



ENVISION ENVIRONMENTAL, INC.

PHASE II ENVIRONMENTAL SITE ASSESSMENT REPORT

of

REXAM DSI INC.
BRIDGE STREET
BROWNVILLE, NY 13615

for

REXAM INC.
CHARLOTTE, NC 28209

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ENVISION ENVIRONMENTAL, INC.

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TABLE OF CONTENTS

	<u>Page</u>
1.0 INTRODUCTION	1
1.1 Sampling Approach	1
1.2 Phase I Identified RECs	2
2.0 SITE CHARACTERISTICS	6
2.1 Topography	6
2.2 Geology	6
2.3 Hydrogeology	7
3.0 SOIL INVESTIGATION ACTIVITIES	8
4.0 GROUNDWATER INVESTIGATION ACTIVITIES	12
5.0 TRENCH DRAIN AND ROCK CHIP SAMPLING	13
6.0 ANALYTICAL RESULTS	17
6.1 Soil Data	18
6.2 Groundwater Data	20
7.0 CONCLUSIONS/RECOMMENDATIONS	22

FIGURES

Figure 1	Boring Location Map
Figure 2	Fire Insurance Map, 1926
Figure 3	First Floor Plan
Figure 4	Second Floor Plan
Figure 5	Third Floor Plan
Figure 6	Fourth Floor Plan

TABLES

Table 1	Sampling and Analysis Summary
Table 2	Volatile Organic Compounds Sampling and Analysis Summary
Table 3	Base Neutral Compounds Sampling and Analysis Summary
Table 4	Priority Pollutant Metals Sampling and Analysis Summary
Table 5	PCB Sampling and Analysis Summary

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TABLE OF CONTENTS (cont.)

APPENDICES

Appendix 1	Soil Boring Lithologic Logs and Purge Forms
Appendix 2	Laboratory Analytical Report
Appendix 3	NYSDEC Cleanup Guidance Levels

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significant PID readings were encountered, soil samples were collected from areas of soil discoloration; from the six (6) inch interval above the water table; or in the intervals specific to an REC (as described below). If the boring was determined to be "clean", based upon PID readings, then soil samples were collected under the following criteria:

- Under asphalt for potential surface releases – sample 18 – 24" below grade for all parameters;
- Under concrete for potential surface releases – sample 6 - 12" below grade for all parameters;
- Under non-paved areas – sample 0 - 6" below grade for all parameters except VOCs. For VOCs, sample at least 18 – 24" below grade or changes in lithology.

An upgradient soil sample (TPE-3) was collected and analyzed for VOC+15, BN+15, PPM and PCBs in order to determine background conditions onsite. Detailed lithologic logs were prepared for all borings and are presented in Appendix 1.

Groundwater Sampling

Two (2) temporary piezometers were installed using the Geoprobe by sampling continuously to the top of bedrock or to the water table in order to evaluate soil conditions and determine if groundwater was present in the unconsolidated material. Piezometers consisted of 1.0" diameter PVC screens (0.01" slot) and riser.

The two (2) temporary piezometers were installed onsite to intercept first water. One (1) piezometer (PZ-1) was located onsite near the northeast corner of the Site, in the parking lot area located over historic fill material. Another piezometer (PZ-2) was located on the west side of the property below the toe of the fill embankment and adjacent to the sanitary sewer line manhole. Refer to Figure 1 for all sampling locations.

The wells were purged using the slow-purge method and peristaltic pump. Field parameters measured include pH, temperature, electrical conductivity and dissolved oxygen (DO). These parameter values are listed on the purge sheets presented in Appendix 1. All sampling was conducted by following appropriate USEPA-approved decontamination/containerization and QA/QC procedures. STL-Envirotech Laboratories, a NY-certified laboratory, analyzed all collected samples.

1.2 Phase I Identified RECs

The following identifies the eleven (11) RECs that were investigated as part of the Phase II activities. The Main Building consists of four (4) floors, the top floor (ground level) is designated at the 1st floor, with floor numbers increasing downward. The RECs are also identified on Figures 1 - 5. Further details on the RECs can be found in ENVISION's Phase I report.

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Main Plant Interior

1. REC - 1: 1st Floor

An inactive floor trench drain in the Raw Material Storage Area north of the paper machine previously collected liquids and drained to the wastewater pre-treatment system on the 2nd floor. The trench was inspected for integrity along its exposed length; and areas that are lined or bare bedrock were noted. An active floor trench drain on the north side of the Off Line Coater near the Coater Kitchen was also inspected for integrity.

2. REC - 2: 2nd Floor

A floor trench drain exists in the middle of the 2nd floor, which drains fluids from below the paper machine to the 3rd floor. This trench was inspected for integrity. The former Oil Room is located in the northeast corner of this floor. Significant oil staining exists on the limestone wall in the area where oil drums were formerly stored. A composite rock chip sample (RC-1) was collected from the north wall and analyzed for VOC+15, BN+15 and PCBs. The walls were also inspected for fractures along which petroleum may migrate into the bedrock.

3. REC - 3: 3rd Floor

Oil stains are located on the bedrock wall along the southeast side of this floor. According to facility personnel, the oil staining is a historical issue from the former use of water wheels in this section of the building. The gearboxes associated with the former water wheels more than likely leaked oil over the years and contributed to the staining on the walls. The use of the water wheels was discontinued decades ago and there is currently no source of oil leakage in this area of the building. The limestone was inspected for fractures and a composite rock chip sample (RC-2) was collected for VOC+15, BN+15 and PCB analysis. Two (2) floor sumps on this floor are reportedly associated with the wastewater equalization tank. The integrity of these sumps was evaluated. A floor trench is constructed in bedrock near the old coal-fired boiler south of the Electrical Room. The integrity of this floor trench was evaluated with special emphasis on locating open fractures.

4. REC - 4: 4th Floor

The sump at the base of the elevator shaft was inspected for cracks and fractures in bedrock. The integrity of two (2) floor sumps was evaluated. Oil stains are located on the southeast wall of this floor. These oil stains are reportedly associated with the gearboxes from the former water wheels mentioned in REC - 3. The wall is composed of limestone bedrock. A composite rock chip sample (RC-4) was collected and analyzed for VOC+15, BN+15 and PCB compounds.

Main Plant Exterior:

5. REC - 5: Dumpster Area

Dumpsters are staged outside of the northeast corner of the Site. Latex and dye-coated paper scrap and scrap metal are disposed of in these dumpsters. A storm water catch basin was reportedly located next to these dumpsters. A sediment sample (EB-2) was collected from the bottom of the basin and analyzed for VOC+15, BN+15 and PPM. The pavement near the dumpsters was also inspected for cracks and a soil sample (EB-1) was collected beneath an area of cracked pavement and analyzed for VOC+15, BN+15 and PPM.

6. REC - 6: Boiler Room Sump

A sump covered with a metal grate exists in the driveway near the Boiler Room. The integrity of the sump was evaluated.

7. REC - 7: Historic Fill

The parking lot north and west of the Main Plant is constructed on demolition debris used to raise the elevation of the area. Two (2) soil borings (EB-3 and EB-4) and one (1) test pit (TPE-3) were advanced through the fill using the Geoprobe and excavator. Soil samples were collected based upon field screening results or as discussed previously. Soil samples were analyzed for VOC+15, BN+15, PPM and PCBs. One (1) temporary piezometer (PZ-1) was installed using 1" PVC screen. A groundwater sample was not collected because the piezometer was dry.

8. REC - 8: Old Water Flume

A storm water drainage pipe is bedded in an old water flume on the northwest side of the Site. The flume may have received oil from the 1992 fuel oil spill that occurred between the Site and the flume. The bedding material in the flume and around the storm water pipe in this area was inspected by excavating trenches using a backhoe and collecting soil samples. Samples were analyzed for VOC+15 and BN+15. Two (2) trenches (TPE-1 and TPE-2) were excavated between the Black River and previous test pit TP-3. Test pit TP-3 was installed during the 1992 remedial activities, which addressed the 1992 oil release (see REC - 9).

9. REC - 9: Previous Fuel Oil Spill Area

A leak from a No. 6 fuel oil pipe occurred on the north side of the Site in 1992. As part of the remediation effort in 1992, soils were excavated in this area and three (3) test pits were excavated (TP-1 - TP-3). Although the New York State Department of Environmental Conservation (NYSDEC) issued a No Further Action letter for this

release, documentation on post-excavation soil conditions was not available. As a result, one (1) soil boring (EB-4) was completed by ENVISION in the vicinity of TP-1 to confirm that removal of the impacted soils was completed. Bedrock was located 17.5' below grade in this area. Soil samples from EB-4 were analyzed for VOC+15, BN+15, PPM and PCBs. Please note that this boring also addressed REC - 7 (Historic Fill). A monitoring well is also located in the former spill area. This well (MW-1; 75' deep) was sampled and analyzed for VOC+15, BN+15 and PPM.

10. REC - 10: Wastewater Pipeline

An abovegrade wastewater pipeline extends from the Main Plant to the Village of Brownville POTW, which is located west of the Site. The pipeline contains a cleanout with a manhole access. This manhole has overflowed in the past with process wastewater from the Site. The pavement below the cleanout was inspected for integrity and a soil boring/sample (EB-5) was installed. A temporary piezometer (PZ-2) was installed in the borehole. A soil sample was collected and analyzed for VOC+15 and BN+15. A groundwater sample was also collected and analyzed for VOC+15, BN+15 and PPM.

11. REC - 11: Warehouse Exterior

A floor drain previously existed in the Warehouse located east of Bridge Street. This drain reportedly discharged into Philomel Creek. A sample (EB-6) was collected from sediment located on bedrock immediately below the outfall. This sample was analyzed for VOC+15 and BN+15.

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2.0 SITE CHARACTERISTICS

REXAM DSI INC. is located at Bridge Street, in the Village of Brownville, Jefferson County, New York. The Site is located on a rectangular tract of land, approximately 3.8 acres in size, on the north side of the Black River. The Site consists of two (2) buildings. The Main Plant and Paper Production Facility is located on the west side of Bridge Street on about 3.5 acres. A Warehouse is located on the east side of Bridge Street on about 0.3 acres and is used for finished product storage, shipping/receiving and raw material storage.

The Main Plant consists of four (4) floors (numbers increase downward) with the 4th floor located within the flood zone of the Black River. The floors decrease in total area from the top or 1st level to the bottom or 4th level. The Main Plant consists of approximately 98,000 sq.ft. of floor space and the Warehouse consists of approximately 2,000 sq.ft. of floor space.

The Site is currently used for the production of latex-saturated paper (book coverings, etc.). The Site was previously used as a cotton mill and paper mill.

The Main Plant is built upon micritic limestone and the property generally slopes toward the southwest or toward the Black River. The northern portion of the property has been filled in with demolition material from a local bridge demolition. This area was previously a large bowl-shaped depression, a possible sinkhole that was filled in during the 1990's. A parking lot presently exists in this area (see Figure 1). Fire insurance maps from 1926 show a rock retaining wall approximately 25' in height bordering Bridge Street beneath the east side of the present parking lot. The area west of the wall was used as a planing mill and for coal storage at that time.

Concrete-lined water flumes are located on the north and west sides of the Main Plant. The flumes were previously used to float logs to the Site in the 1890's-early 1900's. These flumes are now covered with historic fill. A 30" diameter corrugated steel stormwater pipe was installed in the flume located parallel to the north side of the Site prior to being buried. Figure 2 is a copy of the Fire Insurance Map showing the Site features in 1926.

2.1 Topography

Area topography onsite ranges from 310 ft. above mean sea level north of the facility and 250 ft. south of the facility, at river level. Topography slopes gently toward the west across the parking lot area on the northeast corner of the property, then abruptly from the top of the historic fill to the flood plain level of the river on the west side of the Site adjacent to the Black River.

2.2 Geology

Surface deposits in the Site area consists of sandy, gravelly glacial till that have been formed into low, streamlined ridges trending northeast-southwest. These ridges may be drumlins formed beneath the Wisconsin continental glaciation that covered the area 10,000 - 12,000 years ago. Bedrock consists of carbonate rock belonging to the Black River Group of Middle Ordovician age (approximately 450 million years ago). The Chaumont, Lowville and Sugar River

limestones reportedly outcrop in the area. These carbonate rocks are dense, blocky, dark grey to brown grey limestones having bedding ranging 0.5 - 2.0' in thickness with shaley partings. Small-scale karst features including dissolution along bedding planes, joints and fractures have developed in the bedrock.

Bedrock has been subjected to brittle fracturing resulting in a dominant conjugate joint set striking northwest and north-northeast. These joints are planar, subvertical and spaced 5 - 10' apart. Minor jointing is confined to individual beds. The direction of maximum hydraulic conductivity would be parallel to bedding planes. A major fracture most likely extends east-west beneath the Black River, resulting in a very straight, entrenched river valley.

Onsite lithologies encountered during soil sampling include sandy fill materials comprised of coal ash, cinders, slag, coal, concrete, wood, rebar, sheet metal, wiring, limestone, etc. Fill was encountered primarily to the west of the buried retaining wall discussed in Section 2.0. Lithologies encountered west of or below the level of the historic fill include light grey clayey organic silts representing alluvial flood plain sediments.

2.3 Hydrogeology

Groundwater was not typically encountered in the historic fill. A thin damp zone was present above bedrock, but it did not yield groundwater to a temporary piezometer (PZ-1) after allowing the piezometer to remain in the ground overnight. Groundwater was encountered in the alluvial silt at the river level on the west side of the property at approximately 8' b.g.

Groundwater was encountered in the limestone in MW-1 between 40 - 75' below grade or approximately 15' below the base of the fill. MW-1 was installed in 1993 during an investigation conducted by others involving a release of No. 6 fuel oil that occurred in 1992. This well is 6" in diameter, completed with 40' of steel casing and as a stickup near the top of the fill slope adjacent to the north side of the building. The well reportedly can yield 3 - 5 gpm.

There are two (2) water-bearing zones onsite. One (1) was found in the unconsolidated native soil below the fill. The other water-bearing zone was found in the limestone bedrock. Based on the water levels recorded in MW-1 and PZ-2, these two (2) water-bearing zones appear to be connected.

A "disappearing" stream (Philomel Creek) is located east of the Warehouse. This stream resurges as a spring below the southeast corner of the Site, approximately 15' above the Black River.

3.0 SOIL INVESTIGATION ACTIVITIES

On October 25, 2000, four (4) soil borings were conducted using a Geoprobe 5400 machine and three (3) test pits were excavated using a Bobcat 328 backhoe at the Site. The Geoprobe utilized the direct-push method for soil sampling. This method hammers a 46" x 1.75" diameter clear acetate liner into the ground using a hydraulic hammer. Soil samples for headspace analysis were collected directly from the liner after field scanning the soil core with a PID. Samples having either the highest field screening PID results; located within the six (6) inch zone above the water table; located within lithology changes; or a representative sample from each tube were placed in laboratory containers for analysis. The results of the field screening/headspace readings are shown on the boring logs contained in Appendix 1.

The borings ranged in depth from 16 - 23.8 ft. b.g. Deep borings were conducted to determine depth to refusal (bedrock) and to locate the water table. Shallower test pits were conducted to determine soil conditions around a storm sewer with an invert 3 - 4' below grade. Figure 1 shows the boring locations in each REC located outside of the mill building onsite.

Only REC - 5, 7, 8, 9, 10 and 11 required soil sampling. The following describes the activities conducted in each of these RECs:

REC - 5: Dumpster Area

Metal 40 cu.yd. rolloff dumpsters are staged outside of the northeast corner of the Site. Latex and dye-coated paper scrap and scrap metal are disposed of in these dumpsters. A storm water catch basin was previously reported as being located next to these dumpsters. That catch basin had been relocated to approximately 25' north-northeast of the dumpster. A sample from the catch basin and a sample adjacent to the dumpsters was collected to determine if contaminants had migrated from the dumpsters to impact surrounding soil conditions.

Soil boring EB-1 was conducted in a crack in the cement pad on which the dumpsters were staged. EB-1 was located approximately 8' east of the dumpster. A soil sample was collected from the 0.5 - 1.0' interval occurring beneath the concrete. This sample was analyzed for VOC+15, BN+15 and for PPM.

EB-1 was sampled continuously to 16' below grade (b.g.). Fill material consisting of primarily coal ash, cinders and crushed concrete was encountered. Field screening did not detect any significant organic vapors. In order to determine the depth to bedrock or refusal, a blank was hammered to refusal at 26.9'. No groundwater was encountered in this boring.

Sediment sample EB-2 was collected from the inside bottom of the storm water catch basin and analyzed for VOC+15, BN+15 and PPM. No PID readings were detected in the sediment sample. The catch basin measured 2' x 2'8" x 4' in depth. A 6" steel pipe drained the basin toward the south to the Black River.

REC - 7: Historic Fill

The parking lot north of the Site is constructed on demolition debris and fill material used to raise the elevation of the area. This area is not paved and is used for employee parking. As discussed in Section 2.0, this area was previously approximately 25' lower in elevation and was used for coal storage and as a planing mill. Demolition debris, including cement boulders, had been filled into the area to raise it to its present elevation. The fill material consists of construction debris from the demolished Court Street Bridge. The State of New York Department of Transportation, Watertown, NY, authorized the use of the construction debris as fill material. A DOT letter dated May 13, 1993 states that the fill material contains no contaminated material (hazardous waste, industrial waste, or petroleum products through a spill). The purpose of sampling this fill was to determine if any contaminants had been introduced to the Site associated with the fill material.

Two (2) soil borings (EB-3 and EB-4) and one (1) test pit (TPE-3) were advanced through the fill using the Geoprobe and excavator. Soil samples were collected based upon field screening results or as discussed previously. Soil samples were analyzed for VOC+15, BN+15, PPM and PCBs.

Boring EB-3 was conducted near the east center part of the parking lot. Continuous soil samples were collected to refusal on limestone bedrock at 23.8' b.g. Materials encountered consisted mainly of ash, coal dust, cinders, wood and concrete chunks. The bottom 7' of the hole was slightly wet to wet. A soil sample was collected from the 16 - 16.5' interval for analyses. This sample appeared to be from the 6" interval above the water table and also was the interval having the highest headspace reading (1.9 units). A temporary piezometer (PZ-1) was installed in EB-3 using 15' of 1" PVC screen (0.01" slot). PZ-1 never produced any water for sampling. The piezometer was allowed to stand overnight but was still dry the next morning. The piezometer material was removed and the borehole was backfilled.

Boring EB-4 was located near MW-1 on the south side of the historic fill area adjacent to the Site. This is also in the vicinity of the previous test pit TP-1, excavated after the 1992 No. 6 fuel oil leak. The historic fill overlying the previous TP-1 area was replaced after the fuel oil release cleanup activities took place in 1992-93 (see ENVISION's Phase I report, Appendix 30 for previous No. 6 fuel oil spill investigation reports). Boring EB-4 was intended to characterize the historic fill as well as the soil conditions in the vicinity of the former oil release.

EB-4 encountered a sandy fill containing crushed limestone, concrete, bricks and clayey silts. A sample was collected at 1.5 - 2.0' b.g. due to an elevated headspace reading of 3.0 units. Soil samples were collected continuously to refusal on limestone bedrock at 17.5' b.g. No significant groundwater was encountered in the borehole. In order to investigate soil conditions at the base of the fill in the vicinity of the previous oil release, a sample was also collected from 16 - 16.5' b.g. Both collected samples were analyzed for VOC+15, BN+15, PPM and PCBs.

The fill material in this area was reported by plant personnel to contain large boulders of concrete near the western edge of the parking lot. A large backhoe was brought onsite and test

pit TPE-3 was excavated near the northwest corner of the parking lot. The pit was excavated to 12' below grade, at which point large chunks of concrete were encountered which prohibited deeper excavation. The historic fill material encountered was primarily a sandy fill having mixed concrete chunks, reinforcement bar, sheet metal, steel wire and silty clay material. A very moist light grey silty clay was encountered from 1.5 - 3.0' b.g. A sample was collected from this interval and analyzed for VOC+15, BN+15, PPM and PCBs. This sample was collected based upon the change in lithology and damp nature of this horizon.

REC - 8: Old Water Flume

A 30" corrugated metal storm water drainage pipe is bedded in an old water flume on the northwest side of the Site (see Figure 2). This area may have received oil from the 1992 No. 6 fuel oil spill that occurred between the mill building and the flume. The bedding material in the flume and around the storm water pipe was inspected by excavating two (2) trenches using a backhoe and collecting soil samples. Samples (TPE-1 and TPE-2) were analyzed for VOC+15 and BN+15.

Test Pit TPE-1 was excavated approximately 20' east of the northwest corner and 20' north of the mill building. TPE-1 encountered concrete, brick and crushed rock fill to 1' below grade, where the top of the storm water pipe was located. The pipe was bedded in a gravely sand that showed no indication of oil. A sample was collected from 3.0 - 3.5' b.g., or directly from below the pipe, and analyzed for VOC+15 and BN+15.

Test pit TPE-2 was excavated approximately 60' east of the northwest corner and 6' north of the mill building. This location is in the vicinity of previous test pit TP-3. Approximately 2' of fill consisting of bricks, cinders, concrete blocks, steel pipes, etc. and black silty sand were encountered above the storm water pipe. The pipe was bedded in a silty sand. A sample was collected from below the pipe in the 4 - 4.5' soil interval. The sample was analyzed for VOC+15 and BN+15. No indication of oil was detected during field screening or visual examination of the bedding material below and around the stormwater pipe from either test pits.

REC - 9: Previous Fuel Oil Spill Area

As previously discussed, a leak from a No. 6 fuel oil pipe occurred on the north side of the Site in 1992. During 1993, soils were excavated in this area and three (3) test pits (TP-1 – TP-3) were excavated. On October 25, 2000, boring EB-4 was completed and soil samples were collected from 1.5 – 2.0' and 16 - 16.5' in the vicinity of previous test pit TP-1 to confirm that removal of the impacted soils was completed. Bedrock was located 17.5' below grade in this area. The sample was analyzed for VOC+15, BN+15, PPM and PCBs. Please note that this boring also addressed REC – 7: Historic Fill. The two (2) test pits (TPE-1 and TPE-2) described above (REC – 8) were also sampled to confirm the findings of the 1992 oil release investigation.

A monitoring well was also installed in 1993 in the release area. This well (MW-1; 75' deep) was sampled and analyzed for VOC+15, BN+15 and PPM. See Section 4.0 for more information regarding groundwater sampling.

REC - 10: Wastewater Pipeline

An abovegrade wastewater pipeline extends from the Site to the Village of Brownville POTW, which is located west of the Site. The pipeline contains a cleanout with a manhole access. This manhole has overflowed in the past with process wastewater from the Site. The pavement below the cleanout was inspected for integrity. The concrete pavement was found to be cracked and deteriorated. Boring EB-5 was installed approximately 10' southwest of the manhole and a soil sample was collected from 1.2 - 1.7' below grade in a sandy ash material and analyzed for VOC+15 and BN+15. Soil samples were collected continuously to 16' b.g. from this boring. Groundwater was encountered approximately 7.8' b.g. Fill material, consisting of ash, sand, crushed concrete and rock, was sampled continuously to a depth of 8' b.g., after which a sandy silt alluvium was encountered. The water table was located close to this contact. No PID readings were detected in the soil column. A temporary piezometer (PZ-2) was installed in the borehole. A groundwater sample was collected and analyzed for VOC+15, BN+15 and PPM.

REC - 11: Warehouse Exterior

A floor drain previously existed in the Warehouse located east of Bridge Street. This drain discharged into Philomel Creek on the east side of the Warehouse. A 6" diameter steel pipe was located 70' north of the southeast corner of the building. This pipe was located 30" below the top of the foundation wall and was filled with concrete. A sample was collected from the loamy silt sediment located above a rusted metal plate sitting on bedrock immediately below the outfall. This sample (EB-6) was analyzed for VOC+15 and BN+15. The purpose for this sample was to determine if contaminants might have been discharged to the environment via the drain prior to its being abandoned.

Background Conditions

In order to determine background conditions at the Site, test pit TPE-3 was located near the north property line in the most upgradient location possible. No native soils were encountered in the excavation. See REC - 7 (Historic Fill) for details on TPE-3.

4.0 GROUNDWATER INVESTIGATION ACTIVITIES

One (1) bedrock monitoring well (MW-1) was previously installed onsite at the location shown on Figure 1. MW-1, located approximately in the center of the north side the Site, has a total depth of 75.2' b.g. and was constructed with 6" diameter steel casing grouted into bedrock at 40' b.g. The well was completed with a 2' stickup. Depth to the static water level in MW-1 was 42.0' on October 25, 2000, prior to purging and sampling. Groundwater samples were collected and analyzed for VOC+15, BN+15 and PPM. No PID readings were detected in the wellhead.

The purge form for MW-1 is presented in Appendix 1 of this report. Field parameters measured before sampling were as follows: pH 7.38; dissolved oxygen 0.0 ppm; electrical conductivity 0.62 mS/sec.; and temperature 10.23°C. Because of the depth to water, MW-1 was purged using a 2" submersible pump.

Two (2) temporary piezometers were installed onsite at the locations of borings EB-3 and EB-5 (see Figure 1). PZ-1 was located in historic fill near the east-center area of the parking lot. The bottom 5' of this borehole (EB-3) was damp to wet (19 - 24') and looked like it would yield water. Fifteen (15) feet of screen was installed in the borehole, which never produced any water. The well was allowed to stand overnight before it was removed and the borehole backfilled. No groundwater samples were obtained from PZ-1.

Temporary piezometer PZ-2 was installed west of the historic fill in recent alluvium (see lithologic log for EB-5). Sixteen (16') feet of screen was installed in the borehole. Groundwater was encountered at 8' b.g. The slow purge method (peristaltic pump) was used to purge the well. The purge form is located in Appendix 1. Field parameters measured before sampling were as follows: pH 7.09; dissolved oxygen 2.53 ppm; electrical conductivity 1.35 mS/sec.; and temperature 14.2°C. PZ-2 was sampled and analyzed for VOC+15, BN+15 and PPM.

Since PZ-1 was dry, a groundwater contour map and groundwater flow direction could not be determined onsite. At least three (3) data points are required to construct a groundwater contour/flow map. However, it appears that groundwater flow is towards the Black River.

5.0 TRENCH DRAINS AND ROCK CHIP SAMPLING

Trench drains are installed in the floors inside of the mill building. These trench drains collect wastewater from beneath various machines located on the upper three (3) floors and direct it to the wastewater sump/equalization tanks on the 3rd and 4th floors. The integrity of trenches and sumps were inspected by visually examining the length of the drainage devices (where accessible) and probing the sides and floors for cracks or deteriorating conditions using a hand probe (large screwdriver). When practical, the floor of the trench/sump was cleaned by hand in order to inspect the condition of the liner. Mr. Bob Murphy, Mr. Steve Lange and Mr. Jon Rose of REXAM DSI accompanied ENVISION personnel while they conducted the inspection.

In addition to examining the floor drains, samples of oil that was seeping along the bedrock walls in certain areas were collected. The oily bedrock was sampled by taking rock chip samples using a clean chisel and hammer. The rock chip samples (RC) were placed in glass jars and analyzed for VOC+15, BN+15 and PCBs.

Figures 3, 4, 5 and 6 show the floor plan for each floor. Figures 4, 5 and 6 also show the locations of rock chip samples collected onsite. The following is a summary of conditions observed on each floor:

REC – 1: 1st Floor

An inactive floor trench drain is located in the Raw Material Storage Area north of the paper machine. This drain is 122' in length, 9" wide and 2.5" deep. The drain previously collected liquids and drained to the wastewater pre-treatment system on the 2nd floor. The east 75' of trench was covered by a metal grate and the west 47' of the trench was covered by concrete. The trench was full of paper pulp and dirt and could not be thoroughly inspected. The base of the trench was solid where inspected. There was no bedrock exposed in the trench. Two (2) 3" dia. drain pipes were located in the base of the drain that discharged to the open air above the 2nd floor.

An active floor trench drain was located on the north side of the Off Line Coater, near the Coater Kitchen. This drain was 140' in length and gets deeper as it flows from east to west. The east end is 15" wide and 3" deep and the west end is 12" wide and 14" deep. The trench reportedly discharges to the 2nd floor at the west end. The trench flows from under the Coater Kitchen or mix room (north side of wall), to the Off Line Coater (south side of the wall), then back to the north side of the wall west of the dryer ovens. The trench is concrete lined throughout its length. The entire trench is covered by a metal grate except for the shallow (east) end beneath the mix tanks. Latex fluids were flowing from east to west in the trench at the time of inspection.

REC - 2: 2nd Floor

Floor Trenches

A floor trench drain exists in the middle of the 2nd floor, which drains fluids from below the paper machine to the 3rd floor. This trench is 8" deep and 10 - 12" wide on the west end. The sides

are constructed of concrete but the bottom of the trench is bare limestone bedrock. The bedrock floor appears to be a flat bedding plane. Wastewater in the trench is clear to a soapy, milky color, reported to be latex.

The trench forms a "Y" shaped system in the concrete floor. The east branch of the trench system was constructed entirely in bedrock. This branch was approximately 12" wide and 12" deep. Neither the east or west branches were covered. The east branch drained wastewater containing blue dye that drained from the Off Line Coater on the 1st floor.

The two (2) branches join into a single trench 14" deep and 18" wide that is covered by a metal grate. The floor of this final section of trench is also constructed on bedrock. The trenches on the 2nd floor reportedly drain to the wastewater tank located on the 3rd floor. The only area where the trench bottom does not appear solid is where all three (3) segments connect. A hole approximately 18" deep is present with loose rock in the bottom at the west end of the east branch. The east end of the west branch has holes 4 - 6" in depth in the bedrock. The remaining areas of the trench system appear solid.

Oil Staining

The former Oil Room is located in the northeast corner of this floor. Significant oil staining exists on the north limestone wall. A composite rock chip sample (RC-1) was collected from the northwest corner of the north wall, approximately 24" above the floor. RC-1 was analyzed for VOC+15, BN+15 and PCBs.

The limestone wall was thick bedded (12 - 24") having shaley partings between beds. No significant vertical fractures were noted in the outcrop along which oil was seeping. Most of the oil seeps were from shaley partings between more massive micritic limestone beds.

Oil stains were noted on Figure 6 of the Phase I report at the northwest corner of this floor. These stains were inspected and determined to be coatings/latex leaking from the storage room on the 1st floor.

REC - 3: 3rd Floor

Floor Trenches

Two (2) floor sumps were reported in the Phase I report as being associated with the wastewater equalization tank. Only one (1) sump could be located. This sump was northeast of the Equalization Tank and was covered by a metal grate 18" square. The sump funneled into a 4" drainage pipe that elbowed toward the southwest. The floor was sloped toward this sump so that wastewater dripping from the 2nd floor via various pipes could be drained to the 4th floor. The sump appeared solid. Other pits located in this room were all open to the 4th floor.

A floor trench is located to the southwest of the old coal-fired boiler south of the Electrical Room. The trench slopes from east to west and is constructed to allow an 8" diameter steel

storm water pipe to pass from the 2nd floor through the wall to the Black River. This trench is 18' long, 16" wide and approximately 10" deep. The trench is filled with paper pulp and dirt. The trench walls and floor appear to be constructed of a combination of limestone bedrock and concrete. The integrity of the trench floor could not be ascertained due to the trash in the trench.

Oil Staining

Significant oil stains and crusts are located on the limestone bedrock outcrop along the southeast wall of this floor behind the elevator shaft. The oil in this area was the thickest observed in the building. Tar-like crusts of oil had accumulated to 0.5" in thickness with seeping oil forming when the crust was removed. As with the 2nd floor, the oil was seeping through the wall along horizontal bedding planes in a zone approximately 12" wide. Individual limestone beds were 2 - 4" in thickness in this area separated by shaley, crumbly zones. A composite rock chip sample (RC-2) was collected from this area and analyzed for VOC+15, BN+15 and PCBs.

A second rock chip sample (RC-3) was collected from the north wall of the Above Ground Tank Storage Room at the northeast corner of this floor. This oil staining was reportedly from the 1992 No. 6 fuel oil release. Samples were collected from a constructed limestone block wall forming the north wall of this room. Oil staining in this room was minor compared to that present in the RC-2 sample area. Sample RC-3 was also analyzed for VOC+15, BN+15 and PCBs.

REC - 4: 4th Floor

The sump at the base of the elevator shaft was inspected. The shaft measured approximately 15' x 15' and was constructed of concrete. The area outside of the concrete base consisted of limestone bedrock with a wooden frame. Approximately 1 - 2" of brown to black wet silt possibly mixed with oil had accumulated on the base of the shaft. A sample of this material (ES-1) was collected for VOC+15, BN+15 and PCB analysis. The slab appeared to be intact. None of the oily silt was noticed outside of the concrete base area.

At least three (3) large floor sumps are located in the northwest corner of this floor. These sumps were where the water wheels were located that supplied power for the old paper mill that previously existed at the Site. The sumps were constructed entirely of concrete. Only the lower sump appeared to be constructed with a bedrock floor. The sumps appeared intact. No significant staining was observed in the sumps. Oil stains were located on the southeast wall of this floor, at the base of the stairs and adjacent to the north side of the elevator shaft. As with the oil stains on previous floors, the oil was seeping from along shaley partings in the limestone bedrock. No significant vertical fracturing was noticeable in the outcrop. The seep occurred approximately 12" above the foundation structure. A composite rock chip sample (RC-4) was collected and analyzed for VOC+15, BN+15 and PCB compounds. Oil staining was also evident on the bedrock outcrop south of the elevator shaft. Building structures in this area prohibited the collection of a sample.

The most significant oil staining observed on the 3rd and 4th floors were around the elevator shaft. The oily silt at the base of the elevator may be associated with oil leaking down the elevator shaft.

REC – 6: Boiler Room Sump

A sump or storm water catch basin is located in the concrete pad outside of the Boiler Room on the 1st floor. This sump measures 21" x 21" x 21" in depth, is constructed of concrete and is covered by a metal grate. There is a 6" diameter pipe at the bottom of the sump. The bottom of the sump was covered with a 1" mat of latex, pulp and dirt. The bottom of the sump was solid and the entire structure appeared to be intact.

6.0 ANALYTICAL RESULTS

Two (2) sets of guidance documents for site remediation have been issued by the NYSDEC. Each contains different soil remediation criteria. Stars Memo # 1, issued August 1992, contains petroleum-contaminated soil cleanup criteria and was intended to apply to petroleum spill sites. The STARS guidelines are recommended by the NYSDEC to be used primarily with petroleum containing UST investigations. On January 24, 1994, an NYSDEC Technical and Administrative Guidance Memorandum (TAGM) (HWR-94-4046) was issued by the Division of Hazardous Waste Remediation, which provides a basis and procedure to determine soil cleanup objectives for Federal Superfund, State Superfund, and responsible party lead sites. This 1994 memo, TAGM 4046, includes a much more extensive list of cleanup criteria than the Stars Memo # 1. ENVISION's Phase II report uses the cleanup objectives identified in TAGM 4046 for the assessment of the sampling data collected during the October 2000 Phase II activities.

TAGM 4046 lists generic soil cleanup objectives, which if met, will at a minimum eliminate significant threats to human health and/or the environment from detected contamination. The TAGM cleanup objectives are intended to be utilized as a starting point for remediation. If these objectives are met, then further investigation/remediation is not necessary. However, if the objectives are not attained, then site-specific cleanup objectives can be derived. A site's final soil cleanup objective can be determined by using the TAGM generic values as its basis and accounting for the following conditions: risk assessment, concentrations which are protective of water quality, background values, and method detection limits. According to the NYSDEC, site-specific cleanup levels should be developed through the Feasibility Study process (TAGM 4030).

The TAGM soil cleanup objectives are limited to the following maximum values:

- Total VOCs; less than or equal to 10 mg/Kg
- Total BNs; less than or equal to 500 mg/Kg
- Individual BNs; less than or equal to 50 mg/Kg
- Total Pesticides; less than or equal to 10 mg/Kg
- Heavy Metals; Eastern USA, New York State or site-specific soil background values

In addition, the TAGM 4046 generic soil cleanup objectives are based on a soil organic carbon content of 1%.

TAGM 4046 also identifies groundwater standards/criteria, which are derived from NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1 and NYCRR 6, Chapter X, Parts 700 – 706 (Water Quality Regulations). In instances where TAGM 4046 does not identify a groundwater standard/criteria, the applicable criteria in ENVISION's data tables is derived from the NYSDEC Water Quality Regulations for freshwater groundwater quality (Class GA) criteria.

6.1 Soil Data

Table 1 presents a summary of the sampling and analysis data for each sample. Information contained on this table includes sample identifications, sample depths, sampling dates, analytical methodology and parameters analyzed for. Table 2 is a summary of VOC+15 soil and groundwater analytical results; Table 3 is a summary of BN+15 soil and groundwater analytical results; Table 4 is a summary of soil and groundwater PPM results; and Table 5 is a summary of PCB soil analytical results. Tables 2 and 3 only lists the analytical parameters that were reported above the analytical method detection levels. All other parameters analyzed for were reported as non-detect (below method detection level) for the VOC+15 and BN+15 analyses. Tables 2 – 5 also lists the respective TAGM generic soil cleanup objectives (Recommended Soil Cleanup Objectives and Soil Cleanup Objectives to Protect Groundwater Quality); and the NYSDEC Groundwater Quality Standards/Criteria.

The following reviews the results of the noted analyses:

As shown on Table 2, although VOCs were detected in the soil samples collected onsite, there were no VOC exceedances of the referenced generic soil cleanup objectives.

Table 3 summarizes the results of the BN+15 analysis. As can be seen from this table, most of the exceedances of the TAGM generic soil cleanup objectives involved polyaromatic hydrocarbons (PAHs) and TICs, which were primarily associated with the historic fill material containing coal, coal ash, cinders, slag, etc.; and with the oil rock chip samples.

Although BN compounds were detected in sample EB-1 (0.5-1'), all results were reported below the respective TAGM cleanup objectives.

Sample EB-2 (Catch Basin) contained benzo(a)pyrene at 160 ug/Kg, exceeding the TAGM objective of 61 ug/Kg. This sample also reported 137,200 ug/Kg of BN TICs.

Sample EB-3 (16-16.5') reported benzo(a)anthracene at 3,200 ug/Kg, chrysene at 3,700 ug/Kg, benzo(b)fluoranthene at 4,000 ug/Kg, benzo(k)fluoranthene at 1,700 ug/Kg, benzo(a)pyrene at 2,800 ug/Kg and dibenz(a,h)anthracene at 260 ug/Kg; all above the applicable TAGM cleanup objectives of 224 ug/Kg, 400 ug/Kg, 1,100 ug/Kg, 1,100 ug/Kg, 61 ug/Kg and 14 ug/Kg, respectively. This sample also reported 48,500 ug/Kg of BN TICs, which were primarily comprised of PAHs and unknown alkanes.

Sample EB-4 (1.5-2.0') reported benzo(a)anthracene at 1,300 ug/Kg, chrysene at 1,300 ug/Kg, benzo(b)fluoranthene at 2,000 ug/Kg, benzo(a)pyrene at 1,300 ug/Kg and dibenz(a,h)anthracene at 81 ug/Kg; all above the applicable TAGM cleanup objectives of 224 ug/Kg, 400 ug/Kg, 1,100 ug/Kg, 61 ug/Kg and 14 ug/Kg, respectively. This sample also reported 7,130 ug/Kg of BN TICs, which were primarily comprised of PAHs and unknown alkanes.

Sample EB-4 (16-16.5') contained benzo(a)pyrene at 110 ug/Kg, exceeding the TAGM objective of 61 ug/Kg. This sample also reported 6,940 ug/Kg of BN TICs.

Sample EB-5 (1.2-1.7') contained benzo(a)anthracene at 240 ug/Kg and benzo(a)pyrene at 180 ug/Kg, exceeding the TAGM objectives of 224 ug/Kg and 61 ug/Kg, respectively. This sample did not report any BN TICs.

Sample EB-6 (0-0.5') did not report any detected BN target compounds. However, due to the reported concentration of 259,400 ug/Kg BN TICs, many of the BN target compound method detection levels exceeded the respective TAGM cleanup objectives. The BN TICs were all reported as unknowns.

Sample TPE-1 (3-3.5') contained benzo(a)anthracene at 310 ug/Kg and benzo(a)pyrene at 260 ug/Kg, exceeding the TAGM objectives of 224 ug/Kg and 61 ug/Kg, respectively. This sample reported 2,420 ug/Kg of BN TICs, which were primarily identified as unknowns.

Samples TPE-2 (4-4.5') and TPE-3 (1.5-2') did not report any BN concentrations in exceedance of the respective TAGM objectives.

Rock sample RC-1 contained chrysene at 2,000 ug/Kg and benzo(a)pyrene at 310 ug/Kg, exceeding the TAGM objectives of 400 ug/Kg and 61 ug/Kg, respectively. This sample reported 209,600 ug/Kg of BN TICs, which were primarily identified as unknown alkanes.

Rock sample RC-2 did not report any detected BN target compounds. However, due to the reported concentration of 5,540,000 ug/Kg BN TICs, many of the BN target compound method detection levels exceeded the respective TAGM cleanup objectives. The BN TICs were all reported as unknowns.

Rock sample RC-3 reported benzo(a)anthracene at 1,800 ug/Kg, benzo(b)fluoranthene at 1,300 ug/Kg, and benzo(a)pyrene at 1,500 ug/Kg; all above the applicable TAGM cleanup objectives of 224 ug/Kg, 1,100 ug/Kg, and 61 ug/Kg, respectively. This sample also reported 188,000 ug/Kg of BN TICs, which were primarily comprised of PAHs and unknown alkanes.

Rock sample RC-4 reported benzo(a)pyrene at 5,000 ug/Kg, exceeding its respective TAGM cleanup objective of 61 ug/Kg. However, due to the reported concentration of 510,000 ug/Kg BN TICs, many of the BN target compound method detection levels exceeded the respective TAGM cleanup objectives. The BN TICs were all reported as unknowns.

Sample ES-1 reported benzo(a)pyrene at 230 ug/Kg, exceeding its respective TAGM cleanup objective of 61 ug/Kg. This sample reported 60,400 ug/Kg of BN TICs, which were primarily identified as unknowns.

Table 4 lists the results of the thirteen (13) PPMs. As can be seen from this table, seven (7) of the PPMs reported concentrations exceeding the TAGM Recommended Soil Cleanup Objectives. These metals included arsenic, beryllium, chromium, copper, mercury, nickel and

zinc. However, there is a stipulation within the TAGM objectives that site background concentrations for all of these metals, with the exclusion of mercury, can be utilized as the cleanup objective instead of the published generic objective. Mercury has a generic cleanup objective of 0.1 mg/Kg. The majority of these metals appear to be associated with the coal/coal ash and construction debris fill material found onsite in the filled in parking area on the north side of the Site. Sample EB-1 (0.5-1.0') reported concentrations of arsenic (9.9 mg/Kg), beryllium (0.59 mg/Kg), and nickel (41.1 mg/Kg), which exceeded the published TAGM objectives of 7.5 mg/Kg for arsenic; 0.16 mg/Kg for beryllium; and 13 mg/Kg for nickel. Sample EB-2 (Catch Basin) reported concentrations of beryllium (0.20 mg/Kg), chromium (14.0 mg/Kg) and zinc (259 mg/Kg), which exceeded the published TAGM objectives of 0.16 mg/Kg for beryllium; 10 mg/Kg for chromium and 20 mg/Kg for zinc. Sample EB-3 (16-16.5') reported concentrations of beryllium (0.29 mg/Kg), copper (35.5 mg/Kg), nickel (13.7 mg/Kg) and zinc (170 mg/Kg), which exceeded the published TAGM objectives of 0.16 mg/Kg for beryllium; 25 mg/Kg for copper, 13 mg/Kg for nickel and 20 mg/Kg for zinc. Sample EB-4 (1.5-2') reported concentrations of beryllium (0.21 mg/Kg), and zinc (38.5 mg/Kg), which exceeded the published TAGM objectives of 0.16 mg/Kg for beryllium; and 20 mg/Kg for zinc. Sample EB-4 (16-16.5') reported concentrations of beryllium (0.24 mg/Kg), and zinc (61.9 mg/Kg), which exceeded the published TAGM objectives of 0.16 mg/Kg for beryllium; and 20 mg/Kg for zinc. Sample TPE-3 (1.5-2') reported concentrations of beryllium (0.39 mg/Kg), which exceeded the published TAGM objectives of 0.16 mg/Kg for beryllium. As mentioned, a stipulation within the TAGM objectives states that the cleanup objectives for these metals can also be Site Background. Samples EB-3 (16-16.5') and EB-4 (16-16.5') reported exceedances of the mercury cleanup objective (0.34 mg/Kg and 0.14 mg/Kg, respectively).

As can be seen from Table 5, no PCBs were detected in soil samples EB-3 (16-16.5'), EB-4 (1.5-2'), EB-4 (16-16.5'), TPE-3 (1.5-2.0'); rock chip samples RC-2 (0-0.5'), RC-3 (0-0.5'), RC-4 (0-0.5'); and sediment sample ES-1 (0-0.5'). Rock chip sample RC-1 reported 0.420 mg/Kg of Arochlor-1254, which is below the TAGM cleanup objective for PCBs (1.0 mg/Kg).

Field blanks were collected each sampling day and analyzed for VOC+15, BN+15, PPM and PCBs for QA/QC purposes. All parameters analyzed for were reported as none detected, except for methylene chloride. The October 26 field blank reported a level of 8.6 ug/L. This low level of methylene chloride is attributable to laboratory contamination.

6.2 Groundwater Data

Tables 2 - 4 also present the results of the analytical parameters detected in the groundwater samples for MW-1 and PZ-2.

As shown on Table 2, no VOC+15 compounds were detected in the groundwater samples obtained from MW-1 and PZ-2.

No BN compounds were detected above the method detection limit in the groundwater samples from MW-1 and PZ-2. However, the analytical method detection limit was reported higher than the water quality standards for benzidine, 3,3'-dichlorobenzidine, benzo(a)anthracene,

chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, and indeno(1,2,3-cd)pyrene. In addition, no BN TICs were reported for either groundwater sample. Groundwater was not analyzed for PCBs.

As can be seen from Table 4, the results of PPM analysis indicates that only lead exceeded the water quality standards in the groundwater sample collected from PZ-2. PZ-2 reported a concentration of 75.2 ug/L of lead, which exceeds the NYSDEC Water Quality Standard of 25 ug/L. MW-1 did not report any exceedances. Please note that the analytical method detection limit for antimony in water (4.5 ug/L) was reported higher than the NYSDEC Water Quality Standard of 3.0 ug/L. However, since antimony was not detected in any of the soil and/or groundwater samples onsite, this should not be considered an issue.

Field and trip blanks were also collected and analyzed for VOC+15, BN+15 and PPM for QA/QC purposes. All compounds were reported as none detected in the blank samples. A complete copy of the laboratory analytical reports can be found in Appendix 2. Appendix 3 contains a copy of the referenced NYSDEC remediation guidance levels for soil and groundwater.

7.0 CONCLUSIONS / RECOMMENDATIONS

Based upon the Phase II activities and the results of the soil and groundwater samples, ENVISION recommends the following:

Main Plant Interior

REC - 1: 1st Floor

An inactive floor trench drain is located in the Raw Material Storage Area north of the paper machine. The drain previously collected liquids and drained to the wastewater pre-treatment system on the 2nd floor. The trench was full of paper pulp and dirt and could not be thoroughly inspected. The base of the trench was solid where inspected. There was no bedrock exposed in the trench. Two (2) 3" dia. drain pipes were located in the base of the drain that discharged to the open air above the 2nd floor. The paper pulp and dirt should be removed from the trench and the two (2) drain pipes to the 2nd floor should be sealed. If any accidental spillage of raw materials occurs on the 1st floor, sealing these drain pipes will prevent the spilled material from draining to the 2nd floor.

An active floor trench drain was located on the north side of the Off Line Coater, near the Coater Kitchen. The trench is concrete lined throughout its length and appeared to be structurally sound. No further action is recommended regarding this floor trench.

REC - 2: 2nd Floor

The "Y"-shaped trench drain system on this floor is used to drain fluids from the paper machine to the 3rd floor. The sides of the trench are constructed of concrete but the bottom of the trench is bare limestone bedrock. The concrete walls of the trench appear solid but the floor of the trench is broken in the area where the three (3) branches of the system converge. A hole approximately 18" deep is present with loose rock in the bottom at the west end of the east branch of the trench. The east end of the west branch has holes 4 - 6" in depth in the bedrock. The remaining areas of the trench system appear solid. ENVISION recommends that the trench be drained, cleaned and the entire trench be lined with concrete.

The former Oil Room is located in the northeast corner of this floor. Significant oil staining exists on the north limestone wall. A composite rock chip sample (RC-1) was collected from the northwest corner of the north wall, approximately 24" above the floor. RC-1 was analyzed for VOC+15, BN+15 and PCBs. No VOC compounds were detected above the TAGM generic soil cleanup objectives. RC-1 reported 0.420 mg/Kg of Arochlor-1254, which is below the TAGM cleanup objective for PCBs (1.0 mg/Kg). RC-1 only reported the PAHs chrysene at 2,000 ug/Kg and benzo(a)pyrene at 310 ug/Kg, exceeding the TAGM objectives of 400 ug/Kg and 61 ug/Kg, respectively. This sample also reported 209,600 ug/Kg of BN TICs, which were primarily identified as unknown alkanes. These BN compounds are typically found in petroleum-based material (coal, coal ash, oil, asphalt, etc.).

The limestone wall was thick bedded (12 - 24") having shaley partings between beds. No significant vertical fractures were noted in the outcrop along which oil was seeping. Most of the oil seeps were from shaley partings between more massive micritic limestone beds. Since this rock wall is part of the structure of the building, it cannot be removed. It is recommended that the limestone wall be pressure washed in an attempt to remove the oil staining. After cleaning (if possible), the wall should be sealed with an epoxy paint or similar material. All generated waste should be properly disposed of.

REC - 3: 3rd Floor

Two (2) floor sumps were reported in the Phase I report as being associated with the wastewater equalization tank. Only one (1) sump could be located. This sump was northeast of the Equalization Tank and was covered by a metal grate 18" square. The sump funneled into a 4" drainage pipe that elbowed toward the southwest. The floor was sloped toward this sump so that wastewater dripping from the 2nd floor via various pipes could be drained to the 4th floor. The sump appeared sound. No further action is recommended regarding this floor sump.

A floor trench is located to the southwest of the old coal-fired boiler south of the Electrical Room. The trench slopes from east to west and is constructed to allow an 8" diameter steel storm water pipe to pass from the 2nd floor through the wall to the Black River. The trench was filled with paper pulp and dirt. The trench walls and floor appear to be constructed of a combination of limestone bedrock and concrete. According to facility personnel, this structure is not intended to be a trench drain. It is a depressed area in the floor that allows the storm water pipe to pass through the floor and wall of the building. Based upon the conditions of this structure and since it was filled with material, it appears that liquids do not pass through the trench. Since its function is to house the steel storm water pipe and no liquids come in contact with the trench structure itself, no further action is recommended regarding the trench.

Significant oil stains and crusts are located on the limestone bedrock outcrop along the southeast wall of this floor behind the elevator shaft. As previously mentioned, according to facility personnel, the oil staining is a historical issue caused by leaking gear boxes associated with the water wheels formerly used onsite decades ago. The oil in this area was the thickest observed in the building. Tar-like crusts of oil had accumulated to 0.5" in thickness with seeping oil forming when the crust was removed. As with the 2nd floor, the oil was seeping through the wall along horizontal bedding planes in a zone approximately 12" wide. Individual limestone beds were 2 - 4" in thickness in this area separated by shaley, crumbly zones. A composite rock chip sample (RC-2) was collected from this area and analyzed for VOC+15, BN+15 and PCBs. No PCBs were detected in the sample. No VOC compounds were detected above the TAGM generic soil cleanup objectives. RC-2 did not report any detected BN target compounds. However, due to the reported concentration of 5,540,000 ug/Kg BN TICs, many of the BN target compound method detection levels exceeded the respective TAGM cleanup objectives. The BN TICs were all reported as unknowns. Since this rock wall is part of the structure of the building, it cannot be removed. It is recommended that the tar-like crust on the wall be scraped off and the wall pressure washed to remove as much of the staining as possible. After cleaning the wall

(if possible), the wall should be sealed with an epoxy paint or similar material. All generated waste should be properly disposed of.

A second rock chip sample (RC-3) was collected from the north wall of the Above Ground Tank Storage Room at the northeast corner of this floor. This oil staining was reportedly from the 1992 No. 6 fuel oil release. Samples were collected from a constructed limestone block wall forming the north wall of this room. Oil staining in this room was minor. Sample RC-3 was also analyzed for VOC+15, BN+15 and PCBs. No PCBs were detected in the sample. No VOC compounds were detected above the TAGM generic soil cleanup objectives. RC-3 only reported benzo(a)anthracene at 1,800 ug/Kg, benzo(b)fluoranthene at 1,300 ug/Kg, and benzo(a)pyrene at 1,500 ug/Kg; all above the applicable TAGM cleanup objectives of 224 ug/Kg, 1,100 ug/Kg, and 61 ug/Kg, respectively. This sample also reported 188,000 ug/Kg of BN TICs, which were primarily comprised of PAHs and unknown alkanes. These BN compounds are typically found in petroleum-based material (coal, coal ash, oil, asphalt, etc.). This area should be pressure washed to remove the oil staining (if possible). After cleaning, the walls should be sealed with an epoxy paint or similar material. All generated wastes should be properly disposed of.

REC - 4: 4th Floor

At least three (3) large floor sumps are located in the northwest corner of this floor. The sumps were constructed entirely of concrete. Only the lower sump appeared to be constructed with a bedrock floor. The sumps appeared intact. No significant staining was observed in the sumps. The sump floor constructed of bedrock should be sealed or coated.

The sump at the base of the elevator shaft was inspected and found to be constructed of concrete that was intact and free of significant cracks. Approximately 1 - 2" of brown to black wet silt possibly mixed with oil had accumulated on the base of the shaft. A sample of this material (ES-1) was collected for VOC+15, BN+15 and PCB analysis. The slab appeared to be intact. None of the oily silt was noticed outside of the concrete base area. No PCBs were detected in the sample. No VOC compounds were detected above the TAGM generic soil cleanup objectives. ES-1 only reported benzo(a)pyrene at 230 ug/Kg, exceeding its respective TAGM cleanup objective of 61 ug/Kg. This sample reported 60,400 ug/Kg of BN TICs, which were primarily identified as unknowns. These BN compounds are typically found in petroleum-based material (coal, coal ash, oil, asphalt, etc.). It is recommended that the silt be removed from the bottom of the elevator shaft and properly disposed of.

Oil stains were located on the southeast wall of this floor, at the base of the stairs and adjacent to the north side of the elevator shaft. As with the oil stains on previous floors, the oil was seeping from along shaley partings in the limestone bedrock. No significant vertical fracturing was noticeable in the outcrop. The seep occurred approximately 12" above the foundation structure. A composite rock chip sample (RC-4) was collected and analyzed for VOC+15, BN+15 and PCB compounds. No PCBs were detected in the sample. No VOC compounds were detected above the TAGM generic soil cleanup objectives. RC-4 only reported benzo(a)pyrene at 5,000 ug/Kg, exceeding its respective TAGM cleanup objective of 61 ug/Kg.

However, due to the reported concentration of 510,000 ug/Kg BN TICs, many of the BN target compound method detection levels exceeded the respective TAGM cleanup objectives. The BN TICs were all reported as unknowns. These BN compounds are typically found in petroleum-based material (coal, coal ash, oil, asphalt, etc.). Since this rock wall is part of the structure of the building, it cannot be removed. It is recommended that the wall be pressure washed to remove as much of the staining as possible. After cleaning the wall (if possible), the wall should be sealed with an epoxy paint or similar material. All generated waste should be properly disposed of.

Main Plant Exterior

REC - 5: Dumpster Area

Metal 40 cu.yd. rolloff dumpsters are staged outside of the northeast corner of the Site. Latex and dye-coated paper scrap and scrap metal are disposed of in these dumpsters. A storm water catch basin was previously reported as being located next to these dumpsters. That catch basin had been relocated to approximately 25' north-northeast of the dumpster.

Soil boring EB-1 was conducted in a crack in the cement pad on which the dumpsters were staged. A soil sample was collected from the 0.5 - 1.0' interval occurring beneath the concrete. This sample was analyzed for VOC+15, BN+15 and for PPM. No VOC or BN compounds were detected above the respective TAGM cleanup objective. Concentrations of arsenic, beryllium and nickel were reported above the respective published TAGM objectives. However, there is a stipulation within the TAGM memo that site background conditions for all of these metals can be utilized as the cleanup objective instead of the published generic objective.

EB-1 was sampled continuously to 16' below grade (b.g.). Fill material consisting of primarily coal ash, cinders and crushed concrete was encountered. Field screening did not detect any significant organic vapors. The noted metals are most likely derived from the coal ash in the historic fill, which is ubiquitous. See ENVISION's comments pertaining to the fill issue at the end of this section.

Sediment sample EB-2 (Catch Basin) was collected from the inside bottom of the storm water catch basin and analyzed for VOC+15, BN+15 and PPM. No PID readings were detected in the sediment sample. No VOC compounds were detected above the respective TAGM cleanup objective. Sample EB-2 (Catch Basin) contained benzo(a)pyrene at 160 ug/Kg, exceeding the TAGM objective of 61 ug/Kg. This sample also reported 137,200 ug/Kg of BN TICs. Concentrations of beryllium, chromium and zinc were reported above the respective published TAGM objectives. These compounds were more than likely detected in the catch basin sample as a result of the catch basin capturing sheet water flow over asphalt pavement from Bridge Street and other offsite asphalt paved areas. No further action is recommended.

REC - 6: Boiler Room Sump

The sump in the driveway outside of the Boiler Room was inspected for integrity and found to be intact. The sediment buildup in the sump should be cleaned out. Since this sump discharges to the Site storm water system, which directs the storm water to the Black River, spill blockers should be used near the sump should a surface release of material occur.

REC - 7: Historic Fill

The parking lot north of the Site is constructed on demolition debris and fill material used to raise the elevation of the area. This area is not paved and is used for employee parking. As discussed in Section 2.0, this area was previously approximately 25' lower in elevation and was used for coal storage and as a planing mill. Demolition debris, including cement boulders, had been filled into the area to raise it to its present elevation. The fill material consists of construction debris from the demolished Court Street Bridge. The State of New York Department of Transportation, Watertown, NY, authorized the use of the construction debris as fill material. A DOT letter dated May 13, 1993 states that the fill material contains no contaminated material (hazardous waste, industrial waste, or petroleum products through a spill).

Two (2) soil borings (EB-3 and EB-4) and one (1) test pit (TPE-3) were advanced through the fill using a Geoprobe and excavator. Soil samples were collected based upon field screening results or as discussed previously. Soil samples were analyzed for VOC+15, BN+15, PPM and PCBs.

Boring EB-3 was conducted near the east center part of the parking lot. Continuous soil samples were collected to refusal on limestone bedrock at 23.8' b.g. Materials encountered consisted mainly of ash, coal dust, cinders, wood and concrete chunks. A soil sample was collected from the 16 - 16.5' interval for analyses. This sample appeared to be from the 6" interval above the water table and also was the interval having the highest headspace reading (1.9 units). No VOC compounds were detected above the respective TAGM cleanup objective. No PCBs were detected. EB-3 (16-16.5') reported benzo(a)anthracene at 3,200 ug/Kg, chrysene at 3,700 ug/Kg, benzo(b)fluoranthene at 4,000 ug/Kg, benzo(k)fluoranthene at 1,700 ug/Kg, benzo(a)pyrene at 2,800 ug/Kg and dibenz(a,h)anthracene at 260 ug/Kg; all above the applicable TAGM cleanup objectives of 224 ug/Kg, 400 ug/Kg, 1,100 ug/Kg, 1,100 ug/Kg, 61 ug/Kg and 14 ug/Kg, respectively. This sample also reported 48,500 ug/Kg of BN TICs, which were primarily comprised of PAHs and unknown alkanes. Concentrations of beryllium, copper, nickel, mercury and zinc were reported above the respective published TAGM objectives.

A temporary piezometer (PZ-1) was installed in EB-3 and allowed to stand overnight but was dry the next morning. As a result, no groundwater sample was collected from this boring. The piezometer material was removed and the borehole was backfilled.

Boring EB-4 was located near MW-1 on the south side of the historic fill area adjacent to the Site. This is also in the vicinity of the previous test pit TP-1, excavated after the 1992 No. 6 fuel

oil leak. The historic fill overlying the previous TP-1 area was replaced after the fuel oil release cleanup activities took place in 1992-93 (see ENVISION's Phase I report, Appendix 30 for previous No. 6 fuel oil spill investigation reports). Boring EB-4 was intended to characterize the historic fill as well as the soil conditions in the vicinity of the former oil release. EB-4 encountered a sandy fill containing crushed limestone, concrete, bricks and clayey silts. A sample was collected at 1.5 - 2.0' b.g. due to an elevated headspace reading of 3.0 units. Soil samples were collected continuously to refusal on limestone bedrock at 17.5' b.g. No significant groundwater was encountered in the borehole. In order to investigate soil conditions at the base of the fill in the vicinity of the previous oil release, a sample was also collected from 16 - 16.5' b.g. Both collected samples were analyzed for VOC+15, BN+15, PPM and PCBs. No VOC compounds were detected above the respective TAGM cleanup objectives and no PCBs were detected in either sample. EB-4 (1.5-2.0') reported benzo(a)anthracene at 1,300 ug/Kg, chrysene at 1,300 ug/Kg, benzo(b)fluoranthene at 2,000 ug/Kg, benzo(a)pyrene at 1,300 ug/Kg and dibenz(a,h)anthracene at 81 ug/Kg; all above the applicable TAGM cleanup objectives of 224 ug/Kg, 400 ug/Kg, 1,100 ug/Kg, 61 ug/Kg and 14 ug/Kg, respectively. This sample also reported 7,130 ug/Kg of BN TICs, which were primarily comprised of PAHs and unknown alkanes. Concentrations of beryllium and zinc were reported above the respective published TAGM objectives. EB-4 (16-16.5') contained benzo(a)pyrene at 110 ug/Kg, exceeding the TAGM objective of 61 ug/Kg. This sample also reported 6,940 ug/Kg of BN TICs. Concentrations of beryllium, mercury and zinc were reported above the respective published TAGM objectives.

The demolition debris fill material used in this area was reported by plant personnel to contain large boulders of concrete near the western edge of the parking lot. A large backhoe was brought onsite and test pit TPE-3 was excavated near the northwest corner of the parking lot to determine upgradient background conditions. The pit was excavated to 12' below grade, at which point large chunks of concrete were encountered which prohibited deeper excavation. The historic fill material encountered was primarily a sandy fill having mixed concrete chunks, reinforcement bar, sheet metal, steel wire and silty clay material. No coal ash was evident in this area. A very moist light grey silty clay was encountered from 1.5 - 3.0' b.g. A sample was collected from this interval and analyzed for VOC+15, BN+15, PPM and PCBs. No VOC or BN compounds were detected above the respective TAGM cleanup objective and no PCBs were detected in either sample. TPE-3 (1.5-2') reported concentrations of beryllium (0.39 mg/Kg), which exceeded the published TAGM objective of 0.16 mg/Kg.

As mentioned, a stipulation within the TAGM memo states that the cleanup objectives for metals, excluding mercury, can also be Site Background. The noted PAH compounds and metals are most likely derived from the historic fill onsite. See ENVISION's comments pertaining to the fill issue at the end of this section.

REC - 8: Old Water Flume

A storm water drainage pipe is bedded in an old water flume on the northwest side of the Plant. The flume may have received oil from the 1992 fuel oil spill that occurred between the Plant and the flume. The bedding material in the flume and around the storm water pipe was inspected by

excavating a trench using a backhoe and collecting soil samples. There was no indication that oil had migrated along the pipe from the spill area. Two (2) soil samples (TPE-1 and TPE-2) collected from beneath the pipe were analyzed for VOC+15 and BN+15. No VOC compounds were detected above the respective TAGM cleanup objective in either sample. Sample TPE-2 (4-4.5') did not report any BN concentrations in exceedance of the respective TAGM objectives. Sample TPE-1 (3-3.5') contained benzo(a)anthracene at 310 ug/Kg and benzo(a)pyrene at 260 ug/Kg, exceeding the generic TAGM objectives of 224 ug/Kg and 61 ug/Kg, respectively. This sample reported 2,420 ug/Kg of BN TICs, which were primarily identified as unknowns. These PAH compounds are more than likely associated with the historic fill used onsite. See ENVISION's comments pertaining to the fill issue at the end of this section.

REC - 9: Previous Fuel Oil Spill Area

A release from a No. 6 fuel oil pipe occurred on the north side of the Site in 1992. During 1993, soils were excavated in this area and three (3) test pits (TP-1 – TP-3) were excavated. On October 25, 2000, boring EB-4 was completed and soil samples were collected from 1.5 – 2.0' and 16 - 16.5' in the vicinity of previous test pit TP-1 to confirm that removal of the impacted soils was completed. Bedrock was located 17.5' below grade in this area. The sample was analyzed for VOC+15, BN+15, PPM and PCBs. Please note that this boring also addressed REC – 7: Historic Fill. The two (2) test pits (TPE-1 and TPE-2) described above (REC – 8) were also sampled to confirm the findings of the 1992 oil release investigation.

A monitoring well was also installed in 1993 in the release area. This well (MW-1; 75' deep) was sampled and analyzed for VOC+15, BN+15 and PPM. No exceedances above the respective water quality criteria were detected in this groundwater sample.

Based upon the results of the sampling (see REC – 7 and REC – 8), it appears that the 1992 fuel oil release was appropriately addressed. No visual or olfactory evidence of oil was noted in TPE-1 and TPE-2. Overall, the PAH compounds and metals reported to exceed the respective generic TAGM objectives are most likely derived from the coal ash in the historic fill, which is ubiquitous. See ENVISION's comments pertaining to the fill issue at the end of this section.

REC - 10: Wastewater Pipeline

An abovegrade wastewater pipeline extends from the Site to the Village of Brownville POTW, which is located west of the Site. The pipeline contains a cleanout with a manhole access. This manhole has overflowed in the past with process wastewater from the Site. The pavement below the cleanout was inspected for integrity. The concrete pavement was found to be cracked and deteriorated. Boring EB-5 was installed approximately 10' southwest of the manhole and a soil sample was collected from 1.2 - 1.7' below grade in a sandy ash material and analyzed for VOC+15 and BN+15. No VOC compounds were detected above the respective TAGM cleanup objective. EB-5 (1.2-1.7') contained benzo(a)anthracene at 240 ug/Kg and benzo(a)pyrene at 180 ug/Kg, exceeding the TAGM objectives of 224 ug/Kg and 61 ug/Kg, respectively. This sample did not report any BN TICs. These PAH compounds are more than likely associated

with the historic fill used onsite. See ENVISION's comments pertaining to the fill issue at the end of this section.

Soil samples were collected continuously to 16' b.g. from this boring. Groundwater was encountered approximately 7.8' b.g. Fill material, consisting of ash, sand, crushed concrete and rock, was sampled continuously to a depth of 8' b.g., after which a sandy silt alluvium was encountered. The water table was located close to this contact. No PID readings were detected in the soil column. A temporary piezometer (PZ-2) was installed in the borehole. A groundwater sample was collected and analyzed for VOC+15, BN+15 and PPM. No VOC or BN compounds were detected in the groundwater sample from PZ-2. PZ-2 reported a concentration of 75.2 ug/L of lead, which exceeds the NYSDEC Water Quality Standard of 25 ug/L. A true monitoring well should be installed at this location and sampled for lead (total and dissolved) to confirm these findings.

REC - 11: Warehouse Exterior

A floor drain previously existed in the Warehouse located east of Bridge Street. This drain discharged into Philomel Creek on the east side of the Warehouse. A 6" diameter steel pipe was located 70' north of the southeast corner of the building. This pipe was located 30" below the top of the foundation wall and was filled with concrete. A sample was collected from the loamy silt sediment located above a rusted metal plate sitting on bedrock immediately below the outfall. This sample (EB-6) was analyzed for VOC+15 and BN+15. No VOC compounds were detected above the respective TAGM cleanup objective. EB-6 did not report any detected BN target compounds. However, due to the reported concentration of 259,400 ug/Kg of BN TICs, many of the BN target compound method detection levels exceeded the respective TAGM cleanup objectives. The BN TICs were all reported as unknowns. Since this area of the Site receives surface water flow from offsite, an upgradient soil sample from within the Philomel Creek should be collected and analyzed for the same parameters in order to determine if the concentration of BN TICs is coming from offsite. In addition, upon analysis of the sample, the laboratory should attempt identification of the TICs in order to determine if any of the individual compounds exceed the respective TAGM objective.

BN and PPM TAGM Objective Exceedances

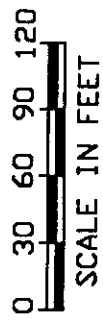
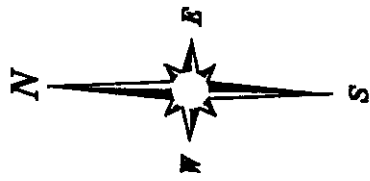
The noted PAH BN compounds and heavy metals, which are reported to exceed the respective generic TAGM cleanup objectives are believed to be associated with the historic fill (coal, coal ash, cinders, etc.) found across the Site. As a result, it is ENVISION's opinion that these concentrations should be considered as background conditions found onsite. According to the NYSDEC, a site's final soil cleanup objective can be determined by using the TAGM generic values as its basis and accounting for the following conditions: risk assessment, concentrations which are protective of water quality, background values, and method detection limits. Site-specific cleanup levels should be developed through the Feasibility Study process (TAGM 4030). Through the development of site-specific cleanup levels, based on the presence of the historic fill onsite, remediation of these RECs may not be required.

As a result, ENVISION recommends that the Phase II results be reported to the NYSDEC so that an NYSDEC-approved sampling plan can be developed, which will evaluate the distribution of the contaminants in the fill and enable site-specific cleanup objectives for metals and PAHs to be developed. This sampling program may also need to include a risk assessment.

ENVISION
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FIGURES

VILLAGE OF BROWNVILLE



MAIN STREET

TPE-3

FILL SLOPE

PARKING AREA

VILLAGE OF BROWNVILLE

EB-5
PZ-2

TPE-1

TPE-2

MW-1

EB-4

EB-3
PZ-1

EB-2

EB-1

MAIN FACILITY

WATER TOWER

WAREHOUSE

EB-6

BLACK RIVER

BLACK RIVER

BRIDGE STREET

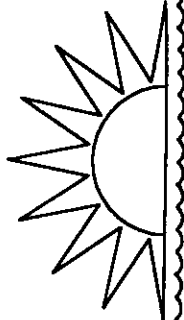
SITE PLAN

SOIL BORING, TEST PIT, AND GROUND-WATER WELL LOCATION MAP

⊕ EB-1 = SOIL SAMPLE LOCATION

□ TPE-1 = TEST PIT LOCATION

⊕ PZ-1 & MW-1 = PIEZOMETER & MONITORING WELL LOCATION



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BRIDGE STREET
BROWNVILLE, NY

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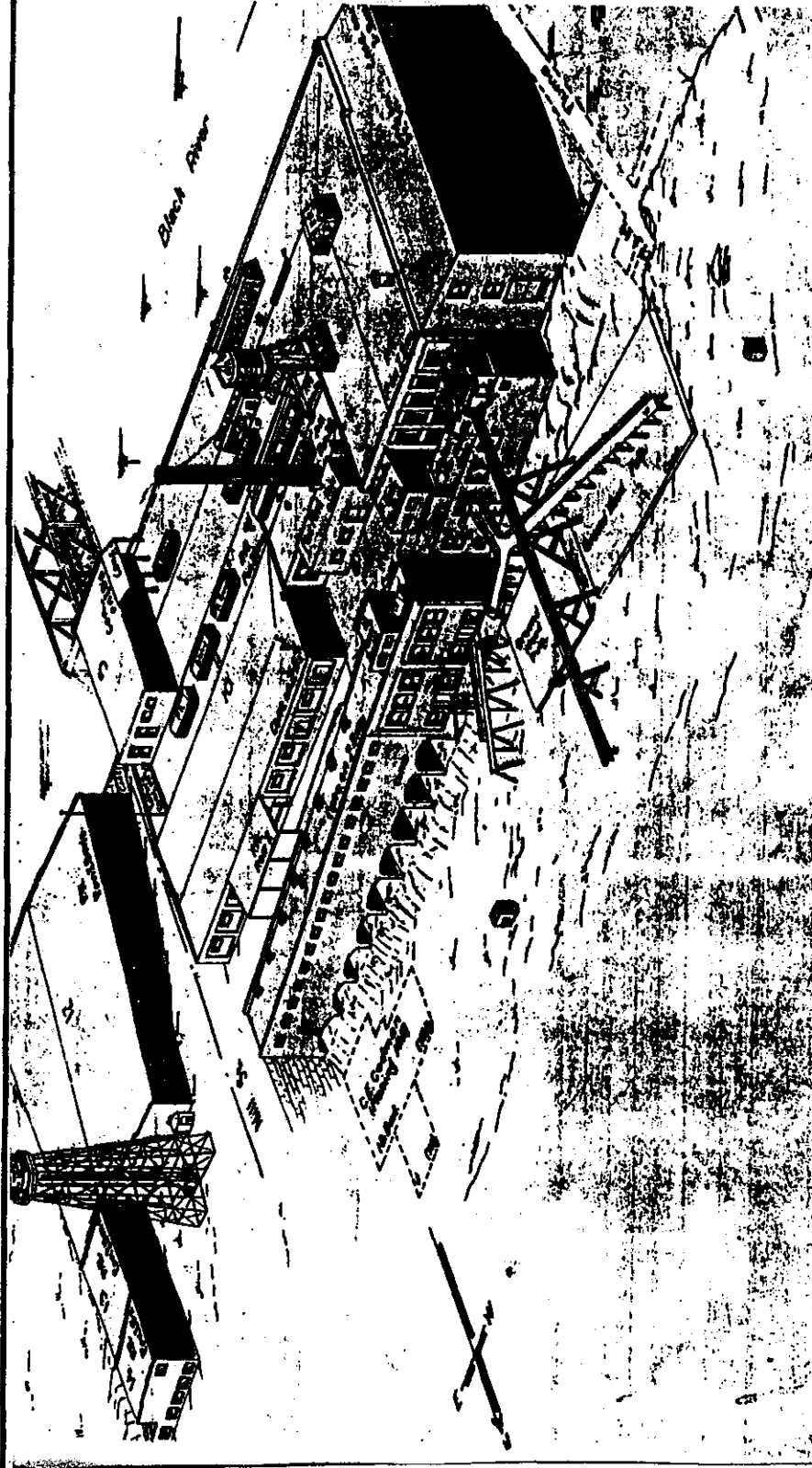
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Scale: As Shown

Drawing No.

FIGURE 1



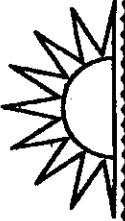
BROWNVILLE PAPER CO. Brownville, N. Y.

Scale 1 in. = 50 ft.

Surveyed June 10, 1926

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1926 FIRE INSURANCE MAP

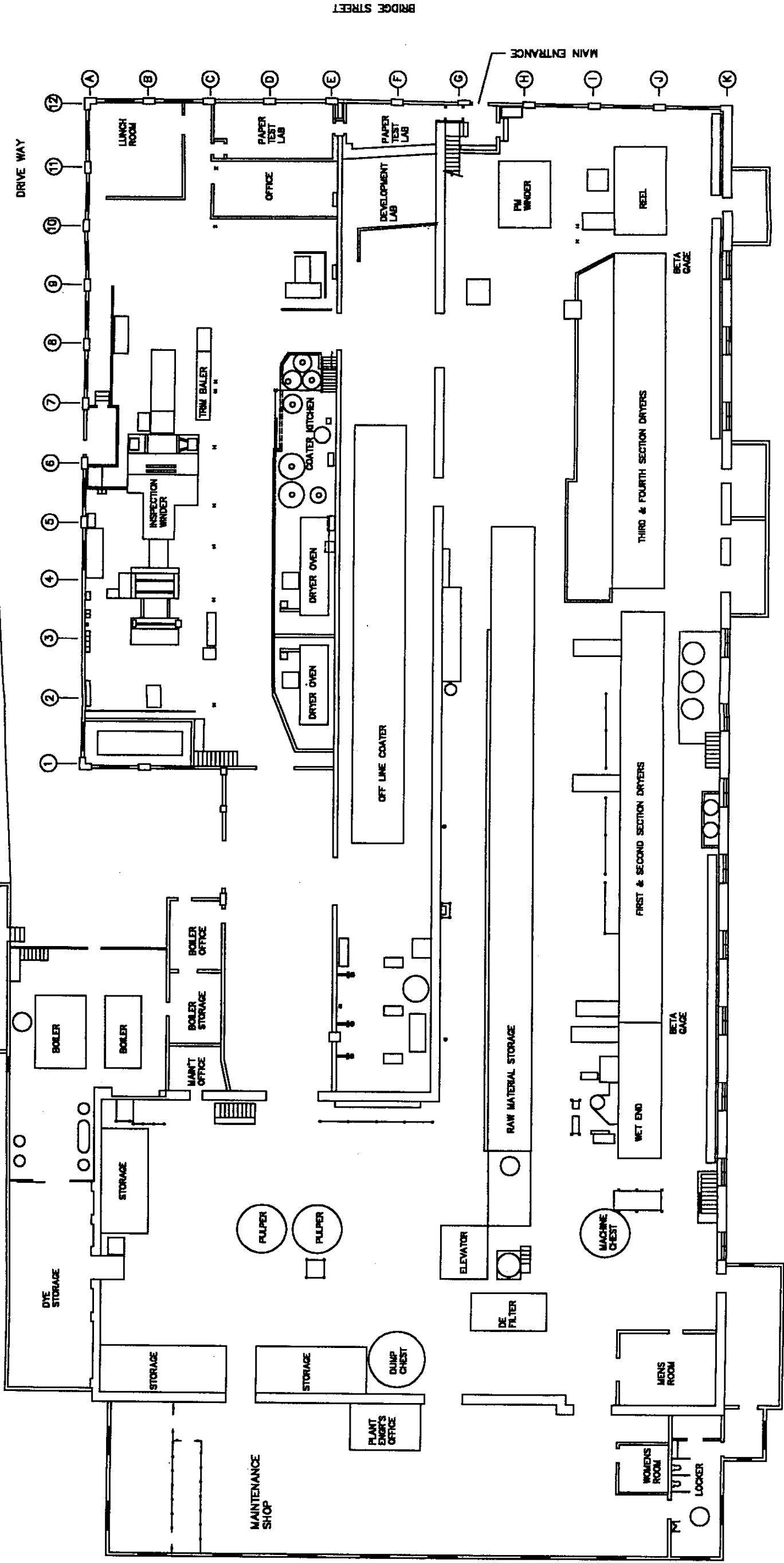


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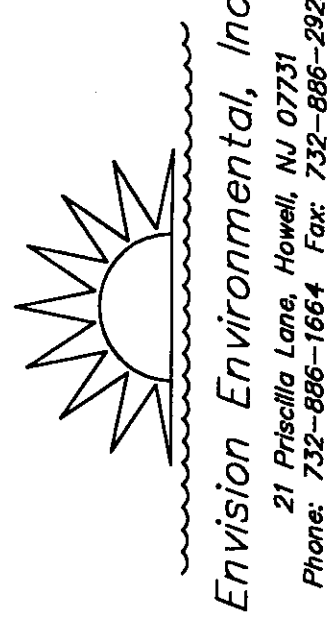
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FIGURE 2



FIRST FLOOR PLAN



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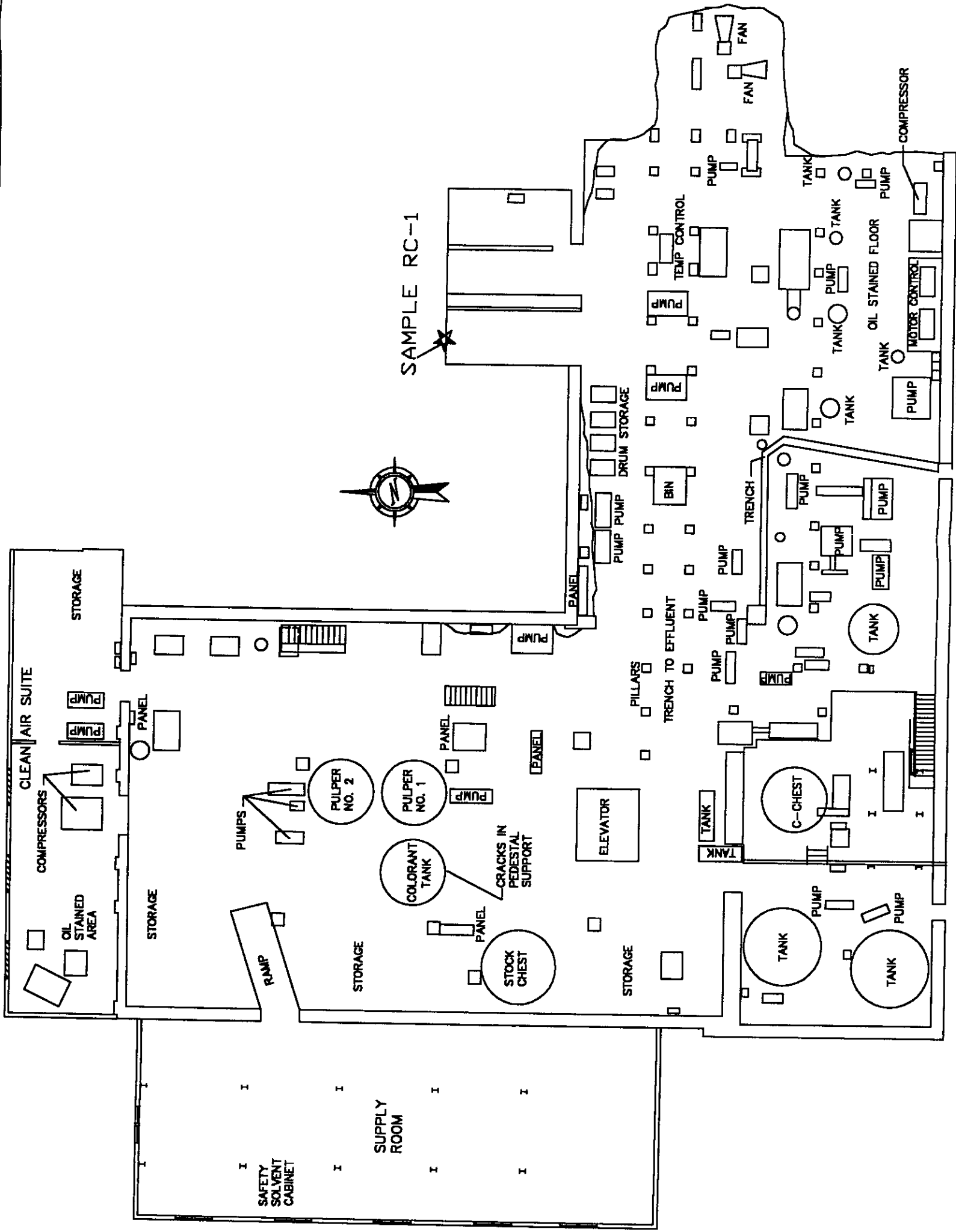
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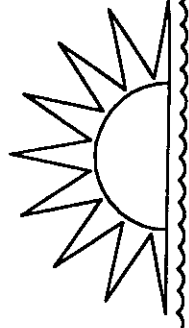
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FIGURE 3



SECOND FLOOR PLAN
 SAMPLE LOCATION MAP
 ★ RC-1 = ROCK CHIP SAMPLE

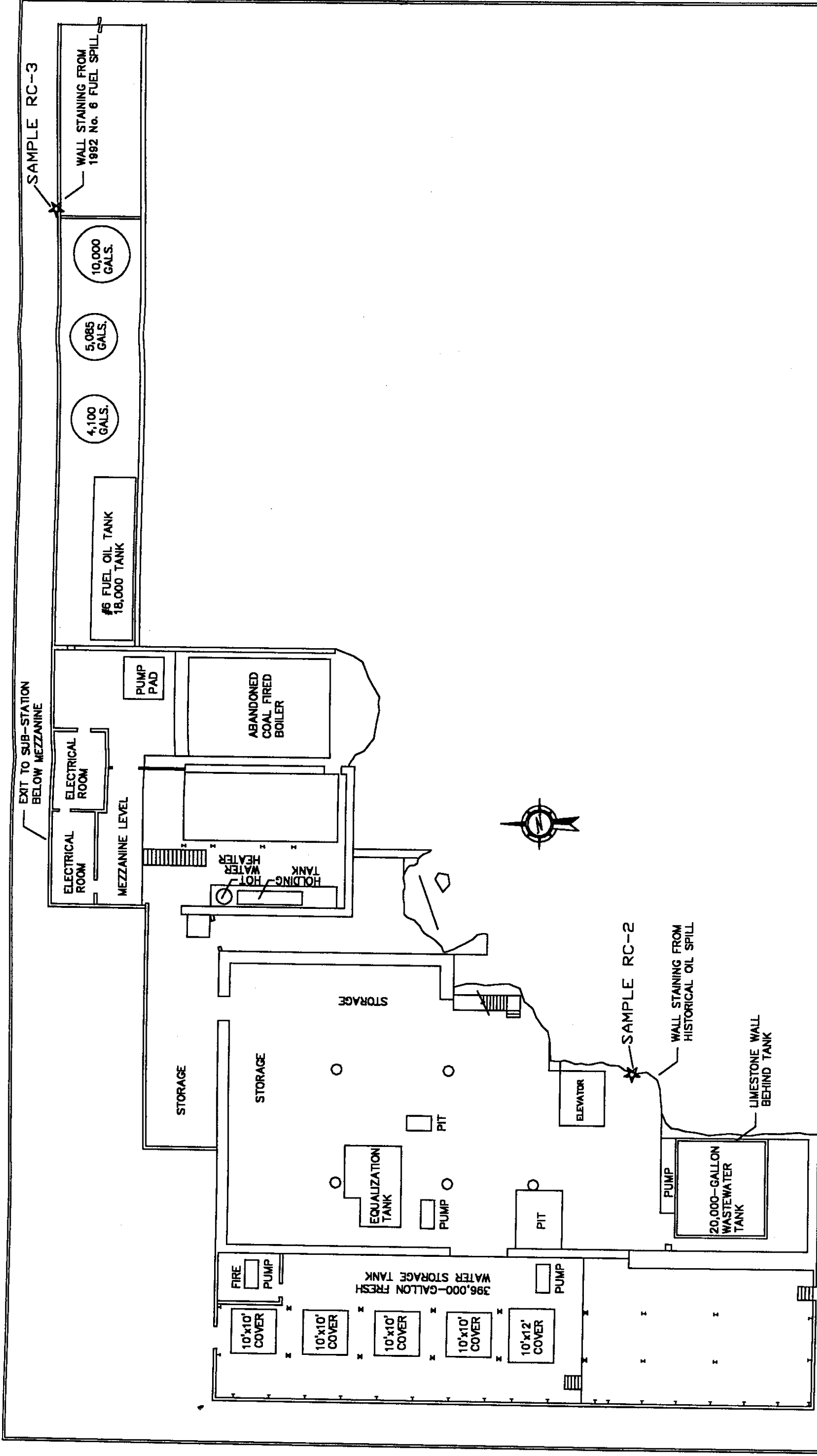


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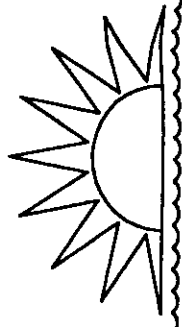
REXAM DSI

BRIDGE STREET
 BROWNVILLE, NY

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	FIGURE 4



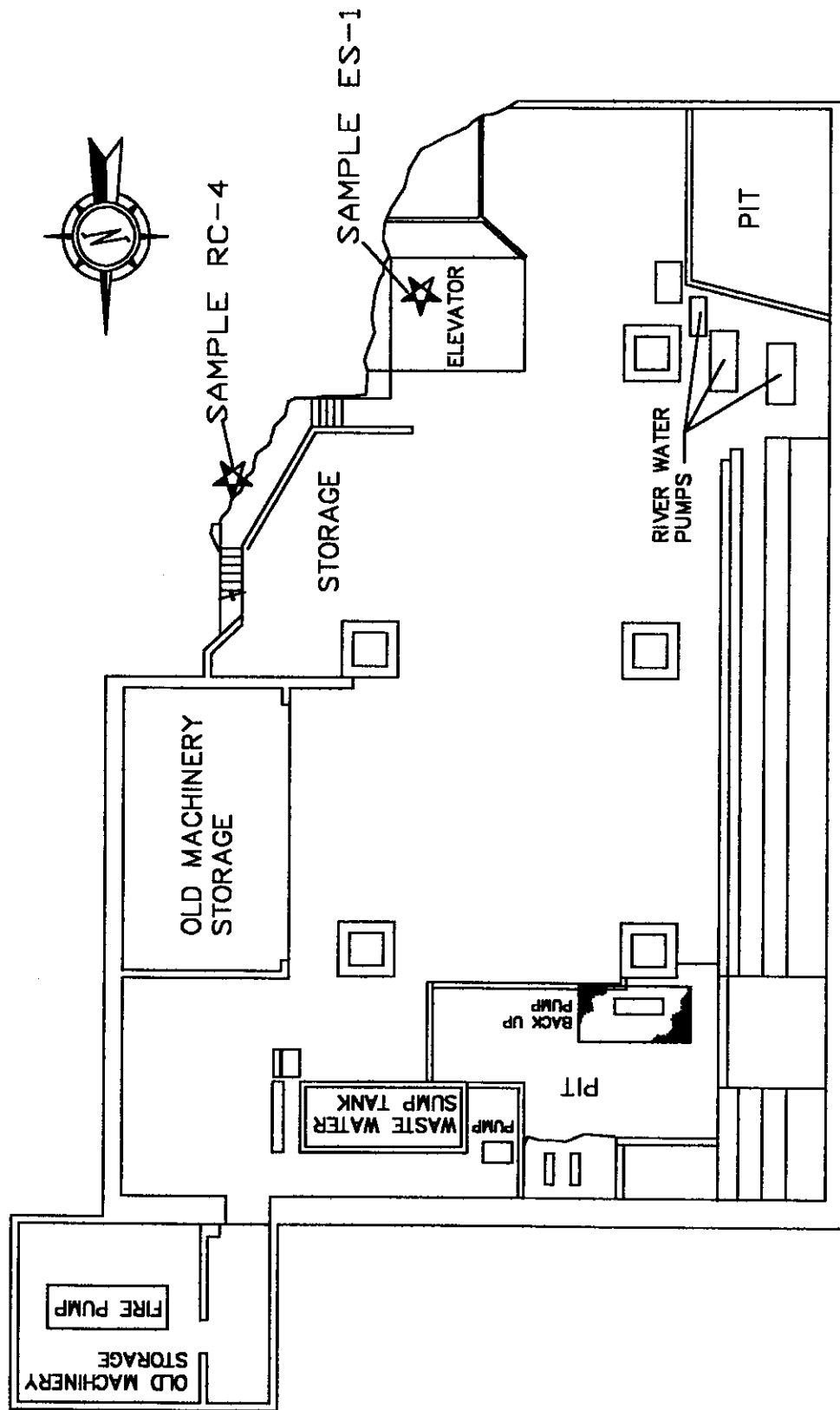
THIRD FLOOR PLAN
 SAMPLE LOCATION MAP
 ★ RC-1 = ROCK CHIP SAMPLE



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	Drawing No.
	FIGURE 5



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Project No.
 1500.REX

Date: 08/18/00

Scale: As Shown

Drawing No.

FIGURE 6

TABLES

TABLE 1

**Sampling and Analysis Summary
REXAM DSI
Brownville, New York**

Lab Sample ID	Field Sample ID	Sample Depth (ft)	Sample Date	Matrix	Method	Parameters
237812	EB-1	0.5 -1.0	10/25/2000	SOLID	8260B	PPVOA+15
237812	EB-1	0.5 -1.0	10/25/2000	SOLID	8270C	PPBN+15
237812	EB-1	0.5 -1.0	10/25/2000	SOLID	SW-846	PP METALS
237813	EB-2 Catch Basin	0-0.1	10/25/2000	SOLID	8260B	PPVOA+15
237813	EB-2 Catch Basin	0-0.1	10/25/2000	SOLID	8270C	PPBN+15
237813	EB-2 Catch Basin	0-0.1	10/25/2000	SOLID	SW-846	PP METALS
237814	EB-3	16-16.5	10/25/2000	SOLID	8260B	PPVOA+15
237814	EB-3	16-16.5	10/25/2000	SOLID	8270C	PPBN+15
237814	EB-3	16-16.5	10/25/2000	SOLID	8082	PCBs
237814	EB-3	16-16.5	10/25/2000	SOLID	SW-846	PP METALS
237815	EB-4	1.5-2	10/25/2000	SOLID	8260B	PPVOA+15
237815	EB-4	1.5-2	10/25/2000	SOLID	8270C	PPBN+15
237815	EB-4	1.5-2	10/25/2000	SOLID	8082	PCBs
237815	EB-4	1.5-2	10/25/2000	SOLID	SW-846	PP METALS
237839	EB-4	16-16.5	10/25/2000	SOLID	8260B	PPVOA+15
237839	EB-4	16-16.5	10/25/2000	SOLID	8270C	PPBN+15
237839	EB-4	16-16.5	10/25/2000	SOLID	8082	PCBs
237839	EB-4	16-16.5	10/25/2000	SOLID	SW-846	PP METALS
237816	EB-5	1.2-1.7	10/25/2000	SOLID	8260B	PPVOA+15
237816	EB-5	1.2-1.7	10/25/2000	SOLID	8270C	PPBN+15
237817	EB-6 Outfall	0-0.5	10/25/2000	SOLID	8260B	PPVOA+15
237817	EB-6 Outfall	0-0.5	10/25/2000	SOLID	8270C	PPBN+15
237818	TPE-1	3-3.5	10/25/2000	SOLID	8260B	PPVOA+15
237818	TPE-1	3-3.5	10/25/2000	SOLID	8270C	PPBN+15
237819	TPE-2	4-4.5	10/25/2000	SOLID	8260B	PPVOA+15
237819	TPE-2	4-4.5	10/25/2000	SOLID	8270C	PPBN+15
237820	TPE-3	1.5-2	10/25/2000	SOLID	8260B	PPVOA+15
237820	TPE-3	1.5-2	10/25/2000	SOLID	8270C	PPBN+15
237820	TPE-3	1.5-2	10/25/2000	SOLID	8082	PCBs
237820	TPE-3	1.5-2	10/25/2000	SOLID	SW-846	PP METALS
237821	MW-1		10/25/2000	WATER	624	PPVOA+15
237821	MW-1		10/25/2000	WATER	625	PPBN+15
237821	MW-1		10/25/2000	WATER	200 SERIES	PP METALS
237822	PZ-2		10/25/2000	WATER	624	PPVOA+15
237822	PZ-2		10/25/2000	WATER	625	PPBN+15
237822	PZ-2		10/25/2000	WATER	200 SERIES	PP METALS
237823	Trip_Blank-1		10/24/2000	WATER	624	PPVOA+15
237824	Field_Blank-1025		10/25/2000	WATER	624	PPVOA+15
237824	Field_Blank-1025		10/25/2000	WATER	625	PPBN+15
237824	Field_Blank-1025		10/25/2000	WATER	200 SERIES	PP METALS
237825	RC-1_2nd_Floor	0-0.5	10/26/2000	SOLID	8260B	PPVOA+15
237825	RC-1_2nd_Floor	0-0.5	10/26/2000	SOLID	8270C	PPBN+15
237825	RC-1_2nd_Floor	0-0.5	10/26/2000	SOLID	8082	PCBs
237826	RC-2_3rd_Floor	0-0.5	10/26/2000	SOLID	8260B	PPVOA+15
237826	RC-2_3rd_Floor	0-0.5	10/26/2000	SOLID	8270C	PPBN+15
237826	RC-2_3rd_Floor	0-0.5	10/26/2000	SOLID	8082	PCBs
237827	RC-3_3rd_Floor	0-0.5	10/26/2000	SOLID	8260B	PPVOA+15
237827	RC-3_3rd_Floor	0-0.5	10/26/2000	SOLID	8270C	PPBN+15
237827	RC-3_3rd_Floor	0-0.5	10/26/2000	SOLID	8082	PCBs
237828	RC-4_4th_Floor	0-0.5	10/26/2000	SOLID	8260B	PPVOA+15
237828	RC-4_4th_Floor	0-0.5	10/26/2000	SOLID	8270C	PPBN+15
237828	RC-4_4th_Floor	0-0.5	10/26/2000	SOLID	8082	PCBs
237829	ES-1_Elev. Shaft_4th	0-0.5	10/26/2000	SOLID	8260B	PPVOA+15
237829	ES-1_Elev. Shaft_4th	0-0.5	10/26/2000	SOLID	8270C	PPBN+15
237829	ES-1_Elev. Shaft_4th	0-0.5	10/26/2000	SOLID	8082	PCBs
237830	Trip_Blank-2		10/24/2000	WATER	624	PPVOA+15
237831	Field_Blank-1026		10/26/2000	WATER	624	PPVOA+15
237831	Field_Blank-1026		10/26/2000	WATER	625	PPBN+15
237831	Field_Blank-1026		10/26/2000	WATER	200 SERIES	PP METALS

1. 2
Volatile Organic Compounds
Sampling and Analysis Summary
REXAM DSI
Brownville, New York

Sample ID	Sample Depth (feet)	Lab Sample Number	Sampling Date	Matrix	NYSDEC Recommended Soil Cleanup Objectives	NYSDEC Soil Cleanup Objectives to Protect GW Quality	NYSDEC Groundwater Standards/ Criteria, Cw	EB-1	EB-2	EB-3	EB-4	EB-4	EB-5	EB-6	TPE-1	TPE-2	TPE-3
Units					ppb or ug/Kg	ppb or ug/Kg	ppb or ug/L	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
VOCs Detected																	
Methylene Chloride		100			100		5	0.8 J, B	ND (<3.3)	1.5 J, B	ND (<2.8)	ND (<2.9)	ND (<2.9)	2.5 J, B	ND (<3.2)	ND (<4.0)	ND (<2.8)
Trichlorofluoromethane		NS			NS		5	3.7 J	ND (<5.5)	3.7 J	ND (<4.6)	ND (<4.8)	1.0 J	ND (<6.3)	ND (<5.3)	1.1 J	ND (<4.7)
Chloroform		300			300		7		ND (<5.8)	ND (<6.5)	ND (<4.6)	ND (<4.8)	ND (<4.9)	ND (<6.3)	ND (<5.3)	ND (<6.7)	ND (<4.7)
trans-1,2-Dichloroethene		300			300		5		ND (<5.5)	ND (<6.5)	ND (<4.6)	ND (<4.8)	ND (<4.9)	ND (<6.3)	ND (<5.3)	ND (<6.7)	ND (<4.7)
cis-1,2-Dichloroethene		NS			NS		5		ND (<5.8)	ND (<6.5)	ND (<4.6)	ND (<4.8)	ND (<4.9)	ND (<6.3)	ND (<5.3)	ND (<6.7)	ND (<4.7)
Trichloroethene		700			700		5.0		ND (<1.1)	ND (<1.3)	ND (<0.9)	ND (<1.0)	ND (<1.0)	ND (<1.2)	ND (<1.0)	ND (<1.3)	ND (<0.9)
Benzene		60			60		0.7	0.9 J	0.9 J	19	ND (<0.9)	0.6 J	ND (<1.0)	1.3	4.1	ND (<1.3)	0.6 J
Tetrachloroethene		1,400			1,400		5		ND (<1.2)	ND (<1.3)	ND (<0.9)	ND (<1.0)	ND (<1.0)	ND (<1.2)	ND (<1.0)	ND (<1.3)	ND (<0.9)
Toluene		1,500			1,500		5	3.3 J	1.4 J	18	0.6 J	1.1 J	0.7 J	1.5 J	4.6 J	1.3 J	1.3 J
Ethylbenzene		5,500			5,500		5		ND (<4.4)	1.8 J	ND (<3.7)	ND (<3.8)	ND (<3.9)	ND (<5.0)	0.5 J	ND (<5.4)	ND (<3.7)
Total Xylenes		1,200			1,200		5	3.6 J	0.6 J	31	ND (<4.6)	ND (<4.8)	ND (<4.9)	ND (<6.3)	1.3 J	ND (<6.7)	0.6 J
Total Detected VOCs		NA			NA		NA	7.8	2.9	75.0	0.6	1.7	1.7	5.3	10.5	2.4	2.5
VOC TICs Detected																	
Unknown		NA			NA		NA	16						78	14		
Unknown Alkane		NA			NA		NA				6.8			8.8			
Unknown Alkene		NA			NA		NA							518			
Unknown Aromatic		NA			NA		NA			18.8							
Unknown Cycloalkane		NA			NA		NA										
Unknown Siloxane		NA			NA		NA	16									
Coeluting Unknowns		NA			NA		NA										
Methyl Cyclohexane		NA			NA		NA	8.5									
Hexanal		NA			NA		NA		7.5	30					11		
Trimethylbenzene isomer		NA			NA		NA			49				17			
C5H12 Alkane		NA			NA		NA										
C11H24 Alkane		NA			NA		NA										
C12H26 Alkane		NA			NA		NA										
C13H28 Alkane		NA			NA		NA										
C5H10 Alkene		NA			NA		NA										
C10H14 Aromatic		NA			NA		NA			11				20			
C9H8 Aromatic		NA			NA		NA			15							

T. 2
Volatile Organic Compounds
Sampling and Analysis Summary
REXAM DSI
Brownville, New York

Sample ID	Sample Depth (feet)	Lab Sample Number	Sampling Date	Matrix	Units	NYSDEC Recommended Soil Cleanup Objectives	NYSDEC Soil Cleanup Objectives to Protect GW Quality	NYSDEC Groundwater Standards/ Criteria, Cw	EB-1	EB-2	EB-3	EB-4	EB-4	EB-5	EB-6	TPE-1	TPE-2	TPE-3
C11H22 Cycloalkane						NA	NA	NA	0.5-1	Catch Basin	16-16.5	1.5-2	16-16.5	1.2-1.7	0-0.5	3-3.5	4-4.5	1.5-2.0
C12H24 Cycloalkane						NA	NA	NA	237812	237813	237814	237815	237839	237816	237817	237818	237819	237820
C5H100 Ketone						NA	NA	NA	10/25/00	10/25/00	10/25/00	10/25/00	10/25/00	10/25/00	10/25/00	10/25/00	10/25/00	10/25/00
C8H160 Ketone						NA	NA	NA										
Naphthalene						NA	NA	NA			280							
Tetrahydromethyl-naphthalene Isomers						NA	NA	NA										
Benzothiophene Isomer						NA	NA	NA			13							
Methylnaphthalene Isomer						NA	NA	NA			9.1							
Decahydronaphthalene Isomers						NA	NA	NA										
Idene Isomers						NA	NA	NA				5.1						
2-Propanone						NA	NA	NA							17			
2-Butanone						NA	NA	NA							9.7			
2-Hexanone						NA	NA	NA										
Acetic Acid, methyl ester						NA	NA	NA										
Butanal						NA	NA	NA										
Pentanal						NA	NA	NA										
Total VOC TICs						NA	NA	NA	40.5	7.5	425.9	11.9	ND	ND	668.5	25.0	ND	ND
Total VOCs						NA	NA	NA	48.3	10.4	500.9	12.5	1.7	1.7	674	35.5	2.4	2.5

Tr. ?
Volatile Organic Compounds
Sampling and Analysis Summary
REXAM DSI
Brownville, New York

Sample ID	NYSDEC Recommended Soil Cleanup Objectives	NYSDEC Soil Cleanup Objectives to Protect GW Quality	NYSDEC Groundwater Standards/ Criteria, Cw	RC-1 0-0.5 237825 10/26/00 SOLID ug/Kg	RC-2 0-0.5 237826 10/25/00 SOLID ug/L	RC-3 0-0.5 237827 10/26/00 SOLID ug/Kg	RC-4 0-0.5 237828 10/26/00 SOLID ug/Kg	ES-1 0-0.5 237829 10/26/00 SOLID ug/Kg	MW-1 237821 10/25/00 WATER ug/L	PZ-2 237822 10/25/00 WATER ug/L	FIELD BLANK 237824 10/25/00 WATER ug/L	FIELD BLANK 237831 10/26/00 WATER ug/L	TRIP BLANK-1 237823 10/24/00 WATER ug/L	TRIP BLANK-2 237830 10/24/00 WATER ug/L
VOCs Detected														
Methylene Chloride	100	100	5	ND (<2.8)	0.8 J, B	1.4 J, B	1.1 J, B	1.7 J, B	ND (<0.8)	ND (<0.8)	ND (<0.8)	8.6	ND (<0.8)	ND (<0.8)
Trichlorofluoromethane	NS	NS	5	ND (<4.6)	ND (<5.2)	5.9	ND (<5.0)	ND (<7.8)	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)
Chloroform	300	300	7	ND (<4.6)	1.8 J	0.6 J	2.1 J	ND (<7.8)	ND (<0.2)	ND (<0.2)	ND (<0.2)	ND (<0.2)	ND (<0.2)	ND (<0.2)
trans-1,2-Dichloroethene	300	300	5	ND (<4.6)	ND (<5.2)	ND (<5.0)	ND (<5.0)	2.3 J	ND (<0.4)	ND (<0.4)	ND (<0.4)	ND (<0.4)	ND (<0.4)	ND (<0.4)
cis-1,2-Dichloroethene	NS	NS	5	ND (<4.6)	ND (<5.2)	ND (<5.0)	ND (<5.0)	7.6 J	ND (<0.4)	ND (<0.4)	ND (<0.4)	ND (<0.4)	ND (<0.4)	ND (<0.4)
Trichloroethene	700	700	5.0	ND (<0.9)	0.8 J	ND (<1.0)	ND (<1.0)	8.4	ND (<0.4)	ND (<0.4)	ND (<0.4)	ND (<0.4)	ND (<0.4)	ND (<0.4)
Benzene	60	60	0.7	ND (<0.9)	11	ND (<1.0)	1.6	3.2	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)
Tetrachloroethene	1,400	1,400	5	2.9	ND (<1.0)	ND (<1.0)	0.8 J	12	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)
Toluene	1,500	1,500	5	0.7 J	7.2	2.6 J	6.8	11	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)
Ethylbenzene	5,500	5,500	5	ND (<3.7)	ND (<4.2)	ND (<4.0)	ND (<4.0)	4.1 J	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)
Total Xylenes	1,200	1,200	5	ND (<4.6)	ND (<5.2)	ND (<5.0)	ND (<5.0)	11	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)
Total Detected VOCs	NA	NA	NA	3.6	21.6	10.5	12.4	61.3	ND	ND	ND	8.6	ND	ND
VOC TICs Detected														
Unknown	NA	NA	NA				78.3	490						
Unknown Alkane	NA	NA	NA			6.2	31							
Unknown Alkene	NA	NA	NA											
Unknown Aromatic	NA	NA	NA											
Unknown Cycloalkane	NA	NA	NA				21							
Unknown Siloxane	NA	NA	NA											
Coeluting Unknowns	NA	NA	NA			14.4	29							
Methyl Cyclohexane	NA	NA	NA											
Hexanal	NA	NA	NA											
Trimethylbenzene Isomer	NA	NA	NA											
C5H12 Alkane	NA	NA	NA											
C11H24 Alkane	NA	NA	NA					490						
C12H26 Alkane	NA	NA	NA					580						
C13H28 Alkane	NA	NA	NA					450						
C5H10 Alkene	NA	NA	NA											
C10H14 Aromatic	NA	NA	NA											
C9H8 Aromatic	NA	NA	NA											

T/ 2
Volatile Organic Compounds
Sampling and Analysis Summary
REXAM DSI
Brownville, New York

Sample ID	Sample Depth (feet)	Lab Sample Number	Sampling Date	Matrix	Units	NYSDEC Recommended Cleanup Objectives	NYSDEC Soil Cleanup Objectives to Protect GW Quality	NYSDEC Groundwater Standards/ Criteria, Cw	RC-1 0-0.5 237825 10/26/00 SOLID ug/Kg	RC-2 0-0.5 237826 10/25/00 SOLID ug/L	RC-3 0-0.5 237827 10/26/00 SOLID ug/Kg	RC-4 0-0.5 237828 10/26/00 SOLID ug/Kg	ES-1 0-0.5 237829 10/26/00 SOLID ug/Kg	MW-1 237821 10/25/00 WATER ug/L	PZ-2 237822 10/25/00 WATER ug/L	FIELD BLANK 237824 10/25/00 WATER ug/L	FIELD BLANK 237831 10/26/00 WATER ug/L	TRIP BLANK-1 237823 10/24/00 WATER ug/L	TRIP BLANK-2 237830 10/24/00 WATER ug/L
C11H22 Cycloalkane					NA	NA	NA	NA						840					
C12H24 Cycloalkane					NA	NA	NA	NA						390					
C5H10O Ketone					NA	NA	NA	NA		10									
C8H16O Ketone					NA	NA	NA	NA		11									
Naphthalene					NA	NA	NA	NA			7.5								
Tetrahydromethyl-naphthalene Isomers					NA	NA	NA	NA			15.8								
Benzothiophene Isomer					NA	NA	NA	NA											
Methylnaphthalene Isomer					NA	NA	NA	NA											
Decahydronaphthalene Isomers					NA	NA	NA	NA				22		380					
Idene Isomers					NA	NA	NA	NA			20.6								
2-Propanone					NA	NA	NA	NA	5.4	36	5.4	42							
2-Butanone					NA	NA	NA	NA		16		20							
2-Hexanone					NA	NA	NA	NA		6.9									
Acetic Acid, methyl ester					NA	NA	NA	NA		6.2									
Butanal					NA	NA	NA	NA		8.3									
Pentanal					NA	NA	NA	NA		6.2									
Total VOC TICs					NA	NA	NA	NA	5.4	100.6	69.9	243.3		3620	ND	ND	ND	ND	ND
Total VOCs					NA	NA	NA	NA	9.0	122.2	80.4	255.7		3681	ND	ND	9	ND	ND

Notes:

ppm = Parts Per Million = mg/Kg

ppb = Parts Per Billion = ug/L

Bolded = Compounds which exceed NYSDEC standards.

HWR-94-4046, 1/24/94 (TAGM 4046)

NA = Not Applicable.

ND = Not Detected.

ND(<) = Less than the Reporting Limit.

NS = No criteria listed in TAGM 4046 or NYSDEC Water Quality Standards.

J = Mass spectral data indicates the presence of a compound that meets the identification criteria. The result is less than the specified quantitation limit but greater than zero. The concentration given is an approximate value.

VOC = Volatile organic compounds via USEPA Method 8260B.

TIC = Tentatively identified compounds via USEPA Method 8260B.

Table 3
Base Neutral Compounds
Sampling and Analysis Summary
REXAM DSI
Brownville, New York

Sample ID Sample Depth (feet) Lab Sample Number Sampling Date Matrix Units	NYSDEC Recommended Cleanup Objectives Soil ug/Kg	NYSDEC Soil Cleanup Objectives to Protect GW Quality ug/Kg	NYSDEC Groundwater Standards/ Criteria ug/L	EB-1 0.5-1 237812 10/25/00 SOLID ug/Kg	EB-2 Catch Basin 237813 10/25/00 SOLID ug/Kg	EB-3 16-16.5 237814 10/25/00 SOLID ug/Kg	EB-4 1.5-2 237815 10/25/00 SOLID ug/Kg	EB-4 16-16.5 237839 10/25/00 SOLID ug/Kg	EB-5 1.2-1.7 237816 10/25/00 SOLID ug/Kg
Detected SVOCs									
Naphthalene	13,000	13,000	10	ND (<390)	ND (<400)	2,300	71 J	16 J	15 J
Acenaphthylene	41,000	41,000	20	ND (<390)	12 J	850 J	290 J	33 J	39 J
Acenaphthene	50,000	90,000	20	ND (<390)	12 J	250 J	54 J	7.8 J	ND (<370)
Fluorene	50,000	350,000	50	ND (<390)	23 J	850 J	78 J	12 J	ND (<370)
N-Nitrosodiphenylamine	NS	NS	NS	ND (<390)	ND (<400)	ND (<2,200)	ND (<360)	ND (<360)	ND (<370)
Phenanthrene	50,000	220,000	50	63 J	160 J	12,000	1,000	110 J	78 J
Anthracene	50,000	700,000	50	ND (<390)	31 J	770 J	380	32 J	26 J
Di-n-butylphthalate	8,100	8,100	50	ND (<390)	95 J	ND (<2,200)	ND (<360)	ND (<360)	ND (<370)
Fluoranthene	50,000	1,900,000	50	42 J	350 J	12,000	2,500	190 J	290 J
Pyrene	50,000	665,000	50	43 J	360 J	9,200	2,600	230 J	350 J
Benzzidine	NS	NS	5	ND (<800)	ND (<1,600)	ND (<8,700)	ND (<1,400)	ND (<1,400)	ND (<1,500)
Butylbenzylphthalate	50,000	122,000	50	ND (<390)	ND (<400)	ND (<2,200)	ND (<360)	ND (<360)	ND (<370)
3,3'-Dichlorobenzidine	NS	NS	5	ND (<80)	ND (<800)	ND (<4,300)	ND (<720)	ND (<720)	ND (<740)
Benzo(a)anthracene	224 or MDL	3,000	0.002	ND (<39)	160	3,200	1,300	120	240
Chrysene	400	400	0.002	70 J	300 J	3,700	1,300	160 J	180 J
bis(2-Ethylhexyl)phthalate	50,000	435,000	5	ND (<390)	450	ND (<2,200)	ND (<360)	80 J	ND (<370)
Di-n-octylphthalate	50,000	120,000	50	ND (<390)	280 J	ND (<2,200)	ND (<360)	ND (<360)	ND (<370)
Benzo(b)fluoranthene	1,100	1,100	0.002	30 J	380	4,000	2,000	180	220
Benzo(k)fluoranthene	1,100	1,100	0.002	ND (<39)	200	1,700	940	74	110
Benzo(a)pyrene	61 or MDL	11,000	MDL	8.8 J	160	2,800	1,300	110	180
Indeno(1,2,3-cd)pyrene	3,200	3,200	0.002	ND (<39)	68	1,300	490	39	74
Dibenz(a,h)anthracene	14 or MDL	165,000,000	50	ND (<39)	ND (<40)	260	81	ND (<36)	19 J
Benzo(g,h,i)perylene	50,000	800,000	5	8.9 J	69 J	1,400 J	370	31 J	88 J
Total Detected SVOCs				266	3,110	56,580	14,754	1,425	1,909

Table 3
Base Neutral Compounds
Sampling and Analysis Summary
REXAM DSI
Brownville, New York

Sample ID	Sample Depth (feet)	Lab Sample Number	Sampling Date	Matrix	Units	NYSDEC Recommended Cleanup Objectives	NYSDEC Soil Cleanup Objectives to Protect GW Quality	NYSDEC Groundwater Standards/ Criteria	EB-1 0.5-1 237812 10/25/00 SOLID ug/Kg	EB-2 Catch Basin 237813 10/25/00 SOLID ug/Kg	EB-3 16-16.5 237814 10/25/00 SOLID ug/Kg	EB-4 1.5-2 237815 10/25/00 SOLID ug/Kg	EB-4 16-16.5 237839 10/25/00 SOLID ug/Kg	EB-5 1.2-1.7 237816 10/25/00 SOLID ug/Kg
Detected SVOC TICs														
	beta-Amyrin	NA	NA	NA	NA	NA	NA	NA		7,400				
	C19H40 Alkane	NA	NA	NA	NA	NA	NA	NA						
	C15H10/C15H12 PAHs	NA	NA	NA	NA	NA	NA	NA				310		
	C16H14 PAH	NA	NA	NA	NA	NA	NA	NA	400					
	C17H12 PAH	NA	NA	NA	NA	NA	NA	NA						
	C17H16 PAH	NA	NA	NA	NA	NA	NA	NA						
	C20H12 PAH	NA	NA	NA	NA	NA	NA	NA			2,600	2,660		
	Unknown	NA	NA	NA	NA	NA	NA	NA		49,300	8,600	2,970	3,440	
	Unknown Alkane	NA	NA	NA	NA	NA	NA	NA		55,500	28,500	1,190	3,500	
	Unknown Alkane/Unknown	NA	NA	NA	NA	NA	NA	NA		14,000	3,800			
	Unknown Sterol	NA	NA	NA	NA	NA	NA	NA			2,700			
	Vitamin E	NA	NA	NA	NA	NA	NA	NA		11,000				
	5-Pentyl-1,3-benzenediol	NA	NA	NA	NA	NA	NA	NA			2,300			
Total Detected SVOC TICs									400	137,200	48,500	7,130	6,940	ND
Total SVOCs & TICs									666	140,310	105,080	21,884	8,365	1,909

Table 3
Base Neutral Compounds
Sampling and Analysis Summary
REXAM DSI
Brownville, New York

Sample ID Sample Depth (feet) Lab Sample Number Sampling Date Matrix Units	NYSDEC Recommended Cleanup Objectives Soil ug/Kg	NYSDEC Soil Cleanup Objectives to Protect GW Quality ug/Kg	NYSDEC Groundwater Standards/ Criteria ug/L	EB-6 0-0.5 237817 10/25/00 SOLID ug/Kg	TPE-1 3-3.5 237818 10/25/00 SOLID ug/Kg	TPE-2 4-4.5 237819 10/25/00 SOLID ug/Kg	TPE-3 1.5-2.0 237820 10/25/00 SOLID ug/Kg	RC-1 0-0.5 237825 10/26/00 SOLID ug/Kg	RC-2 0-0.5 237826 10/26/00 SOLID ug/Kg
Detected SVOCs									
Naphthalene	13,000	13,000	10	ND (<1,500)	53 J	ND (<460)	ND (<350)	ND (<1,700)	ND (<43,000)
Acenaphthylene	41,000	41,000	20	ND (<5,400)	69 J	ND (<460)	ND (<350)	ND (<1,700)	ND (<43,000)
Acenaphthene	50,000	90,000	20	ND (<5,400)	38 J	ND (<460)	ND (<350)	ND (<1,700)	ND (<43,000)
Fluorene	50,000	350,000	50	ND (<5,400)	72 J	ND (<460)	ND (<350)	ND (<1,700)	ND (<43,000)
N-Nitrosodiphenylamine	NS	NS	NS	ND (<5,400)	ND (<360)	ND (<460)	ND (<350)	190 J	ND (<43,000)
Phenanthrene	50,000	220,000	50	ND (<5,400)	800	54 J	ND (<350)	120 J	1,000 J
Anthracene	50,000	700,000	50	ND (<5,400)	100 J	ND (<460)	ND (<350)	ND (<1,700)	ND (<43,000)
Di-n-butylphthalate	8,100	8,100	50	ND (<5,400)	ND (<360)	ND (<460)	ND (<350)	ND (<1,700)	ND (<43,000)
Fluoranthene	50,000	1,900,000	50	ND (<5,400)	870	15 J	8.5 J	280 J	2,500 J
Pyrene	50,000	665,000	50	ND (<5,400)	700	17 J	12 J	420 J	5,400 J
Benzzidine	NS	NS	5	ND (<22,000)	ND (<1,400)	ND (<1,800)	ND (<1,400)	ND (<6,700)	ND (<170,000)
Butylbenzylphthalate	50,000	122,000	50	ND (<5,400)	ND (<360)	ND (<460)	ND (<350)	ND (<1,700)	ND (<43,000)
3,3'-Dichlorobenzidine	NS	NS	5	ND (<11,000)	ND (<720)	ND (<920)	ND (<700)	ND (<3,300)	ND (<87,000)
Benzo(a)anthracene	224 or MDL	3,000	0.002	ND (<540)	310	ND (<46)	ND (<35)	180	ND (<4,300)
Chrysene	400	400	0.002	ND (<5,400)	350 J	40 J	8.3 J	2,000	ND (<43,000)
bis(2-Ethylhexyl)phthalate	50,000	435,000	5	ND (<5,400)	ND (<360)	ND (<460)	ND (<350)	980 J	ND (<43,000)
Di-n-octylphthalate	50,000	120,000	50	ND (<5,400)	ND (<360)	ND (<460)	ND (<350)	ND (<1,700)	15,000 J
Benzo(b)fluoranthene	1,100	1,100	0.002	ND (<540)	390	11 J	10 J	260	ND (<4,300)
Benzo(k)fluoranthene	1,100	1,100	0.002	ND (<540)	160	ND (<46)	ND (<35)	44 J	ND (<4,300)
Benzo(a)pyrene	61 or MDL	11,000	MDL	ND (<540)	260	ND (<46)	ND (<35)	310	ND (<4,300)
Indeno(1,2,3-cd)pyrene	3,200	3,200	0.002	ND (<540)	130	ND (<46)	ND (<35)	ND (<170)	ND (<4,300)
Dibenz(a,h)anthracene	14 or MDL	165,000,000	50	ND (<540)	22 J	ND (<46)	ND (<35)	ND (<170)	ND (<4,300)
Benzo(g,h,i)perylene	50,000	800,000	5	ND (<5,400)	160 J	ND (<460)	ND (<350)	ND (<1,700)	ND (<43,000)
Total Detected SVOCs				ND	4,484	137	38.8	4,784	23,900

1. a 3
Base Neutral Compounds
Sampling and Analysis Summary
REXAM DSI
Brownville, New York

Sample ID Sample Depth (feet) Lab Sample Number Sampling Date Matrix Units	NYSDEC Recommended Cleanup Objectives Soil ug/Kg	NYSDEC Soil Cleanup Objectives to Protect GW Quality ug/Kg	NYSDEC Groundwater Standards/ Criteria ug/L	EB-6 0-0.5 237817 10/25/00 SOLID ug/Kg	TPE-1 3-3.5 237818 10/25/00 SOLID ug/Kg	TPE-2 4-4.5 237819 10/25/00 SOLID ug/Kg	TPE-3 1.5-2.0 237820 10/25/00 SOLID ug/Kg	RC-1 0-0.5 237825 10/26/00 SOLID ug/Kg	RC-2 0-0.5 237826 10/26/00 SOLID ug/Kg
Detected SVOC TICs									
beta -Amyrin	NA	NA	NA						
C19H40 Alkane	NA	NA	NA						
C15H10/C15H12 PAHs	NA	NA	NA						
C16H14 PAH	NA	NA	NA						
C17H12 PAH	NA	NA	NA						
C17H16 PAH	NA	NA	NA						
C20H12 PAH	NA	NA	NA						
Unknown	NA	NA	NA	259,400	2,040	420		209,600	5,540,000
Unknown Alkane	NA	NA	NA						
Unknown Alkane/Unknown	NA	NA	NA						
Unknown Sterol	NA	NA	NA		380				
Vitamin E	NA	NA	NA						
5-Pentyl-1,3-benzenediol	NA	NA	NA						
Total Detected SVOC TICs				259,400	2,420	420	ND	209,600	5,540,000
Total SVOCs & TICs				259,400	6,904	557	38.8	214,384	5,563,900

Table 3
Base Neutral Compounds
Sampling and Analysis Summary
REXAM DSI
Brownville, New York

Sample ID Sample Depth (feet) Lab Sample Number Sampling Date Matrix Units	NYSDEC Recommended Cleanup Objectives Soil ug/Kg	NYSDEC Soil Cleanup Objectives to Protect GW Quality ug/Kg	NYSDEC Groundwater Standards/ Criteria ug/L	RC-3 0-0.5 237827 10/26/00 SOLID ug/Kg	RC-4 0-0.5 237828 10/26/00 SOLID ug/Kg	ES-1 0-0.5 237829 10/26/00 SOLID ug/Kg	Field Blank 237831 10/26/00 WATER ug/L	MW-1 237821 10/25/00 WATER ug/L	PZ-2 237822 10/25/00 WATER ug/L	Field Blank 237824 10/25/00 WATER ug/L
Detected SVOCs										
Naphthalene	13,000	13,000	10	ND (<8,900)	ND (<43,000)	20 J	ND (<0.8)	ND (<0.9)	ND (<0.9)	ND (<1.0)
Acenaphthylene	41,000	41,000	20	ND (<8,900)	ND (<43,000)	13 J	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.7)
Acenaphthene	50,000	90,000	20	220 J	ND (<43,000)	17 J	ND (<0.6)	ND (<0.6)	ND (<0.6)	ND (<0.8)
Fluorene	50,000	350,000	50	200 J	ND (<43,000)	28 J	ND (<0.8)	ND (<0.8)	ND (<0.8)	ND (<1.0)
N-Nitrosodiphenylamine	NS	NS	NS	ND (<8,900)	ND (<43,000)	64 J	ND (<0.6)	ND (<0.6)	ND (<0.6)	ND (<0.7)
Phenanthrene	50,000	220,000	50	1,100 J	ND (<43,000)	240 J	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.6)
Anthracene	50,000	700,000	50	ND (<8,900)	ND (<43,000)	60 J	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.4)
Di-n-butylphthalate	8,100	8,100	50	ND (<8,900)	ND (<43,000)	200 J	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.7)
Fluoranthene	50,000	1,900,000	50	600 J	1,500 J	470 J	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.6)
Pyrene	50,000	665,000	50	7,400 J	6,600 J	420 J	ND (<0.6)	ND (<0.6)	ND (<0.6)	ND (<0.7)
Benzzidine	NS	NS	5	ND (<36,000)	ND (<170,000)	ND (<2,200)	ND (<14)	ND (<15)	ND (<15)	ND (<18)
Butylbenzylphthalate	50,000	122,000	50	ND (<8,900)	ND (<43,000)	ND (<560)	ND (<0.7)	ND (<0.8)	ND (<0.8)	ND (<0.9)
3,3'-Dichlorobenzidine	NS	NS	5	ND (<18,000)	ND (<87,000)	ND (<1,100)	ND (<5.0)	ND (<5.3)	ND (<5.3)	ND (<6.3)
Benzo(a)anthracene	224 or MDL	3,000	0.002	1,800	890 J	210	ND (<0.4)	ND (<0.5)	ND (<0.5)	ND (<0.5)
Chrysene	400	400	0.002	5,400 J	1,400 J	260 J	ND (<0.7)	ND (<0.7)	ND (<0.7)	ND (<0.9)
bis(2-Ethylhexyl)phthalate	50,000	435,000	5	ND (<8,900)	ND (<43,000)	3,700	ND (<2.1)	ND (<2.2)	ND (<2.2)	ND (<2.6)
Di-n-octylphthalate	50,000	120,000	50	ND (<8,900)	ND (<43,000)	420 J	ND (<0.3)	ND (<0.4)	ND (<0.4)	ND (<0.4)
Benzo(b)fluoranthene	1,100	1,100	0.002	1,300	ND (<4,300)	490	ND (<0.4)	ND (<0.4)	ND (<0.4)	ND (<0.5)
Benzo(k)fluoranthene	1,100	1,100	0.002	390 J	ND (<4,300)	90	ND (<0.7)	ND (<0.7)	ND (<0.7)	ND (<0.9)
Benzo(a)pyrene	61 or MDL	11,000	MDL	1,500	5,000	230	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)
Indeno(1,2,3-cd)pyrene	3,200	3,200	0.002	ND (<890)	ND (<4,300)	55 J	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.7)
Dibenz(a,h)anthracene	14 or MDL	165,000,000	50	ND (<890)	ND (<4,300)	ND (<56)	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.4)
Benzo(g,h,i)perylene	50,000	800,000	5	780 J	ND (<43,000)	74 J	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.6)
Total Detected SVOCs				20,690	15,390	7,061	ND	ND	ND	ND

Table 3
Base Neutral Compounds
Sampling and Analysis Summary
REXAM DSI
Brownville, New York

Sample ID Sample Depth (feet) Lab Sample Number Sampling Date Matrix Units	NYSDEC Recommended Cleanup Objectives Soil ug/Kg	NYSDEC Soil Cleanup Objectives to Protect GW Quality ug/Kg	NYSDEC Groundwater Standards/ Criteria ug/L	RC-3 0-0.5 237827 10/26/00 SOLID ug/Kg	RC-4 0-0.5 237828 10/26/00 SOLID ug/Kg	ES-1 0-0.5 237829 10/26/00 SOLID ug/Kg	Field Blank 237831 10/26/00 WATER ug/L	MW-1 237821 10/25/00 WATER ug/L	PZ-2 237822 10/25/00 WATER ug/L	Field Blank 237824 10/25/00 WATER ug/L
Detected SVOC TICs										
beta -Amyrin	NA	NA	NA							
C19H40 Alkane	NA	NA	NA	14,000						
C15H10/C15H12 PAHs	NA	NA	NA	14,000						
C16H14 PAH	NA	NA	NA	38,000						
C17H12 PAH	NA	NA	NA							
C17H16 PAH	NA	NA	NA	40,000						
C20H12 PAH	NA	NA	NA							
Unknown	NA	NA	NA	71,000	410,000	45,000				
Unknown Alkane/Unknown	NA	NA	NA	11,000		15,400				
Unknown Sterol	NA	NA	NA		100,000					
Vitamin E	NA	NA	NA							
5-Pentyl-1,3-benzenediol	NA	NA	NA							
Total Detected SVOC TICs				188,000	510,000	60,400	ND	ND	ND	ND
Total SVOCs & TICs				208,690	525,390	67,461	ND	ND	ND	ND

Notes:

ppm = Parts Per Million = mg/Kg

ppb = Parts Per Billion = ug/L

Bolded = Compounds which exceed NYSDEC standards.

HWR-94-4046, 1/24/94 (TAGM 4046)

NA = Not Applicable.

ND = Not Detected.

ND(<) = Less than the Reporting Limit.

NS = No criteria listed in TAGM or NYSDEC Water Quality Standards.

B = The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

J = Mass spectral data indicates the presence of a compound that meets the identification criteria.

The result is less than the specified quantitation limit but greater than zero.

The concentration given is an approximate value.

SVOC = Semi-volatile organic compounds via USEPA Method 8270C.

TIC = Tentatively identified compounds via USEPA Method 8270C.

TABLE 4
Priority Pollutant Metals
Sampling and Analysis Summary
REXAM DSI
Brownville, New York

Sample ID	Sample Depth (ft.)	NYSDEC Recommended Soil Cleanup Objectives (mg/Kg)	NYSDEC Water Quality Regulations (ug/L)	EB-1 0.5-1.0 237812 10/25/00 SOLID mg/Kg	EB-2 Catch Basin 237813 10/25/00 SOLID mg/Kg	EB-3 16-16.5 237814 10/25/00 SOLID mg/Kg	EB-4 1.5-2 237815 10/25/00 SOLID mg/Kg	EB-4 16-16.5 237839 10/25/00 SOLID mg/Kg	TPE-3 1.5-2 237820 10/25/00 SOLID mg/Kg	MW-1 237821 10/25/00 WATER ug/L	PZ-2 237822 10/25/00 WATER ug/L	Field Blank 237824 10/25/00 WATER ug/L	Field Blank 237831 10/26/00 WATER ug/L
Matrix	Units												
METALS													
Antimony	SB	3	ND (<1.4)	N	ND (<1.4)	N	ND (<1.1)	N	ND (<1.3)	N	ND (<4.5)	ND (<4.5)	ND (<4.5)
Arsenic	7.5 or SB	25	9.9		0.87		2.2		1.6		ND (<3.6)	ND (<3.6)	ND (<3.6)
Beryllium	0.16 or SB	NS	0.59		0.20		0.21		0.24	B	ND (<0.20)	ND (<0.20)	ND (<0.20)
Cadmium	1 or SB	5	ND (<0.094)	ND (<0.10)	ND (<0.096)	ND (<0.10)	ND (<0.079)	ND (<0.087)	ND (<0.084)	ND (<0.40)	ND (<0.40)	ND (<0.40)	ND (<0.40)
Chromium	10 or SB	50	6.4		14.0		5.5		6.7		ND (<1.1)	ND (<1.1)	ND (<1.1)
Copper	25 or SB	200	12.2	*	15.3	*	15.7	*	11.3	*	ND (<2.7)	ND (<2.7)	ND (<2.7)
Lead	SB	25	9.6	*	12.4	*	21.8	*	34.2	*	ND (<2.1)	ND (<2.1)	ND (<2.1)
Mercury	0.1	0.7	0.04		ND (<0.020)	0.34	0.07		0.14	ND (<0.017)	ND (<0.10)	ND (<0.10)	ND (<0.10)
Nickel	13 or SB	100	41.1	B	8.7	B	5.4	B	6.9	B	1.6	ND (<1.4)	ND (<1.4)
Selenium	2 or SB	10	ND (<0.99)	ND (<1.0)	ND (<1.0)	ND (<1.1)	ND (<0.83)	ND (<0.91)	ND (<0.88)	ND (<4.5)	ND (<4.5)	ND (<4.5)	ND (<4.5)
Silver	SB	50	ND (<0.33)	ND (<0.33)	ND (<0.33)	ND (<0.36)	ND (<0.28)	ND (<0.30)	ND (<0.29)	ND (<1.1)	ND (<1.1)	ND (<1.1)	ND (<1.1)
Thallium	SB	NS	ND (<1.1)	ND (<1.1)	ND (<1.1)	ND (<1.2)	ND (<0.93)	ND (<1.0)	ND (<0.98)	ND (<4.1)	ND (<4.1)	ND (<4.1)	ND (<4.1)
Zinc	20 or SB	NS	17.5		259	170	38.5		61.9		20.8	13.6	23.8

Notes:
 1-WR-94-4046, 1/24/94 (TAGM 4046)
 Water Quality Regulations Title 6, Chapter X, Parts 700-706 Fresh Groundwater - GA aquifers
 ppm = Parts Per Million = mg/Kg
 ppb = Parts Per Billion = ug/L
 SB = Site Background
 Metals analysis via USEPA Method SW-846 (soils) and 200 Series (water).
 ND = The spiked sample recovery is not within control limits.
 3 = The reported value is less than the Method Detection Limit but greater than or equal to the Instrument Detection limit.
 * = Duplicate analysis is not within control limits.
 Bolded entry = Sample concentration which exceeds the NYSDEC recommended action value.
 NS = No Criteria Listed in TAGM 4046 OR NYSEDES Water Quality Standards.

TABLE 5
PCBs
Sampling and Analysis Summary
REXAM DSI
Brownville, New York

Sample ID	NYSDEC Recommended Cleanup Objectives	EB-3 16-16.5 237814 10/25/00 SOLID	EB-4 1.5-2 237815 10/25/00 SOLID	EB-4 16-16.5 237839 10/25/00 SOLID	TPE-3 1.5-2.0 237820 10/25/00 SOLID	RC-1 0-0.5 237825 10/26/00 SOLID	RC-2 0-0.5 237826 10/26/00 SOLID	RC-3 0-0.5 237827 10/26/00 SOLID	RC-4 0-0.5 237828 10/26/00 SOLID	ES-1 0-0.5 237829 10/26/00 SOLID	Field Blank 237831 10/26/00 WATER
Sample Depth (feet)	ppm or mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/L
PCBs											
Aroclor-1016	1.0	ND (<0.087)	ND (<0.073)	ND (<0.073)	ND (<0.070)	ND (<0.067)	ND (<0.070)	ND (<0.072)	ND (<0.070)	ND (<0.110)	ND (<300)
Aroclor-1221	1.0	ND (<0.087)	ND (<0.073)	ND (<0.073)	ND (<0.070)	ND (<0.067)	ND (<0.070)	ND (<0.072)	ND (<0.070)	ND (<0.110)	ND (<300)
Aroclor-1232	1.0	ND (<0.087)	ND (<0.073)	ND (<0.073)	ND (<0.070)	ND (<0.067)	ND (<0.070)	ND (<0.072)	ND (<0.070)	ND (<0.110)	ND (<300)
Aroclor-1242	1.0	ND (<0.087)	ND (<0.073)	ND (<0.073)	ND (<0.070)	ND (<0.067)	ND (<0.070)	ND (<0.072)	ND (<0.070)	ND (<0.110)	ND (<200)
Aroclor-1248	1.0	ND (<0.087)	ND (<0.073)	ND (<0.073)	ND (<0.070)	ND (<0.067)	ND (<0.070)	ND (<0.072)	ND (<0.070)	ND (<0.110)	ND (<300)
Aroclor-1254	1.0	ND (<0.087)	ND (<0.073)	ND (<0.073)	ND (<0.070)	0.420	ND (<0.070)	ND (<0.072)	ND (<0.070)	ND (<0.110)	ND (<200)
Aroclor-1260	1.0	ND (<0.087)	ND (<0.073)	ND (<0.073)	ND (<0.070)	ND (<0.067)	ND (<0.070)	ND (<0.072)	ND (<0.070)	ND (<0.110)	ND (<400)
Aroclor-1262	1.0	ND (<0.087)	ND (<0.073)	ND (<0.073)	ND (<0.070)	ND (<0.067)	ND (<0.070)	ND (<0.072)	ND (<0.070)	ND (<0.110)	ND (<200)
Aroclor-1268	1.0	ND (<0.087)	ND (<0.073)	ND (<0.073)	ND (<0.070)	ND (<0.067)	ND (<0.070)	ND (<0.072)	ND (<0.070)	ND (<0.110)	ND (<200)

Notes:

ppm = mg/kg

NA = Not Applicable.

ND = Not Detected.

ND(<) = Less than the Reporting Limit.

PCB = Polychlorinated Biphenyls via USEPA Method 8082.

APPENDIX 1

Soil Boring Lithologic Logs
Purge Forms

TOTAL DEPTH: 26.9'

0			CONCRETE: 5"	0.5-		Headspace 0.5-
-1		SP	ASH: 20", FILL; granular, sandy mix coal ash, coal, cinders, crushed rock, loose, moist, brn-black, crushed concrete at base	1.0'	0	1.0' = 0
-2					0	
-3					0	
-4		GP	ASH: 14", FILL; same, 50% cinders, loose, granular, crushed concrete, brn-black		0	
-5					0	
-6		GP	GRAVEL: 7", crushed rock, Lm, to 1.5", grey brn, sugary, micritic		0	
-7					0	
-8					0	
-9		SP	ASH: 13", loose, v.moist, grey black, 50% cinders, concrete chunks		0	
-10					0	
-11					0	
-12		SP	ASH: 14", coal ash, cinders, slag, coal chips, concrete chips, loose, moist		0	
-13					0	
-14					0	
-15						
-16						
-17		SP	FILL: Hammered blank to refusal to locate top of bedrock, dry.		0	
-18						
-19						
-20						
-21						
-22						
-23						
-24						
-25						
-26						

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21 Priscilla Lane
Howell, NJ 07731

FIELD BOREHOLE LOG

BOREHOLE NO.: **EB-2**

TOTAL DEPTH: **4.1'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	Rexam DSI	DRILLING CO.:	Atlantic Testing Laboratory
SITE LOCATION:	Brownville, NY	DRILLER:	Kevin
JOB NO.:	ENV-NY	RIG TYPE:	Spatula
LOGGED BY:	S. Laney	METHOD OF DRILLING:	Spatula
PROJECT MANAGER:	Mark Roman	SAMPLING METHODS:	Spatula
DATES DRILLED:	10-25-00	HAMMER WT./DROP	NA
Notes:	In Stormwater Basin	⊖ Water level during drilling	Page 1 of 1

Page 1 of 1

DEPTH	SOIL SYMBOLS	UNIFIED	SOIL DESCRIPTION	SAMP. No.	PID ppm	COMMENTS
0			BASIN: Catchbasin 2' x 2'8" x 4'1" deep, concrete precast.			
-1						
-2						
-3						
-4		SM	SAND: 1", silty sand, brn, moist	4.0-4.1'	0	Headspace 4-4.1'=0

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FIELD BOREHOLE LOG

BOREHOLE NO.: **EB-3/PZ-1**

TOTAL DEPTH: **23.8'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	Rexam DSI	DRILLING CO.:	Atlantic Testing Laboratory
SITE LOCATION:	Brownville, NY	DRILLER:	Kevin
JOB NO.:	ENV-NY	RIG TYPE:	Geoprobe 5400
LOGGED BY:	Steve Laney	METHOD OF DRILLING:	Direct Push
PROJECT MANAGER:	Mark Roman	SAMPLING METHODS:	Clear liner, 46"x1.75"
DATES DRILLED:	10-25-00	HAMMER WT./DROP	NA
NOTES:	Historic Fill, in parking lot.	Water level during drilling Water level in completed well	Page 1 of 1

DEPTH	SOIL SYMBOLS	UNIFIED	SOIL DESCRIPTION	SAMP. No.	PID ppm	BORING COMPLETION	PIEZOMETER DESCRIPTION
0		SM	SILT: 14"; gravelly, sandy, grey, moist, loose, poorly sorted		0		
-2			ASH: 18"; mixed coal chips (5%), cinders, slag, sandy, granular, loose, s&p, grey black, v.moist base		0		
-4		SM	SILT: 12"; brn, sandy, pea gravelly, moist		0		
-6			ASH: 13"; mixed coal (5%), cinders, slag, sandy, granular, loose, grey black, s&p, sl. wet at base		0		
-8			ASH: 14"; same except v.moist, concrete chunks to 2", grey black		0		Temporary Piezometer, 1" dia. PVC riser 0-8.5'
-10					0		
-12			ASH: 18"; same, slag chunks to 2"		0		Headspace 12-12.5' = 0
-14					0		Headspace 16-16.5' = 1.9
-16			ASH: 7"; same, wet, wood chunks, soft drilling	16-16.5'	0		
-18					0		1" dia. PVC screen 8.5-23.5', 0.01"
-20			ASH: 6"; lt. grey, wet, mixed with crushed Lm, cinders		0		Headspace 20-20.5' = 1.3
-22					0		
-24			LIMESTONE: 3", crushed, wet, lt. grey black, silty, refusal.				Dry Well, let stand overnight.

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FIELD BOREHOLE LOG

BOREHOLE NO.: **EB-4**

TOTAL DEPTH: **17.5'**

PROJECT INFORMATION			DRILLING INFORMATION		
PROJECT:	Rexam DSI		DRILLING CO.:	Atlantic Testing Laboratory	
SITE LOCATION:	Brownville, NY		DRILLER:	Kevin	
JOB NO.:	ENV-NY		RIG TYPE:	Geoprobe 5400	
LOGGED BY:	S. Laney		METHOD OF DRILLING:	Direct Push	
PROJECT MANAGER:	Mark Roman		SAMPLING METHODS:	Clear liner, 46"x1.75"	
DATES DRILLED:	10-25-00		HAMMER WT./DROP	NA	
Notes:	Previous TP-1 and Historic Fill Areas		≈ Water level during drilling	Page 1 of 1	

DEPTH	SOIL SYMBOLS	UNIFIED	SOIL DESCRIPTION	SAMP. No.	PID ppm	COMMENTS
0		SM	SILT: 14"; grey to black; mixed sand, brick chips, crushed rock; 2" coal and ash in middle; clayey & v.moist at base	1.5-2.0'	0	Headspace 1.5-2.0' = 3.0
-1		SP	SAND: 18"; fill, sv.silty, grey blk, mixed crushed Lm, brick chips, cohesive, sl. clayey, v.moist 1.5-2.0'		0.5	
-2					0	
-3					0	
-4					0	
-5		SM	SILT: 4"; f.sandy, brown, sl. wet, cohesive, clean	16-16.5'	0	Headspace 5.5-6.0' = 0
-6					0	
-7					0	
-8		SP	SAND: 25"; fill, 50% crushed Lm & concrete, moist to v.moist zones, silty, brn, crumbly		0	
-9					0	
-10					0	
-11					0	
-12		SP	SAND: 22"; fill, mixed w/ crushed Lm, bn, crumbly, coarse gr., silty, layered rock & sand fill; moist to v.moist		0	
-13					0	
-14		SW	SAND: 12"; m-c gr., clean, well sorted, tr. crushed Lm, sl. wet, brn		0	Headspace 14-14.5' = 0
-15					0	
-16					0	
-17		LM	LIMESTONE: 2"; angular, grey brn; refusal.		0	

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FIELD BOREHOLE LOG

BOREHOLE NO.: **EB-5/PZ-2**

TOTAL DEPTH: **16.0'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	Rexam DSI	DRILLING CO.:	Atlantic Testing Laboratory
SITE LOCATION:	Brownville, NY	DRILLER:	Kevin
JOB NO.:	ENV-NY	RIG TYPE:	Geoprobe 5400
LOGGED BY:	S. Laney	METHOD OF DRILLING:	Direct Push
PROJECT MANAGER:	Mark Roman	SAMPLING METHODS:	Clear liner, 46"x1.75"
DATES DRILLED:	10-25-00	HAMMER WT./DROP	NA
NOTES:	By Sani. Sewer Manhole	≡ Water level during drilling ≡ Water level in completed well	Page 1 of 1

Page 1 of 1

DEPTH	SOIL SYMBOLS	UNIFIED	SOIL DESCRIPTION	SAMP. No.	PID ppm	BORING COMPLETION	PIEZOMETER DESCRIPTION
0			CONCRETE: concrete, 4"; crushed rock, 7", sandy		0		
		SW	ASH: 6", cinders, sandy, brick chips	1.2-1.7	0		Headspace 1.2-1.7' = 0
-2		ML	SAND: SAND, 7", m-c gr., brn, v. moist, well sorted		0		
			SILT: FILL, 8", mixed silt, crushed concrete & rock, wet, sandy, grey		0		Sampled 1.2-1.7; VOC & BN
-4		SP	SAND: SAND, 18", m-c gr., mixed crushed rock, brn, crumbly, moist		0		
		GW	GRAVEL: Crushed rock, 6", Lm, clean, loose		0		
-6		SM	SILT: FILL, 8", sandy, mixed rock, silty, grey brn, cohesive		0		Headspace 6-6.5 = 0
		SM	SILT: Silt, 16", grey brn, f. sandy, v. clayey, tight, well sorted, clean		0		
-8		OH	SILT: Silt, 18", grey, v. clayey, tight, sticky, f. sandy, tr. roots and organic zones, tr. brick		0		Temporary Piezometer 0-16', 1" .01" screen
-10		ML	SILT: Silt, 30", lt. grey, v. clayey, wet, f. sandy, sticky, tr. rock chips.		0		
-12							
-14							
-16							

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FIELD BOREHOLE LOG

BOREHOLE NO.: **EB-6**

TOTAL DEPTH: **0.5'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	Rexam DSI	DRILLING CO.:	Atlantic Testing Laboratory
SITE LOCATION:	Brownville, NY	DRILLER:	Kevin
JOB NO.:	ENV-NY	RIG TYPE:	Spatula
LOGGED BY:	S. Laney	METHOD OF DRILLING:	Spatula
PROJECT MANAGER:	Mark Roman	SAMPLING METHODS:	Spatula
DATES DRILLED:	10-25-00	HAMMER WT./DROP	NA
Notes: Warehouse Outfall		☒ Water level during drilling	Page 1 of 1

DEPTH	SOIL SYMBOLS	UNIFIED	SOIL DESCRIPTION	SAMP. No.	PID ppm	COMMENTS
0		SM	SILT: 6"; loamy, tr. glass shards, metal chips, sandy, brn, rootlets, dry, loose.			
			: Outfall from floor drain in warehouse to Philomel Creek. Outfall is 70' N of SE corner of warehouse and 30" below top of foundation slab. Steel pipe is 6" diameter and filled with concrete. Thin metal plate is located under pipe. Sediment above plate was sampled for VOC & BN.	0-0.5'	0	

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Howell, NJ 07731

FIELD BOREHOLE LOG

BOREHOLE NO.: **TPE-1**

TOTAL DEPTH: **4.0'**

PROJECT INFORMATION

PROJECT: **Rexam DSI**
 SITE LOCATION: **Brownville, NY**
 JOB NO.: **ENV-NY**
 LOGGED BY: **A. Uminski**
 PROJECT MANAGER: **Mark Roman**
 DATES DRILLED: **10-25-00**

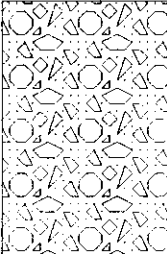
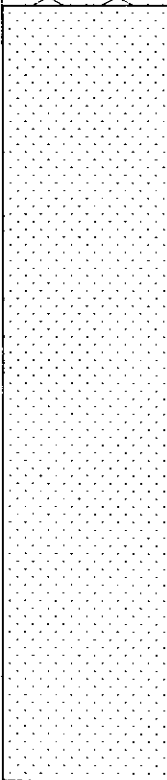
DRILLING INFORMATION

DRILLING CO.: **Keller Drilling Co.**
 DRILLER: **Keller**
 RIG TYPE: **Bobcat 328**
 METHOD OF DRILLING: **Excavation**
 SAMPLING METHODS: **Spatula**
 HAMMER WT./DROP **NA**

Notes: **Water Flume, east end**

⊗ Water level during drilling

Page 1 of 1

DEPTH	SOIL SYMBOLS	UNIFIED	SOIL DESCRIPTION	SAMP. No.	PID ppm	COMMENTS
0		SP	GRAVEL: 12"; fill, silty, concrete chunks to 12", red bricks, gravelly, sandy			
-1		SP	SAND: 36"; gravelly, light brown, coarse gr., rounded gravel to 1", moist, no odor; 30" steel stormwater culvert bedded in sand in the historic water flume. Sample collected from below culvert (3-3.5).		0	
-2					0	
-3				3-3.5'	0	Sampled for VOC & BN
-4						

ENVISION ENVIRONMENTAL, INC.
21 Priscilla Lane
Howell, NJ 07731

FIELD BOREHOLE LOG

BOREHOLE NO.: **TPE-2**

TOTAL DEPTH: **5.0'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	Rexam DSI	DRILLING CO.:	Keller Drilling Co.
SITE LOCATION:	Brownville, NY	DRILLER:	Keller
JOB NO.:	ENV-NY	RIG TYPE:	Bobcat 328
LOGGED BY:	A. Uminski	METHOD OF DRILLING:	Excavation
PROJECT MANAGER:	Mark Roman	SAMPLING METHODS:	Spatula
DATES DRILLED:	10-25-00	HAMMER WT./DROP	NA
Notes: Water flume, west end		☒ Water level during drilling	Page 1 of 1

DEPTH	SOIL SYMBOLS	UNIFIED	SOIL DESCRIPTION	SAMP. No.	PID ppm	COMMENTS
0		SP	SAND: 24"; FILL, red bricks (50%), silty sand (50%); f-m gr., moist, no odor		0	
-1						
-2		SP	SAND: 36"; Fill, silty, cinders, bricks, concrete blocks, steel pipes; 30" steel stormwater culvert bedded in water flume; sampled silty sand beneath pipe; 4-4.5' below grade.		0	
-3					0	
-4				4-4.5'	0	Sampled for VOC & BN
-5						

ENVISION ENVIRONMENTAL, INC.
 21 Priscilla Lane
 Howell, NJ 07731

FIELD BOREHOLE LOG

BOREHOLE NO.: **TPE-3**

TOTAL DEPTH: **12.0'**

PROJECT INFORMATION

PROJECT: **Rexam DSI**
 SITE LOCATION: **Brownville, NY**
 JOB NO.: **ENV-NY**
 LOGGED BY: **A. Uminski**
 PROJECT MANAGER: **Mark Roman**
 DATES DRILLED: **10-25-00**

DRILLING INFORMATION

DRILLING CO.: **Keller Drilling Co.**
 DRILLER: **Keller**
 RIG TYPE: **Bobcat 328**
 METHOD OF DRILLING: **Excavation**
 SAMPLING METHODS: **Spatula**
 HAMMER WT./DROP **NA**

Notes: **Historic Fill, NW corner Parking Lot**

≈ Water level during drilling

Page 1 of 1

DEPTH	SOIL SYMBOLS	UNIFIED	SOIL DESCRIPTION	SAMP. No.	PID ppm	COMMENTS
0		SP	SAND: 6"; Fill, 3/4" angular Lm mixed with sand			
-1		SP	SAND: 12"; Fill, f-m gr., tan, moist		0	
-2		CL	CLAY: 18"; Fill, silty, v.moist, light grey	1.5-2.0'	0	Sampled for VOC, BN & PPM.
-3		SP	SAND: 24"; Fill, f-m gr., tan, no odor, mixed with concrete, rebar		0	
-4					0	
-5		SP	SAND: 24"; Fill, f-m gr., steel wire, sheet metal, moist, no odor		0	
-6					0	
-7		SP	SAND: 24"; Fill, f-m gr., tan, moist, no odor, concrete blocks		0	
-8					0	
-9		SP	SAND: 36"; Fill, f-m gr. large concrete slabs, moist, no odor.		0	
-10					0	
-11					0	

HYDRO-GEO CORPORATION
Monitoring Well Purge Data
& Physical Parameters

Client: **REXAM-DSI BROWNVILLE, NY**

Date: **10-25-00**

Well ID: **PZ-2**

Personnel: **STEVE LANCEY / ALAN UMINSKI**

Initial PID (ppm) = **0.0**

Depth to Product from Top of Casing (ft) : **NONE**

Casing Diameter = **1 inch**

Product thickness : **NONE**

Total Depth of Well from Top of Casing (ft) **16'09" = 17.06**

Depth to Water from Top of Casing (ft) **8.02'09" = 9.02**

Purge Start Time : **1617**

Water Column Thickness = **7.98**

Purge End Time : **1647**

Conversion = _____

Sample Collection Time : **1650**

Estimate of 3 well Volumes to purge (gal) = **1 GAL**

Sampling Method : **BAILER**

Prepurge			Temp.	Elec. Cond					
Water level	Time	Gallons	*F or *C	mS or uS	pH	DO (ppm)	Purge rate	Comments	Eh - ORP
		0					0		
During Purge									
End of Purge									
		~~2.5~~ 3 GAL	14.2	1.35	7.09	2.53	0.1 gpm	SAL = 0.1 TDS = 0.99/R	-117 mV
Recovery Data									
CONVERSIONS									
2" = 0.16 gal/ft									
4" = 0.65 gal/ft									
6" = 1.46 gal/ft									

HYDRO-GEO CORPORATION **Monitoring Well Purge Data** **& Physio-Chemical Parameters**

Client: RexAm-DSI
 Well ID: R1 MW-1 Installed 8-9-93
 Initial PID (ppm) = 0
 Casing Diameter = 6"

Date: 10-25-00
 Personnel: AHU
 Depth to Product from Top of Casing (ft) :
 Product thickness : NONE

Total Depth of Well from Top of Casing (ft) (snickup) = 75.2
 Depth to Water from Top of Casing (ft) = 42.0
 Water Column Thickness = 33.2'
 Conversion = $\frac{33.2' \times 3}{1.46} = 145.6 \text{ AL}$
 Estimate of 3 well Volumes to purge (gal) = Q = 3-5 gpm

Purge Start Time : 1540
 Purge End Time : 1620
 Sample Collection Time : 1625
 Sampling Method : BAUER

Prepurge		Purge rate	Temp.	Elec Cond	pH	Diss. Oxy.	Salinity	
Water level	Time	Gallons	gal/min	*F or *C	µS or mS	Stand. Units	(ppm)	Comments
<u>42.0</u>	<u>1500</u>	<u>0</u>	<u>0</u>					<u>TDS</u> <u>Turb</u> <u>ORP</u> <u>mV</u>
During Purge								
	<u>1542</u>	<u>10</u>		<u>10.36</u>	<u>1.06</u>	<u>6.86</u>	<u>4.2</u>	<u>0.0</u> <u>0.8</u> <u>54.5</u> <u>18.0</u>
	<u>1550</u>	<u>50</u>		<u>10.40</u>	<u>1.17</u>	<u>6.90</u>	<u>3.55</u>	<u>0.1</u> <u>.51</u> <u>20.0</u> <u>17.3</u>
	<u>1610</u>			<u>10.42</u>	<u>0.65</u>	<u>7.32</u>	<u>0.62</u>	<u>0.0</u> <u>.44</u> <u>18.1</u> <u>4</u>
	<u>1620</u>	<u>150</u>		<u>10.23</u>	<u>0.62</u>	<u>7.38</u>	<u>0.00</u>	<u>0.0</u> <u>0.40</u> <u>6.5</u> <u>-53</u>
End of Purge								
<u>66-3'</u>								
Recovery Data								
CONVERSIONS								
2"= 0.16 gal/ft								
4"= 0.65 gal/ft								
6"= 1.46 gal/ft								

APPENDIX 2

Laboratory Analytical Report



STL Edison

777 New Durham Road
Edison, NJ 08817

November 17, 2000

Tel: 732-549-3900

Fax: 732-549-3679

www.stl-inc.com

Hydro-Geo Corporation
719 Route 206
Suite 106
Belle Mead, NJ 08502

Attention: Mr. Stephen Laney

Re: F104 - Rexam DSI

Dear Mr. Laney:

Enclosed are the results you requested for the following sample(s) received at our laboratory on October 27, 2000:

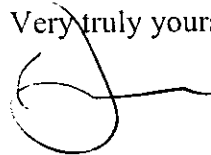
<u>Lab No.</u>	<u>Client ID</u>	<u>Analysis Required</u>
237812	EB-1_6-12	PP VOA+15 PP BN+15 PP Metals
237813	EB-2_Catch_Basin	PP VOA+15 PP BN+15 PP Metals
237814	EB-3_16-16.5	PP VOA+15 PP BN+15 PCBs PP Metals
237815	EB-4_1.5-2	PP VOA+15 PP BN+15 PCBs PP Metals

<u>Lab No.</u>	<u>Client ID</u>	<u>Analysis Required</u>
237816	EB-5_1.2-1.7	PP VOA+15 PP BN+15
237817	EB-6_Outfall	PP VOA+15 PP BN+15
237818	TPE-1	PP VOA+15 PP BN+15
237819	TPE-2	PP VOA+15 PP BN+15
237820	TPE-3	PP VOA+15 PP BN+15 PCBs PP Metals
237821	MW-1	PP VOA+15 PP BN+15 PP Metals
237822	PZ-2	PP VOA+15 PP BN+15 PP Metals
237823	Trip_Blank-1	PP VOA+15
237824	Field_Blank-1025	PP VOA+15 PP BN+15 PP Metals
237825	RC-1_2nd_Flr	PP VOA+15 PP BN+15 PCBs
237826	RC-2_3rd_Flr	PP VOA+15 PP BN+15 PCBs

<u>Lab No.</u>	<u>Client ID</u>	<u>Analysis Required</u>
237827	RC-3_3rd_Flr	PP VOA+15 PP BN+15 PCBs
237828	RC-4_4th_Flr	PP VOA+15 PP BN+15 PCBs
237829	ES-1_ElShaft_4th	PP VOA+15 PP BN+15 PCBs
237830	Trip_Blank-2	PP VOA+15
237831	Field_Blank-1026	PP VOA+15 PP BN+15 PCBs
237839	EB-4_16-16.5	PP VOA+15 PP BN+15 PCBs PP Metals

If you have any questions please contact your Project Manager, Kim Norton, at (732) 549-3900.

Very truly yours,



Michael J. Urban
Laboratory Manager

TABLE OF CONTENTS

	<u>Section</u>	<u>Page</u>	<u>Volume</u>
Analytical Results Summary	1	1	1
General Information	2		1
Chain of Custody		120	
Laboratory Chronicles		123	
Methodology Review		142	
Data Reporting Qualifiers		145	
Non-Conformance Summary		146	
GC/MS Forms and Data (Volatiles)	3		1
Results Summary and Chromatograms		148	
Tuning Results Summary		364	
Method Blank Results Summary		392	
Calibration Summary		435	
Surrogate Compound Recovery Summary		465	
Spike Recovery Summary		468	
Internal Standard Area Summary		474	
GC/MS Forms and Data (Semivolatiles)	4		2
Results Summary and Chromatograms		480	
Tuning Results Summary		907	
Method Blank Results Summary		972	
Calibration Summary		1003	
Surrogate Compound Recovery Summary		1045	
Spike Recovery Summary		1047	
Internal Standard Area Summary		1050	

TABLE OF CONTENTS

	<u>Section</u>	<u>Page</u>	<u>Volume</u>
GC Forms and Data	5		3
Method 608 (Pesticides/PCBs)			
Results Summary		1064	
QA Summary		1065	
Analytical Sequence		1070	
Raw Data		1071	
Method 8082 (PCBs)			
Results Summary		1103	
QA Summary		1112	
Analytical Sequence		1121	
Raw Data		1123	
Metals Forms and Data	6		3
Analytical Results Summary		1277	
Blank Results Summary		1287	
Calibration Summary		1292	
ICP Interference Check Results Summary		1299	
Spike Sample Recovery Summary		1302	
Sample and MS Duplicate Results Summary		1308	
Laboratory Control Sample Results Summary		1313	
Serial Dilution Summary		1315	
Analysis Run Log		1317	

Client ID: **EB-1_6-12**
 Site: Rexam DSI

Lab Sample No: **237812**
 Lab Job No: F104

Date Sampled: 10/25/00
 Date Received: 10/27/00
 Date Analyzed: 10/29/00
 GC Column: DB624
 Instrument ID: VOAMS1.i
 Lab File ID: a10441.d

Matrix: SOIL
 Level: LOW
 Sample Weight: 5.0 g
 Purge Volume: 5.0 ml
 % Moisture: 15

VOLATILE ORGANICS - GC/MS
METHOD 8260B

<u>Parameter</u>	<u>Analytical Results</u> <u>Units: ug/kg</u> <u>(Dry Weight)</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/kg</u>
Chloromethane	ND	5.8
Bromomethane	ND	5.8
Vinyl Chloride	ND	5.8
Chloroethane	ND	5.8
Methylene Chloride	0.8JB	3.5
Trichlorofluoromethane	ND	5.8
1,1-Dichloroethene	ND	2.3
1,1-Dichloroethane	ND	5.8
trans-1,2-Dichloroethene	ND	5.8
cis-1,2-Dichloroethene	ND	5.8
Chloroform	ND	5.8
1,2-Dichloroethane	ND	2.3
1,1,1-Trichloroethane	ND	5.8
Carbon Tetrachloride	ND	2.3
Bromodichloromethane	ND	1.2
1,2-Dichloropropane	ND	1.2
cis-1,3-Dichloropropene	ND	5.8
Trichloroethene	ND	1.2
Dibromochloromethane	ND	5.8
1,1,2-Trichloroethane	ND	3.5
Benzene	0.9J	1.2
trans-1,3-Dichloropropene	ND	5.8
2-Chloroethyl Vinyl Ether	ND	5.8
Bromoform	ND	4.7
Tetrachloroethene	ND	1.2
1,1,2,2-Tetrachloroethane	ND	1.2
Toluene	3.3J	5.8
Chlorobenzene	ND	5.8
Ethylbenzene	ND	4.7
Xylene (Total)	3.6J	5.8

Client ID: EB-1_6-12
 Site: Rexam DSI

Lab Sample No: 237812
 Lab Job No: F104

Date Sampled: 10/25/00
 Date Received: 10/27/00
 Date Analyzed: 10/29/00
 GC Column: DB624
 Instrument ID: VOAMS1.i
 Lab File ID: a10441.d

Matrix: SOIL
 Level: LOW
 Sample Weight: 5.0 g
 Purge Volume: 5.0 ml
 % Moisture: 15.0

VOLATILE ORGANICS - GC/MS
 TENTATIVELY IDENTIFIED COMPOUNDS
 METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. Unknown	3.93	16	
2. Cyclohexane, methyl-	10.85	8.5	
3. Unknown Siloxane	16.87	16	
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

40

Client ID: EB-16-12
Site: Rexam DSI

Lab Sample No: 237812
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/30/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: 13255.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 15

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

<u>Parameter</u>	<u>Analytical Results</u> <u>Units: ug/kg</u> <u>(Dry Weight)</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/kg</u>
N-Nitrosodimethylamine	ND	390
bis(2-Chloroethyl) ether	ND	39
1,3-Dichlorobenzene	ND	390
1,4-Dichlorobenzene	ND	390
1,2-Dichlorobenzene	ND	390
bis(2-chloroisopropyl) ether	ND	390
N-Nitroso-di-n-propylamine	ND	39
Hexachloroethane	ND	39
Nitrobenzene	ND	39
Isophorone	ND	390
bis(2-Chloroethoxy) methane	ND	390
1,2,4-Trichlorobenzene	ND	39
Naphthalene	ND	390
Hexachlorobutadiene	ND	78
Hexachlorocyclopentadiene	ND	390
2-Chloronaphthalene	ND	390
Dimethylphthalate	ND	390
Acenaphthylene	ND	390
2,6-Dinitrotoluene	ND	78
Acenaphthene	ND	390
2,4-Dinitrotoluene	ND	78
Diethylphthalate	ND	390
4-Chlorophenyl-phenylether	ND	390
Fluorene	ND	390
N-Nitrosodiphenylamine	ND	390
4-Bromophenyl-phenylether	ND	390
Hexachlorobenzene	ND	39
Phenanthrene	63 J	390
Anthracene	ND	390
Di-n-butylphthalate	ND	390
Fluoranthene	42 J	390
Pyrene	43 J	390
Benzidine	ND	1600
Butylbenzylphthalate	ND	390

Client ID: EB-1_6-12
 Site: Rexam DSI

Lab Sample No: 237812
 Lab Job No: F104

Date Sampled: 10/25/00
 Date Received: 10/27/00
 Date Extracted: 10/28/00
 Date Analyzed: 10/30/00
 GC Column: DB-5
 Instrument ID: BNAMS7.i
 Lab File ID: 13255.d

Matrix: SOIL
 Level: LOW
 Sample Weight: 30.0 g
 Extract Final Volume: 2.0 ml
 Dilution Factor: 1.0
 % Moisture: 15

SEMI-VOLATILE ORGANICS - GC/MS
 METHOD 8270C

<u>Parameter</u>	<u>Analytical Results</u> <u>Units: ug/kg</u> <u>(Dry Weight)</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/kg</u>
3,3'-Dichlorobenzidine	ND	780
Benzo(a)anthracene	ND	39
Chrysene	70 J	390
bis(2-Ethylhexyl)phthalate	ND	390
Di-n-octylphthalate	ND	390
Benzo(b)fluoranthene	30 J	39
Benzo(k)fluoranthene	ND	39
Benzo(a)pyrene	8.8J	39
Indeno(1,2,3-cd)pyrene	ND	39
Dibenz(a,h)anthracene	ND	39
Benzo(g,h,i)perylene	8.9J	390

Client ID: EB-1_6-12
Site: Rexam DSI

Lab Sample No: 237812
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/30/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: 13255.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 15.0

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. C16H14 PAH	22.52	400	
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

400

Client ID: EB-1 6-12
Site: Rexam DSI

Lab Sample No: 237812
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00

Matrix: SOLID
Level: LOW
% Moisture: 15.0

METALS ANALYSIS

<u>Analyte</u>	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	<u>Qual</u>	<u>M</u>
Antimony	ND	1.4	N	P
Arsenic	9.9	0.75		P
Beryllium	0.59	0.071		P
Cadmium	ND	0.094		P
Chromium	6.4	0.38		P
Copper	12.2	0.87	*	P
Lead	9.6	0.54	*	P
Mercury	0.04	0.020	B	CV
Nickel	41.1	0.38		P
Selenium	ND	0.99		P
Silver	ND	0.33		P
Thallium	ND	1.1		P
Zinc	17.5	1.4		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: EB-2_Catch_Basin
Site: Rexam DSI

Lab Sample No: 237813
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Analyzed: 10/29/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10454.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.4 g
Purge Volume: 5.0 ml
% Moisture: 16

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Chloromethane	ND	5.5
Bromomethane	ND	5.5
Vinyl Chloride	ND	5.5
Chloroethane	ND	5.5
Methylene Chloride	ND	3.3
Trichlorofluoromethane	ND	5.5
1,1-Dichloroethene	ND	2.2
1,1-Dichloroethane	ND	5.5
trans-1,2-Dichloroethene	ND	5.5
cis-1,2-Dichloroethene	ND	5.5
Chloroform	ND	5.5
1,2-Dichloroethane	ND	2.2
1,1,1-Trichloroethane	ND	5.5
Carbon Tetrachloride	ND	2.2
Bromodichloromethane	ND	1.1
1,2-Dichloropropane	ND	1.1
cis-1,3-Dichloropropene	ND	5.5
Trichloroethene	ND	1.1
Dibromochloromethane	ND	5.5
1,1,2-Trichloroethane	ND	3.3
Benzene	0.9J	1.1
trans-1,3-Dichloropropene	ND	5.5
2-Chloroethyl Vinyl Ether	ND	5.5
Bromoform	ND	4.4
Tetrachloroethene	ND	1.1
1,1,2,2-Tetrachloroethane	ND	1.1
Toluene	1.4J	5.5
Chlorobenzene	ND	5.5
Ethylbenzene	ND	4.4
Xylene (Total)	0.6J	5.5

Client ID: EB-2_Catch_Basin
Site: Rexam DSI

Lab Sample No: 237813
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Analyzed: 10/29/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10454.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.4 g
Purge Volume: 5.0 ml
% Moisture: 16.3

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. Hexanal	12.92	7.5	
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
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27.			
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30.			

TOTAL ESTIMATED CONCENTRATION

7.5

Client ID: EB-2_Catch_Basin
Site: Rexam DSI

Lab Sample No: 237813
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/30/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: 13259.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 16

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

<u>Parameter</u>	<u>Analytical Results</u> <u>Units: ug/kg</u> <u>(Dry Weight)</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/kg</u>
N-Nitrosodimethylamine	ND	400
bis(2-Chloroethyl) ether	ND	40
1,3-Dichlorobenzene	ND	400
1,4-Dichlorobenzene	ND	400
1,2-Dichlorobenzene	ND	400
bis(2-chloroisopropyl) ether	ND	400
N-Nitroso-di-n-propylamine	ND	40
Hexachloroethane	ND	40
Nitrobenzene	ND	40
Isophorone	ND	400
bis(2-Chloroethoxy) methane	ND	400
1,2,4-Trichlorobenzene	ND	40
Naphthalene	ND	400
Hexachlorobutadiene	ND	80
Hexachlorocyclopentadiene	ND	400
2-Chloronaphthalene	ND	400
Dimethylphthalate	ND	400
Acenaphthylene	12 J	400
2,6-Dinitrotoluene	ND	80
Acenaphthene	12 J	400
2,4-Dinitrotoluene	ND	80
Diethylphthalate	ND	400
4-Chlorophenyl-phenylether	ND	400
Fluorene	23 J	400
N-Nitrosodiphenylamine	ND	400
4-Bromophenyl-phenylether	ND	400
Hexachlorobenzene	ND	40
Phenanthrene	160 J	400
Anthracene	31 J	400
Di-n-butylphthalate	95 J	400
Fluoranthene	350 J	400
Pyrene	360 J	400
Benzidine	ND	1600
Butylbenzylphthalate	ND	400

Client ID: EB-2_Catch_Basin
 Site: Rexam DSI

Lab Sample No: 237813
 Lab Job No: F104

Date Sampled: 10/25/00
 Date Received: 10/27/00
 Date Extracted: 10/28/00
 Date Analyzed: 10/30/00
 GC Column: DB-5
 Instrument ID: BNAMS7.i
 Lab File ID: 13259.d

Matrix: SOIL
 Level: LOW
 Sample Weight: 30.0 g
 Extract Final Volume: 2.0 ml
 Dilution Factor: 1.0
 % Moisture: 16

SEMI-VOLATILE ORGANICS - GC/MS
 METHOD 8270C

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>	
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u> <u>Units: ug/kg</u>	
3,3'-Dichlorobenzidine		ND		800
Benzo(a)anthracene		160		40
Chrysene		300 J		400
bis(2-Ethylhexyl)phthalate		450		400
Di-n-octylphthalate		280 J		400
Benzo(b)fluoranthene		380		40
Benzo(k)fluoranthene		200		40
Benzo(a)pyrene		160		40
Indeno(1,2,3-cd)pyrene		68		40
Dibenz(a,h)anthracene		ND		40
Benzo(g,h,i)perylene		69 J		400

Client ID: EB-2_Catch_Basin
Site: Rexam DSI

Lab Sample No: 237813
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/30/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: 13259.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 16.3

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. Unknown Alkane	22.66	4100	
2. Unknown Alkane	24.39	7000	
3. Unknown	24.39	8000	
4. Unknown Alkane	24.92	3900	
5. Unknown Alkane	26.32	7500	
6. Unknown	27.37	7400	
7. Unknown	27.58	7400	
8. Unknown Alkane	28.22	17000	
9. Unknown	30.07	8900	
10. Unknown Alkane	30.95	16000	
11. Vitamin E	31.68	11000	
12. Unknown Alkane/Unknown	33.39	14000	
13. .beta.-Amyrin	37.32	7400	
14. Unknown	37.54	5600	
15. Unknown	38.61	12000	
16.			
17.			
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TOTAL ESTIMATED CONCENTRATION

137200

Client ID: EB-2 Catch Basin
 Site: Rexam DSI

Lab Sample No: 237813
 Lab Job No: F104

Date Sampled: 10/25/00
 Date Received: 10/27/00

Matrix: SOLID
 Level: LOW
 % Moisture: 16.3

METALS ANALYSIS

<u>Analyte</u>	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	<u>Qual</u>	<u>M</u>
Antimony	ND	1.4	N	P
Arsenic	0.87	0.76	B	P
Beryllium	0.20	0.072	B	P
Cadmium	ND	0.096		P
Chromium	14.0	0.38		P
Copper	15.3	0.88	*	P
Lead	12.4	0.55	*	P
Mercury	ND	0.020		CV
Nickel	8.7	0.38	B	P
Selenium	ND	1.0		P
Silver	ND	0.33		P
Thallium	ND	1.1		P
Zinc	259	1.4		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
 M Column - Method Code (See Section 2 of Report)

Client ID: EB-3_16-16.5
Site: Rexam DSI

Lab Sample No: 237814
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Analyzed: 10/29/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10455.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.0 g
Purge Volume: 5.0 ml
% Moisture: 23

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Chloromethane	ND	6.5
Bromomethane	ND	6.5
Vinyl Chloride	ND	6.5
Chloroethane	ND	6.5
Methylene Chloride	1.5JB	3.9
Trichlorofluoromethane	3.7J	6.5
1,1-Dichloroethene	ND	2.6
1,1-Dichloroethane	ND	6.5
trans-1,2-Dichloroethene	ND	6.5
cis-1,2-Dichloroethene	ND	6.5
Chloroform	ND	6.5
1,2-Dichloroethane	ND	2.6
1,1,1-Trichloroethane	ND	6.5
Carbon Tetrachloride	ND	2.6
Bromodichloromethane	ND	1.3
1,2-Dichloropropane	ND	1.3
cis-1,3-Dichloropropene	ND	6.5
Trichloroethene	ND	1.3
Dibromochloromethane	ND	6.5
1,1,2-Trichloroethane	ND	3.9
Benzene	19	1.3
trans-1,3-Dichloropropene	ND	6.5
2-Chloroethyl Vinyl Ether	ND	6.5
Bromoform	ND	5.2
Tetrachloroethene	ND	1.3
1,1,2,2-Tetrachloroethane	ND	1.3
Toluene	18	6.5
Chlorobenzene	ND	6.5
Ethylbenzene	1.8J	5.2
Xylene (Total)	31	6.5

Client ID: EB-3_16-16.5
Site: Rexam DSI

Lab Sample No: 237814
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Analyzed: 10/29/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10455.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.0 g
Purge Volume: 5.0 ml
% Moisture: 23.1

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. Hexanal	12.92	30	
2. Trimethylbenzene isomer	15.42	21	
3. Trimethylbenzene isomer	15.83	28	
4. 2,3-dihydro-1H-Indene/C10H14 Aromatic	16.56	11	
5. C9H8 Aromatic	16.81	15	
6. Unknown Aromatic	17.41	12	
7. Unknown Aromatic	17.54	6.8	
8. Naphthalene	18.85	280	
9. Benzo thiophene Isomer	19.01	13	
10. Methyl naphthalene isomer	20.32	9.1	
11.			
12.			
13.			
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26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

426

Client ID: EB-3 16-16.5
 Site: Rexam DSI

Lab Sample No: 237814
 Lab Job No: F104

Date Sampled: 10/25/00
 Date Received: 10/27/00
 Date Extracted: 10/28/00
 Date Analyzed: 11/01/00
 GC Column: DB-5
 Instrument ID: BNAMS7.i
 Lab File ID: 13292.d

Matrix: SOIL
 Level: LOW
 Sample Weight: 30.0 g
 Extract Final Volume: 2.0 ml
 Dilution Factor: 5.0
 % Moisture: 23

SEMI-VOLATILE ORGANICS - GC/MS
 METHOD 8270C

Parameter	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
N-Nitrosodimethylamine	ND	2200
bis(2-Chloroethyl) ether	ND	220
1,3-Dichlorobenzene	ND	2200
1,4-Dichlorobenzene	ND	2200
1,2-Dichlorobenzene	ND	2200
bis(2-chloroisopropyl) ether	ND	2200
N-Nitroso-di-n-propylamine	ND	220
Hexachloroethane	ND	220
Nitrobenzene	ND	220
Isophorone	ND	2200
bis(2-Chloroethoxy) methane	ND	2200
1,2,4-Trichlorobenzene	ND	220
Naphthalene	2300	2200
Hexachlorobutadiene	ND	430
Hexachlorocyclopentadiene	ND	2200
2-Chloronaphthalene	ND	2200
Dimethylphthalate	ND	2200
Acenaphthylene	850 J	2200
2,6-Dinitrotoluene	ND	430
Acenaphthene	250 J	2200
2,4-Dinitrotoluene	ND	430
Diethylphthalate	ND	2200
4-Chlorophenyl-phenylether	ND	2200
Fluorene	850 J	2200
N-Nitrosodiphenylamine	ND	2200
4-Bromophenyl-phenylether	ND	2200
Hexachlorobenzene	ND	220
Phenanthrene	12000	2200
Anthracene	770 J	2200
Di-n-butylphthalate	ND	2200
Fluoranthene	12000	2200
Pyrene	9200	2200
Benzidine	ND	8700
Butylbenzylphthalate	ND	2200

Client ID: EB-3_16-16.5
 Site: Rexam DSI

Lab Sample No: 237814
 Lab Job No: F104

Date Sampled: 10/25/00
 Date Received: 10/27/00
 Date Extracted: 10/28/00
 Date Analyzed: 11/01/00
 GC Column: DB-5
 Instrument ID: BNAMS7.i
 Lab File ID: 13292.d

Matrix: SOIL
 Level: LOW
 Sample Weight: 30.0 g
 Extract Final Volume: 2.0 ml
 Dilution Factor: 5.0
 % Moisture: 23

SEMI-VOLATILE ORGANICS - GC/MS
 METHOD 8270C

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u> <u>Units: ug/kg</u>
3,3'-Dichlorobenzidine	ND		4300
Benzo(a)anthracene	3200		220
Chrysene	3700		2200
bis(2-Ethylhexyl)phthalate	ND		2200
Di-n-octylphthalate	ND		2200
Benzo(b)fluoranthene	4000		220
Benzo(k)fluoranthene	1700		220
Benzo(a)pyrene	2800		220
Indeno(1,2,3-cd)pyrene	1300		220
Dibenz(a,h)anthracene	260		220
Benzo(g,h,i)perylene	1400 J		2200

Client ID: EB-3_16-16.5
 Site: Rexam DSI

Lab Sample No: 237814
 Lab Job No: F104

Date Sampled: 10/25/00
 Date Received: 10/27/00
 Date Extracted: 10/28/00
 Date Analyzed: 11/01/00
 GC Column: DB-5
 Instrument ID: BNAMS7.i
 Lab File ID: 13292.d

Matrix: SOIL
 Level: LOW
 Sample Weight: 30.0 g
 Extract Final Volume: 2.0 ml
 Dilution Factor: 5.0
 % Moisture: 23.1

SEMI-VOLATILE ORGANICS - GC/MS
 TENTATIVELY IDENTIFIED COMPOUNDS
 METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. 5-Pentyl-1,3-benzenediol	20.22	2300	
2. Unknown Alkane	23.75	2000	
3. Unknown Alkane	24.32	3100	
4. Unknown Alkane	24.89	5500	
5. Unknown Alkane	25.52	4100	
6. Unknown	25.97	2300	
7. Unknown Alkane	26.25	3600	
8. Unknown Alkane	27.10	3300	
9. Unknown Alkane	28.11	4500	
10. C20H12 PAH	28.62	2600	
11. Unknown Alkane	29.32	2400	
12. Unknown	31.16	2600	
13. Unknown Alkane/Unknown	32.56	3800	
14. Unknown Sterol	35.80	2700	
15. Unknown	37.09	3700	
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

48500

Client ID: EB-3_16-16.5
Site: Rexam DSI

Lab Sample ID: 237814
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/29/00
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC5.i
Front File ID: pf026321.d
Rear File ID: pr026321.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 23

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>	
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u>	<u>Column</u>
			<u>Units: ug/kg</u>	
Aroclor-1016	ND		87	R
Aroclor-1221	ND		87	R
Aroclor-1232	ND		87	R
Aroclor-1242	ND		87	R
Aroclor-1248	ND		87	R
Aroclor-1254	ND		87	R
Aroclor-1260	ND		87	R
Aroclor-1262	ND		87	R
Aroclor-1268	ND		87	R

Client ID: EB-3 16-16.5
 Site: Rexam DSI

Lab Sample No: 237814
 Lab Job No: F104

Date Sampled: 10/25/00
 Date Received: 10/27/00

Matrix: SOLID
 Level: LOW
 % Moisture: 23.1

METALS ANALYSIS

<u>Analyte</u>	Analytical Result Units: mg/kg <u>(Dry Weight)</u>	Instrument Detection <u>Limit</u>	<u>Qual</u>	<u>M</u>
Antimony	ND	1.5	N	P
Arsenic	5.1	0.83		P
Beryllium	0.29	0.078	B	P
Cadmium	ND	0.10		P
Chromium	5.7	0.42		P
Copper	35.5	0.96	*	P
Lead	33.3	0.60	*	P
Mercury	0.34	0.022		CV
Nickel	13.7	0.42		P
Selenium	ND	1.1		P
Silver	ND	0.36		P
Thallium	ND	1.2		P
Zinc	170	1.5		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
 M Column - Method Code (See Section 2 of Report)

Client ID: EB-4 1.5-2
Site: Rexam DSI

Lab Sample No: 237815
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Analyzed: 10/30/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10463.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.8 g
Purge Volume: 5.0 ml
% Moisture: 8

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Chloromethane	ND	4.6
Bromomethane	ND	4.6
Vinyl Chloride	ND	4.6
Chloroethane	ND	4.6
Methylene Chloride	ND	2.8
Trichlorofluoromethane	ND	4.6
1,1-Dichloroethene	ND	1.9
1,1-Dichloroethane	ND	4.6
trans-1,2-Dichloroethene	ND	4.6
cis-1,2-Dichloroethene	ND	4.6
Chloroform	ND	4.6
1,2-Dichloroethane	ND	1.9
1,1,1-Trichloroethane	ND	4.6
Carbon Tetrachloride	ND	1.9
Bromodichloromethane	ND	0.9
1,2-Dichloropropane	ND	0.9
cis-1,3-Dichloropropene	ND	4.6
Trichloroethene	ND	0.9
Dibromochloromethane	ND	4.6
1,1,2-Trichloroethane	ND	2.8
Benzene	ND	0.9
trans-1,3-Dichloropropene	ND	4.6
2-Chloroethyl Vinyl Ether	ND	4.6
Bromoform	ND	3.7
Tetrachloroethene	ND	0.9
1,1,2,2-Tetrachloroethane	ND	0.9
Toluene	0.6J	4.6
Chlorobenzene	ND	4.6
Ethylbenzene	ND	3.7
Xylene (Total)	ND	4.6

Client ID: EB-4_1.5-2
 Site: Rexam DSI

Lab Sample No: 237815
 Lab Job No: F104

Date Sampled: 10/25/00
 Date Received: 10/27/00
 Date Analyzed: 10/30/00
 GC Column: DB624
 Instrument ID: VOAMS1.i
 Lab File ID: a10463.d

Matrix: SOIL
 Level: LOW
 Sample Weight: 5.8 g
 Purge Volume: 5.0 ml
 % Moisture: 7.9

VOLATILE ORGANICS - GC/MS
 TENTATIVELY IDENTIFIED COMPOUNDS
 METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. Unknown Alkane	3.94	6.8	
2. 2,3-dihydro-methyl-1H-Indene isomer/Un	18.05	5.1	
3.			
4.			
5.			
6.			
7.			
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TOTAL ESTIMATED CONCENTRATION

12

Client ID: EB-4 1.5-2
 Site: Rexam DSI

Lab Sample No: 237815
 Lab Job No: F104

Date Sampled: 10/25/00
 Date Received: 10/27/00
 Date Extracted: 10/28/00
 Date Analyzed: 10/31/00
 GC Column: DB-5
 Instrument ID: BNAMS7.i
 Lab File ID: 13269.d

Matrix: SOIL
 Level: LOW
 Sample Weight: 30.0 g
 Extract Final Volume: 2.0 ml
 Dilution Factor: 1.0
 % Moisture: 8

SEMI-VOLATILE ORGANICS - GC/MS
 METHOD 8270C

Parameter	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
N-Nitrosodimethylamine	ND	360
bis(2-Chloroethyl) ether	ND	36
1,3-Dichlorobenzene	ND	360
1,4-Dichlorobenzene	ND	360
1,2-Dichlorobenzene	ND	360
bis(2-chloroisopropyl) ether	ND	360
N-Nitroso-di-n-propylamine	ND	36
Hexachloroethane	ND	36
Nitrobenzene	ND	36
Isophorone	ND	360
bis(2-Chloroethoxy) methane	ND	360
1,2,4-Trichlorobenzene	ND	36
Naphthalene	71 J	360
Hexachlorobutadiene	ND	72
Hexachlorocyclopentadiene	ND	360
2-Chloronaphthalene	ND	360
Dimethylphthalate	ND	360
Acenaphthylene	290 J	360
2,6-Dinitrotoluene	ND	72
Acenaphthene	54 J	360
2,4-Dinitrotoluene	ND	72
Diethylphthalate	ND	360
4-Chlorophenyl-phenylether	ND	360
Fluorene	78 J	360
N-Nitrosodiphenylamine	ND	360
4-Bromophenyl-phenylether	ND	360
Hexachlorobenzene	ND	36
Phenanthrene	1000	360
Anthracene	380	360
Di-n-butylphthalate	ND	360
Fluoranthene	2500	360
Pyrene	2600	360
Benzidine	ND	1400
Butylbenzylphthalate	ND	360

Client ID: EB-4_1.5-2
 Site: Rexam DSI

Lab Sample No: 237815
 Lab Job No: F104

Date Sampled: 10/25/00
 Date Received: 10/27/00
 Date Extracted: 10/28/00
 Date Analyzed: 10/31/00
 GC Column: DB-5
 Instrument ID: BNAMS7.i
 Lab File ID: 13269.d

Matrix: SOIL
 Level: LOW
 Sample Weight: 30.0 g
 Extract Final Volume: 2.0 ml
 Dilution Factor: 1.0
 % Moisture: 8

SEMI-VOLATILE ORGANICS - GC/MS
 METHOD 8270C

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
3,3'-Dichlorobenzidine	ND	720
Benzo(a)anthracene	1300	36
Chrysene	1300	360
bis(2-Ethylhexyl)phthalate	ND	360
Di-n-octylphthalate	ND	360
Benzo(b)fluoranthene	2000	36
Benzo(k)fluoranthene	940	36
Benzo(a)pyrene	1300	36
Indeno(1,2,3-cd)pyrene	490	36
Dibenz(a,h)anthracene	81	36
Benzo(g,h,i)perylene	370	360

Client ID: EB-4_1.5-2
 Site: Rexam DSI

Lab Sample No: 237815
 Lab Job No: F104

Date Sampled: 10/25/00
 Date Received: 10/27/00
 Date Extracted: 10/28/00
 Date Analyzed: 10/31/00
 GC Column: DB-5
 Instrument ID: BNAMS7.i
 Lab File ID: 13269.d

Matrix: SOIL
 Level: LOW
 Sample Weight: 30.0 g
 Extract Final Volume: 2.0 ml
 Dilution Factor: 1.0
 % Moisture: 7.9

SEMI-VOLATILE ORGANICS - GC/MS
 TENTATIVELY IDENTIFIED COMPOUNDS
 METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. Unknown Alkane	19.79	290	
2. C15H10/C15H12 PAHs	21.79	310	
3. Unknown Alkane	24.89	430	
4. Unknown	27.55	330	
5. C20H12 PAH	28.13	750	
6. C20H12 PAH	28.67	1400	
7. C20H12 PAH	29.12	510	
8. Unknown	29.49	310	
9. Unknown Alkane	30.83	470	
10. Unknown	31.22	1100	
11. Unknown	32.61	710	
12. Unknown	33.61	520	
13.			
14.			
15.			
16.			
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TOTAL ESTIMATED CONCENTRATION

7130

Client ID: EB-4_1.5-2
 Site: Rexam DSI

Lab Sample ID: 237815
 Lab Job No: F104

Date Sampled: 10/25/00
 Date Received: 10/27/00
 Date Extracted: 10/28/00
 Date Analyzed: 10/29/00
 GC Front Column: DB-5
 GC Rear Column: DB-608
 Instrument ID: PESTGC5.i
 Front File ID: pf026322.d
 Rear File ID: pr026322.d

Matrix: SOIL
 Level: LOW
 Sample Weight: 15 g
 Extract Final Volume: 10.0 ml
 Dilution Factor: 1.0
 % Moisture: 8

ORGANOCHLORINE PCBs - GC/ECD
 METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>	
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u>	<u>Column</u>
			<u>Units: ug/kg</u>	
Aroclor-1016	ND		73	R
Aroclor-1221	ND		73	R
Aroclor-1232	ND		73	R
Aroclor-1242	ND		73	R
Aroclor-1248	ND		73	R
Aroclor-1254	ND		73	R
Aroclor-1260	ND		73	R
Aroclor-1262	ND		73	R
Aroclor-1268	ND		73	R

Client ID: EB-4 1.5-2
 Site: Rexam DSI

Lab Sample No: 237815
 Lab Job No: F104

Date Sampled: 10/25/00
 Date Received: 10/27/00

Matrix: SOLID
 Level: LOW
 % Moisture: 7.9

METALS ANALYSIS

<u>Analyte</u>	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	<u>Qual</u>	<u>M</u>
Antimony	ND	1.1	N	P
Arsenic	2.2	0.63		P
Beryllium	0.21	0.059	B	P
Cadmium	ND	0.079		P
Chromium	5.5	0.32		P
Copper	15.7	0.73	*	P
Lead	21.8	0.45	*	P
Mercury	0.07	0.018		CV
Nickel	5.4	0.32	B	P
Selenium	ND	0.83		P
Silver	ND	0.28		P
Thallium	ND	0.93		P
Zinc	38.5	1.1		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
 M Column - Method Code (See Section 2 of Report)

Client ID: EB-5_1.2-1.7
 Site: Rexam DSI

Lab Sample No: 237816
 Lab Job No: F104

Date Sampled: 10/25/00
 Date Received: 10/27/00
 Date Analyzed: 10/30/00
 GC Column: DB624
 Instrument ID: VOAMS1.i
 Lab File ID: a10464.d

Matrix: SOIL
 Level: LOW
 Sample Weight: 5.7 g
 Purge Volume: 5.0 ml
 % Moisture: 10

VOLATILE ORGANICS - GC/MS
 METHOD 8260B

Parameter	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Chloromethane	ND	4.9
Bromomethane	ND	4.9
Vinyl Chloride	ND	4.9
Chloroethane	ND	4.9
Methylene Chloride	ND	2.9
Trichlorofluoromethane	1.0J	4.9
1,1-Dichloroethene	ND	1.9
1,1-Dichloroethane	ND	4.9
trans-1,2-Dichloroethene	ND	4.9
cis-1,2-Dichloroethene	ND	4.9
Chloroform	ND	4.9
1,2-Dichloroethane	ND	1.9
1,1,1-Trichloroethane	ND	4.9
Carbon Tetrachloride	ND	1.9
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	4.9
Trichloroethene	ND	1.0
Dibromochloromethane	ND	4.9
1,1,2-Trichloroethane	ND	2.9
Benzene	ND	1.0
trans-1,3-Dichloropropene	ND	4.9
2-Chloroethyl Vinyl Ether	ND	4.9
Bromoform	ND	3.9
Tetrachloroethene	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	0.7J	4.9
Chlorobenzene	ND	4.9
Ethylbenzene	ND	3.9
Xylene (Total)	ND	4.9

Client ID: **EB-5_1.2-1.7**
 Site: Rexam DSI

Lab Sample No: **237816**
 Lab Job No: **F104**

Date Sampled: 10/25/00
 Date Received: 10/27/00
 Date Analyzed: 10/30/00
 GC Column: DB624
 Instrument ID: VOAMS1.i
 Lab File ID: a10464.d

Matrix: SOIL
 Level: LOW
 Sample Weight: 5.7 g
 Purge Volume: 5.0 ml
 % Moisture: 10.3

**VOLATILE ORGANICS - GC/MS
 TENTATIVELY IDENTIFIED COMPOUNDS
 METHOD 8260B**

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			
TOTAL ESTIMATED CONCENTRATION		0.0	

Client ID: EB-5 1.2-1.7
Site: Rexam DSI

Lab Sample No: 237816
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/30/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: 13254.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 10

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
N-Nitrosodimethylamine	ND	370
bis(2-Chloroethyl) ether	ND	37
1,3-Dichlorobenzene	ND	370
1,4-Dichlorobenzene	ND	370
1,2-Dichlorobenzene	ND	370
bis(2-chloroisopropyl) ether	ND	370
N-Nitroso-di-n-propylamine	ND	37
Hexachloroethane	ND	37
Nitrobenzene	ND	37
Isophorone	ND	370
bis(2-Chloroethoxy) methane	ND	370
1,2,4-Trichlorobenzene	ND	37
Naphthalene	15 J	370
Hexachlorobutadiene	ND	74
Hexachlorocyclopentadiene	ND	370
2-Chloronaphthalene	ND	370
Dimethylphthalate	ND	370
Acenaphthylene	39 J	370
2,6-Dinitrotoluene	ND	74
Acenaphthene	ND	370
2,4-Dinitrotoluene	ND	74
Diethylphthalate	ND	370
4-Chlorophenyl-phenylether	ND	370
Fluorene	ND	370
N-Nitrosodiphenylamine	ND	370
4-Bromophenyl-phenylether	ND	370
Hexachlorobenzene	ND	37
Phenanthrene	78 J	370
Anthracene	26 J	370
Di-n-butylphthalate	ND	370
Fluoranthene	290 J	370
Pyrene	350 J	370
Benzidine	ND	1500
Butylbenzylphthalate	ND	370

Client ID: EB-5_1.2-1.7
 Site: Rexam DSI

Lab Sample No: 237816
 Lab Job No: F104

Date Sampled: 10/25/00
 Date Received: 10/27/00
 Date Extracted: 10/28/00
 Date Analyzed: 10/30/00
 GC Column: DB-5
 Instrument ID: BNAMS7.i
 Lab File ID: 13254.d

Matrix: SOIL
 Level: LOW
 Sample Weight: 30.0 g
 Extract Final Volume: 2.0 ml
 Dilution Factor: 1.0
 % Moisture: 10

SEMI-VOLATILE ORGANICS - GC/MS
 METHOD 8270C

Parameter	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
3,3'-Dichlorobenzidine	ND	740
Benzo(a)anthracene	240	37
Chrysene	180 J	370
bis(2-Ethylhexyl)phthalate	ND	370
Di-n-octylphthalate	ND	370
Benzo(b)fluoranthene	220	37
Benzo(k)fluoranthene	110	37
Benzo(a)pyrene	180	37
Indeno(1,2,3-cd)pyrene	74	37
Dibenz(a,h)anthracene	19 J	37
Benzo(g,h,i)perylene	88 J	370

Client ID: EB-5_1.2-1.7
Site: Rexam DSI

Lab Sample No: 237816
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/30/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: 13254.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 10.3

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. NO SEMI-VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
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21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

Client ID: EB-6 Outfall
Site: Rexam DSI

Lab Sample No: 237817
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Analyzed: 10/30/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10465.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.1 g
Purge Volume: 5.0 ml
% Moisture: 22

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Chloromethane	ND	6.3
Bromomethane	ND	6.3
Vinyl Chloride	ND	6.3
Chloroethane	ND	6.3
Methylene Chloride	2.5JB	3.8
Trichlorofluoromethane	ND	6.3
1,1-Dichloroethene	ND	2.5
1,1-Dichloroethane	ND	6.3
trans-1,2-Dichloroethene	ND	6.3
cis-1,2-Dichloroethene	ND	6.3
Chloroform	ND	6.3
1,2-Dichloroethane	ND	2.5
1,1,1-Trichloroethane	ND	6.3
Carbon Tetrachloride	ND	2.5
Bromodichloromethane	ND	1.2
1,2-Dichloropropane	ND	1.2
cis-1,3-Dichloropropene	ND	6.3
Trichloroethene	ND	1.2
Dibromochloromethane	ND	6.3
1,1,2-Trichloroethane	ND	3.8
Benzene	1.3	1.2
trans-1,3-Dichloropropene	ND	6.3
2-Chloroethyl Vinyl Ether	ND	6.3
Bromoform	ND	5.0
Tetrachloroethene	ND	1.2
1,1,2,2-Tetrachloroethane	ND	1.2
Toluene	1.5J	6.3
Chlorobenzene	ND	6.3
Ethylbenzene	ND	5.0
Xylene (Total)	ND	6.3

Client ID: EB-6 Outfall
 Site: Rexam DSI

Lab Sample No: 237817
 Lab Job No: F104

Date Sampled: 10/25/00
 Date Received: 10/27/00
 Date Analyzed: 10/30/00
 GC Column: DB624
 Instrument ID: VOAMS1.i
 Lab File ID: a10465.d

Matrix: SOIL
 Level: LOW
 Sample Weight: 5.1 g
 Purge Volume: 5.0 ml
 % Moisture: 22.5

VOLATILE ORGANICS - GC/MS
 TENTATIVELY IDENTIFIED COMPOUNDS
 METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. Unknown Alkene	3.35	340	
2. Unknown	3.70	46	
3. Unknown Alkene	3.97	130	
4. Unknown Alkene	4.31	48	
5. C5H12 Alkane	4.91	17	
6. C5H10 Alkene	5.25	20	
7. Unknown	5.36	32	
8. 2-Propanone	6.05	17	
9. Unknown Alkane	6.82	8.8	
10. 2-Butanone	8.58	9.7	
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

668

Client ID: EB-6 Outfall
Site: Rexam DSI

Lab Sample No: 237817
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/31/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: 13267.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 5.0 ml
Dilution Factor: 5.0
% Moisture: 22

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>
	Units: ug/kg (Dry Weight)		Limit Units: ug/kg
N-Nitrosodimethylamine	ND		5400
bis(2-Chloroethyl) ether	ND		540
1,3-Dichlorobenzene	ND		5400
1,4-Dichlorobenzene	ND		5400
1,2-Dichlorobenzene	ND		5400
bis(2-chloroisopropyl) ether	ND		5400
N-Nitroso-di-n-propylamine	ND		540
Hexachloroethane	ND		540
Nitrobenzene	ND		540
Isophorone	ND		5400
bis(2-Chloroethoxy) methane	ND		5400
1,2,4-Trichlorobenzene	ND		540
Naphthalene	ND		5400
Hexachlorobutadiene	ND		1100
Hexachlorocyclopentadiene	ND		5400
2-Chloronaphthalene	ND		5400
Dimethylphthalate	ND		5400
Acenaphthylene	ND		5400
2,6-Dinitrotoluene	ND		1100
Acenaphthene	ND		5400
2,4-Dinitrotoluene	ND		1100
Diethylphthalate	ND		5400
4-Chlorophenyl-phenylether	ND		5400
Fluorene	ND		5400
N-Nitrosodiphenylamine	ND		5400
4-Bromophenyl-phenylether	ND		5400
Hexachlorobenzene	ND		540
Phenanthrene	ND		5400
Anthracene	ND		5400
Di-n-butylphthalate	ND		5400
Fluoranthene	ND		5400
Pyrene	ND		5400
Benzidine	ND		22000
Butylbenzylphthalate	ND		5400

Client ID: EB-6 Outfall
 Site: Rexam DSI

Lab Sample No: 237817
 Lab Job No: F104

Date Sampled: 10/25/00
 Date Received: 10/27/00
 Date Extracted: 10/28/00
 Date Analyzed: 10/31/00
 GC Column: DB-5
 Instrument ID: BNAMS7.i
 Lab File ID: 13267.d

Matrix: SOIL
 Level: LOW
 Sample Weight: 30.0 g
 Extract Final Volume: 5.0 ml
 Dilution Factor: 5.0
 % Moisture: 22

SEMI-VOLATILE ORGANICS - GC/MS
 METHOD 8270C

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
3,3'-Dichlorobenzidine	ND	11000
Benzo(a)anthracene	ND	540
Chrysene	ND	5400
bis(2-Ethylhexyl)phthalate	ND	5400
Di-n-octylphthalate	ND	5400
Benzo(b)fluoranthene	ND	540
Benzo(k)fluoranthene	ND	540
Benzo(a)pyrene	ND	540
Indeno(1,2,3-cd)pyrene	ND	540
Dibenz(a,h)anthracene	ND	540
Benzo(g,h,i)perylene	ND	5400

Client ID: EB-6_Outfall
Site: Rexam DSI

Lab Sample No: 237817
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/31/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: l3267.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 5.0 ml
Dilution Factor: 5.0
% Moisture: 22.5

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. Unknown	15.95	6600	_____
2. Unknown	23.81	9800	_____
3. Unknown	25.92	22000	_____
4. Unknown	27.71	20000	_____
5. Unknown	28.32	14000	_____
6. Unknown	28.44	23000	_____
7. Unknown	28.79	36000	_____
8. Unknown	30.29	46000	_____
9. Unknown	31.18	15000	_____
10. Unknown	32.51	41000	_____
11. Unknown	32.77	26000	_____
12. _____	_____	_____	_____
13. _____	_____	_____	_____
14. _____	_____	_____	_____
15. _____	_____	_____	_____
16. _____	_____	_____	_____
17. _____	_____	_____	_____
18. _____	_____	_____	_____
19. _____	_____	_____	_____
20. _____	_____	_____	_____
21. _____	_____	_____	_____
22. _____	_____	_____	_____
23. _____	_____	_____	_____
24. _____	_____	_____	_____
25. _____	_____	_____	_____
26. _____	_____	_____	_____
27. _____	_____	_____	_____
28. _____	_____	_____	_____
29. _____	_____	_____	_____
30. _____	_____	_____	_____

TOTAL ESTIMATED CONCENTRATION

259400

Client ID: TPE-1
Site: Rexam DSI

Lab Sample No: 237818
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Analyzed: 10/31/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10485.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.1 g
Purge Volume: 5.0 ml
% Moisture: 7

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Chloromethane	ND	5.3
Bromomethane	ND	5.3
Vinyl Chloride	ND	5.3
Chloroethane	ND	5.3
Methylene Chloride	ND	3.2
Trichlorofluoromethane	ND	5.3
1,1-Dichloroethene	ND	2.1
1,1-Dichloroethane	ND	5.3
trans-1,2-Dichloroethene	ND	5.3
cis-1,2-Dichloroethene	ND	5.3
Chloroform	ND	5.3
1,2-Dichloroethane	ND	2.1
1,1,1-Trichloroethane	ND	5.3
Carbon Tetrachloride	ND	2.1
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.3
Trichloroethene	ND	1.0
Dibromochloromethane	ND	5.3
1,1,2-Trichloroethane	ND	3.2
Benzene	4.1	1.0
trans-1,3-Dichloropropene	ND	5.3
2-Chloroethyl Vinyl Ether	ND	5.3
Bromoform	ND	4.2
Tetrachloroethene	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	4.6J	5.3
Chlorobenzene	ND	5.3
Ethylbenzene	0.5J	4.2
Xylene (Total)	1.3J	5.3

Client ID: **TPE-1**
 Site: Rexam DSI

Lab Sample No: **237818**
 Lab Job No: F104

Date Sampled: 10/25/00
 Date Received: 10/27/00
 Date Analyzed: 10/31/00
 GC Column: DB624
 Instrument ID: VOAMS1.i
 Lab File ID: a10485.d

Matrix: SOIL
 Level: LOW
 Sample Weight: 5.1 g
 Purge Volume: 5.0 ml
 % Moisture: 6.9

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. Unknown	3.95	14	
2. Hexanal	12.95	11	
3. _____			
4. _____			
5. _____			
6. _____			
7. _____			
8. _____			
9. _____			
10. _____			
11. _____			
12. _____			
13. _____			
14. _____			
15. _____			
16. _____			
17. _____			
18. _____			
19. _____			
20. _____			
21. _____			
22. _____			
23. _____			
24. _____			
25. _____			
26. _____			
27. _____			
28. _____			
29. _____			
30. _____			

TOTAL ESTIMATED CONCENTRATION

25

Client ID: TPE-1
Site: Rexam DSI

Lab Sample No: 237818
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/30/00
GC Column: DB-5
Instrument ID: BNAMS7.1
Lab File ID: 13256.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 7

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
N-Nitrosodimethylamine	ND	360
bis(2-Chloroethyl) ether	ND	36
1,3-Dichlorobenzene	ND	360
1,4-Dichlorobenzene	ND	360
1,2-Dichlorobenzene	ND	360
bis(2-chloroisopropyl) ether	ND	360
N-Nitroso-di-n-propylamine	ND	36
Hexachloroethane	ND	36
Nitrobenzene	ND	36
Isophorone	ND	360
bis(2-Chloroethoxy) methane	ND	360
1,2,4-Trichlorobenzene	ND	36
Naphthalene	53 J	360
Hexachlorobutadiene	ND	72
Hexachlorocyclopentadiene	ND	360
2-Chloronaphthalene	ND	360
Dimethylphthalate	ND	360
Acenaphthylene	69 J	360
2,6-Dinitrotoluene	ND	72
Acenaphthene	38 J	360
2,4-Dinitrotoluene	ND	72
Diethylphthalate	ND	360
4-Chlorophenyl-phenylether	ND	360
Fluorene	72 J	360
N-Nitrosodiphenylamine	ND	360
4-Bromophenyl-phenylether	ND	360
Hexachlorobenzene	ND	36
Phenanthrene	800	360
Anthracene	100 J	360
Di-n-butylphthalate	ND	360
Fluoranthene	870	360
Pyrene	700	360
Benzidine	ND	1400
Butylbenzylphthalate	ND	360

Client ID: TPE-1
Site: Rexam DSI

Lab Sample No: 237818
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/30/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: 13256.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 7

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u> <u>Units: ug/kg</u>
3,3'-Dichlorobenzidine	ND		720
Benzo(a)anthracene	310		36
Chrysene	350 J		360
bis(2-Ethylhexyl)phthalate	ND		360
Di-n-octylphthalate	ND		360
Benzo(b)fluoranthene	390		36
Benzo(k)fluoranthene	160		36
Benzo(a)pyrene	260		36
Indeno(1,2,3-cd)pyrene	130		36
Dibenz(a,h)anthracene	22 J		36
Benzo(g,h,i)perylene	160 J		360

Client ID: TPE-1
Site: Rexam DSI

Lab Sample No: 237818
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/30/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: 13256.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 6.9

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. Unknown	28.19	350	
2. Unknown	34.27	690	
3. Unknown	34.95	1000	
4. Unknown Sterol	35.80	380	
5.			
6.			
7.			
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TOTAL ESTIMATED CONCENTRATION

2420

Client ID: **TPE-2**
 Site: Rexam DSI

Lab Sample No: **237819**
 Lab Job No: F104

Date Sampled: 10/25/00
 Date Received: 10/27/00
 Date Analyzed: 10/30/00
 GC Column: DB624
 Instrument ID: VOAMS1.i
 Lab File ID: a10467.d

Matrix: SOIL
 Level: LOW
 Sample Weight: 5.1 g
 Purge Volume: 5.0 ml
 % Moisture: 28

VOLATILE ORGANICS - GC/MS
METHOD 8260B

<u>Parameter</u>	<u>Analytical Results</u> <u>Units: ug/kg</u> <u>(Dry Weight)</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/kg</u>
Chloromethane	ND	6.7
Bromomethane	ND	6.7
Vinyl Chloride	ND	6.7
Chloroethane	ND	6.7
Methylene Chloride	ND	4.0
Trichlorofluoromethane	1.1J	6.7
1,1-Dichloroethene	ND	2.7
1,1-Dichloroethane	ND	6.7
trans-1,2-Dichloroethene	ND	6.7
cis-1,2-Dichloroethene	ND	6.7
Chloroform	ND	6.7
1,2-Dichloroethane	ND	2.7
1,1,1-Trichloroethane	ND	6.7
Carbon Tetrachloride	ND	2.7
Bromodichloromethane	ND	1.3
1,2-Dichloropropane	ND	1.3
cis-1,3-Dichloropropene	ND	6.7
Trichloroethene	ND	1.3
Dibromochloromethane	ND	6.7
1,1,2-Trichloroethane	ND	4.0
Benzene	ND	1.3
trans-1,3-Dichloropropene	ND	6.7
2-Chloroethyl Vinyl Ether	ND	6.7
Bromoform	ND	5.4
Tetrachloroethene	ND	1.3
1,1,2,2-Tetrachloroethane	ND	1.3
Toluene	1.3J	6.7
Chlorobenzene	ND	6.7
Ethylbenzene	ND	5.4
Xylene (Total)	ND	6.7

Client ID: **TPE-2**
 Site: Rexam DSI

Lab Sample No: **237819**
 Lab Job No: F104

Date Sampled: 10/25/00
 Date Received: 10/27/00
 Date Analyzed: 10/30/00
 GC Column: DB624
 Instrument ID: VOAMS1.i
 Lab File ID: a10467.d

Matrix: SOIL
 Level: LOW
 Sample Weight: 5.1 g
 Purge Volume: 5.0 ml
 % Moisture: 27.7

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
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TOTAL ESTIMATED CONCENTRATION

0.0

Client ID: TPE-2
Site: Rexam DSI

Lab Sample No: 237819
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/30/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: 13257.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 28

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
N-Nitrosodimethylamine	ND	460
bis(2-Chloroethyl) ether	ND	46
1,3-Dichlorobenzene	ND	460
1,4-Dichlorobenzene	ND	460
1,2-Dichlorobenzene	ND	460
bis(2-chloroisopropyl) ether	ND	460
N-Nitroso-di-n-propylamine	ND	46
Hexachloroethane	ND	46
Nitrobenzene	ND	46
Isophorone	ND	460
bis(2-Chloroethoxy) methane	ND	460
1,2,4-Trichlorobenzene	ND	46
Naphthalene	ND	460
Hexachlorobutadiene	ND	92
Hexachlorocyclopentadiene	ND	460
2-Chloronaphthalene	ND	460
Dimethylphthalate	ND	460
Acenaphthylene	ND	460
2,6-Dinitrotoluene	ND	92
Acenaphthene	ND	460
2,4-Dinitrotoluene	ND	92
Diethylphthalate	ND	460
4-Chlorophenyl-phenylether	ND	460
Fluorene	ND	460
N-Nitrosodiphenylamine	ND	460
4-Bromophenyl-phenylether	ND	460
Hexachlorobenzene	ND	46
Phenanthrene	54 J	460
Anthracene	ND	460
Di-n-butylphthalate	ND	460
Fluoranthene	15 J	460
Pyrene	17 J	460
Benzidine	ND	1800
Butylbenzylphthalate	ND	460

Client ID: TPE-2
Site: Rexam DSI

Lab Sample No: 237819
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/30/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: 13257.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 28

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
3,3'-Dichlorobenzidine	ND	920
Benzo(a)anthracene	ND	46
Chrysene	40 J	460
bis(2-Ethylhexyl)phthalate	ND	460
Di-n-octylphthalate	ND	460
Benzo(b)fluoranthene	11 J	46
Benzo(k)fluoranthene	ND	46
Benzo(a)pyrene	ND	46
Indeno(1,2,3-cd)pyrene	ND	46
Dibenz(a,h)anthracene	ND	46
Benzo(g,h,i)perylene	ND	460

Client ID: TPE-2
Site: Rexam DSI

Lab Sample No: 237819
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/30/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: 13257.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 27.7

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. Unknown Alkane	24.32	420	
2.			
3.			
4.			
5.			
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30.			

TOTAL ESTIMATED CONCENTRATION

420

Client ID: **TPE-3**
 Site: Rexam DSI

Lab Sample No: **237820**
 Lab Job No: F104

Date Sampled: 10/25/00
 Date Received: 10/27/00
 Date Analyzed: 10/30/00
 GC Column: DB624
 Instrument ID: VOAMS1.i
 Lab File ID: a10468.d

Matrix: SOIL
 Level: LOW
 Sample Weight: 5.6 g
 Purge Volume: 5.0 ml
 % Moisture: 4

VOLATILE ORGANICS - GC/MS
METHOD 8260B

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Chloromethane	ND	4.7
Bromomethane	ND	4.7
Vinyl Chloride	ND	4.7
Chloroethane	ND	4.7
Methylene Chloride	ND	2.8
Trichlorofluoromethane	ND	4.7
1,1-Dichloroethene	ND	1.9
1,1-Dichloroethane	ND	4.7
trans-1,2-Dichloroethene	ND	4.7
cis-1,2-Dichloroethene	ND	4.7
Chloroform	ND	4.7
1,2-Dichloroethane	ND	1.9
1,1,1-Trichloroethane	ND	4.7
Carbon Tetrachloride	ND	1.9
Bromodichloromethane	ND	0.9
1,2-Dichloropropane	ND	0.9
cis-1,3-Dichloropropene	ND	4.7
Trichloroethene	ND	0.9
Dibromochloromethane	ND	4.7
1,1,2-Trichloroethane	ND	2.8
Benzene	0.6J	0.9
trans-1,3-Dichloropropene	ND	4.7
2-Chloroethyl Vinyl Ether	ND	4.7
Bromoform	ND	3.7
Tetrachloroethene	ND	0.9
1,1,2,2-Tetrachloroethane	ND	0.9
Toluene	1.3J	4.7
Chlorobenzene	ND	4.7
Ethylbenzene	ND	3.7
Xylene (Total)	0.6J	4.7

Client ID: TPE-3
Site: Rexam DSI

Lab Sample No: 237820
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Analyzed: 10/30/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10468.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.6 g
Purge Volume: 5.0 ml
% Moisture: 4.2

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
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TOTAL ESTIMATED CONCENTRATION

0.0

Client ID: TPE-3
Site: Rexam DSI

Lab Sample No: 237820
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 11/01/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: 13319.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 4

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
N-Nitrosodimethylamine	ND	350
bis(2-Chloroethyl) ether	ND	35
1,3-Dichlorobenzene	ND	350
1,4-Dichlorobenzene	ND	350
1,2-Dichlorobenzene	ND	350
bis(2-chloroisopropyl) ether	ND	350
N-Nitroso-di-n-propylamine	ND	35
Hexachloroethane	ND	35
Nitrobenzene	ND	35
Isophorone	ND	350
bis(2-Chloroethoxy) methane	ND	350
1,2,4-Trichlorobenzene	ND	35
Naphthalene	ND	350
Hexachlorobutadiene	ND	70
Hexachlorocyclopentadiene	ND	350
2-Chloronaphthalene	ND	350
Dimethylphthalate	ND	350
Acenaphthylene	ND	350
2,6-Dinitrotoluene	ND	70
Acenaphthene	ND	350
2,4-Dinitrotoluene	ND	70
Diethylphthalate	ND	350
4-Chlorophenyl-phenylether	ND	350
Fluorene	ND	350
N-Nitrosodiphenylamine	ND	350
4-Bromophenyl-phenylether	ND	350
Hexachlorobenzene	ND	35
Phenanthrene	ND	350
Anthracene	ND	350
Di-n-butylphthalate	ND	350
Fluoranthene	8.5J	350
Pyrene	12 J	350
Benzidine	ND	1400
Butylbenzylphthalate	ND	350

Client ID: TPE-3
Site: Rexam DSI

Lab Sample No: 237820
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 11/01/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: 13319.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 4

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u> <u>Units: ug/kg</u>
3,3'-Dichlorobenzidine	ND		700
Benzo(a)anthracene	ND		35
Chrysene	8.3J		350
bis(2-Ethylhexyl)phthalate	ND		350
Di-n-octylphthalate	ND		350
Benzo(b)fluoranthene	10 J		35
Benzo(k)fluoranthene	ND		35
Benzo(a)pyrene	ND		35
Indeno(1,2,3-cd)pyrene	ND		35
Dibenz(a,h)anthracene	ND		35
Benzo(g,h,i)perylene	ND		350

Client ID: TPE-3
Site: Rexam DSI

Lab Sample No: 237820
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 11/01/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: 13319.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 4.2

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. NO SEMI-VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
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26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

Client ID: TPE-3
Site: Rexam DSI

Lab Sample ID: 237820
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/31/00
Date Analyzed: 11/01/00
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC5.i
Front File ID: pf026391.d
Rear File ID: pr026391.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 4

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>	
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u>	<u>Column</u>
			<u>Units: ug/kg</u>	
Aroclor-1016	ND		70	R
Aroclor-1221	ND		70	R
Aroclor-1232	ND		70	R
Aroclor-1242	ND		70	R
Aroclor-1248	ND		70	R
Aroclor-1254	ND		70	R
Aroclor-1260	ND		70	R
Aroclor-1262	ND		70	R
Aroclor-1268	ND		70	R

Client ID: TPE-3
 Site: Rexam DSI

Lab Sample No: 237820
 Lab Job No: F104

Date Sampled: 10/25/00
 Date Received: 10/27/00

Matrix: SOLID
 Level: LOW
 % Moisture: 4.2

METALS ANALYSIS

<u>Analyte</u>	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	<u>Qual</u>	<u>M</u>
Antimony	ND	1.2	N	P
Arsenic	ND	0.67		P
Beryllium	0.39	0.063	B	P
Cadmium	ND	0.084		P
Chromium	4.6	0.33		P
Copper	6.6	0.77	*	P
Lead	3.0	0.48	*	P
Mercury	ND	0.017		CV
Nickel	5.9	0.33	B	P
Selenium	ND	0.88		P
Silver	ND	0.29		P
Thallium	ND	0.98		P
Zinc	12.8	1.2		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
 M Column - Method Code (See Section 2 of Report)

Client ID: MW-1
Site: Rexam DSI

Lab Sample No: 237821
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Analyzed: 10/30/00
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v22790.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 624

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u> <u>Limit</u> <u>Units: ug/l</u>
Chloromethane	ND	0.5
Bromomethane	ND	0.3
Vinyl Chloride	ND	0.6
Chloroethane	ND	0.4
Methylene Chloride	ND	0.8
Trichlorofluoromethane	ND	0.3
1,1-Dichloroethene	ND	0.4
1,1-Dichloroethane	ND	0.4
trans-1,2-Dichloroethene	ND	0.4
cis-1,2-Dichloroethene	ND	0.4
Chloroform	ND	0.2
1,2-Dichloroethane	ND	0.2
1,1,1-Trichloroethane	ND	0.3
Carbon Tetrachloride	ND	0.4
Bromodichloromethane	ND	0.2
1,2-Dichloropropane	ND	0.2
cis-1,3-Dichloropropene	ND	0.1
Trichloroethene	ND	0.4
Dibromochloromethane	ND	0.2
1,1,2-Trichloroethane	ND	0.3
Benzene	ND	0.3
trans-1,3-Dichloropropene	ND	0.3
2-Chloroethyl Vinyl Ether	ND	0.5
Bromoform	ND	0.1
Tetrachloroethene	ND	0.3
1,1,2,2-Tetrachloroethane	ND	0.1
Toluene	ND	0.3
Chlorobenzene	ND	0.2
Ethylbenzene	ND	0.3
Xylene (Total)	ND	0.3

Client ID: MW-1
Site: Rexam DSI

Lab Sample No: 237821
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Analyzed: 10/30/00
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v22790.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 624

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
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22.			
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24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

Client ID: MW-1
Site: Rexam DSI

Lab Sample No: 237821
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/30/00
GC Column: DB-5
Instrument ID: BNAMS8.i
Lab File ID: aa2509.d

Matrix: WATER
Level: LOW
Sample Volume: 900 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 625

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u> <u>Limit</u> <u>Units: ug/l</u>
N-Nitrosodimethylamine	ND	0.5
bis(2-Chloroethyl) ether	ND	1.2
1,3-Dichlorobenzene	ND	0.6
1,4-Dichlorobenzene	ND	0.7
1,2-Dichlorobenzene	ND	0.6
bis(2-chloroisopropyl) ether	ND	1.2
N-Nitroso-di-n-propylamine	ND	0.9
Hexachloroethane	ND	0.8
Nitrobenzene	ND	0.9
Isophorone	ND	1.0
bis(2-Chloroethoxy) methane	ND	1.0
1,2,4-Trichlorobenzene	ND	0.6
Naphthalene	ND	0.9
Hexachlorobutadiene	ND	0.6
Hexachlorocyclopentadiene	ND	1.0
2-Chloronaphthalene	ND	0.9
Dimethylphthalate	ND	0.5
Acenaphthylene	ND	0.5
2,6-Dinitrotoluene	ND	0.8
Acenaphthene	ND	0.6
2,4-Dinitrotoluene	ND	0.6
Diethylphthalate	ND	0.4
4-Chlorophenyl-phenylether	ND	0.6
Fluorene	ND	0.8
N-Nitrosodiphenylamine	ND	0.6
4-Bromophenyl-phenylether	ND	1.4
Hexachlorobenzene	ND	0.6
Phenanthrene	ND	0.5
Anthracene	ND	0.3
Di-n-butylphthalate	ND	0.5
Fluoranthene	ND	0.5
Pyrene	ND	0.6
Benzidine	ND	15
Butylbenzylphthalate	ND	0.8

Client ID: MW-1
Site: Rexam DSI

Lab Sample No: 237821
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/30/00
GC Column: DB-5
Instrument ID: BNAMS8.i
Lab File ID: aa2509.d

Matrix: WATER
Level: LOW
Sample Volume: 900 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 625

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u> <u>Limit</u> <u>Units: ug/l</u>
3,3'-Dichlorobenzidine	ND	5.3
Benzo(a)anthracene	ND	0.5
Chrysene	ND	0.7
bis(2-Ethylhexyl)phthalate	ND	2.2
Di-n-octylphthalate	ND	0.4
Benzo(b)fluoranthene	ND	0.4
Benzo(k)fluoranthene	ND	0.7
Benzo(a)pyrene	ND	0.3
Indeno(1,2,3-cd)pyrene	ND	0.5
Dibenz(a,h)anthracene	ND	0.3
Benzo(g,h,i)perylene	ND	0.5

Client ID: MW-1
Site: Rexam DSI

Lab Sample No: 237821
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/30/00
GC Column: DB-5
Instrument ID: BNAMS8.i
Lab File ID: aa2509.d

Matrix: WATER
Level: LOW
Sample Volume: 900 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 625

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO SEMI-VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
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TOTAL ESTIMATED CONCENTRATION

0.0

Client ID: MW-1
 Site: Rexam DSI

Lab Sample No: 237821
 Lab Job No: F104

Date Sampled: 10/25/00
 Date Received: 10/27/00

Matrix: WATER
 Level: LOW

METALS ANALYSIS

<u>Analyte</u>	<u>Analytical Result Units: ug/l</u>	<u>Instrument Detection Limit</u>	<u>M</u>
Antimony	ND	4.5	P
Arsenic	ND	3.6	P
Beryllium	ND	0.20	P
Cadmium	ND	0.40	P
Chromium	ND	1.1	P
Copper	ND	2.7	P
Lead	ND	2.1	P
Mercury	ND	0.10	CV
Nickel	1.6	1.4	P
Selenium	ND	4.5	P
Silver	ND	1.1	P
Thallium	ND	4.1	P
Zinc	20.8	5.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: PZ-2
Site: Rexam DSI

Lab Sample No: 237822
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Analyzed: 10/30/00
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v22791.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 624

Parameter	Analytical Result	Method Detection
	Units: ug/l	Limit Units: ug/l
Chloromethane	ND	0.5
Bromomethane	ND	0.3
Vinyl Chloride	ND	0.6
Chloroethane	ND	0.4
Methylene Chloride	ND	0.8
Trichlorofluoromethane	ND	0.3
1,1-Dichloroethene	ND	0.4
1,1-Dichloroethane	ND	0.4
trans-1,2-Dichloroethene	ND	0.4
cis-1,2-Dichloroethene	ND	0.4
Chloroform	ND	0.2
1,2-Dichloroethane	ND	0.2
1,1,1-Trichloroethane	ND	0.3
Carbon Tetrachloride	ND	0.4
Bromodichloromethane	ND	0.2
1,2-Dichloropropane	ND	0.2
cis-1,3-Dichloropropene	ND	0.1
Trichloroethene	ND	0.4
Dibromochloromethane	ND	0.2
1,1,2-Trichloroethane	ND	0.3
Benzene	ND	0.3
trans-1,3-Dichloropropene	ND	0.3
2-Chloroethyl Vinyl Ether	ND	0.5
Bromoform	ND	0.1
Tetrachloroethene	ND	0.3
1,1,2,2-Tetrachloroethane	ND	0.1
Toluene	ND	0.3
Chlorobenzene	ND	0.2
Ethylbenzene	ND	0.3
Xylene (Total)	ND	0.3

Client ID: PZ-2
 Site: Rexam DSI

Lab Sample No: 237822
 Lab Job No: F104

Date Sampled: 10/25/00
 Date Received: 10/27/00
 Date Analyzed: 10/30/00
 GC Column: DB624
 Instrument ID: VOAMS7.i
 Lab File ID: v22791.d

Matrix: WATER
 Level: LOW
 Purge Volume: 5.0 ml
 Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
 TENTATIVELY IDENTIFIED COMPOUNDS
 METHOD 624

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
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TOTAL ESTIMATED CONCENTRATION

0.0

Client ID: PZ-2
Site: Rexam DSI

Lab Sample No: 237822
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/31/00
GC Column: DB-5
Instrument ID: BNAMS8.i
Lab File ID: aa2510.d

Matrix: WATER
Level: LOW
Sample Volume: 900 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 625

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
N-Nitrosodimethylamine	ND	0.5
bis(2-Chloroethyl) ether	ND	1.2
1,3-Dichlorobenzene	ND	0.6
1,4-Dichlorobenzene	ND	0.7
1,2-Dichlorobenzene	ND	0.6
bis(2-chloroisopropyl) ether	ND	1.2
N-Nitroso-di-n-propylamine	ND	0.9
Hexachloroethane	ND	0.8
Nitrobenzene	ND	0.9
Isophorone	ND	1.0
bis(2-Chloroethoxy) methane	ND	1.0
1,2,4-Trichlorobenzene	ND	0.6
Naphthalene	ND	0.9
Hexachlorobutadiene	ND	0.6
Hexachlorocyclopentadiene	ND	1.0
2-Chloronaphthalene	ND	0.9
Dimethylphthalate	ND	0.5
Acenaphthylene	ND	0.5
2,6-Dinitrotoluene	ND	0.8
Acenaphthene	ND	0.6
2,4-Dinitrotoluene	ND	0.6
Diethylphthalate	ND	0.4
4-Chlorophenyl-phenylether	ND	0.6
Fluorene	ND	0.8
N-Nitrosodiphenylamine	ND	0.6
4-Bromophenyl-phenylether	ND	1.4
Hexachlorobenzene	ND	0.6
Phenanthrene	ND	0.5
Anthracene	ND	0.3
Di-n-butylphthalate	ND	0.5
Fluoranthene	ND	0.5
Pyrene	ND	0.6
Benzidine	ND	15
Butylbenzylphthalate	ND	0.8

SEVERN

TRENT

SERVICES

Client ID: PZ-2
Site: Rexam DSI

Lab Sample No: 237822
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/31/00
GC Column: DB-5
Instrument ID: BNAMS8.i
Lab File ID: aa2510.d

Matrix: WATER
Level: LOW
Sample Volume: 900 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 625

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	Method Detection
		<u>Limit</u> <u>Units: ug/l</u>
3,3'-Dichlorobenzidine	ND	5.3
Benzo(a)anthracene	ND	0.5
Chrysene	ND	0.7
bis(2-Ethylhexyl)phthalate	ND	2.2
Di-n-octylphthalate	ND	0.4
Benzo(b)fluoranthene	ND	0.4
Benzo(k)fluoranthene	ND	0.7
Benzo(a)pyrene	ND	0.3
Indeno(1,2,3-cd)pyrene	ND	0.5
Dibenz(a,h)anthracene	ND	0.3
Benzo(g,h,i)perylene	ND	0.5

Client ID: PZ-2
Site: Rexam DSI

Lab Sample No: 237822
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/31/00
GC Column: DB-5
Instrument ID: BNAMS8.i
Lab File ID: aa2510.d

Matrix: WATER
Level: LOW
Sample Volume: 900 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 625

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO SEMI-VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
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29.			
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TOTAL ESTIMATED CONCENTRATION

0.0

Client ID: PZ-2
Site: Rexam DSI

Lab Sample No: 237822
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00

Matrix: WATER
Level: LOW

METALS ANALYSIS

<u>Analyte</u>	Analytical Result <u>Units: ug/l</u>	Instrument Detection <u>Limit</u>	<u>M</u>
Antimony	ND	4.5	P
Arsenic	6.6	3.6	P
Beryllium	ND	0.20	P
Cadmium	ND	0.40	P
Chromium	1.5	1.1	P
Copper	3.4	2.7	P
Lead	75.2	2.1	P
Mercury	ND	0.10	CV
Nickel	2.0	1.4	P
Selenium	ND	4.5	P
Silver	ND	1.1	P
Thallium	ND	4.1	P
Zinc	13.6	5.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: Trip Blank-1
Site: Rexam DSI

Lab Sample No: 237823
Lab Job No: F104

Date Sampled: 10/24/00
Date Received: 10/27/00
Date Analyzed: 10/30/00
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v22792.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 624

Parameter	Analytical Result	Method Detection
	Units: ug/l	Limit Units: ug/l
Chloromethane	ND	0.5
Bromomethane	ND	0.3
Vinyl Chloride	ND	0.6
Chloroethane	ND	0.4
Methylene Chloride	ND	0.8
Trichlorofluoromethane	ND	0.3
1,1-Dichloroethene	ND	0.4
1,1-Dichloroethane	ND	0.4
trans-1,2-Dichloroethene	ND	0.4
cis-1,2-Dichloroethene	ND	0.4
Chloroform	ND	0.2
1,2-Dichloroethane	ND	0.2
1,1,1-Trichloroethane	ND	0.3
Carbon Tetrachloride	ND	0.4
Bromodichloromethane	ND	0.2
1,2-Dichloropropane	ND	0.2
cis-1,3-Dichloropropene	ND	0.1
Trichloroethene	ND	0.4
Dibromochloromethane	ND	0.2
1,1,2-Trichloroethane	ND	0.3
Benzene	ND	0.3
trans-1,3-Dichloropropene	ND	0.3
2-Chloroethyl Vinyl Ether	ND	0.5
Bromoform	ND	0.1
Tetrachloroethene	ND	0.3
1,1,2,2-Tetrachloroethane	ND	0.1
Toluene	ND	0.3
Chlorobenzene	ND	0.2
Ethylbenzene	ND	0.3
Xylene (Total)	ND	0.3

Client ID: Trip Blank-1
 Site: Rexam DSI

Lab Sample No: 237823
 Lab Job No: F104

Date Sampled: 10/24/00
 Date Received: 10/27/00
 Date Analyzed: 10/30/00
 GC Column: DB624
 Instrument ID: VOAMS7.i
 Lab File ID: v22792.d

Matrix: WATER
 Level: LOW
 Purge Volume: 5.0 ml
 Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
 TENTATIVELY IDENTIFIED COMPOUNDS
 METHOD 624

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
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TOTAL ESTIMATED CONCENTRATION

0.0

Client ID: **Field_Blank-1025**
 Site: Rexam DSI

Lab Sample No: **237824**
 Lab Job No: F104

Date Sampled: 10/25/00
 Date Received: 10/27/00
 Date Analyzed: 10/30/00
 GC Column: DB624
 Instrument ID: VOAMS7.i
 Lab File ID: v22793.d

Matrix: WATER
 Level: LOW
 Purge Volume: 5.0 ml
 Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 624

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u> <u>Limit</u> <u>Units: ug/l</u>
Chloromethane	ND	0.5
Bromomethane	ND	0.3
Vinyl Chloride	ND	0.6
Chloroethane	ND	0.4
Methylene Chloride	ND	0.8
Trichlorofluoromethane	ND	0.3
1,1-Dichloroethene	ND	0.4
1,1-Dichloroethane	ND	0.4
trans-1,2-Dichloroethene	ND	0.4
cis-1,2-Dichloroethene	ND	0.4
Chloroform	ND	0.2
1,2-Dichloroethane	ND	0.2
1,1,1-Trichloroethane	ND	0.3
Carbon Tetrachloride	ND	0.4
Bromodichloromethane	ND	0.2
1,2-Dichloropropane	ND	0.2
cis-1,3-Dichloropropene	ND	0.1
Trichloroethene	ND	0.4
Dibromochloromethane	ND	0.2
1,1,2-Trichloroethane	ND	0.3
Benzene	ND	0.3
trans-1,3-Dichloropropene	ND	0.3
2-Chloroethyl Vinyl Ether	ND	0.5
Bromoform	ND	0.1
Tetrachloroethene	ND	0.3
1,1,2,2-Tetrachloroethane	ND	0.1
Toluene	ND	0.3
Chlorobenzene	ND	0.2
Ethylbenzene	ND	0.3
Xylene (Total)	ND	0.3

Client ID: **Field_Blank-1025**
 Site: Rexam DSI

Lab Sample No: **237824**
 Lab Job No: F104

Date Sampled: 10/25/00
 Date Received: 10/27/00
 Date Analyzed: 10/30/00
 GC Column: DB624
 Instrument ID: VOAMS7.i
 Lab File ID: v22793.d

Matrix: WATER
 Level: LOW
 Purge Volume: 5.0 ml
 Dilution Factor: 1.0

**VOLATILE ORGANICS - GC/MS
 TENTATIVELY IDENTIFIED COMPOUNDS
 METHOD 624**

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
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TOTAL ESTIMATED CONCENTRATION

0.0

Client ID: **Field_Blank-1025**
 Site: Rexam DSI

Lab Sample No: **237824**
 Lab Job No: F104

Date Sampled: 10/25/00
 Date Received: 10/27/00
 Date Extracted: 10/28/00
 Date Analyzed: 10/31/00
 GC Column: DB-5
 Instrument ID: BNAMS8.i
 Lab File ID: aa2513.d

Matrix: WATER
 Level: LOW
 Sample Volume: 750 ml
 Extract Final Volume: 2.0 ml
 Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 625

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u> <u>Limit</u> <u>Units: ug/l</u>
N-Nitrosodimethylamine	ND	0.6
bis(2-Chloroethyl) ether	ND	1.5
1,3-Dichlorobenzene	ND	0.8
1,4-Dichlorobenzene	ND	0.8
1,2-Dichlorobenzene	ND	0.7
bis(2-chloroisopropyl) ether	ND	1.4
N-Nitroso-di-n-propylamine	ND	1.1
Hexachloroethane	ND	0.9
Nitrobenzene	ND	1.1
Isophorone	ND	1.2
bis(2-Chloroethoxy) methane	ND	1.2
1,2,4-Trichlorobenzene	ND	0.8
Naphthalene	ND	1.0
Hexachlorobutadiene	ND	0.8
Hexachlorocyclopentadiene	ND	1.2
2-Chloronaphthalene	ND	1.0
Dimethylphthalate	ND	0.6
Acenaphthylene	ND	0.7
2,6-Dinitrotoluene	ND	0.9
Acenaphthene	ND	0.8
2,4-Dinitrotoluene	ND	0.8
Diethylphthalate	ND	0.5
4-Chlorophenyl-phenylether	ND	0.7
Fluorene	ND	1.0
N-Nitrosodiphenylamine	ND	0.7
4-Bromophenyl-phenylether	ND	1.7
Hexachlorobenzene	ND	0.7
Phenanthrene	ND	0.6
Anthracene	ND	0.4
Di-n-butylphthalate	ND	0.7
Fluoranthene	ND	0.6
Pyrene	ND	0.7
Benzidine	ND	18
Butylbenzylphthalate	ND	0.9

Client ID: **Field_Blank-1025**
Site: Rexam DSI

Lab Sample No: **237824**
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/31/00
GC Column: DB-5
Instrument ID: BNAMS8.i
Lab File ID: aa2513.d

Matrix: WATER
Level: LOW
Sample Volume: 750 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 625

<u>Parameter</u>	Analytical Result <u>Units: ug/l</u>	Method Detection
		Limit <u>Units: ug/l</u>
3,3'-Dichlorobenzidine	ND	6.3
Benzo(a)anthracene	ND	0.5
Chrysene	ND	0.9
bis(2-Ethylhexyl)phthalate	ND	2.6
Di-n-octylphthalate	ND	0.4
Benzo(b)fluoranthene	ND	0.5
Benzo(k)fluoranthene	ND	0.9
Benzo(a)pyrene	ND	0.3
Indeno(1,2,3-cd)pyrene	ND	0.7
Dibenz(a,h)anthracene	ND	0.4
Benzo(g,h,i)perylene	ND	0.6

Client ID: **Field_Blank-1025**
 Site: Rexam DSI

Lab Sample No: **237824**
 Lab Job No: F104

Date Sampled: 10/25/00
 Date Received: 10/27/00
 Date Extracted: 10/28/00
 Date Analyzed: 10/31/00
 GC Column: DB-5
 Instrument ID: BNAMS8.i
 Lab File ID: aa2513.d

Matrix: WATER
 Level: LOW
 Sample Volume: 750 ml
 Extract Final Volume: 2.0 ml
 Dilution Factor: 1.0

**SEMI-VOLATILE ORGANICS - GC/MS
 TENTATIVELY IDENTIFIED COMPOUNDS
 METHOD 625**

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO SEMI-VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
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TOTAL ESTIMATED CONCENTRATION

0.0

SEVERN

TRENT

SERVICES

Client ID: Field Blank-1025
Site: Rexam DSI

Lab Sample No: 237824
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00

Matrix: WATER
Level: LOW

METALS ANALYSIS

<u>Analyte</u>	Analytical Result <u>Units: ug/l</u>	Instrument Detection <u>Limit</u>	<u>M</u>
Antimony	ND	4.5	P
Arsenic	ND	3.6	P
Beryllium	ND	0.20	P
Cadmium	ND	0.40	P
Chromium	ND	1.1	P
Copper	ND	2.7	P
Lead	ND	2.1	P
Mercury	ND	0.10	CV
Nickel	ND	1.4	P
Selenium	ND	4.5	P
Silver	ND	1.1	P
Thallium	ND	4.1	P
Zinc	103	5.2	P

M Column - Method Code (See Section 2 of Report)

SEVERN

TRENT

SERVICES

Client ID: RC-1_2nd_Flr
Site: Rexam DSI

Lab Sample No: 237825
Lab Job No: F104

Date Sampled: 10/26/00
Date Received: 10/27/00
Date Analyzed: 10/31/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10515.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.4 g
Purge Volume: 5.0 ml
% Moisture: 0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Chloromethane	ND	4.6
Bromomethane	ND	4.6
Vinyl Chloride	ND	4.6
Chloroethane	ND	4.6
Methylene Chloride	ND	2.8
Trichlorofluoromethane	ND	4.6
1,1-Dichloroethene	ND	1.8
1,1-Dichloroethane	ND	4.6
trans-1,2-Dichloroethene	ND	4.6
cis-1,2-Dichloroethene	ND	4.6
Chloroform	ND	4.6
1,2-Dichloroethane	ND	1.8
1,1,1-Trichloroethane	ND	4.6
Carbon Tetrachloride	ND	1.8
Bromodichloromethane	ND	0.9
1,2-Dichloropropane	ND	0.9
cis-1,3-Dichloropropene	ND	4.6
Trichloroethene	ND	0.9
Dibromochloromethane	ND	4.6
1,1,2-Trichloroethane	ND	2.8
Benzene	ND	0.9
trans-1,3-Dichloropropene	ND	4.6
2-Chloroethyl Vinyl Ether	ND	4.6
Bromoform	ND	3.7
Tetrachloroethene	2.9	0.9
1,1,2,2-Tetrachloroethane	ND	0.9
Toluene	0.7J	4.6
Chlorobenzene	ND	4.6
Ethylbenzene	ND	3.7
Xylene (Total)	ND	4.6

Client ID: RC-1_2nd_Flr
 Site: Rexam DSI

Lab Sample No: 237825
 Lab Job No: F104

Date Sampled: 10/26/00
 Date Received: 10/27/00
 Date Analyzed: 10/31/00
 GC Column: DB624
 Instrument ID: VOAMS1.i
 Lab File ID: a10515.d

Matrix: SOIL
 Level: LOW
 Sample Weight: 5.4 g
 Purge Volume: 5.0 ml
 % Moisture: 0.2

VOLATILE ORGANICS - GC/MS
 TENTATIVELY IDENTIFIED COMPOUNDS
 METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. 2-Propanone	6.05	5.4	
2. _____			
3. _____			
4. _____			
5. _____			
6. _____			
7. _____			
8. _____			
9. _____			
10. _____			
11. _____			
12. _____			
13. _____			
14. _____			
15. _____			
16. _____			
17. _____			
18. _____			
19. _____			
20. _____			
21. _____			
22. _____			
23. _____			
24. _____			
25. _____			
26. _____			
27. _____			
28. _____			
29. _____			
30. _____			

TOTAL ESTIMATED CONCENTRATION

5.4

Client ID: RC-1_2nd_Flr
 Site: Rexam DSI

Lab Sample No: 237825
 Lab Job No: F104

Date Sampled: 10/26/00
 Date Received: 10/27/00
 Date Extracted: 10/28/00
 Date Analyzed: 10/31/00
 GC Column: DB-5
 Instrument ID: BNAMS7.i
 Lab File ID: 13266.d

Matrix: SOIL
 Level: LOW
 Sample Weight: 30.0 g
 Extract Final Volume: 2.0 ml
 Dilution Factor: 5.0
 % Moisture: 0

SEMI-VOLATILE ORGANICS - GC/MS
 METHOD 8270C

Parameter	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
N-Nitrosodimethylamine	ND	1700
bis(2-Chloroethyl) ether	ND	170
1,3-Dichlorobenzene	ND	1700
1,4-Dichlorobenzene	ND	1700
1,2-Dichlorobenzene	ND	1700
bis(2-chloroisopropyl) ether	ND	1700
N-Nitroso-di-n-propylamine	ND	170
Hexachloroethane	ND	170
Nitrobenzene	ND	170
Isophorone	ND	1700
bis(2-Chloroethoxy) methane	ND	1700
1,2,4-Trichlorobenzene	ND	170
Naphthalene	ND	1700
Hexachlorobutadiene	ND	330
Hexachlorocyclopentadiene	ND	1700
2-Chloronaphthalene	ND	1700
Dimethylphthalate	ND	1700
Acenaphthylene	ND	1700
2,6-Dinitrotoluene	ND	330
Acenaphthene	ND	1700
2,4-Dinitrotoluene	ND	330
Diethylphthalate	ND	1700
4-Chlorophenyl-phenylether	ND	1700
Fluorene	ND	1700
N-Nitrosodiphenylamine	190 J	1700
4-Bromophenyl-phenylether	ND	1700
Hexachlorobenzene	ND	170
Phenanthrene	120 J	1700
Anthracene	ND	1700
Di-n-butylphthalate	ND	1700
Fluoranthene	280 J	1700
Pyrene	420 J	1700
Benzidine	ND	6700
Butylbenzylphthalate	ND	1700

Client ID: RC-1_2nd_Flr
Site: Rexam DSI

Lab Sample No: 237825
Lab Job No: F104

Date Sampled: 10/26/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/31/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: 13266.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 5.0
% Moisture: 0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
3,3'-Dichlorobenzidine	ND	3300
Benzo(a)anthracene	180	170
Chrysene	2000	1700
bis(2-Ethylhexyl)phthalate	980 J	1700
Di-n-octylphthalate	ND	1700
Benzo(b)fluoranthene	260	170
Benzo(k)fluoranthene	44 J	170
Benzo(a)pyrene	310	170
Indeno(1,2,3-cd)pyrene	ND	170
Dibenz(a,h)anthracene	ND	170
Benzo(g,h,i)perylene	ND	1700

Client ID: RC-1_2nd_Flr
Site: Rexam DSI

Lab Sample No: 237825
Lab Job No: F104

Date Sampled: 10/26/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/31/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: 13266.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 5.0
% Moisture: 0.2

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. Unknown Alkane	21.91	10000	
2. Unknown Alkane	22.38	5600	
3. Unknown Alkane	22.56	14000	
4. Unknown Alkane	23.52	11000	
5. Unknown Alkane	23.78	18000	
6. Unknown Alkane	23.99	12000	
7. Unknown Alkane	24.15	17000	
8. Unknown Alkane	24.36	19000	
9. Unknown Alkane	24.55	15000	
10. Unknown Alkane	24.90	11000	
11. Unknown Alkane	25.15	17000	
12. Unknown Alkane	25.60	15000	
13. Unknown Alkane	25.83	16000	
14. Unknown Alkane	26.33	10000	
15. Unknown Alkane	26.61	19000	
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			
TOTAL ESTIMATED CONCENTRATION		209600	

Client ID: RC-1_2nd_Flr
Site: Rexam DSI

Lab Sample ID: 237825
Lab Job No: F104

Date Sampled: 10/26/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/29/00
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC5.i
Front File ID: pf026323.d
Rear File ID: pr026323.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 0

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>	
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u>	<u>Column</u>
Aroclor-1016		ND	67	R
Aroclor-1221		ND	67	R
Aroclor-1232		ND	67	R
Aroclor-1242		ND	67	R
Aroclor-1248		ND	67	R
Aroclor-1254	420	ND	67	R
Aroclor-1260		ND	67	R
Aroclor-1262		ND	67	R
Aroclor-1268		ND	67	R

Client ID: RC-2_3rd_Flr
Site: Rexam DSI

Lab Sample No: 237826
Lab Job No: F104

Date Sampled: 10/26/00
Date Received: 10/27/00
Date Analyzed: 10/31/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10510.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.0 g
Purge Volume: 5.0 ml
% Moisture: 4

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Chloromethane	ND	5.2
Bromomethane	ND	5.2
Vinyl Chloride	ND	5.2
Chloroethane	ND	5.2
Methylene Chloride	0.8JB	3.1
Trichlorofluoromethane	ND	5.2
1,1-Dichloroethene	ND	2.1
1,1-Dichloroethane	ND	5.2
trans-1,2-Dichloroethene	ND	5.2
cis-1,2-Dichloroethene	ND	5.2
Chloroform	1.8J	5.2
1,2-Dichloroethane	ND	2.1
1,1,1-Trichloroethane	ND	5.2
Carbon Tetrachloride	ND	2.1
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.2
Trichloroethene	0.8J	1.0
Dibromochloromethane	ND	5.2
1,1,2-Trichloroethane	ND	3.1
Benzene	11	1.0
trans-1,3-Dichloropropene	ND	5.2
2-Chloroethyl Vinyl Ether	ND	5.2
Bromoform	ND	4.2
Tetrachloroethene	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	7.2	5.2
Chlorobenzene	ND	5.2
Ethylbenzene	ND	4.2
Xylene (Total)	ND	5.2

Client ID: RC-2_3rd_Flr
Site: Rexam DSI

Lab Sample No: 237826
Lab Job No: F104

Date Sampled: 10/26/00
Date Received: 10/27/00
Date Analyzed: 10/31/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10510.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.0 g
Purge Volume: 5.0 ml
% Moisture: 4.2

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. 2-Propanone	6.05	36	
2. Acetic acid, methyl ester	6.59	6.2	
3. Butanal	8.34	8.3	
4. 2-Butanone	8.56	16	
5. Pentanal	9.92	6.2	
6. C5H10O Ketone	10.74	10	
7. 2-Hexanone	12.82	6.9	
8. C8H16O Ketone	15.38	11	
9. _____			
10. _____			
11. _____			
12. _____			
13. _____			
14. _____			
15. _____			
16. _____			
17. _____			
18. _____			
19. _____			
20. _____			
21. _____			
22. _____			
23. _____			
24. _____			
25. _____			
26. _____			
27. _____			
28. _____			
29. _____			
30. _____			

TOTAL ESTIMATED CONCENTRATION

101

Client ID: RC-2_3rd_Flr
Site: Rexam DSI

Lab Sample No: 237826
Lab Job No: F104

Date Sampled: 10/26/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/31/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: 13268.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 50.0 ml
Dilution Factor: 5.0
% Moisture: 4

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u> <u>Units: ug/kg</u>
N-Nitrosodimethylamine	ND		43000
bis(2-Chloroethyl)ether	ND		4300
1,3-Dichlorobenzene	ND		43000
1,4-Dichlorobenzene	ND		43000
1,2-Dichlorobenzene	ND		43000
bis(2-chloroisopropyl)ether	ND		43000
N-Nitroso-di-n-propylamine	ND		4300
Hexachloroethane	ND		4300
Nitrobenzene	ND		4300
Isophorone	ND		43000
bis(2-Chloroethoxy)methane	ND		43000
1,2,4-Trichlorobenzene	ND		4300
Naphthalene	ND		43000
Hexachlorobutadiene	ND		8700
Hexachlorocyclopentadiene	ND		43000
2-Chloronaphthalene	ND		43000
Dimethylphthalate	ND		43000
Acenaphthylene	ND		43000
2,6-Dinitrotoluene	ND		8700
Acenaphthene	ND		43000
2,4-Dinitrotoluene	ND		8700
Diethylphthalate	ND		43000
4-Chlorophenyl-phenylether	ND		43000
Fluorene	ND		43000
N-Nitrosodiphenylamine	ND		43000
4-Bromophenyl-phenylether	ND		43000
Hexachlorobenzene	ND		4300
Phenanthrene	1000 J		43000
Anthracene	ND		43000
Di-n-butylphthalate	ND		43000
Fluoranthene	2500 J		43000
Pyrene	5400 J		43000
Benzidine	ND		170000
Butylbenzylphthalate	ND		43000

Client ID: RC-2_3rd_Flr
Site: Rexam DSI

Lab Sample No: 237826
Lab Job No: F104

Date Sampled: 10/26/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/31/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: 13268.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 50.0 ml
Dilution Factor: 5.0
% Moisture: 4

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
3,3'-Dichlorobenzidine	ND	87000
Benzo(a)anthracene	ND	4300
Chrysene	ND	43000
bis(2-Ethylhexyl)phthalate	ND	43000
Di-n-octylphthalate	15000 J	43000
Benzo(b)fluoranthene	ND	4300
Benzo(k)fluoranthene	ND	4300
Benzo(a)pyrene	ND	4300
Indeno(1,2,3-cd)pyrene	ND	4300
Dibenz(a,h)anthracene	ND	4300
Benzo(g,h,i)perylene	ND	43000

Client ID: RC-2_3rd_Flr
 Site: Rexam DSI

Lab Sample No: 237826
 Lab Job No: F104

Date Sampled: 10/26/00
 Date Received: 10/27/00
 Date Extracted: 10/28/00
 Date Analyzed: 10/31/00
 GC Column: DB-5
 Instrument ID: BNAMS7.i
 Lab File ID: 13268.d

Matrix: SOIL
 Level: LOW
 Sample Weight: 30.0 g
 Extract Final Volume: 50.0 ml
 Dilution Factor: 5.0
 % Moisture: 4.2

SEMI-VOLATILE ORGANICS - GC/MS
 TENTATIVELY IDENTIFIED COMPOUNDS
 METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. Unknown	28.12	140000	
2. Unknown	28.80	140000	
3. Unknown	29.05	310000	
4. Unknown	29.62	400000	
5. Unknown	30.30	250000	
6. Unknown	30.79	290000	
7. Unknown	31.41	1200000	
8. Unknown	31.58	200000	
9. Unknown	31.84	150000	
10. Unknown	32.24	230000	
11. Unknown	32.56	240000	
12. Unknown	32.85	1200000	
13. Unknown	34.74	370000	
14. Unknown	35.02	230000	
15. Unknown	36.52	190000	
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

5540000

Client ID: RC-2_3rd_Flr
Site: Rexam DSI

Lab Sample ID: 237826
Lab Job No: F104

Date Sampled: 10/26/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/29/00
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC5.i
Front File ID: pf026324.d
Rear File ID: pr026324.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 4

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>	
	Units: ug/kg (Dry Weight)		Limit	
			Units: ug/kg	Column
Aroclor-1016	ND		70	R
Aroclor-1221	ND		70	R
Aroclor-1232	ND		70	R
Aroclor-1242	ND		70	R
Aroclor-1248	ND		70	R
Aroclor-1254	ND		70	R
Aroclor-1260	ND		70	R
Aroclor-1262	ND		70	R
Aroclor-1268	ND		70	R

Client ID: RC-3_3rd_Flr
 Site: Rexam DSI

Lab Sample No: 237827
 Lab Job No: F104

Date Sampled: 10/26/00
 Date Received: 10/27/00
 Date Analyzed: 10/31/00
 GC Column: DB624
 Instrument ID: VOAMS1.i
 Lab File ID: a10511.d

Matrix: SOIL
 Level: LOW
 Sample Weight: 5.4 g
 Purge Volume: 5.0 ml
 % Moisture: 7

VOLATILE ORGANICS - GC/MS
 METHOD 8260B

Parameter	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	1.4JB	3.0
Trichlorofluoromethane	5.9	5.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	0.6J	5.0
1,2-Dichloroethane	ND	2.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	2.0
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	ND	1.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	3.0
Benzene	ND	1.0
trans-1,3-Dichloropropene	ND	5.0
2-Chloroethyl Vinyl Ether	ND	5.0
Bromoform	ND	4.0
Tetrachloroethene	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	2.6J	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	4.0
Xylene (Total)	ND	5.0

SEVERN

TRENT

SERVICES

Client ID: RC-3_3rd_Flr
 Site: Rexam DSI

Lab Sample No: 237827
 Lab Job No: F104

Date Sampled: 10/26/00
 Date Received: 10/27/00
 Date Analyzed: 10/31/00
 GC Column: DB624
 Instrument ID: VOAMS1.i
 Lab File ID: a10511.d

Matrix: SOIL
 Level: LOW
 Sample Weight: 5.4 g
 Purge Volume: 5.0 ml
 % Moisture: 6.8

VOLATILE ORGANICS - GC/MS
 TENTATIVELY IDENTIFIED COMPOUNDS
 METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. 2-Propanone	6.08	5.4	
2. Unknown Alkane/C9H12 Aromatic	15.41	6.2	
3. Coeluting Unknowns	16.14	6.5	
4. Coeluting Unknowns	17.71	7.9	
5. 2,3-dihydro-methyl-1H-Indene isomer	18.04	13	
6. 2,3-dihydro-dimethyl-1H-Indene isomer	18.58	7.6	
7. Naphthalene	18.89	7.5	
8. Tetrahydromethylnaphthalene isomer	19.04	9.2	
9. Tetrahydromethylnaphthalene isomer	19.51	6.6	
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

70

SEVERN

TRENT

SERVICES

Client ID: RC-3_3rd_Flr
 Site: Rexam DSI

Lab Sample No: 237827
 Lab Job No: F104

Date Sampled: 10/26/00
 Date Received: 10/27/00
 Date Extracted: 10/28/00
 Date Analyzed: 11/15/00
 GC Column: DB-5
 Instrument ID: BNAMS7.i
 Lab File ID: 13537.d

Matrix: SOIL
 Level: LOW
 Sample Weight: 30.0 g
 Extract Final Volume: 10.0 ml
 Dilution Factor: 5.0
 % Moisture: 7

SEMI-VOLATILE ORGANICS - GC/MS
 METHOD 8270C

Parameter	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
N-Nitrosodimethylamine	ND	8900
bis(2-Chloroethyl) ether	ND	890
1,3-Dichlorobenzene	ND	8900
1,4-Dichlorobenzene	ND	8900
1,2-Dichlorobenzene	ND	8900
bis(2-chloroisopropyl) ether	ND	8900
N-Nitroso-di-n-propylamine	ND	890
Hexachloroethane	ND	890
Nitrobenzene	ND	890
Isophorone	ND	8900
bis(2-Chloroethoxy) methane	ND	8900
1,2,4-Trichlorobenzene	ND	890
Naphthalene	ND	8900
Hexachlorobutadiene	ND	1800
Hexachlorocyclopentadiene	ND	8900
2-Chloronaphthalene	ND	8900
Dimethylphthalate	ND	8900
Acenaphthylene	ND	8900
2,6-Dinitrotoluene	ND	1800
Acenaphthene	220 J	8900
2,4-Dinitrotoluene	ND	1800
Diethylphthalate	ND	8900
4-Chlorophenyl-phenylether	ND	8900
Fluorene	200 J	8900
N-Nitrosodiphenylamine	ND	8900
4-Bromophenyl-phenylether	ND	8900
Hexachlorobenzene	ND	890
Phenanthrene	1100 J	8900
Anthracene	ND	8900
Di-n-butylphthalate	ND	8900
Fluoranthene	600 J	8900
Pyrene	7400 J	8900
Benzidine	ND	36000
Butylbenzylphthalate	ND	8900

Client ID: RC-3_3rd_Flr
Site: Rexam DSI

Lab Sample No: 237827
Lab Job No: F104

Date Sampled: 10/26/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 11/15/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: 13537.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 10.0 ml
Dilution Factor: 5.0
% Moisture: 7

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
3,3'-Dichlorobenzidine	ND	18000
Benzo(a)anthracene	1800	890
Chrysene	5400 J	8900
bis(2-Ethylhexyl)phthalate	ND	8900
Di-n-octylphthalate	ND	8900
Benzo(b)fluoranthene	1300	890
Benzo(k)fluoranthene	390 J	890
Benzo(a)pyrene	1500	890
Indeno(1,2,3-cd)pyrene	ND	890
Dibenz(a,h)anthracene	ND	890
Benzo(g,h,i)perylene	780 J	8900

Client ID: RC-3_3rd_Flr
 Site: Rexam DSI

Lab Sample No: 237827
 Lab Job No: F104

Date Sampled: 10/26/00
 Date Received: 10/27/00
 Date Extracted: 10/28/00
 Date Analyzed: 11/15/00
 GC Column: DB-5
 Instrument ID: BNAMS7.i
 Lab File ID: 13537.d

Matrix: SOIL
 Level: LOW
 Sample Weight: 30.0 g
 Extract Final Volume: 10.0 ml
 Dilution Factor: 5.0
 % Moisture: 6.8

SEMI-VOLATILE ORGANICS - GC/MS
 TENTATIVELY IDENTIFIED COMPOUNDS
 METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. C19H40 Alkane	19.74	14000	_____
2. Unknown Alkane	20.51	11000	_____
3. Unknown	21.26	8800	_____
4. C16H14 PAH	22.29	9000	_____
5. C16H14 PAH	22.48	17000	_____
6. C16H14 PAH	22.53	12000	_____
7. Unknown	22.67	10000	_____
8. Unknown	23.04	8600	_____
9. C17H16 PAH	23.15	20000	_____
10. C17H16 PAH	23.21	20000	_____
11. Unknown	23.39	9100	_____
12. Unknown	23.66	9500	_____
13. C17H12 PAH	23.85	14000	_____
14. Unknown	24.09	16000	_____
15. Unknown	24.72	9000	_____
16.			_____
17.			_____
18.			_____
19.			_____
20.			_____
21.			_____
22.			_____
23.			_____
24.			_____
25.			_____
26.			_____
27.			_____
28.			_____
29.			_____
30.			_____

TOTAL ESTIMATED CONCENTRATION

188000

Client ID: RC-3_3rd_Flr
 Site: Rexam DSI

Lab Sample ID: 237827
 Lab Job No: F104

Date Sampled: 10/26/00
 Date Received: 10/27/00
 Date Extracted: 10/28/00
 Date Analyzed: 10/29/00
 GC Front Column: DB-5
 GC Rear Column: DB-608
 Instrument ID: PESTGC5.i
 Front File ID: pf026328.d
 Rear File ID: pr026328.d

Matrix: SOIL
 Level: LOW
 Sample Weight: 15 g
 Extract Final Volume: 10.0 ml
 Dilution Factor: 1.0
 % Moisture: 7

ORGANOCHLORINE PCBs - GC/ECD
 METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>	
	Units: ug/kg (Dry Weight)		Limit	Column
	Units: ug/kg		Limit	Column
Aroclor-1016	ND		72	R
Aroclor-1221	ND		72	R
Aroclor-1232	ND		72	R
Aroclor-1242	ND		72	R
Aroclor-1248	ND		72	R
Aroclor-1254	ND		72	R
Aroclor-1260	ND		72	R
Aroclor-1262	ND		72	R
Aroclor-1268	ND		72	R

Client ID: RC-4_4th_Flr
Site: Rexam DSI

Lab Sample No: 237828
Lab Job No: F104

Date Sampled: 10/26/00
Date Received: 10/27/00
Date Analyzed: 10/31/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10512.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.2 g
Purge Volume: 5.0 ml
% Moisture: 4

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	1.1JB	3.0
Trichlorofluoromethane	ND	5.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	2.1J	5.0
1,2-Dichloroethane	ND	2.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	2.0
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	ND	1.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	3.0
Benzene	1.6	1.0
trans-1,3-Dichloropropene	ND	5.0
2-Chloroethyl Vinyl Ether	ND	5.0
Bromoform	ND	4.0
Tetrachloroethene	0.8J	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	6.8	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	4.0
Xylene (Total)	ND	5.0

Client ID: RC-4_4th_Flr
 Site: Rexam DSI

Lab Sample No: 237828
 Lab Job No: F104

Date Sampled: 10/26/00
 Date Received: 10/27/00
 Date Analyzed: 10/31/00
 GC Column: DB624
 Instrument ID: VOAMS1.i
 Lab File ID: a10512.d

Matrix: SOIL
 Level: LOW
 Sample Weight: 5.2 g
 Purge Volume: 5.0 ml
 % Moisture: 4.1

VOLATILE ORGANICS - GC/MS
 TENTATIVELY IDENTIFIED COMPOUNDS
 METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. Unknown	3.97	52	
2. 2-Propanone	6.05	42	
3. 2-Butanone	8.58	20	
4. Unknown	14.69	9.3	
5. Coeluting Unknowns	14.86	12	
6. Unknown Alkane	15.40	31	
7. Unknown	16.10	17	
8. Decahydronaphthalene isomer	16.72	22	
9. Coeluting Unknowns	16.88	17	
10. Unknown Cycloalkane	17.46	21	
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

243

Client ID: RC-4_4th_Flr
Site: Rexam DSI

Lab Sample No: 237828
Lab Job No: F104

Date Sampled: 10/26/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 11/01/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: 13321.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 10.0 ml
Dilution Factor: 25.0
% Moisture: 4

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
N-Nitrosodimethylamine	ND	43000
bis(2-Chloroethyl) ether	ND	4300
1,3-Dichlorobenzene	ND	43000
1,4-Dichlorobenzene	ND	43000
1,2-Dichlorobenzene	ND	43000
bis(2-chloroisopropyl) ether	ND	43000
N-Nitroso-di-n-propylamine	ND	4300
Hexachloroethane	ND	4300
Nitrobenzene	ND	4300
Isophorone	ND	43000
bis(2-Chloroethoxy) methane	ND	43000
1,2,4-Trichlorobenzene	ND	4300
Naphthalene	ND	43000
Hexachlorobutadiene	ND	8700
Hexachlorocyclopentadiene	ND	43000
2-Chloronaphthalene	ND	43000
Dimethylphthalate	ND	43000
Acenaphthylene	ND	43000
2,6-Dinitrotoluene	ND	8700
Acenaphthene	ND	43000
2,4-Dinitrotoluene	ND	8700
Diethylphthalate	ND	43000
4-Chlorophenyl-phenylether	ND	43000
Fluorene	ND	43000
N-Nitrosodiphenylamine	ND	43000
4-Bromophenyl-phenylether	ND	43000
Hexachlorobenzene	ND	4300
Phenanthrene	ND	43000
Anthracene	ND	43000
Di-n-butylphthalate	ND	43000
Fluoranthene	1500 J	43000
Pyrene	6600 J	43000
Benzidine	ND	170000
Butylbenzylphthalate	ND	43000

Client ID: RC-4_4th_Flr
Site: Rexam DSI

Lab Sample No: 237828
Lab Job No: F104

Date Sampled: 10/26/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 11/01/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: 13321.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 10.0 ml
Dilution Factor: 25.0
% Moisture: 4

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
3,3'-Dichlorobenzidine	ND	87000
Benzo(a)anthracene	890 J	4300
Chrysene	1400 J	43000
bis(2-Ethylhexyl)phthalate	ND	43000
Di-n-octylphthalate	ND	43000
Benzo(b)fluoranthene	ND	4300
Benzo(k)fluoranthene	ND	4300
Benzo(a)pyrene	5000	4300
Indeno(1,2,3-cd)pyrene	ND	4300
Dibenz(a,h)anthracene	ND	4300
Benzo(g,h,i)perylene	ND	43000

Client ID: RC-4_4th_Flr
 Site: Rexam DSI

Lab Sample No: 237828
 Lab Job No: F104

Date Sampled: 10/26/00
 Date Received: 10/27/00
 Date Extracted: 10/28/00
 Date Analyzed: 11/01/00
 GC Column: DB-5
 Instrument ID: BNAMS7.i
 Lab File ID: 13321.d

Matrix: SOIL
 Level: LOW
 Sample Weight: 30.0 g
 Extract Final Volume: 10.0 ml
 Dilution Factor: 25.0
 % Moisture: 4.1

SEMI-VOLATILE ORGANICS - GC/MS
 TENTATIVELY IDENTIFIED COMPOUNDS
 METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. Unknown	26.36	70000	
2. Unknown Sterol	28.23	100000	
3. Unknown	31.15	170000	
4. Unknown	32.54	170000	
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

510000

SEVERN

TRENT

SERVICES

Client ID: RC-4_4th_Flr
Site: Rexam DSI

Lab Sample ID: 237828
Lab Job No: F104

Date Sampled: 10/26/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/29/00
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC5.i
Front File ID: pf026325.d
Rear File ID: pr026325.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 4

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u> Units: ug/kg (Dry Weight)	<u>Quantitation</u>	
		Limit Units: ug/kg	<u>Column</u>
Aroclor-1016	ND	70	R
Aroclor-1221	ND	70	R
Aroclor-1232	ND	70	R
Aroclor-1242	ND	70	R
Aroclor-1248	ND	70	R
Aroclor-1254	ND	70	R
Aroclor-1260	ND	70	R
Aroclor-1262	ND	70	R
Aroclor-1268	ND	70	R

Client ID: ES-1_ElShaft_4th
Site: Rexam DSI

Lab Sample No: 237829
Lab Job No: F104

Date Sampled: 10/26/00
Date Received: 10/27/00
Date Analyzed: 10/31/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10513.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.3 g
Purge Volume: 5.0 ml
% Moisture: 40

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Chloromethane	ND	7.8
Bromomethane	ND	7.8
Vinyl Chloride	ND	7.8
Chloroethane	ND	7.8
Methylene Chloride	1.7JB	4.7
Trichlorofluoromethane	ND	7.8
1,1-Dichloroethene	ND	3.1
1,1-Dichloroethane	ND	7.8
trans-1,2-Dichloroethene	2.3J	7.8
cis-1,2-Dichloroethene	7.6J	7.8
Chloroform	ND	7.8
1,2-Dichloroethane	ND	3.1
1,1,1-Trichloroethane	ND	7.8
Carbon Tetrachloride	ND	3.1
Bromodichloromethane	ND	1.6
1,2-Dichloropropane	ND	1.6
cis-1,3-Dichloropropene	ND	7.8
Trichloroethene	8.4	1.6
Dibromochloromethane	ND	7.8
1,1,2-Trichloroethane	ND	4.7
Benzene	3.2	1.6
trans-1,3-Dichloropropene	ND	7.8
2-Chloroethyl Vinyl Ether	ND	7.8
Bromoform	ND	6.3
Tetrachloroethene	12	1.6
1,1,2,2-Tetrachloroethane	ND	1.6
Toluene	11	7.8
Chlorobenzene	ND	7.8
Ethylbenzene	4.1J	6.3
Xylene (Total)	11	7.8

Client ID: ES-1_ElShaft_4th
 Site: Rexam DSI

Lab Sample No: 237829
 Lab Job No: F104

Date Sampled: 10/26/00
 Date Received: 10/27/00
 Date Analyzed: 10/31/00
 GC Column: DB624
 Instrument ID: VOAMS1.i
 Lab File ID: a10513.d

Matrix: SOIL
 Level: LOW
 Sample Weight: 5.3 g
 Purge Volume: 5.0 ml
 % Moisture: 40.4

VOLATILE ORGANICS - GC/MS
 TENTATIVELY IDENTIFIED COMPOUNDS
 METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. C11H24 Alkane	16.13	270	
2. C11H24 Alkane	16.57	220	
3. C11H22 Cycloalkane	16.71	370	
4. C12H26 Alkane	16.79	320	
5. C11H22 Cycloalkane	16.93	470	
6. C12H26 Alkane	17.22	260	
7. C12H24 Cycloalkane	17.33	390	
8. Unknown	17.41	490	
9. Decahydromethylnaphthalene isomer	17.67	380	
10. C13H28 Alkane	17.90	450	
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

3620

Client ID: ES-1_ElShaft_4th
Site: Rexam DSI

Lab Sample No: 237829
Lab Job No: F104

Date Sampled: 10/26/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/30/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: 13258.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 40

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
N-Nitrosodimethylamine	ND	560
bis(2-Chloroethyl) ether	ND	56
1,3-Dichlorobenzene	ND	560
1,4-Dichlorobenzene	ND	560
1,2-Dichlorobenzene	ND	560
bis(2-chloroisopropyl) ether	ND	560
N-Nitroso-di-n-propylamine	ND	56
Hexachloroethane	ND	56
Nitrobenzene	ND	56
Isophorone	ND	560
bis(2-Chloroethoxy) methane	ND	560
1,2,4-Trichlorobenzene	ND	56
Naphthalene	20 J	560
Hexachlorobutadiene	ND	110
Hexachlorocyclopentadiene	ND	560
2-Chloronaphthalene	ND	560
Dimethylphthalate	ND	560
Acenaphthylene	13 J	560
2,6-Dinitrotoluene	ND	110
Acenaphthene	17 J	560
2,4-Dinitrotoluene	ND	110
Diethylphthalate	ND	560
4-Chlorophenyl-phenylether	ND	560
Fluorene	28 J	560
N-Nitrosodiphenylamine	64 J	560
4-Bromophenyl-phenylether	ND	560
Hexachlorobenzene	ND	56
Phenanthrene	240 J	560
Anthracene	60 J	560
Di-n-butylphthalate	200 J	560
Fluoranthene	470 J	560
Pyrene	420 J	560
Benzidine	ND	2200
Butylbenzylphthalate	ND	560

Client ID: ES-1_ElShaft_4th
 Site: Rexam DSI

Lab Sample No: 237829
 Lab Job No: F104

Date Sampled: 10/26/00
 Date Received: 10/27/00
 Date Extracted: 10/28/00
 Date Analyzed: 10/30/00
 GC Column: DB-5
 Instrument ID: BNAMS7.i
 Lab File ID: 13258.d

Matrix: SOIL
 Level: LOW
 Sample Weight: 30.0 g
 Extract Final Volume: 2.0 ml
 Dilution Factor: 1.0
 % Moisture: 40

SEMI-VOLATILE ORGANICS - GC/MS
 METHOD 8270C

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u> <u>Units: ug/kg</u>
3,3'-Dichlorobenzidine	ND		1100
Benzo(a)anthracene	210		56
Chrysene	260 J		560
bis(2-Ethylhexyl)phthalate	3700		560
Di-n-octylphthalate	420 J		560
Benzo(b)fluoranthene	490		56
Benzo(k)fluoranthene	90		56
Benzo(a)pyrene	230		56
Indeno(1,2,3-cd)pyrene	55 J		56
Dibenz(a,h)anthracene	ND		56
Benzo(g,h,i)perylene	74 J		560

Client ID: ES-1_ElShaft_4th
 Site: Rexam DSI

Lab Sample No: 237829
 Lab Job No: F104

Date Sampled: 10/26/00
 Date Received: 10/27/00
 Date Extracted: 10/28/00
 Date Analyzed: 10/30/00
 GC Column: DB-5
 Instrument ID: BNAMS7.i
 Lab File ID: 13258.d

Matrix: SOIL
 Level: LOW
 Sample Weight: 30.0 g
 Extract Final Volume: 2.0 ml
 Dilution Factor: 1.0
 % Moisture: 40.4

SEMI-VOLATILE ORGANICS - GC/MS
 TENTATIVELY IDENTIFIED COMPOUNDS
 METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. Unknown Alkane	24.38	1800	
2. Unknown Alkane	24.97	4900	
3. Unknown Alkane	25.62	2200	
4. Unknown Alkane	26.38	1800	
5. Unknown	26.50	3600	
6. Unknown Alkane	26.65	2100	
7. Unknown Alkane	27.27	2600	
8. Unknown	29.11	3700	
9. Unknown	29.67	3100	
10. Unknown	30.87	1700	
11. Unknown	31.50	7800	
12. Unknown	32.32	2000	
13. Unknown	32.93	9900	
14. Unknown	34.85	10000	
15. Unknown	35.10	3200	
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

60400

Client ID: ES-1_ElShaft_4th
 Site: Rexam DSI

Lab Sample ID: 237829
 Lab Job No: F104

Date Sampled: 10/26/00
 Date Received: 10/27/00
 Date Extracted: 10/28/00
 Date Analyzed: 10/29/00
 GC Front Column: DB-5
 GC Rear Column: DB-608
 Instrument ID: PESTGC5.i
 Front File ID: pf026326.d
 Rear File ID: pr026326.d

Matrix: SOIL
 Level: LOW
 Sample Weight: 15 g
 Extract Final Volume: 10.0 ml
 Dilution Factor: 1.0
 % Moisture: 40

ORGANOCHLORINE PCBs - GC/ECD
 METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>	
	Units: ug/kg (Dry Weight)		Limit	
			Units: ug/kg	Column
Aroclor-1016	ND		110	R
Aroclor-1221	ND		110	R
Aroclor-1232	ND		110	R
Aroclor-1242	ND		110	R
Aroclor-1248	ND		110	R
Aroclor-1254	ND		110	R
Aroclor-1260	ND		110	R
Aroclor-1262	ND		110	R
Aroclor-1268	ND		110	R

Client ID: Trip_Blank-2
Site: Rexam DSI

Lab Sample No: 237830
Lab Job No: F104

Date Sampled: 10/24/00
Date Received: 10/27/00
Date Analyzed: 10/30/00
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v22794.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 624

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u> <u>Limit</u> <u>Units: ug/l</u>
Chloromethane	ND	0.5
Bromomethane	ND	0.3
Vinyl Chloride	ND	0.6
Chloroethane	ND	0.4
Methylene Chloride	ND	0.8
Trichlorofluoromethane	ND	0.3
1,1-Dichloroethene	ND	0.4
1,1-Dichloroethane	ND	0.4
trans-1,2-Dichloroethene	ND	0.4
cis-1,2-Dichloroethene	ND	0.4
Chloroform	ND	0.2
1,2-Dichloroethane	ND	0.2
1,1,1-Trichloroethane	ND	0.3
Carbon Tetrachloride	ND	0.4
Bromodichloromethane	ND	0.2
1,2-Dichloropropane	ND	0.2
cis-1,3-Dichloropropene	ND	0.1
Trichloroethene	ND	0.4
Dibromochloromethane	ND	0.2
1,1,2-Trichloroethane	ND	0.3
Benzene	ND	0.3
trans-1,3-Dichloropropene	ND	0.3
2-Chloroethyl Vinyl Ether	ND	0.5
Bromoform	ND	0.1
Tetrachloroethene	ND	0.3
1,1,2,2-Tetrachloroethane	ND	0.1
Toluene	ND	0.3
Chlorobenzene	ND	0.2
Ethylbenzene	ND	0.3
Xylene (Total)	ND	0.3

Client ID: Trip_Blank-2
 Site: Rexam DSI

Lab Sample No: 237830
 Lab Job No: F104

Date Sampled: 10/24/00
 Date Received: 10/27/00
 Date Analyzed: 10/30/00
 GC Column: DB624
 Instrument ID: VOAMS7.i
 Lab File ID: v22794.d

Matrix: WATER
 Level: LOW
 Purge Volume: 5.0 ml
 Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
 TENTATIVELY IDENTIFIED COMPOUNDS
 METHOD 624

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
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TOTAL ESTIMATED CONCENTRATION

0.0

Client ID: **Field_Blank-1026**
 Site: Rexam DSI

Lab Sample No: 237831
 Lab Job No: F104

Date Sampled: 10/26/00
 Date Received: 10/27/00
 Date Analyzed: 10/31/00
 GC Column: DB624
 Instrument ID: VOAMS7.i
 Lab File ID: v22795.d

Matrix: WATER
 Level: LOW
 Purge Volume: 5.0 ml
 Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 624

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u> <u>Limit</u> <u>Units: ug/l</u>
Chloromethane	ND	0.5
Bromomethane	ND	0.3
Vinyl Chloride	ND	0.6
Chloroethane	ND	0.4
Methylene Chloride	8.6	0.8
Trichlorofluoromethane	ND	0.3
1,1-Dichloroethene	ND	0.4
1,1-Dichloroethane	ND	0.4
trans-1,2-Dichloroethene	ND	0.4
cis-1,2-Dichloroethene	ND	0.4
Chloroform	ND	0.2
1,2-Dichloroethane	ND	0.2
1,1,1-Trichloroethane	ND	0.3
Carbon Tetrachloride	ND	0.4
Bromodichloromethane	ND	0.2
1,2-Dichloropropane	ND	0.2
cis-1,3-Dichloropropene	ND	0.1
Trichloroethene	ND	0.4
Dibromochloromethane	ND	0.2
1,1,2-Trichloroethane	ND	0.3
Benzene	ND	0.3
trans-1,3-Dichloropropene	ND	0.3
2-Chloroethyl Vinyl Ether	ND	0.5
Bromoform	ND	0.1
Tetrachloroethene	ND	0.3
1,1,2,2-Tetrachloroethane	ND	0.1
Toluene	ND	0.3
Chlorobenzene	ND	0.2
Ethylbenzene	ND	0.3
Xylene (Total)	ND	0.3

Client ID: **Field_Blank-1026**
 Site: Rexam DSI

Lab Sample No: **237831**
 Lab Job No: F104

Date Sampled: 10/26/00
 Date Received: 10/27/00
 Date Analyzed: 10/31/00
 GC Column: DB624
 Instrument ID: VOAMS7.i
 Lab File ID: v22795.d

Matrix: WATER
 Level: LOW
 Purge Volume: 5.0 ml
 Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 624

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
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TOTAL ESTIMATED CONCENTRATION

0.0

Client ID: Field_Blank-1026
Site: Rexam DSI

Lab Sample No: 237831
Lab Job No: F104

Date Sampled: 10/26/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/31/00
GC Column: DB-5
Instrument ID: BNAMS8.i
Lab File ID: aa2514.d

Matrix: WATER
Level: LOW
Sample Volume: 950 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 625

Parameter	Analytical Result	Method Detection
	Units: ug/l	Limit Units: ug/l
N-Nitrosodimethylamine	ND	0.5
bis(2-Chloroethyl) ether	ND	1.2
1,3-Dichlorobenzene	ND	0.6
1,4-Dichlorobenzene	ND	0.6
1,2-Dichlorobenzene	ND	0.6
bis(2-chloroisopropyl) ether	ND	1.1
N-Nitroso-di-n-propylamine	ND	0.9
Hexachloroethane	ND	0.7
Nitrobenzene	ND	0.9
Isophorone	ND	0.9
bis(2-Chloroethoxy) methane	ND	1.0
1,2,4-Trichlorobenzene	ND	0.6
Naphthalene	ND	0.8
Hexachlorobutadiene	ND	0.6
Hexachlorocyclopentadiene	ND	1.0
2-Chloronaphthalene	ND	0.8
Dimethylphthalate	ND	0.5
Acenaphthylene	ND	0.5
2,6-Dinitrotoluene	ND	0.7
Acenaphthene	ND	0.6
2,4-Dinitrotoluene	ND	0.6
Diethylphthalate	ND	0.4
4-Chlorophenyl-phenylether	ND	0.6
Fluorene	ND	0.8
N-Nitrosodiphenylamine	ND	0.6
4-Bromophenyl-phenylether	ND	1.3
Hexachlorobenzene	ND	0.6
Phenanthrene	ND	0.5
Anthracene	ND	0.3
Di-n-butylphthalate	ND	0.5
Fluoranthene	ND	0.5
Pyrene	ND	0.6
Benzidine	ND	14
Butylbenzylphthalate	ND	0.7

Client ID: **Field_Blank-1026**
Site: Rexam DSI

Lab Sample No: **237831**
Lab Job No: F104

Date Sampled: 10/26/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/31/00
GC Column: DB-5
Instrument ID: BNAMS8.i
Lab File ID: aa2514.d

Matrix: WATER
Level: LOW
Sample Volume: 950 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 625

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	Method Detection
		Limit <u>Units: ug/l</u>
3,3'-Dichlorobenzidine	ND	5.0
Benzo(a)anthracene	ND	0.4
Chrysene	ND	0.7
bis(2-Ethylhexyl)phthalate	ND	2.1
Di-n-octylphthalate	ND	0.3
Benzo(b)fluoranthene	ND	0.4
Benzo(k)fluoranthene	ND	0.7
Benzo(a)pyrene	ND	0.3
Indeno(1,2,3-cd)pyrene	ND	0.5
Dibenz(a,h)anthracene	ND	0.3
Benzo(g,h,i)perylene	ND	0.5

Client ID: **Field_Blank-1026**
 Site: Rexam DSI

Lab Sample No: **237831**
 Lab Job No: **F104**

Date Sampled: 10/26/00
 Date Received: 10/27/00
 Date Extracted: 10/28/00
 Date Analyzed: 10/31/00
 GC Column: DB-5
 Instrument ID: BNAMS8.i
 Lab File ID: aa2514.d

Matrix: WATER
 Level: LOW
 Sample Volume: 950 ml
 Extract Final Volume: 2.0 ml
 Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
 TENTATIVELY IDENTIFIED COMPOUNDS
 METHOD 625

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO SEMI-VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
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TOTAL ESTIMATED CONCENTRATION

0.0

Client ID: **Field_Blank-1026**
 Site: Rexam DSI

Lab Sample ID: **237831**
 Lab Job No: F104

Date Sampled: 10/26/00
 Date Received: 10/27/00
 Date Extracted: 11/08/00
 Date Analyzed: 11/08/00
 GC Column: DB-608
 Instrument ID: PESTGC6.i

Matrix: WATER
 Sample Volume: 620 ml
 Extract Final Volume: 5.0 ml
 Dilution Factor: 1.0
 Lab File ID: nr018577.d

**ORGANOCHLORINE PCBs - GC/ECD
 METHOD 608**

<u>Parameter</u>	Analytical Results		Method Detection
	<u>Units: ug/l</u>		<u>Limit</u> <u>Units: ug/l</u>
Aroclor-1016	ND		0.30
Aroclor-1221	ND		0.30
Aroclor-1232	ND		0.30
Aroclor-1242	ND		0.20
Aroclor-1248	ND		0.30
Aroclor-1254	ND		0.20
Aroclor-1260	ND		0.40
Aroclor-1262	ND		0.20
Aroclor-1268	ND		0.20

Client ID: Field Blank-1026
 Site: Rexam DSI

Lab Sample No: 237831
 Lab Job No: F104

Date Sampled: 10/26/00
 Date Received: 10/27/00

Matrix: WATER
 Level: LOW

METALS ANALYSIS

<u>Analyte</u>	<u>Analytical Result Units: ug/l</u>	<u>Instrument Detection Limit</u>	<u>M</u>
Antimony	ND	4.5	P
Arsenic	ND	3.6	P
Beryllium	ND	0.20	P
Cadmium	ND	0.40	P
Chromium	ND	1.1	P
Copper	ND	2.7	P
Lead	ND	2.1	P
Mercury	ND	0.10	CV
Nickel	ND	1.4	P
Selenium	ND	4.5	P
Silver	ND	1.1	P
Thallium	ND	4.1	P
Zinc	23.8	5.2	P

M Column - Method Code (See Section 2 of Report)

Client ID: EB-4_16-16.5
Site: Rexam DSI

Lab Sample No: 237839
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Analyzed: 10/30/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10469.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.7 g
Purge Volume: 5.0 ml
% Moisture: 8

VOLATILE ORGANICS - GC/MS
METHOD 8260B

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u> <u>Units: ug/kg</u>
Chloromethane	ND		4.8
Bromomethane	ND		4.8
Vinyl Chloride	ND		4.8
Chloroethane	ND		4.8
Methylene Chloride	ND		2.9
Trichlorofluoromethane	ND		4.8
1,1-Dichloroethene	ND		1.9
1,1-Dichloroethane	ND		4.8
trans-1,2-Dichloroethene	ND		4.8
cis-1,2-Dichloroethene	ND		4.8
Chloroform	ND		4.8
1,2-Dichloroethane	ND		1.9
1,1,1-Trichloroethane	ND		4.8
Carbon Tetrachloride	ND		1.9
Bromodichloromethane	ND		1.0
1,2-Dichloropropane	ND		1.0
cis-1,3-Dichloropropene	ND		4.8
Trichloroethene	ND		1.0
Dibromochloromethane	ND		4.8
1,1,2-Trichloroethane	ND		2.9
Benzene	0.6J		1.0
trans-1,3-Dichloropropene	ND		4.8
2-Chloroethyl Vinyl Ether	ND		4.8
Bromoform	ND		3.8
Tetrachloroethene	ND		1.0
1,1,2,2-Tetrachloroethane	ND		1.0
Toluene	1.1J		4.8
Chlorobenzene	ND		4.8
Ethylbenzene	ND		3.8
Xylene (Total)	ND		4.8

Client ID: **EB-4_16-16.5**
 Site: Rexam DSI

Lab Sample No: **237839**
 Lab Job No: F104

Date Sampled: 10/25/00
 Date Received: 10/27/00
 Date Analyzed: 10/30/00
 GC Column: DB624
 Instrument ID: VOAMS1.i
 Lab File ID: a10469.d

Matrix: SOIL
 Level: LOW
 Sample Weight: 5.7 g
 Purge Volume: 5.0 ml
 % Moisture: 7.8

**VOLATILE ORGANICS - GC/MS
 TENTATIVELY IDENTIFIED COMPOUNDS
 METHOD 8260B**

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
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TOTAL ESTIMATED CONCENTRATION		0.0	

SEVERN

TRENT

SERVICES

Client ID: EB-4_16-16.5
 Site: Rexam DSI

Lab Sample No: 237839
 Lab Job No: F104

Date Sampled: 10/25/00
 Date Received: 10/27/00
 Date Extracted: 10/28/00
 Date Analyzed: 10/31/00
 GC Column: DB-5
 Instrument ID: BNAMS7.i
 Lab File ID: 13270.d

Matrix: SOIL
 Level: LOW
 Sample Weight: 30.0 g
 Extract Final Volume: 2.0 ml
 Dilution Factor: 1.0
 % Moisture: 8

SEMI-VOLATILE ORGANICS - GC/MS
 METHOD 8270C

Parameter	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
N-Nitrosodimethylamine	ND	360
bis(2-Chloroethyl) ether	ND	36
1,3-Dichlorobenzene	ND	360
1,4-Dichlorobenzene	ND	360
1,2-Dichlorobenzene	ND	360
bis(2-chloroisopropyl) ether	ND	360
N-Nitroso-di-n-propylamine	ND	36
Hexachloroethane	ND	36
Nitrobenzene	ND	36
Isophorone	ND	360
bis(2-Chloroethoxy) methane	ND	360
1,2,4-Trichlorobenzene	ND	36
Naphthalene	16 J	360
Hexachlorobutadiene	ND	72
Hexachlorocyclopentadiene	ND	360
2-Chloronaphthalene	ND	360
Dimethylphthalate	ND	360
Acenaphthylene	33 J	360
2,6-Dinitrotoluene	ND	72
Acenaphthene	7.8J	360
2,4-Dinitrotoluene	ND	72
Diethylphthalate	ND	360
4-Chlorophenyl-phenylether	ND	360
Fluorene	12 J	360
N-Nitrosodiphenylamine	ND	360
4-Bromophenyl-phenylether	ND	360
Hexachlorobenzene	ND	36
Phenanthrene	110 J	360
Anthracene	32 J	360
Di-n-butylphthalate	ND	360
Fluoranthene	190 J	360
Pyrene	230 J	360
Benzidine	ND	1400
Butylbenzylphthalate	ND	360

Client ID: EB-4 16-16.5
 Site: Rexam DSI

Lab Sample No: 237839
 Lab Job No: F104

Date Sampled: 10/25/00
 Date Received: 10/27/00
 Date Extracted: 10/28/00
 Date Analyzed: 10/31/00
 GC Column: DB-5
 Instrument ID: BNAMS7.i
 Lab File ID: 13270.d

Matrix: SOIL
 Level: LOW
 Sample Weight: 30.0 g
 Extract Final Volume: 2.0 ml
 Dilution Factor: 1.0
 % Moisture: 8

SEMI-VOLATILE ORGANICS - GC/MS
 METHOD 8270C

Parameter	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
3,3'-Dichlorobenzidine	ND	720
Benzo(a)anthracene	120	36
Chrysene	160 J	360
bis(2-Ethylhexyl)phthalate	80 J	360
Di-n-octylphthalate	ND	360
Benzo(b)fluoranthene	180	36
Benzo(k)fluoranthene	74	36
Benzo(a)pyrene	110	36
Indeno(1,2,3-cd)pyrene	39	36
Dibenz(a,h)anthracene	ND	36
Benzo(g,h,i)perylene	31 J	360

Client ID: EB-4_16-16.5
Site: Rexam DSI

Lab Sample No: 237839
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/31/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: 13270.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 7.8

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. Unknown Alkane	23.35	350	
2. Unknown Alkane	23.51	460	
3. Unknown Alkane	24.33	710	
4. Unknown Alkane	24.43	370	
5. Unknown Alkane	24.87	450	
6. Unknown	24.90	570	
7. Unknown Alkane	25.11	410	
8. Unknown Alkane	25.53	350	
9. Unknown	26.40	350	
10. Unknown Alkane	26.53	400	
11. Unknown	28.27	390	
12. Unknown	28.68	510	
13. Unknown	28.93	500	
14. Unknown	31.23	470	
15. Unknown	32.61	650	
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TOTAL ESTIMATED CONCENTRATION

6940

Client ID: EB-4_16-16.5
 Site: Rexam DSI

Lab Sample ID: 237839
 Lab Job No: F104

Date Sampled: 10/25/00
 Date Received: 10/27/00
 Date Extracted: 10/28/00
 Date Analyzed: 10/29/00
 GC Front Column: DB-5
 GC Rear Column: DB-608
 Instrument ID: PESTGC5.i
 Front File ID: pf026327.d
 Rear File ID: pr026327.d

Matrix: SOIL
 Level: LOW
 Sample Weight: 15 g
 Extract Final Volume: 10.0 ml
 Dilution Factor: 1.0
 % Moisture: 8

ORGANOCHLORINE PCBs - GC/ECD
 METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>	
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u>	<u>Column</u>
			<u>Units: ug/kg</u>	
Aroclor-1016	ND		73	R
Aroclor-1221	ND		73	R
Aroclor-1232	ND		73	R
Aroclor-1242	ND		73	R
Aroclor-1248	ND		73	R
Aroclor-1254	ND		73	R
Aroclor-1260	ND		73	R
Aroclor-1262	ND		73	R
Aroclor-1268	ND		73	R

Client ID: EB-4 16-16.5
 Site: Rexam DSI

Lab Sample No: 237839
 Lab Job No: F104

Date Sampled: 10/25/00
 Date Received: 10/27/00

Matrix: SOLID
 Level: LOW
 % Moisture: 7.8

METALS ANALYSIS

<u>Analyte</u>	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	<u>Qual</u>	<u>M</u>
Antimony	ND	1.3	N	P
Arsenic	1.6	0.69		P
Beryllium	0.24	0.065	B	P
Cadmium	ND	0.087		P
Chromium	6.7	0.35		P
Copper	11.3	0.80	*	P
Lead	34.2	0.50	*	P
Mercury	0.14	0.018		CV
Nickel	6.9	0.35	B	P
Selenium	ND	0.91		P
Silver	ND	0.30		P
Thallium	ND	1.0		P
Zinc	61.9	1.3		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
 M Column - Method Code (See Section 2 of Report)

STL Envirotech

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

CHAIN OF CUSTODY / ANALYSIS REQUEST

PAGE 1 OF 3

Name (for report and invoice) Mark Roman		Samplers Name (Printed) Stephen Laney (SEL)		Site/Project Identification Bexham DSI, Brownville, NY	
Company Envision Environmental, Inc.		P.O. #		State (Location of site): NJ: ☐ NY: ☒ Other: ☐	
Address 21 Priscilla Lane		Analysis Turnaround Time Standard ☐ Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☒ 2 day		Regulatory Program:	
City Howell		State NJ		Job No: F104	
Phone (732) 886-1664		Fax (732) 886-2925		Sample Numbers	
Sample Identification		Date	Time	Matrix	No. of Cont.
EA-1 6-12"		10-25-00	0930	Scil	2
EB-2 Catch Basin		"	1030	"	2
EB-3 16-16.5'		"	1130	"	2
EB-4 1.5-2'; 16-16.5'		"	1400 1430	"	4
EB-5 1.2-1.7'		"	1530	"	2
EB-6 Outfall		"	1645	"	2
TPE-1		"	1110	"	2
TPE-2		"	1030	"	2
TPE-3		"	1500	"	2
Preservation Used: 1 = ICE, 2 = HCl, 3 = H ₂ SO ₄ , 4 = HNO ₃ , 5 = NaOH		Soil:		Water:	
6 = Other		7 = Other			

Special Instructions: Emergency Rush 2day TAT Fax results to SEL 904-9022 Metals Filtered (Yes/No)?

Relinquished by Stephen Laney	Company HYDRO-GEO CORP.	Date / Time 10-27	Received by (Signature)	Company
Relinquished by (Signature)	Company STC	Date / Time 10-27 12:00	Received by RS	Company STC
Relinquished by (Signature)	Company	Date / Time	Received by (Signature)	Company
Relinquished by	Company	Date / Time	Received by	Company

Laboratory Certifications: New Jersey (12028) New York (11452) Pennsylvania (68-522) Connecticut (PH-0200) Rhode Island (132).

CHAIN OF CUSTODY / ANALYSIS REQUEST

PAGE 1 OF 3

Special Instructions	Emergency	Rush	2 day	TAT	Fax results to SEL asap	FAX 908-904-1421	Water Metals Filtered (Yes/No)?

Special Instructions	Emergency	Company	Date / Time	Received by	Company
Relinquished by 1) Stephen Jaxay		HYDRO-GEO CORP	10-27-00	[Signature]	STL
Relinquished by 2) [Signature]		Company STL	10-27-00	1) [Signature] 2) [Signature]	Company STL
Relinquished by 3) [Signature]		Company		Received by 3)	Company
Relinquished by 4)		Company		Received by 4)	Company

Laboratory Certifications:	New Jersey (12028),	New York (11452),	Pennsylvania (68-522),	Connecticut (PH-0200),	Rhode Island (132).

STL Envirotech

7777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900

Phone: (732) 548-3900 Name (for report and Invoice) Mark Roman Company Envision Environmental			Site/Project Identification Rexam - Brownville, NY State (Location of site): NJ: ☐ NY: ☒ Other: ☐ Regulatory Program:		
P.O. # Analysis Turnaround Time Standard ☐ Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☒ 2 day			ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)		
Address 21 Pricilla Lane City Howell, NJ 07731 State Zip Phone 732-986-1664 Fax			Project No: Job No: F104 Sample Numbers 237825 237826 237827 237828 237829 237830 237831 —		
Sample Identification (feet) Depth Date Time Matrix No. of Cont.			VOC+10 BN +15 PP Metals PCLB		
RC-1 2nd floor 10-26-00 1030 Soil 2			☒		
RC-2 3rd " " " " "			☒		
RC-3 3rd " " " " "			☒		
RC-4 4th " " " " "			☒		
ES-1 Elevator shaft 4th " " " " "			☒		
Trip Blank -2 10-24-00 800EML 2			☒		
Field Blank 10-26- 800EML 4			☒		
Preservation Used: 1 = ICE, 2 = HCl, 3 = H ₂ SO ₄ , 4 = HNO ₃ , 5 = NaOH 6 = Other _____ 7 = Other _____			Soil: Water: 2		

Special Instructions
2 day TAT! Please fax results to Steve Lantry fax 908-904-1421 asap.
Please remit invoice to Mark Roman with data to Hydro-Geo office.

Special Instructions	Relinquished by	Company	Date / Time	Received by	Company
	1) Stephen Jones	HYDRO-GEO CORPORATION	10/27/00	1) [Signature]	STL
	Relinquished by	Company	Date / Time	Received by	Company
	2) [Signature]	STL	10-27-1210	2) [Signature]	STL
	Relinquished by	Company	Date / Time	Received by	Company
	3) [Signature]			3) [Signature]	

STL Envirotech. Laboratory Certification Number: New Jersey (12543)

**INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison**

777 New Durham Road, Edison, New Jersey
08817

Job No: F104

Site: Rexam DSI

Client: Hydro-Geo Corporation

VOAMS

WATER - 624

Lab Sample ID	Date Sampled	Date Received	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
237821	10/25/2000	10/27/2000			10/30/00	EUR	3599
237822	10/25/2000	10/27/2000			↓		1
237824	10/25/2000	10/27/2000					3567

**INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison**

777 New Durham Road, Edison, New Jersey
08817

Job No: F104

Site: Rexam DSI

Client: Hydro-Geo Corporation

VOAMS

WATER - 624

Lab Sample ID	Date Sampled	Date Received	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
237831	10/26/2000	10/27/2000			10/30/00	TKR	3567

INTERNAL CUSTODY RECORD AND LABORATORY CHRONICLE STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: E104

Site: Rexam DSI

Client: Hydro-Geo Corporation

VOAMS

SOLID - 8260B

Lab Sample ID	Date Sampled	Date Received	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
237825	10/26/2000	10/27/2000			10/31/00	KLB	1918
237826	10/26/2000	10/27/2000			↓	FM	↓
237827	10/26/2000	10/27/2000			↓	↓	↓
237828	10/26/2000	10/27/2000			↓	↓	↓
237829	10/26/2000	10/27/2000			↓	↓	↓

WATER - 624

Lab Sample ID	Date Sampled	Date Received	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
237823	10/24/2000	10/27/2000			10/30/00	NR	3599
237830	10/24/2000	10/27/2000			↓	↓	3567

INTERNAL CUSTODY RECORD AND LABORATORY CHRONICLE STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: E104

Site: Rexam DSI

Client: Hydro-Geo Corporation

VOAMS

SOLID - 8260B

Lab Sample ID	Date Sampled	Date Received	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
237812	10/25/2000	10/27/2000			10/29/00	KLB	1914
237813	10/25/2000	10/27/2000			↓	↓	↓
237814	10/25/2000	10/27/2000			↓	↓	↓
237815	10/25/2000	10/27/2000			10/30/00	AT	1914
237815MS	10/25/2000	10/27/2000					
237815SD	10/25/2000	10/27/2000					
237816	10/25/2000	10/27/2000			10/30/00	AT	1914
237817	10/25/2000	10/27/2000			↓	↓	↓
237818	10/25/2000	10/27/2000			10/31/00	AT	↓
237819	10/25/2000	10/27/2000			10/30/00	↓	↓
237820	10/25/2000	10/27/2000			↓	↓	↓
237839	10/25/2000	10/27/2000			10/31/00	↓	↓

**INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison**

777 New Durham Road, Edison, New Jersey
08817

Job No: F104

Site: Rexam DSI

Client: Hydro-Geo Corporation

BNAMS

WATER - 625

Lab Sample ID	Date Sampled	Date Received	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
237821	10/25/2000	10/27/2000	10/28/00	S.W.	10-30-00	LE	5891
237822	10/25/2000	10/27/2000	↓	↓	10-31-00	↓	↓
237824	10/25/2000	10/27/2000	↓	↓	↓	↓	↓

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: F104

Site: Rexam DSI

Client: Hydro-Geo Corporation

BNAMS

WATER - 625

Lab Sample ID	Date Sampled	Date Received	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
237831	10/26/2000	10/27/2000	10/28/00	S.W.	10-31-00	LE	5891

**INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison**

777 New Durham Road, Edison, New Jersey
08817

Job No: F104

Site: Rexam DSI

Client: Hydro-Geo Corporation

BNAMS

SOLID - 8270C

Lab Sample ID	Date Sampled	Date Received	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
237812	10/25/2000	10/27/2000	10/28/00	O.F.	10-30-00	MA	6924
237813	10/25/2000	10/27/2000	↓	↓	↓	↓	↓
237814	10/25/2000	10/27/2000	↓	↓	11-01-00	MA	↓
237815	10/25/2000	10/27/2000	↓	↓	10-31-00	MA	↓
237816	10/25/2000	10/27/2000	↓	↓	10-30-00	MA	↓
237817	10/25/2000	10/27/2000	↓	↓	10-31-00	MA	↓
237818	10/25/2000	10/27/2000	↓	↓	10-30-00	MA	↓
237819	10/25/2000	10/27/2000	↓	↓	↓	↓	↓
237820	10/25/2000	10/27/2000	↓	↓	11-01-00	MA	↓
237820MS	10/25/2000	10/27/2000	↓	↓	↓	↓	↓
237820SD	10/25/2000	10/27/2000	↓	↓	↓	↓	↓
237839	10/25/2000	10/27/2000	↓	↓	10-31-00	MA	↓

**INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison**

777 New Durham Road, Edison, New Jersey
08817

Job No: F104

Site: Rexam DSI

Client: Hydro-Geo Corporation

BNAMS

SOLID - 8270C

Lab Sample ID	Date Sampled	Date Received	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
237825	10/26/2000	10/27/2000	10/28/00	D.F.	10-31-00	MA	6924
237826	10/26/2000	10/27/2000	↓	↓	↓	↓	↓
237827	10/26/2000	10/27/2000	↓	↓	11-15-00	MA	↓
237828	10/26/2000	10/27/2000	↓	↓	11-01-00	MA	↓
237829	10/26/2000	10/27/2000	↓	↓	10-30-00	MA	↓

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: F104

Site: Rexam DSI

Client: Hydro-Geo Corporation

PESTGC

608

<u>Lab Sample ID</u>	<u>Date Sampled</u>	<u>Date Received</u>	<u>Preparation Date</u>	<u>Technician's Name</u>	<u>Analysis Date</u>	<u>Analyst's Name</u>	<u>QA Batch</u>
<u>WATER</u>							
<u>237831</u>	<u>10/26/2000</u>	<u>10/27/2000</u>	<u>11-8-00</u>	<u>DS</u>	<u>11-8-00</u>	<u>AB</u>	<u>7010</u>

**INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison**

777 New Durham Road, Edison, New Jersey
08817

Job No: F104

Site: Rexam DSI

Client: Hydro-Geo Corporation

PESTGC

8082

Lab Sample ID	Date Sampled	Date Received	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
SOLID							
237814	10/25/2000	10/27/2000	10/28/00	V.P.	10-29-00	SK	7008
237815	10/25/2000	10/27/2000	↓	↓	↓	↓	↓
237820	10/25/2000	10/27/2000	↓	↓	11-1-00	SZ	7005
237825	10/26/2000	10/27/2000	↓	↓	10-29-00	SK	7008
237826	10/26/2000	10/27/2000	↓	↓	↓	↓	↓
237827	10/26/2000	10/27/2000	↓	↓	↓	↓	↓
237828	10/26/2000	10/27/2000	↓	↓	↓	↓	↓
237829	10/26/2000	10/27/2000	↓	↓	↓	↓	↓
237839	10/25/2000	10/27/2000	↓	↓	↓	↓	↓

**INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison**

777 New Durham Road, Edison, New Jersey
08817

Job No: F104

Client: Hydro-Geo Corporation

Sample No.: 237824

Site: Rexam DSI

Date Sampled: 10/25/2000

Date Received: 10/27/2000

Matrix: WATER

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
MERCURY	10/30/00	MP	10/30/00	MP	10425
ANTIMONY	10/30/00	SS	10/31/00	DE	10425
ARSENIC					
LEAD					
SELENIUM					
THALLIUM					
BERYLLIUM					
CADMIUM					
CHROMIUM					
COPPER					
NICKEL					
SILVER					
ZINC					

**INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison**

777 New Durham Road, Edison, New Jersey
08817

Job No: F104

Site: Rexam DSI

Client: Hydro-Geo Corporation

Date Sampled: 10/25/2000

Sample No.: 237822

Date Received: 10/27/2000

Matrix: WATER

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
MERCURY	10/30/00	MP	10/30/00	MP	10425
ANTIMONY	10/30/00	SS	10/31/00	DE	10425
ARSENIC					
LEAD					
SELENIUM					
THALLIUM					
BERYLLIUM					
CADMIUM					
CHROMIUM					
COPPER					
NICKEL					
SILVER					
ZINC					

**INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison**

777 New Durham Road, Edison, New Jersey
08817

Job No: E104

Site: Rexam DSI

Client: Hydro-Geo Corporation

Date Sampled: 10/25/2000

Sample No.: 237821

Date Received: 10/27/2000

Matrix: WATER

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
MERCURY	10/30/00	MP	10/30/00	MP	10425
ANTIMONY	10/30/00	SS	10/31/00	DE	10425
ARSENIC					
LEAD					
SELENIUM					
THALLIUM					
BERYLLIUM					
CADMIUM					
CHROMIUM					
COPPER					
NICKEL					
SILVER					
ZINC					

**INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison**

777 New Durham Road, Edison, New Jersey
08817

Job No.: E104

Site: Rexam DSI

Client: Hydro-Geo Corporation

Date Sampled: 10/25/2000

Sample No.: 237839

Date Received: 10/27/2000

Matrix: SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
MERCURY	10/30/00	BTR	10/30/00	BTR	10423
ARSENIC	10/30/00	CAR	10/31/00	YH	10423
SELENIUM					
THALLIUM					
ANTIMONY					
BERYLLIUM					
CADMIUM					
CHROMIUM					
COPPER					
LEAD					
NICKEL					
SILVER					
ZINC					

**INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison**

777 New Durham Road, Edison, New Jersey
08817

Job No: F104

Site: Rexam DSI

Client: Hydro-Geo Corporation

Date Sampled: 10/25/2000

Sample No.: 237820

Date Received: 10/27/2000

Matrix: SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
MERCURY	10/30/00	BTR	10/30/00	BTR	10423
ARSENIC	10/30/00	CAR	10/31/00	YH	10423
SELENIUM					
THALLIUM					
ANTIMONY					
BERYLLIUM					
CADMIUM					
CHROMIUM					
COPPER					
LEAD					
NICKEL					
SILVER					
ZINC					

**INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison**

777 New Durham Road, Edison, New Jersey
08817

Job No: F104

Site: Rexam DSI

Client: Hydro-Geo Corporation

Date Sampled: 10/25/2000

Sample No.: 237815

Date Received: 10/27/2000

Matrix: SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
MERCURY	10/30/00	BTR	10/30/00	BTR	10423
ARSENIC	10/30/00	CAR	10/31/00	YH	10423
SELENIUM					
THALLIUM					
ANTIMONY					
BERYLLIUM					
CADMIUM					
CHROMIUM					
COPPER					
LEAD					
NICKEL					
SILVER					
ZINC					

**INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison**

777 New Durham Road, Edison, New Jersey
08817

Job No: F104

Site: Rexam DSI

Client: Hydro-Geo Corporation

Date Sampled: 10/25/2000

Sample No.: 237814

Date Received: 10/27/2000

Matrix: SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
MERCURY	10/30/00	BTR	10/30/00	BTR	10423
ARSENIC	10/30/00	CAR	10/31/00	YH	10423
SELENIUM					
THALLIUM					
ANTIMONY					
BERYLLIUM					
CADMIUM					
CHROMIUM					
COPPER					
LEAD					
NICKEL					
SILVER					
ZINC					

**INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison**

777 New Durham Road, Edison, New Jersey
08817

Job No: F104

Site: Rexam DSI

Client: Hydro-Geo Corporation

Date Sampled: 10/25/2000

Sample No.: 237813

Date Received: 10/27/2000

Matrix: SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
MERCURY	10/30/00	BTR	10/30/00	BTR	10423
ARSENIC	10/30/00	CAR	10/31/00	YH	10423
SELENIUM					
THALLIUM					
ANTIMONY					
BERYLLIUM					
CADMIUM					
CHROMIUM					
COPPER					
LEAD					
NICKEL					
SILVER					
ZINC					

**INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison**

777 New Durham Road, Edison, New Jersey
08817

Job No: F104

Site: Rexam DSI

Client: Hydro-Geo Corporation

Date Sampled: 10/25/2000

Sample No.: 237812

Date Received: 10/27/2000

Matrix: SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
MERCURY	10/30/00	BTR	10/30/00	BTR	10423
ARSENIC	10/30/00	CAR	10/31/00	YH	10423
SELENIUM					
THALLIUM					
ANTIMONY					
BERYLLIUM					
CADMIUM					
CHROMIUM					
COPPER					
LEAD					
NICKEL					
SILVER					
ZINC					

Analytical Methodology Summary

Volatile Organics:

Unless otherwise specified, water samples are analyzed for volatile organics by purge and trap GC/MS as specified in EPA Method 624. Drinking water samples are analyzed by EPA Method 524.2. Solid samples are analyzed for volatile organics as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8260B. Water samples are analyzed for volatile organics by purge and trap GC/PID and GC/ELCD as specified in EPA Methods 601 and 602. Solid samples are analyzed by GC/PID and GC/ELCD in accordance with SW-846, 3rd Edition Method 8021B.

Acid and Base/Neutral Extractable Organics:

Unless otherwise specified, water samples are analyzed for acid and/or base/neutral extractable organics by GC/MS in accordance with EPA Method 625. Solids are analyzed for acid and/or base/neutral extractable organics as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8270C.

GC/MS Nontarget Compound Analysis:

Analysis for nontarget compounds is conducted, upon request, in conjunction with GC/MS analyses by EPA Methods 624, 625, 8260B and 8270C. Nontarget compound analysis is conducted using a forward library search of the EPA/NIH/NBS mass spectral library of compounds at the greatest apparent concentration (10% or greater of the nearest internal standard) in each organic fraction (15 for volatile, 15 for base/neutrals and 10 for acid extractables).

Organochlorine Pesticides and PCBs:

Unless otherwise specified, water samples are analyzed for organochlorine pesticides and PCBs by dual column gas chromatography with electron capture detectors as specified in EPA Method 608. Solid samples are analyzed as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8081A for organochlorine pesticides and Method 8082 for PCBs.

Total Petroleum Hydrocarbons:

Water samples are analyzed for petroleum hydrocarbons by I.R. using EPA Method 418.1. Solid samples are prepared for analysis by soxhlet extraction consistent with the March 1990 N.J. DEP "Remedial Investigation Guide" Appendix A, page 52, and analyzed by U.S. EPA Method 418.1

Metals Analysis:

Metals analyses are performed by any of four techniques specified by a Method Code provided on each data report page, as follows:

- P - Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP)
- A - Flame Atomic Absorption
- F - Furnace Atomic Absorption
- CV - Manual Cold Vapor (Mercury)

Water samples are digested and analyzed using EPA methods provided in "Methods for Chemical Analysis of Water and Wastewater" (EPA 600/4-79-020). Solid samples are analyzed as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition); samples are digested according to Method 3050B "Acid Digestion of Soil, Sediments and Sludges."

Specific method references for ICP analyses are water Method 200.7 and solid Method 6010B. Mercury analyses are conducted by the manual cold vapor technique specified by water Method 245.1 and solid Method 7471A. Other specific Atomic Absorption method references are as follows:

Element	Water Test Method		Solid Test Method	
	Flame	Furnace	Flame	Furnace
Aluminum	202.1	202.2	7020	--
Antimony	204.1	204.2	7040	7041
Arsenic	--	206.2	--	7060
Barium	208.1	--	7080	--
Beryllium	210.1	210.2	7090	7091
Cadmium	213.1	213.2	7130	7131
Calcium	215.1	--	7140	--
Chromium, Total	218.1	218.2	7190	7191
Chromium, (+6)	218.4	218.5	7197	7195
Cobalt	219.1	219.2	7200	7201
Copper	220.1	220.2	7210	--
Iron	236.1	236.2	7380	--
Lead	239.1	239.2	7420	7421
Magnesium	242.1	--	7450	--
Manganese	243.1	243.2	7460	--
Nickel	249.1	249.2	7520	--
Potassium	258.1	--	7610	--
Selenium	--	270.2	--	7740
Silver	272.1	272.2	7760	--
Sodium	273.1	--	7770	--
Tin	283.1	283.2	7870	--
Thallium	279.1	279.2	7840	7841
Vanadium	286.1	286.2	7910	7911
Zinc	289.1	289.2	7950	--

Cyanide:

Water samples are analyzed for cyanide using EPA Method 335.3. Cyanide is determined in solid samples as specified in the EPA Contract Laboratory Program IFB dated July 1988, revised February 1989.

Phenols:

Water samples are analyzed for total phenols using EPA Method 420.2. Total phenols are determined in solid samples by preparing the sample as outlined in the EPA Contract Laboratory Program IFB for cyanide, followed by a phenols determination using EPA Method 420.1.

Cleanup of Semivolatile Extracts:

Upon request Method 3611B Alumina Column Cleanup and/or Method 3650B Acid-Base Partition Cleanup are performed to improve detection limits by the removal of saturated hydrocarbon interferences.

Hazardous Waste Characteristics:

Samples for hazardous waste characteristics are analyzed as specified in the U.S. EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition). Specific method references are as follows:

- Ignitability - Method 1020A
- Corrosivity - Water pH Method 9040B
Soil pH Method 9045C
- Reactivity - Chapter 7, Section 7.3.3 and 7.3.4
respectively for hydrogen cyanide and
hydrogen sulfide release
- Toxicity - TCLP Method 1311

Miscellaneous Parameters:

Additional analyses performed on both aqueous and solid samples are in accordance with methods published in the following references:

- Test Methods for Evaluating Solid Wastes, SW-846 3rd Edition, November 1986.
- Standard Methods for the Examination of Water and Wastewater, 17th Edition.
- Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, 1979.

ORGANIC DATA REPORTING QUALIFIERS

- ND - The compound was not detected at the indicated concentration.
- J - Mass spectral data indicates the presence of a compound that meets the identification criteria. The result is less than the specified quantitation limit but greater than zero. The concentration given is an approximate value.
- B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
- P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.
 - * - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

INORGANIC DATA REPORTING QUALIFIERS (SW-846 METHODS ONLY)

- ND - The compound was not detected at the indicated concentration.
- B - Reported value is less than the Method Detection Limit but greater than or equal to the Instrument Detection Limit.
- E - The reported value is estimated because of the presence of interference. See explanatory note in the Nonconformance Summary if the problem applies to all of the samples or on the individual Inorganic Analysis Data Sheet if the problem is isolated.
- M - Duplicate injection precision not met on the Furnace Atomic Absorption analysis.
- N - The spiked sample recovery is not within control limits.
- S - The reported value was determined by the Method of Standard Additions (MSA).
- * - Duplicate Analysis is not within control limits.
- W - Post digestion spike for Furnace Atomic Absorption analysis is out of control.
- + - Correlation coefficient for MSA is less than 0.995.

M Column - Method Qualifiers

- P - Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP).
- A - Flame Atomic Absorption Spectroscopy (FAA).
- F - Graphite Furnace Atomic Absorption Spectroscopy (GFAA).
- CV - Cold Vapor Atomic Absorption Spectroscopy.

NON-CONFORMANCE SUMMARY

STL Envirotech Job Number: F104

Volatile Organics Analysis:

All data conforms with method requirements ____; or

Analysis was not requested ____; or

Non-conformance for the specific samples listed is as follows:

Multiple samples have low IS areas resulting in high
Surrogate recoveries Matrix effect confirmed by reanalysis
(MTHO 8260: QA Batch 1918): % recovery of Toluene is outside of QA
limits in MS. MS/MSD has low IS Areas.

See continuation page if checked ()

Base/Neutral and/or Acid Extractable Organics:

All data conforms with method requirements ____; or

Analysis was not requested ____; or

Non-conformance for the specific samples listed is as follows:

(WB 302): Low recovery of Surrogates #1 + #3 No remaining
volume for re-extraction.
(237827): Low recovery of Surrogates #1 + #2 Confirmed as
matrix effect by re-extraction / analysis.

See continuation page if checked ()

PCBs and/or Organochlorine Pesticides:

All data conforms with method requirements ____; or

Analysis was not requested ____; or

Non-conformance for the specific samples listed is as follows:

(237831): Extracted and analyzed outside of
holding time at client request.

See continuation page if checked ()

Non-conformance Summary, Page 2 of 2
STL Edison Job Number: F104

Metals Analysis:

All data conforms with method requirements ☒; or
Analysis was not requested ☐; or
Non-conformance for the specific samples listed is as follows:

See continuation page if checked ()

Total Petroleum Hydrocarbons Analysis:

All data conforms with method requirements ☒; or
Analysis was not requested ☐; or
Non-conformance for the specific samples listed is as follows:

See continuation page if checked ()

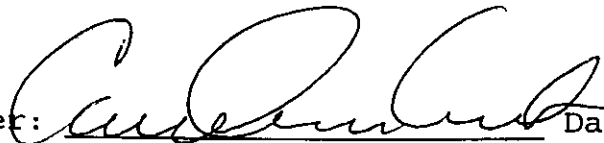
General Chemistry/Disposal Analysis:

All data conforms with method requirements ☒; or
Analysis was not requested ☐; or
Non-conformance for the specific samples listed is as follows:

See continuation page if checked ()

Signature of

Laboratory Manager:



Date:

11-21-00

Client ID: EB-1_6-12
Site: Rexam DSI

Lab Sample No: 237812
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Analyzed: 10/29/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10441.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.0 g
Purge Volume: 5.0 ml
% Moisture: 15

VOLATILE ORGANICS - GC/MS
METHOD 8260B

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Chloromethane	ND	5.8
Bromomethane	ND	5.8
Vinyl Chloride	ND	5.8
Chloroethane	ND	5.8
Methylene Chloride	0.8JB	3.5
Trichlorofluoromethane	ND	5.8
1,1-Dichloroethene	ND	2.3
1,1-Dichloroethane	ND	5.8
trans-1,2-Dichloroethene	ND	5.8
cis-1,2-Dichloroethene	ND	5.8
Chloroform	ND	5.8
1,2-Dichloroethane	ND	2.3
1,1,1-Trichloroethane	ND	5.8
Carbon Tetrachloride	ND	2.3
Bromodichloromethane	ND	1.2
1,2-Dichloropropane	ND	1.2
cis-1,3-Dichloropropene	ND	5.8
Trichloroethene	ND	1.2
Dibromochloromethane	ND	5.8
1,1,2-Trichloroethane	ND	3.5
Benzene	0.9J	1.2
trans-1,3-Dichloropropene	ND	5.8
2-Chloroethyl Vinyl Ether	ND	5.8
Bromoform	ND	4.7
Tetrachloroethene	ND	1.2
1,1,2,2-Tetrachloroethane	ND	1.2
Toluene	3.3J	5.8
Chlorobenzene	ND	5.8
Ethylbenzene	ND	4.7
Xylene (Total)	3.6J	5.8

Client ID: EB-1_6-12
Site: Rexam DSI

Lab Sample No: 237812
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Analyzed: 10/29/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10441.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.0 g
Purge Volume: 5.0 ml
% Moisture: 15.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. Unknown	3.93	16	
2. Cyclohexane, methyl-	10.85	8.5	
3. Unknown Siloxane	16.87	16	
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

40

Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/29oct00.b/a10441.d
Report Date: 01-Nov-2000 16:52

STL Envirotech

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS1.i/8260LOW_SP/10-20-00/29oct00.b/a10441.d
Lab Smp ID: 237812 Client Smp ID: EB-1_6-12
Inj Date : 29-OCT-2000 14:36
Operator : VOAMS 8 Inst ID: VOAMS1.i
Smp Info : 237812;;;5.03;5
Misc Info : F104;1914;KLB *gas alk*
Comment :
Method : /chem/VOAMS1.i/8260LOW_SP/10-20-00/29oct00.b/8260L_00.m
Meth Date : 29-Oct-2000 12:18 johnz Quant Type: ISTD
Cal Date : 20-OCT-2000 18:54 Cal File: a10343.d
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPVOA.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	5.00000	Volume of final extract (mL)
Ws	5.03000	Weight of sample extracted (g)
M	15.00000	% Moisture (not decanted)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/Kg)
6 Methylene Chloride	84	6.704	6.687	(0.664)	14773	0.70395	0.82 (a)
\$ 16 1,2-Dichloroethane-d4 (SUR)	65	9.643	9.627	(0.955)	980453	53.2216	62
28 Benzene	78	9.776	9.745	(0.968)	37625	0.73767	0.86 (a)
* 19 Fluorobenzene	96	10.101	10.085	(1.000)	3089555	50.0000	
\$ 37 Toluene-d8 (SUR)	98	12.037	12.020	(0.876)	1648897	82.4568	96 (R)
38 Toluene	91	12.125	12.109	(0.883)	67187	2.81680	3.3 (a)
* 32 Chlorobenzene-d5	117	13.736	13.719	(1.000)	1031542	50.0000	
M 45 Xylene (Total)	100				33766	3.10890	3.6 (a)
\$ 41 Bromofluorobenzene (SUR)	174	15.021	15.004	(0.924)	342992	84.0176	98 (R)
* 91 1,4-Dichlorobenzene-d4	152	16.262	16.245	(1.000)	185281	50.0000	
44 o-Xylene	106	14.460	14.413	(1.053)	13532	1.27473	1.5 (a)
43 m+p-Xylene	106	14.002	13.955	(1.019)	20234	1.84216	2.2 (a)

confirmed by a10453.

Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/29oct00.b/a10441.d
Report Date: 01-Nov-2000 16:52

QC Flag Legend

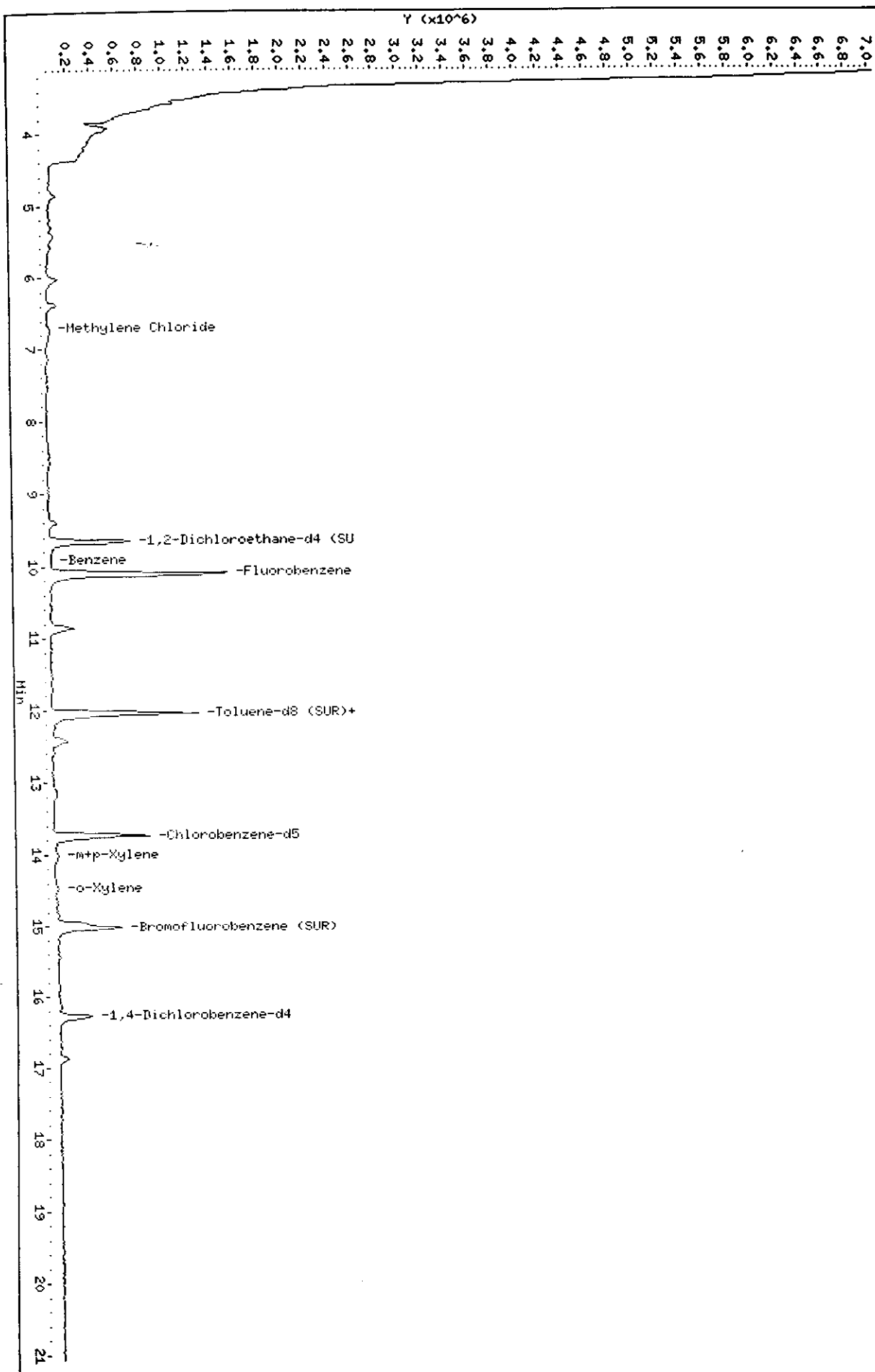
- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- R - Spike/Surrogate failed recovery limits.

~~See~~

Data File: /chem/VOAHS1.1/8260L0M_SP/10-20-00/29oct00.b/a10441.d
Date : 29-OCT-2000 14:36
Client ID: EB-1-6-12
Sample Info: 237812;;5.03;5
Column phase: DB624

Instrument: VOAHS1.1
Operator: VOAHS 8
Column diameter: 0.53

/chem/VOAHS1.1/8260L0M_SP/10-20-00/29oct00.b/a10441.d



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/29oct00.b/a10441.d

Date : 29-OCT-2000 14:36

Client ID: EB-1_6-12

Sample Info: 237812;;;5.03;5

Instrument: VOAMS1.i

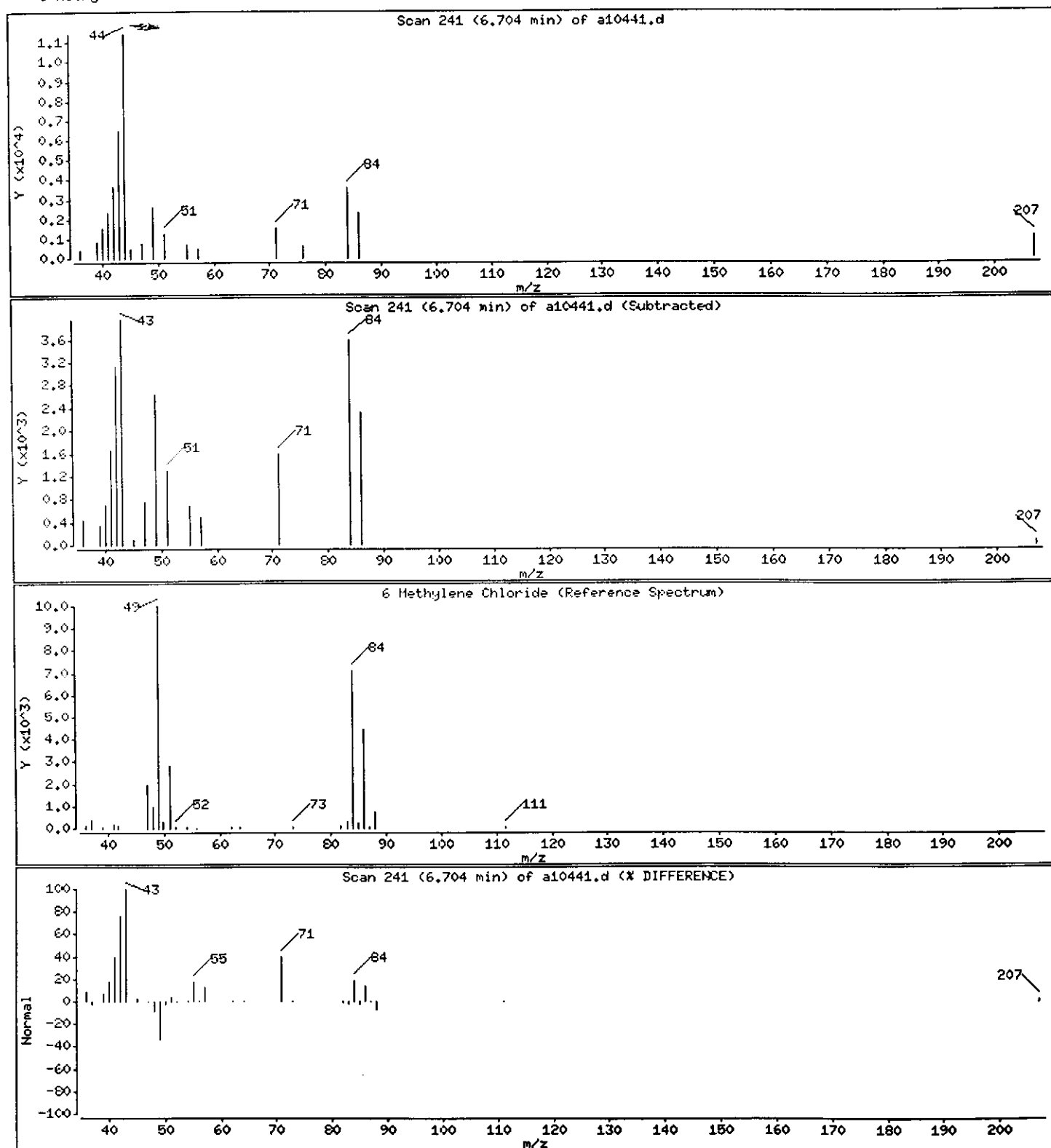
Operator: VOAMS 8

Column diameter: 0.53

Column phase: DB624

Concentration: 0.82 ug/Kg

6 Methylene Chloride



Data File: /chem/VOAMS1.i/8260LOW_SP/19-20-00/29oct00.b/a10441.d

Date : 29-OCT-2000 14:36

Client ID: EB-1_6-12

Sample Info: 237812;;;5.03;5

Instrument: VOAMS1.i

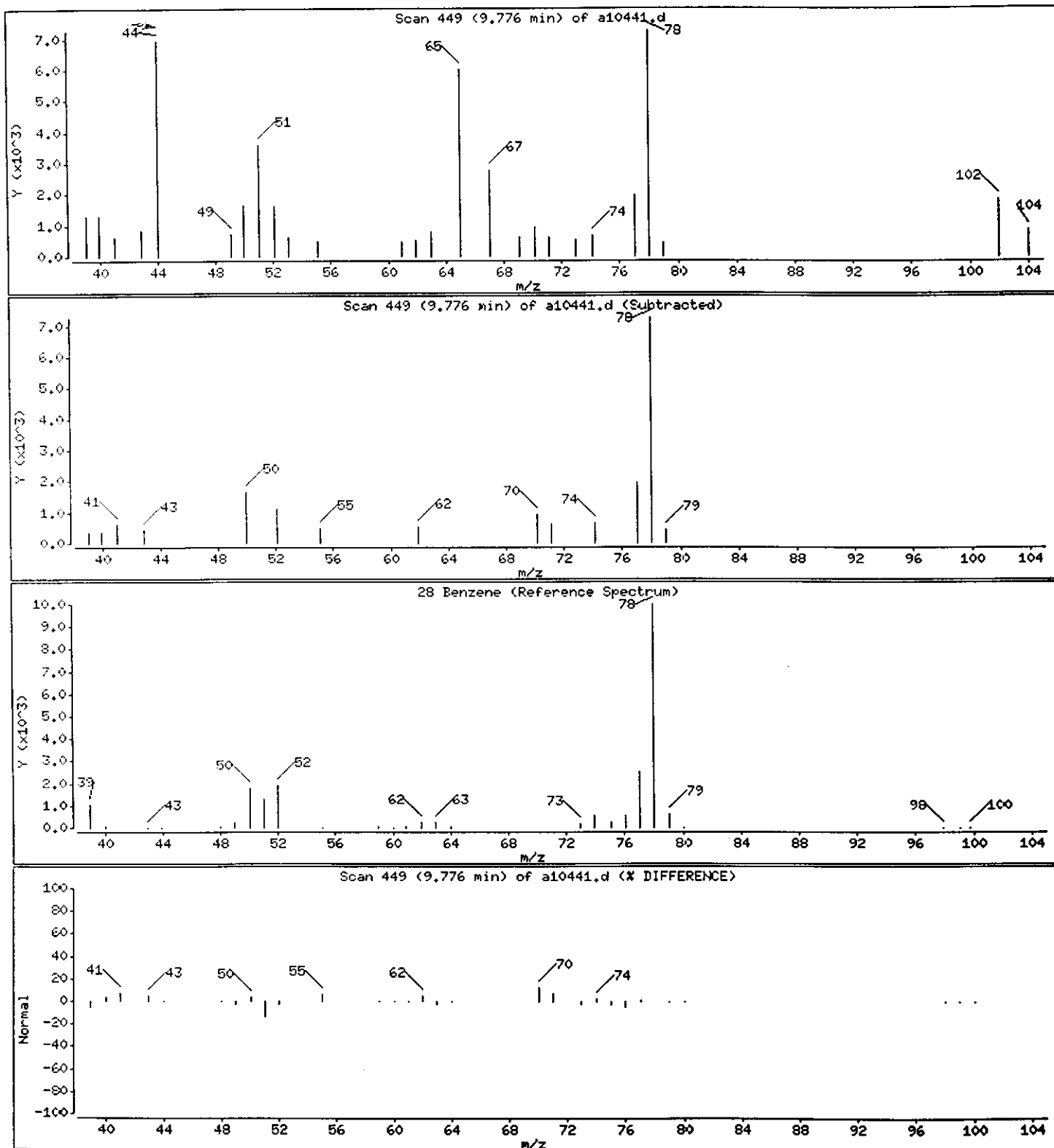
Operator: VOAMS 8

Column diameter: 0.53

Column phase: DB624

28 Benzene

Concentration: 0.86 ug/Kg



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/29oct00,b/a10441.d

Date : 29-OCT-2000 14:36

Client ID: EB-1_6-12

Sample Info: 237812;;;5.03;5

Instrument: VOAMS1.i

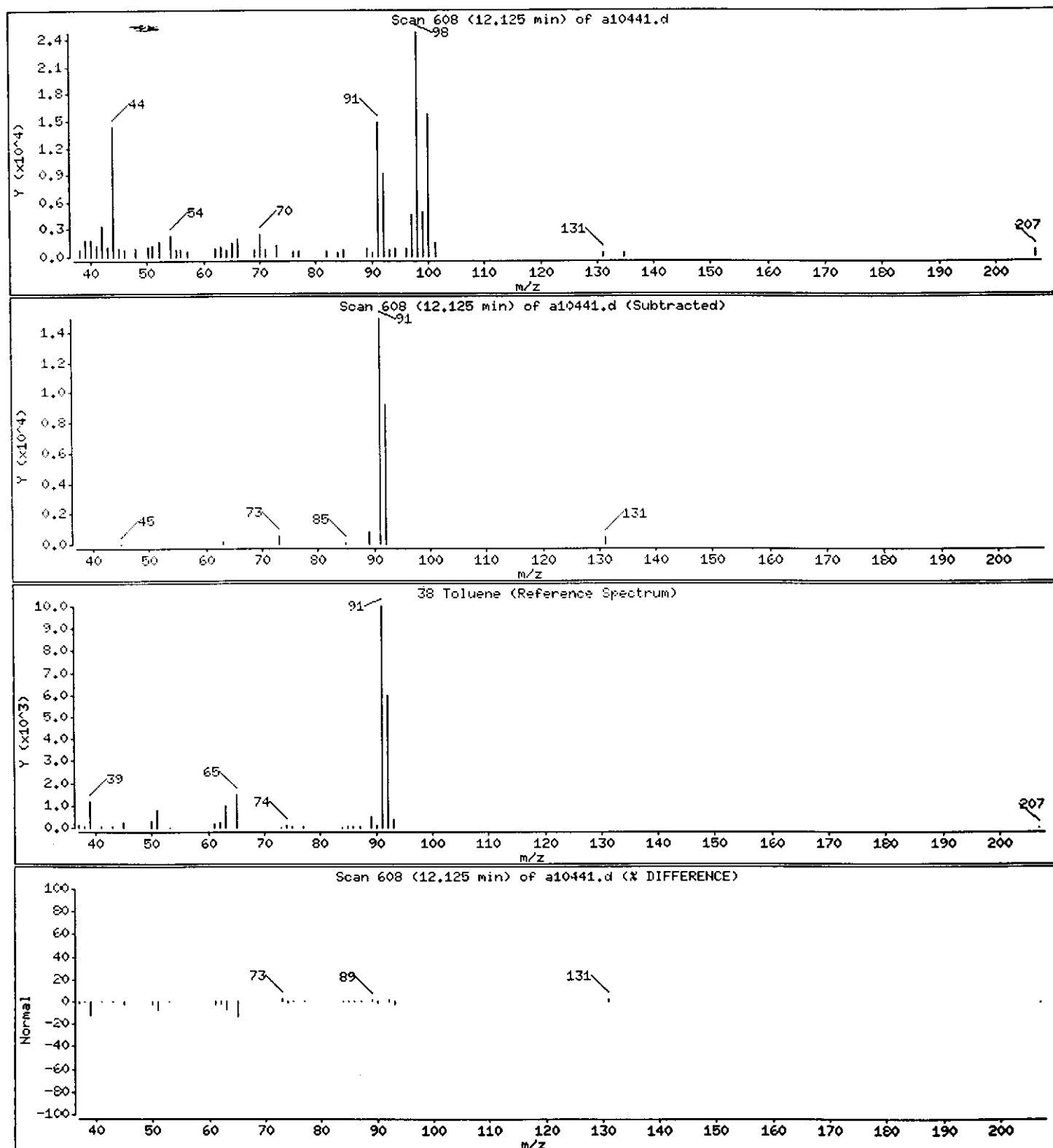
Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

38 Toluene

Concentration: 3.3 ug/Kg



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/29oct00.b/a10441.d

Date : 29-OCT-2000 14:36

Client ID: EB-1_6-12

Instrument: VOAMS1.i

Sample Info: 237812;;;5.03;5

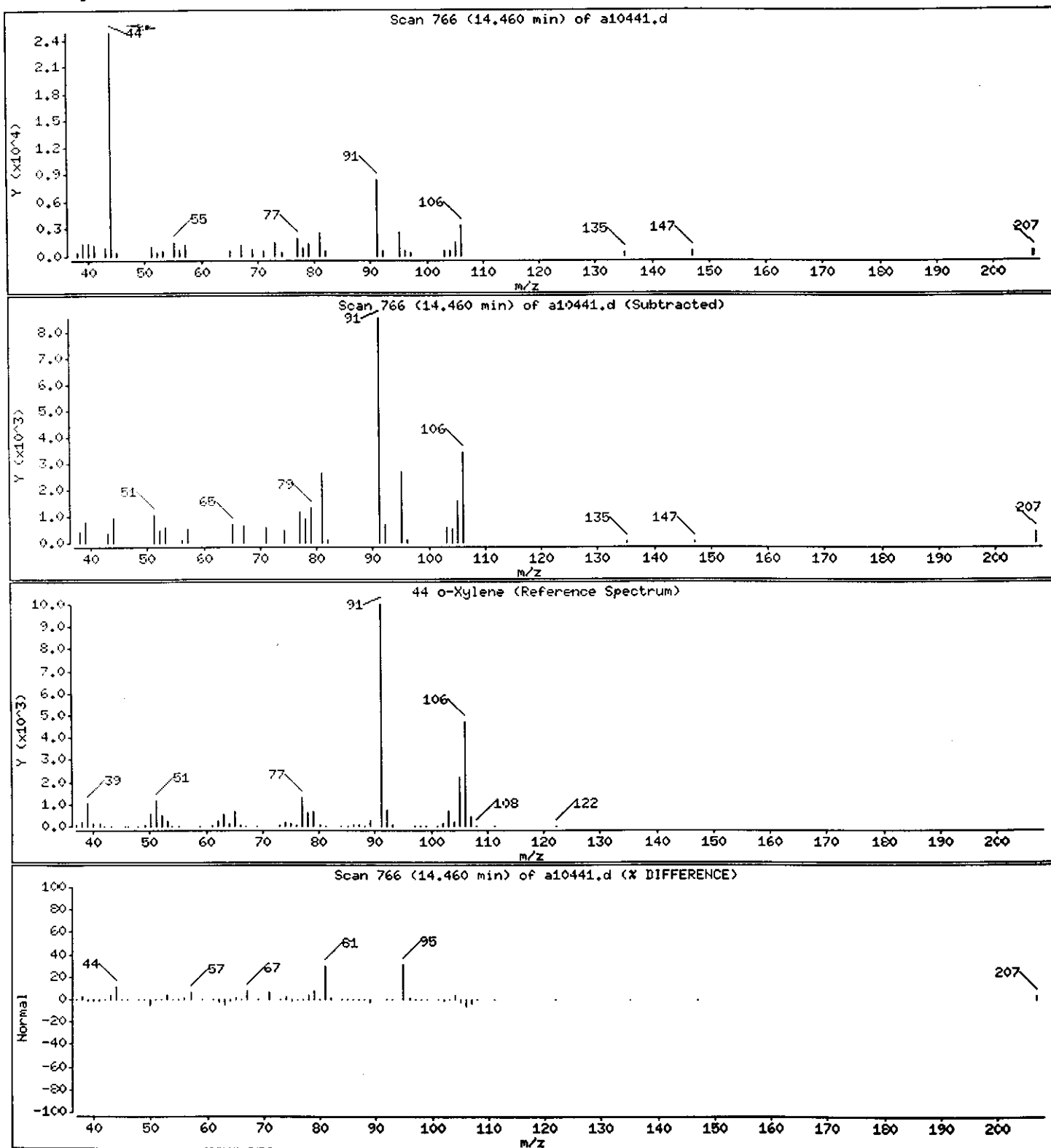
Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

44 o-Xylene

Concentration: 1.5 ug/Kg



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/29oct00.b/a10441.d

Date : 29-OCT-2000 14:36

Client ID: EB-1_6-12

Instrument: VOAMS1.i

Sample Info: 237812;;;5.03;5

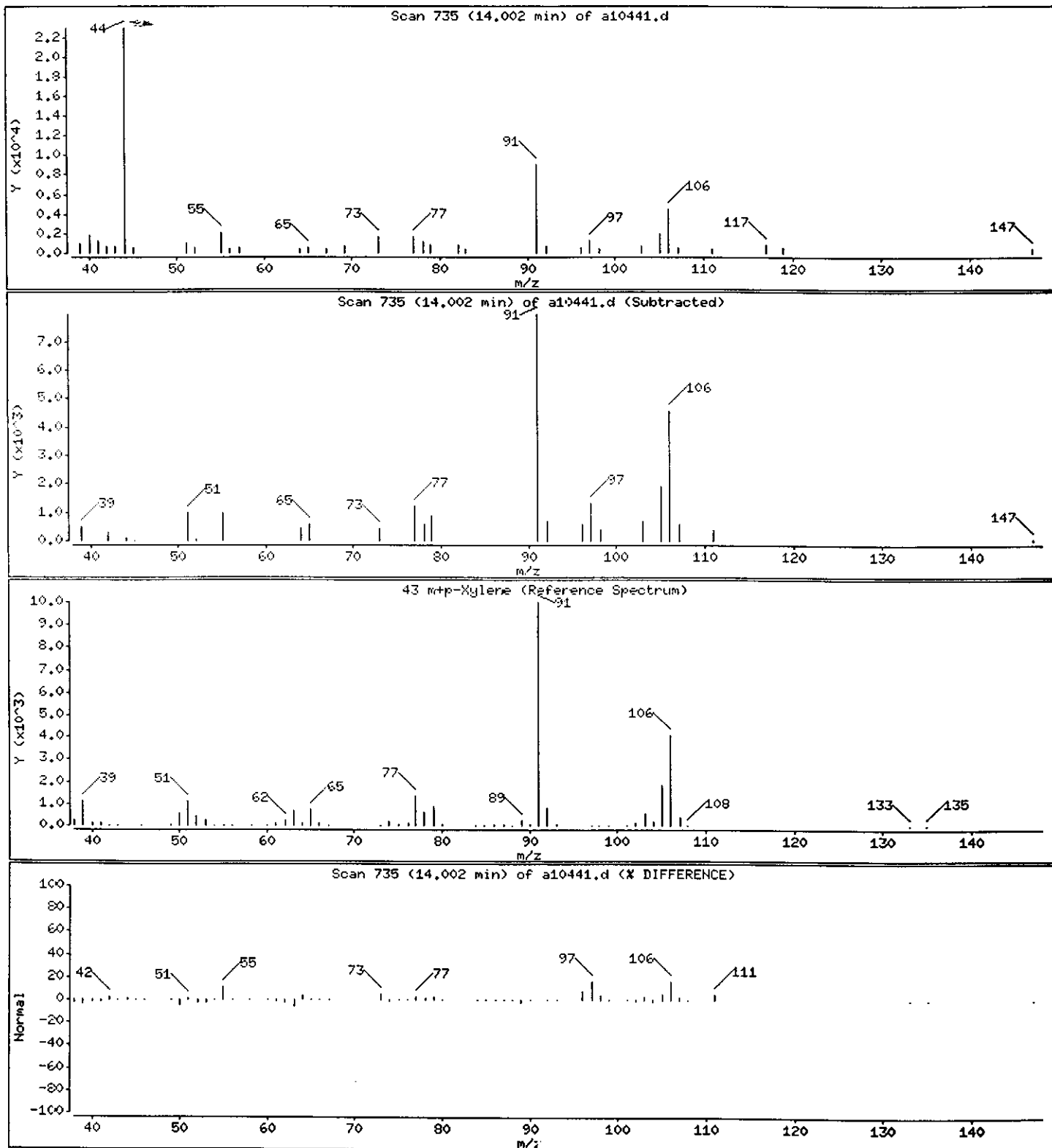
Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

43 m+p-Xylene

Concentration: 2.2 ug/Kg



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/29oct00.b/a10441.d

Date : 29-OCT-2000 14:36

Client ID: EB-1.6-12

Instrument: VOAMS1.i

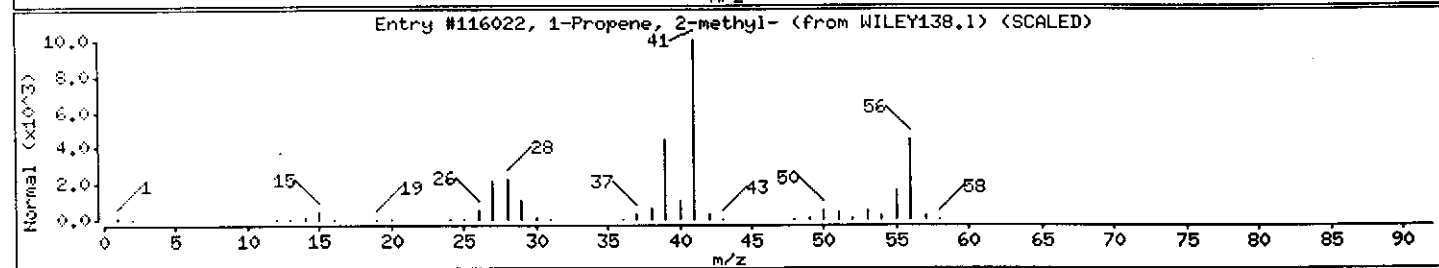
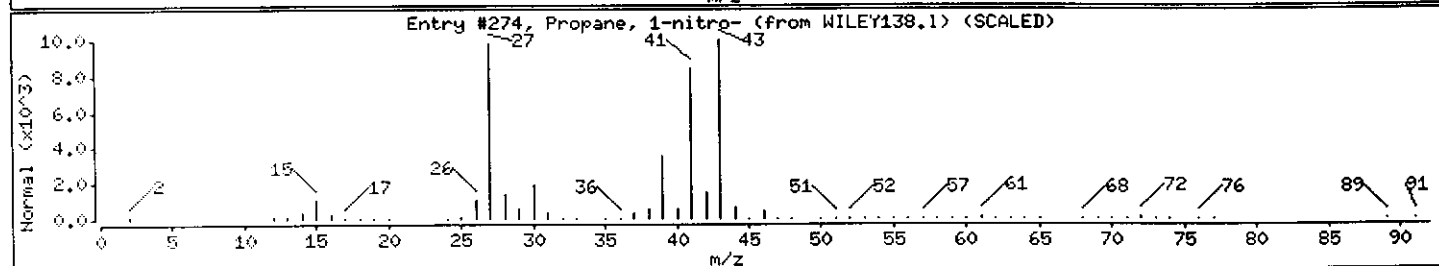
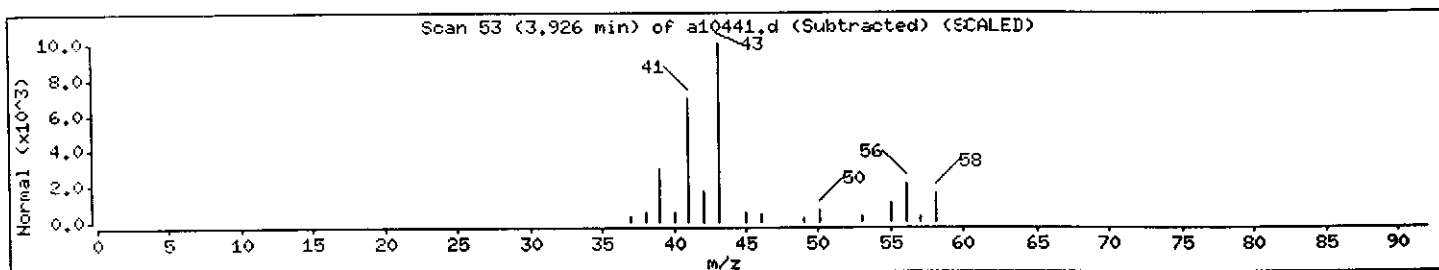
Sample Info: 237812;;;5.03;5

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Propane, 1-nitro-	108-03-2	WILEY138.1	274	37	C3H7NO2	89
1-Propene, 2-methyl-	115-11-7	WILEY138.1	116022	27	C4H8	56



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/29oct00,b/a10441.d

Date : 29-OCT-2000 14:36

Client ID: EB-1_6-12

Instrument: VOAMS1.i

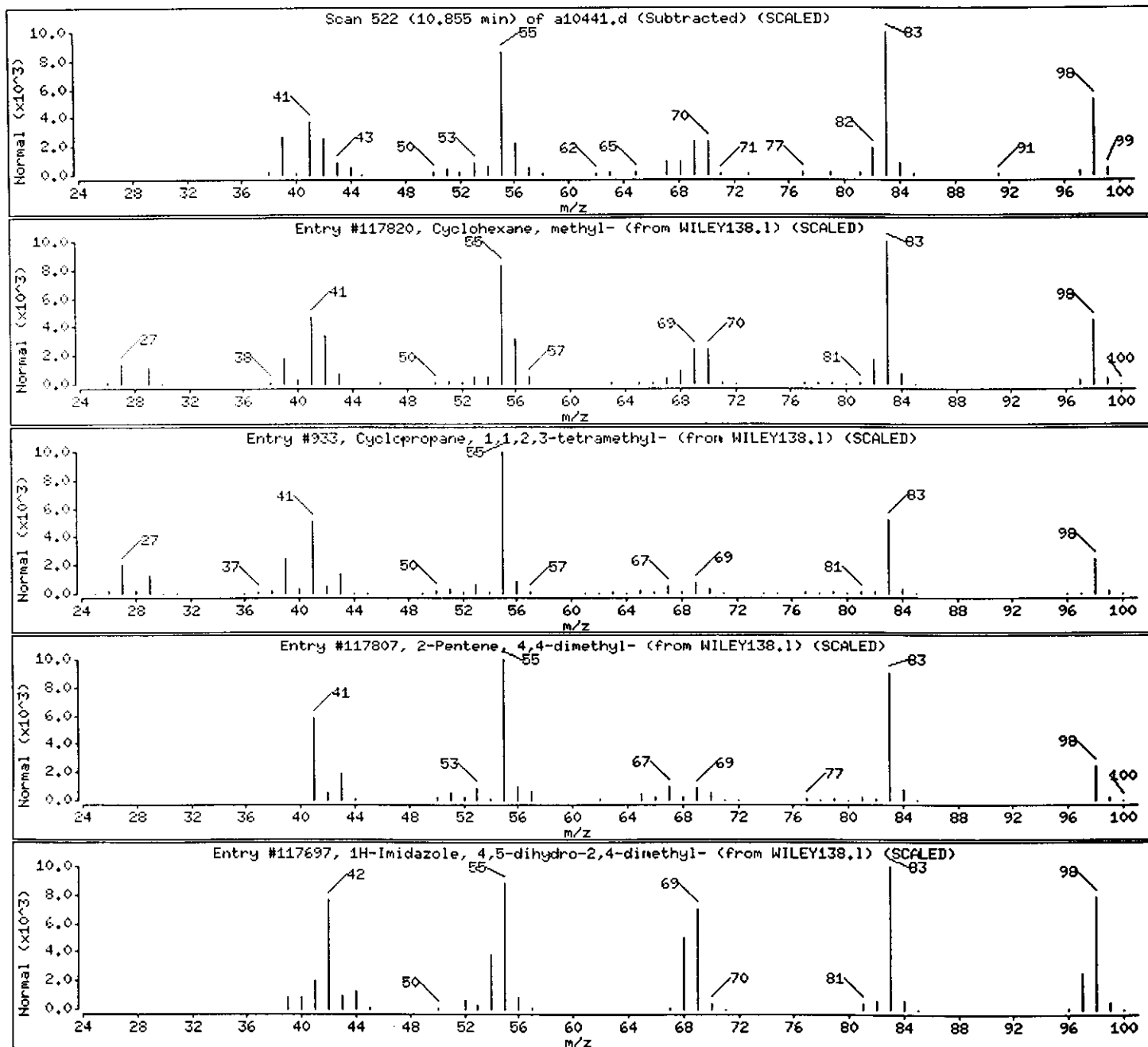
Sample Info: 237812;;;5.03;5

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclohexane, methyl-	108-87-2	WILEY138.1	117820	72	C7H14	98
Cyclopropane, 1,1,2,3-tetramethyl-	74752-93-5	WILEY138.1	933	53	C7H14	98
2-Pentene, 4,4-dimethyl-	26232-98-4	WILEY138.1	117807	53	C7H14	98
1H-Imidazole, 4,5-dihydro-2,4-dimethyl-	930-61-0	WILEY138.1	117697	53	C5H10N2	98



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/29oct00.b/a10441.d

Date : 29-OCT-2000 14:36

Client ID: EB-1_6-12

Instrument: VOAMS1.i

Sample Info: 237812;;;5.03;5

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match

CAS Number

Library

Entry

Quality

Formula

Weight

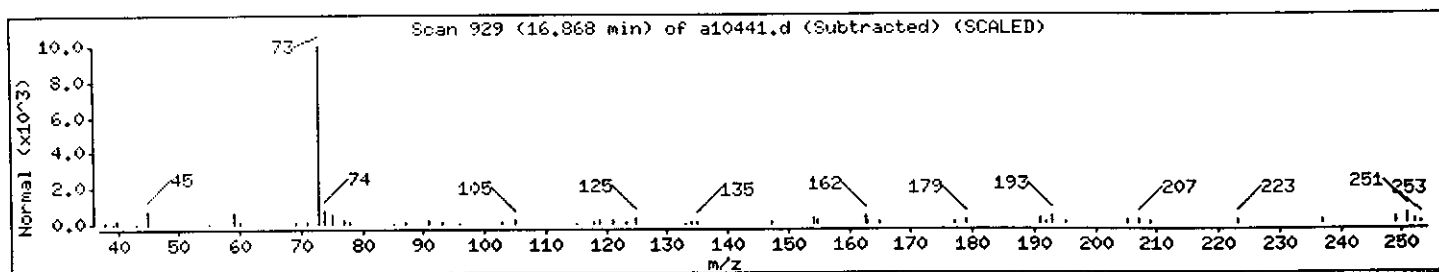
Unknown Siloxane

Unknown

0

0

0



Client ID: EB-2_Catch_Basin
Site: Rexam DSI

Lab Sample No: 237813
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Analyzed: 10/29/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10454.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.4 g
Purge Volume: 5.0 ml
% Moisture: 16

VOLATILE ORGANICS - GC/MS
METHOD 8260B

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Chloromethane	ND	5.5
Bromomethane	ND	5.5
Vinyl Chloride	ND	5.5
Chloroethane	ND	5.5
Methylene Chloride	ND	3.3
Trichlorofluoromethane	ND	5.5
1,1-Dichloroethene	ND	2.2
1,1-Dichloroethane	ND	5.5
trans-1,2-Dichloroethene	ND	5.5
cis-1,2-Dichloroethene	ND	5.5
Chloroform	ND	5.5
1,2-Dichloroethane	ND	2.2
1,1,1-Trichloroethane	ND	5.5
Carbon Tetrachloride	ND	2.2
Bromodichloromethane	ND	1.1
1,2-Dichloropropane	ND	1.1
cis-1,3-Dichloropropene	ND	5.5
Trichloroethene	ND	1.1
Dibromochloromethane	ND	5.5
1,1,2-Trichloroethane	ND	3.3
Benzene	0.9J	1.1
trans-1,3-Dichloropropene	ND	5.5
2-Chloroethyl Vinyl Ether	ND	5.5
Bromoform	ND	4.4
Tetrachloroethene	ND	1.1
1,1,2,2-Tetrachloroethane	ND	1.1
Toluene	1.4J	5.5
Chlorobenzene	ND	5.5
Ethylbenzene	ND	4.4
Xylene (Total)	0.6J	5.5

Client ID: **EB-2_Catch_Basin**
Site: Rexam DSI

Lab Sample No: **237813**
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Analyzed: 10/29/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10454.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.4 g
Purge Volume: 5.0 ml
% Moisture: 16.3

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. Hexanal	12.92	7.5	
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

7.5

Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/29oct00.b/a10454.d
Report Date: 01-Nov-2000 16:52

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VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS1.i/8260LOW_SP/10-20-00/29oct00.b/a10454.d
Lab Smp ID: 237813 Client Smp ID: EB-2_Catch_Basin
Inj Date : 29-OCT-2000 21:24
Operator : VOAMS 8 Inst ID: VOAMS1.i
Smp Info : 237813;;;5.41;5 *µg u/l*
Misc Info : F104;1914;KLB
Comment :
Method : /chem/VOAMS1.i/8260LOW_SP/10-20-00/29oct00.b/8260L_00.m
Meth Date : 29-Oct-2000 12:18 johnz Quant Type: ISTD
Cal Date : 20-OCT-2000 18:54 Cal File: a10343.d
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPVOA.sub
Target Version: 3.50

Concentration Formula: $\text{Amt} * \text{DF} * ((\text{Vt}/\text{Ws}) / ((100-\text{M})/100)) * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	5.00000	Volume of final extract (mL)
Ws	5.41000	Weight of sample extracted (g)
M	16.30000	% Moisture (not decanted)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ug/L)	(ug/Kg)
\$ 16 1,2-Dichloroethane-d4 (SUR)	65	9.655	9.627	(0.955)	1411597	47.4846	52	
28 Benzene	78	9.803	9.745	(0.969)	64973	0.78940	0.87(a)	
* 19 Fluorobenzene	96	10.113	10.085	(1.000)	4985574	50.0000		
\$ 37 Toluene-d8 (SUR)	98	12.049	12.020	(0.876)	3443882	53.3609	59	
38 Toluene	91	12.152	12.109	(0.884)	96393	1.25215	1.4(a)	
* 32 Chlorobenzene-d5	117	13.748	13.719	(1.000)	3329240	50.0000		
M 45 Xylene (Total)	100				20586	0.58727	0.65(a)	
\$ 41 Bromofluorobenzene (SUR)	174	15.018	15.004	(0.923)	1827986	67.9760	75	
* 91 1,4-Dichlorobenzene-d4	152	16.274	16.245	(1.000)	1220492	50.0000		
43 m+p-Xylene	106	14.028	13.955	(1.020)	20586	0.58071	0.64(a)	

QC Flag Legend

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

Data File: /chem/VOAHS1.i/8260LDM_SP/10-20-00/29oct00.b/a10454.d

Date : 29-OCT-2000 21:24

Client ID: EB-2_Catch_Basin

Sample Info: 237813;;5.41;5

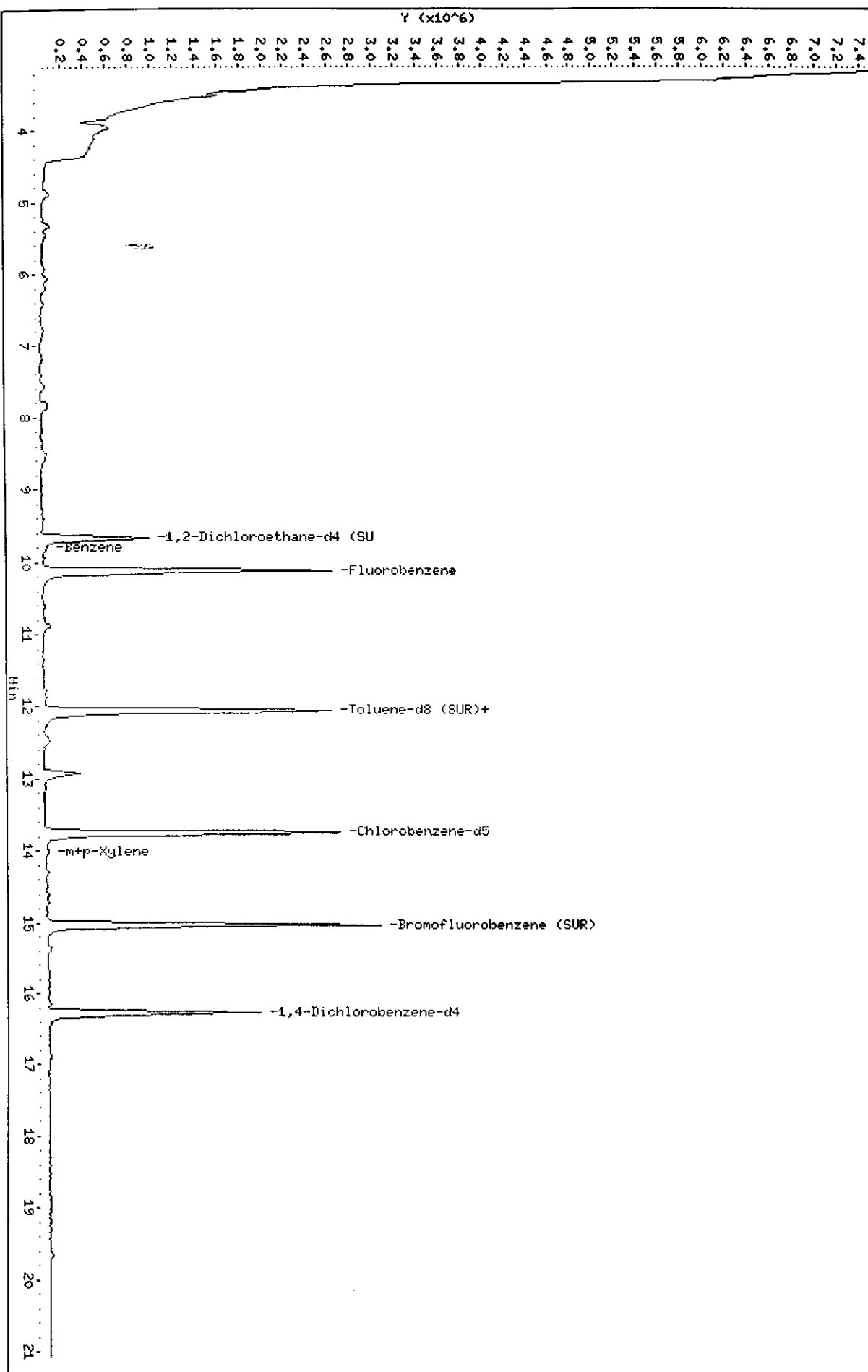
Column phase: DB624

Instrument: VOAHS1.i

Operator: VOAHS 8

Column diameter: 0.53

/chem/VOAHS1.i/8260LDM_SP/10-20-00/29oct00.b/a10454.d



Data File: /chem/VOAHS1.i/8260LOW_SP/10-20-00/29oct00.b/a10454.d

Date : 29-OCT-2000 21:24

Client ID: EB-2_Catch_Basin

Instrument: VOAHS1.i

Sample Info: 237813;;;5.41;5

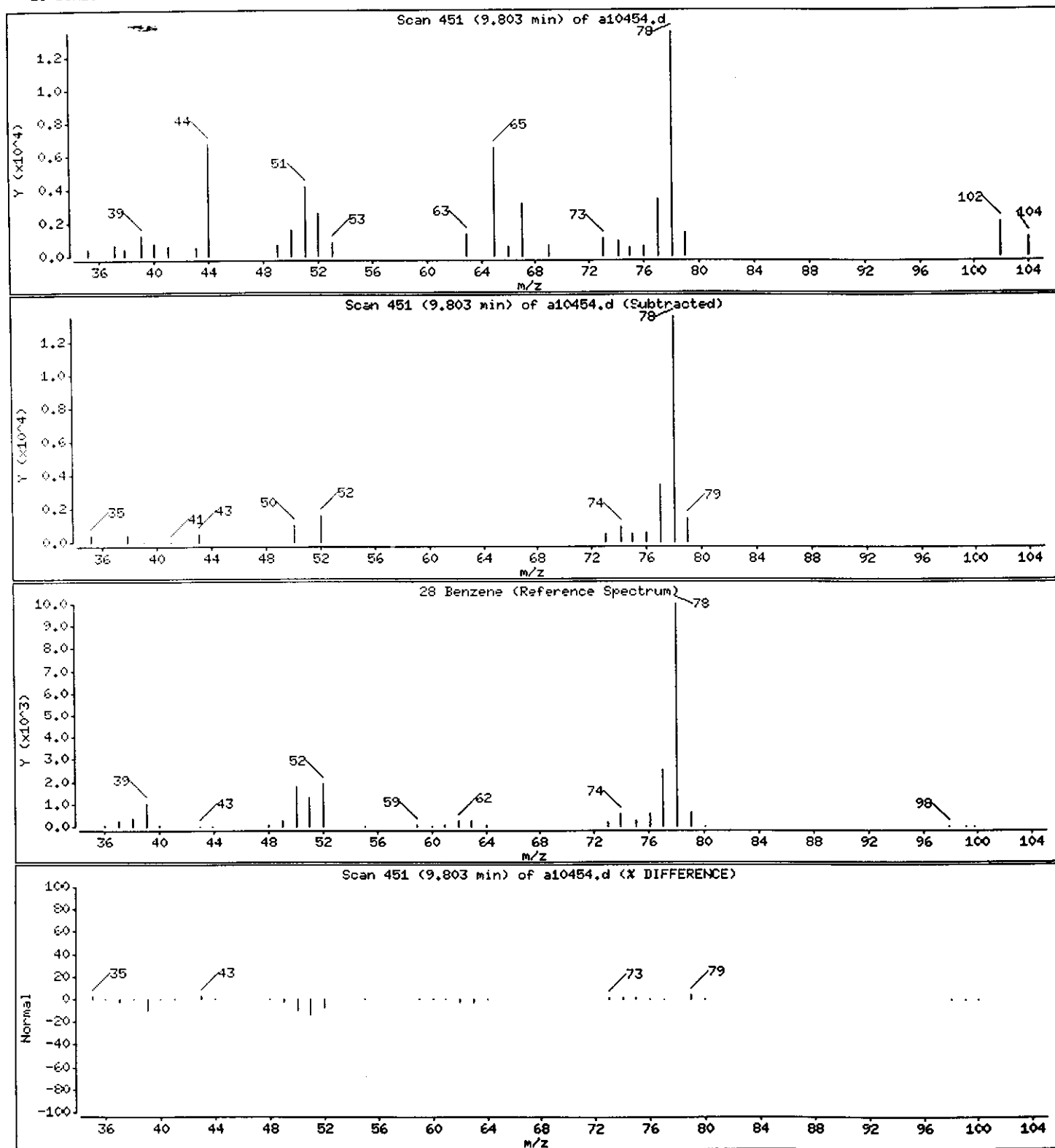
Operator: VOAHS 8

Column phase: DB624

Column diameter: 0.53

28 Benzene

Concentration: 0.87 ug/Kg



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/29oct00.b/a10454.d

Date : 29-OCT-2000 21:24

Client ID: EB-2_Catch_Basin

Sample Info: 237813;;;5.41;5

Instrument: VOAMS1.i

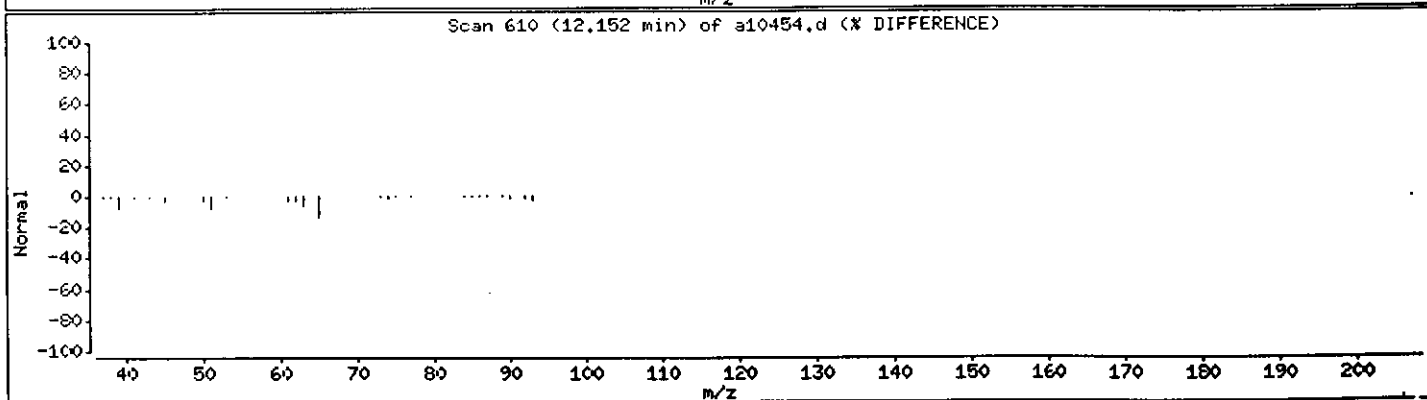
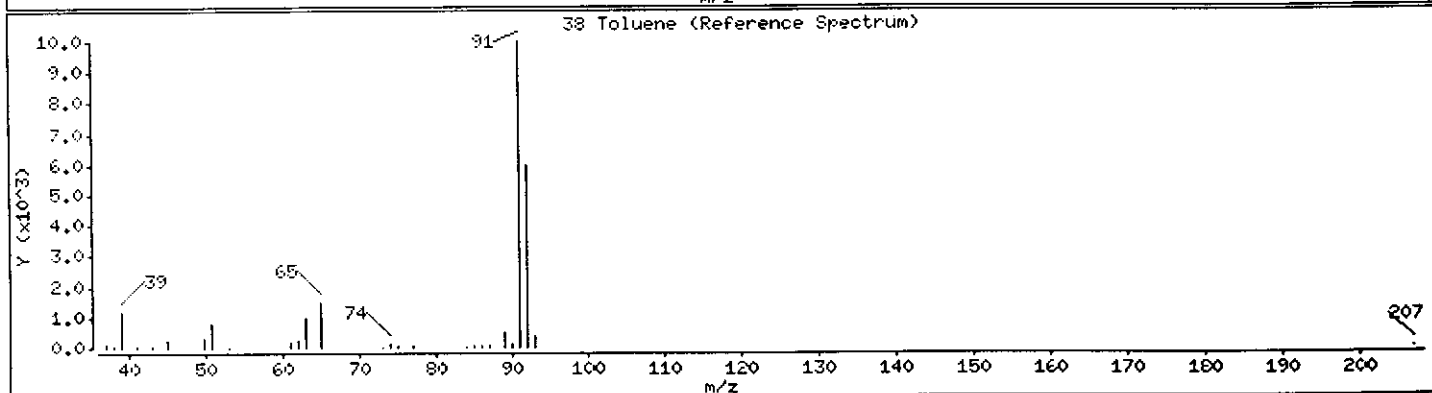
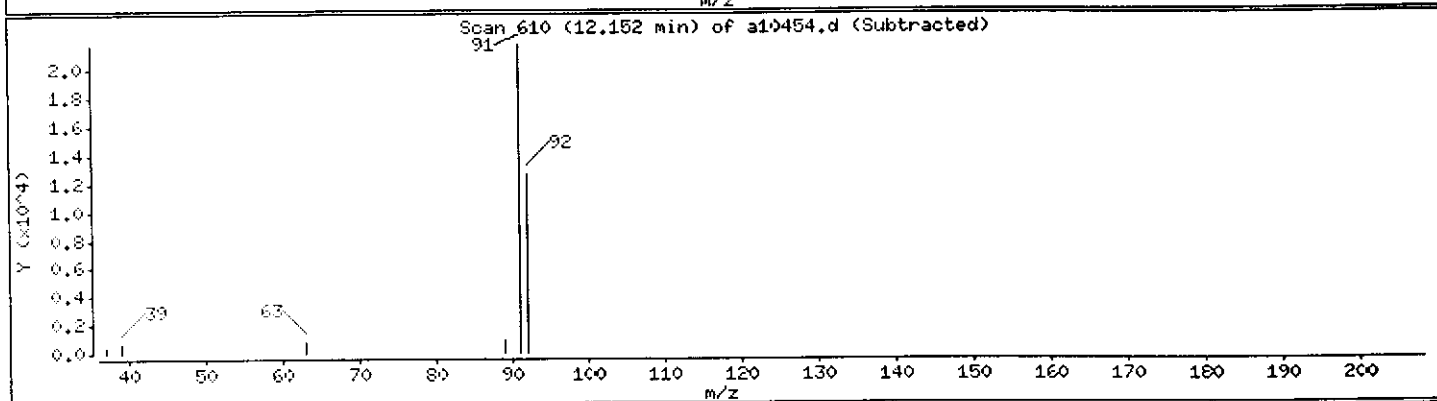
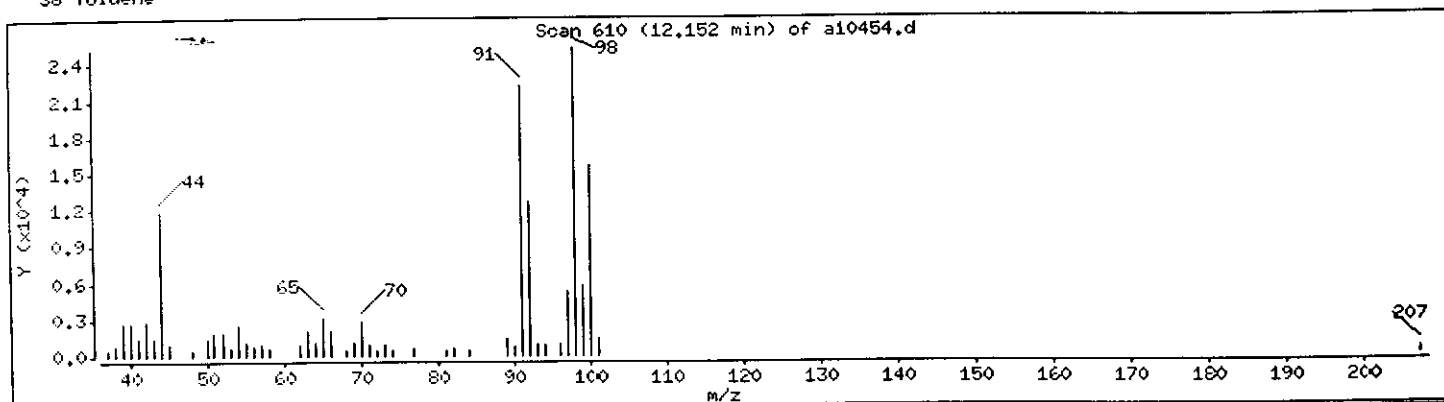
Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

38 Toluene

Concentration: 1.4 ug/Kg



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/29oct00.b/a10454.d

Date : 29-OCT-2000 21:24

Client ID: EB-2_Catch_Basin

Sample Info: 237813;;;5.41;5

Instrument: VOAMS1.i

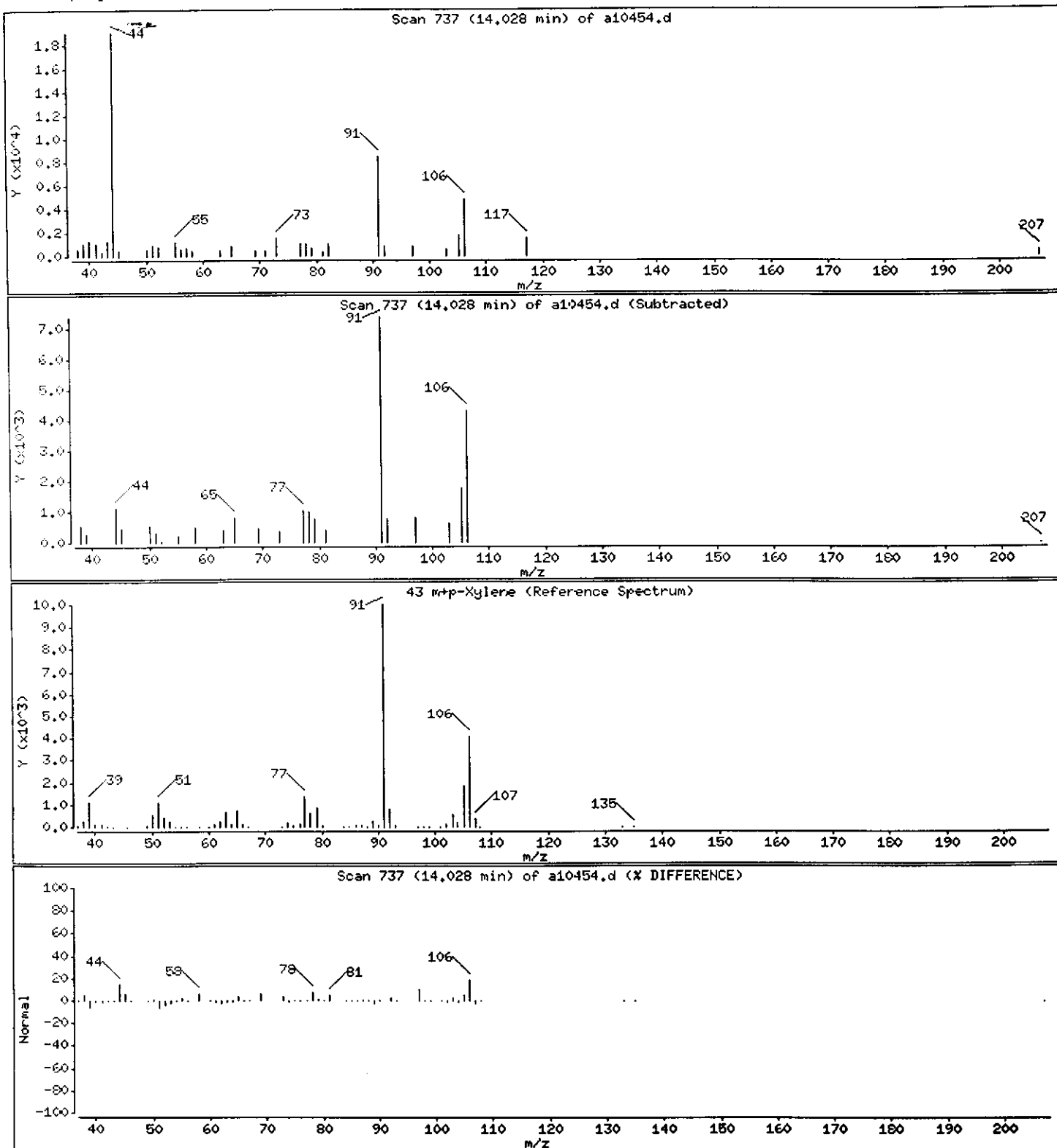
Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

43 m+p-Xylene

Concentration: 0.64 ug/Kg



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/29oct00.b/a10454.d

Date : 29-OCT-2000 21:24

Client ID: EB-2_Catch_Basin

Instrument: VOAMS1.i

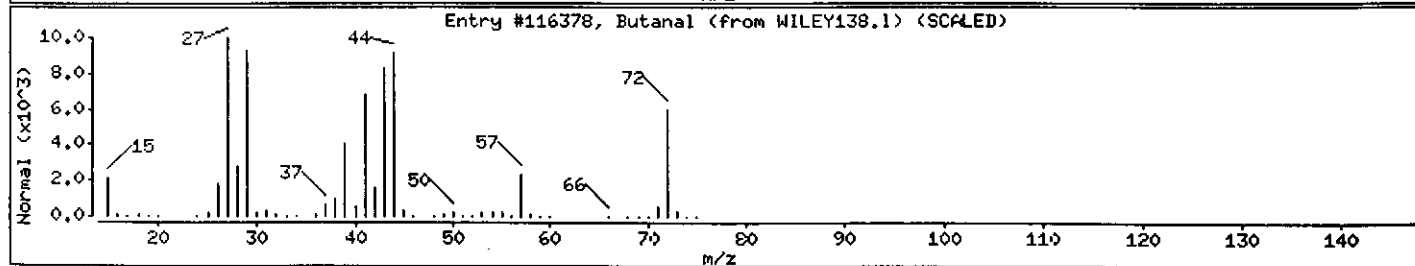
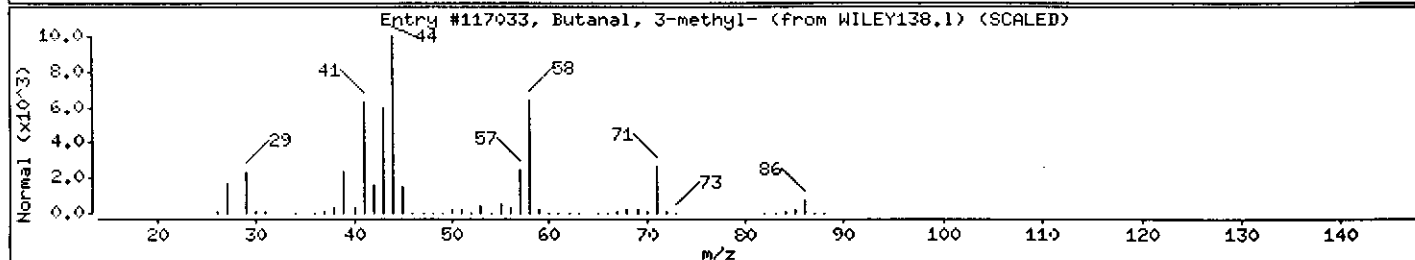
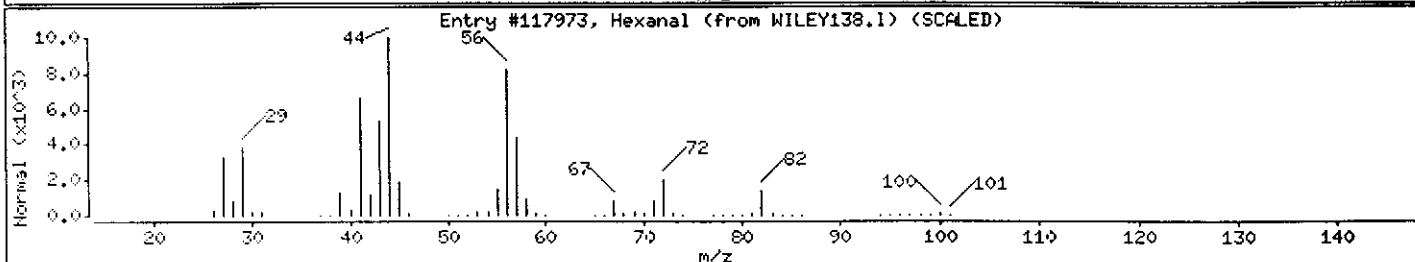
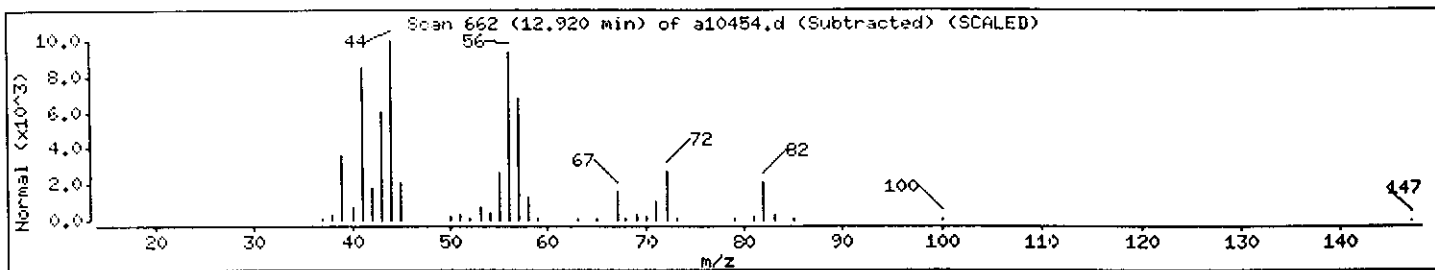
Sample Info: 237813;;;5.41;5

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Hexanal	66-25-1	WILEY138.1	117973	94	C ₆ H ₁₂ O	100
Unknown			0	0		0
Butanal, 3-methyl-	590-86-3	WILEY138.1	117033	35	C ₅ H ₁₀ O	86
Butanal	123-72-8	WILEY138.1	116378	30	C ₄ H ₈ O	72



Client ID: EB-3_16-16.5
Site: Rexam DSI

Lab Sample No: 237814
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Analyzed: 10/29/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10455.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.0 g
Purge Volume: 5.0 ml
% Moisture: 23

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Chloromethane	ND	6.5
Bromomethane	ND	6.5
Vinyl Chloride	ND	6.5
Chloroethane	ND	6.5
Methylene Chloride	1.5JB	3.9
Trichlorofluoromethane	3.7J	6.5
1,1-Dichloroethene	ND	2.6
1,1-Dichloroethane	ND	6.5
trans-1,2-Dichloroethene	ND	6.5
cis-1,2-Dichloroethene	ND	6.5
Chloroform	ND	6.5
1,2-Dichloroethane	ND	2.6
1,1,1-Trichloroethane	ND	6.5
Carbon Tetrachloride	ND	2.6
Bromodichloromethane	ND	1.3
1,2-Dichloropropane	ND	1.3
cis-1,3-Dichloropropene	ND	6.5
Trichloroethene	ND	1.3
Dibromochloromethane	ND	6.5
1,1,2-Trichloroethane	ND	3.9
Benzene	19	1.3
trans-1,3-Dichloropropene	ND	6.5
2-Chloroethyl Vinyl Ether	ND	6.5
Bromoform	ND	5.2
Tetrachloroethene	ND	1.3
1,1,2,2-Tetrachloroethane	ND	1.3
Toluene	18	6.5
Chlorobenzene	ND	6.5
Ethylbenzene	1.8J	5.2
Xylene (Total)	31	6.5

Client ID: EB-3_16-16.5
Site: Rexam DSI

Lab Sample No: 237814
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Analyzed: 10/29/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10455.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.0 g
Purge Volume: 5.0 ml
% Moisture: 23.1

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. Hexanal	12.92	30	
2. Trimethylbenzene isomer	15.42	21	
3. Trimethylbenzene isomer	15.83	28	
4. 2,3-dihydro-1H-Indene/C10H14 Aromatic	16.56	11	
5. C9H8 Aromatic	16.81	15	
6. Unknown Aromatic	17.41	12	
7. Unknown Aromatic	17.54	6.8	
8. Naphthalene	18.85	280	
9. Benzothiophene Isomer	19.01	13	
10. Methyl naphthalene isomer	20.32	9.1	
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

426

Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/29oct00.b/a10455.d
 Report Date: 01-Nov-2000 16:53

STL Envirotech

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS1.i/8260LOW_SP/10-20-00/29oct00.b/a10455.d
 Lab Smp ID: 237814 Client Smp ID: EB-3_16-16.5
 Inj Date : 29-OCT-2000 21:56
 Operator : VOAMS 8 Inst ID: VOAMS1.i
 Smp Info : 237814;;;5.01;5
 Misc Info : F104;1914;KLB *ms ul/v*
 Comment :
 Method : /chem/VOAMS1.i/8260LOW_SP/10-20-00/29oct00.b/8260L_00.m
 Meth Date : 29-Oct-2000 12:18 johnz Quant Type: ISTD
 Cal Date : 20-OCT-2000 18:54 Cal File: a10343.d
 Als bottle: 21
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PPVOA.sub
 Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	5.00000	Volume of final extract (mL)
Ws	5.01000	Weight of sample extracted (g)
M	23.10000	% Moisture (not decanted)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS						
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
							(ug/L)	(ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====	
9 Trichlorofluoromethane	101	5.209	5.165	(0.515)	125310	2.86842	3.7 (a)	
6 Methylene Chloride	84	6.731	6.687	(0.665)	25925	1.16580	1.5 (a)	
\$ 16 1,2-Dichloroethane-d4 (SUR)	65	9.671	9.627	(0.956)	947651	48.5450	63	
28 Benzene	78	9.789	9.745	(0.968)	777818	14.3913	19	
* 19 Fluorobenzene	96	10.114	10.085	(1.000)	3273868	50.0000		
\$ 37 Toluene-d8 (SUR)	98	12.049	12.020	(0.876)	2378714	59.5510	77	
38 Toluene	91	12.138	12.109	(0.883)	657834	13.8070	18	
* 32 Chlorobenzene-d5	117	13.748	13.719	(1.000)	2060502	50.0000		
40 Ethylbenzene	106	13.866	13.837	(1.009)	24607	1.35913	1.8 (a)	
M 45 Xylene (Total)	100				513375	23.6633	31	
\$ 41 Bromofluorobenzene (SUR)	174	15.019	15.004	(0.924)	1097117	70.0351	91	
* 91 1,4-Dichlorobenzene-d4	152	16.260	16.245	(1.000)	710975	50.0000		
44 o-Xylene	106	14.443	14.413	(1.050)	220380	10.3931	13	
43 m+p-Xylene	106	13.985	13.955	(1.017)	292995	13.3543	17	

confirmed by A10470.

Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/29oct00.b/a10455.d
Report Date: 01-Nov-2000 16:53

QC Flag Legend

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

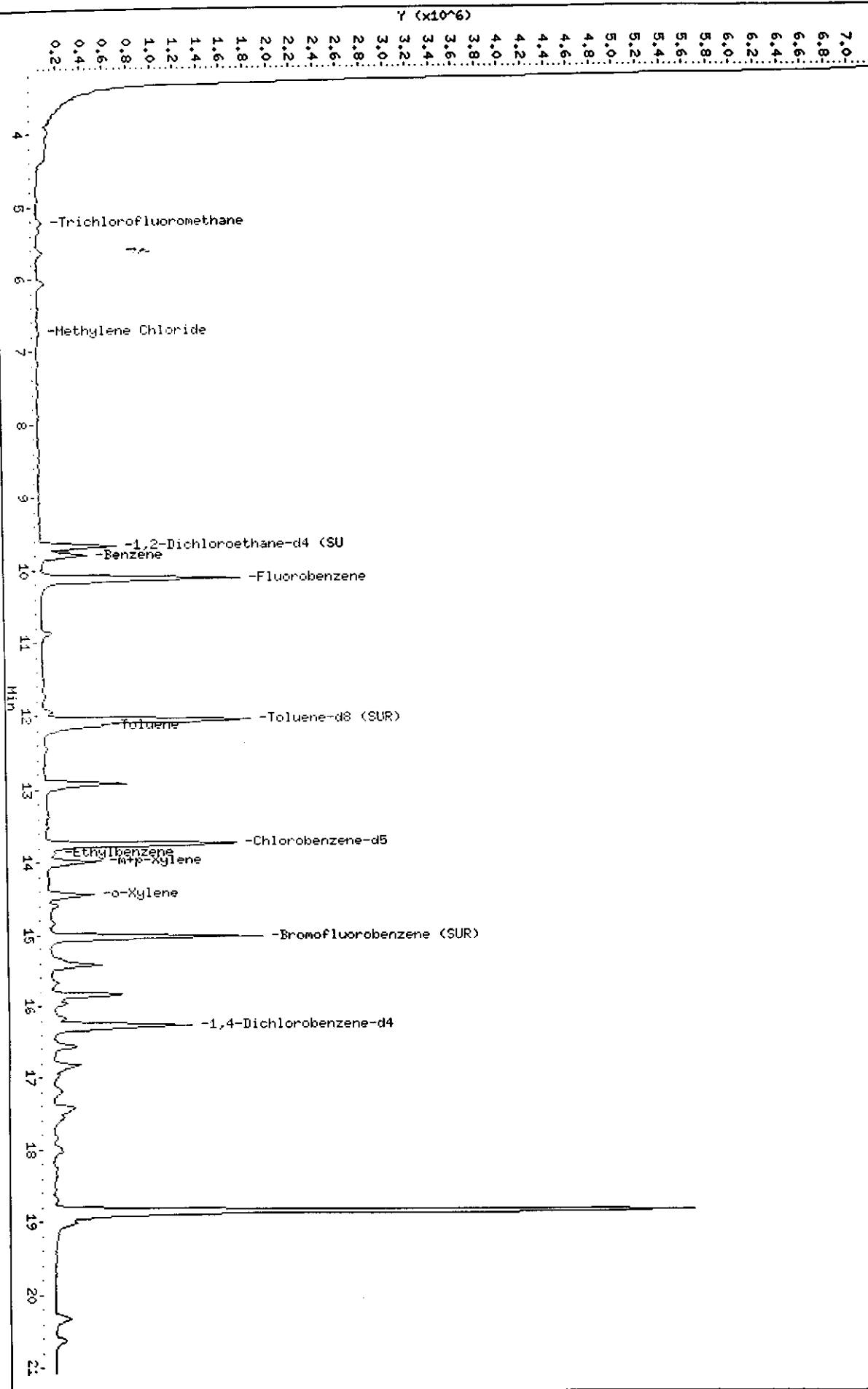
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Date : 29-OCT-2000 21:56
Client ID: EB-3_16-16.5
Sample Info: 237814;;5.01;5

Column phase: DB624

Instrument: VOAHS1.1
Operator: VOAHS 8
Column diameter: 0.53

54

/chem/VOAHS1.1/8260L04_SF/10-20-00/29oct00.b/a10455.d



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/29oct00.b/a10455.d

Date : 29-OCT-2000 21:56

Client ID: EB-3_16-16.5

Sample Info: 237814;;;5.01;5

Instrument: VOAMS1.i

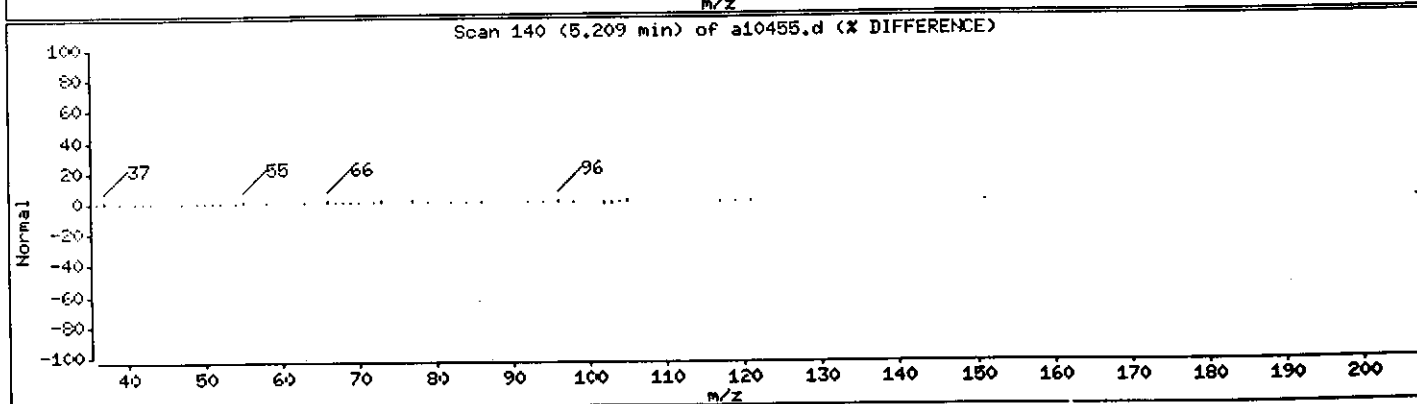
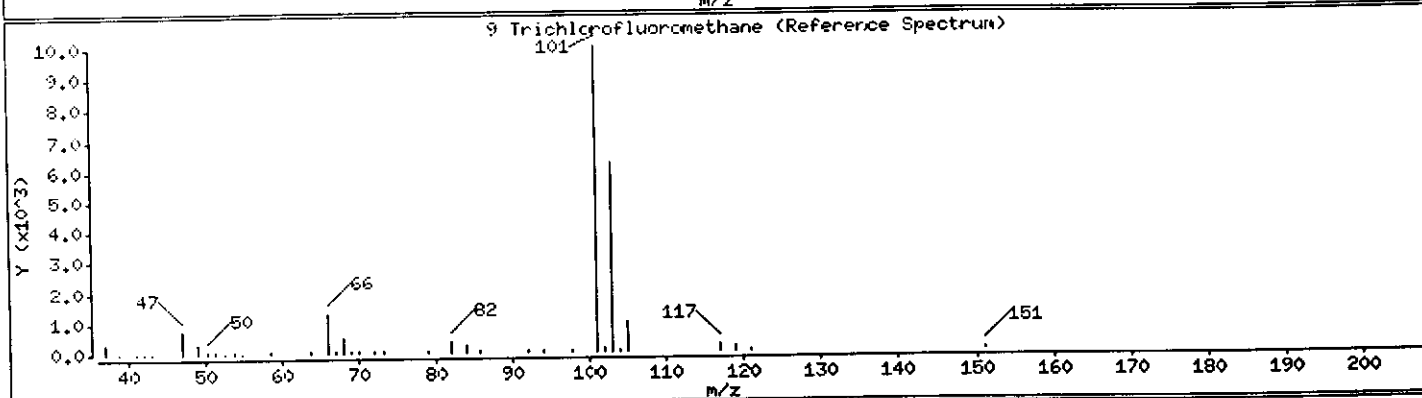
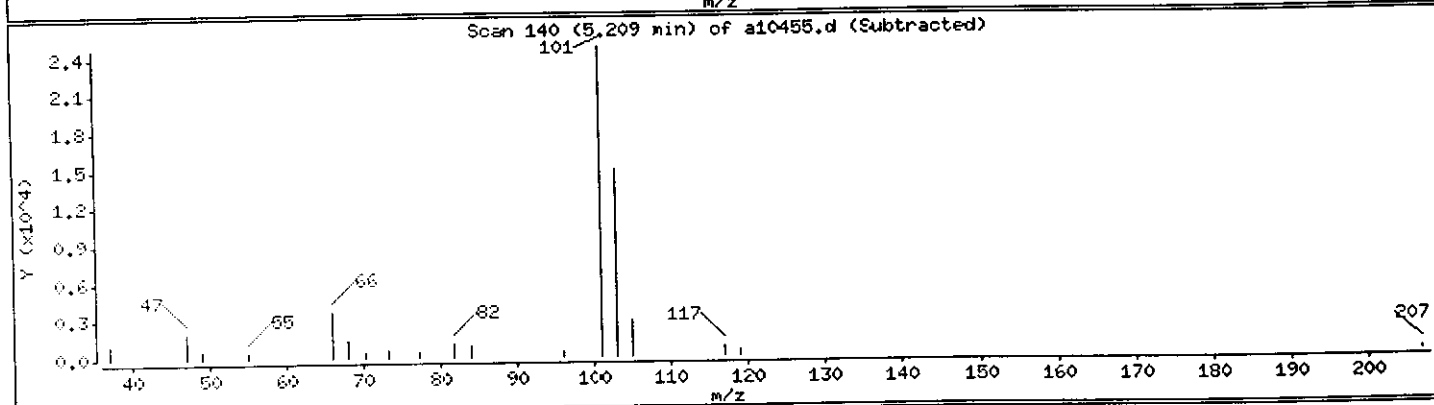
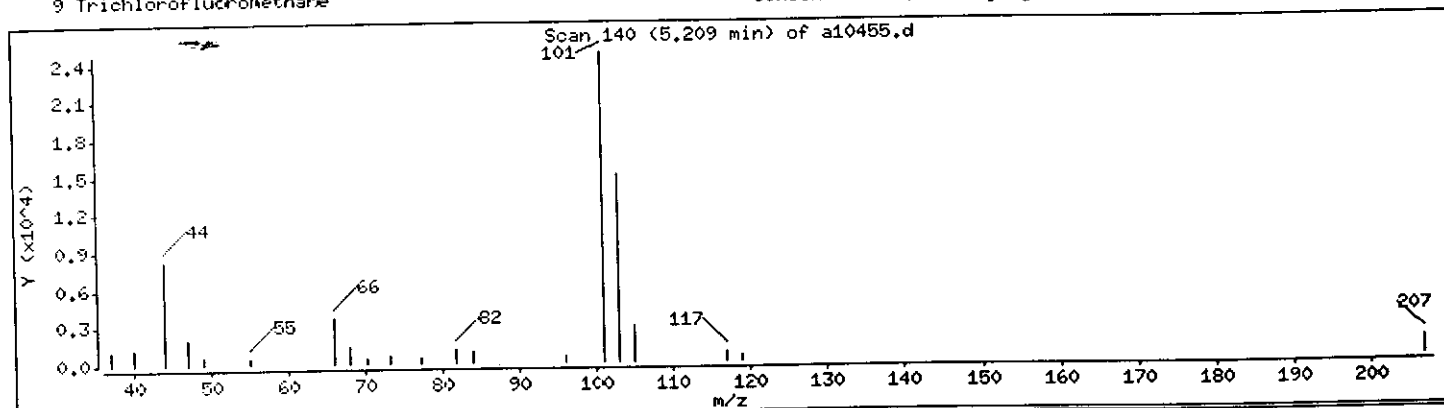
Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

9 Trichlorofluoromethane

Concentration: 3.7 ug/Kg



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/29oct00.b/a10455.d

Date : 29-OCT-2000 21:56

Client ID: EB-3_16-16.5

Instrument: VOAMS1.i

Sample Info: 237814;;;5.01;5

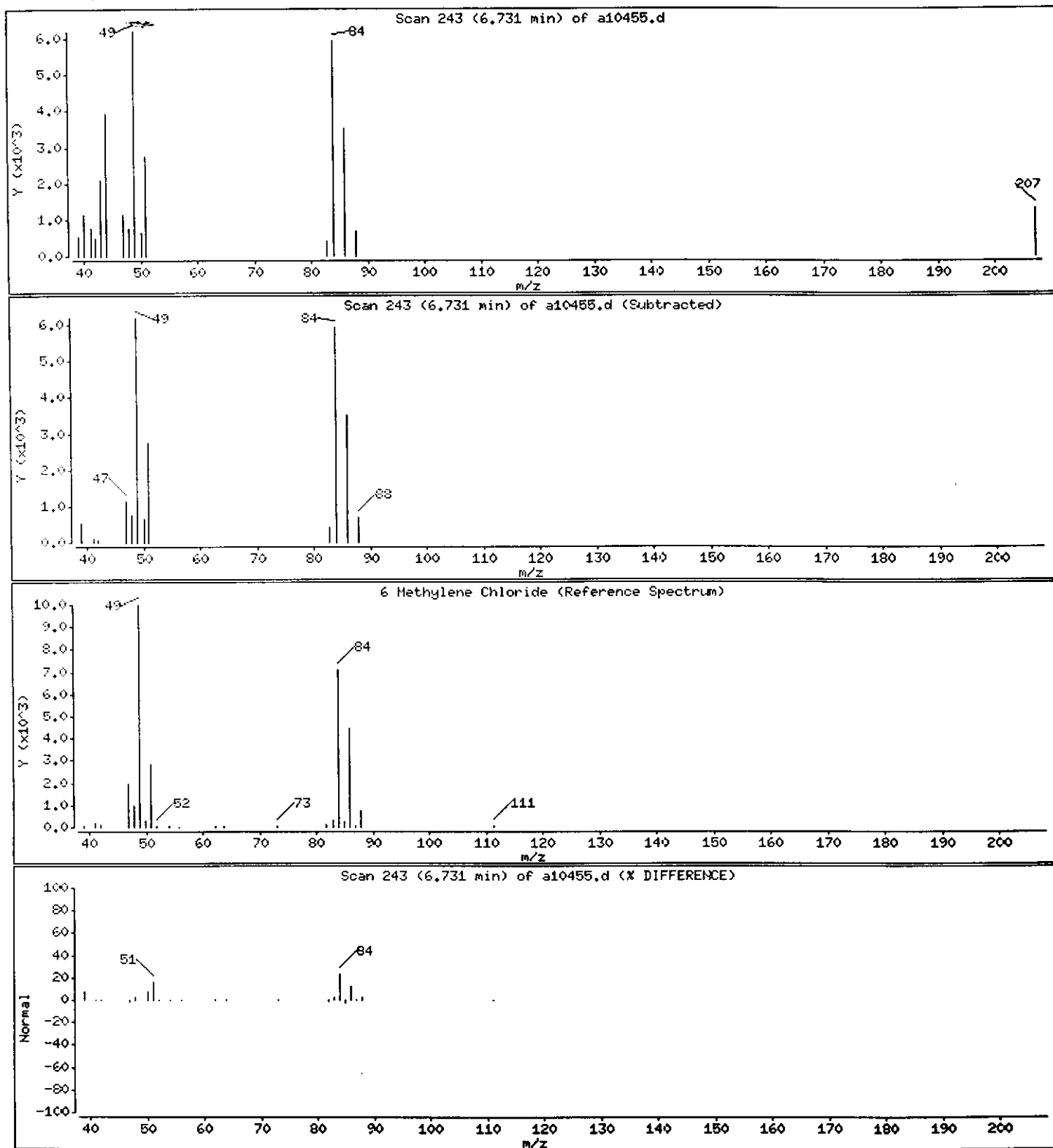
Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

6 Methylene Chloride

Concentration: 1.5 ug/Kg



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/29oct00.b/a10455.d

Date : 29-OCT-2000 21:56

Client ID: EB-3_16-16.5

Sample Info: 237814;;;5.01;5

Instrument: VOAMS1.i

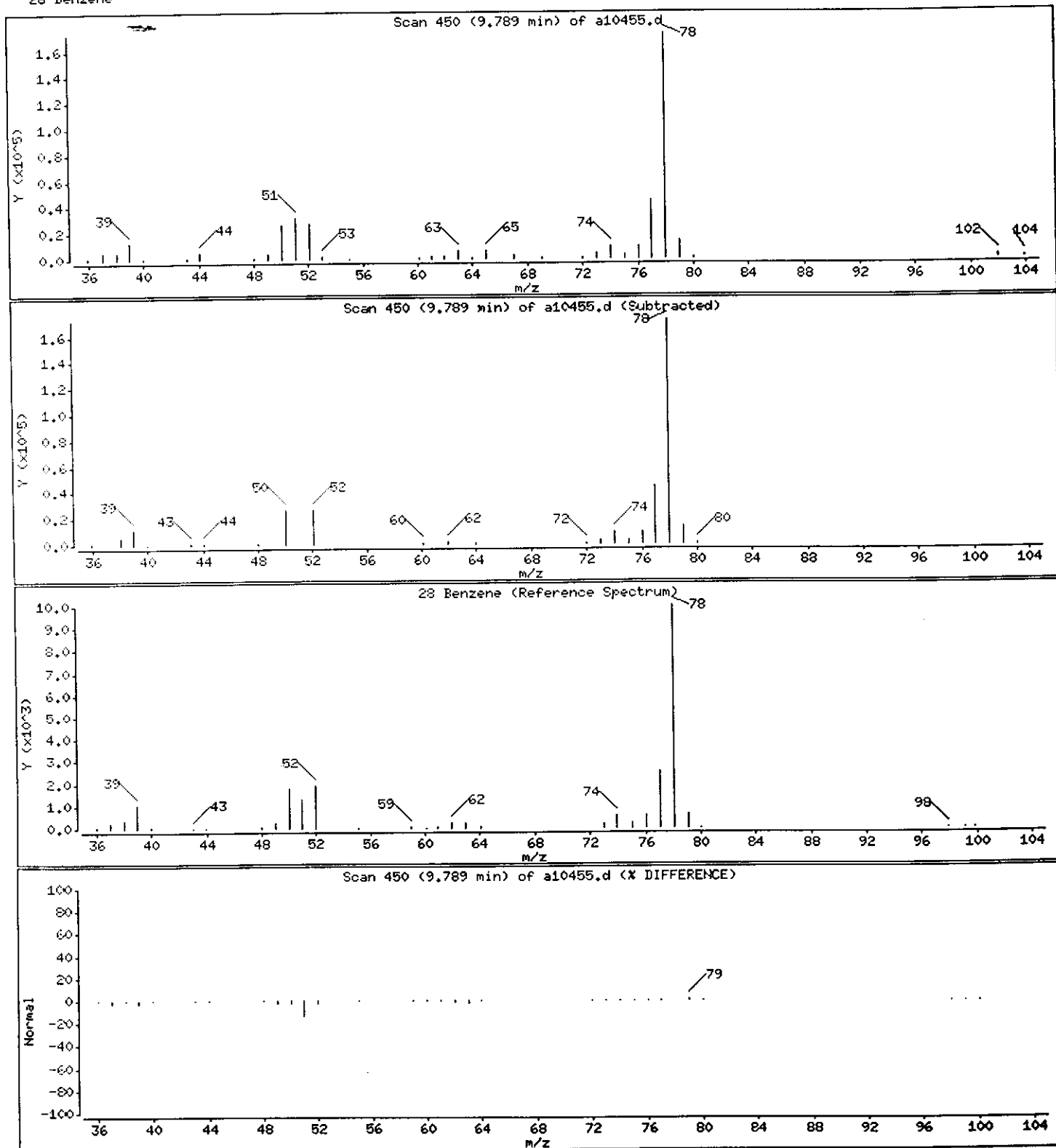
Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

28 Benzene

Concentration: 19 ug/Kg



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/29oct00.b/a10455.d

Date : 29-OCT-2000 21:56

Client ID: EB-3_16-16.5

Sample Info: 237814;;;5.01;5

Instrument: VOAMS1.i

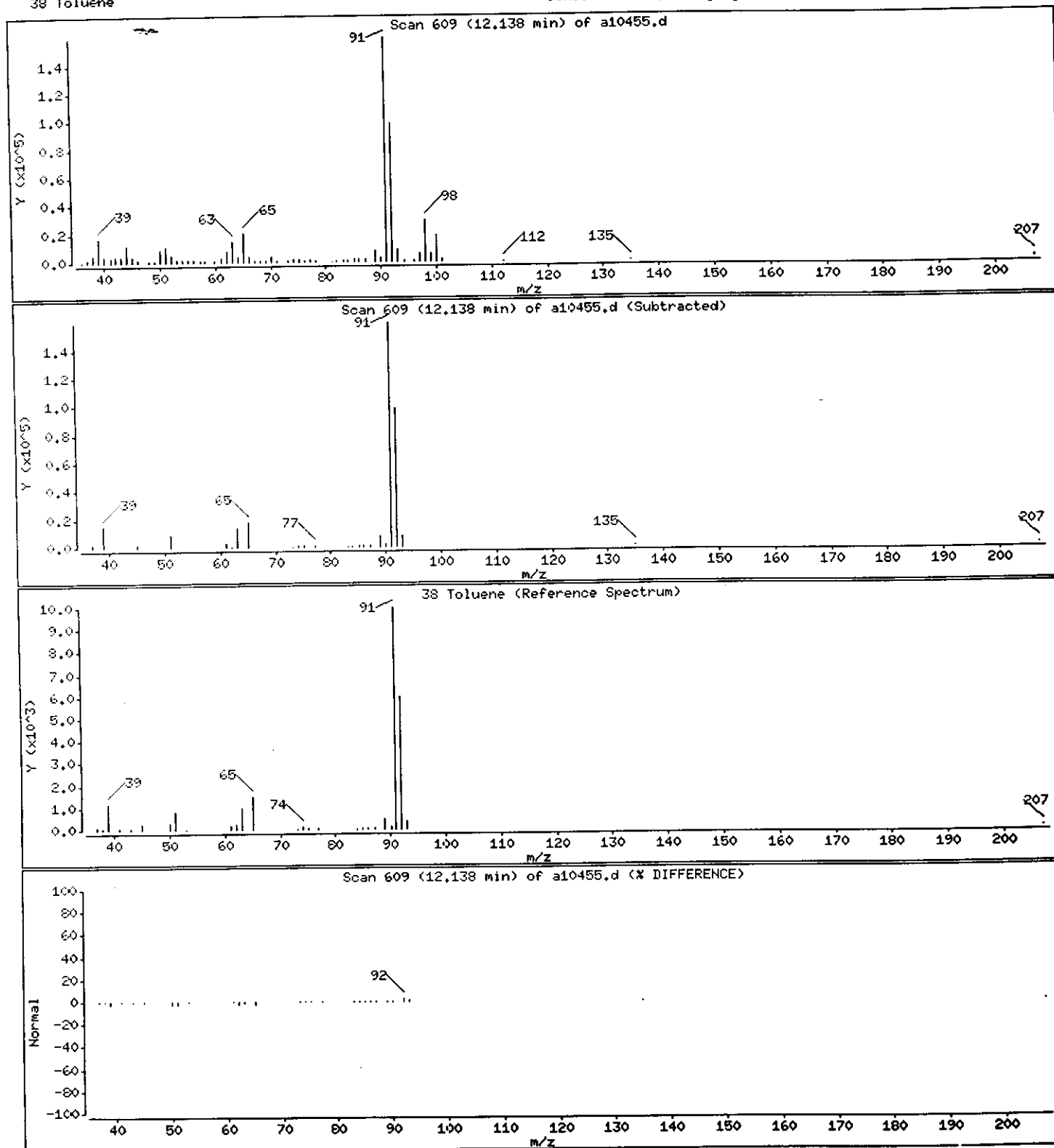
Operator: VOAMS 8

Column diameter: 0.53

Column phase: DB624

Concentration: 18 ug/Kg

38 Toluene



Data File: /chem/VOAMS1.1/8260LOW_SP/10-20-00/29oct00,b/a10455.d

Date : 29-OCT-2000 21:56

Client ID: EB-3_16-16.5

Sample Info: 237814;;;5.01;5

Instrument: VOAMS1.i

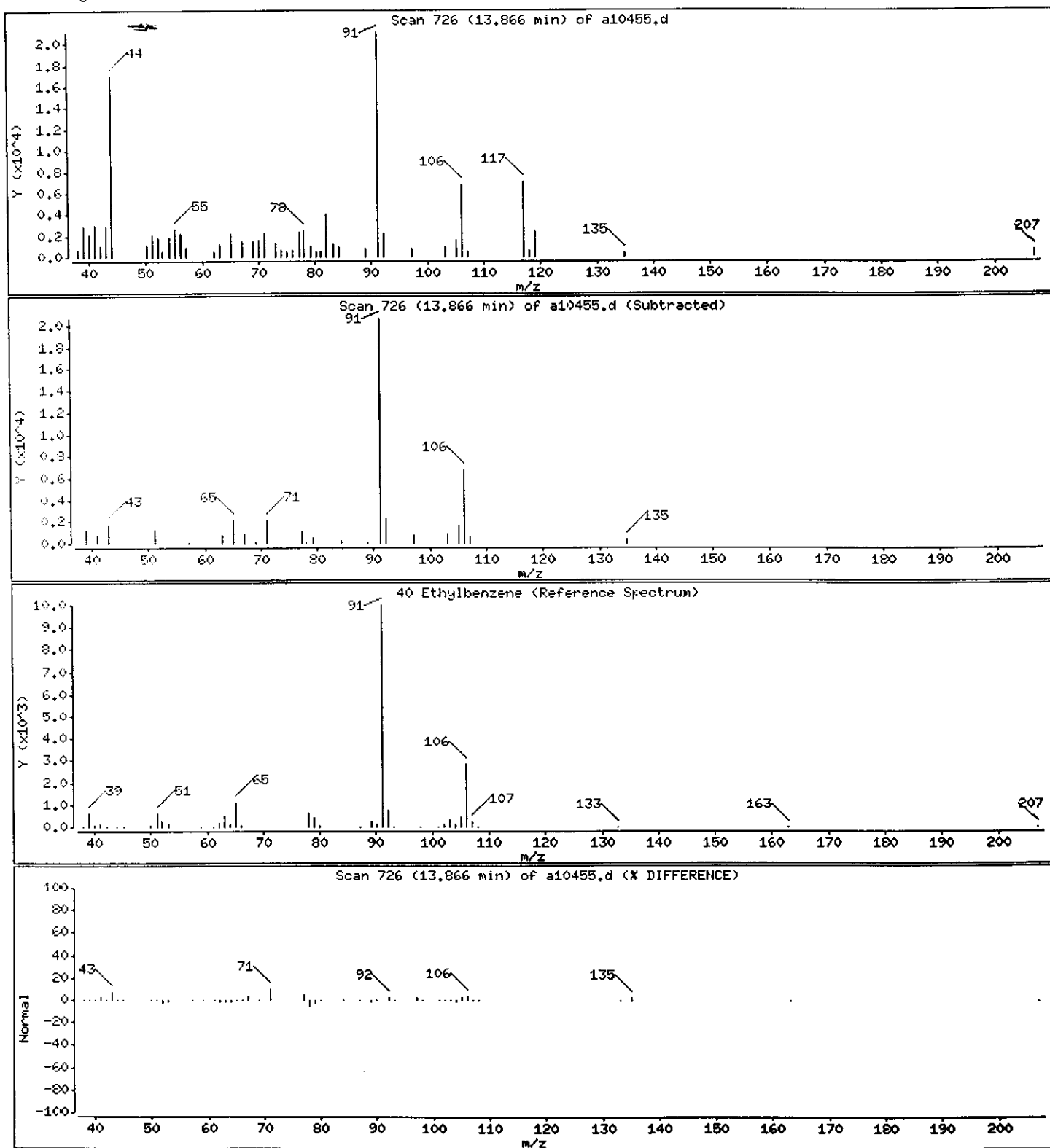
Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

40 Ethylbenzene

Concentration: 1.8 ug/Kg



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/29oct00.b/a10455.d

Date : 29-OCT-2000 21:56

Client ID: EB-3_16-16.5

Instrument: VOAMS1.i

Sample Info: 237814;;;5.01;5

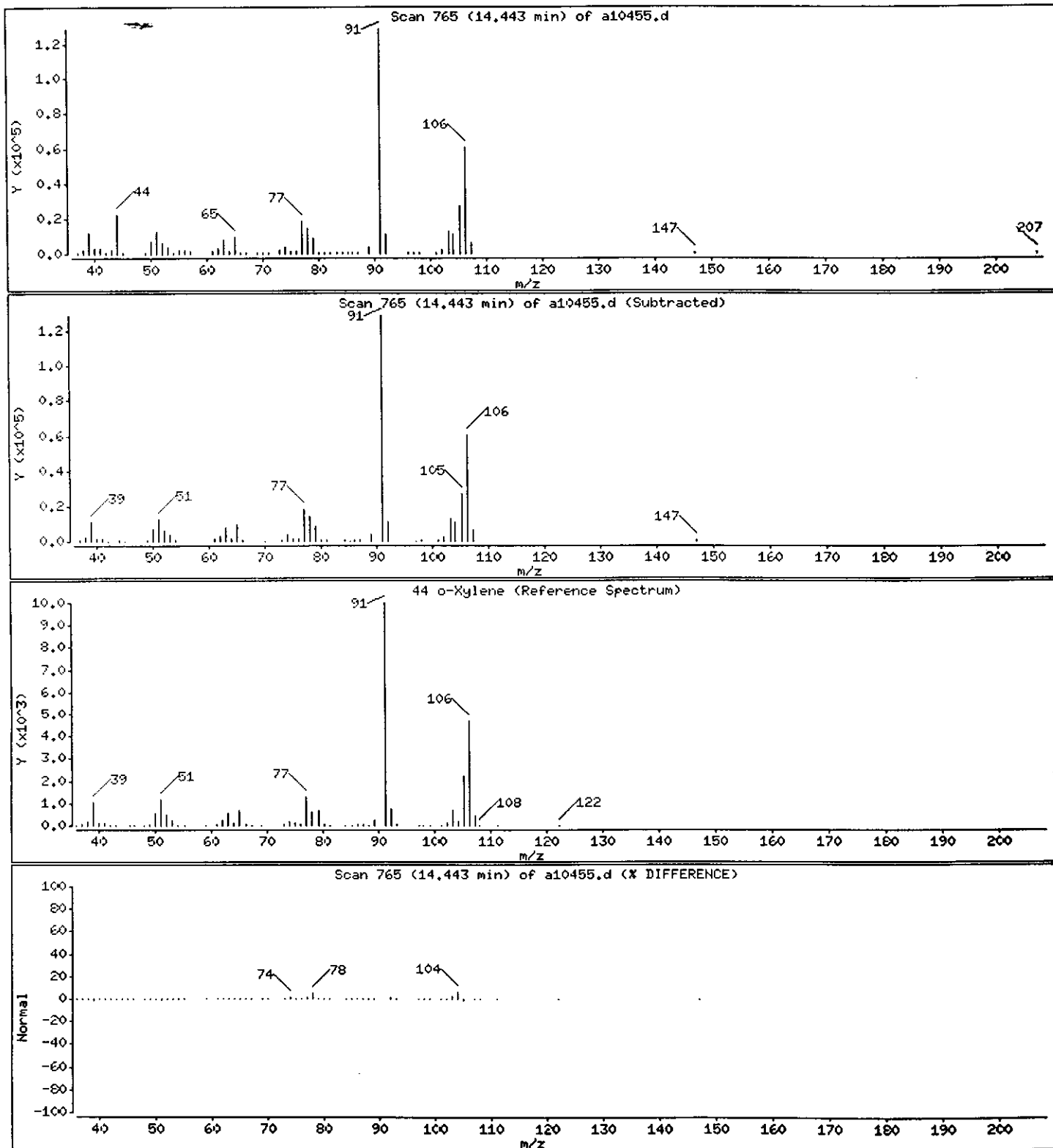
Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

44 o-Xylene

Concentration: 13 ug/Kg



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Date : 29-OCT-2000 21:56

Client ID: EB-3_16-16.5

Sample Info: 237814;;;5.01;5

Instrument: VOAMS1.i

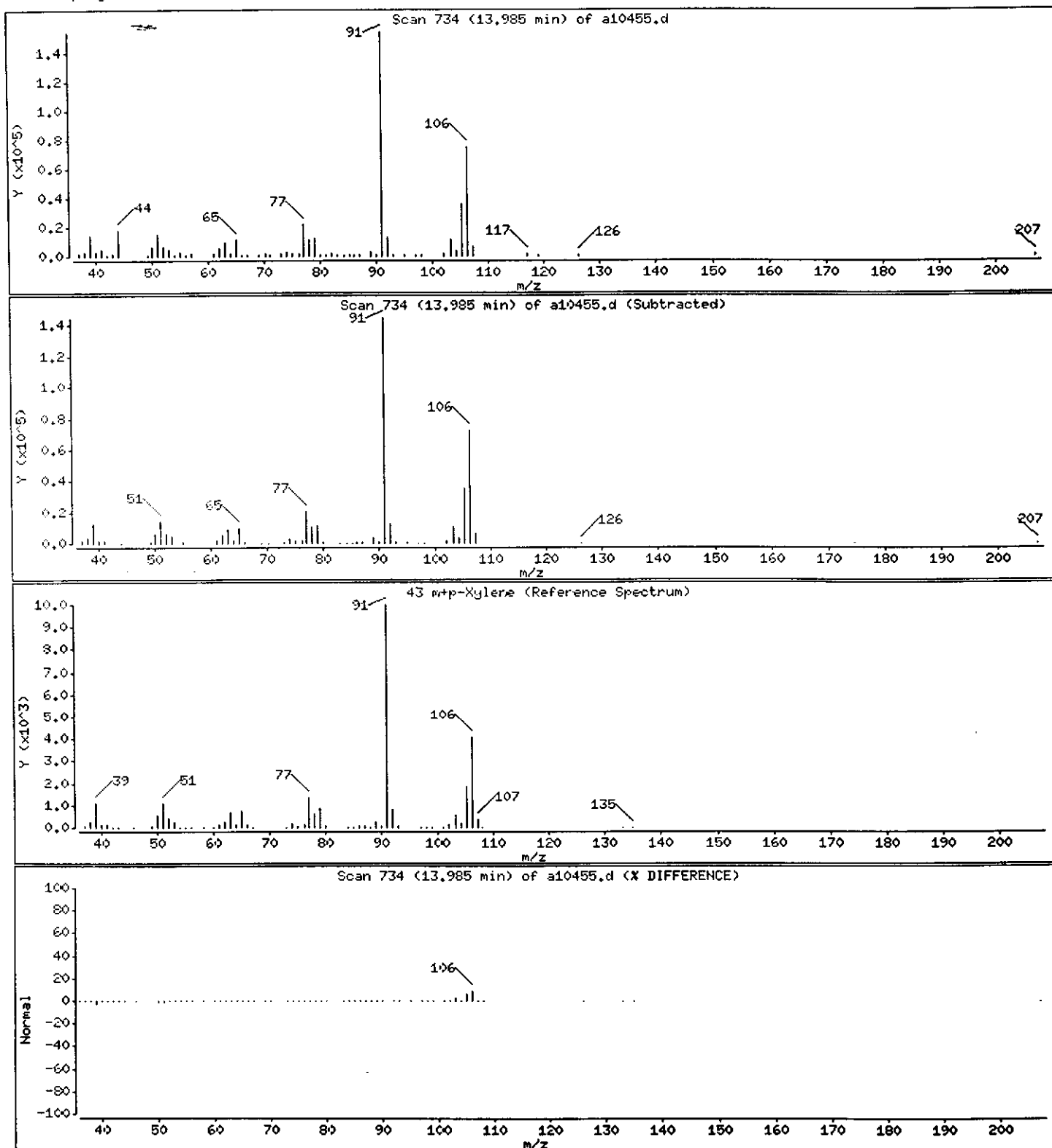
Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

43 m+p-Xylene

Concentration: 17 ug/Kg



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Date : 29-OCT-2000 21:56

Client ID: EB-3_16-16.5

Sample Info: 237814::5.01:5

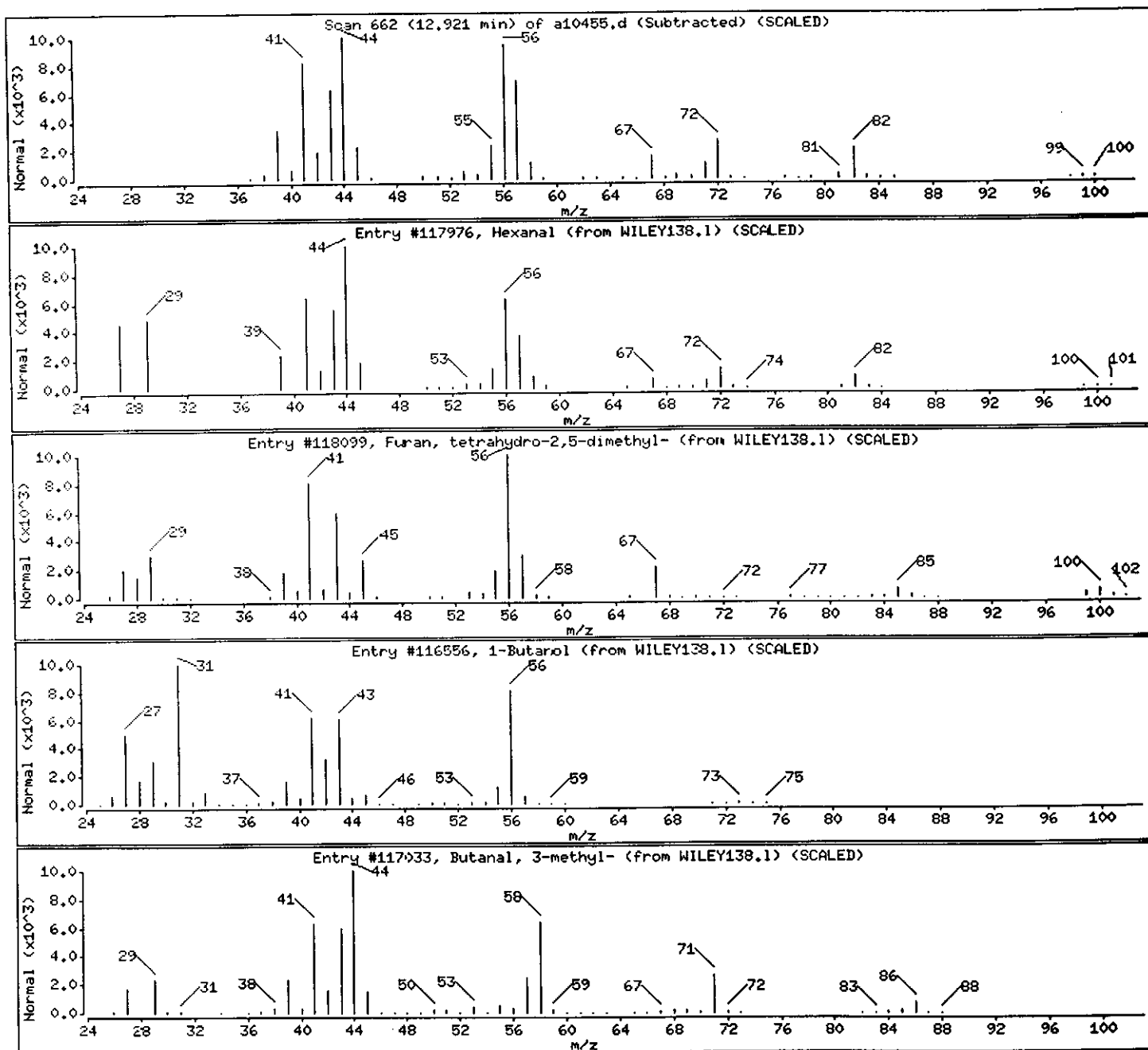
Instrument: VOAMS1.i

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Hexanal	66-25-1	WILEY138.1	117976	91	C ₆ H ₁₂ O	100
Furan, tetrahydro-2,5-dimethyl-	1003-38-9	WILEY138.1	118099	35	C ₆ H ₁₂ O	100
1-Butanol	71-36-3	WILEY138.1	116556	22	C ₄ H ₁₀ O	74
Butanal, 3-methyl-	590-86-3	WILEY138.1	117033	16	C ₅ H ₁₀ O	86



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/29oct00.b/a10455.d

Date : 29-OCT-2000 21:56

Client ID: EB-3_16-16.5

Sample Info: 237814;;;5.01;5

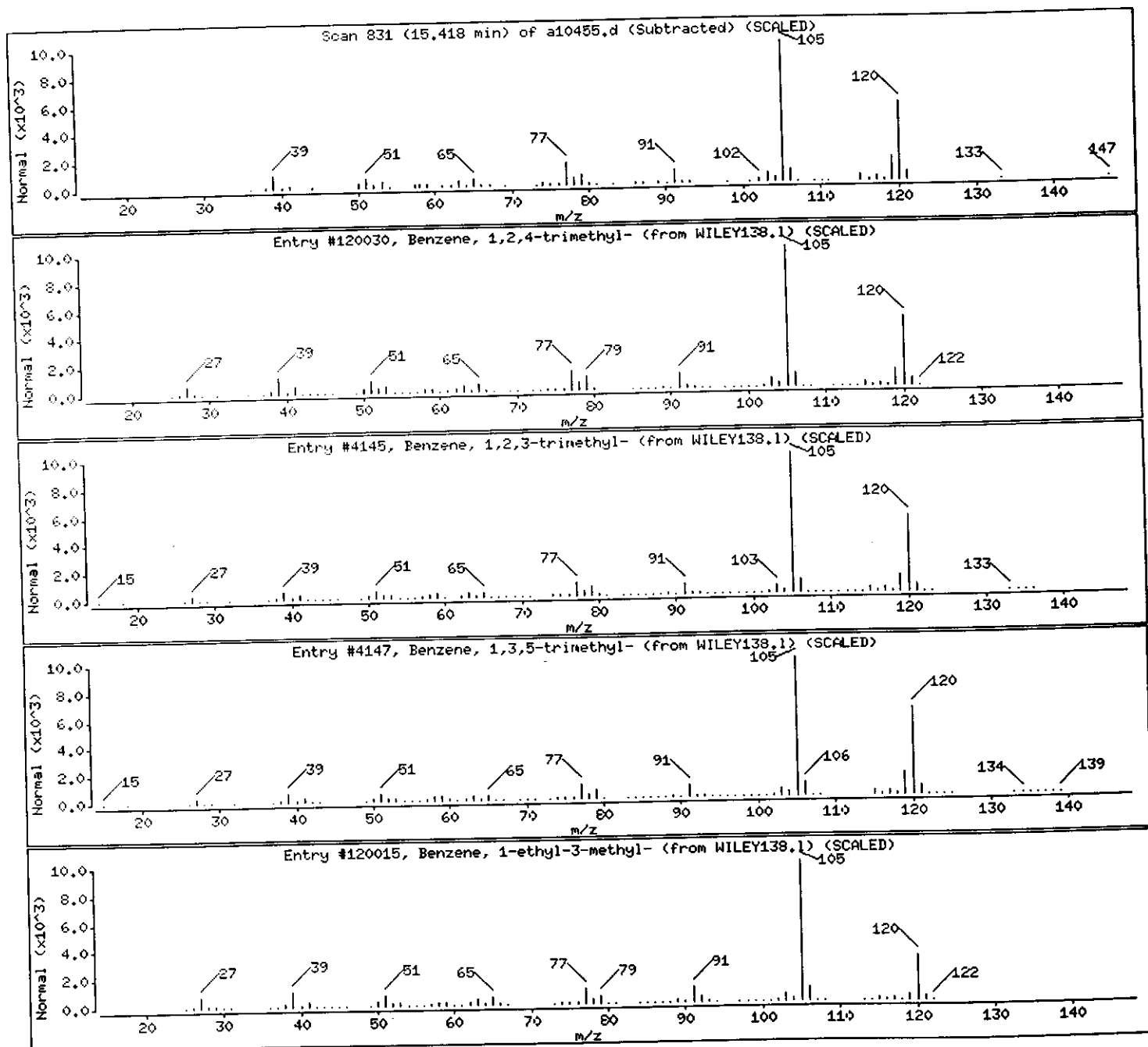
Instrument: VOAMS1.i

Operator: VOAMS 8

Column diameter: 0.53

Column phase: DB624

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Trimethylbenzene isomer						
Benzene, 1,2,4-trimethyl-	95-63-6	WILEY138.1	120030	95	C9H12	120
Benzene, 1,2,3-trimethyl-	526-73-8	WILEY138.1	4145	94	C9H12	120
Benzene, 1,3,5-trimethyl-	108-67-8	WILEY138.1	4147	94	C9H12	120
Benzene, 1-ethyl-3-methyl-	620-14-4	WILEY138.1	120015	91	C9H12	120



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/29oct00.b/a10455.d

Date : 29-OCT-2000 21:56

Client ID: EB-3_16-16.5

Instrument: VOAMS1.i

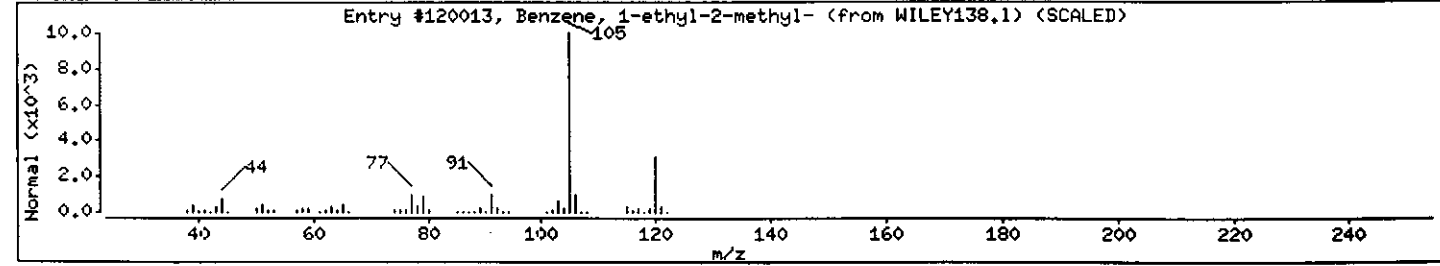
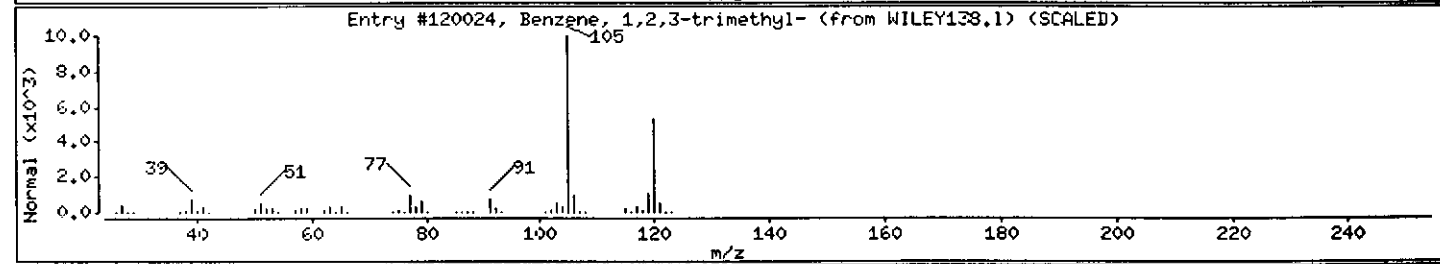
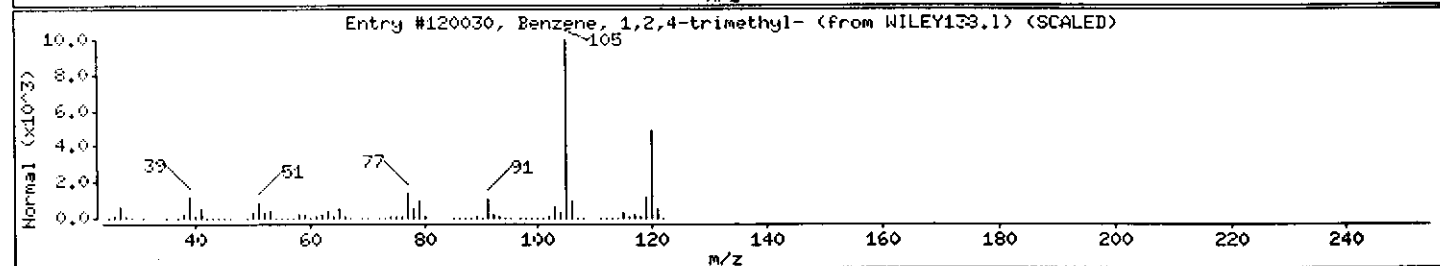
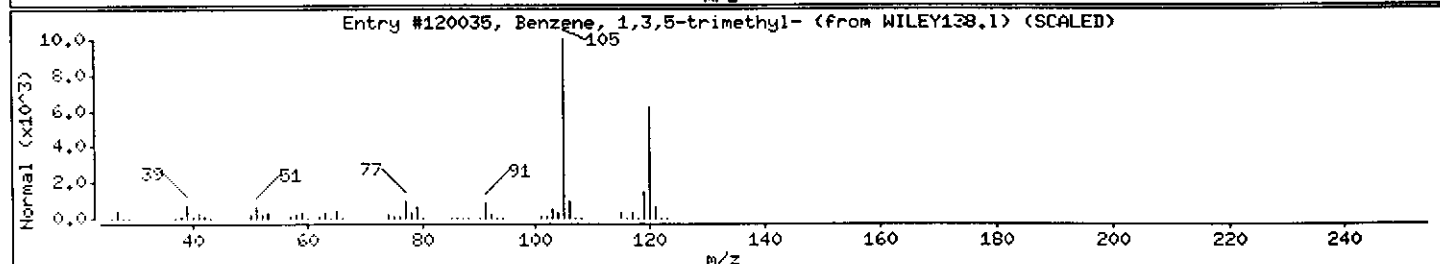
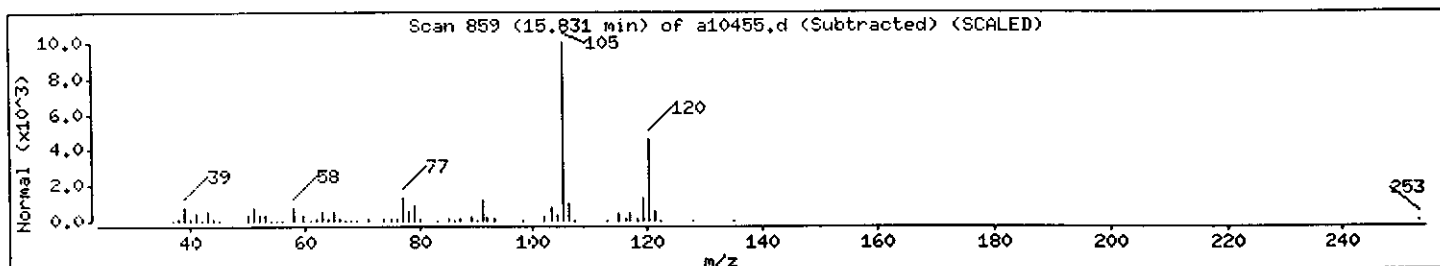
Sample Info: 237814;;;5.01;5

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Trimethylbenzene isomer						
Benzene, 1,3,5-trimethyl-	108-67-8	WILEY138.1	120035	97	C9H12	120
Benzene, 1,2,4-trimethyl-	95-63-6	WILEY138.1	120030	97	C9H12	120
Benzene, 1,2,3-trimethyl-	526-73-8	WILEY138.1	120024	95	C9H12	120
Benzene, 1-ethyl-2-methyl-	611-14-3	WILEY138.1	120013	93	C9H12	120



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/29oct00.b/a10455.d

Date : 29-OCT-2000 21:56

Client ID: EB-3_16-16.5

Instrument: VOAMS1.i

Sample Info: 237814;;;5.01;5

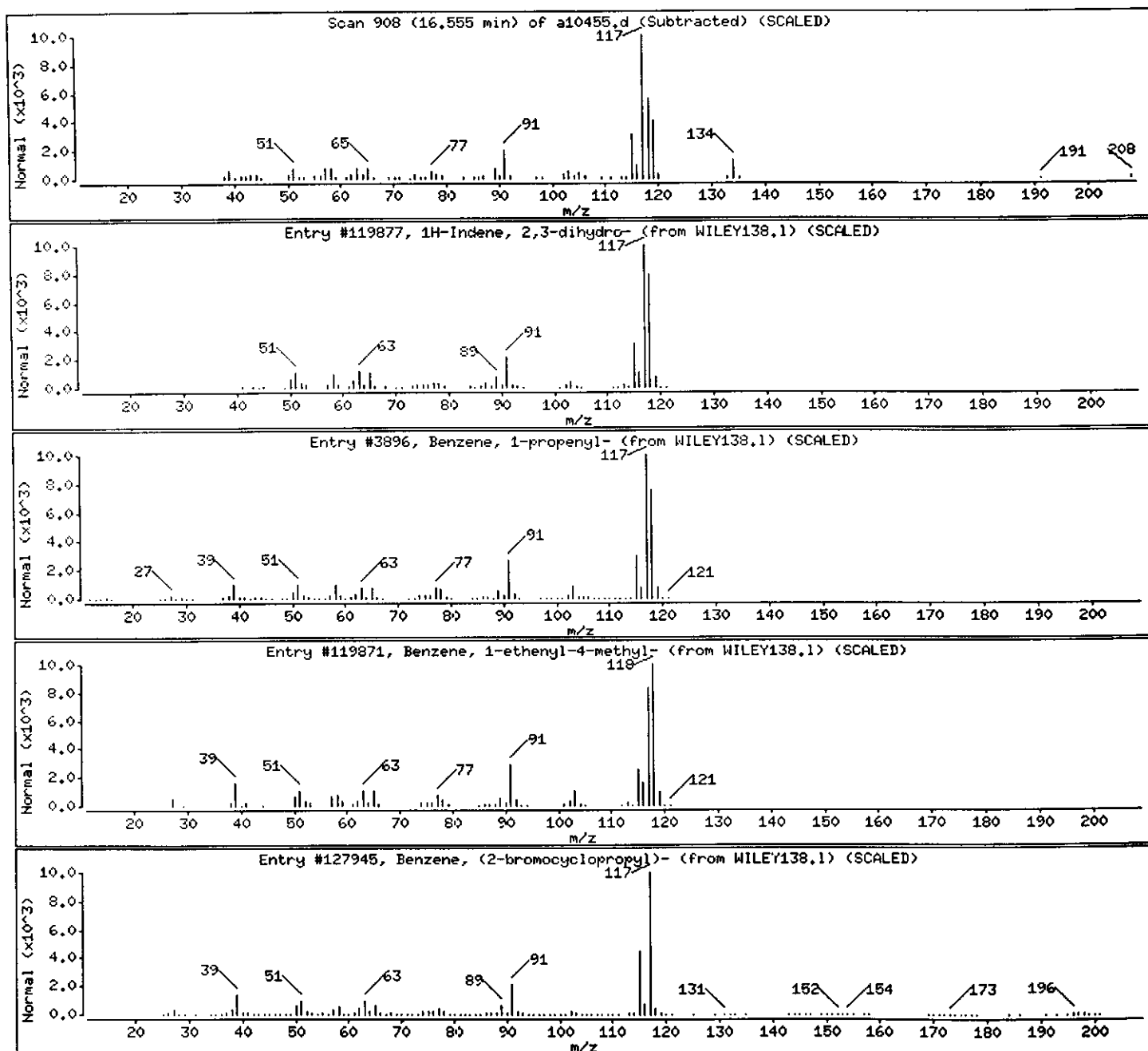
Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match
2,3-dihydro-1H-Indene/C10H14 Aromatic
1H-Indene, 2,3-dihydro-
Benzene, 1-propenyl-
Benzene, 1-ethenyl-4-methyl-
Benzene, (2-bromocyclopropyl)-

CAS Number	Library	Entry	Quality	Formula	Weight
496-11-7	WILEY138.1	119877	86	C9H10	118
637-50-3	WILEY138.1	3896	64	C9H10	118
622-97-9	WILEY138.1	119871	50	C9H10	118
36617-02-4	WILEY138.1	127945	46	C9H9Br	196



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/29oct00.b/a10455.d

Date : 29-OCT-2000 21:56

Client ID: EB-3_16-16.5

Sample Info: 237814;;;5.01;5

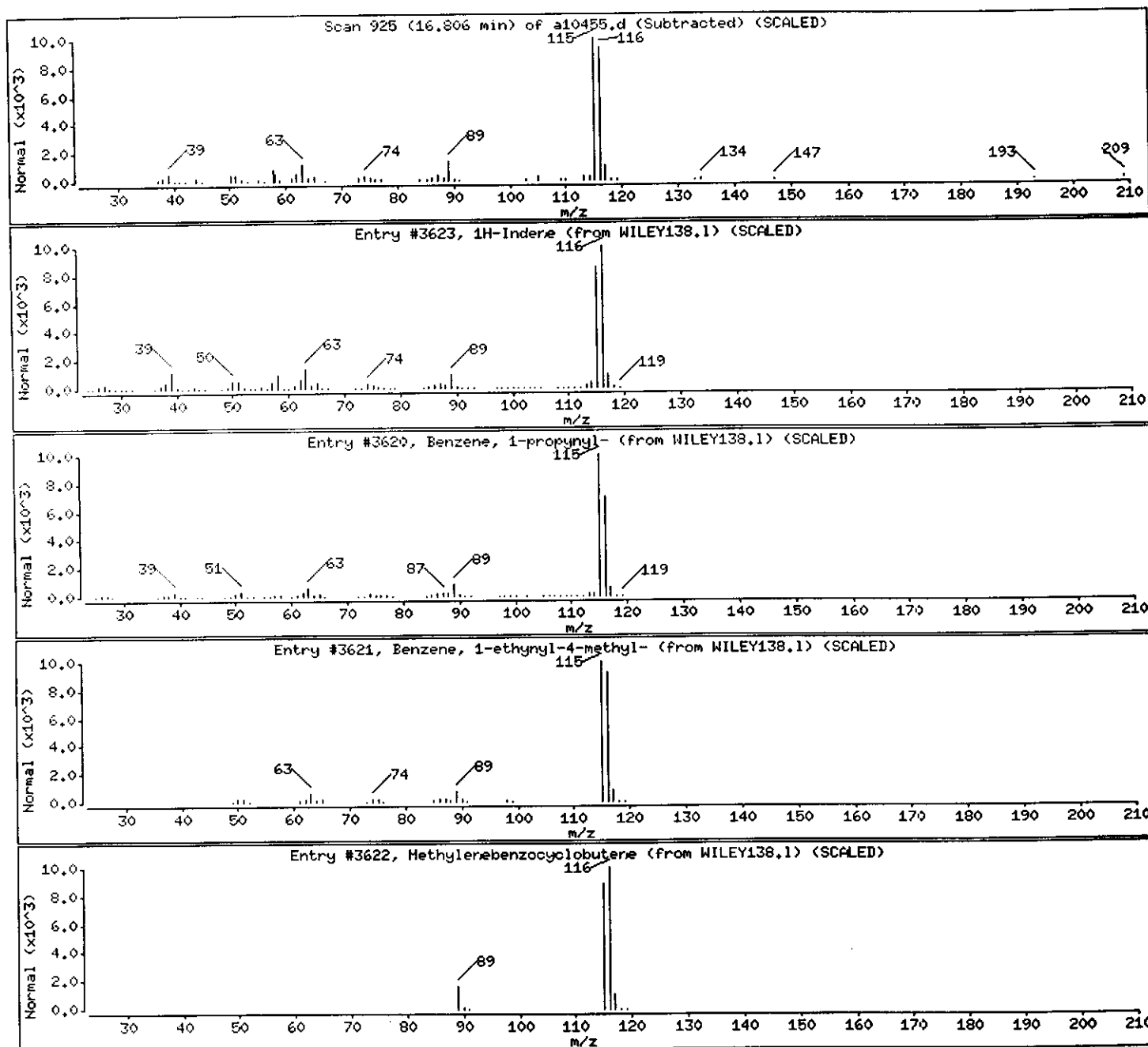
Instrument: VOAMS1.i

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
C9H8 Aromatic						
1H-Indene	95-13-6	WILEY138.1	3623	96	C9H8	116
Benzene, 1-propynyl-	673-32-5	WILEY138.1	3620	91	C9H8	116
Benzene, 1-ethynyl-4-methyl-	766-97-2	WILEY138.1	3621	87	C9H8	116
Methylenebenzocyclobutene	19164-64-8	WILEY138.1	3622	83	C9H8	116



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/29oct00.b/a10455.d

Date : 29-OCT-2000 21:56

Client ID: EB-3_16-16.5

Instrument: VOAMS1.i

Sample Info: 237814;;;5.01;5

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match

Unknown Aromatic

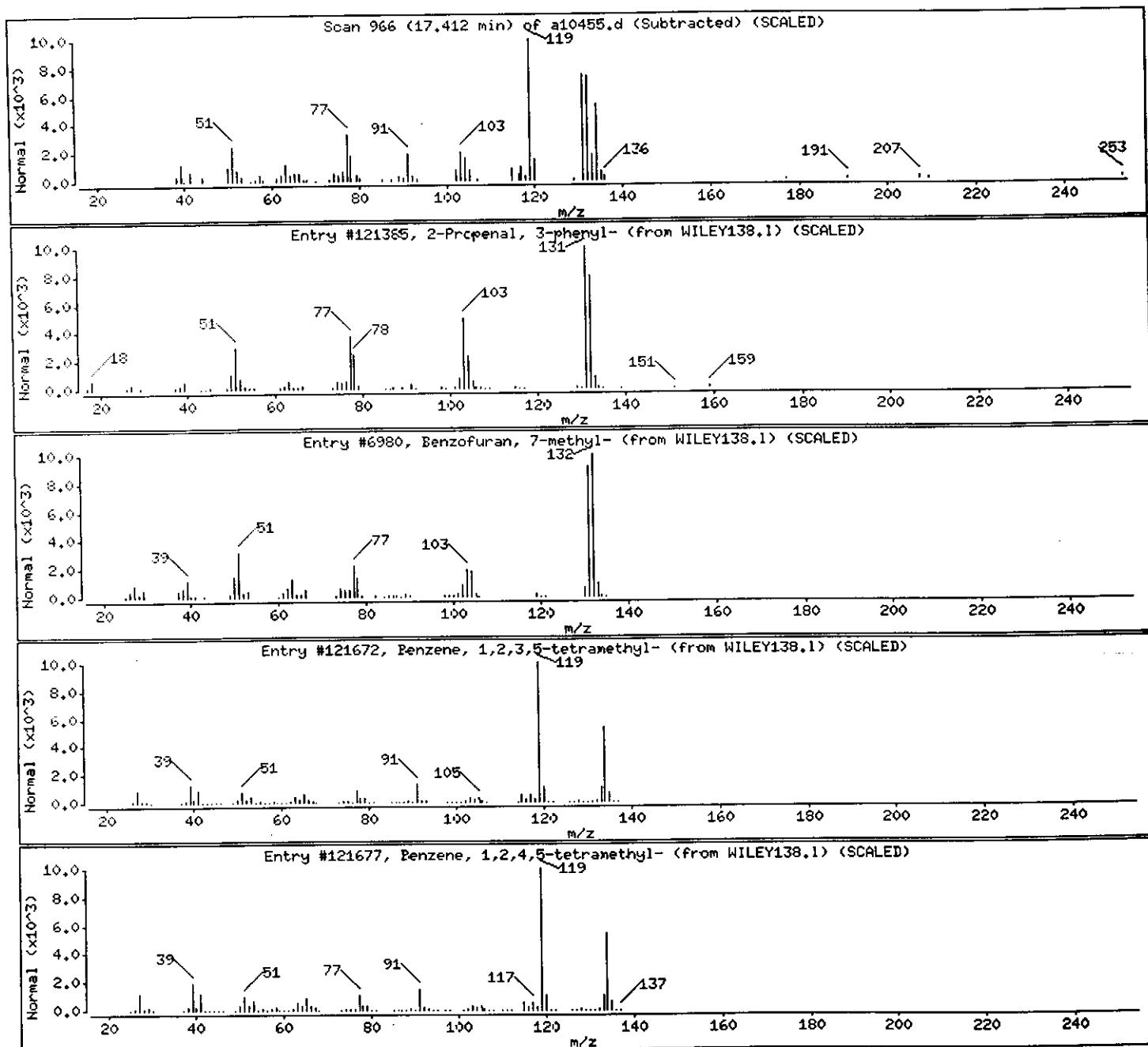
2-Propenal, 3-phenyl-

Benzofuran, 7-methyl-

Benzene, 1,2,3,5-tetramethyl-

Benzene, 1,2,4,5-tetramethyl-

CAS Number	Library	Entry	Quality	Formula	Weight
104-55-2	WILEY138.1	121385	70	C9H8O	132
17059-52-8	WILEY138.1	6980	55	C9H8O	132
527-53-7	WILEY138.1	121672	50	C10H14	134
95-93-2	WILEY138.1	121677	46	C10H14	134



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/29oct00.b/a10455.d

Date : 29-OCT-2000 21:56

Client ID: EB-3_16-16.5

Sample Info: 237814;;;5.01;5

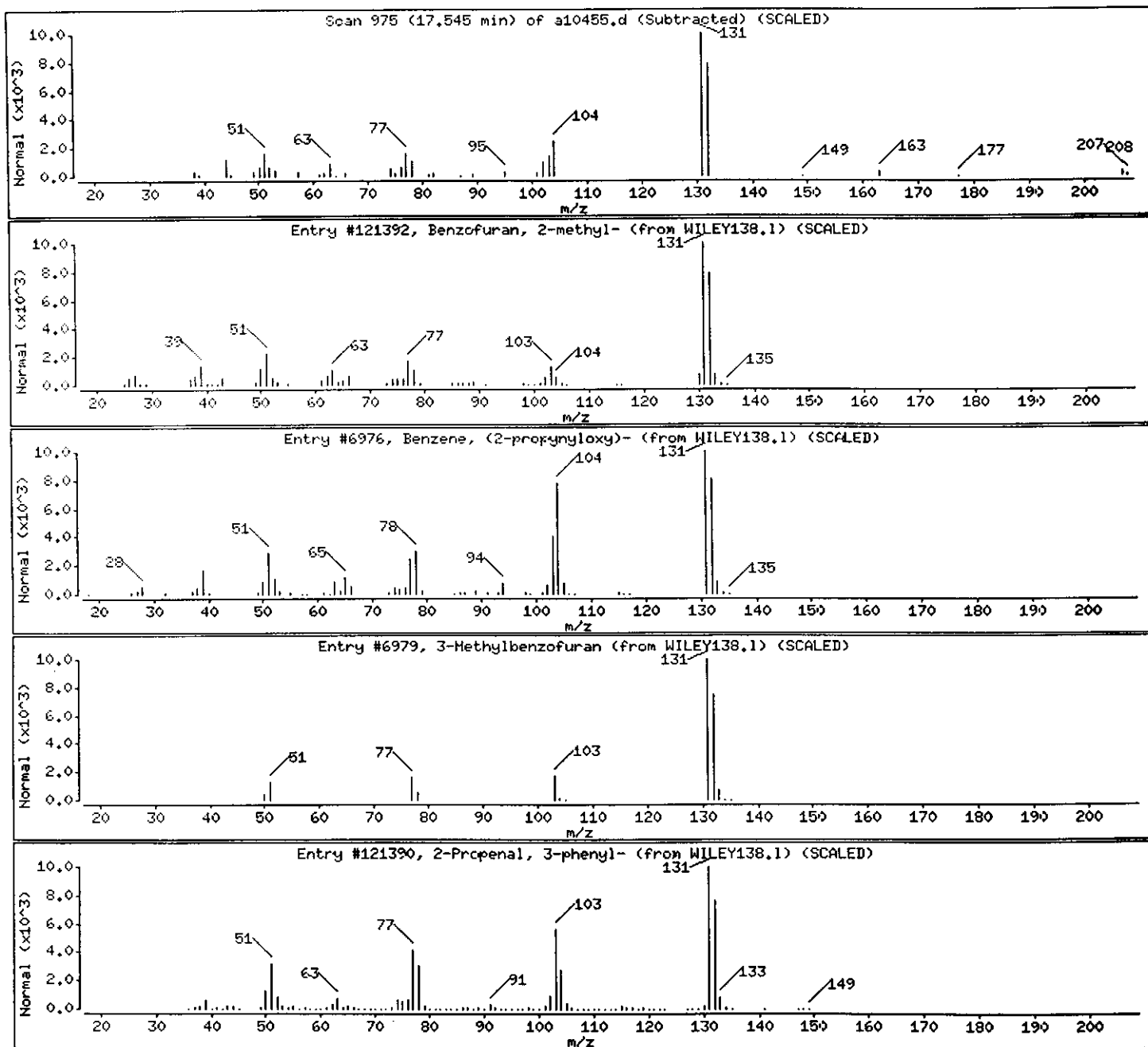
Instrument: VOAMS1.i

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Aromatic						
Benzofuran, 2-methyl-	4265-25-2	WILEY138.1	121392	87	C9H8O	132
Benzene, (2-propynyloxy)-	13610-02-1	WILEY138.1	6976	78	C9H8O	132
3-Methylbenzofuran	0-00-0	WILEY138.1	6979	72	C9H8O	132
2-Propenal, 3-phenyl-	104-55-2	WILEY138.1	121390	72	C9H8O	132



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/29oct00.b/a10455.d

Date : 29-OCT-2000 21:56

Client ID: EB-3_16-16.5

Instrument: VOAMS1.i

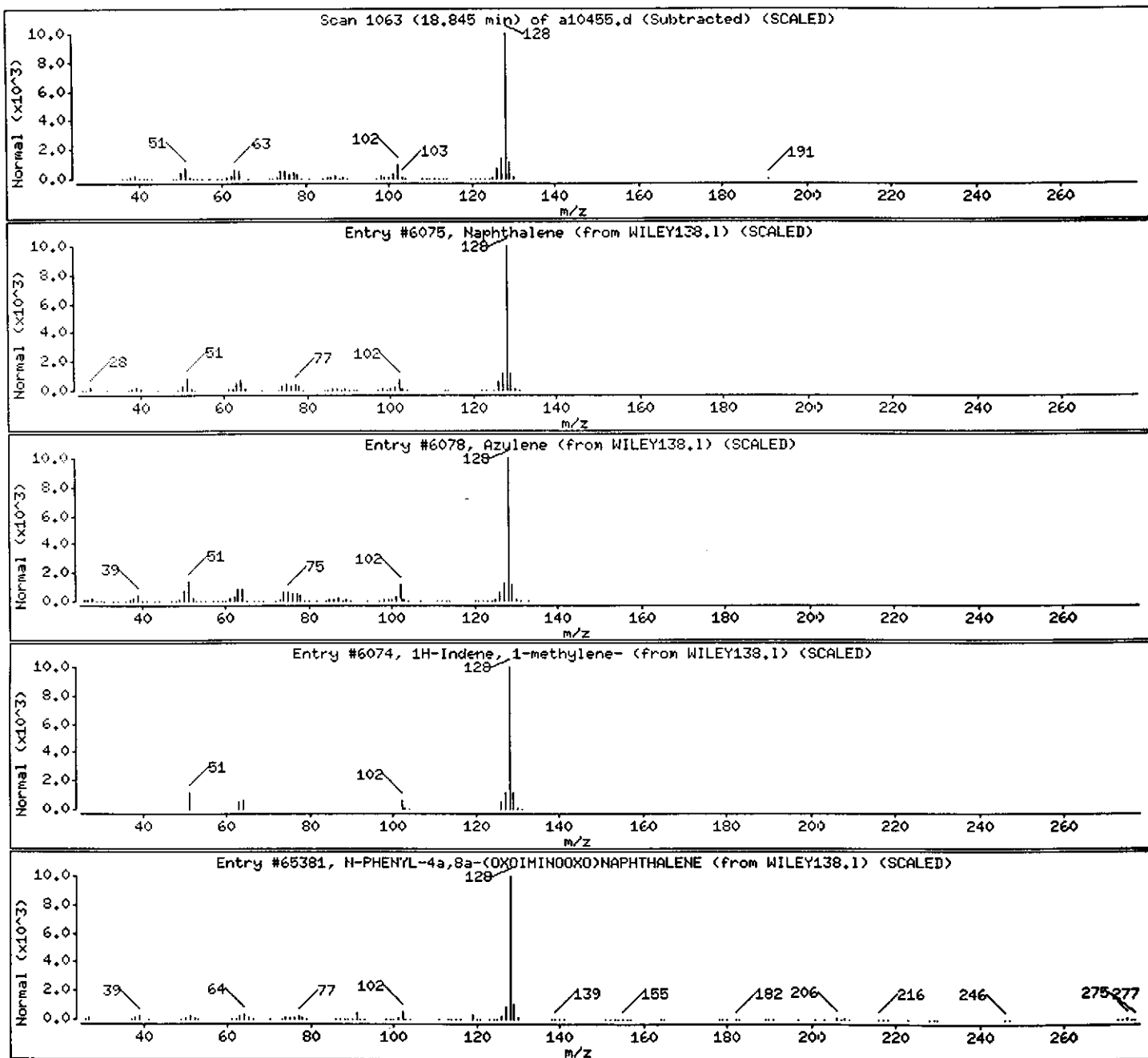
Sample Info: 237814;;;5.01;5

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Naphthalene	91-20-3	WILEY138.1	6075	94	C ₁₀ H ₈	128
Azulene	275-51-4	WILEY138.1	6078	91	C ₁₀ H ₈	128
1H-Indene, 1-methylene-	2471-84-3	WILEY138.1	6074	86	C ₁₀ H ₈	128
N-PHENYL-4a,8a-(OXOIMINOXO)NAPHTHALENE	0-00-0	WILEY138.1	65381	74	C ₁₈ H ₁₃ N ₂ O	275



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/29oct00.b/a10455.d

Date : 29-OCT-2000 21:56

Client ID: EB-3_16-16.5

Instrument: VOAMS1.i

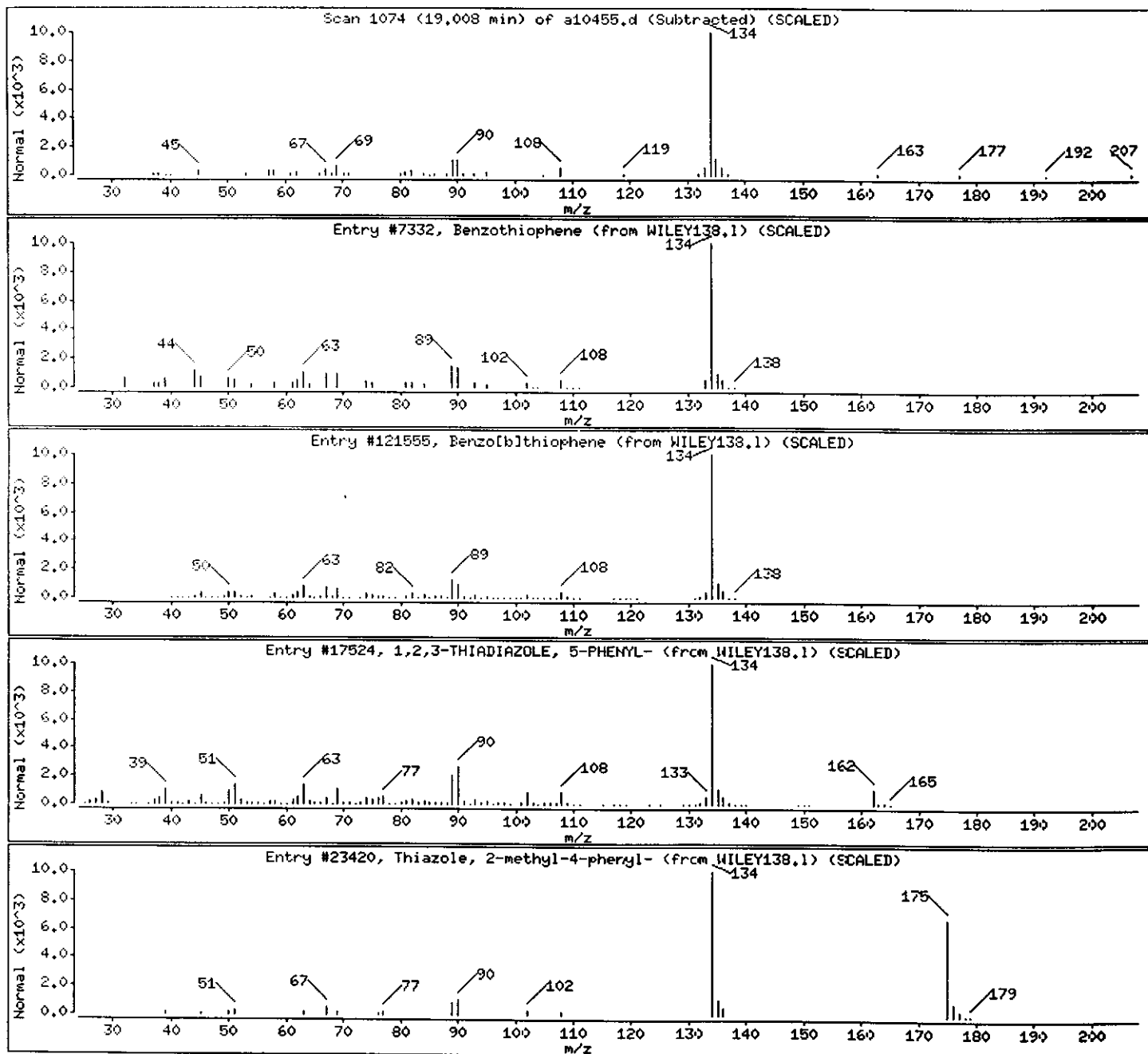
Sample Info: 237814;;;5.01;5

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzothiophene Isomer		WILEY138.1	7332	91	C8H6S	134
Benzo[b]thiophene	95-15-8	WILEY138.1	121555	91	C8H6S	134
1,2,3-THIADIAZOLE, 5-PHENYL-	0-00-0	WILEY138.1	17524	83	C8H6N2S	162
Thiazole, 2-methyl-4-phenyl-	1826-16-0	WILEY138.1	23420	78	C10H9NS	175



Data File: /chem/VOAMS1.1/8260LOW_SP/10-20-00/29oct00.b/a10455.d

Date : 29-OCT-2000 21:56

Client ID: EB-3_16-16.5

Instrument: VOAMS1.1

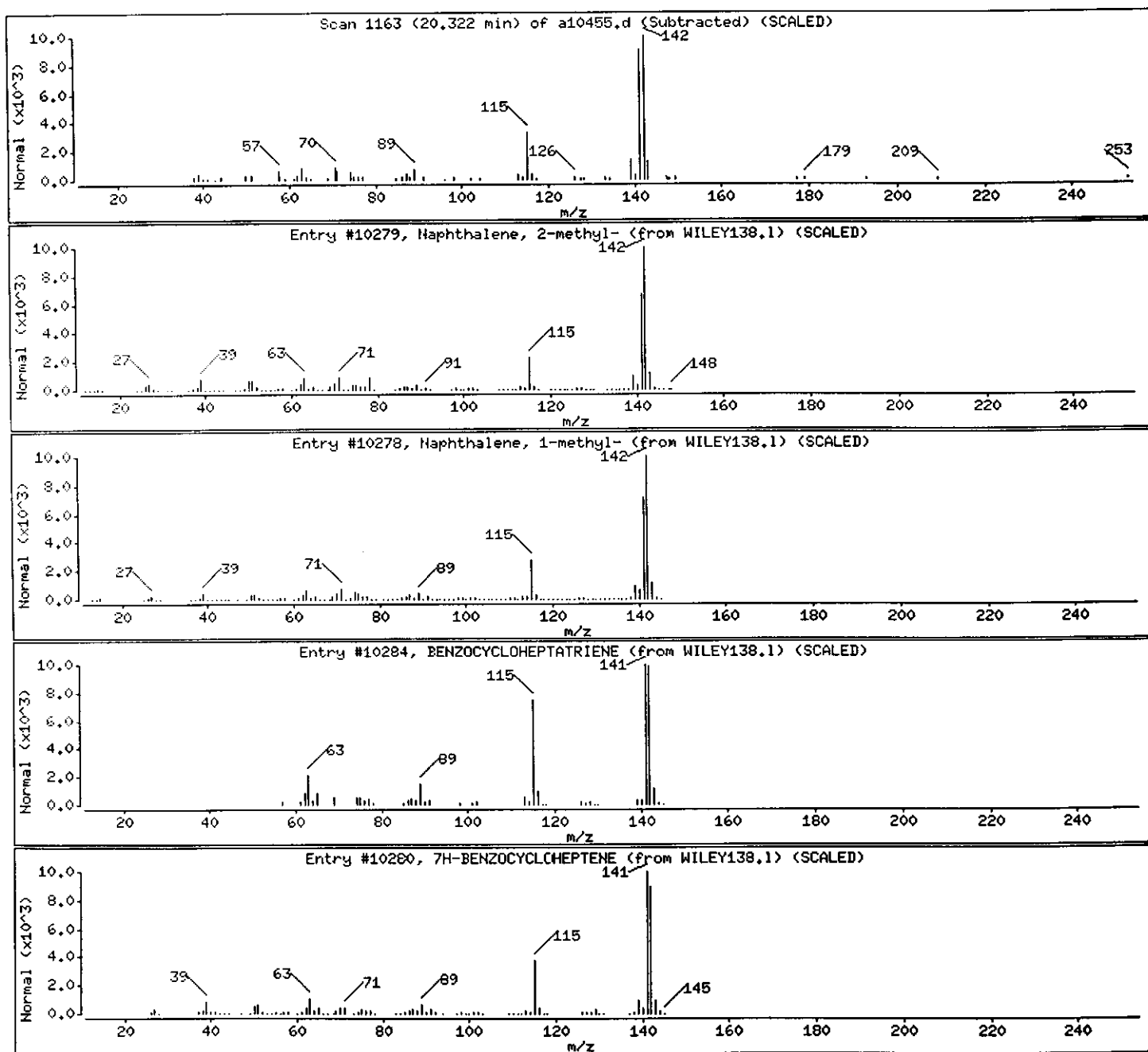
Sample Info: 237814;;;5.01;5

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Methylnaphthalene isomer						
Naphthalene, 2-methyl-	91-57-6	WILEY138.1	10279	95	C11H10	142
Naphthalene, 1-methyl-	90-12-0	WILEY138.1	10278	94	C11H10	142
BENZOCYCLOHEPTATRIENE	264-09-5	WILEY138.1	10284	91	C11H10	142
7H-BENZOCYCLOHEPTENE	0-00-0	WILEY138.1	10280	91	C11H10	142



Client ID: EB-4_1.5-2
Site: Rexam DSI

Lab Sample No: 237815
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Analyzed: 10/30/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10463.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.8 g
Purge Volume: 5.0 ml
% Moisture: 8

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Chloromethane	ND	4.6
Bromomethane	ND	4.6
Vinyl Chloride	ND	4.6
Chloroethane	ND	4.6
Methylene Chloride	ND	2.8
Trichlorofluoromethane	ND	4.6
1,1-Dichloroethene	ND	1.9
1,1-Dichloroethane	ND	4.6
trans-1,2-Dichloroethene	ND	4.6
cis-1,2-Dichloroethene	ND	4.6
Chloroform	ND	4.6
1,2-Dichloroethane	ND	1.9
1,1,1-Trichloroethane	ND	4.6
Carbon Tetrachloride	ND	1.9
Bromodichloromethane	ND	0.9
1,2-Dichloropropane	ND	0.9
cis-1,3-Dichloropropene	ND	4.6
Trichloroethene	ND	0.9
Dibromochloromethane	ND	4.6
1,1,2-Trichloroethane	ND	2.8
Benzene	ND	0.9
trans-1,3-Dichloropropene	ND	4.6
2-Chloroethyl Vinyl Ether	ND	4.6
Bromoform	ND	3.7
Tetrachloroethene	ND	0.9
1,1,2,2-Tetrachloroethane	ND	0.9
Toluene	0.6J	4.6
Chlorobenzene	ND	4.6
Ethylbenzene	ND	3.7
Xylene (Total)	ND	4.6

Client ID: EB-4_1.5-2
Site: Rexam DSI

Lab Sample No: 237815
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Analyzed: 10/30/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10463.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.8 g
Purge Volume: 5.0 ml
% Moisture: 7.9

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. Unknown Alkane	3.94	6.8	
2. 2,3-dihydro-methyl-1H-Indene isomer/Un	18.05	5.1	
3. _____			
4. _____			
5. _____			
6. _____			
7. _____			
8. _____			
9. _____			
10. _____			
11. _____			
12. _____			
13. _____			
14. _____			
15. _____			
16. _____			
17. _____			
18. _____			
19. _____			
20. _____			
21. _____			
22. _____			
23. _____			
24. _____			
25. _____			
26. _____			
27. _____			
28. _____			
29. _____			
30. _____			

TOTAL ESTIMATED CONCENTRATION

12

Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/30oct00.b/a10463.d
Report Date: 06-Nov-2000 15:05

STL Envirotech

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS1.i/8260LOW_SP/10-20-00/30oct00.b/a10463.d
Lab Smp ID: 237815 Client Smp ID: EB-4_1.5-2
Inj Date : 30-OCT-2000 11:35
Operator : VOAMS 8 Inst ID: VOAMS1.i
Smp Info : 237815;;;5.83;5
Misc Info : F104;1914;AT
Comment :
Method : /chem/VOAMS1.i/8260LOW_SP/10-20-00/30oct00.b/8260L_00.m
Meth Date : 03-Nov-2000 14:01 maryb Quant Type: ISTD
Cal Date : 20-OCT-2000 18:54 Cal File: a10343.d
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 3.50

Compound Sublist: PPVOA.sub

Concentration Formula: $\text{Amt} * \text{DF} * ((\text{Vt}/\text{Ws}) / ((100 - \text{M}) / 100)) * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	5.00000	Volume of final extract (mL)
Ws	5.83000	Weight of sample extracted (g)
M	7.90000	% Moisture (not decanted)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/Kg)
\$ 16 1,2-Dichloroethane-d4 (SUR)	65	9.674	9.671	(0.956)	1417256	49.4611	46
* 19 Fluorobenzene	96	10.117	10.129	(1.000)	4805534	50.0000	
\$ 37 Toluene-d8 (SUR)	98	12.067	12.064	(0.878)	3319457	52.1235	48
38 Toluene	91	12.156	12.153	(0.884)	50320	0.66244	0.62(a)
* 32 Chlorobenzene-d5	117	13.751	13.763	(1.000)	3285133	50.0000	
\$ 41 Bromofluorobenzene (SUR)	174	15.036	15.048	(0.924)	1895630	62.2847	58
* 91 1,4-Dichlorobenzene-d4	152	16.277	16.289	(1.000)	1381304	50.0000	

QC Flag Legend

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

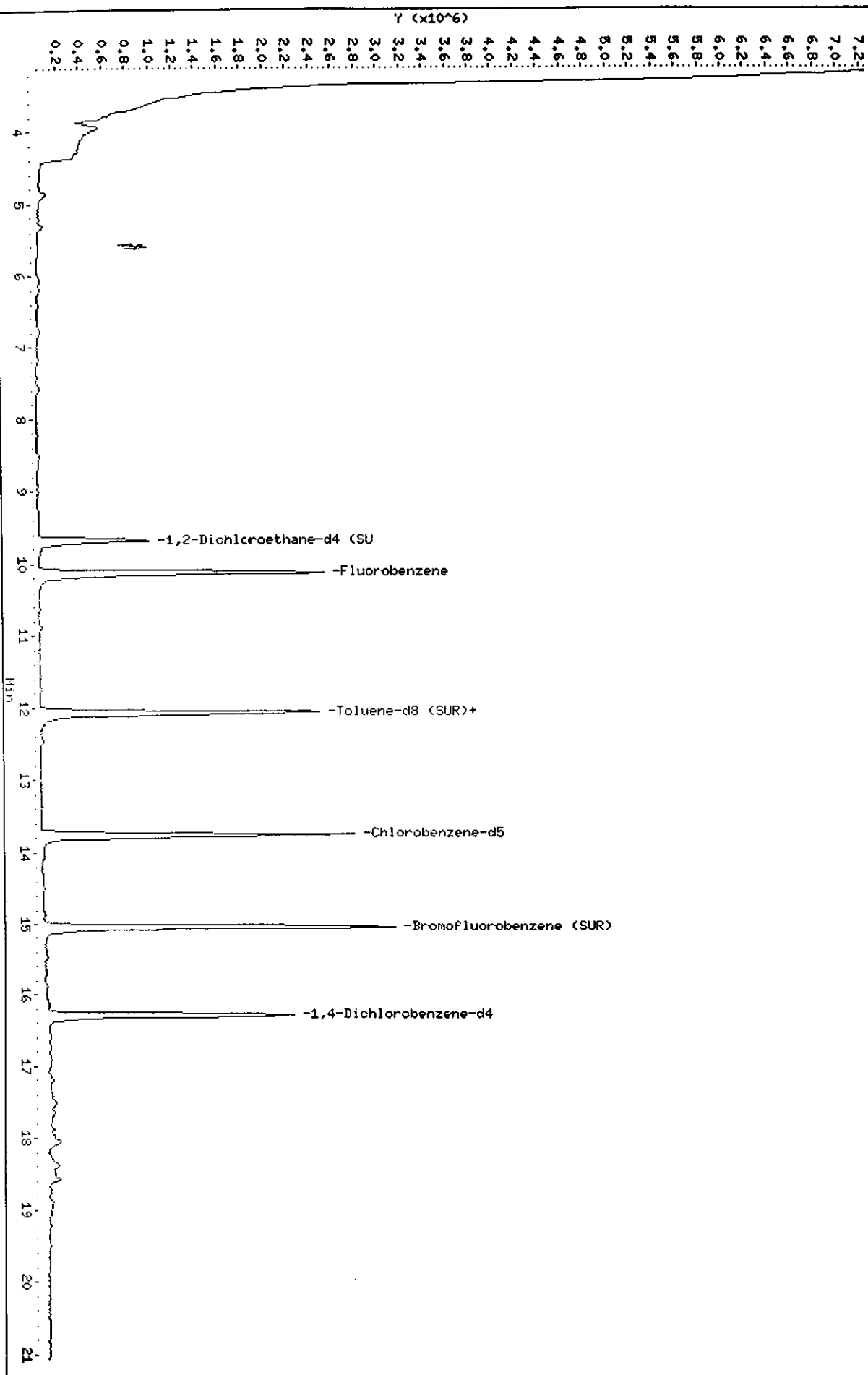
Data File: /chem/VOAHS1.i/8260L0M.SP/10-20-00/30oct00.b/a10463.d
Date : 30-OCT-2000 11:35
Client ID: EB-4.1.5-2
Sample Info: 237815;;5.83;5

Column phase: DB624

3

Instrument: VOAHS1.i
Operator: VOAHS 8
Column diameter: 0.53

/chem/VOAHS1.i/8260L0M.SP/10-20-00/30oct00.b/a10463.d



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/30oct00.b/a10463.d

Date : 30-OCT-2000 11:35

Client ID: EB-4_1.5-2

Sample Info: 237815;;;5.83;5

Instrument: VOAMS1.i

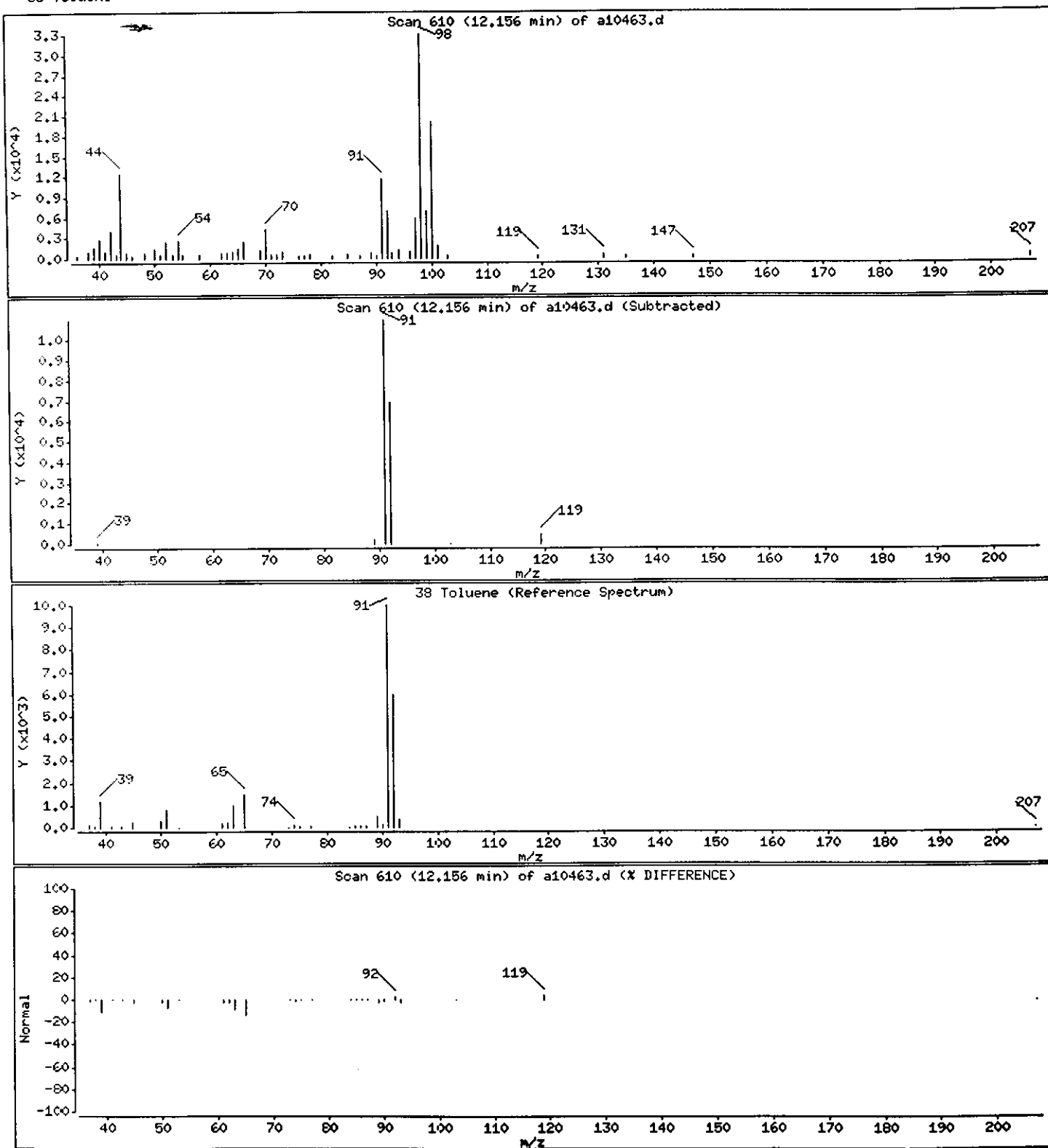
Operator: VOAMS 8

Column diameter: 0.53

Column phase: DB624

Concentration: 0.62 ug/Kg

38 Toluene



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/30oct00.b/a10463.d

Date : 30-OCT-2000 11:35

Client ID: EB-4_1,5-2

Instrument: VOAMS1.i

Sample Info: 237815;;;5.83;5

Operator: VOAMS 8

Column phase: DB624

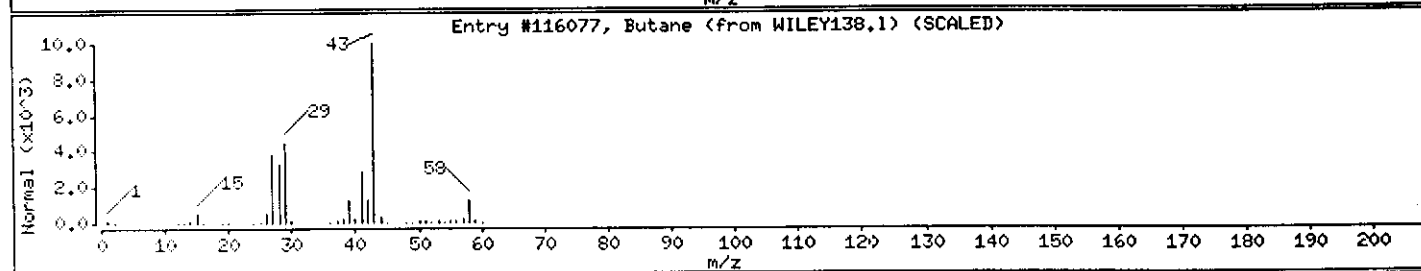
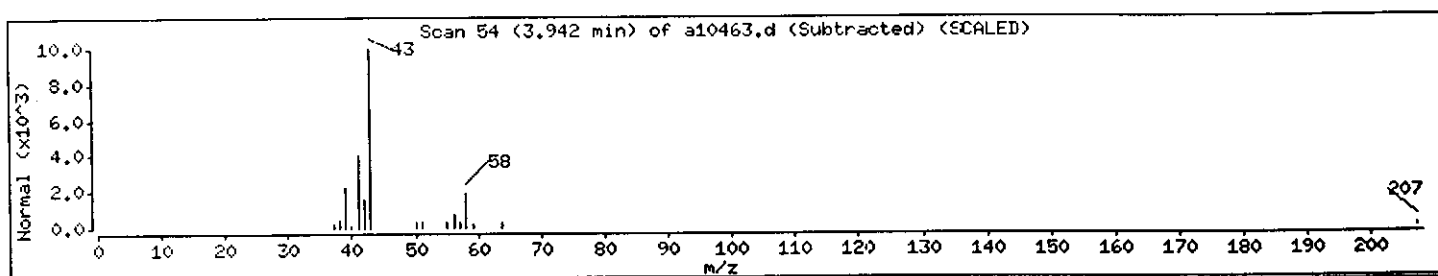
Column diameter: 0.53

Library Search Compound Match

Unknown Alkane

Butane

CAS Number	Library	Entry	Quality	Formula	Weight
106-97-8	WILEY138.1	116077	40	C4H10	58



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/30oct00,b/a10463.d

Date : 30-OCT-2000 11:35

Client ID: EB-4_1,5-2

Instrument: VOAMS1.i

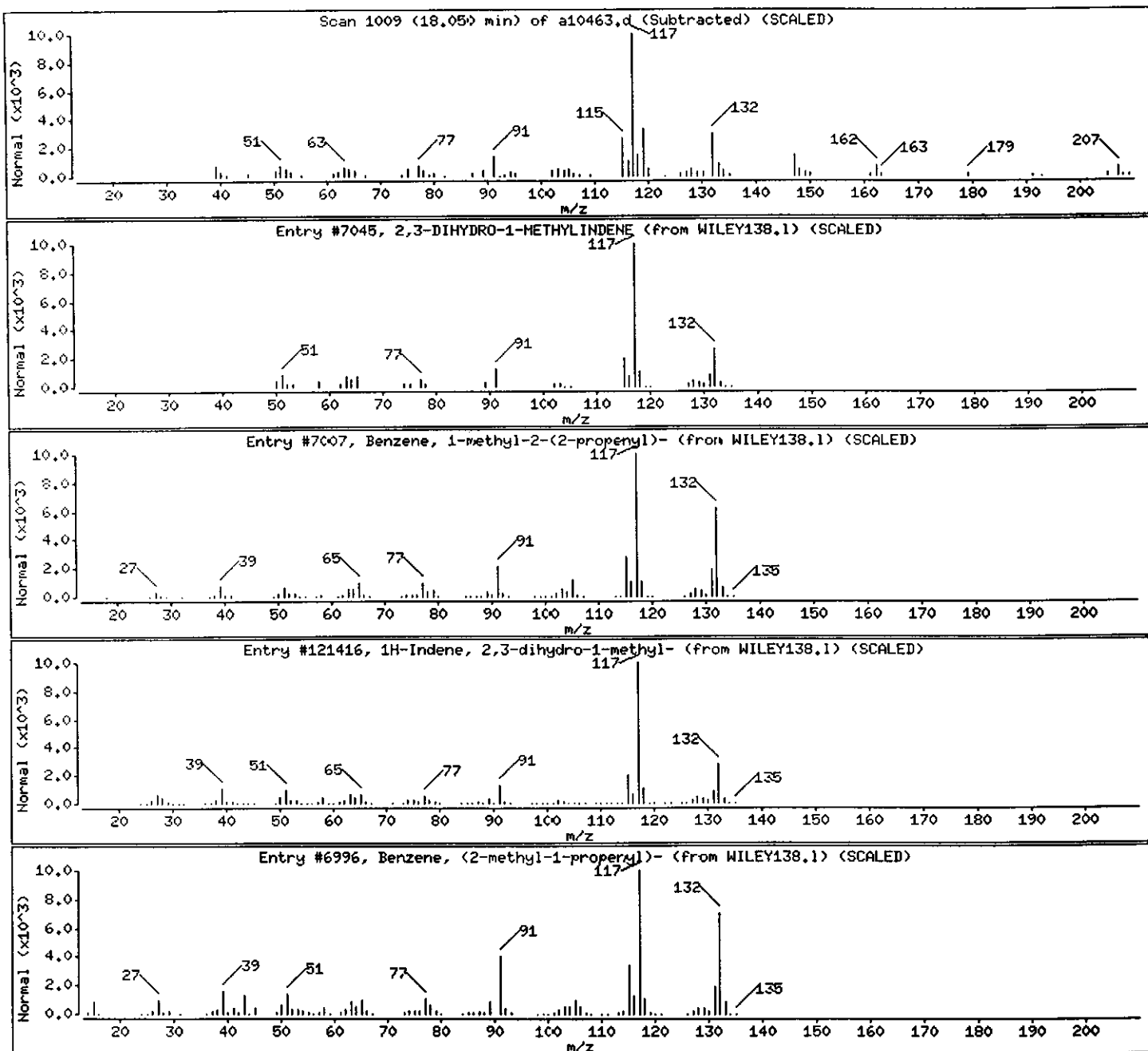
Sample Info: 237815;;;5.83;5

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2,3-dihydro-methyl-1H-Indene isomer/Unknown						
2,3-DIHYDRO-1-METHYLINDENE	27133-93-3	WILEY138.1	7045	93	C10H12	132
Benzene, 1-methyl-2-(2-propenyl)-	1587-04-8	WILEY138.1	7007	76	C10H12	132
1H-Indene, 2,3-dihydro-1-methyl-	767-58-8	WILEY138.1	121416	76	C10H12	132
Benzene, (2-methyl-1-propenyl)-	768-49-0	WILEY138.1	6996	68	C10H12	132



Client ID: EB-5_1.2-1.7
Site: Rexam DSI

Lab Sample No: 237816
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Analyzed: 10/30/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10464.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.7 g
Purge Volume: 5.0 ml
% Moisture: 10

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Chloromethane	ND	4.9
Bromomethane	ND	4.9
Vinyl Chloride	ND	4.9
Chloroethane	ND	4.9
Methylene Chloride	ND	2.9
Trichlorofluoromethane	1.0J	4.9
1,1-Dichloroethene	ND	1.9
1,1-Dichloroethane	ND	4.9
trans-1,2-Dichloroethene	ND	4.9
cis-1,2-Dichloroethene	ND	4.9
Chloroform	ND	4.9
1,2-Dichloroethane	ND	1.9
1,1,1-Trichloroethane	ND	4.9
Carbon Tetrachloride	ND	1.9
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	4.9
Trichloroethene	ND	1.0
Dibromochloromethane	ND	4.9
1,1,2-Trichloroethane	ND	2.9
Benzene	ND	1.0
trans-1,3-Dichloropropene	ND	4.9
2-Chloroethyl Vinyl Ether	ND	4.9
Bromoform	ND	3.9
Tetrachloroethene	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	0.7J	4.9
Chlorobenzene	ND	4.9
Ethylbenzene	ND	3.9
Xylene (Total)	ND	4.9

Client ID: EB-5_1.2-1.7
Site: Rexam DSI

Lab Sample No: 237816
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Analyzed: 10/30/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10464.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.7 g
Purge Volume: 5.0 ml
% Moisture: 10.3

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/30oct00.b/a10464.d
Report Date: 31-Oct-2000 15:09

STL Envirotech

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS1.i/8260LOW_SP/10-20-00/30oct00.b/a10464.d
Lab Smp ID: 237816 Client Smp ID: EB-5_1.2-1.7
Inj Date : 30-OCT-2000 12:06
Operator : VOAMS 8 Inst ID: VOAMS1.i
Smp Info : 237816;;;5.72;5
Misc Info : F104;1914;AT
Comment :
Method : /chem/VOAMS1.i/8260LOW_SP/10-20-00/30oct00.b/8260L_00.m
Meth Date : 30-Oct-2000 08:34 audberto Quant Type: ISTD
Cal Date : 20-OCT-2000 18:54 Cal File: a10343.d
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 3.50

KUB

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	5.00000	Volume of final extract (mL)
Ws	5.72000	Weight of sample extracted (g)
M	10.30000	% Moisture (not decanted)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/Kg)
9 Trichlorofluoromethane	101	5.212	5.194	(0.514)	55493	1.00232	0.98 (a)
\$ 16 1,2-Dichloroethane-d4 (SUR)	65	9.674	9.671	(0.955)	1312887	53.0683	52
* 19 Fluorobenzene	96	10.132	10.129	(1.000)	4149057	50.0000	
\$ 37 Toluene-d8 (SUR)	98	12.067	12.064	(0.877)	2824602	61.3818	60
38 Toluene	91	12.171	12.153	(0.884)	39950	0.72784	0.71 (a)
* 32 Chlorobenzene-d5	117	13.766	13.763	(1.000)	2373765	50.0000	
\$ 41 Bromofluorobenzene (SUR)	174	15.037	15.046	(0.923)	1119797	77.6019	76
* 91 1,4-Dichlorobenzene-d4	152	16.293	16.289	(1.000)	654914	50.0000	

QC Flag Legend

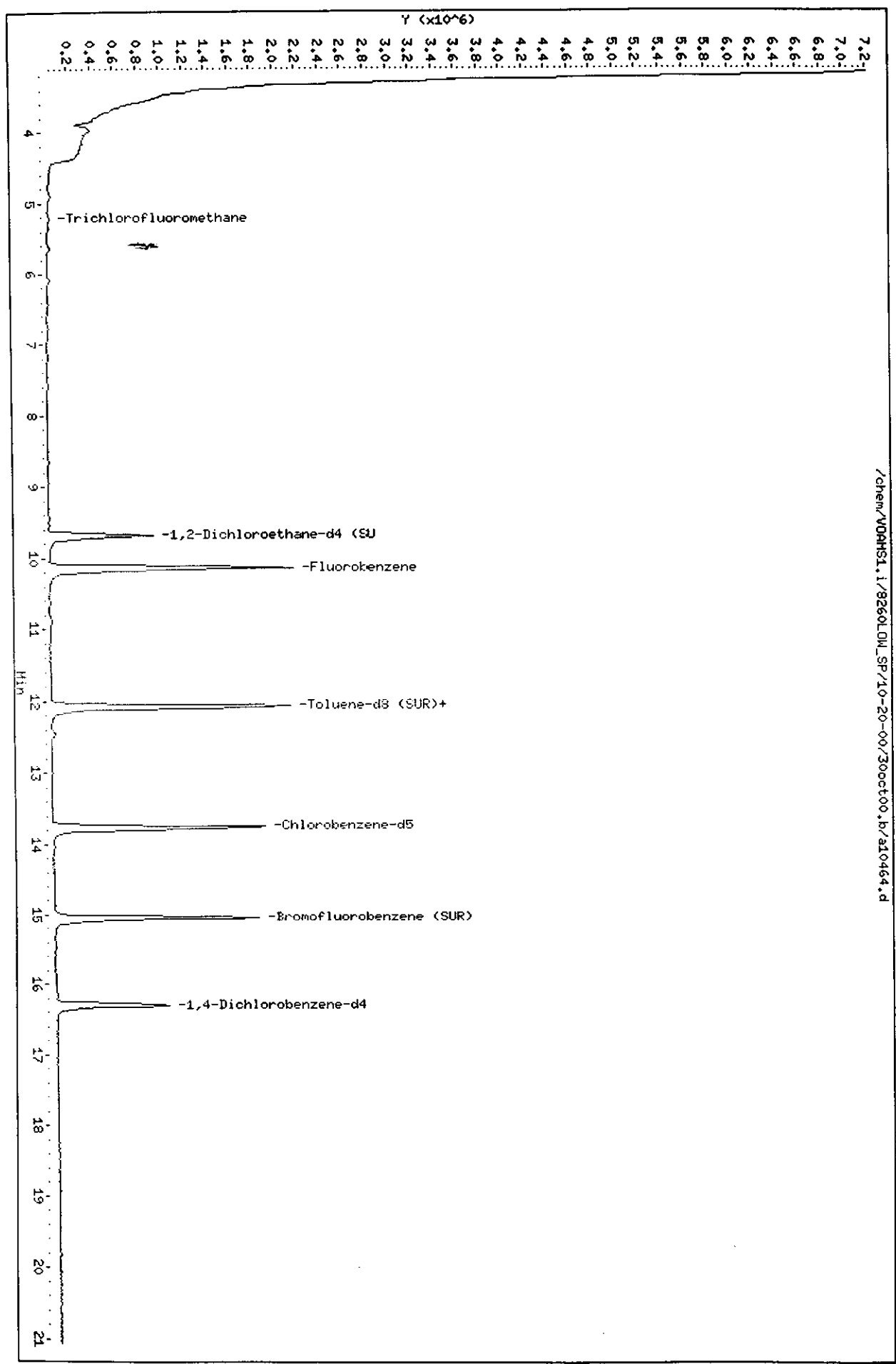
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /chem/VOAHS1.i/8260LDM_SP/10-20-00/30oct00.b/a10464.d
Date : 30-OCT-2000 12:06
Client ID: EB-S_1.2-1.7
Sample Info: 237816;15.72;5

Column phase: DB624

Instrument: VOAHS1.i
Operator: VOAHS 8
Column diameter: 0.53

KUB



Data File: /chem/VOAHS1.i/8260LOW_SP/10-20-00/30oct00.b/a10464.d

Date : 30-OCT-2000 12:06

Client ID: EB-5.1.2-1.7

Sample Info: 237816;;;5.72;5

Instrument: VOAHS1.i

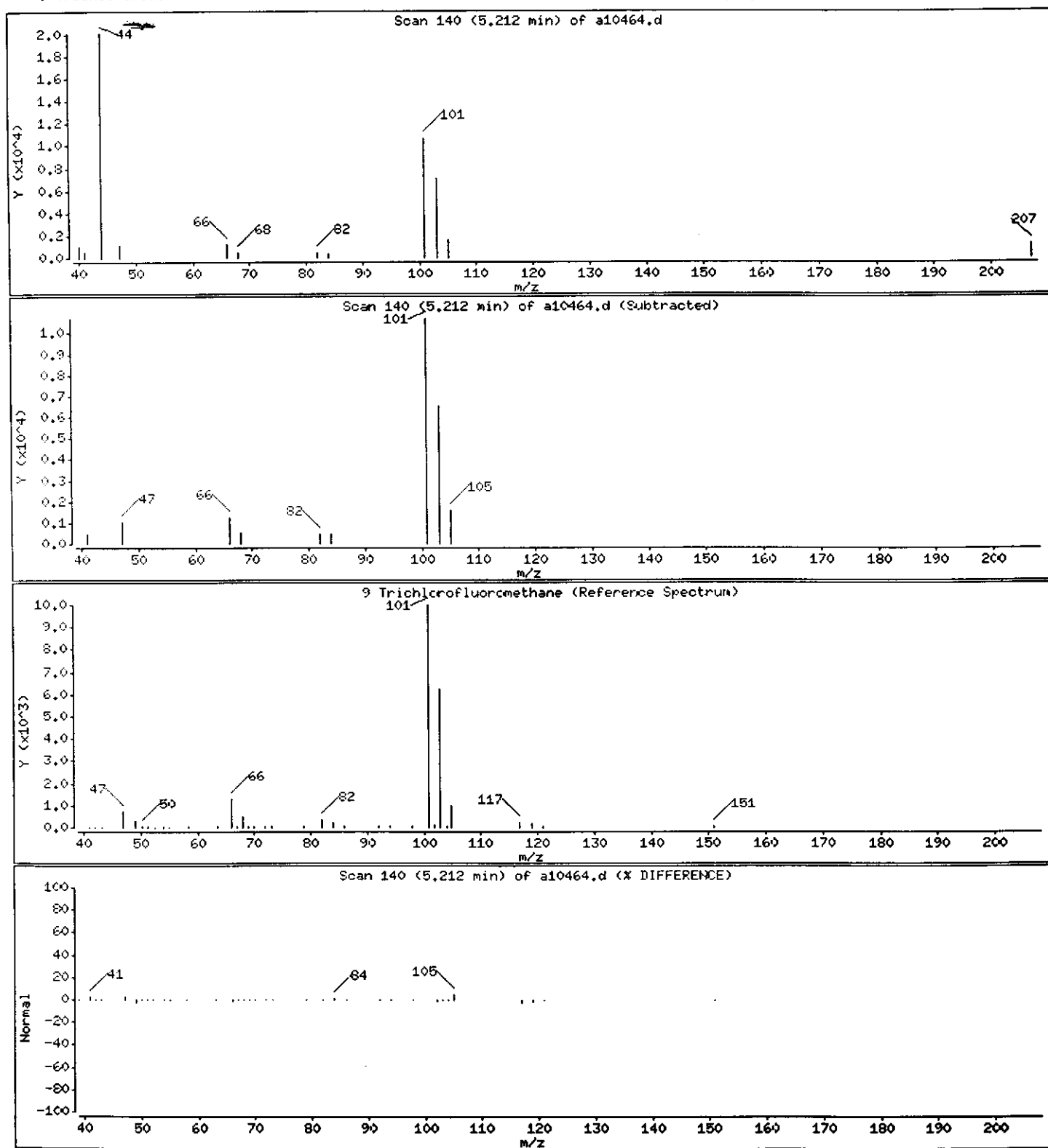
Operator: VOAHS 8

Column phase: DB624

Column diameter: 0.53

9 Trichlorofluoromethane

Concentration: 0.98 ug/Kg



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/30oct00.b/a10464.d

Date : 30-OCT-2000 12:06

Client ID: EB-5.1.2-1.7

Instrument: VOAMS1.i

Sample Info: 237816;;;5.72;5

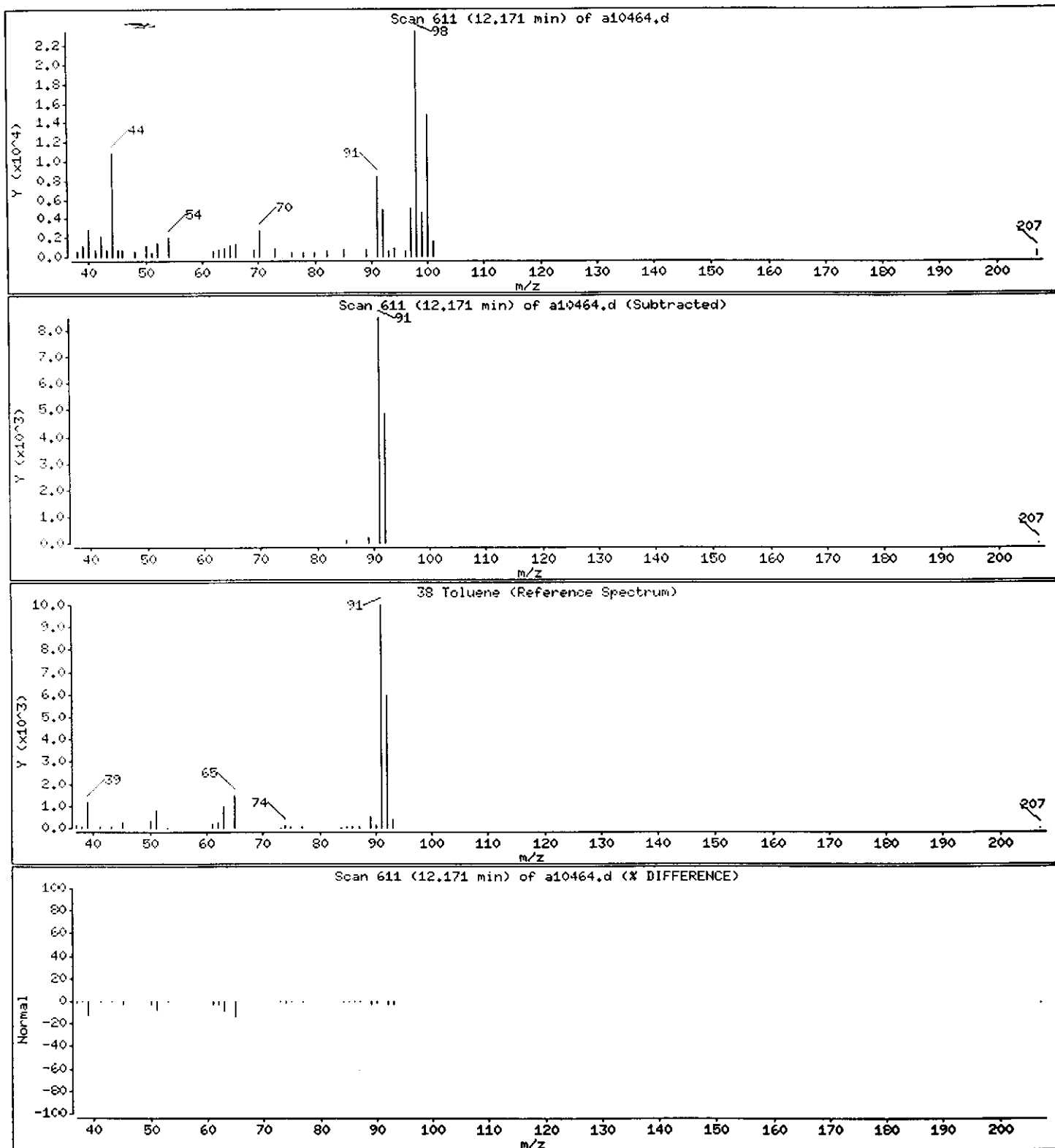
Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

38 Toluene

Concentration: 0.71 ug/Kg



Client ID: EB-6_Outfall
Site: Rexam DSI

Lab Sample No: 237817
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Analyzed: 10/30/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10465.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.1 g
Purge Volume: 5.0 ml
% Moisture: 22

VOLATILE ORGANICS - GC/MS
METHOD 8260B

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Chloromethane	ND	6.3
Bromomethane	ND	6.3
Vinyl Chloride	ND	6.3
Chloroethane	ND	6.3
Methylene Chloride	2.5JB	3.8
Trichlorofluoromethane	ND	6.3
1,1-Dichloroethene	ND	2.5
1,1-Dichloroethane	ND	6.3
trans-1,2-Dichloroethene	ND	6.3
cis-1,2-Dichloroethene	ND	6.3
Chloroform	ND	6.3
1,2-Dichloroethane	ND	2.5
1,1,1-Trichloroethane	ND	6.3
Carbon Tetrachloride	ND	2.5
Bromodichloromethane	ND	1.2
1,2-Dichloropropane	ND	1.2
cis-1,3-Dichloropropene	ND	6.3
Trichloroethene	ND	1.2
Dibromochloromethane	ND	6.3
1,1,2-Trichloroethane	ND	3.8
Benzene	1.3	1.2
trans-1,3-Dichloropropene	ND	6.3
2-Chloroethyl Vinyl Ether	ND	6.3
Bromoform	ND	5.0
Tetrachloroethene	ND	1.2
1,1,2,2-Tetrachloroethane	ND	1.2
Toluene	1.5J	6.3
Chlorobenzene	ND	6.3
Ethylbenzene	ND	5.0
Xylene (Total)	ND	6.3

Client ID: EB-6 Outfall
Site: Rexam DSI

Lab Sample No: 237817
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Analyzed: 10/30/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10465.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.1 g
Purge Volume: 5.0 ml
% Moisture: 22.5

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. Unknown Alkene	3.35	340	
2. Unknown	3.70	46	
3. Unknown Alkene	3.97	130	
4. Unknown Alkene	4.31	48	
5. C5H12 Alkane	4.91	17	
6. C5H10 Alkene	5.25	20	
7. Unknown	5.36	32	
8. 2-Propanone	6.05	17	
9. Unknown Alkane	6.82	8.8	
10. 2-Butanone	8.58	9.7	
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

668

Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/30oct00.b/a10465.d
Report Date: 01-Nov-2000 16:55

STL Envirotech

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS1.i/8260LOW_SP/10-20-00/30oct00.b/a10465.d
Lab Smp ID: 237817 Client Smp ID: EB-6_Outfall
Inj Date : 30-OCT-2000 12:38
Operator : VOAMS 8 *was 11/10* Inst ID: VOAMS1.i
Smp Info : 237817;;;5.14;5
Misc Info : F104;1914;AT
Comment :
Method : /chem/VOAMS1.i/8260LOW_SP/10-20-00/30oct00.b/8260L_00.m
Meth Date : 30-Oct-2000 08:34 audberto Quant Type: ISTD
Cal Date : 20-OCT-2000 18:54 Cal File: a10343.d
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPVOA.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	5.00000	Volume of final extract (mL)
Ws	5.14000	Weight of sample extracted (g)
M	22.50000	% Moisture (not decanted)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L) FINAL (ug/Kg)
6 Methylene Chloride	84	6.687	6.716	(0.660)	30287	1.96949	2.5(a)
\$ 16 1,2-Dichloroethane-d4 (SUR)	65	9.686	9.671	(0.956)	876296	64.9138	81
28 Benzene	78	9.819	9.789	(0.969)	37568	1.00515	1.3
* 19 Fluorobenzene	96	10.129	10.129	(1.000)	2263971	50.0000	
\$ 37 Toluene-d8 (SUR)	98	12.079	12.064	(0.878)	1314419	62.8396	79
38 Toluene	91	12.168	12.153	(0.884)	29963	1.20094	1.5(a)
* 32 Chlorobenzene-d5	117	13.764	13.763	(1.000)	1078997	50.0000	
\$ 41 Bromofluorobenzene (SUR)	174	15.049	15.048	(0.924)	509958	77.1653	97
* 91 1,4-Dichlorobenzene-d4	152	16.290	16.289	(1.000)	299937	50.0000	

QC Flag Legend

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

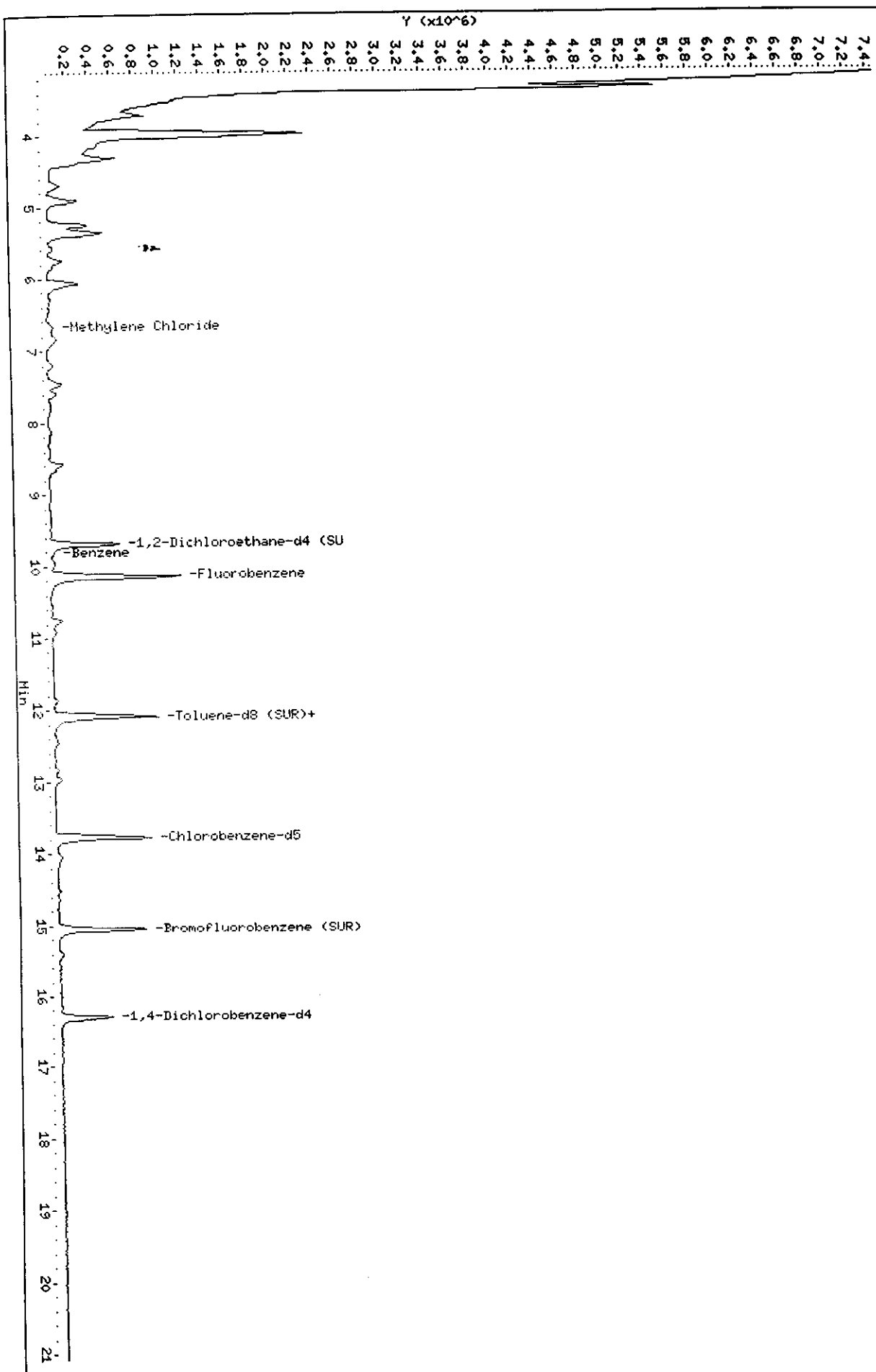
confirmed by A10465.

Data File: /chem/VOAHS1.i/8260L0M.SP/10-20-00/30oct00.b/a10465.d
Date : 30-OCT-2000 12:38
Client ID: EB-6_Outfall
Sample Info: 237817;;5.14;5

Column phase: DB624

Instrument: VOAHS1.i
Operator: VOAHS 8
Column diameter: 0.53

/chem/VOAHS1.i/8260L0M.SP/10-20-00/30oct00.b/a10465.d



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/30oct00.b/a10465.d

Date : 30-OCT-2000 12:38

Client ID: EB-6_Outfall

Instrument: VOAMS1.i

Sample Info: 237817;;;5.14;5

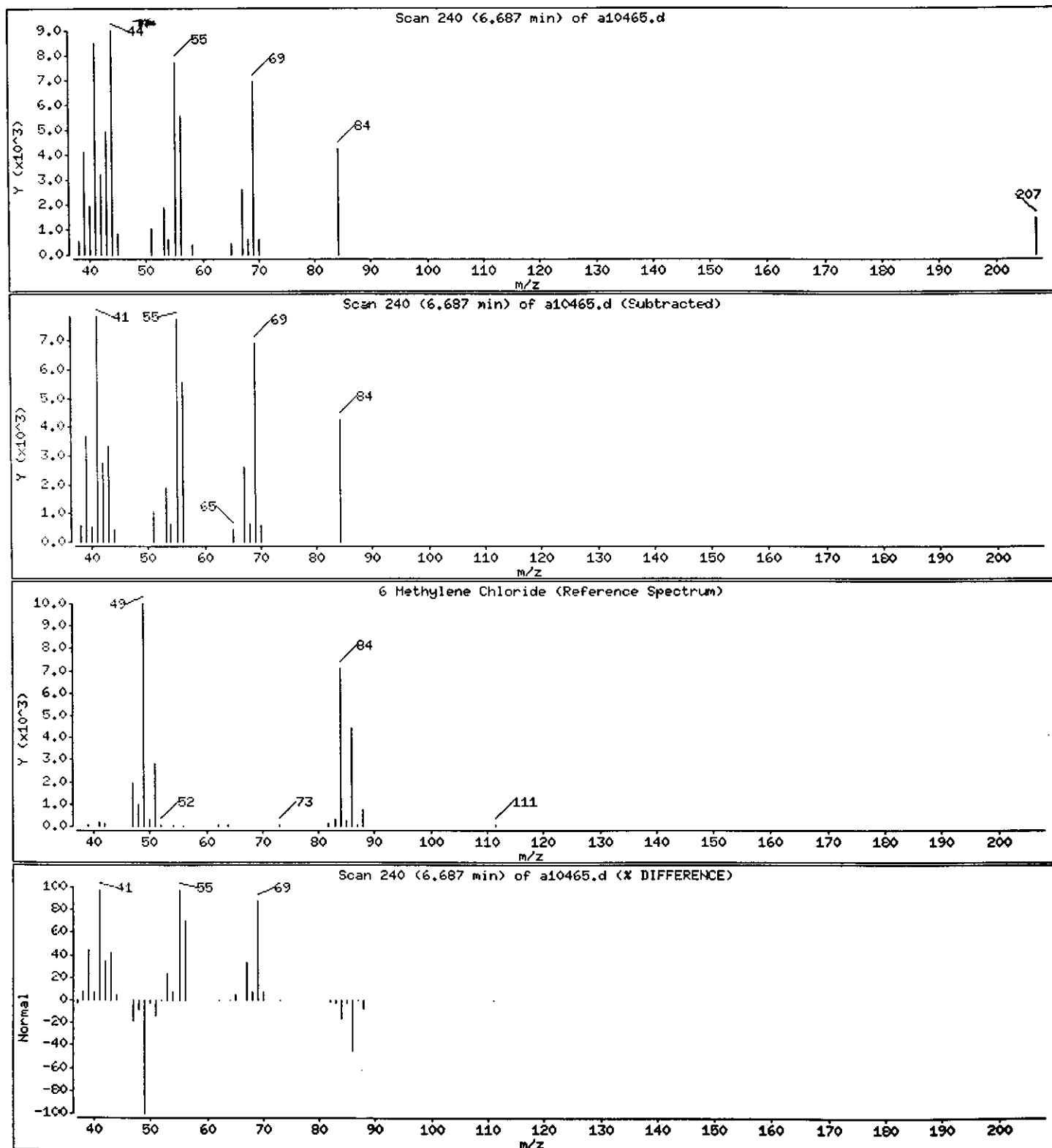
Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

6 Methylene Chloride

Concentration: 2.5 ug/Kg



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/30oct00.b/a10465.d

Date : 30-OCT-2000 12:38

Client ID: EB-6_Outfall

Sample Info: 237817;;;5.14;5

Instrument: VOAMS1.i

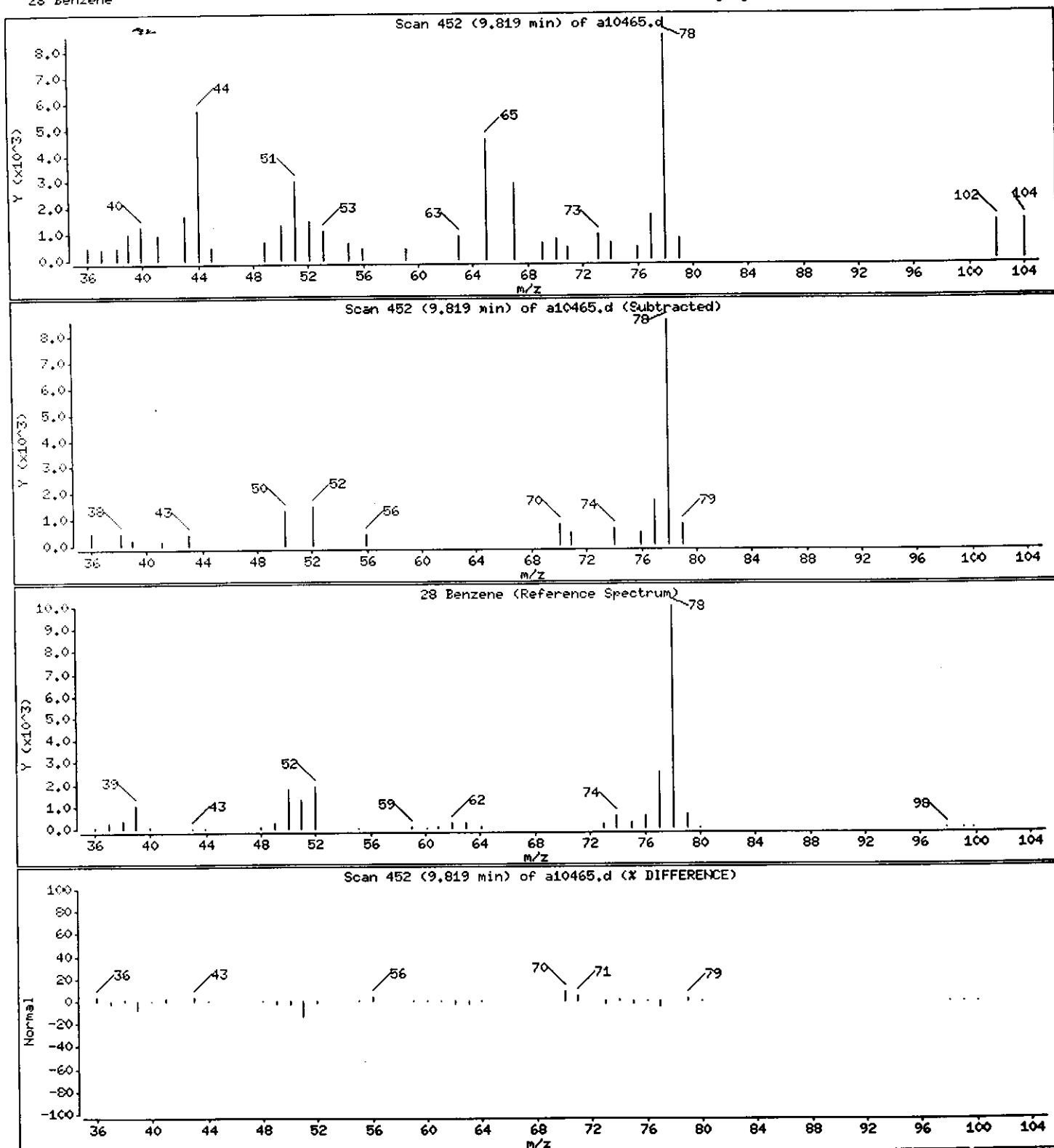
Operator: VOAMS 8

Column diameter: 0.53

Column phase: DB624

28 Benzene

Concentration: 1.3 ug/Kg



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/30oct00.b/a10465.d

Date : 30-OCT-2000 12:38

Client ID: EB-6_Outfall

Instrument: VOAMS1.i

Sample Info: 237817;;;5.14;5

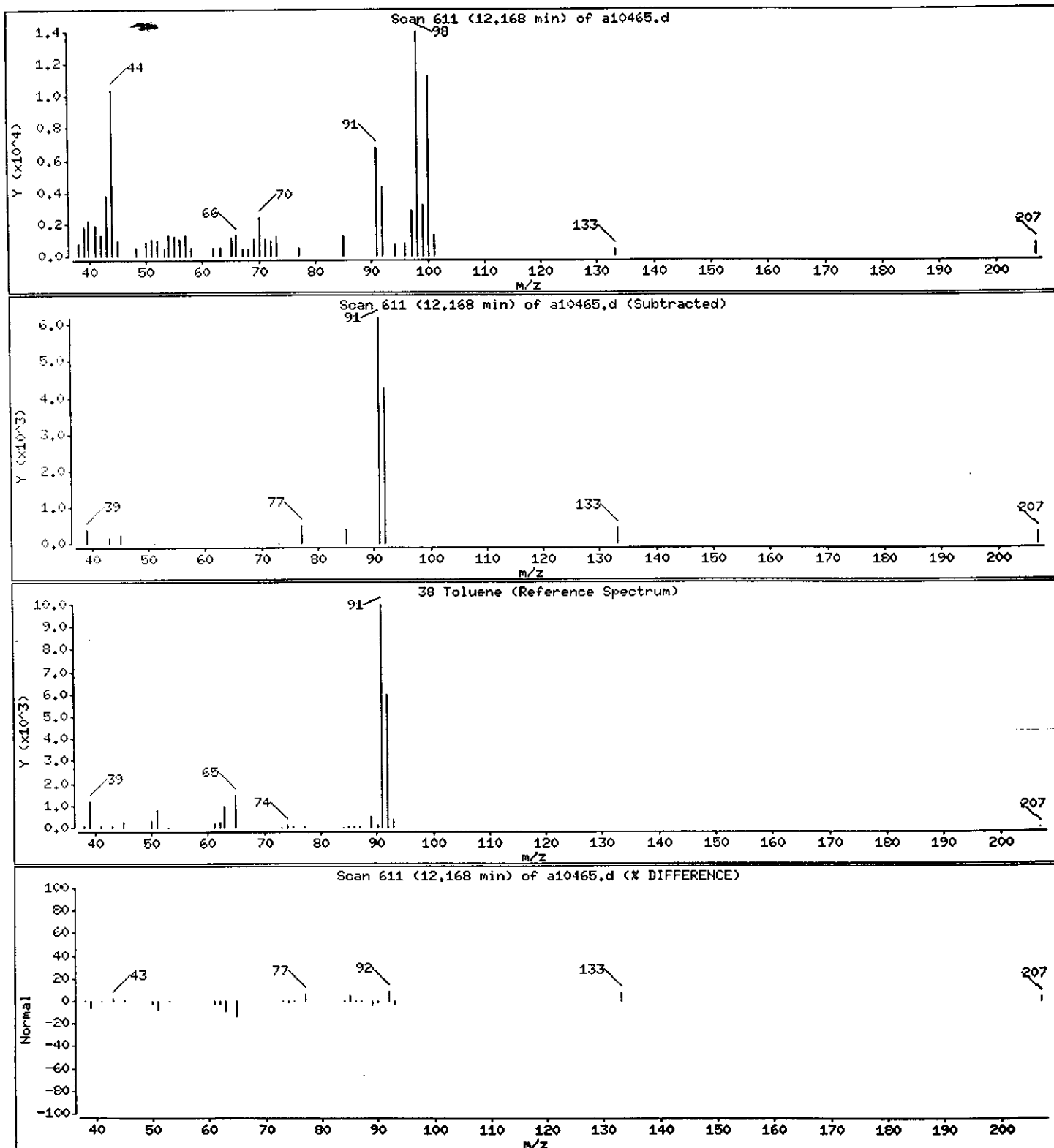
Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

38 Toluene

Concentration: 1.5 ug/Kg



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/30oct00.b/a10465.d

Date : 30-OCT-2000 12:38

Client ID: EB-6_Outfall

Instrument: VOAMS1.i

Sample Info: 237817;;;5.14;5

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

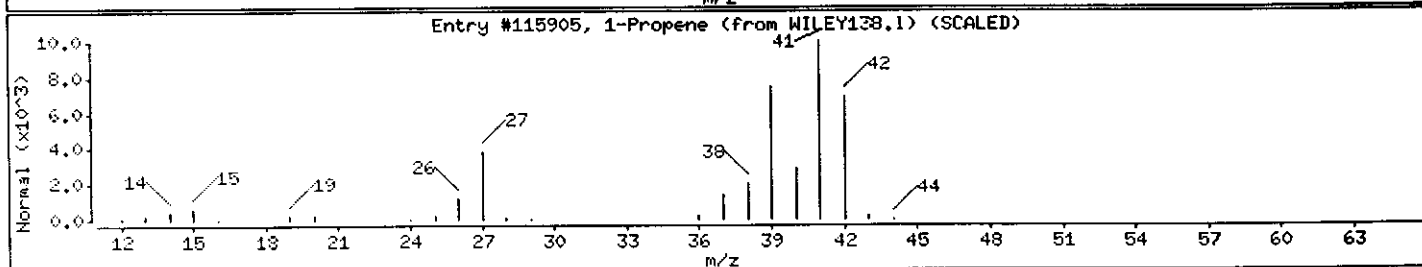
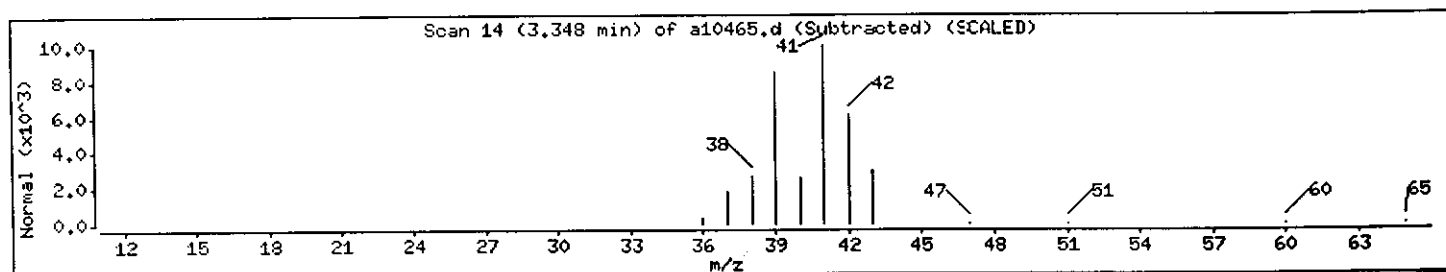
Library Search Compound Match

CAS Number	Library	Entry	Quality	Formula	Weight

Unknown Alkene

115-07-1	WILEY138.1	115905	72	C3H6	42

1-Propene



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/30oct00.b/a10465.d

Date : 30-OCT-2000 12:38

Client ID: EB-6_Outfall

Instrument: VOAMS1.i

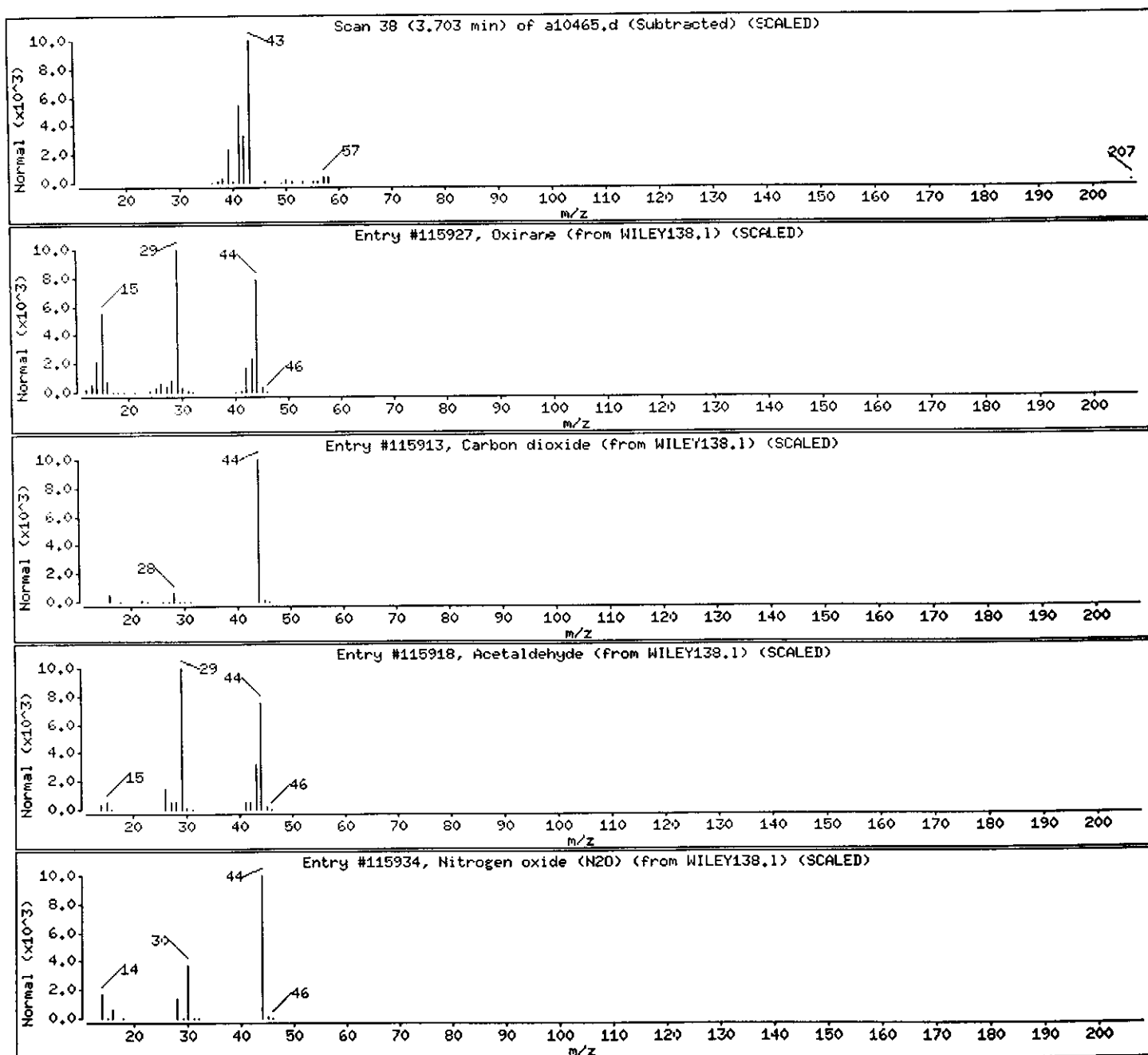
Sample Info: 237817;;;5.14;5

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Oxirane	75-21-8	WILEY138.1	115927	5	C2H4O	44
Carbon dioxide	124-38-9	WILEY138.1	115913	5	CO2	44
Acetaldehyde	75-07-0	WILEY138.1	115918	5	C2H4O	44
Nitrogen oxide (N2O)	10024-97-2	WILEY138.1	115934	3	N2O	44



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/30oct00.b/a10465.d

Date : 30-OCT-2000 12:38

Client ID: EB-6_Outfall

Instrument: VOAMS1.i

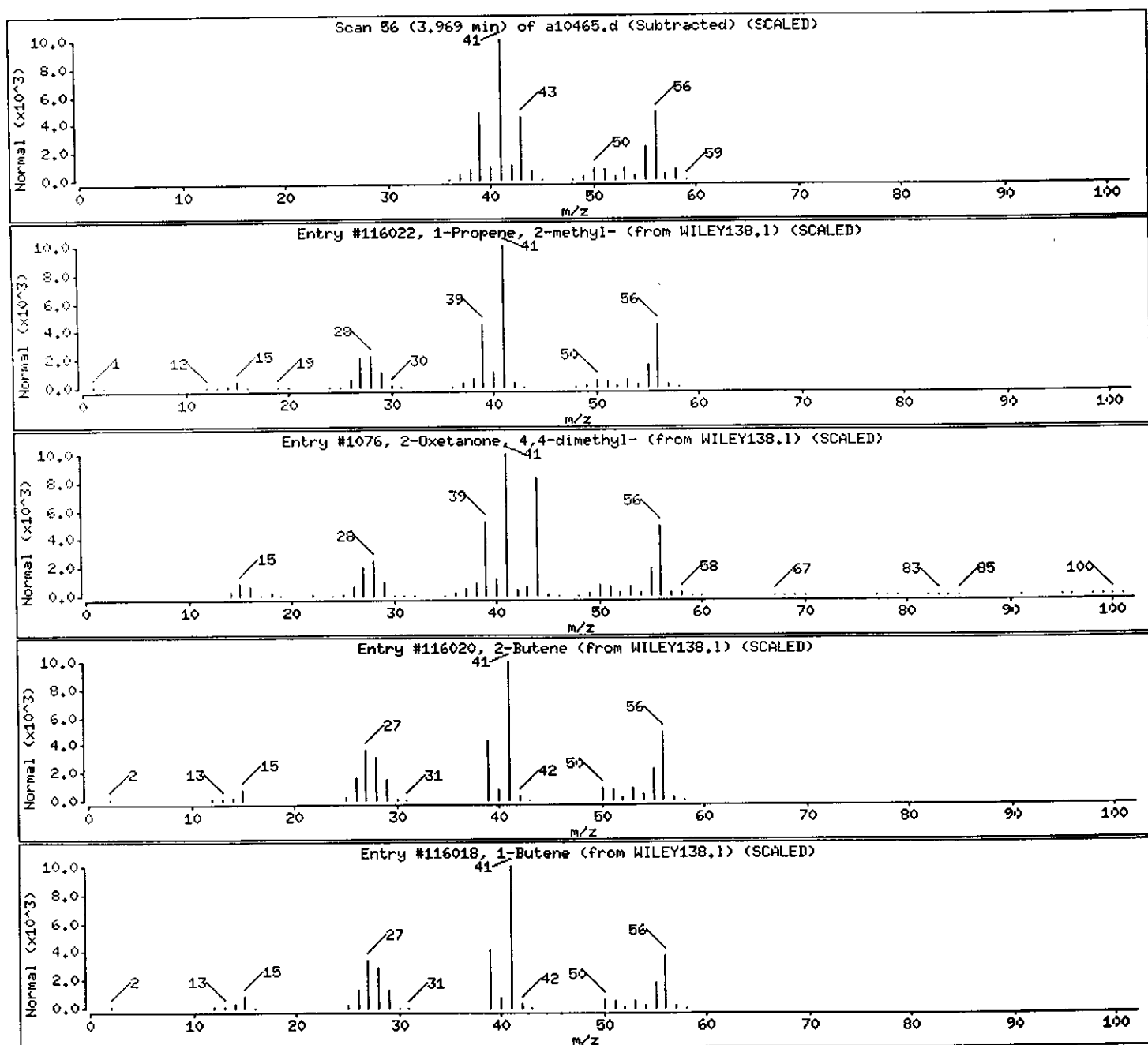
Sample Info: 237817;;;5.14;5

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkene						
1-Propene, 2-methyl-	115-11-7	WILEY138.1	116022	74	C4H8	56
2-Oxetanone, 4,4-dimethyl-	1823-52-5	WILEY138.1	1076	72	C5H8O2	100
2-Butene	107-01-7	WILEY138.1	116020	59	C4H8	56
1-Butene	106-98-9	WILEY138.1	116018	59	C4H8	56



Data File: /chem/VOAMS1.1/8260LOW_SP/19-20-00/30oct00.b/a10465.d

Date : 30-OCT-2000 12:38

Client ID: EB-6_Outfall

Sample Info: 237817;;;5.14;5

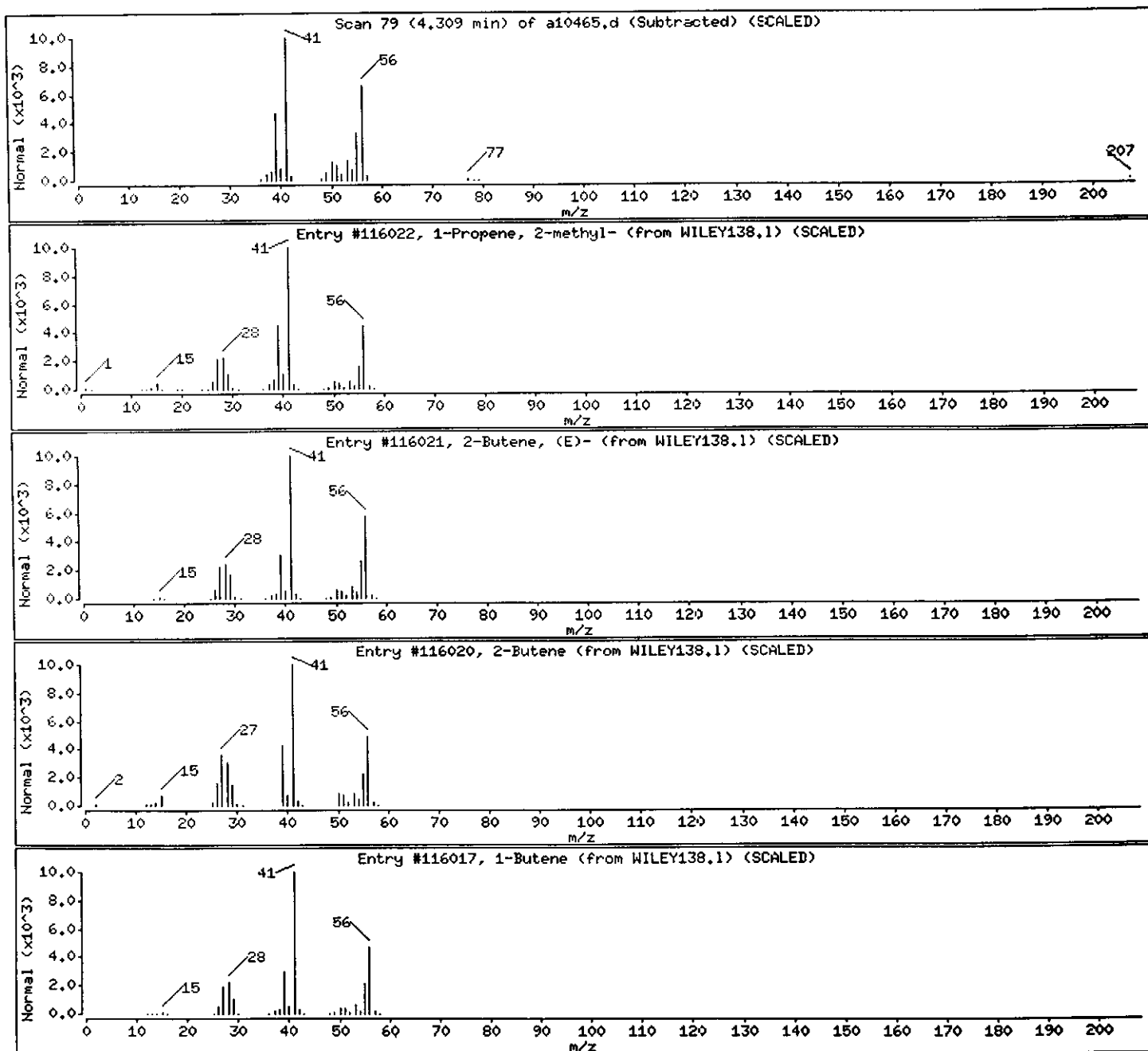
Instrument: VOAMS1.1

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkene						
1-Propene, 2-methyl-	115-11-7	WILEY138.1	116022	72	C4H8	56
2-Butene, (E)-	624-64-6	WILEY138.1	116021	64	C4H8	56
2-Butene	107-01-7	WILEY138.1	116020	53	C4H8	56
1-Butene	106-98-9	WILEY138.1	116017	53	C4H8	56



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/30oct00.b/a10465.d

Date : 30-OCT-2000 12:38

Client ID: EB-6_Outfall

Instrument: VOAMS1.i

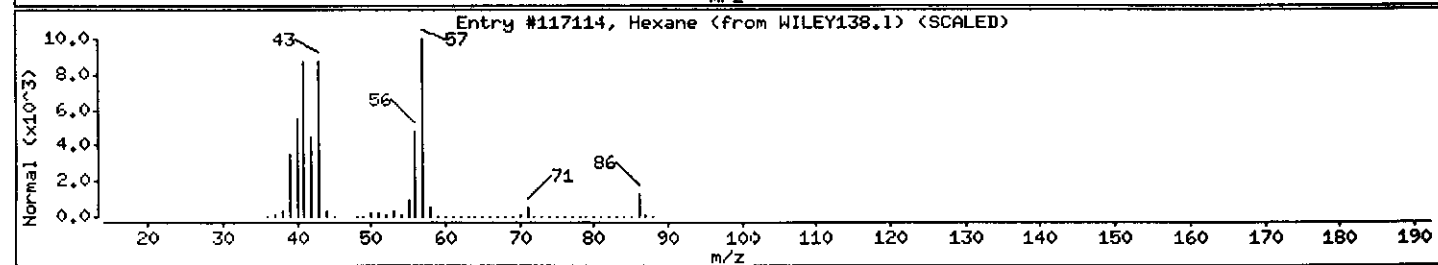
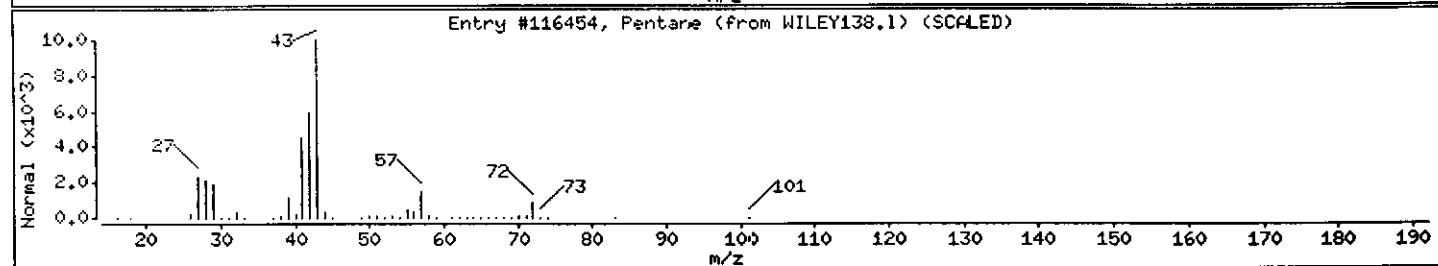
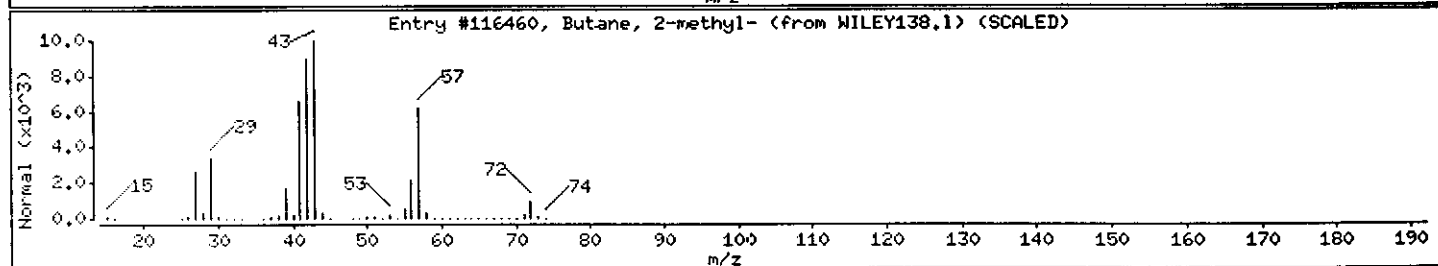
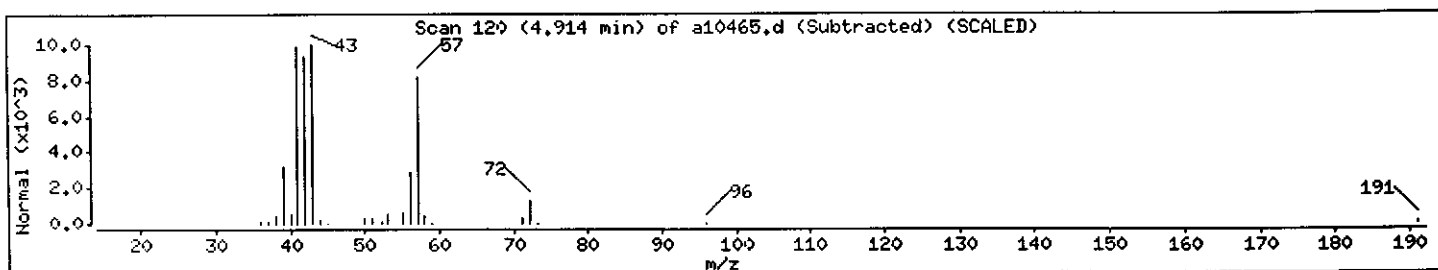
Sample Info: 237817;;;5.14;5

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
C5H12 Alkane						
Butane, 2-methyl-	78-78-4	WILEY138.1	116460	90	C5H12	72
Pentane	109-66-0	WILEY138.1	116454	53	C5H12	72
Hexane	110-54-3	WILEY138.1	117114	25	C6H14	86



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/30oct00.b/a10465.d

Date : 30-OCT-2000 12:38

Client ID: EB-6_Outfall

Sample Info: 237817;;;5.14;5

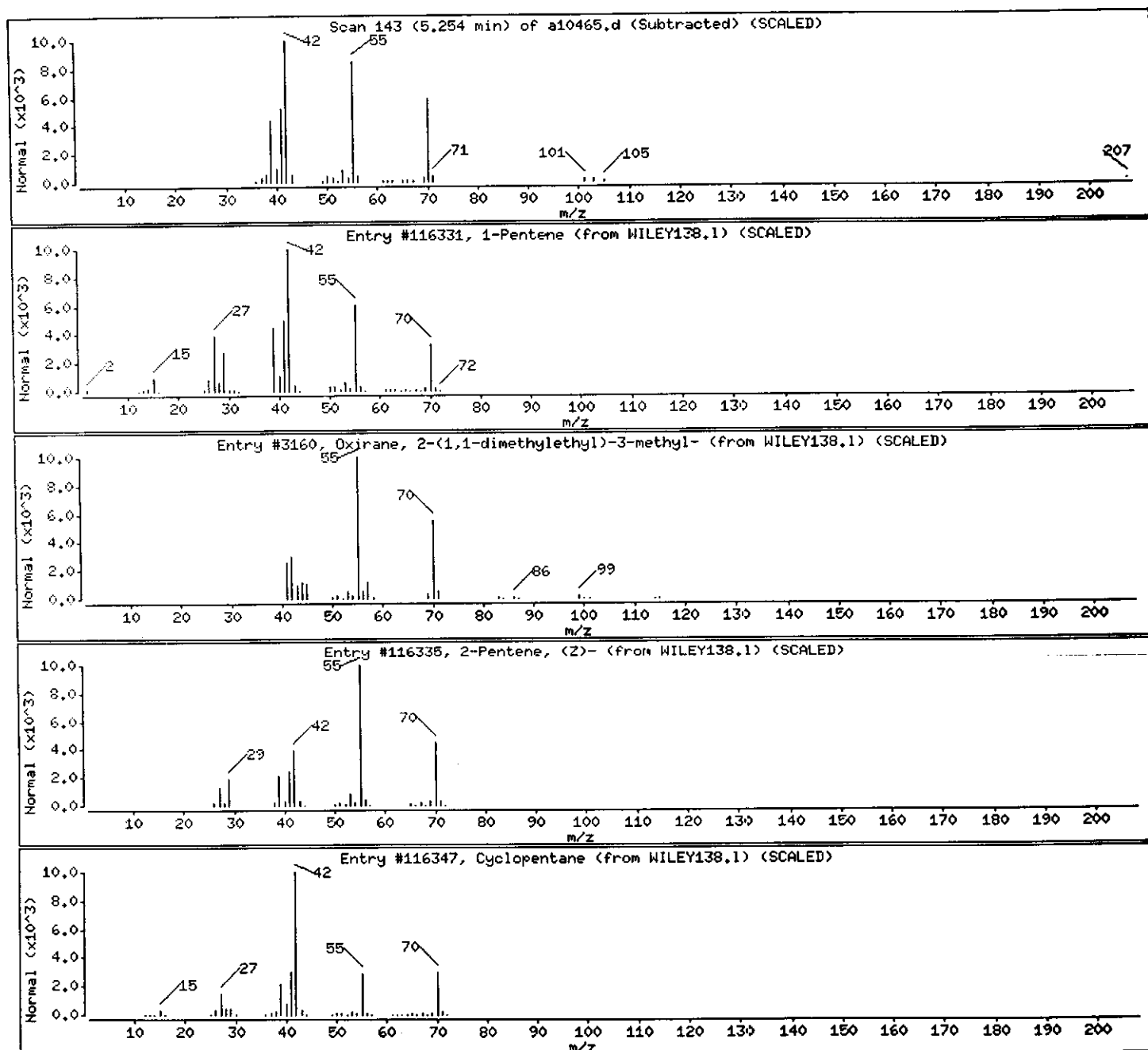
Instrument: VOAMS1.i

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
C5H10 Alkene						
1-Pentene	109-67-1	WILEY138.1	116331	78	C5H10	70
Oxirane, 2-(1,1-dimethylethyl)-3-methyl-	53897-30-6	WILEY138.1	3160	64	C7H14O	114
2-Pentene, (Z)-	627-20-3	WILEY138.1	116335	59	C5H10	70
Cyclopentane	287-92-3	WILEY138.1	116347	58	C5H10	70



Data File: /chem/VOAHS1.i/8260LOW_SP/10-20-00/30oct00.b/a10465.d

Date : 30-OCT-2000 12:38

Client ID: EB-6_Outfall

Instrument: VOAHS1.i

Sample Info: 237817;;;5.14;5

Operator: VOAHS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match

CAS Number

Library

Entry

Quality Formula

Weight

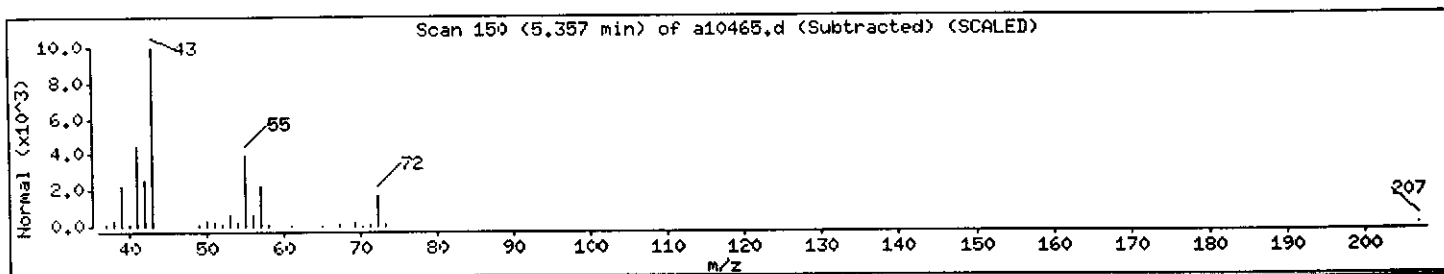
Unknown

Unknown

0

0

0



Data File: /chem/VOAMS1.1/8260LOW_SP/10-20-00/30oct00.b/a10465.d

Date : 30-OCT-2000 12:38

Client ID: EB-6_Outfall

Instrument: VOAMS1.1

Sample Info: 237817;;;5.14;5

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match

CAS Number

Library

Entry

Quality

Formula

Weight

2-Propanone

67-64-1

WILEY138.1

116053

72

C3H6O

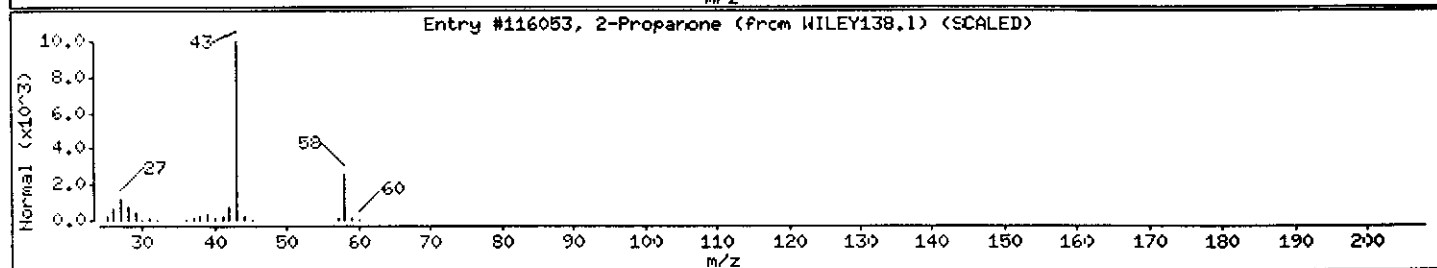
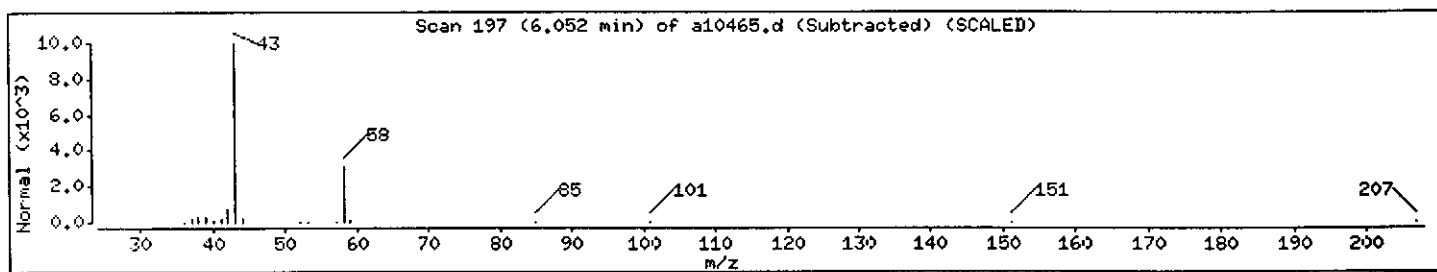
58

Unknown Ketone

0

0

0



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/30oct00.b/a10465.d

Date : 30-OCT-2000 12:38

Client ID: EB-6_Outfall

Instrument: VOAMS1.i

Sample Info: 237817;;;5.14;5

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.63

Library Search Compound Match

Unknown Alkane

Pyrrolidine

CAS Number

Library

Entry

Quality Formula

Weight

123-75-1

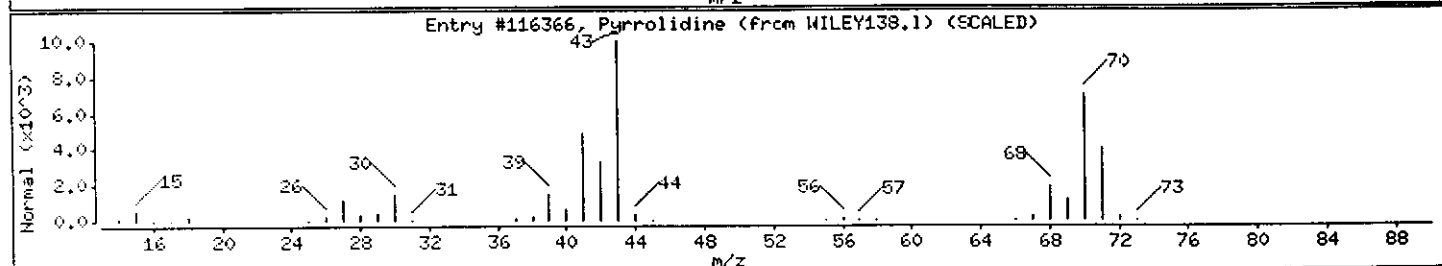
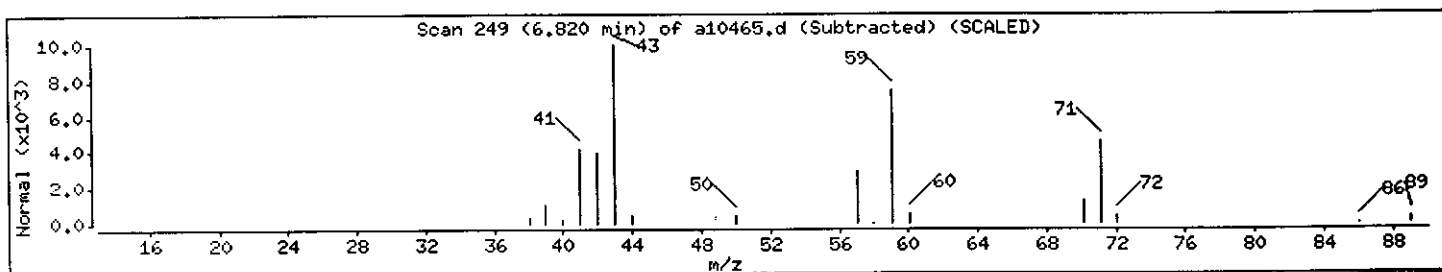
WILEY138.1

116366

38

C4H9N

71



Data File: /chem/VOAMS1.i/B260LOW_SP/19-20-00/30oct00.b/a10465.d

Date : 30-OCT-2000 12:38

Client ID: EB-6_Outfall

Instrument: VOAMS1.i

Sample Info: 237817;;;5.14;5

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match

2-Butanone

Unknown Ketone

CAS Number

Library

Entry

Quality

Formula

Weight

78-93-3

WILEY138.1

116393

64

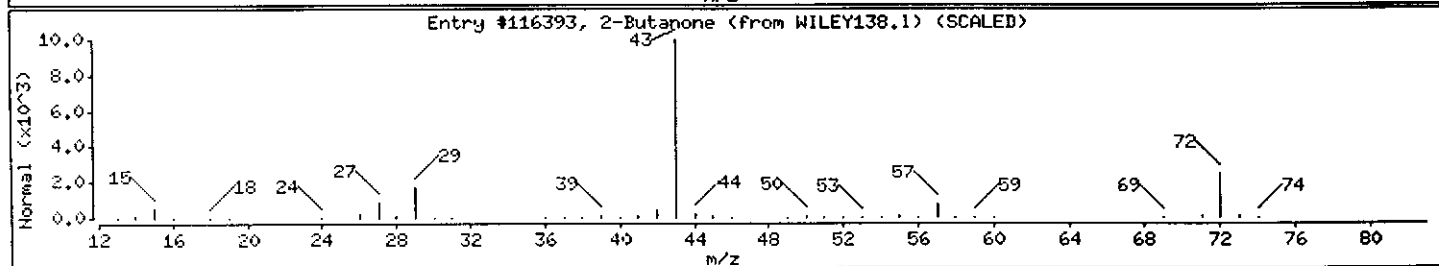
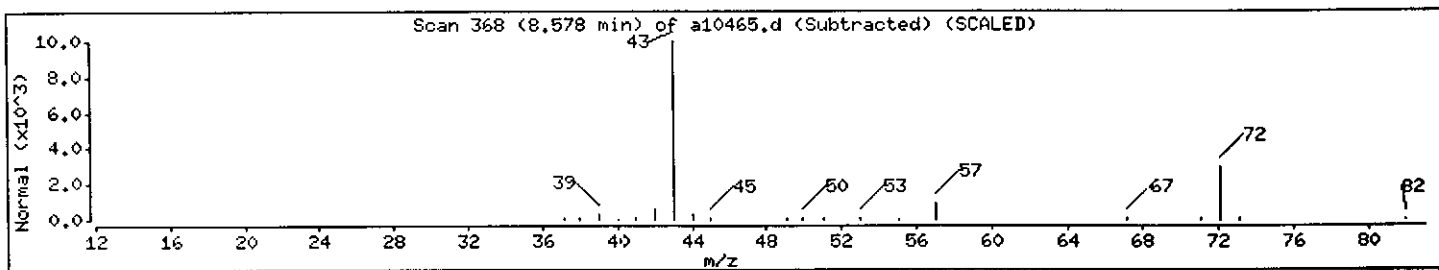
C4H8O

72

0

0

0



Client ID: TPE-1
Site: Rexam DSI

Lab Sample No: 237818
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Analyzed: 10/31/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10485.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.1 g
Purge Volume: 5.0 ml
% Moisture: 7

VOLATILE ORGANICS - GC/MS
METHOD 8260B

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Chloromethane	ND	5.3
Bromomethane	ND	5.3
Vinyl Chloride	ND	5.3
Chloroethane	ND	5.3
Methylene Chloride	ND	3.2
Trichlorofluoromethane	ND	5.3
1,1-Dichloroethene	ND	2.1
1,1-Dichloroethane	ND	5.3
trans-1,2-Dichloroethene	ND	5.3
cis-1,2-Dichloroethene	ND	5.3
Chloroform	ND	5.3
1,2-Dichloroethane	ND	2.1
1,1,1-Trichloroethane	ND	5.3
Carbon Tetrachloride	ND	2.1
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.3
Trichloroethene	ND	1.0
Dibromochloromethane	ND	5.3
1,1,2-Trichloroethane	ND	3.2
Benzene	4.1	1.0
trans-1,3-Dichloropropene	ND	5.3
2-Chloroethyl Vinyl Ether	ND	5.3
Bromoform	ND	4.2
Tetrachloroethene	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	4.6J	5.3
Chlorobenzene	ND	5.3
Ethylbenzene	0.5J	4.2
Xylene (Total)	1.3J	5.3

Client ID: TPE-1
Site: Rexam DSI

Lab Sample No: 237818
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Analyzed: 10/31/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10485.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.1 g
Purge Volume: 5.0 ml
% Moisture: 6.9

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. Unknown	3.95	14	
2. Hexanal	12.95	11	
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

25

Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/30oct00a.b/a10485.d
Report Date: 31-Oct-2000 15:10

STL Envirotech

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS1.i/8260LOW_SP/10-20-00/30oct00a.b/a10485.d
Lab Smp Id: 237818 Client Smp ID: TPE-1
Inj Date : 31-OCT-2000 00:40
Operator : VOAMS 8 Inst ID: VOAMS1.i
Smp Info : 237818;;;5.07;5
Misc Info : F104;1914;AT
Comment :
Method : /chem/VOAMS1.i/8260LOW_SP/10-20-00/30oct00a.b/8260L_00.m
Meth Date : 31-Oct-2000 09:03 ken Quant Type: ISTD
Cal Date : 20-OCT-2000 18:54 Cal File: a10343.d
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPVOA.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	5.00000	Volume of final extract (mL)
Ws	5.07000	Weight of sample extracted (g)
M	6.90000	% Moisture (not decanted)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/L)	FINAL (ug/Kg)
\$ 16 1,2-Dichloroethane-d4 (SUR)	65	9.686	9.670	(0.956)	1161398	47.8266	51	
28 Benzene	78	9.819	9.789	(0.969)	258816	3.84950	4.1	
* 19 Fluorobenzene	96	10.130	10.128	(1.000)	4072571	50.0000		
\$ 37 Toluene-d8 (SUR)	98	12.065	12.064	(0.877)	2764724	52.9664	56	
38 Toluene	91	12.168	12.138	(0.884)	267472	4.29600	4.6(a)	
* 32 Chlorobenzene-d5	117	13.764	13.748	(1.000)	2692595	50.0000		
40 Ethylbenzene	106	13.897	13.881	(1.010)	12124	0.51245	0.54(a)	
M 45 Xylene (Total)	100				34344	1.21142	1.3(a)	
\$ 41 Bromofluorobenzene (SUR)	174	15.049	15.033	(0.924)	1409594	62.0300	66	
* 91 1,4-Dichlorobenzene-d4	152	16.290	16.289	(1.000)	1031358	50.0000		
43 m+p-Xylene	106	14.015	13.999	(1.018)	34344	1.19788	1.3(a)	

Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/30oct00a.b/a10485.d
Report Date: 31-Oct-2000 15:10

QC Flag Legend

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

Data File: /chem/VOAHS1.i/8260LDM_SP/10-20-00/30oct00a.b/a10485.d

Date: 31-OCT-2000 00:40

Client ID: TPE-1

Sample Info: 237818;;5.07;5

Column phase: DB624

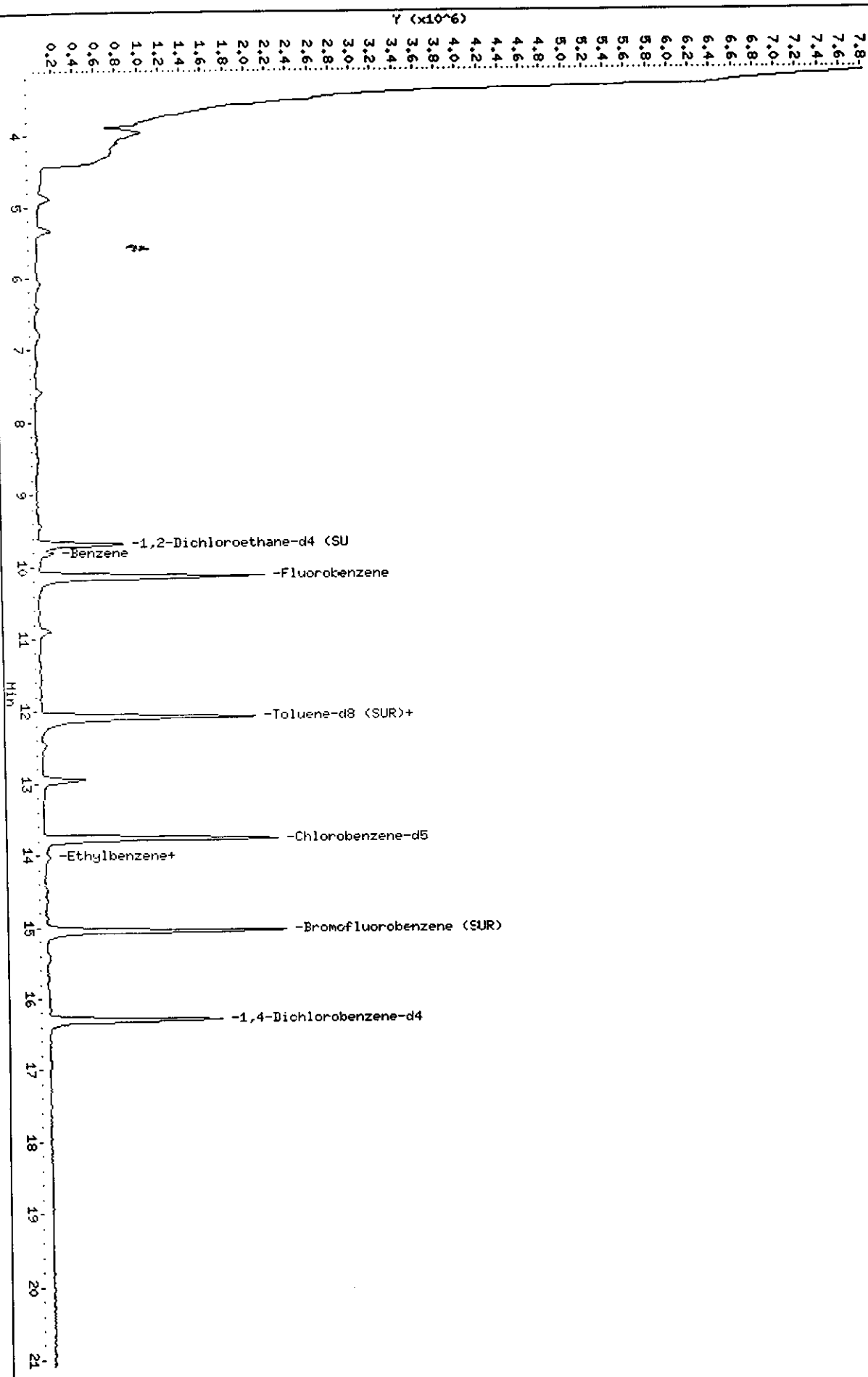
Instrument: VOAHS1.i

Operator: VOAHS 8

Column diameter: 0.53

KLB

/chem/VOAHS1.i/8260LDM_SP/10-20-00/30oct00a.b/a10485.d



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/30oct00a.b/a10485.d

Date : 31-OCT-2000 00:40

Client ID: TPE-1

Sample Info: 237818;;;5.07;5

Instrument: VOAMS1.i

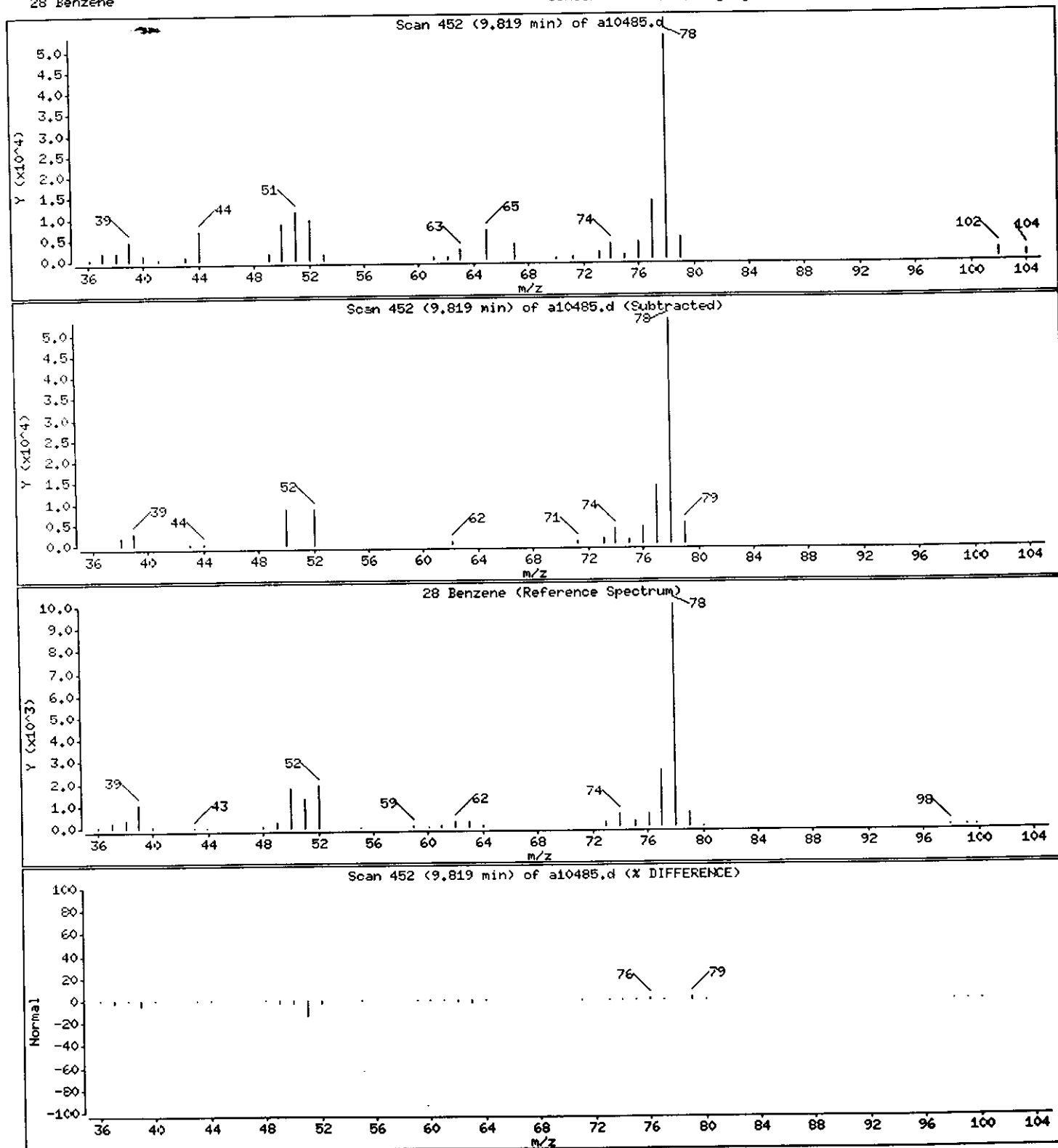
Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

28 Benzene

Concentration: 4.1 ug/Kg



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/30oct00a.b/a10485.d

Date : 31-OCT-2000 00:40

Client ID: TPE-1

Instrument: VOAMS1.i

Sample Info: 237818;;;5.07;5

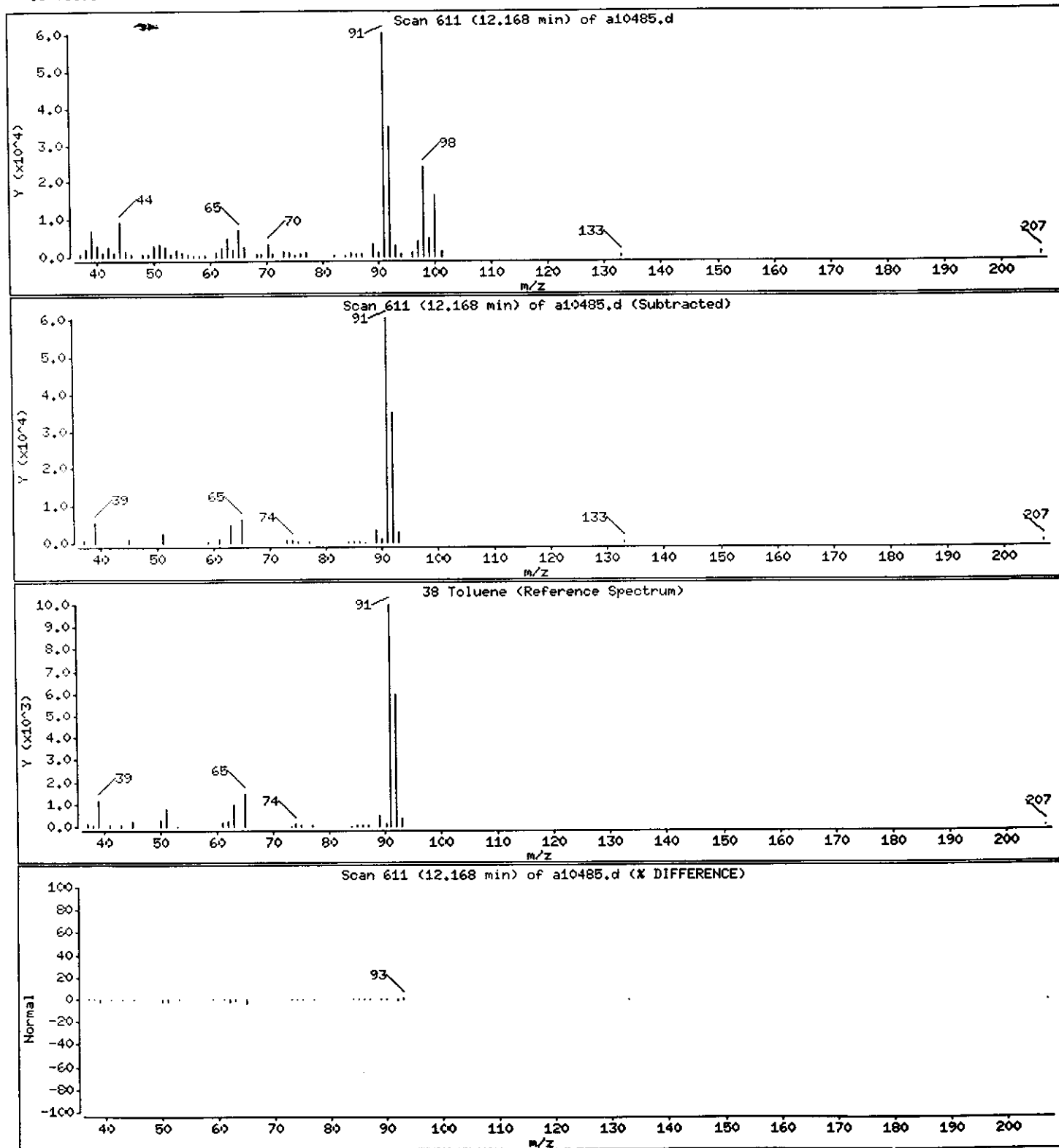
Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

38 Toluene

Concentration: 4.6 ug/Kg



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/30oct00a.b/a10485.d

Date : 31-OCT-2000 00:40

Client ID: TPE-1

Instrument: VOAMS1.i

Sample Info: 237818;;;5.07;5

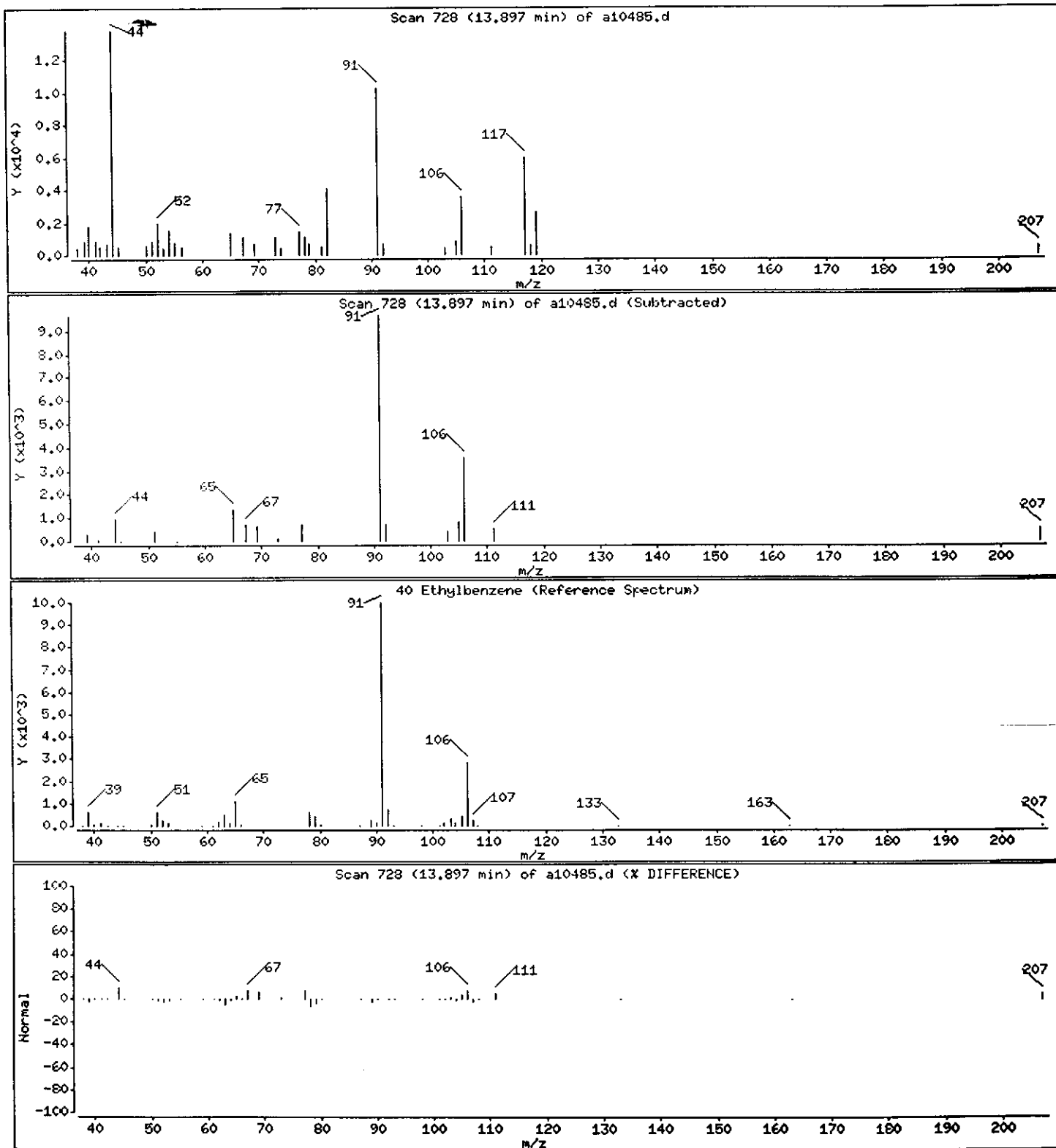
Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

40 Ethylbenzene

Concentration: 0.54 ug/Kg



Data File: /chem/VOAMS1.i/8260LON_SP/10-20-00/30oct00a,b/a10485.d

Date : 31-OCT-2000 00:40

Client ID: TPE-1

Sample Info: 237818;;;5.07;5

Instrument: VOAMS1.i

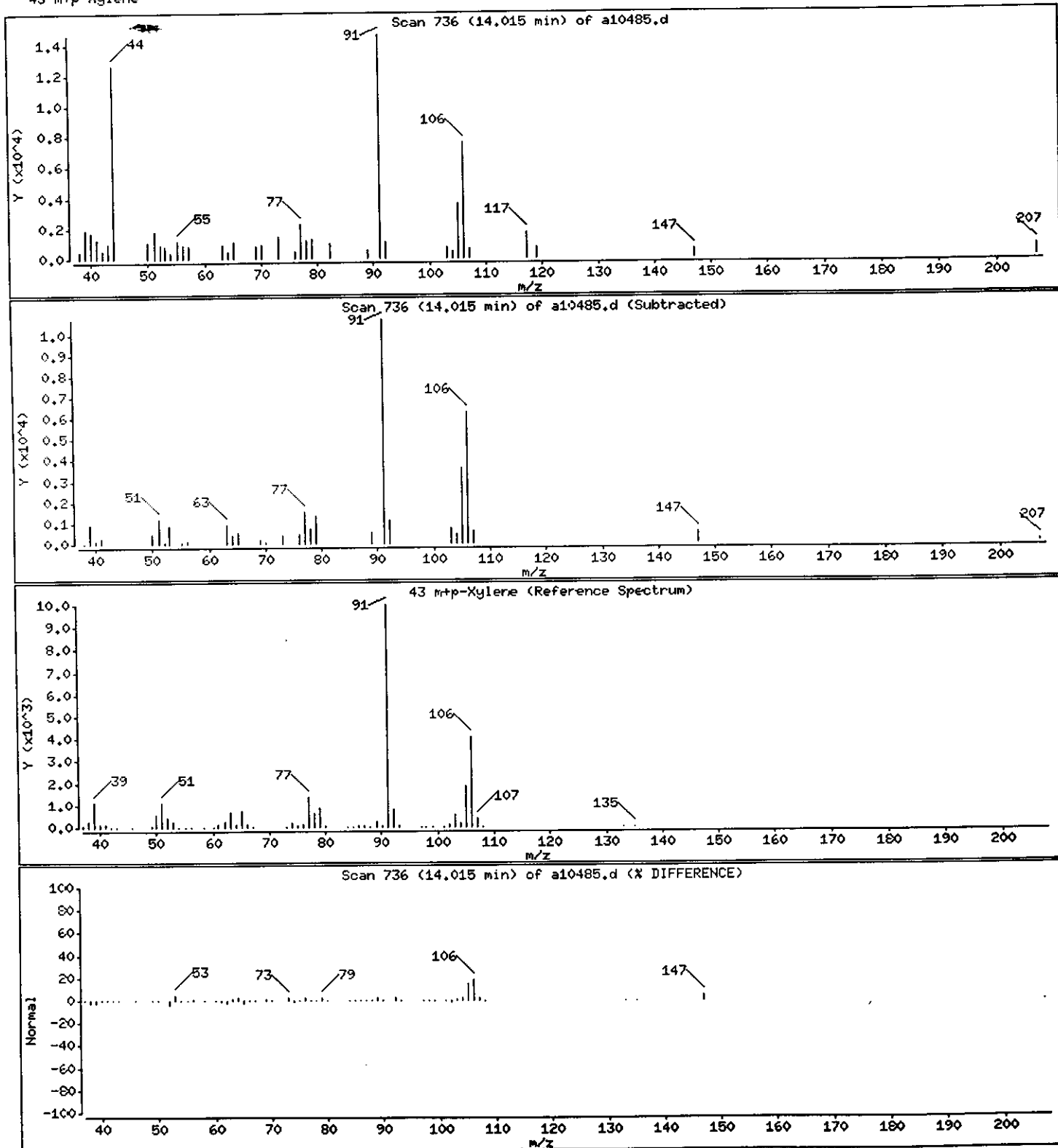
Operator: VOAMS 8

Column diameter: 0.53

Column phase: DB624

Concentration: 1.3 ug/Kg

43 m+p-Xylene



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/30oct00a,b/a10485.d

Date : 31-OCT-2000 00:40

Client ID: TPE-1

Instrument: VOAMS1.i

Sample Info: 237818;;;5.07;5

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match

CAS Number

Library

Entry

Quality

Formula

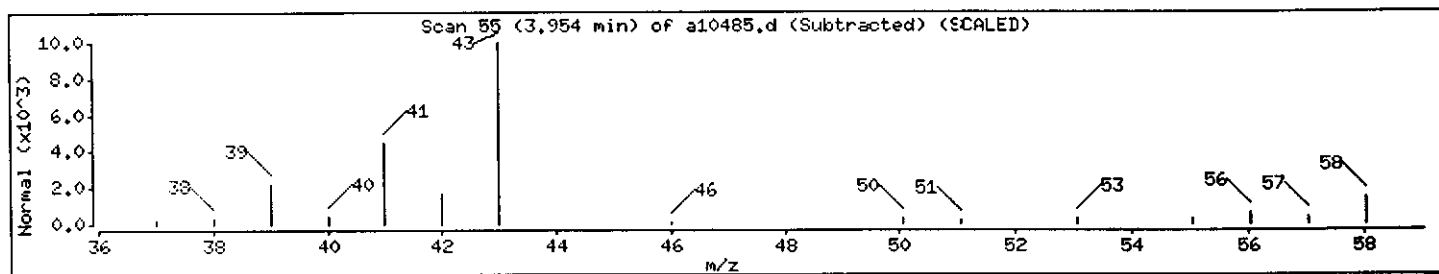
Weight

Unknown

0

0

0



Data File: /chem/VOAMS1.1/8260LOW_SP/19-20-00/30oct00a,b/a10485.d

Date : 31-OCT-2000 00:40

Client ID: TPE-1

Instrument: VOAMS1.1

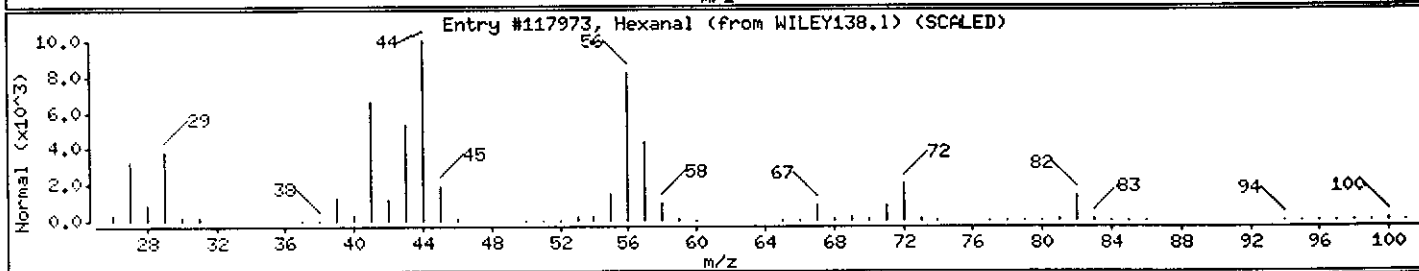
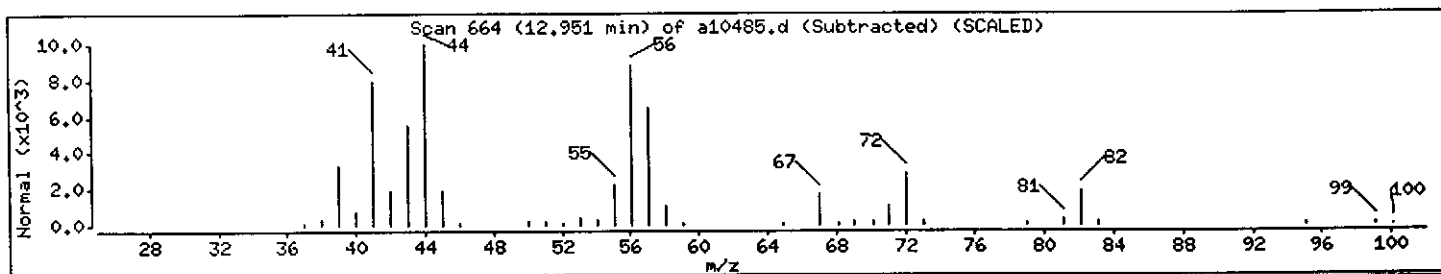
Sample Info: 237818;;;5.07;5

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Hexanal	66-25-1	WILEY138.1	117973	90	C ₆ H ₁₂ O	100



Client ID: TPE-2
Site: Rexam DSI

Lab Sample No: 237819
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Analyzed: 10/30/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10467.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.1 g
Purge Volume: 5.0 ml
% Moisture: 28

VOLATILE ORGANICS - GC/MS
METHOD 8260B

<u>Parameter</u>	<u>Analytical Results</u>	
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/kg</u>
Chloromethane	ND	6.7
Bromomethane	ND	6.7
Vinyl Chloride	ND	6.7
Chloroethane	ND	6.7
Methylene Chloride	ND	4.0
Trichlorofluoromethane	1.1J	6.7
1,1-Dichloroethene	ND	2.7
1,1-Dichloroethane	ND	6.7
trans-1,2-Dichloroethene	ND	6.7
cis-1,2-Dichloroethene	ND	6.7
Chloroform	ND	6.7
1,2-Dichloroethane	ND	2.7
1,1,1-Trichloroethane	ND	6.7
Carbon Tetrachloride	ND	2.7
Bromodichloromethane	ND	1.3
1,2-Dichloropropane	ND	1.3
cis-1,3-Dichloropropene	ND	6.7
Trichloroethene	ND	1.3
Dibromochloromethane	ND	6.7
1,1,2-Trichloroethane	ND	4.0
Benzene	ND	1.3
trans-1,3-Dichloropropene	ND	6.7
2-Chloroethyl Vinyl Ether	ND	6.7
Bromoform	ND	5.4
Tetrachloroethene	ND	1.3
1,1,2,2-Tetrachloroethane	ND	1.3
Toluene	1.3J	6.7
Chlorobenzene	ND	6.7
Ethylbenzene	ND	5.4
Xylene (Total)	ND	6.7

Client ID: TPE-2
Site: Rexam DSI

Lab Sample No: 237819
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Analyzed: 10/30/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10467.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.1 g
Purge Volume: 5.0 ml
% Moisture: 27.7

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/30oct00.b/a10467.d
Report Date: 31-Oct-2000 15:09

STL Envirotech

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS1.i/8260LOW_SP/10-20-00/30oct00.b/a10467.d
Lab Smp ID: 237819 Client Smp ID: TPE-2
Inj Date : 30-OCT-2000 13:40
Operator : VOAMS 8 Inst ID: VOAMS1.i
Smp Info : 237819;;;5.14;5
Misc Info : F104;1914;AT
Comment :
Method : /chem/VOAMS1.i/8260LOW_SP/10-20-00/30oct00.b/8260L_00.m
Meth Date : 30-Oct-2000 08:34 audberto Quant Type: ISTD
Cal Date : 20-OCT-2000 18:54 Cal File: a10343.d
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 3.50

KUB

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	5.00000	Volume of final extract (mL)
Ws	5.14000	Weight of sample extracted (g)
M	27.70000	% Moisture (not decanted)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/Kg)
9 Trichlorofluoromethane	101	5.242	5.194	(0.516)	32415	0.84537	1.1(a)
\$ 16 1,2-Dichloroethane-d4 (SUR)	65	9.704	9.671	(0.955)	1113169	64.9680	87
* 19 Fluorobenzene	96	10.162	10.129	(1.000)	2873549	50.0000	
\$ 37 Toluene-d8 (SUR)	98	12.097	12.064	(0.878)	2010236	80.4296	110(R)
38 Toluene	91	12.186	12.153	(0.884)	29241	0.98084	1.3(a)
* 32 Chlorobenzene-d5	117	13.781	13.763	(1.000)	1289291	50.0000	
\$ 41 Bromofluorobenzene (SUR)	174	15.066	15.048	(0.923)	489151	84.7259	110(R)
* 91 1,4-Dichlorobenzene-d4	152	16.322	16.289	(1.000)	262026	50.0000	

QC Flag Legend

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

Data File: /chem/VOAHS1.i/8260LOW.SP/10-20-00/30oct00.b/a10467.d

Date: 30-OCT-2000 13:40

Client ID: TPE-2

Sample Info: 237819;;5.14;5

Column phase: DB624

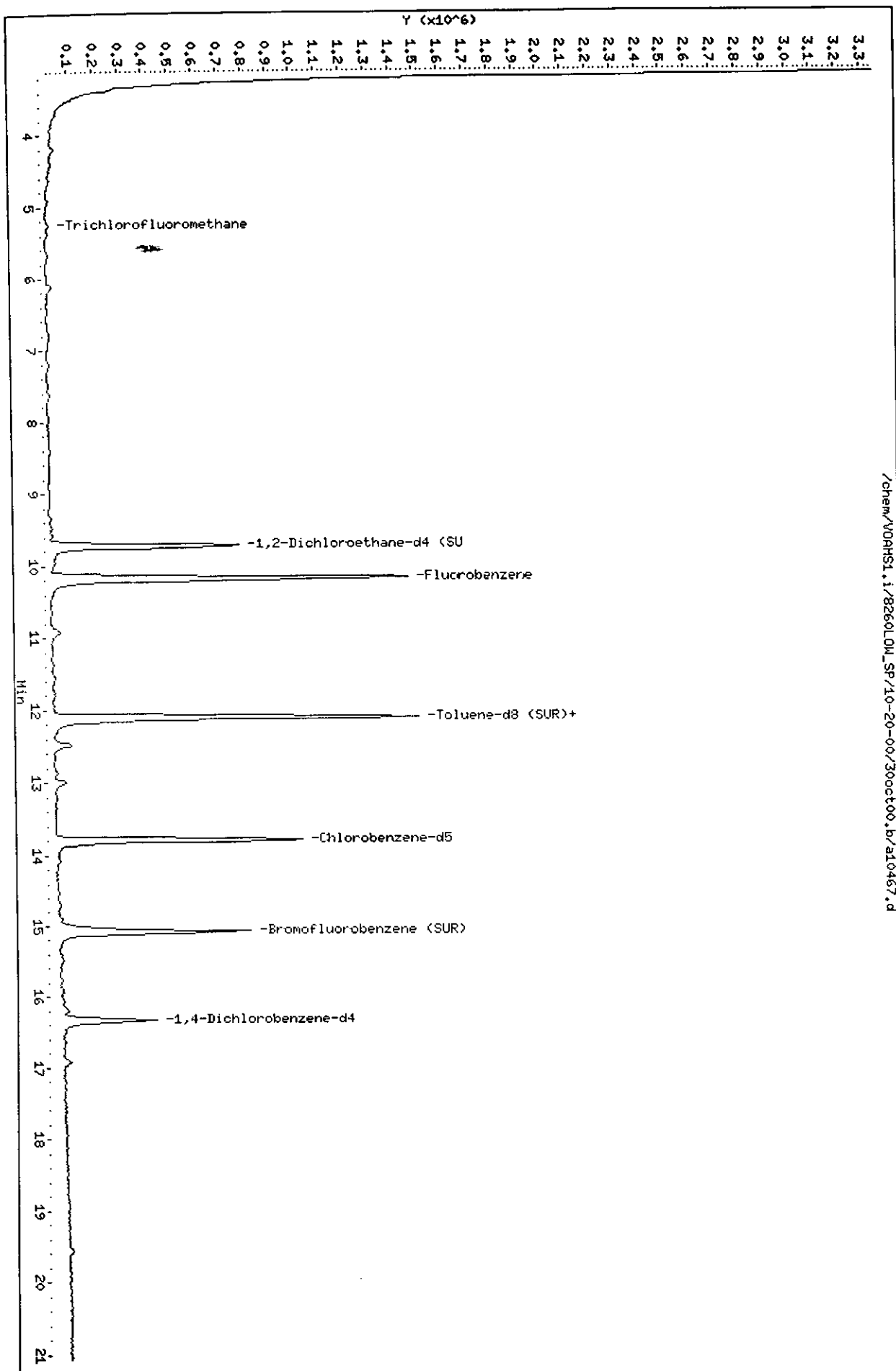
Instrument: VOAHS1.i

Operator: VOAHS 8

Column diameter: 0.53

KUB

/chem/VOAHS1.i/8260LOW.SP/10-20-00/30oct00.b/a10467.d



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/30oct00.b/a10467.d

Date : 30-OCT-2000 13:40

Client ID: TPE-2

Instrument: VOAMS1.i

Sample Info: 237819;;;5.14;5

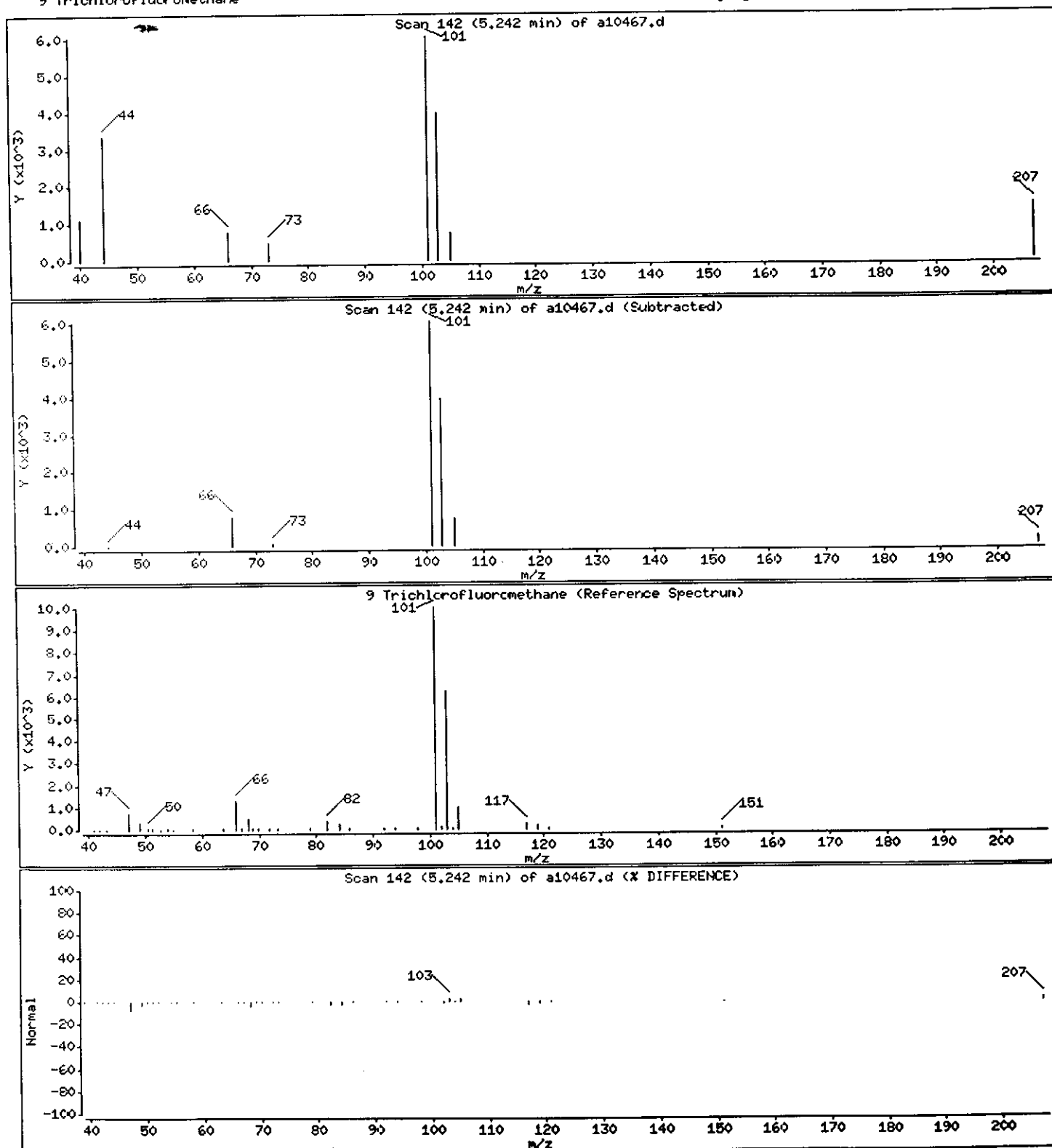
Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

9 Trichlorofluoromethane

Concentration: 1.1 ug/Kg



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/30oct00.b/a10467.d

Date : 30-OCT-2000 13:40

Client ID: TPE-2

Sample Info: 237819;;;5.14;5

Instrument: VOAMS1.i

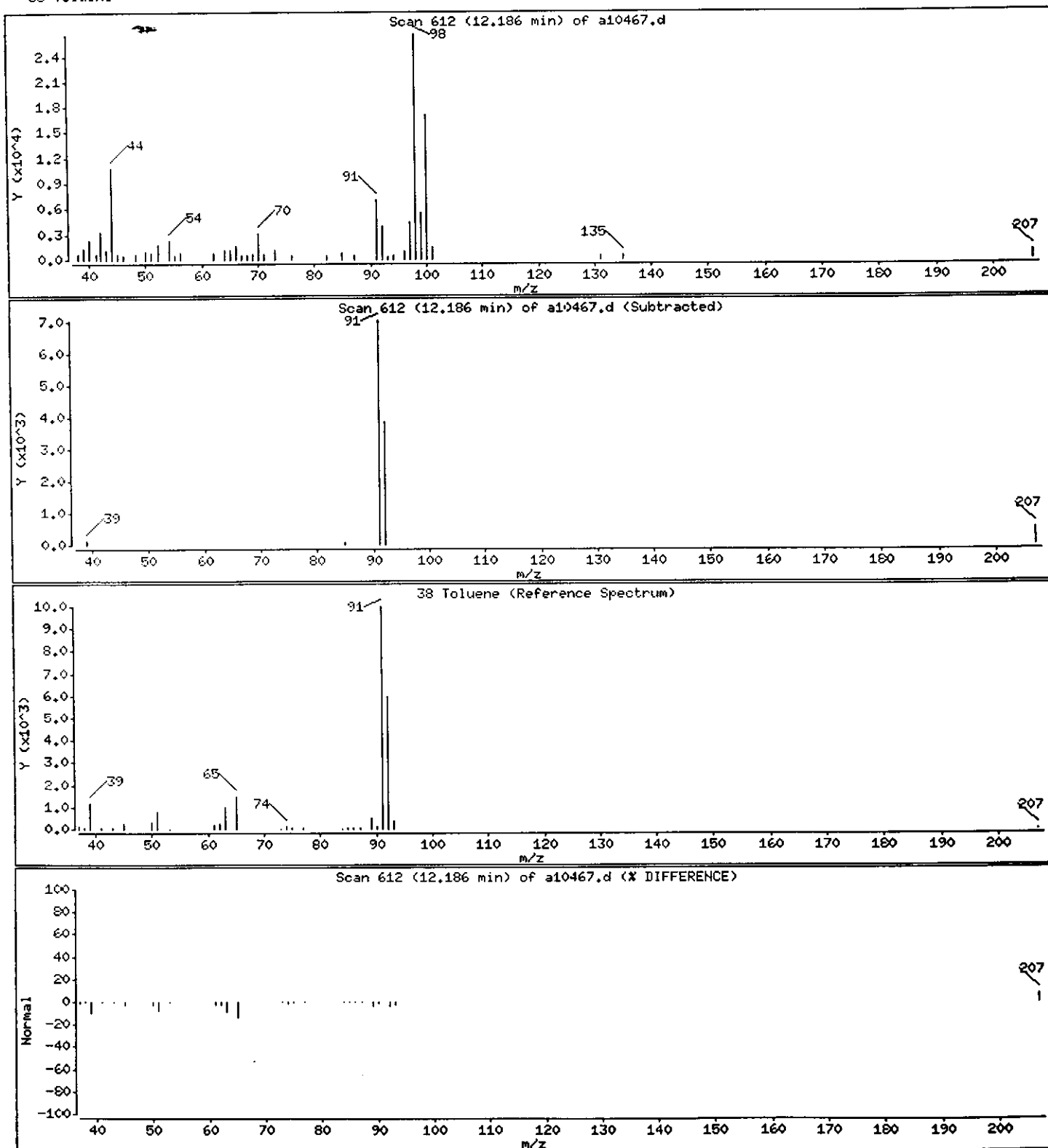
Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

38 Toluene

Concentration: 1.3 ug/Kg



Client ID: TPE-3
Site: Rexam DSI

Lab Sample No: 237820
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Analyzed: 10/30/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10468.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.6 g
Purge Volume: 5.0 ml
% Moisture: 4

VOLATILE ORGANICS - GC/MS
METHOD 8260B

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Chloromethane	ND	4.7
Bromomethane	ND	4.7
Vinyl Chloride	ND	4.7
Chloroethane	ND	4.7
Methylene Chloride	ND	2.8
Trichlorofluoromethane	ND	4.7
1,1-Dichloroethene	ND	1.9
1,1-Dichloroethane	ND	4.7
trans-1,2-Dichloroethene	ND	4.7
cis-1,2-Dichloroethene	ND	4.7
Chloroform	ND	4.7
1,2-Dichloroethane	ND	1.9
1,1,1-Trichloroethane	ND	4.7
Carbon Tetrachloride	ND	1.9
Bromodichloromethane	ND	0.9
1,2-Dichloropropane	ND	0.9
cis-1,3-Dichloropropene	ND	4.7
Trichloroethene	ND	0.9
Dibromochloromethane	ND	4.7
1,1,2-Trichloroethane	ND	2.8
Benzene	0.6J	0.9
trans-1,3-Dichloropropene	ND	4.7
2-Chloroethyl Vinyl Ether	ND	4.7
Bromoform	ND	3.7
Tetrachloroethene	ND	0.9
1,1,2,2-Tetrachloroethane	ND	0.9
Toluene	1.3J	4.7
Chlorobenzene	ND	4.7
Ethylbenzene	ND	3.7
Xylene (Total)	0.6J	4.7

Client ID: TPE-3
Site: Rexam DSI

Lab Sample No: 237820
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Analyzed: 10/30/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10468.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.6 g
Purge Volume: 5.0 ml
% Moisture: 4.2

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
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23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/30oct00.b/a10468.d
Report Date: 31-Oct-2000 15:09

STL Envirotech

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS1.i/8260LOW_SP/10-20-00/30oct00.b/a10468.d
Lab Smp ID: 237820 Client Smp ID: TPE-3
Inj Date : 30-OCT-2000 14:12
Operator : VOAMS 8 Inst ID: VOAMS1.i
Smp Info : 237820;;;5.59;5
Misc Info : F104;1914;AT
Comment :
Method : /chem/VOAMS1.i/8260LOW_SP/10-20-00/30oct00.b/8260L_00.m
Meth Date : 30-Oct-2000 08:34 audberto Quant Type: ISTD
Cal Date : 20-OCT-2000 18:54 Cal File: a10343.d
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPVOA.sub
Target Version: 3.50

Concentration Formula: $\text{Amt} * \text{DF} * ((\text{Vt}/\text{Ws}) / ((100-\text{M})/100)) * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	5.00000	Volume of final extract (mL)
Ws	5.59000	Weight of sample extracted (g)
M	4.20000	% Moisture (not decanted)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS						
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/Kg)
\$ 16 1,2-Dichloroethane-d4 (SUR)	65		9.686	9.671	(0.956)	1637354	50.6332	47
28 Benzene	78		9.834	9.789	(0.971)	58629	0.65483	0.61(a)
* 19 Fluorobenzene	96		10.129	10.129	(1.000)	5423306	50.0000	
\$ 37 Toluene-d8 (SUR)	98		12.064	12.064	(0.877)	3880502	53.1301	50
38 Toluene	91		12.168	12.153	(0.884)	117716	1.35122	1.3(a)
* 32 Chlorobenzene-d5	117		13.763	13.763	(1.000)	3767623	50.0000	
M 45 Xylene (Total)	100					26258	0.66192	0.62(a)
\$ 41 Bromofluorobenzene (SUR)	174		15.034	15.048	(0.923)	2289981	57.3479	54
* 91 1,4-Dichlorobenzene-d4	152		16.290	16.289	(1.000)	1812308	50.0000	
43 m+p-Xylene	106		14.029	13.999	(1.019)	26258	0.65453	0.61(a)

QC Flag Legend

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

Data File: /chem/V04H51.1/8260L0M_SP/10-20-00/30oct00.b/a10468.d

Date: 30-OCT-2000 14:12

Client ID: TPE-3

Sample Info: 237820;;5.59;5

Column phase: DB624

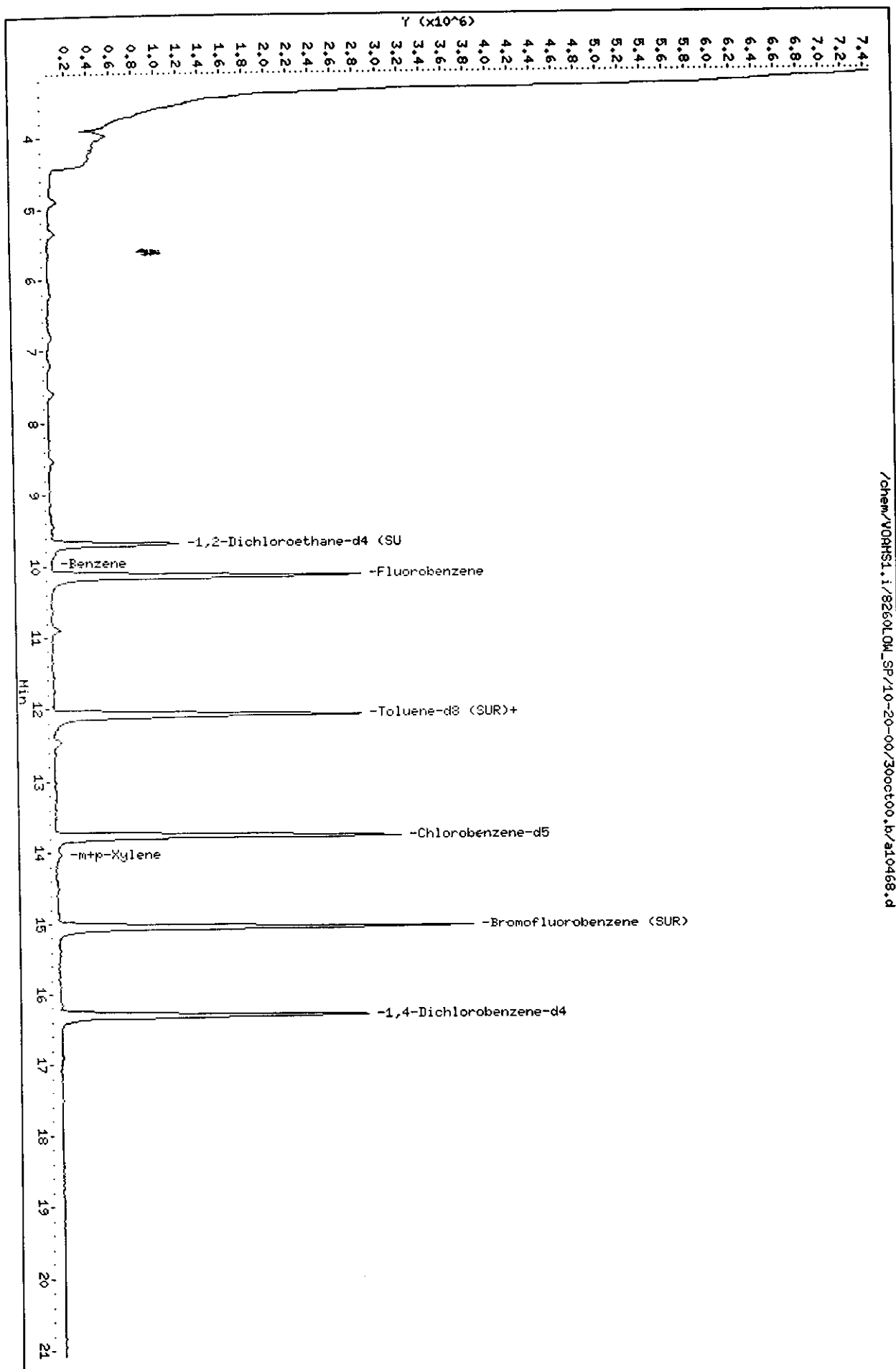
Instrument: V04H51.1

Operator: V04H5 8

Column diameter: 0.53

K10

/chem/V04H51.1/8260L0M_SP/10-20-00/30oct00.b/a10468.d



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/30oct00.b/a10468.d

Date : 30-OCT-2000 14:12

Client ID: TPE-3

Sample Info: 237820;;;5.59;5

Instrument: VOAMS1.i

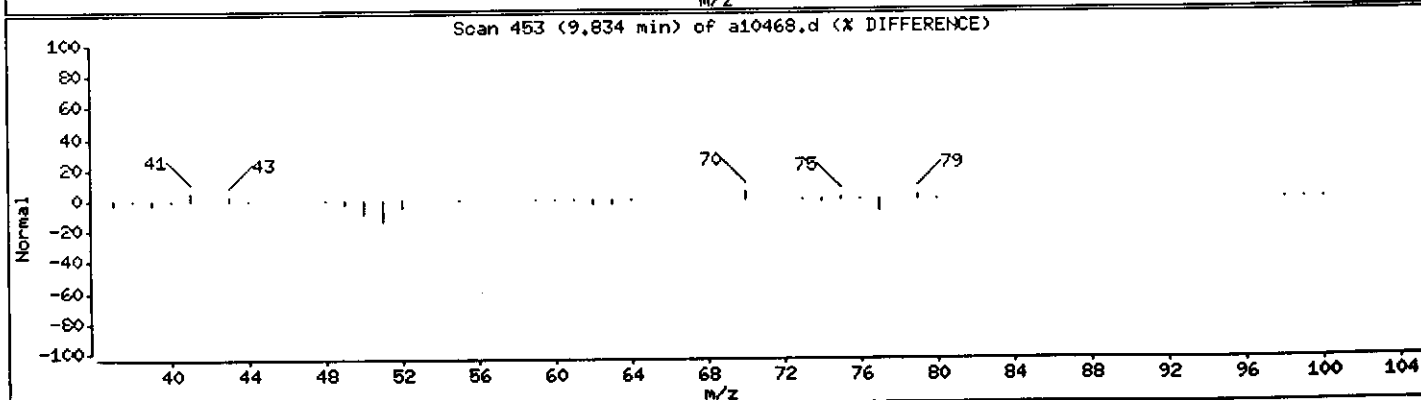
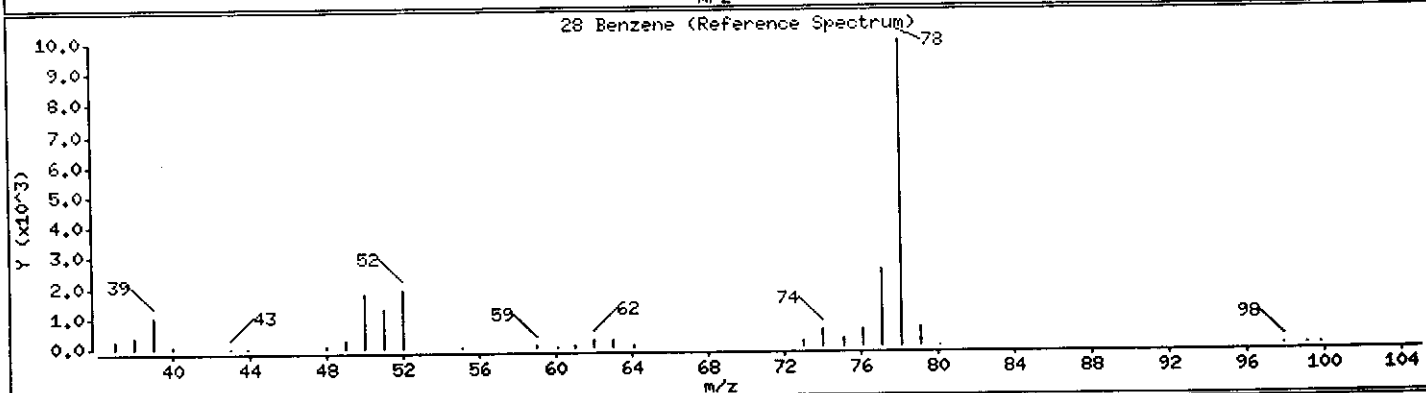
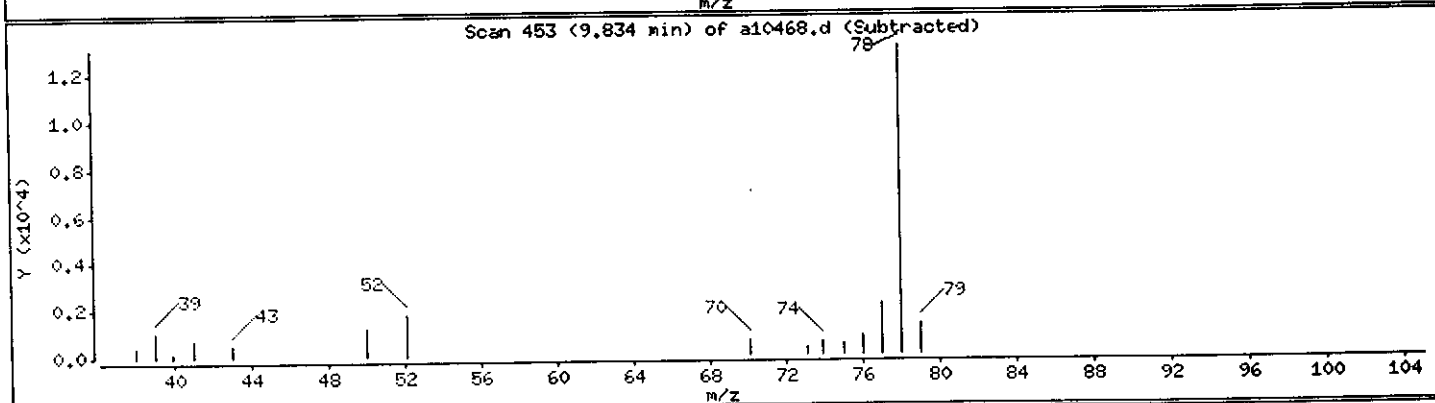
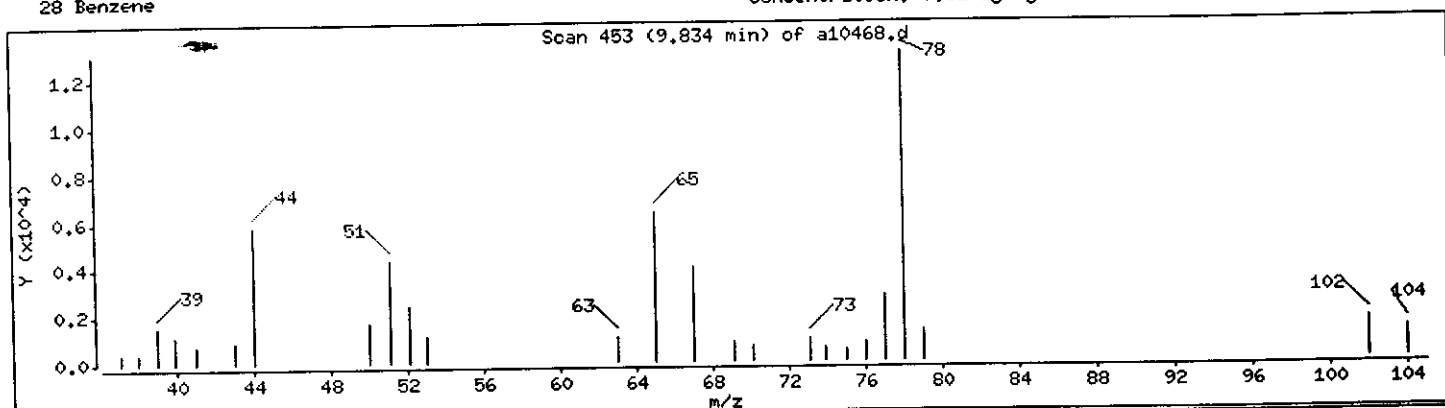
Operator: VOAMS 8

Column diameter: 0.53

Column phase: DB624

Concentration: 0.61 ug/Kg

28 Benzene



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/30oct00,b/a10468.d

Date : 30-OCT-2000 14:12

Client ID: TPE-3

Instrument: VOAMS1.i

Sample Info: 237820;;;5.59;5

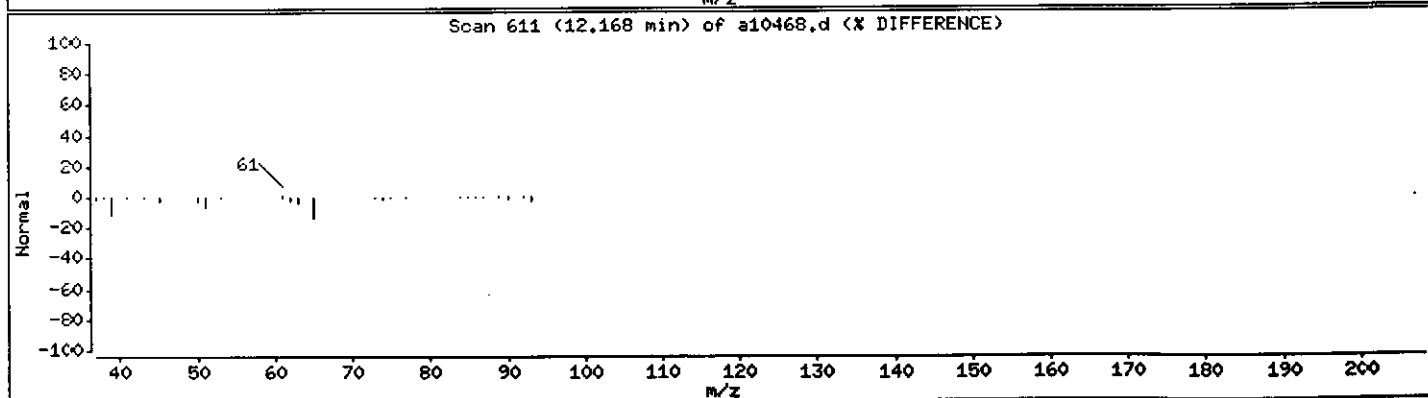
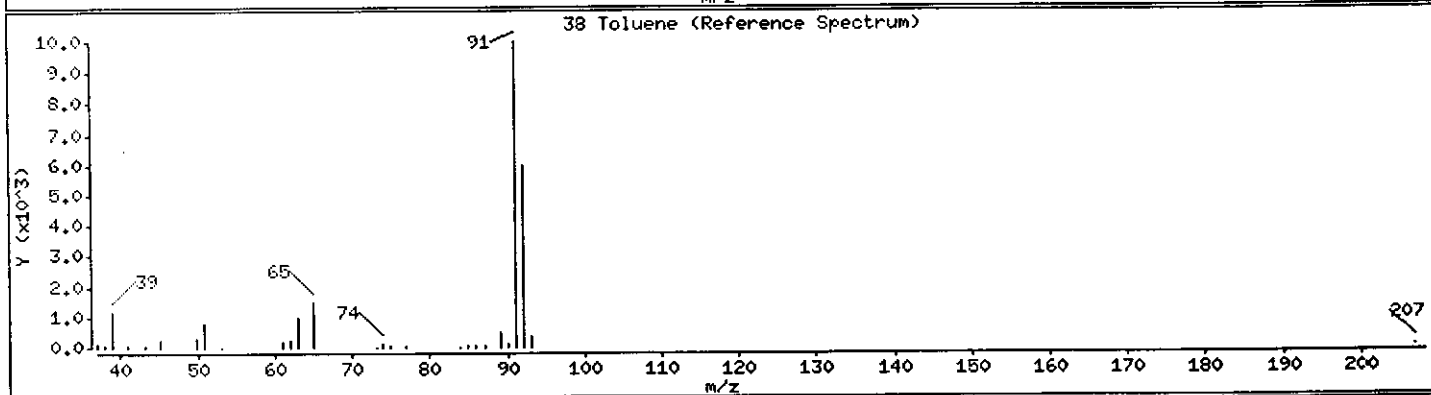
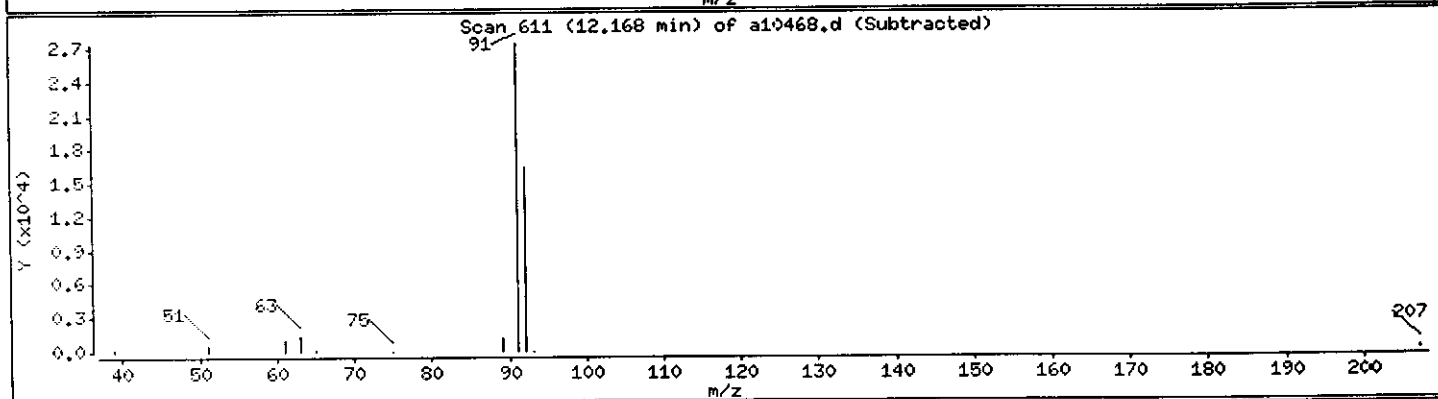
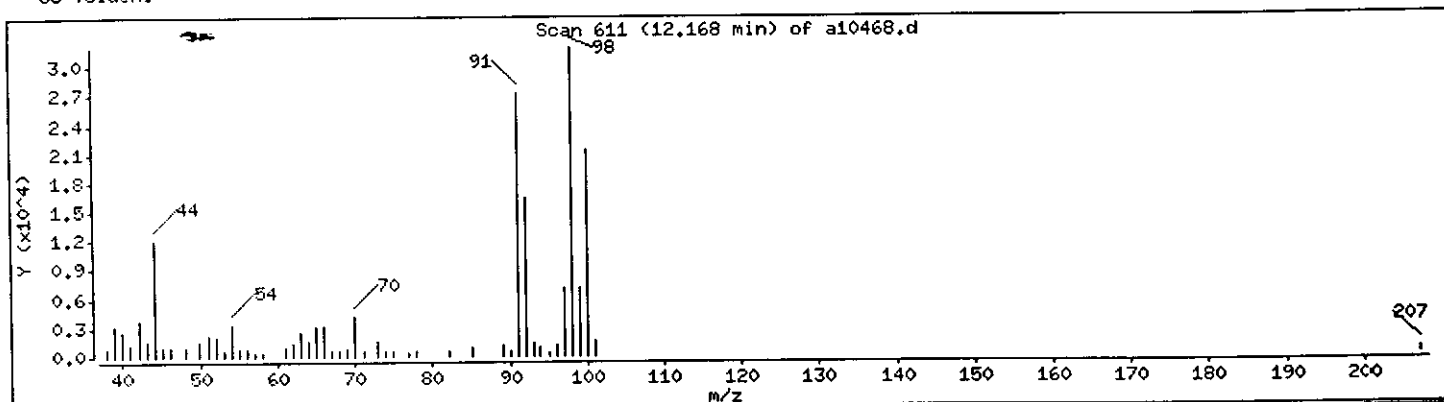
Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

38 Toluene

Concentration: 1.3 ug/Kg



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/30oct00.b/a10468.d

Date : 30-OCT-2000 14:12

Client ID: TPE-3

Instrument: VOAMS1.i

Sample Info: 237820;;;5.59;5

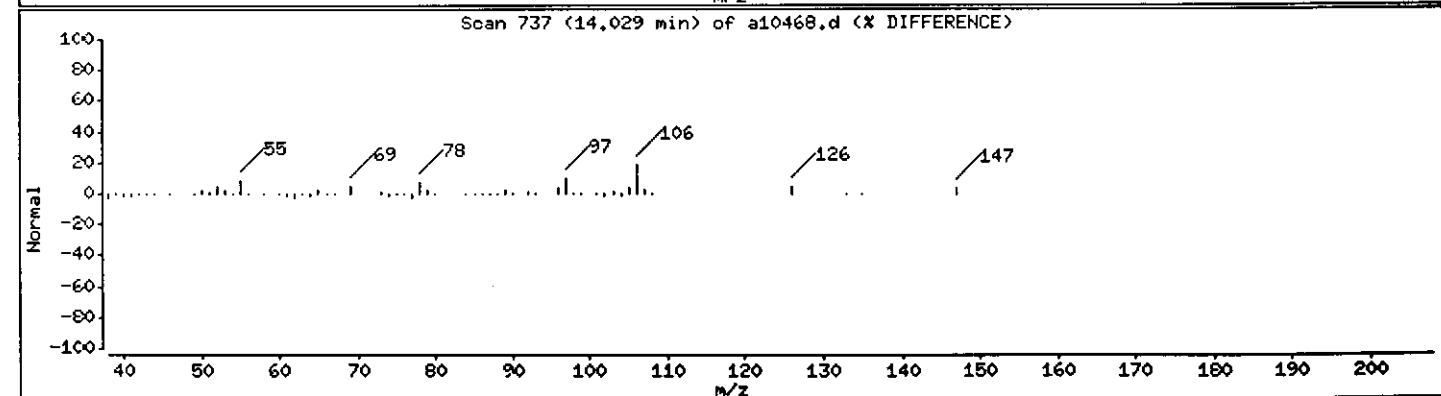
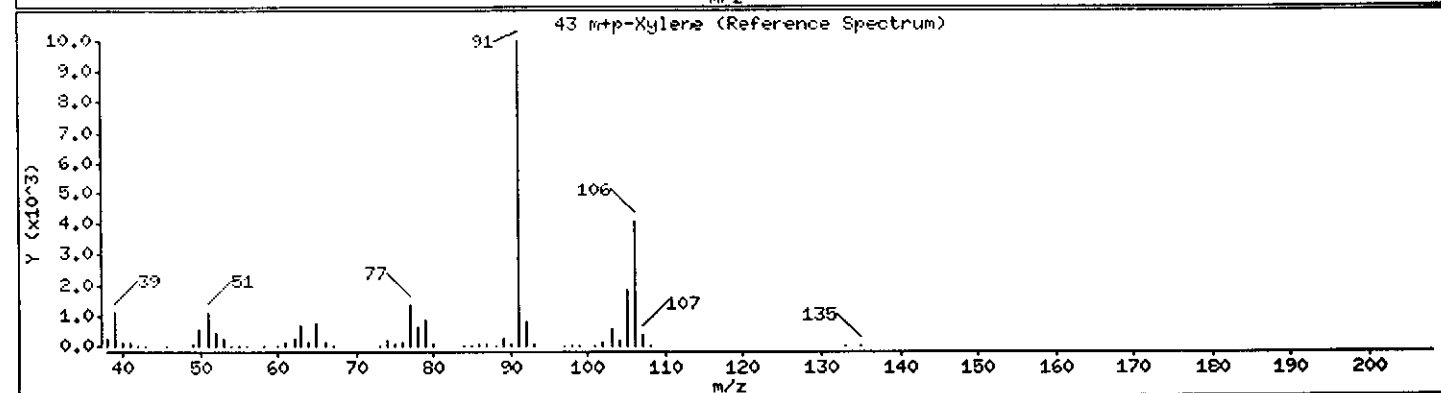
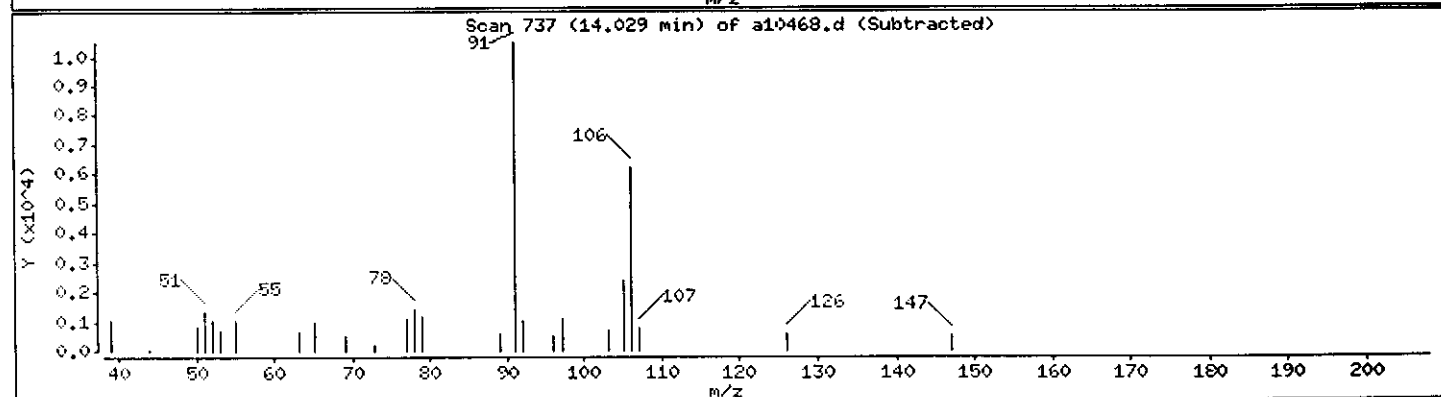
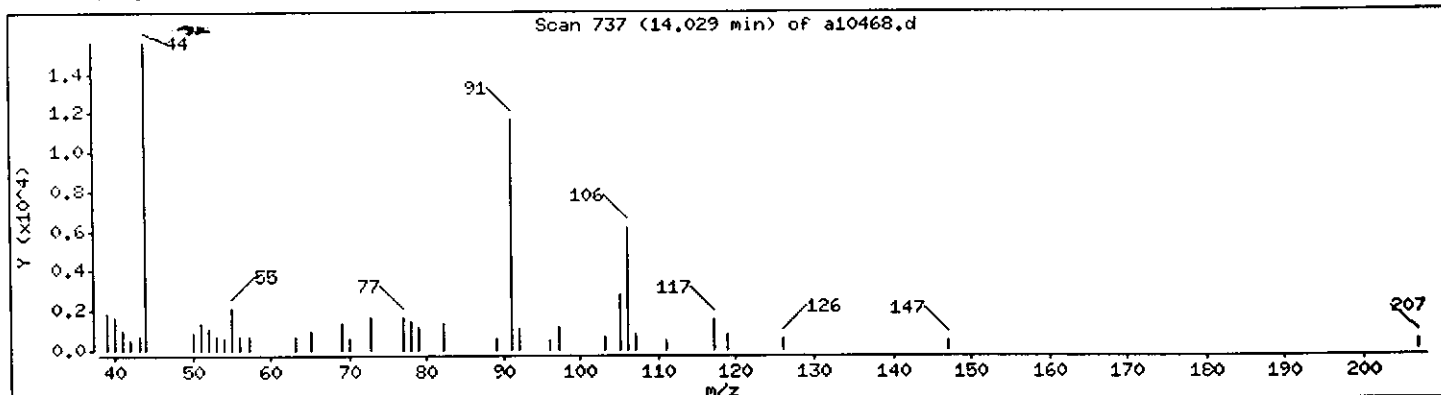
Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

43 m+p-Xylene

Concentration: 0.61 ug/Kg



Client ID: MW-1
Site: Rexam DSI

Lab Sample No: 237821
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Analyzed: 10/30/00
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v22790.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 624

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u> <u>Limit</u> <u>Units: ug/l</u>
Chloromethane	ND	0.5
Bromomethane	ND	0.3
Vinyl Chloride	ND	0.6
Chloroethane	ND	0.4
Methylene Chloride	ND	0.8
Trichlorofluoromethane	ND	0.3
1,1-Dichloroethene	ND	0.4
1,1-Dichloroethane	ND	0.4
trans-1,2-Dichloroethene	ND	0.4
cis-1,2-Dichloroethene	ND	0.4
Chloroform	ND	0.2
1,2-Dichloroethane	ND	0.2
1,1,1-Trichloroethane	ND	0.3
Carbon Tetrachloride	ND	0.4
Bromodichloromethane	ND	0.2
1,2-Dichloropropane	ND	0.2
cis-1,3-Dichloropropene	ND	0.1
Trichloroethene	ND	0.4
Dibromochloromethane	ND	0.2
1,1,2-Trichloroethane	ND	0.3
Benzene	ND	0.3
trans-1,3-Dichloropropene	ND	0.3
2-Chloroethyl Vinyl Ether	ND	0.5
Bromoform	ND	0.1
Tetrachloroethene	ND	0.3
1,1,2,2-Tetrachloroethane	ND	0.1
Toluene	ND	0.3
Chlorobenzene	ND	0.2
Ethylbenzene	ND	0.3
Xylene (Total)	ND	0.3

Client ID: MW-1
Site: Rexam DSI

Lab Sample No: 237821
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Analyzed: 10/30/00
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v22790.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 624

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
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17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

Data File: /chem/VOAMS7.i/624/10-24-00/30oct00.b/v22790.d
Report Date: 31-Oct-2000 09:50

STL Envirotech

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS7.i/624/10-24-00/30oct00.b/v22790.d
Lab Smp Id: 237821 Client Smp ID: MW-1
Inj Date : 30-OCT-2000 21:59
Operator : VOAMS 6 Inst ID: VOAMS7.i
Smp Info : 237821
Misc Info : F104;3599;;MR
Comment :
Method : /chem/VOAMS7.i/624/10-24-00/30oct00.b/624_00.m
Meth Date : 30-Oct-2000 11:07 riaz Quant Type: ISTD
Cal Date : 24-OCT-2000 16:39 Cal File: v22496.d
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 3.50
Compound Sublist: PPVOAv.sub

Concentration Formula: $\text{Amt} * \text{DF} * 5/\text{Vo} * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	5.00000	Sample Volume

Cpnd Variable Local Compound Variable

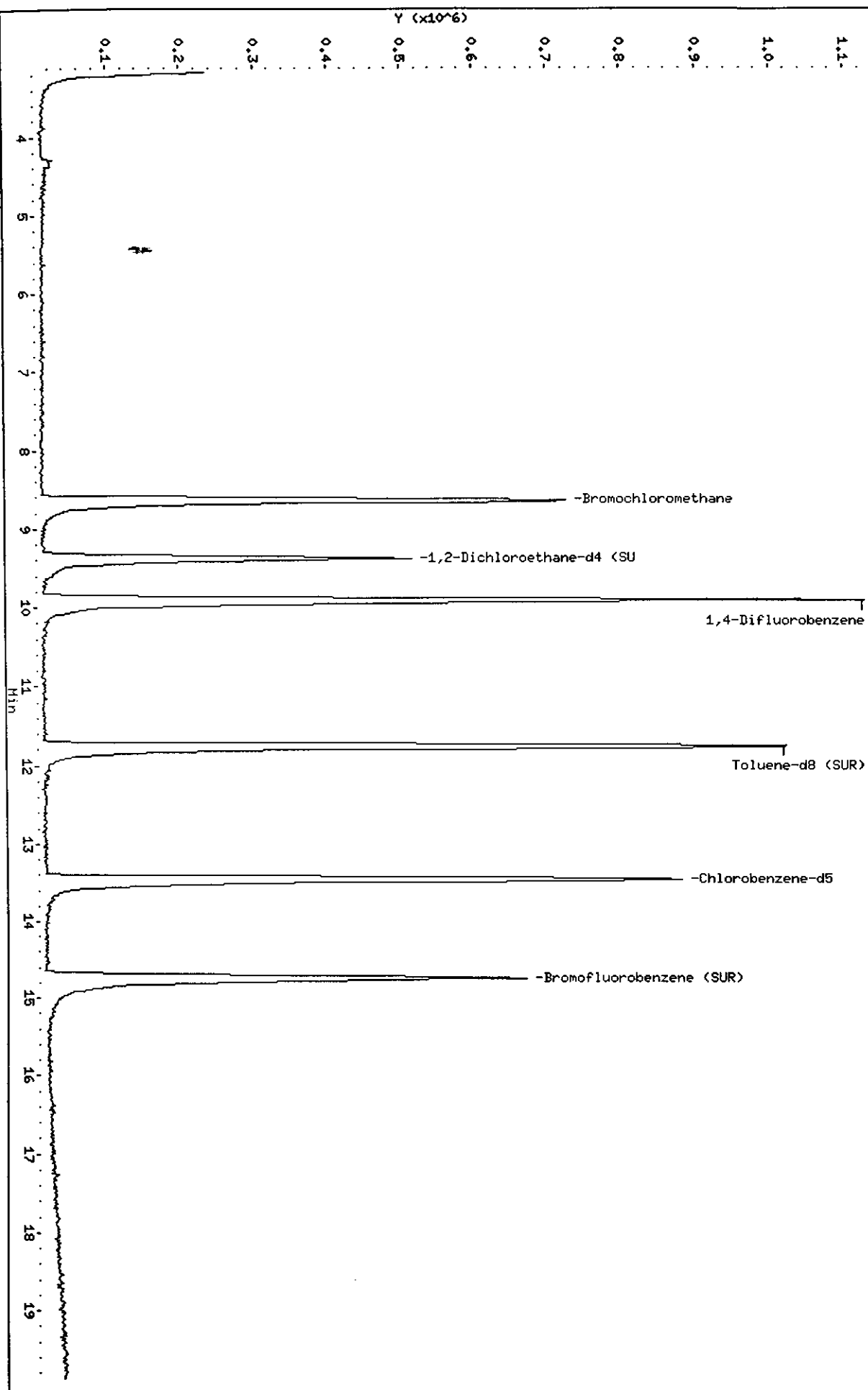
Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/L)	FINAL (ug/L)
* 2 Bromochloromethane		128	8.643	8.615	(1.000)	487281	30.0000	
\$ 16 1,2-Dichloroethane-d4 (SUR)		104	9.369	9.356	(0.946)	118024	28.2161	28
* 19 1,4-Difluorobenzene		114	9.903	9.890	(1.000)	1961341	30.0000	
\$ 37 Toluene-d8 (SUR)		98	11.757	11.743	(0.874)	1690685	32.8116	33
* 32 Chlorobenzene-d5		117	13.447	13.434	(1.000)	1299676	30.0000	
\$ 41 Bromofluorobenzene (SUR)		174	14.722	14.709	(1.095)	594044	27.1854	27

Data File: /chem/VOAHS7.1/624/10-24-00/30oct00.b/v22790.d
Date: 30-OCT-2000 21:59
Client ID: MW-1
Sample Info: 237821
Purge Volume: 5.0
Column phase: DB624

Instrument: VOAHS7.1
Operator: VOAHS 6
Column diameter: 0.53

W

/chem/VOAHS7.1/624/10-24-00/30oct00.b/v22790.d



Client ID: PZ-2
Site: Rexam DSI

Lab Sample No: 237822
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Analyzed: 10/30/00
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v22791.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 624

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u> <u>Limit</u> <u>Units: ug/l</u>
Chloromethane	ND	0.5
Bromomethane	ND	0.3
Vinyl Chloride	ND	0.6
Chloroethane	ND	0.4
Methylene Chloride	ND	0.8
Trichlorofluoromethane	ND	0.3
1,1-Dichloroethene	ND	0.4
1,1-Dichloroethane	ND	0.4
trans-1,2-Dichloroethene	ND	0.4
cis-1,2-Dichloroethene	ND	0.4
Chloroform	ND	0.2
1,2-Dichloroethane	ND	0.2
1,1,1-Trichloroethane	ND	0.3
Carbon Tetrachloride	ND	0.4
Bromodichloromethane	ND	0.2
1,2-Dichloropropane	ND	0.2
cis-1,3-Dichloropropene	ND	0.1
Trichloroethene	ND	0.4
Dibromochloromethane	ND	0.2
1,1,2-Trichloroethane	ND	0.3
Benzene	ND	0.3
trans-1,3-Dichloropropene	ND	0.3
2-Chloroethyl Vinyl Ether	ND	0.5
Bromoform	ND	0.1
Tetrachloroethene	ND	0.3
1,1,2,2-Tetrachloroethane	ND	0.1
Toluene	ND	0.3
Chlorobenzene	ND	0.2
Ethylbenzene	ND	0.3
Xylene (Total)	ND	0.3

Client ID: PZ-2
Site: Rexam DSI

Lab Sample No: 237822
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Analyzed: 10/30/00
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v22791.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 624

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			
TOTAL ESTIMATED CONCENTRATION		0.0	

Data File: /chem/VOAMS7.i/624/10-24-00/30oct00.b/v22791.d
Report Date: 31-Oct-2000 09:50

STL Envirotech

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS7.i/624/10-24-00/30oct00.b/v22791.d
Lab Smp Id: 237822 Client Smp ID: PZ-2
Inj Date : 30-OCT-2000 22:26
Operator : VOAMS 6 Inst ID: VOAMS7.i
Smp Info : 237822
Misc Info : F104;3599;;MR
Comment :
Method : /chem/VOAMS7.i/624/10-24-00/30oct00.b/624_00.m
Meth Date : 30-Oct-2000 11:07 riaz Quant Type: ISTD
Cal Date : 24-OCT-2000 16:39 Cal File: v22496.d
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPVOAv.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	5.00000	Sample Volume

Cpnd Variable

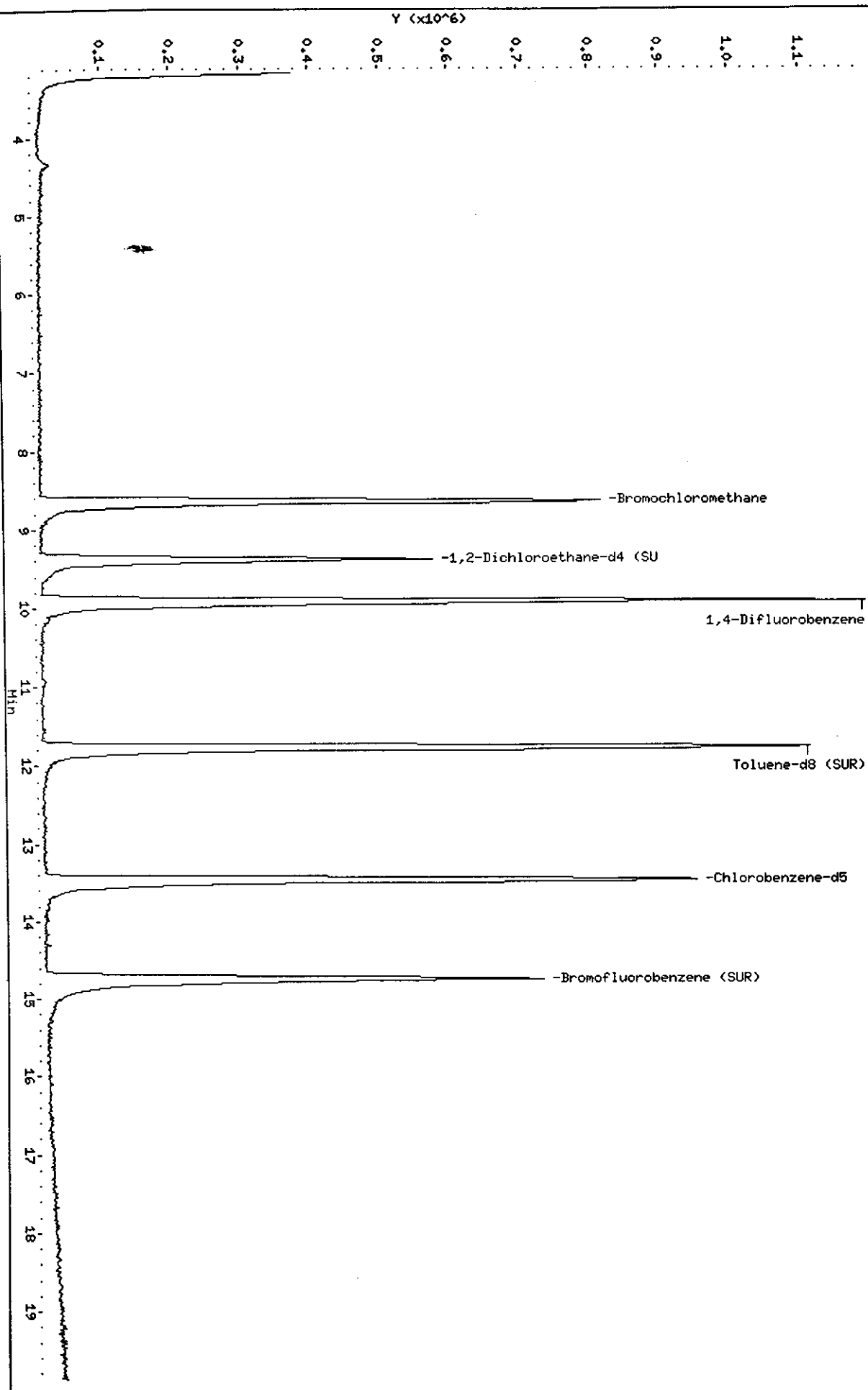
Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ug/L)	(ug/L)
* 2 Bromochloromethane		128	8.629	8.615	(1.000)	517387	30.0000	
\$ 16 1,2-Dichloroethane-d4 (SUR)		104	9.370	9.356	(0.946)	121865	27.4800	27
* 19 1,4-Difluorobenzene		114	9.904	9.890	(1.000)	2079420	30.0000	
\$ 37 Toluene-d8 (SUR)		98	11.743	11.743	(0.873)	1774612	32.7111	33
* 32 Chlorobenzene-d5		117	13.448	13.434	(1.000)	1368383	30.0000	
\$ 41 Bromofluorobenzene (SUR)		174	14.723	14.709	(1.095)	614738	26.7199	27

Data File: /chem/VOAHS7.1/624/10-24-00/30oct00.b/v22791.d
Date: 30-OCT-2000 22:26
Client ID: PZ-2
Sample Info: 237822
Purge Volume: 5.0
Column phase: DB624

Instrument: VOAHS7.1
Operator: VOAHS 6
Column diameter: 0.53

/chem/VOAHS7.1/624/10-24-00/30oct00.b/v22791.d



Client ID: Trip_Blank-1
Site: Rexam DSI

Lab Sample No: 237823
Lab Job No: F104

Date Sampled: 10/24/00
Date Received: 10/27/00
Date Analyzed: 10/30/00
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v22792.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 624

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u> <u>Limit</u> <u>Units: ug/l</u>
Chloromethane	ND	0.5
Bromomethane	ND	0.3
Vinyl Chloride	ND	0.6
Chloroethane	ND	0.4
Methylene Chloride	ND	0.8
Trichlorofluoromethane	ND	0.3
1,1-Dichloroethene	ND	0.4
1,1-Dichloroethane	ND	0.4
trans-1,2-Dichloroethene	ND	0.4
cis-1,2-Dichloroethene	ND	0.4
Chloroform	ND	0.2
1,2-Dichloroethane	ND	0.2
1,1,1-Trichloroethane	ND	0.3
Carbon Tetrachloride	ND	0.4
Bromodichloromethane	ND	0.2
1,2-Dichloropropane	ND	0.2
cis-1,3-Dichloropropene	ND	0.1
Trichloroethene	ND	0.4
Dibromochloromethane	ND	0.2
1,1,2-Trichloroethane	ND	0.3
Benzene	ND	0.3
trans-1,3-Dichloropropene	ND	0.3
2-Chloroethyl Vinyl Ether	ND	0.5
Bromoform	ND	0.1
Tetrachloroethene	ND	0.3
1,1,2,2-Tetrachloroethane	ND	0.1
Toluene	ND	0.3
Chlorobenzene	ND	0.2
Ethylbenzene	ND	0.3
Xylene (Total)	ND	0.3

Client ID: Trip_Blank-1
Site: Rexam DSI

Lab Sample No: 237823
Lab Job No: F104

Date Sampled: 10/24/00
Date Received: 10/27/00
Date Analyzed: 10/30/00
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v22792.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 624

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

Data File: /chem/VOAMS7.i/624/10-24-00/30oct00.b/v22792.d
Report Date: 31-Oct-2000 09:50

STL Envirotech

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS7.i/624/10-24-00/30oct00.b/v22792.d
Lab Smp Id: 237823 Client Smp ID: Trip_Blank-1
Inj Date : 30-OCT-2000 22:53
Operator : VOAMS 6 Inst ID: VOAMS7.i
Smp Info : 237823
Misc Info : F104;3599;;MR
Comment :
Method : /chem/VOAMS7.i/624/10-24-00/30oct00.b/624_00.m
Meth Date : 30-Oct-2000 11:07 riaz Quant Type: ISTD
Cal Date : 24-OCT-2000 16:39 Cal File: v22496.d
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPVOAv.sub
Target Version: 3.50

Concentration Formula: $\text{Amt} * \text{DF} * 5/\text{Vo} * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	5.00000	Sample Volume

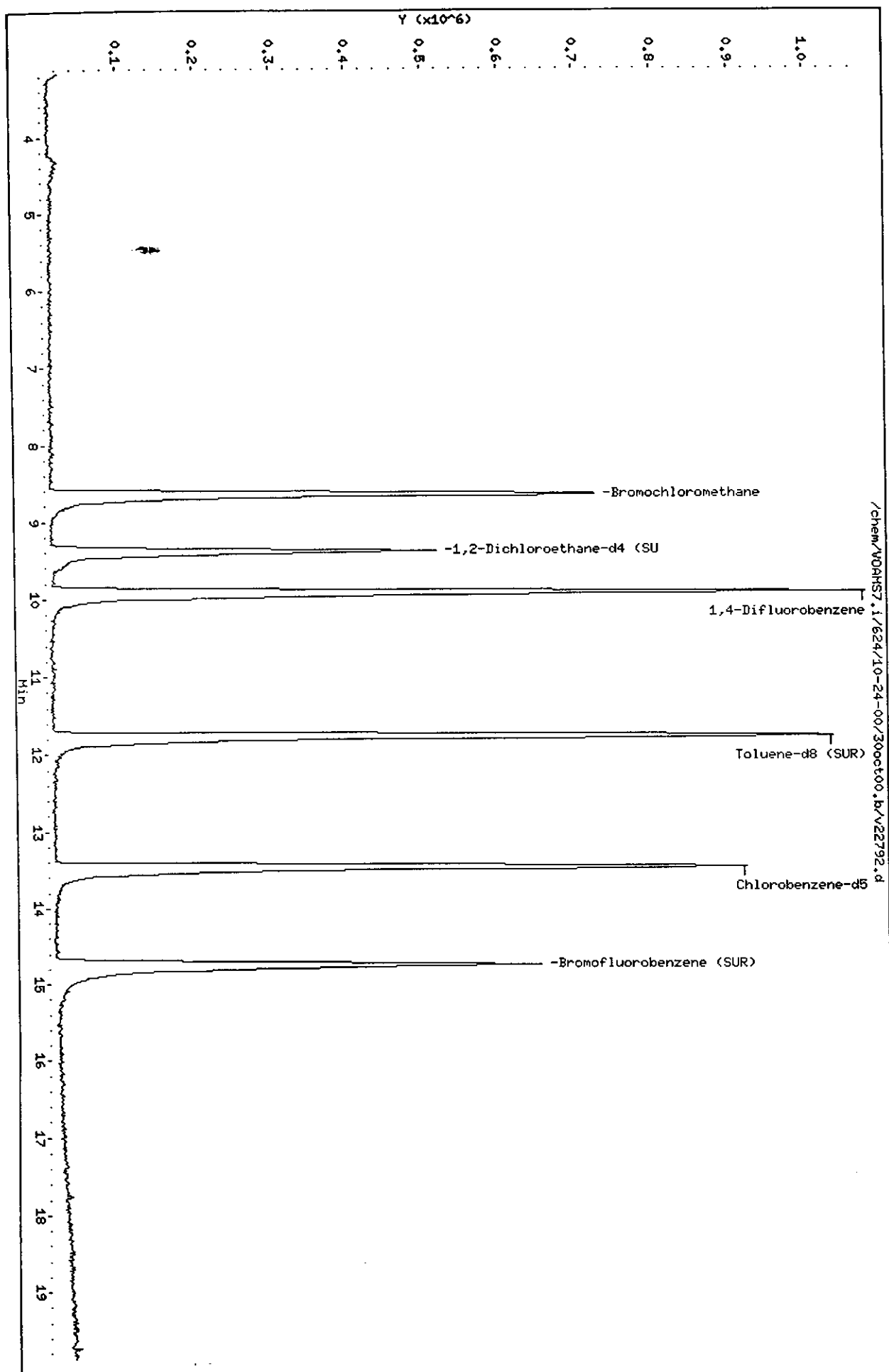
Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/L)
* 2 Bromochloromethane	128	8.644	8.615	(1.000)	481515	30.0000	
\$ 16 1,2-Dichloroethane-d4 (SUR)	104	9.370	9.356	(0.946)	116331	28.0297	28
* 19 1,4-Difluorobenzene	114	9.904	9.890	(1.000)	1946062	30.0000	
\$ 37 Toluene-d8 (SUR)	98	11.758	11.743	(0.874)	1667568	33.2336	33
* 32 Chlorobenzene-d5	117	13.448	13.434	(1.000)	1265626	30.0000	
\$ 41 Bromofluorobenzene (SUR)	174	14.738	14.709	(1.096)	556723	26.1629	26

Data File: /chem/VOAHS7.1/624/10-24-00/30oct00.b/v22792.d
Date: 30-OCT-2000 22:53
Client ID: Trip_Blank-1
Sample Info: 237823
Purge Volume: 5.0
Column phase: DB624

Instrument: VOAHS7.1
Operator: VOAHS 6
Column diameter: 0.53



Client ID: Field_Blank-1025
Site: Rexam DSI

Lab Sample No: 237824
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Analyzed: 10/30/00
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v22793.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 624

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u> <u>Limit</u> <u>Units: ug/l</u>
Chloromethane	ND	0.5
Bromomethane	ND	0.3
Vinyl Chloride	ND	0.6
Chloroethane	ND	0.4
Methylene Chloride	ND	0.8
Trichlorofluoromethane	ND	0.3
1,1-Dichloroethene	ND	0.4
1,1-Dichloroethane	ND	0.4
trans-1,2-Dichloroethene	ND	0.4
cis-1,2-Dichloroethene	ND	0.4
Chloroform	ND	0.2
1,2-Dichloroethane	ND	0.2
1,1,1-Trichloroethane	ND	0.3
Carbon Tetrachloride	ND	0.4
Bromodichloromethane	ND	0.2
1,2-Dichloropropane	ND	0.2
cis-1,3-Dichloropropene	ND	0.1
Trichloroethene	ND	0.4
Dibromochloromethane	ND	0.2
1,1,2-Trichloroethane	ND	0.3
Benzene	ND	0.3
trans-1,3-Dichloropropene	ND	0.3
2-Chloroethyl Vinyl Ether	ND	0.5
Bromoform	ND	0.1
Tetrachloroethene	ND	0.3
1,1,2,2-Tetrachloroethane	ND	0.1
Toluene	ND	0.3
Chlorobenzene	ND	0.2
Ethylbenzene	ND	0.3
Xylene (Total)	ND	0.3

Client ID: Field_Blank-1025
Site: Rexam DSI

Lab Sample No: 237824
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Analyzed: 10/30/00
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v22793.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 624

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

Data File: /chem/VOAMS7.i/624/10-24-00/30oct00.b/v22793.d
Report Date: 31-Oct-2000 09:50

STL Envirotech

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS7.i/624/10-24-00/30oct00.b/v22793.d
Lab Smp Id: 237824 Client Smp ID: Field_Blank-1025
Inj Date : 30-OCT-2000 23:19
Operator : VOAMS 6 Inst ID: VOAMS7.i
Smp Info : 237824
Misc Info : F104;3567;;MR
Comment :
Method : /chem/VOAMS7.i/624/10-24-00/30oct00.b/624 00.m
Meth Date : 30-Oct-2000 11:07 riaz Quant Type: ISTD
Cal Date : 24-OCT-2000 16:39 Cal File: v22496.d
Als bottle: 23
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPVOAv.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	5.00000	Sample Volume

Cpnd Variable

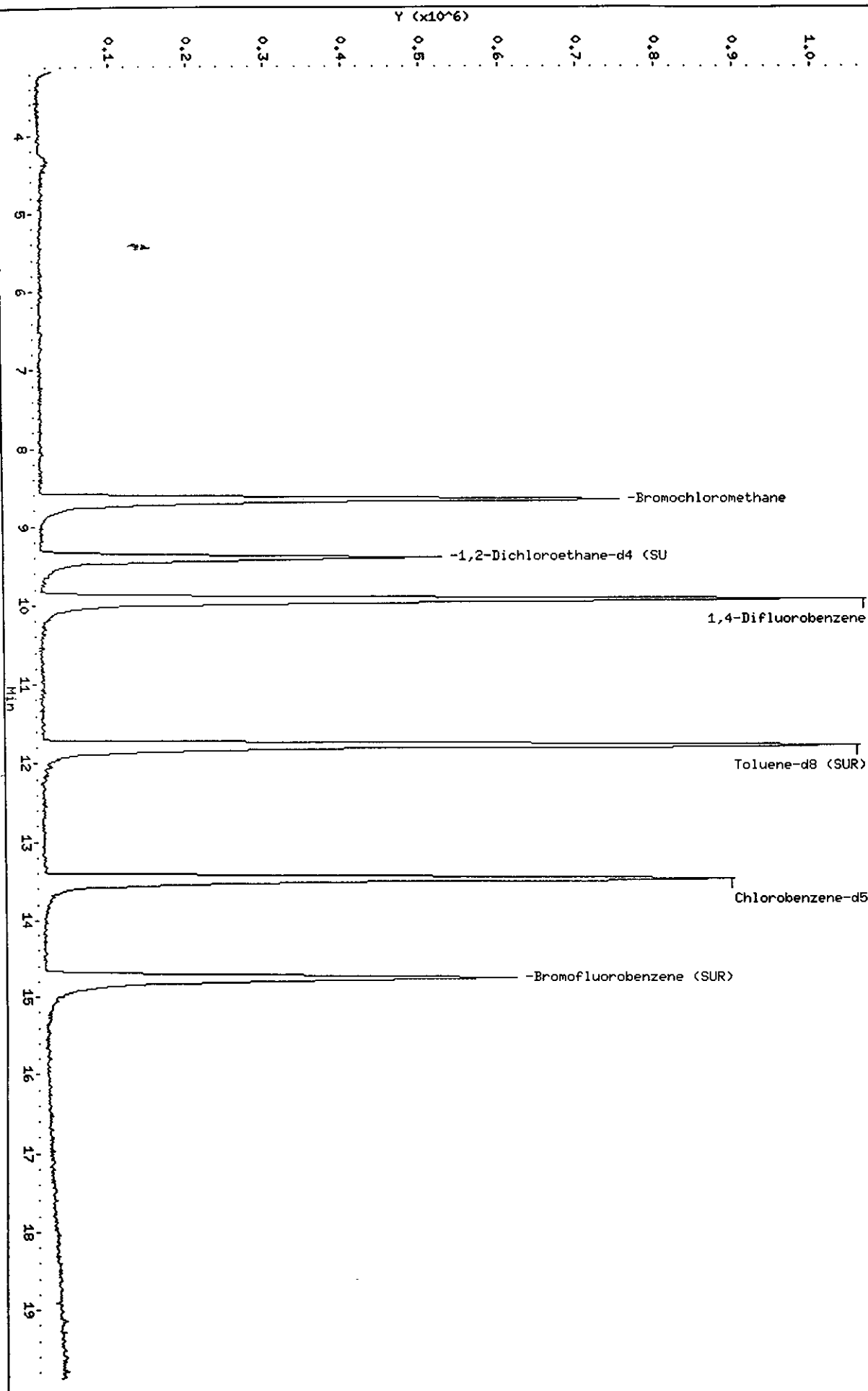
Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/L)
* 2 Bromochloromethane	128	8.644	8.615	(1.000)	478894	30.0000	
\$ 16 1,2-Dichloroethane-d4 (SUR)	104	9.385	9.356	(0.946)	115963	28.1421	28
* 19 1,4-Difluorobenzene	114	9.919	9.890	(1.000)	1932157	30.0000	
\$ 37 Toluene-d8 (SUR)	98	11.758	11.743	(0.874)	1661423	32.9197	33
* 32 Chlorobenzene-d5	117	13.448	13.434	(1.000)	1272985	30.0000	
\$ 41 Bromofluorobenzene (SUR)	174	14.738	14.709	(1.096)	541363	25.2940	25

Data File: /chem/VOAHS7.1/624/10-24-00/30oct00.b/v22793.d
Date: 30-OCT-2000 23:19
Client ID: Field_Blank-1025
Sample Info: 237824
Purge Volume: 5.0
Column phase: DB624

Instrument: VOAHS7.i
Operator: VOAHS 6
Column diameter: 0.53

/chem/VOAHS7.1/624/10-24-00/30oct00.b/v22793.d



Client ID: RC-1_2nd_Flr
Site: Rexam DSI

Lab Sample No: 237825
Lab Job No: F104

Date Sampled: 10/26/00
Date Received: 10/27/00
Date Analyzed: 10/31/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10515.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.4 g
Purge Volume: 5.0 ml
% Moisture: 0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Chloromethane	ND	4.6
Bromomethane	ND	4.6
Vinyl Chloride	ND	4.6
Chloroethane	ND	4.6
Methylene Chloride	ND	2.8
Trichlorofluoromethane	ND	4.6
1,1-Dichloroethene	ND	1.8
1,1-Dichloroethane	ND	4.6
trans-1,2-Dichloroethene	ND	4.6
cis-1,2-Dichloroethene	ND	4.6
Chloroform	ND	4.6
1,2-Dichloroethane	ND	1.8
1,1,1-Trichloroethane	ND	4.6
Carbon Tetrachloride	ND	1.8
Bromodichloromethane	ND	0.9
1,2-Dichloropropane	ND	0.9
cis-1,3-Dichloropropene	ND	4.6
Trichloroethene	ND	0.9
Dibromochloromethane	ND	4.6
1,1,2-Trichloroethane	ND	2.8
Benzene	ND	0.9
trans-1,3-Dichloropropene	ND	4.6
2-Chloroethyl Vinyl Ether	ND	4.6
Bromoform	ND	3.7
Tetrachloroethene	2.9	0.9
1,1,2,2-Tetrachloroethane	ND	0.9
Toluene	0.7J	4.6
Chlorobenzene	ND	4.6
Ethylbenzene	ND	3.7
Xylene (Total)	ND	4.6

Client ID: RC-1_2nd_Flr
Site: Rexam DSI

Lab Sample No: 237825
Lab Job No: F104

Date Sampled: 10/26/00
Date Received: 10/27/00
Date Analyzed: 10/31/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10515.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.4 g
Purge Volume: 5.0 ml
% Moisture: 0.2

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. 2-Propanone	6.05	5.4	
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

5.4

Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10515.d
 Report Date: 01-Nov-2000 12:43

STL Envirotech

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10515.d
 Lab Smp ID: 237825 Client Smp ID: RC-1_2nd_Flr
 Inj Date : 31-OCT-2000 18:14
 Operator : VOAMS 8 Inst ID: VOAMS1.i
 Smp Info : 237825;;0.2;5.43;5
 Misc Info : F104;1918;KLB *AT*
 Comment :
 Method : /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/8260L_00.m
 Meth Date : 31-Oct-2000 13:55 ken Quant Type: ISTD
 Cal Date : 20-OCT-2000 18:54 Cal File: a10343.d
 Als bottle: 20
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PPVOA.sub
 Target Version: 3.50
 Processing Host: hpd2

Concentration Formula: $\text{Amt} * \text{DF} * ((\text{Vt}/\text{Ws})/((100-\text{M})/100)) * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	5.00000	Volume of final extract (mL)
Ws	5.43000	Weight of sample extracted (g)
M	0.20000	% Moisture (not decanted)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/Kg)
\$ 16 1,2-Dichloroethane-d4 (SUR)	65	9.686	9.655	(0.956)	1220322	50.2009	46
* 19 Fluorobenzene	96	10.129	10.113	(1.000)	4076808	50.0000	
\$ 37 Toluene-d8 (SUR)	98	12.065	12.049	(0.878)	2636245	51.5751	48
38 Toluene	91	12.153	12.137	(0.884)	45691	0.74942	0.69(a)
35 Tetrachloroethene	166	12.833	12.817	(0.933)	122673	3.12180	2.9
* 32 Chlorobenzene-d5	117	13.749	13.748	(1.000)	2636727	50.0000	
\$ 41 Bromofluorobenzene (SUR)	174	15.034	15.033	(0.924)	1367245	70.1020	65
* 91 1,4-Dichlorobenzene-d4	152	16.275	16.274	(1.000)	885183	50.0000	

QC Flag Legend

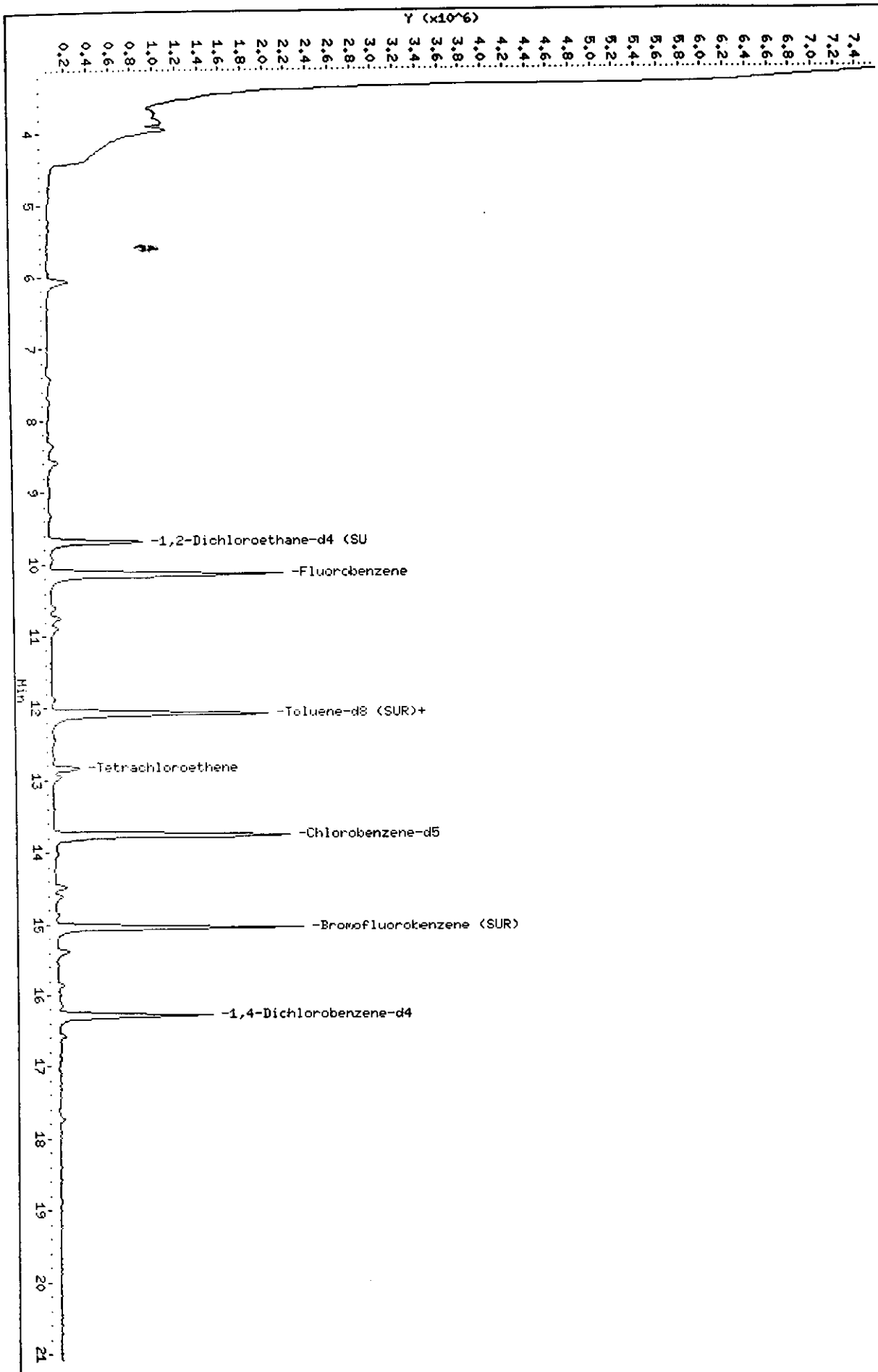
a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).

VUN Conf. ISTD & sum. out by A 10508.

Data File: /chem/V04H51.i/8260LDM.SP/10-20-00/31oct00.b/a10515.d
Date : 31-OCT-2000 18:14
Client ID: RC-1_2nd_F1r
Sample Info: 237825;10.2;5.43;5
Column phase: DB624

Instrument: V04H51.i
Operator: V04H5 8
Column diameter: 0.53

/chem/V04H51.i/8260LDM.SP/10-20-00/31oct00.b/a10515.d



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10515.d

Date : 31-OCT-2000 18:14

Client ID: RC-1_2nd_Flr

Instrument: VOAMS1.i

Sample Info: 237825;;0.2;5.43;5

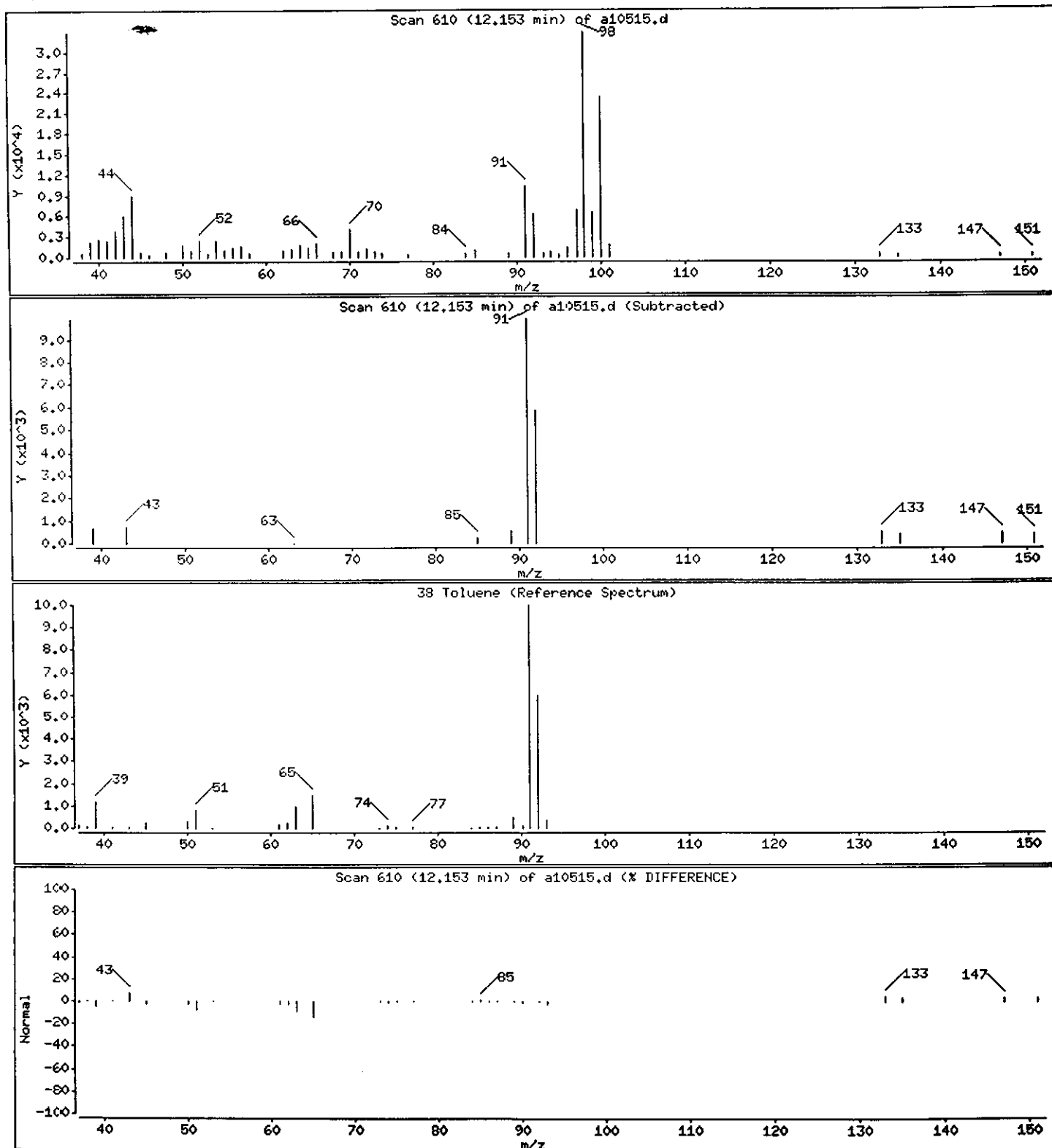
Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

38 Toluene

Concentration: 0.69 ug/Kg



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10515.d

Date : 31-OCT-2000 18:14

Client ID: RC-1_2nd_Flr

Sample Info: 237825;;0.2;5.43;5

Instrument: VOAMS1.i

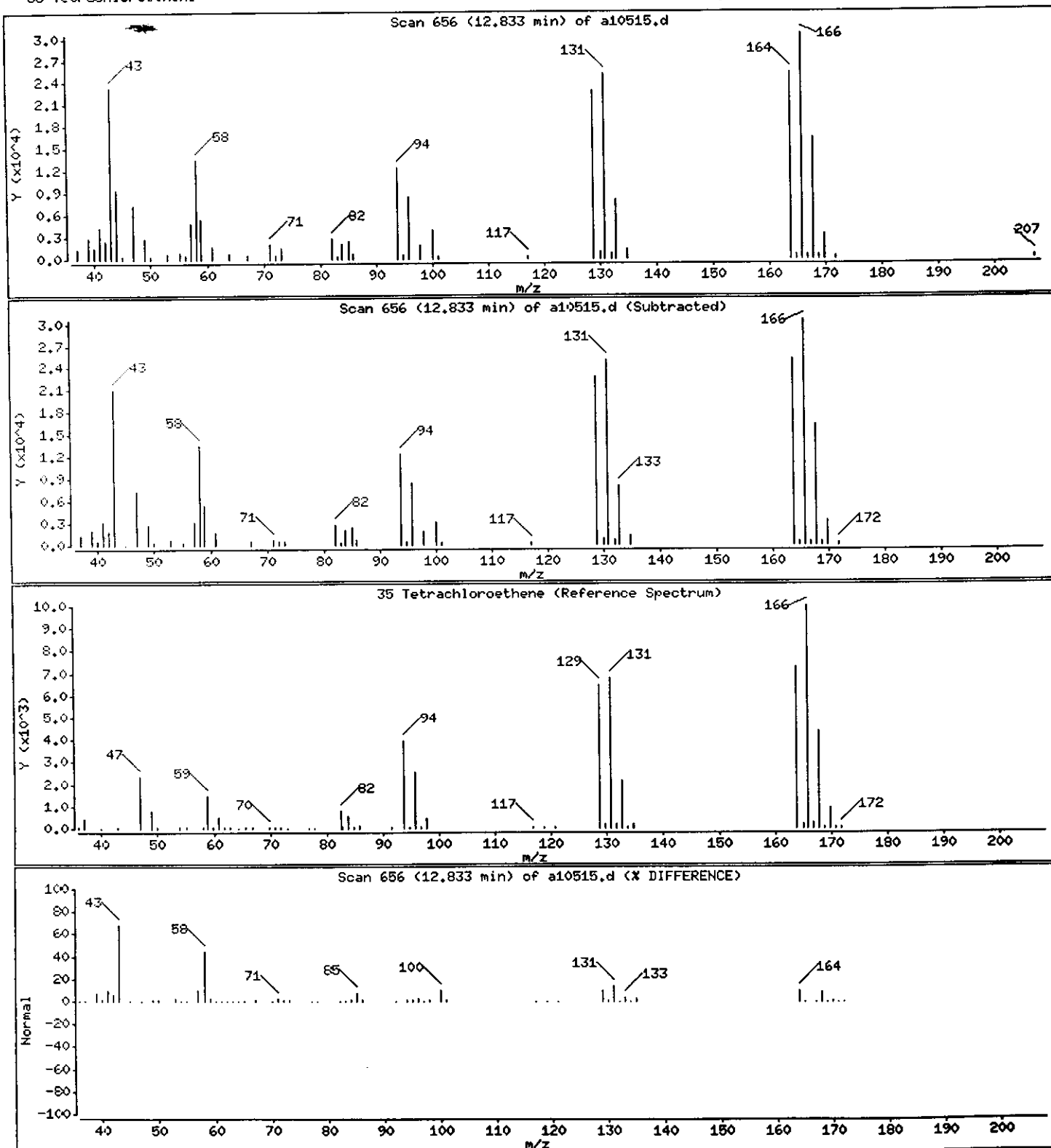
Operator: VOAMS 8

Column diameter: 0.53

Column phase: DB624

Concentration: 2.9 ug/Kg

35 Tetrachloroethene



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10515.d

Date : 31-OCT-2000 18:14

Client ID: RC-1_2nd_Flr

Instrument: VOAMS1.i

Sample Info: 237825;;0.2;5.43;5

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match

CAS Number

Library

Entry

Quality

Formula

Weight

2-Propanone

67-64-1

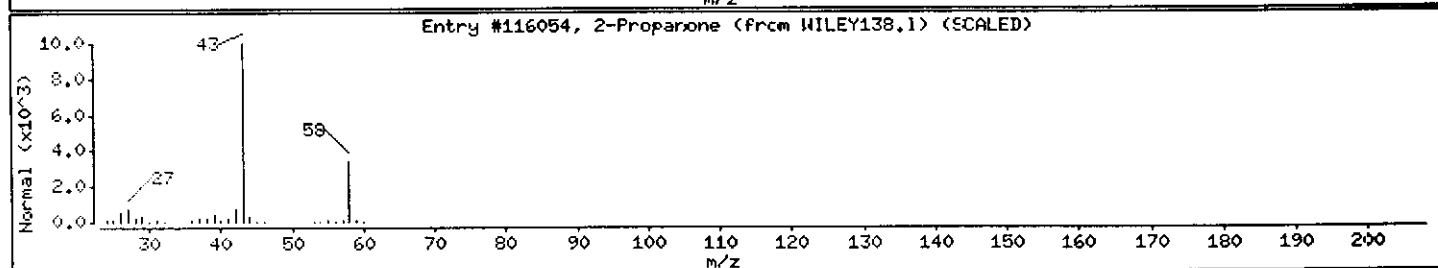
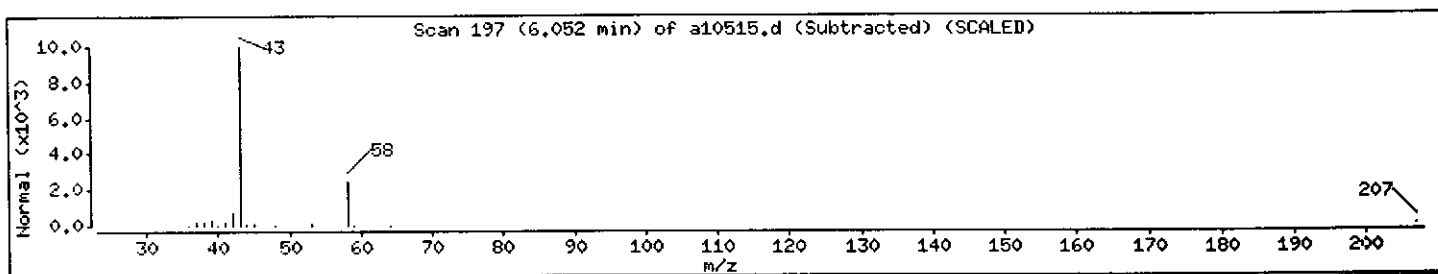
WILEY138.1

116054

38

C3H6O

58



Client ID: RC-2_3rd_Flr
Site: Rexam DSI

Lab Sample No: 237826
Lab Job No: F104

Date Sampled: 10/26/00
Date Received: 10/27/00
Date Analyzed: 10/31/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10510.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.0 g
Purge Volume: 5.0 ml
% Moisture: 4

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Chloromethane	ND	5.2
Bromomethane	ND	5.2
Vinyl Chloride	ND	5.2
Chloroethane	ND	5.2
Methylene Chloride	0.8JB	3.1
Trichlorofluoromethane	ND	5.2
1,1-Dichloroethene	ND	2.1
1,1-Dichloroethane	ND	5.2
trans-1,2-Dichloroethene	ND	5.2
cis-1,2-Dichloroethene	ND	5.2
Chloroform	1.8J	5.2
1,2-Dichloroethane	ND	2.1
1,1,1-Trichloroethane	ND	5.2
Carbon Tetrachloride	ND	2.1
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.2
Trichloroethene	0.8J	1.0
Dibromochloromethane	ND	5.2
1,1,2-Trichloroethane	ND	3.1
Benzene	11	1.0
trans-1,3-Dichloropropene	ND	5.2
2-Chloroethyl Vinyl Ether	ND	5.2
Bromoform	ND	4.2
Tetrachloroethene	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	7.2	5.2
Chlorobenzene	ND	5.2
Ethylbenzene	ND	4.2
Xylene (Total)	ND	5.2

Client ID: RC-2_3rd_Flr
Site: Rexam DSI

Lab Sample No: 237826
Lab Job No: F104

Date Sampled: 10/26/00
Date Received: 10/27/00
Date Analyzed: 10/31/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10510.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.0 g
Purge Volume: 5.0 ml
% Moisture: 4.2

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. 2-Propanone	6.05	36	
2. Acetic acid, methyl ester	6.59	6.2	
3. Butanal	8.34	8.3	
4. 2-Butanone	8.56	16	
5. Pentanal	9.92	6.2	
6. C5H10O Ketone	10.74	10	
7. 2-Hexanone	12.82	6.9	
8. C8H16O Ketone	15.38	11	
9.			
10.			
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14.			
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30.			

TOTAL ESTIMATED CONCENTRATION

101

Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10510.d
Report Date: 01-Nov-2000 17:15

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VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10510.d
Lab Smp ID: 237826 Client Smp ID: RC-2_3rd_Flr
Inj Date : 31-OCT-2000 15:41
Operator : VOAMS 8 Inst ID: VOAMS1.i
Smp Info : 237826;;4.2;5.03;5
Misc Info : F104;1918;FM *W5 11/1/00*
Comment :
Method : /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/8260L_00.m
Meth Date : 31-Oct-2000 13:55 ken Quant Type: ISTD
Cal Date : 20-OCT-2000 18:54 Cal File: a10343.d
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPVOA.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	5.00000	Volume of final extract (mL)
Ws	5.03000	Weight of sample extracted (g)
M	4.20000	% Moisture (not decanted)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE		ON-COLUMN	FINAL
							(ug/L)	(ug/Kg)
6 Methylene Chloride	84	6.748	6.701	(0.666)	6412		0.77239	0.80 (aH)
15 Chloroform	83	9.023	8.976	(0.891)	31385		1.76979	1.8 (a)
\$ 16 1,2-Dichloroethane-d4 (SUR)	65	9.687	9.655	(0.956)	426376		58.5091	61
28 Benzene	78	9.820	9.788	(0.969)	222987		11.0519	11
* 19 Fluorobenzene	96	10.131	10.113	(1.000)	1222155		50.0000	
25 Trichloroethene	95	10.633	10.586	(1.050)	9518		0.81038	0.84 (a)
\$ 37 Toluene-d8 (SUR)	98	12.066	12.049	(0.877)	642561		59.8672	62
38 Toluene	91	12.155	12.137	(0.883)	88554		6.91703	7.2
* 32 Chlorobenzene-d5	117	13.765	13.748	(1.000)	553663		50.0000	
\$ 41 Bromofluorobenzene (SUR)	174	15.035	15.033	(0.924)	353717		56.5595	59
* 91 1,4-Dichlorobenzene-d4	152	16.276	16.274	(1.000)	283836		50.0000	

Confirmed by #10516.

Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10510.d
Report Date: 01-Nov-2000 17:15

QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- H - Operator selected an alternate compound hit.

Data File: /chem/VOAHS1.i/8260L0M.SP/10-20-00/31oct00.b/a10510.d

Date : 31-OCT-2000 15:41

Client ID: RC-2_3rd_F1r

Sample Info: 237826;4.2;5.03;5

Column phase: DB624

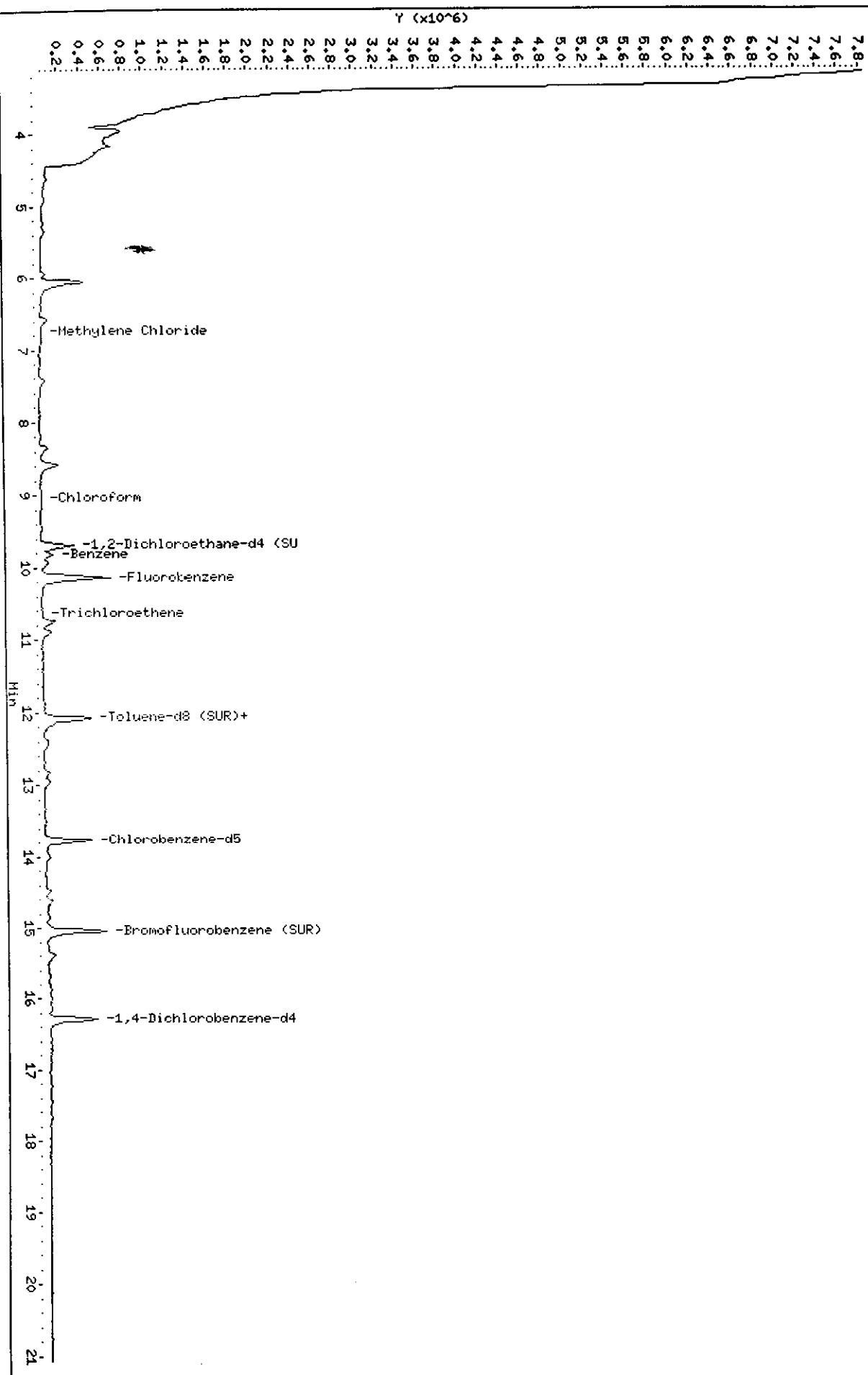
Instrument: VOAHS1.i

Operator: VOAHS 8

Column diameter: 0.53

146

/chem/VOAHS1.i/8260L0M.SP/10-20-00/31oct00.b/a10510.d



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10510.d

Date : 31-OCT-2000 15:41

Client ID: RC-2_3rd_Flr

Sample Info: 237826;;4.2;5.03;5

Instrument: VOAMS1.i

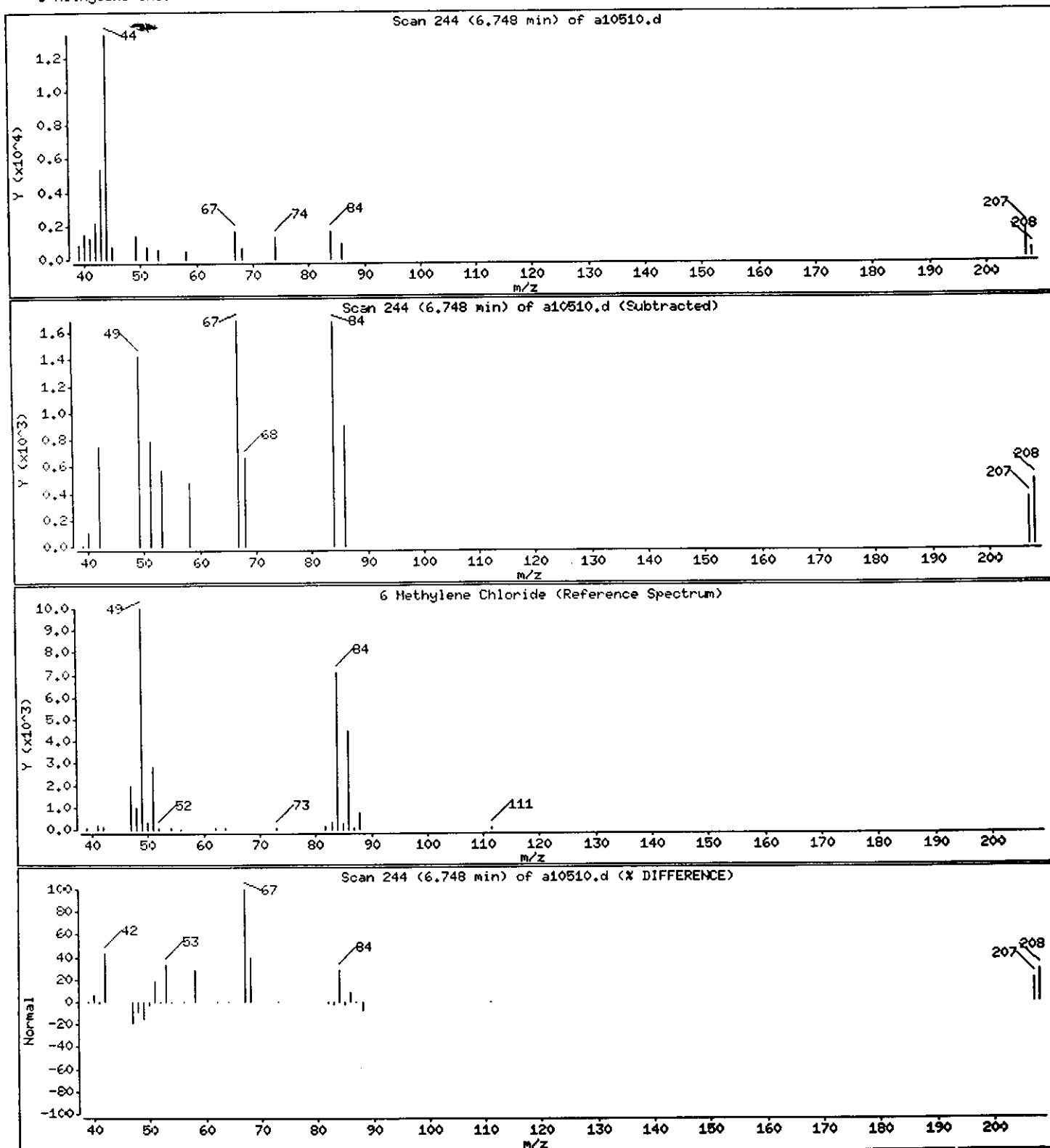
Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

6 Methylene Chloride

Concentration: 0.80 ug/Kg



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10510.d

Date : 31-OCT-2000 15:41

Client ID: RC-2_3rd_Flr

Sample Info: 237826;;4.2;5.03;5

Instrument: VOAMS1.i

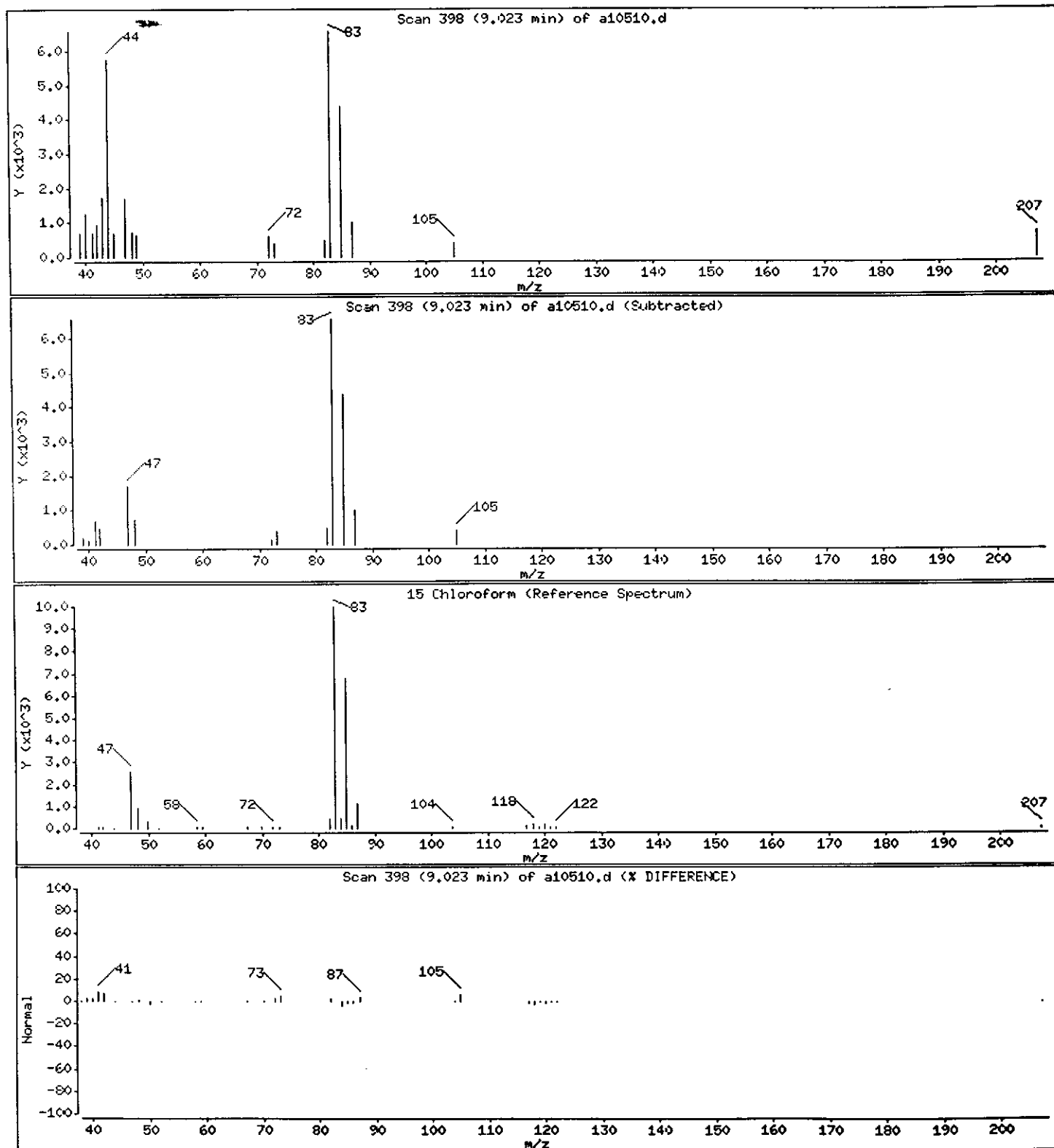
Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

15 Chloroform

Concentration: 1.8 ug/Kg



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10510.d

Date : 31-OCT-2000 15:41

Client ID: RC-2_3rd_Flr

Sample Info: 237826;;4.2;5.03;5

Instrument: VOAMS1.i

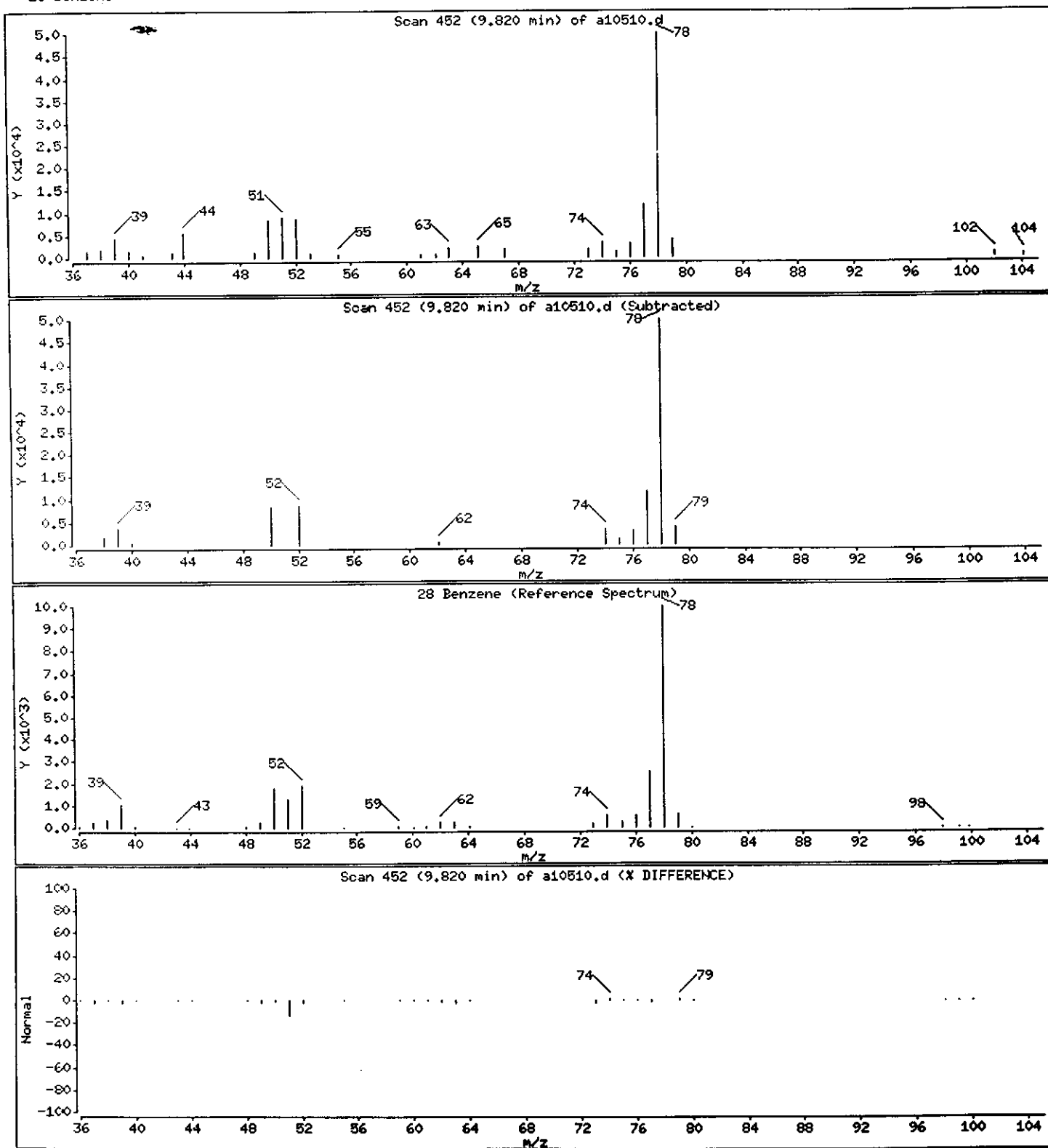
Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

28 Benzene

Concentration: 11 ug/Kg



Data File: /chem/VOAHS1.i/8260LOW_SP/10-20-00/31oct00.b/a10510.d

Date : 31-OCT-2000 15:41

Client ID: RC-2_3rd_Flr

Sample Info: 237826;;4.2;5.03;5

Instrument: VOAHS1.i

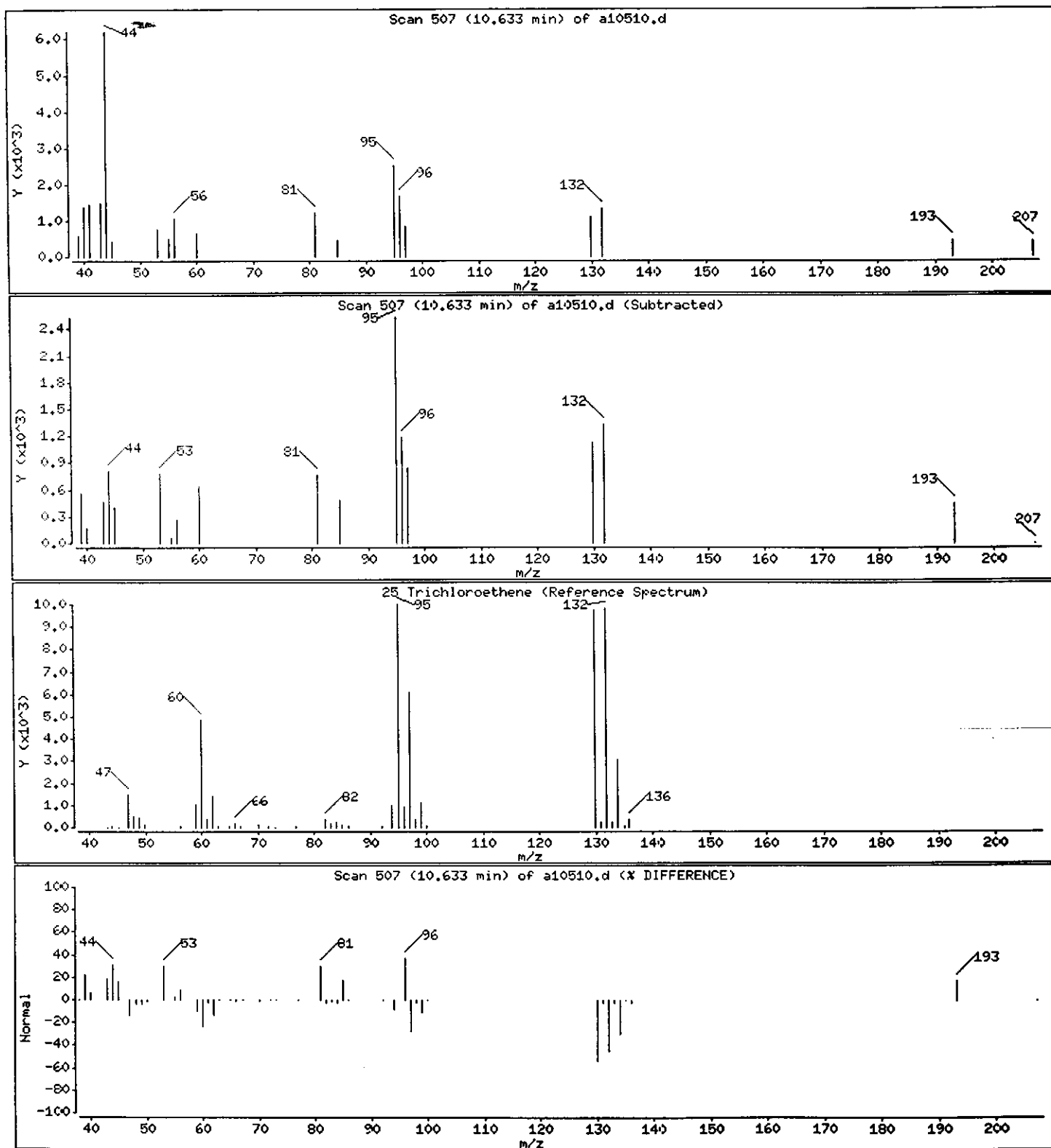
Operator: VOAHS 8

Column phase: DB624

Column diameter: 0.53

25 Trichloroethene

Concentration: 0.84 ug/Kg



Data File: /chem/VOAMS1.1/8260LOW_SP/10-20-00/31oct00.b/a10510.d

Date : 31-OCT-2000 15:41

Client ID: RC-2_3rd_Flr

Sample Info: 237826;;4.2;5.03;5

Instrument: VOAMS1.1

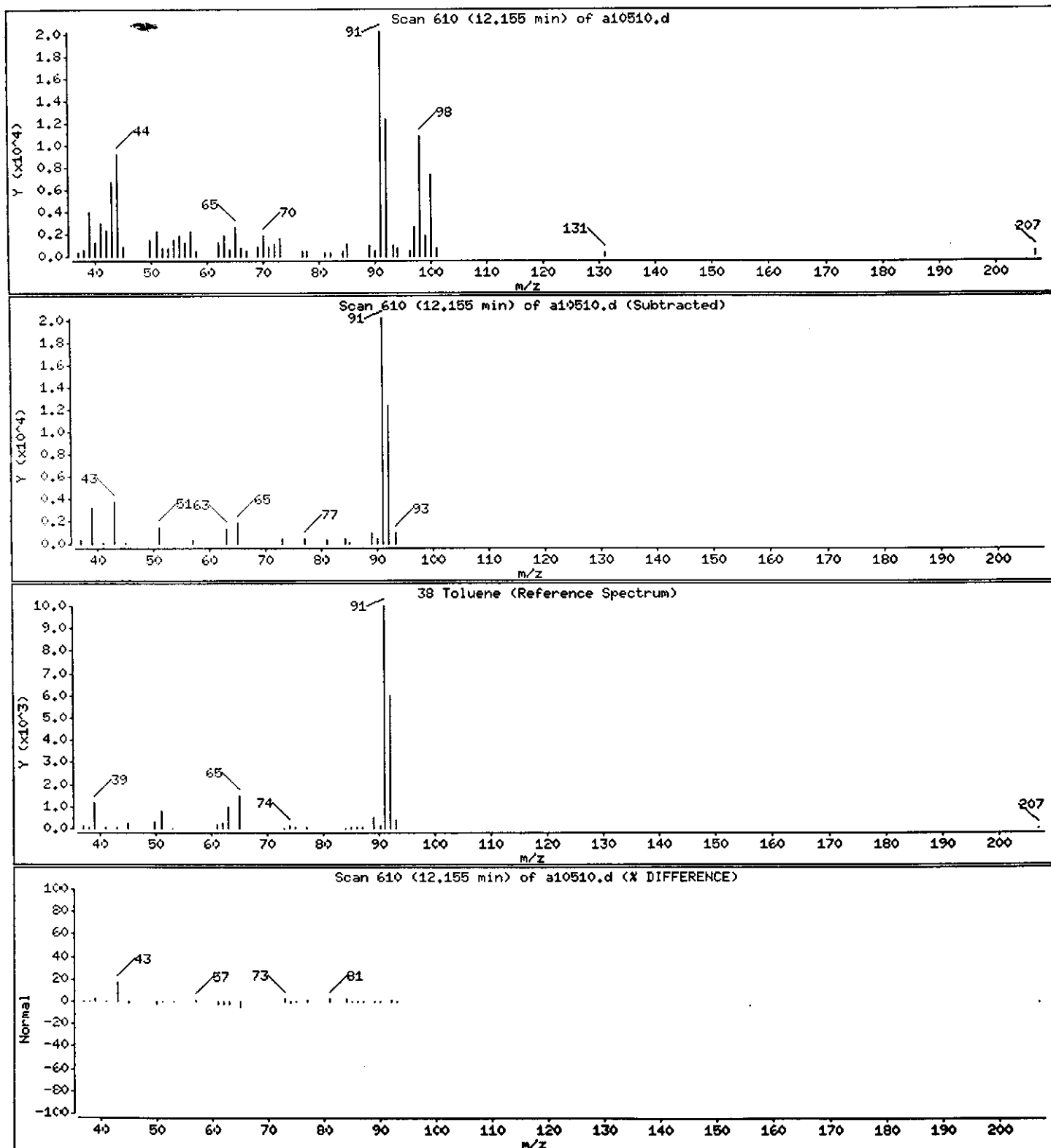
Operator: VOAMS 8

Column diameter: 0.53

Column phase: DB624

Concentration: 7.2 ug/Kg

38 Toluene



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10510.d

Date : 31-OCT-2000 15:41

Client ID: RC-2_3rd_Flr

Instrument: VOAMS1.i

Sample Info: 237826;;4.2;5.03;5

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match

CAS Number

Library

Entry

Quality

Formula

Weight

2-Propanone

67-64-1

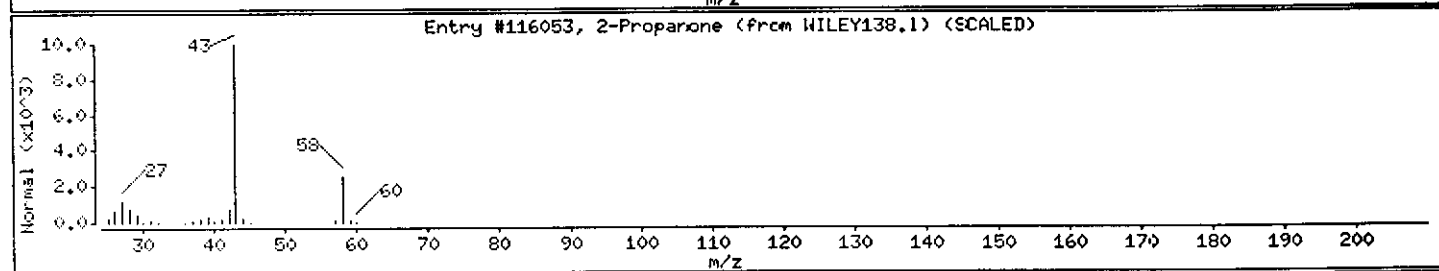
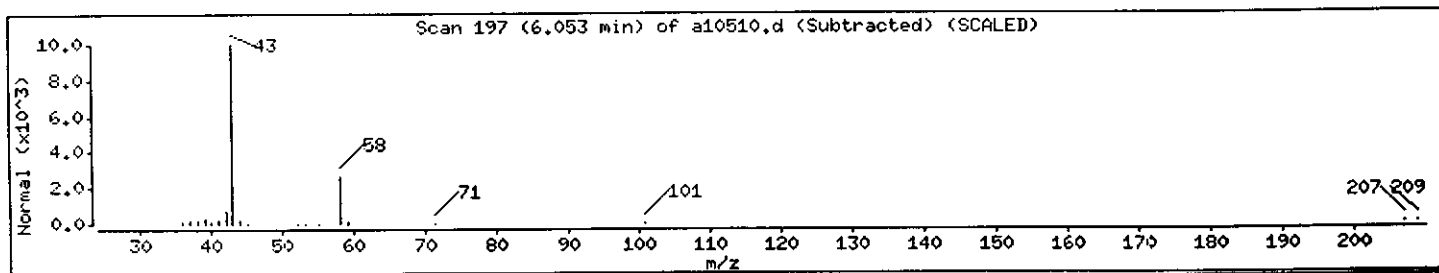
WILEY138.1

116053

72

C3H6O

58



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10510.d

Date : 31-OCT-2000 15:41

Client ID: RC-2_3rd_Flr

Instrument: VOAMS1.i

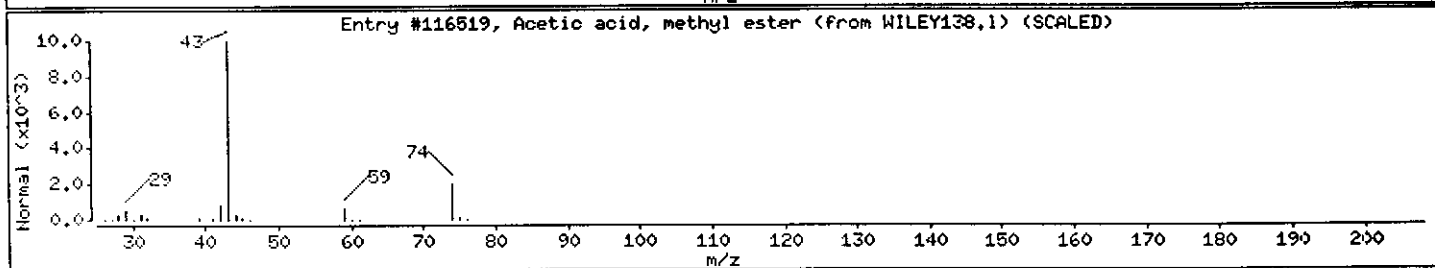
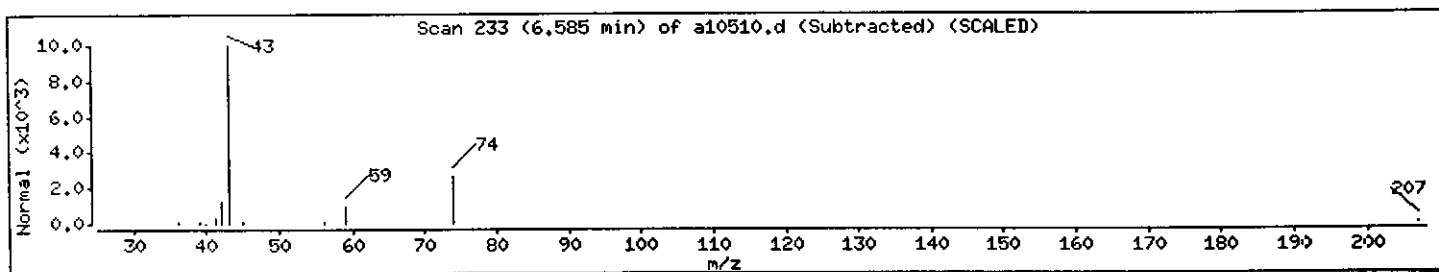
Sample Info: 237826;;4.2;5.03;5

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Acetic acid, methyl ester	79-20-9	WILEY138.1	116519	64	C3H6O2	74
Unknown Organic Acid			0	0		0



Data File: /chem/VOAMS1.i/8260LOW_SP/19-20-00/31oct00.b/a10510.d

Date : 31-OCT-2000 15:41

Client ID: RC-2_3rd_Flr

Instrument: VOAMS1.i

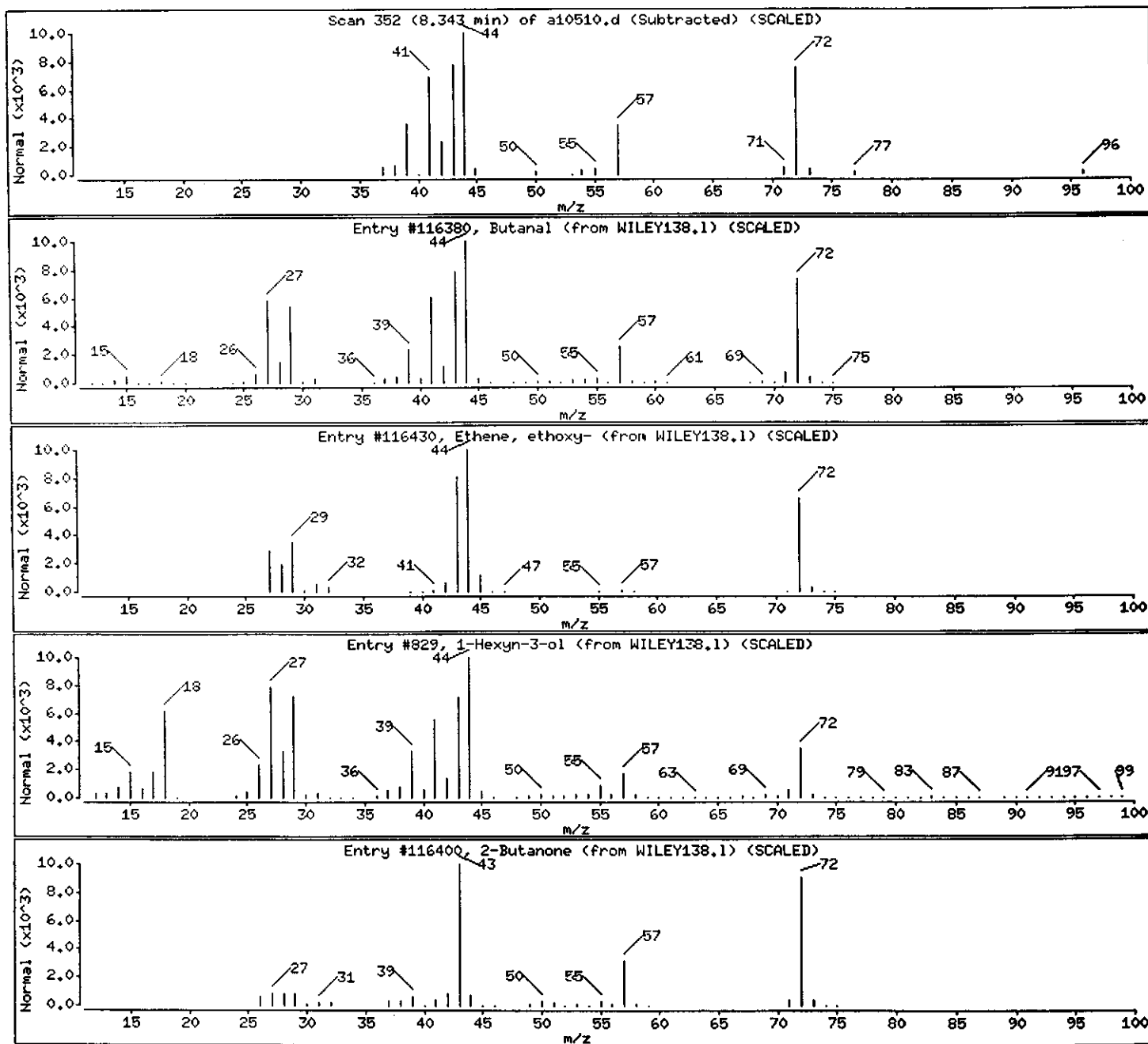
Sample Info: 237826;;4.2;5.03;5

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Butanal	123-72-8	WILEY138.1	116380	86	C4H8O	72
Ethene, ethoxy-	109-92-2	WILEY138.1	116430	72	C4H8O	72
1-Hexyn-3-ol	105-31-7	WILEY138.1	829	56	C6H10O	98
2-Butanone	78-93-3	WILEY138.1	116400	43	C4H8O	72



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10510.d

Date : 31-OCT-2000 15:41

Client ID: RC-2_3rd_Flr

Instrument: VOAMS1.i

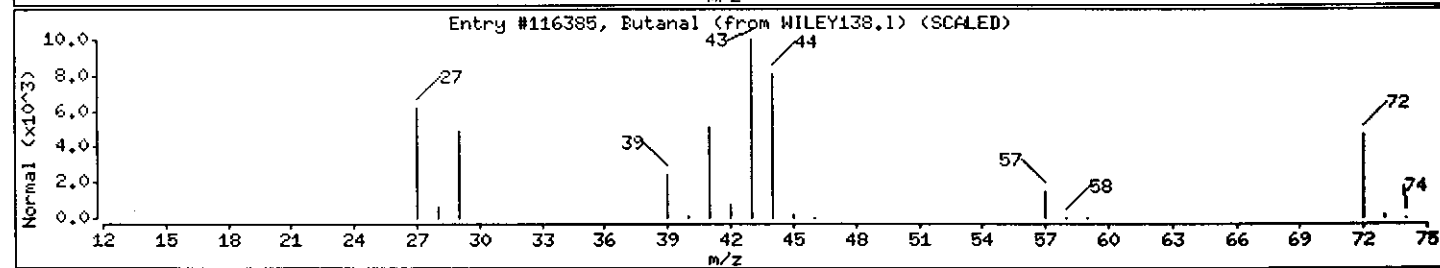
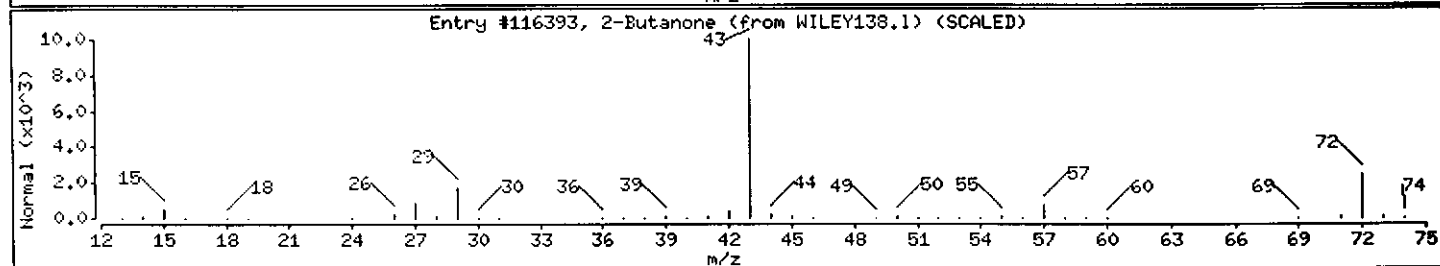
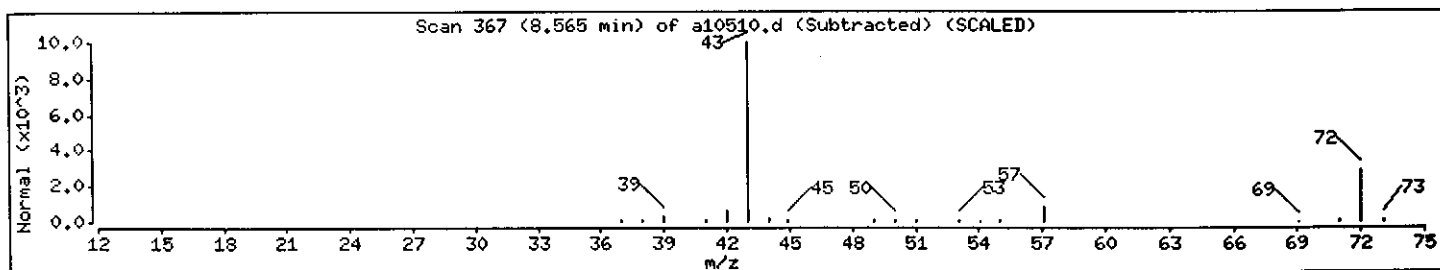
Sample Info: 237826;;4.2;5.03;5

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Butanone	78-93-3	WILEY138.1	116393	64	C4H8O	72
Butanal	123-72-8	WILEY138.1	116385	42	C4H8O	72



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10510.d

Date : 31-OCT-2000 15:41

Client ID: RC-2_3rd_Flr

Sample Info: 237826;;4.2;5.03;5

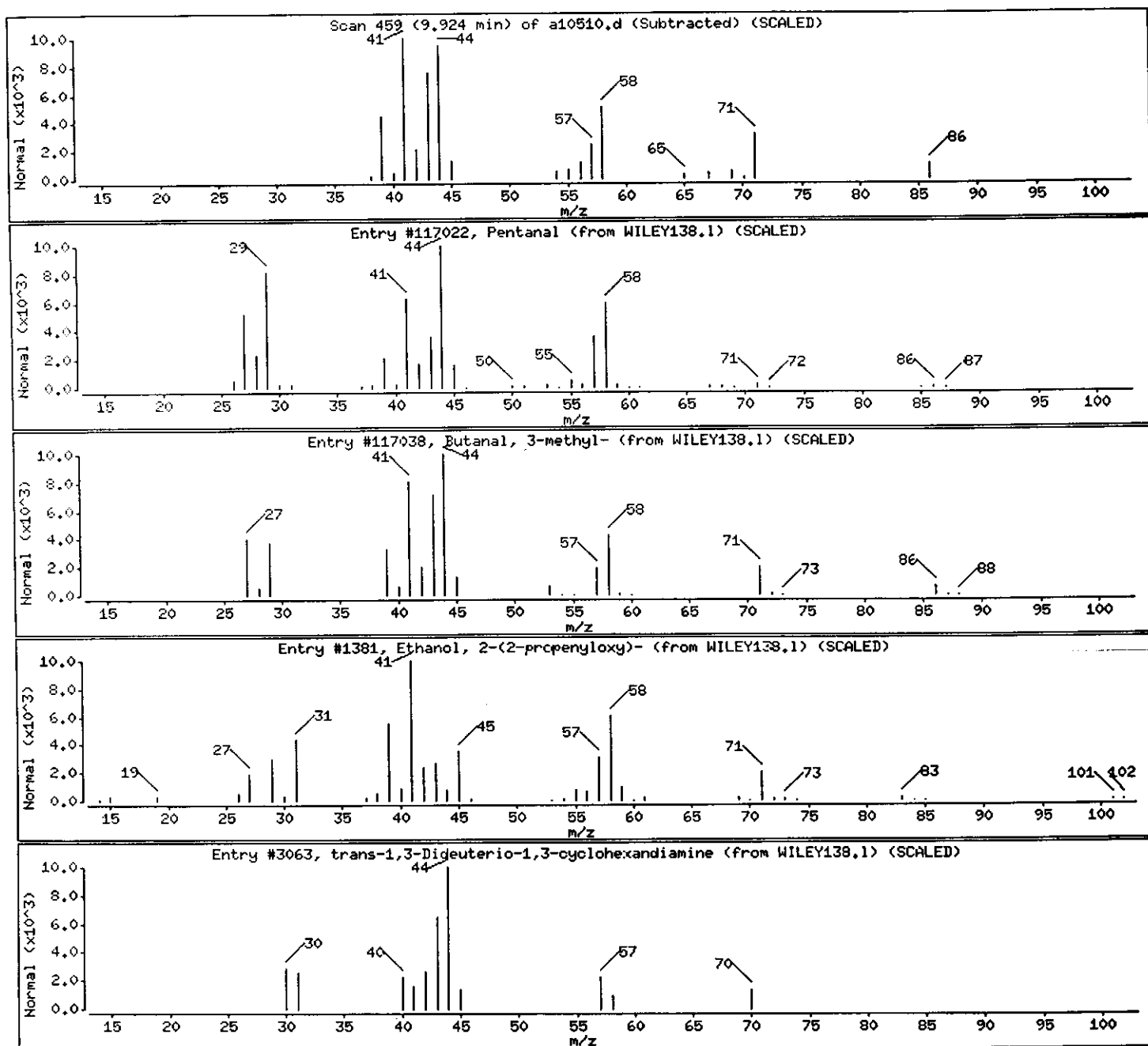
Instrument: VOAMS1.i

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Pentanal	110-62-3	WILEY138.1	117022	25	C5H10O	86
C5H10O Ketone	590-86-3	WILEY138.1	117038	91	C5H10O	86
Ethanol, 2-(2-propenyloxy)-	111-45-5	WILEY138.1	1381	23	C5H10O2	102
trans-1,3-Dideuterio-1,3-cyclohexandiami	70795-42-5	WILEY138.1	3063	23	C6H12D2N2	114



Data File: /chem/VOAMS1.1/8260LOW_SP/10-20-00/31oct00.b/a10510.d

Date : 31-OCT-2000 15:41

Client ID: RC-2_3rd_Flr

Instrument: VOAMS1.1

Sample Info: 237826;;4.2;5.03;5

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match

C5H10O Ketone

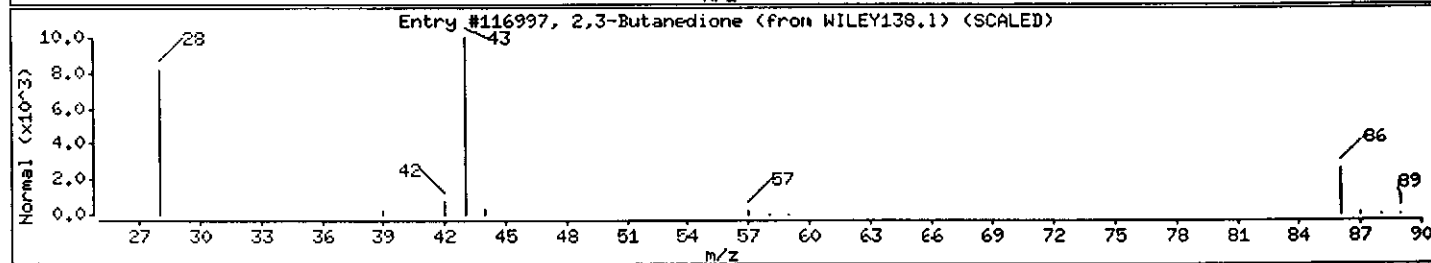
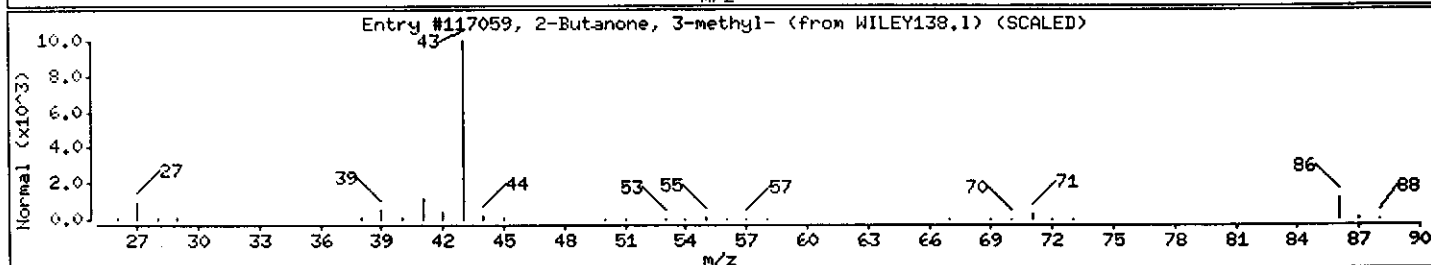
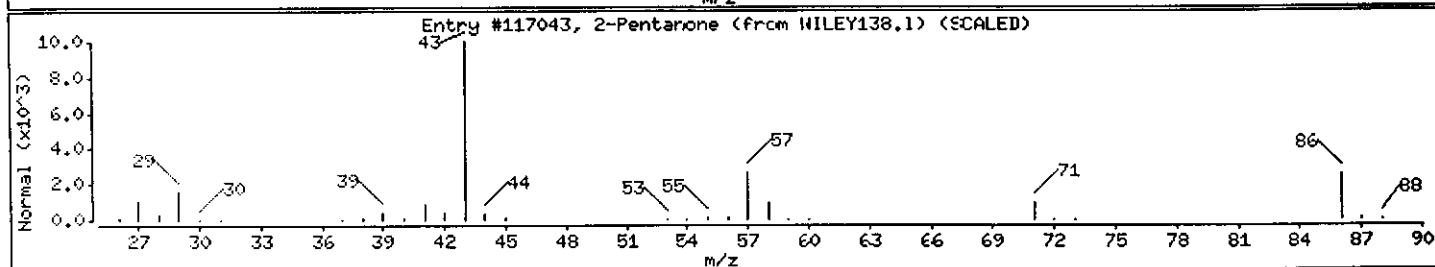
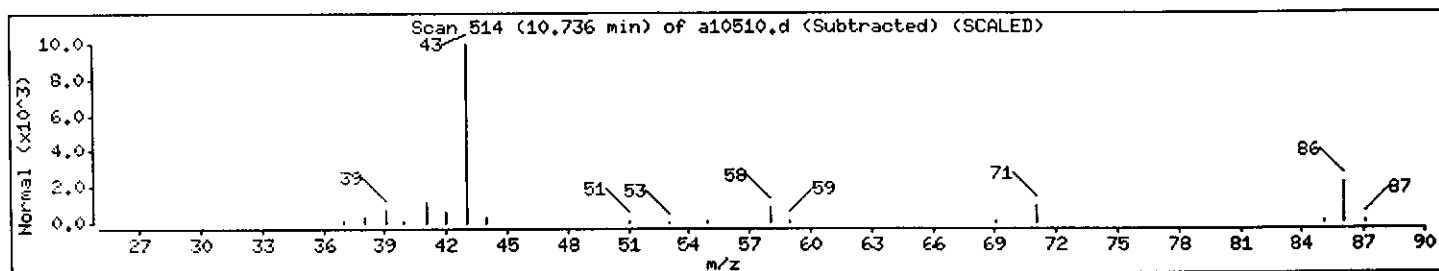
2-Pentanone

2-Butanone, 3-methyl-

2,3-Butanedione

Unknown Ketone

CAS Number	Library	Entry	Quality	Formula	Weight
107-87-9	WILEY138.1	117043	86	C5H10O	86
563-80-4	WILEY138.1	117059	64	C5H10O	86
431-03-8	WILEY138.1	116997	53	C4H6O2	86
		0	0		0



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10510.d

Date : 31-OCT-2000 15:41

Client ID: RC-2_3rd_F1r

Instrument: VOAMS1.i

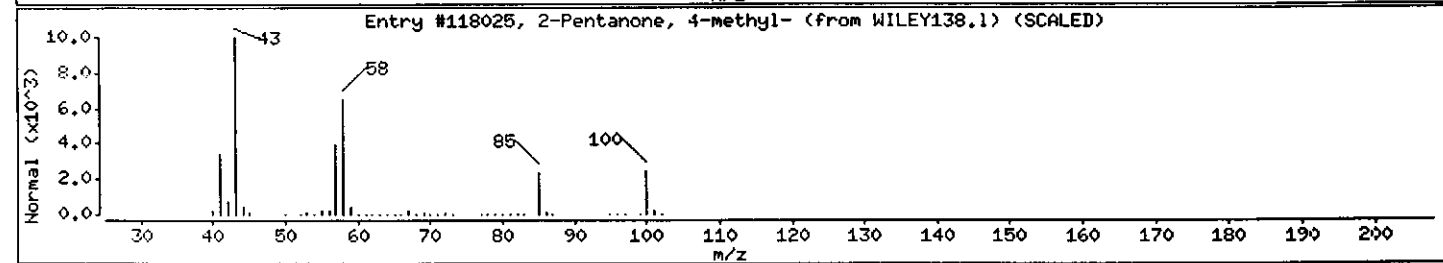
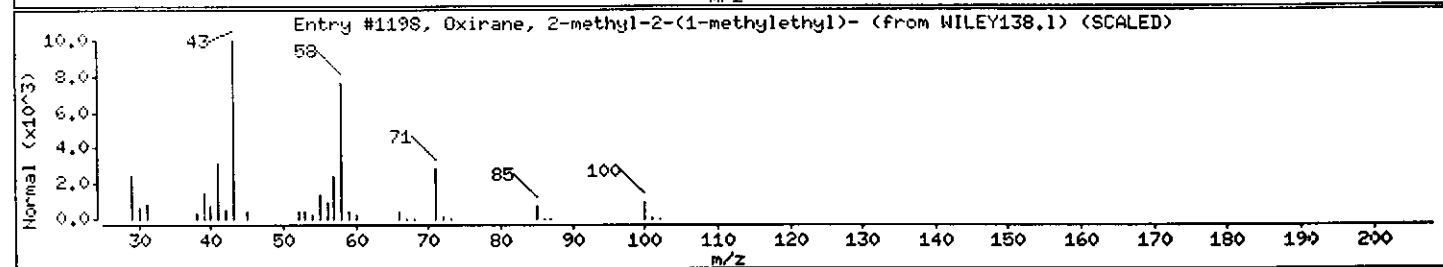
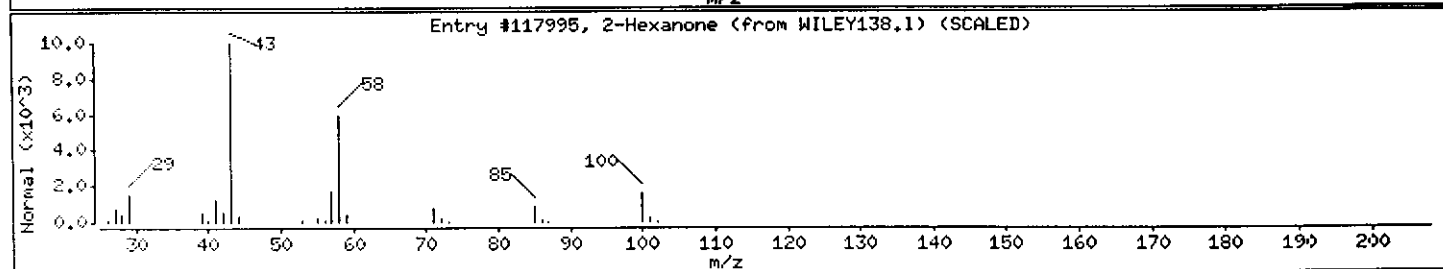
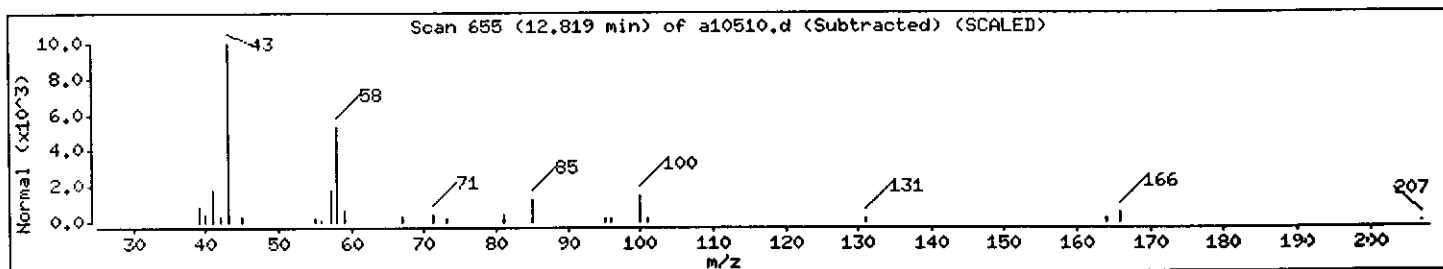
Sample Info: 237826;;4,2;5.03;5

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Hexanone	591-78-6	WILEY138.1	117995	86	C6H12O	100
Oxirane, 2-methyl-2-(1-methylethyl)-	72221-03-5	WILEY138.1	1198	64	C6H12O	100
2-Pentanone, 4-methyl-	108-10-1	WILEY138.1	118025	64	C6H12O	100



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10510.d

Date : 31-OCT-2000 15:41

Client ID: RC-2_3rd_Flr

Instrument: VOAMS1.i

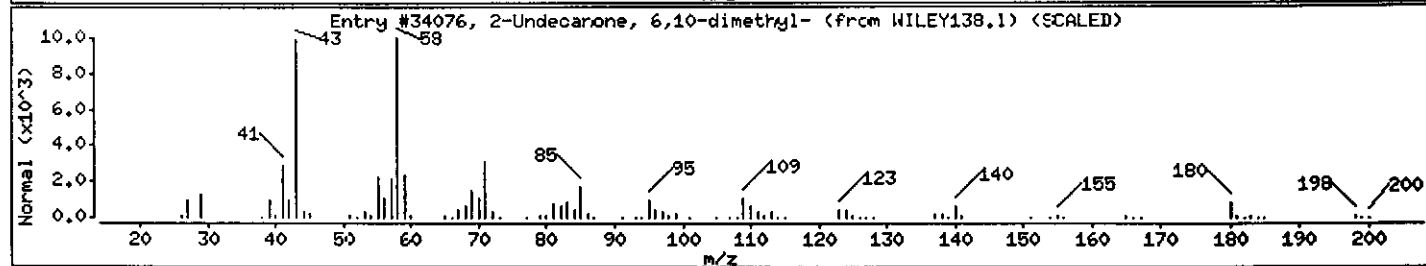
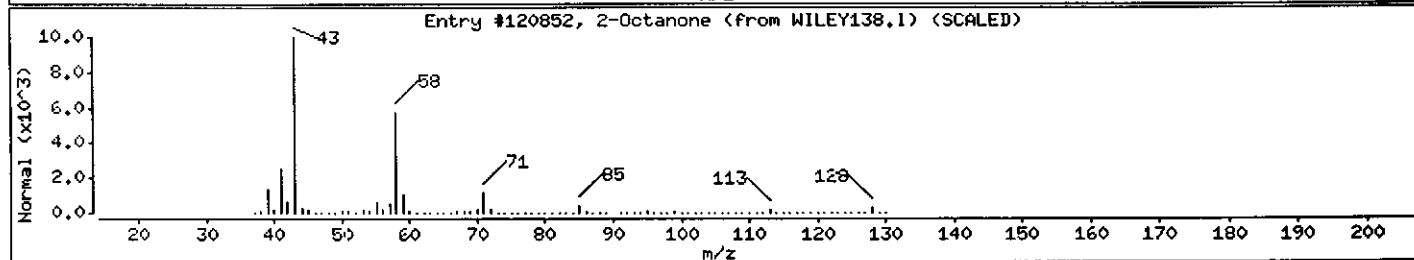
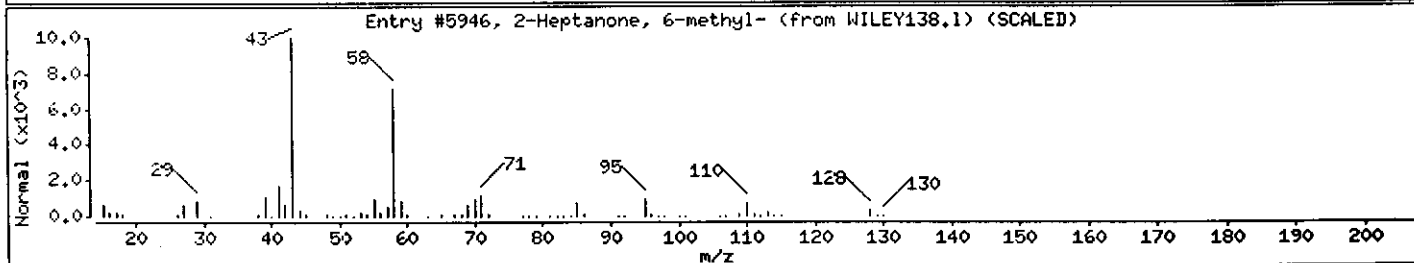
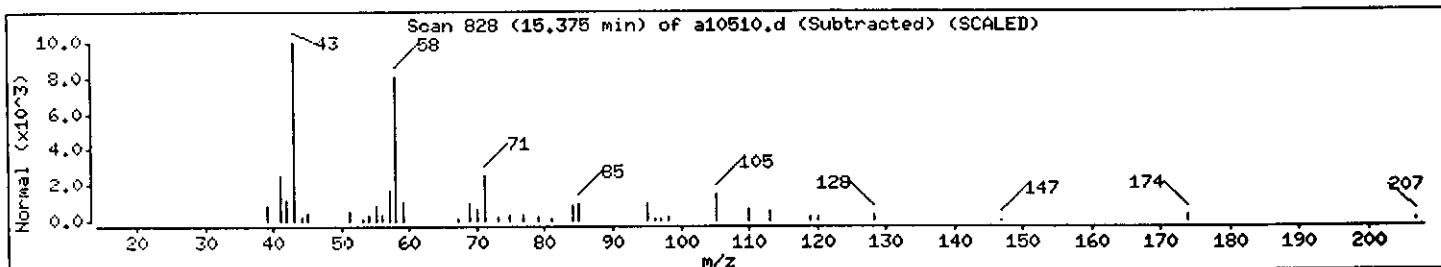
Sample Info: 237826;;4.2;5.03;5

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
C8H16O Ketone			0	0		0
Unknown Ketone						
2-Heptanone, 6-methyl-	928-68-7	WILEY138.1	5946	72	C8H16O	128
2-Octanone	111-13-7	WILEY138.1	120852	50	C8H16O	128
2-Undecanone, 6,10-dimethyl-	1604-34-8	WILEY138.1	34076	50	C13H26O	198



Client ID: RC-3_3rd_Flr
Site: Rexam DSI

Lab Sample No: 237827
Lab Job No: F104

Date Sampled: 10/26/00
Date Received: 10/27/00
Date Analyzed: 10/31/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10511.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.4 g
Purge Volume: 5.0 ml
% Moisture: 7

VOLATILE ORGANICS - GC/MS
METHOD 8260B

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	1.4JB	3.0
Trichlorofluoromethane	5.9	5.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	0.6J	5.0
1,2-Dichloroethane	ND	2.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	2.0
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	ND	1.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	3.0
Benzene	ND	1.0
trans-1,3-Dichloropropene	ND	5.0
2-Chloroethyl Vinyl Ether	ND	5.0
Bromoform	ND	4.0
Tetrachloroethene	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	2.6J	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	4.0
Xylene (Total)	ND	5.0

Client ID: RC-3_3rd_Flr
Site: Rexam DSI

Lab Sample No: 237827
Lab Job No: F104

Date Sampled: 10/26/00
Date Received: 10/27/00
Date Analyzed: 10/31/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10511.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.4 g
Purge Volume: 5.0 ml
% Moisture: 6.8

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. 2-Propanone	6.08	5.4	
2. Unknown Alkane/C9H12 Aromatic	15.41	6.2	
3. Coeluting Unknowns	16.14	6.5	
4. Coeluting Unknowns	17.71	7.9	
5. 2,3-dihydro-methyl-1H-Indene isomer	18.04	13	
6. 2,3-dihydro-dimethyl-1H-Indene isomer	18.58	7.6	
7. Naphthalene	18.89	7.5	
8. Tetrahydromethylnaphthalene isomer	19.04	9.2	
9. Tetrahydromethylnaphthalene isomer	19.51	6.6	
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TOTAL ESTIMATED CONCENTRATION

70

Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10511.d
Report Date: 01-Nov-2000 17:15

STL Envirotech

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10511.d
Lab Smp ID: 237827 Client Smp ID: RC-3_3rd_Flr
Inj Date : 31-OCT-2000 16:10
Operator : VOAMS 8 Inst ID: VOAMS1.i
Smp Info : 237827;;6.8;5.37;5
Misc Info : F104;1918;FM
Comment :
Method : /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/8260L_00.m
Meth Date : 31-Oct-2000 13:55 ken Quant Type: ISTD
Cal Date : 20-OCT-2000 18:54 Cal File: a10343.d
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPVOA.sub
Target Version: 3.50

Concentration Formula: $\text{Amt} * \text{DF} * ((\text{Vt}/\text{Ws}) / ((100-\text{M})/100)) * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	5.00000	Volume of final extract (mL)
Ws	5.37000	Weight of sample extracted (g)
M	6.80000	% Moisture (not decanted)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)
9 Trichlorofluoromethane	101	5.226	5.179	(0.516)	133532	5.91945	5.9
6 Methylene Chloride	84	6.748	6.701	(0.666)	16430	1.43082	1.4 (a)
15 Chloroform	83	9.008	8.976	(0.889)	15657	0.63828	0.64 (a)
\$ 16 1,2-Dichloroethane-d4 (SUR)	65	9.688	9.655	(0.956)	727078	72.1302	72 (R)
* 19 Fluorobenzene	96	10.131	10.113	(1.000)	1690524	50.0000	
\$ 37 Toluene-d8 (SUR)	98	12.067	12.049	(0.877)	713089	68.8904	69 (R)
38 Toluene	91	12.170	12.137	(0.884)	31712	2.56848	2.6 (a)
* 32 Chlorobenzene-d5	117	13.766	13.748	(1.000)	533955	50.0000	
\$ 41 Bromofluorobenzene (SUR)	174	15.051	15.033	(0.924)	245290	67.5793	68
* 91 1,4-Dichlorobenzene-d4	152	16.292	16.274	(1.000)	164734	50.0000	

QC Flag Legend

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

Confirmed by 10517.

Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10511.d
Report Date: 01-Nov-2000 17:15

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /chem/VOAHS1.i/8260LDM_SP/10-20-00/31oct00.b/a10511.d

Date : 31-OCT-2000 16:10

Client ID: RC-3_3rd_Flr

Sample Info: 237827;16.8;5.37;5

Column phase: DB624

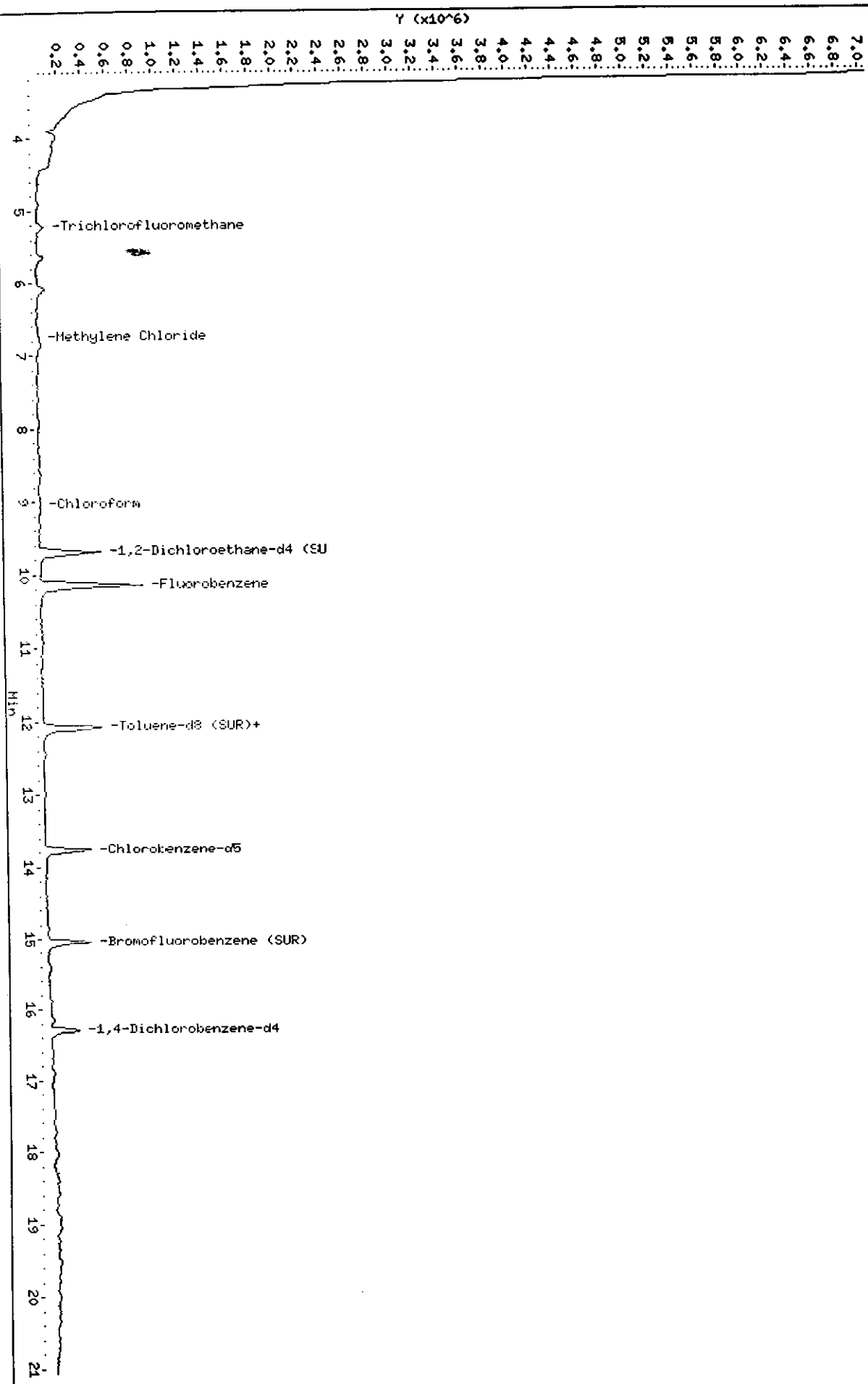
Instrument: VOAHS1.i

Operator: VOAHS 8

Column diameter: 0.53

147

/chem/VOAHS1.i/8260LDM_SP/10-20-00/31oct00.b/a10511.d



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10511.d

Date : 31-OCT-2000 16:10

Client ID: RC-3_3rd_Flr

Sample Info: 237827;;6.8;5.37;5

Instrument: VOAMS1.i

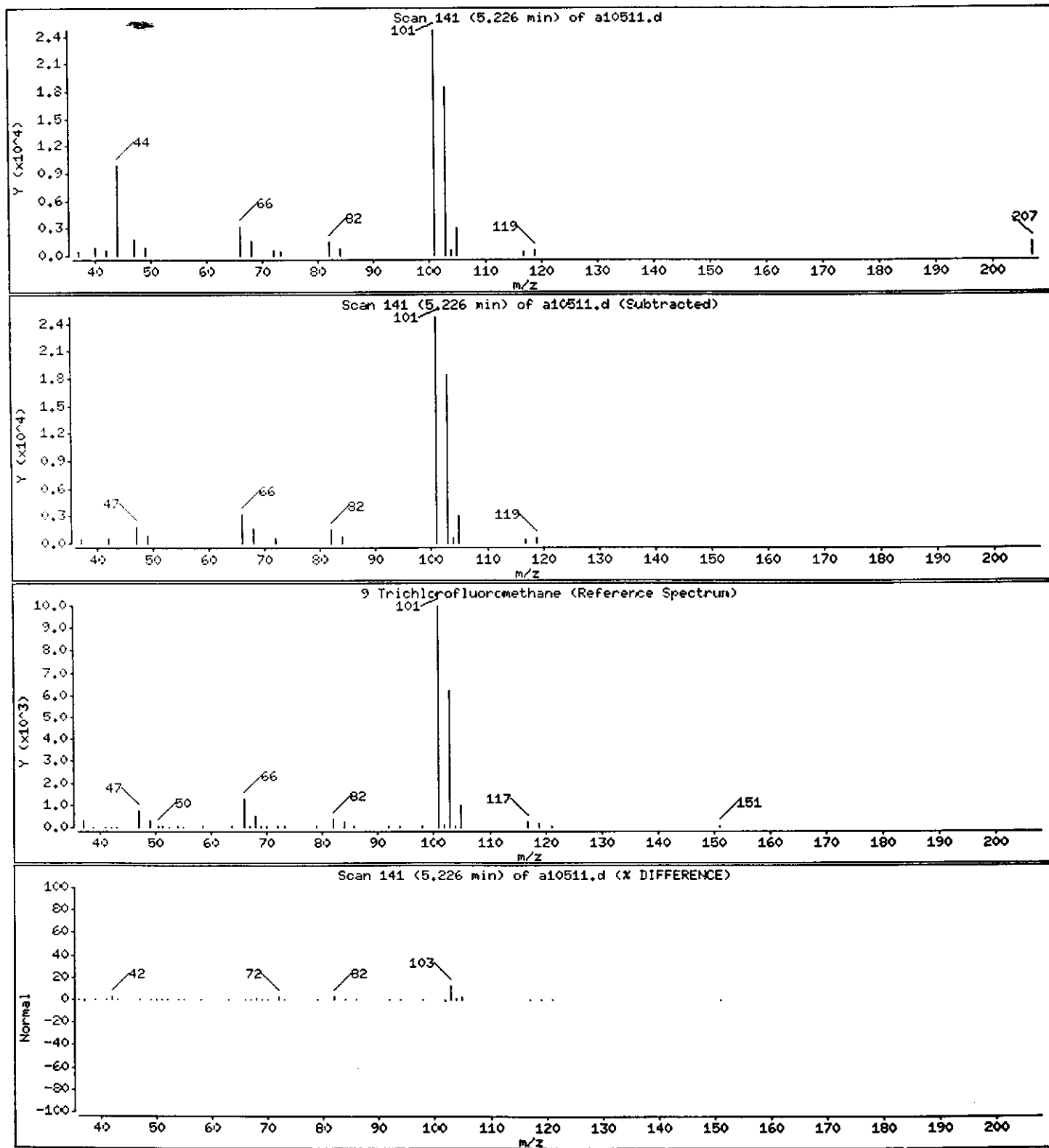
Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

9 Trichlorofluoromethane

Concentration: 5.9 ug/Kg



Data File: /chem/VOAMS1.i/8260LOW_SP/19-20-00/31oct00.b/a10511.d

Date : 31-OCT-2000 16:10

Client ID: RC-3_3rd_Flr

Sample Info: 237827;;6.8;5.37;5

Instrument: VOAMS1.i

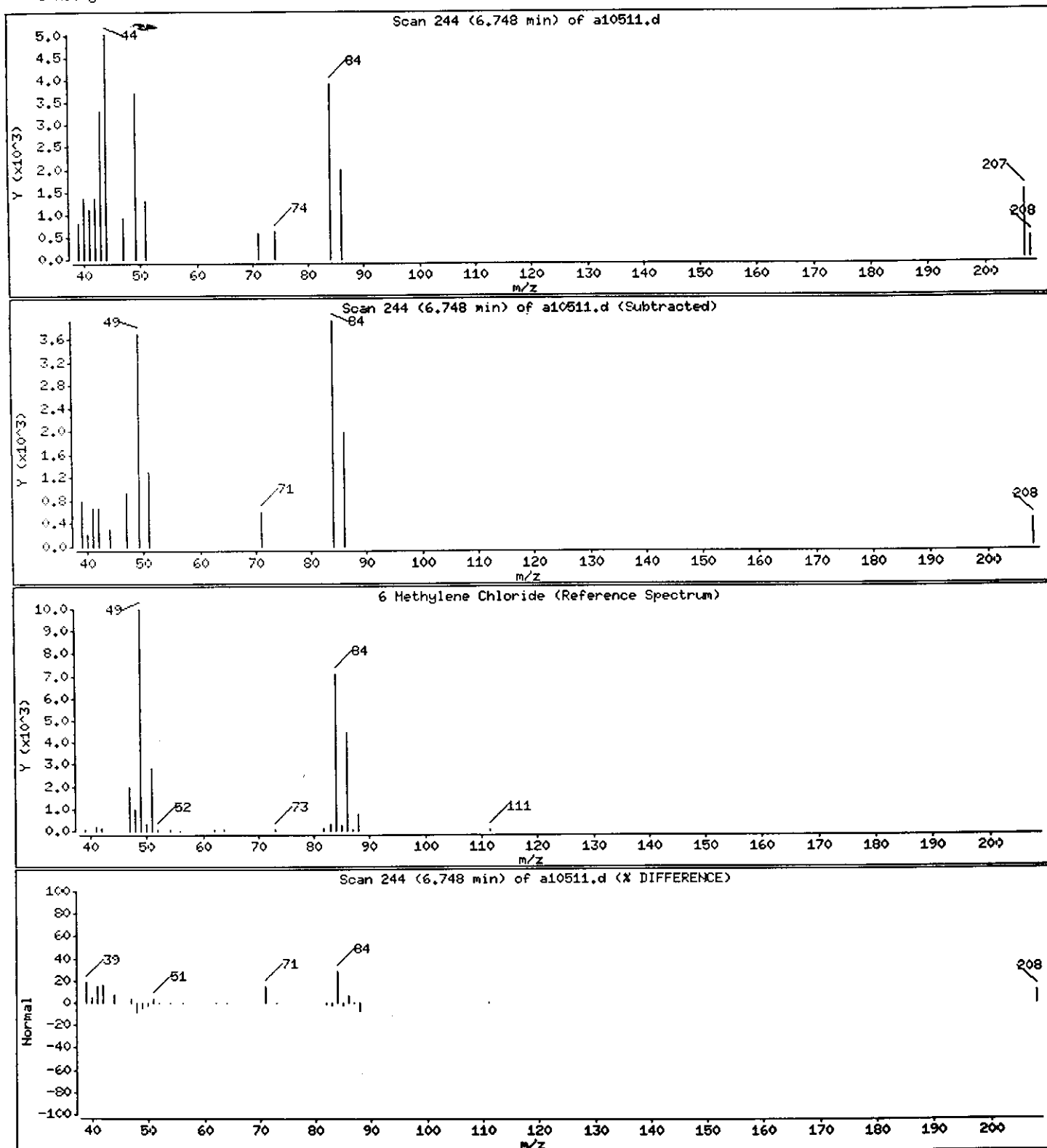
Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

6 Methylene Chloride

Concentration: 1.4 ug/Kg



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10511.d

Date : 31-OCT-2000 16:10

Client ID: RC-3_3rd_Flr

Sample Info: 237827;;6.8;5.37;5

Instrument: VOAMS1.i

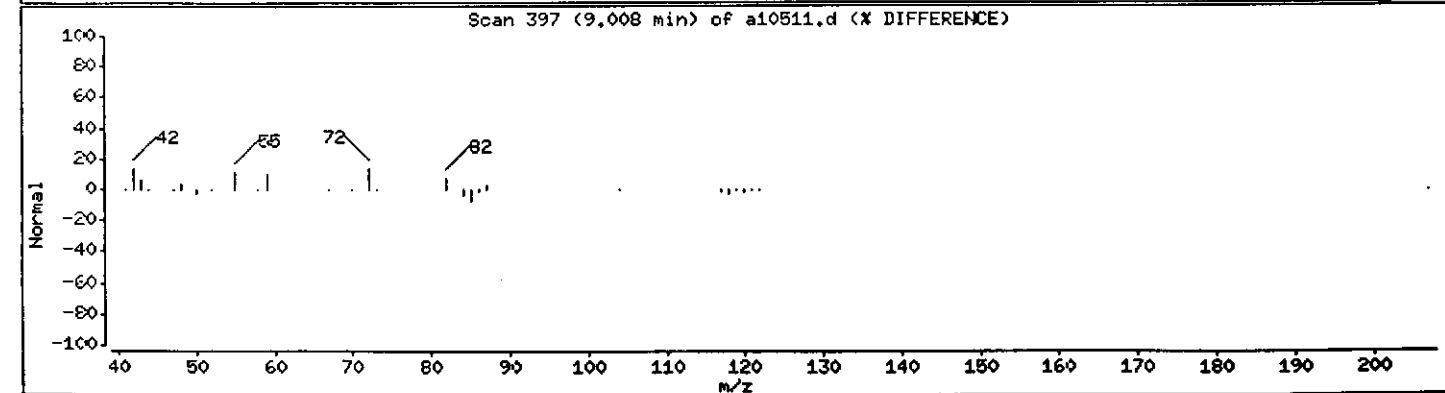
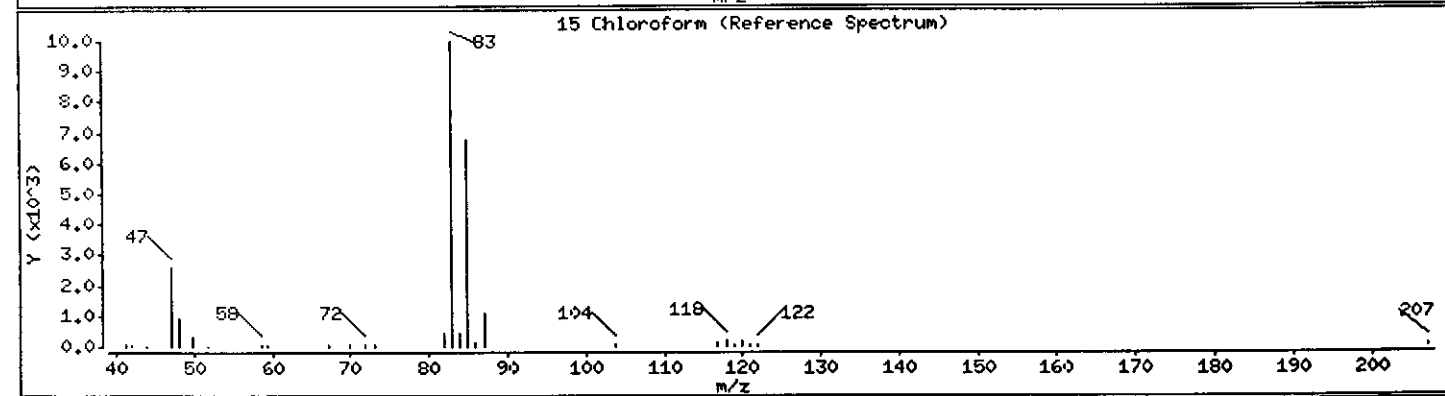
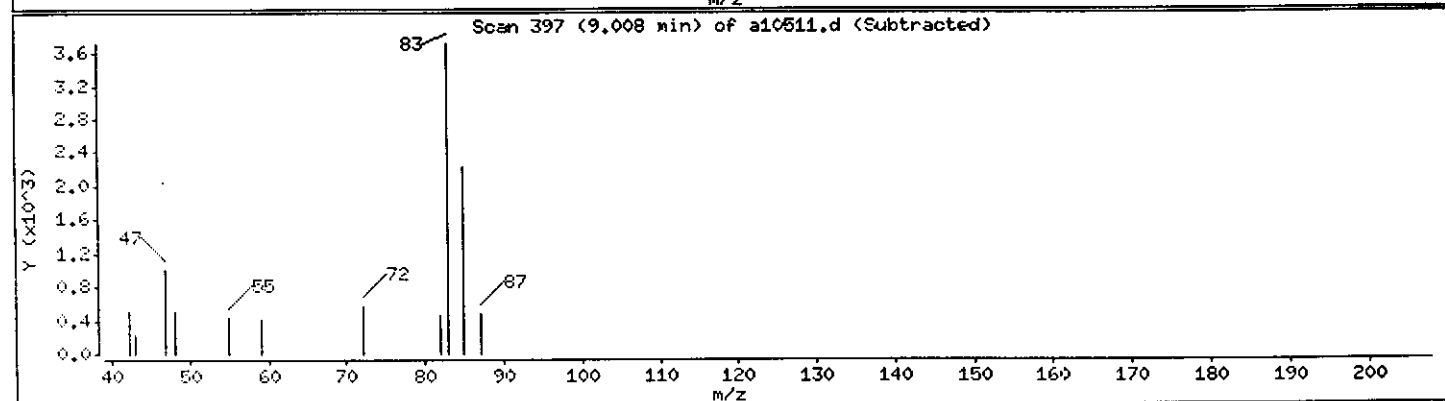
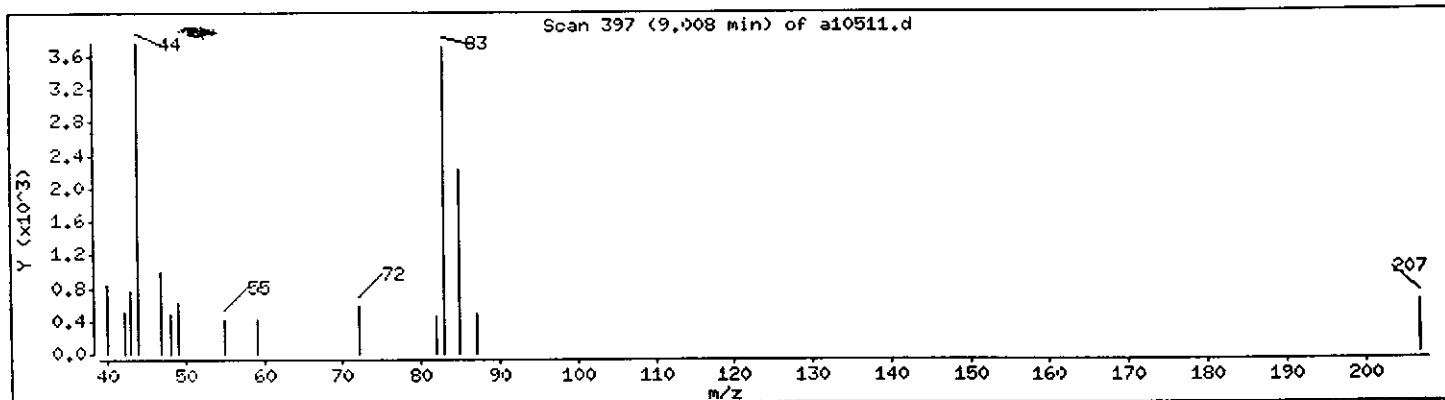
Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

15 Chloroform

Concentration: 0.64 ug/Kg



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10511.d

Date : 31-OCT-2000 16:10

Client ID: RC-3_3rd_Flr

Instrument: VOAMS1.i

Sample Info: 237827;;6.8;5.37;5

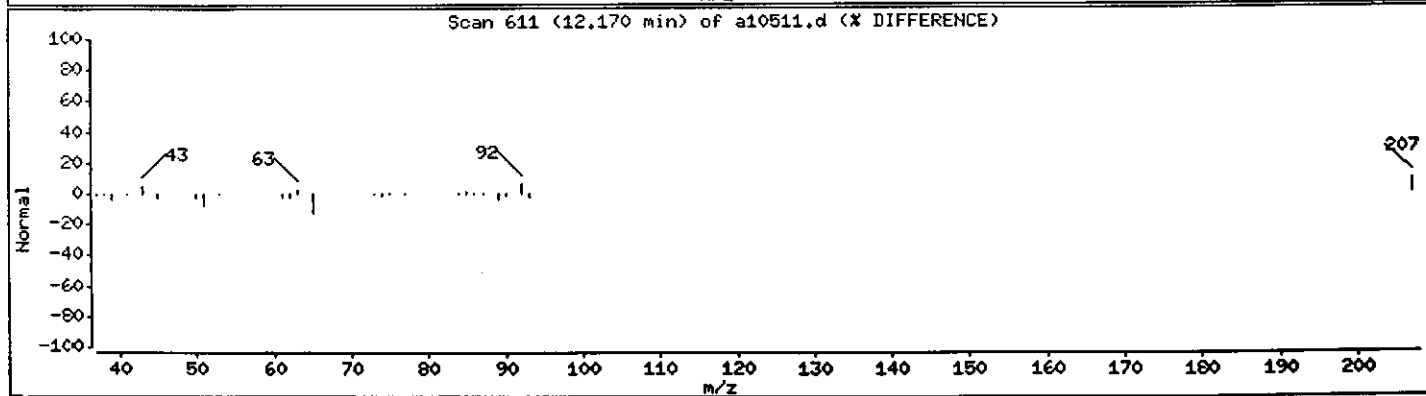
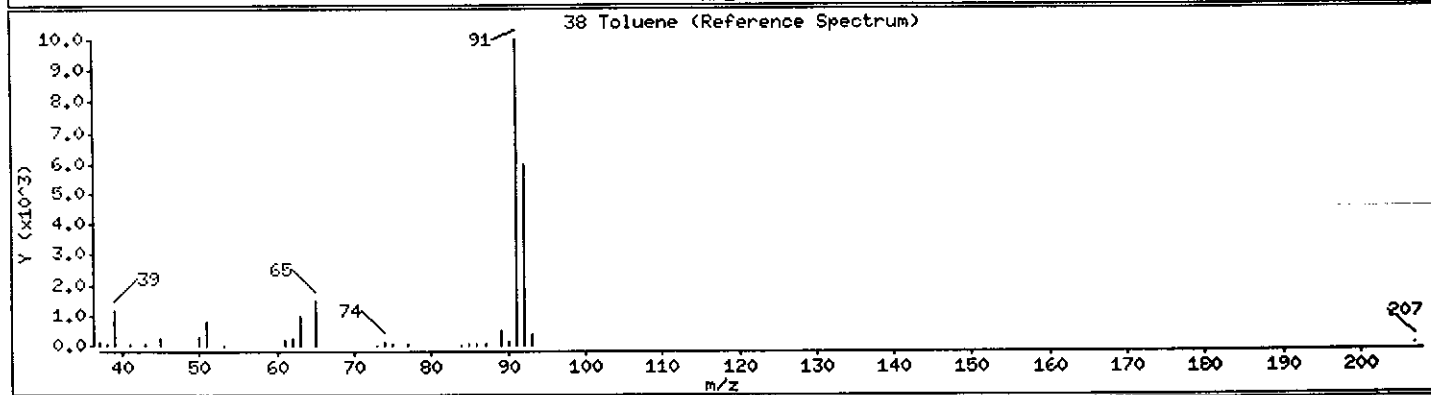
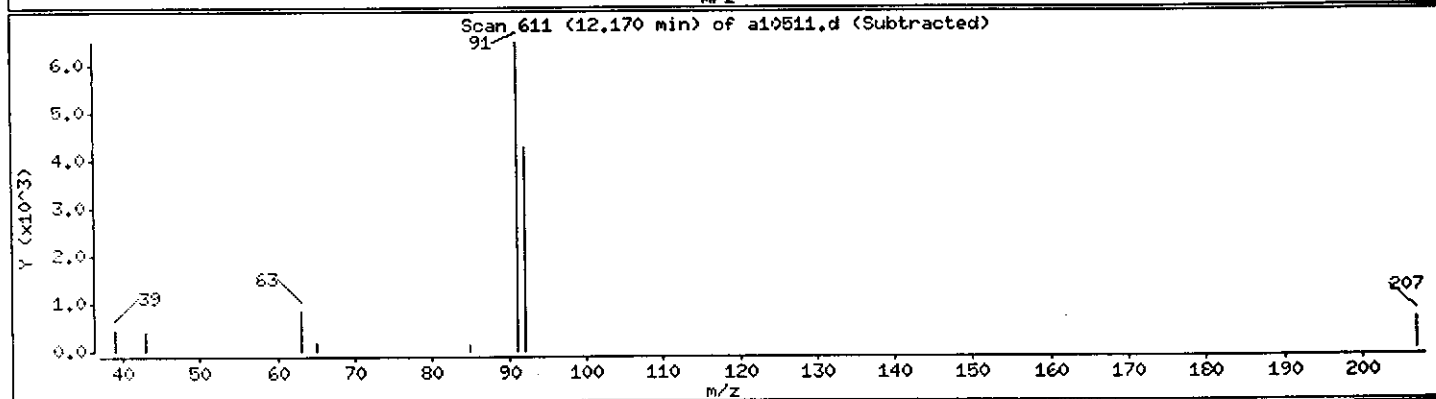
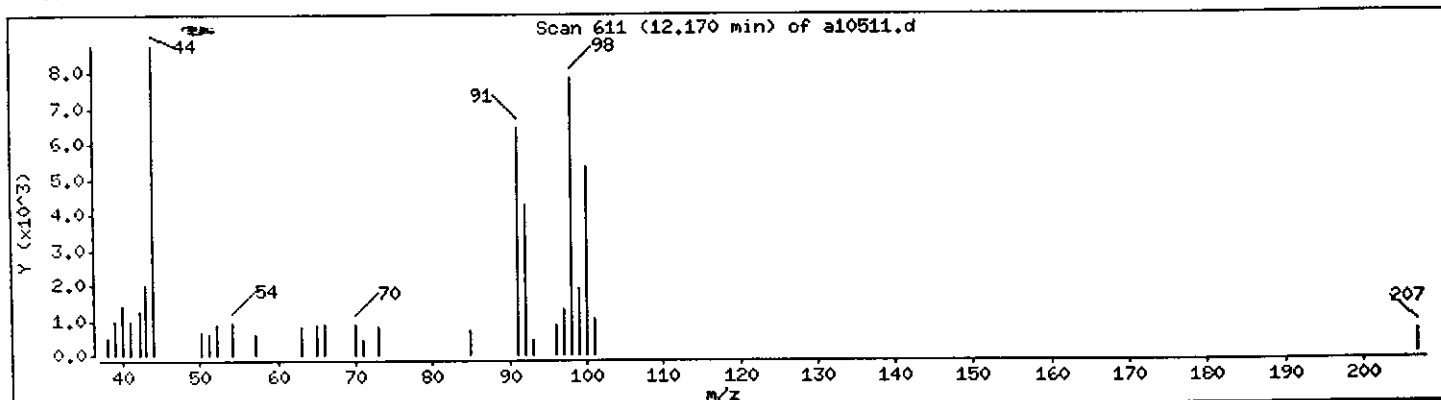
Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

38 Toluene

Concentration: 2.6 ug/Kg



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10511.d

Date : 31-OCT-2000 16:10

Client ID: RC-3_3rd_Flr

Instrument: VOAMS1.i

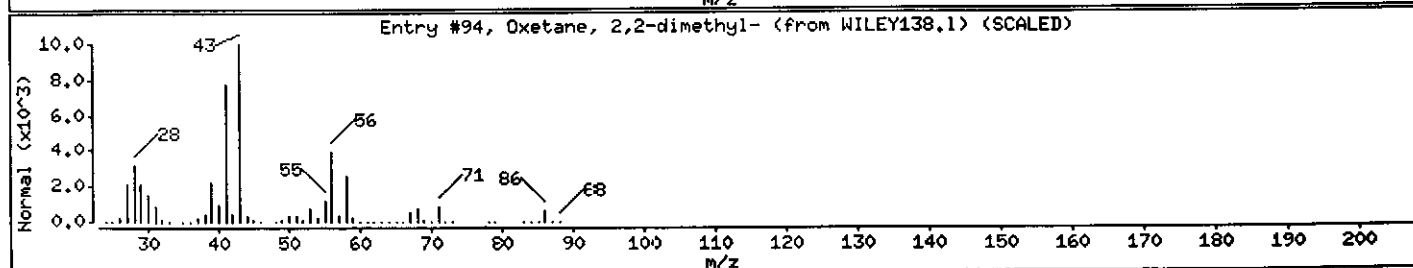
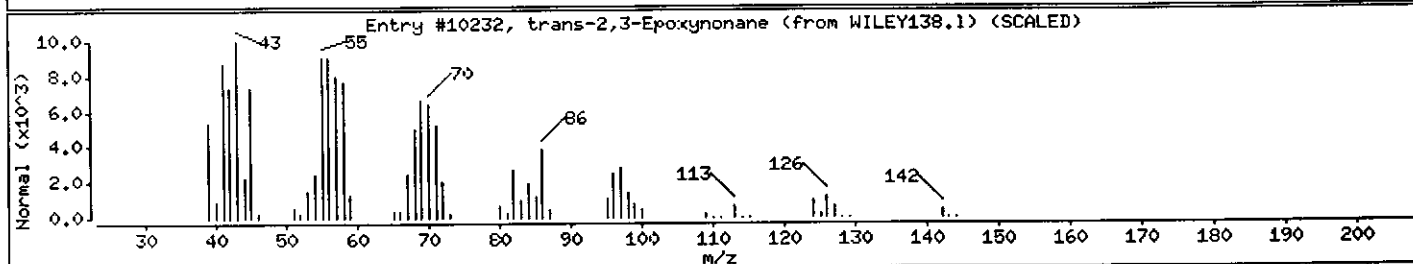
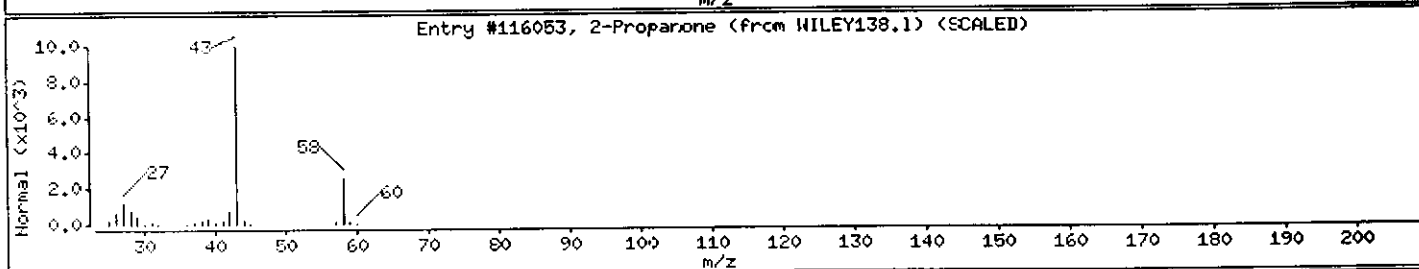
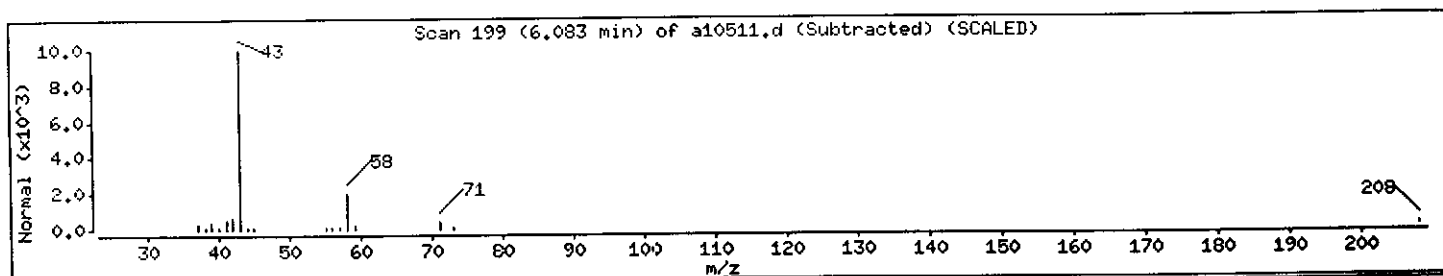
Sample Info: 237827;;6.8;5.37;5

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Propanone	67-64-1	WILEY138.1	116053	9	C3H6O	58
Unknown			0	0		0
trans-2,3-Epoxy-nonane	56820-01-0	WILEY138.1	10232	9	C9H18O	142
Oxetane, 2,2-dimethyl-	6245-99-4	WILEY138.1	94	9	C5H10O	86



Data File: /chem/VOAMS1.1/8260LOW_SP/10-20-00/31oct00.b/a10511.d

Date : 31-OCT-2000 16:10

Client ID: RC-3_3rd_Flr

Sample Info: 237827;;6.8;5.37;5

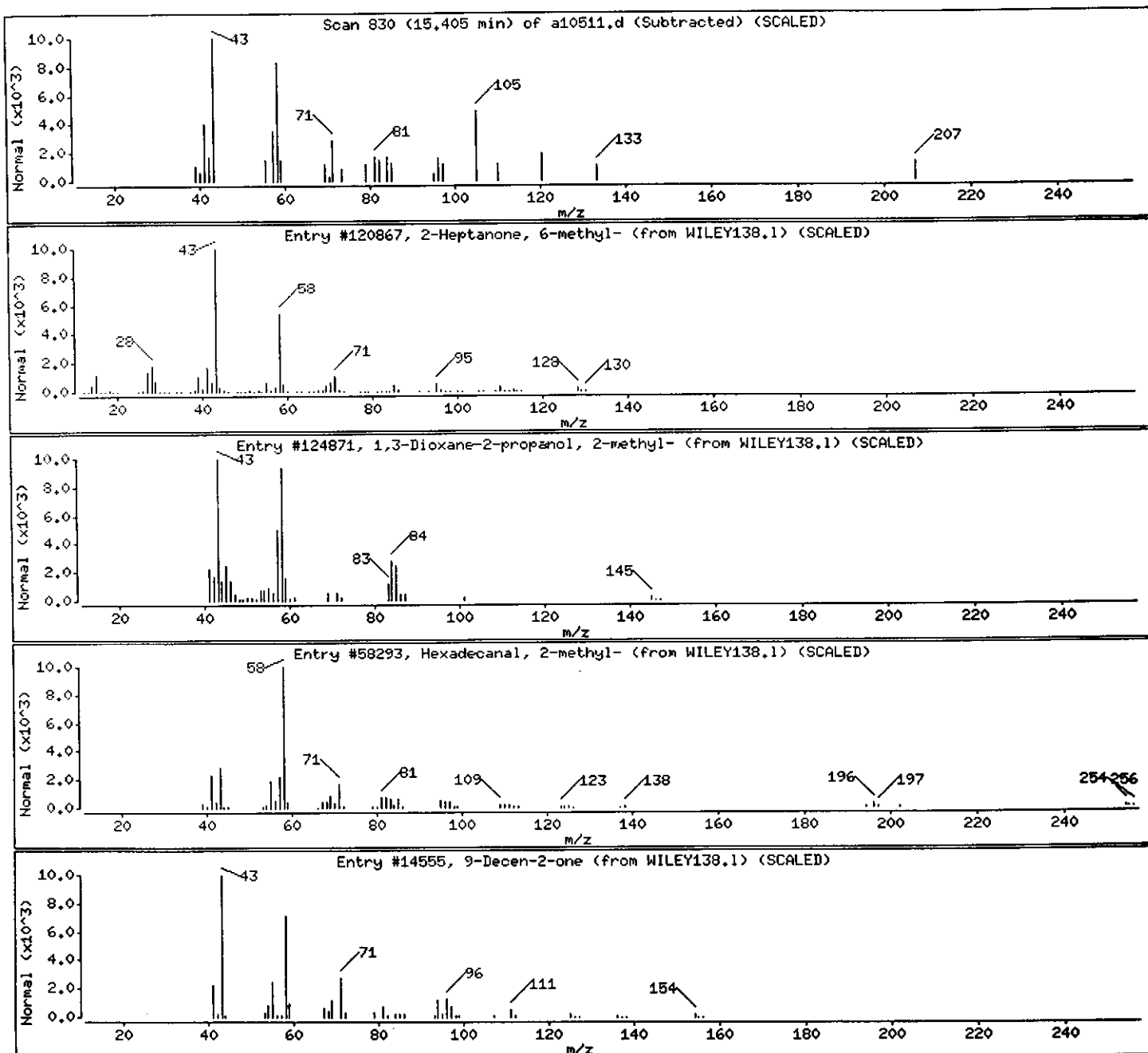
Instrument: VOAMS1.i

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane/C9H12 Aromatic						
2-Heptanone, 6-methyl-	928-68-7	WILEY138.1	120867	43	C8H16O	128
1,3-Dioxane-2-propanol, 2-methyl-	36651-31-7	WILEY138.1	124871	43	C8H16O3	160
Hexadecanal, 2-methyl-	55019-46-0	WILEY138.1	58293	42	C17H34O	254
9-Decen-2-one	35194-30-0	WILEY138.1	14555	38	C10H18O	154



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10511.d

Date : 31-OCT-2000 16:10

Client ID: RC-3_3rd_Flr

Instrument: VOAMS1.i

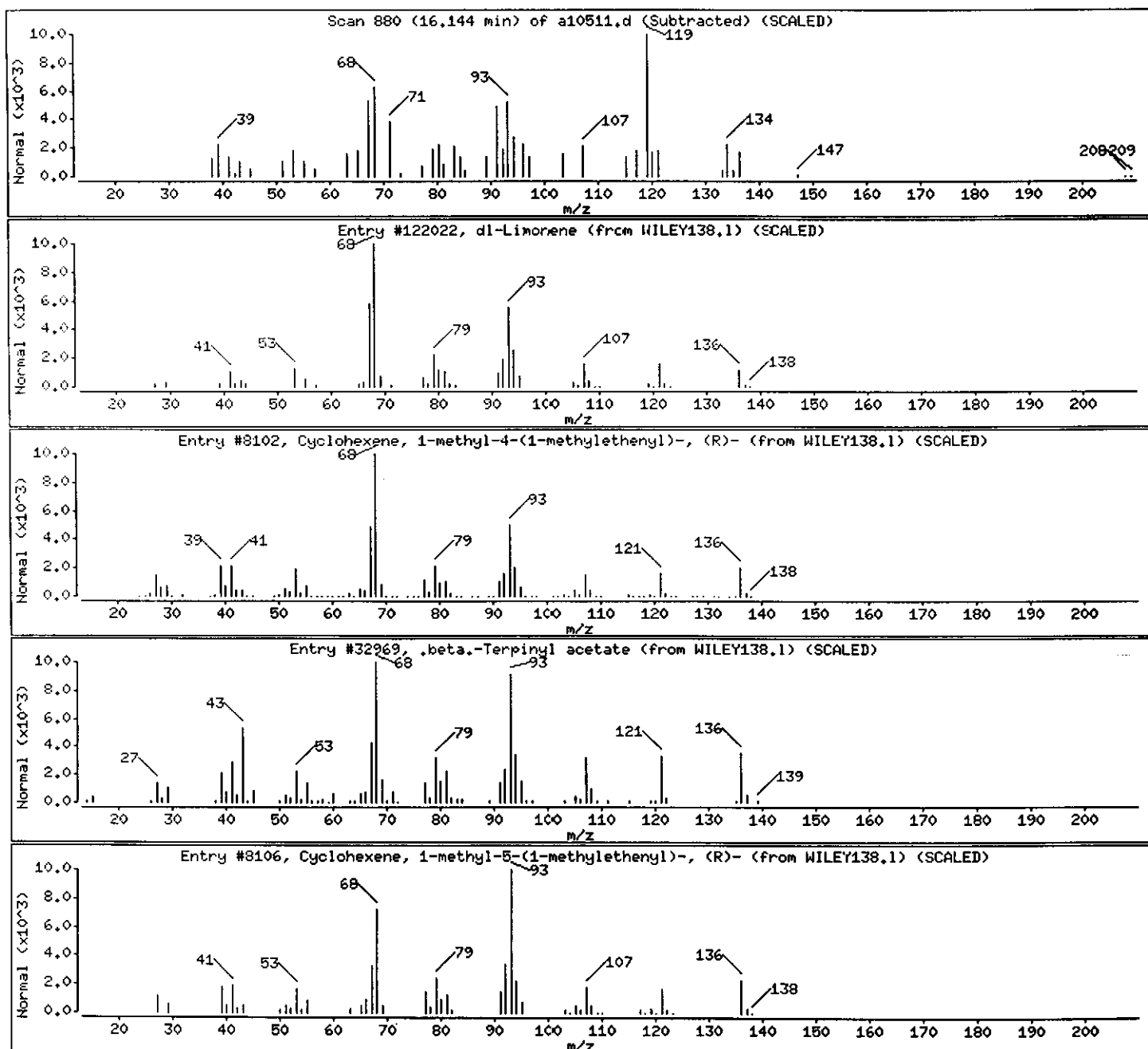
Sample Info: 237827;;6.8;5.37;5

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Coeluting Unknowns						
dl-Limonene	138-86-3	WILEY138.1	122022	70	C10H16	136
Cyclohexene, 1-methyl-4-(1-methylethenyl)	5989-27-5	WILEY138.1	8102	50	C10H16	136
.beta.-Terpinyl acetate	10198-23-9	WILEY138.1	32969	35	C12H20O2	196
Cyclohexene, 1-methyl-5-(1-methylethenyl)	1461-27-4	WILEY138.1	8106	30	C10H16	136



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10511.d

Date : 31-OCT-2000 16:10

Client ID: RC-3_3rd_Flr

Instrument: VOAMS1.i

Sample Info: 237827;;6.8;5.37;5

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match

CAS Number

Library

Entry

Quality Formula

Weight

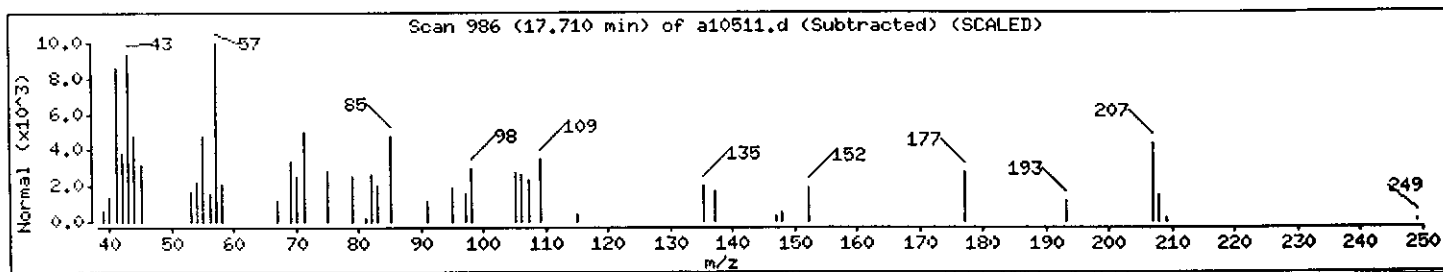
Coeluting Unknowns

Unknown

0

0

0



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10511.d

Date : 31-OCT-2000 16:10

Client ID: RC-3_3rd_Flr

Instrument: VOAMS1.i

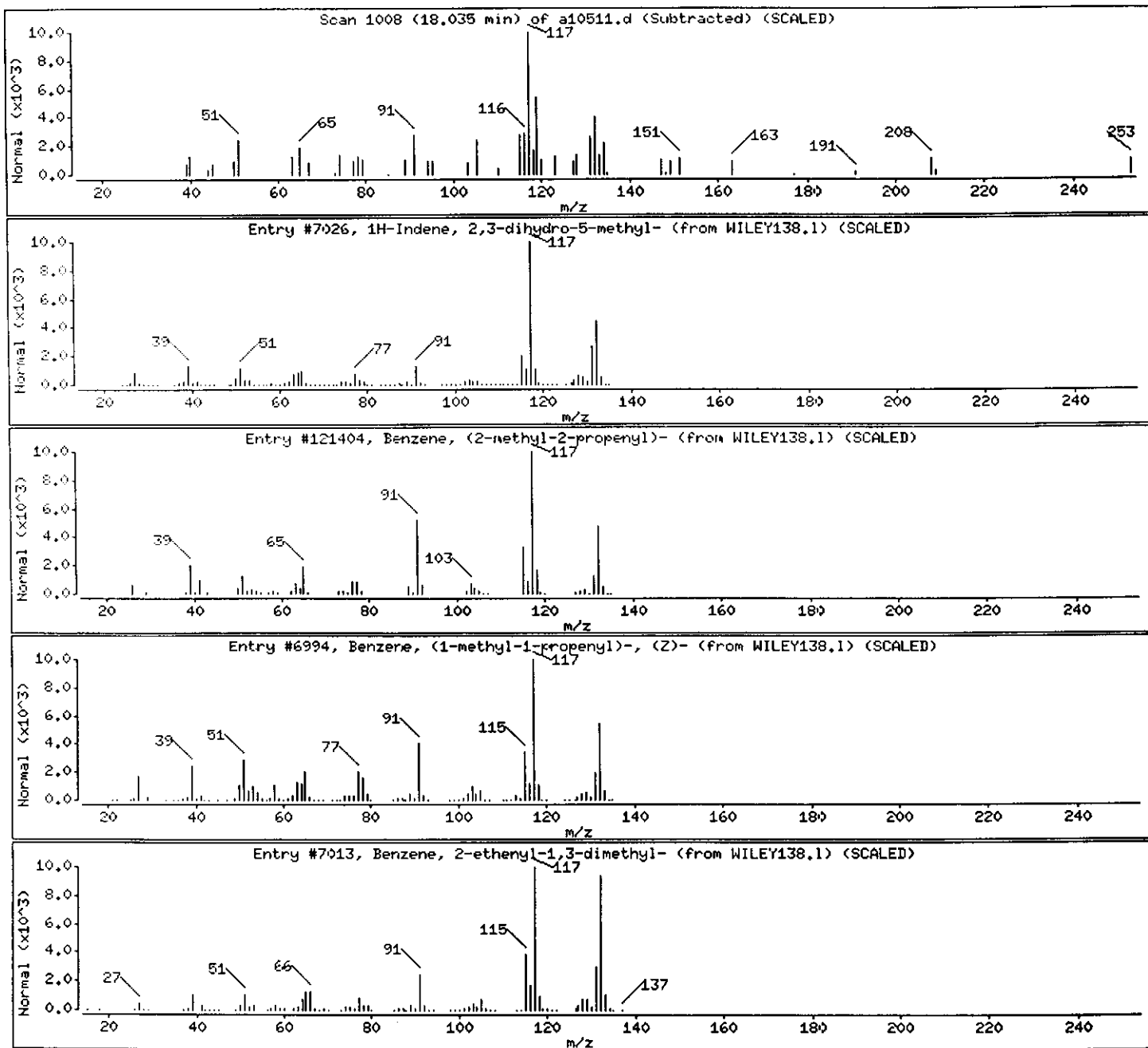
Sample Info: 237827;;6.8;5.37;5

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2,3-dihydro-methyl-1H-Indene isomer						
1H-Indene, 2,3-dihydro-5-methyl-	874-35-1	WILEY138.1	7026	46	C10H12	132
Benzene, (2-methyl-2-propenyl)-	3290-53-7	WILEY138.1	121404	43	C10H12	132
Benzene, (1-methyl-1-propenyl)-, (Z)-	767-99-7	WILEY138.1	6994	43	C10H12	132
Benzene, 2-ethenyl-1,3-dimethyl-	2039-90-9	WILEY138.1	7013	43	C10H12	132



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10511.d

Date : 31-OCT-2000 16:10

Client ID: RC-3_3rd_Flr

Instrument: VOAMS1.i

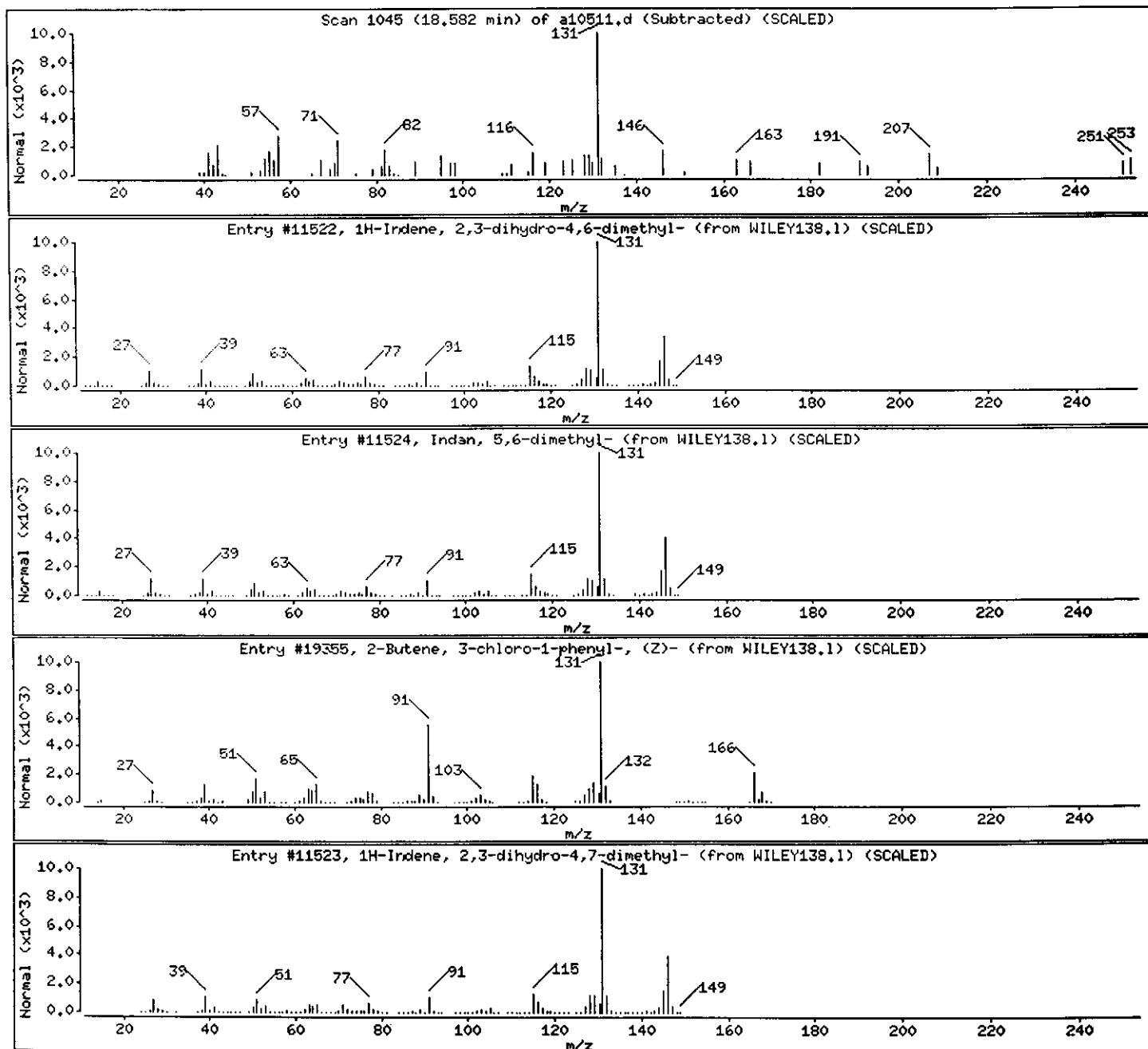
Sample Info: 237827;;6.8;5.37;5

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2,3-dihydro-dimethyl-1H-Indene isomer						
1H-Indene, 2,3-dihydro-4,6-dimethyl-	1685-82-1	WILEY138.1	11522	50	C11H14	146
Indan, 5,6-dimethyl-	1075-22-5	WILEY138.1	11524	50	C11H14	146
2-Butene, 3-chloro-1-phenyl-, (Z)-	16608-68-7	WILEY138.1	19355	50	C10H11Cl	166
1H-Indene, 2,3-dihydro-4,7-dimethyl-	6682-71-9	WILEY138.1	11523	50	C11H14	146



Data File: /chem/VOAMS1.1/8260LOW_SP/10-20-00/31oct00.b/a10511.d

Date : 31-OCT-2000 16:10

Client ID: RC-3_3rd_Flr

Instrument: VOAMS1.1

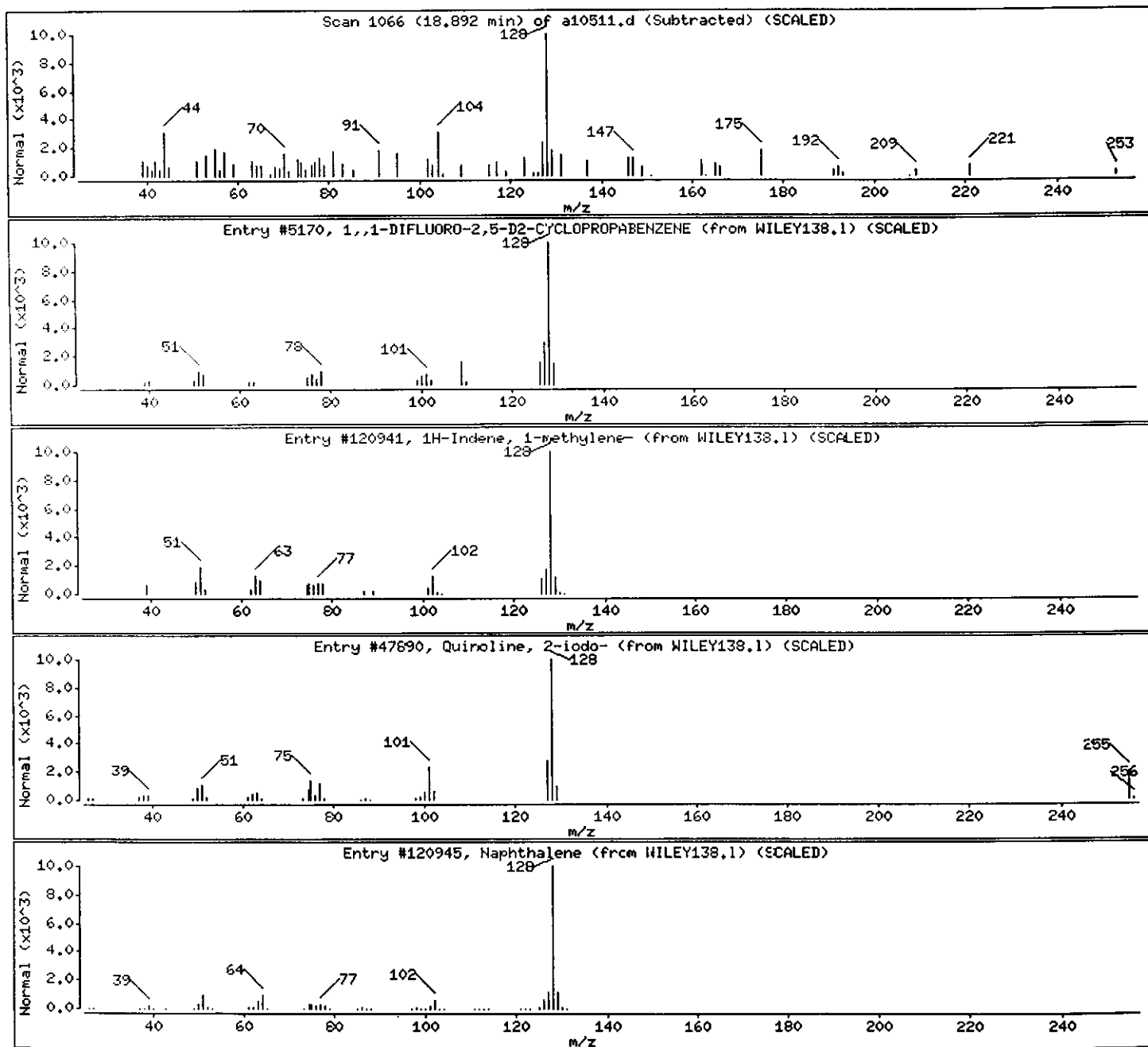
Sample Info: 237827;;6.8;5.37;5

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Naphthalene						
1,1-DIFLUORO-2,5-D2-CYCLOPROPABENZENE	0-00-0	WILEY138.1	5170	43	C7H2D2F2	126
1H-Indene, 1-methylene-	2471-84-3	WILEY138.1	120941	37	C10H8	128
Quinoline, 2-iodo-	6560-83-4	WILEY138.1	47890	37	C9H6In	229
Naphthalene	91-20-3	WILEY138.1	120945	35	C10H8	128



Data File: /chem/VOAMS1.1/826LOW_SP/10-20-00/31oct00,b/a10511.d

Date : 31-OCT-2000 16:10

Client ID: RC-3_3rd_F1r

Instrument: VOAMS1.1

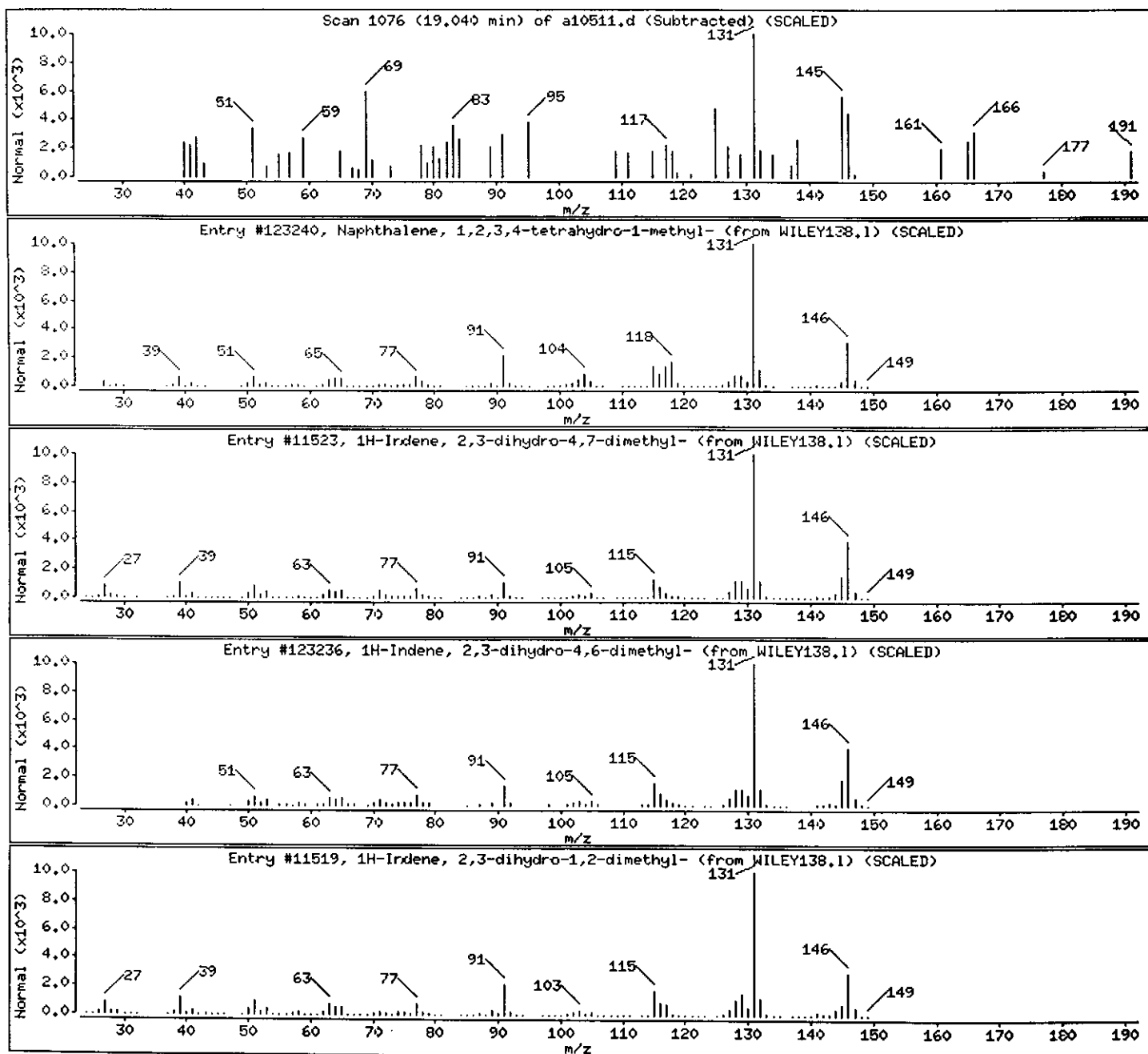
Sample Info: 237827;;6.8;5.37;5

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Tetrahydromethylnaphthalene isomer						
Naphthalene, 1,2,3,4-tetrahydro-1-methyl	1559-81-5	WILEY138.1	123240	27	C11H14	146
1H-Indene, 2,3-dihydro-4,7-dimethyl-	6682-71-9	WILEY138.1	11523	27	C11H14	146
1H-Indene, 2,3-dihydro-4,6-dimethyl-	1685-82-1	WILEY138.1	123236	27	C11H14	146
1H-Indene, 2,3-dihydro-1,2-dimethyl-	17057-82-8	WILEY138.1	11519	27	C11H14	146



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10511.d

Date : 31-OCT-2000 16:10

Client ID: RC-3_3rd_Flr

Sample Info: 237827;;6.8;5.37;5

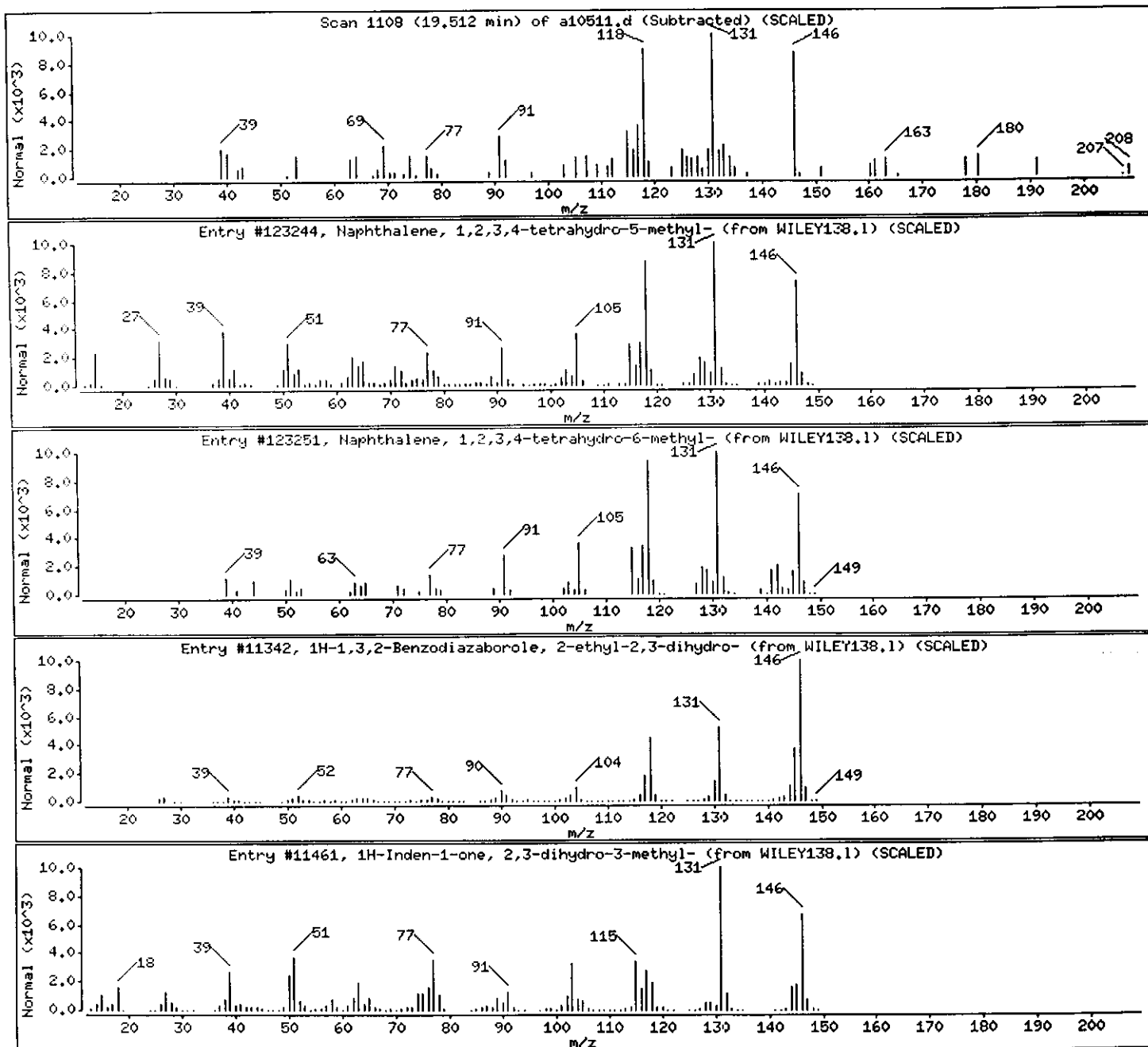
Instrument: VOAMS1.i

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Tetrahydromethylnaphthalene isomer						
Naphthalene, 1,2,3,4-tetrahydro-5-methyl	2809-64-5	WILEY138.1	123244	68	C11H14	146
Naphthalene, 1,2,3,4-tetrahydro-6-methyl	1680-51-9	WILEY138.1	123251	64	C11H14	146
1H-1,3,2-Benzodiazaborole, 2-ethyl-2,3-d	74663-81-3	WILEY138.1	11342	64	C8H11BN2	146
1H-Inden-1-one, 2,3-dihydro-3-methyl-	6072-57-7	WILEY138.1	11461	47	C10H10O	146



Client ID: RC-4_4th_Flr
Site: Rexam DSI

Lab Sample No: 237828
Lab Job No: F104

Date Sampled: 10/26/00
Date Received: 10/27/00
Date Analyzed: 10/31/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10512.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.2 g
Purge Volume: 5.0 ml
% Moisture: 4

VOLATILE ORGANICS - GC/MS
METHOD 8260B

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	1.1JB	3.0
Trichlorofluoromethane	ND	5.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	2.1J	5.0
1,2-Dichloroethane	ND	2.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	2.0
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	ND	1.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	3.0
Benzene	1.6	1.0
trans-1,3-Dichloropropene	ND	5.0
2-Chloroethyl Vinyl Ether	ND	5.0
Bromoform	ND	4.0
Tetrachloroethene	0.8J	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	6.8	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	4.0
Xylene (Total)	ND	5.0

Client ID: RC-4_4th_Flr
Site: Rexam DSI

Lab Sample No: 237828
Lab Job No: F104

Date Sampled: 10/26/00
Date Received: 10/27/00
Date Analyzed: 10/31/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10512.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.2 g
Purge Volume: 5.0 ml
% Moisture: 4.1

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. Unknown	3.97	52	
2. 2-Propanone	6.05	42	
3. 2-Butanone	8.58	20	
4. Unknown	14.69	9.3	
5. Coeluting Unknowns	14.86	12	
6. Unknown Alkane	15.40	31	
7. Unknown	16.10	17	
8. Decahydronaphthalene isomer	16.72	22	
9. Coeluting Unknowns	16.88	17	
10. Unknown Cycloalkane	17.46	21	
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

243

Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10512.d
Report Date: 01-Nov-2000 17:15

STL Envirotech

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10512.d
Lab Smp Id*: 237828 Client Smp ID: RC-4_4th_Flr
Inj Date : 31-OCT-2000 16:40
Operator : VOAMS 8 Inst ID: VOAMS1.i
Smp Info : 237828;;4.1;5.24;5
Misc Info : F104;1918;FM
Comment :
Method : /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/8260L_00.m
Meth Date : 31-Oct-2000 13:55 ken Quant Type: ISTD
Cal Date : 20-OCT-2000 18:54 Cal File: a10343.d
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPVOA.sub
Target Version: 3.50

Concentration Formula: $\text{Amt} * \text{DF} * ((\text{Vt}/\text{Ws}) / ((100-\text{M})/100)) * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	5.00000	Volume of final extract (mL)
Ws	5.24000	Weight of sample extracted (g)
M	4.10000	% Moisture (not decanted)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS						
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/Kg)
6 Methylene Chloride	84		6.731	6.701	(0.665)	7633	1.09256	1.1(a)
15 Chloroform	83		9.006	8.976	(0.889)	31640	2.12004	2.1(a)
\$ 16 1,2-Dichloroethane-d4 (SUR)	65		9.685	9.655	(0.956)	464738	75.7786	75(R)
28 Benzene	78		9.818	9.788	(0.969)	28234	1.66278	1.6
* 19 Fluorobenzene	96		10.129	10.113	(1.000)	1028534	50.0000	
\$ 37 Toluene-d8 (SUR)	98		12.079	12.049	(0.878)	441397	68.7453	68(R)
38 Toluene	91		12.153	12.137	(0.883)	52652	6.87489	6.8
35 Tetrachloroethene	166		12.832	12.817	(0.932)	3904	0.79091	0.79(a)
* 32 Chlorobenzene-d5	117		13.763	13.748	(1.000)	331212	50.0000	
\$ 41 Bromofluorobenzene (SUR)	174		15.048	15.033	(0.924)	142094	87.6796	87(R)
* 91 1,4-Dichlorobenzene-d4	152		16.289	16.274	(1.000)	73552	50.0000	

Confirmed by a10512

Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10512.d
Report Date: 01-Nov-2000 17:15

QC Flag Legend

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

Data File: /chem/VOAHS1.1/8260L0M_SP/10-20-00/31oct00.b/a10512.d

Date : 31-OCT-2000 16:40

Client ID: RC-4_4th_F1r

Sample Info: 237828;14.1;5.24;5

Column phase: DB624

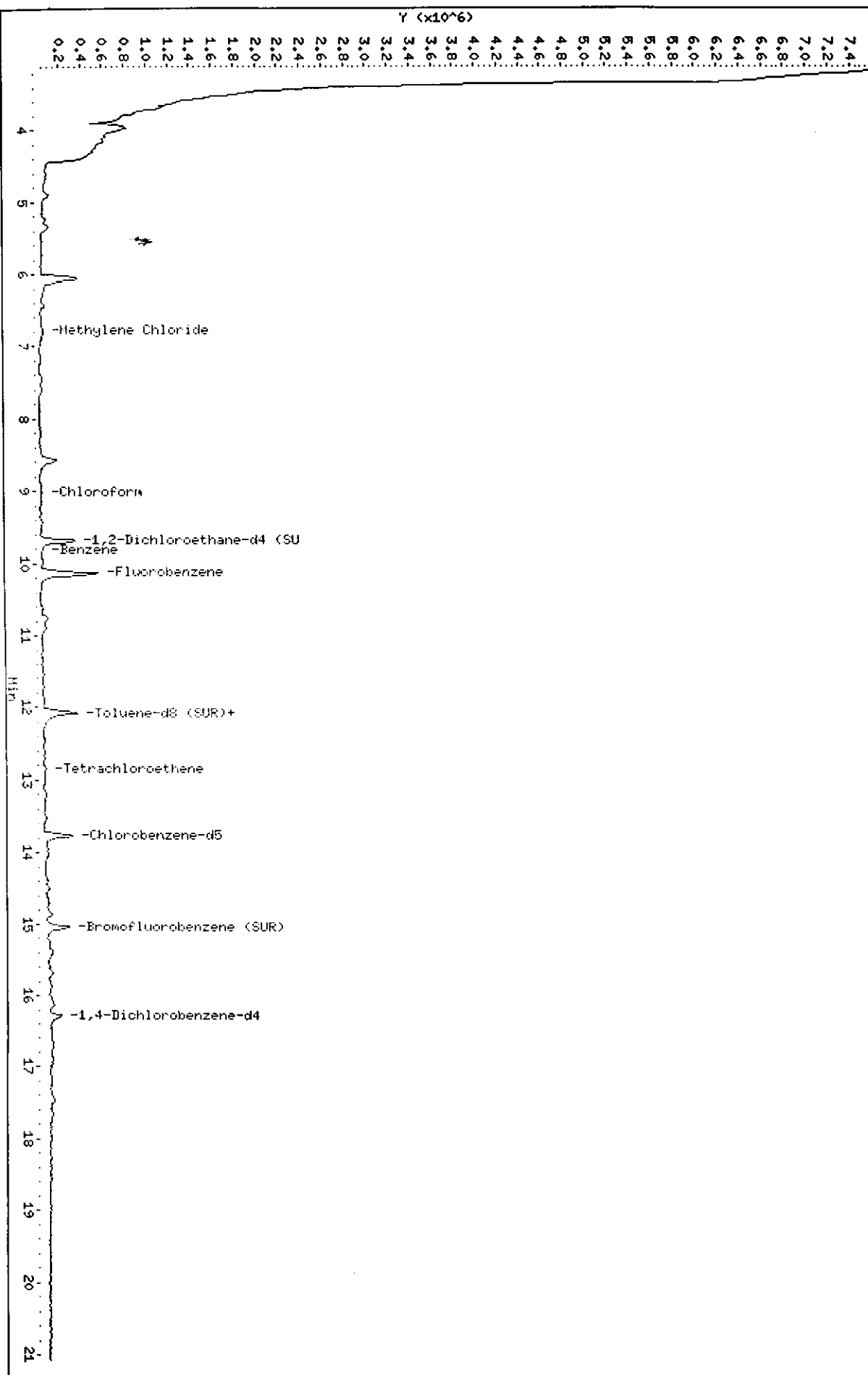
Instrument: VOAHS1.1

Operator: VOAHS 8

Column diameter: 0.53

/chem/VOAHS1.1/8260L0M_SP/10-20-00/31oct00.b/a10512.d

46



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10512.d

Date : 31-OCT-2000 16:40

Client ID: RC-4_4th_Flr

Instrument: VOAMS1.i

Sample Info: 237828;;4.1;5.24;5

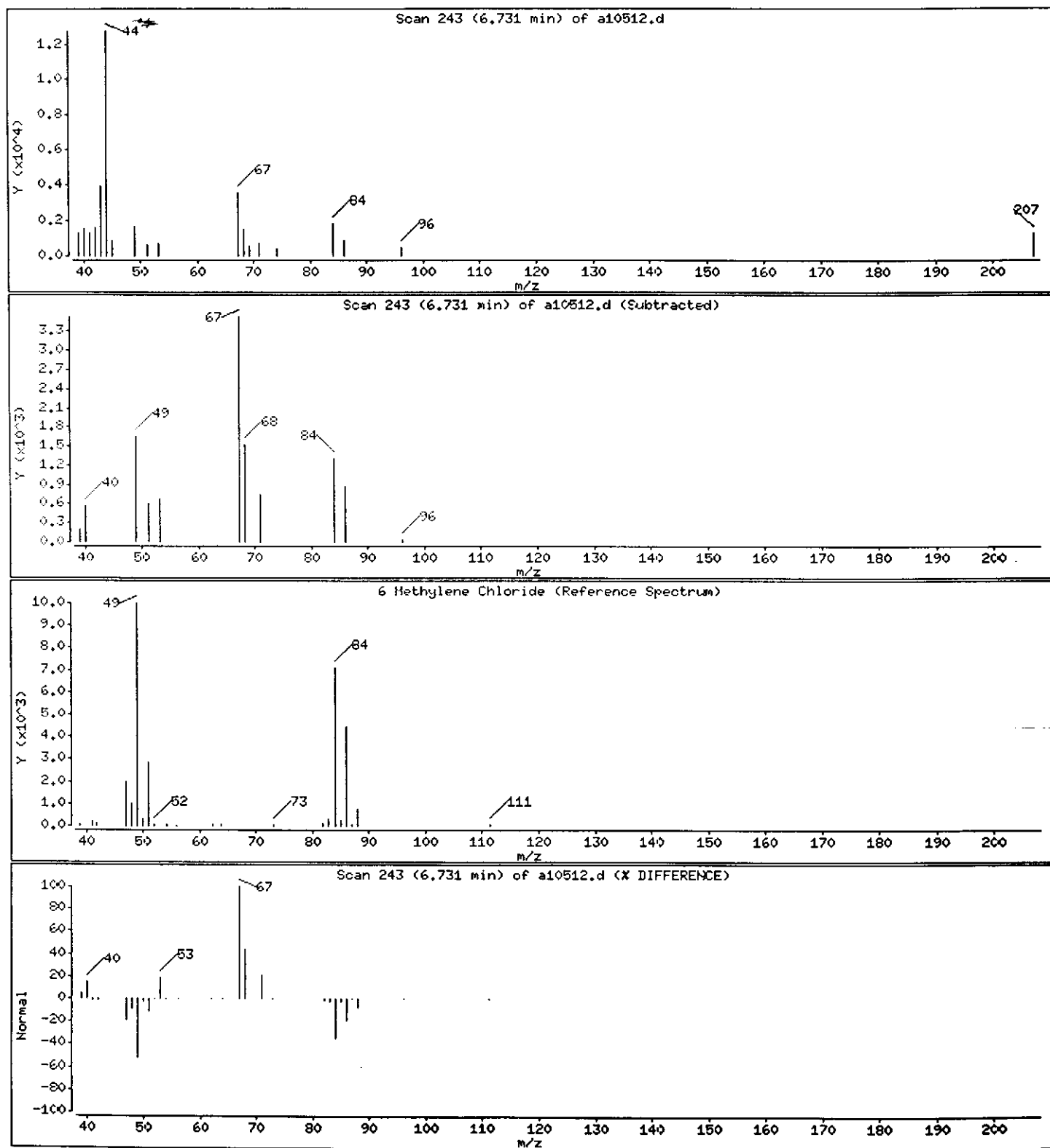
Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

6 Methylene Chloride

Concentration: 1.1 ug/Kg



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10512.d

Date : 31-OCT-2000 16:40

Client ID: RC-4_4th_Flr

Sample Info: 237828;;4.1;5.24;5

Instrument: VOAMS1.i

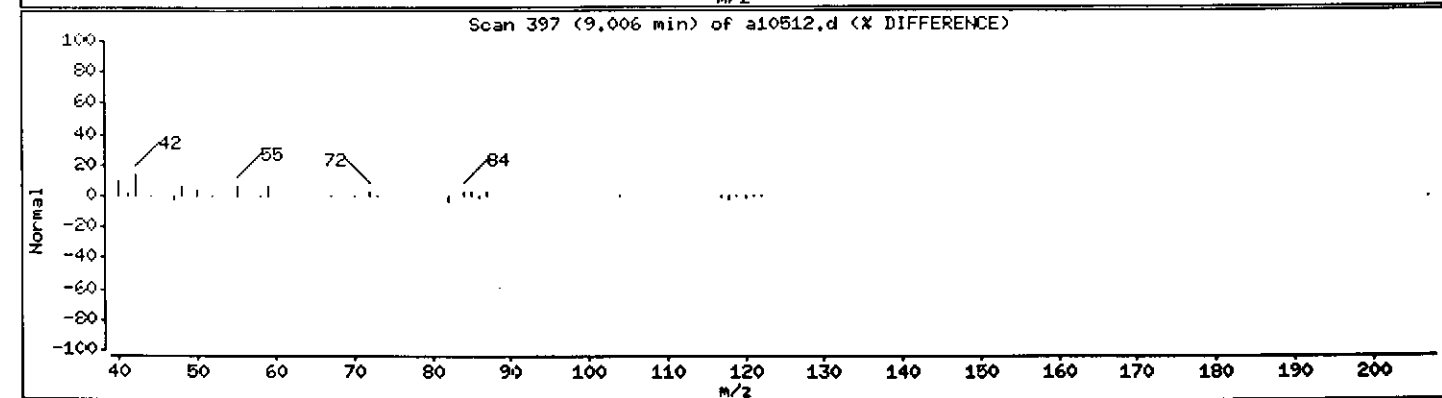
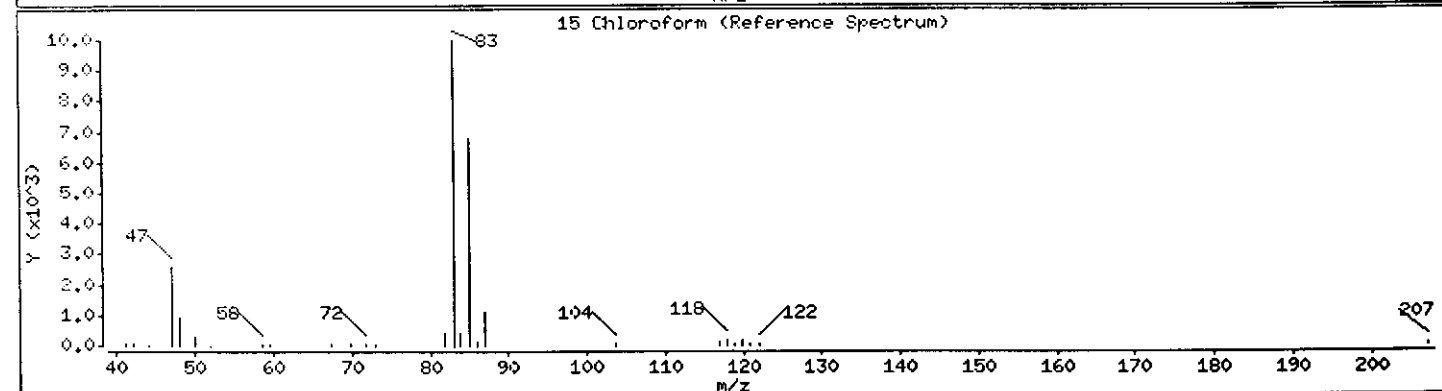
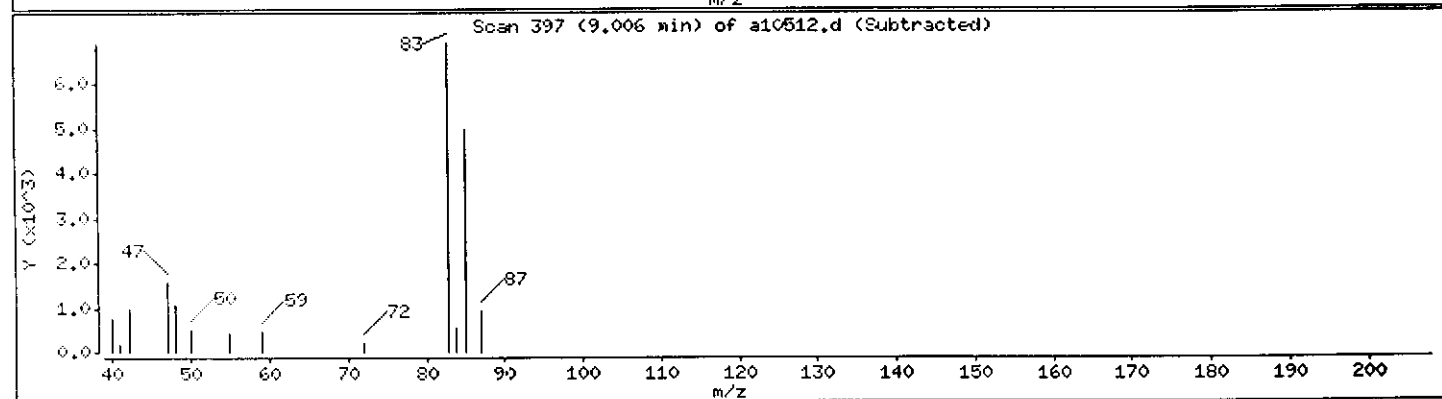
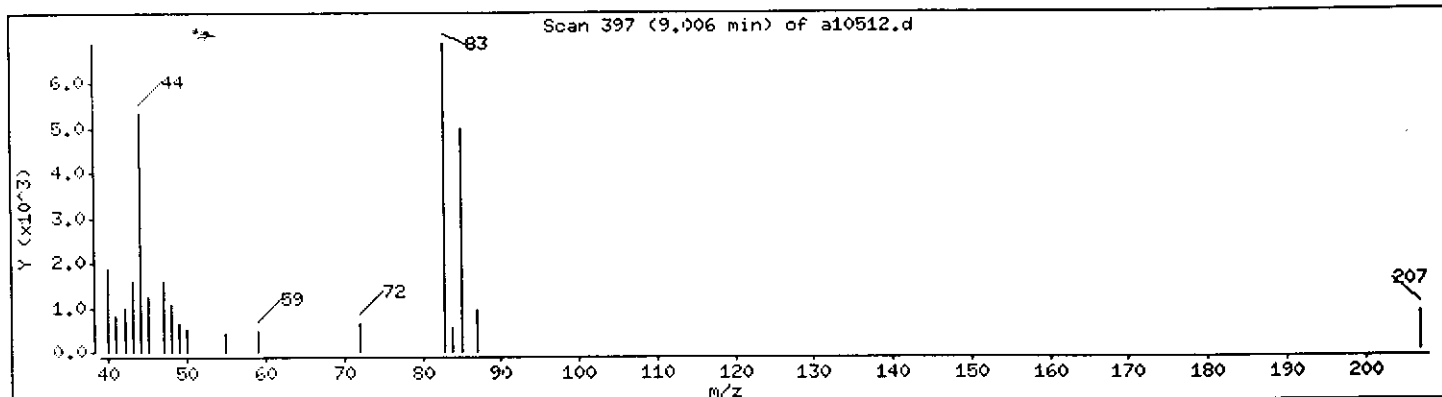
Operator: VOAMS 8

Column diameter: 0.53

Column phase: DB624

Concentration: 2.1 ug/Kg

15 Chloroform



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10512.d

Date : 31-OCT-2000 16:40

Client ID: RC-4_4th_Flr

Instrument: VOAMS1.i

Sample Info: 237828;;4.1;5.24;5

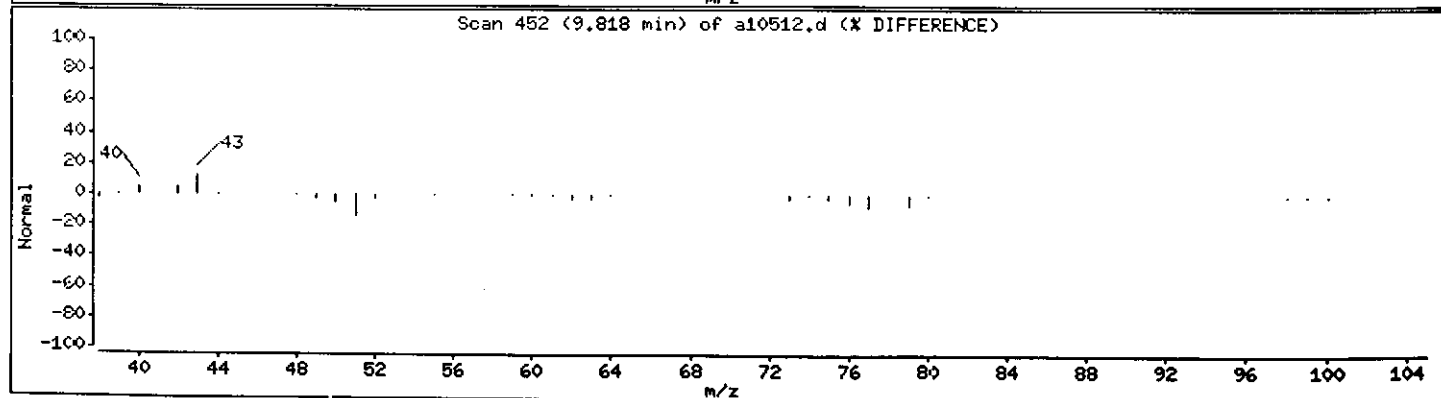
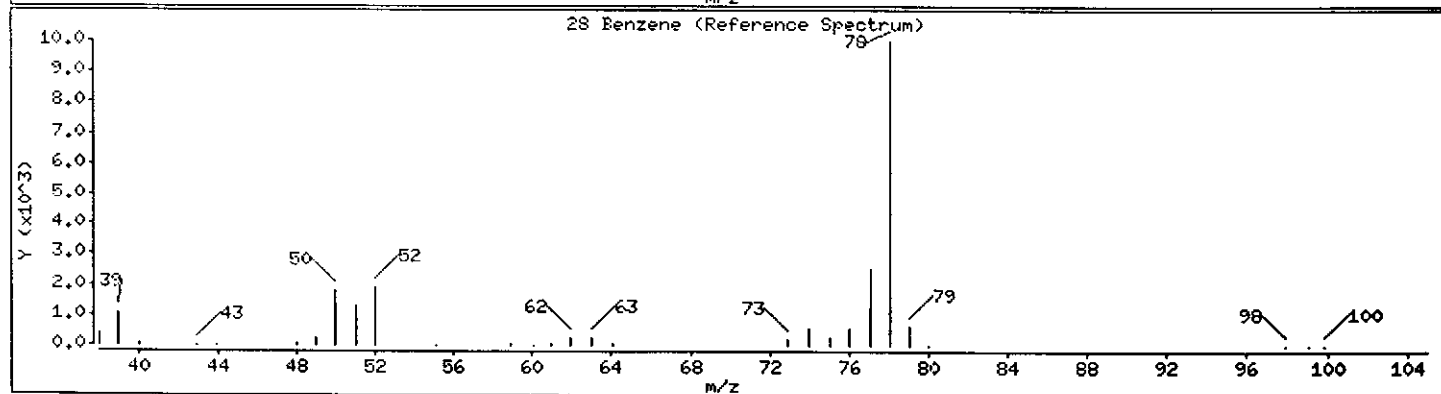
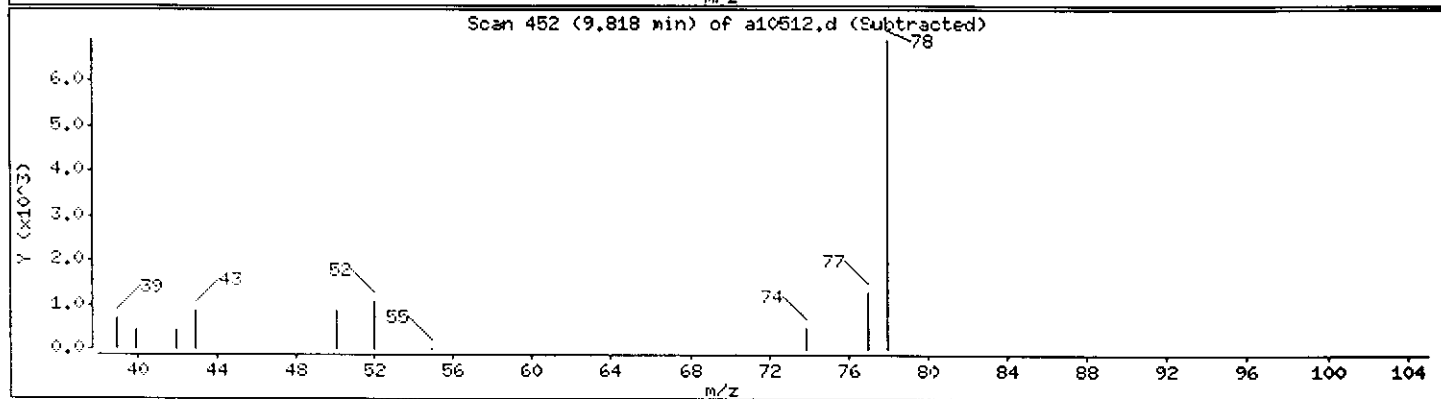
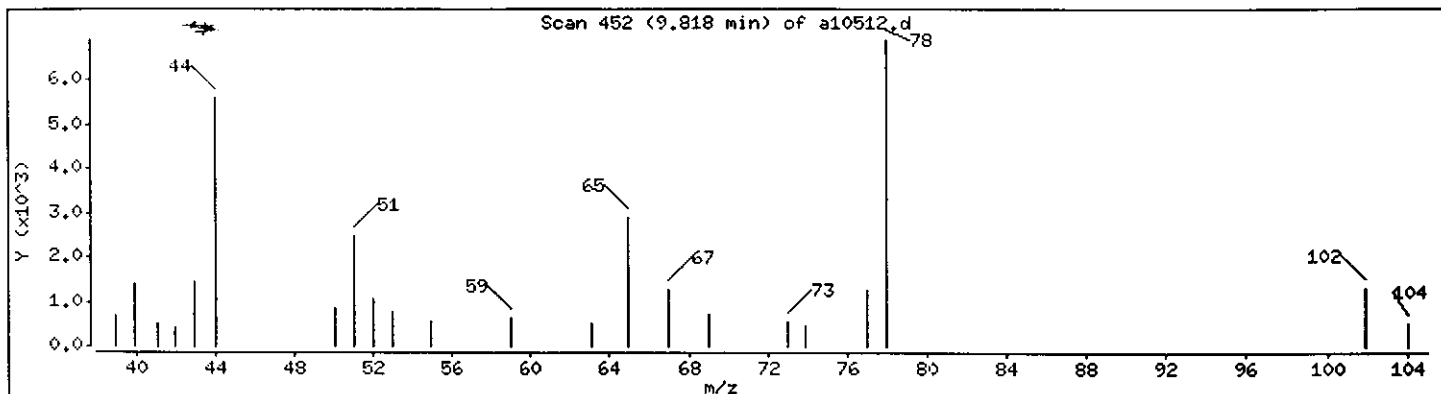
Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

28 Benzene

Concentration: 1.6 ug/Kg



Data File: /chem/VOAMS1.1/8260LOW_SP/10-20-00/31oct00.b/a10512.d

Date : 31-OCT-2000 16:40

Client ID: RC-4_4th_Flr

Sample Info: 237828;;4.1;5.24;5

Instrument: VOAMS1.1

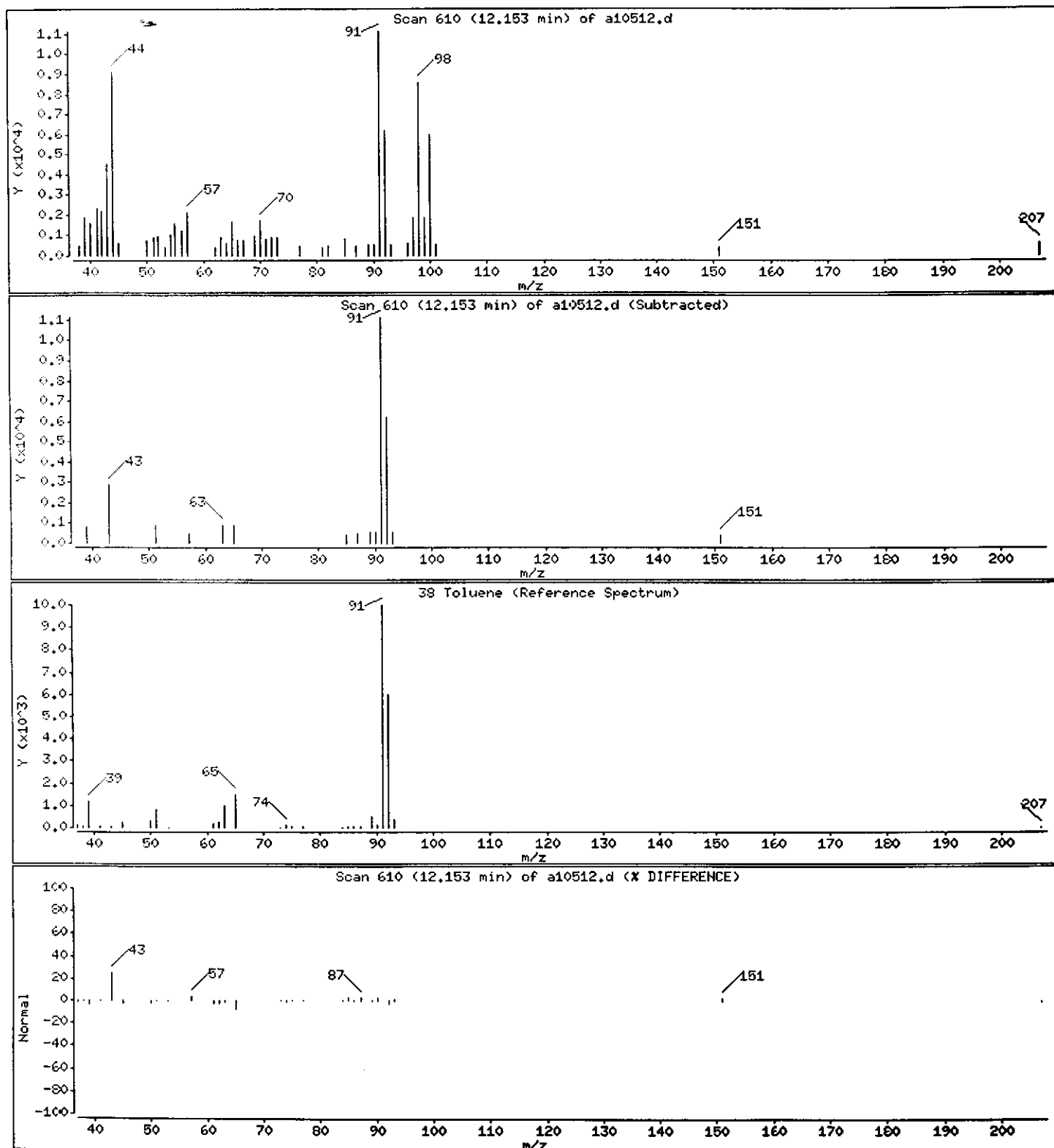
Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

38 Toluene

Concentration: 6.8 ug/Kg



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10512.d

Date : 31-OCT-2000 16:40

Client ID: RC-4_4th_Flr

Instrument: VOAMS1.i

Sample Info: 237828;;4.1;5.24;5

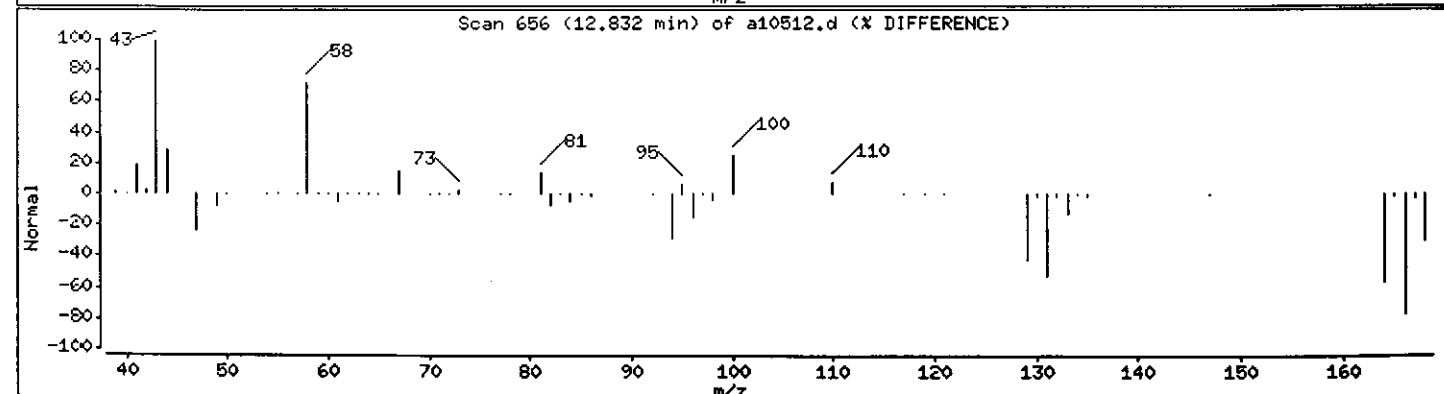
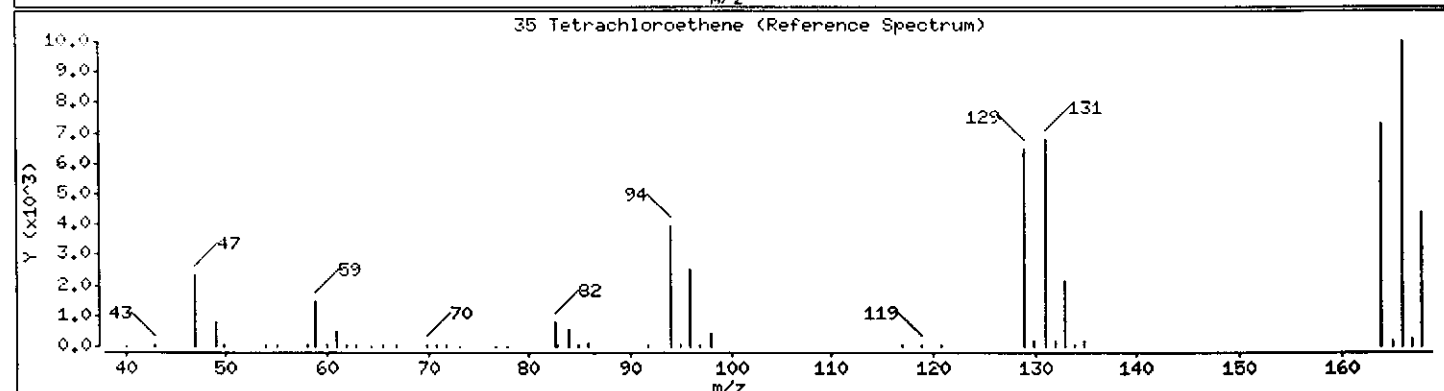
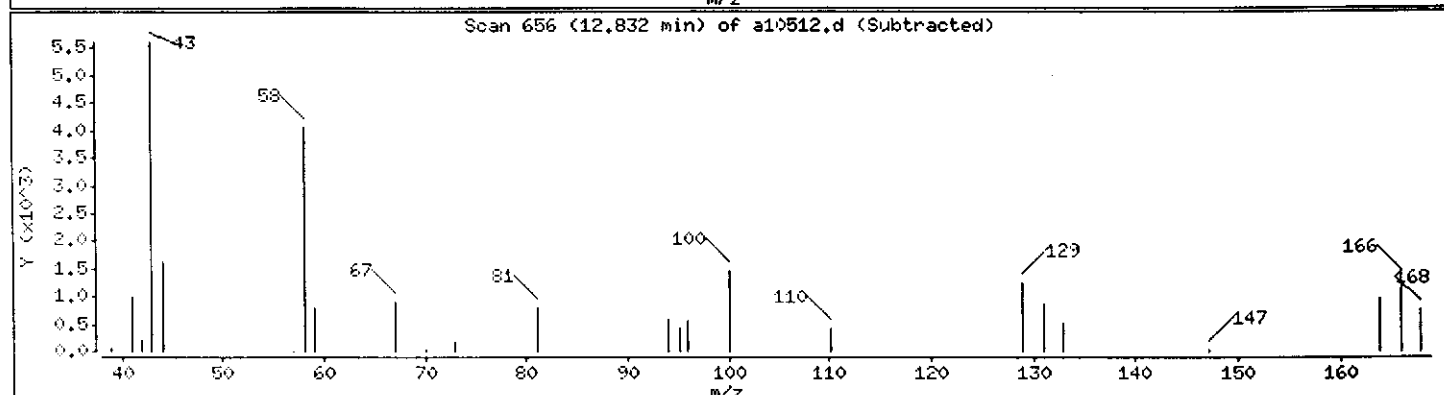
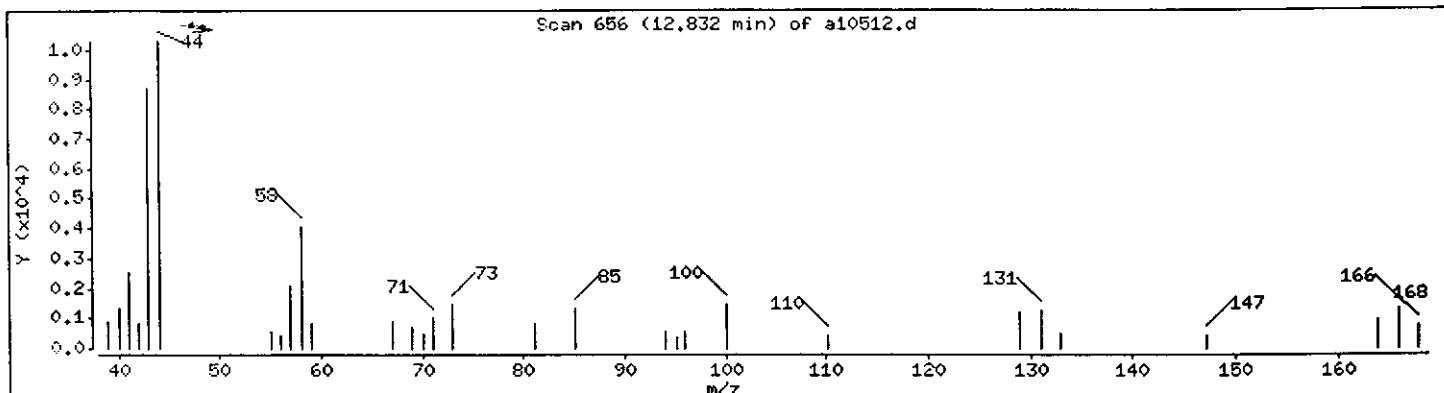
Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

35 Tetrachloroethene

Concentration: 0.79 ug/Kg



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10512.d

Date : 31-OCT-2000 16:40

Client ID: RC-4_4th_Flr

Instrument: VOAMS1.i

Sample Info: 237828;;4,1;5,24;5

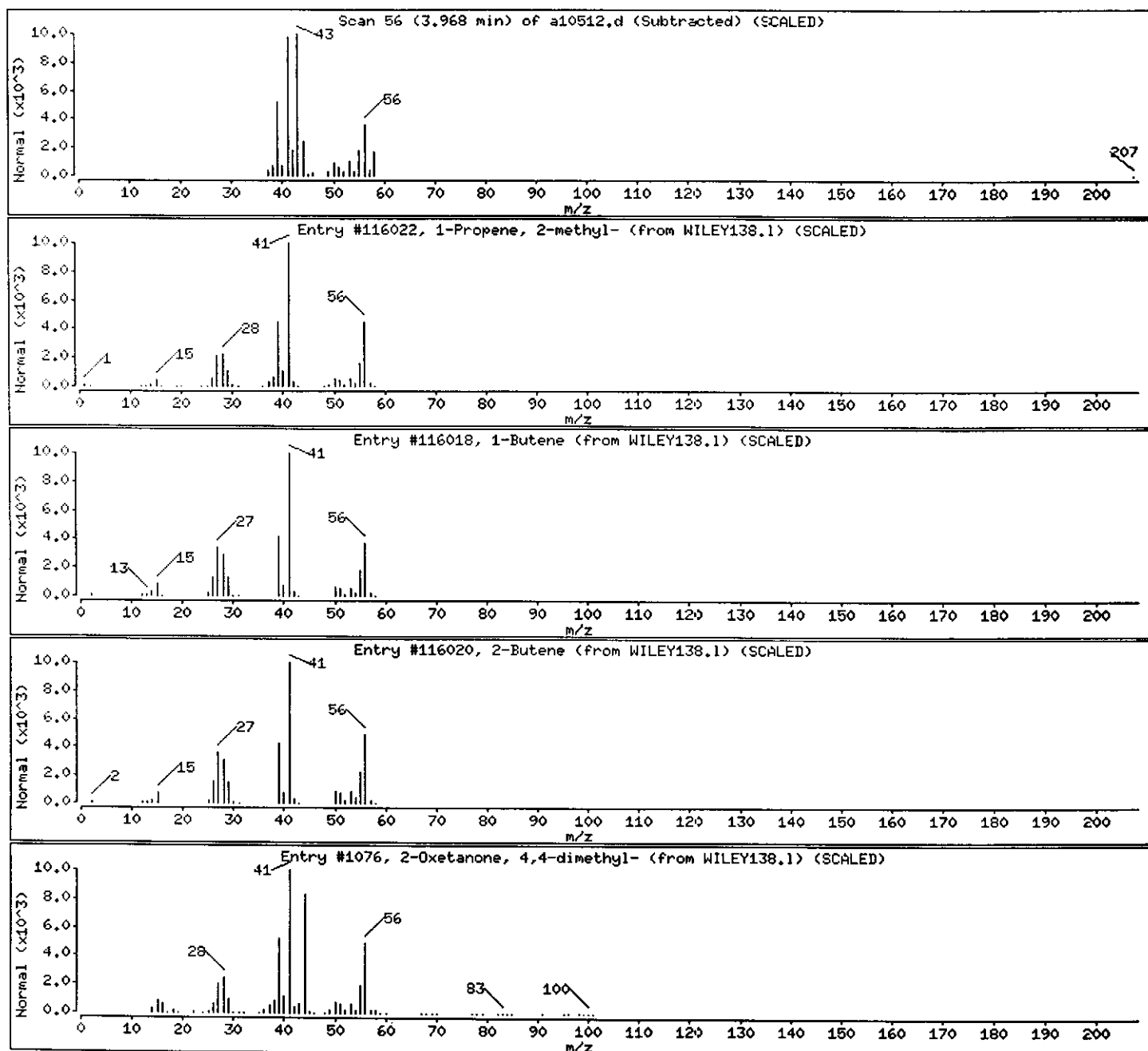
Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1-Propene, 2-methyl-	115-11-7	WILEY138.1	116022	58	C4H8	56
1-Butene	106-98-9	WILEY138.1	116018	50	C4H8	56
2-Butene	107-01-7	WILEY138.1	116020	50	C4H8	56
2-Oxetanone, 4,4-dimethyl-	1823-52-5	WILEY138.1	1076	42	C5H8O2	100



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00,b/a10512.d

Date : 31-OCT-2000 16:40

Client ID: RC-4_4th_Flr

Instrument: VOAMS1.i

Sample Info: 237828;;4.1;5.24;5

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match

CAS Number

Library

Entry

Quality

Formula

Weight

2-Propanone

67-64-1

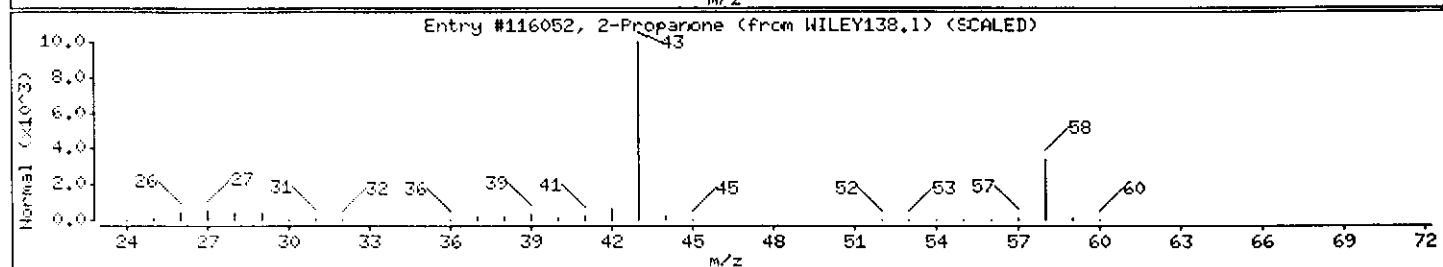
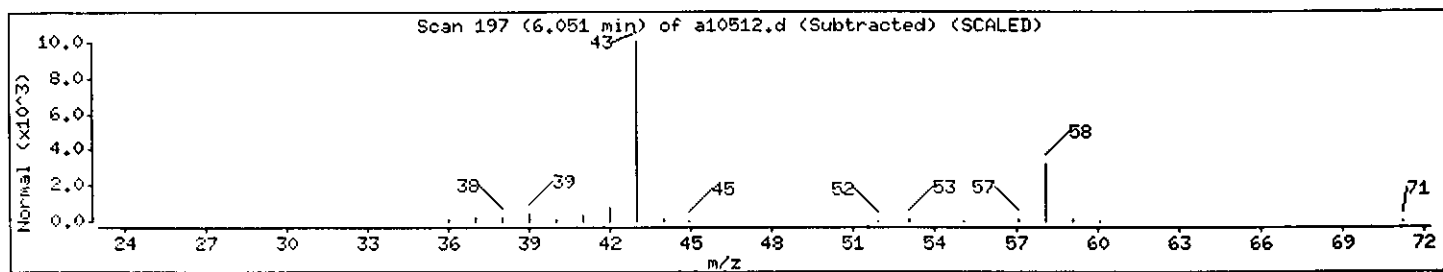
WILEY138.1

116052

72

C3H6O

58



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10512.d

Date : 31-OCT-2000 16:40

Client ID: RC-4_4th_Flr

Instrument: VOAMS1.i

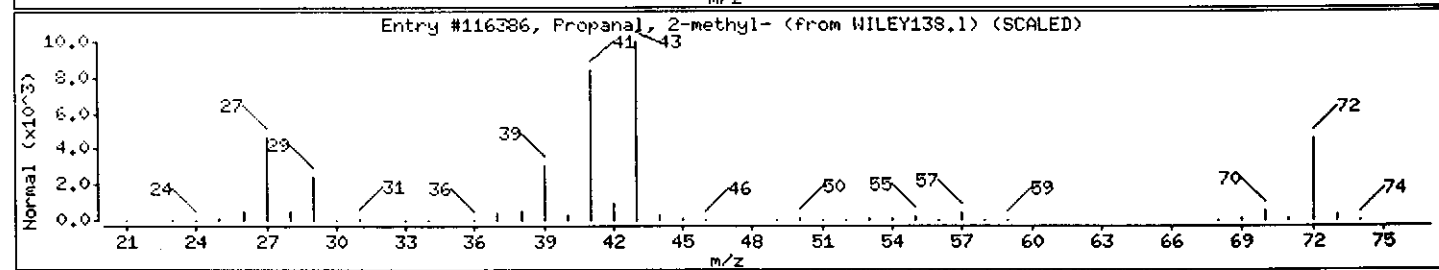
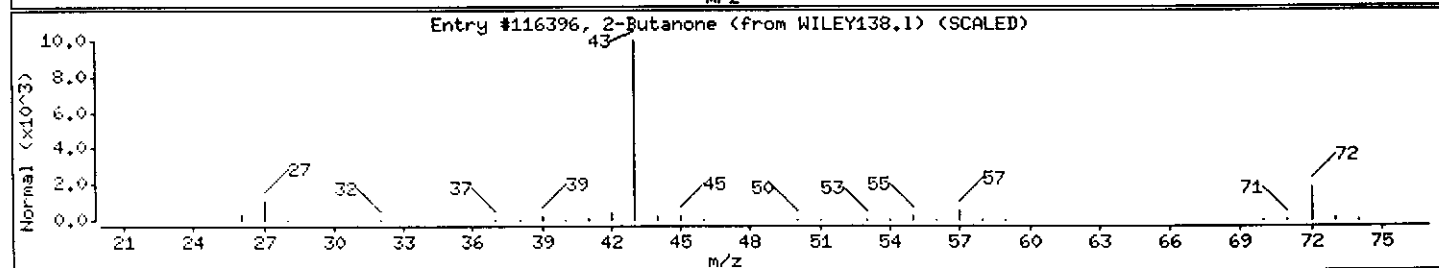
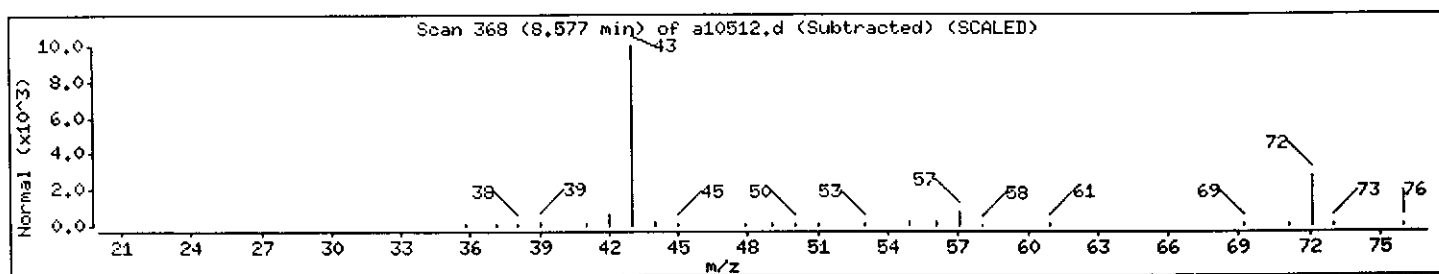
Sample Info: 237828;;4,1;5,24;5

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Butanone	78-93-3	WILEY138.1	116396	72	C4H8O	72
Propanal, 2-methyl-	78-84-2	WILEY138.1	116386	25	C4H8O	72



Data File: /chem/VOAMS1.i/8260LOW_SP/19-20-00/31oct00.b/a10512.d

Date : 31-OCT-2000 16:40

Client ID: RC-4_4th_Flr

Instrument: VOAMS1.i

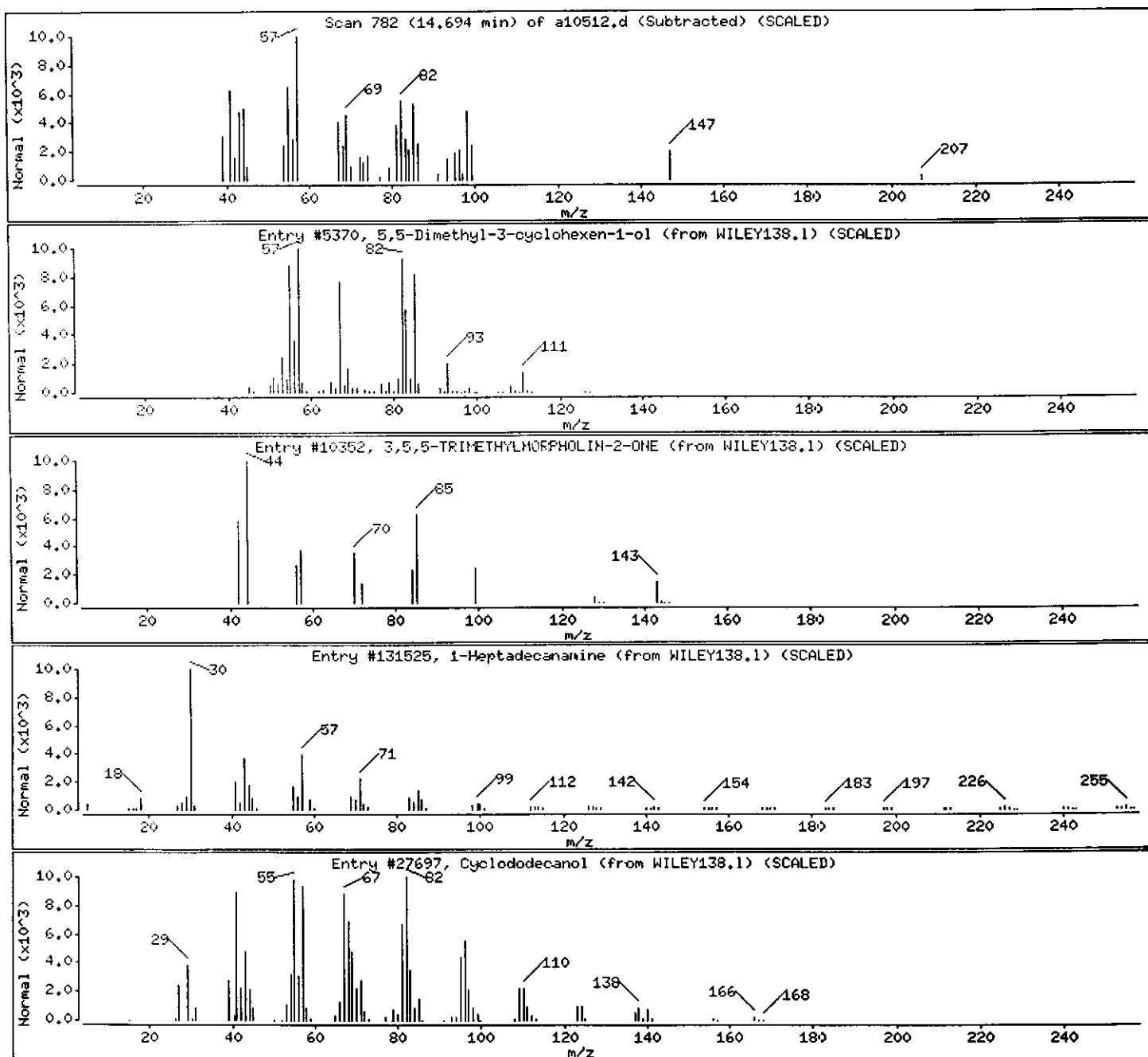
Sample Info: 237828;;4.1;5.24;5

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
5,5-Dimethyl-3-cyclohexen-1-ol	82299-68-1	WILEY138.1	5370	38	C8H14O	126
3,5,5-TRIMETHYLMORPHOLIN-2-ONE	57765-62-5	WILEY138.1	10352	27	C7H13NO2	143
1-Heptadecanamine	4200-95-7	WILEY138.1	131525	22	C17H37N	255
Cyclododecanol	1724-39-6	WILEY138.1	27697	22	C12H24O	184



Data File: /chem/VOAMS1.1/8260LOW_SP/10-20-00/31oct00.b/a10512.d

Date : 31-OCT-2000 16:40

Client ID: RC-4_4th_Flr

Instrument: VOAMS1.i

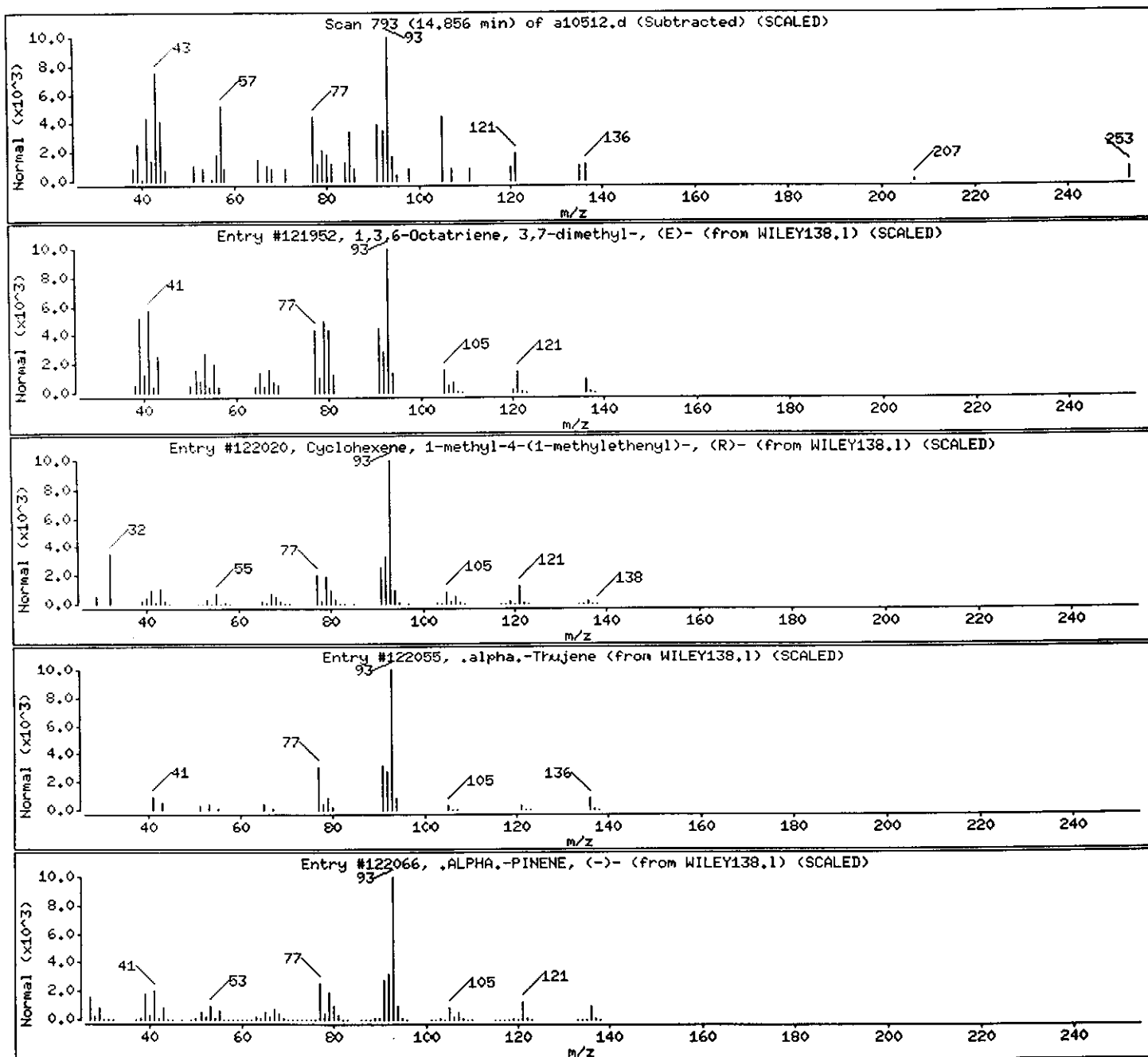
Sample Info: 237828;;4.1;5.24;5

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Coeluting Unknowns						
1,3,6-Octatriene, 3,7-dimethyl-, (E)-	3779-61-1	WILEY138.1	121952	64	C10H16	136
Cyclohexene, 1-methyl-4-(1-methylethenyl)	5989-27-5	WILEY138.1	122020	64	C10H16	136
.alpha.-Thujene	2867-05-2	WILEY138.1	122055	52	C10H16	136
.ALPHA.-PINENE, (-)-	80-56-8	WILEY138.1	122066	49	C10H16	136



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10512.d

Date : 31-OCT-2000 16:40

Client ID: RC-4_4th_Flr

Instrument: VOAMS1.i

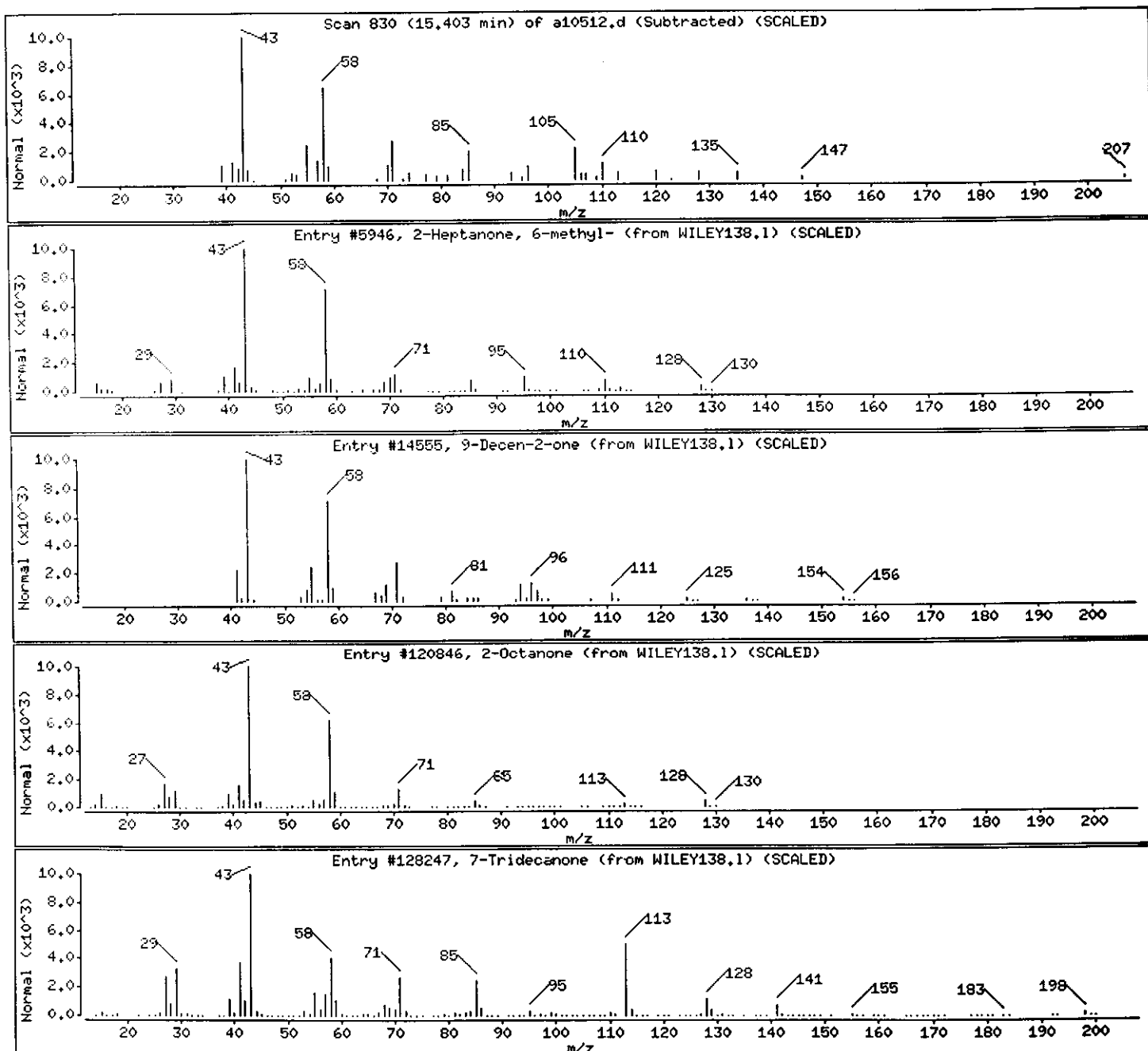
Sample Info: 237828;;4.1;5.24;5

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
2-Heptanone, 6-methyl-	928-68-7	WILEY138.1	5946	37	C ₈ H ₁₆ O	128
9-Decen-2-one	35194-30-0	WILEY138.1	14555	37	C ₁₀ H ₁₈ O	154
2-Octanone	111-13-7	WILEY138.1	120846	35	C ₈ H ₁₆ O	128
7-Tridecanone	462-18-0	WILEY138.1	128247	25	C ₁₃ H ₂₆ O	198



Data File: /chem/VOAMS1.1/8260LOW_SP/10-20-00/31oct00.b/a10512.d

Date : 31-OCT-2000 16:40

Client ID: RC-4_4th_Flr

Instrument: VOAMS1.i

Sample Info: 237828;;4.1;5.24;5

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match

Unknown

Cyclohexanone, 2,3-dimethyl-

1,3-Cyclohexanedione, 5,5-dimethyl-

1-Nonene

CAS Number

Library

Entry

Quality

Formula

Weight

13395-76-1

WILEY138.1

5364

25

C8H14O

126

126-81-8

WILEY138.1

9235

22

C8H12O2

140

124-11-8

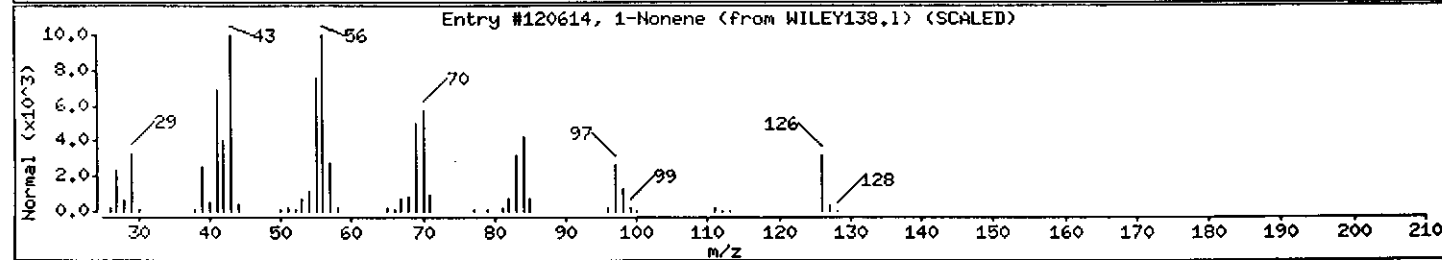
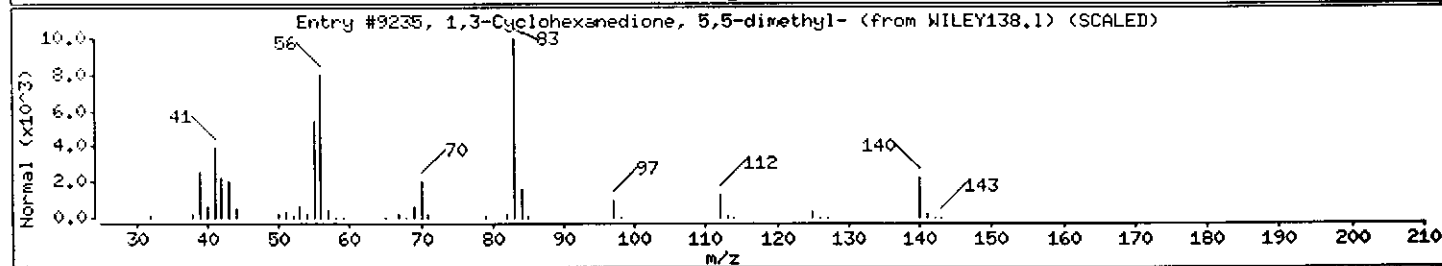
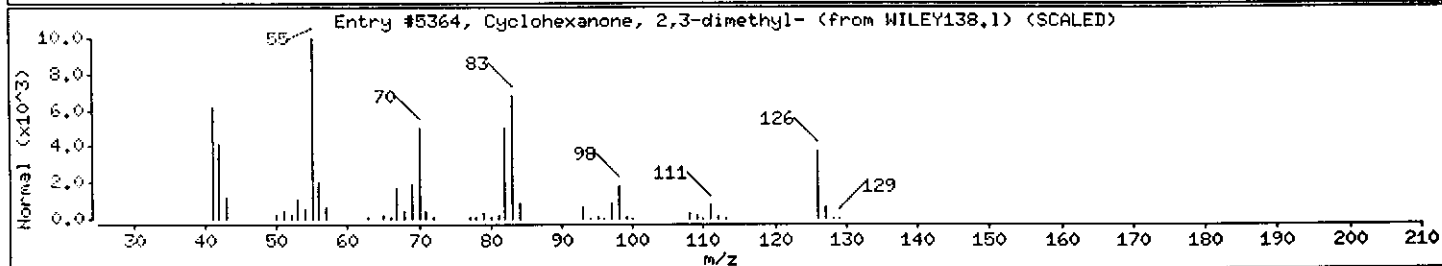
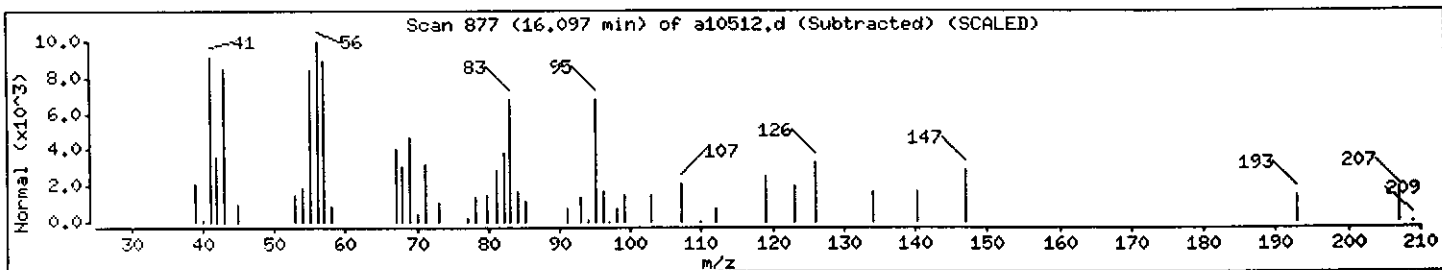
WILEY138.1

120614

22

C9H18

126



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10512.d

Date : 31-OCT-2000 16:40

Client ID: RC-4_4th_Flr

Instrument: VOAMS1.i

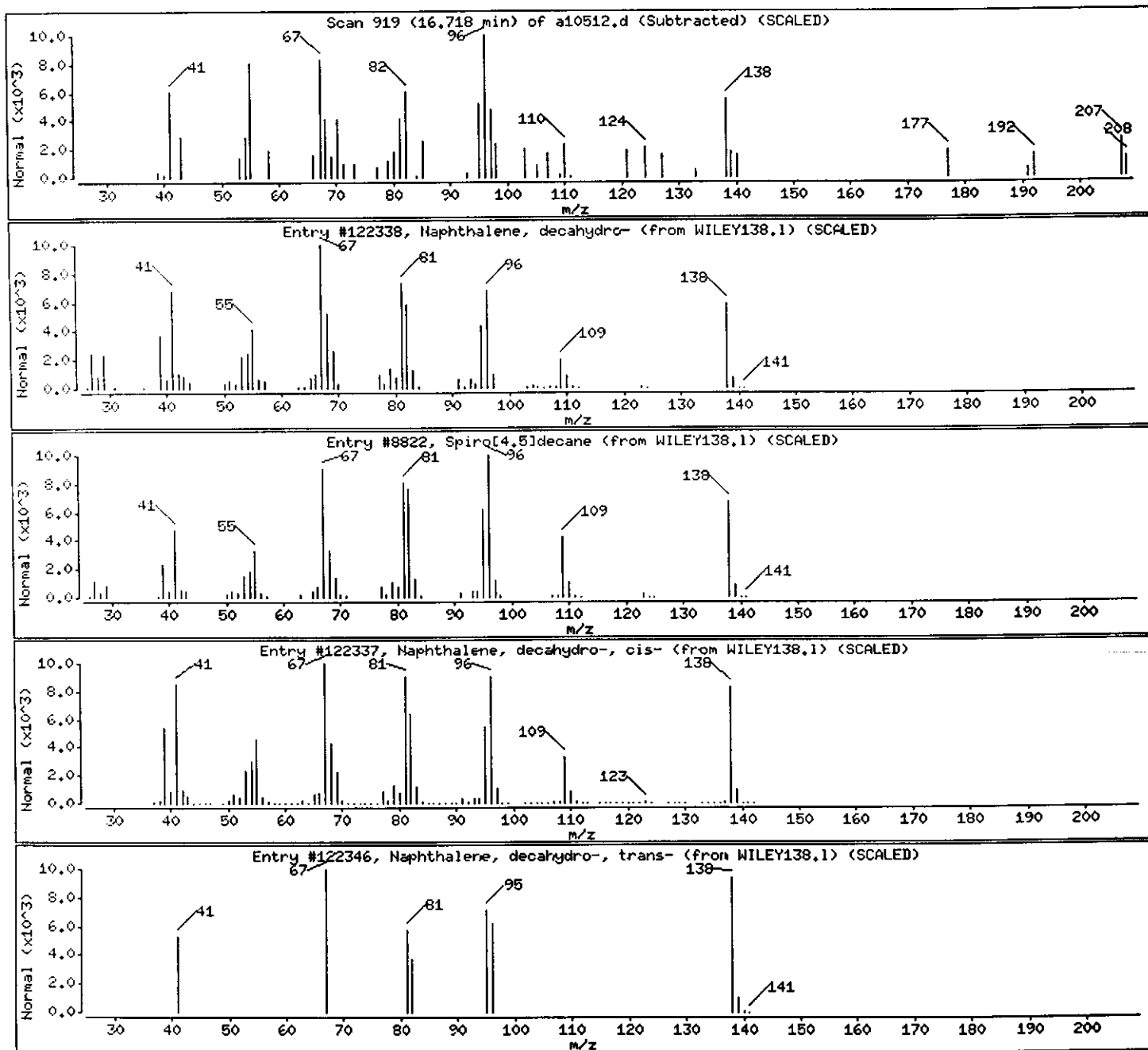
Sample Info: 237828;;4.1;5.24;5

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Decahydronaphthalene isomer						
Naphthalene, decahydro-	91-17-8	WILEY138.1	122338	62	C10H18	138
Spiro[4.5]decane	176-63-6	WILEY138.1	8822	58	C10H18	138
Naphthalene, decahydro-, cis-	493-01-6	WILEY138.1	122337	58	C10H18	138
Naphthalene, decahydro-, trans-	493-02-7	WILEY138.1	122346	46	C10H18	138



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10512.d

Date : 31-OCT-2000 16:40

Client ID: RC-4_4th_Flr

Instrument: VOAMS1.i

Sample Info: 237828;;4.1;5.24;5

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match

Coeluting Unknowns

1H-1,2,4-Triazole, 1-butyl-

CAS Number

Library

Entry

Quality

Formula

Weight

6086-22-2

WILEY138.1

120455

30

C6H11N3

125

Cyclopentane, 1,1,3,4-tetramethyl-, cis-

53907-60-1

WILEY138.1

5455

27

C9H18

126

3-Octanol, 3,7-dimethyl-

78-69-3

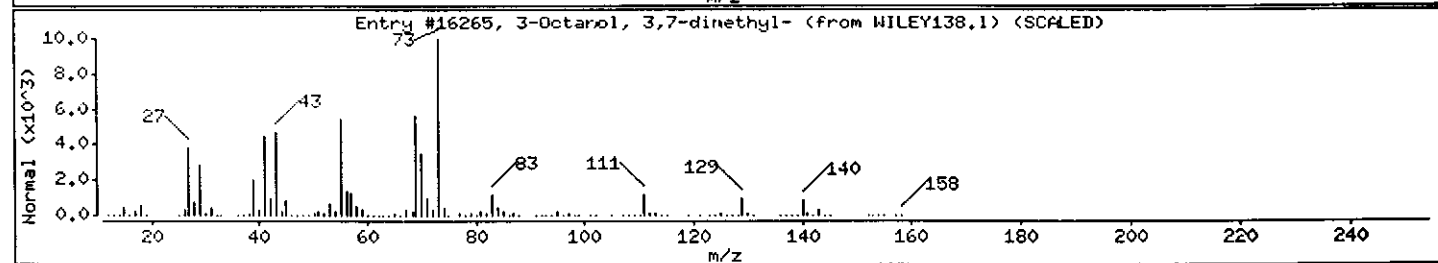
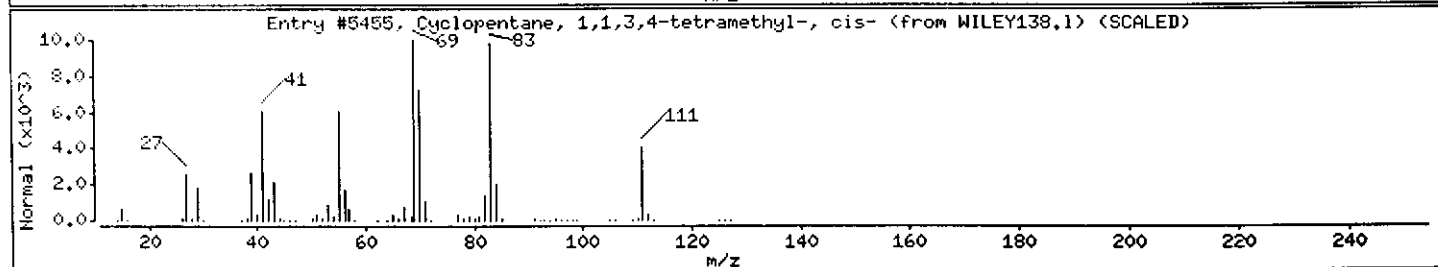
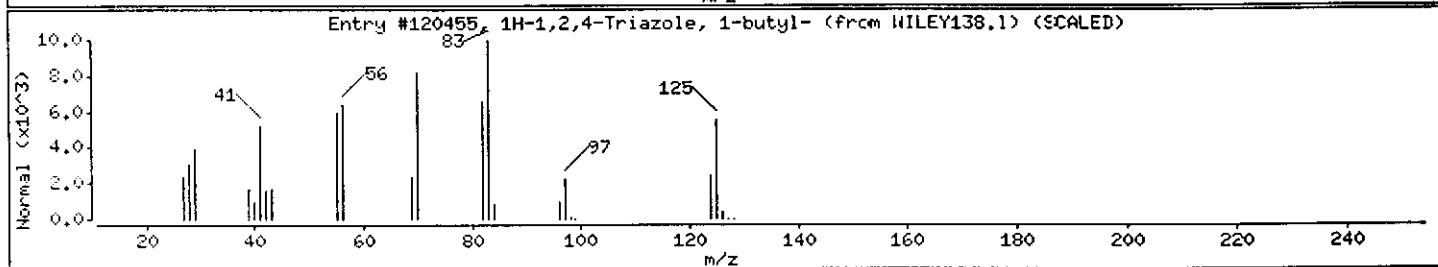
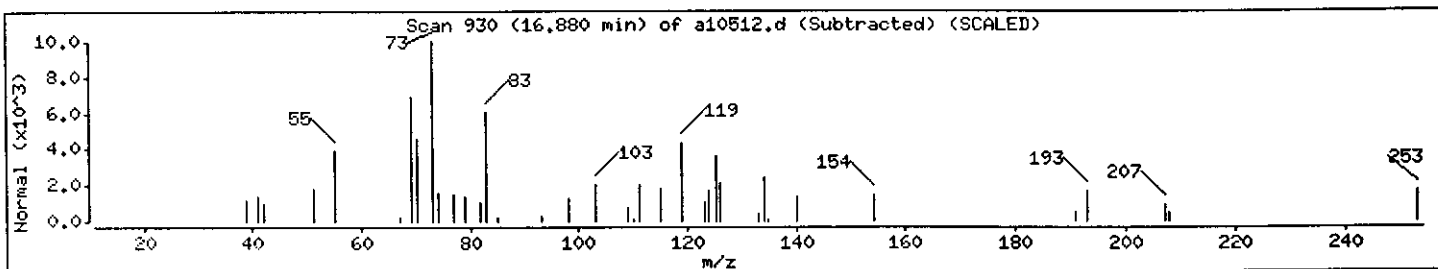
WILEY138.1

16265

22

C10H22O

158



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10512.d

Date : 31-OCT-2000 16:40

Client ID: RC-4_4th_Flr

Instrument: VOAMS1.i

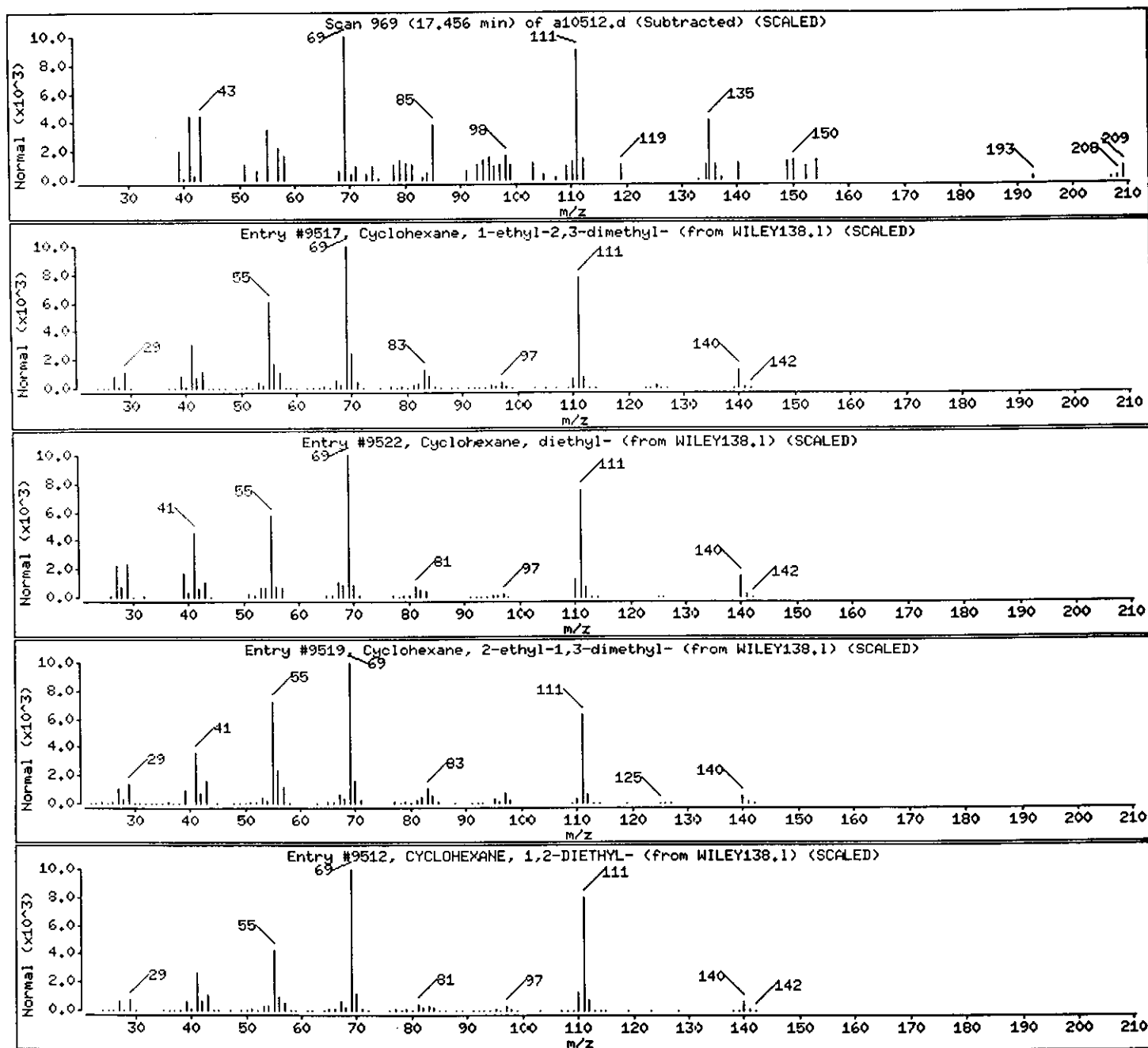
Sample Info: 237828;;4.1;5.24;5

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Cycloalkane						
Cyclohexane, 1-ethyl-2,3-dimethyl-	7058-05-1	WILEY138.1	9517	43	C10H20	140
Cyclohexane, diethyl-	1331-43-7	WILEY138.1	9522	43	C10H20	140
Cyclohexane, 2-ethyl-1,3-dimethyl-	7045-67-2	WILEY138.1	9519	43	C10H20	140
CYCLOHEXANE, 1,2-DIETHYL-	0-00-0	WILEY138.1	9512	43	C10H20	140



Client ID: ES-1_ElShaft_4th
Site: Rexam DSI

Lab Sample No: 237829
Lab Job No: F104

Date Sampled: 10/26/00
Date Received: 10/27/00
Date Analyzed: 10/31/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10513.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.3 g
Purge Volume: 5.0 ml
% Moisture: 40

VOLATILE ORGANICS - GC/MS
METHOD 8260B

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Chloromethane	ND	7.8
Bromomethane	ND	7.8
Vinyl Chloride	ND	7.8
Chloroethane	ND	7.8
Methylene Chloride	1.7JB	4.7
Trichlorofluoromethane	ND	7.8
1,1-Dichloroethene	ND	3.1
1,1-Dichloroethane	ND	7.8
trans-1,2-Dichloroethene	2.3J	7.8
cis-1,2-Dichloroethene	7.6J	7.8
Chloroform	ND	7.8
1,2-Dichloroethane	ND	3.1
1,1,1-Trichloroethane	ND	7.8
Carbon Tetrachloride	ND	3.1
Bromodichloromethane	ND	1.6
1,2-Dichloropropane	ND	1.6
cis-1,3-Dichloropropene	ND	7.8
Trichloroethene	8.4	1.6
Dibromochloromethane	ND	7.8
1,1,2-Trichloroethane	ND	4.7
Benzene	3.2	1.6
trans-1,3-Dichloropropene	ND	7.8
2-Chloroethyl Vinyl Ether	ND	7.8
Bromoform	ND	6.3
Tetrachloroethene	12	1.6
1,1,2,2-Tetrachloroethane	ND	1.6
Toluene	11	7.8
Chlorobenzene	ND	7.8
Ethylbenzene	4.1J	6.3
Xylene (Total)	11	7.8

Client ID: ES-1_ElShaft_4th
Site: Rexam DSI

Lab Sample No: 237829
Lab Job No: F104

Date Sampled: 10/26/00
Date Received: 10/27/00
Date Analyzed: 10/31/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10513.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.3 g
Purge Volume: 5.0 ml
% Moisture: 40.4

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. C11H24 Alkane	16.13	270	_____
2. C11H24 Alkane	16.57	220	_____
3. C11H22 Cycloalkane	16.71	370	_____
4. C12H26 Alkane	16.79	320	_____
5. C11H22 Cycloalkane	16.93	470	_____
6. C12H26 Alkane	17.22	260	_____
7. C12H24 Cycloalkane	17.33	390	_____
8. Unknown	17.41	490	_____
9. Decahydromethylnaphthalene isomer	17.67	380	_____
10. C13H28 Alkane	17.90	450	_____
11. _____	_____	_____	_____
12. _____	_____	_____	_____
13. _____	_____	_____	_____
14. _____	_____	_____	_____
15. _____	_____	_____	_____
16. _____	_____	_____	_____
17. _____	_____	_____	_____
18. _____	_____	_____	_____
19. _____	_____	_____	_____
20. _____	_____	_____	_____
21. _____	_____	_____	_____
22. _____	_____	_____	_____
23. _____	_____	_____	_____
24. _____	_____	_____	_____
25. _____	_____	_____	_____
26. _____	_____	_____	_____
27. _____	_____	_____	_____
28. _____	_____	_____	_____
29. _____	_____	_____	_____
30. _____	_____	_____	_____

TOTAL ESTIMATED CONCENTRATION

3620

Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10513.d
Report Date: 01-Nov-2000 17:15

STL Envirotech

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10513.d
Lab Smp Id: 237829 Client Smp ID: ES-1_ElShaft_4th
Inj Date : 31-OCT-2000 17:10
Operator : VOAMS 8 Inst ID: VOAMS1.i
Smp Info : 237829;;40.4;5.35;5
Misc Info : F104;1918;FM
Comment :
Method : /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/8260L_00.m
Meth Date : 31-Oct-2000 13:55 ken Quant Type: ISTD
Cal Date : 20-OCT-2000 18:54 Cal File: a10343.d
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPVOA.sub
Target Version: 3.50

Concentration Formula: $\text{Amt} * \text{DF} * ((\text{Vt}/\text{Ws}) / ((100-\text{M})/100)) * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	5.00000	Volume of final extract (mL)
Ws	5.35000	Weight of sample extracted (g)
M	40.40000	% Moisture (not decanted)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/Kg)
6 Methylene Chloride	84	6.734	6.701	(0.665)	10265	1.10974	1.7(a)
12 trans-1,2-Dichloroethene	96	7.177	7.129	(0.708)	13855	1.45011	2.3(a)
13 cis-1,2-Dichloroethene	96	8.610	8.577	(0.850)	50535	4.88423	7.6(a)
\$ 16 1,2-Dichloroethane-d4 (SUR)	65	9.688	9.655	(0.956)	559238	68.8731	110
28 Benzene	78	9.821	9.788	(0.969)	46321	2.06042	3.2
* 19 Fluorobenzene	96	10.132	10.113	(1.000)	1361771	50.0000	
25 Trichloroethene	95	10.619	10.586	(1.048)	70358	5.37625	8.4
\$ 37 Toluene-d8 (SUR)	98	12.067	12.049	(0.877)	645263	65.2648	100
38 Toluene	91	12.156	12.137	(0.883)	86138	7.30422	11
35 Tetrachloroethene	166	12.835	12.817	(0.932)	56368	7.41612	12
* 32 Chlorobenzene-d5	117	13.766	13.748	(1.000)	510009	50.0000	
40 Ethylbenzene	106	13.899	13.866	(1.010)	11745	2.62090	4.1(a)
M 45 Xylene (Total)	100				37672	7.01544	11
\$ 41 Bromofluorobenzene (SUR)	174	15.051	15.033	(0.925)	215026	75.5089	120
* 91 1,4-Dichlorobenzene-d4	152	16.277	16.274	(1.000)	129244	50.0000	

Confirmed by A.

Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10513.d
 Report Date: 01-Nov-2000 17:15

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					(ug/L)	(ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
44 o-Xylene	106	14.475	14.442	(1.052)	9844	1.87559	2.9(a)
43 m+p-Xylene	106	14.002	13.984	(1.017)	27828	5.12432	8.0(a)

QC Flag Legend

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

Data File: /chem/VOAHSL1.i/8260LDM_SP/10-20-00/31oct00.b/a10513.d

Date : 31-OCT-2000 17:10

Client ID: ES-1_E1Shaft_4th

Sample Info: 237829;40.4;E,35;E

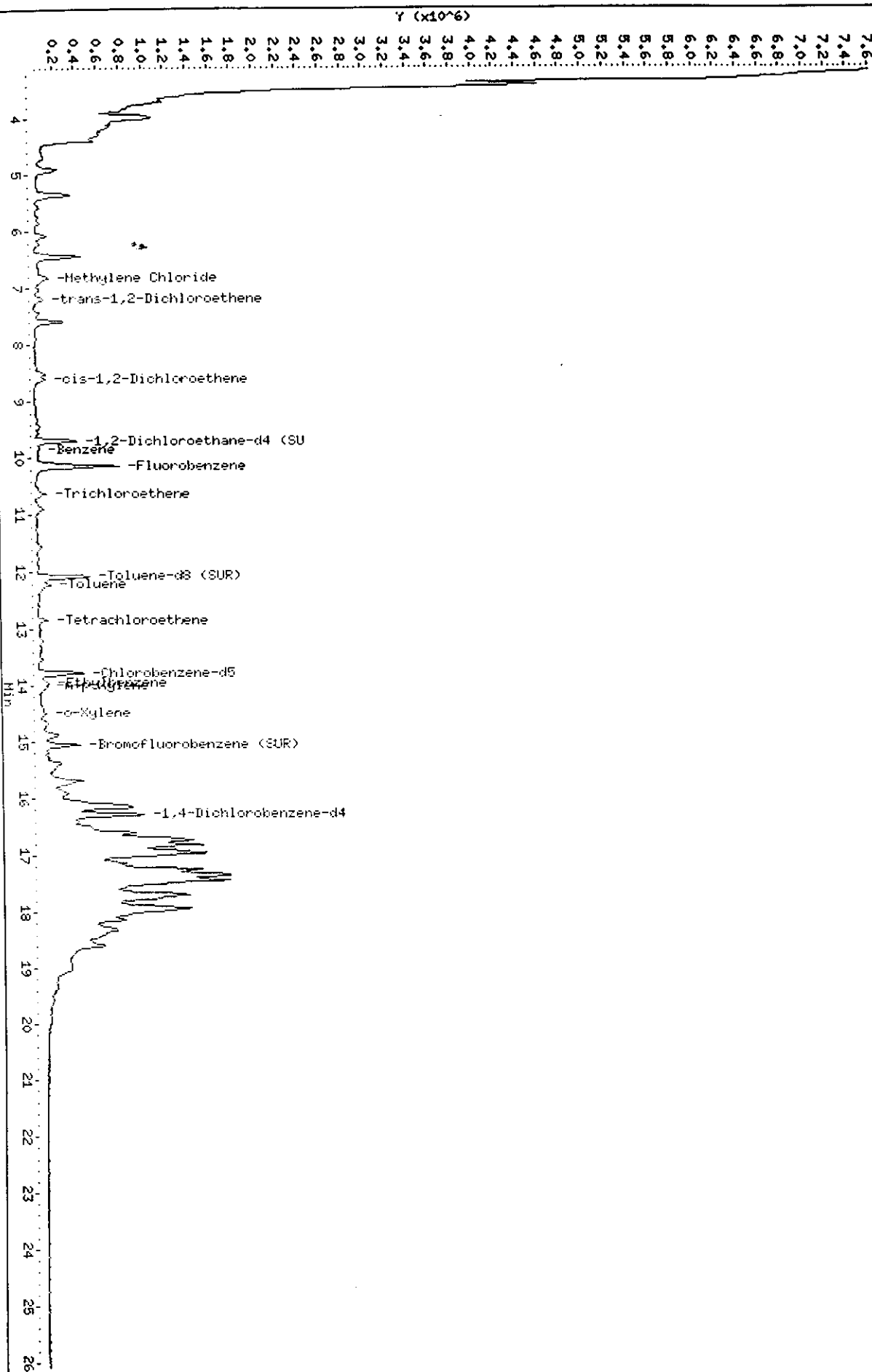
Column phase: DB624

Instrument: VOAHSL1.i

Operator: VOAHSL 8

Column diameter: 0.53

/chem/VOAHSL1.i/8260LDM_SP/10-20-00/31oct00.b/a10513.d



Data File: /chem/VOAHS1.i/8260LOW_SP/10-20-00/31oct00.b/a10513.d

Date : 31-OCT-2000 17:10

Client ID: ES-1_ElShaft_4th

Instrument: VOAHS1.i

Sample Info: 237829;;40.4;5.35;5

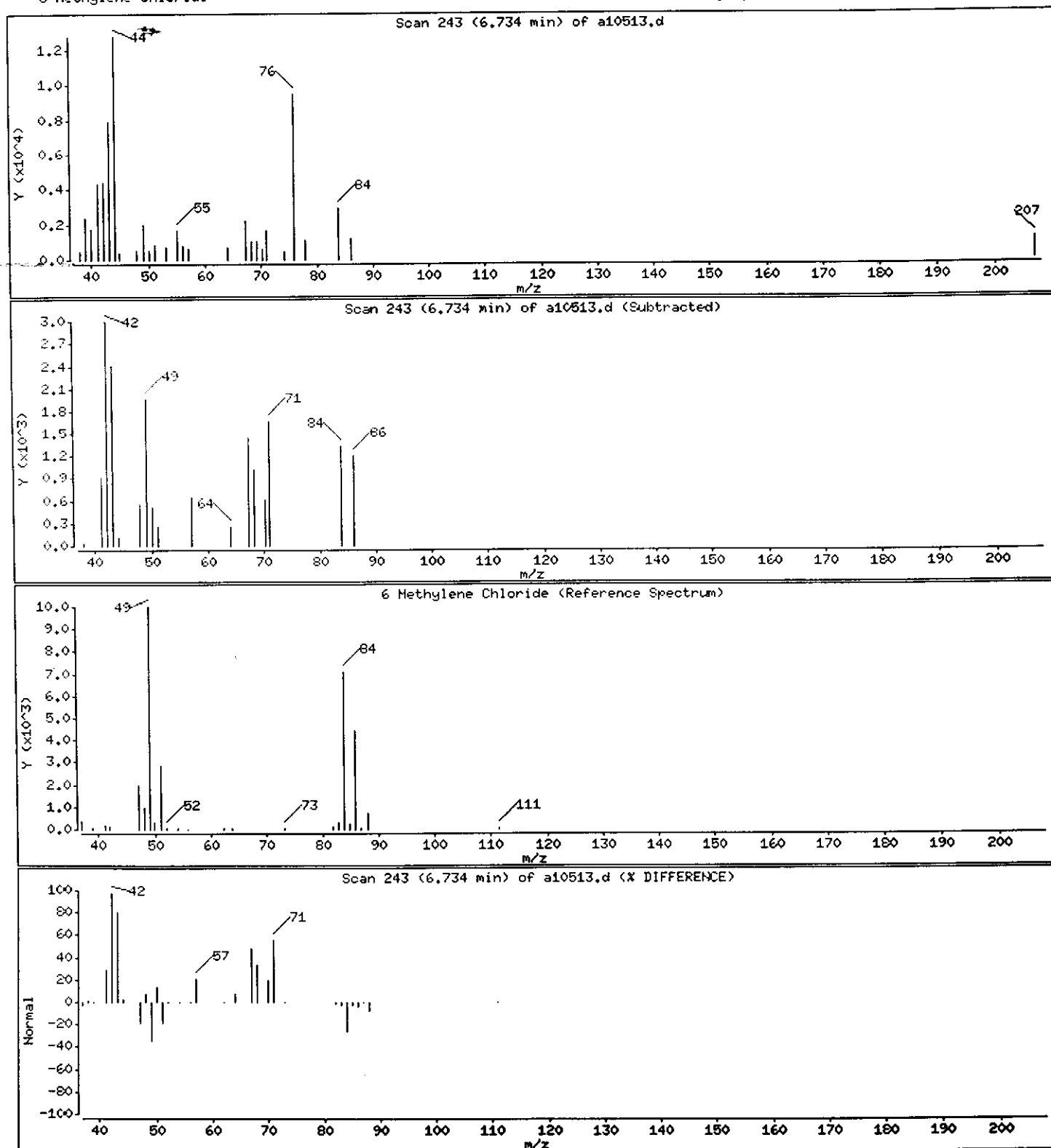
Operator: VOAHS 8

Column phase: DB624

Column diameter: 0.53

6 Methylene Chloride

Concentration: 1.7 ug/Kg



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10513.d

Date : 31-OCT-2000 17:10

Client ID: ES-1_ElShaft_4th

Sample Info: 237829;;40.4;5.35;5

Instrument: VOAMS1.i

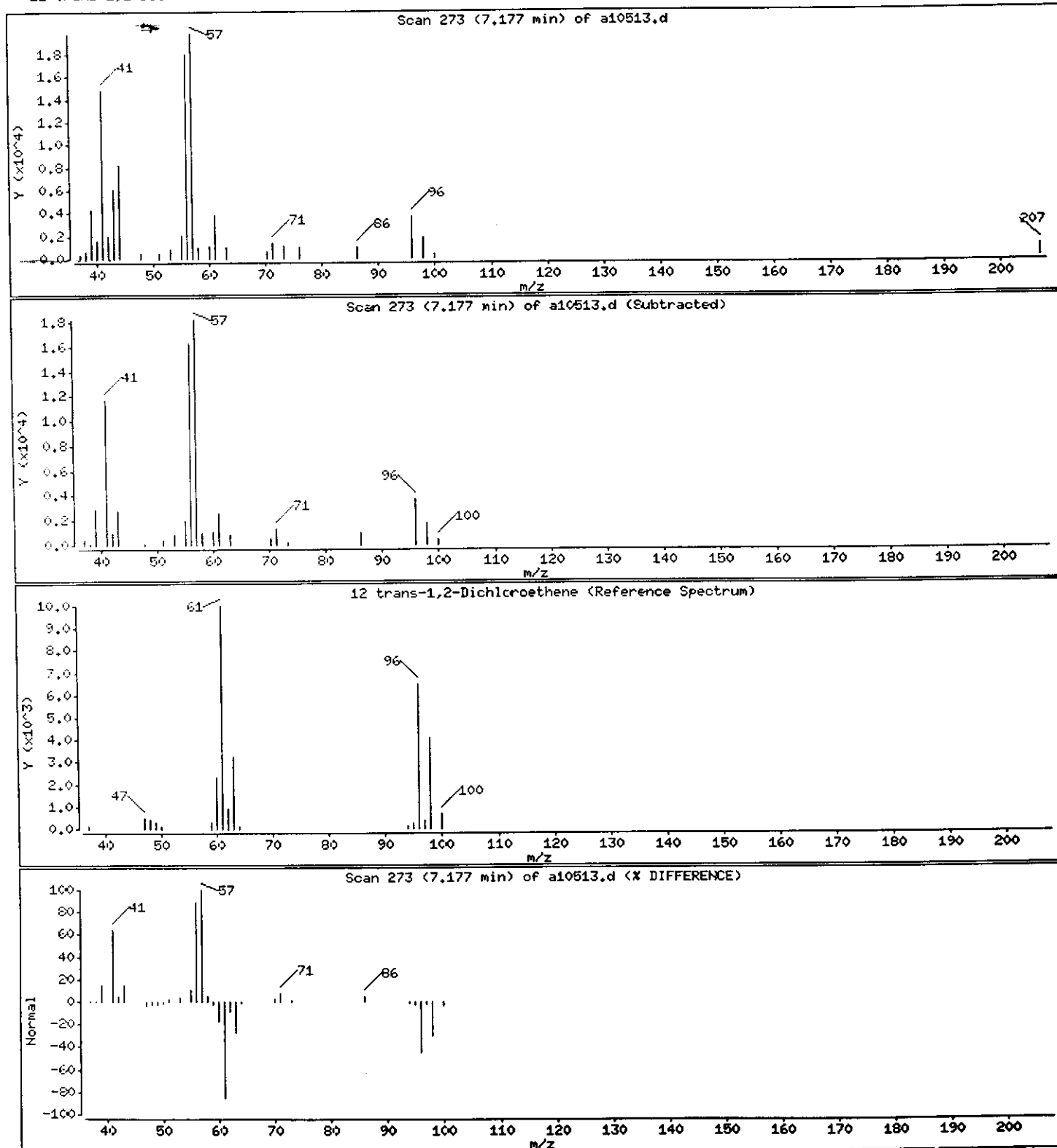
Operator: VOAMS 8

Column diameter: 0.53

Column phase: DB624

Concentration: 2.3 ug/Kg

12 trans-1,2-Dichloroethene



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10513.d

Date : 31-OCT-2000 17:10

Client ID: ES-1_ElShaft_4th

Instrument: VOAMS1.i

Sample Info: 237829;;40.4;5.35;5

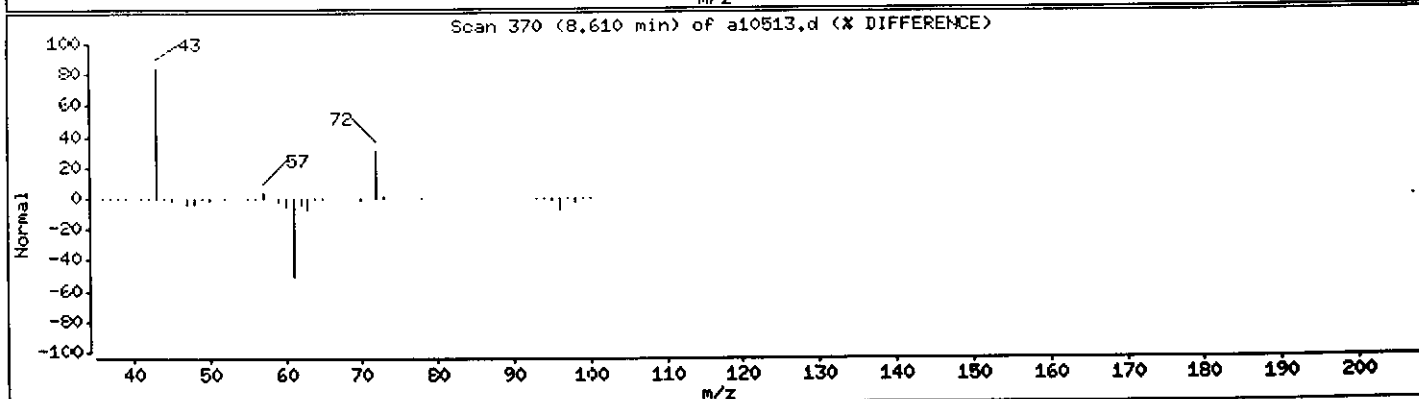
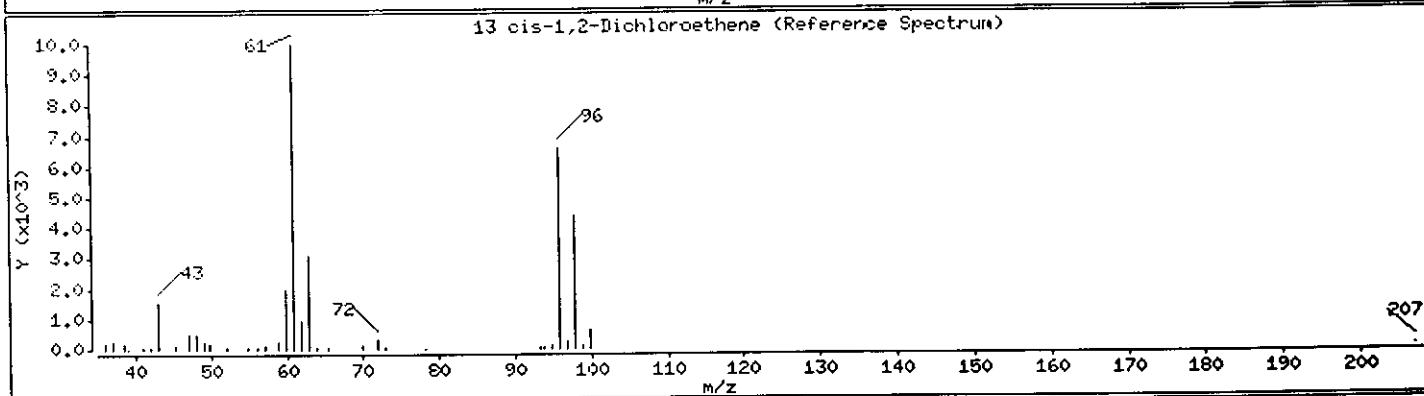
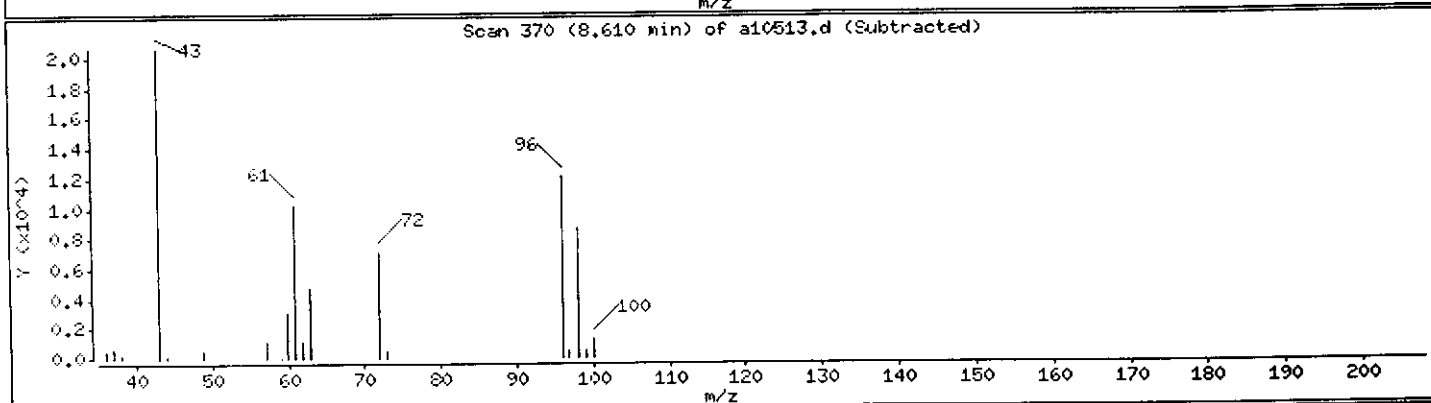
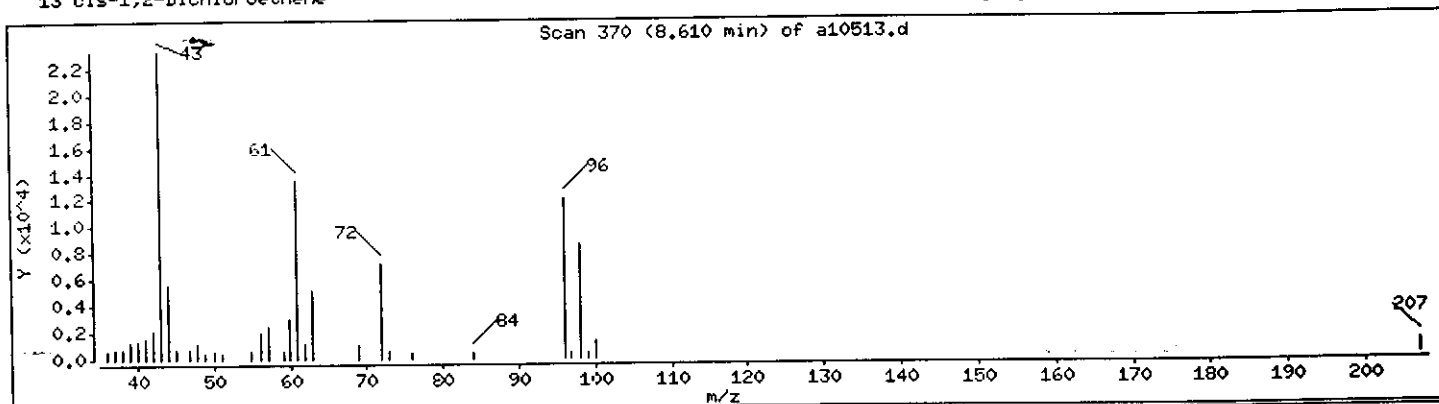
Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

13 cis-1,2-Dichloroethene

Concentration: 7.6 ug/Kg



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10513.d

Date : 31-OCT-2000 17:10

Client ID: ES-1_ElShaft_4th

Sample Info: 237829;;40.4;5.35;5

Instrument: VOAMS1.i

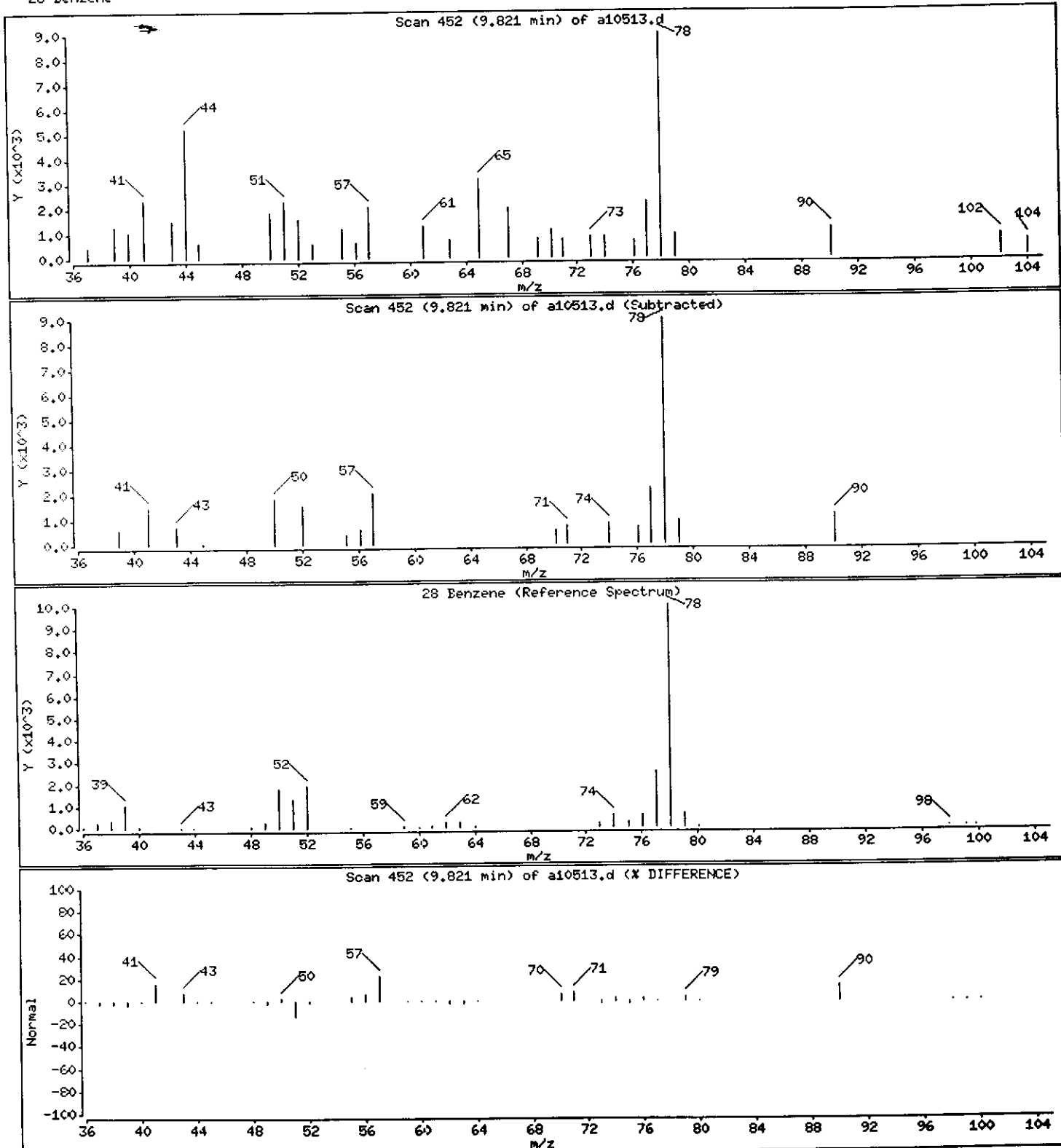
Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Concentration: 3.2 ug/Kg

28 Benzene



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10513.d

Date : 31-OCT-2000 17:10

Client ID: ES-1_E1Shaft_4th

Instrument: VOAMS1.i

Sample Info: 237829;;40.4;5.35;5

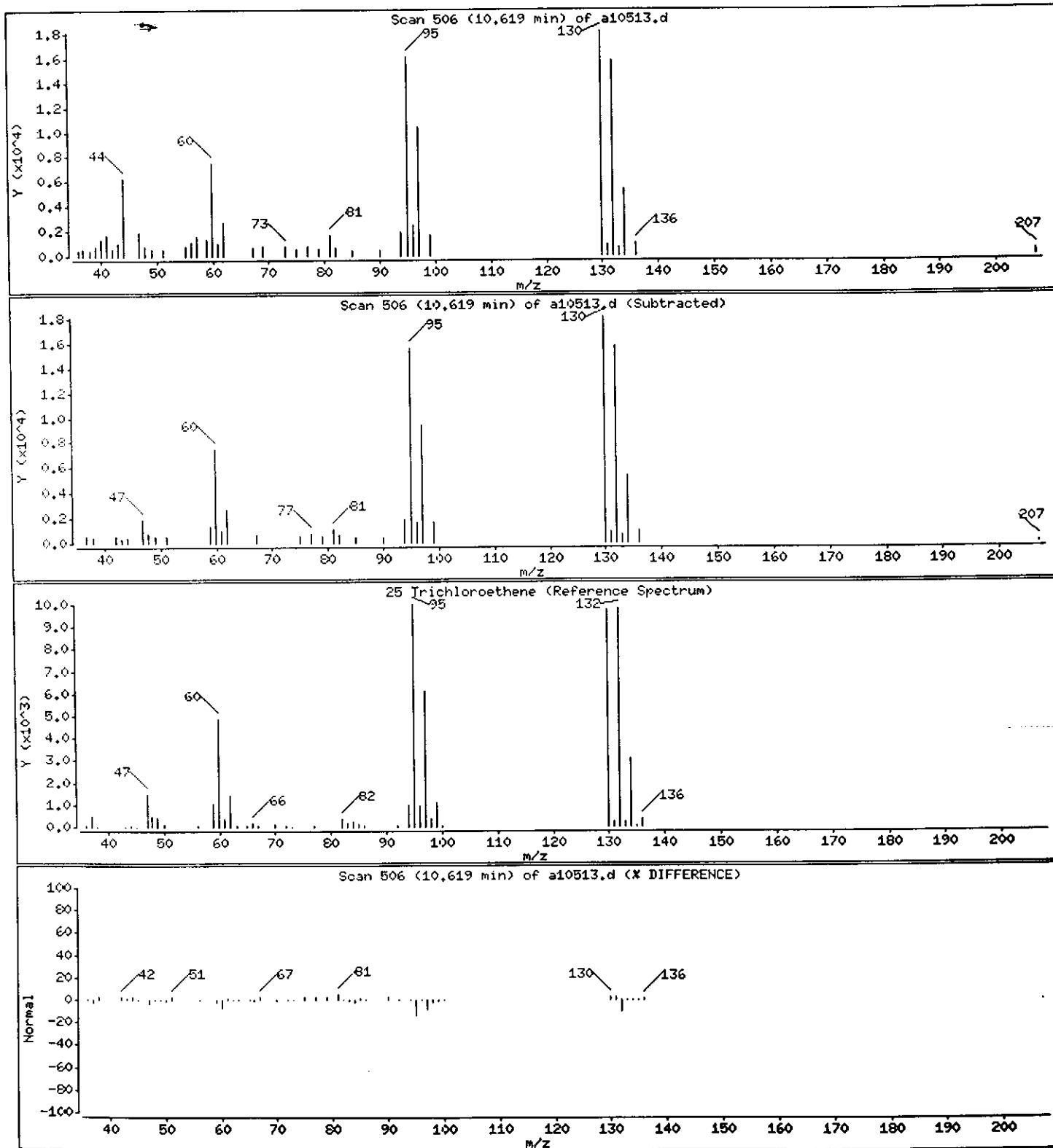
Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

25 Trichloroethene

Concentration: 8.4 ug/Kg



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10513.d

Date : 31-OCT-2000 17:10

Client ID: ES-1_E1Shaft_4th

Instrument: VOAMS1.i

Sample Info: 237829;;40.4;5.35;5

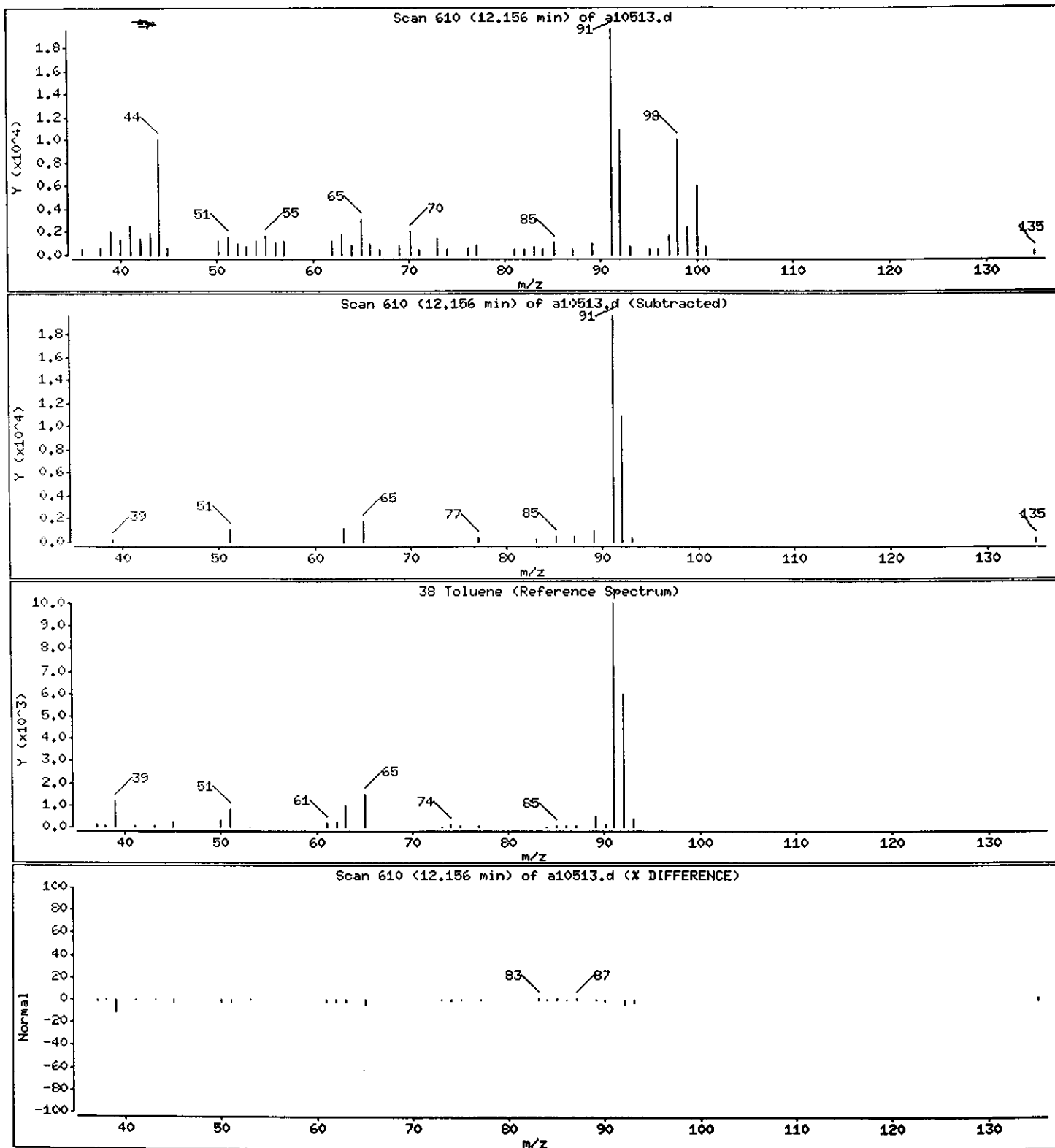
Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

38 Toluene

Concentration: 11 ug/Kg



Data File: /chem/VOAHS1.i/8260LOW_SP/10-20-00/31oct00.b/a10513.d

Date : 31-OCT-2000 17:10

Client ID: ES-1_ElShaft_4th

Instrument: VOAHS1.i

Sample Info: 237829;;40.4;5.35;5

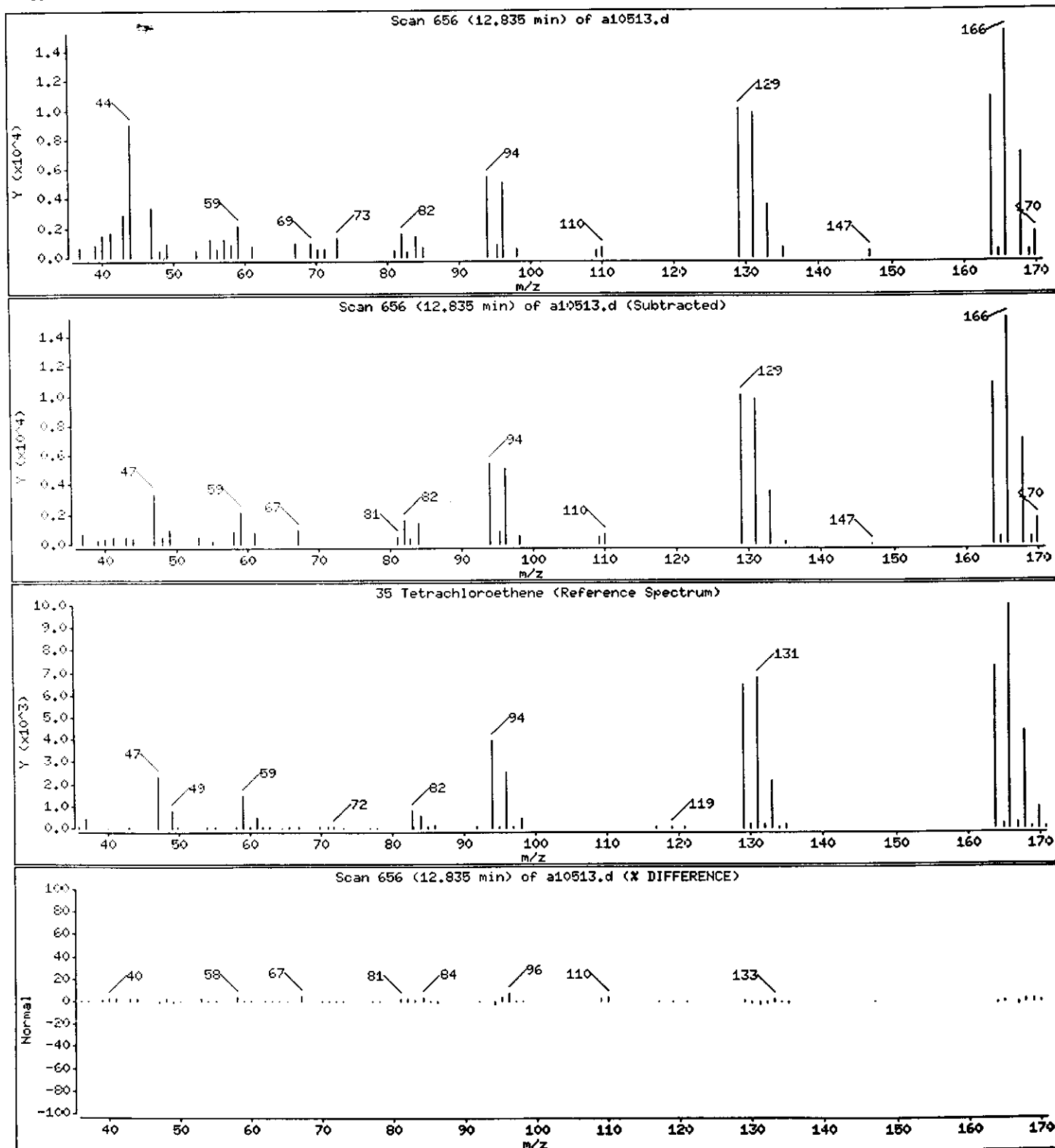
Operator: VOAHS 8

Column phase: DB624

Column diameter: 0.53

35 Tetrachloroethene

Concentration: 12 ug/Kg



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10513.d

Date : 31-OCT-2000 17:10

Client ID: ES-1_ElShaft_4th

Instrument: VOAMS1.i

Sample Info: 237829;;40,4;5,35;5

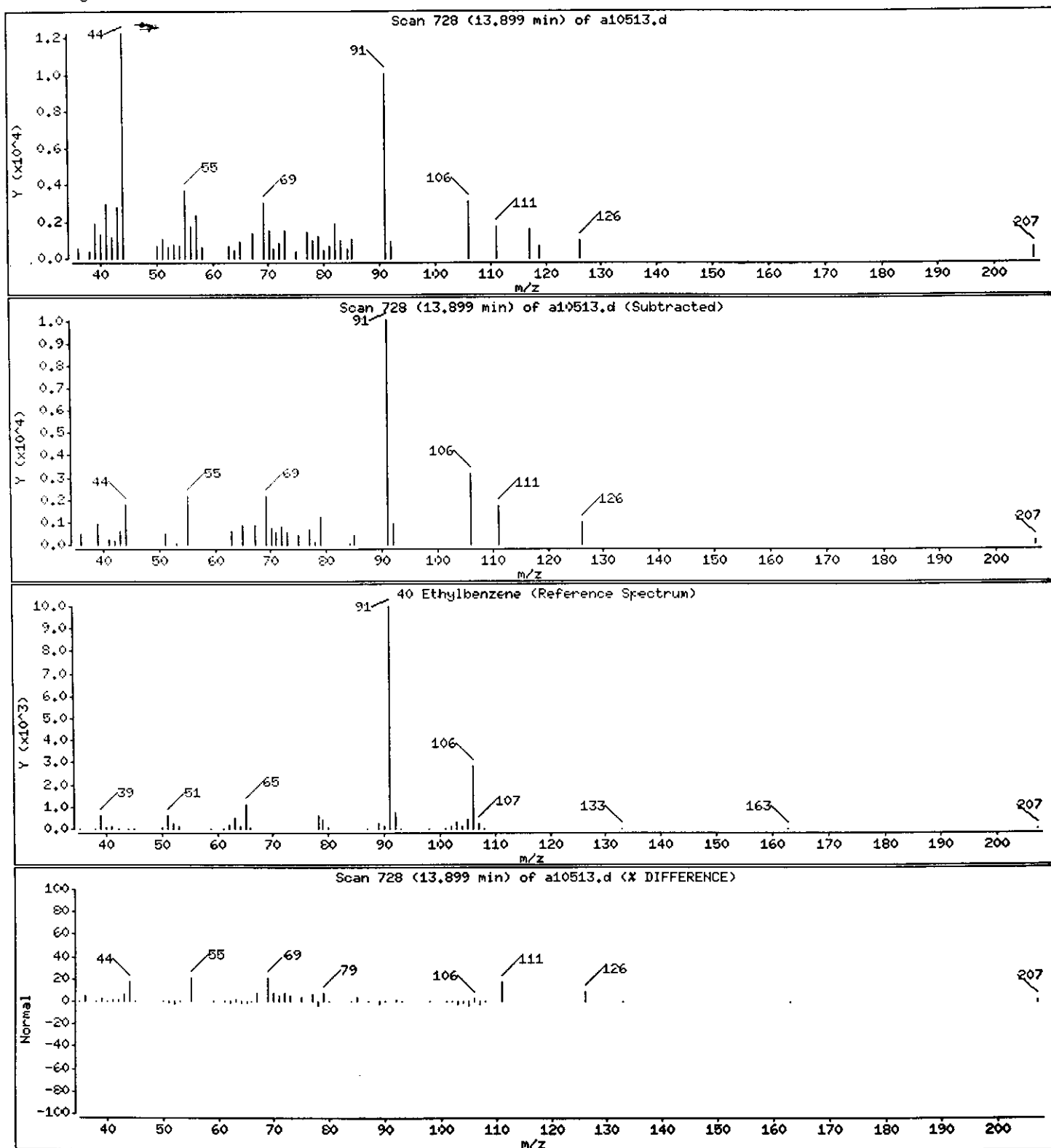
Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

40 Ethylbenzene

Concentration: 4.1 ug/Kg



Data File: /chem/VOAMS1.i/8260LOW_SP/19-20-00/31oct00.b/a10513.d

Date : 31-OCT-2000 17:10

Client ID: ES-1_ElShaft_4th

Instrument: VOAMS1.i

Sample Info: 237829;;40.4;5.35;5

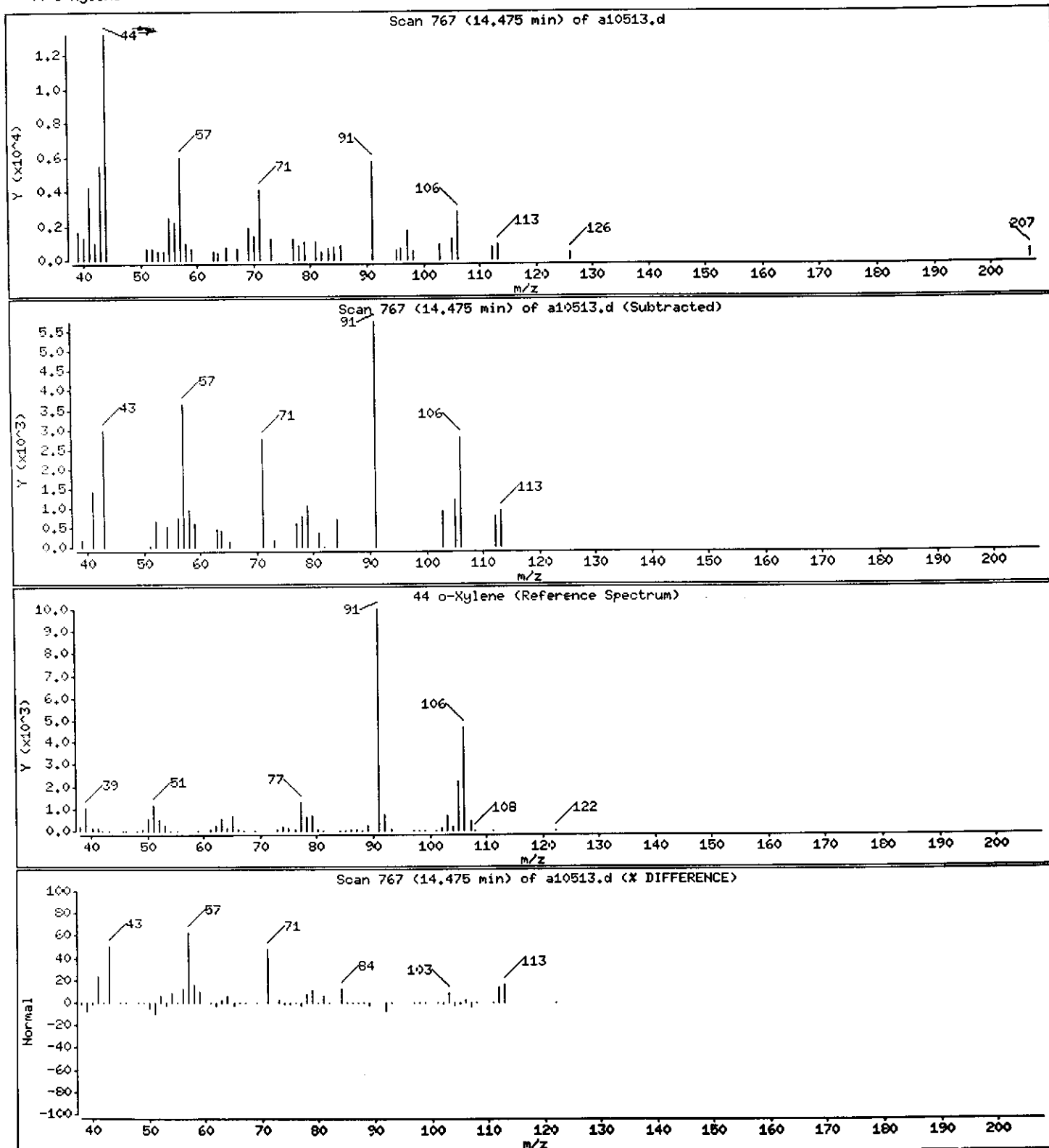
Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

44 o-Xylene

Concentration: 2.9 ug/Kg



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10513.d

Date : 31-OCT-2000 17:10

Client ID: ES-1_ElShaft_4th

Sample Info: 237829;;40.4;5.35;5

Instrument: VOAMS1.i

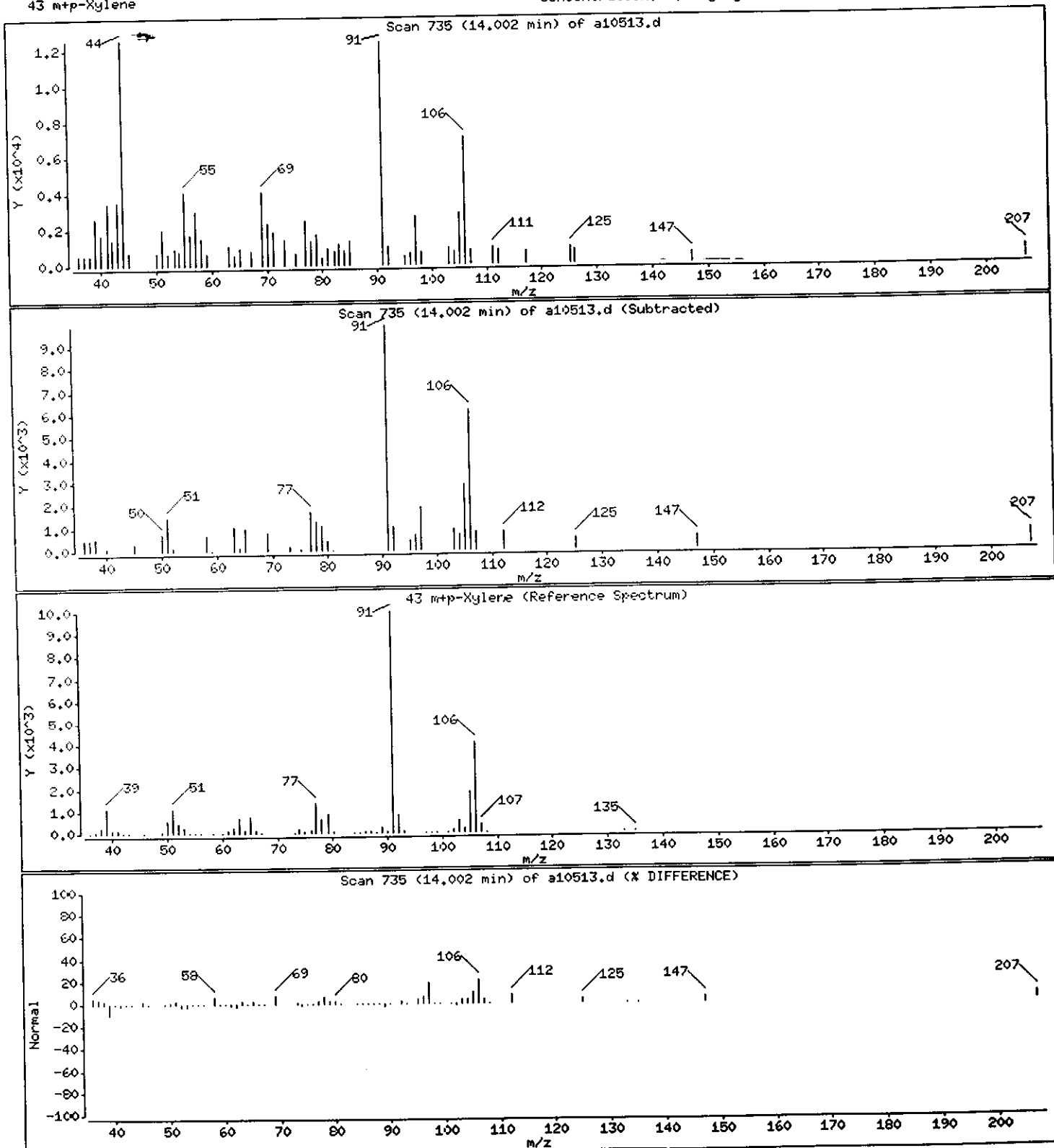
Operator: VOAMS 8

Column diameter: 0.53

Column phase: DB624

Concentration: 8.0 ug/Kg

43 m+p-Xylene



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10513.d

Date : 31-OCT-2000 17:10

Client ID: ES-1_ElShaft_4th

Sample Info: 237829;;40.4;5.35;5

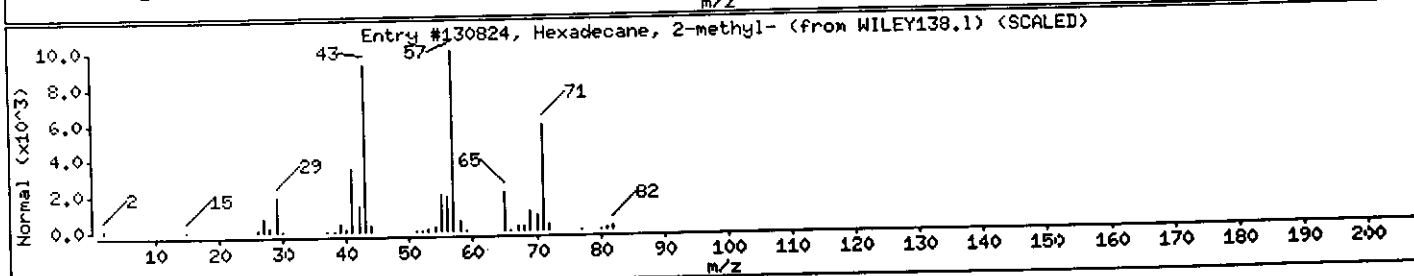
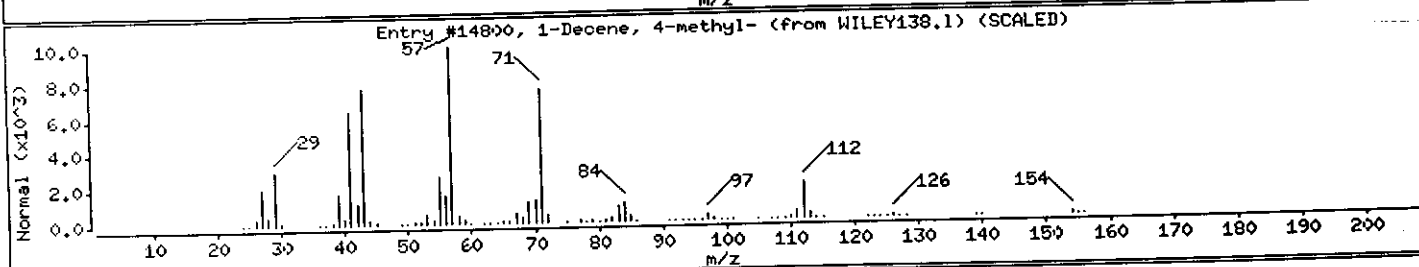
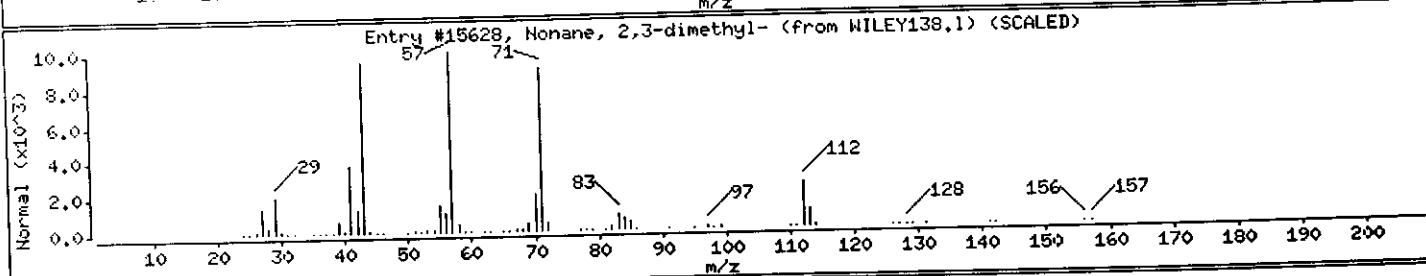
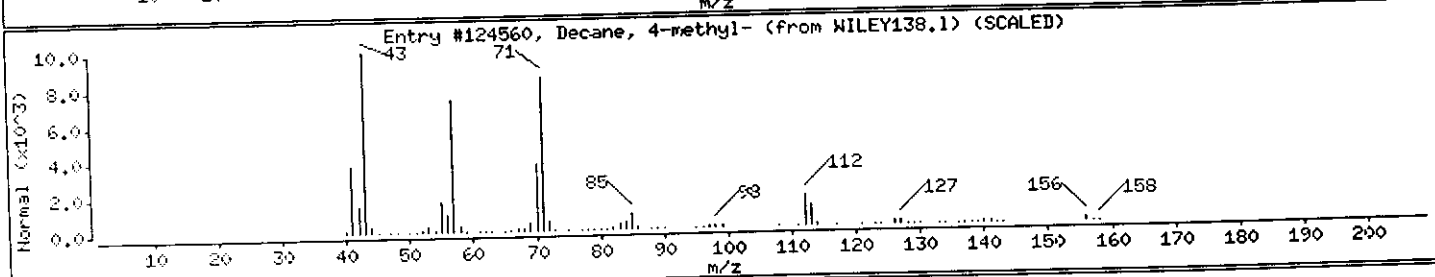
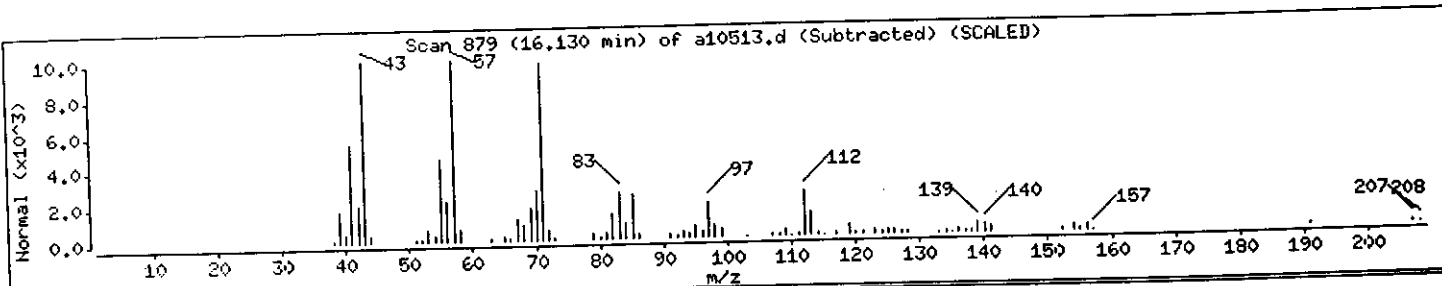
Instrument: VOAMS1.i

Operator: VOAMS 8

Column diameter: 0.53

Column phase: DB624

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
C11H24 Alkane						
Decane, 4-methyl-	2847-72-5	WILEY138.1	124560	64	C11H24	156
Nonane, 2,3-dimethyl-	2884-06-2	WILEY138.1	15628	59	C11H24	156
1-Decene, 4-methyl-	13151-29-6	WILEY138.1	14800	58	C11H22	154
Hexadecane, 2-methyl-	1560-92-5	WILEY138.1	130824	47	C17H36	240



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10513.d

Date : 31-OCT-2000 17:10

Client ID: ES-1_ElShaft_4th

Instrument: VOAMS1.i

Sample Info: 237829;;40.4;5.35;5

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match

C11H24 Alkane

Undecane

Dodecane

Tetradecane

Pentadecane

CAS Number

Library

Entry

Quality

Formula

Weight

1120-21-4

WILEY138.1

124548

93

C11H24

156

112-40-3

WILEY138.1

126002

80

C12H26

170

629-59-4

WILEY138.1

128274

72

C14H30

198

629-62-9

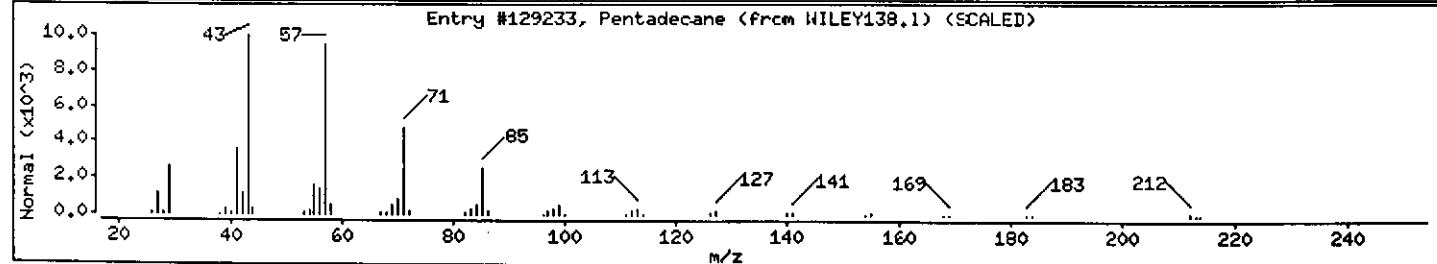
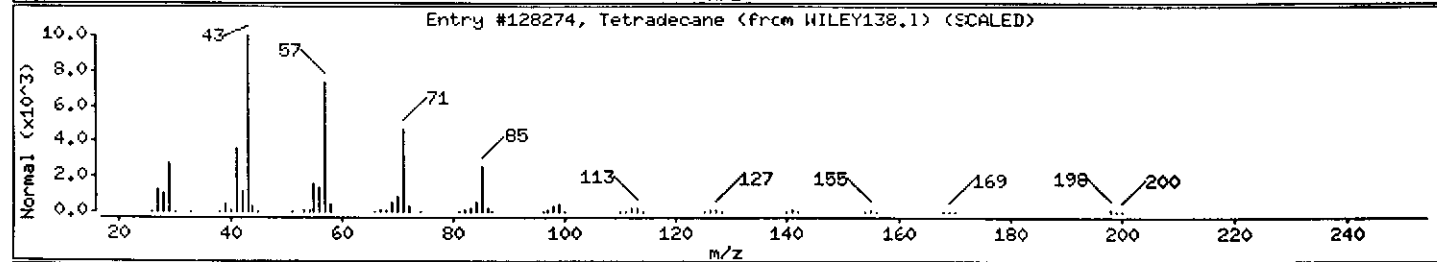
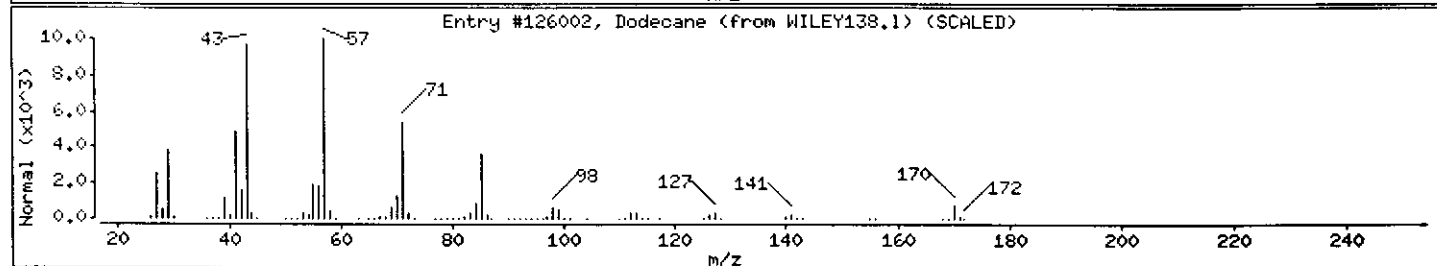
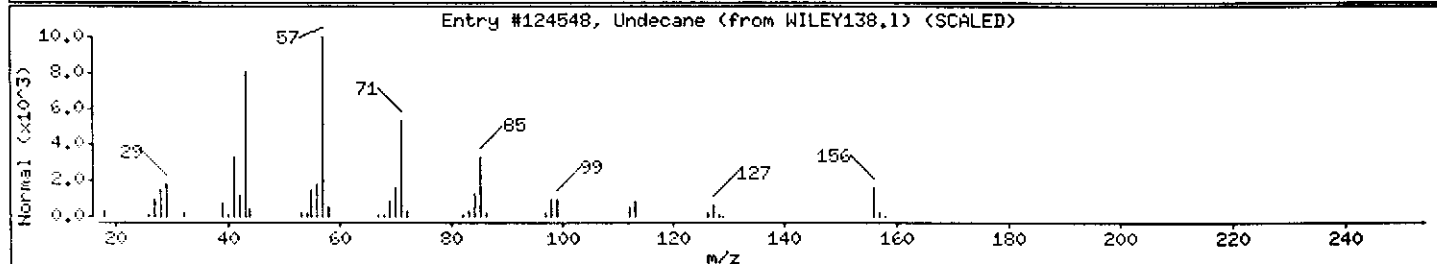
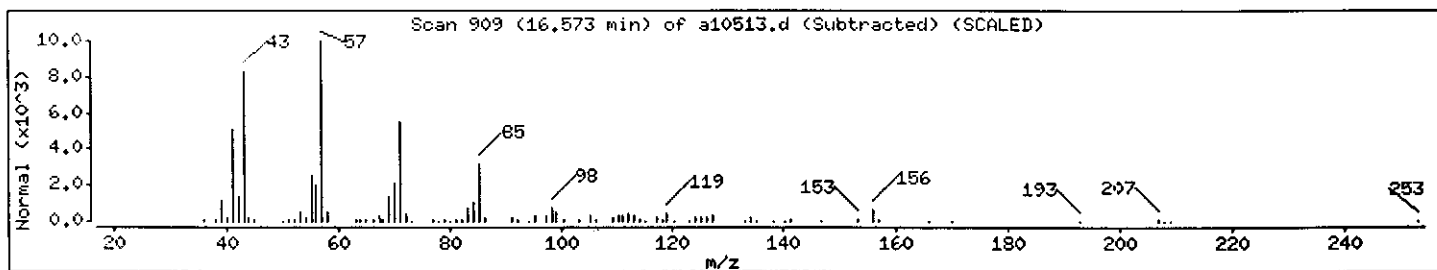
WILEY138.1

129233

72

C15H32

212



Data File: /chem/VOAMS1.1/8260LOW_SP/10-20-00/31oct00.b/a10513.d

Date : 31-OCT-2000 17:10

Client ID: ES-1_ElShaft_4th

Instrument: VOAMS1.i

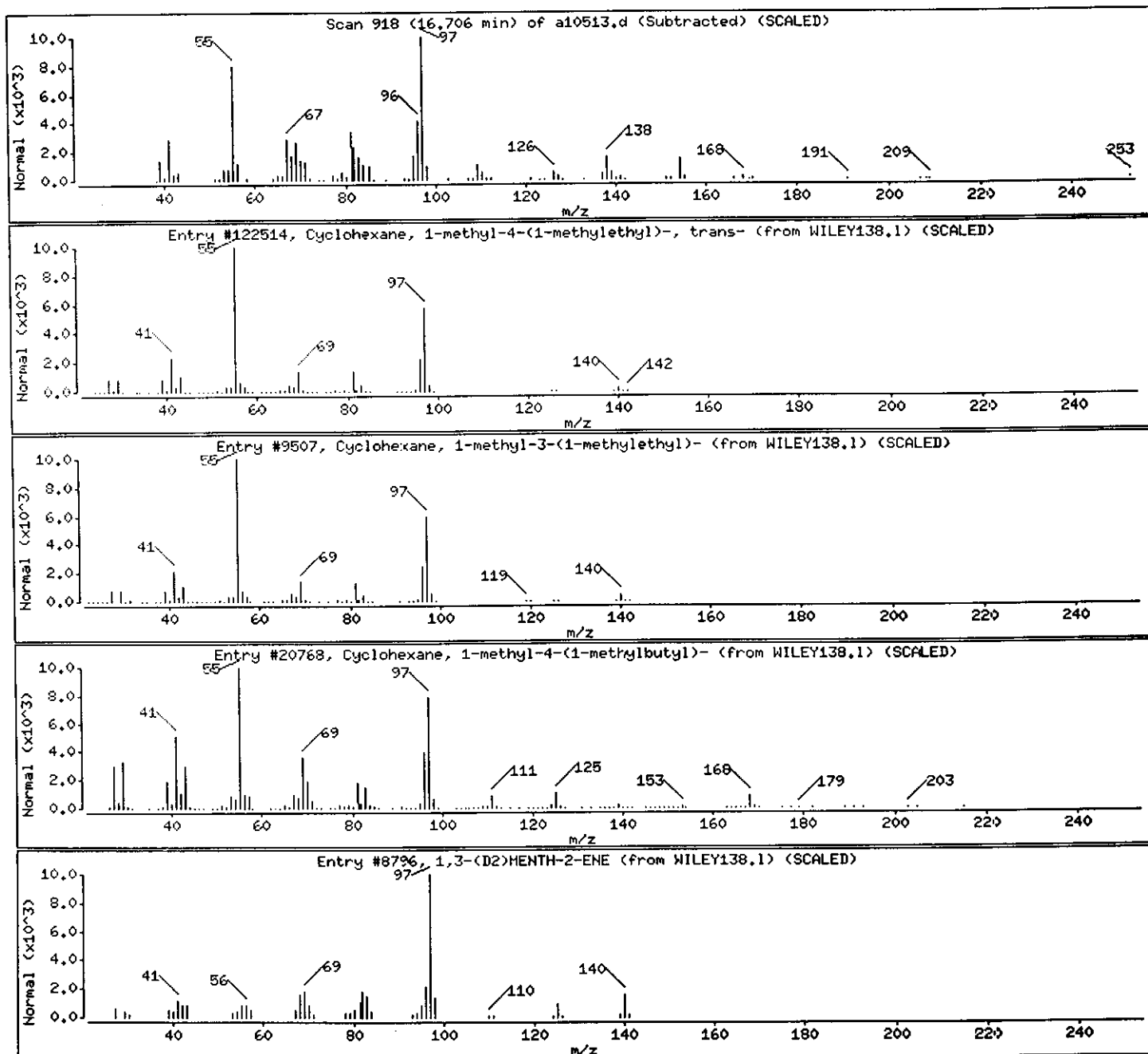
Sample Info: 237829;;40.4;5.35;5

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
C11H22 Cycloalkane						
Cyclohexane, 1-methyl-4-(1-methylethyl)-	1678-82-6	WILEY138.1	122514	50	C10H20	140
Cyclohexane, 1-methyl-3-(1-methylethyl)-	16580-24-8	WILEY138.1	9507	50	C10H20	140
Cyclohexane, 1-methyl-4-(1-methylbutyl)-	54411-00-6	WILEY138.1	20768	50	C12H24	168
1,3-(D2)Menth-2-ENE	5503-89-9	WILEY138.1	8796	47	C10H16I2	138



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10513.d

Date : 31-OCT-2000 17:10

Client ID: ES-1_ElShaft_4th

Instrument: VOAMS1.i

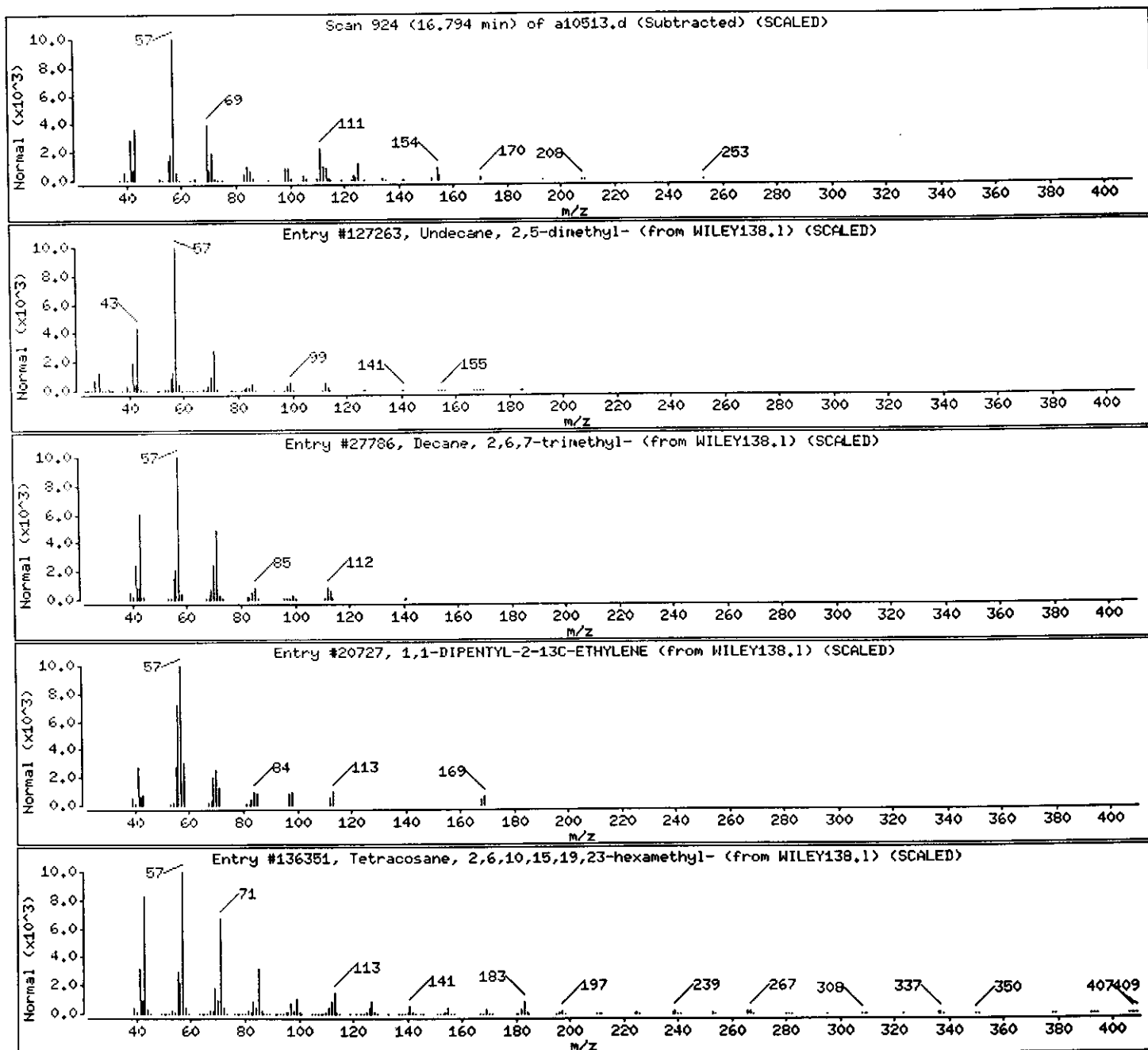
Sample Info: 237829;;40.4;5.35;5

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
C12H26 Alkane						
Undecane, 2,5-dimethyl-	17301-22-3	WILEY138.1	127263	43	C13H28	184
Decane, 2,6,7-trimethyl-	62108-25-2	WILEY138.1	27786	37	C13H28	184
1,1-DIPENTYL-2-13C-ETHYLENE	33717-94-1	WILEY138.1	20727	35	C1113CH24	168
Tetracosane, 2,6,10,15,19,23-hexamethyl-	111-01-3	WILEY138.1	136351	27	C30H62	422



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10513.d

Date : 31-OCT-2000 17:10

Client ID: ES-1_ElShaft_4th

Instrument: VOAMS1.i

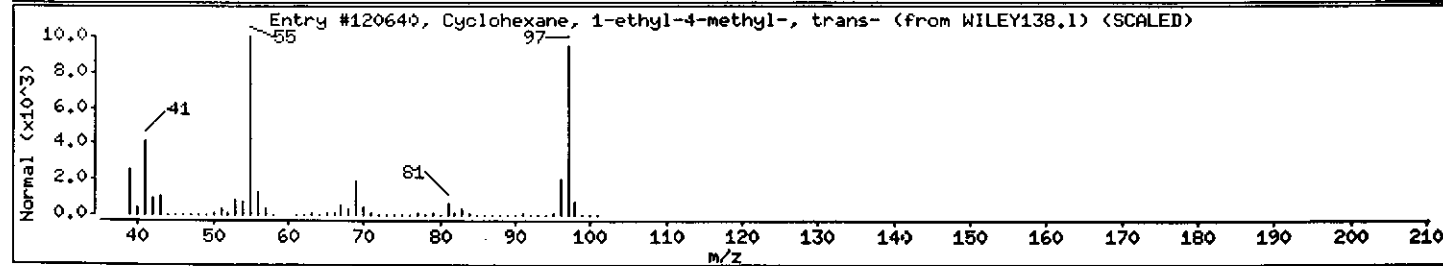
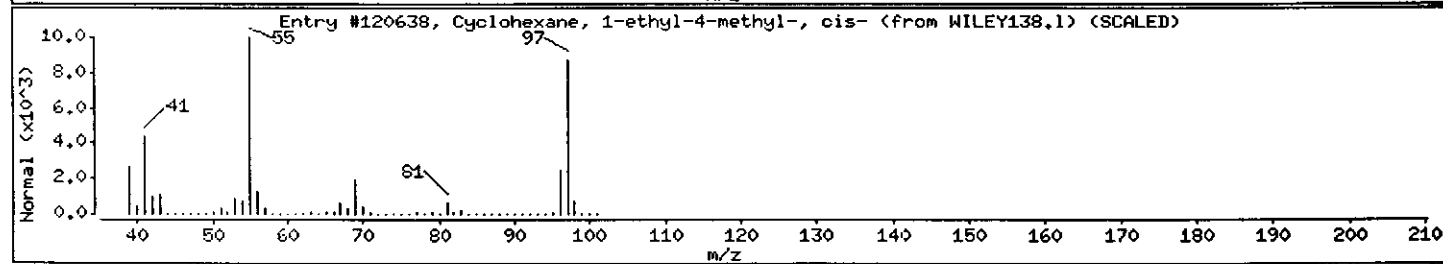
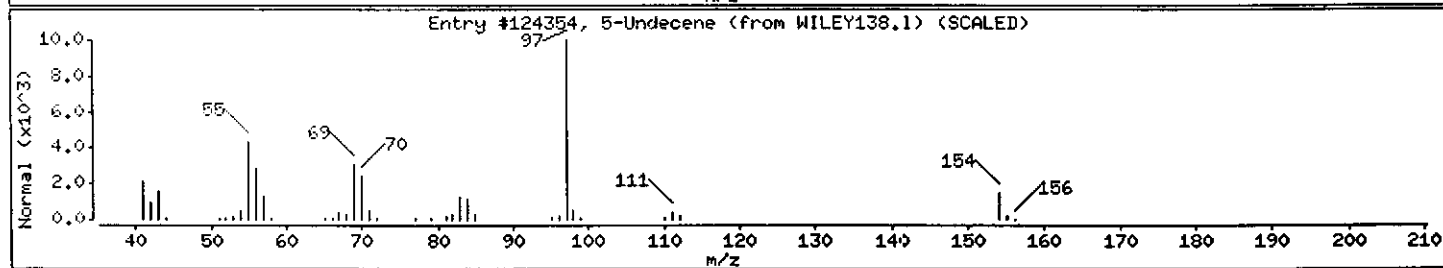
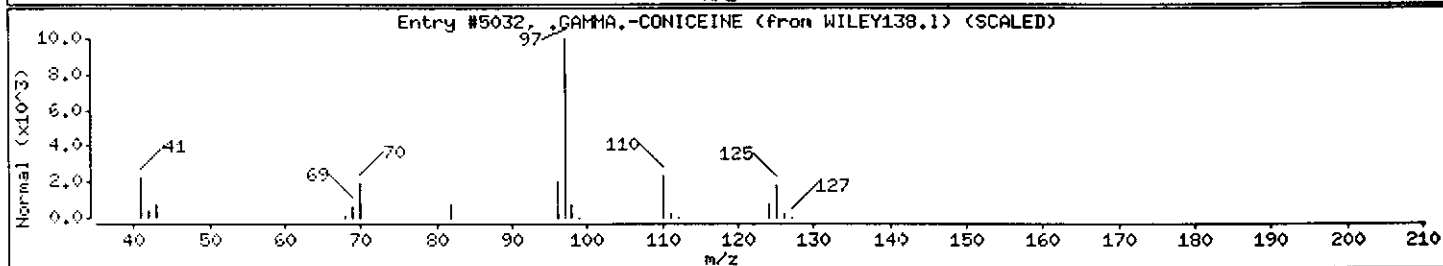
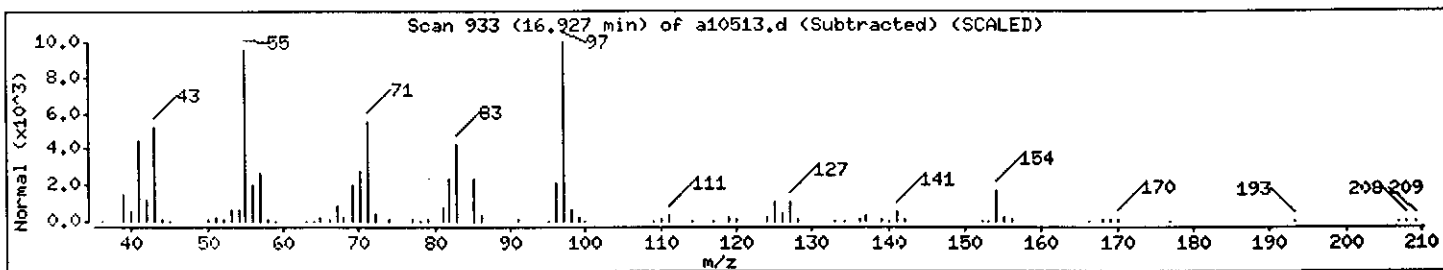
Sample Info: 237829;;40.4;5.35;5

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
C11H22 Cycloalkane						
.GAMMA.-CONICEINE	0-00-0	WILEY138.1	5032	35	C8H15N	125
5-Undecene	4941-53-1	WILEY138.1	124354	35	C11H22	154
Cyclohexane, 1-ethyl-4-methyl-, cis-	4926-78-7	WILEY138.1	120638	30	C9H18	126
Cyclohexane, 1-ethyl-4-methyl-, trans-	6236-68-0	WILEY138.1	120640	27	C9H18	126



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10513.d

Date : 31-OCT-2000 17:10

Client ID: ES-1_ElShaft_4th

Instrument: VOAMS1.i

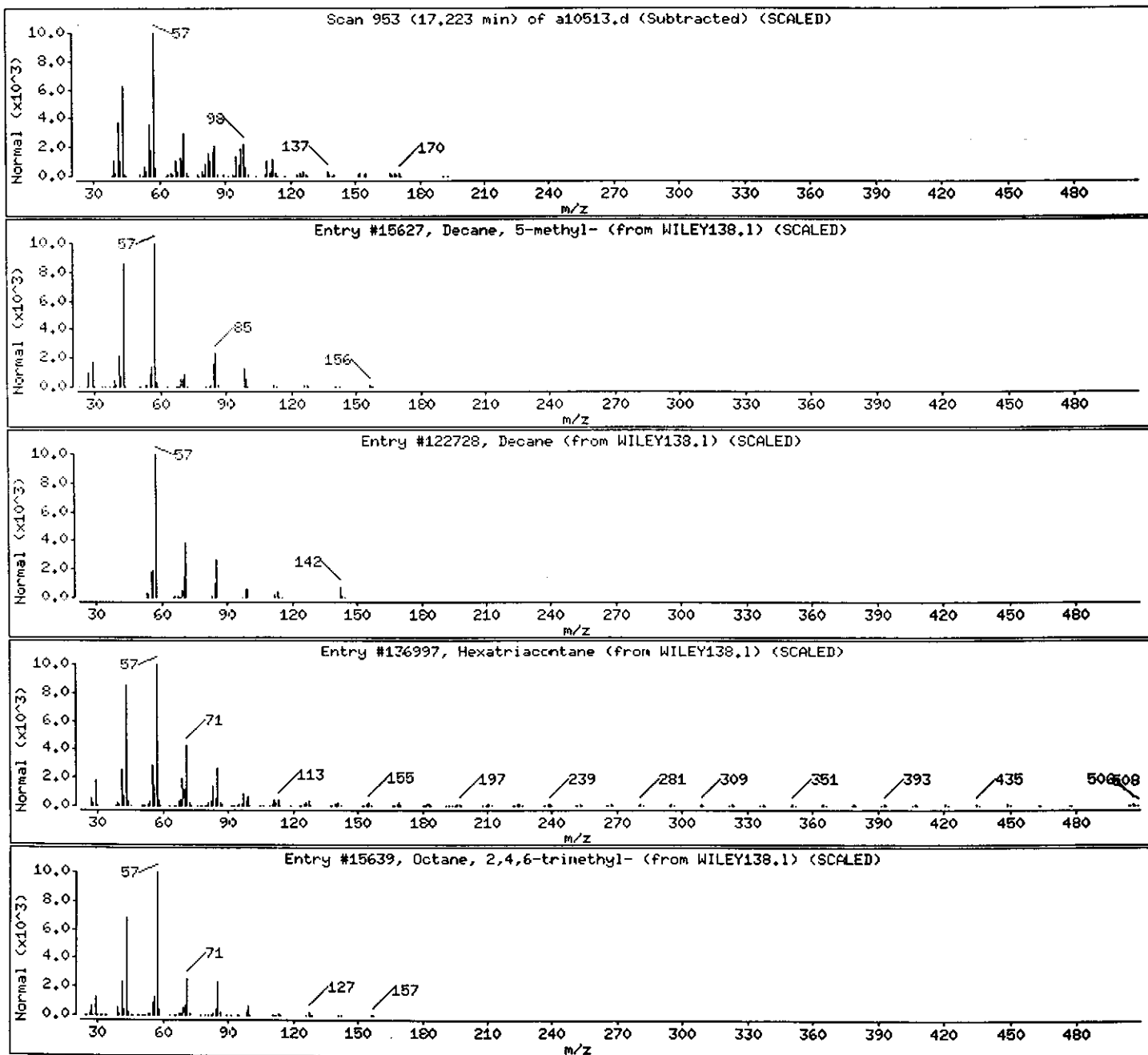
Sample Info: 237829;;40.4;5.35;5

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
C12H26 Alkane						
Decane, 5-methyl-	13151-35-4	WILEY138.1	15627	35	C11H24	156
Decane	124-18-5	WILEY138.1	122728	35	C10H22	142
Hexatriacontane	630-06-8	WILEY138.1	136997	35	C36H74	507
Octane, 2,4,6-trimethyl-	62016-37-9	WILEY138.1	15639	35	C11H24	156



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10513.d

Date : 31-OCT-2000 17:10

Client ID: ES-1_ElShaft_4th

Instrument: VOAMS1.i

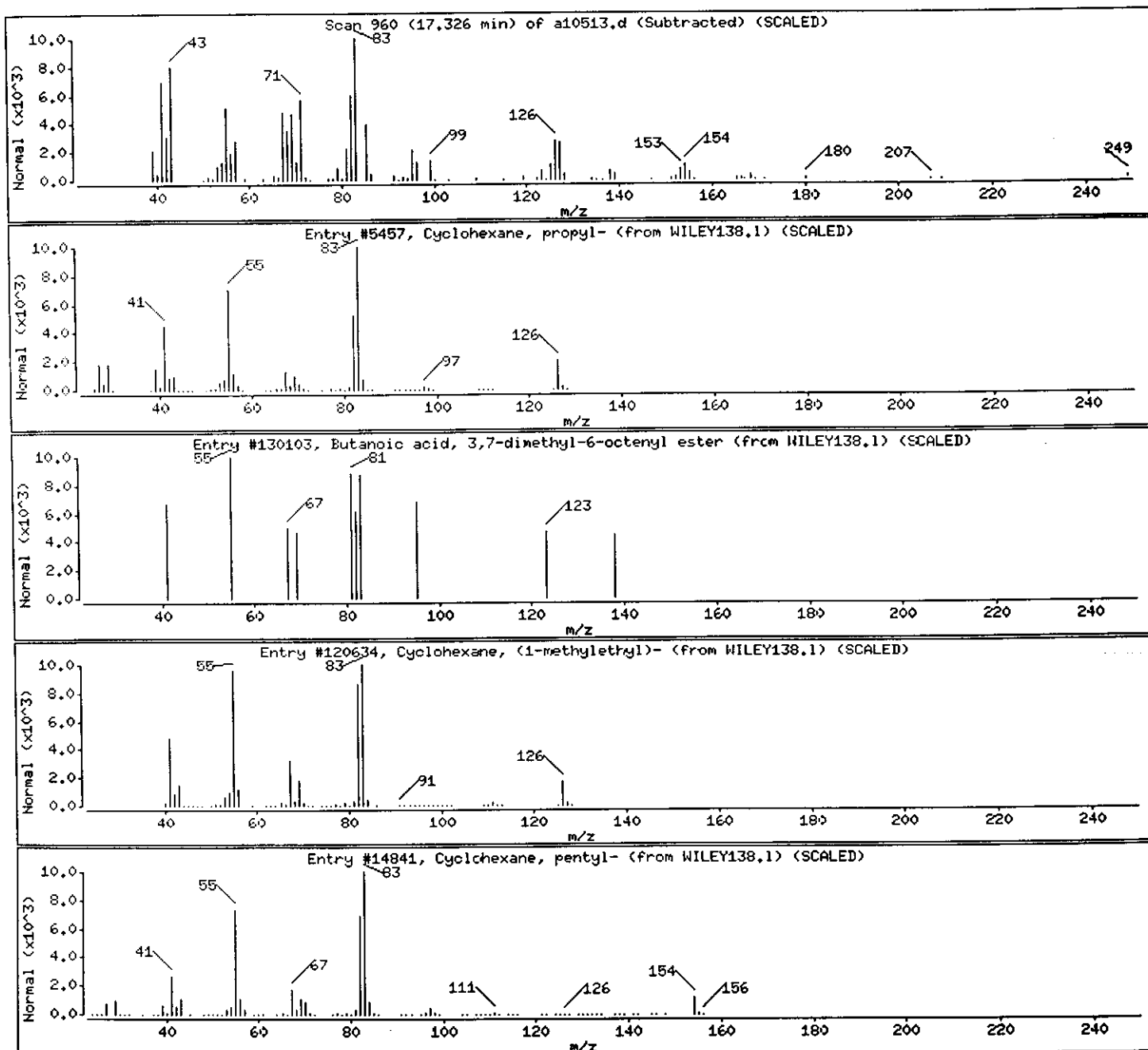
Sample Info: 237829;;40.4;5.35;5

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
C12H24 Cycloalkane						
Cyclohexane, propyl-	1678-92-8	WILEY138.1	5457	38	C9H18	126
Butanoic acid, 3,7-dimethyl-6-octenyl es	141-16-2	WILEY138.1	130103	38	C14H26O2	226
Cyclohexane, (1-methylethyl)-	696-29-7	WILEY138.1	120634	35	C9H18	126
Cyclohexane, pentyl-	4292-92-6	WILEY138.1	14841	30	C11H22	154



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10513.d

Date : 31-OCT-2000 17:10

Client ID: ES-1_ElShaft_4th

Instrument: VOAMS1.i

Sample Info: 237829;;40.4;5.35;5

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match

Unknown

Pulegone

CAS Number

Library

Entry

Quality

Formula

Weight

89-82-7

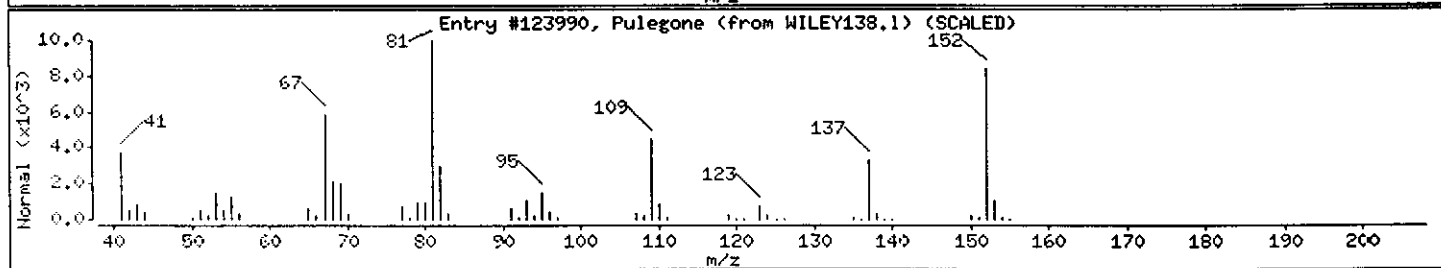
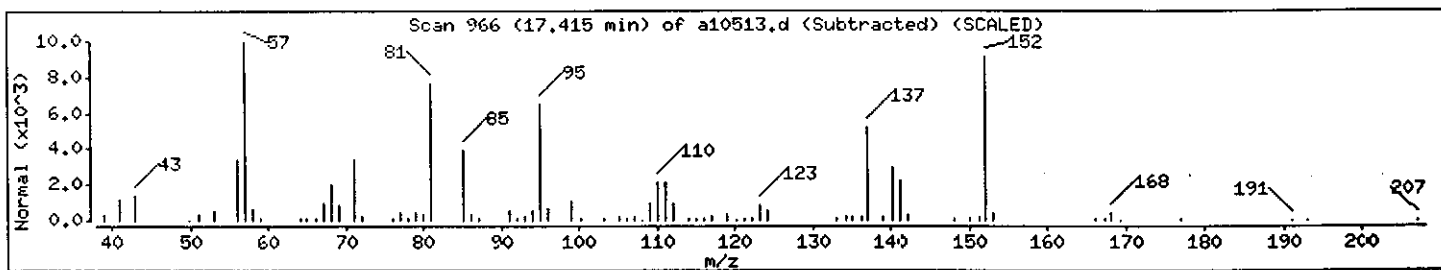
WILEY138.1

123990

32

C10H16O

152



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10513.d

Date : 31-OCT-2000 17:10

Client ID: ES-1_ElShaft_4th

Instrument: VOAMS1.i

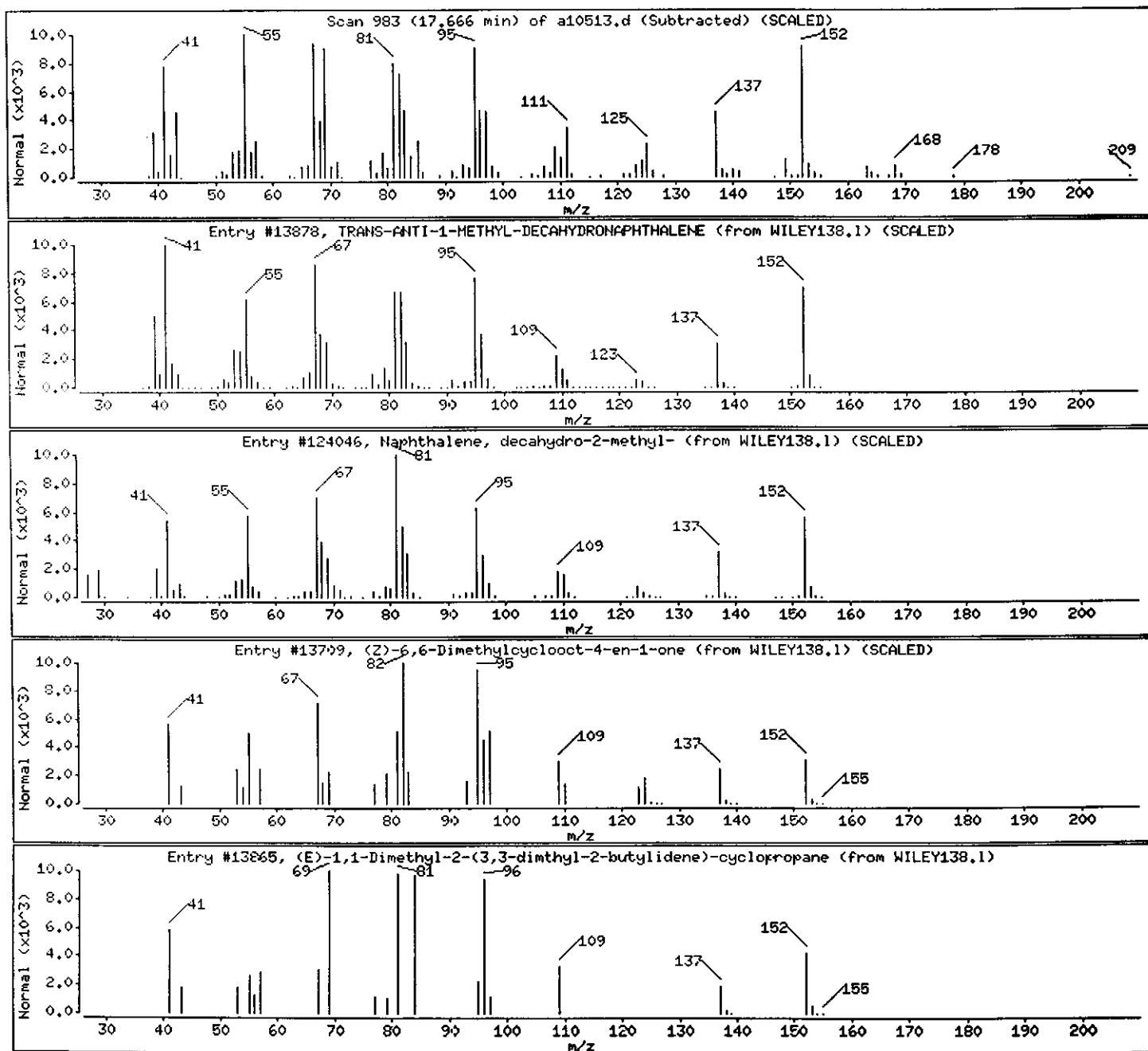
Sample Info: 237829;;4;4;5;35;5

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Decahydromethylnaphthalene isomer						
TRANS-ANTI-1-METHYL-DECAHYDRONAPHTHALENE	0-00-0	WILEY138.1	13878	90	C11H20	152
Naphthalene, decahydro-2-methyl-	2958-76-1	WILEY138.1	124046	70	C11H20	152
(Z)-6,6-Dimethylcyclooct-4-en-1-one	91531-64-5	WILEY138.1	13709	58	C10H16O	152
(E)-1,1-Dimethyl-2-(3,3-dimethyl-2-butyli	85851-40-7	WILEY138.1	13865	49	C11H20	152



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10513.d

Date : 31-OCT-2000 17:10

Client ID: ES-1_ElShaft_4th

Instrument: VOAMS1.1

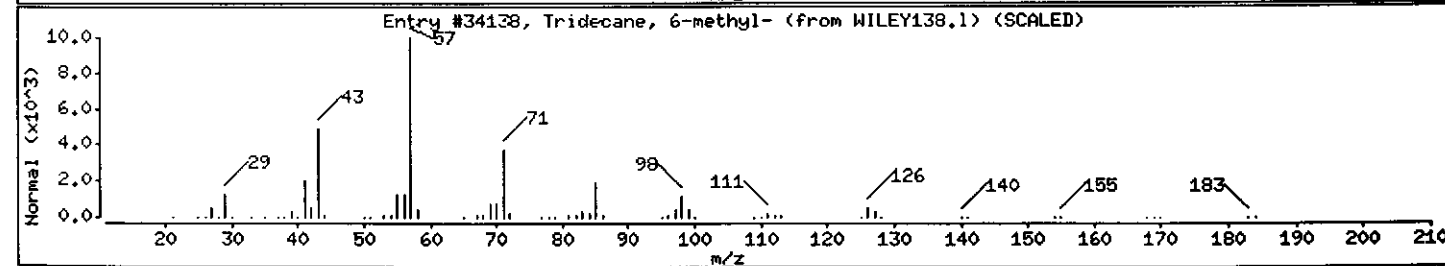
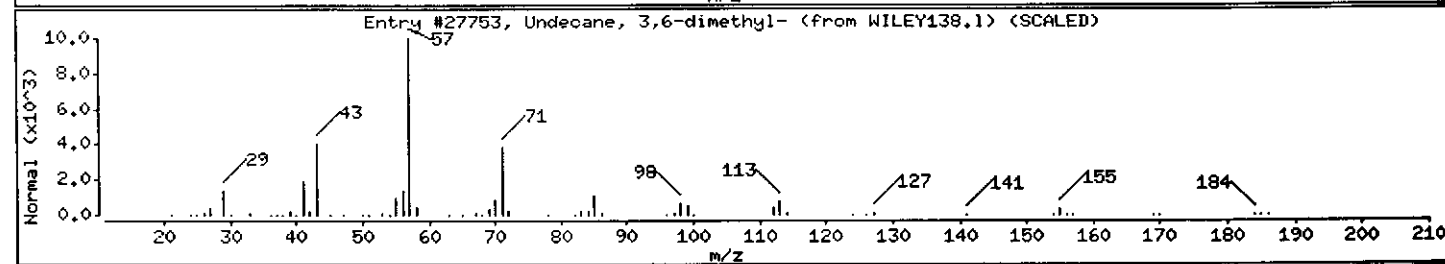
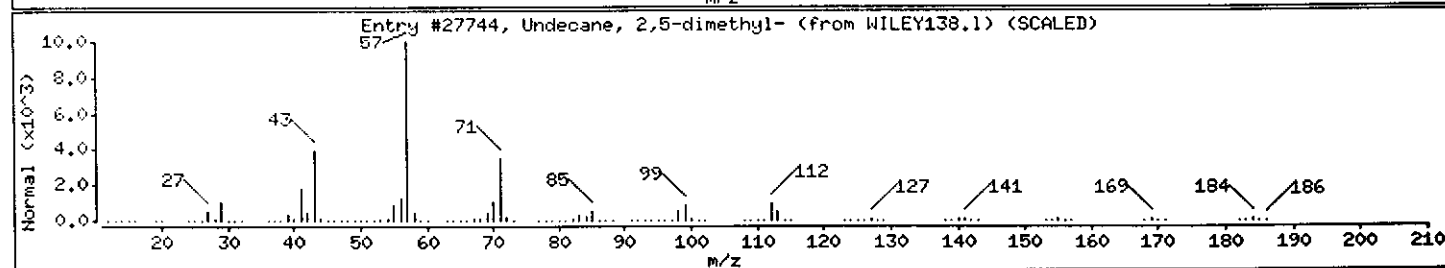
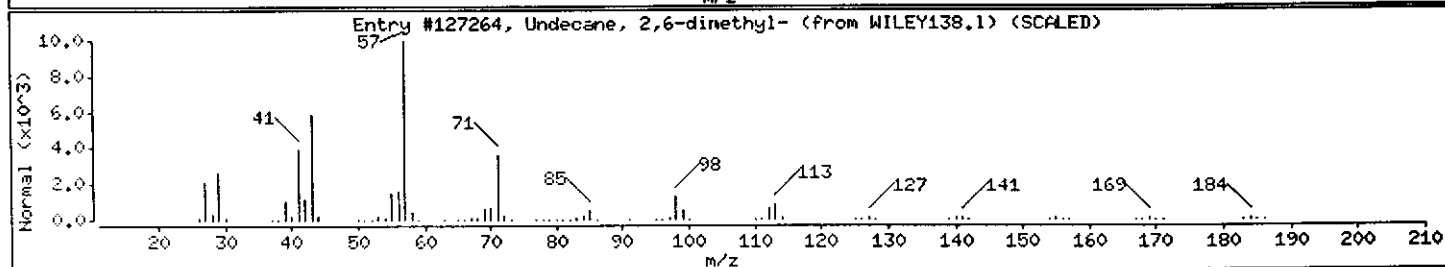
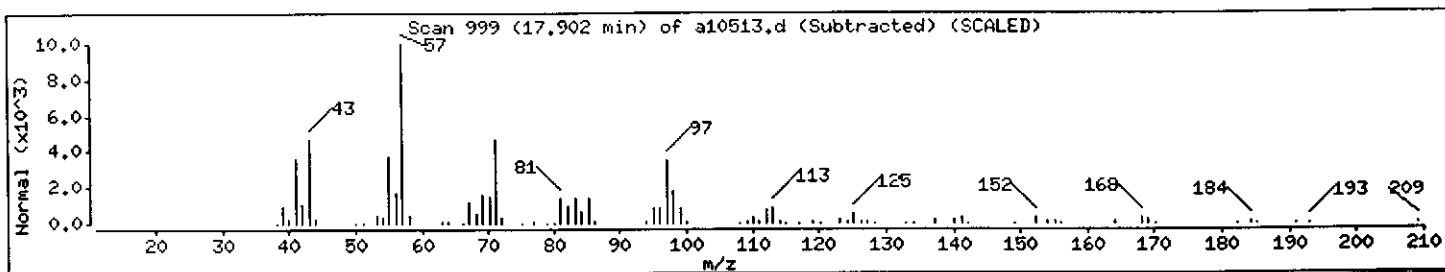
Sample Info: 237829;;40.4;5.35;5

Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
C13H28 Alkane						
Undecane, 2,6-dimethyl-	17301-23-4	WILEY138.1	127264	64	C13H28	184
Undecane, 2,5-dimethyl-	17301-22-3	WILEY138.1	27744	53	C13H28	184
Undecane, 3,6-dimethyl-	17301-28-9	WILEY138.1	27753	50	C13H28	184
Tridecane, 6-methyl-	13287-21-3	WILEY138.1	34138	47	C14H30	198



Client ID: Trip_Blank-2
Site: Rexam DSI

Lab Sample No: 237830
Lab Job No: F104

Date Sampled: 10/24/00
Date Received: 10/27/00
Date Analyzed: 10/30/00
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v22794.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 624

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u> <u>Limit</u> <u>Units: ug/l</u>
Chloromethane	ND	0.5
Bromomethane	ND	0.3
Vinyl Chloride	ND	0.6
Chloroethane	ND	0.4
Methylene Chloride	ND	0.8
Trichlorofluoromethane	ND	0.3
1,1-Dichloroethene	ND	0.4
1,1-Dichloroethane	ND	0.4
trans-1,2-Dichloroethene	ND	0.4
cis-1,2-Dichloroethene	ND	0.4
Chloroform	ND	0.2
1,2-Dichloroethane	ND	0.2
1,1,1-Trichloroethane	ND	0.3
Carbon Tetrachloride	ND	0.4
Bromodichloromethane	ND	0.2
1,2-Dichloropropane	ND	0.2
cis-1,3-Dichloropropene	ND	0.1
Trichloroethene	ND	0.4
Dibromochloromethane	ND	0.2
1,1,2-Trichloroethane	ND	0.3
Benzene	ND	0.3
trans-1,3-Dichloropropene	ND	0.3
2-Chloroethyl Vinyl Ether	ND	0.5
Bromoform	ND	0.1
Tetrachloroethene	ND	0.3
1,1,2,2-Tetrachloroethane	ND	0.1
Toluene	ND	0.3
Chlorobenzene	ND	0.2
Ethylbenzene	ND	0.3
Xylene (Total)	ND	0.3

Client ID: Trip_Blank-2
Site: Rexam DSI

Lab Sample No: 237830
Lab Job No: F104

Date Sampled: 10/24/00
Date Received: 10/27/00
Date Analyzed: 10/30/00
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v22794.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 624

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

Data File: /chem/VOAMS7.i/624/10-24-00/30oct00.b/v22794.d
Report Date: 31-Oct-2000 09:50

STL Envirotech

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS7.i/624/10-24-00/30oct00.b/v22794.d
Lab Smp Id: 237830 Client Smp ID: Trip_Blank-2
Inj Date : 30-OCT-2000 23:47
Operator : VOAMS 6 Inst ID: VOAMS7.i
Smp Info : 237830
Misc Info : F104;3567;;MR
Comment :
Method : /chem/VOAMS7.i/624/10-24-00/30oct00.b/624 00.m
Meth Date : 30-Oct-2000 11:07 riaz Quant Type: ISTD
Cal Date : 24-OCT-2000 16:39 Cal File: v22496.d
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPVOAv.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	5.00000	Sample Volume

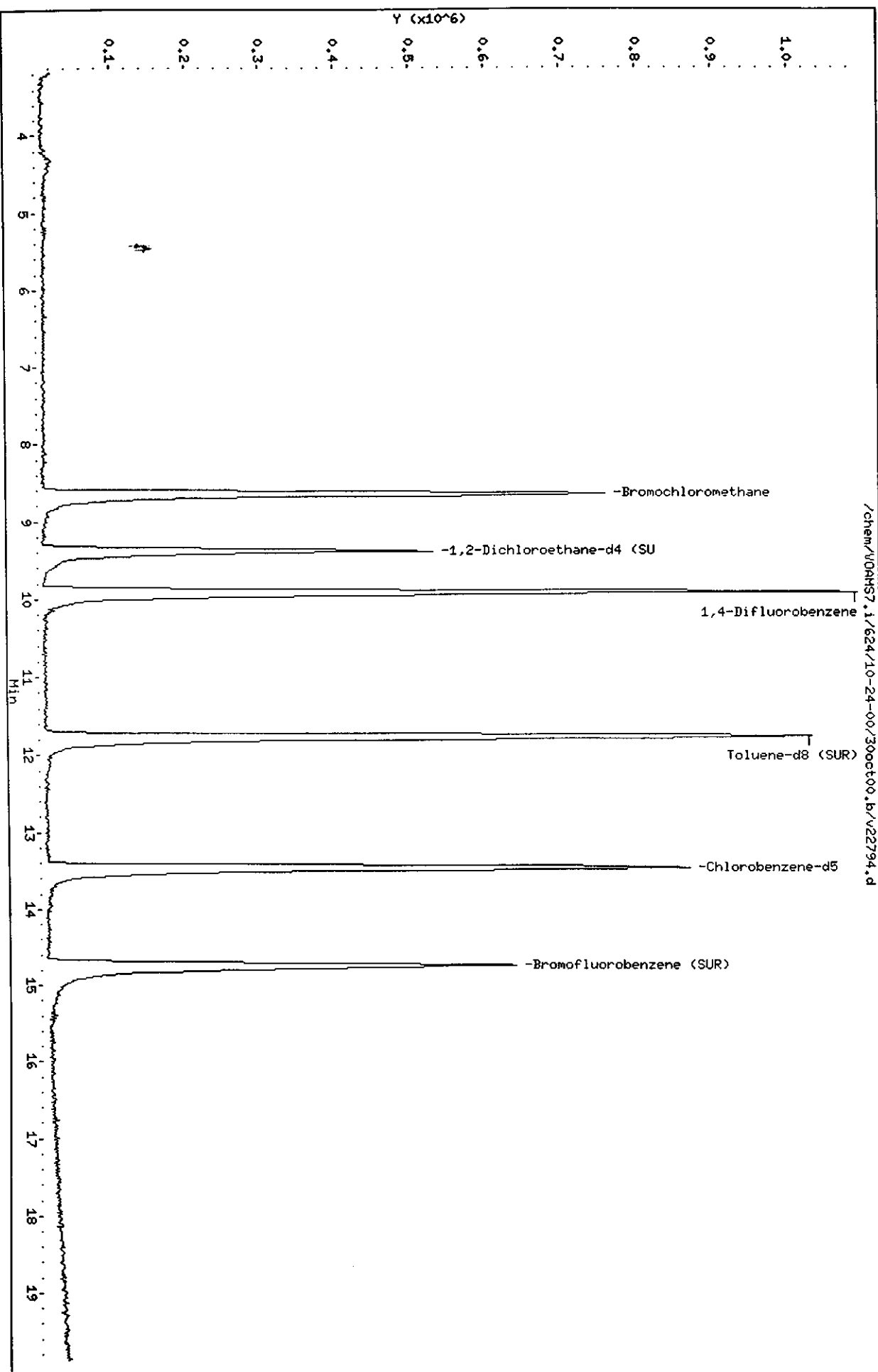
Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/L)	FINAL (ug/L)
* 2 Bromochloromethane	=====	128	8.632	8.615	(1.000)	485895	30.0000	
\$ 16 1,2-Dichloroethane-d4 (SUR)		104	9.373	9.356	(0.946)	120126	28.7553	29
* 19 1,4-Difluorobenzene		114	9.907	9.890	(1.000)	1958842	30.0000	
\$ 37 Toluene-d8 (SUR)		98	11.746	11.743	(0.873)	1666515	32.8192	33
* 32 Chlorobenzene-d5		117	13.451	13.434	(1.000)	1280796	30.0000	
\$ 41 Bromofluorobenzene (SUR)		174	14.726	14.709	(1.095)	563454	26.1656	26

Data File: /chem/VOAHS7.1/624/10-24-00/30oct00.b/v22794.d
Date : 30-OCT-2000 23:47
Client ID: Trip_Blank-2
Sample Info: 237830
Purge Volume: 5.0
Column phase: DB624

Instrument: VOAHS7.i
Operator: VOAHS 6
Column diameter: 0.53



Client ID: **Field Blank-1026**
Site: Rexam DSI

Lab Sample No: **237831**
Lab Job No: F104

Date Sampled: 10/26/00
Date Received: 10/27/00
Date Analyzed: 10/31/00
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v22795.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 624

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u> <u>Limit</u> <u>Units: ug/l</u>
Chloromethane	ND	0.5
Bromomethane	ND	0.3
Vinyl Chloride	ND	0.6
Chloroethane	ND	0.4
Methylene Chloride	8.6	0.8
Trichlorofluoromethane	ND	0.3
1,1-Dichloroethene	ND	0.4
1,1-Dichloroethane	ND	0.4
trans-1,2-Dichloroethene	ND	0.4
cis-1,2-Dichloroethene	ND	0.4
Chloroform	ND	0.2
1,2-Dichloroethane	ND	0.2
1,1,1-Trichloroethane	ND	0.3
Carbon Tetrachloride	ND	0.4
Bromodichloromethane	ND	0.2
1,2-Dichloropropane	ND	0.2
cis-1,3-Dichloropropene	ND	0.1
Trichloroethene	ND	0.4
Dibromochloromethane	ND	0.2
1,1,2-Trichloroethane	ND	0.3
Benzene	ND	0.3
trans-1,3-Dichloropropene	ND	0.3
2-Chloroethyl Vinyl Ether	ND	0.5
Bromoform	ND	0.1
Tetrachloroethene	ND	0.3
1,1,2,2-Tetrachloroethane	ND	0.1
Toluene	ND	0.3
Chlorobenzene	ND	0.2
Ethylbenzene	ND	0.3
Xylene (Total)	ND	0.3

Client ID: **Field Blank-1026**
Site: Rexam DSI

Lab Sample No: **237831**
Lab Job No: F104

Date Sampled: 10/26/00
Date Received: 10/27/00
Date Analyzed: 10/31/00
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v22795.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

**VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 624**

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

Data File: /chem/VOAMS7.i/624/10-24-00/30oct00.b/v22795.d
Report Date: 31-Oct-2000 17:57

STL Envirotech

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS7.i/624/10-24-00/30oct00.b/v22795.d
Lab Smp Id: 237831 Client Smp ID: Field_Blank-1026
Inj Date : 31-OCT-2000 00:13
Operator : VOAMS 6 Inst ID: VOAMS7.i
Smp Info : 237831
Misc Info : F104;3567;;MR
Comment :
Method : /chem/VOAMS7.i/624/10-24-00/30oct00.b/624_00.m
Meth Date : 30-Oct-2000 11:07 riaz Quant Type: ISTD
Cal Date : 24-OCT-2000 16:39 Cal File: v22496.d
Als bottle: 25
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPVOAv.sub
Target Version: 3.50

Concentration Formula: $\text{Amt} * \text{DF} * 5/\text{Vo} * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	5.00000	Sample Volume

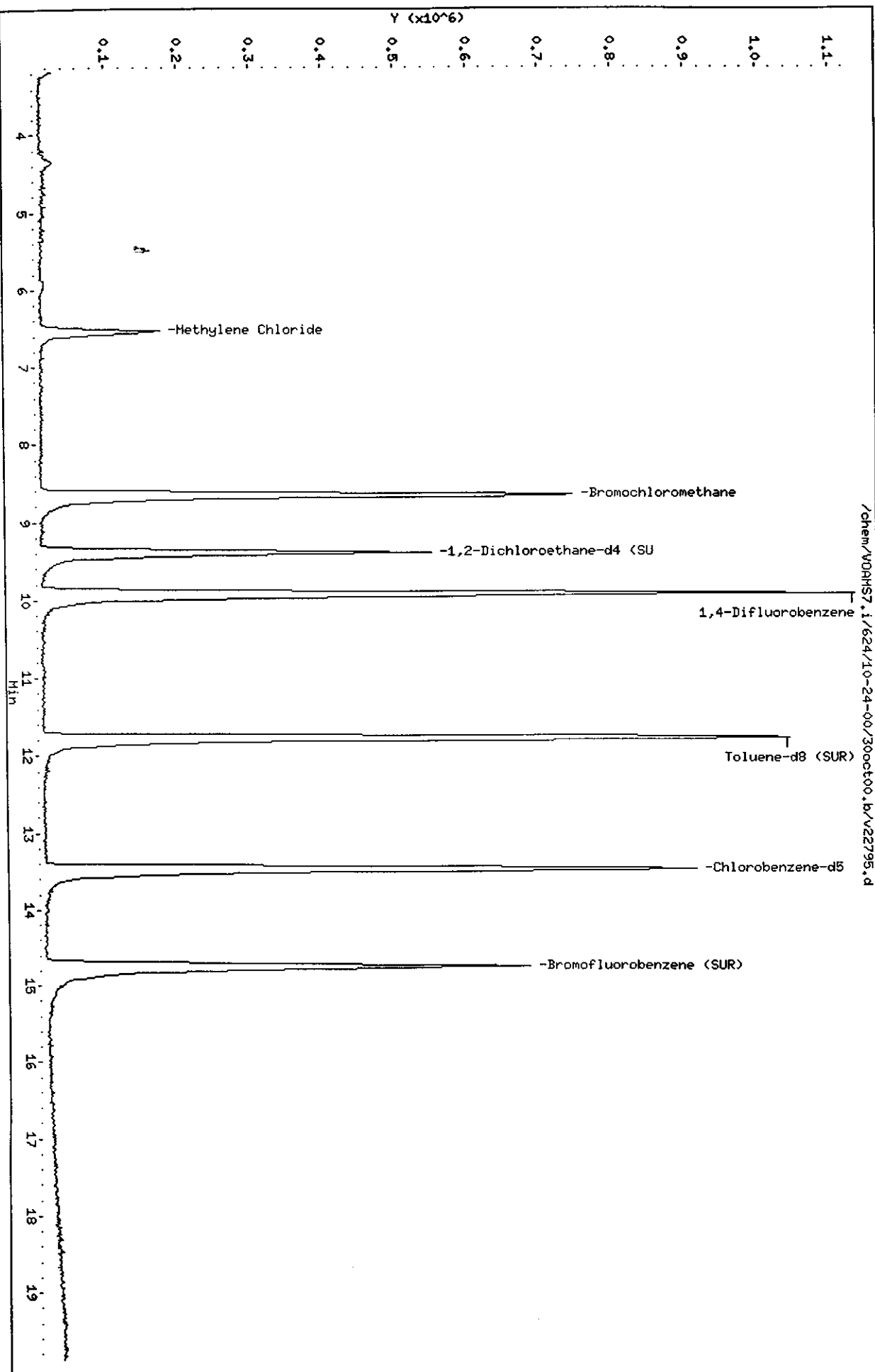
Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/L)
6 Methylene Chloride	84	6.540	6.509	(0.756)	190106	8.60680	8.6
* 2 Bromochloromethane	128	8.646	8.615	(1.000)	486754	30.0000	
\$ 16 1,2-Dichloroethane-d4 (SUR)	104	9.372	9.356	(0.946)	120819	28.7523	29
* 19 1,4-Difluorobenzene	114	9.906	9.890	(1.000)	1970343	30.0000	
\$ 37 Toluene-d8 (SUR)	98	11.760	11.743	(0.874)	1691685	32.8802	33
* 32 Chlorobenzene-d5	117	13.450	13.434	(1.000)	1297729	30.0000	
\$ 41 Bromofluorobenzene (SUR)	174	14.725	14.709	(1.095)	582939	26.7172	27

Data File: /chem/VOAHS7.1/624/10-24-00/30oct00.b/v22795.d
Date : 31-OCT-2000 00:13
Client ID: Field_Blank-1026
Sample Info: 237831
Purge Volume: 5.0
Column phase: DB624

Instrument: VOAHS7.1
Operator: VOAHS 6
Column diameter: 0.53



Data File: /chem/VOAMS7.1/624/10-24-00/30oct00.b/v22795.d

Date : 31-OCT-2000 00:13

Client ID: Field_Blank-1026

Instrument: VOAMS7.i

Sample Info: 237831

Purge Volume: 5.0

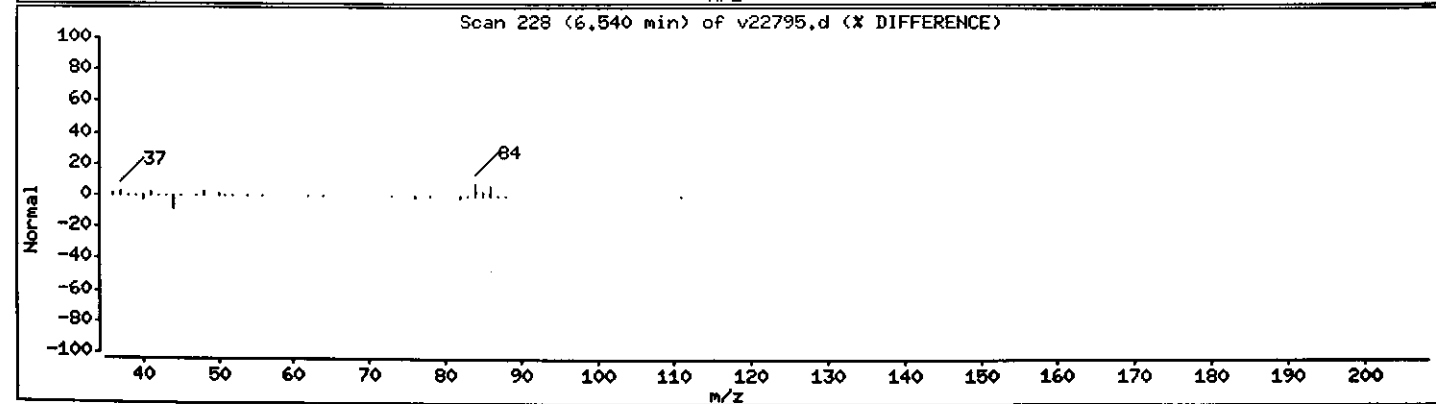
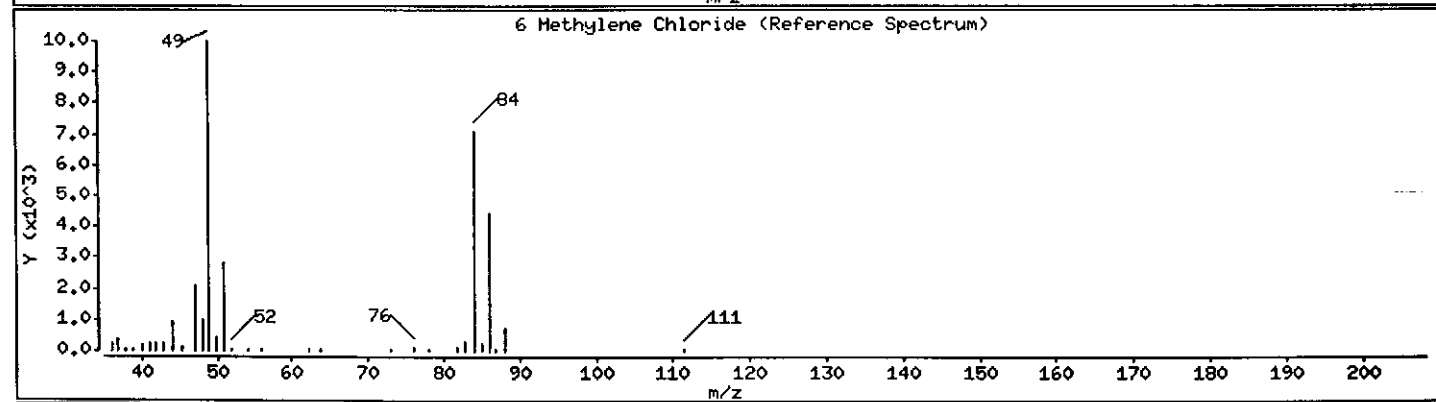
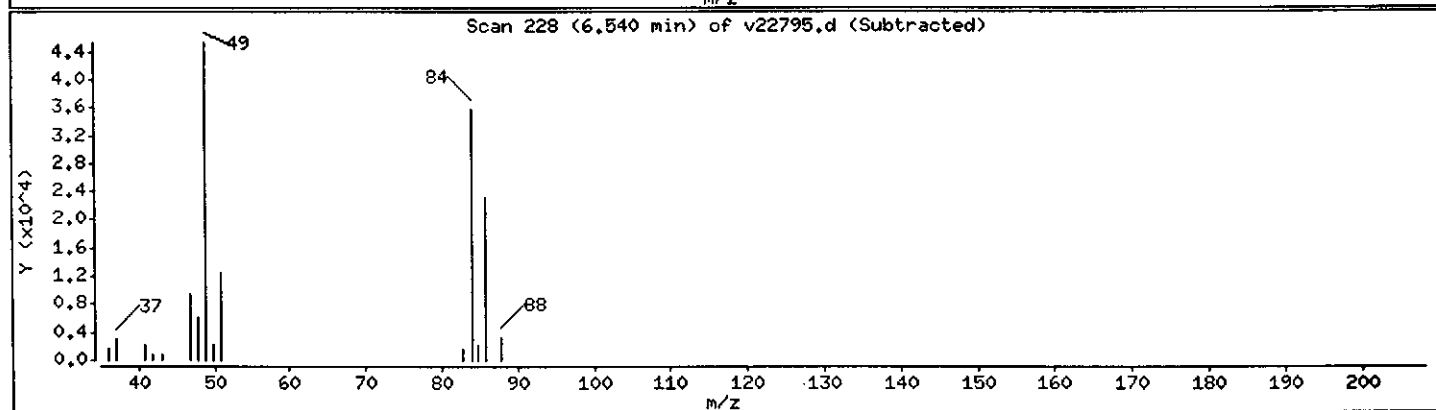
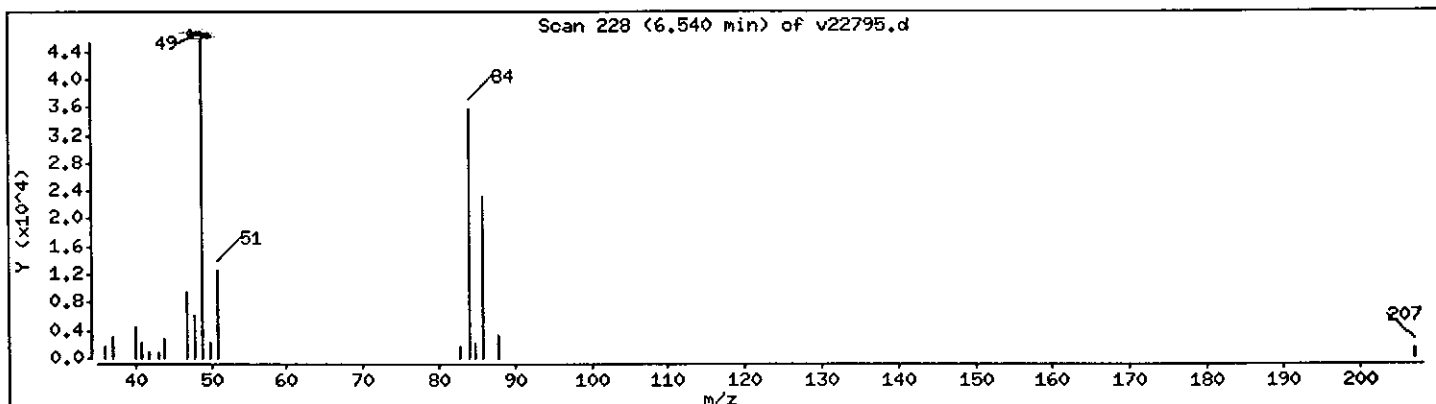
Operator: VOAMS 6

Column phase: DB624

Column diameter: 0.53

6 Methylene Chloride

Concentration: 8.6 ug/L



Client ID: EB-4_16-16.5
Site: Rexam DSI

Lab Sample No: 237839
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Analyzed: 10/30/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10469.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.7 g
Purge Volume: 5.0 ml
% Moisture: 8

VOLATILE ORGANICS - GC/MS
METHOD 8260B

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Chloromethane	ND	4.8
Bromomethane	ND	4.8
Vinyl Chloride	ND	4.8
Chloroethane	ND	4.8
Methylene Chloride	ND	2.9
Trichlorofluoromethane	ND	4.8
1,1-Dichloroethene	ND	1.9
1,1-Dichloroethane	ND	4.8
trans-1,2-Dichloroethene	ND	4.8
cis-1,2-Dichloroethene	ND	4.8
Chloroform	ND	4.8
1,2-Dichloroethane	ND	1.9
1,1,1-Trichloroethane	ND	4.8
Carbon Tetrachloride	ND	1.9
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	4.8
Trichloroethene	ND	1.0
Dibromochloromethane	ND	4.8
1,1,2-Trichloroethane	ND	2.9
Benzene	0.6J	1.0
trans-1,3-Dichloropropene	ND	4.8
2-Chloroethyl Vinyl Ether	ND	4.8
Bromoform	ND	3.8
Tetrachloroethene	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	1.1J	4.8
Chlorobenzene	ND	4.8
Ethylbenzene	ND	3.8
Xylene (Total)	ND	4.8

Client ID: EB-4_16-16.5
Site: Rexam DSI

Lab Sample No: 237839
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Analyzed: 10/30/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10469.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.7 g
Purge Volume: 5.0 ml
% Moisture: 7.8

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/30oct00.b/a10469.d
 Report Date: 31-Oct-2000 15:09

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VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS1.i/8260LOW_SP/10-20-00/30oct00.b/a10469.d
 Lab Smp Id: 237839
 Inj Date : 30-OCT-2000 14:44
 Operator : VOAMS 8
 Smp Info : 237839;;;5.68;5
 Misc Info : F104;1914;AT
 Comment :
 Method : /chem/VOAMS1.i/8260LOW_SP/10-20-00/30oct00.b/8260L_00.m
 Meth Date : 30-Oct-2000 08:34 audberto
 Cal Date : 20-OCT-2000 18:54
 Als bottle: 12
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 3.50

Client Smp ID: EB-4_16-16.5
 Inst ID: VOAMS1.i
 Quant Type: ISTD
 Cal File: a10343.d
 Compound Sublist: PPVOA.sub

Concentration Formula: $\text{Amt} * \text{DF} * ((\text{Vt}/\text{Ws}) / ((100-\text{M})/100)) * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	5.00000	Volume of final extract (mL)
Ws	5.68000	Weight of sample extracted (g)
M	7.80000	% Moisture (not decanted)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
\$ 16 1,2-Dichloroethane-d4 (SUR)	65	9.671	9.671	(0.955)	1213334	54.0056	52
28 Benzene	78	9.819	9.789	(0.969)	40628	0.65314	0.62(a)
* 19 Fluorobenzene	96	10.129	10.129	(1.000)	3767892	50.0000	
\$ 37 Toluene-d8 (SUR)	98	12.064	12.064	(0.877)	2345113	56.9599	54
38 Toluene	91	12.153	12.153	(0.884)	57303	1.16686	1.1(a)
* 32 Chlorobenzene-d5	117	13.748	13.763	(1.000)	2123804	50.0000	
\$ 41 Bromofluorobenzene (SUR)	174	15.034	15.048	(0.924)	1138884	70.4159	67
* 91 1,4-Dichlorobenzene-d4	152	16.275	16.289	(1.000)	734051	50.0000	

QC Flag Legend

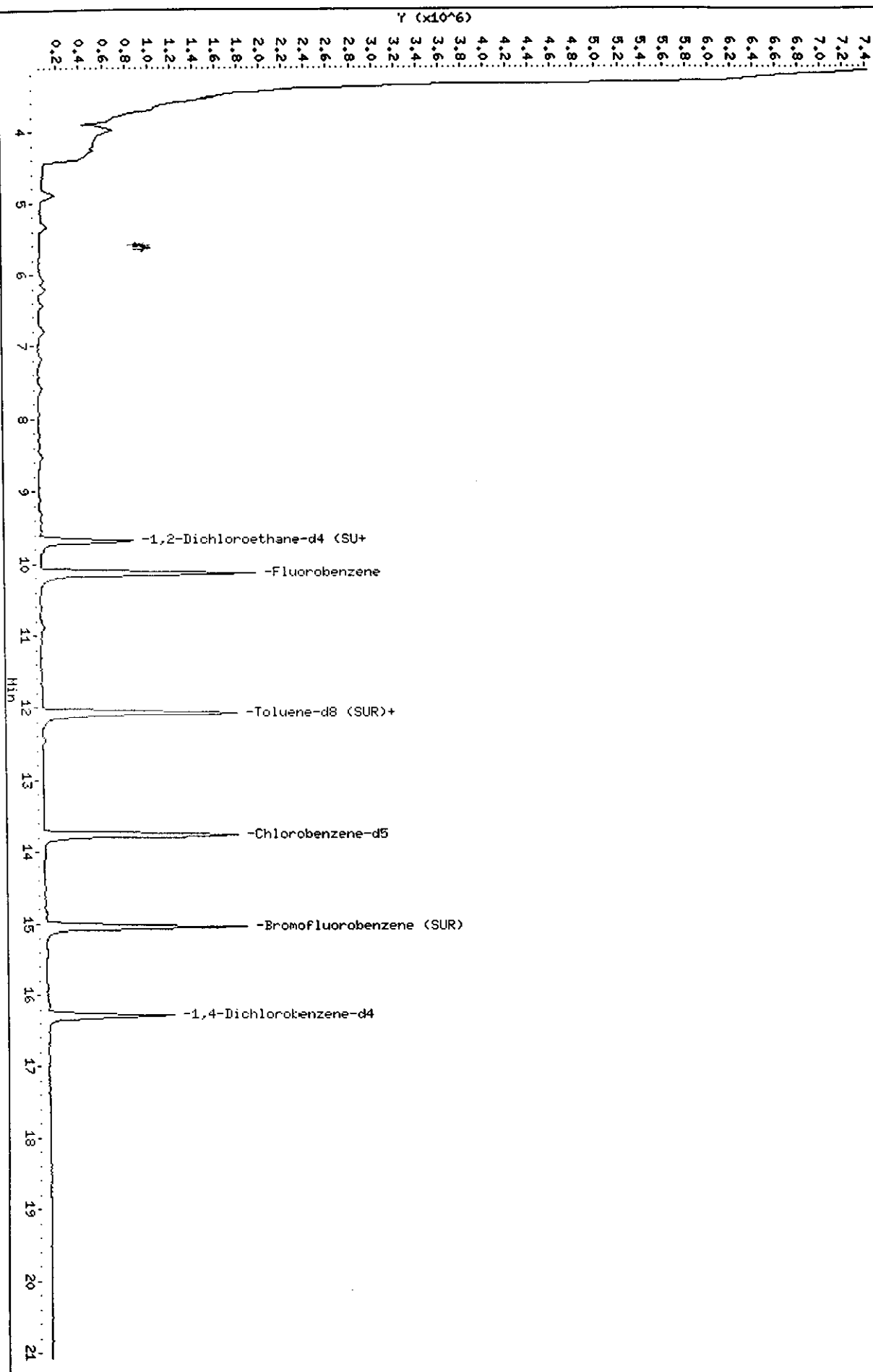
a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).

Data File: /chem/VOAHS1.i/8260LDM_SP/10-20-00/30oct00.b/a10469.d
Date : 30-OCT-2000 14:44
Client ID: EB-4_16-16.5
Sample Info: 237839;;5.68;5
Column phase: DB624

Instrument: VOAHS1.i
Operator: VOAHS 8
Column diameter: 0.53

KUB

/chem/VOAHS1.i/8260LDM_SP/10-20-00/30oct00.b/a10469.d



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/30oct00.b/a10469.d

Date : 30-OCT-2000 14:44

Client ID: EB-4_16-16.5

Sample Info: 237839;;;5.68;5

Instrument: VOAMS1.i

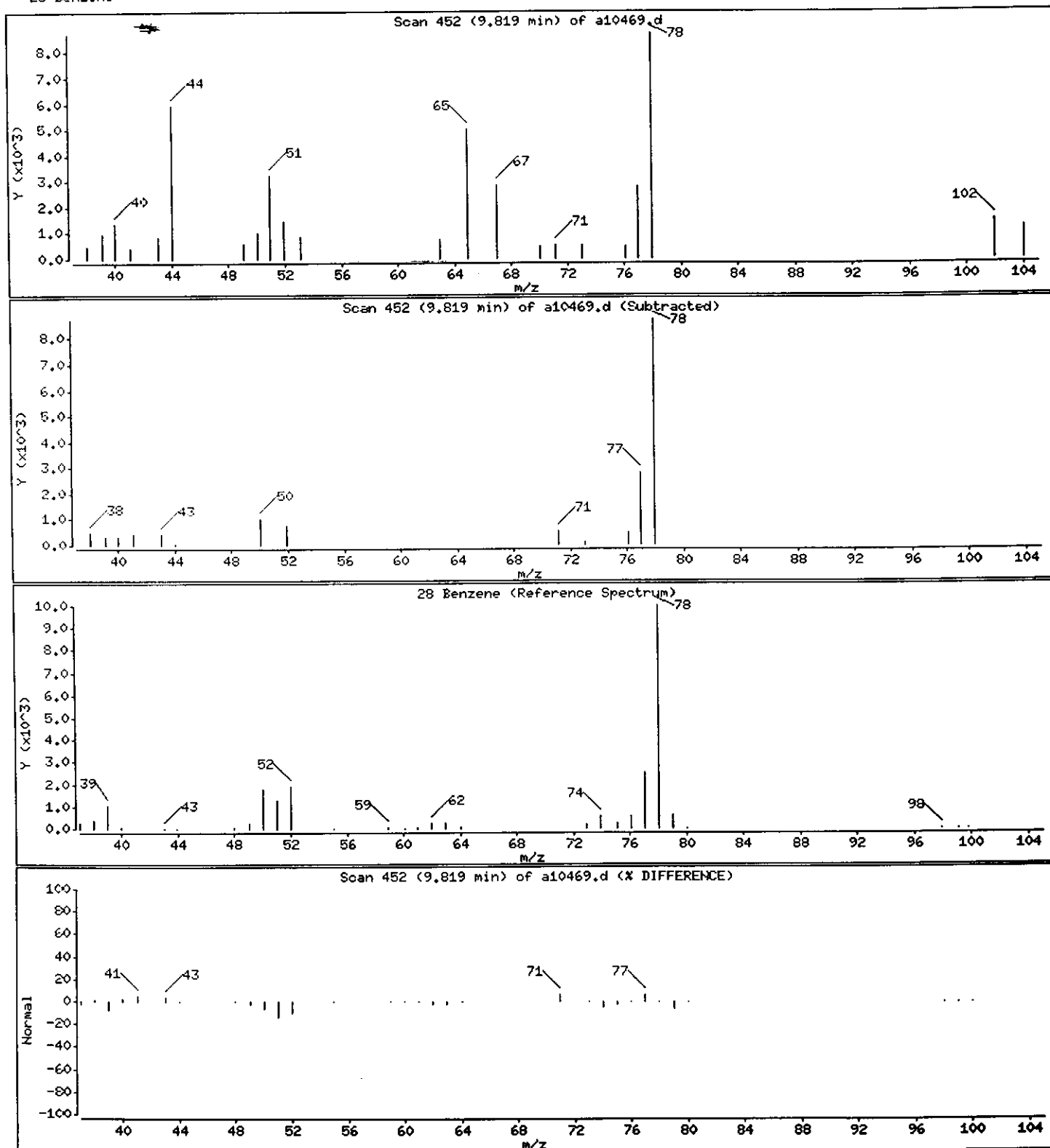
Operator: VOAMS 8

Column diameter: 0.53

Column phase: DB624

Concentration: 0.62 ug/Kg

28 Benzene



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/30oct00,b/a10469.d

Date : 30-OCT-2000 14:44

Client ID: EB-4_16-16.5

Sample Info: 237839;;;5.68;5

Instrument: VOAMS1.i

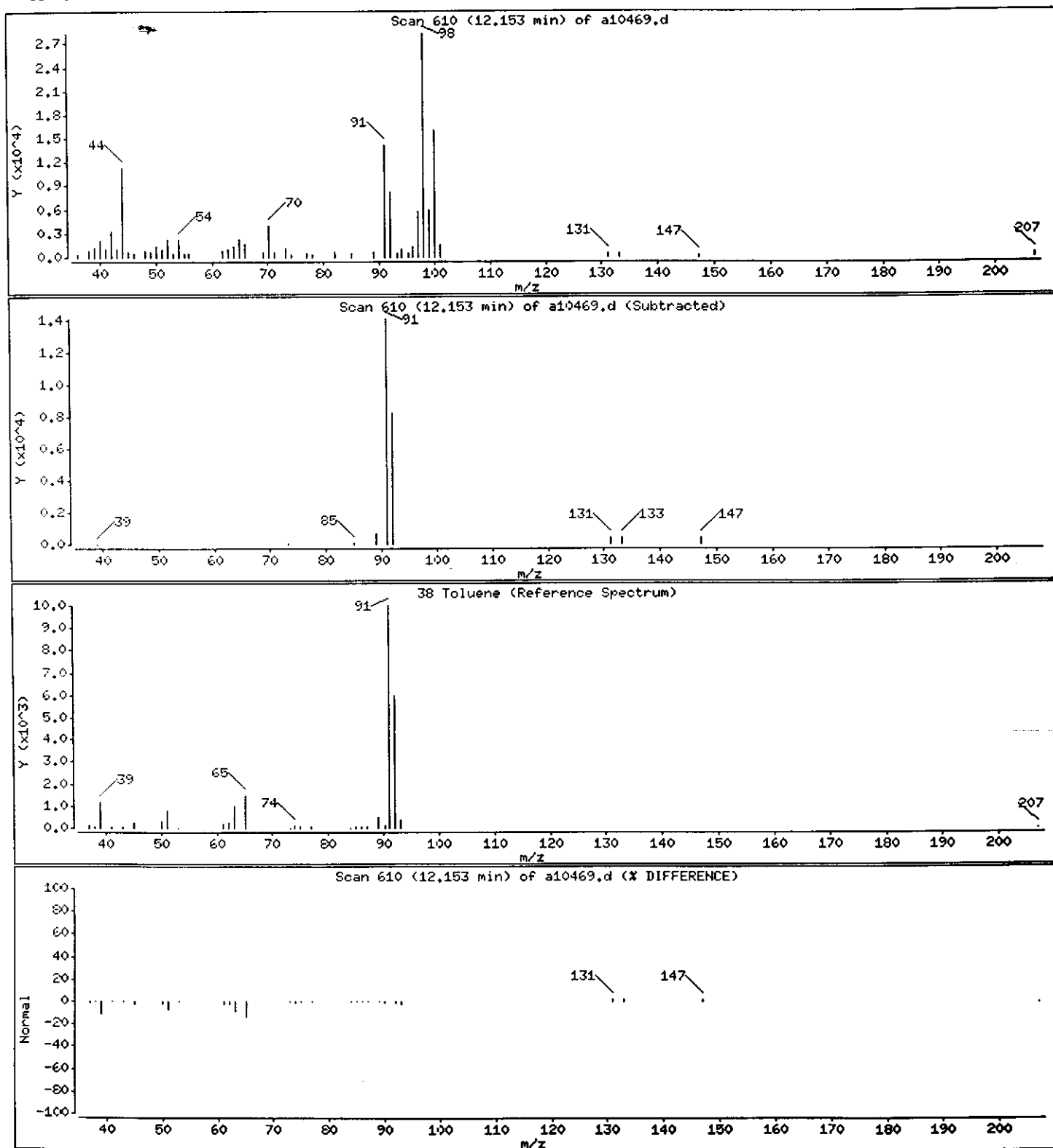
Operator: VOAMS 8

Column diameter: 0.53

Column phase: DB624

Concentration: 1.1 ug/Kg

38 Toluene



VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab File ID: A10436

BFB Injection Date: 10/29/00

Instrument ID: VOAMS1

BFB Injection Time: 1119

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.2
75	30.0 - 60.0% of mass 95	52.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.6
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	82.3
175	5.0 - 9.0% of mass 174	6.6 (8.0)1
176	95.0 - 101.0% of mass 174	81.9 (99.6)1
177	5.0 - 9.0% of mass 176	6.4 (7.9)2

1-Value is % mass 174

2-Value is % mass 176

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

	CLIENT ID	LAB SAMPLE No.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ASTD303	ASTD303	A10437	10/29/00	1152
02	AV303	AV303	A10440	10/29/00	1352
03	EB-1_6-12	237812	A10441	10/29/00	1436
04	EB-1_6-12R1	237812R1	A10453	10/29/00	2053
05	EB-2_CATCH_B	237813	A10454	10/29/00	2124
06	EB-3_16-16.5	237814	A10455	10/29/00	2156
07					
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22					

Date : 29-OCT-2000 11:19

Client ID:

Instrument: VOAMS1.i

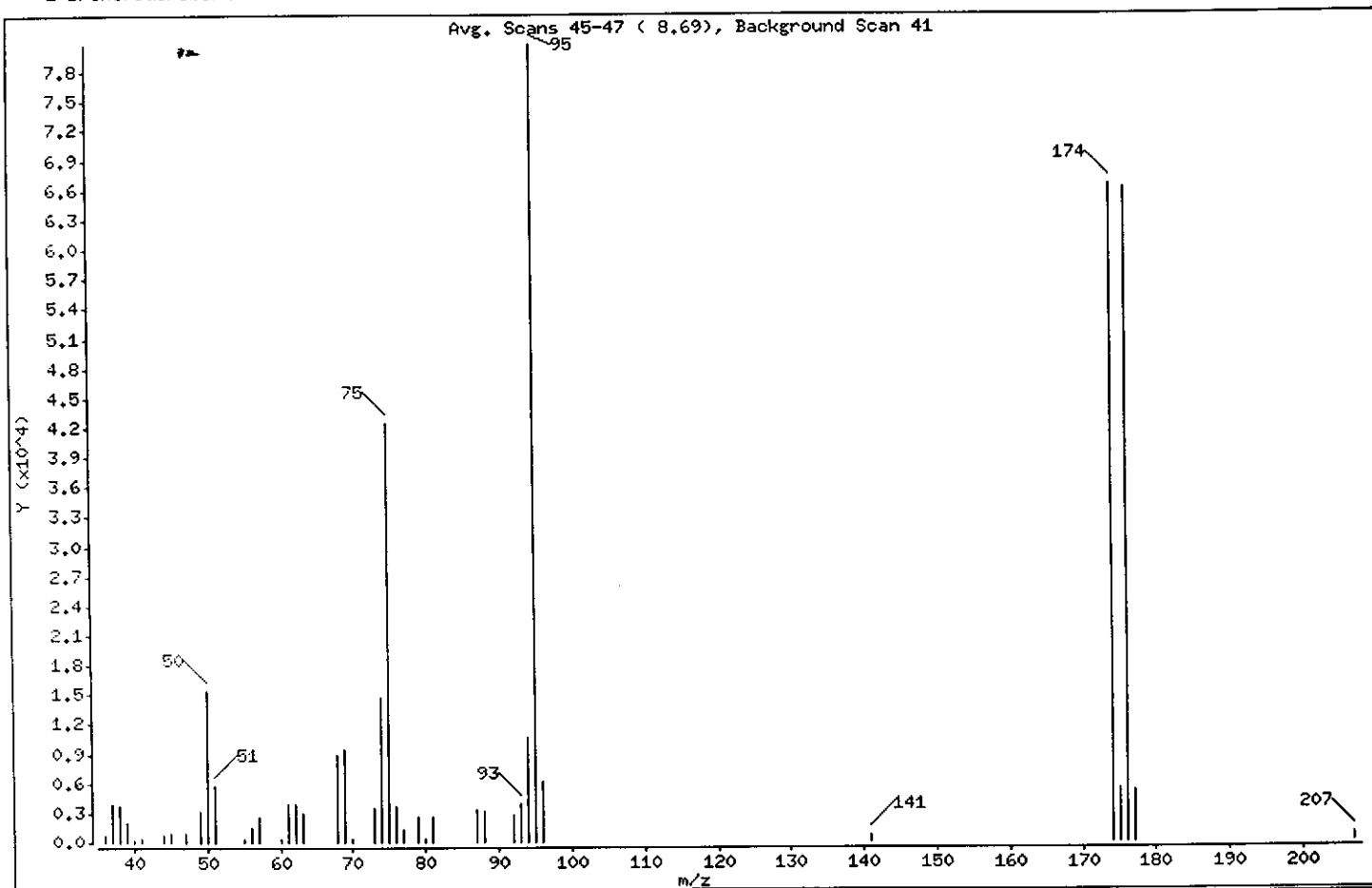
Sample Info: ABFB303 50ng

Operator: VOAMS 5

Column phase: DB-624

Column diameter: 0.53

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.16
75	30.00 - 60.00% of mass 95	52.55
96	5.00 - 9.00% of mass 95	7.65
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	82.28
175	5.00 - 9.00% of mass 174	6.56 (7.97)
176	95.00 - 101.00% of mass 174	81.95 (99.59)
177	5.00 - 9.00% of mass 176	6.45 (7.87)

Date : 29-OCT-2000 11:19

Client ID:

Instrument: VOAMS1.i

Sample Info: ABFB303 50ng

Operator: VOAMS 5

Column phase: DB-624

Column diameter: 0.53

Data File: a10436.d

-#-

Spectrum: Avg. Scans 45-47 (8.69), Background Scan 41

Location of Maximum: 95.00

Number of points: 43

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	749	51.00	5736	73.00	3530	93.00	3986
37.00	3948	55.00	396	74.00	14671	94.00	10518
38.00	3777	56.00	1540	75.00	42472	95.00	80824
39.00	1974	57.00	2633	76.00	3767	96.00	6181
40.00	223	60.00	333	77.00	1303	141.00	749
41.00	417	61.00	3907	79.00	2615	174.00	66504
44.00	723	62.00	3952	80.00	352	175.00	5301
45.00	1001	63.00	2930	81.00	2531	176.00	66232
47.00	859	68.00	8987	87.00	3289	177.00	5210
49.00	3142	69.00	9425	88.00	3144	207.00	755
50.00	15483	70.00	342	92.00	2755		

Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/29oct00.b/a10436.d

Page 2

Date : 29-OCT-2000 11:19

Client ID:

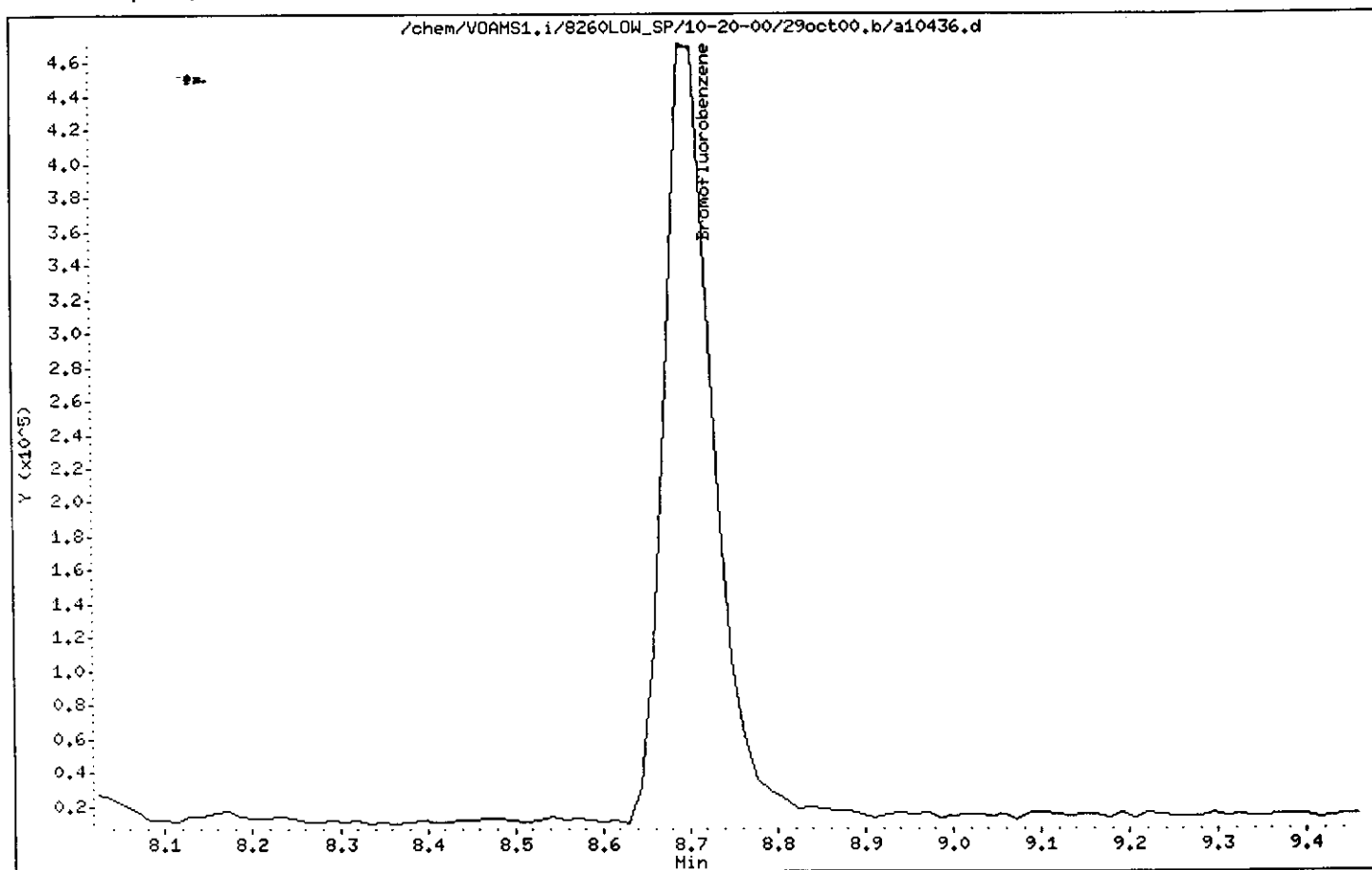
Instrument: VOAMS1.i

Sample Info: ABFB303 50ng

Operator: VOAMS 5

Column phase: DB-624

Column diameter: 0,53



VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab File ID: A10457

BFB Injection Date: 10/30/00

Instrument ID: VOAMS1

BFB Injection Time: 0744

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.9
75	30.0 - 60.0% of mass 95	51.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.6
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	86.0
175	5.0 - 9.0% of mass 174	6.9 (8.0)1
176	95.0 - 101.0% of mass 174	84.7 (98.5)1
177	5.0 - 9.0% of mass 176	5.9 (7.0)2

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

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

	CLIENT ID	LAB SAMPLE No.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ASTD304	ASTD304	A10458	10/30/00	0811
02	AV304	AV304	A10462	10/30/00	1054
03	EB-4_1.5-2	237815	A10463	10/30/00	1135
04	EB-5_1.2-1.7	237816	A10464	10/30/00	1206
05	EB-6_OUTFALL	237817	A10465	10/30/00	1238
06	TPE-2	237819	A10467	10/30/00	1340
07	TPE-3	237820	A10468	10/30/00	1412
08	EB-4_16-16.5	237839	A10469	10/30/00	1444
09	EB-3_16-16.5	237814R1	A10470	10/30/00	1516
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

Date : 30-OCT-2000 07:44

Client ID:

Instrument: VOAMS1.i

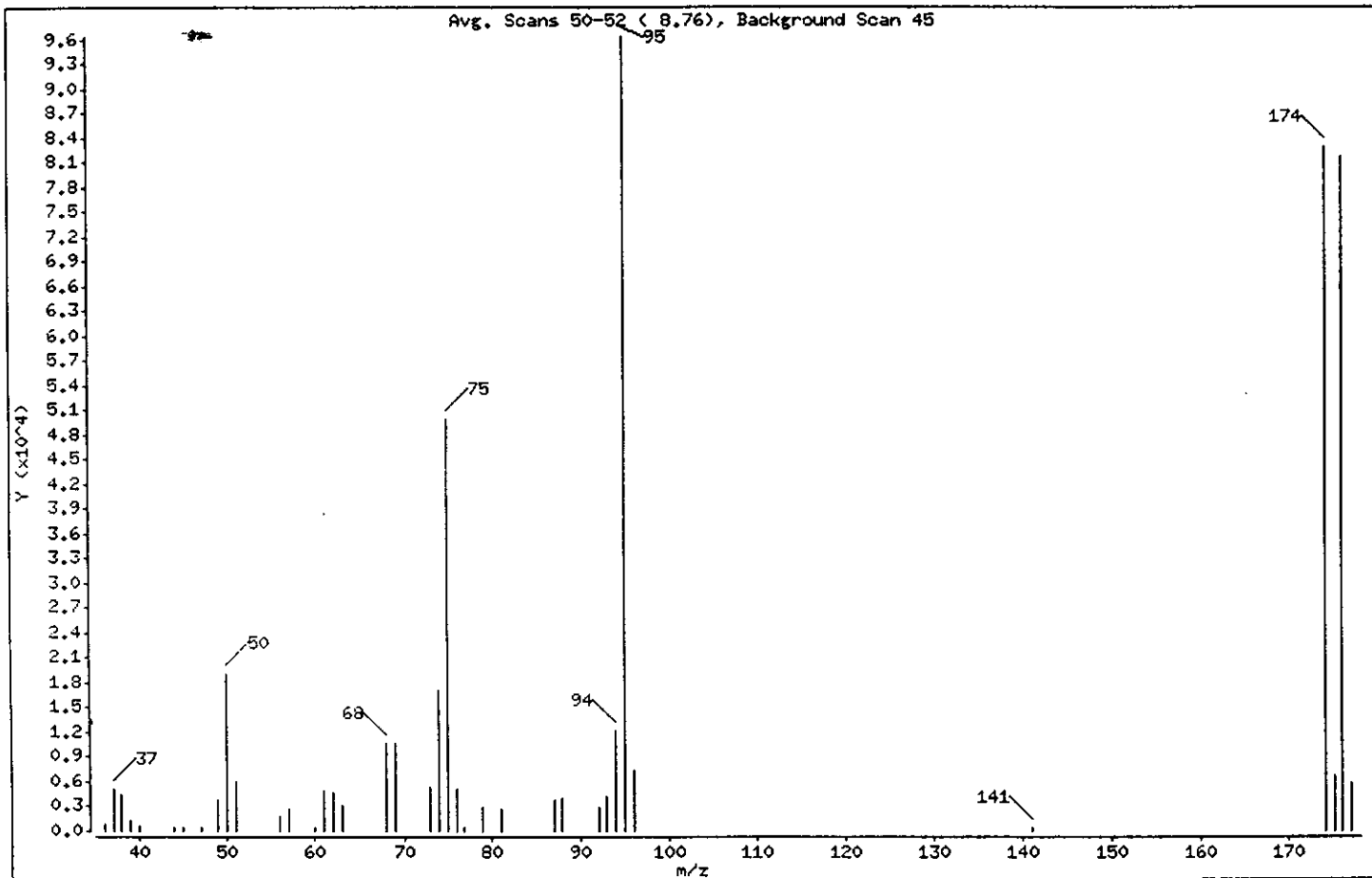
Sample Info: ABFB304 50ng

Operator: VOAMS 5

Column phase: DB-624

Column diameter: 0.53

1 Bromofluorobenzene



m/e		ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance		100.00	
50	15.00 - 40.00% of mass 95		19.87	
75	30.00 - 60.00% of mass 95		51.88	
96	5.00 - 9.00% of mass 95		7.57	
173	Less than 2.00% of mass 174		0.00 (0.00)	
174	50.00 - 100.00% of mass 95		86.02	
175	5.00 - 9.00% of mass 174		6.92 (8.05)	
176	95.00 - 101.00% of mass 174		84.70 (98.47)	
177	5.00 - 9.00% of mass 176		5.92 (6.98)	

Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/30oct00.b/a10457.d

Page 3

Date : 30-OCT-2000 07:44

Client ID:

Instrument: VOAMS1.i

Sample Info: ABFB304 50ng

Operator: VOAMS 5

Column phase: DB-624

Column diameter: 0.53

Data File: a10457.d

Spectrum: Avg. Scans 50-52 (8.76), Background Scan 45

Location of Maximum: 95.00

Number of points: 38

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	811	51.00	6013	74.00	17088	94.00	12256
37.00	5009	56.00	1691	75.00	50008	95.00	96392
38.00	4343	57.00	2774	76.00	5199	96.00	7295
39.00	1313	60.00	338	77.00	502	141.00	379
40.00	759	61.00	4840	79.00	2973	174.00	82920
44.00	552	62.00	4775	81.00	2771	175.00	6671
45.00	397	63.00	3160	87.00	3822	176.00	81648
47.00	409	68.00	10680	88.00	3925	177.00	5703
49.00	3722	69.00	10648	92.00	2856		
50.00	19152	73.00	5345	93.00	4182		

Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/30oct00.b/a10457.d

Page 1

Date : 30-OCT-2000 07:44

Client ID:

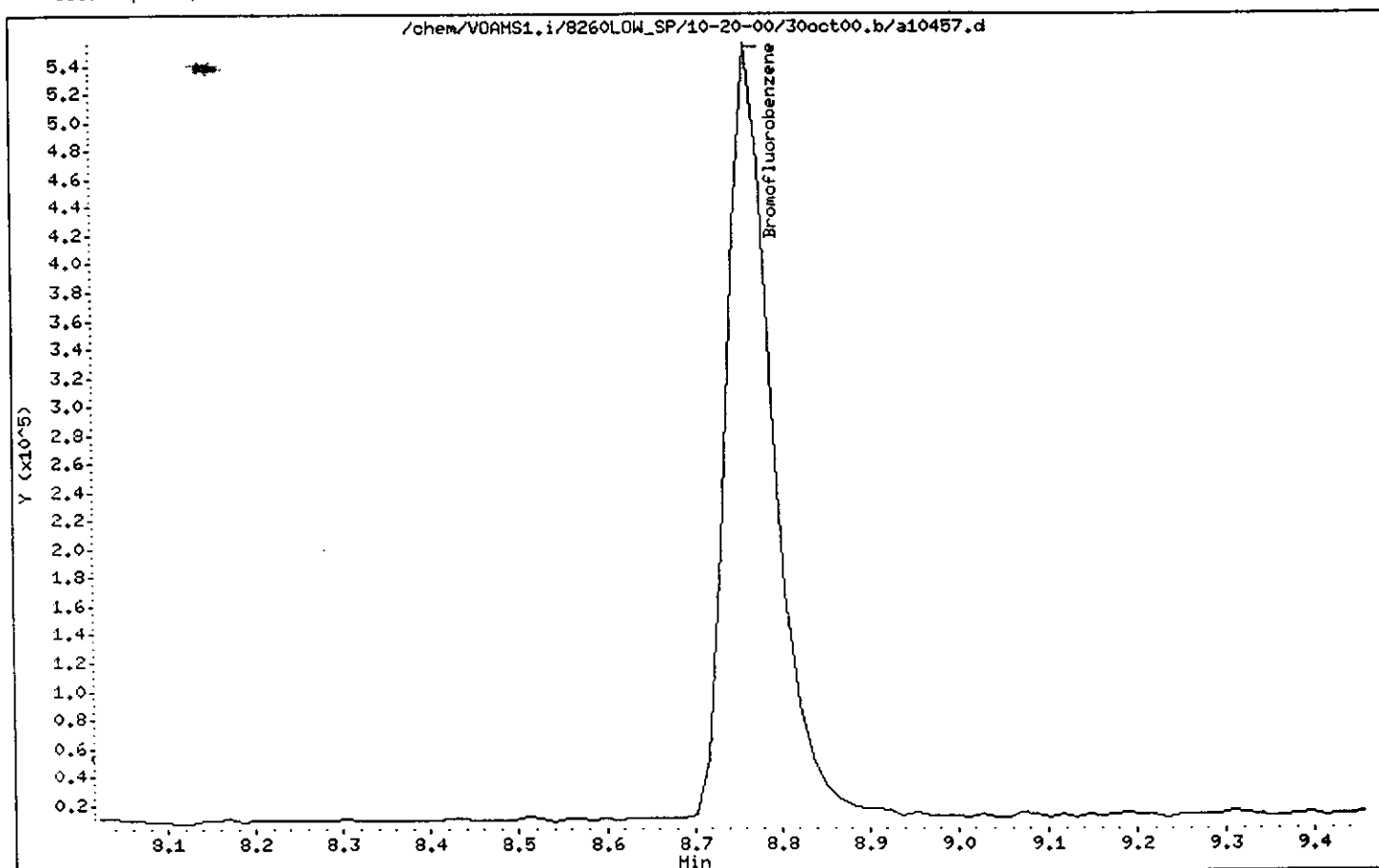
Instrument: VOAMS1.i

Sample Info: ABFB304 50ng

Operator: VOAMS 5

Column phase: DB-624

Column diameter: 0.53



VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab File ID: A10476

BFB Injection Date: 10/30/00

Instrument ID: VOAMS1

BFB Injection Time: 1934

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.8
75	30.0 - 60.0% of mass 95	50.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.3
173	Less than 2.0% of mass 174	0.4 (0.5)1
174	50.0 - 100.0% of mass 95	83.2
175	5.0 - 9.0% of mass 174	6.6 (7.9)1
176	95.0 - 101.0% of mass 174	79.9 (96.0)1
177	5.0 - 9.0% of mass 176	6.0 (7.5)2

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

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

	CLIENT ID	LAB SAMPLE No.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ASTD304A	ASTD304A	A10477	10/30/00	1958
02	AV304A	AV304A	A10482	10/30/00	2303
03	EB-5_1.2-1.7	237816R1	A10483	10/30/00	2337
04	EB-6_OUTFALL	237817R1	A10484	10/31/00	0008
05	TPE-1	237818	A10485	10/31/00	0040
06	TPE-2R1	237819R1	A10486	10/31/00	0111
07	EB-4_16-16.5	237839R1	A10487	10/31/00	0143
08					
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14					
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16					
17					
18					
19					
20					
21					
22					

Date : 30-OCT-2000 19:34

Client ID:

Instrument: VOAMS1.i

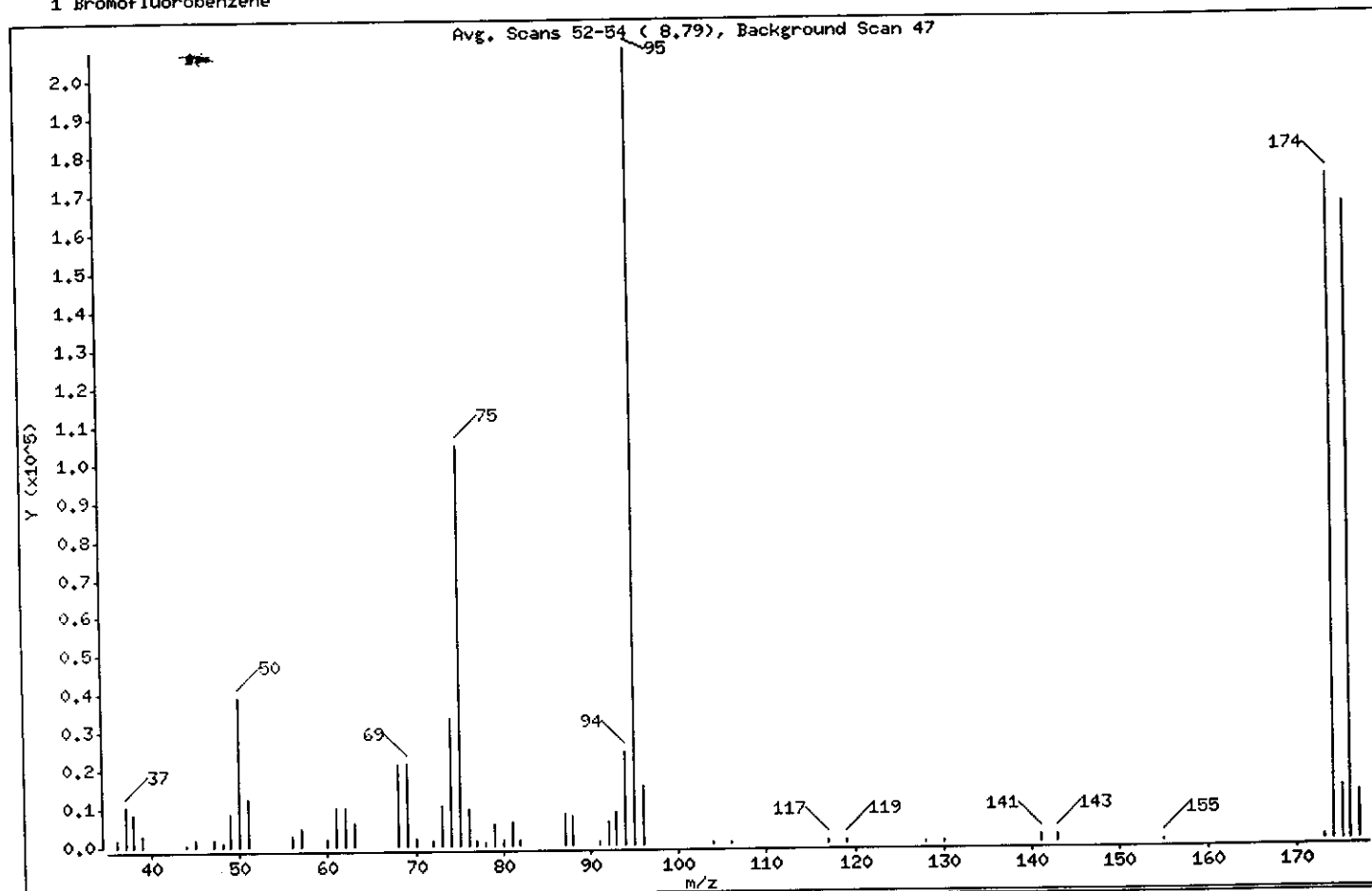
Sample Info: ABFB304A 50ng

Operator: VOAMS 5

Column phase: DB-624

Column diameter: 0.53

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.77
75	30.00 - 60.00% of mass 95	50.26
96	5.00 - 9.00% of mass 95	7.31
173	Less than 2.00% of mass 174	0.40 (0.48)
174	50.00 - 100.00% of mass 95	83.20
175	5.00 - 9.00% of mass 174	6.58 (7.91)
176	95.00 - 101.00% of mass 174	79.86 (95.98)
177	5.00 - 9.00% of mass 176	5.96 (7.46)

Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/30oct00a.b/a10476.d

Page 4

Date : 30-OCT-2000 19:34

Client ID:

Instrument: VOAMS1.i

Sample Info: ABFB304A 50ng

Operator: VOAMS 5

Column phase: DB-624

Column diameter: 0.53

Data File: a10476.d

Spectrum: Avg. Scans 52-54 (8.79), Background Scan 47

Location of Maximum: 95.00

Number of points: 53

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1999	61.00	9937	80.00	1654	119.00	1094
37.00	10505	62.00	9885	81.00	5996	128.00	362
38.00	8671	63.00	6448	82.00	1388	130.00	345
39.00	2824	68.00	21392	87.00	8127	141.00	1979
44.00	432	69.00	21424	88.00	7852	143.00	1688
45.00	1886	70.00	1755	91.00	888	155.00	344
47.00	2048	72.00	1215	92.00	6192	173.00	838
48.00	848	73.00	10583	93.00	8739	174.00	172992
49.00	8648	74.00	33256	94.00	24456	175.00	13676
50.00	39024	75.00	104504	95.00	207872	176.00	166016
51.00	12413	76.00	9451	96.00	15191	177.00	12388
56.00	3055	77.00	1475	104.00	418		
57.00	4895	78.00	1170	106.00	348		
60.00	1976	79.00	5777	117.00	953		

Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/30oct00a.b/a10476.d

Page 2

Date : 30-OCT-2000 19:34

Client ID:

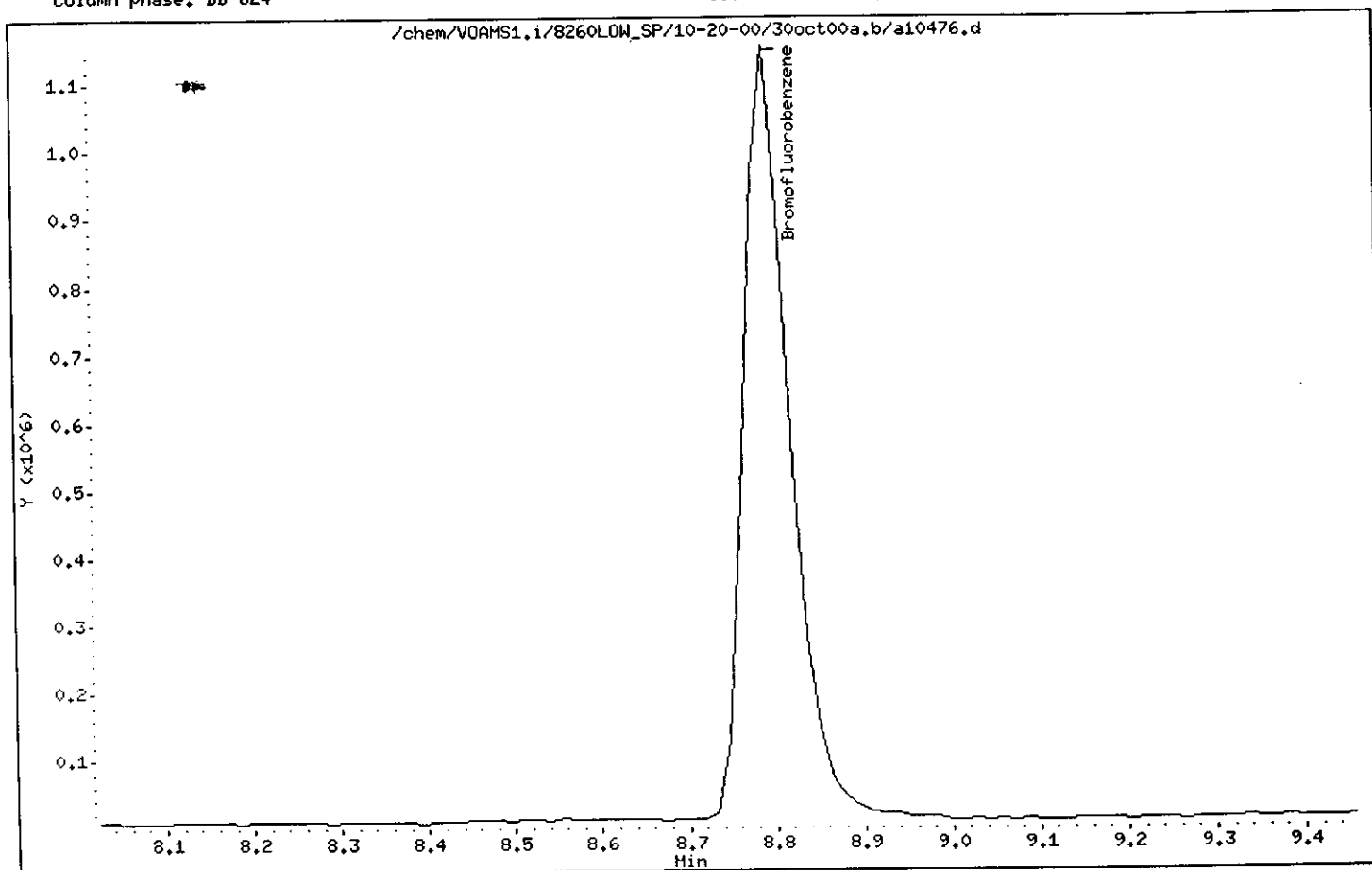
Instrument: VOAMS1.i

Sample Info: ABFB304A 50ng

Operator: VOAMS 5

Column phase: DB-624

Column diameter: 0.53



VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab File ID: A10498

BFB Injection Date: 10/31/00

Instrument ID: VOAMS1

BFB Injection Time: 0846

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.1
75	30.0 - 60.0% of mass 95	51.8
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	50.0 - 100.0% of mass 95	83.9
175	5.0 - 9.0% of mass 174	6.2 (7.4)1
176	95.0 - 101.0% of mass 174	82.8 (98.7)1
177	5.0 - 9.0% of mass 176	6.0 (7.2)2

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

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

	CLIENT ID	LAB SAMPLE No.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ASTD305	ASTD305	A10500	10/31/00	0958
02	AV305	AV305	A10503	10/31/00	1206
03	RC-1_2ND_FLR	237825R1	A10508	10/31/00	1442
04	RC-2_3RD_FLR	237826	A10510	10/31/00	1541
05	RC-3_3RD_FLR	237827	A10511	10/31/00	1610
06	RC-4_4TH_FLR	237828	A10512	10/31/00	1640
07	ES-1_ELSHAFT	237829	A10513	10/31/00	1710
08	RC-1_2ND_FLR	237825	A10515	10/31/00	1814
09	RC-2_3RD_FLR	237826R1	A10516	10/31/00	1843
10	RC-3_3RD_FLR	237827R1	A10517	10/31/00	1913
11	RC-4_4TH_FLR	237828R1	A10518	10/31/00	1942
12	ES-1_ELSHAFT	237829R1	A10519	10/31/00	2012
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

Date : 31-OCT-2000 08:46

Client ID:

Instrument: VOAMS1.i

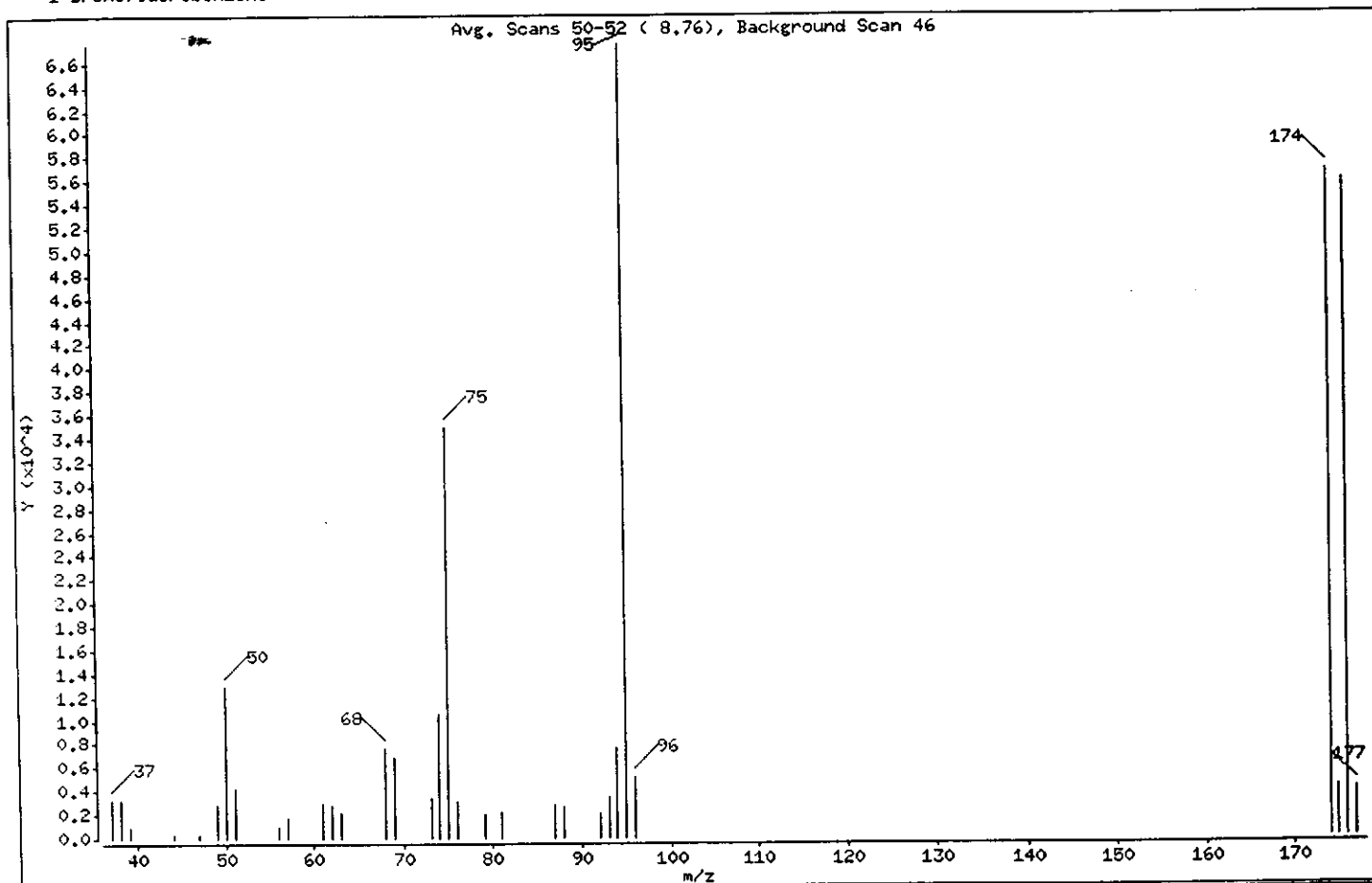
Sample Info: ABFB305 50ng

Operator: VOAMS 5

Column phase: DB-624

Column diameter: 0.53

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.07
75	30.00 - 60.00% of mass 95	51.75
96	5.00 - 9.00% of mass 95	7.67
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	83.89
175	5.00 - 9.00% of mass 174	6.19 (7.38)
176	95.00 - 101.00% of mass 174	82.82 (98.72)
177	5.00 - 9.00% of mass 176	6.00 (7.24)

Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10498.d

Page 4

Date : 31-OCT-2000 08:46

Client ID:

Instrument: VOAMS1.i

Sample Info: ABFB305 50ng

Operator: VOAMS 5

Column phase: DB-624

Column diameter: 0.53

Data File: a10498.d

Spectrum: Avg. Scans 50-52 (8.76), Background Scan 46

Location of Maximum: 95.00

Number of points: 32

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	3331	57.00	1770	76.00	3155	96.00	5177
38.00	3236	61.00	2952	79.00	2079	174.00	56648
39.00	950	62.00	2838	81.00	2179	175.00	4179
44.00	322	63.00	2134	87.00	2781	176.00	55928
47.00	383	68.00	7570	88.00	2574	177.00	4050
49.00	2809	69.00	6907	92.00	2092		
50.00	12877	73.00	3394	93.00	3343		
51.00	4166	74.00	10605	94.00	7634		
56.00	371	75.00	34944	95.00	67528		

Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10498.d

Page 2

Date : 31-OCT-2000 08:46

Client ID:

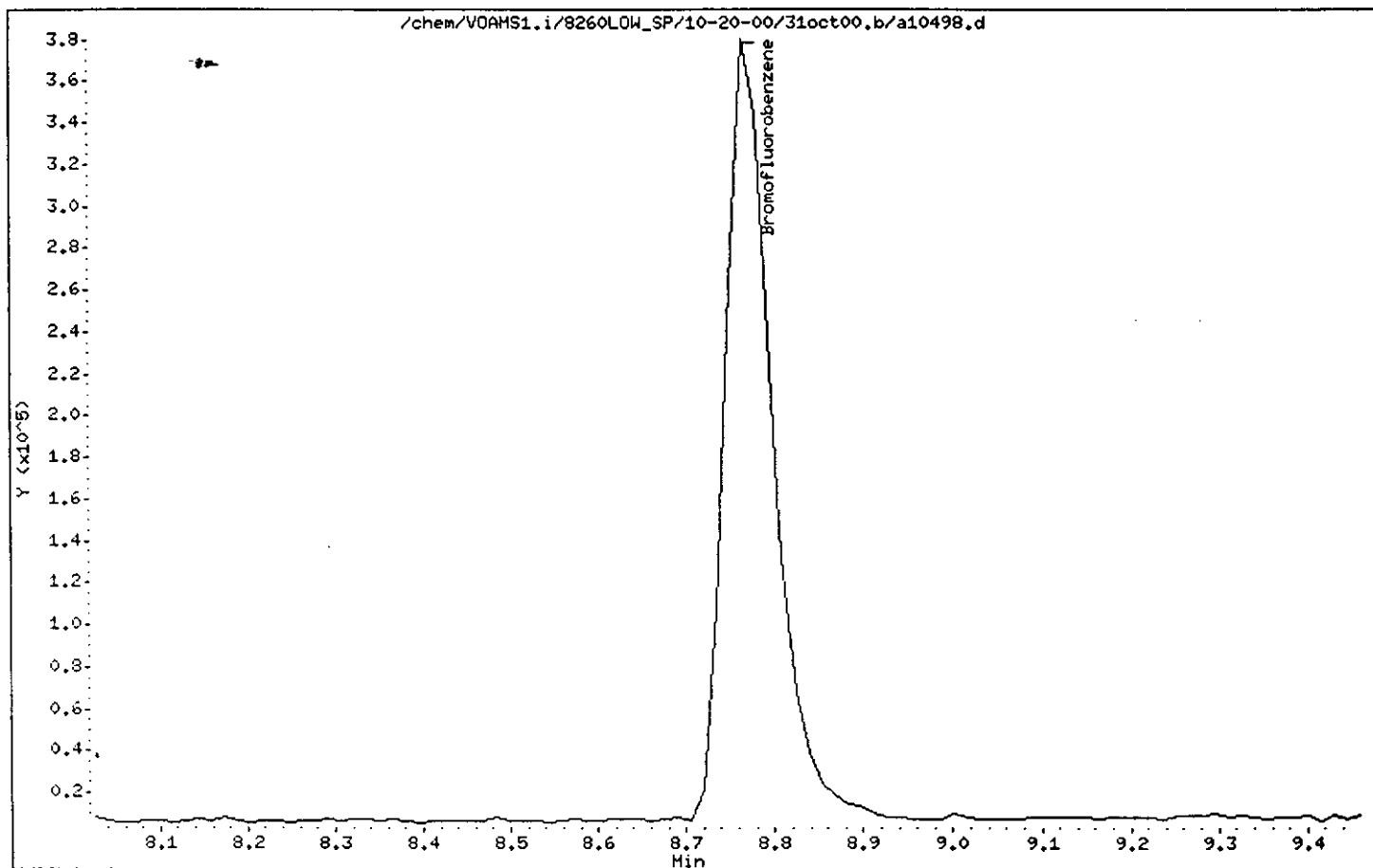
Instrument: VOAMS1.i

Sample Info: ABFB305 50ng

Operator: VOAMS 5

Column phase: DB-624

Column diameter: 0.53



VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab File ID: A10332

BFB Injection Date: 10/20/00

Instrument ID: VOAMS1

BFB Injection Time: 1211

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.0
75	30.0 - 60.0% of mass 95	51.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	91.6
175	5.0 - 9.0% of mass 174	7.1 (7.7)1
176	95.0 - 101.0% of mass 174	91.7 (100.1)1
177	5.0 - 9.0% of mass 176	6.8 (7.5)2

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

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

	CLIENT ID	LAB SAMPLE No.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ASTD020	ASTD020	A10335	10/20/00	1412
02	ASTD005	ASTD005	A10337	10/20/00	1515
03	ASTD050	ASTD050	A10339	10/20/00	1619
04	ASTD100	ASTD100	A10342	10/20/00	1823
05	ASTD200	ASTD200	A10343	10/20/00	1854
06					
07					
08					
09					
10					
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12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

Date : 20-OCT-2000 12:11

Client ID:

Instrument: VOAMS1.i

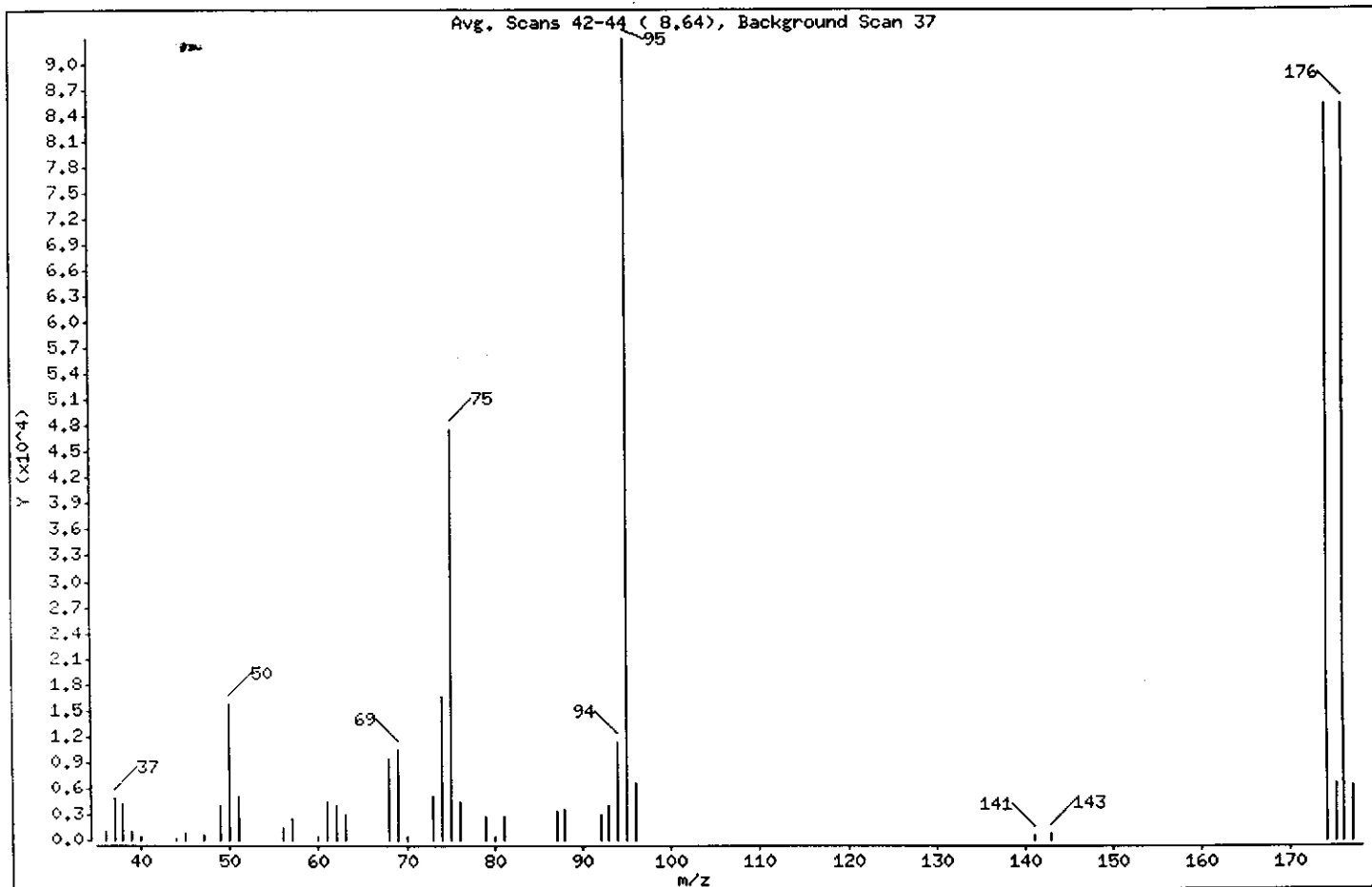
Sample Info: ABFB294 50ng

Operator: VOAMS 5

Column phase: DB-624

Column diameter: 0.53

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.02
75	30.00 - 60.00% of mass 95	51.30
96	5.00 - 9.00% of mass 95	7.23
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	91.61
175	5.00 - 9.00% of mass 174	7.06 (7.71)
176	95.00 - 101.00% of mass 174	91.72 (100.12)
177	5.00 - 9.00% of mass 176	6.84 (7.46)

Date : 20-OCT-2000 12:11

Client ID:

Instrument: VOAMS1.i

Sample Info: ABFB294 50ng

Operator: VOAMS 5

Column phase: DB-624

Column diameter: 0.53

Data File: a10332.d

Spectrum: Avg. Scans 42-44 (8.64), Background Scan 37

Location of Maximum: 95.00

Number of points: 40

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	977	56.00	1576	75.00	47664	96.00	6713
37.00	5014	57.00	2472	76.00	4552	141.00	687
38.00	4176	60.00	344	79.00	2748	143.00	757
39.00	1054	61.00	4550	80.00	334	174.00	85112
40.00	382	62.00	4159	81.00	2820	175.00	6558
44.00	124	63.00	3067	87.00	3437	176.00	85216
45.00	802	68.00	9493	88.00	3556	177.00	6354
47.00	711	69.00	10392	92.00	3026		
49.00	3985	70.00	416	93.00	4107		
50.00	15808	73.00	5162	94.00	11422		
51.00	5098	74.00	16656	95.00	92904		

Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/20oct00,b/a10332.d

Page 2

Date : 20-OCT-2000 12:11

Client ID:

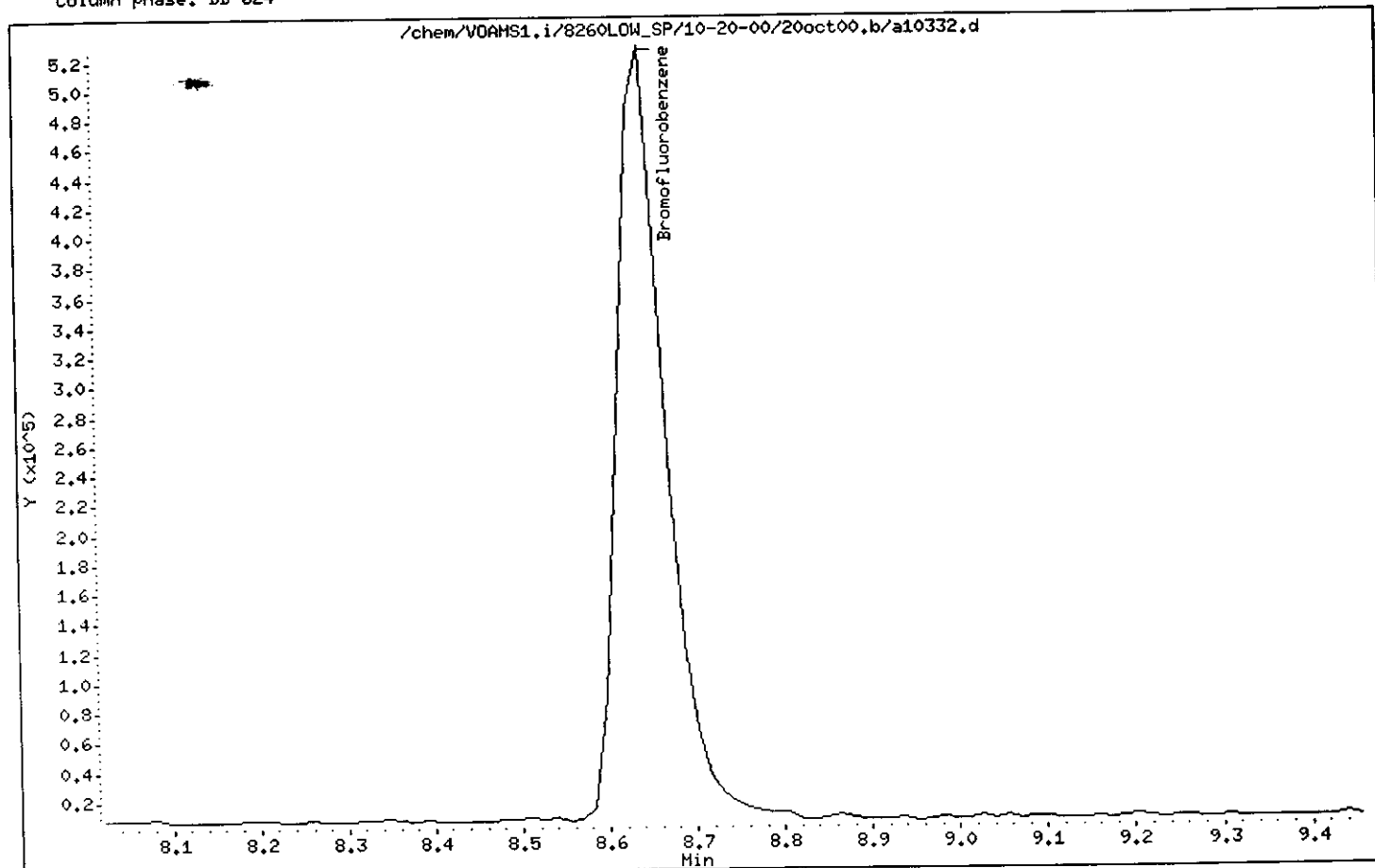
Instrument: VOAMS1.i

Sample Info: ABFB294 50ng

Operator: VOAMS 5

Column phase: DB-624

Column diameter: 0.53



VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab File ID: V22490

BFB Injection Date: 10/24/00

Instrument ID: VOAMS7

BFB Injection Time: 1353

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	24.2
75	30.0 - 60.0% of mass 95	56.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	73.9
175	5.0 - 9.0% of mass 174	5.7 (7.7)1
176	95.0 - 101.0% of mass 174	74.4 (100.8)1
177	5.0 - 9.0% of mass 176	4.8 (6.4)2

1-Value is % mass 174

2-Value is % mass 176

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

	CLIENT ID	LAB SAMPLE No.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD005	VSTD005	V22492	10/24/00	1452
02	VSTD010	VSTD010	V22493	10/24/00	1518
03	VSTD020	VSTD020	V22494	10/24/00	1545
04	VSTD050	VSTD050	V22495	10/24/00	1612
05	VSTD200	VSTD200	V22496	10/24/00	1639
06					
07					
08					
09					
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13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

Data File: /chem/VOAMS7.i/624/10-24-00/24oct00.b/v22490.d

Date : 24-OCT-2000 13:53

Client ID:

Instrument: VOAMS7.i

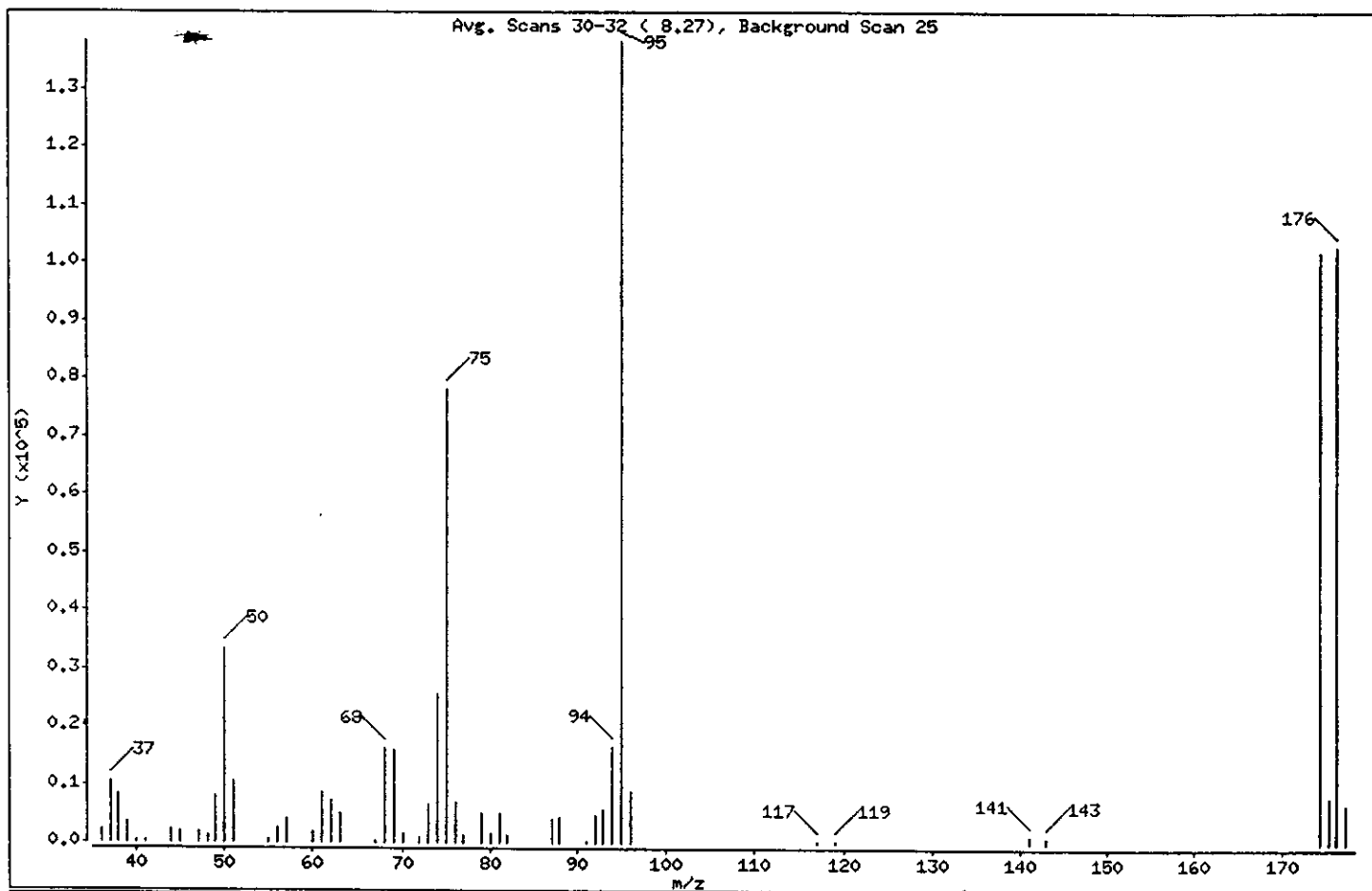
Sample Info: VBFB298 50ng

Operator: VOAMS 4

Column phase: DB-624

Column diameter: 0.53

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	24.23
75	30.00 - 60.00% of mass 95	56.50
96	5.00 - 9.00% of mass 95	6.32
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	73.86
175	5.00 - 9.00% of mass 174	5.68 (7.68)
176	95.00 - 101.00% of mass 174	74.41 (100.75)
177	5.00 - 9.00% of mass 176	4.79 (6.44)

Data File: /chem/VOAMS7.i/624/10-24-00/24oct00.b/v22490.d

Date : 24-OCT-2000 13:53

Client ID:

Instrument: VOAMS7.i

Sample Info: VBF8298 50ng

Operator: VOAMS 4

Column phase: DB-624

Column diameter: 0.53

Data File: v22490.d

Spectrum: Avg. Scans 30-32 (8.27), Background Scan 25

Location of Maximum: 95.00

Number of points: 50

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2115	55.00	738	74.00	25640	94.00	16384
37.00	10351	56.00	2674	75.00	78040	95.00	138112
38.00	8149	57.00	4252	76.00	6903	96.00	8733
39.00	3429	60.00	1977	77.00	1183	117.00	381
40.00	183	61.00	8435	79.00	4963	119.00	416
41.00	455	62.00	7185	80.00	1554	141.00	1174
44.00	2244	63.00	5077	81.00	5178	143.00	832
45.00	2015	67.00	335	82.00	1402	174.00	102008
47.00	1848	68.00	16324	87.00	4267	175.00	7839
48.00	1136	69.00	15999	88.00	4591	176.00	102776
49.00	7983	70.00	1553	91.00	473	177.00	6617
50.00	33464	72.00	890	92.00	4748		
51.00	10357	73.00	6815	93.00	5741		

Data File: /chem/VOAMS7.i/624/10-24-00/24oct00,b/v22490.d

Date : 24-OCT-2000 13:53

Client ID:

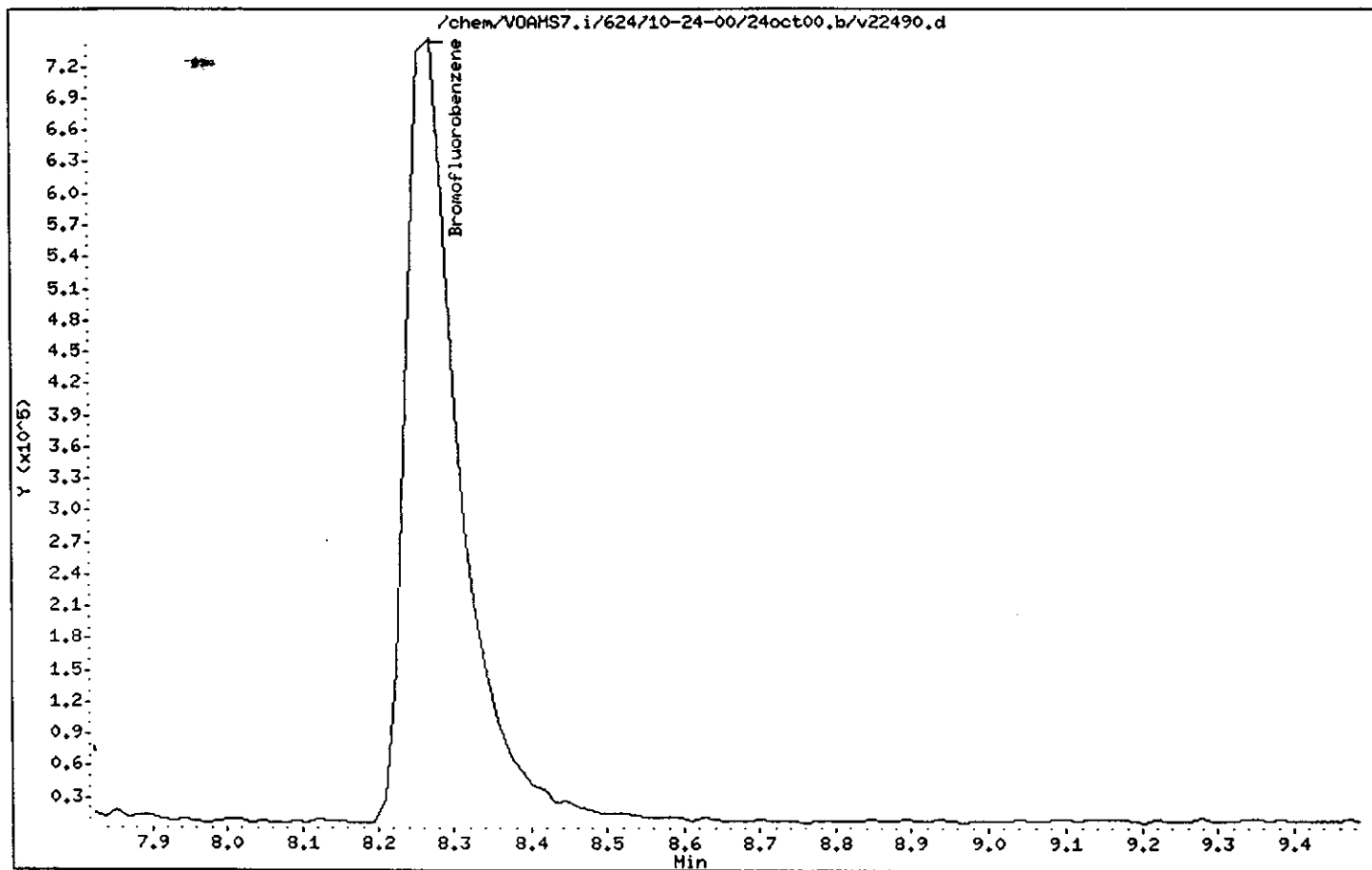
Instrument: VOAMS7.i

Sample Info: VBFB298 50ng

Operator: VOAMS 4

Column phase: DB-624

Column diameter: 0.53



VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab File ID: V22766

BFB Injection Date: 10/30/00

Instrument ID: VOAMS7

BFB Injection Time: 0802

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	25.1
75	30.0 - 60.0% of mass 95	58.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	75.3
175	5.0 - 9.0% of mass 174	5.5 (7.3)1
176	95.0 - 101.0% of mass 174	73.1 (97.1)1
177	5.0 - 9.0% of mass 176	4.9 (6.8)2

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

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

	CLIENT ID	LAB SAMPLE No.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD304	VSTD304	V22770	10/30/00	1045
02	VV304A	VV304A	V22780	10/30/00	1607
03	MW-1	237821	V22790	10/30/00	2159
04	PZ-2	237822	V22791	10/30/00	2226
05	TRIP_BLANK-1	237823	V22792	10/30/00	2253
06	FIELD_BLANK-	237824	V22793	10/30/00	2319
07	TRIP_BLANK-2	237830	V22794	10/30/00	2347
08	FIELD_BLANK-	237831	V22795	10/31/00	0013
09					
10					
11					
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19					
20					
21					
22					

Data File: /chem/VOAMS7.i/624/10-24-00/30oct00.b/v22766.d

Date : 30-OCT-2000 08:02

Client ID:

Instrument: VOAMS7.i

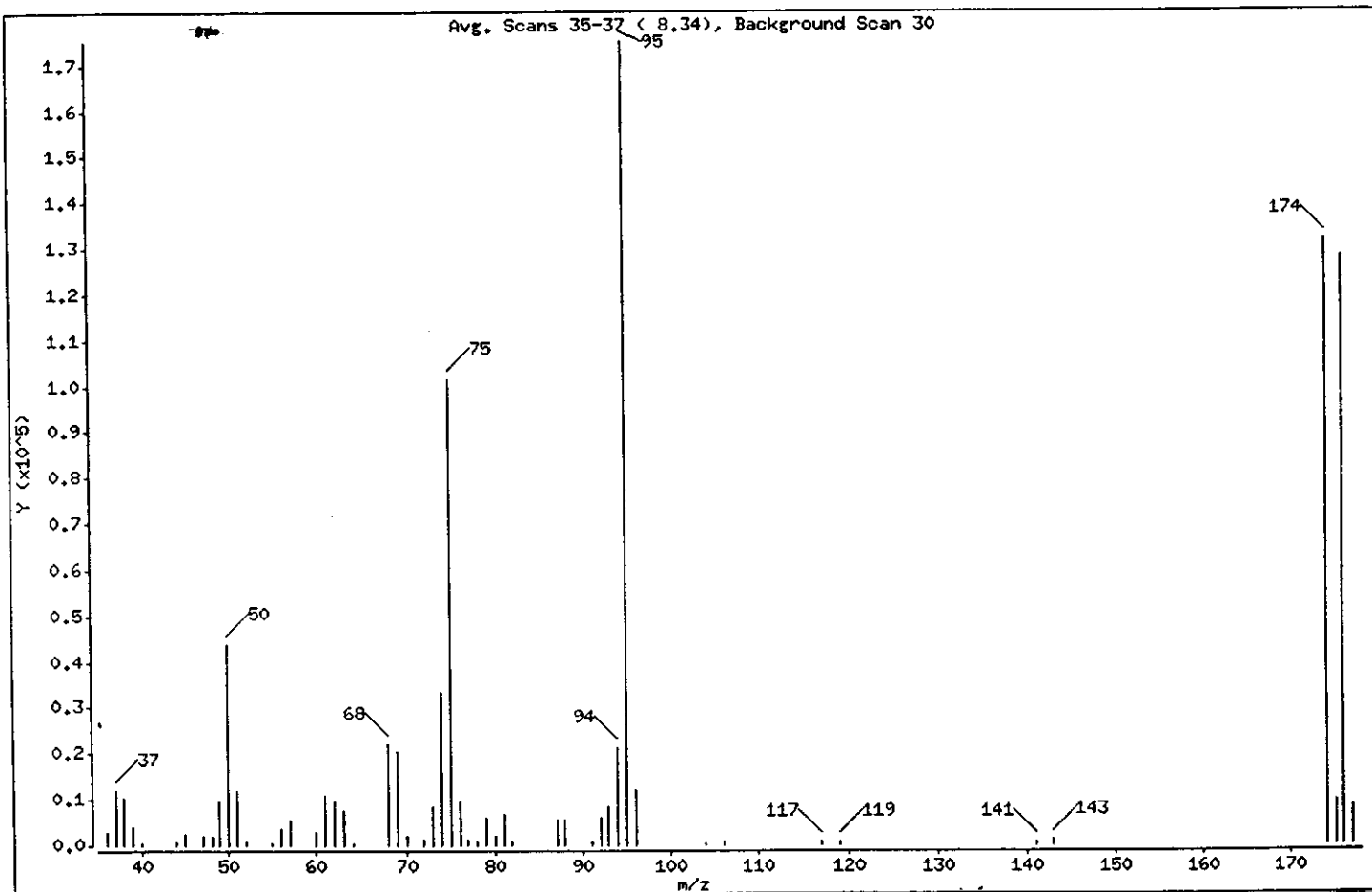
Sample Info: VBFB304 50ng

Operator: VOAMS 4

Column phase: DB-624

Column diameter: 0.53

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	* RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	25.05
75	30.00 - 60.00% of mass 95	57.96
96	5.00 - 9.00% of mass 95	6.84
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	75.26
175	5.00 - 9.00% of mass 174	5.49 (7.29)
176	95.00 - 101.00% of mass 174	73.09 (97.13)
177	5.00 - 9.00% of mass 176	4.94 (6.75)

Data File: /chem/VOAMS7.i/624/10-24-00/30oct00.b/v22766.d

Date : 30-OCT-2000 08:02

Client ID:

Instrument: VOAMS7.i

Sample Info: VBFB304 50ng

Operator: VOAMS 4

Column phase: DB-624

Column diameter: 0.53

Data File: v22766.d

Spectrum: Avg. Scans 35-37 (8.34), Background Scan 30

Location of Maximum: 95.00

Number of points: 53

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2664	56.00	3510	76.00	9736	96.00	11971
37.00	11928	57.00	5802	77.00	1256	104.00	477
38.00	10666	60.00	2705	78.00	745	106.00	774
39.00	3994	61.00	10736	79.00	6055	117.00	720
40.00	347	62.00	9678	80.00	1957	119.00	790
44.00	950	63.00	7624	81.00	6786	141.00	932
45.00	2543	64.00	377	82.00	851	143.00	1343
47.00	2075	68.00	22136	87.00	5538	174.00	131776
48.00	1973	69.00	20480	88.00	5607	175.00	9608
49.00	9541	70.00	2053	91.00	730	176.00	127992
50.00	43864	72.00	1148	92.00	5985	177.00	8644
51.00	12216	73.00	8385	93.00	8407		
52.00	753	74.00	33424	94.00	21264		
55.00	336	75.00	101496	95.00	175104		

Data File: /chem/VOAMS7.i/624/10-24-00/30oct00.b/v22766.d

Date : 30-OCT-2000 08:02

Client ID:

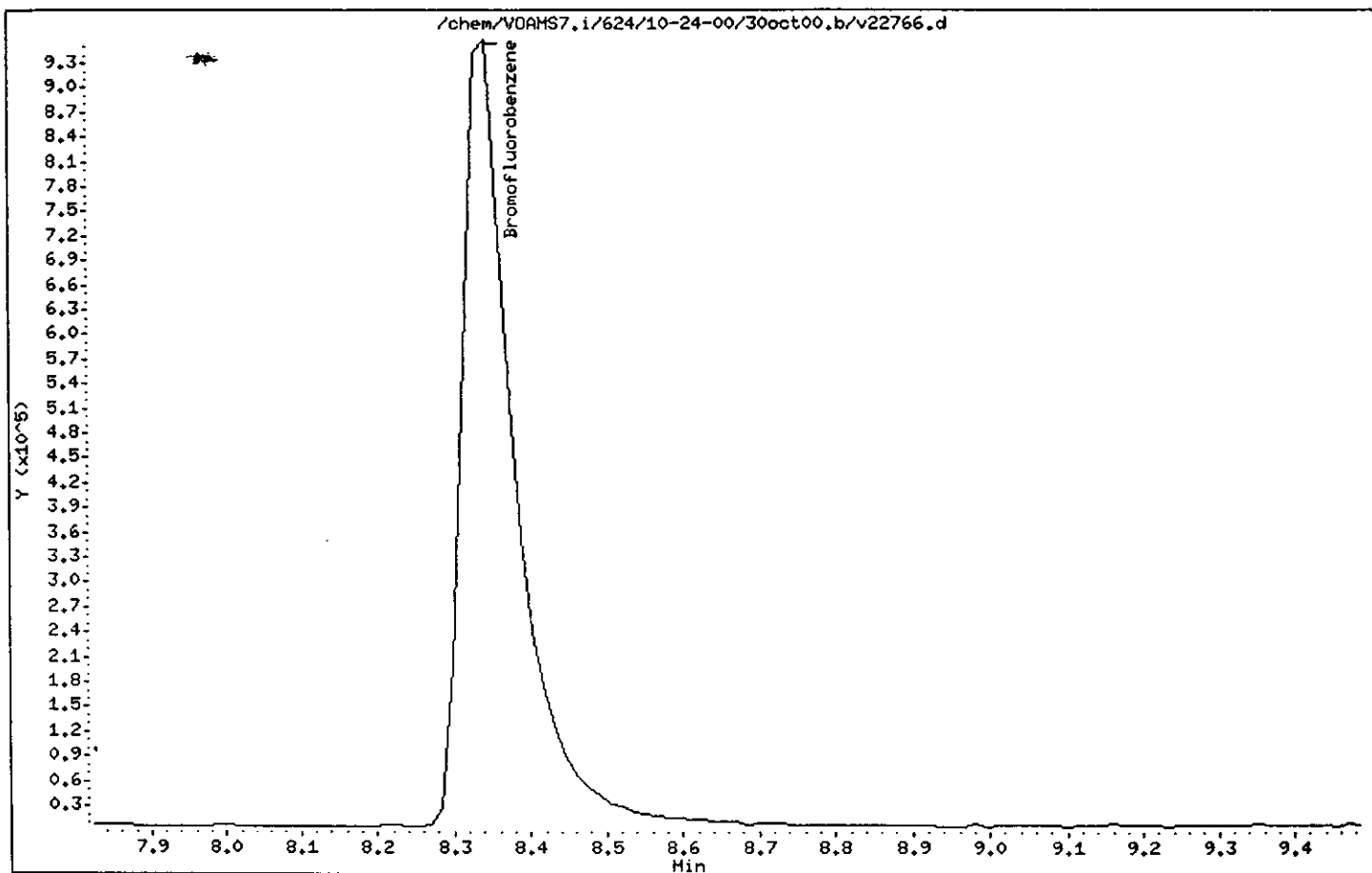
Instrument: VOAMS7.i

Sample Info: VBF304 50ng

Operator: VOAMS 4

Column phase: DB-624

Column diameter: 0.53



VOLATILE METHOD BLANK SUMMARY

LAB SAMPLE NO.

AV303

Matrix: SOIL

Date Analyzed: 10/29/00

Level: LOW

Time Analyzed: 1352

Lab File ID: A10440

Heated Purge (Y/N) Y

Instrument ID: VOAMS1

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

	CLIENT ID.	LAB SAMPLE NO	LAB FILE ID	TIME ANALYZED
	=====	=====	=====	=====
01	EB-1_6-12	237812	A10441	1436
02	EB-1_6-12R1	237812R1	A10453	2053
03	EB-2_CATCH_BASIN	237813	A10454	2124
04	EB-3_16-16.5	237814	A10455	2156
05				
06				
07				
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09				
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28				
29				
30				

COMMENTS:

Client ID: AV303
Site:

Lab Sample No: AV303
Lab Job No: F104

Date Sampled: _____
Date Received: _____
Date Analyzed: 10/29/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10440.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.0 g
Purge Volume: 5.0 ml
% Moisture: 0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	0.8J	3.0
Acetone	ND	5.0
Carbon Disulfide	ND	5.0
Trichlorofluoromethane	ND	5.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	2.0
2-Butanone	ND	5.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	2.0
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	ND	1.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	3.0
Benzene	ND	1.0
trans-1,3-Dichloropropene	ND	5.0
2-Chloroethyl Vinyl Ether	ND	5.0
Bromoform	ND	4.0
4-Methyl-2-Pentanone	ND	5.0
2-Hexanone	ND	5.0
Tetrachloroethene	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	4.0

Client ID: AV303
Site:

Lab Sample No: AV303
Lab Job No: F104

Date Sampled: _____
Date Received: _____
Date Analyzed: 10/29/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10440.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.0 g
Purge Volume: 5.0 ml
% Moisture: 0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

<u>Parameter</u>	<u>Analytical Results</u> <u>Units: ug/kg</u> <u>(Dry Weight)</u>	<u>Quantitation</u>
		<u>Limit</u> <u>Units: ug/kg</u>
Styrene	ND	5.0
Xylene (Total)	ND	5.0
Ethyl Ether	ND	5.0
Acrolein	ND	100
Freon TF	ND	5.0
Isopropanol	ND	1000
Acetonitrile	ND	100
TBA	ND	100
Acrylonitrile	ND	50
MTBE	ND	5.0
Hexane	ND	5.0
DIPE	ND	5.0
Ethyl Acetate	ND	10
Vinyl Acetate	ND	5.0
Tetrahydrofuran	ND	5.0
Cyclohexane	ND	5.0
Isobutanol	ND	500
Isopropyl Acetate	ND	10
n-Heptane	ND	5.0
n-Butanol	ND	500
Propyl Acetate	ND	10
Butyl Acetate	ND	10
1,2-Dibromoethane	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
Naphthalene	ND	5.0
Methylnaphthalene (total)	ND	5.0
Dimethylnaphthalene (total)	ND	5.0
Dichlorodifluoromethane	ND	5.0
1,1-Dichloropropene	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
1,4-Dioxane	ND	1000

Client ID: AV303
Site:

Lab Sample No: AV303
Lab Job No: F104

Date Sampled: _____
Date Received: _____
Date Analyzed: 10/29/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10440.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.0 g
Purge Volume: 5.0 ml
% Moisture: 0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u> <u>Units: ug/kg</u>
Methyl Acrylate	ND		5.0
1,1,1,2-Tetrachloroethane	ND		5.0
1,2,3-Trichlorobenzene	ND		5.0
1,2,3-Trichloropropane	ND		5.0
1,2,4-Trimethylbenzene	ND		5.0
1,2-Dibromo-3-chloropropane	ND		5.0
1,3,5-Trimethylbenzene	ND		5.0
1,3-Dichloropropane	ND		5.0
2,2-Dichloropropane	ND		5.0
2-Chlorotoluene	ND		5.0
4-Chlorotoluene	ND		5.0
Bromobenzene	ND		5.0
Bromochloromethane	ND		5.0
Dibromomethane	ND		5.0
Isopropylbenzene	ND		5.0
n-Butylbenzene	ND		5.0
n-Propylbenzene	ND		5.0
p-Isopropyltoluene	ND		5.0
sec-Butylbenzene	ND		5.0
tert-Butylbenzene	ND		5.0
Allyl chloride	ND		5.0
Benzyl chloride	ND		5.0
Epichlorohydrin	ND	100	
Isoprene	ND		5.0
Methyl methacrylate	ND		5.0
n-Pentane	ND		5.0
Allyl alcohol	ND	1000	
Cyclohexene	ND		5.0
Ethyl methacrylate	ND		5.0
Methyl acetate	ND		5.0
Methylcyclohexane	ND		5.0
Ethanol	ND	500	
p-Ethyltoluene	ND		5.0
1,4-Diethylbenzene	ND		5.0

Client ID: AV303
Site:

Lab Sample No: AV303
Lab Job No: F104

Date Sampled: _____
Date Received: _____
Date Analyzed: 10/29/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10440.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.0 g
Purge Volume: 5.0 ml
% Moisture: 0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

<u>Parameter</u>	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
1,2,4,5-Tetramethylbenzene	ND	5.0

Client ID: AV303
Site:

Lab Sample No: AV303
Lab Job No: F104

Date Sampled: _____
Date Received: _____
Date Analyzed: 10/29/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10440.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.0 g
Purge Volume: 5.0 ml
% Moisture: 0.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
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24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/29oct00.b/a10440.d
 Report Date: 02-Nov-2000 17:40

STL Envirotech

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS1.i/8260LOW_SP/10-20-00/29oct00.b/a10440.d
 Lab Smp Id: AV303 Client Smp ID: AV303
 Inj Date : 29-OCT-2000 13:52
 Operator : VOAMS 8 Inst ID: VOAMS1.i
 Smp Info : AV303
 Misc Info :
 Comment :
 Method : /chem/VOAMS1.i/8260LOW_SP/10-20-00/29oct00.b/8260L_00.m
 Meth Date : 29-Oct-2000 12:18 johnz Quant Type: ISTD
 Cal Date : 20-OCT-2000 18:54 Cal File: a10343.d
 Als bottle: 6 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	5.00000	Volume of final extract (mL)
Ws	5.00000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ug/L)	(ug/Kg)
6 Methylene Chloride	84	6.719	6.687	(0.664)	26956	0.77541	0.78(a)	
\$ 16 1,2-Dichloroethane-d4 (SUR)	65	9.659	9.627	(0.955)	1260038	41.2904	41	
* 19 Fluorobenzene	96	10.117	10.085	(1.000)	5117896	50.0000		
\$ 37 Toluene-d8 (SUR)	98	12.052	12.020	(0.877)	3669476	46.8627	47	
* 32 Chlorobenzene-d5	117	13.736	13.719	(1.000)	4039214	50.0000		
\$ 41 Bromofluorobenzene (SUR)	174	15.022	15.004	(0.924)	2459970	49.2714	49	
* 91 1,4-Dichlorobenzene-d4	152	16.262	16.245	(1.000)	2265961	50.0000		

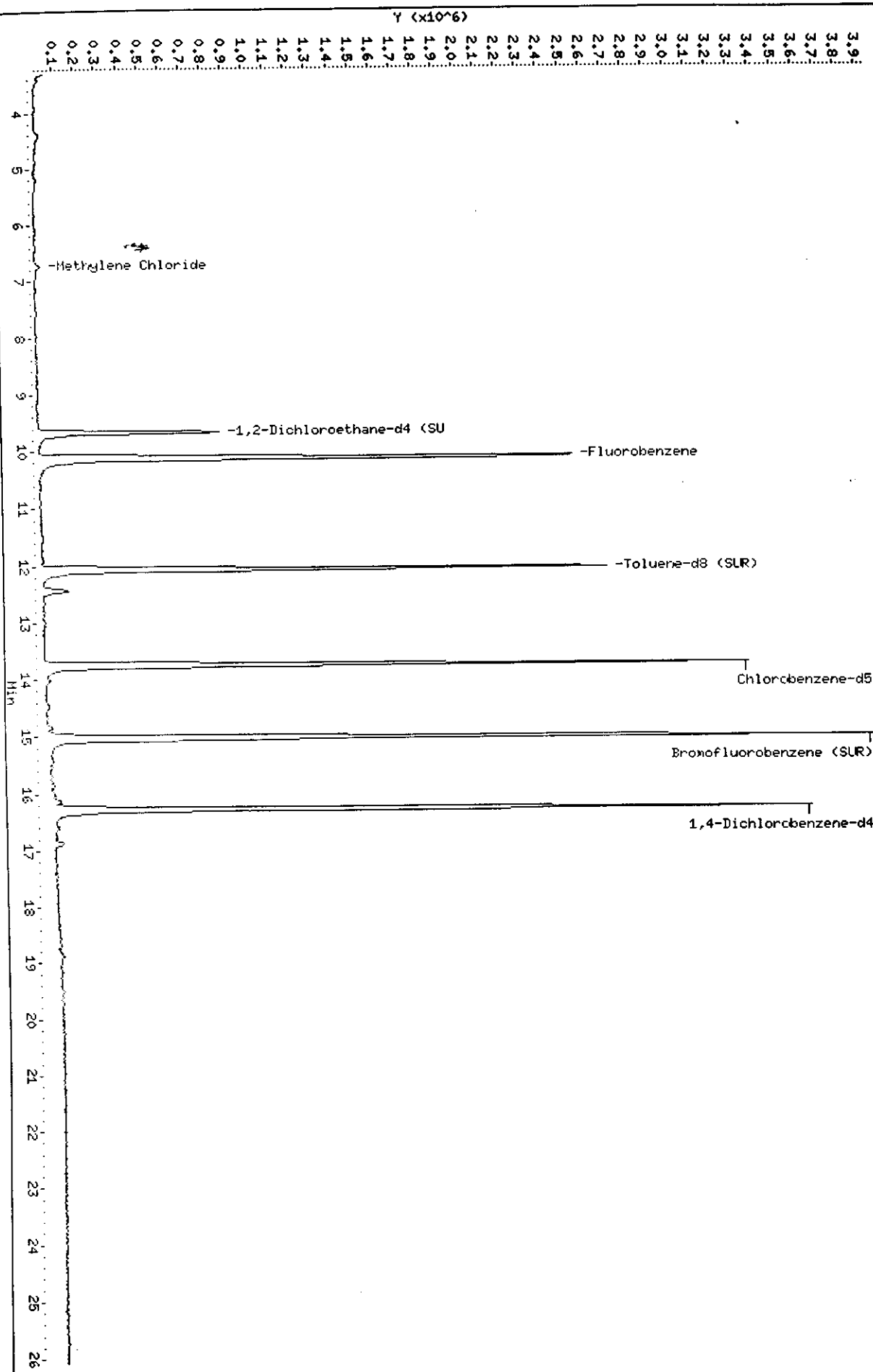
QC Flag Legend

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

Data File: /chem/VOAHS1.i/826010M.SP/10-20-00/29oct00.b/a10440.d
Date : 29-OCT-2000 13:52
Client ID: AV303
Sample Info: AV303
Column phase: DB624

Instrument: VOAHS1.i
Operator: VOAHS 8
Column diameter: 0.53

/chem/VOAHS1.i/826010M.SP/10-20-00/29oct00.b/a10440.d



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/29oct00.b/a10440.d

Date : 29-OCT-2000 13:52

Client ID: AV303

Instrument: VOAMS1.i

Sample Info: AV303

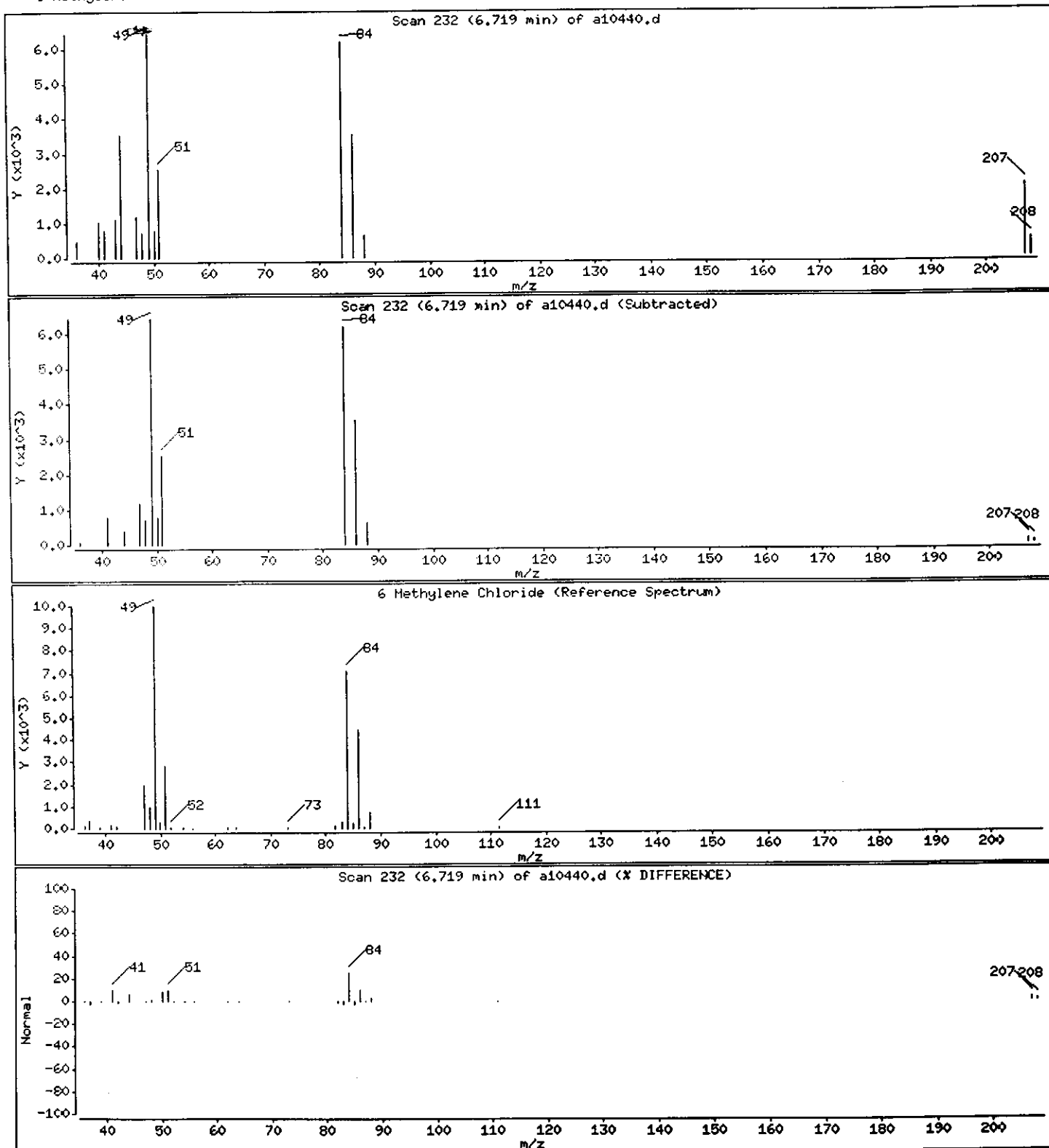
Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

6 Methylene Chloride

Concentration: 0.78 ug/Kg



VOLATILE METHOD BLANK SUMMARY

LAB SAMPLE NO.

AV304

Matrix: SOIL

Date Analyzed: 10/30/00

Level: LOW

Time Analyzed: 1054

Lab File ID: A10462

Heated Purge (Y/N) Y

Instrument ID: VOAMS1

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

	CLIENT ID.	LAB SAMPLE NO	LAB FILE ID	TIME ANALYZED
	=====	=====	=====	=====
01	EB-4_1.5-2	237815	A10463	1135
02	EB-5_1.2-1.7	237816	A10464	1206
03	EB-6_OUTFALL	237817	A10465	1238
04	TPE-2	237819	A10467	1340
05	TPE-3	237820	A10468	1412
06	EB-4_16-16.5	237839	A10469	1444
07	EB-3_16-16.5R1	237814R1	A10470	1516
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COMMENTS:

Client ID: AV304
Site:

Lab Sample No: AV304
Lab Job No: F104

Date Sampled: _____
Date Received: _____
Date Analyzed: 10/30/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10462.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.0 g
Purge Volume: 5.0 ml
% Moisture: 0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	0.2J	3.0
Acetone	ND	5.0
Carbon Disulfide	ND	5.0
Trichlorofluoromethane	ND	5.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	2.0
2-Butanone	ND	5.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	2.0
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	ND	1.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	3.0
Benzene	ND	1.0
trans-1,3-Dichloropropene	ND	5.0
2-Chloroethyl Vinyl Ether	ND	5.0
Bromoform	ND	4.0
4-Methyl-2-Pentanone	ND	5.0
2-Hexanone	ND	5.0
Tetrachloroethene	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	4.0

Client ID: AV304
Site:

Lab Sample No: AV304
Lab Job No: F104

Date Sampled: _____
Date Received: _____
Date Analyzed: 10/30/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10462.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.0 g
Purge Volume: 5.0 ml
% Moisture: 0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u> <u>Units: ug/kg</u>
Styrene	ND		5.0
Xylene (Total)	ND		5.0
Ethyl Ether	ND		5.0
Acrolein	ND		100
Freon TF	ND		5.0
Isopropanol	ND		1000
Acetonitrile	ND		100
TBA	ND		100
Acrylonitrile	ND		50
MTBE	ND		5.0
Hexane	ND		5.0
DIPE	ND		5.0
Ethyl Acetate	ND		10
Vinyl Acetate	ND		5.0
Tetrahydrofuran	ND		5.0
Cyclohexane	ND		5.0
Isobutanol	ND		500
Isopropyl Acetate	ND		10
n-Heptane	ND		5.0
n-Butanol	ND		500
Propyl Acetate	ND		10
Butyl Acetate	ND		10
1,2-Dibromoethane	ND		5.0
1,3-Dichlorobenzene	ND		5.0
1,4-Dichlorobenzene	ND		5.0
1,2-Dichlorobenzene	ND		5.0
Naphthalene	ND		5.0
Methylnaphthalene (total)	ND		5.0
Dimethylnaphthalene (total)	ND		5.0
Dichlorodifluoromethane	ND		5.0
1,1-Dichloropropene	ND		5.0
1,2,4-Trichlorobenzene	ND		5.0
Hexachlorobutadiene	ND		5.0
1,4-Dioxane	ND		1000

Client ID: AV304
Site:

Lab Sample No: AV304
Lab Job No: F104

Date Sampled: _____
Date Received: _____
Date Analyzed: 10/30/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10462.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.0 g
Purge Volume: 5.0 ml
% Moisture: 0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

<u>Parameter</u>	Analytical Results Units: ug/kg (Dry Weight)	Quantitation
		Limit Units: ug/kg
Methyl Acrylate	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0
1,2,3-Trichloropropane	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
1,2-Dibromo-3-chloropropane	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
1,3-Dichloropropane	ND	5.0
2,2-Dichloropropane	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
Bromobenzene	ND	5.0
Bromochloromethane	ND	5.0
Dibromomethane	ND	5.0
Isopropylbenzene	ND	5.0
n-Butylbenzene	ND	5.0
n-Propylbenzene	ND	5.0
p-Isopropyltoluene	ND	5.0
sec-Butylbenzene	ND	5.0
tert-Butylbenzene	ND	5.0
Allyl chloride	ND	5.0
Benzyl chloride	ND	5.0
Epichlorohydrin	ND	100
Isoprene	ND	5.0
Methyl methacrylate	ND	5.0
n-Pentane	ND	5.0
Allyl alcohol	ND	1000
Cyclohexene	ND	5.0
Ethyl methacrylate	ND	5.0
Methyl acetate	ND	5.0
Methylcyclohexane	ND	5.0
Ethanol	ND	500
p-Ethyltoluene	ND	5.0
1,4-Diethylbenzene	ND	5.0

Client ID: AV304
Site:

Lab Sample No: AV304
Lab Job No: F104

Date Sampled: _____
Date Received: _____
Date Analyzed: 10/30/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10462.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.0 g
Purge Volume: 5.0 ml
% Moisture: 0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

<u>Parameter</u>	<u>Analytical Results</u> <u>Units: ug/kg</u> <u>(Dry Weight)</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/kg</u>
1,2,4,5-Tetramethylbenzene	ND	5.0

Client ID: AV304
Site:

Lab Sample No: AV304
Lab Job No: F104

Date Sampled: _____
Date Received: _____
Date Analyzed: 10/30/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10462.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.0 g
Purge Volume: 5.0 ml
% Moisture: 0.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
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27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/30oct00.b/a10462.d
 Report Date: 03-Nov-2000 14:02

STL Envirotech

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS1.i/8260LOW_SP/10-20-00/30oct00.b/a10462.d
 Lab Smp Id: AV304 Client Smp ID: AV304
 Inj Date : 30-OCT-2000 10:54
 Operator : VOAMS 8 Inst ID: VOAMS1.i
 Smp Info : AV304
 Misc Info :
 Comment :
 Method : /chem/VOAMS1.i/8260LOW_SP/10-20-00/30oct00.b/8260L_00.m
 Meth Date : 03-Nov-2000 14:01 maryb Quant Type: ISTD
 Cal Date : 20-OCT-2000 18:54 Cal File: a10343.d
 Als bottle: 5 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	5.00000	Volume of final extract (mL)
Ws	5.00000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					(ug/L)	(ug/Kg)
6 Methylene Chloride	84	6.792	6.716	(0.669)	6477	0.22443	0.22 (aM)
\$ 16 1,2-Dichloroethane-d4 (SUR)	65	9.703	9.671	(0.956)	1152193	45.4806	45
* 19 Fluorobenzene	96	10.146	10.129	(1.000)	4248701	50.0000	
\$ 37 Toluene-d8 (SUR)	98	12.081	12.064	(0.877)	3240461	49.3144	49
* 32 Chlorobenzene-d5	117	13.780	13.763	(1.000)	3389637	50.0000	
\$ 41 Bromofluorobenzene (SUR)	174	15.051	15.048	(0.924)	2102684	50.7170	51
* 91 1,4-Dichlorobenzene-d4	152	16.292	16.289	(1.000)	1881644	50.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).
 M - Compound response manually integrated.

Data File: /chem/VOAHS1.i/8260L04.SP/10-20-00/30oct00.b/a10462.d

Date : 30-OCT-2000 10:54

Client ID: AV304

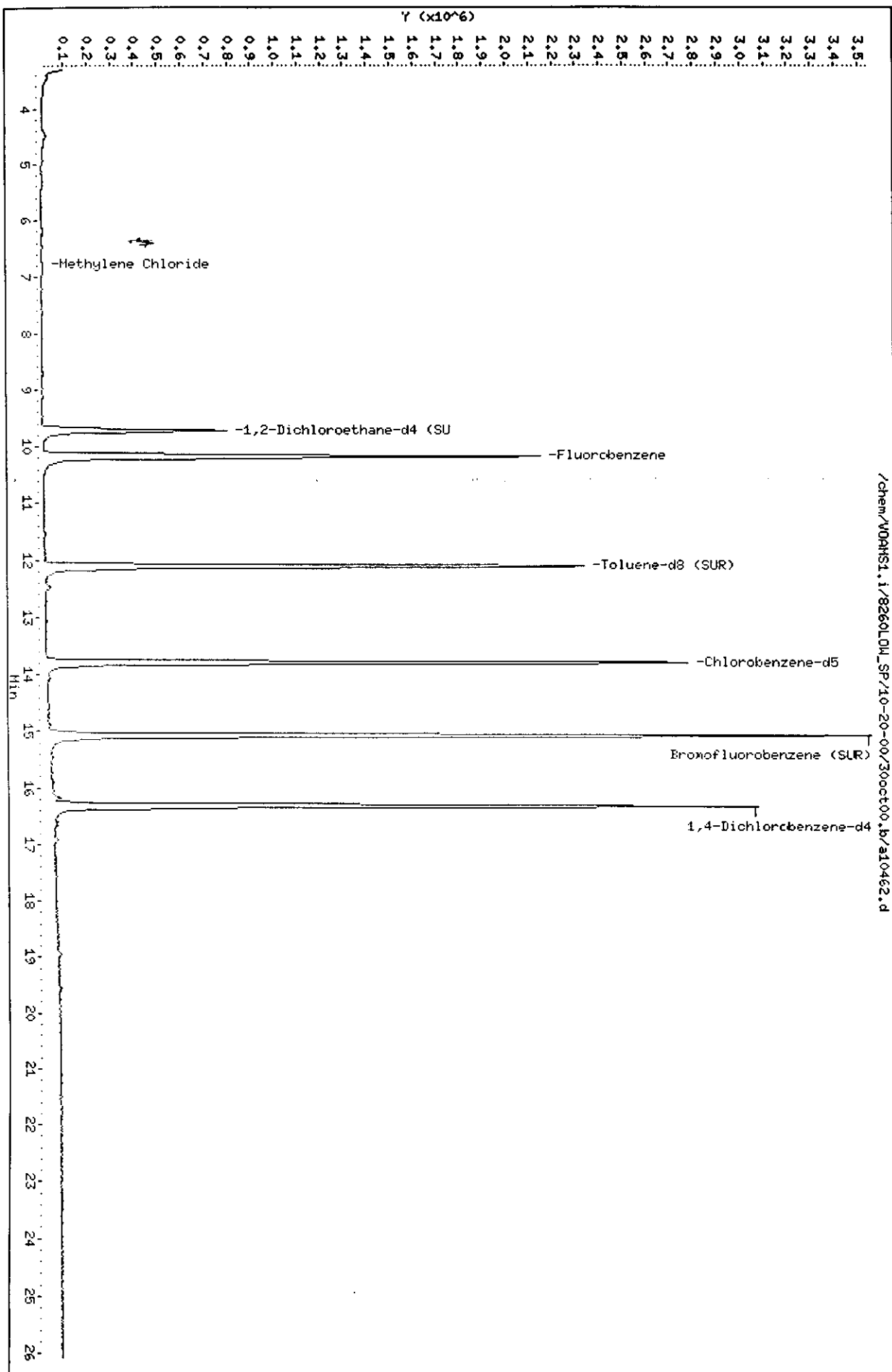
Sample Info: AV304

Column phase: DB624

Instrument: VOAHS1.i

Operator: VOAHS 8

Column diameter: 0.53



Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/30oct00.b/a10462.d

Date : 30-OCT-2000 10:54

Client ID: AV304

Sample Info: AV304

Instrument: VOAMS1.i

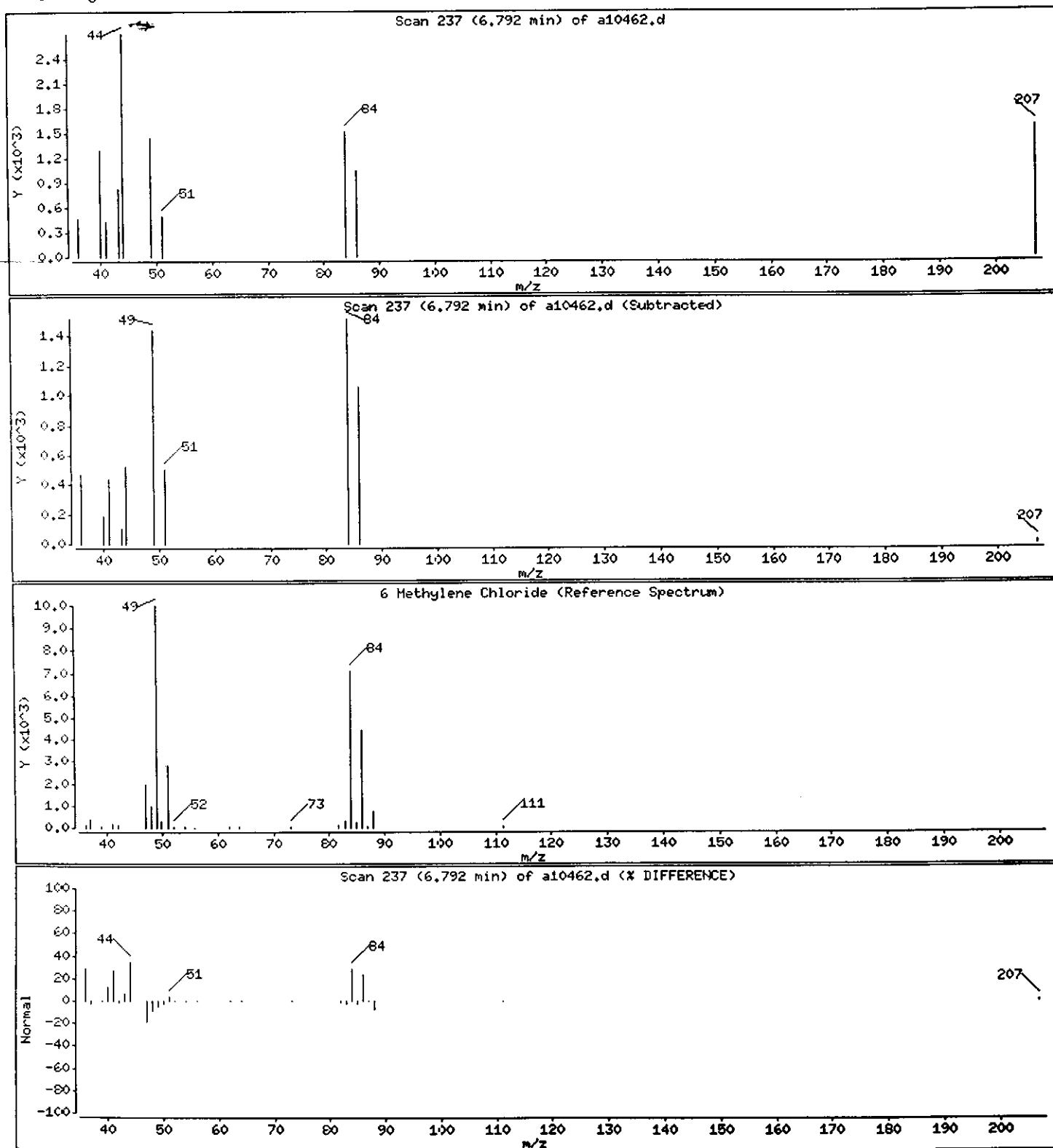
Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

6 Methylene Chloride

Concentration: 0.22 ug/Kg



VOLATILE METHOD BLANK SUMMARY

LAB SAMPLE NO.

AV304A

Matrix: SOIL

Date Analyzed: 10/30/00

Level: LOW

Time Analyzed: 2303

Lab File ID: A10482

Heated Purge (Y/N) Y

Instrument ID: VOAMS1

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

	CLIENT ID.	LAB SAMPLE NO	LAB FILE ID	TIME ANALYZED
	=====	=====	=====	=====
01	EB-5_1.2-1.7R1	237816R1	A10483	2337
02	EB-6_OUTFALLR1	237817R1	A10484	0008
03	TPE-1	237818	A10485	0040
04	TPE-2R1	237819R1	A10486	0111
05	EB-4_16-16.5R1	237839R1	A10487	0143
06				
07				
08				
09				
10				
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COMMENTS:

Client ID: AV304A
Site:

Lab Sample No: AV304A
Lab Job No: F104

Date Sampled: _____
Date Received: _____
Date Analyzed: 10/30/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10482.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.0 g
Purge Volume: 5.0 ml
% Moisture: 0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	0.2J	3.0
Acetone	ND	5.0
Carbon Disulfide	ND	5.0
Trichlorofluoromethane	ND	5.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	2.0
2-Butanone	ND	5.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	2.0
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	ND	1.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	3.0
Benzene	ND	1.0
trans-1,3-Dichloropropene	ND	5.0
2-Chloroethyl Vinyl Ether	ND	5.0
Bromoform	ND	4.0
4-Methyl-2-Pentanone	ND	5.0
2-Hexanone	ND	5.0
Tetrachloroethene	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	4.0

Client ID: AV304A
Site:

Lab Sample No: AV304A
Lab Job No: F104

Date Sampled: _____
Date Received: _____
Date Analyzed: 10/30/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10482.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.0 g
Purge Volume: 5.0 ml
% Moisture: 0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

<u>Parameter</u>	Analytical Results		Quantitation
	Units: ug/kg (Dry Weight)		Limit Units: ug/kg
Styrene	ND		5.0
Xylene (Total)	ND		5.0
Ethyl Ether	ND		5.0
Acrolein	ND		100
Freon TF	ND		5.0
Isopropanol	ND		1000
Acetonitrile	ND		100
TBA	ND		100
Acrylonitrile	ND		50
MTBE	ND		5.0
Hexane	ND		5.0
DIPE	ND		5.0
Ethyl Acetate	ND		10
Vinyl Acetate	ND		5.0
Tetrahydrofuran	ND		5.0
Cyclohexane	ND		5.0
Isobutanol	ND		500
Isopropyl Acetate	ND		10
n-Heptane	ND		5.0
n-Butanol	ND		500
Propyl Acetate	ND		10
Butyl Acetate	ND		10
1,2-Dibromoethane	ND		5.0
1,3-Dichlorobenzene	ND		5.0
1,4-Dichlorobenzene	ND		5.0
1,2-Dichlorobenzene	ND		5.0
Naphthalene	ND		5.0
Methylnaphthalene (total)	ND		5.0
Dimethylnaphthalene (total)	ND		5.0
Dichlorodifluoromethane	ND		5.0
1,1-Dichloropropene	ND		5.0
1,2,4-Trichlorobenzene	ND		5.0
Hexachlorobutadiene	ND		5.0
1,4-Dioxane	ND		1000

Client ID: AV304A
Site:

Lab Sample No: AV304A
Lab Job No: F104

Date Sampled: _____
Date Received: _____
Date Analyzed: 10/30/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10482.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.0 g
Purge Volume: 5.0 ml
% Moisture: 0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

<u>Parameter</u>	<u>Analytical Results</u>	
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/kg</u>
Methyl Acrylate	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0
1,2,3-Trichloropropane	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
1,2-Dibromo-3-chloropropane	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
1,3-Dichloropropane	ND	5.0
2,2-Dichloropropane	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
Bromobenzene	ND	5.0
Bromochloromethane	ND	5.0
Dibromomethane	ND	5.0
Isopropylbenzene	ND	5.0
n-Butylbenzene	ND	5.0
n-Propylbenzene	ND	5.0
p-Isopropyltoluene	ND	5.0
sec-Butylbenzene	ND	5.0
tert-Butylbenzene	ND	5.0
Allyl chloride	ND	5.0
Benzyl chloride	ND	5.0
Epichlorohydrin	ND	100
Isoprene	ND	5.0
Methyl methacrylate	ND	5.0
n-Pentane	ND	5.0
Allyl alcohol	ND	1000
Cyclohexene	ND	5.0
Ethyl methacrylate	ND	5.0
Methyl acetate	ND	5.0
Methylcyclohexane	ND	5.0
Ethanol	ND	500
p-Ethyltoluene	ND	5.0
1,4-Diethylbenzene	ND	5.0

Client ID: AV304A
Site:

Lab Sample No: AV304A
Lab Job No: F104

Date Sampled: _____
Date Received: _____
Date Analyzed: 10/30/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10482.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.0 g
Purge Volume: 5.0 ml
% Moisture: 0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

<u>Parameter</u>	<u>Analytical Results</u> <u>Units: ug/kg</u> <u>(Dry Weight)</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/kg</u>
1,2,4,5-Tetramethylbenzene	ND	5.0

Client ID: AV304A
Site:

Lab Sample No: AV304A
Lab Job No: F104

Date Sampled: _____
Date Received: _____
Date Analyzed: 10/30/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10482.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.0 g
Purge Volume: 5.0 ml
% Moisture: 0.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
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22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/30oct00a.b/a10482.d
 Report Date: 06-Nov-2000 16:13

STL Envirotech

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS1.i/8260LOW_SP/10-20-00/30oct00a.b/a10482.d
 Lab Smp Id: AV304A Client Smp ID: AV304A
 Inj Date : 30-OCT-2000 23:03
 Operator : VOAMS 8 Inst ID: VOAMS1.i
 Smp Info : AV304A
 Misc Info :
 Comment :
 Method : /chem/VOAMS1.i/8260LOW_SP/10-20-00/30oct00a.b/8260L_00.m
 Meth Date : 06-Nov-2000 16:13 maryb Quant Type: ISTD
 Cal Date : 20-OCT-2000 18:54 Cal File: a10343.d
 Als bottle: 5 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: hpd2

Concentration Formula: $\text{Amt} * \text{DF} * ((\text{Vt}/\text{Ws}) / ((100 - \text{M}) / 100)) * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	5.00000	Volume of final extract (mL)
Ws	5.00000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)
6 Methylene Chloride	84	6.778	6.716	(0.667)	5541	0.17045	0.17 (aM)
\$ 16 1,2-Dichloroethane-d4 (SUR)	65	9.703	9.670	(0.955)	1196015	41.9116	42
* 19 Fluorobenzene	96	10.161	10.128	(1.000)	4785855	50.0000	
\$ 37 Toluene-d8 (SUR)	98	12.082	12.064	(0.877)	3843322	50.6949	51
* 32 Chlorobenzene-d5	117	13.781	13.748	(1.000)	3910769	50.0000	
\$ 41 Bromofluorobenzene (SUR)	174	15.051	15.033	(0.924)	2558015	51.1662	51
* 91 1,4-Dichlorobenzene-d4	152	16.292	16.289	(1.000)	2269013	50.0000	

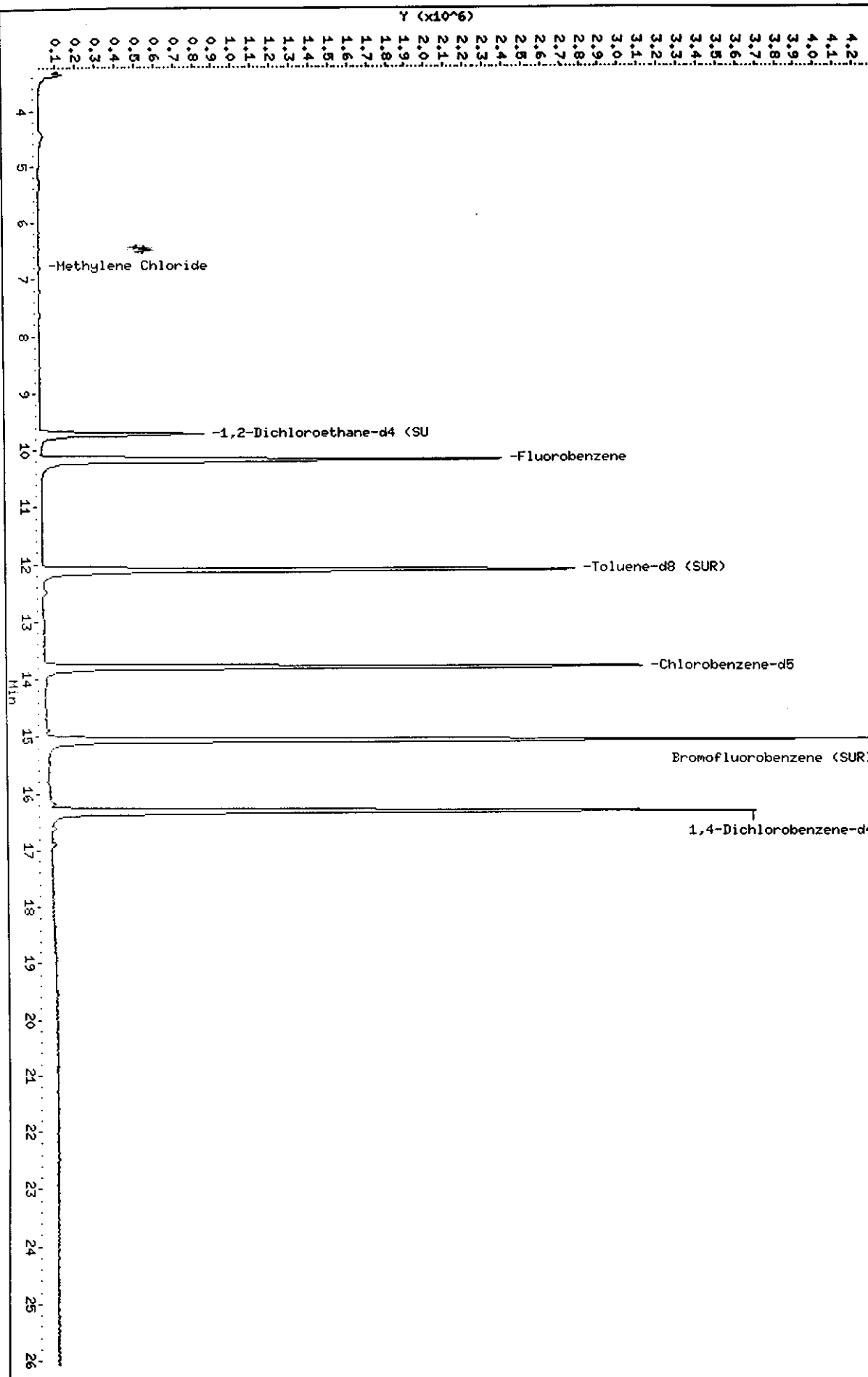
QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- M - Compound response manually integrated.

Data File: /chem/VOAHS1.i/8260L0M.SP/10-20-00/30oct00a.b/a10482.d
 Date : 30-OCT-2000 23:03
 Client ID: AV304A
 Sample Info: AV304A
 Column phase: DB624

Instrument: VOAHS1.i
 Operator: VOAHS 8
 Column diameter: 0.53

/chem/VOAHS1.i/8260L0M.SP/10-20-00/30oct00a.b/a10482.d



Data File: /chem/VOAMS1.1/8260LOW_SP/10-20-00/30oct00a,b/a10482.d

Date : 30-OCT-2000 23:03

Client ID: AV304A

Sample Info: AV304A

Instrument: VOAMS1.i

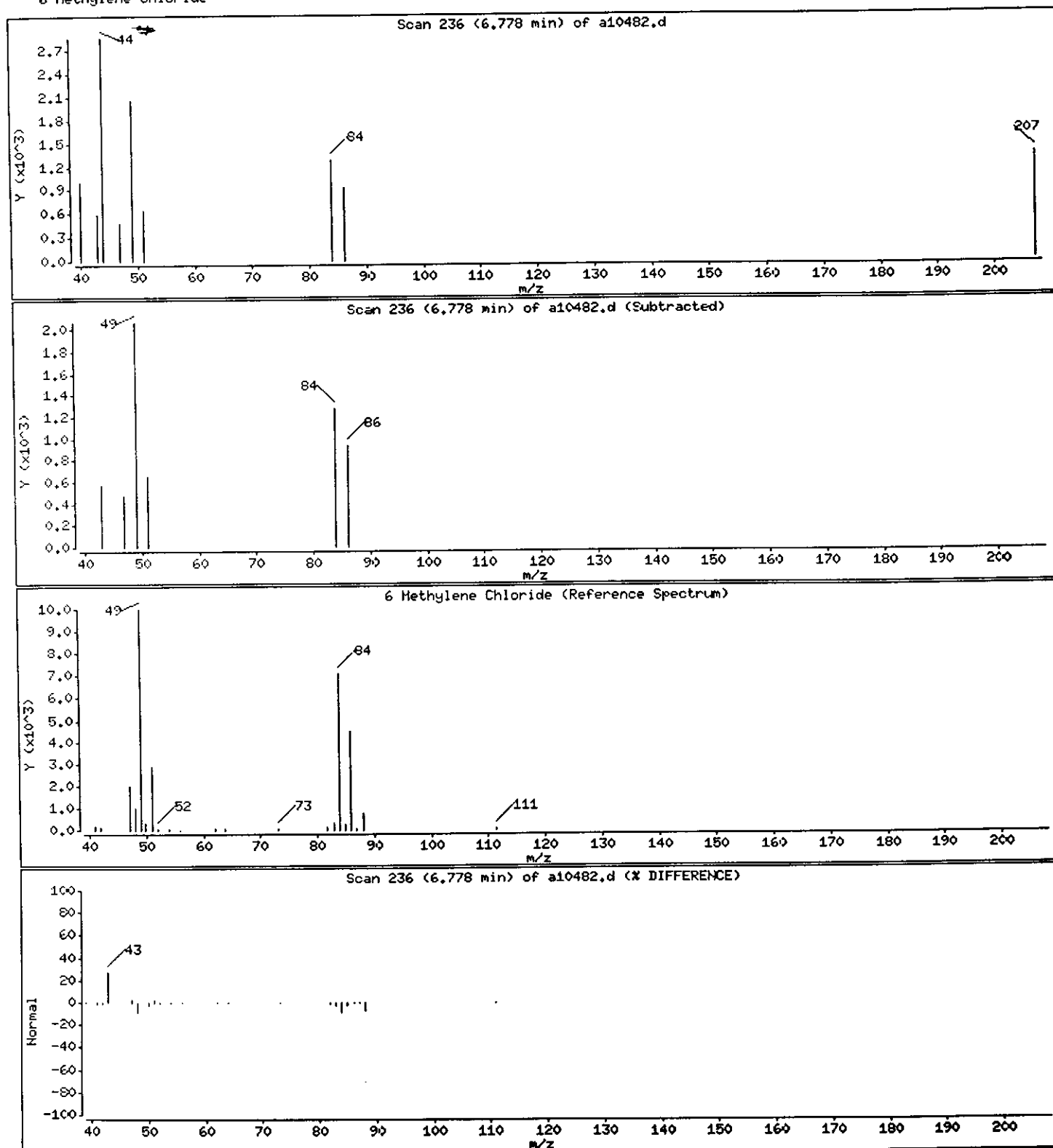
Operator: VOAMS 8

Column diameter: 0.53

Column phase: DB624

Concentration: 0.17 ug/Kg

6 Methylene Chloride



VOLATILE METHOD BLANK SUMMARY

LAB SAMPLE NO.

AV305

Matrix: SOIL

Date Analyzed: 10/31/00

Level: LOW

Time Analyzed: 1206

Lab File ID: A10503

Heated Purge (Y/N) Y

Instrument ID: VOAMS1

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

	CLIENT ID.	LAB SAMPLE NO	LAB FILE ID	TIME ANALYZED
	=====	=====	=====	=====
01	RC-1_2ND_FLRR1	237825R1	A10508	1442
02	RC-2_3RD_FLR	237826	A10510	1541
03	RC-3_3RD_FLR	237827	A10511	1610
04	RC-4_4TH_FLR	237828	A10512	1640
05	ES-1_ELSHAFT_4TH	237829	A10513	1710
06	RC-1_2ND_FLR	237825	A10515	1814
07	RC-2_3RD_FLRR1	237826R1	A10516	1843
08	RC-3_3RD_FLRR1	237827R1	A10517	1913
09	RC-4_4TH_FLRR1	237828R1	A10518	1942
10	ES-1_ELSHAFT_4TH	237829R1	A10519	2012
11				
12				
13				
14				
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COMMENTS:

Client ID: AV305
Site:

Lab Sample No: AV305
Lab Job No: F104

Date Sampled: _____
Date Received: _____
Date Analyzed: 10/31/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10503.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.0 g
Purge Volume: 5.0 ml
% Moisture: 0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	0.5J	3.0
Acetone	ND	5.0
Carbon Disulfide	ND	5.0
Trichlorofluoromethane	ND	5.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	2.0
2-Butanone	ND	5.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	2.0
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	ND	1.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	3.0
Benzene	ND	1.0
trans-1,3-Dichloropropene	ND	5.0
2-Chloroethyl Vinyl Ether	ND	5.0
Bromoform	ND	4.0
4-Methyl-2-Pentanone	ND	5.0
2-Hexanone	ND	5.0
Tetrachloroethene	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	4.0

Client ID: AV305
Site:

Lab Sample No: AV305
Lab Job No: F104

Date Sampled: _____
Date Received: _____
Date Analyzed: 10/31/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10503.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.0 g
Purge Volume: 5.0 ml
% Moisture: 0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

<u>Parameter</u>	<u>Analytical Results</u>	
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/kg</u>
Styrene	ND	5.0
Xylene (Total)	ND	5.0
Ethyl Ether	ND	5.0
Acrolein	ND	100
Freon TF	ND	5.0
Isopropanol	ND	1000
Acetonitrile	ND	100
TBA	ND	100
Acrylonitrile	ND	50
MTBE	ND	5.0
Hexane	ND	5.0
DIPE	ND	5.0
Ethyl Acetate	ND	10
Vinyl Acetate	ND	5.0
Tetrahydrofuran	ND	5.0
Cyclohexane	ND	5.0
Isobutanol	ND	500
Isopropyl Acetate	ND	10
n-Heptane	ND	5.0
n-Butanol	ND	500
Propyl Acetate	ND	10
Butyl Acetate	ND	10
1,2-Dibromoethane	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
Naphthalene	ND	5.0
Methylnaphthalene (total)	ND	5.0
Dimethylnaphthalene (total)	ND	5.0
Dichlorodifluoromethane	ND	5.0
1,1-Dichloropropene	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
1,4-Dioxane	ND	1000

Client ID: AV305
Site:

Lab Sample No: AV305
Lab Job No: F104

Date Sampled: _____
Date Received: _____
Date Analyzed: 10/31/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10503.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.0 g
Purge Volume: 5.0 ml
% Moisture: 0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u> <u>Units: ug/kg</u>
Methyl Acrylate	ND		5.0
1,1,1,2-Tetrachloroethane	ND		5.0
1,2,3-Trichlorobenzene	ND		5.0
1,2,3-Trichloropropane	ND		5.0
1,2,4-Trimethylbenzene	ND		5.0
1,2-Dibromo-3-chloropropane	ND		5.0
1,3,5-Trimethylbenzene	ND		5.0
1,3-Dichloropropane	ND		5.0
2,2-Dichloropropane	ND		5.0
2-Chlorotoluene	ND		5.0
4-Chlorotoluene	ND		5.0
Bromobenzene	ND		5.0
Bromochloromethane	ND		5.0
Dibromomethane	ND		5.0
Isopropylbenzene	ND		5.0
n-Butylbenzene	ND		5.0
n-Propylbenzene	ND		5.0
p-Isopropyltoluene	ND		5.0
sec-Butylbenzene	ND		5.0
tert-Butylbenzene	ND		5.0
Allyl chloride	ND		5.0
Benzyl chloride	ND		5.0
Epichlorohydrin	ND	100	
Isoprene	ND		5.0
Methyl methacrylate	ND		5.0
n-Pentane	ND		5.0
Allyl alcohol	ND	1000	
Cyclohexene	ND		5.0
Ethyl methacrylate	ND		5.0
Methyl acetate	ND		5.0
Methylcyclohexane	ND		5.0
Ethanol	ND	500	
p-Ethyltoluene	ND		5.0
1,4-Diethylbenzene	ND		5.0

Client ID: AV305
Site:

Lab Sample No: AV305
Lab Job No: F104

Date Sampled: _____
Date Received: _____
Date Analyzed: 10/31/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10503.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.0 g
Purge Volume: 5.0 ml
% Moisture: 0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

<u>Parameter</u>	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
1,2,4,5-Tetramethylbenzene	ND	5.0

Client ID: AV305
Site:

Lab Sample No: AV305
Lab Job No: F104

Date Sampled: _____
Date Received: _____
Date Analyzed: 10/31/00
GC Column: DB624
Instrument ID: VOAMS1.i
Lab File ID: a10503.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.0 g
Purge Volume: 5.0 ml
% Moisture: 0.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
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22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

Data File: /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10503.d
 Report Date: 06-Nov-2000 16:29

STL Envirotech

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/a10503.d
 Lab Smp Id: AV305 Client Smp ID: AV305
 Inj Date : 31-OCT-2000 12:06
 Operator : VOAMS 8 Inst ID: VOAMS1.i
 Smp Info : AV305
 Misc Info :
 Comment :
 Method : /chem/VOAMS1.i/8260LOW_SP/10-20-00/31oct00.b/8260L_00.m
 Meth Date : 06-Nov-2000 15:01 maryb Quant Type: ISTD
 Cal Date : 20-OCT-2000 18:54 Cal File: a10343.d
 Als bottle: 4 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	5.00000	Volume of final extract (mL)
Ws	5.00000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ug/L)	(ug/Kg)
6 Methylene Chloride	84	6.719	6.701	(0.663)	12408	0.45579	0.46 (aM)	
\$ 16 1,2-Dichloroethane-d4 (SUR)	65	9.674	9.655	(0.955)	1055879	44.1837	44	
* 19 Fluorobenzene	96	10.132	10.113	(1.000)	4007833	50.0000		
\$ 37 Toluene-d8 (SUR)	98	12.067	12.049	(0.877)	2993991	46.2219	46	
* 32 Chlorobenzene-d5	117	13.766	13.748	(1.000)	3341356	50.0000		
\$ 41 Bromofluorobenzene (SUR)	174	15.051	15.033	(0.923)	2116730	49.2260	49	
* 91 1,4-Dichlorobenzene-d4	152	16.307	16.274	(1.000)	1951590	50.0000		

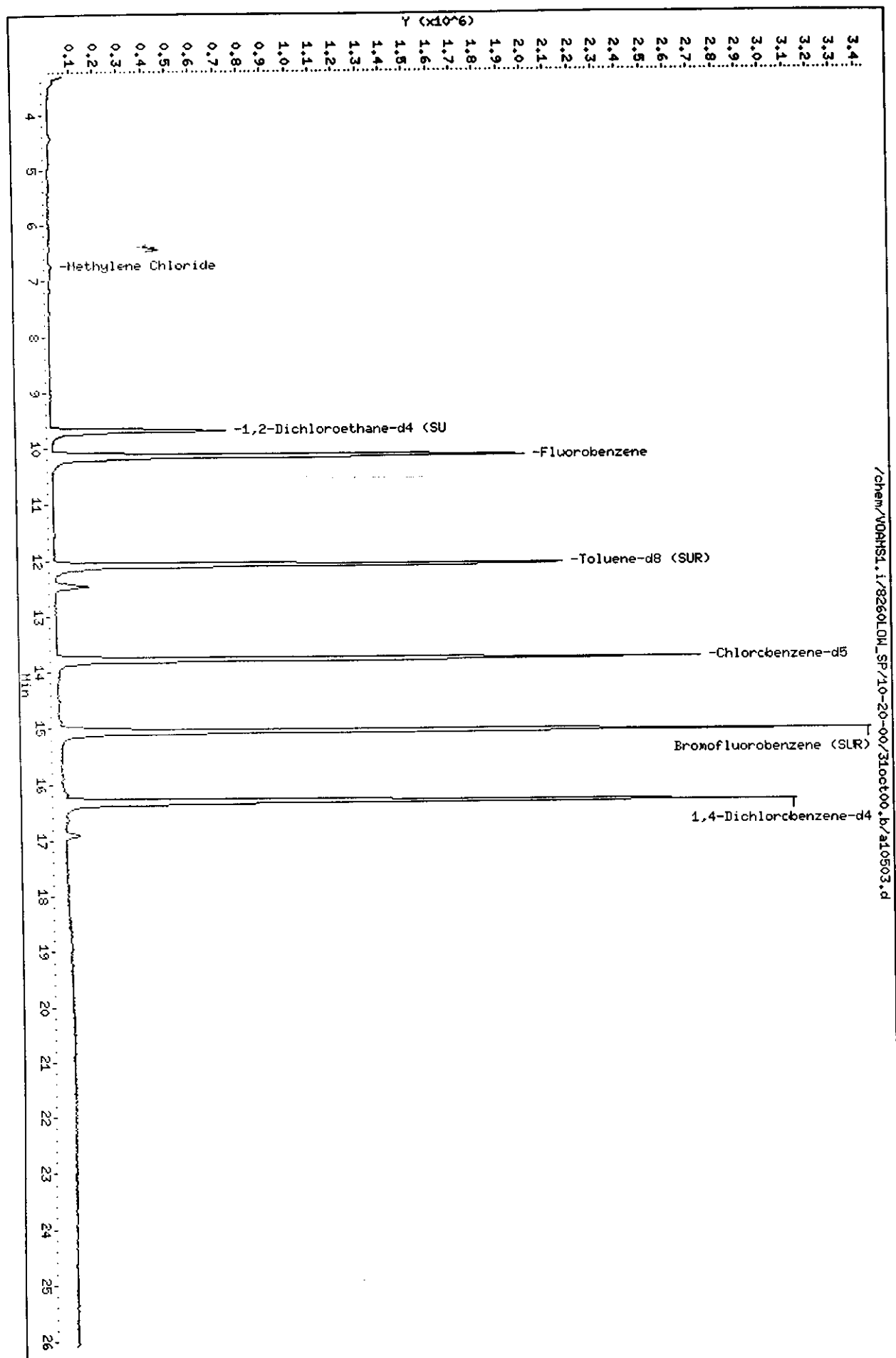
QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- M - Compound response manually integrated.

Data File: /chem/VOAHSL1/8260LDM_SF/10-20-00/31oct00.b/a10503.d
Date: 31-Oct-2000 12:06
Client ID: AV305
Sample Info: AV305

Column phase: DB624

Instrument: VOAHSL1.i
Operator: VOAHSL 8
Column diameter: 0.53



Data File: /chem/VOAMS1.i/8260LOW_SP/19-20-00/31oct00.b/a10503.d

Date : 31-OCT-2000 12:06

Client ID: AV305

Sample Info: AV305

Instrument: VOAMS1.i

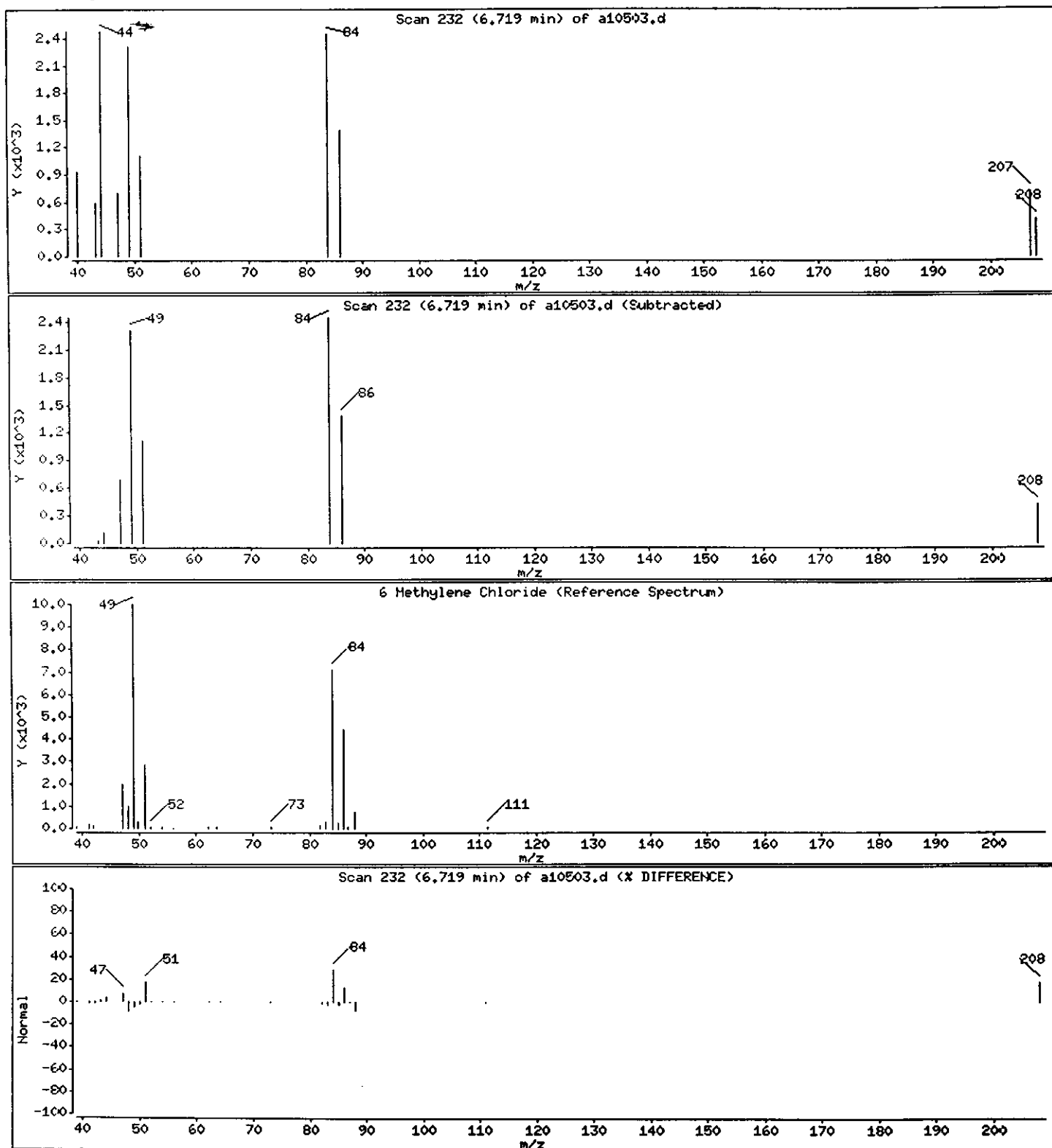
Operator: VOAMS 8

Column phase: DB624

Column diameter: 0.53

6 Methylene Chloride

Concentration: 0.46 ug/Kg



VOLATILE METHOD BLANK SUMMARY

LAB SAMPLE NO.

VV304A

Matrix: WATER

Date Analyzed: 10/30/00

Level: LOW

Time Analyzed: 1607

Lab File ID: V22780

Heated Purge (Y/N) N

Instrument ID: VOAMS7

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

	CLIENT ID.	LAB SAMPLE NO	LAB FILE ID	TIME ANALYZED
	=====	=====	=====	=====
01	MW-1	237821	V22790	2159
02	PZ-2	237822	V22791	2226
03	TRIP BLANK-1	237823	V22792	2253
04	FIELD BLANK-1025	237824	V22793	2319
05	TRIP BLANK-2	237830	V22794	2347
06	FIELD BLANK-1026	237831	V22795	0013
07				
08				
09				
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29				
30				

COMMENTS:

Client ID: VV304A
Site:

Lab Sample No: VV304A
Lab Job No: F104

Date Sampled: _____
Date Received: _____
Date Analyzed: 10/30/00
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v22780.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 624

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u> <u>Limit</u> <u>Units: ug/l</u>
Chloromethane	ND	0.5
Bromomethane	ND	0.3
Vinyl Chloride	ND	0.6
Chloroethane	ND	0.4
Methylene Chloride	ND	0.8
Acetone	ND	1.3
Carbon Disulfide	ND	0.7
Trichlorofluoromethane	ND	0.3
1,1-Dichloroethene	ND	0.4
1,1-Dichloroethane	ND	0.4
trans-1,2-Dichloroethene	ND	0.4
cis-1,2-Dichloroethene	ND	0.4
Chloroform	ND	0.2
1,2-Dichloroethane	ND	0.2
2-Butanone	ND	1.1
1,1,1-Trichloroethane	ND	0.3
Carbon Tetrachloride	ND	0.4
Bromodichloromethane	ND	0.2
1,2-Dichloropropane	ND	0.2
cis-1,3-Dichloropropene	ND	0.1
Trichloroethene	ND	0.4
Dibromochloromethane	ND	0.2
1,1,2-Trichloroethane	ND	0.3
Benzene	ND	0.3
trans-1,3-Dichloropropene	ND	0.3
2-Chloroethyl Vinyl Ether	ND	0.5
Bromoform	ND	0.1
4-Methyl-2-Pentanone	ND	0.6
2-Hexanone	ND	0.6
Tetrachloroethene	ND	0.3
1,1,2,2-Tetrachloroethane	ND	0.1
Toluene	ND	0.3
Chlorobenzene	ND	0.2
Ethylbenzene	ND	0.3

Client ID: VV304A
Site:

Lab Sample No: VV304A
Lab Job No: F104

Date Sampled: _____
Date Received: _____
Date Analyzed: 10/30/00
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v22780.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 624

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u>
		<u>Limit</u> <u>Units: ug/l</u>
Styrene	ND	0.2
Xylene (Total)	ND	0.3
Ethyl Ether	ND	0.5
Acrolein	ND	9.1
Freon TF	ND	0.3
Isopropanol	ND	500
Acetonitrile	ND	100
TBA	ND	17
Acrylonitrile	ND	11
MTBE	ND	0.2
Hexane	ND	1.0
DIPE	ND	0.2
Ethyl Acetate	ND	0.8
Vinyl Acetate	ND	5.0
Tetrahydrofuran	ND	5.0
Cyclohexane	ND	0.3
Isobutanol	ND	500
Isopropyl Acetate	ND	0.9
n-Heptane	ND	1.0
n-Butanol	ND	250
Propyl Acetate	ND	0.9
Butyl Acetate	ND	1.0
1,2-Dibromoethane	ND	0.1
1,3-Dichlorobenzene	ND	0.3
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.3
Naphthalene	ND	0.7
Methylnaphthalene (total)	ND	1.0
Dimethylnaphthalene (total)	ND	1.0
Dichlorodifluoromethane	ND	0.2
1,4-Dioxane	ND	380
n-Pentane	ND	0.6
5-Methyl-2-Hexanone	ND	5.0
Isopropylbenzene	ND	0.2

Client ID: VV304A
Site:

Lab Sample No: VV304A
Lab Job No: F104

Date Sampled: _____
Date Received: _____
Date Analyzed: 10/30/00
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v22780.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 624

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u> <u>Limit</u> <u>Units: ug/l</u>
1,2,4-Trimethylbenzene	ND	1.0
Cyclohexanone	ND	100
1,2,4-Trichlorobenzene	ND	0.7
Methyl Methacrylate	ND	0.4
Allyl Alcohol	ND	1000
Epichlorohydrin	ND	5.3
Allyl Chloride	ND	5.0
Benzyl Chloride	ND	1.0
Isoprene	ND	0.4
1,1,1,2-Tetrachloroethane	ND	0.090
Camphene (total)	ND	20
Camphor	ND	20
1,3,5-Trimethylbenzene	ND	1.0
1,2,3-Trichlorobenzene	ND	1.0
n-Butylbenzene	ND	1.0
sec-Butylbenzene	ND	1.0
tert-Butylbenzene	ND	1.0
p-Isopropyltoluene	ND	1.0
n-Propylbenzene	ND	1.0
m+p-Ethyltoluene	ND	1.0
o-Ethyltoluene	ND	1.0
Methyl Acetate	ND	0.4
Methyl cyclohexane	ND	0.4
1,2-Dibromo-3-chloropropane	ND	1.0
Cyclohexene	ND	1.0
1,2-Dichlorotrifluoroethane	ND	1.0
n-Propanol	ND	250
3-Methyl-1-Pentyn-3-ol	ND	250
Propylene Oxide	ND	50
Chlorotrifluoroethane	ND	1.0

Client ID: VV304A
Site:

Lab Sample No: VV304A
Lab Job No: F104

Date Sampled: _____
Date Received: _____
Date Analyzed: 10/30/00
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v22780.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 624

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
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22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

Data File: /chem/VOAMS7.i/624/10-24-00/30oct00.b/v22780.d
 Report Date: 31-Oct-2000 09:49

STL Envirotech

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS7.i/624/10-24-00/30oct00.b/v22780.d
 Lab Smp Id: VV304A
 Inj Date : 30-OCT-2000 16:07
 Operator : VOAMS 6
 Smp Info : VV304A
 Misc Info :
 Comment :
 Method : /chem/VOAMS7.i/624/10-24-00/30oct00.b/624 00.m
 Meth Date : 30-Oct-2000 11:07 riaz
 Cal Date : 24-OCT-2000 16:39
 Als bottle: 10
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 3.50

Inst ID: VOAMS7.i
 Quant Type: ISTD
 Cal File: v22496.d
 QC Sample: BLANK
 Compound Sublist: all.sub

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	5.00000	Sample Volume

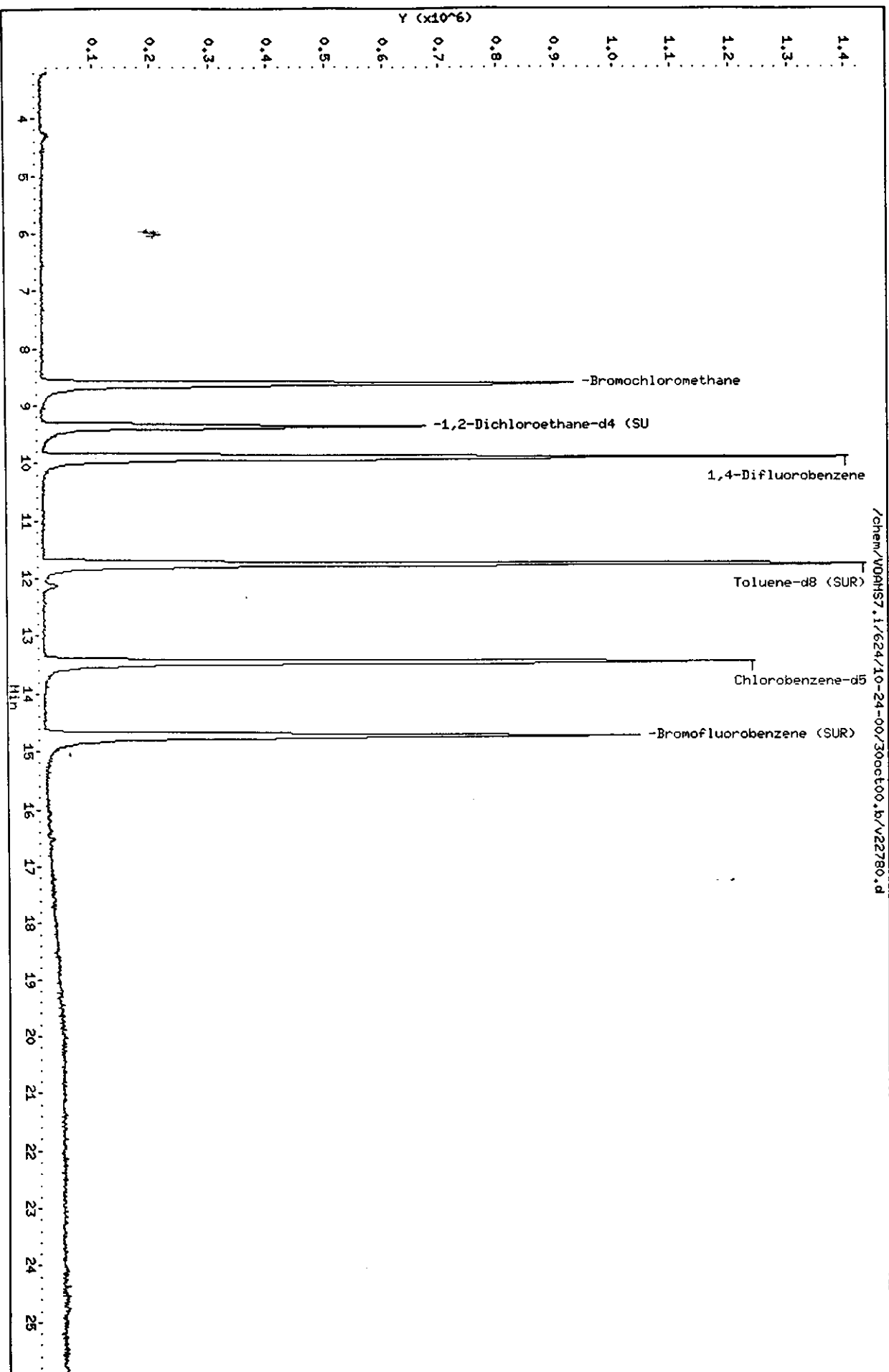
Cpnd Variable Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/L)	FINAL (ug/L)
* 2 Bromochloromethane		128	8.615	8.615	(1.000)	618003	30.0000	
\$ 16 1,2-Dichloroethane-d4 (SUR)		104	9.356	9.356	(0.947)	154443	28.3926	28
* 19 1,4-Difluorobenzene		114	9.875	9.890	(1.000)	2550600	30.0000	
\$ 37 Toluene-d8 (SUR)		98	11.729	11.743	(0.873)	2193030	32.1334	32
* 32 Chlorobenzene-d5		117	13.434	13.434	(1.000)	1721419	30.0000	
\$ 41 Bromofluorobenzene (SUR)		174	14.709	14.709	(1.095)	794247	27.4423	27

Data File: /chem/VOAHS7.1/624/10-24-00/30oct00.b/v22780.d
Date : 30-OCT-2000 16:07

Client ID:
Sample Info: VV304A
Purge Volume: 5.0
Column phase: DB624

Instrument: VOAHS7.1
Operator: VOAHS 6
Column diameter: 0.53



VOLATILE ORGANICS INITIAL CALIBRATION DATA
METHOD 8260B

Instrument ID: VOAMS1

Calibration Date(s): 10/20/00 10/20/00

Heated Purge: (Y/N) Y

Calibration Time(s): 1236 1854

LAB FILE ID:	RRF5: A10337	RRF20: A10335	RRF50: A10339		
	RRF100: A10342	RRF200: A10343			
COMPOUND	RRF5	RRF20	RRF50	RRF100	RRF200
=====	=====	=====	=====	=====	=====
Chloromethane	0.106	0.094	0.120	0.078	0.091
Bromomethane	0.250	0.192	0.256	0.146	0.222
Vinyl Chloride	0.154	0.123	0.174	0.103	0.133
Chloroethane	0.132	0.104	0.141	0.071	0.104
Methylene Chloride	0.486	0.326	0.303	0.284	0.300
Acetone	0.064	0.048	0.046	0.040	0.040
Carbon Disulfide	0.775	0.830	0.786	0.696	0.814
Trichlorofluoromethane	0.667	0.692	0.741	0.507	0.729
1,1-Dichloroethene	0.363	0.297	0.272	0.232	0.273
1,1-Dichloroethane	0.569	0.544	0.526	0.522	0.532
trans-1,2-Dichloroethene	0.385	0.354	0.339	0.332	0.343
cis-1,2-Dichloroethene	0.400	0.388	0.359	0.384	0.369
Chloroform	0.744	0.742	0.698	0.738	0.706
1,2-Dichloroethane	0.387	0.350	0.328	0.370	0.324
2-Butanone	0.023	0.021	0.024	0.026	0.023
1,1,1-Trichloroethane	0.701	0.680	0.633	0.671	0.648
Carbon Tetrachloride	0.719	0.680	0.643	0.673	0.650
Bromodichloromethane	0.730	0.726	0.689	0.755	0.692
1,2-Dichloropropane	0.386	0.328	0.307	0.327	0.297
cis-1,3-Dichloropropene	0.398	0.416	0.404	0.431	0.402
Trichloroethene	0.573	0.489	0.444	0.461	0.436
Dibromochloromethane	0.737	0.812	0.804	0.927	0.814
1,1,2-Trichloroethane	0.337	0.322	0.316	0.355	0.303
Benzene	1.005	0.835	0.758	0.798	0.730
trans-1,3-Dichloropropene	0.579	0.593	0.572	0.648	0.578
2-Chloroethyl Vinyl Ether	0.077	0.101	0.090	0.086	0.090
Bromoform	0.502	0.561	0.578	0.700	0.572
4-Methyl-2-Pentanone	0.161	0.168	0.182	0.209	0.168
2-Hexanone	0.105	0.123	0.135	0.168	0.123
Tetrachloroethene	0.868	0.754	0.690	0.735	0.679
1,1,2,2-Tetrachloroethane	1.099	0.919	0.951	1.139	0.911
Toluene	1.232	1.187	1.106	1.168	1.088
Chlorobenzene	0.988	1.027	0.948	1.015	0.930
Ethylbenzene	0.456	0.466	0.418	0.447	0.410
Styrene	0.864	0.923	0.837	0.899	0.805
Xylene (Total)	0.540	0.565	0.510	0.529	0.487
Ethyl Ether					
Acrolein	0.014	0.013	0.008	0.017	0.018
Freon TF	0.820	0.881	0.800	0.665	0.789

VOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 8260B

Instrument ID: VOAMS1

Calibration Date(s): 10/20/00 10/20/00

Heated Purge: (Y/N) Y

Calibration Time(s): 1236 1854

LAB FILE ID:	RRF5: A10337	RRF20: A10335	RRF50: A10339		
	RRF100: A10342	RRF200: A10343			
COMPOUND	RRF5	RRF20	RRF50	RRF100	RRF200
=====	=====	=====	=====	=====	=====
Isopropanol					
Acetonitrile	0.010	0.009	0.010	0.009	0.009
TBA	0.020	0.016	0.019	0.020	0.015
Acrylonitrile	0.033	0.032	0.037	0.042	0.041
MTBE	0.611	0.592	0.608	0.639	0.603
Hexane					
DIPE	0.782	0.802	0.788	0.815	0.795
Ethyl Acetate	0.188	0.193	0.207	0.244	0.198
Vinyl Acetate	0.574	0.570	0.578	0.601	0.576
Tetrahydrofuran					
Cyclohexane	0.431	0.438	0.402	0.398	0.393
Isobutanol					
Isopropyl Acetate	0.361	0.359	0.367	0.445	0.348
n-Heptane					
n-Butanol					
Propyl Acetate	0.306	0.290	0.294	0.345	0.267
Butyl Acetate	0.389	0.391	0.402	0.491	0.363
1,2-Dibromoethane	0.611	0.610	0.607	0.698	0.585
1,3-Dichlorobenzene	1.545	1.580	1.386	1.516	1.440
1,4-Dichlorobenzene	1.774	1.780	1.666	1.751	1.596
1,2-Dichlorobenzene	1.428	1.417	1.304	1.384	1.229
Naphthalene	0.887	0.960	0.820	1.000	0.753
Methylnaphthalene (total)					
Dimethylnaphthalene (total)					
Dichlorodifluoromethane	0.224	0.256	0.234	0.213	0.223
1,1-Dichloropropene	0.548	0.519	0.479	0.495	0.465
1,2,4-Trichlorobenzene	0.819	0.855	0.759	0.794	0.691
Hexachlorobutadiene	0.734	0.760	0.667	0.660	0.614
1,4-Dioxane	0.002	0.002	0.002	0.002	0.002
Methyl Acrylate					
1,1,1,2-Tetrachloroethane	0.551	0.593	0.561	0.620	0.560
1,2,3-Trichlorobenzene	0.638	0.645	0.572	0.606	0.493
1,2,3-Trichloropropane	0.745	0.711	0.734	0.860	0.734
1,2,4-Trimethylbenzene	1.993	1.996	1.835	1.925	1.878
1,2-Dibromo-3-chloropropane	0.201	0.181	0.197	0.221	0.167
1,3,5-Trimethylbenzene	2.008	2.003	1.864	1.947	1.976
1,3-Dichloropropane	0.556	0.545	0.530	0.604	0.512
2,2-Dichloropropane	0.565	0.551	0.530	0.547	0.540
2-Chlorotoluene	1.991	2.059	1.896	2.062	2.071

VOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 8260B

Instrument ID: VOAMS1

Calibration Date(s): 10/20/00 10/20/00

Heated Purge: (Y/N) Y

Calibration Time(s): 1236 1854

LAB FILE ID: RRF5: A10337 RRF20: A10335 RRF50: A10339 RRF100: A10342 RRF200: A10343					
COMPOUND	RRF5	RRF20	RRF50	RRF100	RRF200
=====	=====	=====	=====	=====	=====
4-Chlorotoluene	2.219	2.212	2.098	2.189	2.148
Bromobenzene	1.058	1.061	1.004	1.122	1.070
Bromochloromethane	0.282	0.268	0.261	0.284	0.265
Dibromomethane	0.374	0.365	0.355	0.391	0.345
Isopropylbenzene	1.526	1.605	1.463	1.517	1.393
n-Butylbenzene	2.071	2.146	1.952	1.974	1.907
n-Propylbenzene	2.863	2.981	2.752	2.880	2.784
p-Isopropyltoluene	2.401	2.423	2.182	2.259	2.231
sec-Butylbenzene	2.880	2.942	2.729	2.804	2.768
tert-Butylbenzene	2.211	2.232	2.074	2.153	2.167
Allyl chloride					
Benzyl chloride	1.018	1.070	1.116	1.292	1.021
Epichlorohydrin					
Isoprene	0.284	0.289	0.280	0.213	0.282
Methyl methacrylate	0.254	0.253	0.255	0.279	0.244
n-Pentane	0.057	0.050	0.052	0.030	0.051
Allyl alcohol					
Cyclohexene					
Ethyl methacrylate					
Methyl acetate	0.139	0.124	0.126	0.132	0.126
Methylcyclohexane	0.492	0.516	0.466	0.460	0.452
Ethanol					
p-Ethyltoluene					
1,4-Diethylbenzene					
1,2,4,5-Tetramethylbenzene					
=====	=====	=====	=====	=====	=====
1,2-Dichloroethane-d4 (SUR)	0.291	0.305	0.293	0.320	0.282
Toluene-d8 (SUR)	0.974	1.009	0.953	0.996	0.914
Bromofluorobenzene (SUR)	1.098	1.108	1.047	1.145	1.111

VOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 8260B

Instrument ID: VOAMS1

Calibration Date(s): 10/20/00 10/20/00

Heated Purge: (Y/N) Y

Calibration Time(s): 1236 1854

COMPOUND	CURVE	COEFFICIENT A1	%RSD OR R^2
=====	=====	=====	=====
Chloromethane	AVRG	0.09800500	16.2**
Bromomethane	AVRG	0.21333612	21.2*
Vinyl Chloride	AVRG	0.13759372	20.1*
Chloroethane	AVRG	0.11025948	25.0*
Methylene Chloride	AVRG	0.33962660	24.5*
Acetone	AVRG	0.04744108	20.6*
Carbon Disulfide	AVRG	0.78030031	6.7*
Trichlorofluoromethane	AVRG	0.66719455	14.1*
1,1-Dichloroethene	AVRG	0.28748095	16.8*
1,1-Dichloroethane	AVRG	0.53877386	3.5**
trans-1,2-Dichloroethene	AVRG	0.35081074	5.9*
cis-1,2-Dichloroethene	AVRG	0.37989344	4.3*
Chloroform	AVRG	0.72551040	3.0*
1,2-Dichloroethane	AVRG	0.35164634	7.6*
2-Butanone	AVRG	0.02331105	8.3*
1,1,1-Trichloroethane	AVRG	0.66652558	4.0*
Carbon Tetrachloride	AVRG	0.67285062	4.4*
Bromodichloromethane	AVRG	0.71864592	3.9*
1,2-Dichloropropane	AVRG	0.32910372	10.5*
cis-1,3-Dichloropropene	AVRG	0.41019779	3.2*
Trichloroethene	AVRG	0.48050747	11.6*
Dibromochloromethane	AVRG	0.81864612	8.3*
1,1,2-Trichloroethane	AVRG	0.32668495	6.1*
Benzene	AVRG	0.82544473	13.1*
trans-1,3-Dichloropropene	AVRG	0.59380425	5.2*
2-Chloroethyl Vinyl Ether	AVRG	0.08877696	9.7*
Bromoform	AVRG	0.58236639	12.4**
4-Methyl-2-Pentanone	AVRG	0.17789379	10.8*
2-Hexanone	AVRG	0.13079679	17.7*
Tetrachloroethene	AVRG	0.74515783	10.1*
1,1,2,2-Tetrachloroethane	AVRG	1.00374078	10.7**
Toluene	AVRG	1.15614648	5.1*
Chlorobenzene	AVRG	0.98153383	4.3**
Ethylbenzene	AVRG	0.43933437	5.5*
Styrene	AVRG	0.86550460	5.4*
Xylene (Total)	AVRG	0.52644868	5.6*
Ethyl Ether	AVRG		
Acrolein	AVRG	0.01392140	27.8*
Freon TF	AVRG	0.79093924	10.0*

* Compound with required maximum % RSD value.

** Compound with required minimum RRF value.

VOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 8260B

Instrument ID: VOAMS1

Calibration Date(s): 10/20/00 10/20/00

Heated Purge: (Y/N) Y

Calibration Time(s): 1236 1854

COMPOUND	CURVE	COEFFICIENT A1	%RSD OR R^2
Isopropanol	AVRG		
Acetonitrile	AVRG	0.00951493	2.4*
TBA	AVRG	0.01802728	12.7*
Acrylonitrile	AVRG	0.03693618	12.6*
MTBE	AVRG	0.61059437	2.8*
Hexane	AVRG		
DIPE	AVRG	0.79645241	1.6*
Ethyl Acetate	AVRG	0.20612022	10.8*
Vinyl Acetate	AVRG	0.58001583	2.1*
Tetrahydrofuran	AVRG		
Cyclohexane	AVRG	0.41264091	5.0*
Isobutanol	AVRG		
Isopropyl Acetate	AVRG	0.37606116	10.4*
n-Heptane	AVRG		
n-Butanol	AVRG		
Propyl Acetate	AVRG	0.30063930	9.5*
Butyl Acetate	AVRG	0.40735163	12.0*
1,2-Dibromoethane	AVRG	0.62206491	7.0*
1,3-Dichlorobenzene	AVRG	1.49339847	5.3*
1,4-Dichlorobenzene	AVRG	1.71363509	4.7*
1,2-Dichlorobenzene	AVRG	1.35265787	6.2*
Naphthalene	AVRG	0.88413859	11.4*
Methylnaphthalene (total)	AVRG		
Dimethylnaphthalene (total)	AVRG		
Dichlorodifluoromethane	AVRG	0.22995755	7.1*
1,1-Dichloropropene	AVRG	0.50113374	6.5*
1,2,4-Trichlorobenzene	AVRG	0.78360442	7.9*
Hexachlorobutadiene	AVRG	0.68685508	8.6*
1,4-Dioxane	AVRG	0.00207863	12.0*
Methyl Acrylate	AVRG		
1,1,1,2-Tetrachloroethane	AVRG	0.57703544	5.0*
1,2,3-Trichlorobenzene	AVRG	0.59070440	10.5*
1,2,3-Trichloropropane	AVRG	0.75684010	7.8*
1,2,4-Trimethylbenzene	AVRG	1.92521946	3.7*
1,2-Dibromo-3-chloropropane	AVRG	0.19359011	10.7*
1,3,5-Trimethylbenzene	AVRG	1.95961908	3.0*
1,3-Dichloropropane	AVRG	0.54946601	6.3*
2,2-Dichloropropane	AVRG	0.54656568	2.4*
2-Chlorotoluene	AVRG	2.01604963	3.7*

* Compound with required maximum % RSD value.

** Compound with required minimum RRF value.

VOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 8260B

Instrument ID: VOAMS1

Calibration Date(s): 10/20/00 10/20/00

Heated Purge: (Y/N) Y

Calibration Time(s): 1236 1854

COMPOUND	CURVE	COEFFICIENT A1	%RSD OR R^2
=====	=====	=====	=====
4-Chlorotoluene	AVRG	2.17321631	2.3*
Bromobenzene	AVRG	1.06296553	3.9*
Bromochloromethane	AVRG	0.27169399	3.8*
Dibromomethane	AVRG	0.36616314	4.8*
Isopropylbenzene	AVRG	1.50096611	5.2*
n-Butylbenzene	AVRG	2.00999232	4.8*
n-Propylbenzene	AVRG	2.85217797	3.1*
p-Isopropyltoluene	AVRG	2.29911931	4.6*
sec-Butylbenzene	AVRG	2.82477092	3.0*
tert-Butylbenzene	AVRG	2.16745861	2.8*
Allyl chloride	AVRG		
Benzyl chloride	AVRG	1.10352478	10.2*
Epichlorohydrin	AVRG		
Isoprene	AVRG	0.26971302	11.7*
Methyl methacrylate	AVRG	0.25707027	5.2*
n-Pentane	AVRG	0.04824737	21.3*
Allyl alcohol	AVRG		
Cyclohexene	AVRG		
Ethyl methacrylate	AVRG		
Methyl acetate	AVRG	0.12927888	4.8*
Methylcyclohexane	AVRG	0.47729898	5.5*
Ethanol	AVRG		
p-Ethyltoluene	AVRG		
1,4-Diethylbenzene	AVRG		
1,2,4,5-Tetramethylbenzene	AVRG		
=====	=====	=====	=====
1,2-Dichloroethane-d4 (SUR)	AVRG	0.29813487	4.9*
Toluene-d8 (SUR)	AVRG	0.96928192	3.9*
Bromofluorobenzene (SUR)	AVRG	1.10167273	3.2*

* Compound with required maximum % RSD value.

** Compound with required minimum RRF value.

VOLATILE ORGANICS CONTINUING CALIBRATION CHECK
METHOD 8260B

Instrument ID: VOAMS1 Calibration Date: 10/29/00 Time: 1152
Lab File ID: A10437 Init. Calib. Date(s): 10/20/00 10/20/00
Heated Purge: (Y/N) Y Init. Calib. Times: 1236 1854

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Chloromethane	0.098	0.103	0.01	-5.1	50.0
Bromomethane	0.213	0.203		4.7	50.0
Vinyl Chloride	0.137	0.152		-10.9	20.0
Chloroethane	0.110	0.114		-3.6	50.0
Methylene Chloride	0.340	0.305		10.3	50.0
Acetone	0.048	0.042		12.5	50.0
Carbon Disulfide	0.780	0.750		3.8	50.0
Trichlorofluoromethane	0.667	0.662		0.7	50.0
1,1-Dichloroethene	0.287	0.238		17.1	20.0
1,1-Dichloroethane	0.539	0.497	0.1	7.8	50.0
trans-1,2-Dichloroethene	0.351	0.330		6.0	50.0
cis-1,2-Dichloroethene	0.380	0.350		7.9	50.0
Chloroform	0.726	0.673		7.3	20.0
1,2-Dichloroethane	0.352	0.311		11.6	50.0
2-Butanone	0.023	0.020		13.0	50.0
1,1,1-Trichloroethane	0.667	0.622		6.7	50.0
Carbon Tetrachloride	0.673	0.626		7.0	50.0
Bromodichloromethane	0.718	0.685		4.6	50.0
1,2-Dichloropropane	0.329	0.300		8.8	20.0
cis-1,3-Dichloropropene	0.410	0.382		6.8	50.0
Trichloroethene	0.481	0.437		9.1	50.0
Dibromochloromethane	0.819	0.819		0.0	50.0
1,1,2-Trichloroethane	0.327	0.308		5.8	50.0
Benzene	0.825	0.744		9.8	50.0
trans-1,3-Dichloropropene	0.594	0.598		-0.7	50.0
2-Chloroethyl Vinyl Ether	0.089	0.079		11.2	50.0
Bromoform	0.583	0.559	0.1	4.1	50.0
4-Methyl-2-Pentanone	0.178	0.149		16.3	50.0
2-Hexanone	0.131	0.118		9.9	50.0
Tetrachloroethene	0.745	0.708		5.0	50.0
1,1,2,2-Tetrachloroethane	1.004	0.904	0.3	10.0	50.0
Toluene	1.156	1.144		1.0	20.0
Chlorobenzene	0.982	0.943	0.3	4.0	50.0
Ethylbenzene	0.439	0.422		3.9	20.0
Styrene	0.866	0.825		4.7	50.0
Xylene (Total)	0.526	0.505		4.0	50.0
Ethyl Ether					50.0

VOLATILE ORGANICS CONTINUING CALIBRATION CHECK(cont'd)
METHOD 8260B

Instrument ID: VOAMS1 Calibration Date: 10/29/00 Time: 1152
Lab File ID: A10437 Init. Calib. Date(s): 10/20/00 10/20/00
Heated Purge: (Y/N) Y Init. Calib. Times: 1236 1854

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
Acrolein	0.014	0.012		14.3	50.0
Freon TF	0.791	0.695		12.1	50.0
Isopropanol					50.0
Acetonitrile	0.009	0.009		0.0	50.0
TBA	0.018	0.015		16.7	50.0
Acrylonitrile	0.037	0.036		2.7	50.0
MTBE	0.611	0.549		10.1	50.0
Hexane					50.0
DIPE	0.796	0.727		8.7	50.0
Ethyl Acetate	0.206	0.174		15.5	50.0
Vinyl Acetate	0.580	0.468		19.3	50.0
Tetrahydrofuran					50.0
Cyclohexane	0.412	0.393		4.6	50.0
Isobutanol					50.0
Isopropyl Acetate	0.376	0.323		14.1	50.0
n-Heptane					50.0
n-Butanol					50.0
Propyl Acetate	0.300	0.249		17.0	50.0
Butyl Acetate	0.407	0.358		12.0	50.0
1,2-Dibromoethane	0.622	0.586		5.8	50.0
1,3-Dichlorobenzene	1.493	1.432		4.1	50.0
1,4-Dichlorobenzene	1.713	1.625		5.1	50.0
1,2-Dichlorobenzene	1.352	1.277		5.5	50.0
Naphthalene	0.884	0.646		26.9	50.0
Methylnaphthalene (total)					50.0
Dimethylnaphthalene (total)					50.0
Dichlorodifluoromethane	0.230	0.228		0.9	50.0
1,1-Dichloropropene	0.501	0.471		6.0	50.0
1,2,4-Trichlorobenzene	0.784	0.689		12.1	50.0
Hexachlorobutadiene	0.687	0.667		2.9	50.0
1,4-Dioxane	0.002	0.002		0.0	50.0
Methyl Acrylate					50.0
1,1,1,2-Tetrachloroethane	0.577	0.571		1.0	50.0
1,2,3-Trichlorobenzene	0.591	0.478		19.1	50.0
1,2,3-Trichloropropane	0.757	0.683		9.8	50.0
1,2,4-Trimethylbenzene	1.925	1.812		5.9	50.0
1,2-Dibromo-3-chloropropane	0.193	0.170		11.9	50.0

VOLATILE ORGANICS CONTINUING CALIBRATION CHECK(cont'd)
METHOD 8260B

Instrument ID: VOAMS1 Calibration Date: 10/29/00 Time: 1152
Lab File ID: A10437 Init. Calib. Date(s): 10/20/00 10/20/00
Heated Purge: (Y/N) Y Init. Calib. Times: 1236 1854

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
1,3,5-Trimethylbenzene	1.960	1.867		4.7	50.0
1,3-Dichloropropane	0.549	0.530		3.5	50.0
2,2-Dichloropropane	0.547	0.501		8.4	50.0
2-Chlorotoluene	2.016	1.973		2.1	50.0
4-Chlorotoluene	2.173	2.034		6.4	50.0
Bromobenzene	1.063	1.019		4.1	50.0
Bromochloromethane	0.272	0.246		9.6	50.0
Dibromomethane	0.366	0.334		8.7	50.0
Isopropylbenzene	1.501	1.432		4.6	50.0
n-Butylbenzene	2.010	1.912		4.9	50.0
n-Propylbenzene	2.852	2.775		2.7	50.0
p-Isopropyltoluene	2.299	2.189		4.8	50.0
sec-Butylbenzene	2.825	2.761		2.3	50.0
tert-Butylbenzene	2.167	2.088		3.6	50.0
Allyl chloride					50.0
Benzyl chloride	1.103	0.999		9.4	50.0
Epichlorohydrin					50.0
Isoprene	0.270	0.226		16.3	50.0
Methyl methacrylate	0.257	0.235		8.6	50.0
n-Pentane	0.048	0.043		10.4	50.0
Allyl alcohol					50.0
Cyclohexene					50.0
Ethyl methacrylate					50.0
Methyl acetate	0.129	0.113		12.4	50.0
Methylcyclohexane	0.477	0.457		4.2	50.0
Ethanol					50.0
p-Ethyltoluene		1.812	0.01		50.0
1,4-Diethylbenzene			0.01		50.0
1,2,4,5-Tetramethylbenzene			0.01		50.0
=====	=====	=====	=====	=====	=====
1,2-Dichloroethane-d4 (SUR)	0.298	0.254		14.8	50.0
Toluene-d8 (SUR)	0.969	0.906		6.5	50.0
Bromofluorobenzene (SUR)	1.102	1.070		2.9	50.0

VOLATILE ORGANICS CONTINUING CALIBRATION CHECK
METHOD 8260B

Instrument ID: VOAMS1 Calibration Date: 10/30/00 Time: 0811
Lab File ID: A10458 Init. Calib. Date(s): 10/20/00 10/20/00
Heated Purge: (Y/N) Y Init. Calib. Times: 1236 1854

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
Chloromethane	0.098	0.093	0.01	5.1	50.0
Bromomethane	0.213	0.179		16.0	50.0
Vinyl Chloride	0.137	0.128		6.6	20.0
Chloroethane	0.110	0.103		6.4	50.0
Methylene Chloride	0.340	0.305		10.3	50.0
Acetone	0.048	0.035		27.1	50.0
Carbon Disulfide	0.780	0.707		9.4	50.0
Trichlorofluoromethane	0.667	0.612		8.2	50.0
1,1-Dichloroethene	0.287	0.238		17.1	20.0
1,1-Dichloroethane	0.539	0.518	0.1	3.9	50.0
trans-1,2-Dichloroethene	0.351	0.331		5.7	50.0
cis-1,2-Dichloroethene	0.380	0.359		5.5	50.0
Chloroform	0.726	0.694		4.4	20.0
1,2-Dichloroethane	0.352	0.327		7.1	50.0
2-Butanone	0.023	0.022		4.3	50.0
1,1,1-Trichloroethane	0.667	0.635		4.8	50.0
Carbon Tetrachloride	0.673	0.640		4.9	50.0
Bromodichloromethane	0.718	0.717		0.1	50.0
1,2-Dichloropropane	0.329	0.313		4.9	20.0
cis-1,3-Dichloropropene	0.410	0.397		3.2	50.0
Trichloroethene	0.481	0.449		6.6	50.0
Dibromochloromethane	0.819	0.870		-6.2	50.0
1,1,2-Trichloroethane	0.327	0.332		-1.5	50.0
Benzene	0.825	0.762		7.6	50.0
trans-1,3-Dichloropropene	0.594	0.627		-5.6	50.0
2-Chloroethyl Vinyl Ether	0.089	0.095		-6.7	50.0
Bromoform	0.583	0.602	0.1	-3.2	50.0
4-Methyl-2-Pentanone	0.178	0.168		5.6	50.0
2-Hexanone	0.131	0.136		-3.8	50.0
Tetrachloroethene	0.745	0.725		2.7	50.0
1,1,2,2-Tetrachloroethane	1.004	0.957	0.3	4.7	50.0
Toluene	1.156	1.168		-1.0	20.0
Chlorobenzene	0.982	0.973	0.3	0.9	50.0
Ethylbenzene	0.439	0.433		1.4	20.0
Styrene	0.866	0.876		-1.2	50.0
Xylene (Total)	0.526	0.525		0.2	50.0
Ethyl Ether		0.016			50.0

VOLATILE ORGANICS CONTINUING CALIBRATION CHECK(cont'd)
METHOD 8260B

Instrument ID: VOAMS1 Calibration Date: 10/30/00 Time: 0811
Lab File ID: A10458 Init. Calib. Date(s): 10/20/00 10/20/00
Heated Purge: (Y/N) Y Init. Calib. Times: 1236 1854

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Acrolein	0.014	0.011		21.4	50.0
Freon TF	0.791	0.697		11.9	50.0
Isopropanol					50.0
Acetonitrile	0.009	0.009		0.0	50.0
TBA	0.018	0.017		5.6	50.0
Acrylonitrile	0.037	0.036		2.7	50.0
MTBE	0.611	0.580		5.1	50.0
Hexane					50.0
DIPE	0.796	0.748		6.0	50.0
Ethyl Acetate	0.206	0.191		7.3	50.0
Vinyl Acetate	0.580	0.488		15.9	50.0
Tetrahydrofuran					50.0
Cyclohexane	0.412	0.390		5.3	50.0
Isobutanol					50.0
Isopropyl Acetate	0.376	0.355		5.6	50.0
n-Heptane					50.0
n-Butanol					50.0
Propyl Acetate	0.300	0.274		8.7	50.0
Butyl Acetate	0.407	0.401		1.5	50.0
1,2-Dibromoethane	0.622	0.630		-1.3	50.0
1,3-Dichlorobenzene	1.493	1.494		-0.1	50.0
1,4-Dichlorobenzene	1.713	1.681		1.9	50.0
1,2-Dichlorobenzene	1.352	1.357		-0.4	50.0
Naphthalene	0.884	0.839		5.1	50.0
Methylnaphthalene (total)					50.0
Dimethylnaphthalene (total)					50.0
Dichlorodifluoromethane	0.230	0.213		7.4	50.0
1,1-Dichloropropene	0.501	0.483		3.6	50.0
1,2,4-Trichlorobenzene	0.784	0.781		0.4	50.0
Hexachlorobutadiene	0.687	0.719		-4.6	50.0
1,4-Dioxane	0.002	0.002		0.0	50.0
Methyl Acrylate					50.0
1,1,1,2-Tetrachloroethane	0.577	0.584		-1.2	50.0
1,2,3-Trichlorobenzene	0.591	0.566		4.2	50.0
1,2,3-Trichloropropane	0.757	0.729		3.7	50.0
1,2,4-Trimethylbenzene	1.925	1.897		1.4	50.0
1,2-Dibromo-3-chloropropane	0.193	0.197		-2.1	50.0

VOLATILE ORGANICS CONTINUING CALIBRATION CHECK(cont'd)
METHOD 8260B

Instrument ID: VOAMS1 Calibration Date: 10/30/00 Time: 0811
Lab File ID: A10458 Init. Calib. Date(s): 10/20/00 10/20/00
Heated Purge: (Y/N) Y Init. Calib. Times: 1236 1854

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
1,3,5-Trimethylbenzene	1.960	1.933		1.4	50.0
1,3-Dichloropropane	0.549	0.566		-3.1	50.0
2,2-Dichloropropane	0.547	0.515		5.8	50.0
2-Chlorotoluene	2.016	1.951		3.2	50.0
4-Chlorotoluene	2.173	2.209		-1.6	50.0
Bromobenzene	1.063	1.033		2.8	50.0
Bromochloromethane	0.272	0.253		7.0	50.0
Dibromomethane	0.366	0.355		3.0	50.0
Isopropylbenzene	1.501	1.498		0.2	50.0
n-Butylbenzene	2.010	2.041		-1.5	50.0
n-Propylbenzene	2.852	2.855		-0.1	50.0
p-Isopropyltoluene	2.299	2.282		0.7	50.0
sec-Butylbenzene	2.825	2.832		-0.2	50.0
tert-Butylbenzene	2.167	2.122		2.1	50.0
Allyl chloride					50.0
Benzyl chloride	1.103	1.081		2.0	50.0
Epichlorohydrin					50.0
Isoprene	0.270	0.226		16.3	50.0
Methyl methacrylate	0.257	0.248		3.5	50.0
n-Pentane	0.048	0.045		6.2	50.0
Allyl alcohol					50.0
Cyclohexene					50.0
Ethyl methacrylate					50.0
Methyl acetate	0.129	0.122		5.4	50.0
Methylcyclohexane	0.477	0.456		4.4	50.0
Ethanol					50.0
p-Ethyltoluene		1.897	0.01		50.0
1,4-Diethylbenzene		0.098	0.01		50.0
1,2,4,5-Tetramethylbenzene		0.018	0.01		50.0
=====	=====	=====	=====	=====	=====
1,2-Dichloroethane-d4 (SUR)	0.298	0.280		6.0	50.0
Toluene-d8 (SUR)	0.969	0.964		0.5	50.0
Bromofluorobenzene (SUR)	1.102	1.095		0.6	50.0

VOLATILE ORGANICS CONTINUING CALIBRATION CHECK
METHOD 8260B

Instrument ID: VOAMS1 Calibration Date: 10/30/00 Time: 1958
Lab File ID: A10477 Init. Calib. Date(s): 10/20/00 10/20/00
Heated Purge: (Y/N) Y Init. Calib. Times: 1236 1854

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
Chloromethane	0.098	0.119	0.01	-21.4	50.0
Bromomethane	0.213	0.207		2.8	50.0
Vinyl Chloride	0.137	0.157		-14.6	20.0
Chloroethane	0.110	0.116		-5.4	50.0
Methylene Chloride	0.340	0.335		1.5	50.0
Acetone	0.048	0.052		-8.3	50.0
Carbon Disulfide	0.780	0.800		-2.6	50.0
Trichlorofluoromethane	0.667	0.741		-11.1	50.0
1,1-Dichloroethene	0.287	0.315		-9.8	20.0
1,1-Dichloroethane	0.539	0.533	0.1	1.1	50.0
trans-1,2-Dichloroethene	0.351	0.355		-1.1	50.0
cis-1,2-Dichloroethene	0.380	0.370		2.6	50.0
Chloroform	0.726	0.717		1.2	20.0
1,2-Dichloroethane	0.352	0.352		0.0	50.0
2-Butanone	0.023	0.026		-13.0	50.0
1,1,1-Trichloroethane	0.667	0.636		4.6	50.0
Carbon Tetrachloride	0.673	0.637		5.3	50.0
Bromodichloromethane	0.718	0.738		-2.8	50.0
1,2-Dichloropropane	0.329	0.322		2.1	20.0
cis-1,3-Dichloropropene	0.410	0.422		-2.9	50.0
Trichloroethene	0.481	0.445		7.5	50.0
Dibromochloromethane	0.819	0.914		-11.6	50.0
1,1,2-Trichloroethane	0.327	0.362		-10.7	50.0
Benzene	0.825	0.771		6.5	50.0
trans-1,3-Dichloropropene	0.594	0.620		-4.4	50.0
2-Chloroethyl Vinyl Ether	0.089	0.090		-1.1	50.0
Bromoform	0.583	0.660	0.1	-13.2	50.0
4-Methyl-2-Pentanone	0.178	0.207		-16.3	50.0
2-Hexanone	0.131	0.170		-29.8	50.0
Tetrachloroethene	0.745	0.722		3.1	50.0
1,1,2,2-Tetrachloroethane	1.004	1.099	0.3	-9.5	50.0
Toluene	1.156	1.166		-0.9	20.0
Chlorobenzene	0.982	0.990	0.3	-0.8	50.0
Ethylbenzene	0.439	0.442		-0.7	20.0
Styrene	0.866	0.860		0.7	50.0
Xylene (Total)	0.526	0.516		1.9	50.0
Ethyl Ether					50.0

VOLATILE ORGANICS CONTINUING CALIBRATION CHECK(cont'd)
METHOD 8260B

Instrument ID: VOAMS1 Calibration Date: 10/30/00 Time: 1958
Lab File ID: A10477 Init. Calib. Date(s): 10/20/00 10/20/00
Heated Purge: (Y/N) Y Init. Calib. Times: 1236 1854

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
Acrolein	0.014	0.014		0.0	50.0
Freon TF	0.791	0.922		-16.6	50.0
Isopropanol					50.0
Acetonitrile	0.009	0.012		-33.3	50.0
TBA	0.018	0.021		-16.7	50.0
Acrylonitrile	0.037	0.045		-21.6	50.0
MTBE	0.611	0.678		-11.0	50.0
Hexane					50.0
DIPE	0.796	0.784		1.5	50.0
Ethyl Acetate	0.206	0.186		9.7	50.0
Vinyl Acetate	0.580	0.477		17.8	50.0
Tetrahydrofuran					50.0
Cyclohexane	0.412	0.400		2.9	50.0
Isobutanol					50.0
Isopropyl Acetate	0.376	0.354		5.8	50.0
n-Heptane					50.0
n-Butanol					50.0
Propyl Acetate	0.300	0.268		10.7	50.0
Butyl Acetate	0.407	0.365		10.3	50.0
1,2-Dibromoethane	0.622	0.692		-11.2	50.0
1,3-Dichlorobenzene	1.493	1.516		-1.5	50.0
1,4-Dichlorobenzene	1.713	1.666		2.7	50.0
1,2-Dichlorobenzene	1.352	1.359		-0.5	50.0
Naphthalene	0.884	0.835		5.5	50.0
Methylnaphthalene (total)					50.0
Dimethylnaphthalene (total)					50.0
Dichlorodifluoromethane	0.230	0.256		-11.3	50.0
1,1-Dichloropropene	0.501	0.484		3.4	50.0
1,2,4-Trichlorobenzene	0.784	0.708		9.7	50.0
Hexachlorobutadiene	0.687	0.649		5.5	50.0
1,4-Dioxane	0.002	0.002		0.0	50.0
Methyl Acrylate					50.0
1,1,1,2-Tetrachloroethane	0.577	0.604		-4.7	50.0
1,2,3-Trichlorobenzene	0.591	0.526		11.0	50.0
1,2,3-Trichloropropane	0.757	0.825		-9.0	50.0
1,2,4-Trimethylbenzene	1.925	1.859		3.4	50.0
1,2-Dibromo-3-chloropropane	0.193	0.226		-17.1	50.0

VOLATILE ORGANICS CONTINUING CALIBRATION CHECK(cont'd)
METHOD 8260B

Instrument ID: VOAMS1 Calibration Date: 10/30/00 Time: 1958
Lab File ID: A10477 Init. Calib. Date(s): 10/20/00 10/20/00
Heated Purge: (Y/N) Y Init. Calib. Times: 1236 1854

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
1,3,5-Trimethylbenzene	1.960	1.868		4.7	50.0
1,3-Dichloropropane	0.549	0.613		-11.6	50.0
2,2-Dichloropropane	0.547	0.485		11.3	50.0
2-Chlorotoluene	2.016	2.133		-5.8	50.0
4-Chlorotoluene	2.173	2.158		0.7	50.0
Bromobenzene	1.063	1.054		0.8	50.0
Bromochloromethane	0.272	0.264		2.9	50.0
Dibromomethane	0.366	0.389		-6.3	50.0
Isopropylbenzene	1.501	1.480		1.4	50.0
n-Butylbenzene	2.010	1.937		3.6	50.0
n-Propylbenzene	2.852	2.783		2.4	50.0
p-Isopropyltoluene	2.299	2.214		3.7	50.0
sec-Butylbenzene	2.825	2.792		1.2	50.0
tert-Butylbenzene	2.167	2.126		1.9	50.0
Allyl chloride					50.0
Benzyl chloride	1.103	1.040		5.7	50.0
Epichlorohydrin					50.0
Isoprene	0.270	0.290		-7.4	50.0
Methyl methacrylate	0.257	0.267		-3.9	50.0
n-Pentane	0.048	0.050		-4.2	50.0
Allyl alcohol					50.0
Cyclohexene					50.0
Ethyl methacrylate					50.0
Methyl acetate	0.129	0.134		-3.9	50.0
Methylcyclohexane	0.477	0.474		0.6	50.0
Ethanol					50.0
p-Ethyltoluene			0.01		50.0
1,4-Diethylbenzene			0.01		50.0
1,2,4,5-Tetramethylbenzene			0.01		50.0
=====	=====	=====	=====	=====	=====
1,2-Dichloroethane-d4 (SUR)	0.298	0.295		1.0	50.0
Toluene-d8 (SUR)	0.969	0.980		-1.1	50.0
Bromofluorobenzene (SUR)	1.102	1.124		-2.0	50.0

VOLATILE ORGANICS CONTINUING CALIBRATION CHECK
METHOD 8260B

Instrument ID: VOAMS1 Calibration Date: 10/31/00 Time: 0958
Lab File ID: A10500 Init. Calib. Date(s): 10/20/00 10/20/00
Heated Purge: (Y/N) Y Init. Calib. Times: 1236 1854

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Chloromethane	0.098	0.100	0.01	-2.0	50.0
Bromomethane	0.213	0.180		15.5	50.0
Vinyl Chloride	0.137	0.138		-0.7	20.0
Chloroethane	0.110	0.092		16.4	50.0
Methylene Chloride	0.340	0.281		17.4	50.0
Acetone	0.048	0.030		37.5	50.0
Carbon Disulfide	0.780	0.666		14.6	50.0
Trichlorofluoromethane	0.667	0.584		12.4	50.0
1,1-Dichloroethene	0.287	0.262		8.7	20.0
1,1-Dichloroethane	0.539	0.516	0.1	4.3	50.0
trans-1,2-Dichloroethene	0.351	0.317		9.7	50.0
cis-1,2-Dichloroethene	0.380	0.358		5.8	50.0
Chloroform	0.726	0.693		4.5	20.0
1,2-Dichloroethane	0.352	0.301		14.5	50.0
2-Butanone	0.023	0.019		17.4	50.0
1,1,1-Trichloroethane	0.667	0.635		4.8	50.0
Carbon Tetrachloride	0.673	0.655		2.7	50.0
Bromodichloromethane	0.718	0.673		6.3	50.0
1,2-Dichloropropane	0.329	0.298		9.4	20.0
cis-1,3-Dichloropropene	0.410	0.366		10.7	50.0
Trichloroethene	0.481	0.439		8.7	50.0
Dibromochloromethane	0.819	0.776		5.2	50.0
1,1,2-Trichloroethane	0.327	0.294		10.1	50.0
Benzene	0.825	0.755		8.5	50.0
trans-1,3-Dichloropropene	0.594	0.561		5.6	50.0
2-Chloroethyl Vinyl Ether	0.089	0.098		-10.1	50.0
Bromoform	0.583	0.538	0.1	7.7	50.0
4-Methyl-2-Pentanone	0.178	0.138		22.5	50.0
2-Hexanone	0.131	0.106		19.1	50.0
Tetrachloroethene	0.745	0.699		6.2	50.0
1,1,2,2-Tetrachloroethane	1.004	0.832	0.3	17.1	50.0
Toluene	1.156	1.108		4.2	20.0
Chlorobenzene	0.982	0.961	0.3	2.1	50.0
Ethylbenzene	0.439	0.430		2.0	20.0
Styrene	0.866	0.854		1.4	50.0
Xylene (Total)	0.526	0.521		1.0	50.0
Ethyl Ether					50.0

VOLATILE ORGANICS CONTINUING CALIBRATION CHECK(cont'd)
METHOD 8260B

Instrument ID: VOAMS1 Calibration Date: 10/31/00 Time: 0958
Lab File ID: A10500 Init. Calib. Date(s): 10/20/00 10/20/00
Heated Purge: (Y/N) Y Init. Calib. Times: 1236 1854

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
Acrolein	0.014	0.004		71.4	50.0
Freon TF	0.791	0.741		6.3	50.0
Isopropanol					50.0
Acetonitrile	0.009	0.008		11.1	50.0
TBA	0.018	0.013		27.8	50.0
Acrylonitrile	0.037	0.030		18.9	50.0
MTBE	0.611	0.513		16.0	50.0
Hexane					50.0
DIPE	0.796	0.733		7.9	50.0
Ethyl Acetate	0.206	0.165		19.9	50.0
Vinyl Acetate	0.580	0.454		21.7	50.0
Tetrahydrofuran					50.0
Cyclohexane	0.412	0.387		6.1	50.0
Isobutanol					50.0
Isopropyl Acetate	0.376	0.293		22.1	50.0
n-Heptane					50.0
n-Butanol					50.0
Propyl Acetate	0.300	0.240		20.0	50.0
Butyl Acetate	0.407	0.333		18.2	50.0
1,2-Dibromoethane	0.622	0.559		10.1	50.0
1,3-Dichlorobenzene	1.493	1.406		5.8	50.0
1,4-Dichlorobenzene	1.713	1.705		0.5	50.0
1,2-Dichlorobenzene	1.352	1.298		4.0	50.0
Naphthalene	0.884	0.708		19.9	50.0
Methylnaphthalene (total)					50.0
Dimethylnaphthalene (total)					50.0
Dichlorodifluoromethane	0.230	0.242		-5.2	50.0
1,1-Dichloropropene	0.501	0.480		4.2	50.0
1,2,4-Trichlorobenzene	0.784	0.752		4.1	50.0
Hexachlorobutadiene	0.687	0.730		-6.2	50.0
1,4-Dioxane	0.002	0.002		0.0	50.0
Methyl Acrylate					50.0
1,1,1,2-Tetrachloroethane	0.577	0.566		1.9	50.0
1,2,3-Trichlorobenzene	0.591	0.550		6.9	50.0
1,2,3-Trichloropropane	0.757	0.652		13.9	50.0
1,2,4-Trimethylbenzene	1.925	1.820		5.4	50.0
1,2-Dibromo-3-chloropropane	0.193	0.166		14.0	50.0

VOLATILE ORGANICS CONTINUING CALIBRATION CHECK(cont'd)
METHOD 8260B

Instrument ID: VOAMS1 Calibration Date: 10/31/00 Time: 0958
Lab File ID: A10500 Init. Calib. Date(s): 10/20/00 10/20/00
Heated Purge: (Y/N) Y Init. Calib. Times: 1236 1854

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
1,3,5-Trimethylbenzene	1.960	1.858		5.2	50.0
1,3-Dichloropropane	0.549	0.504		8.2	50.0
2,2-Dichloropropane	0.547	0.524		4.2	50.0
2-Chlorotoluene	2.016	1.983		1.6	50.0
4-Chlorotoluene	2.173	2.092		3.7	50.0
Bromobenzene	1.063	0.985		7.3	50.0
Bromochloromethane	0.272	0.243		10.7	50.0
Dibromomethane	0.366	0.325		11.2	50.0
Isopropylbenzene	1.501	1.502		-0.1	50.0
n-Butylbenzene	2.010	1.976		1.7	50.0
n-Propylbenzene	2.852	2.799		1.8	50.0
p-Isopropyltoluene	2.299	2.234		2.8	50.0
sec-Butylbenzene	2.825	2.778		1.7	50.0
tert-Butylbenzene	2.167	2.091		3.5	50.0
Allyl chloride					50.0
Benzyl chloride	1.103	0.925		16.1	50.0
Epichlorohydrin					50.0
Isoprene	0.270	0.226		16.3	50.0
Methyl methacrylate	0.257	0.219		14.8	50.0
n-Pentane	0.048	0.037		22.9	50.0
Allyl alcohol					50.0
Cyclohexene					50.0
Ethyl methacrylate					50.0
Methyl acetate	0.129	0.107		17.0	50.0
Methylcyclohexane	0.477	0.444		6.9	50.0
Ethanol					50.0
p-Ethyltoluene			0.01		50.0
1,4-Diethylbenzene			0.01		50.0
1,2,4,5-Tetramethylbenzene			0.01		50.0
=====	=====	=====	=====	=====	=====
1,2-Dichloroethane-d4 (SUR)	0.298	0.253		15.1	50.0
Toluene-d8 (SUR)	0.969	0.905		6.6	50.0
Bromofluorobenzene (SUR)	1.102	1.061		3.7	50.0

VOLATILE ORGANICS CONTINUING CALIBRATION CHECK
METHOD 8260B

Instrument ID: VOAMS1 Calibration Date: 11/01/00 Time: 0828
Lab File ID: A10523 Init. Calib. Date(s): 10/20/00 10/20/00
Heated Purge: (Y/N) Y Init. Calib. Times: 1236 1854

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
Chloromethane	0.098	0.137	0.01	-39.8	50.0
Bromomethane	0.213	0.129		39.4	50.0
Vinyl Chloride	0.137	0.125		8.8	20.0
Chloroethane	0.110	0.102		7.3	50.0
Methylene Chloride	0.340	0.272		20.0	50.0
Acetone	0.048	0.039		18.8	50.0
Carbon Disulfide	0.780	0.705		9.6	50.0
Trichlorofluoromethane	0.667	0.710		-6.4	50.0
1,1-Dichloroethene	0.287	0.292		-1.7	20.0
1,1-Dichloroethane	0.539	0.495	0.1	8.2	50.0
trans-1,2-Dichloroethene	0.351	0.311		11.4	50.0
cis-1,2-Dichloroethene	0.380	0.354		6.8	50.0
Chloroform	0.726	0.681		6.2	20.0
1,2-Dichloroethane	0.352	0.312		11.4	50.0
2-Butanone	0.023	0.019		17.4	50.0
1,1,1-Trichloroethane	0.667	0.623		6.6	50.0
Carbon Tetrachloride	0.673	0.628		6.7	50.0
Bromodichloromethane	0.718	0.683		4.9	50.0
1,2-Dichloropropane	0.329	0.300		8.8	20.0
cis-1,3-Dichloropropene	0.410	0.362		11.7	50.0
Trichloroethene	0.481	0.437		9.1	50.0
Dibromochloromethane	0.819	0.819		0.0	50.0
1,1,2-Trichloroethane	0.327	0.312		4.6	50.0
Benzene	0.825	0.738		10.5	50.0
trans-1,3-Dichloropropene	0.594	0.590		0.7	50.0
2-Chloroethyl Vinyl Ether	0.089	0.092		-3.4	50.0
Bromoform	0.583	0.568	0.1	2.6	50.0
4-Methyl-2-Pentanone	0.178	0.144		19.1	50.0
2-Hexanone	0.131	0.113		13.7	50.0
Tetrachloroethene	0.745	0.721		3.2	50.0
1,1,2,2-Tetrachloroethane	1.004	0.904	0.3	10.0	50.0
Toluene	1.156	1.149		0.6	20.0
Chlorobenzene	0.982	0.976	0.3	0.6	50.0
Ethylbenzene	0.439	0.437		0.4	20.0
Styrene	0.866	0.857		1.0	50.0
Xylene (Total)	0.526	0.522		0.8	50.0
Ethyl Ether					50.0

VOLATILE ORGANICS CONTINUING CALIBRATION CHECK(cont'd)
METHOD 8260B

Instrument ID: VOAMS1 Calibration Date: 11/01/00 Time: 0828
Lab File ID: A10523 Init. Calib. Date(s): 10/20/00 10/20/00
Heated Purge: (Y/N) Y Init. Calib. Times: 1236 1854

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Acrolein	0.014	0.013		7.1	50.0
Freon TF	0.791	0.859		-8.6	50.0
Isopropanol					50.0
Acetonitrile	0.009	0.008		11.1	50.0
TBA	0.018	0.012		33.3	50.0
Acrylonitrile	0.037	0.031		16.2	50.0
MTBE	0.611	0.519		15.0	50.0
Hexane					50.0
DIPE	0.796	0.716		10.0	50.0
Ethyl Acetate	0.206	0.169		18.0	50.0
Vinyl Acetate	0.580	0.453		21.9	50.0
Tetrahydrofuran					50.0
Cyclohexane	0.412	0.382		7.3	50.0
Isobutanol					50.0
Isopropyl Acetate	0.376	0.315		16.2	50.0
n-Heptane					50.0
n-Butanol					50.0
Propyl Acetate	0.300	0.238		20.7	50.0
Butyl Acetate	0.407	0.365		10.3	50.0
1,2-Dibromoethane	0.622	0.590		5.1	50.0
1,3-Dichlorobenzene	1.493	1.502		-0.6	50.0
1,4-Dichlorobenzene	1.713	1.601		6.5	50.0
1,2-Dichlorobenzene	1.352	1.284		5.0	50.0
Naphthalene	0.884	0.652		26.2	50.0
Methylnaphthalene (total)					50.0
Dimethylnaphthalene (total)					50.0
Dichlorodifluoromethane	0.230	0.211		8.3	50.0
1,1-Dichloropropene	0.501	0.470		6.2	50.0
1,2,4-Trichlorobenzene	0.784	0.675		13.9	50.0
Hexachlorobutadiene	0.687	0.660		3.9	50.0
1,4-Dioxane	0.002	0.002		0.0	50.0
Methyl Acrylate					50.0
1,1,1,2-Tetrachloroethane	0.577	0.580		-0.5	50.0
1,2,3-Trichlorobenzene	0.591	0.472		20.1	50.0
1,2,3-Trichloropropane	0.757	0.703		7.1	50.0
1,2,4-Trimethylbenzene	1.925	1.852		3.8	50.0
1,2-Dibromo-3-chloropropane	0.193	0.166		14.0	50.0

VOLATILE ORGANICS CONTINUING CALIBRATION CHECK(cont'd)
METHOD 8260B

Instrument ID: VOAMS1 Calibration Date: 11/01/00 Time: 0828
Lab File ID: A10523 Init. Calib. Date(s): 10/20/00 10/20/00
Heated Purge: (Y/N) Y Init. Calib. Times: 1236 1854

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
1,3,5-Trimethylbenzene	1.960	1.880		4.1	50.0
1,3-Dichloropropane	0.549	0.528		3.8	50.0
2,2-Dichloropropane	0.547	0.506		7.5	50.0
2-Chlorotoluene	2.016	1.986		1.5	50.0
4-Chlorotoluene	2.173	2.155		0.8	50.0
Bromobenzene	1.063	1.016		4.4	50.0
Bromochloromethane	0.272	0.237		12.9	50.0
Dibromomethane	0.366	0.328		10.4	50.0
Isopropylbenzene	1.501	1.508		-0.5	50.0
n-Butylbenzene	2.010	1.962		2.4	50.0
n-Propylbenzene	2.852	2.812		1.4	50.0
p-Isopropyltoluene	2.299	2.215		3.6	50.0
sec-Butylbenzene	2.825	2.816		0.3	50.0
tert-Butylbenzene	2.167	2.103		3.0	50.0
Allyl chloride					50.0
Benzyl chloride	1.103	0.980		11.2	50.0
Epichlorohydrin					50.0
Isoprene	0.270	0.292		-8.1	50.0
Methyl methacrylate	0.257	0.230		10.5	50.0
n-Pentane	0.048	0.046		4.2	50.0
Allyl alcohol					50.0
Cyclohexene					50.0
Ethyl methacrylate					50.0
Methyl acetate	0.129	0.107		17.0	50.0
Methylcyclohexane	0.477	0.450		5.7	50.0
Ethanol					50.0
p-Ethyltoluene			0.01		50.0
1,4-Diethylbenzene			0.01		50.0
1,2,4,5-Tetramethylbenzene			0.01		50.0
=====	=====	=====	=====	=====	=====
1,2-Dichloroethane-d4 (SUR)	0.298	0.258		13.4	50.0
Toluene-d8 (SUR)	0.969	0.934		3.6	50.0
Bromofluorobenzene (SUR)	1.102	1.077		2.3	50.0

VOLATILE ORGANICS INITIAL CALIBRATION DATA
METHOD 624

Instrument ID: VOAMS7

Calibration Date(s): 10/24/00 10/24/00

Heated Purge: (Y/N) N

Calibration Time(s): 1452 1639

LAB FILE ID: RRF5: V22492 RRF10: V22493 RRF20: V22494					
RRF50: V22495 RRF200: V22496					
COMPOUND	RRF5	RRF10	RRF20	RRF50	RRF200
=====	=====	=====	=====	=====	=====
Chloromethane	0.629	0.663	0.624	0.650	0.685
Bromomethane	0.947	0.976	0.910	0.944	0.900
Vinyl Chloride	0.697	0.756	0.765	0.804	0.827
Chloroethane	0.650	0.609	0.573	0.599	0.560
Methylene Chloride	1.442	1.404	1.345	1.352	1.263
Acetone	0.385	0.317	0.318	0.281	0.249
Carbon Disulfide	2.703	3.026	3.119	3.270	3.289
Trichlorofluoromethane	1.880	2.007	2.077	2.329	2.482
1,1-Dichloroethene	1.292	1.198	1.192	1.200	1.167
1,1-Dichloroethane	2.688	2.817	2.771	2.861	2.704
trans-1,2-Dichloroethene	1.470	1.476	1.464	1.469	1.434
cis-1,2-Dichloroethene	1.567	1.629	1.613	1.641	1.560
Chloroform	3.464	3.560	3.487	3.586	3.388
1,2-Dichloroethane	0.592	0.615	0.588	0.598	0.566
2-Butanone	0.250	0.202	0.137	0.133	0.118
1,1,1-Trichloroethane	2.732	2.825	2.822	2.872	2.699
Carbon Tetrachloride	2.605	2.633	2.659	2.715	2.570
Bromodichloromethane	0.735	0.779	0.802	0.830	0.799
1,2-Dichloropropane	0.380	0.411	0.405	0.407	0.381
cis-1,3-Dichloropropene	0.499	0.543	0.559	0.585	0.574
Trichloroethene	0.433	0.458	0.460	0.464	0.442
Dibromochloromethane	0.673	0.692	0.848	0.906	0.874
1,1,2-Trichloroethane	0.391	0.392	0.446	0.477	0.448
Benzene	0.909	0.958	0.944	0.953	0.920
trans-1,3-Dichloropropene	0.529	0.536	0.695	0.732	0.742
2-Chloroethyl Vinyl Ether	0.212	0.232	0.224	0.239	0.234
Bromoform	0.322	0.360	0.450	0.509	0.522
4-Methyl-2-Pentanone	0.251	0.279	0.262	0.281	0.270
2-Hexanone	0.148	0.149	0.188	0.219	0.222
Tetrachloroethene	0.613	0.638	0.766	0.768	0.711
1,1,2,2-Tetrachloroethane	0.572	0.604	0.679	0.708	0.647
Toluene	1.265	1.286	1.550	1.584	1.507
Chlorobenzene	0.936	0.940	1.115	1.138	1.070
Ethylbenzene	0.391	0.427	0.488	0.518	0.466
Styrene	0.761	0.798	0.972	1.068	1.014
Xylene (Total)	0.551	0.555	0.659	0.680	0.629
Ethyl Ether	1.235	1.031	1.007	1.015	0.947
Acrolein	0.109	0.129	0.115	0.113	0.112
Freon TF	2.674	3.066	3.001	3.015	2.881

VOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 624

Instrument ID: VOAMS7

Calibration Date(s): 10/24/00 10/24/00

Heated Purge: (Y/N) N

Calibration Time(s): 1452 1639

LAB FILE ID:	RRF5: V22492	RRF10: V22493	RRF20: V22494		
	RRF50: V22495	RRF200: V22496			
COMPOUND	RRF5	RRF10	RRF20	RRF50	RRF200
=====	=====	=====	=====	=====	=====
Isopropanol					
Acetonitrile					
TBA	0.088	0.088	0.078	0.080	0.076
Acrylonitrile	0.203	0.212	0.202	0.216	0.222
MTBE	3.946	3.883	3.666	3.726	3.478
Hexane	0.763	0.974	0.944	1.033	0.941
DIPE	5.586	5.608	5.512	5.642	5.295
Ethyl Acetate	1.687	1.685	1.470	1.518	1.415
Vinyl Acetate	4.104	4.357	4.183	4.313	4.306
Tetrahydrofuran					
Cyclohexane	1.835	2.168	2.189	2.132	2.043
Isobutanol					
Isopropyl Acetate	0.698	0.736	0.685	0.718	0.696
n-Heptane					
n-Butanol					
Propyl Acetate	0.491	0.566	0.513	0.516	0.479
Butyl Acetate	0.626	0.653	0.735	0.815	0.793
1,2-Dibromoethane	0.568	0.609	0.714	0.741	0.721
1,3-Dichlorobenzene	0.550	0.674	0.757	0.856	0.822
1,4-Dichlorobenzene	0.851	0.801	1.012	1.053	1.007
1,2-Dichlorobenzene	0.673	0.702	0.762	0.817	0.743
Naphthalene	0.110	0.142	0.137	0.138	0.042
Methylnaphthalene (total)					
Dimethylnaphthalene (total)					
Dichlorodifluoromethane	0.976	1.116	1.020	1.260	1.529
1,4-Dioxane	0.002	0.002	0.002	0.002	0.002
n-Pentane	0.403	0.350	0.316	0.296	0.284
5-Methyl-2-Hexanone					
Isopropylbenzene	1.565	1.632	1.953	2.021	1.860
1,2,4-Trimethylbenzene	1.128	1.206	1.452	1.488	1.415
Cyclohexanone					
1,2,4-Trichlorobenzene	0.202	0.236	0.272	0.268	0.089
Methyl Methacrylate	0.083	0.095	0.091	0.098	0.093
Allyl Alcohol					
Epichlorohydrin	0.027	0.030	0.027	0.029	0.028
Allyl Chloride					
Benzyl Chloride	0.467	0.524	0.601	0.702	0.644
Isoprene	4.358	4.661	4.632	4.554	4.316
1,1,1,2-Tetrachloroethane					

VOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 624

Instrument ID: VOAMS7

Calibration Date(s): 10/24/00 10/24/00

Heated Purge: (Y/N) N

Calibration Time(s): 1452 1639

LAB FILE ID:	RRF5: V22492 RRF50: V22495	RRF10: V22493 RRF200: V22496	RRF20: V22494		
COMPOUND	RRF5	RRF10	RRF20	RRF50	RRF200
=====	=====	=====	=====	=====	=====
Camphene (total)					
Camphor					
1,3,5-Trimethylbenzene	1.202	1.271	1.532	1.562	1.438
1,2,3-Trichlorobenzene					
n-Butylbenzene					
sec-Butylbenzene					
tert-Butylbenzene					
p-Isopropyltoluene					
n-Propylbenzene					
m+p-Ethyltoluene					
o-Ethyltoluene					
Methyl Acetate	0.940	1.102	0.972	1.077	1.004
Methyl cyclohexane	0.474	0.571	0.590	0.583	0.564
1,2-Dibromo-3-chloropropane	0.081	0.082	0.086	0.090	0.043
Cyclohexene					
1,2-Dichlorotrifluoroethane	3.689	3.889	4.019	4.554	4.316
n-Propanol					
3-Methyl-1-Pentyn-3-ol					
Propylene Oxide					
Chlorotrifluoroethane	1.731	1.712	1.689	1.717	1.593
=====	=====	=====	=====	=====	=====
1,2-Dichloroethane-d4 (SUR)	0.066	0.066	0.063	0.062	0.062
Toluene-d8 (SUR)	1.081	1.049	1.259	1.291	1.267
Bromofluorobenzene (SUR)	0.457	0.445	0.534	0.546	0.541

VOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 624

Instrument ID: VOAMS7

Calibration Date(s): 10/24/00 10/24/00

Heated Purge: (Y/N) N

Calibration Time(s): 1452 1639

COMPOUND	CURVE	COEFFICIENT A1	%RSD OR R^2
Chloromethane	AVRG	0.65014628	3.8*
Bromomethane	AVRG	0.93504745	3.3*
Vinyl Chloride	AVRG	0.76988034	6.5*
Chloroethane	AVRG	0.59818515	5.8*
Methylene Chloride	AVRG	1.36133759	5.0*
Acetone	AVRG	0.31000817	16.4*
Carbon Disulfide	AVRG	3.08147505	7.7*
Trichlorofluoromethane	AVRG	2.15519034	11.4*
1,1-Dichloroethene	AVRG	1.20977717	4.0*
1,1-Dichloroethane	AVRG	2.76809682	2.6*
trans-1,2-Dichloroethene	AVRG	1.46264947	1.1*
cis-1,2-Dichloroethene	AVRG	1.60201581	2.3*
Chloroform	AVRG	3.49685339	2.3*
1,2-Dichloroethane	AVRG	0.59178266	3.0*
2-Butanone	AVRG	0.16815180	33.4*
1,1,1-Trichloroethane	AVRG	2.79022072	2.6*
Carbon Tetrachloride	AVRG	2.63663148	2.1*
Bromodichloromethane	AVRG	0.78908495	4.4*
1,2-Dichloropropane	AVRG	0.39696614	3.8*
cis-1,3-Dichloropropene	AVRG	0.55188057	6.1*
Trichloroethene	AVRG	0.45124439	2.9*
Dibromochloromethane	AVRG	0.79860122	13.5*
1,1,2-Trichloroethane	AVRG	0.43082915	8.7*
Benzene	AVRG	0.93674699	2.3*
trans-1,3-Dichloropropene	AVRG	0.64695207	16.4*
2-Chloroethyl Vinyl Ether	AVRG	0.22834135	4.6*
Bromoform	AVRG	0.43265042	20.6*
4-Methyl-2-Pentanone	AVRG	0.26861834	4.6*
2-Hexanone	AVRG	0.18547231	19.4*
Tetrachloroethene	AVRG	0.69942974	10.2*
1,1,2,2-Tetrachloroethane	AVRG	0.64182223	8.6*
Toluene	AVRG	1.43857361	10.5*
Chlorobenzene	AVRG	1.03954570	9.2*
Ethylbenzene	AVRG	0.45826581	10.9*
Styrene	AVRG	0.92261514	14.7*
Xylene (Total)	AVRG	0.61487618	9.6*
Ethyl Ether	AVRG	1.04696817	10.5*
Acrolein	AVRG	0.11556250	6.8*
Freon TF	AVRG	2.92756503	5.4*

* Compound with required maximum % RSD value.

** Compound with required minimum RRF value.

VOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 624

Instrument ID: VOAMS7

Calibration Date(s): 10/24/00 10/24/00

Heated Purge: (Y/N) N

Calibration Time(s): 1452 1639

COMPOUND	CURVE	COEFFICIENT A1	%RSD OR R^2
=====	=====	=====	=====
Isopropanol	AVRG		
Acetonitrile	AVRG		
TBA	AVRG	0.08193586	6.9*
Acrylonitrile	AVRG	0.21121003	4.1*
MTBE	AVRG	3.73979690	5.0*
Hexane	AVRG	0.93098136	10.8*
DIPE	AVRG	5.52867089	2.5*
Ethyl Acetate	AVRG	1.55522532	8.0*
Vinyl Acetate	AVRG	4.25264584	2.5*
Tetrahydrofuran	AVRG		
Cyclohexane	AVRG	2.07361208	7.0*
Isobutanol	AVRG		
Isopropyl Acetate	AVRG	0.70664389	2.9*
n-Heptane	AVRG		
n-Butanol	AVRG		
Propyl Acetate	AVRG	0.51292616	6.4*
Butyl Acetate	AVRG	0.72457904	11.5*
1,2-Dibromoethane	AVRG	0.67075590	11.4*
1,3-Dichlorobenzene	AVRG	0.73178323	16.8*
1,4-Dichlorobenzene	AVRG	0.94491696	11.8*
1,2-Dichlorobenzene	AVRG	0.73944702	7.5*
Naphthalene	AVRG	0.11409070	37.0*
Methylnaphthalene (total)	AVRG		
Dimethylnaphthalene (total)	AVRG		
Dichlorodifluoromethane	AVRG	1.18036362	18.9**
1,4-Dioxane	AVRG	0.00197134	5.4*
n-Pentane	AVRG	0.32987444	14.6**
5-Methyl-2-Hexanone	AVRG		
Isopropylbenzene	AVRG	1.80610881	11.0*
1,2,4-Trimethylbenzene	AVRG	1.33794405	12.0**
Cyclohexanone	AVRG		
1,2,4-Trichlorobenzene	AVRG	0.21331739	35.2**
Methyl Methacrylate	AVRG	0.09194667	6.1*
Allyl Alcohol	AVRG		
Epichlorohydrin	AVRG	0.02812076	4.4**
Allyl Chloride	AVRG		
Benzyl Chloride	AVRG	0.58774489	15.9**
Isoprene	AVRG	4.50414197	3.5**
1,1,1,2-Tetrachloroethane	AVRG		

* Compound with required maximum % RSD value.

** Compound with required minimum RRF value.

VOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 624

Instrument ID: VOAMS7

Calibration Date(s): 10/24/00 10/24/00

Heated Purge: (Y/N) N

Calibration Time(s): 1452 1639

COMPOUND	CURVE	COEFFICIENT A1	%RSD OR R^2
=====	=====	=====	=====
Camphene (total)	AVRG		
Camphor	AVRG		
1,3,5-Trimethylbenzene	AVRG	1.40099513	11.3**
1,2,3-Trichlorobenzene	AVRG		
n-Butylbenzene	AVRG		
sec-Butylbenzene	AVRG		
tert-Butylbenzene	AVRG		
p-Isopropyltoluene	AVRG		
n-Propylbenzene	AVRG		
m+p-Ethyltoluene	AVRG		
o-Ethyltoluene	AVRG		
Methyl Acetate	AVRG	1.01918735	6.7*
Methyl cyclohexane	AVRG	0.55632423	8.5*
1,2-Dibromo-3-chloropropane	AVRG	0.07642630	24.9**
Cyclohexene	AVRG		
1,2-Dichlorotrifluoroethane	AVRG	4.09339445	8.4*
n-Propanol	AVRG		
3-Methyl-1-Pentyn-3-ol	AVRG		
Propylene Oxide	AVRG		
Chlorotrifluoroethane	AVRG	1.68834611	3.3*
=====	=====	=====	=====
1,2-Dichloroethane-d4 (SUR)	AVRG	0.06397958	3.0*
Toluene-d8 (SUR)	AVRG	1.18938343	9.6*
Bromofluorobenzene (SUR)	AVRG	0.50439358	9.8*

* Compound with required maximum % RSD value.

** Compound with required minimum RRF value.

VOLATILE ORGANICS CONTINUING CALIBRATION CHECK
METHOD 624

Instrument ID: VOAMS7 Calibration Date: 10/30/00 Time: 1045
Lab File ID: V22770 Init. Calib. Date(s): 10/24/00 10/24/00
Heated Purge: (Y/N) N Init. Calib. Times: 1452 1639

COMPOUND	RRF	RRF20	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
Chloromethane	0.650	0.505		22.3	104
Bromomethane	0.935	0.791		15.4	86.0
Vinyl Chloride	0.770	0.621		19.4	96.0
Chloroethane	0.598	0.547		8.5	62.0
Methylene Chloride	1.361	0.922		32.2	39.5
Acetone	0.310	0.203		34.5	
Carbon Disulfide	3.081	2.042		33.7	
Trichlorofluoromethane	2.155	1.912		11.3	52.0
1,1-Dichloroethene	1.210	0.732		39.5	49.5
1,1-Dichloroethane	2.768	2.045		26.1	27.5
trans-1,2-Dichloroethene	1.463	1.053		28.0	30.5
cis-1,2-Dichloroethene	1.602	1.199		25.2	
Chloroform	3.497	2.776		20.6	32.5
1,2-Dichloroethane	0.592	0.472		20.3	32.0
2-Butanone	0.168	0.115		31.5	
1,1,1-Trichloroethane	2.790	2.232		20.0	25.0
Carbon Tetrachloride	2.636	2.161		18.0	27.0
Bromodichloromethane	0.789	0.634		19.6	34.5
1,2-Dichloropropane	0.397	0.301		24.2	66.0
cis-1,3-Dichloropropene	0.552	0.438		20.6	76.0
Trichloroethene	0.451	0.348		22.8	33.5
Dibromochloromethane	0.799	0.673		15.8	32.5
1,1,2-Trichloroethane	0.431	0.351		18.6	29.0
Benzene	0.937	0.692		26.1	36.0
trans-1,3-Dichloropropene	0.647	0.538		16.8	50.0
2-Chloroethyl Vinyl Ether	0.228	0.176		22.8	124
Bromoform	0.433	0.370		14.5	29.0
4-Methyl-2-Pentanone	0.269	0.195		27.5	
2-Hexanone	0.185	0.138		25.4	
Tetrachloroethene	0.699	0.611		12.6	26.5
1,1,2,2-Tetrachloroethane	0.642	0.502		21.8	39.5
Toluene	1.438	1.184		17.7	25.5
Chlorobenzene	1.040	0.865		16.8	34.0
Ethylbenzene	0.458	0.384		16.2	41.0
Styrene	0.923	0.730		20.9	
Xylene (Total)	0.615	0.507		17.6	
Ethyl Ether	1.047	0.740		29.3	

VOLATILE ORGANICS CONTINUING CALIBRATION CHECK(cont'd)
METHOD 624

Instrument ID: VOAMS7 Calibration Date: 10/30/00 Time: 1045
Lab File ID: V22770 Init. Calib. Date(s): 10/24/00 10/24/00
Heated Purge: (Y/N) N Init. Calib. Times: 1452 1639

COMPOUND	RRF	RRF20	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
Acrolein	0.116	0.084		27.6	
Freon TF	2.927	2.245		23.3	
Isopropanol					
Acetonitrile					
TBA	0.082	0.064		22.0	
Acrylonitrile	0.211	0.148		29.8	
MTBE	3.740	2.801		25.1	
Hexane	0.931	0.670		28.0	
DIPE	5.529	4.147		25.0	
Ethyl Acetate	1.555	1.125		27.6	
Vinyl Acetate	4.253	3.217		24.4	
Tetrahydrofuran					
Cyclohexane	2.073	1.556		24.9	
Isobutanol					
Isopropyl Acetate	0.707	0.522		26.2	
n-Heptane					
n-Butanol					
Propyl Acetate	0.513	0.389		24.2	
Butyl Acetate	0.724	0.555		23.3	
1,2-Dibromoethane	0.671	0.525		21.8	
1,3-Dichlorobenzene	0.732	0.551		24.7	27.0
1,4-Dichlorobenzene	0.945	0.765		19.0	37.0
1,2-Dichlorobenzene	0.739	0.575		22.2	37.0
Naphthalene	0.114	0.110		3.5	
Methylnaphthalene (total)					
Dimethylnaphthalene (total)					
Dichlorodifluoromethane	1.180	1.220	0.01	-3.4	40.0
1,4-Dioxane	0.002	0.001		50.0	
n-Pentane	0.330	0.209	0.01	36.7	
5-Methyl-2-Hexanone			0.01		50.0
Isopropylbenzene	1.806	1.474		18.4	
1,2,4-Trimethylbenzene	1.338	1.053	0.01	21.3	50.0
Cyclohexanone			0.0001		50.0
1,2,4-Trichlorobenzene	0.213	0.165	0.01	22.5	50.0
Methyl Methacrylate	0.092	0.070		23.9	
Allyl Alcohol					40.0
Epichlorohydrin	0.028	0.020	0.01	28.6	40.0

VOLATILE ORGANICS CONTINUING CALIBRATION CHECK(cont'd)
METHOD 624

Instrument ID: VOAMS7 Calibration Date: 10/30/00 Time: 1045
Lab File ID: V22770 Init. Calib. Date(s): 10/24/00 10/24/00
Heated Purge: (Y/N) N Init. Calib. Times: 1452 1639

COMPOUND	RRF	RRF20	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
Allyl Chloride			0.01		40.0
Benzyl Chloride	0.588	0.458	0.01	22.1	40.0
Isoprene	4.504	3.269	0.01	27.4	40.0
1,1,1,2-Tetrachloroethane			0.01		50.0
Camphene (total)					
Camphor					
1,3,5-Trimethylbenzene	1.401	1.124	0.01	19.8	50.0
1,2,3-Trichlorobenzene					50.0
n-Butylbenzene					50.0
sec-Butylbenzene					50.0
tert-Butylbenzene					50.0
p-Isopropyltoluene					50.0
n-Propylbenzene					50.0
m+p-Ethyltoluene					50.0
o-Ethyltoluene					50.0
Methyl Acetate	1.019	0.788		22.7	
Methyl cyclohexane	0.556	0.421		24.3	
1,2-Dibromo-3-chloropropane	0.076	0.070	0.01	7.9	
Cyclohexene					
1,2-Dichlorotrifluoroethane	4.093	3.269		20.1	
n-Propanol					
3-Methyl-1-Pentyn-3-ol					
Propylene Oxide					
Chlorotrifluoroethane	1.688	1.204		28.7	
=====	=====	=====	=====	=====	=====
1,2-Dichloroethane-d4 (SUR)	0.064	0.062		3.1	
Toluene-d8 (SUR)	1.189	1.272		-7.0	
Bromofluorobenzene (SUR)	0.505	0.532		-5.3	

VOLATILE SYSTEM MONITORING COMPOUND RECOVERY \ (cont\'d\
METHOD 8260B

Matrix: SOIL

Level: LOW

Lab Job No: F104

	LAB SAMPLE NO.	S1 #	S2 #	S3 #	OTHER	TOT OUT
	=====	=====	=====	=====	=====	=====
01	AV306	75	99	98		0
02	237815MS	96	104	127		0
03	237815MSD	100	103	127		0
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QC LIMITS

S1 = 1,2-Dichloroethane-d4 (72-141)
S2 = Toluene-d8 (77-137)
S3 = Bromofluorobenzene (69-168)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

VOLATILE SYSTEM MONITORING COMPOUND RECOVERY
METHOD 8260B

Matrix: SOIL

Level: LOW

Lab Job No: F104

	LAB SAMPLE NO.	S1 #	S2 #	S3 #	OTHER	TOT OUT
	=====	=====	=====	=====	=====	=====
01	AV303	82	94	98		0
02	237812	106	165*	168*		2
03	237812R1	147*	186*	291*		3
04	237813	95	107	136		0
05	237814	97	119	140		0
06	AV304	91	99	101		0
07	237815	99	104	124		0
08	237816	106	123	155		0
09	237817	130	126	154		0
10	237819	130	161*	169*		2
11	237820	101	106	115		0
12	237839	108	114	141		0
13	237814R1	104	131	150		0
14	AV304A	84	101	102		0
15	237816R1	99	119	148		0
16	237817R1	118	124	146		0
17	237818	96	106	124		0
18	237819R1	121	140*	157		1
19	237839R1	99	110	133		0
20	AV305	88	92	98		0
21	237825R1	148*	137	186*		2
22	237826	117	120	113		0
23	237827	144*	138*	135		2
24	237828	152*	137*	175*		3
25	237829	138	130	151		0
26	237825	100	103	140		0
27	237826R1	118	106	113		0
28	237827R1	105	104	117		0
29	237828R1	134	134	182*		1
30	237829R1	118	125	164		0

QC LIMITS

S1 = 1,2-Dichloroethane-d4 (72-141)
S2 = Toluene-d8 (77-137)
S3 = Bromofluorobenzene (69-168)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

VOLATILE SYSTEM MONITORING COMPOUND RECOVERY
METHOD 624

Matrix: WATER

Level: LOW

Lab Job No: F104

	LAB SAMPLE NO.	S1 #	S2 #	S3 #	OTHER	TOT OUT
	=====	=====	=====	=====	=====	=====
01	VV304A	95	107	91		0
02	237821	94	109	91		0
03	237822	92	109	89		0
04	237823	93	111	87		0
05	237824	94	110	84		0
06	237830	96	109	87		0
07	237831	96	110	89		0
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QC LIMITS

S1 = 1,2-Dichloroethane-d4 (83-117)
 S2 = Toluene-d8 (78-120)
 S3 = Bromofluorobenzene (70-125)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY
METHOD 8260B

Matrix: SOIL

Matrix Spike - Lab Sample No.: 237815

Level: LOW

MS Sample from Lab Job No: F104

QA Batch: 1914

Compound	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
=====	=====	=====	=====	=====	=====
1,1-Dichloroethene	50	0.00	44	88	85-118
Trichloroethene	50	0.00	42	84	53-138
Benzene	50	0.00	45	90	78-117
Toluene	50	0.62	52	103	62-133
Chlorobenzene	50	0.00	48	96	88-116

Compound	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS	
=====	=====	=====	=====	=====	=====	=====
1,1-Dichloroethene	50	44	88	0	40	85-118
Trichloroethene	50	43	86	2	40	53-138
Benzene	50	46	92	2	40	78-117
Toluene	50	52	103	0	40	62-133
Chlorobenzene	50	48	96	0	40	88-116

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

* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS:

VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY
METHOD 8260B

Matrix: SOIL

Matrix Spike - Lab Sample No.: 237903

Level: LOW

MS Sample from Lab Job No: F119

QA Batch: 1918

Compound	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
=====	=====	=====	=====	=====	=====
1,1-Dichloroethene	52	0.00	59	113	85-118
Trichloroethene	52	0.00	41	79	53-138
Benzene	52	30	88	112	78-117
Toluene	52	13	90	148*	62-133
Chlorobenzene	52	0.00	54	104	88-116

Compound	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
=====	=====	=====	=====	=====	=====	=====
1,1-Dichloroethene	51	60	118	4	40	85-118
Trichloroethene	51	41	80	2	40	53-138
Benzene	51	76	90	21	40	78-117
Toluene	51	79	129	13	40	62-133
Chlorobenzene	51	54	106	2	40	88-116

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

* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 1 out of 10 outside limits

COMMENTS: MS & MSD failed for internal standard recoveries.

VOLATILE SPIKE RECOVERY SUMMARY
METHOD 624

Matrix: WATER

Matrix Spike - Lab Sample No.: 235988

Level: LOW

MS Sample from Lab Job No: E795

QA Batch: 3567

Compound	MS % REC.	BS % REC.	LIMITS
Chloromethane	110	115	0-273
Bromomethane	110	115	0-242
Vinyl Chloride	110	115	0-251
Chloroethane	120	125	14-230
Methylene Chloride	110	110	0-221
Trichlorofluoromethane	99	105	17-181
1,1-Dichloroethene	110	115	0-234
1,1-Dichloroethane	110	120	59-155
trans-1,2-Dichloroethene	110	110	54-156
Chloroform	110	115	51-138
1,2-Dichloroethane	110	115	49-155
1,1,1-Trichloroethane	110	115	52-162
Carbon Tetrachloride	120	115	70-140
Bromodichloromethane	110	120	35-155
1,2-Dichloropropane	110	110	0-210
cis-1,3-Dichloropropene	100	110	0-227
Trichloroethene	110	130	71-157
Dibromochloromethane	100	120	53-149
1,1,2-Trichloroethane	120	130	52-150
Benzene	108	110	37-151
trans-1,3-Dichloropropene	110	120	17-183
2-Chloroethyl Vinyl Ether	0	90	0-305
Bromoform	97	120	45-169
Tetrachloroethene	120	130	64-148
1,1,2,2-Tetrachloroethane	110	110	46-157
Toluene	118	125	47-150
Chlorobenzene	120	125	37-160
Ethylbenzene	121	130	37-162
1,3-Dichlorobenzene	110	110	59-156
1,4-Dichlorobenzene	110	125	18-190

* Values outside of QC limits

VOLATILE SPIKE RECOVERY SUMMARY
METHOD 624

Matrix: WATER

Matrix Spike - Lab Sample No.: 235988

Level: LOW

MS Sample from Lab Job No: E795

QA Batch: 3567

Compound	MS % REC.	BS % REC.	LIMITS
=====	=====	=====	=====
1,2-Dichlorobenzene	110	120	18-190

* Values outside of QC limits

Spike Recovery: 0 out of 62 outside limits

COMMENTS: _____

VOLATILE SPIKE RECOVERY SUMMARY
METHOD 624

Matrix: WATER

Matrix Spike - Lab Sample No.: 236890

Level: LOW

MS Sample from Lab Job No: E956

QA Batch: 3599

Compound	MS % REC.	BS % REC.	LIMITS
Chloromethane	5	110	0-273
Bromomethane	60	115	0-242
Vinyl Chloride	36	110	0-251
Chloroethane	72	130	14-230
Methylene Chloride	110	100	0-221
Trichlorofluoromethane	67	125	17-181
1,1-Dichloroethene	110	105	0-234
1,1-Dichloroethane	120	110	59-155
trans-1,2-Dichloroethene	110	105	54-156
Chloroform	120	110	51-138
1,2-Dichloroethane	130	105	49-155
1,1,1-Trichloroethane	120	110	52-162
Carbon Tetrachloride	130	115	70-140
Bromodichloromethane	110	110	35-155
1,2-Dichloropropane	110	100	0-210
cis-1,3-Dichloropropene	110	100	0-227
Trichloroethene	120	105	71-157
Dibromochloromethane	96	120	53-149
1,1,2-Trichloroethane	110	110	52-150
Benzene	110	100	37-151
trans-1,3-Dichloropropene	120	120	17-183
2-Chloroethyl Vinyl Ether	0	95	0-305
Bromoform	77	120	45-169
Tetrachloroethene	120	120	64-148
1,1,2,2-Tetrachloroethane	100	105	46-157
Toluene	113	115	47-150
Chlorobenzene	116	110	37-160
Ethylbenzene	123	110	37-162
1,3-Dichlorobenzene	110	105	59-156
1,4-Dichlorobenzene	110	105	18-190

* Values outside of QC limits

VOLATILE SPIKE RECOVERY SUMMARY
METHOD 624

Matrix: WATER

Matrix Spike - Lab Sample No.: 236890

Level: LOW

MS Sample from Lab Job No: E956

QA Batch: 3599

Compound	MS % REC.	BS % REC.	LIMITS
1,2-Dichlorobenzene	110	105	18-190

* Values outside of QC limits

Spike Recovery: 0 out of 62 outside limits

COMMENTS:

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab File ID (Standard): A10437

Date Analyzed: 10/29/00

Instrument ID: VOAMS1

Time Analyzed: 1152

		IS1 AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DCB) AREA #	RT #
	=====	=====	=====	=====	=====	=====	=====
	12 HOUR STD	5122674	10.08	4025781	13.72	2279615	16.25
	UPPER LIMIT	10245348	10.58	8051562	14.22	4559230	16.75
	LOWER LIMIT	2561337	9.58	2012890	13.22	1139808	15.75
	=====	=====	=====	=====	=====	=====	=====
	LABORATORY SAMPLE NO.						
	=====	=====	=====	=====	=====	=====	=====
01	AV303	5117896	10.12	4039214	13.74	2265961	16.26
02	237812	3089555	10.10	1031542*	13.74	185281*	16.26
03	237812R1	432109*	10.13	168579*	13.76	35265*	16.32
04	237813	4985574	10.11	3329240	13.75	1220492	16.27
05	237814	3273868	10.11	2060502	13.75	710975*	16.26
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IS1 = Fluorobenzene

IS2 (CBZ) = Chlorobenzene-d5

IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab File ID (Standard): A10458

Date Analyzed: 10/30/00

Instrument ID: VOAMS1

Time Analyzed: 0811

	IS1 AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DCB) AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	4623819	10.13	3633592	13.76	2149170	16.29
UPPER LIMIT	9247638	10.63	7267184	14.26	4298340	16.79
LOWER LIMIT	2311910	9.63	1816796	13.26	1074585	15.79
=====	=====	=====	=====	=====	=====	=====
LABORATORY SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 AV304	4248701	10.15	3389637	13.78	1881644	16.29
02 237815	4805534	10.12	3285133	13.75	1381304	16.28
03 237816	4149057	10.13	2373765	13.77	654914*	16.29
04 237817	2263971*	10.13	1078997*	13.76	299937*	16.29
05 237819	2873549	10.16	1289291*	13.78	262026*	16.32
06 237820	5423306	10.13	3767623	13.76	1812308	16.29
07 237839	3767892	10.13	2123804	13.75	734051*	16.27
08 237814R1	3300131	10.13	1665089*	13.75	498030*	16.28
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IS1 = Fluorobenzene
 IS2 (CBZ) = Chlorobenzene-d5
 IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab File ID (Standard): A10477

Date Analyzed: 10/30/00

Instrument ID: VOAMS1

Time Analyzed: 1958

	IS1 AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DCB) AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	4070652	10.13	3299727	13.75	1945302	16.29
UPPER LIMIT	8141304	10.63	6599454	14.25	3890604	16.79
LOWER LIMIT	2035326	9.63	1649864	13.25	972651	15.79
=====	=====	=====	=====	=====	=====	=====
LABORATORY SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 AV304A	4785855	10.16	3910769	13.78	2269013	16.29
02 237816R1	3781592	10.16	2211231	13.78	662352*	16.30
03 237817R1	2555435	10.13	1238375*	13.76	356491*	16.29
04 237818	4072571	10.13	2692595	13.76	1031358	16.29
05 237819R1	3123857	10.15	1581274*	13.78	388402*	16.31
06 237839R1	4090076	10.13	2461977	13.77	859644*	16.29
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IS1 = Fluorobenzene
 IS2 (CBZ) = Chlorobenzene-d5
 IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab File ID (Standard): A10500

Date Analyzed: 10/31/00

Instrument ID: VOAMS1

Time Analyzed: 0958

	IS1 AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DCB) AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	4469688	10.11	3621239	13.75	2179726	16.27
UPPER LIMIT	8939376	10.61	7242478	14.25	4359452	16.77
LOWER LIMIT	2234844	9.61	1810620	13.25	1089863	15.77
=====	=====	=====	=====	=====	=====	=====
LABORATORY SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 AV305	4007833	10.13	3341356	13.77	1951590	16.31
02 237825R1	1622330*	10.13	605602*	13.76	134557*	16.27
03 237826	1222155*	10.13	553663*	13.76	283836*	16.28
04 237827	1690524*	10.13	533955*	13.77	164734*	16.29
05 237828	1028534*	10.13	331212*	13.76	73552*	16.29
06 237829	1361771*	10.13	510009*	13.77	129244*	16.28
07 237825	4076808	10.13	2636727	13.75	885183*	16.28
08 237826R1	461213*	10.14	287901*	13.76	124817*	16.29
09 237827R1	2827710	10.16	1796197*	13.78	756557*	16.31
10 237828R1	1537724*	10.14	592130*	13.76	116210*	16.29
11 237829R1	2089661*	10.13	882879*	13.77	200298*	16.28
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 = Fluorobenzene

IS2 (CBZ) = Chlorobenzene-d5

IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab File ID (Standard): A10523

Date Analyzed: 11/01/00

Instrument ID: VOAMS1

Time Analyzed: 0828

		IS1 AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DCB) AREA #	RT #
	=====	=====	=====	=====	=====	=====	=====
	12 HOUR STD	4944139	10.11	3767459	13.75	2239884	16.29
	UPPER LIMIT	9888278	10.61	7534918	14.25	4479768	16.79
	LOWER LIMIT	2472070	9.61	1883730	13.25	1119942	15.79
	=====	=====	=====	=====	=====	=====	=====
	LABORATORY SAMPLE NO.						
	=====	=====	=====	=====	=====	=====	=====
01	AV306	5303267	10.11	4165146	13.74	2394184	16.27
02	237815MS	4980703	10.10	3379472	13.73	1326861	16.26
03	237815MSD	4946853	10.14	3370041	13.76	1370178	16.29
04							
05							
06							
07							
08							
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10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = Fluorobenzene

IS2 (CBZ) = Chlorobenzene-d5

IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab File ID (Standard): V22770

Date Analyzed: 10/30/00

Instrument ID: VOAMS7

Time Analyzed: 1045

	IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	736314	8.61	3025790	9.89	2018888	13.43
UPPER LIMIT	1472628	9.11	6051580	10.39	4037776	13.93
LOWER LIMIT	368157	8.11	1512895	9.39	1009444	12.93
=====	=====	=====	=====	=====	=====	=====
LABORATORY SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 VV304A	618003	8.61	2550600	9.88	1721419	13.43
02 237821	487281	8.64	1961341	9.90	1299676	13.45
03 237822	517387	8.63	2079420	9.90	1368383	13.45
04 237823	481515	8.64	1946062	9.90	1265626	13.45
05 237824	478894	8.64	1932157	9.92	1272985	13.45
06 237830	485895	8.63	1958842	9.91	1280796	13.45
07 237831	486754	8.65	1970343	9.91	1297729	13.45
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

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

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.



STL Edison

Job No. F104 - Envision Environmental, Inc. - Rexam DSI

VOLUME 2

GC/MS Forms and Data (Semivolatiles)

Client ID: EB-1 6-12
Site: Rexam DSI

Lab Sample No: 237812
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/30/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: 13255.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 15

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
N-Nitrosodimethylamine	ND	390
bis(2-Chloroethyl) ether	ND	39
1,3-Dichlorobenzene	ND	390
1,4-Dichlorobenzene	ND	390
1,2-Dichlorobenzene	ND	390
bis(2-chloroisopropyl) ether	ND	390
N-Nitroso-di-n-propylamine	ND	39
Hexachloroethane	ND	39
Nitrobenzene	ND	39
Isophorone	ND	390
bis(2-Chloroethoxy) methane	ND	390
1,2,4-Trichlorobenzene	ND	39
Naphthalene	ND	390
Hexachlorobutadiene	ND	78
Hexachlorocyclopentadiene	ND	390
2-Chloronaphthalene	ND	390
Dimethylphthalate	ND	390
Acenaphthylene	ND	390
2,6-Dinitrotoluene	ND	78
Acenaphthene	ND	390
2,4-Dinitrotoluene	ND	78
Diethylphthalate	ND	390
4-Chlorophenyl-phenylether	ND	390
Fluorene	ND	390
N-Nitrosodiphenylamine	ND	390
4-Bromophenyl-phenylether	ND	390
Hexachlorobenzene	ND	39
Phenanthrene	63 J	390
Anthracene	ND	390
Di-n-butylphthalate	ND	390
Fluoranthene	42 J	390
Pyrene	43 J	390
Benzidine	ND	1600
Butylbenzylphthalate	ND	390

Client ID: EB-16-12
Site: Rexam DSI

Lab Sample No: 237812
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/30/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: 13255.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 15

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
3,3'-Dichlorobenzidine	ND	780
Benzo(a)anthracene	ND	39
Chrysene	70 J	390
bis(2-Ethylhexyl)phthalate	ND	390
Di-n-octylphthalate	ND	390
Benzo(b)fluoranthene	30 J	39
Benzo(k)fluoranthene	ND	39
Benzo(a)pyrene	8.8J	39
Indeno(1,2,3-cd)pyrene	ND	39
Dibenz(a,h)anthracene	ND	39
Benzo(g,h,i)perylene	8.9J	390

Client ID: EB-1_6-12
Site: Rexam DSI

Lab Sample No: 237812
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/30/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: 13255.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 15.0

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. C16H14 PAH	22.52	400	
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

400

Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13255.d
Report Date: 31-Oct-2000 09:34

STL Edison

SEMI-VOLATILE ORGANIC COMPOUND ANALYSIS
Data file : /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13255.d
Lab Smp Id: 237812 Client Smp ID: EB-1_6-12
Inj Date : 30-OCT-2000 20:15
Operator : BNAMS 4 Inst ID: BNAMS7.i
Smp Info : 237812;30;2;1;15
Misc Info : F104;PPBN+15;6924;114
Comment :
Method : /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/8270C1.m
Meth Date : 30-Oct-2000 15:17 acierno Quant Type: ISTD
Cal Date : 27-OCT-2000 12:29 Cal File: 13224.d
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 3.50
Processing Host: hpd1

Compound Sublist: PPBNb.sub

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * 1000 * \text{Vt} / (\text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	2.00000	Volume of final extract (ml)
Ws	30.00000	Weight of sample extracted (g)
M	15.00000	% Moisture

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 79 1,4-Dichlorobenzene-d4	152	13.181	13.186	(1.000)	320707	40.0000		
\$ 76 Nitrobenzene-d5 (SUR)	82	14.132	14.147	(0.920)	638904	47.6735	3700	
* 80 Naphthalene-d8	136	15.359	15.374	(1.000)	1295621	40.0000		
\$ 77 2-Fluorobiphenyl (SUR)	172	17.148	17.164	(0.937)	975156	46.2282	3600	
* 82 Acenaphthene-d10	164	18.293	18.309	(1.000)	775901	40.0000		
* 83 Phenanthrene-d10	188	20.778	20.794	(1.000)	1433062	40.0000		
52 Phenanthrene	178	20.809	20.834	(1.001)	28143	0.80233	63 (a)	
56 Fluoranthene	202	22.792	22.818	(1.097)	19869	0.53141	42 (a)	
57 Pyrene	202	23.171	23.196	(0.918)	19977	0.54509	43 (a)	
\$ 78 Terphenyl-d14 (SUR)	244	23.406	23.411	(0.927)	1388212	49.3672	3900	
* 81 Chrysene-d12	240	25.246	25.282	(1.000)	1384323	40.0000		
62 Chrysene	228	25.287	25.333	(1.002)	29789	0.88996	70 (a)	
65 Benzo(b)fluoranthene	252	27.772	27.839	(0.957)	12527	0.38795	30 (a)	

Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/l3255.d
Report Date: 31-Oct-2000 09:34

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
	MASS					ON-COLUMN	FINAL
=====	=====	==	=====	=====	=====	(ug/ml)	(ug/Kg)
67 Benzo(a)pyrene	252	28.795	28.882	(0.992)	3601	0.11263	8.8(a)
* 84 Perylene-d12	264	29.030	29.066	(1.000)	1240547	40.0000	
70 Benzo(g,h,i)perylene	276	34.848	35.047	(1.200)	3549	0.11328	8.9(aM)

QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- M - Compound response manually integrated.

Data File: /chem/BNHHS7.i/8270/10-27-00/30oct00A.b/13255.d

Date : 30-OCT-2000 20:15

Client ID: EB-1-6-12

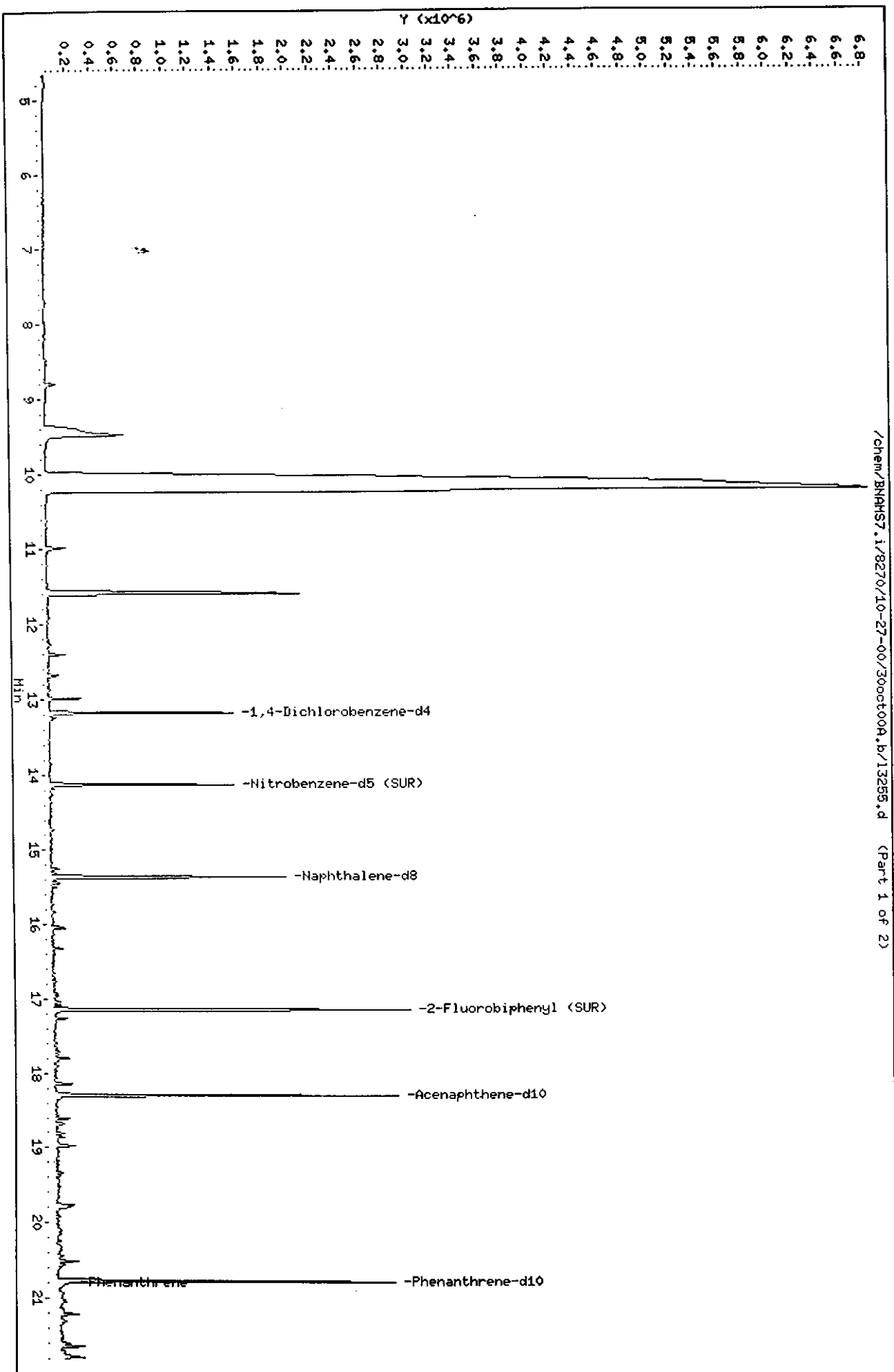
Sample Info: 237812;30;2;1;15

Column phase: DB-5

Instrument: BNHHS7.i

Operator: BNHHS 4

Column diameter: 0.25



Data File: /chem/BNHMS7.1/8270/10-27-00/30oct00A.b/13255.d

Date : 30-OCT-2000 20:15

Client ID: EB-1-6-12

Sample Info: 237812;30;2;1;15

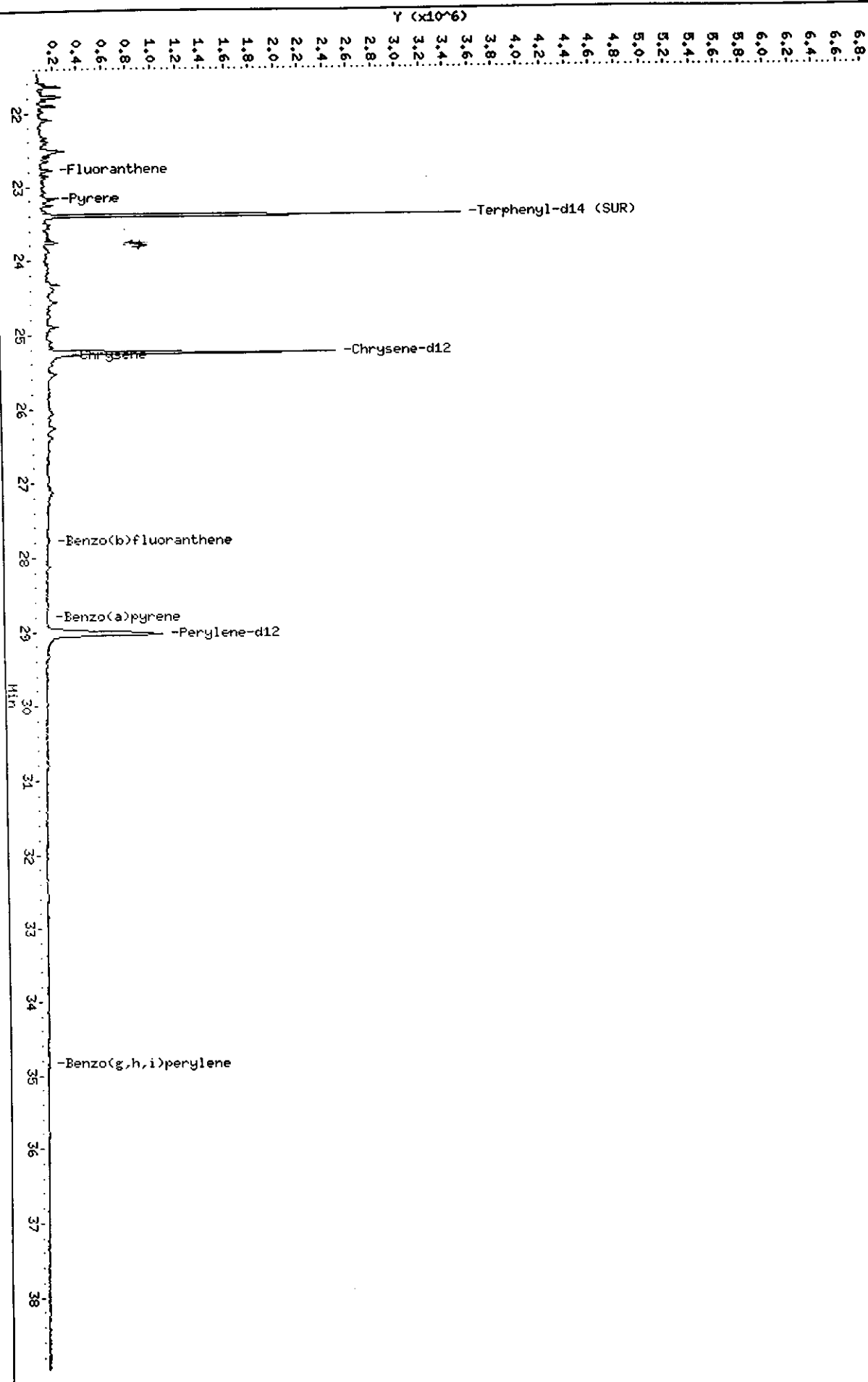
Column phase: DB-5

Instrument: BNHMS7.1

Operator: BNHMS 4

Column diameter: 0.25

/chem/BNHMS7.1/8270/10-27-00/30oct00A.b/13255.d (Part 2 of 2)



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13255.d

Date : 30-OCT-2000 20:15

Client ID: EB-1_6-12

Instrument: BNAMS7.i

Sample Info: 237812;30;2;1;15

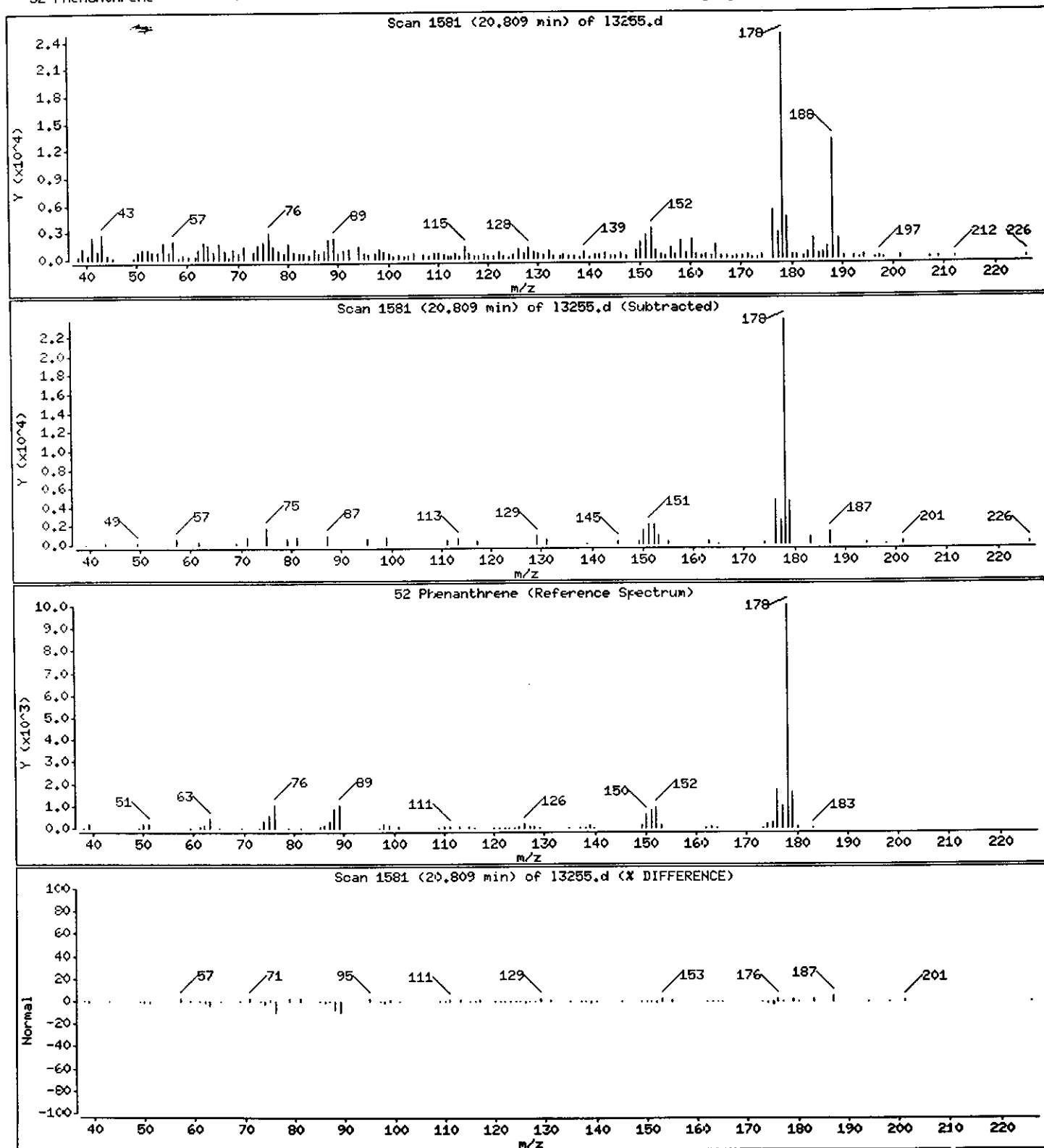
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

52 Phenanthrene

Concentration: 63 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13255.d

Date : 30-OCT-2000 20:15

Client ID: EB-1.6-12

Instrument: BNAMS7.i

Sample Info: 237812;30;2;1;15

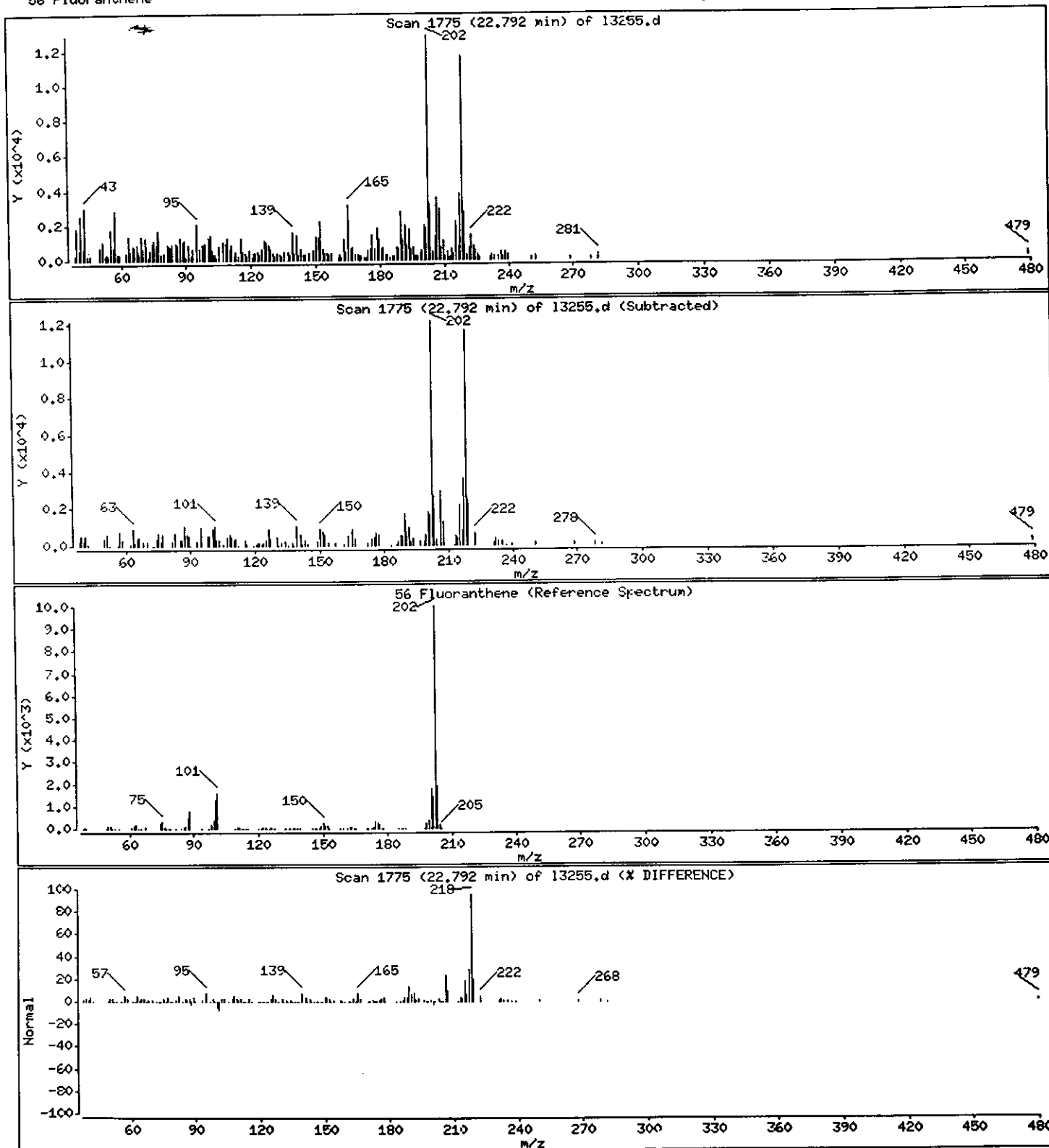
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

56 Fluoranthene

Concentration: 42 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13255.d

Date : 30-OCT-2000 20:15

Client ID: EB-1.6-12

Sample Info: 237812;30;2;1;15

Instrument: BNAMS7.i

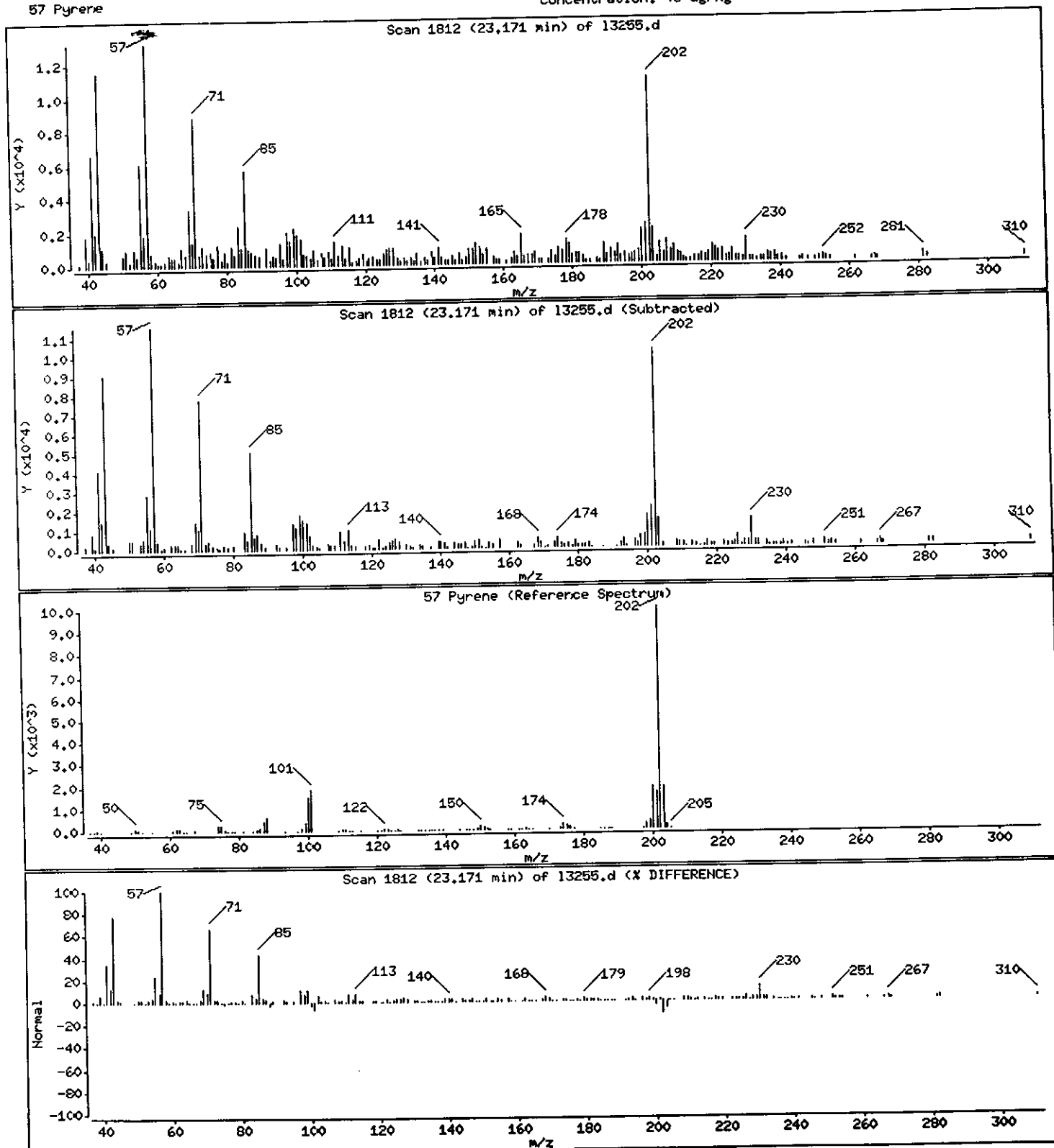
Operator: BNAMS 4

Column diameter: 0.25

Column phase: DB-5

Concentration: 43 ug/Kg

57 Pyrene



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13255.d

Date : 30-OCT-2000 20:15

Client ID: EB-1_6-12

Sample Info: 237812;30;2;1;15

Instrument: BNAMS7.i

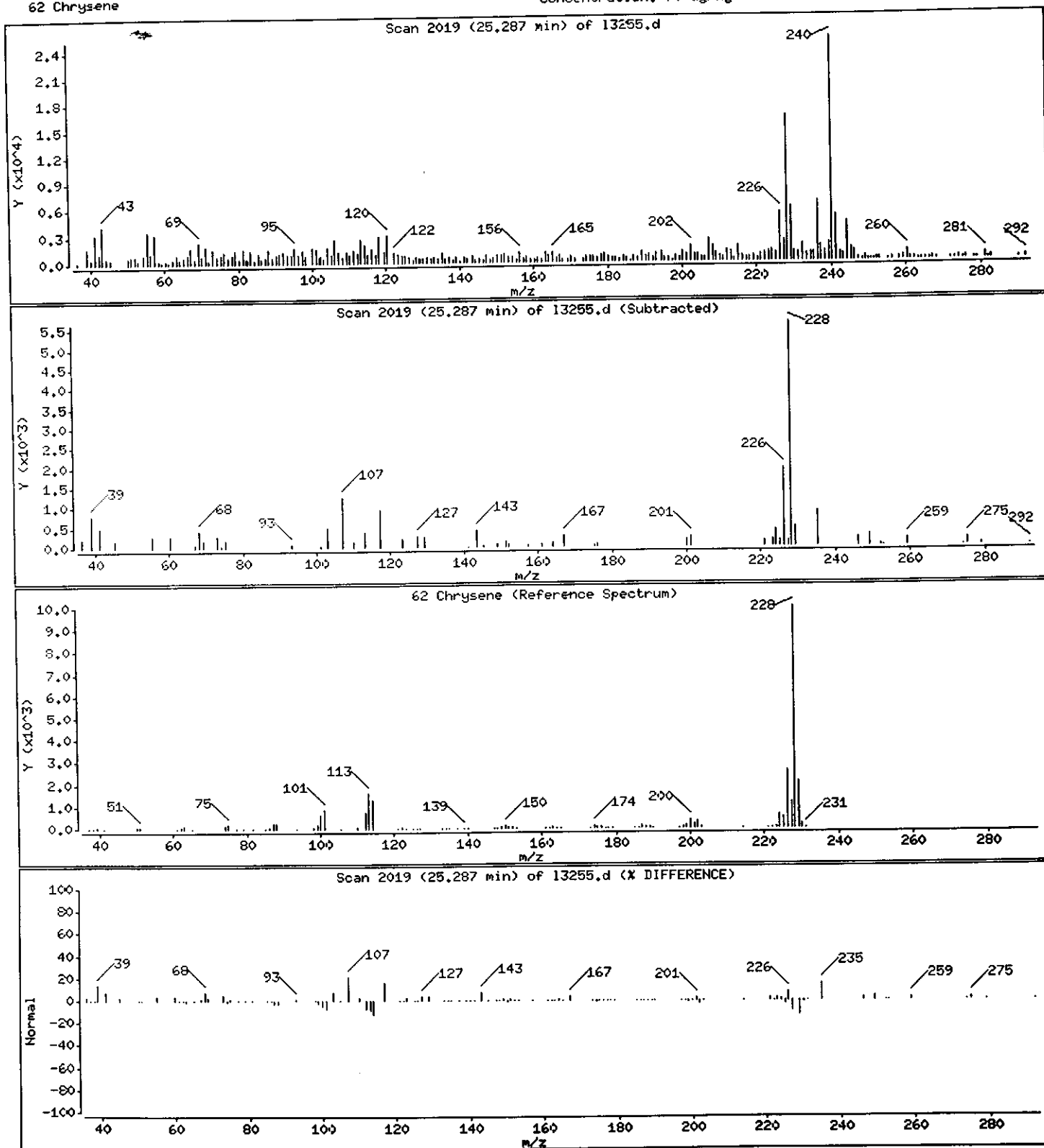
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Concentration: 70 ug/Kg

62 Chrysene



Data File: /chem/BNHMS7.i/8270/10-27-00/30oct00A.b/13255.d

Date : 30-OCT-2000 20:15

Client ID: EB-1_6-12

Sample Info: 237812;30;2;1;15

Instrument: BNHMS7.i

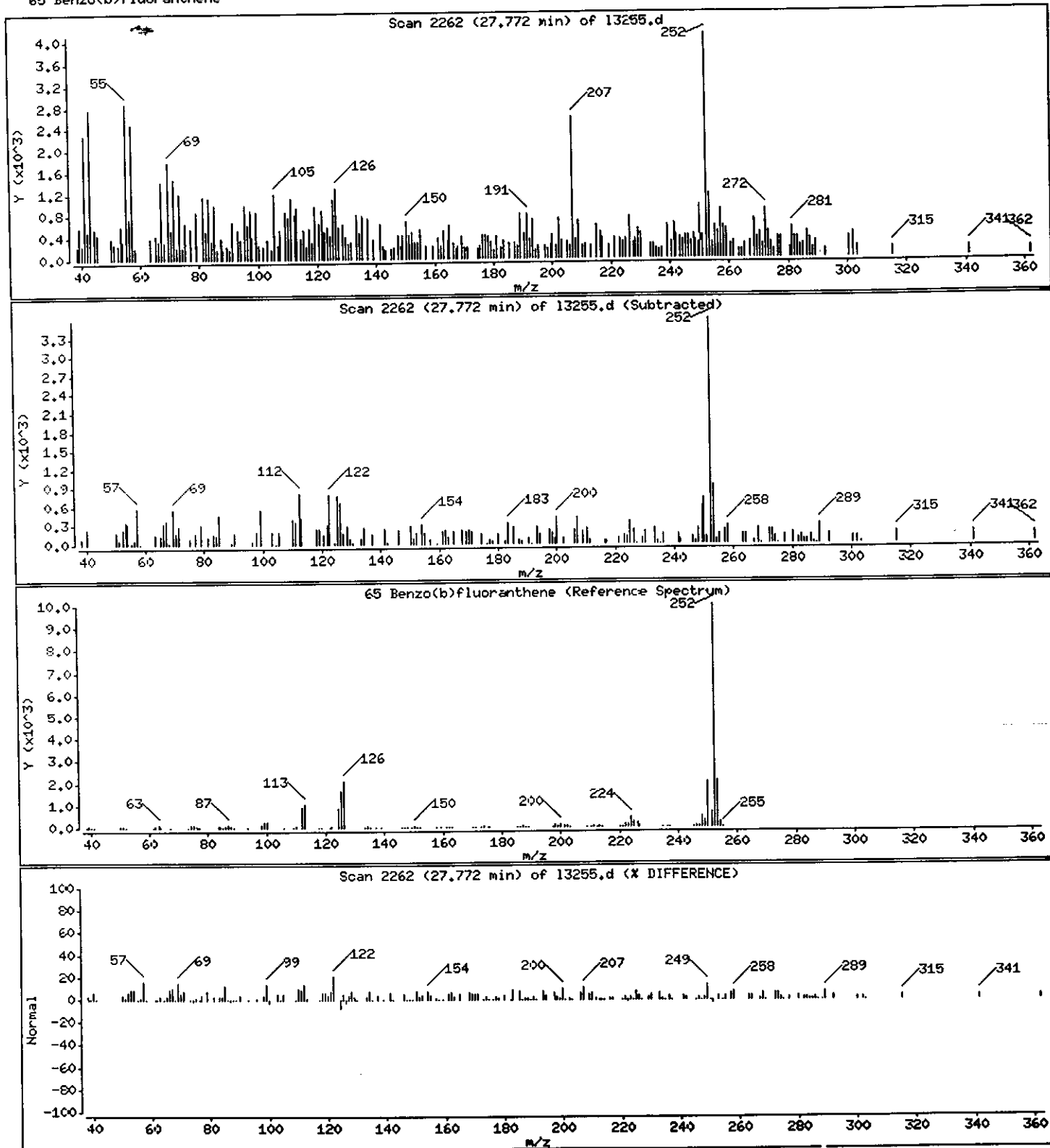
Operator: BNHMS 4

Column diameter: 0.25

Column phase: DB-5

Concentration: 30 ug/Kg

65 Benzo(b)fluoranthene



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13255.d

Date : 30-OCT-2000 20:15

Client ID: EB-1_6-12

Sample Info: 237812;30;2;1;15

Instrument: BNAMS7.i

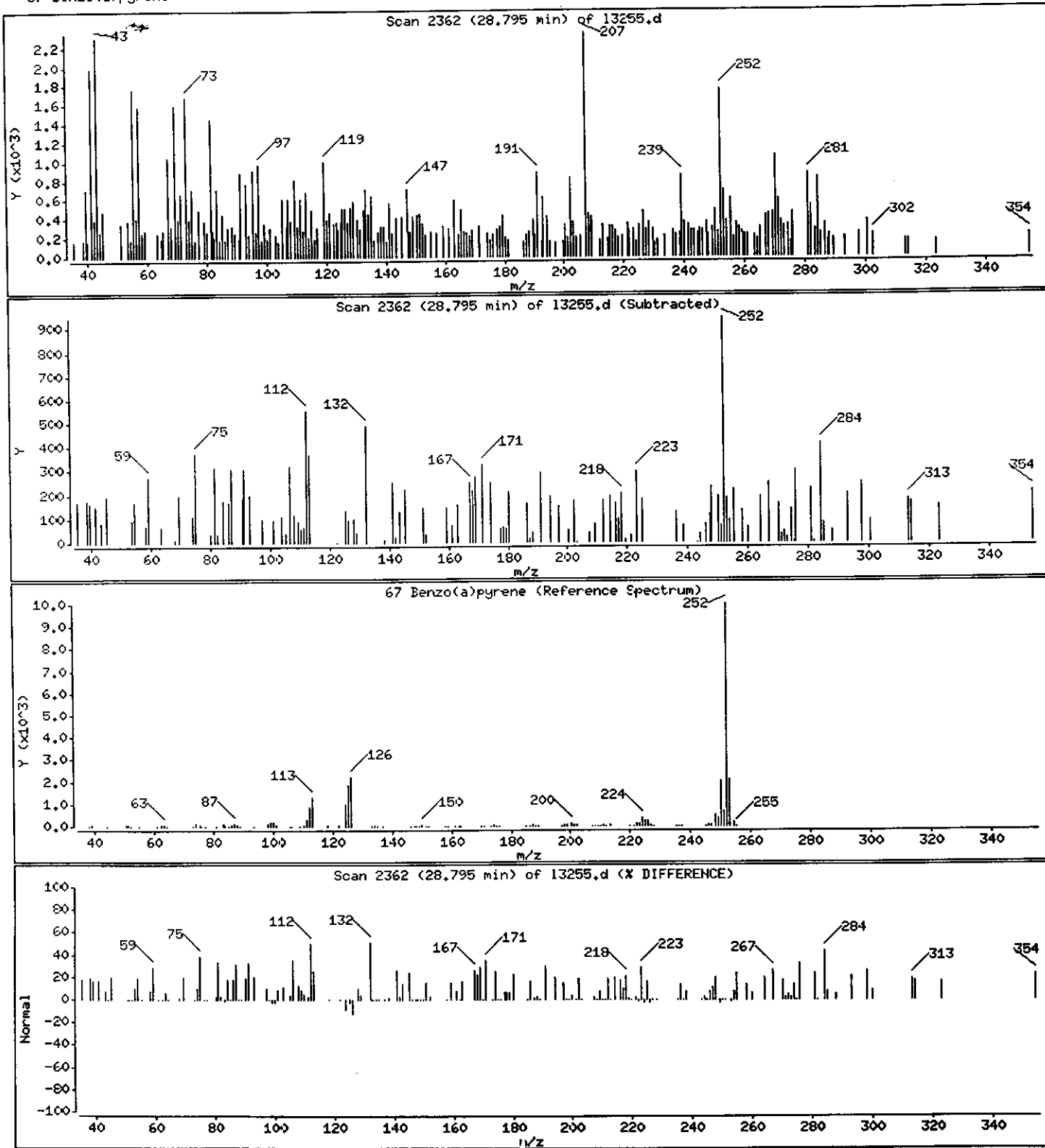
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

67 Benzo(a)pyrene

Concentration: 8.8 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13255.d

Date : 30-OCT-2000 20:15

Client ID: EB-1_6-12

Sample Info: 237812;30;2;1;15

Instrument: BNAMS7.i

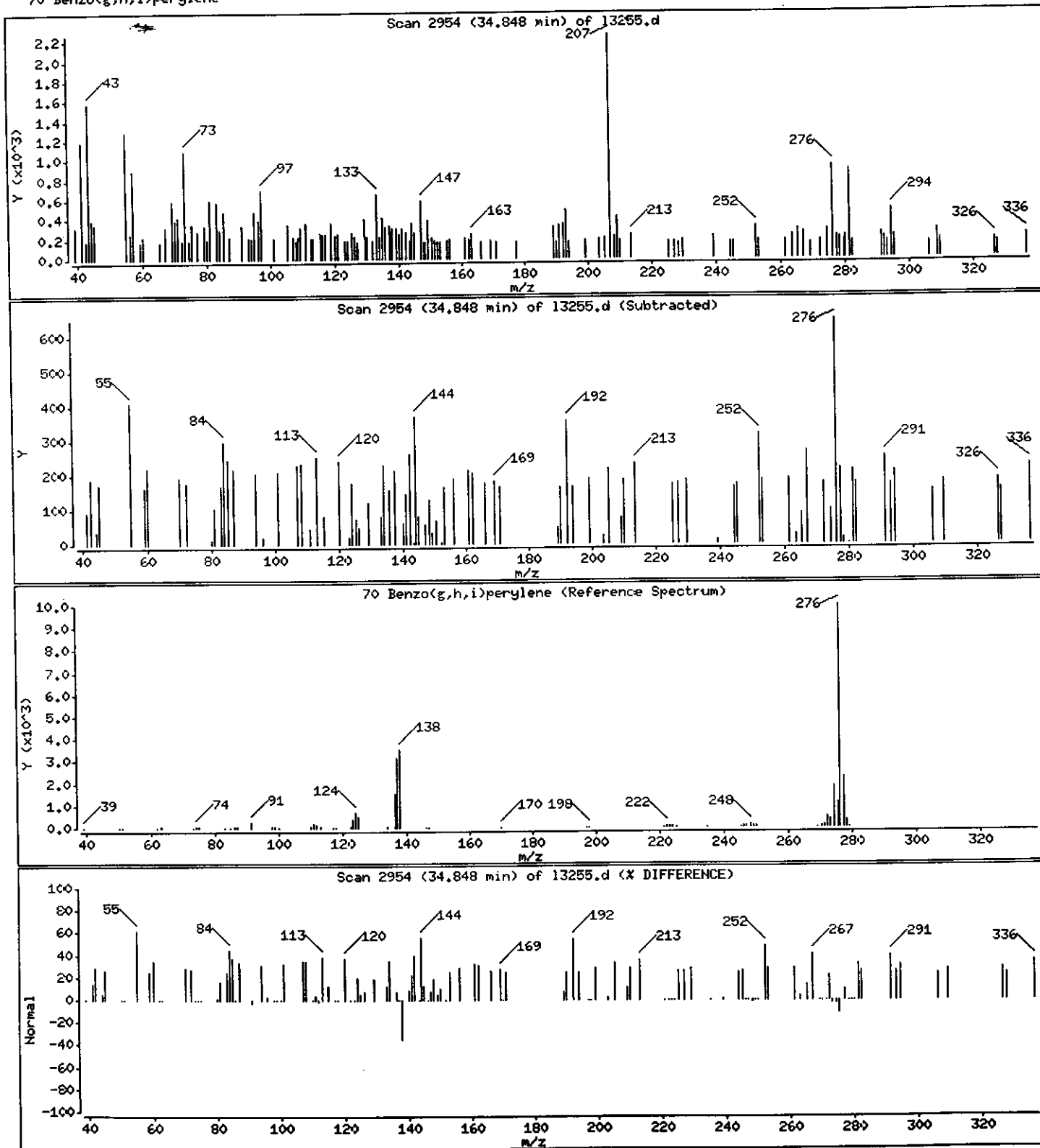
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

70 Benzo(g,h,i)perylene

Concentration: 8.9 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13255.d

Date : 30-OCT-2000 20:15

Client ID: EB-1_6-12

Instrument: BNAMS7.i

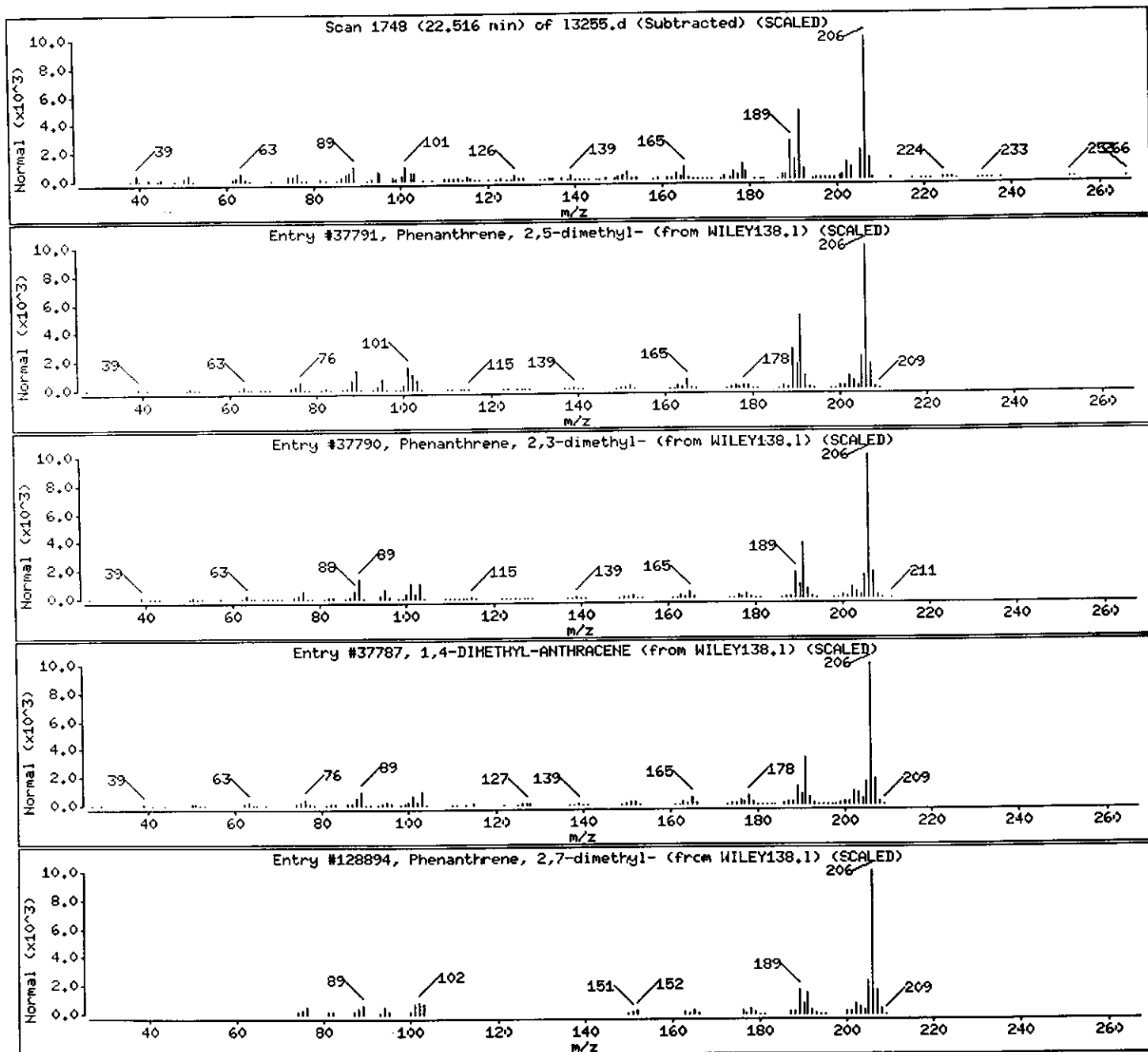
Sample Info: 237812;30;2;1;15

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
C16H14 PAH						
Phenanthrene, 2,5-dimethyl-	3674-66-6	WILEY138.1	37791	93	C16H14	206
Phenanthrene, 2,3-dimethyl-	3674-65-5	WILEY138.1	37790	93	C16H14	206
1,4-DIMETHYL-ANTHRACENE	0-00-0	WILEY138.1	37787	91	C16H14	206
Phenanthrene, 2,7-dimethyl-	1576-69-8	WILEY138.1	128894	90	C16H14	206



Client ID: EB-2_Catch_Basin
Site: Rexam DSI

Lab Sample No: 237813
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/30/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: 13259.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 16

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u> <u>Units: ug/kg</u>
N-Nitrosodimethylamine	ND		400
bis(2-Chloroethyl) ether	ND		40
1,3-Dichlorobenzene	ND		400
1,4-Dichlorobenzene	ND		400
1,2-Dichlorobenzene	ND		400
bis(2-chloroisopropyl) ether	ND		400
N-Nitroso-di-n-propylamine	ND		40
Hexachloroethane	ND		40
Nitrobenzene	ND		40
Isophorone	ND		400
bis(2-Chloroethoxy) methane	ND		400
1,2,4-Trichlorobenzene	ND		40
Naphthalene	ND		400
Hexachlorobutadiene	ND		80
Hexachlorocyclopentadiene	ND		400
2-Chloronaphthalene	ND		400
Dimethylphthalate	ND		400
Acenaphthylene	12 J		400
2,6-Dinitrotoluene	ND		80
Acenaphthene	12 J		400
2,4-Dinitrotoluene	ND		80
Diethylphthalate	ND		400
4-Chlorophenyl-phenylether	ND		400
Fluorene	23 J		400
N-Nitrosodiphenylamine	ND		400
4-Bromophenyl-phenylether	ND		400
Hexachlorobenzene	ND		40
Phenanthrene	160 J		400
Anthracene	31 J		400
Di-n-butylphthalate	95 J		400
Fluoranthene	350 J		400
Pyrene	360 J		400
Benzidine	ND		1600
Butylbenzylphthalate	ND		400

Client ID: EB-2_Catch_Basin
Site: Rexam DSI

Lab Sample No: 237813
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/30/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: 13259.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 16

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u> <u>Units: ug/kg</u>
3,3'-Dichlorobenzidine	ND		800
Benzo(a)anthracene	160		40
Chrysene	300 J		400
bis(2-Ethylhexyl)phthalate	450		400
Di-n-octylphthalate	280 J		400
Benzo(b)fluoranthene	380		40
Benzo(k)fluoranthene	200		40
Benzo(a)pyrene	160		40
Indeno(1,2,3-cd)pyrene	68		40
Dibenz(a,h)anthracene	ND		40
Benzo(g,h,i)perylene	69 J		400

Client ID: EB-2_Catch_Basin
 Site: Rexam DSI

Lab Sample No: 237813
 Lab Job No: F104

Date Sampled: 10/25/00
 Date Received: 10/27/00
 Date Extracted: 10/28/00
 Date Analyzed: 10/30/00
 GC Column: DB-5
 Instrument ID: BNAMS7.i
 Lab File ID: 13259.d

Matrix: SOIL
 Level: LOW
 Sample Weight: 30.0 g
 Extract Final Volume: 2.0 ml
 Dilution Factor: 1.0
 % Moisture: 16.3

SEMI-VOLATILE ORGANICS - GC/MS
 TENTATIVELY IDENTIFIED COMPOUNDS
 METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. Unknown Alkane	22.66	4100	
2. Unknown Alkane	24.39	7000	
3. Unknown	24.39	8000	
4. Unknown Alkane	24.92	3900	
5. Unknown Alkane	26.32	7500	
6. Unknown	27.37	7400	
7. Unknown	27.58	7400	
8. Unknown Alkane	28.22	17000	
9. Unknown	30.07	8900	
10. Unknown Alkane	30.95	16000	
11. Vitamin E	31.68	11000	
12. Unknown Alkane/Unknown	33.39	14000	
13. .beta.-Amyrin	37.32	7400	
14. Unknown	37.54	5600	
15. Unknown	38.61	12000	
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

137200

Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/l3259.d
Report Date: 31-Oct-2000 09:35

STL Edison

SEMI-VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/l3259.d
Lab Smp Id: 237813 Client Smp ID: EB-2_Catch_Basin
Inj Date : 30-OCT-2000 23:29
Operator : BNAMS 4 Inst ID: BNAMS7.i
Smp Info : 237813;30;2;1;16.3
Misc Info : F104;PPBN+15;6924;114
Comment :
Method : /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/8270C1.m
Meth Date : 30-Oct-2000 15:17 acierno Quant Type: ISTD
Cal Date : 27-OCT-2000 12:29 Cal File: l3224.d
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 3.50
Processing Host: hpd1

Compound Sublist: PPBNb.sub

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * 1000 * \text{Vt} / (\text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	2.00000	Volume of final extract (ml)
Ws	30.00000	Weight of sample extracted (g)
M	16.30000	% Moisture

Cpnd Variable

Local Compound Variable

Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
						(ug/ml)	(ug/Kg)
* 79 1,4-Dichlorobenzene-d4	152	13.187	13.186	(1.000)	356459	40.0000	
\$ 76 Nitrobenzene-d5 (SUR)	82	14.138	14.147	(0.920)	735199	47.6201	3800
* 80 Naphthalene-d8	136	15.365	15.374	(1.000)	1492568	40.0000	
\$ 77 2-Fluorobiphenyl (SUR)	172	17.154	17.164	(0.937)	1140241	50.1030	4000
39 Acenaphthylene	152	18.064	18.074	(0.987)	5233	0.14565	12(a)
* 82 Acenaphthene-d10	164	18.300	18.309	(1.000)	837090	40.0000	
42 Acenaphthene	153	18.351	18.370	(1.003)	3403	0.15102	12(a)
47 Fluorene	166	19.189	19.229	(1.049)	7307	0.28986	23(a)
* 83 Phenanthrene-d10	188	20.784	20.794	(1.000)	1435903	40.0000	
52 Phenanthrene	178	20.815	20.834	(1.001)	73090	2.07960	160(a)
53 Anthracene	178	20.897	20.926	(1.005)	14007	0.39494	31(a)
55 Di-n-butylphthalate	149	21.684	21.693	(1.043)	66926	1.19674	95(a)
56 Fluoranthene	202	22.799	22.818	(1.097)	166410	4.44194	350(a)

Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/l3259.d
 Report Date: 31-Oct-2000 09:35

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ug/ml)	(ug/Kg)
-----	----	----	==	=====	=====	-----	-----	-----
57 Pyrene		202	23.177	23.196	(0.917)	156439	4.55811	360 (a)
\$ 78 Terphenyl-d14 (SUR)		244	23.412	23.411	(0.927)	1399071	53.1283	4200
63 bis(2-Ethylhexyl)phthalate		149	25.181	25.180	(0.997)	185558	5.60998	450
61 Benzo(a)anthracene		228	25.242	25.252	(0.999)	68083	2.01643	160
* 81 Chrysene-d12		240	25.263	25.282	(1.000)	1296384	40.0000	
62 Chrysene		228	25.304	25.333	(1.002)	117892	3.76098	300 (a)
64 Di-n-octylphthalate		149	26.725	26.632	(0.919)	157674	3.50837	280 (a)
65 Benzo(b)fluoranthene		252	27.819	27.839	(0.957)	105197	4.84088	380 (M)
66 Benzo(k)fluoranthene		252	27.860	27.931	(0.958)	63685	2.45815	200 (M)
67 Benzo(a)pyrene		252	28.852	28.882	(0.993)	44556	2.07072	160 (M)
* 84 Perylene-d12		264	29.067	29.066	(1.000)	834873	40.0000	
68 Indeno(1,2,3-cd)pyrene		276	33.545	33.595	(1.154)	17662	0.85202	68 (M)
70 Benzo(g,h,i)perylene		276	34.966	35.047	(1.203)	18191	0.86279	69 (aM)

QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- M - Compound response manually integrated.

Data File: /chem/BNHHS7.i/8270/10-27-00/30oct00a.b/13259.d

Date : 30-OCT-2000 23:29

Client ID: EB-2_Catch_Basin

Sample Info: 237813;30;2;1;16.3

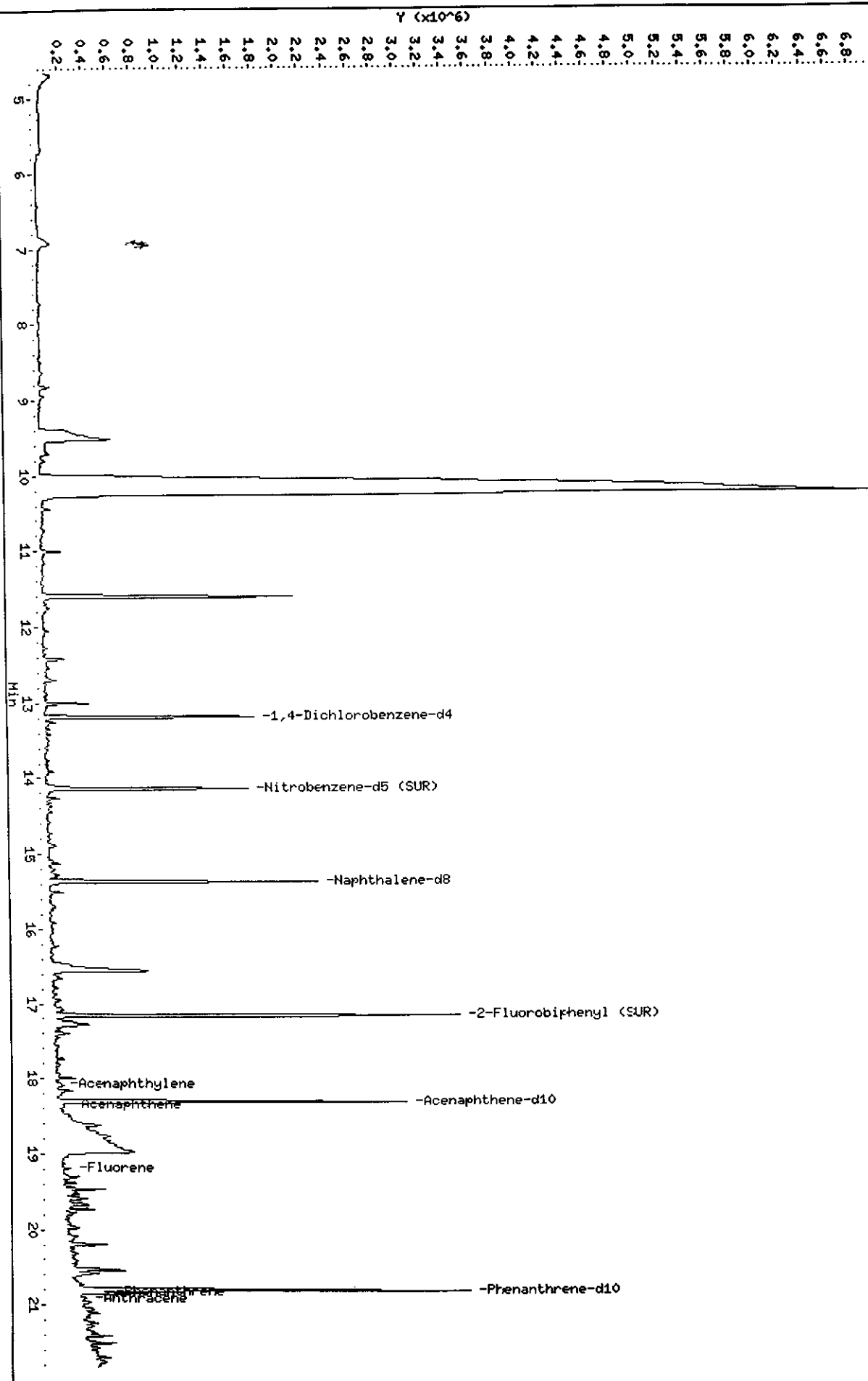
Column phase: DB-5

Instrument: BNHHS7.i

Operator: BNHHS 4

Column diameter: 0.25

/chem/BNHHS7.i/8270/10-27-00/30oct00a.b/13259.d (Part 1 of 2)



Date File: /chem/BNHHS7.i/8270/10-27-00/30oct00a.b/13259.d

Date: 30-OCT-2000 23:29

Client ID: EB-2_Catch_Basin

Sample Info: 23781330;27116.3

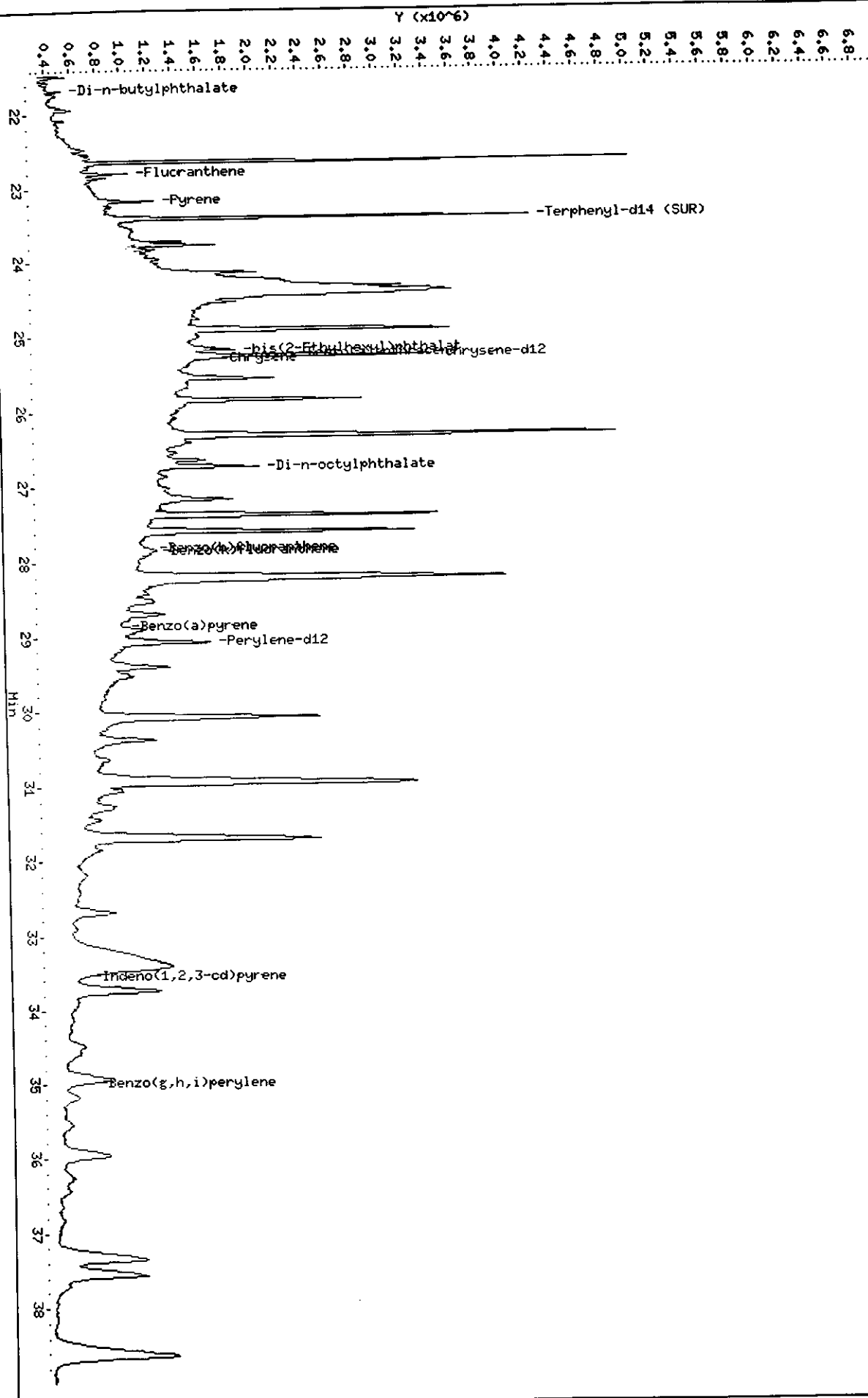
Column phase: DB-5

Instrument: BNHHS7.i

Operator: BNHHS 4

Column diameter: 0.25

/chem/BNHHS7.i/8270/10-27-00/30oct00a.b/13259.d (Part 2 of 2)



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13259.d

Date : 30-OCT-2000 23:29

Client ID: EB-2_Catch_Basin

Sample Info: 237813;30;2;1;16.3

Instrument: BNAMS7.i

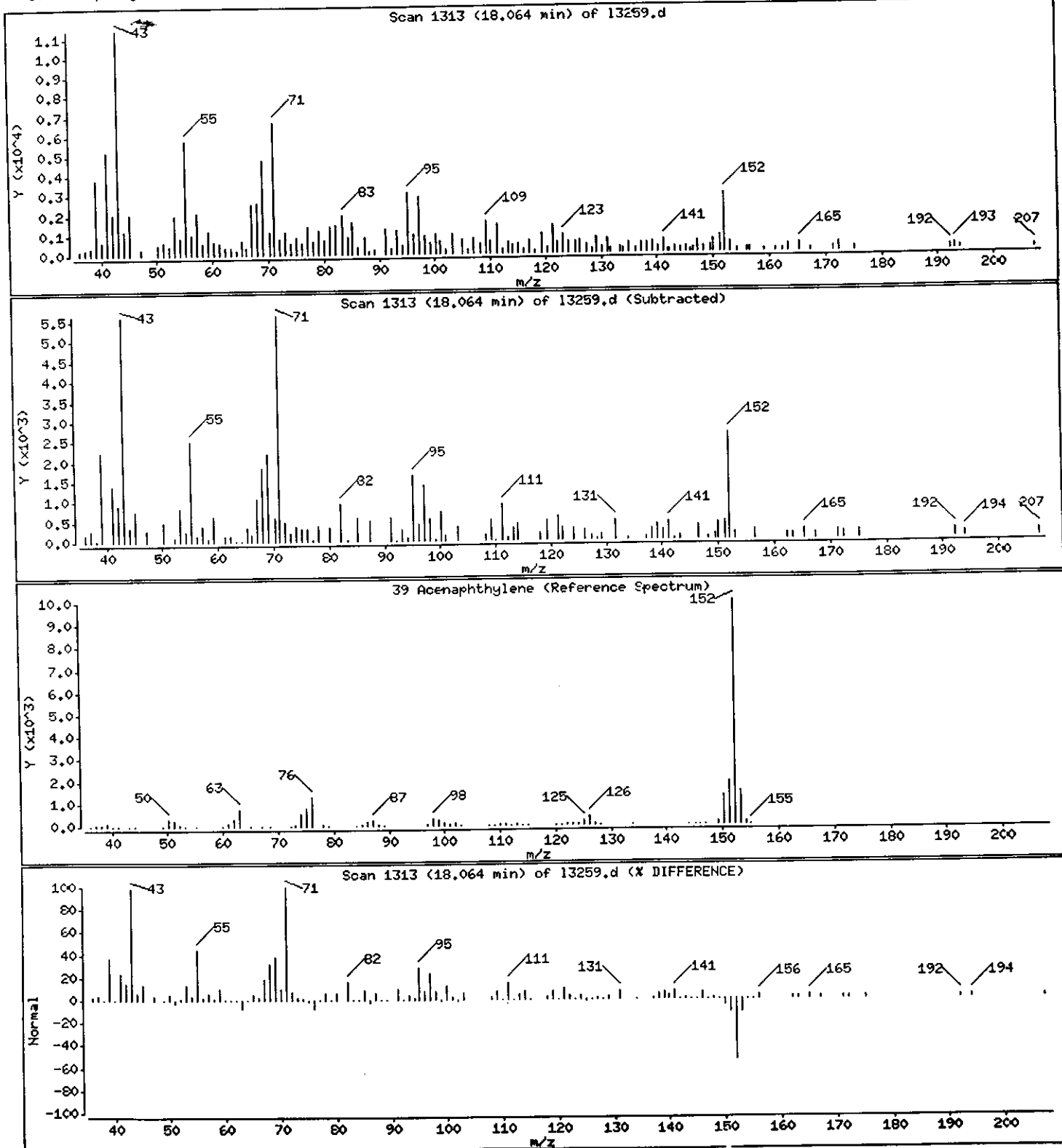
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Concentration: 12 ug/Kg

39 Acenaphthylene



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13259.d

Date : 30-OCT-2000 23:29

Client ID: EB-2_Catch_Basin

Instrument: BNAMS7.i

Sample Info: 237813;30;2;1;16.3

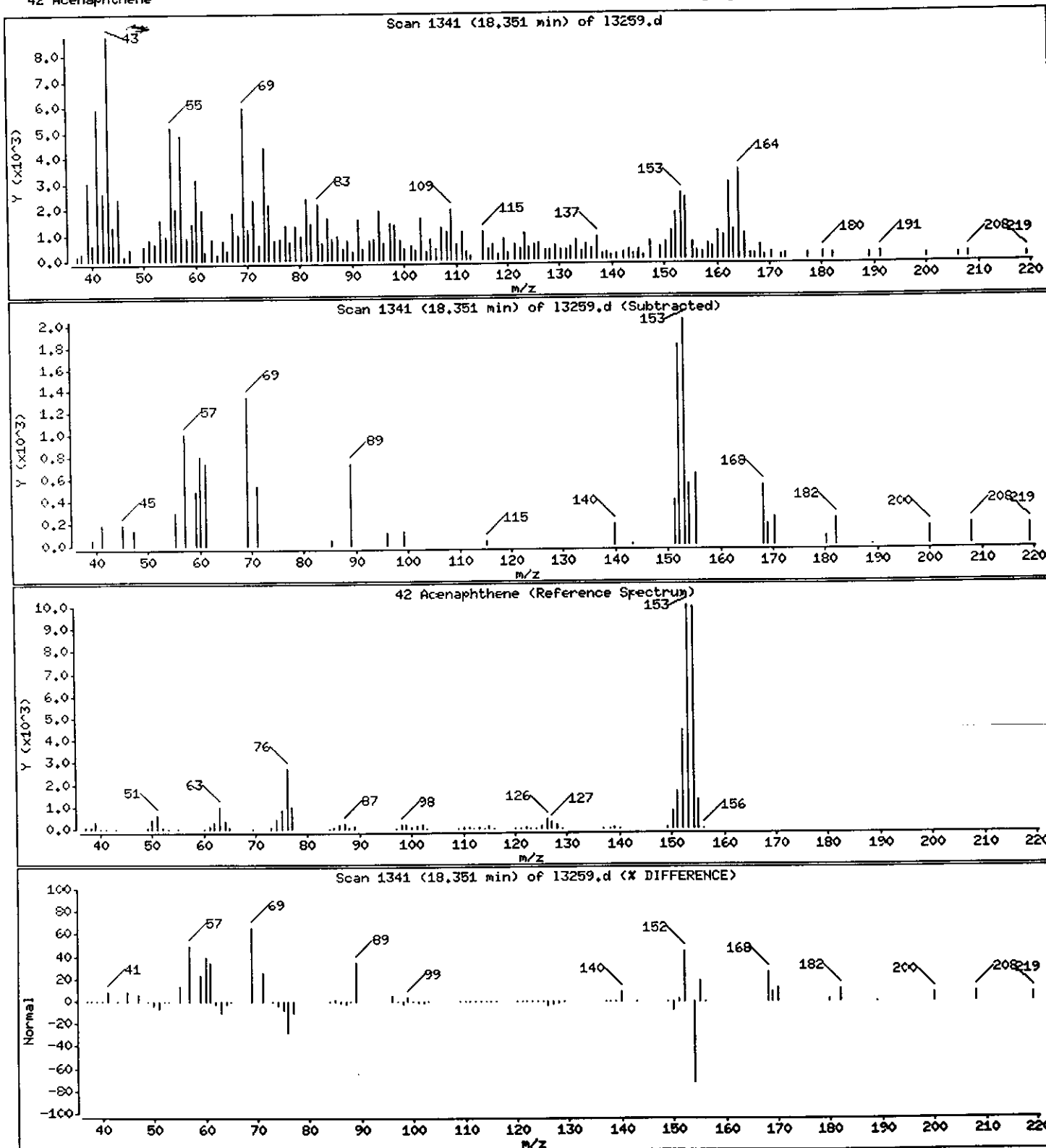
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

42 Acenaphthene

Concentration: 12 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13259.d

Date : 30-OCT-2000 23:29

Client ID: EB-2_Catch_Basin

Instrument: BNAMS7.i

Sample Info: 237813;30;2;1;16.3

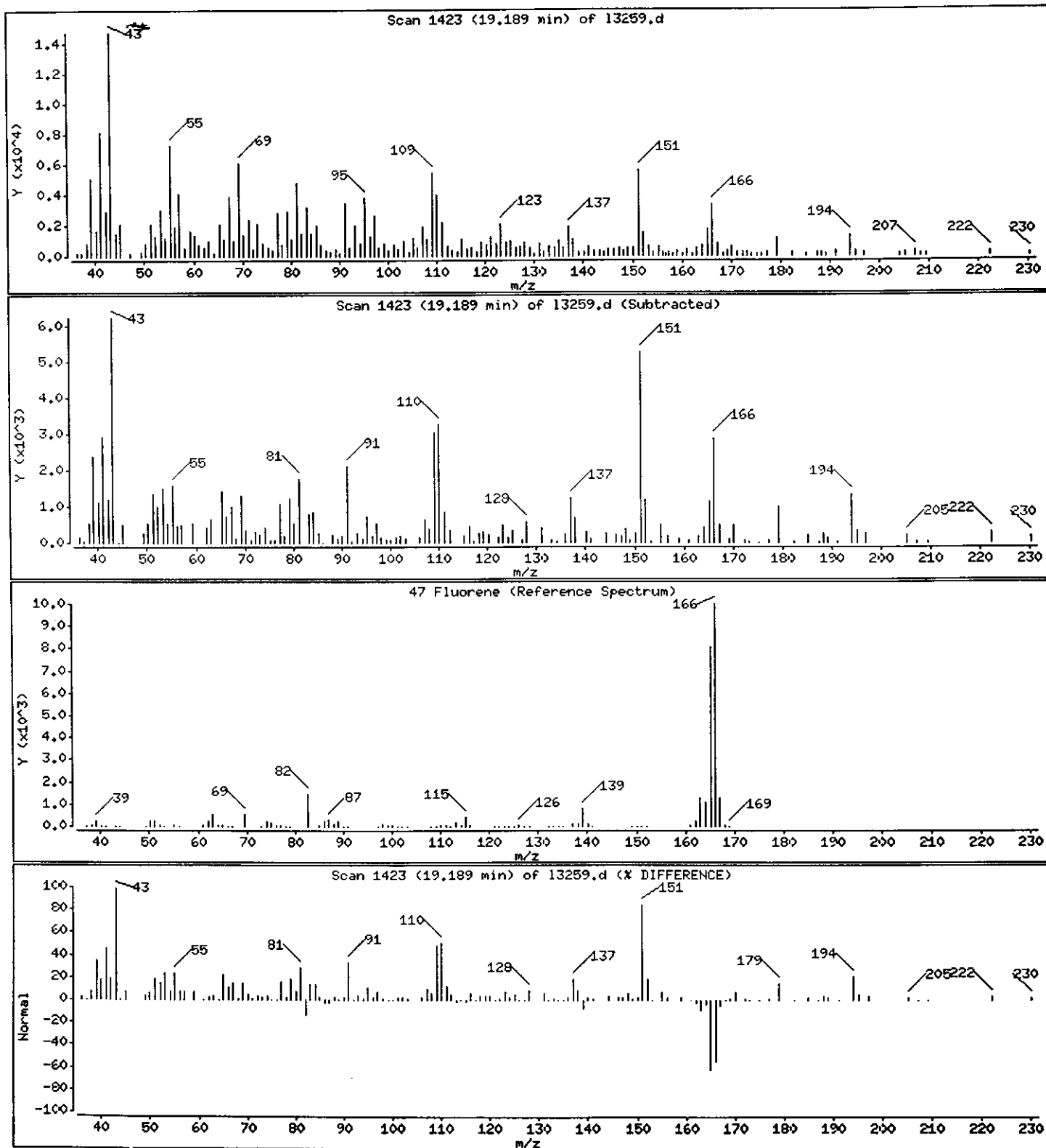
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

47 Fluorene

Concentration: 23 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13259.d

Date : 30-OCT-2000 23:29

Client ID: EB-2_Catch_Basin

Instrument: INAMS7.1

Sample Info: 237813;30;2;1;16.3

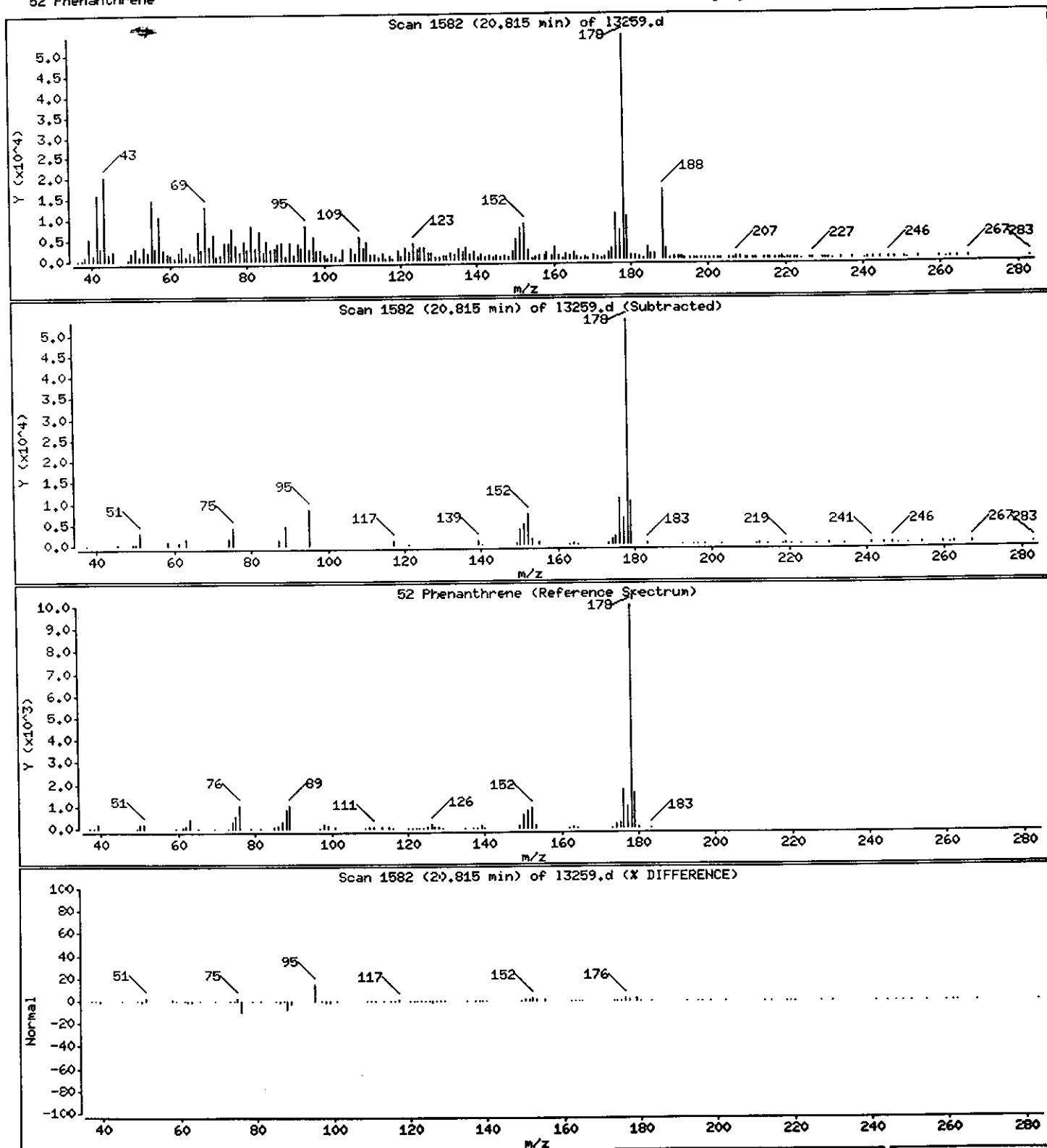
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

52 Phenanthrene

Concentration: 160 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13259.d

Date : 30-OCT-2000 23:29

Client ID: EB-2_Catch_Basin

Sample Info: 237813;30;2;1;16.3

Instrument: BNAMS7.i

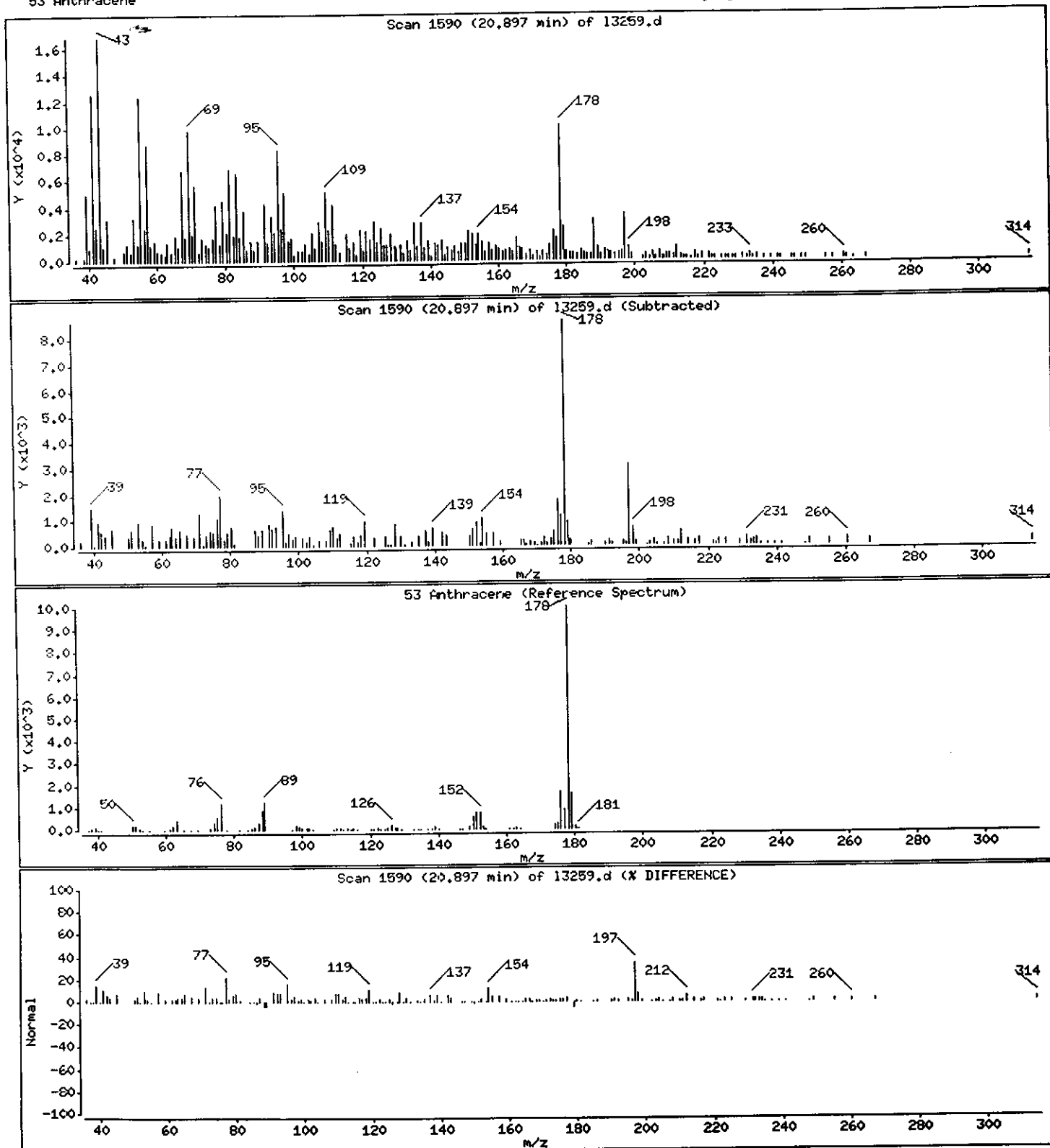
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

53 Anthracene

Concentration: 31 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13259.d

Date : 30-OCT-2000 23:29

Client ID: EB-2_Catch_Basin

Sample Info: 237813;30;2;1;16.3

Instrument: BNAMS7.i

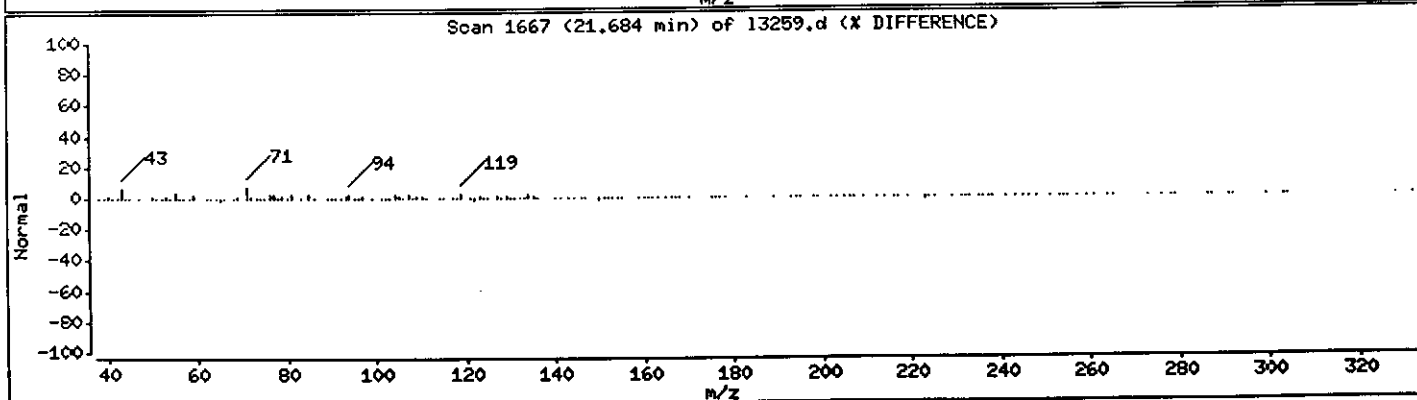
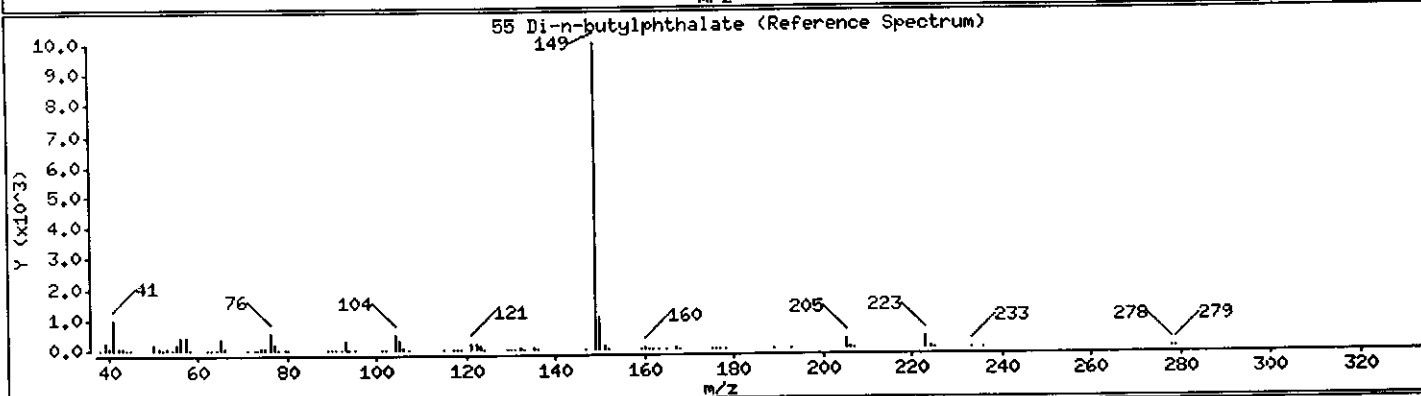
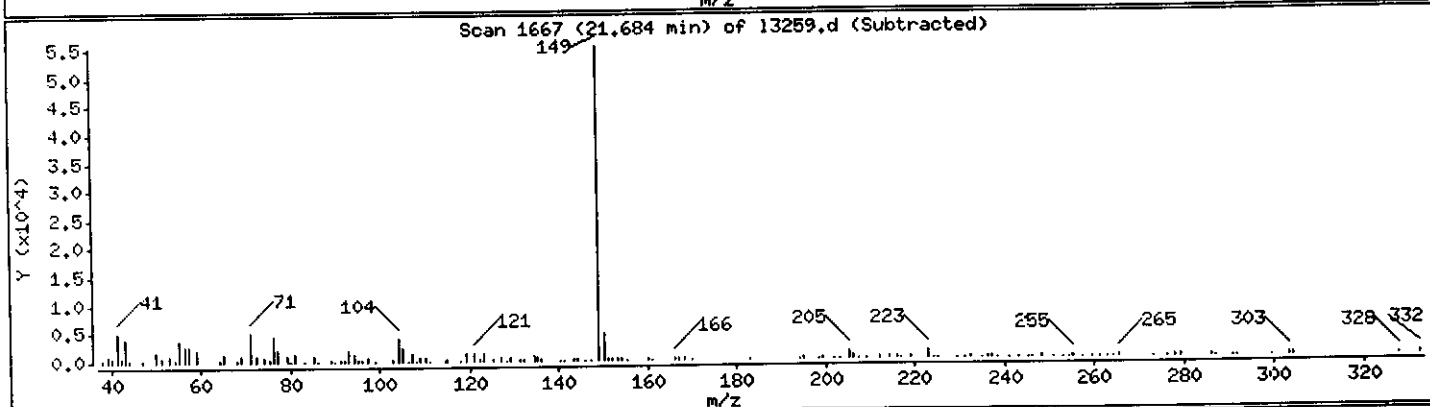
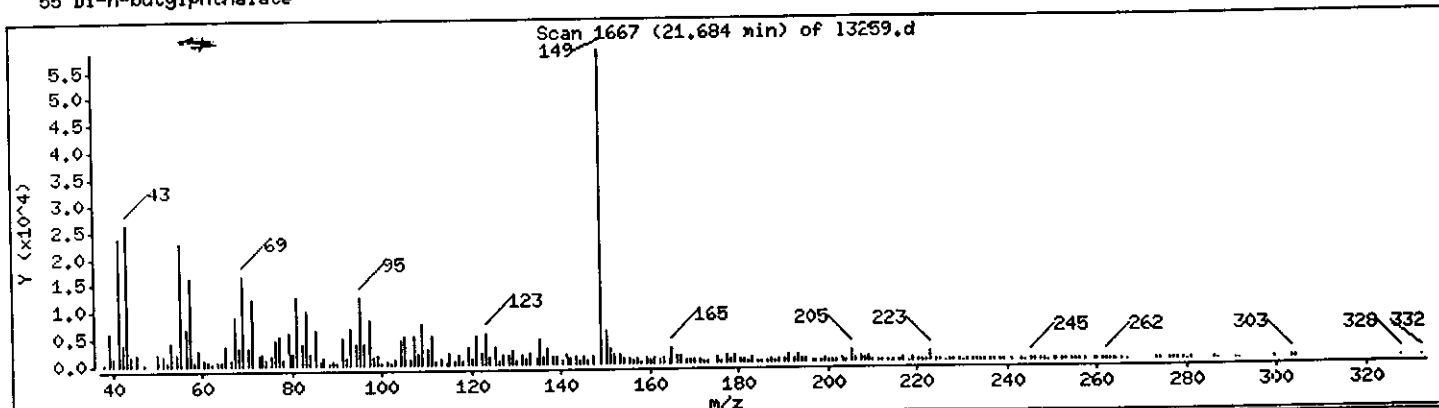
Operator: BNAMS 4

Column diameter: 0.25

Column phase: DB-5

Concentration: 95 ug/Kg

55 Di-n-butylphthalate



Data File: /chem/BNAMS7.1/8270/10-27-00/30oct00A.b/13259.d

Date : 30-OCT-2000 23:29

Client ID: EB-2_Catch_Basin

Sample Info: 237813;30;2;1;16.3

Instrument: BNAMS7.1

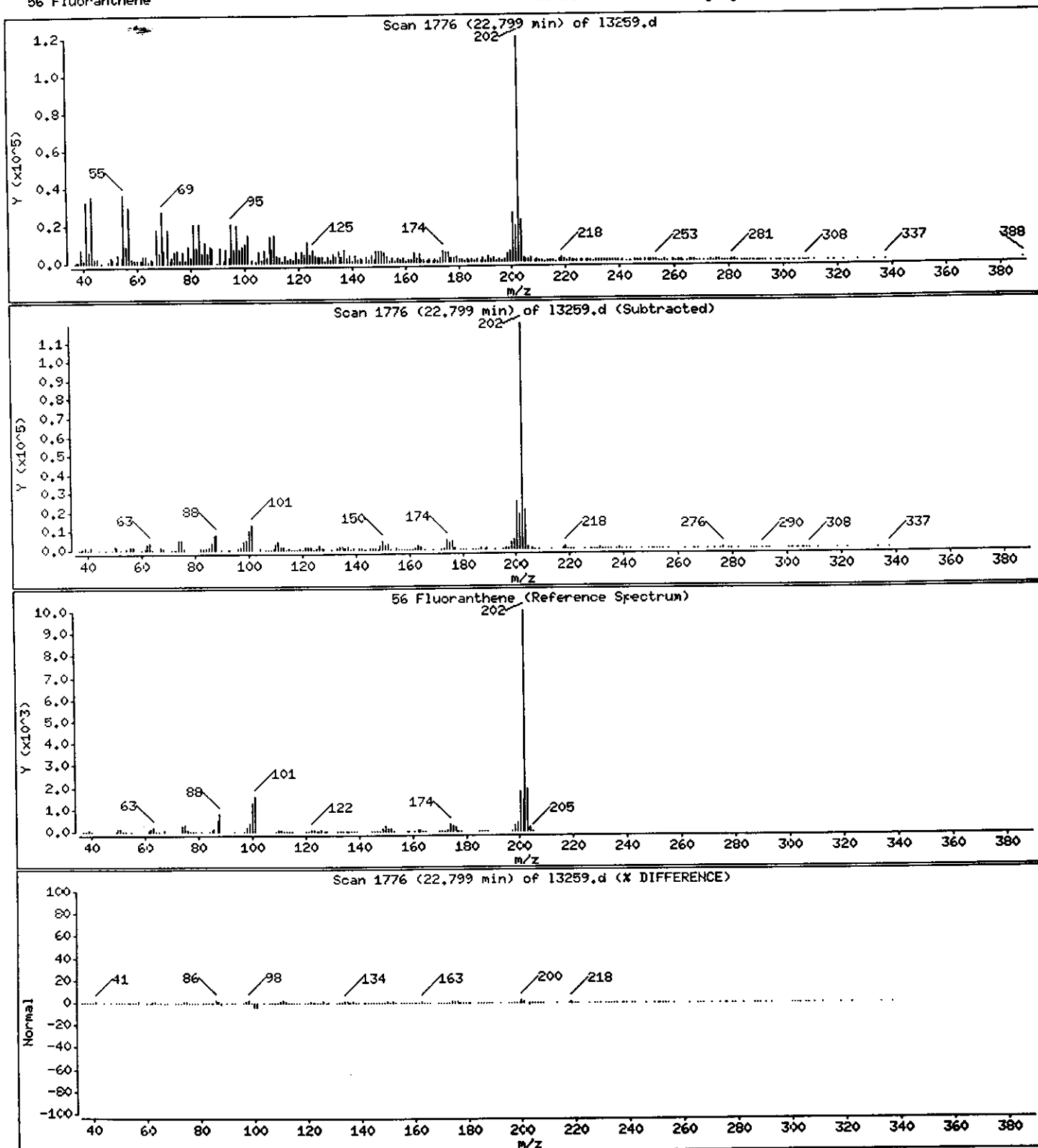
Operator: BNAMS 4

Column diameter: 0.25

Column phase: DB-5

Concentration: 350 ug/Kg

56 Fluoranthene



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13259.d

Date : 30-OCT-2000 23:29

Client ID: EB-2_Catch_Basin

Sample Info: 237813;30;2;1;16.3

Instrument: BNAMS7.i

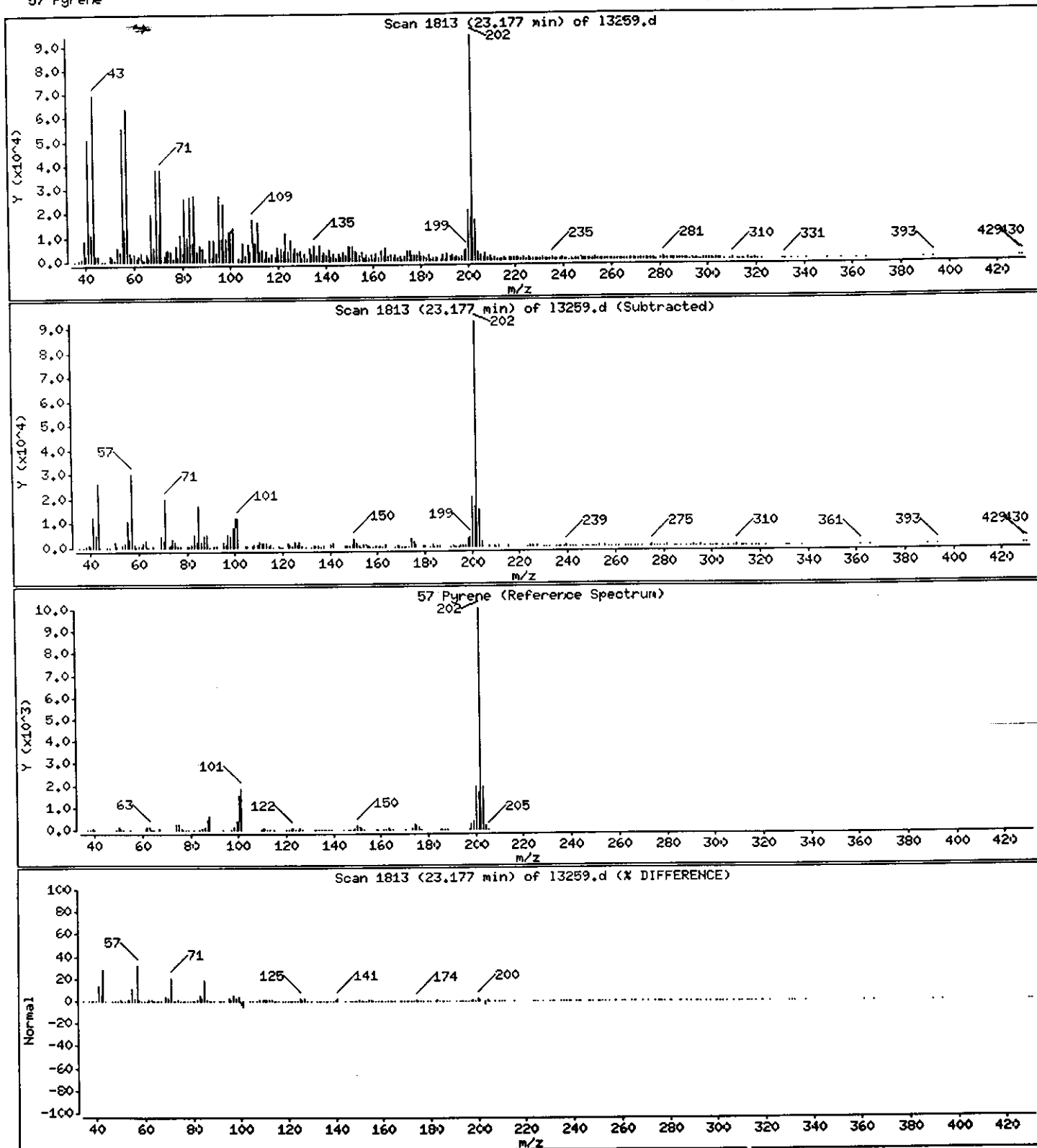
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Concentration: 360 ug/Kg

57 Pyrene



Data File: /chem/BNAMS7.1/8270/10-27-00/30oct00A.b/13259.d

Date : 30-OCT-2000 23:29

Client ID: EB-2_Catch_Basin

Sample Info: 237813;30;2;1;16,3

Instrument: BNAMS7.i

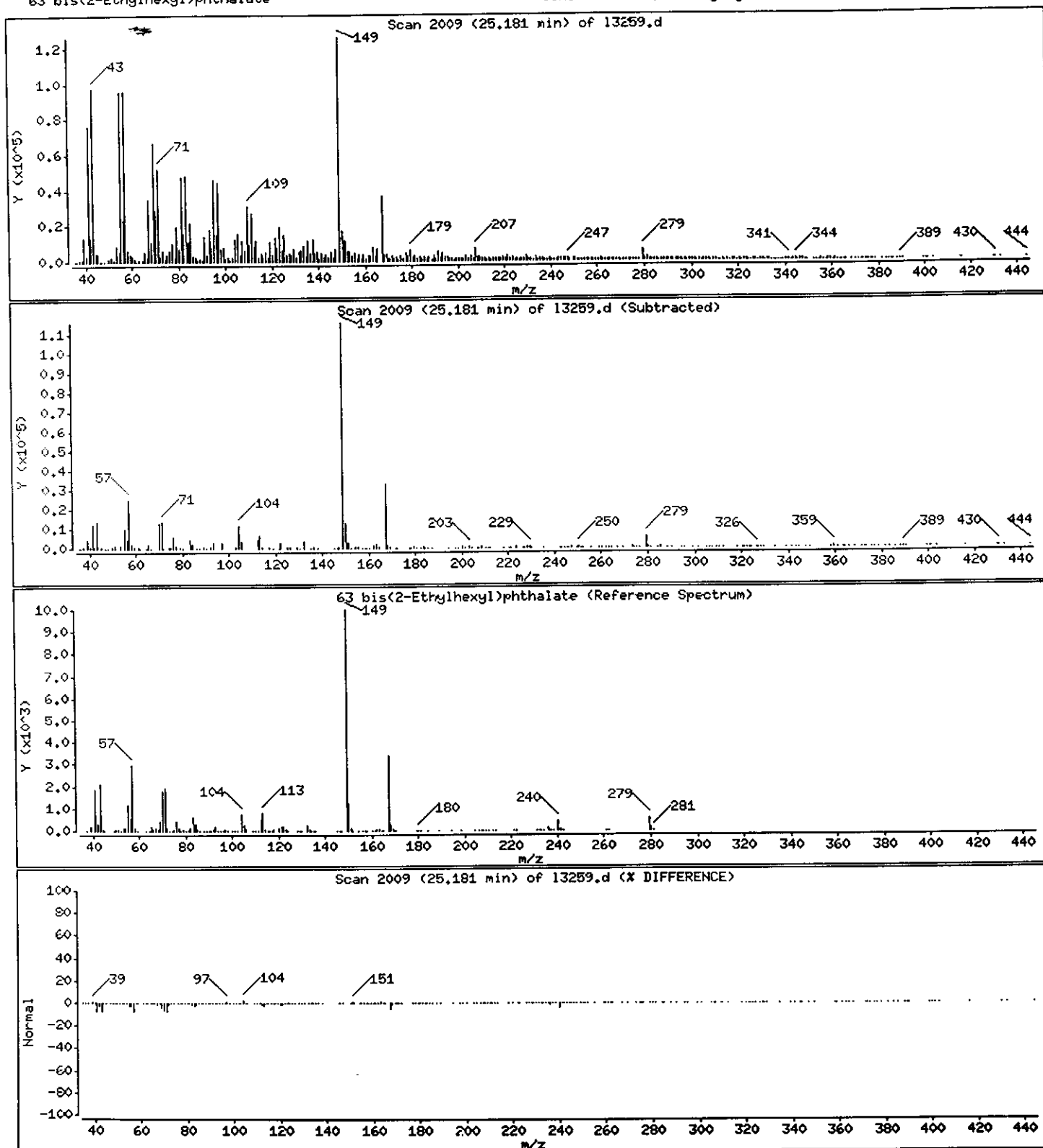
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

63 bis(2-Ethylhexyl)phthalate

Concentration: 450 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13259.d

Date : 30-OCT-2000 23:29

Client ID: EB-2_Catch_Basin

Instrument: BNAMS7.i

Sample Info: 237813;30;2;1;16.3

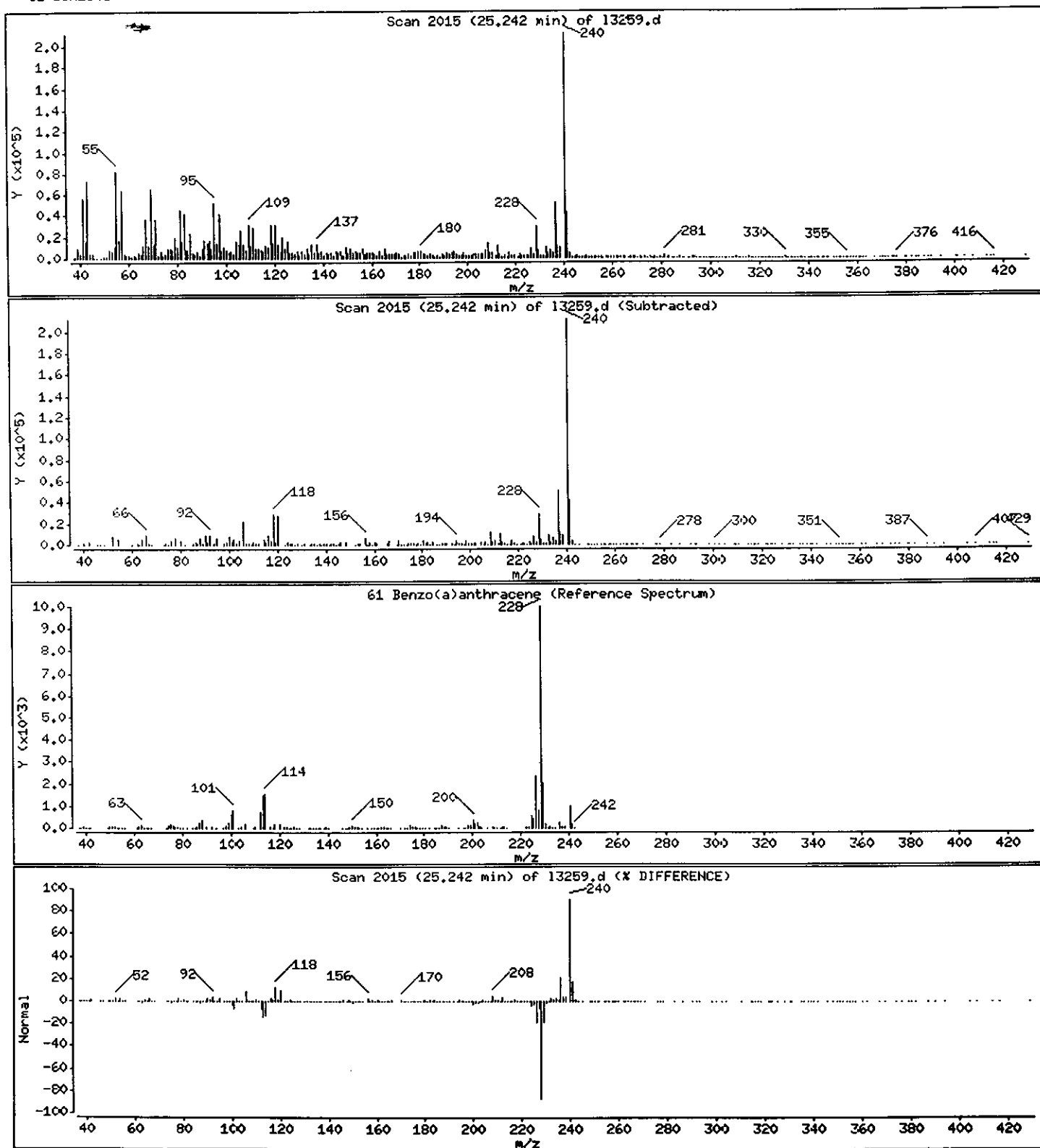
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

61 Benzo(a)anthracene

Concentration: 160 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13259.d

Date : 30-OCT-2000 23:29

Client ID: EB-2_Catch_Basin

Instrument: BNAMS7.i

Sample Info: 237813;30;2;1;16.3

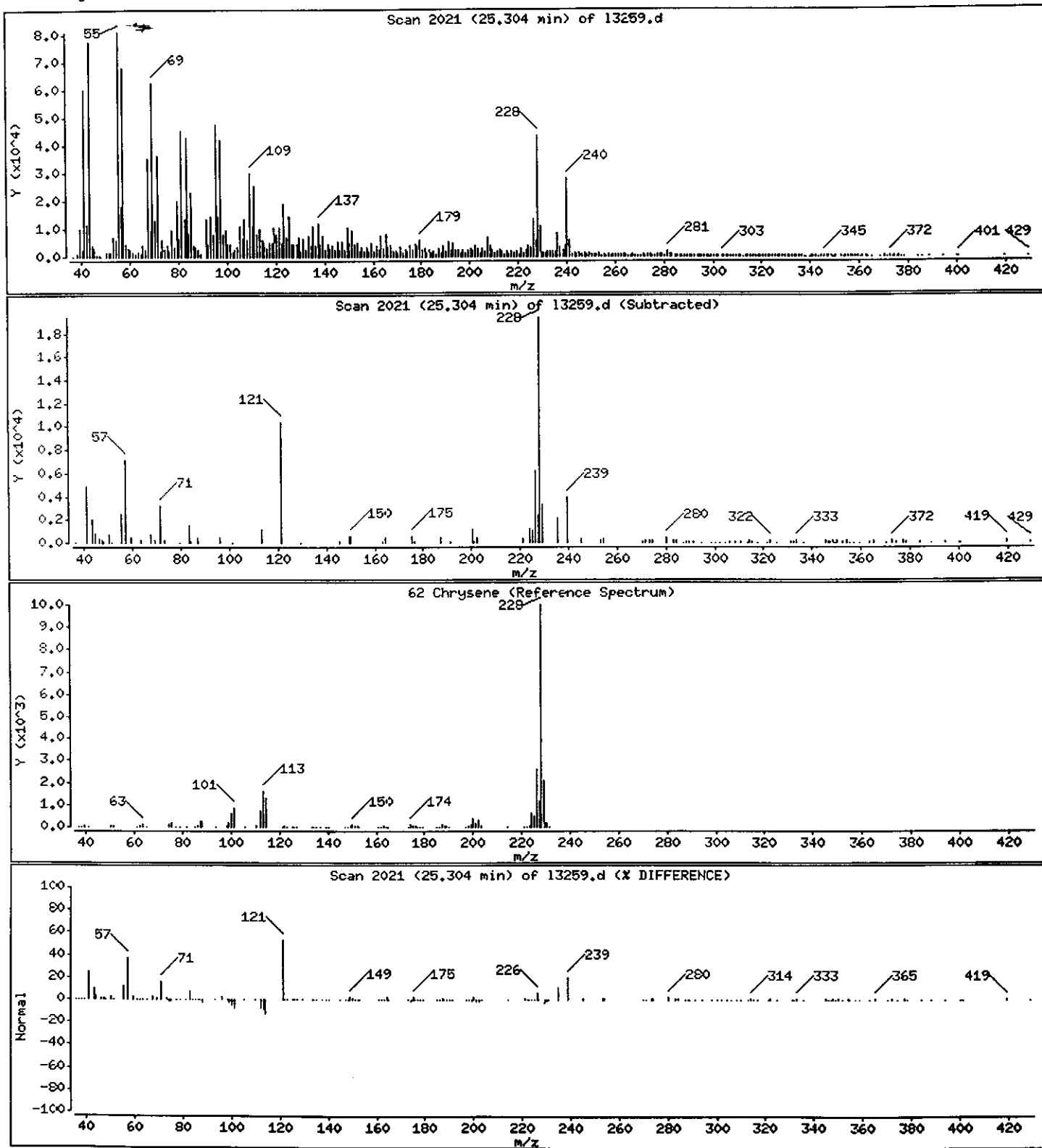
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

62 Chrysene

Concentration: 300 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13259.d

Date : 30-OCT-2000 23:29

Client ID: EB-2_Catch_Basin

Instrument: BNAMS7.i

Sample Info: 237813;30;2;1;16.3

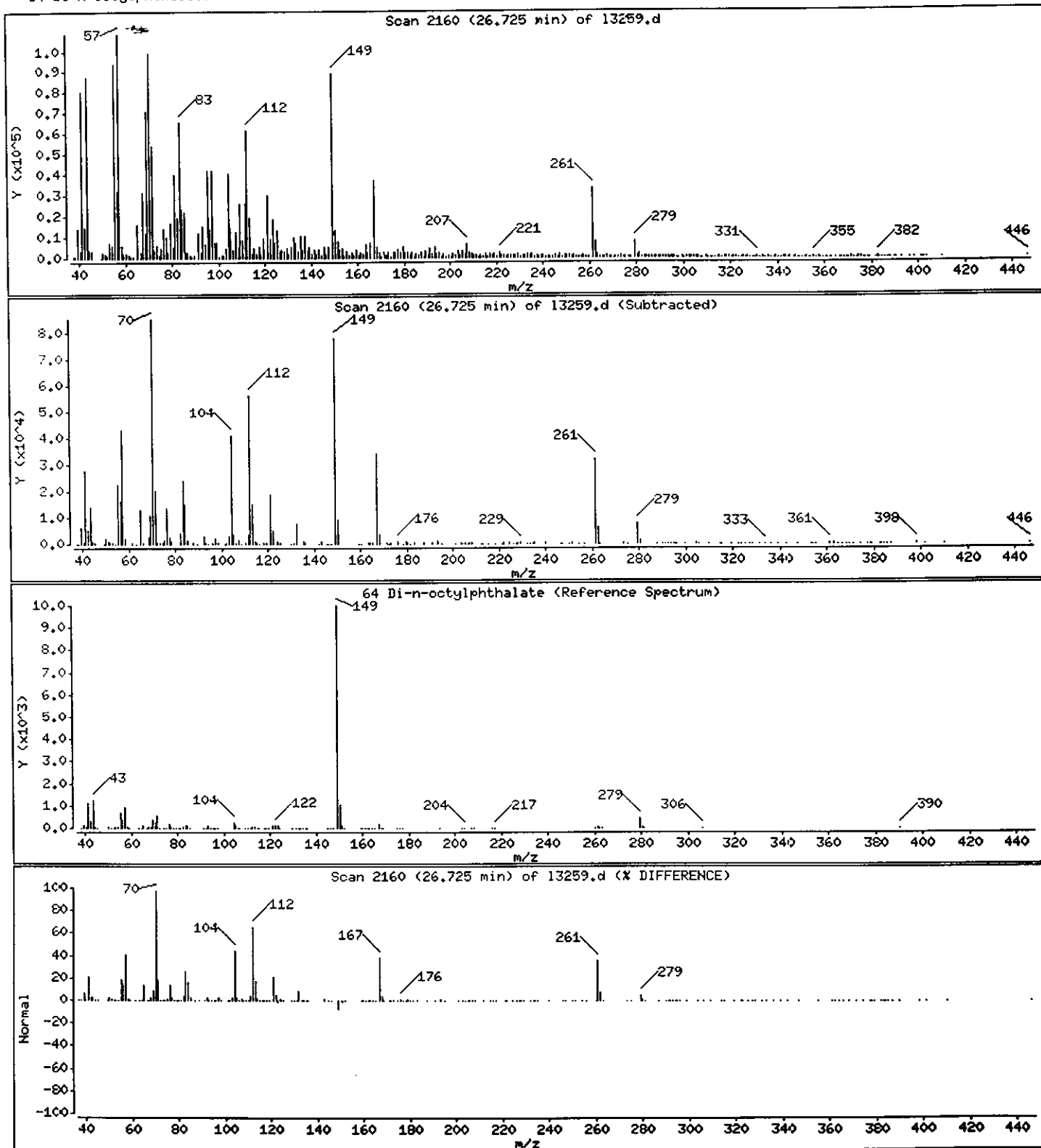
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

64 Di-n-octylphthalate

Concentration: 280 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13259.d

Date : 30-OCT-2000 23:29

Client ID: EB-2_Catch_Basin

Sample Info: 237813;30;2;1;16.3

Instrument: BNAMS7.i

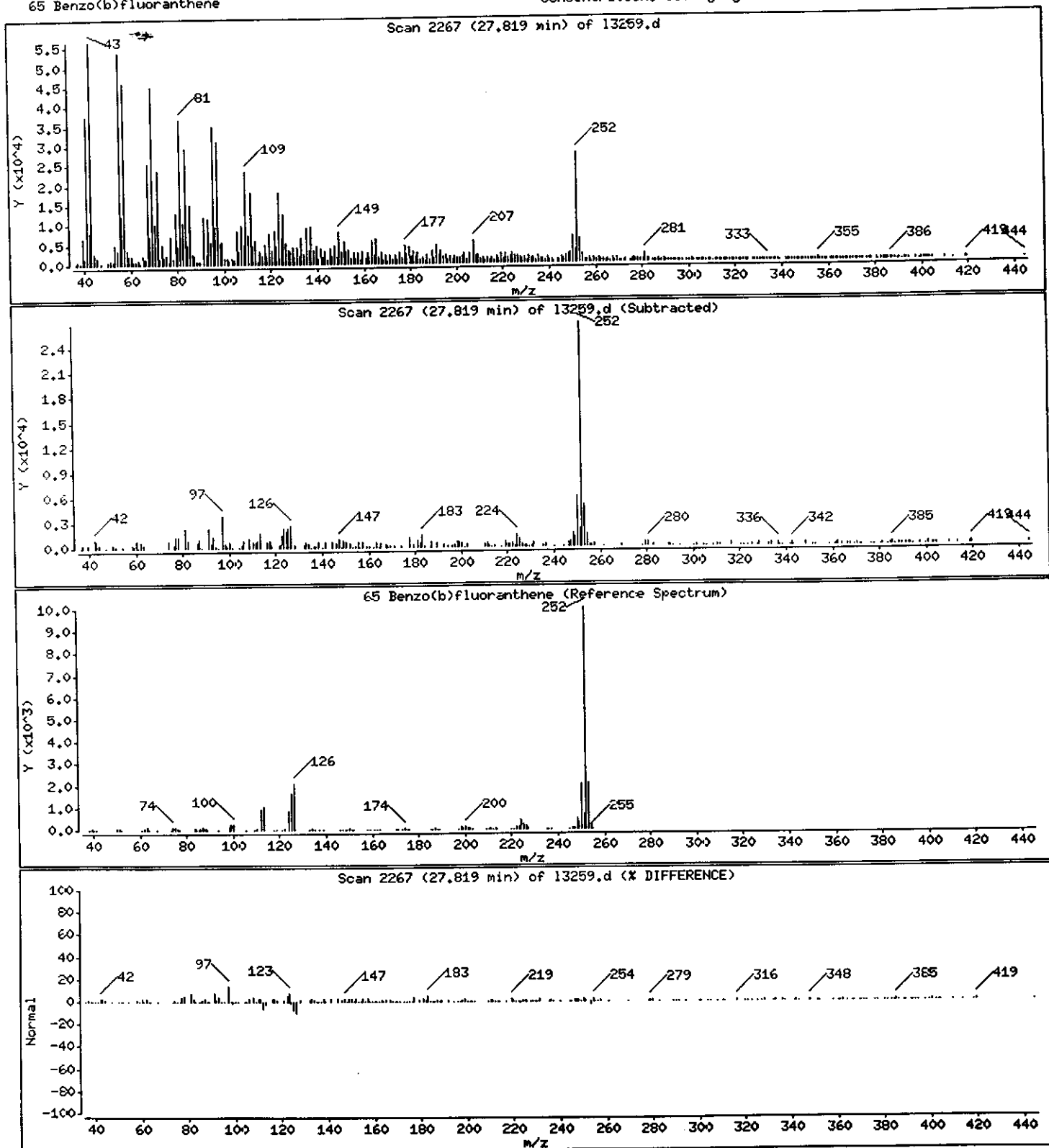
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

65 Benzo(b)fluoranthene

Concentration: 380 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13259.d

Date : 30-OCT-2000 23:29

Client ID: EB-2_Catch_Basin

Sample Info: 237813;30;2;1;16,3

Instrument: INAMS7.i

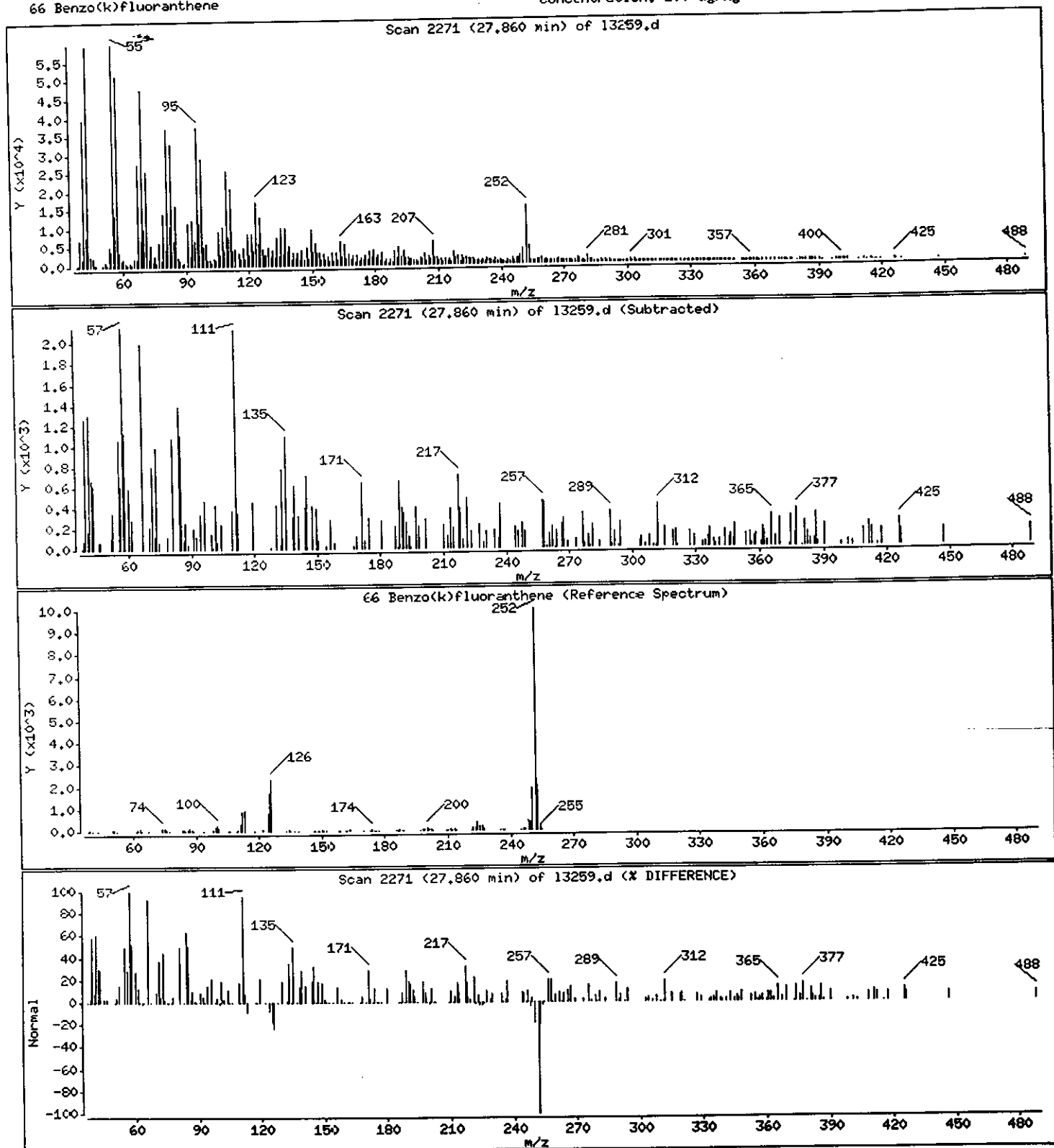
Operator: BNAMS 4

Column diameter: 0.25

Column phase: DB-5

Concentration: 200 ug/Kg

66 Benzo(k)fluoranthene



Data File: /chem/BNHMS7.i/8270/10-27-00/30oct00A.b/13259.d

Date : 30-OCT-2000 23:29

Client ID: EB-2_Catch_Basin

Sample Info: 237813;30;2;1;16.3

Instrument: BNHMS7.i

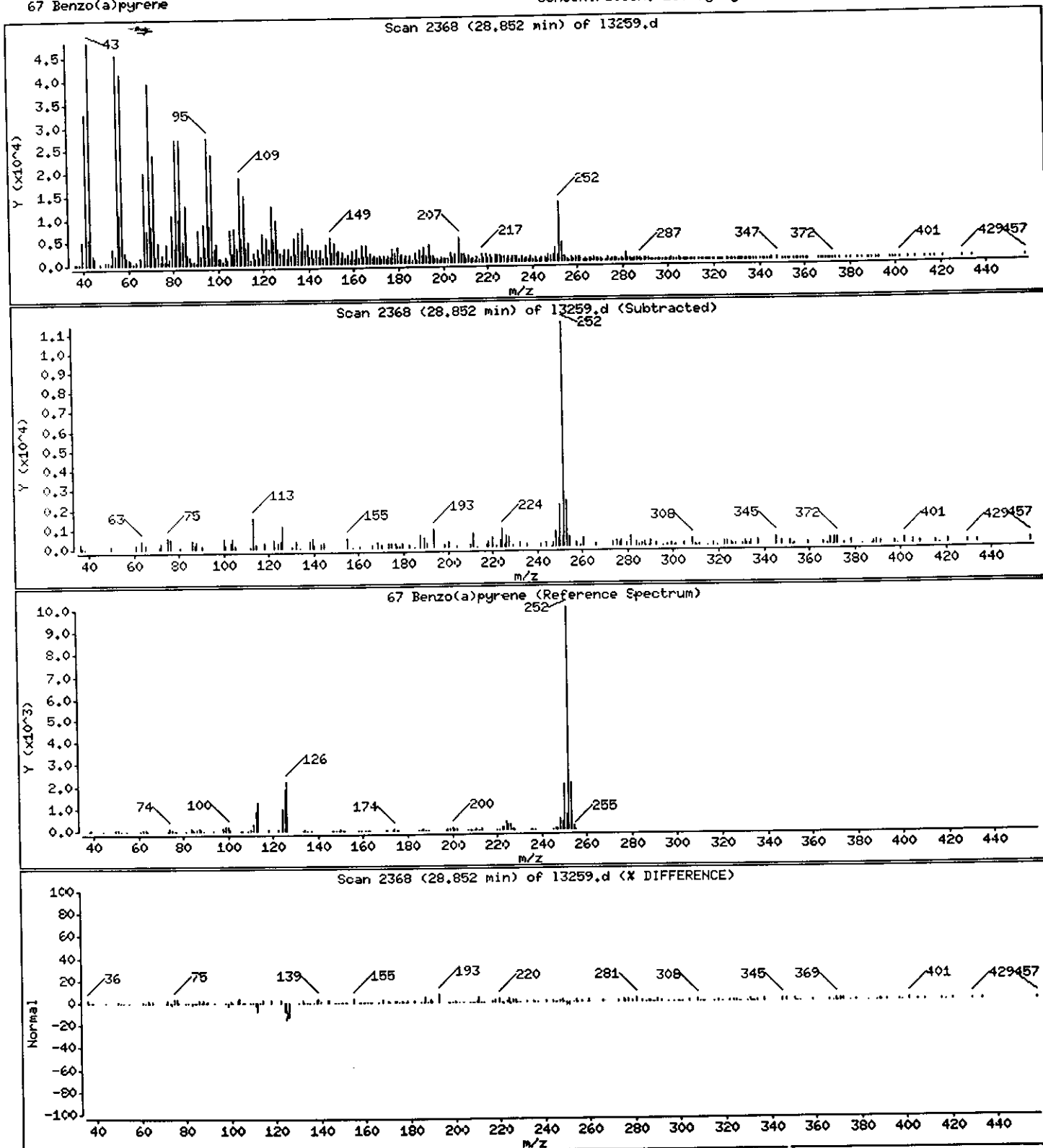
Operator: BNHMS 4

Column diameter: 0.25

Column phase: DB-5

Concentration: 160 ug/Kg

67 Benzo(a)pyrene



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13259.d

Date : 30-OCT-2000 23:29

Client ID: EB-2_Catch_Basin

Sample Info: 237813;30;2;1;16.3

Instrument: BNAMS7.i

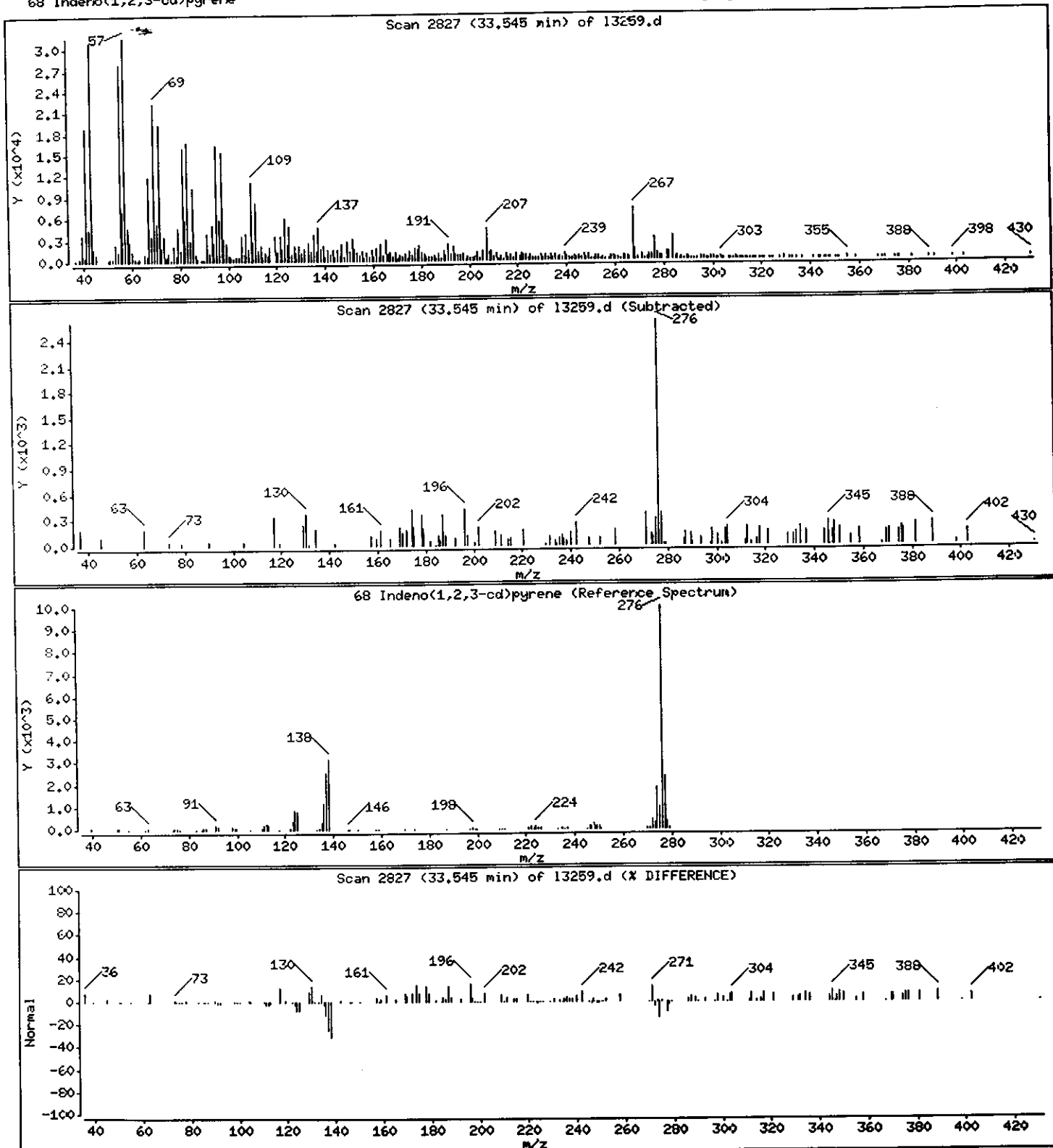
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

68 Indeno(1,2,3-cd)pyrene

Concentration: 68 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13259.d

Date : 30-OCT-2000 23:29

Client ID: EB-2_Catch_Basin

Sample Info: 237813;30;2;1;16.3

Instrument: BNAMS7.i

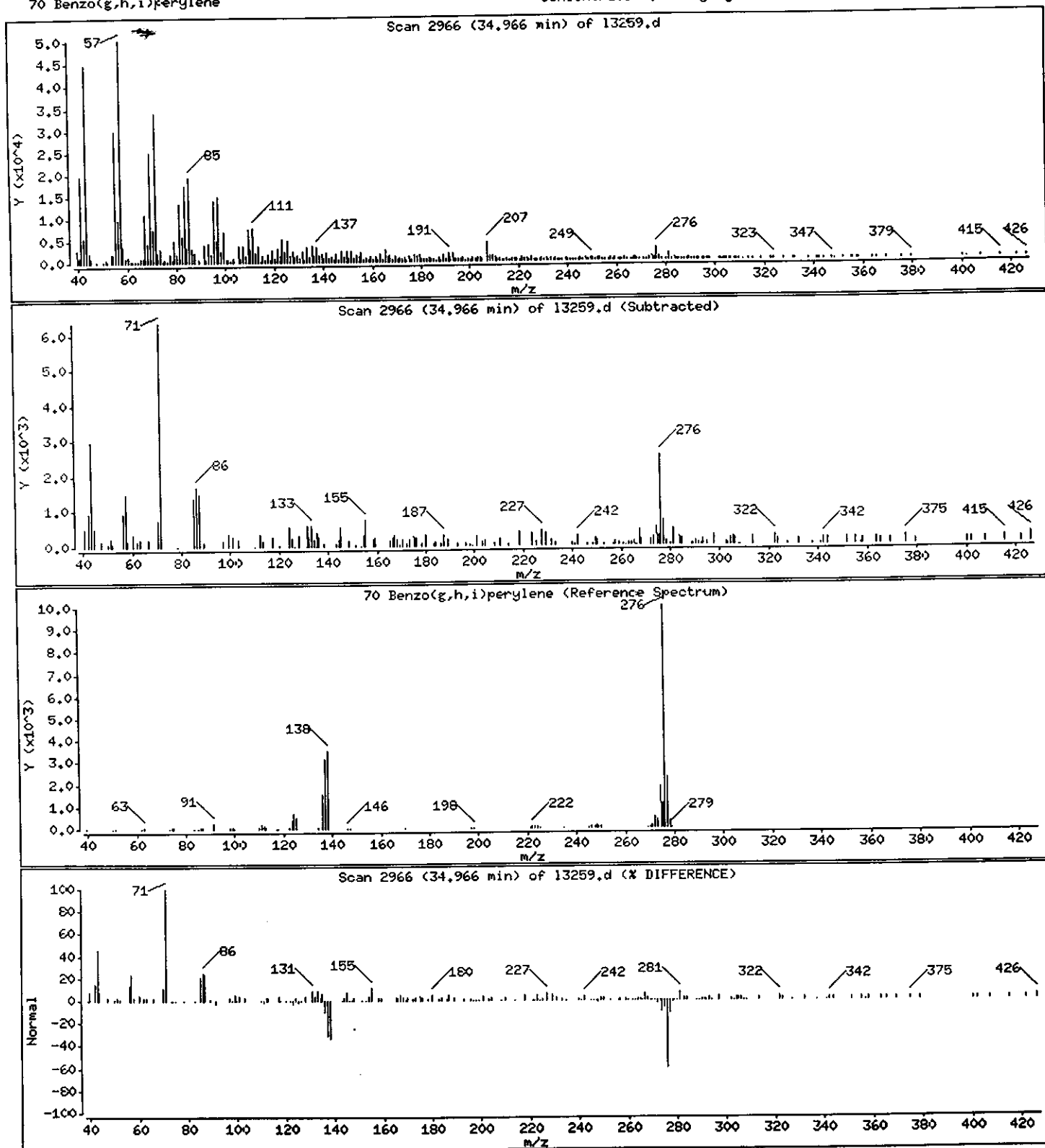
Operator: BNAMS 4

Column diameter: 0.25

Column phase: DB-5

Concentration: 69 ug/Kg

70 Benzo(g,h,i)perylene



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13259.d

Date : 30-OCT-2000 23:29

Client ID: EB-2_Catch_Basin

Sample Info: 237813;30;2;1;16.3

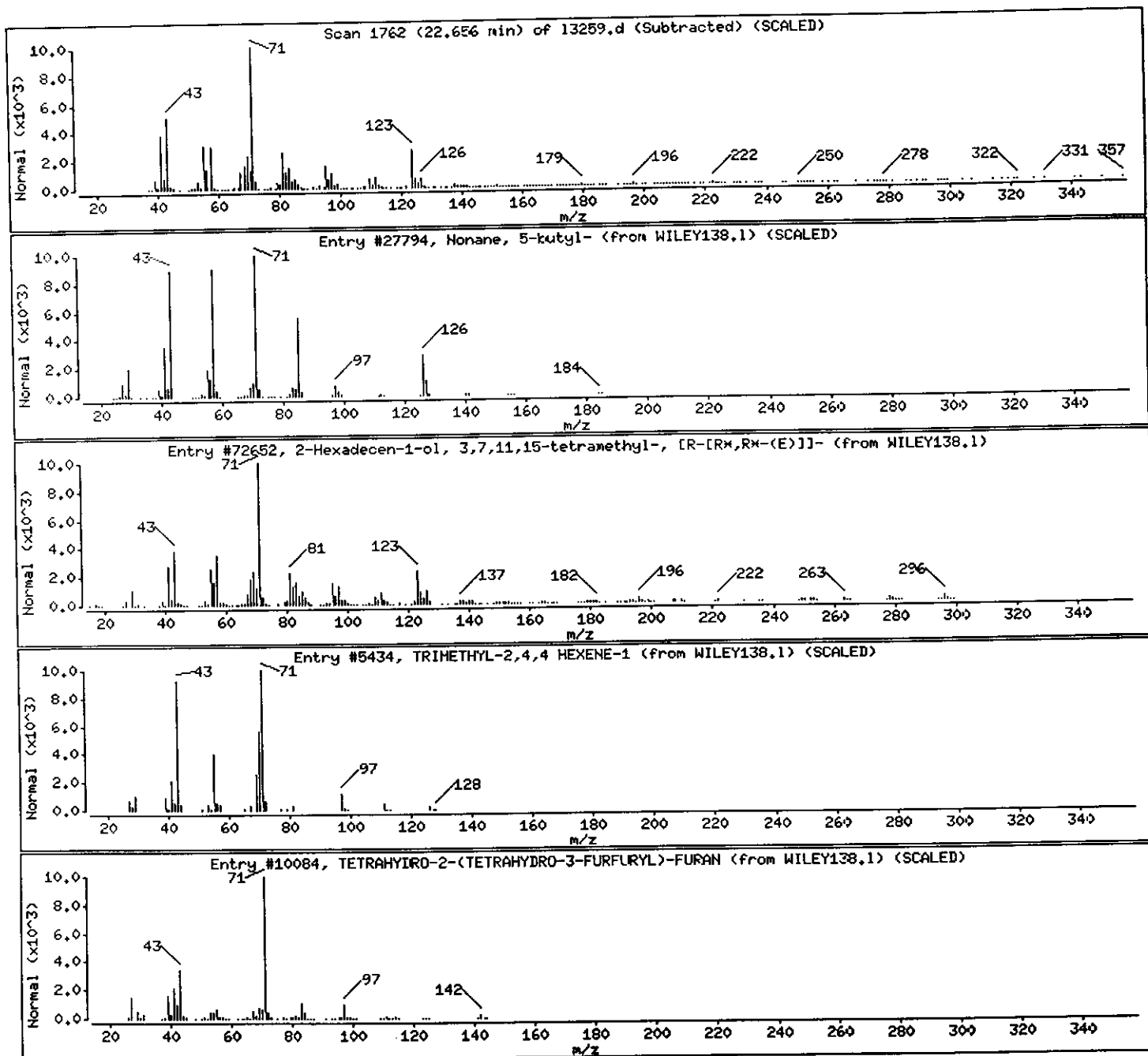
Instrument: BNAMS7.i

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Nonane, 5-butyl-	17312-63-9	WILEY138.1	27794	53	C13H28	184
2-Hexadecen-1-ol, 3,7,11,15-tetramethyl-	150-86-7	WILEY138.1	72652	52	C20H40O	296
TRIMETHYL-2,4,4 HEXENE-1	0-00-0	WILEY138.1	5434	50	C9H18	126
TETRAHYDRO-2-(TETRAHYDRO-3-FURFURYL)-FUR	0-00-0	WILEY138.1	10084	47	C8H14O2	142



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13259.d

Date : 30-OCT-2000 23:29

Client ID: EB-2_Catch_Basin

Sample Info: 237813;30;2;1;16.3

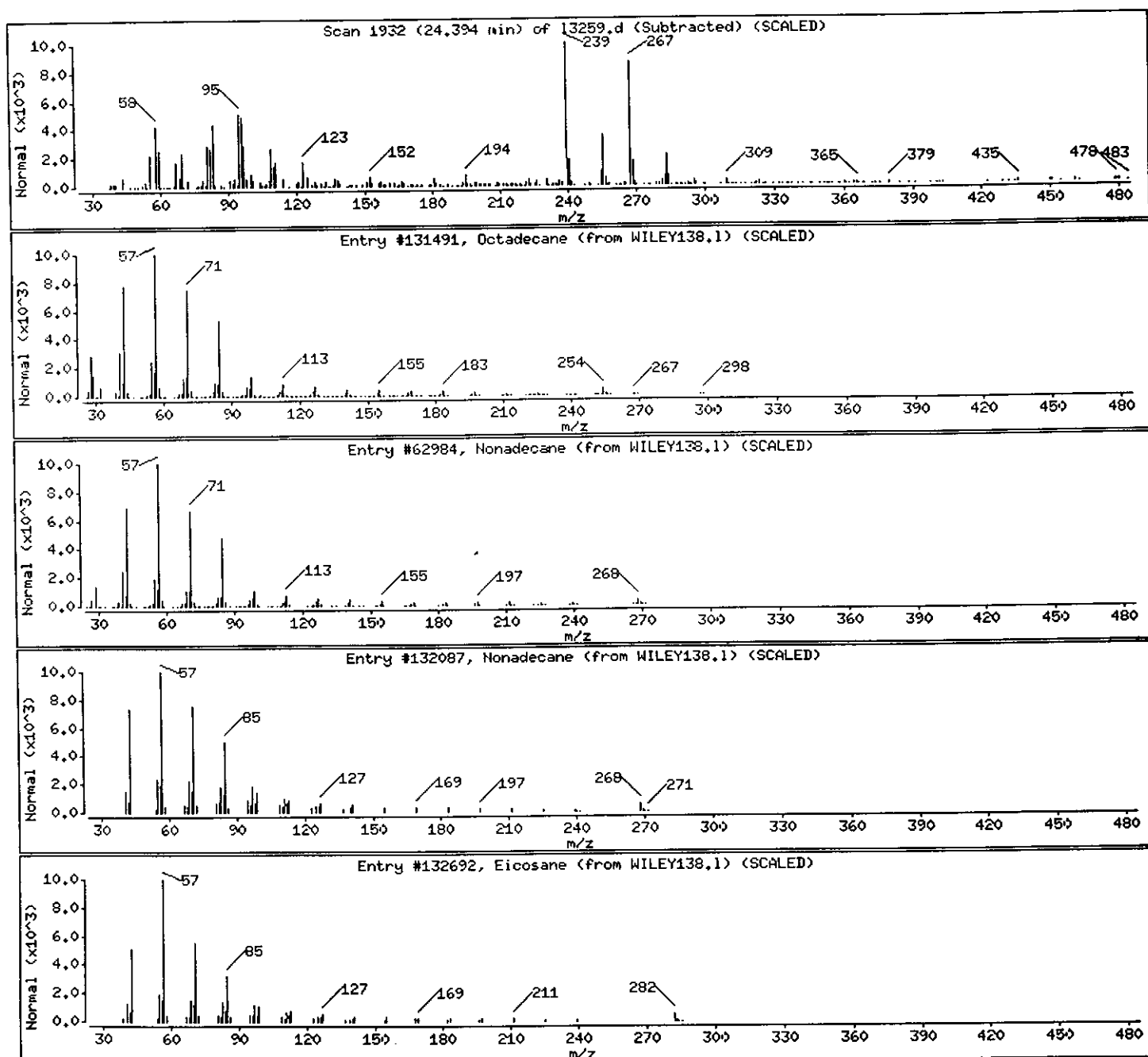
Instrument: BNAMS7.i

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Octadecane	593-45-3	WILEY138.1	131491	97	C18H38	254
Nonadecane	629-92-5	WILEY138.1	62984	94	C19H40	268
Nonadecane	629-92-5	WILEY138.1	132087	93	C19H40	268
Eicosane	112-95-8	WILEY138.1	132692	93	C20H42	282



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13259.d

Date : 30-OCT-2000 23:29

Client ID: EB-2_Catch_Basin

Sample Info: 237813;30;2;1;16.3

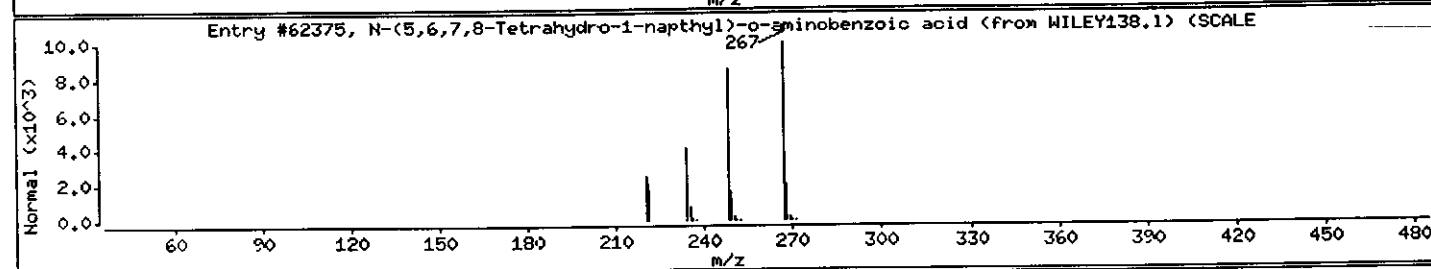
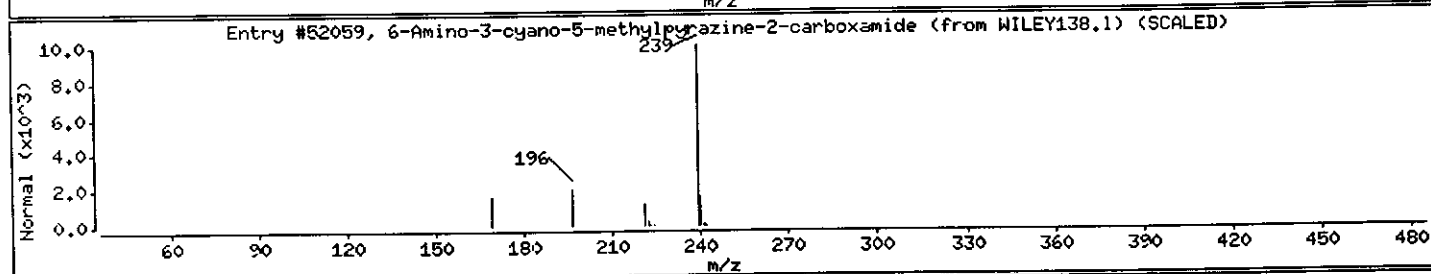
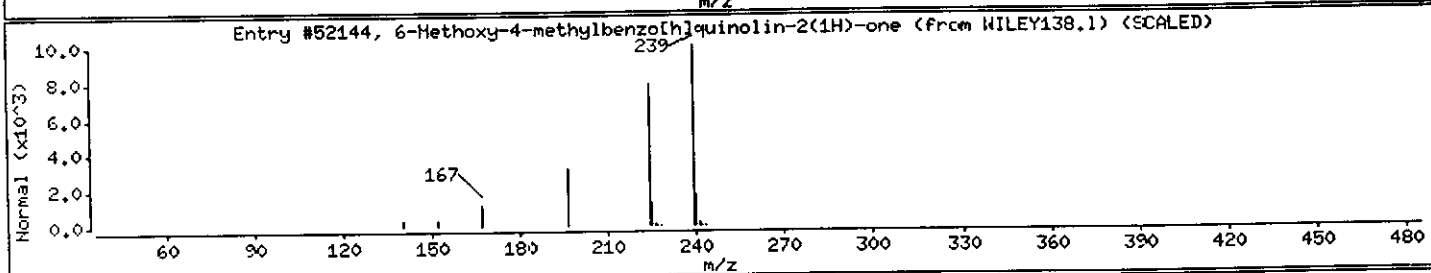
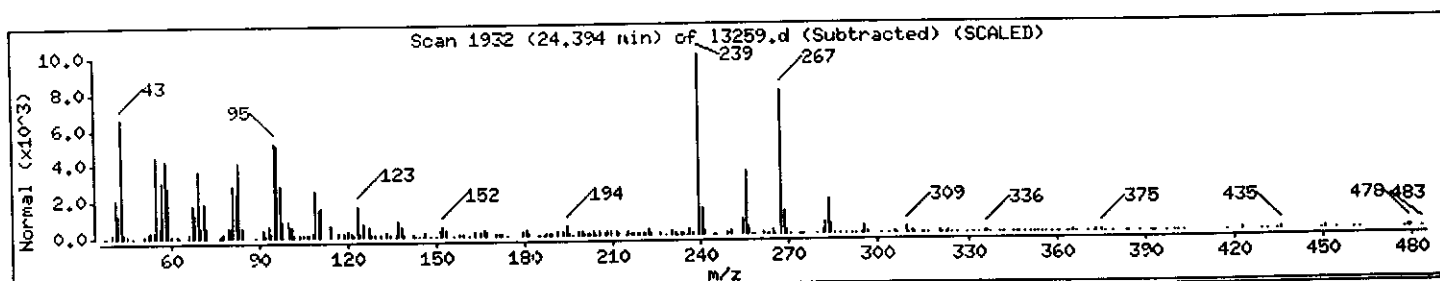
Instrument: BNAMS7.i

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
6-Methoxy-4-methylbenzo[h]quinolin-2(1H)	92599-07-0	WILEY138.1	52144	35	C15H13NO2	239
6-Amino-3-cyano-5-methylpyrazine-2-carbo	68568-25-2	WILEY138.1	52059	25	C12H9NEO	239
N-(5,6,7,8-Tetrahydro-1-naphthyl)-o-amino	18201-57-5	WILEY138.1	62375	25	C17H17NO2	267



Data File: /chem/BNHMS7.1/8270/10-27-00/30oct00A.b/13259.d

Date : 30-OCT-2000 23:29

Client ID: EB-2_Catch_Basin

Instrument: BNHMS7.i

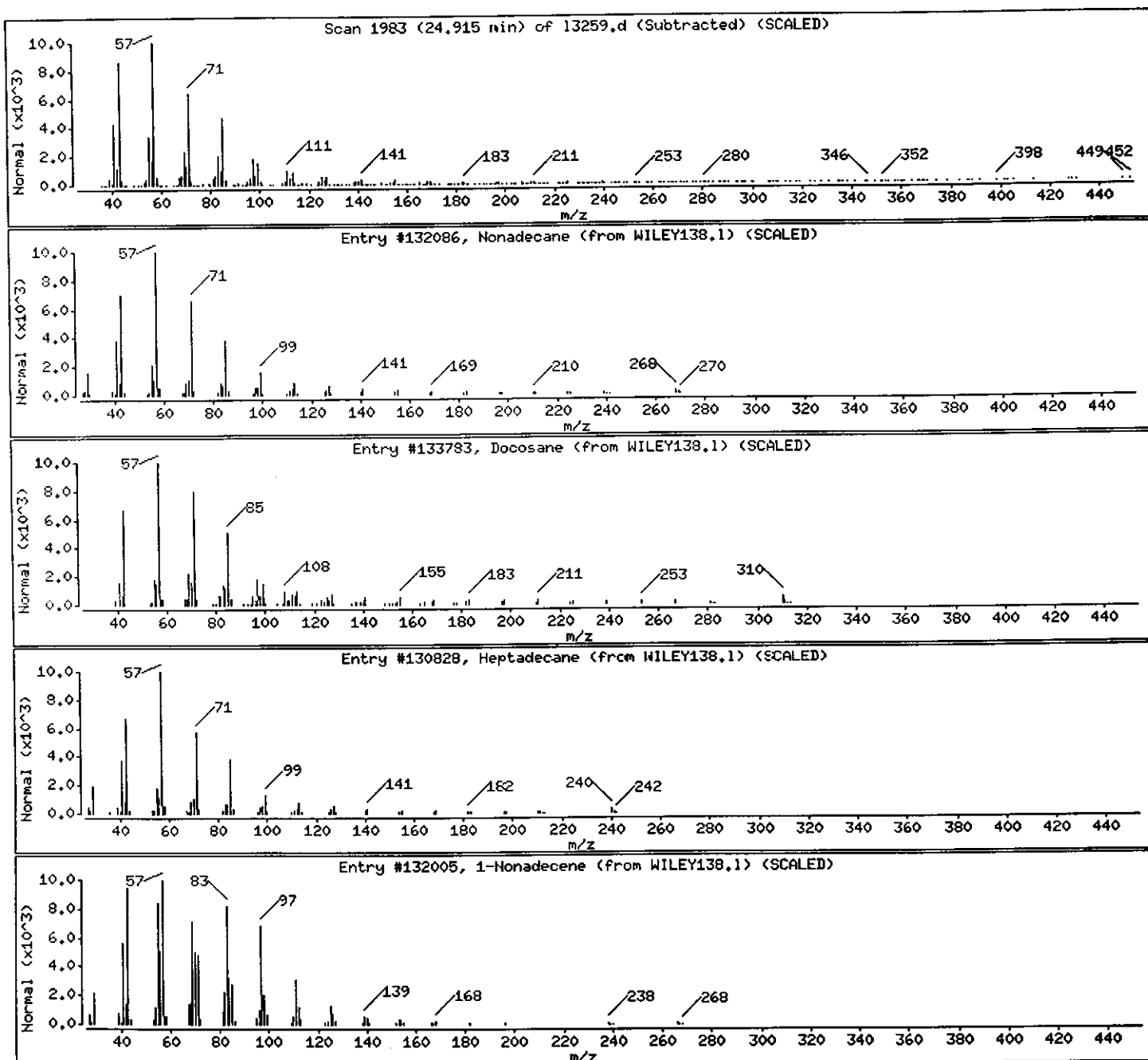
Sample Info: 237813;30;2;1;16.3

Operator: BNHMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Nonadecane	629-92-5	WILEY138.1	132086	95	C19H40	268
Docosane	629-97-0	WILEY138.1	133783	94	C22H44	310
Heptadecane	629-78-7	WILEY138.1	130828	94	C17H36	240
1-Nonadecene	18435-45-5	WILEY138.1	132005	93	C19H38	266



Data File: /chem/BNAMS7.1/8270/10-27-00/30oct00A.b/13259.d

Date : 30-OCT-2000 23:29

Client ID: EB-2_Catch_Basin

Instrument: BNAMS7.1

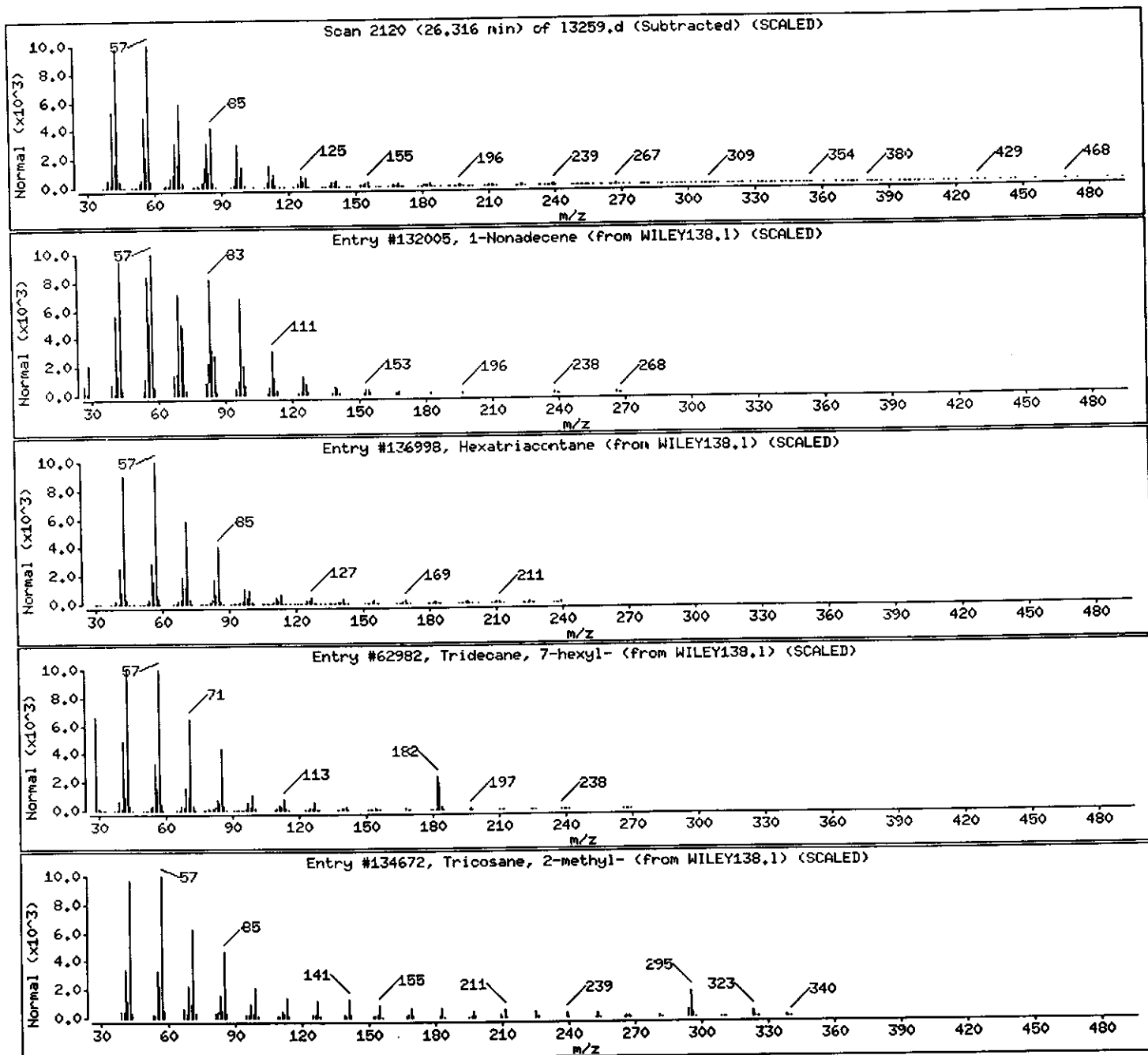
Sample Info: 237813;30;2;1;16.3

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
1-Nonadecene	18435-45-5	WILEY138.1	132005	90	C19H38	266
Hexatriacontane	630-06-8	WILEY138.1	136998	87	C36H74	507
Tridecane, 7-hexyl-	7225-66-3	WILEY138.1	62982	86	C19H40	268
Tricosane, 2-methyl-	1928-30-9	WILEY138.1	134672	86	C24H50	338



Data File: /chem/BNAMS7.1/8270/10-27-00/30oct00A.b/13259.d

Date : 30-OCT-2000 23:29

Client ID: EB-2_Catch_Basin

Sample Info: 237813;30;2;1;16,3

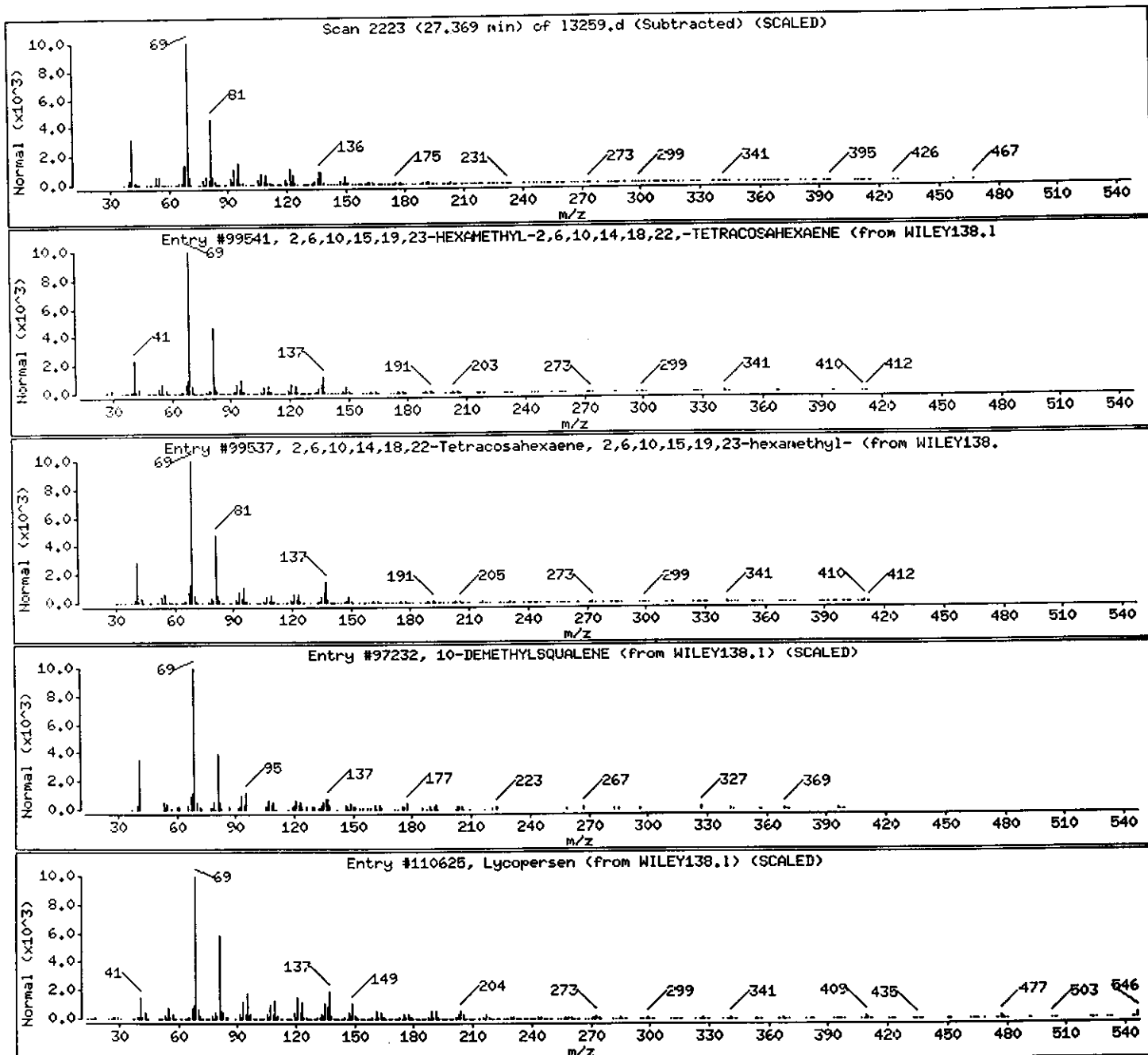
Instrument: BNAMS7.1

Operator: BNAMS 4

Column diameter: 0.25

Column phase: DB-5

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2,6,10,15,19,23-HEXAMETHYL-2,6,10,14,18,	0-00-0	WILEY138.1	99541	91	C30H50	410
2,6,10,14,18,22-Tetracosahexaene, 2,6,10	7683-64-9	WILEY138.1	99537	90	C30H50	410
10-DEMETHYLSQUALENE	59681-06-0	WILEY138.1	97232	90	C29H48	396
Lycopersen	502-62-5	WILEY138.1	110625	83	C40H66	547



Data File: /chem/BNAMS7.1/8270/10-27-00/30oct00A.b/13259.d

Date : 30-OCT-2000 23:29

Client ID: EB-2_Catch_Basin

Instrument: BNAMS7.1

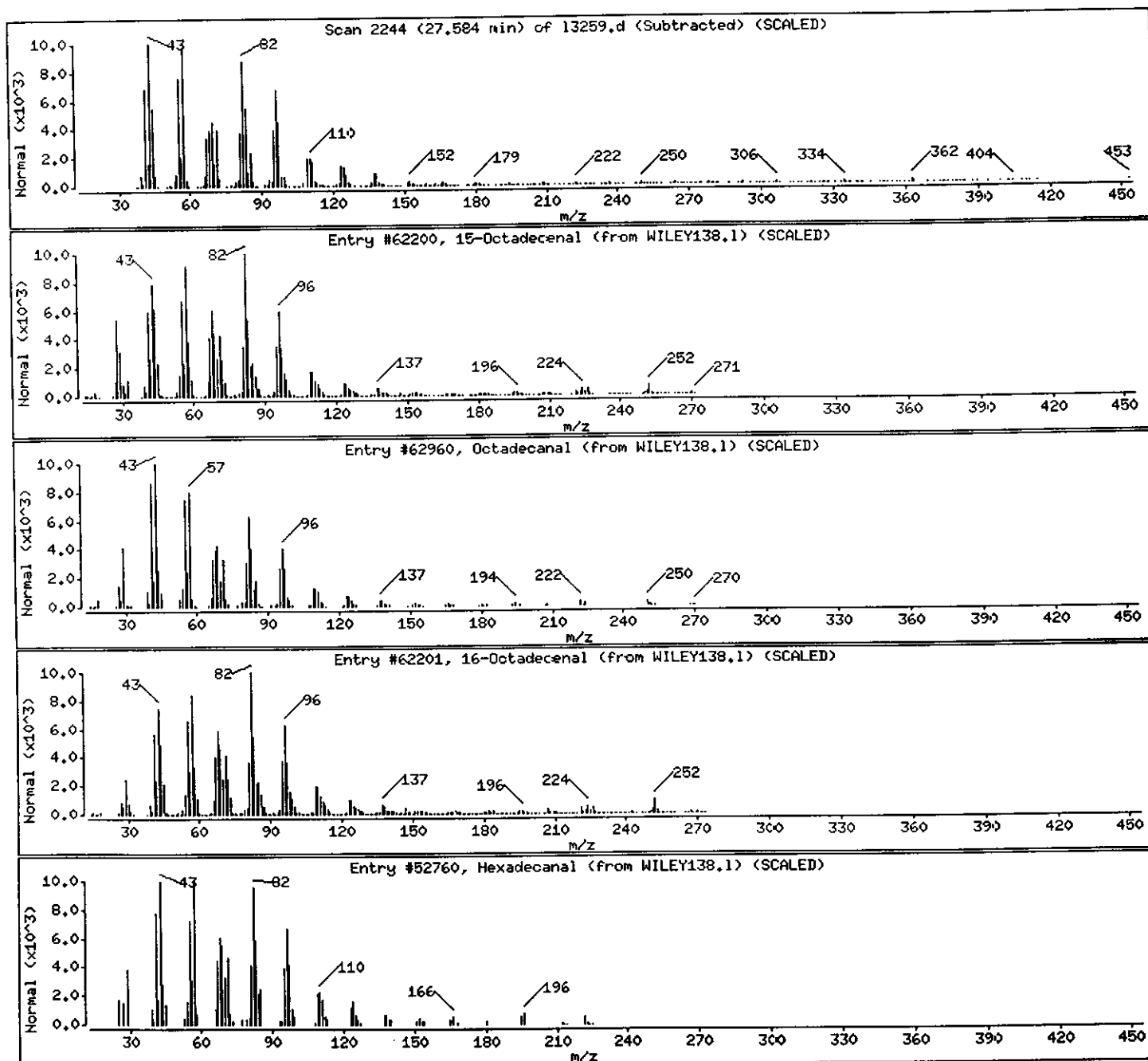
Sample Info: 237813;30;2;1;16.3

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
15-Octadecenal	56554-93-9	WILEY138.1	62200	93	C18H34O	266
Octadecanal	638-66-4	WILEY138.1	62960	90	C18H36O	268
16-Octadecenal	56554-87-1	WILEY138.1	62201	87	C18H34O	266
Hexadecanal	629-80-1	WILEY138.1	52760	86	C16H32O	240



Data File: /chem/BNAMS7.1/8270/10-27-00/30oct00A.b/13259.d

Date : 30-OCT-2000 23:29

Client ID: EB-2_Catch_Basin

Instrument: BNAMS7.i

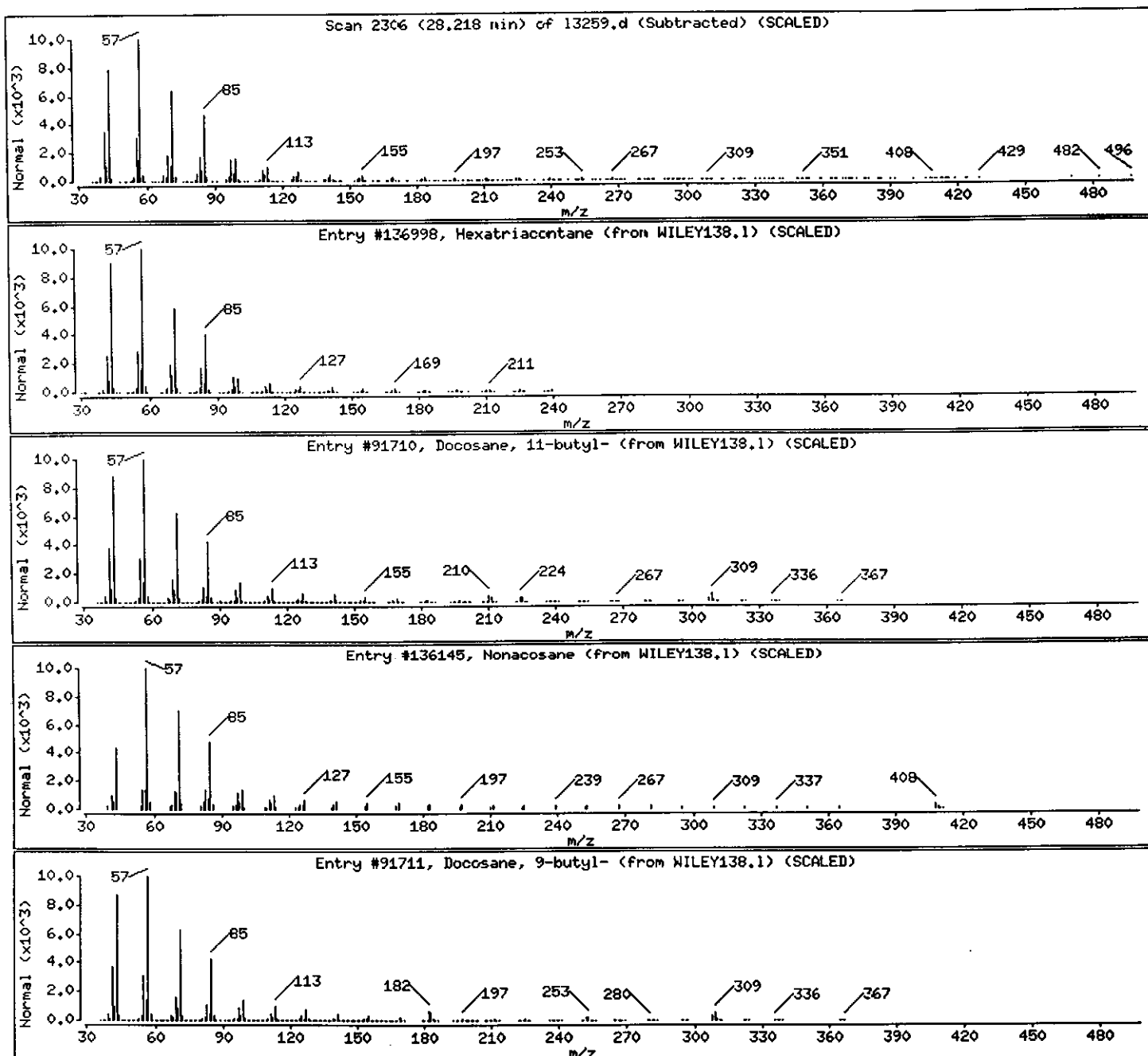
Sample Info: 237813;30;2;1;16.3

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Hexatriacontane	630-06-8	WILEY138.1	136998	95	C ₃₆ H ₇₄	507
Docosane, 11-butyl-	13475-76-8	WILEY138.1	91710	94	C ₂₆ H ₅₄	366
Nonacosane	630-03-5	WILEY138.1	136145	94	C ₂₉ H ₆₀	408
Docosane, 9-butyl-	55282-14-9	WILEY138.1	91711	93	C ₂₆ H ₅₄	366



Data File: /chem/BNAMS7.1/8270/10-27-00/30oct00A.b/13259.d

Date: 30-OCT-2000 23:29

Client ID: EB-2_Catch_Basin

Sample Info: 237813;30;2;1;16.3

Instrument: BNAMS7.1

Operator: BNAMS 4

Column diameter: 0.25

Column phase: DB-5

Library Search Compound Match

Unknown Hydrocarbon

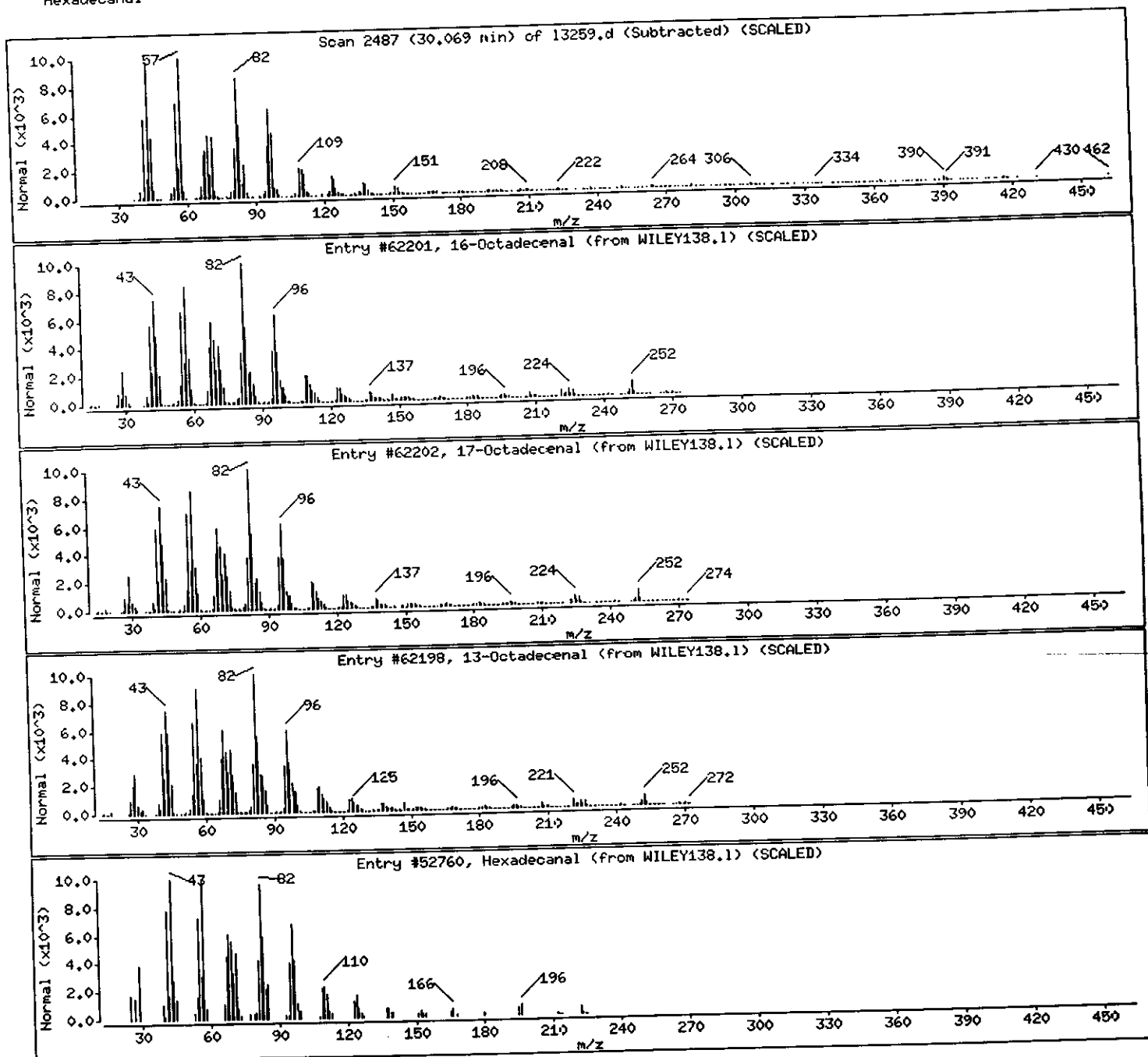
16-Octadecenal

17-Octadecenal

13-Octadecenal

Hexadecenal

CAS Number	Library	Entry	Quality	Formula	Weight
56554-87-1	WILEY138.1	62201	94	C18H34O	266
56554-86-0	WILEY138.1	62202	94	C18H34O	266
56554-90-6	WILEY138.1	62198	81	C18H34O	266
629-80-1	WILEY138.1	52760	80	C16H32O	240



Data File: /chem/BNAMS7.1/8270/10-27-00/30oct00A.b/13259.d

Date : 30-OCT-2000 23:29

Client ID: EB-2_Catch_Basin

Sample Info: 237813;30;2;1;16.3

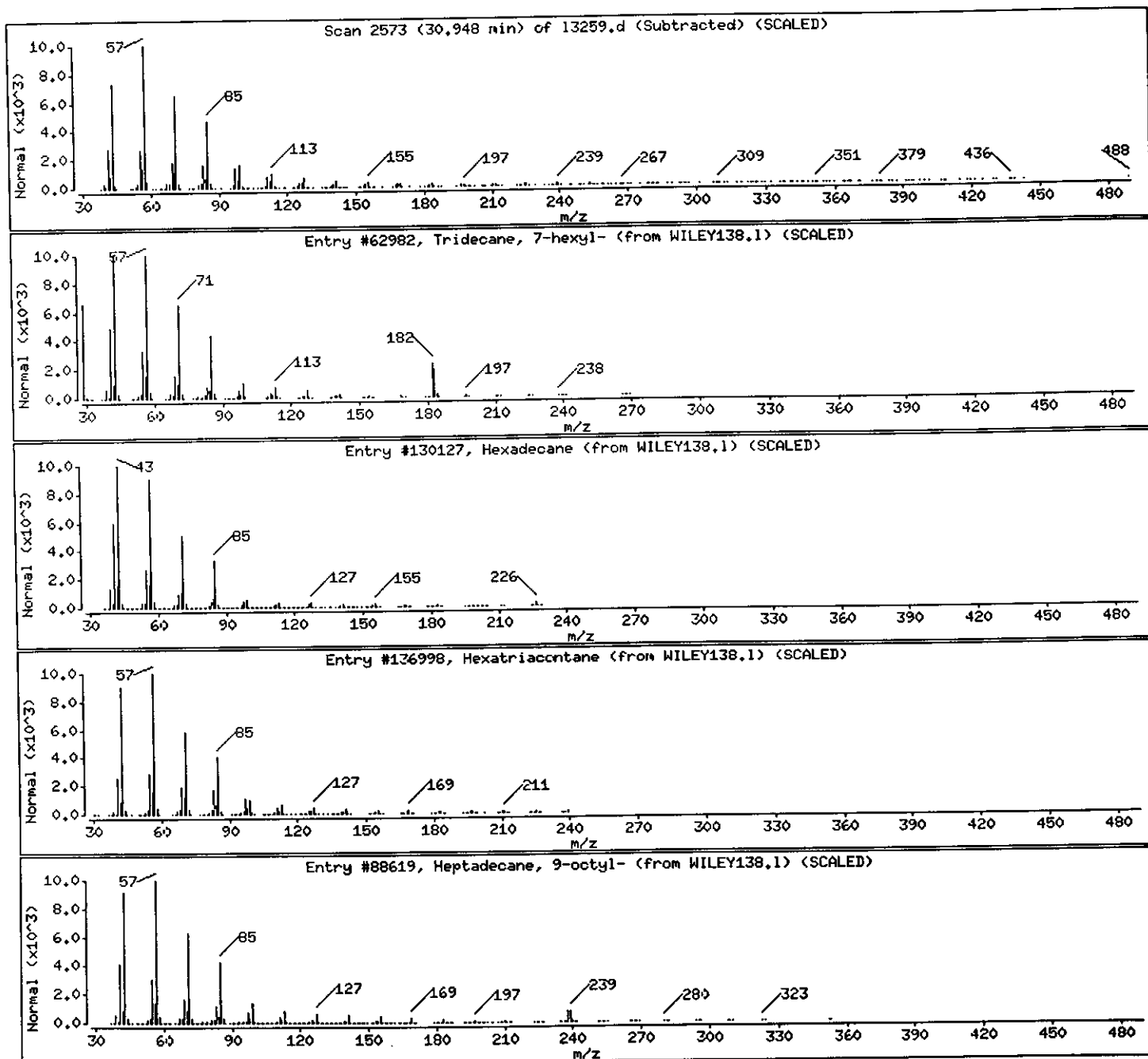
Instrument: BNAMS7.1

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Tridecane, 7-hexyl-	7225-66-3	WILEY138.1	62982	94	C19H40	268
Hexadecane	544-76-3	WILEY138.1	130127	94	C16H34	226
Hexatriacontane	630-06-8	WILEY138.1	136998	94	C36H74	507
Heptadecane, 9-octyl-	7225-64-1	WILEY138.1	88619	94	C25H52	352



Data File: /chem/BNAMS7.1/8270/10-27-00/30oct00A.b/13259.d

Date : 30-OCT-2000 23:29

Client ID: EB-2_Catch_Basin

Instrument: BNAMS7.i

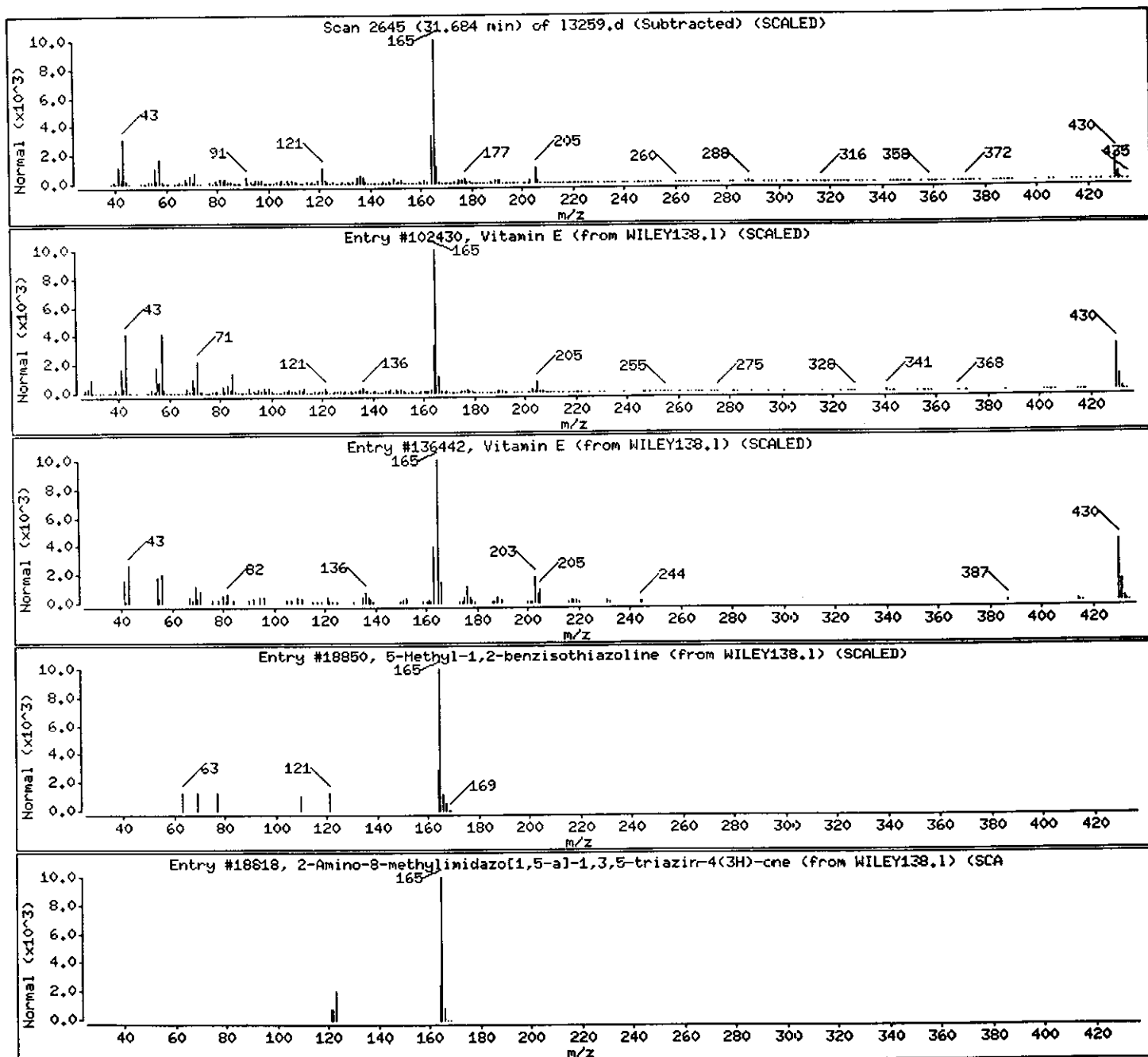
Sample Info: 237813;30;2;1;16.3

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Vitamin E	59-02-9	WILEY138.1	102430	93	C29H50O2	430
Vitamin E	59-02-9	WILEY138.1	136442	76	C29H50O2	430
5-Methyl-1,2-benzisothiazoline	0-00-0	WILEY138.1	18850	59	C8H7NOS	165
2-Amino-8-methylimidazo[1,5-a]-1,3,5-tri	70187-88-1	WILEY138.1	18818	53	C6H7N5O	165



Data File: /chem/BNAMS7.i/8270/10-27-00/30oct00A.b/13259.d

Date : 30-OCT-2000 23:29

Client ID: EB-2_Catch_Basin

Sample Info: 237813;30;2;1;16.3

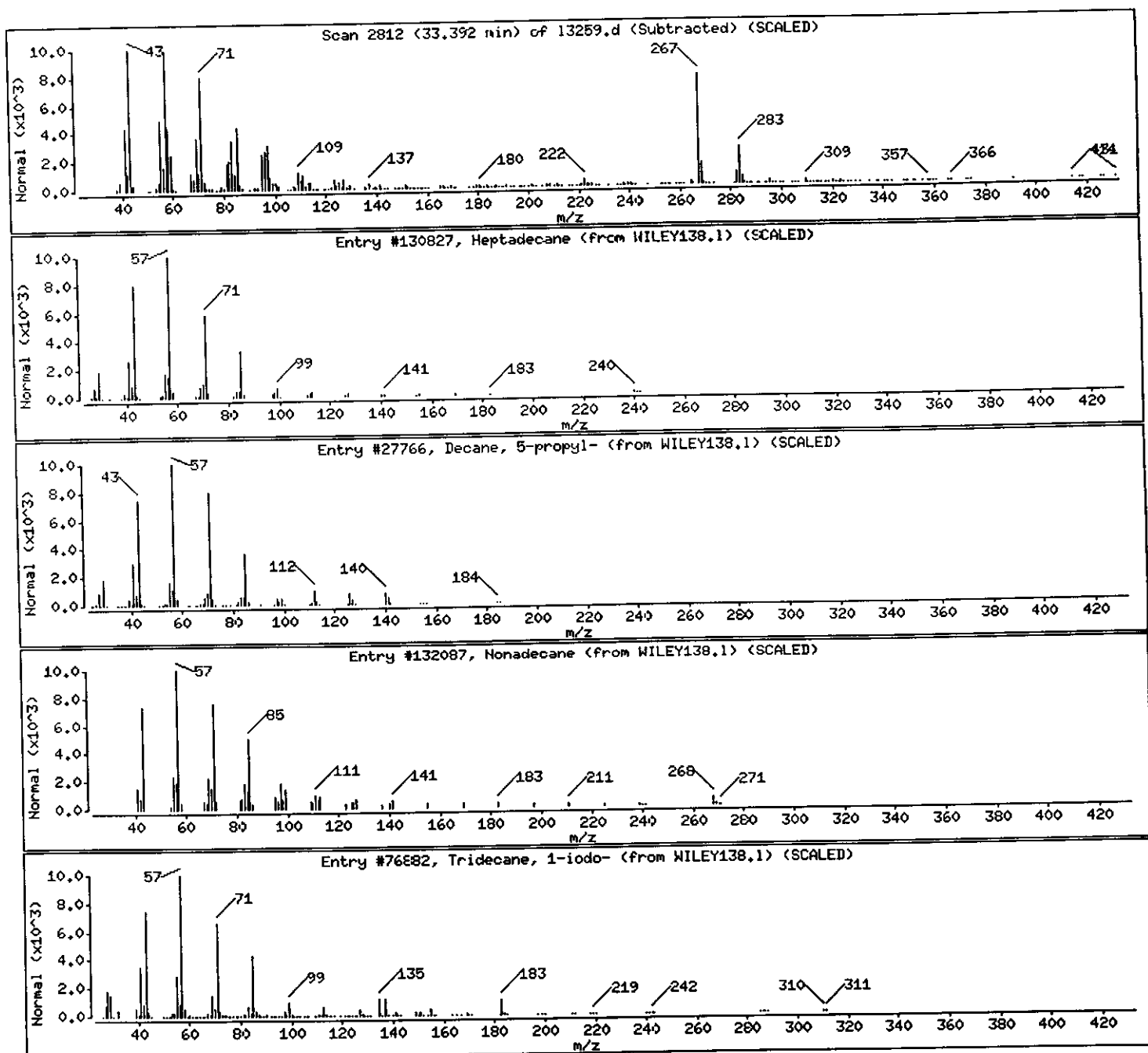
Instrument: BNAMS7.i

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Heptadecane	629-78-7	WILEY138.1	130827	38	C17H36	240
Decane, 5-propyl-	17312-62-8	WILEY138.1	27766	38	C13H28	184
Nonadecane	629-92-5	WILEY138.1	132087	38	C19H40	268
Tridecane, 1-iodo-	35599-77-0	WILEY138.1	76882	25	C13H27I	310



Data File: /chem/BNAMS7.1/8270/10-27-00/30oct00A.b/13259.d

Date : 30-OCT-2000 23:29

Client ID: EB-2_Catch_Basin

Instrument: BNAMS7.i

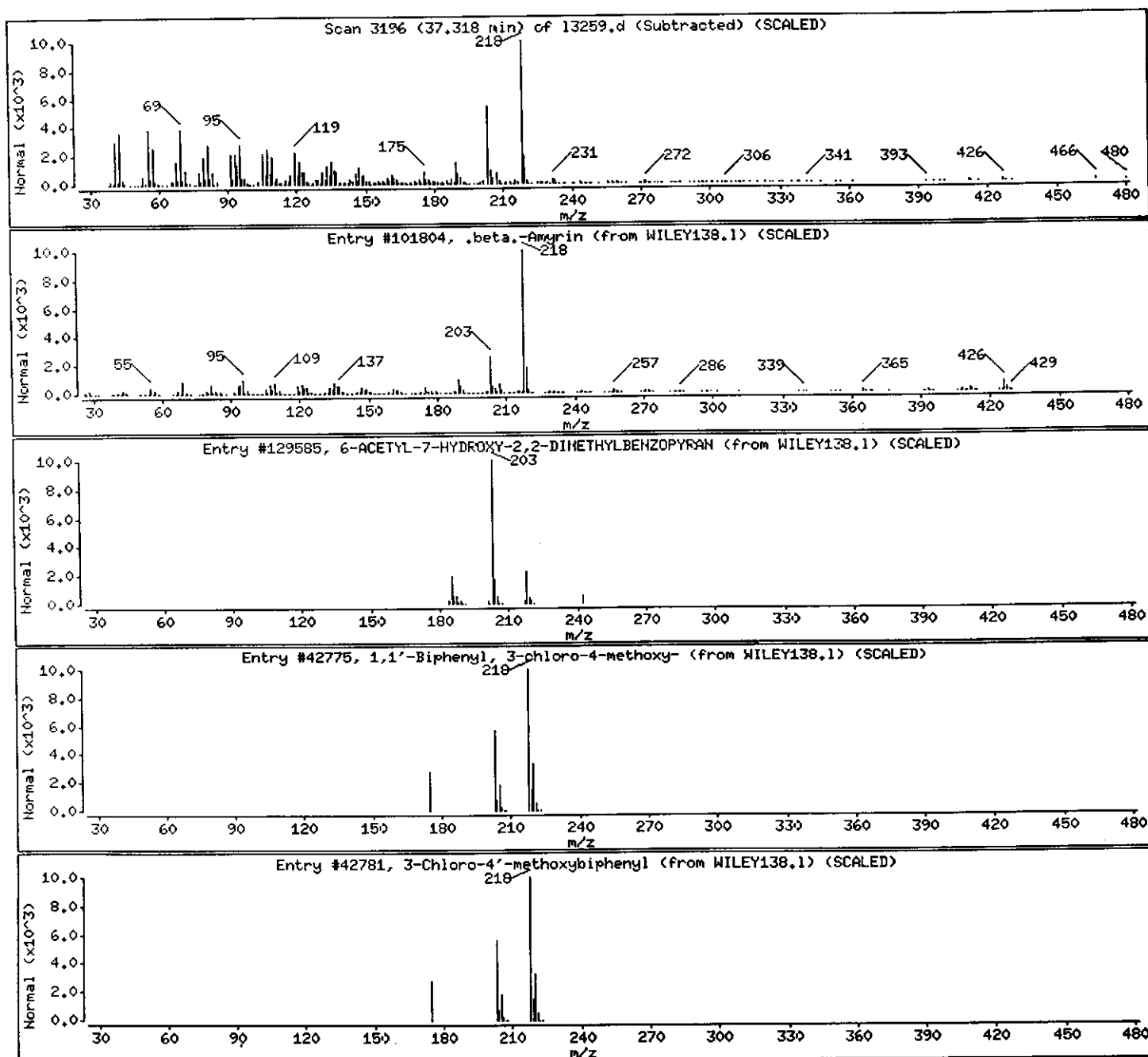
Sample Info: 237813;30;2;1;16.3

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
.beta.-Amyrin	559-70-6	WILEY138.1	101804	98	C30H50O	426
6-ACETYL-7-HYDROXY-2,2-DIMETHYLBENZOPYRA	19013-03-7	WILEY138.1	129585	78	C13H14O3	218
1,1'-Biphenyl, 3-chloro-4-methoxy-	21424-83-9	WILEY138.1	42775	78	C13H11ClO	218
3-Chloro-4'-methoxybiphenyl	74447-84-0	WILEY138.1	42781	78	C13H11ClO	218



Data File: /chem/BNAMS7.1/8270/10-27-00/30oct00A.b/13259.d

Date : 30-OCT-2000 23:29

Client ID: EB-2_Catch_Basin

Sample Info: 237813;30;2;1;16.3

Instrument: BNAMS7.1

Operator: BNAMS 4

Column diameter: 0.25

Column phase: DB-5

Library Search Compound Match

Unknown

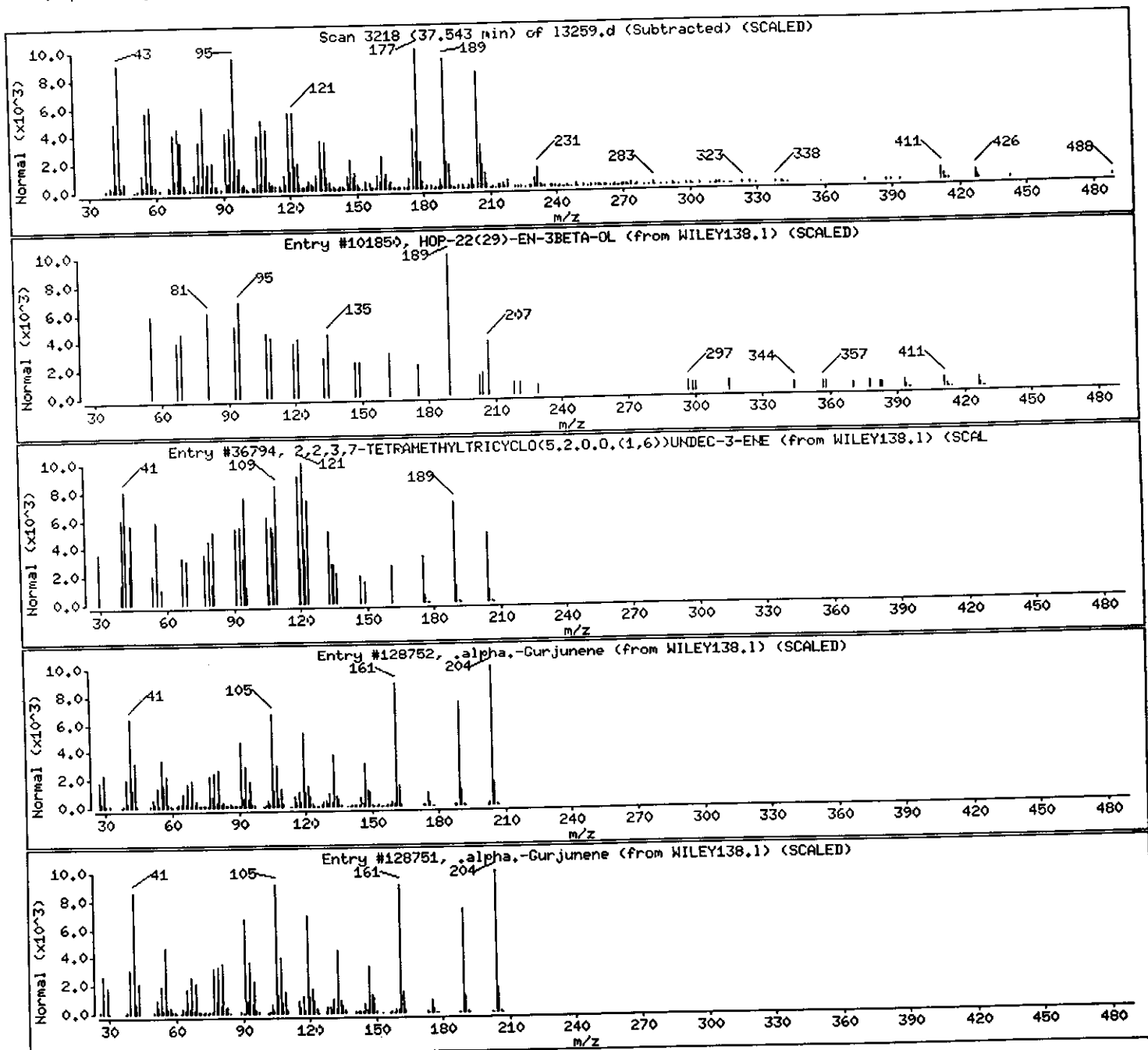
HOP-22(29)-EN-3BETA-OL

2,2,3,7-TETRAMETHYLTRICYCLO(5.2.0.0.(1,6

.alpha.-Gurjunene

.alpha.-Gurjunene

CAS Number	Library	Entry	Quality	Formula	Weight
58801-23-3	WILEY138.1	101850	66	C30H50O	426
0-00-0	WILEY138.1	36794	58	C15H24	204
489-40-7	WILEY138.1	128752	55	C15H24	204
489-40-7	WILEY138.1	128751	46	C15H24	204



Data File: /chem/BNAMS7.1/8270/10-27-00/30oct00A.b/13259.d

Date : 30-OCT-2000 23:29

Client ID: EB-2_Catch_Basin

Sample Info: 237813;30;2;1;16.3

Instrument: BNAMS7.1

Operator: BNAMS 4

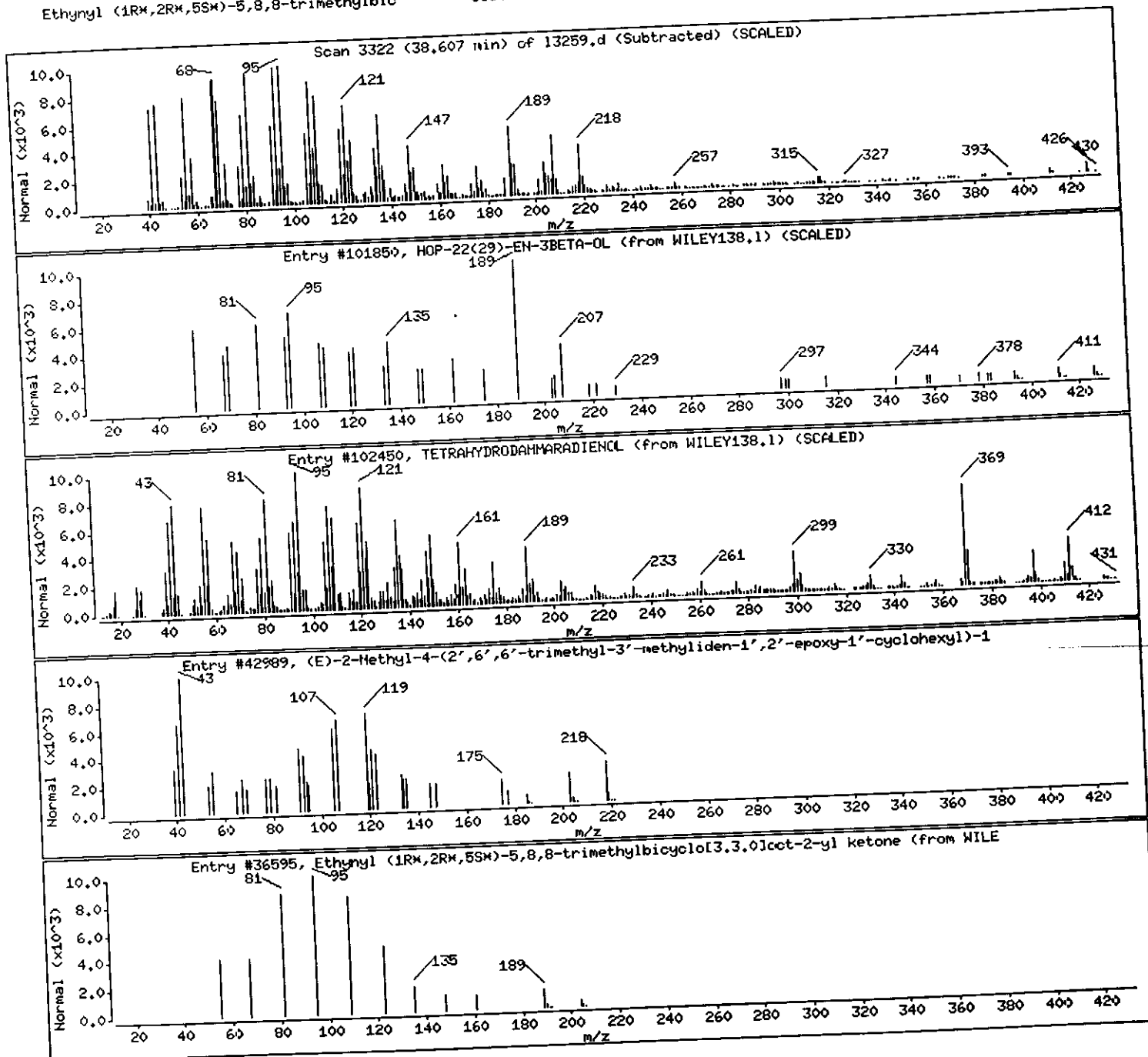
Column diameter: 0.25

Column phase: DB-5

Library Search Compound Match

Unknown
HOP-22(29)-EN-3BETA-OL
TETRAHYDRODAMMARADIENOL
(E)-2-Methyl-4-(2',6',6'-trimethyl-3'-me
Ethylnyl (1R,2R,5S)-5,8,8-trimethylbicy

CAS Number	Library	Entry	Quality	Formula	Weight
58801-23-3	WILEY138.1	101850	89	C30H500	426
0-00-0	WILEY138.1	102450	64	C30H540	430
77822-46-9	WILEY138.1	42989	50	C15H220	218
85544-99-6	WILEY138.1	36595	46	C14H200	204



Client ID: EB-3_16-16.5
Site: Rexam DSI

Lab Sample No: 237814
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 11/01/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: 13292.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 5.0
% Moisture: 23

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u> <u>Units: ug/kg</u>
N-Nitrosodimethylamine	ND		2200
bis(2-Chloroethyl) ether	ND		220
1,3-Dichlorobenzene	ND		2200
1,4-Dichlorobenzene	ND		2200
1,2-Dichlorobenzene	ND		2200
bis(2-chloroisopropyl) ether	ND		2200
N-Nitroso-di-n-propylamine	ND		220
Hexachloroethane	ND		220
Nitrobenzene	ND		220
Isophorone	ND		2200
bis(2-Chloroethoxy) methane	ND		2200
1,2,4-Trichlorobenzene	ND		220
Naphthalene	2300		2200
Hexachlorobutadiene	ND		430
Hexachlorocyclopentadiene	ND		2200
2-Chloronaphthalene	ND		2200
Dimethylphthalate	ND		2200
Acenaphthylene	850	J	2200
2,6-Dinitrotoluene	ND		430
Acenaphthene	250	J	2200
2,4-Dinitrotoluene	ND		430
Diethylphthalate	ND		2200
4-Chlorophenyl-phenylether	ND		2200
Fluorene	850	J	2200
N-Nitrosodiphenylamine	ND		2200
4-Bromophenyl-phenylether	ND		2200
Hexachlorobenzene	ND		220
Phenanthrene	12000		2200
Anthracene	770	J	2200
Di-n-butylphthalate	ND		2200
Fluoranthene	12000		2200
Pyrene	9200		2200
Benzidine	ND		8700
Butylbenzylphthalate	ND		2200

Client ID: EB-3_16-16.5
Site: Rexam DSI

Lab Sample No: 237814
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 11/01/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: 13292.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 5.0
% Moisture: 23

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
3,3'-Dichlorobenzidine	ND	4300
Benzo(a)anthracene	3200	220
Chrysene	3700	2200
bis(2-Ethylhexyl)phthalate	ND	2200
Di-n-octylphthalate	ND	2200
Benzo(b)fluoranthene	4000	220
Benzo(k)fluoranthene	1700	220
Benzo(a)pyrene	2800	220
Indeno(1,2,3-cd)pyrene	1300	220
Dibenz(a,h)anthracene	260	220
Benzo(g,h,i)perylene	1400 J	2200

Client ID: EB-3_16-16.5
Site: Rexam DSI

Lab Sample No: 237814
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 11/01/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: 13292.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 5.0
% Moisture: 23.1

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. 5-Pentyl-1,3-benzenediol	20.22	2300	
2. Unknown Alkane	23.75	2000	
3. Unknown Alkane	24.32	3100	
4. Unknown Alkane	24.89	5500	
5. Unknown Alkane	25.52	4100	
6. Unknown	25.97	2300	
7. Unknown Alkane	26.25	3600	
8. Unknown Alkane	27.10	3300	
9. Unknown Alkane	28.11	4500	
10. C20H12 PAH	28.62	2600	
11. Unknown Alkane	29.32	2400	
12. Unknown	31.16	2600	
13. Unknown Alkane/Unknown	32.56	3800	
14. Unknown Sterol	35.80	2700	
15. Unknown	37.09	3700	
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

48500

Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00a.b/l3292.d
 Report Date: 01-Nov-2000 08:33

STL Edison

SEMI-VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/BNAMS7.i/8270/10-27-00/31oct00a.b/l3292.d
 Lab Smp Id: 237814 Client Smp ID: EB-3_16-16.5
 Inj Date : 01-NOV-2000 01:55
 Operator : BNAMS 4 Inst ID: BNAMS7.i
 Smp Info : 237814;30;2;5;23.1;
 Misc Info : F104;PPBN+15;6924;114
 Comment :
 Method : /chem/BNAMS7.i/8270/10-27-00/31oct00a.b/8270C1.m
 Meth Date : 31-Oct-2000 16:52 eddie Quant Type: ISTD
 Cal Date : 27-OCT-2000 12:29 Cal File: l3224.d
 Als bottle: 13
 Dil Factor: 5.00000
 Integrator: HP RTE
 Target Version: 3.50
 Processing Host: hpd1

Compound Sublist: PPBNb.sub

Concentration Formula: Amt * DF * Uf*1000*Vt/(Ws*(100-M)/100) * CpndVariable

Name	Value	Description
DF	5.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	2.00000	Volume of final extract (ml)
Ws	30.00000	Weight of sample extracted (g)
M	23.10000	% Moisture

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN FINAL (ug/ml) (ug/Kg)
* 79 1,4-Dichlorobenzene-d4	152	13.162	13.177	(1.000)	352931	40.0000	
\$ 76 Nitrobenzene-d5 (SUR)	82	14.113	14.138	(0.920)	142062	9.50511	4100
* 80 Naphthalene-d8	136	15.340	15.355	(1.000)	1444909	40.0000	
31 Naphthalene	128	15.381	15.396	(1.003)	193847	5.38878	2300
\$ 77 2-Fluorobiphenyl (SUR)	172	17.130	17.155	(0.937)	215825	9.04744	3900
39 Acenaphthylene	152	18.050	18.065	(0.987)	73664	1.95605	850(a)
* 82 Acenaphthene-d10	164	18.285	18.300	(1.000)	877436	40.0000	
42 Acenaphthene	153	18.336	18.351	(1.003)	13482	0.57079	250(a)
47 Fluorene	166	19.185	19.210	(1.049)	51726	1.95755	850(a)
* 83 Phenanthrene-d10	188	20.770	20.774	(1.000)	1614841	40.0000	
52 Phenanthrene	178	20.811	20.825	(1.002)	1119132	28.3139	12000
53 Anthracene	178	20.882	20.907	(1.005)	70557	1.76896	770(a)
56 Fluoranthene	202	22.784	22.799	(1.097)	1142832	27.1251	12000

Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00a.b/13292.d
 Report Date: 01-Nov-2000 08:33

Compounds	QUANT SIG				CONCENTRATIONS		
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	----	--	-----	-----	-----	-----	-----
57 Pyrene	202	23.173	23.187	(0.918)	963818	21.1675	9200
\$ 78 Terphenyl-d14 (SUR)	244	23.387	23.402	(0.927)	300434	8.59941	3700
61 Benzo(a)anthracene	228	25.218	25.232	(0.999)	330739	7.38353	3200
* 81 Chrysene-d12	240	25.238	25.263	(1.000)	1719888	40.0000	
62 Chrysene	228	25.289	25.314	(1.002)	358364	8.61738	3700
65 Benzo(b)fluoranthene	252	27.784	27.819	(0.957)	329643	9.30875	4000
66 Benzo(k)fluoranthene	252	27.846	27.911	(0.959)	164708	3.90132	1700 (M)
67 Benzo(a)pyrene	252	28.797	28.852	(0.992)	228968	6.53005	2800
* 84 Perylene-d12	264	29.021	29.046	(1.000)	1360485	40.0000	
68 Indeno(1,2,3-cd)pyrene	276	33.459	33.556	(1.153)	104178	3.08401	1300
69 Dibenz(a,h)anthracene	278	33.561	33.709	(1.156)	20004	0.59881	260 (M)
70 Benzo(g,h,i)perylene	276	34.850	35.018	(1.201)	111350	3.24090	1400 (aM)

QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- M - Compound response manually integrated.

Data File: /chem/BNHMS7.i/8270/10-27-00/31oct00a.b/13292.d

Date : 01-NOV-2000 01:55

Client ID: EB-3_16-16.5

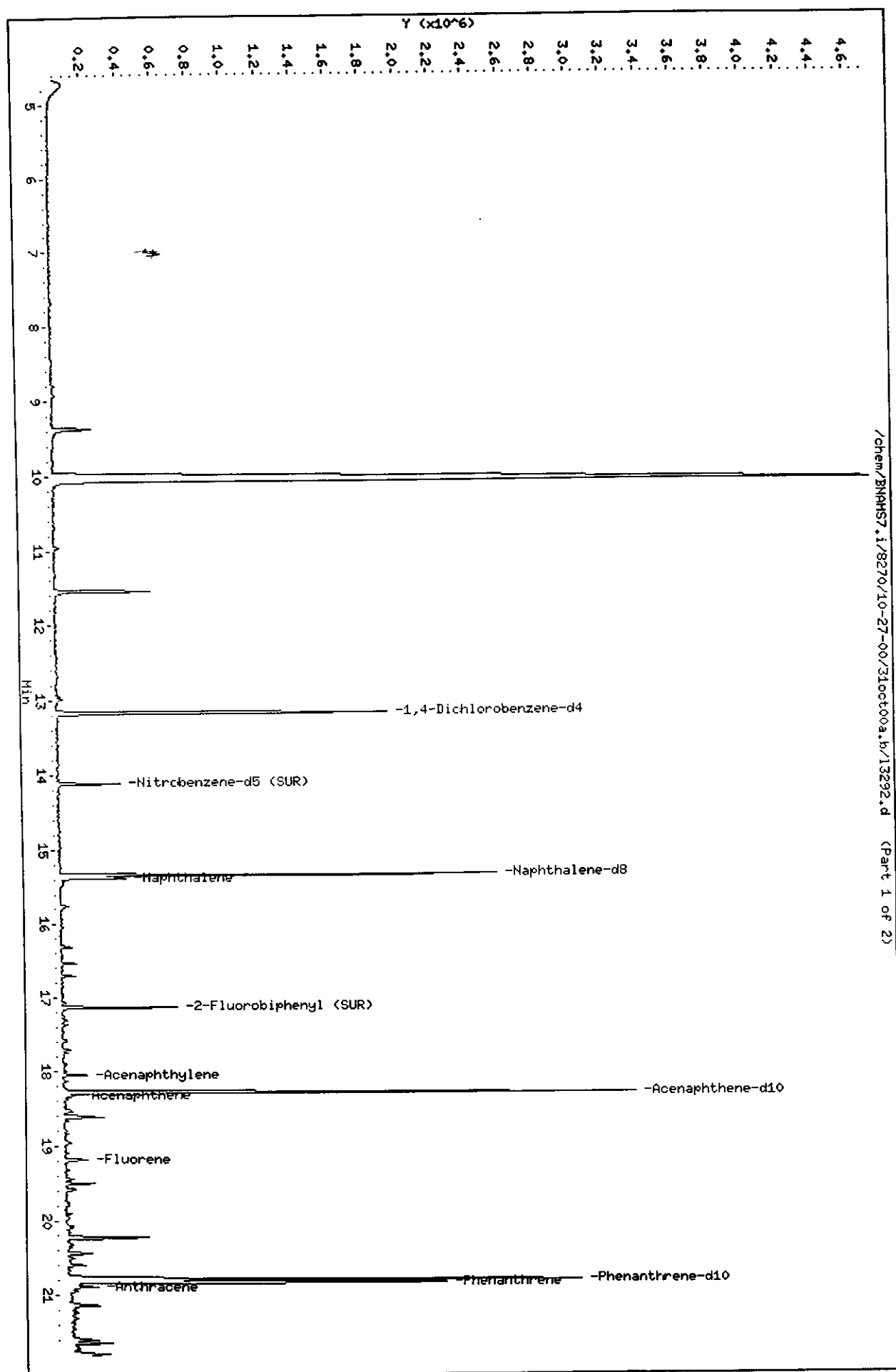
Sample Info: 237814;30;2;5;23.1;

Column phase: DB-5

Instrument: BNHMS7.i

Operator: BNHMS 4

Column diameter: 0.25



Data File: /chem/BNHMS7.1/8270/10-27-00/31oct00a.b/13292.d

Date : 01-NOV-2000 01:55

Client ID: EB-3-16-16.5

Sample Info: 237814;30;23;23.1;

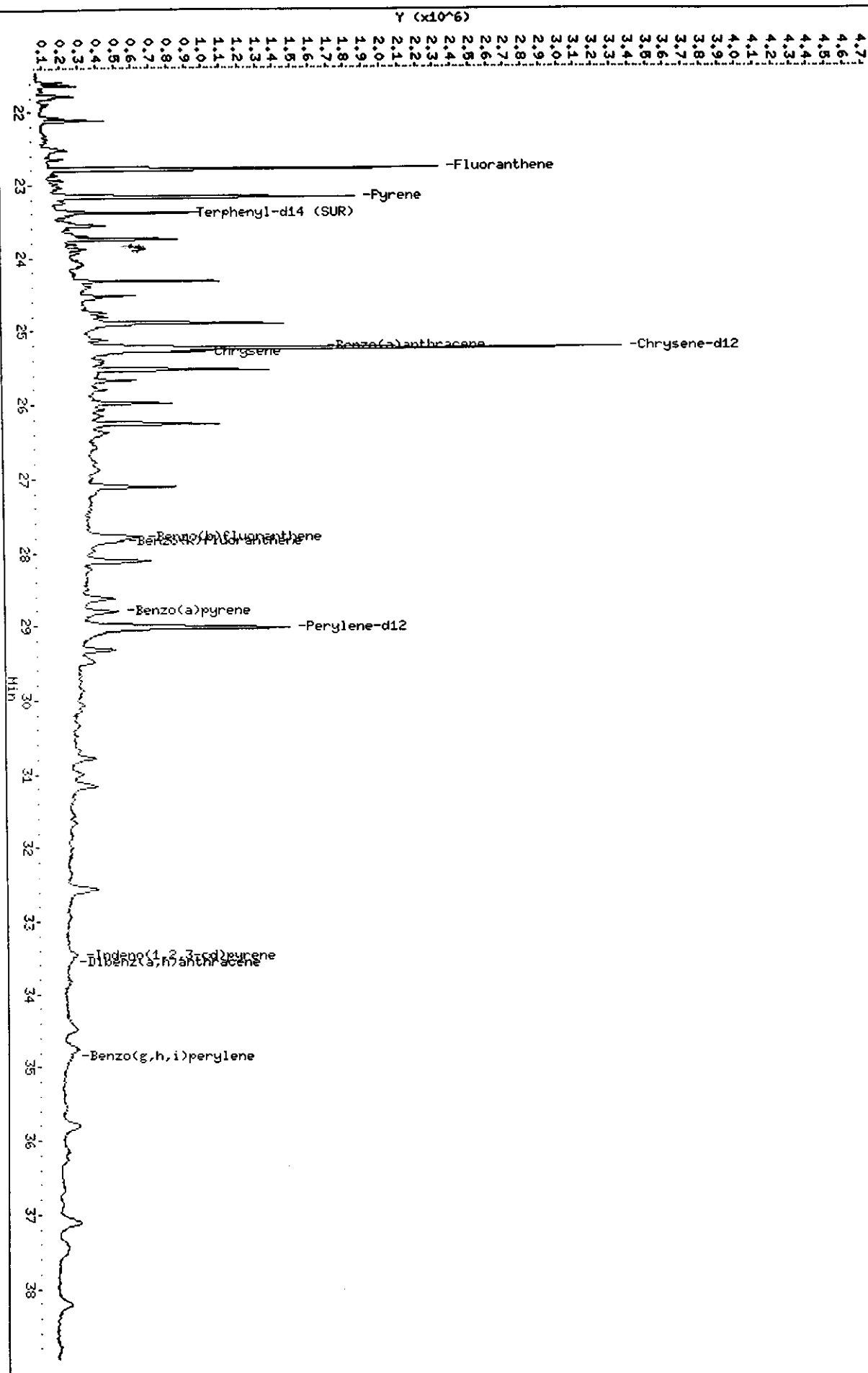
Column phase: DB-5

Instrument: BNHMS7.1

Operator: BNHMS 4

Column diameter: 0.25

/chem/BNHMS7.1/8270/10-27-00/31oct00a.b/13292.d (Part 2 of 2)



Data File: /chem/BNAMS7.1/8270/10-27-00/31oct00a.b/13292.d

Date : 01-NOV-2000 01:55

Client ID: EB-3_16-16.5

Sample Info: 237814;30;2;5;23.1;

Instrument: BNAMS7.i

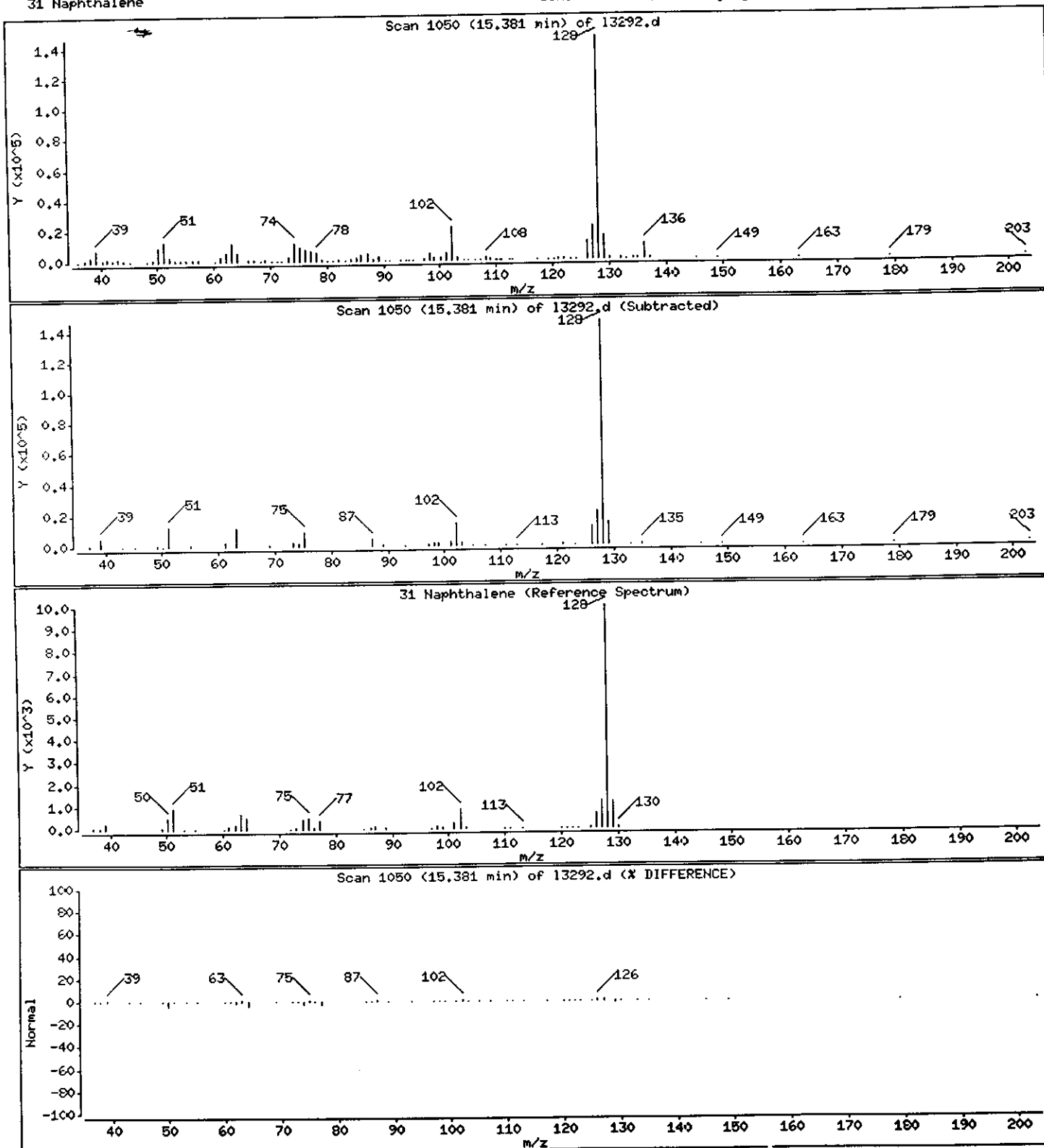
Operator: BNAMS 4

Column diameter: 0.25

Column phase: DB-5

Concentration: 2300 ug/Kg

31 Naphthalene



Data File: /chem/BNAMS7.1/8270/10-27-00/31oct00a,b/13292.d

Date : 01-NOV-2000 01:55

Client ID: EB-3_16-16.5

Sample Info: 237814;30;2;5;23.1;

Instrument: BNAMS7.1

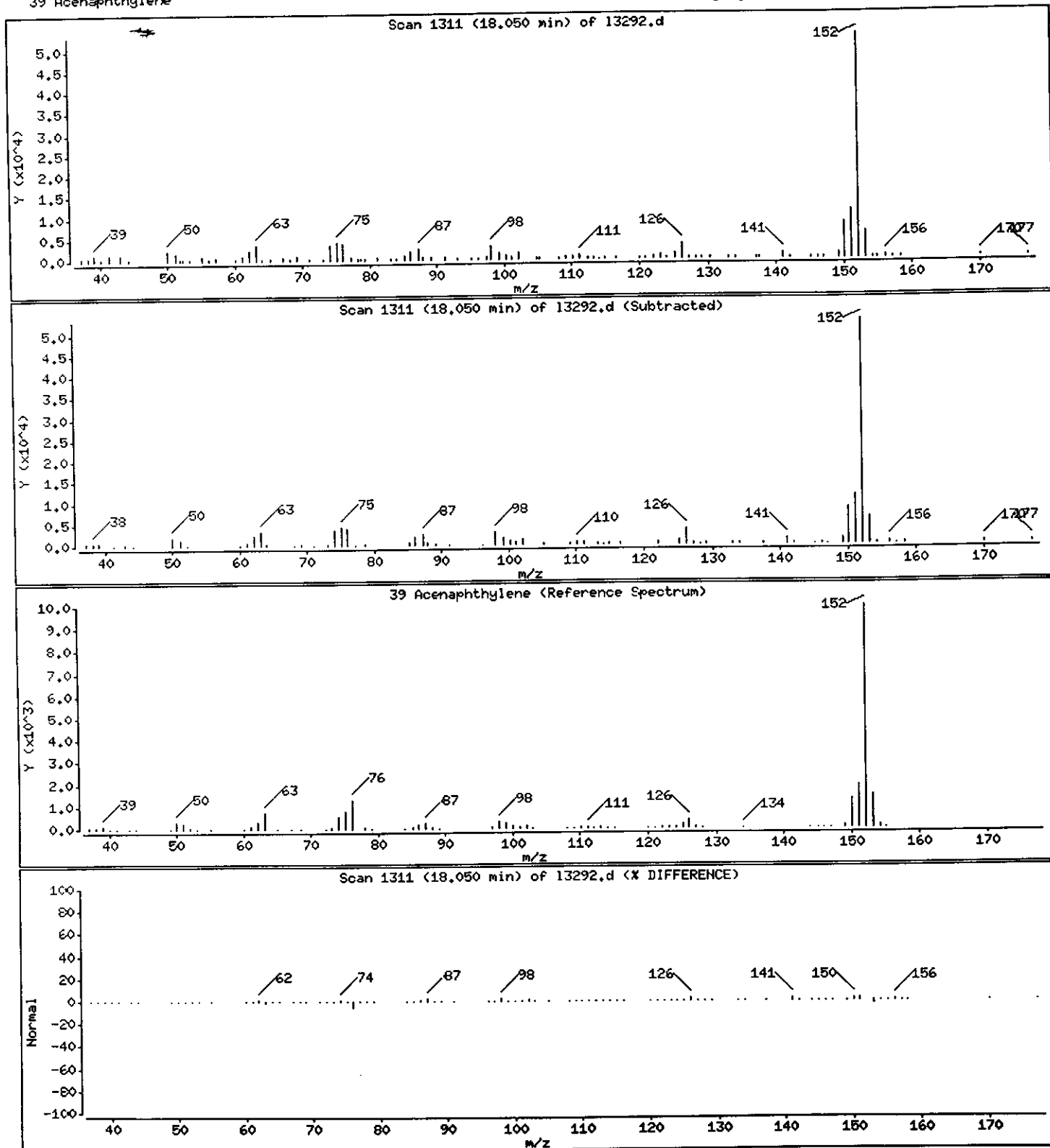
Operator: BNAMS 4

Column diameter: 0.25

Column phase: DB-5

Concentration: 850 ug/Kg

39 Acenaphthylene



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00a,b/13292.d

Date : 01-NOV-2000 01:55

Client ID: EB-3_16-16.5

Instrument: BNAMS7.i

Sample Info: 237814;30;2;5;23.1;

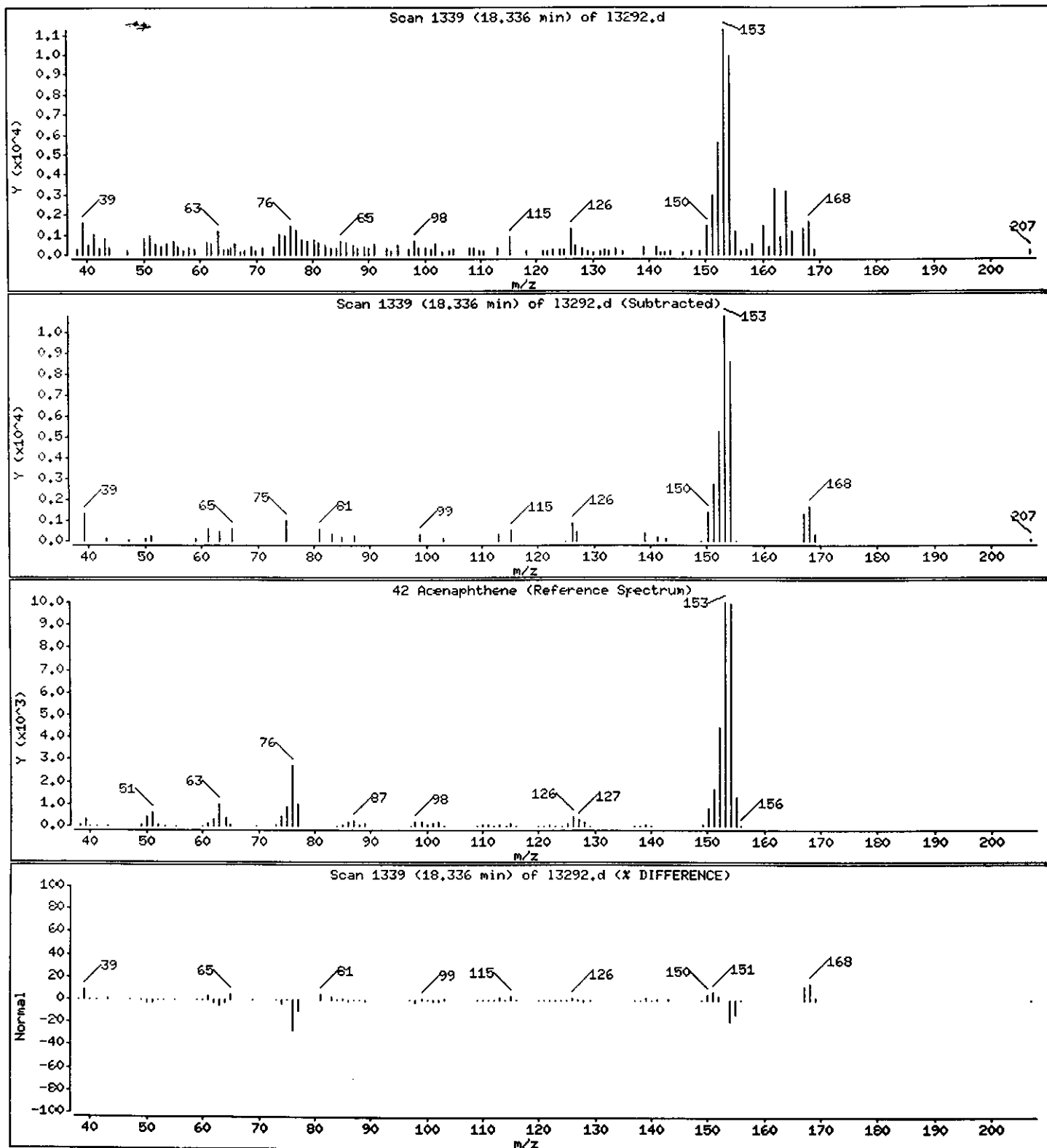
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

42 Acenaphthene

Concentration: 250 ug/Kg



Data File: /chem/BNAMS7.1/8270/10-27-00/31oct00a,b/13292.d

Date: 01-NOV-2000 01:55

Client ID: EB-3_16-16.5

Sample Info: 237814;30;2;5;23.1;

Instrument: BNAMS7.1

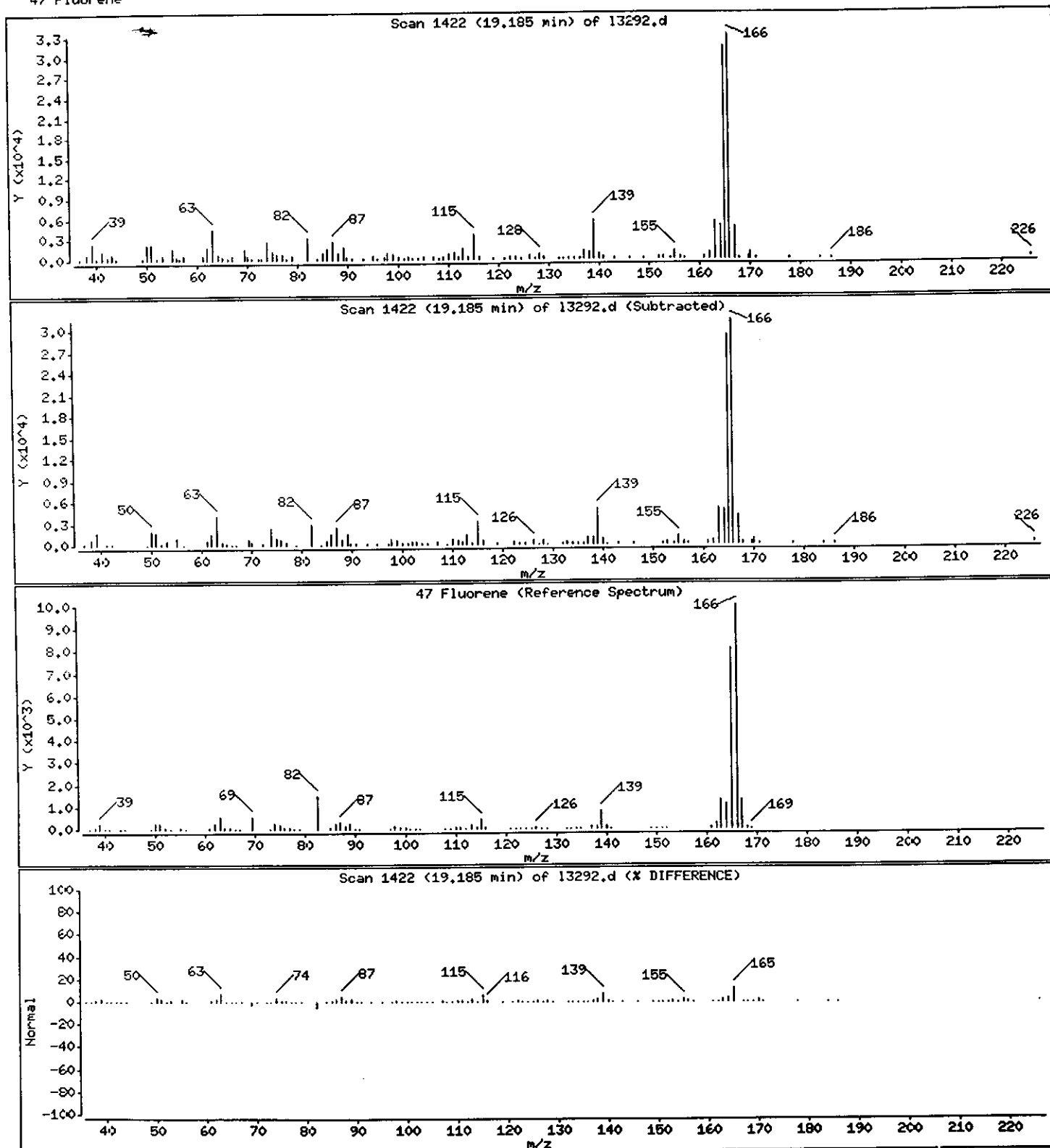
Operator: BNAMS 4

Column diameter: 0.25

Column phase: DB-5

Concentration: 850 ug/Kg

47 Fluorene



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00a,b/13292.d

Date : 01-NOV-2000 01:55

Client ID: EB-3_16-16.5

Sample Info: 237814;30;2;5;23.1;

Instrument: BNAMS7.i

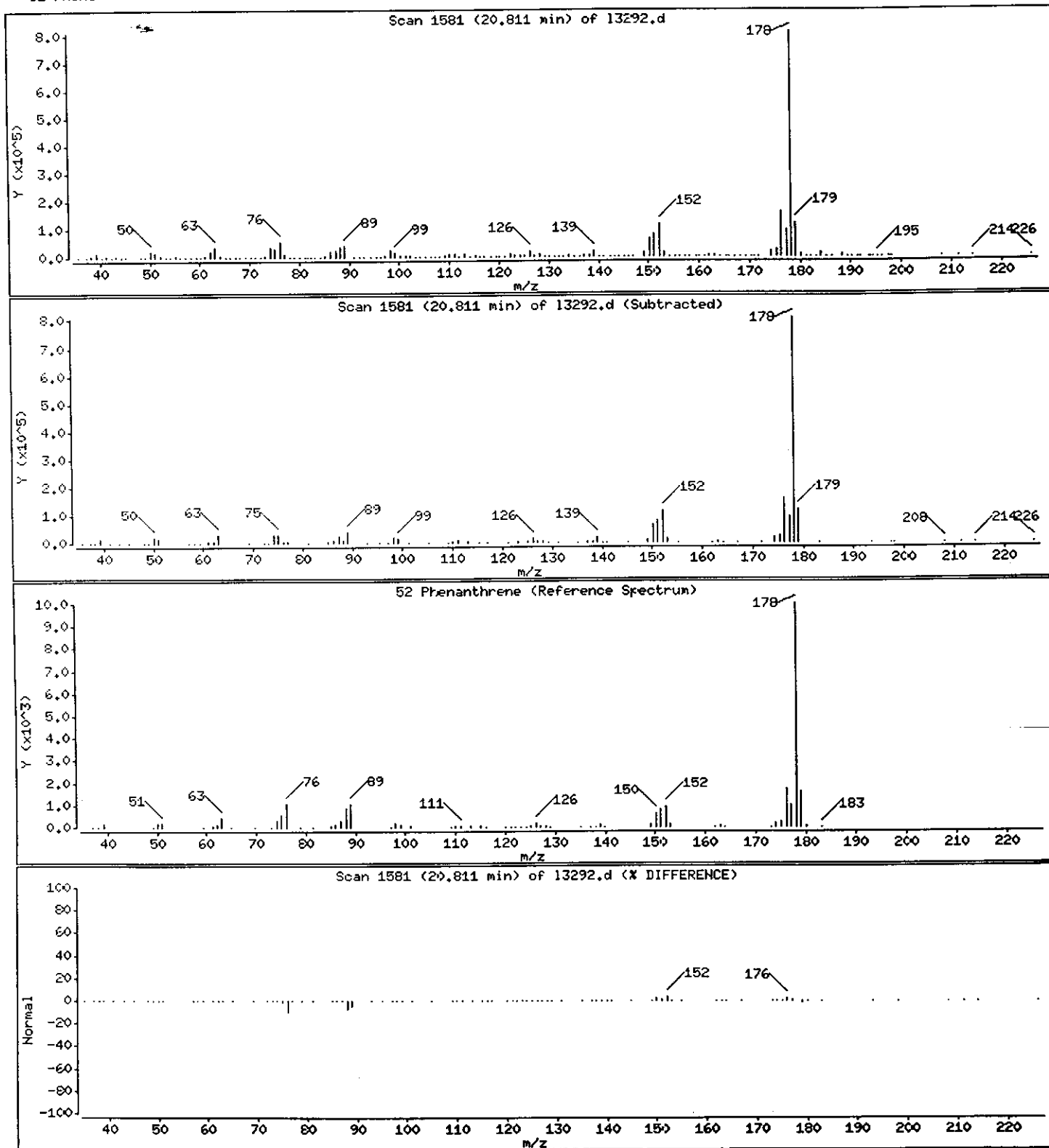
Operator: BNAMS 4

Column diameter: 0.25

Column phase: DB-5

52 Phenanthrene

Concentration: 12000 ug/Kg



Data File: /chem/BNHMS7.i/8270/10-27-00/31oct00a,b/13292.d

Date : 01-NOV-2000 01:55

Client ID: EB-3_16-16.5

Instrument: BNHMS7.i

Sample Info: 237814;30;2;5;23.1;

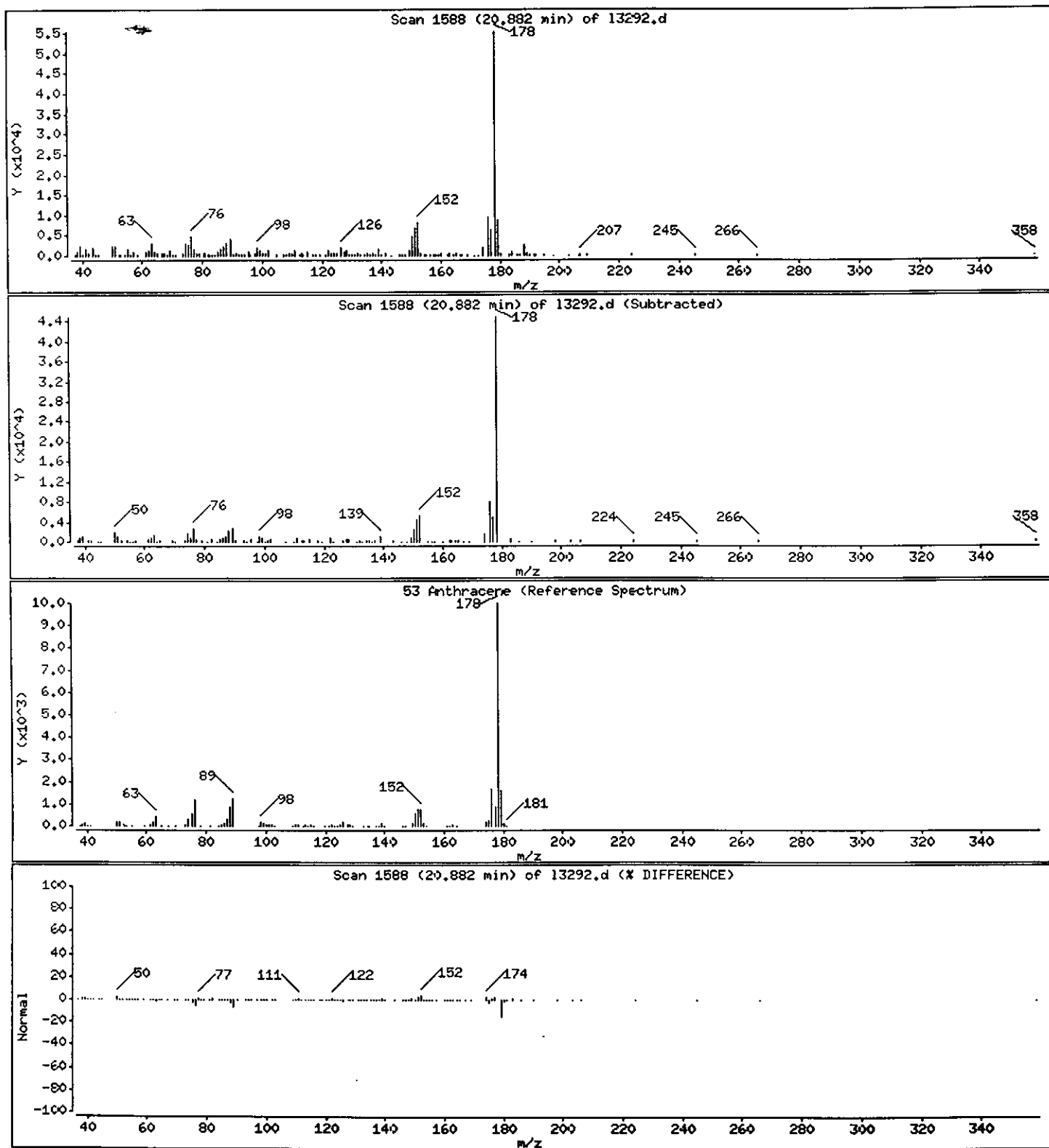
Operator: BNHMS 4

Column phase: DB-5

Column diameter: 0.25

53 Anthracene

Concentration: 770 ug/Kg



Data File: /chem/BNAMS7.1/8270/10-27-00/31oct00a,b/13292.d

Date : 01-NOV-2000 01:58

Client ID: EB-3_16-16.5

Sample Info: 237814;30;2;5;23.1;

Instrument: BNAMS7.1

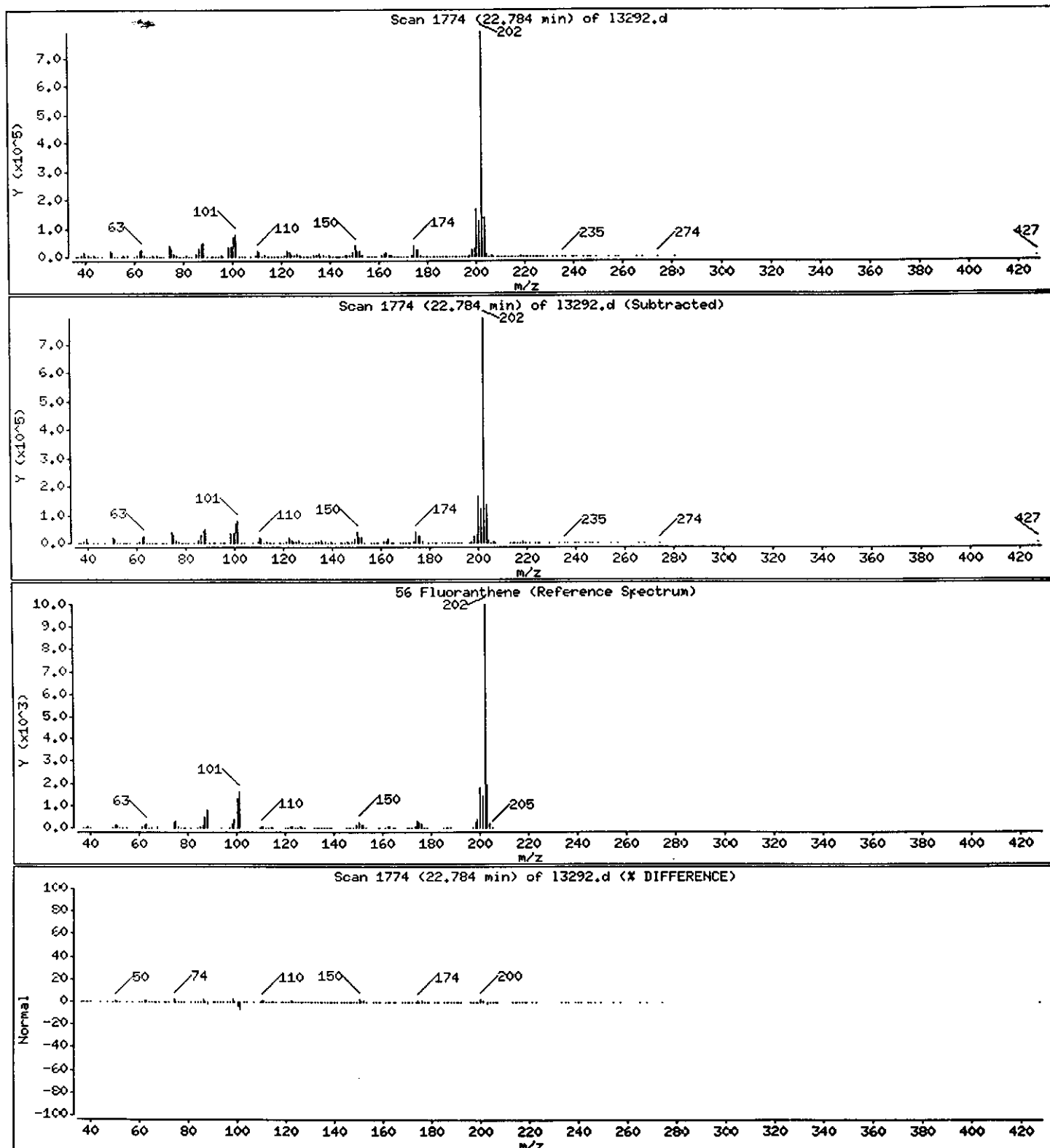
Operator: BNAMS 4

Column diameter: 0.25

Column phase: DB-5

Concentration: 12000 ug/Kg

56 Fluoranthene



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00a,b/13292.d

Date : 01-NOV-2000 01:55

Client ID: EB-3_16-16.5

Instrument: BNAMS7.i

Sample Info: 237814;30;2;5;23,1;

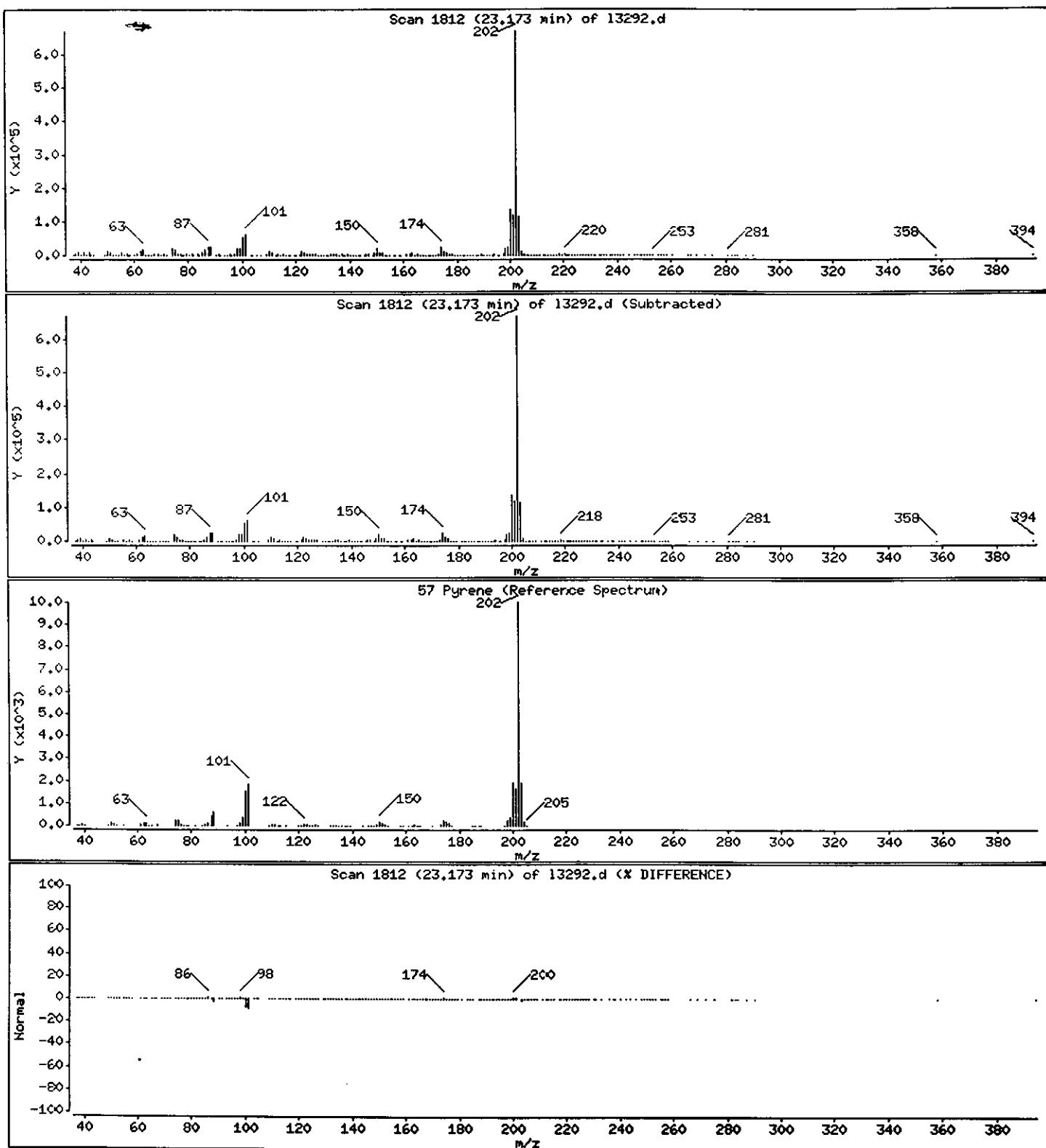
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

57 Pyrene

Concentration: 9200 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00a,b/13292.d

Date : 01-NOV-2000 01:55

Client ID: EB-3_16-16,5

Sample Info: 237814;30;2;5;23,1;

Instrument: BNAMS7.i

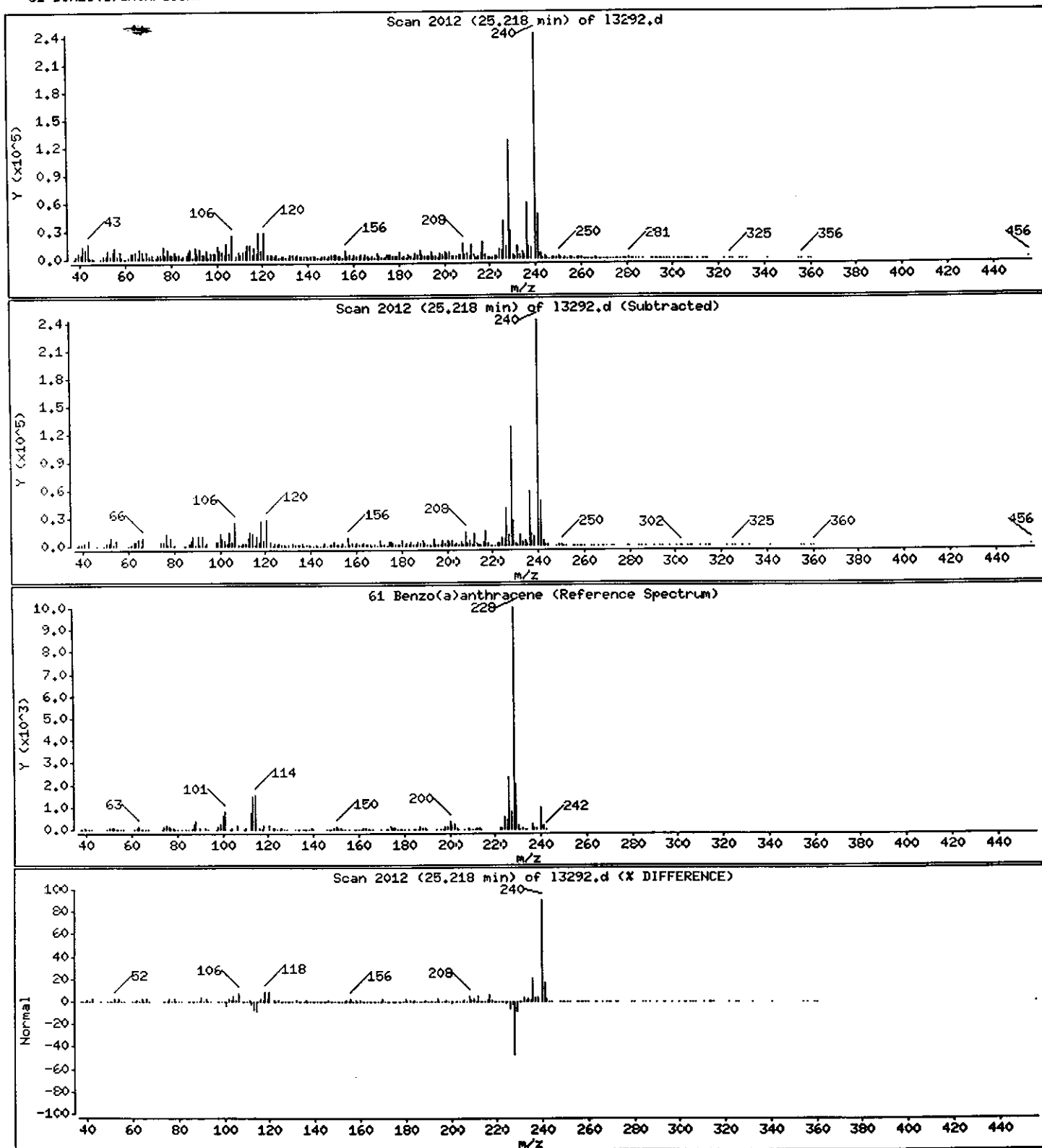
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

61 Benzo(a)anthracene

Concentration: 3200 ug/Kg



Data File: /chem/BNAMS7.1/8270/10-27-00/31oct00a,b/13292.d

Date : 01-NOV-2000 01:55

Client ID: EB-3_16-16.5

Sample Info: 237814;30;2;5;23,1;

Instrument: BNAMS7.i

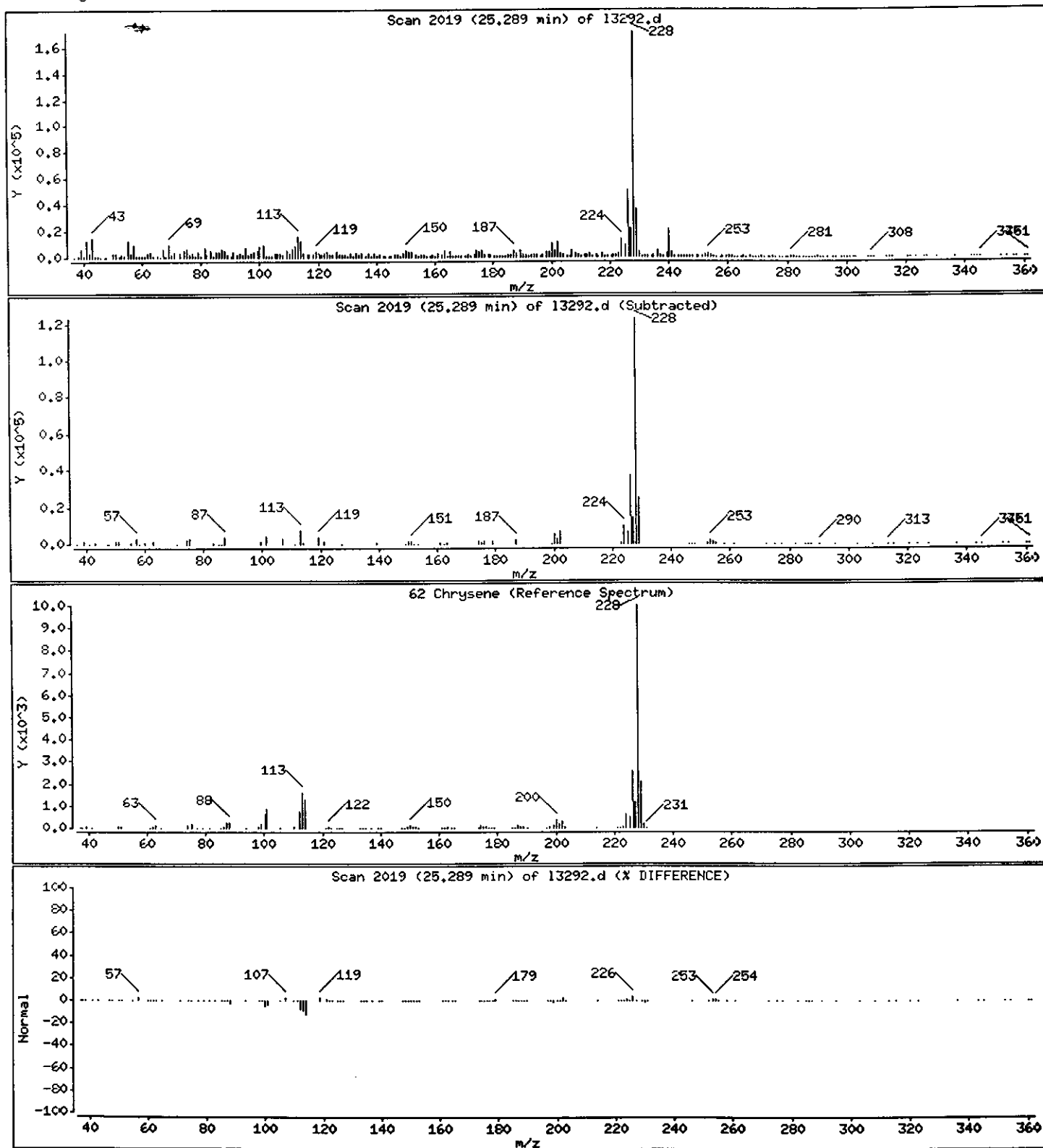
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

62 Chrysene

Concentration: 3700 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00a.b/13292.d

Date : 01-NOV-2000 01:55

Client ID: EB-3_16-16.5

Instrument: BNAMS7.i

Sample Info: 237814;30;2;5;23.1;

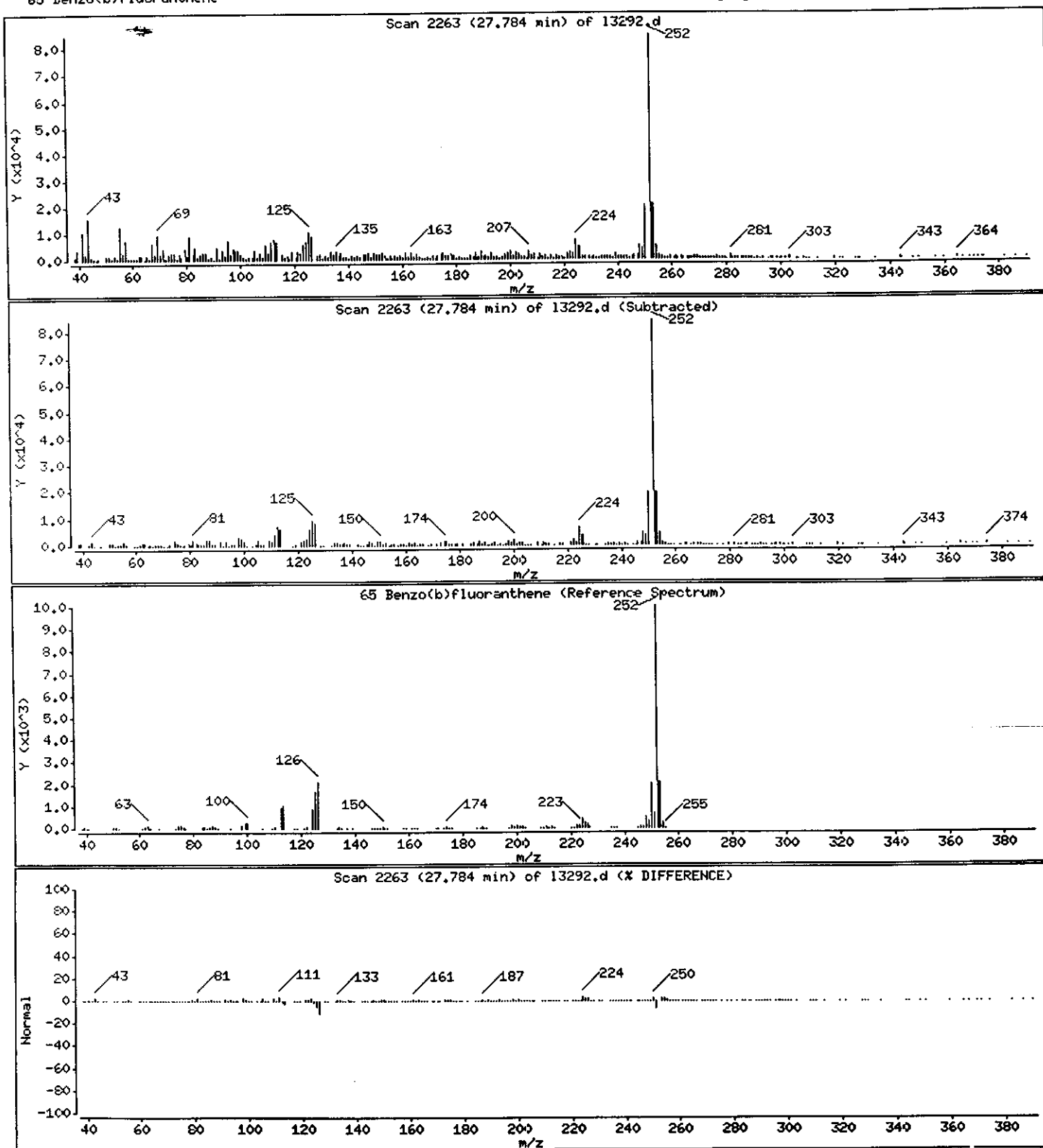
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

65 Benzo(b)fluoranthene

Concentration: 4000 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00a,b/13292.d

Date : 01-NOV-2000 01:55

Client ID: EB-3_16-16.5

Sample Info: 237814;30;2;5;23.1;

Instrument: BNAMS7.i

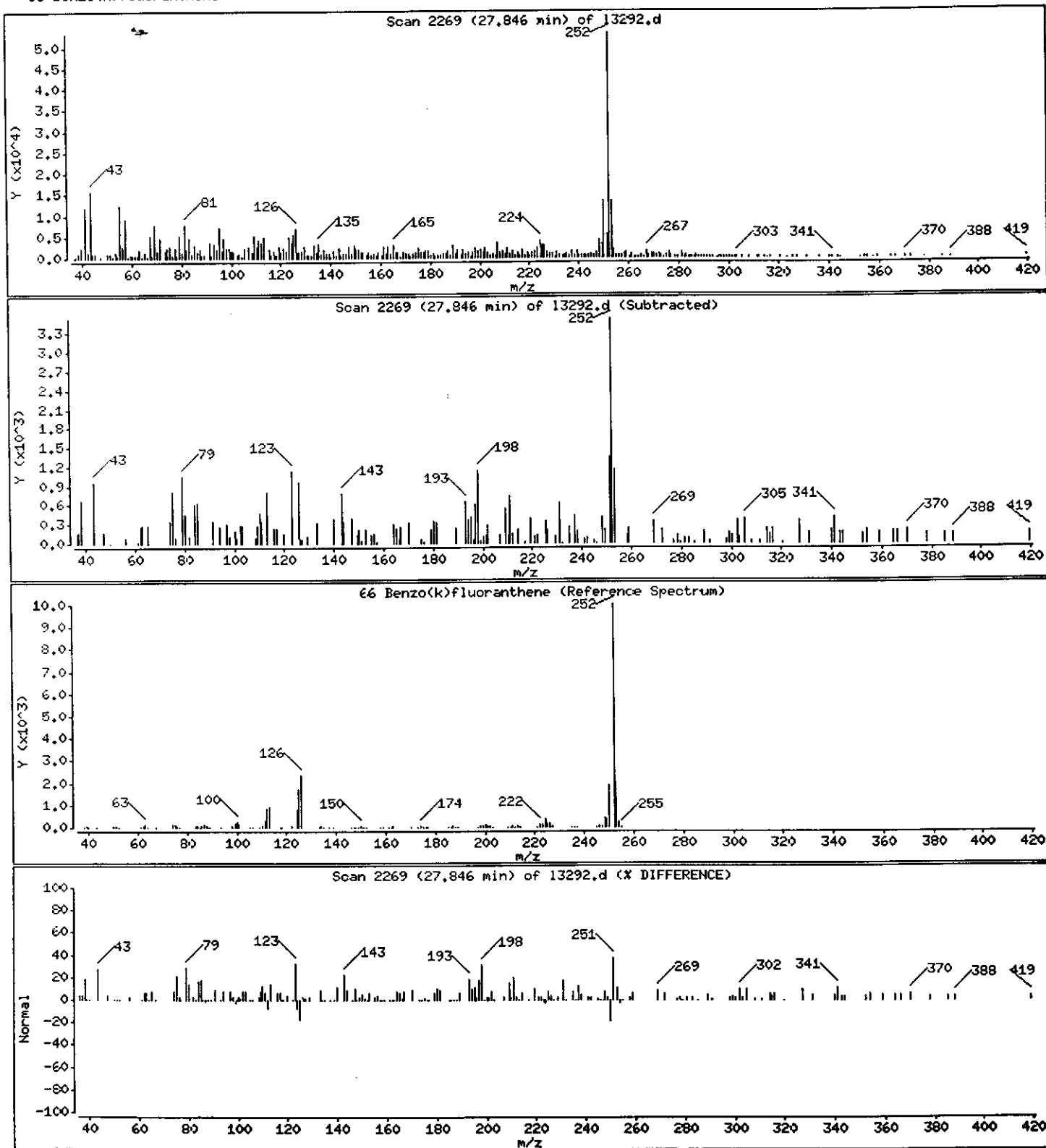
Operator: BNAMS 4

Column diameter: 0.25

Column phase: DB-5

Concentration: 1700 ug/Kg

66 Benzo(k)fluoranthene



Data File: /chem/BNAMS7.1/8270/10-27-00/31oct00a.b/13292.d

Date : 01-NOV-2000 01:55

Client ID: EB-3_16-16.5

Sample Info: 237814;30;2;5;23.1;

Instrument: BNAMS7.1

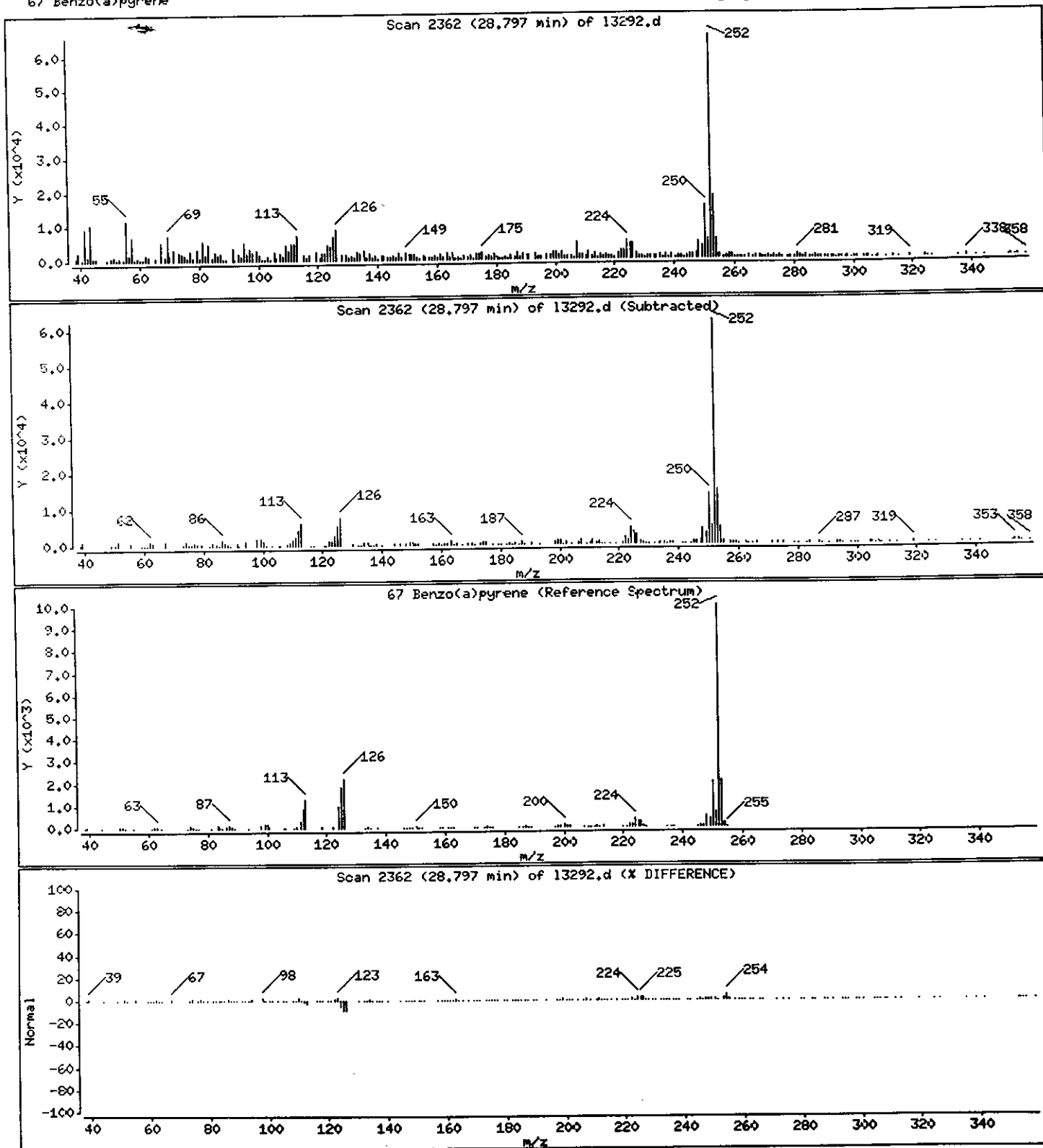
Operator: BNAMS 4

Column diameter: 0.25

Column phase: DB-5

Concentration: 2800 ug/Kg

67 Benzo(a)pyrene



Data File: /chem/ENAMS7.1/8270/10-27-00/31oct00a,b/13292.d

Date : 01-NOV-2000 01:55

Client ID: EB-3_16-16,5

Sample Info: 237814;30;2;5;23,1;

Instrument: ENAMS7.1

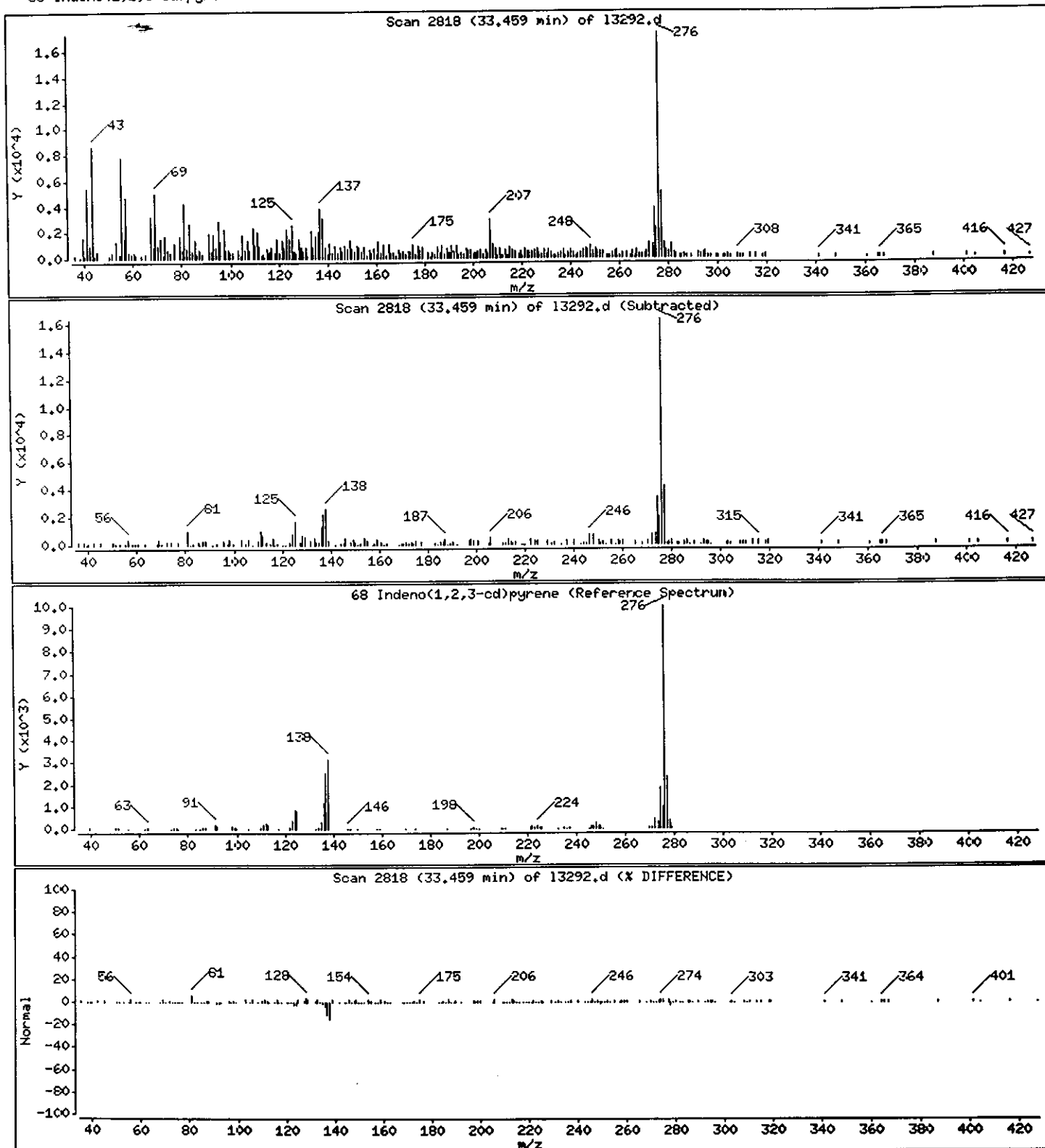
Operator: BNAMS 4

Column diameter: 0.25

Column phase: DB-5

Concentration: 1300 ug/Kg

68 Indeno(1,2,3-cd)pyrene



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00a,b/13292.d

Date : 01-NOV-2000 01:55

Client ID: EB-3_16-16.5

Instrument: BNAMS7.1

Sample Info: 237814;30;2;5;23.1;

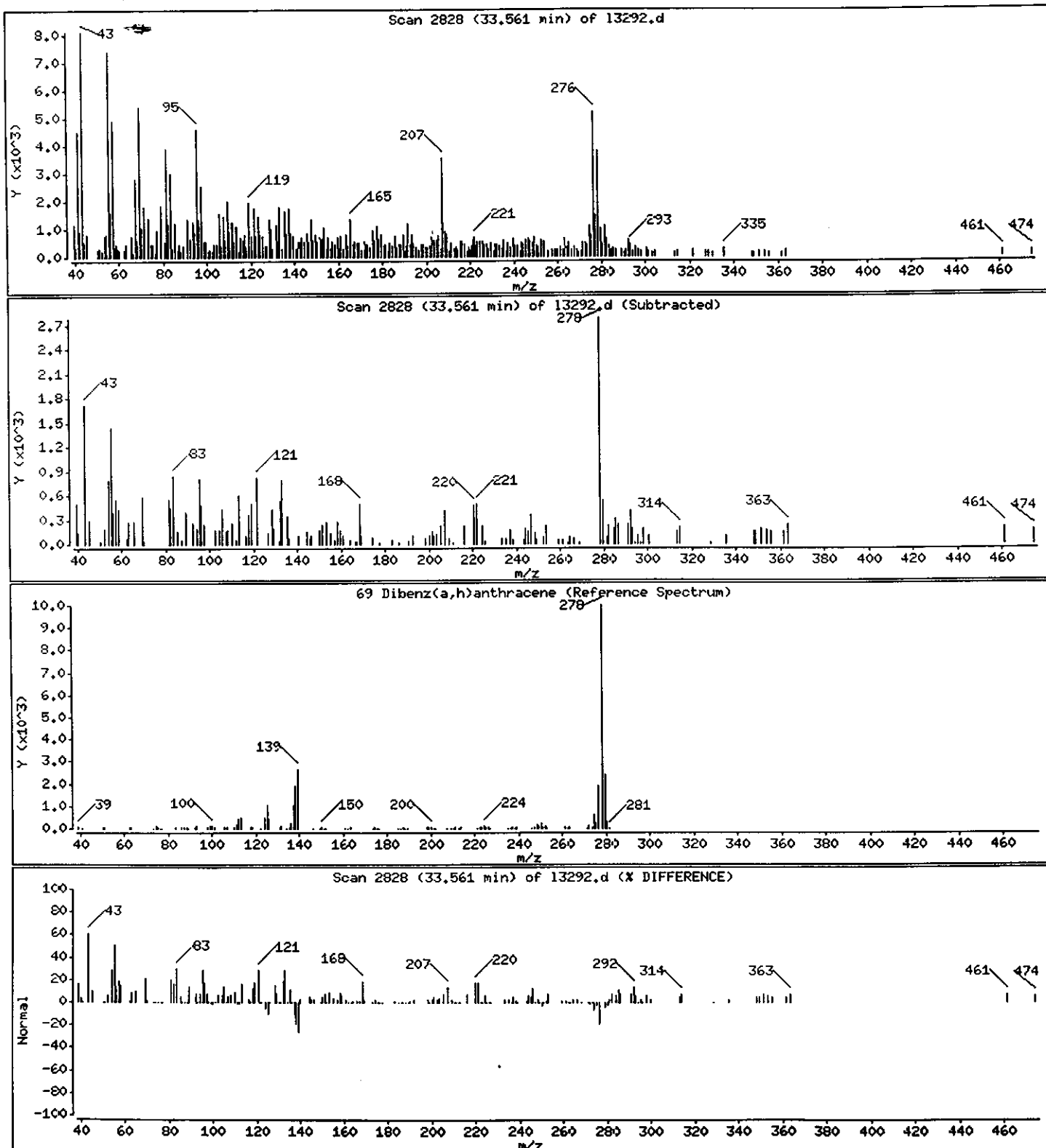
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

69 Dibenz(a,h)anthracene

Concentration: 260 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00a,b/13292.d

Date : 01-NOV-2000 01:55

Client ID: EB-3_16-16.5

Sample Info: 237814;30;2;5;23.1;

Instrument: BNAMS7.i

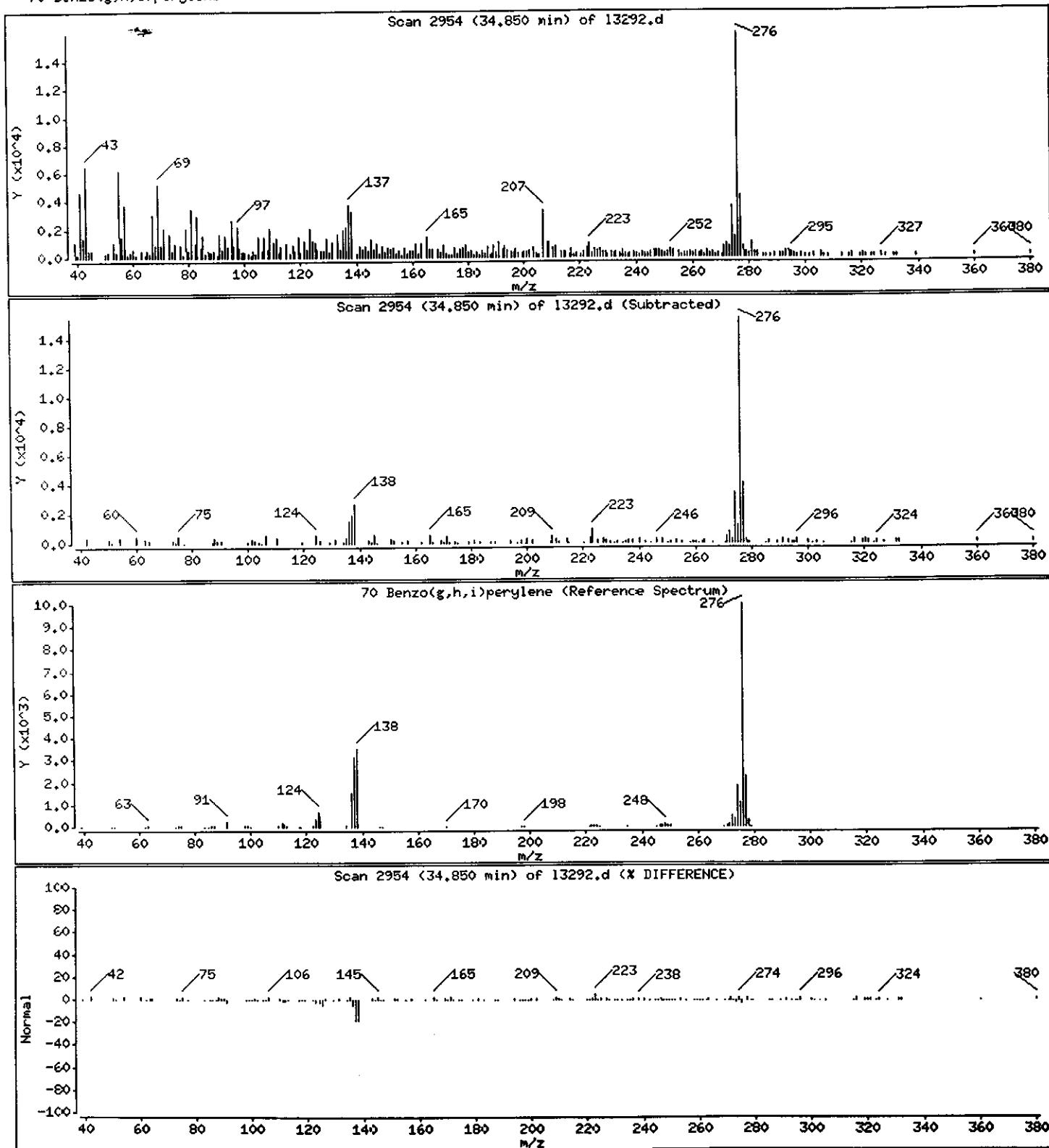
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

70 Benzo(g,h,i)perylene

Concentration: 1400 ug/Kg



Data File: /chem/BNAMS7.1/8270/10-27-00/31oct00a.b/13292.d

Date : 01-NOV-2000 01:55

Client ID: EB-3_16-16.5

Sample Info: 237814;30;2;5;23.1;

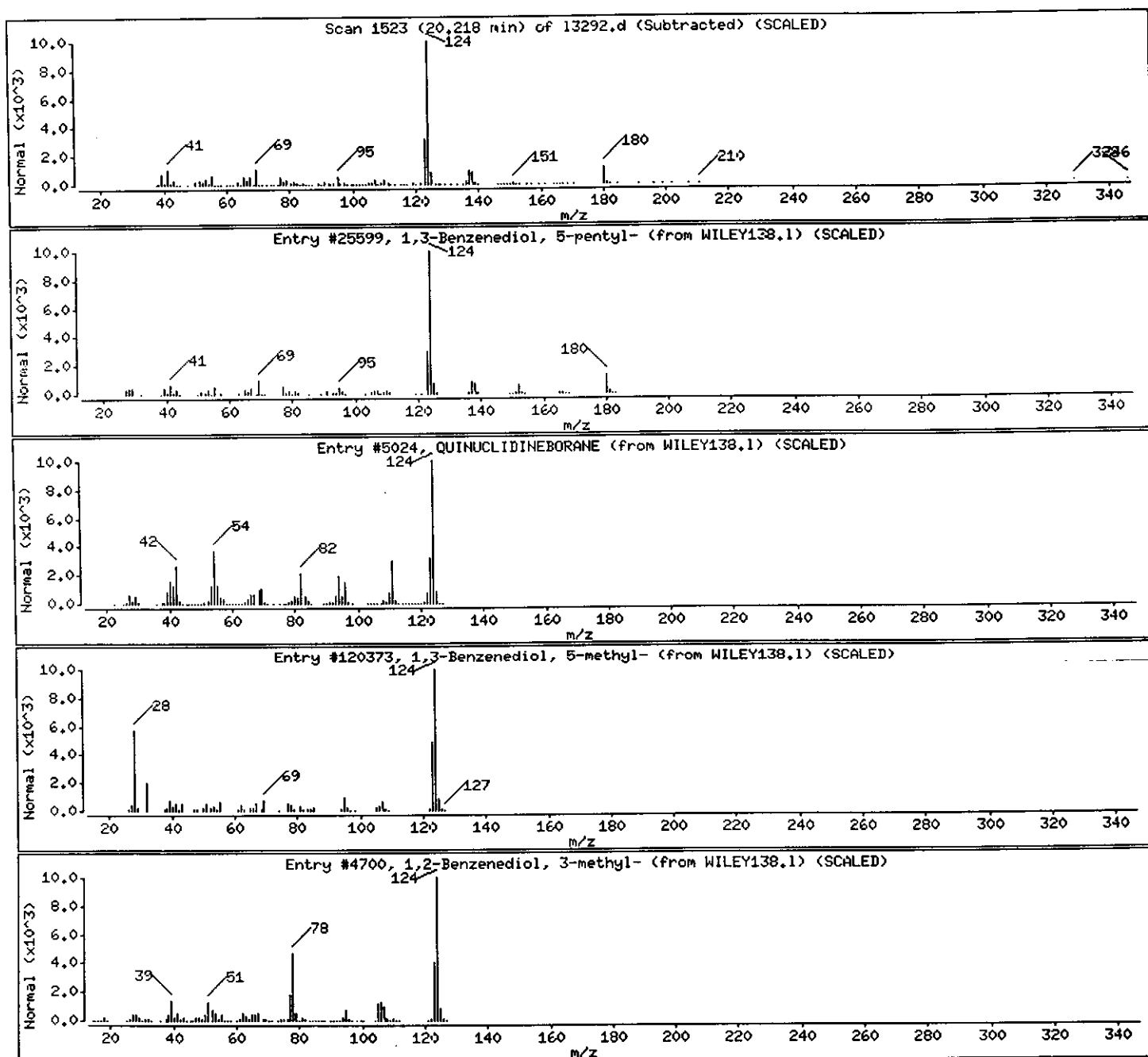
Instrument: BNAMS7.i

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Pentyl benzenediol isomer		WILEY138.1	25599	91	C ₁₁ H ₁₆ O ₂	180
QUINUCLIDINEBORANE	0-00-0	WILEY138.1	5024	64	C ₇ H ₁₆ BN	125
1,3-Benzenediol, 5-methyl-	504-15-4	WILEY138.1	120373	59	C ₇ H ₈ O ₂	124
1,2-Benzenediol, 3-methyl-	488-17-5	WILEY138.1	4700	53	C ₇ H ₈ O ₂	124



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00a,b/13292.d

Date : 01-NOV-2000 01:55

Client ID: EB-3_16-16.5

Instrument: BNAMS7.i

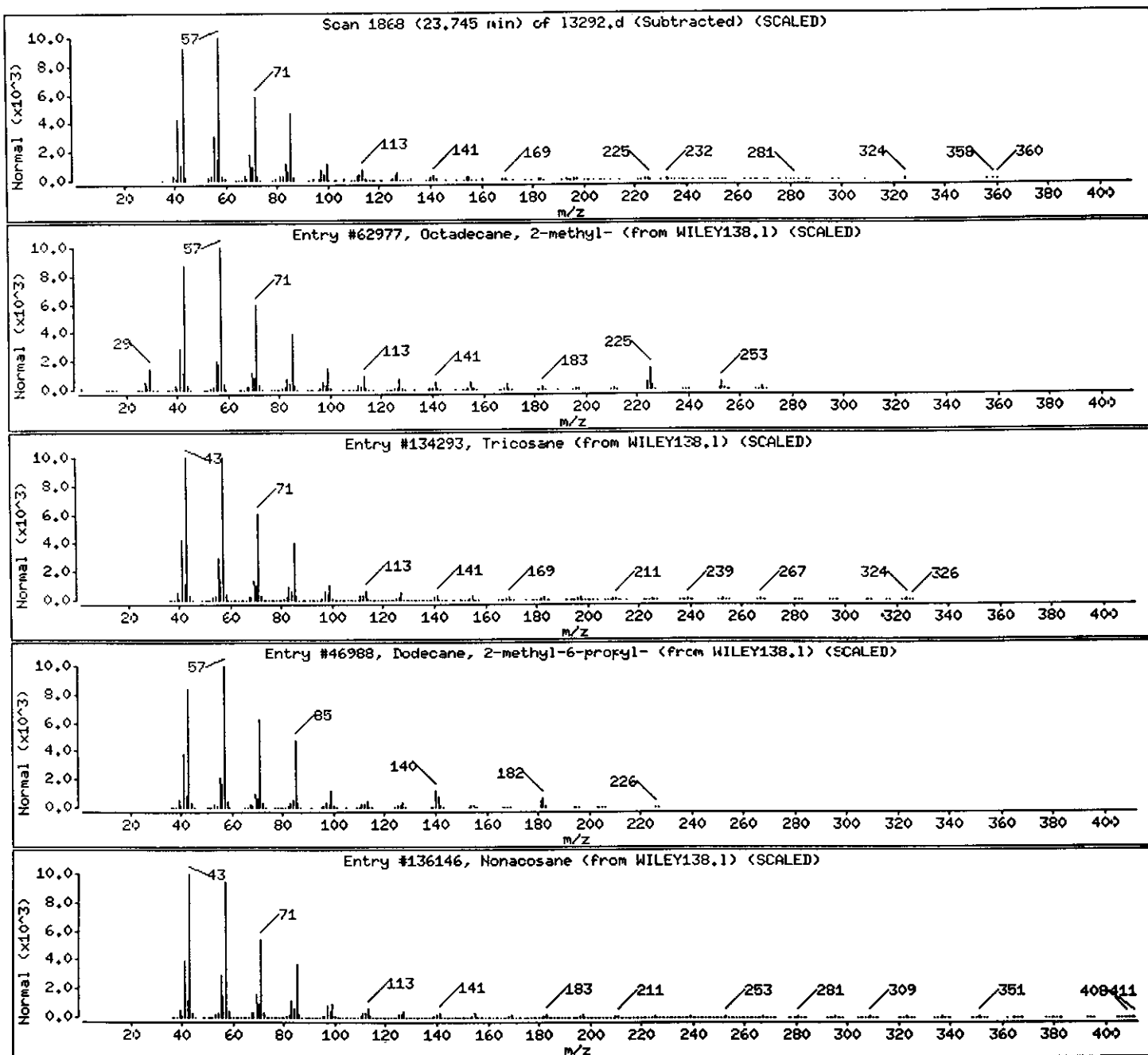
Sample Info: 237814;30;2;5;23,1;

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Octadecane, 2-methyl-	1560-88-9	WILEY138.1	62977	95	C19H40	268
Tricosane	638-67-5	WILEY138.1	134293	93	C23H48	324
Dodecane, 2-methyl-6-propyl-	55045-08-4	WILEY138.1	46988	93	C16H34	226
Nonacosane	630-03-5	WILEY138.1	136146	91	C29H60	408



Data File: /chem/BNAMS7.1/8270/10-27-00/31oct00a.b/13292.d

Date : 01-NOV-2000 01:55

Client ID: EB-3_16-16.5

Sample Info: 237814;30;2;5;23.1;

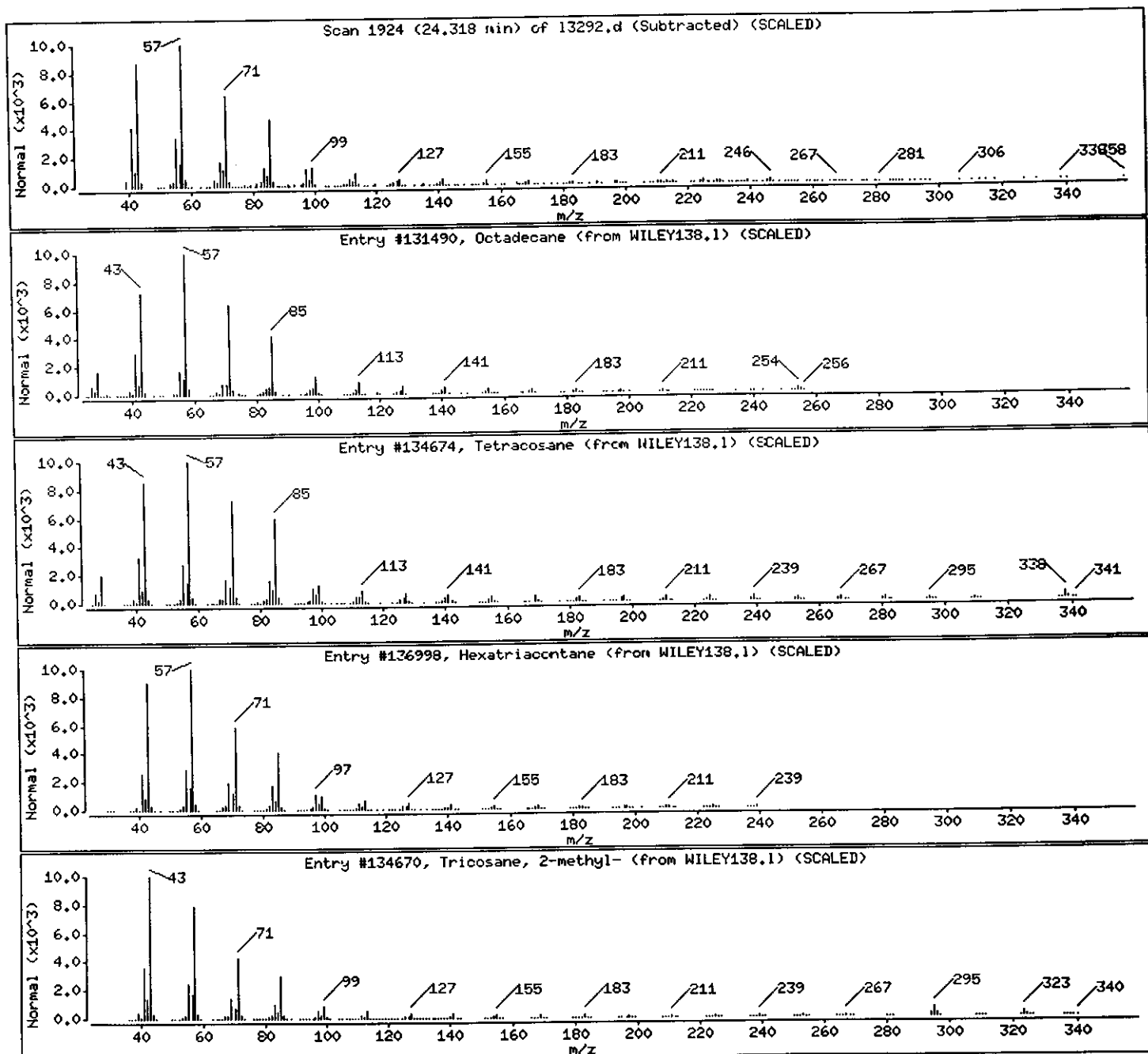
Instrument: BNAMS7.i

Operator: BNAMS 4

Column diameter: 0.25

Column phase: DB-5

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Octadecane	593-45-3	WILEY138.1	131490	95	C18H38	254
Tetracosane	646-31-1	WILEY138.1	134674	94	C24H50	338
Hexatriacontane	630-06-8	WILEY138.1	136998	93	C36H74	507
Tricosane, 2-methyl-	1928-30-9	WILEY138.1	134670	93	C24H50	338



Data File: /chem/ENAMS7.i/8270/10-27-00/31oct00a.b/13292.d

Date : 01-NOV-2000 01:55

Client ID: EB-3_16-16.5

Instrument: ENAMS7.i

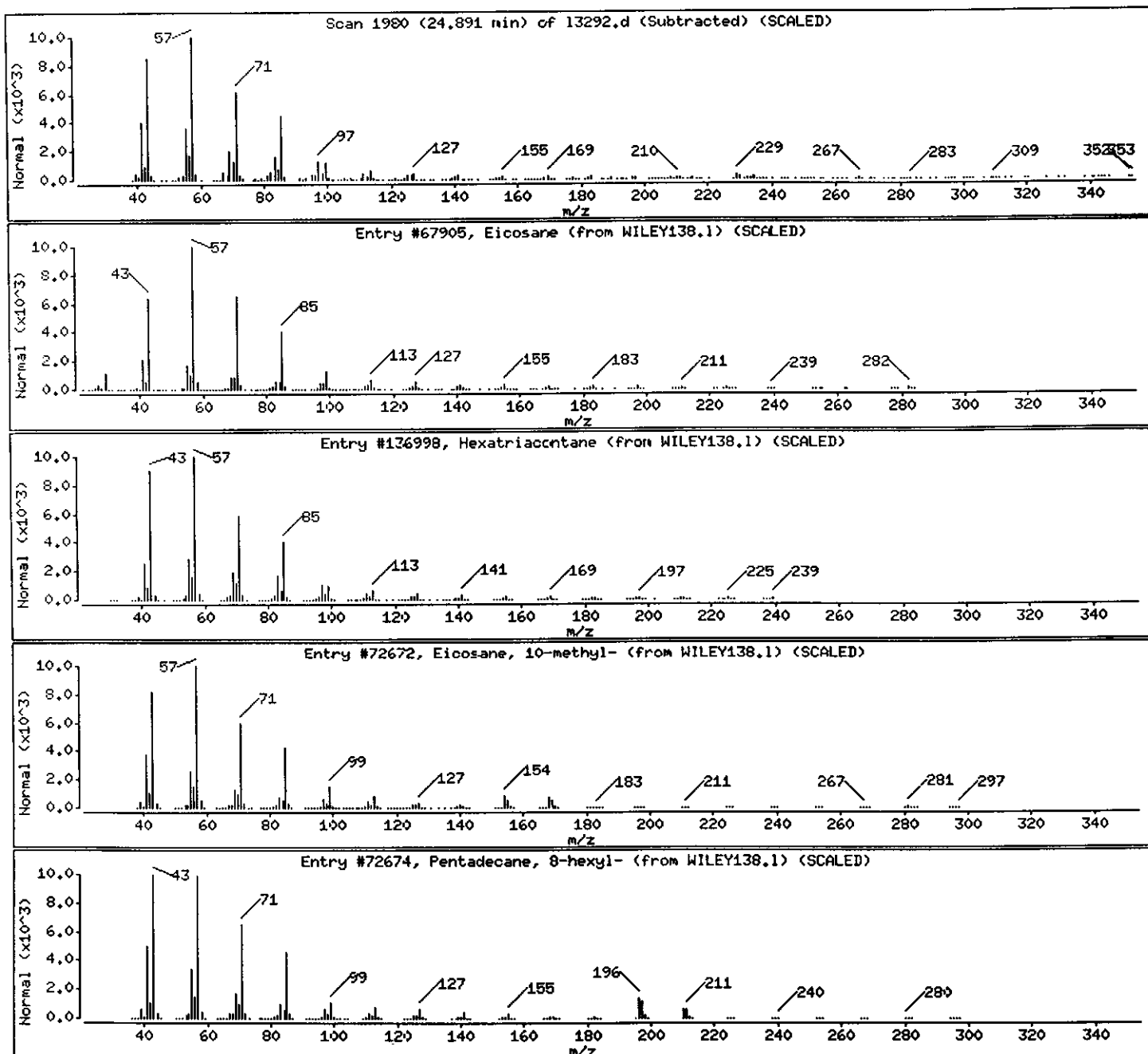
Sample Info: 237814;30;2;5;23.1;

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Eicosane	112-95-8	WILEY138.1	67905	95	C ₂₀ H ₄₂	282
Hexatriacontane	630-06-8	WILEY138.1	136998	93	C ₃₆ H ₇₄	507
Eicosane, 10-methyl-	54833-23-7	WILEY138.1	72672	91	C ₂₁ H ₄₄	296
Pentadecane, 8-hexyl-	13475-75-7	WILEY138.1	72674	91	C ₂₁ H ₄₄	296



Data File: /chem/BNAMS7.1/8270/10-27-00/31oct00a,b/13292.d

Date : 01-NOV-2000 01:55

Client ID: EB-3_16-16.5

Sample Info: 237814;30;2;5;23.1;

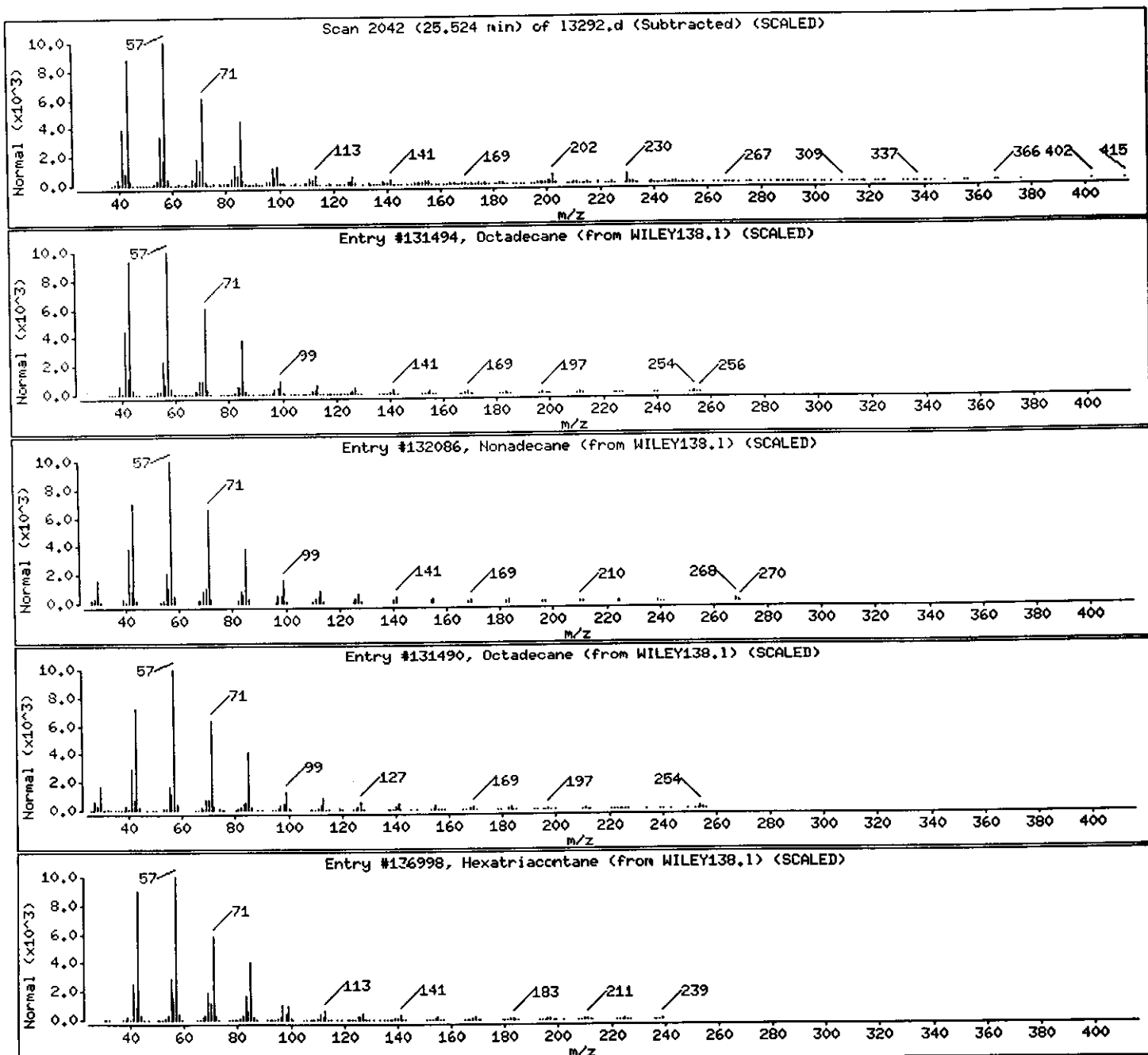
Instrument: BNAMS7.1

Operator: BNAMS 4

Column diameter: 0.25

Column phase: DB-5

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Octadecane	593-45-3	WILEY138.1	131494	96	C18H38	254
Nonadecane	629-92-5	WILEY138.1	132086	94	C19H40	268
Octadecane	593-45-3	WILEY138.1	131490	94	C18H38	254
Hexatriacontane	630-06-8	WILEY138.1	136998	93	C36H74	507



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00a.b/13292.d

Date : 01-NOV-2000 01:55

Client ID: EB-3_16-16.5

Instrument: BNAMS7.i

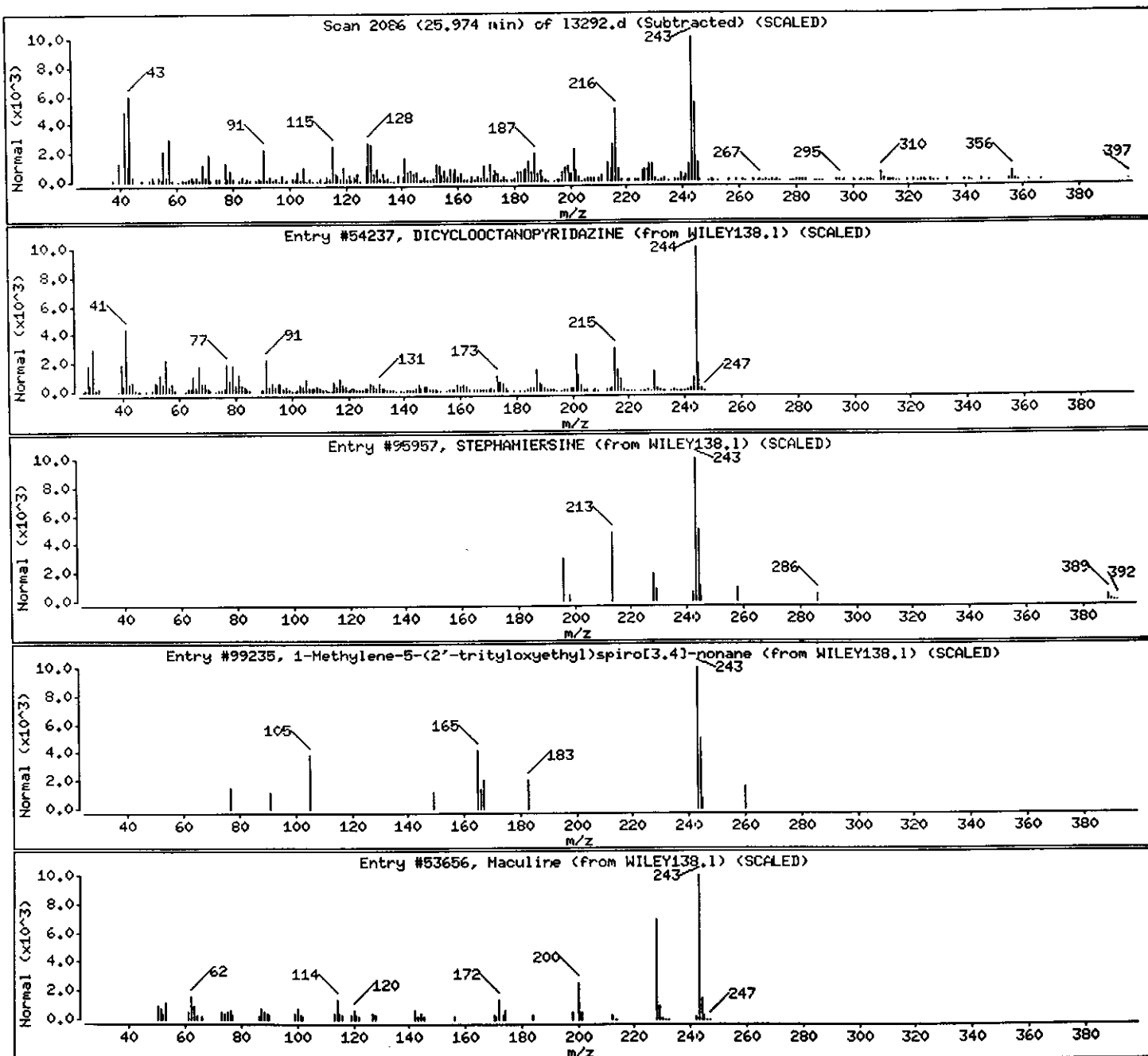
Sample Info: 237814;30;2;5;23.1;

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
DICYCLOOCTANOPYRIDAZINE	0-00-0	WILEY138.1	54237	47	C16H24N2	244
STEPHANIERISINE	52309-76-9	WILEY138.1	95957	38	C21H27NO6	389
1-Methylene-5-(2'-trityloxyethyl)spiro[3	64715-49-7	WILEY138.1	99235	38	C30H32O	408
Maculine	524-89-0	WILEY138.1	53656	30	C13H9NO4	243



Data File: /chem/BNAMS7.1/8270/10-27-00/31oct00a.b/13292.d

Date: 01-NOV-2000 01:55

Client ID: EB-3_16-16.5

Sample Info: 237814;30;2;5;23.1;

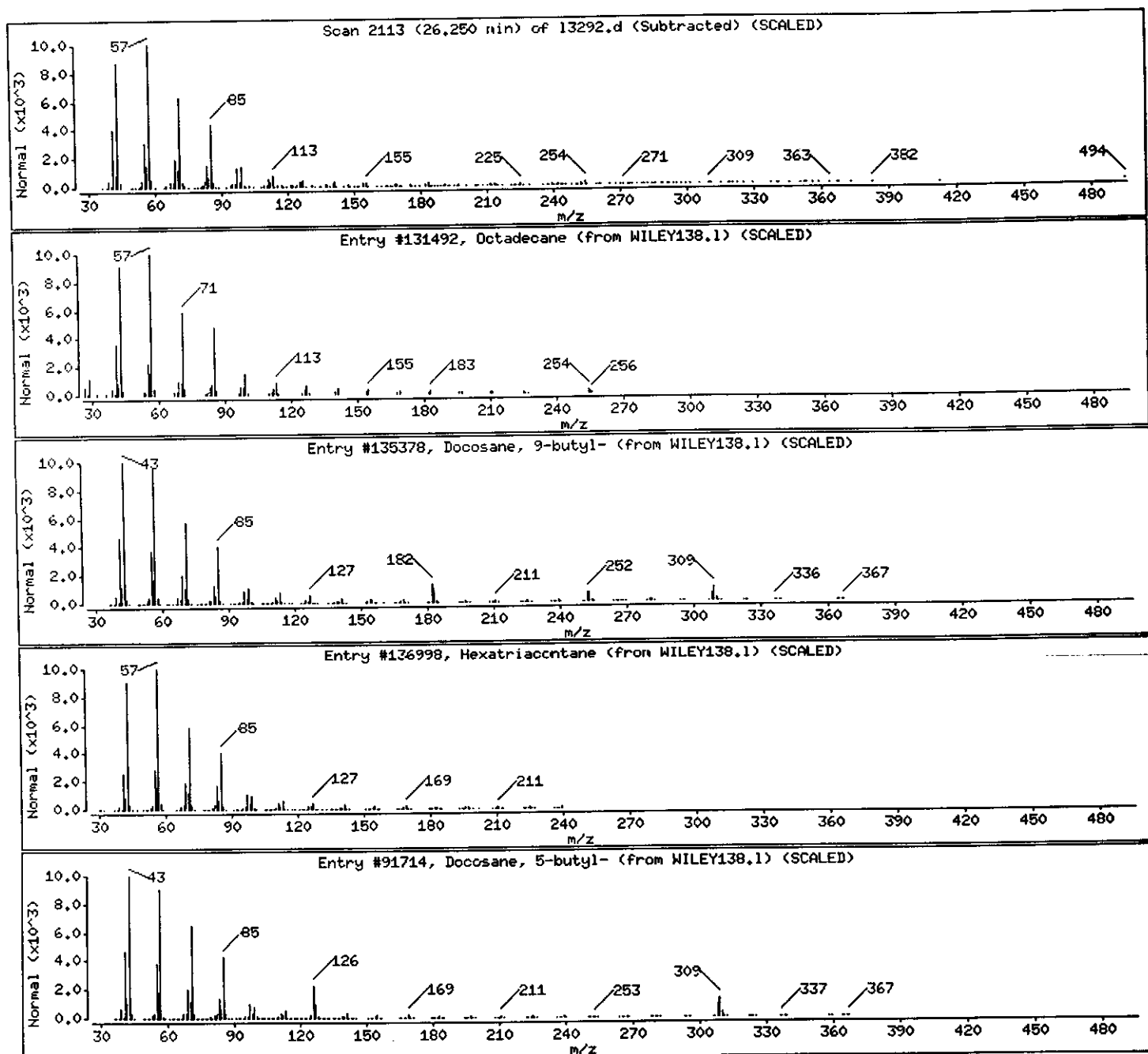
Instrument: INAMS7.1

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
C18H38 Alkane						
Octadecane	593-45-3	WILEY138.1	131492	96	C18H38	254
Docosane, 9-butyl-	55282-14-9	WILEY138.1	135378	95	C26H54	366
Hexatriacontane	630-06-8	WILEY138.1	136998	94	C36H74	507
Docosane, 5-butyl-	55282-16-1	WILEY138.1	91714	93	C26H54	366



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00a.b/13292.d

Date : 01-NOV-2000 01:55

Client ID: EB-3_16-16.5

Instrument: BNAMS7.i

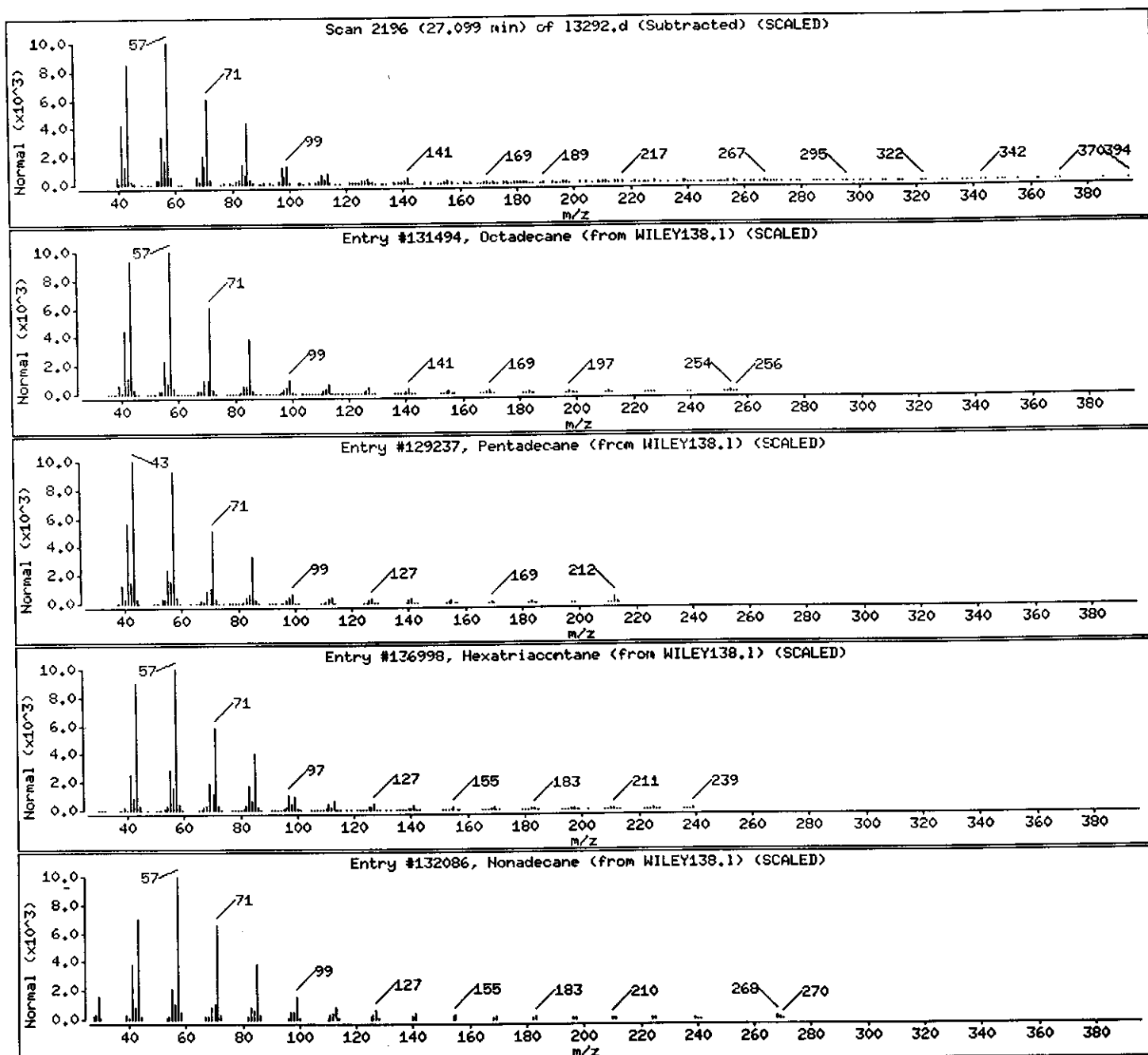
Sample Info: 237814;30;2;5;23.1;

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Octadecane	593-45-3	WILEY138.1	131494	95	C ₁₈ H ₃₈	254
Pentadecane	629-62-9	WILEY138.1	129237	95	C ₁₅ H ₃₂	212
Hexatriacontane	630-06-8	WILEY138.1	136998	95	C ₃₆ H ₇₄	507
Nonadecane	629-92-5	WILEY138.1	132086	94	C ₁₉ H ₄₀	268



Data File: /chem/BNAMS7.1/8270/10-27-00/31oct00a,b/13292.d

Date : 01-NOV-2000 01:55

Client ID: EB-3_16-16.5

Sample Info: 237814;30;2;5;23.1;

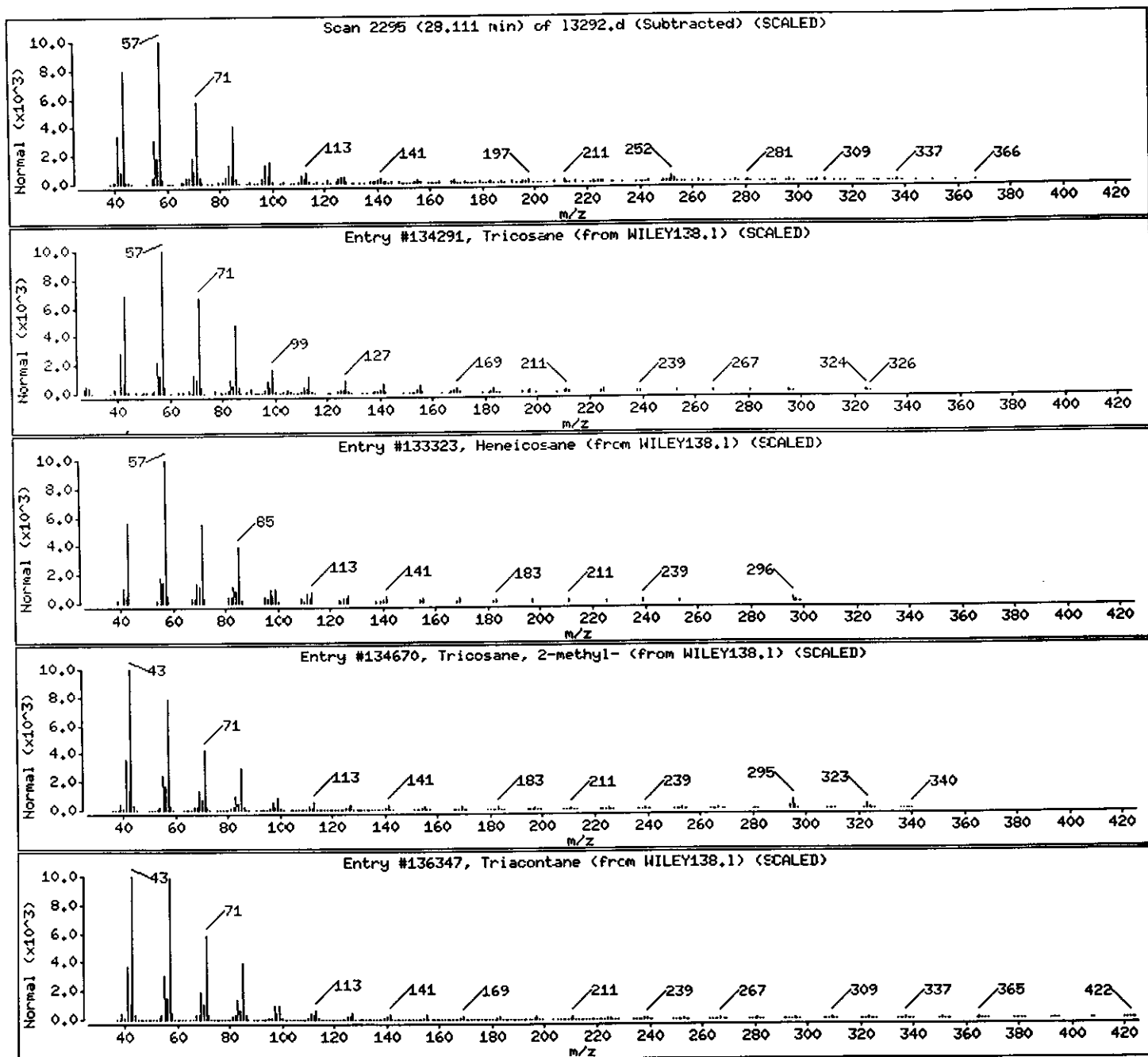
Instrument: BNAMS7.1

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Tricosane	638-67-5	WILEY138.1	134291	95	C23H48	324
Heneicosane	629-94-7	WILEY138.1	133323	93	C21H44	296
Tricosane, 2-methyl-	1928-30-9	WILEY138.1	134670	93	C24H50	338
Triacontane	638-68-6	WILEY138.1	136347	90	C30H62	422



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00a,b/13292.d

Date : 01-NOV-2000 01:55

Client ID: EB-3_16-16.5

Sample Info: 237814;30;2;5;23.1;

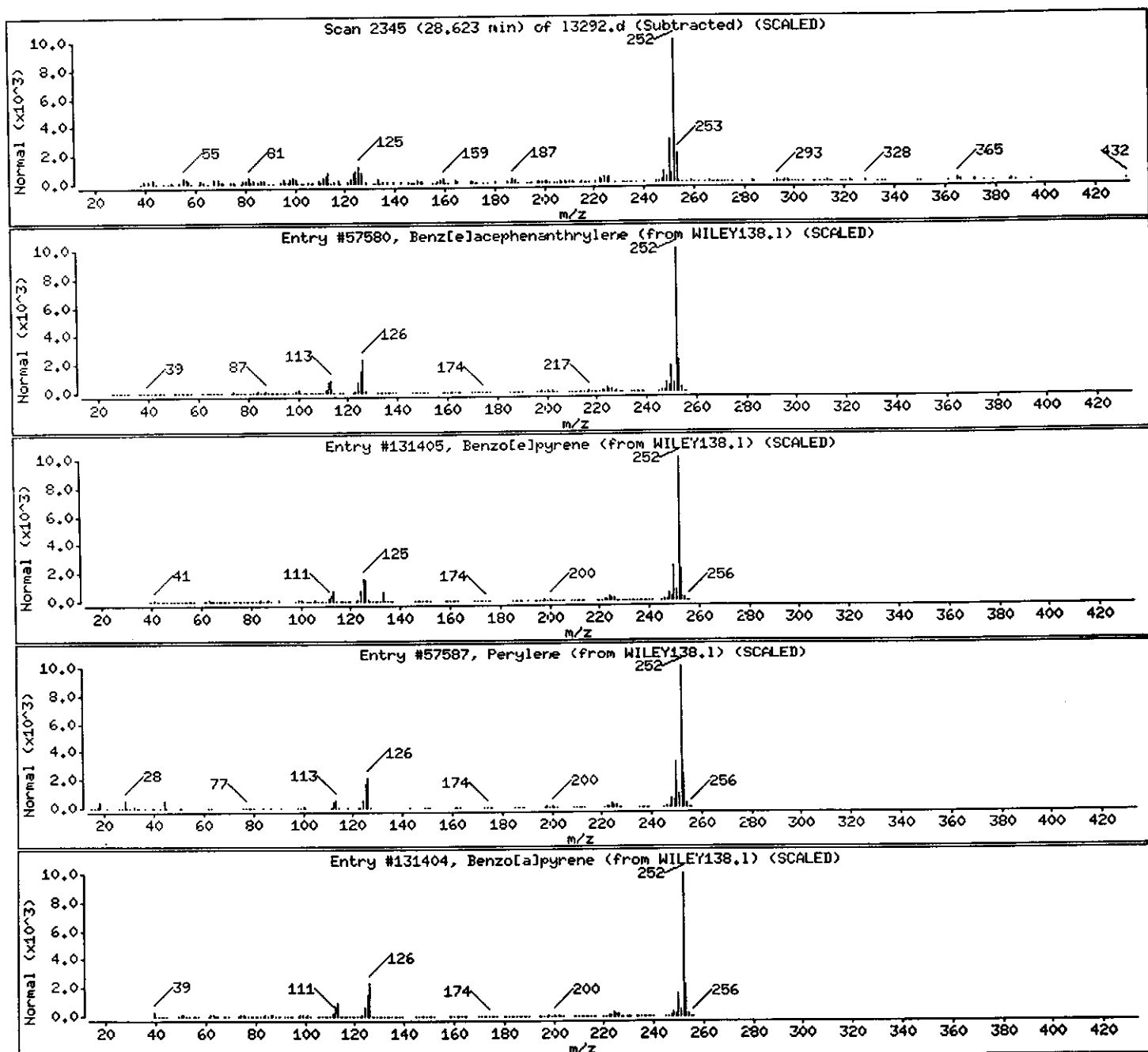
Instrument: BNAMS7.i

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
C20H12 PAH						
Benz[e]acephenanthrylene	205-99-2	WILEY138.1	57580	90	C20H12	252
Benzo[e]pyrene	192-97-2	WILEY138.1	131405	90	C20H12	252
Perylene	198-55-0	WILEY138.1	57587	81	C20H12	252
Benzo[a]pyrene	50-32-8	WILEY138.1	131404	81	C20H12	252



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00a.b/13292.d

Date : 01-NOV-2000 01:55

Client ID: EB-3_16-16.5

Instrument: BNAMS7.i

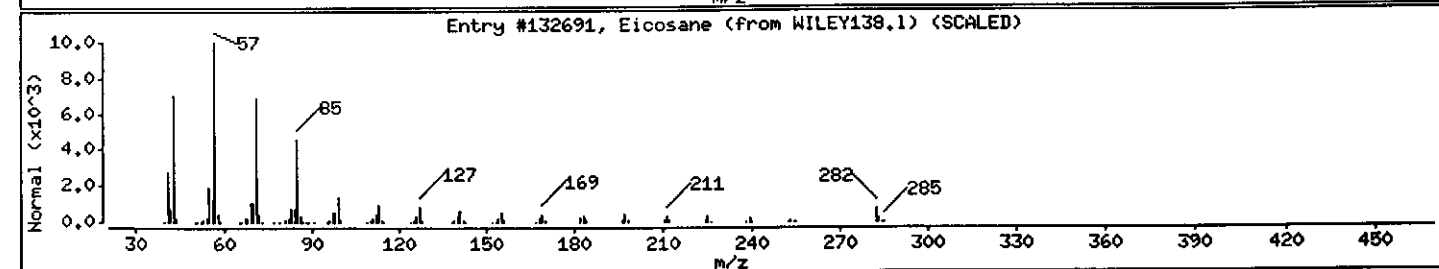
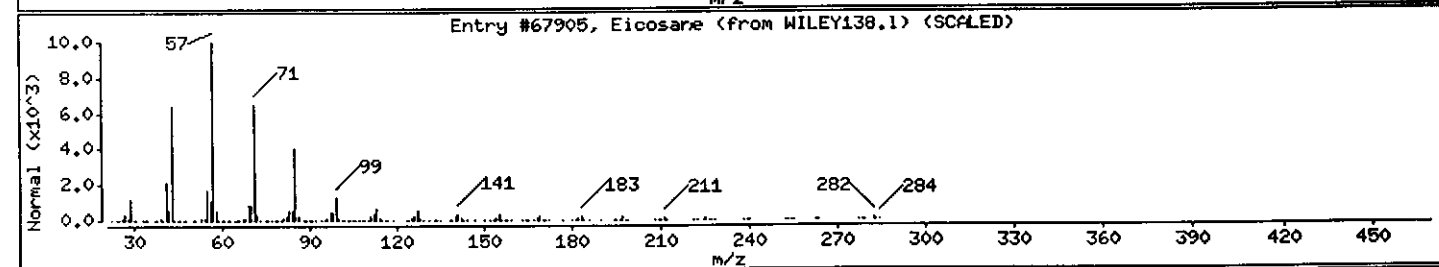
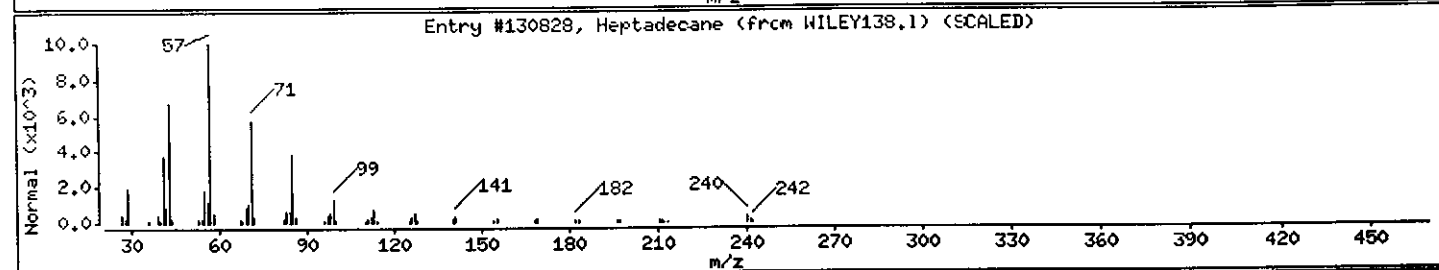
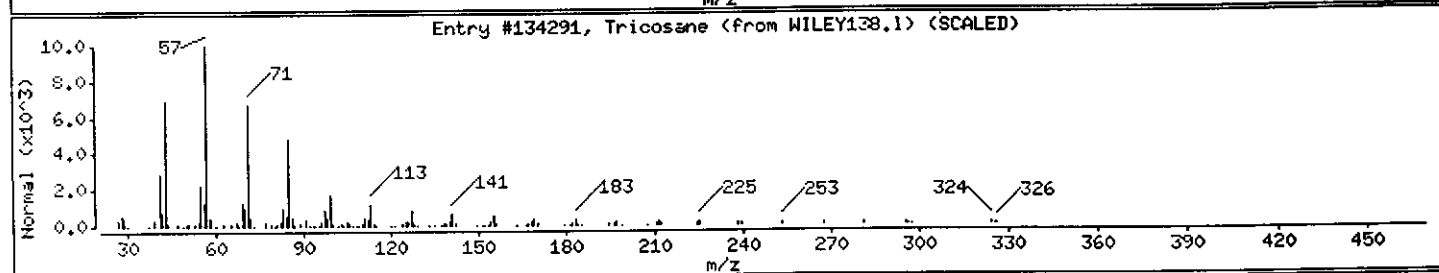
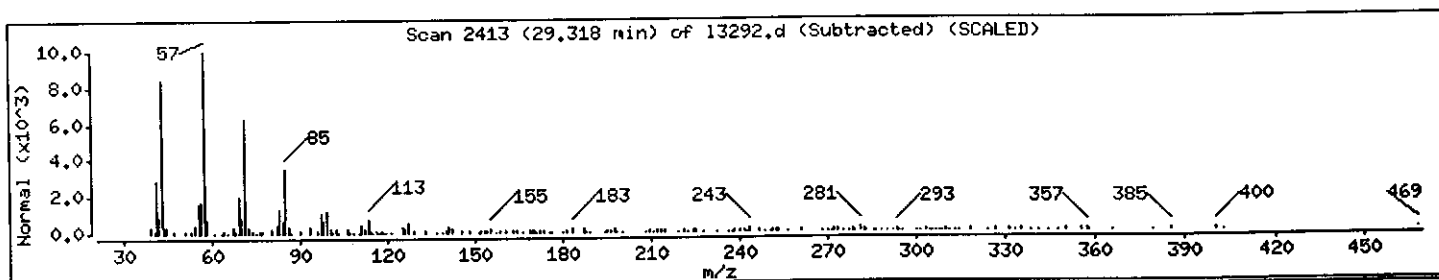
Sample Info: 237814;30;2;5;23.1;

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Tricosane	638-67-5	WILEY138.1	134291	95	C ₂₃ H ₄₈	324
Heptadecane	629-78-7	WILEY138.1	130828	95	C ₁₇ H ₃₆	240
Eicosane	112-95-8	WILEY138.1	67905	94	C ₂₀ H ₄₂	282
Eicosane	112-95-8	WILEY138.1	132691	93	C ₂₀ H ₄₂	282



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00a,b/13292.d

Date : 01-NOV-2000 01:55

Client ID: EB-3_16-16.5

Sample Info: 237814;30;2;5;23.1;

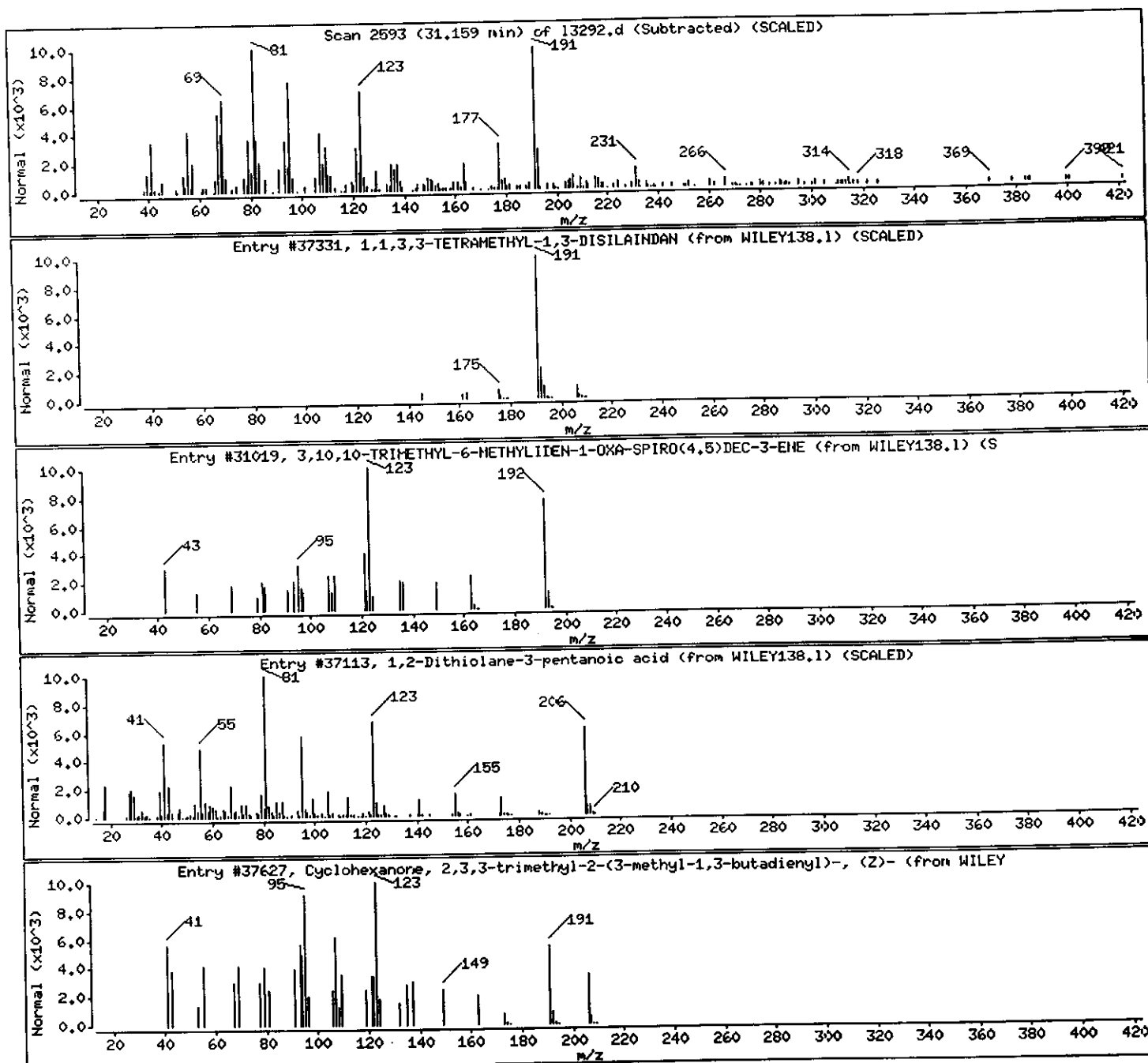
Instrument: BNAMS7.i

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1,1,3,3-TETRAMETHYL-1,3-DISILAINAN	54113-93-8	WILEY138.1	37331	72	C11H18Si2	206
3,10,10-TRIMETHYL-6-METHYLIDEN-1-OXA-SPI	54345-76-5	WILEY138.1	31019	56	C13H20O	192
1,2-Dithiolane-3-pentanoic acid	62-46-4	WILEY138.1	37113	38	C8H14O2S2	206
Cyclohexanone, 2,3,3-trimethyl-2-(3-meth	69296-90-8	WILEY138.1	37627	35	C14H22O	206



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00a,b/13292.d

Date : 01-NOV-2000 01:55

Client ID: EB-3_16-16.5

Instrument: BNAMS7.i

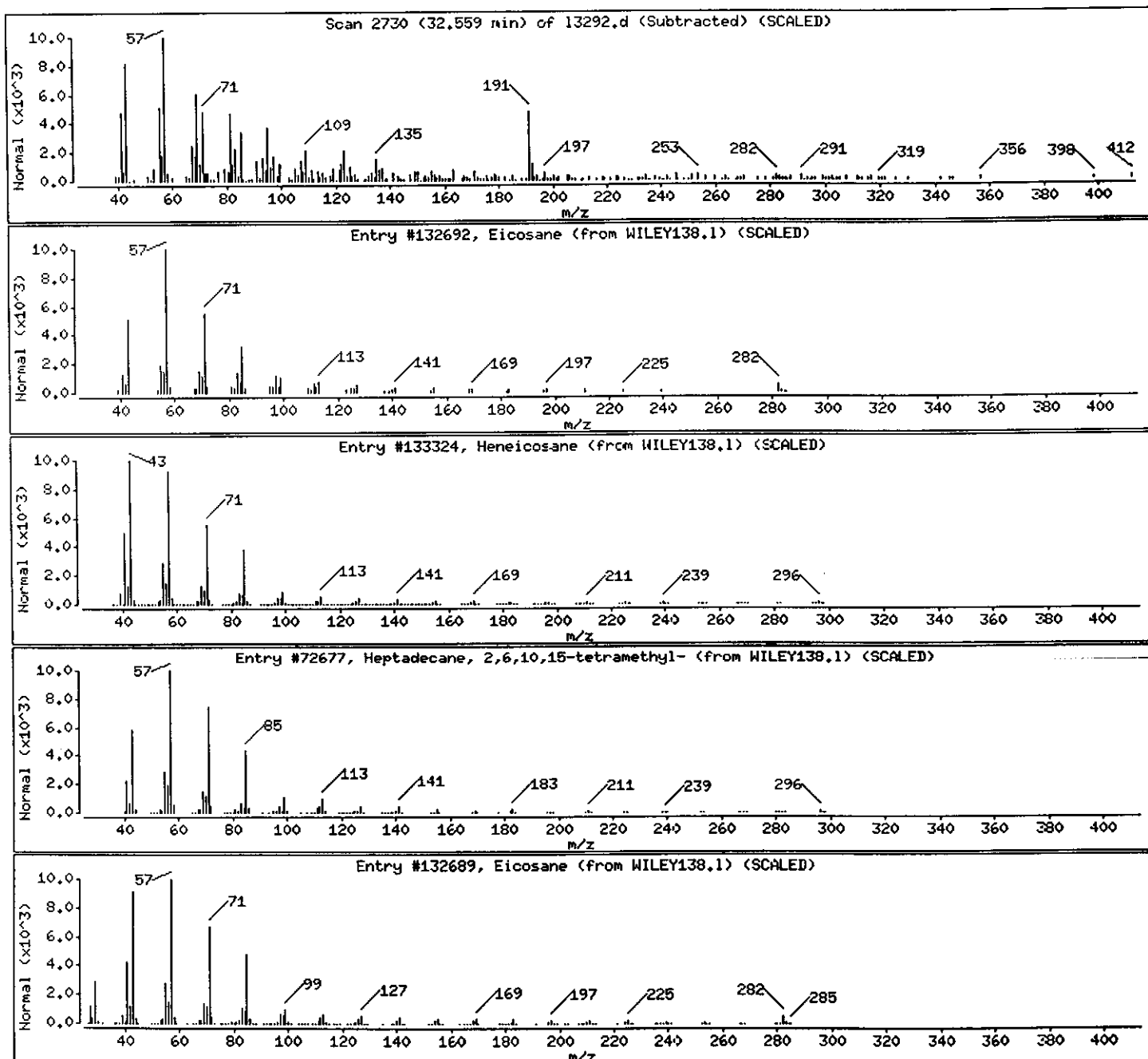
Sample Info: 237814;30;2;5;23.1;

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS-Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane/Unknown						
Eicosane	112-95-8	WILEY138.1	132692	52	C20H42	282
Heneicosane	629-94-7	WILEY138.1	133324	47	C21H44	296
Heptadecane, 2,6,10,15-tetramethyl-	54833-48-6	WILEY138.1	72677	47	C21H44	296
Eicosane	112-95-8	WILEY138.1	132689	47	C20H42	282



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00a,b/13292.d

Date : 01-NOV-2000 01:55

Client ID: EB-3_16-16.5

Instrument: BNAMS7.i

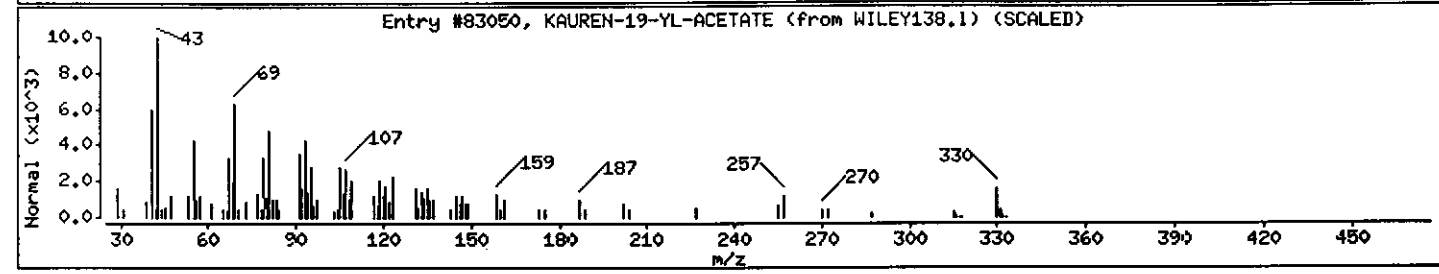
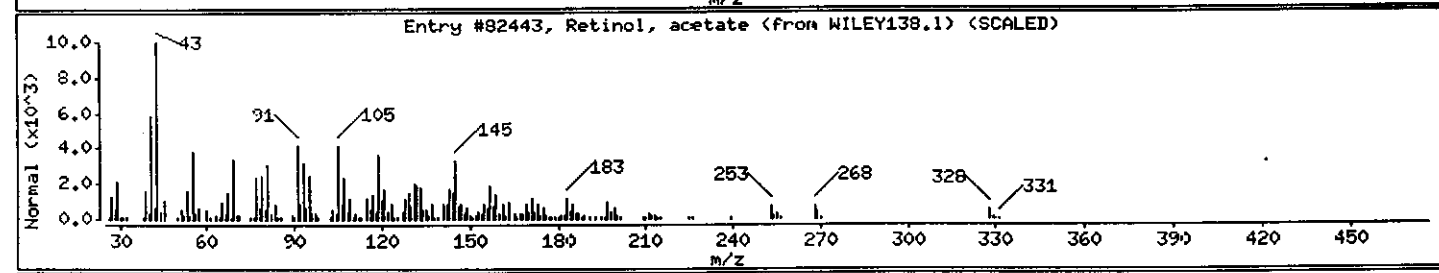
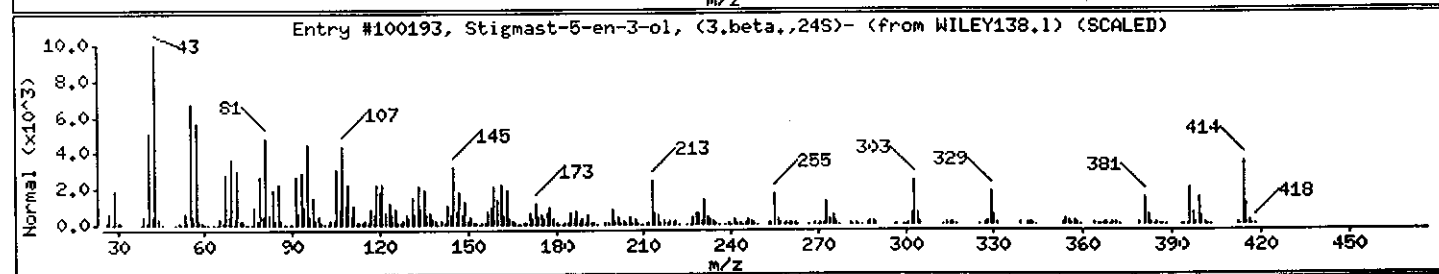
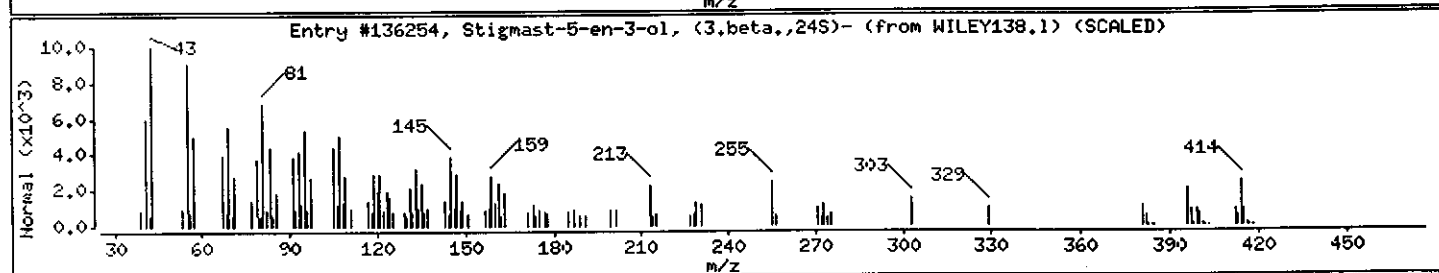
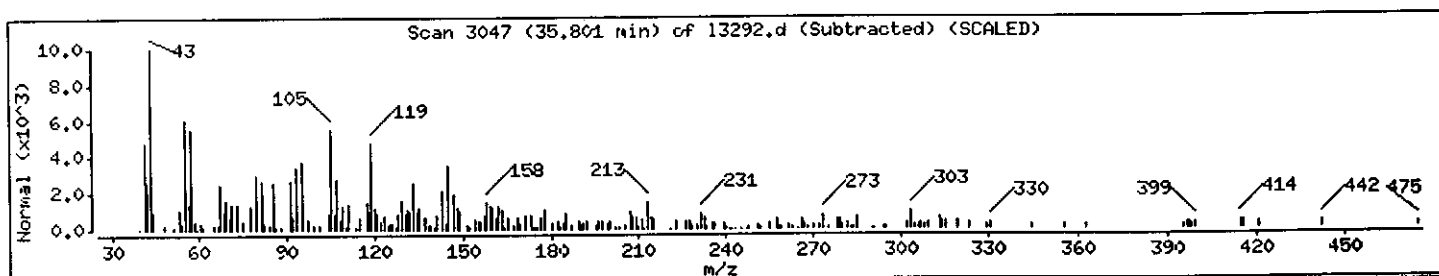
Sample Info: 237814;30;2;5;23.1;

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Sterol						
Stigmast-5-en-3-ol, (3.beta.,24S)-	83-47-6	WILEY138.1	136254	55	C29H50O	414
Stigmast-5-en-3-ol, (3.beta.,24S)-	83-47-6	WILEY138.1	100193	46	C29H50O	414
Retinol, acetate	127-47-9	WILEY138.1	82443	37	C22H32O2	328
KAUREN-19-YL-ACETATE	0-00-0	WILEY138.1	83050	35	C22H34O2	330



Data File: /chem/BNAMS7.1/8270/10-27-00/31oct00a.b/13292.d

Date : 01-NOV-2000 01:55

Client ID: EB-3_16-16.5

Sample Info: 237814;30;2;5;23.1;

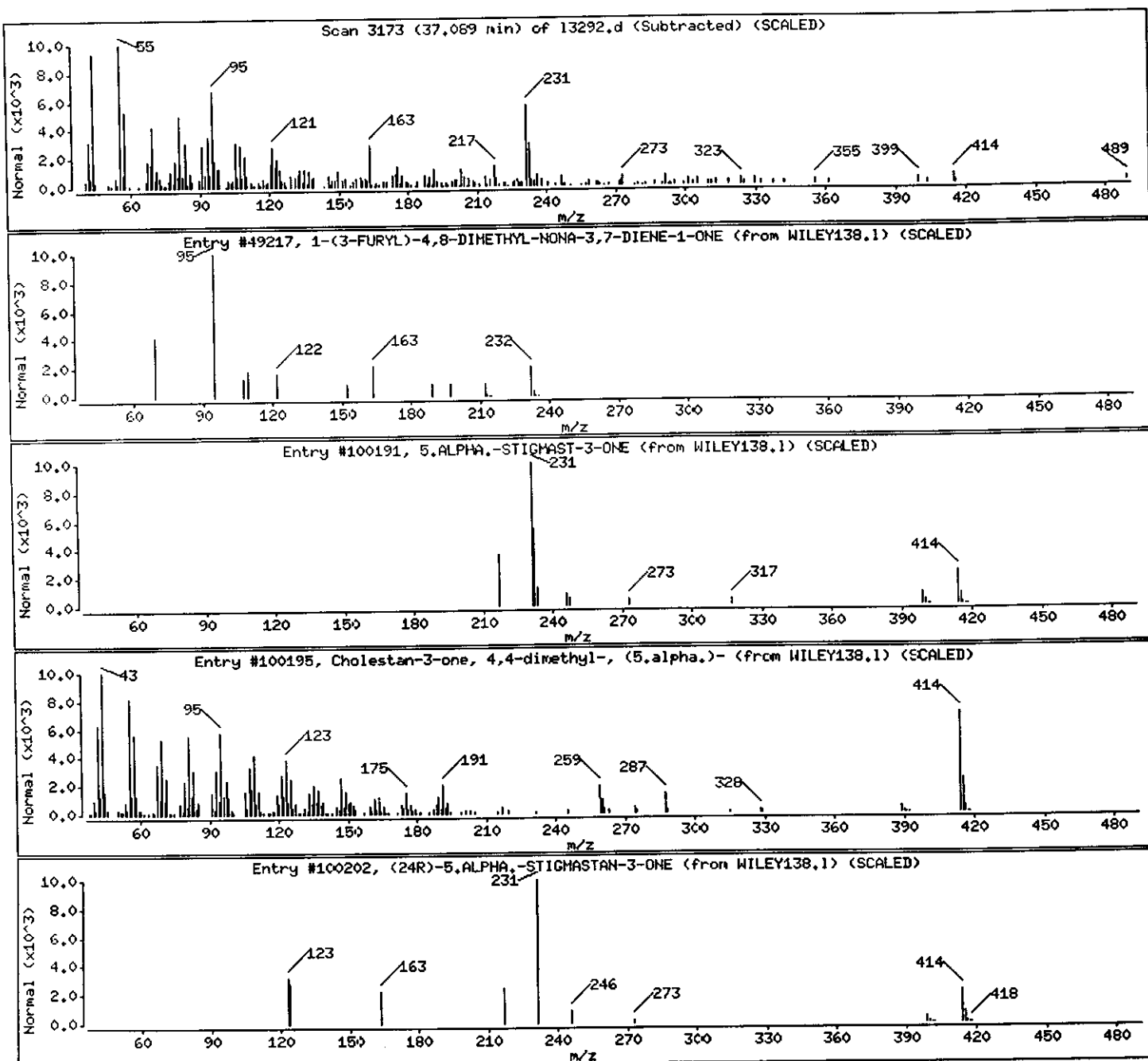
Instrument: BNAMS7.1

Operator: BNAMS 4

Column diameter: 0.25

Column phase: DB-5

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1-(3-FURYL)-4,8-DIMETHYL-NONA-3,7-DIENE-	69301-75-3	WILEY138.1	49217	38	C15H20O2	232
5,ALPHA.-STIGMAST-3-ONE	83-46-5	WILEY138.1	100191	38	C29H50O	414
Cholestan-3-one, 4,4-dimethyl-, (5.alpha.)-	2097-65-0	WILEY138.1	100195	38	C29H50O	414
(24R)-5,ALPHA.-STIGMASTAN-3-ONE	5060-25-3	WILEY138.1	100202	22	C29H50O	414



Client ID: EB-4 1.5-2
Site: Rexam DSI

Lab Sample No: 237815
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/31/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: 13269.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 8

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
N-Nitrosodimethylamine	ND	360
bis(2-Chloroethyl) ether	ND	36
1,3-Dichlorobenzene	ND	360
1,4-Dichlorobenzene	ND	360
1,2-Dichlorobenzene	ND	360
bis(2-chloroisopropyl) ether	ND	360
N-Nitroso-di-n-propylamine	ND	36
Hexachloroethane	ND	36
Nitrobenzene	ND	36
Isophorone	ND	360
bis(2-Chloroethoxy) methane	ND	360
1,2,4-Trichlorobenzene	ND	36
Naphthalene	71 J	360
Hexachlorobutadiene	ND	72
Hexachlorocyclopentadiene	ND	360
2-Chloronaphthalene	ND	360
Dimethylphthalate	ND	360
Acenaphthylene	290 J	360
2,6-Dinitrotoluene	ND	72
Acenaphthene	54 J	360
2,4-Dinitrotoluene	ND	72
Diethylphthalate	ND	360
4-Chlorophenyl-phenylether	ND	360
Fluorene	78 J	360
N-Nitrosodiphenylamine	ND	360
4-Bromophenyl-phenylether	ND	360
Hexachlorobenzene	ND	36
Phenanthrene	1000	360
Anthracene	380	360
Di-n-butylphthalate	ND	360
Fluoranthene	2500	360
Pyrene	2600	360
Benzidine	ND	1400
Butylbenzylphthalate	ND	360

Client ID: EB-4_1.5-2
Site: Rexam DSI

Lab Sample No: 237815
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/31/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: 13269.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 8

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
3,3'-Dichlorobenzidine	ND	720
Benzo(a)anthracene	1300	36
Chrysene	1300	360
bis(2-Ethylhexyl)phthalate	ND	360
Di-n-octylphthalate	ND	360
Benzo(b)fluoranthene	2000	36
Benzo(k)fluoranthene	940	36
Benzo(a)pyrene	1300	36
Indeno(1,2,3-cd)pyrene	490	36
Dibenz(a,h)anthracene	81	36
Benzo(g,h,i)perylene	370	360

Client ID: EB-4 1.5-2
Site: Rexam DSI

Lab Sample No: 237815
Lab Job No: F104

Date Sampled: 10/25/00
Date Received: 10/27/00
Date Extracted: 10/28/00
Date Analyzed: 10/31/00
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: 13269.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 7.9

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. Unknown Alkane	19.79	290	
2. C15H10/C15H12 PAHs	21.79	310	
3. Unknown Alkane	24.89	430	
4. Unknown	27.55	330	
5. C20H12 PAH	28.13	750	
6. C20H12 PAH	28.67	1400	
7. C20H12 PAH	29.12	510	
8. Unknown	29.49	310	
9. Unknown Alkane	30.83	470	
10. Unknown	31.22	1100	
11. Unknown	32.61	710	
12. Unknown	33.61	520	
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

7130

Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13269.d
Report Date: 31-Oct-2000 11:08

STL Edison

SEMI-VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13269.d
Lab Smp Id: 237815 Client Smp ID: EB-4_1.5-2
Inj Date : 31-OCT-2000 09:27
Operator : BNAMS 4 Inst ID: BNAMS7.i
Smp Info : 237815;30;2;1;7.9
Misc Info : F104;PPBN+15;6924;114
Comment :
Method : /chem/BNAMS7.i/8270/10-27-00/31oct00.b/8270C1.m
Meth Date : 31-Oct-2000 06:58 acierno Quant Type: ISTD
Cal Date : 27-OCT-2000 12:29 Cal File: 13224.d
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 3.50
Processing Host: hpd1

Compound Sublist: PPBNb.sub

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * 1000 * \text{Vt} / (\text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	2.00000	Volume of final extract (ml)
Ws	30.00000	Weight of sample extracted (g)
M	7.90000	% Moisture

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 79 1,4-Dichlorobenzene-d4	152	13.180	13.180	(1.000)	304047	40.0000		
\$ 76 Nitrobenzene-d5 (SUR)	82	14.131	14.142	(0.920)	595963	45.5933	3300	
* 80 Naphthalene-d8	136	15.358	15.358	(1.000)	1263682	40.0000		
31 Naphthalene	128	15.389	15.399	(1.002)	31022	0.98606	71 (a)	
\$ 77 2-Fluorobiphenyl (SUR)	172	17.147	17.158	(0.937)	946271	48.0115	3500	
39 Acenaphthylene	152	18.057	18.068	(0.987)	125659	4.03854	290 (a)	
* 82 Acenaphthene-d10	164	18.293	18.303	(1.000)	724953	40.0000		
42 Acenaphthene	153	18.344	18.364	(1.003)	14716	0.75408	54 (a)	
47 Fluorene	166	19.203	19.213	(1.050)	23693	1.08525	78 (a)	
* 83 Phenanthrene-d10	188	20.777	20.788	(1.000)	1287298	40.0000		
52 Phenanthrene	178	20.818	20.829	(1.002)	434371	13.7857	1000	
53 Anthracene	178	20.900	20.911	(1.006)	168904	5.31214	380	
56 Fluoranthene	202	22.802	22.802	(1.097)	1176972	35.0433	2500	

Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/l3269.d
 Report Date: 31-Oct-2000 11:08

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ug/ml)	(ug/Kg)
-----	----	----	----	----	-----	-----	-----	-----
57 Pyrene		202	23.180	23.191	(0.918)	1125311	36.7323	2600
\$ 78 Terphenyl-d14 (SUR)		244	23.405	23.405	(0.927)	1242575	52.8621	3800
61 Benzo(a)anthracene		228	25.235	25.236	(0.999)	549363	18.2281	1300
* 81 Chrysene-d12		240	25.256	25.266	(1.000)	1157172	40.0000	
62 Chrysene		228	25.307	25.328	(1.002)	492735	17.6103	1300
65 Benzo(b)fluoranthene		252	27.822	27.833	(0.958)	508365	27.9260	2000
66 Benzo(k)fluoranthene		252	27.884	27.925	(0.960)	282920	13.0361	940
67 Benzo(a)pyrene		252	28.845	28.866	(0.993)	332955	18.4719	1300
* 84 Perylene-d12		264	29.049	29.050	(1.000)	699372	40.0000	
68 Indeno(1,2,3-cd)pyrene		276	33.538	33.579	(1.155)	117976	6.79389	490
69 Dibenz(a,h)anthracene		278	33.630	33.733	(1.158)	19206	1.11840	81 (M)
70 Benzo(g,h,i)perylene		276	34.939	35.042	(1.203)	91148	5.16070	370 (H)

QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

Data File: /chem/BNHHS7.1/8270/10-27-00/31oct00.b/13269.d

Date : 31-OCT-2000 09:27

Client ID: EB-4.1.5-2

Sample Info: 237815;30;2;1;7.9

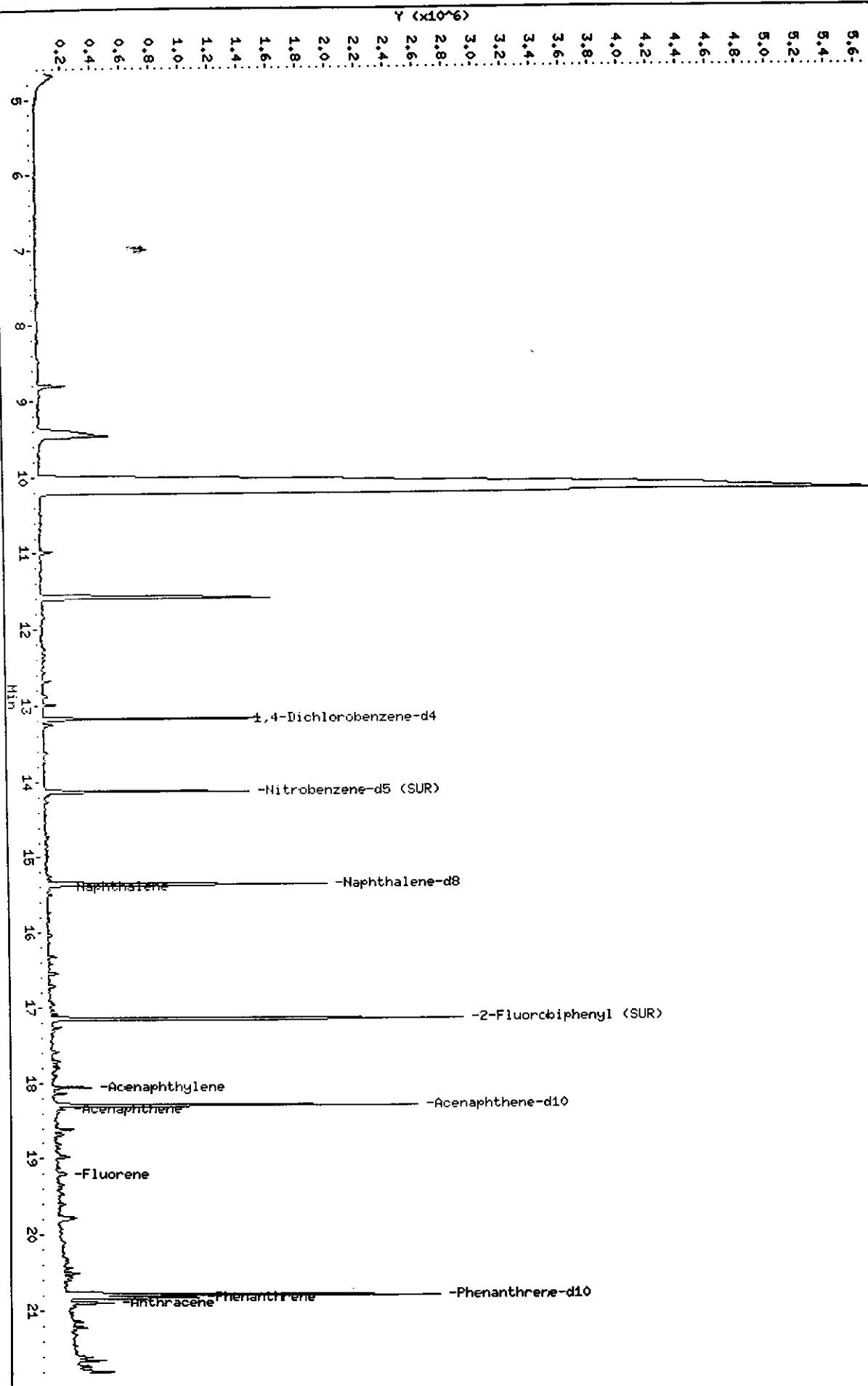
Column phase: DB-5

Instrument: BNHHS7.1

Operator: BNHHS 4

Column diameter: 0.25

/chem/BNHHS7.1/8270/10-27-00/31oct00.b/13269.d (Part 1 of 2)



Data File: /chem/BNHMS7.i/8270/10-27-00/31oct00.b/13269.d

Date: 31-OCT-2000 09:27

Client ID: EB-4.1.F-2

Sample Info: 237815/3012117.9

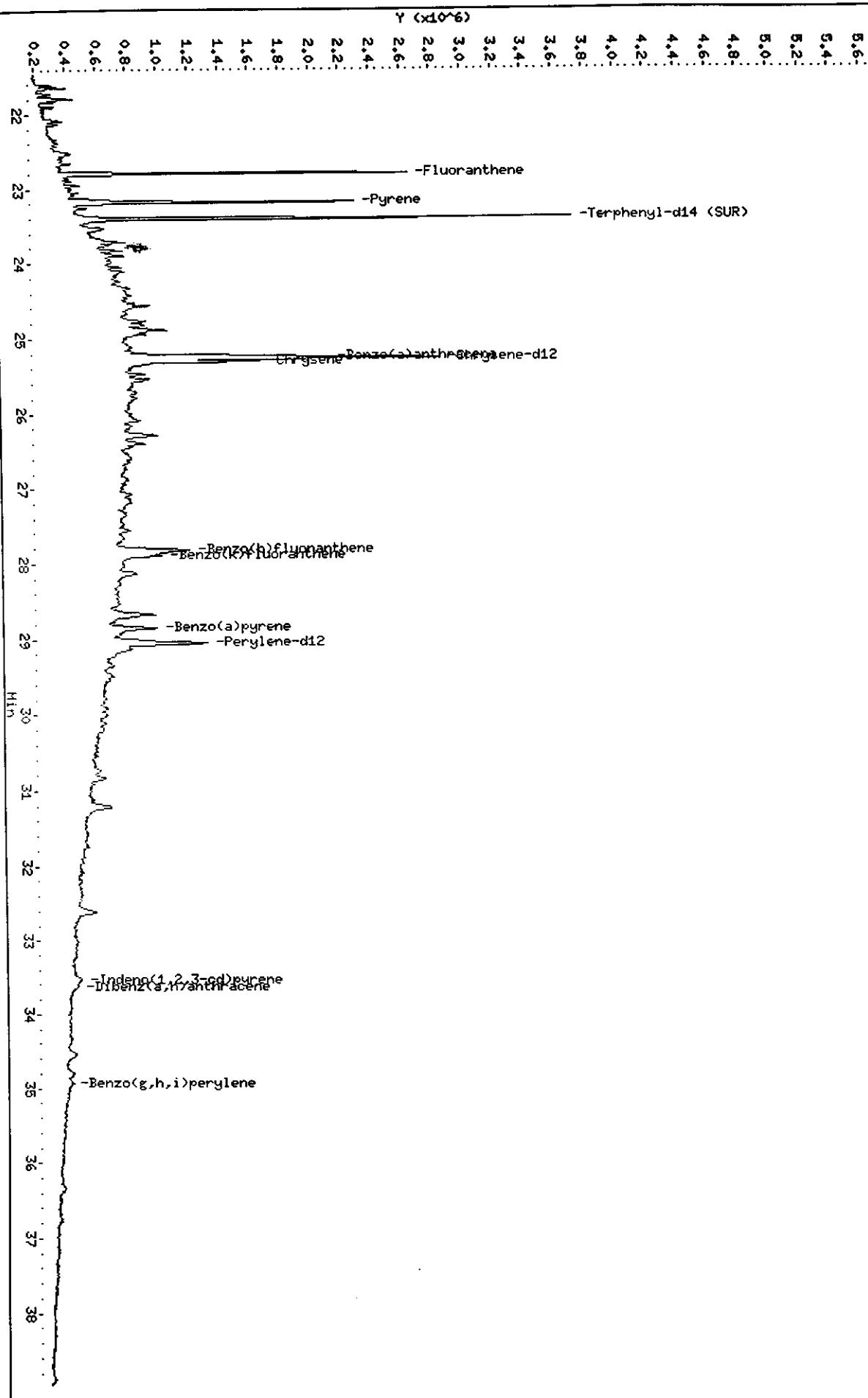
Column phase: DB-5

Instrument: BNHMS7.i

Operator: BNHMS 4

Column diameter: 0.25

/chem/BNHMS7.i/8270/10-27-00/31oct00.b/13269.d (Part 2 of 2)



Data File: /chem/BNAMS7.1/8270/10-27-00/31oct00.b/13269.d

Date : 31-OCT-2000 09:27

Client ID: EB-4_1,5-2

Sample Info: 237815;30;2;1;7.9

Instrument: BNAMS7.i

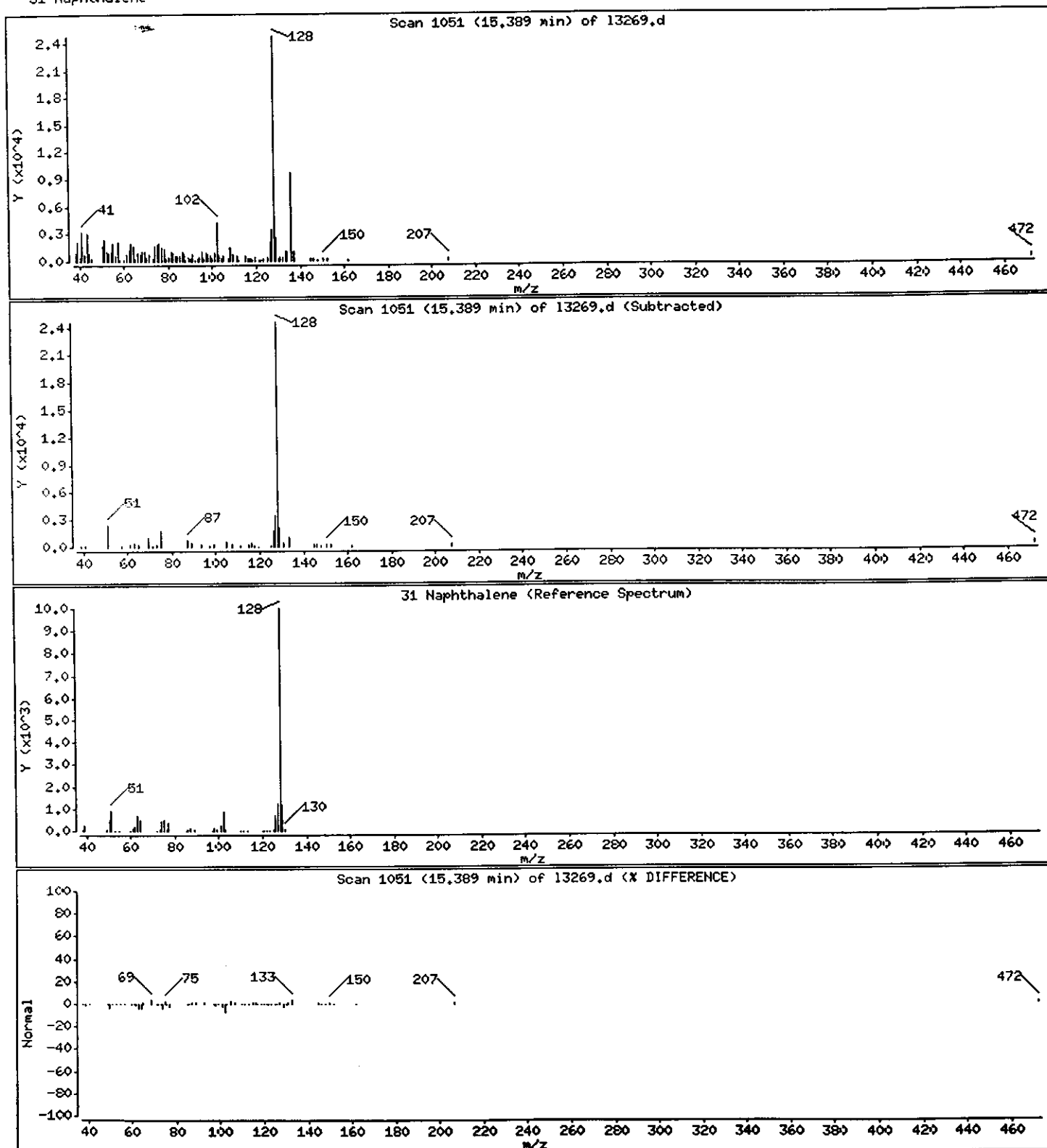
Operator: BNAMS 4

Column diameter: 0.25

Column phase: DB-5

Concentration: 71 ug/Kg

31 Naphthalene



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13269.d

Date : 31-OCT-2000 09:27

Client ID: EB-4_1.5-2

Sample Info: 237815;30;2;1;7.9

Instrument: BNAMS7.i

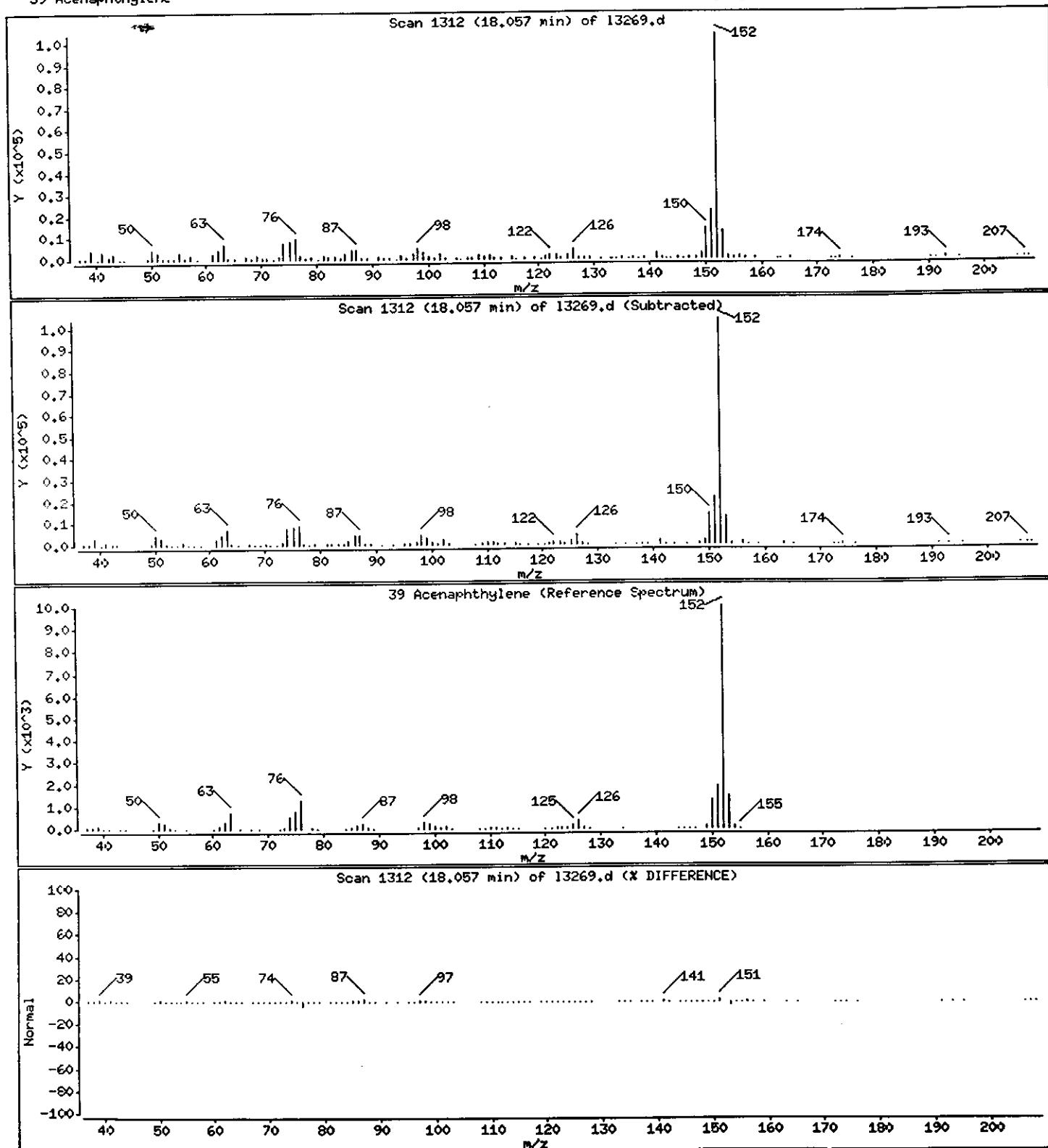
Operator: BNAMS 4

Column diameter: 0.25

Column phase: DB-5

Concentration: 290 ug/Kg

39 Acenaphthylene



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13269.d

Date : 31-OCT-2000 09:27

Client ID: EB-4_1.5-2

Sample Info: 237815;30;2;1;7.9

Instrument: BNAMS7.i

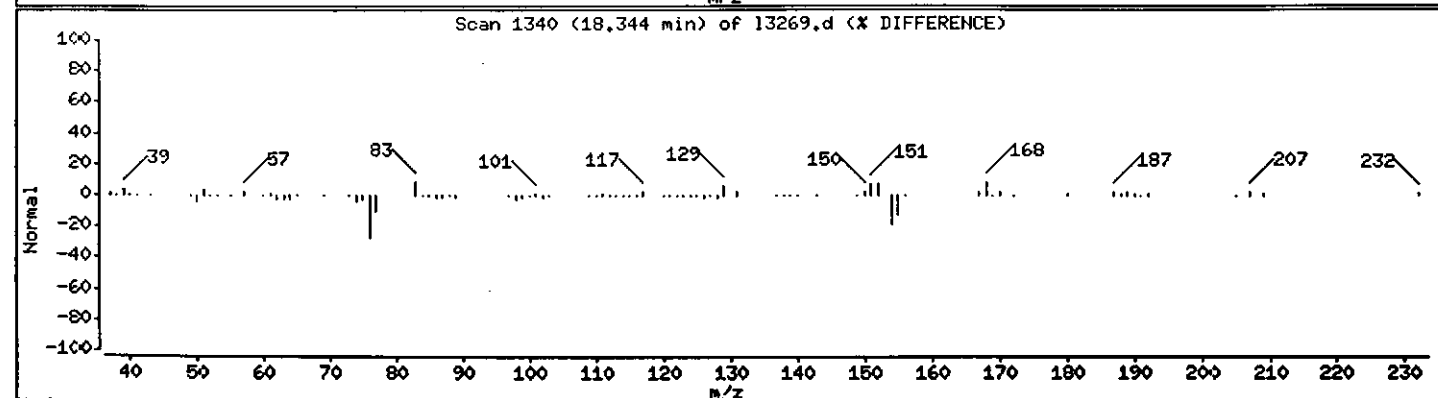
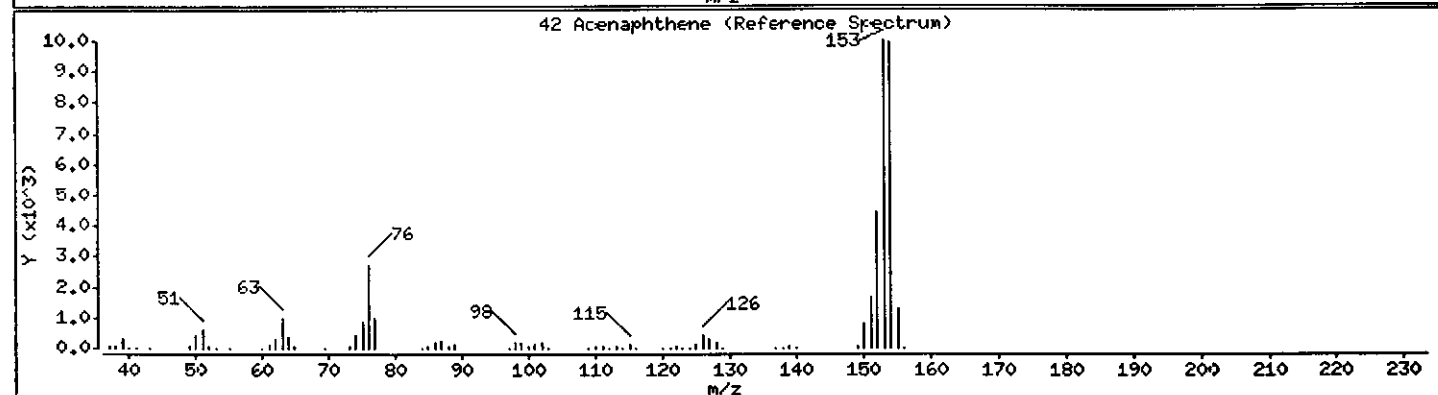
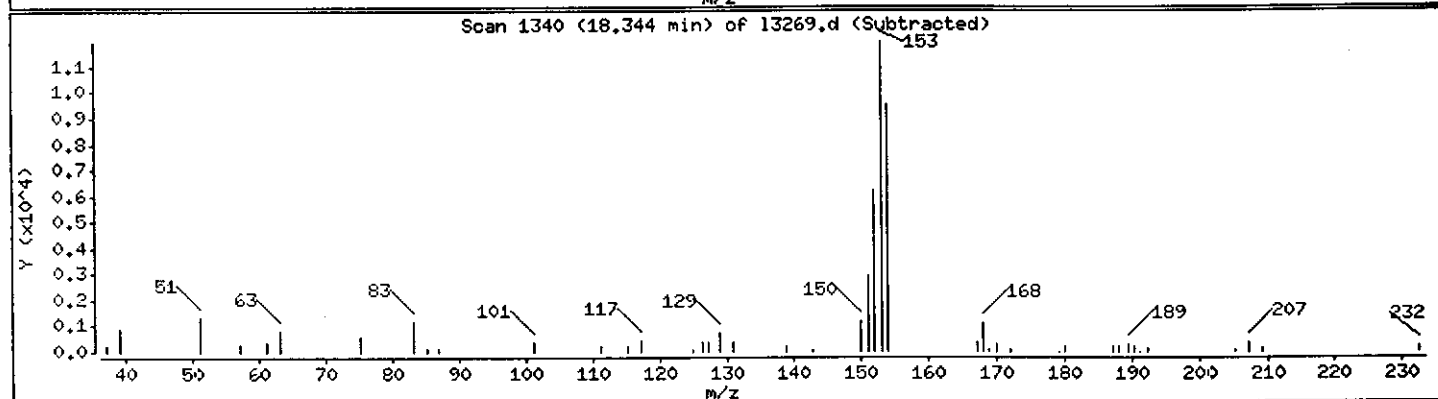
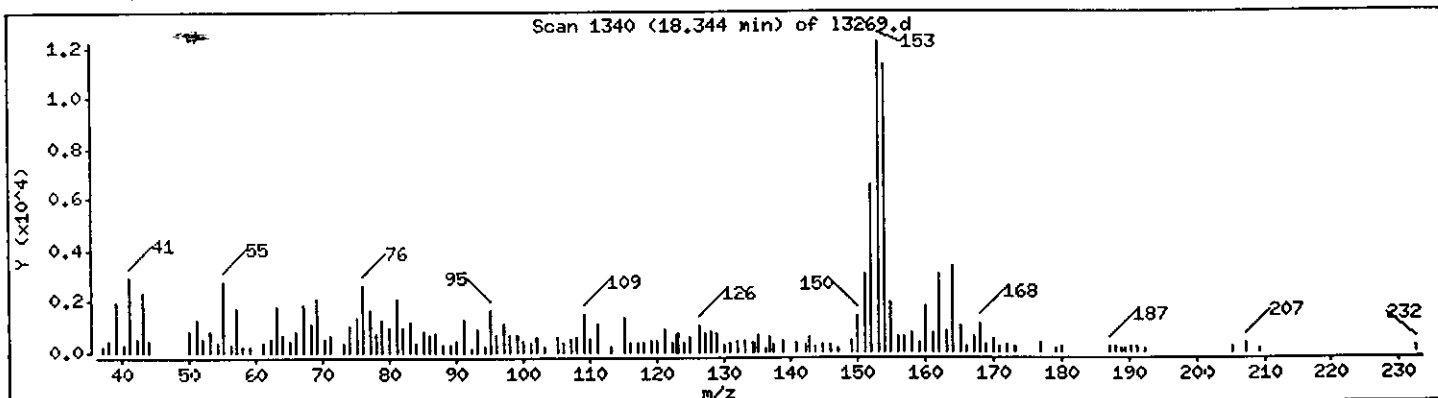
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

42 Acenaphthene

Concentration: 54 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13269.d

Date : 31-OCT-2000 09:27

Client ID: EB-4_1.5-2

Sample Info: 237815:30;2;1;7.9

Instrument: BNAMS7.i

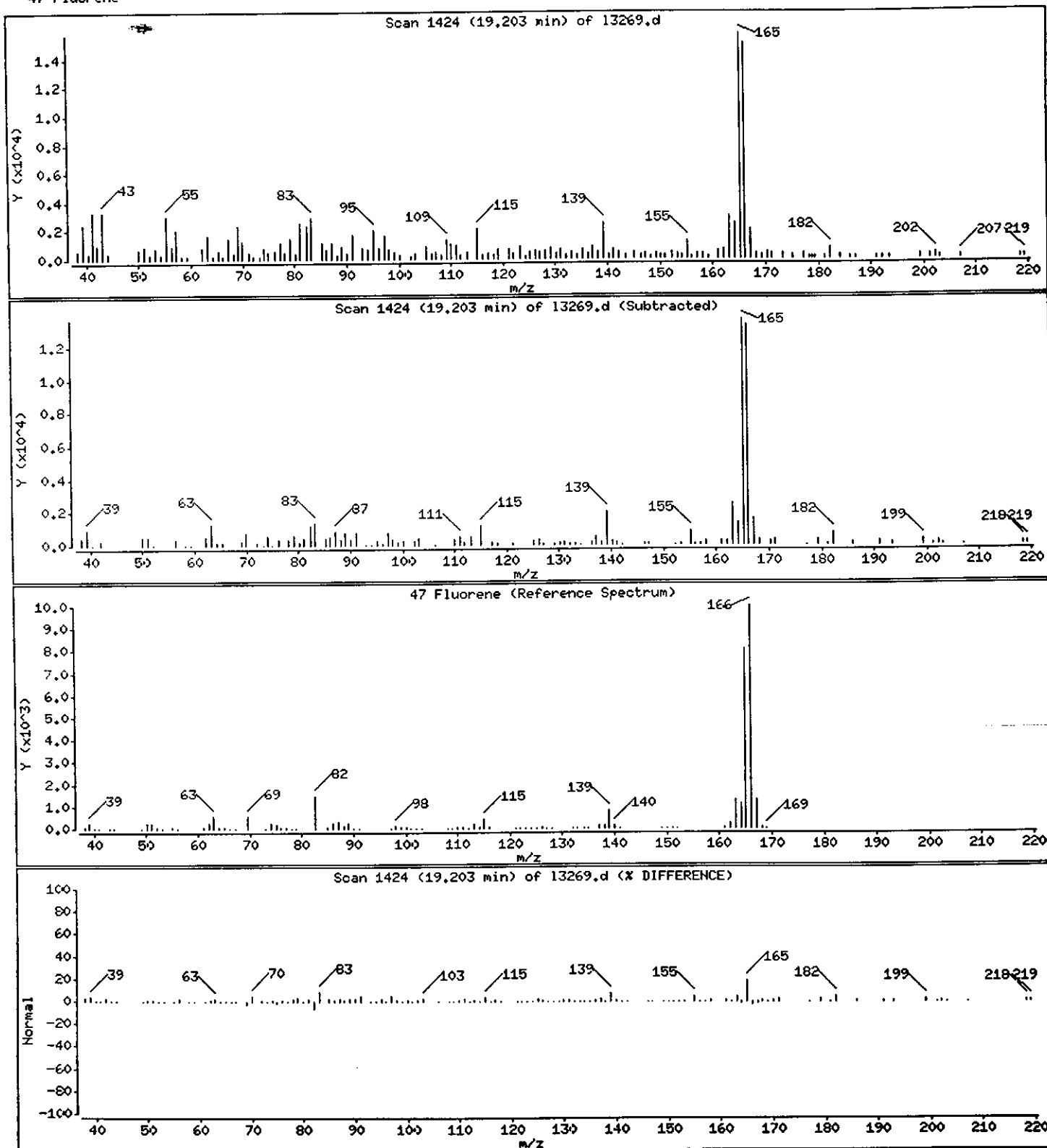
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

47 Fluorene

Concentration: 78 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13269.d

Date : 31-OCT-2000 09:27

Client ID: EB-4_1.5-2

Instrument: BNAMS7.i

Sample Info: 237815;30;2;1;7.9

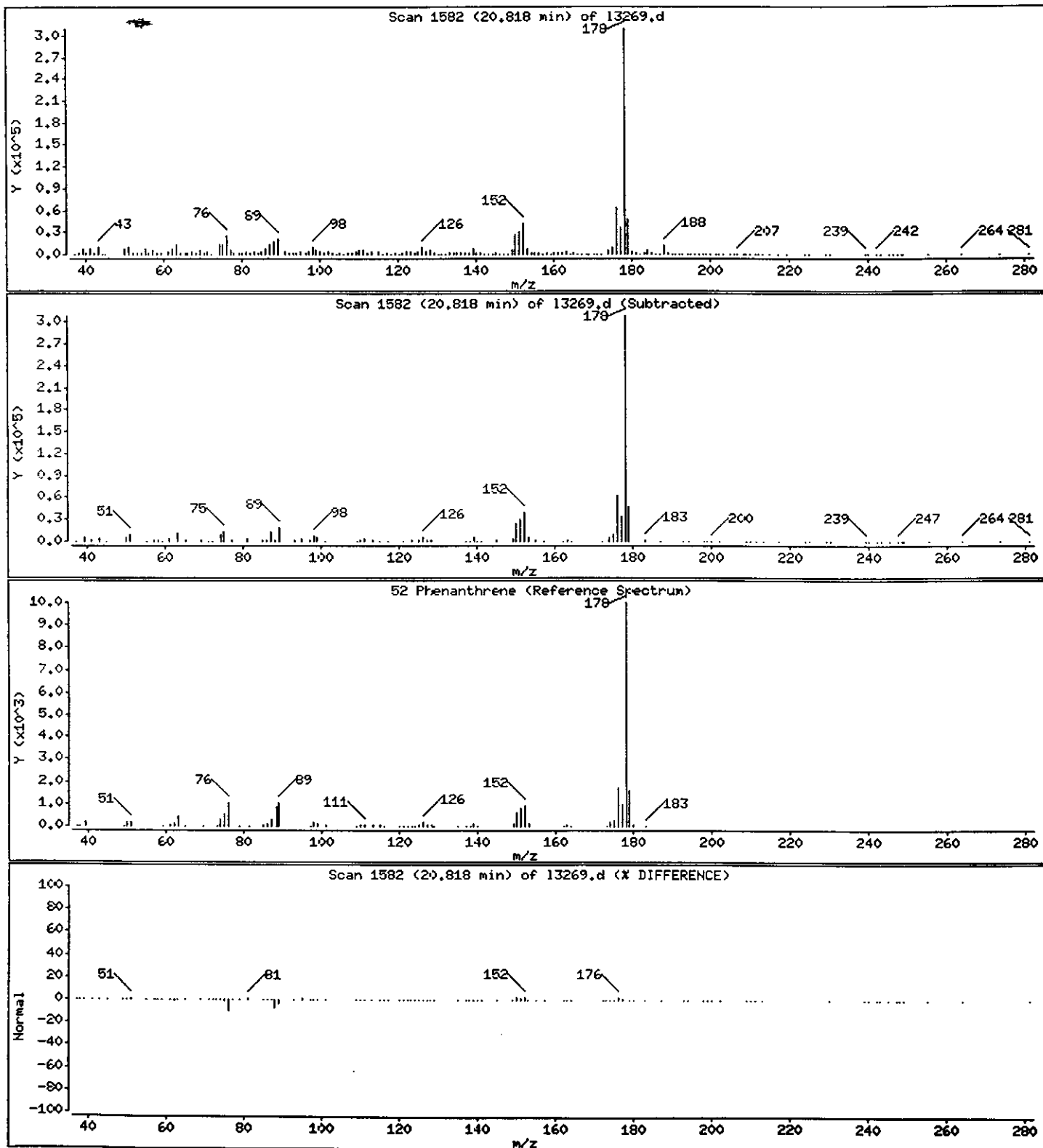
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

52 Phenanthrene

Concentration: 1000 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13269.d

Date : 31-OCT-2000 09:27

Client ID: EB-4_1.5-2

Sample Info: 237815;30;2;1;7.9

Instrument: BNAMS7.i

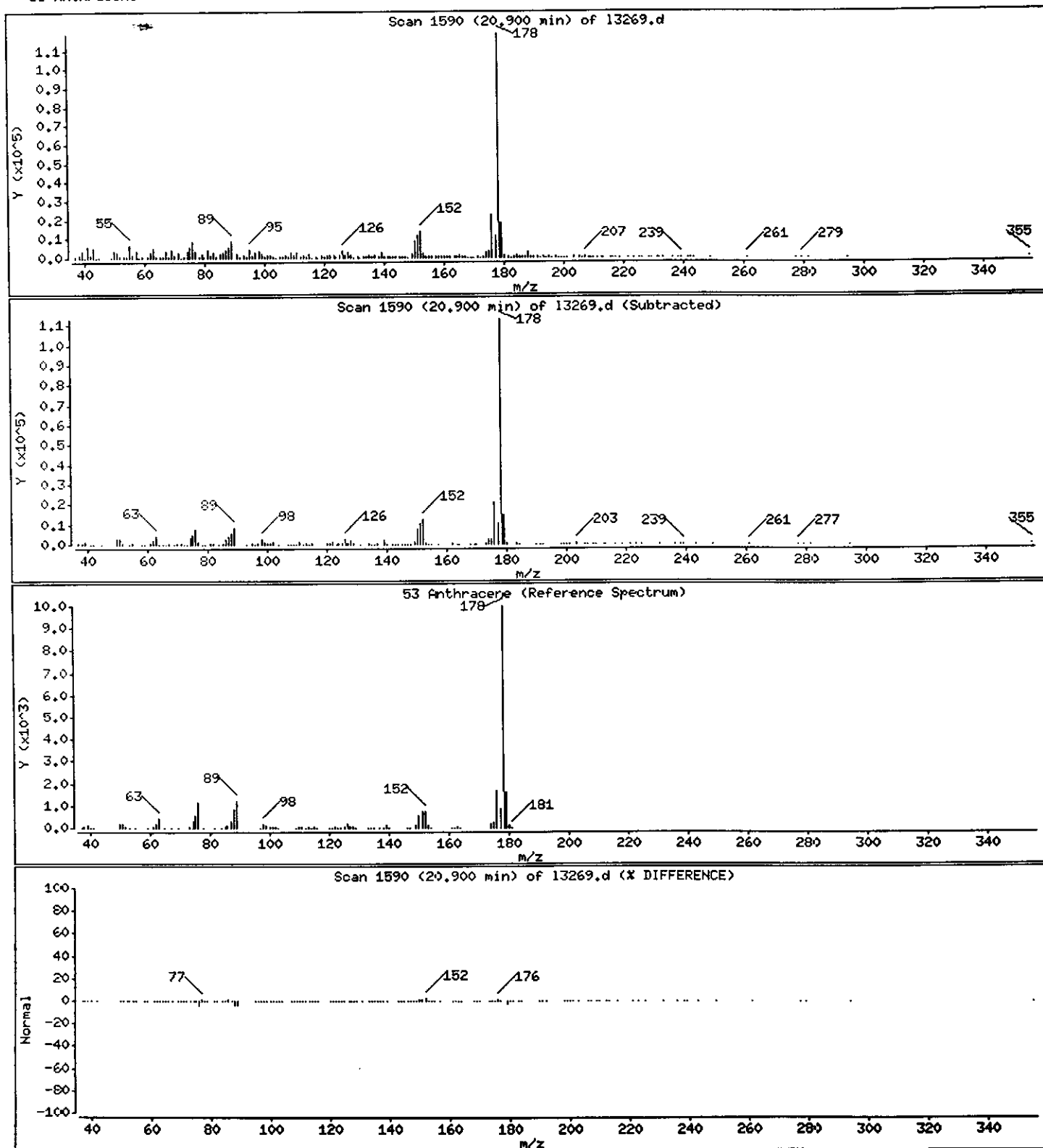
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

53 Anthracene

Concentration: 380 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13269.d

Date : 31-OCT-2000 09:27

Client ID: EB-4.1.5-2

Sample Info: 237815;30;2;1;7.9

Instrument: BNAMS7.i

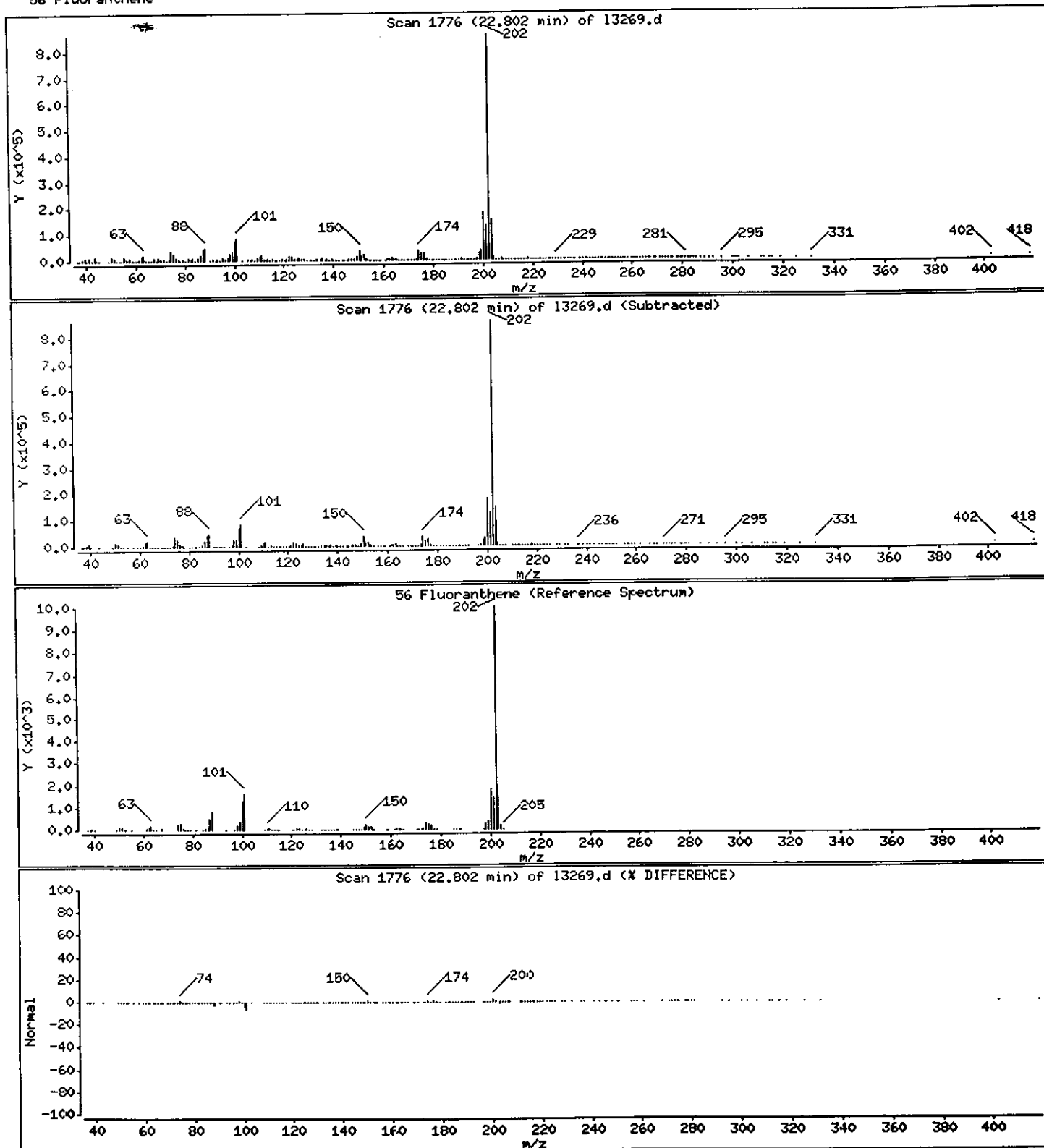
Operator: BNAMS 4

Column diameter: 0.25

Column phase: DB-5

Concentration: 2500 ug/Kg

56 Fluoranthene



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13269.d

Date : 31-OCT-2000 09:27

Client ID: EB-4_1.5-2

Sample Info: 237815;30;2;1;7.9

Instrument: BNAMS7.i

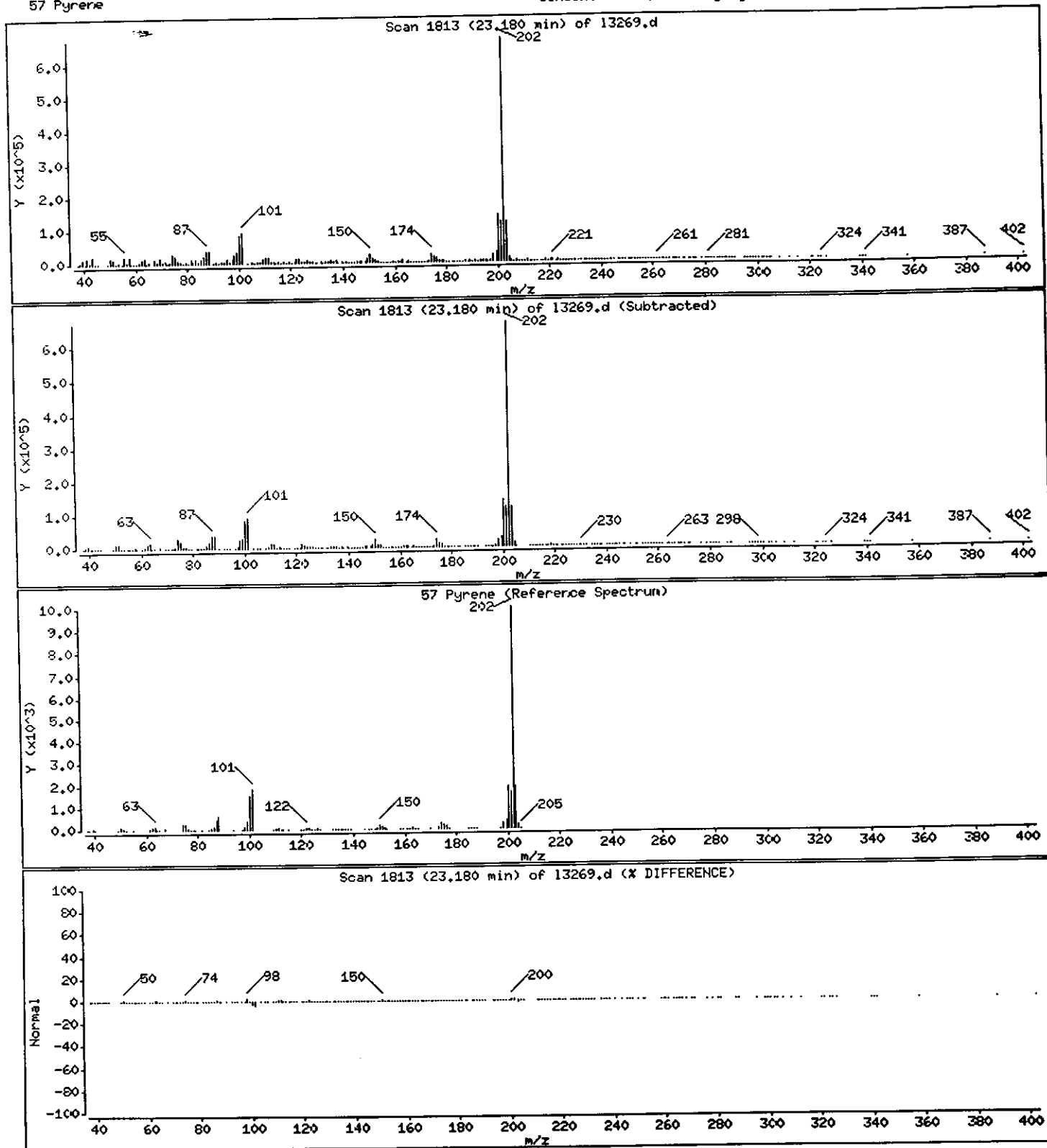
Operator: BNAMS 4

Column diameter: 0.25

Column phase: DB-5

Concentration: 2600 ug/Kg

57 Pyrene



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13269.d

Date : 31-OCT-2000 09:27

Client ID: EB-4_1,5-2

Sample Info: 237815;30;2;1;7,9

Instrument: INAMS7.1

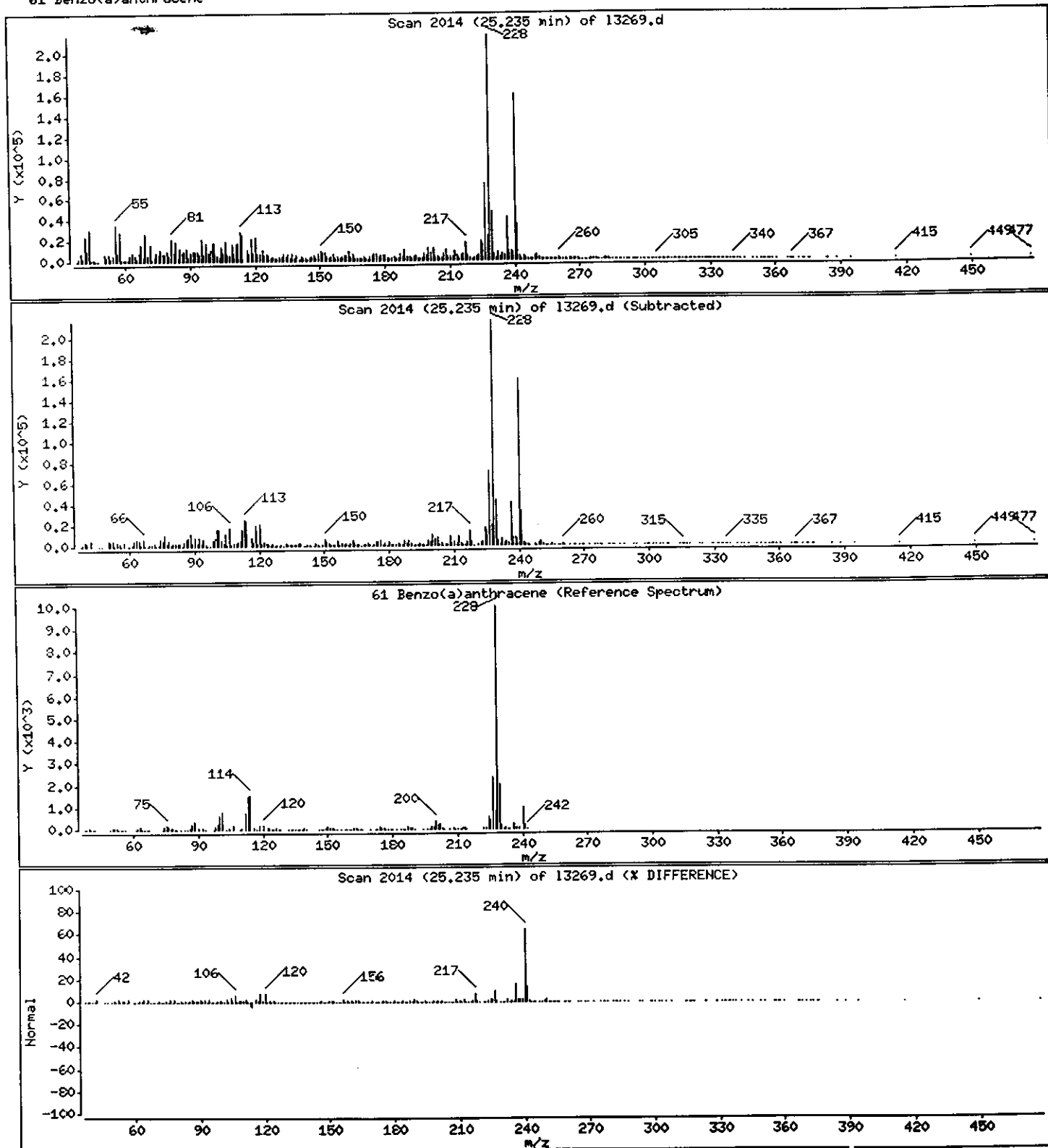
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

61 Benzo(a)anthracene

Concentration: 1300 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00,b/13269.d

Date : 31-OCT-2000 09:27

Client ID: EB-4.1.5-2

Sample Info: 237815;30;2;1;7.9

Instrument: BNAMS7.i

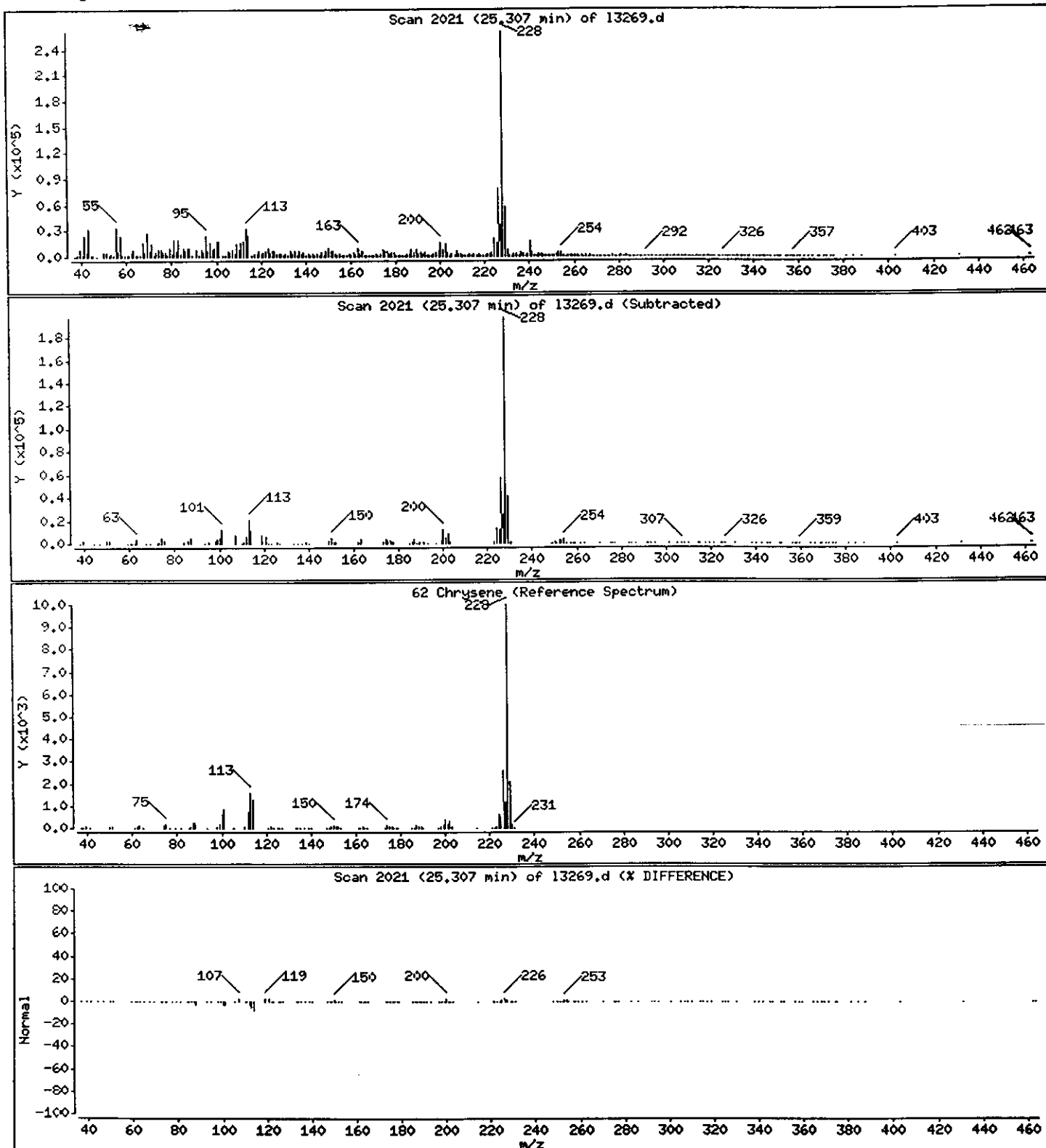
Operator: BNAMS 4

Column diameter: 0.25

Column phase: DB-5

Concentration: 1300 ug/Kg

62 Chrysene



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13269.d

Date : 31-OCT-2000 09:27

Client ID: EB-4.1.5-2

Sample Info: 237815;30;2;1;7.9

Instrument: BNAMS7.i

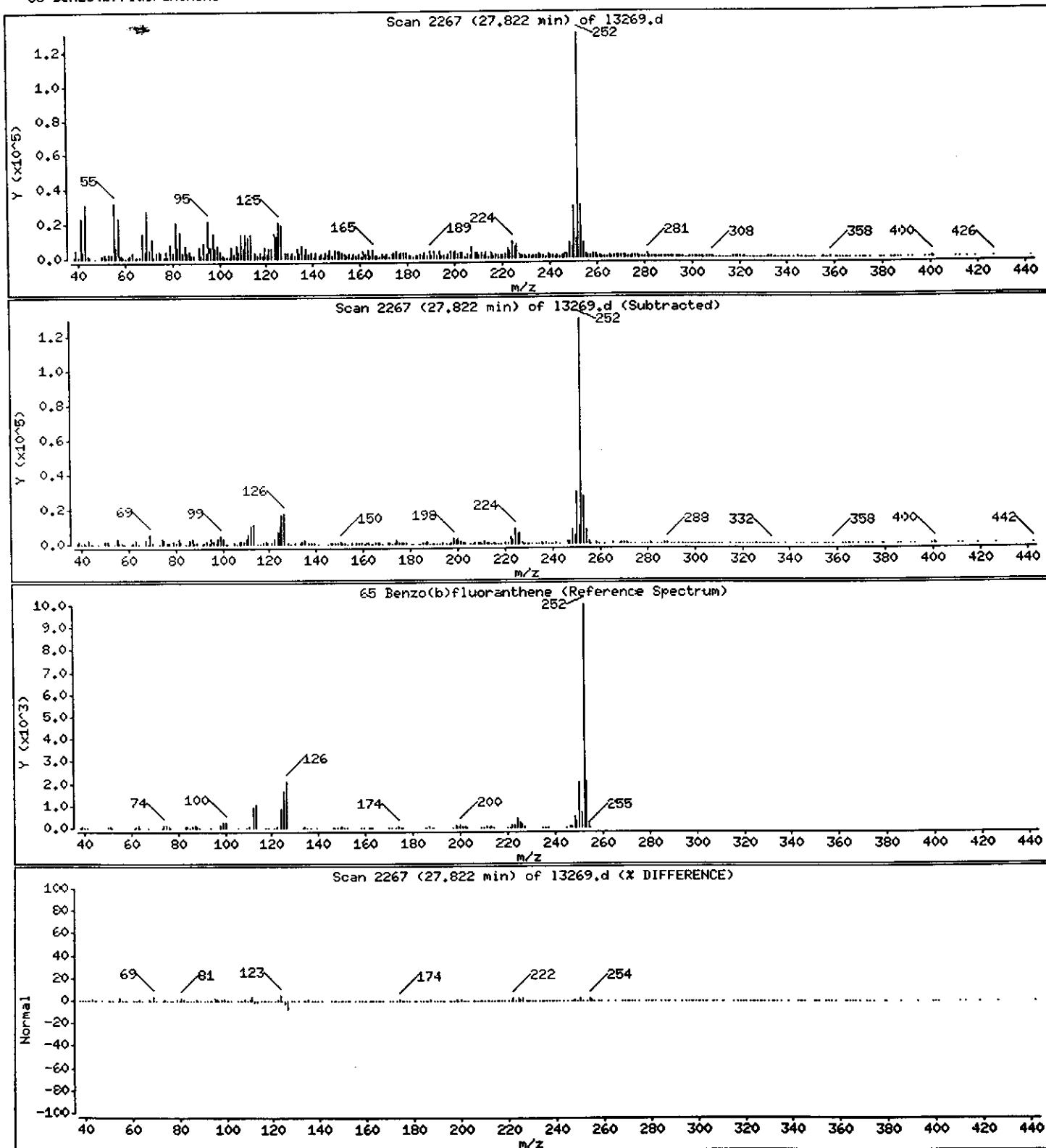
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

65 Benzo(b)fluoranthene

Concentration: 2000 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13269.d

Date : 31-OCT-2000 09:27

Client ID: EB-4_1.5-2

Sample Info: 237815;30;2;1;7.9

Instrument: BNAMS7.i

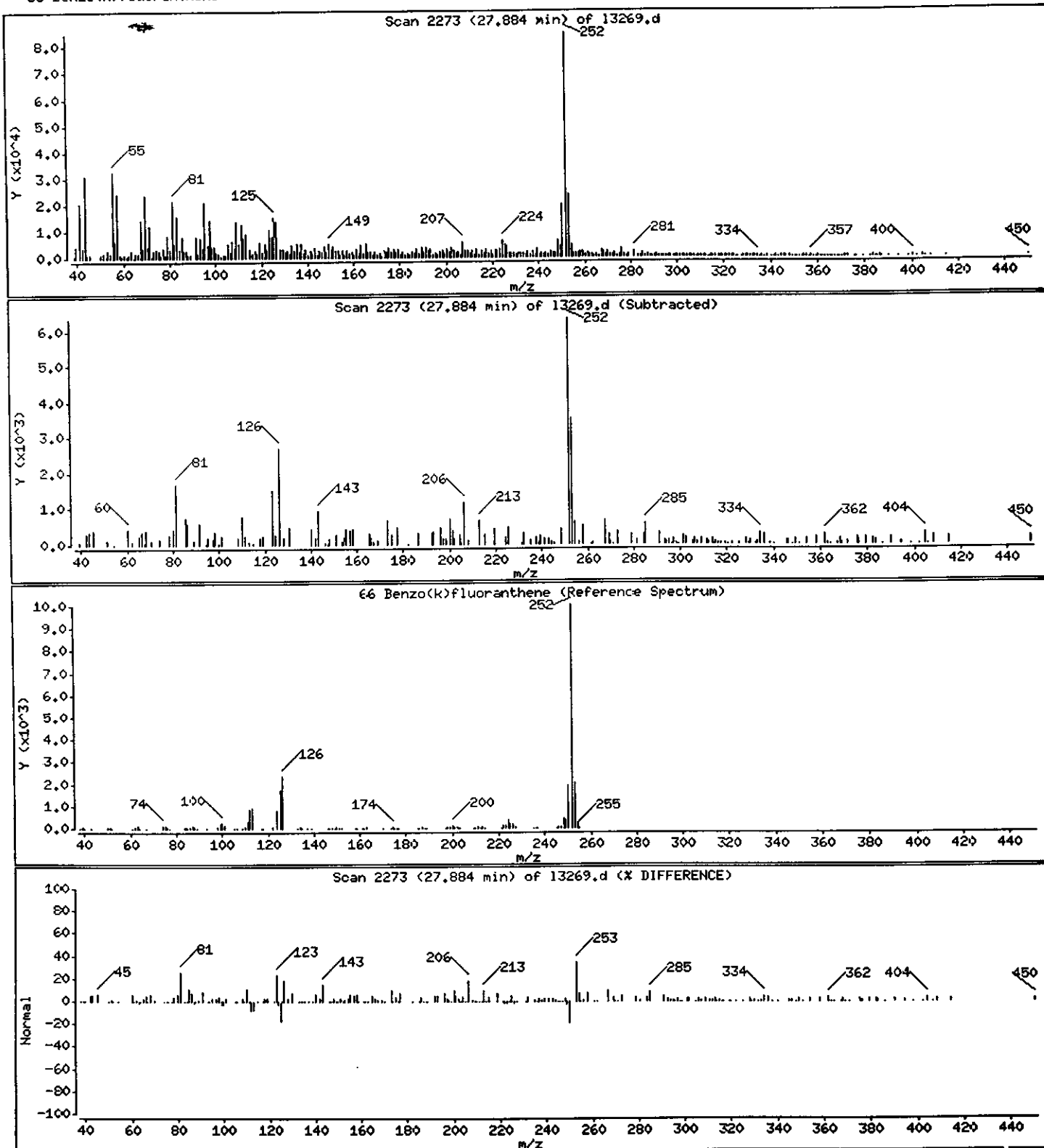
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

66 Benzo(k)fluoranthene

Concentration: 940 ug/Kg



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13269.d

Date : 31-OCT-2000 09:27

Client ID: EB-4_1.5-2

Sample Info: 237815;30;2;1;7.9

Instrument: BNAMS7.i

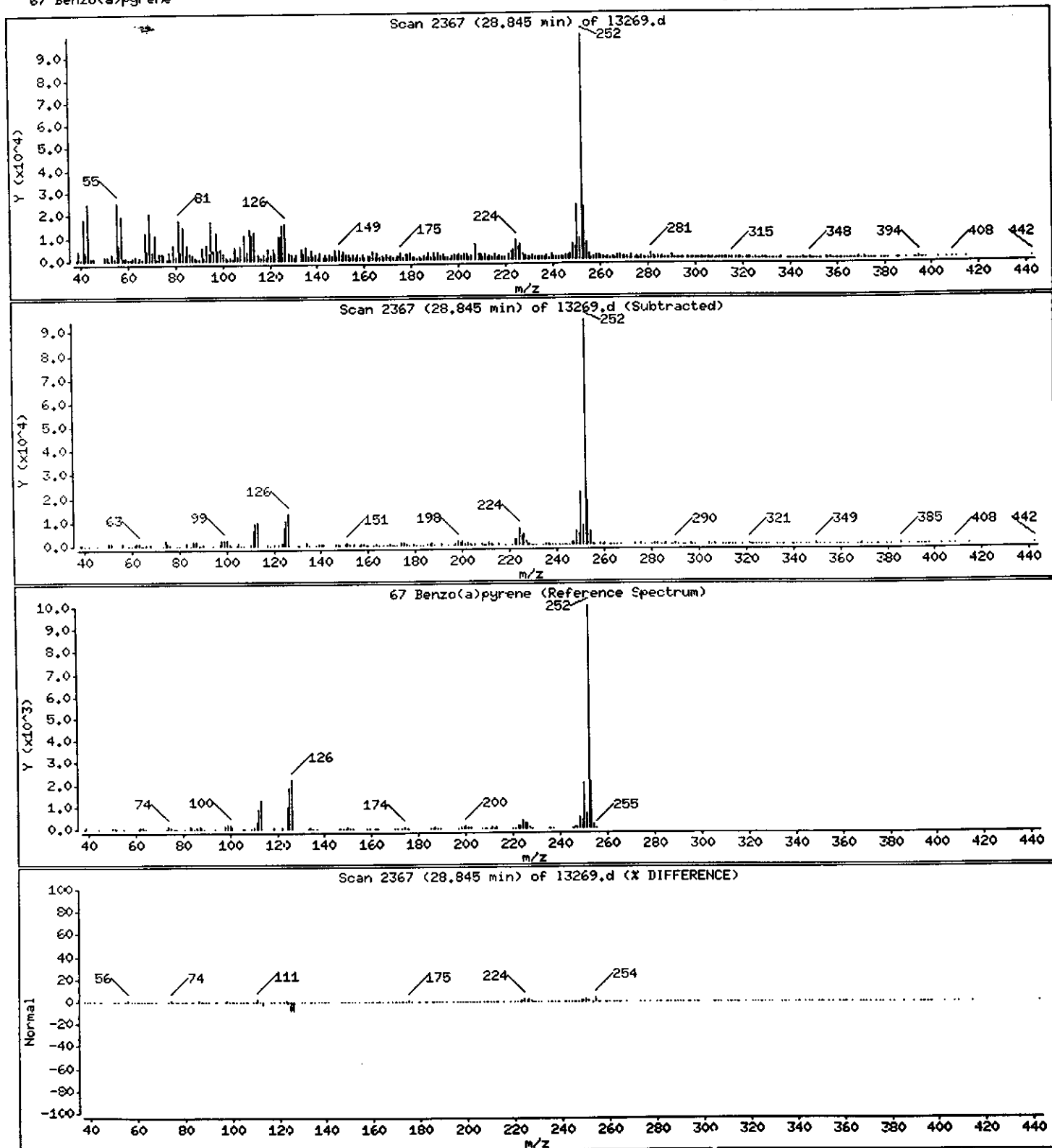
Operator: BNAMS 4

Column diameter: 0.25

Column phase: DB-5

Concentration: 1300 ug/Kg

67 Benzo(a)pyrene



Data File: /chem/BNHMS7.1/8270/10-27-00/31oct00.b/13269.d

Date : 31-OCT-2000 09:27

Client ID: EB-4.1.5-2

Sample Info: 237815;30;2;1;7.9

Instrument: BNHMS7.1

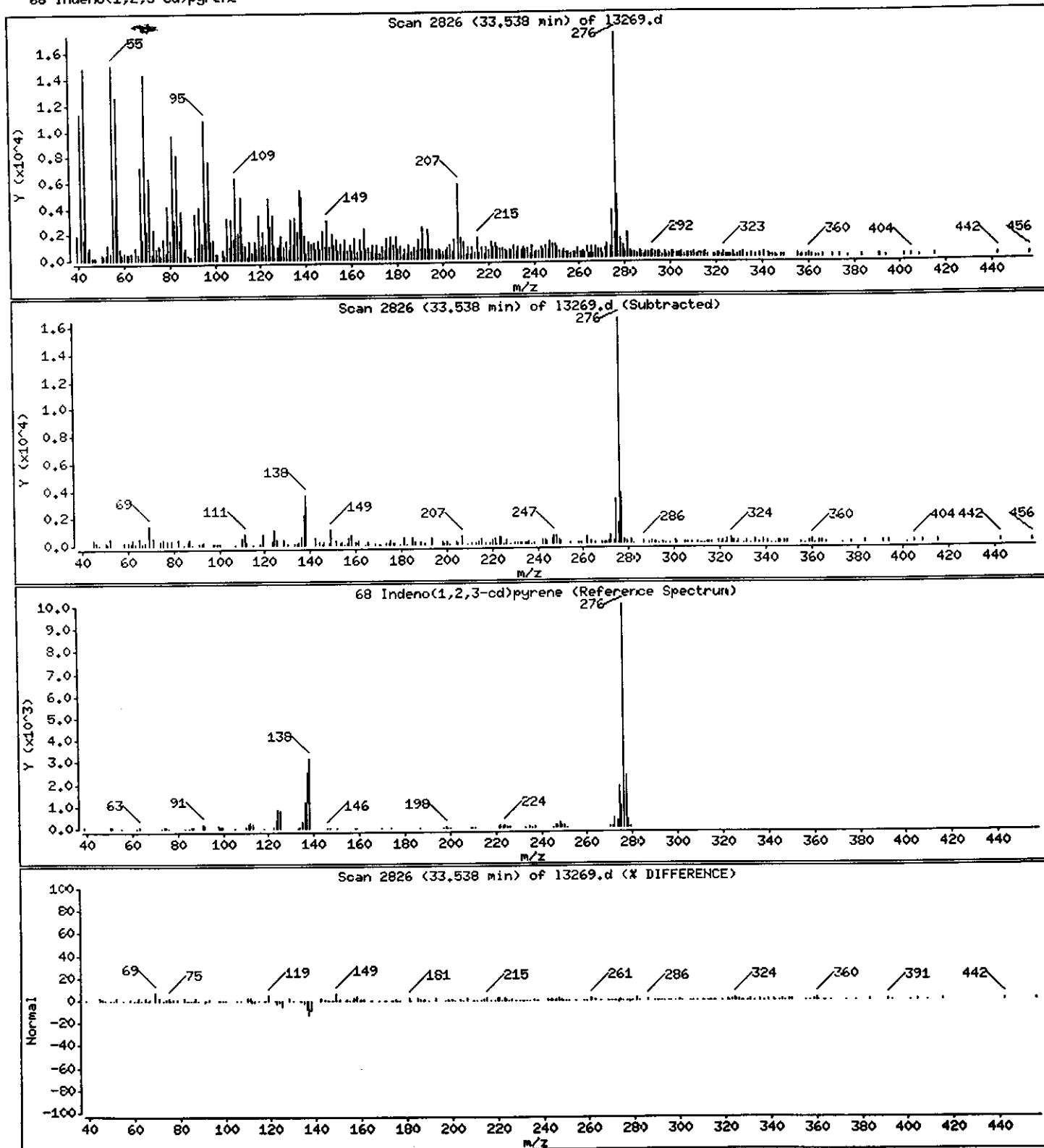
Operator: BNHMS 4

Column diameter: 0.25

Column phase: DB-5

Concentration: 490 ug/Kg

68 Indeno(1,2,3-cd)pyrene



Data File: /chem/BNAMS7.1/8270/10-27-00/31oct00.b/13269.d

Date : 31-OCT-2000 09:27

Client ID: EB-4.1.5-2

Sample Info: 237815;30;2;1;7,9

Instrument: INAMS7.1

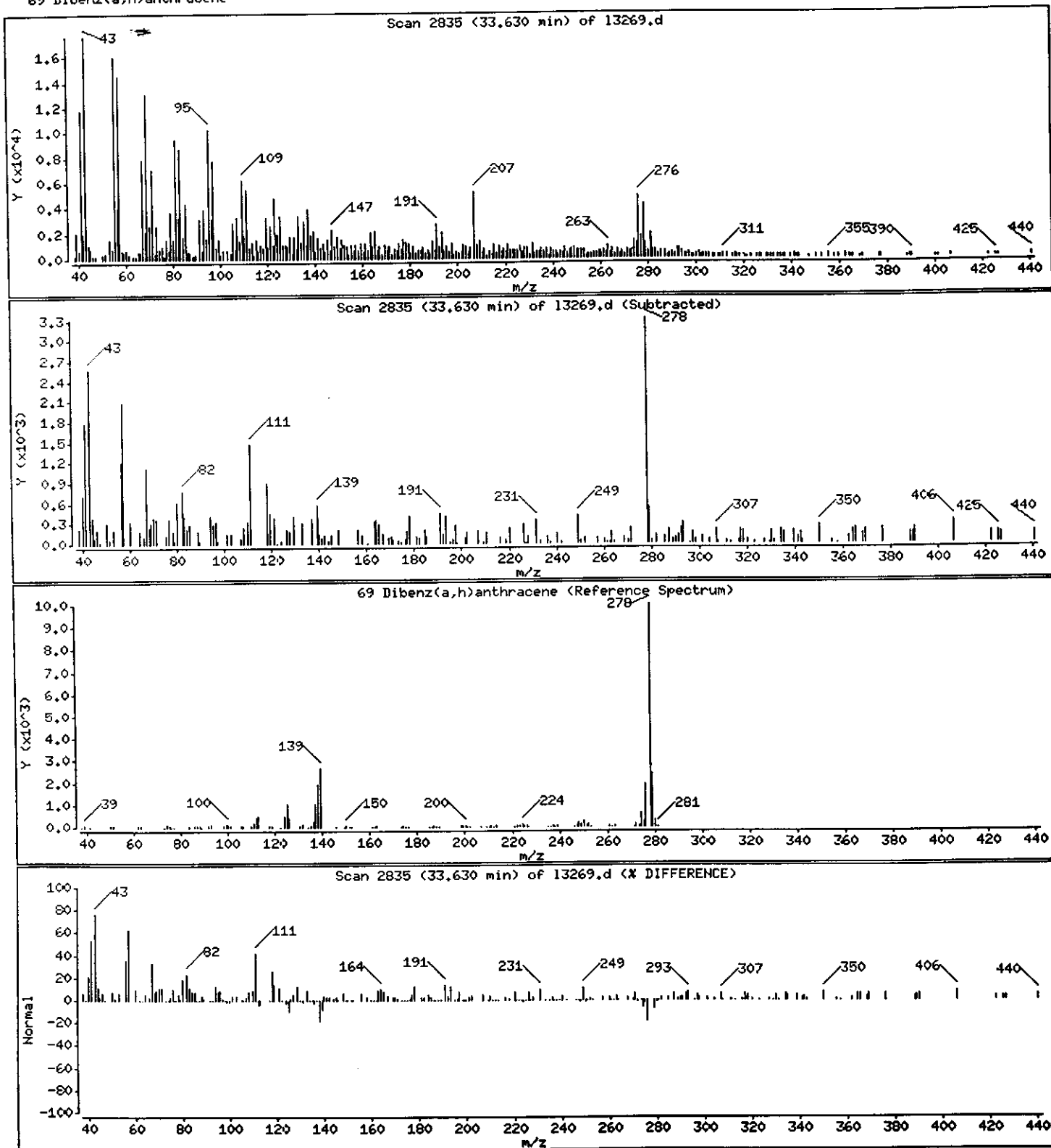
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

69 Dibenz(a,h)anthracene

Concentration: 81 ug/Kg



Data File: /chem/BNAMS7.1/8270/10-27-00/31oct00.b/13269.d

Date : 31-OCT-2000 09:27

Client ID: EB-4.1.5-2

Sample Info: 237815;30;2;1;7.9

Instrument: BNAMS7.1

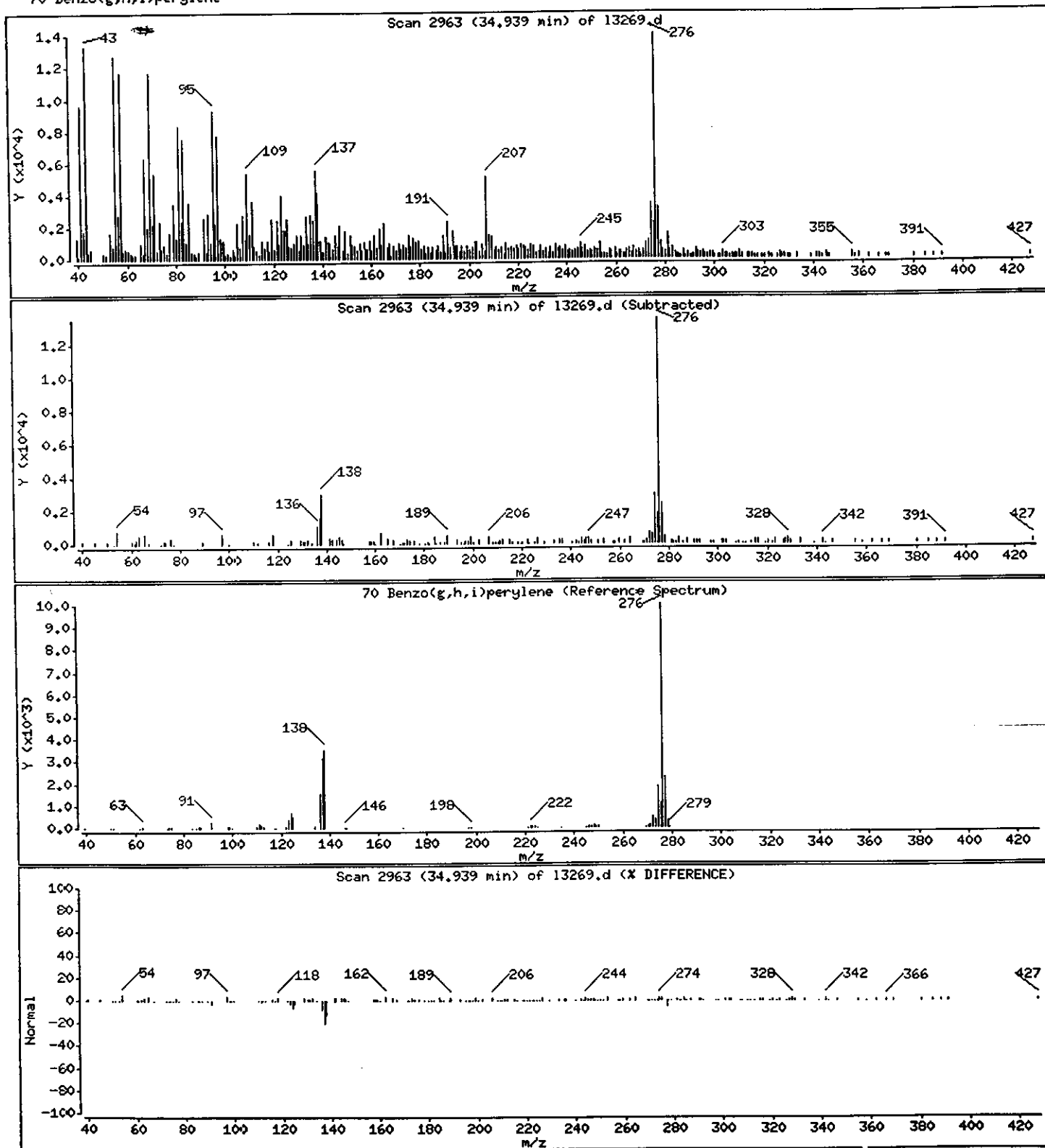
Operator: BNAMS 4

Column diameter: 0.25

Column phase: DB-5

Concentration: 370 ug/Kg

70 Benzo(g,h,i)perylene



Data File: /chem/BNAMS7.1/8270/10-27-00/31oct00.b/13269.d

Date : 31-OCT-2000 09:27

Client ID: EB-4.1.5-2

Sample Info: 237815:30;2;1;7.9

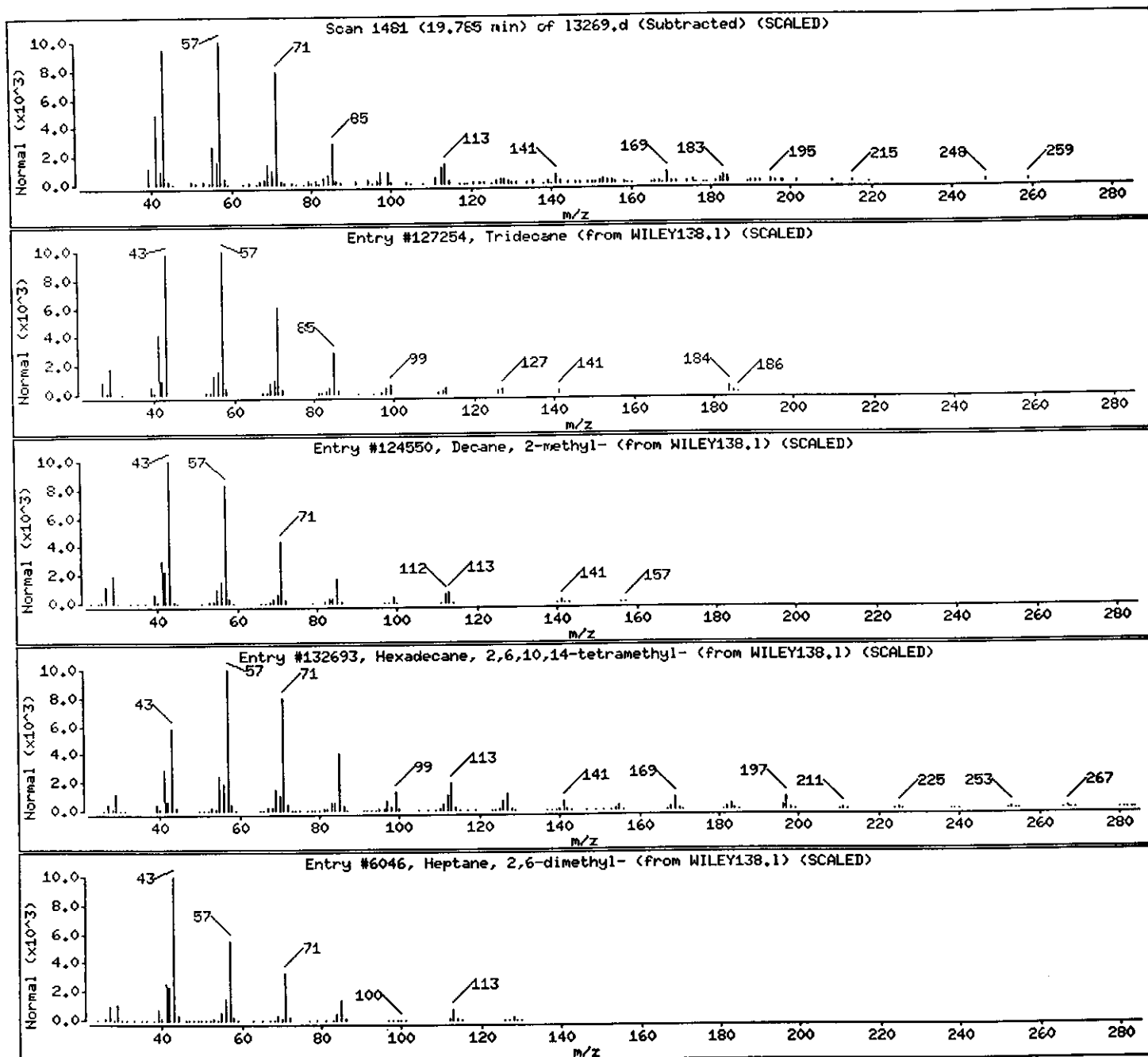
Instrument: BNAMS7.1

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Tridecane	629-50-5	WILEY138.1	127254	93	C13H28	184
Decane, 2-methyl-	6975-98-0	WILEY138.1	124550	87	C11H24	156
Hexadecane, 2,6,10,14-tetramethyl-	638-36-8	WILEY138.1	132693	80	C20H42	282
Heptane, 2,6-dimethyl-	1072-05-5	WILEY138.1	6046	72	C9H20	128



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13269.d

Date : 31-OCT-2000 09:27

Client ID: EB-4.1.5-2

Instrument: BNAMS7.i

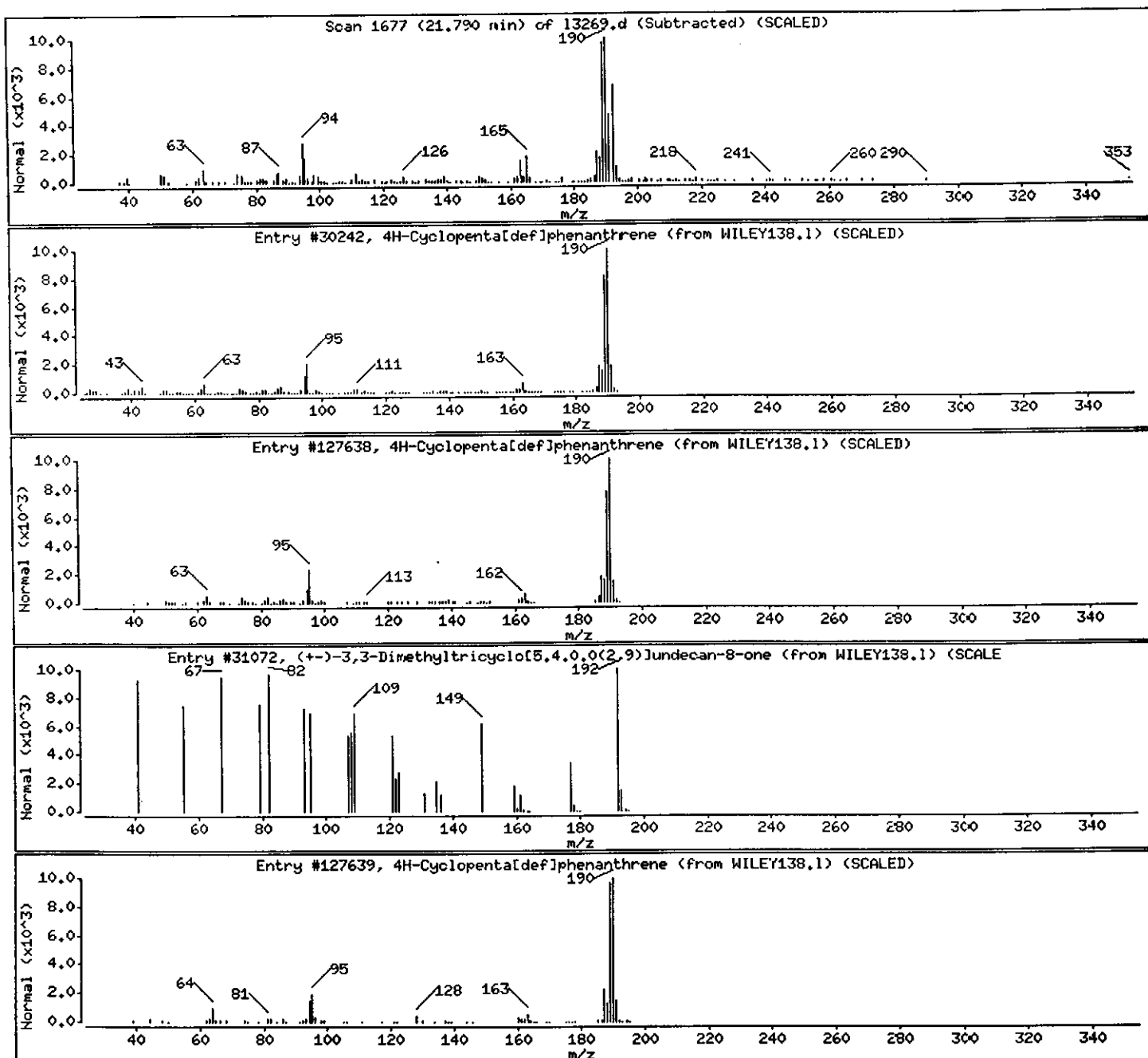
Sample Info: 237815;30;2;1;7.9

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
C15H10/C15H12 PAHs						
4H-Cyclopenta[def]phenanthrene	203-64-5	WILEY138.1	30242	92	C15H10	190
4H-Cyclopenta[def]phenanthrene	203-64-5	WILEY138.1	127638	60	C15H10	190
(+)-3,3-Dimethyltricyclo[5.4.0.0(2,9)]u	57769-52-2	WILEY138.1	31072	56	C13H200	192
4H-Cyclopenta[def]phenanthrene	203-64-5	WILEY138.1	127639	47	C15H10	190



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13269.d

Date : 31-OCT-2000 09:27

Client ID: EB-4_1.5-2

Sample Info: 237815;30;2;1;7.9

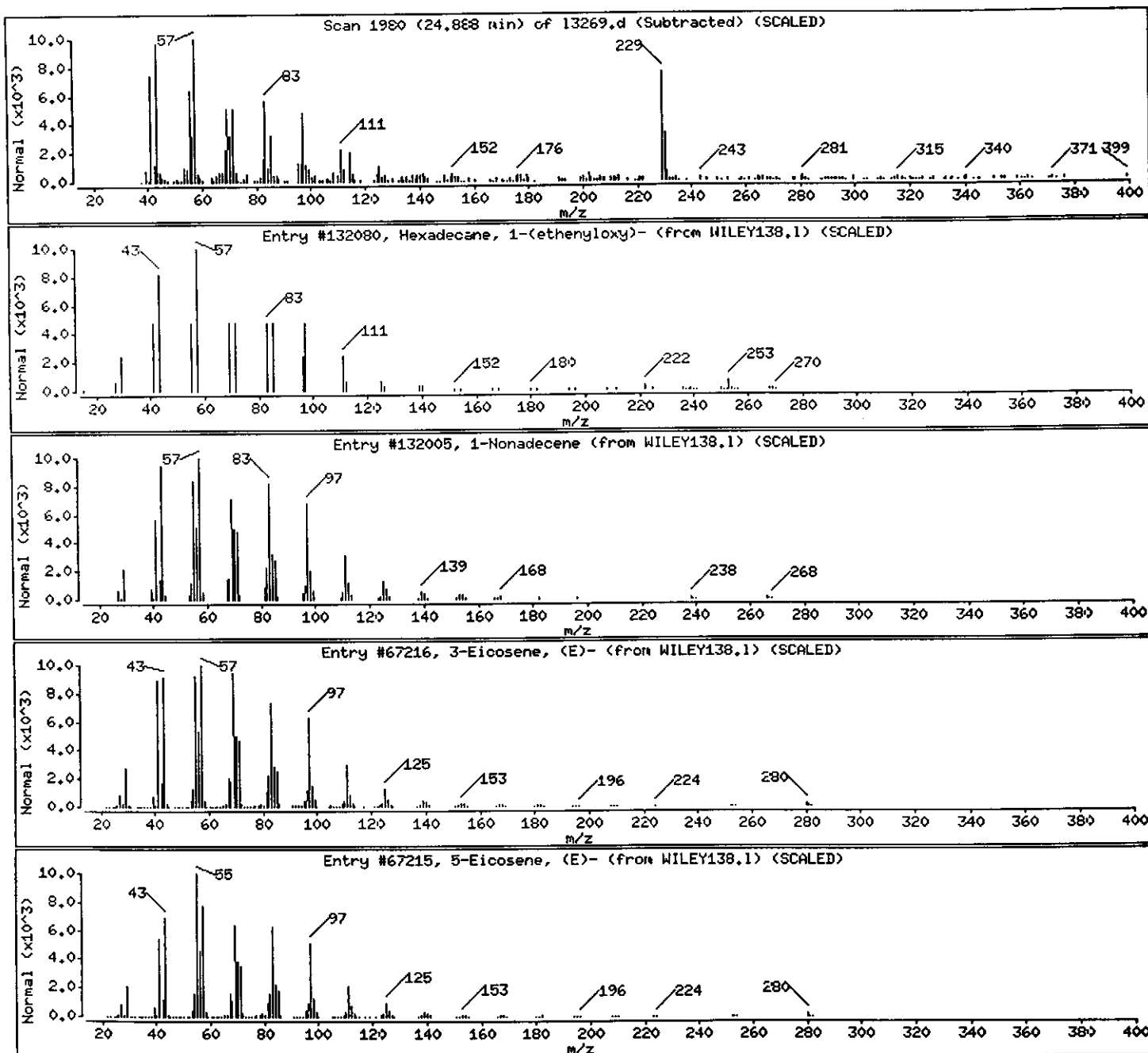
Instrument: ENAMS7.i

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Hexadecane, 1-(ethenyl)-	822-28-6	WILEY138.1	132080	64	C18H36O	268
1-Nonadecene	18435-45-5	WILEY138.1	132005	62	C19H38	266
3-Eicosene, (E)-	74685-33-9	WILEY138.1	67216	62	C20H40	280
5-Eicosene, (E)-	74685-30-6	WILEY138.1	67215	59	C20H40	280



Data File: /chem/BNAMS7.1/8270/10-27-00/31oct00.b/13269.d

Date : 31-OCT-2000 09:27

Client ID: EB-4.1.5-2

Sample Info: 237815;30;2;1;7.9

Instrument: BNAMS7.1

Operator: BNAMS 4

Column phase: DB-5

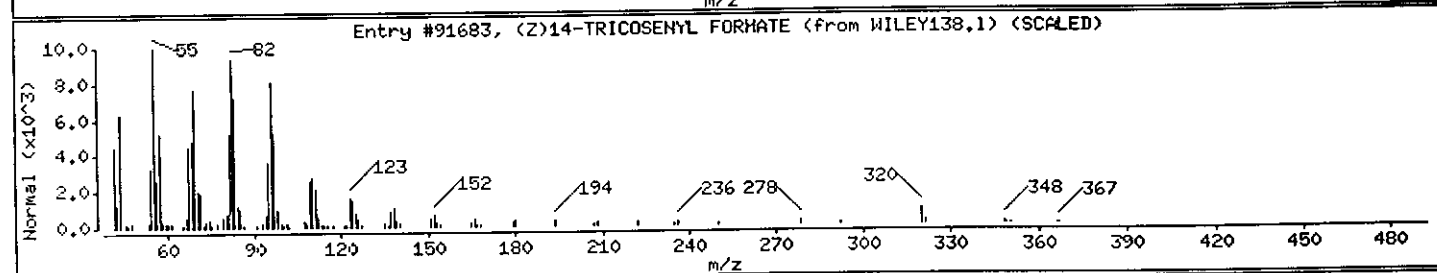
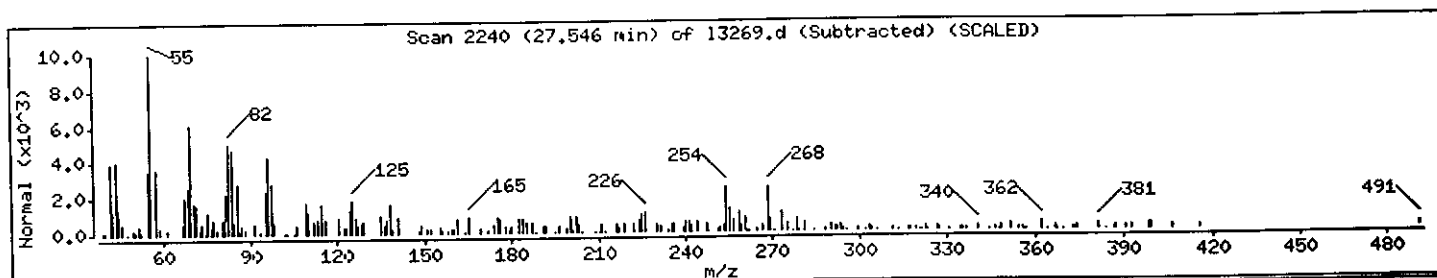
Column diameter: 0.25

Library Search Compound Match

Unknown

(Z)-14-TRICOSENYL FORMATE

CAS Number	Library	Entry	Quality	Formula	Weight
77899-10-6	WILEY138.1	91683	27	C24H46O2	366



Data File: /chem/BNAMS7.i/8270/10-27-00/31oct00.b/13269.d

Date : 31-OCT-2000 09:27

Client ID: EB-4.1.5-2

Sample Info: 237815;30;2;1;7.9

Instrument: BNAMS7.i

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
C20H12 PAH						
Benzo[j]fluoranthene	205-82-3	WILEY138.1	57583	78	C20H12	252
Benzo[a]pyrene	50-32-8	WILEY138.1	131404	78	C20H12	252
Benzo[a]pyrene	50-32-8	WILEY138.1	131403	78	C20H12	252
Benzo[k]fluoranthene	207-08-9	WILEY138.1	131409	78	C20H12	252

