United States Army
Fort Monmouth, New Jersey

Underground Storage Tank Closure and Site Investigation Report

Building 295
Main Post

NJDEP UST Registration No. 0081533-68
NJDEP Closure Approval No. C-93-3918

MAY 2000

UNDERGROUND STORAGE TANK
CLOSURE AND SITE INVESTIGATION REPORT

BUILDING 295

MAIN POST
NJDEP UST REGISTRATION NO. 0081533-68
NJDEP CLOSURE APPROVAL NO. C-93-3918

MAY 2000

PROJECT NO.: 09-5004-08
CONTRACT NO.: DACA51-94-D-0014

PREPARED FOR:

UNITED STATES ARMY, FORT MONMOUTH, NEW JERSEY
DIRECTORATE OF PUBLIC WORKS
BUILDING 167
FORT MONMOUTH, NJ 07703

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EXECUTIVE SUMMARY

UST Closure

On September 13, 1994, a steel underground storage tank (UST) was closed by removal in accordance with the New Jersey Department of Environmental Protection (NJDEP) Closure Approval No. C-93-3918 at U.S. Army Fort Monmouth, Fort Monmouth, New Jersey. The UST, NJDEP Registration No. 0081533-68, was located immediately adjacent to Building 295 in the Main Post area of U.S. Army, Fort Monmouth. UST No. 0081533-68 was a 3,000-gallon No. 2 diesel oil UST. The UST fill port was located directly above the tank. The tank closure was performed by Cleaning Up The Environment Inc. (CUTE).

Site Assessment

The site assessment was performed by U.S. Army personnel in accordance with the NJDEP *Technical Requirements for Site Remediation* (N.J.A.C. 7:26E) and the NJDEP *Field Sampling Procedures Manual*. Soils surrounding the tank were screened visually and with air monitoring equipment for evidence of contamination. Following removal, the UST was inspected for corrosion holes. Holes were noted in the UST, and free product was observed in the excavation.

On September 15, 1994, approximately 20 cubic yards of potentially contaminated soils were removed from the excavation due to visible free product.

On December 7, 1994, two post-excavation soil samples (Site B and Site B Dup) were collected. The samples were analyzed for volatile organic compounds plus 15 tentatively identified compounds (VOCs).

On December 8, 1994, post-excavation soil samples A, B, C, and D were collected from a total of four (4) locations along the sidewalls of the excavation, immediately above groundwater. The samples were collected at a depth of 4.5 feet bgs. Samples E, and DUP E were collected from one (1) location from the base of the piping portion of the excavation at a depth of 3.5 feet bgs. This former piping area extended approximately 10 feet from the excavation to Building 295. Groundwater was present in the excavation at a depth of approximately 5.0 feet bgs. The UST excavation had remained open for approximately three months, therefore the soil samples were collected one foot into the sidewalls of the excavation.

Findings

All post-excavation soil samples collected from the UST excavation and from below piping associated with the former UST at Building 295 contained TPHC concentrations below the NJDEP residential direct contact total organic contaminants soil cleanup criteria of 10,000 milligrams per kilogram (mg/kg) (N.J.A.C. 7:26D and revisions dated February 3, 1994). Samples Site B and Site B Dup, collected on December 7, 1994, contained

trichlorofluoromethane at 0.012 mg/kg. No other compounds were detected. Samples A, B, C, D, E, and DUP E, collected on December 8, 1994, contained levels of TPHC ranging in concentration from 26.0 mg/kg to 144.0 mg/kg.

Site Restoration

Following receipt of all post-excavation soil sampling results, the excavation was backfilled to grade with a combination of uncontaminated excavated soil and certified clean fill. The excavation site was then restored to its original condition.

Site Assessment Quality Assurance

The sampling and laboratory analysis conducted during the site assessment were performed in accordance with Section 7:26E-2.1 of the *Technical Requirements for Site Remediation*.

Conclusions and Recommendations

Based on the post-excavation soil sampling results, soils with TPHC concentrations exceeding the NJDEP soil cleanup criteria for total organic contaminants of 10,000 mg/kg, do not exist in the former location of the UST or associated piping.

No further action is proposed in regard to the closure and site assessment of UST No. 0081533-68 at Building 295.

1.0 UNDERGROUND STORAGE TANK DECOMMISSIONING ACTIVITIES

1.1 OVERVIEW

One underground storage tank (UST), New Jersey Department of Environmental Protection (NJDEP) Registration No. 0081533-68, was closed at Building 295 at U.S. Army Fort Monmouth, Fort Monmouth, New Jersey on September 13, 1994. Refer to site location map on Figure 1. This report presents the results of the DPW's implementation of the UST Decommissioning/Closure Plan submitted to the NJDEP on July 28, 1993. The plan was approved on September 3, 1993 and assigned TMS No. C-93-3918. The UST was a steel 3,000-gallon tank containing No. 2 diesel oil.

Decommissioning activities for UST No. 0081533-68 complied with all applicable Federal, State and Local laws and ordinances in effect at the date of decommissioning. These laws included but were not limited to: N.J.A.C. 7:14B-1 et seq., N.J.A.C. 5:23-1 et seq., and Occupational Safety and Health Administration (OSHA) 1910.146 & 1910.120. All permits including but not limited to the NJDEP-approved Decommissioning/Closure Plan were posted onsite for inspection. CUTE Inc., the contractor that conducted the decommissioning activities, is registered and certified by the NJDEP for performing UST closure activities. Closure of UST No. 0081533-68 proceeded under the approval of the NJDEP Bureau of Underground Storage Tanks (NJDEP-BUST). The NJDEP-BUST closure approval and signed certifications for UST No. 0081533-68 are included in Appendices A and B, respectively.

Based on an inspection of the UST, and field screening of subsurface soils, the DPW has concluded that an historical discharge was associated with the UST and associated piping. On September 13, 1994, a spill was reported to the NJDEP "Hotline" for UST No. 081533-68 and was assigned Spill Case No. 94-9-13-1503-57.

This UST Closure and Site Investigation Report has been prepared by ATC Associates, Inc., to assist the United States Army Directorate of Public Works (DPW) in complying with the NJDEP Bureau of Underground Storage Tanks (NJDEP-BUST) regulations. The applicable NJDEP-BUST regulations at the date of closure were the *Interim Closure Requirements for Underground Storage Tank Systems* (N.J.A.C. 7:14B-1 et seq. September 1990 and revisions dated November 1, 1991).

This report was prepared using information required at the time of closure. Section 1 of this UST Closure and Site Investigation Report provides a summary of the UST decommissioning activities. Section 2 of this report describes the site investigation activities. Conclusions and recommendations, including the results of the soil sampling investigation, are presented in the final section of this report.

1.2 SITE DESCRIPTION

Building 295 is located in the northern portion of the Main Post area of Fort Monmouth, as shown on Figure 1. UST No. 0081533-68 was located west of Building 295 and appurtenant piping ran approximately 10 feet east from the excavation to Building 295. The fill port area was located directly above the tank. A site map is provided on Figure 2.

1.2.1 Geological/Hydrogeological Setting

The following is a description of the geological/hydrogeological setting of the area surrounding Building 295. Included is a description of the regional geology of the area surrounding Fort Monmouth as well as descriptions of the local geology and hydrogeology of the Main Post area.

Regional Geology

Monmouth County lies within the New Jersey Section of the Atlantic Coastal Plain physiographic province. The Main Post, Charles Wood, and the Evans areas are located in what may be referred to as the Outer Coastal Plain subprovince, or the Outer Lowlands.

In general, New Jersey Coastal Plain formations consist of a seaward-dipping wedge of unconsolidated deposits of clay, silt, and gravel. These formations typically strike northeast-southwest with a dip ranging from 10 to 60 feet per mile and were deposited on Precambrian and lower Paleozoic rocks (Zapecza, 1989). These sediments, predominantly derived from deltaic, shallow marine, and continental shelf environments, date from Cretaceous through the Quaternary Periods. The mineralogy ranges from quartz to glauconite.

The formations record several major transgressive/regressive cycles and contain units which are generally thicker to the southeast and reflect a deeper water environment. Over 20 regional geologic units are present within the sediments of the Coastal Plain. Regressive, upward coarsening deposits are usually aquifers (e.g., Englishtown and Kirkwood Formations, and the Cohansey Sand) while the transgressive deposits act as confining units (e.g., the Merchantville, Marshalltown, and Navesink Formations). The individual thicknesses for these units vary greatly (i.e., from several feet to several hundred feet). The Coastal Plain deposits thicken to the southeast from the Fall Line to greater than 6,500 feet in Cape May County (Brown and Zapecza, 1990).

Local Geology

Based on the regional geologic map (Jablonski, 1968), the Cretaceous age Red Bank and Tinton Sands outcrop at the Main Post area. The Red Bank sand conformably overlies the Navesink Formation and dips to the southeast at 35 feet per mile. The upper member (Shrewsbury) of the Red Bank sand is a yellowish-gray to reddish brown clayey, medium-to-

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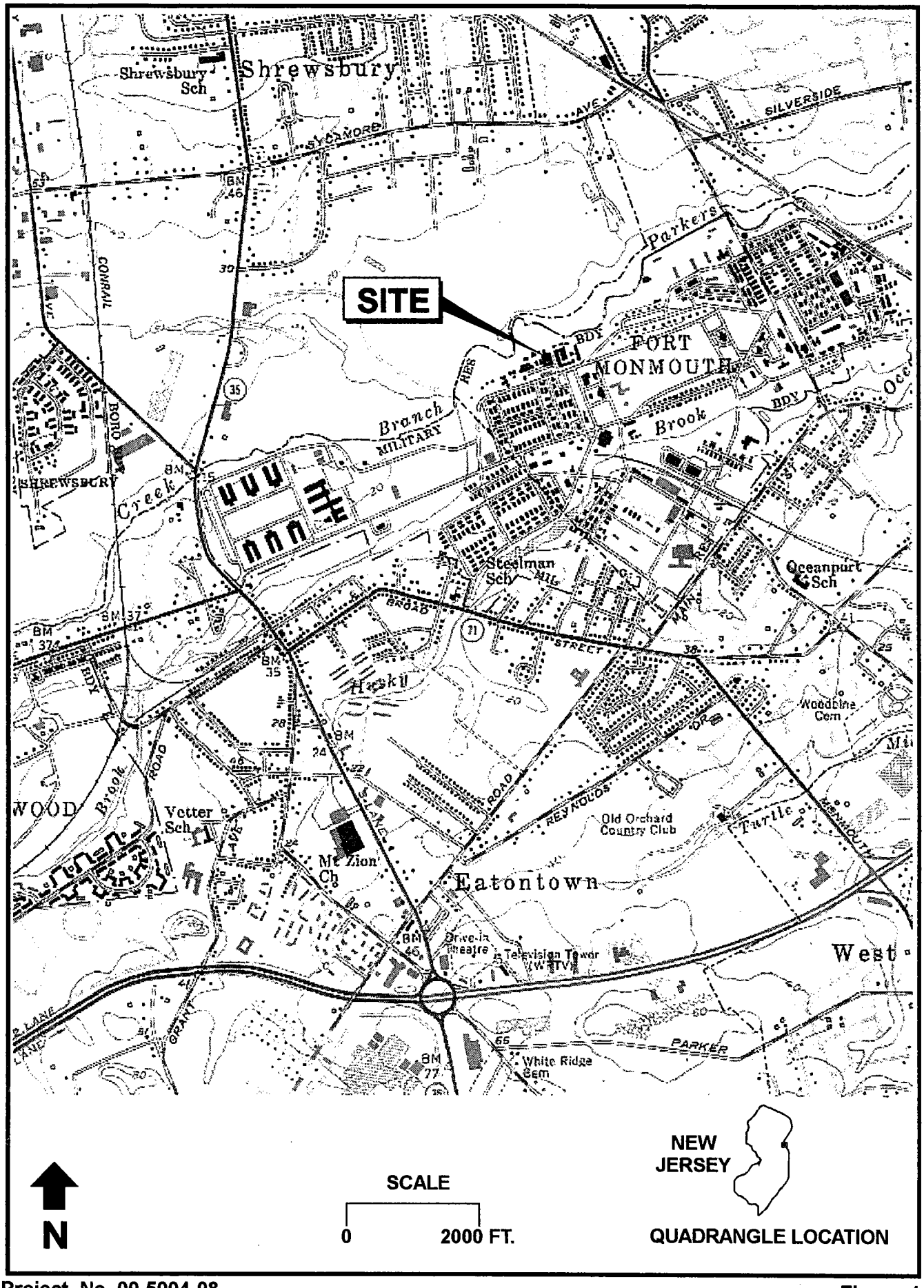
Fort Monmouth, New Jersey



Source: Long Branch, New Jersey Quadrangle

Project No. 00-5004-08

Figure 1
Site Location Map
Building 295

U.S. Army
Department of Public Works
Fort Monmouth, New Jersey

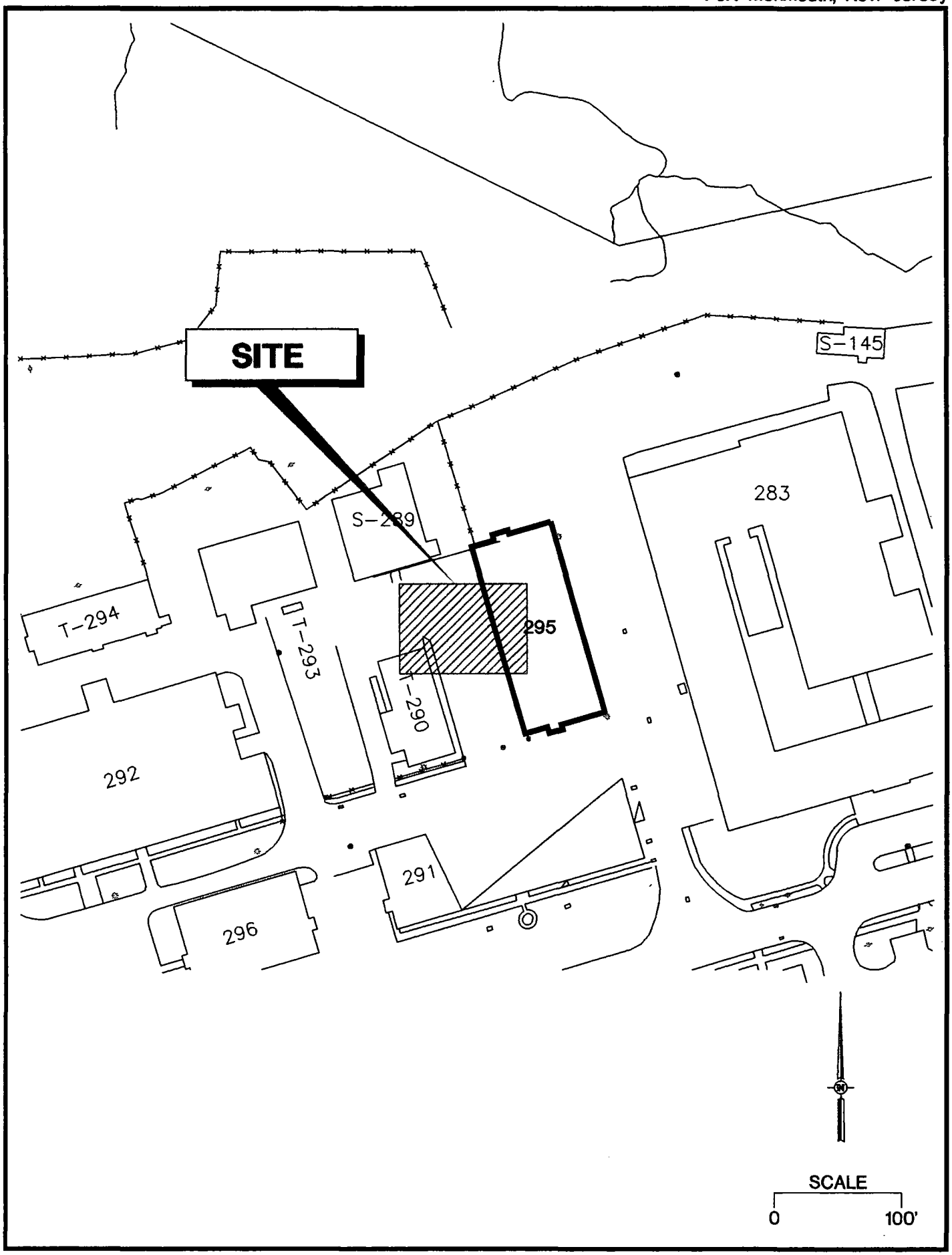


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Figure 2
Building 295
Site Map

coarse-grained sand that contains abundant rock fragments, minor mica and glauconite (Jablonski). The lower member (Sandy Hook) is a dark gray to black, medium-to-fine grained sand with abundant clay, mica, and glauconite.

The Tinton sand conformably overlies the Red Bank Sand and ranges from a clayey medium to very coarse grained feldspathic quartz and glauconite sand to a glauconitic coarse sand. The color varies from dark yellowish orange or light brown to moderate brown and from light olive to grayish olive. Glauconite may constitute 60 to 80 percent of the sand fraction in the upper part of the unit (Minard, 1969). The upper part of the Tinton is often highly oxidized and iron oxide encrusted (Minard).

Hydrogeology

The water table aquifer in the Main Post area is identified as part of the "composite confining units," or minor aquifers. The minor aquifers include the Navesink formation, Red Bank Sand, Tinton Sand, Hornerstown Sand, Vincentown Formation, Manasquan Formation, Shark River Formation, Piney Point Formation, and the basal clay of the Kirkwood Formation.

Based on records of wells drilled in the Main Post area, water is typically encountered at depths of 2 to 9 feet below ground surface (bgs). According to Jablonski, wells drilled in the Red Bank and Tinton Sands may produce 2 to 25 gallons per minute (gpm). Some well owners have reported acidic water that requires treatment to remove iron.

Due to the proximity of the Atlantic Ocean to Fort Monmouth, shallow groundwater may be tidally influenced and may flow toward creeks and brooks as the tide goes out, and away from creeks and brooks as the tide comes in. However, an abundance of clay lenses and sand deposits were noted in borings installed throughout Fort Monmouth. Therefore the direction of shallow groundwater should be determined on a case by case basis.

1.3 HEALTH AND SAFETY

Before, during, and after all decommissioning activities, hazards at the work site which may have posed a threat to the Health and Safety of all personnel who were involve with, or were affected by, the decommissioning of the UST system were minimized. All areas which posed, or may have been suspected to pose a vapor hazard were monitored by a qualified individual utilizing an organic vapor analyzer (OVA). The individual ascertained if the area was properly vented to render the area safe, as defined by OSHA.

1.4 REMOVAL OF UNDERGROUND STORAGE TANK

1.4.1 General Procedures

- All underground obstructions (utilities, etc.) were marked out by the contractor performing the closure prior to excavation activities.
- All activities were carried out with the greatest regard to safety and health and the safeguarding of the environment.
- All excavated soils were visually examined and screened with an OVA for evidence of contamination. Potentially contaminated soils were identified and logged during closure activities.
- Surface materials (i.e., asphalt, concrete, etc.) were excavated and staged separately from all soil and recycled in accordance with all applicable regulations and laws.
- A Sub-Surface Evaluator from the DPW was present during all site assessment activities.

1.4.2 Underground Storage Tank Excavation and Cleaning

Prior to UST decommissioning activities, surficial soil was removed to expose the UST and associated piping. All free product present in the piping was drained into the UST, and the UST was purged to remove vapors prior to cutting and removal of the piping. After removal of the associated piping, a manway was made in the UST to allow for proper cleaning. The UST was completely emptied of all liquids prior to removal from the ground. On September 1, 1994, approximately 1,265 gallons of liquid were transported by Freehold Cartage Inc. to Lionetti Oil Recovery Co. Inc., a NJDEP-approved petroleum recycling and disposal company located in Old Bridge, New Jersey. Refer to Appendix C for the waste manifest (NJA-1907275).

On November 18, 1994, approximately 4,980 gallons of groundwater were pumped from the UST excavation. The liquids were transported by Freehold Cartage Inc. to Dupont-Chambers Works, located in Deepwater, New Jersey. Refer to Appendix C for waste manifest (G-54375).

The UST was cleaned prior to removal from the excavation in accordance with the NJDEP-BUST regulations. After the UST was removed from the excavation, it was staged on polyethylene sheeting and examined for holes. Holes were noted in the UST, and evidence of contamination was observed surrounding the UST.

Soil screening was also performed along the piping associated with the UST. No contamination was noted anywhere along the piping length.

1.5 UNDERGROUND STORAGE TANK TRANSPORTATION AND DISPOSAL

The tank was transported by CUTE Inc. to Mazza and Sons Inc. for disposal in compliance with all applicable regulations and laws. See Appendix D for UST Disposal Certificate.

The removal contractor labeled the UST prior to transport with the following information:

- site of origin
- contact person
- NJDEP UST Facility ID number
- name of transporter/contact person
- destination site/contact person

1.6 MANAGEMENT OF EXCAVATED SOILS

Based on OVA air monitoring and TPHC analysis results from the post-excavation soil samples, no soils exhibited signs of contamination. Therefore, the excavated soils were used as backfill following removal of the UST.

2.0 SITE INVESTIGATION ACTIVITIES

2.1 OVERVIEW

The Site Investigation was managed and carried out by U.S. Army DPW personnel. All analyses were performed and reported by U.S. Army Fort Monmouth Environmental Laboratory, a NJDEP-certified testing laboratory. All sampling was performed under the direct supervision of a NJDEP Certified Sub-Surface Evaluator according to the methods described in the NJDEP *Field Sampling Procedures Manual* (1992). Sampling frequency and parameters analyzed complied with he NJDEP-BUST document *Interim Closure Requirements for Underground Storage Tank Systems* (September 1990 and revisions dated November 1, 1991) which was the applicable regulation at the date of the closure. All records of the Site Investigation activities are maintained by the Fort Monmouth DPW Environmental Office.

The following Parties participated in Closure and Site Investigation Activities.

- Closure Contractor: Cleaning Up The Environment Inc. (CUTE)
  Closure Supervisor: George Bernotskty
  Phone Number: (201)427-2881
  NJDEP Company Certification No.:

- Subsurface Evaluator: Dinkerrai M. Desai
  Employer: U.S. Army, Fort Monmouth
  Phone Number: (908)532-1475
  NJDEP Certification No.: E0002266

- Analytical Laboratory: U.S. Army Fort Monmouth Environmental Laboratory
  Contact Person: Brian K. McKee
  Phone Number: (908)532-4359
  NJDEP Company Certification No.: 13461

- Hazardous Waste Hauler: Freehold Cartage Inc.
  Contact Person: Barry Olsen
  Phone Number: (908)721-0900
  NJDEP Hazardous Waste Hauler No.: 2265

2.2 FIELD SCREENING/MONITORING

Field screening was performed by a NJDEP Certified Sub-Surface Evaluator using an OVA and visual observations to identify potentially contaminated material. Soil excavated from around the tank and appurtenant piping, as well as the UST excavation sidewalls and bottom, did not exhibit any evidence of potential contamination.

2.3 SOIL SAMPLING

On October 6, 1994, post-excavation soil samples A, B, C, and D were collected from a total of four (4) locations along the sidewalls of the excavation, immediately above groundwater. The UST had remained open for approximately three weeks, therefore the soil samples were collected one foot into the sidewalls of the excavation. The soil samples were collected with polystyrene scoops which are not acceptable with the NJDEP. The analyses on the samples collected on October 6, 1994, were canceled and the locations were resampled with decontaminated stainless steel scoops on December 8, 1994.

On December 7, 1994, two post-excavation soil samples (Site B and Site B Dup) were collected The samples were analyzed for volatile organic compounds plus 15 tentatively identified compounds (VOCs).

On December 8, 1994, post-excavation soil samples A, B, C, and D were collected from a total of four (4) locations along the sidewalls of the excavation, immediately above groundwater. The samples were collected at a depth of 4.5 feet bgs. Samples E, and DUP E were collected from one (1) location from the base of the piping portion of the excavation at a depth of 3.5 feet bgs. This former piping area extended approximately 10 feet from the excavation to Building 295. Groundwater was present in the excavation at a depth of approximately 5.0 feet bgs. The UST excavation had remained open for approximately three months, therefore the soil samples were collected one foot into the sidewalls of the excavation.

The site assessment was performed by U.S. Army personnel in accordance with the NJDEP *Technical Requirements* and the NJDEP *Field Sampling Procedures Manual.* A summary of sampling activities including parameters analyzed is provided in Table 1. The post-excavation soil samples were collected using decontaminated stainless steel scoops. Following soil sampling activities, the samples were chilled and delivered to U.S. Army Fort Monmouth Environmental Laboratory located in Fort Monmouth, New Jersey, for analysis.

TABLE 1

SUMMARY OF SAMPLING ACTIVITIES
BUILDING 295, MAIN POST
FORT MONMOUTH, NEW JERSEY

Sample ID	Date of Collection	Matrix	Sample Type	Analytical Parameters (and USEPA Methods) *	Sampling Method
Site B	12/07/94	Soil	Post-Excavation	VOCs	Stainless Steel Scoop
Site B DUP	12/07/94	Soil	Post-Excavation	VOCs	Stainless Steel Scoop
A	12/08/94	Soil	Post-Excavation	TPHC	Stainless Steel Scoop
B	12/08/94	Soil	Post-Excavation	TPHC	Stainless Steel Scoop
C	12/08/94	Soil	Post-Excavation	TPHC	Stainless Steel Scoop
D	12/08/94	Soil	Post-Excavation	TPHC	Stainless Steel Scoop
E	12/08/94	Soil	Post-Excavation	TPHC	Stainless Steel Scoop
Dup E	12/08/94	Soil	Post-Excavation	TPHC	Stainless Steel Scoop

* Note:

TPHC	Total Petroleum Hydrocarbons (Method 418.1 / soil and aqueous)
VOCs	Volatile Organic Compounds plus 15 tentatively identified compound (Method 8240 / soil and aqueous)

3.0 CONCLUSIONS AND RECOMMENDATIONS

3.1 SOIL SAMPLING RESULTS

To evaluate soil conditions following removal of the UST and associated piping, two post-excavation soil samples were collected on December 7, 1994, along the east sidewall of the excavation and were anlayzed for VOCs. On December 8, 1994, samples were collected from a total of five (5) locations on December 8, 1994. All samples were analyzed for TPHC. The post-excavation sampling results were compared to the NJDEP residential direct contact total organic contaminants soil cleanup criteria of 10,000 mg/kg (N.J.A.C. 7:26D and revisions dated February 3, 1994). A summary of the analytical results and comparison to the NJDEP soil cleanup criteria is provided in Table 2 and the soil sampling results are shown on Figure 3. The analytical data package is provided in Appendix E.

All post-excavation soil samples collected from the UST excavation and from below piping associated with the former UST at Building 295 contained TPHC concentrations below the NJDEP residential direct contact total organic contaminants soil cleanup criteria of 10,000 milligrams per kilogram (mg/kg) (N.J.A.C. 7:26D and revisions dated February 3, 1994). Samples A, B, C, D, E, and DUP E, contained levels of TPHC ranging in concentration from 26.0 mg/kg to 144.0 mg/kg.

3.2 CONCLUSIONS AND RECOMMENDATIONS

The analytical results for all post-excavation soil samples collected from the UST closure excavation at Building 295 were below the NJDEP soil cleanup criteria for total organic contaminants.

Based on the post-excavation sampling results, soils with TPHC concentrations exceeding the NJDEP soil cleanup criteria for total organic contaminants of 10,000 mg/kg, do not exist in the former location of the UST or associated piping.

No further action is proposed in regard to the closure and site assessment of UST No. 0081533-68 at Building 295.

TABLE 2

POST-EXCAVATION SOIL SAMPLING RESULTS
BUILDING 295, MAIN POST, SITE B
FORT MONMOUTH, NEW JERSEY
VOLATILE ORGANICS

Sample ID/Depth	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (mg/kg)	Compound of Concern	Result (mg/kg)	NJDEP Soil Cleanup Criteria * (mg/kg)	Exceeds Cleanup Criteria
Site B	12-07-94	12-13-94	Acrolein	0.14	--	ND	--	--
			Acrylonitrile	0.14	--	ND	1/1	--
			Benzene	0.014	--	ND	3/1	--
			Bromoform	0.014	--	ND	86/1	--
			Carbon Tetrachloride	0.014	--	ND	2/1	--
			Chlorobenzene	0.014	--	ND	37/1	--
			Chlorodibromomethane	0.014	--	ND	110/1	--
			Chloroethane	0.027	--	ND	--	--
			2-Chloroethyl vinyl ether	0.014	--	ND	--	--
			Chloroform	0.014	--	ND	19/1	--
			Dichlorobromomethane	0.014	--	ND	110/1	--
			1,1-Dichloroethane	0.014	--	ND	8/10	--
			1,2-Dichloroethane	0.014	--	ND	6/1	--
			1,1-Dichloroethylene	0.014	--	ND	570/10	--
			1,2-Dichloropropane	0.014	--	ND	10/--	--
			cis-1,3-Dichloropropene	0.014	--	ND	4/1	--
			trans-1,3-Dichloropropene	0.014	--	ND	4/1	--
			Ethylbenzene	0.014	--	ND	1,000/100	--
			Methyl bromide	0.027	--	ND	--	--
			Methyl chloride	0.014	--	ND	--	--
			Methylene Chloride	0.014	--	ND	49/1	--
			1,1,2,2-Tetrachloroethane	0.014	--	ND	34/1	--
			Tetrachloroethylene	0.014	--	ND	4/1	--
			Toluene	0.014	--	ND	1,000/500	--
			trans,1,2-Dichloroethylene	0.014	--	ND	--	--
			1,1,1-Trichloroethane	0.014	--	ND	210/50	--

TABLE 2

POST-EXCAVATION SOIL SAMPLING RESULTS
BUILDING 295, MAIN POST, SITE B
FORT MONMOUTH, NEW JERSEY
VOLATILE ORGANICS (Continued)

Sample ID/Depth	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (mg/kg)	Compound of Concern	Result (mg/kg)	NJDEP Soil Cleanup Criteria * (mg/kg)	Exceeds Cleanup Criteria
Site B	12-07-94	12-13-94	1,1,2-Trichloroethane	0.014	--	ND	22/1	--
			Trichloroethylene	0.014	--	ND	23/1	--
			Trichlorofluoromethane	0.012	--	0.012 J	--	--
			Vinyl Chloride	0.027	--	ND	2/10	--

Note:
* Residential Direct Compound / Impact to Groundwater
-- Not applicable / does not exceed criteria
(J) Indicates detected below sample quantitation limit
(ND) Indicates compound not detected

TABLE 2

POST-EXCAVATION SOIL SAMPLING RESULTS
BUILDING 295, MAIN POST, SITE B DUP
FORT MONMOUTH, NEW JERSEY
VOLATILE ORGANICS

Sample ID/Depth	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (mg/kg)	Compound of Concern	Result (mg/kg)	NJDEP Soil Cleanup Criteria * (mg/kg)	Exceeds Cleanup Criteria
Site B DUP	12-07-94	12-13-94	Acrolein	0.13	--	ND	--	--
			Acrylonitrile	0.13	--	ND	1/1	--
			Benzene	0.013	--	ND	3/1	--
			Bromoform	0.013	--	ND	86/1	--
			Carbon Tetrachloride	0.013	--	ND	2/1	--
			Chlorobenzene	0.013	--	ND	37/1	--
			Chlorodibromomethane	0.013	--	ND	110/1	--
			Chloroethane	0.027	--	ND	--	--
			2-Chloroethyl vinyl ether	0.013	--	ND	--	--
			Chloroform	0.013	--	ND	19/1	--
			Dichlorobromomethane	0.013	--	ND	110/1	--
			1,1-Dichloroethane	0.013	--	ND	8/10	--
			1,2-Dichloroethane	0.013	--	ND	6/1	--
			1,1-Dichloroethylene	0.013	--	ND	570/10	--
			1,2-Dichloropropane	0.013	--	ND	10/--	--
			cis-1,3-Dichloropropene	0.013	--	ND	4/1	--
			trans-1,3-Dichloropropene	0.013	--	ND	4/1	--
			Ethylbenzene	0.013	--	ND	1,000/100	--
			Methyl bromide	0.027	--	ND	--	--
			Methyl chloride	0.013	--	ND	--	--
			Methylene Chloride	0.013	--	ND	49/1	--
			1,1,2,2-Tetrachloroethane	0.013	--	ND	34/1	--
			Tetrachloroethylene	0.013	--	ND	4/1	--
			Toluene	0.013	--	ND	1,000/500	--
			trans,1,2-Dichloroethylene	0.013	--	ND	--	--
			1,1,1-Trichloroethane	0.013	--	ND	210/50	--

TABLE 2

POST-EXCAVATION SOIL SAMPLING RESULTS
BUILDING 295, MAIN POST, SITE B DUP
FORT MONMOUTH, NEW JERSEY
VOLATILE ORGANICS (Continued)

Sample ID/Depth	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (mg/kg)	Compound of Concern	Result (mg/kg)	NJDEP Soil Cleanup Criteria * (mg/kg)	Exceeds Cleanup Criteria
Site B DUP	12-07-94	12-13-94	1,1,2-Trichloroethane	0.013	--	ND	22/1	--
			Trichloroethylene	0.013	--	ND	23/1	--
			Trichlorofluoromethane	0.013	--	ND	--	--
			Vinyl Chloride	0.027	--	ND	2/10	--

Note:
* Residential Direct Compound / Impact to Groundwater
-- Not applicable / does not exceed criteria
(ND) Indicates compound not detected

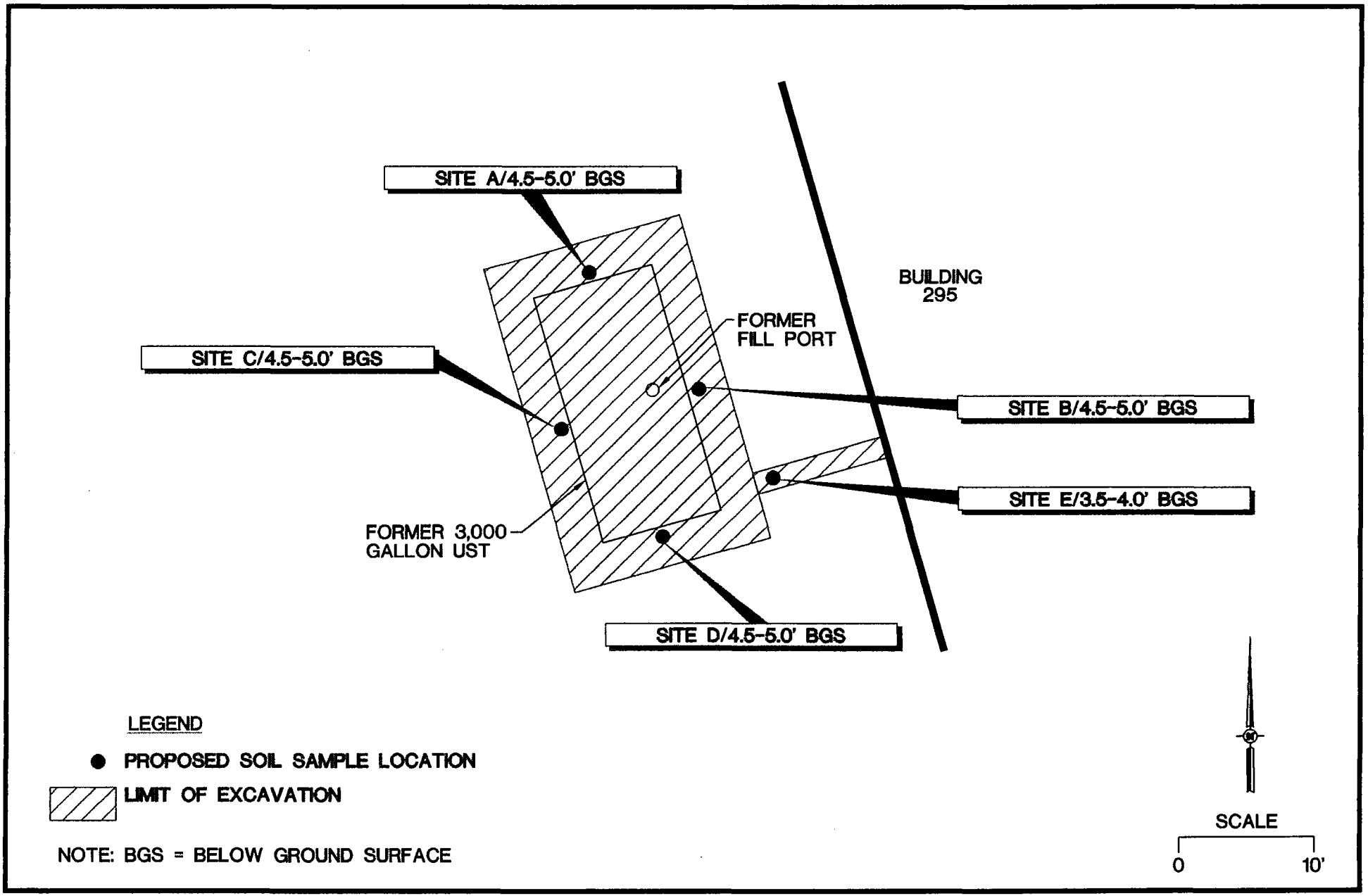
TABLE 2

POST-EXCAVATION SOIL SAMPLING RESULTS
BUILDING 295
FT. MONMOUTH, NEW JERSEY

Sample ID/Depth	Sample Laboratory ID	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (mg/kg)	Compound of Concern	Result (mg/kg)	NJDEP Soil Cleanup Criteria * (mg/kg)	Exceeds Cleanup Criteria
A/4.5-5.0'	1760.1	12/08/94	12/14/94	Total Solid	--	--	77 %	--	--
				TPHC	7.8	yes	83.2	10,000	--
B/4.5-5.0'	1760.2	12/08/94	12/14/94	Total Solid	--	--	81 %	--	--
				TPHC	8.4	yes	26.0	10,000	--
C/4.5-5.0'	1760.3	12/08/94	12/14/94	Total Solid	--	--	69 %	--	--
				TPHC	7.9	yes	28.8	10,000	--
D/4.5-5.0'	1760.4	12/08/94	12/14/94	Total Solid	--	--	88 %	--	--
				TPHC	7.1	yes	144.0	10,000	--
E/3.5-4.0'	1760.5	12/08/94	12/14/94	Total Solid	--	--	80 %	--	--
				TPHC	7.6	yes	79.8	10,000	--
Dup E/3.5-4.0'	1760.6	12/08/94	12/14/94	Total Solid	--	--	80 %	--	--
				TPHC	8.3	yes	58.4	10,000	--

Notes:
* Cleanup criteria for total organics
-- Not applicable / does not exceed criteria
TPHC Total Petroleum Hydrocarbons

U.S. Army
Department of Public Works
Fort Monmouth, New Jersey



Project No. 09-5004-08

Figure 3
Building 295
Proposed Sampling Plan

APPENDIX A

NJDEP BUST CLOSURE APPROVAL

UNDERGROUND STORAGE TANK SYSTEM
CLOSURE APPROVAL

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ENERGY

DIVISION OF RESPONSIBLE PARTY SITE REMEDIATION
BUREAU OF UNDERGROUND STORAGE TANKS
CN-029, TRENTON, NJ 08625-0029

TMS #	UST #
C-93-3918	0081533

US Army
BLDG. 295
Ft. Monmouth, NJ

Monmouth

THE ABOVE LISTED FACILITY IS HEREBY GRANTED APPROVAL TO PERFORM THE FOLLOWING ACTIVITY IN ACCORDANCE WITH N.J.A.C. 7:14B-1 et. seq.:

Removal of: one 3,000 gallon #2 diesel UST(s) and appurtenant piping.
SITE ASSESSMENT: Soil samples will be taken every five (5) feet along the center line of each tank and one (1) soil sample for every 15 feet along all associated piping. Two (2) additional samples will be taken from around the tank and biased to the areas of highest field screened readings. Samples will be analyzed for TPHC. If sample results are greater than 1,000ppm than 25% of the samples will be analyzed for VO+10.

ON-SITE MANAGER: C. Appleby TELEPHONE: 908-532-1475

OWNER: TELEPHONE:

EFFECTIVE DATE: SEP 07 1993

THIS FORM MUST BE DISPLAYED AT THE SITE DURING THE APPROVED ACTIVITY AND MUST BE MADE AVAILABLE FOR INSPECTION AT ALL TIMES.

KEVIN F. KRATINA, BUREAU CHIEF
BUREAU OF UNDERGROUND STORAGE TANKS

APPENDIX B

CERTIFICATIONS

UNDERGROUND STORAGE TANK (UST) CLOSURE CERTIFICATION

BUILDING NO. 295

NJDEP UST REGISTRATION NO. 81533-68

DATE TANK REMOVED 9/15/94

IJO / CONTRACT NUMBER 91-0148

I CERTIFY UNDER PENALTY OF LAW THAT TANK DECOMMISSIONING ACTIVITIES WERE PERFORMED IN COMPLIANCE WITH NJAC 7:14B-9.2(b)3. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE, INACCURATE, OR INCOMPLETE INFORMATION, INCLUDING FINES AND/OR IMPRISONMENT.

NAME (Print or Type) John Lonergan

SIGNATURE

NJDEP UST CLOSURE CERTIFICATE NO. 0003248

COMPANY PERFORMING TANK DECOMMISSIONING CUTE Inc.

NJDEP UST CLOSURE CORPORATE CERTIFICATE NO. 0200128

DATE OF SUBMITTAL 10/3/94

APPENDIX C

WASTE MANIFEST

State of New Jersey
Department of Environmental Protection and Energy
Hazardous Waste Regulation Program
Manifest Section
CN 421, Trenton, NJ 08625-0421

Please type or print in block letters. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30-94

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. N J 7 2 1 0 0 2 0 5 1 6 — Manifest Document No. 10 0 2 7 5
2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: US Army Communications Electronics Command
Main Post, c/o James Shirghio, Bldg 2504
ATTN: SELFM-DL-EM-MS, Fort Monmouth, NJ 07703
4. Generator's Phone (908) 532-6224

A. State Manifest Document Number: NJA 1907275
B. State Generator's ID (Gen. Site Address): Main Post Ft Monmouth

5. Transporter 1 Company Name: Freehold Cartage, Inc.
6. US EPA ID Number: N J D 0 5 4 1 2 6 1 1 6 4
C. State Trans. ID-NJDEPE: S 2265
Decal No.: 55464
D. Transporter's Phone (908) 462-1001

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Trans. ID-NJDEPE
Decal No.
F. Transporter's Phone ( )

9. Designated Facility Name and Site Address: Lionetti Oil Recovery Co., Inc.
Runyon & Cheesequake Rds.
Old Bridge, NJ 08857
10. US EPA ID Number: N J D 0 0 2 4 5 4 5 4 4
G. State Facility's ID
H. Facility's Phone (908) 721-0900

HM	11. US DOT Description (Including Proper Shipping Name, Hazard Class or Division, ID Number and Packing Group)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. X	Petroleum Oil XXXX.N.O.S. Class 3 (Petroleum Oil) Combustible Liquid UN 1270, PG III	001	TT	00052	G	X722
b. X	Petroleum Oil N.O.S. Class 3 (Petroleum Oil) Combustible Liquid UN 1270 PG III	001	TT	00020	G	X722
c. X	Petroleum Oil N.O.S. Class 3 (Petroleum Oil) Combustible Liquid UN 1270 PG III	001	TT	00885	G	X722
d. X	Petroleum Oil N.O.S. Class 3 (Petroleum Oil) Combustible Liquid UN 1270 PG III	001	TT	01265	G	X722

J. Additional Descriptions for Materials Listed Above

a. Petroleum Oil 70 % ; T.L Water 30 % — Petroleum Oil 70 % ; T.L Water 30 %
b. Petroleum Oil 70 % ; T.L Water 30 % — Petroleum Oil 70 % ; T.L Water 30 %

K. Handling Codes for Wastes Listed Above

T04-Filtration T04-Filtration
T04-Filtration T04-Filtration

15. Special Handling Instructions and Additional Information
NOT REGULATED BY EPA. REGULATED AS HAZARDOUS WASTE IN NJ
24 HOUR EMERGENCY RESPONSE PHONE: 201-427-2881
NJ DECAL# 55464

a) 0081533-67 b) 0081533-64 c) 0081533-63 d) 0081533-68

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: [illegible signature name] | Signature: [signature] | Month Day Year: 09 01 94

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Bill Burr | Signature: Bill Burr | Month Day Year: 09 01 94

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: UPPAL JAGAN | Signature: U S Jagad | Month Day Year: 09 02 94

GENERATOR / TRANSPORTER / FACILITY

In case of an emergency or spill immediately call the ... emergency ...

EPA Form 8700-22 (Rev. 9/88) Previous editions are obsolete.

SIGNATURE AND INFORMATION *MUST* BE LEGIBLE ON ALL COPIES

FREEHOLD CARTAGE, INC.

P.O. BOX 5010
FREEHOLD, NJ 07728-5010
PHONE: (908) 462-1001
FAX: (908) 308-0024

1175 BARTOW MUN. AIRPORT
BARTOW, FL 33830
PHONE: (813) 533-4599
FAX: (813) 533-1613

108 MONAHAN AVENUE
DUNMORE, PA 18512
PHONE: (717) 842-7292
FAX: (717) 342-7307

MANIFEST

FCI EPA ID NO.:
NJD054126164

G54375

STATE MANIFEST NO.:

(X) HM		PROPER U.S. DOT SHIPPING NAME	U.S. DOT HAZARDOUS CLASS	PACKING GROUP	NA/UN NO.	FORM	NET QTY.	UNIT MEASURE
	1	GROUNDWATER	NA	NA	NA	L	4980	G.
	2							
	3							

SPECIAL HANDLING INSTRUCTIONS INCLUDING CONTAINER EXEMPTION (I.E., IDENTIFICATION SHIPMENT OF A NON-HAZARDOUS NATURE WHICH DOES NOT HAVE TO BE MANIFESTED).

OW-1005 REL-030 15939-27386

GENERATOR NAME/ADDRESS
CUTE (OFFSET MONMOUTH
WEST LONG BRANCH, NJ

PHONE (AREA CODE) –

GENERATOR EPA ID NO.

TRACTOR: 64 TRAILER: 315

TIME AT GENERATOR (MILITARY TIME ONLY)
ARRIVAL TIME: 07:45 DEPARTURE TIME: 10:15

FCI REP. LOADING (PRINT)	PROCEDURE	BOX SPOTTED	BOX REMOVED
ALONSO TROCINO	VAC	*	*

EQUIPMENT USED: 1-VACUUM TRUCK 120'-HOSE

COMMENTS OR DELAYS AT GENERATOR
DRIVER # 3787

GENERATOR'S CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation, U.S. EPA and the State. The wastes described above were consigned to the Transporter named. The Treatment, Storage or Disposal Facility can and will accept the shipment of hazardous waste, and has a valid permit to do so. I certify that the foregoing is true and correct to the best of my knowledge.

Payment to the contractor for waste removal does not constitute payment to the carrier and if the contractor does not pay the carrier, the generator is obligated to pay the agreed rate offered to the contractor.

GENERATOR'S SIGNATURE
X Ralph C DeMartino
I HAVE READ THE ABOVE AND UNDERSTAND AND AGREE TO ALL OF ITS CONTENT.

PLEASE PRINT NAME/TITLE: Ralph C DeMartino Env. Prot. Spec

DATE LOADED: MO. 11 DAY 18 YR. 94

TSDF NAME/ADDRESS
DUPONT-CHAMBERS WORKS
RT. 130
DEEPWATER, N.J.

PHONE (AREA CODE) –

TSDF EPA ID NO.

TRACTOR: 64 TRAILER: 315

TIME AT TSDF (MILITARY TIME ONLY)
ARRIVAL TIME: 13:15 DEPARTURE TIME: 14:25

FCI REP. UNLOADING (PRINT)	PROCEDURE	BOX SPOTTED	BOX REMOVED
ALONSO TROCINO	GRAVITY	*	*

EQUIPMENT USED

COMMENTS OR DELAYS AT TSDF

TSDF SIGNATURE
X

PLEASE PRINT NAME/TITLE: P.J. Dominger

DATE UNLOADED: MO. 11 DAY 18 YR. 94

AR H-0087 FC 944	ME ME-HWT-47 ME-WOT-47	NO H-1490 ND WH-429	NOVA SCOTIA, CANADA NSE 000 147	QUEBEC, CANADA QC-6ML-047
CT CT-HW-507	MD HWH-167 91-OP-1763	NH TNH-0047	OH 333-HW	RI RI-633
DE DE-HW-209 DE-SW-203	MA MA-294	NJ 0-2265 16939	OK 3358	TX 40705
IL SWH-1540	MN 61572	NY JA-113	ONTARIO, CANADA A 640943	WI 11602
			PA PA-AH-0067	

Original - FCI Office Copy
Yellow - FCI Office Copy
Blue - FCI Office Copy/Customer
Green - Retained by TSDF
Gold - Retained by Generator

G54375

DEC-22-94 THU 15:00 CUTE INC. FAX NO. 1908 636 7816 P. 02/06

DEC-22-94 THU 12:38 C.U.T.E. FAX NO. 201 423 8050 P. 02

STAVOLA ASPHALT CO.-TIN. FALLS

Stavola Asphalt Co., Inc.

ASPHALT PLANTS

CONTROL NO. B374342

Old Bergen Mill Rd.
Millstone, NJ
(908) 446-7700

Hamilton Rd.
Tinton Falls, NJ
(908) 542-2328

Yellowbrook Rd.
Farmingdale, NJ
(908) 938-2801

Ashphalt From 295

THESE AREAS MUST BE SIGNED PRIOR TO UNLOADING OF MATERIAL

NOTE ATTENTION DRIVER:
CUSTOMER MUST SIGN BELOW
AND RETURN YELLOW COPY TO SCALE

X Don Ellis
DRIVER'S SIGNATURE

RECEIVED & ACCEPTED BY:
X
CUSTOMER'S SIGNATURE

EXECUTIVE OFFICE
HAMILTON ROAD
TINTON FALLS, NJ
908 / 542-2328

• ASPHALT
CRUSHED STONE • SAND
• GRAVEL

ADDRESS REPLY TO
P.O. BOX 482
RED BANK, N.J. 07701

THIS COMPANY WILL NOT BE RESPONSIBLE FOR DAMAGE CAUSED BY VEHICLES DELIVERING MATERIALS OFF PUBLIC ROADS.

EXPLANATION OF DELIVERY CODES
1 - F.O.B.
2 - DELIVERED
3 - NET DELIVERED

DATE	CUST. NO.	JOB NO.	TICKET NO.
09/12/94	08888	14:39	374342

CUSTOMER: CLEAN UP ENIVERMENT

DELIVER TO ZONE:

GROSS 3.00 TN 58340
TARE 2.00 27420
NET 1.00 30920

TRUCKER	TRUCK NO.	DRIVER NO.	METHOD OF PAYMENT	DELIVERY CODE	ZONE
08888	0		CHARGE	1	5.46

QUANTITY	PRODUCT CODE/DESCRIPTION	UNIT OF MEASURE	UNIT PRICE	EXTENDED	FREIGHT	SALES TAX	TOTAL
1.00	48 RAP INCOMING	LD.					

WAITING TIME OVER 20 MINUTES MUST BE SIGNED BELOW BY CUSTOMER

H/T WAIT TIME 0.00

TIME ON JOB | TIME OFF JOB

X
(SIGNATURE)

LOADS 3 ACCU. TONS 3.00

GRAND TOTAL

CALCULATION SHEET

Building No. 295 NJDEPE Reg. No. 0081533 - 68

Tank Size 3000 gal Tank Void 22.5 tons

CLEAN FILL

ITEM NO.	DESCRIPTION	QUANTITY	TICKET #
	Fill	19.88	18851
		20.45	18852
		20.50	18853
		20.75	18854
		20.45	18855

TOTAL 102.03

STONE

ITEM NO.	DESCRIPTION	QUANTITY	TICKET #
	Stone	22.31	101351
		21.31	101338
		22.68	101325
		21.76	101316

TOTAL 88.06

ID#27 soil to stockpile (102.03 + 88.06) - 22.5 = 167.59 tons

Chargeable clean fill 102.03 - 22.5 = 79.53

Chargeable stone 88.06

Bldg 295

Joseph Serrano Sand & Gravel Co.
1453 W. Park Ave., Wayside
Asbury Park, N.J. 07712
908-493-9333

296

18851

Order Date ___/___/___

Name Bg A Trucking

Deliver Date Dec. 5, 94

Address Clan Fill

Delivered ☐ C.O.D. ☐

F.O.B./P.U. ☐ Charge ☑

Item(s)	Quantity / Measure (tons, lbs., yds., ea.)	Unit Price	Total
	G 68250		
	T 28500		
	fx 39750	19.88 tons	
		Sub Total	
		Delivery	
		N.J. Tax	
		Total	

Driver

Received Dan Ellis

* Company not responsible for damage done off public roads. Color not guaranteed!

Have gravel will travel!
since 1925

Bldg 295

Joseph Semrano Sand & Gravel Co.

1453 W. Park Ave., Wayside
Asbury Park, N.J. 07712
908-493-3333

296

18852

Order Date ___/___/___

Name Big A Trucking

Deliver Date Dec 15 19

Address clay Fill

Delivered ☐ C.O.D. ☐

F.O.B./P.U. ☐ Charge ☑

Item(s)	Quantity / Measure (tons, lbs., yds., ea.)	Unit Price	Total
	G 69400		
	T 28500		
	N 40900	20.45 tons	
		Sub Total	
		Delivery	
		N.J. Tax	
		Total	

Driver

Received Dan Ellis

* Company not responsible for damage done off public roads. Color not guaranteed

Have gravel will travel!
since 1925

Joseph Scrano Sand & Gravel Co.

1453 W. Park Ave., Wayside
Asbury Park, N.J. 07712
908-493-3333

Bldg 295
296

18853

Order Date ___/___/___

Name Bay A Trucking

Deliver Date Dec 15, 94

Address

Clean Fill

Delivered ☐ C.O.D. ☐

F.O.B./P.U. ☐ Charge ☑

Item(s)	Quantity / Measure (tons, lbs., yds., ea.)	Unit Price	Total
	G 69500		
	T 28500		
	N 41000	20.50 tons	
		Sub Total	
		Delivery	
		N.J. Tax	
		Total	

Driver

Received Don Ellis

* Company not responsible for damage done off public roads. Color not guaranteed!

Have gravel will travel!
since 1925

Bldg 295

Joseph Guarana Sand & Gravel Co.
1453 W. Park Ave., Wayside
Asbury Park, N.J. 07712
908-493-3333

296

18854

Order Date ___/___/___

Name Bay A Trucking

Deliver Date Dec 15 94

Address Clean Fill

Delivered ☐ C.O.D. ☐

F.O.B./P.U. ☐ Charge ☑

Item(s)	Quantity / Measure (tons, lbs., yds., ea.)	Unit Price	Total
	G 25500		
	T 20000		
	N 41500	20.75 tons	
		Sub Total	
		Delivery	
		N.J. Tax	
		Total	

Driver

Received Don Ellis

* Company not responsible for damage done off public roads. Color not guaranteed!

Have gravel will travel!
since 1925

Bldg 295

Joseph Bosreno Sand & Gravel Co.
1483 W. Park Ave., Wayside
Asbury Park, N.J. 07712
908-493-3333

296

18855

Order Date ___/___/___

Name BIG TRUCK CO

Deliver Date Dec, 5, 94

Address Class Fill

Delivered ☐ C.O.D. ☐

F.O.B./P.U. ☐ Charge ☑

Item(s)	Quantity / Measure (tons, lbs., yds., ea.)	Unit Price	Total
	G 28500		
	T 69400		
	K 40900	20.45 tons	
		Sub Total	
		Delivery	
		N.J. Tax	
		Total	

Driver ___

Received Dan Ellis

* Company not responsible for damage done off public roads. Color not guaranteed

Have gravel will travel!
since 1925

S.C.M.I. - BOUND BROOK

CUSTOMER'S COPY

CONTROL NO. A-1013571

Stavola Construction Materials, Inc.

PLANT: CHIMNEY ROCK ROAD, BOUND BROOK, N.J. • 908/356-5700

Bldg 295

X Dan Eller
DRIVER'S SIGNATURE

RECEIVED & ACCEPTED BY:
X
CUSTOMER'S SIGNATURE

EXECUTIVE OFFICE
HAMILTON ROAD
TINTON FALLS, N.J.
908/542-2328

CRUSHED STONE • SAND • GRAVEL

ADDRESS REPLY TO
P.O. BOX 452
RED BANK, N.J. 07701

THIS COMPANY WILL NOT BE RESPONSIBLE FOR DAMAGE CAUSED BY VEHICLES DELIVERING MATERIALS OFF PUBLIC ROADS.

EXPLANATION OF DELIVERY CODES
1 - F.O.B.
2 - DELIVERED
3 - NET DELIVERED

DATE	CUST. NO.		JOB NO.		TICKET NO.	
12/20/94	08888			09:59	013571	

CUSTOMER	DELIVER TO	GROSS	TARE	NET
CLEANING UP THE ENVIORNMENT 103 GODWIN AVE. P.O. BOX 237 MIDLAND PARK NJ 07432	ZONE: FORT MONMOUTH	36.02	13.71	22.31

TRK	TRUCK NO.	DRIVER NO.	METHOD OF PAYMENT	DELIVERY CODE	ZONE
			CHARGE	1	

QTY	PRODUCT CODE/DESCRIPTION	UNIT OF MEASURE	UNIT PRICE	EXTENDED	FREIGHT	SALES TAX	TOTAL
22.31	11 1 1/2" CLEAN STO	T			0.00		

INTS			
	LOADS 1	ACCU. TONS 22.31	WAIT TIME
			GRAND TOTAL

B.C.M.I. - BOUND BROOK

CUSTOMER'S COPY

CONTROL NO. A-1013358

Stavola Construction Materials, Inc.

PLANT: CHIMNEY ROCK ROAD, BOUND BROOK, N.J. • 908/356-5700

Bldg 295

X _____ DRIVER'S SIGNATURE

RECEIVED & ACCEPTED BY:
X _____ CUSTOMER'S SIGNATURE

CRUSHED STONE • SAND • GRAVEL

EXECUTIVE OFFICE
HAMILTON ROAD
TINTON FALLS, N.J.
A 908/542-2328

ADDRESS REPLY TO
P.O. BOX 482
RED BANK, N.J. 07701

THIS COMPANY WILL NOT BE RESPONSIBLE FOR DAMAGE CAUSED BY VEHICLES DELIVERING MATERIALS OFF PUBLIC ROADS.

EXPLANATION OF DELIVERY CODES
1 - F.O.B.
2 - DELIVERED
3 - NET DELIVERED

DATE	CUST. NO.	JOB NO.		TICKET NO.
12/19/94	08688		13:39.	013358

CUSTOMER
CLEANING UP THE ENVIORNMENT
103 GODWIN AVE.
P.O. BOX 237
MIDLAND PARK NJ 07432

DELIVER TO ZONE:
FORT MONMOUTH

GROSS	35.08
TARE	13.71
NET	21.31

TICKET	TRUCK NO.	DRIVER NO.	METHOD OF PAYMENT	DELIVERY CODE	ZONE
			CHARGE	1	

QUANTITY	PRODUCT CODE/DESCRIPTION	UNIT OF MEASURE	UNIT PRICE	EXTENDED	FREIGHT	SALES TAX	TOTAL
21.31	11.1 1/2" CLEAN STO				0.00		

COMMENTS

LOADS 1 TONS 21.31

WAIT TIME

GRAND TOTAL

S.C.M.I. - BOUND BROOK

CUSTOMER'S COPY

CONTROL NO. A-1013254

Stavola Construction Materials, Inc.

PLANT: CHIMNEY ROCK ROAD, BOUND BROOK, N.J. - 908/356-5700

X _____
DRIVER'S SIGNATURE

RECEIVED & ACCEPTED BY:
X _____
CUSTOMER'S SIGNATURE

CRUSHED STONE • SAND • GRAVEL

EXECUTIVE OFFICE
HAMILTON ROAD
TINTON FALLS, N.J.
908/542-2328

ADDRESS REPLY TO
P.O. BOX 482
RED BANK, N.J. 07701

THIS COMPANY WILL NOT BE RESPONSIBLE FOR DAMAGE CAUSED BY VEHICLES DELIVERING MATERIALS OFF PUBLIC ROADS.

EXPLANATION OF DELIVERY CODES
1 - F.O.B.
2 - DELIVERED
3 - NET DELIVERED

DATE	CUST. NO.	JOB NO.	TICKET NO.
12/19/94	05098	11:11	013254

STONER
CLEANING UP THE ENVIORNMENT
103 GODWIN AVE.
P.O. BOX 237
MIDLAND PARK NJ 07432

DELIVER TO ZONE
FORT MONMOUTH
P/U BY TRK

GROSS 36.39
TARE 13.71
NET 22.68

LOCKER	TRUCK NO.	DRIVER NO.	METHOD OF PAYMENT
			CHARGE

DELIVERY CODE: 1 ZONE:

QUANTITY	PRODUCT CODE/DESCRIPTION	UNIT OF MEASURE	UNIT PRICE	EXTENDED
22.68	11 1 1/2" CLEAN STO	T		
MINUTES			ACCU. TONS	44.44

FREIGHT	SALES TAX	TOTAL
0.00		
WAIT TIME		
GRAND TOTAL		

B.C.M.I. - BOUND BROOK

CUSTOMER'S COPY

CONTROL NO. A-1013164

Stavola Construction Materials, Inc.

PLANT: CHIMNEY ROCK ROAD, BOUND BROOK, N.J. • 908/356-5700

Bldg 295

X Don Ellis
DRIVER'S SIGNATURE

REQUESTED & ACCEPTED BY:
X
CUSTOMER'S SIGNATURE

CRUSHED STONE • SAND • GRAVEL

EXECUTIVE OFFICE
HAMILTON ROAD
TINTON FALLS, N.J.
908/542-2328

ADDRESS REPLY TO
P.O. BOX 488
RED BANK, N.J. 07701

THIS COMPANY WILL NOT BE RESPONSIBLE FOR DAMAGE CAUSED BY VEHICLES DELIVERING MATERIALS OFF PUBLIC ROADS.

EXPLANATION OF DELIVERY CODES
1 - F.O.B.
2 - DELIVERED
3 - NET DELIVERED

	CUST. NO.		JOB NO.		TICKET NO.	
12/19/94		08888		08:35		013164

SOLD TO			DELIVER TO		GROSS		
CLEANING UP THE ENVIORNMENT 103 GODWIN AVE. P.O. BOX 237 MIDLAND PARK NJ 07432			ZONE: N.J. MONMOUTH		35.46		
					TARE		
					13.70		
					NET		
					21.76		
AREA	TRUCK NO.	DRIVER NO.	METHOD OF PAYMENT		DELIVERY CODE	ZONE	
			CHARGE		1	030	

QUANTITY	PRODUCT CODE/DESCRIPTION	UNIT PRICE	EXTENDED	FREIGHT	SALES TAX	TOTAL
21.76	11 1 1/2" CLEAN STD	1		4.35		
				WAIT TIME		
				GRAND TOTAL		

REMARKS: ACCT. TONS 21.76

APPENDIX D

UST DISPOSAL CERTIFICATE

Jack Perrucci
Ft Monmouth
Eatontown, NJ

MAZZA & SONS, INC.
Metal Recyclers
Auto and Truck
3230 Shafto Rd,
Tinton Falls, NJ
(908) 922-9292

NO. _____

DATE Oct 7

Customer's Name Cute Inc

Address 103 Godwin Ave P.O. Box 037, Midland Pk, NJ 07432

Make of Autos

Tires Tank Price:

	Weight	Price
Cast Iron		
Steel		
Lt. Iron		
Copper #1		
Copper #2		
Lt. Copper		
Brass		
Alum Clean		
Lead		
Stainless		
Radiators		
Battery		
TOTAL AMOUNT:		

Weigher _____ Customer _____

APPENDIX E

SOIL ANALYTICAL DATA PACKAGE

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEPE Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 167
Ft. Monmouth, NJ 07703

Lab. ID #: 1760.1-.6
Sample Rec'd: 12/08/94
Analysis Start: 12/14/94
Analysis Comp: 12/15/94

Analysis: 418.1 (TPH)
Matrix: Soil
Analyst: S. Hubbard
Ext. Meth: 3540A

NJDEPE UST Reg.#: **81533-68**
Closure #:
DICAR #: **94-9-13-1503-57**
Location #: **Bldg. 295**

Lab ID.	Description		%Solid	Result (mg/Kg)	MDL
1760.1	Site A, N. Sidewall	OVA=ND	77	83.2	7.8
1760.2	Site B, E. Sidewall	OVA=ND	81	26.0	8.4
1760.3	Site C, W. Sidewall	OVA=ND	69	28.8	7.9
1760.4	Site D, S. Sidewall	OVA=ND	88	144.	7.1
1760.5	Site E, 4',fuel line	OVA=ND	80	79.8	7.6
1760.6	Site F. (Dup.)	OVA=ND	80	58.4	8.3
M. Bl.	Method Blank		100	ND	3.3

Notes: ND = Not Detected, MDL = Method Detection Limit
* = Silica Gel Added, NA = Not Applicable
1760.2S= 107%, 1760.2SD= 109%, RPD= 2.3% 1760.2 Dup= 72%
1760.6S= 92%, 1760.6SD= 76%, RPD=19.2% 1760.6 Dup=112%
QC Limits: Recovery= +/-24%, RPD=23%

Brian K. McKee
Laboratory Director

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEPE Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 167
Ft. Monmouth, NJ 07703

Lab. ID #: 1760.1-.6
Sample Rec'd: 12/08/94
Analysis Start: 12/14/94
Analysis Comp: 12/15/94

Analysis: Munsel

Lab ID#	Soil Color
1760.1	5Y 4/3 Olive
1760.2	5Y 4/3 Olive
1760.3	5Y 5/6 Olive
1760.4	5Y 5/4 Olive
1760.5	5Y 5/6 Olive
1760.6	5Y 5/6 Olive

Brian K. McKee
Laboratory Director

U.S. ARMY FORT MONMOUTH

P.O. #: PW3-7

Chain of Custody

Project #:	Sampler: George/Clark	Date / Time 12/8 | 8-45	Start:
Customer: Dale	Site Name: 295 81533-68 Case # 94-9-13 1503-57	Analysis Parameters	Finish:
Phone:			Preservation Method

Lab Sample ID Number	Date/Time		Customer Sample Location/ID Number	Sample Matrix	# of Bottles		TPH	1,1,1-Trichloroethane	Trichloroethene				OVA	Remarks
1760.1	12/8	9-01	Site A - N Sidewall 5'	Soil	1		X	X	X				ND	Surface Ground
.2	"	9-05	Site B - E Sidewall 5'	"	1		X	X	X				ND	44° C
.3	"	9-08	Site C - W Sidewall 5'	"	1		X	X	X				ND	
.4	"	9-12	Site D - S Sidewall 5'	"	1		X	X	X				ND	
.5	"	9-16	Site E - 4' from Line trench	"	1		X	X	X				ND	OVA calibrated
.6	"	9-14	Site F (Dup)	"	1		X	X	X				ND	with zero air
														& Methane 97 ppm
														Range - 70

Relinquished By (signature)	Date / Time	Received By (signature)	Shipped By:
	12/8/94 | 1020		
Relinquished By (signature)	**Date / Time**	**Received for Lab by (signature):**	**Date / Time**

Note: A drawing depicting sample location should be attached or drawn on the reverse side of this chain of custody.

Enviornmental Laboratory

Certification Number 13461

December 15, 1994 Sarah D Hubbard 0748

2CM/M 500 MV=CAL+0

Std. 40.75 73 MV

Std 81.5 121 MV

Std 163 242 MV

Method Blank 0 MV

1591.1 59 MV

1760.5 18 MV

1760.6 12/15/94 sample Verd run

1760.6 14 18 MV

1760.6 15 MV duplicate

1560.6 149 MV Spike

1560.6 123 MV Spike-Dup

1561.1 2 MV

1561.2 17 MV

1561.3 2.1 MV

1561.4 +27 MV

December 14, 1994 Sarah D Hubbard 0635

Soxlet Extraction

2CM/M 500 MV=CAL+0

Std 40.75 70 MV R-9916

Std 81.5 128 MV

Std 163 259 MV

Method Blank 0 MV

1760.1 15 MV

1760.2 6 MV

1760.2 5 MV Duplicate

1760.2 55 MV Spike

1760.2 55 MV Spike Dup

1760.3 6 MV

1760.4 30 MV

Std Ck 81.5 126 MV

PHC Conformance/Non-conformance Summary Report

	No	Yes
1. Blank Contamination - If yes, list the sample and the corresponding concentrations in each blank	✓	
2. Matrix Spike/Matrix Sp Dup. Recoveries Meet Criteria (If not met, list the sample and corresponding recovery which falls outside the acceptable range)		✓
3. IR Spectra submitted for standards, blanks, & samples		✓
4. Chromatograms submitted for standards, blanks, and samples if GC fingerprinting was conducted.		N/A
5. Extraction holding time met. (If not met, list number of days exceeded for each sample)		✓
6. Analysis holding time met. (If not met,list number of days exceeded for each sample)		✓

Comments:

Laboratory Authentication Statement

I certify under penalty of law, where applicable, that this laboratory meets the Laboratory Performance Standards and Quality Control requirements specified in N.J.A.C. 7:18 and 40 CFR Part 136 for Water and Wastewater Analyses and SW 846 for Solid Waste Analysis. I have personally examined the information contained in this report, and to the best of my knowledge, I believe that the submitted information is true, accurate, complete, and meets the above referenced standards where applicable. I am aware that there are significant penalties for purposefully submitting falsified information, including the possibility of a fine and imprisonment.

Project #1760

Brian K. McKee
Laboratory Manager

princeton testing laboratory inc.

P.O. Box 3108
3490 U.S. Route 1
Princeton, NJ 08543-3108
(609) 452-9050
FAX (609) 452-0347

U.S. ARMY, FORT MONMOUTH
ATTN: SELFM-PW
Building 167
Fort Monmouth, New Jersey 07703-5108

Attn: Charles Appleby

Project # 81533-68
Building 295

JOB # 9405991-001MWS

Laboratory Certification # 11118

Reviewed by: W. Alan Volk 2/3/95
W. Alan Volk

TABLE OF CONTENTS

940599 1

LABORATORY DELIVERABLES

THIS FORM MUST BE COMPLETED BY THE LABORATORY OR ENVIRONMENTAL CONSULTANT AND ACCOMPANY ALL DATA SUBMISSIONS

The following laboratory deliverables shall be included in the data submission. All deviations from the accepted methodology and procedures, or performance values outside acceptable ranges shall be summarized in the Non-Conformance Summary. The proposed "Technical Requirements for Site Remediation" rules, which appeared in the May 4, 1992 New Jersey Register, provides further details. The document shall be bound and paginated, contain a table of contents, and all pages shall be legible. Incomplete packages will be returned or held without review until the data package is completed.

It is recommended that the analytical results summary sheets listing all targeted and non-targeted compounds with the method detection limits be included in one section of the data package and in the main body of the report.

		Check if Complete
1.	Cover Page, Title Page listing Lab Certification #, facility name & address, & date of report	✓
2.	Table of Contents	✓
3.	Summary Sheets listing analytical results for all targeted and non-targeted compounds	
4.	Summary Table cross-referencing field ID #'s vs. Lab ID #'s	✓
5.	Document bound, paginated and legible	✓
6.	Chain of Custody	✓
7.	Methodology Summary	✓
8.	Laboratory Chronicle and Holding Time Check	✓
9.	Results submitted on a dry weight basis (if applicable)	✓
10.	Method Detection Limits	
11.	Lab certified by NJDEPE for parameters or appropriate category of parameters or a member of the USEPA CLP	✓
12.	Non-Conformance Summary	✓

M. Alan Hall

Laboratory Manager or Environmental Consultant's Signature

2/2/95

Date

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME Princeton Testing Laboratory
CITY/STATE Princeton, N.J.

CASE NO. 5991 SDG NO. ____ SDG NOS. TO FOLLOW ____
SAS NO. ____

CONTRACT NO. Ft. Monmouth
SOW NO. OLM01.8

All documents delivered in the complete SDG file must be original documents where possible. (REFERENCE EXHIBIT B, SECTION II and SECTION III.)

		PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
1.	Inventory Sheet (Form DC-2) (Do not number)			✓	
2.	SDG Case Narrative			✓	
3.	SDG Cover Sheet/Traffic Report				
4.	Volatiles Data				
	a. QC Summary				
	System Monitoring Compound Summary (Form II VOA)			✓	
	Matrix Spike/Matrix Spike Duplicate Summary (Form III VOA)			✓	
	Method Blank Summary (Form IV VOA)			✓	
	GC/MS Instrument Performance Check (Form V VOA)			✓	
	Internal Standard Area and RT Summary (Form VIII VOA)			✓	
	b. Sample Data				
	TCL Results - (Form I VOA)			✓	
	Tentatively Identified Compounds (Form I VOA-TIC)			✓	
	Reconstructed total ion chromatograms (RIC) for each sample			✓	
	For each sample:				
	Raw spectra and background-subtracted mass spectra of target compounds identified			✓	
	Quantitation reports			✓	
	Mass spectra of all reported TICs with three best library matches			✓	
	c. Standards Data (All Instruments)				
	Initial Calibration Data (Form VI VOA)			✓	
	RICs and Quan Reports for all Standards			✓	
	Continuing Calibration Data (Form VII VOA)			✓	
	RICs and Quantitation Reports for all Standards			✓	
	d. Raw QC Data				
	BFB			✓	
	Blank Data			✓	
	Matrix Spike/Matrix Spike Duplicate Data			✓	

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (Cont.)

CASE NO. _____ SDG NO. _____ SDG NOS. TO FOLLOW _____
_____ _____ SAS NO. _____

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
9. Miscellaneous Data				
Original preparation and analysis forms or copies of preparation and analysis logbook pages	___	___	✓	___
Internal sample and sample extract transfer chain-of-custody records	___	___	✓	___
Screening records	___	___	___	___
All instrument output, including strip charts from screening activities (describe or list)				
_____	___	___	___	___
_____	___	___	___	___
EPA Shipping/Receiving Documents				
Airbills (No. of shipments ___)	___	___	___	___
Chain-of-Custody Records	___	___	✓	___
Sample Tags	___	___	___	___
Sample Log-In Sheet (Lab & DCl)	___	___	___	___
Miscellaneous Shipping/Receiving Records (describe or list)				
_____	___	___	___	___
_____	___	___	___	___
Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
LABORATORY CHRONICLE	___	___	✓	___
_____	___	___	___	___
10. Other Records (describe or list)				
Telephone Communication Log	___	___	___	___
_____	___	___	___	___
_____	___	___	___	___

11. Comments: _____
_____
_____
_____

Completed by: _____ _____ _____
(CLP Lab) (Signature) (Printed Name/Title) (Date)

Audited by: _____ _____ _____
(EPA) (Signature) (Printed Name/Title) (Date)

APPROVED SAMPLE ANALYSIS REQUEST

U.S. Army, Fort Monmouth N.J.
Attn: SELFM-PW
Building 167
Fort Monmouth, New Jersey 07703-5108
Attention: Charles Appleby
Phone:(908) 532-6224 FAX:(908) 532-2367

Customer Number: 1636-000
P.O. Number: DO 1-95U
Asbestos Analysis/Standard
Project Name: Bldg. 295

Project No.: 9405991-001MWS

Date Received: 12/13/94
Analysis Due : 12/31/94

Number Of Samples : 3
Number Of Containers: 4

Approved By: Jane Dennison

Reports: Custom Report Format

Sample I.D.'s	Code	Requested Analytical Services	Sampled
001 1764.1 Site B East Side Wall 12/07/94	CTS%U	Solids, Percent, SW, EPA 160.3	12/07/94
	SPU11	Sample Pickup, Zone 1 Special	
	VMS0B	Volatile Organics Library Search	
	VMS3A	Volatile Organics, PP, SW, 8240	
002 1764.2 Site B East Side Wall 12/07/94	CTS%U	Solids, Percent, SW, EPA 160.3	12/07/94
	VMS0B	Volatile Organics Library Search	
	VMS3A	Volatile Organics, PP, SW, 8240	
003 1764.3 Field Blank 12/07/94	VMW01	Volatile Organics Library Search	12/07/94
	VMW6A	Volatile Organics, WW, TC, EPA 8240	

Customer Notes:

Three copies of packages. See Data Mgmt. for details.

Initials/Date

Received By Lab: _____
Reviewed By: _____
Q.A. Approved: _____

Printed By: Rose Kovacs
Date: 01/30/95
Time: 10:43:51

01

U.S. ARMY FORT MONMOUTH

P.O. #: 94-0551

Chain of Custody

Project #:	Sampler: Grab/Comp	Date / Time 12/7 11-10	Analysis Parameters	Start:
Customer: D&S	Site Name: Bldg 295 E1533-68	Case # 94-9-13 1503-57		Finish:
Phone:				Preservation Method

Lab Sample ID Number	Date/Time	Customer Sample Location/ID Number	Sample Matrix	# of Bottles	VOA + 15	OVA	Remarks
7604.1	12/7/94 11-25	Site B1 east side well	soil	1	X	ND	
.2	12/7/94 11-30	Site B2 east side well	soil	1	X	ND	
.3	12/7/94 11:26	Field Blank	Aqueous	2	X	N/A	

Relinquished By (signature)	Date / Time	Received By (signature)	Shipped By:
[signature]	12/12/94 0945	Sarah G. Hubbard	
Relinquished By (signature)	Date / Time	Received for Lab by (signature):	Date / Time
Sarah G. Hubbard	12/12/94 1306	John Kenney	12/12 1306

Note: A drawing depicting sample location should be attached or drawn on the reverse side of this chain of custody.

Enviornmental Laboratory

CHAIN OF CUSTODY

U.S. Army, Fort Monmouth N.J.
Attn: SELFM-PW
Building 167
Fort Monmouth, New Jersey 07703-5108
Phone:(908) 532-6224 FAX:(908) 532-2367

Attention: Charles Appleby

Project Number: 9405991-001MWS
Date Received : 12/13/94
Time Received : 15:00
Number of Containers: 4
Number of Samples : 3

Page#: 1 of 1

Sample I.D.'s

001	1764.1 Site B East Side Wall 12/07/94	002	1764.2 Site B East Side Wall 12/07/94	003	1764.3 Field Blank 12/07/94

Relinquished By	Received By	Date	Time
J Kenneweg	J Brown J Brown	12/13/94	1700
J Brown	[illegible]	12/15/94	10:10

03

princeton testing laboratory inc.

P.O. Box 3108
3490 U.S. Route 1
Princeton, NJ 08543-3108
(609) 452-9050
FAX (609) 452-0347

LABORATORY CHRONICLE
ORGANIC ANALYSIS

Company: U.S. Army Fort Monmouth NJ Job #: 9405-991-001

Date Received & Refrigerated: 12/31/94 13 WBK

EXTRACTION INFORMATION

Base-Neutral Extractables
___ ___/___/___
___ ___/___/___
___ ___/___/___

Acid Extractables
___ ___/___/___
___ ___/___/___
___ ___/___/___

Pesticides/ PCBs
___ ___/___/___
___ ___/___/___

PCBs only
___ ___/___/___
___ ___/___/___

Herbicides
___ ___/___/___
___ ___/___/___

Pesticides (EPTOX)
___ ___/___/___

Other: _____
___ ___/___/___

ANALYSIS INFORMATION

Base-Neutral Extractables
___ ___/___/___
___ ___/___/___
___ ___/___/___

Acid Extractables
___ ___/___/___
___ ___/___/___
___ ___/___/___

Pesticides/ PCBs
___ ___/___/___
___ ___/___/___

PCBs only
___ ___/___/___
___ ___/___/___

Herbicides
___ ___/___/___
___ ___/___/___

Pesticides (EPTOX)
___ ___/___/___

Volatiles - 601/602
___ ___/___/___
___ ___/___/___

Volatiles - 624/8240
VVL 12/16/94
___ 12/20/94
___ ___/___/___

Other: _____
___ ___/___/___

Dept. Manager Review and Approval: [signature] 1/25/95

QC Supervisor Review and Approval: [signature] 2/2/95

04

princeton testing laboratory inc.

METHODOLOGY SUMMARY

Laboratory: Princeton Testing Lab. Case Name: U.S. Army Ft. Monmouth

Location: Princeton, New Jersey Case Number: 9404899-001

VOLATILE ORGANIC ANALYSES:

EPA SW 846 8240

SEMIVOLATILE ORGANIC ANALYSES (ABN EXTRACTABLES):

PESTICIDES/PCBs and CHLORINATED HERBICIDES:

METALS ANALYSES:

TOTAL CYANIDE ANALYSES:

TOTAL PHENOL ANALYSES:

OTHER ANALYSES (SPECIFY):

NOTE: Only methods actually used in the performance of analyses for this data package may be entered on this form:

NJDEPE Form A-3 (9/91)

GCMS ANALYSIS NON CONFORMANCE SUMMARY

	NO	YES
1. GCMS TUNE SPECIFICATION.		
a. BFB Passed		✓
b. DFTPP Passed		
2. GCMS TUNING FREQUENCY.		
a. Performed every 12 hours.		✓
b. Performed every 24 hours.		
3. GCMS Calibration.		
a. Initial calibration performed w/i 30 days of sample analysis.		✓
b. Continuing calibration w/i 12 hours.		✓
c. Continuing calibration w/i 24 hours.		
4. GCMS Calibration requirements.		
a. Calibration check compounds.		✓
b. System performance check compounds.		✓
5. Blank Contamination.		
a. VOA Fraction	None	
b. B/N Fraction		
c. Acid Fraction		
6. Surrogate Recoveries Within Limits.		
a. VOA Fraction		✓
b. B/N Fraction		
c. Acid Fraction		
7. Extraction Holding Time Met.		
8. Analysis Holding Time Met.		
a. VOA Fraction		✓
b. BNA Fraction		

Comments:

Laboratory Manager [signature] Date 1/25/95

princeton testing laboratory inc.

P.O. Box 3108
3490 U.S. Route 1
Princeton, NJ 08543-3108
(609) 452-9050
FAX (609) 452-0347

Jan 19, 1994.

U.S.Army, Fort Monmouth N.J
ATTN:SELFM-PW
Building 167
Fort Monmouth,New Jersey 07703-5108

Attention: Charles Appleby

Job Number: 9405991

CASE NARRATIVE

The following package contains analytical data pertaining to samples received by Princeton Testing Laboratory on 12/13/94. The samples were analyzed for volatile organics using SW-846 methodologies.

VOLATILE ORGANICS

BLANKS: The lab blanks had no contamination.

SAMPLES: Few target analytes were found in all the samples.

SURROGATES: All surrogate recoveries are within QC limits.

MS/MSD: Sample 1763.10 from PTL job# 9405963 was used for matrix spike and duplicate. All recoveries were within the QC limits.

If you have any further questions please do not hesitate to call me.

Khaja Eazazuddin.
GC/MS Supervisor.

07

QC SUMMARY

S T A N D A R D T E S T L I S T

Test Name: Volatile Organics, SW, SW-846 8240
SPEC CODE: VMS0A

Lab Code: M
Manager : KE
Units : ug/kg

Short Name: VO.SW.8240
List Price:
Report Type:

Description

#	Compound	MDL	CAS#	KEY#	CLIENT KEY#
	Chloromethane	10	00074873	C010	1454
	Bromomethane	10	00074839	C015	1462
3	Vinyl chloride	10	00075014		1531
4	Chloroethane	10	00075003		1452
5	Methylene chloride	5	00075092		1172
6	Acetone	5	00067641		1498
7	Carbon disulfide	5	00075150		1646
8	1,1-Dichloroethene	5	00075354		1442
9	1,1-Dichloroethane	5	00075343		1580
10	1,2-Dichloroethene (Total)	5	00540590		1583
1	Chloroform	5	00067663		1078
12	1,2-Dichloroethane	5	00107062		1383
13	2-Butanone	5	00078933		1278
4	1,1,1-Trichloroethane	5	00071556		1068
5	Carbon tetrachloride	5	00056235		1384
16	Bromodichloromethane	5	00075274		1480
17	1,1,2,2-Tetrachloroethane	5	00079345		1200
8	1,2-Dichloropropane	5	00078875		1368
9	trans-1,3-Dichloropropene	5	10061026		1364
20	Trichloroethene	5	00079016		1074
21	Dibromochloromethane	5	00124481		1390
2	1,1,2-Trichloroethane	5	00079005		1070
23	Benzene	5	00071432		1466
24	cis-1,3-Dichloropropene	5	10061015		1362
5	Bromoform	5	00075252		1124
6	2-Hexanone	5	00591786		1324
27	4-Methyl-2-Pentanone	5	00108101		1158
28	Tetrachloroethene	5	00127184		1096
	Toluene	5	00108333		1426
	Chlorobenzene	5	00108907		1564
31	Ethylbenzene	5	00100414		1394
32	Styrene	5	00100425		1120
3	Total Xylenes	5	01330207		1677
34	.				
35	.				
6	RECOVERY DATA	QC LIMITS			
7	.				
38	1,2-Dichloroethane-D4	70-121%			1577
39	Toluene-d8	84-138%	02037265		1579
0	4-Bromofluorobenzene	59-113%	00460004		1433

2B
VOLATILE SURROGATE SUMMARY

Lab Name:_Princeton Testing Lab. Contract:_US Army, Fort Monmouth.

Lab Code:_PTL_ Case No.:_5991_ SAS No.:_XXX_ SDG No.:_XXX

Matrix: (soil/water) _Soil____ Level:(low/med)_LOW_____

Instrument ID: _INCOS-500___

SAMPLE NO.	(1,2-DCE)	(TOL-D8)	(4-BFB)
M.BLANK 12/16/94	97	88	93
1764.1	101	100	95
1764.2	107	105	95
1763.10 MS	103	96	98
1763.10 MSD	105	105	100

(1,2-DCE)= 1,2-DICHLOROETHANE-d4 (76-114)
(TOL-d8)= TOLUENE-d8 (88-110)
(4-BFB) = 4-BROMOFLUOROBENZENE (86-115)

COMMENTS:

2B
VOLATILE SURROGATE SUMMARY

Lab Name:_Princeton Testing Lab. Contract:_US Army, Fort Monmouth.

Lab Code:_PTL_ Case No.:_5991_ SAS No.:_XXX_ SDG No.:_XXX

Matrix: (soil/water) _WATER___ Level:(low/med)_LOW_____

Instrument ID: _INCOS-500___

SAMPLE NO.	(1,2-DCE)	(TOL-D8)	(4-BFB)
M.BLANK 12/20/94	91	103	86
1764.3	100	91	103

(1,2-DCE)= 1,2-DICHLOROETHANE-d4 (76-114)
(TOL-d8)= TOLUENE-d8 (88-110)
(4-BFB) = 4-BROMOFLUOROBENZENE (86-115)

COMMENTS:

Princeton Testing Laboratory Inc.

P.O. Box 3108
3490 U.S. Route 1
Princeton, NJ 08543-3108
(609) 452-9050
(FAX) (609) 452-0347

Matrix Spike/Matrix Spike Duplicate Recovery Data
Test: Volatile Organics, Method 8240

Client: U.S. Army, Fort Monmouth N.J.

Project No.: 9405963-001

Lab Sample I.D.: 010

Client Sample I.D.: 1763.10
12/09/94
Center Pit 2D

Analyst: Uma Chaudhary
Instrument: Incos 500 Volatiles
Units: ug/kg

QC Batch Number: 9401216SV

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	MATRIX SPIKE CONCENTRATION	MS % REC	QC LIMITS REC
1,1-Dichloroethene	50	0	49.9	99.80	59-172
Trichloroethene	50	0	57.7	115.40	62-137
Benzene	50	0	55.5	111.00	66-142
Toluene	50	0	55.7	111.40	59-139
Chlorobenzene	50	0	56.5	113.00	60-133

COMPOUND	SPIKE ADDED	MSD CONCENTRATION	RPD	MSD % REC	QC LIMITS RPD
1,1-Dichloroethene	50	53.9	7.71	107.80	0-22
Trichloroethene	50	50.8	12.72	101.60	0-24
Benzene	50	50.8	8.84	101.60	0-21
Toluene	50	50.8	9.20	101.60	0-21
Chlorobenzene	50	55.1	2.51	110.20	0-21

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name: PTL.INC. Contract: US Army.Fort Monmouth.

Lab Code: PTL Case No.:5991-001SAS No.: xxxx SDG.No xxxx

Lab File ID: CBLK1216 Lab Sample ID: LAB BLANK

Date Analyzed: 12/16/94 Time Analyzed: 14:42

Matrix (soil/water) SOIL Level: (low/med) LOW

Instrument ID: FINN

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	1764.1	5991-01	C9235	12/16/94
02	1764.2	5991-02	C9236	12/16/94
03	1763.10.MS	5963-10	C9240	12/16/94
04	1763.10 MSD	5963-10	C9241	12/16/94
05				

COMMENTS:

Princeton Testing Laboratory Inc.

P.O. Box 3108
3490 U.S. Route 1
Princeton, NJ 08543-3108
(609) 452-9050
(FAX) (609) 452-1959

U.S. Army, Fort Monmouth N.J.
Attn: SELFM-PW
Building 167
Fort Monmouth, New Jersey 07703-5108
Attention: Charles Appleby
Project Name: Bldg. 295

Report Date: 01/19/95
Job Number: 9405991-001
Date Received: 12/13/94

Analysis: Volatile Organics, PP, SW, 8240
Units: ug/kg

Parameters	*Sample I.D.: Blank 12/16/94*
Acrolein	<50
Acrylonitrile	<50
Benzene	<5.0
Bromoform	<5.0
Carbon tetrachloride	<5.0
Chlorobenzene	<5.0
Chlorodibromomethane	<5.0
Chloroethane	<10
2-Chloroethyl vinyl ether	<5.0
Chloroform	<5.0
Dichlorobromomethane	<5.0
1,1-Dichloroethane	<5.0
1,2-Dichloroethane	<5.0
1,1-Dichloroethylene	<5.0
1,2-Dichloropropane	<5.0
cis-1,3-Dichloropropene	<5.0
trans-1,3-Dichloropropene	<5.0
Ethylbenzene	<5.0
Methyl bromide	<10
Methyl chloride	<5.0
Methylene chloride	<5.0
1,1,2,2-Tetrachloroethane	<5.0
Tetrachloroethylene	<5.0
Toluene	<5.0
trans-1,2-Dichloroethylene	<5.0
1,1,1-Trichloroethane	<5.0
1,1,2-Trichloroethane	<5.0
Trichloroethylene	<5.0
Trichlorofluoromethane	<5.0
Vinyl chloride	<10

RECOVERY DATA	QC LIMITS	
1,2-Dichloroethane-d4 (Surrogate)	76-114%	99
Toluene-d8 (Surrogate)	88-110%	88
4-Bromofluorobenzene (Surrogate)	86-115%	93

EPA SAMPLE NO.
LAB BLK 12/16

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Princeton Testing Lab U.S.Army,Fort_Monmouth_N.J.___.

Lab Code: PTL Case No.:5991 SAS No.:XXX SDG No.:XXX

Matrix: (Soil/Water) Soil — Lab Sample ID: M.BLK

Sample wt/vol: 5 (g/mL) g — Lab File ID: CBLK1216

Level: (low/med) LOW — Date Received: ____

%Moisture: not dec. ____ — Date Analyzed: 12/16/94

GC Column: VOCOL ID: 0.53 mm — Dilution Factor: 1

Soil Extract Vol: ____ul — Soil Aliquot Vol: ____ul

Number TICs found: 2 — CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

#S	CAS NUMB	COMPOUND NAME	RT	EST. CONC.	SCAN
1	0-00-0	UNKNOWN	37:37	41	2956
2	67-64-1	ACETONE	3:57	4.6	311

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name: PTL,INC. Contract: US Army,Fort Monmouth,

Lab Code: PTL Case No.:5991-001SAS No.: xxxx SDG.No xxxx

Lab File ID: CBLK1220 Lab Sample ID: LAB BLANK

Date Analyzed: 12/20/94 Time Analyzed: 08:40

Matrix (soil/water) WATER Level: (low/med) LOW

Instrument ID: FINN

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	1764.3	5991-03	C9244	12/20/94
02				
03				
04				
05				

COMMENTS:

Princeton Testing Laboratory Inc.

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U.S. Army, Fort Monmouth N.J.
Attn: SELFM-PW
Building 167
Fort Monmouth, New Jersey 07703-5108
Attention: Charles Appleby
Project Name: Bldg. 295

Report Date: 01/19/95
Job Number: 9405991-001
Date Received: 12/13/94

Analysis: Volatile Organics, WW, TC, EPA 8240
Units: ug/liter

Parameters	*Sample I.D.: Blank 12/20/94*
Chloromethane	<10
Bromomethane	<10
Vinyl chloride	<10
Chloroethane	<10
Methylene chloride	<5.0
Acetone	<10
Carbon disulfide	<5.0
1,1-Dichloroethene	<5.0
1,1-Dichloroethane	<5.0
1,2-Dichloroethene (Total)	<5.0
Chloroform	<5.0
1,2-Dichloroethane	<5.0
2-Butanone	<5.0
1,1,1-Trichloroethane	<5.0
Carbon tetrachloride	<5.0
Vinyl acetate	<5.0
Bromodichloromethane	<5.0
1,1,2,2-Tetrachloroethane	<5.0
1,2-Dichloropropane	<5.0
trans-1,3-Dichloropropene	<5.0
Trichloroethene	<5.0
Dibromochloromethane	<5.0
1,1,2-Trichloroethane	<5.0
Benzene	<5.0
cis-1,3-Dichloropropene	<5.0
Bromoform	<5.0
2-Hexanone	<5.0
4-Methyl-2-Pentanone	<5.0
Tetrachloroethene	<5.0
Toluene	<5.0
Chlorobenzene	<5.0
Ethylbenzene	<5.0
Styrene	<5.0
Total Xylenes	<5.0

RECOVERY DATA	QC LIMITS	
1,2-Dichloroethane-d4 (Surrogate)	76-114%	100
Toluene-d8 (Surrogate)	88-110%	91
4-Bromofluorobenzene (Surrogate)	86-115%	103

EPA SAMPLE NO.
LAB BLK 12/20

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Princeton Testing Lab U.S.Army,Fort_Monmouth_N.J.___.

Lab Code: PTL Case No.:5991 SAS No.:XXX SDG No.:XXX

Matrix: (Soil/Water) Soil

Lab Sample ID: M.BLK

Sample wt/vol: 5 (g/mL) mL

Lab File ID: CBLK1220

Level: (low/med) LOW

Date Received:

%Moisture: not dec.

Date Analyzed: 12/20/94

GC Column: VOCOL ID: 0.53 mm

Dilution Factor:

Soil Extract Vol: ul

Soil Aliquot Vol: ul

Number TICs found: 0

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

#S	CAS NUMB	COMPOUND NAME	RT	EST. CONC.	SCAN

5A

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

Lab Name: PRINCETON TESTING LAB. Contract:_US_ARMY,_FORT_MONMOUTH_.

Lab Code: PTL Case No.:_9405991____ SAS No.:_XXX____ SDG No.:_XXX_____

Lab File ID:___BFB1208A_____ BFB Injection Date:12/08/94_____

Instrument ID:___INCOS-500_ BFB Injection Time:__0944_____

Column:(pack/cap)_CAP.

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	56.4
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0
174	Greater than 50.0% of mass 95	70.3
175	5.0 - 9.0% of mass 174	6.6
176	Greater than 95.0%, but less than 101.0% of mass 174	98.0
177	5.0 - 9.0% of mass 176	6.1

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
_50_PPB STD_	__50 PPB_STD__	_CV120850_____	12/08/94__	__1149____
_10_PPB_STD_	__10_PPB_STD__	_CV120810A____	12/08/94__	__1418____
_20_PPB_STD_	__20_PPB_STD__	_CV120820_____	12/08/94__	__1052____
100_PPB_STD_	__100_PPB_STD_	_CV1208100____	12/08/94__	__1240____
200_PPB_STD_	__200_PPB_STD_	_CV1208200____	12/08/94__	__1330____

5A

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

Lab Name: PRINCETON TESTING LAB. Contract: US_ARMY, FORT_MONMOUTH_.

Lab Code: PTL Case No.: 9405991 SAS No.: XXX SDG No.: XXX

Lab File ID: BFB1216 BFB Injection Date: 12/16/94

Instrument ID: INCOS-500 BFB Injection Time: 1336

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.8
75	30.0 - 60.0% of mass 95	50.9
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.4
173	Less than 2.0% of mass 174	0.0
174	Greater than 50.0% of mass 95	89.8
175	5.0 - 9.0% of mass 174	6.4
176	Greater than 95.0%, but less than 101.0% of mass 174	97.8
177	5.0 - 9.0% of mass 176	6.2

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
50_PPB STD	50 PPB_STD	CV01216	12/16/94	1358
LAB_BLANK	M.BLK_12/16/94	CBLK1216	12/16/94	1442
1764.1	5991-001-01	C9235	12/16/94	1626
1764.2	5991-001-02	C9236	12/16/94	1713
1763.10_MS	5963-001-010	C9240	12/16/94	2023
1763.10_MSD	5963-001-010	C9241	12/16/94	2110

FORM V VOA

5A

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

Lab Name: PRINCETON TESTING LAB. Contract: US ARMY, FORT MONMOUTH.

Lab Code: PTL Case No.: 9405991 SAS No.: XXX SDG No.: XXX

Lab File ID: BFB1220 BFB Injection Date: 12/20/94

Instrument ID: INCOS-500 BFB Injection Time: 0736

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.7
75	30.0 - 60.0% of mass 95	48.6
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.0
174	Greater than 50.0% of mass 95	96.1
175	5.0 - 9.0% of mass 174	6.7
176	Greater than 95.0%, but less than 101.0% of mass 174	98.7
177	5.0 - 9.0% of mass 176	6.1

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
50 PPB STD	50 PPB STD	CV01220	12/20/94	0746
LAB BLANK	M.BLK 12/20/94	CBLK1220	12/20/94	0840
1764.3	5991-001-03	C9244	12/20/94	0930

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Princeton Testing Lab. Contract: US_Army,Fort_monmouth.___.
Case No.: 5991_ Lab File ID (standard):CV01216____ Instrument ID:FINN
Date Analyzed: 12/16/94____ Time Analyzed: 13:58_____

		IS1(BCM)	RT	IS2(DFB)	RT	IS3(CB)	RT
	12hr. STD ___	98026_____	08:10	393366_____	10:56	318962_____	23:42_
	Upper Limit_	196052____	08:60	786732_____	11:06	637924_____	23:92_
	Lower Limit	49013_____	07:60	196683_____	10:06	159481_____	22:92_
	EPA Sample.						
1	M.BLANK_12/16	93997_____	08:10	361160_____	10:55	307852_____	23:42_
2	1764.1_____	91647_____	08:10	363352_____	10:56	278386_____	23:42_
3	1764.2_____	83291_____	08:11	342408_____	10:55	265322_____	23:42_
4	1763.10_MS___	92352_____	08:09	334266_____	10:54	277778_____	23:40_
5	1763.10_MSD__	93508_____	08:09	367065_____	10:54	288806_____	23:40_

IS1=BROMOCHLOROMETHANE
IS2=1,4-DIFLUOROBENZENE
IS3=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.

* Values outside of QC limits. FORM VIII V-1 PAGE 1 of 1.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Princeton Testing Lab. Contract: US_Army,Fort_monmouth.___.
Case No.: 5991_ Lab File ID (standard):CV01220____ Instrument ID:FINN
Date Analyzed: 12/20/94____ Time Analyzed: 07:46_____

		IS1(BCM)	RT	IS2(DFB)	RT	IS3(CB)	RT
	12hr. STD ___	138986____	08:02	629111____	10:45	504872____	23:28_
	Upper Limit_	277972____	08:52	1258222____	10:95	1009744____	23:78_
	Lower Limit	69493____	07:52	314555____	09:95	252436____	22:78_
	EPA Sample.						
1	M.BLANK_12/20	138154____	08:03	574660____	10:47	463878____	23:29_
2	1764.3_____	89981____	08:06	384630____	10:50	328464____	23:35_

IS1=BROMOCHLOROMETHANE
IS2=1,4-DIFLUOROBENZENE
IS3=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.

* Values outside of QC limits. FORM VIII V-1 PAGE 1 of 1.

SAMPLE DATA

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U.S. Army, Fort Monmouth N.J.
Attn: SELFM-PW
Building 167
Fort Monmouth, New Jersey 07703-5108
Attention: Charles Appleby
Project Name: Bldg. 295

Report Date: 01/09/95
Job Number: 9405991-001
Date Received: 12/13/94

Analysis: Volatile Organics, PP, SW, 8240
Units: ug/kg

Parameters	*Sample I.D.: 1764.1 Site B East Side Wall 12/07/94*
Acrolein	<140
Acrylonitrile	<140
Benzene	<14
Bromoform	<14
Carbon tetrachloride	<14
Chlorobenzene	<14
Chlorodibromomethane	<14
Chloroethane	<27
2-Chloroethyl vinyl ether	<14
Chloroform	<14
Dichlorobromomethane	<14
1,1-Dichloroethane	<14
1,2-Dichloroethane	<14
1,1-Dichloroethylene	<14
1,2-Dichloropropane	<14
cis-1,3-Dichloropropene	<14
trans-1,3-Dichloropropene	<14
Ethylbenzene	<14
Methyl bromide	<27
Methyl chloride	<14
Methylene chloride	<14
1,1,2,2-Tetrachloroethane	<14
Tetrachloroethylene	<14
Toluene	<14
trans-1,2-Dichloroethylene	<14
1,1,1-Trichloroethane	<14
1,1,2-Trichloroethane	<14
Trichloroethylene	<14
Trichlorofluoromethane	12 J
Vinyl chloride	<27

RECOVERY DATA	QC LIMITS	
1,2-Dichloroethane-d4 (Surrogate)	76-114%	101
Toluene-d8 (Surrogate)	88-110%	100
4-Bromofluorobenzene (Surrogate)	86-115%	95

J = Estimated Value Detected Below MDL

EPA SAMPLE NO.
1764.1

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Princeton Testing Lab U.S.Army,Fort_Monmouth_N.J.

Lab Code: PTL Case No.:5991 SAS No.:XXX SDG No.:XXX

Matrix: (Soil/Water) Soil — Lab Sample ID: 01

Sample wt/vol: 2.5 (g/mL) g — Lab File ID: C9235

Level: (low/med) LOW — Date Received: 12/13/94

%Moisture: not dec. 27 — Date Analyzed: 12/16/94

GC Column: VOCOL ID: 0.53 mm — Dilution Factor: 2

Soil Extract Vol: _____ul — Soil Aliquot Vol: _____ul

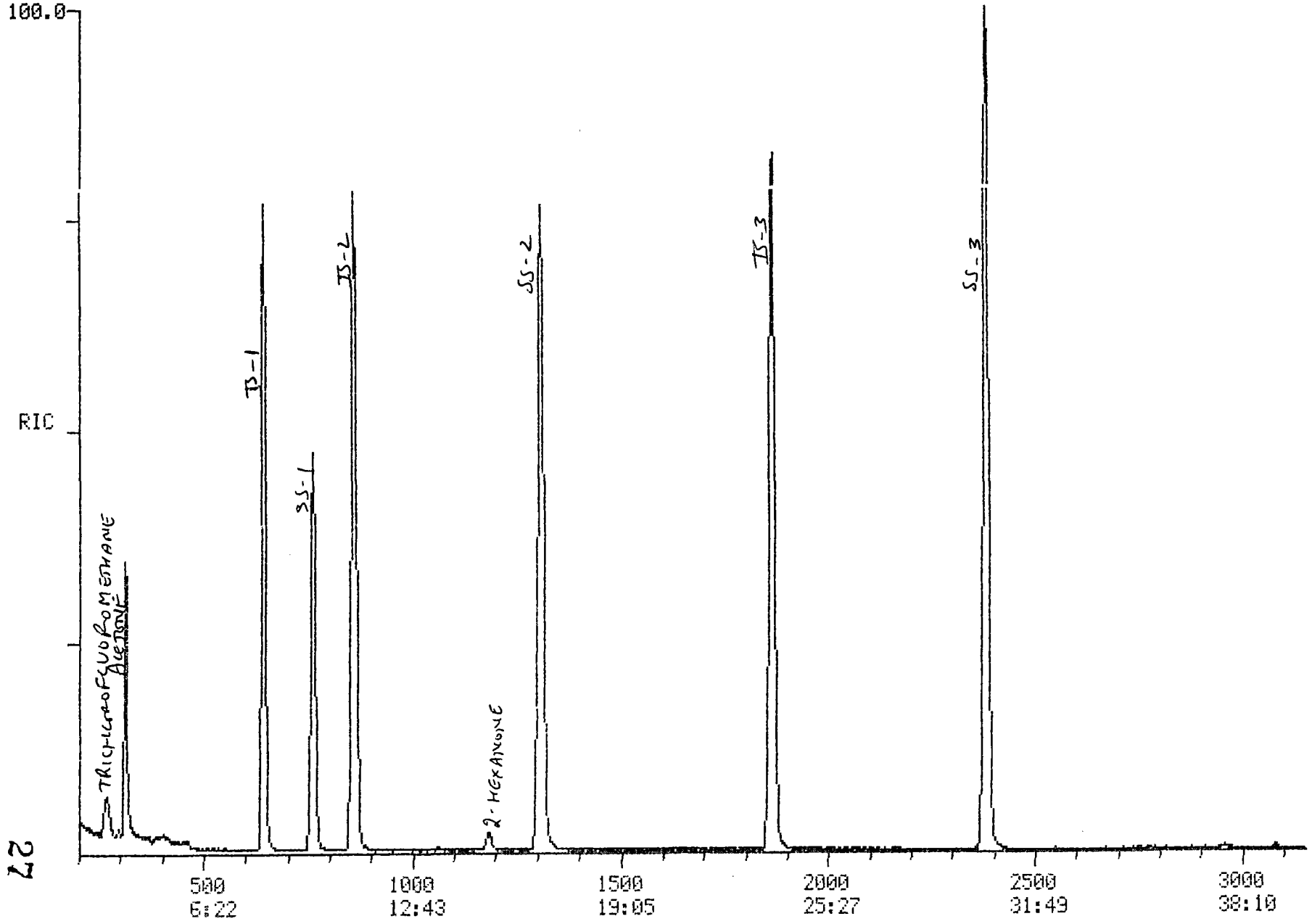
Number TICs found: 2 — CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

#S	CAS NUMB	COMPOUND NAME	RT	EST. CONC.	SCAN
1	67-64-1	ACETONE	03:58	170	312
2	0-00-0	2-HEXANONE	15:04	14	1184

RIC
12/16/94 16:26:00
SAMPLE: 5991-001-01 1764.1 SITE B EAST SIDE WALL
CONDS.: EPA METHOD 8240
RANGE: G 1,3151 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: C9235 #1
CALI: C9235 #3

SCANS 200 TO 3151



Quantitation Report File: C9235

Data: C9235.TI
12/16/94 16:26:00
Sample: 5991-001-01 1764.1 SITE B EAST SIDE WALL
Conds.: EPA METHOD 8240
Formula: 2.5G/5ML Instrument: FINN Weight: 0.000
Submitted by: US ARMY Analyst: UC Acct. No.: 5991-001

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

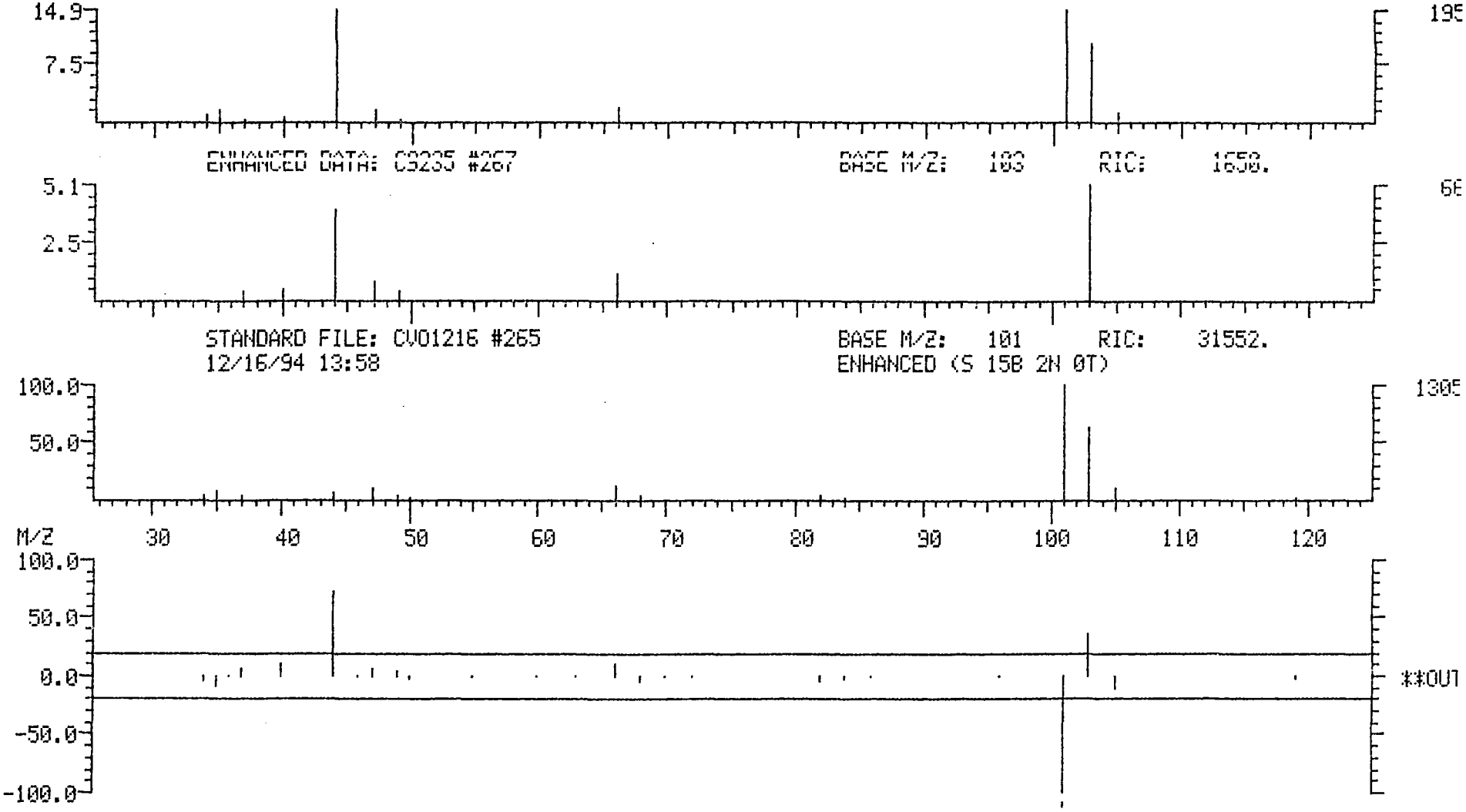
No	Name
1	CI01 BROMOCHLOROMETHANE **INT. STD. **
2	CI10 1,4-DIFLUOROBENZENE **INT. STD. **
3	CI20 CHLOROBENZENE-D5 **INT. STD. **
4	CS15 1,2-DICHLOROETHANE-D4 **S. STD. **
5	CS05 TOLUENE-D8 **S. STD. **
6	CS10 4-BROMOFLUOROBENZENE **S. STD. **
7	C010 CHLOROMETHANE **
8	C015 BROMOMETHANE
9	C020 VINYL CHLORIDE *
10	C025 CHLOROETHANE
11	C030 METHYLENE CHLORIDE
12	C251 ACROLIN
13	C035 ACETONE
14	C252 ACRYLONITRILE
15	C040 CARBON DISULFIDE
16	C045 1,1-DICHLOROETHENE *
17	C050 1,1-DICHLOROETHANE **
18	C055 TRANS-1,2-DICHLOROETHENE
19	C000 TRICHLOROFLUOROMETHANE
20	C060 CHLOROFORM *
21	C065 1,2-DICHLOROETHANE
22	C110 2-BUTANONE
23	C115 1,1,1-TRICHLOROETHANE
24	C120 CARBON TETRACHLORIDE
25	C125 VINYL ACETATE
26	C130 BROMO DICHLOROMETHANE
27	C140 1,2-DICHLOROPROPANE *
28	C145 TRANS-1,3 DICHLOROPROPENE
29	C150 TRICHLOROETHENE
30	C155 DIBROMOCHLOROMETHANE
31	C160 1,1,2-TRICHLOROETHANE
32	C165 BENZENE
33	C143 CIS-1,3-DICHLOROPROPENE
34	C175 2-CHLOROETHYL VINYL ETHER
35	C180 BROMOFORM **
36	C220 TETRACHLOROETHENE
37	C210 2-HEXANONE
38	C205 4-METHYL 2-PENTANONE
39	C225 1,1,2,2-TETRACHLOROETHANE **
40	C230 TOLUENE *
41	C235 CHLOROBENZENE **
42	C240 ETHYL BENZENE *
43	C245 STYRENE
44	C250 M+P-XYLENES
45	C253 1,3-DICHLOROBENZENE
46	C254 1,4-DICHLOROBENZENE
47	C255 1,2-DICHLOROBENZENE

No	Name
48	C250 O-XYLENE
49	BENZENE-D6 **S. STD. **

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	642	8:10	1	1.000	A BB	91647.	50.000	NG	10.53
2	114	859	10:56	2	1.000	A BB	363352.	50.000	NG	10.53
3	117	1863	23:42	3	1.000	A BB	278386.	50.000	NG	10.53
4	65	760	9:40	1	1.184	A BB	181478.	50.551	NG	10.65
5	98	1309	16:39	3	0.703	A BB	321459.	50.240	NG	10.58
6	174	2381	30:18	3	1.278	A BB	193182.	47.478	NG	10.00
7	NOT FOUND									
8	NOT FOUND									
9	NOT FOUND									
10	NOT FOUND									
11	49	383	4:52	1	0.597	A BV	1381.	0.365	NG	0.08
12	NOT FOUND									
13	43	312	3:58	1	0.486	A BB	159351.	166.094	NG	34.99
14	NOT FOUND									
15	NOT FOUND									
16	NOT FOUND									
17	NOT FOUND									
18	NOT FOUND									
19	101	265	3:22	1	0.413	A BB	28305.	4.394	NG	0.93
20	NOT FOUND									
21	NOT FOUND									
22	NOT FOUND									
23	NOT FOUND									
24	NOT FOUND									
25	NOT FOUND									
26	NOT FOUND									
27	NOT FOUND									
28	NOT FOUND									
29	NOT FOUND									
30	NOT FOUND									
31	NOT FOUND									
32	NOT FOUND									
33	NOT FOUND									
34	NOT FOUND									
35	NOT FOUND									
36	NOT FOUND									
37	43	1184	15:04	3	0.636	A BB	13949.	5.169	NG	1.09
38	NOT FOUND									
39	NOT FOUND									
40	91	1335	16:59	3	0.717	A BB	2659.	0.401	NG	0.08
41	NOT FOUND									
42	NOT FOUND									
43	NOT FOUND									
44	NOT FOUND									
45	NOT FOUND									
46	NOT FOUND									
47	NOT FOUND									
48	NOT FOUND									
49	NOT FOUND									

DATA FILE: C9235 #267 STANDARD FILE: CV01216 #265
TARGET COMPOUND COMPARISON CALI: C9235 #3
COMPOUND: C000 TRICHLOROFLUOROMETHANE

RAW DATA: C9235 #267 BASE M/Z: 101 RIC: 6392.
12/16/94 16:26



PROCEDURE: FILTER/TIC DIAGNOSTIC REPORT 12/21/94 9:12:40

DATA FILE: C9235

FILTER SCAN PARAMETERS

MAX. NUMBER TICS:	15
11-TABLE ENTRIES:	539
SCAN TOLERANCE :	1
MIN. RIC HT. [%]:	10
FIRST SCAN :	350
LAST SCAN :	3168
TIC THRESHOLD :	600

METHOD LIBRARY & LISTS

TIC I.S. LIBRARY:	LIBRARYLS
NBS SEARCH PROC :	SERLIB
PEAK FINDER PROC:	VOME
TCA I.S. LL :	LS
FILE NAME LIST :	TCAREF2

TARGET COMPOUND ANALYSIS:

TARGETS (QUAN LIST)	IS PEAKS	TOTAL TARGET PEAKS
8	3	11

FILTER PROCESSING:

	<----------REJECT PEAKS---------->						
TOTAL PEAKS	< 1ST SCAN	> LAST SCAN	< MIN RIC HT	< SCAN TOL	> MAX # PEAKS	TOTAL REJECTS	TOTAL TICS
23	3	0	8	7	0	18	5

TIC PROCESSING:

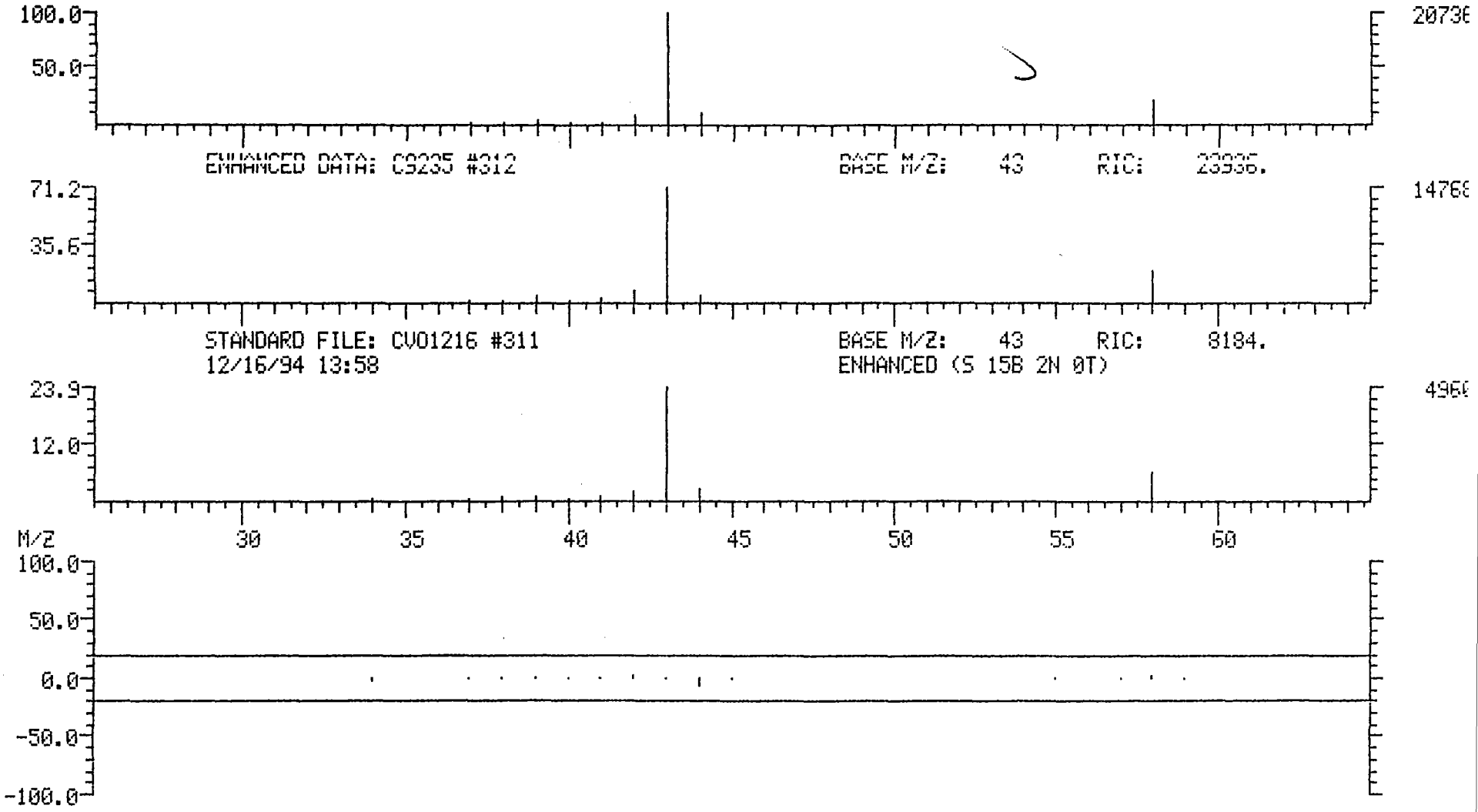
NO.	SCAN#	PURITY	FIT	MW	COMPOUND NAME [BEFORE TIC THRESHOLD]
1	756	788	924	69	1H-1,2,3-TRIAZOLE
2	1311	569	678	143	CYCLOHEXANECARBOXYLIC ACID, 1-
3	1859	425	656	144	SILANE, OCTYL-
4	1867	754	933	850	C120 CHLOROBENZENE-D5 **INT.ST
5	2376	251	417	162	BICYCLO[3.2.2]NONA-6,8-DIEN-3-

DATA FILE: C9235 #312
TARGET COMPOUND COMPARISON
COMPOUND: C035 ACETONE

STANDARD FILE: CV01216 #311
CALI: C9235 #3

RAW DATA: C9235 #312
12/16/94 16:26

BASE M/Z: 43 RIC: 32544.

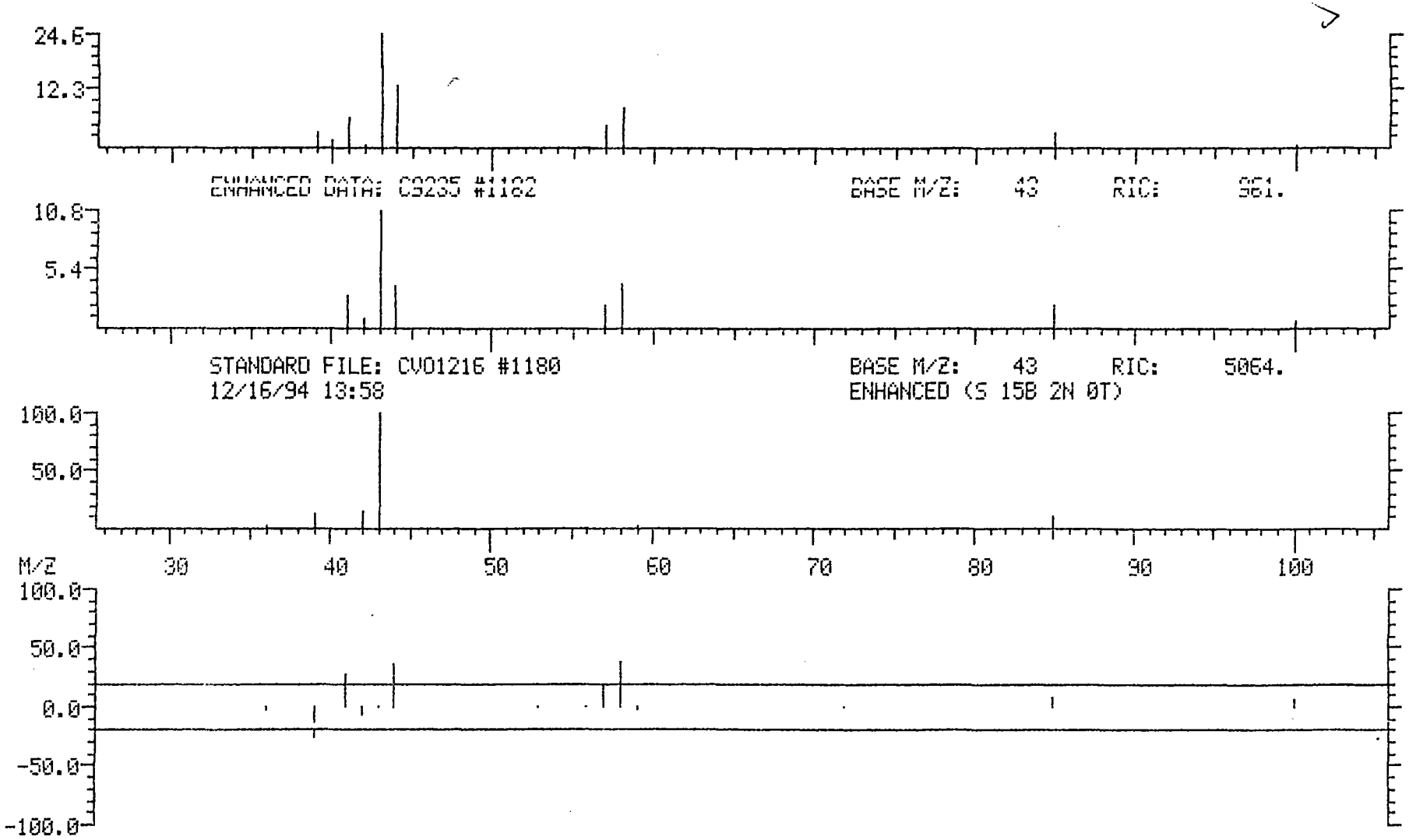


DATA FILE: C9235 #1182
TARGET COMPOUND COMPARISON
COMPOUND: C210 2-HEXANONE

STANDARD FILE: CV01216 #1180
CALI: C9235 #3

RAW DATA: C9235 #1182
12/16/94 16:26

BASE M/Z: 43 RIC: 2304.



Princeton Testing Laboratory Inc.

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3490 U.S. Route 1
Princeton, NJ 08543-3108
(609) 452-9050
(FAX) (609) 452-1959

U.S. Army, Fort Monmouth N.J.
Attn: SELFM-PW
Building 167
Fort Monmouth, New Jersey 07703-5108
Attention: Charles Appleby
Project Name: Bldg. 295

Report Date: 01/09/95
Job Number: 9405991-001
Date Received: 12/13/94

Analysis: Volatile Organics, PP, SW, 8240
Units: ug/kg

Parameters	*Sample I.D.: 1764.2 Site B East Side Wall 12/07/94*
Acrolein	<130
Acrylonitrile	<130
Benzene	<13
Bromoform	<13
Carbon tetrachloride	<13
Chlorobenzene	<13
Chlorodibromomethane	<13
Chloroethane	<27
2-Chloroethyl vinyl ether	<13
Chloroform	<13
Dichlorobromomethane	<13
1,1-Dichloroethane	<13
1,2-Dichloroethane	<13
1,1-Dichloroethylene	<13
1,2-Dichloropropane	<13
cis-1,3-Dichloropropene	<13
trans-1,3-Dichloropropene	<13
Ethylbenzene	<13
Methyl bromide	<27
Methyl chloride	<13
Methylene chloride	<13
1,1,2,2-Tetrachloroethane	<13
Tetrachloroethylene	<13
Toluene	<13
trans-1,2-Dichloroethylene	<13
1,1,1-Trichloroethane	<13
1,1,2-Trichloroethane	<13
Trichloroethylene	<13
Trichlorofluoromethane	<13
Vinyl chloride	<27

RECOVERY DATA	QC LIMITS	
1,2-Dichloroethane-d4 (Surrogate)	76-114%	107
Toluene-d8 (Surrogate)	88-110%	105
4-Bromofluorobenzene (Surrogate)	86-115%	95

EPA SAMPLE NO.
1764.2

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Princeton Testing Lab U.S.Army,Fort_Monmouth_N.J.___.

Lab Code: PTL Case No.:5991 SAS No.:XXX SDG No.:XXX

Matrix: (Soil/Water) Soil Lab Sample ID: 02

Sample wt/vol: 2.5 (g/mL) g Lab File ID: C9236

Level: (low/med) LOW Date Received: 12/13/94

%Moisture: not dec. 25 Date Analyzed: 12/16/94

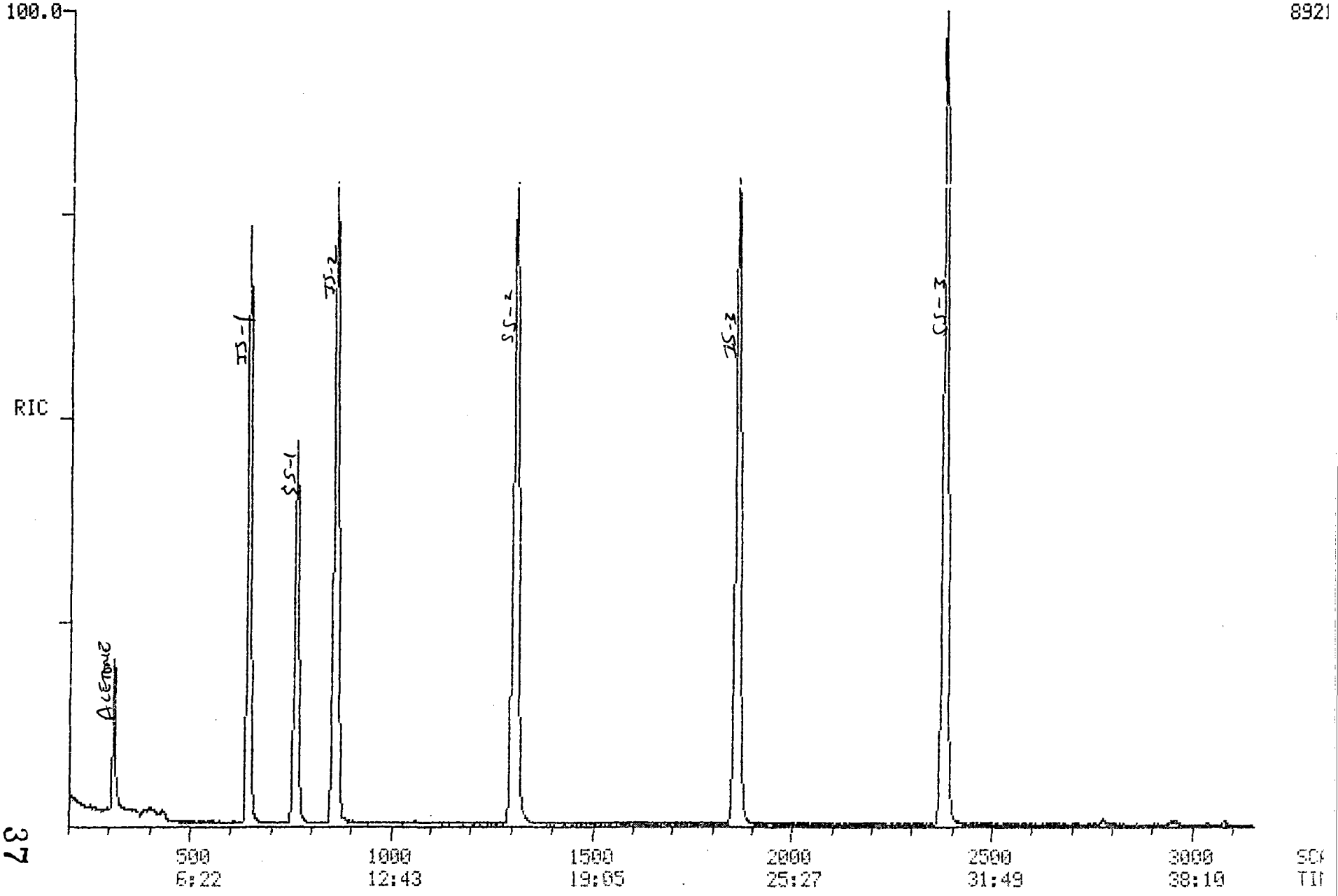
GC Column: VOCOL ID: 0.53 mm Dilution Factor: 2

Soil Extract Vol: _____ul Soil Aliquot Vol: _____ul

Number TICs found: 1 CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

#S	CAS NUMB	COMPOUND NAME	RT	EST. CONC.	SCAN
1	67-64-1	ACETONE	03:58	260	312

RIC DATA: C9236 #1 SCANS 200 TO 3151
12/16/94 17:13:00 CALI: C9236 #3
SAMPLE: 5991-001-02 1764.2 SITE B EAST SIDE WALL
CONDS.: EPA METHOD 8240
RANGE: G 1,3151 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



37

Quantitation Report File: C9236

Data: C9236.TI
12/16/94 17:13:00
Sample: 5991-001-02 1764.2 SITE B EAST SIDE WALL
Conds.: EPA METHOD 8240
Formula: 2.5G/5ML Instrument: FINN Weight: 0.000
Submitted by: US ARMY Analyst: UC Acct. No.: 5991-001

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

No	Name
1	CI01 BROMOCHLOROMETHANE **INT. STD. **
2	CI10 1,4-DIFLUOROBENZENE **INT. STD. **
3	CI20 CHLOROBENZENE-D5 **INT. STD. **
4	CS15 1,2-DICHLOROETHANE-D4 **S. STD. **
5	CS05 TOLUENE-D8 **S. STD. **
6	CS10 4-BROMOFLUOROBENZENE **S. STD. **
7	C010 CHLOROMETHANE **
8	C015 BROMOMETHANE
9	C020 VINYL CHLORIDE *
10	C025 CHLOROETHANE
11	C030 METHYLENE CHLORIDE
12	C251 ACROLIN
13	C035 ACETONE
14	C252 ACRYLONITRILE
15	C040 CARBON DISULFIDE
16	C045 1,1-DICHLOROETHENE *
17	C050 1,1-DICHLOROETHANE **
18	C055 TRANS-1,2-DICHLOROETHENE
19	C000 TRICHLOROFLUOROMETHANE
20	C060 CHLOROFORM *
21	C065 1,2-DICHLOROETHANE
22	C110 2-BUTANONE
23	C115 1,1,1-TRICHLOROETHANE
24	C120 CARBON TETRACHLORIDE
25	C125 VINYL ACETATE
26	C130 BROMO DICHLOROMETHANE
27	C140 1,2-DICHLOROPROPANE *
28	C145 TRANS-1,3 DICHLOROPROPENE
29	C150 TRICHLOROETHENE
30	C155 DIBROMOCHLOROMETHANE
31	C160 1,1,2-TRICHLOROETHANE
32	C165 BENZENE
33	C143 CIS-1,3-DICHLOROPROPENE
34	C175 2-CHLOROETHYL VINYL ETHER
35	C180 BROMOFORM **
36	C220 TETRACHLOROETHENE
37	C210 2-HEXANONE
38	C205 4-METHYL 2-PENTANONE
39	C225 1,1,2,2-TETRACHLOROETHANE **
40	C230 TOLUENE *
41	C235 CHLOROBENZENE **
42	C240 ETHYL BENZENE *
43	C245 STYRENE
44	C250 M+P-XYLENES
45	C253 1,3-DICHLOROBENZENE
46	C254 1,4-DICHLOROBENZENE
47	C255 1,2-DICHLOROBENZENE

No	Name
48	C250 O-XYLENE
49	BENZENE-D6 **S. STD. **

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	643	8:11	1	1.000	A BB	83291.	50.000 NG	12.44
2	114	858	10:55	2	1.000	A BB	342408.	50.000 NG	12.44
3	117	1862	23:42	3	1.000	A BB	265322.	50.000 NG	12.44
4	65	760	9:40	1	1.182	A BB	174652.	53.531 NG	13.32
5	98	1307	16:38	3	0.702	A BB	318814.	52.280 NG	13.01
6	174	2380	30:17	3	1.278	A BB	183426.	47.300 NG	11.77
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	49	385	4:54	1	0.599	A VV	1433.	~~0.417 NG~~	0.10
12	NOT FOUND								
13	43	312	3:58	1	0.485	A BB	85383.	97.925 NG	24.37
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
17	NOT FOUND								
18	NOT FOUND								
19	NOT FOUND								
20	NOT FOUND								
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	NOT FOUND								
26	NOT FOUND								
27	NOT FOUND								
28	NOT FOUND								
29	NOT FOUND								
30	NOT FOUND								
31	NOT FOUND								
32	NOT FOUND								
33	NOT FOUND								
34	NOT FOUND								
35	NOT FOUND								
36	NOT FOUND								
37	NOT FOUND								
38	NOT FOUND								
39	NOT FOUND								
40	91	1333	16:58	3	0.716	A VB	2394.	0.378 NG	0.09
41	NOT FOUND								
42	NOT FOUND								
43	NOT FOUND								
44	NOT FOUND								
45	NOT FOUND								
46	NOT FOUND								
47	NOT FOUND								
48	NOT FOUND								
49	NOT FOUND								

PROCEDURE: FILTER/TIC DIAGNOSTIC REPORT 12/21/94 9:25:19

DATA FILE: C9236

FILTER SCAN PARAMETERS

MAX. NUMBER TICS:	15
11-TABLE ENTRIES:	539
SCAN TOLERANCE :	1
MIN. RIC HT. [%]:	10
FIRST SCAN :	350
LAST SCAN :	3168
TIC THRESHOLD :	600

METHOD LIBRARY & LISTS

TIC I.S. LIBRARY:	LIBRARYLS
NBS SEARCH PROC :	SERLIB
PEAK FINDER PROC:	VOME
TCA I.S. LL :	LS
FILE NAME LIST :	TCAREF2

TARGET COMPOUND ANALYSIS:

TARGETS (QUAN LIST)	IS PEAKS	TOTAL TARGET PEAKS
6	3	9

FILTER PROCESSING:

	<----------REJECT PEAKS---------->						
TOTAL PEAKS	< 1ST SCAN	> LAST SCAN	< MIN RIC HT	< SCAN TOL	> MAX # PEAKS	TOTAL REJECTS	TOTAL TICS
29	3	0	9	6	0	18	11

TIC PROCESSING:

NO.	SCAN#	PURITY	FIT	MW	COMPOUND NAME [BEFORE TIC THRESHOLD]
1	646	918	940	128	METHANE, BROMOCHLORO-
2	853	265	466	76	THIOUREA (ACN)
3	855	192	257	116	1H-INDENE
4	866	416	662	168	2-FURANCARBOXYLIC ACID, BUTYL
5	1304	463	853	157	L-PROLINE, 1-METHYL-5-OXO-, ME
6	1311	558	667	143	CYCLOHEXANECARBOXYLIC ACID, 1-
7	1859	863	998	850	C120 CHLOROBENZENE-D5 **INT. ST
8	1864	831	997	850	C120 CHLOROBENZENE-D5 **INT. ST
9	1868	319	605	147	BUTANOIC ACID, 4-NITRO-, METHY
10	2376	150	417	177	CARBAMODITHIOIC ACID, DIETHYL-
11	2388	280	503	76	THIOUREA (ACN)

Quantitation Report File: C9236

Data: C9236.TI
12/16/94 17:13:00
Sample: 5991-001-02 1764.2 SITE B EAST SIDE WALL
Conds.: EPA METHOD 8240
Formula: 2.5G/5ML Instrument: FINN Weight: 0.000
Submitted by: US ARMY Analyst: UC Acct. No.: 5991-001

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

No	CAS #	Name
1	0-00-0	CI01 BROMOCHLOROMETHANE **INT.STD.**
2	0-00-0	CI10 1,4-DIFLUOROBENZENE **INT.STD.**
3	0-00-0	CI20 CHLOROBENZENE-D5 **INT.STD.**
4	74-97-5	METHANE, BROMOCHLORO-
5	0-00-0	UNKNOWN
6	0-00-0	UNKNOWN
7	0-00-0	(_\"DXZ4D (Z++\KXI;NI;I39%0"BJ;M#L
8	0-00-0	(_\"DXZ4D (Z++\KXI;NI;I39%0"BJ;M#L
9	0-00-0	(_\"DXZ4D (Z++\KXI;NI;I39%0"BJ;M#L

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	TOT	643	8:11	0	ISINV	A BB	500027.	******	UG/L	00.00
2	TOT	858	10:55	0	ISINV	A BB	722504.	******	UG/L	00.00
3	TOT	1861	23:41	0	ISINV	A BB	656144.	******	UG/L	00.00
4	TOT	643	8:11	1	1.000	A BB	604726.	60.469		44.52
5	TOT	1307	16:38	2	1.523	A BB	466012.	32.250		23.74
6	TOT	1308	16:39	2	1.524	A BB	622900.	43.107		31.74
7	TOT	1858	23:38	0	0.394	A BB	18.	-0.000	3%, !	-0.00
8	TOT	1861	23:41	0	0.395	A BB	148.	-0.000	3%, !	-0.00
9	TOT	1861	23:41	0	0.395	A BB	148.	-0.000	3%, !	-0.00

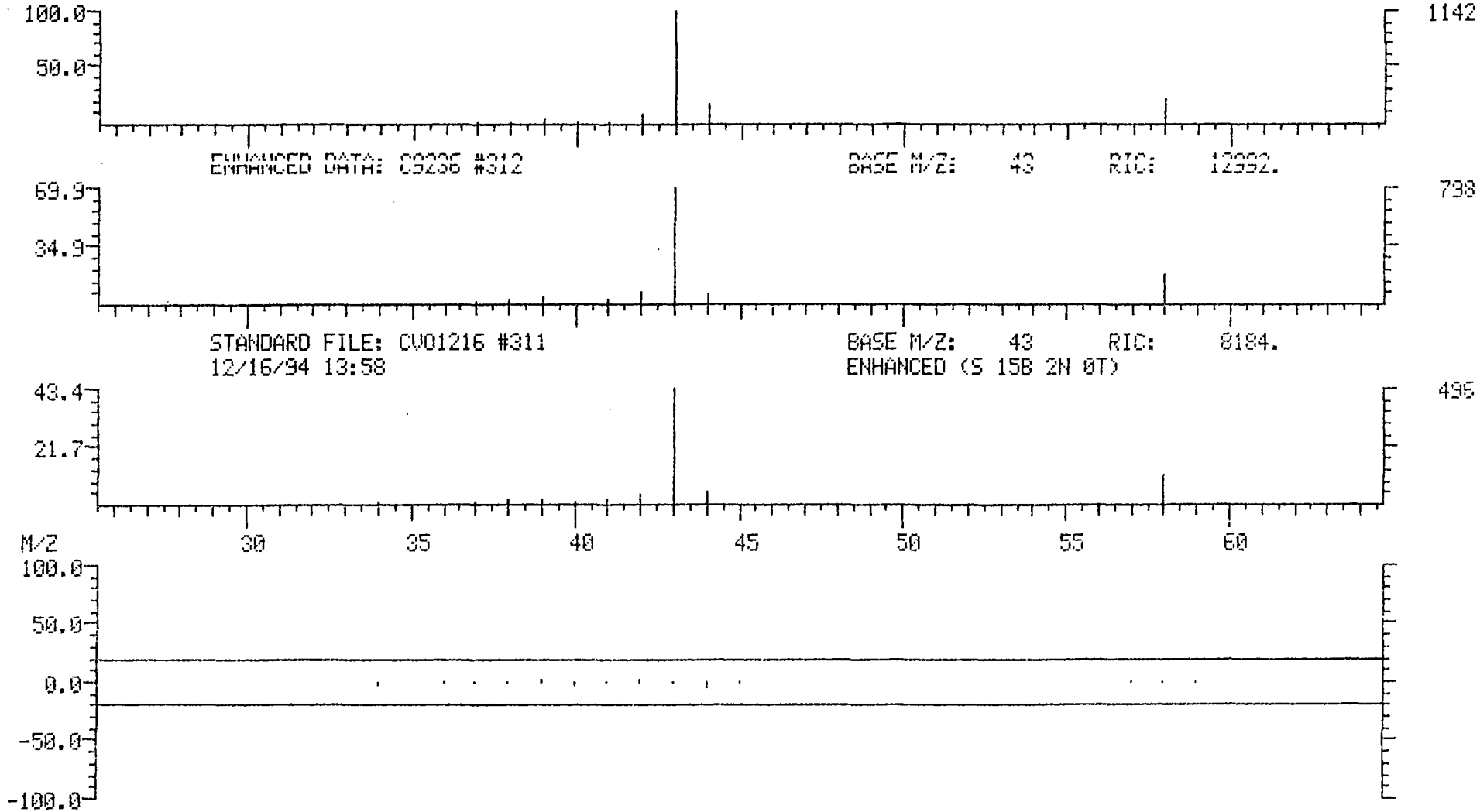
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:13	0.89	1.000						
2	19:21	0.56	1.000						
3	23:54	0.99	1.000						
4					60.47	1.00	60.469	1.000	60.47
5					32.25	1.00	32.250	1.000	32.25
6					43.11	1.00	43.107	1.000	43.11
7	0:00******		3.000	0.13	-0.00	100.00	0.000	-0.000	-0.00
8	0:00******		3.000	0.13	-0.00	100.00	0.000	-0.000	-0.00
9	0:00******		3.000	0.13	-0.00	100.00	0.000	-0.000	-0.00

DATA FILE: C9236 #312
TARGET COMPOUND COMPARISON
COMPOUND: C035 ACETONE

STANDARD FILE: CV01216 #311
CALI: C9236 #3

RAW DATA: C9236 #312
12/16/94 17:13

BASE M/Z: 43 RIC: 18336.



Princeton Testing Laboratory Inc.

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U.S. Army, Fort Monmouth N.J.
Attn: SELFM-PW
Building 167
Fort Monmouth, New Jersey 07703-5108
Attention: Charles Appleby
Project Name: Bldg. 295

Report Date: 01/19/95
Job Number: 9405991-001
Date Received: 12/13/94

Analysis: Volatile Organics, WW, TC, EPA 8240
Units: ug/liter

Parameters	*Sample I.D.:*	*1764.3 Field Blank 12/07/94*
Chloromethane		<10
Bromomethane		<10
Vinyl chloride		<10
Chloroethane		<10
Methylene chloride		1.1 J
Acetone		26
Carbon disulfide		<5.0
1,1-Dichloroethene		<5.0
1,1-Dichloroethane		<5.0
1,2-Dichloroethene (Total)		<5.0
Chloroform		<5.0
1,2-Dichloroethane		<5.0
2-Butanone		<5.0
1,1,1-Trichloroethane		<5.0
Carbon tetrachloride		<5.0
Vinyl acetate		<5.0
Bromodichloromethane		<5.0
1,1,2,2-Tetrachloroethane		<5.0
1,2-Dichloropropane		<5.0
trans-1,3-Dichloropropene		<5.0
Trichloroethene		<5.0
Dibromochloromethane		<5.0
1,1,2-Trichloroethane		<5.0
Benzene		<5.0
cis-1,3-Dichloropropene		<5.0
Bromoform		<5.0
2-Hexanone		<5.0
4-Methyl-2-Pentanone		<5.0
Tetrachloroethene		<5.0
Toluene		<5.0
Chlorobenzene		<5.0
Ethylbenzene		<5.0
Styrene		<5.0
Total Xylenes		<5.0

RECOVERY DATA	QC LIMITS	
1,2-Dichloroethane-d4 (Surrogate)	76-114%	96
Toluene-d8 (Surrogate)	88-110%	93
4-Bromofluorobenzene (Surrogate)	86-115%	98

J = Estimated Value Detected Below MDL

EPA SAMPLE NO.
1764.3

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Princeton Testing Lab U.S.Army,Fort_Monmouth_N.J.___.

Lab Code: PTL Case No.:5991 SAS No.:XXX SDG No.:XXX

Matrix: (Soil/Water)_water_____ Lab Sample ID:___03_____

Sample wt/vol:____5____(g/mL)_mL_ Lab File ID:___C9244_____

Level: (low/med)_____LOW_____ Date Received:_12/13/94_____

%Moisture: not dec._____ Date Analyzed:___12/20/94____

GC Column: _VOCOL____ID: _0.53_mm Dilution Factor:___1_____

Soil Extract Vol: _____ul Soil Aliquot Vol: _____ul

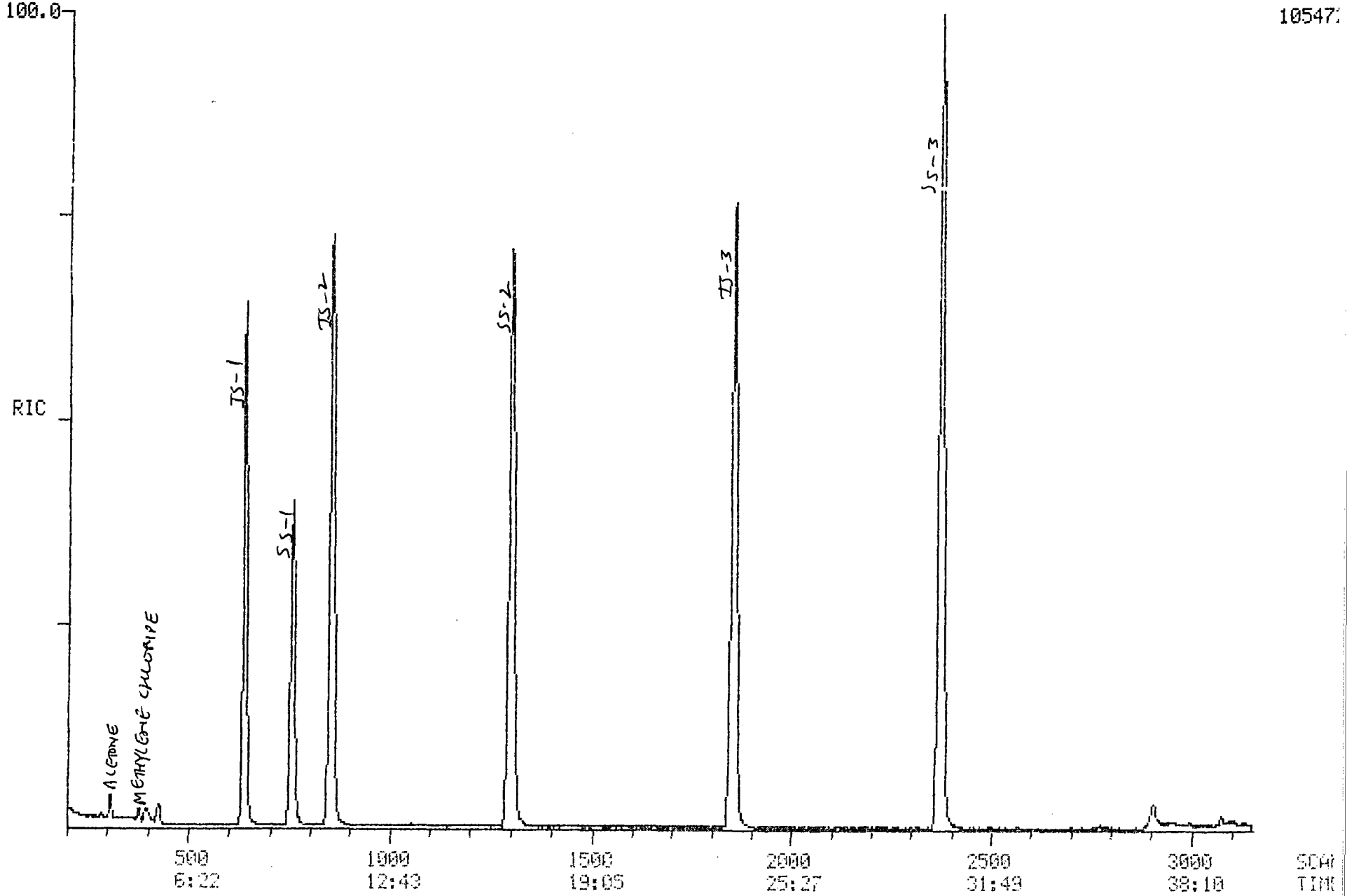
Number TICs found: ___0_____ CONCENTRATION UNITS:
(ug/L or ug/Kg)___ug/L_____

#S	CAS NUMB	COMPOUND NAME	RT	EST. CONC.	SCAN

RIC
12/20/94 9:30:00
SAMPLE: 5991-001-03 1764.3
CONDS.: EPA METHOD 8240
RANGE: G 1,3151 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: C9244 #1
CALI: C9244 #3

SCANS 200 TO 3151



Quantitation Report File: C9244

Data: C9244.TI
12/20/94 9:30:00
Sample: 5991-001-03 1764.3
Conds.: EPA METHOD 8240
Formula: 5ML Instrument: FINN Weight: 0.000
Submitted by: USARMY Analyst: UC Acct. No.: 5991-001

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

No	Name
1	CI01 BROMOCHLOROMETHANE **INT. STD. **
2	CI10 1,4-DIFLUOROBENZENE **INT. STD. **
3	CI20 CHLOROBENZENE-D5 **INT. STD. **
4	CS15 1,2-DICHLOROETHANE-D4 **S. STD. **
5	CS05 TOLUENE-D8 **S. STD. **
6	CS10 4-BROMOFLUOROBENZENE **S. STD. **
7	C010 CHLOROMETHANE **
8	C015 BROMOMETHANE
9	C020 VINYL CHLORIDE *
10	C025 CHLOROETHANE
11	C030 METHYLENE CHLORIDE
12	C251 ACROLIN
13	C035 ACETONE
14	C252 ACRYLONITRILE
15	C040 CARBON DISULFIDE
16	C045 1,1-DICHLOROETHENE *
17	C050 1,1-DICHLOROETHANE **
18	C055 TRANS-1,2-DICHLOROETHENE
19	C000 TRICHLOROFLUOROMETHANE
20	C060 CHLOROFORM *
21	C065 1,2-DICHLOROETHANE
22	C110 2-BUTANONE
23	C115 1,1,1-TRICHLOROETHANE
24	C120 CARBON TETRACHLORIDE
25	C125 VINYL ACETATE
26	C130 BROMO DICHLOROMETHANE
27	C140 1,2-DICHLOROPROPANE *
28	C145 TRANS-1,3 DICHLOROPROPENE
29	C150 TRICHLOROETHENE
30	C155 DIBROMOCHLOROMETHANE
31	C160 1,1,2-TRICHLOROETHANE
32	C165 BENZENE
33	C143 CIS-1,3-DICHLOROPROPENE
34	C175 2-CHLOROETHYL VINYL ETHER
35	C180 BROMOFORM **
36	C220 TETRACHLOROETHENE
37	C210 2-HEXANONE
38	C205 4-METHYL 2-PENTANONE
39	C225 1,1,2,2-TETRACHLOROETHANE **
40	C230 TOLUENE *
41	C235 CHLOROBENZENE **
42	C240 ETHYL BENZENE *
43	C245 STYRENE
44	C250 M+P-XYLENES
45	C253 1,3-DICHLOROBENZENE
46	C254 1,4-DICHLOROBENZENE
47	C255 1,2-DICHLOROBENZENE

No	Name
48	C250 O-XYLENE
49	BENZENE-D6 **S. STD. **

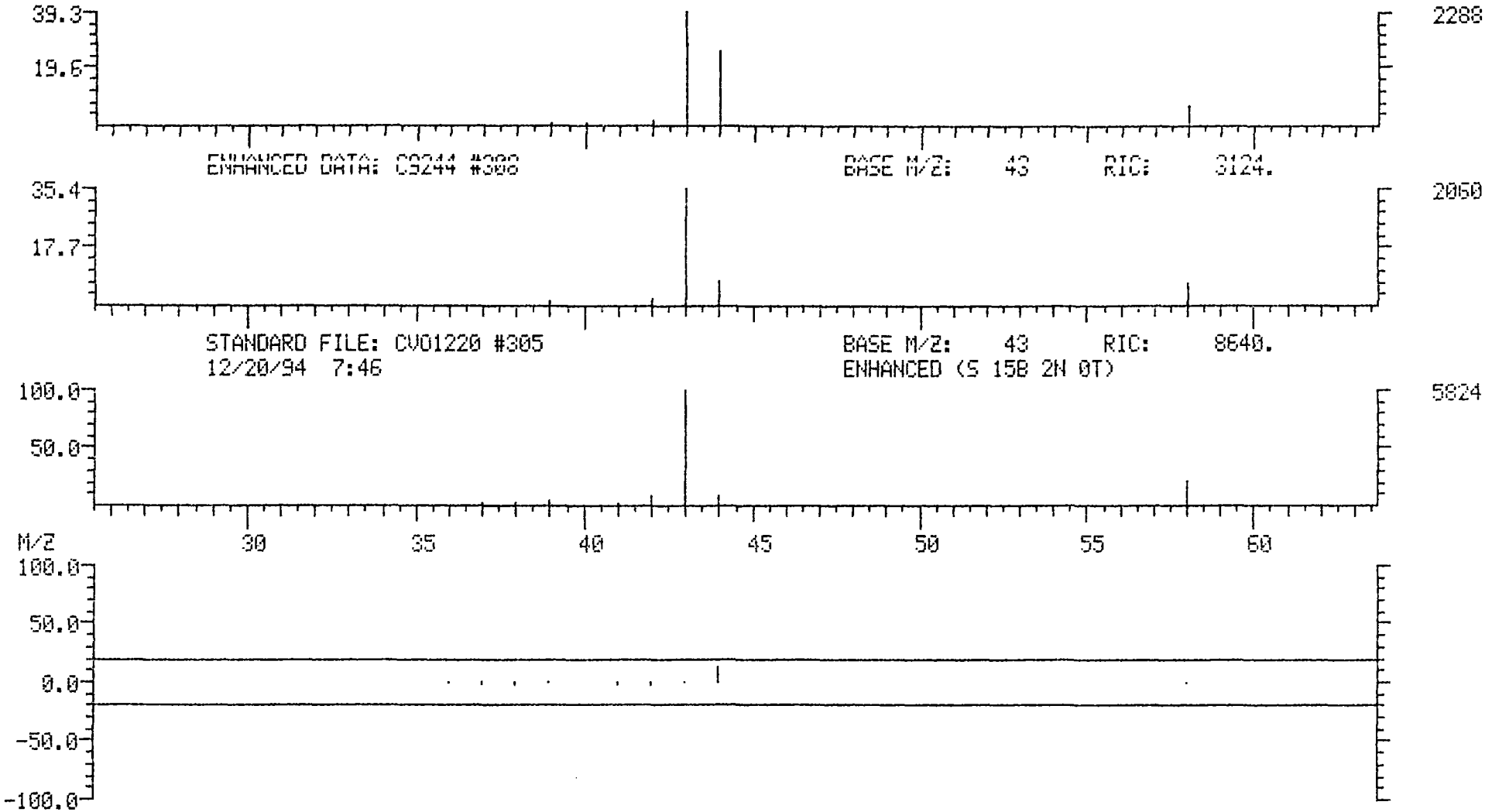
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	636	8:06	1	1.000	A BB	89981.	50.000 NG	15.61
2	114	852	10:50	2	1.000	A BB	384630.	50.000 NG	15.61
3	117	1853	23:35	3	1.000	A BB	328464.	50.000 NG	15.61
4	65	754	9:36	1	1.186	A BB	176119.	47.840 NG	14.94
5	98	1300	16:32	3	0.702	A BB	343328.	46.598 NG	14.55
6	174	2371	30:10	3	1.280	A BB	247457.	48.886 NG	15.26
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	49	378	4:49	1	0.594	A BB	4994.	1.107 NG	0.35
12	NOT FOUND								
13	43	308	3:55	1	0.484	A BB	16661.	25.502 NG	7.96
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
17	NOT FOUND								
18	NOT FOUND								
19	NOT FOUND								
20	NOT FOUND								
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	NOT FOUND								
26	NOT FOUND								
27	NOT FOUND								
28	NOT FOUND								
29	NOT FOUND								
30	NOT FOUND								
31	NOT FOUND								
32	NOT FOUND								
33	NOT FOUND								
34	NOT FOUND								
35	NOT FOUND								
36	NOT FOUND								
37	NOT FOUND								
38	NOT FOUND								
39	NOT FOUND								
40	91	1325	16:52	3	0.715	A BB	3030.	0.404 NG	0.13
41	NOT FOUND								
42	NOT FOUND								
43	NOT FOUND								
44	NOT FOUND								
45	NOT FOUND								
46	NOT FOUND								
47	NOT FOUND								
48	NOT FOUND								
49	NOT FOUND								

DATA FILE: C9244 #308
TARGET COMPOUND COMPARISON
COMPOUND: C035 ACETONE

STANDARD FILE: CV01220 #305
CALI: C9244 #3

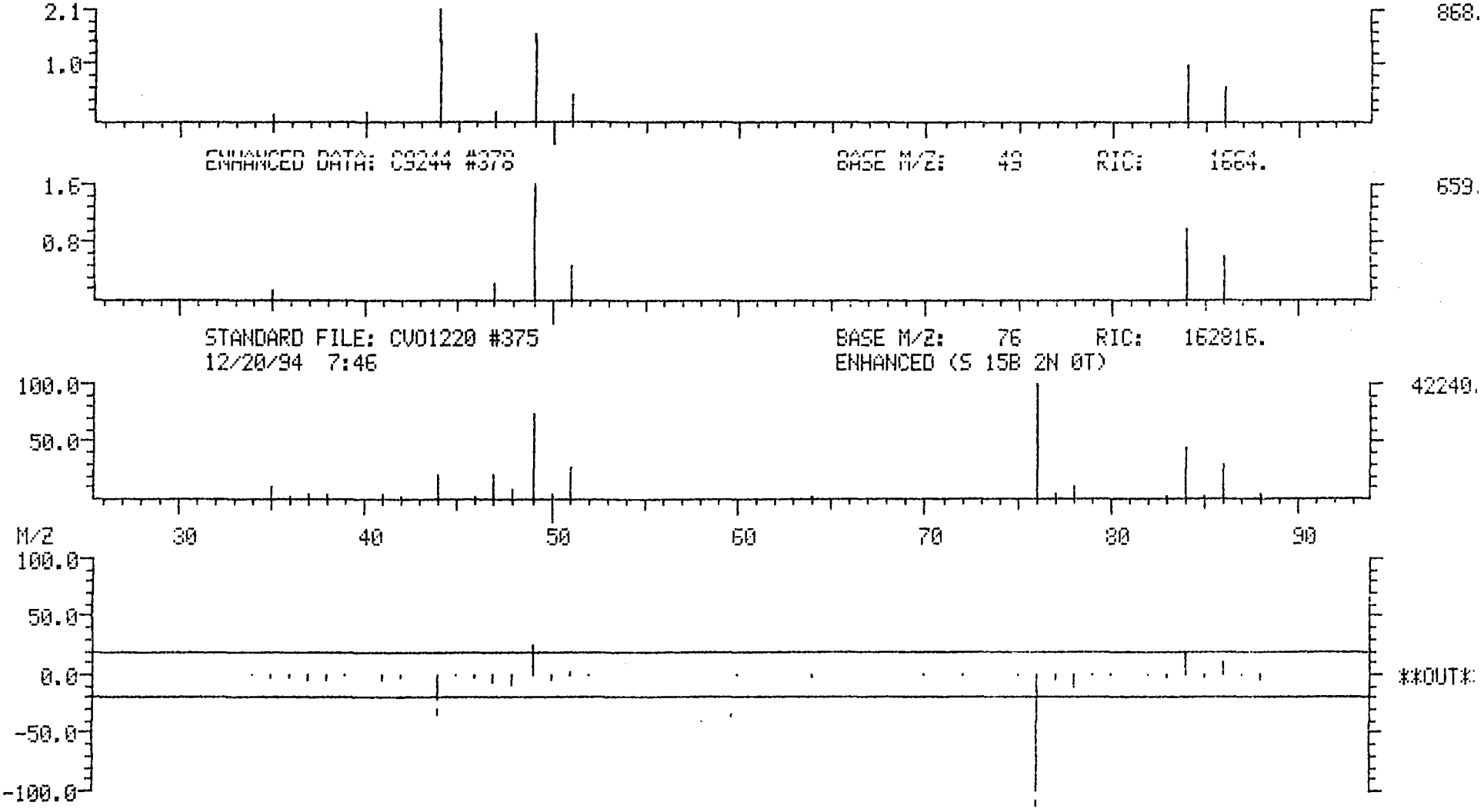
RAW DATA: C9244 #308
12/20/94 9:30

BASE M/Z: 43 RIC: 4376.



DATA FILE: C9244 #378 STANDARD FILE: CV01220 #375
TARGET COMPOUND COMPARISON CALI: C9244 #3
COMPOUND: C030 METHYLENE CHLORIDE

RAW DATA: C9244 #378 BASE M/Z: 44 RIC: 2648.
12/20/94 9:30



Quantitation Report File: C9244

Data: C9244.TI
12/20/94 9:30:00
Sample: 5991-001-03 1764.3
Conds.: EPA METHOD 8240
Formula: 5ML Instrument: FINN Weight: 0.000
Submitted by: USARMY Analyst: UC Acct. No.: 5991-001

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

No	CAS #	Name
1	0-00-0	CI01 BROMOCHLOROMETHANE **INT. STD.**
2	0-00-0	CI10 1,4-DIFLUOROBENZENE **INT. STD.**
3	0-00-0	CI20 CHLOROBENZENE-D5 **INT. STD.**
4	0-00-0	(_\"DXZ4D (Z++\KXI;NI;I39%0"BJ;M#L
5	0-00-0	(_\"DXZ4D (Z++\KXI;NI;I39%0"BJ;M#L

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	TOT	637	8:06	0	ISINV	A BB	534865.	******	UG/L	00.00
2	TOT	852	10:50	0	ISINV	A BB	800346.	******	UG/L	00.00
3	TOT	1854	23:35	0	ISINV	A BB	797296.	******	UG/L	00.00
4	TOT	1854	23:35	0	0.393	A BB	22.	47.840	3%, !	*4783
5	TOT	1856	23:37	0	0.394	A BB	40.	46.598	3%, !	*4659

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:13	0.88	1.000						
2	19:21	0.56	1.000						
3	23:54	0.99	1.000						
4	0:00	******	3.000	0.13	47.84	100.00	-0.000	-0.000	0.48
5	0:00	******	3.000	0.13	46.60	100.00	-0.000	-0.000	0.47

PROCEDURE: FILTER/TIC DIAGNOSTIC REPORT 12/20/94 10:31:00

DATA FILE: C9244

FILTER SCAN PARAMETERS

MAX. NUMBER TICS:	15
11-TABLE ENTRIES:	539
SCAN TOLERANCE :	1
MIN. RIC HT. [%]:	10
FIRST SCAN :	350
LAST SCAN :	3168
TIC THRESHOLD :	600

METHOD LIBRARY & LISTS

TIC I.S. LIBRARY:	LIBRARYLS
NBS SEARCH PROC :	SERLIB
PEAK FINDER PROC:	VOME
TCA I.S. LL :	LS
FILE NAME LIST :	TCAREF2

TARGET COMPOUND ANALYSIS:

TARGETS (QUAN LIST)	IS PEAKS	TOTAL TARGET PEAKS
6	3	9

FILTER PROCESSING:

	<----------REJECT PEAKS---------->						
TOTAL PEAKS	< 1ST SCAN	> LAST SCAN	< MIN RIC HT	< SCAN TOL	> MAX # PEAKS	TOTAL REJECTS	TOTAL TICS
15	0	0	7	7	0	14	1

TIC PROCESSING:

NO.	SCAN#	PURITY	FIT	MW	COMPOUND NAME [BEFORE TIC THRESHOLD]
1	1857	824	1000	850	CI20 CHLOROBENZENE-D5 **INT.ST

STANDARDS DATA

Initial Calibration Data

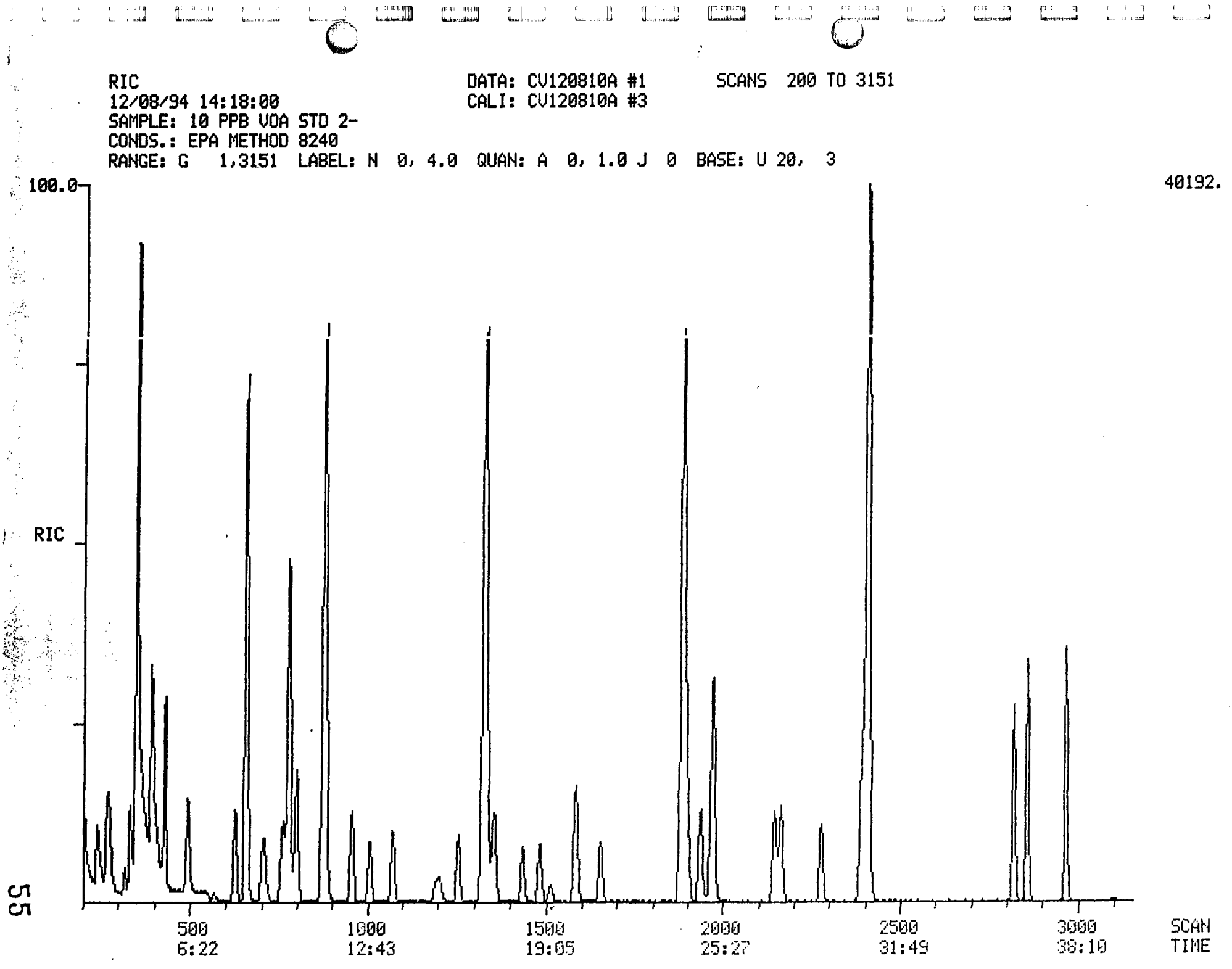
Instrument Identifier: FINN
Calibration Date: 12/08/94
35% RSD METHOD-8240
MIN RF FOR SPCC (**) = 0.30

	Compound	RF 10 (CV120894A)	RF 20 (CV110820)	RF 50 (CV110850)	RF 100 (CV110810)	RF 200 (CV120820)	Mean RF	%RSD
C010	CHLOROMETHANE **	1.287	1.341	1.194	1.293	1.281	1.279	4.155
C015	BROMOMETHANE	1.577	1.849	1.794	2.155	2.162	1.908	13.147
C020	VINYL CHLORIDE *	1.715	1.702	1.995	2.221	2.062	1.939	11.648
C025	CHLOROETHANE	0.858	0.974	0.958	1.162	1.189	1.028	13.814
C030	METHYLENE CHLORIDE	3.150	3.150	2.819	2.994	2.767	2.976	6.031
C251	ACROLIN	0.009	0.018	0.036	0.031	0.047	0.028	53.477
C035	ACETONE	1.119	0.615	0.579	0.668	0.637	0.723	30.924
C252	ACRYLONITRILE	0.311	0.272	0.317	0.325	0.327	0.310	7.173
C040	CARBON DISULFIDE	4.109	4.866	4.926	5.147	5.271	4.864	9.305
C045	1,1-DICHLOROETHENE *	1.158	1.312	1.327	1.259	1.430	1.297	7.663
C050	1,1-DICHLOROETHANE **	2.336	2.684	2.544	2.670	3.019	2.650	9.381
C055	TRANS-1,2-DICHLOROETHEN	3.257	3.546	3.224	4.068	3.939	3.607	10.701
C000	TRICHLOROFLUOROMETHA	3.832	4.750	4.838	5.660	4.733	4.763	13.601
C060	CHLOROFORM *	2.757	3.149	3.106	3.121	3.347	3.096	6.881
C065	1,2-DICHLOROETHANE	2.340	2.611	2.634	2.792	3.169	2.709	11.224
C110	2-BUTANONE	0.125	0.094	0.112	0.120	0.116	0.113	10.439
C115	1,1,1-TRICHLOROETHANE	0.532	0.579	0.632	0.606	0.602	0.590	6.358
C120	CARBON TETRACHLORIDE	0.526	0.614	0.618	0.619	0.612	0.598	6.744
C125	VINYL ACETATE	0.642	0.664	0.748	0.838	0.931	0.764	15.819
C130	BROMO DICHLOROMETHANE	0.593	0.628	0.672	0.716	0.798	0.682	11.726
C140	1,2-DICHLOROPROPANE	0.269	0.328	0.338	0.340	0.344	0.324	9.621
C145	TRANS-1,3 DICHLOROPROPE	0.355	0.383	0.461	0.505	0.547	0.450	17.929
C150	TRICHLOROETHENE	0.361	0.396	0.418	0.411	0.435	0.404	6.906
C155	DIBROMOCHLOROMETHANE	0.502	0.471	0.562	0.631	0.687	0.571	15.693
C160	1,1,2-TRICHLOROETHANE	0.272	0.277	0.306	0.330	0.328	0.303	9.039
C165	BENZENE	0.793	0.822	0.858	0.862	0.973	0.862	7.933
C143	CIS-1,3-DICHLOROPROPENE	0.420	0.467	0.504	0.529	0.585	0.501	12.462
C175	2-CHLOROETHYL VINYL ETH	0.115	0.135	0.161	0.166	0.169	0.149	15.529
C180	BROMOFORM **	0.511	0.302	0.402	0.485	0.462	0.432	19.293
C220	TETRACHLOROETHENE	0.633	0.635	0.597	0.673	0.688	0.645	5.569
C210	2-HEXANONE	0.465	0.462	0.438	0.486	0.470	0.464	3.698
C205	4-METHYL 2-PENTANONE	0.321	0.223	0.221	0.257	0.226	0.250	16.921
C225	1,1,2,2-TETRACHLOROETHA	1.380	0.438	0.494	0.545	0.460	0.663	60.699
C230	TOLUENE *	1.231	1.313	1.222	1.265	1.328	1.272	3.744
C235	CHLOROBENZENE **	1.005	0.966	0.948	1.023	1.041	0.997	3.894
C240	ETHYL BENZENE *	0.487	0.501	0.470	0.521	0.506	0.497	3.872
C245	STYRENE	0.997	0.959	1.043	1.172	1.097	1.053	7.959
C250	M+P-XYLENES	1.246	1.197	1.283	1.377	1.521	1.325	9.682
C253	1,3-DICHLOROBENZENE	1.318	1.024	1.121	1.208	1.172	1.169	9.260
C254	1,4-DICHLOROBENZENE	1.477	1.050	1.152	1.227	1.187	1.219	13.004
C255	1,2-DICHLOROBENZENE	1.461	0.887	0.989	1.048	1.001	1.077	20.657
C250	O-XYLENE	0.598	0.609	0.635	0.644	0.594	0.616	3.653

DATAFILE: CV120850 Calibration Check

Instrument Identifier: FINN
Calibration Date: 12/08/94
Standard File: CV120850
Date: 12/08/94 Time: 15:06:00
25% D
MIN RF FOR SPCC (**) = 0.300

	Compound	Mean RF(I)	RF(O)	% D
CS15	1,2-DICHLOROETHANE-D4 *	2.121	2.135	0.000
CS05	TOLUENE-D8 **S. STD. **	1.185	1.135	0.000
CS10	4-BROMOFLUOROBENZENE **	0.650	0.696	0.000
C010	CHLOROMETHANE **	1.279	1.194	6.657
C015	BROMOMETHANE	1.908	1.794	5.972
C020	VINYL CHLORIDE *	1.939	1.995	2.869
C025	CHLOROETHANE	1.028	0.958	6.816
C030	METHYLENE CHLORIDE	2.976	2.819	5.272
C251	ACROLIN	0.028	0.036	26.650
C035	ACETONE	0.723	0.579	20.025
C252	ACRYLONITRILE	0.310	0.317	2.046
C040	CARBON DISULFIDE	4.864	4.926	1.280
C045	1,1-DICHLOROETHENE *	1.297	1.327	2.319
C050	1,1-DICHLOROETHANE **	2.650	2.544	4.036
C055	TRANS-1,2-DICHLOROETHEN	3.607	3.224	10.619
C000	TRICHLOROFLUOROMETHA	4.763	4.838	1.587
C060	CHLOROFORM *	3.096	3.106	0.337
C065	1,2-DICHLOROETHANE	2.709	2.634	2.780
C110	2-BUTANONE	0.113	0.112	1.438
C115	1,1,1-TRICHLOROETHANE	0.590	0.632	7.102
C120	CARBON TETRACHLORIDE	0.598	0.618	3.445
C125	VINYL ACETATE	0.764	0.748	2.203
C130	BROMO DICHLOROMETHANE	0.682	0.672	1.425
C140	1,2-DICHLOROPROPANE	0.324	0.338	4.285
C145	TRANS-1,3 DICHLOROPROPE	0.450	0.461	2.467
C150	TRICHLOROETHENE	0.404	0.418	3.388
C155	DIBROMOCHLOROMETHANE	0.571	0.562	1.496
C160	1,1,2-TRICHLOROETHANE	0.303	0.306	1.225
C165	BENZENE	0.862	0.858	0.426
C243	CIS-1,3-DICHLOROPROPENE	0.501	0.504	0.620
C175	2-CHLOROETHYL VINYL ETH	0.149	0.161	7.980
C180	BROMOFORM **	0.432	0.402	7.069
C220	TETRACHLOROETHENE	0.645	0.597	7.431
C210	2-HEXANONE	0.464	0.438	5.588
C205	4-METHYL 2-PENTANONE	0.250	0.221	11.498
C225	1,1,2,2-TETRACHLOROETHA	0.663	0.494	25.510
C230	TOLUENE *	1.272	1.222	3.953
C235	CHLOROBENZENE **	0.997	0.948	4.867
C240	ETHYL BENZENE *	0.497	0.470	5.356
C245	STYRENE	1.053	1.043	1.019
C250	M+P-XYLENES	1.325	1.283	3.141
C253	1,3-DICHLOROBENZENE	1.169	1.121	4.067
C254	1,4-DICHLOROBENZENE	1.219	1.152	5.439
C255	1,2-DICHLOROBENZENE	1.077	0.989	8.229
C250	O-XYLENE	0.616	0.635	3.038


RIC
12/08/94 14:18:00
SAMPLE: 10 PPB VOA STD 2-
CONDS.: EPA METHOD 8240
RANGE: G 1,3151 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: CV120810A #1
CALI: CV120810A #3
SCANS 200 TO 3151
100.0
40192.
RIC
55
500
6:22
1000
12:43
1500
19:05
2000
25:27
2500
31:49
3000
38:10
SCAN
TIME

Quantitation Report File: CV120810A

Data: CV120810A.TI
12/08/94 14:18:00
Sample: 10 PPB VOA STD 2-
Conds.: EPA METHOD 8240
Formula: 5ML Instrument: FINN Weight: 0.000
Submitted by: PTL Analyst: UC Acct. No.: 5-PT

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

No	Name
1	CI01 BROMOCHLOROMETHANE **INT. STD. **
2	CI10 1,4-DIFLUOROBENZENE **INT. STD. **
3	CI20 CHLOROBENZENE-D5 **INT. STD. **
4	CS15 1,2-DICHLOROETHANE-D4 **S. STD. **
5	CS05 TOLUENE-D8 **S. STD. **
6	CS10 4-BROMOFLUOROBENZENE **S. STD. **
7	C010 CHLOROMETHANE **
8	C015 BROMOMETHANE
9	C020 VINYL CHLORIDE *
10	C025 CHLOROETHANE
11	C030 METHYLENE CHLORIDE
12	C251 ACROLIN
13	C035 ACETONE
14	C252 ACRYLONITRILE
15	C040 CARBON DISULFIDE
16	C045 1,1-DICHLOROETHENE *
17	C050 1,1-DICHLOROETHANE **
18	C055 TRANS-1,2-DICHLOROETHENE
19	C000 TRICHLOROFLUOROMETHANE
20	C060 CHLOROFORM *
21	C065 1,2-DICHLOROETHANE
22	C110 2-BUTANONE
23	C115 1,1,1-TRICHLOROETHANE
24	C120 CARBON TETRACHLORIDE
25	C125 VINYL ACETATE
26	C130 BROMO DICHLOROMETHANE
27	C140 1,2-DICHLOROPROPANE *
28	C145 TRANS-1,3 DICHLOROPROPENE
29	C150 TRICHLOROETHENE
30	C155 DIBROMOCHLOROMETHANE
31	C160 1,1,2-TRICHLOROETHANE
32	C165 BENZENE
33	C143 CIS-1,3-DICHLOROPROPENE
34	C175 2-CHLOROETHYL VINYL ETHER
35	C180 BROMOFORM **
36	C220 TETRACHLOROETHENE
37	C210 2-HEXANONE
38	C205 4-METHYL 2-PENTANONE
39	C225 1,1,2,2-TETRACHLOROETHANE **
40	C230 TOLUENE *
41	C235 CHLOROBENZENE **
42	C240 ETHYL BENZENE *
43	C245 STYRENE
44	C250 M+P-XYLENES
45	C253 1,3-DICHLOROBENZENE
46	C254 1,4-DICHLOROBENZENE
47	C255 1,2-DICHLOROBENZENE

No	Name	
48	C250	O-XYLENE
49		BENZENE-D6 **S. STD. **

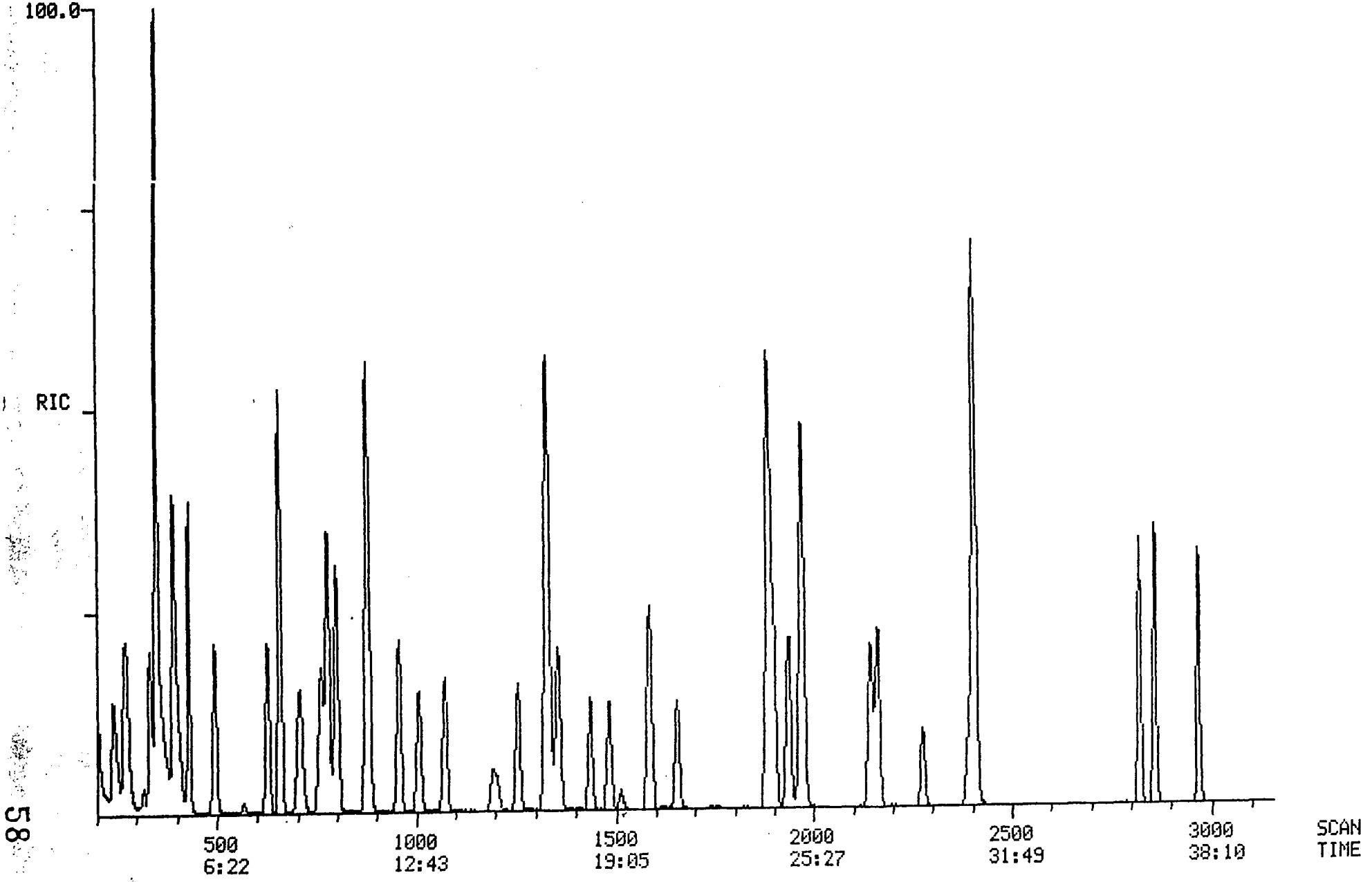
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	655	8:20	1	1.000	A BB	37714.	50.000 NG	6.89
2	114	876	11:09	2	1.000	A BB	161723.	50.000 NG	6.89
3	117	1885	23:59	3	1.000	A BB	120725.	50.000 NG	6.89
4	65	776	9:52	1	1.185	A BB	78077.	48.483 NG	6.68
5	98	1329	16:55	3	0.705	A BB	144370.	52.703 NG	7.26
6	174	2406	30:37	3	1.276	A BB	74730.	44.530 NG	6.14
7	50	193	2:27	1	0.295	A BB	9702.	10.776 NG	1.49
8	94	241	3:04	1	0.368	A BB	11895.	8.794 NG	1.21
9	62	201	2:33	1	0.307	A BB	12933.	8.599 NG	1.19
10	64	252	3:12	1	0.385	A BB	6467.	8.954 NG	1.23
11	49	391	4:59	1	0.597	A BB	23755.	11.474 NG	1.58
12	56	314	4:00	1	0.479	A BB	62.	2.342 NG	0.32
13	43	319	4:04	1	0.487	A BB	8440.	19.356 NG	2.67
14	53	408	5:11	1	0.623	A BB	2340.	9.811 NG	1.35
15	76	395	5:02	1	0.603	A BB	30990.	8.341 NG	1.15
16	96	332	4:13	1	0.507	A BB	8729.	8.723 NG	1.20
17	63	493	6:16	1	0.753	A BB	17618.	9.185 NG	1.27
18	61	430	5:28	1	0.656	A BB	24566.	10.103 NG	1.39
19	101	271	3:27	1	0.414	A BB	28898.	7.919 NG	1.09
20	83	625	7:57	1	0.954	A BB	20789.	8.874 NG	1.22
21	62	797	10:08	1	1.217	A BB	17649.	8.884 NG	1.22
22	43	567	7:13	2	0.647	A BB	4022.	11.171 NG	1.54
23	97	704	8:57	2	0.804	A BB	17192.	8.416 NG	1.16
24	117	758	9:39	2	0.865	A BB	16987.	8.503 NG	1.17
25	43	496	6:19	2	0.566	A BB	20745.	8.585 NG	1.18
26	83	1071	13:38	2	1.223	A BB	19178.	8.832 NG	1.22
27	63	1006	12:48	2	1.148	A BB	8685.	7.965 NG	1.10
28	75	1435	18:16	2	1.638	A BB	11468.	7.692 NG	1.06
29	95	955	12:09	2	1.090	A BB	11667.	8.641 NG	1.19
30	129	1655	21:04	2	1.889	A BB	16230.	8.932 NG	1.23
31	97	1482	18:51	2	1.692	A BB	8771.	8.867 NG	1.22
32	78	798	10:09	2	0.911	A BB	25618.	9.238 NG	1.27
33	75	1255	15:58	2	1.433	A BB	13569.	8.330 NG	1.15
34	63	1194	15:12	2	1.363	A BB	3714.	7.148 NG	0.99
35	173	2277	28:58	2	2.599	A BB	16506.	12.719 NG	1.75
36	166	1583	20:09	3	0.840	A BB	15266.	10.591 NG	1.46
37	43	1202	15:18	3	0.638	A BB	11208.	10.606 NG	1.46
38	43	1513	19:15	3	0.803	A BB	7728.	14.513 NG	2.00
39	83	2392	30:26	3	1.269	A BB	33308.	27.945 NG	3.85
40	91	1356	17:15	3	0.719	A BB	29721.	10.080 NG	1.39
41	112	1899	24:10	3	1.007	A BB	24264.	10.604 NG	1.46
42	106	1937	24:39	3	1.028	A BB	11751.	10.356 NG	1.43
43	104	2165	27:33	3	1.149	A BB	24057.	9.560 NG	1.32
44	106	1972	25:06	3	1.046	A BB	30064.	9.707 NG	1.34
45	146	2820	35:53	3	1.496	M XX	31803.	11.754 NG	1.62
46	146	2858	36:22	3	1.516	M XX	35641.	12.815 NG	1.77
47	146	2966	37:44	3	1.573	A BB	35264.	14.782 NG	2.04
48	106	2145	27:18	3	1.138	A BB	14420.	9.417 NG	1.30
49	NOT FOUND								

RIC
12/08/94 10:52:00
SAMPLE: 20 PPB VOA STD
CONDS.: EPA METHOD 8240
RANGE: G 1,3151 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: CV120820 #1
CALI: CV120820 #3

SCANS 200 TO 3151

59008.



Quantitation Report File: CV120820

Data: CV120820.TI
12/08/94 10:52:00
Sample: 20 PPB VOA STD
Conds.: EPA METHOD 8240
Formula: 5ML Instrument: FINN Weight: 0.000
Submitted by: PTL Analyst: UC Acct. No.: 5-PT

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

No	Name
1	CI01 BROMOCHLOROMETHANE **INT. STD. **
2	CI10 1,4-DIFLUOROBENZENE **INT. STD. **
3	CI20 CHLOROBENZENE-D5 **INT. STD. **
4	CS15 1,2-DICHLOROETHANE-D4 **S. STD. **
5	CS05 TOLUENE-D8 **S. STD. **
6	CS10 4-BROMOFLUOROBENZENE **S. STD. **
7	C010 CHLOROMETHANE **
8	C015 BROMOMETHANE
9	C020 VINYL CHLORIDE *
10	C025 CHLOROETHANE
11	C030 METHYLENE CHLORIDE
12	C251 ACROLIN
13	C035 ACETONE
14	C252 ACRYLONITRILE
15	C040 CARBON DISULFIDE
16	C045 1,1-DICHLOROETHENE *
17	C050 1,1-DICHLOROETHANE **
18	C055 TRANS-1,2-DICHLOROETHENE
19	C000 TRICHLOROFLUOROMETHANE
20	C060 CHLOROFORM *
21	C065 1,2-DICHLOROETHANE
22	C110 2-BUTANONE
23	C115 1,1,1-TRICHLOROETHANE
24	C120 CARBON TETRACHLORIDE
25	C125 VINYL ACETATE
26	C130 BROMO DICHLOROMETHANE
27	C140 1,2-DICHLOROPROPANE *
28	C145 TRANS-1,3 DICHLOROPROPENE
29	C150 TRICHLOROETHENE
30	C155 DIBROMOCHLOROMETHANE
31	C160 1,1,2-TRICHLOROETHANE
32	C165 BENZENE
33	C143 CIS-1,3-DICHLOROPROPENE
34	C175 2-CHLOROETHYL VINYL ETHER
35	C180 BROMOFORM **
36	C220 TETRACHLOROETHENE
37	C210 2-HEXANONE
38	C205 4-METHYL 2-PENTANONE
39	C225 1,1,2,2-TETRACHLOROETHANE **
40	C230 TOLUENE *
41	C235 CHLOROBENZENE **
42	C240 ETHYL BENZENE *
43	C245 STYRENE
44	C250 M+P-XYLENES
45	C253 1,3-DICHLOROBENZENE
46	C254 1,4-DICHLOROBENZENE
47	C255 1,2-DICHLOROBENZENE

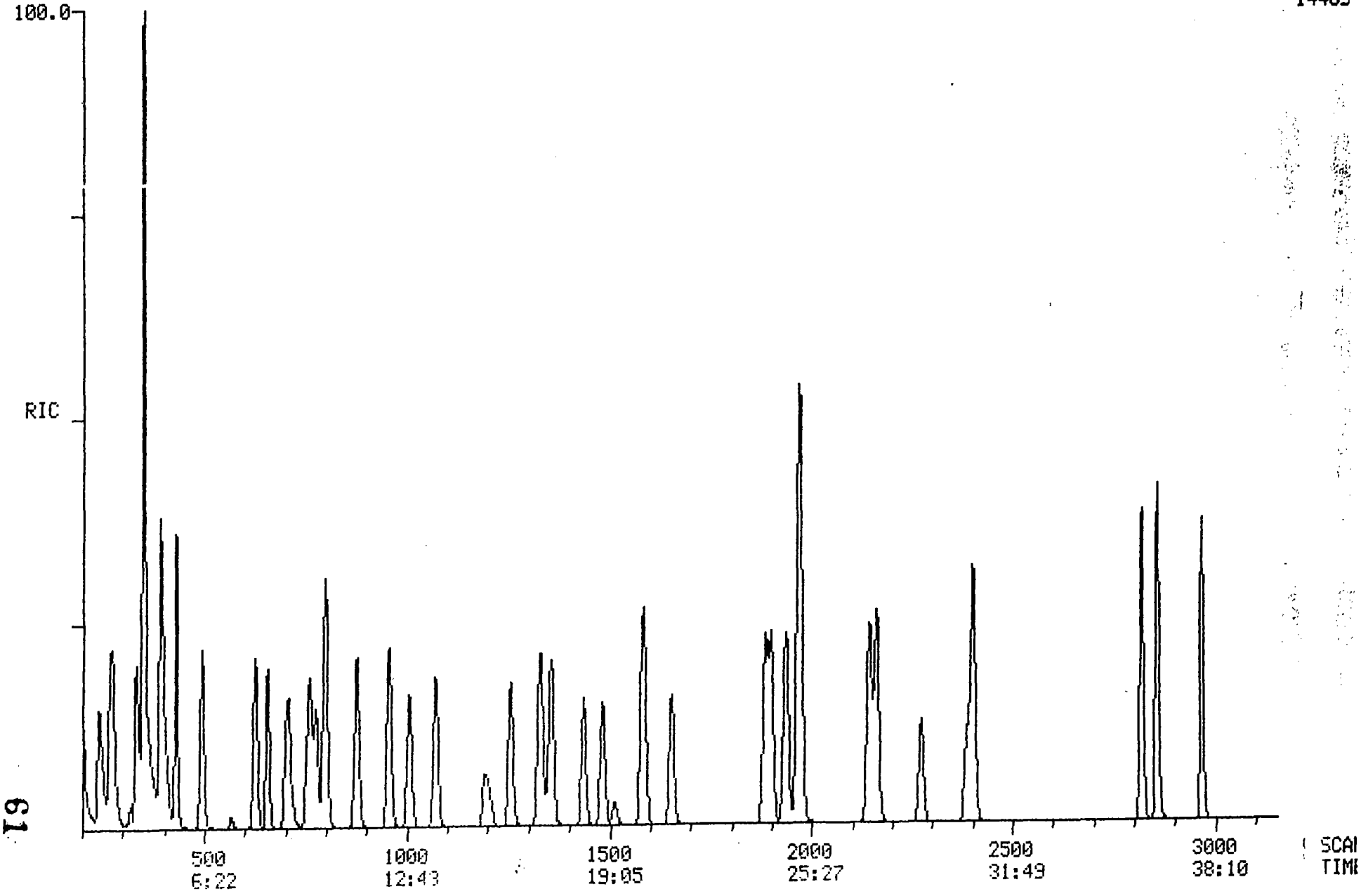
No	Name
48	C250 O-XYLENE
49	BENZENE-D6 **S. STD. **

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	656	8:21	1	1.000	A BB	35637.	50.000 NG	4.54
2	114	877	11:10	2	1.000	A BB	161287.	50.000 NG	4.54
3	117	1884	23:58	3	1.000	A BB	117730.	50.000 NG	4.54
4	65	776	9:52	1	1.183	A BB	79748.	52.408 NG	4.76
5	98	1329	16:55	3	0.705	A BB	149010.	55.780 NG	5.07
6	174	2403	30:35	3	1.275	A BB	70520.	43.090 NG	3.92
7	50	193	2:27	1	0.294	A BB	19108.	22.458 NG	2.04
8	94	242	3:05	1	0.369	A BB	26356.	20.621 NG	1.87
9	62	201	2:33	1	0.306	A BB	24252.	17.065 NG	1.55
10	64	252	3:12	1	0.384	A BB	13872.	20.326 NG	1.85
11	49	391	4:59	1	0.596	M XX	44892.	22.948 NG	2.09
12	56	311	3:57	1	0.474	A BB	250.	9.993 NG	0.91
13	43	319	4:04	1	0.486	A BB	8754.	21.246 NG	1.93
14	53	408	5:11	1	0.622	A BB	3874.	17.190 NG	1.56
15	76	396	5:02	1	0.604	A BB	69361.	19.757 NG	1.80
16	96	333	4:14	1	0.508	A BB	18690.	19.765 NG	1.80
17	63	493	6:16	1	0.752	A BB	38250.	21.104 NG	1.92
18	61	430	5:28	1	0.655	A BB	50541.	21.998 NG	2.00
19	101	272	3:28	1	0.415	A BB	67703.	19.635 NG	1.78
20	83	626	7:58	1	0.954	A BB	44885.	20.276 NG	1.84
21	62	798	10:09	1	1.216	A BB	37219.	19.828 NG	1.80
22	43	568	7:14	2	0.648	A BB	6038.	16.815 NG	1.53
23	97	705	8:58	2	0.804	A BB	37338.	18.327 NG	1.67
24	117	759	9:39	2	0.865	A BB	39570.	19.860 NG	1.80
25	43	496	6:19	2	0.566	A BB	42805.	17.761 NG	1.61
26	83	1072	13:38	2	1.222	A BB	40501.	18.701 NG	1.70
27	63	1006	12:48	2	1.147	A BB	21138.	19.439 NG	1.77
28	75	1435	18:16	2	1.636	A BB	24680.	16.598 NG	1.51
29	95	956	12:10	2	1.090	A BB	25526.	18.955 NG	1.72
30	129	1654	21:03	2	1.886	A BB	30326.	16.735 NG	1.52
31	97	1484	18:53	2	1.692	A BB	17857.	18.102 NG	1.65
32	78	798	10:09	2	0.910	A BB	53029.	19.174 NG	1.74
33	75	1256	15:59	2	1.432	A BB	30082.	18.516 NG	1.68
34	63	1192	15:10	2	1.359	A BB	8684.	16.758 NG	1.52
35	173	2274	28:56	2	2.593	A BB	19431.	15.013 NG	1.36
36	166	1583	20:09	3	0.840	A BB	29899.	21.271 NG	1.93
37	43	1201	15:17	3	0.637	A BB	21725.	21.079 NG	1.92
38	43	1513	19:15	3	0.803	A BB	10500.	20.220 NG	1.84
39	83	2388	30:23	3	1.268	A BB	20592.	17.716 NG	1.61
40	91	1355	17:14	3	0.719	A BB	61822.	21.500 NG	1.95
41	112	1900	24:11	3	1.008	A BB	45463.	20.374 NG	1.85
42	106	1936	24:38	3	1.028	A BB	23548.	21.280 NG	1.93
43	104	2163	27:31	3	1.148	A BB	45140.	18.394 NG	1.67
44	106	1969	25:03	3	1.045	A BB	56332.	18.652 NG	1.70
45	146	2821	35:54	3	1.497	M XX	48216.	18.273 NG	1.66
46	146	2859	36:23	3	1.518	M XX	49427.	18.225 NG	1.66
47	146	2968	37:46	3	1.575	A BB	41735.	17.940 NG	1.63
48	106	2144	27:17	3	1.138	A BB	28661.	19.193 NG	1.74
49	NOT FOUND								

RIC
12/08/94 11:49:00
SAMPLE: 50 PPB VOA STD
CONDS.: EPA METHOD 8240
RANGE: G 1,3151 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: CV120850 #1 SCANS 200 TO 3151
CALI: CALTAB #3

14489



61

Quantitation Report File: CV120850

Data: CV120850.TI
12/08/94 11:49:00
Sample: 50 PPB VOA STD
Conds.: EPA METHOD 8240
Formula: 5ML Instrument: FINN Weight: 0.000
Submitted by: PTL Analyst: UC Acct. No.: 5-PT

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

No	Name
1	CI01 BROMOCHLOROMETHANE **INT. STD. **
2	CI10 1,4-DIFLUOROBENZENE **INT. STD. **
3	CI20 CHLOROBENZENE-D5 **INT. STD. **
4	CS15 1,2-DICHLOROETHANE-D4 **S. STD. **
5	CS05 TOLUENE-D8 **S. STD. **
6	CS10 4-BROMOFLUOROBENZENE **S. STD. **
7	C010 CHLOROMETHANE **
8	C015 BROMOMETHANE
9	C020 VINYL CHLORIDE *
10	C025 CHLOROETHANE
11	C030 METHYLENE CHLORIDE
12	C251 ACROLIN
13	C035 ACETONE
14	C252 ACRYLONITRILE
15	C040 CARBON DISULFIDE
16	C045 1,1-DICHLOROETHENE *
17	C050 1,1-DICHLOROETHANE **
18	C055 TRANS-1,2-DICHLOROETHENE
19	C000 TRICHLOROFLUOROMETHANE
20	C060 CHLOROFORM *
21	C065 1,2-DICHLOROETHANE
22	C110 2-BUTANONE
23	C115 1,1,1-TRICHLOROETHANE
24	C120 CARBON TETRACHLORIDE
25	C125 VINYL ACETATE
26	C130 BROMO DICHLOROMETHANE
27	C140 1,2-DICHLOROPROPANE *
28	C145 TRANS-1,3 DICHLOROPROPENE
29	C150 TRICHLOROETHENE
30	C155 DIBROMOCHLOROMETHANE
31	C160 1,1,2-TRICHLOROETHANE
32	C165 BENZENE
33	C143 CIS-1,3-DICHLOROPROPENE
34	C175 2-CHLOROETHYL VINYL ETHER
35	C180 BROMOFORM **
36	C220 TETRACHLOROETHENE
37	C210 2-HEXANONE
38	C205 4-METHYL 2-PENTANONE
39	C225 1,1,2,2-TETRACHLOROETHANE **
40	C230 TOLUENE *
41	C235 CHLOROBENZENE **
42	C240 ETHYL BENZENE *
43	C245 STYRENE
44	C250 M+P-XYLENES
45	C253 1,3-DICHLOROBENZENE
46	C254 1,4-DICHLOROBENZENE
47	C255 1,2-DICHLOROBENZENE

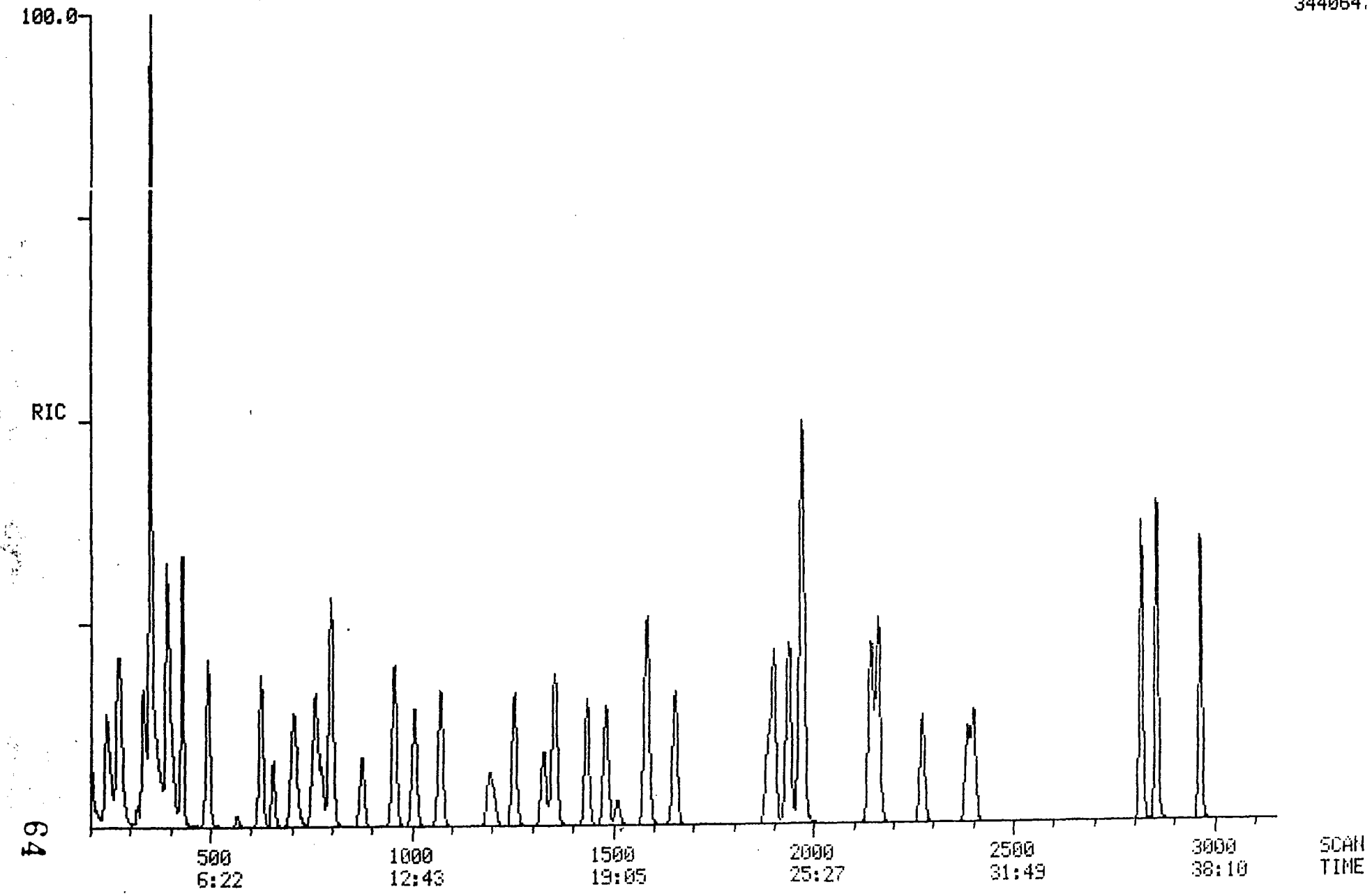
No	Name
48	C250 O-XYLENE
49	BENZENE-D6 **S. STD. **

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	655	8:20	1	1.000	A BB	33732.	50.000 NG	2.08
2	114	875	11:08	2	1.000	A BB	140192.	50.000 NG	2.08
3	117	1883	23:58	3	1.000	A BB	115912.	50.000 NG	2.08
4	65	775	9:52	1	1.183	A BB	72019.	50.000 NG	2.08
5	98	1329	16:55	3	0.706	A BB	131506.	50.000 NG	2.08
6	174	2401	30:33	3	1.275	A BB	80565.	50.000 NG	2.08
7	50	191	2:26	1	0.292	A BB	40267.	50.000 NG	2.08
8	94	242	3:05	1	0.369	A BB	60491.	50.000 NG	2.08
9	62	201	2:33	1	0.307	A BB	67263.	50.000 NG	2.08
10	64	251	3:12	1	0.383	A BB	32299.	50.000 NG	2.08
11	49	390	4:58	1	0.595	A BB	95078.	51.345 NG	2.14
12	56	311	3:57	1	0.475	A BB	1184.	50.000 NG	2.08
13	43	319	4:04	1	0.487	A BB	19500.	50.000 NG	2.08
14	53	408	5:11	1	0.623	A BB	10666.	50.000 NG	2.08
15	76	394	5:01	1	0.602	A BB	166151.	50.000 NG	2.08
16	96	332	4:13	1	0.507	A BB	44754.	50.000 NG	2.08
17	63	493	6:16	1	0.753	A BB	85782.	50.000 NG	2.08
18	61	429	5:28	1	0.655	A BB	108736.	50.000 NG	2.08
19	101	272	3:28	1	0.415	A BB	163186.	50.000 NG	2.08
20	83	625	7:57	1	0.954	A BB	104772.	50.000 NG	2.08
21	62	797	10:08	1	1.217	A BB	88839.	50.000 NG	2.08
22	43	565	7:11	2	0.646	A BB	15606.	50.000 NG	2.08
23	97	706	8:59	2	0.807	A BB	88541.	50.000 NG	2.08
24	117	759	9:39	2	0.867	A BB	86592.	50.000 NG	2.08
25	43	495	6:18	2	0.566	A BB	104738.	50.000 NG	2.08
26	83	1071	13:38	2	1.224	A BB	94121.	50.000 NG	2.08
27	63	1005	12:47	2	1.149	A BB	47258.	50.000 NG	2.08
28	75	1434	18:15	2	1.639	A BB	64621.	50.000 NG	2.08
29	95	954	12:08	2	1.090	A BB	58524.	50.000 NG	2.08
30	129	1653	21:02	2	1.889	A BB	78755.	50.000 NG	2.08
31	97	1482	18:51	2	1.694	A BB	42872.	50.000 NG	2.08
32	78	797	10:08	2	0.911	A BB	120198.	50.000 NG	2.08
33	75	1255	15:58	2	1.434	A BB	70607.	50.000 NG	2.08
34	63	1192	15:10	2	1.362	A BB	22521.	50.000 NG	2.08
35	173	2272	28:55	2	2.597	A BB	56250.	50.000 NG	2.08
36	166	1582	20:08	3	0.840	A BB	69194.	50.000 NG	2.08
37	43	1198	15:15	3	0.636	A BB	50735.	50.000 NG	2.08
38	43	1511	19:14	3	0.802	A BB	25563.	50.000 NG	2.08
39	83	2387	30:22	3	1.268	A BB	57219.	50.000 NG	2.08
40	91	1354	17:14	3	0.719	A BB	141554.	50.000 NG	2.08
41	112	1898	24:09	3	1.008	A BB	109846.	50.000 NG	2.08
42	106	1935	24:37	3	1.028	A BB	54475.	50.000 NG	2.08
43	104	2162	27:31	3	1.148	A BB	120811.	50.000 NG	2.08
44	106	1969	25:03	3	1.046	A BB	148675.	50.000 NG	2.08
45	146	2819	35:52	3	1.497	M XX	129890.	50.000 NG	2.08
46	146	2857	36:21	3	1.517	M XX	133511.	50.000 NG	2.08
47	146	2965	37:44	3	1.575	A BB	114521.	50.000 NG	2.08
48	106	2143	27:16	3	1.138	A BB	73511.	50.000 NG	2.08
49	NOT FOUND								

RIC
12/08/94 12:40:00
SAMPLE: 100 PPB VOA STD
CONDS.: EPA METHOD 8240
RANGE: G 1,3151 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: CV1208100 #1
CALI: CV1208100 #3

SCANS 200 TO 3151



Quantitation Report File: CV1208100

Data: CV1208100.TI
12/08/94 12:40:00
Sample: 100 PPB VOA STD
Conds.: EPA METHOD 8240
Formula: 5ML Instrument: FINN Weight: 0.000
Submitted by: PTL Analyst: UC Acct. No.: 5-PT

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

No	Name
1	CI01 BROMOCHLOROMETHANE **INT. STD. **
2	CI10 1,4-DIFLUOROBENZENE **INT. STD. **
3	CI20 CHLOROBENZENE-D5 **INT. STD. **
4	CS15 1,2-DICHLOROETHANE-D4 **S. STD. **
5	CS05 TOLUENE-D8 **S. STD. **
6	CS10 4-BROMOFLUOROBENZENE **S. STD. **
7	C010 CHLOROMETHANE **
8	C015 BROMOMETHANE
9	C020 VINYL CHLORIDE *
10	C025 CHLOROETHANE
11	C030 METHYLENE CHLORIDE
12	C251 ACROLIN
13	C035 ACETONE
14	C252 ACRYLONITRILE
15	C040 CARBON DISULFIDE
16	C045 1,1-DICHLOROETHENE *
17	C050 1,1-DICHLOROETHANE **
18	C055 TRANS-1,2-DICHLOROETHENE
19	C000 TRICHLOROFLUOROMETHANE
20	C060 CHLOROFORM *
21	C065 1,2-DICHLOROETHANE
22	C110 2-BUTANONE
23	C115 1,1,1-TRICHLOROETHANE
24	C120 CARBON TETRACHLORIDE
25	C125 VINYL ACETATE
26	C130 BROMO DICHLOROMETHANE
27	C140 1,2-DICHLOROPROPANE *
28	C145 TRANS-1,3 DICHLOROPROPENE
29	C150 TRICHLOROETHENE
30	C155 DIBROMOCHLOROMETHANE
31	C160 1,1,2-TRICHLOROETHANE
32	C165 BENZENE
33	C143 CIS-1,3-DICHLOROPROPENE
34	C175 2-CHLOROETHYL VINYL ETHER
35	C180 BROMOFORM **
36	C220 TETRACHLOROETHENE
37	C210 2-HEXANONE
38	C205 4-METHYL 2-PENTANONE
39	C225 1,1,2,2-TETRACHLOROETHANE **
40	C230 TOLUENE *
41	C235 CHLOROBENZENE **
42	C240 ETHYL BENZENE *
43	C245 STYRENE
44	C250 M+P-XYLENES
45	C253 1,3-DICHLOROBENZENE
46	C254 1,4-DICHLOROBENZENE
47	C255 1,2-DICHLOROBENZENE

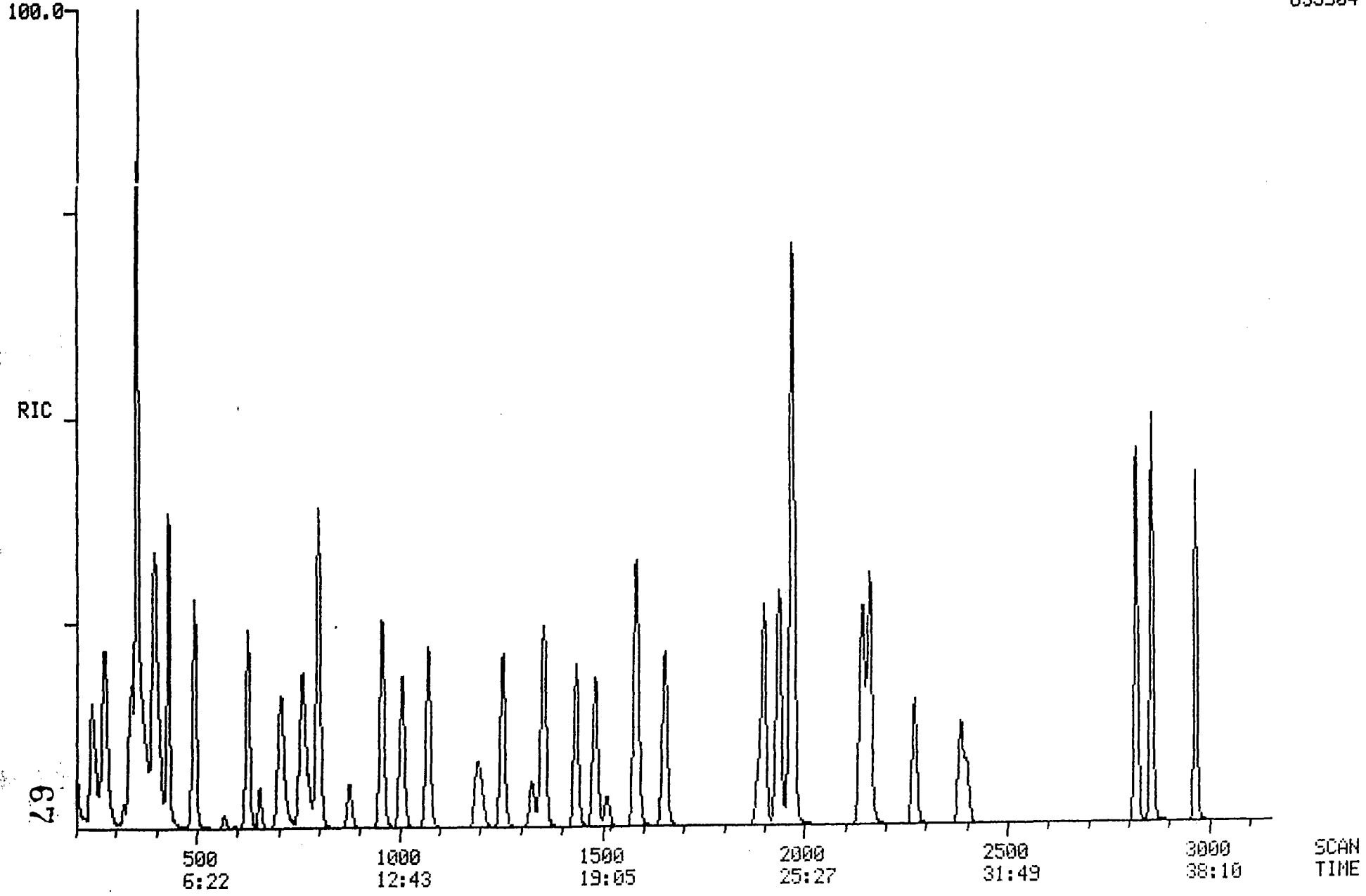
No	Name
48	C250 O-XYLENE
49	BENZENE-D6 **S. STD. **

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	655	8:20	1	1.000	A BB	33932.	50.000 NG	1.04
2	114	875	11:08	2	1.000	A BB	144625.	50.000 NG	1.04
3	117	1883	23:58	3	1.000	A BB	118818.	50.000 NG	1.04
4	65	775	9:52	1	1.183	A BB	73578.	50.782 NG	1.05
5	98	1329	16:55	3	0.706	A BB	139727.	51.827 NG	1.07
6	174	2401	30:33	3	1.275	A BB	85100.	51.523 NG	1.07
7	50	192	2:27	1	0.293	A BB	87748.	108.317 NG	2.25
8	94	240	3:03	1	0.366	A BB	146241.	120.168 NG	2.49
9	62	200	2:33	1	0.305	A BB	150680.	111.350 NG	2.31
10	64	250	3:11	1	0.382	A BB	78802.	121.269 NG	2.51
11	49	390	4:58	1	0.595	A BB	203138.	106.199 NG	2.20
12	56	311	3:57	1	0.475	A BB	2074.	87.070 NG	1.80
13	43	319	4:04	1	0.487	A BB	45271.	115.394 NG	2.39
14	53	408	5:11	1	0.623	A BB	22046.	102.742 NG	2.13
15	76	395	5:02	1	0.603	A BB	349256.	104.484 NG	2.17
16	96	332	4:13	1	0.507	A BB	85440.	94.894 NG	1.97
17	63	492	6:16	1	0.751	A BB	181179.	104.983 NG	2.18
18	61	430	5:28	1	0.656	A BB	276064.	126.196 NG	2.62
19	101	270	3:26	1	0.412	A BB	384064.	116.985 NG	2.42
20	83	625	7:57	1	0.954	A BB	211770.	100.468 NG	2.08
21	62	798	10:09	1	1.218	A BB	189426.	105.986 NG	2.20
22	43	566	7:12	2	0.647	A BB	34623.	107.528 NG	2.23
23	97	705	8:58	2	0.806	A BB	175050.	95.822 NG	1.99
24	117	759	9:39	2	0.867	A BB	178783.	100.068 NG	2.07
25	43	495	6:18	2	0.566	A BB	242210.	112.081 NG	2.32
26	83	1071	13:38	2	1.224	A BB	206918.	106.551 NG	2.21
27	63	1005	12:47	2	1.149	A BB	98092.	100.602 NG	2.09
28	75	1434	18:15	2	1.639	A BB	145962.	109.474 NG	2.27
29	95	954	12:08	2	1.090	A BB	118616.	98.232 NG	2.04
30	129	1653	21:02	2	1.889	A BB	182516.	112.324 NG	2.33
31	97	1482	18:51	2	1.694	A BB	95261.	107.693 NG	2.23
32	78	797	10:08	2	0.911	A BB	249215.	100.490 NG	2.08
33	75	1255	15:58	2	1.434	A BB	152930.	104.976 NG	2.18
34	63	1191	15:09	2	1.361	A BB	47862.	103.001 NG	2.14
35	173	2272	28:55	2	2.597	A BB	140081.	120.700 NG	2.50
36	166	1582	20:08	3	0.840	A BB	159867.	112.695 NG	2.34
37	43	1199	15:15	3	0.637	A BB	115286.	110.837 NG	2.30
38	43	1512	19:14	3	0.803	A BB	61070.	116.529 NG	2.42
39	83	2386	30:22	3	1.267	A BB	129438.	110.341 NG	2.29
40	91	1355	17:14	3	0.720	A BB	300596.	103.580 NG	2.15
41	112	1899	24:10	3	1.008	A BB	242976.	107.893 NG	2.24
42	106	1936	24:38	3	1.028	A BB	123750.	110.806 NG	2.30
43	104	2161	27:30	3	1.148	A BB	278326.	112.374 NG	2.33
44	106	1969	25:03	3	1.046	A BB	327074.	107.306 NG	2.22
45	146	2817	35:51	3	1.496	M XX	286918.	107.745 NG	2.23
46	146	2855	36:20	3	1.516	M XX	291518.	106.504 NG	2.21
47	146	2963	37:42	3	1.574	A BB	248918.	106.019 NG	2.20
48	106	2143	27:16	3	1.138	A BB	153020.	101.534 NG	2.10
49	NOT FOUND								

RIC
12/08/94 13:30:00
SAMPLE: 200 PBB VOA STD
CONDS.: EPA METHOD 8240
RANGE: G 1,3151 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: CV1208200 #1 SCANS 200 TO 3151
CALI: CALTAB #3

635904



Quantitation Report File: CV1208200

Data: CV1208200.TI
12/08/94 13:30:00
Sample: 200 PBB VOA STD
Conds.: EPA METHOD 8240
Formula: 5ML Instrument: FINN Weight: 0.000
Submitted by: PTL Analyst: UC Acct. No.: 5-PT

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

No	Name
1	CI01 BROMOCHLOROMETHANE **INT. STD. **
2	CI10 1,4-DIFLUOROBENZENE **INT. STD. **
3	CI20 CHLOROBENZENE-D5 **INT. STD. **
4	CS15 1,2-DICHLOROETHANE-D4 **S. STD. **
5	CS05 TOLUENE-D8 **S. STD. **
6	CS10 4-BROMOFLUOROBENZENE **S. STD. **
7	C010 CHLOROMETHANE **
8	C015 BROMOMETHANE
9	C020 VINYL CHLORIDE *
10	C025 CHLOROETHANE
11	C030 METHYLENE CHLORIDE
12	C251 ACROLIN
13	C035 ACETONE
14	C252 ACRYLONITRILE
15	C040 CARBON DISULFIDE
16	C045 1,1-DICHLOROETHENE *
17	C050 1,1-DICHLOROETHANE **
18	C055 TRANS-1,2-DICHLOROETHENE
19	C000 TRICHLOROFLUOROMETHANE
20	C060 CHLOROFORM *
21	C065 1,2-DICHLOROETHANE
22	C110 2-BUTANONE
23	C115 1,1,1-TRICHLOROETHANE
24	C120 CARBON TETRACHLORIDE
25	C125 VINYL ACETATE
26	C130 BROMO DICHLOROMETHANE
27	C140 1,2-DICHLOROPROPANE *
28	C145 TRANS-1,3 DICHLOROPROPENE
29	C150 TRICHLOROETHENE
30	C155 DIBROMOCHLOROMETHANE
31	C160 1,1,2-TRICHLOROETHANE
32	C165 BENZENE
33	C143 CIS-1,3-DICHLOROPROPENE
34	C175 2-CHLOROETHYL VINYL ETHER
35	C180 BROMOFORM **
36	C220 TETRACHLOROETHENE
37	C210 2-HEXANONE
38	C205 4-METHYL 2-PENTANONE
39	C225 1,1,2,2-TETRACHLOROETHANE **
40	C230 TOLUENE *
41	C235 CHLOROBENZENE **
42	C240 ETHYL BENZENE *
43	C245 STYRENE
44	C250 M+P-XYLENES
45	C253 1,3-DICHLOROBENZENE
46	C254 1,4-DICHLOROBENZENE
47	C255 1,2-DICHLOROBENZENE

No	Name
48	C250 O-XYLENE
49	BENZENE-D6 **S. STD. **

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	655	8:20	1	1.000	A BB	37421.	50.000 NG	0.53
2	114	875	11:08	2	1.000	A BB	157860.	50.000 NG	0.53
3	117	1884	23:58	3	1.000	A BB	134882.	50.000 NG	0.53
4	65	775	9:52	1	1.183	A BB	74426.	46.578 NG	0.49
5	98	1327	16:53	3	0.704	A BB	155061.	50.664 NG	0.53
6	174	2401	30:33	3	1.274	A BB	83626.	44.600 NG	0.47
7	50	191	2:26	1	0.292	A BB	191744.	214.622 NG	2.26
8	94	239	3:02	1	0.365	A BB	323582.	241.101 NG	2.54
9	62	198	2:31	1	0.302	A BB	308587.	206.778 NG	2.18
10	64	249	3:10	1	0.380	A BB	177944.	248.308 NG	2.62
11	49	391	4:59	1	0.597	M XX	414164.	201.614 NG	2.12
12	56	311	3:57	1	0.475	A BB	6979.	265.670 NG	2.80
13	43	319	4:04	1	0.487	A BB	95289.	220.243 NG	2.32
14	53	408	5:11	1	0.623	A BB	48823.	206.313 NG	2.17
15	76	395	5:02	1	0.603	A BB	788863.	213.994 NG	2.26
16	96	337	4:17	1	0.515	A BB	213919.	215.437 NG	2.27
17	63	492	6:16	1	0.751	A BB	451771.	237.369 NG	2.50
18	61	429	5:28	1	0.655	A BB	589574.	244.381 NG	2.58
19	101	271	3:27	1	0.414	A BB	708404.	195.659 NG	2.06
20	83	625	7:57	1	0.954	A BB	500869.	215.468 NG	2.27
21	62	797	10:08	1	1.217	A BB	474347.	240.656 NG	2.54
22	43	567	7:13	2	0.648	A BB	73119.	208.047 NG	2.19
23	97	704	8:57	2	0.805	A BB	379664.	190.404 NG	2.01
24	117	758	9:39	2	0.866	A BB	385896.	197.885 NG	2.09
25	43	496	6:19	2	0.567	A BB	587490.	249.067 NG	2.62
26	83	1071	13:38	2	1.224	A BB	503884.	237.720 NG	2.51
27	63	1006	12:48	2	1.150	A BB	217053.	203.945 NG	2.15
28	75	1435	18:16	2	1.640	A BB	345088.	237.125 NG	2.50
29	95	954	12:08	2	1.090	A BB	274623.	208.363 NG	2.20
30	129	1653	21:02	2	1.889	A BB	433743.	244.555 NG	2.58
31	97	1482	18:51	2	1.694	A BB	206736.	214.124 NG	2.26
32	78	797	10:08	2	0.911	A BB	613964.	226.812 NG	2.39
33	75	1254	15:57	2	1.433	A BB	369099.	232.121 NG	2.45
34	63	1190	15:09	2	1.360	A BB	106176.	209.339 NG	2.21
35	173	2272	28:55	2	2.597	A BB	291693.	230.265 NG	2.43
36	166	1582	20:08	3	0.840	A BB	371052.	230.414 NG	2.43
37	43	1199	15:15	3	0.636	A BB	253472.	214.668 NG	2.26
38	43	1511	19:14	3	0.802	A BB	121777.	204.690 NG	2.16
39	83	2385	30:21	3	1.266	A BB	247758.	186.051 NG	1.96
40	91	1355	17:14	3	0.719	A BB	716285.	217.425 NG	2.29
41	112	1898	24:09	3	1.007	A BB	561340.	219.577 NG	2.31
42	106	1936	24:38	3	1.028	A BB	272733.	215.121 NG	2.27
43	104	2161	27:30	3	1.147	A BB	591633.	210.423 NG	2.22
44	106	1969	25:03	3	1.045	A BB	820620.	237.164 NG	2.50
45	146	2819	35:52	3	1.496	M XX	632098.	209.099 NG	2.20
46	146	2857	36:21	3	1.516	M XX	640025.	205.979 NG	2.17
47	146	2966	37:44	3	1.574	A BB	540046.	202.623 NG	2.14
48	106	2143	27:16	3	1.137	A BB	320172.	187.144 NG	1.97
49	NOT FOUND								

DATAFILE: CV01216 Calibration Check

Instrument Identifier: FINN
Calibration Date: 12/08/94
Standard File: CV01216
Date: 12/16/94 Time: 13:58:00
25% D
MIN RF FOR SPCC (**) = 0.300

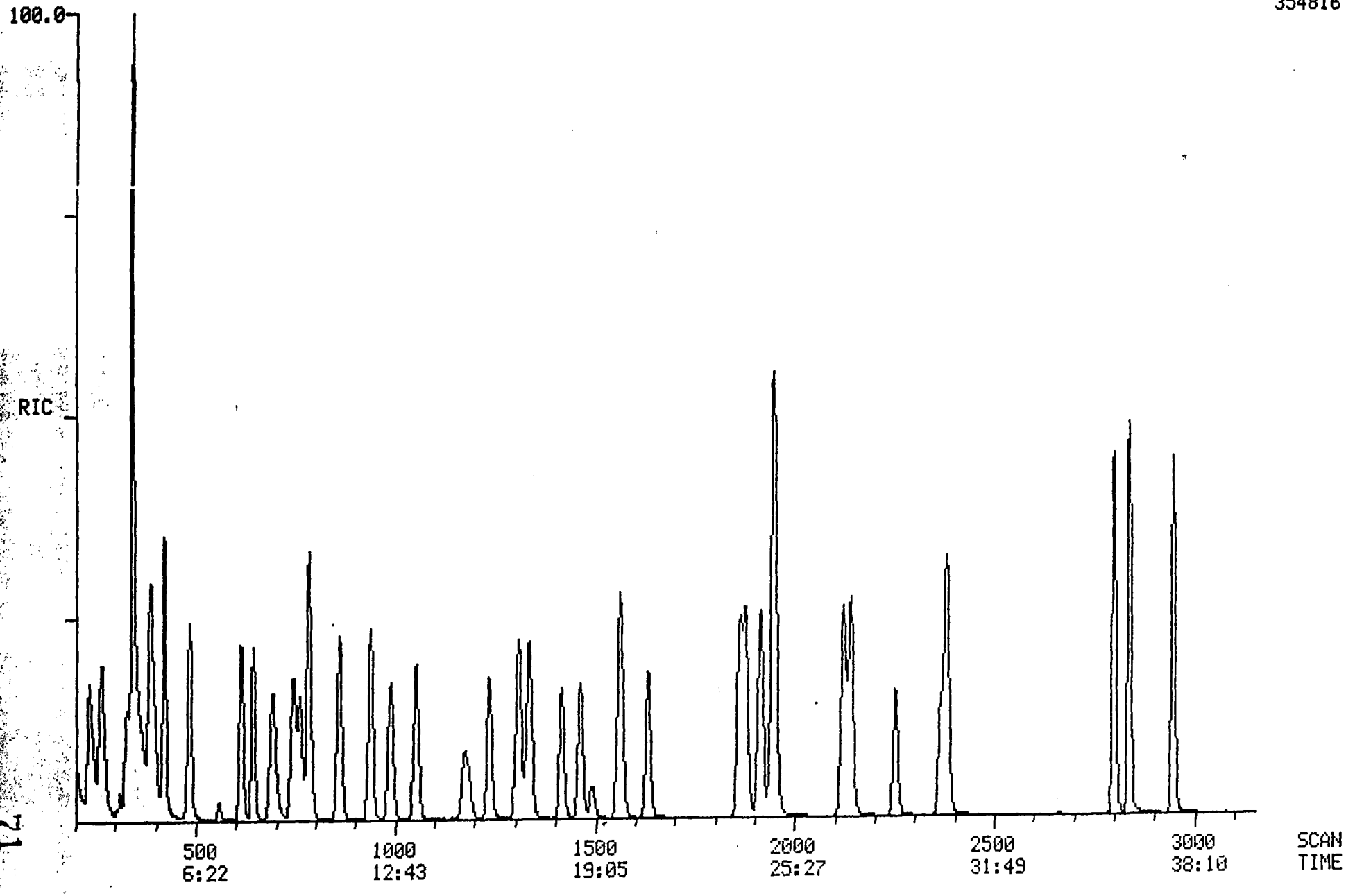
	Compound	Mean RF(I)	RF(0)	% D
CS15	1,2-DICHLOROETHANE-D4 *	2.121	1.959	0.000
CS05	TOLUENE-D8 **S. STD. **	1.185	1.150	0.000
CS10	4-BROMOFLUOROBENZENE **	0.650	0.731	0.000
C010	CHLOROMETHANE **	1.279	1.438	12.396
C015	BROMOMETHANE	1.908	1.774	6.988
C020	VINYL CHLORIDE *	1.939	1.867	3.718
C025	CHLOROETHANE	1.028	1.019	0.923
C030	METHYLENE CHLORIDE	2.976	2.064	30.653
C251	ACROLIN	0.028	0.053	89.520
C035	ACETONE	0.723	0.524	27.582
C252	ACRYLONITRILE	0.310	0.306	1.373
C040	CARBON DISULFIDE	4.864	3.887	20.076
C045	1,1-DICHLOROETHENE *	1.297	1.096	15.521
C050	1,1-DICHLOROETHANE **	2.650	2.527	4.652
C055	TRANS-1,2-DICHLOROETHEN	3.607	2.983	17.300
C000	TRICHLOROFLUOROMETHA	4.763	3.515	26.198
C060	CHLOROFORM *	3.096	2.893	6.549
C065	1,2-DICHLOROETHANE	2.709	2.327	14.120
C110	2-BUTANONE	0.113	0.127	11.629
C115	1,1,1-TRICHLOROETHANE	0.590	0.551	6.712
C120	CARBON TETRACHLORIDE	0.598	0.588	1.603
C125	VINYL ACETATE	0.764	0.765	0.126
C130	BROMO DICHLOROMETHANE	0.682	0.682	0.113
C140	1,2-DICHLOROPROPANE	0.324	0.336	3.879
C145	TRANS-1,3 DICHLOROPROPE	0.450	0.443	1.642
C150	TRICHLOROETHENE	0.404	0.404	0.079
C155	DIBROMOCHLOROMETHANE	0.571	0.590	3.320
C160	1,1,2-TRICHLOROETHANE	0.303	0.290	4.010
C165	BENZENE	0.862	0.826	4.081
C143	CIS-1,3-DICHLOROPROPENE	0.501	0.488	2.582
C175	2-CHLOROETHYL VINYL ETH	0.149	0.169	13.484
C180	BROMOFORM **	0.432	0.470	8.737
C220	TETRACHLOROETHENE	0.645	0.691	7.103
C210	2-HEXANONE	0.464	0.485	4.543
C205	4-METHYL 2-PENTANONE	0.250	0.238	4.670
C225	1,1,2,2-TETRACHLOROETHA	0.663	0.503	24.223
C230	TOLUENE *	1.272	1.193	6.243
C235	CHLOROBENZENE **	0.997	0.980	1.700
C240	ETHYL BENZENE *	0.497	0.459	7.596
C245	STYRENE	1.053	0.989	6.145
C250	M+P-XYLENES	1.325	1.284	3.093
C253	1,3-DICHLOROBENZENE	1.169	1.314	12.432
C254	1,4-DICHLOROBENZENE	1.219	1.343	10.198
C255	1,2-DICHLOROBENZENE	1.077	1.181	9.619
C250	O-XYLENE	0.616	0.602	2.257

RIC
12/16/94 13:58:00
SAMPLE: 50 PPB VOA STD
CONDS.: EPA METHOD 8240
RANGE: G 1,3151 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: CV01216 #1
CALI: CALTAB #3

SCANS 200 TO 3151

354816



Quantitation Report File: CV01216

Data: CV01216.TI
12/16/94 13:58:00
Sample: 50 PPB VOA STD
Conds.: EPA METHOD 8240
Formula: 5ML Instrument: FINN Weight: 0.000
Submitted by: PTL Analyst: UC Acct. No.:

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

No	Name
1	CI01 BROMOCHLOROMETHANE **INT. STD. **
2	CI10 1,4-DIFLUOROBENZENE **INT. STD. **
3	CI20 CHLOROBENZENE-D5 **INT. STD. **
4	CS15 1,2-DICHLOROETHANE-D4 **S. STD. **
5	CS05 TOLUENE-D8 **S. STD. **
6	CS10 4-BROMOFLUOROBENZENE **S. STD. **
7	C010 CHLOROMETHANE **
8	C015 BROMOMETHANE
9	C020 VINYL CHLORIDE *
10	C025 CHLOROETHANE
11	C030 METHYLENE CHLORIDE
12	C251 ACROLIN
13	C035 ACETONE
14	C252 ACRYLONITRILE
15	C040 CARBON DISULFIDE
16	C045 1,1-DICHLOROETHENE *
17	C050 1,1-DICHLOROETHANE **
18	C055 TRANS-1,2-DICHLOROETHENE
19	C000 TRICHLOROFLUOROMETHANE
20	C060 CHLOROFORM *
21	C065 1,2-DICHLOROETHANE
22	C110 2-BUTANONE
23	C115 1,1,1-TRICHLOROETHANE
24	C120 CARBON TETRACHLORIDE
25	C125 VINYL ACETATE
26	C130 BROMO DICHLOROMETHANE
27	C140 1,2-DICHLOROPROPANE *
28	C145 TRANS-1,3 DICHLOROPROPENE
29	C150 TRICHLOROETHENE
30	C155 DIBROMOCHLOROMETHANE
31	C160 1,1,2-TRICHLOROETHANE
32	C165 BENZENE
33	C143 CIS-1,3-DICHLOROPROPENE
34	C175 2-CHLOROETHYL VINYL ETHER
35	C180 BROMOFORM **
36	C220 TETRACHLOROETHENE
37	C210 2-HEXANONE
38	C205 4-METHYL 2-PENTANONE
39	C225 1,1,2,2-TETRACHLOROETHANE **
40	C230 TOLUENE *
41	C235 CHLOROBENZENE **
42	C240 ETHYL BENZENE *
43	C245 STYRENE
44	C250 M+P-XYLENES
45	C253 1,3-DICHLOROBENZENE
46	C254 1,4-DICHLOROBENZENE
47	C255 1,2-DICHLOROBENZENE

No	Name
48	C250 O-XYLENE
49	BENZENE-D6 **S. STD. **

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	642	8:10	1	1.000	A BB	98026.	50.000 NG	2.07
2	114	859	10:56	2	1.000	A BB	393366.	50.000 NG	2.07
3	117	1862	23:42	3	1.000	A BB	318962.	50.000 NG	2.07
4	65	760	9:40	1	1.184	A BB	191993.	50.653 NG	2.09
5	98	1308	16:39	3	0.702	A BB	366556.	50.000 NG	2.07
6	174	2381	30:18	3	1.279	A BB	233095.	50.000 NG	2.07
7	50	188	2:24	1	0.293	A BB	140911.	50.653 NG	2.09
8	94	234	2:59	1	0.364	A BB	173883.	50.653 NG	2.09
9	62	194	2:28	1	0.302	A BB	182946.	50.653 NG	2.09
10	64	244	3:06	1	0.380	A BB	99801.	50.653 NG	2.09
11	49	382	4:52	1	0.595	M XX	202251.	55.339 NG	2.29
12	56	304	3:52	1	0.474	M XX	5173.	55.697 NG	2.30
13	43	311	3:57	1	0.484	M XX	51309.	51.728 NG	2.14
14	53	398	5:04	1	0.620	A BB	29955.	50.653 NG	2.09
15	76	387	4:55	1	0.603	A BB	381012.	50.653 NG	2.09
16	96	330	4:12	1	0.514	A BB	107369.	50.653 NG	2.09
17	63	482	6:08	1	0.751	A BB	247682.	50.653 NG	2.09
18	61	420	5:21	1	0.654	A BB	292360.	50.653 NG	2.09
19	101	265	3:22	1	0.413	M XX	344497.	50.513 NG	2.09
20	83	612	7:47	1	0.953	A BB	283566.	50.653 NG	2.09
21	62	782	9:57	1	1.218	A BB	228043.	50.653 NG	2.09
22	43	556	7:04	2	0.647	A BB	49621.	50.000 NG	2.07
23	97	691	8:48	2	0.804	A BB	216370.	50.000 NG	2.07
24	117	744	9:28	2	0.866	A BB	231104.	50.000 NG	2.07
25	43	485	6:10	2	0.565	A BB	300892.	50.000 NG	2.07
26	83	1052	13:23	2	1.225	A BB	268219.	50.000 NG	2.07
27	63	988	12:34	2	1.150	A BB	132084.	50.000 NG	2.07
28	75	1414	18:00	2	1.646	A BB	174042.	50.000 NG	2.07
29	95	938	11:56	2	1.092	A BB	158702.	50.000 NG	2.07
30	129	1632	20:46	2	1.900	A BB	231794.	50.000 NG	2.07
31	97	1463	18:37	2	1.703	A BB	114064.	50.000 NG	2.07
32	78	782	9:57	2	0.910	A BB	324879.	50.000 NG	2.07
33	75	1234	15:42	2	1.437	A BB	191808.	50.000 NG	2.07
34	63	1172	14:55	2	1.364	A BB	66425.	50.000 NG	2.07
35	173	2251	28:39	2	2.620	A BB	184711.	50.000 NG	2.07
36	166	1561	19:52	3	0.838	A BB	220328.	50.000 NG	2.07
37	43	1180	15:01	3	0.634	A BB	154608.	50.000 NG	2.07
38	43	1492	18:59	3	0.801	A BB	75782.	50.000 NG	2.07
39	83	2366	30:06	3	1.271	A BB	160176.	50.000 NG	2.07
40	91	1335	16:59	3	0.717	A BB	380232.	50.000 NG	2.07
41	112	1877	23:53	3	1.008	A BB	312338.	50.000 NG	2.07
42	106	1915	24:22	3	1.028	A BB	146350.	50.000 NG	2.07
43	104	2141	27:15	3	1.150	A BB	315217.	50.000 NG	2.07
44	106	1949	24:48	3	1.047	A BB	409324.	50.000 NG	2.07
45	146	2800	35:38	3	1.504	A BB	418925.	50.000 NG	2.07
46	146	2839	36:07	3	1.525	A BB	428172.	50.000 NG	2.07
47	146	2947	37:30	3	1.583	A BB	376453.	50.000 NG	2.07
48	106	2121	26:59	3	1.139	A BB	191882.	50.000 NG	2.07
49	NOT FOUND								

DATAFILE: CV01220 Calibration Check

Instrument Identifier: FINN
Calibration Date: 12/08/94
Standard File: CV01220
Date: 12/20/94 Time: 07:46.00
25% D
MIN RF FOR SPCC (**) = 0.300

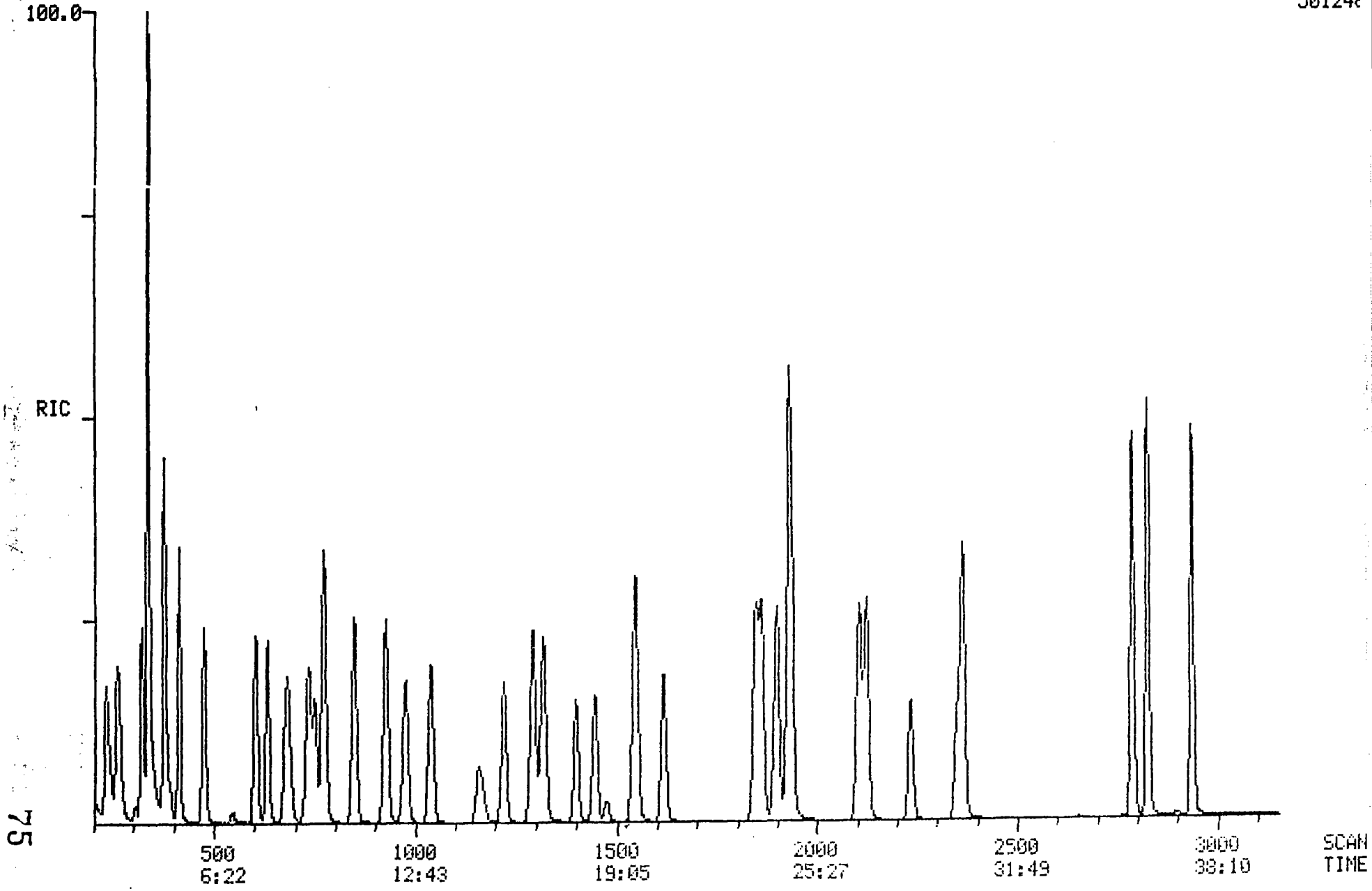
	Compound	Mean RF(I)	RF(D)	% D
CS15	1,2-DICHLOROETHANE-D4 *	2.121	2.046	0.000
CS05	TOLUENE-D8 **S. STD. **	1.185	1.122	0.000
CS10	4-BROMOFLUOROBENZENE **	0.650	0.771	0.000
C010	CHLOROMETHANE **	1.279	1.489	16.382
C015	BROMOMETHANE	1.908	1.922	0.772
C020	VINYL CHLORIDE *	1.939	1.943	0.199
C025	CHLOROETHANE	1.028	1.013	1.511
C030	METHYLENE CHLORIDE	2.976	2.507	15.762
C251	ACROLIN	0.028	0.049	75.613
C035	ACETONE	0.723	0.364	49.749
C252	ACRYLONITRILE	0.310	0.228	26.438
C040	CARBON DISULFIDE	4.864	4.254	12.527
C045	1,1-DICHLOROETHENE *	1.297	1.297	0.021
C050	1,1-DICHLOROETHANE **	2.650	2.817	6.285
C055	TRANS-1,2-DICHLOROETHEN	3.607	3.073	14.798
C000	TRICHLOROFLUOROMETHA	4.763	3.598	24.446
C060	CHLOROFORM *	3.096	3.335	7.719
C065	1,2-DICHLOROETHANE	2.709	2.404	11.273
C110	2-BUTANONE	0.113	0.080	29.858
C115	1,1,1-TRICHLOROETHANE	0.590	0.576	2.451
C120	CARBON TETRACHLORIDE	0.598	0.607	1.562
C125	VINYL ACETATE	0.764	0.577	24.516
C130	BROMO DICHLOROMETHANE	0.682	0.640	6.153
C140	1,2-DICHLOROPROPANE	0.324	0.318	1.738
C145	TRANS-1,3 DICHLOROPROPE	0.450	0.394	12.525
C150	TRICHLOROETHENE	0.404	0.385	4.863
C155	DIBROMOCHLOROMETHANE	0.571	0.552	3.246
C160	1,1,2-TRICHLOROETHANE	0.303	0.264	12.686
C165	BENZENE	0.862	0.813	5.686
C143	CIS-1,3-DICHLOROPROPENE	0.501	0.474	5.465
C175	2-CHLOROETHYL VINYL ETH	0.149	0.133	10.930
C180	BROMOFORM **	0.432	0.418	3.276
C220	TETRACHLOROETHENE	0.645	0.696	7.845
C210	2-HEXANONE	0.464	0.339	27.035
C205	4-METHYL 2-PENTANONE	0.250	0.142	43.160
C225	1,1,2,2-TETRACHLOROETHA	0.663	0.428	35.407
C230	TOLUENE *	1.272	1.142	10.258
C235	CHLOROBENZENE **	0.997	0.973	2.367
C240	ETHYL BENZENE *	0.497	0.441	11.305
C245	STYRENE	1.053	0.941	10.689
C250	M+P-XYLENES	1.325	1.138	14.118
C253	1,3-DICHLOROBENZENE	1.169	1.347	15.293
C254	1,4-DICHLOROBENZENE	1.219	1.395	14.437
C255	1,2-DICHLOROBENZENE	1.077	1.259	16.925
C250	O-XYLENE	0.616	0.561	8.876

RIC
12/20/94 7:46:00
SAMPLE: 50 PPB VOA STD
CONDS.: EPA METHOD 8240
RANGE: G 1,3151 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: CVO1220 #1
CALI: CALTAB #3

SCANS 200 TO 3151

501248



12/20/94 A1

Quantitation Report File: CV01220

Data: CV01220.TI
12/20/94 7:46:00
Sample: 50 PPB VOA STD
Conds.: EPA METHOD 8240
Formula: 5ML Instrument: FINN Weight: 0.000
Submitted by: PTL Analyst: UC Acct. No.:

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

No	Name
1	CI01 BROMOCHLOROMETHANE **INT. STD. **
2	CI10 1,4-DIFLUOROBENZENE **INT. STD. **
3	CI20 CHLOROBENZENE-D5 **INT. STD. **
4	CS15 1,2-DICHLOROETHANE-D4 **S. STD. **
5	CS05 TOLUENE-D8 **S. STD. **
6	CS10 4-BROMOFLUOROBENZENE **S. STD. **
7	C010 CHLOROMETHANE **
8	C015 BROMOMETHANE
9	C020 VINYL CHLORIDE *
10	C025 CHLOROETHANE
11	C030 METHYLENE CHLORIDE
12	C251 ACROLIN
13	C035 ACETONE
14	C252 ACRYLONITRILE
15	C040 CARBON DISULFIDE
16	C045 1,1-DICHLOROETHENE *
17	C050 1,1-DICHLOROETHANE **
18	C055 TRANS-1,2-DICHLOROETHENE
19	C000 TRICHLOROFLUOROMETHANE
20	C060 CHLOROFORM *
21	C065 1,2-DICHLOROETHANE
22	C110 2-BUTANONE
23	C115 1,1,1-TRICHLOROETHANE
24	C120 CARBON TETRACHLORIDE
25	C125 VINYL ACETATE
26	C130 BROMO DICHLOROMETHANE
27	C140 1,2-DICHLOROPROPANE *
28	C145 TRANS-1,3 DICHLOROPROPENE
29	C150 TRICHLOROETHENE
30	C155 DIBROMOCHLOROMETHANE
31	C160 1,1,2-TRICHLOROETHANE
32	C165 BENZENE
33	C143 CIS-1,3-DICHLOROPROPENE
34	C175 2-CHLOROETHYL VINYL ETHER
35	C180 BROMOFORM **
36	C220 TETRACHLOROETHENE
37	C210 2-HEXANONE
38	C205 4-METHYL 2-PENTANONE
39	C225 1,1,2,2-TETRACHLOROETHANE **
40	C230 TOLUENE *
41	C235 CHLOROBENZENE **
42	C240 ETHYL BENZENE *
43	C245 STYRENE
44	C250 M+P-XYLENES
45	C253 1,3-DICHLOROBENZENE
46	C254 1,4-DICHLOROBENZENE
47	C255 1,2-DICHLOROBENZENE

No	Name
48	C250 O-XYLENE
49	BENZENE-D6 **S. STD. **

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	631	8:02	1	1.000	A BB	138986.	50.000 NG	2.08
2	114	845	10:45	2	1.000	A BB	629111.	50.000 NG	2.08
3	117	1844	23:28	3	1.000	A BB	504872.	50.000 NG	2.08
4	65	748	9:31	1	1.185	A BB	272170.	50.000 NG	2.08
5	98	1292	16:26	3	0.701	A BB	566244.	50.000 NG	2.08
6	174	2363	30:04	3	1.281	A BB	389022.	50.000 NG	2.08
7	50	182	2:19	1	0.288	A BB	198039.	50.000 NG	2.08
8	94	230	2:56	1	0.365	A BB	255702.	50.000 NG	2.08
9	62	191	2:26	1	0.303	A BB	258410.	50.000 NG	2.08
10	64	239	3:02	1	0.379	A BB	134652.	50.000 NG	2.08
11	49	375	4:46	1	0.594	A BB	333469.	50.000 NG	2.08
12	56	298	3:48	1	0.472	A BB	6501.	50.000 NG	2.08
13	43	305	3:53	1	0.483	M XX	48175.	50.000 NG	2.08
14	53	391	4:59	1	0.620	A BB	30307.	50.000 NG	2.08
15	76	376	4:47	1	0.596	A BB	565982.	50.000 NG	2.08
16	96	319	4:04	1	0.506	A BB	172551.	50.000 NG	2.08
17	63	473	6:01	1	0.750	A BB	374739.	50.000 NG	2.08
18	61	413	5:15	1	0.655	A BB	408822.	50.000 NG	2.08
19	101	259	3:18	1	0.410	A BB	478678.	50.000 NG	2.08
20	83	601	7:39	1	0.952	A BB	443648.	50.000 NG	2.08
21	62	769	9:47	1	1.219	A BB	319777.	50.000 NG	2.08
22	43	545	6:56	2	0.645	A BB	49748.	50.000 NG	2.08
23	97	679	8:38	2	0.804	A BB	361864.	50.000 NG	2.08
24	117	732	9:19	2	0.866	A BB	381504.	50.000 NG	2.08
25	43	476	6:03	2	0.563	A BB	362705.	50.000 NG	2.08
26	83	1038	13:12	2	1.228	A BB	402098.	50.000 NG	2.08
27	63	973	12:23	2	1.151	A BB	199803.	50.000 NG	2.08
28	75	1398	17:47	2	1.654	A BB	247513.	50.000 NG	2.08
29	95	924	11:45	2	1.093	A BB	241645.	50.000 NG	2.08
30	129	1614	20:32	2	1.910	A BB	347128.	50.000 NG	2.08
31	97	1445	18:23	2	1.710	A BB	165907.	50.000 NG	2.08
32	78	770	9:48	2	0.911	A BB	510882.	50.000 NG	2.08
33	75	1219	15:31	2	1.443	A BB	297671.	50.000 NG	2.08
34	63	1157	14:43	2	1.369	A BB	83311.	50.000 NG	2.08
35	173	2233	28:25	2	2.643	A BB	262738.	50.000 NG	2.08
36	166	1544	19:39	3	0.837	A BB	351164.	50.000 NG	2.08
37	43	1165	14:49	3	0.632	A BB	170726.	50.000 NG	2.08
38	43	1474	18:45	3	0.799	A BB	71419.	50.000 NG	2.08
39	83	2349	29:53	3	1.274	A BB	216077.	50.000 NG	2.08
40	91	1317	16:45	3	0.714	A BB	576068.	50.000 NG	2.08
41	112	1859	23:39	3	1.008	A BB	491030.	50.000 NG	2.08
42	106	1897	24:08	3	1.029	A BB	222344.	50.000 NG	2.08
43	104	2123	27:01	3	1.151	A BB	474776.	50.000 NG	2.08
44	106	1931	24:34	3	1.047	A BB	574160.	50.000 NG	2.08
45	146	2786	35:27	3	1.511	M XX	679979.	50.000 NG	2.08
46	146	2825	35:57	3	1.532	M XX	703816.	50.000 NG	2.08
47	146	2935	37:21	3	1.592	A BB	635607.	50.000 NG	2.08
48	106	2104	26:46	3	1.141	A BB	283136.	50.000 NG	2.08
49	NOT FOUND								

BROMOFLUOROBENZENE

Tuning Report
12/08/94 9:44:00 + 3:48
Instrument: FINN
#298 to #300 summed
Case Number:

Data: BFB1208A # 299
Cali: CALTAB # 3
Analyst: UC
Laboratory:

Base m/z: 95
RIC: 158976.
Acct. No.: 5791-001
Contract:

m/z	Intensity	% RA	Ion Abundance Criteria Min %	Max %	Mass	Actual	Status
50	8128.	25.1	15.0	40.0	95	25.1	PASS
75	18272.	56.4	30.0	60.0	95	56.4	PASS
95	32384.	100.0	100.0	---	---	100.0	PASS
96	2148.	6.6	5.0	9.0	95	6.6	PASS
173	0.	0.0	---	2.0	174	0.0	PASS
174	22752.	70.3	50.0	---	95	70.3	PASS
175	1500.	4.6	5.0	9.0	174	6.6	PASS
176	22304.	68.9	95.0	101.0	174	98.0	PASS
177	1354.	4.2	5.0	9.0	176	6.1	PASS

Mass List
12/08/94 9:44:00 + 3:48
Sample: 50NG BFB MASS SPECTROMETER TUNE CHECK
Conds.: EPA METHOD 8240
#298 to #300 summed

Data: BFB1208A # 299
Cali: CALTAB # 3

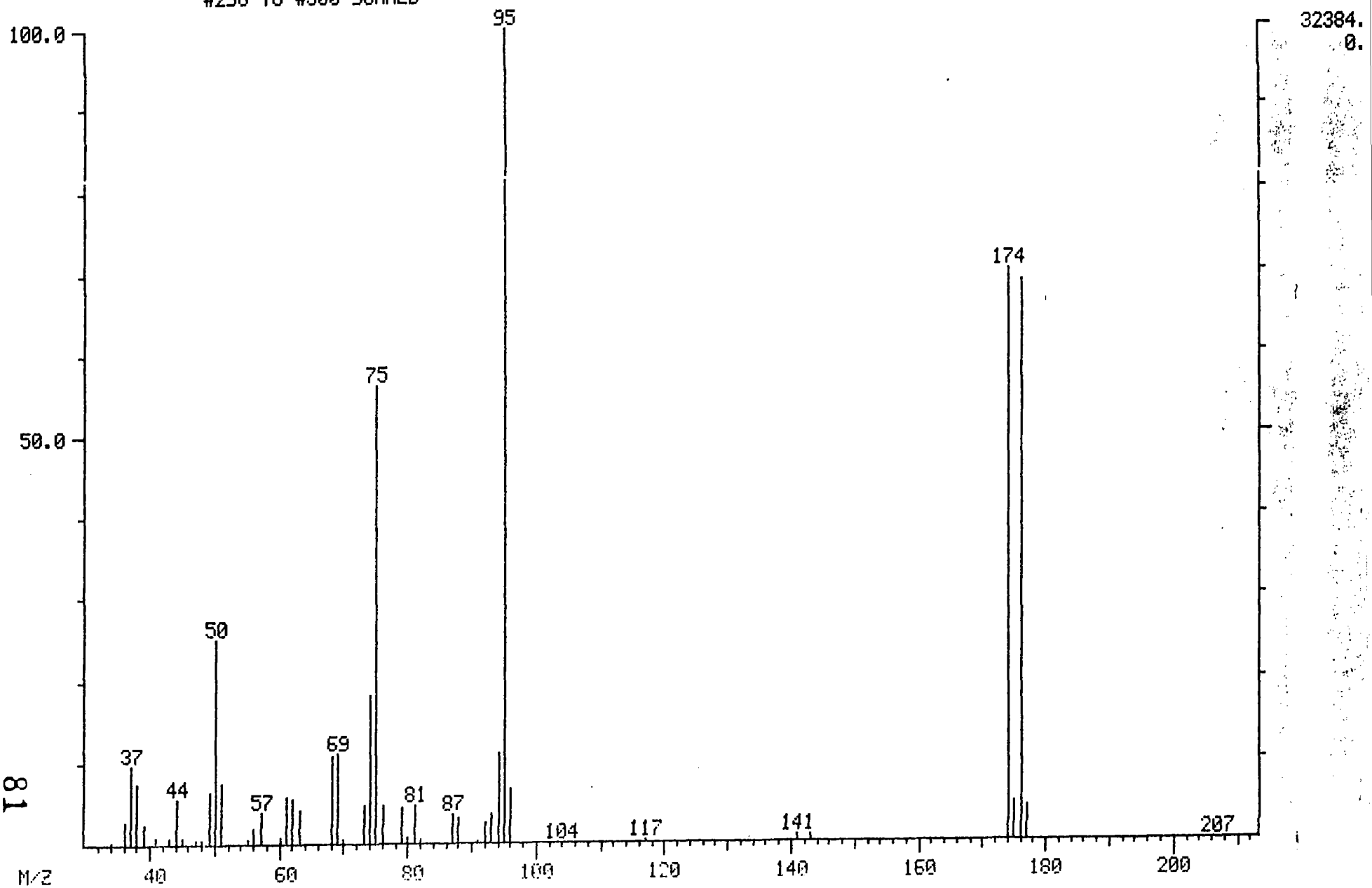
Base m/z: 95
RIC: 158976.

34	0.00	0.	Minima	Min Inten:		0.	
207			Maxima	# 0			
Mass	% RA	Inten.	Mass		% RA	Inten.	
34?	0.38	124.	207		0.05	16.	
36?	2.66	860.					
37?	9.56	3096.					
38?	7.53	2440.					
39?	2.61	844.					
40?	0.07	22.					
41?	0.96	312.					
43?	0.86	278.					
44?	5.44	1762.					
45?	0.91	294.					
47?	0.62	202.					
48?	0.51	164.					
49?	6.30	2040.					
50?	25.10	8128.					
51?	7.46	2416.					
55?	0.46	150.					
56?	2.03	658.					
57?	3.88	1258.					
60?	0.71	230.					
61?	5.81	1882.					
62?	5.45	1766.					
63?	4.25	1376.					
68?	10.80	3496.					
69	11.03	3572.					
70	0.60	194.					
72	0.06	20.					
73	4.63	1500.					
74	18.33	5936.					
75	56.42	18272.					
76	4.69	1520.					
79	4.35	1410.					
80	0.77	248.					
81	4.80	1556.					
82	0.51	164.					
87	3.58	1158.					
88	2.97	962.					
91	0.20	66.					
92	2.51	814.					
93	3.57	1156.					
94	11.18	3620.					
95	100.00	32384.					
96	6.63	2148.					
104	0.10	32.					
117	0.15	48.					
141	0.89	288.					
143	0.85	274.					
174	70.26	22752.					
175	4.63	1500.					
176	68.87	22304.					
177	4.18	1354.					

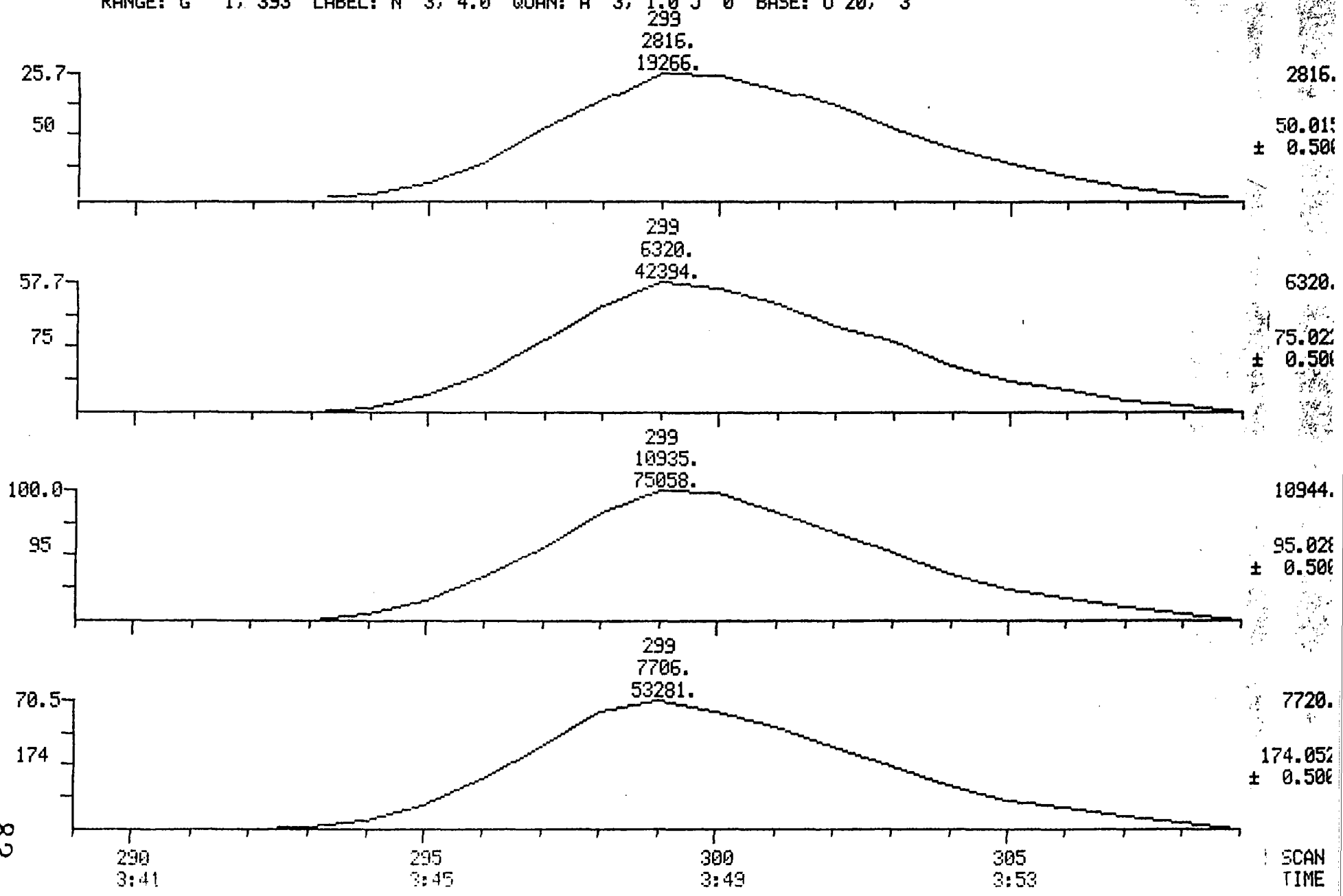
MASS SPECTRUM
12/08/94 9:44:00 + 3:48
SAMPLE: 50NG BFB MASS SPECTROMETER TUNE CHECK
CONDS.: EPA METHOD 8240
TEMP: 175 DEG. C
#298 TO #300 SUMMED

DATA: BFB1208A #299
CALI: CALTAB #3

BASE M/Z: 95
RIC: 158976.



MASS CHROMATOGRAMS DATA: BFB1208A'#298 SCANS 289 TO 309
12/08/94 9:44:00 CALI: CALTAB #3
SAMPLE: 50NG BFB MASS SPECTROMETER TUNE CHECK
CONDS.: EPA METHOD 8240
RANGE: G 1, 393 LABEL: N 3, 4.0 QUAN: A 3, 1.0 J 0 BASE: U 20, 3



BROMOFLUOROBENZENE

Tuning Report
12/16/94 13:36:00 + 3:44
Instrument: FINN
#292 to #294 summed
Case Number:

Data: BFB1216 # 293
Cali: CALTAB # 3
Analyst: UC
Laboratory:

Base m/z: 95
RIC: 126080.
Acct. No.: 5431-002
Contract:

			Ion Abundance Criteria				
m/z	Intensity	% RA	Min %	Max %	Mass	Actual	Status
50	5560.	21.8	15.0	40.0	95	21.8	PASS
75	12976.	50.9	30.0	60.0	95	50.9	PASS
95	25504.	100.0	100.0	---	---	100.0	PASS
96	1892.	7.4	5.0	9.0	95	7.4	PASS
173	0.	0.0	---	2.0	174	0.0	PASS
174	22912.	89.8	50.0	---	95	89.8	PASS
175	1456.	5.7	5.0	9.0	174	6.4	PASS
176	22400.	87.8	95.0	101.0	174	97.8	PASS
177	1378.	5.4	5.0	9.0	176	6.2	PASS

Mass List Data: BFB1216 # 293 Base m/z: 95
12/16/94 13:36:00 + 3:44 Cali: CALTAB # 3 RIC: 126080.
Sample: 50NG BFB MASS SPECTROMETER TUNE CHECK
Conds.: EPA METHOD 624
#292 to #294 summed

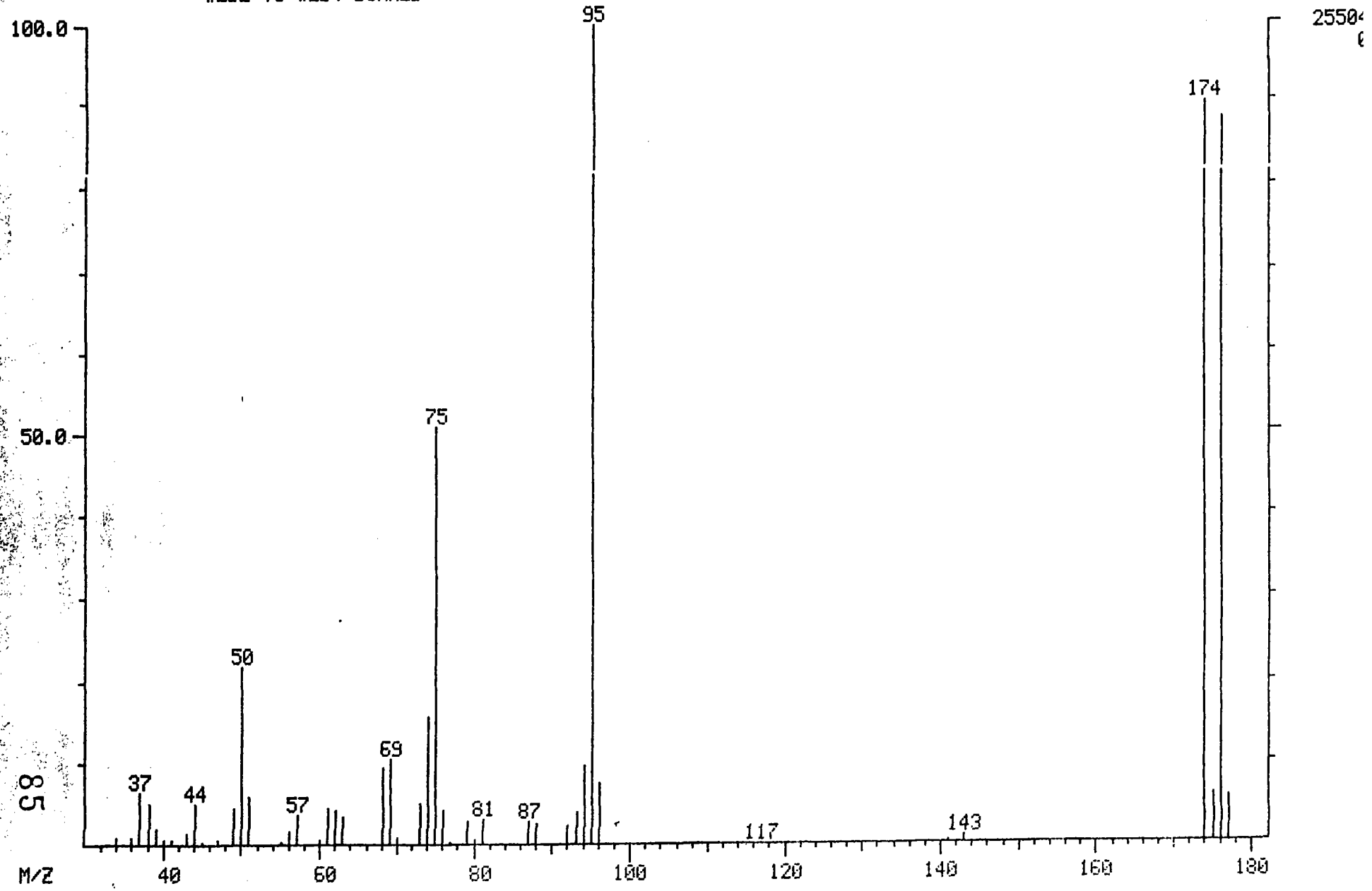
34 0.00 0. Minima Min Inten: 0.
177 Maxima # 0

Mass	% RA	Inten.
34?	0.70	178.
36?	0.81	206.
37?	6.40	1632.
38?	5.00	1274.
39?	2.06	526.
40?	0.45	116.
41?	0.49	124.
43?	1.27	324.
44?	4.97	1268.
45?	0.25	64.
47?	0.60	152.
49?	4.47	1140.
50?	21.80	5560.
51?	5.94	1514.
55?	0.18	46.
56?	1.64	418.
57?	3.47	886.
60?	0.48	122.
61?	4.38	1116.
62?	4.12	1052.
63?	3.34	852.
67?	0.05	14.
68?	9.36	2388.
69	10.37	2644.
70	0.93	236.
73	4.87	1242.
74	15.82	4036.
75	50.88	12976.
76	4.09	1042.
77	0.15	38.
79	2.79	712.
80	0.67	170.
81	2.96	754.
87	2.79	712.
88	2.56	652.
92	2.12	540.
93	3.87	986.
94	9.65	2460.
95	100.00	25504.
96	7.42	1892.
117	0.08	20.
119	0.07	18.
141	0.37	94.
143	0.96	246.
174	89.84	22912.
175	5.71	1456.
176	87.83	22400.
177	5.40	1378.

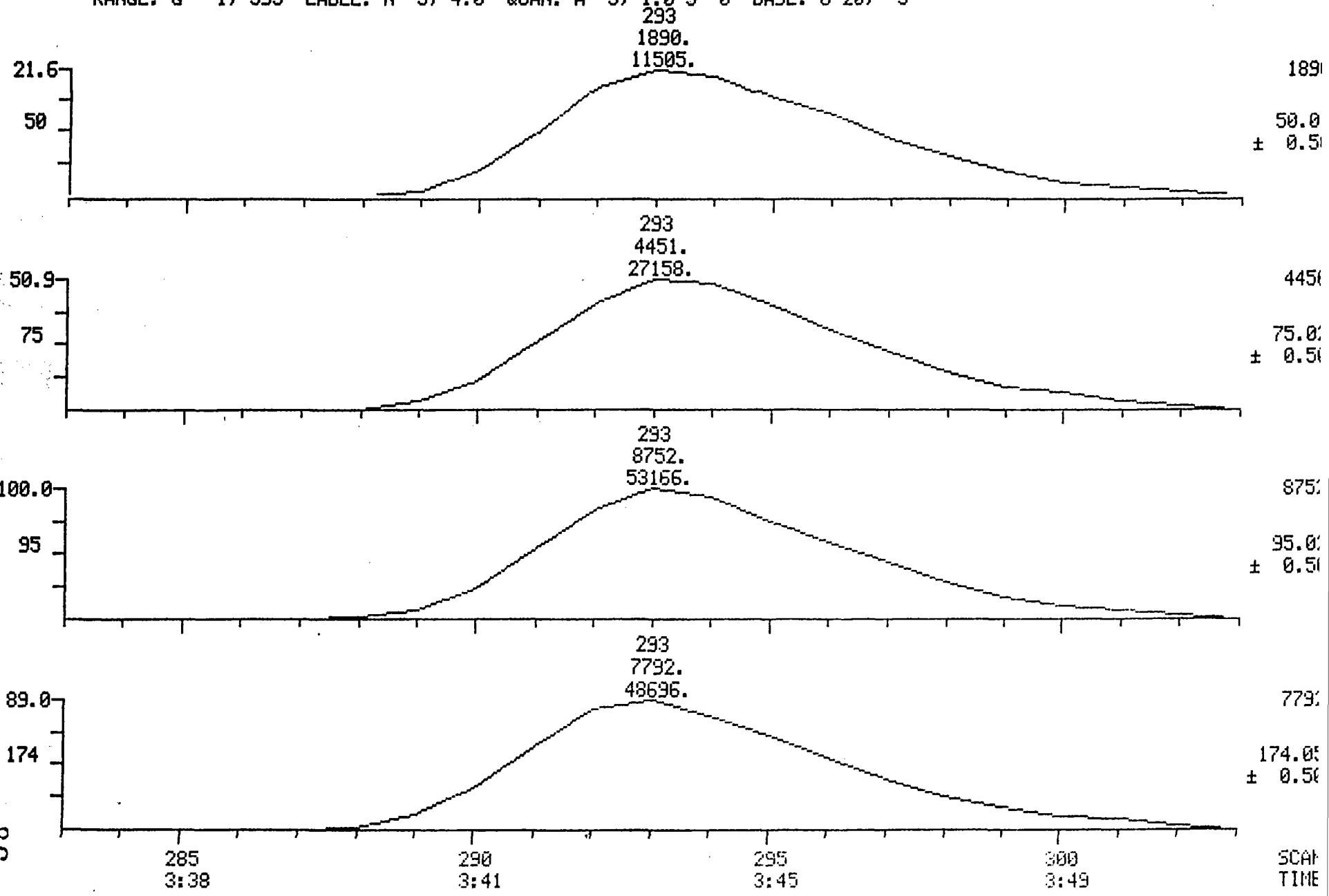
MASS SPECTRUM
12/16/94 13:36:00 + 3:44
SAMPLE: 50NG BFB MASS SPECTROMETER TUNE CHECK
CONDS.: EPA METHOD 624
TEMP: 175 DEG. C
#292 TO #294 SUMMED

DATA: BFB1216 #293
CALI: CALTAB #3

BASE M/Z: 95
RIC: 126080.



MASS CHROMATOGRAMS DATA: BFB1216 #292 SCANS 283 TO 303
12/16/94 13:36:00 CALI: CALTAB #3
SAMPLE: 50NG BFB MASS SPECTROMETER TUNE CHECK
CONDS.: EPA METHOD 624
RANGE: G 1, 393 LABEL: N 3, 4.0 QUAN: A 3, 1.0 J 0 BASE: U 20, 3



BROMOFLUOROBENZENE

Tuning Report
12/20/94 7:36:00 + 3:36
Instrument: FINN
#282 to #284 summed
Case Number:

Data: BFB1220 # 283
Cali: CALTAB # 3
Analyst: UC
Laboratory:

Base m/z: 95
RIC: 251392.
Acct. No.: 5963-001
Contract:

			Ion Abundance Criteria				
m/z	Intensity	% RA	Min %	Max %	Mass	Actual	Status
50	10032.	19.7	15.0	40.0	95	19.7	PASS
75	24672.	48.6	30.0	60.0	95	48.6	PASS
95	50816.	100.0	100.0	---	---	100.0	PASS
96	3528.	6.9	5.0	9.0	95	6.9	PASS
173	0.	0.0	---	2.0	174	0.0	PASS
174	48832.	96.1	50.0	---	95	96.1	PASS
175	3272.	6.4	5.0	9.0	174	6.7	PASS
176	48192.	94.8	95.0	101.0	174	98.7	PASS
177	2956.	5.8	5.0	9.0	176	6.1	PASS

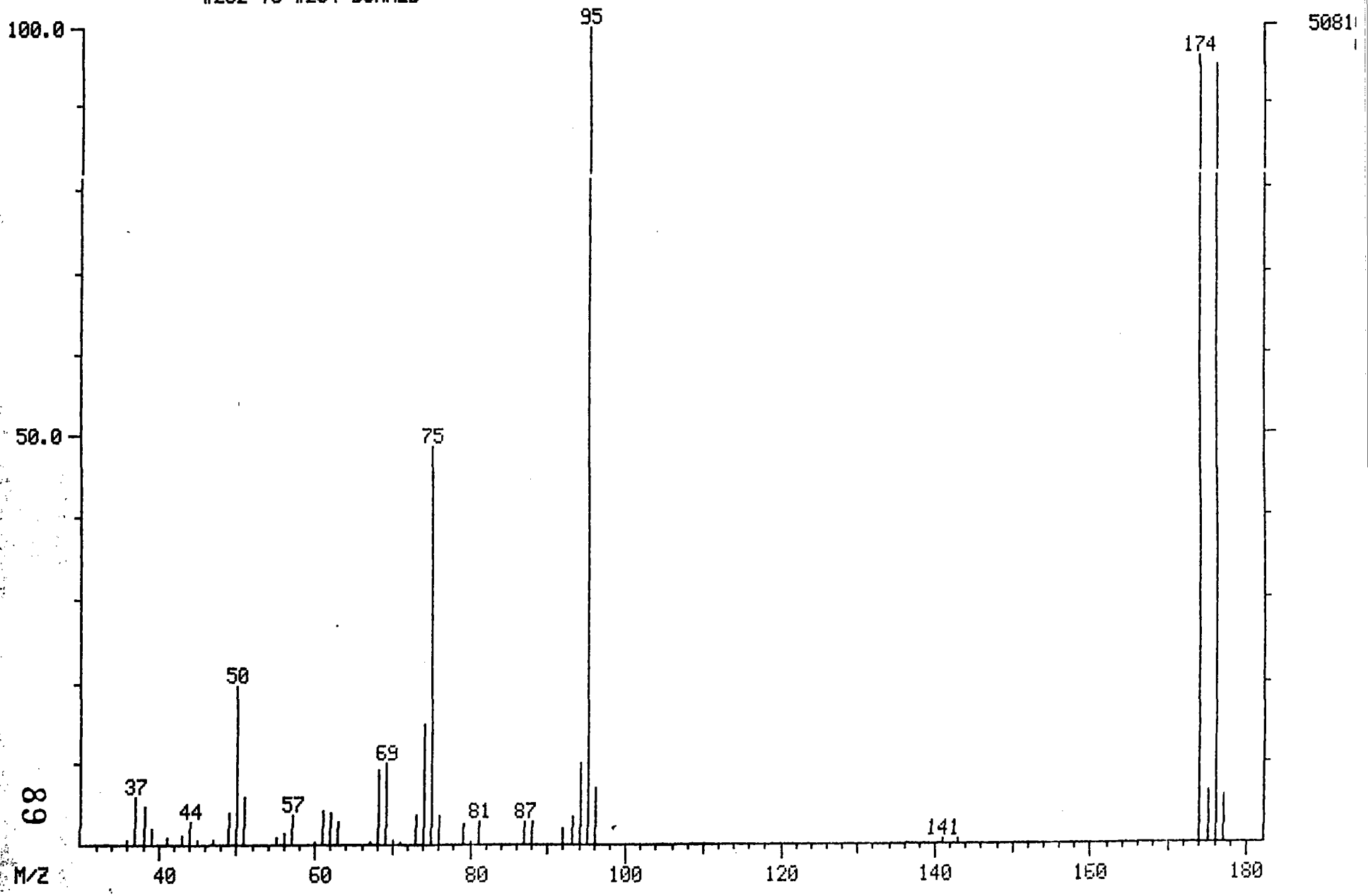
Mass List Data: BFB1220 # 283 Base m/z: 95
12/20/94 7:36:00 + 3:36 Cali: CALTAB # 3 RIC: 251392.
Sample: 50NG BFB MASS SPECTROMETER TUNE CHECK
Conds.: EPA METHOD 8240
#282 to #284 summed

36	0.00	0.	Minima	Min Inten:	0.
177			Maxima #	0	
Mass	% RA	Inten.	Mass	% RA	Inten.
36?	0.55	282.	176	94.84	48192.
37?	5.76	2928.	177	5.82	2956.
38?	4.75	2416.			
39?	1.89	958.			
40?	0.11	58.			
41?	0.92	470.			
43?	1.20	608.			
44?	2.76	1400.			
45?	0.42	212.			
47?	0.61	312.			
48?	0.04	18.			
49?	4.00	2032.			
50?	19.74	10032.			
51?	5.71	2904.			
55?	0.84	426.			
56?	1.41	718.			
57?	3.67	1864.			
60?	0.34	174.			
61?	4.06	2064.			
62?	3.76	1910.			
63?	2.77	1408.			
67?	0.17	84.			
68?	9.15	4648.			
69	9.86	5008.			
70	0.67	340.			
71	0.36	182.			
72	0.03	14.			
73	3.72	1888.			
74	14.94	7592.			
75	48.55	24672.			
76	3.64	1850.			
79	2.47	1256.			
80	0.15	74.			
81	2.72	1384.			
82	0.06	28.			
83	0.04	22.			
85	0.04	18.			
87	2.81	1428.			
88	2.77	1406.			
91	0.07	38.			
92	2.03	1030.			
93	3.43	1744.			
94	10.04	5104.			
95	100.00	50816.			
96	6.94	3528.			
97	0.07	36.			
141	0.68	346.			
143	0.60	306.			
174	96.10	48832.			
175	6.44	3272.			

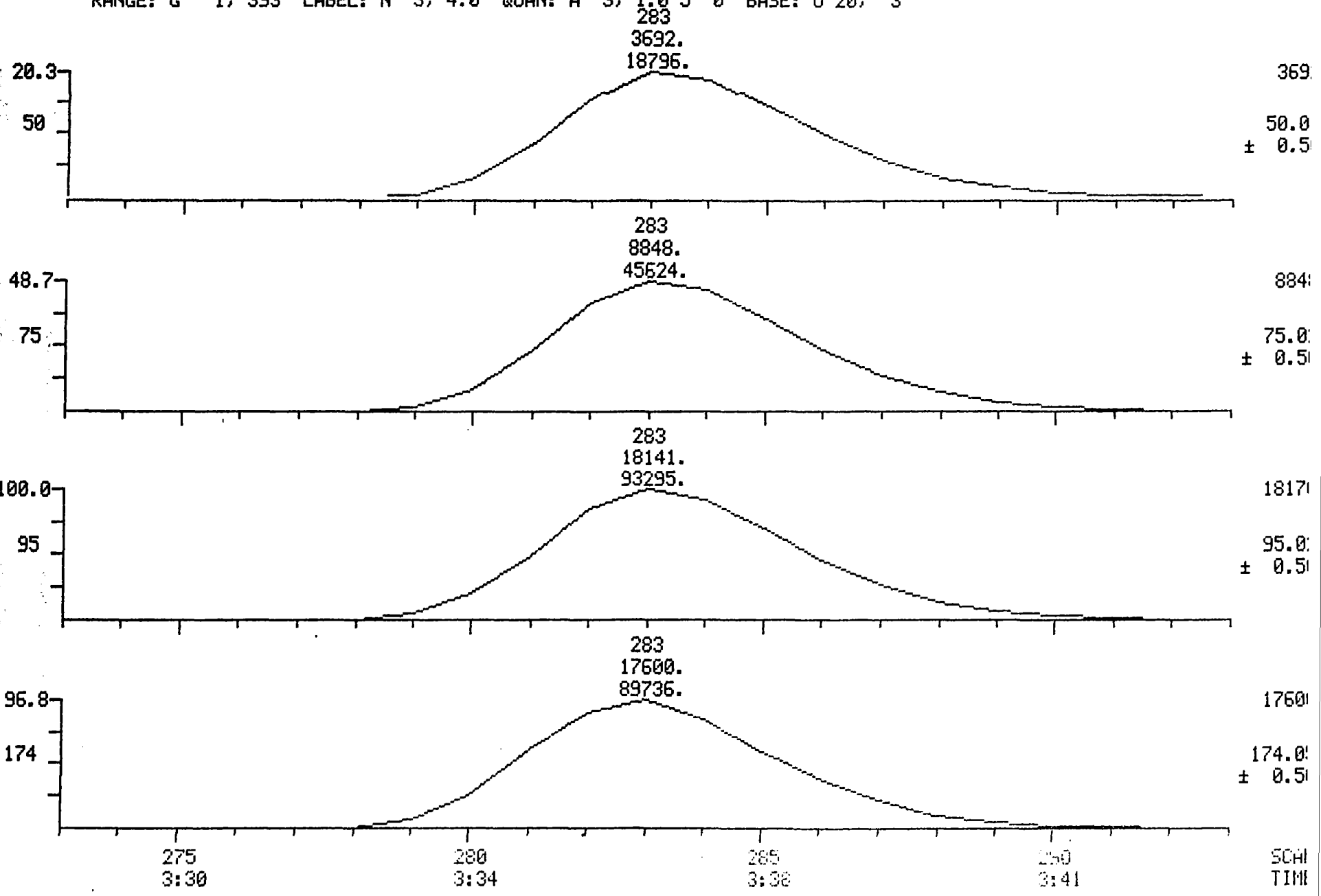
MASS SPECTRUM
12/20/94 7:36:00 + 3:36
SAMPLE: 50NG BFB MASS SPECTROMETER TUNE CHECK
CONDS.: EPA METHOD 8240
TEMP: 175 DEG. C
#282 TO #284 SUMMED

DATA: BFB1220 #283
CALI: CALTAB #3

BASE M/Z: 95
RIC: 251392.

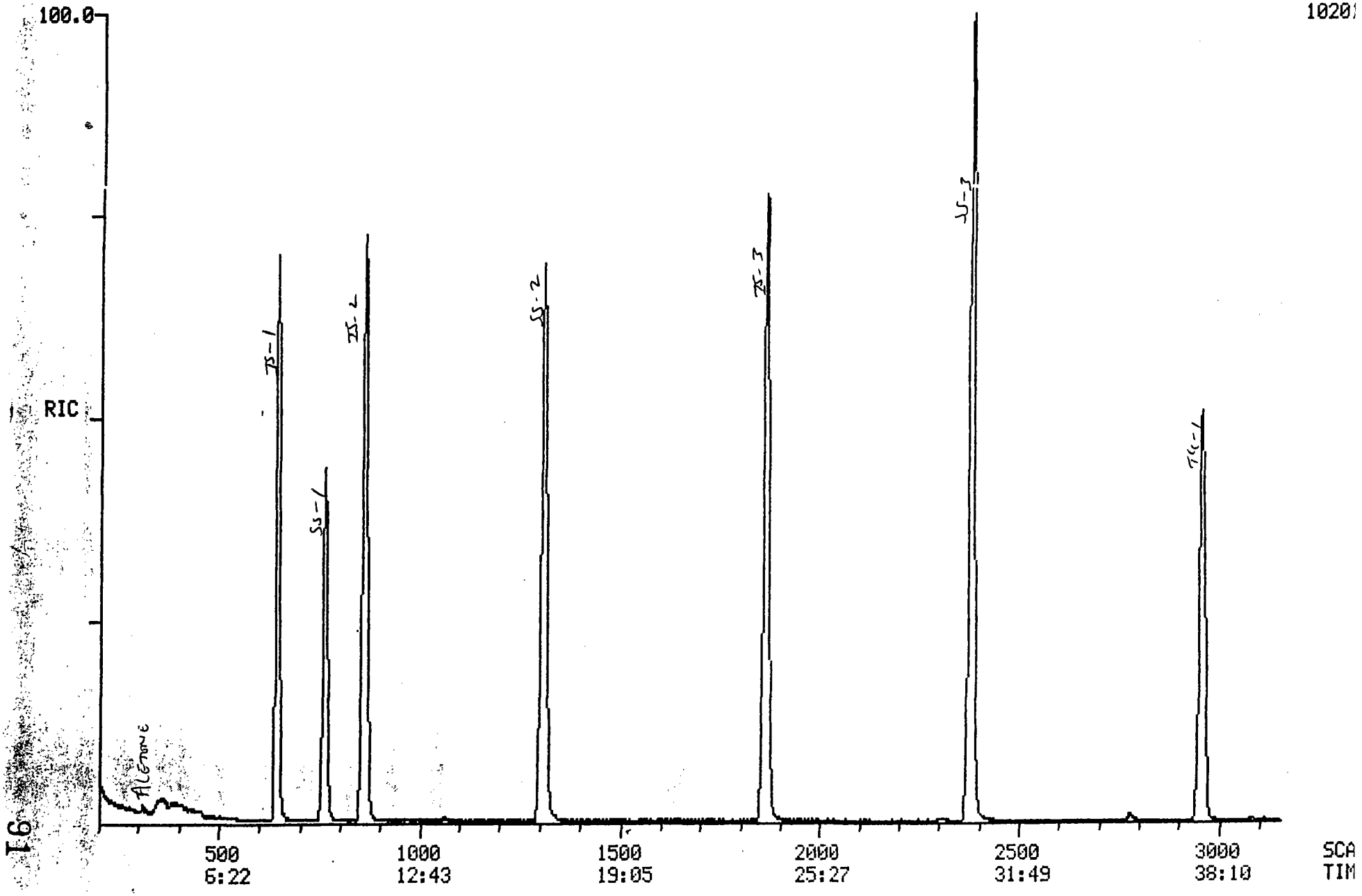


MASS CHROMATOGRAMS DATA: BFB1220 #282 SCANS 273 TO 293
12/20/94 7:36:00 CALI: CALTAB #3
SAMPLE: 50NG BFB MASS SPECTROMETER TUNE CHECK
CONDS.: EPA METHOD 8240
RANGE: G 1, 393 LABEL: N 3, 4.0 QUAN: A 3, 1.0 J 0 BASE: U 20, 3



RIC
12/16/94 14:42:00
SAMPLE: M.BLANK
CONDS.: EPA METHOD 8240
RANGE: G 1,3151 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: CBLK1216 #1 SCANS 200 TO 3151
CALI: CALTAB #3



Quantitation Report File: CBLK1216

Data: CBLK1216.TI
12/16/94 14:42:00
Sample: M.BLANK
Conds.: EPA METHOD 8240
Formula: Instrument: FINN Weight: 0.000
Submitted by: PTL Analyst: UC Acct. No.:

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

No	Name
1	CI01 BROMOCHLOROMETHANE **INT. STD. **
2	CI10 1,4-DIFLUOROBENZENE **INT. STD. **
3	CI20 CHLOROBENZENE-D5 **INT. STD. **
4	CS15 1,2-DICHLOROETHANE-D4 **S. STD. **
5	CS05 TOLUENE-D8 **S. STD. **
6	CS10 4-BROMOFLUOROBENZENE **S. STD. **
7	C010 CHLOROMETHANE **
8	C015 BROMOMETHANE
9	C020 VINYL CHLORIDE *
10	C025 CHLOROETHANE
11	C030 METHYLENE CHLORIDE
12	C251 ACROLIN
13	C035 ACETONE
14	C252 ACRYLONITRILE
15	C040 CARBON DISULFIDE
16	C045 1,1-DICHLOROETHENE *
17	C050 1,1-DICHLOROETHANE **
18	C055 TRANS-1,2-DICHLOROETHENE
19	C000 TRICHLOROFLUOROMETHANE
20	C060 CHLOROFORM *
21	C065 1,2-DICHLOROETHANE
22	C110 2-BUTANONE
23	C115 1,1,1-TRICHLOROETHANE
24	C120 CARBON TETRACHLORIDE
25	C125 VINYL ACETATE
26	C130 BROMO DICHLOROMETHANE
27	C140 1,2-DICHLOROPROPANE *
28	C145 TRANS-1,3 DICHLOROPROPENE
29	C150 TRICHLOROETHENE
30	C155 DIBROMOCHLOROMETHANE
31	C160 1,1,2-TRICHLOROETHANE
32	C165 BENZENE
33	C143 CIS-1,3-DICHLOROPROPENE
34	C175 2-CHLOROETHYL VINYL ETHER
35	C180 BROMOFORM **
36	C220 TETRACHLOROETHENE
37	C210 2-HEXANONE
38	C205 4-METHYL 2-PENTANONE
39	C225 1,1,2,2-TETRACHLOROETHANE **
40	C230 TOLUENE *
41	C235 CHLOROBENZENE **
42	C240 ETHYL BENZENE *
43	C245 STYRENE
44	C250 M+P-XYLENES
45	C253 1,3-DICHLOROBENZENE
46	C254 1,4-DICHLOROBENZENE
47	C255 1,2-DICHLOROBENZENE

TV/VA

No	Name
48	C250 O-XYLENE
49	BENZENE-D6 **S. STD. **

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot	
1	128	642	8:10	1	1.000	A BB	93997.	50.000 NG	16.91	
2	114	858	10:55	2	1.000	A BB	361160.	50.000 NG	16.91	
3	117	1862	23:42	3	1.000	A BB	307852.	50.000 NG	16.91	
4	65	760	9:40	1	1.184	A BB	182407.	49.539 NG	16.76	97
5	98	1308	16:39	3	0.702	A BB	312852.	44.215 NG	14.96	88
6	174	2379	30:16	3	1.278	A BB	209194.	46.493 NG	15.73	93
7	NOT FOUND									
8	NOT FOUND									
9	NOT FOUND									
10	NOT FOUND									
11	49	381	4:51	1	0.593	A BV	2245.	~~0.579~~ NG	0.20	
12	NOT FOUND									
13	43	311	3:57	1	0.484	A BB	4540.	4.614 NG	1.56	
14	NOT FOUND									
15	NOT FOUND									
16	NOT FOUND									
17	NOT FOUND									
18	NOT FOUND									
19	NOT FOUND									
20	NOT FOUND									
21	NOT FOUND									
22	NOT FOUND									
23	NOT FOUND									
24	NOT FOUND									
25	NOT FOUND									
26	NOT FOUND									
27	NOT FOUND									
28	NOT FOUND									
29	NOT FOUND									
30	NOT FOUND									
31	NOT FOUND									
32	NOT FOUND									
33	NOT FOUND									
34	NOT FOUND									
35	NOT FOUND									
36	NOT FOUND									
37	NOT FOUND									
38	NOT FOUND									
39	NOT FOUND									
40	91	1336	17:00	3	0.718	A VB	1368.	~~0.186 NG~~	0.06	
41	NOT FOUND									
42	NOT FOUND									
43	NOT FOUND									
44	NOT FOUND									
45	NOT FOUND									
46	NOT FOUND									
47	NOT FOUND									
48	NOT FOUND									
49	NOT FOUND									

PROCEDURE: FILTER/TIC DIAGNOSTIC REPORT 12/19/94 8:29:58

DATA FILE: CBLK1216

FILTER SCAN PARAMETERS

MAX. NUMBER TICS:	15
11-TABLE ENTRIES:	539
SCAN TOLERANCE :	1
MIN. RIC HT. [%]:	10
FIRST SCAN :	350
LAST SCAN :	3168
TIC THRESHOLD :	600

METHOD LIBRARY & LISTS

TIC I.S. LIBRARY:	LIBRARYLS
NBS SEARCH PROC :	SERLIB
PEAK FINDER PROC:	VOME
TCA I.S. LL :	LS
FILE NAME LIST :	TCAREF2

TARGET COMPOUND ANALYSIS:

TARGETS (QUAN LIST)	IS PEAKS	TOTAL TARGET PEAKS
6	3	9

FILTER PROCESSING:

	<----------REJECT PEAKS---------->						
TOTAL PEAKS	< 1ST SCAN	> LAST SCAN	< MIN RIC HT	< SCAN TOL	> MAX # PEAKS	TOTAL REJECTS	TOTAL TICS
25	5	0	4	7	0	16	9

TIC PROCESSING:

NO.	SCAN#	PURITY	FIT	MW	COMPOUND NAME [BEFORE TIC THRESHOLD]
1	1312	535	647	143	CYCLOHEXANECARBOXYLIC ACID, 1-
2	1858	401	588	149	BENZENEETHANAMINE, DIMETHYL-
3	1865	834	998	850	C120 CHLOROBENZENE-D5 **INT.ST
4	2948	153	440	187	PROPANOIC ACID, 2,2-DIMETHYL-,
5	2950	199	680	177	1H-INDOLE-3-ETHANOL, 5-HYDROXY
6	2954	836	958	370	CYCLOPENTASILOXANE, DECAMETHYL
7	2956	617	744	475	BENZENEETHANAMINE, N-[(PENTAFL
8	2959	590	726	475	BENZENEETHANAMINE, N-[(PENTAFL
9	2962	742	816	370	CYCLOPENTASILOXANE, DECAMETHYL

Quantitation Report File: CBLK1216

Data: CBLK1216.TI
12/16/94 14:42:00
Sample: M.BLANK
Conds.: EPA METHOD 8240
Formula: Instrument: FINN Weight: 0.000
Submitted by: PTL Analyst: UC Acct. No.:

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

No	CAS #	Name
1	0-00-0	CI01 BROMOCHLOROMETHANE **INT.STD.**
2	0-00-0	CI10 1,4-DIFLUOROBENZENE **INT.STD.**
3	0-00-0	CI20 CHLOROBENZENE-D5 **INT.STD.**
4	0-00-0	(_\"DXZ4D (Z++\KXI;NI;I39%0"BJ;M#L
5	541-02-6	CYCLOPENTASILOXANE, DECAMETHYL-
6	50314-21-1	BENZENEETHANAMINE, N-[(PENTAFLUOROPHENYL)METHYLENE]-3,
7	0-00-0	UNKNOWN

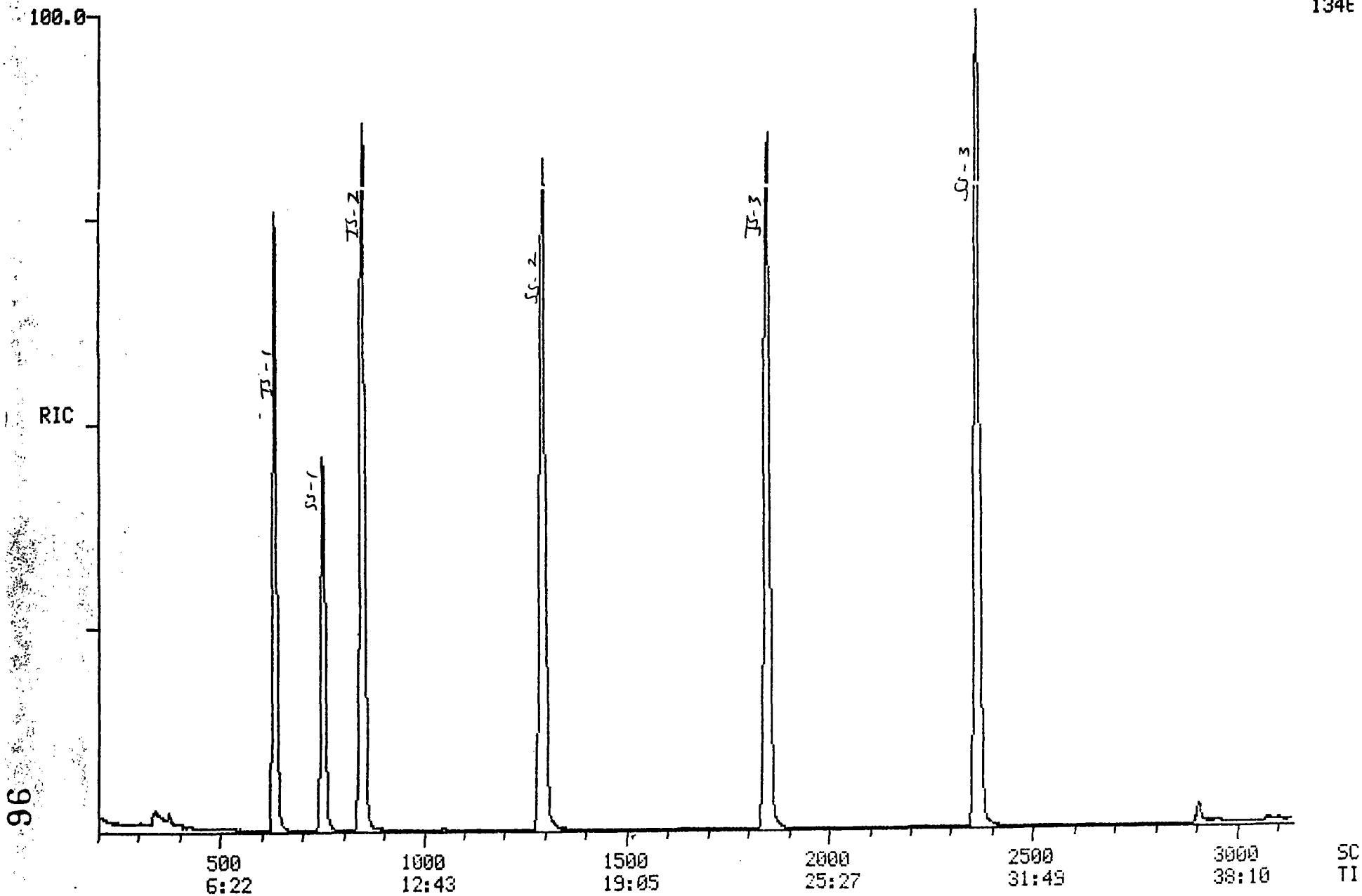
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	TOT	642	8:10	0	ISINV	A BB	552533.	******	UG/L	00.00
2	TOT	859	10:56	0	ISINV	A BB	771000.	******	UG/L	00.00
3	TOT	1862	23:42	0	ISINV	A BB	759728.	******	UG/L	00.00
4	TOT	1866	23:45	0	0.396	A BB	66.	49.539	3%, !	40.36
5	TOT	2956	37:37	3	1.588	A BB	627192.	41.277		33.63
6	TOT	2956	37:37	3	1.588	A BB	618880.	40.730		33.18
7	TOT	2956	37:37	3	1.588	A BB	618880.	40.730		33.18

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:13	0.89	1.000						
2	19:21	0.56	1.000						
3	23:54	0.99	1.000						
4	0:00	******	3.000	0.13	49.54	100.00	-0.000	-0.000	0.50
5					41.28	1.00	41.277	1.000	41.28
6					40.73	1.00	40.730	1.000	40.73
7					40.73	1.00	40.730	1.000	40.73

RIC
12/20/94 8:40:00
SAMPLE: M.BLANK
CONDS.: EPA METHOD 8240
RANGE: G 1,3137 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: CBLK1220 #1
CALI: CALTAB #3

SCANS 200 TO 3137



Quantitation Report File: CBLK1220

Data: CBLK1220.TI
12/20/94 8:40:00
Sample: M.BLANK
Conds.: EPA METHOD 8240
Formula: 5ML Instrument: FINN Weight: 0.000
Submitted by: PTL Analyst: UC Acct. No.:

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

No	Name
1	CI01 BROMOCHLOROMETHANE **INT. STD. **
2	CI10 1,4-DIFLUOROBENZENE **INT. STD. **
3	CI20 CHLOROBENZENE-D5 **INT. STD. **
4	CS15 1,2-DICHLOROETHANE-D4 **S. STD. **
5	CS05 TOLUENE-D8 **S. STD. **
6	CS10 4-BROMOFLUOROBENZENE **S. STD. **
7	C010 CHLOROMETHANE **
8	C015 BROMOMETHANE
9	C020 VINYL CHLORIDE *
10	C025 CHLOROETHANE
11	C030 METHYLENE CHLORIDE
12	C251 ACROLIN
13	C035 ACETONE
14	C252 ACRYLONITRILE
15	C040 CARBON DISULFIDE
16	C045 1,1-DICHLOROETHENE *
17	C050 1,1-DICHLOROETHANE **
18	C055 TRANS-1,2-DICHLOROETHENE
19	C000 TRICHLOROFLUOROMETHANE
20	C060 CHLOROFORM *
21	C065 1,2-DICHLOROETHANE
22	C110 2-BUTANONE
23	C115 1,1,1-TRICHLOROETHANE
24	C120 CARBON TETRACHLORIDE
25	C125 VINYL ACETATE
26	C130 BROMO DICHLOROMETHANE
27	C140 1,2-DICHLOROPROPANE *
28	C145 TRANS-1,3 DICHLOROPROPENE
29	C150 TRICHLOROETHENE
30	C155 DIBROMOCHLOROMETHANE
31	C160 1,1,2-TRICHLOROETHANE
32	C165 BENZENE
33	C143 CIS-1,3-DICHLOROPROPENE
34	C175 2-CHLOROETHYL VINYL ETHER
35	C180 BROMOFORM **
36	C220 TETRACHLOROETHENE
37	C210 2-HEXANONE
38	C205 4-METHYL 2-PENTANONE
39	C225 1,1,2,2-TETRACHLOROETHANE **
40	C230 TOLUENE *
41	C235 CHLOROBENZENE **
42	C240 ETHYL BENZENE *
43	C245 STYRENE
44	C250 M+P-XYLENES
45	C253 1,3-DICHLOROBENZENE
46	C254 1,4-DICHLOROBENZENE
47	C255 1,2-DICHLOROBENZENE

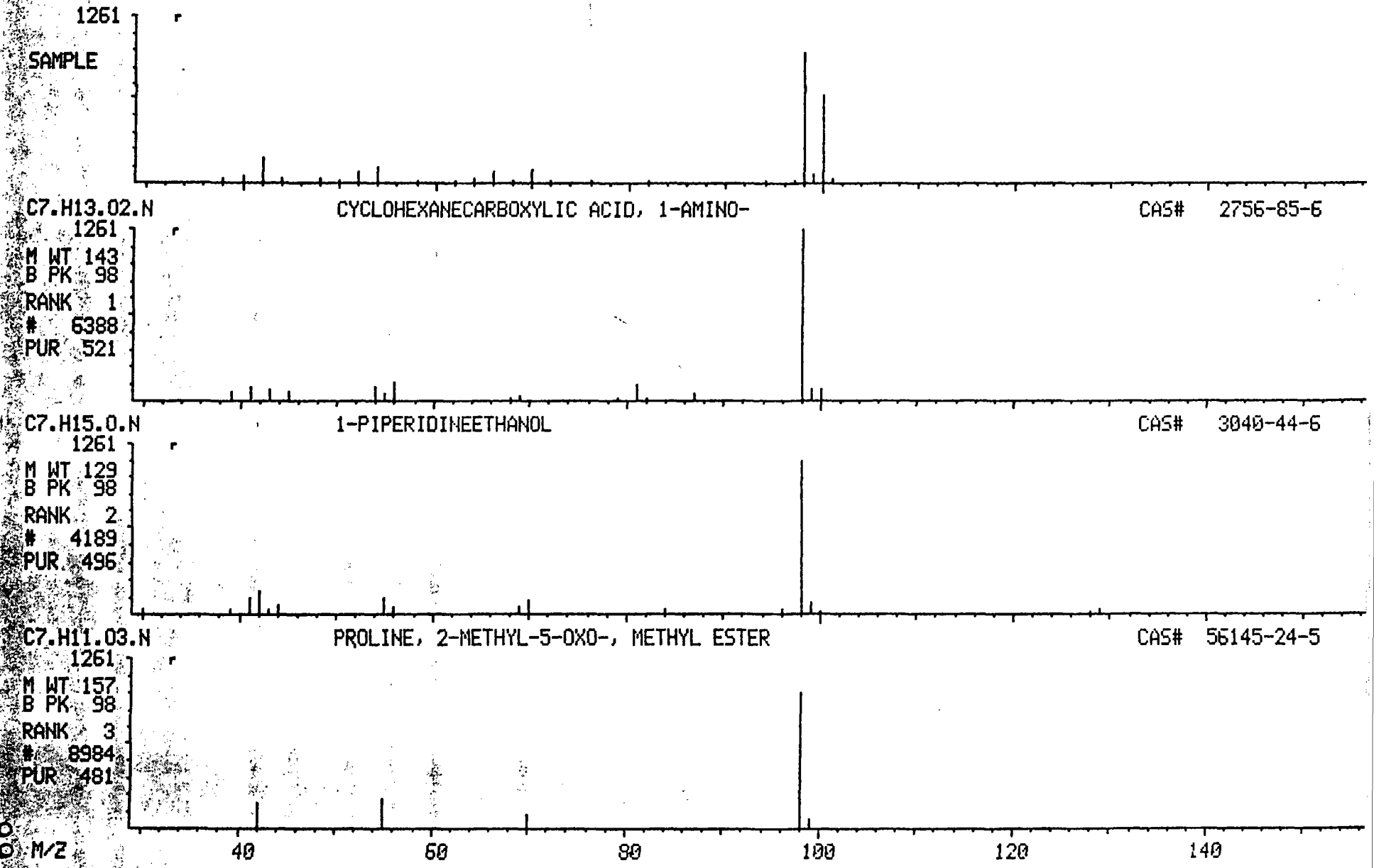
No	Name
48	C250 O-XYLENE
49	BENZENE-D6 **S. STD. **

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	632	8:03	1	1.000	A BB	138154.	50.000 NG	17.19
2	114	847	10:47	2	1.000	A BB	574660.	50.000 NG	17.19
3	117	1846	23:29	3	1.000	A BB	463878.	50.000 NG	17.19
4	65	750	9:33	1	1.187	A BB	258452.	45.725 NG	15.72 91
5	98	1293	16:27	3	0.700	A BB	535691.	51.482 NG	17.70 103
6	174	2365	30:06	3	1.281	A BB	304936.	42.656 NG	14.66 85
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	49	375	4:46	1	0.593	A BB	4941.	~~0.713 NG~~	0.25
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
17	NOT FOUND								
18	NOT FOUND								
19	NOT FOUND								
20	NOT FOUND								
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	NOT FOUND								
26	NOT FOUND								
27	NOT FOUND								
28	NOT FOUND								
29	NOT FOUND								
30	NOT FOUND								
31	NOT FOUND								
32	NOT FOUND								
33	NOT FOUND								
34	NOT FOUND								
35	NOT FOUND								
36	NOT FOUND								
37	NOT FOUND								
38	NOT FOUND								
39	NOT FOUND								
40	91	1319	16:47	3	0.715	A BB	3598.	~~0.340~~ NG	0.12
41	NOT FOUND								
42	NOT FOUND								
43	NOT FOUND								
44	NOT FOUND								
45	NOT FOUND								
46	NOT FOUND								
47	NOT FOUND								
48	NOT FOUND								
49	NOT FOUND								

MID LIBRARY SEARCH (LIBRARYNB)
12/20/94 8:40:00 + 16:29
SAMPLE: M.BLANK
CONDS.: EPA METHOD 8240
ENHANCED (S 15B 2N 0T)

DATA: CBLK1220 #1296
CALI: CALTAB # 3

BASE M/Z: 98
RIC: 51840.



PROCEDURE: FILTER/TIC DIAGNOSTIC REPORT 12/20/94 15:16:23

DATA FILE: CBLK1220

FILTER SCAN PARAMETERS

MAX. NUMBER TICS:	15
11-TABLE ENTRIES:	539
SCAN TOLERANCE :	1
MIN. RIC HT. [%]:	10
FIRST SCAN :	350
LAST SCAN :	3168
TIC THRESHOLD :	600

METHOD LIBRARY & LISTS

TIC I.S. LIBRARY:	LIBRARYLS
NBS SEARCH PROC :	SERLIB
PEAK FINDER PROC:	VOME
TCA I.S. LL :	LS
FILE NAME LIST :	TCAREF2

TARGET COMPOUND ANALYSIS:

TARGETS (QUAN LIST)	IS PEAKS	TOTAL TARGET PEAKS
5	3	8

FILTER PROCESSING:

	<----------REJECT PEAKS---------->						
TOTAL PEAKS	< 1ST SCAN	> LAST SCAN	< MIN RIC HT	< SCAN TOL	> MAX # PEAKS	TOTAL REJECTS	TOTAL TICS
18	1	0	9	7	0	17	1

TIC PROCESSING:

NO.	SCAN#	PURITY	FIT	MW	COMPOUND NAME [BEFORE TIC THRESHOLD]
1	1296	521	651	143	CYCLOHEXANECARBOXYLIC ACID, 1-

Quantitation Report File: CBLK1220

Data: CBLK1220.TI
12/20/94 8:40:00
Sample: M.BLANK
Conds.: EPA METHOD 8240
Formula: 5ML Instrument: FINN Weight: 0.000
Submitted by: PTL Analyst: UC Acct. No.:

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

No	CAS #	Name
1	0-00-0	CI01 BROMOCHLOROMETHANE **INT.STD.**
2	0-00-0	CI10 1,4-DIFLUOROBENZENE **INT.STD.**
3	0-00-0	CI20 CHLOROBENZENE-D5 **INT.STD.**
4	0-00-0	UNKNOWN

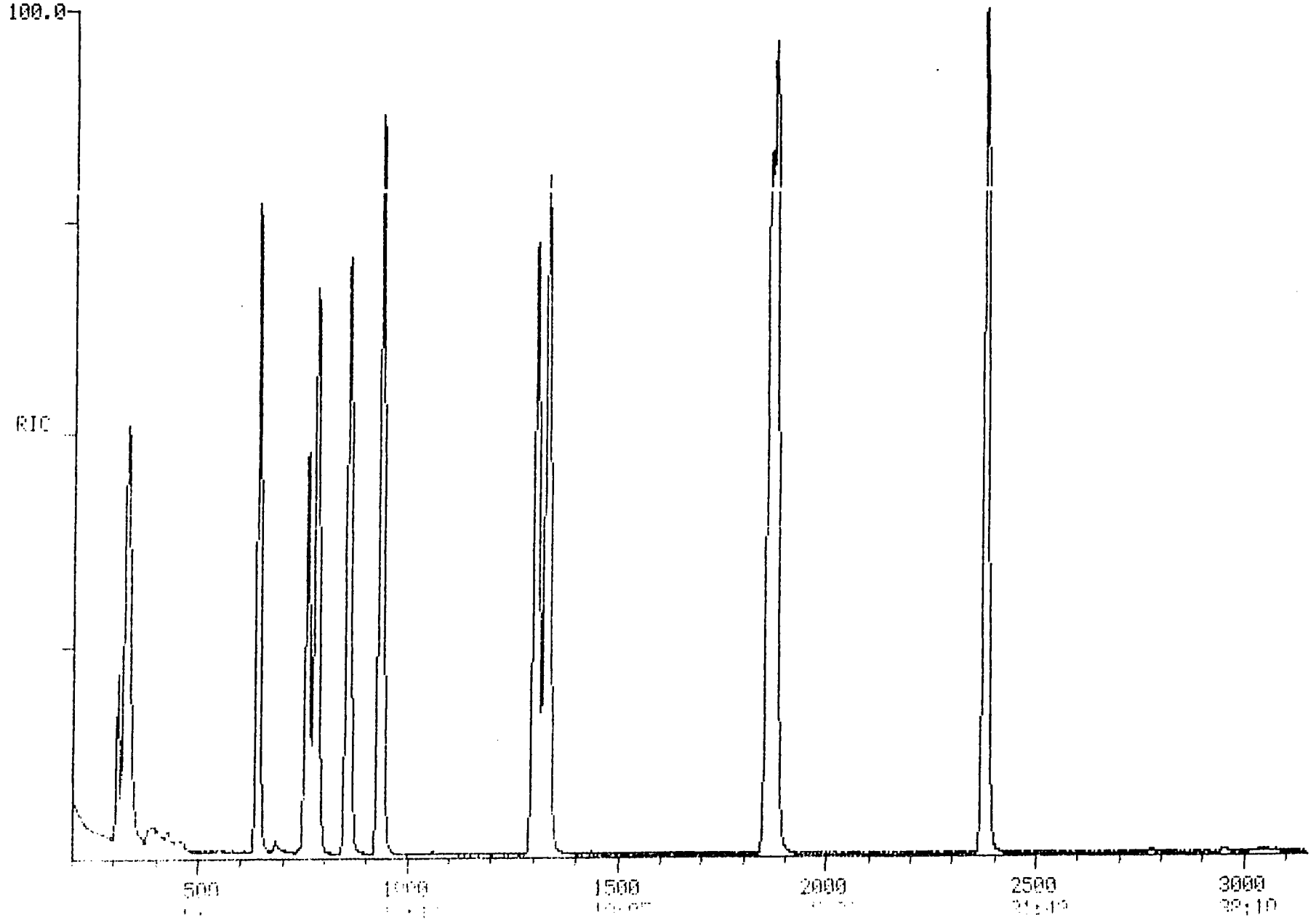
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	TOT	633	8:03	0	ISINV	A BB	804132.	******	UG/L	00.00
2	TOT	847	10:47	0	ISINV	A BB	1204800.	******	UG/L	00.00
3	TOT	1846	23:29	0	ISINV	A BB	1123960.	******	UG/L	00.00
4	TOT	1293	16:27	2	1.527	A BB	1009620.	41.900		*100.

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:13	0.87	1.000						
2	19:21	0.56	1.000						
3	23:54	0.98	1.000						
4					41.90	1.00	41.900	1.000	41.90

RIC
12/16/94 20:23:00
SAMPLE: 5963-001-010 1763.10 MS
CONDS.: EPA METHOD 8240
RANGE: G 1,3151 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: C9240 #1
CALI: C9240 #3

SCANS 200 TO 3151



Quantitation Report File: C9240

Data: C9240.TI
12/16/94 20:23:00
Sample: 5963-001-010 1763.10 MS
Conds.: EPA METHOD 8240
Formula: 2.5G/5ML Instrument: FINN Weight: 0.000
Submitted by: US ARMY Analyst: UC Acct. No.: 5963-001

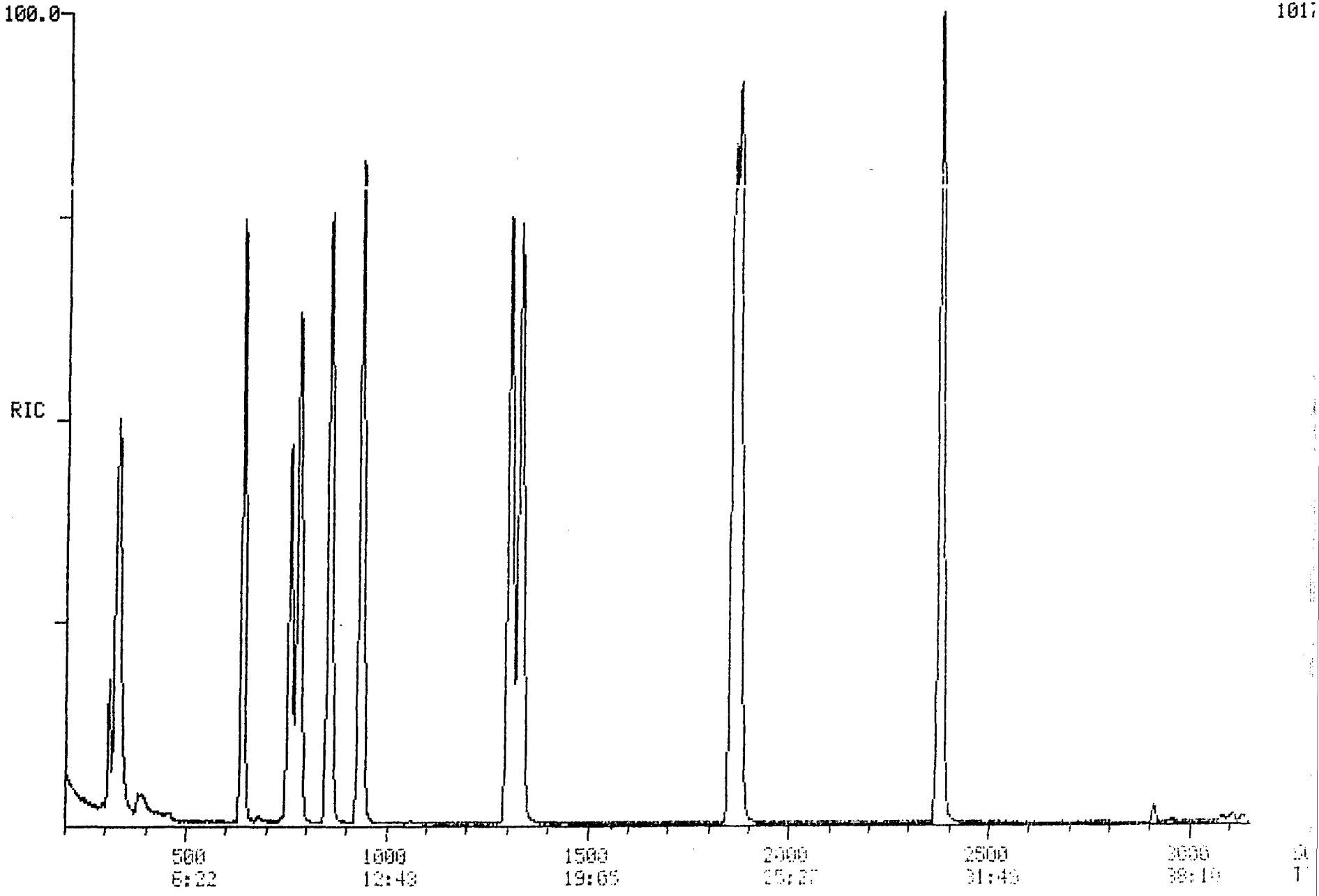
AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
1	CI01 BROMOCHLOROMETHANE **INT. STD. **
2	CI10 1,4-DIFLUOROBENZENE **INT. STD. **
3	CI20 CHLOROBENZENE-D5 **INT. STD. **
4	CS15 1,2-DICHLOROETHANE-D4 **S. STD. **
5	CS05 TOLUENE-D8 **S. STD. **
6	CS10 4-BROMOFLUOROBENZENE **S. STD. **
7	C010 CHLOROMETHANE **
8	C015 BROMOMETHANE
9	C020 VINYL CHLORIDE *
10	C025 CHLOROETHANE
11	C030 METHYLENE CHLORIDE
12	C251 ACROLIN
13	C035 ACETONE
14	C252 ACRYLONITRILE
15	C040 CARBON DISULFIDE
16	C045 1,1-DICHLOROETHENE *
17	C050 1,1-DICHLOROETHANE **
18	C055 TRANS-1,2-DICHLOROETHENE
19	C000 TRICHLOROFLUOROMETHANE
20	C060 CHLOROFORM *
21	C065 1,2-DICHLOROETHANE
22	C110 2-BUTANONE
23	C115 1,1,1-TRICHLOROETHANE
24	C120 CARBON TETRACHLORIDE
25	C125 VINYL ACETATE
26	C130 BROMO DICHLOROMETHANE
27	C140 1,2-DICHLOROPROPANE *
28	C145 TRANS-1,3 DICHLOROPROPENE
29	C150 TRICHLOROETHENE
30	C155 DIBROMOCHLOROMETHANE
31	C160 1,1,2-TRICHLOROETHANE
32	C165 BENZENE
33	C143 CIS-1,3-DICHLOROPROPENE
34	C175 2-CHLOROETHYL VINYL ETHER
35	C180 BROMOFORM **
36	C220 TETRACHLOROETHENE
37	C210 2-HEXANONE
38	C205 4-METHYL 2-PENTANONE
39	C225 1,1,2,2-TETRACHLOROETHANE **
40	C230 TOLUENE *
41	C235 CHLOROBENZENE **
42	C240 ETHYL BENZENE *
43	C245 STYRENE
44	C250 M+P-XYLENES
45	C253 1,3-DICHLOROBENZENE
46	C254 1,4-DICHLOROBENZENE
47	C255 1,2-DICHLOROBENZENE

RIC
12/16/94 21:10:00
SAMPLE: 5963-001-010 1763.10 MSD
CONDS.: EPA METHOD 8240
RANGE: G 1,3151 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: C9241 #1
CALI: C9241 #3

SCANS 200 TO 3151



105

Quantitation Report File: C9241

Data: C9241.TI
12/16/94 21:10:00
Sample: 5963-001-010 1763.10 MSD
Conds.: EPA METHOD 8240
Formula: 2.5G/5ML Instrument: FINN Weight: 0.000
Submitted by: US ARMY Analyst: UC Acct. No.: 5963-001

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

No	Name
1	CI01 BROMOCHLOROMETHANE **INT. STD. **
2	CI10 1,4-DIFLUOROBENZENE **INT. STD. **
3	CI20 CHLOROBENZENE-D5 **INT. STD. **
4	CS15 1,2-DICHLOROETHANE-D4 **S. STD. **
5	CS05 TOLUENE-D8 **S. STD. **
6	CS10 4-BROMOFLUOROBENZENE **S. STD. **
7	C010 CHLOROMETHANE **
8	C015 BROMOMETHANE
9	C020 VINYL CHLORIDE *
10	C025 CHLOROETHANE
11	C030 METHYLENE CHLORIDE
12	C251 ACROLIN
13	C035 ACETONE
14	C252 ACRYLONITRILE
15	C040 CARBON DISULFIDE
16	C045 1,1-DICHLOROETHENE *
17	C050 1,1-DICHLOROETHANE **
18	C055 TRANS-1,2-DICHLOROETHENE
19	C000 TRICHLOROFLUOROMETHANE
20	C060 CHLOROFORM *
21	C065 1,2-DICHLOROETHANE
22	C110 2-BUTANONE
23	C115 1,1,1-TRICHLOROETHANE
24	C120 CARBON TETRACHLORIDE
25	C125 VINYL ACETATE
26	C130 BROMO DICHLOROMETHANE
27	C140 1,2-DICHLOROPROPANE *
28	C145 TRANS-1,3 DICHLOROPROPENE
29	C150 TRICHLOROETHENE
30	C155 DIBROMOCHLOROMETHANE
31	C160 1,1,2-TRICHLOROETHANE
32	C165 BENZENE
33	C143 CIS-1,3-DICHLOROPROPENE
34	C175 2-CHLOROETHYL VINYL ETHER
35	C180 BROMOFORM **
36	C220 TETRACHLOROETHENE
37	C210 2-HEXANONE
38	C205 4-METHYL 2-PENTANONE
39	C225 1,1,2,2-TETRACHLOROETHANE **
40	C230 TOLUENE *
41	C235 CHLOROBENZENE **
42	C240 ETHYL BENZENE *
43	C245 STYRENE
44	C250 M+P-XYLENES
45	C253 1,3-DICHLOROBENZENE
46	C254 1,4-DICHLOROBENZENE
47	C255 1,2-DICHLOROBENZENE

No	Name
48	C250 O-XYLENE
49	BENZENE-D6 **S. STD. **

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	640	8:09	1	1.000	A BB	93508.	50.000 NG	7.67
2	114	857	10:54	2	1.000	A BB	367065.	50.000 NG	7.67
3	117	1860	23:40	3	1.000	A BB	288806.	50.000 NG	7.67
4	65	758	9:39	1	1.184	A BB	191411.	52.257 NG	8.01
5	98	1305	16:36	3	0.702	A BB	349774.	52.693 NG	8.08
6	174	2378	30:15	3	1.278	A BB	210630.	49.899 NG	7.65
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	49	379	4:49	1	0.592	A BV	6415.	1.662 NG	0.25
12	NOT FOUND								
13	43	309	3:56	1	0.483	A BB	82464.	84.244 NG	12.92
14	NOT FOUND								
15	NOT FOUND								
16	96	329	4:11	1	0.514	A BB	110443.	53.917 NG	8.27
17	NOT FOUND								
18	NOT FOUND								
19	NOT FOUND								
20	NOT FOUND								
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	NOT FOUND								
26	NOT FOUND								
27	NOT FOUND								
28	NOT FOUND								
29	95	935	11:54	2	1.091	A BB	150524.	50.821 NG	7.79
30	NOT FOUND								
31	NOT FOUND								
32	78	780	9:55	2	0.910	A BB	308330.	50.853 NG	7.80
33	NOT FOUND								
34	NOT FOUND								
35	NOT FOUND								
36	NOT FOUND								
37	NOT FOUND								
38	NOT FOUND								
39	NOT FOUND								
40	91	1332	16:57	3	0.716	A BB	349932.	50.820 NG	7.79
41	112	1874	23:51	3	1.008	A BB	311798.	55.125 NG	8.45
42	NOT FOUND								
43	NOT FOUND								
44	NOT FOUND								
45	NOT FOUND								
46	NOT FOUND								
47	NOT FOUND								
48	NOT FOUND								
49	NOT FOUND								

ANALYSIS RUN-LOG SHEETS

	D/T ANALYZED	DATA FILE	JOB NUMBER	PTL ID	CLIENT	DILUTION	IS NOH	SURROGATE	COMMENTS	UNITS
							Method 8240			
	12/16/94	BFB1216		Paired @ 13:36					292, 294 #127	u2
5		CV01216		50 ppb VOA std					ok	u2
6		CBLK1216		M. Blank					ok	u2
7		C9234	5963-	17634-00/019	U.S. Army	2.5g/5ml			ok	u2
8		C9235	5991-	1764-1 00/01	↓	↓			ok	u2
9		C9236		17642 -00/02	↓	↓			ok	u2
10		C9237	5963-	17635 00/05	↓	5g/10ml 100ul/5ml			ok clean	u2
1		C9238		TCLP Blank		1:5			ok	u2
2		C9239	5667-	001	Magnesium	1:5			ok	u2
3		C9240	5963-	MS 00/010	US Army	2.5g/5ml			ok	u2
4		C9241		MSD 00/010	↓	↓			ok	u2

Rerun

LOCAL NAME:

609

	D/T ANALYZED	DATA FILE	JOB NUMBER	PTL ID	CLIENT	DILUTION	IS NON	SURROGATE	COMMENTS	UNITS
							Method	8240		
AM	12/20/94	BFB122P		Paired @ 7:36					282, 524	ug
10		CVD129		50 ppb WA 5ml						
1		CBLKB120		M. Blank.	5ml				OK	ug
2		C9244	5991-	00103	US Army	5ml			OK	ug
3		C9245	5963-	00101					OK	ug
4		C9246	-	06					OK	ug
5		C9247	-	011					OK	ug
6		C9248	-	012		5ml/10ml			OK	ug
7		C9249	5963-	00105		200ml/5ml			OK	ug
		C9250								
110		C9251								

LOCAL NAME: