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Report on Sampling and Analysis of Air at Trenches 218-W-4C and 218-W-5 #31 of the Low Level Burial Grounds

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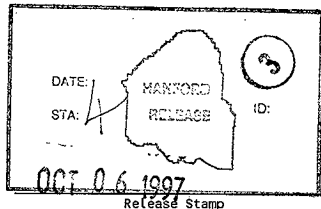
Abstract: This report presents analytical results of air samples collected from trenches at the Low Level Burial Grounds. The samples were collected with SUMMA canisters and were analyzed by gas chromatography-mass spectrometry using a modified EPA TO-14 procedure. The data suggest that the vent pipes of the 218-W-4C trenches had elevated concentrations of volatile organic compounds. The ambient air samples collected at the 218-W-5 #31 facility, an open trench that does not contain any waste at this time, did not show any target compounds above the method detection limit.

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Report on Sampling and Analysis of Air at Trenches 218-W-4C and 218-W-5 #31 of the Low-Level Burial Grounds

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LIST OF TERMS

amu	atomic mass unit, a unit used in mass spectrometry
atm	atmosphere
ft	feet
GC/MS	gas chromatography/mass spectrometry
in.	inch
L	liter
LLBG	low-level burial grounds
m	meter
MDL	method detection limit
mL	milliliter
mm	millimeter
ppbv	parts per billion by volume
psia	pounds per square inch atmosphere
SWD	Solid Waste Division
TIC	total ion chromatogram
VOC	volatile organic compound
μm	micrometer

1.0 SUMMARY

Special Analytical Support collected air samples from trenches 218-W-5 # 31 and 218-W-4C of the Low-Level Burial Grounds (LLBG) to determine the type and concentration of volatile organic compound emissions. Grab samples were taken using evacuated SUMMA¹ canisters and were analyzed by gas chromatography-mass spectrometry (GC/MS) using a modified EPA TO-14 procedure (Winberry et al. 1990). The analytical system was calibrated with 36 compounds (target compounds). These compounds are a special concern of the Solid Waste Division (SWD).

At the 218-W-4C burial ground, which is a series of covered trenches filled with mixed waste drums, the samples were collected at the vent pipes. The 218-W-4B site could not be sampled because of subsidence issues. The analytical data suggest the trenches had generally higher concentrations of chlorinated volatile organic compounds compared to background ambient air. The maximum concentrations of the major target compounds were as follows:

- Trench 1: Freon 113 (up to 91 ppbv), dichloromethane (380 ppbv), 1,1-dichloroethane (166 ppbv), chloroform (49 ppbv), 1,1,1-trichloroethane (770 ppbv), 1,2-dichloroethane (154 ppbv), carbon tetrachloride (220 ppbv), trichloroethene (495 ppbv), and tetrachloroethene (302 ppbv), tetrahydrofuran (82 ppbv), and iso-butane (278 ppbv). The major non-target compound (tentatively identified) was trichlorofluoromethane (Freon 11).
- Trench 4: Freon 113 (241 ppbv), dichloromethane (220 ppbv), 1,1-dichloroethane (55 ppbv), chloroform (244 ppbv), 1,1,1-trichloroethane (527 ppbv), carbon tetrachloride (1,183 ppbv), trichloroethene (224 ppbv), and tetrachloroethene (829 ppbv), and 2-butanone (1,204 ppbv). Trichlorofluoromethane (Freon 11) was tentatively identified in several samples.
- Trench 7: Carbon tetrachloride (2,062 ppbv), Freon 113 (1,064 ppbv), chloroform (611 ppbv), trichloroethane (155 ppbv), and trichloroethene (144 ppbv).
- Trench 20: Carbon tetrachloride (166 ppbv).

The ambient air at the 218-W-5 facility, an open trench that does not contain any waste at this time, was sampled with wind blowing from the northeast. The analytical data did not show target compounds above the method detection limit (MDL) of 10 ppbv.

This study represents an initial screening to establish a baseline for volatile organic compounds at the 218-W-4C and 218-W-5 # 31 LLBGs. Additional sampling and analyses are needed for a quantitative estimation of the annual volatile organic compound emissions from these facilities.

¹SUMMA is a trademark of Molectrics, Inc., Cleveland, Ohio,

2.0 INTRODUCTION

The Hanford 218-W-4C LLBG is a storage site for buried solid waste materials under the management of the SWD. The site consists of a series of trenches, each about 175 to 200 m long. The trenches contain stacks of drums filled with mixed, radioactive, and transuranic wastes. The top of each trench is sealed with a plastic liner and is covered with soil. The trenches are vented by 2 in. plastic pipes, spaced about 2 ft apart.

The 218-W-5 #31 trench is a recently completed open disposal pit located at the 200 West Area of the Hanford Site in Washington State. This facility will be used in the future for the disposal of low-level mixed wastes. Such landfills are subject to the regulations of the *Clean Air Act of 1977*. Therefore, it is important to know whether the wastes disposed at the landfill are releasing any volatile organic compounds (VOCs). Because many other potential sources of fugitive VOC emissions exist in the vicinity of the LLBG landfill site, a pre-operational air sampling event was planned to determine the ambient VOC concentrations before disposing waste in the trench.

Special Analytical Support conducted a screening study to determine the type and concentration of VOCs in the ambient air at the 218-W-5 # 31 open trench and the vent pipes of the 218-W-4C burial ground. This enabled the identification of compounds of potential concern for air emission permitting. This study is the initial measurement to establish a baseline for the VOCs at the LLBG.

The objectives of the study for trench 218-W-4C were detailed in a Letter of Instruction, issued as internal memorandum, 87600-RDP-96-032 (Pierce 1996a). For the 218-W-5 open trench, the Letter of Instruction was transmitted as document 87600-RDP-96-006 (Pierce 1996b). The strategy for collecting and analyzing the air samples was outlined in *218-W-4C and 4B Vent Pipes Air Sampling* (Lockrem, 1996a) for 218-W-4C and *218-W-5 Trenches 31 and 34 Baseline Air Sampling* for 218-W-5. The data quality objectives were described in Pierce (1996a).

3.0 SAMPLING

3.1 SAMPLING EQUIPMENT

Grab samples were collected with evacuated SUMMATM canisters (Rasmussen, Hillsboro, OR). These spherical stainless steel containers (6.0 L) have an electro-polished interior that is considered chemically inert. The canisters were cleaned by a combination of mass dilution with Ultrapure air (Scott-Marrin, Riverside, CA) and evacuation.

3.2 SAMPLE TYPES

Four types of SUMMA™ grab samples were collected at the LLBG: vent pipe samples, ambient air samples, background samples, and trip blanks. One set of duplicate samples was collected from each trench as a backup.

3.2.1 Vent Pipe Samples

The 218-W-4C trenches were sampled at the vent pipe as described in Lockrem (1996a). A 1/8-in. stainless steel tube was lowered about 4 ft into the vent pipe. After purging the line with a pump, the trench vent pipe was sampled by opening the valve on the evacuated SUMMA™ canisters and taking a grab sample over a one minute time interval.

3.2.2 Ambient Air Samples

The 218-W-5 # 31 open trench was sampled with evacuated SUMMA™ by exposing the canisters at waist level (about 1 m above ground) to the ambient atmosphere over a one minute time interval. Sampling locations and prevalent wind direction are detailed in Figure 1.

3.2.3 Background Samples

At the 218-W-4C LLBG, a background ambient air sample was collected at the center of the trench. No background sample was collected at the 218-W-5 open trench because this project was designed to determine the influence of fugitive emissions from other sites.

3.2.4 Trip Blanks

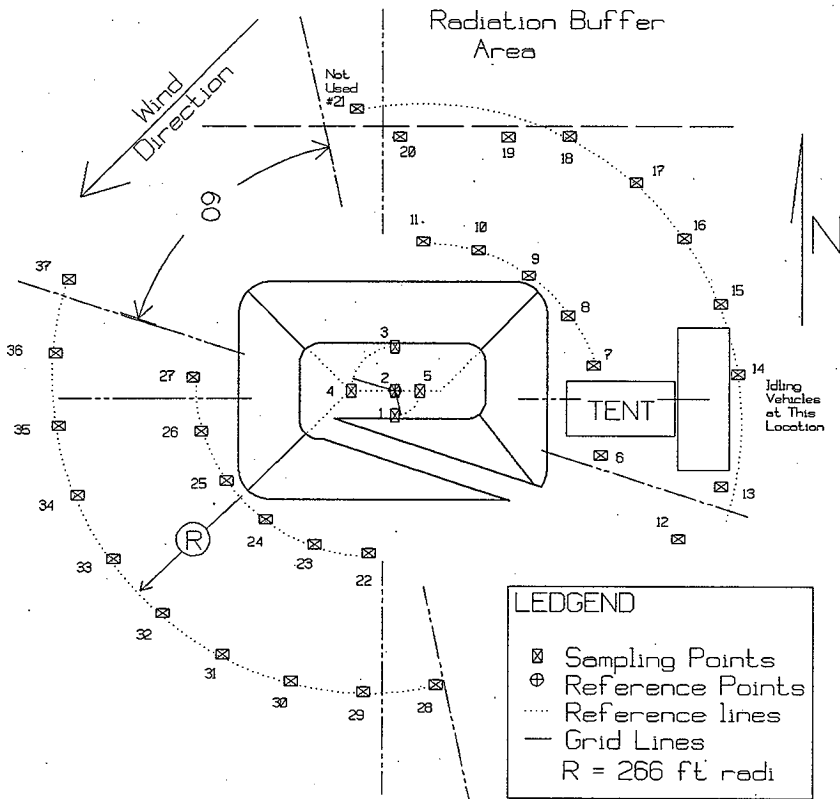
A quality assurance trip blank was carried into the field and returned to the laboratory as an unopened canister. At the laboratory, the canister was filled with zero grade air, analyzed and used as an background reference.

3.3 SAMPLING CHRONOLOGY

3.3.1 Trench 218-W-4C

Sample collection was documented in a controlled logbook: WHC-N-499 #1, pages 141 through 142. Thirty SUMMA™ canisters were moved under chain of custody on September 25, 1996 to the 218-W-4C trench. The threaded cap was removed from the first vent

Figure 1. Sampling Locations at 281-W-5 #31.



pipe at trench # 1, and a 1/8-in. stainless steel tube was lowered about 4 ft into the pipe opening. The other end of this sampling line was connected with a T-fitting to a shutoff valve and a portable diaphragm pump; a SUMMA™ canister was connected to the other port. After a one-minute purge with the pump, the shutoff valve was closed, and the trench vent pipe was sampled by opening the valve on the evacuated SUMMA™ canisters and exposing it to the vent pipe headspace over a one-minute interval. Then the valve was closed and capped, the attached tag was filled out with the pertinent sampling information, and the can was removed from the sampling site. This procedure was continued at every fourth vent pipe. Most trenches were not completely filled with waste drums; therefore, the number of risers and, correspondingly, the number of samples varied at each trench. The following trenches were sampled as follows:

Trench #	01	Number of samples:	6
	04		8
	07		4
	20		3

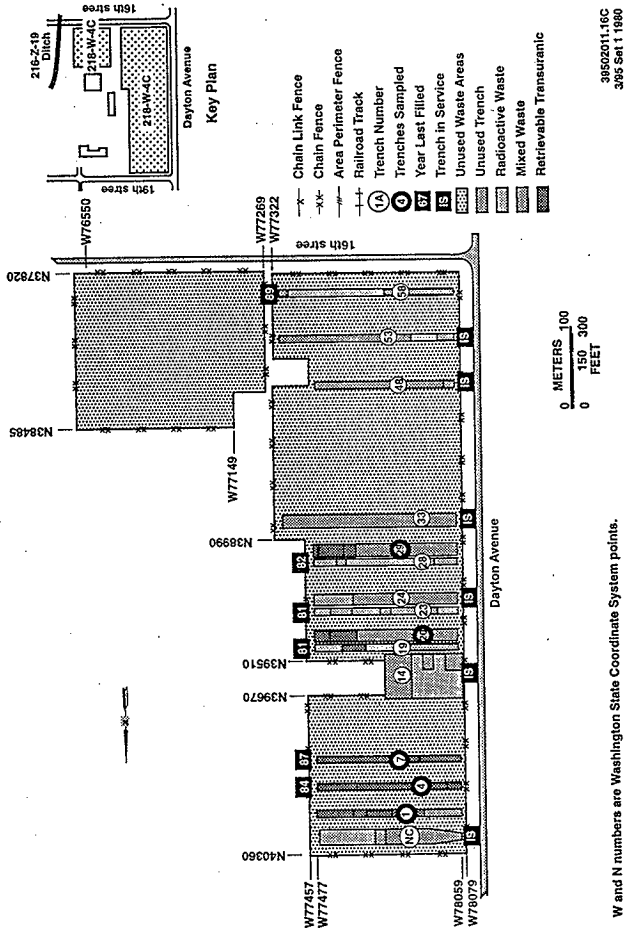
A background blank was collected at the center of each trench by exposing the SUMMA™ canister over one minute at waist level to the ambient atmosphere. Additionally, upwind and downwind fence line blanks also were collected. The operators said that trenches # 29 at 218-W-4C and # 11 at 218-W-4B could not be sampled as planned because of subsidence issues. The approximate sampling locations at 218-W-4C are recorded in Figure 2.

3.3.2 Trench 218-W-5 # 31

Sample collection was documented in controlled logbook WHC-N-499 #1 on pages 138 through 140. Thirty-nine SUMMA™ canisters were moved under chain of custody on September 12, 1996 to the 218-W-5 # 31 trench. A flag, mounted at the rim of this large open pit, was used to determine the dominant wind direction over a five-minute interval. The direction was northeast. A sampler placed a surveyor's transit instrument in the center of the pit. A second sampler was directed to place SUMMA canisters in six arcs, three each upwind and downwind from the center as outlined in (Lockrem 1996b) (see Figure 1). One canister was placed at the center of the pit. Arc # 1 was described by placing two canisters inside the trench at 45° to the left and right of the wind direction (upwind). Arc #2 consisted of six SUMMA™ canisters placed at the edge of the pit in a 90° arc around the wind vector as a centerline. A measuring tape was used to place the canisters along this arc equidistant from the center of the pit. Arc #3, 120°, was outlined by placing ten SUMMA™ canisters 10 m behind arc # 2.

This procedure was repeated downwind from the center of the trench by placing 18 canisters in three arcs (see Figure 1).

Figure 2. Trenches Sampled at 218-W-4C.



Once all SUMMA™ canisters were laid out, the sampling began by opening the valves on the canisters and exposing the cans for about one minute to the ambient atmosphere. Then the valves were closed and capped, and the relevant sample information was entered on the SUMMA™ tag. After all cans were filled, the canisters were collected and moved to the laboratory for analysis.

3.4 QUALITY CONTROLS

After cleaning the SUMMA™ canisters, the canister valves were closed and capped. A new tag was attached to the canister that showed its status at this stage, i.e., cleaned. At least 10 percent of the cleaned canisters were filled with zero air and analyzed for cleanliness. The evacuated cans were shipped to the sampling site under chain of custody. After sample collection, a sample identifier was written on the sample tag as described in (Lockrem 1996a and 1996b). In the analyzing laboratory, the pressure was checked on each SUMMA™ canister to assure uniform filling and no leakage.

Background blanks were collected at the 218-W-4C site but not at the 218-W-5 open pit. A quality assurance trip blank was carried into the field and returned to the laboratory as an evacuated canister. At the laboratory, it was filled with zero air, analyzed, and used as background reference.

4.0 ANALYSIS

The pressure was checked on each filled SUMMA™ canister before analysis: All canisters had a pressure of 15 psia (complete filling). The canisters were pressurized with zero air to 30.0 pounds per square inch atmosphere (2 atms) and allowed to equilibrate for at least four hours before analysis.

The air samples were analyzed using a modified EPA procedure TO-14 (Winberry et al. 1990). A system with a gas chromatograph for compound separation and with mass spectrometer detection optimized for trace level organic analyses was used for qualitative and quantitative measurements.

4.1 ANALYTICAL EQUIPMENT

The GC/MS system consisted of the following components:

1. Gas Chromatograph (GC)

A Hewlett-Packard² GC, model 5890 series II-Plus that was fitted with a 6-port sampling valve. The capillary column (DB-5; J & W Scientific, Folsom, CA) had an internal diameter of 0.32 mm, a length of 60 m, 1.0 μ m film thickness, and a helium carrier with 1.5 mL per minute flow rate.

2. Mass Spectrometer (MS)

A Hewlett-PackardTM mass spectrometer, model 5972 MSD was used in the electron impact mode with a scan range from 29 to 300 amu.

3. Controlling Software

HP 3365 HPChem Station for GC control

HP G1034 MSChem for data acquisition and MS control

Wiley 138 and National Bureau of Standards mass spectral libraries for compound identification.

4.2 SAMPLE ANALYSIS

An accurately measured volume of sample gas was drawn from the SUMMATM canister (100 torr pressure differential, corresponding to about 790 milliliters of air under standard conditions). The VOCs were condensed on a trap filled with chemically modified (dimethyl chlorosilane-treated) glass beads (Alltech, Deerfield, IL) by cooling to -185 °C (liquid argon). The GC/MS analysis was started by heating the trap to about 85 °C. The trap contents were transferred onto the GC column through the GC sampling valve and refocused on the GC column at -50 °C. After 1 minute, the GC was heated at 6 °C per minute to 180 °C, then ramped at 25 °C per minute to 250 °C, and finally held at 250 °C for 2 minutes.

4.3 COMPOUND IDENTIFICATION AND QUANTITATION

A three-point calibration curve was generated using 1,000 ppbv, 500 ppbv, and 100 ppbv standards (Scott-Merrin, Riverside, CA). Each standard contained 40 compounds of special concern to SWD, but only 36 compounds were used for quantitation of the air samples. No comprehensive study was done for this screening study to establish an MDL. However, it was

²Hewlett-Packard is a trademark of Hewlett-Packard Corporation.

found that 10 ppbv per compound could reproducibly be measured. The MDL was therefore established at 10 ppbv or better. The following four compounds did not give reproducible data under the conditions used for the analyses: 2-butoxy-ethanol (monobutyl ether ethylene glycol), propane, methanol, and methoxy-2-propanol. However, the presence of these four compounds in a sample can be established from the qualitative mass spectral library searches.

For each sample analyzed, a total ion chromatogram (TIC) was generated, which is the sum of the mass spectra over the mass range from 29 to 300 amu. This chromatogram is included in Appendix A for each sample. The TIC data were further processed by extracting the masses characteristic for each target compound. These extracted ion chromatograms were integrated, and the area counts were used to quantitate the 36 target compounds used in the calibration.

In order to identify other compounds in a sample besides the 36 target compounds used for the calibration, two spectral libraries (Wiley 138, National Bureau of Standards/National Institute of Standards and Technology) were searched. The mass spectrum for each compound was compared with the 190,000 spectra in these data bases. A compound was considered **tentatively identified** if the match quality between the unknown and the library was 70 percent or better. These library searches with tentatively identified compounds are included in Appendix A. **It is important to remember that tentatively identified compounds do not necessarily indicate the presence of these compounds in the sample.** It requires at least two independent parameters to confirm the presence of a compound (**positive identification**). Generally, this is done by analyzing a sample of the suspected compound under identical conditions. Target compounds were considered positively identified when the retention times matched, and primary ions were present.

4.4 METHOD MODIFICATIONS

The EPA TO-14 air analysis method was developed by the Environmental Protection Agency to measure nonpolar and slightly polar organic compounds such as halogenated compounds, aromatics, and paraffinic hydrocarbons. Two modifications of the procedure were made to accommodate polar compounds. The untreated glass beads used for cryogenic trapping of the analytes were replaced with beads with a chemically modified surface (dimethyl chlorosilane-treated, Alltech, Deerfield, IL). Furthermore, the ultra zero air supply was fitted with a humidifier. It was used to purge the sample inlet system with moist, pure air, especially after analyzing a sample rich in polar compounds and after every calibration sample. These two modifications drastically reduced the adsorption of the polars and eliminated carryover of these compounds.

4.5 QUALITY CONTROLS

4.5.1 Sampling Equipment

The sample volumes were determined by measuring the system pressure differential at the beginning and end of the cryogenic trapping using an absolute pressure gauge. The gauge was calibrated by the Westinghouse Hanford Company Standards Laboratory (ID # 518-31-04-002); the current calibration expired May 16, 1997.

4.5.2 Analytical Equipment

A diagnostic check (High Sensitivity Autotune) of the GC/MS was made daily using perfluorotributylamine tuning standards. Daily baseline blanks using a sample of highly purified air (Ultrapure Air, Scott-Merrin, Riverside, CA) were run to verify baseline characteristics.

4.5.3 Calibration Standards

A three-point calibration curve was generated using a primary 1000 ppbv standard and secondary 500 and 100 ppbv standards (Scott-Merrin, Riverside, CA). The 500 ppbv standard was used as a calibration check standard and was analyzed each day during the analysis cycles. No comprehensive study was done for this screening project to establish an MDL. However, it was found that 10 ppbv per compound could reproducibly be measured. The MDL was therefore established at 10 ppbv or better.

4.5.4 Analysis Records

All entries were recorded in controlled logbook WHC-N-1236 # 1, pages 94 through 102.

5.0 RESULTS

Tables 1 and 2 list the analytical data for the target compounds for the baseline studies of trenches 218-W-4C and 218-W-5#31, respectively. Appendices A and B contain the qualitative library searches for the GC/MS analyses for trenches 218-W-4C and for 218-W-5 # 31. The appendices also include the total ion chromatograms from the GC/MS analyses for each SUMMATM sample

Table 1. GC/MS Data for Trench 218-W-4C of the Low-Level Burial Ground. (sheet 1)

SAMPLE NUMBER	COMMENTS	TRENCH	CONCENTRATION	ISOBUTANE	VINYL CHLORIDE	ETHANOL	ACETONE	2-PROPANOL	1,1-DICHLOROETHYLENE	1,1,1-TRICHLOROETHYLENE	1,2-DICHLOROETHYLENE	1,2-DICHLOROETHANE	TETRAHYDROFURAN	1,1,1-TRICHLOROETHANE	1,2-DICHLOROETHANE	BENZENE	MACEON 1100	METHANOL	METHOXY-2-PROPANO
FT 6122-101.01A		1	PPB																
FT 6122-101.02A		1	PPB	2															
FT 6122-101.03A		1	PPB	278															
FT 6122-101.04A		1	PPB																
FT 6122-101.05A		1	PPB																
FT 6122-101.05B		1	PPB																
FT 6122-101.05A	Duplicate	1	PPB																
FT 6122-101.06A		1	PPB																
FT 6122-101.06B		4	PPB	35															
FT 6122-101.06A		4	PPB																
FT 6122-101.11A		4	PPB																
FT 6122-101.12A		4	PPB																
FT 6122-101.13A		4	PPB	3															
FT 6122-101.14A		4	PPB																
FT 6122-101.15A		4	PPB																
FT 6122-101.16A		7	PPB																
FT 6122-101.17A		7	PPB																
FT 6122-101.18A		7	PPB																
FT 6122-101.19A		7	PPB																
FT 6122-101.20A		20	PPB																
FT 6122-101.21A		20	PPB																
FT 6122-101.22A		20	PPB																
FT 6122-101.23A		20	PPB																
FT 6122-101.24A		20	PPB																
FT 6122-101.25A		20	PPB																
FT 6122-101.26A		20	PPB																
FT 6122-101.27A		20	PPB																
FT 6122-101.28A		20	PPB																
FT 6122-101.29A		20	PPB																
FT 6122-101.30A		20	PPB																
FT 6122-101.31A		20	PPB																
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FT 6122-101.56A		20	PPB																
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FT 6122-101.63A		20	PPB																
FT 6122-101.64A		20	PPB																
FT 6122-101.65A		20	PPB																
FT 6122-101.66A		20	PPB																
FT 6122-101.67A		20	PPB																
FT 6122-101.68A		20	PPB																
FT 6122-101.69A		20	PPB																
FT 6122-101.70A		20	PPB																
FT 6122-101.71A		20	PPB																
FT 6122-101.72A		20	PPB																
FT 6122-101.73A		20	PPB																
FT 6122-101.74A		20	PPB																
FT 6122-101.75A		20	PPB																
FT 6122-101.76A		20	PPB																
FT 6122-101.77A		20	PPB																
FT 6122-101.78A		20	PPB																
FT 6122-101.79A		20	PPB																
FT 6122-101.80A		20	PPB																
FT 6122-101.81A		20	PPB																
FT 6122-101.82A		20	PPB																
FT 6122-101.83A		20	PPB																
FT 6122-101.84A		20	PPB																
FT 6122-101.85A		20	PPB																
FT 6122-101.86A		20	PPB																
FT 6122-101.87A		20	PPB																
FT 6122-101.88A		20	PPB																
FT 6122-101.89A		20	PPB																
FT 6122-101.90A		20	PPB																
FT 6122-101.91A		20	PPB																
FT 6122-101.92A		20	PPB																
FT 6122-101.93A		20	PPB																
FT 6122-101.94A		20	PPB																
FT 6122-101.95A		20	PPB																
FT 6122-101.96A		20	PPB																
FT 6122-101.97A		20	PPB																
FT 6122-101.98A		20	PPB																
FT 6122-101.99A		20	PPB																
FT 6122-101.100A		20	PPB																

Note:

"M" means that the compound was not detected under the experimental conditions used

Table 1. GC/MS Data for Trench 218-W-4C of the Low-Level Burial Ground. (sheet 2)

[illegible]

Note:
M means that the compound was not detected under the experimental conditions used

Table 2. GC/MS Data for Trench 218-W-5 #31 of the Low-Level Burial Ground. (sheet 1)

SAMPLE NUMBER	COMMENTS	FILE NAME	CONCENTRATION	ISOBUTANE	VINYL CHLORIDE	ETHANOL	ACETONE	PROPANOL	1,1-DICHLOROETHYLENE	PERC 113	1,1-DICHLOROETHANE	1,1-DICHLOROETHYLENE	2-BUTANONE	N-HEXANE	1,2-DICHLOROETHYLENE	CHLOROFORM	TETRAHYDROFURAN	1,1-TRICHLOROETHANE	1,2-DICHLOROETHANE	BENZENE	CARBON TETRACHLORIDE	ISOBUTANOL	1-METHOXY-2-PROPANOL
FTS105-P31.01A	Downward, Arc #1	91895_11.D	PPB	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
FTS105-P31.2A	Downward, Arc #1	91895_7.D	PPB	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
FTS105-P31.03A	Upward, Arc #1	91895_2.D	PPB	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
FTS105-P31.04A	Upward, Arc #1	91895_14.D	PPB	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
FTS105-P31.05A	Upward, Arc #1	91795_14.D	PPB	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
FTS105-P31.06A	Upward, Arc #2	91795_7.D	PPB	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
FTS105-P31.17A	Upward, Arc #2	91795_7.D	PPB	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
FTS105-P31.18A	Upward, Arc #2	91795_5.D	PPB	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
FTS105-P31.09A	Upward, Arc #2	91895_8.D	PPB	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
FTS105-P31.10A	Upward, Arc #2	91895_13.D	PPB	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
FTS105-P31.11A	Upward, Arc #2	92095_3.D	PPB	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
FTS105-P31.13A	Upward, Arc #3	91795_4.D	PPB	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
FTS105-P31.14A	Upward, Arc #3	91895_5.D	PPB	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
FTS105-P31.15A	Upward, Arc #3	91795_12.D	PPB	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
FTS105-P31.16A	Upward, Arc #3	91795_8.D	PPB	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
FTS105-P31.22A	Downward, Arc #2	91895_7.D	PPB	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
FTS105-P31.23A	Downward, Arc #2	91895_5.D	PPB	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
FTS105-P31.24A	Downward, Arc #2	91795_15.D	PPB	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
FTS105-P31.25A	Downward, Arc #2	91895_12.D	PPB	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
FTS105-P31.26A	Downward, Arc #2	91895_12.D	PPB	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
FTS105-P31.27A	Downward, Arc #2	91895_9.D	PPB	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
FTS105-P31.28A	Downward, Arc #3	91895_3.D	PPB	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
FTS105-P31.30A	Downward, Arc #3	91895_2.D	PPB	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
FTS105-P31.31A	Downward, Arc #3	91895_10.D	PPB	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
FTS105-P31.32A	Downward, Arc #3	91795_3.D	PPB	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
FTS105-P31.33A	Downward, Arc #3	91895_2.D	PPB	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
FTS105-P31.34A	Downward, Arc #3	91895_4.D	PPB	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
FTS105-P31.35A	Downward, Arc #3	91895_4.D	PPB	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
FTS105-P31.36A	Downward, Arc #3	91895_6.D	PPB	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
FTS105-TR-21A	Tripp Blank	91895_4.D	PPB	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M

Note:
"M" means that the compound was not detected under the experimental conditions used

Table 2. GC/MS Data for Trench 218-W-5 #31 of the Low-Level Burial Ground. (sheet 2)

[illegible]

Note: "N" means that the compound was not detected under the experimental conditions used

5.1 218-W-4C

5.1.1 Trench 1

The data in Table 1 show that the vent pipes in the middle of trench # 1 had elevated concentrations of many VOCs. They were generally chlorinated hydrocarbons, such as Freon 113 (up to 91 ppbv), dichloromethane (380 ppbv), 1,1-dichloroethane (166 ppbv), chloroform (49 ppbv), 1,1,1-trichloroethane (770 ppbv), 1,2-dichloroethane (154 ppbv), carbon tetrachloride (220 ppbv), trichloroethene (495 ppbv), and tetrachloroethene (302 ppbv). Minor concentrations of aromatic hydrocarbons were detected: benzene (27 ppbv), toluene (19 ppbv), ethylbenzene (18 ppbv), and xylenes (27 ppbv total). Polar compounds such as alcohols and ketones were generally very low (< 25 ppbv). Two samples showed the presence of tetrahydrofuran (82 ppbv). One vent tube had high concentrations of iso-butane (278 ppbv).

Non-target compounds are listed in Appendix A. Many samples had trichloro-fluoromethane, a Freon gas (Freon 11). One SUMMA sample probably contained 1-chlorobutane.

5.1.2 Trench 4

This trench was also dominated by chlorinated VOCs: Freon 113 (maximum concentration 241 ppbv), dichloromethane (220 ppbv), 1,1-dichloroethane (55 ppbv), chloroform (244 ppbv), 1,1,1-trichloroethane (527 ppbv), carbon tetrachloride (1,183 ppbv), trichloroethene (224 ppbv), and tetrachloroethene (829 ppbv). Other compounds were generally below 50 ppbv except for 2-butanone which occurred in one pipe at 1,204 ppbv.

The library searches showed that trichlorofluoromethane (Freon 11) was present in several samples. No quantitation was possible because no internal or external standards were available. Based on comparison with the height of other peaks in the chromatogram, the concentration is estimated quite high. Other TICs found in these samples include chloroethane, 1-chlorobutane, carbonochloridic acid butyl ester, trichloroacetic acid, and 1,2-dichloropropane.

5.1.3 Trench 7

The four vent pipes in this trench were consistently high in carbon tetrachloride (up to 2,062 ppbv), Freon 113 (1,064 ppbv), chloroform (611 ppbv), and trichloroethane (155 ppbv). One vent contained 144 ppbv of trichloroethene.

The TICs from this trench include 1,2-dichloro-1,1,2-trifluoroethane, trichlorofluoromethane, propanamid, and naphthalene.

5.1.4 Trench 20

Three samples from two vents (one is a duplicate) from this partially filled trench were analyzed. With the exception of carbon tetrachloride (up to 166 ppbv), the concentrations of VOCs were below 10 ppbv.

The dominant TIC in both samples was trichlorofluoromethane (Freon 11).

5.2 218-W-5 # 31

Table 2 shows the GC/MS data for the SUMMATM ambient air samples collected at this preoperational waste site. The results are organized in three groupings representing the sampling locations in three concentric arcs and by wind direction (upwind and downwind). The data consistently show that no VOCs were detectable above the MDL of 10 ppbv. The data are representative for the wind direction predominant at the time of sampling (northeast).

6.0 CONCLUSIONS AND RECOMMENDATIONS

The samples collected from vent tubes at the 218-W-4C site show significant concentrations of organic compounds, especially chlorinated compounds: 1,1,1-trichloroethane, trichloroethene, carbon tetrachloride, tetrachloroethene, and chloroform occurred at some locations in concentration exceeding 500 ppbv. Chlorofluorocarbons such as 1,1,2-trichloro-1,2,2-trifluoroethane (Freon 113) and trichlorofluoromethane (Freon 11, a TIC) also were prevalent in most samples. Polar compounds such as alcohols (ethanol, isopropanol, n-butanol) and ketones (acetone, 4-methyl-pentanone) were detected only at very low concentrations (< 25 ppbv); the exception was 2-butanone which occurred in one pipe at 1,200 ppbv. Aromatic compounds such as benzene, toluene, xylenes, trimethylbenzenes, dichlorobenzenes also were found only at low concentrations (< 50 ppbv). The background samples collected from the ambient air on top of the waste trenches did not show any VOCs above the detection limit.

The purpose of this study was to establish a baseline for the VOCs at the LLBG. The data do not allow any conclusions about quantitative air emissions. The samples were collected inside the vent tubes after a one minute purge time. It is not known at what rate the vent tubes exchange VOCs with the outside atmosphere. The plastic tubes are covered with a treaded plastic cap; the seal between tube and cap varied considerably on the sampled vents from very loose to quite tight. The data provide qualitative information on the type of compounds venting from the pipes of the 218-W-4C LLBG. Additional sampling and analyses are needed to determine the breathing rates of the vents. This can be done by collecting integrated samples at the vent exit over a time interval.

The data from the 218-W-5 # 31 site show that extremely low levels of VOCs (< 10 ppbv) were present in the ambient air at the time of sampling. The dominant wind direction during collection was from northeast. The data could indicate that no significant concentrations of VOCs are emitted by other Hanford Site operations located in that direction. Additional sampling is needed to determine the fugitive emissions coming from other wind directions. The contribution of the 200 West Tank Farm operation, i.e., the wind blowing from due south and west is especially critical.

7.0 REFERENCES

Clean Air Act of 1997, 42 USC 7401 et seq.

Lockrem, L. L., 1996a, *218-W-4C and 4B Vent Pipes Air Sampling*, WHC-SD-WM-WAP-006, Rev. 0, Westinghouse Hanford Company, Richland, Washington.

Lockrem, L. L., 1996b, *218-W-5 Trenches 31 and 34 Baseline Air Sampling*, WHC-SD-WM-WAP-004, Rev. 0, Westinghouse Hanford Company, Richland, Washington.

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Winberry, W. T., N. T. Murphy, and R. M. Riggan (eds.), 1990, "Determination of Volatile Organic Compounds in Ambient Air Using SUMMA Passivated Canister Sampling and Gas Chromatographic Analysis," *Methods for Determination of Toxic Organic Compounds in Air*, Noyes Data Corporation, New Jersey.

WHC-N-499 #1, 1991, Controlled Logbook, *Cryogenic Trapping of Tank Headspace*, (issued to L. A. Pingel, April 8), Westinghouse Hanford Company, Richland, Washington.

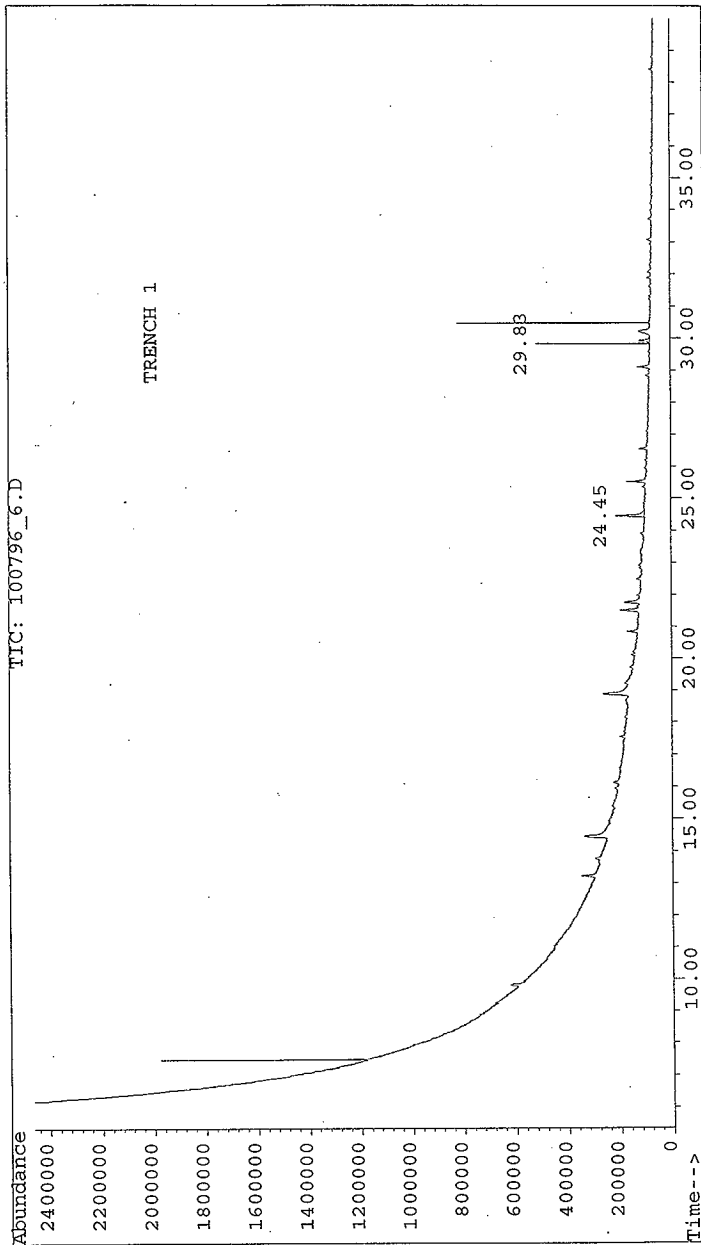
WHC-N-1236 #1, 1995, Controlled Logbook, *Maintenance and Run Log for Hewlett-Packard GC/FTIRMS*, (issued to R. S. Viswanath, August 9) , Westinghouse Hanford Company, Richland, Washington.

APPENDIX A

**ANALYTICAL DATA FOR SAMPLING AND ANALYSIS OF AIR
AT TRENCH 218-W-4C OF THE LOW-LEVEL BURIAL GROUND**

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File : C:\HPCHEM\1\DATA\100796_6.D
Operator : MS
Acquired : 10 Jun 153 12:50 am using AcqMethod CWC
Instrument : 5972 - In
Sample Name: FT 6122-T01.01A
Misc Info : 100 TORR
Vial Number: 1



ANALYSIS REPORT FOR CWC AIR SAMPLES

File Name: 100796_6.D
 Analyst: MS
 Analysis Date: #VALUE!
 Method: CWC
 Sample Name: FT 6122-T01.01A

COMPOUND NAME	CAS #	Concentration	Units	Comments
ISO-BUTANE	75-28-5	0	PPB	
VINYL CHLORIDE	75-01-4	0	PPB	
ETHANOL	64-17-5	0	PPB	
ACETONE	67-64-1	0	PPB	
2-PROPANOL	67-63-0	0	PPB	
1,1-DICHLOROETHENE	75-35-4	0	PPB	
FREON 113	76-13-1	0	PPB	
DICHLOROMETHANE	75-09-2	0	PPB	
1,1-DICHLOROETHANE	75-34-3	0	PPB	
2-BUTANONE	78-93-3	0	PPB	
N-HEXANE	110-54-3	0	PPB	
1,2-DICHLOROETHENE	156-59-2	0	PPB	
CHLOROFORM	67-66-3	0	PPB	
TETRAHYDROFURAN	109-99-9	0	PPB	
1,1,1-TRICHLOROETHANE	71-55-6	0	PPB	
1,2-DICHLOROETHANE	107-06-2	0	PPB	
BENZENE	71-43-2	0	PPB	
CARBON TETRACHLORIDE	56-23-5	0	PPB	
CYCLOHEXANE	110-82-7	0	PPB	
N-BUTANOL	71-36-3	0	PPB	
TRICHLOROETHENE	79-01-6	0	PPB	
4-METHYL-2-PENTANONE	108-10-1	0	PPB	
TOLUENE	108-88-3	2	PPB	
1,1,2-TRICHLOROETHANE	79-00-5	0	PPB	
TETRACHLOROETHENE	127-18-4	0	PPB	
CHLOROBENZENE	108-90-7	0	PPB	
ETHYLBENZENE	100-41-4	1	PPB	
M-XYLENE	108-38-3	0	PPB	
STYRENE	100-42-5	0	PPB	
O-XYLENE	95-47-6	0	PPB	
1,1,2,2-TETRACHLOROETHANE	79-34-5	0	PPB	
1,3,5-TRIMETHYLBENZENE	108-67-8	0	PPB	
1,2,4-TRIMETHYLBENZENE	95-63-6	0	PPB	
1,3-DICHLOROBENZENE	541-73-1	0	PPB	
1,2-DICHLOROBENZENE	95-50-1	0	PPB	
1,4-DICHLOROBENZENE	106-46-7	0	PPB	

Trench 1 # 1

Information from Data File:

File : C:\HPCHEM\1\DATA\100796_6.D

Operator : MS

Acquired : 10 Jun 153 12:50 am using AcqMethod CWC

Sample Name: FT 6122-T01.01A

Misc Info : 100 TORR

Vial Number: 1

Search Libraries: C:\DATABASE\WILEY138.L Minimum Quality: 70
C:\DATABASE\NBS54K.L Minimum Quality: 70

Unknown Spectrum: Apex

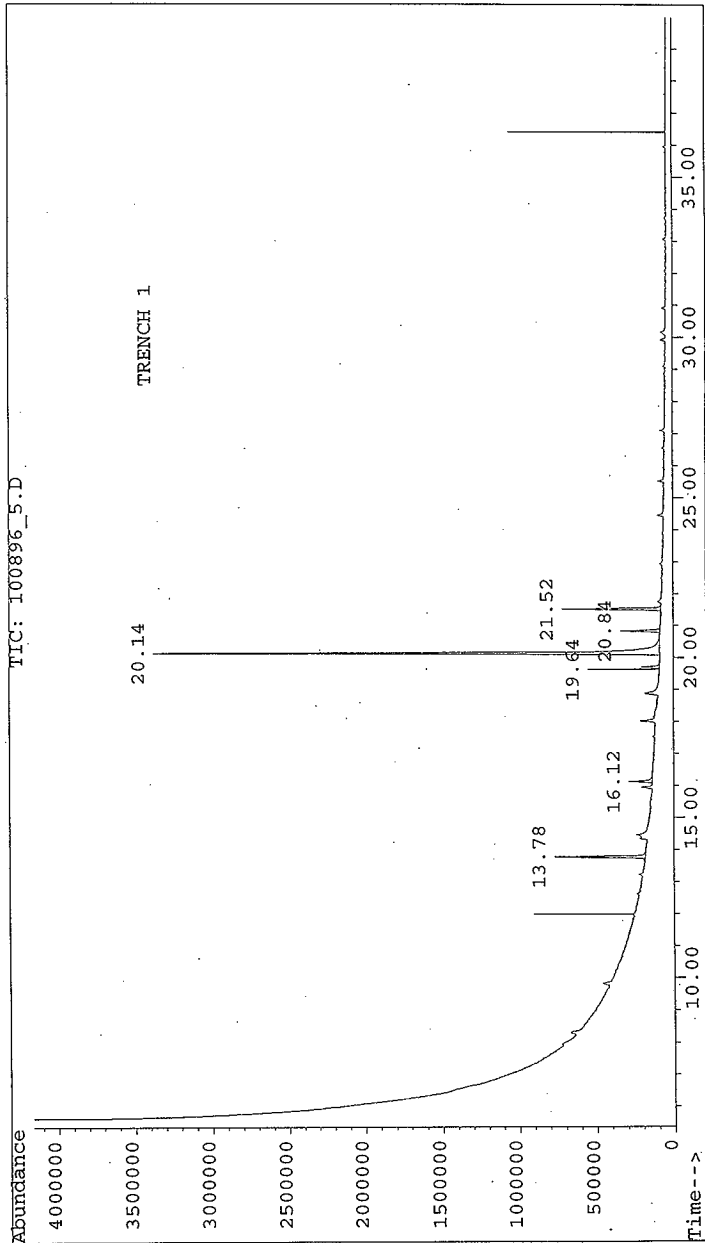
Integration Params: VOA.E

PK#	RT	Area%	Library/ID	Ref#	CAS#	Qual
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13	25.52	4.04	C:\DATABASE\WILEY138.L Benzene, methyl-	117431	000108-88-3	90
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16	29.10	3.08	C:\DATABASE\WILEY138.L Benzene, 1,2-dimethyl-	118571	000095-47-6	91
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File : C:\HPCHEM\1\DATA\100896_5.D
Operator : MS
Acquired : 10 Jun 153 8:20 pm using AcqMethod CWC
Instrument : 5972 - In
Sample Name: FT 6122-T01.02A
Misc Info : 100 TORR
Vial Number: 1



ANALYSIS REPORT FOR CWC AIR SAMPLES

File Name: 100896_5.D
 Analyst: MS
 Analysis Date: #VALUE!
 Method: CWC
 Sample Name: FT 6122-T01.02A

COMPOUND NAME	CAS #	Concentration	Units	Comments
ISO-BUTANE	75-28-5	2	PPB	
VINYL CHLORIDE	75-01-4	0	PPB	
ETHANOL	64-17-5	0	PPB	
ACETONE	67-64-1	0	PPB	
2-PROPANOL	67-63-0	0	PPB	
1,1-DICHLOROETHENE	75-35-4	0	PPB	
FREON 113	76-13-1	0	PPB	
DICHLOROMETHANE	75-09-2	4	PPB	
1,1-DICHLOROETHANE	75-34-3	0	PPB	
2-BUTANONE	78-93-3	0	PPB	
N-HEXANE	110-54-3	0	PPB	
1,2-DICHLOROETHENE	156-59-2	0	PPB	
CHLOROFORM	67-66-3	4	PPB	
TETRAHYDROFURAN	109-99-9	82	PPB	
1,1,1-TRICHLOROETHANE	71-55-6	9	PPB	
1,2-DICHLOROETHANE	107-06-2	0	PPB	
BENZENE	71-43-2	0	PPB	
CARBON TETRACHLORIDE	56-23-5	33	PPB	
CYCLOHEXANE	110-82-7	10	PPB	
N-BUTANOL	71-36-3	0	PPB	
TRICHLOROETHENE	79-01-6	0	PPB	
4-METHYL-2-PENTANONE	108-10-1	0	PPB	
TOLUENE	108-88-3	0	PPB	
1,1,2-TRICHLOROETHANE	79-00-5	0	PPB	
TETRACHLOROETHENE	127-18-4	0	PPB	
CHLOROBENZENE	108-90-7	0	PPB	
ETHYLBENZENE	100-41-4	0	PPB	
M-XYLENE	108-38-3	0	PPB	
STYRENE	100-42-5	0	PPB	
O-XYLENE	95-47-6	0	PPB	
1,1,2,2-TETRACHLOROETHANE	79-34-5	0	PPB	
1,3,5-TRIMETHYLBENZENE	108-67-8	0	PPB	
1,2,4-TRIMETHYLBENZENE	95-63-6	0	PPB	
1,3-DICHLOROBENZENE	541-73-1	0	PPB	
1,2-DICHLOROBENZENE	95-50-1	0	PPB	
1,4-DICHLOROBENZENE	106-46-7	0	PPB	

Trench 1 # 2

Information from Data File:

File : C:\HPCHEM\1\DATA\100896_5.D

Operator : MS

Acquired : 10 Jun 13 8:20 pm using AcqMethod CWC

Sample Name: FT 6122-T01.02A

Misc Info : 100 TORR

Vial Number: 1

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C:\DATABASE\NBS54K.L Minimum Quality: 70

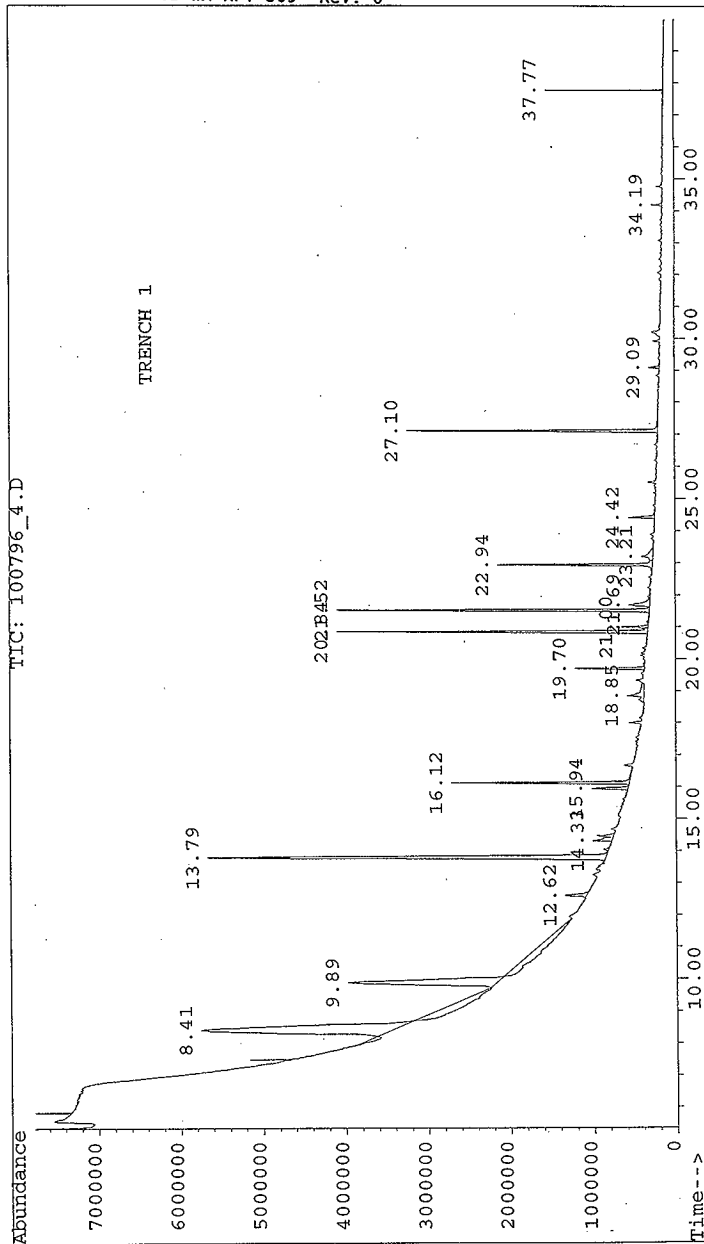
Unknown Spectrum: Apex

Integration Params: VOA.E

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
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8	16.13	2.36	C:\DATABASE\WILEY138.L Methane, dichloro-	116806	000075-09-2	90
12	19.71	1.67	C:\DATABASE\WILEY138.L Chloroform	119703	000067-66-3	86
13	20.14	54.90	C:\DATABASE\WILEY138.L Furan, tetrahydro-	116444	000109-99-9	90
15	21.52	8.68	C:\DATABASE\WILEY138.L Methane, tetrachloro-	123819	000056-23-5	90
19	25.52	0.69	C:\DATABASE\WILEY138.L Benzene, methyl-	117429	000108-88-3	86

File : C:\HPCHEM\1\DATA\100796_4.D
Operator : MS
Acquired : 9 Jun 153 10:47 pm using AcqMethod CWC
Instrument : 5972 - In
Sample Name: FT 6122-T01.03A
Misc Info : 100 TORR
Vial Number: 1



ANALYSIS REPORT FOR CWC AIR SAMPLES

File Name: 100796_4.D
 Analyst: MS
 Analysis Date: #VALUE!
 Method: CWC
 Sample Name: FT 6122-T01.03A

COMPOUND NAME	CAS #	Concentration	Units	Comments
ISO-BUTANE	75-28-5	278	PPB	
VINYL CHLORIDE	75-01-4	0	PPB	
ETHANOL	64-17-5	10	PPB	
ACETONE	67-64-1	12	PPB	
2-PROPANOL	67-63-0	5	PPB	
1,1-DICHLOROETHENE	75-35-4	0	PPB	
FREON 113	76-13-1	9	PPB	
DICHLOROMETHANE	75-09-2	55	PPB	
1,1-DICHLOROETHANE	75-34-3	7	PPB	
2-BUTANONE	78-93-3	17	PPB	
N-HEXANE	110-54-3	2	PPB	
1,2-DICHLOROETHENE	156-59-2	0	PPB	
CHLOROFORM	67-66-3	24	PPB	
TETRAHYDROFURAN	109-99-9	0	PPB	
1,1,1-TRICHLOROETHANE	71-55-6	137	PPB	
1,2-DICHLOROETHANE	107-06-2	4	PPB	
BENZENE	71-43-2	0	PPB	
CARBON TETRACHLORIDE	56-23-5	220	PPB	
CYCLOHEXANE	110-82-7	60	PPB	
N-BUTANOL	71-36-3	19	PPB	
TRICHLOROETHENE	79-01-6	72	PPB	
4-METHYL-2-PENTANONE	108-10-1	0	PPB	
TOLUENE	108-88-3	2	PPB	
1,1,2-TRICHLOROETHANE	79-00-5	0	PPB	
TETRACHLOROETHENE	127-18-4	74	PPB	
CHLOROBENZENE	108-90-7	0	PPB	
ETHYLBENZENE	100-41-4	1	PPB	
M-XYLENE	108-38-3	3	PPB	
STYRENE	100-42-5	0	PPB	
O-XYLENE	95-47-6	2	PPB	
1,1,2,2-TETRACHLOROETHANE	79-34-5	0	PPB	
1,3,5-TRIMETHYLBENZENE	108-67-8	0	PPB	
1,2,4-TRIMETHYLBENZENE	95-63-6	0	PPB	
1,3-DICHLOROBENZENE	541-73-1	0	PPB	
1,2-DICHLOROBENZENE	95-50-1	0	PPB	
1,4-DICHLOROBENZENE	106-46-7	0	PPB	

Trench 1, # 3

Information from Data File:

File : C:\HPCHEM\1\DATA\100796_4.D

Operator : MS

Acquired : 9 Jun 153 10:47 pm using AcqMethod CWC

Sample Name: FT 6122-T01.03A

Misc Info : 100 TORR

Vial Number: 1

Search Libraries: C:\DATABASE\WILEY138.L Minimum Quality: 70
C:\DATABASE\NBS54K.L Minimum Quality: 70

Unknown Spectrum: Apex

Integration Params: VOA.E

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
-----	----	-------	------------	------	------	------

9	13.80	15.08	C:\DATABASE\WILEY138.L			
			Methane, trichlorofluoro-	121756	000075-69-4	90

18	16.12	4.02	C:\DATABASE\WILEY138.L			
			Methane, dichloro-	116806	000075-09-2	90

34	20.84	7.05	C:\DATABASE\WILEY138.L			
			Ethane, 1,1,1-trichloro-	121292	000071-55-6	80

37	21.52	7.21	C:\DATABASE\WILEY138.L			
			Methane, tetrachloro-	123819	000056-23-5	90

41	22.94	3.26	C:\DATABASE\WILEY138.L			
			Ethene, trichloro-	6227	000079-01-6	99

54	27.10	5.63	C:\DATABASE\WILEY138.L			
			Ethene, tetrachloro-	125230	000127-18-4	97

File : C:\HPCHEM\1\DATA\100796_7.D

Operator : MS

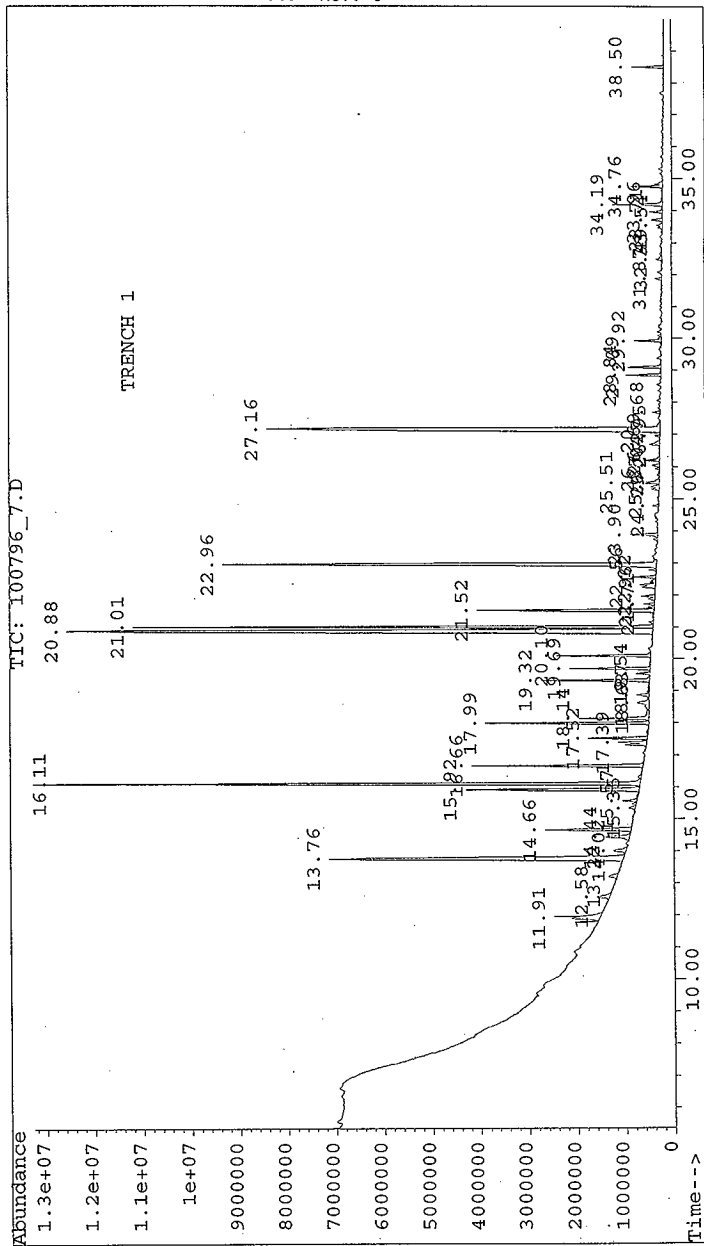
Acquired : 10 Jun 153 2:02 am using AcqMethod CWC

Instrument : 5972 - In

Sample Name: FT 6122-T01.04A

Misc Info : 100 TORR

Vial Number: 1



ANALYSIS REPORT FOR CWC AIR SAMPLES

File Name: 100796_7.D
 Analyst: MS
 Analysis Date: #VALUE!
 Method: CWC
 Sample Name: FT 6122-T01.04A

COMPOUND NAME	CAS #	Concentration	Units	Comments
ISO-BUTANE	75-28-5	0	PPB	
VINYL CHLORIDE	75-01-4	0	PPB	
ETHANOL	64-17-5	0	PPB	
ACETONE	67-64-1	0	PPB	
2-PROPANOL	67-63-0	2	PPB	
1,1-DICHLOROETHENE	75-35-4	3	PPB	
FREON 113	76-13-1	91	PPB	
DICHLOROMETHANE	75-09-2	380	PPB	
1,1-DICHLOROETHANE	75-34-3	166	PPB	
2-BUTANONE	78-93-3	0	PPB	
N-HEXANE	110-54-3	6	PPB	
1,2-DICHLOROETHENE	156-59-2	0	PPB	
CHLOROFORM	67-66-3	49	PPB	
TETRAHYDROFURAN	109-99-9	0	PPB	
1,1,1-TRICHLOROETHANE	71-55-6	770	PPB	
1,2-DICHLOROETHANE	107-06-2	154	PPB	
BENZENE	71-43-2	27	PPB	
CARBON TETRACHLORIDE	56-23-5	195	PPB	
CYCLOHEXANE	110-82-7	63	PPB	
N-BUTANOL	71-36-3	19	PPB	
TRICHLOROETHENE	79-01-6	495	PPB	
4-METHYL-2-PENTANONE	108-10-1	0	PPB	
TOLUENE	108-88-3	19	PPB	
1,1,2-TRICHLOROETHANE	79-00-5	4	PPB	
TETRACHLOROETHENE	127-18-4	302	PPB	
CHLOROBENZENE	108-90-7	0	PPB	
ETHYLBENZENE	100-41-4	18	PPB	
M-XYLENE	108-38-3	13	PPB	
STYRENE	100-42-5	0	PPB	
O-XYLENE	95-47-6	14	PPB	
1,1,2,2-TETRACHLOROETHANE	79-34-5	0	PPB	
1,3,5-TRIMETHYLBENZENE	108-67-8	0	PPB	
1,2,4-TRIMETHYLBENZENE	95-63-6	0	PPB	
1,3-DICHLOROBENZENE	541-73-1	3	PPB	
1,2-DICHLOROBENZENE	95-50-1	3	PPB	
1,4-DICHLOROBENZENE	106-46-7	0	PPB	

Trench 1, # 4

Information from Data File:

File : C:\HPCHEM\1\DATA\100796_7.D
 Operator : MS
 Acquired : 10 Jun 153 2:02 am using AcqMethod CWC
 Sample Name: FT 6122-T01.04A
 Misc Info : 100 TORR
 Vial Number: 1

Search Libraries: C:\DATABASE\WILEY138.L Minimum Quality: 70
 C:\DATABASE\NBS54K.L Minimum Quality: 70

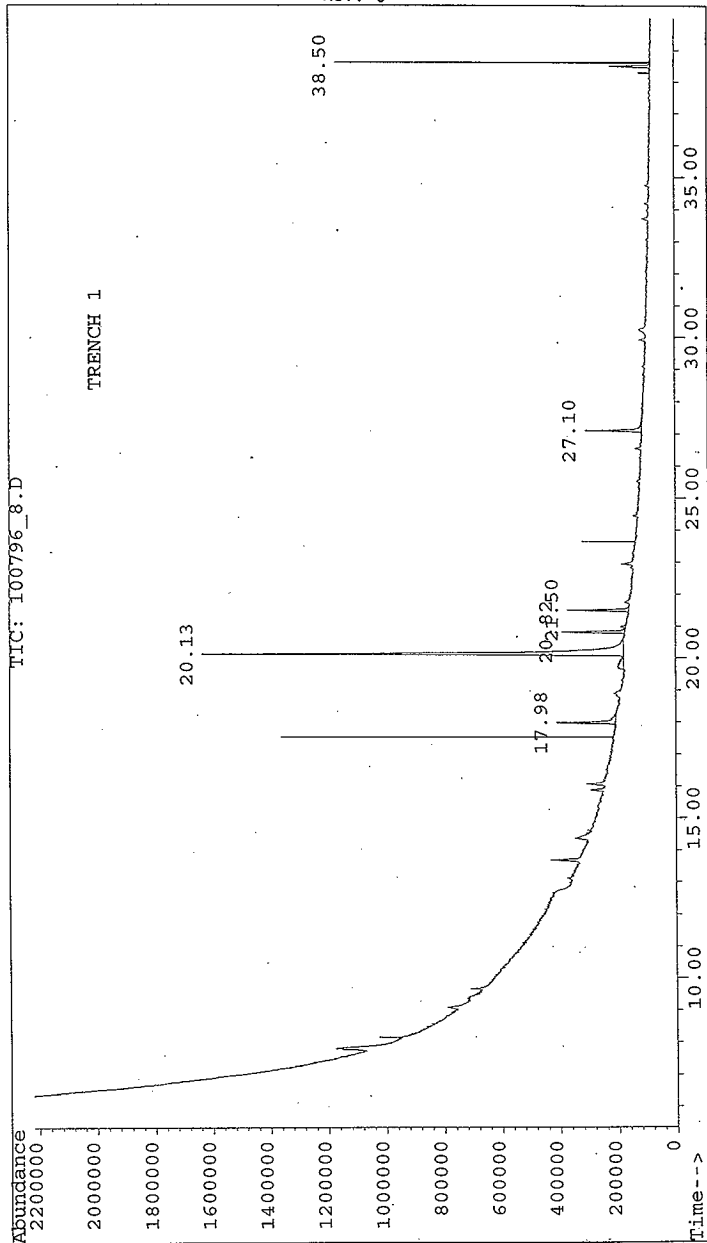
Unknown Spectrum: Apex
 Integration Params: VOA.E

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
10	13.76	7.63	C:\DATABASE\WILEY138.L Methane, trichlorofluoro-	121756	000075-69-4	90
19	15.92	2.98	C:\DATABASE\WILEY138.L Ethane, 1,1,2-trichloro-1,2,2-trifluo	127304	000076-13-1	86
20	16.10	9.16	C:\DATABASE\WILEY138.L Methane, dichloro-	116806	000075-09-2	91
28	17.99	2.12	C:\DATABASE\WILEY138.L Ethane, 1,1-dichloro-	117653	000075-34-3	91
43	21.01	6.15	C:\DATABASE\WILEY138.L Butane, 1-chloro-	117418	000109-69-3	72
46	21.52	2.62	C:\DATABASE\WILEY138.L Methane, tetrachloro-	123819	000056-23-5	90
56	22.97	8.12	C:\DATABASE\WILEY138.L Ethene, trichloro-	121020	000079-01-6	99
66	25.30	0.10	C:\DATABASE\WILEY138.L 1-Propanamine, N,2-dimethyl-	152	000625-43-4	72

Trench 1, # 4 (continued)

68	25.51	0.51	C:\DATABASE\WILEY138.L	
			Benzene, methyl-	117433 000108-88-3 90
85	28.84	0.41	C:\DATABASE\WILEY138.L	
			Benzene, ethyl-	118558 000100-41-4 91
87	29.09	0.49	C:\DATABASE\WILEY138.L	
			Benzene, 1,2-dimethyl-	118571 000095-47-6 91
92	29.92	0.40	C:\DATABASE\WILEY138.L	
			Benzene, 1,4-dimethyl-	118587 000106-42-3 89

File : C:\HPCHEM\1\DATA\100796_8.D
Operator : MS
Acquired : 10 Jun 153 2:56 am using AcqMethod CWC
Instrument : 5972 - In
Sample Name: FT 6122-T01.05A
Misc Info : 100 TORR
Vial Number: 1



ANALYSIS REPORT FOR CWC AIR SAMPLES

File Name: 100796_8.D
 Analyst: MS
 Analysis Date: #VALUE!
 Method: CWC
 Sample Name: FT 6122-T01.05A

COMPOUND NAME	CAS #	Concentration	Units	Comments
ISO-BUTANE	75-28-5	0	PPB	
VINYL CHLORIDE	75-01-4	3	PPB	
ETHANOL	64-17-5	0	PPB	
ACETONE	67-64-1	0	PPB	
2-PROPANOL	67-63-0	0	PPB	
1,1-DICHLOROETHENE	75-35-4	0	PPB	
FREON 113	76-13-1	0	PPB	
DICHLOROMETHANE	75-09-2	0	PPB	
1,1-DICHLOROETHANE	75-34-3	0	PPB	
2-BUTANONE	78-93-3	0	PPB	
N-HEXANE	110-54-3	0	PPB	
1,2-DICHLOROETHENE	156-59-2	0	PPB	
CHLOROFORM	67-66-3	0	PPB	
TETRAHYDROFURAN	109-99-9	43	PPB	
1,1,1-TRICHLOROETHANE	71-55-6	8	PPB	
1,2-DICHLOROETHANE	107-06-2	0	PPB	
BENZENE	71-43-2	0	PPB	
CARBON TETRACHLORIDE	56-23-5	11	PPB	
CYCLOHEXANE	110-82-7	0	PPB	
N-BUTANOL	71-36-3	0	PPB	
TRICHLOROETHENE	79-01-6	0	PPB	
4-METHYL-2-PENTANONE	108-10-1	0	PPB	
TOLUENE	108-88-3	0	PPB	
1,1,2-TRICHLOROETHANE	79-00-5	0	PPB	
TETRACHLOROETHENE	127-18-4	4	PPB	
CHLOROBENZENE	108-90-7	0	PPB	
ETHYLBENZENE	100-41-4	0	PPB	
M-XYLENE	108-38-3	0	PPB	
STYRENE	100-42-5	0	PPB	
O-XYLENE	95-47-6	0	PPB	
1,1,2,2-TETRACHLOROETHANE	79-34-5	0	PPB	
1,3,5-TRIMETHYLBENZENE	108-67-8	0	PPB	
1,2,4-TRIMETHYLBENZENE	95-63-6	0	PPB	
1,3-DICHLOROBENZENE	541-73-1	0	PPB	
1,2-DICHLOROBENZENE	95-50-1	0	PPB	
1,4-DICHLOROBENZENE	106-46-7	0	PPB	

Trench 1, # 5

Information from Data File:

File : C:\HPCHEM\1\DATA\100796_8.D

Operator : MS

Acquired : 10 Jun 153 2:56 am using AcqMethod CWC

Sample Name: FT 6122-T01.05A

Misc Info : 100 TORR

Vial Number: 1

Search Libraries: C:\DATABASE\WILEY138.L Minimum Quality: 70
C:\DATABASE\NBS54K.L Minimum Quality: 70

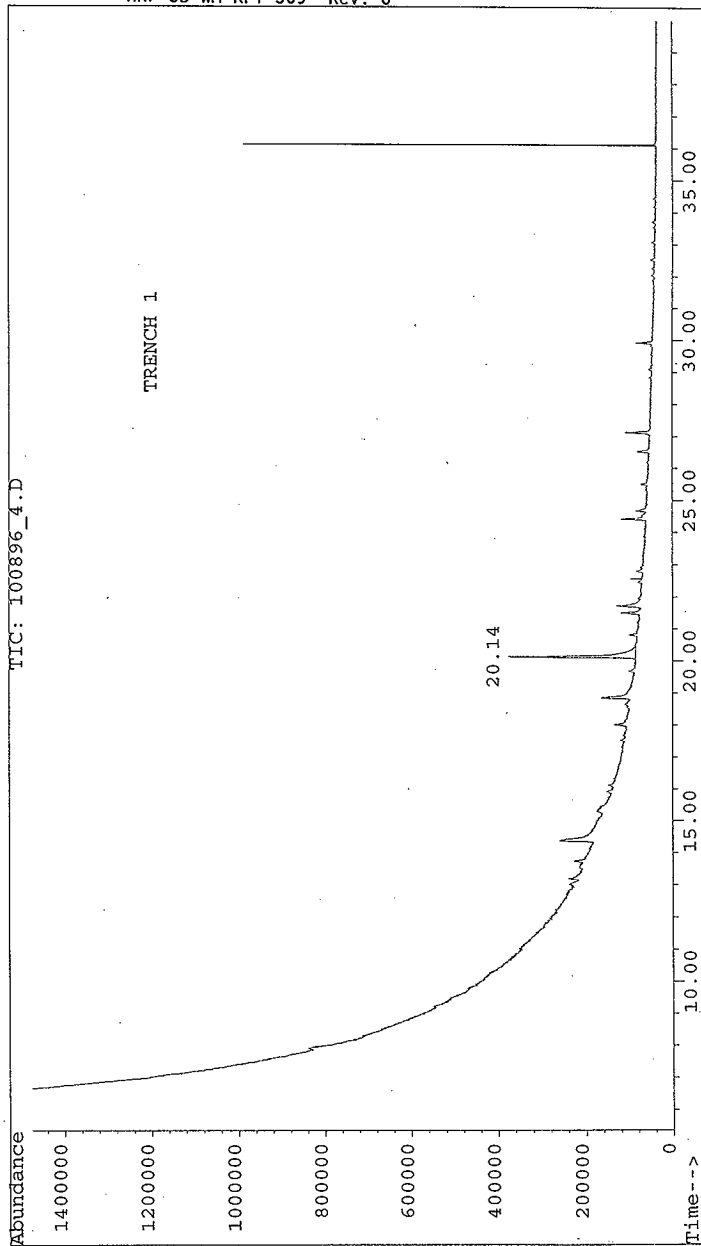
Unknown Spectrum: Apex

Integration Params: VOA.E

PK#	RT	Area%	Library/ID	Ref#	CAS#	Qual
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11	20.12	47.16	C:\DATABASE\WILEY138.L Furan, tetrahydro-	116445	000109-99-9	86
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File : C:\HPCHEM\1\DATA\100896_4.D
Operator : MS
Acquired : 10 Jun 153 7:11 pm using AcqMethod CWC
Instrument : 5972 - In
Sample Name: FT 6122-T01.05B
Misc Info : 100 TORR
Vial Number: 1



ANALYSIS REPORT FOR CWC AIR SAMPLES

File Name: 100896_4.D
 Analyst: MS
 Analysis Date: #VALUE!
 Method: CWC
 Sample Name: FT 6122-T01.05B

COMPOUND NAME	CAS #	Concentration	Units	Comments
ISO-BUTANE	75-28-5	0	PPB	
VINYL CHLORIDE	75-01-4	0	PPB	
ETHANOL	64-17-5	0	PPB	
ACETONE	67-64-1	3	PPB	
2-PROPANOL	67-63-0	0	PPB	
1,1-DICHLOROETHENE	75-35-4	0	PPB	
FREON 113	76-13-1	0	PPB	
DICHLOROMETHANE	75-09-2	0	PPB	
1,1-DICHLOROETHANE	75-34-3	0	PPB	
2-BUTANONE	78-93-3	0	PPB	
N-HEXANE	110-54-3	0	PPB	
1,2-DICHLOROETHENE	156-59-2	0	PPB	
CHLOROFORM	67-66-3	0	PPB	
TETRAHYDROFURAN	109-99-9	8	PPB	
1,1,1-TRICHLOROETHANE	71-55-6	0	PPB	
1,2-DICHLOROETHANE	107-06-2	0	PPB	
BENZENE	71-43-2	0	PPB	
CARBON TETRACHLORIDE	56-23-5	0	PPB	
CYCLOHEXANE	110-82-7	0	PPB	
N-BUTANOL	71-36-3	0	PPB	
TRICHLOROETHENE	79-01-6	0	PPB	
4-METHYL-2-PENTANONE	108-10-1	0	PPB	
TOLUENE	108-88-3	0	PPB	
1,1,2-TRICHLOROETHANE	79-00-5	0	PPB	
TETRACHLOROETHENE	127-18-4	0	PPB	
CHLOROBENZENE	108-90-7	0	PPB	
ETHYLBENZENE	100-41-4	0	PPB	
M-XYLENE	108-38-3	0	PPB	
STYRENE	100-42-5	0	PPB	
O-XYLENE	95-47-6	0	PPB	
1,1,2,2-TETRACHLOROETHANE	79-34-5	0	PPB	
1,3,5-TRIMETHYLBENZENE	108-67-8	0	PPB	
1,2,4-TRIMETHYLBENZENE	95-63-6	0	PPB	
1,3-DICHLOROBENZENE	541-73-1	0	PPB	
1,2-DICHLOROBENZENE	95-50-1	0	PPB	
1,4-DICHLOROBENZENE	106-46-7	0	PPB	

Trench 1, # 5 (duplicate)

Information from Data File:

File : C:\HPCHEM\1\DATA\100896_4.D

Operator : MS

Acquired : 10 Jun 153 7:11 pm using AcqMethod CWC

Sample Name: FT 6122-T01.05B

Misc Info : 100 TORR

Vial Number: 1

Search Libraries: C:\DATABASE\WILEY138.L Minimum Quality: 70

C:\DATABASE\NBS54K.L Minimum Quality: 70

Unknown Spectrum: Apex

Integration Params: VOA.E

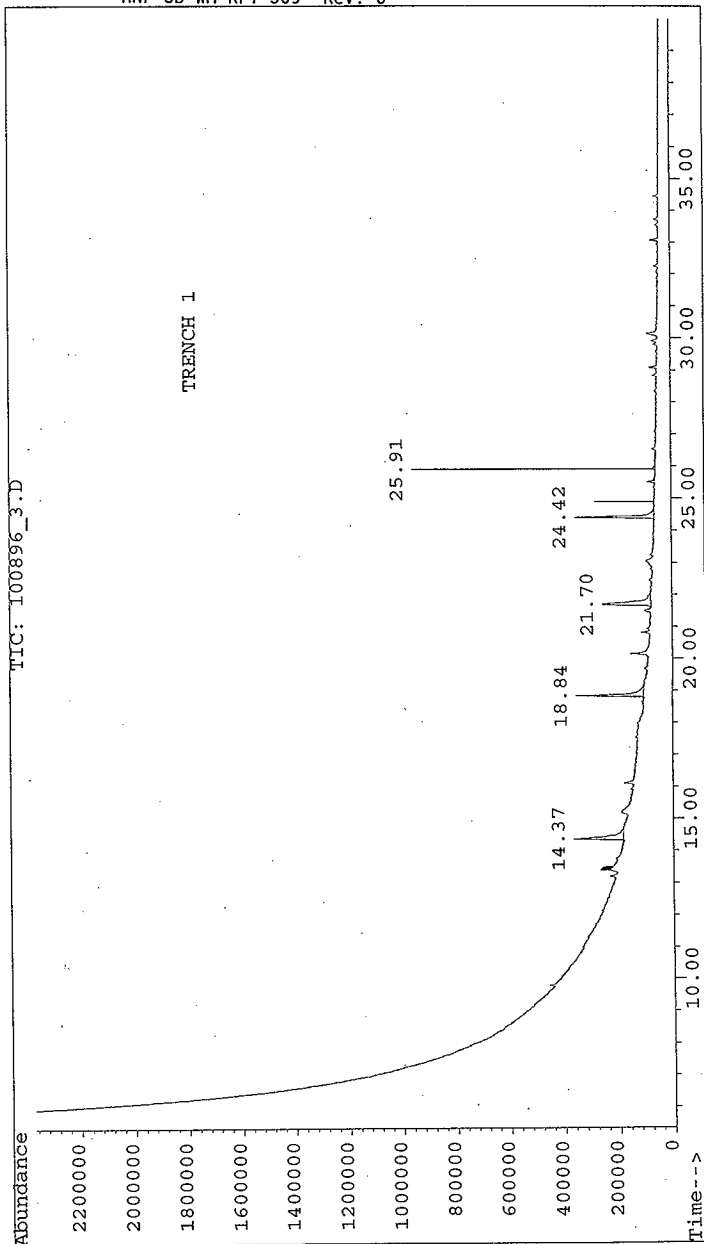
Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
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7	20.13	25.46	C:\DATABASE\WILEY138.L			
			Furan, tetrahydro-	116446	000109-99-9	90

9	21.50	3.41	C:\DATABASE\WILEY138.L			
			Methane, tetrachloro-	123819	000056-23-5	80

14	24.69	2.10	C:\DATABASE\WILEY138.L			
			Disulfide, dimethyl	117489	000624-92-0	70

File : C:\HPCHEM\1\DATA\100896_3.D
Operator : MS
Acquired : 10 Jun 153 5:24 pm using AcqMethod CWC
Instrument : 5972 - In
Sample Name: FT 6122-T01.06A
Misc Info : 100 TORR
Vial Number: 1



ANALYSIS REPORT FOR CWC AIR SAMPLES

File Name: 100896_3.D
 Analyst: MS
 Analysis Date: #VALUE!
 Method: CWC
 Sample Name: FT 6122-T01.06A

COMPOUND NAME	CAS #	Concentration	Units	Comments
ISO-BUTANE	75-28-5	0	PPB	
VINYL CHLORIDE	75-01-4	0	PPB	
ETHANOL	64-17-5	6	PPB	
ACETONE	67-64-1	8	PPB	
2-PROPANOL	67-63-0	3	PPB	
1,1-DICHLOROETHENE	75-35-4	0	PPB	
FREON 113	76-13-1	0	PPB	
DICHLOROMETHANE	75-09-2	0	PPB	
1,1-DICHLOROETHANE	75-34-3	0	PPB	
2-BUTANONE	78-93-3	25	PPB	
N-HEXANE	110-54-3	0	PPB	
1,2-DICHLOROETHENE	156-59-2	0	PPB	
CHLOROFORM	67-66-3	0	PPB	
TETRAHYDROFURAN	109-99-9	0	PPB	
1,1,1-TRICHLOROETHANE	71-55-6	0	PPB	
1,2-DICHLOROETHANE	107-06-2	0	PPB	
BENZENE	71-43-2	0	PPB	
CARBON TETRACHLORIDE	56-23-5	0	PPB	
CYCLOHEXANE	110-82-7	0	PPB	
N-BUTANOL	71-36-3	15	PPB	
TRICHLOROETHENE	79-01-6	0	PPB	
4-METHYL-2-PENTANONE	108-10-1	0	PPB	
TOLUENE	108-88-3	0	PPB	
1,1,2-TRICHLOROETHANE	79-00-5	0	PPB	
TETRACHLOROETHENE	127-18-4	0	PPB	
CHLOROBENZENE	108-90-7	0	PPB	
ETHYLBENZENE	100-41-4	0	PPB	
M-XYLENE	108-38-3	0	PPB	
STYRENE	100-42-5	0	PPB	
O-XYLENE	95-47-6	0	PPB	
1,1,2,2-TETRACHLOROETHANE	79-34-5	0	PPB	
1,3,5-TRIMETHYLBENZENE	108-67-8	0	PPB	
1,2,4-TRIMETHYLBENZENE	95-63-6	0	PPB	
1,3-DICHLOROBENZENE	541-73-1	0	PPB	
1,2-DICHLOROBENZENE	95-50-1	0	PPB	
1,4-DICHLOROBENZENE	106-46-7	0	PPB	

Trench 1, # 6

Information from Data File:

File : C:\HPCHEM\1\DATA\100896_3.D

Operator : MS

Acquired : 10 Jun 153 5:24 pm using AcqMethod CWC

Sample Name: FT 6122-T01.06A

Misc Info : 100 TORR

Vial Number: 1

Search Libraries: C:\DATABASE\WILEY138.L Minimum Quality: 70
C:\DATABASE\NBS54K.L Minimum Quality: 70

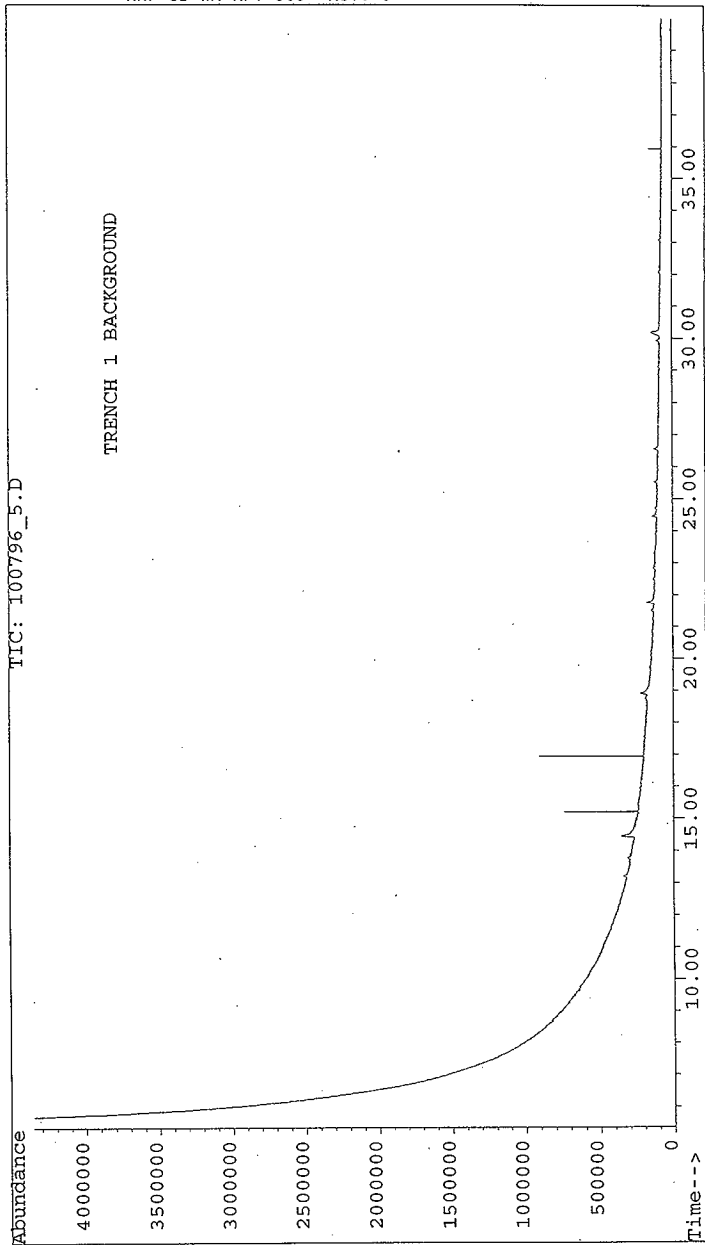
Unknown Spectrum: Apex

Integration Params: VOA.E

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
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5	16.11	1.89	C:\DATABASE\WILEY138.L Methane, dichloro-	116807	000075-09-2	70
10	21.69	15.76	C:\DATABASE\WILEY138.L 1-Butanol	116554	000071-36-3	90
14	25.51	1.81	C:\DATABASE\WILEY138.L Benzene, methyl-	117429	000108-88-3	89
17	29.09	1.12	C:\DATABASE\WILEY138.L Benzene, 1,2-dimethyl-	118571	000095-47-6	93
21	33.07	1.14	C:\DATABASE\WILEY138.L Benzene, 1,3,5-trimethyl-	120037	000108-67-8	83

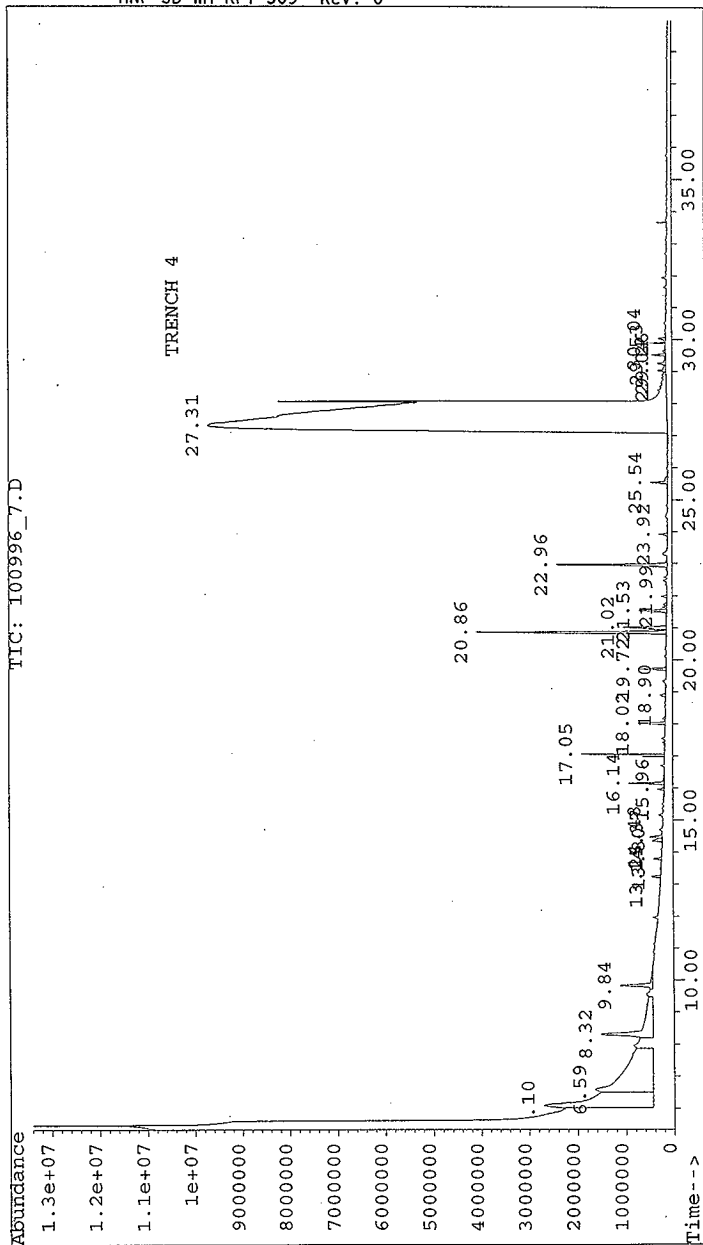
File : C:\HPCHEM\1\DATA\100796_5.D
Operator : MS
Acquired : 9 Jun 153 11:51 pm using AcqMethod CWC
Instrument : 5972 - In
Sample Name: FT 6122-A01.07A
Misc Info : 100 TORR
Vial Number: 1



ANALYSIS REPORT FOR CWC AIR SAMPLES

File Name: 100796_5.D
 Analyst: MS
 Analysis Date: #VALUE!
 Method: CWC
 Sample Name: FT 6122-A01.07A

COMPOUND NAME	CAS #	Concentration	Units	Comments
ISO-BUTANE	75-28-5	0	PPB	
VINYL CHLORIDE	75-01-4	0	PPB	
ETHANOL	64-17-5	0	PPB	
ACETONE	67-64-1	0	PPB	
2-PROPANOL	67-63-0	0	PPB	
1,1-DICHLOROETHENE	75-35-4	0	PPB	
FREON 113	76-13-1	0	PPB	
DICHLOROMETHANE	75-09-2	0	PPB	
1,1-DICHLOROETHANE	75-34-3	0	PPB	
2-BUTANONE	78-93-3	0	PPB	
N-HEXANE	110-54-3	0	PPB	
1,2-DICHLOROETHENE	156-59-2	0	PPB	
CHLOROFORM	67-66-3	0	PPB	
TETRAHYDROFURAN	109-99-9	0	PPB	
1,1,1-TRICHLOROETHANE	71-55-6	0	PPB	
1,2-DICHLOROETHANE	107-06-2	0	PPB	
BENZENE	71-43-2	0	PPB	
CARBON TETRACHLORIDE	56-23-5	0	PPB	
CYCLOHEXANE	110-82-7	0	PPB	
N-BUTANOL	71-36-3	0	PPB	
TRICHLOROETHENE	79-01-6	0	PPB	
4-METHYL-2-PENTANONE	108-10-1	0	PPB	
TOLUENE	108-88-3	0	PPB	
1,1,2-TRICHLOROETHANE	79-00-5	0	PPB	
TETRACHLOROETHENE	127-18-4	0	PPB	
CHLOROBENZENE	108-90-7	0	PPB	
ETHYLBENZENE	100-41-4	0	PPB	
M-XYLENE	108-38-3	0	PPB	
STYRENE	100-42-5	0	PPB	
O-XYLENE	95-47-6	0	PPB	
1,1,2,2-TETRACHLOROETHANE	79-34-5	0	PPB	
1,3,5-TRIMETHYLBENZENE	108-67-8	0	PPB	
1,2,4-TRIMETHYLBENZENE	95-63-6	0	PPB	
1,3-DICHLOROBENZENE	541-73-1	0	PPB	
1,2-DICHLOROBENZENE	95-50-1	0	PPB	
1,4-DICHLOROBENZENE	106-46-7	0	PPB	



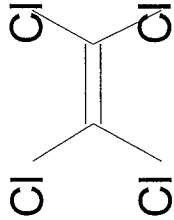
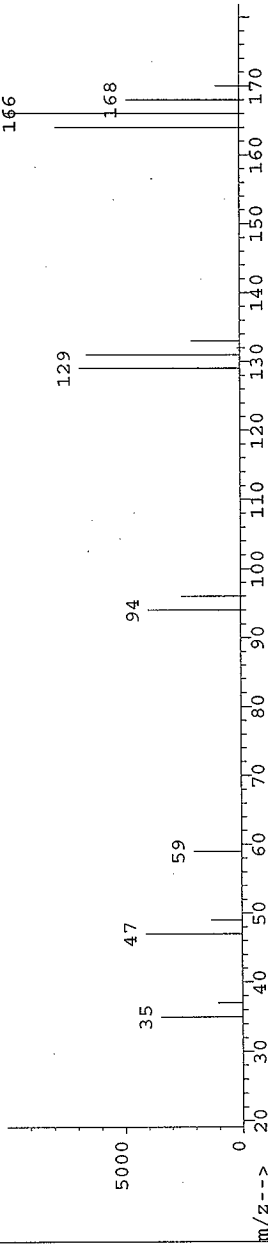
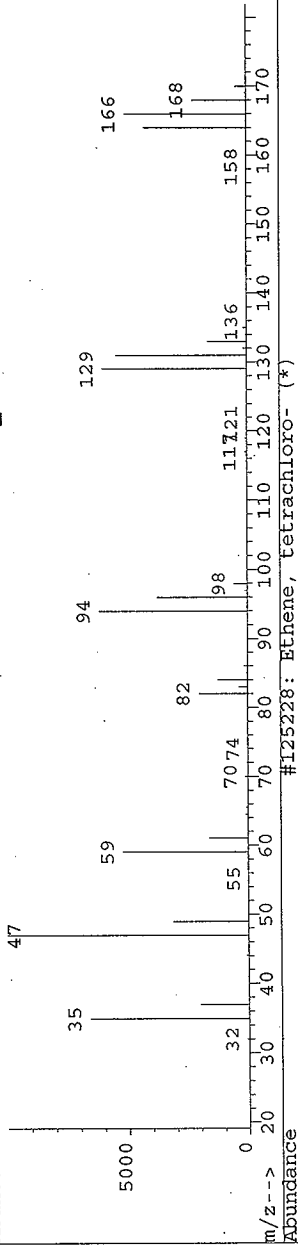
ANALYSIS REPORT FOR CWC AIR SAMPLES

File Name: 100996_7.D
 Analyst: MS
 Analysis Date: #VALUE!
 Method: CWC
 Sample Name: FT 6122-T04.08A

COMPOUND NAME	CAS #	Concentration	Units	Comments
ISO-BUTANE	75-28-5	33	PPB	
VINYL CHLORIDE	75-01-4	0	PPB	
ETHANOL	64-17-5	0	PPB	
ACETONE	67-64-1	10	PPB	
2-PROPANOL	67-63-0	0	PPB	
1,1-DICHLOROETHENE	75-35-4	0	PPB	
FREON 113	76-13-1	0	PPB	
DICHLOROMETHANE	75-09-2	18	PPB	
1,1-DICHLOROETHANE	75-34-3	25	PPB	
2-BUTANONE	78-93-3	0	PPB	
N-HEXANE	110-54-3	2	PPB	
1,2-DICHLOROETHENE	156-59-2	0	PPB	
CHLOROFORM	67-66-3	17	PPB	
TETRAHYDROFURAN	109-99-9	0	PPB	
1,1,1-TRICHLOROETHANE	71-55-6	148	PPB	
1,2-DICHLOROETHANE	107-06-2	21	PPB	
BENZENE	71-43-2	7	PPB	
CARBON TETRACHLORIDE	56-23-5	32	PPB	
CYCLOHEXANE	110-82-7	9	PPB	
N-BUTANOL	71-36-3	0	PPB	
TRICHLOROETHENE	79-01-6	90	PPB	
4-METHYL-2-PENTANONE	108-10-1	0	PPB	
TOLUENE	108-88-3	13	PPB	
1,1,2-TRICHLOROETHANE	79-00-5	0	PPB	
TETRACHLOROETHENE	127-18-4	829	PPB	
CHLOROBENZENE	108-90-7	0	PPB	
ETHYLBENZENE	100-41-4	3	PPB	
M-XYLENE	108-38-3	3	PPB	
STYRENE	100-42-5	0	PPB	
O-XYLENE	95-47-6	4	PPB	
1,1,2,2-TETRACHLOROETHANE	79-34-5	0	PPB	
1,3,5-TRIMETHYLBENZENE	108-67-8	0	PPB	
1,2,4-TRIMETHYLBENZENE	95-63-6	0	PPB	
1,3-DICHLOROBENZENE	541-73-1	0	PPB	
1,2-DICHLOROBENZENE	95-50-1	0	PPB	
1,4-DICHLOROBENZENE	106-46-7	0	PPB	

Library Searched : C:\DATABASE\WILEY138.L
Quality : 99
ID : Ethene, tetrachloro-

Scan 3239 (27.158 min): 100996_7.D (*)



Trench 4, # 8

Information from Data File:

File : C:\HPCHEM\1\DATA\100996_7.D

Operator : MS

Acquired : 11 Jun 153 11:38 pm using AcqMethod CWC

Sample Name: FT 6122-T04.08A

Misc Info : 100 TORR

Search Libraries: C:\DATABASE\WILEY138.L

Minimum Quality: 70

C:\DATABASE\NBS54K.L

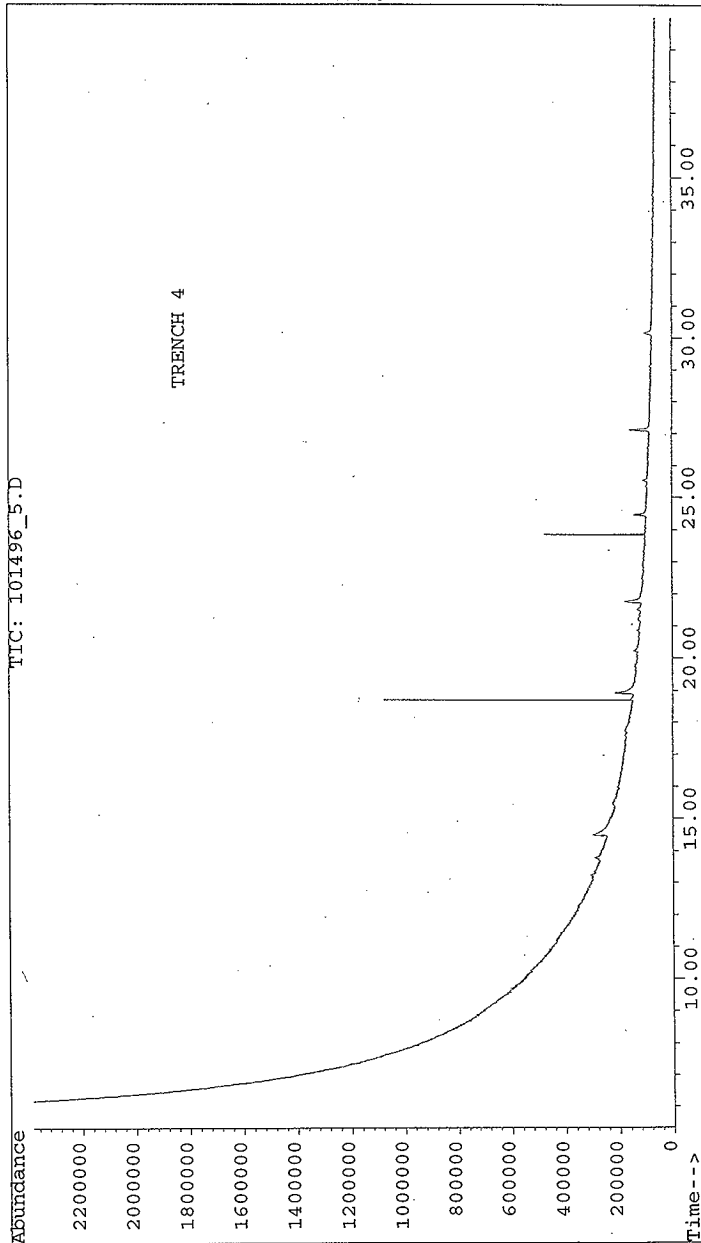
Minimum Quality: 70

Unknown Spectrum: Apex

Integration Params: VOA.E

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
20	16.14	0.38	C:\DATABASE\WILEY138.L Methane, dichloro-	116806	000075-09-2	91
26	18.02	0.21	C:\DATABASE\WILEY138.L Ethane, 1,1-dichloro-	712	000075-34-3	91
31	19.72	0.21	C:\DATABASE\WILEY138.L Chloroform	119702	000067-66-3	86
34	20.86	1.61	C:\DATABASE\WILEY138.L Ethane, 1,1,1-trichloro-	121292	000071-55-6	72
35	21.02	0.45	C:\DATABASE\WILEY138.L Butane, 1-chloro-	117419	000109-69-3	74
37	21.53	0.25	C:\DATABASE\WILEY138.L Methane, tetrachloro-	123819	000056-23-5	86
40	21.99	0.04	C:\DATABASE\NBS54K.L Hexane, 3-methyl-	1442	000589-34-4	35
45	22.96	0.97	C:\DATABASE\WILEY138.L Ethene, trichloro-	6227	000079-01-6	99
54	25.53	0.15	C:\DATABASE\WILEY138.L Benzene, methyl-	117429	000108-88-3	94
68	29.27	0.16	C:\DATABASE\WILEY138.L Benzene, 1,2-dimethyl-	118571	000095-47-6	83

File : C:\HPCHEM\1\DATA\101496_5.D
Operator : MS
Acquired : 14 Oct 96 1:35 pm using AcqMethod CWC
Instrument : 5972 - In
Sample Name: FT 6122-TO4.10A
Misc Info : 100 TORR
Vial Number: 1



ANALYSIS REPORT FOR CWC AIR SAMPLES

File Name: 101496_5.D
 Analyst: MS
 Analysis Date: 10/14/96
 Method: CWC
 Sample Name: FT 6122-TO4.10A

COMPOUND NAME	CAS #	Concentration	Units	Comments
ISO-BUTANE	75-28-5	0	PPB	
VINYL CHLORIDE	75-01-4	0	PPB	
ETHANOL	64-17-5	0	PPB	
ACETONE	67-64-1	0	PPB	
2-PROPANOL	67-63-0	0	PPB	
1,1-DICHLOROETHENE	75-35-4	0	PPB	
FREON 113	76-13-1	0	PPB	
DICHLOROMETHANE	75-09-2	0	PPB	
1,1-DICHLOROETHANE	75-34-3	0	PPB	
2-BUTANONE	78-93-3	0	PPB	
N-HEXANE	110-54-3	0	PPB	
1,2-DICHLOROETHENE	156-59-2	0	PPB	
CHLOROFORM	67-66-3	0	PPB	
TETRAHYDROFURAN	109-99-9	0	PPB	
1,1,1-TRICHLOROETHANE	71-55-6	0	PPB	
1,2-DICHLOROETHANE	107-06-2	0	PPB	
BENZENE	71-43-2	0	PPB	
CARBON TETRACHLORIDE	56-23-5	0	PPB	
CYCLOHEXANE	110-82-7	0	PPB	
N-BUTANOL	71-36-3	0	PPB	
TRICHLOROETHENE	79-01-6	0	PPB	
4-METHYL-2-PENTANONE	108-10-1	0	PPB	
TOLUENE	108-88-3	0	PPB	
1,1,2-TRICHLOROETHANE	79-00-5	0	PPB	
TETRACHLOROETHENE	127-18-4	0	PPB	
CHLOROBENZENE	108-90-7	0	PPB	
ETHYLBENZENE	100-41-4	0	PPB	
M-XYLENE	108-38-3	0	PPB	
STYRENE	100-42-5	0	PPB	
O-XYLENE	95-47-6	0	PPB	
1,1,2,2-TETRACHLOROETHANE	79-34-5	0	PPB	
1,3,5-TRIMETHYLBENZENE	108-67-8	0	PPB	
1,2,4-TRIMETHYLBENZENE	95-63-6	0	PPB	
1,3-DICHLOROBENZENE	541-73-1	0	PPB	
1,2-DICHLOROBENZENE	95-50-1	0	PPB	
1,4-DICHLOROBENZENE	106-46-7	0	PPB	

Trench 4, # 10

Information from Data File:

File : C:\HPCHEM\1\DATA\101496_5.D

Operator : MS

Acquired : 14 Oct 96 1:35 pm using AcqMethod CWC

Sample Name: FT 6122-TO4.10A

Misc Info : 100 TORR

Vial Number: 1

Search Libraries: C:\DATABASE\WILEY138.L
C:\DATABASE\NBS54K.L

Minimum Quality: 70

Minimum Quality: 70

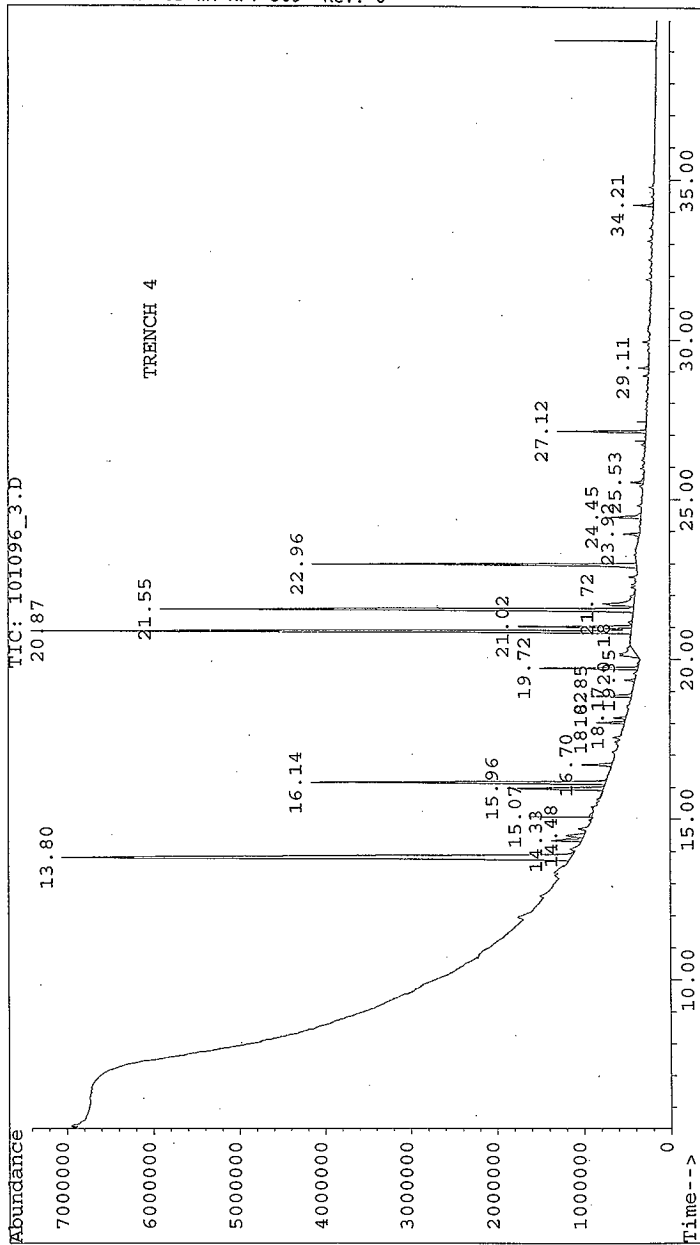
Unknown Spectrum: Apex

Integration Params: VOA.E

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
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(None)

File : C:\HPCHEM\1\DATA\101096_3.D
Operator : MS
Acquired : 10 Oct 96 11:14 am using AcqMethod CWC
Instrument : 5972 - In
Sample Name: FT 6122-T04.11A
Misc Info : 100 TORR
Vial Number: 1



ANALYSIS REPORT FOR CWC AIR SAMPLES

File Name: 101096_3.D
 Analyst: MS
 Analysis Date: 10/10/96
 Method: CWC
 Sample Name: FT 6122-T04.11A

COMPOUND NAME	CAS #	Concentration	Units	Comments
ISO-BUTANE	75-28-5	0	PPB	
VINYL CHLORIDE	75-01-4	0	PPB	
ETHANOL	64-17-5	18	PPB	
ACETONE	67-64-1	15	PPB	
2-PROPANOL	67-63-0	9	PPB	
1,1-DICHLOROETHENE	75-35-4	0	PPB	
FREON 113	76-13-1	32	PPB	
DICHLOROMETHANE	75-09-2	106	PPB	
1,1-DICHLOROETHANE	75-34-3	15	PPB	
2-BUTANONE	78-93-3	37	PPB	
N-HEXANE	110-54-3	3	PPB	
1,2-DICHLOROETHENE	156-59-2	0	PPB	
CHLOROFORM	67-66-3	34	PPB	
TETRAHYDROFURAN	109-99-9	0	PPB	
1,1,1-TRICHLOROETHANE	71-55-6	303	PPB	
1,2-DICHLOROETHANE	107-06-2	17	PPB	
BENZENE	71-43-2	23	PPB	
CARBON TETRACHLORIDE	56-23-5	401	PPB	
CYCLOHEXANE	110-82-7	100	PPB	
N-BUTANOL	71-36-3	5	PPB	
TRICHLOROETHENE	79-01-6	155	PPB	
4-METHYL-2-PENTANONE	108-10-1	0	PPB	
TOLUENE	108-88-3	4	PPB	
1,1,2-TRICHLOROETHANE	79-00-5	0	PPB	
TETRACHLOROETHENE	127-18-4	27	PPB	
CHLOROBENZENE	108-90-7	0	PPB	
ETHYLBENZENE	100-41-4	2	PPB	
M-XYLENE	108-38-3	3	PPB	
STYRENE	100-42-5	0	PPB	
O-XYLENE	95-47-6	2	PPB	
1,1,2,2-TETRACHLOROETHANE	79-34-5	0	PPB	
1,3,5-TRIMETHYLBENZENE	108-67-8	0	PPB	
1,2,4-TRIMETHYLBENZENE	95-63-6	1	PPB	
1,3-DICHLOROBENZENE	541-73-1	0	PPB	
1,2-DICHLOROBENZENE	95-50-1	0	PPB	
1,4-DICHLOROBENZENE	106-46-7	0	PPB	

Trench 4, # 11

Information from Data File:

File : C:\HPCHEM\1\DATA\101096_3.D
Operator : MS
Acquired : 10 Oct 96 11:14 am using AcqMethod CWC
Sample Name: FT 6122-T04.11A
Misc Info : 100 TORR
Vial Number: 1

Search Libraries: C:\DATABASE\WILEY138.L Minimum Quality: 70
C:\DATABASE\NBS54K.L Minimum Quality: 70

Unknown Spectrum: Apex
Integration Params: VOA.E

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
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5	13.80	22.07	C:\DATABASE\WILEY138.L			
			Methane, trichlorofluoro-	121756	000075-69-4	90

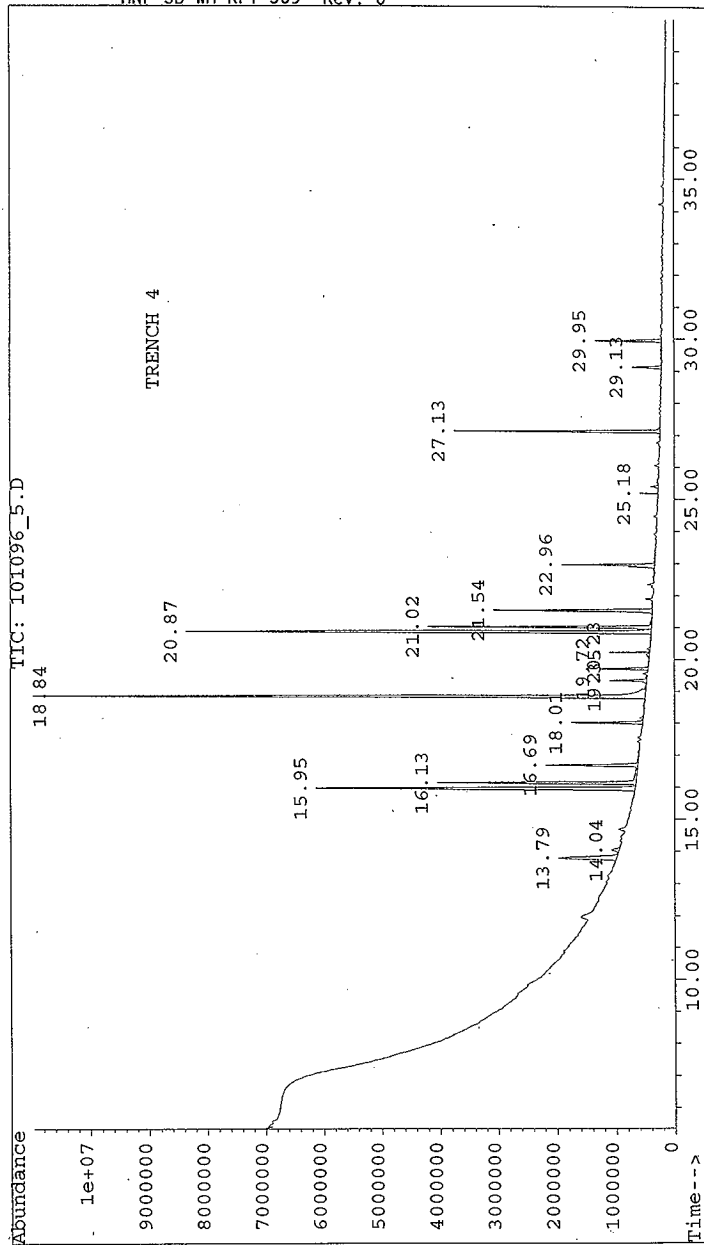
26	19.72	1.94	C:\DATABASE\WILEY138.L			
			Chloroform	119702	000067-66-3	80

31	20.87	15.74	C:\DATABASE\WILEY138.L			
			Ethane, 1,1,1-trichloro-	121292	000071-55-6	72

34	21.55	13.01	C:\DATABASE\WILEY138.L			
			Methane, tetrachloro-	123819	000056-23-5	90

42	22.96	7.55	C:\DATABASE\WILEY138.L			
			Ethene, trichloro-	6227	000079-01-6	98

File : C:\HPCHEM\1\DATA\101096_5.D
Operator : MS
Acquired : 10 Oct 96 4:09 pm using AcqMethod CWC
Instrument : 5972 - In
Sample Name: FT 6122-T04.12A
Misc Info : 100 TORR
Vial Number: 1



ANALYSIS REPORT FOR CWC AIR SAMPLES

File Name: 101096_5.D
 Analyst: MS
 Analysis Date: 10/10/96
 Method: CWC
 Sample Name: FT 6122-T04.12A

COMPOUND NAME	CAS #	Concentration	Units	Comments
ISO-BUTANE	75-28-5	0	PPB	
VINYL CHLORIDE	75-01-4	0	PPB	
ETHANOL	64-17-5	0	PPB	
ACETONE	67-64-1	5	PPB	
2-PROPANOL	67-63-0	0	PPB	
1,1-DICHLOROETHENE	75-35-4	0	PPB	
FREON 113	76-13-1	186	PPB	
DICHLOROMETHANE	75-09-2	115	PPB	
1,1-DICHLOROETHANE	75-34-3	55	PPB	
2-BUTANONE	78-93-3	1204	PPB	
N-HEXANE	110-54-3	68	PPB	
1,2-DICHLOROETHENE	156-59-2	0	PPB	
CHLOROFORM	67-66-3	27	PPB	
TETRAHYDROFURAN	109-99-9	0	PPB	
1,1,1-TRICHLOROETHANE	71-55-6	366	PPB	
1,2-DICHLOROETHANE	107-06-2	14	PPB	
BENZENE	71-43-2	19	PPB	
CARBON TETRACHLORIDE	56-23-5	182	PPB	
CYCLOHEXANE	110-82-7	41	PPB	
N-BUTANOL	71-36-3	0	PPB	
TRICHLOROETHENE	79-01-6	61	PPB	
4-METHYL-2-PENTANONE	108-10-1	0	PPB	
TOLUENE	108-88-3	0	PPB	
1,1,2-TRICHLOROETHANE	79-00-5	0	PPB	
TETRACHLOROETHENE	127-18-4	103	PPB	
CHLOROBENZENE	108-90-7	0	PPB	
ETHYLBENZENE	100-41-4	12	PPB	
M-XYLENE	108-38-3	12	PPB	
STYRENE	100-42-5	0	PPB	
O-XYLENE	95-47-6	32	PPB	
1,1,2,2-TETRACHLOROETHANE	79-34-5	0	PPB	
1,3,5-TRIMETHYLBENZENE	108-67-8	0	PPB	
1,2,4-TRIMETHYLBENZENE	95-63-6	0	PPB	
1,3-DICHLOROBENZENE	541-73-1	0	PPB	
1,2-DICHLOROBENZENE	95-50-1	0	PPB	
1,4-DICHLOROBENZENE	106-46-7	0	PPB	

Trench 4, # 12

Information from Data File:

File : C:\HPCHEM\1\DATA\101096_5.D

Operator : MS

Acquired : 10 Oct 96 4:09 pm using AcqMethod CWC

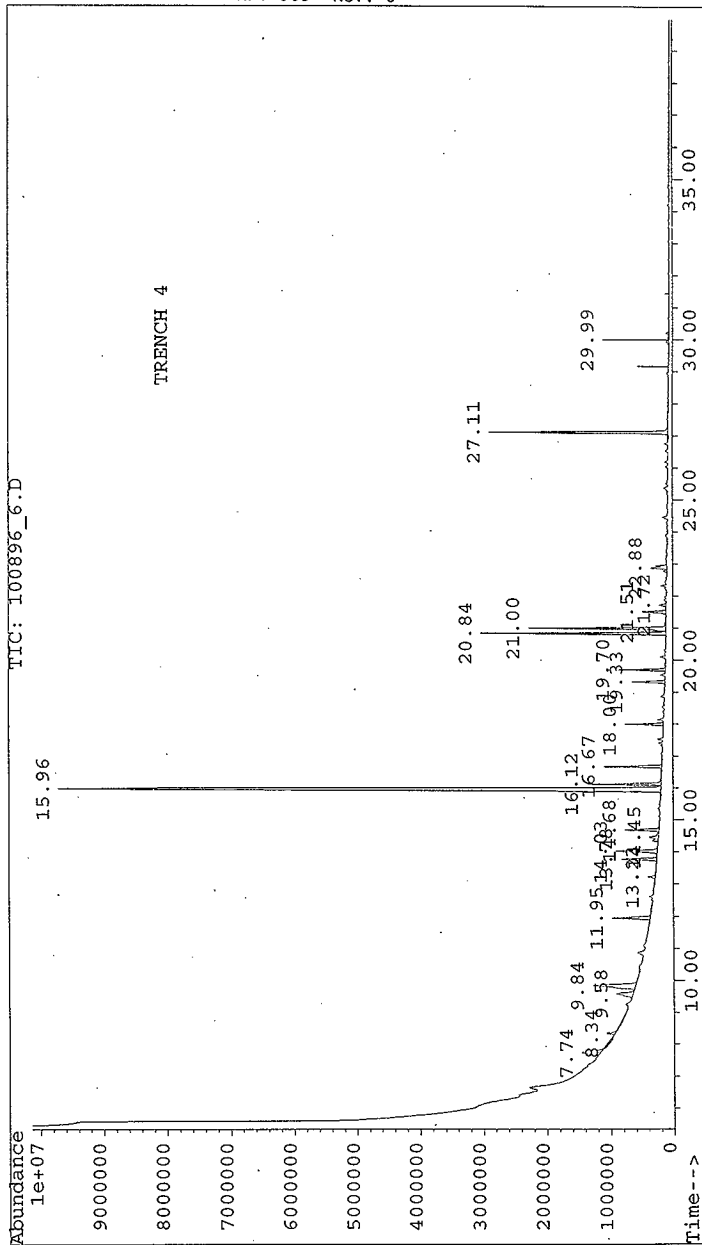
Sample Name: FT 6122-T04.12A

Misc Info : 100 TORR

Search Libraries: C:\DATABASE\WILEY138.L Minimum Quality: 70
 C:\DATABASE\NBS54K.L Minimum Quality: 70

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
7	15.95	12.65	C:\DATABASE\WILEY138.L Ethane, 1,1,2-trichloro-1,2,2-trifluo	28085	000076-13-1	87
8	16.13	6.92	C:\DATABASE\WILEY138.L Methane, dichloro-	116806	000075-09-2	90
12	18.01	2.08	C:\DATABASE\WILEY138.L Ethane, 1,1-dichloro-	117653	000075-34-3	74
15	18.84	22.83	C:\DATABASE\WILEY138.L 2-Butanone	116395	000078-93-3	72
18	19.72	1.35	C:\DATABASE\WILEY138.L Acetic acid, trichloro-	125012	000076-03-9	78
22	20.87	16.38	C:\DATABASE\WILEY138.L Ethane, 1,1,1-trichloro-	121292	000071-55-6	72
24	21.54	5.02	C:\DATABASE\WILEY138.L Methane, tetrachloro-	123821	000056-23-5	86
32	22.96	3.19	C:\DATABASE\WILEY138.L Ethene, trichloro-	6227	000079-01-6	98
45	27.13	6.14	C:\DATABASE\WILEY138.L Ethene, tetrachloro-	125230	000127-18-4	98
50	29.13	0.91	C:\DATABASE\WILEY138.L Benzene, 1,4-dimethyl-	118586	000106-42-3	90
54	29.95	1.82	C:\DATABASE\WILEY138.L Benzene, 1,4-dimethyl-	118586	000106-42-3	92

File : C:\HPCHEM\1\DATA\100896_6.D
Operator : MS
Acquired : 10 Jun 153 9:41 pm using AcqMethod CWC
Instrument : 5972 - In
Sample Name: FT 6122-T04.13A
Misc Info : 100 TORR
Vial Number: 1



ANALYSIS REPORT FOR CWC AIR SAMPLES

File Name: 100896_6.D
 Analyst: MS
 Analysis Date: #VALUE!
 Method: CWC
 Sample Name: FT 6122-T04.13A

COMPOUND NAME	CAS #	Concentration	Units	Comments
ISO-BUTANE	75-28-5	3	PPB	
VINYL CHLORIDE	75-01-4	5	PPB	
ETHANOL	64-17-5	0	PPB	
ACETONE	67-64-1	6	PPB	
2-PROPANOL	67-63-0	0	PPB	
1,1-DICHLOROETHENE	75-35-4	0	PPB	
FREON 113	76-13-1	241	PPB	
DICHLOROMETHANE	75-09-2	25	PPB	
1,1-DICHLOROETHANE	75-34-3	27	PPB	
2-BUTANONE	78-93-3	0	PPB	
N-HEXANE	110-54-3	12	PPB	
1,2-DICHLOROETHENE	156-59-2	0	PPB	
CHLOROFORM	67-66-3	21	PPB	
TETRAHYDROFURAN	109-99-9	0	PPB	
1,1,1-TRICHLOROETHANE	71-55-6	101	PPB	
1,2-DICHLOROETHANE	107-06-2	13	PPB	
BENZENE	71-43-2	5	PPB	
CARBON TETRACHLORIDE	56-23-5	19	PPB	
CYCLOHEXANE	110-82-7	6	PPB	
N-BUTANOL	71-36-3	5	PPB	
TRICHLOROETHENE	79-01-6	6	PPB	
4-METHYL-2-PENTANONE	108-10-1	0	PPB	
TOLUENE	108-88-3	0	PPB	
1,1,2-TRICHLOROETHANE	79-00-5	0	PPB	
TETRACHLOROETHENE	127-18-4	59	PPB	
CHLOROBENZENE	108-90-7	0	PPB	
ETHYLBENZENE	100-41-4	0	PPB	
M-XYLENE	108-38-3	0	PPB	
STYRENE	100-42-5	0	PPB	
O-XYLENE	95-47-6	0	PPB	
1,1,2,2-TETRACHLOROETHANE	79-34-5	0	PPB	
1,3,5-TRIMETHYLBENZENE	108-67-8	0	PPB	
1,2,4-TRIMETHYLBENZENE	95-63-6	0	PPB	
1,3-DICHLOROBENZENE	541-73-1	0	PPB	
1,2-DICHLOROBENZENE	95-50-1	0	PPB	
1,4-DICHLOROBENZENE	106-46-7	0	PPB	

Trench 4, # 13

Information from Data File:

File : C:\HPCHEM\1\DATA\100896_6.D
 Operator : MS
 Acquired : 10 Jun 153 9:41 pm using AcqMethod CWC
 Sample Name: FT 6122-T04.13A
 Misc Info : 100 TORR
 Vial Number: 1

Search Libraries: C:\DATABASE\WILEY138.L Minimum Quality: 70
 C:\DATABASE\NBS54K.L Minimum Quality: 70

Unknown Spectrum: Apex
 Integration Params: VOA.E

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
8	11.95	1.97	C:\DATABASE\WILEY138.L Ethane, chloro-	116200	000075-00-3	95
12	13.78	1.69	C:\DATABASE\WILEY138.L Methane, trichlorofluoro-	121756	000075-69-4	78
19	15.97	43.26	C:\DATABASE\WILEY138.L Ethane, 1,1,2-trichloro-1,2,2-trifluo	28085	000076-13-1	91
20	16.12	3.02	C:\DATABASE\WILEY138.L Methane, dichloro-	116806	000075-09-2	91
26	18.00	1.55	C:\DATABASE\WILEY138.L Ethane, 1,1-dichloro-	117653	000075-34-3	91
31	19.33	1.34	C:\DATABASE\WILEY138.L Carbonochloridic acid, butyl ester	7693	000592-34-7	78
33	19.70	1.74	C:\DATABASE\WILEY138.L Chloroform	119702	000067-66-3	90
37	20.84	7.74	C:\DATABASE\WILEY138.L Ethane, 1,1,1-trichloro-	121292	000071-55-6	72
38	21.00	5.62	C:\DATABASE\WILEY138.L Butane, 1-chloro-	117417	000109-69-3	72

Trench 4, # 13 (continued)

40	21.52	1.21	C:\DATABASE\WILEY138.L	
			Methane, tetrachloro-	123819 000056-23-5 86
47	22.79	0.17	C:\DATABASE\WILEY138.L	
			2-DEUTERO-2-METHYLPROPANE	116084 013183-68-1 72
48	22.88	0.63	C:\DATABASE\WILEY138.L	
			Propane, 1,2-dichloro-	118943 000078-87-5 86
49	22.94	0.44	C:\DATABASE\WILEY138.L	
			Ethene, trichloro-	6227 000079-01-6 99
59	27.11	7.97	C:\DATABASE\WILEY138.L	
			Ethene, tetrachloro-	125230 000127-18-4 97

File : C:\HPCHEM\1\DATA\101096_4.D

Operator : MS

Acquired : 10 Oct 96 2:44 pm using AcqMethod CWC

Instrument : 5972 - In

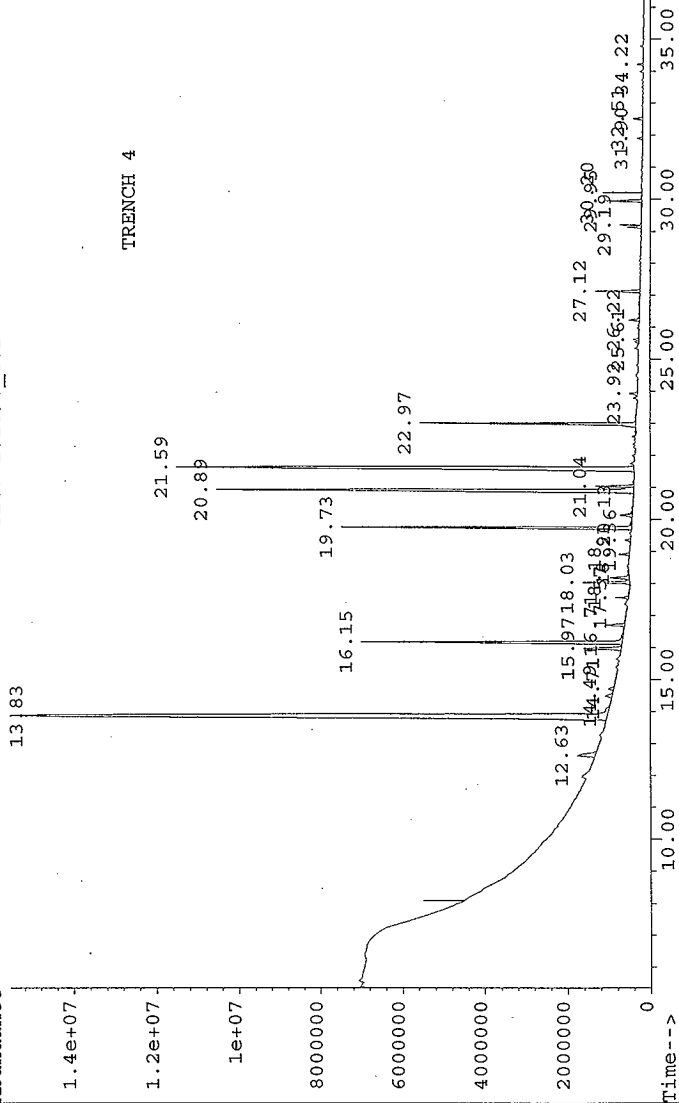
Sample Name: FT 6122-T04.14A

Misc Info : 100 TORR

Vial Number: 1

Abundance

TIC: 101096_4.D



ANALYSIS REPORT FOR CWC AIR SAMPLES

File Name: 101096_4.D
 Analyst: MS
 Analysis Date: 10/10/96
 Method: CWC
 Sample Name: FT 6122-T04.14A

COMPOUND NAME	CAS #	Concentration	Units	Comments
ISO-BUTANE	75-28-5	0	PPB	
VINYL CHLORIDE	75-01-4	0	PPB	
ETHANOL	64-17-5	0	PPB	
ACETONE	67-64-1	0	PPB	
2-PROPANOL	67-63-0	0	PPB	
1,1-DICHLOROETHENE	75-35-4	0	PPB	
FREON 113	76-13-1	24	PPB	
DICHLOROMETHANE	75-09-2	220	PPB	
1,1-DICHLOROETHANE	75-34-3	52	PPB	
2-BUTANONE	78-93-3	0	PPB	
N-HEXANE	110-54-3	6	PPB	
1,2-DICHLOROETHENE	156-59-2	0	PPB	
CHLOROFORM	67-66-3	244	PPB	
TETRAHYDROFURAN	109-99-9	0	PPB	
1,1,1-TRICHLOROETHANE	71-55-6	527	PPB	
1,2-DICHLOROETHANE	107-06-2	17	PPB	
BENZENE	71-43-2	5	PPB	
CARBON TETRACHLORIDE	56-23-5	1183	PPB	
CYCLOHEXANE	110-82-7	292	PPB	
N-BUTANOL	71-36-3	6	PPB	
TRICHLOROETHENE	79-01-6	224	PPB	
4-METHYL-2-PENTANONE	108-10-1	0	PPB	
TOLUENE	108-88-3	3	PPB	
1,1,2-TRICHLOROETHANE	79-00-5	6	PPB	
TETRACHLOROETHENE	127-18-4	28	PPB	
CHLOROBENZENE	108-90-7	0	PPB	
ETHYLBENZENE	100-41-4	8	PPB	
M-XYLENE	108-38-3	7	PPB	
STYRENE	100-42-5	0	PPB	
O-XYLENE	95-47-6	24	PPB	
1,1,2,2-TETRACHLOROETHANE	79-34-5	0	PPB	
1,3,5-TRIMETHYLBENZENE	108-67-8	0	PPB	
1,2,4-TRIMETHYLBENZENE	95-63-6	0	PPB	
1,3-DICHLOROBENZENE	541-73-1	0	PPB	
1,2-DICHLOROBENZENE	95-50-1	0	PPB	
1,4-DICHLOROBENZENE	106-46-7	0	PPB	

Trench 4, # 14

Information from Data File:

File : C:\HPCHEM\1\DATA\101096_4.D

Operator : MS

Acquired : 10 Oct 96 2:44 pm using AcqMethod CWC

Sample Name: FT 6122-T04.14A

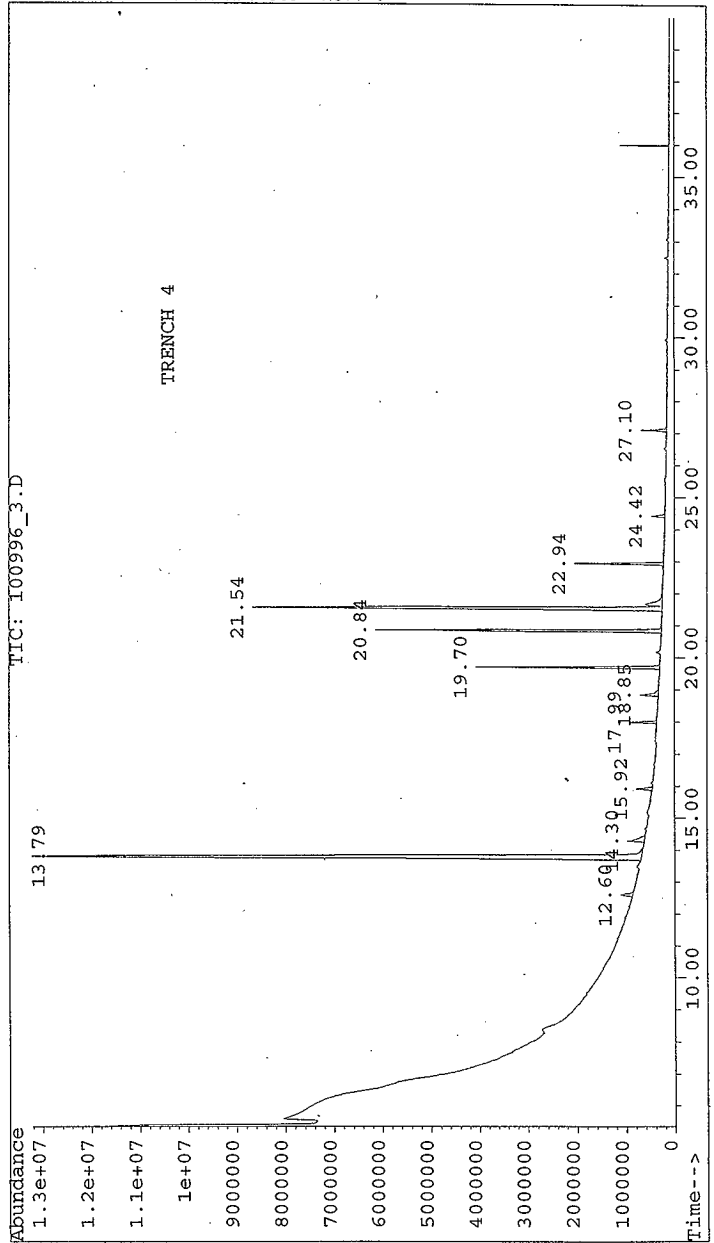
Misc Info : 100 TORR

Search Libraries: C:\DATABASE\WILEY138.L Minimum Quality: 70

C:\DATABASE\NBS54K.L Minimum Quality: 70

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
4	13.83	34.02	C:\DATABASE\WILEY138.L Methane, trichlorofluoro-	121756	000075-69-4	90
11	16.15	6.70	C:\DATABASE\WILEY138.L Methane, dichloro-	116806	000075-09-2	91
16	18.03	1.18	C:\DATABASE\WILEY138.L Ethane, 1,1-dichloro-	712	000075-34-3	81
23	19.73	7.08	C:\DATABASE\WILEY138.L Chloroform	119702	000067-66-3	83
26	20.89	13.62	C:\DATABASE\WILEY138.L Ethane, 1,1,1-trichloro-	121292	000071-55-6	72
29	21.60	18.17	C:\DATABASE\WILEY138.L Methane, tetrachloro-	13199	000056-23-5	90
38	22.98	5.22	C:\DATABASE\WILEY138.L Ethene, trichloro-	6227	000079-01-6	98
46	25.34	0.18	C:\DATABASE\NBS54K.L Cyclobutanol	255	002919-23-5	78
55	27.12	0.99	C:\DATABASE\WILEY138.L Ethene, tetrachloro-	125230	000127-18-4	97
62	29.13	0.32	C:\DATABASE\WILEY138.L Benzene, 1,2-dimethyl-	118564	000095-47-6	86
65	29.95	0.79	C:\DATABASE\WILEY138.L Benzene, 1,3-dimethyl-	118578	000108-38-3	92

File : C:\HPCHEM\1\DATA\100996_3.D
Operator : MS
Acquired : 11 Jun 153 6:01 pm using AcqMethod CWC
Instrument : 5972 - In
Sample Name: FT 6122-TO4.15A
Misc Info : 100 TORR
Vial Number: 1



ANALYSIS REPORT FOR CWC AIR SAMPLES

File Name: 100996_3.D
 Analyst: MS
 Analysis Date: #VALUE!
 Method: CWC
 Sample Name: FT 6122-TO4.15A

COMPOUND NAME	CAS #	Concentration	Units	Comments
ISO-BUTANE	75-28-5	0	PPB	
VINYL CHLORIDE	75-01-4	0	PPB	
ETHANOL	64-17-5	7	PPB	
ACETONE	67-64-1	17	PPB	
2-PROPANOL	67-63-0	6	PPB	
1,1-DICHLOROETHENE	75-35-4	0	PPB	
FREON 113	76-13-1	7	PPB	
DICHLOROMETHANE	75-09-2	0	PPB	
1,1-DICHLOROETHANE	75-34-3	24	PPB	
2-BUTANONE	78-93-3	39	PPB	
N-HEXANE	110-54-3	0	PPB	
1,2-DICHLOROETHENE	156-59-2	0	PPB	
CHLOROFORM	67-66-3	116	PPB	
TETRAHYDROFURAN	109-99-9	0	PPB	
1,1,1-TRICHLOROETHANE	71-55-6	234	PPB	
1,2-DICHLOROETHANE	107-06-2	29	PPB	
BENZENE	71-43-2	0	PPB	
CARBON TETRACHLORIDE	56-23-5	679	PPB	
CYCLOHEXANE	110-82-7	187	PPB	
N-BUTANOL	71-36-3	28	PPB	
TRICHLOROETHENE	79-01-6	70	PPB	
4-METHYL-2-PENTANONE	108-10-1	0	PPB	
TOLUENE	108-88-3	0	PPB	
1,1,2-TRICHLOROETHANE	79-00-5	0	PPB	
TETRACHLOROETHENE	127-18-4	12	PPB	
CHLOROBENZENE	108-90-7	0	PPB	
ETHYLBENZENE	100-41-4	0	PPB	
M-XYLENE	108-38-3	0	PPB	
STYRENE	100-42-5	0	PPB	
O-XYLENE	95-47-6	0	PPB	
1,1,2,2-TETRACHLOROETHANE	79-34-5	0	PPB	
1,3,5-TRIMETHYLBENZENE	108-67-8	0	PPB	
1,2,4-TRIMETHYLBENZENE	95-63-6	0	PPB	
1,3-DICHLOROBENZENE	541-73-1	0	PPB	
1,2-DICHLOROBENZENE	95-50-1	0	PPB	
1,4-DICHLOROBENZENE	106-46-7	0	PPB	

Trench 4, # 15

Information from Data File:

File : C:\HPCHEM\1\DATA\100996_3.D

Operator : MS

Acquired : 11 Jun 153 6:01 pm using AcqMethod CWC

Sample Name: FT 6122-TO4:15A

Misc Info : 100 TORR

Vial Number: 1

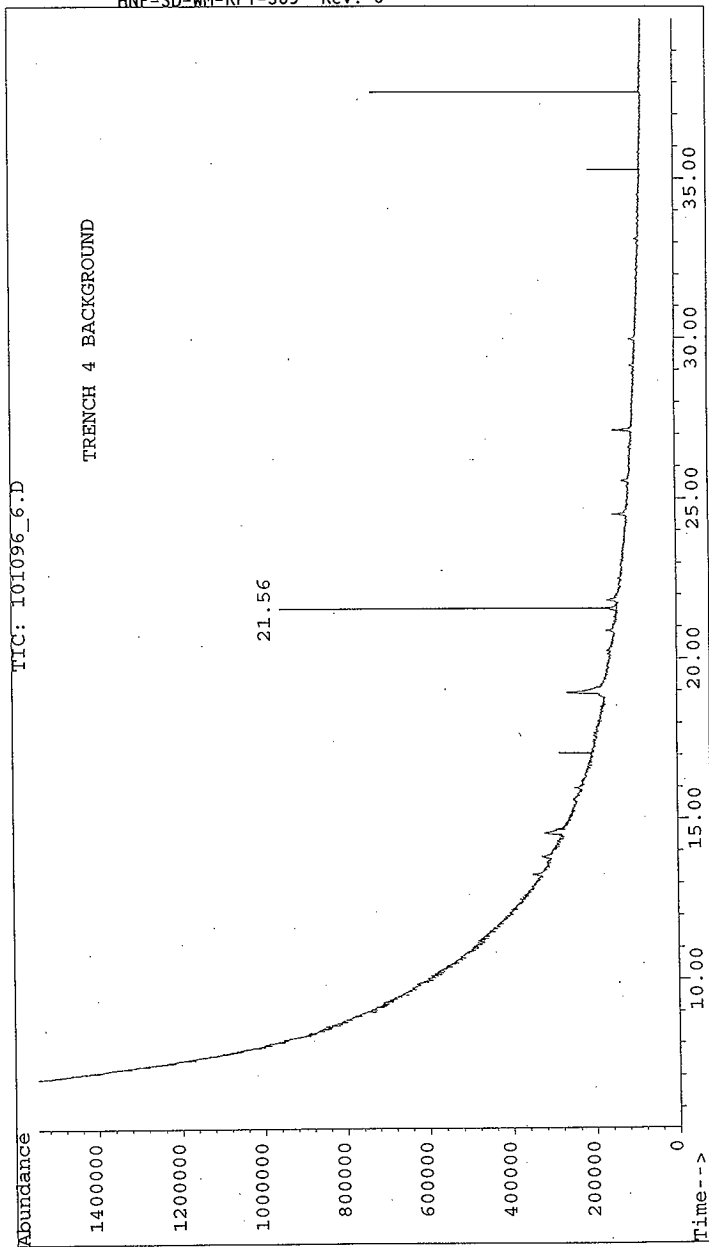
Search Libraries: C:\DATABASE\WILEY138.L Minimum Quality: 70
C:\DATABASE\NBS54K.L Minimum Quality: 70

Unknown Spectrum: Apex

Integration Params: VOA.E

PK#	RT	Area%	Library/ID	Ref#	CAS#	Qual
3	13.79	46.53	C:\DATABASE\WILEY138.L Methane, trichlorofluoro-	121756	000075-69-4	90
14	17.99	1.14	C:\DATABASE\WILEY138.L Ethane, 1,1-dichloro-	117653	000075-34-3	74
16	19.70	6.39	C:\DATABASE\WILEY138.L Chloroform	119702	000067-66-3	90
18	20.84	11.70	C:\DATABASE\WILEY138.L Ethane, 1,1,1-trichloro-	121292	000071-55-6	72
19	21.54	21.53	C:\DATABASE\WILEY138.L Methane, tetrachloro-	123819	000056-23-5	90
22	22.94	3.10	C:\DATABASE\WILEY138.L Ethene, trichloro-	6227	000079-01-6	99

File : C:\HPCHEM\1\DATA\101096_6.D
Operator : MS
Acquired : 10 Oct 96 5:15 pm using AcqMethod CWC
Instrument : 5972 -- In
Sample Name: FT 6122-A04.16A
Misc Info : 100 TORR
Vial Number: 1



ANALYSIS REPORT FOR CWC AIR SAMPLES

File Name: 101096_6.D
 Analyst: MS
 Analysis Date: 10/10/96
 Method: CWC
 Sample Name: FT 6122-A04.16A

COMPOUND NAME	CAS #	Concentration	Units	Comments
ISO-BUTANE	75-28-5	0	PPB	
VINYL CHLORIDE	75-01-4	0	PPB	
ETHANOL	64-17-5	0	PPB	
ACETONE	67-64-1	0	PPB	
2-PROPANOL	67-63-0	0	PPB	
1,1-DICHLOROETHENE	75-35-4	0	PPB	
FREON 113	76-13-1	0	PPB	
DICHLOROMETHANE	75-09-2	0	PPB	
1,1-DICHLOROETHANE	75-34-3	0	PPB	
2-BUTANONE	78-93-3	0	PPB	
N-HEXANE	110-54-3	0	PPB	
1,2-DICHLOROETHENE	156-59-2	0	PPB	
CHLOROFORM	67-66-3	0	PPB	
TETRAHYDROFURAN	109-99-9	0	PPB	
1,1,1-TRICHLOROETHANE	71-55-6	0	PPB	
1,2-DICHLOROETHANE	107-06-2	0	PPB	
BENZENE	71-43-2	0	PPB	
CARBON TETRACHLORIDE	56-23-5	0	PPB	
CYCLOHEXANE	110-82-7	0	PPB	
N-BUTANOL	71-36-3	0	PPB	
TRICHLOROETHENE	79-01-6	0	PPB	
4-METHYL-2-PENTANONE	108-10-1	0	PPB	
TOLUENE	108-88-3	0	PPB	
1,1,2-TRICHLOROETHANE	79-00-6	0	PPB	
TETRACHLOROETHENE	127-18-4	0	PPB	
CHLOROBENZENE	108-90-7	0	PPB	
ETHYLBENZENE	100-41-4	0	PPB	
M-XYLENE	108-38-3	0	PPB	
STYRENE	100-42-5	0	PPB	
O-XYLENE	95-47-6	0	PPB	
1,1,2,2-TETRACHLOROETHANE	79-34-5	0	PPB	
1,3,5-TRIMETHYLBENZENE	108-67-8	0	PPB	
1,2,4-TRIMETHYLBENZENE	95-63-6	0	PPB	
1,3-DICHLOROBENZENE	541-73-1	0	PPB	
1,2-DICHLOROBENZENE	95-50-1	0	PPB	
1,4-DICHLOROBENZENE	106-46-7	0	PPB	

Trench 4, Background

Information from Data File:

File : C:\HPCHEM\1\DATA\101096_6.D

Operator : MS

Acquired : 10 Oct 96 5:15 pm using AcqMethod CWC

Sample Name: FT 6122-A04.16A

Misc Info : 100 TORR

Vial Number: 1

Search Libraries: C:\DATABASE\WILEY138.L Minimum Quality: 70
C:\DATABASE\NBS54K.L Minimum Quality: 70

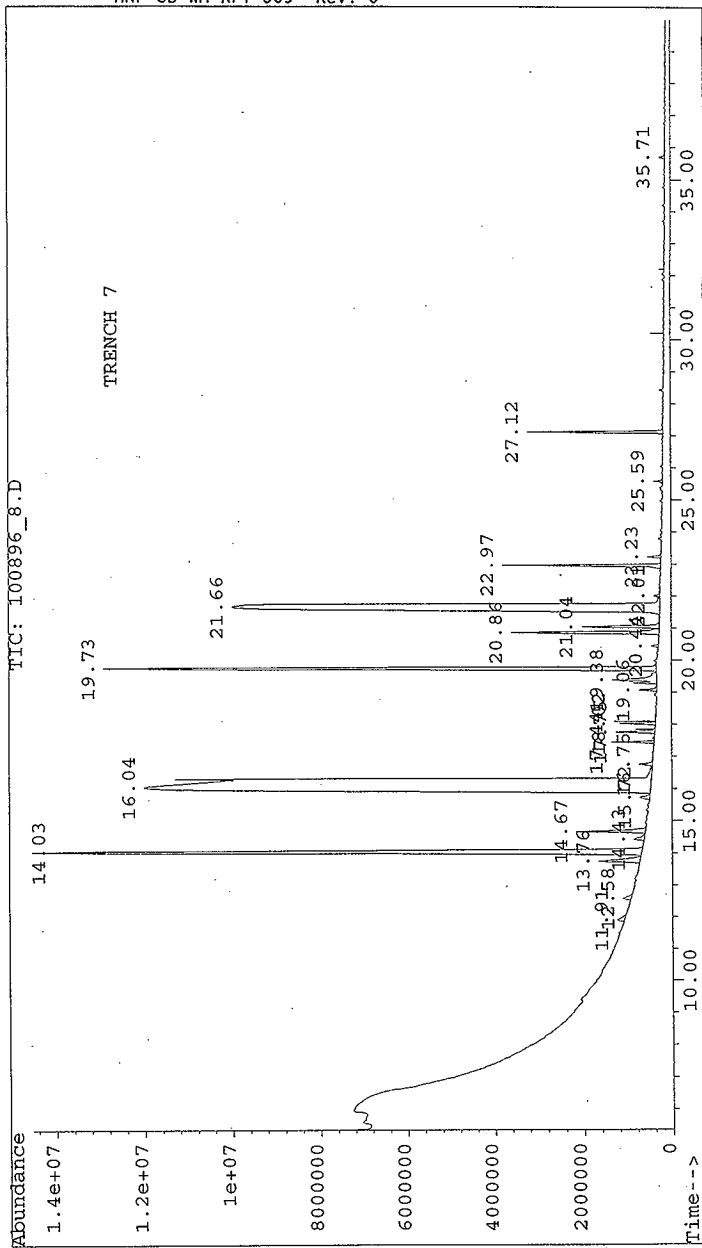
Unknown Spectrum: Apex

Integration Params: VOA.E

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
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(None)

File : C:\HPCHEM\1\DATA\100896_8.D
Operator : MS
Acquired : 10 Jun 153 11:58 pm using AcqMethod CWC
Instrument : 5972 - In
Sample Name: FT 6122-T07.17A
Misc Info : 100 TORR
Vial Number: 1



ANALYSIS REPORT FOR CWC AIR SAMPLES

File Name: 100896_8.D
 Analyst: MS
 Analysis Date: #VALUE!
 Method: CWC
 Sample Name: FT 6122-T07.17A

COMPOUND NAME	CAS #	Concentration	Units	Comments
ISO-BUTANE	75-28-5	0	PPB	
VINYL CHLORIDE	75-01-4	0	PPB	
ETHANOL	64-17-5	0	PPB	
ACETONE	67-64-1	5	PPB	
2-PROPANOL	67-63-0	2	PPB	
1,1-DICHLOROETHENE	75-35-4	3	PPB	
FREON 113	76-13-1	1064	PPB	
DICHLOROMETHANE	75-09-2	3	PPB	
1,1-DICHLOROETHANE	75-34-3	34	PPB	
2-BUTANONE	78-93-3	0	PPB	
N-HEXANE	110-54-3	9	PPB	
1,2-DICHLOROETHENE	156-59-2	12	PPB	
CHLOROFORM	67-66-3	611	PPB	
TETRAHYDROFURAN	109-99-9	0	PPB	
1,1,1-TRICHLOROETHANE	71-55-6	155	PPB	
1,2-DICHLOROETHANE	107-06-2	11	PPB	
BENZENE	71-43-2	0	PPB	
CARBON TETRACHLORIDE	56-23-5	2062	PPB	
CYCLOHEXANE	110-82-7	616	PPB	
N-BUTANOL	71-36-3	0	PPB	
TRICHLOROETHENE	79-01-6	144	PPB	
4-METHYL-2-PENTANONE	108-10-1	0	PPB	
TOLUENE	108-88-3	0	PPB	
1,1,2-TRICHLOROETHANE	79-00-5	9	PPB	
TETRACHLOROETHENE	127-18-4	67	PPB	
CHLOROBENZENE	108-90-7	0	PPB	
ETHYLBENZENE	100-41-4	0	PPB	
M-XYLENE	108-38-3	0	PPB	
STYRENE	100-42-5	0	PPB	
O-XYLENE	95-47-6	0	PPB	
1,1,2,2-TETRACHLOROETHANE	79-34-5	0	PPB	
1,3,5-TRIMETHYLBENZENE	108-67-8	0	PPB	
1,2,4-TRIMETHYLBENZENE	95-63-6	0	PPB	
1,3-DICHLOROBENZENE	541-73-1	0	PPB	
1,2-DICHLOROBENZENE	95-50-1	0	PPB	
1,4-DICHLOROBENZENE	106-46-7	0	PPB	

Trench 7, # 17

Information from Data File:

File : C:\HPCHEM\1\DATA\100896_8.D
Operator : MS
Acquired : 10 Jun 153 11:58 pm using AcqMethod CWC
Sample Name: FT 6122-T07.17A
Misc Info : 100 TORR
Vial Number: 1

Search Libraries: C:\DATABASE\WILEY138.L Minimum Quality: 70
C:\DATABASE\NBS54K.L Minimum Quality: 70

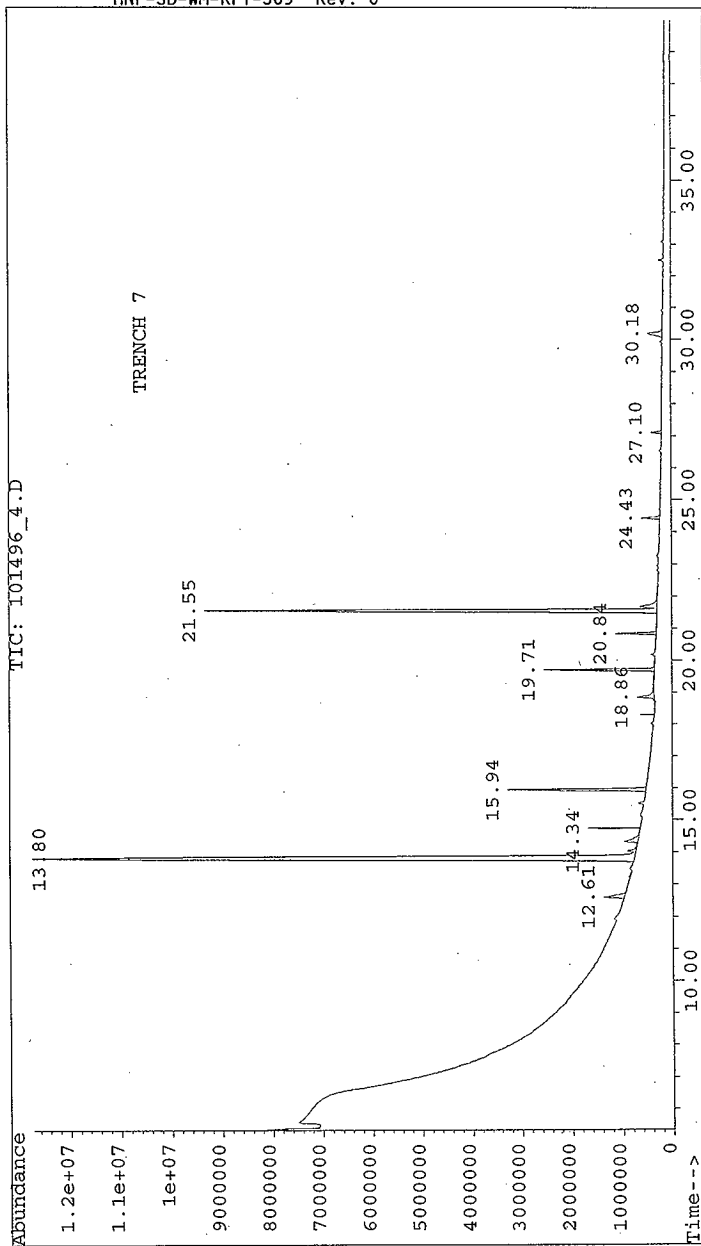
Unknown Spectrum: Apex
Integration Params: VOA.E

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
6	14.02	13.29	C:\DATABASE\WILEY138.L Ethane, 1,2-dichloro-1,1,2-trifluoro-	13203	000354-23-4	83
14	16.04	37.19	C:\DATABASE\WILEY138.L Ethane, 1,1,2-trichloro-1,2,2-trifluo	28085	000076-13-1	90
15	16.29	5.28	C:\DATABASE\WILEY138.L Ethane, 1,1,2-trichloro-1,2,2-trifluo	28085	000076-13-1	90
18	17.43	0.39	C:\DATABASE\WILEY138.L Ethene, 1,2-dichloro-, (Z)-	117548	000156-59-2	93
20	17.75	0.47	C:\DATABASE\WILEY138.L Propanamide	116472	000079-05-0	78
22	18.01	0.41	C:\DATABASE\WILEY138.L Ethane, 1,1-dichloro-	117653	000075-34-3	90
26	19.28	0.24	C:\DATABASE\WILEY138.L Ethene, 1,2-dichloro-, (Z)-	117548	000156-59-2	93
29	19.74	9.87	C:\DATABASE\WILEY138.L Chloroform	3697	000067-66-3	83

35 21.65 20.48 C:\DATABASE\WILEY138.L
Methane, tetrachloro- 123819 000056-23-5 83

40 22.97 1.75 C:\DATABASE\WILEY138.L
Ethene, trichloro- 121020 000079-01-6 99

File : C:\HPCHEM\1\DATA\101496_4.D
Operator : MS
Acquired : 14 Oct 96 12:16 pm using AcqMethod CWC
Instrument : 5972 - In
Sample Name: FT 6122-TO7.18A
Misc Info : 100 TORR
Vial Number: 1



ANALYSIS REPORT FOR CWC AIR SAMPLES

File Name: 101496_4.D
 Analyst: MS
 Analysis Date: 10/14/96
 Method: CWC
 Sample Name: FT 6122-TO7.18A

COMPOUND NAME	CAS #	Concentration	Units	Comments
ISO-BUTANE	75-28-5	0	PPB	
VINYL CHLORIDE	75-01-4	0	PPB	
ETHANOL	64-17-5	5	PPB	
ACETONE	67-64-1	13	PPB	
2-PROPANOL	67-63-0	5	PPB	
1,1-DICHLOROETHENE	75-35-4	0	PPB	
FREON 113	76-13-1	74	PPB	
DICHLOROMETHANE	75-09-2	3	PPB	
1,1-DICHLOROETHANE	75-34-3	0	PPB	
2-BUTANONE	78-93-3	33	PPB	
N-HEXANE	110-54-3	0	PPB	
1,2-DICHLOROETHENE	156-59-2	0	PPB	
CHLOROFORM	67-66-3	69	PPB	
TETRAHYDROFURAN	109-99-9	0	PPB	
1,1,1-TRICHLOROETHANE	71-55-6	29	PPB	
1,2-DICHLOROETHANE	107-06-2	3	PPB	
BENZENE	71-43-2	0	PPB	
CARBON TETRACHLORIDE	56-23-5	766	PPB	
CYCLOHEXANE	110-82-7	209	PPB	
N-BUTANOL	71-36-3	24	PPB	
TRICHLOROETHENE	79-01-6	0	PPB	
4-METHYL-2-PENTANONE	108-10-1	0	PPB	
TOLUENE	108-88-3	0	PPB	
1,1,2-TRICHLOROETHANE	79-00-5	0	PPB	
TETRACHLOROETHENE	127-18-4	5	PPB	
CHLOROBENZENE	108-90-7	0	PPB	
ETHYLBENZENE	100-41-4	0	PPB	
M-XYLENE	108-38-3	0	PPB	
STYRENE	100-42-5	0	PPB	
O-XYLENE	95-47-6	0	PPB	
1,1,2,2-TETRACHLOROETHANE	79-34-5	0	PPB	
1,3,5-TRIMETHYLBENZENE	108-67-8	0	PPB	
1,2,4-TRIMETHYLBENZENE	95-63-6	0	PPB	
1,3-DICHLOROBENZENE	541-73-1	0	PPB	
1,2-DICHLOROBENZENE	95-50-1	0	PPB	
1,4-DICHLOROBENZENE	106-46-7	0	PPB	

Trench 7, # 18

Information from Data File:

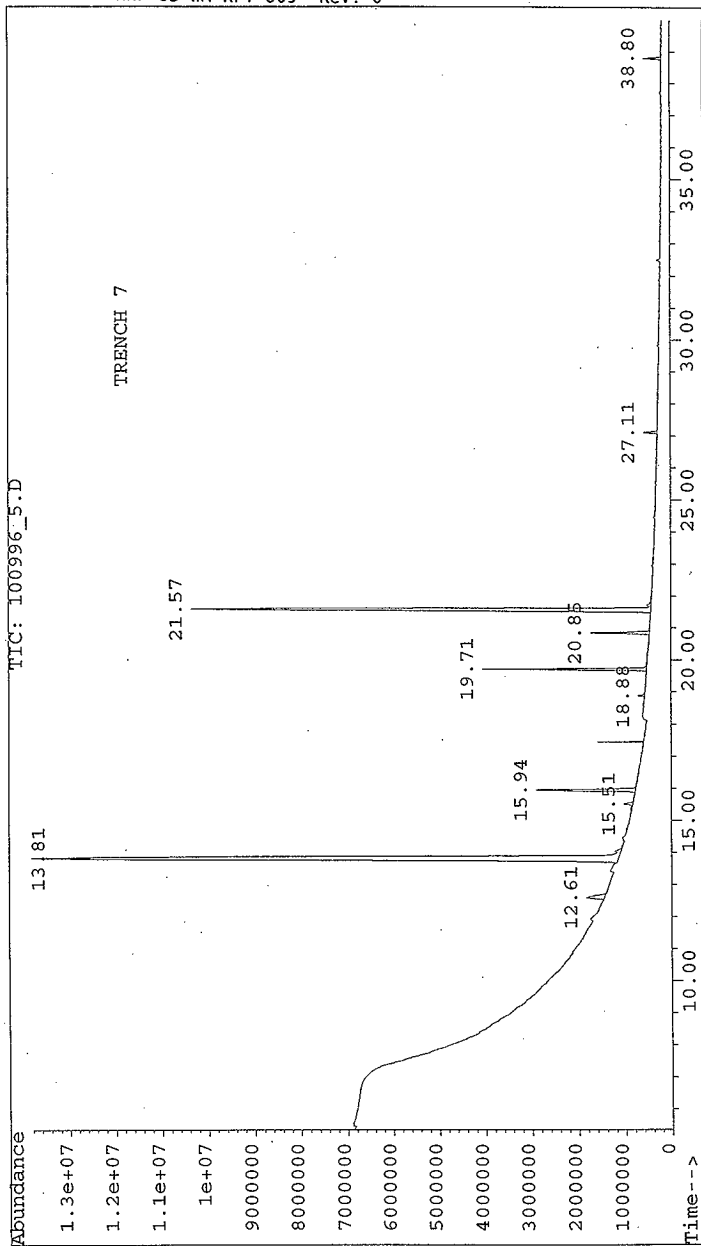
File : C:\HPCHEM\1\DATA\101496_4.D
Operator : MS
Acquired : 14 Oct 96 12:16 pm using AcqMethod CWC
Sample Name: FT 6122-TO7.18A
Misc Info : 100 TORR
Vial Number: 1

Search Libraries: C:\DATABASE\WILEY138.L Minimum Quality: 70
C:\DATABASE\NBS54K.L Minimum Quality: 70

Unknown Spectrum: Apex
Integration Params: VOA.E

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
5	13.80	50.96	C:\DATABASE\WILEY138.L Methane, trichlorofluoro-	121756	000075-69-4	90
11	15.94	6.20	C:\DATABASE\WILEY138.L Ethane, 1,1,2-trichloro-1,2,2-trifluo	28085	000076-13-1	87
18	19.71	3.89	C:\DATABASE\WILEY138.L Chloroform	119702	000067-66-3	86
21	21.55	24.89	C:\DATABASE\WILEY138.L Methane, tetrachloro-	13199	000056-23-5	90

File : C:\HPCHEM\1\DATA\100996_5.D
Operator : MS
Acquired : 11 Jun 153 8:23 pm using AcqMethod CWC
Instrument : 5972 - In
Sample Name: FT 6122-T07.19A
Misc Info : 100 TORR
Vial Number: 1



ANALYSIS REPORT FOR CWC AIR SAMPLES

File Name: 100996_5.D
 Analyst: MS
 Analysis Date: #VALUE!
 Method: CWC
 Sample Name: FT 6122-T07.19A

COMPOUND NAME	CAS #	Concentration	Units	Comments
ISO-BUTANE	75-28-5	0	PPB	
VINYL CHLORIDE	75-01-4	0	PPB	
ETHANOL	64-17-5	14	PPB	
ACETONE	67-64-1	0	PPB	
2-PROPANOL	67-63-0	0	PPB	
1,1-DICHLOROETHENE	75-35-4	0	PPB	
FREON 113	76-13-1	57	PPB	
DICHLOROMETHANE	75-09-2	0	PPB	
1,1-DICHLOROETHANE	75-34-3	0	PPB	
2-BUTANONE	78-93-3	0	PPB	
N-HEXANE	110-54-3	0	PPB	
1,2-DICHLOROETHENE	156-59-2	0	PPB	
CHLOROFORM	67-66-3	111	PPB	
TETRAHYDROFURAN	109-99-9	0	PPB	
1,1,1-TRICHLOROETHANE	71-55-6	47	PPB	
1,2-DICHLOROETHANE	107-06-2	6	PPB	
BENZENE	71-43-2	0	PPB	
CARBON TETRACHLORIDE	56-23-5	958	PPB	
CYCLOHEXANE	110-82-7	263	PPB	
N-BUTANOL	71-36-3	4	PPB	
TRICHLOROETHENE	79-01-6	0	PPB	
4-METHYL-2-PENTANONE	108-10-1	0	PPB	
TOLUENE	108-88-3	0	PPB	
1,1,2-TRICHLOROETHANE	79-00-5	0	PPB	
TETRACHLOROETHENE	127-18-4	7	PPB	
CHLOROBENZENE	108-90-7	0	PPB	
ETHYLBENZENE	100-41-4	0	PPB	
M-XYLENE	108-38-3	0	PPB	
STYRENE	100-42-5	0	PPB	
O-XYLENE	95-47-6	0	PPB	
1,1,2,2-TETRACHLOROETHANE	79-34-5	0	PPB	
1,3,5-TRIMETHYLBENZENE	108-67-8	0	PPB	
1,2,4-TRIMETHYLBENZENE	95-63-6	0	PPB	
1,3-DICHLOROBENZENE	541-73-1	0	PPB	
1,2-DICHLOROBENZENE	95-50-1	0	PPB	
1,4-DICHLOROBENZENE	106-46-7	0	PPB	

Trench 7, # 19

Information from Data File:

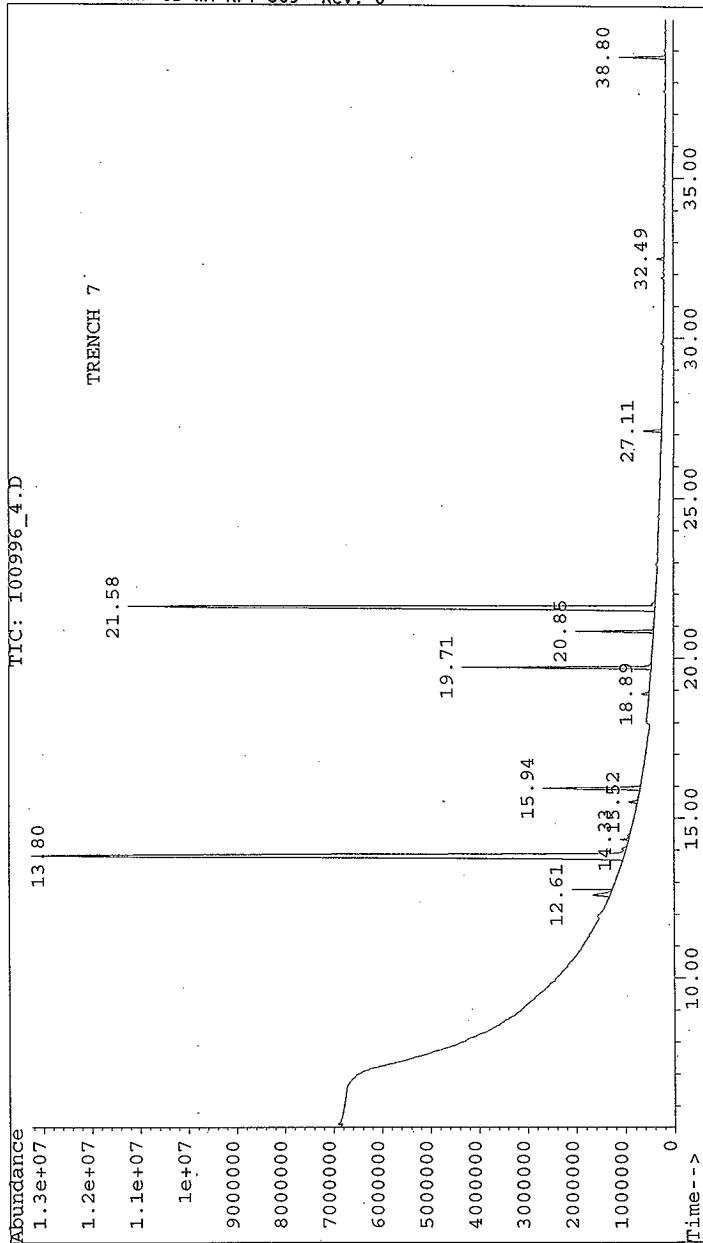
File : C:\HPCHEM\1\DATA\100996_5.D
Operator : MS
Acquired : 11 Jun 153 8:23 pm using AcqMethod CWC
Sample Name: FT 6122-T07.19A
Misc Info : 100 TORR
Vial Number: 1

Search Libraries: C:\DATABASE\WILEY138.L Minimum Quality: 70
C:\DATABASE\NBS54K.L Minimum Quality: 70

Unknown Spectrum: Apex
Integration Params: VOA.E

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
4	13.81	50.27	C:\DATABASE\WILEY138.L Methane, trichlorofluoro-	121756	000075-69-4	90
9	15.94	4.22	C:\DATABASE\WILEY138.L Ethane, 1,1,2-trichloro-1,2,2-trifluo	28085	000076-13-1	70
13	19.71	6.11	C:\DATABASE\WILEY138.L Chloroform	119702	000067-66-3	86
16	21.57	27.53	C:\DATABASE\WILEY138.L Methane, tetrachloro-	13199	000056-23-5	90
31	38.80	0.61	C:\DATABASE\WILEY138.L Naphthalene	120942	000091-20-3	92

File : C:\HPCHEM\1\DATA\100996_4.D
Operator : MS
Acquired : 11 Jun 153 7:18 pm using AcqMethod CWC
Instrument : 5972 - In
Sample Name: FT 6122-TO7.20A
Misc Info : 100 TORR
Vial Number: 1



ANALYSIS REPORT FOR CWC AIR SAMPLES

File Name: 100996_4.D
 Analyst: MS
 Analysis Date: #VALUE!
 Method: CWC
 Sample Name: FT 6122-T07.20A

COMPOUND NAME	CAS #	Concentration	Units	Comments
ISO-BUTANE	75-28-5	0	PPB	
VINYL CHLORIDE	75-01-4	0	PPB	
ETHANOL	64-17-5	0	PPB	
ACETONE	67-64-1	9	PPB	
2-PROPANOL	67-63-0	0	PPB	
1,1-DICHLOROETHENE	75-35-4	0	PPB	
FREON 113	76-13-1	52	PPB	
DICHLOROMETHANE	75-09-2	0	PPB	
1,1-DICHLOROETHANE	75-34-3	0	PPB	
2-BUTANONE	78-93-3	0	PPB	
N-HEXANE	110-54-3	0	PPB	
1,2-DICHLOROETHENE	156-59-2	0	PPB	
CHLOROFORM	67-66-3	122	PPB	
TETRAHYDROFURAN	109-99-9	0	PPB	
1,1,1-TRICHLOROETHANE	71-55-6	59	PPB	
1,2-DICHLOROETHANE	107-06-2	7	PPB	
BENZENE	71-43-2	0	PPB	
CARBON TETRACHLORIDE	56-23-5	1139	PPB	
CYCLOHEXANE	110-82-7	308	PPB	
N-BUTANOL	71-36-3	0	PPB	
TRICHLOROETHENE	79-01-6	0	PPB	
4-METHYL-2-PENTANONE	108-10-1	0	PPB	
TOLUENE	108-88-3	0	PPB	
1,1,2-TRICHLOROETHANE	79-00-5	0	PPB	
TETRACHLOROETHENE	127-18-4	8	PPB	
CHLOROBENZENE	108-90-7	0	PPB	
ETHYLBENZENE	100-41-4	0	PPB	
M-XYLENE	108-38-3	0	PPB	
STYRENE	100-42-5	0	PPB	
O-XYLENE	95-47-6	0	PPB	
1,1,2,2-TETRACHLOROETHANE	79-34-5	0	PPB	
1,3,5-TRIMETHYLBENZENE	108-67-8	0	PPB	
1,2,4-TRIMETHYLBENZENE	95-63-6	0	PPB	
1,3-DICHLOROBENZENE	541-73-1	0	PPB	
1,2-DICHLOROBENZENE	95-50-1	0	PPB	
1,4-DICHLOROBENZENE	106-46-7	0	PPB	

Trench 7, # 20

Information from Data File:

File : C:\HPCHEM\1\DATA\100996_4.D

Operator : MS

Acquired : 11 Jun 153 7:18 pm using AcqMethod CWC

Sample Name: FT 6122-TO7.20A

Misc Info : 100 TORR

Vial Number: 1

Search Libraries: C:\DATABASE\WILEY138.L Minimum Quality: 70

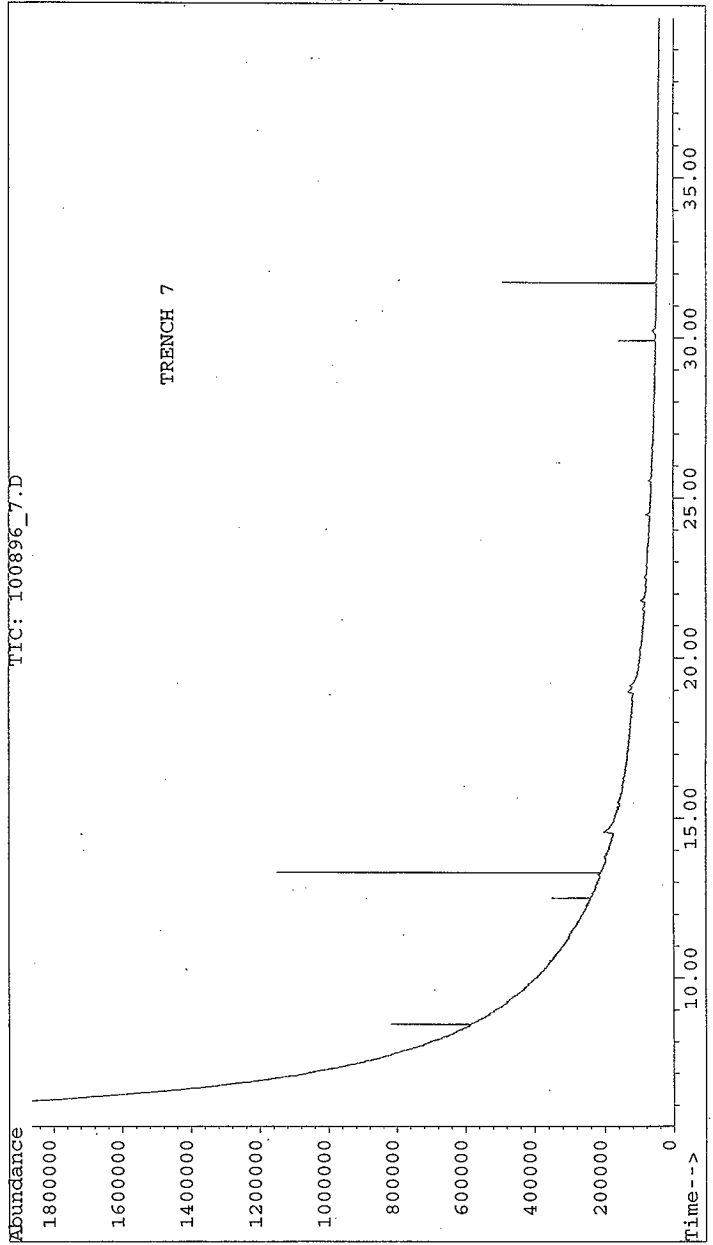
C:\DATABASE\NBS54K.L Minimum Quality: 70

Unknown Spectrum: Apex

Integration Params: VOA.E

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
4	13.80	44.54	C:\DATABASE\WILEY138.L Methane, trichlorofluoro-	121756	000075-69-4	90
9	15.94	4.04	C:\DATABASE\WILEY138.L Ethane, 1,1,2-trichloro-1,2,2-trifluo	28085	000076-13-1	70
15	19.71	6.41	C:\DATABASE\WILEY138.L Chloroform	119702	000067-66-3	86
17	21.58	32.83	C:\DATABASE\WILEY138.L Methane, tetrachloro-	123819	000056-23-5	90

File : C:\HPCHEM\1\DATA\100896_7.D
Operator : MS
Acquired : 10 Jun 153 10:36 pm using AcqMethod CWC
Instrument : 5972 - In
Sample Name: FT 6122-A07.21A
Misc Info : 100 TORR
Vial Number: 1



ANALYSIS REPORT FOR CWC AIR SAMPLES

File Name: 100896_7.D
 Analyst: MS
 Analysis Date: #VALUE!
 Method: CWC
 Sample Name: FT 6122-A07.21A

COMPOUND NAME	CAS #	Concentration	Units	Comments
ISO-BUTANE	75-28-5	0	PPB	
VINYL CHLORIDE	75-01-4	0	PPB	
ETHANOL	64-17-5	0	PPB	
ACETONE	67-64-1	0	PPB	
2-PROPANOL	67-63-0	0	PPB	
1,1-DICHLOROETHENE	75-35-4	0	PPB	
FREON 113	76-13-1	0	PPB	
DICHLOROMETHANE	75-09-2	0	PPB	
1,1-DICHLOROETHANE	75-34-3	0	PPB	
2-BUTANONE	78-93-3	0	PPB	
N-HEXANE	110-54-3	0	PPB	
1,2-DICHLOROETHENE	156-59-2	0	PPB	
CHLOROFORM	67-66-3	0	PPB	
TETRAHYDROFURAN	109-99-9	0	PPB	
1,1,1-TRICHLOROETHANE	71-55-6	0	PPB	
1,2-DICHLOROETHANE	107-06-2	0	PPB	
BENZENE	71-43-2	0	PPB	
CARBON TETRACHLORIDE	56-23-5	0	PPB	
CYCLOHEXANE	110-82-7	0	PPB	
N-BUTANOL	71-36-3	0	PPB	
TRICHLOROETHENE	79-01-6	0	PPB	
4-METHYL-2-PENTANONE	108-10-1	0	PPB	
TOLUENE	108-88-3	0	PPB	
1,1,2-TRICHLOROETHANE	79-00-5	0	PPB	
TETRACHLOROETHENE	127-18-4	0	PPB	
CHLOROBENZENE	108-90-7	0	PPB	
ETHYLBENZENE	100-41-4	0	PPB	
M-XYLENE	108-38-3	0	PPB	
STYRENE	100-42-5	0	PPB	
O-XYLENE	95-47-6	0	PPB	
1,1,2,2-TETRACHLOROETHANE	79-34-5	0	PPB	
1,3,5-TRIMETHYLBENZENE	108-67-8	0	PPB	
1,2,4-TRIMETHYLBENZENE	95-63-6	0	PPB	
1,3-DICHLOROBENZENE	541-73-1	0	PPB	
1,2-DICHLOROBENZENE	95-50-1	0	PPB	
1,4-DICHLOROBENZENE	106-46-7	0	PPB	

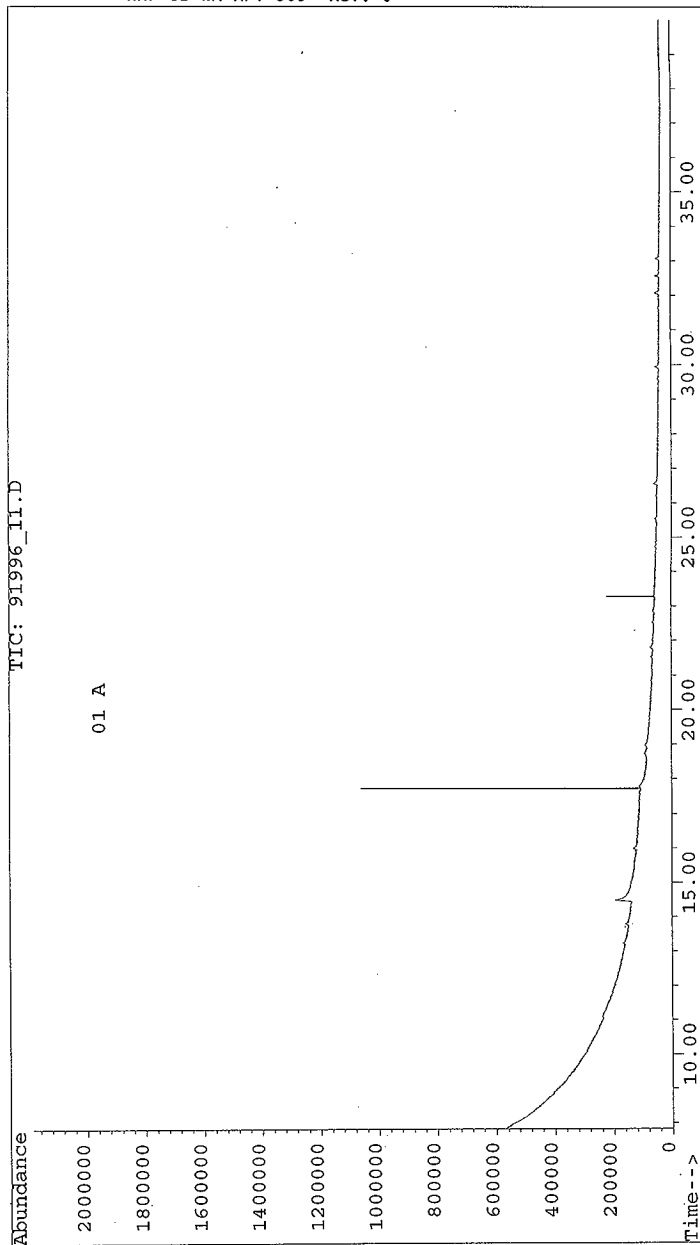
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APPENDIX B

**ANALYTICAL DATA FOR SAMPLING AND ANALYSIS OF AIR
AT TRENCH 218-W-5 #31 OF THE LOW-LEVEL BURIAL GROUND**

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File : C:\HPCHEM\1\DATA\91996_11.D
Operator : MS
Acquired : 19 Sep 96 5:25 pm using AcqMethod CWC
Instrument : 5972 - In
Sample Name: FT6106-P31.01A
Misc Info : 100 TORR
Vial Number: 1

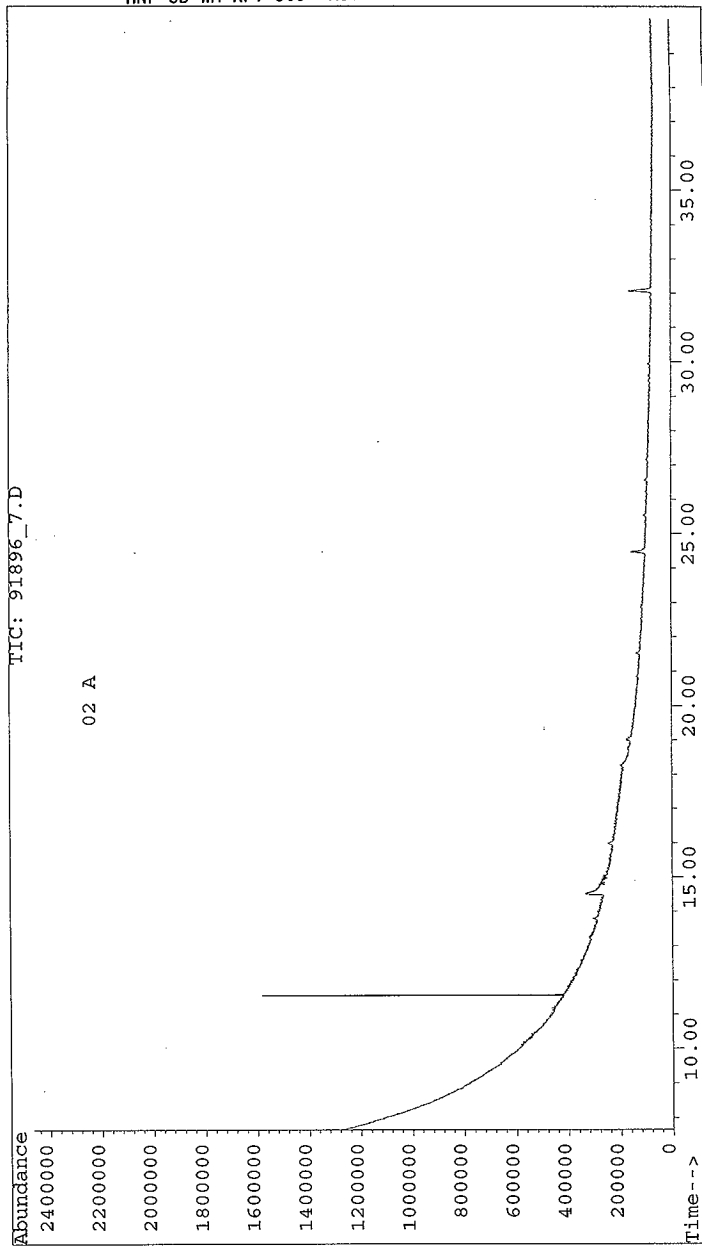


ANALYSIS REPORT FOR CWC AIR SAMPLES

File Name: 91996_11.D
 Analyst: MS
 Analysis Date: 09/19/96
 Method: CWC
 Sample Name: FT6106-P31.01A

COMPOUND NAME	CAS #	Concentration	Units	Comments
ISO-BUTANE	75-28-5	0	PPB	
VINYL CHLORIDE	75-01-4	0	PPB	
ETHANOL	64-17-5	0	PPB	
ACETONE	67-64-1	0	PPB	
2-PROPANOL	67-63-0	0	PPB	
1,1-DICHLOROETHENE	75-35-4	0	PPB	
FREON 113	76-13-1	0	PPB	
DICHLOROMETHANE	75-09-2	0	PPB	
1,1-DICHLOROETHANE	75-34-3	0	PPB	
2-BUTANONE	78-93-3	0	PPB	
N-HEXANE	110-54-3	0	PPB	
1,2-DICHLOROETHENE	156-59-2	0	PPB	
CHLOROFORM	67-66-3	0	PPB	
TETRAHYDROFURAN	109-99-9	0	PPB	
1,1,1-TRICHLOROETHANE	71-55-6	0	PPB	
1,2-DICHLOROETHANE	107-06-2	0	PPB	
BENZENE	71-43-2	0	PPB	
CARBON TETRACHLORIDE	56-23-5	0	PPB	
CYCLOHEXANE	110-82-7	0	PPB	
N-BUTANOL	71-36-3	0	PPB	
TRICHLOROETHENE	79-01-6	0	PPB	
4-METHYL-2-PENTANONE	108-10-1	0	PPB	
TOLUENE	108-88-3	0	PPB	
1,1,2-TRICHLOROETHANE	79-00-5	0	PPB	
TETRACHLOROETHENE	127-18-4	0	PPB	
CHLOROBENZENE	108-90-7	0	PPB	
ETHYLBENZENE	100-41-4	0	PPB	
M-XYLENE	108-38-3	0	PPB	
STYRENE	100-42-5	0	PPB	
O-XYLENE	95-47-6	0	PPB	
1,1,2,2-TETRACHLOROETHANE	79-34-5	0	PPB	
1,3,5-TRIMETHYLBENZENE	108-67-8	0	PPB	
1,2,4-TRIMETHYLBENZENE	95-63-6	0	PPB	
1,3-DICHLOROBENZENE	541-73-1	0	PPB	
1,2-DICHLOROBENZENE	95-50-1	0	PPB	
1,4-DICHLOROBENZENE	106-46-7	0	PPB	

File : C:\HPCHEM\1\DATA\91896_7.D
Operator : MS
Acquired : 18 Sep 96 7:25 pm using AcqMethod CWC
Instrument : 5972 - In
Sample Name: FT6106 P31.2A
Misc Info : 100 TORR
Vial Number: 1

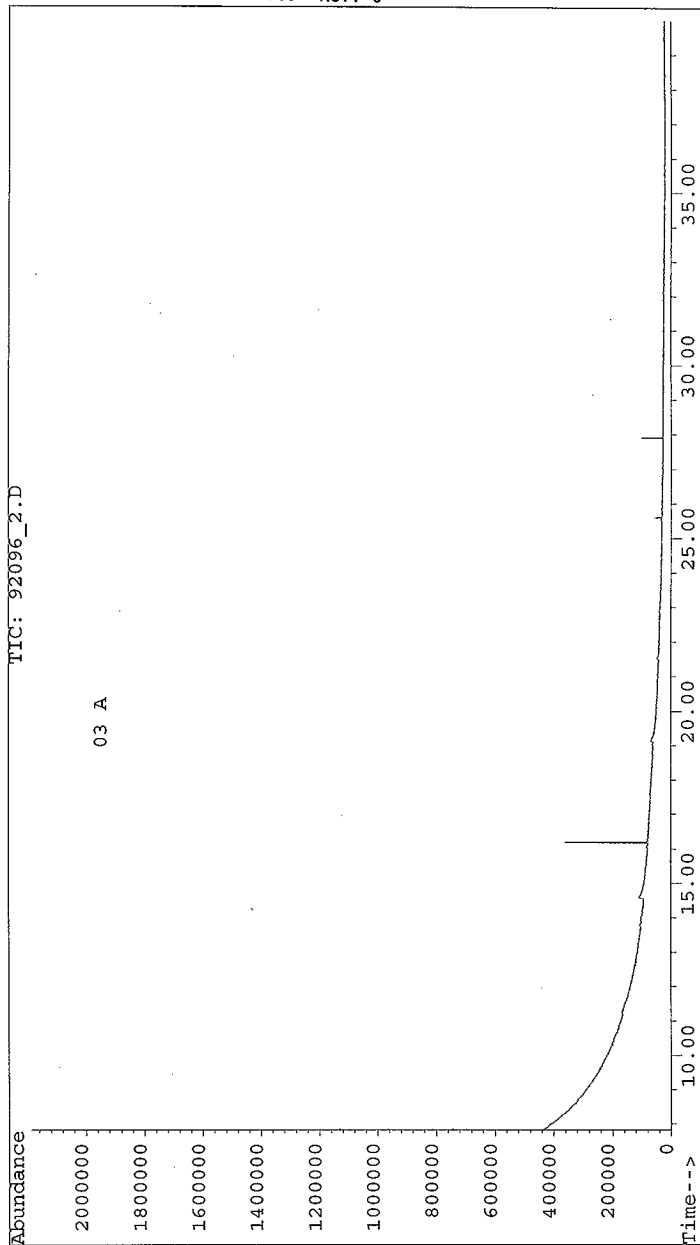


ANALYSIS REPORT FOR CWC AIR SAMPLES

File Name: 91896_7.D
 Analyst: MS
 Analysis Date: 09/18/96
 Method: CWC
 Sample Name: FT6106_P31.2A

COMPOUND NAME	CAS #	Concentration	Units	Comments
ISO-BUTANE	75-28-5	0	PPB	
VINYL CHLORIDE	75-01-4	0	PPB	
ETHANOL	64-17-5	0	PPB	
ACETONE	67-64-1	0	PPB	
2-PROPANOL	67-63-0	0	PPB	
1,1-DICHLOROETHENE	75-35-4	0	PPB	
FREON 113	76-13-1	0	PPB	
DICHLOROMETHANE	75-09-2	0	PPB	
1,1-DICHLOROETHANE	75-34-3	0	PPB	
2-BUTANONE	78-93-3	0	PPB	
N-HEXANE	110-54-3	0	PPB	
1,2-DICHLOROETHENE	156-59-2	0	PPB	
CHLOROFORM	67-66-3	0	PPB	
TETRAHYDROFURAN	109-99-9	0	PPB	
1,1,1-TRICHLOROETHANE	71-65-6	0	PPB	
1,2-DICHLOROETHANE	107-06-2	0	PPB	
BENZENE	71-43-2	0	PPB	
CARBON TETRACHLORIDE	56-23-5	0	PPB	
CYCLOHEXANE	110-82-7	0	PPB	
N-BUTANOL	71-36-3	0	PPB	
TRICHLOROETHENE	79-01-6	0	PPB	
4-METHYL-2-PENTANONE	108-10-1	0	PPB	
TOLUENE	108-88-3	0	PPB	
1,1,2-TRICHLOROETHANE	79-00-5	0	PPB	
TETRACHLOROETHENE	127-18-4	0	PPB	
CHLOROBENZENE	108-90-7	0	PPB	
ETHYLBENZENE	100-41-4	0	PPB	
M-XYLENE	108-38-3	0	PPB	
STYRENE	100-42-5	0	PPB	
O-XYLENE	95-47-6	0	PPB	
1,1,2,2-TETRACHLOROETHANE	79-34-5	0	PPB	
1,3,5-TRIMETHYLBENZENE	108-67-8	0	PPB	
1,2,4-TRIMETHYLBENZENE	95-63-6	0	PPB	
1,3-DICHLOROBENZENE	541-73-1	0	PPB	
1,2-DICHLOROBENZENE	95-50-1	0	PPB	
1,4-DICHLOROBENZENE	106-46-7	0	PPB	

File : C:\HPCHEM\1\DATA\92096_2.D
Operator : MS
Acquired : 20 Sep 96 10:38 am using AcqMethod CWC
Instrument : 5972 - In
Sample Name: FT 6106-P31.03A
Misc Info : 100 TORR
Vial Number: 1

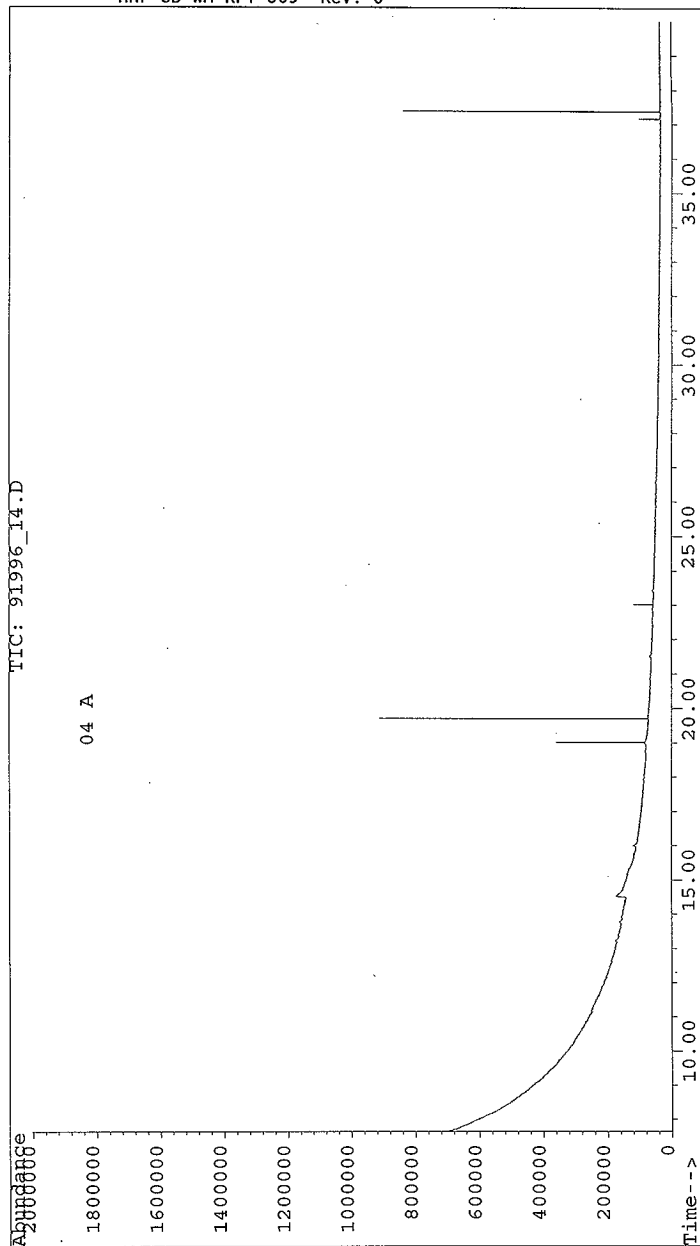


ANALYSIS REPORT FOR CWC AIR SAMPLES

File Name: 92096_2.D
 Analyst: MS
 Analysis Date: 09/20/96
 Method: CWC
 Sample Name: FT 6106-P31.03A

COMPOUND NAME	CAS #	Concentration	Units	Comments
ISO-BUTANE	75-28-5	0	PPB	
VINYL CHLORIDE	75-01-4	0	PPB	
ETHANOL	64-17-5	0	PPB	
ACETONE	67-64-1	0	PPB	
2-PROPANOL	67-63-0	0	PPB	
1,1-DICHLOROETHENE	75-35-4	0	PPB	
FREON 113	76-13-1	0	PPB	
DICHLOROMETHANE	75-09-2	0	PPB	
1,1-DICHLOROETHANE	75-34-3	0	PPB	
2-BUTANONE	78-93-3	0	PPB	
N-HEXANE	110-54-3	0	PPB	
1,2-DICHLOROETHENE	156-59-2	0	PPB	
CHLOROFORM	67-66-3	0	PPB	
TETRAHYDROFURAN	109-99-9	0	PPB	
1,1,1-TRICHLOROETHANE	71-55-6	0	PPB	
1,2-DICHLOROETHANE	107-06-2	0	PPB	
BENZENE	71-43-2	0	PPB	
CARBON TETRACHLORIDE	56-23-5	0	PPB	
CYCLOHEXANE	110-82-7	0	PPB	
N-BUTANOL	71-36-3	0	PPB	
TRICHLOROETHENE	79-01-6	0	PPB	
4-METHYL-2-PENTANONE	108-10-1	0	PPB	
TOLUENE	108-88-3	0	PPB	
1,1,2-TRICHLOROETHANE	79-00-5	0	PPB	
TETRACHLOROETHENE	127-18-4	0	PPB	
CHLOROBENZENE	108-90-7	0	PPB	
ETHYLBENZENE	100-41-4	0	PPB	
M-XYLENE	108-38-3	0	PPB	
STYRENE	100-42-5	0	PPB	
O-XYLENE	95-47-6	0	PPB	
1,1,2,2-TETRACHLOROETHANE	79-34-5	0	PPB	
1,3,5-TRIMETHYLBENZENE	108-67-8	0	PPB	
1,2,4-TRIMETHYLBENZENE	95-63-6	0	PPB	
1,3-DICHLOROBENZENE	541-73-1	0	PPB	
1,2-DICHLOROBENZENE	95-50-1	0	PPB	
1,4-DICHLOROBENZENE	106-46-7	0	PPB	

File : C:\HPCHEM\1\DATA\91996_14.D
Operator : MS
Acquired : 19 Sep 96 8:46 pm using AcqMethod CWC
Instrument : 5972 - In
Sample Name: FT6106-P31.04A
Misc Info : 100 TORR
Vial Number: 1

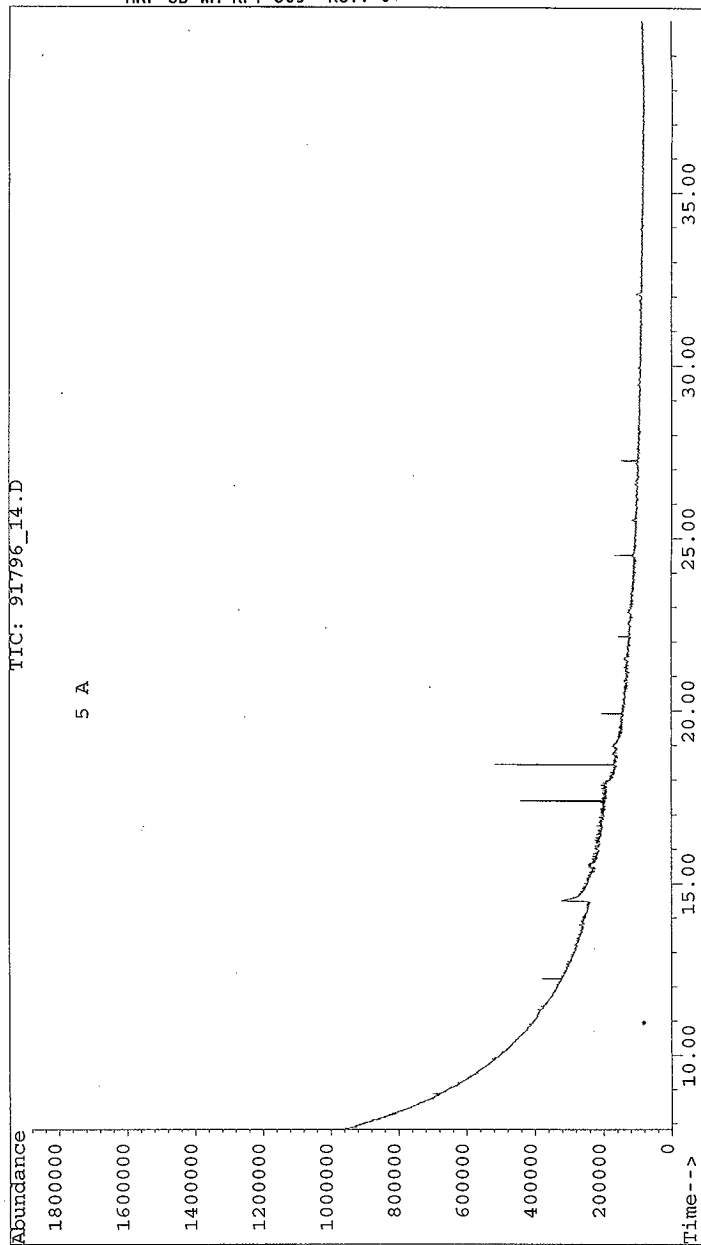


ANALYSIS REPORT FOR CWC AIR SAMPLES

File Name: 91996_14.D
 Analyst: MS
 Analysis Date: 09/19/96
 Method: CWC
 Sample Name: FT6106-P31.04A

COMPOUND NAME	CAS #	Concentration	Units	Comments
ISO-BUTANE	75-28-5	0	PPB	
VINYL CHLORIDE	75-01-4	0	PPB	
ETHANOL	64-17-5	0	PPB	
ACETONE	67-64-1	0	PPB	
2-PROPANOL	67-63-0	0	PPB	
1,1-DICHLOROETHENE	75-35-4	0	PPB	
FREON 113	76-13-1	0	PPB	
DICHLOROMETHANE	75-09-2	0	PPB	
1,1-DICHLOROETHANE	75-34-3	0	PPB	
2-BUTANONE	78-93-3	0	PPB	
N-HEXANE	110-54-3	0	PPB	
1,2-DICHLOROETHENE	156-59-2	0	PPB	
CHLOROFORM	67-66-3	0	PPB	
TETRAHYDROFURAN	109-99-9	0	PPB	
1,1,1-TRICHLOROETHANE	71-55-6	0	PPB	
1,2-DICHLOROETHANE	107-06-2	0	PPB	
BENZENE	71-43-2	0	PPB	
CARBON TETRACHLORIDE	56-23-5	0	PPB	
CYCLOHEXANE	110-82-7	0	PPB	
N-BUTANOL	71-36-3	0	PPB	
TRICHLOROETHENE	79-01-6	0	PPB	
4-METHYL-2-PENTANONE	108-10-1	0	PPB	
TOLUENE	108-88-3	0	PPB	
1,1,2-TRICHLOROETHANE	79-00-5	0	PPB	
TETRACHLOROETHENE	127-18-4	0	PPB	
CHLOROBENZENE	108-90-7	0	PPB	
ETHYLBENZENE	100-41-4	0	PPB	
M-XYLENE	108-38-3	0	PPB	
STYRENE	100-42-5	0	PPB	
O-XYLENE	95-47-6	0	PPB	
1,1,2,2-TETRACHLOROETHANE	79-34-5	0	PPB	
1,3,5-TRIMETHYLBENZENE	108-67-8	0	PPB	
1,2,4-TRIMETHYLBENZENE	95-63-6	0	PPB	
1,3-DICHLOROBENZENE	541-73-1	0	PPB	
1,2-DICHLOROBENZENE	95-50-1	0	PPB	
1,4-DICHLOROBENZENE	106-46-7	0	PPB	

File : C:\HPCHEM\1\DATA\91796_14.D
Operator : MS
Acquired : 17 Sep 96 8:43 pm using AcqMethod CWC
Instrument : 5972 - In
Sample Name: FT6106-P31.05A
Misc Info : 100 TORR
Vial Number: 1

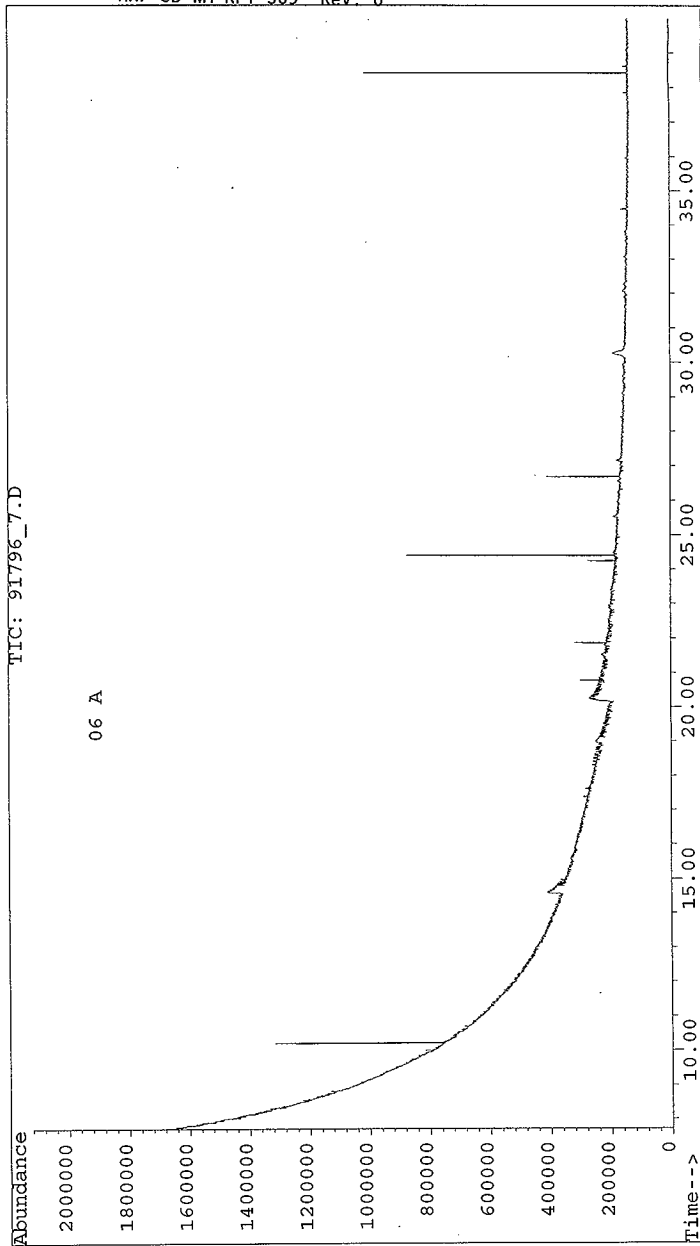


ANALYSIS REPORT FOR CWC AIR SAMPLES

File Name: 91796_14.D
 Analyst: MS
 Analysis Date: 09/17/96
 Method: CWC
 Sample Name: FT6106-P31.05A

COMPOUND NAME	CAS #	Concentration	Units	Comments
ISO-BUTANE	75-28-5	0	PPB	
VINYL CHLORIDE	75-01-4	0	PPB	
ETHANOL	64-17-5	0	PPB	
ACETONE	67-64-1	0	PPB	
2-PROPANOL	67-63-0	0	PPB	
1,1-DICHLOROETHENE	75-35-4	0	PPB	
FREON 113	76-13-1	0	PPB	
DICHLOROMETHANE	75-09-2	0	PPB	
1,1-DICHLOROETHANE	75-34-3	0	PPB	
2-BUTANONE	78-93-3	0	PPB	
N-HEXANE	110-54-3	0	PPB	
1,2-DICHLOROETHENE	156-59-2	0	PPB	
CHLOROFORM	67-66-3	0	PPB	
TETRAHYDROFURAN	109-99-9	0	PPB	
1,1,1-TRICHLOROETHANE	71-55-6	0	PPB	
1,2-DICHLOROETHANE	107-06-2	0	PPB	
BENZENE	71-43-2	0	PPB	
CARBON TETRACHLORIDE	56-23-5	0	PPB	
CYCLOHEXANE	110-82-7	0	PPB	
N-BUTANOL	71-36-3	0	PPB	
TRICHLOROETHENE	79-01-6	0	PPB	
4-METHYL-2-PENTANONE	108-10-1	0	PPB	
TOLUENE	108-88-3	0	PPB	
1,1,2-TRICHLOROETHANE	79-00-5	0	PPB	
TETRACHLOROETHENE	127-18-4	0	PPB	
CHLOROBENZENE	108-90-7	0	PPB	
ETHYLBENZENE	100-41-4	0	PPB	
M-XYLENE	108-38-3	0	PPB	
STYRENE	100-42-5	0	PPB	
O-XYLENE	95-47-6	0	PPB	
1,1,2,2-TETRACHLORETHANE	79-34-5	0	PPB	
1,3,5-TRIMETHYLBENZENE	108-67-8	0	PPB	
1,2,4-TRIMETHYLBENZENE	95-63-6	0	PPB	
1,3-DICHLOROBENZENE	541-73-1	0	PPB	
1,2-DICHLOROBENZENE	95-50-1	0	PPB	
1,4-DICHLOROBENZENE	106-46-7	0	PPB	

File : C:\HPCHEM\1\DATA\91796_7.D
Operator : LAP
Acquired : 17 Sep 96 11:04 am using AcqMethod CWC
Instrument : 5972 - In
Sample Name: FT6106-P31.06A
Misc Info : 100 TORR
Vial Number: 1

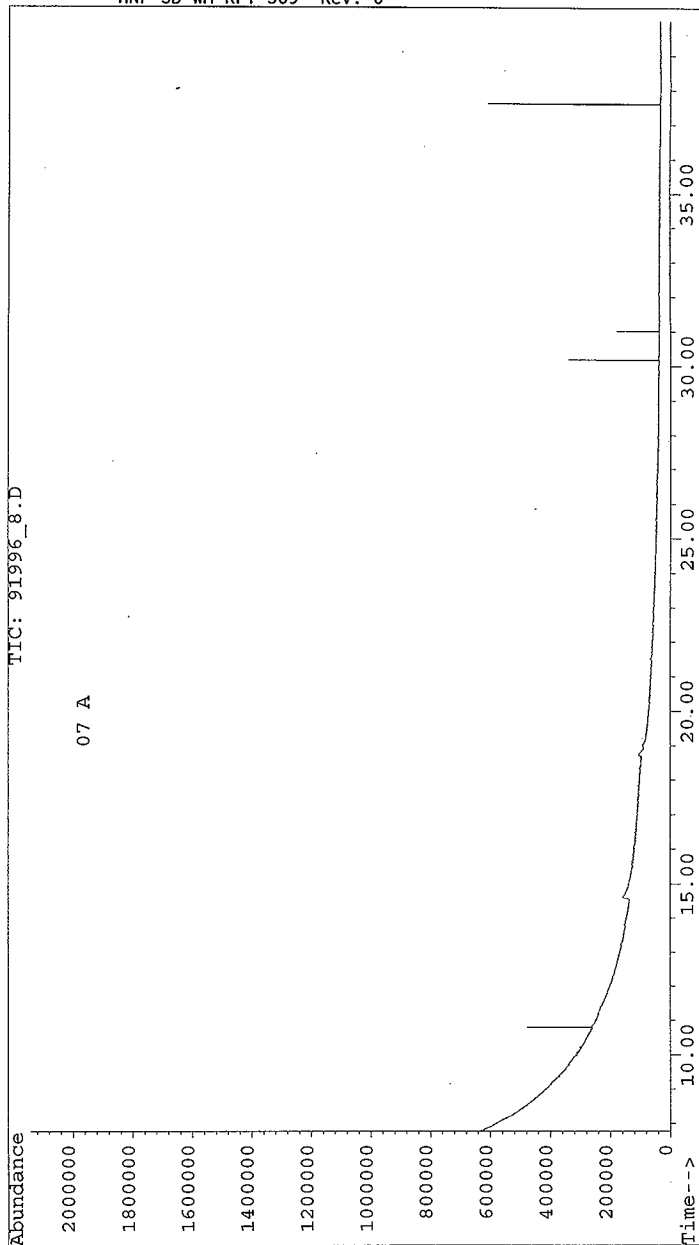


ANALYSIS REPORT FOR CWC AIR SAMPLES

File Name: 91796_7.D
 Analyst: LAP
 Analysis Date: 09/17/96
 Method: CWC
 Sample Name: FT6106-P31.06A

COMPOUND NAME	CAS #	Concentration	Units	Comments
ISO-BUTANE	75-28-5	0	PPB	
VINYL CHLORIDE	75-01-4	0	PPB	
ETHANOL	64-17-5	0	PPB	
ACETONE	67-64-1	0	PPB	
2-PROPANOL	67-63-0	0	PPB	
1,1-DICHLOROETHENE	75-35-4	0	PPB	
FREON 113	76-13-1	0	PPB	
DICHLOROMETHANE	75-09-2	0	PPB	
1,1-DICHLOROETHANE	75-34-3	0	PPB	
2-BUTANONE	78-93-3	0	PPB	
N-HEXANE	110-54-3	0	PPB	
1,2-DICHLOROETHENE	156-59-2	0	PPB	
CHLOROFORM	67-66-3	0	PPB	
TETRAHYDROFURAN	109-99-9	0	PPB	
1,1,1-TRICHLOROETHANE	71-55-6	0	PPB	
1,2-DICHLOROETHANE	107-06-2	0	PPB	
BENZENE	71-43-2	0	PPB	
CARBON TETRACHLORIDE	56-23-5	0	PPB	
CYCLOHEXANE	110-82-7	0	PPB	
N-BUTANOL	71-36-3	0	PPB	
TRICHLOROETHENE	79-01-6	0	PPB	
4-METHYL-2-PENTANONE	108-10-1	0	PPB	
TOLUENE	108-88-3	0	PPB	
1,1,2-TRICHLOROETHANE	79-00-5	0	PPB	
TETRACHLOROETHENE	127-18-4	0	PPB	
CHLOROBENZENE	108-90-7	0	PPB	
ETHYLBENZENE	100-41-4	0	PPB	
M-XYLENE	108-38-3	0	PPB	
STYRENE	100-42-5	0	PPB	
O-XYLENE	95-47-6	0	PPB	
1,1,2,2-TETRACHLOROETHANE	79-34-5	0	PPB	
1,3,5-TRIMETHYLBENZENE	108-67-8	0	PPB	
1,2,4-TRIMETHYLBENZENE	95-63-6	0	PPB	
1,3-DICHLOROBENZENE	541-73-1	0	PPB	
1,2-DICHLOROBENZENE	95-50-1	0	PPB	
1,4-DICHLOROBENZENE	106-46-7	0	PPB	

File : C:\HPCHEM\1\DATA\91996_8.D
Operator : LAP
Acquired : 19 Sep 96 1:02 pm using AcqMethod CWC
Instrument : 5972 - In
Sample Name: FT6106-P31.7A
Misc Info : 100 TORR
Vial Number: 1

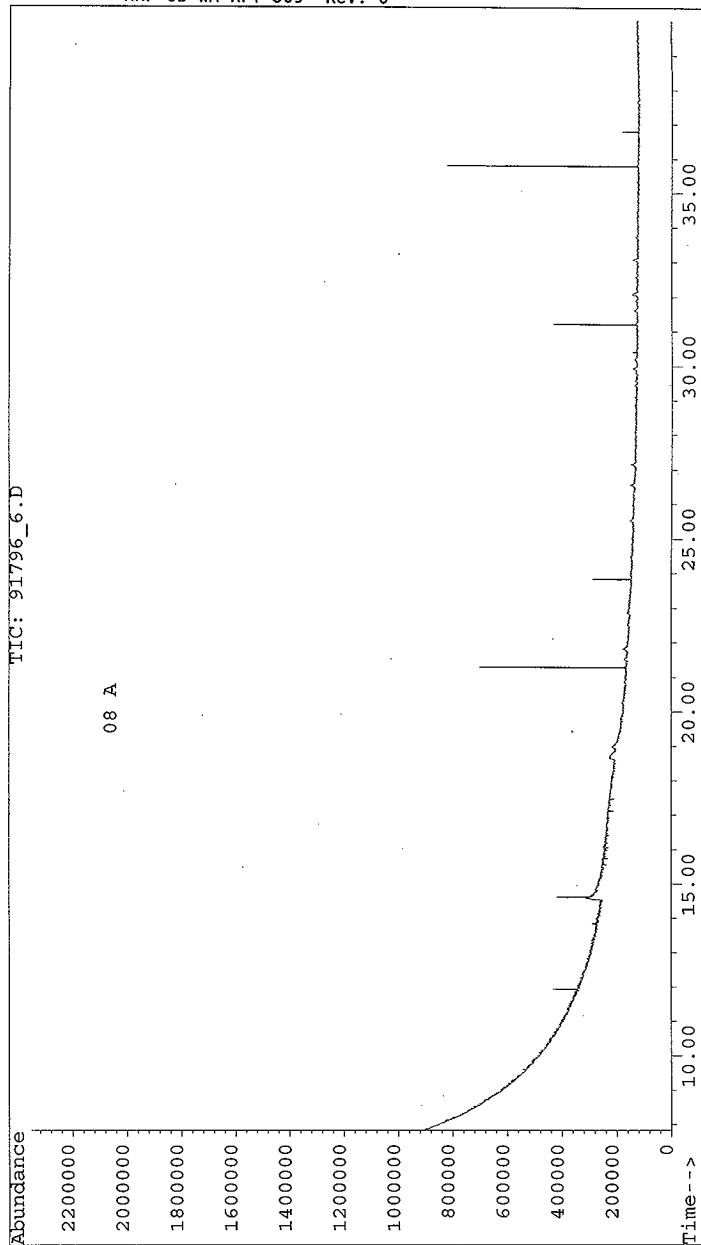


ANALYSIS REPORT FOR CWC AIR SAMPLES

File Name: 91996_8.D
 Analyst: LAP
 Analysis Date: 09/19/96
 Method: CWC
 Sample Name: FT6106-P31.7A

COMPOUND NAME	CAS #	Concentration	Units	Comments
ISO-BUTANE	75-28-5	0	PPB	
VINYL CHLORIDE	75-01-4	0	PPB	
ETHANOL	64-17-5	0	PPB	
ACETONE	67-64-1	0	PPB	
2-PROPANOL	67-63-0	0	PPB	
1,1-DICHLOROETHENE	75-35-4	0	PPB	
FREON 113	76-13-1	0	PPB	
DICHLOROMETHANE	75-09-2	0	PPB	
1,1-DICHLOROETHANE	75-34-3	0	PPB	
2-BUTANONE	78-93-3	0	PPB	
N-HEXANE	110-54-3	0	PPB	
1,2-DICHLOROETHENE	156-59-2	0	PPB	
CHLOROFORM	67-66-3	0	PPB	
TETRAHYDROFURAN	109-99-9	0	PPB	
1,1,1-TRICHLOROETHANE	71-55-6	0	PPB	
1,2-DICHLOROETHANE	107-06-2	0	PPB	
BENZENE	71-43-2	0	PPB	
CARBON TETRACHLORIDE	56-23-5	0	PPB	
CYCLOHEXANE	110-82-7	0	PPB	
N-BUTANOL	71-36-3	0	PPB	
TRICHLOROETHENE	79-01-6	0	PPB	
4-METHYL-2-PENTANONE	108-10-1	0	PPB	
TOLUENE	108-88-3	0	PPB	
1,1,2-TRICHLOROETHANE	79-00-5	0	PPB	
TETRACHLOROETHENE	127-18-4	0	PPB	
CHLOROBENZENE	108-90-7	0	PPB	
ETHYLBENZENE	100-41-4	0	PPB	
M-XYLENE	108-38-3	0	PPB	
STYRENE	100-42-5	0	PPB	
O-XYLENE	95-47-6	0	PPB	
1,1,2,2-TETRACHLOROETHANE	79-34-5	0	PPB	
1,3,5-TRIMETHYLBENZENE	108-67-8	0	PPB	
1,2,4-TRIMETHYLBENZENE	95-63-6	0	PPB	
1,3-DICHLOROBENZENE	541-73-1	0	PPB	
1,2-DICHLOROBENZENE	95-50-1	0	PPB	
1,4-DICHLOROBENZENE	106-46-7	0	PPB	

File : C:\HPCHEM\1\DATA\91796_6.D
Operator : LAP
Acquired : 17 Sep 96 10:10 am using AcqMethod CWC
Instrument : 5972 - In
Sample Name: FT6106-P31.08A
Misc Info : 100 TORR
Vial Number: 1

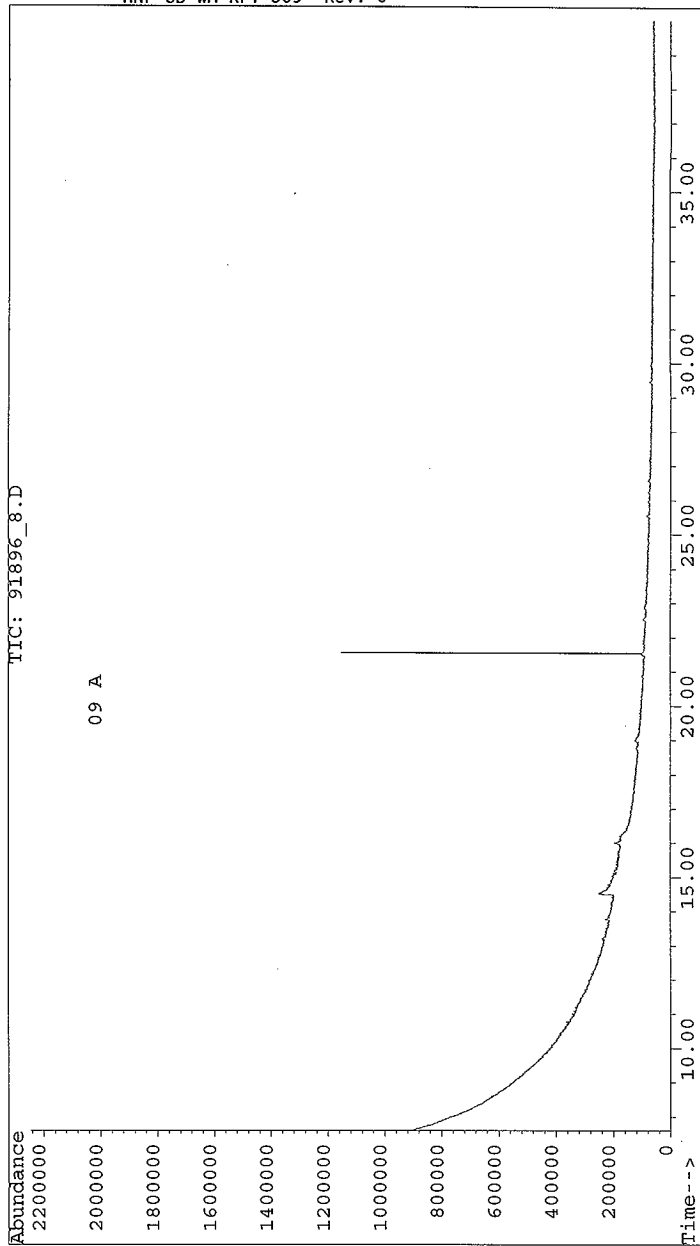


ANALYSIS REPORT FOR CWC AIR SAMPLES

File Name: 91796_6.D
 Analyst: LAP
 Analysis Date: 09/17/96
 Method: CWC
 Sample Name: FT6106-P31.08A

COMPOUND NAME	CAS #	Concentration	Units	Comments
ISO-BUTANE	75-28-5	0	PPB	
VINYL CHLORIDE	75-01-4	0	PPB	
ETHANOL	64-17-5	0	PPB	
ACETONE	67-64-1	0	PPB	
2-PROPANOL	67-63-0	0	PPB	
1,1-DICHLOROETHENE	75-35-4	0	PPB	
FREON 113	76-13-1	0	PPB	
DICHLOROMETHANE	75-09-2	0	PPB	
1,1-DICHLOROETHANE	75-34-3	0	PPB	
2-BUTANONE	78-93-3	0	PPB	
N-HEXANE	110-54-3	0	PPB	
1,2-DICHLOROETHENE	156-59-2	0	PPB	
CHLOROFORM	67-66-3	0	PPB	
TETRAHYDROFURAN	109-99-9	0	PPB	
1,1,1-TRICHLOROETHANE	71-55-6	0	PPB	
1,2-DICHLOROETHANE	107-06-2	0	PPB	
BENZENE	71-43-2	0	PPB	
CARBON TETRACHLORIDE	56-23-5	0	PPB	
CYCLOHEXANE	110-82-7	0	PPB	
N-BUTANOL	71-36-3	0	PPB	
TRICHLOROETHENE	79-01-6	0	PPB	
4-METHYL-2-PENTANONE	108-10-1	0	PPB	
TOLUENE	108-88-3	0	PPB	
1,1,2-TRICHLOROETHANE	79-00-5	0	PPB	
TETRACHLOROETHENE	127-18-4	0	PPB	
CHLOROBENZENE	108-90-7	0	PPB	
ETHYLBENZENE	100-41-4	0	PPB	
M-XYLENE	108-38-3	0	PPB	
STYRENE	100-42-5	0	PPB	
O-XYLENE	95-47-6	0	PPB	
1,1,2,2-TETRACHLOROETHANE	79-34-5	0	PPB	
1,3,5-TRIMETHYLBENZENE	108-67-8	0	PPB	
1,2,4-TRIMETHYLBENZENE	95-63-6	0	PPB	
1,3-DICHLOROBENZENE	541-73-1	0	PPB	
1,2-DICHLOROBENZENE	95-60-1	0	PPB	
1,4-DICHLOROBENZENE	106-46-7	0	PPB	

File : C:\HPCHEM\1\DATA\91896_8.D
Operator : MS
Acquired : 18 Sep 96 8:44 pm using AcqMethod CWC
Instrument : 5972 - In
Sample Name: FT6106_P31.9A
Misc Info : 100 TORR
Vial Number: 1

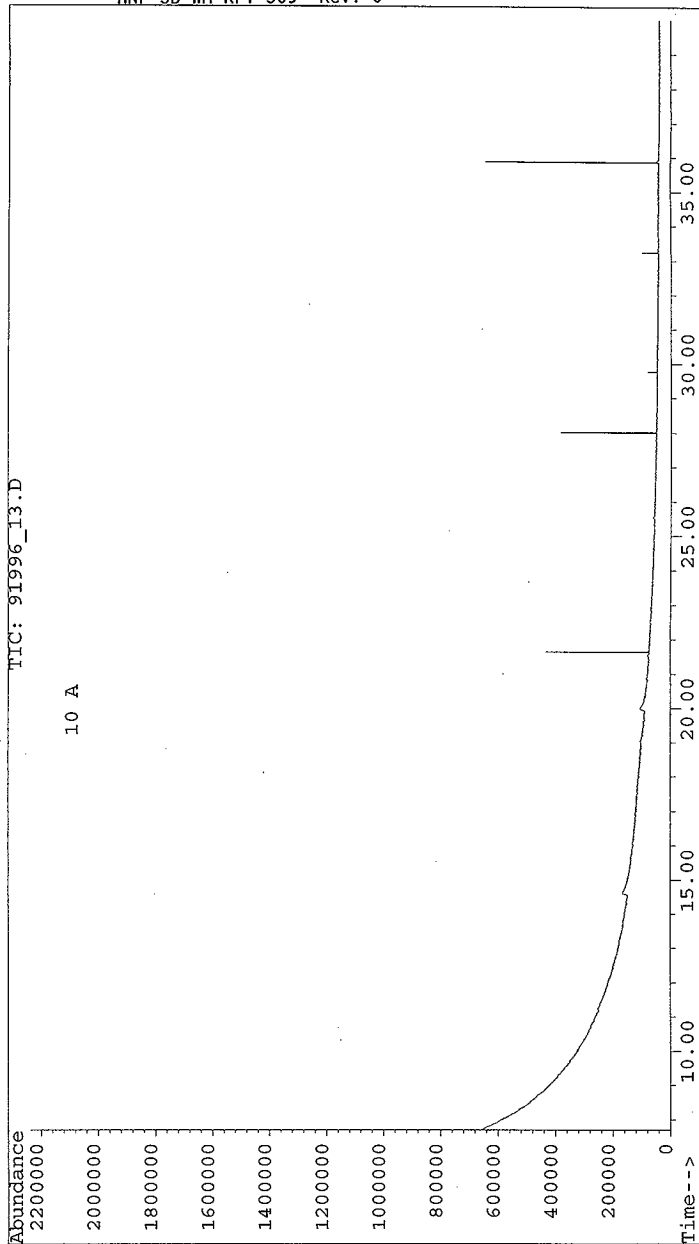


ANALYSIS REPORT FOR CWC AIR SAMPLES

File Name: 91896_8.D
 Analyst: MS
 Analysis Date: 09/18/96
 Method: CWC
 Sample Name: FT6106_P31.9A

COMPOUND NAME	CAS #	Concentration	Units	Comments
ISO-BUTANE	75-28-5	0	PPB	
VINYL CHLORIDE	75-01-4	0	PPB	
ETHANOL	64-17-5	0	PPB	
ACETONE	67-64-1	0	PPB	
2-PROPANOL	67-63-0	0	PPB	
1,1-DICHLOROETHENE	75-35-4	0	PPB	
FREON 113	76-13-1	0	PPB	
DICHLOROMETHANE	75-09-2	0	PPB	
1,1-DICHLOROETHANE	75-34-3	0	PPB	
2-BUTANONE	78-93-3	0	PPB	
N-HEXANE	110-54-3	0	PPB	
1,2-DICHLOROETHENE	156-59-2	0	PPB	
CHLOROFORM	67-66-3	0	PPB	
TETRAHYDROFURAN	109-99-9	0	PPB	
1,1,1-TRICHLOROETHANE	71-55-6	0	PPB	
1,2-DICHLOROETHANE	107-06-2	0	PPB	
BENZENE	71-43-2	0	PPB	
CARBON TETRACHLORIDE	56-23-5	0	PPB	
CYCLOHEXANE	110-82-7	0	PPB	
N-BUTANOL	71-36-3	0	PPB	
TRICHLOROETHENE	79-01-6	0	PPB	
4-METHYL-2-PENTANONE	108-10-1	0	PPB	
TOLUENE	108-88-3	0	PPB	
1,1,2-TRICHLOROETHANE	79-00-5	0	PPB	
TETRACHLOROETHENE	127-18-4	0	PPB	
CHLOROBENZENE	108-90-7	0	PPB	
ETHYLBENZENE	100-41-4	0	PPB	
M-XYLENE	108-38-3	0	PPB	
STYRENE	100-42-5	0	PPB	
O-XYLENE	95-47-6	0	PPB	
1,1,2,2-TETRACHLOROETHANE	79-34-5	0	PPB	
1,3,5-TRIMETHYLBENZENE	108-67-8	0	PPB	
1,2,4-TRIMETHYLBENZENE	95-63-6	0	PPB	
1,3-DICHLOROBENZENE	541-73-1	0	PPB	
1,2-DICHLOROBENZENE	95-60-1	0	PPB	
1,4-DICHLOROBENZENE	106-46-7	0	PPB	

File : C:\HPCHEM\1\DATA\91996_13.D
Operator : MS
Acquired : 19 Sep 96 7:18 pm using AcqMethod CWC
Instrument : 5972 - In
Sample Name: FT6106-P31.10A
Misc Info : 100 TORR
Vial Number: 1

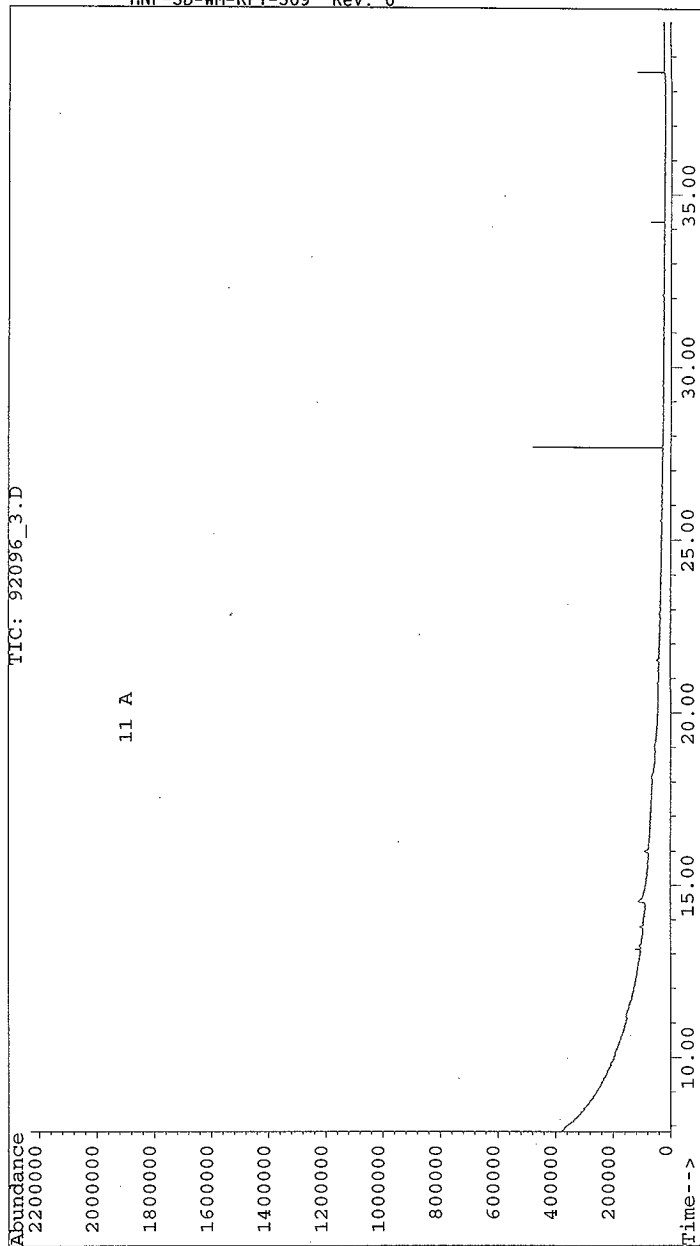


ANALYSIS REPORT FOR CWC AIR SAMPLES

File Name: 91996_13.D
 Analyst: MS
 Analysis Date: 09/19/96
 Method: CWC
 Sample Name: FT6106-P31.10A

COMPOUND NAME	CAS #	Concentration	Units	Comments
ISO-BUTANE	75-28-5	0	PPB	
VINYL CHLORIDE	75-01-4	0	PPB	
ETHANOL	64-17-5	0	PPB	
ACETONE	67-64-1	0	PPB	
2-PROPANOL	67-63-0	0	PPB	
1,1-DICHLOROETHENE	75-35-4	0	PPB	
FREON 113	76-13-1	0	PPB	
DICHLOROMETHANE	75-09-2	0	PPB	
1,1-DICHLOROETHANE	75-34-3	0	PPB	
2-BUTANONE	78-93-3	0	PPB	
N-HEXANE	110-54-3	0	PPB	
1,2-DICHLOROETHENE	156-59-2	0	PPB	
CHLOROFORM	67-66-3	0	PPB	
TETRAHYDROFURAN	109-99-9	0	PPB	
1,1,1-TRICHLOROETHANE	71-55-6	0	PPB	
1,2-DICHLOROETHANE	107-06-2	0	PPB	
BENZENE	71-43-2	0	PPB	
CARBON TETRACHLORIDE	56-23-5	0	PPB	
CYCLOHEXANE	110-82-7	0	PPB	
N-BUTANOL	71-36-3	0	PPB	
TRICHLOROETHENE	79-01-6	0	PPB	
4-METHYL-2-PENTANONE	108-10-1	0	PPB	
TOLUENE	108-88-3	0	PPB	
1,1,2-TRICHLOROETHANE	79-00-5	0	PPB	
TETRACHLOROETHENE	127-18-4	0	PPB	
CHLOROBENZENE	108-90-7	0	PPB	
ETHYLBENZENE	100-41-4	0	PPB	
M-XYLENE	108-38-3	0	PPB	
STYRENE	100-42-5	0	PPB	
O-XYLENE	95-47-6	0	PPB	
1,1,2,2-TETRACHLOROETHANE	79-34-5	0	PPB	
1,3,5-TRIMETHYLBENZENE	108-67-8	0	PPB	
1,2,4-TRIMETHYLBENZENE	95-63-6	0	PPB	
1,3-DICHLOROBENZENE	541-73-1	0	PPB	
1,2-DICHLOROBENZENE	95-50-1	0	PPB	
1,4-DICHLOROBENZENE	106-46-7	0	PPB	

File : C:\HPCHEM\1\DATA\92096_3.D
Operator : MS
Acquired : 20 Sep 96 11:41 am using AcqMethod CWC
Instrument : 5972 - In
Sample Name: FT 6106-P31.11A
Misc Info : 100 TORR
Vial Number: 1

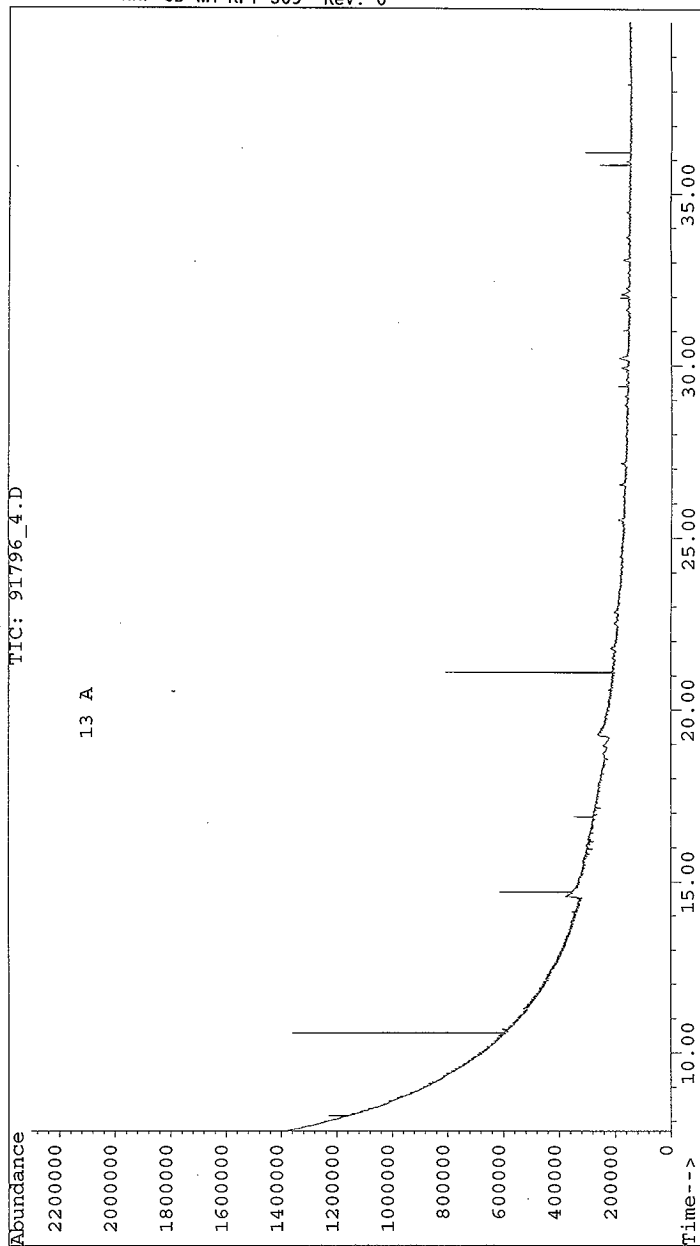


ANALYSIS REPORT FOR CWC AIR SAMPLES

File Name: 92096_3.D
 Analyst: MS
 Analysis Date: 09/20/96
 Method: CWC
 Sample Name: FT 6106-P31.11A

COMPOUND NAME	CAS #	Concentration	Units	Comments
ISO-BUTANE	75-28-5	0	PPB	
VINYL CHLORIDE	75-01-4	0	PPB	
ETHANOL	64-17-5	0	PPB	
ACETONE	67-64-1	0	PPB	
2-PROPANOL	67-63-0	0	PPB	
1,1-DICHLOROETHENE	75-35-4	0	PPB	
FREON 113	76-13-1	0	PPB	
DICHLOROMETHANE	75-09-2	0	PPB	
1,1-DICHLOROETHANE	75-34-3	0	PPB	
2-BUTANONE	78-93-3	0	PPB	
N-HEXANE	110-54-3	0	PPB	
1,2-DICHLOROETHENE	156-59-2	0	PPB	
CHLOROFORM	67-66-3	0	PPB	
TETRAHYDROFURAN	109-99-9	0	PPB	
1,1,1-TRICHLOROETHANE	71-55-6	0	PPB	
1,2-DICHLOROETHANE	107-06-2	0	PPB	
BENZENE	71-43-2	0	PPB	
CARBON TETRACHLORIDE	56-23-5	0	PPB	
CYCLOHEXANE	110-82-7	0	PPB	
N-BUTANOL	71-36-3	0	PPB	
TRICHLOROETHENE	79-01-6	0	PPB	
4-METHYL-2-PENTANONE	108-10-1	0	PPB	
TOLUENE	108-88-3	0	PPB	
1,1,2-TRICHLOROETHANE	79-00-5	0	PPB	
TETRACHLOROETHENE	127-18-4	0	PPB	
CHLOROBENZENE	108-90-7	0	PPB	
ETHYLBENZENE	100-41-4	0	PPB	
M-XYLENE	108-38-3	0	PPB	
STYRENE	100-42-5	0	PPB	
O-XYLENE	95-47-6	0	PPB	
1,1,2,2-TETRACHLOROETHANE	79-34-5	0	PPB	
1,3,5-TRIMETHYLBENZENE	108-67-8	0	PPB	
1,2,4-TRIMETHYLBENZENE	95-63-6	0	PPB	
1,3-DICHLOROBENZENE	541-73-1	0	PPB	
1,2-DICHLOROBENZENE	95-60-1	0	PPB	
1,4-DICHLOROBENZENE	106-46-7	0	PPB	

File : C:\HPCHEM\1\DATA\91796_4.D
Operator : LAP
Acquired : 17 Sep 96 8:13 am using AcqMethod CWC
Instrument : 5972 - In
Sample Name: FT6106-P31.13A
Misc Info : 100 TORR
Vial Number: 1

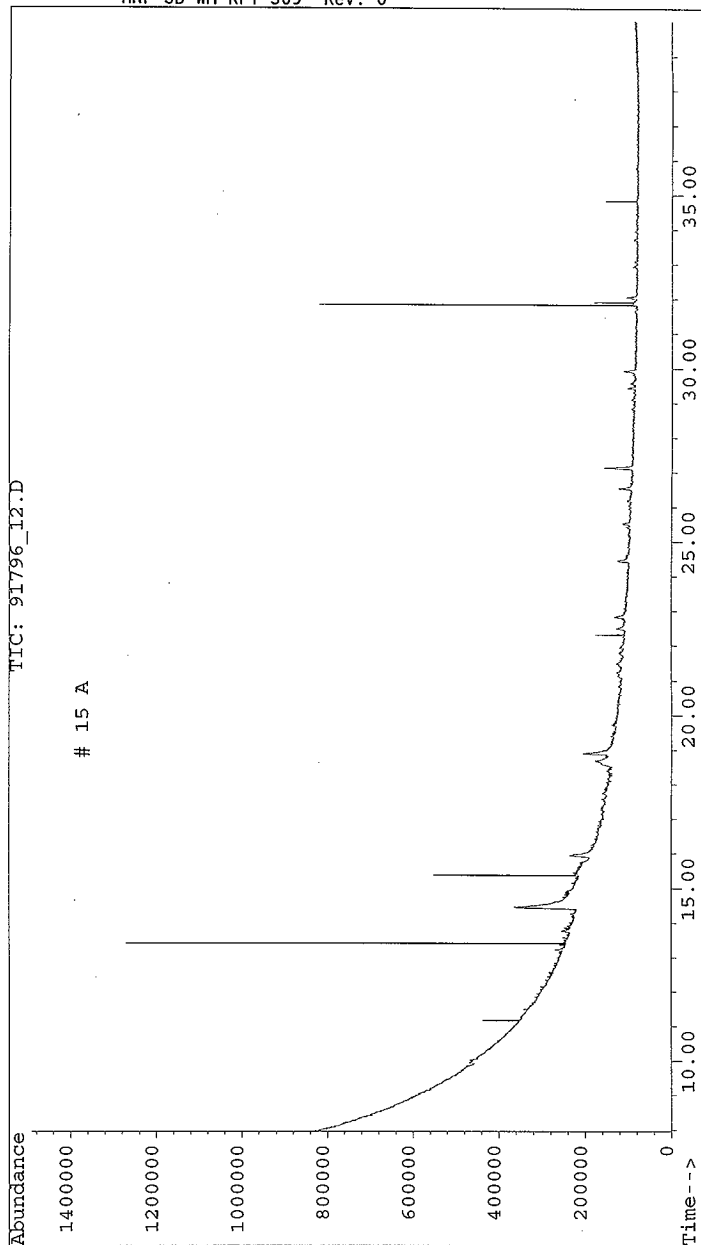


ANALYSIS REPORT FOR CWC AIR SAMPLES

File Name: 91796_4.D
 Analyst: LAP
 Analysis Date: 09/17/96
 Method: CWC
 Sample Name: FT6106-P31.13A

COMPOUND NAME	CAS #	Concentration	Units	Comments
ISO-BUTANE	75-28-5	0	PPB	
VINYL CHLORIDE	75-01-4	0	PPB	
ETHANOL	64-17-5	0	PPB	
ACETONE	67-64-1	0	PPB	
2-PROPANOL	67-63-0	0	PPB	
1,1-DICHLOROETHENE	75-35-4	0	PPB	
FREON 113	76-13-1	0	PPB	
DICHLOROMETHANE	75-09-2	0	PPB	
1,1-DICHLOROETHANE	75-34-3	0	PPB	
2-BUTANONE	78-93-3	0	PPB	
N-HEXANE	110-54-3	0	PPB	
1,2-DICHLOROETHENE	156-59-2	0	PPB	
CHLOROFORM	67-66-3	0	PPB	
TETRAHYDROFURAN	109-99-9	0	PPB	
1,1,1-TRICHLOROETHANE	71-55-6	0	PPB	
1,2-DICHLOROETHANE	107-06-2	0	PPB	
BENZENE	71-43-2	0	PPB	
CARBON TETRACHLORIDE	56-23-5	0	PPB	
CYCLOHEXANE	110-82-7	0	PPB	
N-BUTANOL	71-36-3	0	PPB	
TRICHLOROETHENE	79-01-6	0	PPB	
4-METHYL-2-PENTANONE	108-10-1	0	PPB	
TOLUENE	108-88-3	0	PPB	
1,1,2-TRICHLOROETHANE	79-00-5	0	PPB	
TETRACHLOROETHENE	127-18-4	0	PPB	
CHLOROBENZENE	108-90-7	0	PPB	
ETHYLBENZENE	100-41-4	0	PPB	
M-XYLENE	108-38-3	0	PPB	
STYRENE	100-42-5	0	PPB	
O-XYLENE	95-47-6	0	PPB	
1,1,2,2-TETRACHLOROETHANE	79-34-5	0	PPB	
1,3,5-TRIMETHYLBENZENE	108-67-8	0	PPB	
1,2,4-TRIMETHYLBENZENE	95-63-6	0	PPB	
1,3-DICHLOROBENZENE	541-73-1	0	PPB	
1,2-DICHLOROBENZENE	95-50-1	0	PPB	
1,4-DICHLOROBENZENE	106-46-7	0	PPB	

File : C:\HPCHEM\1\DATA\91796_12.D
Operator : MS
Acquired : 17 Sep 96 6:22 pm using AcqMethod CWC
Instrument : 5972 - In
Sample Name: FT6106-P31.15A
Misc Info : 100 TORR
Vial Number: 1

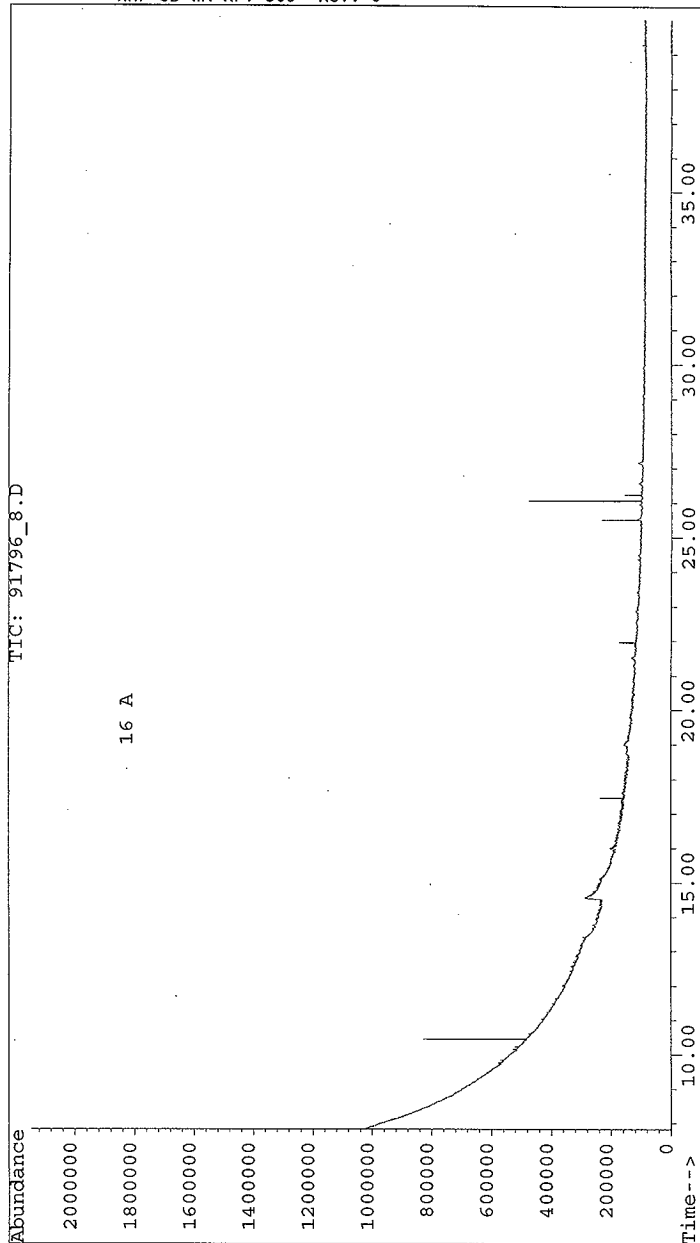


ANALYSIS REPORT FOR CWC AIR SAMPLES

File Name: 91796_12.D
 Analyst: MS
 Analysis Date: 09/17/96
 Method: CWC
 Sample Name: FT6106-P31.15A

COMPOUND NAME	CAS #	Concentration	Units	Comments
ISO-BUTANE	75-28-5	0	PPB	
VINYL CHLORIDE	75-01-4	0	PPB	
ETHANOL	64-17-5	0	PPB	
ACETONE	67-64-1	1	PPB	
2-PROPANOL	67-63-0	0	PPB	
1,1-DICHLOROETHENE	75-35-4	0	PPB	
FREON 113	76-13-1	0	PPB	
DICHLOROMETHANE	75-09-2	0	PPB	
1,1-DICHLOROETHANE	75-34-3	0	PPB	
2-BUTANONE	78-93-3	1	PPB	
N-HEXANE	110-54-3	0	PPB	
1,2-DICHLOROETHENE	156-59-2	0	PPB	
CHLOROFORM	67-66-3	0	PPB	
TETRAHYDROFURAN	109-99-9	0	PPB	
1,1,1-TRICHLOROETHANE	71-55-6	0	PPB	
1,2-DICHLOROETHANE	107-06-2	0	PPB	
BENZENE	71-43-2	0	PPB	
CARBON TETRACHLORIDE	56-23-5	0	PPB	
CYCLOHEXANE	110-82-7	0	PPB	
N-BUTANOL	71-36-3	0	PPB	
TRICHLOROETHENE	79-01-6	0	PPB	
4-METHYL-2-PENTANONE	108-10-1	0	PPB	
TOLUENE	108-88-3	0	PPB	
1,1,2-TRICHLOROETHANE	79-00-5	0	PPB	
TETRACHLOROETHENE	127-18-4	0	PPB	
CHLOROBENZENE	108-90-7	0	PPB	
ETHYLBENZENE	100-41-4	0	PPB	
M-XYLENE	108-38-3	0	PPB	
STYRENE	100-42-5	0	PPB	
O-XYLENE	95-47-6	0	PPB	
1,1,2,2-TETRACHLOROETHANE	79-34-5	0	PPB	
1,3,5-TRIMETHYLBENZENE	108-67-8	0	PPB	
1,2,4-TRIMETHYLBENZENE	95-63-6	0	PPB	
1,3-DICHLOROBENZENE	541-73-1	0	PPB	
1,2-DICHLOROBENZENE	95-50-1	0	PPB	
1,4-DICHLOROBENZENE	106-46-7	0	PPB	

File : C:\HPCHEM\1\DATA\91796_8.D
Operator : MS
Acquired : 17 Sep 96 1:14 pm using AcqMethod CWC
Instrument : 5972 - In
Sample Name: FT6106-P31.16A
Misc Info : 100 TORR
Vial Number: 1

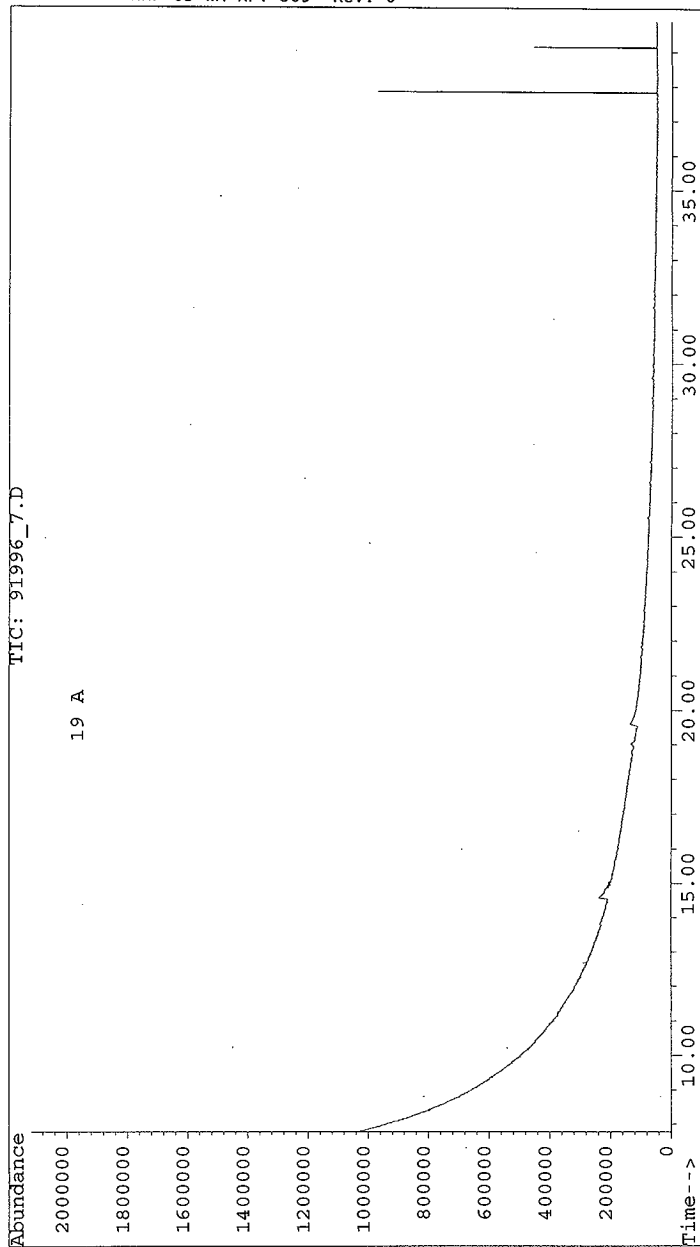


ANALYSIS REPORT FOR CWC AIR SAMPLES

File Name: 91796_8.D
 Analyst: MS
 Analysis Date: 09/17/96
 Method: CWC
 Sample Name: FT6106-P31.16A

COMPOUND NAME	CAS #	Concentration	Units	Comments
ISO-BUTANE	75-28-5	0	PPB	
VINYL CHLORIDE	75-01-4	0	PPB	
ETHANOL	64-17-5	0	PPB	
ACETONE	67-64-1	0	PPB	
2-PROPANOL	67-63-0	0	PPB	
1,1-DICHLOROETHENE	75-35-4	0	PPB	
FREON 113	76-13-1	0	PPB	
DICHLOROMETHANE	75-09-2	0	PPB	
1,1-DICHLOROETHANE	75-34-3	0	PPB	
2-BUTANONE	78-93-3	0	PPB	
N-HEXANE	110-54-3	0	PPB	
1,2-DICHLOROETHENE	156-59-2	0	PPB	
CHLOROFORM	67-66-3	0	PPB	
TETRAHYDROFURAN	109-99-9	0	PPB	
1,1,1-TRICHLOROETHANE	71-55-6	0	PPB	
1,2-DICHLOROETHANE	107-06-2	0	PPB	
BENZENE	71-43-2	0	PPB	
CARBON TETRACHLORIDE	56-23-5	0	PPB	
CYCLOHEXANE	110-82-7	0	PPB	
N-BUTANOL	71-36-3	0	PPB	
TRICHLOROETHENE	79-01-6	0	PPB	
4-METHYL-2-PENTANONE	108-10-1	0	PPB	
TOLUENE	108-88-3	0	PPB	
1,1,2-TRICHLOROETHANE	79-00-5	0	PPB	
TETRACHLOROETHENE	127-18-4	0	PPB	
CHLOROBENZENE	108-90-7	0	PPB	
ETHYLBENZENE	100-41-4	0	PPB	
M-XYLENE	108-38-3	0	PPB	
STYRENE	100-42-5	0	PPB	
O-XYLENE	95-47-6	0	PPB	
1,1,2,2-TETRACHLOROETHANE	79-34-5	0	PPB	
1,3,5-TRIMETHYLBENZENE	108-67-8	0	PPB	
1,2,4-TRIMETHYLBENZENE	95-63-6	0	PPB	
1,3-DICHLOROBENZENE	541-73-1	0	PPB	
1,2-DICHLOROBENZENE	95-50-1	0	PPB	
1,4-DICHLOROBENZENE	106-46-7	0	PPB	

File : C:\HPCHEM\1\DATA\91996_7.D
Operator : LAP
Acquired : 19 Sep 96 10:21 am using AcqMethod CWC
Instrument : 5972 - In
Sample Name: FT6106-P31.19A
Misc Info : 100 TORR
Vial Number: 1

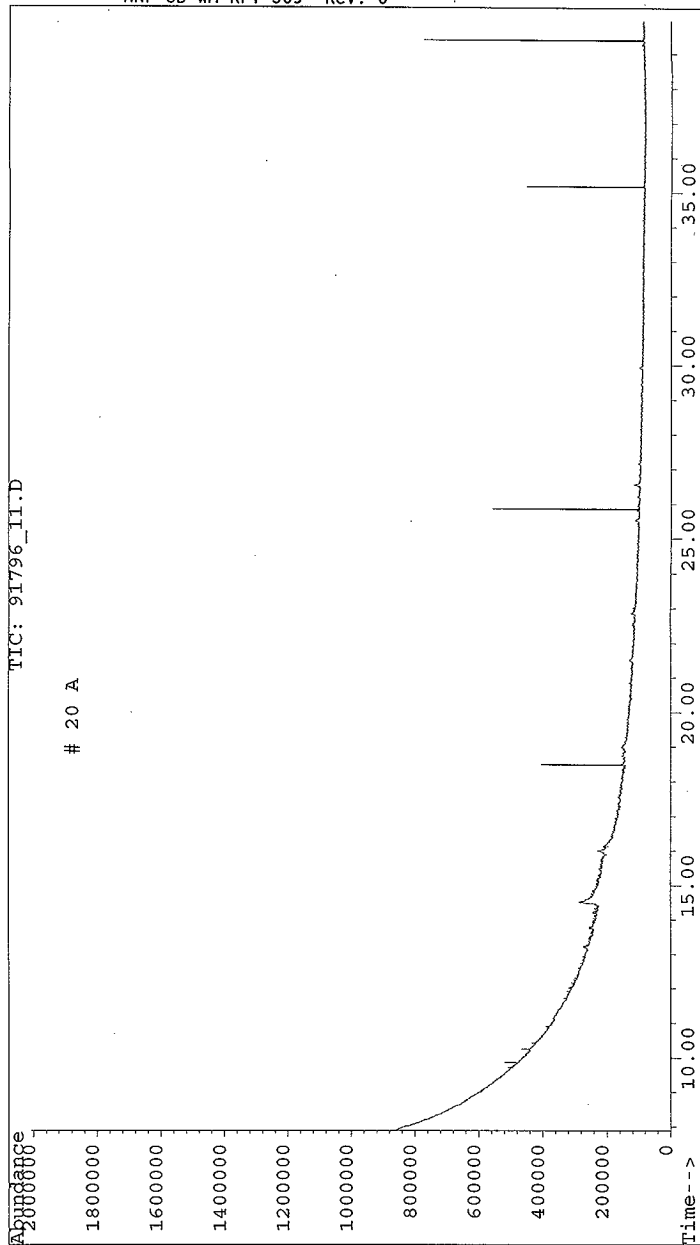


ANALYSIS REPORT FOR CWC AIR SAMPLES

File Name: 91996_7.D
 Analyst: LAP
 Analysis Date: 09/19/96
 Method: CWC
 Sample Name: FT6106-P31.19A

COMPOUND NAME	CAS #	Concentration	Units	Comments
ISO-BUTANE	75-28-5	0	PPB	
VINYL CHLORIDE	75-01-4	0	PPB	
ETHANOL	64-17-5	0	PPB	
ACETONE	67-64-1	0	PPB	
2-PROPANOL	67-63-0	0	PPB	
1,1-DICHLOROETHENE	75-35-4	0	PPB	
FREON 113	76-13-1	0	PPB	
DICHLOROMETHANE	75-09-2	0	PPB	
1,1-DICHLOROETHANE	75-34-3	0	PPB	
2-BUTANONE	78-93-3	0	PPB	
N-HEXANE	110-54-3	0	PPB	
1,2-DICHLOROETHENE	156-59-2	0	PPB	
CHLOROFORM	67-66-3	0	PPB	
TETRAHYDROFURAN	109-99-9	0	PPB	
1,1,1-TRICHLOROETHANE	71-55-6	0	PPB	
1,2-DICHLOROETHANE	107-06-2	0	PPB	
BENZENE	71-43-2	0	PPB	
CARBON TETRACHLORIDE	56-23-5	0	PPB	
CYCLOHEXANE	110-82-7	0	PPB	
N-BUTANOL	71-36-3	0	PPB	
TRICHLOROETHENE	79-01-6	0	PPB	
4-METHYL-2-PENTANONE	108-10-1	0	PPB	
TOLUENE	108-88-3	0	PPB	
1,1,2-TRICHLOROETHANE	79-00-5	0	PPB	
TETRACHLOROETHENE	127-18-4	0	PPB	
CHLOROBENZENE	108-90-7	0	PPB	
ETHYLBENZENE	100-41-4	0	PPB	
M-XYLENE	108-38-3	0	PPB	
STYRENE	100-42-5	0	PPB	
O-XYLENE	95-47-6	0	PPB	
1,1,2,2-TETRACHLOROETHANE	79-34-5	0	PPB	
1,3,5-TRIMETHYLBENZENE	108-67-8	0	PPB	
1,2,4-TRIMETHYLBENZENE	95-63-6	0	PPB	
1,3-DICHLOROBENZENE	541-73-1	0	PPB	
1,2-DICHLOROBENZENE	95-50-1	0	PPB	
1,4-DICHLOROBENZENE	106-46-7	0	PPB	

File : C:\HPCHEM\1\DATA\91796_11.D
Operator : MS
Acquired : 17 Sep 96 5:05 pm using AcqMethod CWC
Instrument : 5972 - In
Sample Name: FT6106-P31.20A
Misc Info : 100 TORR
Vial Number: 1

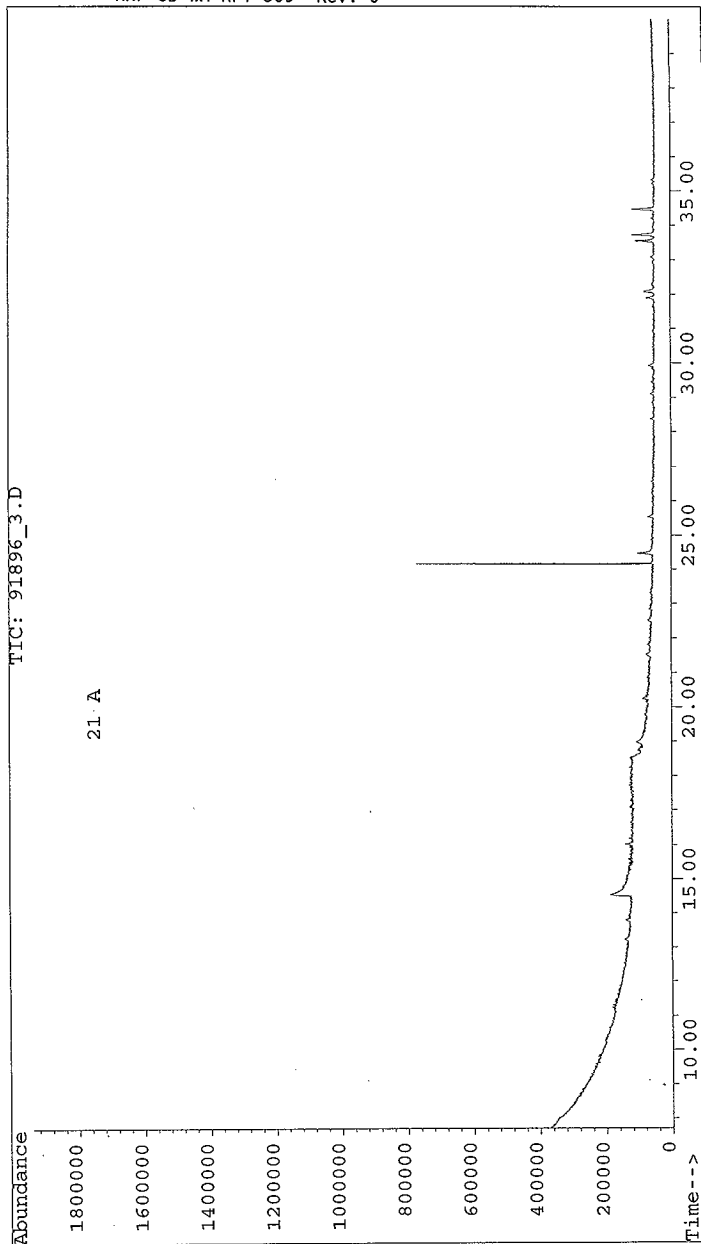


ANALYSIS REPORT FOR CWC AIR SAMPLES

File Name: 91796_11.D
 Analyst: MS
 Analysis Date: 09/17/96
 Method: CWC
 Sample Name: FT6106-P31.20A

COMPOUND NAME	CAS #	Concentration	Units	Comments
ISO-BUTANE	75-28-5	0	PPB	
VINYL CHLORIDE	75-01-4	0	PPB	
ETHANOL	64-17-5	0	PPB	
ACETONE	67-64-1	0	PPB	
2-PROPANOL	67-63-0	0	PPB	
1,1-DICHLOROETHENE	75-35-4	0	PPB	
FREON 113	76-13-1	0	PPB	
DICHLOROMETHANE	75-09-2	0	PPB	
1,1-DICHLOROETHANE	75-34-3	0	PPB	
2-BUTANONE	78-93-3	0	PPB	
N-HEXANE	110-54-3	0	PPB	
1,2-DICHLOROETHENE	156-59-2	0	PPB	
CHLOROFORM	67-66-3	0	PPB	
TETRAHYDROFURAN	109-99-9	0	PPB	
1,1,1-TRICHLOROETHANE	71-55-6	0	PPB	
1,2-DICHLOROETHANE	107-06-2	0	PPB	
BENZENE	71-43-2	0	PPB	
CARBON TETRACHLORIDE	56-23-5	0	PPB	
CYCLOHEXANE	110-82-7	0	PPB	
N-BUTANOL	71-36-3	0	PPB	
TRICHLOROETHENE	79-01-6	0	PPB	
4-METHYL-2-PENTANONE	108-10-1	0	PPB	
TOLUENE	108-88-3	0	PPB	
1,1,2-TRICHLOROETHANE	79-00-5	0	PPB	
TETRACHLOROETHENE	127-18-4	0	PPB	
CHLOROBENZENE	108-90-7	0	PPB	
ETHYLBENZENE	100-41-4	0	PPB	
M-XYLENE	108-38-3	0	PPB	
STYRENE	100-42-5	0	PPB	
O-XYLENE	95-47-6	0	PPB	
1,1,2,2-TETRACHLOROETHANE	79-34-5	0	PPB	
1,3,5-TRIMETHYLBENZENE	108-67-8	0	PPB	
1,2,4-TRIMETHYLBENZENE	95-63-6	0	PPB	
1,3-DICHLOROBENZENE	541-73-1	0	PPB	
1,2-DICHLOROBENZENE	95-50-1	0	PPB	
1,4-DICHLOROBENZENE	106-46-7	0	PPB	

File : C:\HPCHEM\1\DATA\91896_3.D
Operator : MS
Acquired : 18 Sep 96 3:03 pm using AcqMethod CWC
Instrument : 5972 - In
Sample Name: FT6106-P31.21A
Misc Info : 100 TORR
Vial Number: 1

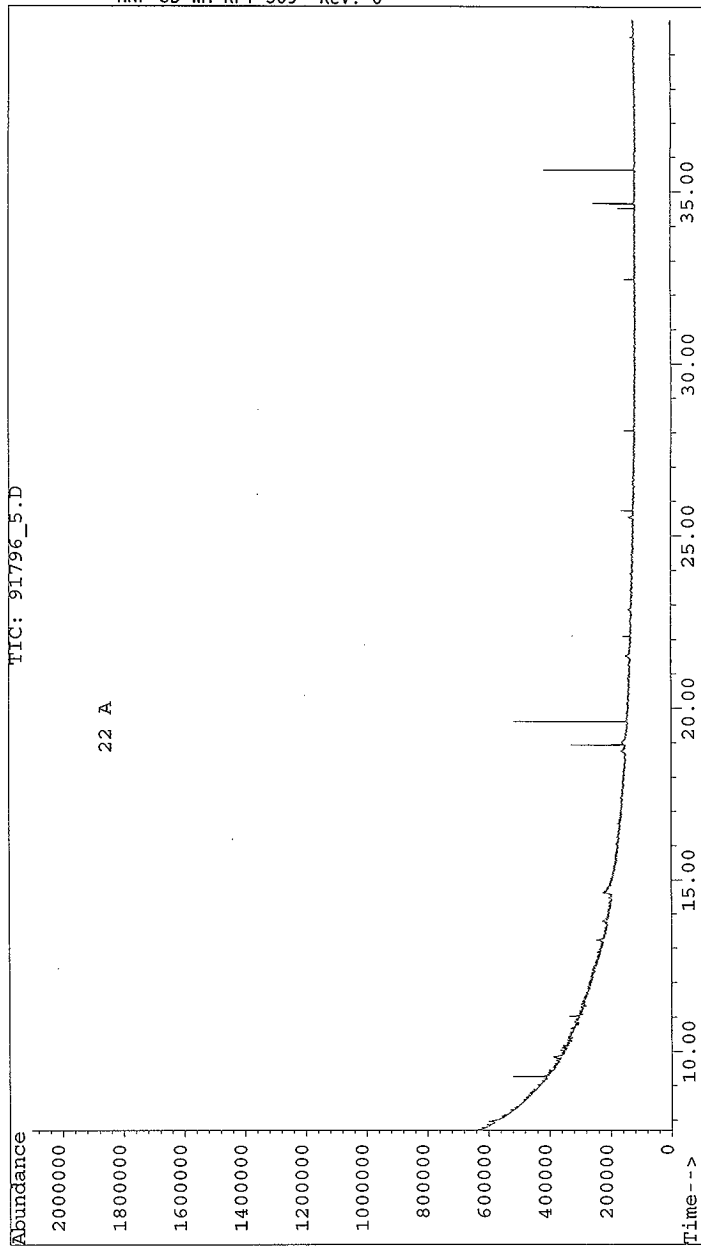


ANALYSIS REPORT FOR CWC AIR SAMPLES

File Name: 91896_3.D
 Analyst: MS
 Analysis Date: 09/18/96
 Method: CWC
 Sample Name: FT6106-P31.21A

COMPOUND NAME	CAS #	Concentration	Units	Comments
ISO-BUTANE	75-28-5	0	PPB	
VINYL CHLORIDE	75-01-4	0	PPB	
ETHANOL	64-17-5	0	PPB	
ACETONE	67-64-1	0	PPB	
2-PROPANOL	67-63-0	0	PPB	
1,1-DICHLOROETHENE	75-35-4	0	PPB	
FREON 113	76-13-1	0	PPB	
DICHLOROMETHANE	75-09-2	0	PPB	
1,1-DICHLOROETHANE	75-34-3	0	PPB	
2-BUTANONE	78-93-3	0	PPB	
N-HEXANE	110-54-3	0	PPB	
1,2-DICHLOROETHENE	156-59-2	0	PPB	
CHLOROFORM	67-66-3	0	PPB	
TETRAHYDROFURAN	109-99-9	0	PPB	
1,1,1-TRICHLOROETHANE	71-55-6	0	PPB	
1,2-DICHLOROETHANE	107-06-2	0	PPB	
BENZENE	71-43-2	0	PPB	
CARBON TETRACHLORIDE	56-23-5	0	PPB	
CYCLOHEXANE	110-82-7	0	PPB	
N-BUTANOL	71-36-3	0	PPB	
TRICHLOROETHENE	79-01-6	0	PPB	
4-METHYL-2-PENTANONE	108-10-1	0	PPB	
TOLUENE	108-88-3	0	PPB	
1,1,2-TRICHLOROETHANE	79-00-5	0	PPB	
TETRACHLOROETHENE	127-18-4	0	PPB	
CHLOROBENZENE	108-90-7	0	PPB	
ETHYLBENZENE	100-41-4	0	PPB	
M-XYLENE	108-38-3	0	PPB	
STYRENE	100-42-5	0	PPB	
O-XYLENE	95-47-6	0	PPB	
1,1,2,2-TETRACHLOROETHANE	79-34-5	0	PPB	
1,3,5-TRIMETHYLBENZENE	108-67-8	0	PPB	
1,2,4-TRIMETHYLBENZENE	95-63-6	0	PPB	
1,3-DICHLOROBENZENE	541-73-1	0	PPB	
1,2-DICHLOROBENZENE	95-50-1	0	PPB	
1,4-DICHLOROBENZENE	106-46-7	0	PPB	

File : C:\HPCHEM\1\DATA\91796_5.D
Operator : LAP
Acquired : 17 Sep 96 9:16 am using AcqMethod CWC
Instrument : 5972 - In
Sample Name: FT6106-P31.22A
Misc Info : 100 TORR
Vial Number: 1

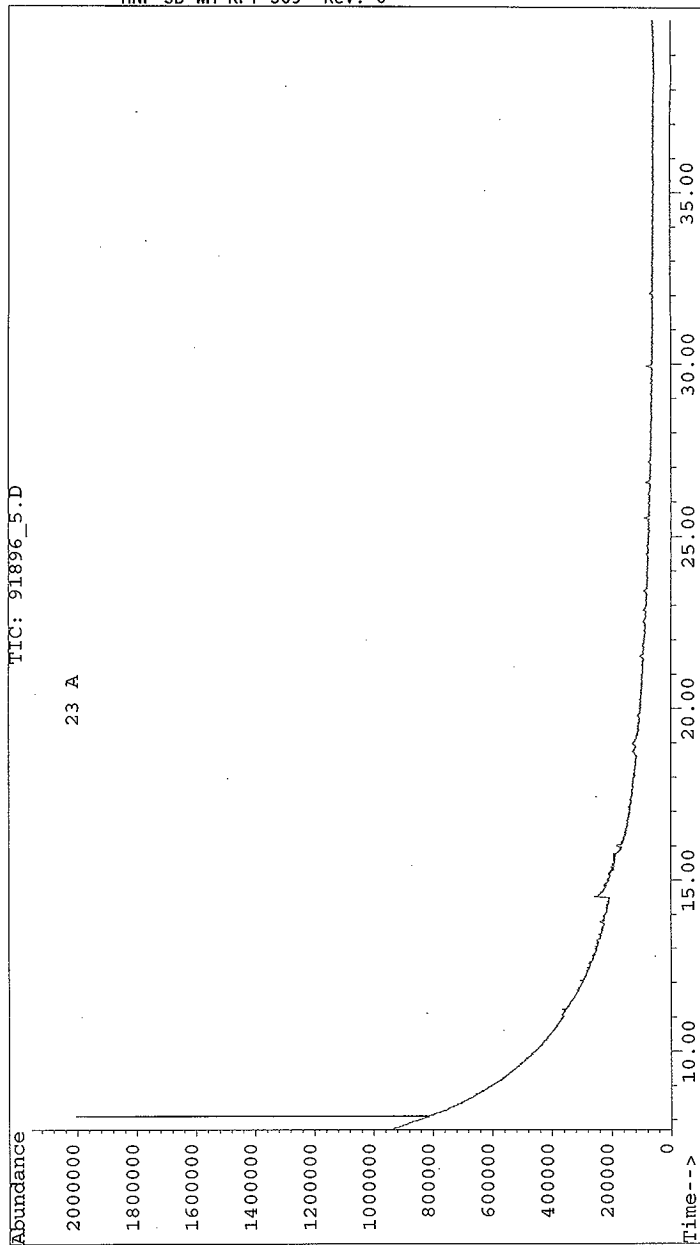


ANALYSIS REPORT FOR CWC AIR SAMPLES

File Name: 91796_5.D
 Analyst: LAP
 Analysis Date: 09/17/96
 Method: CWC
 Sample Name: FT6106-P31.22A

COMPOUND NAME	CAS #	Concentration	Units	Comments
ISO-BUTANE	75-28-5	0	PPB	
VINYL CHLORIDE	75-01-4	0	PPB	
ETHANOL	64-17-5	0	PPB	
ACETONE	67-64-1	0	PPB	
2-PROPANOL	67-63-0	0	PPB	
1,1-DICHLOROETHENE	75-35-4	0	PPB	
FREON 113	76-13-1	0	PPB	
DICHLOROMETHANE	75-09-2	0	PPB	
1,1-DICHLOROETHANE	75-34-3	0	PPB	
2-BUTANONE	78-93-3	0	PPB	
N-HEXANE	110-54-3	0	PPB	
1,2-DICHLOROETHENE	156-59-2	0	PPB	
CHLOROFORM	67-66-3	0	PPB	
TETRAHYDROFURAN	109-99-9	0	PPB	
1,1,1-TRICHLOROETHANE	71-55-6	0	PPB	
1,2-DICHLOROETHANE	107-06-2	0	PPB	
BENZENE	71-43-2	0	PPB	
CARBON TETRACHLORIDE	56-23-5	0	PPB	
CYCLOHEXANE	110-82-7	0	PPB	
N-BUTANOL	71-36-3	0	PPB	
TRICHLOROETHENE	79-01-6	0	PPB	
4-METHYL-2-PENTANONE	108-10-1	0	PPB	
TOLUENE	108-88-3	0	PPB	
1,1,2-TRICHLOROETHANE	79-00-5	0	PPB	
TETRACHLOROETHENE	127-18-4	0	PPB	
CHLOROBENZENE	108-90-7	0	PPB	
ETHYLBENZENE	100-41-4	0	PPB	
M-XYLENE	108-38-3	0	PPB	
STYRENE	100-42-5	0	PPB	
O-XYLENE	95-47-6	0	PPB	
1,1,2,2-TETRACHLOROETHANE	79-34-5	0	PPB	
1,3,5-TRIMETHYLBENZENE	108-67-8	0	PPB	
1,2,4-TRIMETHYLBENZENE	95-63-6	0	PPB	
1,3-DICHLOROBENZENE	541-73-1	0	PPB	
1,2-DICHLOROBENZENE	95-50-1	0	PPB	
1,4-DICHLOROBENZENE	106-46-7	0	PPB	

File : C:\HPCHEM\1\DATA\91896_5.D
Operator : MS
Acquired : 18 Sep 96 5:27 pm using AcqMethod CWC
Instrument : 5972 - In
Sample Name: FT6106-P31.23A
Misc Info : 100 TORR
Vial Number: 1

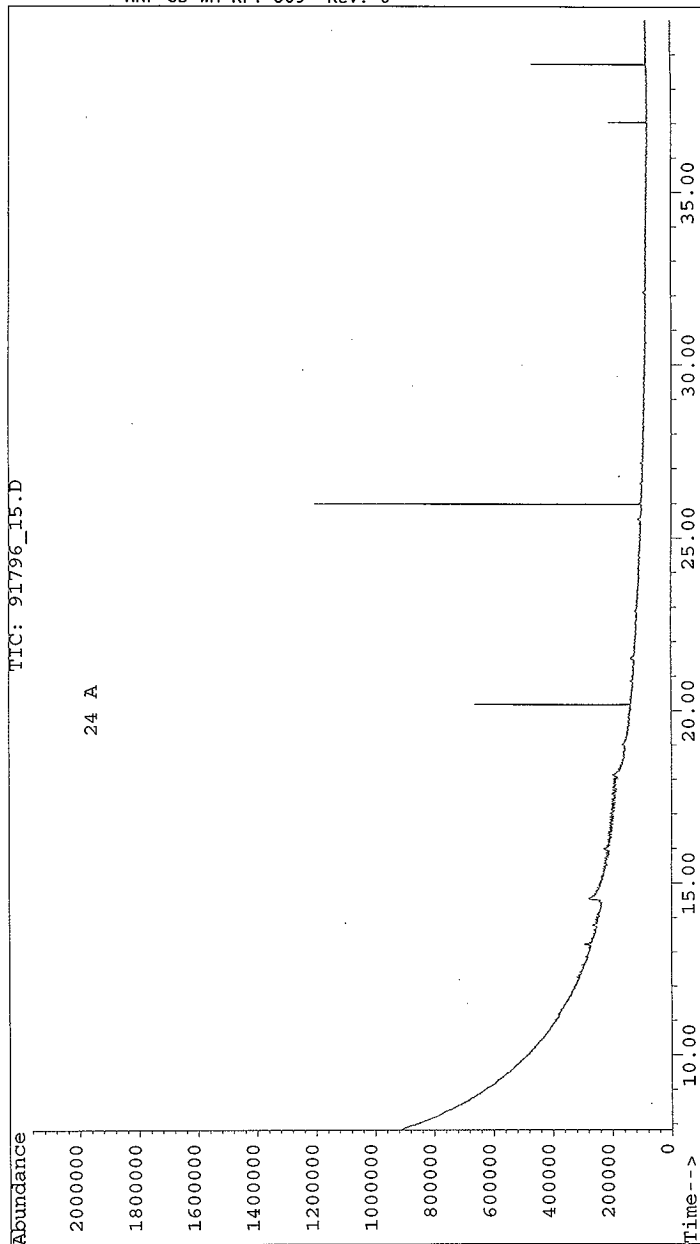


ANALYSIS REPORT FOR CWC AIR SAMPLES

File Name: 91896_5.D
 Analyst: MS
 Analysis Date: 09/18/96
 Method: CWC
 Sample Name: FT6106-P31.23A

COMPOUND NAME	CAS #	Concentration	Units	Comments
ISO-BUTANE	75-28-5	0	PPB	
VINYL CHLORIDE	75-01-4	0	PPB	
ETHANOL	64-17-5	0	PPB	
ACETONE	67-64-1	0	PPB	
2-PROPANOL	67-63-0	0	PPB	
1,1-DICHLOROETHENE	75-35-4	0	PPB	
FREON 113	76-13-1	0	PPB	
DICHLOROMETHANE	75-09-2	0	PPB	
1,1-DICHLOROETHANE	75-34-3	0	PPB	
2-BUTANONE	78-93-3	0	PPB	
N-HEXANE	110-54-3	0	PPB	
1,2-DICHLOROETHENE	156-59-2	0	PPB	
CHLOROFORM	67-66-3	0	PPB	
TETRAHYDROFURAN	109-99-9	0	PPB	
1,1,1-TRICHLOROETHANE	71-55-6	0	PPB	
1,2-DICHLOROETHANE	107-06-2	0	PPB	
BENZENE	71-43-2	0	PPB	
CARBON TETRACHLORIDE	56-23-5	0	PPB	
CYCLOHEXANE	110-82-7	0	PPB	
N-BUTANOL	71-36-3	0	PPB	
TRICHLOROETHENE	79-01-6	0	PPB	
4-METHYL-2-PENTANONE	108-10-1	0	PPB	
TOLUENE	108-88-3	0	PPB	
1,1,2-TRICHLOROETHANE	79-00-5	0	PPB	
TETRACHLOROETHENE	127-18-4	0	PPB	
CHLOROBENZENE	108-90-7	0	PPB	
ETHYLBENZENE	100-41-4	0	PPB	
M-XYLENE	108-38-3	0	PPB	
STYRENE	100-42-5	0	PPB	
O-XYLENE	95-47-6	0	PPB	
1,1,2,2-TETRACHLOROETHANE	79-34-5	0	PPB	
1,3,5-TRIMETHYLBENZENE	108-67-8	0	PPB	
1,2,4-TRIMETHYLBENZENE	95-63-6	0	PPB	
1,3-DICHLOROBENZENE	541-73-1	0	PPB	
1,2-DICHLOROBENZENE	95-50-1	0	PPB	
1,4-DICHLOROBENZENE	106-46-7	0	PPB	

File : C:\HPCHEM\1\DATA\91796_15.D
Operator : MS
Acquired : 17 Sep 96 9:43 pm using AcqMethod CWC
Instrument : 5972 - In
Sample Name: FT6106-P31.24A
Misc Info : 100 TORR
Vial Number: 1

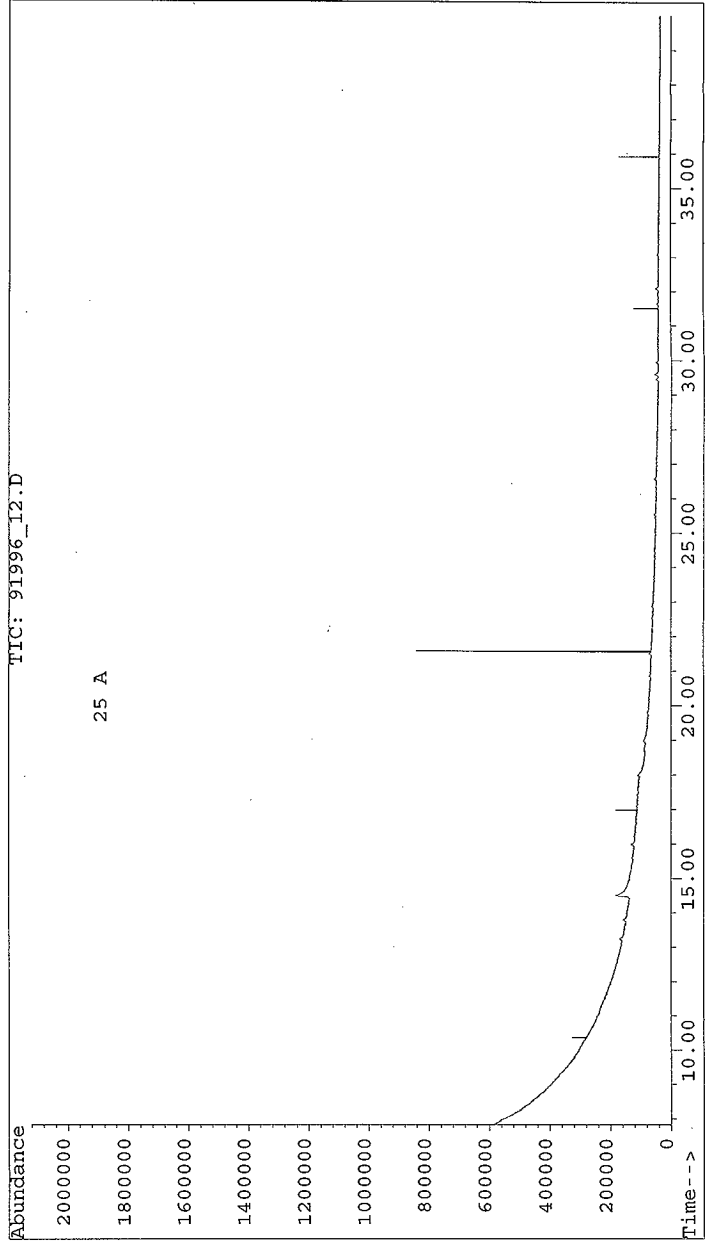


ANALYSIS REPORT FOR CWC AIR SAMPLES

File Name: 91796_15.D
 Analyst: MS
 Analysis Date: 09/17/96
 Method: CWC
 Sample Name: FT6106-P31.24A

COMPOUND NAME	CAS #	Concentration	Units	Comments
ISO-BUTANE	75-28-5	0	PPB	
VINYL CHLORIDE	75-01-4	0	PPB	
ETHANOL	64-17-5	0	PPB	
ACETONE	67-64-1	0	PPB	
2-PROPANOL	67-63-0	0	PPB	
1,1-DICHLOROETHENE	75-35-4	0	PPB	
FREON 113	76-13-1	0	PPB	
DICHLOROMETHANE	75-09-2	0	PPB	
1,1-DICHLOROETHANE	75-34-3	0	PPB	
2-BUTANONE	78-93-3	0	PPB	
N-HEXANE	110-54-3	0	PPB	
1,2-DICHLOROETHENE	156-59-2	0	PPB	
CHLOROFORM	67-66-3	0	PPB	
TETRAHYDROFURAN	109-99-9	0	PPB	
1,1,1-TRICHLOROETHANE	71-55-6	0	PPB	
1,2-DICHLOROETHANE	107-06-2	0	PPB	
BENZENE	71-43-2	0	PPB	
CARBON TETRACHLORIDE	56-23-5	0	PPB	
CYCLOHEXANE	110-82-7	0	PPB	
N-BUTANOL	71-36-3	0	PPB	
TRICHLOROETHENE	79-01-6	0	PPB	
4-METHYL-2-PENTANONE	108-10-1	0	PPB	
TOLUENE	108-88-3	0	PPB	
1,1,2-TRICHLOROETHANE	79-00-5	0	PPB	
TETRACHLOROETHENE	127-18-4	0	PPB	
CHLOROBENZENE	108-90-7	0	PPB	
ETHYLBENZENE	100-41-4	0	PPB	
M-XYLENE	108-38-3	0	PPB	
STYRENE	100-42-5	0	PPB	
O-XYLENE	95-47-6	0	PPB	
1,1,2,2-TETRACHLOROETHANE	79-34-5	0	PPB	
1,3,5-TRIMETHYLBENZENE	108-67-8	0	PPB	
1,2,4-TRIMETHYLBENZENE	95-63-6	0	PPB	
1,3-DICHLOROBENZENE	541-73-1	0	PPB	
1,2-DICHLOROBENZENE	95-50-1	0	PPB	
1,4-DICHLOROBENZENE	106-46-7	0	PPB	

File : C:\HPCHEM\1\DATA\91996_12.D
Operator : MS
Acquired : 19 Sep 96 6:25 pm using AcqMethod CWC
Instrument : 5972 - In
Sample Name: FT6106-P31.25A
Misc Info : 100 TORR
Vial Number: 1

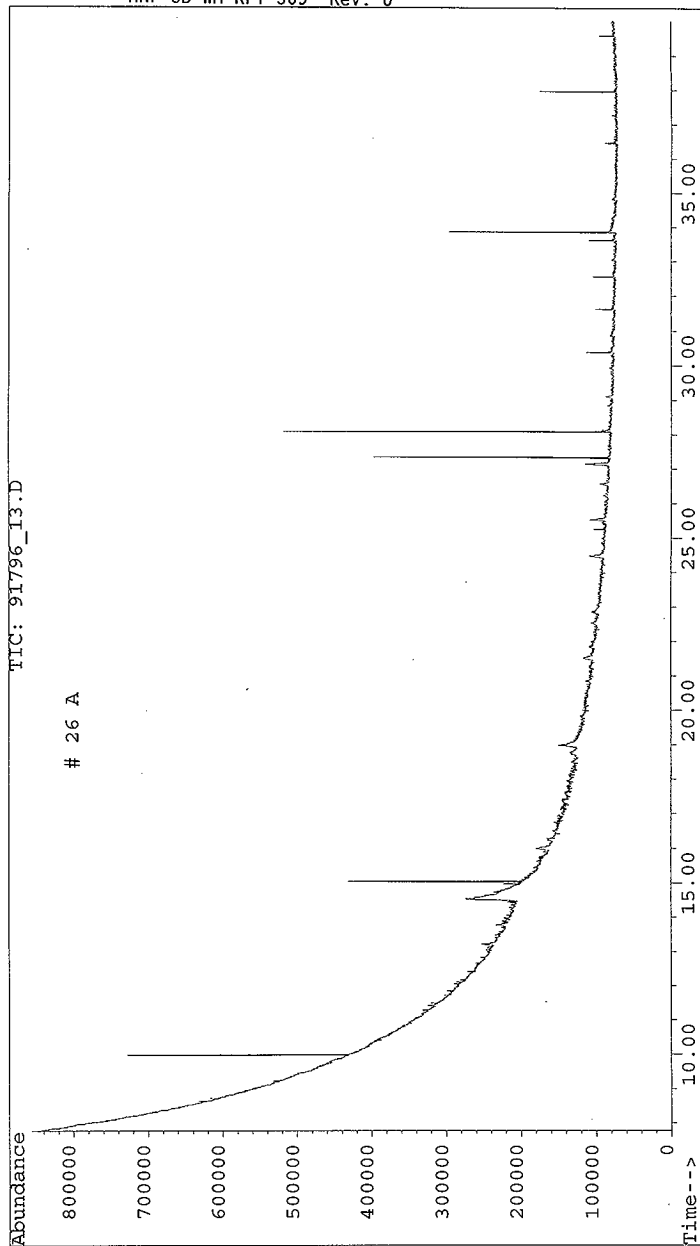


ANALYSIS REPORT FOR CWC AIR SAMPLES

File Name: 91996_12.D
 Analyst: MS
 Analysis Date: 09/19/96
 Method: CWC
 Sample Name: FT6106-P31.25A

COMPOUND NAME	CAS #	Concentration	Units	Comments
ISO-BUTANE	75-28-5	0	PPB	
VINYL CHLORIDE	75-01-4	0	PPB	
ETHANOL	64-17-5	0	PPB	
ACETONE	67-64-1	0	PPB	
2-PROPANOL	67-63-0	0	PPB	
1,1-DICHLOROETHENE	75-35-4	0	PPB	
FREON 113	76-13-1	0	PPB	
DICHLOROMETHANE	75-09-2	0	PPB	
1,1-DICHLOROETHANE	75-34-3	0	PPB	
2-BUTANONE	78-93-3	0	PPB	
N-HEXANE	110-54-3	0	PPB	
1,2-DICHLOROETHENE	156-59-2	0	PPB	
CHLOROFORM	67-66-3	0	PPB	
TETRAHYDROFURAN	109-99-9	0	PPB	
1,1,1-TRICHLOROETHANE	71-55-6	0	PPB	
1,2-DICHLOROETHANE	107-06-2	0	PPB	
BENZENE	71-43-2	0	PPB	
CARBON TETRACHLORIDE	56-23-5	0	PPB	
CYCLOHEXANE	110-82-7	0	PPB	
N-BUTANOL	71-36-3	0	PPB	
TRICHLOROETHENE	79-01-6	0	PPB	
4-METHYL-2-PENTANONE	108-10-1	0	PPB	
TOLUENE	108-88-3	0	PPB	
1,1,2-TRICHLOROETHANE	79-00-5	0	PPB	
TETRACHLOROETHENE	127-18-4	0	PPB	
CHLOROBENZENE	108-90-7	0	PPB	
ETHYLBENZENE	100-41-4	0	PPB	
M-XYLENE	108-38-3	0	PPB	
STYRENE	100-42-5	0	PPB	
O-XYLENE	95-47-6	0	PPB	
1,1,2,2-TETRACHLOROETHANE	79-34-5	0	PPB	
1,3,5-TRIMETHYLBENZENE	108-67-8	0	PPB	
1,2,4-TRIMETHYLBENZENE	95-63-6	0	PPB	
1,3-DICHLOROBENZENE	541-73-1	0	PPB	
1,2-DICHLOROBENZENE	95-50-1	0	PPB	
1,4-DICHLOROBENZENE	106-46-7	0	PPB	

File : C:\HPCHEM\1\DATA\91796_13.D
Operator : MS
Acquired : 17 Sep 96 7:48 pm using AcqMethod CWC
Instrument : 5972 - In
Sample Name: FT6106-P31.26A
Misc Info : 100 TORR
Vial Number: 1

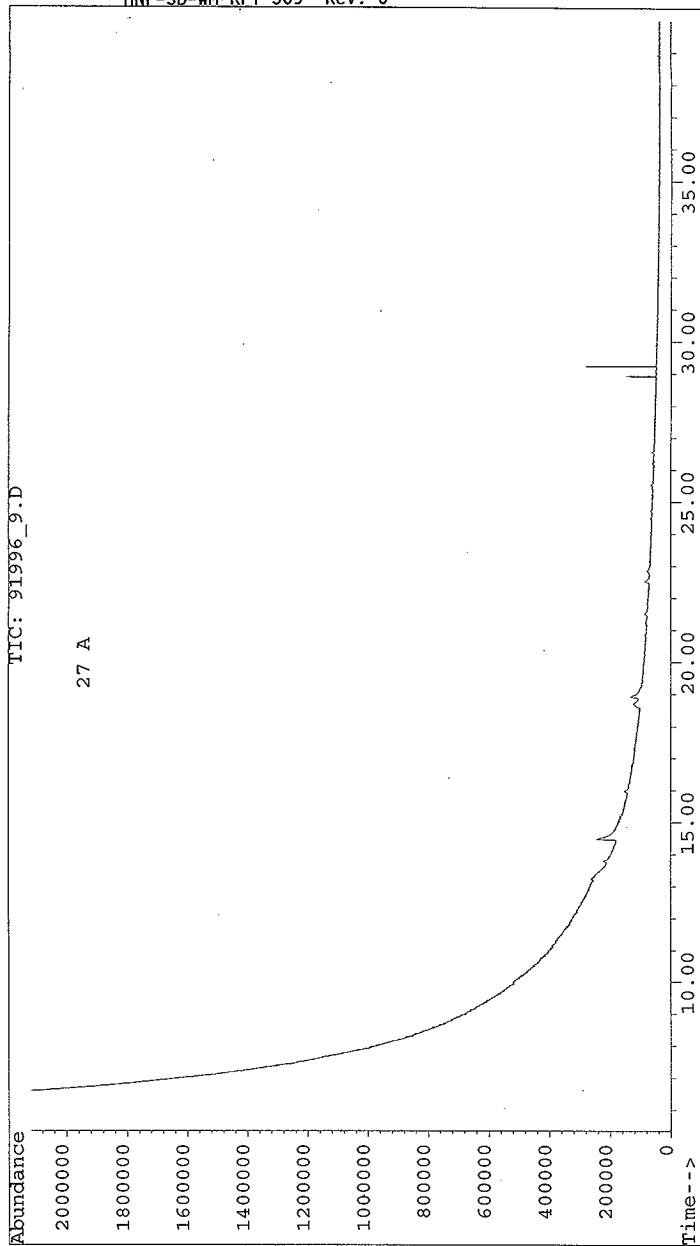


ANALYSIS REPORT FOR CWC AIR SAMPLES

File Name: 91796_13.D
 Analyst: MS
 Analysis Date: 09/17/96
 Method: CWC
 Sample Name: FT6106-P31.26A

COMPOUND NAME	CAS #	Concentration	Units	Comments
ISO-BUTANE	75-28-5	0	PPB	
VINYL CHLORIDE	75-01-4	0	PPB	
ETHANOL	64-17-5	0	PPB	
ACETONE	67-64-1	1	PPB	
2-PROPANOL	67-63-0	0	PPB	
1,1-DICHLOROETHENE	75-35-4	0	PPB	
FREON 113	76-13-1	0	PPB	
DICHLOROMETHANE	75-09-2	0	PPB	
1,1-DICHLOROETHANE	75-34-3	0	PPB	
2-BUTANONE	78-93-3	0	PPB	
N-HEXANE	110-54-3	0	PPB	
1,2-DICHLOROETHENE	156-59-2	0	PPB	
CHLOROFORM	67-66-3	0	PPB	
TETRAHYDROFURAN	109-99-9	0	PPB	
1,1,1-TRICHLOROETHANE	71-55-6	0	PPB	
1,2-DICHLOROETHANE	107-06-2	0	PPB	
BENZENE	71-43-2	0	PPB	
CARBON TETRACHLORIDE	56-23-5	0	PPB	
CYCLOHEXANE	110-82-7	0	PPB	
N-BUTANOL	71-36-3	0	PPB	
TRICHLOROETHENE	79-01-6	0	PPB	
4-METHYL-2-PENTANONE	108-10-1	0	PPB	
TOLUENE	108-88-3	0	PPB	
1,1,2-TRICHLOROETHANE	79-00-5	0	PPB	
TETRACHLOROETHENE	127-18-4	0	PPB	
CHLOROBENZENE	108-90-7	0	PPB	
ETHYLBENZENE	100-41-4	0	PPB	
M-XYLENE	108-38-3	0	PPB	
STYRENE	100-42-5	0	PPB	
O-XYLENE	95-47-6	0	PPB	
1,1,2,2-TETRACHLOROETHANE	79-34-5	0	PPB	
1,3,5-TRIMETHYLBENZENE	108-67-8	0	PPB	
1,2,4-TRIMETHYLBENZENE	95-63-6	0	PPB	
1,3-DICHLOROBENZENE	541-73-1	0	PPB	
1,2-DICHLOROBENZENE	95-50-1	0	PPB	
1,4-DICHLOROBENZENE	106-46-7	0	PPB	

File : C:\HPCHEM\1\DATA\91996_9.D
Operator : MS
Acquired : 19 Sep 96 2:57 pm using AcqMethod CWC
Instrument : 5972 - In
Sample Name: FT6106-P31.27A
Misc Info : 100 TORR
Vial Number: 1

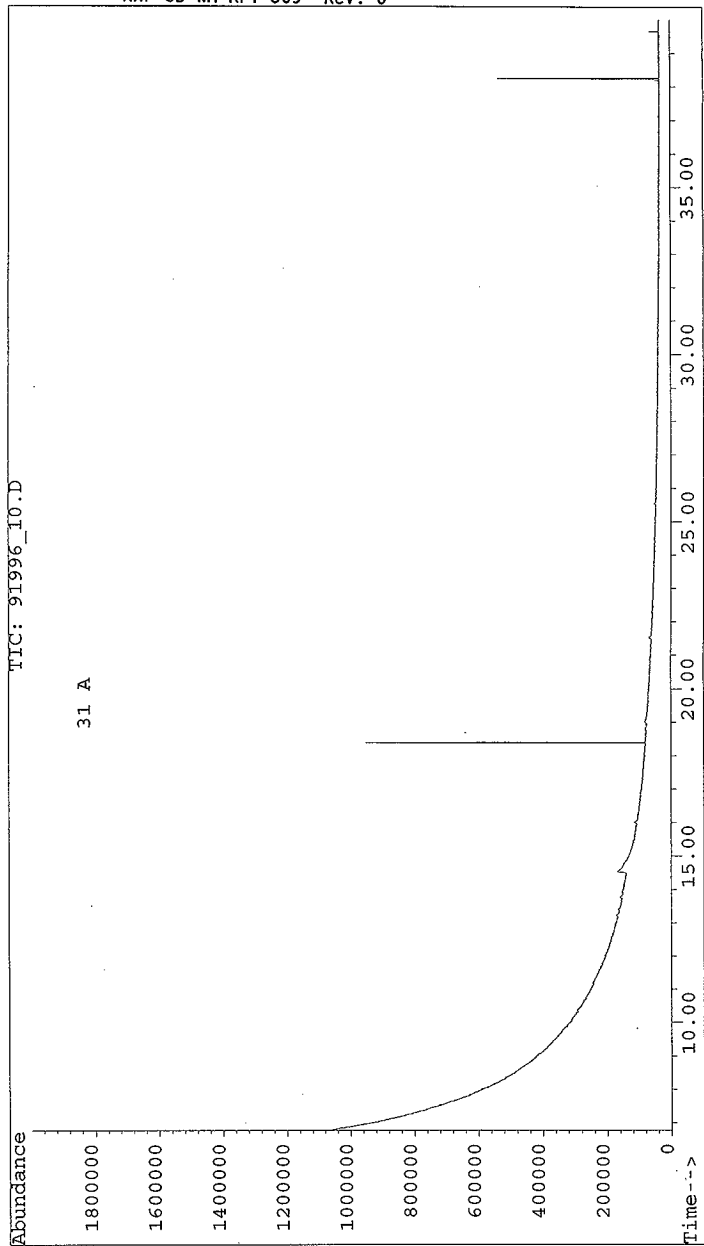


ANALYSIS REPORT FOR CWC AIR SAMPLES

File Name: 91996_9.D
 Analyst: MS
 Analysis Date: 09/19/96
 Method: CWC
 Sample Name: FT6106-P31.27A

COMPOUND NAME	CAS #	Concentration	Units	Comments
ISO-BUTANE	75-28-5	0	PPB	
VINYL CHLORIDE	75-01-4	0	PPB	
ETHANOL	64-17-5	0	PPB	
ACETONE	67-64-1	0	PPB	
2-PROPANOL	67-63-0	0	PPB	
1,1-DICHLOROETHENE	75-35-4	0	PPB	
FREON 113	76-13-1	0	PPB	
DICHLOROMETHANE	75-09-2	0	PPB	
1,1-DICHLOROETHANE	75-34-3	0	PPB	
2-BUTANONE	78-93-3	1	PPB	
N-HEXANE	110-54-3	0	PPB	
1,2-DICHLOROETHENE	156-59-2	0	PPB	
CHLOROFORM	67-66-3	0	PPB	
TETRAHYDROFURAN	109-99-9	0	PPB	
1,1,1-TRICHLOROETHANE	71-55-6	0	PPB	
1,2-DICHLOROETHANE	107-06-2	0	PPB	
BENZENE	71-43-2	0	PPB	
CARBON TETRACHLORIDE	56-23-5	0	PPB	
CYCLOHEXANE	110-82-7	0	PPB	
N-BUTANOL	71-36-3	0	PPB	
TRICHLOROETHENE	79-01-6	0	PPB	
4-METHYL-2-PENTANONE	108-10-1	0	PPB	
TOLUENE	108-88-3	0	PPB	
1,1,2-TRICHLOROETHANE	79-00-5	0	PPB	
TETRACHLOROETHENE	127-18-4	0	PPB	
CHLOROBENZENE	108-90-7	0	PPB	
ETHYLBENZENE	100-41-4	0	PPB	
M-XYLENE	108-38-3	0	PPB	
STYRENE	100-42-5	0	PPB	
O-XYLENE	95-47-6	0	PPB	
1,1,2,2-TETRACHLOROETHANE	79-34-5	0	PPB	
1,3,5-TRIMETHYLBENZENE	108-67-8	0	PPB	
1,2,4-TRIMETHYLBENZENE	95-63-6	0	PPB	
1,3-DICHLOROBENZENE	541-73-1	0	PPB	
1,2-DICHLOROBENZENE	95-50-1	0	PPB	
1,4-DICHLOROBENZENE	106-46-7	0	PPB	

File : C:\HPCHEM\1\DATA\91996_10.D
Operator : MS
Acquired : 19 Sep 96 4:26 pm using AcqMethod CWC
Instrument : 5972 - In
Sample Name: FT6106-P31.31A
Misc Info : 100 TORR
Vial Number: 1



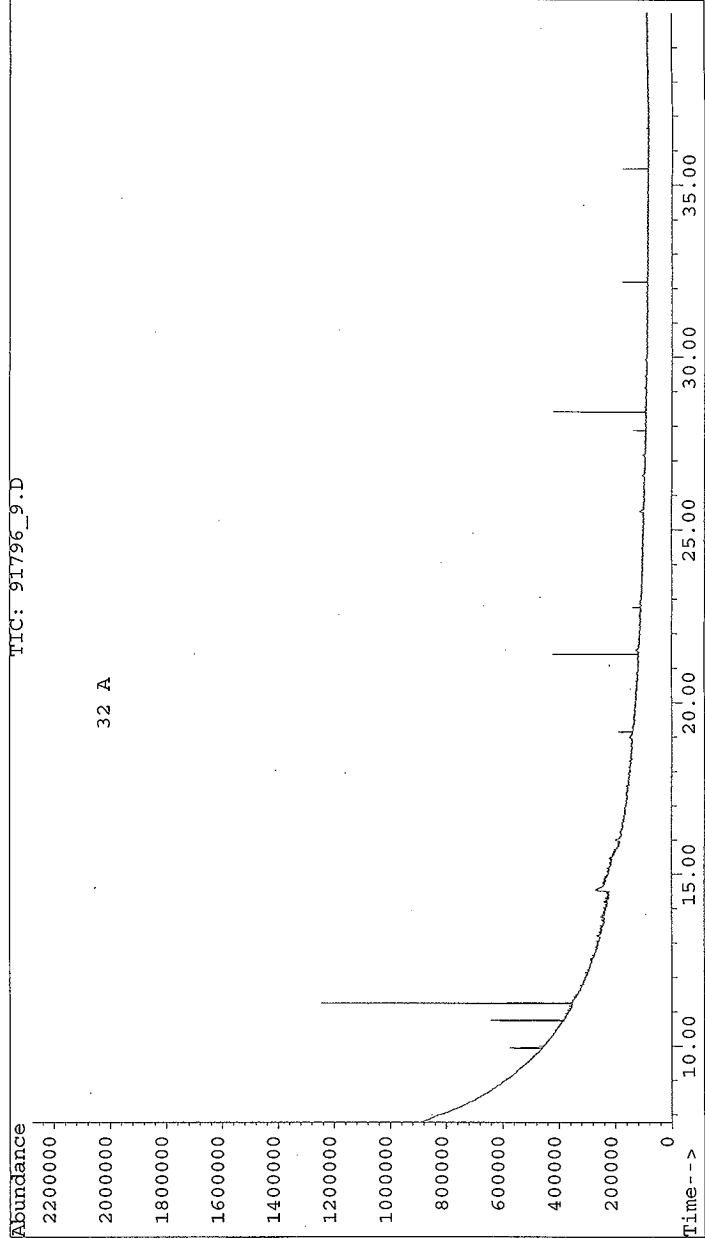
ANALYSIS REPORT FOR CWC AIR SAMPLES

File Name: 91996_10.D
 Analyst: MS
 Analysis Date: 09/19/96
 Method: CWC
 Sample Name: FT6106-P31.31A

COMPOUND NAME	CAS #	Concentration	Units	Comments
ISO-BUTANE	75-28-5	0	PPB	
VINYL CHLORIDE	75-01-4	0	PPB	
ETHANOL	64-17-5	0	PPB	
ACETONE	67-64-1	0	PPB	
2-PROPANOL	67-63-0	0	PPB	
1,1-DICHLOROETHENE	75-35-4	0	PPB	
FREON 113	76-13-1	0	PPB	
DICHLOROMETHANE	75-09-2	0	PPB	
1,1-DICHLOROETHANE	75-34-3	0	PPB	
2-BUTANONE	78-93-3	0	PPB	
N-HEXANE	110-54-3	0	PPB	
1,2-DICHLOROETHENE	156-59-2	0	PPB	
CHLOROFORM	67-66-3	0	PPB	
TETRAHYDROFURAN	109-99-9	0	PPB	
1,1,1-TRICHLOROETHANE	71-55-6	0	PPB	
1,2-DICHLOROETHANE	107-06-2	0	PPB	
BENZENE	71-43-2	0	PPB	
CARBON TETRACHLORIDE	56-23-5	0	PPB	
CYCLOHEXANE	110-82-7	0	PPB	
N-BUTANOL	71-36-3	0	PPB	
TRICHLOROETHENE	79-01-6	0	PPB	
4-METHYL-2-PENTANONE	108-10-1	0	PPB	
TOLUENE	108-88-3	0	PPB	
1,1,2-TRICHLOROETHANE	79-00-5	0	PPB	
TETRACHLOROETHENE	127-18-4	0	PPB	
CHLOROBENZENE	108-90-7	0	PPB	
ETHYLBENZENE	100-41-4	0	PPB	
M-XYLENE	108-38-3	0	PPB	
STYRENE	100-42-5	0	PPB	
O-XYLENE	95-47-6	0	PPB	
1,1,2,2-TETRACHLOROETHANE	79-34-5	0	PPB	
1,3,5-TRIMETHYLBENZENE	108-67-8	0	PPB	
1,2,4-TRIMETHYLBENZENE	95-63-6	0	PPB	
1,3-DICHLOROBENZENE	541-73-1	0	PPB	
1,2-DICHLOROBENZENE	95-50-1	0	PPB	
1,4-DICHLOROBENZENE	106-46-7	0	PPB	

File : C:\HPCHEM\1\DATA\91796_9.D
Operator : MS
Acquired : 17 Sep 96 2:35 pm using AcqMethod CWC
Instrument : 5972 - In
Sample Name: FT6106-P31.32A
Misc Info : 100 TORR
Vial Number: 1

TIC: 91796_9.D

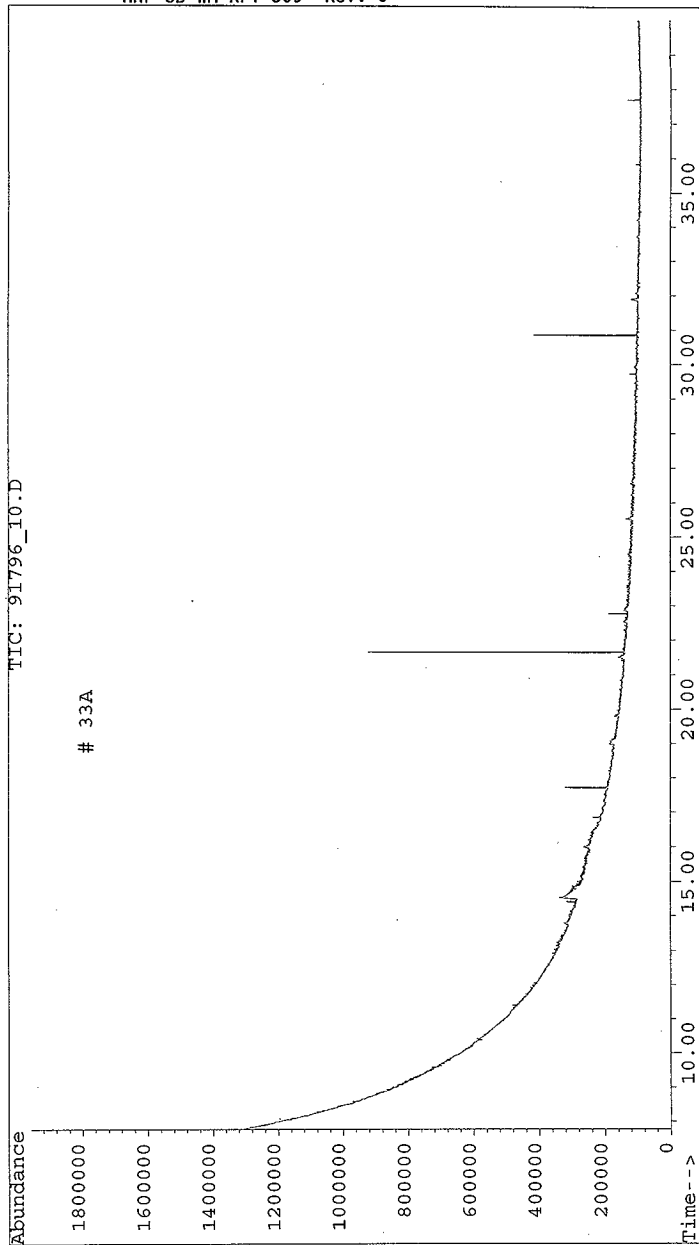


ANALYSIS REPORT FOR CWC AIR SAMPLES

File Name: 91796_9.D
 Analyst: MS
 Analysis Date: 09/17/96
 Method: CWC
 Sample Name: FT6106-P31.32A

COMPOUND NAME	CAS #	Concentration	Units	Comments
ISO-BUTANE	75-28-5	0	PPB	
VINYL CHLORIDE	75-01-4	0	PPB	
ETHANOL	64-17-5	0	PPB	
ACETONE	67-64-1	0	PPB	
2-PROPANOL	67-63-0	0	PPB	
1,1-DICHLOROETHENE	75-35-4	0	PPB	
FREON 113	76-13-1	0	PPB	
DICHLOROMETHANE	75-09-2	0	PPB	
1,1-DICHLOROETHANE	75-34-3	0	PPB	
2-BUTANONE	78-93-3	0	PPB	
N-HEXANE	110-54-3	0	PPB	
1,2-DICHLOROETHENE	156-59-2	0	PPB	
CHLOROFORM	67-66-3	0	PPB	
TETRAHYDROFURAN	109-99-9	0	PPB	
1,1,1-TRICHLOROETHANE	71-55-6	0	PPB	
1,2-DICHLOROETHANE	107-06-2	0	PPB	
BENZENE	71-43-2	0	PPB	
CARBON TETRACHLORIDE	56-23-5	0	PPB	
CYCLOHEXANE	110-82-7	0	PPB	
N-BUTANOL	71-36-3	0	PPB	
TRICHLOROETHENE	79-01-6	0	PPB	
4-METHYL-2-PENTANONE	108-10-1	0	PPB	
TOLUENE	108-88-3	0	PPB	
1,1,2-TRICHLOROETHANE	79-00-5	0	PPB	
TETRACHLOROETHENE	127-18-4	0	PPB	
CHLOROBENZENE	108-90-7	0	PPB	
ETHYLBENZENE	100-41-4	0	PPB	
M-XYLENE	108-38-3	0	PPB	
STYRENE	100-42-5	0	PPB	
O-XYLENE	95-47-6	0	PPB	
1,1,2,2-TETRACHLOROETHANE	79-34-5	0	PPB	
1,3,5-TRIMETHYLBENZENE	108-67-8	0	PPB	
1,2,4-TRIMETHYLBENZENE	95-63-6	0	PPB	
1,3-DICHLOROBENZENE	541-73-1	0	PPB	
1,2-DICHLOROBENZENE	95-50-1	0	PPB	
1,4-DICHLOROBENZENE	106-46-7	0	PPB	

File : C:\HPCHEM\1\DATA\91796_10.D
Operator : MS
Acquired : 17 Sep 96 3:51 pm using AcqMethod CWC
Instrument : 5972 - In
Sample Name: FT6106-P31.33A
Misc Info : 100 TORR
Vial Number: 1

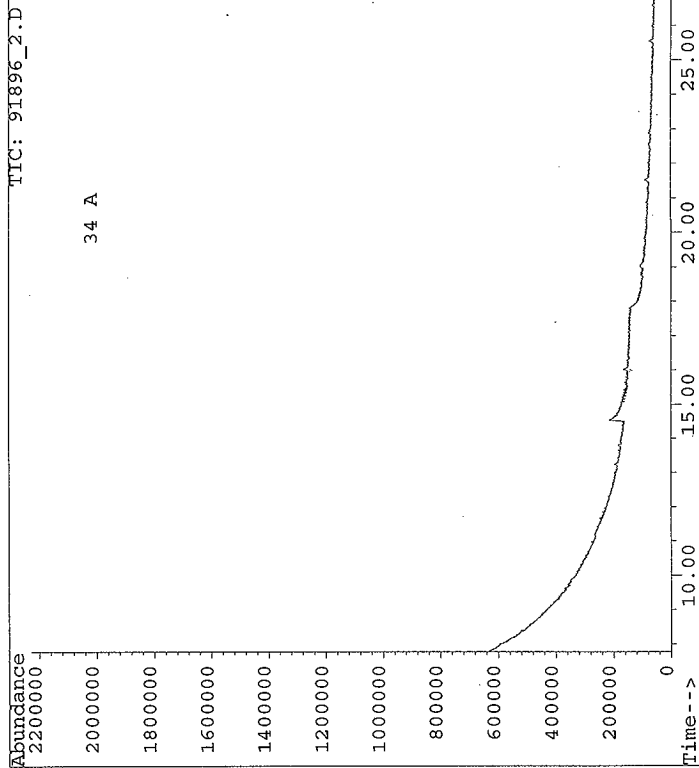


ANALYSIS REPORT FOR CWC AIR SAMPLES

File Name: 91796_10.D
 Analyst: MS
 Analysis Date: 09/17/96
 Method: CWC
 Sample Name: FT6106-P31.33A

COMPOUND NAME	CAS #	Concentration	Units	Comments
ISO-BUTANE	75-28-5	0	PPB	
VINYL CHLORIDE	75-01-4	0	PPB	
ETHANOL	64-17-5	0	PPB	
ACETONE	67-64-1	0	PPB	
2-PROPANOL	67-63-0	0	PPB	
1,1-DICHLOROETHENE	75-35-4	0	PPB	
FREON 113	76-13-1	0	PPB	
DICHLOROMETHANE	75-09-2	0	PPB	
1,1-DICHLOROETHANE	75-34-3	0	PPB	
2-BUTANONE	78-93-3	0	PPB	
N-HEXANE	110-54-3	0	PPB	
1,2-DICHLOROETHENE	156-59-2	0	PPB	
CHLOROFORM	67-66-3	0	PPB	
TETRAHYDROFURAN	109-99-9	0	PPB	
1,1,1-TRICHLOROETHANE	71-55-6	0	PPB	
1,2-DICHLOROETHANE	107-06-2	0	PPB	
BENZENE	71-43-2	0	PPB	
CARBON TETRACHLORIDE	56-23-5	0	PPB	
CYCLOHEXANE	110-82-7	0	PPB	
N-BUTANOL	71-36-3	0	PPB	
TRICHLOROETHENE	79-01-6	0	PPB	
4-METHYL-2-PENTANONE	108-10-1	0	PPB	
TOLUENE	108-88-3	0	PPB	
1,1,2-TRICHLOROETHANE	79-00-5	0	PPB	
TETRACHLOROETHENE	127-18-4	0	PPB	
CHLOROBENZENE	108-90-7	0	PPB	
ETHYLBENZENE	100-41-4	0	PPB	
M-XYLENE	108-38-3	0	PPB	
STYRENE	100-42-5	0	PPB	
O-XYLENE	95-47-6	0	PPB	
1,1,2,2-TETRACHLOROETHANE	79-34-5	0	PPB	
1,3,5-TRIMETHYLBENZENE	108-67-8	0	PPB	
1,2,4-TRIMETHYLBENZENE	95-63-6	0	PPB	
1,3-DICHLOROBENZENE	541-73-1	0	PPB	
1,2-DICHLOROBENZENE	95-60-1	0	PPB	
1,4-DICHLOROBENZENE	106-46-7	0	PPB	

File : C:\HPCHEM\1\DATA\91896_2.D
Operator : MS
Acquired : 18 Sep 96 1:57 pm using AcqMethod CWC
Instrument : 5972 - In
Sample Name: FT6106-P31.34A
Misc Info : 100 TORR
Vial Number: 1

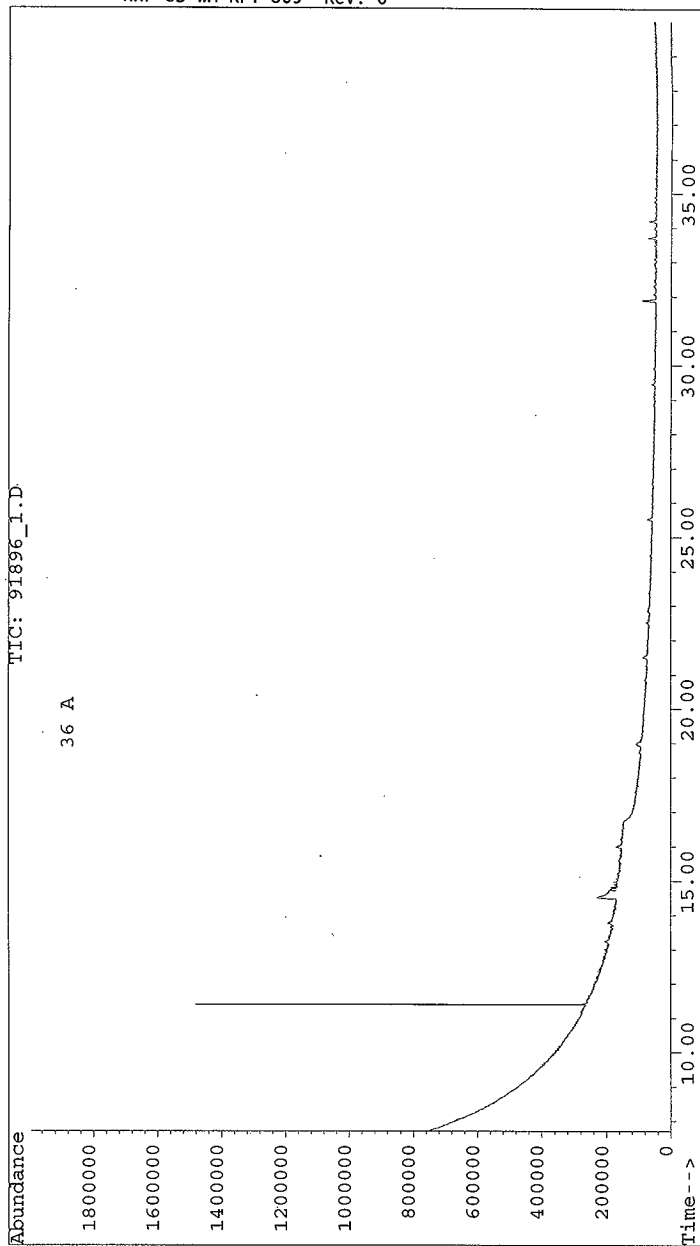


ANALYSIS REPORT FOR CWC AIR SAMPLES

File Name: 91896_2.D
 Analyst: MS
 Analysis Date: 09/18/96
 Method: CWC
 Sample Name: FT6106-P31.34A

COMPOUND NAME	CAS #	Concentration	Units	Comments
ISO-BUTANE	75-28-5	0	PPB	
VINYL CHLORIDE	75-01-4	0	PPB	
ETHANOL	64-17-5	0	PPB	
ACETONE	67-64-1	0	PPB	
2-PROPANOL	67-63-0	0	PPB	
1,1-DICHLOROETHENE	75-35-4	0	PPB	
FREON 113	76-13-1	0	PPB	
DICHLOROMETHANE	75-09-2	0	PPB	
1,1-DICHLOROETHANE	75-34-3	0	PPB	
2-BUTANONE	78-93-3	0	PPB	
N-HEXANE	110-54-3	0	PPB	
1,2-DICHLOROETHENE	156-59-2	0	PPB	
CHLOROFORM	67-66-3	0	PPB	
TETRAHYDROFURAN	109-99-9	0	PPB	
1,1,1-TRICHLOROETHANE	71-55-6	0	PPB	
1,2-DICHLOROETHANE	107-06-2	0	PPB	
BENZENE	71-43-2	0	PPB	
CARBON TETRACHLORIDE	56-23-5	0	PPB	
CYCLOHEXANE	110-82-7	0	PPB	
N-BUTANOL	71-36-3	0	PPB	
TRICHLOROETHENE	79-01-6	0	PPB	
4-METHYL-2-PENTANONE	108-10-1	0	PPB	
TOLUENE	108-88-3	0	PPB	
1,1,2-TRICHLOROETHANE	79-00-5	0	PPB	
TETRACHLOROETHENE	127-18-4	0	PPB	
CHLOROBENZENE	108-90-7	0	PPB	
ETHYLBENZENE	100-41-4	0	PPB	
M-XYLENE	108-38-3	0	PPB	
STYRENE	100-42-5	0	PPB	
O-XYLENE	95-47-6	0	PPB	
1,1,2,2-TETRACHLOROETHANE	79-34-5	0	PPB	
1,3,5-TRIMETHYLBENZENE	108-67-8	0	PPB	
1,2,4-TRIMETHYLBENZENE	95-63-6	0	PPB	
1,3-DICHLOROBENZENE	541-73-1	0	PPB	
1,2-DICHLOROBENZENE	95-50-1	0	PPB	
1,4-DICHLOROBENZENE	106-46-7	0	PPB	

File : C:\HPCHEM\1\DATA\91896_1.D
Operator : MS
Acquired : 18 Sep 96 12:38 pm using AcqMethod CWC
Instrument : 5972 - In
Sample Name: FT6106-P31.36A
Misc Info : 100 TORR
Vial Number: 1

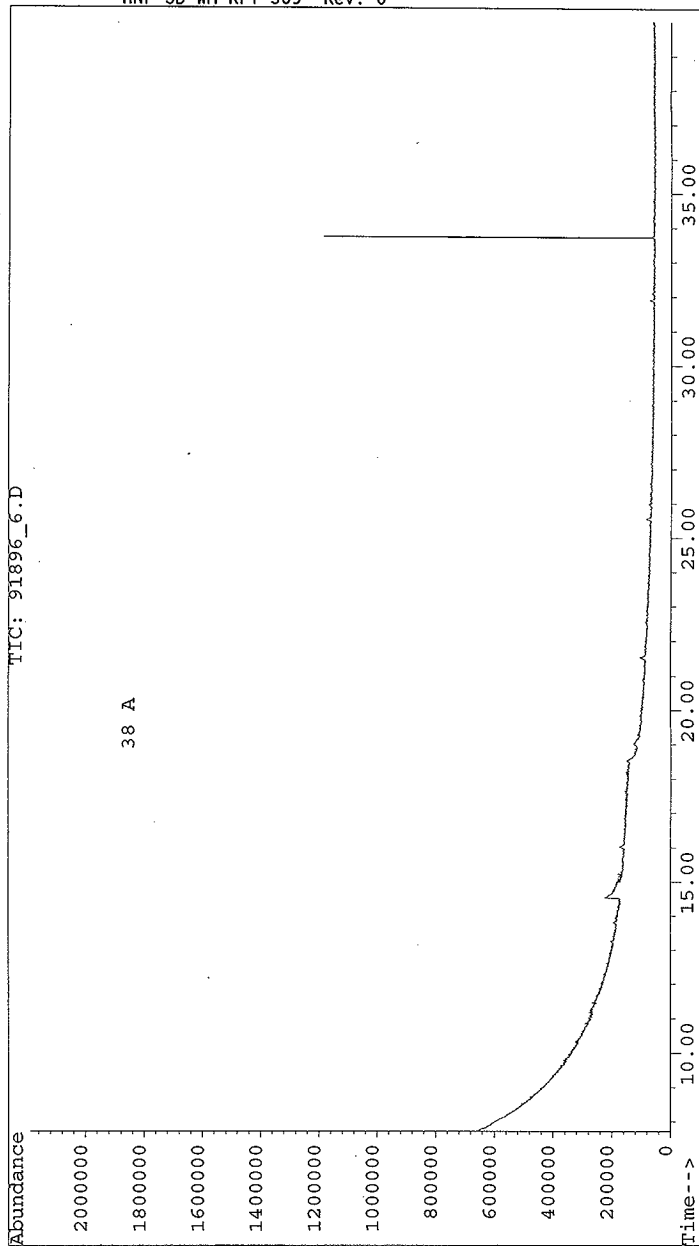


ANALYSIS REPORT FOR CWC AIR SAMPLES

File Name: 91896_1.D
 Analyst: MS
 Analysis Date: 09/18/96
 Method: CWC
 Sample Name: FT6106-P31.36A

COMPOUND NAME	CAS #	Concentration	Units	Comments
ISO-BUTANE	75-28-5	0	PPB	
VINYL CHLORIDE	75-01-4	0	PPB	
ETHANOL	64-17-5	0	PPB	
ACETONE	67-64-1	0	PPB	
2-PROPANOL	67-63-0	0	PPB	
1,1-DICHLOROETHENE	75-35-4	0	PPB	
FREON 113	76-13-1	0	PPB	
DICHLOROMETHANE	75-09-2	0	PPB	
1,1-DICHLOROETHANE	75-34-3	0	PPB	
2-BUTANONE	78-93-3	0	PPB	
N-HEXANE	110-54-3	0	PPB	
1,2-DICHLOROETHENE	156-59-2	0	PPB	
CHLOROFORM	67-66-3	0	PPB	
TETRAHYDROFURAN	109-99-9	0	PPB	
1,1,1-TRICHLOROETHANE	71-55-6	0	PPB	
1,2-DICHLOROETHANE	107-06-2	0	PPB	
BENZENE	71-43-2	0	PPB	
CARBON TETRACHLORIDE	56-23-5	0	PPB	
CYCLOHEXANE	110-82-7	0	PPB	
N-BUTANOL	71-36-3	0	PPB	
TRICHLOROETHENE	79-01-6	0	PPB	
4-METHYL-2-PENTANONE	108-10-1	0	PPB	
TOLUENE	108-88-3	0	PPB	
1,1,2-TRICHLOROETHANE	79-00-5	0	PPB	
TETRACHLOROETHENE	127-18-4	0	PPB	
CHLOROENZENE	108-90-7	0	PPB	
ETHYLBENZENE	100-41-4	0	PPB	
M-XYLENE	108-38-3	0	PPB	
STYRENE	100-42-5	0	PPB	
O-XYLENE	95-47-6	0	PPB	
1,1,2,2-TETRACHLOROETHANE	79-34-5	0	PPB	
1,3,5-TRIMETHYLBENZENE	108-67-8	0	PPB	
1,2,4-TRIMETHYLBENZENE	95-63-6	0	PPB	
1,3-DICHLOROBENZENE	541-73-1	0	PPB	
1,2-DICHLOROBENZENE	95-50-1	0	PPB	
1,4-DICHLOROBENZENE	106-46-7	0	PPB	

File : C:\HPCHEM\1\DATA\91896_6.D
Operator : MS
Acquired : 18 Sep 96 6:24 pm using AcqMethod CWC
Instrument : 5972 - In
Sample Name: FT6106-P31.38A
Misc Info : 100 TORR
Vial Number: 1

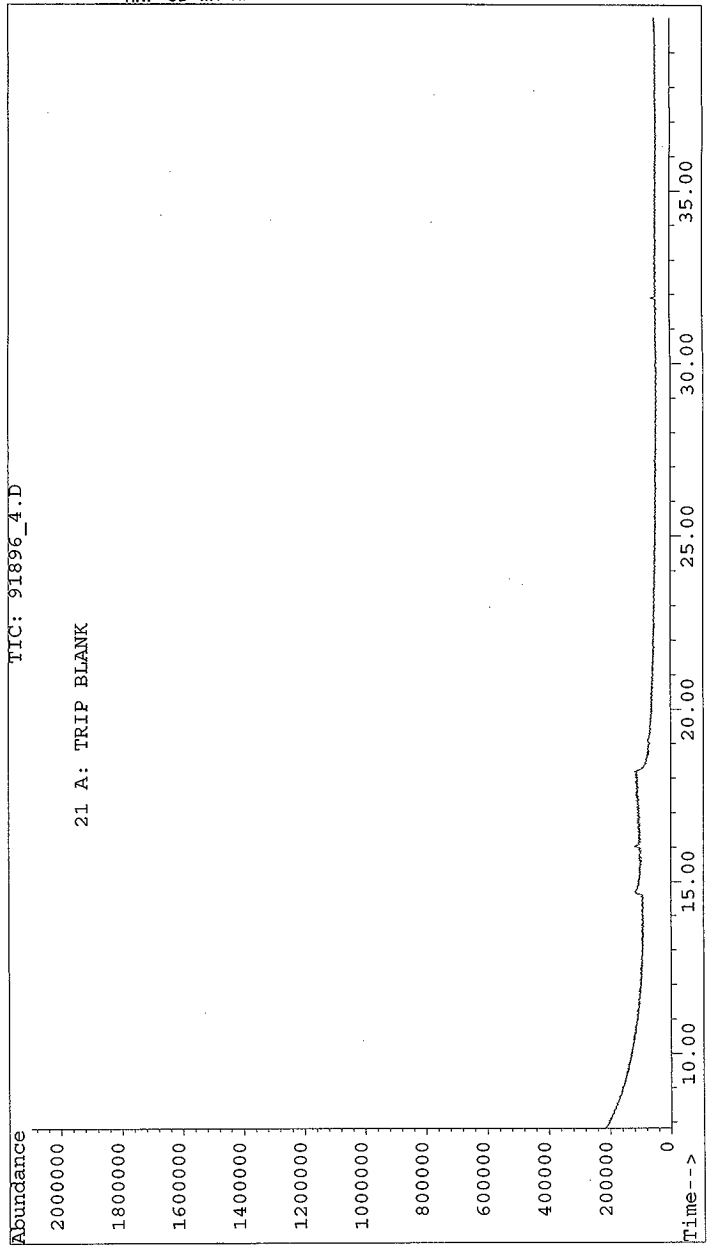


ANALYSIS REPORT FOR CWC AIR SAMPLES

File Name: 91896_6.D
 Analyst: MS
 Analysis Date: 09/18/96
 Method: CWC
 Sample Name: FT6106-P31.38A

COMPOUND NAME	CAS #	Concentration	Units	Comments
ISO-BUTANE	75-28-5	0	PPB	
VINYL CHLORIDE	75-01-4	0	PPB	
ETHANOL	64-17-5	0	PPB	
ACETONE	67-64-1	0	PPB	
2-PROPANOL	67-63-0	0	PPB	
1,1-DICHLOROETHENE	75-35-4	0	PPB	
FREON 113	76-13-1	0	PPB	
DICHLOROMETHANE	75-09-2	0	PPB	
1,1-DICHLOROETHANE	75-34-3	0	PPB	
2-BUTANONE	78-93-3	0	PPB	
N-HEXANE	110-54-3	0	PPB	
1,2-DICHLOROETHENE	156-59-2	0	PPB	
CHLOROFORM	67-66-3	0	PPB	
TETRAHYDROFURAN	109-99-9	0	PPB	
1,1,1-TRICHLOROETHANE	71-55-6	0	PPB	
1,2-DICHLOROETHANE	107-06-2	0	PPB	
BENZENE	71-43-2	0	PPB	
CARBON TETRACHLORIDE	56-23-5	0	PPB	
CYCLOHEXANE	110-82-7	0	PPB	
N-BUTANOL	71-36-3	0	PPB	
TRICHLOROETHENE	79-01-6	0	PPB	
4-METHYL-2-PENTANONE	108-10-1	0	PPB	
TOLUENE	108-88-3	0	PPB	
1,1,2-TRICHLOROETHANE	79-00-5	0	PPB	
TETRACHLOROETHENE	127-18-4	0	PPB	
CHLOROBENZENE	108-90-7	0	PPB	
ETHYLBENZENE	100-41-4	0	PPB	
M-XYLENE	108-38-3	0	PPB	
STYRENE	100-42-5	0	PPB	
O-XYLENE	95-47-6	0	PPB	
1,1,2,2-TETRACHLOROETHANE	79-34-5	0	PPB	
1,3,5-TRIMETHYLBENZENE	108-67-8	0	PPB	
1,2,4-TRIMETHYLBENZENE	95-63-6	0	PPB	
1,3-DICHLOROBENZENE	541-73-1	0	PPB	
1,2-DICHLOROBENZENE	95-50-1	0	PPB	
1,4-DICHLOROBENZENE	106-46-7	0	PPB	

File : C:\HPCHEM\1\DATA\91896_4.D
Operator : MS
Acquired : 18 Sep 96 4:03 pm using AcqMethod CWC
Instrument : 5972 - In
Sample Name: FT6106-TR.21A
Misc Info : 100 TORR
Vial Number: 1



ANALYSIS REPORT FOR CWC AIR SAMPLES

File Name: 91896_4.D
 Analyst: MS
 Analysis Date: 09/18/96
 Method: CWC
 Sample Name: FT6106-TR.21A

COMPOUND NAME	CAS #	Concentration	Units	Comments
ISO-BUTANE	75-28-5	0	PPB	
VINYL CHLORIDE	75-01-4	0	PPB	
ETHANOL	64-17-5	0	PPB	
ACETONE	67-64-1	0	PPB	
2-PROPANOL	67-63-0	0	PPB	
1,1-DICHLOROETHENE	75-35-4	0	PPB	
FREON 113	76-13-1	0	PPB	
DICHLOROMETHANE	75-09-2	0	PPB	
1,1-DICHLOROETHANE	75-34-3	0	PPB	
2-BUTANONE	78-93-3	0	PPB	
N-HEXANE	110-54-3	0	PPB	
1,2-DICHLOROETHENE	156-59-2	0	PPB	
CHLOROFORM	67-66-3	0	PPB	
TETRAHYDROFURAN	109-99-9	0	PPB	
1,1,1-TRICHLOROETHANE	71-55-6	0	PPB	
1,2-DICHLOROETHANE	107-06-2	0	PPB	
BENZENE	71-43-2	0	PPB	
CARBON TETRACHLORIDE	56-23-5	0	PPB	
CYCLOHEXANE	110-82-7	0	PPB	
N-BUTANOL	71-36-3	0	PPB	
TRICHLOROETHENE	79-01-6	0	PPB	
4-METHYL-2-PENTANONE	108-10-1	0	PPB	
TOLUENE	108-88-3	0	PPB	
1,1,2-TRICHLOROETHANE	79-00-5	0	PPB	
TETRACHLOROETHENE	127-18-4	0	PPB	
CHLOROBENZENE	108-90-7	0	PPB	
ETHYLBENZENE	100-41-4	0	PPB	
M-XYLENE	108-38-3	0	PPB	
STYRENE	100-42-5	0	PPB	
O-XYLENE	95-47-6	0	PPB	
1,1,2,2-TETRACHLOROETHANE	79-34-5	0	PPB	
1,3,5-TRIMETHYLBENZENE	108-67-8	0	PPB	
1,2,4-TRIMETHYLBENZENE	95-63-6	0	PPB	
1,3-DICHLOROBENZENE	541-73-1	0	PPB	
1,2-DICHLOROBENZENE	95-50-1	0	PPB	
1,4-DICHLOROBENZENE	106-46-7	0	PPB	

DISTRIBUTION SHEET

To	From	Page 1 of 1
Distribution	M. Stauffer	Date 9/30/97
Project Title/Work Order		EDT No. 620336
HNF-SD-WM-RPT-309, Rev. 0, Report on Sampling and Analysis of Air at Trenches 218-W-4C and 218-W-5 #31 of the Low Level Burial Grounds		ECN No. N/A

Name	MSIN	Text With All Attach.	Text Only	Attach./Appendix Only	EDT/ECN Only
B. M. Barnes	T4-04	X			
P. B. Brannan	T4-62	X			
R. M. Irwin	T4-03	X			
L. L. Lockrem	S3-90	X			
J. J. Luke	H6-25	X			
K. M. McDonald	T4-04	X			
V. S. Mitchell	T4-05	X			
L. A. Pingel	S3-90	X			
M. Stauffer	S3-90	X			
D. L. Vance	T4-06	X			
R. S. Viswanath	S3-90	X			
Central Files	A3-88	X			
SAS Files	S3-90	X			