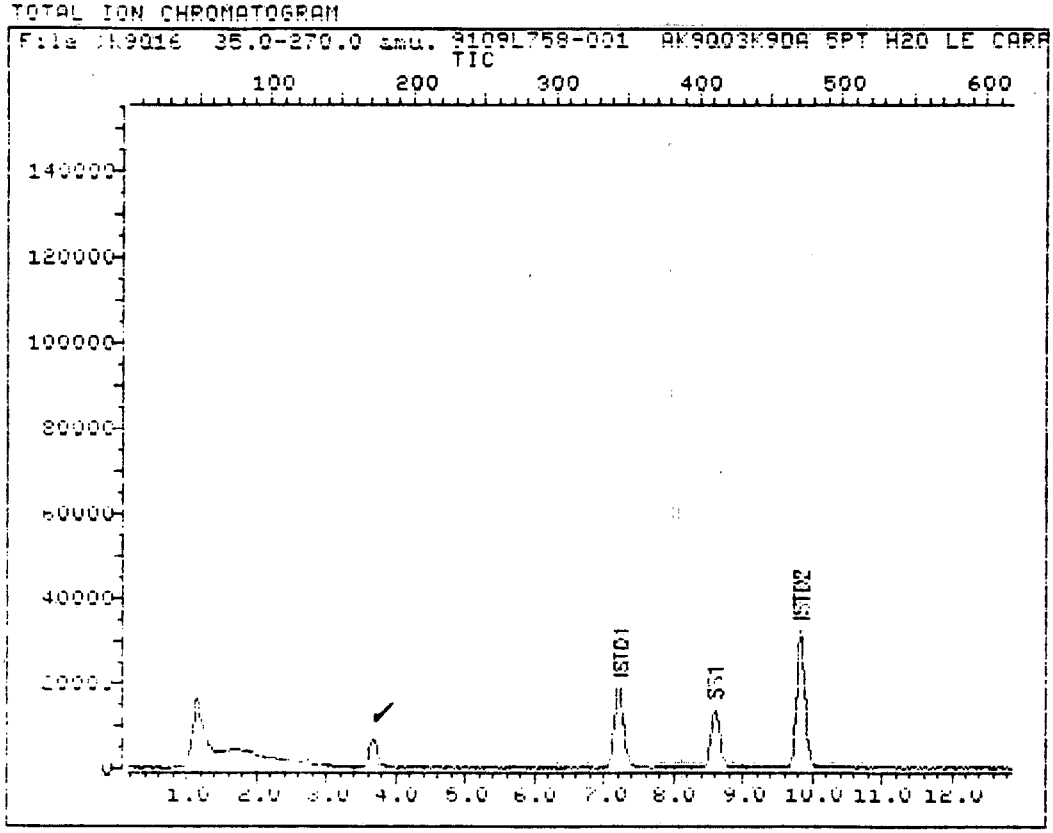
Dilution Factor: 1000

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

TOTAL ION CHROMATOGRAM



Data File: >K9Q16::D2 Quant Output File: ^K9Q16::QQ
Name: 9109L758-001 AK9Q03
Misc: K9DA 5PT H2O LE CARPENTER 5uL DIL 1000, #HP-MSD K RSL

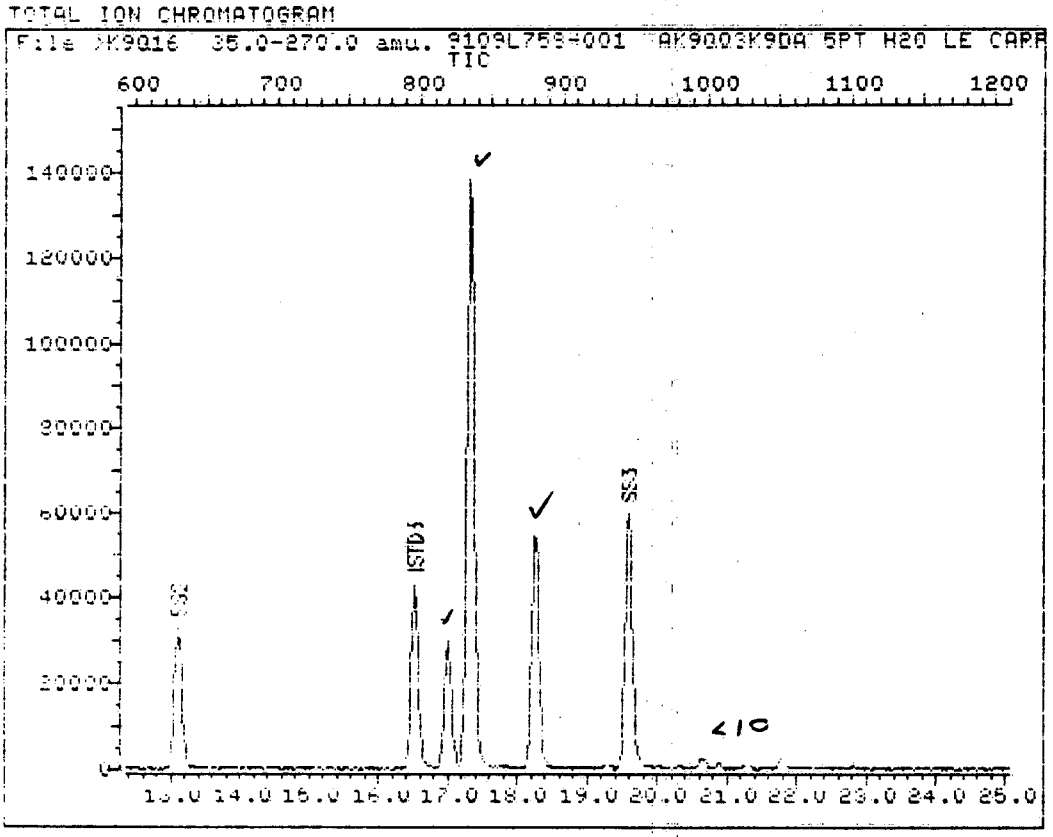
Id File: I_K9QA::QQ
Title: VOLATILES BY CAPILLARY (DB-624)
Last Calibration: 910926 15:03

Operator ID: RSL
Quant Time: 910926 22:44
Injected at: 910926 22:18

TIC page 1 of 2

NO TICS
RSL
9/27/91

TOTAL ION CHROMATOGRAM



Data File: >K9Q16::D2 Quant Output File: ^K9Q16::QQ
Name: 9109L758-001 AK9Q03
Misc: K9DA 5PT H2O LE CARPENTER 5uL DIL 1000; #HP-MSD K RSL

Id File: I_K9QA::QQ
Title: VOLATILES BY CAPILLARY (DB-624)
Last Calibration: 910926 15:03

Operator ID: RSL
Quant Time: 910926 22:44
Injected at: 910926 22:18

TIC page 2 of 2

QUANT REPORT

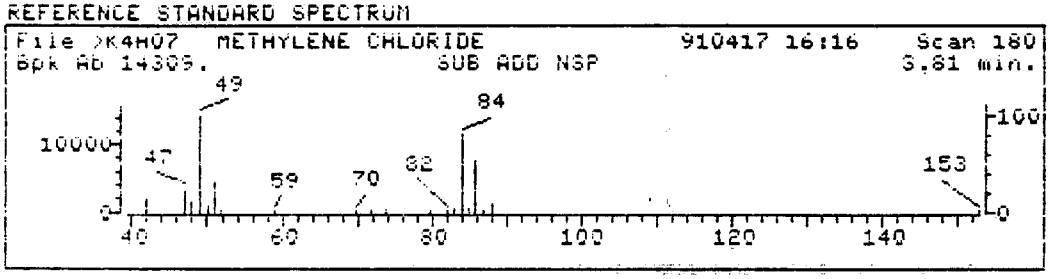
Operator ID: RSL Quant Rev: 6 Quant Time: 910926 22:44
Output File: ^K9Q16::QQ Injected at: 910926 22:18
Data File: >K9Q16::D2 Dilution Factor: 1.00000
Name: 9109L758-001 AK9Q03
Misc: K9DA 5PT H2O LE CARPENTER 5uL DIL 1000, #HP-MSD K RSL

ID File: I_K9QA::QQ
Title: VOLATILES BY CAPILLARY (DB-624)
Last Calibration: 910926 15:03

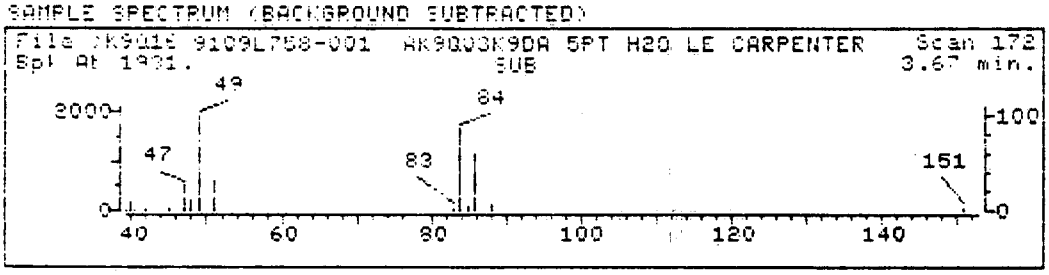
	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE	7.24	128.0	25863 ✓	50.00	ug/L	68
11)	ACETONE	3.01	43.0	709	7.85	ug/L ✓	100
12)	METHYLENE CHLORIDE	3.67	84.0	14351	26.78	ug/L ✓	75
24)	*1,4-DIFLUOROBENZENE	9.83	114.0	102683 ✓	50.00	ug/L	67
26)	1,2-DICHLOROETHANE D4	8.59	65.0	49996	51.32	ug/L ✓	87
32)	*CHLOROBENZENE-D5	16.52	117.0	97375 ✓	50.00	ug/L	94
34)	TOLUENE D8	13.10	98.0	92392	47.34	ug/L ✓	98
43)	ETHYLBENZENE	16.99	106.0	25352	39.60	ug/L ✓	98
45)	XYLENE	17.32	106.0	144027	191.73	ug/L ✓	87
46)	XYLENES (TOTAL)	18.25	106.0	56265	75.17	ug/L ✓	88
48)	4-BROMOFLUOROBENZENE	19.59	95.0	80930	44.32	ug/L ✓	84

* Compound is ISTD

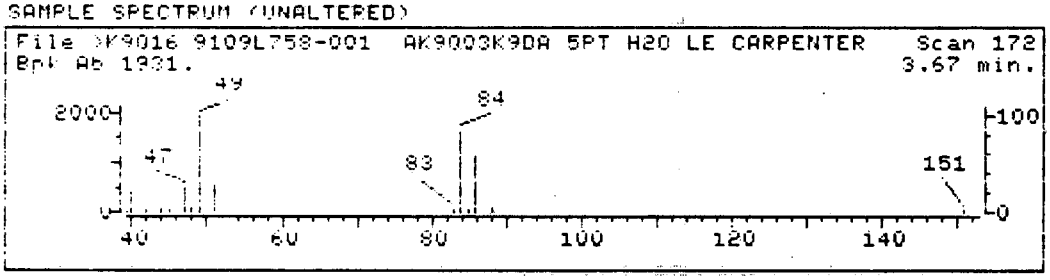
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



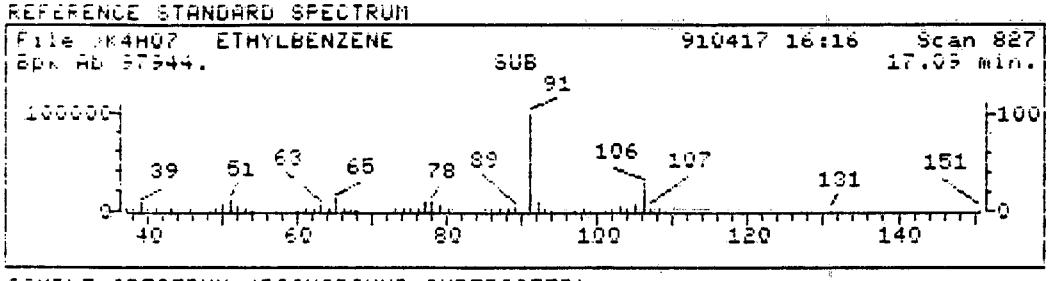
SAMPLE SPECTRUM (UNALTERED)



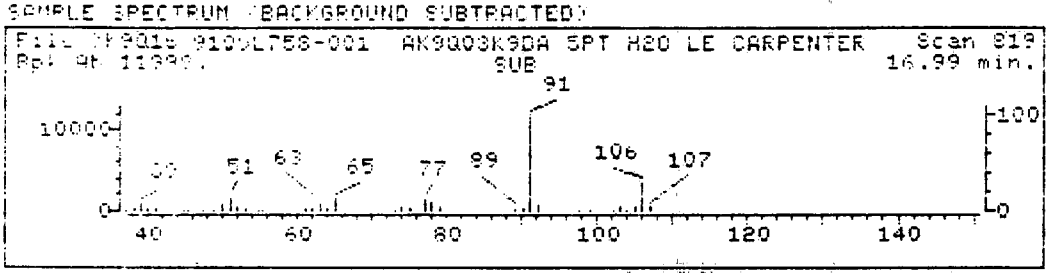
Data File: >K9Q16::D2 Quant Output File: ^K9Q16::QQ
Name: 9109L758-001 AK9Q03
Misc: K9DA 5PT H2O LE CARPENTER 5uL DIL 1000, #HP-MSD K RSL
Quant Time: 910926 22:44 Quant ID File: I_K9QA::QQ
Injected at: 910926 22:18 Last Calibration: 910926 15:03

Compound No: 12
Compound Name: METHYLENE CHLORIDE
Scan Number: 172
Retention Time: 3.67 min.
Quant Ion: 84.0
Area: 14351
Concentration: 26.78 ug/L
q-value: 75

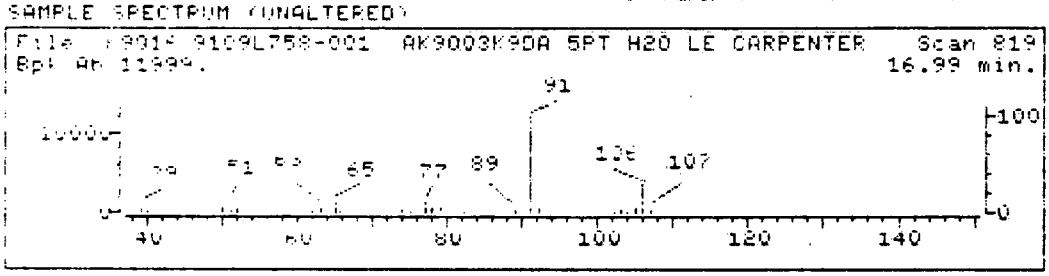
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



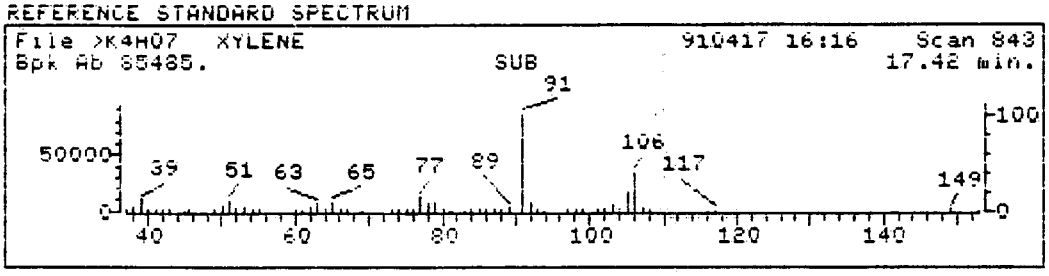
SAMPLE SPECTRUM (UNALTERED)



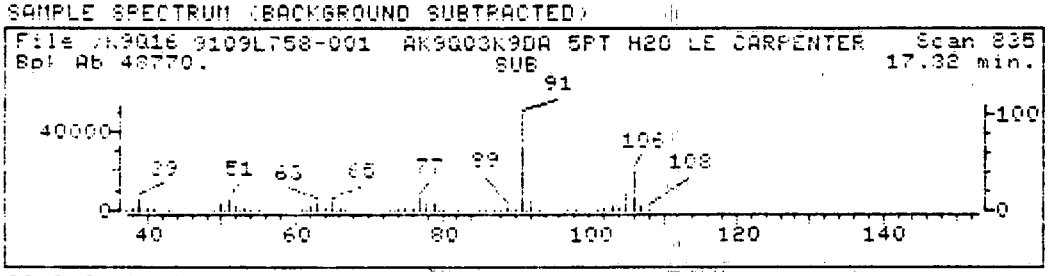
Data File: >K9Q16::D2 Quant Output File: ^K9Q16::QQ
Name: 9109L758-001 AK9Q03
Misc: K9DA 5PT H2O LE CARPENTER 5uL DIL 1000, #HP-MSD K RSL
Quant Time: 910926 22:44 Quant ID File: I_K9QA::QQ
Injected at: 910926 22:18 Last Calibration: 910926 15:03

Compound No: 43
Compound Name: ETHYLBENZENE
Scan Number: 819
Retention Time: 16.99 min.
Quant Ion: 106.0
Area: 25352
Concentration: 39.60 ug/L
q-value: 98

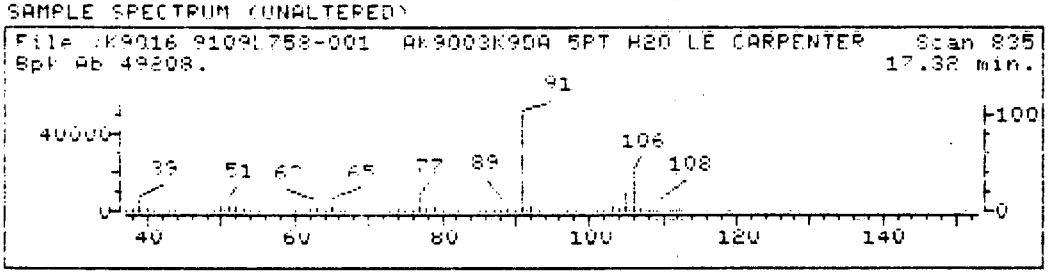
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



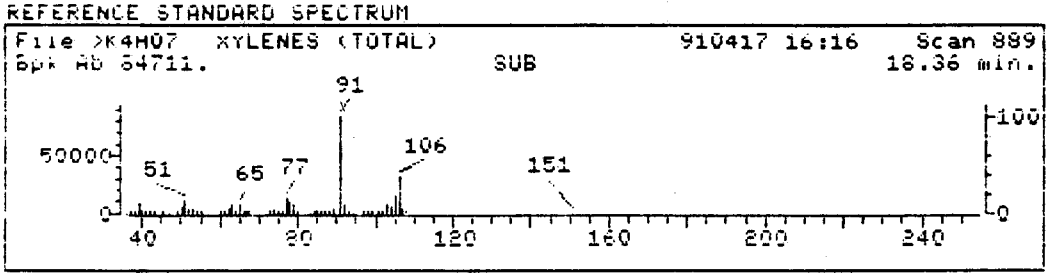
SAMPLE SPECTRUM (UNALTERED)



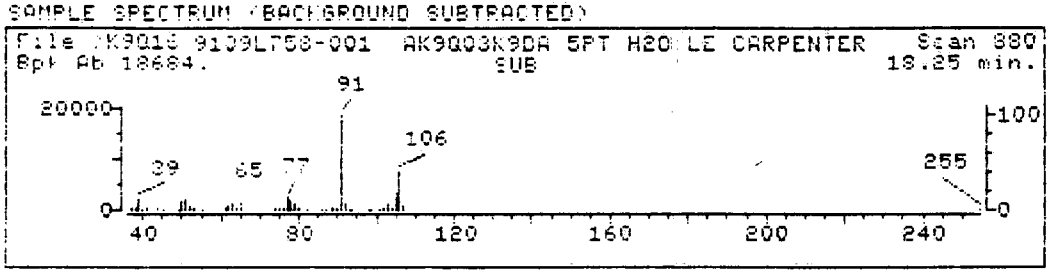
Data File: >K9Q16::D2 Quant Output File: ^K9Q16::QQ
Name: 9109L758-001 AK9Q03
Misc: K9DA 5PT H2O LE CARPENTER 5uL DIL 1000, #HP-MSD K RSL
Quant Time: 910926 22:44 Quant ID File: I_K9QA::QQ
Injected at: 910926 22:18 Last Calibration: 910926 15:03

Compound No: 45
Compound Name: XYLENE
Scan Number: 835
Retention Time: 17.32 min.
Quant Ion: 106.0
Area: 144027
Concentration: 191.73 ug/L
q-value: 87

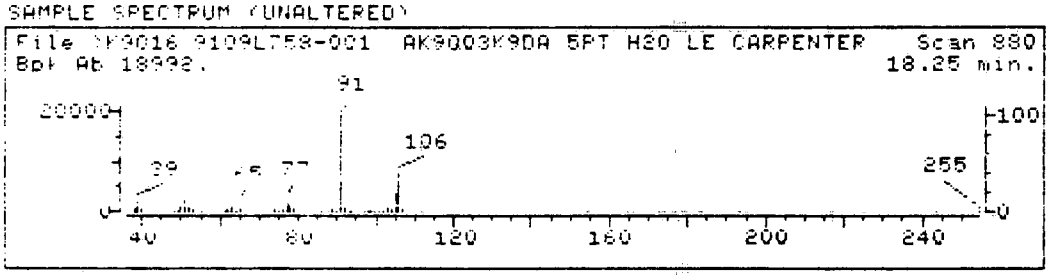
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >K9Q16::D2 Quant Output File: ^K9Q16::QQ
Name: 9109L758-001 AK9Q03
Misc: K9DA 5PT H2O LE CARPENTER 5uL DIL 1000, #HP-MSD K RSL
Quant Time: 910926 22:44 Quant ID File: I_K9QA::QQ
Injected at: 910926 22:18 Last Calibration: 910926 15:03

Compound No: 46
Compound Name: XYLENES (TOTAL)
Scan Number: 880
Retention Time: 18.25 min.
Quant Ion: 106.0
Area: 56265
Concentration: 75.17 ug/L
q-value: 88

1A 0000040

VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

MW-2

Lab Name: Roy F. Weston, Inc. Work Order: 3600-04-90-0000

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 9109L758-002

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AK9S05

Level: (low/med) LOW

Date Received: 09/20/91

% Moisture: not dec. _____

Date Analyzed: 09/28/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	7	B
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
110-75-8	2-chloroethylvinylether	10	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	
95-50-1	1,2-Dichlorobenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
75-69-4	Trichlorofluoromethane	5	U
1330-20-7	Xylene (total)		E

1E

000041

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-2

Lab Name: Roy F. Weston, Inc. Work Order: 3600-04-90-0000

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 9109L758-002

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AK9S05

Level: (low/med) LOW

Date Received: 09/20/91

% Moisture: not dec. _____

Date Analyzed: 09/28/91

Column: (pack/cap) CAP

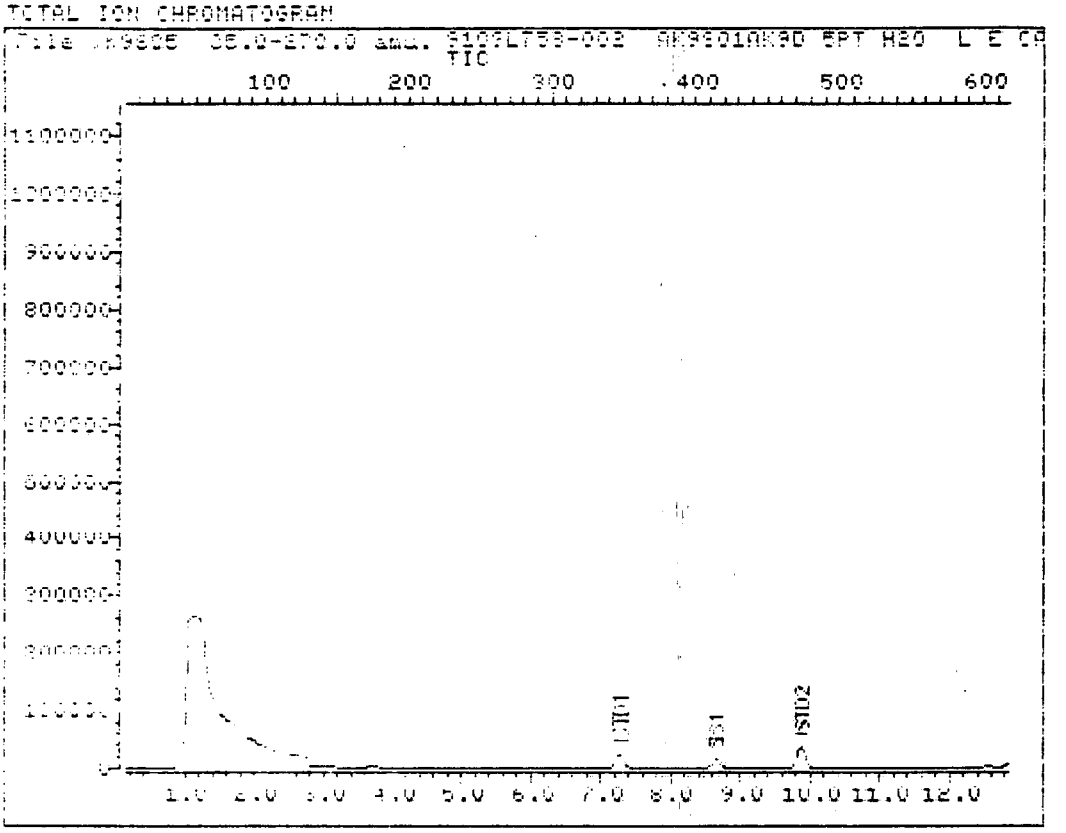
Dilution Factor: 1.00

Number TICs found: 15

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	C3 CYCLOHEXANE	18.09	100	J
2.	ALKANE	18.56	300	J
3.	ALKANE	18.85	200	J
4.	CYCLOALKANE	19.02	200	J
5.	ALKANE	19.20	300	J
6.	ALKANE	19.43	300	J
7.	ALKANE	19.95	300	J
8.	HYDROCARBON	20.19	400	J
9.	ALKANE	20.53	200	J
10.	UNKNOWN	20.65	200	J
11.	UNKNOWN	21.00	300	J
12.	CYCLOALKANE	21.37	200	J
13.	ALKANE	21.93	400	J
14.	ALKANE	22.22	300	J
15.	HYDROCARBON	22.59	300	J

TOTAL ION CHROMATOGRAM



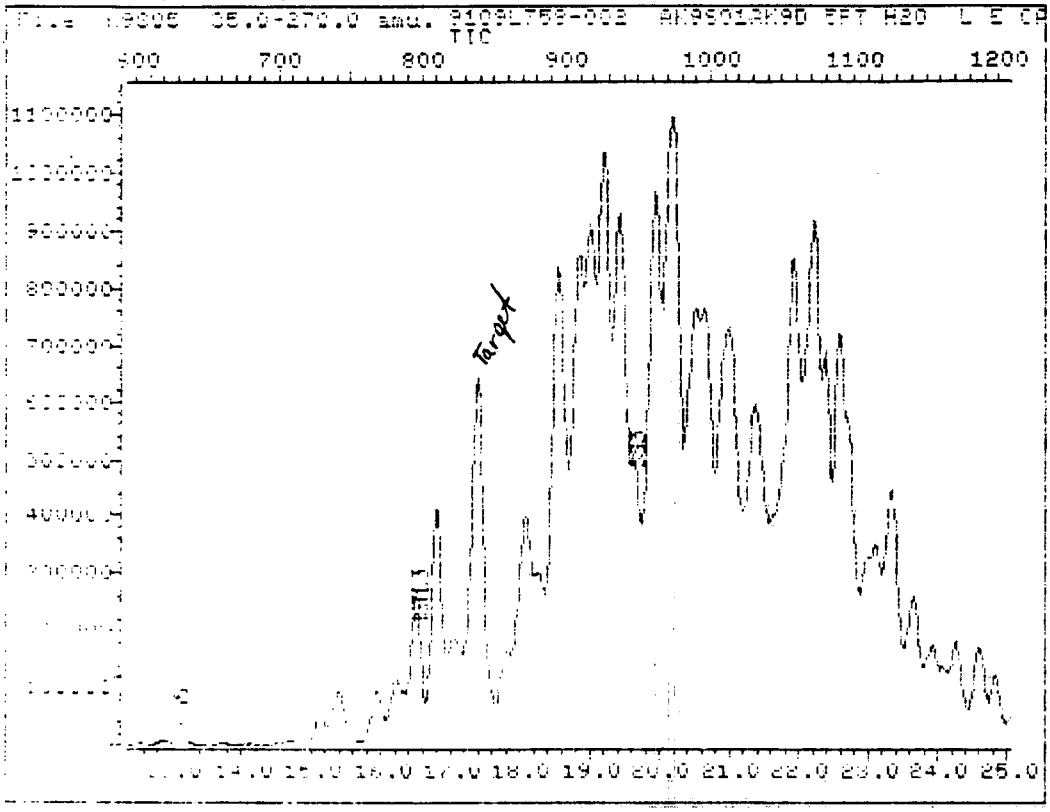
Data File: >K9S05::D2 Quant Output File: ^K9S05::QQ
Name: 9109L758-002 AK9S01
Misc: AK9D 5PT H2O L E CARPENTER 5ML #HP-MSD K BB

Id File: I_K9SA::QQ
Title: VOLATILES BY CAPILLARY (DB-624)
Last Calibration: 910928 13:14

Operator ID: BB
Quant Time: 910928 15:33
Injected at: 910928 15:02

TIC page 1 of 2

TOTAL ION CHROMATOGRAM



Data File: K9S05::D2 Quant Output File: ^K9S05::OQ
Name: 9109L758-002 AK9S01
Misc: AK9D 5PT H2O L E CARPENTER 5ML #HP-MSD K BB

Id File: I_K9SA::OQ
Title: VOLATILES BY CAPILLARY (DB-624)
Last Calibration: 910928 13:14

Operator ID: BB
Quant Time: 910928 15:33
Injected at: 910928 15:02

Possible Layer Efte

0000047

QUANT REPORT

Operator ID: BB Quant Rev: 6 Quant Time: 910928 15:33
Output File: ^K9S05::QQ Injected at: 910928 15:02
Data File: >K9S05::D2 Dilution Factor: 1.00000
Name: 9109L758-002 AK9S01
Misc: AK9D 5PT H2O L E CARPENTER 5ML #HP-MSD K BB

ID File: I_K9SA::QQ
Title: VOLATILES BY CAPILLARY (DB-624)
Last Calibration: 910928 13:14

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE	7.27	128.0	31442 ✓	50.00	ug/L	71
11)	ACETONE	2.98	43.0	415	3.52	ug/L ✓	100
12)	METHYLENE CHLORIDE	3.68	84.0	5929	7.32	ug/L ✓	61
24)	*1,4-DIFLUOROBENZENE	9.88	114.0	120820 ✓	50.00	ug/L	68
26)	1,2-DICHLOROETHANE D4	8.65	65.0	59344	49.24	ug/L ✓	91
32)	*CHLOROBENZENE-D5	16.56	117.0	96053 ✓	50.00	ug/L	98
34)	TOLUENE D8	13.12	98.0	112741M	56.06	ug/L ✓	98
41)	2-HEXANONE	15.40	43.0	96373	341.41	ug/L ✗	46
42)	CHLOROBENZENE	16.50	112.0	4683	3.06	ug/L ✗	80
43)	ETHYLBENZENE	17.05	106.0	3195	4.92	ug/L ✗	95
45)	XYLENE	17.41	106.0	273188 ✗	346.83	ug/L ✓	90
46)	XYLENES (TOTAL)	18.33	106.0	8167^	10.09	ug/L ✗	78
48)	4-BROMOFLUOROBENZENE	19.68	95.0	94147M	52.59	ug/L ✓	74

* Compound is ISTD

✗ not a hit
PSL
10/1/91

✗ calibrated to 400 µg/L

>K9S05 9109L758-002 AK9S01AK9D 5PT H2O 5L E CARPENTER 5ML #HP

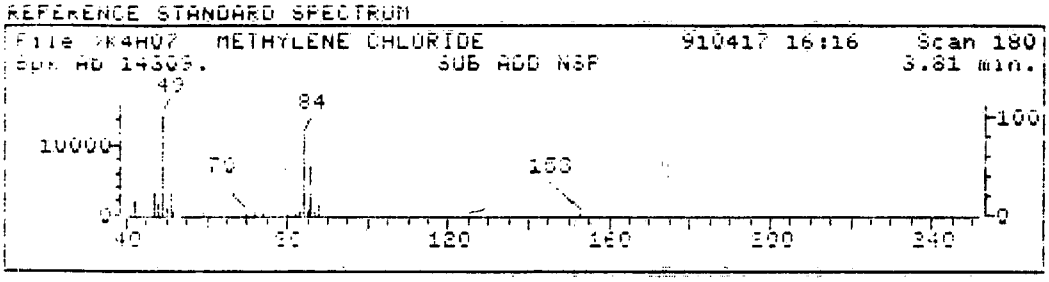
000045

35.0| 270.0 SMT TIC
Upslope: .01 Area Reject: 10.00 % Max Peaks: 26 Bunching: 1
Dnslope: 0.00 Results File VDIR72 Sorted by Time/Area INT

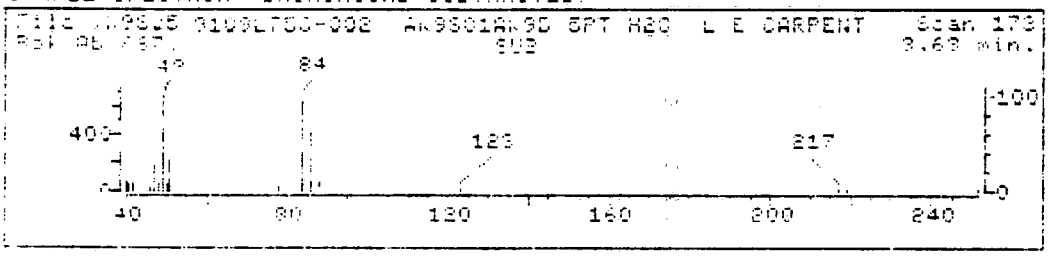
Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area		corr. % max.	% of total
1	16.52	788	796	802	207698	2885387	2034111	15	13.22	1.01
2	16.81	802	810	817	358774	4652615	3736673	—	24.28	1.857
3	17.05	817	822	827	140337	2178915	1565520	TC	10.17	.778
4	17.38	827	838	851	576650	8995678	7528046	TC	48.91	3.742
5	18.09	861	872	878	344226	6215910	5172358	1	33.60	2.57
6	18.27	878	881	885	250695	2508342	2077403	—	13.50	1.033
7	18.56	885	895	901	772589	11604328	10620524	2	69.00	5.279
8	18.85	901	909	912	801623	9890836	9213440	3	59.86	4.580
9	19.02	912	917	921	850841	9541622	8987198	4	58.39	4.468
10	19.20	921	926	932	975184	12180352	11502814	5	74.73	5.718
11	19.43	932	937	945	872423	11975130	11174448	6	72.60	5.555
12	19.64	945	947	952	447057	3925613	3493831	55	22.70	1.737
13	19.95	952	962	967	905774	13642988	12719144	7	82.63	6.323
14	20.19	967	974	981	1041779	15500474	14638052	8	95.10	7.277
15	20.53	981	990	993	715356	10223496	9483860	9	61.62	4.714
16	20.65	993	996	1003	710651	8089310	7472526	10	48.55	3.715
17	21.00	1003	1013	1023	679625	14737486	13505420	11	87.74	6.714
18	21.37	1023	1031	1041	541214	11014776	9905660	12	64.36	4.924
19	21.93	1041	1058	1064	786295	16809344	15391960	13	100.00	7.651
20	22.22	1064	1072	1078	858686	13354680	12491192	14	81.15	6.209
21	22.39	1078	1080	1085	628844	5120766	4688642	—	30.46	2.33
22	22.59	1085	1090	1104	670733	12307450	11136018	15	72.35	5.538
23	22.99	1104	1109	1110	275615	2288579	1918178	—	12.46	.954
24	23.11	1111	1115	1120	295395	3662162	3107087	—	20.19	1.545
25	23.34	1120	1126	1134	394011	5802661	4938906	—	32.09	2.455
26	23.65	1134	1141	1148	207090	3527665	2663875	—	17.31	1.324

Sum of corrected areas: 201166910.

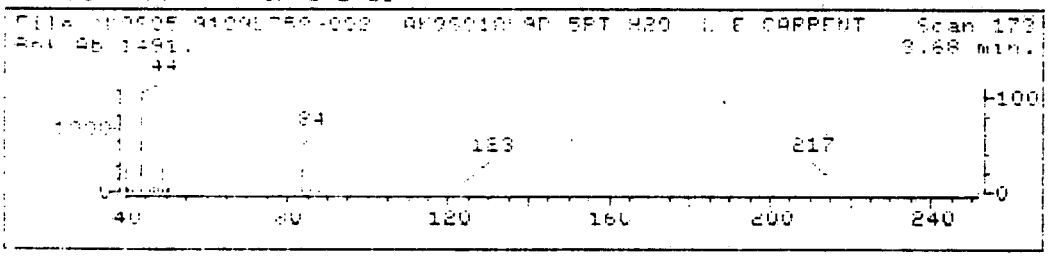
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



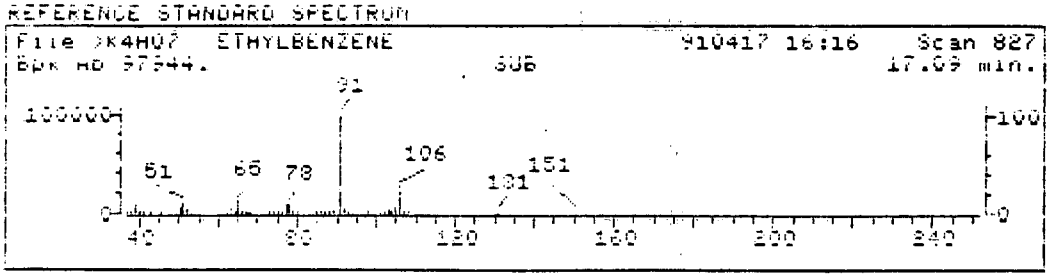
SAMPLE SPECTRUM (UNALTERED)



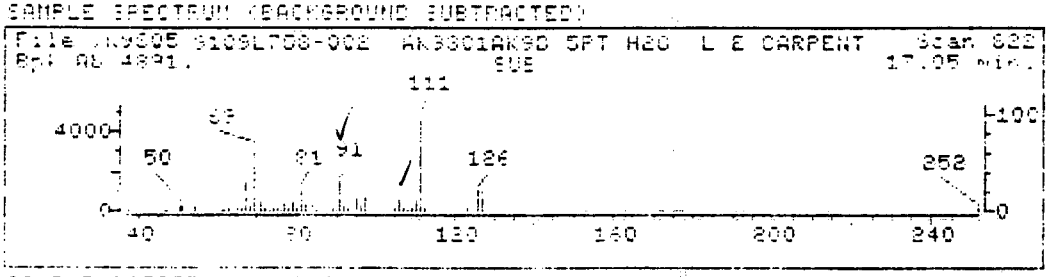
Data File: >K9S05::D2 Quant Output File: ^K9S05::OQ
Name: 9109L758-002 AK9S01
Misc: AK9D 5PT H2O L E CARPENTER 5ML #HP-MSD K BB
Quant Time: 910928 15:33 Quant ID File: I_K9SA::OQ
Injected at: 910928 15:02 Last Calibration: 910928 13:14

Compound No: 12
Compound Name: METHYLENE CHLORIDE
Scan Number: 173
Retention Time: 3.68 min.
Quant Ion: 84.0
Area: 5929
Concentration: 7.32 ug/L
q-value: 61

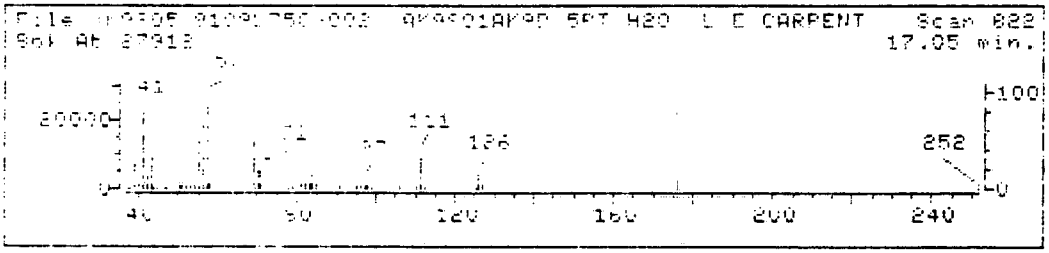
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

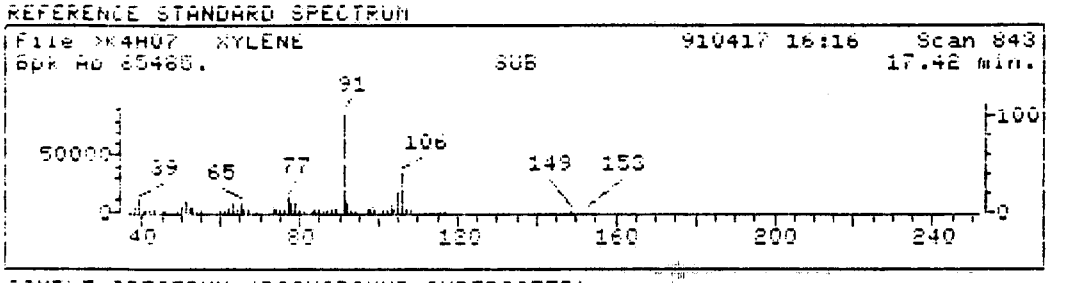


Data File: >K9S05::D2 Quant Output File: ^K9S05::QQ
Name: 9109L758-002 AK9S01
Misc: AK9D 5PT H2O L E CARPENTER 5ML #HP-MSD K BB
Quant Time: 910928 15:33 Quant ID File: I_K9SA::QQ
Injected at: 910928 15:02 Last Calibration: 910928 13:14

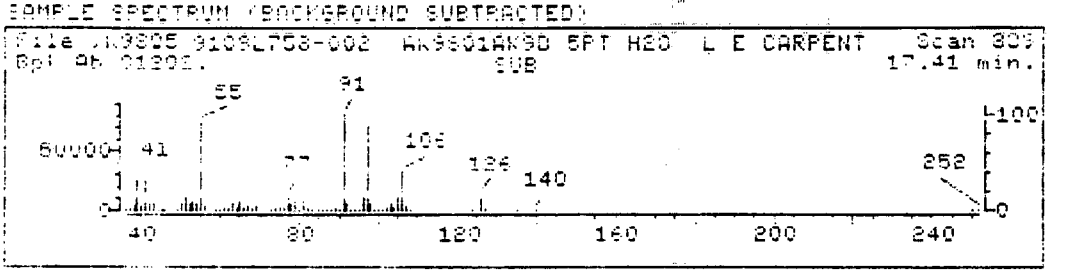
Compound No: 43
Compound Name: ETHYLBENZENE
Scan Number: 822
Retention Time: 17.05 min.
Quant Ion: 106.0
Area: 3195
Concentration: 4.92 ug/L
q-value: 95

* ~~Not a hit~~
PSK
10/1/91

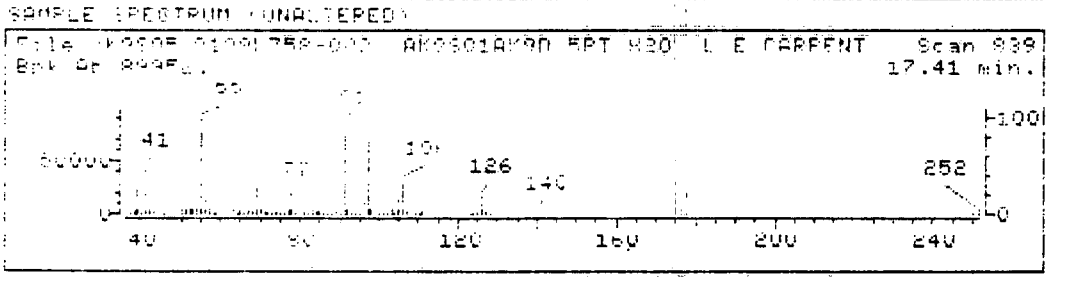
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

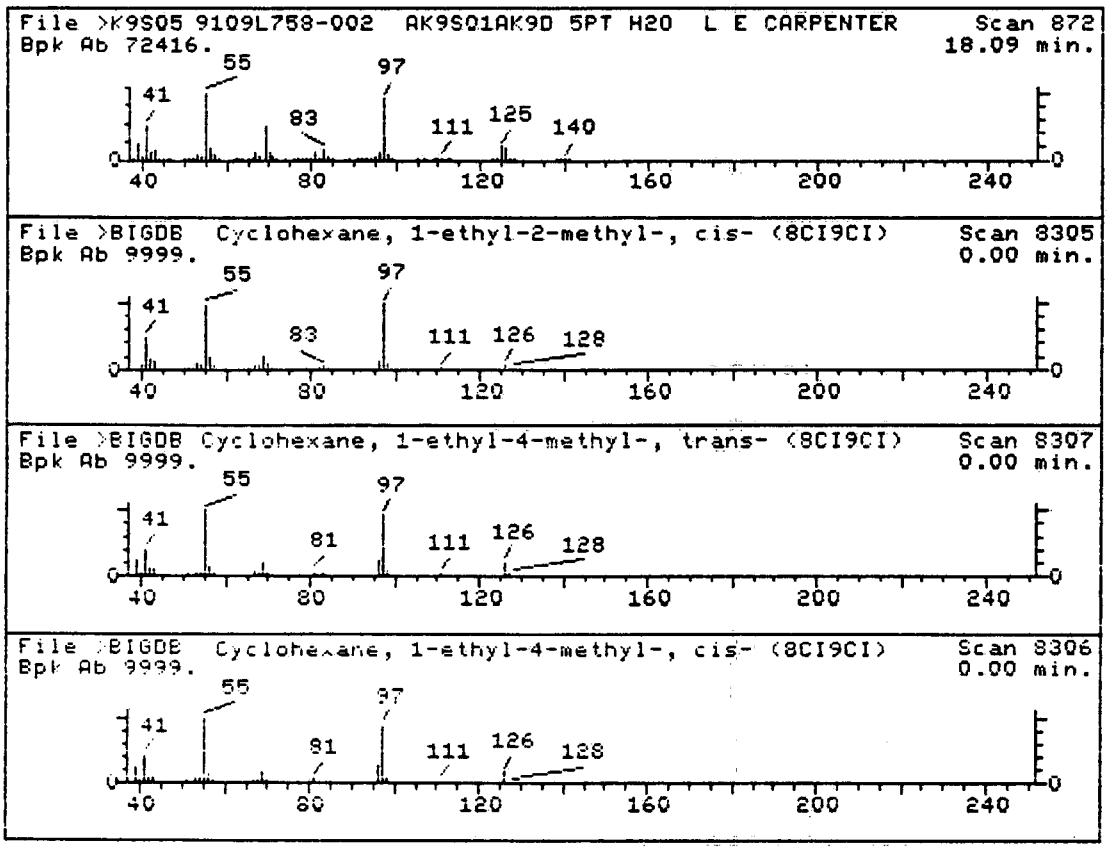


SAMPLE SPECTRUM (UNALTERED)



Data File: >K9S05::D2 Quant Output File: ^K9S05::QQ
Name: 9109L758-002 AK9S01
Misc: AK9D 5PT H2O L E CARPENTER 5ML #HP-MSD K BB
Quant Time: 910928 15:33 Quant ID File: I_K9SA::QQ
Injected at: 910928 15:02 Last Calibration: 910928 13:14

Compound No: 45
Compound Name: XYLENE
Scan Number: 839
Retention Time: 17.41 min.
Quant Ion: 106.0
Area: 273188
Concentration: 346.83 ug/L
q-value: 90

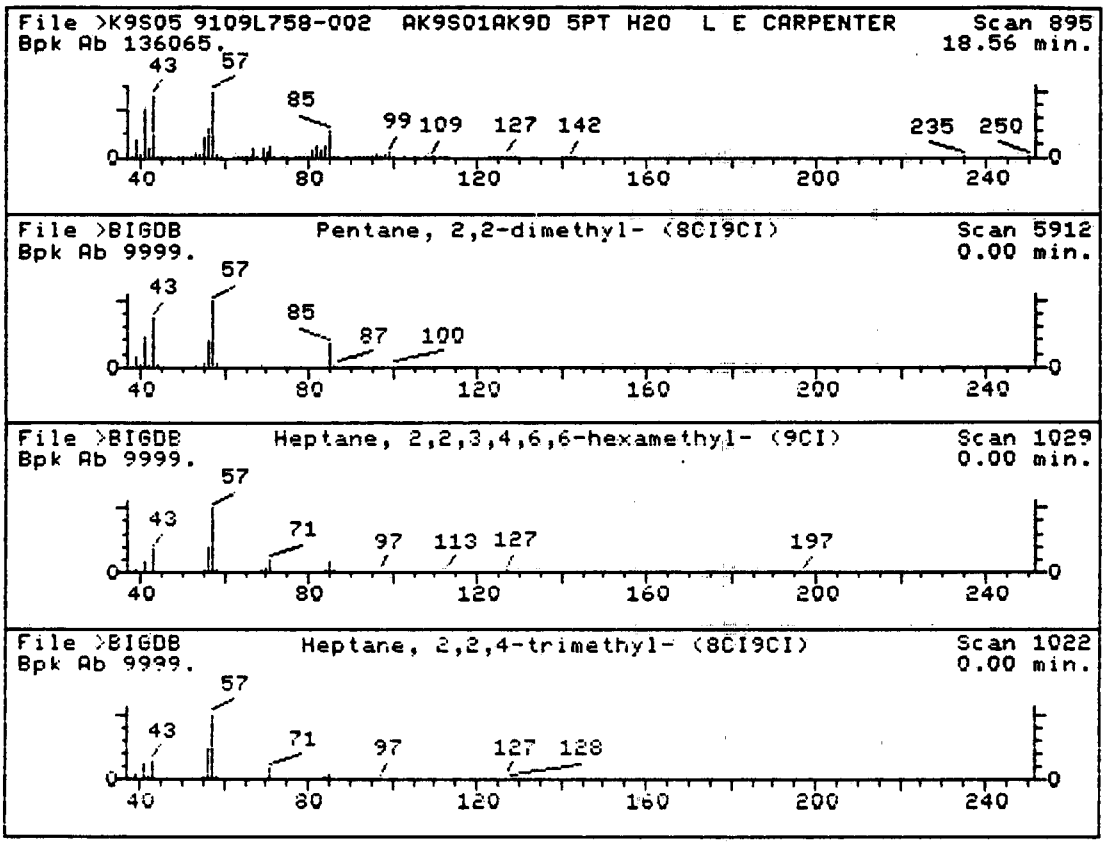


1. Cyclohexane, 1-ethyl-2-methyl-, cis- (8CI9CI) 126 C9H18
2. Cyclohexane, 1-ethyl-4-methyl-, trans- (8CI9CI) 126 C9H18
3. Cyclohexane, 1-ethyl-4-methyl-, cis- (8CI9CI) 126 C9H18
4. Cyclohexane, 1-methyl-2-propyl- (8CI9CI) 140 C10H20
5. 2-Pyrazoline, 5-ethyl-1,4-dimethyl- (8CI) 126 C7H14N2

Sample file: >K9S05 Spectrum #: 872
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	71*	4923777	8305	"BIGDB	63	29	1	0	88	28	29	60
2.	58*	6236880	8307	"BIGDB	58	38	2	0	97	30	24	38
3.	56*	4926787	8306	"BIGDB	57	39	2	0	100	28	24	36
4.	52	4291796	8341	"BIGDB	67	22	1	0	95	30	24	32
5.	51*	14339232	8309	"BIGDB	37	45	0	0	68	39	19	42

$$\text{Conc} = \frac{50}{2034111} \times 5172358 \times 1 = 127.14$$



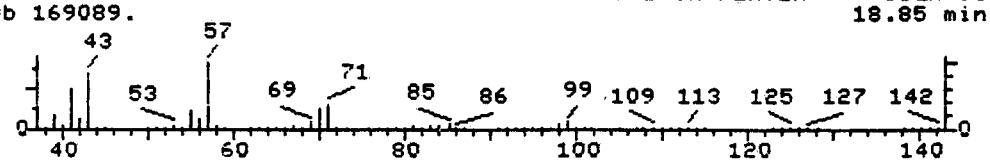
1. Pentane, 2,2-dimethyl- (8CI9CI)	100	C7H16
2. Heptane, 2,2,3,4,6,6-hexamethyl- (9CI)	184	C13H28
3. Heptane, 2,2,4-trimethyl- (8CI9CI)	142	C10H22
4. Octane, 2,4,6-trimethyl- (9CI)	156	C11H24
5. Pyrrolidine, 1-methyl- (8CI9CI)	85	C5H11N

Sample file: >K9S05 Spectrum #: 895
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

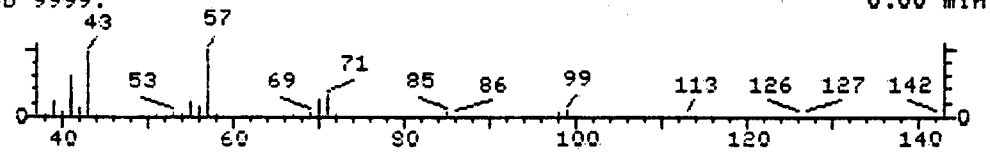
	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	58	590352	5912	"BIGDB	43	41	0	0	94	17	25	24
2.	38	62108321	1029	"BIGDB	43	44	1	0	96	29	14	15
3.	34	14720742	1022	"BIGDB	31	50	0	0	95	32	12	17
4.	33	62016379	6004	"BIGDB	43	42	0	0	69	43	12	24
5.	31*	120945	5716	"BIGDB	30	68	2	0	100	33	12	14

$$\text{CONC} = \frac{50}{2034111} \times 10620524 \times 1 = 261.06$$

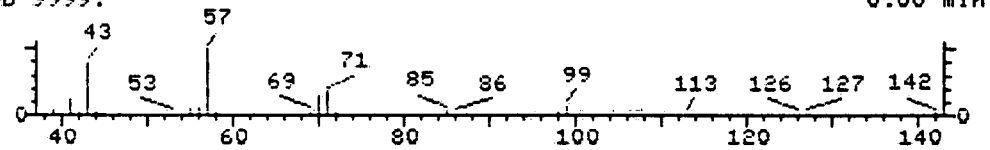
File >K9S05 9109L758-002 AK9S01AK9D 5PT H2O L E CARPENTER Scan 909
Bpk Ab 169089. 18.85 min.



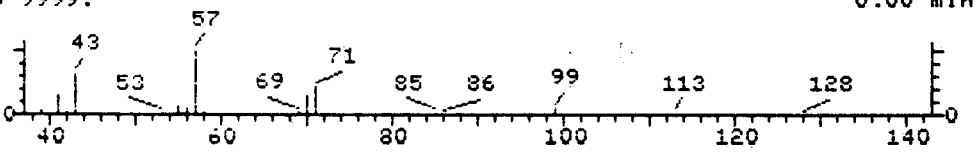
File >BI6DB Octane, 3,5-dimethyl- (8CI9CI) Scan 3611
Bpk Ab 9999. 0.00 min.



File >BIGDB Octane, 2,5-dimethyl- (8CI9CI) Scan 8749
Bpk Ab 9999. 0.00 min.



File >BIGDB Pentane, 2,2,3,3-tetramethyl- (8CI9CI) Scan 8746
Bpk Ab 9999. 0.00 min.



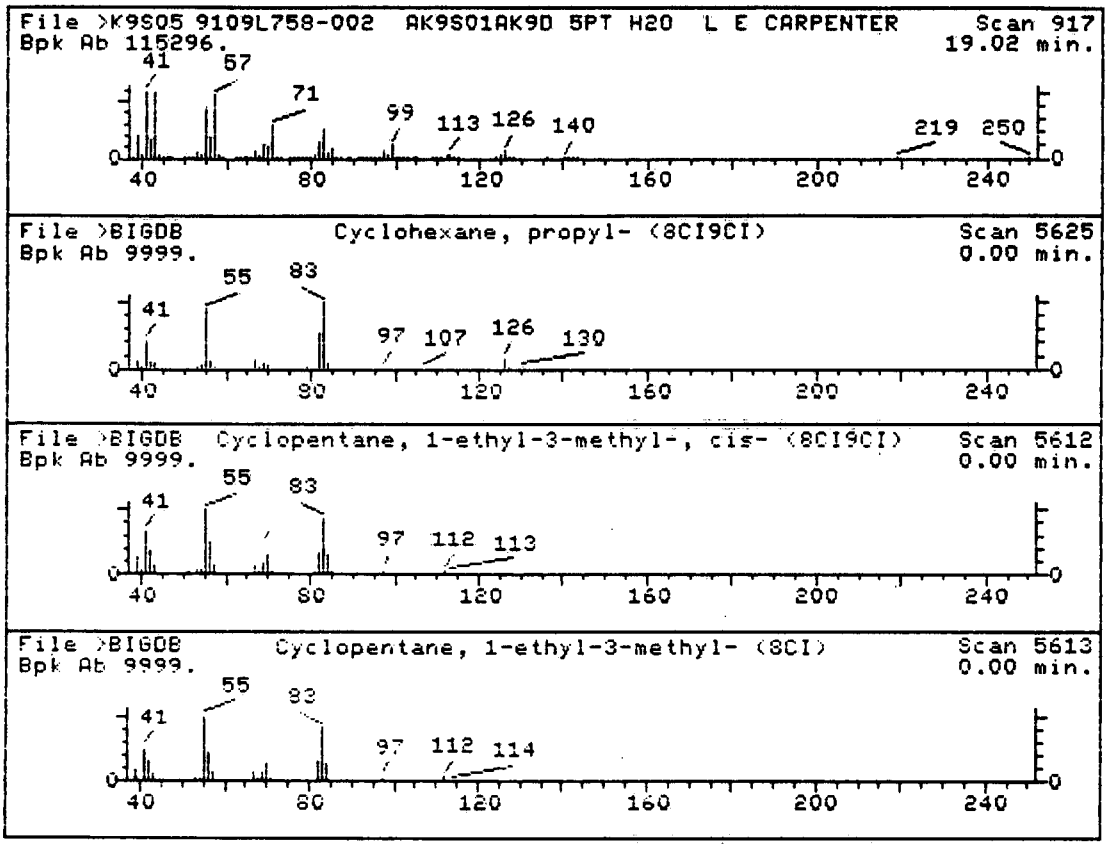
1.	Octane, 3,5-dimethyl- (8CI9CI)	142	C10H22
2.	Octane, 2,5-dimethyl- (8CI9CI)	142	C10H22
3.	Pentane, 2,2,3,3-tetramethyl- (8CI9CI)	128	C9H20
4.	Heptane, 2,3,4-trimethyl- (9CI)	142	C10H22
5.	Nonane, 4-methyl- (8CI9CI)	142	C10H22

Sample file: >K9S05 Spectrum #: 909
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	93*	15869939	3611	"BIGDB	70	23	0	0	88	4	68	89
2.	89*	15869893	8749	"BIGDB	74	18	1	0	74	4	66	77
3.	79	7154792	8746	"BIGDB	56	33	0	0	90	7	48	34
4.	79	52896954	8759	"BIGDB	56	34	0	0	87	7	48	34
5.	76	17301949	3768	"BIGDB	66	34	2	0	75	7	45	23

$$\text{CONC} = \frac{50}{2034111} \times 9213440 \times 1 = 226.47$$

0000052

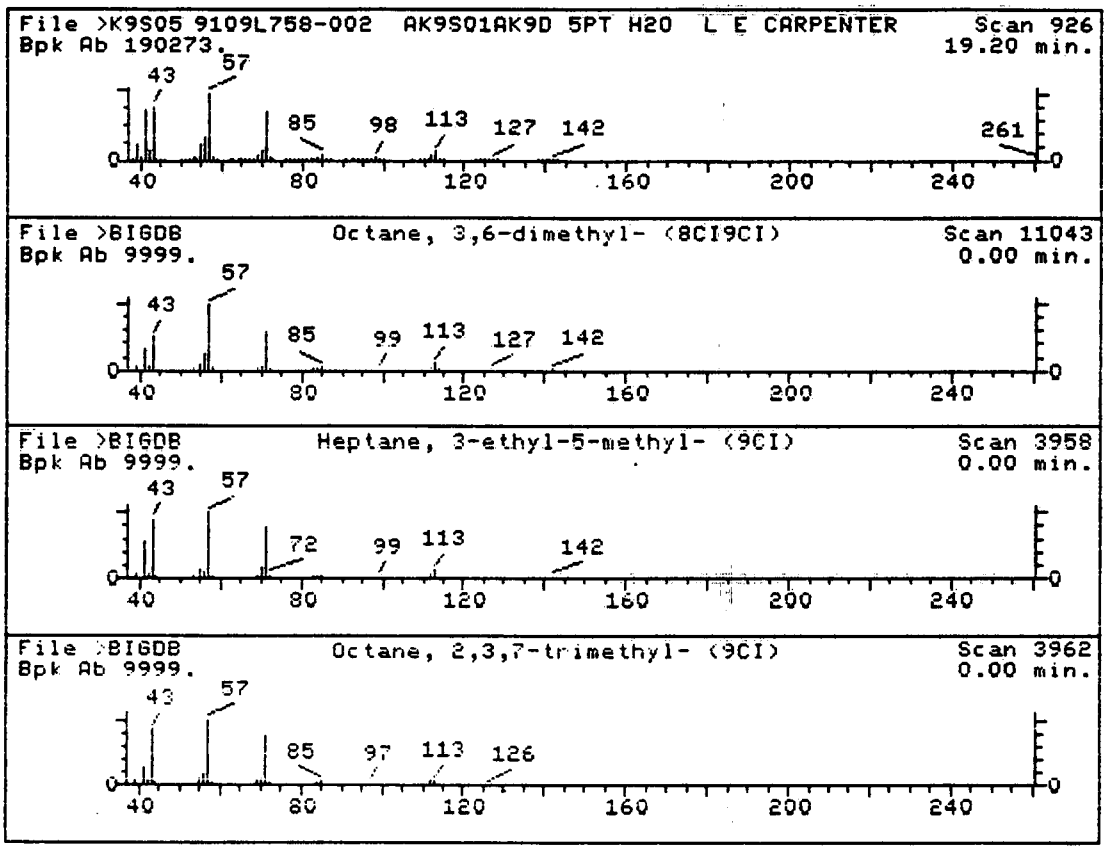


1.	Cyclohexane, propyl- (8CI9CI)	126	C9H18
2.	Cyclopentane, 1-ethyl-3-methyl-, cis- (8CI9CI)	112	C8H16
3.	Cyclopentane, 1-ethyl-3-methyl- (8CI)	112	C8H16
4.	Ethanone, 1-(3-ethylcyclobutyl)- (9CI)	126	C8H14O
5.	Cyclopentane, (2-methylpropyl)- (9CI)	126	C9H18

Sample file: >K9S05 Spectrum #: 917
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	28*	1678928	5625	"BIGDB	33	49	0	0	45	53	8	30
2.	26*	2613663	5612	"BIGDB	60	48	1	0	52	57	7	56
3.	21*	3726474	5613	"BIGDB	52	55	1	0	55	57	5	35
4.	20*	56335718	3981	"BIGDB	29	76	2	0	66	54	5	14
5.	20*	3788327	5415	"BIGDB	27	91	3	0	63	54	5	13

$$\text{Conc} = \frac{50}{2034111} \times 8987198 \times 1 = 220.91$$

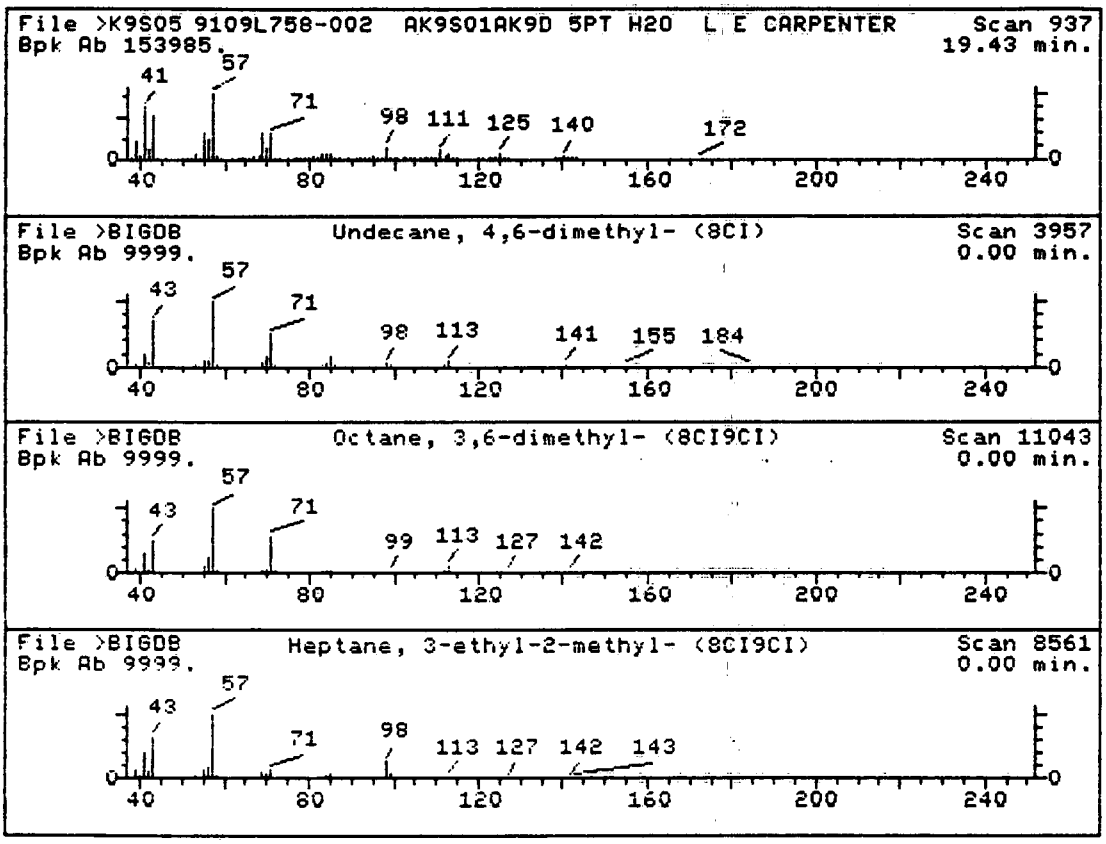


1. Octane, 3,6-dimethyl- (8CI9CI)	142	C10H22
2. Heptane, 3-ethyl-5-methyl- (9CI)	142	C10H22
3. Octane, 2,3,7-trimethyl- (9CI)	156	C11H24
4. Octane, 2,3,6-trimethyl- (9CI)	156	C11H24
5. Octane, 2,6-dimethyl- (8CI9CI)	142	C10H22

Sample file: >K9S05 Spectrum #: 926
Search speed: 1 Tilting option: N No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	89*	15869940	11043	"BIGDB	50	39	0	0	94	4	66	60
2.	83*	52896909	3958	"BIGDB	59	35	0	0	87	12	51	72
3.	79	62016346	3962	"BIGDB	61	32	0	0	87	9	48	38
4.	67	62016335	3961	"BIGDB	59	33	1	0	73	12	34	26
5.	63*	2051301	11038	"BIGDB	49	46	1	0	70	16	30	33

$$\text{CONC} = \frac{50}{2034111} \times 1502814 \times 1 = 282.75$$

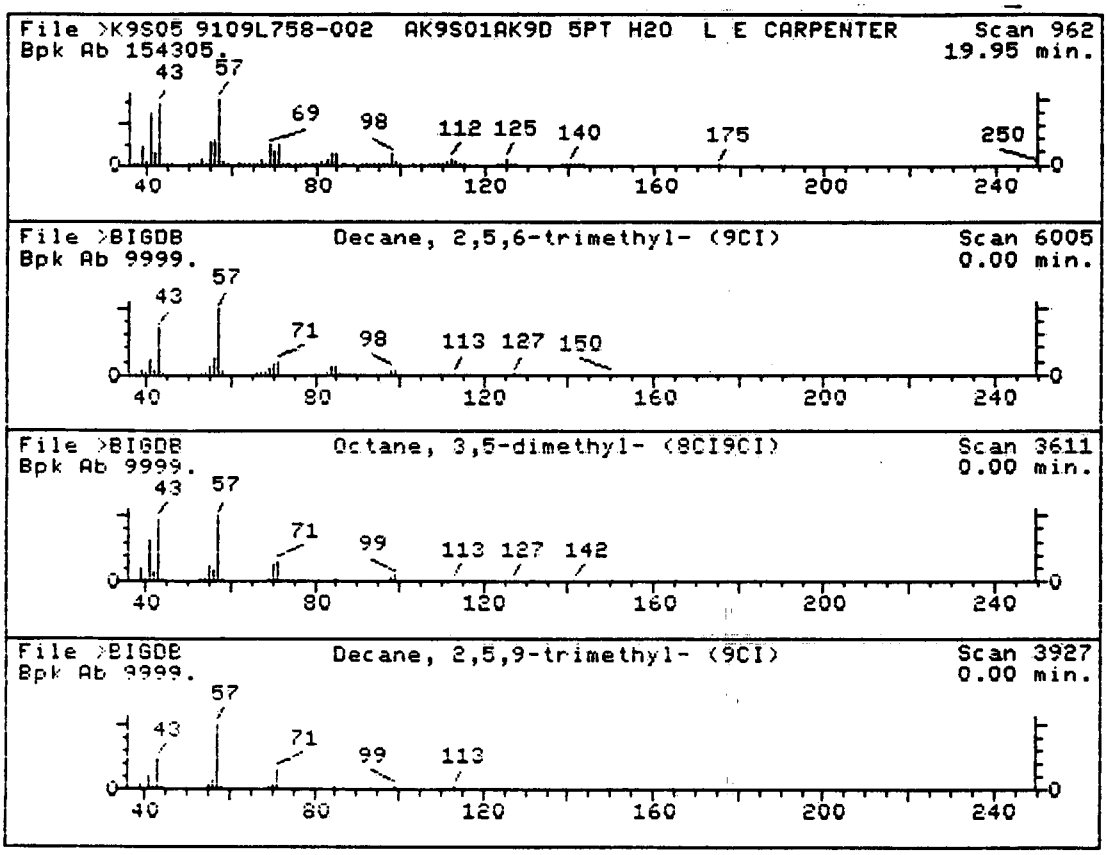


1. Undecane, 4,6-dimethyl- (8CI)	184	C13H28
2. Octane, 3,6-dimethyl- (8CI9CI)	142	C10H22
3. Heptane, 3-ethyl-2-methyl- (8CI9CI)	142	C10H22
4. Heptane, 2,2-dimethyl- (8CI9CI)	128	C9H20
5. Heptane, 3-ethyl-5-methyl- (9CI)	142	C10H22

Sample file: >K9S05 Spectrum #: 937
Search speed: 1 Tilting option: N No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	52	17312822	3957	"BIGDB	54	44	2	0	78	19	20	14
2.	46*	15869940	11043	"BIGDB	32	57	1	0	67	25	17	17
3.	33*	14676290	8561	"BIGDB	37	54	1	0	72	38	10	19
4.	31	1071267	1093	"BIGDB	30	49	0	0	68	38	10	17
5.	30*	52896909	3958	"BIGDB	38	56	1	0	50	44	12	21

$$\text{Conc} = \frac{50}{2034111} \times 11174448 \times 1 = 274.68$$

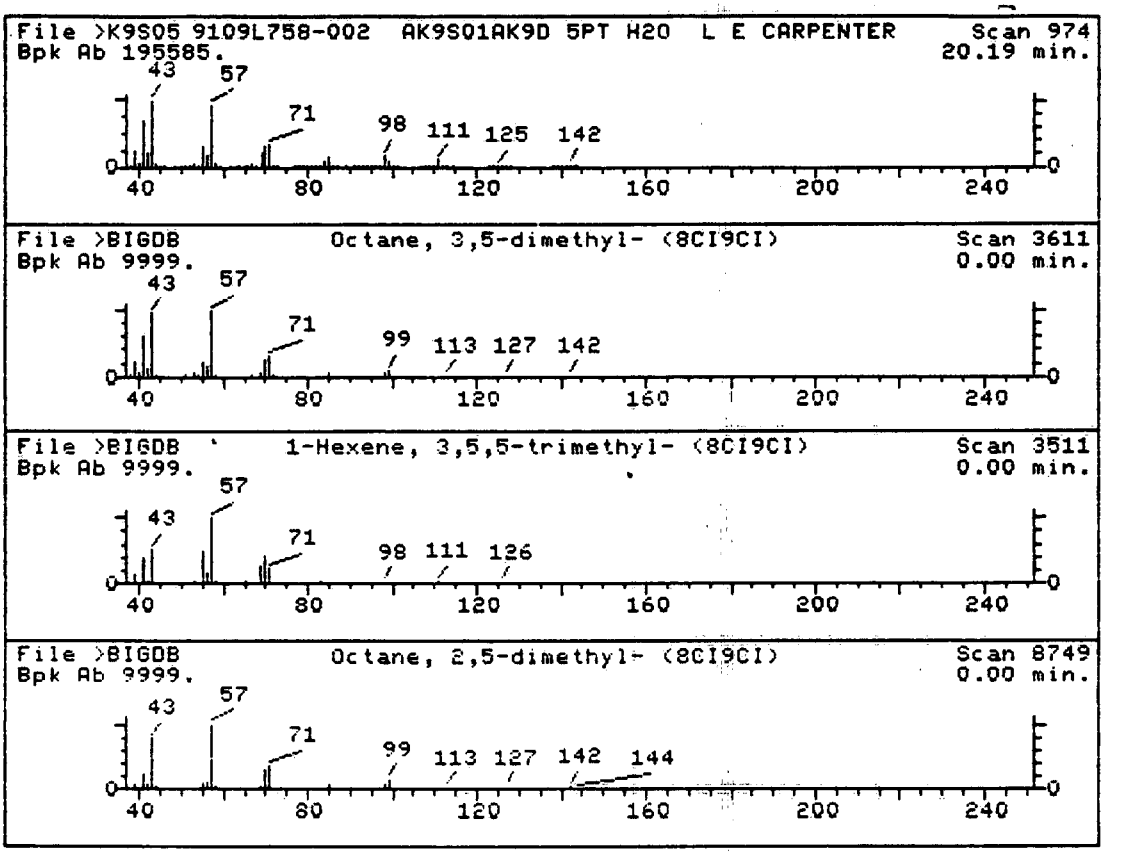


1.	Decane, 2,5,6-trimethyl- (9CI)	184	C13H28
2.	Octane, 3,5-dimethyl- (8CI9CI)	142	C10H22
3.	Decane, 2,5,9-trimethyl- (9CI)	184	C13H28
4.	Octane, 4-ethyl- (8CI9CI)	142	C10H22
5.	Nonane, 2-methyl- (8CI9CI)	142	C10H22

Sample file: >K9S05 Spectrum #: 962
Search speed: 1 Tilting option: N No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	70	62108230	6005	"BIGDB	60	41	2	0	100	8	42	17
2.	49*	15869939	3611	"BIGDB	45	48	1	0	83	27	19	27
3.	42	62108229	3927	"BIGDB	38	53	0	0	90	30	14	19
4.	40*	15869860	10847	"BIGDB	31	62	1	0	100	26	14	17
5.	37*	871830	8635	"BIGDB	43	53	3	0	94	30	14	14

$$\text{Conc} = \frac{50}{2034111} \times 1271914 \times 1 = 312.65$$

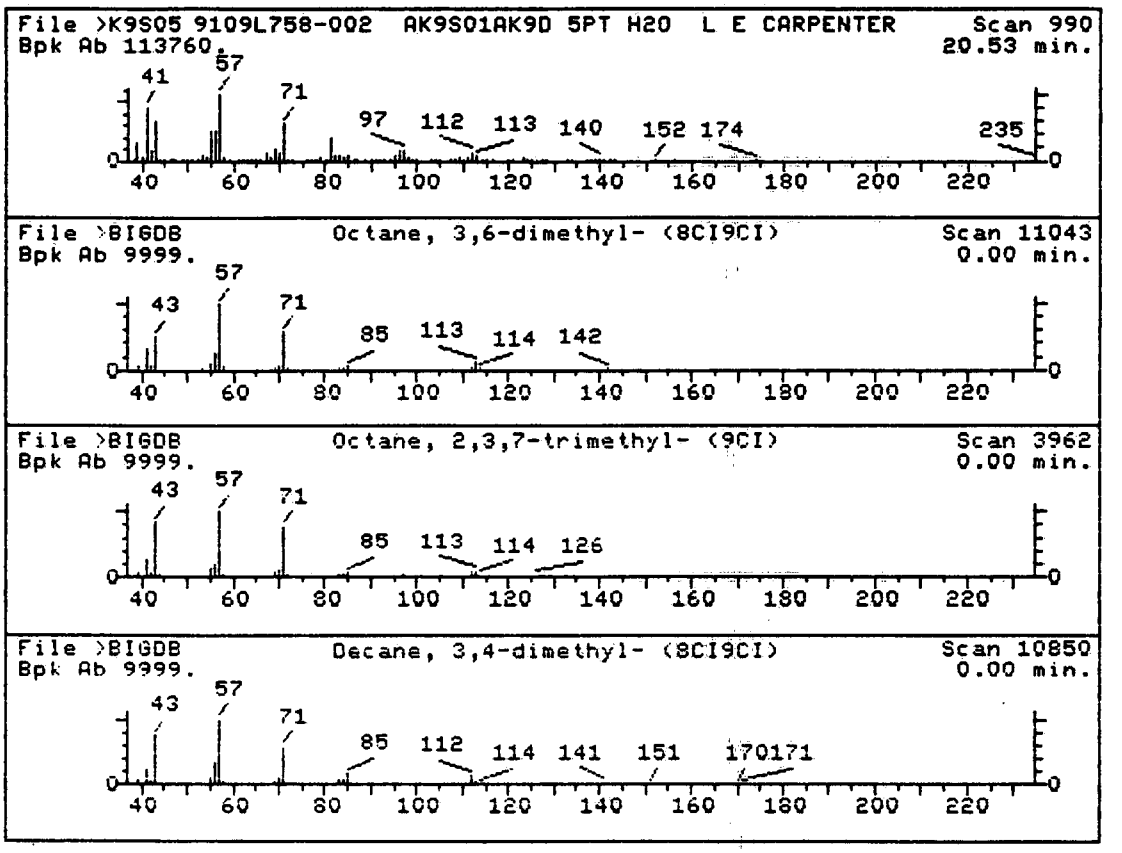


1. Octane, 3,5-dimethyl- (8CI9CI)	142	C10H22
2. 1-Hexene, 3,5,5-trimethyl- (8CI9CI)	126	C9H18
3. Octane, 2,5-dimethyl- (8CI9CI)	142	C10H22
4. Heptane, 2,3,4-trimethyl- (9CI)	142	C10H22
5. Pentane, 2,2,3,3-tetramethyl- (8CI9CI)	128	C9H20

Sample file: >K9S05 Spectrum #: 974
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	79*	15869939	3611	"BIGDB	51	42	0	0	89	15	43	61
2.	62*	4316658	3511	"BIGDB	37	53	0	0	63	30	25	41
3.	58*	15869893	8749	"BIGDB	41	51	1	0	69	18	25	23
4.	58	52896954	8759	"BIGDB	50	40	0	0	80	18	25	29
5.	52	7154792	8746	"BIGDB	43	46	1	0	77	20	20	15

$$\text{CONC} = \frac{50}{2034111} \times 14638052 \times 1 = 359.81$$

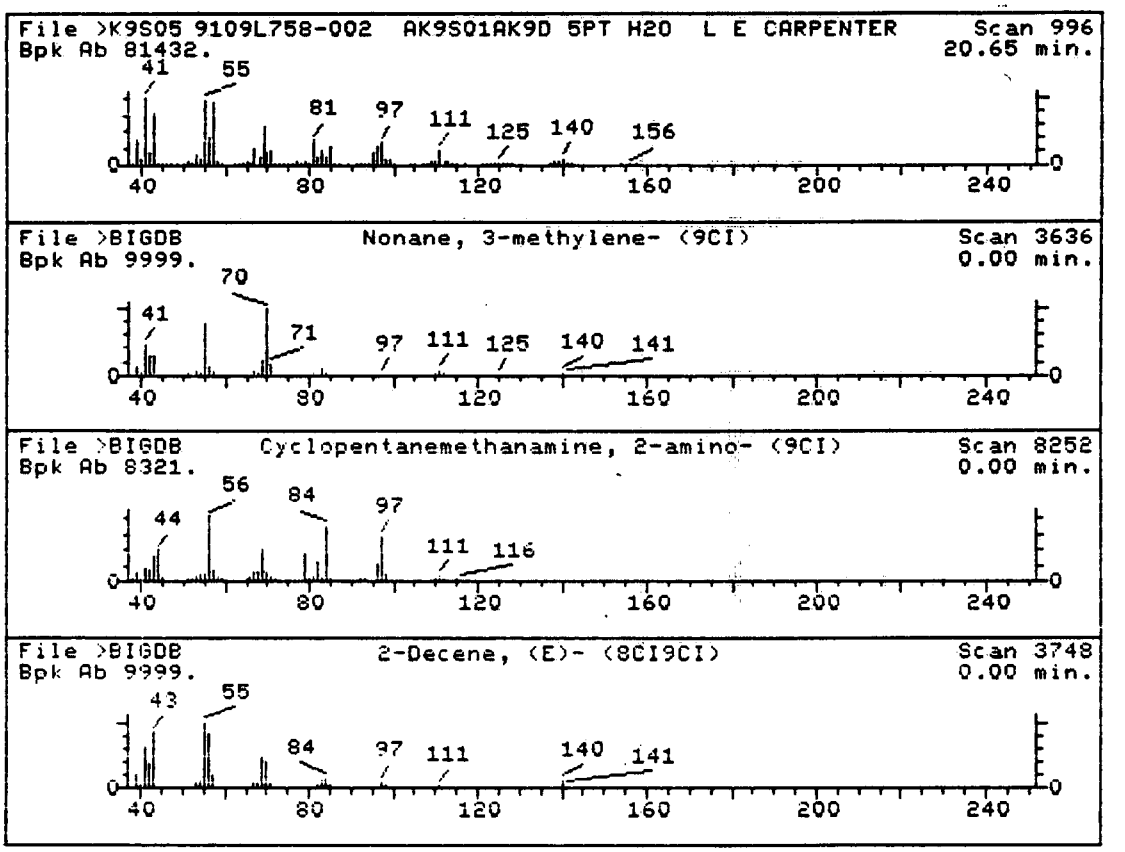


1.	Octane, 3,6-dimethyl- (8CI9CI)	142	C10H22
2.	Octane, 2,3,7-trimethyl- (9CI)	156	C11H24
3.	Decane, 3,4-dimethyl- (8CI9CI)	170	C12H26
4.	Octane, 3-ethyl- (8CI9CI)	142	C10H22
5.	1-Hexene, 5,5-dimethyl- (8CI9CI)	112	C8H16

Sample file: >K9S05 Spectrum #: 990
Search speed: 1 Tilting option: N No. of ion ranges searched: 44

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	62*	15869940	11043	"BIGDB	37	52	0	0	70	30	25	42
2.	59	62016346	3962	"BIGDB	62	31	0	0	69	27	24	39
3.	52	17312457	10850	"BIGDB	51	45	2	0	79	20	20	14
4.	51*	5881174	3951	"BIGDB	51	42	0	0	54	46	14	61
5.	37*	7116861	8273	"BIGDB	31	52	0	0	81	40	14	24

$$\text{CONC} = \frac{50}{2034111} \times 9483860 \times 1 = 233.12$$

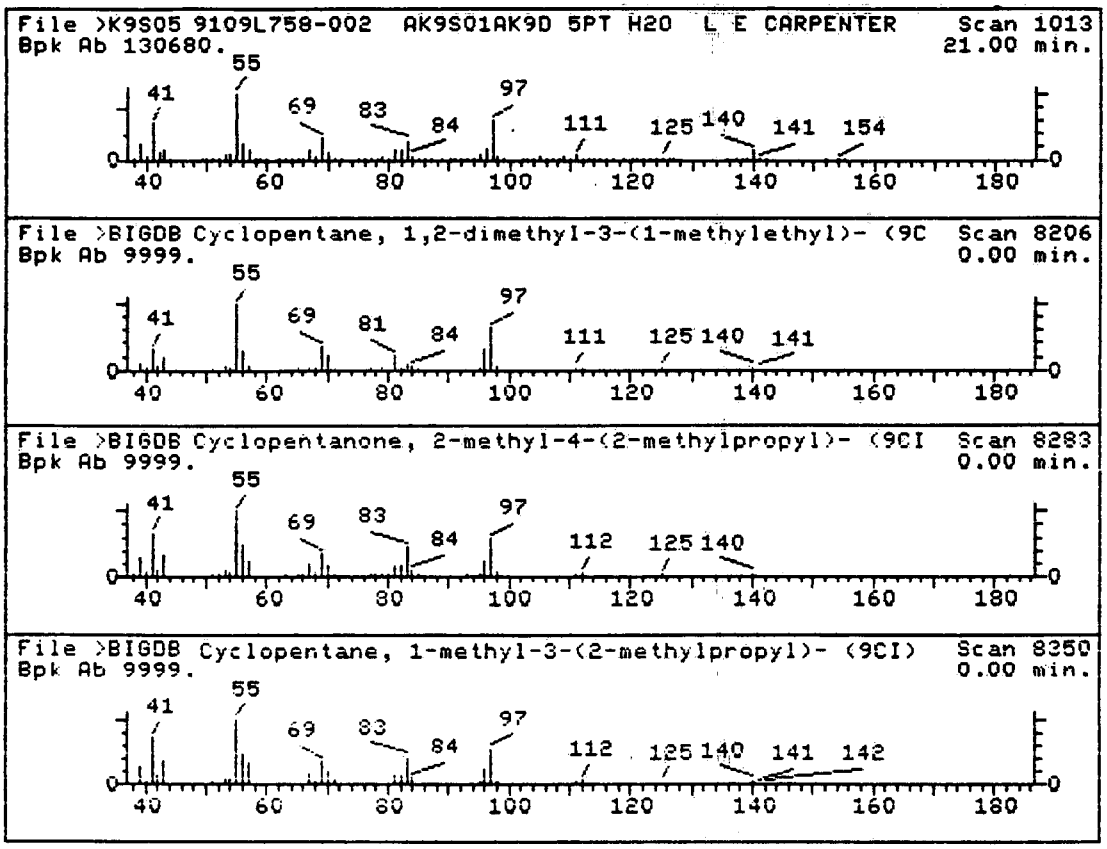


1. Nonane, 3-methylene- (9CI)	140	C10H20
2. Cyclopentanemethanamine, 2-amino- (9CI)	114	C6H14N2
3. 2-Decene, (E)- (8CI9CI)	140	C10H20
4. 4-Decene, 6-methyl-, (E)- (9CI)	154	C11H22
5. Lactic acid, monoanhydride with 1-butaneboronic acid , cyclic ester (8CI)	156	C7H13BO3

Sample file: >K9S05 Spectrum #: 996
Search speed: 1 Tilting option: N No. of ion ranges searched: 57

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	25*	51655642	3636	"BIGDB	37	54	3	0	252	50	7	13
2.	25*	21544025	8252	"BIGDB	37	62	2	0	48	50	7	14
3.	21*	20063972	3748	"BIGDB	38	57	0	0	42	60	5	35
4.	20	36229579	8376	"BIGDB	39	53	1	0	96	53	5	13
5.	20*	24372018	10857	"BIGDB	27	91	3	0	63	53	5	13

$$\text{CONC} = \frac{50}{2034111} \times 7472526 \times 1 = 183.68$$

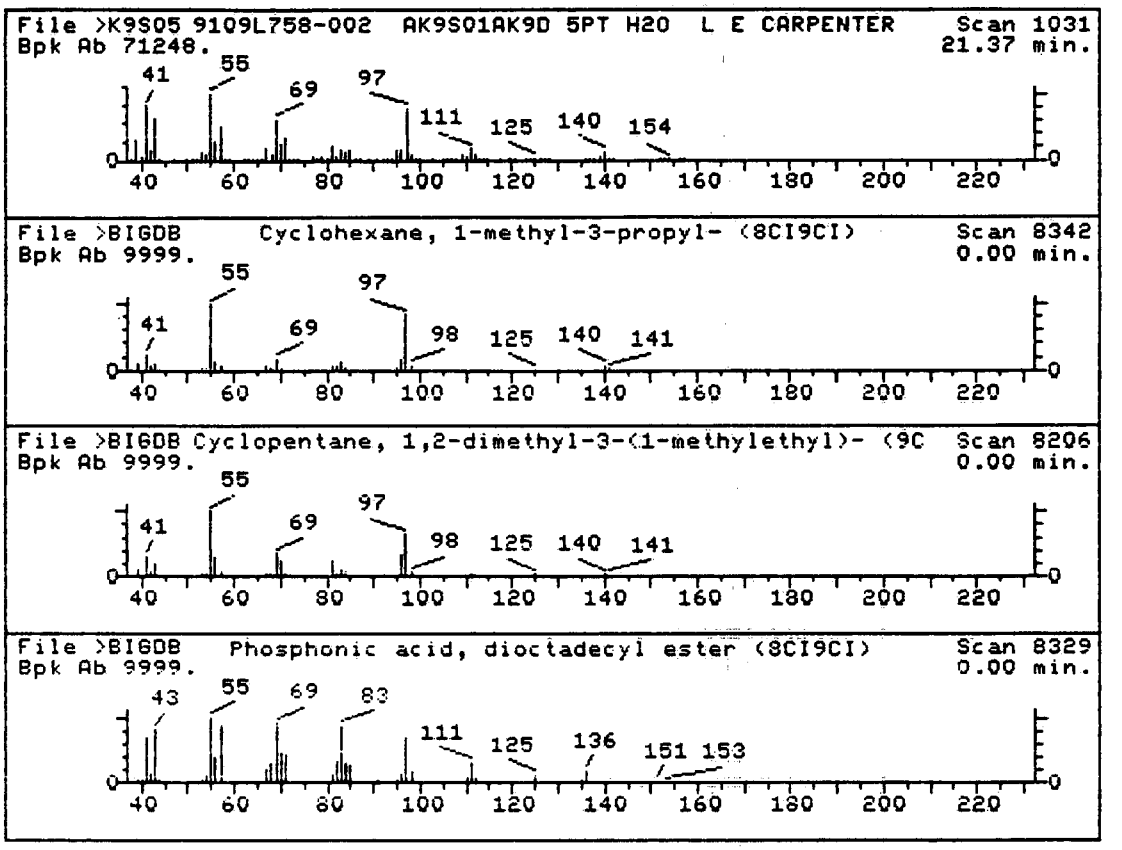


1. Cyclopentane, 1,2-dimethyl-3-(1-methylethyl)- (9CI) 140 C10H20
2. Cyclopentanone, 2-methyl-4-(2-methylpropyl)- (9CI) 154 C10H18O
3. Cyclopentane, 1-methyl-3-(2-methylpropyl)- (9CI) 140 C10H20
4. Cyclohexane, 1,1-dimethyl- (8CI9CI) 112 C8H16
5. Cyclopentane, 2-isopropyl-1,3-dimethyl- (8CI) 140 C10H20

Sample file: >K9S05 Spectrum #: 1013
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	55*	489203	8206	"BIGDB	50	47	0	0	56	45	18	60
2.	47	69770963	8283	"BIGDB	44	52	0	0	46	29	19	25
3.	47*	29053041	8350	"BIGDB	63	49	2	0	68	43	16	41
4.	45*	590669	8257	"BIGDB	47	51	0	0	54	47	13	55
5.	41*	32281859	8299	"BIGDB	42	53	1	0	45	35	16	24

$$\text{CONC} = \frac{50}{2034111} \times 13505420 \times 1 = 331.97$$

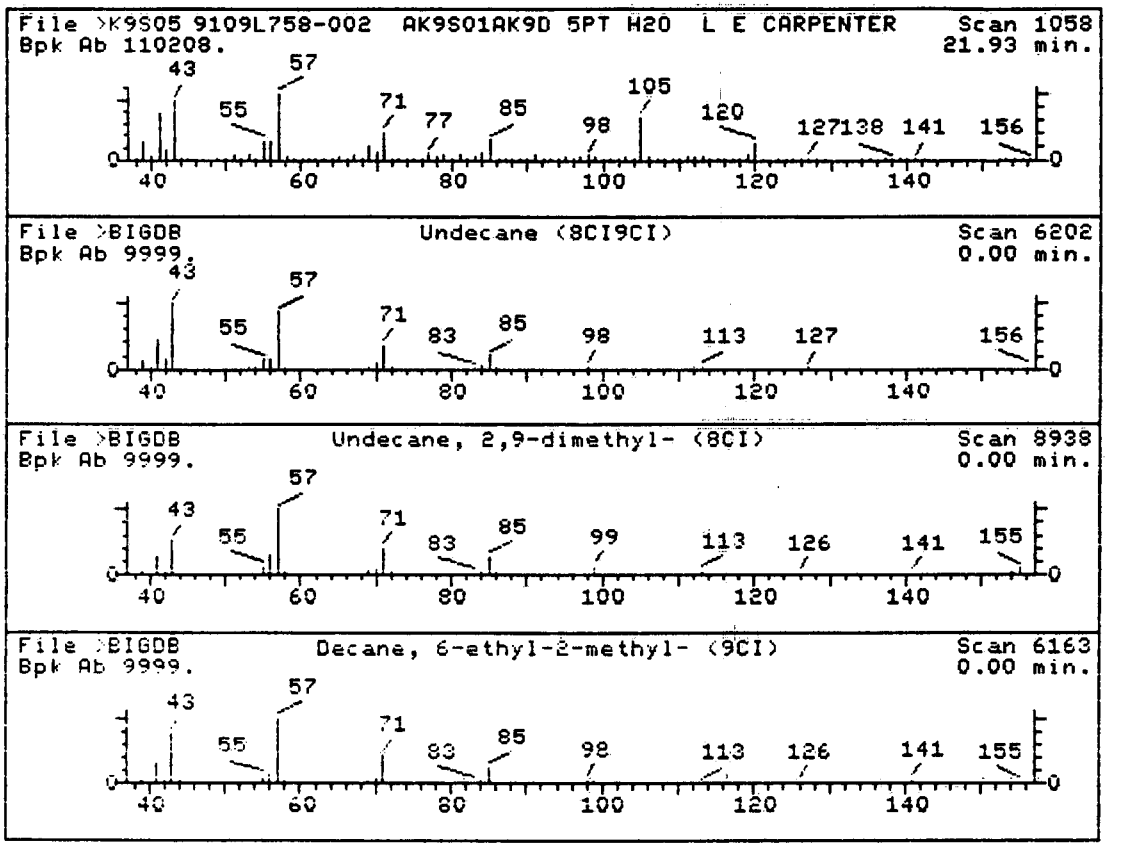


1.	Cyclohexane, 1-methyl-3-propyl- (8CI9CI)	140	C10H20
2.	Cyclopentane, 1,2-dimethyl-3-(1-methylethyl)- (9CI)	140	C10H20
3.	Phosphonic acid, dioctadecyl ester (8CI9CI)	586	C36H75O3P
4.	Cyclopentane, 1-methyl-3-(2-methylpropyl)- (9CI)	140	C10H20
5.	Cyclohexane, 1,2-dimethyl-, trans- (8CI9CI)	112	C8H16

Sample file: >K9S05 Spectrum #: 1031
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	47*	4291809	8342	"BIGDB	41	51	0	0	86	42	16	43
2.	46*	489203	8206	"BIGDB	48	49	1	0	92	32	20	30
3.	43	19047859	8329	"BIGDB	76	124	3	0	56	25	17	14
4.	39*	29053041	8350	"BIGDB	57	55	3	0	100	33	16	22
5.	37	6876239	8272	"BIGDB	63	44	2	0	72	30	14	14

$$\text{CONC} = \frac{50}{2034111} \times 9905660 \times 1 = 243.49$$

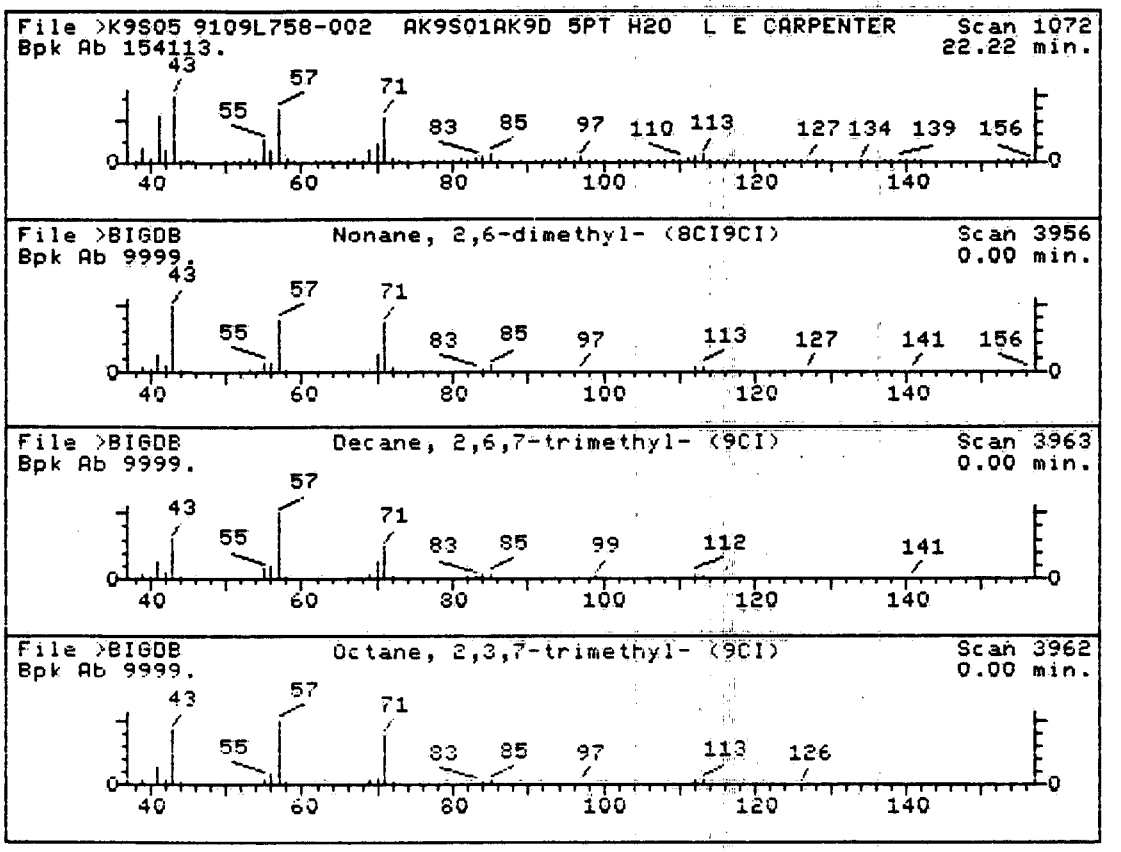


1. Undecane (8CI9CI)	156	C11H24
2. Undecane, 2,9-dimethyl- (8CI)	184	C13H28
3. Decane, 6-ethyl-2-methyl- (9CI)	184	C13H28
4. Undecane, 3,9-dimethyl- (8CI)	184	C13H28
5. Decane, 2,3,5-trimethyl- (9CI)	184	C13H28

Sample file: >K9S05 Spectrum #: 1058
Search speed: 1 Tilting option: N No. of ion ranges searched: 47

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	60	1120214	6202	"BIGDB	63	34	3	0	114	12	30	17
2.	52	17301267	8938	"BIGDB	61	40	2	0	85	20	20	17
3.	52	62108218	6163	"BIGDB	57	42	2	0	95	20	20	16
4.	52	17301314	8939	"BIGDB	59	46	2	0	95	17	20	13
5.	52	62238113	6164	"BIGDB	56	47	2	0	69	20	20	13

$$\text{CONC} = \frac{50}{2034111} \times 15391960 \times 1 = 378.35$$

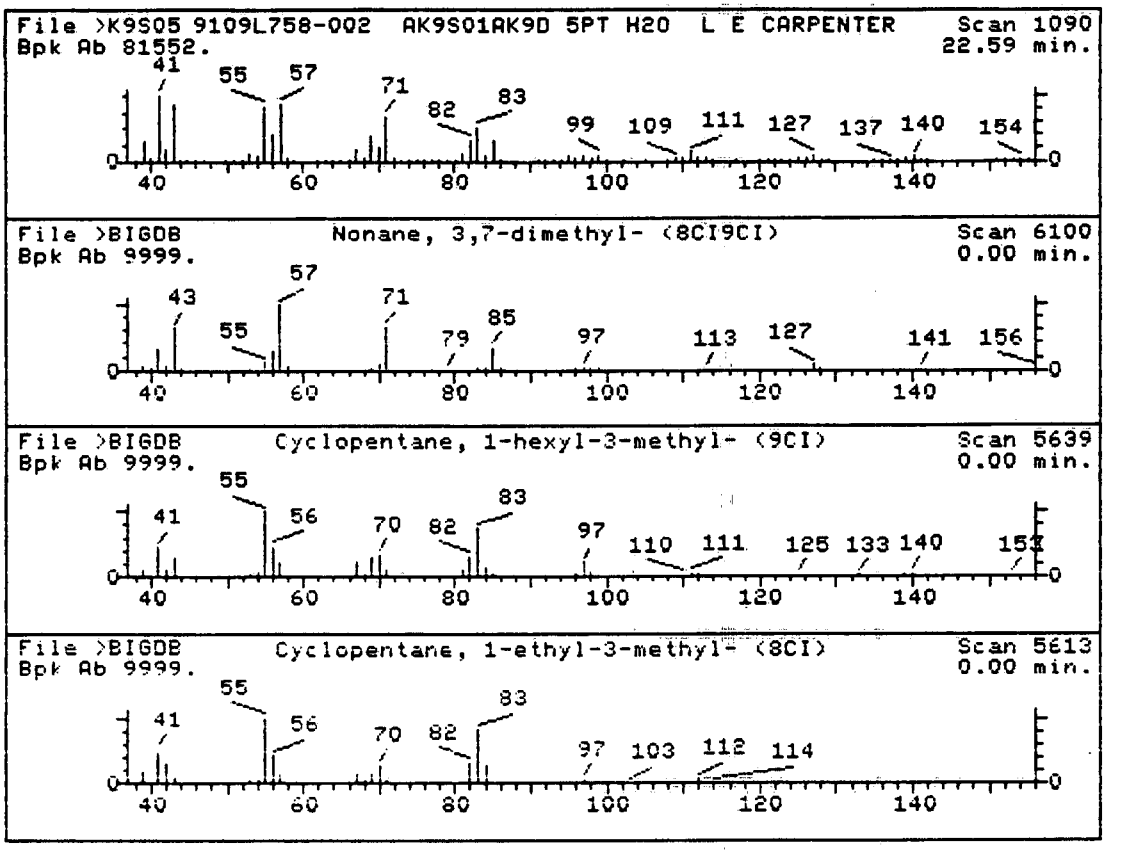


1. Nonane, 2,6-dimethyl- (8CI9CI)	156	C11H24
2. Decane, 2,6,7-trimethyl- (9CI)	184	C13H28
3. Octane, 2,3,7-trimethyl- (9CI)	156	C11H24
4. Nonane, 4,5-dimethyl- (8CI9CI)	156	C11H24
5. Octane, 2,3,6-trimethyl- (9CI)	156	C11H24

Sample file: >K9S05 Spectrum #: 1072
Search speed: 1 Tilting option: N No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	84*	17302282	3956	"BIGDB	53	38	0	0	84	8	55	65
2.	83	62108252	3963	"BIGDB	65	33	1	0	80	2	57	28
3.	71	62016346	3962	"BIGDB	58	35	0	0	80	12	38	35
4.	60*	17302237	6099	"BIGDB	41	64	3	0	85	13	30	13
5.	58	62016335	3961	"BIGDB	48	44	0	0	73	17	25	27

$$\text{CONC} = \frac{50}{2034111} \times 12491192 \times 1 = 307.04$$



1. Nonane, 3,7-dimethyl- (8CI9CI) 156 C11H24
2. Cyclopentane, 1-hexyl-3-methyl- (9CI) 168 C12H24
3. Cyclopentane, 1-ethyl-3-methyl- (8CI) 112 C8H16
4. Decane, 3-methyl- (8CI9CI) 156 C11H24
5. Octane, 6-ethyl-2-methyl- (9CI) 156 C11H24

Sample file: >K9S05 Spectrum #: 1090
Search speed: 1 Tilting option: N No. of ion ranges searched: 52

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	34*	17302328	6100	"BIGDB	44	42	0	0	81	53	10	53
2.	32	61142685	5639	"BIGDB	71	35	2	0	61	45	12	23
3.	30*	3726474	5613	"BIGDB	43	64	1	0	61	48	10	21
4.	30	13151343	13424	"BIGDB	55	39	1	0	86	46	10	21
5.	28	62016197	6106	"BIGDB	56	34	0	0	84	51	8	34

$$\text{Conc} = \frac{50}{2034111} \times 11136018 \times 1 = 273.73$$

1A
VOLATILE ORGANICS ANALYSIS SHEET

0000067

CLIENT SAMPLE NO.

MW-2DL

Lab Name: Roy F. Weston, Inc. Work Order: 3600-04-90-0000

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 9109L758-002 DL

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AK9R08

Level: (low/med) LOW

Date Received: 09/20/91

% Moisture: not dec. _____

Date Analyzed: 09/27/91

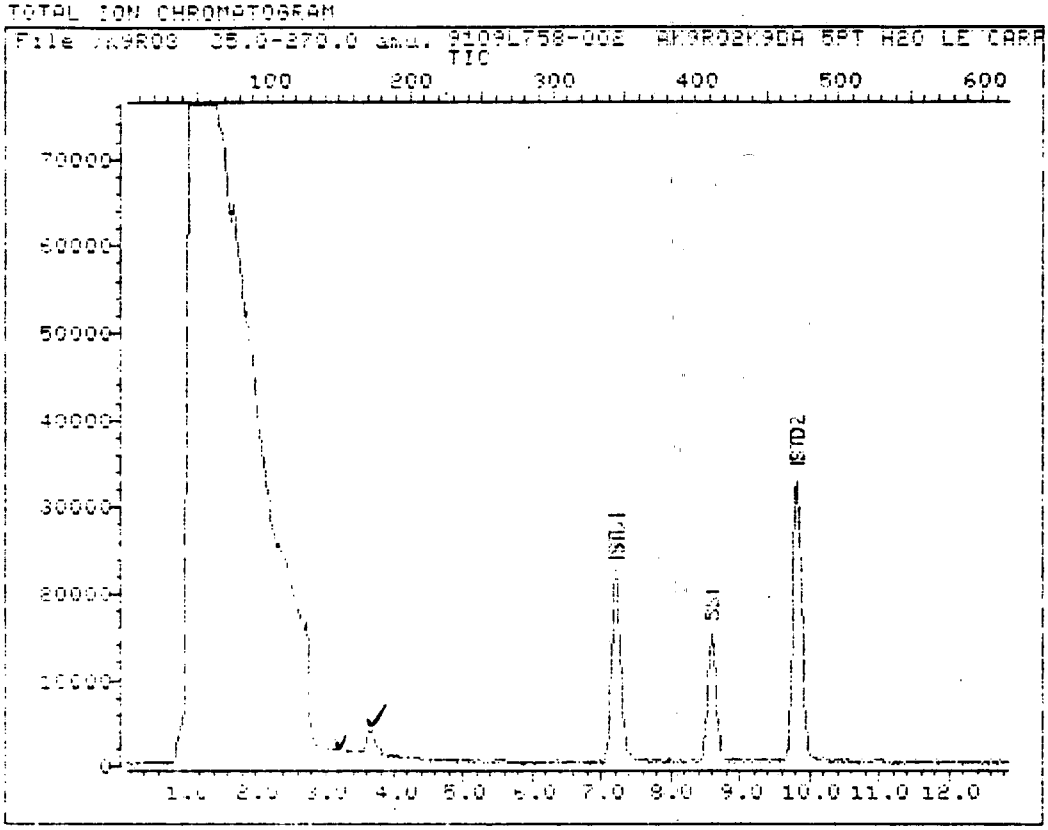
Column: (pack/cap) CAP

Dilution Factor: 2.00

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	NA	
74-83-9	Bromomethane	NA	
75-01-4	Vinyl Chloride	NA	
75-00-3	Chloroethane	NA	
75-09-2	Methylene Chloride	NA	
75-35-4	1,1-Dichloroethene	NA	
75-34-3	1,1-Dichloroethane	NA	
540-59-0	1,2-Dichloroethene (total)	NA	
67-66-3	Chloroform	NA	
107-06-2	1,2-Dichloroethane	NA	
71-55-6	1,1,1-Trichloroethane	NA	
56-23-5	Carbon Tetrachloride	NA	
75-27-4	Bromodichloromethane	NA	
78-87-5	1,2-Dichloropropane	NA	
10061-01-5	cis-1,3-Dichloropropene	NA	
79-01-6	Trichloroethene	NA	
124-48-1	Dibromochloromethane	NA	
79-00-5	1,1,2-Trichloroethane	NA	
71-43-2	Benzene	NA	
10061-02-6	Trans-1,3-Dichloropropene	NA	
110-75-8	2-chloroethylvinylether	NA	
75-25-2	Bromoform	NA	
127-18-4	Tetrachloroethene	NA	
79-34-5	1,1,2,2-Tetrachloroethane	NA	
108-88-3	Toluene	NA	
108-90-7	Chlorobenzene	NA	
100-41-4	Ethylbenzene	NA	
95-50-1	1,2-Dichlorobenzene	NA	
541-73-1	1,3-Dichlorobenzene	NA	
106-46-7	1,4-Dichlorobenzene	NA	
107-02-8	Acrolein	NA	
107-13-1	Acrylonitrile	NA	
75-69-4	Trichlorofluoromethane	NA	
1330-20-7	Xylene (total)	150	

TOTAL ION CHROMATOGRAM



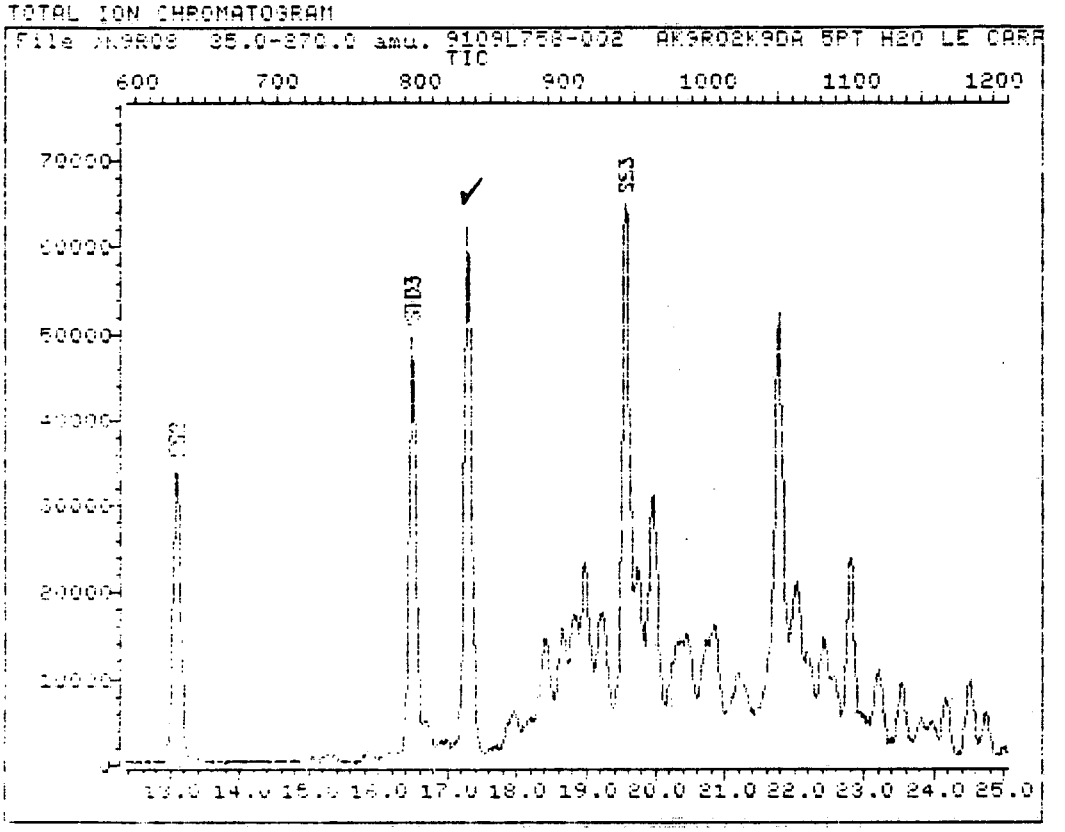
Data File: >K9R08::D2 Quant Output File: ^K9R08::QQ
Name: 9109L758-002 AK9R02
Misc: K9DA 5PT H2O LE CARPENTER 2.5ML DIL 2, #HP-MSD K RSL

Id File: I K9RA::QQ
Title: VOLATILES BY CAPILLARY (DB-624)
Last Calibration: 910927 13:03

Operator ID: RSL
Quant Time: 910927 15:55
Injected at: 910927 15:29

TIC page 1 of 2

TOTAL ION CHROMATOGRAM



Data File: >K9R08::D2 Quant Output File: ^K9R08::QQ
Name: 9109L758-002 AK9R02
Misc: K9DA 5PT H2O LE CARPENTER 2.5ML DIL 2, #HP-MSD K RSL

Id File: I_K9RA::QQ
Title: VOLATILES BY CAPILLARY (DB-624)
Last Calibration: 910927 13:03

Operator ID: RSL
Quant Time: 910927 15:55
Injected at: 910927 15:29

TIC page 2 of 2

QUANT REPORT

Operator ID: RSL Quant Rev: 6 Quant Time: 910927 15:55
Output File: ^K9R08::QQ Injected at: 910927 15:29
Data File: >K9R08::D2 Dilution Factor: 1.00000
Name: 9109L758-002 AK9R02
Misc: K9DA 5PT H2O LE CARPENTER 2.5ML DIL 2, #HP-MSD K RSL

ID File: I_K9RA::QQ
Title: VOLATILES BY CAPILLARY (DB-624)
Last Calibration: 910927 13:03

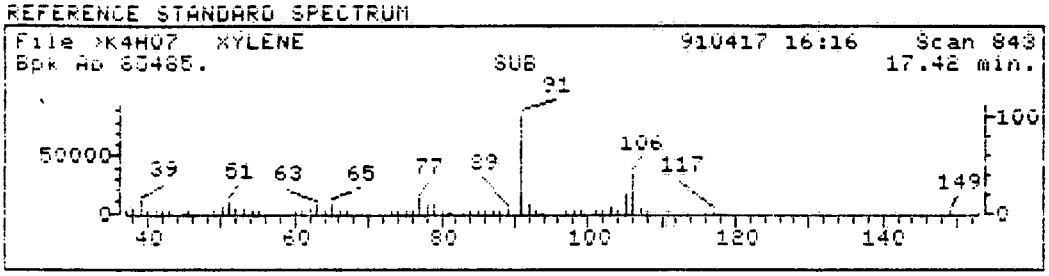
	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE	7.20	128.0	28749 ✓	50.00	ug/L	67
11)	ACETONE	2.96	43.0	491	5.56	ug/L ✓	100
12)	METHYLENE CHLORIDE	3.66	84.0	6171	9.69	ug/L ✓	71
24)	*1,4-DIFLUOROBENZENE	9.82	114.0	112726 ✓	50.00	ug/L	69
26)	1,2-DICHLOROETHANE D4	8.58	65.0	50465	48.82	ug/L ✓	86
32)	*CHLOROBENZENE-D5	16.49	117.0	104392 ✓	50.00	ug/L	93
34)	TOLUENE D8	13.07	98.0	97552	47.23	ug/L ✓	97
43)	ETHYLBENZENE	17.30	106.0	58286	89.59	ug/L *	71
45)	XYLENE	17.30	106.0	58286	72.95	ug/L ✓	91
46)	XYLENES (TOTAL)	18.23	106.0	2157	2.76	ug/L ✓	86
48)	4-BROMOFLUOROBENZENE	19.57	95.0	85780	44.97	ug/L ✓	86

* Compound is ISTD

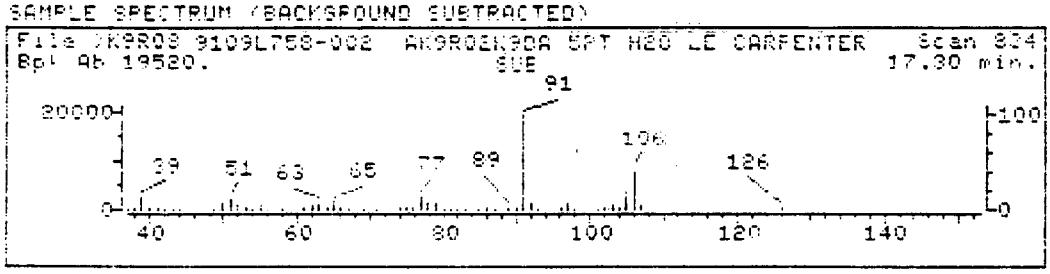
* not a hit
RSL
9/27/91

total xyl
75.71 × 2 = 151.42

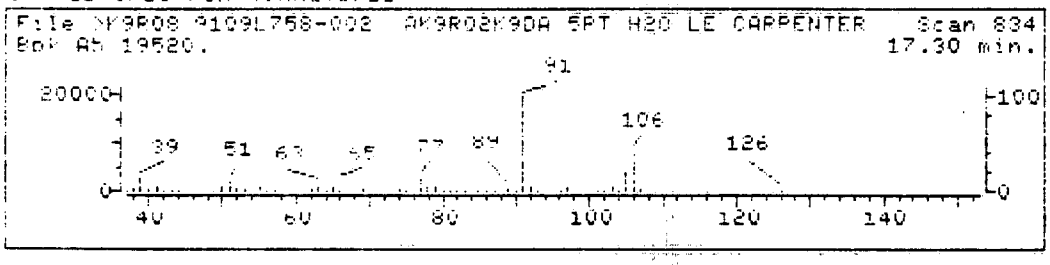
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



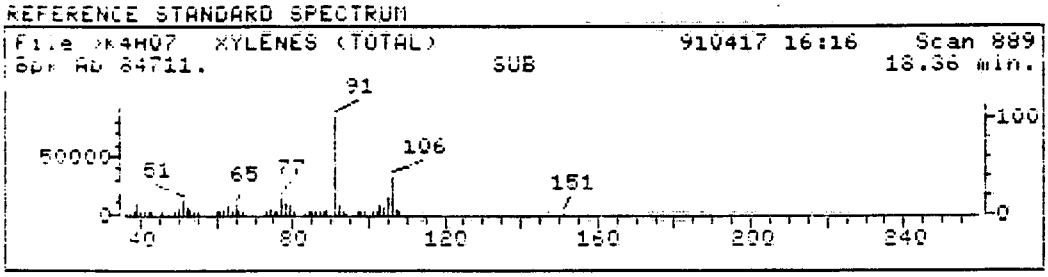
SAMPLE SPECTRUM (UNALTERED)



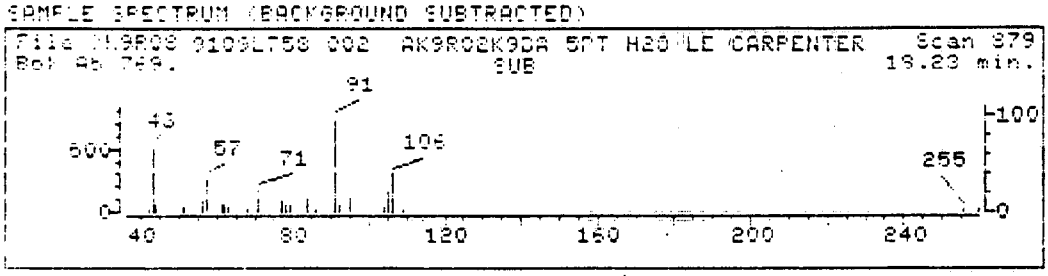
Data File: >K9R08::D2 Quant Output File: ^K9R08::QQ
Name: 9109L758-002 AK9R02
Misc: K9DA 5PT H2O LE CARPENTER 2.5ML DIL 2, #HP-MSD K RSL
Quant Time: 910927 15:55 Quant ID File: I_K9RA::QQ
Injected at: 910927 15:29 Last Calibration: 910927 13:03

Compound No: 45
Compound Name: XYLENE
Scan Number: 834
Retention Time: 17.30 min.
Quant Ion: 106.0
Area: 58286
Concentration: 72.95 ug/L
q-value: 91

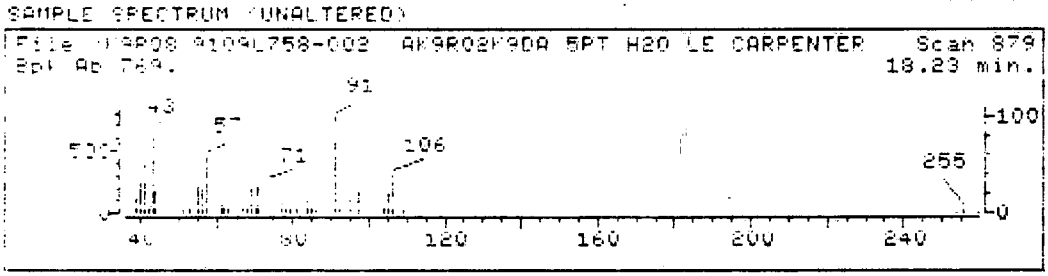
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >K9R08::D2 Quant Output File: ^K9R08::QQ
Name: 9109L758-002 AK9R02
Misc: K9DA 5PT H2O LE CARPENTER 2.5ML DIL 2, #HP-MSD K RSL
Quant Time: 910927 15:55 Quant ID File: I_K9RA::QQ
Injected at: 910927 15:29 Last Calibration: 910927 13:03

Compound No: 46
Compound Name: XYLENES (TOTAL)
Scan Number: 879
Retention Time: 18.23 min.
Quant Ion: 106.0
Area: 2157
Concentration: 2.76 ug/L
q-value: 86

1A
VOLATILE ORGANICS ANALYSIS SHEET

0000070

CLIENT SAMPLE NO.

MW-3

Lab Name: Roy F. Weston, Inc. Work Order: 3600-04-90-0000

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 9109L758-003

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AK9R12

Level: (low/med) LOW

Date Received: 09/20/91

% Moisture: not dec. _____

Date Analyzed: 09/27/91

Column: (pack/cap) CAP

Dilution Factor: 500

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	5000	U
74-83-9	Bromomethane	5000	U
75-01-4	Vinyl Chloride	5000	U
75-00-3	Chloroethane	5000	U
75-09-2	Methylene Chloride	7400	B
75-35-4	1,1-Dichloroethene	2500	U
75-34-3	1,1-Dichloroethane	2500	U
540-59-0	1,2-Dichloroethene (total)	2500	U
67-66-3	Chloroform	2500	U
107-06-2	1,2-Dichloroethane	2500	U
71-55-6	1,1,1-Trichloroethane	2500	U
56-23-5	Carbon Tetrachloride	2500	U
75-27-4	Bromodichloromethane	2500	U
78-87-5	1,2-Dichloropropane	2500	U
10061-01-5	cis-1,3-Dichloropropene	2500	U
79-01-6	Trichloroethene	2500	U
124-48-1	Dibromochloromethane	2500	U
79-00-5	1,1,2-Trichloroethane	2500	U
71-43-2	Benzene	2500	U
10061-02-6	Trans-1,3-Dichloropropene	2500	U
110-75-8	2-chloroethylvinylether	5000	U
75-25-2	Bromoform	2500	U
127-18-4	Tetrachloroethene	2500	U
79-34-5	1,1,2,2-Tetrachloroethane	2500	U
108-88-3	Toluene	2500	U
108-90-7	Chlorobenzene	2500	U
100-41-4	Ethylbenzene	10000	
95-50-1	1,2-Dichlorobenzene	2500	U
541-73-1	1,3-Dichlorobenzene	2500	U
106-46-7	1,4-Dichlorobenzene	2500	U
107-02-8	Acrolein	5000	U
107-13-1	Acrylonitrile	5000	U
75-69-4	Trichlorofluoromethane	2500	U
1330-20-7	Xylene (total)	63000	

1E
VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0000071

CLIENT SAMPLE NO.

MW-3

Lab Name: Roy F. Weston, Inc. Work Order: 3600-04-90-0000

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 9109L758-003

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AK9R12

Level: (low/med) LOW

Date Received: 09/20/91

% Moisture: not dec. _____

Date Analyzed: 09/27/91

Column: (pack/cap) CAP

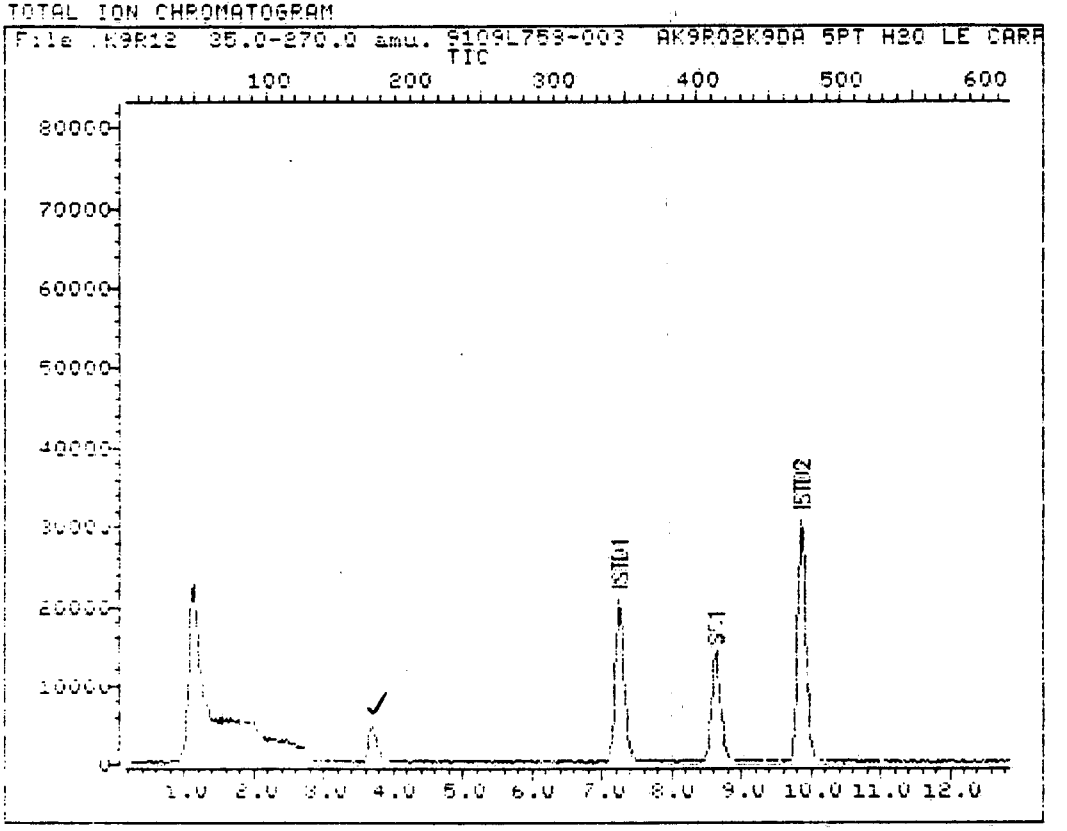
Dilution Factor: 500

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

TOTAL ION CHROMATOGRAM



Data File: >K9R12::D2 Quant Output File: ^K9R12::QQ
Name: 9109L758-003 AK9R02
Misc: K9DA 5PT H2O LE CARPENTER DIL 500, #HP-MSD K RSL

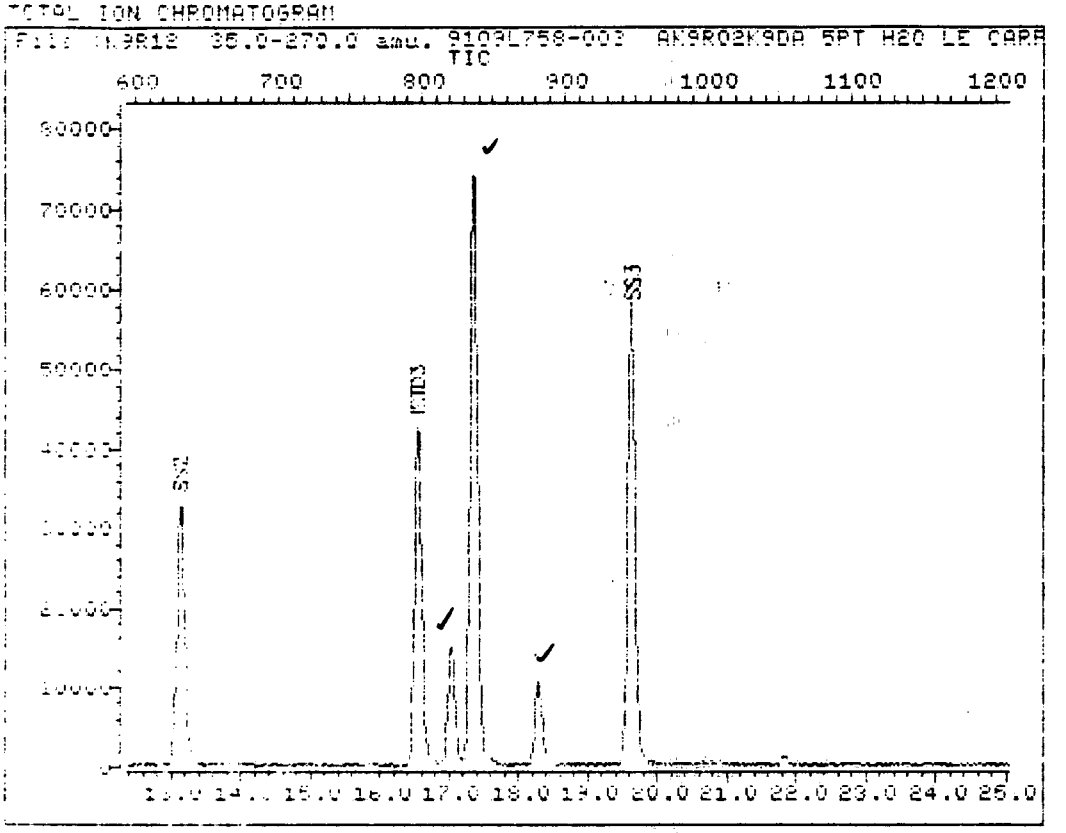
Id File: I_K9RA::QQ
Title: VOLATILES BY CAPILLARY (DB-624)
Last Calibration: 910927 13:03

Operator ID: RSL
Quant Time: 910927 18:00
Injected at: 910927 17:35

TIC page 1 of 2

NO TICS
RSL
10/1/91

TOTAL ION CHROMATOGRAM



Data File: >K9R12::D2 Quant Output File: ^K9R12::QO
Name: 9109L758-003 AK9R02
Misc: K9DA 5PT H2O LE CARPENTER DIL 500, #HP-MSD K RSL

Id File: I_K9RA::QO
Title: VOLATILES BY CAPILLARY (DB-624)
Last Calibration: 910927 13:03

Operator ID: RSL
Quant Time: 910927 18:00
Injected at: 910927 17:35

TIC page 2 of 2

QUANT REPORT

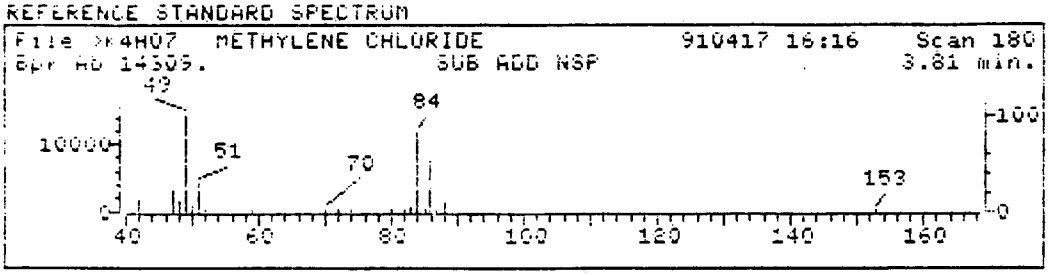
Operator ID: RSL Quant Rev: 6 Quant Time: 910927 18:00
Output File: ^K9R12::QQ Injected at: 910927 17:35
Data File: >K9R12::D2 Dilution Factor: 1.00000
Name: 9109L758-003 AK9R02
Misc: K9DA 5PT H2O LE CARPENTER DIL 500, #HP-MSD K RSL

ID File: I_K9RA::QQ
Title: VOLATILES BY CAPILLARY (DB-624)
Last Calibration: 910927 13:03

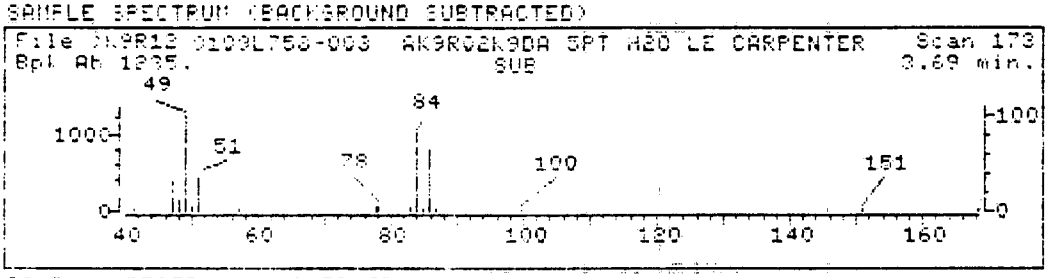
	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE	7.25	128.0	26650✓	50.00	ug/L	60
12)	METHYLENE CHLORIDE	3.69	84.0	8801	14.90	ug/L✓	76
24)	*1,4-DIFLUOROBENZENE	9.87	114.0	101008✓	50.00	ug/L	69
26)	1,2-DICHLOROETHANE D4	8.63	65.0	50174	54.17	ug/L✓	86
32)	*CHLOROBENZENE-D5	16.54	117.0	93988✓	50.00	ug/L	99
34)	TOLUENE D8	13.12	98.0	90027	48.41	ug/L✓	95
43)	ETHYLBENZENE	17.03	106.0	12240	20.90	ug/L✓	97
45)	XYLENE	17.34	106.0	79452	110.45	ug/L✓	88
46)	XYLENES (TOTAL)	18.29	106.0	10890	15.48	ug/L✓	83
48)	4-BROMOFLUOROBENZENE	19.63	95.0	78454	45.68	ug/L✓	83

* Compound is ISTD

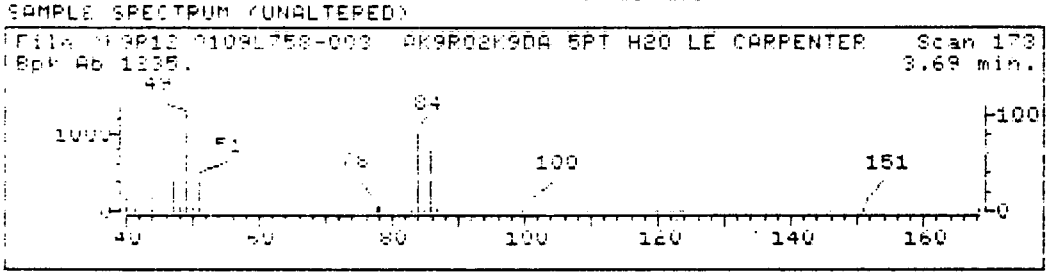
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



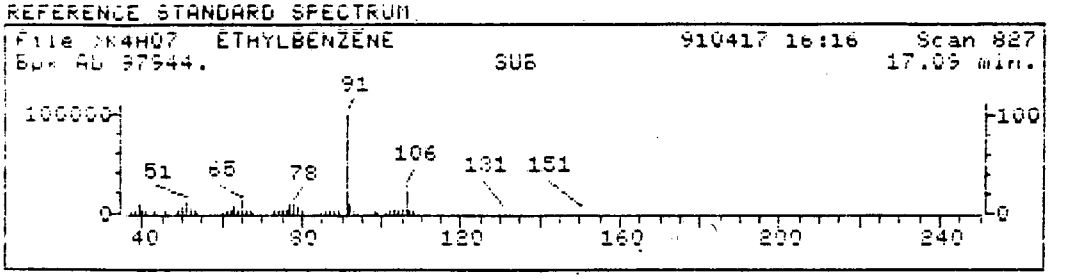
SAMPLE SPECTRUM (UNALTERED)



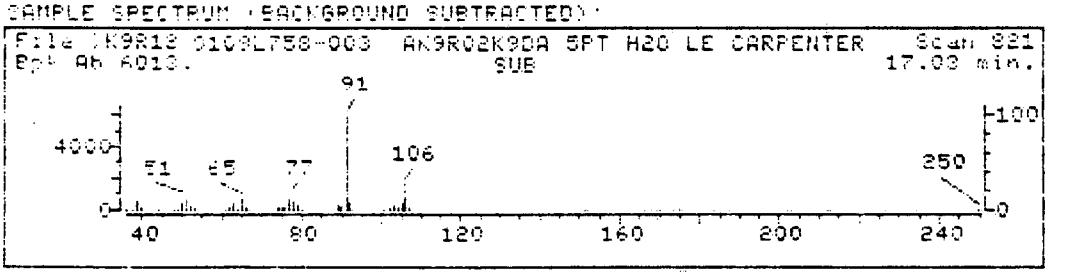
Data File: >K9R12::D2 Quant Output File: ^K9R12::QQ
Name: 9109L758-003 AK9R02
Misc: K9DA 5PT H2O LE CARPENTER DIL 500, #HP-MSD K RSL
Quant Time: 910927 18:00 Quant ID File: I_K9RA::QQ
Injected at: 910927 17:35 Last Calibration: 910927 13:03

Compound No: 12
Compound Name: METHYLENE CHLORIDE
Scan Number: 173
Retention Time: 3.69 min.
Quant Ion: 84.0
Area: 8801
Concentration: 14.90 ug/L
q-value: 76

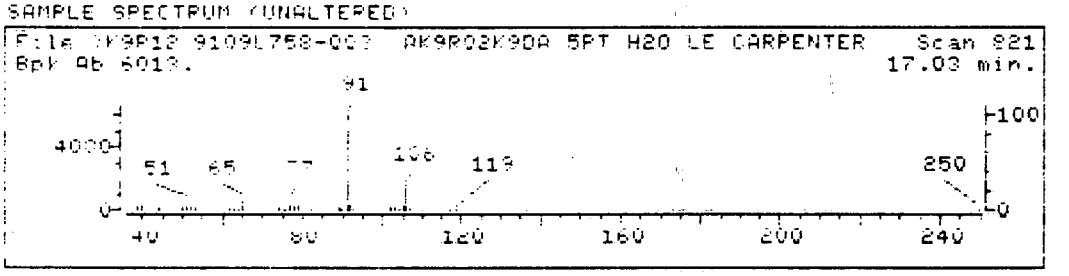
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



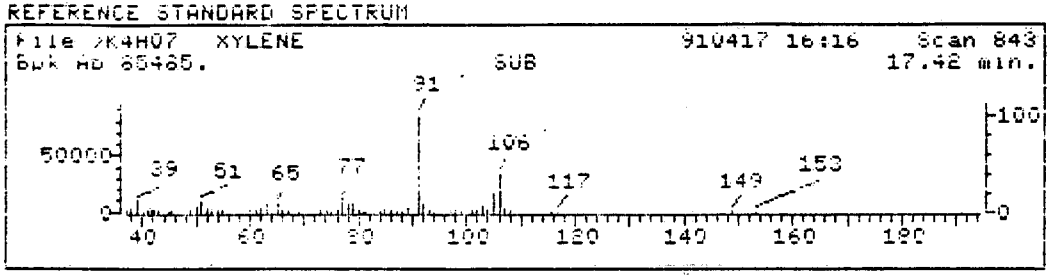
SAMPLE SPECTRUM (UNALTERED)



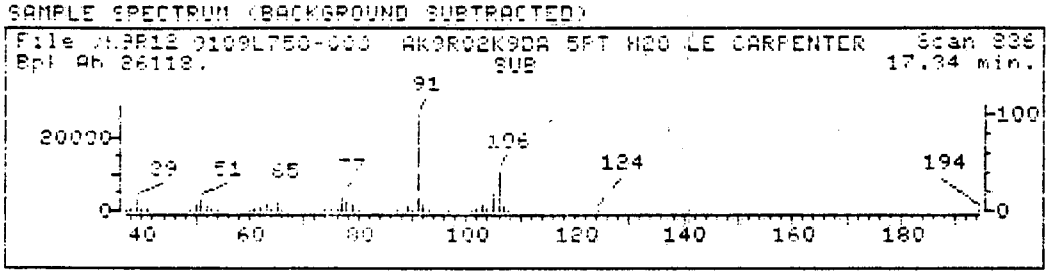
Data File: >K9R12::D2 Quant Output File: ^K9R12::QQ
Name: 9109L758-003 AK9R02
Misc: K9DA 5PT H2O LE CARPENTER DIL 500, #HP-MSD K RSL
Quant Time: 910927 18:00 Quant ID File: I_K9RA::QQ
Injected at: 910927 17:35 Last Calibration: 910927 13:03

Compound No: 43
Compound Name: ETHYLBENZENE
Scan Number: 821
Retention Time: 17.03 min.
Quant Ion: 106.0
Area: 12240
Concentration: 20.90 ug/L
q-value: 97

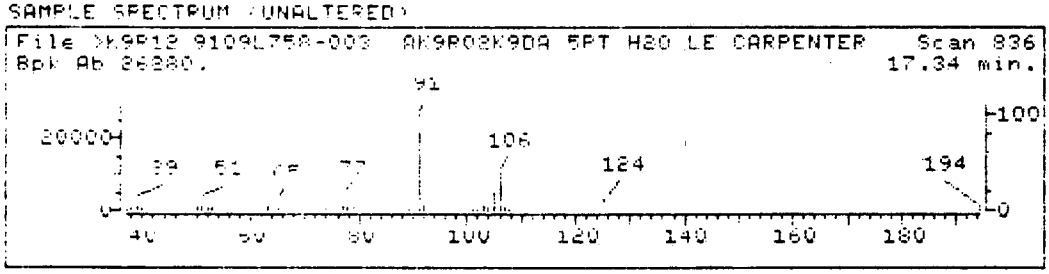
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



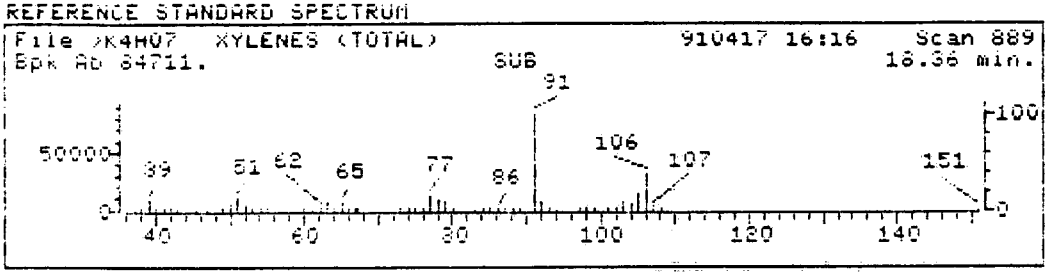
SAMPLE SPECTRUM (UNALTERED)



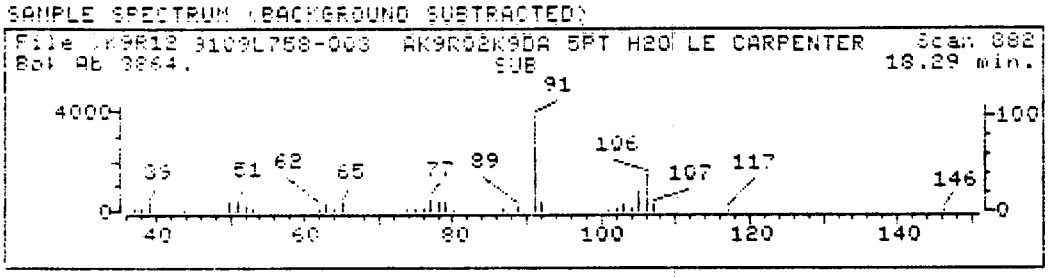
Data File: >K9R12::D2 Quant Output File: ^K9R12::QQ
Name: 9109L758-003 AK9R02
Misc: K9DA 5PT H2O LE CARPENTER DIL 500, #HP-MSD K RSL
Quant Time: 910927 18:00 Quant ID File: I_K9RA::QQ
Injected at: 910927 17:35 Last Calibration: 910927 13:03

Compound No: 45
Compound Name: XYLENE
Scan Number: 836
Retention Time: 17.34 min.
Quant Ion: 106.0
Area: 79452
Concentration: 110.45 ug/L
q-value: 88

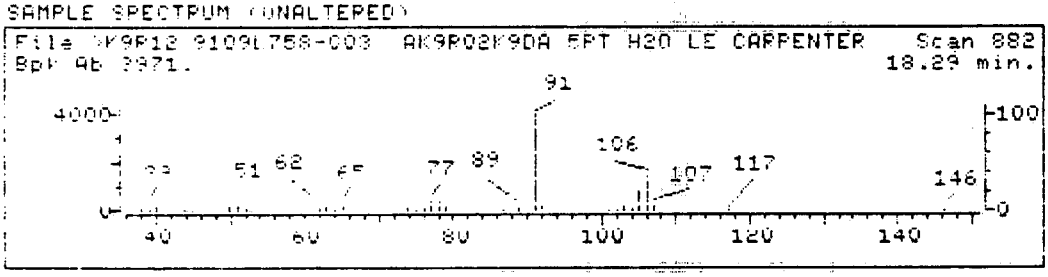
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >K9R12::D2 Quant Output File: ^K9R12::QQ
Name: 9109L758-003 AK9R02
Misc: K9DA 5PT H2O LE CARPENTER DIL 500, #HP-MSD K RSL
Quant Time: 910927 18:00 Quant ID File: I_K9RA::QQ
Injected at: 910927 17:35 Last Calibration: 910927 13:03

Compound No: 46
Compound Name: XYLENES (TOTAL)
Scan Number: 882
Retention Time: 18.29 min.
Quant Ion: 106.0
Area: 10890
Concentration: 15.48 ug/L
q-value: 83

1A
VOLATILE ORGANICS ANALYSIS SHEET 0000079

CLIENT SAMPLE NO.

MW-4

Lab Name: Roy F. Weston, Inc. Work Order: 3600-04-90-0000

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 9109L758-004

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AK9S06

Level: (low/med) LOW

Date Received: 09/20/91

% Moisture: not dec. _____

Date Analyzed: 09/28/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
110-75-8	2-chloroethylvinylether	10	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	29	
95-50-1	1,2-Dichlorobenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
75-69-4	Trichlorofluoromethane	5	U
1330-20-7	Xylene (total)	130	

1E

0000080

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-4

Lab Name: Roy F. Weston, Inc. Work Order: 3600-04-90-0000

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 9109L758-004

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AK9S06

Level: (low/med) LOW

Date Received: 09/20/91

% Moisture: not dec. _____

Date Analyzed: 09/28/91

Column: (pack/cap) CAP

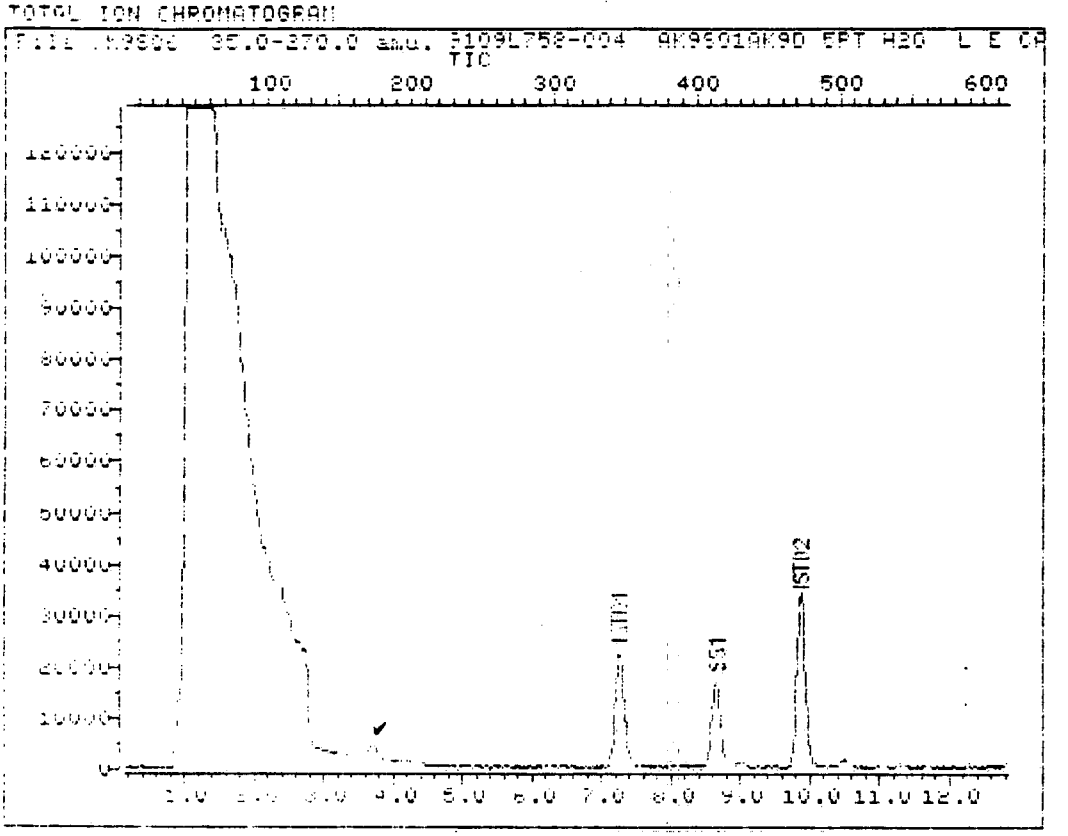
Dilution Factor: 1.00

Number TICs found: 15

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	HYDROCARBON	18.02	40	J
2.	UNKNOWN	18.50	30	J
3.	ALKANE	18.73	30	J
4.	UNKNOWN	18.89	30	J
5.	ALKANE	19.03	40	J
6.	ALKANE	19.26	50	J
7.	UNKNOWN	19.80	40	J
8.	CYCLOALKANE	20.00	50	J
9.	HYDROCARBON	20.48	70	J
10.	HYDROCARBON	20.85	80	J
11.	CYCLOALKANE	21.24	40	J
12.	C3 BENZENE	21.82	70	J
13.	ALKANE	22.09	50	J
14.	UNKNOWN	22.46	30	J
15.	UNKNOWN	23.27	20	J

TOTAL ION CHROMATOGRAM



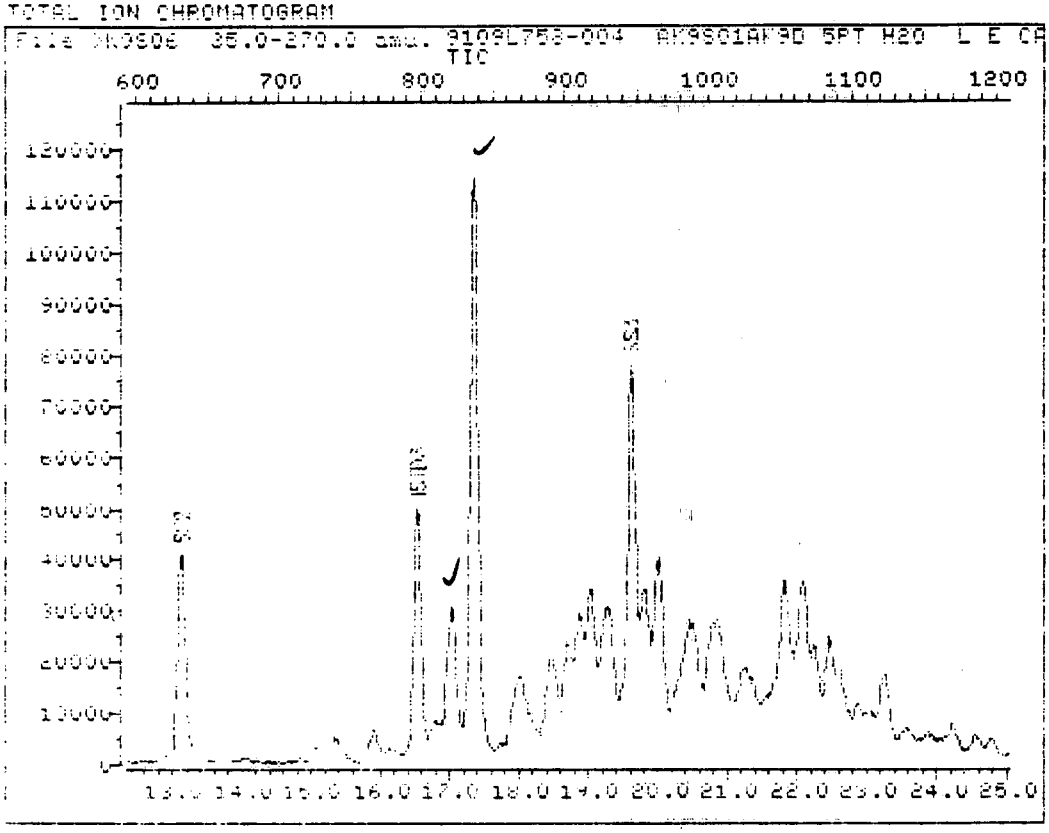
Data File: >K9S06::D2 Quant Output File: ^K9S06::QQ
Name: 9109L758-004 AK9S01
Misc: AK9D 5PT H2O L E CARPENTER 5ML #HP-MSD K BB

Id File: I_K9SA::QQ
Title: VOLATILES BY CAPILLARY (DB-624)
Last Calibration: 910928 13:14

Operator ID: BB
Quant Time: 910928 16:12
Injected at: 910928 15:41

TIC page 1 of 2

TOTAL ION CHROMATOGRAM



Data File: >K9S06::D2 Quant Output File: ^K9S06::QQ
Name: 9109L758-004 AK9S01
Misc: AK9D 5PT H2O L E CARPENTER 5ML #HP-MSD K BB

Id File: !_K9SA::QQ
Title: VOLATILES BY CAPILLARY (DB-624)
Last Calibration: 910928 13:14

Operator ID: BB
Quant Time: 910928 16:12
Injected at: 910928 15:41

TIC page 2 of 2

QUANT REPORT

Operator ID: BB Quant Rev: 6 Quant Time: 910928 16:12
Output File: ^K9S06::QQ Injected at: 910928 15:41
Data File: >K9S06::D2 Dilution Factor: 1.00000
Name: 9109L758-004 AK9S01
Misc: AK9D 5PT H2O L E CARPENTER 5ML #HP-MSD K BB

ID File: I_K9SA::QQ
Title: VOLATILES BY CAPILLARY (DB-624)
Last Calibration: 910928 13:14

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE	7.25	128.0	28759	50.00	ug/L	76
11)	ACETONE	3.01	43.0	516	4.78	ug/L	100
24)	*1.4-DIFLUOROBENZENE	9.87	114.0	111328	50.00	ug/L	68
26)	1,2-DICHLOROETHANE D4	8.65	65.0	57433	51.72	ug/L	89
32)	*CHLOROBENZENE-D5	16.54	117.0	107106	50.00	ug/L	95
34)	TOLUENE D8	13.12	98.0	118998	53.07	ug/L	96
39)	1.1.2-TRICHLOROETHANE	14.07	97.0	1660	2.36	ug/L	26
43)	ETHYLBENZENE	17.03	106.0	21119	29.17	ug/L	98
45)	XYLENE	17.36	106.0	114100	129.91	ug/L	90
48)	4-BROMOFLUOROBENZENE	19.61	95.0	105177	52.69	ug/L	98

* Compound is ISTD

BB
9-30-91

>K9S06 9109L758-004 AK9S01AK9D 5PT H2O L E CARPENTER 5ML #HP

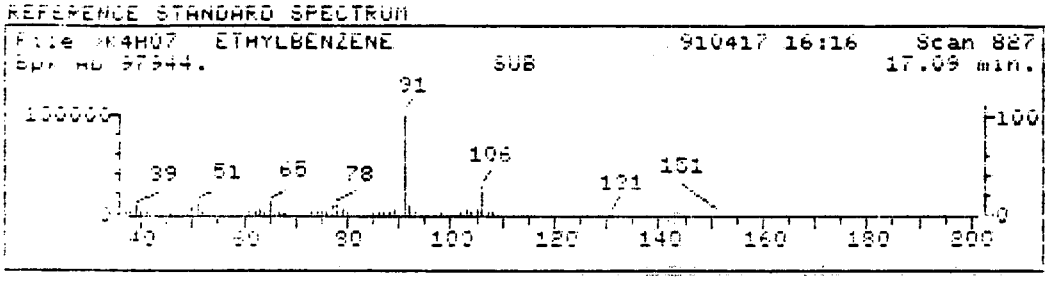
0000084

35.0| 270.0 SMT TIC
Upslope: .01 Area Reject: 4.00 % Max Peaks: 28 Bunching: 1
Dnslope: 0.00 Results File VDIR72 Sorted by Time/Area INT

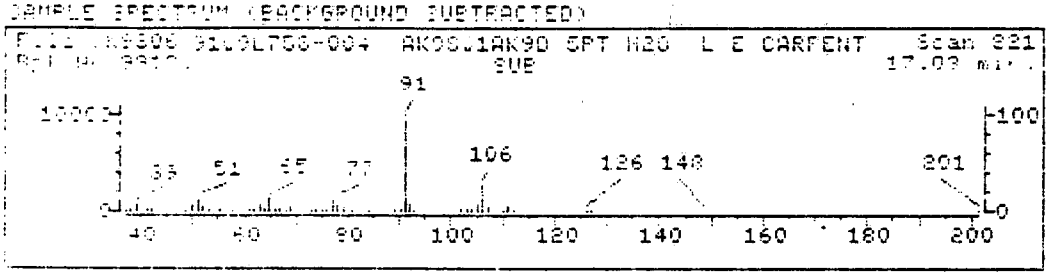
Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area		corr. % max.	% of total
1	16.54	786	797	805	45490	413430	367343	IS	39.81	4.585
2	16.79	805	809	813	6528	76845	57949	—	6.28	.723
3	17.03	813	821	828	28425	317875	282240	TC	30.59	3.523
4	17.36	828	837	850	107894	974942	922645	TC	100.00	11.517
5	18.02	851	869	883	15151	364439	288416	1	31.26	3.600
6	18.50	883	892	897	18518	259468	226587	2	24.56	2.828
7	18.73	897	903	906	21260	221584	200497	3	21.73	2.503
8	18.89	906	911	914	26979	255317	236588	4	25.64	2.953
9	19.03	914	918	924	31640	337171	313750	5	34.01	3.916
10	19.26	924	929	938	28672	397502	364663	6	39.52	4.552
11	19.61	938	946	952	71983	719862	687005	55	74.46	8.575
12	19.80	952	955	960	31722	294105	275394	7	29.85	3.437
13	20.00	960	965	973	37252	424487	394037	8	42.71	4.918
14	20.48	973	988	996	25580	569918	515899	9	55.92	6.439
15	20.85	996	1006	1018	25483	555572	503947	10	54.62	6.290
16	21.24	1018	1025	1036	16818	343930	301757	11	32.71	3.767
17	21.82	1036	1053	1059	33863	597420	543458	12	58.90	6.783
18	22.09	1059	1066	1071	33440	413690	385614	13	41.79	4.813
19	22.25	1071	1074	1079	20767	187393	168702	—	18.28	2.106
20	22.46	1079	1084	1089	21933	245749	222380	14	24.10	2.776
21	22.61	1089	1091	1100	15972	184483	158769	—	17.21	1.982
22	22.87	1100	1104	1108	9848	107737	89041	—	9.65	1.111
23	23.02	1108	1111	1116	8734	100146	81466	—	8.83	1.017
24	23.27	1116	1123	1131	15302	210101	175016	15	18.97	2.185
25	23.55	1131	1137	1145	5030	103823	71097	—	7.71	.887
26	23.88	1145	1153	1159	4188	92830	60106	—	6.51	.750
27	24.24	1159	1170	1178	5689	122523	78087	—	8.46	.975
28	24.57	1178	1186	1192	3640	71746	39040	—	4.23	.487

Sum of corrected areas: 8011493.

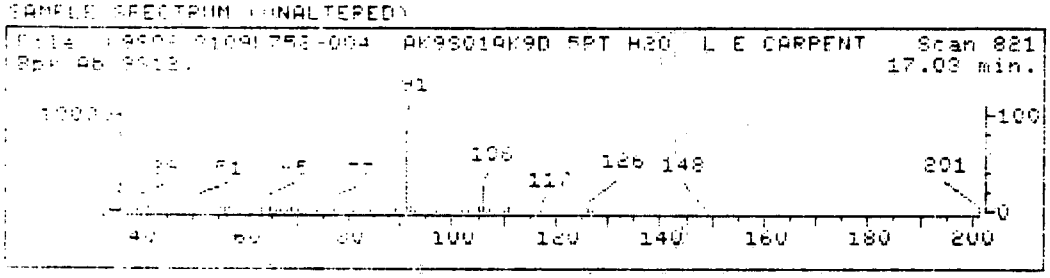
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



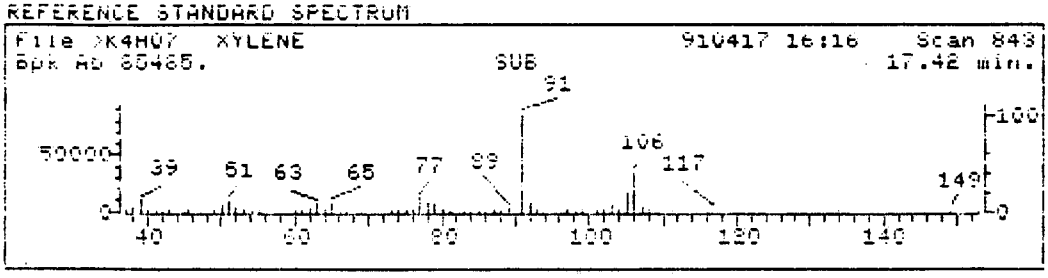
SAMPLE SPECTRUM (UNALTERED)



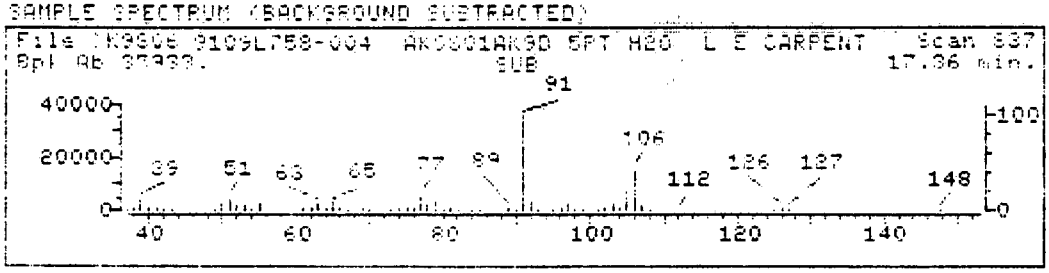
Data File: >K9S06::D2 Quant Output File: ^K9S06::QQ
Name: 9109L758-004 AK9S01
Misc: AK9D 5PT H2O L E CARPENTER 5ML #HP-MSD K BB
Quant Time: 910928 16:12 Quant ID File: I_K9SA::QQ
Injected at: 910928 15:41 Last Calibration: 910928 13:14

Compound No: 43
Compound Name: ETHYLBENZENE
Scan Number: 821
Retention Time: 17.03 min.
Quant Ion: 106.0
Area: 21119
Concentration: 29.17 ug/L
q-value: 98

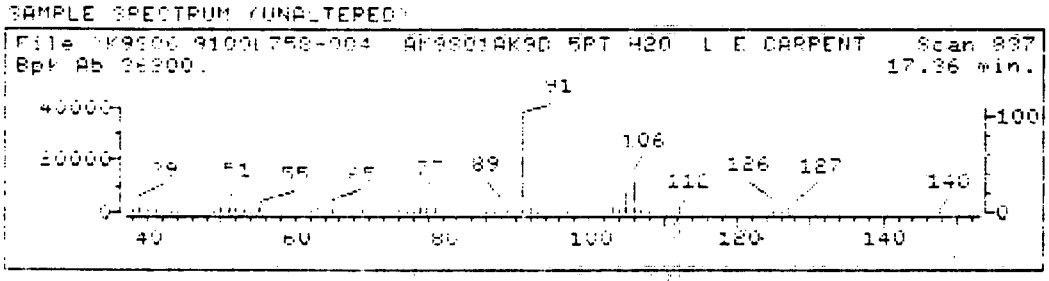
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

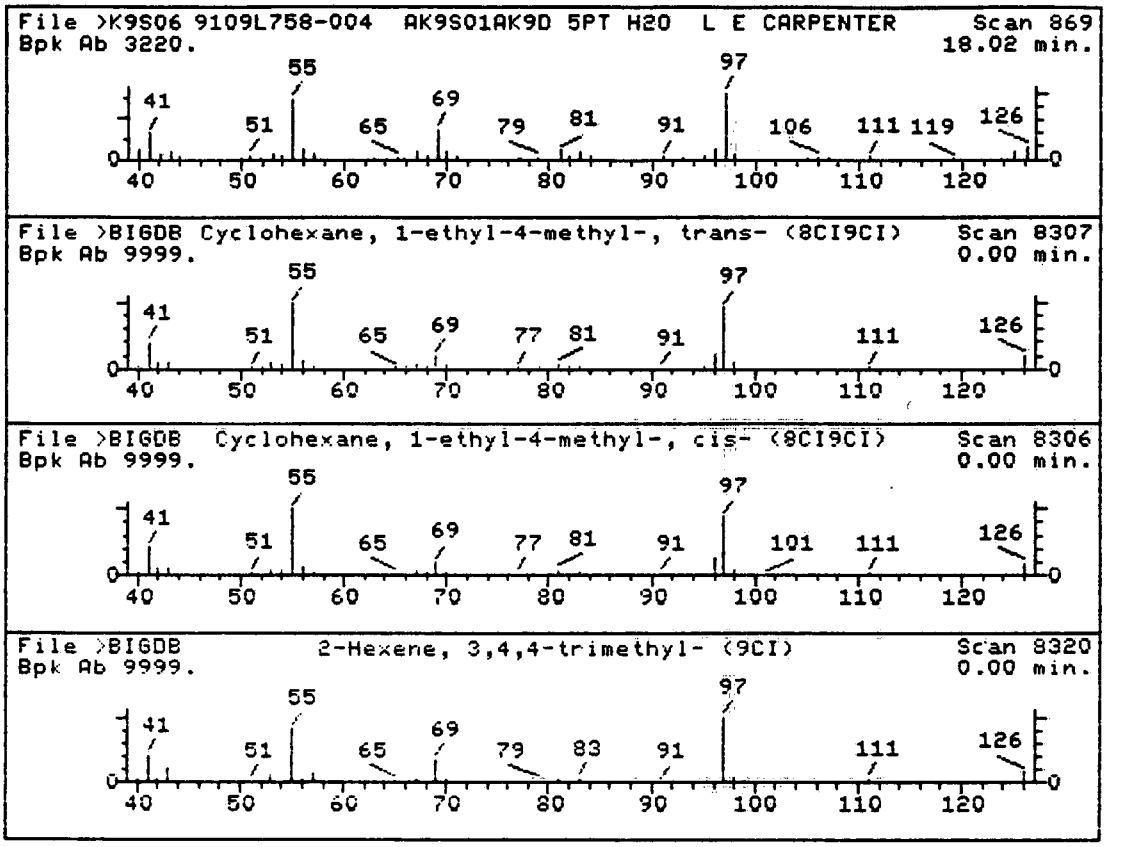


SAMPLE SPECTRUM (UNALTERED)



Data File: >K9S06::D2 Quant Output File: ^K9S06::QQ
Name: 9109L758-004 AK9S01
Misc: AK9D 5PT H2O L E CARPENTER 5ML #HP-MSD K BB
Quant Time: 910928 16:12 Quant ID File: I_K9SA::QQ
Injected at: 910928 15:41 Last Calibration: 910928 13:14

Compound No: 45
Compound Name: XYLENE
Scan Number: 837
Retention Time: 17.36 min.
Quant Ion: 106.0
Area: 114100
Concentration: 129.91 ug/L
q-value: 90

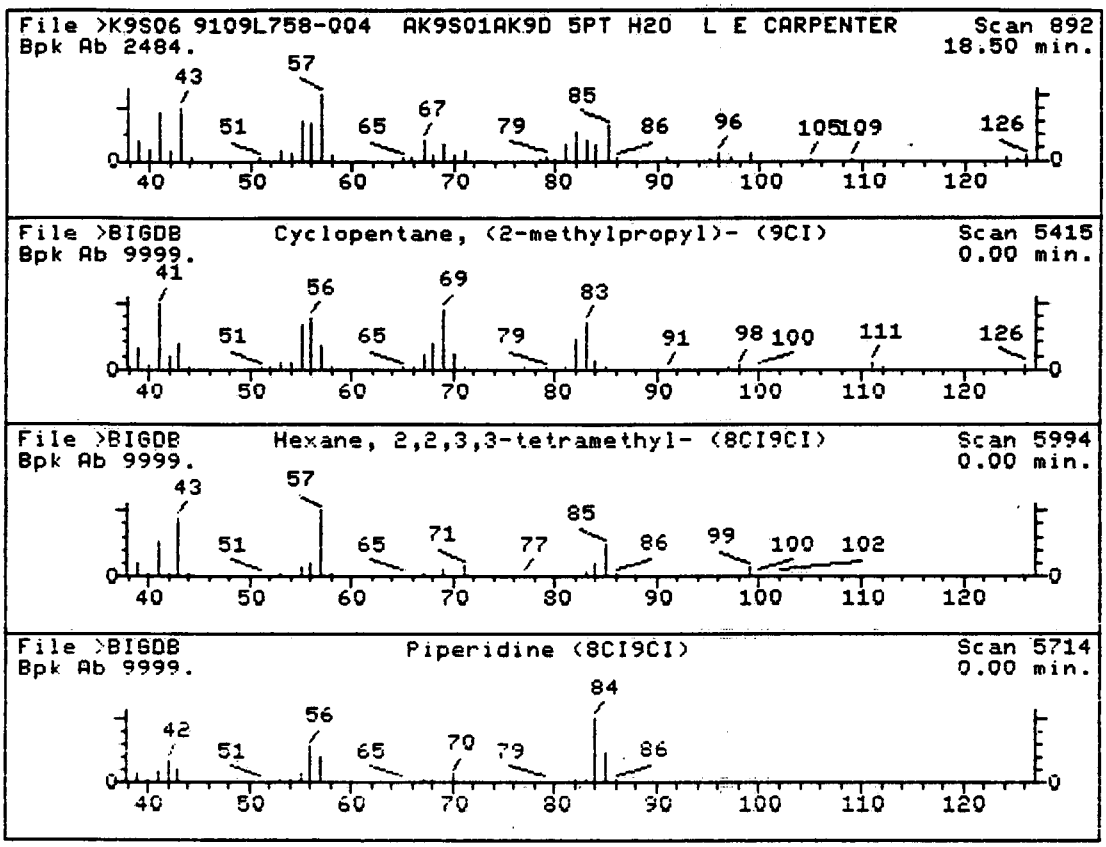


1. Cyclohexane, 1-ethyl-4-methyl-, trans- (8CI9CI) 126 C9H18
2. Cyclohexane, 1-ethyl-4-methyl-, cis- (8CI9CI) 126 C9H18
3. 2-Hexene, 3,4,4-trimethyl- (9CI) 126 C9H18
4. Cyclohexane, 1-ethyl-2-methyl-, cis- (8CI9CI) 126 C9H18
5. Furan, 2,3-dihydro-4-(1-methylpropyl)-, (S)- (9CI) 126 C8H14O

Sample file: >K9S06 Spectrum #: 869
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	55*	6236880	8307	"BIGDB	50	46	0	0	67	44	18	60
2.	51*	4926787	8306	"BIGDB	47	49	2	0	90	22	22	23
3.	50*	53941198	8320	"BIGDB	42	51	2	0	95	25	22	22
4.	49*	4923777	8305	"BIGDB	45	47	1	0	76	28	19	27
5.	45*	34379549	8317	"BIGDB	48	40	2	0	84	31	16	28

$$\text{Conc} = \frac{50}{367343} \times 288466 \times 1 = 39.25$$

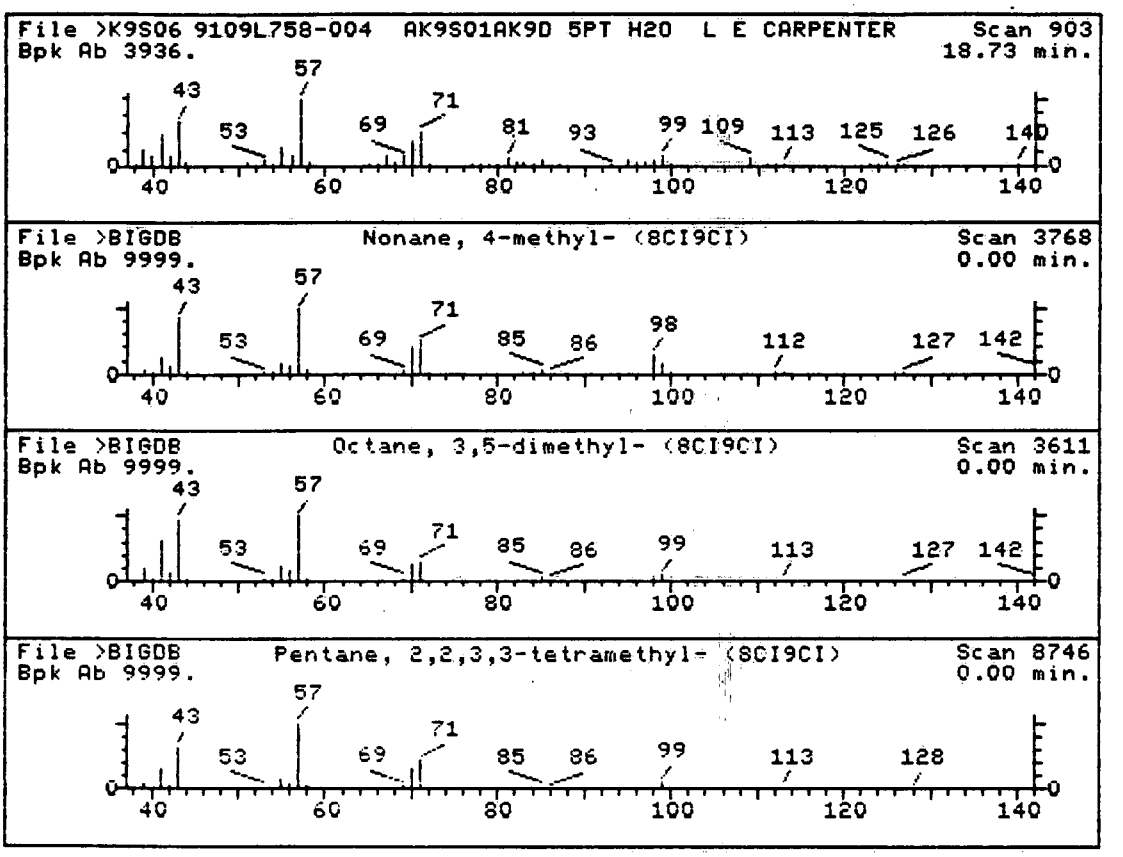


1. Cyclopentane, (2-methylpropyl)- (9CI)	126	C9H18
2. Hexane, 2,2,3,3-tetramethyl- (8CI9CI)	142	C10H22
3. Piperidine (8CI9CI)	85	C5H11N
4. Azetidine, 1,2-dimethyl- (9CI)	85	C5H11N
5. Pentane, 2,2-dimethyl- (8CI9CI)	100	C7H16

Sample file: >K9S06 Spectrum #: 892
Search speed: 1 Tilting option: N No. of ion ranges searched: 42

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	25*	3788327	5415	"BIGDB	44	74	3	0	70	41	8	13
2.	24	13475815	5994	"BIGDB	56	39	1	0	86	53	7	21
3.	20*	110894	5714	"BIGDB	36	63	3	0	99	53	5	13
4.	20*	51764320	5940	"BIGDB	22	69	3	0	269	53	5	12
5.	15	590352	5912	"BIGDB	41	43	1	0	109	56	3	14

$$\text{Conc} = \frac{50}{367343} \times 226587 \times 1 = 30.84$$

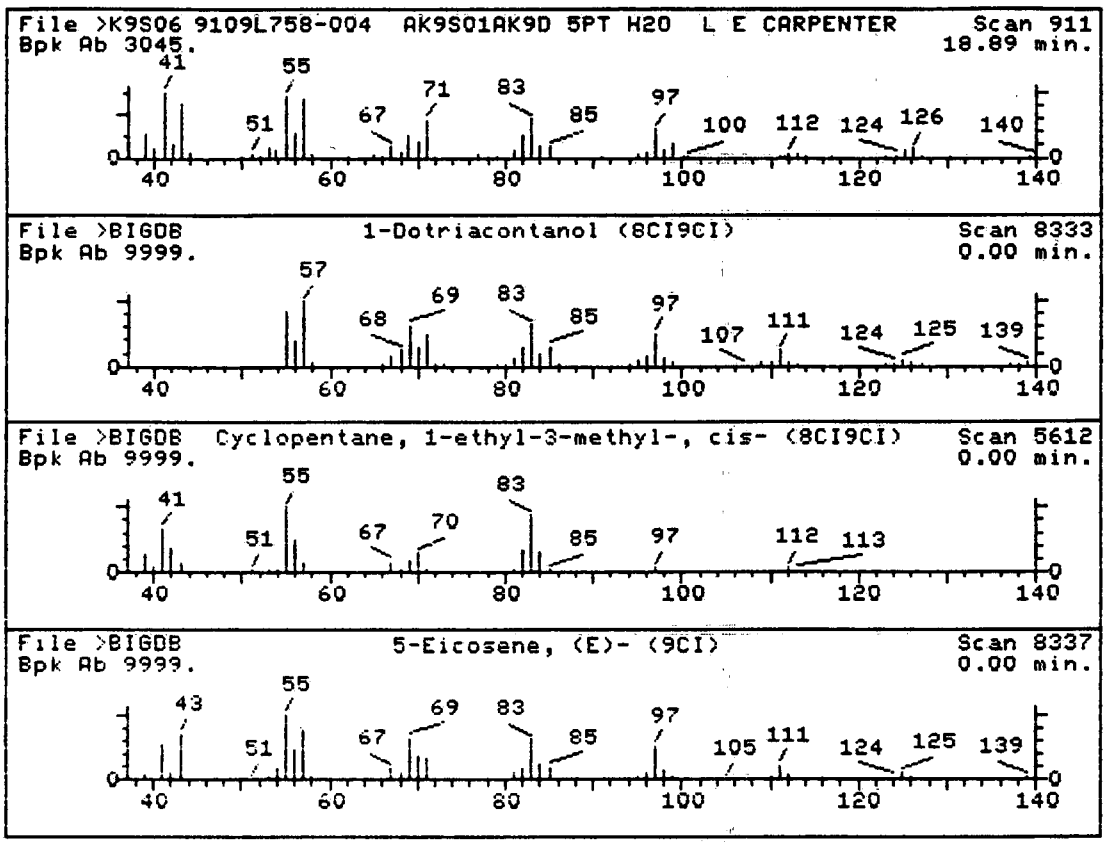


1. Nonane, 4-methyl- (8CI9CI)	142	C10H22
2. Octane, 3,5-dimethyl- (8CI9CI)	142	C10H22
3. Pentane, 2,2,3,3-tetramethyl- (8CI9CI)	128	C9H20
4. Heptane, 2,3,4-trimethyl- (9CI)	142	C10H22
5. Octane, 2,5-dimethyl- (8CI9CI)	142	C10H22

Sample file: >K9S06 Spectrum #: 903
Search speed: 1 Tilting option: N No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	67	17301949	3768	"BIGDB	66	34	2	0	77	15	34	23
2.	64*	15869939	3611	"BIGDB	55	38	1	0	97	25	28	42
3.	63	7154792	8746	"BIGDB	56	33	0	0	86	19	30	34
4.	52	52896954	8759	"BIGDB	45	45	1	0	84	19	20	16
5.	49	15869893	8749	"BIGDB	60	32	1	0	85	26	19	27

$$\text{CONC} = \frac{50}{367343} \times 200497 \times 1 = 27.29$$

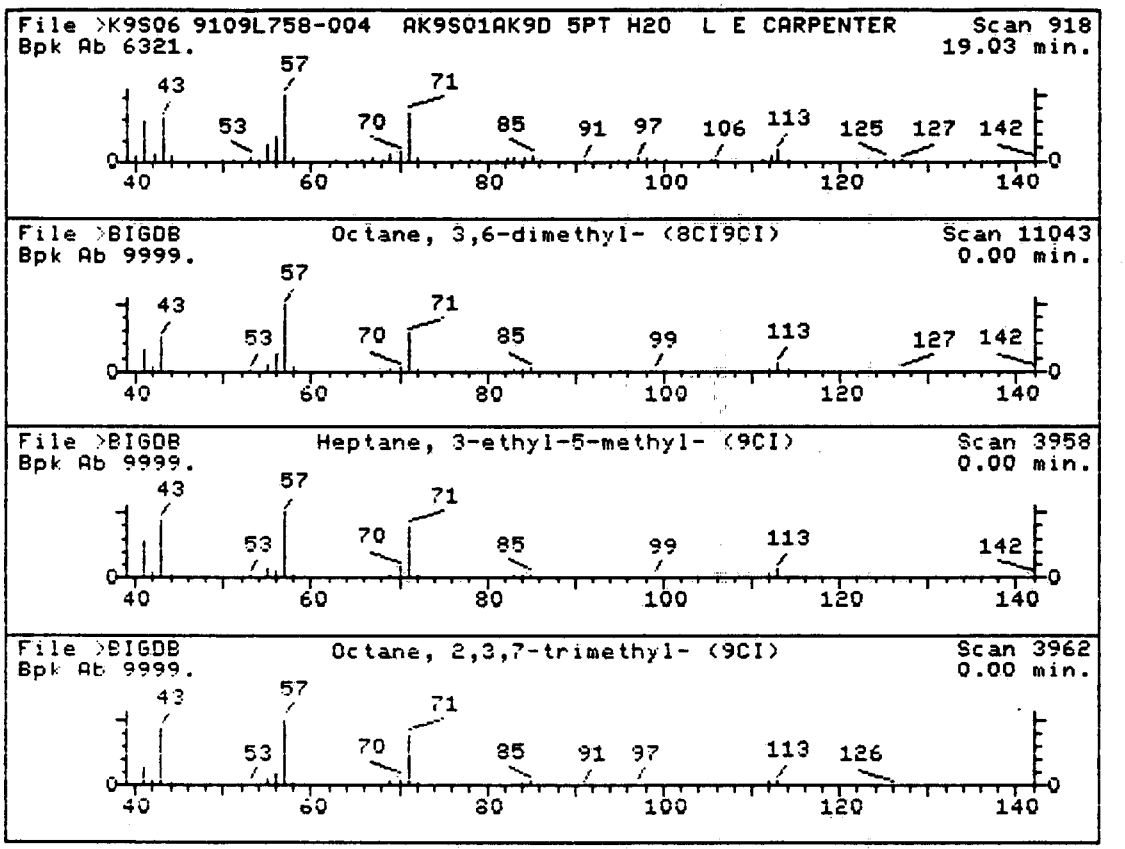


1.	1-Dotriacontanol (8CI9CI)	466	C32H66O
2.	Cyclopentane, 1-ethyl-3-methyl-, cis- (8CI9CI)	112	C8H16
3.	5-Eicosene, (E)- (9CI)	280	C20H40
4.	11-Tricosene (9CI)	322	C23H46
5.	1-Tetracosanol (8CI9CI)	354	C24H50O

Sample file: >K9S06 Spectrum #: 911
Search speed: 1 Tilting option: N No. of ion ranges searched: 44

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	60	6624799	8333	"BIGDB	80	101	3	0	88	13	30	14
2.	43*	2613663	5612	"BIGDB	53	55	0	0	59	55	11	65
3.	36	74685306	8337	"BIGDB	77	78	2	0	63	32	12	19
4.	32	52078565	8318	"BIGDB	69	83	2	0	84	32	12	15
5.	32	506514	8291	"BIGDB	100	64	3	0	84	42	12	23

$$\text{Conc} = \frac{50}{367343} \times 236588 \times 1 = 32.20$$

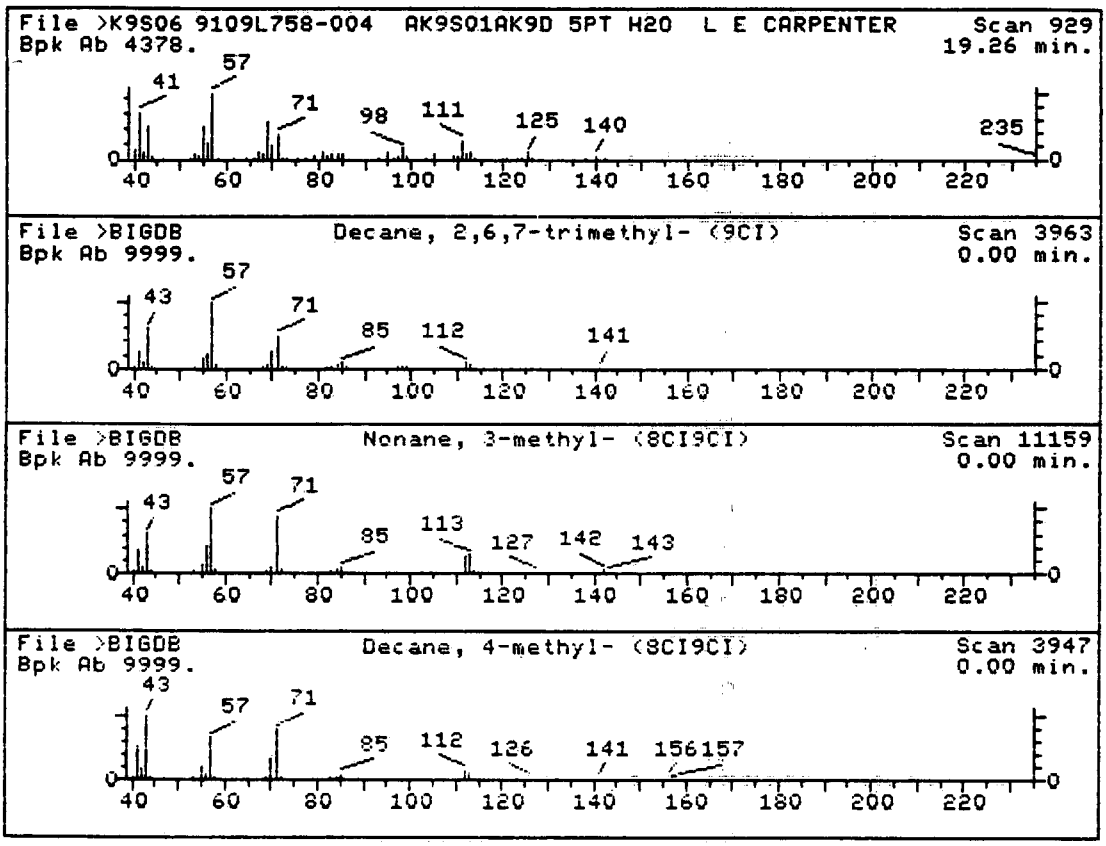


1. Octane, 3,6-dimethyl- (8CI9CI)	142	C10H22
2. Heptane, 3-ethyl-5-methyl- (9CI)	142	C10H22
3. Octane, 2,3,7-trimethyl- (9CI)	156	C11H24
4. Tridecane, 7-methyl- (8CI9CI)	198	C14H30
5. Nonane, 3,7-dimethyl- (8CI9CI)	156	C11H24

Sample file: >K9S06 Spectrum #: 918
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	87*	15869940	11043	"BIGDB	42	47	0	0	99	5	63	48
2.	84*	52896909	3958	"BIGDB	51	43	0	0	74	10	55	61
3.	79	62016346	3962	"BIGDB	62	31	0	0	79	7	48	39
4.	76	26730143	10858	"BIGDB	70	41	1	0	83	9	45	27
5.	60	17302328	6100	"BIGDB	48	38	2	0	100	15	30	16

$$\text{CONC} = \frac{50}{367343} \times 313750 \times 1 = 42.70$$

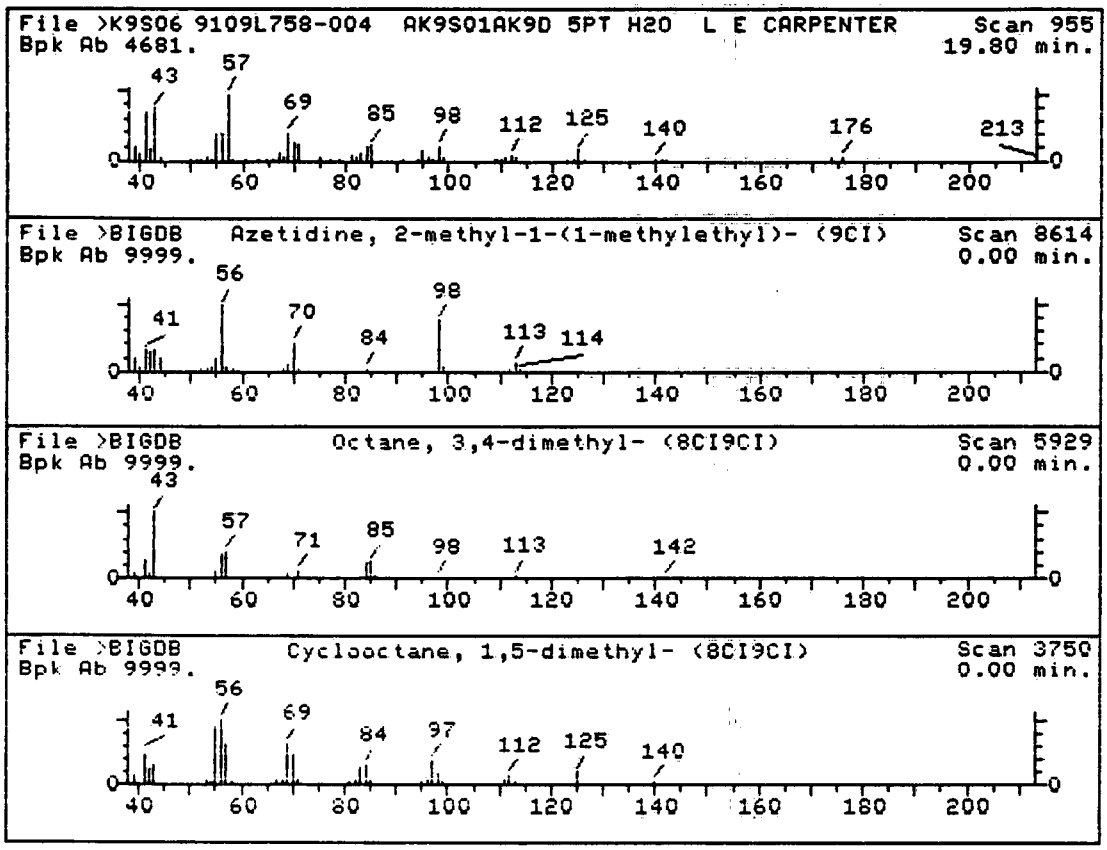


1. Decane, 2,6,7-trimethyl- (9CI)	184	C13H28
2. Nonane, 3-methyl- (8CI9CI)	142	C10H22
3. Decane, 4-methyl- (8CI9CI)	156	C11H24
4. Undecane, 4,5-dimethyl- (8CI)	184	C13H28
5. Heptane, 5-ethyl-2-methyl- (8CI9CI)	142	C10H22

Sample file: >K9S06 Spectrum #: 929
Search speed: 1 Tilting option: N No. of ion ranges searched: 52

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	41	62108252	3963	"BIGDB	54	44	0	0	69	37	17	30
2.	35*	5911046	11159	"BIGDB	35	49	0	0	30	50	11	36
3.	35	2847725	3947	"BIGDB	46	40	0	0	48	41	12	26
4.	34	17312797	3677	"BIGDB	39	50	0	0	48	39	14	21
5.	30	13475780	3954	"BIGDB	39	47	0	0	47	45	12	21

$$\text{Conc} = \frac{50}{367343} \times 364663 \times 1 = 49.63$$

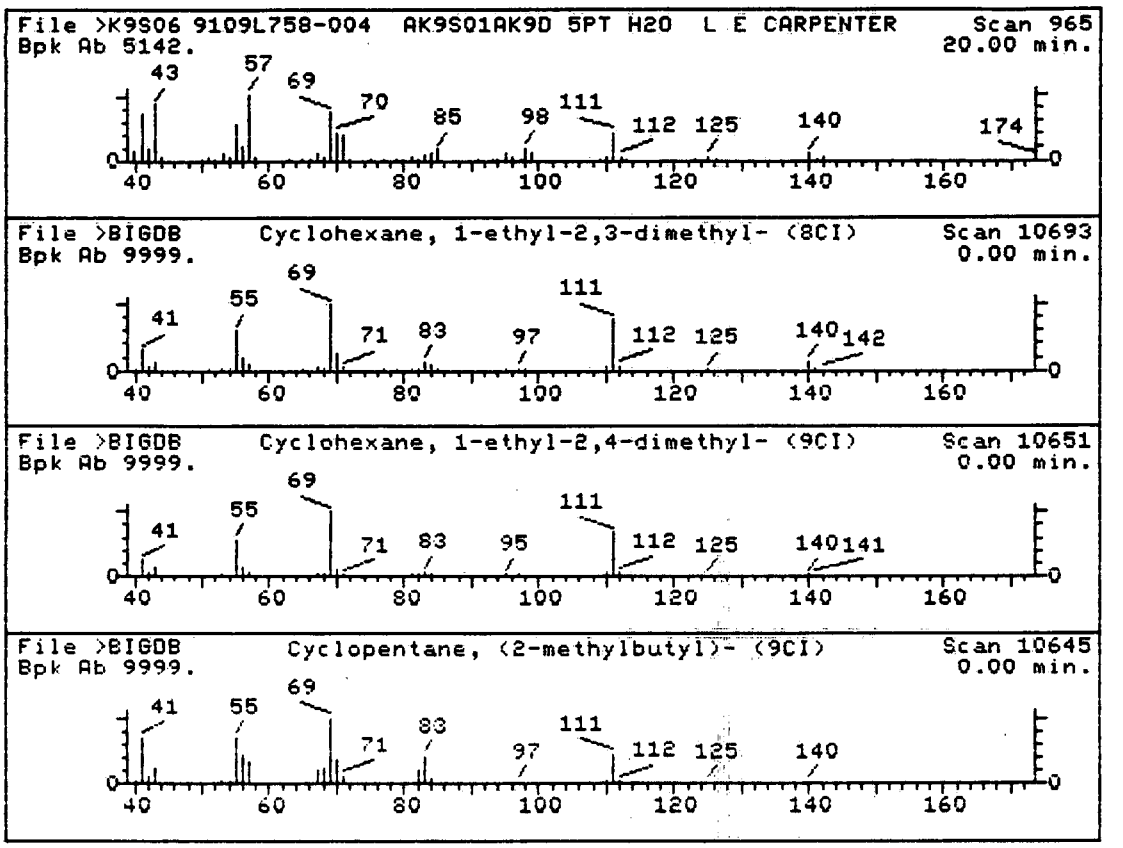


1.	Azetidine, 2-methyl-1-(1-methylethyl)- (9CI)	113	C7H15N
2.	Octane, 3,4-dimethyl- (8CI9CI)	142	C10H22
3.	Cyclooctane, 1,5-dimethyl- (8CI9CI)	140	C10H20
4.	2-Decene, 4-methyl-, (Z)- (9CI)	154	C11H22
5.	Cyclopropane, 1,2-dimethyl-1-pentyl- (9CI)	140	C10H20

Sample file: >K9S06 Spectrum #: 955
Search speed: 1 Tilting option: N No. of ion ranges searched: 51

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	35*	55683324	8614	"BIGDB	34	60	0	0	28	48	11	33
2.	30*	15869928	5929	"BIGDB	30	58	0	0	79	46	10	22
3.	28*	21328574	3750	"BIGDB	60	38	2	0	46	54	8	38
4.	28	74630301	5796	"BIGDB	53	46	1	0	69	43	8	16
5.	26*	62238044	5836	"BIGDB	36	66	2	0	57	43	8	14

$$\text{Conc} = \frac{50}{367343} \times 275394 \times 1 = 37.48$$

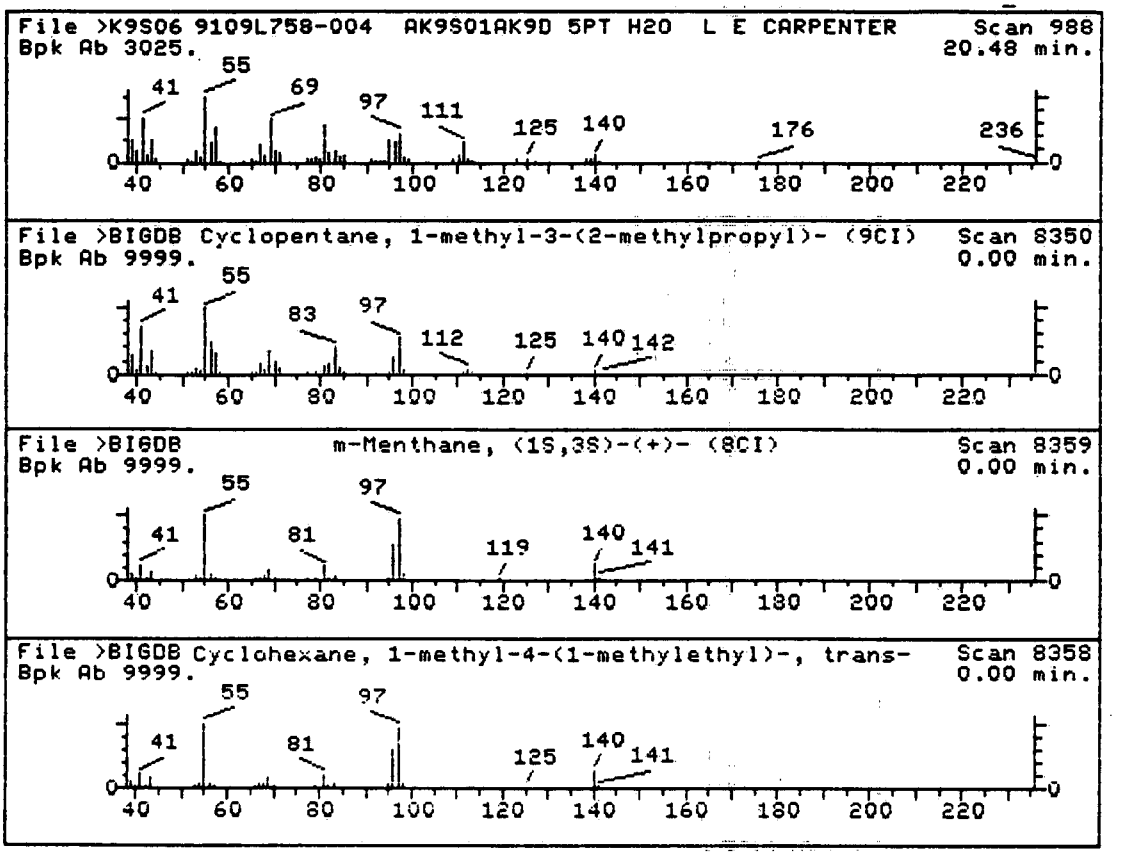


1. Cyclohexane, 1-ethyl-2,3-dimethyl- (8CI)	140	C10H20
2. Cyclohexane, 1-ethyl-2,4-dimethyl- (9CI)	140	C10H20
3. Cyclopentane, (2-methylbutyl)- (9CI)	140	C10H20
4. 1-Pentene, 3-ethyl- (8CI9CI)	98	C7H14
5. Cyclohexane, 2-ethyl-1,3-dimethyl- (8CI)	140	C10H20

Sample file: >K9S06 Spectrum #: 965
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	71*	7058051	10693	"BIGDB	54	47	0	0	52	27	29	66
2.	52*	61142696	10651	"BIGDB	39	51	0	0	60	36	19	43
3.	52*	53366384	10645	"BIGDB	45	67	3	0	73	19	20	13
4.	49*	4038044	3592	"BIGDB	49	47	0	0	71	50	13	59
5.	48*	7045672	10692	"BIGDB	50	50	1	0	64	31	20	32

$$\text{Conc} = \frac{50}{367343} \times 394037 \times 1 = 53.63$$

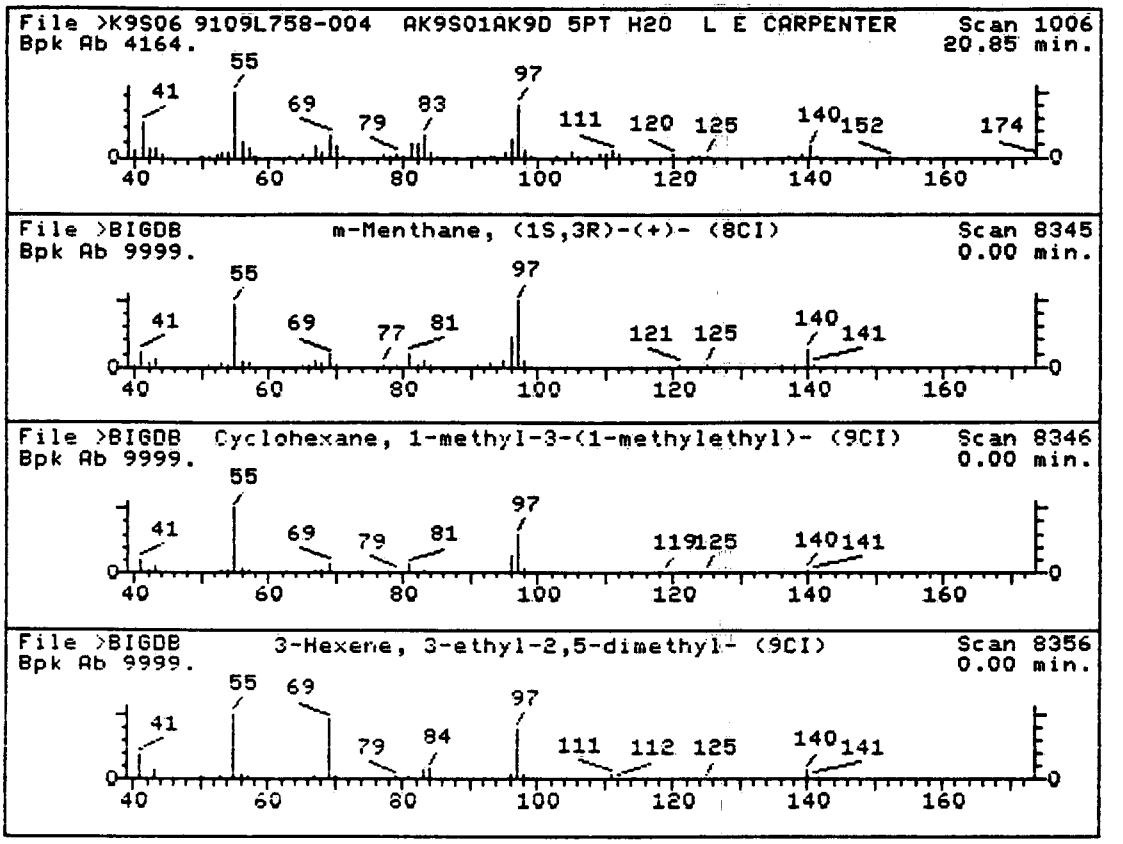


1. Cyclopentane, 1-methyl-3-(2-methylpropyl)- (9CI) 140 C10H20
2. m-Menthane, (1S,3S)-(+)- (8CI) 140 C10H20
3. Cyclohexane, 1-methyl-4-(1-methylethyl)-, trans- (9C 140 C10H20
4. Cyclopentane, 1,2-dimethyl-3-(1-methylethyl)- (9CI) 140 C10H20
5. Cyclohexane, 1-methyl-4-(1-methylethyl)-, cis- (9CI) 140 C10H20

Sample file: >K9S06 Spectrum #: 988
Search speed: 1 Tilting option: N No. of ion ranges searched: 42

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	30*	29053041	8350	"BIGDB	49	63	2	0	84	49	10	22
2.	30*	13837677	8359	"BIGDB	29	51	0	0	37	47	10	21
3.	30*	1678826	8358	"BIGDB	29	54	0	0	38	43	12	21
4.	30*	489203	8206	"BIGDB	32	65	0	0	69	49	10	27
5.	30*	6069983	8344	"BIGDB	30	67	0	0	58	47	10	22

$$\text{CONC} = \frac{50}{367343} \times 515899 \times 1 = 70.21$$

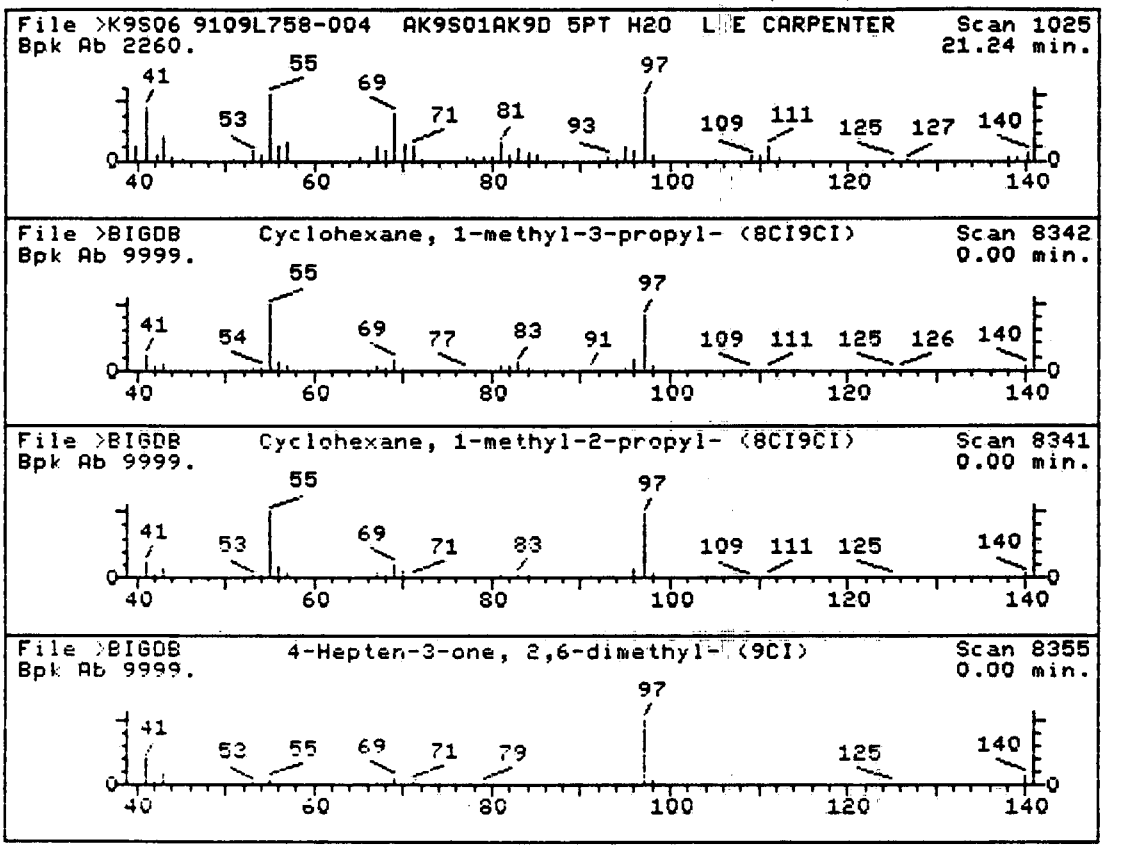


1. m-Menthane, (1S,3R)-(+)- (8CI) 140 C10H20
2. Cyclohexane, 1-methyl-3-(1-methylethyl)- (9CI) 140 C10H20
3. 3-Hexene, 3-ethyl-2,5-dimethyl- (9CI) 140 C10H20
4. Diisoamylene (9CI) 140 C10H20
5. Cyclopentane, 1,2-dimethyl-3-(1-methylethyl)- (9CI) 140 C10H20

Sample file: >K9S06 Spectrum #: 1006
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	50*	13837666	8345	"BIGDB	51	46	1	0	58	33	20	34
2.	49*	16580248	8346	"BIGDB	34	53	0	0	100	33	20	33
3.	42*	62338083	8356	"BIGDB	46	53	2	0	100	30	14	19
4.	42*	54063091	8354	"BIGDB	28	79	3	0	130	25	17	13
5.	41*	489203	8206	"BIGDB	52	45	0	0	72	54	11	63

$$\text{Conc} = \frac{50}{367343} \times 555572 \times 1 = 75.61$$

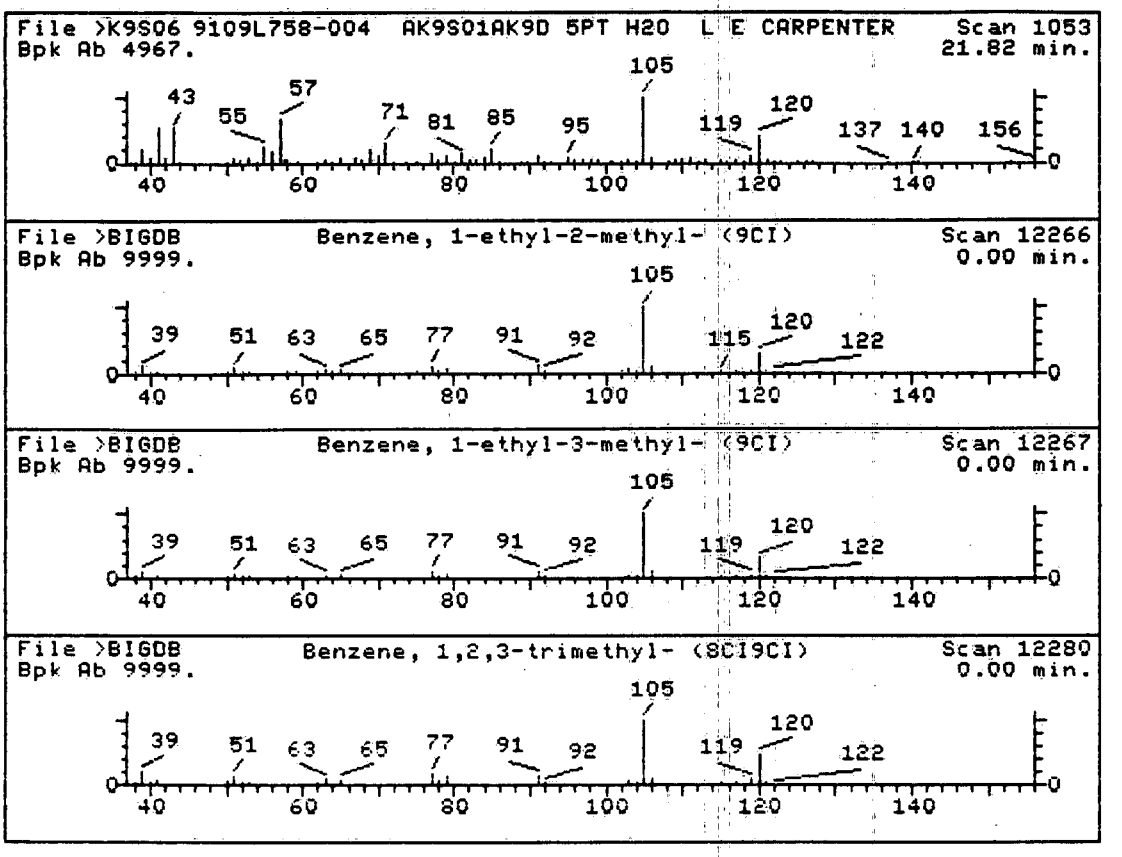


1.	Cyclohexane, 1-methyl-3-propyl- (8CI9CI)	140	C10H20
2.	Cyclohexane, 1-methyl-2-propyl- (8CI9CI)	140	C10H20
3.	4-Hepten-3-one, 2,6-dimethyl- (9CI)	140	C9H16O
4.	Cyclopentane, (1-methylbutyl)- (9CI)	140	C10H20
5.	Cyclohexane, 1,1-dimethyl- (8CI9CI)	112	C8H16

Sample file: >K9S06 Spectrum #: 1025
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	51*	4291809	8342	"BIGDB	46	46	0	0	97	44	17	54
2.	47*	4291796	8341	"BIGDB	42	47	0	0	98	44	16	48
3.	35*	56259144	8355	"BIGDB	36	44	0	0	79	47	11	39
4.	35*	4737433	8210	"BIGDB	63	45	3	0	100	48	11	31
5.	30*	590669	8257	"BIGDB	38	60	1	0	94	44	12	21

$$\text{CONC} = \frac{50}{367343} \times 301757 \times 1 = 41.07$$

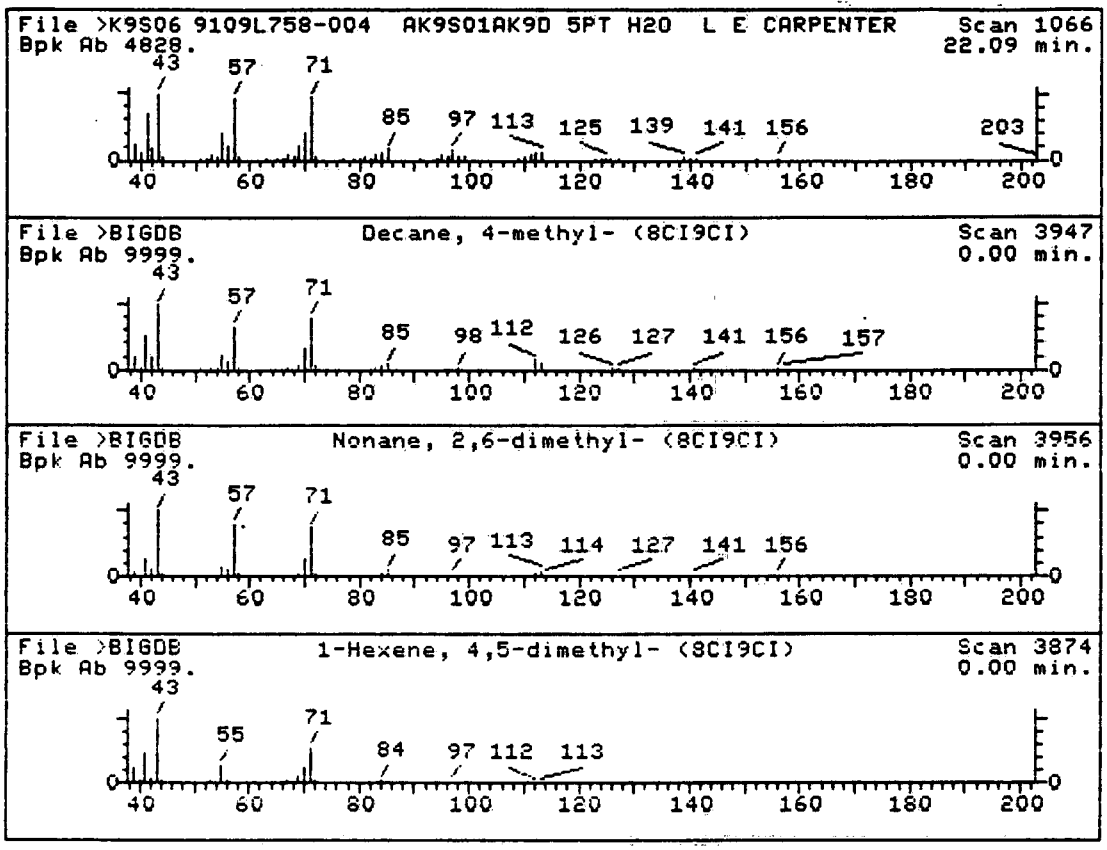


1. Benzene, 1-ethyl-2-methyl- (9CI)	120	C9H12
2. Benzene, 1-ethyl-3-methyl- (9CI)	120	C9H12
3. Benzene, 1,2,3-trimethyl- (8CI9CI)	120	C9H12
4. Benzene, 1,2,4-trimethyl- (8CI9CI)	120	C9H12
5. Benzene, (1-methylethyl)- (9CI)	120	C9H12

Sample file: >K9S06 Spectrum #: 1053
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	65*	611143	12266	"BIGDB	65	20	2	0	100	34	24	55
2.	65*	620144	12267	"BIGDB	65	22	2	0	100	33	24	55
3.	62*	526738	12280	"BIGDB	66	34	2	0	76	30	25	45
4.	56*	95636	12273	"BIGDB	67	28	1	0	63	50	14	66
5.	47*	98828	12259	"BIGDB	55	32	1	0	77	44	17	50

$$\text{CONC} = \frac{50}{367343} \times 543458 \times 1 = 73.96$$

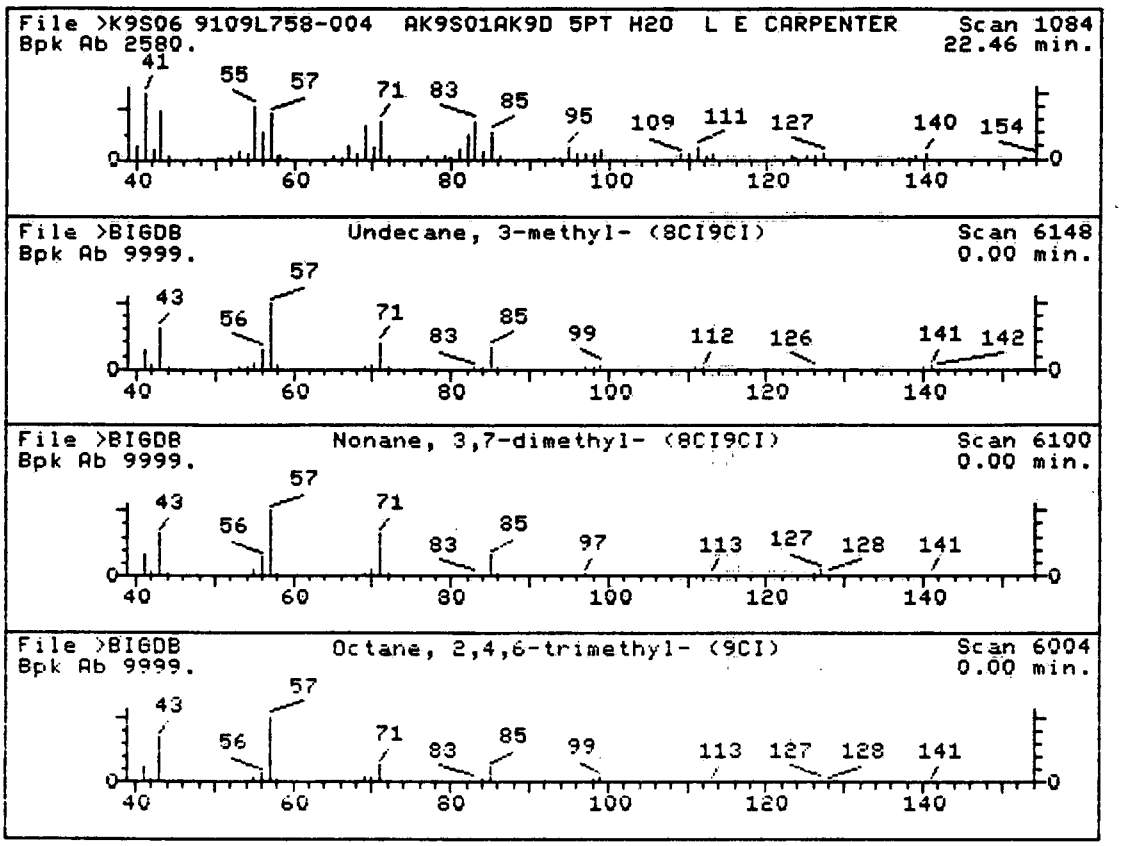


1. Decane, 4-methyl- (8CI9CI)	156	C11H24
2. Nonane, 2,6-dimethyl- (8CI9CI)	156	C11H24
3. 1-Hexene, 4,5-dimethyl- (8CI9CI)	112	C8H16
4. Dodecane, 4,6-dimethyl- (9CI)	198	C14H30
5. 1-Hexene, 3,4,5-trimethyl- (9CI)	126	C9H18

Sample file: >K9S06 Spectrum #: 1066
Search speed: 1 Tilting option: N No. of ion ranges searched: 42

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	73*	2847725	3947	"BIGDB	66	35	1	0	100	21	32	66
2.	71*	17302282	3956	"BIGDB	50	41	0	0	97	28	29	60
3.	62*	16106595	3874	"BIGDB	53	34	1	0	127	30	25	46
4.	51	61141728	3960	"BIGDB	66	44	1	0	82	24	22	23
5.	51*	56728100	3922	"BIGDB	48	37	1	0	100	31	20	35

$$\text{CONC} = \frac{50}{367343} \times 385614 \times 1 = 52.48$$

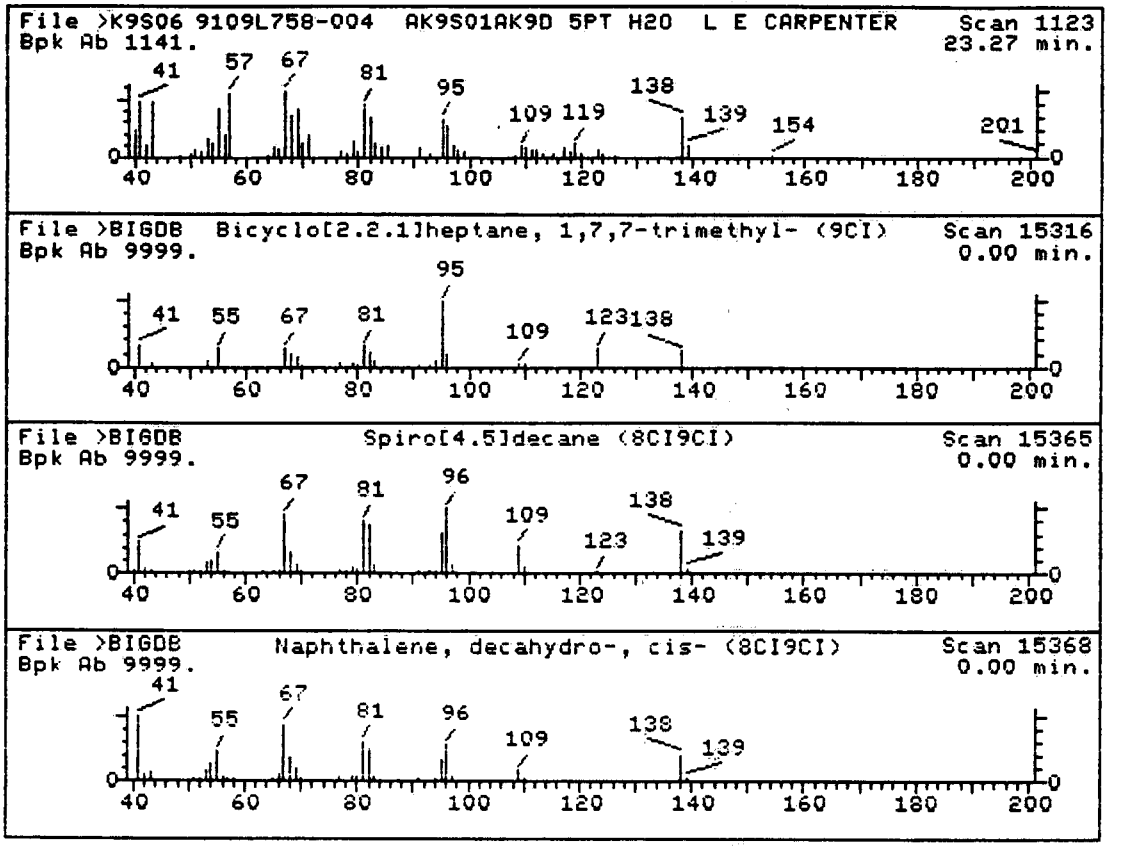


1. Undecane, 3-methyl- (8CI9CI)	170	C12H26
2. Nonane, 3,7-dimethyl- (8CI9CI)	156	C11H24
3. Octane, 2,4,6-trimethyl- (9CI)	156	C11H24
4. Pentacosane (8CI9CI)	352	C25H52
5. Nonacosane (8CI9CI)	408	C29H60

Sample file: >K9S06 Spectrum #: 1084
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	29	1002433	6148	"BIGDB	45	43	2	0	123	40	10	15
2.	25	17302328	6100	"BIGDB	42	44	1	0	87	50	7	15
3.	25	62016379	6004	"BIGDB	37	48	2	0	176	50	7	12
4.	24	629992	6092	"BIGDB	58	82	0	0	74	52	7	27
5.	24	630035	8905	"BIGDB	55	90	0	0	73	52	7	25

$$\text{CONC} = \frac{50}{367343} \times 222380 \times 1 = 30.27$$



1.	Bicyclo[2.2.1]heptane, 1,7,7-trimethyl- (9CI)	138	C10H18
2.	Spiro[4.5]decane (8CI9CI)	138	C10H18
3.	Naphthalene, decahydro-, cis- (8CI9CI)	138	C10H18
4.	4,5-Nonadiene, 2-methyl- (9CI)	138	C10H18
5.	Cyclododecene, (Z)- (8CI9CI)	166	C12H22

Sample file: >K9S06 Spectrum #: 1123
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	62*	464153	15316	"BIGDB	67	38	2	0	245	30	25	46
2.	61*	176636	15365	"BIGDB	67	57	2	0	78	33	22	46
3.	57*	493016	15368	"BIGDB	56	62	0	0	80	48	14	67
4.	50*	55956326	5263	"BIGDB	63	55	1	0	92	49	14	60
5.	43	1129891	5487	"BIGDB	89	40	2	0	67	35	16	26

$$\text{Conc} = \frac{50}{367343} \times 175016 \times 1 = 23.82$$

1A
VOLATILE ORGANICS ANALYSIS SHEET

0000102

CLIENT SAMPLE NO.

MW-5

Lab Name: Roy F. Weston, Inc. Work Order: 3600-04-90-0000

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 9109L758-005

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W092519

Level: (low/med) LOW

Date Received: 09/20/91

% Moisture: not dec. _____

Date Analyzed: 09/25/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	28	B
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
110-75-8	2-chloroethylvinylether	10	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	2	J
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
75-69-4	Trichlorofluoromethane	5	U
1330-20-7	Xylene (total)	2	J

1E 0000103

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

MW-5

Lab Name: Roy F. Weston, Inc. Work Order: 3600-04-90-0000

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 9109L758-005

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W092519

Level: (low/med) LOW

Date Received: 09/20/91

% Moisture: not dec. _____

Date Analyzed: 09/25/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

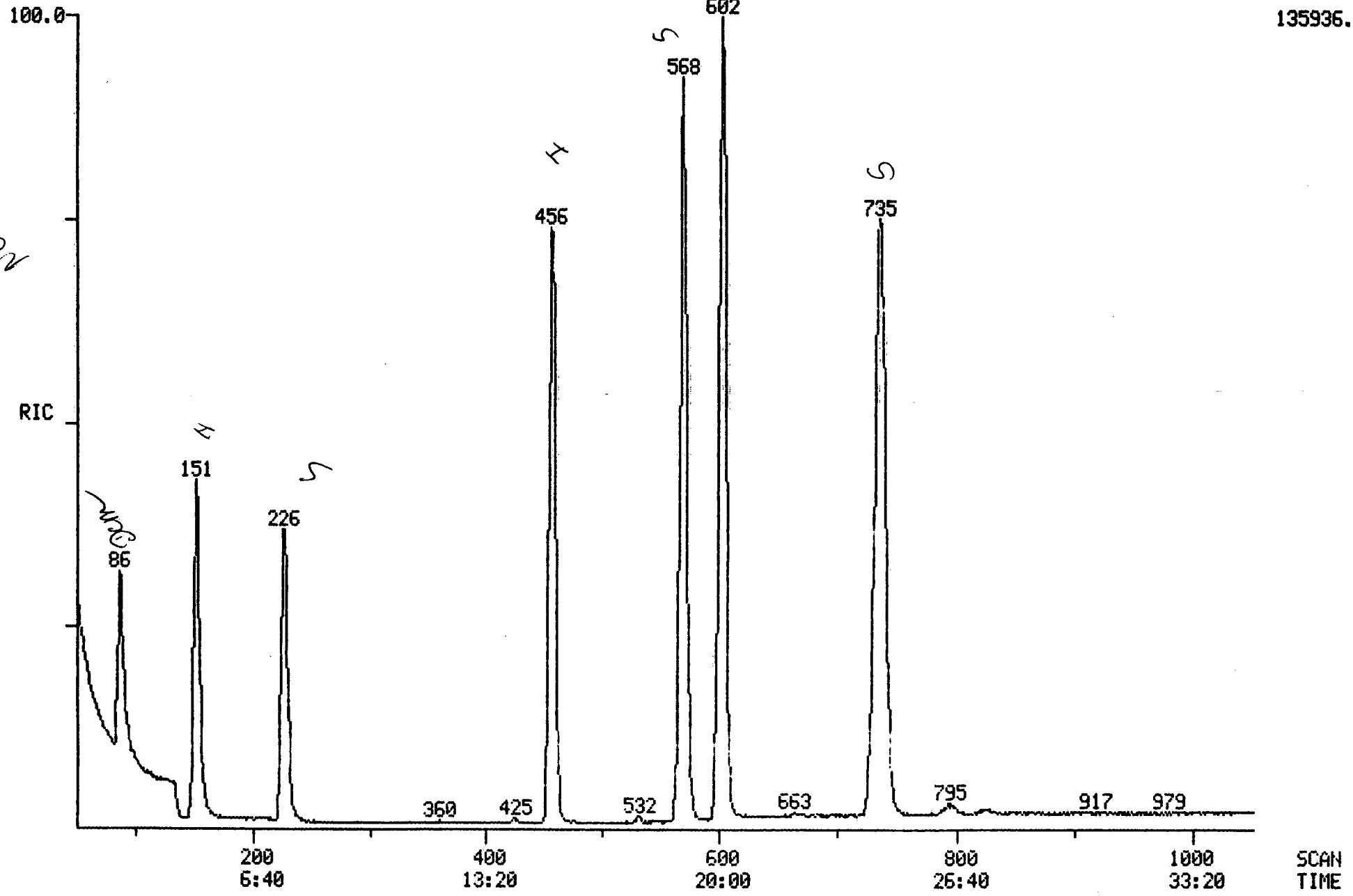
CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

RIC
09/25/91 22:39:00
SAMPLE: 9109L758-005 L.E.CARPENTER 5.0ML
CONDS.: 1050W, VO, METHOD 2
RANGE: G 1,1050 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: W092519 #1
CALI: W092519 #2

SCANS 50 TO 1050



Quantitation Report File: W092519

Data: W092519.TI
09/25/91 22:39:00
Sample: 9109L758-005 L.E.CARPENTER 5.0ML
Conds.: 1050W, VO, METHOD 2
Formula: W092504 Instrument: 1050W Weight: 0.008
Submitted by: Analyst: PSS Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	IS1	BROMOCHLOROMETHANE	INTERNAL STANDARD #1
2	SS1	1,2-DICHLOROETHANE D4	SURROGATE STANDARD#1
3	45V	CHLOROMETHANE	
4	46V	BROMOMETHANE	
5	88V	VINYL CHLORIDE	
6	16V	CHLOROETHANE	
7	44V	METHYLENE CHLORIDE	
8	13H	ACETONE	
9	21H	ACROLEIN	
10	15H	CARBON DISULFIDE	
11	24H	TRICHLOROFLUOROMETHANE	
12	22H	ACRYLONITRILE	
13	29V	1,1-DICHLOROETHYLENE	
14	13V	1,1-DICHLOROETHANE	
15		1,2-DICHLOROETHENE (TOTAL)	
16	23V	CHLOROFORM	
17	10V	1,2-DICHLOROETHANE	
18	14H	2-BUTANONE	
19		CYCLOHEXANE	
20	IS2	1,4-DIFLUOROBENZENE	INTERNAL STANDARD #2
21	11V	1,1,1-TRICHLOROETHANE	
22	6V	CARBON TETRACHLORIDE	
23	19H	VINYL ACETATE	
24	48V	BROMODICHLOROMETHANE	
25	32V	1,2-DICHLOROPROPANE	
26	33VC	CIS-1,3-DICHLOROPROPENE	
27		TRICHLOROETHYLENE	
28	51V	DIBROMOCHLOROMETHANE	
29	14V	1,1,2-TRICHLOROETHANE	
30	4V	BENZENE	
31	33VT	TRANS-1,3-DICHLOROPROPENE	
32		2-CHLOROETHYLVINYLETHER	
33	47V	BROMOFORM	
34	IS3	CHLOROBENZENE D5	INTERNAL STANDARD #3
35	SS2	TOLUENE D8	SURROGATE STANDARD #2
36	SS3	4-BROMOFLUOROBENZENE	SURROGATE STANDARD #3
37	17H	4-METHYL-2-PENTANONE	
38	16H	2-HEXANONE	
39	85V	TETRACHLOROETHYLENE	
40	15V	1,1,2,2-TETRACHLOROETHANE	
41	86V	TOLUENE	
42	7V	CHLOROBENZENE	
43	38V	ETHYLBENZENE	
44	18H	STYRENE	
45		XYLENES (TOTAL)	
46	26B	1,3-DICHLOROBENZENE	
47	25B	1,2-DICHLOROBENZENE	

No	Name	
48	27B	1,4-DICHLOROBENZENE
49		XYLENES
50		METHYL-T-BUTYLETHER

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	151	5:02	1	1.000	A BB	41950.	50.000 UG/L	13.85
2	65	226	7:32	1	1.497	A BB	110298.	49.208 UG/L	13.63
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	84	86	2:52	1	0.570	A BB	31157.	28.455 UG/L	7.88
8	43	98	3:16	1	0.649	A BB	5590.	21.308 UG/L	5.90
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	83	207	6:54	1	1.371	A BB	238.	0.106 UG/L	0.03
17	NOT FOUND								
18	NOT FOUND								
19	NOT FOUND								
20	114	456	15:12	20	1.000	A BB	223540.	50.000 UG/L	13.85
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	NOT FOUND								
26	NOT FOUND								
27	130	359	11:58	20	0.787	A BB	231.	0.119 UG/L	0.03
28	NOT FOUND								
29	NOT FOUND								
30	NOT FOUND								
31	NOT FOUND								
32	NOT FOUND								
33	NOT FOUND								
34	117	602	20:04	34	1.000	A BB	222688.	50.000 UG/L	13.85
35	98	568	18:56	34	0.944	A BB	254052.	52.453 UG/L	14.52
36	95	736	24:32	34	1.223	A BB	197579.	54.425 UG/L	15.07
37	NOT FOUND								
38	NOT FOUND								
39	164	531	17:42	34	0.882	A BB	818.	0.440 UG/L	0.12
40	NOT FOUND								
41	92	574	19:08	34	0.953	A BB	6220.	2.338 UG/L	0.65
42	NOT FOUND								
43	NOT FOUND								
44	NOT FOUND								
45	106	825	27:30	34	1.370	A BB	1242.	0.667 UG/L	0.18
46	NOT FOUND								
47	NOT FOUND								
48	NOT FOUND								
49	106	796	26:32	34	1.322	A BB	3214.	1.685 UG/L	0.47
50	NOT FOUND								

NJT

PSS 10/21

Quantitation Report File: W092519

Data: W092519.TI
09/25/91 22:39:00
Sample: 9109L758-005 L.E.CARPENTER 5.0ML
Conds.: 1050W, VO, METHOD 2
Formula: W092504 Instrument: 1050W Weight: 0.008
Submitted by: Analyst: PSS Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

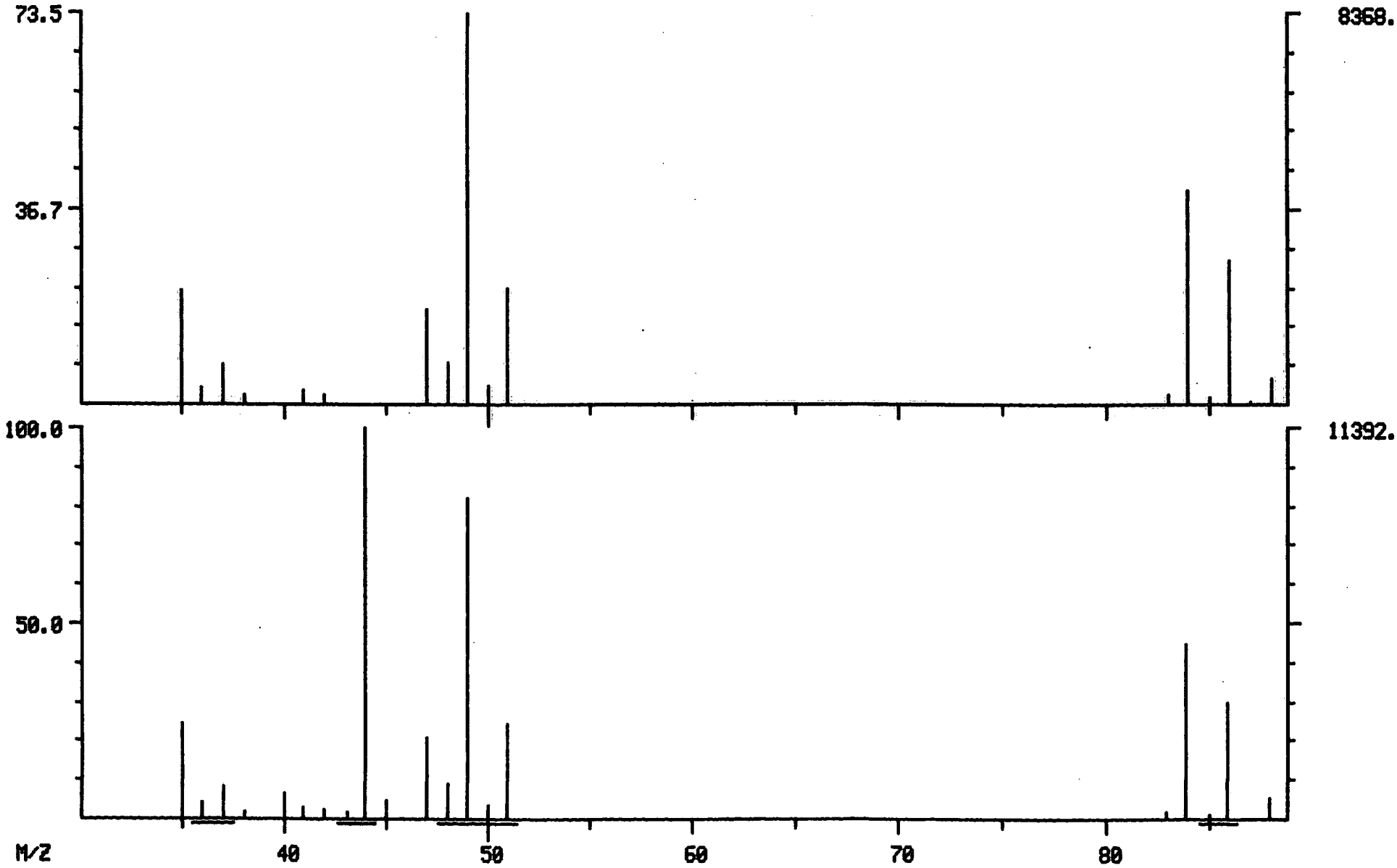
No	Name
51	DIETHYLETHER
52	T-BUTYL ALCOHOL

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	NOT FOUND								
52	NOT FOUND								

DUAL MASS SPECTRUM
09/25/91 22:39:00 + 2:52
SAMPLE: 9109L758-005 L.E.CARPENTER 5.0ML
CONDS.: 1050W, VO, METHOD 2
GC TEMP: 76 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: W092519 #86
CALI: W092519 #2

BASE M/Z: 49/ 44
RIC: 27135./ 43263.

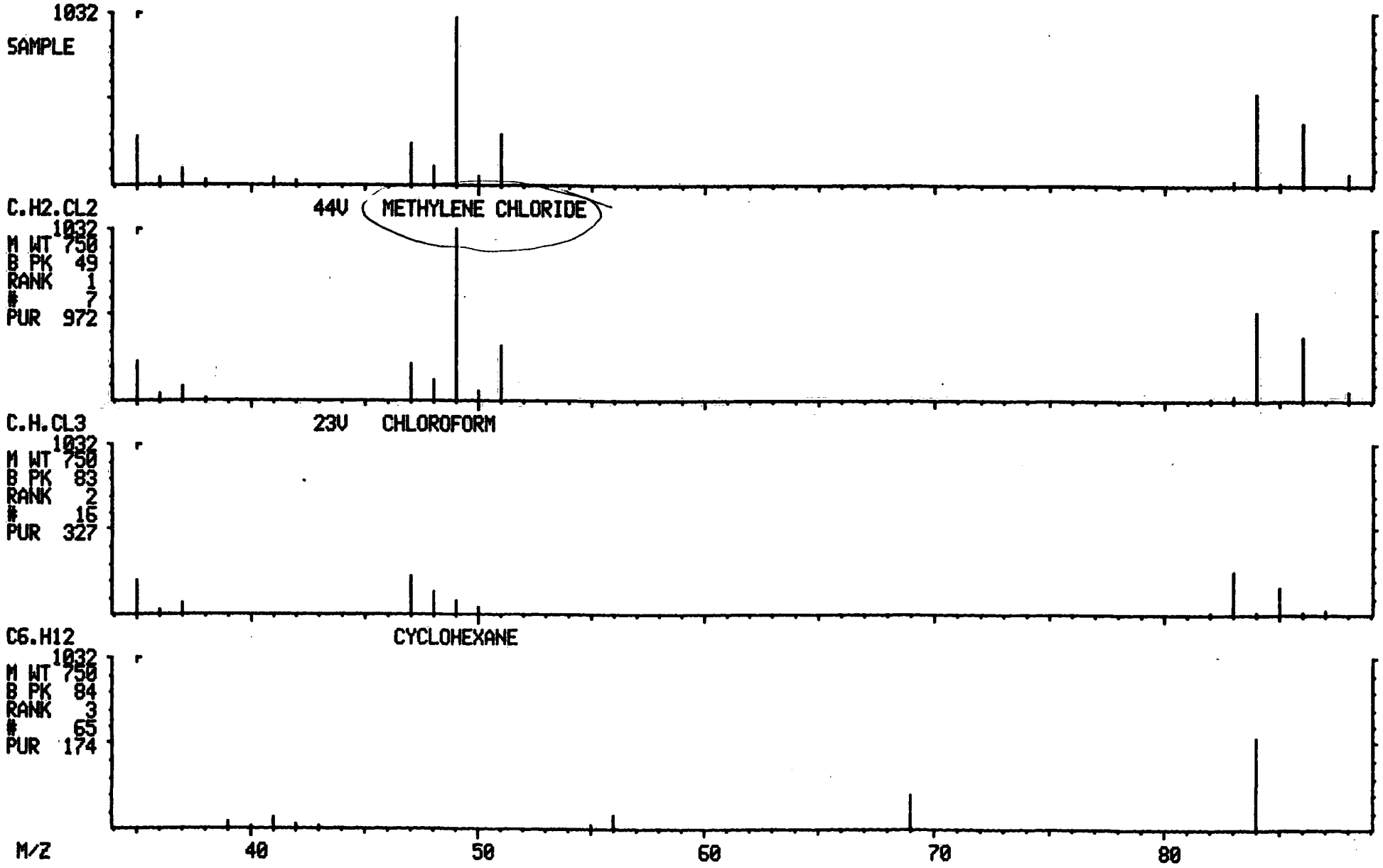


000010

LIBRARY SEARCH
09/25/91 22:39:00 + 2:52
SAMPLE: 9109L758-005 L.E.CARPENTER 5.0ML
CONDS.: 1050W, VO, METHOD 2
ENHANCED (S 15B 2N 0T)

DATA: W092519 # 86
CALI: W092519 # 2

BASE M/Z: 49
RIC: 27103.

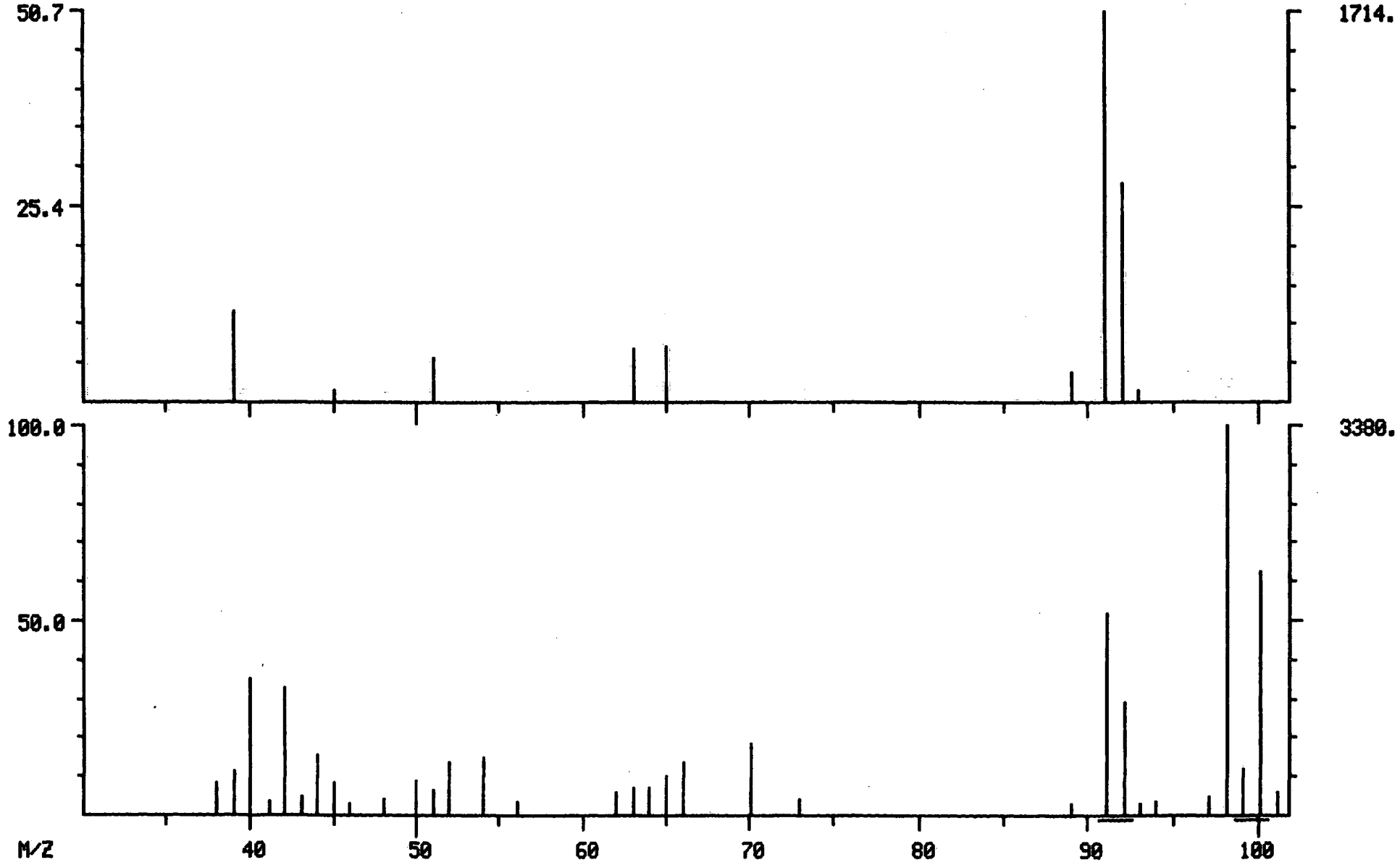


000109

DUAL MASS SPECTRUM
09/25/91 22:39:00 + 19:08
SAMPLE: 9109L758-005 L.E.CARPENTER 5.0ML
CONDS.: 1050W, VO, METHOD 2
GC TEMP: 196 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: W092519 #574
CALI: W092519 #2

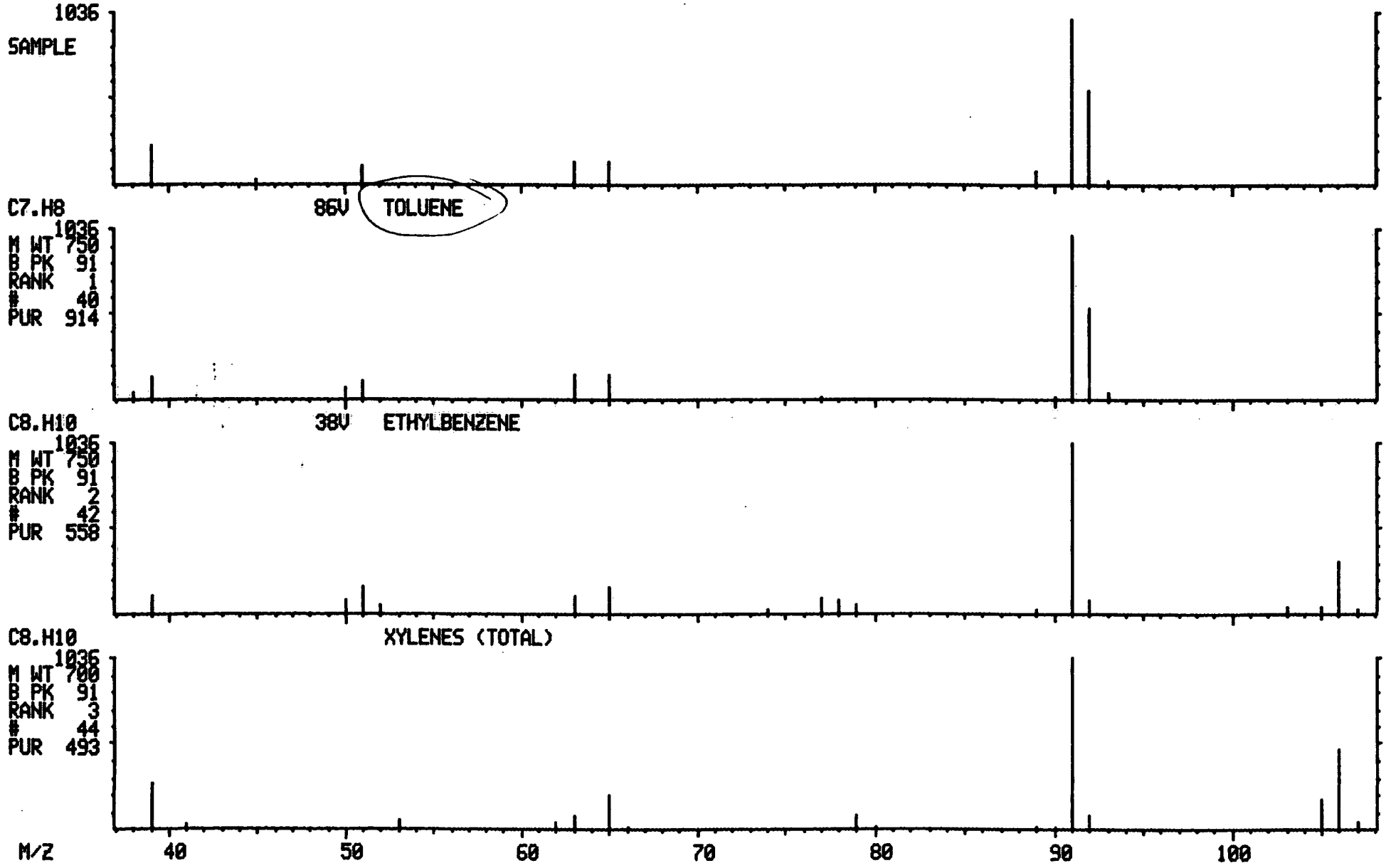
BASE M/Z: 91/ 98
RIC: 3975./ 17503.



LIBRARY SEARCH
09/25/91 22:39:00 + 19:08
SAMPLE: 9109L758-005 L.E.CARPENTER 5.0ML
CONDS.: 1050W, VO, METHOD 2
ENHANCED (S 15B 2N 0T)

DATA: W092519 # 574
CALI: W092519 # 2

BASE M/Z: 91
RIC: 3975.

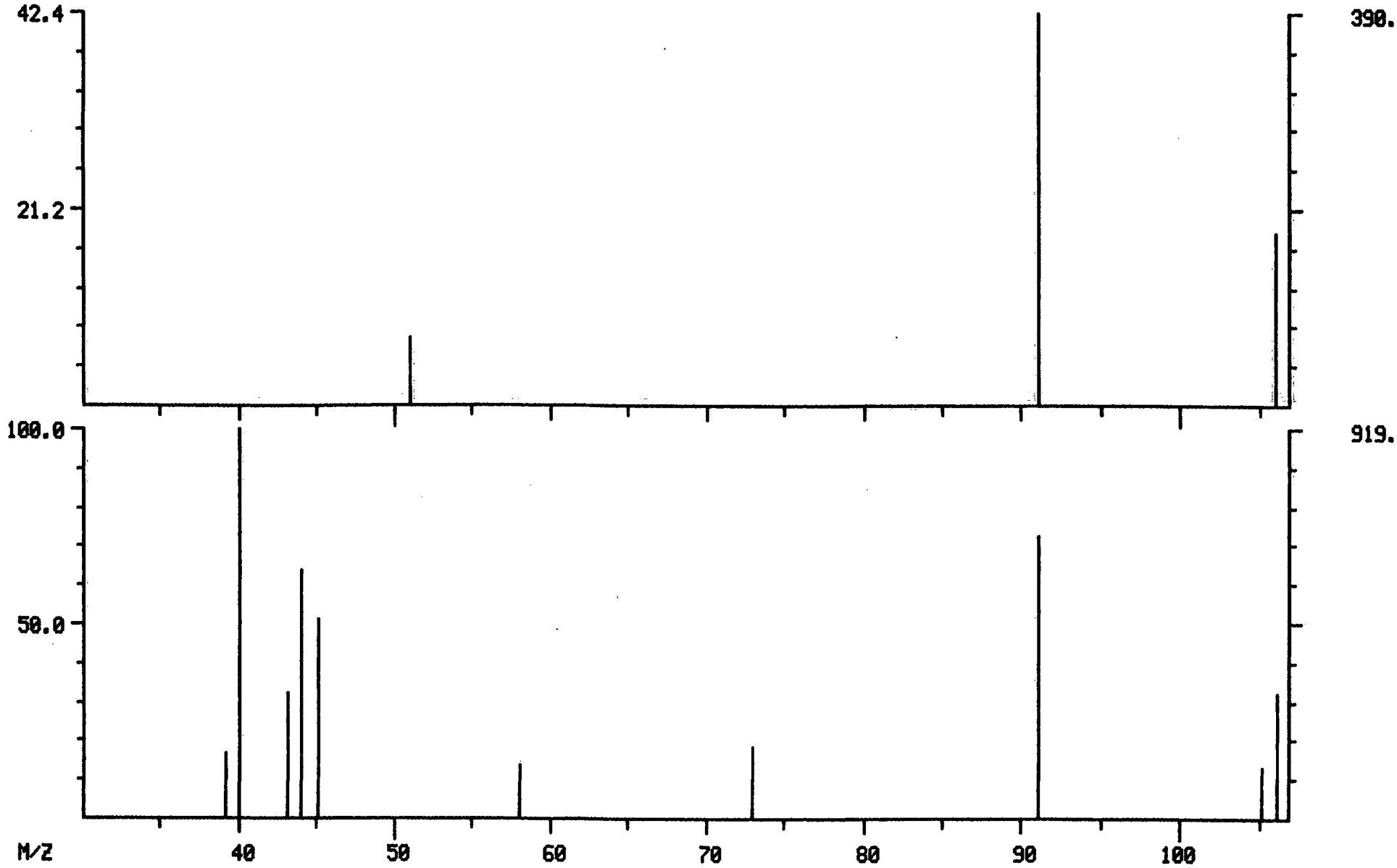


0000117

DUAL MASS SPECTRUM
09/25/91 22:39:00 + 26:32
SAMPLE: 9109L758-005 L.E.CARPENTER 5.0ML
CONDS.: 1050W, VO, METHOD 2
GC TEMP: 207 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: W092519 #796
CALI: W092519 #2

BASE M/Z: 91/ 40
RIC: 628./ 3811.

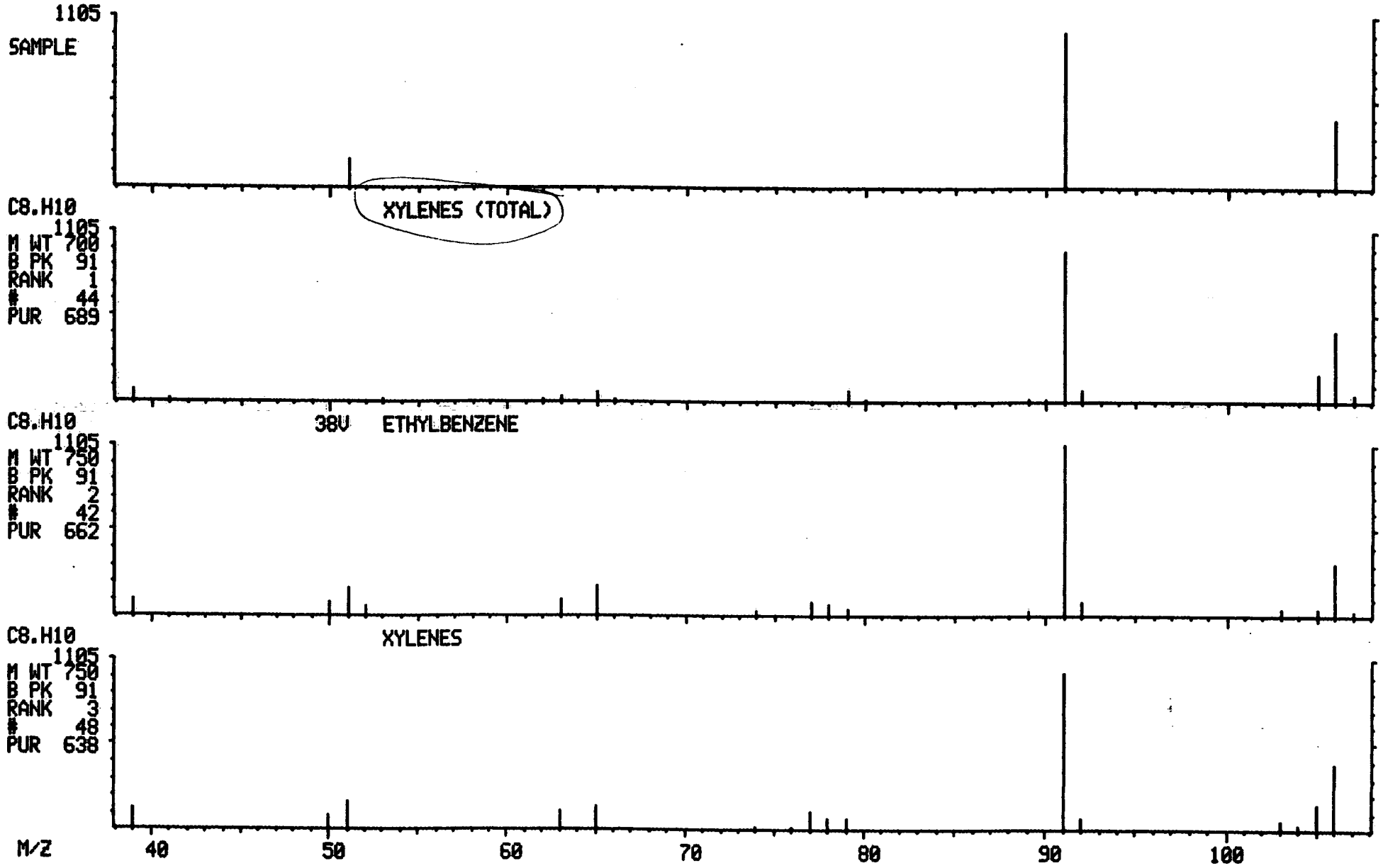


0000112

LIBRARY SEARCH
09/25/91 22:39:00 + 26:32
SAMPLE: 9109L758-005 L.E.CARPENTER 5.0ML
CONDS.: 1050W, VO, METHOD 2
ENHANCED (S 15B 2N 0T)

DATA: W092519 # 796
CALI: W092519 # 2

BASE M/Z: 91
RIC: 628.



0000113

1A

0000114 CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS SHEET

FIELD BLANK

Lab Name: Roy F. Weston, Inc. Work Order: 3600-04-90-0000

Client: WSI-LE CARPENTER

Matrix: WATER Lab Sample ID: 9109L758-006

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: W092518

Level: (low/med) LOW Date Received: 09/20/91

% Moisture: not dec. _____ Date Analyzed: 09/25/91

Column: (pack/cap) PACK Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	17	B
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
110-75-8	2-chloroethylvinylether	10	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	1	J
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
75-69-4	Trichlorofluoromethane	5	U
1330-20-7	Xylene (total)	5	U

1E

0000115

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

FIELD BLANK

Lab Name: Roy F. Weston, Inc. Work Order: 3600-04-90-0000

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 9109L758-006

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W092518

Level: (low/med) LOW

Date Received: 09/20/91

% Moisture: not dec. _____

Date Analyzed: 09/25/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

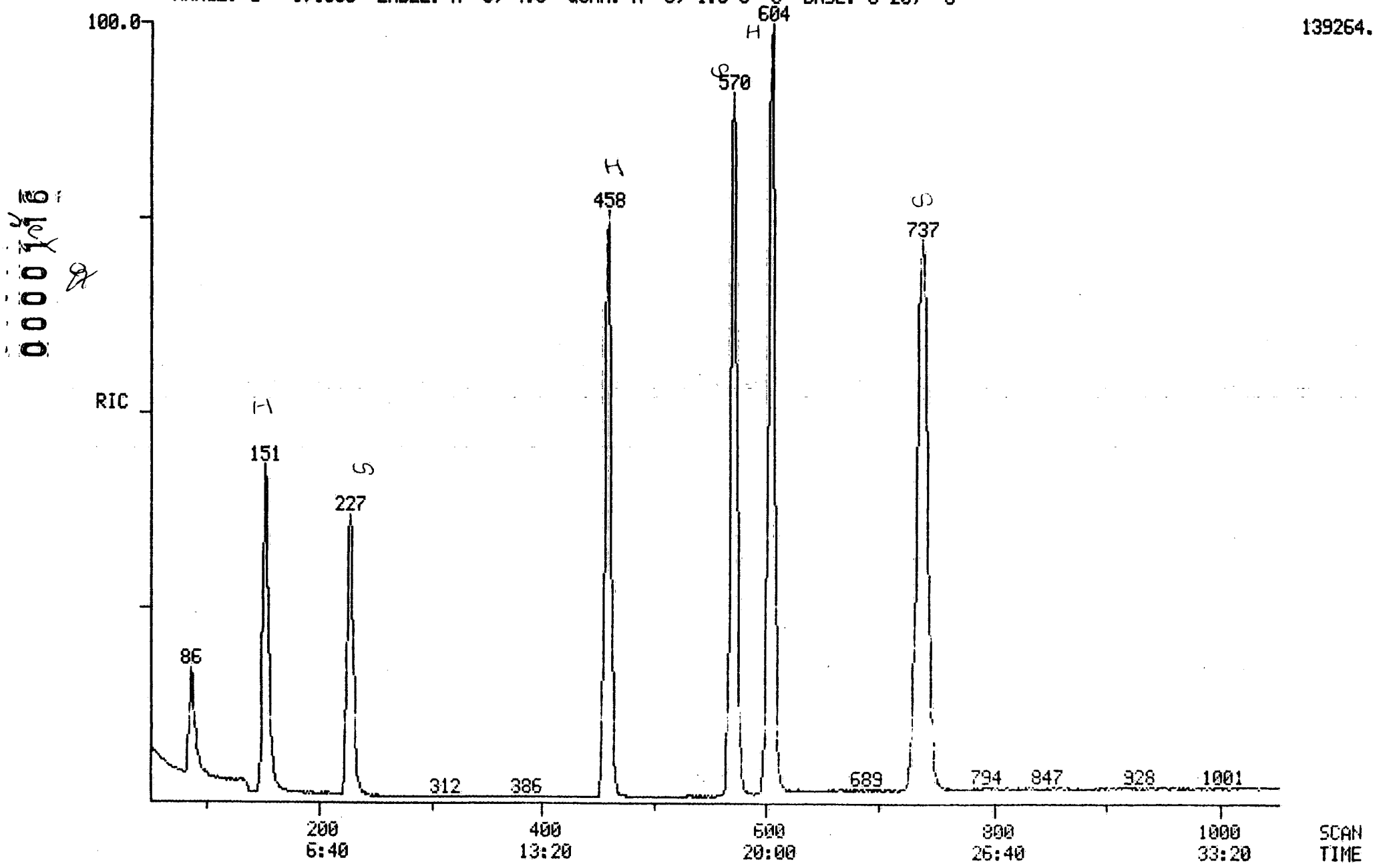
CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

RIC
09/25/91 21:59:00
SAMPLE: 9109L758-006 L.E.CARPENTER 5.0ML
CONDS.: 1050W, VO, METHOD 2
RANGE: G 1,1050 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: W092518 #1
CALI: W092518 #2

SCANS 50 TO 1050



Quantitation Report File: W092518

Data: W092518.TI
09/25/91 21:59:00
Sample: 9109L758-006 L.E.CARPENTER 5.0ML
Conds.: 1050W, VO, METHOD 2
Formula: W092504 Instrument: 1050W Weight: 0.008
Submitted by: Analyst: PSS Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	IS1	BROMOCHLOROMETHANE	INTERNAL STANDARD #1
2	SS1	1,2-DICHLOROETHANE D4	SURROGATE STANDARD#1
3	45V	CHLOROMETHANE	
4	46V	BROMOMETHANE	
5	88V	VINYL CHLORIDE	
6	16V	CHLOROETHANE	
7	44V	METHYLENE CHLORIDE	
8	13H	ACETONE	
9	21H	ACROLEIN	
10	15H	CARBON DISULFIDE	
11	24H	TRICHLOROFLUOROMETHANE	
12	22H	ACRYLONITRILE	
13	29V	1,1-DICHLOROETHYLENE	
14	13V	1,1-DICHLOROETHANE	
15		1,2-DICHLOROETHENE (TOTAL)	
16	23V	CHLOROFORM	
17	10V	1,2-DICHLOROETHANE	
18	14H	2-BUTANONE	
19		CYCLOHEXANE	
20	IS2	1,4-DIFLUOROBENZENE	INTERNAL STANDARD #2
21	11V	1,1,1-TRICHLOROETHANE	
22	6V	CARBON TETRACHLORIDE	
23	19H	VINYL ACETATE	
24	48V	BROMODICHLOROMETHANE	
25	32V	1,2-DICHLOROPROPANE	
26	33VC	CIS-1,3-DICHLOROPROPENE	
27		TRICHLOROETHYLENE	
28	51V	DIBROMOCHLOROMETHANE	
29	14V	1,1,2-TRICHLOROETHANE	
30	4V	BENZENE	
31	33VT	TRANS-1,3-DICHLOROPROPENE	
32		2-CHLOROETHYLVINYLETHER	
33	47V	BROMOFORM	
34	IS3	CHLOROBENZENE D5	INTERNAL STANDARD #3
35	SS2	TOLUENE D8	SURROGATE STANDARD #2
36	SS3	4-BROMOFLUOROBENZENE	SURROGATE STANDARD #3
37	17H	4-METHYL-2-PENTANONE	
38	16H	2-HEXANONE	
39	85V	TETRACHLOROETHYLENE	
40	15V	1,1,2,2-TETRACHLOROETHANE	
41	86V	TOLUENE	
42	7V	CHLOROBENZENE	
43	38V	ETHYLBENZENE	
44	18H	STYRENE	
45		XYLENES (TOTAL)	
46	26B	1,3-DICHLOROBENZENE	
47	25B	1,2-DICHLOROBENZENE	

No	Name	
48	27B	1,4-DICHLOROBENZENE
49		XYLENES
50		METHYL-T-BUTYLETHER

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	151	5:02	1	1.000	A BB	43617.	50.000 UG/L	15.43
2	65	227	7:34	1	1.503	A BB	111831.	47.985 UG/L	14.81
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	84	86	2:52	1	0.570	A BB	19564.	17.184 UG/L	5.30
8	43	98	3:16	1	0.649	A BB	1725.	6.326 UG/L	1.95
9	NOT FOUND								
10	NOT FOUND								
11	101	133	4:26	1	0.881	A BB	491.	0.153 UG/L	0.05
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
17	NOT FOUND								
18	NOT FOUND								
19	NOT FOUND								
20	114	458	15:16	20	1.000	A BB	235258.	50.000 UG/L	15.43
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	NOT FOUND								
26	NOT FOUND								
27	NOT FOUND								
28	NOT FOUND								
29	NOT FOUND								
30	NOT FOUND								
31	NOT FOUND								
32	NOT FOUND								
33	NOT FOUND								
34	117	604	20:08	34	1.000	A BB	232507.	50.000 UG/L	15.43
35	98	570	19:00	34	0.944	A BB	254125.	50.253 UG/L	15.51
36	95	737	24:34	34	1.220	A BB	193651.	51.090 UG/L	15.77
37	NOT FOUND								
38	NOT FOUND								
39	NOT FOUND								
40	NOT FOUND								
41	92	576	19:12	34	0.954	A BB	3169.	1.141 UG/L	0.35
42	NOT FOUND								
43	NOT FOUND								
44	NOT FOUND								
45	NOT FOUND								
46	NOT FOUND								
47	NOT FOUND								
48	NOT FOUND								
49	NOT FOUND								
50	NOT FOUND								

Quantitation Report File: W092518

Data: W092518.TI
09/25/91 21:59:00
Sample: 9109L758-006 L.E.CARPENTER 5.0ML
Conds.: 1050W, VO, METHOD 2
Formula: W092504 Instrument: 1050W Weight: 0.008
Submitted by: Analyst: PSS Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

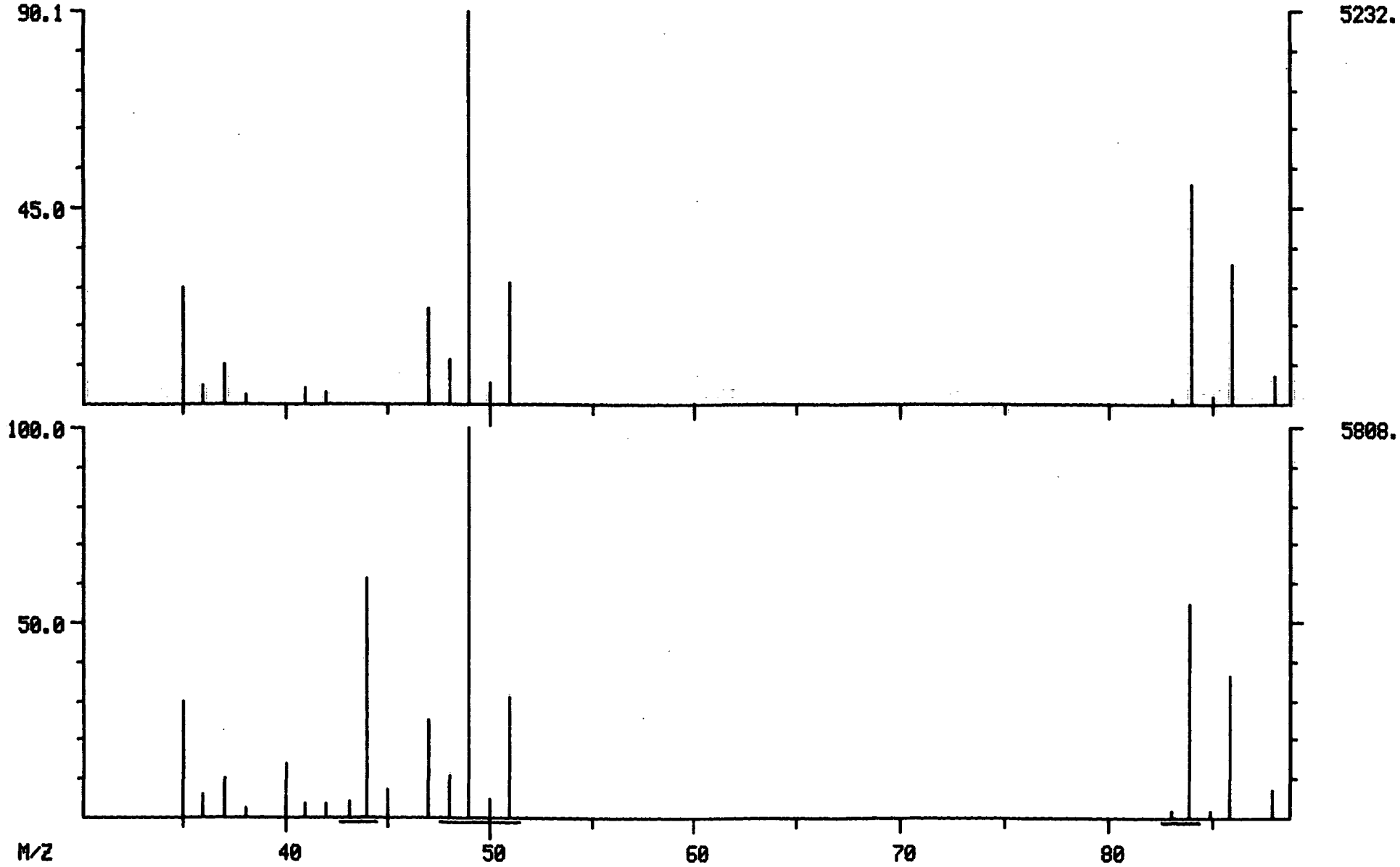
No	Name
51	DIETHYLETHER
52	T-BUTYL ALCOHOL

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	NOT FOUND								
52	NOT FOUND								

DUAL MASS SPECTRUM
09/25/91 21:59:00 + 2:52
SAMPLE: 9109L758-006 L.E.CARPENTER 5.0ML
CONDS.: 1050W, VO, METHOD 2
GC TEMP: 75 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: W092518 #86
CALI: W092518 #2

BASE M/Z: 49/ 49
RIC: 17183./ 24095.

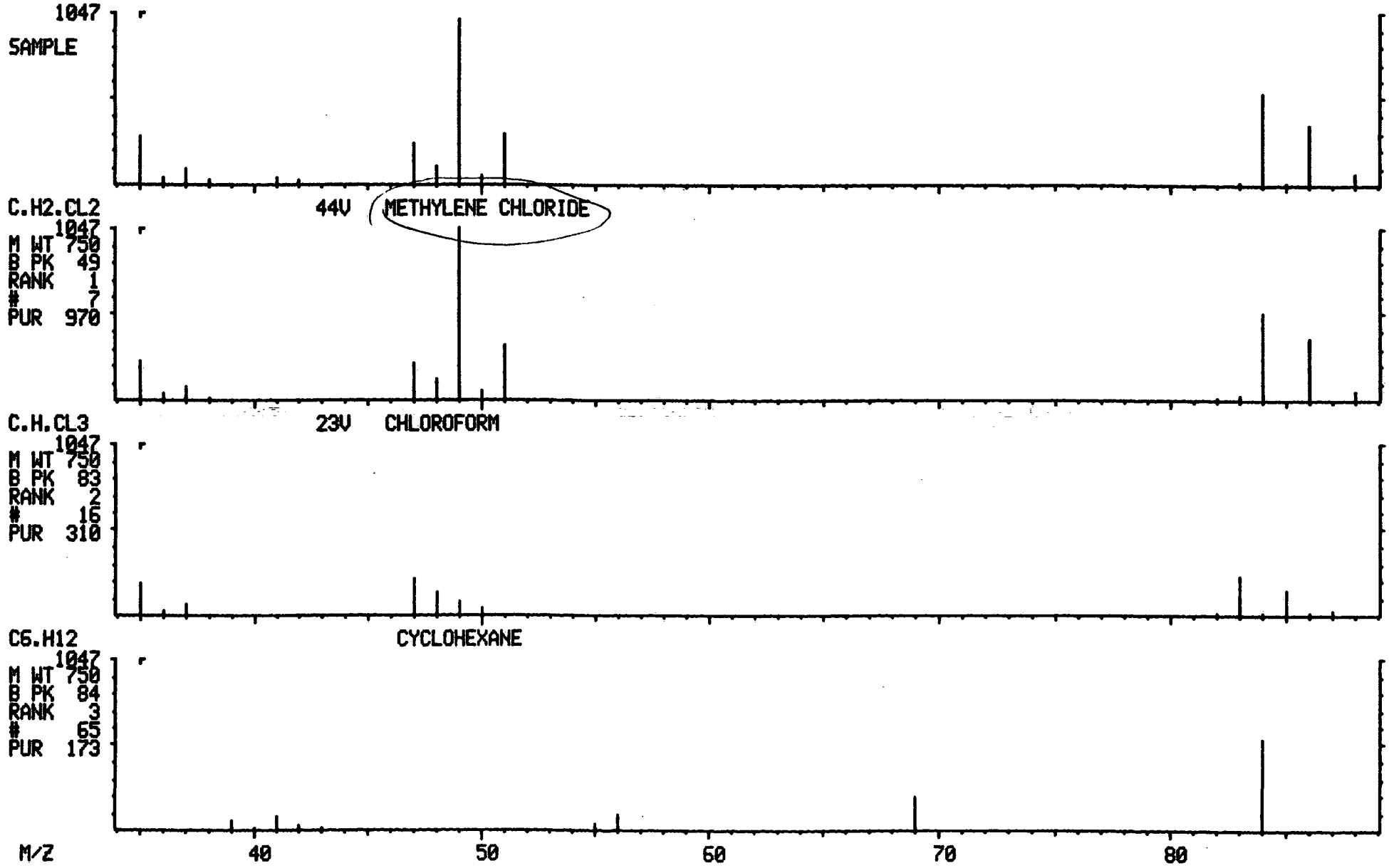


0000120

LIBRARY SEARCH
09/25/91 21:59:00 + 2:52
SAMPLE: 9109L758-006 L.E.CARPENTER 5.0ML
CONDS.: 1050W, VO, METHOD 2
ENHANCED (S 15B 2N 0T)

DATA: W092518 # 86
CALI: W092518 # 2

BASE M/Z: 49
RIC: 17183.

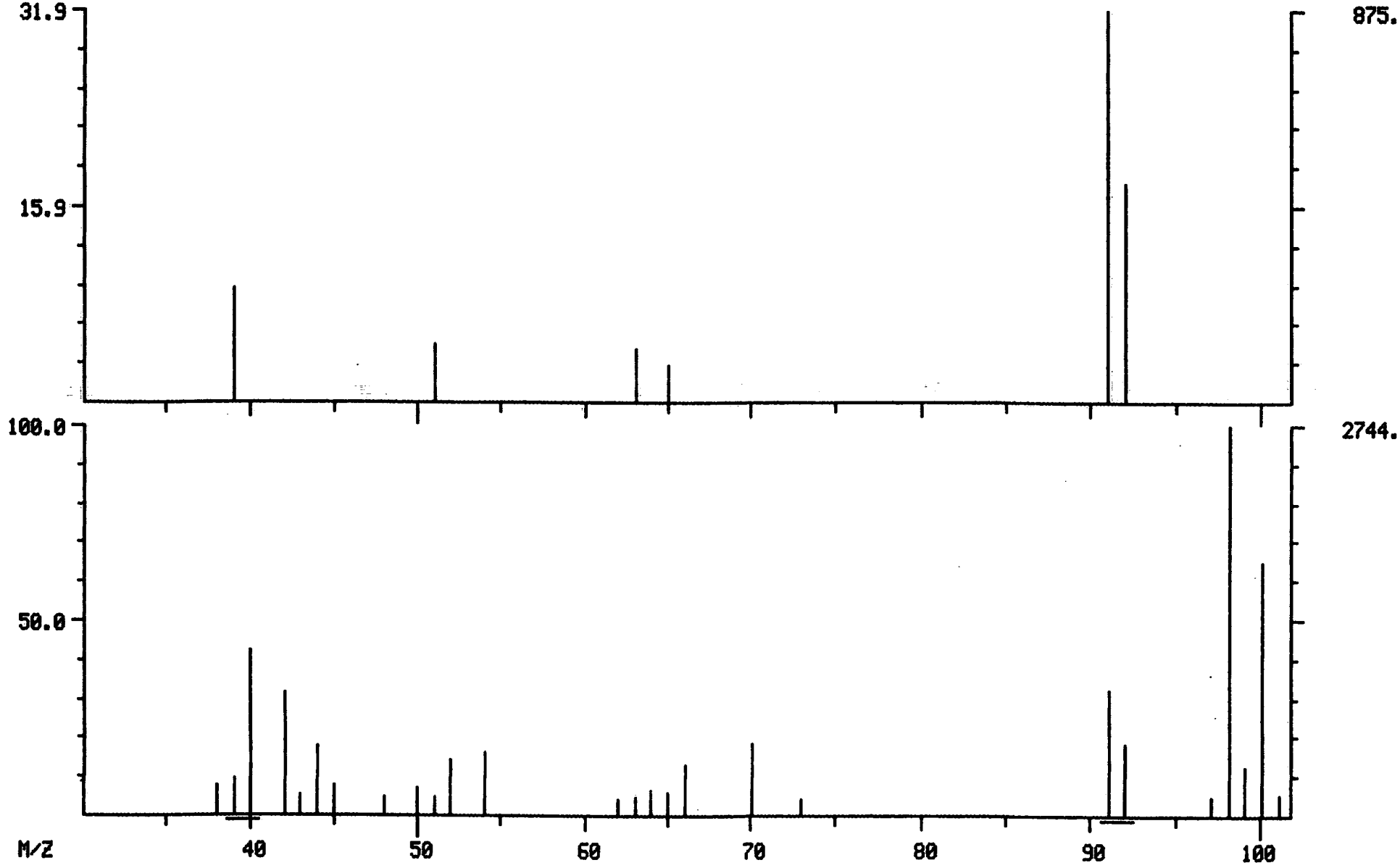


0000127

DUAL MASS SPECTRUM
09/25/91 21:59:00 + 19:12
SAMPLE: 9109L758-006 L.E.CARPENTER 5.0ML
CONDS.: 1050W, VO, METHOD 2
GC TEMP: 196 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: W092518 #576
CALI: W092518 #2

BASE M/Z: 91/ 98
RIC: 1953./ 12719.

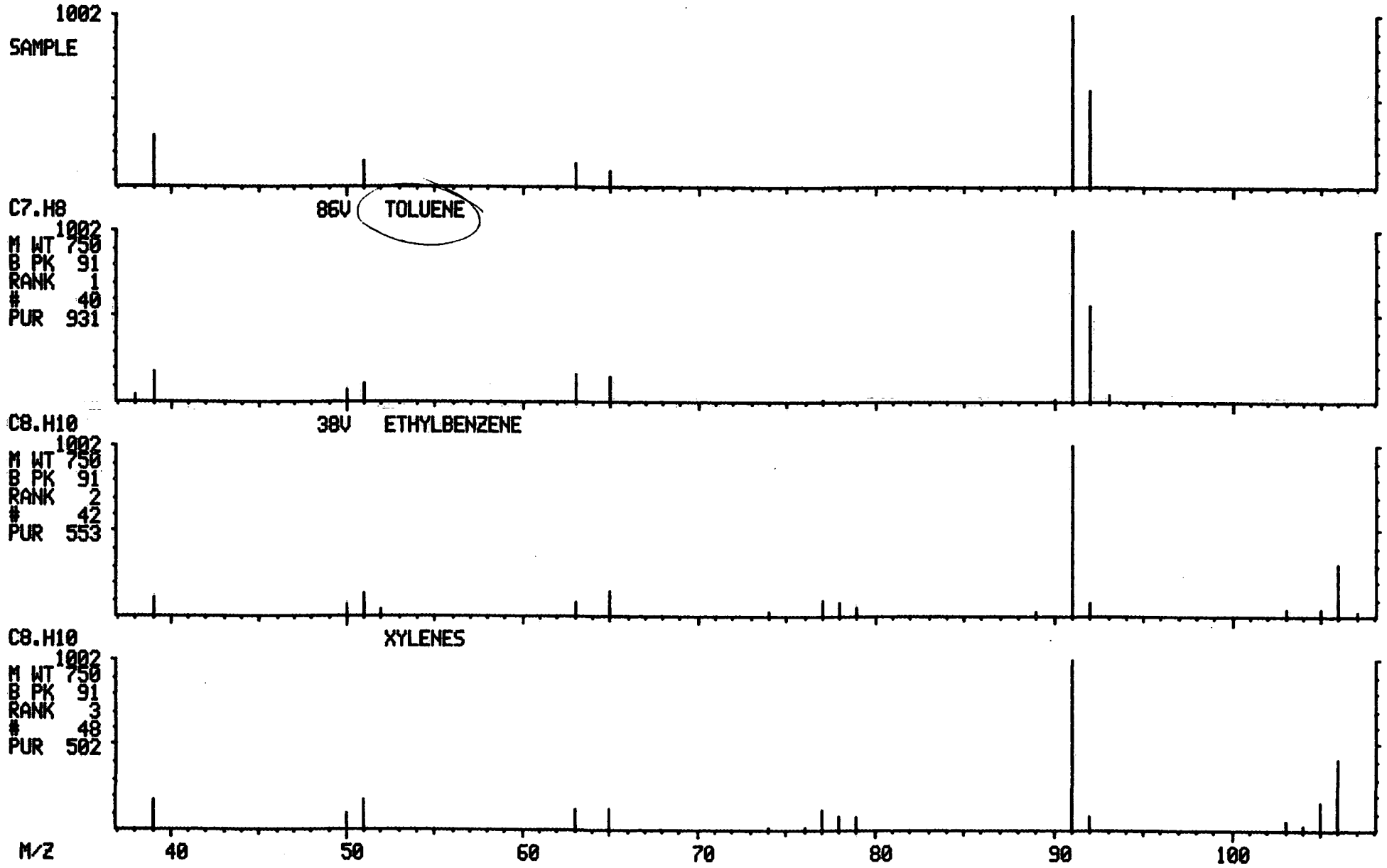


000012Z

LIBRARY SEARCH
09/25/91 21:59:00 + 19:12
SAMPLE: 9109L758-006 L.E.CARPENTER 5.0ML
CONDS.: 1050W, VO, METHOD 2
ENHANCED (S 15B 2N 0T)

DATA: W092518 # 576
CALI: W092518 # 2

BASE M/Z: 91
RIC: 1953.



000012 3

1A
VOLATILE ORGANICS ANALYSIS SHEET

0000127

CLIENT SAMPLE NO.

TRIP BLANK

Lab Name: Roy F. Weston, Inc. Work Order: 3600-04-90-0000

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 9109L758-007

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W092413

Level: (low/med) LOW

Date Received: 09/20/91

% Moisture: not dec. _____

Date Analyzed: 09/24/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	3	JB
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
110-75-8	2-chloroethylvinylether	10	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
75-69-4	Trichlorofluoromethane	5	U
1330-20-7	Xylene (total)	5	U

1E

0000125

CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

TRIP BLANK

Lab Name: Roy F. Weston, Inc. Work Order: 3600-04-90-0000

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 9109L758-007

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W092413

Level: (low/med) LOW

Date Received: 09/20/91

% Moisture: not dec. _____

Date Analyzed: 09/24/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

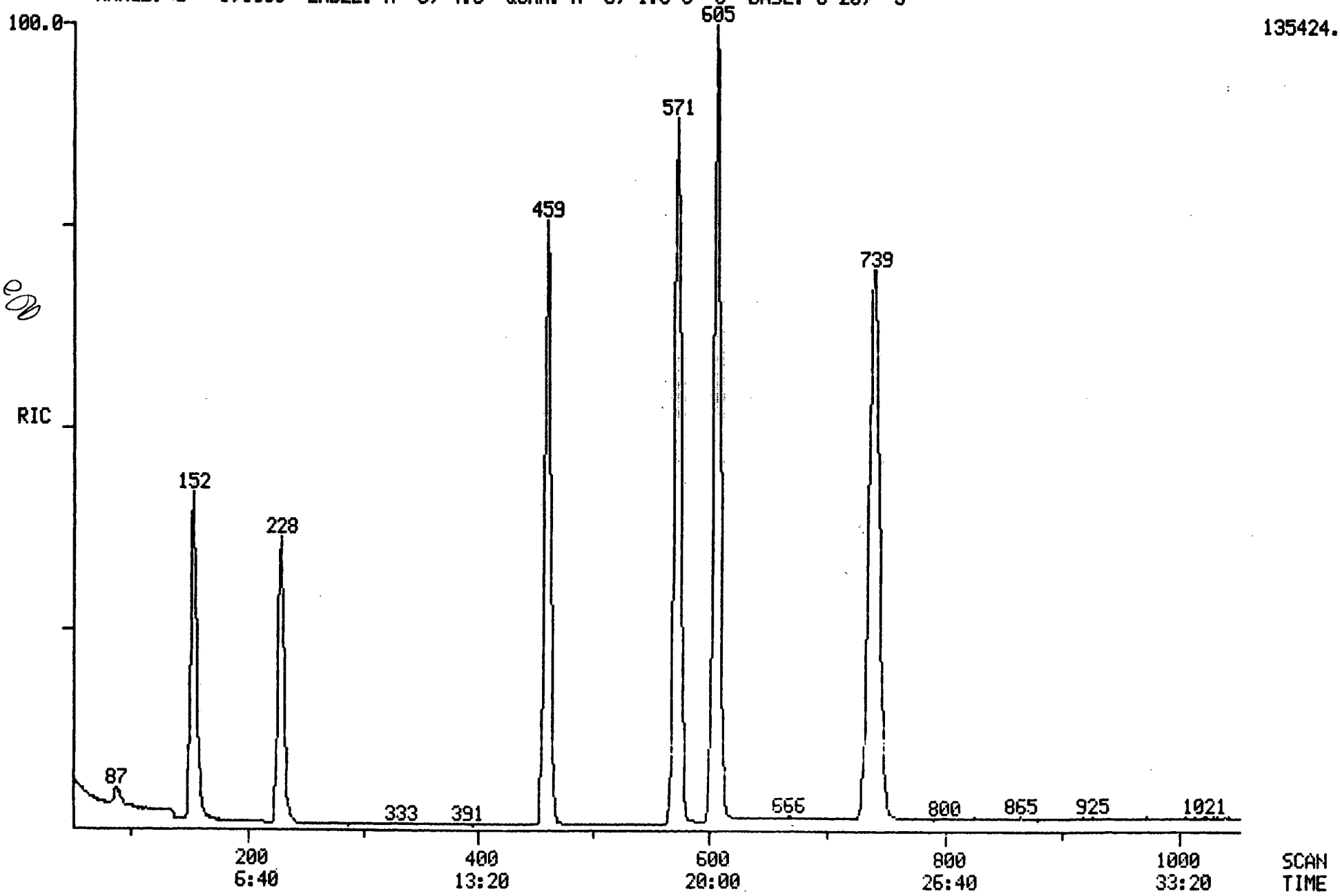
CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

RIC
03/24/91 19:05:00
SAMPLE: 9109L758-007 L.E. CARPENTER 5.0ML
CONDS.: 1050W, VO, METHOD 2
RANGE: G 1,1050 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: W092413 #1
CALI: W092413 #2

SCANS 50 TO 1050



00001226

Quantitation Report File: W092413

Data: W092413.TI
09/24/91 19:05:00
Sample: 9109L758-007 L.E. CARPENTER 5.0ML
Conds.: 1050W, VO, METHOD 2
Formula: W092401 Instrument: 1050W Weight: 0.040
Submitted by: Analyst: PSS Acct. No.: 082291

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	IS1	BROMOCHLOROMETHANE	INTERNAL STANDARD #1
2	SS1	1,2-DICHLOROETHANE D4	SURROGATE STANDARD#1
3	45V	CHLOROMETHANE	
4	46V	BROMOMETHANE	
5	88V	VINYL CHLORIDE	
6	16V	CHLOROETHANE	
7	44V	METHYLENE CHLORIDE	
8	13H	ACETONE	
9	21H	ACROLEIN	
10	15H	CARBON DISULFIDE	
11	24H	TRICHLOROFLUOROMETHANE	
12	22H	ACRYLONITRILE	
13	29V	1,1-DICHLOROETHYLENE	
14	13V	1,1-DICHLOROETHANE	
15		1,2-DICHLOROETHENE (TOTAL)	
16	23V	CHLOROFORM	
17	10V	1,2-DICHLOROETHANE	
18	14H	2-BUTANONE	
19		CYCLOHEXANE	
20	IS2	1,4-DIFLUOROBENZENE	INTERNAL STANDARD #2
21	11V	1,1,1-TRICHLOROETHANE	
22	6V	CARBON TETRACHLORIDE	
23	19H	VINYL ACETATE	
24	48V	BROMODICHLOROMETHANE	
25	32V	1,2-DICHLOROPROPANE	
26	33VC	CIS-1,3-DICHLOROPROPENE	
27		TRICHLOROETHYLENE	
28	51V	DIBROMOCHLOROMETHANE	
29	14V	1,1,2-TRICHLOROETHANE	
30	4V	BENZENE	
31	33VT	TRANS-1,3-DICHLOROPROPENE	
32		2-CHLOROETHYLVINYLETHER	
33	47V	BROMOFORM	
34	IS3	CHLOROBENZENE D5	INTERNAL STANDARD #3
35	SS2	TOLUENE D8	SURROGATE STANDARD #2
36	SS3	4-BROMOFLUOROBENZENE	SURROGATE STANDARD #3
37	17H	4-METHYL-2-PENTANONE	
38	16H	2-HEXANONE	
39	85V	TETRACHLOROETHYLENE	
40	15V	1,1,2,2-TETRACHLOROETHANE	
41	86V	TOLUENE	
42	7V	CHLOROBENZENE	
43	38V	ETHYLBENZENE	
44	18H	STYRENE	
45		XYLENES (TOTAL)	
46	26B	1,3-DICHLOROBENZENE	
47	25B	1,2-DICHLOROBENZENE	

No	Name
48	27B 1,4-DICHLOROBENZENE
49	XYLENES
50	METHYL-T-BUTYLETHER

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	152	5:04	1	1.000	A BB	39475.	50.000 UG/L	15.92
2	65	228	7:36	1	1.500	A BB	107633.	52.713 UG/L	16.78
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	84	88	2:56	1	0.579	A BB	3718.	3.499 UG/L	1.11
8	43	99	3:18	1	0.651	A BB	1217.	4.370 UG/L	1.39
9	NOT FOUND								
10	NOT FOUND								
11	101	135	4:30	1	0.888	A BB	580.	0.217 UG/L	0.07
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
17	NOT FOUND								
18	NOT FOUND								
19	NOT FOUND								
20	114	459	15:18	20	1.000	A BB	230687.	50.000 UG/L	15.92
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	NOT FOUND								
26	NOT FOUND								
27	NOT FOUND								
28	NOT FOUND								
29	NOT FOUND								
30	NOT FOUND								
31	NOT FOUND								
32	NOT FOUND								
33	NOT FOUND								
34	117	605	20:10	34	1.000	A BB	222092.	50.000 UG/L	15.92
35	98	571	19:02	34	0.944	A BB	246100.	50.783 UG/L	16.17
36	95	739	24:38	34	1.221	A BB	189805.	52.628 UG/L	16.75
37	NOT FOUND								
38	NOT FOUND								
39	NOT FOUND								
40	NOT FOUND								
41	NOT FOUND								
42	NOT FOUND								
43	NOT FOUND								
44	NOT FOUND								
45	NOT FOUND								
46	NOT FOUND								
47	NOT FOUND								
48	NOT FOUND								
49	NOT FOUND								
50	NOT FOUND								

155
1/21

Quantitation Report File: W092413

Data: W092413.TI
09/24/91 19:05:00
Sample: 9109L758-007 L.E. CARPENTER 5.0ML
Conds.: 1050W, VO, METHOD 2
Formula: W092401 Instrument: 1050W Weight: 0.040
Submitted by: Analyst: PSS Acct. No.: 082291

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

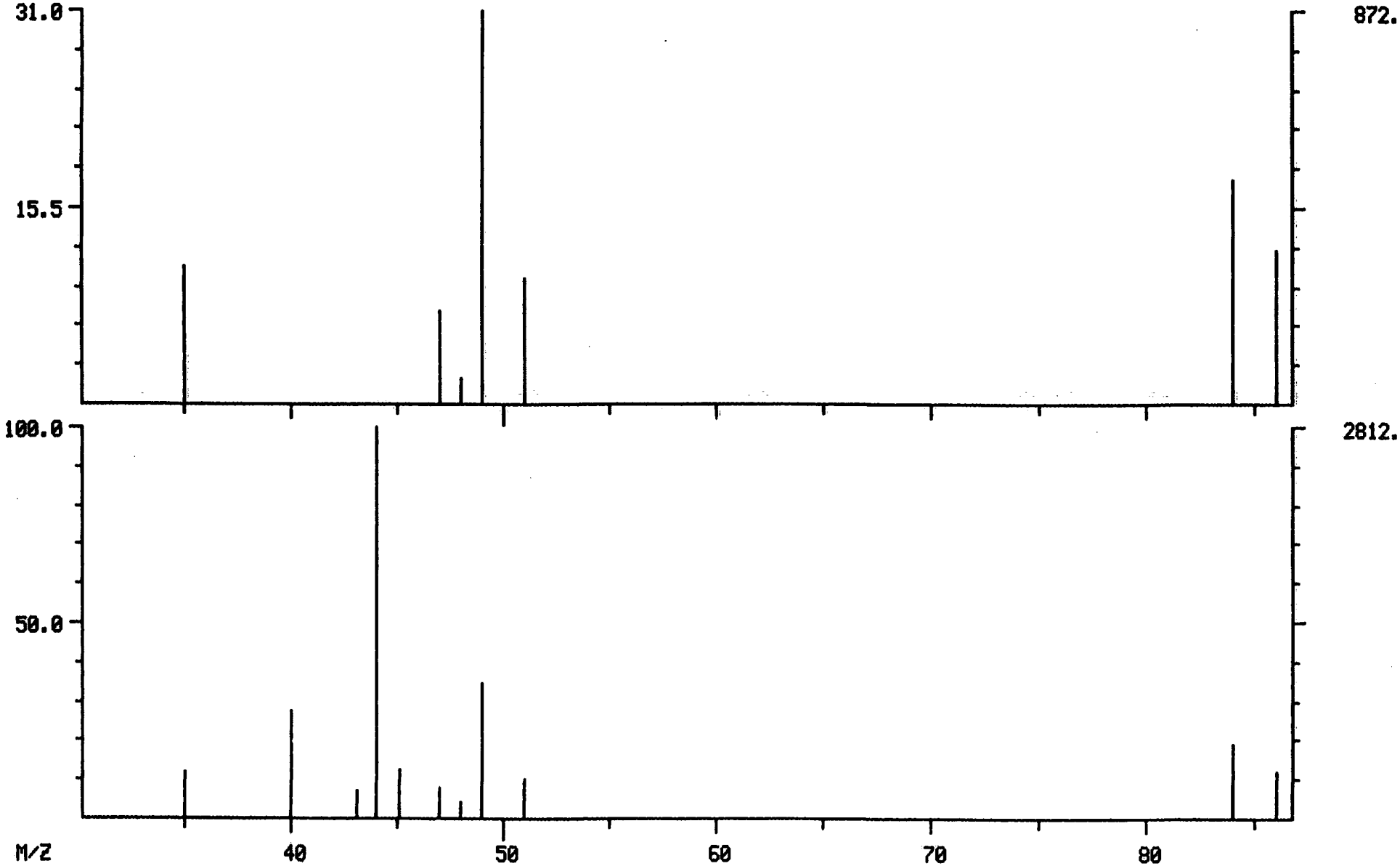
No	Name
51	DIETHYLETHER
52	T-BUTYL ALCOHOL

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	NOT FOUND								
52	NOT FOUND								

DUAL MASS SPECTRUM
09/24/91 19:05:00 + 2:56
SAMPLE: 9109L758-007 L.E. CARPENTER 5.0ML
CONDS.: 1050W, VO, METHOD 2
GC TEMP: 75 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: W092413 #88
CALI: W092413 #2

BASE M/Z: 49/ 44
RIC: 2567./ 6903.

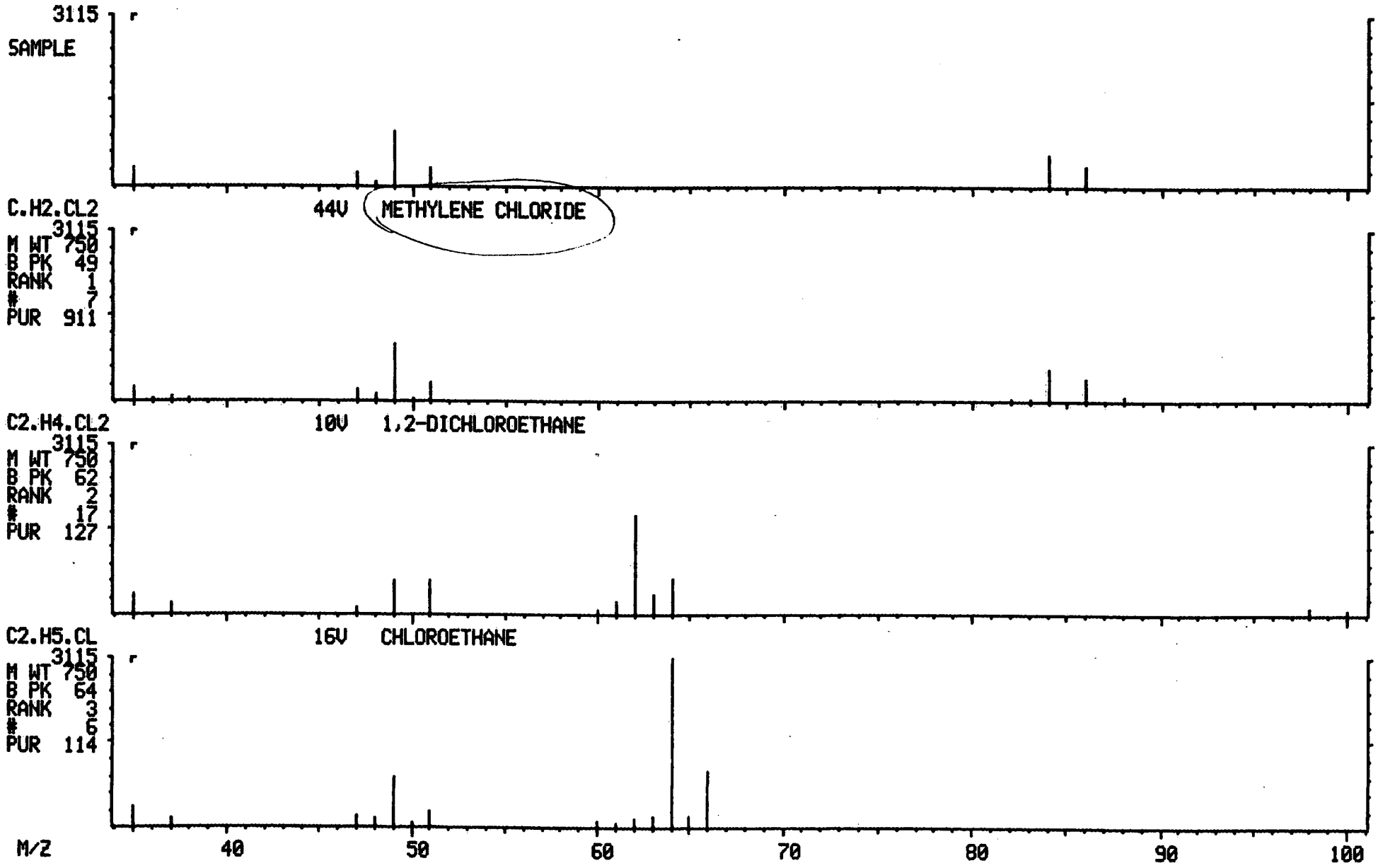


0000130

LIBRARY SEARCH
09/24/91 19:05:00 + 2:56
SAMPLE: 9109L758-007 L.E. CARPENTER 5.0ML
CONDS.: 1050W, VO, METHOD 2
ENHANCED (S 15B 2N 0T)

DATA: W092413 # 88
CALI: W092413 # 2

BASE M/Z: 49
RIC: 2567.



0000131

WESTON

IV. Standards Data Package

A. Initial Calibration Data:

1. Form 6
2. Reconstructed Ion Chromatogram(s) and Quantitation Report(s)

B. Continuing Calibration Data

1. Form 7
2. Reconstructed Ion Chromatogram(s) and Quantitation Report(s)

C. Internal Standard Summary (Form 8)

6A

VOLATILE ORGANICS INTITIAL CALIBRATION DATA

Lab Name: Roy F. Weston, Inc. Contract: 3600-04-90-0000

Case No.: WSI-LE CARPENTER RFW Lot: 9109L758

Instrument ID: HP-MSD K Calibration Date(s): 09/13/91 09/13/91

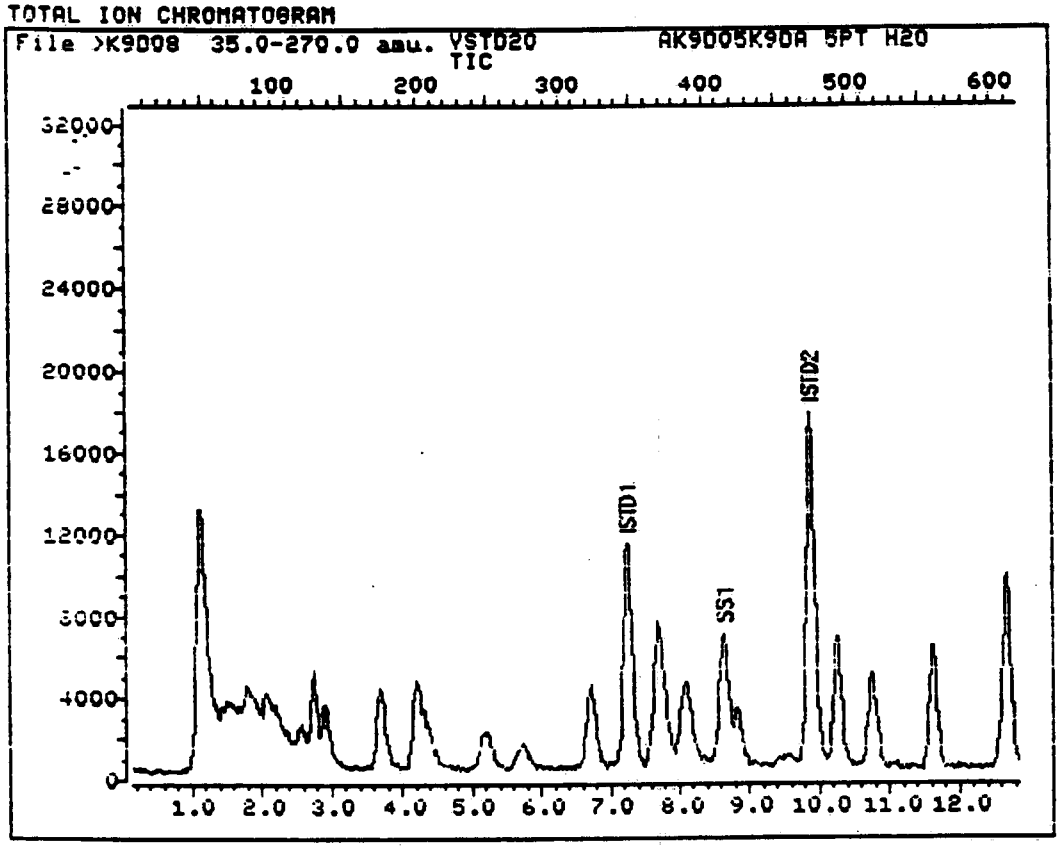
Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

Min RRF for SPCC(#) = 0.300 (0.250 for Bromoform) Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF20 = AK9D08 RRF50 = AK9D06
RRF100= AK9D09 RRF150= AK9D10 RRF200= AK9D11

COMPOUND		RRF20	RRF50	RRF100	RRF150	RRF200	$\overline{RRF}$	% RSD
Chloromethane	#	0.598	0.674	0.554	0.557	0.574	0.591	8.3# ✓
Bromomethane		1.005	1.059	0.958	0.927	0.912	0.972	6.2
Vinyl Chloride	*	0.778	0.821	0.780	0.748	0.742	0.774	4.0* ✓
Chloroethane		0.421	0.507	0.446	0.424	0.424	0.444	8.2
Methylene Chloride		1.348	1.085	1.029	0.959	0.941	1.073	15.3
1,1-Dichloroethene	*	0.999	0.983	0.841	0.758	0.599	0.836	19.9* ✓
1,1-Dichloroethane	#	2.016	2.014	1.883	1.876	1.878	1.933	3.9# ✓
1,2-Dichloroethene (total)		1.041	1.097	1.014	0.981	1.003	1.027	4.3
Chloroform	*	2.638	2.572	2.418	2.305	2.345	2.456	5.9* ✓
1,2-Dichloroethane		0.446	0.437	0.420	0.402	0.412	0.424	4.3
1,1,1-Trichloroethane		2.323	2.332	2.161	2.064	2.087	2.193	5.8
Carbon Tetrachloride		2.570	2.413	2.388	2.310	2.341	2.404	4.2
Bromodichloromethane		0.774	0.730	0.719	0.697	0.697	0.723	4.4
1,2-Dichloropropane	*	0.320	0.302	0.299	0.295	0.293	0.302	3.6* ✓
cis-1,3-Dichloropropene		0.528	0.524	0.509	0.509	0.485	0.511	3.3
Trichloroethene		0.417	0.377	0.390	0.372	0.384	0.388	4.5
Dibromochloromethane		0.816	0.758	0.744	0.750	0.720	0.757	4.7
1,1,2-Trichloroethane		0.356	0.311	0.306	0.300	0.290	0.312	8.1
Benzene		0.687	0.641	0.616	0.600	0.599	0.629	5.8
Trans-1,3-Dichloropropene		0.538	0.489	0.525	0.509	0.496	0.512	3.9
2-chloroethylvinylether		0.172	0.176	0.173	0.165	0.170	0.171	2.4
Bromoform	#	0.789	0.711	0.720	0.730	0.698	0.730	4.8# ✓
Tetrachloroethene		0.513	0.485	0.481	0.464	0.443	0.477	5.5
1,1,2,2-Tetrachloroethane	#	0.576	0.544	0.526	0.532	0.509	0.537	4.6# ✓
Toluene	*	0.514	0.494	0.485	0.487	0.472	0.490	3.1* ✓
Chlorobenzene	#	0.749	0.750	0.756	0.749	0.731	0.747	1.3# ✓
Ethylbenzene	*	0.338	0.325	0.322	0.319	0.321	0.325	2.3* ✓
1,2-Dichlorobenzene		0.937	0.826	0.842	0.834	0.800	0.848	6.2
1,3-Dichlorobenzene		0.935	0.865	0.879	0.873	0.843	0.879	3.9
1,4-Dichlorobenzene		1.00	0.890	0.904	0.888	0.854	0.907	6.1
Acrolein		0.083	0.094	0.067	0.069	0.069	0.076	15.2
Acrylonitrile		0.124	0.124	0.154	0.147	0.162	0.142	12.2
Trichlorofluoromethane		2.612	2.282	1.924	1.815	1.828	2.092	16.6
Xylene (total)		0.425	0.399	0.388	0.386	0.375	0.394	4.9
Toluene-d8		1.036	1.048	1.022	0.994	0.969	1.014	3.1
Bromofluorobenzene		1.049	1.084	1.030	0.995	0.962	1.024	4.6
1,2-Dichloroethane-d4		0.504	0.481	0.471	0.445	0.447	0.470	5.2

TOTAL ION CHROMATOGRAM



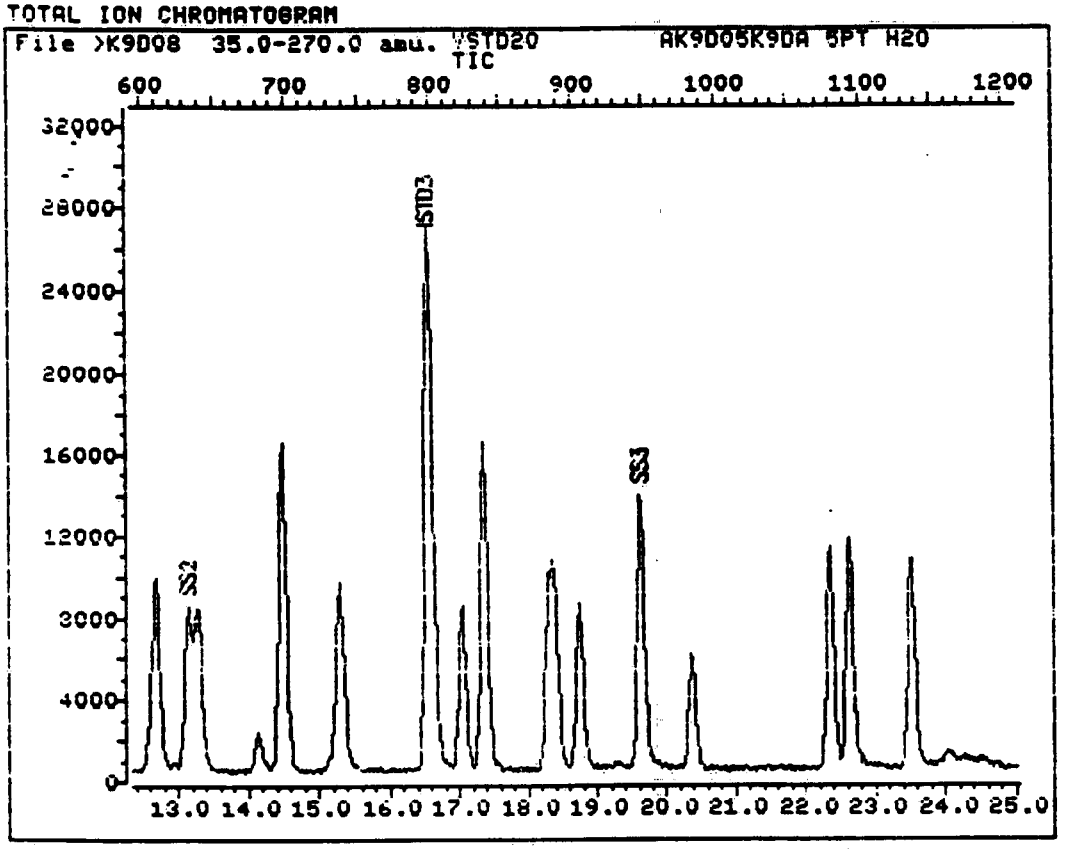
Data File: >K9D08::D2 Quant Output File: ^K9D08::QQ
Name: VSTD20 AK9D05
Misc: K9DA 5PT H2O #HP-MSD K RSL

Id File: I_K9DA::QQ
Title: VOLATILES BY CAPILLARY (DB-624)
Last Calibration: 910812 19:06

Operator ID: RSL
Quant Time: 910913 15:36
Injected at: 910913 15:10

TIC page 1 of 2

TOTAL ION CHROMATOGRAM



Data File: >K9D08::D2 Quant Output File: ^K9D08::QQ
Name: VSTD20 AK9D05
Misc: K9DA 5PT H2O #HP-MSD K RSL

Id File: I_K9DA::QQ
Title: VOLATILES BY CAPILLARY (DB-624)
Last Calibration: 910812 19:06

Operator ID: RSL
Quant Time: 910913 15:36
Injected at: 910913 15:10

TIC page 2 of 2

QUANT REPORT

Operator ID: RSL Quant Rev: 6 Quant Time: 910913 15:36
Output File: ^K9D08::QQ Injected at: 910913 15:10
Data File: >K9D08::D2 Dilution Factor: 1.00000
Name: VSTD20 AK9D05
Misc: K9DA 5PT H2O #HP-MSD K RSL

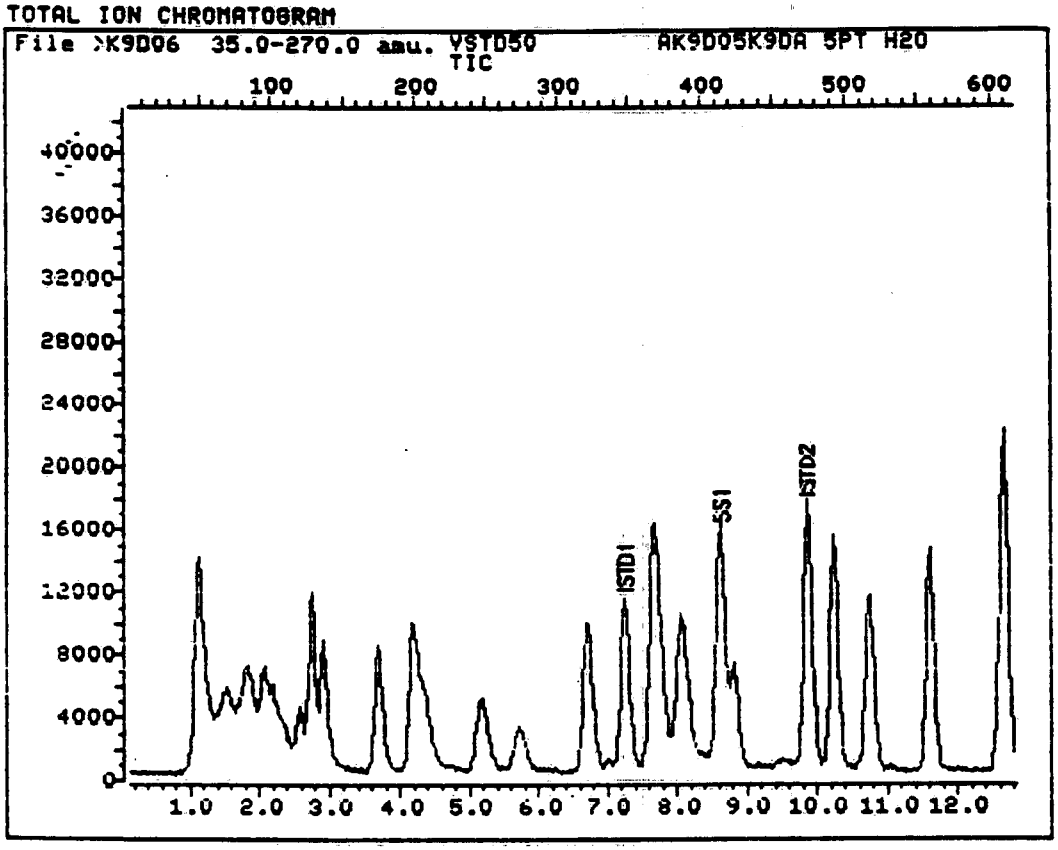
ID File: I_K9DA::QQ
Title: VOLATILES BY CAPILLARY (DB-624)
Last Calibration: 910812 19:06

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE	7.27	128.0	14405	50.00	ug/L	7
2)	CHLOROMETHANE	1.46	50.0	3446	34.19	ug/L	8
3)	VINYL CHLORIDE	1.56	62.0	4484	25.64	ug/L	7
4)	BROMOMETHANE	1.83	94.0	5793	22.42	ug/L	9
5)	CHLOROETHANE	1.87	64.0	2427	23.42	ug/L	8
6)	TRICHLOROFLUOROMETHANE	2.08	101.0	15051M	20.40	ug/L	9
7)	DIETHYLETHER	2.59	59.0	1981	19.33	ug/L	9
8)	1,1-DICHLOROETHYLENE	2.76	96.0	5754	23.95	ug/L	7
9)	ACROLEIN	2.76	56.0	479M	40.18	ug/L	
10)	CARBON DISULFIDE	2.92	76.0	15537	25.19	ug/L	8
11)	ACETONE	3.02	43.0	1715	42.81	ug/L	10
12)	METHYLENE CHLORIDE	3.68	84.0	7767	27.09	ug/L	8
13)	1,2-DICHLOROETHENE (TOTAL)	4.18	96.0	5997	20.13	ug/L	9
14)	ACRYLONITRILE	4.34	53.0	716M	24.62	ug/L	
15)	T-BUTYL ALCOHOL	4.67	59.0	226M	12.57	ug/L	
16)	METHYL T-BUTYLETHER	4.36	73.0	11039	19.30	ug/L	9
17)	1,1-DICHLOROETHANE	5.23	63.0	11617	22.27	ug/L	9
18)	VINYL ACETATE	5.74	43.0	11901	31.81	ug/L	6
19)	1,2-DICHLOROETHENE (CIS)	6.75	96.0	8904	23.58	ug/L	9
20)	2-BUTANONE	7.02	72.0	179M	12.03	ug/L	
21)	CHLOROFORM	7.70	83.0	15202	20.29	ug/L	9
22)	1,1,1-TRICHLOROETHANE	7.74	97.0	13386	18.22	ug/L	6
23)	CARBON TETRACHLORIDE	8.11	117.0	14808	18.11	ug/L	7
24)	*1,4-DIFLUOROBENZENE	9.88	114.0	54444	50.00	ug/L	6
25)	BENZENE	8.63	78.0	14958	22.93	ug/L	8
26)	1,2-DICHLOROETHANE D4	8.65	65.0	10972	21.24	ug/L	9
27)	1,2-DICHLOROETHANE	8.83	62.0	9721	19.04	ug/L	9
28)	TRICHLOROETHYLENE	10.27	130.0	9081	20.09	ug/L	9
29)	2-CHLOROETHYLVINYLETHER	12.60	63.0	3745	21.65	ug/L	7
30)	1,2-DICHLOROPROPANE	10.75	63.0	6961	26.03	ug/L	9
31)	BROMODICHLOROMETHANE	11.61	83.0	16846	19.64	ug/L	8
32)	*CHLOROBENZENE-D5	16.55	117.0	52266	50.00	ug/L	9
33)	TRANS-1,3-DICHLOROPROPENE	14.12	75.0	4273	6.90	ug/L	9
34)	TOLUENE D8	13.14	98.0	21654	19.74	ug/L	9
35)	TOLUENE	13.28	92.0	10750	19.94	ug/L	9
36)	4-METHYL-2-PENTANONE	13.24	43.0	5487^	31.39	ug/L	5
37)	CIS-1,3-DICHLOROPROPENE	12.68	75.0	17889	31.83	ug/L	9
38)	TETRACHLOROETHYLENE	14.47	164.0	10731	21.11	ug/L	9
39)	1,1,2-TRICHLOROETHANE	14.49	97.0	7432	21.41	ug/L	8
40)	DIBROMOCHLOROMETHANE	15.30	129.0	17050	18.12	ug/L	9
41)	2-HEXANONE	15.32	43.0	4568	37.99	ug/L	9
42)	CHLOROBENZENE	16.64	112.0	15661	18.14	ug/L	7
43)	ETHYLBENZENE	17.05	106.0	7061	18.79	ug/L	9

	Compound	R.T.	Q ion	Area	Conc	Units
44)	STYRENE	18.41	104.0	15844	20.65	ug/L
45)	XYLENE	17.36	106.0	17599	41.37	ug/L
46)	XYLENES (TOTAL)	18.31	106.0	8894^	19.53	ug/L
47)	BROMOFORM	18.74	173.0	16493	21.74	ug/L
48)	4-BROMOFLUOROBENZENE	19.62	95.0	21925	22.73	ug/L
49)	1,1,2,2-TETRACHLOROETHANE	20.37	83.0	12039	20.56	ug/L
50)	1,3-DICHLOROBENZENE	22.34	146.0	19552	18.82	ug/L
51)	1,4-DICHLOROBENZENE	22.63	146.0	20896	19.82	ug/L
52)	1,2-DICHLOROBENZENE	23.50	146.0	19596	19.87	ug/L

* Compound is ISTD

TOTAL ION CHROMATOGRAM



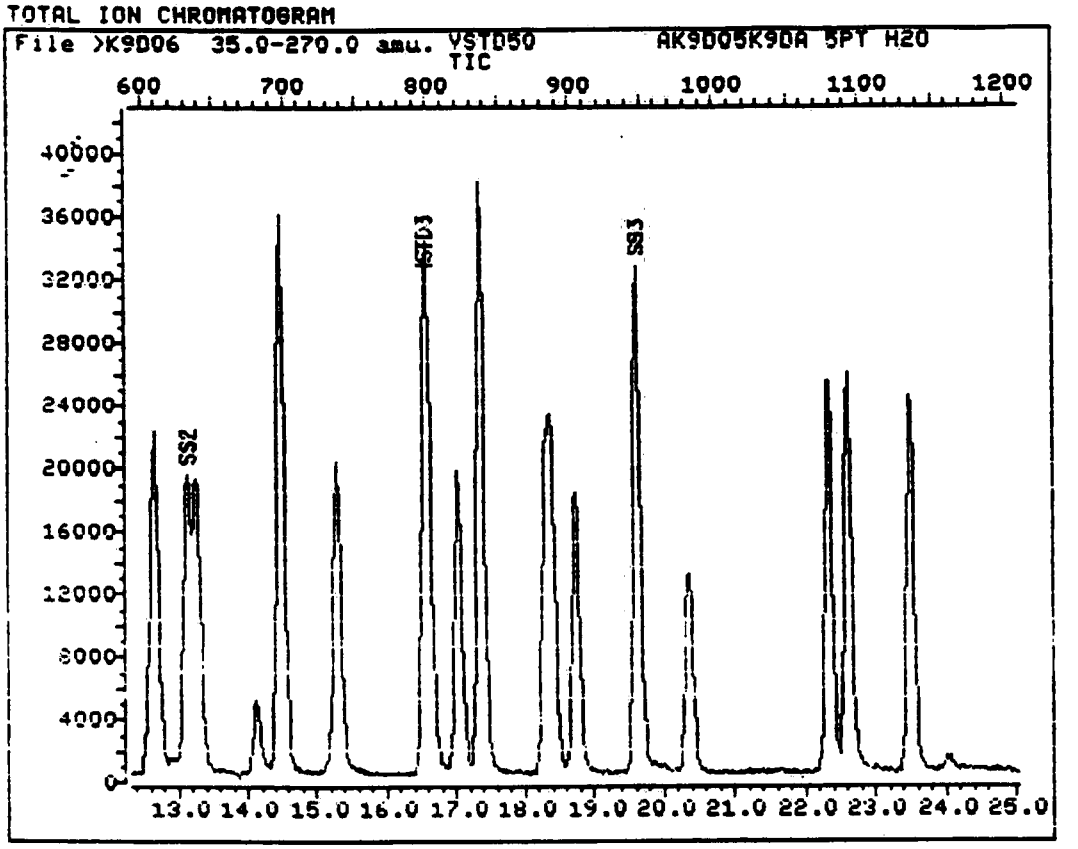
Data File: >K9D06::D2 Quant Output File: ^K9D06::QQ
Name: VSTD50 AK9D05
Misc: K9DA 5PT H2O #HP-MSD K RSL

Id File: I_K9DA::QQ
Title: VOLATILES BY CAPILLARY (DB-624)
Last Calibration: 910812 19:06

Operator ID: RSL
Quant Time: 910913 14:52
Injected at: 910913 13:44

TIC page 1 of 2

TOTAL ION CHROMATOGRAM



Data File: >K9D06::D2 Quant Output File: ^K9D06::QQ
Name: VSTD50 AK9D05
Misc: K9DA 5PT H2O #HP-MSD K RSL

Id File: I_K9DA::QQ
Title: VOLATILES BY CAPILLARY (DB-624)
Last Calibration: 910812 19:06

Operator ID: RSL
Quant Time: 910913 14:52
Injected at: 910913 13:44

TIC page 2 of 2

QUANT REPORT

Operator ID: RSL
Output File: ^K9D06::QQ
Data File: >K9D06::D2
Name: VSTD50 AK9D05
Misc: K9DA 5PT H2O

Quant Rev: 6
Quant Time: 910913 14:52
Injected at: 910913 13:44
Dilution Factor: 1.00000
#HP-MSD K RSL

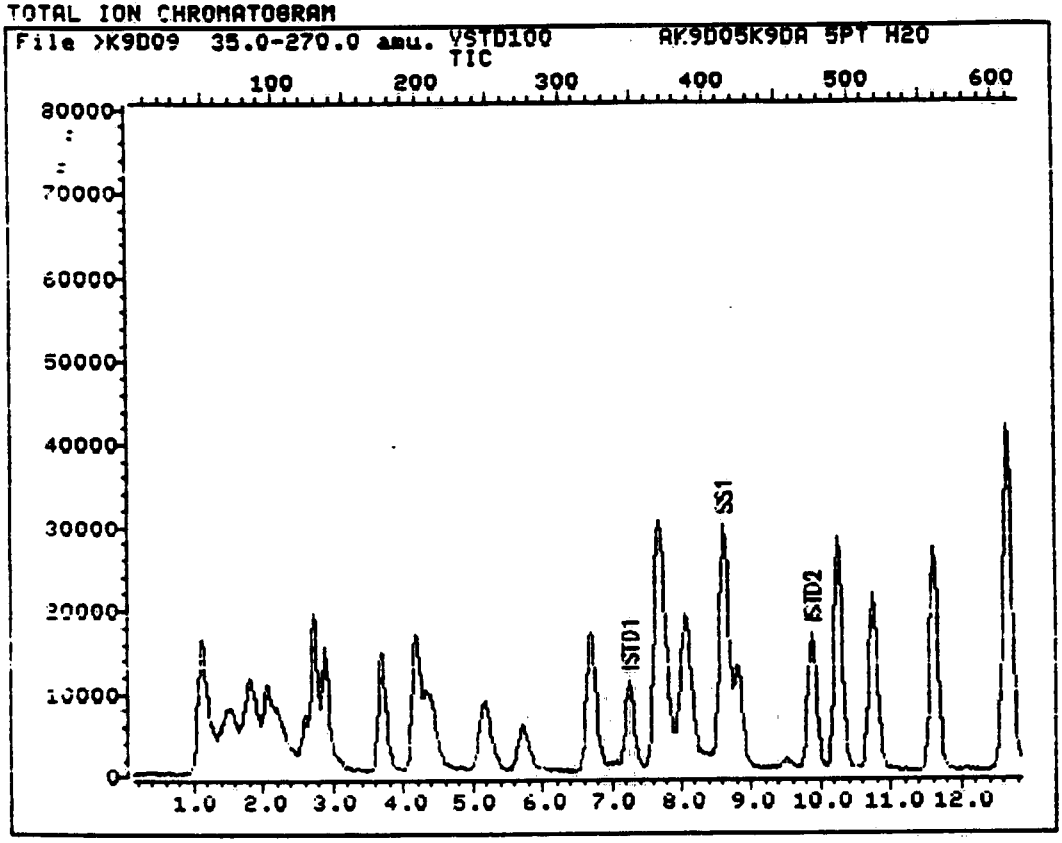
ID File: I_K9DA::QQ
Title: VOLATILES BY CAPILLARY (DB-624)
Last Calibration: 910812 19:06

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE	7.27	128.0	13965	50.00	ug/L	7
2)	CHLOROMETHANE	1.48	50.0	9407	96.27	ug/L	9
3)	VINYL CHLORIDE	1.54	62.0	11460	67.60	ug/L	9
4)	BROMOMETHANE	1.81	94.0	14789	59.05	ug/L	9
5)	CHLOROETHANE	1.87	64.0	7085	70.53	ug/L	9
6)	TRICHLOROFLUOROMETHANE	2.08	101.0	31872M	44.56	ug/L	9
7)	DIETHYLETHER	2.57	59.0	5690	57.27	ug/L	9
8)	1,1-DICHLOROETHYLENE	2.74	96.0	13730	58.96	ug/L	9
9)	ACROLEIN	2.76	56.0	1311	113.43	ug/L	9
10)	CARBON DISULFIDE	2.90	76.0	38439	64.29	ug/L	9
11)	ACETONE	3.09	43.0	2952	76.01	ug/L	10
12)	METHYLENE CHLORIDE	3.68	84.0	15158	54.54	ug/L	8
13)	1,2-DICHLOROETHENE (TOTAL)	4.18	96.0	15322	53.04	ug/L	8
14)	ACRYLONITRILE	4.32	53.0	1724M	61.15	ug/L	9
15)	T-BUTYL ALCOHOL	4.69	59.0	690M	39.59	ug/L	
16)	METHYL T-BUTYLETHER	4.34	73.0	25921	46.76	ug/L	9
17)	1,1-DICHLOROETHANE	5.19	63.0	28126	55.62	ug/L	9
18)	VINYL ACETATE	5.70	43.0	27820	76.71	ug/L	7
19)	1,2-DICHLOROETHENE (CIS)	6.73	96.0	20567	56.18	ug/L	9
20)	2-BUTANONE	6.98	72.0	645M	44.71	ug/L	
21)	CHLOROFORM	7.68	83.0	35914	49.44	ug/L	8
22)	1,1,1-TRICHLOROETHANE	7.74	97.0	32562	45.72	ug/L	8
23)	CARBON TETRACHLORIDE	8.07	117.0	33694M	42.51	ug/L	9
24)	*1,4-DIFLUOROBENZENE	9.86	114.0	54479	50.00	ug/L	7
25)	BENZENE	8.63	78.0	34939	53.53	ug/L	8
26)	1,2-DICHLOROETHANE D4	8.65	65.0	26194	50.67	ug/L	9
27)	1,2-DICHLOROETHANE	8.81	62.0	23821	46.62	ug/L	9
28)	TRICHLOROETHYLENE	10.26	130.0	20535	45.41	ug/L	9
29)	2-CHLOROETHYLVINYLETHER	12.60	63.0	9588	55.40	ug/L	7
30)	1,2-DICHLOROPROPANE	10.75	63.0	16467	61.55	ug/L	9
31)	BROMODICHLOROMETHANE	11.61	83.0	39776	46.33	ug/L	9
32)	*CHLOROBENZENE-D5	16.56	117.0	50797	50.00	ug/L	9
33)	TRANS-1,3-DICHLOROPROPENE	14.13	75.0	9447	15.71	ug/L	9
34)	TOLUENE D8	13.14	98.0	53217	49.92	ug/L	9
35)	TOLUENE	13.28	92.0	25083	47.87	ug/L	9
36)	4-METHYL-2-PENTANONE	13.26	43.0	13331^	78.47	ug/L	8
37)	CIS-1,3-DICHLOROPROPENE	12.67	75.0	43101	78.91	ug/L	9
38)	TETRACHLOROETHYLENE	14.48	164.0	24616	49.82	ug/L	9
39)	1,1,2-TRICHLOROETHANE	14.48	97.0	15779	46.78	ug/L	9
40)	DIBROMOCHLOROMETHANE	15.28	129.0	38481	42.07	ug/L	8
41)	2-HEXANONE	15.30	43.0	9106	77.92	ug/L	7
42)	CHLOROBENZENE	16.60	112.0	38086	45.40	ug/L	
43)	ETHYLBENZENE	17.03	106.0	16531	45.26	ug/L	9

	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	STYRENE	18.39	104.0	35104	47.07	ug/L	8
45)	XYLENE	17.36	106.0	41180	99.61	ug/L	9
46)	XYLENES (TOTAL)	18.29	106.0	20250	45.76	ug/L	9
47)	BROMOFORM	18.74	173.0	36116	48.97	ug/L	9
48)	4-BROMOFLUOROBENZENE	19.63	95.0	55056	58.73	ug/L	8
49)	1,1,2,2-TETRACHLOROETHANE	20.37	83.0	27615	48.52	ug/L	9
50)	1,3-DICHLOROBENZENE	22.33	146.0	43940	43.53	ug/L	9
51)	1,4-DICHLOROBENZENE	22.62	146.0	45215	44.13	ug/L	9
52)	1,2-DICHLOROBENZENE	23.50	146.0	41957	43.77	ug/L	8

* Compound is ISTD

TOTAL ION CHROMATOGRAM



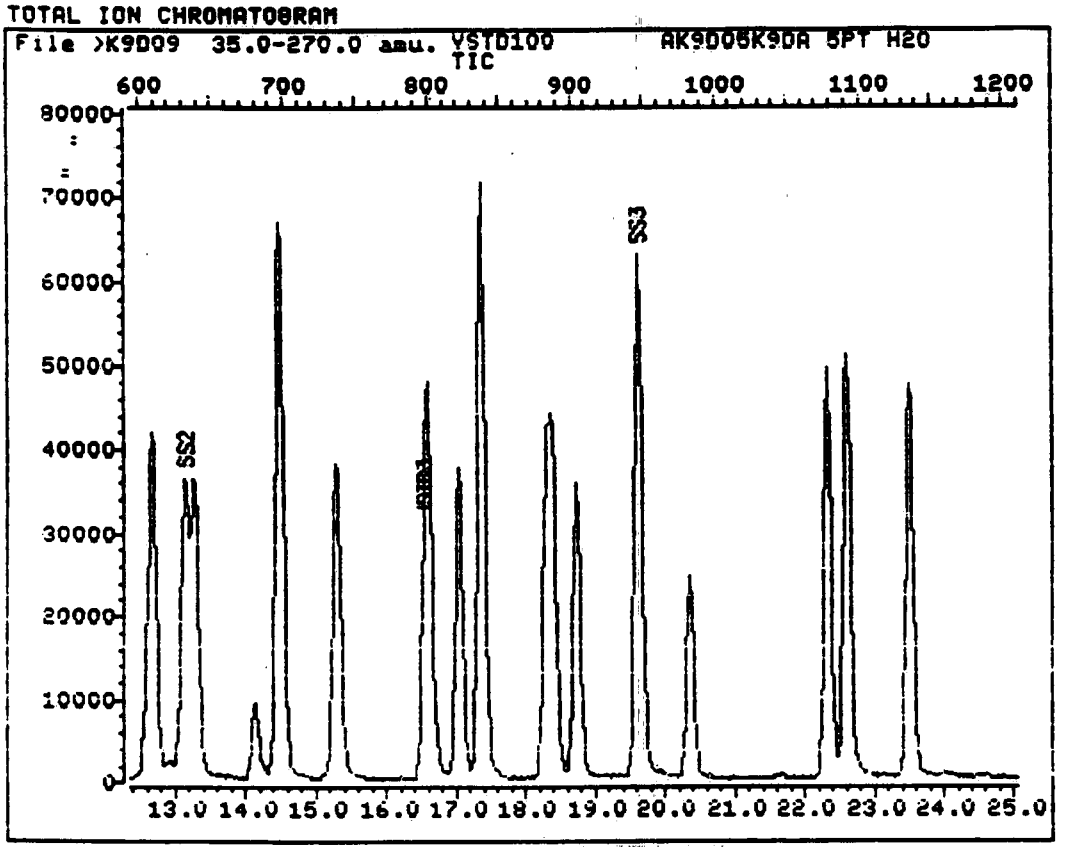
Data File: >K9D09::D2 Quant Output File: ^K9D09::QQ
Name: VSTD100 AK9D05
Misc: K9DA 5PT H2O #HP-MSD K RSL

Id File: I_K9DA::QQ
Title: VOLATILES BY CAPILLARY (DB-624)
Last Calibration: 910812 19:06

Operator ID: RSL
Quant Time: 910913 16:13
Injected at: 910913 15:47

TIC page 1 of 2

TOTAL ION CHROMATOGRAM



Data File: >K9D09::D2 Quant Output File: ^K9D09::QQ
Name: VSTD100 AK9D05
Misc: K9DA 5PT H2O #HP-MSD K RSL

Id File: I_K9DA::QQ
Title: VOLATILES BY CAPILLARY (DB-624)
Last Calibration: 910812 19:06

Operator ID: RSL
Quant Time: 910913 16:13
Injected at: 910913 15:47

TIC page 2 of 2

QUANT REPORT

Operator ID: RSL
Output File: ^K9D09::QQ
Data File: >K9D09::D2
Name: VSTD100 AK9D05
Misc: K9DA 5PT H2O

Quant Rev: 6
Quant Time: 910913 16:13
Injected at: 910913 15:47
Dilution Factor: 1.00000

#HP-MSD K RSL

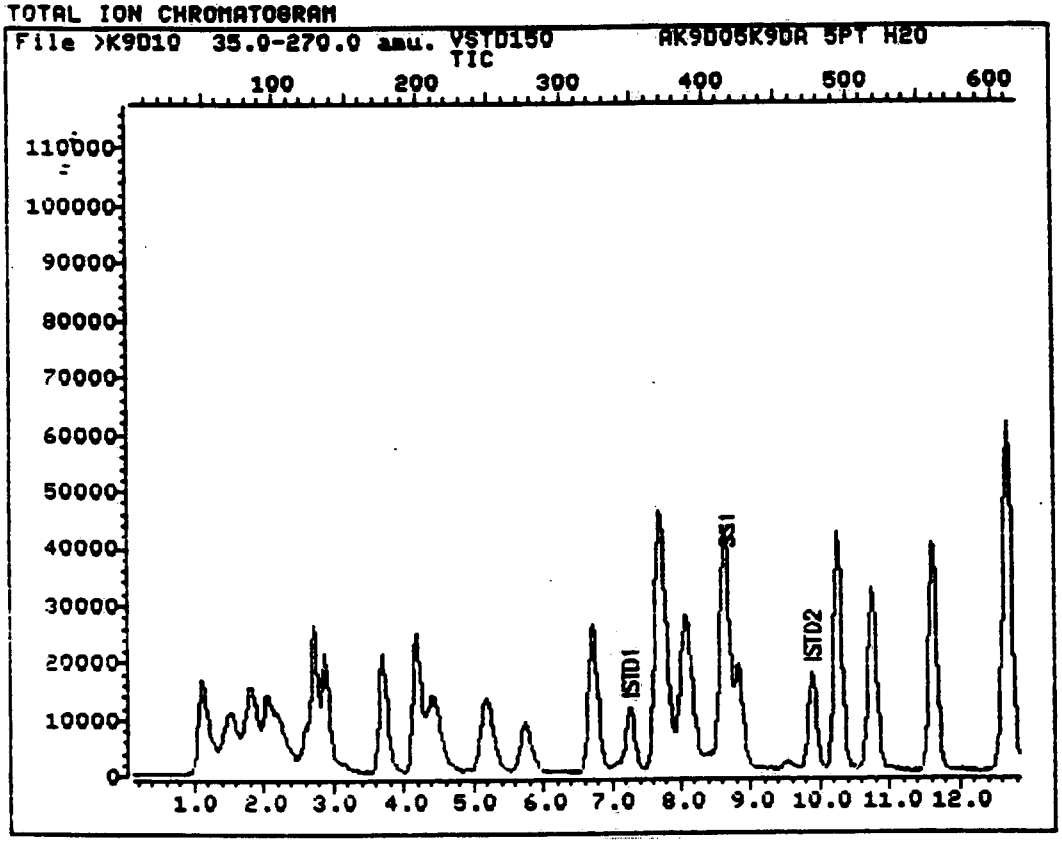
ID File: I_K9DA::QQ
Title: VOLATILES BY CAPILLARY (DB-624)
Last Calibration: 910812 19:06

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE	7.27	128.0	13943	50.00	ug/L	9
2)	CHLOROMETHANE	1.46	50.0	15454	158.40	ug/L	9
3)	VINYL CHLORIDE	1.56	62.0	21743	128.47	ug/L	8
4)	BROMOMETHANE	1.81	94.0	26726	106.89	ug/L	9
5)	CHLOROETHANE	1.85	64.0	12428	123.92	ug/L	9
6)	TRICHLOROFLUOROMETHANE	2.08	101.0	53665M	75.14	ug/L	9
7)	DIETHYLETHER	2.61	59.0	12252	123.51	ug/L	8
8)	1,1-DICHLOROETHYLENE	2.74	96.0	23464	100.92	ug/L	9
9)	ACROLEIN	2.78	56.0	1878	162.74	ug/L	7
10)	CARBON DISULFIDE	2.90	76.0	69133	115.80	ug/L	9
11)	ACETONE	3.11	43.0	4759M	122.73	ug/L	10
12)	METHYLENE CHLORIDE	3.68	84.0	28703	103.44	ug/L	8
13)	1,2-DICHLOROETHENE (TOTAL)	4.20	96.0	28287	98.08	ug/L	9
14)	ACRYLONITRILE	4.36	53.0	4284M	152.20	ug/L	9
15)	T-BUTYL ALCOHOL	4.88	59.0	1671M	96.02	ug/L	9
16)	METHYL T-BUTYLETHER	4.38	73.0	48966	88.46	ug/L	9
17)	1,1-DICHLOROETHANE	5.19	63.0	52513	104.01	ug/L	9
18)	VINYL ACETATE	5.72	43.0	51138	141.23	ug/L	7
19)	1,2-DICHLOROETHENE (CIS)	6.71	96.0	36464	99.77	ug/L	9
20)	2-BUTANONE	7.08	72.0	1074M	74.57	ug/L	9
21)	CHLOROFORM	7.68	83.0	67442	93.00	ug/L	9
22)	1,1,1-TRICHLOROETHANE	7.74	97.0	60251	84.73	ug/L	7
23)	CARBON TETRACHLORIDE	8.07	117.0	66591	84.15	ug/L	8
24)	*1,4-DIFLUOROBENZENE	9.89	114.0	53670	50.00	ug/L	6
25)	BENZENE	8.61	78.0	66173	102.91	ug/L	7
26)	1,2-DICHLOROETHANE D4	8.63	65.0	50556	99.27	ug/L	9
27)	1,2-DICHLOROETHANE	8.81	62.0	45084	89.56	ug/L	9
28)	TRICHLOROETHYLENE	10.24	130.0	41863	93.97	ug/L	9
29)	2-CHLOROETHYLVINYLETHER	12.60	63.0	18550	108.79	ug/L	7
30)	1,2-DICHLOROPROPANE	10.75	63.0	32129	121.89	ug/L	9
31)	BROMODICHLOROMETHANE	11.62	83.0	77189	91.27	ug/L	9
32)	*CHLOROBENZENE-D5	16.54	117.0	50164	50.00	ug/L	9
33)	TRANS-1,3-DICHLOROPROPENE	14.13	75.0	20023	33.71	ug/L	9
34)	TOLUENE D8	13.14	98.0	102565	97.43	ug/L	9
35)	TOLUENE	13.28	92.0	48661	94.04	ug/L	9
36)	4-METHYL-2-PENTANONE	13.26	43.0	22672^	135.13	ug/L	8
37)	CIS-1,3-DICHLOROPROPENE	12.67	75.0	82788	153.48	ug/L	9
38)	TETRACHLOROETHYLENE	14.48	164.0	48235	98.85	ug/L	9
39)	1,1,2-TRICHLOROETHANE	14.48	97.0	30665	92.05	ug/L	9
40)	DIBROMOCHLOROMETHANE	15.28	129.0	74629	82.63	ug/L	9
41)	2-HEXANONE	15.32	43.0	16726	144.93	ug/L	8
42)	CHLOROBENZENE	16.62	112.0	75887	91.61	ug/L	8
43)	ETHYLBENZENE	17.03	106.0	32339	89.65	ug/L	9

	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	STYRENE	18.39	104.0	68822	93.45	ug/L	7
45)	XYLENE	17.36	106.0	76416	187.18	ug/L	8
46)	XYLENES (TOTAL)	18.29	106.0	38889^	88.98	ug/L	8
47)	BROMOFORM	18.74	173.0	72240	99.19	ug/L	9
48)	4-BROMOFLUOROBENZENE	19.63	95.0	103291	111.57	ug/L	9
49)	1,1,2,2-TETRACHLOROETHANE	20.37	83.0	52777	93.89	ug/L	9
50)	1,3-DICHLOROBENZENE	22.33	146.0	88166	88.44	ug/L	9
51)	1,4-DICHLOROBENZENE	22.62	146.0	90734	89.68	ug/L	9
52)	1,2-DICHLOROBENZENE	23.50	146.0	84510	89.28	ug/L	9

* Compound is ISTD

TOTAL ION CHROMATOGRAM



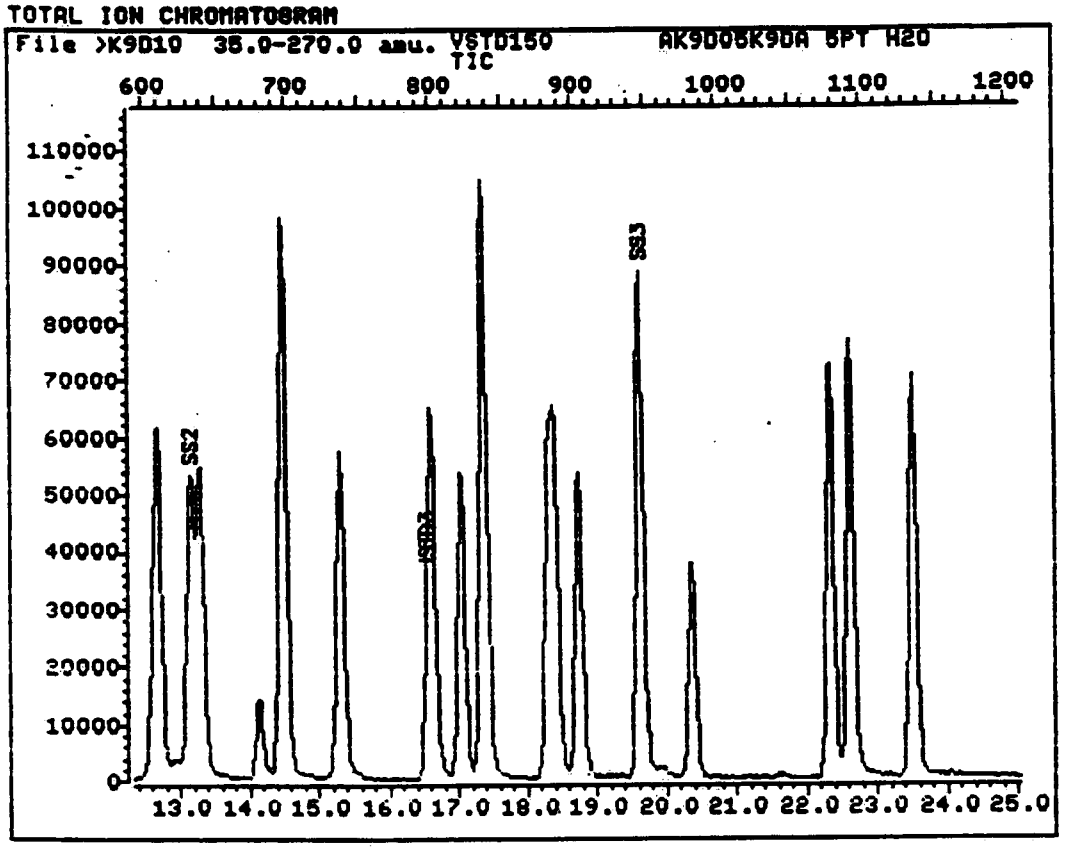
Data File: >K9D10::D2 Quant Output File: ^K9D10::QQ
Name: VSTD150 AK9D05
Misc: K9DA 5PT H2O #HP-MSD K RSL

Id File: I_K9DA::QQ
Title: VOLATILES BY CAPILLARY (DB-624)
Last Calibration: 910812 19:06

Operator ID: RSL
Quant Time: 910913 16:50
Injected at: 910913 16:24

TIC page 1 of 2

TOTAL ION CHROMATOGRAM



Data File: >K9D10::D2 Quant Output File: ^K9D10::QQ
Name: VSTD150 AK9D05
Misc: K9DA 5PT H2O #HP-MSD K RSL

Id File: I_K9DA::QQ
Title: VOLATILES BY CAPILLARY (DB-624)
Last Calibration: 910812 19:06

Operator ID: RSL
Quant Time: 910913 16:50
Injected at: 910913 16:24

TIC page 2 of 2

QUANT REPORT

Operator ID: RSL
Output File: ^K9D10::QQ
Data File: >K9D10::D2
Name: VSTD150 AK9D05
Misc: K9DA 5PT H2O

Quant Rev: 6
Quant Time: 910913 16:50
Injected at: 910913 16:24
Dilution Factor: 1.00000

#HP-MSD K RSL

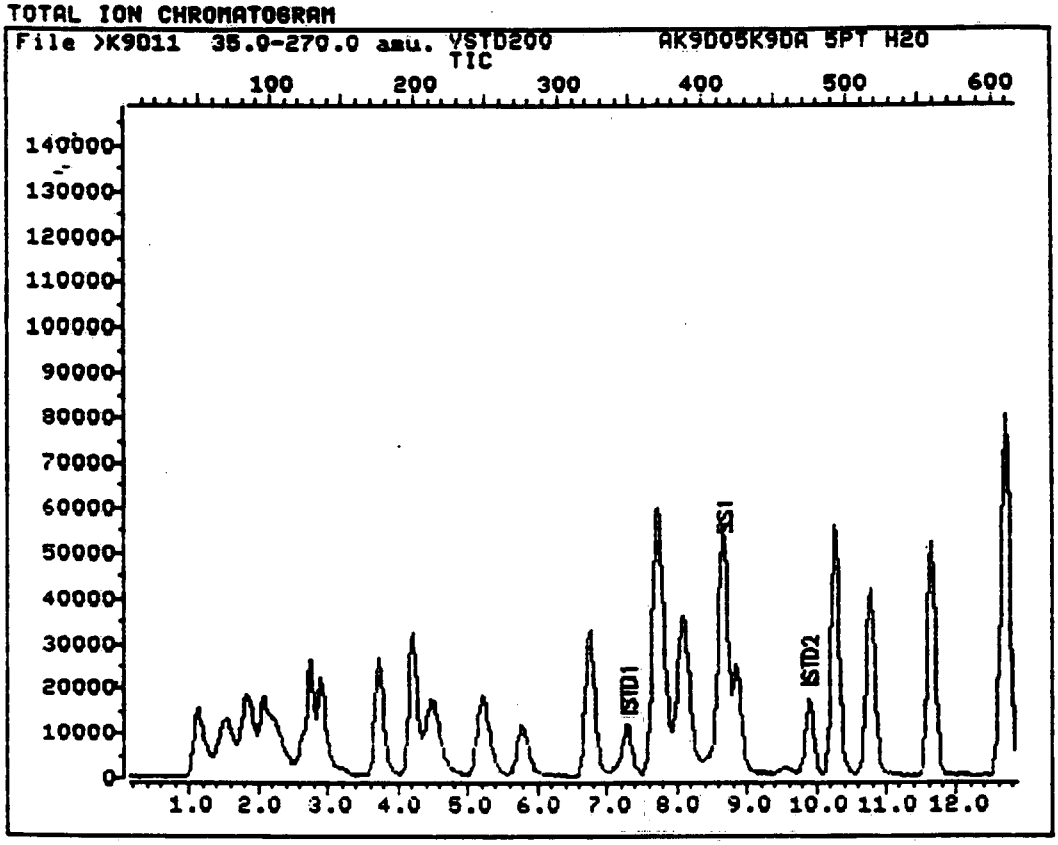
ID File: I_K9DA::QQ
Title: VOLATILES BY CAPILLARY (DB-624)
Last Calibration: 910812 19:06

	Compound	R.T.	Q ion	Area	Conc	Units
1)	*BROMOCHLOROMETHANE	7.27	128.0	14560	50.00	ug/L
2)	CHLOROMETHANE	1.46	50.0	24322	238.73	ug/L
3)	VINYL CHLORIDE	1.56	62.0	32675	184.87	ug/L
4)	BROMOMETHANE	1.81	94.0	40483	155.04	ug/L
5)	CHLOROETHANE	1.83	64.0	18538	177.01	ug/L
6)	TRICHLOROFLUOROMETHANE	2.06	101.0	79286	106.31	ug/L
7)	DIETHYLETHER	2.63	59.0	16599	160.24	ug/L
8)	1,1-DICHLOROETHYLENE	2.76	96.0	33104	136.34	ug/L
9)	ACROLEIN	2.80	56.0	3029M	251.36	ug/L
10)	CARBON DISULFIDE	2.90	76.0	97503	156.40	ug/L
11)	ACETONE	3.15	43.0	6653M	164.30	ug/L
12)	METHYLENE CHLORIDE	3.71	84.0	41908	144.62	ug/L
13)	1,2-DICHLOROETHENE (TOTAL)	4.20	96.0	42861	142.32	ug/L
14)	ACRYLONITRILE	4.41	53.0	6404	217.88	ug/L
15)	T-BUTYL ALCOHOL	5.07	59.0	2678M	147.36	ug/L
16)	METHYL T-BUTYLETHER	4.43	73.0	74320	128.58	ug/L
17)	1,1-DICHLOROETHANE	5.21	63.0	81924	155.39	ug/L
18)	VINYL ACETATE	5.75	43.0	78831	208.49	ug/L
19)	1,2-DICHLOROETHENE (CIS)	6.73	96.0	54064	141.65	ug/L
20)	2-BUTANONE	7.08	72.0	2203	146.47	ug/L
21)	CHLOROFORM	7.70	83.0	100698	132.97	ug/L
22)	1,1,1-TRICHLOROETHANE	7.74	97.0	90142	121.39	ug/L
23)	CARBON TETRACHLORIDE	8.07	117.0	100889	122.09	ug/L
24)	*1,4-DIFLUOROBENZENE	9.89	114.0	54699	50.00	ug/L
25)	BENZENE	8.61	78.0	98370	150.11	ug/L
26)	1,2-DICHLOROETHANE D4	8.67	65.0	73045	140.74	ug/L
27)	1,2-DICHLOROETHANE	8.84	62.0	66044	128.73	ug/L
28)	TRICHLOROETHYLENE	10.26	130.0	61052	134.46	ug/L
29)	2-CHLOROETHYLVINYLETHER	12.61	63.0	27067	155.76	ug/L
30)	1,2-DICHLOROPROPANE	10.75	63.0	48341	179.95	ug/L
31)	BROMODICHLOROMETHANE	11.62	83.0	114356	132.67	ug/L
32)	*CHLOROBENZENE-D5	16.54	117.0	50297	50.00	ug/L
33)	TRANS-1,3-DICHLOROPROPENE	14.13	75.0	29172	48.99	ug/L
34)	TOLUENE D8	13.14	98.0	150057	142.17	ug/L
35)	TOLUENE	13.29	92.0	73428	141.53	ug/L
36)	4-METHYL-2-PENTANONE	13.27	43.0	33169^	197.17	ug/L
37)	CIS-1,3-DICHLOROPROPENE	12.69	75.0	124499	230.19	ug/L
38)	TETRACHLOROETHYLENE	14.48	164.0	69934	142.94	ug/L
39)	1,1,2-TRICHLOROETHANE	14.48	97.0	45297	135.62	ug/L
40)	DIBROMOCHLOROMETHANE	15.31	129.0	113163	124.96	ug/L
41)	2-HEXANONE	15.33	43.0	24391	210.79	ug/L
42)	CHLOROBENZENE	16.60	112.0	113073	136.13	ug/L
43)	ETHYLBENZENE	17.06	106.0	48067	132.90	ug/L

	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	STYRENE	18.40	104.0	101509	137.47	ug/L	84
45)	XYLENE	17.37	106.0	112318	274.39	ug/L	89
46)	XYLENES (TOTAL)	18.32	106.0	58173^	132.75	ug/L	89
47)	BROMOFORM	18.75	173.0	110196	150.91	ug/L	98
48)	4-BROMOFLUOROBENZENE	19.63	95.0	150157	161.76	ug/L	93
49)	1,1,2,2-TETRACHLOROETHANE	20.38	83.0	80318	142.51	ug/L	99
50)	1,3-DICHLOROBENZENE	22.35	146.0	131730	131.79	ug/L	93
51)	1,4-DICHLOROBENZENE	22.62	146.0	133931	132.02	ug/L	9
52)	1,2-DICHLOROBENZENE	23.51	146.0	125782	132.54	ug/L	92

* Compound is ISTD

TOTAL ION CHROMATOGRAM



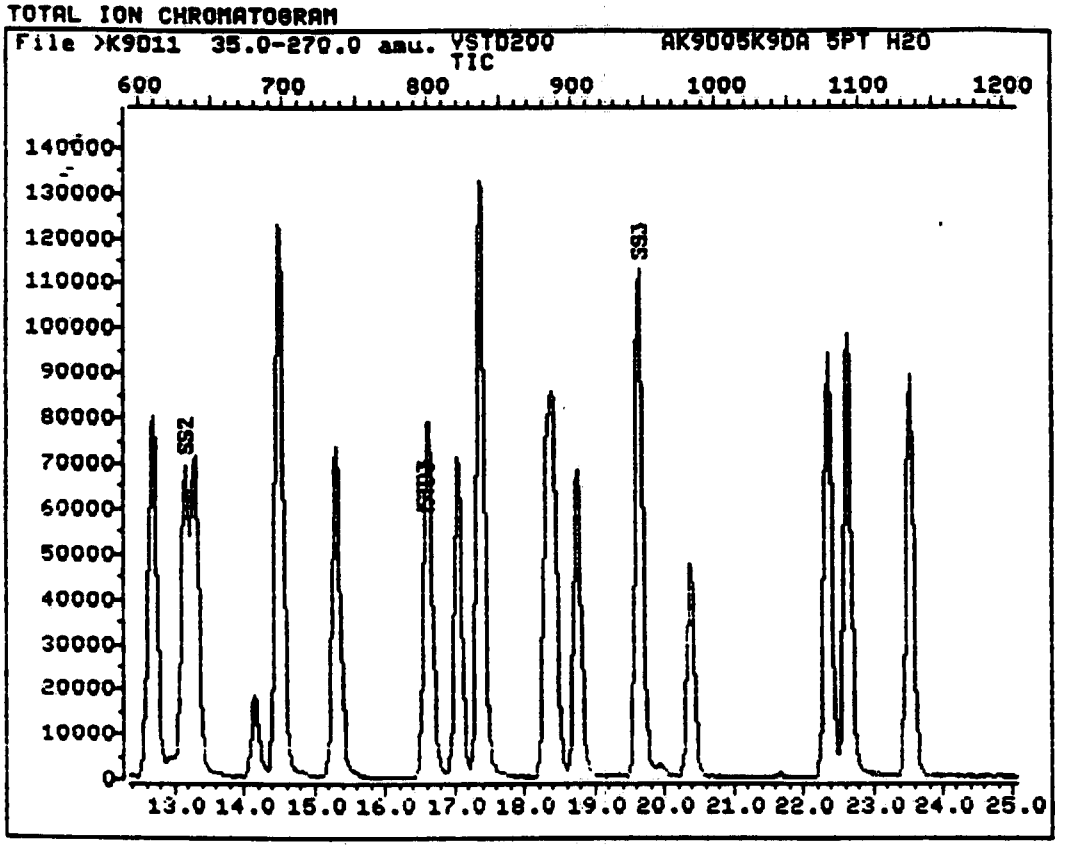
Data File: >K9D11::D2 Quant Output File: ^K9D11::QQ
Name: VSTD200 AK9D05
Misc: K9DA 5PT H2O #HP-MSD K RSL

Id File: I_K9DA::QQ
Title: VOLATILES BY CAPILLARY (DB-624)
Last Calibration: 910812 19:06

Operator ID: RSL
Quant Time: 910913 17:25
Injected at: 910913 16:59

TIC page 1 of 2

TOTAL ION CHROMATOGRAM



Data File: >K9D11::D2 Quant Output File: ^K9D11::QQ
Name: VSTD200 AK9D05
Misc: K9DA 5PT H2O #HP-MSD K RSL

Id File: I_K9DA::QQ
Title: VOLATILES BY CAPILLARY (DB-624)
Last Calibration: 910812 19:06

Operator ID: RSL
Quant Time: 910913 17:25
Injected at: 910913 16:59

TIC page 2 of 2

QUANT REPORT

Operator ID: RSL
Output File: ^K9D11::QQ
Data File: >K9D11::D2
Name: VSTD200 AK9D05
Misc: K9DA 5PT H2O

Quant Rev: 6
Quant Time: 910913 17:25
Injected at: 910913 16:59
Dilution Factor: 1.00000

#HP-MSD K RSL

ID File: I_K9DA::QQ
Title: VOLATILES BY CAPILLARY (DB-624)
Last Calibration: 910812 19:06

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE	7.31	128.0	14112	50.00	ug/L	7
2)	CHLOROMETHANE	1.49	50.0	32432	328.44	ug/L	9
3)	VINYL CHLORIDE	1.56	62.0	41902	244.61	ug/L	9
4)	BROMOMETHANE	1.82	94.0	51491	203.46	ug/L	9
5)	CHLOROETHANE	1.87	64.0	23912	235.58	ug/L	9
6)	TRICHLOROFLUOROMETHANE	2.09	101.0	103176	142.74	ug/L	9
7)	DIETHYLETHER	2.65	59.0	18820	187.45	ug/L	8
8)	1,1-DICHLOROETHYLENE	2.75	96.0	33825	143.74	ug/L	9
9)	ACROLEIN	2.79	56.0	3884	332.54	ug/L	8
10)	CARBON DISULFIDE	2.92	76.0	110555	182.97	ug/L	9
11)	ACETONE	3.21	43.0	7574	192.99	ug/L	10
12)	METHYLENE CHLORIDE	3.72	84.0	53110	189.10	ug/L	9
13)	1,2-DICHLOROETHENE (TOTAL)	4.22	96.0	56606	193.92	ug/L	9
14)	ACRYLONITRILE	4.46	53.0	9134	320.62	ug/L	9
15)	T-BUTYL ALCOHOL	5.25	59.0	4238M	240.61	ug/L	8
16)	METHYL T-BUTYLETHER	4.52	73.0	94759	169.14	ug/L	9
17)	1,1-DICHLOROETHANE	5.23	63.0	106039	207.52	ug/L	9
18)	VINYL ACETATE	5.78	43.0	104113	284.09	ug/L	7
19)	1,2-DICHLOROETHENE (CIS)	6.75	96.0	69924	189.02	ug/L	9
20)	2-BUTANONE	7.14	72.0	2929	200.93	ug/L	9
21)	CHLOROFORM	7.72	83.0	132361	180.33	ug/L	9
22)	1,1,1-TRICHLOROETHANE	7.76	97.0	117831	163.72	ug/L	7
23)	CARBON TETRACHLORIDE	8.11	117.0	132125	164.96	ug/L	8
24)	*1,4-DIFLUOROBENZENE	9.90	114.0	53703	50.00	ug/L	6
25)	BENZENE	8.65	78.0	128754	200.11	ug/L	7
26)	1,2-DICHLOROETHANE D4	8.69	65.0	96031	188.46	ug/L	9
27)	1,2-DICHLOROETHANE	8.85	62.0	88416	175.54	ug/L	9
28)	TRICHLOROETHYLENE	10.28	130.0	82438	184.93	ug/L	9
29)	2-CHLOROETHYLVINYLETHER	12.62	63.0	36455	213.67	ug/L	7
30)	1,2-DICHLOROPROPANE	10.79	63.0	62855	238.32	ug/L	9
31)	BROMODICHLOROMETHANE	11.64	83.0	149704	176.90	ug/L	9
32)	*CHLOROBENZENE-D5	16.58	117.0	50848	50.00	ug/L	9
33)	TRANS-1,3-DICHLOROPROPENE	14.15	75.0	38337	63.68	ug/L	9
34)	TOLUENE D8	13.16	98.0	197096	184.71	ug/L	9
35)	TOLUENE	13.31	92.0	96049	183.13	ug/L	9
36)	4-METHYL-2-PENTANONE	13.28	43.0	44843^	263.68	ug/L	8
37)	CIS-1,3-DICHLOROPROPENE	12.71	75.0	159876	292.40	ug/L	9
38)	TETRACHLOROETHYLENE	14.50	164.0	90104	182.17	ug/L	9
39)	1,1,2-TRICHLOROETHANE	14.50	97.0	58902	174.44	ug/L	9
40)	DIBROMOCHLOROMETHANE	15.33	129.0	146403	159.92	ug/L	9
41)	2-HEXANONE	15.35	43.0	29381	251.16	ug/L	9
42)	CHLOROBENZENE	16.64	112.0	148636	177.01	ug/L	7
43)	ETHYLBENZENE	17.06	106.0	65219	178.38	ug/L	9

	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	STYRENE	18.42	104.0	133885	* 179.35	ug/L	8
45)	XYLENE	17.39	106.0	145977	352.76	ug/L	8
46)	XYLENES (TOTAL)	18.33	106.0	76300^	172.23	ug/L	8
47)	BROMOFORM	18.77	173.0	141886	192.20	ug/L	9
48)	4-BROMOFLUOROBENZENE	19.65	95.0	195697	208.54	ug/L	9
49)	1,1,2,2-TETRACHLOROETHANE	20.40	83.0	103499	181.65	ug/L	9
50)	1,3-DICHLOROBENZENE	22.35	146.0	171523	169.74	ug/L	8
51)	1,4-DICHLOROBENZENE	22.64	146.0	173588	169.26	ug/L	9
52)	1,2-DICHLOROBENZENE	23.53	146.0	162791	169.67	ug/L	8

* Compound is ISTD

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Roy F. Weston, Inc. Contract: 3600-04-90-0000

Case No.: WSI-LE CARPENTER RFW Lot: 9109L758

Instrument ID: HP-MSD K Calibration Date: 09/28/91 Time: 1241

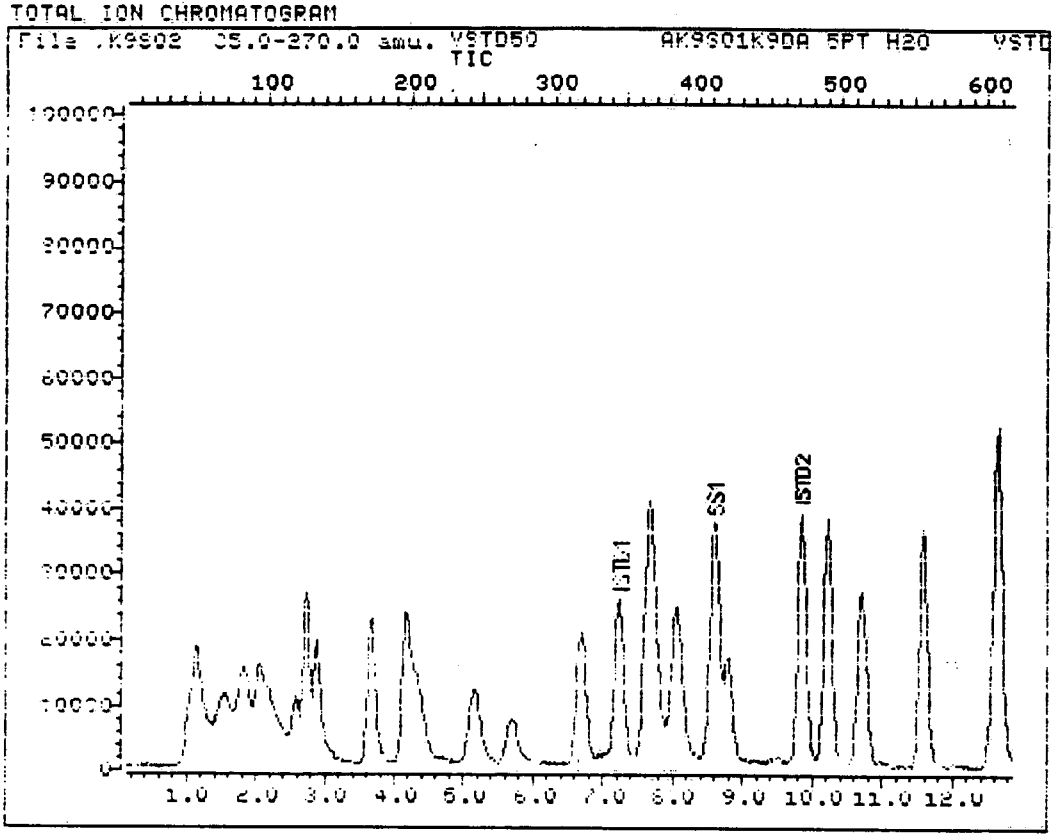
Lab File ID: AK9S02 Init. Calib. Date(s): 09/13/91 09/13/91

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform Max %D for CCC(*) = 25.0%

COMPOUND		RRF	RRF50	%D	
Chloromethane	#	0.591	0.522	11.6	# ✓
Bromomethane		0.972	0.944	2.9	
Vinyl Chloride	*	0.774	0.761	1.7	* ✓
Chloroethane		0.444	0.430	3.1	
Methylene Chloride		1.073	1.288	-20.1	
1,1-Dichloroethene	*	0.836	0.961	-15.0	* ✓
1,1-Dichloroethane	#	1.933	2.078	-7.5	# ✓
1,2-Dichloroethene (total)		1.027	1.138	-10.8	
Chloroform	*	2.456	2.670	-8.7	* ✓
1,2-Dichloroethane		0.424	0.468	-10.4	
1,1,1-Trichloroethane		2.193	2.440	-11.3	
Carbon Tetrachloride		2.404	2.585	-7.5	
Bromodichloromethane		0.723	0.788	-9.0	
1,2-Dichloropropane	*	0.302	0.319	-5.6	* ✓
cis-1,3-Dichloropropene		0.511	0.543	-6.3	
Trichloroethene		0.388	0.447	-15.2	
Dibromochloromethane		0.757	0.826	-9.2	
1,1,2-Trichloroethane		0.312	0.328	-5.1	
Benzene		0.629	0.707	-12.4	
Trans-1,3-Dichloropropene		0.512	0.502	1.9	
2-chloroethylvinylether		0.171	0.183	-7.1	
Bromoform	#	0.730	0.791	-8.4	# ✓
Tetrachloroethene		0.477	0.514	-7.7	
1,1,2,2-Tetrachloroethane	#	0.537	0.547	-1.8	# ✓
Toluene	*	0.490	0.527	-7.6	* ✓
Chlorobenzene	#	0.747	0.795	-6.5	# ✓
Ethylbenzene	*	0.325	0.338	-4.0	* ✓
1,2-Dichlorobenzene		0.848	0.880	-3.8	
1,3-Dichlorobenzene		0.879	0.904	-2.8	
1,4-Dichlorobenzene		0.907	0.960	-5.9	
Acrolein		0.076	0.077	-0.8	
Acrylonitrile		0.142	0.176	-24.2	
Trichlorofluoromethane		2.092	2.225	-6.4	
Xylene (total)		0.394	0.421	-6.9	
Toluene-d8		1.014	1.047	-3.2	
Bromofluorobenzene		1.024	0.932	9.0	
1,2-Dichloroethane-d4		0.470	0.499	-6.1	

TOTAL ION CHROMATOGRAM



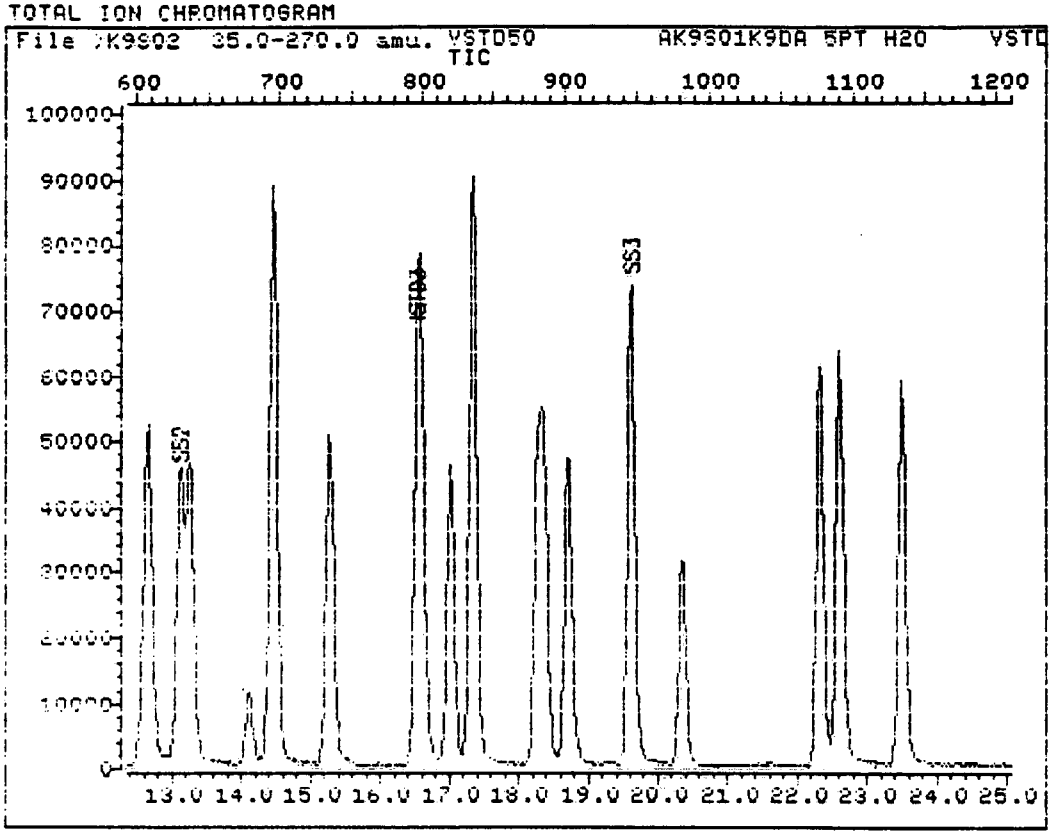
Data File: >K9S02::D2 Quant Output File: ^K9S02::QQ
Name: VSTD50 AK9S01
Misc: K9DA 5PT H2O VSTD50 #HP-MSD K BB

Id File: I_K9DA::QQ
Title: VOLATILES BY CAPILLARY (DB-624)
Last Calibration: 910914 17:51

Operator ID: BB
Quant Time: 910928 13:07
Injected at: 910928 12:41

TIC page 1 of 2

TOTAL ION CHROMATOGRAM



Data File: >K9S02::D2 Quant Output File: ^K9S02::QQ
Name: VSTD50 AK9S01
Misc: K9DA 5PT H2O VSTD50 #HP-MSD K BB

Id File: I_K9DA::QQ
Title: VOLATILES BY CAPILLARY (DB-624)
Last Calibration: 910914 17:51

Operator ID: BB
Quant Time: 910928 13:07
Injected at: 910928 12:41

TIC page 2 of 2

QUANT REPORT

Operator ID: BB Quant Rev: 6 Quant Time: 910928 13:07
Output File: ^K9S02::QQ Injected at: 910928 12:41
Data File: >K9S02::D2 Dilution Factor: 1.00000
Name: VSTD50 AK9S01
Misc: K9DA 5PT H2O VSTD50 #HP-MSD K BB

ID File: I_K9DA::QQ
Title: VOLATILES BY CAPILLARY (DB-624)
Last Calibration: 910914 17:51

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE	7.25	128.0	33345	50.00	ug/L	81
2)	CHLOROMETHANE	1.48	50.0	17411	44.14	ug/L	84
3)	VINYL CHLORIDE	1.56	62.0	25363	49.15	ug/L	94
4)	BROMOMETHANE	1.83	94.0	31469	48.53	ug/L	95
5)	CHLOROETHANE	1.85	64.0	14351	48.42	ug/L	86
6)	TRICHLOROFLUOROMETHANE	2.06	101.0	74188	53.17	ug/L	93
7)	DIETHYLETHER	2.59	59.0	17945	70.66	ug/L	88
8)	1,1-DICHLOROETHYLENE	2.74	96.0	32061	57.50	ug/L	94
9)	ACROLEIN	2.76	56.0	2554	50.06	ug/L	66
10)	CARBON DISULFIDE	2.88	76.0	88193	54.56	ug/L	97
11)	ACETONE	3.05	43.0	6256	48.55	ug/L	100
12)	METHYLENE CHLORIDE	3.67	84.0	42957	60.05	ug/L	87
13)	1,2-DICHLOROETHENE (TOTAL)	4.16	96.0	37958	55.41	ug/L	90
14)	ACRYLONITRILE	4.35	53.0	5882	62.13	ug/L	81
15)	T-BUTYL ALCOHOL	4.78	59.0	2334M	61.41	ug/L	40
16)	METHYL-T-BUTYLETHER	4.32	73.0	65887	55.45	ug/L	91
17)	1,1-DICHLOROETHANE	5.17	63.0	69284	53.73	ug/L	89
18)	VINYL ACETATE	5.68	43.0	66682	52.40	ug/L	72
19)	1,2-DICHLOROETHENE (CIS)	6.67	96.0	44501	49.05	ug/L	95
20)	2-BUTANONE	7.04	72.0	2083	71.61	ug/L	84
21)	CHLOROFORM	7.64	83.0	89049	54.37	ug/L	95
22)	1,1,1-TRICHLOROETHANE	7.70	97.0	81368	55.63	ug/L	86
23)	CARBON TETRACHLORIDE	8.08	117.0	86202	53.76	ug/L	90
24)	*1,4-DIFLUOROBENZENE	9.85	114.0	126964	50.00	ug/L	69
25)	BENZENE	8.57	78.0	89774	56.23	ug/L	76
26)	1,2-DICHLOROETHANE D4	8.61	65.0	63321	53.11	ug/L	96
27)	1,2-DICHLOROETHANE	8.80	62.0	59445	55.27	ug/L	93
28)	TRICHLOROETHYLENE	10.24	130.0	56772	57.63	ug/L	96
29)	2-CHLOROETHYLVINYLETHER	12.59	63.0	23243	53.50	ug/L	69
30)	1,2-DICHLOROPROPANE	10.71	63.0	40490	52.85	ug/L	96
31)	BROMODICHLOROMETHANE	11.58	83.0	100021	54.46	ug/L	86
32)	*CHLOROBENZENE-D5	16.53	117.0	120354	50.00	ug/L	96
33)	TRANS-1,3-DICHLOROPROPENE	14.11	75.0	22968	18.66	ug/L	91
34)	TOLUENE D8	13.10	98.0	125988	51.63	ug/L	96
35)	TOLUENE	13.27	92.0	63437	53.74	ug/L	98
36)	4-METHYL-2-PENTANONE	13.23	43.0	28803^	50.23	ug/L	58
37)	CIS-1,3-DICHLOROPROPENE	12.65	75.0	105928	86.09	ug/L	97
38)	TETRACHLOROETHYLENE	14.47	164.0	61839	53.86	ug/L	97
39)	1,1,2-TRICHLOROETHANE	14.47	97.0	39458	52.49	ug/L	98
40)	DIBROMOCHLOROMETHANE	15.27	129.0	99456	54.56	ug/L	92
41)	2-HEXANONE	15.31	43.0	17685	42.20	ug/L	91
42)	CHLOROBENZENE	16.59	112.0	95736	53.24	ug/L	82
43)	ETHYLBENZENE	17.02	106.0	40684	52.01	ug/L	99

	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	STYRENE	18.38	104.0	86662	51.94	ug/L	94
45)	XYLENE	17.35	106.0	98694	105.78	ug/L	92
46)	XYLENES (TOTAL)	18.28	106.0	50715^	53.41	ug/L	87
47)	BROMOFORM	18.71	173.0	95224	54.22	ug/L	97
48)	4-BROMOFLUOROBENZENE	19.62	95.0	112157	45.51	ug/L	96
49)	1,1,2,2-TETRACHLOROETHANE	20.36	83.0	65796	50.87	ug/L	98
50)	1,3-DICHLOROBENZENE	22.32	146.0	108750	51.39	ug/L	94
51)	1,4-DICHLOROBENZENE	22.61	146.0	115575	52.94	ug/L	99
52)	1,2-DICHLOROBENZENE	23.49	146.0	105932	51.90	ug/L	93

* Compound is ISTD

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Roy F. Weston, Inc. Contract: 3600-04-90-0000

Case No.: WSI-LE CARPENTER RFW Lot: 9109L758

Instrument ID: 1050W Calibration Date: 09/24/91 Time: 1044

Lab File ID: W092402 Init. Calib. Date(s): 09/03/91 09/03/91

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) PACK

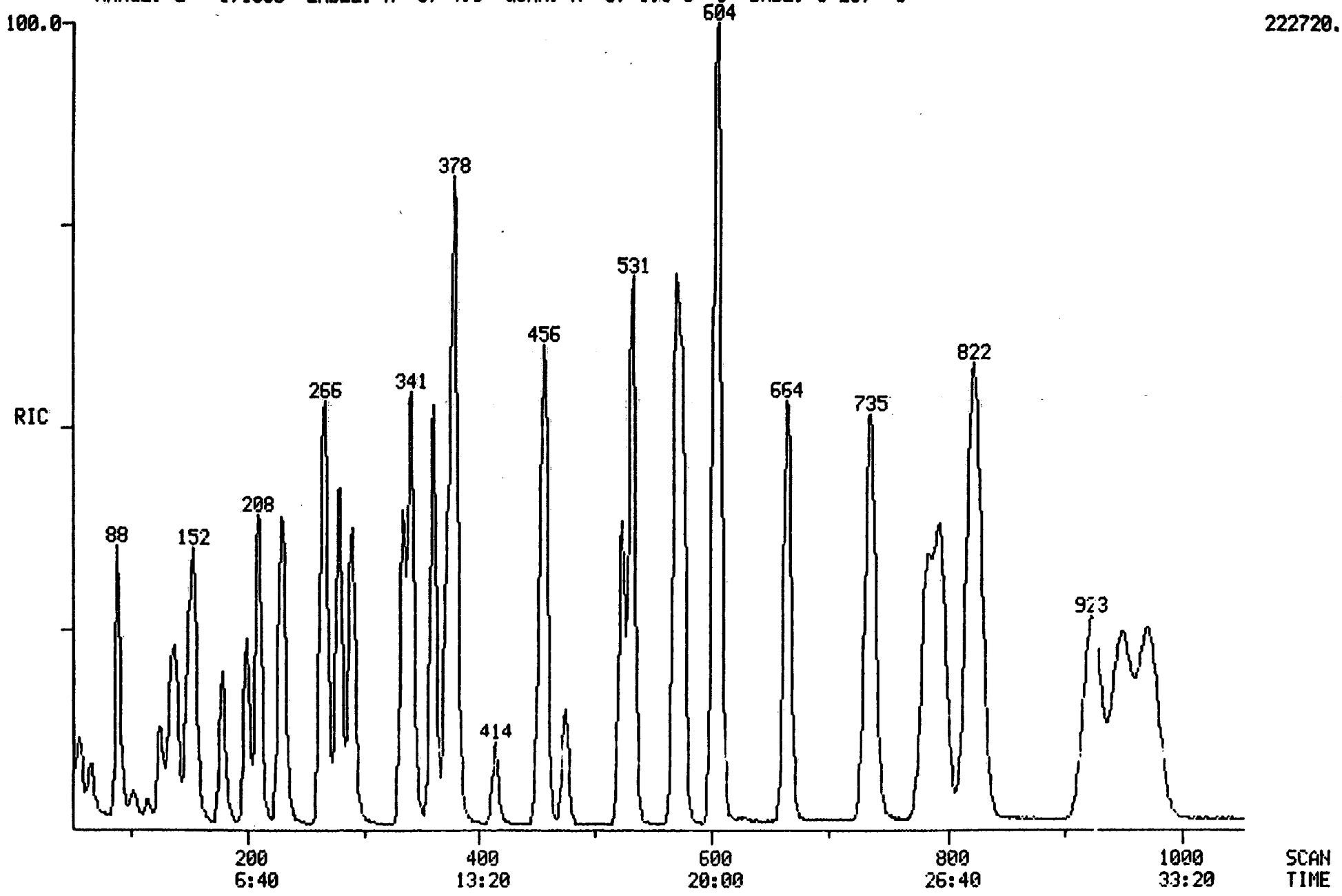
Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform Max %D for CCC(*) = 25.0%

COMPOUND		$\overline{RRF}$	RRF50	%D	
Chloromethane	#	0.719	0.826	-14.9	# ✓
Bromomethane		1.018	1.197	-17.6	
Vinyl Chloride	*	1.093	1.075	1.6	* ✓
Chloroethane		0.650	0.705	-8.5	
Methylene Chloride		1.132	1.346	-18.9	
1,1-Dichloroethene	*	1.021	1.014	0.7	* ✓
1,1-Dichloroethane	#	2.230	2.075	7.0	# ✓
1,2-Dichloroethene (total)		1.105	1.104	0.1	
Chloroform	*	2.630	2.471	6.0	* ✓
1,2-Dichloroethane		2.440	2.199	9.9	
1,1,1-Trichloroethane		0.598	0.538	10.0	
Carbon Tetrachloride		0.612	0.539	11.9	
Bromodichloromethane		0.547	0.465	15.0	
1,2-Dichloropropane	*	0.313	0.283	9.6	* ✓
cis-1,3-Dichloropropene		0.421	0.358	15.0	
Trichloroethene		0.457	0.427	6.6	
Dibromochloromethane		0.535	0.436	18.5	
1,1,2-Trichloroethane		0.274	0.268	2.2	
Benzene		0.742	0.769	-3.6	
Trans-1,3-Dichloropropene		0.420	0.356	15.2	
2-chloroethylvinylether		0.134	0.102	23.9	
Bromoform	#	0.443	0.299	32.5	# ✓
Tetrachloroethene		0.450	0.390	13.3	
1,1,2,2-Tetrachloroethane	#	0.372	0.352	5.4	# ✓
Toluene	*	0.586	0.567	3.2	* ✓
Chlorobenzene	#	0.813	0.777	4.4	# ✓
Ethylbenzene	*	0.397	0.367	7.6	* ✓
1,2-Dichlorobenzene		0.934	0.729	21.9	
1,3-Dichlorobenzene		0.970	0.781	19.5	
1,4-Dichlorobenzene		1.013	0.809	20.1	
Acrolein		0.130	0.096	26.2	
Acrylonitrile		0.275	0.244	11.3	
Trichlorofluoromethane		3.336	3.392	-1.7	
Xylene (total)		0.425	0.388	8.7	
Toluene-d8		1.056	1.091	-3.3	
Bromofluorobenzene		0.791	0.812	-2.7	
1,2-Dichloroethane-d4		2.742	2.586	5.7	

RIC
09/24/91 10:44:00
SAMPLE: VSTD50 LOW WATER CCL
CONDS.: 1050W, VO, METHOD 2
RANGE: G 1,1050 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: W092402 #1
CALI: W092402 #2

SCANS 50 TO 1050



Quantitation Report File: W092402

Data: W092402.TI
09/24/91 10:44:00
Sample: VSTD50 LOW WATER CCL
Conds.: 1050W, VO, METHOD 2
Formula: W092401 Instrument: 1050W Weight: 0.039
Submitted by: Analyst: PSS Acct. No.: 082291

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	IS1	BROMOCHLOROMETHANE	INTERNAL STANDARD #1
2	SS1	1,2-DICHLOROETHANE D4	SURROGATE STANDARD#1
3	45V	CHLOROMETHANE	
4	46V	BROMOMETHANE	
5	88V	VINYL CHLORIDE	
6	16V	CHLOROETHANE	
7	44V	METHYLENE CHLORIDE	
8	13H	ACETONE	
9	21H	ACROLEIN	
10	15H	CARBON DISULFIDE	
11	24H	TRICHLOROFLUOROMETHANE	
12	22H	ACRYLONITRILE	
13	29V	1,1-DICHLOROETHYLENE	
14	13V	1,1-DICHLOROETHANE	
15		1,2-DICHLOROETHENE (TOTAL)	
16	23V	CHLOROFORM	
17	10V	1,2-DICHLOROETHANE	
18	IS2	1,4-DIFLUOROBENZENE	INTERNAL STANDARD #2
19	14H	2-BUTANONE	
20	11V	1,1,1-TRICHLOROETHANE	
21	6V	CARBON TETRACHLORIDE	
22	19H	VINYL ACETATE	
23	48V	BROMODICHLOROMETHANE	
24	32V	1,2-DICHLOROPROPANE	
25	33VC	CIS-1,3-DICHLOROPROPENE	
26		TRICHLOROETHYLENE	
27	51V	DIBROMOCHLOROMETHANE	
28	14V	1,1,2-TRICHLOROETHANE	
29	4V	BENZENE	
30	33VT	TRANS-1,3-DICHLOROPROPENE	
31		2-CHLOROETHYLVINYLETHER	
32	47V	BROMOFORM	
33	IS3	CHLOROBENZENE D5	INTERNAL STANDARD #3
34	SS2	TOLUENE D8	SURROGATE STANDARD #2
35	SS3	4-BROMOFLUOROBENZENE	SURROGATE STANDARD #3
36	17H	4-METHYL-2-PENTANONE	
37	16H	2-HEXANONE	
38	85V	TETRACHLOROETHYLENE	
39	15V	1,1,2,2-TETRACHLOROETHANE	
40	86V	TOLUENE	
41	7V	CHLOROBENZENE	
42	38V	ETHYLBENZENE	
43	18H	STYRENE	
44		XYLENES (TOTAL)	
45	26B	1,3-DICHLOROBENZENE	
46	25B	1,2-DICHLOROBENZENE	
47	27B	1,4-DICHLOROBENZENE	

No	Name
48	XYLENES
49	METHYL-T-BUTYLETHER
50	DIETHYLETHER

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	153	5:06	1	1.000	A BB	46933.	50.000 UG/L	1.92
2	65	228	7:36	1	1.490	A BB	121383.	50.000 UG/L	1.92
3	50	37	1:14	1	0.242	A BB	38789.	50.000 UG/L	1.92
4	94	48	1:36	1	0.314	A BB	56185.	50.000 UG/L	1.92
5	62	56	1:52	1	0.366	A BB	50457.	50.000 UG/L	1.92
6	64	66	2:12	1	0.431	A VB	33072.	50.000 UG/L	1.92
7	84	88	2:56	1	0.575	A BB	63160.	50.000 UG/L	1.92
8	43	101	3:22	1	0.660	A BB	16554.	50.000 UG/L	1.92
9	56	103	3:26	1	0.673	A BB	4499.	50.000 UG/L	1.92
10	76	124	4:08	1	0.810	A BB	107493.	50.000 UG/L	1.92
11	101	136	4:32	1	0.889	A BB	159187.	50.000 UG/L	1.92
12	53	113	3:46	1	0.739	A BB	11436.	50.000 UG/L	1.92
13	96	148	4:56	1	0.967	A BB	47611.	50.000 UG/L	1.92
14	63	177	5:54	1	1.157	A BB	97409.	50.000 UG/L	1.92
15	96	198	6:36	1	1.294	A BB	51829.	50.000 UG/L	1.92
16	83	208	6:56	1	1.359	A BB	115959.	50.000 UG/L	1.92
17	62	231	7:42	1	1.510	A BB	103214.	50.000 UG/L	1.92
18	114	456	15:12	18	1.000	A BB	259701.	50.000 UG/L	1.92
19	72	232	7:44	1	1.516	A BB	4982.	50.000 UG/L	1.92
20	97	267	8:54	18	0.586	A BB	139689.	50.000 UG/L	1.92
21	117	278	9:16	18	0.610	A VB	139850.	50.000 UG/L	1.92
22	43	287	9:34	18	0.629	A BB	85659.	50.000 UG/L	1.92
23	83	290	9:40	18	0.636	A BB	120707.	50.000 UG/L	1.92
24	63	334	11:08	18	0.732	A BB	73429.	50.000 UG/L	1.92
25	75	341	11:22	18	0.748	A BB	150674.	81.000 UG/L	3.12
26	130	360	12:00	18	0.789	A BB	110839.	50.000 UG/L	1.92
27	129	372	12:24	18	0.816	A BB	113153.	50.000 UG/L	1.92
28	97	377	12:34	18	0.827	A BB	69472.	50.000 UG/L	1.92
29	78	378	12:36	18	0.829	A BB	199829.	50.000 UG/L	1.92
30	75	380	12:40	18	0.833	A BB	35149.	19.000 UG/L	0.73
31	63	414	13:48	18	0.908	A BB	26408.	50.000 UG/L	1.92
32	173	451	15:02	18	0.989	A BB	77537.	50.000 UG/L	1.92
33	117	602	20:04	33	1.000	A BB	260419.	50.000 UG/L	1.92
34	98	568	18:56	33	0.944	A BB	284119.	50.000 UG/L	1.92
35	95	735	24:30	33	1.221	A BB	211447.	50.000 UG/L	1.92
36	43	474	15:48	33	0.787	A BB	73651.	50.000 UG/L	1.92
37	43	522	17:24	33	0.867	A BB	54528.	50.000 UG/L	1.92
38	164	531	17:42	33	0.882	A BB	101490.	50.000 UG/L	1.92
39	83	522	17:24	33	0.867	A BB	91549.	50.000 UG/L	1.92
40	92	574	19:08	33	0.953	A BB	147607.	50.000 UG/L	1.92
41	112	606	20:12	33	1.007	A BB	202362.	50.000 UG/L	1.92
42	106	664	22:08	33	1.103	A BB	95621.	50.000 UG/L	1.92
43	104	782	26:04	33	1.299	A BB	163891.	50.000 UG/L	1.92
44	106	823	27:26	33	1.367	A BB	202200.	100.000 UG/L	3.85
45	146	923	30:46	33	1.533	M XX	203266.	50.000 UG/L	1.92
46	146	949	31:38	33	1.576	M XX	189936.	50.000 UG/L	1.92
47	146	970	32:20	33	1.611	M XX	210713.	50.000 UG/L	1.92
48	106	794	26:28	33	1.319	A BB	103956.	50.000 UG/L	1.92
49	73	264	8:48	1	1.725	A BB	126115.	50.000 UG/L	1.92
50	59	210	7:00	1	1.373	A VB	36532.	50.000 UG/L	1.92

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	5:06	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	7:36	1.00	1.490	1.00	50.00	50.00	2.586	2.586	1.00
3	1:14	1.00	0.242	1.00	50.00	50.00	0.826	0.826	1.00
4	1:36	1.00	0.314	1.00	50.00	50.00	1.197	1.197	1.00
5	1:52	1.00	0.366	1.00	50.00	50.00	1.075	1.075	1.00
6	2:12	1.00	0.431	1.00	50.00	50.00	0.705	0.705	1.00
7	2:56	1.00	0.575	1.00	50.00	50.00	1.346	1.346	1.00
8	3:22	1.00	0.660	1.00	50.00	50.00	0.353	0.353	1.00
9	3:26	1.00	0.673	1.00	50.00	50.00	0.096	0.096	1.00
10	4:08	1.00	0.810	1.00	50.00	50.00	2.290	2.290	1.00
11	4:32	1.00	0.889	1.00	50.00	50.00	3.392	3.392	1.00
12	3:46	1.00	0.739	1.00	50.00	50.00	0.244	0.244	1.00
13	4:56	1.00	0.967	1.00	50.00	50.00	1.014	1.014	1.00
14	5:54	1.00	1.157	1.00	50.00	50.00	2.075	2.075	1.00
15	6:36	1.00	1.294	1.00	50.00	50.00	1.104	1.104	1.00
16	6:56	1.00	1.359	1.00	50.00	50.00	2.471	2.471	1.00
17	7:42	1.00	1.510	1.00	50.00	50.00	2.199	2.199	1.00
18	15:12	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
19	7:44	1.00	1.516	1.00	50.00	50.00	0.106	0.106	1.00
20	8:54	1.00	0.586	1.00	50.00	50.00	0.538	0.538	1.00
21	9:16	1.00	0.610	1.00	50.00	50.00	0.539	0.539	1.00
22	9:34	1.00	0.629	1.00	50.00	50.00	0.330	0.330	1.00
23	9:40	1.00	0.636	1.00	50.00	50.00	0.465	0.465	1.00
24	11:08	1.00	0.732	1.00	50.00	50.00	0.283	0.283	1.00
25	11:22	1.00	0.748	1.00	81.00	81.00	0.358	0.358	1.00
26	12:00	1.00	0.789	1.00	50.00	50.00	0.427	0.427	1.00
27	12:24	1.00	0.816	1.00	50.00	50.00	0.436	0.436	1.00
28	12:34	1.00	0.827	1.00	50.00	50.00	0.268	0.268	1.00
29	12:36	1.00	0.829	1.00	50.00	50.00	0.769	0.769	1.00
30	12:40	1.00	0.833	1.00	19.00	19.00	0.356	0.356	1.00
31	13:48	1.00	0.908	1.00	50.00	50.00	0.102	0.102	1.00
32	15:02	1.00	0.989	1.00	50.00	50.00	0.299	0.299	1.00
33	20:04	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
34	18:56	1.00	0.944	1.00	50.00	50.00	1.091	1.091	1.00
35	24:30	1.00	1.221	1.00	50.00	50.00	0.812	0.812	1.00
36	15:48	1.00	0.787	1.00	50.00	50.00	0.283	0.283	1.00
37	17:24	1.00	0.867	1.00	50.00	50.00	0.209	0.209	1.00
38	17:42	1.00	0.882	1.00	50.00	50.00	0.390	0.390	1.00
39	17:24	1.00	0.867	1.00	50.00	50.00	0.352	0.352	1.00
40	19:08	1.00	0.953	1.00	50.00	50.00	0.567	0.567	1.00
41	20:12	1.00	1.007	1.00	50.00	50.00	0.777	0.777	1.00
42	22:08	1.00	1.103	1.00	50.00	50.00	0.367	0.367	1.00
43	26:04	1.00	1.299	1.00	50.00	50.00	0.629	0.629	1.00
44	27:26	1.00	1.367	1.00	100.00	100.00	0.388	0.388	1.00
45	30:46	1.00	1.533	1.00	50.00	50.00	0.781	0.781	1.00
46	31:38	1.00	1.576	1.00	50.00	50.00	0.729	0.729	1.00
47	32:20	1.00	1.611	1.00	50.00	50.00	0.809	0.809	1.00
48	26:28	1.00	1.319	1.00	50.00	50.00	0.399	0.399	1.00
49	8:48	1.00	1.725	1.00	50.00	50.00	2.687	2.687	1.00
50	7:00	1.00	1.373	1.00	50.00	50.00	0.778	0.778	1.00

Quantitation Report File: W092402

Data: W092402.TI
09/24/91 10:44:00
Sample: VSTD50 LOW WATER CCL
Conds.: 1050W, VO, METHOD 2
Formula: W092401 Instrument: 1050W Weight: 0.039
Submitted by: Analyst: PSS Acct. No.: 082291

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
51	T-BUTYL ALCOHOL

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	59	183	6:06	1	1.196	A BB	5370.	50.000 UG/L	1.92

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	6:06	1.00	1.196	1.00	50.00	50.00	0.114	0.114	1.00

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Roy F. Weston, Inc. Contract: 3600-04-90-0000

Case No.: WSI-LE CARPENTER RFW Lot: 9109L758

Instrument ID: 1050W Calibration Date: 09/25/91 Time: 1251

Lab File ID: W092505 Init. Calib. Date(s): 09/03/91 09/03/91

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) PACK

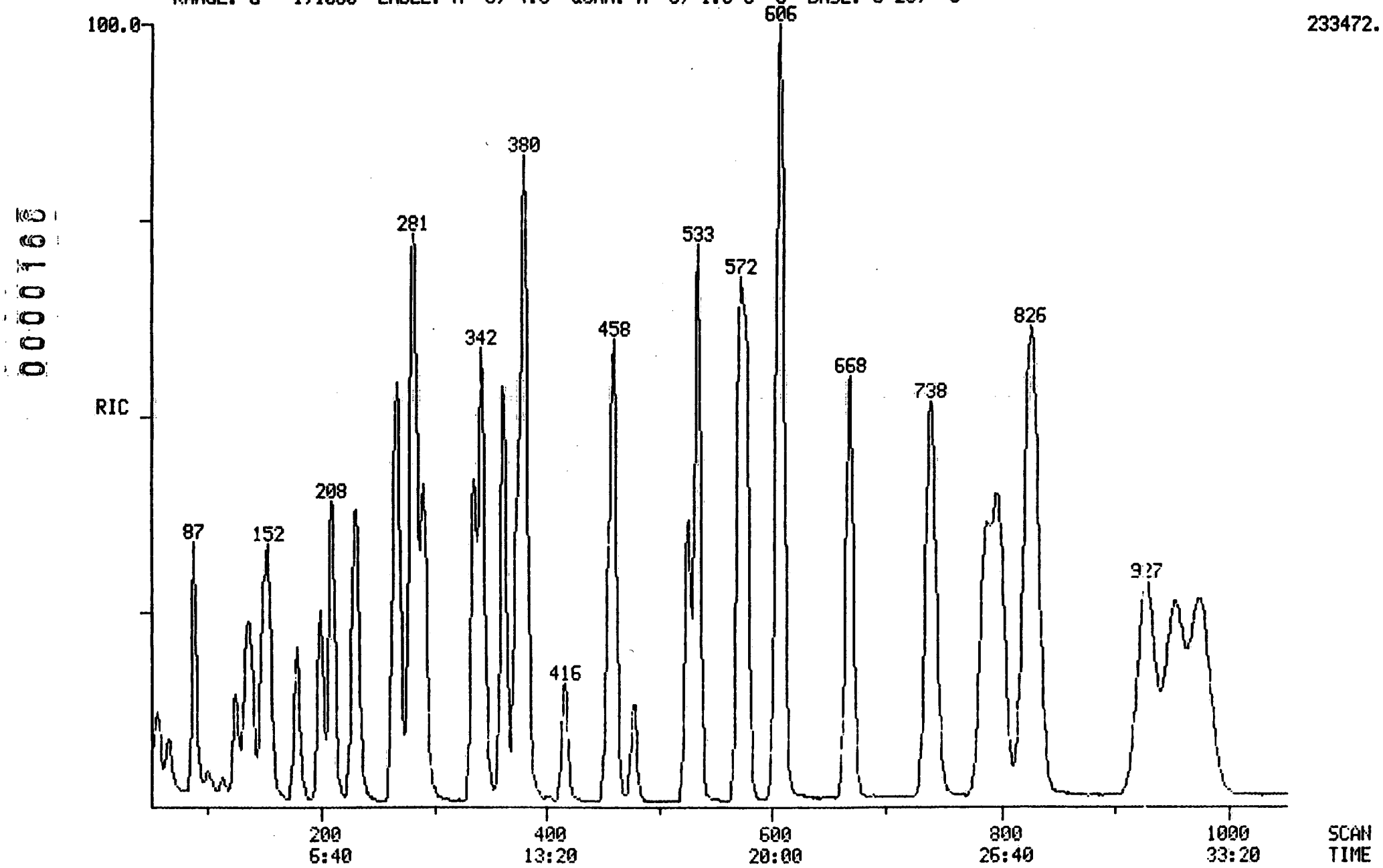
Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform Max %D for CCC(*) = 25.0%

COMPOUND		RRF	RRF50	%D	
Chloromethane	#	0.719	1.029	-43.1	# ✓
Bromomethane		1.018	1.323	-30.0	
Vinyl Chloride	*	1.093	1.159	-6.0	* ✓
Chloroethane		0.650	0.753	-15.8	
Methylene Chloride		1.132	1.305	-15.3	
1,1-Dichloroethene	*	1.021	1.100	-7.7	* ✓
1,1-Dichloroethane	#	2.230	2.259	-1.3	# ✓
1,2-Dichloroethene (total)		1.105	1.216	-10.0	
Chloroform	*	2.630	2.679	-1.9	* ✓
1,2-Dichloroethane		2.440	2.344	3.9	
1,1,1-Trichloroethane		0.598	0.567	5.2	
Carbon Tetrachloride		0.612	0.574	6.2	
Bromodichloromethane		0.547	0.512	6.4	
1,2-Dichloropropane	*	0.313	0.299	4.5	* ✓
cis-1,3-Dichloropropene		0.421	0.395	6.2	
Trichloroethene		0.457	0.433	5.3	
Dibromochloromethane		0.535	0.440	17.8	
1,1,2-Trichloroethane		0.274	0.275	-0.4	
Benzene		0.742	0.805	-8.5	
Trans-1,3-Dichloropropene		0.420	0.405	3.6	
2-chloroethylvinylether		0.134	0.161	-20.1	
Bromoform	#	0.443	0.298	32.7	# ✓
Tetrachloroethene		0.450	0.417	7.3	
1,1,2,2-Tetrachloroethane	#	0.372	0.350	5.9	# ✓
Toluene	*	0.586	0.597	-1.9	* ✓
Chlorobenzene	#	0.813	0.825	-1.5	# ✓
Ethylbenzene	*	0.397	0.398	-0.3	* ✓
1,2-Dichlorobenzene		0.934	0.790	15.4	
1,3-Dichlorobenzene		0.970	0.846	12.8	
1,4-Dichlorobenzene		1.013	0.891	12.0	
Acrolein		0.130	0.087	33.1	
Acrylonitrile		0.275	0.229	16.7	
Trichlorofluoromethane		3.336	3.685	-10.5	
Xylene (total)		0.425	0.418	1.6	
Toluene-d8		1.056	1.087	-2.9	
Bromofluorobenzene		0.791	0.815	-3.0	
1,2-Dichloroethane-d4		2.742	2.672	2.6	

RIC
09/25/91 12:51:00
SAMPLE: VSTD50 LOW WATER CCL
CONDS.: 1050W, VO, METHOD 2
RANGE: G 1,1050 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: W092505 #1
CALI: W092505 #2

SCANS 50 TO 1050



000016

Quantitation Report File: W092505

Data: W092505.TI
09/25/91 12:51:00
Sample: VSTD50 LOW WATER CCL
Conds.: 1050W, VO, METHOD 2
Formula: W092504 Instrument: 1050W Weight: 0.041
Submitted by: Analyst: PSS Acct. No.: 082291

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	IS1	BROMOCHLOROMETHANE	INTERNAL STANDARD #1
2	SS1	1,2-DICHLOROETHANE D4	SURROGATE STANDARD#1
3	45V	CHLOROMETHANE	
4	46V	BROMOMETHANE	
5	88V	VINYL CHLORIDE	
6	16V	CHLOROETHANE	
7	44V	METHYLENE CHLORIDE	
8	13H	ACETONE	
9	21H	ACROLEIN	
10	15H	CARBON DISULFIDE	
11	24H	TRICHLOROFLUOROMETHANE	
12	22H	ACRYLONITRILE	
13	29V	1,1-DICHLOROETHYLENE	
14	13V	1,1-DICHLOROETHANE	
15		1,2-DICHLOROETHENE (TOTAL)	
16	23V	CHLOROFORM	
17	10V	1,2-DICHLOROETHANE	
18	IS2	1,4-DIFLUOROBENZENE	INTERNAL STANDARD #2
19	14H	2-BUTANONE	
20	11V	1,1,1-TRICHLOROETHANE	
21	6V	CARBON TETRACHLORIDE	
22	19H	VINYL ACETATE	
23	48V	BROMODICHLOROMETHANE	
24	32V	1,2-DICHLOROPROPANE	
25	33VC	CIS-1,3-DICHLOROPROPENE	
26		TRICHLOROETHYLENE	
27	51V	DIBROMOCHLOROMETHANE	
28	14V	1,1,2-TRICHLOROETHANE	
29	4V	BENZENE	
30	33VT	TRANS-1,3-DICHLOROPROPENE	
31		2-CHLOROETHYLVINYLETHER	
32	47V	BROMOFORM	
33	IS3	CHLOROBENZENE D5	INTERNAL STANDARD #3
34	SS2	TOLUENE D8	SURROGATE STANDARD #2
35	SS3	4-BROMOFLUOROBENZENE	SURROGATE STANDARD #3
36	17H	4-METHYL-2-PENTANONE	
37	16H	2-HEXANONE	
38	85V	TETRACHLOROETHYLENE	
39	15V	1,1,2,2-TETRACHLOROETHANE	
40	86V	TOLUENE	
41	7V	CHLOROBENZENE	
42	38V	ETHYLBENZENE	
43	18H	STYRENE	
44		XYLENES (TOTAL)	
45	26B	1,3-DICHLOROBENZENE	
46	25B	1,2-DICHLOROBENZENE	
47	27B	1,4-DICHLOROBENZENE	

No	Name
48	XYLENES
49	METHYL-T-BUTYLETHER
50	DIETHYLETHER

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	152	5:04	1	1.000	A BB	46820.	50.000 UG/L	1.89
2	65	228	7:36	1	1.500	A BB	125084.	50.000 UG/L	1.89
3	50	37	1:14	1	0.243	A BB	48196.	50.000 UG/L	1.89
4	94	47	1:34	1	0.309	A BB	61924.	50.000 UG/L	1.89
5	62	56	1:52	1	0.368	A BB	54283.	50.000 UG/L	1.89
6	64	65	2:10	1	0.428	A VB	35257.	50.000 UG/L	1.89
7	84	87	2:54	1	0.572	A BB	61104.	50.000 UG/L	1.89
8	43	100	3:20	1	0.658	A BB	14640.	50.000 UG/L	1.89
9	56	102	3:24	1	0.671	A BB	4051.	50.000 UG/L	1.89
10	76	124	4:08	1	0.816	A BB	120453.	50.000 UG/L	1.89
11	101	135	4:30	1	0.888	A BB	172517.	50.000 UG/L	1.89
12	53	113	3:46	1	0.743	A BB	10744.	50.000 UG/L	1.89
13	96	148	4:56	1	0.974	A BB	51517.	50.000 UG/L	1.89
14	63	177	5:54	1	1.164	A BB	105774.	50.000 UG/L	1.89
15	96	198	6:36	1	1.303	A BB	56917.	50.000 UG/L	1.89
16	83	208	6:56	1	1.368	A BB	125410.	50.000 UG/L	1.89
17	62	231	7:42	1	1.520	A BB	109763.	50.000 UG/L	1.89
18	114	458	15:16	18	1.000	A BB	271385.	50.000 UG/L	1.89
19	72	232	7:44	1	1.526	A BB	4541.	50.000 UG/L	1.89
20	97	268	8:56	18	0.585	A BB	153796.	50.000 UG/L	1.89
21	117	279	9:18	18	0.609	A VB	155659.	50.000 UG/L	1.89
22	43	288	9:36	18	0.629	A BB	120556.	50.000 UG/L	1.89
23	83	291	9:42	18	0.635	A BB	139048.	50.000 UG/L	1.89
24	63	335	11:10	18	0.731	A BB	81111.	50.000 UG/L	1.89
25	75	342	11:24	18	0.747	A BB	173865.	81.000 UG/L	3.06
26	130	361	12:02	18	0.788	A BB	117533.	50.000 UG/L	1.89
27	129	373	12:26	18	0.814	A BB	119373.	50.000 UG/L	1.89
28	97	379	12:38	18	0.828	A BB	74749.	50.000 UG/L	1.89
29	78	380	12:40	18	0.830	A BB	218341.	50.000 UG/L	1.89
30	75	381	12:42	18	0.832	A BB	41806.	19.000 UG/L	0.72
31	63	416	13:52	18	0.908	A BB	43746.	50.000 UG/L	1.89
32	173	454	15:08	18	0.991	A BB	80983.	50.000 UG/L	1.89
33	117	604	20:08	33	1.000	A BB	267805.	50.000 UG/L	1.89
34	98	571	19:02	33	0.945	A BB	291234.	50.000 UG/L	1.89
35	95	738	24:36	33	1.222	A BB	218290.	50.000 UG/L	1.89
36	43	477	15:54	33	0.790	A BB	66619.	50.000 UG/L	1.89
37	43	524	17:28	33	0.868	A BB	53368.	50.000 UG/L	1.89
38	164	533	17:46	33	0.882	A BB	111692.	50.000 UG/L	1.89
39	83	525	17:30	33	0.869	A BB	93789.	50.000 UG/L	1.89
40	92	576	19:12	33	0.954	A BB	159993.	50.000 UG/L	1.89
41	112	608	20:16	33	1.007	A BB	220967.	50.000 UG/L	1.89
42	106	667	22:14	33	1.104	A BB	106535.	50.000 UG/L	1.89
43	104	786	26:12	33	1.301	A BB	181378.	50.000 UG/L	1.89
44	106	826	27:32	33	1.368	A BB	223914.	100.000 UG/L	3.77
45	146	926	30:52	33	1.533	M XX	226572.	50.000 UG/L	1.89
46	146	952	31:44	33	1.576	M XX	211672.	50.000 UG/L	1.89
47	146	972	32:24	33	1.609	M XX	238668.	50.000 UG/L	1.89
48	106	798	26:36	33	1.321	A BB	114706.	50.000 UG/L	1.89
49	73	264	8:48	1	1.737	A BB	132523.	50.000 UG/L	1.89
50	59	210	7:00	1	1.382	A VB	37538.	50.000 UG/L	1.89

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	5:04	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	7:36	1.00	1.500	1.00	50.00	50.00	2.672	2.672	1.00
3	1:14	1.00	0.243	1.00	50.00	50.00	1.029	1.029	1.00
4	1:34	1.00	0.309	1.00	50.00	50.00	1.323	1.323	1.00
5	1:52	1.00	0.368	1.00	50.00	50.00	1.159	1.159	1.00
6	2:10	1.00	0.428	1.00	50.00	50.00	0.753	0.753	1.00
7	2:54	1.00	0.572	1.00	50.00	50.00	1.305	1.305	1.00
8	3:20	1.00	0.658	1.00	50.00	50.00	0.313	0.313	1.00
9	3:24	1.00	0.671	1.00	50.00	50.00	0.087	0.087	1.00
10	4:08	1.00	0.816	1.00	50.00	50.00	2.573	2.573	1.00
11	4:30	1.00	0.888	1.00	50.00	50.00	3.685	3.685	1.00
12	3:46	1.00	0.743	1.00	50.00	50.00	0.229	0.229	1.00
13	4:56	1.00	0.974	1.00	50.00	50.00	1.100	1.100	1.00
14	5:54	1.00	1.164	1.00	50.00	50.00	2.259	2.259	1.00
15	6:36	1.00	1.303	1.00	50.00	50.00	1.216	1.216	1.00
16	6:56	1.00	1.368	1.00	50.00	50.00	2.679	2.679	1.00
17	7:42	1.00	1.520	1.00	50.00	50.00	2.344	2.344	1.00
18	15:16	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
19	7:44	1.00	1.526	1.00	50.00	50.00	0.097	0.097	1.00
20	8:56	1.00	0.585	1.00	50.00	50.00	0.567	0.567	1.00
21	9:18	1.00	0.609	1.00	50.00	50.00	0.574	0.574	1.00
22	9:36	1.00	0.629	1.00	50.00	50.00	0.444	0.444	1.00
23	9:42	1.00	0.635	1.00	50.00	50.00	0.512	0.512	1.00
24	11:10	1.00	0.731	1.00	50.00	50.00	0.299	0.299	1.00
25	11:24	1.00	0.747	1.00	81.00	81.00	0.395	0.395	1.00
26	12:02	1.00	0.788	1.00	50.00	50.00	0.433	0.433	1.00
27	12:26	1.00	0.814	1.00	50.00	50.00	0.440	0.440	1.00
28	12:38	1.00	0.828	1.00	50.00	50.00	0.275	0.275	1.00
29	12:40	1.00	0.830	1.00	50.00	50.00	0.805	0.805	1.00
30	12:42	1.00	0.832	1.00	19.00	19.00	0.405	0.405	1.00
31	13:52	1.00	0.908	1.00	50.00	50.00	0.161	0.161	1.00
32	15:08	1.00	0.991	1.00	50.00	50.00	0.298	0.298	1.00
33	20:08	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
34	19:02	1.00	0.945	1.00	50.00	50.00	1.087	1.087	1.00
35	24:36	1.00	1.222	1.00	50.00	50.00	0.815	0.815	1.00
36	15:54	1.00	0.790	1.00	50.00	50.00	0.249	0.249	1.00
37	17:28	1.00	0.868	1.00	50.00	50.00	0.199	0.199	1.00
38	17:46	1.00	0.882	1.00	50.00	50.00	0.417	0.417	1.00
39	17:30	1.00	0.869	1.00	50.00	50.00	0.350	0.350	1.00
40	19:12	1.00	0.954	1.00	50.00	50.00	0.597	0.597	1.00
41	20:16	1.00	1.007	1.00	50.00	50.00	0.825	0.825	1.00
42	22:14	1.00	1.104	1.00	50.00	50.00	0.398	0.398	1.00
43	26:12	1.00	1.301	1.00	50.00	50.00	0.677	0.677	1.00
44	27:32	1.00	1.368	1.00	100.00	100.00	0.418	0.418	1.00
45	30:52	1.00	1.533	1.00	50.00	50.00	0.846	0.846	1.00
46	31:44	1.00	1.576	1.00	50.00	50.00	0.790	0.790	1.00
47	32:24	1.00	1.609	1.00	50.00	50.00	0.891	0.891	1.00
48	26:36	1.00	1.321	1.00	50.00	50.00	0.428	0.428	1.00
49	8:48	1.00	1.737	1.00	50.00	50.00	2.830	2.830	1.00
50	7:00	1.00	1.382	1.00	50.00	50.00	0.802	0.802	1.00

Quantitation Report File: W092505

Data: W092505.TI
09/25/91 12:51:00
Sample: VSTD50 LOW WATER CCL
Conds.: 1050W, VO, METHOD 2
Formula: W092504 Instrument: 1050W Weight: 0.041
Submitted by: Analyst: PSS Acct. No.: 082291

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
51	T-BUTYL ALCOHOL
52	CYCLOHEXANE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	59	182	6:04	1	1.197	A BB	4713.	50.000 UG/L	1.89
52	84	282	9:24	1	1.855	A BB	137134.	50.000 UG/L	1.89

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	6:04	1.00	1.197	1.00	50.00	50.00	0.101	0.101	1.00
52	9:24	1.00	1.855	1.00	50.00	50.00	2.929	2.929	1.00

6A

VOLATILE ORGANICS INTITIAL CALIBRATION DATA

Lab Name: Roy F. Weston, Inc. Contract: 3600-04-90-0000

Case No.: WSI-LE CARPENTER RFW Lot: 9109L758

Instrument ID: 1050W Calibration Date(s): 09/03/91 09/03/91

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) PACK

Min $\overline{RRF}$ for SPCC(#) = 0.300 (0.250 for Bromoform) Max %RSD for CCC(*) = 30.0%

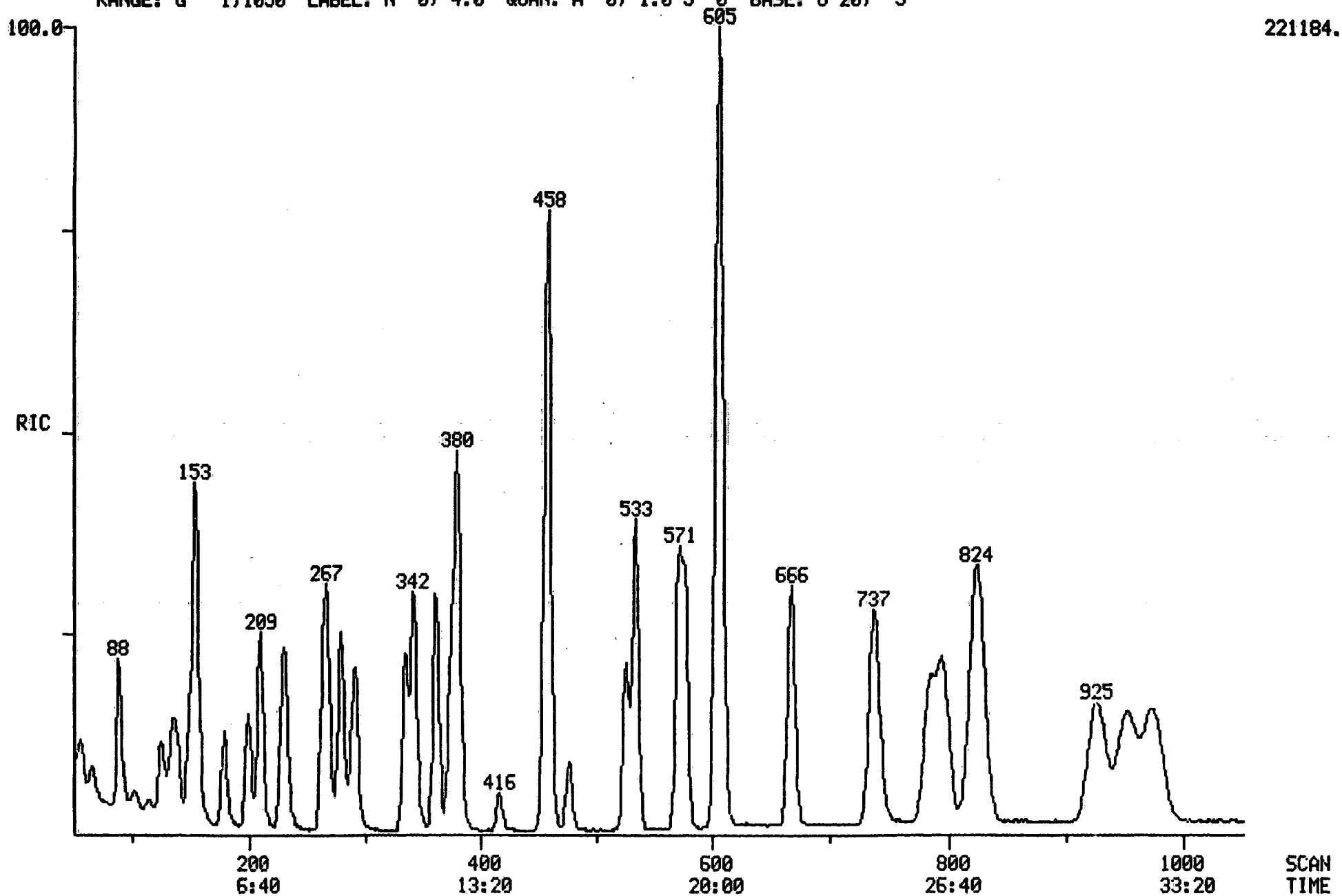
LAB FILE ID: RRF20 = W090309 RRF50 = W090310
RRF100= W090311 RRF150= W090312 RRF200= W090313

COMPOUND	RRF20	RRF50	RRF100	RRF150	RRF200	$\overline{RRF}$	% RSD
Chloromethane #	1.023	0.831	0.640	0.556	0.544	0.719	28.5# ✓
Bromomethane	1.210	1.150	1.044	0.874	0.810	1.018	16.9
Vinyl Chloride *	1.278	1.182	1.114	0.965	0.924	1.093	13.5* ✓
Chloroethane	0.835	0.655	0.618	0.574	0.569	0.650	16.8
Methylene Chloride	1.359	1.139	1.083	1.036	1.044	1.132	11.8
1,1-Dichloroethene *	1.113	1.016	1.002	0.963	1.011	1.021	5.4* ✓
1,1-Dichloroethane #	2.348	2.212	2.225	2.150	2.214	2.230	3.2# ✓
1,2-Dichloroethene (total)	1.197	1.133	1.070	1.046	1.079	1.105	5.5
Chloroform *	2.776	2.548	2.587	2.681	2.558	2.630	3.7* ✓
1,2-Dichloroethane	2.502	2.394	2.485	2.417	2.402	2.440	2.0
1,1,1-Trichloroethane	0.656	0.603	0.588	0.570	0.573	0.598	5.9
Carbon Tetrachloride	0.673	0.619	0.606	0.580	0.583	0.612	6.2
Bromodichloromethane	0.571	0.542	0.549	0.541	0.534	0.547	2.6
1,2-Dichloropropane *	0.313	0.308	0.315	0.314	0.314	0.313	0.9* ✓
cis-1,3-Dichloropropene	0.400	0.416	0.433	0.429	0.425	0.421	3.1
Trichloroethene	0.478	0.451	0.454	0.456	0.447	0.457	2.6
Dibromochloromethane	0.555	0.522	0.547	0.533	0.517	0.535	3.0
1,1,2-Trichloroethane	0.295	0.281	0.276	0.266	0.252	0.274	5.9
Benzene	0.820	0.757	0.736	0.704	0.691	0.742	6.9
Trans-1,3-Dichloropropene	0.408	0.405	0.428	0.429	0.429	0.420	2.9
2-chloroethylvinylether	0.091	0.123	0.143	0.142	0.171	0.134	22.0
Bromoform #	0.408	0.421	0.458	0.465	0.465	0.443	6.1# ✓
Tetrachloroethene	0.470	0.452	0.449	0.434	0.444	0.450	2.9
1,1,2,2-Tetrachloroethane #	0.398	0.372	0.375	0.363	0.352	0.372	4.6# ✓
Toluene *	0.628	0.592	0.589	0.559	0.561	0.586	4.8* ✓
Chlorobenzene #	0.879	0.809	0.809	0.782	0.785	0.813	4.8# ✓
Ethylbenzene *	0.417	0.394	0.396	0.385	0.393	0.397	3.0* ✓
1,2-Dichlorobenzene	0.901	0.924	0.966	0.937	0.942	0.934	2.6
1,3-Dichlorobenzene	0.947	0.948	0.968	0.987	0.999	0.970	2.4
1,4-Dichlorobenzene	1.040	0.949	1.028	1.041	1.007	1.013	3.8
Acrolein	0.125	0.131	0.131	0.132	0.131	0.130	2.2
Acrylonitrile	0.268	0.284	0.293	0.264	0.267	0.275	4.6
Trichlorofluoromethane	3.654	3.425	3.263	3.096	3.244	3.336	6.4
Xylene (total)	0.429	0.421	0.425	0.423	0.427	0.425	0.7
Toluene-d8	1.094	1.066	1.041	1.053	1.025	1.056	2.5
Bromofluorobenzene	0.790	0.783	0.786	0.805	0.791	0.791	1.1
1,2-Dichloroethane-d4	2.758	2.696	2.734	2.807	2.713	2.742	1.6

RIC
09/03/91 16:05:00
SAMPLE: VSTD20 LOW WATER ICL
CONDS.: 1050W, VO, METHOD 2
RANGE: G 1,1050 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: W090309 #1
CALI: W090309 #2

SCANS 50 TO 1050



0000172

Quantitation Report File: W090309

Data: W090309.TI
09/03/91 16:05:00
Sample: VSTD20 LOW WATER ICL
Conds.: 1050W, VO, METHOD 2
Formula: W090308 Instrument: 1050W Weight: 0.018
Submitted by: Analyst: PSS Acct. No.: 082291

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	IS1	BROMOCHLOROMETHANE	INTERNAL STANDARD #1
2	SS1	1,2-DICHLOROETHANE D4	SURROGATE STANDARD#1
3	45V	CHLOROMETHANE	
4	46V	BROMOMETHANE	
5	88V	VINYL CHLORIDE	
6	16V	CHLOROETHANE	
7	44V	METHYLENE CHLORIDE	
8	13H	ACETONE	
9	21H	ACROLEIN	
10	15H	CARBON DISULFIDE	
11	24H	TRICHLOROFLUOROMETHANE	
12	22H	ACRYLONITRILE	
13	29V	1,1-DICHLOROETHYLENE	
14	13V	1,1-DICHLOROETHANE	
15		1,2-DICHLOROETHENE (TOTAL)	
16	23V	CHLOROFORM	
17	10V	1,2-DICHLOROETHANE	
18	IS2	1,4-DIFLUOROBENZENE	INTERNAL STANDARD #2
19	14H	2-BUTANONE	
20	11V	1,1,1-TRICHLOROETHANE	
21	6V	CARBON TETRACHLORIDE	
22	19H	VINYL ACETATE	
23	48V	BROMODICHLOROMETHANE	
24	32V	1,2-DICHLOROPROPANE	
25	33VC	CIS-1,3-DICHLOROPROPENE	
26		TRICHLOROETHYLENE	
27	51V	DIBROMOCHLOROMETHANE	
28	14V	1,1,2-TRICHLOROETHANE	
29	4V	BENZENE	
30	33VT	TRANS-1,3-DICHLOROPROPENE	
31		2-CHLOROETHYLVINYLETHER	
32	47V	BROMOFORM	
33	IS3	CHLOROBENZENE D5	INTERNAL STANDARD #3
34	SS2	TOLUENE D8	SURROGATE STANDARD #2
35	SS3	4-BROMOFLUOROBENZENE	SURROGATE STANDARD #3
36	17H	4-METHYL-2-PENTANONE	
37	16H	2-HEXANONE	
38	85V	TETRACHLOROETHYLENE	
39	15V	1,1,2,2-TETRACHLOROETHANE	
40	86V	TOLUENE	
41	7V	CHLOROBENZENE	
42	38V	ETHYLBENZENE	
43	18H	STYRENE	
44		XYLENES (TOTAL)	
45	26B	1,3-DICHLOROBENZENE	
46	25B	1,2-DICHLOROBENZENE	
47	27B	1,4-DICHLOROBENZENE	

No	Name
48	XYLENES
49	METHYL-T-BUTYLETHER
50	DIETHYLETHER

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	153	5:06	1	1.000	A BB	69596.	50.000 UG/L	4.42
2	65	229	7:38	1	1.497	A BB	76765.	20.000 UG/L	1.77
3	50	37	1:14	1	0.242	A BB	28485.	20.000 UG/L	1.77
4	94	48	1:36	1	0.314	A BB	33686.	20.000 UG/L	1.77
5	62	56	1:52	1	0.366	A BB	35581.	20.000 UG/L	1.77
6	64	65	2:10	1	0.425	A VB	23252.	20.000 UG/L	1.77
7	84	88	2:56	1	0.575	A BB	37837.	20.000 UG/L	1.77
8	43	101	3:22	1	0.660	A BB	14070.	20.000 UG/L	1.77
9	56	102	3:24	1	0.667	A BB	3483.	20.000 UG/L	1.77
10	76	124	4:08	1	0.810	A BB	87629.	20.000 UG/L	1.77
11	101	136	4:32	1	0.889	A BB	101717.	20.000 UG/L	1.77
12	53	113	3:46	1	0.739	A BB	7474.	20.000 UG/L	1.77
13	96	148	4:56	1	0.967	A BB	30988.	20.000 UG/L	1.77
14	63	178	5:56	1	1.163	A BB	65370.	20.000 UG/L	1.77
15	96	198	6:36	1	1.294	A BB	33312.	20.000 UG/L	1.77
16	83	209	6:58	1	1.366	A BB	77287.	20.000 UG/L	1.77
17	62	231	7:42	1	1.510	A BB	69649.	20.000 UG/L	1.77
18	114	458	15:16	18	1.000	A BB	359019.	50.000 UG/L	4.42
19	72	231	7:42	1	1.510	A BB	3044.	20.000 UG/L	1.77
20	97	268	8:56	18	0.585	A BB	94139.	20.000 UG/L	1.77
21	117	280	9:20	18	0.611	A VB	96607.	20.000 UG/L	1.77
22	43	288	9:36	18	0.629	A BB	45858.	20.000 UG/L	1.77
23	83	292	9:44	18	0.638	A BB	81946.	20.000 UG/L	1.77
24	63	335	11:10	18	0.731	A BB	44994.	20.000 UG/L	1.77
25	75	342	11:24	18	0.747	A BB	98284.	34.200 UG/L	3.02
26	130	361	12:02	18	0.788	A BV	68625.	20.000 UG/L	1.77
27	129	374	12:28	18	0.817	A BB	79686.	20.000 UG/L	1.77
28	97	379	12:38	18	0.828	A BB	42338.	20.000 UG/L	1.77
29	78	380	12:40	18	0.830	A BB	117760.	20.000 UG/L	1.77
30	75	381	12:42	18	0.832	A BB	22277.	7.600 UG/L	0.67
31	63	416	13:52	18	0.908	A BB	13099.	20.000 UG/L	1.77
32	173	454	15:08	18	0.991	A BB	58580.	20.000 UG/L	1.77
33	117	604	20:08	33	1.000	A BB	347457.	50.000 UG/L	4.42
34	98	570	19:00	33	0.944	A BB	152030.	20.000 UG/L	1.77
35	95	737	24:34	33	1.220	A BB	109732.	20.000 UG/L	1.77
36	43	476	15:52	33	0.788	A BB	45728.	20.000 UG/L	1.77
37	43	524	17:28	33	0.868	A BB	31533.	20.000 UG/L	1.77
38	164	533	17:46	33	0.882	A BB	65280.	20.000 UG/L	1.77
39	83	525	17:30	33	0.869	A BB	55269.	20.000 UG/L	1.77
40	92	576	19:12	33	0.954	A BB	87228.	20.000 UG/L	1.77
41	112	608	20:16	33	1.007	A BB	122129.	20.000 UG/L	1.77
42	106	666	22:12	33	1.103	A BB	57918.	20.000 UG/L	1.77
43	104	785	26:10	33	1.300	A BB	97269.	20.000 UG/L	1.77
44	106	824	27:28	33	1.364	A BB	119190.	40.000 UG/L	3.53
45	146	925	30:50	33	1.531	M XX	131663.	20.000 UG/L	1.77
46	146	952	31:44	33	1.576	M XX	125204.	20.000 UG/L	1.77
47	146	973	32:26	33	1.611	M XX	144596.	20.000 UG/L	1.77
48	106	796	26:32	33	1.318	A BB	61722.	20.000 UG/L	1.77
49	73	264	8:48	1	1.725	A BB	90706.	20.000 UG/L	1.77
50	59	210	7:00	1	1.373	A VB	23974.	20.000 UG/L	1.77

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	5:06	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	7:38	1.00	1.497	1.00	20.00	20.00	2.758	2.758	1.00
3	1:14	1.00	0.242	1.00	20.00	20.00	1.023	1.023	1.00
4	1:36	1.00	0.314	1.00	20.00	20.00	1.210	1.210	1.00
5	1:52	1.00	0.366	1.00	20.00	20.00	1.278	1.278	1.00
6	2:10	1.00	0.425	1.00	20.00	20.00	0.835	0.835	1.00
7	2:56	1.00	0.575	1.00	20.00	20.00	1.359	1.359	1.00
8	3:22	1.00	0.660	1.00	20.00	20.00	0.505	0.505	1.00
9	3:24	1.00	0.667	1.00	20.00	20.00	0.125	0.125	1.00
10	4:08	1.00	0.810	1.00	20.00	20.00	3.148	3.148	1.00
11	4:32	1.00	0.889	1.00	20.00	20.00	3.654	3.654	1.00
12	3:46	1.00	0.739	1.00	20.00	20.00	0.268	0.268	1.00
13	4:56	1.00	0.967	1.00	20.00	20.00	1.113	1.113	1.00
14	5:56	1.00	1.163	1.00	20.00	20.00	2.348	2.348	1.00
15	6:36	1.00	1.294	1.00	20.00	20.00	1.197	1.197	1.00
16	6:58	1.00	1.366	1.00	20.00	20.00	2.776	2.776	1.00
17	7:42	1.00	1.510	1.00	20.00	20.00	2.502	2.502	1.00
18	15:16	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
19	7:42	1.00	1.510	1.00	20.00	20.00	0.109	0.109	1.00
20	8:56	1.00	0.585	1.00	20.00	20.00	0.656	0.656	1.00
21	9:20	1.00	0.611	1.00	20.00	20.00	0.673	0.673	1.00
22	9:36	1.00	0.629	1.00	20.00	20.00	0.319	0.319	1.00
23	9:44	1.00	0.638	1.00	20.00	20.00	0.571	0.571	1.00
24	11:10	1.00	0.731	1.00	20.00	20.00	0.313	0.313	1.00
25	11:24	1.00	0.747	1.00	34.20	34.20	0.400	0.400	1.00
26	12:02	1.00	0.788	1.00	20.00	20.00	0.478	0.478	1.00
27	12:28	1.00	0.817	1.00	20.00	20.00	0.555	0.555	1.00
28	12:38	1.00	0.828	1.00	20.00	20.00	0.295	0.295	1.00
29	12:40	1.00	0.830	1.00	20.00	20.00	0.820	0.820	1.00
30	12:42	1.00	0.832	1.00	7.60	7.60	0.408	0.408	1.00
31	13:52	1.00	0.908	1.00	20.00	20.00	0.091	0.091	1.00
32	15:08	1.00	0.991	1.00	20.00	20.00	0.408	0.408	1.00
33	20:08	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
34	19:00	1.00	0.944	1.00	20.00	20.00	1.094	1.094	1.00
35	24:34	1.00	1.220	1.00	20.00	20.00	0.790	0.790	1.00
36	15:52	1.00	0.788	1.00	20.00	20.00	0.329	0.329	1.00
37	17:28	1.00	0.868	1.00	20.00	20.00	0.227	0.227	1.00
38	17:46	1.00	0.882	1.00	20.00	20.00	0.470	0.470	1.00
39	17:30	1.00	0.869	1.00	20.00	20.00	0.398	0.398	1.00
40	19:12	1.00	0.954	1.00	20.00	20.00	0.628	0.628	1.00
41	20:16	1.00	1.007	1.00	20.00	20.00	0.879	0.879	1.00
42	22:12	1.00	1.103	1.00	20.00	20.00	0.417	0.417	1.00
43	26:10	1.00	1.300	1.00	20.00	20.00	0.700	0.700	1.00
44	27:28	1.00	1.364	1.00	40.00	40.00	0.429	0.429	1.00
45	30:50	1.00	1.531	1.00	20.00	20.00	0.947	0.947	1.00
46	31:44	1.00	1.576	1.00	20.00	20.00	0.901	0.901	1.00
47	32:26	1.00	1.611	1.00	20.00	20.00	1.040	1.040	1.00
48	26:32	1.00	1.318	1.00	20.00	20.00	0.444	0.444	1.00
49	8:48	1.00	1.725	1.00	20.00	20.00	3.258	3.258	1.00
50	7:00	1.00	1.373	1.00	20.00	20.00	0.861	0.861	1.00

Quantitation Report File: W090309

Data: W090309.TI
09/03/91 16:05:00
Sample: VSTD20 LOW WATER ICL
Conds.: 1050W, VO, METHOD 2
Formula: W090308 Instrument: 1050W Weight: 0.018
Submitted by: Analyst: PSS Acct. No.: 082291

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
51	T-BUTYL ALCOHOL

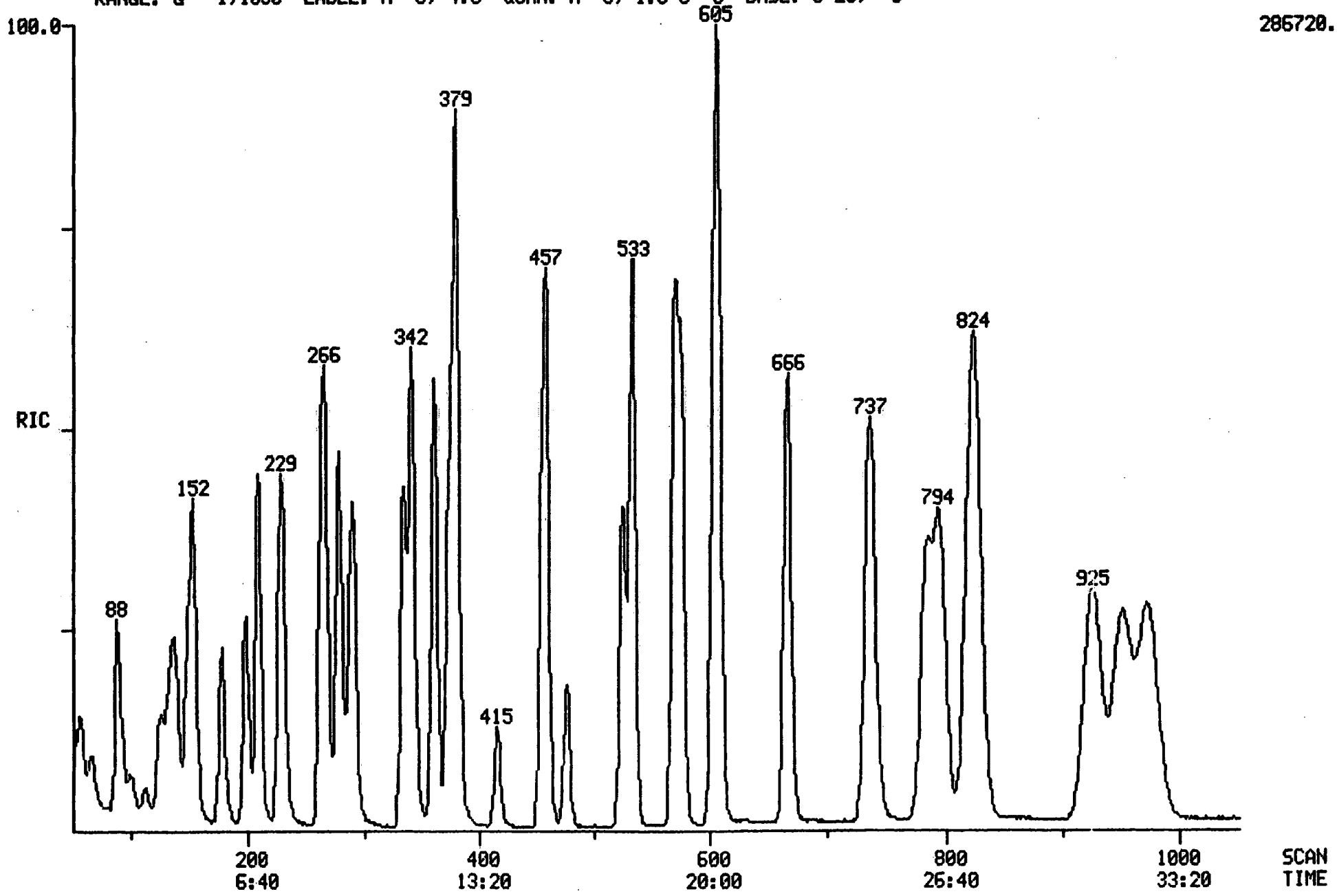
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	59	185	6:10	1	1.209	A BB	3853.	20.000 UG/L	1.77

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	6:10	1.00	1.209	1.00	20.00	20.00	0.138	0.138	1.00

RIC
09/03/91 16:46:00
SAMPLE: VSTD50 LOW WATER ICL
CONDS.: 1050W, VO, METHOD 2
RANGE: G 1,1050 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: W090310 #1
CALI: W090310 #2

SCANS 50 TO 1050



00001177

Quantitation Report File: W090310

Data: W090310.TI
09/03/91 16:46:00
Sample: VSTD50 LOW WATER ICL
Conds.: 1050W, VO, METHOD 2
Formula: W090308 Instrument: 1050W Weight: 0.018
Submitted by: Analyst: PSS Acct. No.: 082291

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	IS1	BROMOCHLOROMETHANE	INTERNAL STANDARD #1
2	SS1	1,2-DICHLOROETHANE D4	SURROGATE STANDARD#1
3	45V	CHLOROMETHANE	
4	46V	BROMOMETHANE	
5	88V	VINYL CHLORIDE	
6	16V	CHLOROETHANE	
7	44V	METHYLENE CHLORIDE	
8	13H	ACETONE	
9	21H	ACROLEIN	
10	15H	CARBON DISULFIDE	
11	24H	TRICHLOROFLUOROMETHANE	
12	22H	ACRYLONITRILE	
13	29V	1,1-DICHLOROETHYLENE	
14	13V	1,1-DICHLOROETHANE	
15		1,2-DICHLOROETHENE (TOTAL)	
16	23V	CHLOROFORM	
17	10V	1,2-DICHLOROETHANE	
18	IS2	1,4-DIFLUOROBENZENE	INTERNAL STANDARD #2
19	14H	2-BUTANONE	
20	11V	1,1,1-TRICHLOROETHANE	
21	6V	CARBON TETRACHLORIDE	
22	19H	VINYL ACETATE	
23	48V	BROMODICHLOROMETHANE	
24	32V	1,2-DICHLOROPROPANE	
25	33VC	CIS-1,3-DICHLOROPROPENE	
26		TRICHLOROETHYLENE	
27	51V	DIBROMOCHLOROMETHANE	
28	14V	1,1,2-TRICHLOROETHANE	
29	4V	BENZENE	
30	33VT	TRANS-1,3-DICHLOROPROPENE	
31		2-CHLOROETHYLVINYLETHER	
32	47V	BROMOFORM	
33	IS3	CHLOROBENZENE D5	INTERNAL STANDARD #3
34	SS2	TOLUENE D8	SURROGATE STANDARD #2
35	SS3	4-BROMOFLUOROBENZENE	SURROGATE STANDARD #3
36	17H	4-METHYL-2-PENTANONE	
37	16H	2-HEXANONE	
38	85V	TETRACHLOROETHYLENE	
39	15V	1,1,2,2-TETRACHLOROETHANE	
40	86V	TOLUENE	
41	7V	CHLOROBENZENE	
42	38V	ETHYLBENZENE	
43	18H	STYRENE	
44		XYLENES (TOTAL)	
45	26B	1,3-DICHLOROBENZENE	
46	25B	1,2-DICHLOROBENZENE	
47	27B	1,4-DICHLOROBENZENE	

No	Name
48	XYLENES
49	METHYL-T-BUTYLETHER
50	DIETHYLETHER

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	152	5:04	1	1.000	A BB	69614.	50.000 UG/L	1.92
2	65	228	7:36	1	1.500	A BB	187713.	50.000 UG/L	1.92
3	50	39	1:18	1	0.257	A BB	57874.	50.000 UG/L	1.92
4	94	48	1:36	1	0.316	A BB	80064.	50.000 UG/L	1.92
5	62	56	1:52	1	0.368	A BB	82267.	50.000 UG/L	1.92
6	64	66	2:12	1	0.434	A VB	45573.	50.000 UG/L	1.92
7	84	88	2:56	1	0.579	A BB	79263.	50.000 UG/L	1.92
8	43	99	3:18	1	0.651	A BB	25481.	50.000 UG/L	1.92
9	56	101	3:22	1	0.664	A BB	9133.	50.000 UG/L	1.92
10	76	125	4:10	1	0.822	A BB	201885.	50.000 UG/L	1.92
11	101	136	4:32	1	0.895	A BB	238432.	50.000 UG/L	1.92
12	53	112	3:44	1	0.737	A BB	19746.	50.000 UG/L	1.92
13	96	148	4:56	1	0.974	A BB	70695.	50.000 UG/L	1.92
14	63	177	5:54	1	1.164	A BB	153967.	50.000 UG/L	1.92
15	96	197	6:34	1	1.296	A BB	78886.	50.000 UG/L	1.92
16	83	208	6:56	1	1.368	A BB	177397.	50.000 UG/L	1.92
17	62	231	7:42	1	1.520	A BB	166673.	50.000 UG/L	1.92
18	114	458	15:16	18	1.000	A BB	365149.	50.000 UG/L	1.92
19	72	231	7:42	1	1.520	A BB	7820.	50.000 UG/L	1.92
20	97	268	8:56	18	0.585	A BB	220137.	50.000 UG/L	1.92
21	117	279	9:18	18	0.609	A VB	226088.	50.000 UG/L	1.92
22	43	287	9:34	18	0.627	A BB	156830.	50.000 UG/L	1.92
23	83	291	9:42	18	0.635	A BB	197789.	50.000 UG/L	1.92
24	63	335	11:10	18	0.731	A BB	112346.	50.000 UG/L	1.92
25	75	342	11:24	18	0.747	A BB	245968.	81.000 UG/L	3.12
26	130	361	12:02	18	0.788	A BV	164673.	50.000 UG/L	1.92
27	129	373	12:26	18	0.814	A BB	190709.	50.000 UG/L	1.92
28	97	378	12:36	18	0.825	A BB	102445.	50.000 UG/L	1.92
29	78	379	12:38	18	0.828	A BB	276277.	50.000 UG/L	1.92
30	75	381	12:42	18	0.832	A BB	56211.	19.000 UG/L	0.73
31	63	415	13:50	18	0.906	A BB	44915.	50.000 UG/L	1.92
32	173	454	15:08	18	0.991	A BB	153704.	50.000 UG/L	1.92
33	117	603	20:06	33	1.000	A BB	357091.	50.000 UG/L	1.92
34	98	570	19:00	33	0.945	A BB	380637.	50.000 UG/L	1.92
35	95	737	24:34	33	1.222	A BB	279584.	50.000 UG/L	1.92
36	43	476	15:52	33	0.789	A BB	114357.	50.000 UG/L	1.92
37	43	523	17:26	33	0.867	A BB	86386.	50.000 UG/L	1.92
38	164	532	17:44	33	0.882	A BB	161458.	50.000 UG/L	1.92
39	83	525	17:30	33	0.871	A BB	132814.	50.000 UG/L	1.92
40	92	575	19:10	33	0.954	A BB	211385.	50.000 UG/L	1.92
41	112	607	20:14	33	1.007	A BB	289039.	50.000 UG/L	1.92
42	106	666	22:12	33	1.104	A BB	140862.	50.000 UG/L	1.92
43	104	784	26:08	33	1.300	A BB	245287.	50.000 UG/L	1.92
44	106	824	27:28	33	1.367	A BB	300891.	100.000 UG/L	3.85
45	146	924	30:48	33	1.532	M XX	338416.	50.000 UG/L	1.92
46	146	951	31:42	33	1.577	M XX	329992.	50.000 UG/L	1.92
47	146	972	32:24	33	1.612	M XX	338765.	50.000 UG/L	1.92
48	106	796	26:32	33	1.320	A BB	154198.	50.000 UG/L	1.92
49	73	264	8:48	1	1.737	A BB	218411.	50.000 UG/L	1.92
50	59	209	6:58	1	1.375	A VB	56232.	50.000 UG/L	1.92

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	5:04	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	7:36	1.00	1.500	1.00	50.00	50.00	2.696	2.696	1.00
3	1:18	1.00	0.257	1.00	50.00	50.00	0.831	0.831	1.00
4	1:36	1.00	0.316	1.00	50.00	50.00	1.150	1.150	1.00
5	1:52	1.00	0.368	1.00	50.00	50.00	1.182	1.182	1.00
6	2:12	1.00	0.434	1.00	50.00	50.00	0.655	0.655	1.00
7	2:56	1.00	0.579	1.00	50.00	50.00	1.139	1.139	1.00
8	3:18	1.00	0.651	1.00	50.00	50.00	0.366	0.366	1.00
9	3:22	1.00	0.664	1.00	50.00	50.00	0.131	0.131	1.00
10	4:10	1.00	0.822	1.00	50.00	50.00	2.900	2.900	1.00
11	4:32	1.00	0.895	1.00	50.00	50.00	3.425	3.425	1.00
12	3:44	1.00	0.737	1.00	50.00	50.00	0.284	0.284	1.00
13	4:56	1.00	0.974	1.00	50.00	50.00	1.016	1.016	1.00
14	5:54	1.00	1.164	1.00	50.00	50.00	2.212	2.212	1.00
15	6:34	1.00	1.296	1.00	50.00	50.00	1.133	1.133	1.00
16	6:56	1.00	1.368	1.00	50.00	50.00	2.548	2.548	1.00
17	7:42	1.00	1.520	1.00	50.00	50.00	2.394	2.394	1.00
18	15:16	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
19	7:42	1.00	1.520	1.00	50.00	50.00	0.112	0.112	1.00
20	8:56	1.00	0.585	1.00	50.00	50.00	0.603	0.603	1.00
21	9:18	1.00	0.609	1.00	50.00	50.00	0.619	0.619	1.00
22	9:34	1.00	0.627	1.00	50.00	50.00	0.429	0.429	1.00
23	9:42	1.00	0.635	1.00	50.00	50.00	0.542	0.542	1.00
24	11:10	1.00	0.731	1.00	50.00	50.00	0.308	0.308	1.00
25	11:24	1.00	0.747	1.00	81.00	81.00	0.416	0.416	1.00
26	12:02	1.00	0.788	1.00	50.00	50.00	0.451	0.451	1.00
27	12:26	1.00	0.814	1.00	50.00	50.00	0.522	0.522	1.00
28	12:36	1.00	0.825	1.00	50.00	50.00	0.281	0.281	1.00
29	12:38	1.00	0.828	1.00	50.00	50.00	0.757	0.757	1.00
30	12:42	1.00	0.832	1.00	19.00	19.00	0.405	0.405	1.00
31	13:50	1.00	0.906	1.00	50.00	50.00	0.123	0.123	1.00
32	15:08	1.00	0.991	1.00	50.00	50.00	0.421	0.421	1.00
33	20:06	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
34	19:00	1.00	0.945	1.00	50.00	50.00	1.066	1.066	1.00
35	24:34	1.00	1.222	1.00	50.00	50.00	0.783	0.783	1.00
36	15:52	1.00	0.789	1.00	50.00	50.00	0.320	0.320	1.00
37	17:26	1.00	0.867	1.00	50.00	50.00	0.242	0.242	1.00
38	17:44	1.00	0.882	1.00	50.00	50.00	0.452	0.452	1.00
39	17:30	1.00	0.871	1.00	50.00	50.00	0.372	0.372	1.00
40	19:10	1.00	0.954	1.00	50.00	50.00	0.592	0.592	1.00
41	20:14	1.00	1.007	1.00	50.00	50.00	0.809	0.809	1.00
42	22:12	1.00	1.104	1.00	50.00	50.00	0.394	0.394	1.00
43	26:08	1.00	1.300	1.00	50.00	50.00	0.687	0.687	1.00
44	27:28	1.00	1.366	1.00	100.00	100.00	0.421	0.421	1.00
45	30:48	1.00	1.532	1.00	50.00	50.00	0.948	0.948	1.00
46	31:42	1.00	1.577	1.00	50.00	50.00	0.924	0.924	1.00
47	32:24	1.00	1.612	1.00	50.00	50.00	0.949	0.949	1.00
48	26:32	1.00	1.320	1.00	50.00	50.00	0.432	0.432	1.00
49	8:48	1.00	1.737	1.00	50.00	50.00	3.137	3.137	1.00
50	6:58	1.00	1.375	1.00	50.00	50.00	0.808	0.808	1.00

Quantitation Report File: W090310

Data: W090310.TI
09/03/91 16:46:00
Sample: VSTD50 LOW WATER ICL
Conds.: 1050W, VO, METHOD 2
Formula: W090308 Instrument: 1050W Weight: 0.018
Submitted by: Analyst: PSS Acct. No.: 082291

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
51	T-BUTYL ALCOHOL

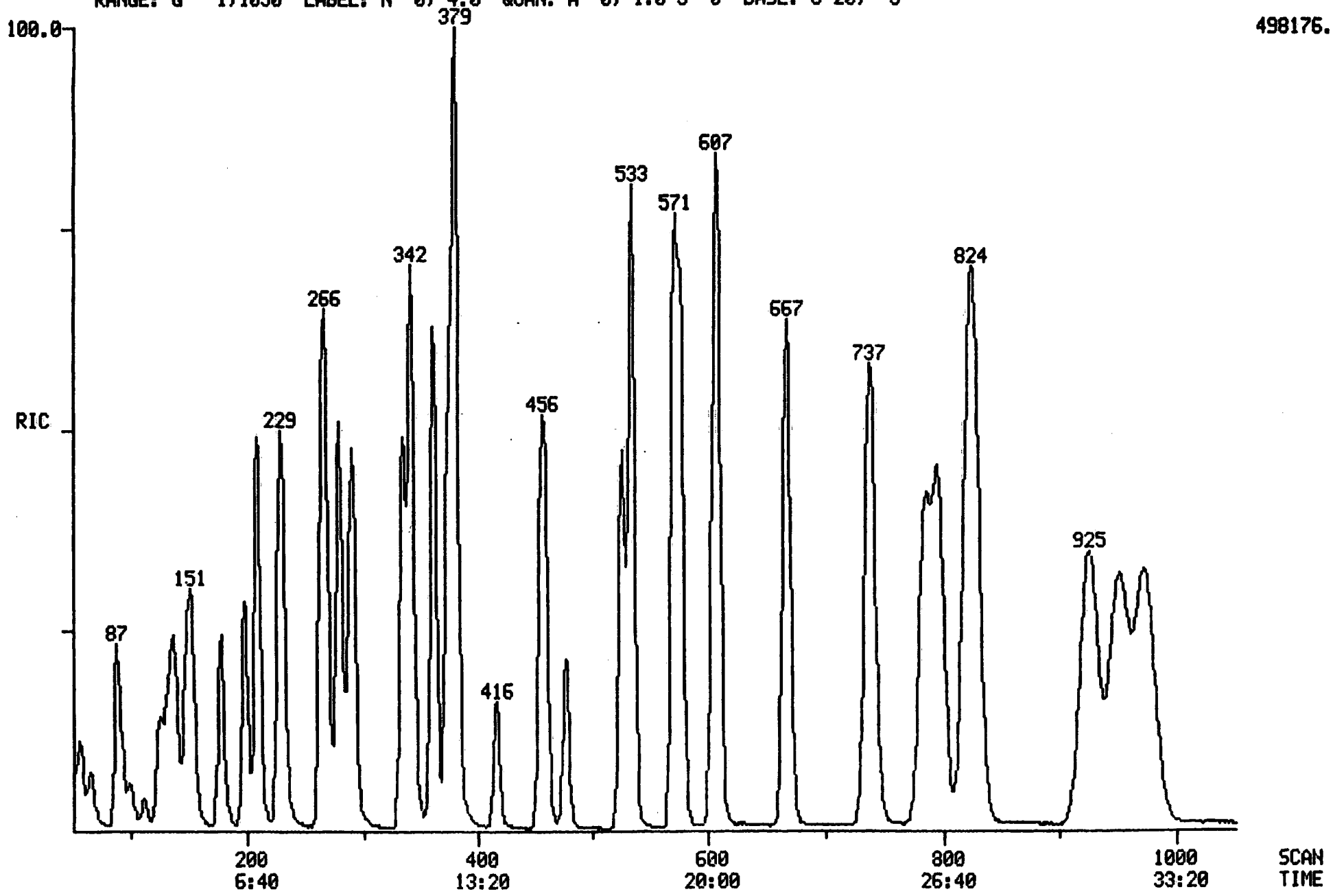
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	59	182	6:04	1	1.197	A BB	9745.	50.000 UG/L	1.92

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	6:04	1.00	1.197	1.00	50.00	50.00	0.140	0.140	1.00

RIC
09/03/91 17:25:00
SAMPLE: VSTD100 LOW WATER ICL
CONDS.: 1050W, VO, METHOD 2
RANGE: G 1,1050 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: W090311 #1
CALI: W090311 #2

SCANS 50 TO 1050



0000182

Quantitation Report File: W090311

Data: W090311.TI
09/03/91 17:25:00
Sample: VSTD100 LOW WATER ICL
Conds.: 1050W, VO, METHOD 2
Formula: W090308 Instrument: 1050W Weight: 0.019
Submitted by: Analyst: PSS Acct. No.: 082291

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	IS1	BROMOCHLOROMETHANE	INTERNAL STANDARD #1
2	SS1	1,2-DICHLOROETHANE D4	SURROGATE STANDARD#1
3	45V	CHLOROMETHANE	
4	46V	BROMOMETHANE	
5	88V	VINYL CHLORIDE	
6	16V	CHLOROETHANE	
7	44V	METHYLENE CHLORIDE	
8	13H	ACETONE	
9	21H	ACROLEIN	
10	15H	CARBON DISULFIDE	
11	24H	TRICHLOROFLUOROMETHANE	
12	22H	ACRYLONITRILE	
13	29V	1,1-DICHLOROETHYLENE	
14	13V	1,1-DICHLOROETHANE	
15		1,2-DICHLOROETHENE (TOTAL)	
16	23V	CHLOROFORM	
17	10V	1,2-DICHLOROETHANE	
18	IS2	1,4-DIFLUOROBENZENE	INTERNAL STANDARD #2
19	14H	2-BUTANONE	
20	11V	1,1,1-TRICHLOROETHANE	
21	6V	CARBON TETRACHLORIDE	
22	19H	VINYL ACETATE	
23	48V	BROMODICHLOROMETHANE	
24	32V	1,2-DICHLOROPROPANE	
25	33VC	CIS-1,3-DICHLOROPROPENE	
26		TRICHLOROETHYLENE	
27	51V	DIBROMOCHLOROMETHANE	
28	14V	1,1,2-TRICHLOROETHANE	
29	4V	BENZENE	
30	33VT	TRANS-1,3-DICHLOROPROPENE	
31		2-CHLOROETHYLVINYLETHER	
32	47V	BROMOFORM	
33	IS3	CHLOROBENZENE D5	INTERNAL STANDARD #3
34	SS2	TOLUENE D8	SURROGATE STANDARD #2
35	SS3	4-BROMOFLUOROBENZENE	SURROGATE STANDARD #3
36	17H	4-METHYL-2-PENTANONE	
37	16H	2-HEXANONE	
38	85V	TETRACHLOROETHYLENE	
39	15V	1,1,2,2-TETRACHLOROETHANE	
40	86V	TOLUENE	
41	7V	CHLOROBENZENE	
42	38V	ETHYLBENZENE	
43	18H	STYRENE	
44		XYLENES (TOTAL)	
45	26B	1,3-DICHLOROBENZENE	
46	25B	1,2-DICHLOROBENZENE	
47	27B	1,4-DICHLOROBENZENE	

No	Name
48	XYLENES
49	METHYL-T-BUTYLETHER
50	DIETHYLETHER

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	152	5:04	1	1.000	A BB	67026.	50.000 UG/L	0.99
2	65	228	7:36	1	1.500	A BB	366545.	100.000 UG/L	1.98
3	50	38	1:16	1	0.250	A BB	85839.	100.000 UG/L	1.98
4	94	48	1:36	1	0.316	A BB	139910.	100.000 UG/L	1.98
5	62	56	1:52	1	0.368	A BB	149335.	100.000 UG/L	1.98
6	64	65	2:10	1	0.428	A VB	82783.	100.000 UG/L	1.98
7	84	87	2:54	1	0.572	A BB	145192.	100.000 UG/L	1.98
8	43	99	3:18	1	0.651	A BB	51689.	100.000 UG/L	1.98
9	56	100	3:20	1	0.658	A BB	17514.	100.000 UG/L	1.98
10	76	125	4:10	1	0.822	A BB	376470.	100.000 UG/L	1.98
11	101	136	4:32	1	0.895	A BB	437457.	100.000 UG/L	1.98
12	53	111	3:42	1	0.730	A VB	39297.	100.000 UG/L	1.98
13	96	148	4:56	1	0.974	A BB	134316.	100.000 UG/L	1.98
14	63	177	5:54	1	1.164	A BB	298220.	100.000 UG/L	1.98
15	96	197	6:34	1	1.296	A BB	143381.	100.000 UG/L	1.98
16	83	208	6:56	1	1.368	A BB	346852.	100.000 UG/L	1.98
17	62	230	7:40	1	1.513	A BB	333132.	100.000 UG/L	1.98
18	114	458	15:16	18	1.000	A BB	355985.	50.000 UG/L	0.99
19	72	231	7:42	1	1.520	A BB	16559.	100.000 UG/L	1.98
20	97	268	8:56	18	0.585	A BB	418628.	100.000 UG/L	1.98
21	117	279	9:18	18	0.609	A VB	431287.	100.000 UG/L	1.98
22	43	287	9:34	18	0.627	A BB	352580.	100.000 UG/L	1.98
23	83	291	9:42	18	0.635	A BB	390887.	100.000 UG/L	1.98
24	63	335	11:10	18	0.731	A BB	224504.	100.000 UG/L	1.98
25	75	342	11:24	18	0.747	A BB	499681.	162.000 UG/L	3.21
26	130	361	12:02	18	0.788	A BV	323580.	100.000 UG/L	1.98
27	129	374	12:28	18	0.817	A BB	389732.	100.000 UG/L	1.98
28	97	379	12:38	18	0.828	A BB	196369.	100.000 UG/L	1.98
29	78	380	12:40	18	0.830	A BB	524038.	100.000 UG/L	1.98
30	75	381	12:42	18	0.832	A BB	115819.	38.000 UG/L	0.75
31	63	416	13:52	18	0.908	A BB	101844.	100.000 UG/L	1.98
32	173	454	15:08	18	0.991	A BB	326136.	100.000 UG/L	1.98
33	117	604	20:08	33	1.000	A BB	354758.	50.000 UG/L	0.99
34	98	570	19:00	33	0.944	A BB	738856.	100.000 UG/L	1.98
35	95	737	24:34	33	1.220	A BB	557943.	100.000 UG/L	1.98
36	43	476	15:52	33	0.788	A BB	244740.	100.000 UG/L	1.98
37	43	524	17:28	33	0.868	A BB	184648.	100.000 UG/L	1.98
38	164	533	17:46	33	0.882	A BB	318592.	100.000 UG/L	1.98
39	83	525	17:30	33	0.869	A BB	266227.	100.000 UG/L	1.98
40	92	576	19:12	33	0.954	A BB	417784.	100.000 UG/L	1.98
41	112	608	20:16	33	1.007	A BB	574328.	100.000 UG/L	1.98
42	106	667	22:14	33	1.104	A BB	281045.	100.000 UG/L	1.98
43	104	784	26:08	33	1.298	A BB	506071.	100.000 UG/L	1.98
44	106	825	27:30	33	1.366	A BB	603656.	200.000 UG/L	3.96
45	146	925	30:50	33	1.531	M XX	686979.	100.000 UG/L	1.98
46	146	952	31:44	33	1.576	M XX	685216.	100.000 UG/L	1.98
47	146	972	32:24	33	1.609	M XX	729644.	100.000 UG/L	1.98
48	106	796	26:32	33	1.318	A BB	306112.	100.000 UG/L	1.98
49	73	264	8:48	1	1.737	A BB	441567.	100.000 UG/L	1.98
50	59	209	6:58	1	1.375	A VB	114067.	100.000 UG/L	1.98

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	5:04	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	7:36	1.00	1.500	1.00	100.00	100.00	2.734	2.734	1.00
3	1:16	1.00	0.250	1.00	100.00	100.00	0.640	0.640	1.00
4	1:36	1.00	0.316	1.00	100.00	100.00	1.044	1.044	1.00
5	1:52	1.00	0.368	1.00	100.00	100.00	1.114	1.114	1.00
6	2:10	1.00	0.428	1.00	100.00	100.00	0.618	0.618	1.00
7	2:54	1.00	0.572	1.00	100.00	100.00	1.083	1.083	1.00
8	3:18	1.00	0.651	1.00	100.00	100.00	0.386	0.386	1.00
9	3:20	1.00	0.658	1.00	100.00	100.00	0.131	0.131	1.00
10	4:10	1.00	0.822	1.00	100.00	100.00	2.808	2.808	1.00
11	4:32	1.00	0.895	1.00	100.00	100.00	3.263	3.263	1.00
12	3:42	1.00	0.730	1.00	100.00	100.00	0.293	0.293	1.00
13	4:56	1.00	0.974	1.00	100.00	100.00	1.002	1.002	1.00
14	5:54	1.00	1.164	1.00	100.00	100.00	2.225	2.225	1.00
15	6:34	1.00	1.296	1.00	100.00	100.00	1.070	1.070	1.00
16	6:56	1.00	1.368	1.00	100.00	100.00	2.587	2.587	1.00
17	7:40	1.00	1.513	1.00	100.00	100.00	2.485	2.485	1.00
18	15:16	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
19	7:42	1.00	1.520	1.00	100.00	100.00	0.124	0.124	1.00
20	8:56	1.00	0.585	1.00	100.00	100.00	0.588	0.588	1.00
21	9:18	1.00	0.609	1.00	100.00	100.00	0.606	0.606	1.00
22	9:34	1.00	0.627	1.00	100.00	100.00	0.495	0.495	1.00
23	9:42	1.00	0.635	1.00	100.00	100.00	0.549	0.549	1.00
24	11:10	1.00	0.731	1.00	100.00	100.00	0.315	0.315	1.00
25	11:24	1.00	0.747	1.00	162.00	162.00	0.433	0.433	1.00
26	12:02	1.00	0.788	1.00	100.00	100.00	0.454	0.454	1.00
27	12:28	1.00	0.817	1.00	100.00	100.00	0.547	0.547	1.00
28	12:38	1.00	0.828	1.00	100.00	100.00	0.276	0.276	1.00
29	12:40	1.00	0.830	1.00	100.00	100.00	0.736	0.736	1.00
30	12:42	1.00	0.832	1.00	38.00	38.00	0.428	0.428	1.00
31	13:52	1.00	0.908	1.00	100.00	100.00	0.143	0.143	1.00
32	15:08	1.00	0.991	1.00	100.00	100.00	0.458	0.458	1.00
33	20:08	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
34	19:00	1.00	0.944	1.00	100.00	100.00	1.041	1.041	1.00
35	24:34	1.00	1.220	1.00	100.00	100.00	0.786	0.786	1.00
36	15:52	1.00	0.788	1.00	100.00	100.00	0.345	0.345	1.00
37	17:28	1.00	0.868	1.00	100.00	100.00	0.260	0.260	1.00
38	17:46	1.00	0.882	1.00	100.00	100.00	0.449	0.449	1.00
39	17:30	1.00	0.869	1.00	100.00	100.00	0.375	0.375	1.00
40	19:12	1.00	0.954	1.00	100.00	100.00	0.589	0.589	1.00
41	20:16	1.00	1.007	1.00	100.00	100.00	0.809	0.809	1.00
42	22:14	1.00	1.104	1.00	100.00	100.00	0.396	0.396	1.00
43	26:08	1.00	1.298	1.00	100.00	100.00	0.713	0.713	1.00
44	27:30	1.00	1.366	1.00	200.00	200.00	0.425	0.425	1.00
45	30:50	1.00	1.531	1.00	100.00	100.00	0.968	0.968	1.00
46	31:44	1.00	1.576	1.00	100.00	100.00	0.966	0.966	1.00
47	32:24	1.00	1.609	1.00	100.00	100.00	1.028	1.028	1.00
48	26:32	1.00	1.318	1.00	100.00	100.00	0.431	0.431	1.00
49	8:48	1.00	1.737	1.00	100.00	100.00	3.294	3.294	1.00
50	6:58	1.00	1.375	1.00	100.00	100.00	0.851	0.851	1.00

Quantitation Report File: W090311

Data: W090311.TI
09/03/91 17:25:00
Sample: VSTD100 LOW WATER ICL
Conds.: 1050W, VO, METHOD 2
Formula: W090308 Instrument: 1050W Weight: 0.019
Submitted by: Analyst: PSS Acct. No.: 082291

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
51	T-BUTYL ALCOHOL

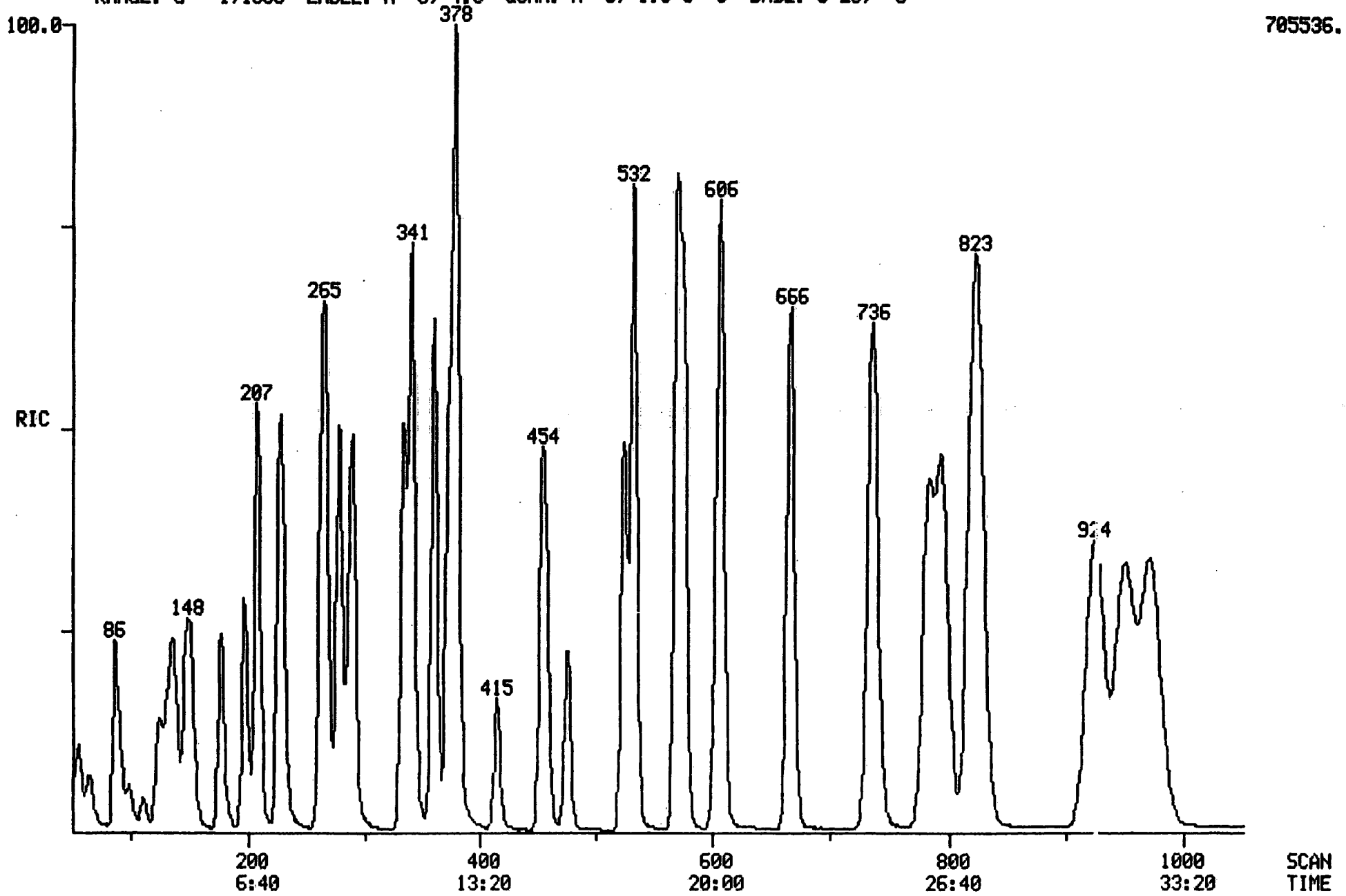
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	59	183	6:06	1	1.204	A BB	15814.	100.000 UG/L	1.98

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	6:06	1.00	1.204	1.00	100.00	100.00	0.118	0.118	1.00

RIC
09/03/91 18:05:00
SAMPLE: VSTD150 LOW WATER ICL
CONDS.: 1050W, VO, METHOD 2
RANGE: G 1,1050 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: W090312 #1
CALI: W090312 #2

SCANS 50 TO 1050



00001187

Quantitation Report File: W090312

Data: W090312.TI
09/03/91 18:05:00
Sample: VSTD150 LOW WATER ICL
Conds.: 1050W, VO, METHOD 2
Formula: W090308 Instrument: 1050W Weight: 0.019
Submitted by: Analyst: PSS Acct. No.: 082291

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	IS1	BROMOCHLOROMETHANE	INTERNAL STANDARD #1
2	SS1	1,2-DICHLOROETHANE D4	SURROGATE STANDARD#1
3	45V	CHLOROMETHANE	
4	46V	BROMOMETHANE	
5	88V	VINYL CHLORIDE	
6	16V	CHLOROETHANE	
7	44V	METHYLENE CHLORIDE	
8	13H	ACETONE	
9	21H	ACROLEIN	
10	15H	CARBON DISULFIDE	
11	24H	TRICHLOROFLUOROMETHANE	
12	22H	ACRYLONITRILE	
13	29V	1,1-DICHLOROETHYLENE	
14	13V	1,1-DICHLOROETHANE	
15		1,2-DICHLOROETHENE (TOTAL)	
16	23V	CHLOROFORM	
17	10V	1,2-DICHLOROETHANE	
18	IS2	1,4-DIFLUOROBENZENE	INTERNAL STANDARD #2
19	14H	2-BUTANONE	
20	11V	1,1,1-TRICHLOROETHANE	
21	6V	CARBON TETRACHLORIDE	
22	19H	VINYL ACETATE	
23	48V	BROMODICHLOROMETHANE	
24	32V	1,2-DICHLOROPROPANE	
25	33VC	CIS-1,3-DICHLOROPROPENE	
26		TRICHLOROETHYLENE	
27	51V	DIBROMOCHLOROMETHANE	
28	14V	1,1,2-TRICHLOROETHANE	
29	4V	BENZENE	
30	33VT	TRANS-1,3-DICHLOROPROPENE	
31		2-CHLOROETHYLVINYLETHER	
32	47V	BROMOFORM	
33	IS3	CHLOROBENZENE D5	INTERNAL STANDARD #3
34	SS2	TOLUENE D8	SURROGATE STANDARD #2
35	SS3	4-BROMOFLUOROBENZENE	SURROGATE STANDARD #3
36	17H	4-METHYL-2-PENTANONE	
37	16H	2-HEXANONE	
38	85V	TETRACHLOROETHYLENE	
39	15V	1,1,2,2-TETRACHLOROETHANE	
40	86V	TOLUENE	
41	7V	CHLOROBENZENE	
42	38V	ETHYLBENZENE	
43	18H	STYRENE	
44		XYLENES (TOTAL)	
45	26B	1,3-DICHLOROBENZENE	
46	25B	1,2-DICHLOROBENZENE	
47	27B	1,4-DICHLOROBENZENE	

No	Name
48	XYLENES
49	METHYL-T-BUTYLETHER
50	DIETHYLETHER

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	151	5:02	1	1.000	A BB	66691.	50.000	UG/L	0.67
2	65	227	7:34	1	1.503	A BB	561578.	150.000	UG/L	2.00
3	50	37	1:14	1	0.245	A BB	111161.	150.000	UG/L	2.00
4	94	47	1:34	1	0.311	A BB	174860.	150.000	UG/L	2.00
5	62	55	1:50	1	0.364	A BB	193104.	150.000	UG/L	2.00
6	64	65	2:10	1	0.430	A VB	114917.	150.000	UG/L	2.00
7	84	86	2:52	1	0.570	A BB	207241.	150.000	UG/L	2.00
8	43	98	3:16	1	0.649	A BB	70982.	150.000	UG/L	2.00
9	56	99	3:18	1	0.656	A BB	26484.	150.000	UG/L	2.00
10	76	124	4:08	1	0.821	A BB	537490.	150.000	UG/L	2.00
11	101	135	4:30	1	0.894	A BB	619473.	150.000	UG/L	2.00
12	53	110	3:40	1	0.728	A BB	52819.	150.000	UG/L	2.00
13	96	147	4:54	1	0.974	A BB	192650.	150.000	UG/L	2.00
14	63	176	5:52	1	1.166	A BB	430178.	150.000	UG/L	2.00
15	96	196	6:32	1	1.298	A BB	209371.	150.000	UG/L	2.00
16	83	207	6:54	1	1.371	A BB	536410.	150.000	UG/L	2.00
17	62	229	7:38	1	1.517	A BB	483486.	150.000	UG/L	2.00
18	114	457	15:14	18	1.000	A BB	352161.	50.000	UG/L	0.67
19	72	230	7:40	1	1.523	A BB	23575.	150.000	UG/L	2.00
20	97	267	8:54	18	0.584	A BB	602343.	150.000	UG/L	2.00
21	117	278	9:16	18	0.608	A VB	612457.	150.000	UG/L	2.00
22	43	286	9:32	18	0.626	A BB	549787.	150.000	UG/L	2.00
23	83	290	9:40	18	0.635	A BB	571067.	150.000	UG/L	2.00
24	63	334	11:08	18	0.731	A BB	331334.	150.000	UG/L	2.00
25	75	341	11:22	18	0.746	A BB	734466.	243.000	UG/L	3.24
26	130	360	12:00	18	0.788	A BB	481729.	150.000	UG/L	2.00
27	129	372	12:24	18	0.814	A BB	562911.	150.000	UG/L	2.00
28	97	378	12:36	18	0.827	A BB	281377.	150.000	UG/L	2.00
29	78	379	12:38	18	0.829	A BB	743884.	150.000	UG/L	2.00
30	75	380	12:40	18	0.832	A BB	172401.	57.000	UG/L	0.76
31	63	415	13:50	18	0.908	A BB	150284.	150.000	UG/L	2.00
32	173	453	15:06	18	0.991	A BB	491660.	150.000	UG/L	2.00
33	117	603	20:06	33	1.000	A BB	356111.	50.000	UG/L	0.67
34	98	569	18:58	33	0.944	A BB	1124900.	150.000	UG/L	2.00
35	95	736	24:32	33	1.221	A BB	859778.	150.000	UG/L	2.00
36	43	476	15:52	33	0.789	A BB	375411.	150.000	UG/L	2.00
37	43	523	17:26	33	0.867	A BB	274398.	150.000	UG/L	2.00
38	164	532	17:44	33	0.882	A BB	463495.	150.000	UG/L	2.00
39	83	525	17:30	33	0.871	A BB	387332.	150.000	UG/L	2.00
40	92	575	19:10	33	0.954	A BB	596860.	150.000	UG/L	2.00
41	112	607	20:14	33	1.007	A BB	835541.	150.000	UG/L	2.00
42	106	665	22:10	33	1.103	A BB	411686.	150.000	UG/L	2.00
43	104	783	26:06	33	1.299	A BB	757280.	150.000	UG/L	2.00
44	106	823	27:26	33	1.365	A BB	904072.	300.000	UG/L	4.00
45	146	924	30:48	33	1.532	M XX	1054050.	150.000	UG/L	2.00
46	146	950	31:40	33	1.575	M XX	1000990.	150.000	UG/L	2.00
47	146	971	32:22	33	1.610	M XX	1111940.	150.000	UG/L	2.00
48	106	795	26:30	33	1.318	A BB	456024.	150.000	UG/L	2.00
49	73	263	8:46	1	1.742	A BB	643056.	150.000	UG/L	2.00
50	59	208	6:56	1	1.377	A VB	181789.	150.000	UG/L	2.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	5:02	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	7:34	1.00	1.503	1.00	150.00	150.00	2.807	2.807	1.00
3	1:14	1.00	0.245	1.00	150.00	150.00	0.556	0.556	1.00
4	1:34	1.00	0.311	1.00	150.00	150.00	0.874	0.874	1.00
5	1:50	1.00	0.364	1.00	150.00	150.00	0.965	0.965	1.00
6	2:10	1.00	0.430	1.00	150.00	150.00	0.574	0.574	1.00
7	2:52	1.00	0.570	1.00	150.00	150.00	1.036	1.036	1.00
8	3:16	1.00	0.649	1.00	150.00	150.00	0.355	0.355	1.00
9	3:18	1.00	0.656	1.00	150.00	150.00	0.132	0.132	1.00
10	4:08	1.00	0.821	1.00	150.00	150.00	2.686	2.686	1.00
11	4:30	1.00	0.894	1.00	150.00	150.00	3.096	3.096	1.00
12	3:40	1.00	0.728	1.00	150.00	150.00	0.264	0.264	1.00
13	4:54	1.00	0.974	1.00	150.00	150.00	0.963	0.963	1.00
14	5:52	1.00	1.166	1.00	150.00	150.00	2.150	2.150	1.00
15	6:32	1.00	1.298	1.00	150.00	150.00	1.046	1.046	1.00
16	6:54	1.00	1.371	1.00	150.00	150.00	2.681	2.681	1.00
17	7:38	1.00	1.517	1.00	150.00	150.00	2.417	2.417	1.00
18	15:14	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
19	7:40	1.00	1.523	1.00	150.00	150.00	0.118	0.118	1.00
20	8:54	1.00	0.584	1.00	150.00	150.00	0.570	0.570	1.00
21	9:16	1.00	0.608	1.00	150.00	150.00	0.580	0.580	1.00
22	9:32	1.00	0.626	1.00	150.00	150.00	0.520	0.520	1.00
23	9:40	1.00	0.635	1.00	150.00	150.00	0.541	0.541	1.00
24	11:08	1.00	0.731	1.00	150.00	150.00	0.314	0.314	1.00
25	11:22	1.00	0.746	1.00	243.00	243.00	0.429	0.429	1.00
26	12:00	1.00	0.788	1.00	150.00	150.00	0.456	0.456	1.00
27	12:24	1.00	0.814	1.00	150.00	150.00	0.533	0.533	1.00
28	12:36	1.00	0.827	1.00	150.00	150.00	0.266	0.266	1.00
29	12:38	1.00	0.829	1.00	150.00	150.00	0.704	0.704	1.00
30	12:40	1.00	0.832	1.00	57.00	57.00	0.429	0.429	1.00
31	13:50	1.00	0.908	1.00	150.00	150.00	0.142	0.142	1.00
32	15:06	1.00	0.991	1.00	150.00	150.00	0.465	0.465	1.00
33	20:06	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
34	18:58	1.00	0.944	1.00	150.00	150.00	1.053	1.053	1.00
35	24:32	1.00	1.221	1.00	150.00	150.00	0.805	0.805	1.00
36	15:52	1.00	0.789	1.00	150.00	150.00	0.351	0.351	1.00
37	17:26	1.00	0.867	1.00	150.00	150.00	0.257	0.257	1.00
38	17:44	1.00	0.882	1.00	150.00	150.00	0.434	0.434	1.00
39	17:30	1.00	0.871	1.00	150.00	150.00	0.363	0.363	1.00
40	19:10	1.00	0.954	1.00	150.00	150.00	0.559	0.559	1.00
41	20:14	1.00	1.007	1.00	150.00	150.00	0.782	0.782	1.00
42	22:10	1.00	1.103	1.00	150.00	150.00	0.385	0.385	1.00
43	26:06	1.00	1.299	1.00	150.00	150.00	0.709	0.709	1.00
44	27:26	1.00	1.365	1.00	300.00	300.00	0.423	0.423	1.00
45	30:48	1.00	1.532	1.00	150.00	150.00	0.987	0.987	1.00
46	31:40	1.00	1.575	1.00	150.00	150.00	0.937	0.937	1.00
47	32:22	1.00	1.610	1.00	150.00	150.00	1.041	1.041	1.00
48	26:30	1.00	1.318	1.00	150.00	150.00	0.427	0.427	1.00
49	8:46	1.00	1.742	1.00	150.00	150.00	3.214	3.214	1.00
50	6:56	1.00	1.377	1.00	150.00	150.00	0.909	0.909	1.00

Quantitation Report File: W090312

Data: W090312.TI
09/03/91 18:05:00
Sample: VSTD150 LOW WATER ICL
Conds.: 1050W, VO, METHOD 2
Formula: W090308 Instrument: 1050W Weight: 0.019
Submitted by: Analyst: PSS Acct. No.: 082291

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
51	T-BUTYL ALCOHOL

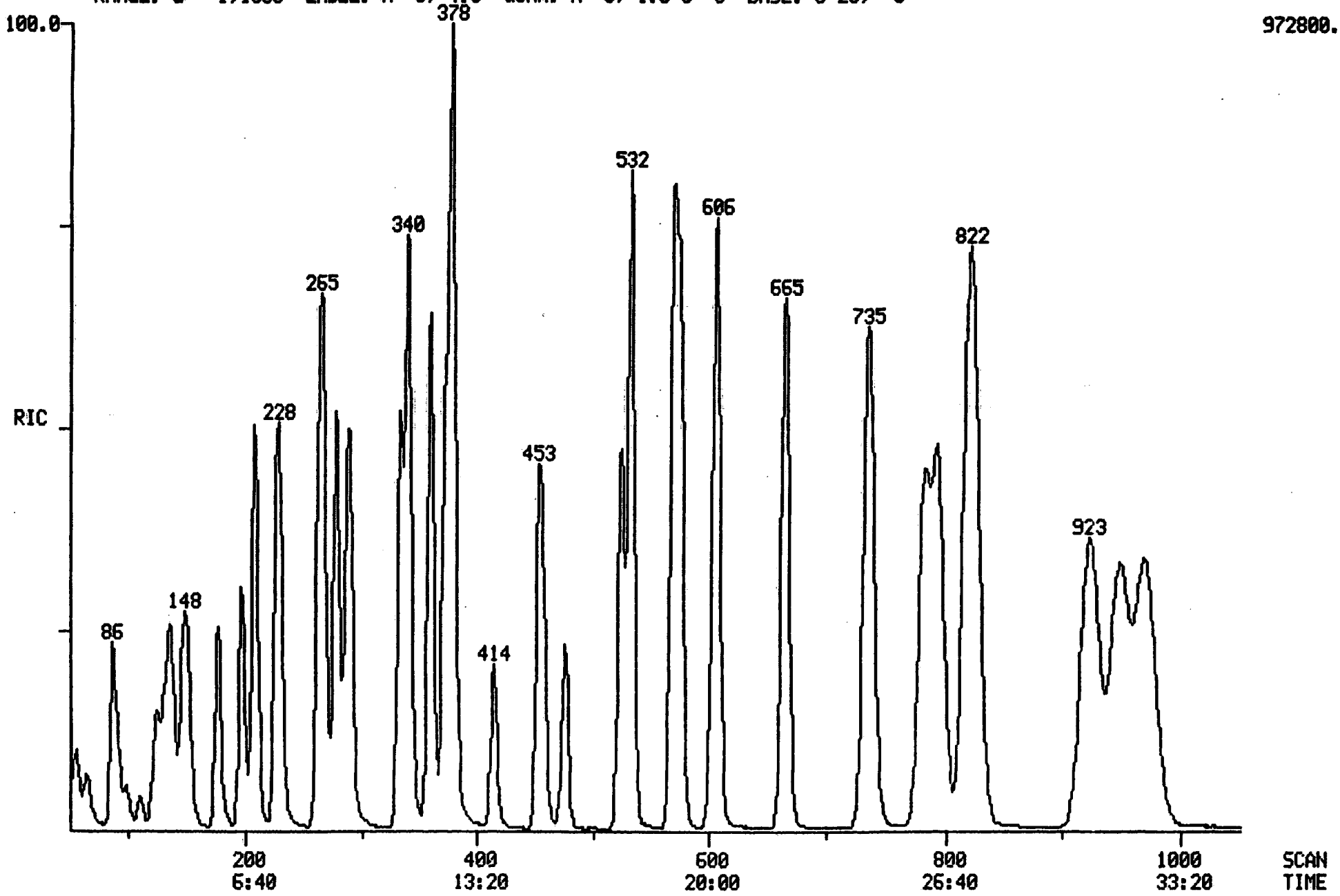
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	59	182	6:04	1	1.205	A BB	22807.	150.000 UG/L	2.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	6:04	1.00	1.205	1.00	150.00	150.00	0.114	0.114	1.00

RIC
09/03/91 18:45:00
SAMPLE: VSTD200 LOW WATER ICL
CONDS.: 1050W, VO, METHOD 2
RANGE: G 1,1050 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: W090313 #1
CALI: W090313 #2

SCANS 50 TO 1050



0000192

Quantitation Report File: W090313

Data: W090313.TI
09/03/91 18:45:00
Sample: VSTD200 LOW WATER ICL
Conds.: 1050W, VO, METHOD 2
Formula: W090308 Instrument: 1050W Weight: 0.019
Submitted by: Analyst: PSS Acct. No.: 082291

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	IS1	BROMOCHLOROMETHANE	INTERNAL STANDARD #1
2	SS1	1,2-DICHLOROETHANE D4	SURROGATE STANDARD#1
3	45V	CHLOROMETHANE	
4	46V	BROMOMETHANE	
5	88V	VINYL CHLORIDE	
6	16V	CHLOROETHANE	
7	44V	METHYLENE CHLORIDE	
8	13H	ACETONE	
9	21H	ACROLEIN	
10	15H	CARBON DISULFIDE	
11	24H	TRICHLOROFLUOROMETHANE	
12	22H	ACRYLONITRILE	
13	29V	1,1-DICHLOROETHYLENE	
14	13V	1,1-DICHLOROETHANE	
15		1,2-DICHLOROETHENE (TOTAL)	
16	23V	CHLOROFORM	
17	10V	1,2-DICHLOROETHANE	
18	IS2	1,4-DIFLUOROBENZENE	INTERNAL STANDARD #2
19	14H	2-BUTANONE	
20	11V	1,1,1-TRICHLOROETHANE	
21	6V	CARBON TETRACHLORIDE	
22	19H	VINYL ACETATE	
23	48V	BROMODICHLOROMETHANE	
24	32V	1,2-DICHLOROPROPANE	
25	33VC	CIS-1,3-DICHLOROPROPENE	
26		TRICHLOROETHYLENE	
27	51V	DIBROMOCHLOROMETHANE	
28	14V	1,1,2-TRICHLOROETHANE	
29	4V	BENZENE	
30	33VT	TRANS-1,3-DICHLOROPROPENE	
31		2-CHLOROETHYLVINYLETHER	
32	47V	BROMOFORM	
33	IS3	CHLOROBENZENE D5	INTERNAL STANDARD #3
34	SS2	TOLUENE D8	SURROGATE STANDARD #2
35	SS3	4-BROMOFLUOROBENZENE	SURROGATE STANDARD #3
36	17H	4-METHYL-2-PENTANONE	
37	16H	2-HEXANONE	
38	85V	TETRACHLOROETHYLENE	
39	15V	1,1,2,2-TETRACHLOROETHANE	
40	86V	TOLUENE	
41	7V	CHLOROBENZENE	
42	38V	ETHYLBENZENE	
43	18H	STYRENE	
44		XYLENES (TOTAL)	
45	26B	1,3-DICHLOROBENZENE	
46	25B	1,2-DICHLOROBENZENE	
47	27B	1,4-DICHLOROBENZENE	

No	Name
48	XYLENES
49	METHYL-T-BUTYLETHER
50	DIETHYLETHER

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	151	5:02	1	1.000	A BB	70344.	50.000	UG/L	0.50
2	65	226	7:32	1	1.497	A BB	763510.	200.000	UG/L	2.01
3	50	37	1:14	1	0.245	A BB	153046.	200.000	UG/L	2.01
4	94	47	1:34	1	0.311	A BB	227923.	200.000	UG/L	2.01
5	62	55	1:50	1	0.364	A BB	259858.	200.000	UG/L	2.01
6	64	64	2:08	1	0.424	A VB	160070.	200.000	UG/L	2.01
7	84	86	2:52	1	0.570	A BB	293658.	200.000	UG/L	2.01
8	43	98	3:16	1	0.649	A BB	88384.	200.000	UG/L	2.01
9	56	99	3:18	1	0.656	A BB	36814.	200.000	UG/L	2.01
10	76	124	4:08	1	0.821	A BB	789779.	200.000	UG/L	2.01
11	101	135	4:30	1	0.894	A BB	912690.	200.000	UG/L	2.01
12	53	110	3:40	1	0.728	A VB	75010.	200.000	UG/L	2.01
13	96	147	4:54	1	0.974	A BB	284471.	200.000	UG/L	2.01
14	63	176	5:52	1	1.166	A BB	622864.	200.000	UG/L	2.01
15	96	196	6:32	1	1.298	A BB	303557.	200.000	UG/L	2.01
16	83	207	6:54	1	1.371	A BB	719835.	200.000	UG/L	2.01
17	62	229	7:38	1	1.517	A BB	675755.	200.000	UG/L	2.01
18	114	457	15:14	18	1.000	A BB	375906.	50.000	UG/L	0.50
19	72	230	7:40	1	1.523	A BB	31112.	200.000	UG/L	2.01
20	97	267	8:54	18	0.584	A BB	861068.	200.000	UG/L	2.01
21	117	278	9:16	18	0.608	A VB	876692.	200.000	UG/L	2.01
22	43	286	9:32	18	0.626	A BB	789983.	200.000	UG/L	2.01
23	83	290	9:40	18	0.635	A BB	803045.	200.000	UG/L	2.01
24	63	334	11:08	18	0.731	A BB	471539.	200.000	UG/L	2.01
25	75	340	11:20	18	0.744	A BB	1035130.	324.000	UG/L	3.26
26	130	360	12:00	18	0.788	A BB	672594.	200.000	UG/L	2.01
27	129	372	12:24	18	0.814	A BB	777550.	200.000	UG/L	2.01
28	97	378	12:36	18	0.827	A BB	378995.	200.000	UG/L	2.01
29	78	378	12:36	18	0.827	A BB	1039090.	200.000	UG/L	2.01
30	75	380	12:40	18	0.832	A BB	244920.	76.000	UG/L	0.76
31	63	414	13:48	18	0.906	A BB	256781.	200.000	UG/L	2.01
32	173	453	15:06	18	0.991	A BB	699302.	200.000	UG/L	2.01
33	117	603	20:06	33	1.000	A BB	374344.	50.000	UG/L	0.50
34	98	569	18:58	33	0.944	A BB	1534110.	200.000	UG/L	2.01
35	95	735	24:30	33	1.219	A BB	1184940.	200.000	UG/L	2.01
36	43	475	15:50	33	0.788	A BB	532415.	200.000	UG/L	2.01
37	43	523	17:26	33	0.867	A BB	381372.	200.000	UG/L	2.01
38	164	532	17:44	33	0.882	A BB	664735.	200.000	UG/L	2.01
39	83	524	17:28	33	0.869	A BB	527467.	200.000	UG/L	2.01
40	92	575	19:10	33	0.954	A BB	840648.	200.000	UG/L	2.01
41	112	606	20:12	33	1.005	A BB	1175940.	200.000	UG/L	2.01
42	106	665	22:10	33	1.103	A BB	588339.	200.000	UG/L	2.01
43	104	782	26:04	33	1.297	A BB	1101090.	200.000	UG/L	2.01
44	106	822	27:24	33	1.363	A BB	1279870.	400.000	UG/L	4.02
45	146	923	30:46	33	1.531	M XX	1495290.	200.000	UG/L	2.01
46	146	948	31:36	33	1.572	M XX	1410300.	200.000	UG/L	2.01
47	146	969	32:18	33	1.607	M XX	1507840.	200.000	UG/L	2.01
48	106	794	26:28	33	1.317	A BB	656164.	200.000	UG/L	2.01
49	73	263	8:46	1	1.742	A BB	896623.	200.000	UG/L	2.01
50	59	209	6:58	1	1.384	A VB	236020.	200.000	UG/L	2.01

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	5:02	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	7:32	1.00	1.497	1.00	200.00	200.00	2.713	2.713	1.00
3	1:14	1.00	0.245	1.00	200.00	200.00	0.544	0.544	1.00
4	1:34	1.00	0.311	1.00	200.00	200.00	0.810	0.810	1.00
5	1:50	1.00	0.364	1.00	200.00	200.00	0.924	0.924	1.00
6	2:08	1.00	0.424	1.00	200.00	200.00	0.569	0.569	1.00
7	2:52	1.00	0.570	1.00	200.00	200.00	1.044	1.044	1.00
8	3:16	1.00	0.649	1.00	200.00	200.00	0.314	0.314	1.00
9	3:18	1.00	0.656	1.00	200.00	200.00	0.131	0.131	1.00
10	4:08	1.00	0.821	1.00	200.00	200.00	2.807	2.807	1.00
11	4:30	1.00	0.894	1.00	200.00	200.00	3.244	3.244	1.00
12	3:40	1.00	0.728	1.00	200.00	200.00	0.267	0.267	1.00
13	4:54	1.00	0.974	1.00	200.00	200.00	1.011	1.011	1.00
14	5:52	1.00	1.166	1.00	200.00	200.00	2.214	2.214	1.00
15	6:32	1.00	1.298	1.00	200.00	200.00	1.079	1.079	1.00
16	6:54	1.00	1.371	1.00	200.00	200.00	2.558	2.558	1.00
17	7:38	1.00	1.517	1.00	200.00	200.00	2.402	2.402	1.00
18	15:14	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
19	7:40	1.00	1.523	1.00	200.00	200.00	0.111	0.111	1.00
20	8:54	1.00	0.584	1.00	200.00	200.00	0.573	0.573	1.00
21	9:16	1.00	0.608	1.00	200.00	200.00	0.583	0.583	1.00
22	9:32	1.00	0.626	1.00	200.00	200.00	0.525	0.525	1.00
23	9:40	1.00	0.635	1.00	200.00	200.00	0.534	0.534	1.00
24	11:08	1.00	0.731	1.00	200.00	200.00	0.314	0.314	1.00
25	11:20	1.00	0.744	1.00	324.00	324.00	0.425	0.425	1.00
26	12:00	1.00	0.788	1.00	200.00	200.00	0.447	0.447	1.00
27	12:24	1.00	0.814	1.00	200.00	200.00	0.517	0.517	1.00
28	12:36	1.00	0.827	1.00	200.00	200.00	0.252	0.252	1.00
29	12:36	1.00	0.827	1.00	200.00	200.00	0.691	0.691	1.00
30	12:40	1.00	0.832	1.00	76.00	76.00	0.429	0.429	1.00
31	13:48	1.00	0.906	1.00	200.00	200.00	0.171	0.171	1.00
32	15:06	1.00	0.991	1.00	200.00	200.00	0.465	0.465	1.00
33	20:06	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
34	18:58	1.00	0.944	1.00	200.00	200.00	1.025	1.025	1.00
35	24:30	1.00	1.219	1.00	200.00	200.00	0.791	0.791	1.00
36	15:50	1.00	0.788	1.00	200.00	200.00	0.356	0.356	1.00
37	17:26	1.00	0.867	1.00	200.00	200.00	0.255	0.255	1.00
38	17:44	1.00	0.882	1.00	200.00	200.00	0.444	0.444	1.00
39	17:28	1.00	0.869	1.00	200.00	200.00	0.352	0.352	1.00
40	19:10	1.00	0.954	1.00	200.00	200.00	0.561	0.561	1.00
41	20:12	1.00	1.005	1.00	200.00	200.00	0.785	0.785	1.00
42	22:10	1.00	1.103	1.00	200.00	200.00	0.393	0.393	1.00
43	26:04	1.00	1.297	1.00	200.00	200.00	0.735	0.735	1.00
44	27:24	1.00	1.363	1.00	400.00	400.00	0.427	0.427	1.00
45	30:46	1.00	1.531	1.00	200.00	200.00	0.999	0.999	1.00
46	31:36	1.00	1.572	1.00	200.00	200.00	0.942	0.942	1.00
47	32:18	1.00	1.607	1.00	200.00	200.00	1.007	1.007	1.00
48	26:28	1.00	1.317	1.00	200.00	200.00	0.438	0.438	1.00
49	8:46	1.00	1.742	1.00	200.00	200.00	3.187	3.187	1.00
50	6:58	1.00	1.384	1.00	200.00	200.00	0.839	0.839	1.00

Quantitation Report File: W090313

Data: W090313.TI
09/03/91 18:45:00
Sample: VSTD200 LOW WATER ICL
Conds.: 1050W, VO, METHOD 2
Formula: W090308 Instrument: 1050W Weight: 0.019
Submitted by: Analyst: PSS Acct. No.: 082291

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
51	T-BUTYL ALCOHOL

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	59	182	6:04	1	1.205	A BB	31424.	200.000 UG/L	2.01

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	6:04	1.00	1.205	1.00	200.00	200.00	0.112	0.112	1.00

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Roy F. Weston, Inc. Contract: 3600-04-90-0000

Case No.: WSI-LE CARPENTER RFW Lot: 9109L758

Instrument ID: HP-MSD K Calibration Date: 09/26/91 Time: 1404

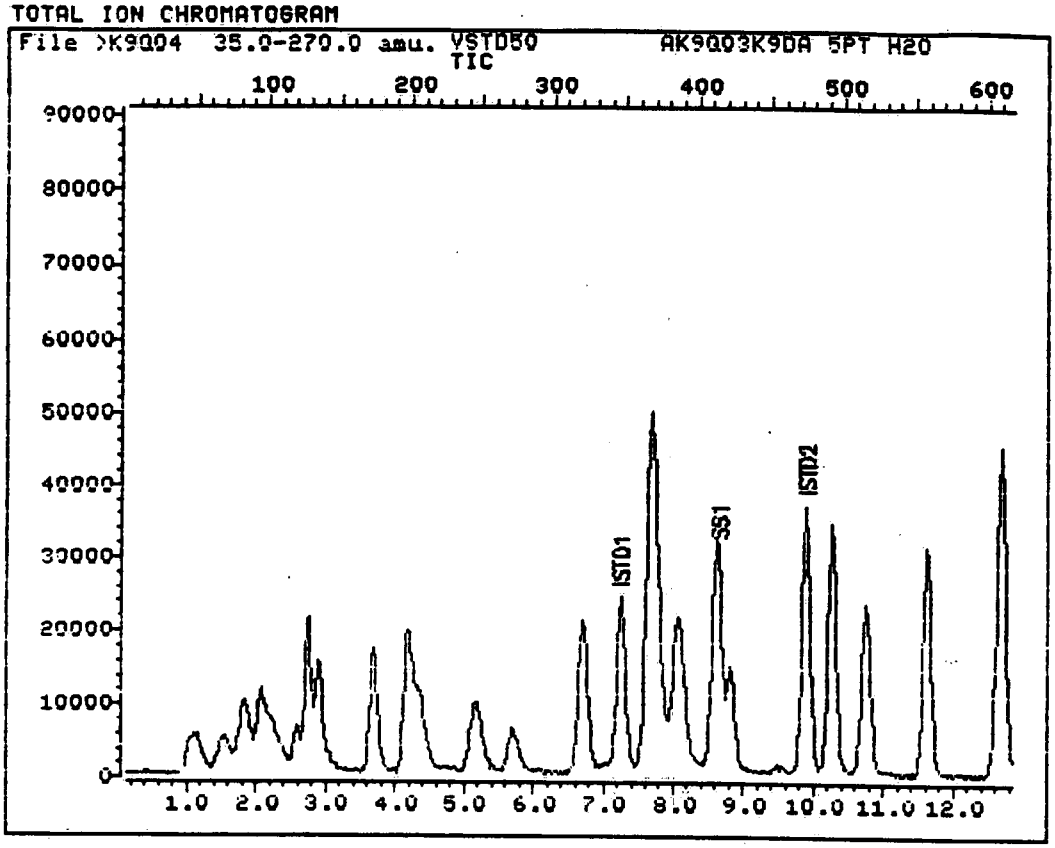
Lab File ID: AK9Q04 Init. Calib. Date(s): 09/13/91 09/13/91

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform Max %D for CCC(*) = 25.0%

COMPOUND		RRF	RRF50	%D	
Chloromethane	#	0.591	0.461	22.0	# ✓
Bromomethane		0.972	0.931	4.2	
Vinyl Chloride	*	0.774	0.655	15.4	* ✓
Chloroethane		0.444	0.451	-1.5	
Methylene Chloride		1.073	1.036	3.5	
1,1-Dichloroethene	*	0.836	0.922	-10.3	* ✓
1,1-Dichloroethane	#	1.933	1.969	-1.9	# ✓
1,2-Dichloroethene (total)		1.027	1.068	-4.0	
Chloroform	*	2.456	2.542	-3.5	* ✓
1,2-Dichloroethane		0.424	0.435	-2.7	
1,1,1-Trichloroethane		2.193	2.264	-3.2	
Carbon Tetrachloride		2.404	2.480	-3.1	
Bromodichloromethane		0.723	0.759	-5.0	
1,2-Dichloropropane	*	0.302	0.292	3.2	* ✓
cis-1,3-Dichloropropene		0.511	0.496	3.0	
Trichloroethene		0.388	0.428	-10.2	
Dibromochloromethane		0.757	0.761	-0.5	
1,1,2-Trichloroethane		0.312	0.308	1.1	
Benzene		0.629	0.645	-2.5	
Trans-1,3-Dichloropropene		0.512	0.461	9.9	
2-chloroethylvinylether		0.171	0.163	4.7	
Bromoform	#	0.730	0.683	6.4	# ✓
Tetrachloroethene		0.477	0.484	-1.4	
1,1,2,2-Tetrachloroethane	#	0.537	0.486	9.5	# ✓
Toluene	*	0.490	0.490	0.1	* ✓
Chlorobenzene	#	0.747	0.751	-0.5	# ✓
Ethylbenzene	*	0.325	0.329	-1.1	* ✓
1,2-Dichlorobenzene		0.848	0.822	3.1	
1,3-Dichlorobenzene		0.879	0.862	1.9	
1,4-Dichlorobenzene		0.907	0.847	6.6	
Acrolein		0.076	0.068	10.9	
Acrylonitrile		0.142	0.138	3.0	
Trichlorofluoromethane		2.092	2.210	-5.6	
Xylene (total)		0.394	0.384	2.5	
Toluene-d8		1.014	1.002	1.2	
Bromofluorobenzene		1.024	0.938	8.4	
1,2-Dichloroethane-d4		0.470	0.474	-0.9	

TOTAL ION CHROMATOGRAM



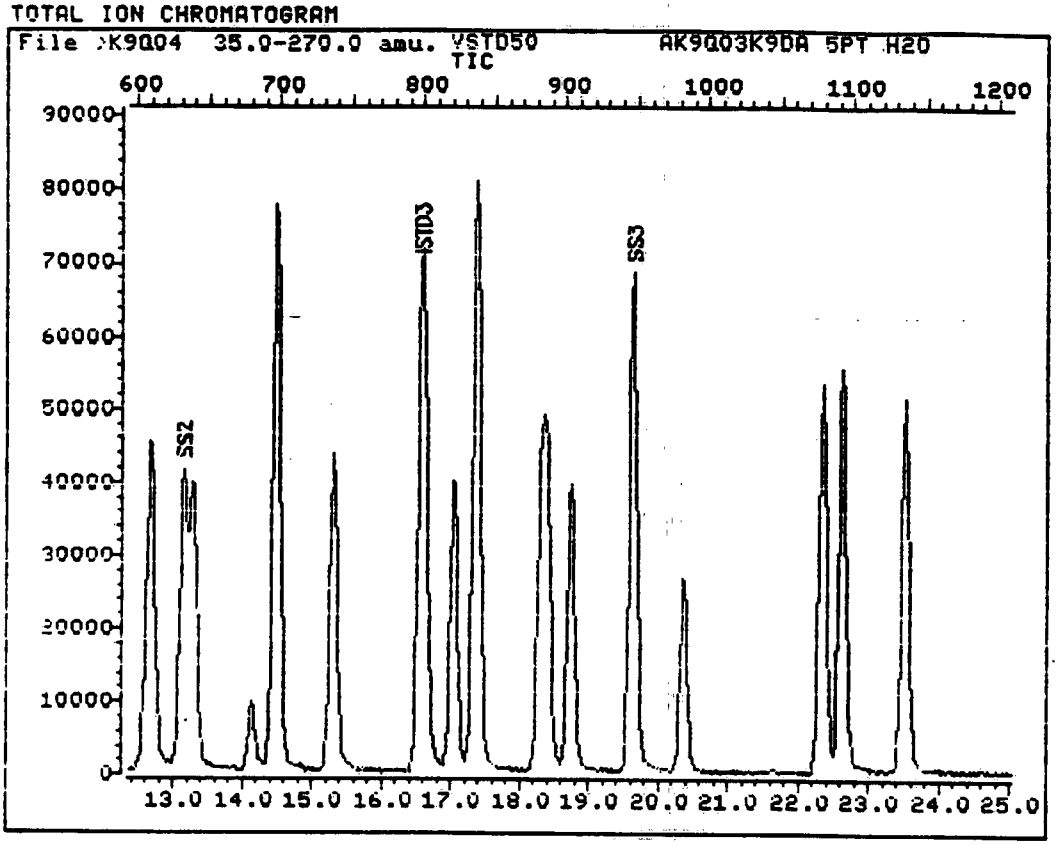
Data File: >K9Q04::D2 Quant Output File: ^K9Q04::QQ
Name: VSTD50 AK9Q03
Misc: K9DA 5PT H2O #HP-MSD K RSL

Id File: I_K9DA::QQ
Title: VOLATILES BY CAPILLARY (DB-624)
Last Calibration: 910914 17:51

Operator ID: RSL
Quant Time: 910926 14:30
Injected at: 910926 14:04

TIC page 1 of 2

TOTAL ION CHROMATOGRAM



Data File: >K9Q04::D2 Quant Output File: ^K9Q04::QQ
Name: VSTD50 AK9Q03
Misc: K9DA 5PT H2O #HP-MSD K RSL

Id File: I_K9DA::QQ
Title: VOLATILES BY CAPILLARY (DB-624)
Last Calibration: 910914 17:51

Operator ID: RSL
Quant Time: 910926 14:30
Injected at: 910926 14:04

TIC page 2 of 2

QUANT REPORT

Operator ID: RSL
Output File: ^K9Q04::QQ
Data File: >K9Q04::D2
Name: VSTD50 AK9Q03
Misc: K9DA 5PT H2O

Quant Rev: 6
Quant Time: 910926 14:30
Injected at: 910926 14:04
Dilution Factor: 1.00000

#HP-MSD K RSL

ID File: I_K9DA::QQ
Title: VOLATILES BY CAPILLARY (DB-624)
Last Calibration: 910914 17:51

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE	7.25	128.0	30607	50.00	ug/L	80
2)	CHLOROMETHANE	1.48	50.0	14116	38.99	ug/L	99
3)	VINYL CHLORIDE	1.56	62.0	20044	42.32	ug/L	99
4)	BROMOMETHANE	1.81	94.0	28497	47.88	ug/L	96
5)	CHLOROETHANE	1.85	64.0	13791	50.69	ug/L	84
6)	TRICHLOROFLUOROMETHANE	2.08	101.0	67644	52.81	ug/L	97
7)	DIETHYLETHER	2.57	59.0	12215	52.40	ug/L	85
8)	1,1-DICHLOROETHYLENE	2.76	96.0	28217	55.13	ug/L	94
9)	ACROLEIN	2.78	56.0	2072	44.25	ug/L	87
10)	CARBON DISULFIDE	2.90	76.0	74664	50.32	ug/L	97
11)	ACETONE	3.05	43.0	5343	45.17	ug/L	100
12)	METHYLENE CHLORIDE	3.69	84.0	31706	48.29	ug/L	84
13)	1,2-DICHLOROETHENE (TOTAL)	4.16	96.0	32698	52.00	ug/L	98
14)	ACRYLONITRILE	4.34	53.0	4216	48.52	ug/L	81
15)	T-BUTYL ALCOHOL	4.76	59.0	1537M	44.06	ug/L	
16)	METHYL-T-BUTYLETHER	4.37	73.0	57130	52.38	ug/L	84
17)	1,1-DICHLOROETHANE	5.17	63.0	60267	50.92	ug/L	84
18)	VINYL ACETATE	5.70	43.0	50532	43.26	ug/L	82
19)	1,2-DICHLOROETHENE (CIS)	6.71	96.0	44207	53.08	ug/L	97
20)	2-BUTANONE	7.04	72.0	1692	63.37	ug/L	87
21)	CHLOROFORM	7.66	83.0	77815	51.76	ug/L	93
22)	1,1,1-TRICHLOROETHANE	7.74	97.0	69278	51.60	ug/L	74
23)	CARBON TETRACHLORIDE	8.07	117.0	75895	51.57	ug/L	87
24)	*1,4-DIFLUOROBENZENE	9.89	114.0	116752	50.00	ug/L	68
25)	BENZENE	8.61	78.0	75269	51.27	ug/L	71
26)	1,2-DICHLOROETHANE D4	8.65	65.0	55388	50.52	ug/L	88
27)	1,2-DICHLOROETHANE	8.82	62.0	50821	51.39	ug/L	99
28)	TRICHLOROETHYLENE	10.26	130.0	49920	55.11	ug/L	93
29)	2-CHLOROETHYLVINYLETHER	12.59	63.0	19025	47.62	ug/L	83
30)	1,2-DICHLOROPROPANE	10.75	63.0	34148	48.48	ug/L	93
31)	BROMODICHLOROMETHANE	11.64	83.0	88621	52.47	ug/L	88
32)	*CHLOROBENZENE-D5	16.56	117.0	112699	50.00	ug/L	93
33)	TRANS-1,3-DICHLOROPROPENE	14.15	75.0	19750	17.13	ug/L	86
34)	TOLUENE D8	13.14	98.0	112949	49.43	ug/L	97
35)	TOLUENE	13.29	92.0	55182	49.93	ug/L	97
36)	4-METHYL-2-PENTANONE	13.25	43.0	22390^	41.70	ug/L	56
37)	CIS-1,3-DICHLOROPROPENE	12.67	75.0	90535	78.58	ug/L	96
38)	TETRACHLOROETHYLENE	14.48	164.0	54530	50.72	ug/L	95
39)	1,1,2-TRICHLOROETHANE	14.48	97.0	34767	49.39	ug/L	95
40)	DIBROMOCHLOROMETHANE	15.31	129.0	85756	50.24	ug/L	98
41)	2-HEXANONE	15.33	43.0	15107	38.49	ug/L	88
42)	CHLOROBENZENE	16.61	112.0	84589	50.23	ug/L	77
43)	ETHYLBENZENE	17.04	106.0	37045	50.58	ug/L	94

	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	STYRENE	18.40	104.0	75709	48.46	ug/L	95
45)	XYLENE	17.37	106.0	86942	99.51	ug/L	90
46)	XYLENES (TOTAL)	18.30	106.0	43314	48.72	ug/L	90
47)	BROMOFORM	18.75	173.0	76998	46.82	ug/L	99
48)	4-BROMOFLUOROBENZENE	19.64	95.0	105665	45.79	ug/L	98
49)	1,1,2,2-TETRACHLOROETHANE	20.36	83.0	54778	45.23	ug/L	98
50)	1,3-DICHLOROBENZENE	22.33	146.0	97135	49.02	ug/L	94
51)	1,4-DICHLOROBENZENE	22.62	146.0	95465	46.70	ug/L	98
52)	1,2-DICHLOROBENZENE	23.51	146.0	92640	48.47	ug/L	98

* Compound is ISTD

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Roy F. Weston, Inc. Contract: 3600-04-90-0000

Case No.: WSI-LE CARPENTER RFW Lot: 9109L758

Instrument ID: HP-MSD K Calibration Date: 09/27/91 Time: 1222

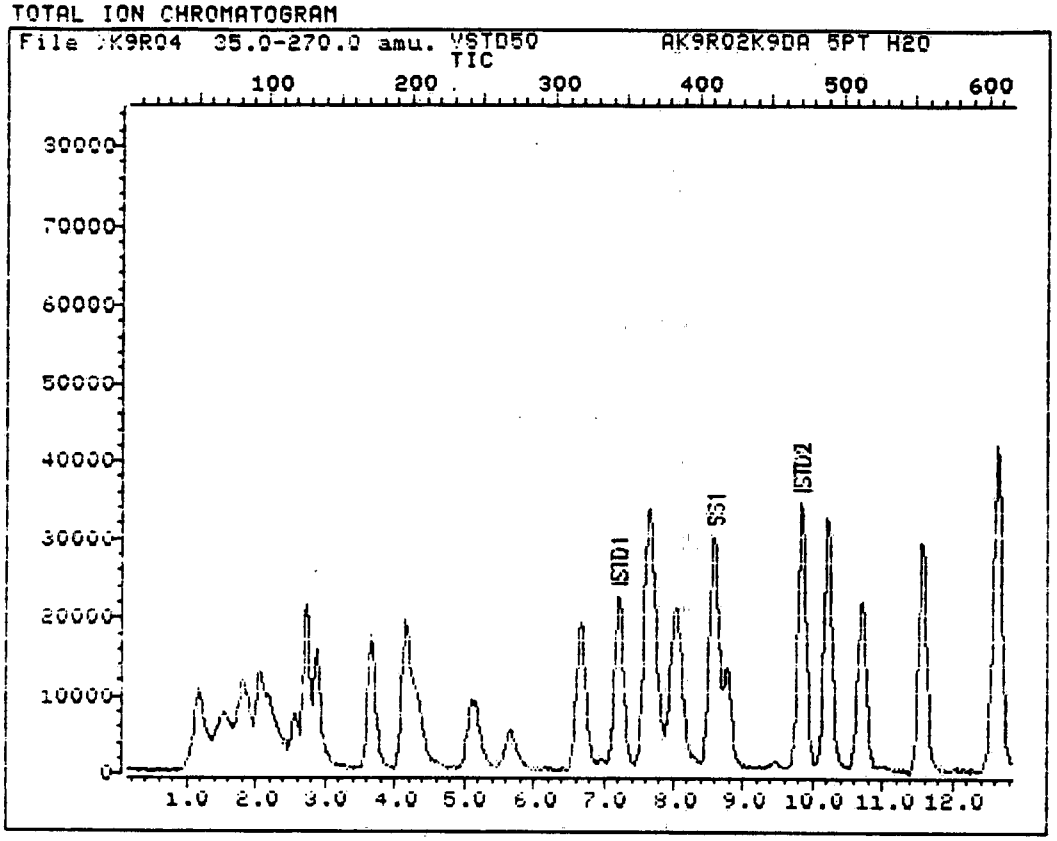
Lab File ID: AK9R04 Init. Calib. Date(s): 09/13/91 09/13/91

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform Max %D for CCC(*) = 25.0%

COMPOUND		RRF	RRF50	%D	
Chloromethane	#	0.591	0.392	33.6	#✓
Bromomethane		0.972	0.888	8.6	
Vinyl Chloride	*	0.774	0.609	21.4	*✓
Chloroethane		0.444	0.403	9.2	
Methylene Chloride		1.073	1.108	-3.3	
1,1-Dichloroethene	*	0.836	0.891	-6.6	*✓
1,1-Dichloroethane	#	1.933	1.792	7.3	#✓
1,2-Dichloroethene (total)		1.027	0.992	3.5	
Chloroform	*	2.456	2.391	2.6	*✓
1,2-Dichloroethane		0.424	0.426	-0.4	
1,1,1-Trichloroethane		2.193	2.188	0.2	
Carbon Tetrachloride		2.404	2.480	-3.2	
Bromodichloromethane		0.723	0.727	-0.6	
1,2-Dichloropropane	*	0.302	0.281	6.9	*✓
cis-1,3-Dichloropropene		0.511	0.478	6.5	
Trichloroethene		0.388	0.432	-11.4	
Dibromochloromethane		0.757	0.792	-4.6	
1,1,2-Trichloroethane		0.312	0.308	1.3	
Benzene		0.629	0.611	2.9	
Trans-1,3-Dichloropropene		0.512	0.452	11.6	
2-chloroethylvinylether		0.171	0.156	8.9	
Bromoform	#	0.730	0.749	-2.5	#✓
Tetrachloroethene		0.477	0.483	-1.2	
1,1,2,2-Tetrachloroethane	#	0.537	0.481	10.5	#✓
Toluene	*	0.490	0.464	5.4	*✓
Chlorobenzene	#	0.747	0.727	2.7	#✓
Ethylbenzene	*	0.325	0.312	4.1	*✓
1,2-Dichlorobenzene		0.848	0.811	4.4	
1,3-Dichlorobenzene		0.879	0.846	3.7	
1,4-Dichlorobenzene		0.907	0.850	6.3	
Acrolein		0.076	0.056	26.9	
Acrylonitrile		0.142	0.121	15.0	
Trichlorofluoromethane		2.092	2.117	-1.2	
Xylene (total)		0.394	0.374	5.0	
Toluene-d8		1.014	0.989	2.4	
Bromofluorobenzene		1.024	0.914	10.8	
1,2-Dichloroethane-d4		0.470	0.458	2.5	

TOTAL ION CHROMATOGRAM



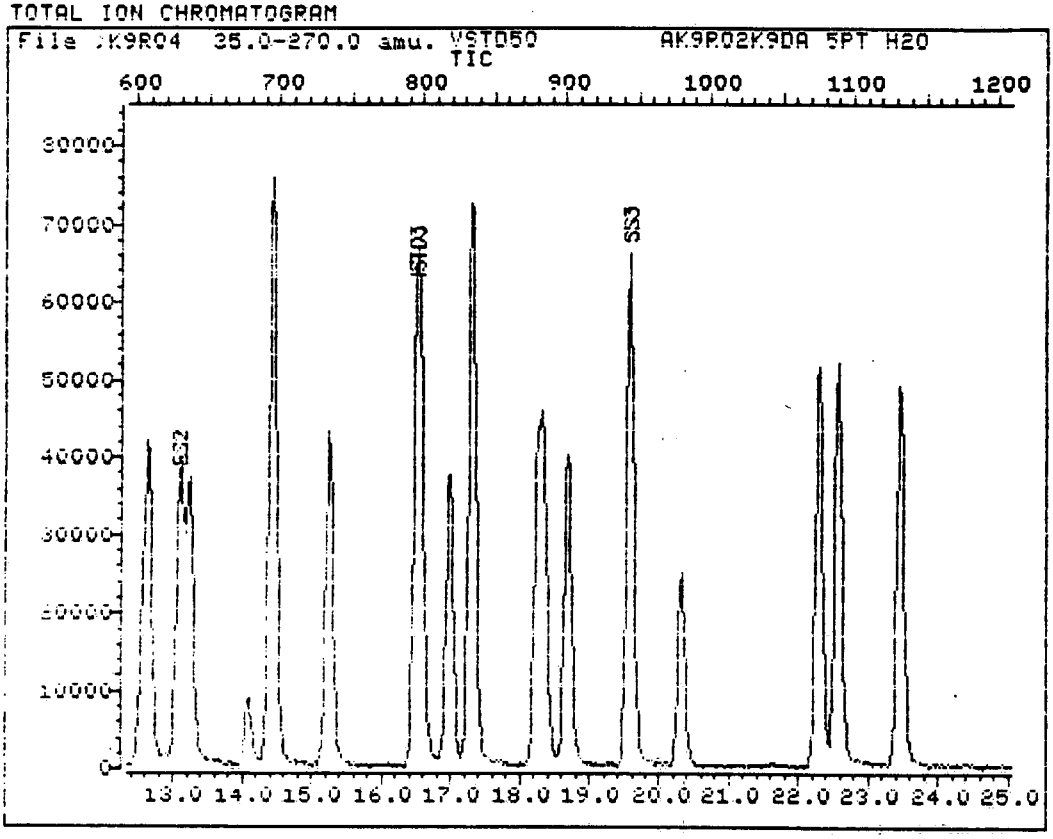
Data File: >K9R04::D2 Quant Output File: ^K9R04::QQ
Name: VSTD50 AK9R02
Misc: K9DA 5PT H2O #HP-MSD K RSL

Id File: I_K9DA::QQ
Title: VOLATILES BY CAPILLARY (DB-624)
Last Calibration: 910914 17:51

Operator ID: RSL
Quant Time: 910927 12:49
Injected at: 910927 12:22

TIC page 1 of 2

TOTAL ION CHROMATOGRAM



Data File: >K9R04::D2 Quant Output File: ^K9R04::QQ
Name: VSTD50 AK9R02
Misc: K9DA 5PT H2O #HP-MSD K RSL

Id File: I_K9DA::QQ
Title: VOLATILES BY CAPILLARY (DB-624)
Last Calibration: 910914 17:51

Operator ID: RSL
Quant Time: 910927 12:49
Injected at: 910927 12:22

TIC page 2 of 2

QUANT REPORT

Operator ID: RSL
Output File: ^K9R04::QQ
Data File: >K9R04::D2
Name: VSTD50 AK9R02
Misc: K9DA 5PT H2O

Quant Rev: 6
Quant Time: 910927 12:49
Injected at: 910927 12:22
Dilution Factor: 1.00000

#HP-MSD K RSL

ID File: I_K9DA::QQ
Title: VOLATILES BY CAPILLARY (DB-624)
Last Calibration: 910914 17:51

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE	7.21	128.0	30426	50.00	ug/L	70
2)	CHLOROMETHANE	1.46	50.0	11934	33.16	ug/L	79
3)	VINYL CHLORIDE	1.56	62.0	18516	39.32	ug/L	93
4)	BROMOMETHANE	1.81	94.0	27022	45.67	ug/L	98
5)	CHLOROETHANE	1.87	64.0	12266	45.35	ug/L	84
6)	TRICHLOROFLUOROMETHANE	2.08	101.0	64402M	50.58	ug/L	87
7)	DIETHYLETHER	2.57	59.0	10237	44.18	ug/L	74
8)	1,1-DICHLOROETHYLENE	2.74	96.0	27117	53.30	ug/L	89
9)	ACROLEIN	2.74	56.0	1690	36.30	ug/L	73
10)	CARBON DISULFIDE	2.88	76.0	70845	48.03	ug/L	98
11)	ACETONE	3.05	43.0	4674	39.75	ug/L	100
12)	METHYLENE CHLORIDE	3.66	84.0	33712	51.65	ug/L	84
13)	1,2-DICHLOROETHENE (TOTAL)	4.16	96.0	30168	48.26	ug/L	97
14)	ACRYLONITRILE	4.32	53.0	3674	42.53	ug/L	84
15)	T-BUTYL ALCOHOL	4.65	59.0	1823M	52.57	ug/L	
16)	METHYL-T-BUTYLETHER	4.32	73.0	52890	48.78	ug/L	84
17)	1,1-DICHLOROETHANE	5.13	63.0	54511	46.33	ug/L	97
18)	VINYL ACETATE	5.66	43.0	41843	36.04	ug/L	79
19)	1,2-DICHLOROETHENE (CIS)	6.67	96.0	39930	48.23	ug/L	93
20)	2-BUTANONE	6.98	72.0	1539	57.98	ug/L	85
21)	CHLOROFORM	7.62	83.0	72750	48.68	ug/L	95
22)	1,1,1-TRICHLOROETHANE	7.70	97.0	66584	49.89	ug/L	73
23)	CARBON TETRACHLORIDE	8.03	117.0	75472	51.59	ug/L	87
24)	*1,4-DIFLUOROBENZENE	9.83	114.0	111542	50.00	ug/L	73
25)	BENZENE	8.57	78.0	68129	48.58	ug/L	74
26)	1,2-DICHLOROETHANE D4	8.59	65.0	51139	48.82	ug/L	94
27)	1,2-DICHLOROETHANE	8.78	62.0	47461	50.23	ug/L	92
28)	TRICHLOROETHYLENE	10.20	130.0	48203	55.70	ug/L	97
29)	2-CHLOROETHYLVINYLETHER	12.55	63.0	17376	45.53	ug/L	83
30)	1,2-DICHLOROPROPANE	10.69	63.0	31365	46.60	ug/L	96
31)	BROMODICHLOROMETHANE	11.58	83.0	81140	50.29	ug/L	91
32)	*CHLOROBENZENE-D5	16.50	117.0	107073	50.00	ug/L	98
33)	TRANS-1,3-DICHLOROPROPENE	14.09	75.0	18411	16.81	ug/L	94
34)	TOLUENE D8	13.08	98.0	105920	48.79	ug/L	94
35)	TOLUENE	13.23	92.0	49638	47.27	ug/L	95
36)	4-METHYL-2-PENTANONE	13.21	43.0	20837^	40.84	ug/L	61
37)	CIS-1,3-DICHLOROPROPENE	12.63	75.0	82843	75.68	ug/L	97
38)	TETRACHLOROETHYLENE	14.44	164.0	51708	50.62	ug/L	94
39)	1,1,2-TRICHLOROETHANE	14.44	97.0	32982	49.31	ug/L	90
40)	DIBROMOCHLOROMETHANE	15.25	129.0	84777	52.27	ug/L	96
41)	2-HEXANONE	15.27	43.0	15661	42.00	ug/L	82
42)	CHLOROBENZENE	16.57	112.0	77835	48.65	ug/L	80
43)	ETHYLBENZENE	16.98	106.0	33363	47.95	ug/L	98

	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	STYRENE	18.36	104.0	70760	47.67	ug/L	95
45)	XYLENE	17.31	106.0	81952	98.73	ug/L	91
46)	XYLENES (TOTAL)	18.26	106.0	40079^	47.45	ug/L	92
47)	BROMOFORM	18.69	173.0	80151	51.30	ug/L	94
48)	4-BROMOFLUOROBENZENE	19.57	95.0	97824	44.62	ug/L	89
49)	1,1,2,2-TETRACHLOROETHANE	20.32	83.0	51489	44.75	ug/L	97
50)	1,3-DICHLOROBENZENE	22.29	146.0	90625	48.14	ug/L	87
51)	1,4-DICHLOROBENZENE	22.56	146.0	90970	46.84	ug/L	95
52)	1,2-DICHLOROBENZENE	23.45	146.0	86827	47.82	ug/L	88

* Compound is ISTD

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Roy F. Weston, Inc. Contract: 3600-04-90-0000

Case No.: WSI-LE CARPENTER RFW Lot: 9109L758

Instrument ID: 1050W Calibration Date: 09/26/91 Time: 1150

Lab File ID: W092602 Init. Calib. Date(s): 09/03/91 09/03/91

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) PACK

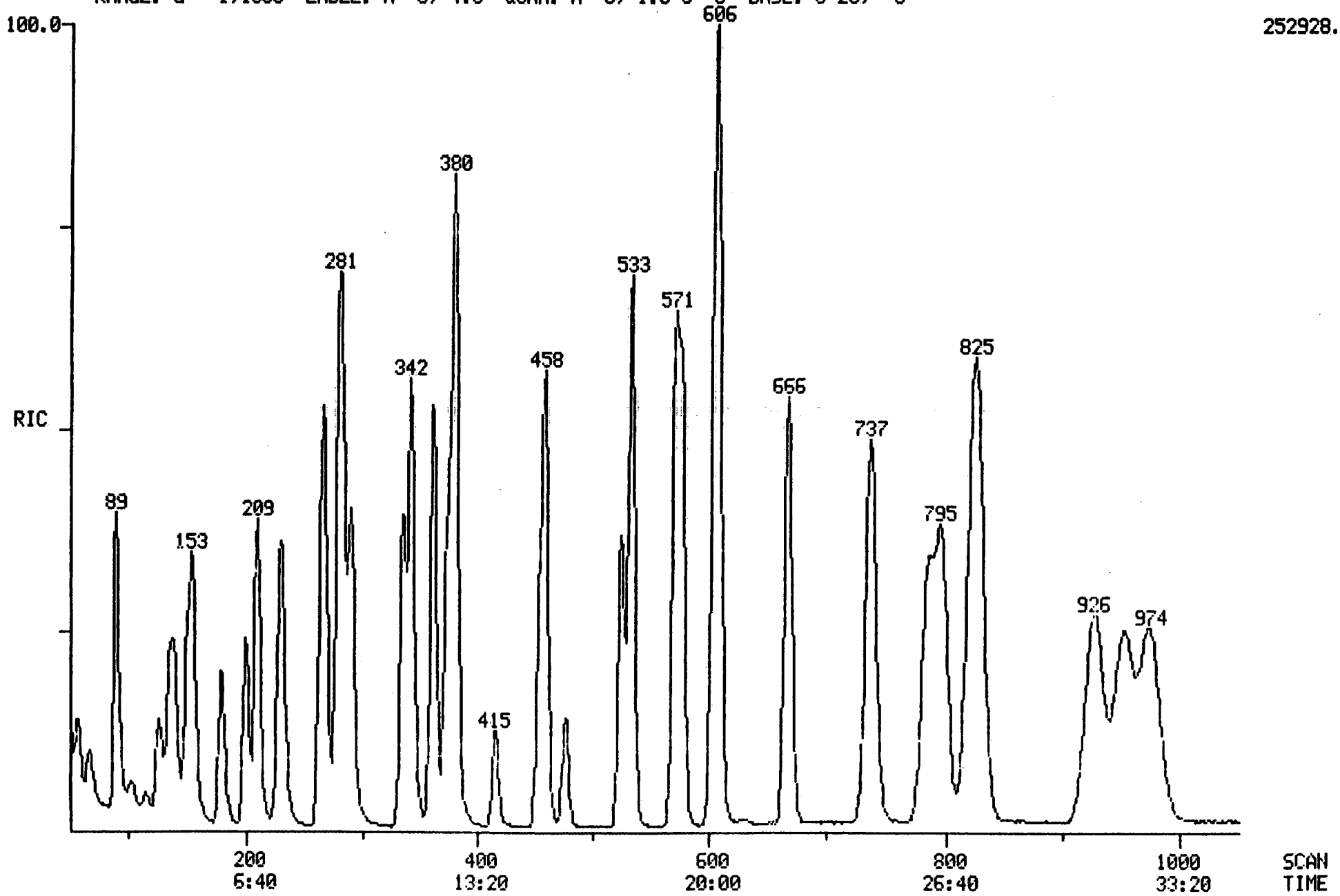
Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform Max %D for CCC(*) = 25.0%

COMPOUND		RRF	RRF50	%D	
Chloromethane	#	0.719	1.011	-40.6	#✓
Bromomethane		1.018	1.350	-32.6	
Vinyl Chloride	*	1.093	1.175	-7.5	*✓
Chloroethane		0.650	0.802	-23.4	
Methylene Chloride		1.132	1.544	-36.4	
1,1-Dichloroethene	*	1.021	1.102	-7.9	*✓
1,1-Dichloroethane	#	2.230	2.177	2.4	#✓
1,2-Dichloroethene (total)		1.105	1.204	-9.0	
Chloroform	*	2.630	2.652	-0.8	*✓
1,2-Dichloroethane		2.440	2.188	10.3	
1,1,1-Trichloroethane		0.598	0.560	6.4	
Carbon Tetrachloride		0.612	0.586	4.2	
Bromodichloromethane		0.547	0.517	5.5	
1,2-Dichloropropane	*	0.313	0.289	7.7	*✓
cis-1,3-Dichloropropene		0.421	0.377	10.5	
Trichloroethene		0.457	0.445	2.6	
Dibromochloromethane		0.535	0.455	15.0	
1,1,2-Trichloroethane		0.274	0.293	-6.9	
Benzene		0.742	0.798	-7.5	
Trans-1,3-Dichloropropene		0.420	0.374	11.0	
2-chloroethylvinylether		0.134	0.128	4.5	
Bromoform	#	0.443	0.311	29.8	#✓
Tetrachloroethene		0.450	0.405	10.0	
1,1,2,2-Tetrachloroethane	#	0.372	0.341	8.3	#✓
Toluene	*	0.586	0.588	-0.3	*✓
Chlorobenzene	#	0.813	0.829	-2.0	#✓
Ethylbenzene	*	0.397	0.388	2.3	*✓
1,2-Dichlorobenzene		0.934	0.786	15.8	
1,3-Dichlorobenzene		0.970	0.404	58.4	
1,4-Dichlorobenzene		1.013	0.751	25.9	
Acrolein		0.130	0.093	28.5	
Acrylonitrile		0.275	0.250	9.1	
Trichlorofluoromethane		3.336	3.720	-11.5	
Xylene (total)		0.425	0.403	5.2	
Toluene-d8		1.056	1.027	2.7	
Bromofluorobenzene		0.791	0.786	0.6	
1,2-Dichloroethane-d4		2.742	2.401	12.4	

RIC
09/26/91 11:50:00
SAMPLE: VSTD50 LOW WATER CCL
CONDS.: 1050W, VO, METHOD 2
RANGE: G 1,1050 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: W092602 #1
CALI: W092602 #2

SCANS 50 TO 1050



000020 3

Quantitation Report File: W092602

Data: W092602.TI
09/26/91 11:50:00
Sample: VSTD50 LOW WATER CCL
Conds.: 1050W, VO, METHOD 2
Formula: W092601 Instrument: 1050W Weight: 0.008
Submitted by: Analyst: PSS Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	IS1	BROMOCHLOROMETHANE	INTERNAL STANDARD #1
2	SS1	1,2-DICHLOROETHANE D4	SURROGATE STANDARD#1
3	45V	CHLOROMETHANE	
4	46V	BROMOMETHANE	
5	88V	VINYL CHLORIDE	
6	16V	CHLOROETHANE	
7	44V	METHYLENE CHLORIDE	
8	13H	ACETONE	
9	21H	ACROLEIN	
10	15H	CARBON DISULFIDE	
11	24H	TRICHLOROFLUOROMETHANE	
12	22H	ACRYLONITRILE	
13	29V	1,1-DICHLOROETHYLENE	
14	13V	1,1-DICHLOROETHANE	
15		1,2-DICHLOROETHENE (TOTAL)	
16	23V	CHLOROFORM	
17	10V	1,2-DICHLOROETHANE	
18	IS2	1,4-DIFLUOROBENZENE	INTERNAL STANDARD #2
19	14H	2-BUTANONE	
20	11V	1,1,1-TRICHLOROETHANE	
21	6V	CARBON TETRACHLORIDE	
22	19H	VINYL ACETATE	
23	48V	BROMODICHLOROMETHANE	
24	32V	1,2-DICHLOROPROPANE	
25	33VC	CIS-1,3-DICHLOROPROPENE	
26		TRICHLOROETHYLENE	
27	51V	DIBROMOCHLOROMETHANE	
28	14V	1,1,2-TRICHLOROETHANE	
29	4V	BENZENE	
30	33VT	TRANS-1,3-DICHLOROPROPENE	
31		2-CHLOROETHYLVINYLETHER	
32	47V	BROMOFORM	
33	IS3	CHLOROBENZENE D5	INTERNAL STANDARD #3
34	SS2	TOLUENE D8	SURROGATE STANDARD #2
35	SS3	4-BROMOFLUOROBENZENE	SURROGATE STANDARD #3
36	17H	4-METHYL-2-PENTANONE	
37	16H	2-HEXANONE	
38	85V	TETRACHLOROETHYLENE	
39	15V	1,1,2,2-TETRACHLOROETHANE	
40	86V	TOLUENE	
41	7V	CHLOROBENZENE	
42	38V	ETHYLBENZENE	
43	18H	STYRENE	
44		XYLENES (TOTAL)	
45	26B	1,3-DICHLOROBENZENE	
46	25B	1,2-DICHLOROBENZENE	
47	27B	1,4-DICHLOROBENZENE	

No	Name
48	XYLENES
49	METHYL-T-BUTYLETHER
50	DIETHYLETHER

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	154	5:08	1	1.000	A BB	52048.	50.000 UG/L	1.89
2	65	229	7:38	1	1.487	A BB	124944.	50.000 UG/L	1.89
3	50	38	1:16	1	0.247	A BB	52637.	50.000 UG/L	1.89
4	94	49	1:38	1	0.318	A BB	70255.	50.000 UG/L	1.89
5	62	57	1:54	1	0.370	A BB	61174.	50.000 UG/L	1.89
6	64	67	2:14	1	0.435	A VB	41766.	50.000 UG/L	1.89
7	84	89	2:58	1	0.578	A BB	80382.	50.000 UG/L	1.89
8	43	102	3:24	1	0.662	A BB	20605.	50.000 UG/L	1.89
9	56	104	3:28	1	0.675	A BB	4845.	50.000 UG/L	1.89
10	76	125	4:10	1	0.812	A BB	127454.	50.000 UG/L	1.89
11	101	137	4:34	1	0.890	A BB	193595.	50.000 UG/L	1.89
12	53	114	3:48	1	0.740	A BB	13026.	50.000 UG/L	1.89
13	96	149	4:58	1	0.968	A BB	57337.	50.000 UG/L	1.89
14	63	178	5:56	1	1.156	A BB	113300.	50.000 UG/L	1.89
15	96	199	6:38	1	1.292	A BB	62678.	50.000 UG/L	1.89
16	83	209	6:58	1	1.357	A BB	138015.	50.000 UG/L	1.89
17	62	232	7:44	1	1.506	A BB	113870.	50.000 UG/L	1.89
18	114	458	15:16	18	1.000	A BB	284659.	50.000 UG/L	1.89
19	72	233	7:46	1	1.513	A BB	5334.	50.000 UG/L	1.89
20	97	268	8:56	18	0.585	A BB	159453.	50.000 UG/L	1.89
21	117	279	9:18	18	0.609	A VB	166917.	50.000 UG/L	1.89
22	43	288	9:36	18	0.629	A BB	123284.	50.000 UG/L	1.89
23	83	291	9:42	18	0.635	A BB	147118.	50.000 UG/L	1.89
24	63	335	11:10	18	0.731	A BB	82321.	50.000 UG/L	1.89
25	75	342	11:24	18	0.747	A BB	173698.	81.000 UG/L	3.06
26	130	361	12:02	18	0.788	A BB	126808.	50.000 UG/L	1.89
27	129	373	12:26	18	0.814	A BB	129572.	50.000 UG/L	1.89
28	97	378	12:36	18	0.825	A BB	83348.	50.000 UG/L	1.89
29	78	380	12:40	18	0.830	A BB	227045.	50.000 UG/L	1.89
30	75	381	12:42	18	0.832	A BB	40405.	19.000 UG/L	0.72
31	63	415	13:50	18	0.906	A BB	36497.	50.000 UG/L	1.89
32	173	453	15:06	18	0.989	A BB	88551.	50.000 UG/L	1.89
33	117	604	20:08	33	1.000	A BB	289767.	50.000 UG/L	1.89
34	98	570	19:00	33	0.944	A BB	297560.	50.000 UG/L	1.89
35	95	737	24:34	33	1.220	A BB	227662.	50.000 UG/L	1.89
36	43	476	15:52	33	0.788	A BB	76508.	50.000 UG/L	1.89
37	43	524	17:28	33	0.868	A BB	58647.	50.000 UG/L	1.89
38	164	533	17:46	33	0.882	A BB	117353.	50.000 UG/L	1.89
39	83	524	17:28	33	0.868	A BB	98796.	50.000 UG/L	1.89
40	92	576	19:12	33	0.954	A BB	170511.	50.000 UG/L	1.89
41	112	608	20:16	33	1.007	A BB	240339.	50.000 UG/L	1.89
42	106	666	22:12	33	1.103	A BB	112342.	50.000 UG/L	1.89
43	104	785	26:10	33	1.300	A BB	186307.	50.000 UG/L	1.89
44	106	825	27:30	33	1.366	A BB	233574.	100.000 UG/L	3.77
45	146	925	30:50	33	1.531	A BB	117064.	50.000 UG/L	1.89
46	146	926	30:52	33	1.533	M XX	227899.	50.000 UG/L	1.89
47	146	952	31:44	33	1.576	M XX	217688.	50.000 UG/L	1.89
48	146	973	32:26	33	1.611	M XX	253370.	50.000 UG/L	1.89
49	73	265	8:50	1	1.721	A BB	136111.	50.000 UG/L	1.89
50	59	211	7:02	1	1.370	A VB	37041.	50.000 UG/L	1.89

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	5:08	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	7:38	1.00	1.487	1.00	50.00	50.00	2.401	2.401	1.00
3	1:16	1.00	0.247	1.00	50.00	50.00	1.011	1.011	1.00
4	1:38	1.00	0.318	1.00	50.00	50.00	1.350	1.350	1.00
5	1:54	1.00	0.370	1.00	50.00	50.00	1.175	1.175	1.00
6	2:14	1.00	0.435	1.00	50.00	50.00	0.802	0.802	1.00
7	2:58	1.00	0.578	1.00	50.00	50.00	1.544	1.544	1.00
8	3:24	1.00	0.662	1.00	50.00	50.00	0.396	0.396	1.00
9	3:28	1.00	0.675	1.00	50.00	50.00	0.093	0.093	1.00
10	4:10	1.00	0.812	1.00	50.00	50.00	2.449	2.449	1.00
11	4:34	1.00	0.890	1.00	50.00	50.00	3.720	3.720	1.00
12	3:48	1.00	0.740	1.00	50.00	50.00	0.250	0.250	1.00
13	4:58	1.00	0.968	1.00	50.00	50.00	1.102	1.102	1.00
14	5:56	1.00	1.156	1.00	50.00	50.00	2.177	2.177	1.00
15	6:38	1.00	1.292	1.00	50.00	50.00	1.204	1.204	1.00
16	6:58	1.00	1.357	1.00	50.00	50.00	2.652	2.652	1.00
17	7:44	1.00	1.506	1.00	50.00	50.00	2.188	2.188	1.00
18	15:16	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
19	7:46	1.00	1.513	1.00	50.00	50.00	0.102	0.102	1.00
20	8:56	1.00	0.585	1.00	50.00	50.00	0.560	0.560	1.00
21	9:18	1.00	0.609	1.00	50.00	50.00	0.586	0.586	1.00
22	9:36	1.00	0.629	1.00	50.00	50.00	0.433	0.433	1.00
23	9:42	1.00	0.635	1.00	50.00	50.00	0.517	0.517	1.00
24	11:10	1.00	0.731	1.00	50.00	50.00	0.289	0.289	1.00
25	11:24	1.00	0.747	1.00	81.00	81.00	0.377	0.377	1.00
26	12:02	1.00	0.788	1.00	50.00	50.00	0.445	0.445	1.00
27	12:26	1.00	0.814	1.00	50.00	50.00	0.455	0.455	1.00
28	12:36	1.00	0.825	1.00	50.00	50.00	0.293	0.293	1.00
29	12:40	1.00	0.830	1.00	50.00	50.00	0.798	0.798	1.00
30	12:42	1.00	0.832	1.00	19.00	19.00	0.374	0.374	1.00
31	13:50	1.00	0.906	1.00	50.00	50.00	0.128	0.128	1.00
32	15:06	1.00	0.989	1.00	50.00	50.00	0.311	0.311	1.00
33	20:08	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
34	19:00	1.00	0.944	1.00	50.00	50.00	1.027	1.027	1.00
35	24:34	1.00	1.220	1.00	50.00	50.00	0.786	0.786	1.00
36	15:52	1.00	0.788	1.00	50.00	50.00	0.264	0.264	1.00
37	17:28	1.00	0.868	1.00	50.00	50.00	0.202	0.202	1.00
38	17:46	1.00	0.882	1.00	50.00	50.00	0.405	0.405	1.00
39	17:28	1.00	0.868	1.00	50.00	50.00	0.341	0.341	1.00
40	19:12	1.00	0.954	1.00	50.00	50.00	0.588	0.588	1.00
41	20:16	1.00	1.007	1.00	50.00	50.00	0.829	0.829	1.00
42	22:12	1.00	1.103	1.00	50.00	50.00	0.388	0.388	1.00
43	26:10	1.00	1.300	1.00	50.00	50.00	0.643	0.643	1.00
44	27:30	1.00	1.366	1.00	100.00	100.00	0.403	0.403	1.00
45	30:50	1.00	1.531	1.00	50.00	50.00	0.404	0.404	1.00
46	30:52	1.00	1.533	1.00	50.00	50.00	0.786	0.786	1.00
47	31:44	1.00	1.576	1.00	50.00	50.00	0.751	0.751	1.00
48	32:26	1.00	1.611	1.00	50.00	50.00	0.874	0.874	1.00
49	8:50	1.00	1.721	1.00	50.00	50.00	2.615	2.615	1.00
50	7:02	1.00	1.370	1.00	50.00	50.00	0.712	0.712	1.00

Quantitation Report File: W092602

Data: W092602.TI
09/26/91 11:50:00
Sample: VSTD50 LOW WATER CCL
Conds.: 1050W, VO, METHOD 2
Formula: W092601 Instrument: 1050W Weight: 0.008
Submitted by: Analyst: PSS Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
51	T-BUTYL ALCOHOL
52	CYCLOHEXANE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	59	184	6:08	1	1.195	A BB	5202.	50.000 UG/L	1.89
52	84	282	9:24	1	1.831	A VB	146056.	50.000 UG/L	1.89

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	6:08	1.00	1.195	1.00	50.00	50.00	0.100	0.100	1.00
52	9:24	1.00	1.831	1.00	50.00	50.00	2.806	2.806	1.00

8A

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: Roy F. Weston, Inc. Contract: 3600-04-90-0000

Case No.: WSI-LE CARPENTER RFW Lot: 9109L758

Lab File ID (Standard): AK9Q04 Date Analyzed: 09/26/91

Instrument ID: HP-MSD K Time Analyzed: 1404

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

		IS1(BCM) AREA #	RT	IS2(DFB) AREA #	RT	IS3(CBZ) AREA #	RT
	12 HOUR STD	30607	7.25	116752	9.89	112699	16.56
	UPPER LIMIT	61214	7.75	233504	10.39	225398	17.06
	LOWER LIMIT	15304	6.75	58376	9.39	56350	16.06
	CLIENT SAMPLE NO.						
01	MW-1	25863	7.24	102683	9.83	97375	16.52
02	VBLKLVK168-MB1	30498	7.24	115662	9.88	114111	16.55

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

8A

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: Roy F. Weston, Inc. Contract: 3600-04-90-0000

Case No.: WSI-LE CARPENTER RFW Lot: 9109L758

Lab File ID (Standard): AK9R04 Date Analyzed: 09/27/91

Instrument ID: HP-MSD K Time Analyzed: 1222

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

		IS1(BCM) AREA #	RT	IS2(DFB) AREA #	RT	IS3(CBZ) AREA #	RT
	12 HOUR STD	30426	7.21	111542	9.83	107073	16.50
	UPPER LIMIT	60852	7.71	223084	10.33	214146	17.00
	LOWER LIMIT	15213	6.71	55771	9.33	53537	16.00
	CLIENT SAMPLE NO.						
01	MW-2DL	28749	7.20	112726	9.82	104392	16.49
02	MW-3	26650	7.25	101008	9.87	93988	16.54
03	VBLKLVK169-MB1	30199	7.19	111953	9.82	111447	16.52

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

8A

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: Roy F. Weston, Inc. Contract: 3600-04-90-0000

Case No.: WSI-LE CARPENTER RFW Lot: 9109L758

Lab File ID (Standard): AK9S02 Date Analyzed: 09/28/91

Instrument ID: HP-MSD K Time Analyzed: 1241

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

		IS1(BCM) AREA #	RT	IS2(DFB) AREA #	RT	IS3(CBZ) AREA #	RT
	12 HOUR STD	33345	7.25	126964	9.85	120354	16.53
	UPPER LIMIT	66690	7.75	253928	10.35	240708	17.03
	LOWER LIMIT	16673	6.75	63482	9.35	60177	16.03
	CLIENT SAMPLE NO.						
01	MW-2	31442	7.27	120820	9.88	96053	16.56
02	MW-4	28759	7.25	111328	9.87	107106	16.54
03	VBLKLVK170-MB1	33264	7.24	124634	9.88	117442	16.55

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

8A

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: Roy F. Weston, Inc. Contract: 3600-04-90-0000

Case No.: WSI-LE CARPENTER RFW Lot: 9109L758

Lab File ID (Standard): W092402 Date Analyzed: 09/24/91

Instrument ID: 1050W Time Analyzed: 1044

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) PACK

		IS1(BCM) AREA #	RT	IS2(DFB) AREA #	RT	IS3(CBZ) AREA #	RT
	12 HOUR STD	46933	5.10	259701	15.20	260419	20.07
	UPPER LIMIT	93866	5.60	519402	15.70	520838	20.57
	LOWER LIMIT	23467	4.60	129851	14.70	130210	19.57
	CLIENT SAMPLE NO.						
01	TRIP BLANK	39475	5.07	230687	15.30	222092	20.17
02	VBLKLVW155-MB1	44596	5.10	231372	15.27	224339	20.13

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

8A

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: Roy F. Weston, Inc. Contract: 3600-04-90-0000

Case No.: WSI-LE CARPENTER RFW Lot: 9109L758

Lab File ID (Standard): W092505 Date Analyzed: 09/25/91

Instrument ID: 1050W Time Analyzed: 1251

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) PACK

		IS1(BCM) AREA #	RT	IS2(DFB) AREA #	RT	IS3(CBZ) AREA #	RT
	12 HOUR STD	46820	5.07	271385	15.27	267805	20.13
	UPPER LIMIT	93640	5.57	542770	15.77	535610	20.63
	LOWER LIMIT	23410	4.57	135693	14.77	133903	19.63
	CLIENT SAMPLE NO.						
01	MW-5	41950	5.03	223540	15.20	222688	20.07
02	MW-5MS	45890	5.07	249034	15.30	246961	20.13
03	FIELD BLANK	43617	5.03	235258	15.27	232507	20.13
04	VBLKLVW156-MB1	44337	5.10	236735	15.30	231999	20.13

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

8A

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: Roy F. Weston, Inc. Contract: 3600-04-90-0000

Case No.: WSI-LE CARPENTER RFW Lot: 9109L758

Lab File ID (Standard): W092602 Date Analyzed: 09/26/91

Instrument ID: 1050W Time Analyzed: 1150

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) PACK

		IS1(BCM) AREA #	RT	IS2(DFB) AREA #	RT	IS3(CBZ) AREA #	RT
	12 HOUR STD	52048	5.13	284659	15.27	289767	20.13
	UPPER LIMIT	104096	5.63	569318	15.77	579534	20.63
	LOWER LIMIT	26024	4.63	142330	14.77	144884	19.63
	CLIENT SAMPLE NO.						
01	MW-5MSD	47017	5.13	235043	15.33	239365	20.20
02	VBLKLVW157-MB1	45768	5.10	241678	15.30	238218	20.17

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

WESTON

V. Raw QC Data Package

A. GC/MS Tuning and Calibration Standard: DFTPP

1. Bar Graph
2. Mass Listing

B. Blank Data

1. Tabulated Results (Form 1)
2. TIC Results (Form 1B)
3. Raw Data
   a. Reconstructed Ion Chromatogram(s) and Quantitation Report(s)
   b. HSL Spectra
   c. TIC Spectra
   d. GC/MS Library Search for TIC

C. Matrix Spike Data

1. Tabulated Results (Form 1)
2. Raw Data
   a. Reconstructed Ion Chromatogram(s)
   b. Quantitation Report(s)

>K9D05 BFB 50NG AK9D05 K8CA 5PT H2O
263 NRM

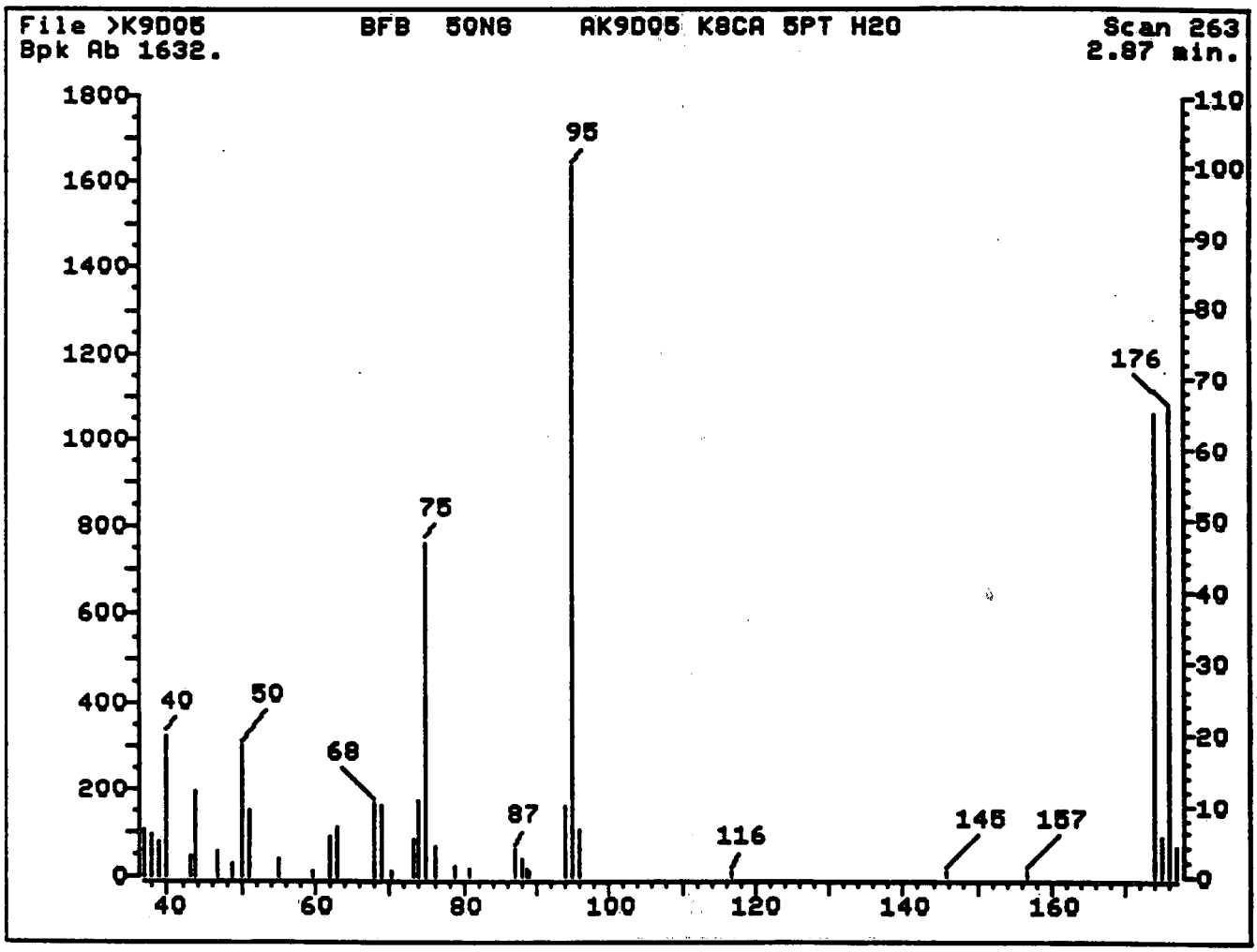
File: >K9D05 Scan #: 263 Retn. time: 2.87

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
36.95	6.556	50.00	18.321	70.10	.858	86.95	3.738	116.65	.613
37.95	5.699	50.90	9.130	73.05	5.025	87.90	2.328	145.65	.613
38.90	4.902	54.95	2.574	73.85	10.478	88.60	1.225	156.85	.674
39.90	19.792	59.80	.735	74.95	46.814	88.90	.613	173.95	65.074
43.00	2.880	62.00	5.576	76.05	4.044	93.95	9.865	174.95	5.515
43.95	11.887	63.00	6.679	78.80	1.593	95.05	100.000	175.95	65.625
46.75	3.493	67.85	10.172	80.90	1.103	95.95	6.618	176.95	4.167
48.90	1.777	68.80	9.865						

MS data file header from : >K9D05

Sample: BFB 50NG AK9D05 Operator: RSL SUPER GRP. 9/13/91 13:23
Misc : K8CA 5PT H2O #HP-MSD K RSL
Sys. #: 2 MS model: 70 SW/HW rev.: IA ALS # : 0
Method file: BFBK Tuning file: MT_K9D No. of extra records: 2
Source temp.: 0 Analyzer temp.: 250 Transfer line temp. : 0

Chromatographic temperatures :	80.	200.	0.	0.	0.
Chromatographic times, min. :	0.0	10.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	10.0	0.0	0.0	0.0	0.0



>K9Q03 BFB 50NG AK9Q03K9DA 5PT H2O
264 NRM

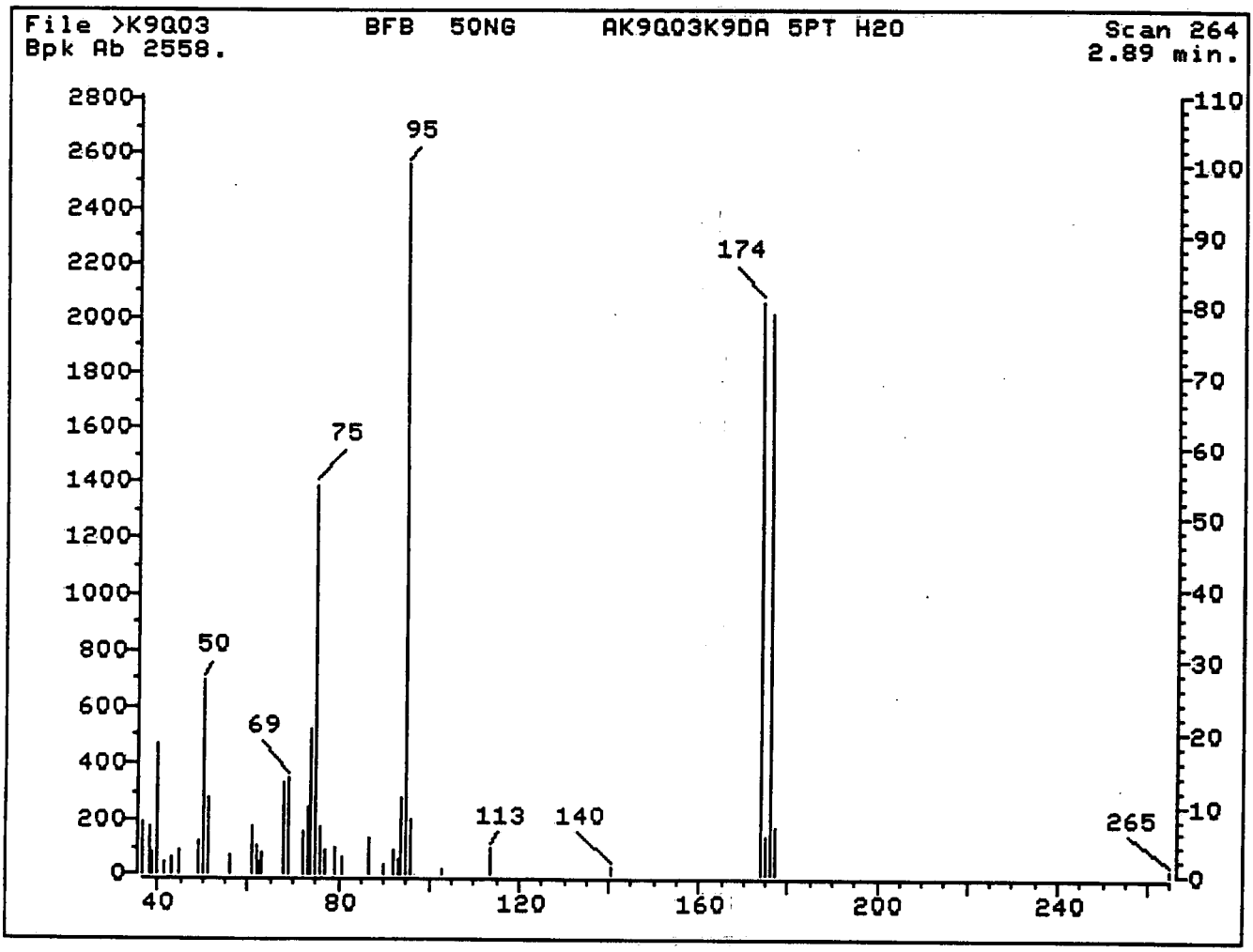
File: >K9Q03 Scan #: 264 Retn. time: 2.89

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
36.75	7.467	49.90	26.974	68.90	13.487	80.70	2.463	102.70	.704
38.05	6.959	50.90	10.907	72.00	6.255	86.75	5.317	113.35	3.636
38.60	2.033	55.85	2.815	72.95	9.500	89.80	1.368	140.60	1.016
38.90	3.206	61.00	6.802	73.95	20.250	91.90	3.518	173.85	80.571
40.00	18.178	61.90	4.222	74.95	54.261	92.90	2.072	174.75	5.434
41.50	1.798	62.60	1.798	75.95	6.841	93.85	10.790	175.85	78.851
43.05	2.306	63.00	3.088	76.85	3.557	94.85	100.000	176.95	6.802
44.95	3.323	67.95	12.979	78.90	3.870	96.05	7.780	264.95	.625
48.90	4.769								

MS data file header from : >K9Q03

Sample: BFB 50NG AK9Q03 Operator: RSL SUPER GRP. 9/26/91 13:35
Misc : K9DA 5PT H2O #HP-MSD K RSL
Sys. #: 2 MS model: 70 SW/HW rev.: IA ALS # : 0
Method file: BFBK Tuning file: MT_K9Q No. of extra records: 2
Source temp.: 0 Analyzer temp.: 250 Transfer line temp. : 0

Chromatographic temperatures :	80.	200.	0.	0.	0.
Chromatographic times, min. :	0.0	10.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	10.0	0.0	0.0	0.0	0.0



>K9R02 BFB 50NG AK9R02K9DA 5PT H2O
260 NRM ENH

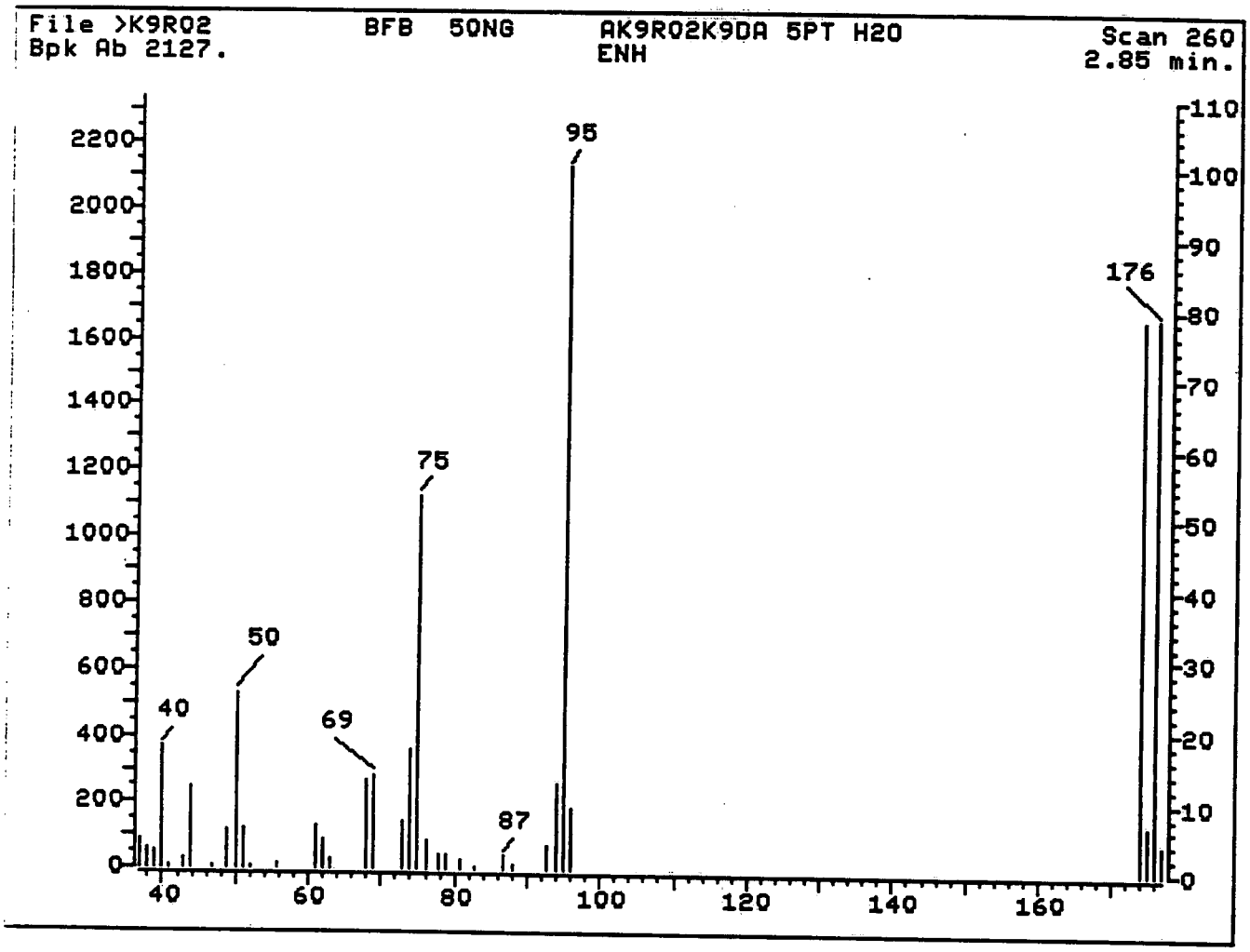
File: >K9R02 Scan #: 260 Retn. time: 2.85

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
36.95	4.015	48.80	5.350	62.90	1.373	77.95	2.191	93.85	12.185
37.85	2.623	50.00	24.868	67.95	12.580	78.90	2.228	94.95	100.000
39.00	2.473	51.00	5.716	68.90	13.294	80.80	1.344	95.95	8.866
39.90	17.187	51.90	.282	72.80	6.704	82.70	.282	173.85	78.516
40.80	.508	55.75	.884	73.95	17.131	86.85	2.040	174.75	6.948
42.90	1.439	60.90	6.036	74.95	52.896	87.90	.780	175.95	78.676
43.95	11.414	61.90	4.297	76.15	4.184	92.80	3.404	176.95	4.165
46.85	.357								

MS data file header from : >K9R02

Sample: BFB 50NG AK9R02 Operator: RSL SUPER GRP. 9/27/91 11:02
Misc : K9DA 5PT H2O #HP-MSD K RSL
Sys. #: 2 MS model: 70 SW/HW rev.: IA ALS # : 0
Method file: BFBK Tuning file: MT_K9R No. of extra records: 2
Source temp.: 0 Analyzer temp.: 250 Transfer line temp. : 0

Chromatographic temperatures :	80.	200.	0.	0.	0.
Chromatographic times, min. :	0.0	10.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	10.0	0.0	0.0	0.0	0.0



>K9S01 BFB 50NG AK9S01K9DA 5PT H2O BFB TUNE
133 NRM ENH

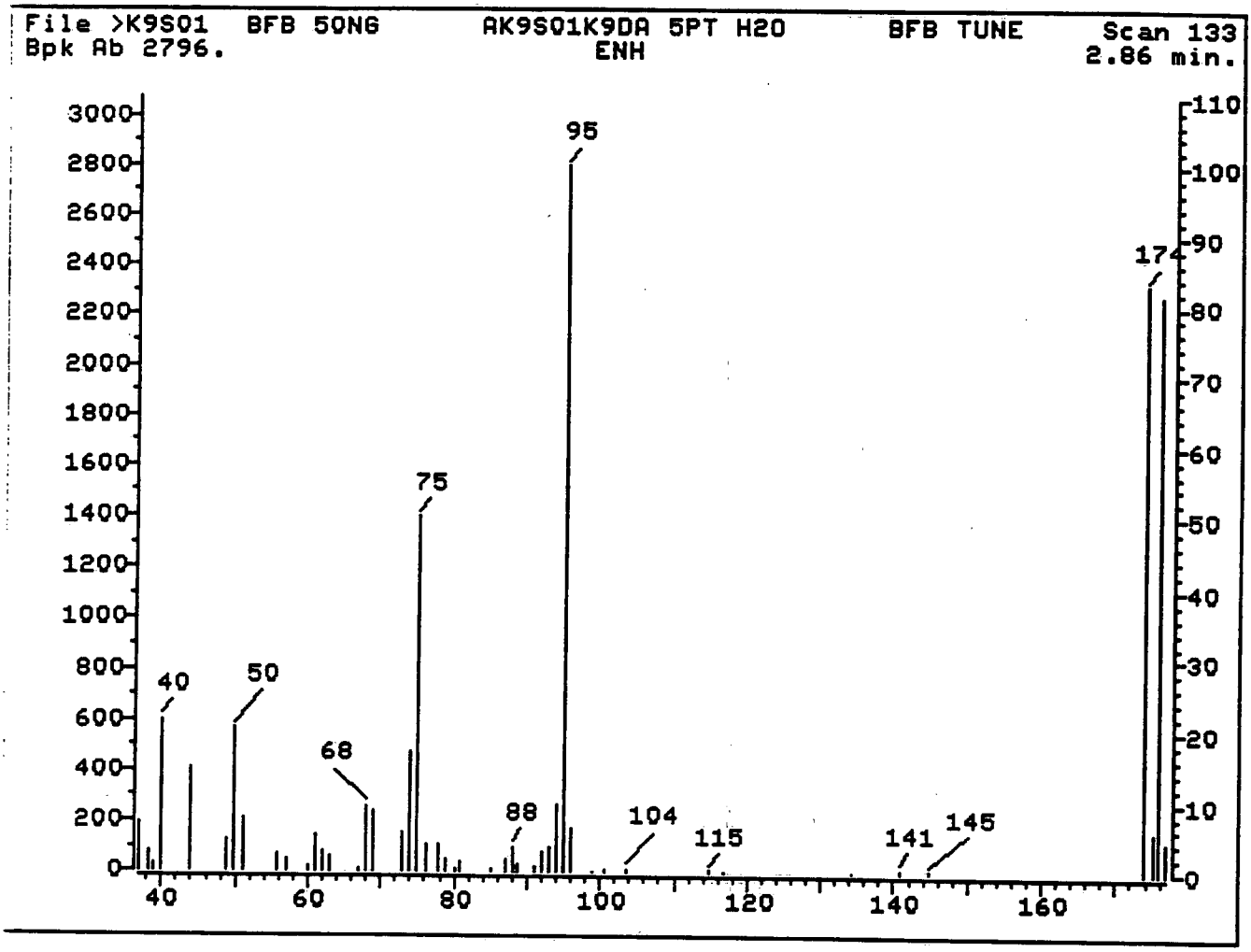
File: >K9S01 Scan #: 133 Retn. time: 2.86

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
37.00	6.796	59.95	.916	76.10	3.677	90.95	.923	114.90	.258
38.10	2.947	60.85	5.194	77.95	3.763	91.85	2.740	116.70	.193
38.95	1.231	61.95	2.747	78.85	1.710	92.90	3.312	134.10	.129
39.95	21.391	62.95	2.189	80.05	.372	94.00	9.465	140.75	.565
44.00	14.659	66.90	.579	80.85	1.574	95.00	100.000	144.80	.358
48.95	4.536	68.00	9.293	85.00	.308	96.00	6.009	173.90	83.202
49.95	20.232	68.95	8.513	87.00	1.817	99.05	.107	175.00	5.745
50.95	7.555	73.00	5.473	87.90	3.591	100.75	.365	175.90	81.578
55.80	2.318	74.00	16.891	88.45	.601	103.70	.565	176.90	4.378
57.00	1.917	75.00	49.936	88.75	1.002				

MS data file header from : >K9S01

Sample: BFB 50NG AK9S01 Operator: RSL SUPER GRP. 9/28/91 12:23
Misc : K9DA 5PT H2O BFB TUNE #HP-MSD K RSL
Sys. #: 2 MS model: 70 SW/HW rev.: IA ALS # : 0
Method file: BFB Tuning file: MT_K9S No. of extra records: 2
Source temp.: 0 Analyzer temp.: 250 Transfer line temp. : 0

Chromatographic temperatures :	80.	200.	0.	0.	0.
Chromatographic times, min. :	0.0	10.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	10.0	0.0	0.0	0.0	0.0



Mass List
09/03/91 14:51:00 + 7:44
Sample: BFB50NG TUNE CHECK
Conds.: 1050W, BF, METHOD 1

Data: W090308 # 232
Cali: W090308 # 2

Base m/z: 95
RIC: 41152.

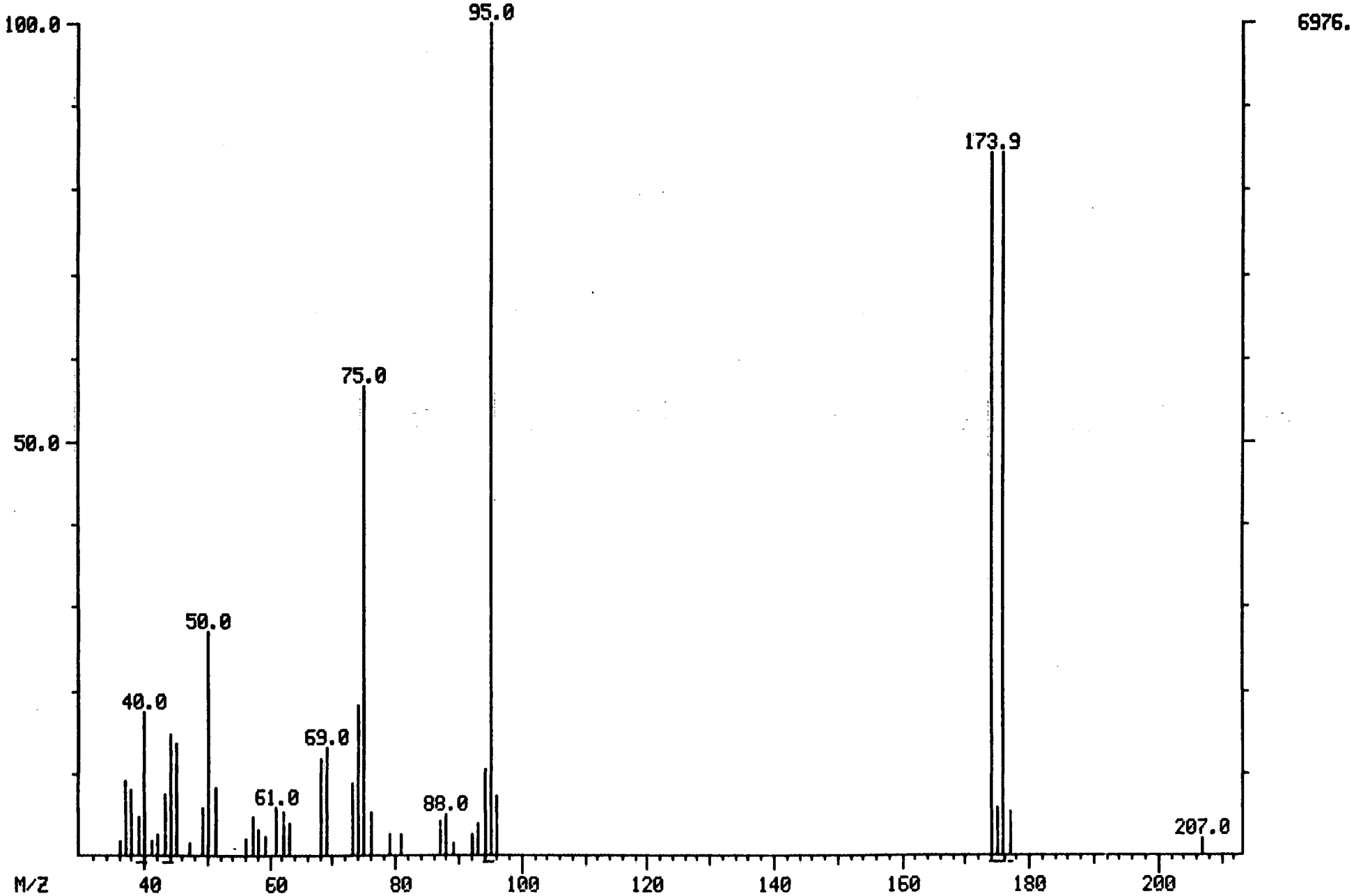
36 0.00 0.00 0. Minima Min inten: 0.
207 # 0 Maxima

Mass	% RA	% RIC	Inten.
36.00?	1.75	0.30	122.
37.05?	9.12	1.55	636.
38.04?	7.94	1.35	554.
39.07?F	4.79	0.81	334.
39.99?F	17.55	2.97	1224.
41.05?	1.83	0.31	128.
42.04?	2.81	0.48	196.
43.05?F	7.43	1.26	518.
44.02?F	14.71	2.49	1026.
45.07?	13.82	2.34	964.
47.05?	1.55	0.26	108.
49.04?	6.03	1.02	421.
50.04?	27.15	4.60	1894.
51.05?	8.43	1.43	588.
56.04?	2.28	0.39	159.
57.04?	4.77	0.81	333.
58.04?	3.30	0.56	230.
59.06?	2.38	0.40	166.
61.02?	5.89	1.00	411.
62.05?	5.38	0.91	375.
63.05?	4.07	0.69	284.
68.03?	11.94	2.02	833.
69.03	13.07	2.22	912.
73.03	8.99	1.52	627.
74.04	18.26	3.10	1274.
75.04	56.65	9.60	3952.
76.05	5.36	0.91	374.
78.95	2.72	0.46	190.
80.94	2.64	0.45	184.
87.01	4.26	0.72	297.
88.01	5.07	0.86	354.
89.12	1.59	0.27	111.
92.03	2.74	0.46	191.
93.02	4.14	0.70	289.
94.04 F	10.36	1.76	723.
95.04 F	100.00	16.95	6976.
96.03	7.37	1.25	514.
173.92 F	84.29	14.29	5880.
174.94 F	5.85	0.99	408.
175.92 F	84.29	14.29	5880.
176.94 F	5.26	0.89	367.
207.00	2.19	0.37	153.

MASS SPECTRUM
09/03/91 14:51:00 + 7:44
SAMPLE: BFB50NG TUNE CHECK
CONDS.: 1050W, BF, METHOD 1
GC TEMP: 208 DEG. C

DATA: W090308 #232
CALI: W090308 #2

BASE M/Z: 95
RIC: 41152.



0000229

Mass List
09/24/91 10:28:00 + 7:40
Sample: BFB50NG TUNE CHECK
Conds.: 1050W, BF, METHOD 1
#229 to #231 Summed - #50

Data: W092401 # 230
Cali: W092401 # 2

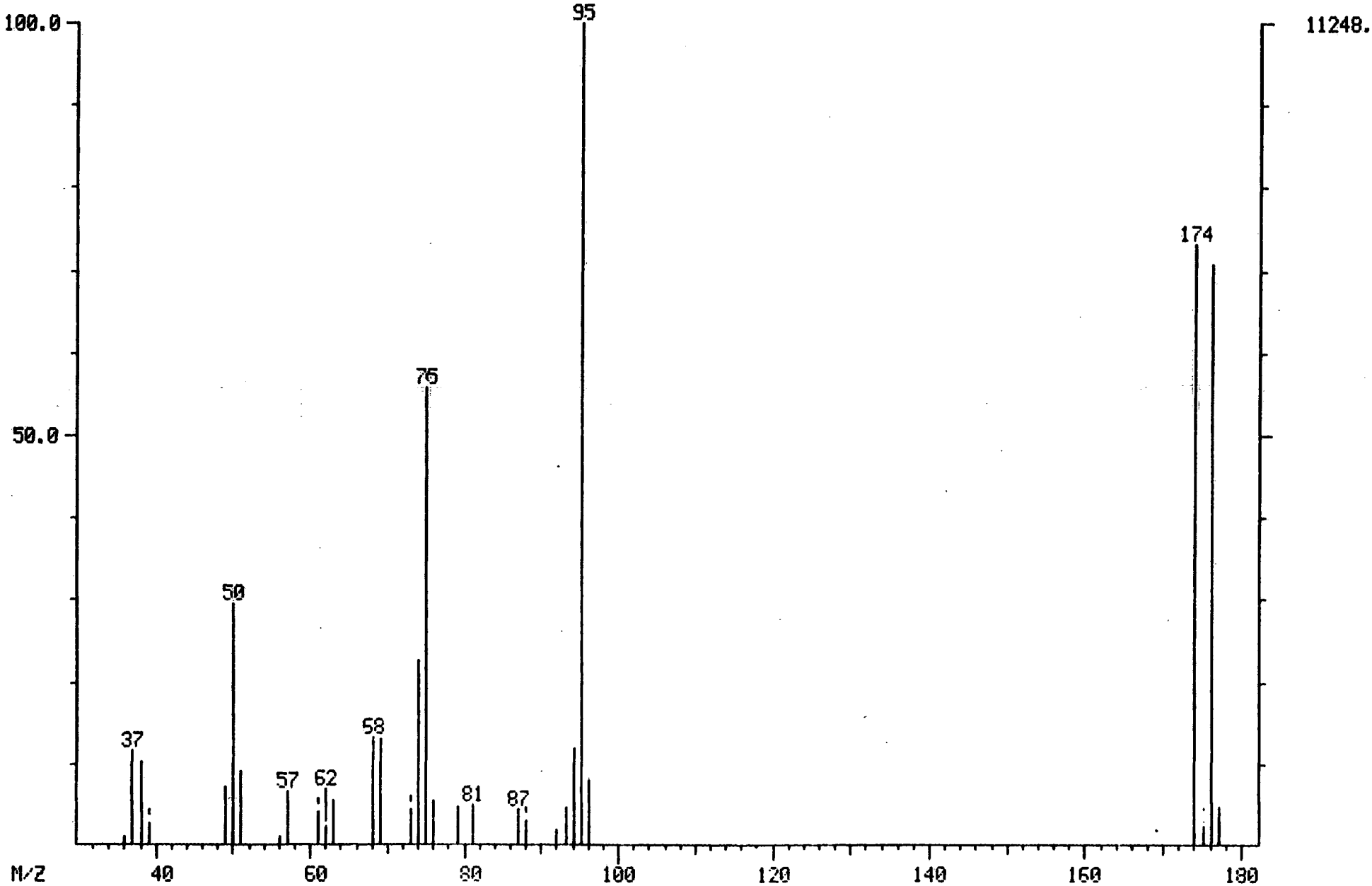
Base m/z: 95
RIC: 57024.

36		0.00	0.00	0.	Minima	Min inten: 0.
177				# 0	Maxima	
Mass		% RA	% RIC	Inten.		
36.00?		0.97	0.19	109.		
37.00?		11.50	2.27	1294.		
38.00?		10.19	2.01	1146.		
39.00?	S	2.72	0.54	306.		
49.00?		7.19	1.42	809.		
50.00?		29.48	5.82	3316.		
51.00?		9.19	1.81	1034.		
56.00?		1.03	0.20	116.		
57.00?		6.61	1.30	744.		
61.00?	S	4.13	0.81	464.		
62.00?		6.86	1.35	772.		
63.00?		5.49	1.08	617.		
68.00?		13.28	2.62	1494.		
69.00		13.00	2.56	1462.		
73.00	S	4.40	0.87	495.		
74.00		22.58	4.45	2540.		
75.00	S	55.69	10.98	6264.		
76.00		5.49	1.08	617.		
79.00		4.56	0.90	513.		
81.00		4.94	0.98	556.		
87.00		4.54	0.90	511.		
88.00	S	3.03	0.60	341.		
92.00		1.96	0.39	220.		
93.00		4.83	0.95	543.		
94.00		11.79	2.33	1326.		
95.00		100.00	19.73	11248.		
96.00		7.91	1.56	890.		
174.00		73.26	14.45	8240.		
175.00		4.60	0.91	517.		
176.00		70.84	13.97	7968.		
177.00		4.59	0.90	516.		

MASS SPECTRUM
09/24/91 10:28:00 + 7:40
SAMPLE: BFB50NG TUNE CHECK
CONDS.: 1050W, BF, METHOD 1
GC TEMP: 207 DEG. C
#229 TO #231 SUMMED - #50

DATA: W092401 #230
CALI: W092401 #2

BASE M/Z: 95
RIC: 57024.



000023 1

Mass List
09/25/91 12:37:00 + 7:44
Sample: BFB50NG TUNE CHECK
Conds.: 1050W, BF, METHOD 2
#232 to #233 Summed - #51

Data: W092504 # 232
Cali: W092504 # 2

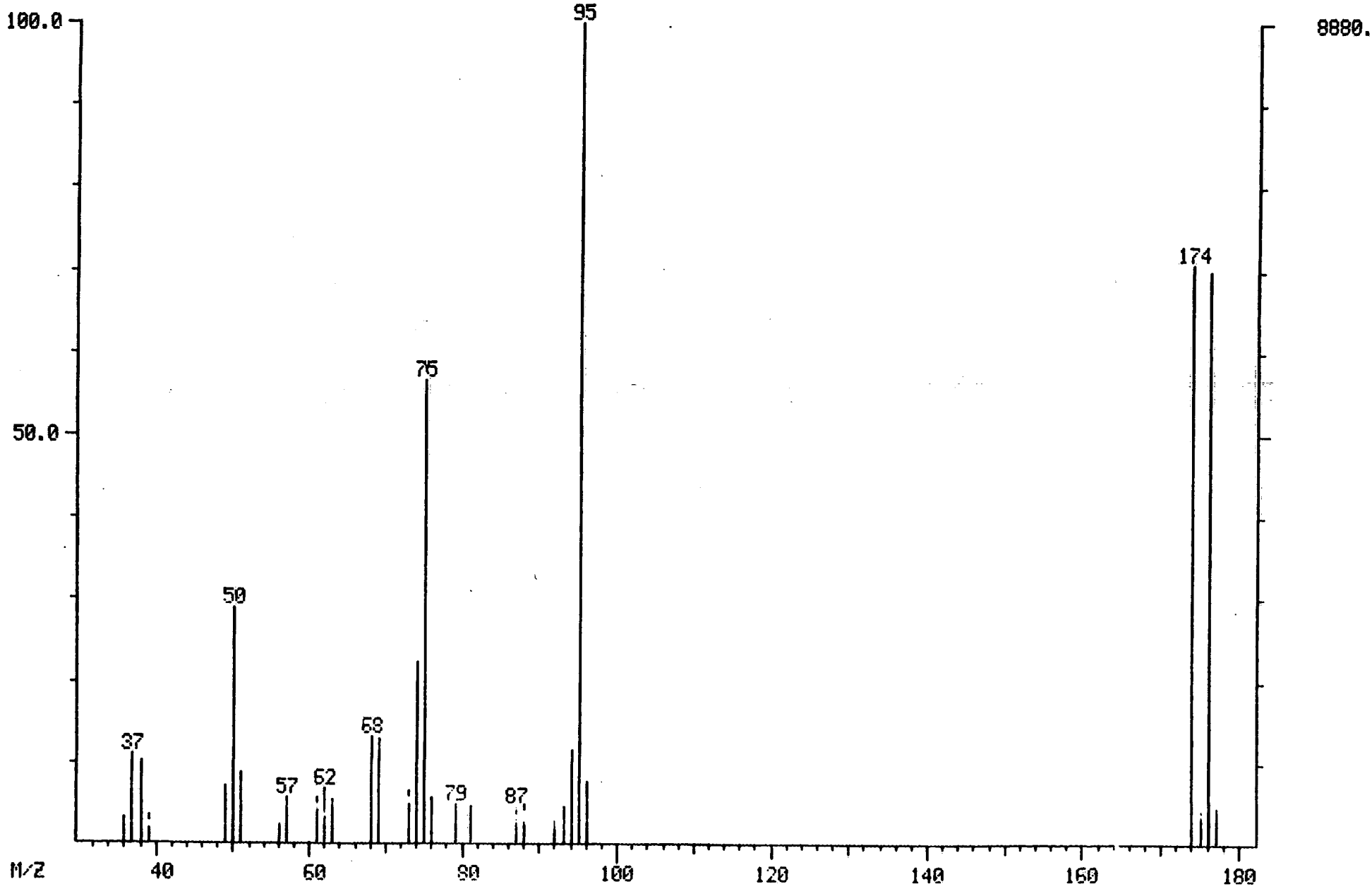
Base m/z: 95
RIC: 45184.

36		0.00	0.00	0.	Minima	Min inten: 0.
177				# 0	Maxima	
Mass		% RA	% RIC	Inten.		
36.00?		3.19	0.63	283.		
37.00?		11.01	2.16	978.		
38.00?		10.32	2.03	916.		
39.00?	S	2.02	0.40	179.		
49.00?		7.15	1.41	635.		
50.00?		29.14	5.73	2588.		
51.00?		8.85	1.74	786.		
56.00?		2.48	0.49	220.		
57.00?		5.66	1.11	503.		
61.00?	S	4.18	0.82	371.		
62.00?		7.00	1.38	622.		
63.00?		5.42	1.06	481.		
68.00?		13.29	2.61	1180.		
69.00		12.91	2.54	1146.		
73.00	S	5.01	0.98	445.		
74.00		22.25	4.37	1976.		
75.00	S	56.76	11.15	5040.		
76.00		5.79	1.14	514.		
79.00		4.97	0.98	441.		
81.00		4.82	0.95	428.		
87.00		4.77	0.94	424.		
88.00	S	3.28	0.64	291.		
92.00		3.14	0.62	279.		
93.00		4.63	0.91	411.		
94.00		11.52	2.26	1023.		
95.00		100.00	19.65	8880.		
96.00		7.70	1.51	684.		
174.00		70.81	13.92	6288.		
175.00		4.75	0.93	422.		
176.00		70.00	13.76	6216.		
177.00		4.74	0.93	421.		

MASS SPECTRUM
09/25/91 12:37:00 + 7:44
SAMPLE: BFB50NG TUNE CHECK
CONDS.: 1050W, BF, METHOD 2
GC TEMP: 207 DEG. C
#232 TO #233 SUMMED - #51

DATA: W092504 #232
CALI: W092504 #2

BASE M/Z: 95
RIC: 45184.



0000233

Mass List
09/26/91 11:33:00 + 7:40
Sample: BFB50NG TUNE CHECK
Conds.: 1050W, BF, METHOD 1
#230 to #231 Summed - #49

Data: W092601 # 230
Cali: W092601 # 2

Base m/z: 95
RIC: 37760.

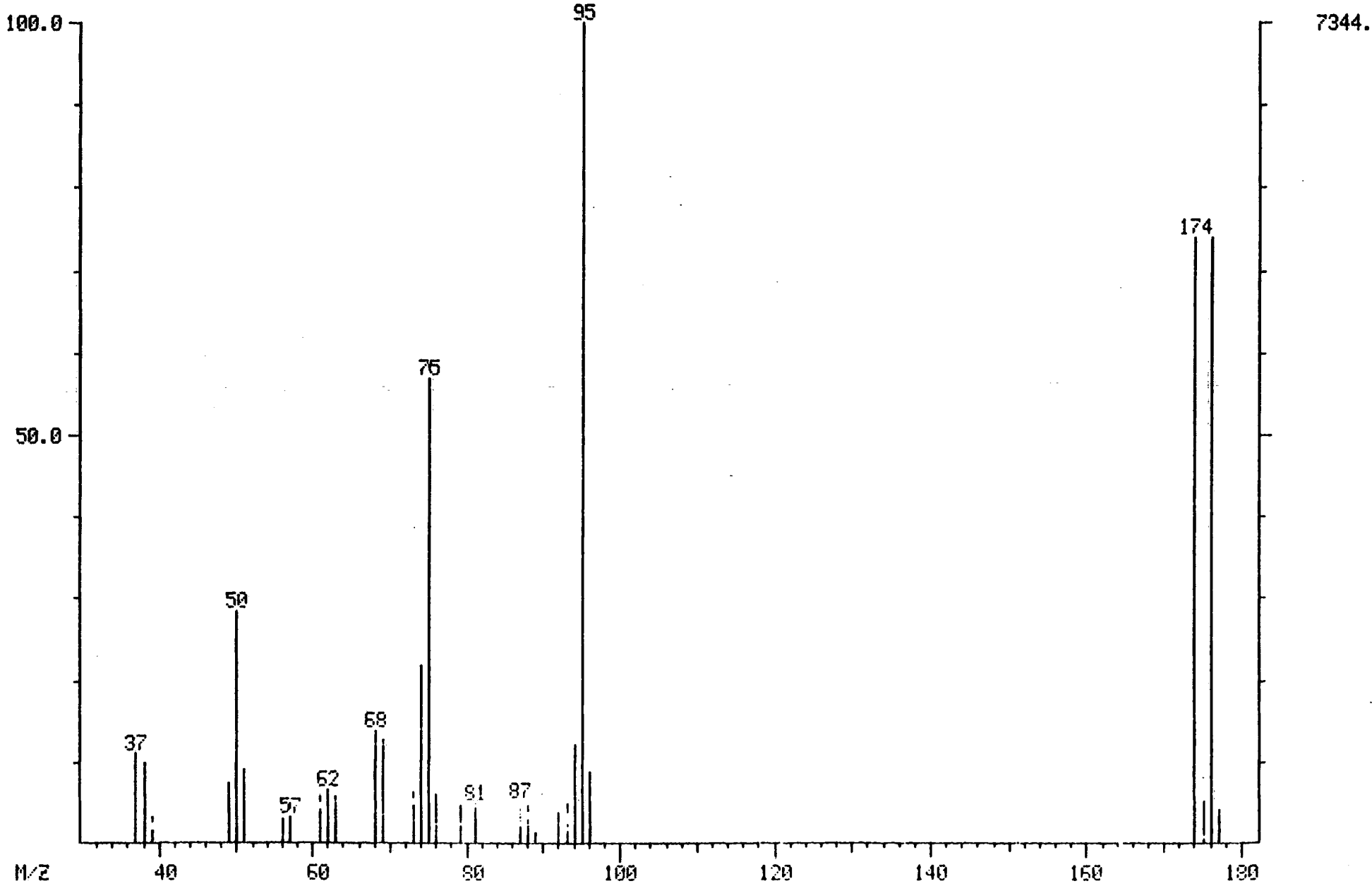
37 0.00 0.00 0. Minima Min inten: 0.
177 # 0 Maxima

Mass		% RA	% RIC	Inten.
37.00?		11.07	2.15	813.
38.00?		9.83	1.91	722.
39.00?	S	1.67	0.33	123.
49.00?		7.52	1.46	552.
50.00?		28.38	5.52	2084.
51.00?		9.00	1.75	661.
56.00?		2.95	0.57	217.
57.00?	S	3.36	0.65	247.
61.00?	S	4.25	0.83	312.
62.00?		6.69	1.30	491.
63.00?		5.81	1.13	427.
68.00?		13.78	2.68	1012.
69.00		12.61	2.45	926.
73.00	S	4.66	0.91	342.
74.00		21.90	4.26	1608.
75.00	S	56.97	11.08	4184.
76.00		6.20	1.20	455.
79.00		4.74	0.92	348.
81.00		5.04	0.98	370.
87.00		5.15	1.00	378.
88.00	S	2.91	0.57	214.
89.00		1.42	0.28	104.
92.00		3.81	0.74	280.
93.00		4.98	0.97	366.
94.00		12.17	2.37	894.
95.00		100.00	19.45	7344.
96.00		8.92	1.73	655.
174.00		74.07	14.41	5440.
175.00		5.23	1.02	384.
176.00		73.97	14.39	5432.
177.00		4.87	0.95	358.

MASS SPECTRUM
09/26/91 11:33:00 + 7:40
SAMPLE: BFB50NG TUNE CHECK
CONDS.: 1050W, BF, METHOD 1
GC TEMP: 207 DEG. C
#230 TO #231 SUMMED - #49

DATA: W092601 #230
CALI: W092601 #2

BASE M/Z: 95
RIC: 37760.



000023

1A 0000236

VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

VBLK

Lab Name: Roy F. Weston, Inc. Work Order: 3600-04-90-0000

Client: WSI-LE CARPENTER

Matrix: WATER Lab Sample ID: 91LVK168-MB1

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: AK9Q05

Level: (low/med) LOW Date Received: 09/26/91

% Moisture: not dec. _____ Date Analyzed: 09/26/91

Column: (pack/cap) CAP Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	11	
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
110-75-8	2-chloroethylvinylether	10	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
75-69-4	Trichlorofluoromethane	5	U
1330-20-7	Xylene (total)	5	U

1E

0000237

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

VBLK

Lab Name: Roy F. Weston, Inc. Work Order: 3600-04-90-0000

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 91LVK168-MB1

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AK9Q05

Level: (low/med) LOW

Date Received: 09/26/91

% Moisture: not dec. _____

Date Analyzed: 09/26/91

Column: (pack/cap) CAP

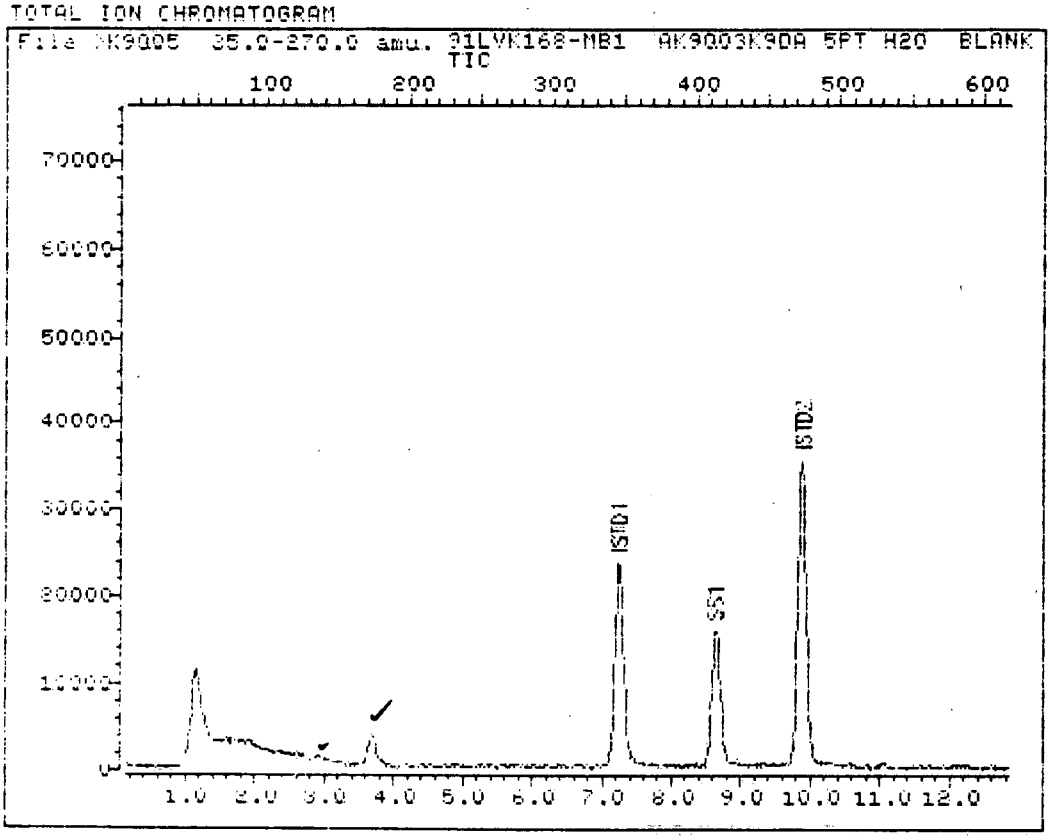
Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

TOTAL ION CHROMATOGRAM



Data File: >K9Q05::D2 Quant Output File: ^K9Q05::QQ
Name: 91LVK168-MB1 AK9Q03
Misc: K9DA 5PT H2O BLANK 5ML #HP-MSD K RSL

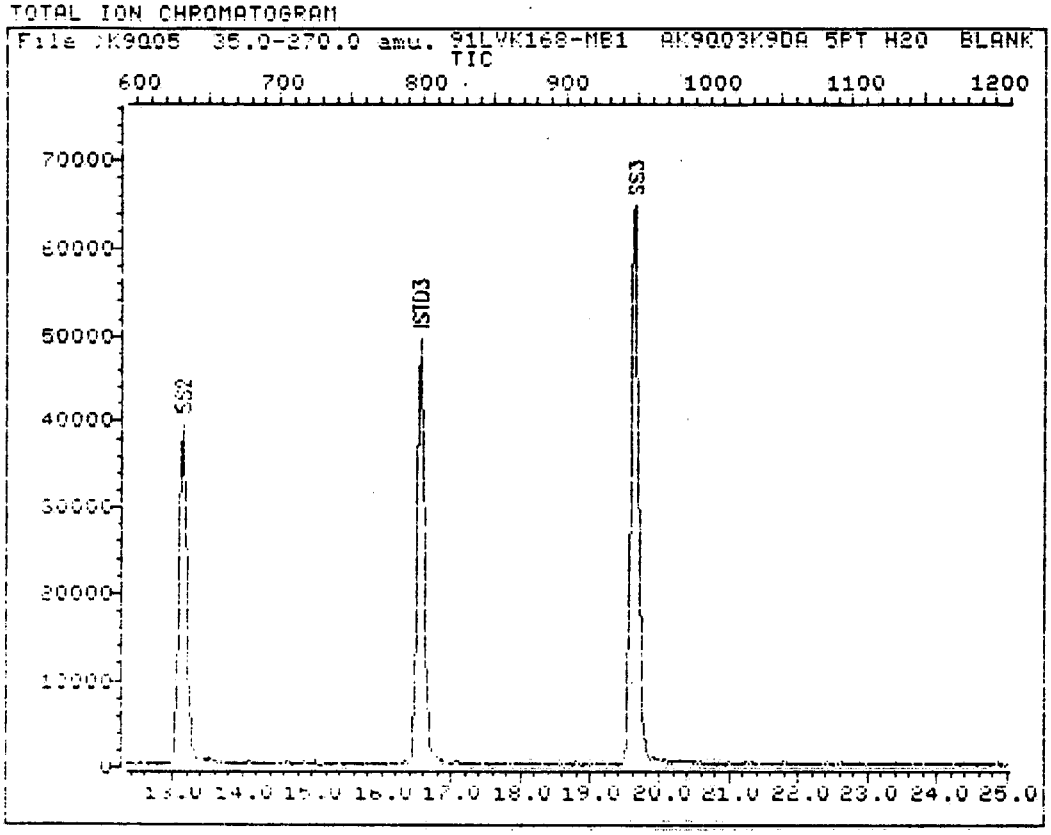
Id File: I_K9QA::QQ
Title: VOLATILES BY CAPILLARY (DB-624)
Last Calibration: 910926 15:03

Operator ID: RSL
Quant Time: 910926 15:32
Injected at: 910926 15:07

TIC page 1 of 2

No Cyclohexane detected
No TICs
RSL
9/26/91

TOTAL ION CHROMATOGRAM



Data File: >K9Q05::D2 Quant Output File: ^K9Q05::QQ
Name: 91LVK168-MB1 AK9Q03
Misc: K9DA 5PT H2O BLANK 5ML #HP-MSD K RSL

Id File: I_K9QA::QQ
Title: VOLATILES BY CAPILLARY (DB-624)
Last Calibration: 910926 15:03

Operator ID: RSL
Quant Time: 910926 15:32
Injected at: 910926 15:07

TIC page 2 of 2

QUANT REPORT

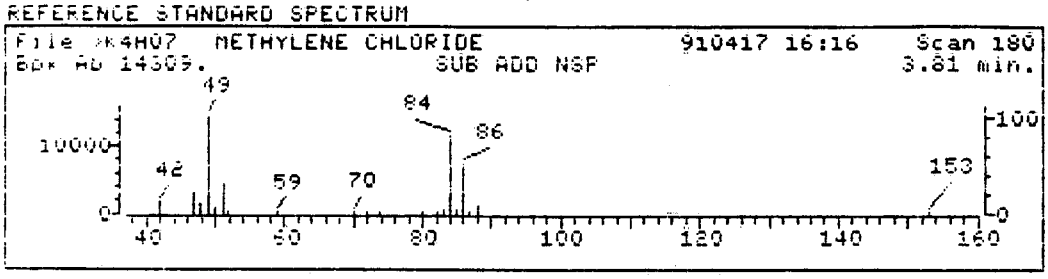
Operator ID: RSL Quant Rev: 6 Quant Time: 910926 15:32
Output File: ^K9Q05::QQ Injected at: 910926 15:07
Data File: >K9Q05::D2 Dilution Factor: 1.00000
Name: 91LVK168-MB1 AK9Q03
Misc: K9DA 5PT H2O BLANK 5ML #HP-MSD K RSL

ID File: I_K9QA::QQ
Title: VOLATILES BY CAPILLARY (DB-624)
Last Calibration: 910926 15:03

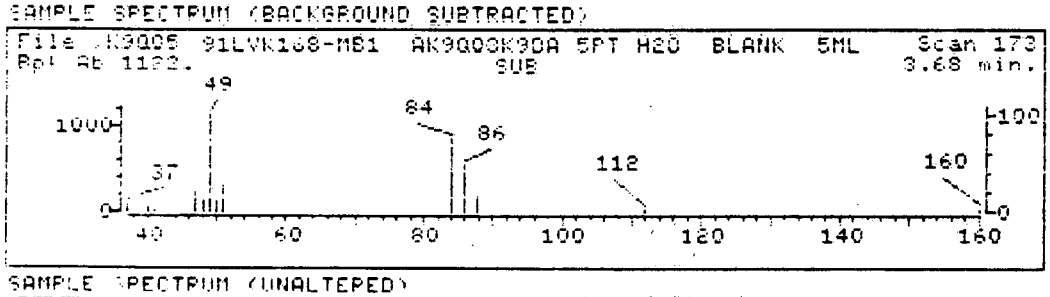
	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE	7.24	128.0	30498 ✓	50.00	ug/L	71
11)	ACETONE	3.02	43.0	799	7.50	ug/L ✓	100
12)	METHYLENE CHLORIDE	3.68	84.0	7082	11.21	ug/L ✓	91
24)	*1,4-DIFLUOROBENZENE	9.88	114.0	115662 ✓	50.00	ug/L	70
26)	1,2-DICHLOROETHANE D4	8.62	65.0	53661	48.90	ug/L ✓	90
32)	*CHLOROBENZENE-D5	16.55	117.0	114111 ✓	50.00	ug/L	89
34)	TOLUENE D8	13.13	98.0	110094	48.13	ug/L ✓	98
48)	4-BROMOFLUOROBENZENE	19.64	95.0	97852	45.73	ug/L ✓	98

* Compound is ISTD

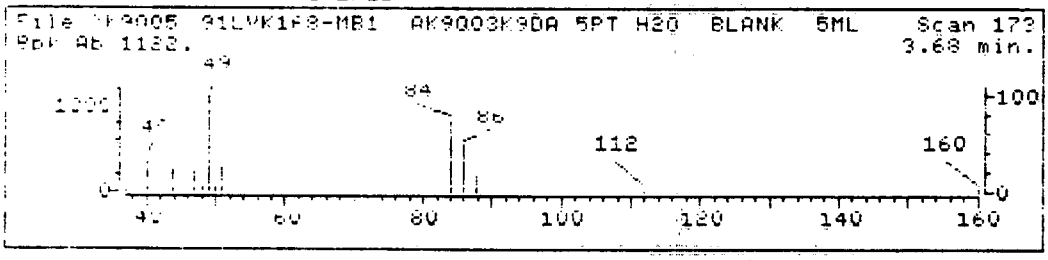
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >K9Q05::D2 Quant Output File: ^K9Q05::QQ
Name: 91LVK168-MB1 AK9Q03
Misc: K9DA 5PT H2O BLANK 5ML #HP-MSD K RSL
Quant Time: 910926 15:32 Quant ID File: I_K9QA::QQ
Injected at: 910926 15:07 Last Calibration: 910926 15:03

Compound No: 12
Compound Name: METHYLENE CHLORIDE
Scan Number: 173
Retention Time: 3.68 min.
Quant Ion: 84.0
Area: 7082
Concentration: 11.21 ug/L
q-value: 91

1A
VOLATILE ORGANICS ANALYSIS SHEET

0000240

CLIENT SAMPLE NO.

VBLK

Lab Name: Roy F. Weston, Inc. Work Order: 3600-04-90-0000

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 91LVK169-MB1

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AK9R05

Level: (low/med) LOW

Date Received: 09/27/91

% Moisture: not dec. _____

Date Analyzed: 09/27/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	13	
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
110-75-8	2-chloroethylvinylether	10	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
75-69-4	Trichlorofluoromethane	5	U
1330-20-7	Xylene (total)	5	U

1E

0000241

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

VBLK

Lab Name: Roy F. Weston, Inc. Work Order: 3600-04-90-0000

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 91LVK169-MB1

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AK9R05

Level: (low/med) LOW

Date Received: 09/27/91

% Moisture: not dec. _____

Date Analyzed: 09/27/91

Column: (pack/cap) CAP

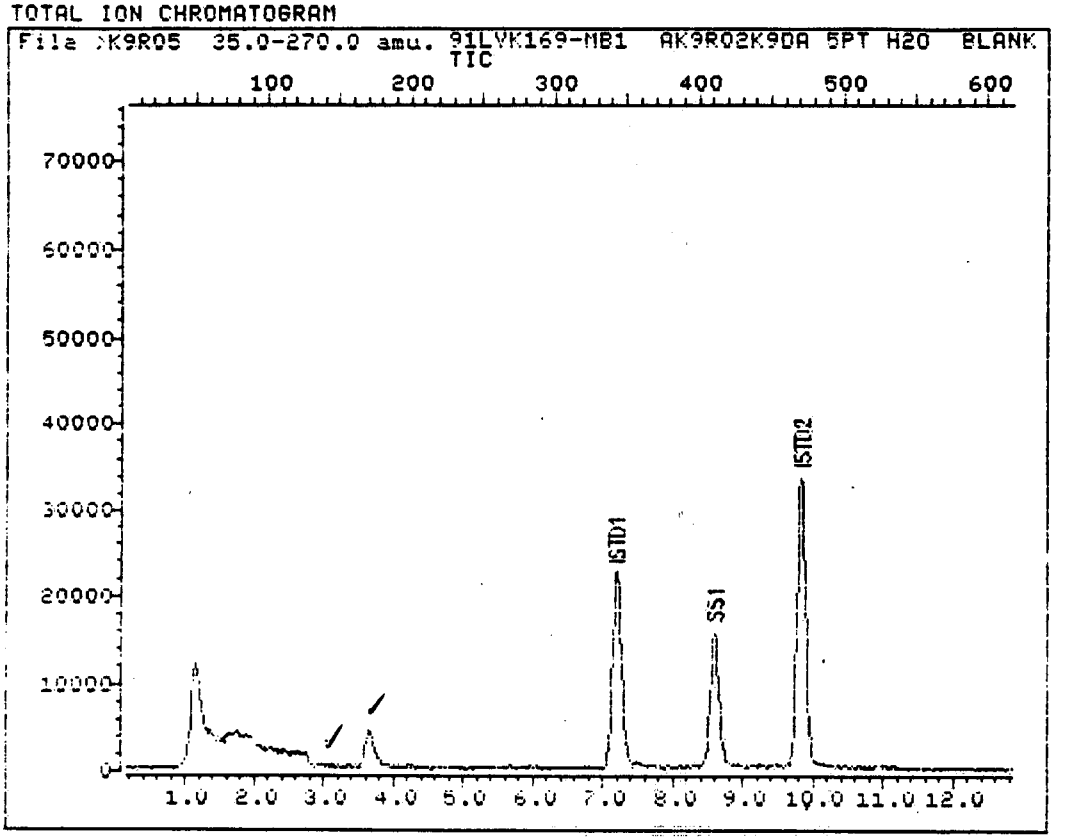
Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

TOTAL ION CHROMATOGRAM



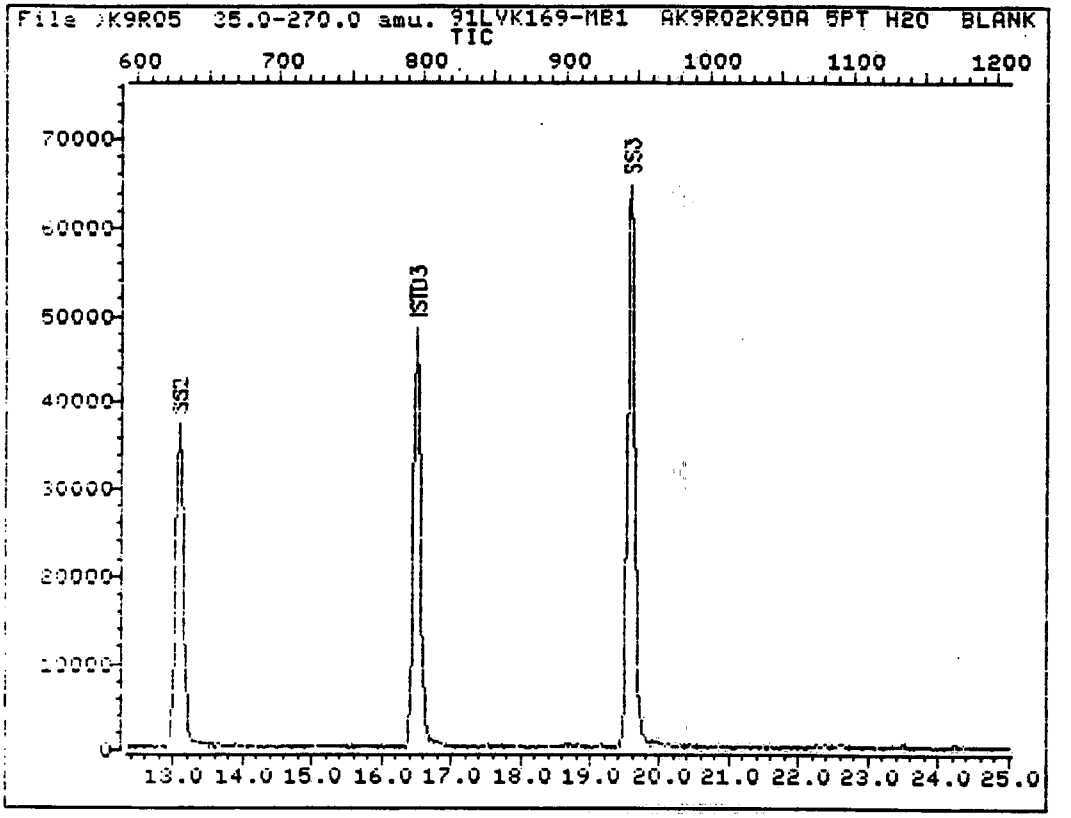
Data File: >K9R05::D2 Quant Output File: ^K9R05::QQ
Name: 91LVK169-MB1 AK9R02
Misc: K9DA 5PT H2O BLANK 5ML #HP-MSD K RSL

Id File: I_K9RA::QQ
Title: VOLATILES BY CAPILLARY (DB-624)
Last Calibration: 910927 13:03

Operator ID: RSL
Quant Time: 910927 13:35
Injected at: 910927 13:10

TIC page 1 of 2

TOTAL ION CHROMATOGRAM



Data File: >K9R05::D2 Quant Output File: ^K9R05::QQ
Name: 91LVK169-MB1 AK9R02
Misc: K9DA 5PT H2O BLANK 5ML #HP-MSD K RSL

Id File: I_K9RA::QQ
Title: VOLATILES BY CAPILLARY (DB-624)
Last Calibration: 910927 13:03

Operator ID: RSL
Quant Time: 910927 13:35
Injected at: 910927 13:10

TIC page 2 of 2

QUANT REPORT

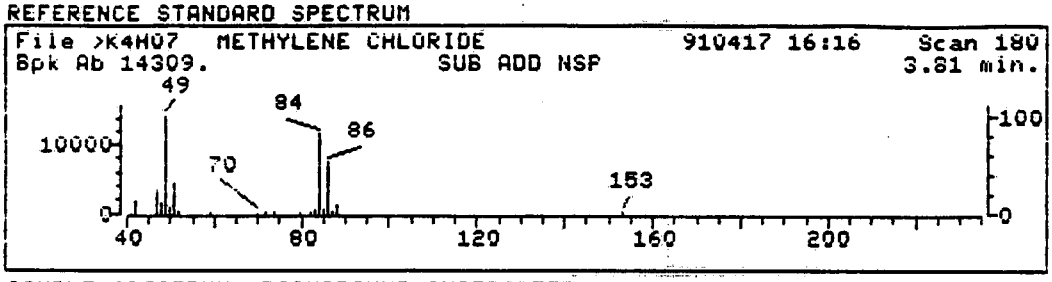
Operator ID: RSL Quant Rev: 6 Quant Time: 910927 13:35
Output File: ^K9R05::QQ Injected at: 910927 13:10
Data File: >K9R05::D2 Dilution Factor: 1.00000
Name: 91LVK169-MB1 AK9R02
Misc: K9DA 5PT H2O BLANK 5ML #HP-MSD K RSL

ID File: I_K9RA::QQ
Title: VOLATILES BY CAPILLARY (DB-624)
Last Calibration: 910927 13:03

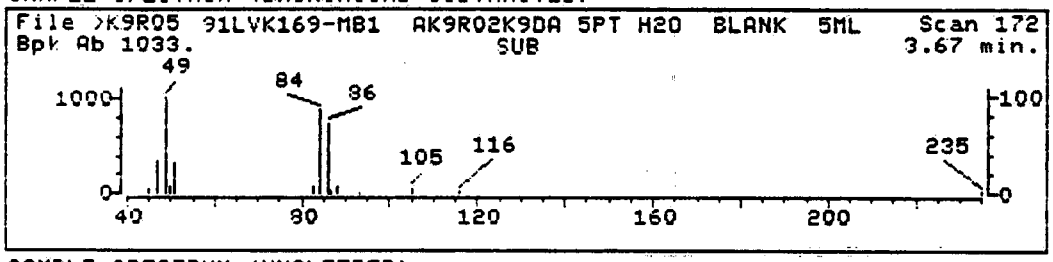
	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE	7.19	128.0	30199 ✓	50.00	ug/L	77
11)	ACETONE	2.97	43.0	854	9.20	ug/L ✓	100
12)	METHYLENE CHLORIDE	3.67	84.0	8575	12.81	ug/L ✓	69
24)	*1,4-DIFLUOROBENZENE	9.82	114.0	111953 ✓	50.00	ug/L	70
26)	1,2-DICHLOROETHANE D4	8.59	65.0	51711	50.37	ug/L ✓	89
32)	*CHLOROBENZENE-D5	16.52	117.0	111447 ✓	50.00	ug/L	93
34)	TOLUENE D8	13.08	98.0	108075	49.01	ug/L ✓	99
48)	4-BROMOFLUOROBENZENE	19.58	95.0	96190	47.24	ug/L ✓	90

* Compound is ISTD

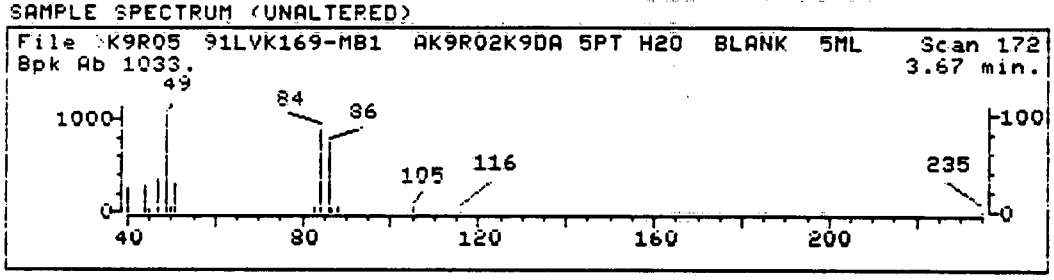
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >K9R05::D2 Quant Output File: ^K9R05::QQ
Name: 91LVK169-MB1 AK9R02
Misc: K9DA 5PT H2O BLANK 5ML #HP-MSD K RSL
Quant Time: 910927 13:35 Quant ID File: I_K9RA::QQ
Injected at: 910927 13:10 Last Calibration: 910927 13:03

Compound No: 12
Compound Name: METHYLENE CHLORIDE
Scan Number: 172
Retention Time: 3.67 min.
Quant Ion: 84.0
Area: 8575
Concentration: 12.81 ug/L
q-value: 69

1A
VOLATILE ORGANICS ANALYSIS SHEET

000024C

CLIENT SAMPLE NO.

VBLK

Lab Name: Roy F. Weston, Inc. Work Order: 3600-04-90-0000

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 91LVK170-MB1

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AK9S03

Level: (low/med) LOW

Date Received: 09/28/91

% Moisture: not dec. _____

Date Analyzed: 09/28/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	7	
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
110-75-8	2-chloroethylvinylether	10	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
75-69-4	Trichlorofluoromethane	5	U
1330-20-7	Xylene (total)	5	U

1E 0000247

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

VBLK

Lab Name: Roy F. Weston, Inc. Work Order: 3600-04-90-0000

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 91LVK170-MB1

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AK9S03

Level: (low/med) LOW

Date Received: 09/28/91

% Moisture: not dec. _____

Date Analyzed: 09/28/91

Column: (pack/cap) CAP

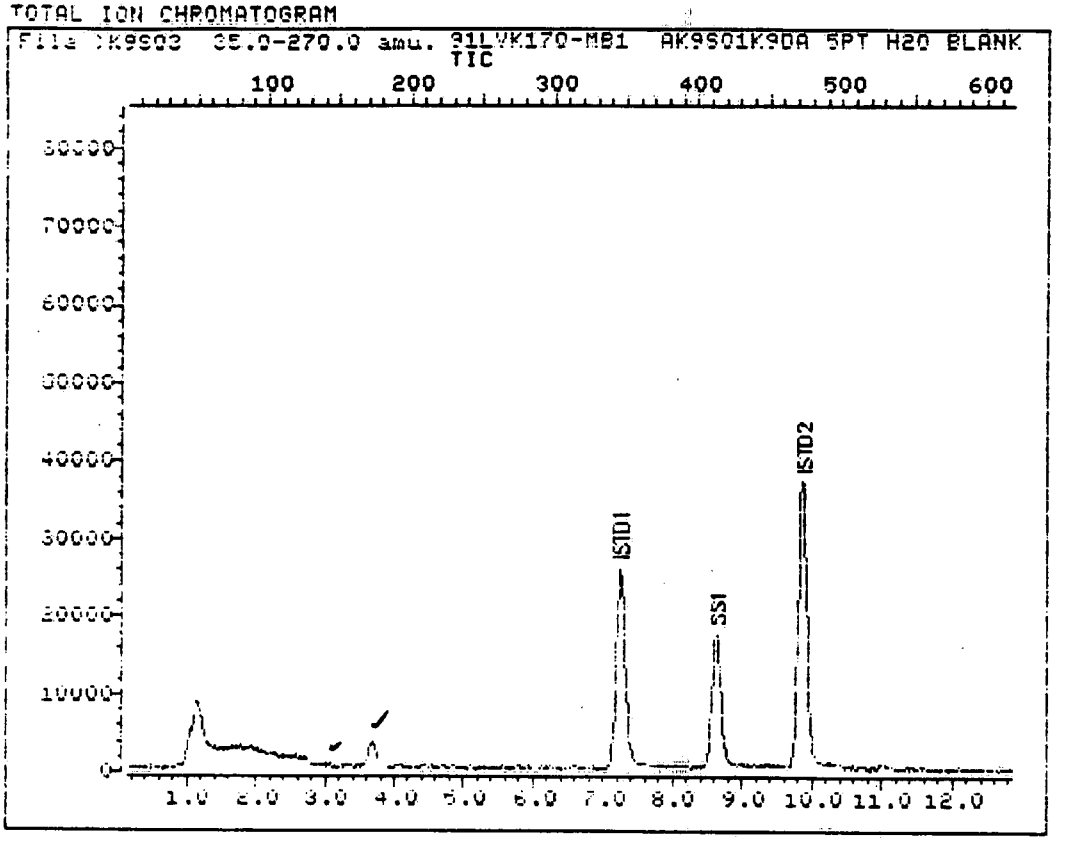
Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

TOTAL ION CHROMATOGRAM



Data File: >K9S03::D2 Quant Output File: ^K9S03::QQ
Name: 91LVK170-MB1 AK9S01
Misc: K9DA 5PT H2O BLANK #HP-MSD K BB

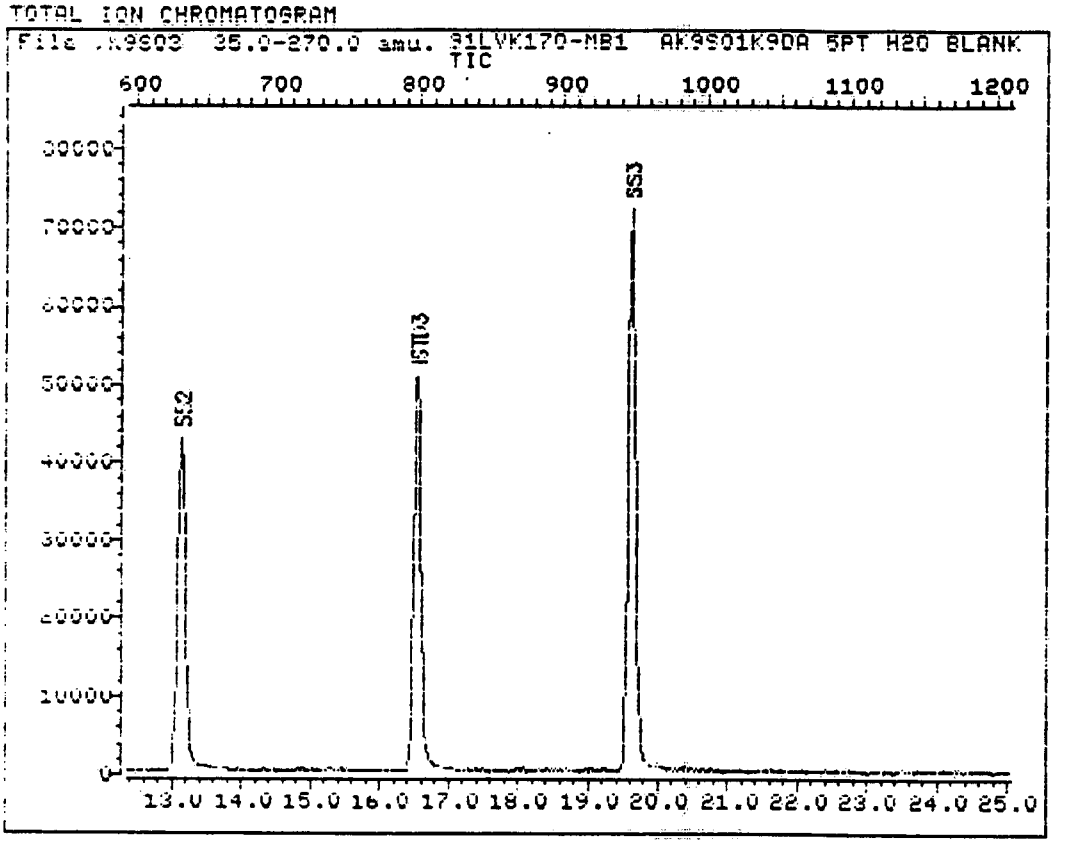
Id File: I_K9SA::QQ
Title: VOLATILES BY CAPILLARY (DB-624)
Last Calibration: 910928 13:14

Operator ID: BB
Quant Time: 910928 13:53
Injected at: 910928 13:27

TIC page 1 of 2

NO TICS
RSL
9/28/91

TOTAL ION CHROMATOGRAM



Data File: >K9S03::D2 Quant Output File: ^K9S03::QQ
Name: 91LVK170-MB1 AK9S01
Misc: K9DA 5PT H2O BLANK #HP-MSD K BB

Id File: I_K9SA::QQ
Title: VOLATILES BY CAPILLARY (DB-624)
Last Calibration: 910928 13:14

Operator ID: BB
Quant Time: 910928 13:53
Injected at: 910928 13:27

TIC page 2 of 2

QUANT REPORT

Operator ID: BB
Output File: ^K9S03::QQ
Data File: >K9S03::D2
Name: 91LVK170-MB1 AK9S01
Misc: K9DA 5PT H2O BLANK

Quant Rev: 6
Quant Time: 910928 13:53
Injected at: 910928 13:27
Dilution Factor: 1.00000

#HP-MSD K BB

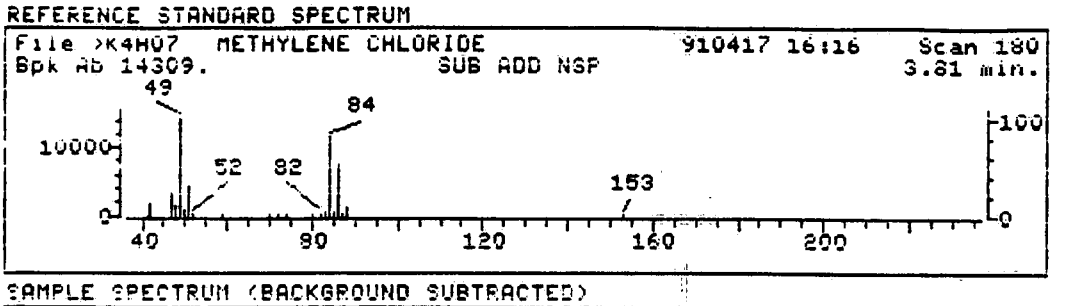
ID File: I_K9SA::QQ
Title: VOLATILES BY CAPILLARY (DB-624)
Last Calibration: 910928 13:14

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE	7.24	128.0	33264	50.00	ug/L	79
11)	ACETONE	3.00	43.0	410	3.28	ug/L	100
12)	METHYLENE CHLORIDE	3.70	84.0	5912	6.90	ug/L	89
24)	*1,4-DIFLUOROBENZENE	9.88	114.0	124634	50.00	ug/L	65
26)	1,2-DICHLOROETHANE D4	8.64	65.0	60136	48.37	ug/L	90
32)	*CHLOROBENZENE-D5	16.55	117.0	117442	50.00	ug/L	97
34)	TOLUENE D8	13.13	98.0	123909	50.39	ug/L	96
47)	BROMOFORM	18.74	173.0	423	.23	ug/L	50
48)	4-BROMOFLUOROBENZENE	19.62	95.0	106383	48.60	ug/L	94

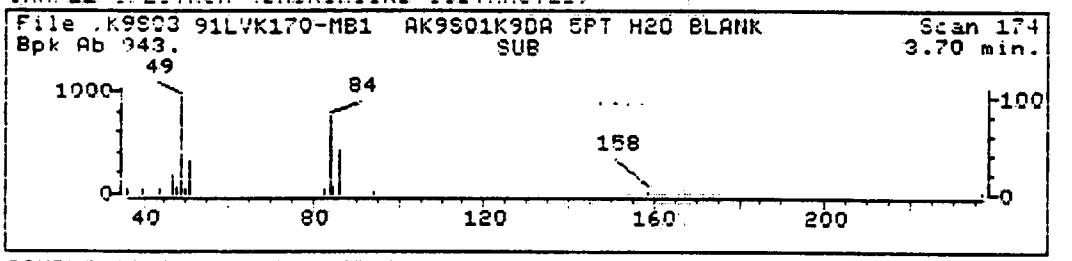
* Compound is ISTD

JB
9-28-91

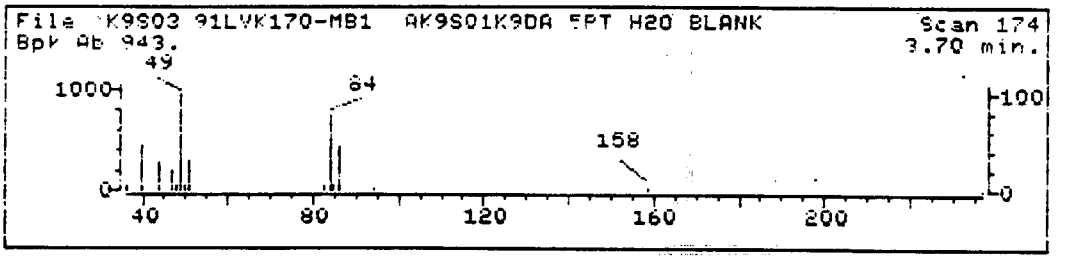
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >K9S03::D2
Name: 91LVK170-MB1 AK9S01
Misc: K9DA 5PT H2O BLANK
Quant Time: 910928 13:53
Injected at: 910928 13:27

Quant Output File: ^K9S03::QQ
#HP-MSD K BB
Quant ID File: I_K9SA::QQ
Last Calibration: 910928 13:14

Compound No: 12
Compound Name: METHYLENE CHLORIDE
Scan Number: 174
Retention Time: 3.70 min.
Quant Ion: 84.0
Area: 5912
Concentration: 6.90 ug/L
q-value: 89

1A
VOLATILE ORGANICS ANALYSIS SHEET 0000252

CLIENT SAMPLE NO.

VBLK

Lab Name: Roy F. Weston, Inc. Work Order: 3600-04-90-0000

Client: WSI-LE CARPENTER

Matrix: WATER Lab Sample ID: 91LVW155-MB1

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: W092403

Level: (low/med) LOW Date Received: 09/24/91

% Moisture: not dec. _____ Date Analyzed: 09/24/91

Column: (pack/cap) PACK Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	12	
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
110-75-8	2-chloroethylvinylether	10	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
75-69-4	Trichlorofluoromethane	5	U
1330-20-7	Xylene (total)	5	U

1E 0000253 CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

VBLK

Lab Name: Roy F. Weston, Inc. Work Order: 3600-04-90-0000

Client: WSI-LE CARPENTER

Matrix: WATER Lab Sample ID: 91LVW155-MB1

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: W092403

Level: (low/med) LOW Date Received: 09/24/91

% Moisture: not dec. _____ Date Analyzed: 09/24/91

Column: (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 0

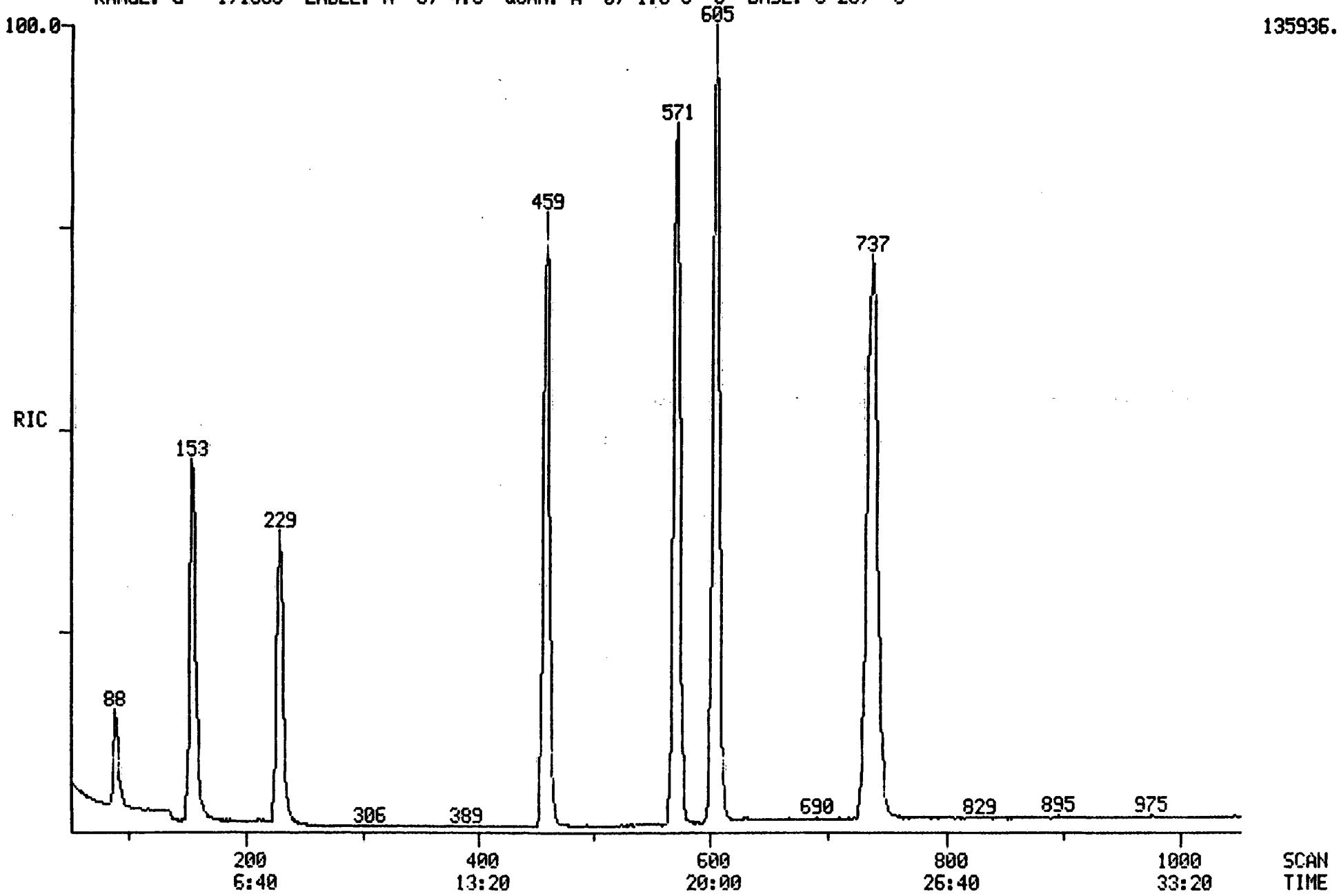
CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

RIC
09/24/91 11:25:00
SAMPLE: 91LVW155-MB1 VOA BLK
CONDS.: 1050W, VO, METHOD 2
RANGE: G 1,1050 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: W092403 #1
CALI: W092403 #2

SCANS 50 TO 1050



000025

Quantitation Report File: W092403

Data: W092403.TI
09/24/91 11:25:00
Sample: 91LVW155-MB1 VOA BLK
Conds.: 1050W, VO, METHOD 2
Formula: W092401 Instrument: 1050W Weight: 0.039
Submitted by: Analyst: PSS Acct. No.: 082291

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	IS1	BROMOCHLOROMETHANE	INTERNAL STANDARD #1
2	SS1	1,2-DICHLOROETHANE D4	SURROGATE STANDARD#1
3	45V	CHLOROMETHANE	
4	46V	BROMOMETHANE	
5	88V	VINYL CHLORIDE	
6	16V	CHLOROETHANE	
7	44V	METHYLENE CHLORIDE	
8	13H	ACETONE	
9	21H	ACROLEIN	
10	15H	CARBON DISULFIDE	
11	24H	TRICHLOROFLUOROMETHANE	
12	22H	ACRYLONITRILE	
13	29V	1,1-DICHLOROETHYLENE	
14	13V	1,1-DICHLOROETHANE	
15		1,2-DICHLOROETHENE (TOTAL)	
16	23V	CHLOROFORM	
17	10V	1,2-DICHLOROETHANE	
18	14H	2-BUTANONE	
19	IS2	1,4-DIFLUOROBENZENE	INTERNAL STANDARD #2
20	11V	1,1,1-TRICHLOROETHANE	
21	6V	CARBON TETRACHLORIDE	
22	19H	VINYL ACETATE	
23	48V	BROMODICHLOROMETHANE	
24	32V	1,2-DICHLOROPROPANE	
25	33VC	CIS-1,3-DICHLOROPROPENE	
26		TRICHLOROETHYLENE	
27	51V	DIBROMOCHLOROMETHANE	
28	14V	1,1,2-TRICHLOROETHANE	
29	4V	BENZENE	
30	33VT	TRANS-1,3-DICHLOROPROPENE	
31		2-CHLOROETHYLVINYLETHER	
32	47V	BROMOFORM	
33	IS3	CHLOROBENZENE D5	INTERNAL STANDARD #3
34	SS2	TOLUENE D8	SURROGATE STANDARD #2
35	SS3	4-BROMOFLUOROBENZENE	SURROGATE STANDARD #3
36	17H	4-METHYL-2-PENTANONE	
37	16H	2-HEXANONE	
38	85V	TETRACHLOROETHYLENE	
39	15V	1,1,2,2-TETRACHLOROETHANE	
40	86V	TOLUENE	
41	7V	CHLOROBENZENE	
42	38V	ETHYLBENZENE	
43	18H	STYRENE	
44		XYLENES (TOTAL)	
45	26B	1,3-DICHLOROBENZENE	
46	25B	1,2-DICHLOROBENZENE	
47	27B	1,4-DICHLOROBENZENE	

No	Name
48	XYLENES
49	METHYL-T-BUTYLETHER
50	DIETHYLETHER

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	153	5:06	1	1.000	A BB	44596.	50.000 UG/L	15.93
2	65	229	7:38	1	1.497	A BB	110464.	47.887 UG/L	15.25
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	84	88	2:56	1	0.575	A BB	14043.	11.700 UG/L	3.73
8	43	101	3:22	1	0.660	A VB	1556.	4.945 UG/L	1.58
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
17	NOT FOUND								
18	NOT FOUND								
19	114	458	15:16	19	1.000	A BB	231372.	50.000 UG/L	15.93
20	NOT FOUND								
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	NOT FOUND								
26	NOT FOUND								
27	NOT FOUND								
28	NOT FOUND								
29	NOT FOUND								
30	NOT FOUND								
31	NOT FOUND								
32	NOT FOUND								
33	117	604	20:08	33	1.000	A BB	224339.	50.000 UG/L	15.93
34	98	571	19:02	33	0.945	A BB	241678.	49.371 UG/L	15.73
35	95	737	24:34	33	1.220	A BB	181215.	49.743 UG/L	15.85
36	NOT FOUND								
37	NOT FOUND								
38	NOT FOUND								
39	NOT FOUND								
40	NOT FOUND								
41	NOT FOUND								
42	NOT FOUND								
43	NOT FOUND								
44	NOT FOUND								
45	NOT FOUND								
46	NOT FOUND								
47	NOT FOUND								
48	NOT FOUND								
49	NOT FOUND								
50	59	210	7:00	1	1.373	A BB	241.	0.347 UG/L	0.11

Quantitation Report File: W092403

Data: W092403.TI
09/24/91 11:25:00
Sample: 91LVW155-MB1 VOA BLK
Conds.: 1050W, VO, METHOD 2
Formula: W092401 Instrument: 1050W Weight: 0.039
Submitted by: Analyst: PSS Acct. No.: 082291

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

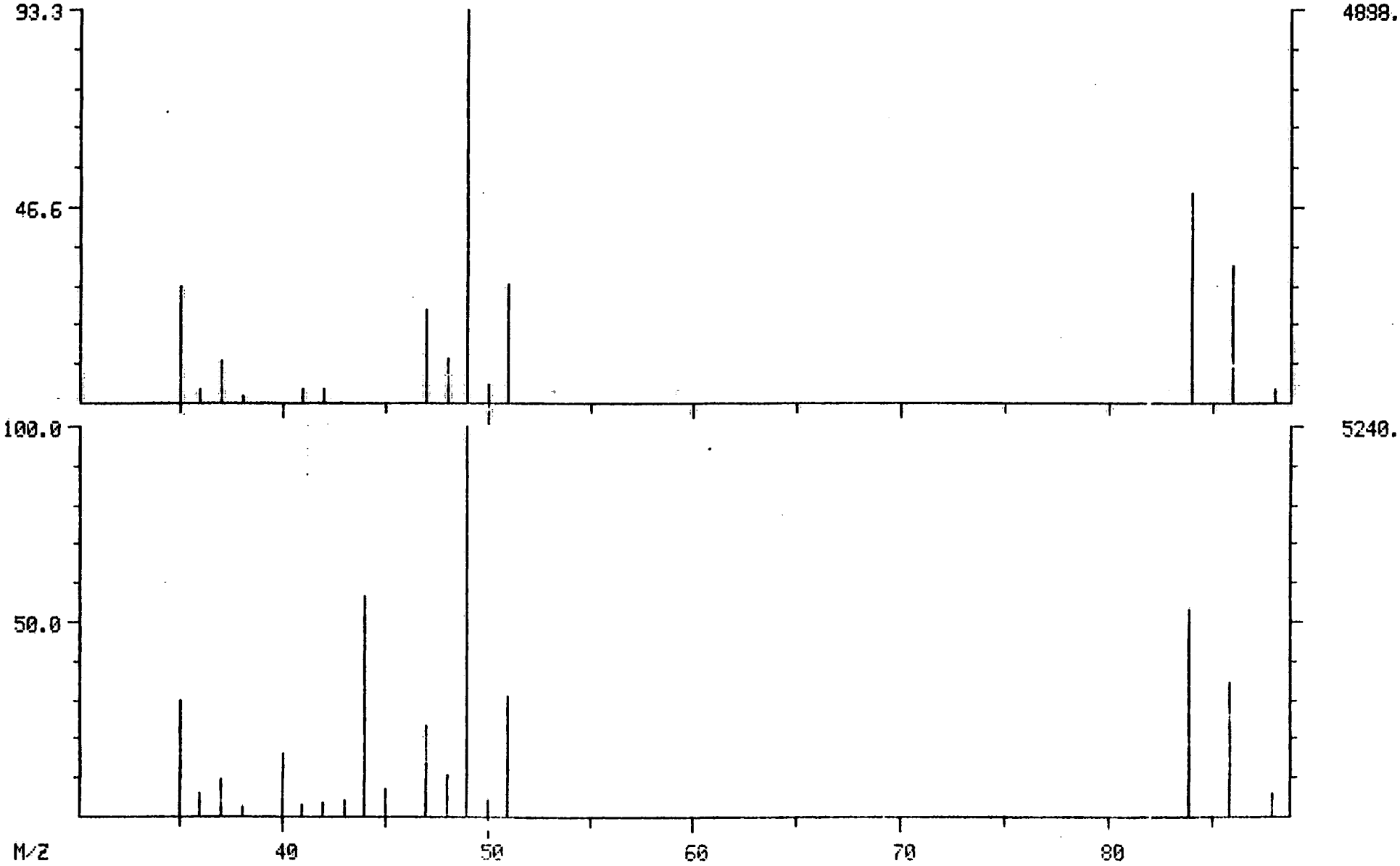
No	Name
51	T-BUTYL ALCOHOL

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	NOT FOUND								

DUAL MASS SPECTRUM
09/24/91 11:25:00 + 2:56
SAMPLE: 91LVW155-MB1 VOA BLK
CONDS.: 1050W, VO, METHOD 2
GC TEMP: 76 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: W092403 #88
CALI: W092403 #2

BASE M/Z: 49/ 49
RIC: 15551./ 21023.

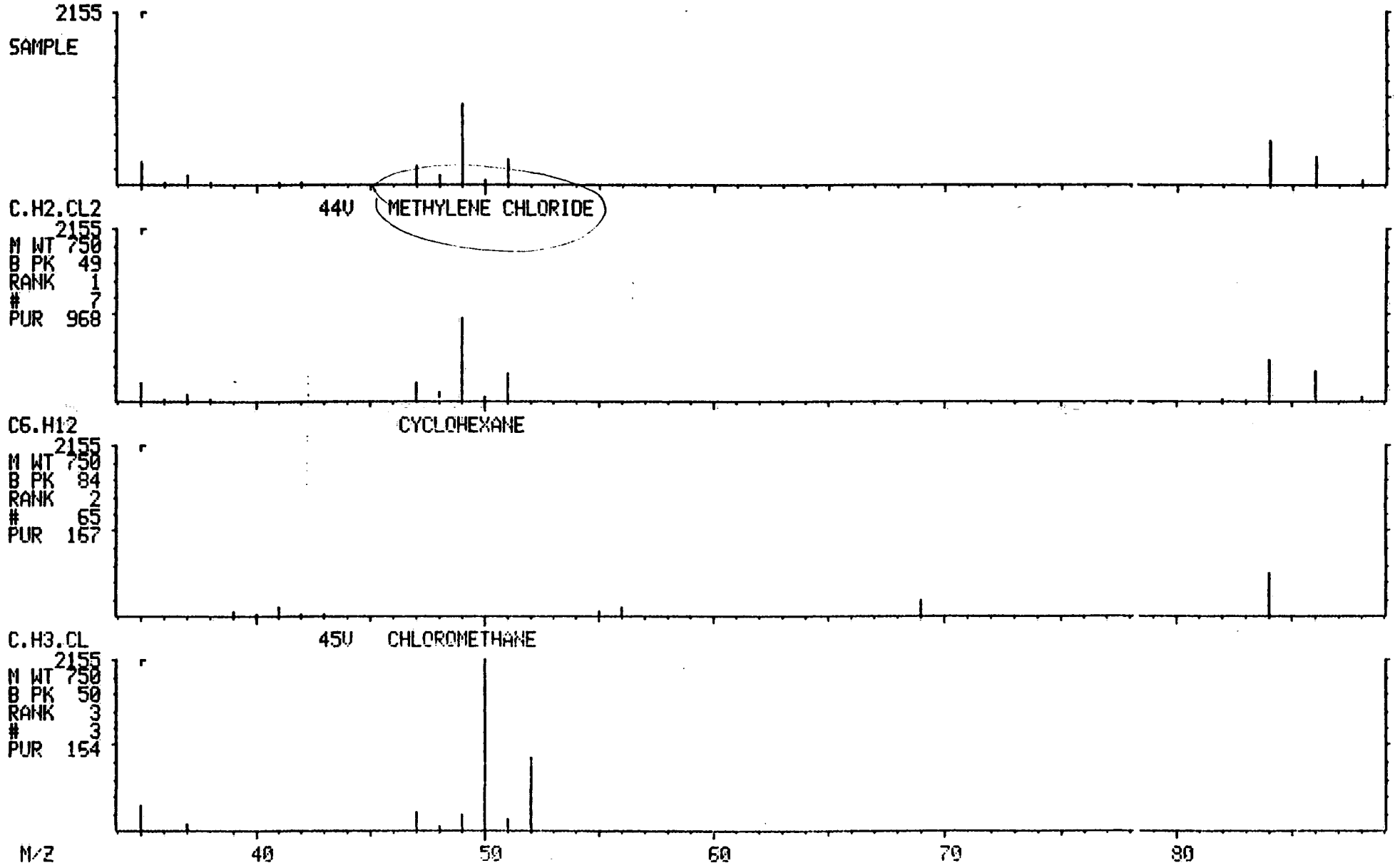


000025

LIBRARY SEARCH
09/24/91 11:25:00 + 2:55
SAMPLE: 91LVW155-MB1 VOA BLK
CONDS.: 1050W, VO, METHOD 2
ENHANCED (S 15B 2N 0T)

DATA: W092403 # 88
CALI: W092403 # 2

BASE M/Z: 49
RIC: 15551.



000259

1A
VOLATILE ORGANICS ANALYSIS SHEET 0000260

CLIENT SAMPLE NO.

VBLK

Lab Name: Roy F. Weston, Inc. Work Order: 3600-04-90-0000

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 91LVW156-MB1

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W092506

Level: (low/med) LOW

Date Received: 09/25/91

% Moisture: not dec. _____

Date Analyzed: 09/25/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
110-75-8	2-chloroethylvinylether	10	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
75-69-4	Trichlorofluoromethane	5	U
1330-20-7	Xylene (total)	5	U

1E

0000261

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

VBLK

Lab Name: Roy F. Weston, Inc. Work Order: 3600-04-90-0000

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 91LVW156-MB1

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W092506

Level: (low/med) LOW

Date Received: 09/25/91

% Moisture: not dec. _____

Date Analyzed: 09/25/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

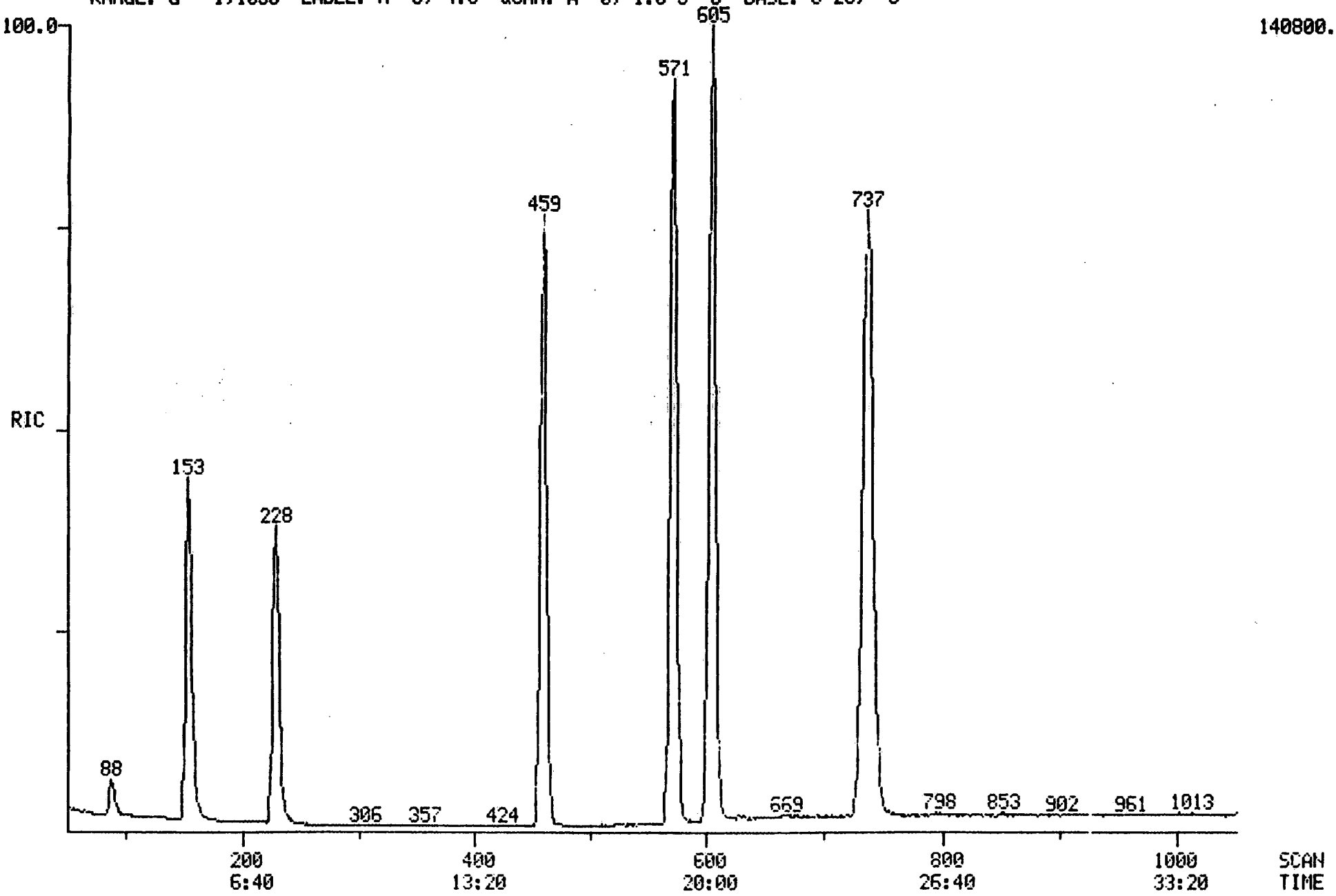
CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

RIC
09/25/91 13:31:00
SAMPLE: 91LVW156-MB1 VOA BLK
CONDS.: 1050W, VO, METHOD 2
RANGE: G 1,1050 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: W092505 #1
CALI: W092506 #2

SCANS 50 TO 1050



000062

Quantitation Report File: W092506

Data: W092506.TI
09/25/91 13:31:00
Sample: 91LVW156-MB1 VOA BLK
Conds.: 1050W, VO, METHOD 2
Formula: W092504 Instrument: 1050W Weight: 0.041
Submitted by: Analyst: PSS Acct. No.: 082291

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	IS1	BROMOCHLOROMETHANE	INTERNAL STANDARD #1
2	SS1	1,2-DICHLOROETHANE D4	SURROGATE STANDARD#1
3	45V	CHLOROMETHANE	
4	46V	BROMOMETHANE	
5	88V	VINYL CHLORIDE	
6	16V	CHLOROETHANE	
7	44V	METHYLENE CHLORIDE	
8	13H	ACETONE	
9	21H	ACROLEIN	
10	15H	CARBON DISULFIDE	
11	24H	TRICHLOROFLUOROMETHANE	
12	22H	ACRYLONITRILE	
13	29V	1,1-DICHLOROETHYLENE	
14	13V	1,1-DICHLOROETHANE	
15		1,2-DICHLOROETHENE (TOTAL)	
16	23V	CHLOROFORM	
17	10V	1,2-DICHLOROETHANE	
18	14H	2-BUTANONE	
19		CYCLOHEXANE	
20	IS2	1,4-DIFLUOROBENZENE	INTERNAL STANDARD #2
21	11V	1,1,1-TRICHLOROETHANE	
22	6V	CARBON TETRACHLORIDE	
23	19H	VINYL ACETATE	
24	48V	BROMODICHLOROMETHANE	
25	32V	1,2-DICHLOROPROPANE	
26	33VC	CIS-1,3-DICHLOROPROPENE	
27		TRICHLOROETHYLENE	
28	51V	DIBROMOCHLOROMETHANE	
29	14V	1,1,2-TRICHLOROETHANE	
30	4V	BENZENE	
31	33VT	TRANS-1,3-DICHLOROPROPENE	
32		2-CHLOROETHYLVINYLETHER	
33	47V	BROMOFORM	
34	IS3	CHLOROBENZENE D5	INTERNAL STANDARD #3
35	SS2	TOLUENE D8	SURROGATE STANDARD #2
36	SS3	4-BROMOFLUOROBENZENE	SURROGATE STANDARD #3
37	17H	4-METHYL-2-PENTANONE	
38	16H	2-HEXANONE	
39	85V	TETRACHLOROETHYLENE	
40	15V	1,1,2,2-TETRACHLOROETHANE	
41	86V	TOLUENE	
42	7V	CHLOROBENZENE	
43	38V	ETHYLBENZENE	
44	18H	STYRENE	
45		XYLENES (TOTAL)	
46	26B	1,3-DICHLOROBENZENE	
47	25B	1,2-DICHLOROBENZENE	

No	Name	
48	27B	1,4-DICHLOROBENZENE
49		XYLENES
50		METHYL-T-BUTYLETHER

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	153	5:06	1	1.000	A BB	44337.	50.000 UG/L	15.84
2	65	228	7:36	1	1.490	A BB	118067.	49.838 UG/L	15.79
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	84	88	2:56	1	0.575	A BB	5996.	5.181 UG/L	1.64
8	43	100	3:20	1	0.654	A BB	1144.	4.126 UG/L	1.31
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
17	NOT FOUND								
18	NOT FOUND								
19	NOT FOUND								
20	114	459	15:18	20	1.000	A BB	236735.	50.000 UG/L	15.84
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	NOT FOUND								
26	NOT FOUND								
27	NOT FOUND								
28	NOT FOUND								
29	NOT FOUND								
30	NOT FOUND								
31	NOT FOUND								
32	NOT FOUND								
33	NOT FOUND								
34	117	604	20:08	34	1.000	A BB	231999.	50.000 UG/L	15.84
35	98	571	19:02	34	0.945	A BB	263635.	52.247 UG/L	16.55
36	95	737	24:34	34	1.220	A BB	200340.	52.971 UG/L	16.78
37	NOT FOUND								
38	43	523	17:26	34	0.866	A BB	904.	0.978 UG/L	0.31
39	NOT FOUND								
40	NOT FOUND								
41	92	576	19:12	34	0.954	A BB	1023.	0.369 UG/L	0.12
42	NOT FOUND								
43	NOT FOUND								
44	NOT FOUND								
45	NOT FOUND								
46	NOT FOUND								
47	NOT FOUND								
48	NOT FOUND								
49	NOT FOUND								
50	NOT FOUND								

RT

PCG 10/21/

Quantitation Report File: W092506

Data: W092506.TI
09/25/91 13:31:00
Sample: 91LVW156-MB1 VOA BLK
Conds.: 1050W, VO, METHOD 2
Formula: W092504 Instrument: 1050W Weight: 0.041
Submitted by: Analyst: PSS Acct. No.: 082291

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

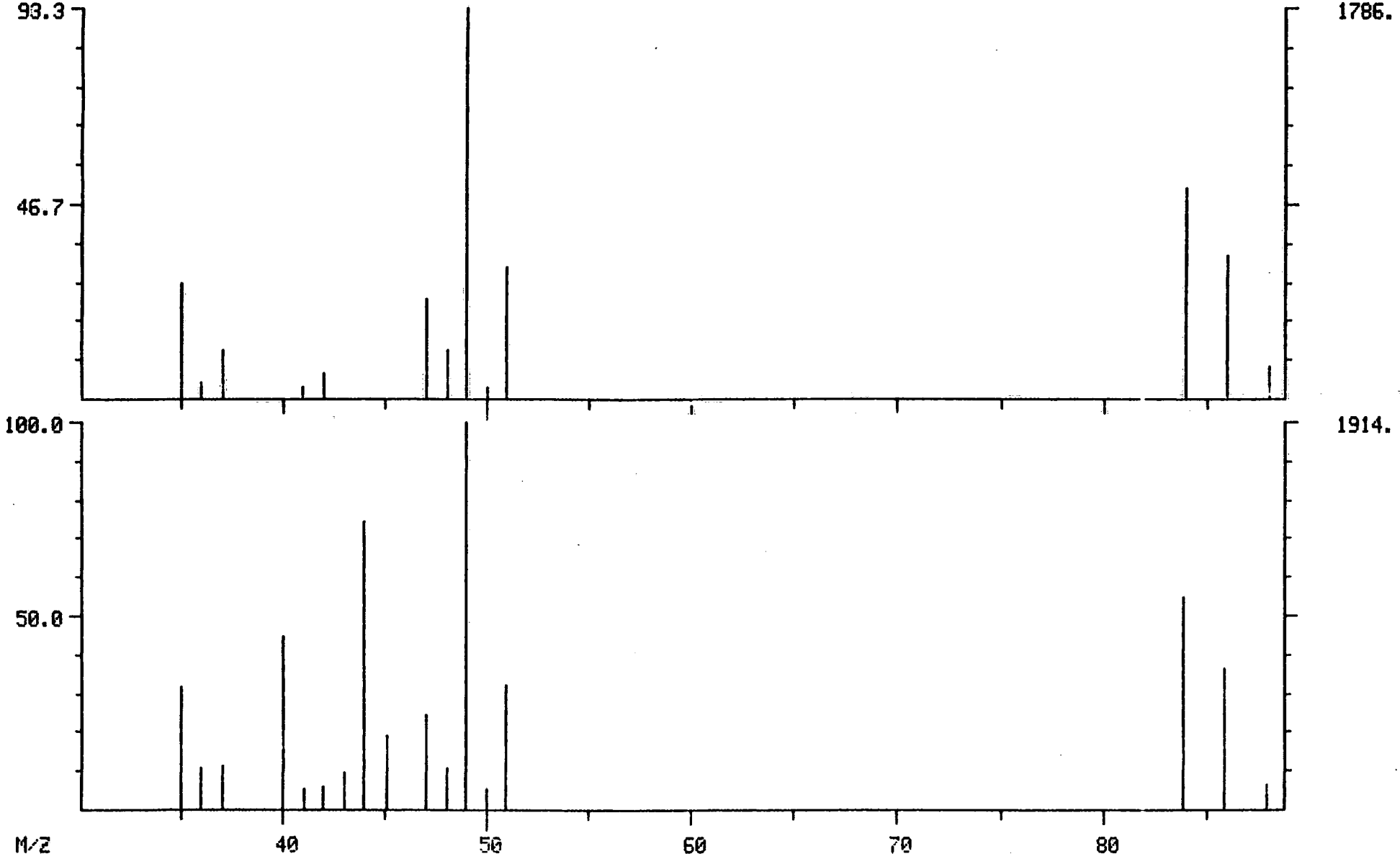
No	Name
51	DIETHYLETHER
52	T-BUTYL ALCOHOL

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	NOT FOUND								
52	NOT FOUND								

DUAL MASS SPECTRUM
09/25/91 13:31:00 + 2:56
SAMPLE: 91LVW156-MB1 VOA BLK
CONDS.: 1050W, VO, METHOD 2
GC TEMP: 75 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: W092506 #88
CALI: W092506 #2

BASE M/Z: 49/ 49
RIC: 5887./ 9231.

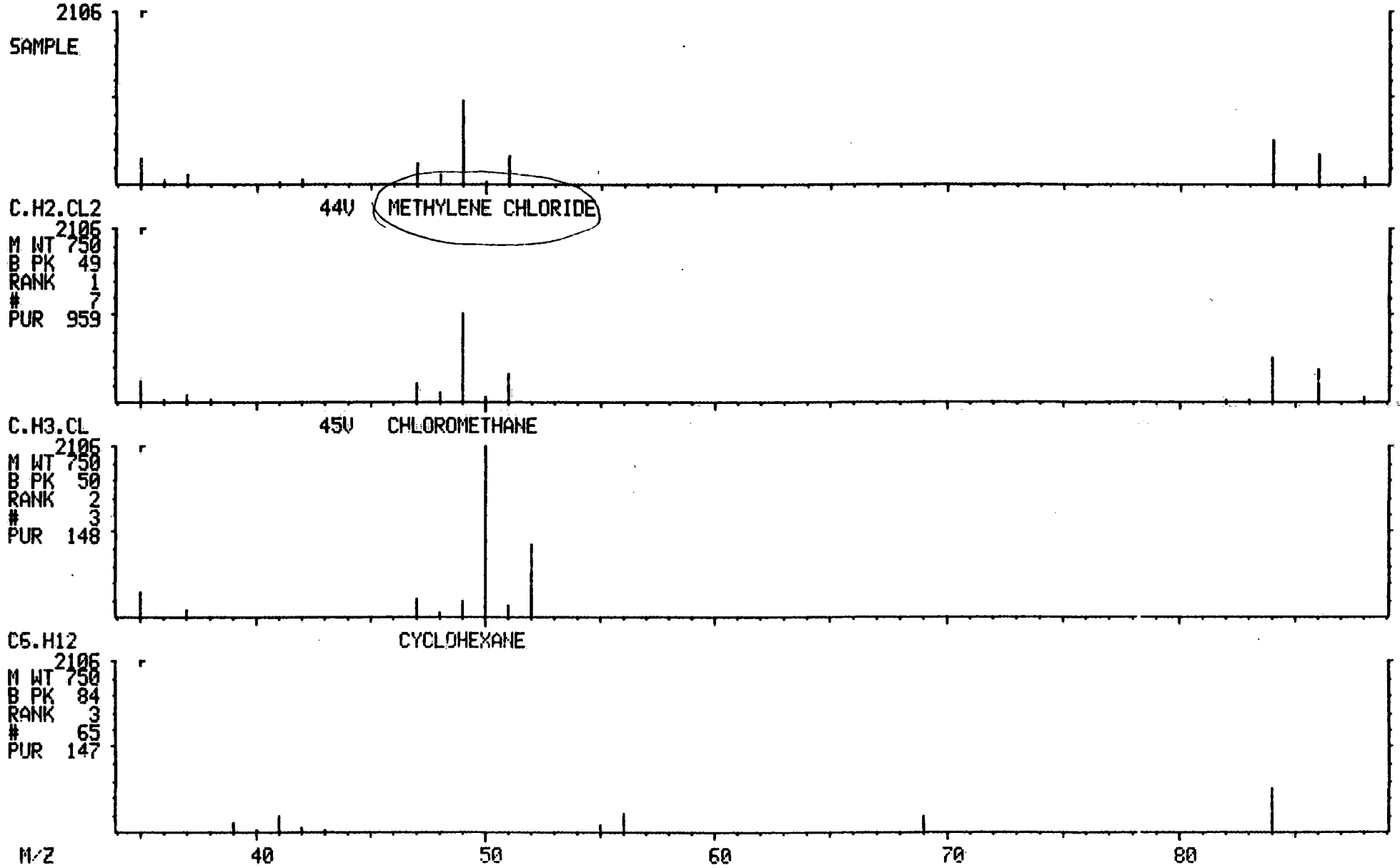


000026

LIBRARY SEARCH
09/25/91 13:31:00 + 2:56
SAMPLE: 91LVW156-MB1 VOA BLK
CONDS.: 1050W, VO, METHOD 2
ENHANCED (S 15B 2N 0T)

DATA: W092506 # 88
CALI: W092506 # 2

BASE M/Z: 49
RIC: 5887.



000267

1A
VOLATILE ORGANICS ANALYSIS SHEET

0000268

CLIENT SAMPLE NO.

VBLK

Lab Name: Roy F. Weston, Inc. Work Order: 3600-04-90-0000

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 91LVW157-MB1

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W092603

Level: (low/med) LOW

Date Received: 09/26/91

% Moisture: not dec. _____

Date Analyzed: 09/26/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	13	
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
110-75-8	2-chloroethylvinylether	10	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
75-69-4	Trichlorofluoromethane	5	U
1330-20-7	Xylene (total)	5	U

1E 0000269

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

VBLK

Lab Name: Roy F. Weston, Inc. Work Order: 3600-04-90-0000

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 91LVW157-MB1

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W092603

Level: (low/med) LOW

Date Received: 09/26/91

% Moisture: not dec. _____

Date Analyzed: 09/26/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

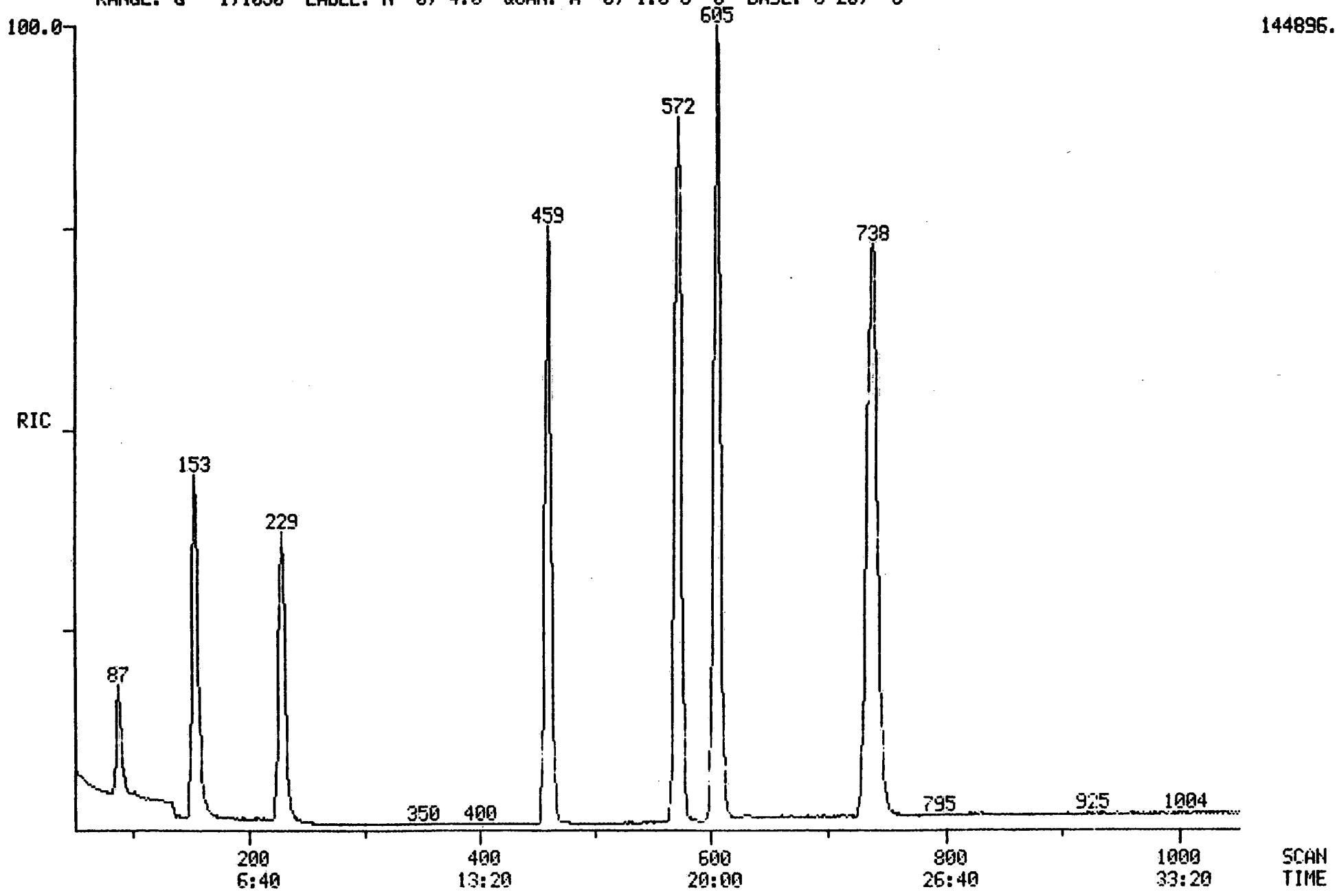
CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

RIC
09/26/91 12:30:00
SAMPLE: 91LVW157-MB1 VOA BLK
CONDS.: 1050W, VO, METHOD 2
RANGE: G 1,1050 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: W092603 #1
CALI: W092603 #2

SCANS 50 TO 1050



000027

Quantitation Report File: W092603

Data: W092603.TI
09/26/91 12:30:00
Sample: 91LVW157-MB1 VOA BLK
Conds.: 1050W, VO, METHOD 2
Formula: W092601 Instrument: 1050W Weight: 0.008
Submitted by: Analyst: PSS Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	IS1	BROMOCHLOROMETHANE	INTERNAL STANDARD #1
2	SS1	1,2-DICHLOROETHANE D4	SURROGATE STANDARD#1
3	45V	CHLOROMETHANE	
4	46V	BROMOMETHANE	
5	88V	VINYL CHLORIDE	
6	16V	CHLOROETHANE	
7	44V	METHYLENE CHLORIDE	
8	13H	ACETONE	
9	21H	ACROLEIN	
10	15H	CARBON DISULFIDE	
11	24H	TRICHLOROFLUOROMETHANE	
12	22H	ACRYLONITRILE	
13	29V	1,1-DICHLOROETHYLENE	
14	13V	1,1-DICHLOROETHANE	
15		1,2-DICHLOROETHENE (TOTAL)	
16	23V	CHLOROFORM	
17	10V	1,2-DICHLOROETHANE	
18	14H	2-BUTANONE	
19		CYCLOHEXANE	
20	IS2	1,4-DIFLUOROBENZENE	INTERNAL STANDARD #2
21	11V	1,1,1-TRICHLOROETHANE	
22	6V	CARBON TETRACHLORIDE	
23	19H	VINYL ACETATE	
24	48V	BROMODICHLOROMETHANE	
25	32V	1,2-DICHLOROPROPANE	
26	33VC	CIS-1,3-DICHLOROPROPENE	
27		TRICHLOROETHYLENE	
28	51V	DIBROMOCHLOROMETHANE	
29	14V	1,1,2-TRICHLOROETHANE	
30	4V	BENZENE	
31	33VT	TRANS-1,3-DICHLOROPROPENE	
32		2-CHLOROETHYLVINYLETHER	
33	47V	BROMOFORM	
34	IS3	CHLOROBENZENE D5	INTERNAL STANDARD #3
35	SS2	TOLUENE D8	SURROGATE STANDARD #2
36	SS3	4-BROMOFLUOROBENZENE	SURROGATE STANDARD #3
37	17H	4-METHYL-2-PENTANONE	
38	16H	2-HEXANONE	
39	85V	TETRACHLOROETHYLENE	
40	15V	1,1,2,2-TETRACHLOROETHANE	
41	86V	TOLUENE	
42	7V	CHLOROBENZENE	
43	38V	ETHYLBENZENE	
44	18H	STYRENE	
45		XYLENES (TOTAL)	
46	26B	1,3-DICHLOROBENZENE	
47	25B	1,2-DICHLOROBENZENE	

No	Name
48	27B 1,4-DICHLOROBENZENE
49	XYLENES
50	METHYL-T-BUTYLETHER

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	153	5:06	1	1.000	A BB	45768.	50.000 UG/L	14.93
2	65	229	7:38	1	1.497	A BB	117955.	53.680 UG/L	16.03
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	84	87	2:54	1	0.569	A BB	18567.	13.134 UG/L	3.92
8	43	101	3:22	1	0.660	A VB	3325.	9.176 UG/L	2.74
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
17	NOT FOUND								
18	NOT FOUND								
19	NOT FOUND								
20	114	459	15:18	20	1.000	A BB	241678.	50.000 UG/L	14.93
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	NOT FOUND								
26	NOT FOUND								
27	NOT FOUND								
28	NOT FOUND								
29	NOT FOUND								
30	NOT FOUND								
31	NOT FOUND								
32	NOT FOUND								
33	NOT FOUND								
34	117	605	20:10	34	1.000	A BB	238218.	50.000 UG/L	14.93
35	98	571	19:02	34	0.944	A BB	268901.	54.962 UG/L	16.42
36	95	738	24:36	34	1.220	A BB	201890.	53.935 UG/L	16.11
37	NOT FOUND								
38	NOT FOUND								
39	NOT FOUND								
40	NOT FOUND								
41	NOT FOUND								
42	NOT FOUND								
43	NOT FOUND								
44	NOT FOUND								
45	NOT FOUND								
46	NOT FOUND								
47	NOT FOUND								
48	NOT FOUND								
49	NOT FOUND								
50	NOT FOUND								

Quantitation Report File: W092603

Data: W092603.TI
09/26/91 12:30:00
Sample: 91LVW157-MB1 VOA BLK
Conds.: 1050W, VO, METHOD 2
Formula: W092601 Instrument: 1050W Weight: 0.008
Submitted by: Analyst: PSS Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

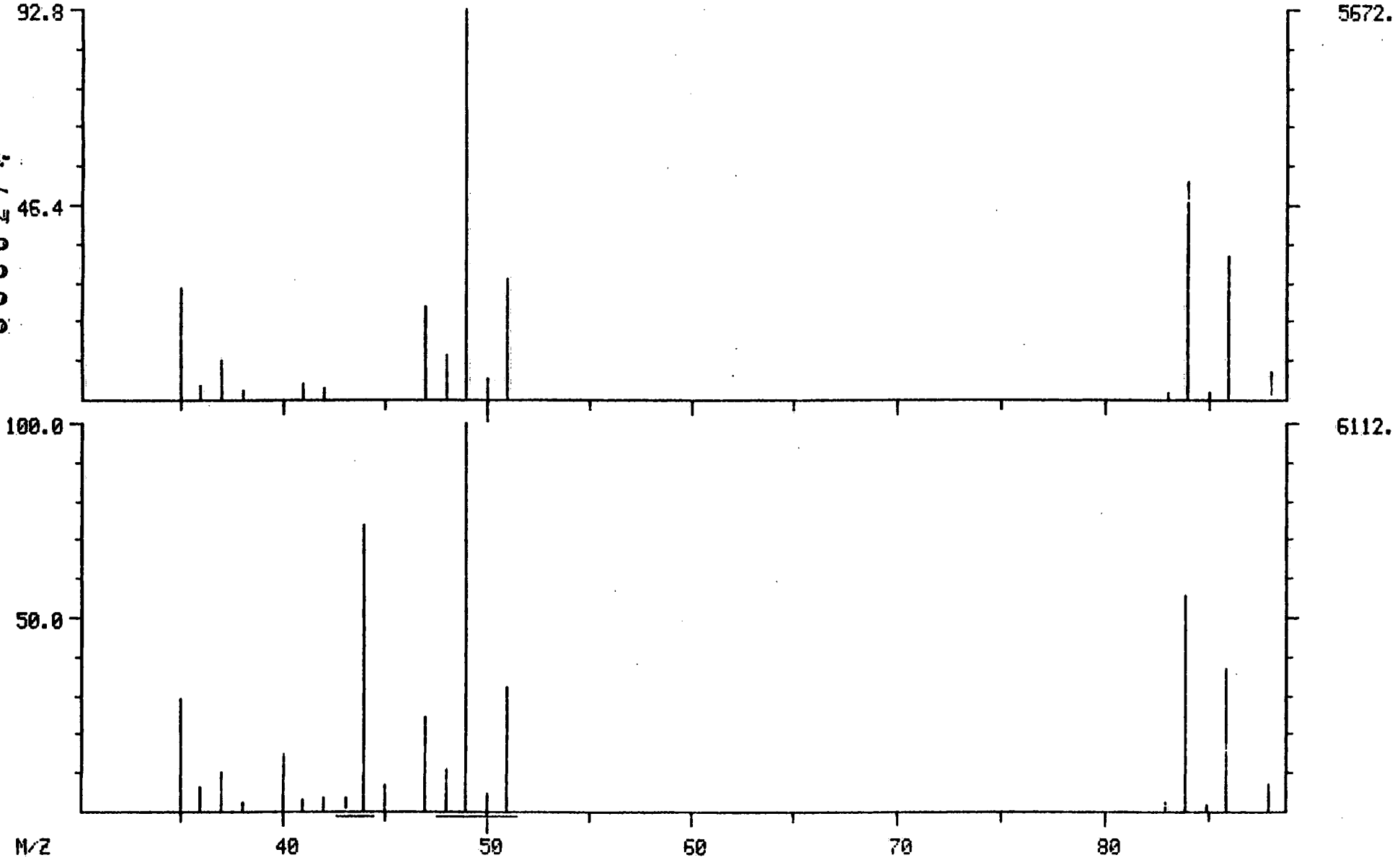
No	Name
51	DIETHYLETHER
52	T-BUTYL ALCOHOL

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	NOT FOUND								
52	NOT FOUND								

DUAL MASS SPECTRUM
09/26/91 12:30:00 + 2:54
SAMPLE: 91LVW157-MB1 VOA BLK
CONDS.: 1050W, VO, METHOD 2
GC TEMP: 75 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: W092603 #87
CALI: W092603 #2

BASE M/Z: 49/ 49
RIC: 18591./ 26303.

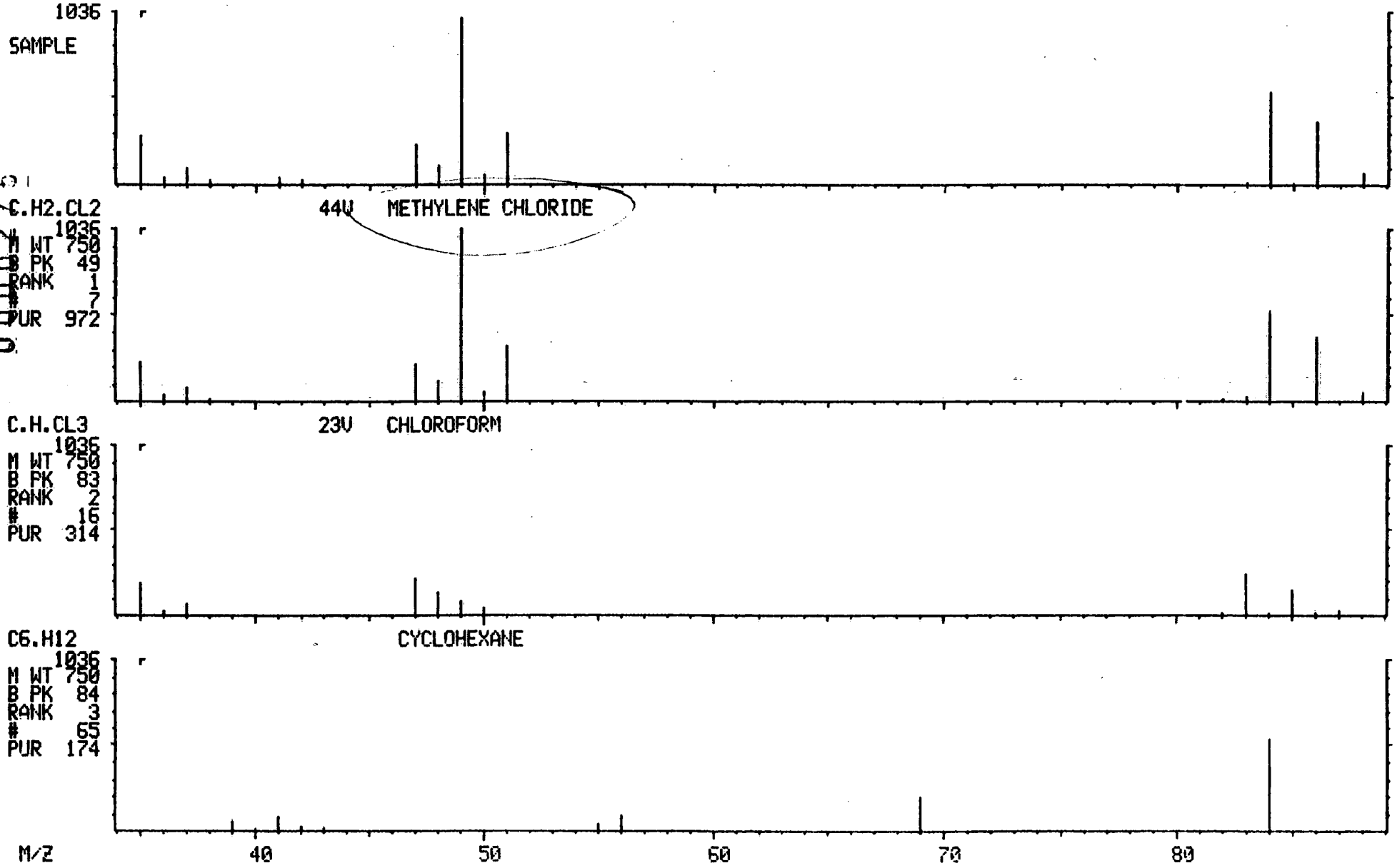


000027

LIBRARY SEARCH
09/26/91 12:30:00 + 2:54
SAMPLE: 91LVW157-MB1 VOA BLK
CONDS.: 1050W, VO, METHOD 2
ENHANCED (S 15B 2N 0T)

DATA: W092603 # 87
CALI: W092603 # 2

BASE M/Z: 49
RIC: 18591.



1A
VOLATILE ORGANICS ANALYSIS SHEET 0000276

CLIENT SAMPLE NO.

MW-5MS

Lab Name: Roy F. Weston, Inc. Work Order: 3600-04-90-0000

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 9109L758-005 MS

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W092520

Level: (low/med) LOW

Date Received: 09/20/91

% Moisture: not dec. _____

Date Analyzed: 09/25/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

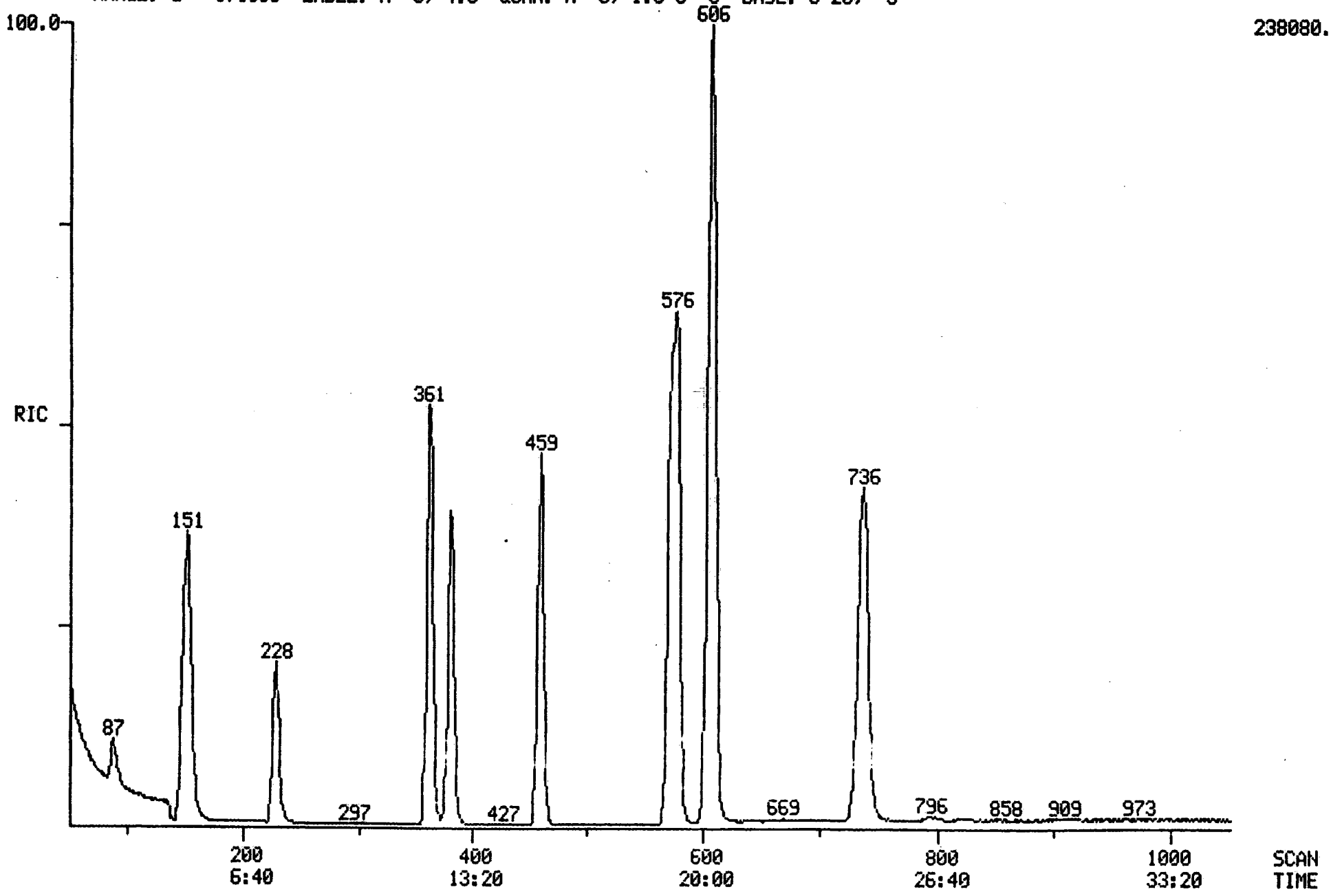
CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	12	B
75-35-4	1,1-Dichloroethene		S
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene		S
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene		S
10061-02-6	Trans-1,3-Dichloropropene	5	U
110-75-8	2-chloroethylvinylether	10	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene		S
108-90-7	Chlorobenzene		S
100-41-4	Ethylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
75-69-4	Trichlorofluoromethane	5	U
1330-20-7	Xylene (total)	1	J

S: SPIKE COMPOUND

RIC
09/25/91 23:19:00
SAMPLE: 9109L758-005S L.E.CARPENTER 5.0ML SPIKE
CONDS.: 1050W, VO, METHOD 2
RANGE: G 1,1050 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: W092520 #1
CALI: W092520 #2

SCANS 50 TO 1050



0000277

Quantitation Report File: W092520

Data: W092520.TI
09/25/91 23:19:00
Sample: 9109L758-005S L.E.CARPENTER 5.0ML SPIKE
Conds.: 1050W, VO, METHOD 2
Formula: W092504 Instrument: 1050W Weight: 0.008
Submitted by: Analyst: PSS Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	IS1	BROMOCHLOROMETHANE	INTERNAL STANDARD #1
2	SS1	1,2-DICHLOROETHANE D4	SURROGATE STANDARD#1
3	45V	CHLOROMETHANE	
4	46V	BROMOMETHANE	
5	88V	VINYL CHLORIDE	
6	16V	CHLOROETHANE	
7	44V	METHYLENE CHLORIDE	
8	13H	ACETONE	
9	21H	ACROLEIN	
10	15H	CARBON DISULFIDE	
11	24H	TRICHLOROFLUOROMETHANE	
12	22H	ACRYLONITRILE	
13	29V	1,1-DICHLOROETHYLENE	
14	13V	1,1-DICHLOROETHANE	
15		1,2-DICHLOROETHENE (TOTAL)	
16	23V	CHLOROFORM	
17	10V	1,2-DICHLOROETHANE	
18	14H	2-BUTANONE	
19		CYCLOHEXANE	
20	IS2	1,4-DIFLUOROBENZENE	INTERNAL STANDARD #2
21	11V	1,1,1-TRICHLOROETHANE	
22	6V	CARBON TETRACHLORIDE	
23	19H	VINYL ACETATE	
24	48V	BROMODICHLOROMETHANE	
25	32V	1,2-DICHLOROPROPANE	
26	33VC	CIS-1,3-DICHLOROPROPENE	
27		TRICHLOROETHYLENE	
28	51V	DIBROMOCHLOROMETHANE	
29	14V	1,1,2-TRICHLOROETHANE	
30	4V	BENZENE	
31	33VT	TRANS-1,3-DICHLOROPROPENE	
32		2-CHLOROETHYLVINYLETHER	
33	47V	BROMOFORM	
34	IS3	CHLOROBENZENE D5	INTERNAL STANDARD #3
35	SS2	TOLUENE D8	SURROGATE STANDARD #2
36	SS3	4-BROMOFLUOROBENZENE	SURROGATE STANDARD #3
37	17H	4-METHYL-2-PENTANONE	
38	16H	2-HEXANONE	
39	85V	TETRACHLOROETHYLENE	
40	15V	1,1,2,2-TETRACHLOROETHANE	
41	86V	TOLUENE	
42	7V	CHLOROBENZENE	
43	38V	ETHYLBENZENE	
44	18H	STYRENE	
45		XYLENES (TOTAL)	
46	26B	1,3-DICHLOROBENZENE	
47	25B	1,2-DICHLOROBENZENE	

No	Name	
48	27B	1,4-DICHLOROBENZENE
49		XYLENES
50		METHYL-T-BUTYLETHER

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	152	5:04	1	1.000	A BB	45890.	50.000 UG/L	8.24
2	65	228	7:36	1	1.500	A BB	106393.	43.390 UG/L	7.15
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	84	87	2:54	1	0.572	A BB	14061.	11.739 UG/L	1.93
8	43	100	3:20	1	0.658	A BB	3835.	13.363 UG/L	2.20
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	NOT FOUND								
13	96	148	4:56	1	0.974	A BB	58879.	58.303 UG/L	9.60
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
17	NOT FOUND								
18	NOT FOUND								
19	NOT FOUND								
20	114	459	15:18	20	1.000	A BB	249034.	50.000 UG/L	8.24
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	NOT FOUND								
26	NOT FOUND								
27	130	361	12:02	20	0.786	A BB	118449.	54.912 UG/L	9.05
28	NOT FOUND								
29	97	378	12:36	20	0.824	A BB	339.	0.247 UG/L	0.04
30	78	380	12:40	20	0.828	A BB	228729.	57.080 UG/L	9.40
31	75	381	12:42	20	0.830	A BB	3827.	1.895 UG/L	0.31 *
32	NOT FOUND								
33	NOT FOUND								
34	117	604	20:08	34	1.000	A BB	246961.	50.000 UG/L	8.24
35	98	571	19:02	34	0.945	A BB	245814.	45.764 UG/L	7.54
36	95	736	24:32	34	1.219	A BB	193372.	48.031 UG/L	7.91
37	NOT FOUND								
38	NOT FOUND								
39	NOT FOUND								
40	NOT FOUND								
41	92	576	19:12	34	0.954	A BB	175693.	59.541 UG/L	9.81
42	112	608	20:16	34	1.007	A BB	250600.	61.491 UG/L	10.13
43	NOT FOUND								
44	NOT FOUND								
45	106	824	27:28	34	1.364	A BB	561.	0.272 UG/L	0.04
46	NOT FOUND								
47	NOT FOUND								
48	NOT FOUND								
49	106	794	26:28	34	1.315	A BB	2261.	1.069 UG/L	0.18
50	NOT FOUND								

P55 10/21

Quantitation Report File: W092520

Data: W092520.TI
09/25/91 23:19:00
Sample: 9109L758-005S L.E. CARPENTER 5.0ML SPIKE
Conds.: 1050W, VO, METHOD 2
Formula: W092504 Instrument: 1050W Weight: 0.008
Submitted by: Analyst: PSS Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
51	DIETHYLETHER
52	T-BUTYL ALCOHOL

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	NOT FOUND								
52	NOT FOUND								

1A
VOLATILE ORGANICS ANALYSIS SHEET

0000281

CLIENT SAMPLE NO.

MW-5MSD

Lab Name: Roy F. Weston, Inc. Work Order: 3600-04-90-0000

Client: WSI-LE CARPENTER

Matrix: WATER

Lab Sample ID: 9109L758-005 MSD

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W092604

Level: (low/med) LOW

Date Received: 09/20/91

% Moisture: not dec. _____

Date Analyzed: 09/26/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

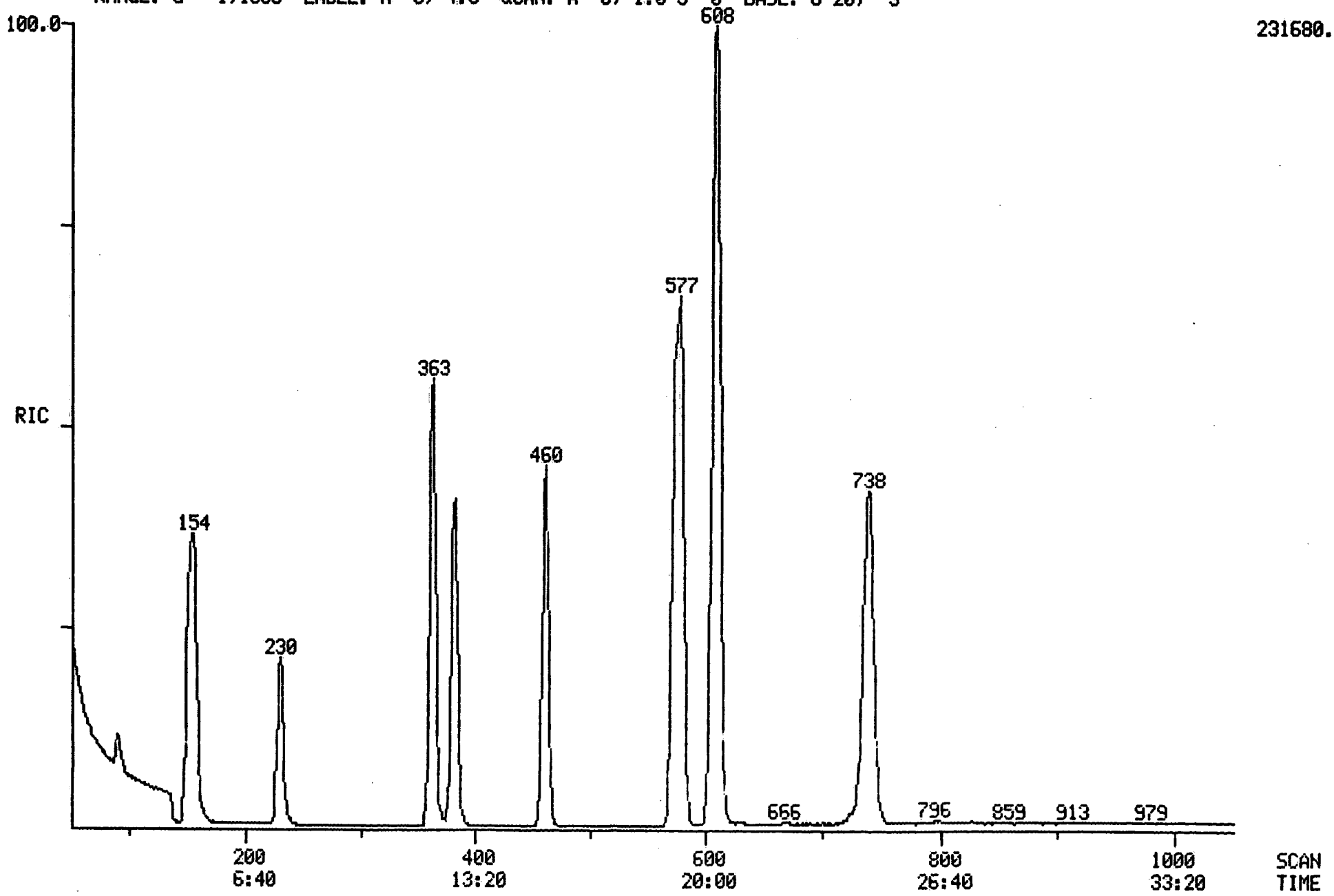
CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	6	B
75-35-4	1,1-Dichloroethene		S
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene		S
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene		S
10061-02-6	Trans-1,3-Dichloropropene	5	U
110-75-8	2-chloroethylvinylether	10	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene		S
108-90-7	Chlorobenzene		S
100-41-4	Ethylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
75-69-4	Trichlorofluoromethane	5	U
1330-20-7	Xylene (total)	5	U

S: SPIKE COMPOUND

RIC
09/26/91 14:39:00
SAMPLE: 9109L758-005T L.E.CARPENTER 5.0ML SPIKE DUP
CONDS.: 1050W, VO, METHOD 2
RANGE: G 1,1050 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: W092604 #1
CALI: W092604 #2

SCANS 50 TO 1050



00002282

Quantitation Report File: W092604

Data: W092604.TI
09/26/91 14:39:00
Sample: 9109L758-005T L.E.CARPENTER 5.0ML SPIKE DUP
Conds.: 1050W, VO, METHOD 2
Formula: W092601 Instrument: 1050W Weight: 0.009
Submitted by: Analyst: PSS Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	IS1	BROMOCHLOROMETHANE	INTERNAL STANDARD #1
2	SS1	1,2-DICHLOROETHANE D4	SURROGATE STANDARD#1
3	45V	CHLOROMETHANE	
4	46V	BROMOMETHANE	
5	88V	VINYL CHLORIDE	
6	16V	CHLOROETHANE	
7	44V	METHYLENE CHLORIDE	
8	13H	ACETONE	
9	21H	ACROLEIN	
10	15H	CARBON DISULFIDE	
11	24H	TRICHLOROFLUOROMETHANE	
12	22H	ACRYLONITRILE	
13	29V	1,1-DICHLOROETHYLENE	
14	13V	1,1-DICHLOROETHANE	
15		1,2-DICHLOROETHENE (TOTAL)	
16	23V	CHLOROFORM	
17	10V	1,2-DICHLOROETHANE	
18	14H	2-BUTANONE	
19		CYCLOHEXANE	
20	IS2	1,4-DIFLUOROBENZENE	INTERNAL STANDARD #2
21	11V	1,1,1-TRICHLOROETHANE	
22	6V	CARBON TETRACHLORIDE	
23	19H	VINYL ACETATE	
24	48V	BROMODICHLOROMETHANE	
25	32V	1,2-DICHLOROPROPANE	
26	33VC	CIS-1,3-DICHLOROPROPENE	
27		TRICHLOROETHYLENE	
28	51V	DIBROMOCHLOROMETHANE	
29	14V	1,1,2-TRICHLOROETHANE	
30	4V	BENZENE	
31	33VT	TRANS-1,3-DICHLOROPROPENE	
32		2-CHLOROETHYLVINYLETHER	
33	47V	BROMOFORM	
34	IS3	CHLOROBENZENE D5	INTERNAL STANDARD #3
35	SS2	TOLUENE D8	SURROGATE STANDARD #2
36	SS3	4-BROMOFLUOROBENZENE	SURROGATE STANDARD #3
37	17H	4-METHYL-2-PENTANONE	
38	16H	2-HEXANONE	
39	85V	TETRACHLOROETHYLENE	
40	15V	1,1,2,2-TETRACHLOROETHANE	
41	86V	TOLUENE	
42	7V	CHLOROBENZENE	
43	38V	ETHYLBENZENE	
44	18H	STYRENE	
45		XYLENES (TOTAL)	
46	26B	1,3-DICHLOROBENZENE	
47	25B	1,2-DICHLOROBENZENE	

No	Name	
48	27B	1,4-DICHLOROBENZENE
49		XYLENES
50		METHYL-T-BUTYLETHER

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	154	5:08	1	1.000	A BB	47017.	50.000 UG/L	7.97
2	65	230	7:40	1	1.494	A BB	106007.	46.961 UG/L	7.49
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	84	89	2:58	1	0.578	A BB	8788.	6.051 UG/L	0.96
8	43	103	3:26	1	0.669	A BB	3037.	8.158 UG/L	1.30
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	NOT FOUND								
13	96	150	5:00	1	0.974	A BB	69367.	66.963 UG/L	10.67
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
17	NOT FOUND								
18	NOT FOUND								
19	NOT FOUND								
20	114	460	15:20	20	1.000	A BB	235043.	50.000 UG/L	7.97
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	NOT FOUND								
26	NOT FOUND								
27	130	362	12:04	20	0.787	A BB	123196.	58.830 UG/L	9.38
28	NOT FOUND								
29	NOT FOUND								
30	78	382	12:44	20	0.830	A BB	234541.	62.554 UG/L	9.97
31	75	382	12:44	20	0.830	A BB	3735.	2.127 UG/L	0.34
32	NOT FOUND								
33	NOT FOUND								
34	117	606	20:12	34	1.000	A BB	239365.	50.000 UG/L	7.97
35	98	572	19:04	34	0.944	A BB	245968.	50.034 UG/L	7.98
36	95	738	24:36	34	1.218	A BB	186771.	49.656 UG/L	7.92
37	NOT FOUND								
38	NOT FOUND								
39	NOT FOUND								
40	NOT FOUND								
41	92	578	19:16	34	0.954	A BB	176484.	62.648 UG/L	9.99
42	112	609	20:18	34	1.005	A BB	251182.	63.259 UG/L	10.08
43	NOT FOUND								
44	NOT FOUND								
45	NOT FOUND								
46	NOT FOUND								
47	NOT FOUND								
48	NOT FOUND								
49	106	798	26:36	34	1.317	A BB	621.	0.148 UG/L	0.02
50	NOT FOUND								

Quantitation Report File: W092604

Data: W092604.TI
09/26/91 14:39:00
Sample: 9109L758-005T L.E.CARPENTER 5.0ML SPIKE DUP
Conds.: 1050W, VO, METHOD 2
Formula: W092601 Instrument: 1050W Weight: 0.009
Submitted by: Analyst: PSS Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
51	DIETHYLETHER
52	T-BUTYL ALCOHOL

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	NOT FOUND								
52	NOT FOUND								

WESTON

VI. Additional Documentation

A. Extraction Record

SAMPLE PREP RECORD

Sheet no.: 1

Extract. Date: 09/26/91 Extraction Batch No: 91LVK168 Analyst: RL Method: N/A

Test: O624 Cleanup Date: Analyst: Client: CASE NF891NYSDEC

LIMS Report Date: 10/22/91 Solvent: Adsorbent:

Sample No:	Client Name / Client ID	pH	Initial WT/VOL	Surr. Mult.	Spike Mult.	Final VOL	Final VOL	Split Mult.	GPC Y/N	% Solids	C/D FACTOR
9109L737-	CASE NF891NYSDEC										
001 H D1	1001	7	5	1.0		5		1.0	N		1.0
001 HS	1001	7	5	1.0	1.0	5		1.0	N		1.0
001 HT	1001	7	5	1.0	1.0	5		1.0	N		1.0
004 H D1	1003	7	5	1.0		5		1.0	N		1.0
9109L758-	WSI-LE CARPENTER										
001 P	MW-1	7	5	1.0		5		1.0	N		1.0
9109L768-	PEASE AFB										
002 H	13-7296-B306	7	5	1.0		5		1.0	N		1.0
9109L784-	MK FERGUSON-WSSRAP										
001 H	TBPW	7	5	1.0		5		1.0	N		1.0
002 H	OOOO	7	5	1.0		5		1.0	N		1.0
002 HS	OOOO	7	5	1.0	1.0	5		1.0	N		1.0
002 HT	OOOO	7	5	1.0	1.0	5		1.0	N		1.0
91LVK168-MB1 H		7	5	1.0		5		1.0	N		1.0
91LVK168-MB1 HS		7	5	1.0	1.0	5		1.0	N		1.0
91LVK168-MB1 P		7	5	1.0		5		1.0	N		1.0

Comments:
Surrogate:
Spike:

Extracts Transferred	Relinquished By	Date Time	Received By	Date Time	Reason for Transfer

000287

SAMPLE PREP RECORD

Sheet no.: 1

Extract. Date: 09/27/91 Extraction Batch No: 91LVK169 Analyst: RL Method: N/A

Test: O624 Cleanup Date: Analyst: Client: WSI-LE CARPENTER

LIMS Report Date: 10/22/91 Solvent: Adsorbent:

Sample No:	Client Name Client ID	pH	Initial WT/VOL	Surr. Mult.	Spike Mult.	Final VOL	Final VOL	Split Mult.	GPC Y/N	% Solids	C/D FACTOR
9109L758-	WSI-LE CARPENTER										
002 P D1	MW-2	7	5	1.0		5		1.0	N		1.0
003 P	MW-3	7	5	1.0		5		1.0	N		1.0
91LTV050-LB1 T		7	5	1.0		5		1.0	N		1.0
91LVK169-MB1 P		7	5	1.0		5		1.0	N		1.0
91LVK169-MB1 T		7	5	1.0		5		1.0	N		1.0

Comments:
Surrogate:
Spike:

Extracts Transferred	Relinquished By	Date Time	Received By	Date Time	Reason for Transfer

000028

SAMPLE EXTRACTION RECORD

Sheet no.: 1

Extract. Date: 09/27/91 Extraction Batch No: 91LVK170 Analyst: BB Method: N/A

Test: Cleanup Date: Analyst: Client:

LIMS Report Date: 10/22/91 Solvent: Adsorbent:

Sample No:	Client Name / Client ID	pH	Initial WT/VOL	Surr. Mult.	Spike Mult.	Final VOL	Final VOL	Split Mult.	GPC Y/N	% Solids	C/D FACTOR

Comments:
Surrogate:
Spike:

Extracts Transferred	Relinquished By	Date Time	Received By	Date Time	Reason for Transfer

000289

WESTON

END OF DATA PACKAGE