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PRELIMINARY ASSESSMENT REPORT
FORMER UNDERGROUND SOLVENT STORAGE TANK SITE
PACIFIC AIRMOTIVE CORPORATION
BURBANK, CALIFORNIA

30 SEPTEMBER 1988

(K/J/C 882504.00)

1105

PRELIMINARY ASSESSMENT REPORT
FORMER UNDERGROUND SOLVENT STORAGE TANK SITE
PACIFIC AIRMOTIVE CORPORATION
BURBANK, CALIFORNIA

30 SEPTEMBER 1988

(K/J/C 882504.00)

Prepared by:

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30 September 1988

1105

Mr. Eugene Fox
Vice President, General Manager
Pacific Airmotive Corporation
2940 North Hollywood Way
Burbank, CA 91550-1095

Subject: Preliminary Assessment Report
Former Underground Solvent
Storage Tank Site
Burbank, California
(K/J/C 882504.00)

Dear Mr. Fox:

In accordance with our letter agreement of 29 July 1988, two soil borings have been drilled in the vicinity of three former underground solvent storage tanks and two sumps have been inspected at the Pacific Airmotive Corporation (PAC) facility in Burbank, California. This letter report summarizes findings from the analysis of soil samples obtained from the borings and from our visual inspection of the sumps. Logs of the borings are presented in Attachment A. Copies of the laboratory reports for soil sample analyses are presented in Attachment B. Included in Attachment C are copies of gas chromatograph scans obtained from analyses for Total Petroleum Hydrocarbons (TPH).

BACKGROUND

PAC services jet engines for the aviation industry at its Burbank facility. As you informed us, Stoddard Solvent, a petroleum distillate, is utilized as part of operations for steam cleaning engine parts at Building No. 2. Both product and waste Stoddard Solvent were reportedly stored in three underground tanks behind building No. 2. These tanks were removed prior to December of 1981, as you also reported. Two of the three tanks had a nominal capacity of 1,500 gallons and the third tank had a reported nominal capacity of 300 gallons. Figure 1 shows the approximate locations of the former underground solvent storage tanks.

On 12 July 1988, Mr. Noel Lerner of Kennedy/Jenks/Chilton (K/J/C) met with you and Mr. David Bacharowski of the Los Angeles Regional Water Quality Control Board (RWQCB) to discuss findings of the Preliminary Site Assessment Report for Drum Storage Areas dated 16 May 1988 (K/J/C 882504.00). Because these tanks were removed prior to the adoption of underground tank regulations, no

soil samples were collected during their removal. To determine whether the three tanks may have leaked solvents to the surrounding soils, PAC agreed to the RWQCB's request to investigate soils in the area previously occupied by the tanks.

Another topic discussed during the 12 July 1988 meeting related to the U.S. Environmental Protection Agency's (EPA) program evaluating possible sources of solvents that have been detected in groundwater in the San Fernando Valley. EPA is focusing their attention on underground tanks and industrial sumps. At Mr. Bacharowski's request, PAC agreed to submit to the RWQCB results of periodic inspections of two of the four sumps located at their facility. The two other sumps were inspected as part of the current investigation.

HYDROGEOLOGY

As described in Groundwater Monitoring Program for Pacific Airmotive Corporation Jet Fuel (K/J/C 872505.01) dated 30 July 1987, Pacific Airmotive Corporation is located near the center of the east margin of the San Fernando Basin, where the Basin adjoins the Verdugo Mountains. The Basin drains southeast from the facility site through the Los Angeles River Narrows. The gently sloped ground surface directs runoff southeasterly into the Burbank Western Channel which is a tributary to the Los Angeles River.

A previous site assessment was performed by Kennedy/Jenks/Chilton at PAC's nearby jet engine test facility (Groundwater Monitoring Program for Pacific Airmotive Corporation Jet Fuel Site [K/J/C 872505.01], dated 30 July 1987). As part of this previous investigation, two monitoring wells were drilled to depths of approximately 215 feet below ground surface. These monitoring wells are located within approximately 1,500 feet of above-ground drum storage areas. During drilling of the monitoring wells, groundwater was first encountered at depths of 209 feet and 211 feet. Groundwater stabilized after well development at depths of 203 feet and 204 feet below the ground surface.

During drilling of the monitoring wells, crudely stratified, unconsolidated older alluvial units of late Pleistocene geologic age were encountered. These units consist primarily of pervious light brown, brown, and gray sandy gravels and gravelly sands, but also contain less permeable red and brown silty sands. Bedding is assumed to be approximately horizontal, although this was not directly observed.

The soils encountered in the two soil borings during the investigation of the former underground solvent storage tanks are similar in composition to the soils encountered during drilling of the jet engine test facility monitoring wells. They are also similar to soils encountered in the 10 soil borings drilled at the various drum storage areas of the facility (refer to Preliminary Assessment Report for Drum Storage Areas dated 16 May 1988 [K/J/C 882504.00]).

FIELD INVESTIGATION

Field work was conducted by Kennedy/Jenks/Chilton on 16 August 1988. This work included drilling and sampling two soil borings in the vicinity of the former underground solvent storage tanks and the visual inspection of two facility sumps. The approximate locations of the two borings and the two sumps are shown on Figures 2 and 3.

Soil Sampling

During drilling and sampling, a log of the soils encountered was prepared by a Kennedy/Jenks/Chilton geologist. Undisturbed soil samples recovered during drilling were lithologically described and were classified according to the Unified Soil Classification System (USCS). The boring logs are included in Attachment A to this report.

The two soil borings were drilled in the vicinity of the three former underground solvent storage tanks near Building No. 2. The former locations of the tanks were inferred from asphalt patches covering the area where they were reportedly located.

The borings were drilled to depths ranging from 40 to 50 feet utilizing a truck-mounted drilling rig (Mobile Drill B-80) equipped with 8-inch diameter hollow stem augers. Undisturbed soil samples were obtained using a California modified split spoon sampler with 2.5-inch diameter by 3-inch long stainless steel liners placed inside the sampling tube. The sampler was driven 18 inches into the soil ahead of the auger using a standard 140-pound free falling hammer. Blow counts were recorded for every 6 inches driven and are indicated on the boring logs. Soils were backfilled with approximately a 3/1 mixture of Monterey sand and bentonite clay.

Undisturbed soil samples were collected at approximately 5-foot intervals. Samples were collected from each boring beginning at 7.5 feet below the ground surface and ending 42 feet and 50 feet below ground surface for borings B-11 and B-12, respectively. Soil boring B-12 was drilled beyond 40 feet due to the presence of organic vapors detected during field monitoring of the collected soil samples. Drilling terminated at the 50-foot depth due to the low (2 to 3 ppm as methane equivalent) concentrations of organic vapors detected in the headspace above the soil samples collected from depths of 45 and 50 feet. Organic vapor monitoring procedures are described later in this section.

Soil samples were collected and preserved by covering both ends of the samples with Teflon sheets which were held in placed by plastic caps during shipping. A label was attached to each tube to indicate the site name, date, initials of collector, boring number, sample number, and sample depth. Samples were kept

chilled in an ice chest for preservation purposes prior to and during transportation of the samples. A chain-of-custody form was completed and included with the samples during shipment to the Kennedy/Jenks/Chilton Laboratory Division in San Francisco.

The auger flights were steam cleaned before drilling and again between each boring. The split spoon sampler was cleaned and rinsed with soap and water and again rinsed with deionized water between each subsequent use to reduce the possibility of cross-contamination.

Soil samples were monitored in the field for the presence of ogranic vapors using a Foxboro Organic Vapor Analyzer Model 128 (OVA). Sampling was performed by extruding soil from one of the sample tubes into a glass container. After disaggregating the material, the container was covered and placed in a warm area to promote volatilization. After approximately 15 minutes, the concentration of organic vapors present in the container headspace was measured with the OVA. The OVA measurements are reported on the boring logs as volumetric parts per million (ppm), methane equivalent.

Sump Investigation

On 16 August 1988, Mr. David Bacharowski of the RWQCB met with representatives from PAC and Kennedy/Jenks/Chilton to visually inspect two sumps located at the PAC facility. These sumps, shown on Figure 3, were:

- o A stainless steel-lined sump located inside the chemical room of Building No. 2.
- o A boiler and cooling tower blowdown sump located west of Building No. 2.

In 1983, an approximately 4-inch thick concrete sump was installed in the chemical room of Building No. 2. This sump was retrofitted with a stainless steel lining later in 1983. This sump is used for collection of spilled calibration fluid. Reportedly, this fluid is Union Chemical No. MIL-C-7024 Stoddard Solvent and is used for the testing of equipment gauges by PAC. See MSDS in file According to PAC personnel, the calibration fluid was originally piped from the test areas in Building No. 2 to an underground storage tank located east of Building No. 2. This tank was removed prior to December 1981 and is one of the three former underground solvent storage tanks investigated in this report.

For the visual inspection, the stainless steel ~~lain~~ liner was removed and the concrete lined sump was cleaned to expose the concrete surfaces. There were no apparent cracks in the sump; however, a wood flooring installed to adjust the

fit of the liner was present, prohibiting an inspection of the base of the sump. During the inspection, there was no evidence of leakage from the liner as no staining was noted on the wooden flooring.

The approximately 4-inch thick lined concrete sump located west of Building No. 2 was installed in 1983. This sump is used primarily for the collection of effluent from the boiler and cooling tower blowdown. However, it is also used to collect the discharge from the steam cleaning area. During the visual inspection of the sump, several small cracks were noted in the concrete at ground surface and also at approximately 2-feet above the base of the sump near the apparent high water level mark. However, no major cracks were observed at the base of the sump.

The facility has two additional industrial wastewater collection sumps (clarifiers) but, as agreed during Mr. Bacharowski's 16 August visit, they were not inspected. These clarifiers are located northeast of Building No. 2 and east of Test Cell No. 2 (refer to Figure 4 and 5). They are sampled and chemically analyzed on a quarterly basis per EPA requirements for permitted RCRA facilities. As PAC agreed during the 16 August 1988 meeting, the results of these samples will be forwarded by PAC to the RWQCB on a routine basis.

RESULTS OF LABORATORY ANALYSES

Selected soil samples from the two borings drilled within the former underground tank excavation were analyzed for volatile organic compounds (VOCs) and Total Petroleum Hydrocarbons (TPH). The laboratory analyses reports are included in Attachment B of this report. A summary of the analytical methods used in the laboratory are presented below:

- Volatile Organic Compounds (VOCs) - determined by EPA Method 8240 utilizing gas chromatography/mass spectroscopy (GC/MS).
- Total Petroleum Hydrocarbons (TPH) - pentane extract analyzed by gas chromatography scan utilizing a flame ionization detector (GC/FID) and commercial hydrocarbon samples as standards.

As described in the investigation work plan, analyses were selected on the basis of the chemicals reportedly stored in the former underground solvent storage tanks. Although chlorinated hydrocarbons are not constituents of Stoddard Solvent (the primary solvent stored in the tanks), the were included in the analytical program because chlorinated solvents may have been mixed with waste Stoddard Solvent during the cleaning of engine parts. Table 1 summarizes the laboratory analyses results for each boring investigated and is included in the discussions presented below. When available, relevant criteria or calculated soil threshold levels are included in these tables.

Soil threshold levels are recommended by regulatory agencies as acceptable limits of chemical concentrations in soil. Presently, there are no soil threshold levels established for VOCs. To determine acceptable soil threshold levels for VOCs, Drinking Water Action Levels recommended by the State of California Department of Health Services (DHS) for individual chemicals (Region 9 EPA Drinking Water Standards and Health Advisory Table, September 1987) were multiplied by an attenuation factor of 1,000. Attenuation factors of 100- to 1,000-fold have been adopted by the EPA to develop federal regulations pursuant to RCRA (background documents for RCRA, Subtitle C, Section 3001) and by the DHS to develop hazardous waste management criteria ("Final Statement of Reasons for Proposed Regulations", Appendix III, Criteria for Identification of Hazardous and Extremely Hazardous Wastes).

Petroleum hydrocarbons (including Stoddard Solvent) were not detected in any of the soil samples analyzed. Toluene was detected in all soil samples analyzed for VOCs, and concentrations appear to decrease with depth. Concentrations detected in the shallowest samples collected (7.5 feet below ground surface) ranged from 0.057 mg/Kg to 0.033 mg/Kg, while concentrations in the deepest samples at depths of 42 to 50 feet ranged from 0.007 mg/Kg to 0.020 mg/Kg. The highest concentration of toluene detected was 0.095 g/Kg. This concentration was noted in sample B12-2 taken from a depth of 12 feet below ground surface.

Tetrachloroethylene (PCE) and trichloroethylene (TCE) were also detected in soil samples analyzed for VOCs. Concentrations of PCE were only detected in the 7.5-foot to 12-foot depth interval below ground surface and ranged from 0.380 mg/Kg to 0.012 mg/Kg. TCE was detected at a concentration of 0.011 mg/Kg in one sample (sample B12-2) taken from a depth of 12 feet below ground surface.

FINDINGS AND RECOMMENDATIONS

Underground Tank Site

Toluene, PCE, and TCE were the only chemicals detected in soil samples analyzed from the former underground solvent storage tank area. Toluene was detected in soil samples analyzed to a depth of 50 feet. Concentrations ranged from 0.095 mg/Kg at a depth of 12 feet to 0.007 mg/Kg at a depth of 50 feet. PCE was detected in the two shallowest soil samples from each boring at concentrations of 0.380 mg/Kg to 0.012 mg/kg, but was not detected in samples deeper than 12 feet below ground surface. TCE was detected in only one sample. This concentration was 0.011 mg/Kg in soil sample B12-2 taken from a depth of 12 feet below ground surface. Concentrations of toluene, PCE, and TCE detected are below the calculated soil threshold level of 100 mg/Kg, 4 mg/Kg, and 5 mg/Kg, respectively.

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On the basis of the results of the soil samples analyzed, it is unlikely that a significant leakage of chemicals occurred from the three underground storage tanks. The concentrations of chemicals detected in the soil samples are below calculated soil threshold levels. Given the depth to groundwater of approximately 200 feet, these chemicals do not appear to present a potential for significant impact to groundwater quality. Thus, remediation of these soils does not appear warranted. However, it is recommended that the asphalt pavement be maintained over the area to reduce infiltration of surface runoff.

agree

Sumps * [Lockheed has installed 3 g.w. monitoring well within 20 feet of the u.g tanks. G.W. data from well screened in uppermost zone to be obtained and evaluated for presence of Toluene ect.

As there were no visible indications of deterioration of the stainless steel liner or cracks evident in the exposed portion of the chemical room sump in Building No. 2, no remedial actions appear warranted at this time.

* Cracks noticed in the boiler and cooling tower blowdown sump near Building No. 2 should be repaired. It is recommended that this sump also be fitted with a stainless steel liner to provide secondary containment. If wooden shims are necessary to fit the liner, they should be installed to allow visible inspection of the base of the sump.

agree Both of these sumps should be inspected on a quarterly basis at the same time the clarifiers are inspected to comply with the facility's RCRA permit requirements. The next quarterly reports containing the results of clarifier inspections should be forwarded to the RWQCB as well as the EPA. The RWQCB staff should also be informed prior to the next inspection so they may observe the inspection.

If you have any questions about our report, please do not hesitate to call us.

Very truly yours,

KENNEDY/JENKS/CHILTON

Noel M. Lerner

Noel M. Lerner, P.E.
Project Manager

NML:ap

Enclosures: Table 1
Figures 1, 2, 3, 4 and 5
Attachments - A, B, and C

cc: Mr. David Bacharowski - RWQCB, Los Angeles Region

TABLE 1

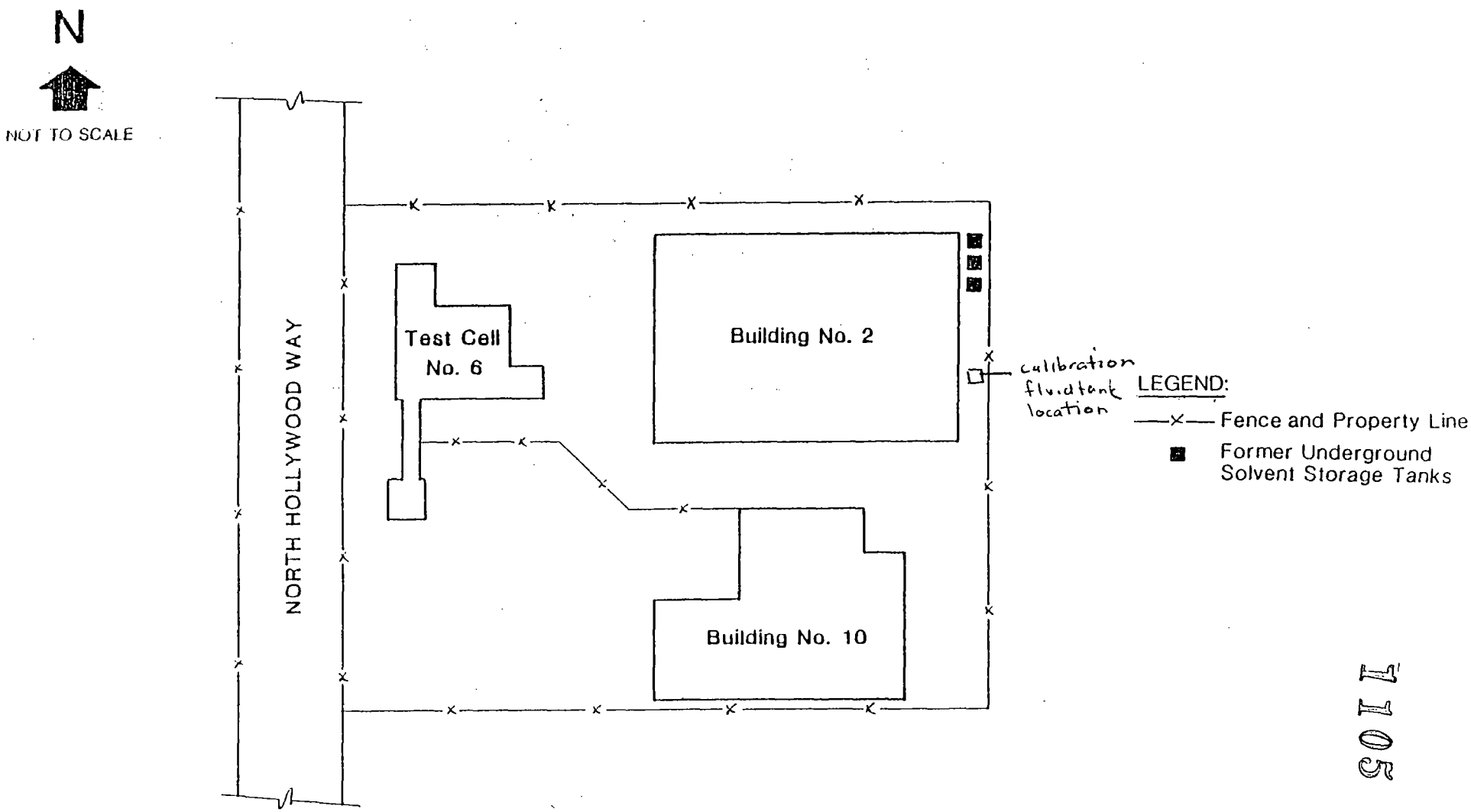
Kennedy/Jenks/Chilton

SUMMARY OF CHEMICAL ANALYSES OF SOIL SAMPLES
FORMER UNDERGROUND SOLVENT STORAGE TANK SITE
PACIFIC AIRMOTIVE CORPORATION
BURBANK, CALIFORNIA
(K/J/C 882504.00)

SAMPLE NO.[a]	DEPTH BELOW GROUND SURFACE (feet)	CHEMICAL CONCENTRATION (mg/Kg)					
		Petroleum Hydrocarbons[b]			VOCs[c]		
		as gasoline	as diesel fuel	as Stoddard Solvent	toluene	PCE	TCE
B11-1	7.5	<1	<1.7	<2	0.057	<0.180	<0.005
B11-2	10	<1	<1.7	<2	0.012	<0.012	<0.005
B11-3	20	<1	<1.7	<2	0.009	<0.005	<0.005
B11-4	30	<1	<1.7	<2	0.018	<0.005	<0.005
B11-5	42	<1	<1.7	<2	0.012	<0.005	<0.005
B12-1	7.5	<1	<1.7	<2	0.033	0.012	<0.005
B12-2	12	<1	<1.7	<2	0.095	<0.380	<0.011
B12-3	20	<1	<1.7	<2	0.007	<0.005	<0.005
B12-4	32	<1	<1.7	<2	0.016	<0.005	<0.005
B12-5	40	<1	<1.7	<2	0.018	<0.005	<0.005
B12-6	45	<1	<1.7	<2	0.020	<0.005	<0.005
B12-7	50	<1	<1.7	<2	0.007	<0.005	<0.005
Soil Threshold Levels		100 to 10,000[d]	NA	NA	100[e]	4[e]	5[e]

a. Refer to Figure 2 for location of soil borings.
b. Laboratory analysis of pentane extract by gas chromatography scan with flame ionization detection using commercial hydrocarbon samples as comparison standards.
c. VOCs (Volatile Organic Compounds) detected by EPA Method 8240 for purgeable organics by gas chromatography/mass spectroscopy (GC/MS).
d. Levels cited in State Water Resources Control Board Leaking Underground Fuel Tank Field Manual, May 1988.
e. Calculated soil threshold level based on multiplying Drinking Water Action Levels recommended by the Department of Health Services by a factor of 1,000. Drinking Water Action Levels are reported in EPA Region IX Drinking Water Standards and Health Advisory Table dated 21 September 1987.

NA - Not available
< - Symbol denotes that the concentration is below the detection limits of the analysis method.
PCE Tetrachloroethylene (Perchloroethylene)
TCE Trichloroethylene



NOTE: Figure based on Site Plan dated 8/11/81 Serial #8944, Index 76684. Prepared for Purex Industries, Inc., Burbank, California

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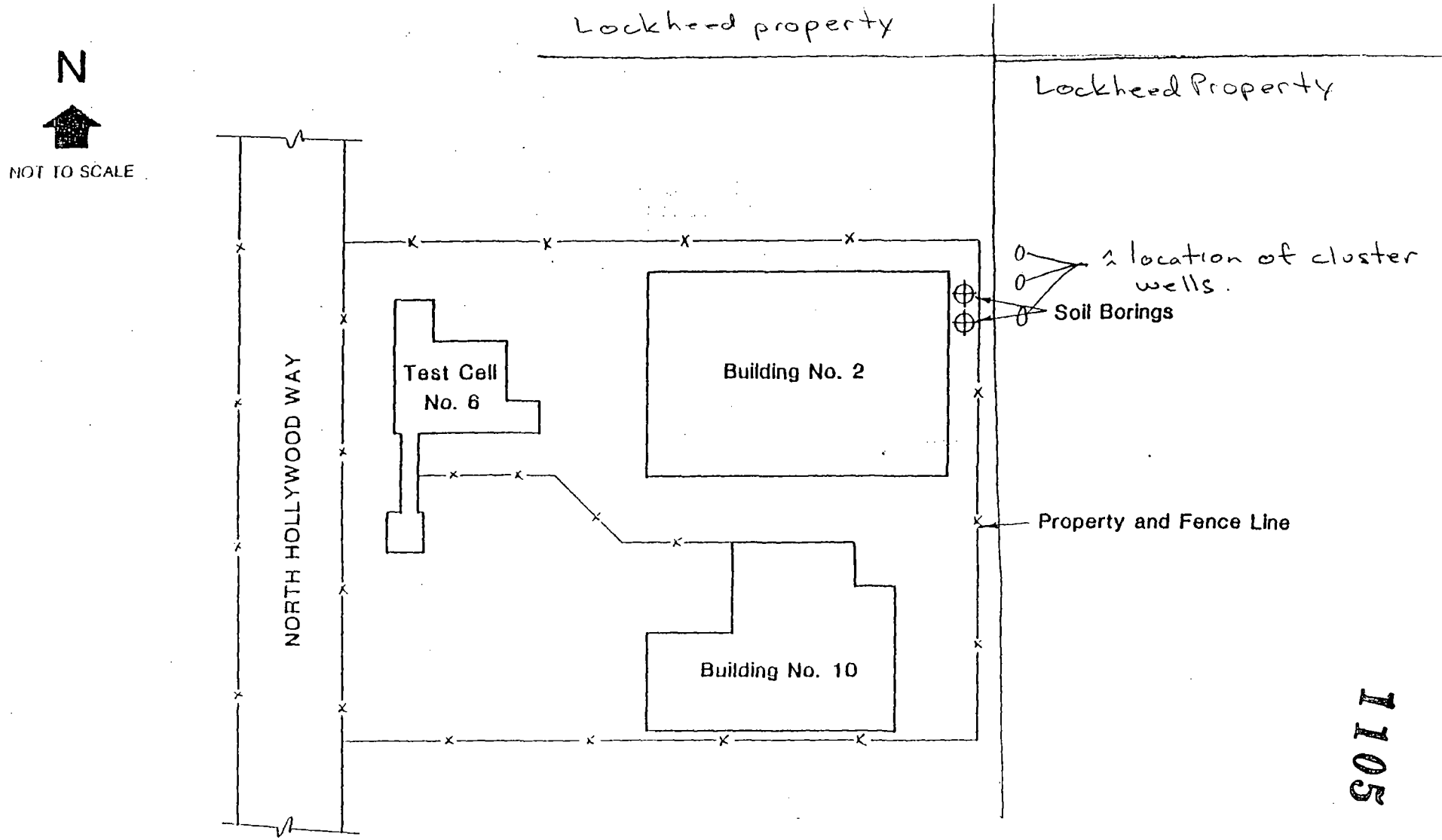
Preliminary Site Assessr
Pacific Airmotive Corpora
Burbank,

Approximate Locations of Former Undergrc
Solvent Storage Ta

K/J/C 88250
September 1

Figu



NOTE: Figure based on Site Plan dated 8/11/81 Serial #8944, Index 76684. Prepared for Purex Industries, Inc., Burbank, California

Kennedy/Jenks/C

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Approximate Location of Soil B

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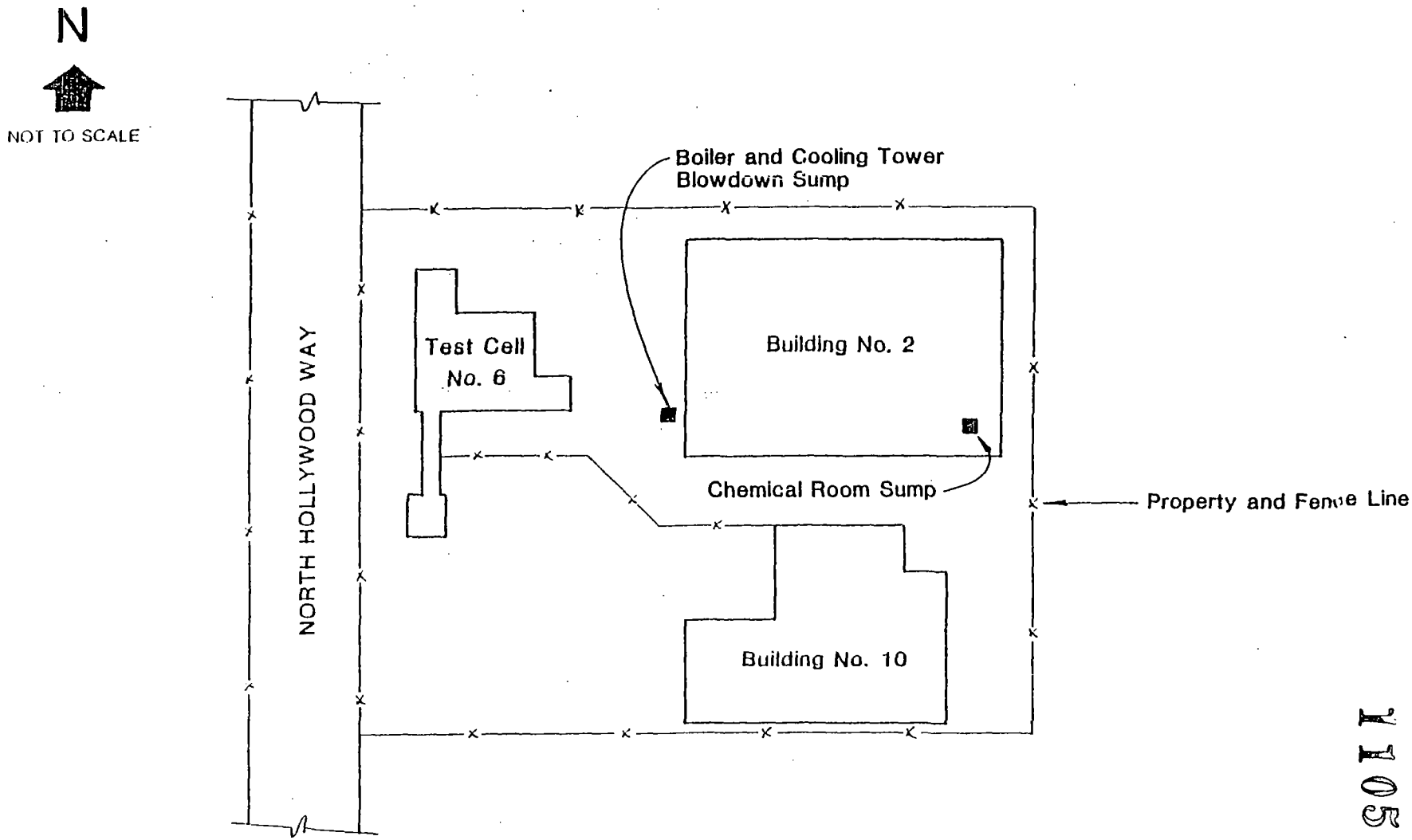

NOTE: Figure based on Site Plan dated 8/11/81
Serial #8944, Index 76684. Prepared for
Purex Industries, Inc., Burbank, California

Kennedy/Jenks/Ch

Preliminary Site Assess
Pacific Airmotive Corpor
Burbank

Approximate Location of Visually Inspe
Facility S

K/J/C 8825
September

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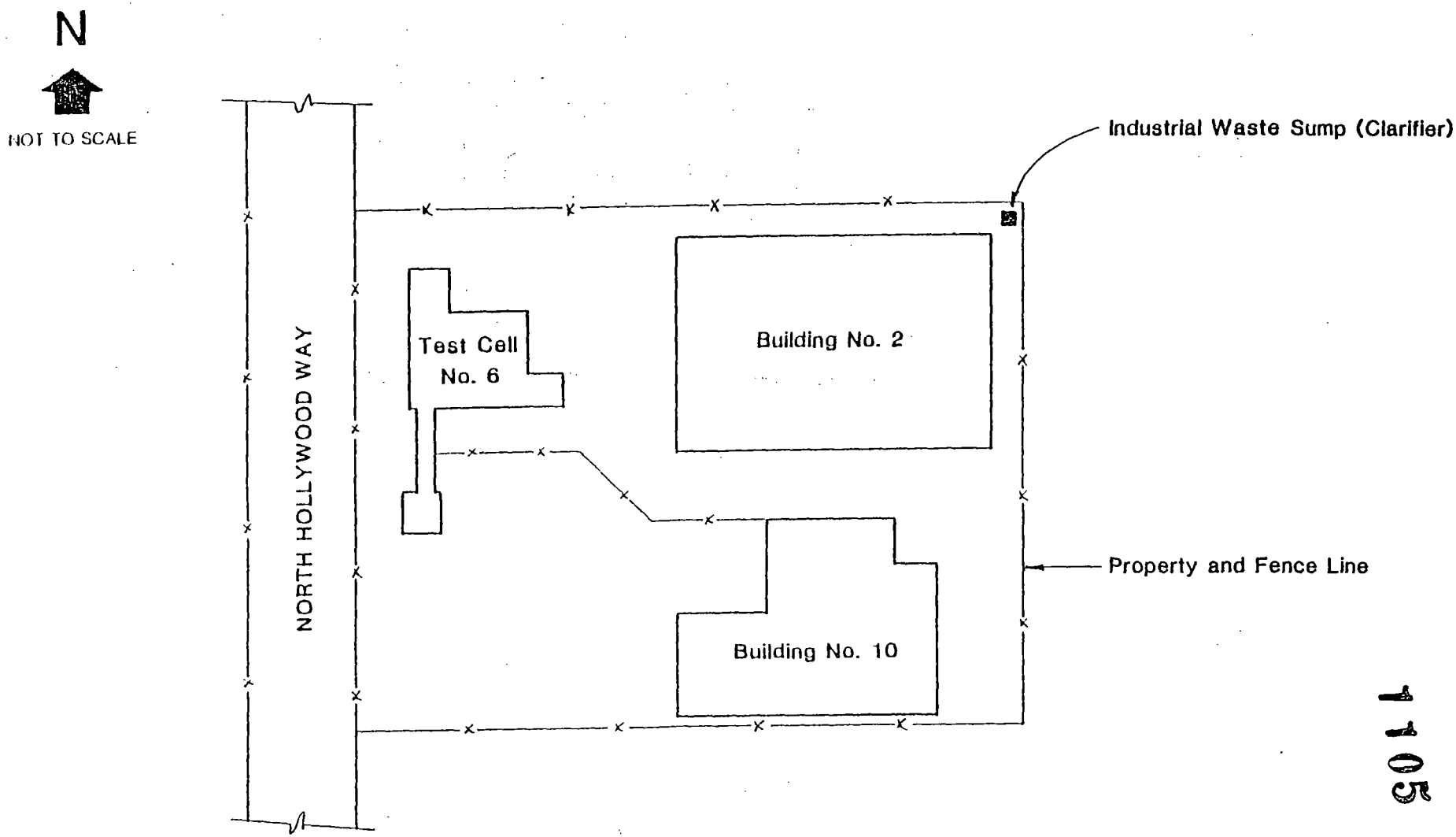

NOTE: Figure based on Site Plan dated 8/11/81
Serial #8944, Index 76684. Prepared for
Purex Industries, Inc., Burbank, California

Kennedy/Jenks/C

Preliminary Site Asses
Pacific Airmotive Corpc
Burbar

Approximate Location of Building
Industrial Waste

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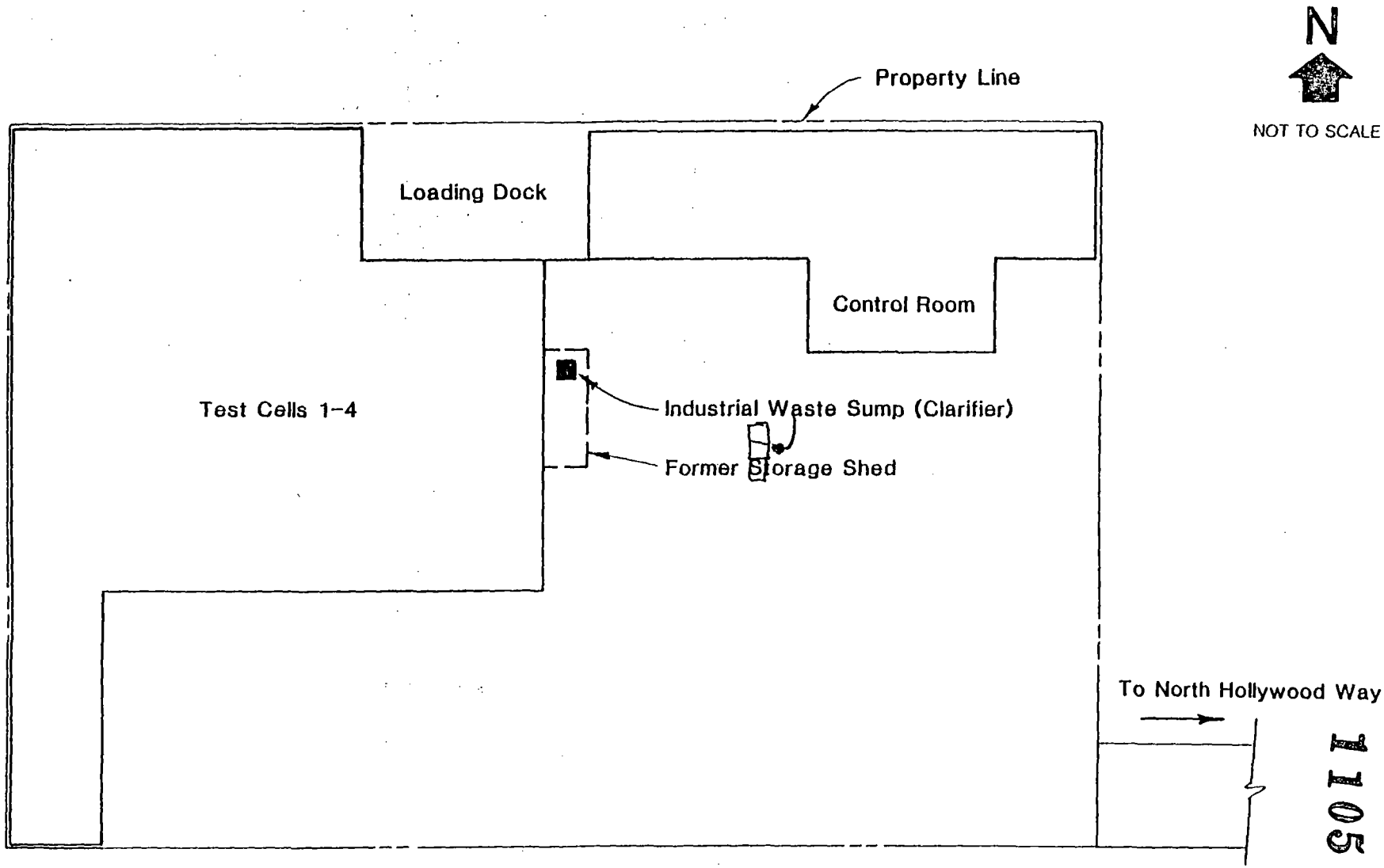

NOTE: Figure based on Plot Plan by James H. Francis EM 77935, prepared for Pacific Airmotive Corp., Burbank, Ca.

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Preliminary Assessme
Pacific Airmotive Corporat
Burbank, Califor

Approximate Location of Test Cell Faci
Industrial Waste Su

3003 N Hollywood Way

K/J/C 882504
September 1

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Attachment A to Kennedy/Jenks/Chilton's
letter to Mr. Eugene Fox dated
30 September 1988

ATTACHMENT A

SOIL BORING LOGS

Kennedy/Jenks/Chilton

PROJECT: PACIFIC AIRMOTIVE CORPORATION

JOB NO: 882504.00

DATE: 8/16/88

BY: M. GIBSON

BORING B-11

Details of Boring and Well Construction

SURFACE ELEVATION: NOT MEASURED

DRILLING METHODS: HOLLOW STEM AUGER 8 INCH DIAMETER

SAMPLING METHODS: 2.5 INCH CALIFORNIA MODIFIED SPLIT SPOON

DRILLER: DATUM EXPLORATION

SAMPLE NUMBER	SAMPLER TYPE	BLOWS/6" INTERVAL	Well Construction	DEPTH IN FEET	USCS	SYMBOLS	
							3 INCH THICK ASPHALT W/ GRAVEL SUB-BASE
							FILL: HETEROGENOUS MATERIAL CONSISTING OF LIGHT BROWN FINE TO MEDIUM SAND & SILTY SAND W/GRAVEL
				5			
1	C.M.	4/5/7	BACKFILL SAND W/ BENTONITE		SM		SILTY SAND: BROWN, FINE TO MEDIUM GRAINED, DAMP OVA = 10 ppm
2	C.M.	7/11/12		10			SILTY SAND: BROWN, FINE TO MEDIUM GRAINED, DAMP SOME VERY COARSE SAND OVA = 2.5 ppm
				15			MORE SILT
3	C.M.	22/25/50		20			WELL GRADED SAND W/GRAVEL: GREY, DAMP OVA = 4 ppm
				25	SW		
4	C.M.	14/21/28		30	SM		SILTY SAND: BROWN, FINE TO MEDIUM GRAINED W/COARSE SAND, DAMP OVA = 4.0 ppm
					SW		
				35			

SHEET 1 OF 2

PROJECT PACIFIC AIRMOTIVE CORPORATION

JOB NO 882504.00

DATE 8/16/88

BY M. GIBSON

BORING B-11

Details of Boring and Well Construction

SURFACE ELEVATION: NOT MEASURED

DRILLING METHODS: HOLLOW STEM AUGER 8 INCH DIAMETER

SAMPLING METHODS: 2.5 INCH CALIFORNIA MODIFIED SPLIT SPOON

DRILLER: DATUM EXPLORATION

SAMPLE NUMBER	SAMPLER TYPE	BLOWS/6" INTERVAL	Well Construction	DEPTH IN FEET	USCS	SYMBOLS	
				40	-W		WELL GRADED SAND W/GRAVEL: GREY, DAMP OVA = 2.0 ppm
5	C.M.	30 50 60(5)					

BOTTOM OF BORING AT 42 FEET
DRIVE SAMPLE TO 43.5 FEET

NOTE: 1. OVA READINGS CORRESPOND TO FIELD HEADSPACE MEASUREMENT. APPROXIMATELY 100 GRAMS OF SOIL WERE PLACED IN A 1 - PINT WIDE MOUTH PLASTIC JAR, THE LID CLOSED, AND THE JAR ALLOWED TO STAND FOR APPROXIMATELY 10 MINUTES AT AMBIENT TEMPERATURE, THE LID WAS THEN REMOVED, THE PROBE QUICKLY INSERTED, AND THE READINGS OBTAINED. OVA READINGS WERE TAKEN AT EVERY DRIVE SAMPLE INTERVAL.

PROJECT: PACIFIC AIRMOTIVE CORPORATION

JOB NO: 882504.00

DATE: 8/16/88

BY: M. GIBSON

BORING B-12

Details of Boring and Well Construction

SURFACE ELEVATION: NOT MEASURED

DRILLING METHODS: HOLLOW STEM AUGER 8 INCH DIAMETER

SAMPLING METHODS: 2.5 INCH CALIFORNIA MODIFIED SPLIT SPOON

DRILLER: DATUM EXPLORATION

SAMPLE NUMBER	SAMPLER TYPE	BLOWS/6" INTERVAL	Well Construction	DEPTH IN FEET	USCS	SYMBOLS	
							3 INCH THICK ASPHALT W/GRAVEL BASE
							FILL: HETEROGENEOUS MATERIAL CONSISTING OF LIGHT BROWN FINE TO COARSE SAND AND SILTY SAND W/GRAVEL
				5	SM		
1	C.M.	12 / 15	SAND W/ BENTONITE				SILTY SAND: BROWN, FINE TO COARSE GRAINED W/CLAYEY SILT INCLUSIONS, DAMP, SOME ASPHALT IN SAMPLE OVA = 22 ppm
				10			
					ML		SANDY SILT TO SILT: BROWN, MOIST OVA = 25 ppm
2	C.M.	5 / 17 / 60					
				15			
				20	SW		WELL GRADED SAND: GREY, DAMP OVA = 17 ppm
3	C.M.	14 / 21 / 30					
				25			
				30			SILTY SAND: BROWN, FINE TO MEDIUM GRAINED, DAMP
4	C.M.	14 / 25 / 34			SM		
				35	SW		

Kennedy/Jenks/Chilton

PROJECT	PACIFIC AIRMOTIVE CORPORATION	DATE 8/16/88	BORING B-12
JOB NO	882504.00	BY: M. GIBSON	

Details of Boring and Well Construction

SURFACE ELEVATION: NOT MEASURED

DRILLING METHODS: HOLLOW STEM AUGER 8 INCH DIAMETER

SAMPLING METHODS: 2.5 INCH CALIFORNIA MODIFIED SPLIT SPOON

DRILLER: DATUM EXPLORATION

SAMPLE NUMBER	SAMPLER TYPE	BLOWS/6" INTERVAL	Well Construction	DEPTH IN FEET	USCS	SYMBOLS	
5	C.M.	24/40/60(3)	SAND/W BENTONITE	40	SW		WELL GRADED SAND W/GRAVEL: GREY, DAMP OVA = 10 ppm
6	C.M.	5/6/70		45			SAND: OVA = 2.0 ppm
7	C.M.	45/70(4)		50			SAND: OVA = 3.0 ppm

BOTTOM OF BORING AT 50 FEET
DRIVE SAMPLE TO 51.5 FEET

NOTE: 1. OVA READINGS CORRESPOND TO FIELD HEADSPACE MEASUREMENT. APPROXIMATELY 100 GRAMS OF SOIL WERE PLACED IN A 1 - PINT WIDE MOUTH PLASTIC JAR, THE LID CLOSED, AND THE JAR ALLOWED TO STAND FOR APPROXIMATELY 10 MINUTES AT AMBIENT TEMPERATURE. THE LID WAS THEN REMOVED, THE PROBE QUICKLY INSERTED, AND THE READINGS OBTAINED. OVA READINGS WERE TAKEN AT EVERY DRIVE SAMPLE INTERVAL.

Attachment B to Kennedy/Jenks/Chilton's
letter to Mr. Eugene Fox dated
30 September 1988

ATTACHMENT B

COPIES OF LABORATORY SOIL ANALYSIS REPORTS

Analysis Report

1105

Kennedy/Jenks/Chilton
Laboratory Division
657 Howard Street
San Francisco, California 94105
415-362-6065

For Kennedy/Jenks/Chilton
Attention Noel M. Lerner
Address 3336 Bradshaw Road, Suite 320
Sacramento, CA 95827

Received 8/17/88
Reported 8/26/88

(K/J/C 882504.00)

Lab. No. 885839

Source PAC

Sample I.D.: B11-1
Depth: 7.5 ft

Date Collected 8/16/88 Date Analyzed: 8/20-25/88

Time Collected 0905

Collected by K/J/C

Analysis	Units	Analytical Results	Det. Limit
Petroleum Hydrocarbons (as gasoline)	mg/Kg	<1	1
Petroleum Hydrocarbons (as diesel fuel)	mg/Kg	<1.7	1.7
Petroleum Hydrocarbons (as Stoddard Solvent)	mg/Kg	<2	2

Comments: Analysis of pentane extract by gas chromatography with flame ionization detection, using commercial hydrocarbon samples as comparison standards. Results reported in milligrams per kilogram, wet (as received) weight basis.

Analyst WW, JT

Manager Everett R. Smith

[illegible] sample investigated and is not necessarily indicative of the quality of apparently identical or similar samples. The liability of the laboratory [illegible]

Analysis Report

1105

Kennedy/Jenks/Chilton
Laboratory Division
657 Howard Street
San Francisco, California 94105
415-362-6065

For Kennedy/Jenks/Chilton
Attention Noel M. Lerner
Address 3336 Bradshaw Road, Suite 320
Sacramento, CA 95827

Received 8/17/88
Reported 8/26/88

Quality Control Page
(K/J/C 882504.00)

Lab. No. 885839

Source Sample I.D.: B11-1
Depth: 7.5 ft

PAC

Date Collected 8/16/88 Date Analyzed: 8/20-25/88

Time Collected 0905

Collected by K/J/C

Analysis	Units		Replicate	Analytical Results	Det. Limit
Petroleum Hydrocarbons (as gasoline)	mg/Kg	<1	<1	Spike recovery 103%	1
Petroleum Hydrocarbons (as diesel fuel)	mg/Kg	<1.7	<1.7	Spike recovery 116%	1.7
Petroleum Hydrocarbons (as Stoddard Solvent)	mg/Kg	<2	<2		

Comments: Analysis of pentane extract by gas chrom ization detection, using commercial hydrocarbon samples a Results reported in milligrams per kilogram, wet (as re

Analyst WW, JT Manager

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Analysis Report

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Kennedy/Jenks/Chilton
Laboratory Division
657 Howard Street
San Francisco, California 94105
415-362-6065

For Kennedy/Jenks/Chilton
Attention Noel M. Lerner
Address 3336 Bradshaw Road, Suite 320
Sacramento, CA 95827

Received 8/17/88
Reported 8/26/88

(K/J/C 882504.00)

Lab. No. 885840

Source Sample I.D.: B11-2
Depth: 10 ft

PAC

Date Collected 8/16/88 Date Analyzed: 8/20-25/88

Time Collected 0910

Collected by K/J/C

Analysis	Units	Analytical Results	Det. Limit
Petroleum Hydrocarbons (as gasoline)	mg/Kg	<1	1
Petroleum Hydrocarbons (as diesel fuel)	mg/Kg	<1.7	1.7
Petroleum Hydrocarbons (as Stoddard Solvent)	mg/Kg	<2	2

Comments: Analysis of pentane extract by gas chromatography with flame ionization detection, using commercial hydrocarbon samples as comparison standards. Results reported in milligrams per kilogram, wet (as received) weight basis.

Analyst WH, JT Manager Scott R. Smith

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Analysis Report

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Kennedy/Jenks/Chilton
Laboratory Division
657 Howard Street
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415-362-6065

For Attention Address: Kennedy/Jenks/Chilton
Noel M. Lerner
3336 Bradshaw Road, Suite 320
Sacramento, CA 95827

Received 8/17/88
Reported 8/26/88

(K/J/C 882504.00)

Lab. No. 885841

Source: PAC

Sample I.D.: B11-3
Depth: 20 ft

Date Collected: 8/16/88

Date Analyzed: 8/20-25/88

Time Collected: 0920

Collected by: K/J/C

Analysis	Units	Analytical Results	Det. Limit
Petroleum Hydrocarbons (as gasoline)	mg/Kg	<1	1
Petroleum Hydrocarbons (as diesel fuel)	mg/Kg	<1.7	1.7
Petroleum Hydrocarbons (as Stoddard Solvent)	mg/Kg	<2	2

Comments: Analysis of pentane extract by gas chromatography with flame ionization detection, using commercial hydrocarbon samples as comparison standards. Results reported in milligrams per kilogram, wet (as received) weight basis.

Analyst: [illegible]

Manager: Everett R. Smith

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Lab-2
Rev. 3/88

Analysis Report

1105

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Laboratory Division
657 Howard Street
San Francisco, California 94105
415-362-6065

For Kennedy/Jenks/Chilton
Attention Noel M. Lerner
Address 3336 Bradshaw Road, Suite 320
Sacramento, CA 95827

Received 8/17/88
Reported 8/26/88

(K/J/C 882504.00)

Lab. No. 885842

Source Sample I.D.: B11-4
Depth: 30 ft

PAC

Date Collected 8/16/88 Date Analyzed: 8/20-25/88

Time Collected 0930

Collected by K/J/C

Analysis	Units	Analytical Results	Det. Limit
Petroleum Hydrocarbons (as gasoline)	mg/Kg	<1	1
Petroleum Hydrocarbons (as diesel fuel)	mg/Kg	<1.7	1.7
Petroleum Hydrocarbons (as Stoddard Solvent)	mg/Kg	<2	2

Comments: Analysis of pentane extract by gas chromatography with flame ionization detection, using commercial hydrocarbon samples as comparison standards. Results reported in milligrams per kilogram, wet (as received) weight basis.

Analyst: [illegible]

Manager [illegible]

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Analysis Report

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657 Howard Street
San Francisco, California 94105
415-362-6065

For	Kennedy/Jenks/Chilton	Received	8/17/88
Attention	Noel M. Lerner	Reported	8/26/88
Address	3336 Bradshaw Road, Suite 320 Sacramento, CA 95827		(K/J/C 882504.00)

Lab. No.	885843		
Source PAC	Sample I.D.: B11-5 Depth: 42 ft		
Date Collected	8/16/88	Date Analyzed:	8/20-25/88
Time Collected	0950		
Collected by	K/J/C		

Analysis	Units	Analytical Results	Det. Limit
Petroleum Hydrocarbons (as gasoline)	mg/Kg	<1	1
Petroleum Hydrocarbons (as diesel fuel)	mg/Kg	<1.7	1.7
Petroleum Hydrocarbons (as Stoddard Solvent)	mg/Kg	<2	2

Comments: Analysis of pentane extract by gas chromatography with flame ionization detection, using commercial hydrocarbon samples as comparison standards. Results reported in milligrams per kilogram, wet (as received) weight basis.

Analyst WW. JT

Manager Everett R. Smith

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Analysis Report

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Laboratory Division
657 Howard Street
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415-362-6065

For Attention Address: Kennedy/Jenks/Chilton
Noel M. Lerner
3336 Bradshaw Road, Suite 320
Sacramento, CA 95827

Received 8/17/88
Reported 8/26/88

(K/J/C 882504.00)

Lab. No. 885844

Source: PAC

Sample I.D.: B12-1
Depth: 7.5 ft

Date Collected: 8/16/88
Date Analyzed: 8/20-25/88

Time Collected: 1030

Collected by: K/J/C

Analysis	Units	Analytical Results	Det. Limit
Petroleum Hydrocarbons (as gasoline)	mg/Kg	<1	1
Petroleum Hydrocarbons (as diesel fuel)	mg/Kg	<1.7	1.7
Petroleum Hydrocarbons (as Stoddard Solvent)	mg/Kg	<2	2

Comments: Analysis of pentane extract by gas chromatography with flame ionization detection, using commercial hydrocarbon samples as comparison standards. Results reported in milligrams per kilogram, wet (as received) weight basis.

Analyst: MW, JT

Manager: Robert A. Smith

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San Francisco, California 94105
415-362-6065

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Noel M. Lerner
3336 Bradshaw Road, Suite 320
Sacramento, CA 95827

Received 8/17/88
Reported 8/26/88

(K/J/C 882504.00)

Lab. No. 885845

Source: PAC

Sample I.D.: B12-2
Depth: 12 ft

Date Collected: 8/16/88

Date Analyzed: 8/20-25/88

Time Collected: 1040

Collected by: K/J/C

Analysis	Units	Analytical Results	Det. Limit
Petroleum Hydrocarbons (as gasoline)	mg/Kg	<1	1
Petroleum Hydrocarbons (as diesel fuel)	mg/Kg	<1.7	1.7
Petroleum Hydrocarbons (as Stoddard Solvent)	mg/Kg	<2	2

Comments: Analysis of pentane extract by gas chromatography with flame ionization detection, using commercial hydrocarbon samples as comparison standards. Results reported in milligrams per kilogram, wet (as received) weight basis.

Analyst: WU, JT

Manager: Brett R. Smith

Analysis Report

1105

Kennedy/Jenks/Chilton
Laboratory Division
657 Howard Street
San Francisco, California 94105
415-362-6065

For Kennedy/Jenks/Chilton
Attention Noel M. Lerner
Address 3336 Bradshaw Road, Suite 320
Sacramento, CA 95827

Received 8/17/88
Reported 8/26/88

(K/J/C 882504.00)

Lab. No. 885846

Source Sample I.D.: 812-3
Depth: 20 ft

PAC

Date Collected 8/16/88 Date Analyzed: 8/20-25/88

Time Collected 1045

Collected by K/J/C

Analysis	Units	Analytical Results	Det. Limit
Petroleum Hydrocarbons (as gasoline)	mg/Kg	<1	1
Petroleum Hydrocarbons (as diesel fuel)	mg/Kg	<1.7	1.7
Petroleum Hydrocarbons (as Stoddard Solvent)	mg/Kg	<2	2

Comments: Analysis of pentane extract by gas chromatography with flame ionization detection, using commercial hydrocarbon samples as comparison standards. Results reported in milligrams per kilogram, wet (as received) weight basis.

Analyst WH, JT

Manager Everett R. Smith

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Analysis Report

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Laboratory Division
657 Howard Street
San Francisco, California 94105
415-362-6065

For Kennedy/Jenks/Chilton
Attention Noel M. Lerner
Address 3336 Bradshaw Road, Suite 320
Sacramento, CA 95827

Received 8/17/88
Reported 8/26/88

(K/J/C 882504.00)

Lab. No. 885847

Source Sample I.D.: B12-4
Depth: 32 ft

PAC

Date Collected 8/16/88 Date Analyzed: 8/20-25/88

Time Collected 1050

Collected by K/J/C

Analysis	Units	Analytical Results	Det. Limit
Petroleum Hydrocarbons (as gasoline)	mg/Kg	<1	1
Petroleum Hydrocarbons (as diesel fuel)	mg/Kg	<1.7	1.7
Petroleum Hydrocarbons (as Stoddard Solvent)	mg/Kg	<2	2

Comments: Analysis of pentane extract by gas chromatography with flame ionization detection, using commercial hydrocarbon samples as comparison standards. Results reported in milligrams per kilogram, wet (as received) weight basis.

Analyst WW, JT

Manager Brett R. Smith

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Analysis Report

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Laboratory Division
657 Howard Street
San Francisco, California 94105
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For Kennedy/Jenks/Chilton
Attention Noel M. Lerner
Address 3336 Bradshaw Road, Suite 320
Sacramento, CA 95827

Received 8/17/88
Reported 8/26/88

(K/J/C 882504.00)

Lab. No. 885848

Source Sample I.D.: B12-5
Depth: 40 ft

PAC

Date Collected 8/16/88 Date Analyzed: 8/20-25/88

Time Collected 1110

Collected by K/J/C

Analysis	Units	Analytical Results	Det. Limit
Petroleum Hydrocarbons (as gasoline)	mg/Kg	<1	1
Petroleum Hydrocarbons (as diesel fuel)	mg/Kg	<1.7	1.7
Petroleum Hydrocarbons (as Stoddard Solvent)	mg/Kg	<2	2

Comments: Analysis of pentane extract by gas chromatography with flame ionization detection, using commercial hydrocarbon samples as comparison standards. Results reported in milligrams per kilogram, wet (as received) weight basis.

Analyst WW, JT

Manager Lenett R. Smith

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Analysis Report

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Noel M. Lerner
3336 Bradshaw Road, Suite 320
Sacramento, CA 95827

Received 8/17/88
Reported 8/26/88

(K/J/C 882504.00)

Lab. No.	885849
Source	Sample I.D.: B12-6 Depth: 45 ft
PAC	
Date Collected	8/16/88
Date Analyzed:	8/20-25/88
Time Collected	1120
Collected by	K/J/C

Analysis	Units	Analytical Results	Det. Limit
Petroleum Hydrocarbons (as gasoline)	mg/Kg	<1	1
Petroleum Hydrocarbons (as diesel fuel)	mg/Kg	<1.7	1.7
Petroleum Hydrocarbons (as Stoddard Solvent)	mg/Kg	<2	2

Comments: Analysis of pentane extract by gas chromatography with flame ionization detection, using commercial hydrocarbon samples as comparison standards. Results reported in milligrams per kilogram, wet (as received) weight basis.

Analyst: WW, JT

Manager: Lenneth R. Smith

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Analysis Report

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San Francisco, California 94105
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For Attention Address: Kennedy/Jenks/Chilton
Noel M. Lerner
3336 Bradshaw Road, Suite 320
Sacramento, CA 95827

Received 8/17/88
Reported 8/26/88

(K/J/C 882504.00)

Lab. No.	885850
Source	Sample I.D.: B12-7 Depth: 50 ft
PAC	
Date Collected	8/16/88
Date Analyzed:	8/20-25/88
Time Collected	1130
Collected by	K/J/C

Analysis	Units	Analytical Results	Det. Limit
Petroleum Hydrocarbons (as gasoline)	mg/Kg	<1	1
Petroleum Hydrocarbons (as diesel fuel)	mg/Kg	<1.7	1.7
Petroleum Hydrocarbons (as Stoddard Solvent)	mg/Kg	<2	2

Comments: Analysis of pentane extract by gas chromatography with flame ionization detection, using commercial hydrocarbon samples as comparison standards. Results reported in milligrams per kilogram, wet (as received) weight basis.

Analyst: [illegible] Manager: Brett R. Smith

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Analysis Report

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Laboratory Division
657 Howard Street
San Francisco, California 94105
415-362-6065

For Kennedy/Jenks/Chilton
Attention Noel M. Lerner
Address 3336 Bradshaw Road, Suite 320
Sacramento, CA 95827

Received 8/17/88
Reported 8/26/88
Quality Control Page
(K/J/C 882504.00)

Lab. No. 885850

Source Sample I.D.: B12-7
Depth: 50 ft
PAC

Date Collected 8/16/88 Date Analyzed: 8/20-25/88

Time Collected 1130

Collected by K/J/C

Analysis	Units		Replicate	Analytical Results	Det. Limit
Petroleum Hydrocarbons (as gasoline)	mg/Kg	<1	<1	Spike recovery 100%	1
Petroleum Hydrocarbons (as diesel fuel)	mg/Kg	<1.7	<1.7	Spike recovery 111%	1.7
Petroleum Hydrocarbons (as Stoddard Solvent)	mg/Kg	<2	<2		2

Comments: Analysis of pentane extract by gas chromatography with flame ionization detection, using commercial hydrocarbon samples as comparison standards. Results reported in milligrams per kilogram, wet (as received) weight basis.

Analyst WW, JT

Manager Lenett R. Smith

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Analysis Report

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Kennedy/Jenks/Chilton
Laboratory Division
657 Howard Street
San Francisco, California 94105
415-362-6065

For Attention Address: Kennedy/Jenks/Chilton
Noel M. Lerner
3336 Bradshaw Road, Suite 320
Sacramento, CA 95827

Received -
Reported 8/26/88

(K/J/C 882504.00)

Lab. No. Method Spike

Source Sample I.D.: Sand

Date Collected -

Date Analyzed: 8/20-25/88

Time Collected -

Collected by K/J/C

Analysis	Units	Analytical Results
Petroleum Hydrocarbons (as gasoline)	Spike recovery 100%	
Petroleum Hydrocarbons (as diesel fuel)	Spike recovery 117%	

Comments: Analysis of pentane extract by gas chromatography with flame ionization detection, using commercial hydrocarbon samples as comparison standards.

Analyst WW, JT

Manager Everett R. Smith

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Analysis Report

1105

Kennedy/Jenks/Chilton
Laboratory Division
657 Howard Street
San Francisco, California 94105
415-362-6065

For Attention: Kennedy/Jenks/Chilton
Noel M. Lerner
Address: 3336 Bradshaw Road, Suite 320
Sacramento, CA 95827

Received: -
Reported: 8/26/88

(K/J/C 882504.00)

Lab. No. Method Blank

Source Sample I.D.: Sand

Date Collected -

Date Analyzed: 8/20-25/88 (?)

Time Collected -

Collected by K/J/C

Analysis	Units		Analytical Results	Det. Limit
Petroleum Hydrocarbons (as gasoline)	mg/Kg	<1		1
Petroleum Hydrocarbons (as diesel fuel)	mg/Kg	<1.7		1.7
Petroleum Hydrocarbons (as Stoddard Solvent)	mg/Kg	<2		2

Comments: Analysis of pentane extract by gas chromatography with flame ionization detection, using commercial hydrocarbon samples as comparison standards. Results reported in milligrams per kilogram, wet (as received) weight basis.

Analyst: WL, JT

Manager: Lynett R. Smith

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Lab-2
Rev. 7/88

GC/MS Priority Pollutant Analysis

Kennedy/Jenks/Chilton, Laboratory Division
657 Howard Street
San Francisco, CA 94105
415-362-6065

For Kennedy/Jenks/Chilton
Attention Noel M. Lerner
Address 3336 Bradshaw Road, Suite 320
Sacramento, CA 95827

1105

Received 8/17/88
Reported 8/26/88
(K/J/C 882504.00)

Lab. No. 885839

Source Sample I.D.: Soil- B11-1
Depth: 7.5 ft

PAC

Date Collected 8/16/88 Date Analyzed: 8/18/88

Time Collected 0905

Collected by K/J/C

PRIORITY POLLUTANT COMPOUNDS

Volatiles	ug/Kg(ppb)	Det. Lim.	Volatiles	ug/Kg(ppb)	Det. Lim.
chloromethane	<10	10	bromodichloromethane	<5	5
bromomethane	<10	10	1,2-dichloropropane	<5	5
vinyl chloride	<10	10	trans-1,3-dichloropropylene	<5	5
chloroethane	<10	10	trichloroethylene	<5	5
methylene chloride	<5	5	benzene	<5	5
acrolein	<30	30	dibromochloromethane	<5	5
acrylonitrile	<10	10	cis-1,3-dichloropropylene	<5	5
trichlorofluoromethane	<5	5	1,1,2-trichloroethane	<5	5
1,1-dichloroethylene	<5	5	2-chloroethylvinyl ether	<5	5
1,1-dichloroethane	<5	5	bromoform	<5	5
1,2-dichloroethylene	<5	5	tetrachloroethylene	180	5
chloroform	<5	5	1,1,2,2-tetrachloroethane	<5	5
1,2-dichloroethane	<5	5	toluene	57	5
1,1,1-trichloroethane	<5	5	chlorobenzene	<5	5
carbon tetrachloride	<5	5	ethylbenzene	<5	5

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	<10	10	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-Trichloro-			styrene	<5	5
1,2,2-trifluoroethane	<5	5	xylenes	<5	5
2-butanone	<10	10			

Comments: Analysis by U.S. EPA Method 8240, reported in micrograms per kilogram, wet (as received) weight basis.

Analyst DC, WW Manager Everett R. Smith

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Lab-11 1/86

GC/MS Priority Pollutant Analysis

Kennedy/Jenks/Chilton, Laboratory Division
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San Francisco, CA 94105
415-362-6065

For Kennedy/Jenks/Chilton
Attention Noel M. Lerner
Address 3336 Bradshaw Road, Suite 320
Sacramento, CA 95827

1105

Received 8/17/88
Reported 8/26/88
(K/J/C 882504.00)

Lab. No. 885840

Source Sample I.D.: Soil- B11-2
Depth: 10 ft

PAC

Date Collected 8/16/88 Date Analyzed: 8/19/88

Time Collected 0910

Collected by K/J/C

PRIORITY POLLUTANT COMPOUNDS

Volatiles	ug/Kg(ppb)	Det. Lim.	Volatiles	ug/Kg(ppb)	Det. Lim.
chloromethane	<10	10	bromodichloromethane	<5	5
bromomethane	<10	10	1,2-dichloropropane	<5	5
vinyl chloride	<10	10	trans-1,3-dichloropropylene	<5	5
chloroethane	<10	10	trichloroethylene	<5	5
methylene chloride	<5	5	benzene	<5	5
acrolein	<30	30	dibromochloromethane	<5	5
acrylonitrile	<10	10	cis-1,3-dichloropropylene	<5	5
trichlorofluoromethane	<5	5	1,1,2-trichloroethane	<5	5
1,1-dichloroethylene	<5	5	2-chloroethylvinyl ether	<5	5
1,1-dichloroethane	<5	5	bromoform	<5	5
1,2-dichloroethylene	<5	5	tetrachloroethylene	12	5
chloroform	<5	5	1,1,2,2-tetrachloroethane	<5	5
1,2-dichloroethane	<5	5	toluene	12	5
1,1,1-trichloroethane	<5	5	chlorobenzene	<5	5
carbon tetrachloride	<5	5	ethylbenzene	<5	5

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	<10	10	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-Trichloro-			styrene	<5	5
1,2,2-trifluoroethane	<5	5	xylenes	<5	5
2-butanone	<10	10			

Comments: Analysis by U.S. EPA Method 8240, reported in micrograms per kilogram, wet (as received) weight basis.

Analyst DC, WW

Manager Everett R. Smith

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Lab-R 1/86

GC/MS Priority Pollutant Analysis

Kennedy/Jenks/Chilton, Laboratory Division
657 Howard Street
San Francisco, CA 94105
415-362-6065

1105

For Kennedy/Jenks/Chilton
Attention Noel M. Lerner
Address 3336 Bradshaw Road, Suite 320
Sacramento, CA 95827

Received 8/17/88
Reported 8/26/88
(K/J/C 882504.00)

Lab. No. 885841

Source Sample I.D.: Soil- B11-3
Depth: 20 ft

PAC

Date Collected 8/16/88 Date Analyzed: 8/19/88

Time Collected 0920

Collected by K/J/C

PRIORITY POLLUTANT COMPOUNDS

Volatiles	ug/Kg(ppb)	Det. Lim.	Volatiles	ug/Kg(ppb)	Det. Lim.
chloromethane	<10	10	bromodichloromethane	<5	5
bromomethane	<10	10	1,2-dichloropropane	<5	5
vinyl chloride	<10	10	trans-1,3-dichloropropylene	<5	5
chloroethane	<10	10	trichloroethylene	<5	5
methylene chloride	<5	5	benzene	<5	5
acrolein	<30	30	dibromochloromethane	<5	5
acrylonitrile	<10	10	cis-1,3-dichloropropylene	<5	5
trichlorofluoromethane	<5	5	1,1,2-trichloroethane	<5	5
1,1-dichloroethylene	<5	5	2-chloroethylvinyl ether	<5	5
1,1-dichloroethane	<5	5	bromoform	<5	5
1,2-dichloroethylene	<5	5	tetrachloroethylene	<5	5
chloroform	<5	5	1,1,2,2-tetrachloroethane	<5	5
1,2-dichloroethane	<5	5	toluene	9	5
1,1,1-trichloroethane	<5	5	chlorobenzene	<5	5
carbon tetrachloride	<5	5	ethylbenzene	<5	5

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	<10	10	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-Trichloro-1,2,2-trifluoroethane	<5	5	styrene	<5	5
			xylenes	<5	5
2-butanone	<10	10			

Comments: Analysis by U.S. EPA Method 8240, reported in micrograms per kilogram, wet (as received) weight basis.

Analyst DC, WW Manager Leverett R. Smith

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Lab-11 1/88

GC/MS Priority Pollutant Analysis

Kennedy/Jenks/Chilton, Laboratory Division
657 Howard Street
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For Kennedy/Jenks/Chilton
Attention Noel M. Lerner
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Sacramento, CA 95827

Received 8/17/88
Reported 8/26/88
(K/J/C 882504.00)

Lab. No. 885842

Source Sample I.D.: Soil- B11-4
Depth: 30 ft

PAC

Date Collected 8/16/88 Date Analyzed: 8/19/88

Time Collected 0930

Collected by K/J/C

PRIORITY POLLUTANT COMPOUNDS

Volatiles	ug/Kg(ppb)	Det. Lim.	Volatiles	ug/Kg(ppb)	Det. Lim.
chloromethane	<10	10	bromodichloromethane	<5	5
bromomethane	<10	10	1,2-dichloropropane	<5	5
vinyl chloride	<10	10	trans-1,3-dichloropropylene	<5	5
chloroethane	<10	10	trichloroethylene	<5	5
methylene chloride	<5	5	benzene	<5	5
acrolein	<30	30	dibromochloromethane	<5	5
acrylonitrile	<10	10	cis-1,3-dichloropropylene	<5	5
trichlorofluoromethane	<5	5	1,1,2-trichloroethane	<5	5
1,1-dichloroethylene	<5	5	2-chloroethylvinyl ether	<5	5
1,1-dichloroethane	<5	5	bromoform	<5	5
1,2-dichloroethylene	<5	5	tetrachloroethylene	<5	5
chloroform	<5	5	1,1,2,2-tetrachloroethane	<5	5
1,2-dichloroethane	<5	5	toluene	18	5
1,1,1-trichloroethane	<5	5	chlorobenzene	<5	5
carbon tetrachloride	<5	5	ethylbenzene	<5	5

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	<10	10	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-Trichloro-1,2,2-trifluoroethane	<5	5	styrene	<5	5
			xylenes	<5	5
2-butanone	<10	10			

Comments: Analysis by U.S. EPA Method 8240, reported in micrograms per kilogram, wet (as received) weight basis.

Analyst DC, WW Manager Everett R. Smith

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GC/MS Priority Pollutant Analysis

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For Kennedy/Jenks/Chilton
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Received 8/17/88
Reported 8/26/88
(K/J/C 882504.00)

Lab. No. 885843

Source Sample I.D.: Soil- 811-5
Depth: 42 ft

PAC

Date Collected 8/16/88 Date Analyzed: 8/19/88

Time Collected 0950

Collected by K/J/C

PRIORITY POLLUTANT COMPOUNDS

Volatiles	ug/Kg(ppb)	Det. Lim.	Volatiles	ug/Kg(ppb)	Det. Lim.
chloromethane	<10	10	bromodichloromethane	<5	5
bromomethane	<10	10	1,2-dichloropropane	<5	5
vinyl chloride	<10	10	trans-1,3-dichloropropylene	<5	5
chloroethane	<10	10	trichloroethylene	<5	5
methylene chloride	<5	5	benzene	<5	5
acrolein	<30	30	dibromochloromethane	<5	5
acrylonitrile	<10	10	cis-1,3-dichloropropylene	<5	5
trichlorofluoromethane	<5	5	1,1,2-trichloroethane	<5	5
1,1-dichloroethylene	<5	5	2-chloroethylvinyl ether	<5	5
1,1-dichloroethane	<5	5	bromoform	<5	5
1,2-dichloroethylene	<5	5	tetrachloroethylene	<5	5
chloroform	<5	5	1,1,2,2-tetrachloroethane	<5	5
1,2-dichloroethane	<5	5	toluene	12	5
1,1,1-trichloroethane	<5	5	chlorobenzene	<5	5
carbon tetrachloride	<5	5	ethylbenzene	<5	5

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	<10	10	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-Trichloro-1,2,2-trifluoroethane	<5	5	styrene	<5	5
			xylenes	<5	5
2-butanone	<10	10			

Comments: Analysis by U.S. EPA Method 8240, reported in micrograms per kilogram, wet (as received) weight basis.

Analyst DC, WW

Manager Everett R. Smith

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Lab-11 1-86

GC/MS Priority Pollutant Analysis

Kennedy/Jenks/Chilton, Laboratory Division
657 Howard Street
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For Kennedy/Jenks/Chilton
Attention Noel M. Lerner
Address 3336 Bradshaw Road, Suite 320
Sacramento, CA 95827

1105

Received 8/17/88
Reported 8/26/88
(K/J/C 882504.00)

Lab. No. 885844

Source Sample I.D.: Soil- B12-1
Depth: 7.5 ft

PAC

Date Collected 8/16/88 Date Analyzed: 8/19/88

Time Collected 1030

Collected by K/J/C

PRIORITY POLLUTANT COMPOUNDS

Volatiles	ug/Kg(ppb)	Det. Lim.	Volatiles	ug/Kg(ppb)	Det. Lim.
chloromethane	<10	10	bromodichloromethane	<5	5
bromomethane	<10	10	1,2-dichloropropane	<5	5
vinyl chloride	<10	10	trans-1,3-dichloropropylene	<5	5
chloroethane	<10	10	trichloroethylene	<5	5
methylene chloride	<5	5	benzene	<5	5
acrolein	<30	30	dibromochloromethane	<5	5
acrylonitrile	<10	10	cis-1,3-dichloropropylene	<5	5
trichlorofluoromethane	<5	5	1,1,2-trichloroethane	<5	5
1,1-dichloroethylene	<5	5	2-chloroethylvinyl ether	<5	5
1,1-dichloroethane	<5	5	bromoform	<5	5
1,2-dichloroethylene	<5	5	tetrachloroethylene	12	5
chloroform	<5	5	1,1,2,2-tetrachloroethane	<5	5
1,2-dichloroethane	<5	5	toluene	33	5
1,1,1-trichloroethane	<5	5	chlorobenzene	<5	5
carbon tetrachloride	<5	5	ethylbenzene	<5	5

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	<10	10	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-Trichloro-			styrene	<5	5
1,2,2-trifluoroethane	<5	5	xylenes	<5	5
2-butanone	<10	10			

Comments: Analysis by U.S. EPA Method 8240, reported in micrograms per kilogram, wet (as received) weight basis.

Analyst DC, WW Manager Everett R. Smith

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Lab 11 1/86

GC/MS Priority Pollutant Analysis

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Received 8/17/88
Reported 8/26/88
(K/J/C 882504.00)

Lab. No. 885845

Source Sample I.D.: Soil- B12-2
Depth: 12 ft

PAC

Date Collected 8/16/88 Date Analyzed: 8/19/88

Time Collected 1040

Collected by K/J/C

PRIORITY POLLUTANT COMPOUNDS

Volatiles	ug/Kg(ppb)	Det. Lim.	Volatiles	ug/Kg(ppb)	Det. Lim.
chloromethane	<10	10	bromodichloromethane	<5	5
bromomethane	<10	10	1,2-dichloropropane	<5	5
vinyl chloride	<10	10	trans-1,3-dichloropropylene	<5	5
chloroethane	<10	10	trichloroethylene	11	5
methylene chloride	<5	5	benzene	<5	5
acrolein	<30	30	dibromochloromethane	<5	5
acrylonitrile	<10	10	cis-1,3-dichloropropylene	<5	5
trichlorofluoromethane	<5	5	1,1,2-trichloroethane	<5	5
1,1-dichloroethylene	<5	5	2-chloroethylvinyl ether	<5	5
1,1-dichloroethane	<5	5	bromoform	<5	5
1,2-dichloroethylene	<5	5	tetrachloroethylene	380	5
chloroform	<5	5	1,1,2,2-tetrachloroethane	<5	5
1,2-dichloroethane	<5	5	toluene	95	5
1,1,1-trichloroethane	<5	5	chlorobenzene	<5	5
carbon tetrachloride	<5	5	ethylbenzene	<5	5

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	<10	10	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-Trichloro-1,2,2-trifluoroethane	<5	5	styrene	<5	5
2-butanone	<10	10	xylenes	<5	5

Comments: Analysis by U.S. EPA Method 8240, reported in micrograms per kilogram, wet (as received) weight basis.

Analyst DC, WW

Manager Leverett R. Smith

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Lab-11 1/86

GC/MS Priority Pollutant Analysis

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Sacramento, CA 95827

Received 8/17/88
Reported 8/26/88
(K/J/C 882504.00)

Lab. No. 885846

Source Sample I.D.: Soil- B12-3
Depth: 20 ft

PAC

Date Collected 8/16/88 Date Analyzed: 8/19/88

Time Collected 1045

Collected by K/J/C

PRIORITY POLLUTANT COMPOUNDS

Volatiles	ug/Kg(ppb)	Det. Lim.	Volatiles	ug/Kg(ppb)	Det. Lim.
chloromethane	<10	10	bromodichloromethane	<5	5
bromomethane	<10	10	1,2-dichloropropane	<5	5
vinyl chloride	<10	10	trans-1,3-dichloropropylene	<5	5
chloroethane	<10	10	trichloroethylene	<5	5
methylene chloride	<5	5	benzene	<5	5
acrolein	<30	30	dibromochloromethane	<5	5
acrylonitrile	<10	10	cis-1,3-dichloropropylene	<5	5
trichlorofluoromethane	<5	5	1,1,2-trichloroethane	<5	5
1,1-dichloroethylene	<5	5	2-chloroethylvinyl ether	<5	5
1,1-dichloroethane	<5	5	bromoform	<5	5
1,2-dichloroethylene	<5	5	tetrachloroethylene	<5	5
chloroform	<5	5	1,1,2,2-tetrachloroethane	<5	5
1,2-dichloroethane	<5	5	toluene	7	5
1,1,1-trichloroethane	<5	5	chlorobenzene	<5	5
carbon tetrachloride	<5	5	ethylbenzene	<5	5

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	<10	10	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-Trichloro-1,2,2-trifluoroethane	<5	5	styrene	<5	5
2-butanone	<10	10	xylenes	<5	5

Comments: Analysis by U.S. EPA Method 8240, reported in micrograms per kilogram, wet (as received) weight basis.

Analyst DC, WW

Manager Everett R. Smith

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Lab-1 1/86

GC/MS Priority Pollutant Analysis

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657 Howard Street
San Francisco, CA 94105
415-362-6065

For Kennedy/Jenks/Chilton
Attention Noel M. Lerner
Address 3336 Bradshaw Road, Suite 320
Sacramento, CA 95827

1105

Received 8/17/88
Reported 8/26/88
(K/J/C 882504.00)

Lab. No. 885847

Source Sample I.D.: Soil- B12-4
Depth: 32 ft

PAC

Date Collected 8/16/88 Date Analyzed: 8/20/88

Time Collected 1050

Collected by K/J/C

PRIORITY POLLUTANT COMPOUNDS

Volatiles	ug/Kg(ppb)	Det. Lim.	Volatiles	ug/Kg(ppb)	Det. Lim.
chloromethane	<10	10	bromodichloromethane	<5	5
bromomethane	<10	10	1,2-dichloropropane	<5	5
vinyl chloride	<10	10	trans-1,3-dichloropropylene	<5	5
chloroethane	<10	10	trichloroethylene	<5	5
methylene chloride	<5	5	benzene	<5	5
acrolein	<30	30	dibromochloromethane	<5	5
acrylonitrile	<10	10	cis-1,3-dichloropropylene	<5	5
trichlorofluoromethane	<5	5	1,1,2-trichloroethane	<5	5
1,1-dichloroethylene	<5	5	2-chloroethylvinyl ether	<5	5
1,1-dichloroethane	<5	5	bromoform	<5	5
1,2-dichloroethylene	<5	5	tetrachloroethylene	<5	5
chloroform	<5	5	1,1,2,2-tetrachloroethane	<5	5
1,2-dichloroethane	<5	5	toluene	16	5
1,1,1-trichloroethane	<5	5	chlorobenzene	<5	5
carbon tetrachloride	<5	5	ethylbenzene	<5	5

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	<10	10	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-Trichloro-			styrene	<5	5
1,2,2-trifluoroethane	<5	5	xylenes	<5	5
2-butanone	<10	10			

Comments: Analysis by U.S. EPA Method 8240, reported in micrograms per kilogram, wet (as received) weight basis.

Analyst DC, WW

Manager Everett R. Smith

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Lab-11 '86

GC/MS Priority Pollutant Analysis

Kennedy/Jenks/Chilton, Laboratory Division
657 Howard Street
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For Kennedy/Jenks/Chilton
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Address 3336 Bradshaw Road, Suite 320
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7105

Received 8/17/88
Reported 8/26/88
(K/J/C 882504.00)

Lab. No. 885848

Source Sample I.D.: Soil- B12-5
Depth: 40 ft

PAC

Date Collected 8/16/88 Date Analyzed: 8/20/88

Time Collected 1110

Collected by K/J/C

PRIORITY POLLUTANT COMPOUNDS

Volatiles	ug/Kg(ppb)	Det. Lim.	Volatiles	ug/Kg(ppb)	Det. Lim.
chloromethane	<10	10	bromodichloromethane	<5	5
bromomethane	<10	10	1,2-dichloropropane	<5	5
vinyl chloride	<10	10	trans-1,3-dichloropropylene	<5	5
chloroethane	<10	10	trichloroethylene	<5	5
methylene chloride	<5	5	benzene	<5	5
acrolein	<30	30	dibromochloromethane	<5	5
acrylonitrile	<10	10	cis-1,3-dichloropropylene	<5	5
trichlorofluoromethane	<5	5	1,1,2-trichloroethane	<5	5
1,1-dichloroethylene	<5	5	2-chloroethylvinyl ether	<5	5
1,1-dichloroethane	<5	5	bromoform	<5	5
1,2-dichloroethylene	<5	5	tetrachloroethylene	<5	5
chloroform	<5	5	1,1,2,2-tetrachloroethane	<5	5
1,2-dichloroethane	<5	5	toluene	18	5
1,1,1-trichloroethane	<5	5	chlorobenzene	<5	5
carbon tetrachloride	<5	5	ethylbenzene	<5	5

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	<10	10	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-Trichloro-1,2,2-trifluoroethane	<5	5	styrene	<5	5
2-butanone	<10	10	xylenes	<5	5

Comments: Analysis by U.S. EPA Method 8240, reported in micrograms per kilogram, wet (as received) weight basis.

Analyst DC, WW

Manager Everett R. Smith

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GC/MS Priority Pollutant Analysis

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657 Howard Street
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Attention Noel M. Lerner
Address 3336 Bradshaw Road, Suite 320
Sacramento, CA 95827

Received 8/17/88
Reported 8/26/88
(K/J/C 882504.00)

Lab. No. 885849

Source Sample I.D.: Soil- B12-6
Depth: 45 ft
PAC

Date Collected 8/16/88 Date Analyzed: 8/20/88

Time Collected 1120

Collected by K/J/C

PRIORITY POLLUTANT COMPOUNDS

Volatiles	ug/Kg(ppb)	Det. Lim.	Volatiles	ug/Kg(ppb)	Det. Lim.
chloromethane	<10	10	bromodichloromethane	<5	5
bromomethane	<10	10	1,2-dichloropropane	<5	5
vinyl chloride	<10	10	trans-1,3-dichloropropylene	<5	5
chloroethane	<10	10	trichloroethylene	<5	5
methylene chloride	<5	5	benzene	<5	5
acrolein	<30	30	dibromochloromethane	<5	5
acrylonitrile	<10	10	cis-1,3-dichloropropylene	<5	5
trichlorofluoromethane	<5	5	1,1,2-trichloroethane	<5	5
1,1-dichloroethylene	<5	5	2-chloroethylvinyl ether	<5	5
1,1-dichloroethane	<5	5	bromoform	<5	5
1,2-dichloroethylene	<5	5	tetrachloroethylene	<5	5
chloroform	<5	5	1,1,2,2-tetrachloroethane	<5	5
1,2-dichloroethane	<5	5	toluene	20	5
1,1,1-trichloroethane	<5	5	chlorobenzene	<5	5
carbon tetrachloride	<5	5	ethylbenzene	<5	5

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	<10	10	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-Trichloro-1,2,2-trifluoroethane	<5	5	styrene	<5	5
			xylenes	<5	5
2-butanone	<10	10			

Comments: Analysis by U.S. EPA Method 8240, reported in micrograms per kilogram, wet (as received) weight basis.

Analyst DC, WW Manager Everett R. Smith

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Lab 11 1/86

GC/MS Priority Pollutant Analysis

Kennedy/Jenks/Chilton, Laboratory Division
657 Howard Street
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7105

For Kennedy/Jenks/Chilton
Attention Noel M. Lerner
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Sacramento, CA 95827

Received 8/17/88
Reported 8/26/88
(K/J/C 882504.00)

Lab. No. 885850

Source Sample I.D.: Soil- B12-7
Depth: 50 ft

PAC

Date Collected 8/16/88 Date Analyzed: 8/20/88

Time Collected 1130

Collected by K/J/C

PRIORITY POLLUTANT COMPOUNDS

Volatiles	ug/Kg(ppb)	Det. Lim.	Volatiles	ug/Kg(ppb)	Det. Lim.
chloromethane	<10	10	bromodichloromethane	<5	5
bromomethane	<10	10	1,2-dichloropropane	<5	5
vinyl chloride	<10	10	trans-1,3-dichloropropylene	<5	5
chloroethane	<10	10	trichloroethylene	<5	5
methylene chloride	<5	5	benzene	<5	5
acrolein	<30	30	dibromochloromethane	<5	5
acrylonitrile	<10	10	cis-1,3-dichloropropylene	<5	5
trichlorofluoromethane	<5	5	1,1,2-trichloroethane	<5	5
1,1-dichloroethylene	<5	5	2-chloroethylvinyl ether	<5	5
1,1-dichloroethane	<5	5	bromoform	<5	5
1,2-dichloroethylene	<5	5	tetrachloroethylene	<5	5
chloroform	<5	5	1,1,2,2-tetrachloroethane	<5	5
1,2-dichloroethane	<5	5	toluene	7	5
1,1,1-trichloroethane	<5	5	chlorobenzene	<5	5
carbon tetrachloride	<5	5	ethylbenzene	<5	5

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	<10	10	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-Trichloro-1,2,2-trifluoroethane	<5	5	styrene	<5	5
			xylenes	<5	5
2-butanone	<10	10			

Comments: Analysis by U.S. EPA Method 8240, reported in micrograms per kilogram, wet (as received) weight basis.

Analyst DC, WW

Manager Leverett R. Smith

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Lab-11 1.86

GC/MS Priority Pollutant Analysis

Kennedy/Jenks/Chilton, Laboratory Division
657 Howard Street
San Francisco, CA 94105
415-362-6065

For Kennedy/Jenks/Chilton
Attention Noel M. Lerner
Address 3336 Bradshaw Road, Suite 320
Sacramento, CA 95827

1105

Received -
Reported 8/26/88
(K/J/C 882504.00)

Lab. No. Method Blank

Source Sample I.D.: Sand

Date Collected - Date Analyzed: 8/19/88

Time Collected -

Collected by K/J/C

PRIORITY POLLUTANT COMPOUNDS

Volatiles	ug/Kg(ppb)	Det. Lim.	Volatiles	ug/Kg(ppb)	Det. Lim.
chloromethane	<10	10	bromodichloromethane	<5	5
bromomethane	<10	10	1,2-dichloropropane	<5	5
vinyl chloride	<10	10	trans-1,3-dichloropropylene	<5	5
chloroethane	<10	10	trichloroethylene	<5	5
methylene chloride	<5	5	benzene	<5	5
acrolein	<30	30	dibromochloromethane	<5	5
acrylonitrile	<10	10	cis-1,3-dichloropropylene	<5	5
trichlorofluoromethane	<5	5	1,1,2-trichloroethane	<5	5
1,1-dichloroethylene	<5	5	2-chloroethylvinyl ether	<5	5
1,1-dichloroethane	<5	5	bromoform	<5	5
1,2-dichloroethylene	<5	5	tetrachloroethylene	<5	5
chloroform	<5	5	1,1,2,2-tetrachloroethane	<5	5
1,2-dichloroethane	<5	5	toluene	<5	5
1,1,1-trichloroethane	<5	5	chlorobenzene	<5	5
carbon tetrachloride	<5	5	ethylbenzene	<5	5

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	<10	10	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-Trichloro-1,2,2-trifluoroethane	<5	5	styrene	<5	5
			xylenes	<5	5
2-butanone	<10	10			

Comments: Analysis by U.S. EPA Method 8240, reported in micrograms per kilogram, wet (as received) weight basis.

Analyst DC, WW

Manager Everett R. Smith

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GC/MS Priority Pollutant Analysis

Kennedy/Jenks/Chilton, Laboratory Division
657 Howard Street
San Francisco, CA 94105
415-362-6065

For Kennedy/Jenks/Chilton
Attention Noel M. Lerner
Address 3336 Bradshaw Road, Suite 320
Sacramento, CA 95827

1105

Received -
Reported 8/26/88
(K/J/C 882504.00)

Lab. No. Method Blank

Source Sample I.D.: Sand

Date Collected - Date Analyzed: 8/20/88

Time Collected -

Collected by K/J/C

PRIORITY POLLUTANT COMPOUNDS

Volatiles	ug/Kg(ppb)	Det. Lim.	Volatiles	ug	Det. Lim.
chloromethane	<10	10	bromodichloromethane		
bromomethane	<10	10	1,2-dichloropropane		
vinyl chloride	<10	10	trans-1,3-dichloroprop		5
chloroethane	<10	10	trichloroethylene		5
methylene chloride	<5	5	benzene		5
acrolein	<30	30	dibromochlorome		5
acrylonitrile	<10	10	cis-1,3-dich		5
trichlorofluoromethane	<5	5	1,1,2-tric		5
1,1-dichloroethylene	<5	5	2-chlor	5	5
1,1-dichloroethane	<5	5	brome	<5	5
1,2-dichloroethylene	<5	5	te	<5	5
chloroform	<5	5		<5	5
1,2-dichloroethane	<5	5		<5	5
1,1,1-trichloroethane	<5			<5	5
carbon tetrachloride	<5			<5	5

NON-

acetonitrile	<10	10
acetone	<10	10
carbon disulfide	<10	10
1,1,2-Trichloro-1,2,2-trifluoroethane	<5	5
2-butanone	<5	5

Comments: Analysis by U.S. E
(as received) weight basis.

grams per kilogram, wet

Analyst DC, WW

Everett R. Smith

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ty of the laboratory is limited to the amount paid for the report by the iss
or its contents and by making such distribution agrees to hold the labor
thereof.

y of apparently identical or similar samples. The liabili-
umes all liability for the further distribution of this report
gainst all claims of persons so informed of the contents

Lab-11 7/86

GC/MS Priority Pollutant Analysis

Kennedy/Jenks/Chilton, Laboratory Division
657 Howard Street
San Francisco, CA 94105
415-362-6065

1105

For Kennedy/Jenks/Chilton
Attention Noel M. Lerner
Address 3336 Bradshaw Road, Suite 320
Sacramento, CA 95827

Received -
Reported 8/26/88
(K/J/C 882504.00)

Lab. No. Method Blank

Source Sample I.D.: Sand

Date Collected - Date Analyzed: 8/18/88

Time Collected -

Collected by K/J/C

PRIORITY POLLUTANT COMPOUNDS

Volatiles	ug/Kg(ppb)	Det. Lim.	Volatiles	ug/Kg(ppb)	Det. Lim.
chloromethane	<10	10	bromodichloromethane	<5	5
bromomethane	<10	10	1,2-dichloropropane	<5	5
vinyl chloride	<10	10	trans-1,3-dichloropropylene	<5	5
chloroethane	<10	10	trichloroethylene	<5	5
methylene chloride	<5	5	benzene	<5	5
acrolein	<30	30	dibromochloromethane	<5	5
acrylonitrile	<10	10	cis-1,3-dichloropropylene	<5	5
trichlorofluoromethane	<5	5	1,1,2-trichloroethane	<5	5
1,1-dichloroethylene	<5	5	2-chloroethylvinyl ether	<5	5
1,1-dichloroethane	<5	5	bromoform	<5	5
1,2-dichloroethylene	<5	5	tetrachloroethylene	<5	5
chloroform	<5	5	1,1,2,2-tetrachloroethane	<5	5
1,2-dichloroethane	<5	5	toluene	<5	5
1,1,1-trichloroethane	<5	5	chlorobenzene	<5	5
carbon tetrachloride	<5	5	ethylbenzene	<5	5

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	74	10	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-Trichloro-1,2,2-trifluoroethane	<5	5	styrene	<5	5
			xylenes	<5	5
2-butanone	<10	10			

Comments: Analysis by U.S. EPA Method 8240, reported in micrograms per kilogram, wet (as received) weight basis.

Analyst DC, WW Manager Everett R. Smith

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Lab-11 1/86

GC/MS Priority Pollutant Analysis

Kennedy/Jenks/Chilton, Laboratory Division
657 Howard Street
San Francisco, CA 94105
415-362-6065

7105

For Attention Address: Kennedy/Jenks/Chilton, Noel M. Lerner, 3336 Bradshaw Road, Suite 320, Sacramento, CA 95827

Received -
Reported 8/26/88
(K/J/C 882504.00)

Lab. No. Method Blank

Source Sample I.D.: Sand

Date Collected -

Date Analyzed: 8/19/88

Time Collected -

Collected by K/J/C

PRIORITY POLLUTANT COMPOUNDS

Volatiles	ug/Kg(ppb)	Det. Lim.	Volatiles	ug/Kg(ppb)	Det. Lim.
chloromethane	<10	10	bromodichloromethane	<5	5
bromomethane	<10	10	1,2-dichloropropane	<5	5
vinyl chloride	<10	10	trans-1,3-dichloropropylene	<5	5
chloroethane	<10	10	trichloroethylene	<5	5
methylene chloride	<5	5	benzene	<5	5
acrolein	<30	30	dibromochloromethane	<5	5
acrylonitrile	<10	10	cis-1,3-dichloropropylene	<5	5
trichlorofluoromethane	<5	5	1,1,2-trichloroethane	<5	5
1,1-dichloroethylene	<5	5	2-chloroethylvinyl ether	<5	5
1,1-dichloroethane	<5	5	bromoform	<5	5
1,2-dichloroethylene	<5	5	tetrachloroethylene	<5	5
chloroform	<5	5	1,1,2,2-tetrachloroethane	<5	5
1,2-dichloroethane	<5	5	toluene	<5	5
1,1,1-trichloroethane	<5	5	chlorobenzene	<5	5
carbon tetrachloride	<5	5	ethylbenzene	<5	5

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	11	10	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-Trichloro-1,2,2-trifluoroethane	<5	5	styrene	<5	5
			xylenes	<5	5
2-butanone	<10	10			

Comments: Analysis by U.S. EPA Method 8240, reported in micrograms per kilogram, wet (as received) weight basis.

Analyst DC, WW

Manager Everett R. Smith

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Lab-11 '86

Kennedy/Jenks/Chilton
Laboratory Division
657 Howard Street
San Francisco, California 94105
415-362-6065

GC/MS Volatiles
Surrogate Standard Recovery Report

1105

For Attention Address: Kennedy/Jenks/Chilton
Noel M. Lerner
3336 Bradshaw Road, Suite 320
Sacramento, CA 95827

Received -
Reported 8/26/88
Quality Control Page
(K/J/C 882504.00)

Sample Identification		Percent Recoveries		
Lab No.	Type	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
Method Blank	Sand	96	96	104
885839	Soil	99	96	99
885839 Dup.	Soil	101	102	101
885841	Soil	101	95	104
885842	Soil	102	96	107
885844	Soil	99	96	103
885840	Soil	102	93	101
885843	Soil	103	93	102
Method Blank	Sand	106	98	105
Method Blank	Sand	108	97	95
885845	Soil	94	101	94
885845 Dup.	Soil	104	99	94
885846	Soil	97	101	97

Acceptable Recoveries:	Water	Soil
1,2-Dichloroethane-d4	76-114	70-121
Toluene-d8	88-110	81-117
4-Bromofluorobenzene	86-115	74-121

Analyst DC, WW

Manager Everett R. Smith

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Kennedy/Jenks/Chilton
Laboratory Division
657 Howard Street
San Francisco, California 94105
415-362-6065

GC/MS Volatiles
Surrogate Standard Recovery Report

1105

For Attention Address: Kennedy/Jenks/Chilton
Noel M. Lerner
3336 Bradshaw Road, Suite 320
Sacramento, CA 95827

Received -
Reported 8/26/88
Quality Control Page
(K/J/C 882504.00)

Sample Identification		Percent Recoveries		
Lab No.	Type	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
885847	Soil	96	98	97
885848	Soil	92	98	99
885849	Soil	117	96	102
885850	Soil	120	93	98
Method Blank	Sand	100	89	107

Acceptable Recoveries:	Water	Soil
1,2-Dichloroethane-d4	76-114	70-121
Toluene-d8	88-110	81-117
4-Bromofluorobenzene	86-115	74-121

Analyst DC, WW

Manager Everett R. Smith

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LAB-1 1-86

Attachment C to Kennedy/Jenks/Chilton's
letter to Mr. Eugene Fox dated
30 September 1988

ATTACHMENT C

TOTAL PETROLEUM HYDROCARBONS
GAS CHROMATOGRAPHY SCANS

TOTAL PETROLEUM HYDROCARBON (TPH) ANALYSIS

Summary of Method:

Total petroleum hydrocarbons in a sample are determined using a pentane extract. After extraction, the pentane extract is injected into the GC and petroleum hydrocarbons are determined by flame ionization detection. A three point calibration, internal standard method is used.

Instrumentation:

Analyses are performed with a Hewlett Packard 5880A Gas Chromatograph with an F.I.D. Detector, using a 30 m x 0.25 mm I.D. Supelco SPB-5 capillary column with film thickness of 0.25 microns.

GC Conditions:

The initial column temperature is set at 40 degrees Centigrade at the time of injection, held for 8 minutes, then programmed at eight degrees Centigrade per minute to a final temperature of 250 degrees Centigrade, which is held for 2.5 minutes.

Reagents & Standards:

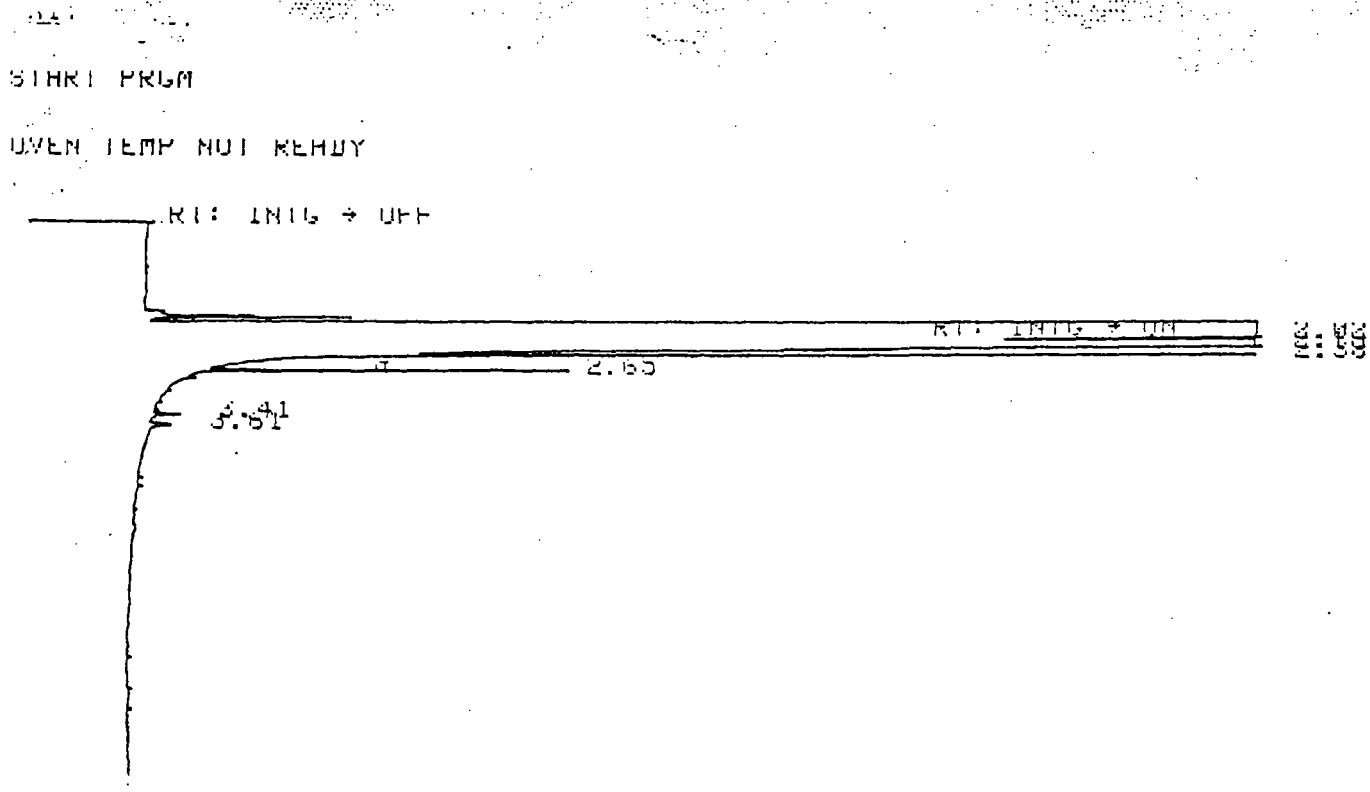
Pentane - pesticide residue analysis grade
Gasoline - commercial grade
Diesel - commercial grade
Pristane - Aldrich, 98% (internal standard)
Ottawa sand - standard reagent grade (sand blank)

Note:
On the chromatogram, the designation of a laboratory number followed by "A" and "B", refers to duplicate runs on a sample. A "C" following the laboratory number refers to a sample that has been spiked.
G/D signifies gasoline/diesel; for example, G/D standard 358/420 means that the calibration level for gasoline is 358 ppm, and that for diesel is 420 ppm.

KENNEDY/JENKS/CHILTON
LABORATORY DIVISION
657 HOWARD STREET
SAN FRANCISCO, CA 94105

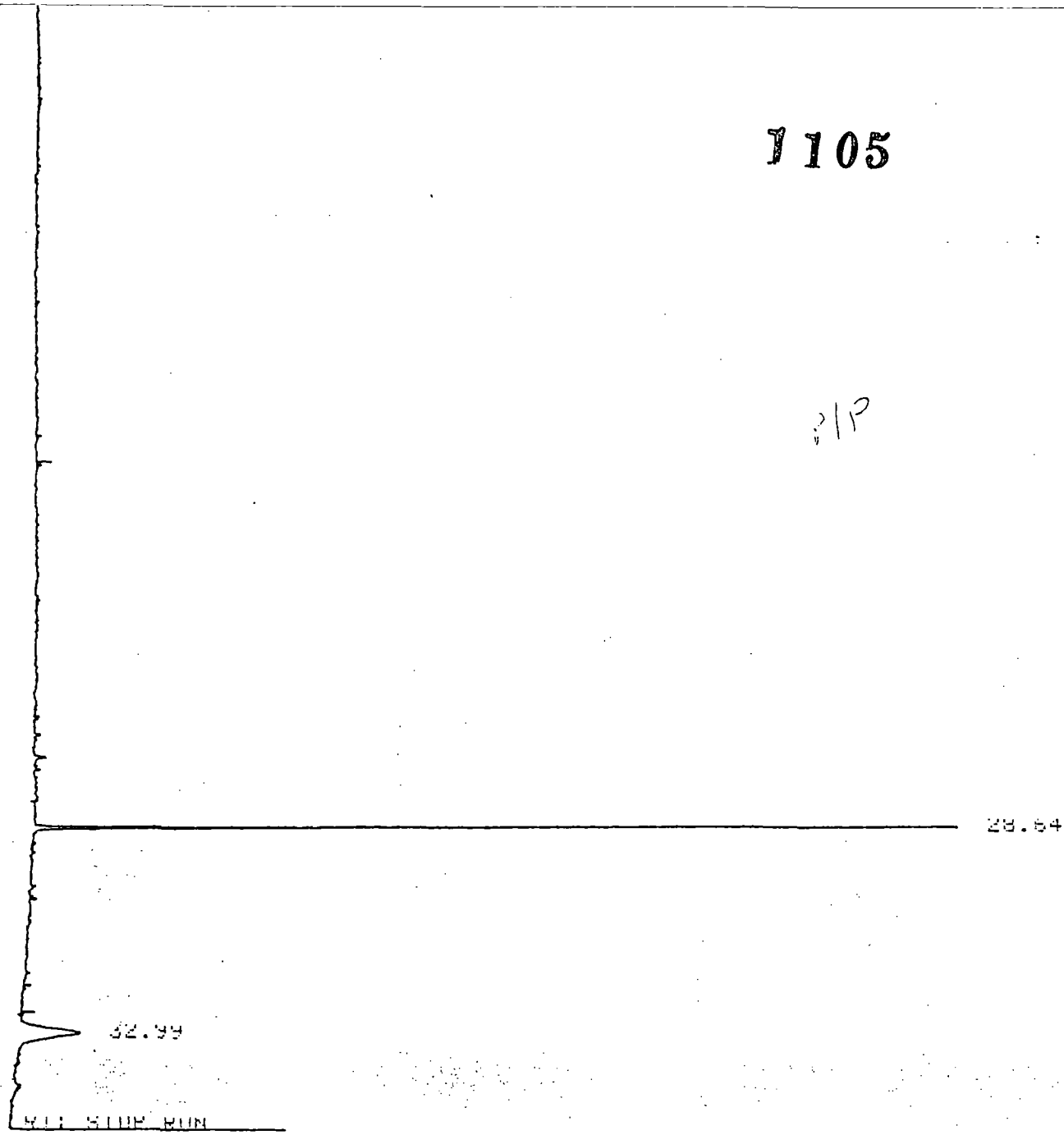
1105

Copies of gas chromatographic traces for petroleum hydrocarbons (gas/diesel/stoddard analyses, PAC samples # 885839-50, 8/88.



1105

P/P



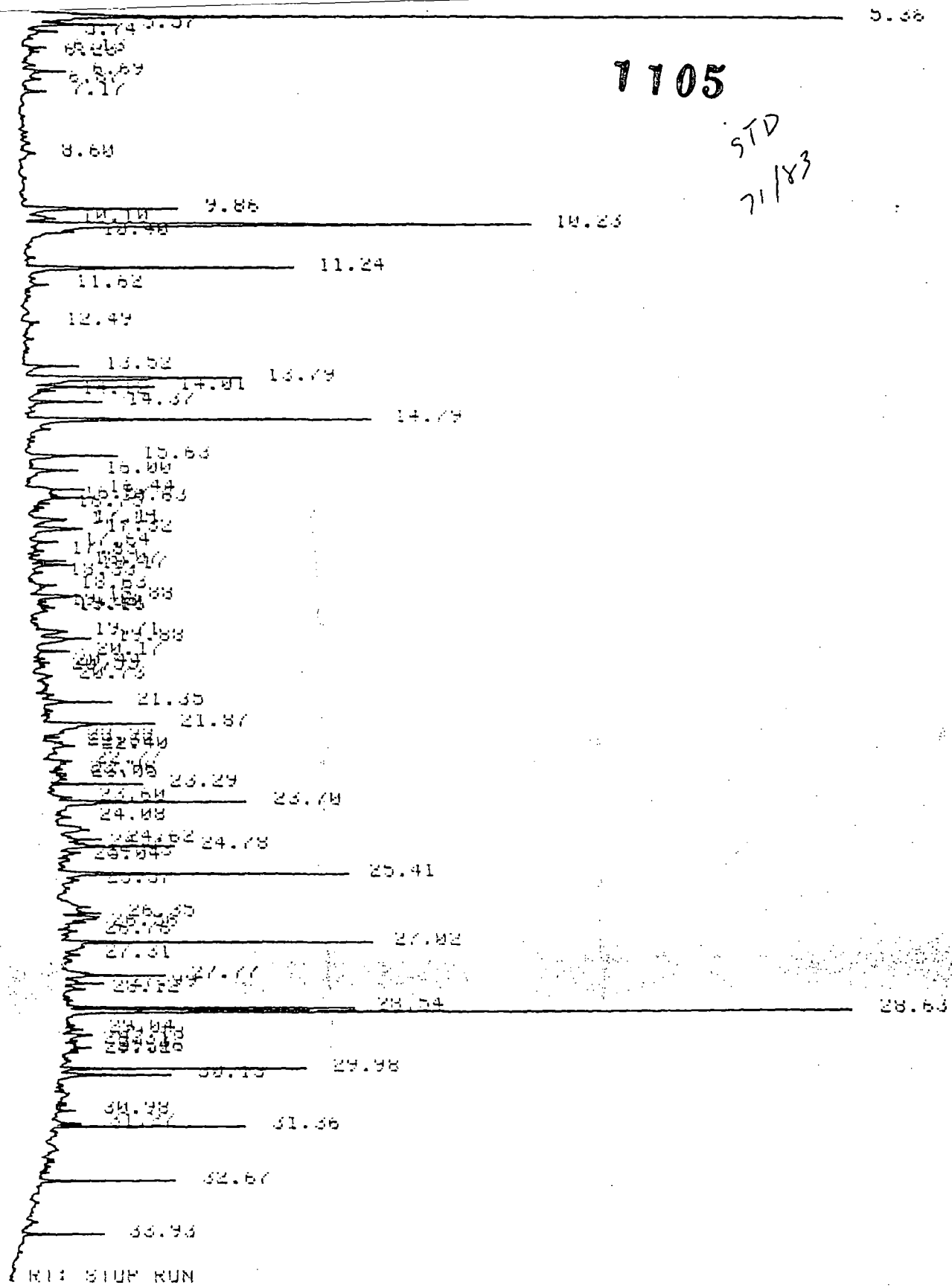
[HP] 5880A SAMPLER INJECTION @ 15:37 AUG 24, 1988
SAMPLE # : 1 ID CODE : P/P
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CHL	AMOUNT	NAME
28.64	19.61	BB	10	ISTD 1	PRISTANE
32.99	6.02	BB	13	454.675	DIESEL 6 µm

MULTIPLIER = 1
ISTD 1 AMT = 5

RT: INIT + OFF

RT: INIT + ON



Inp: 5880H SAMPLER INJECTION @ 16:24 AUG 24, 1988
SAMPLE # : ID CODE :
2 71/83
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME

1105

	8.54	BB	3	75.962	GASOLINE 3
13.79	8.77	BV	4	84.338	GASOLINE 4
14.79	8.40	BB	5	74.749	GASOLINE 5
17.32	1.84	BB	6	76.054	GASOLINE 6
25.41	6.17	BB	7	85.611	DIESEL 1
27.02	5.27	BB	8	78.145	DIESEL 2
28.54	4.92	BV	9	89.943	DIESEL 3
28.63	25.20	VB	10	ISTD 1	PRISTANE
29.98	4.30	BB	11	90.846	DIESEL 4
31.36	3.33	PB	12	86.179	DIESEL 5
32.67	2.44	BB	13	88.256	DIESEL 6
33.93	1.50	BB	14	87.381	DIESEL 7

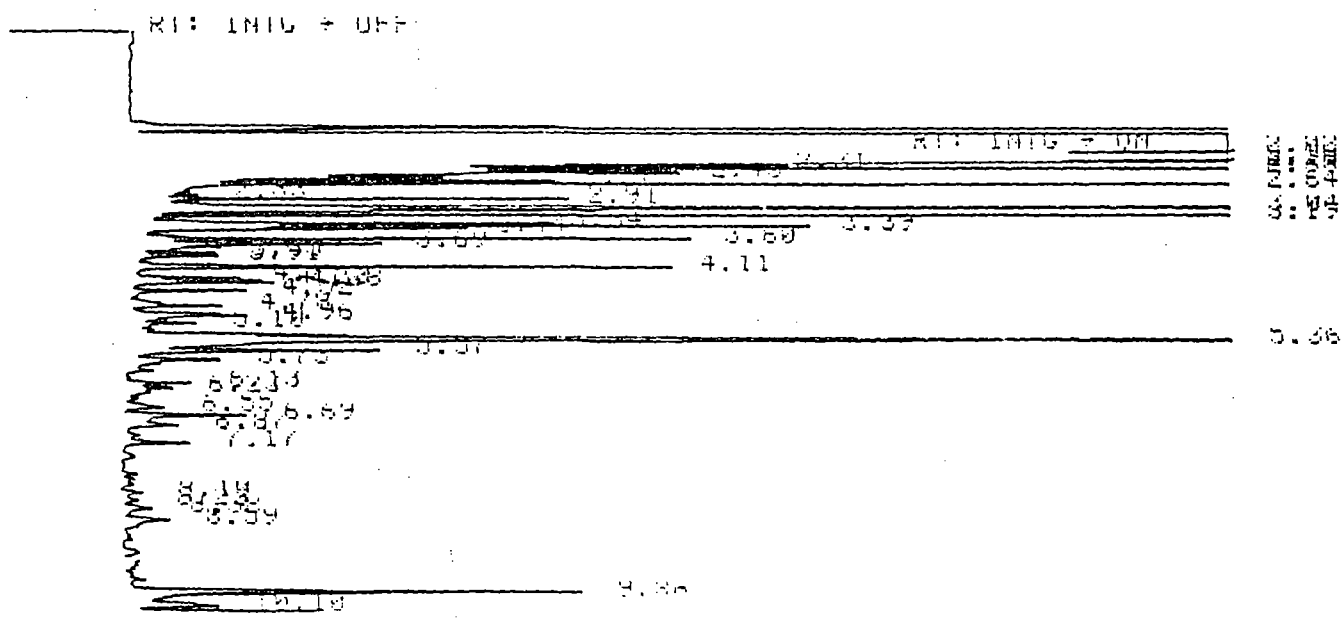
MULTIPLIER = 1
ISTD 1 AMT = 5

[illegible] 5880H SAMPLER INJECTION @ 16:24 AUG 24, 1988
SAMPLE # : 10 CODE :
2 /1/83
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CHL	AMOUNT	NAME
9.86	4.46	BB	1	71.000	GASOLINE 1
10.23	18.96	PV	2	71.000	GASOLINE 2
11.24	6.94	BB	3	71.000	GASOLINE 3
13.79	8.77	BV	4	71.000	GASOLINE 4
14.79	8.40	BB	5	71.000	GASOLINE 5
17.32	1.84	BB	6	71.000	GASOLINE 6
25.41	6.17	BB	7	83.160	DIESEL 1
27.02	5.27	BB	8	83.160	DIESEL 2
28.54	4.92	BV	9	83.160	DIESEL 3
28.63	25.20	VB	10	ISTD 1	PRISTANE
29.98	4.30	BB	11	83.160	DIESEL 4
31.36	3.33	PB	12	83.160	DIESEL 5
32.67	2.44	BB	13	83.160	DIESEL 6
33.93	1.50	BB	14	83.160	DIESEL 7

MULTIPLIER = 1
ISTD 1 AMT = 5

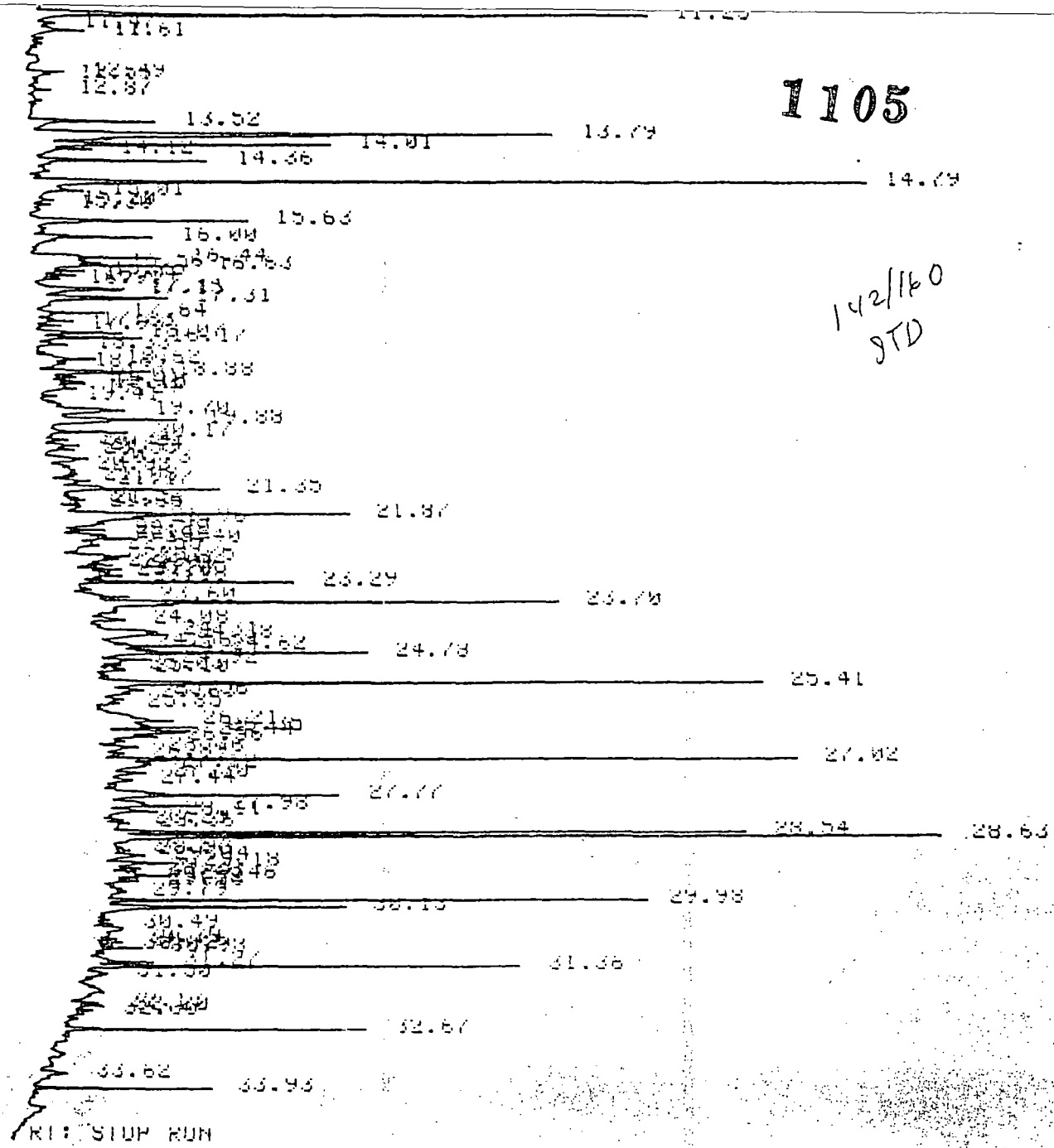
OVEN TEMP NOT READY



SUPELCO, Bellefonte, PA Cat. No. 2-2887 (pad); Cat. No. 2-2888 (box of 10 pads)

056 J

1105



[OP] 5880H SAMPLER INJECTION @ 17:12 AUG 24, 1988
SAMPLE # : ID CODE :
3 142/166
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CHL	AMOUNT	NAME
9.86	9.69	BB	1	149.557	GASOLINE 1
10.23	39.22	PV	2	151.175	GASOLINE 2
11.23	14.47	BB	3	153.807	GASOLINE 3
13.79	15.91	BV	4	143.551	GASOLINE 4
14.79	17.25	BB	5	145.979	GASOLINE 5
17.31	3.78	BB	6	154.688	GASOLINE 6
25.41	12.95	BV	7	181.370	DIESEL 1
27.02	10.96	BV	8	167.424	DIESEL 2
28.54	9.66	BV	9	175.091	DIESEL 3
28.63	28.75	VB	10	1510 1	PRISTANE
29.98	8.21	BB	11	176.603	DIESEL 4

31.36	6.70	VB	12	176.598	DIESEL 5
32.67	4.76	BB	13	172.976	DIESEL 6
33.93	2.80	BB	14	170.225	DIESEL 7

MULTIPLIER = 1
ISTD 1 AMT = 5

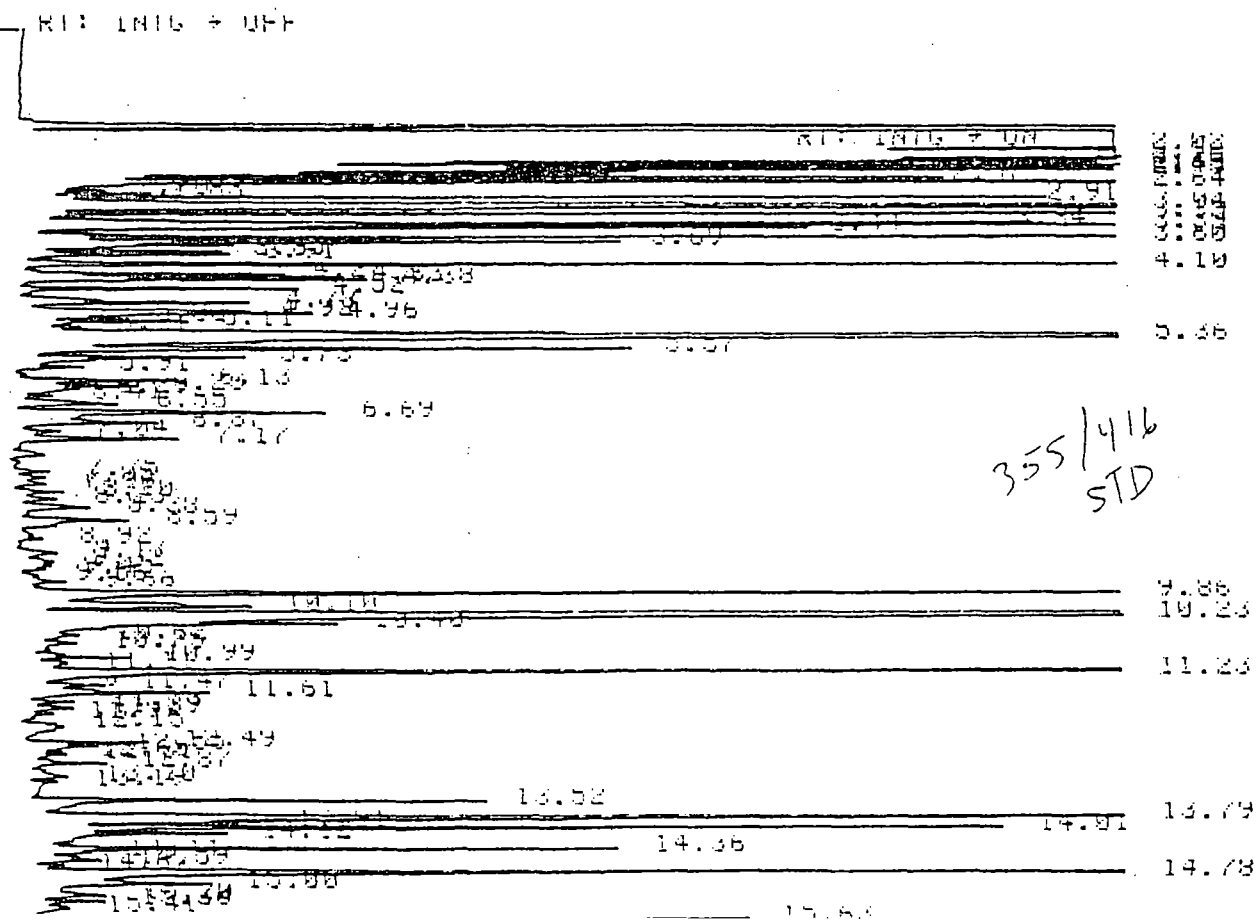
1105

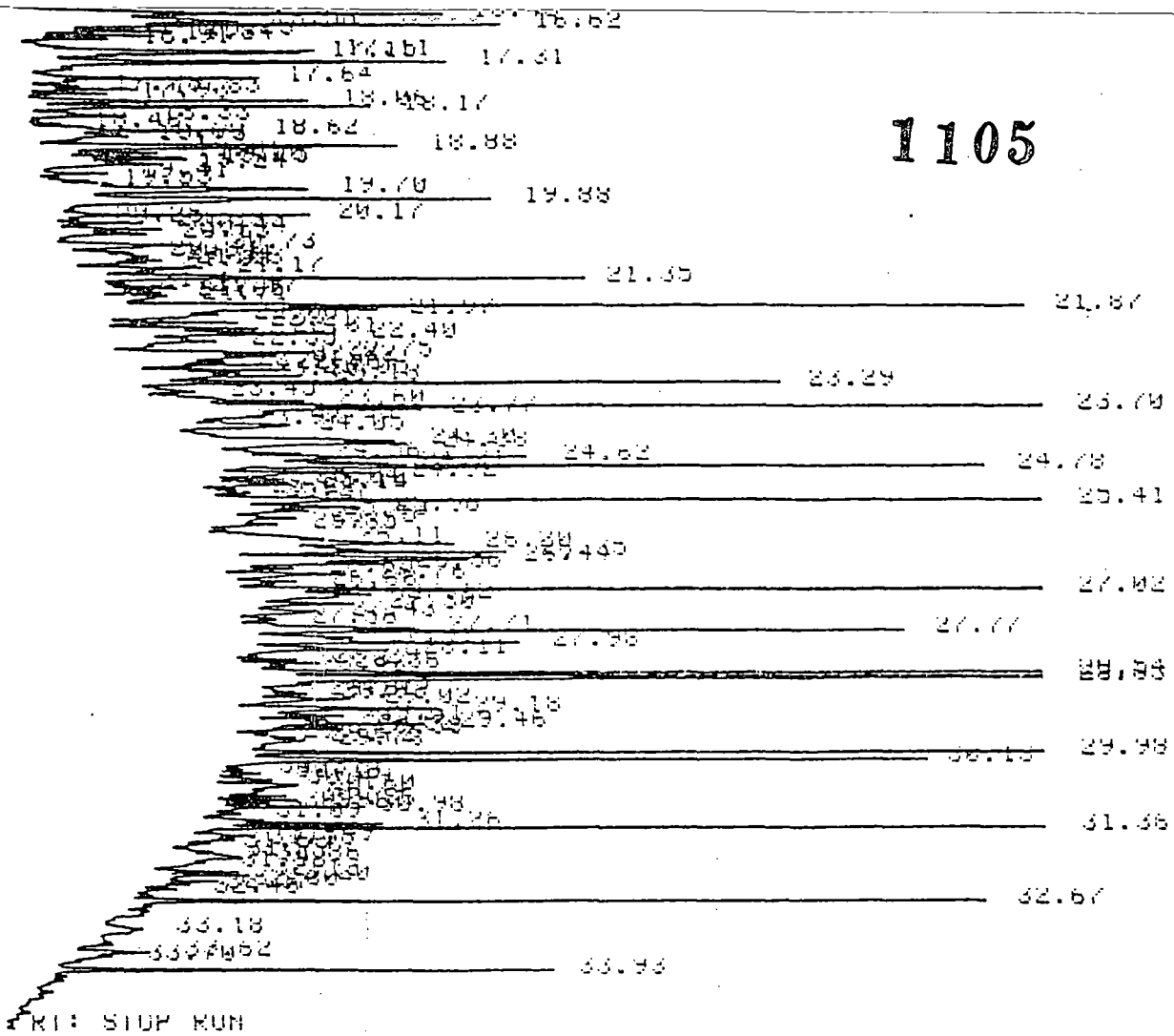
GAS 5880A SAMPLER INJECTION @ 17:12 AUG 24, 1988
SAMPLE # : ID CODE :
3 142/166
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CHL	AMOUNT	NAME
9.86	9.69	BB	1	142.000	GASOLINE 1
10.23	39.22	PV	2	142.000	GASOLINE 2
11.23	14.47	BB	3	142.000	GASOLINE 3
13.79	15.91	BV	4	142.000	GASOLINE 4
14.79	17.25	BB	5	142.000	GASOLINE 5
17.31	3.78	BB	6	142.000	GASOLINE 6
25.41	12.95	BV	7	166.200	DIESEL 1
27.02	10.96	BV	8	166.200	DIESEL 2
28.54	9.66	BV	9	166.200	DIESEL 3
29.63	28.75	VB	10	ISTD 1	PRISTANE
29.98	8.21	BB	11	166.200	DIESEL 4
31.36	6.70	VB	12	166.200	DIESEL 5
32.67	4.76	BB	13	166.200	DIESEL 6
33.93	2.80	BB	14	166.200	DIESEL 7

MULTIPLIER = 1
ISTD 1 AMT = 5

OVEN TEMP NOT READY





RT: STOP RUN

[DP] 5880H SAMPLER INJECTION @ 17:59 AUG 24, 1988
SAMPLE # : ID CODE :
4 355/416
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CHL	AMOUNT	NAME
9.86	26.73	BV	1	350.352	GASOLINE 1
10.23	100.74	PV	2	351.558	GASOLINE 2
11.23	37.20	BV	3	351.622	GASOLINE 3
13.79	42.30	BV	4	349.879	GASOLINE 4
14.78	46.94	BV	5	346.216	GASOLINE 5
17.31	10.06	BV	6	336.031	GASOLINE 6
25.41	32.16	VV	7	419.903	DIESEL 1
27.02	29.27	VV	8	418.899	DIESEL 2
28.54	25.77	VV	9	414.226	DIESEL 3
28.63	43.71	VV	10	ISTD 1	PRISTANE
29.98	20.79	BV	11	417.111	DIESEL 4
31.36	17.43	VV	12	404.148	DIESEL 5
32.67	12.38	VV	13	424.125	DIESEL 6
33.93	6.80	BB	14	403.811	DIESEL 7

MULTIPLIER = 1
ISTD 1 AMT = 5

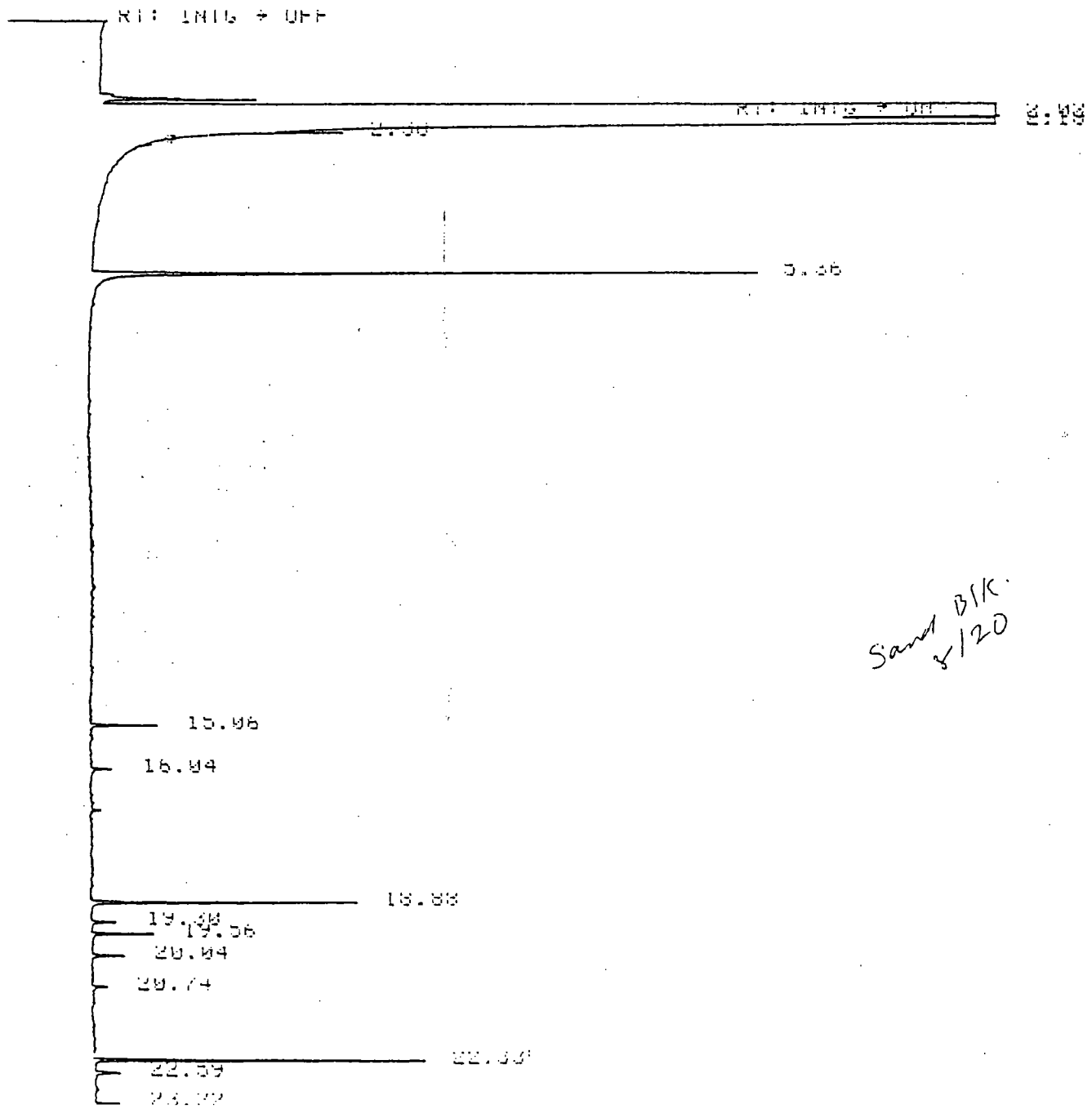
[DP] 5880H SAMPLER INJECTION @ 17:59 AUG 24, 1988
SAMPLE # : ID CODE :
4 355/416

RT	AREA	TYPE	CHL	AMOUNT	NAME
9.86	26.73	BV	1	355.000	GASOLINE 1
10.23	100.74	PV	2	355.000	GASOLINE 2
11.23	37.20	BV	3	355.000	GASOLINE 3
13.79	42.30	BV	4	355.000	GASOLINE 4
14.78	46.94	BV	5	355.000	GASOLINE 5
17.31	10.06	BV	6	355.000	GASOLINE 6
25.41	32.16	VV	7	415.800	DIESEL 1
27.02	29.27	VV	8	415.800	DIESEL 2
28.54	25.77	VV	9	415.800	DIESEL 3
28.83	43.71	VV	10	ISTD 1	PRISTANE
29.98	20.79	BV	11	415.800	DIESEL 4
31.36	17.43	VV	12	415.800	DIESEL 5
32.67	12.38	VV	13	415.800	DIESEL 6
33.93	6.80	BB	14	415.800	DIESEL 7

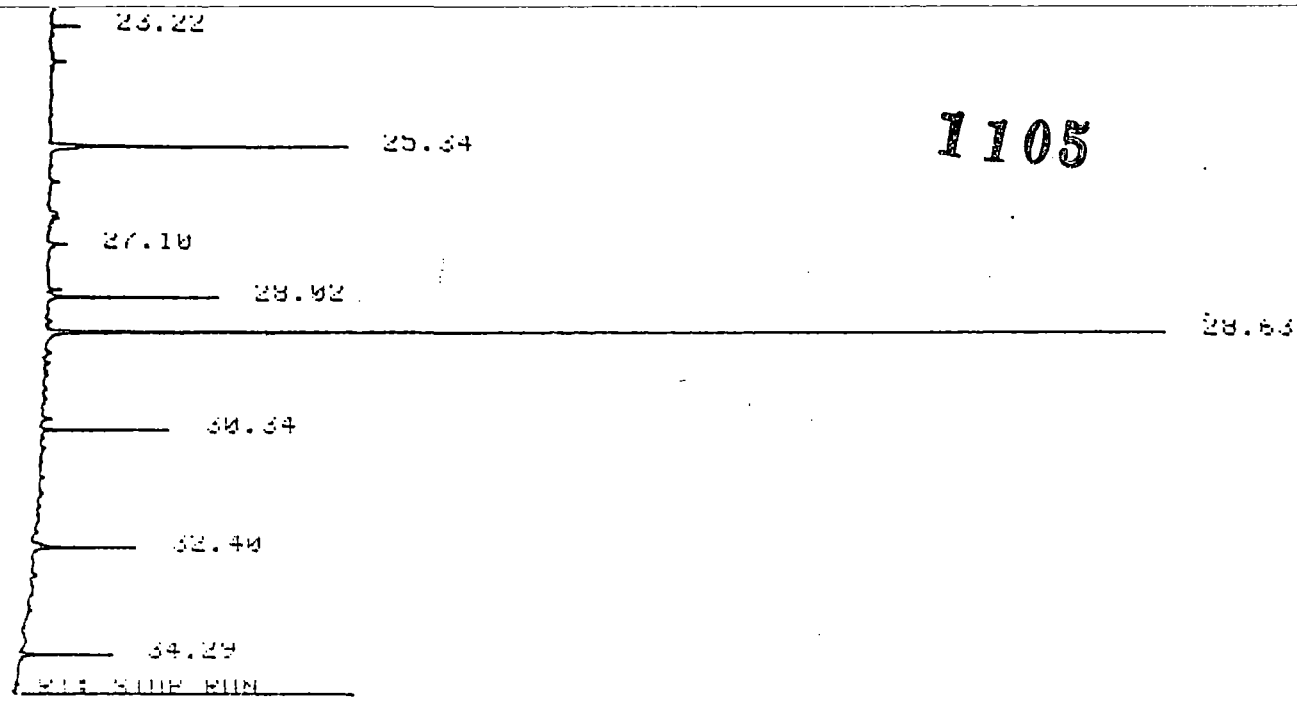
1105

MULTIPLIER = 1
ISTD 1 AMT = 5

OVEN TEMP NOT READY



Sand Blk
8/20

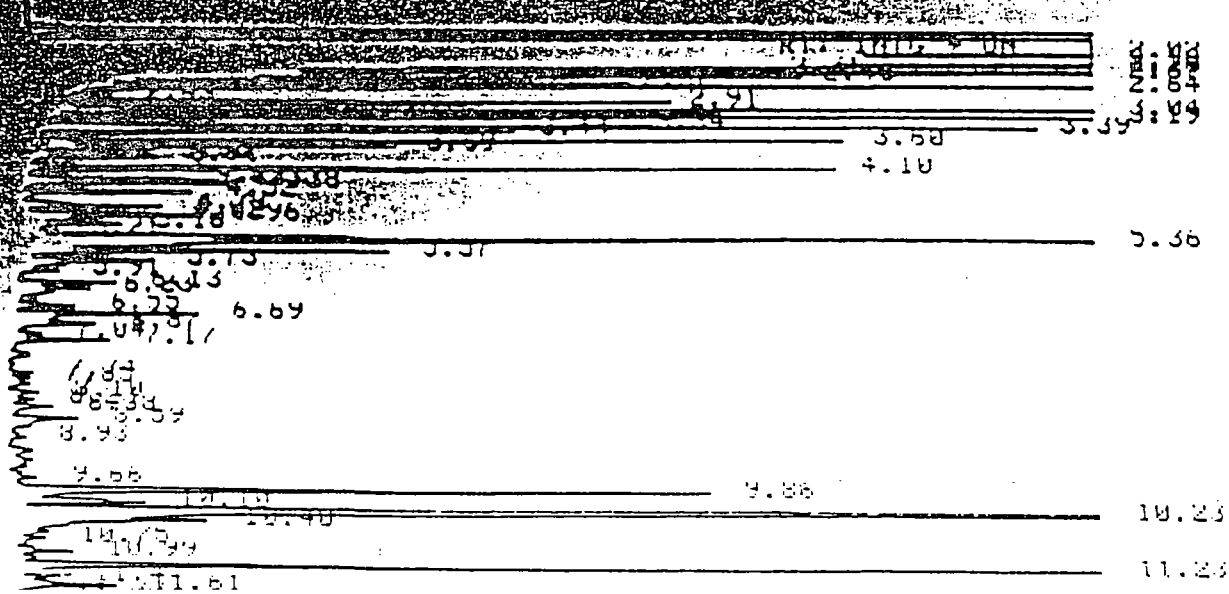


1105

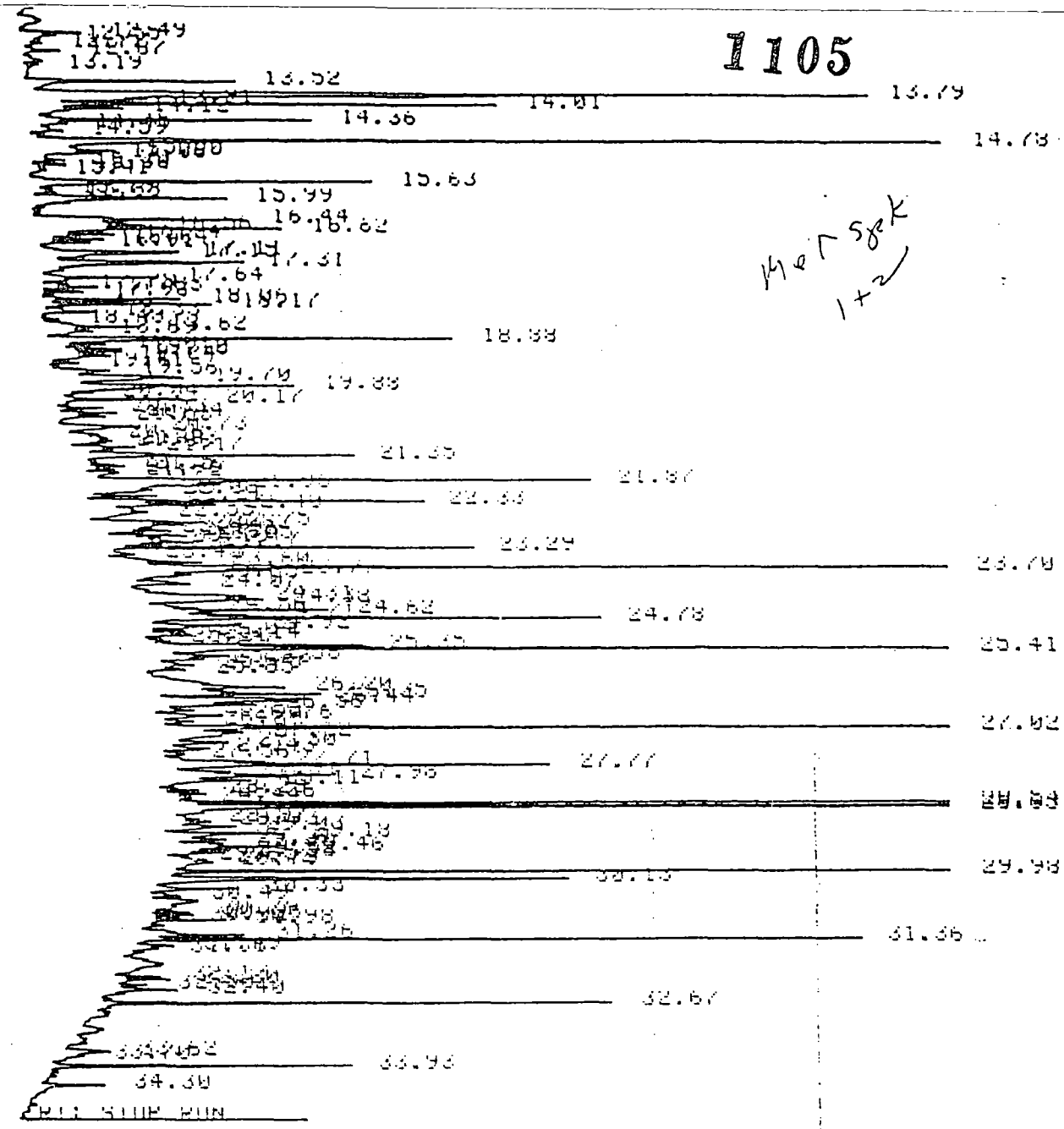
[illegible] 5880H SAMPLER INJECTION @ 18:46 AUG 24, 1988
SAMPLE # : ID CODE :
5 MEI BLF 8/20
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CHL	AMOUNT	NAME
15.06	1.08	BB	5	11.581	GASOLINE 5
16.04	0.32	BB	6	15.556	GASOLINE 6
25.34	4.23	BB	7	72.349	DIESEL 1
27.10	0.20	BB	8	4.056	DIESEL 2
28.63	19.88	BB	10	ISTD 1	PRISTANE
30.34	1.64	BB	11	40.199	DIESEL 4
32.40	1.41	BB	13	60.910	DIESEL 6
34.29	1.21	BB	14	86.854	DIESEL 7

MULTIPLIER= 1.
ISTD 1 AMT = 5



SUPELCO, Bellefonte, PA Cat. No. 2-2887 (pad)



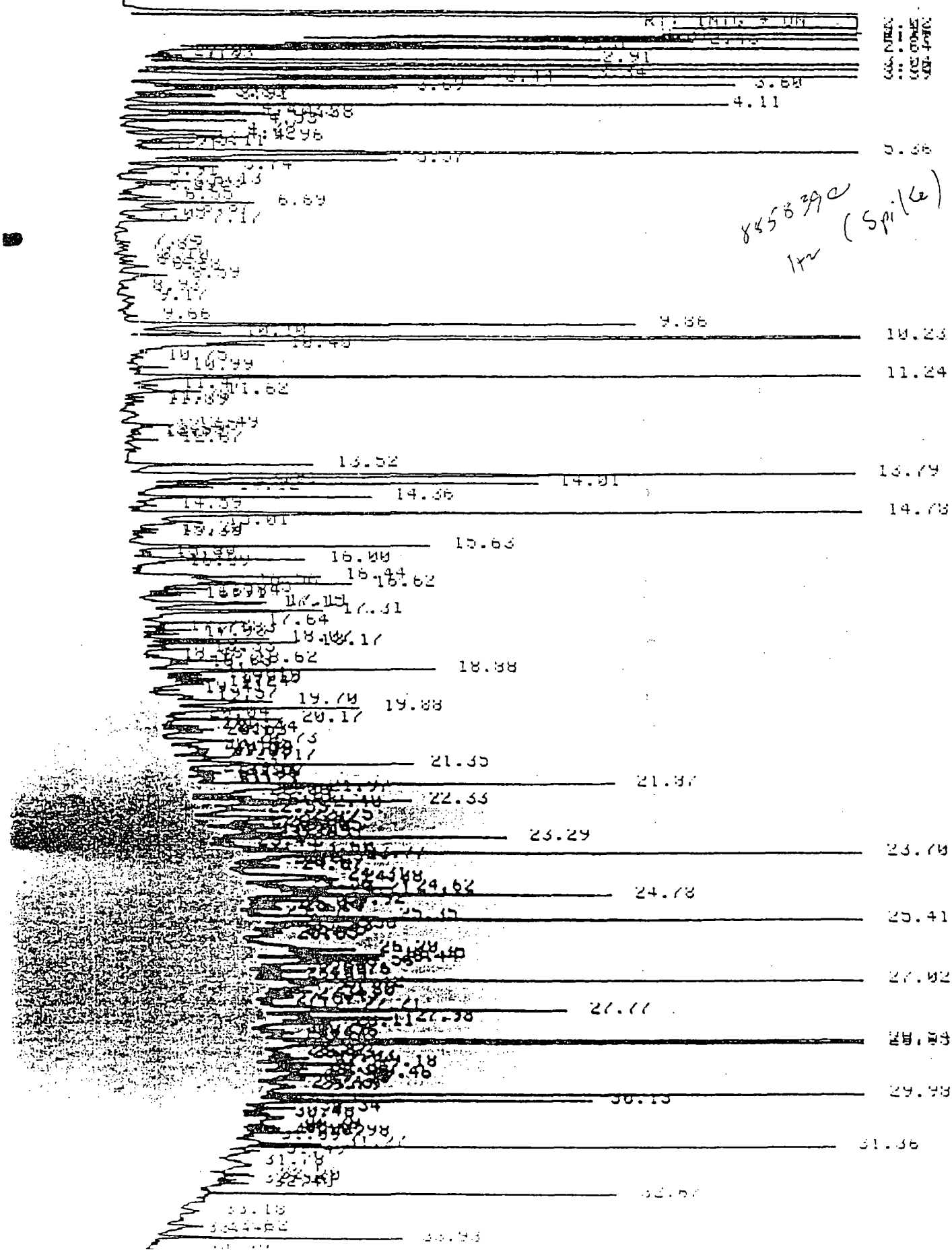
[HP] 5880H SAMPLER INJECTION @ 19:33 AUG 24, 1988
SAMPLE # : ID CODE :
6 MET SPK 1+2
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CHL	AMOUNT	NAME
9.86	15.43	BV	1	242.057	GASOLINE 1
10.23	59.42	PV	2	239.390	GASOLINE 2
11.23	21.93	BV	3	239.331	GASOLINE 3
13.79	25.45	BV	4	252.569	GASOLINE 4
14.78	26.22	BB	5	228.176	GASOLINE 5
17.31	5.52	BB	6	217.835	GASOLINE 6
25.41	21.03	VV	7	327.765	DIESEL 1
27.02	17.89	PV	8	303.841	DIESEL 2
28.54	15.64	PV	9	300.501	DIESEL 3
28.63	33.12	VB	10	ISTD 1	PRISTANE
29.98	13.51	BB	11	327.018	DIESEL 4
31.36	11.26	VP	12	327.371	DIESEL 5
32.67	8.18	PV	13	338.685	DIESEL 6
[illegible]	4.66	PB	14	351.799	DIESEL 7

MULTIPLIER = 1
ISIN 1 HMI = 5

RI: INIT + OFF

1105



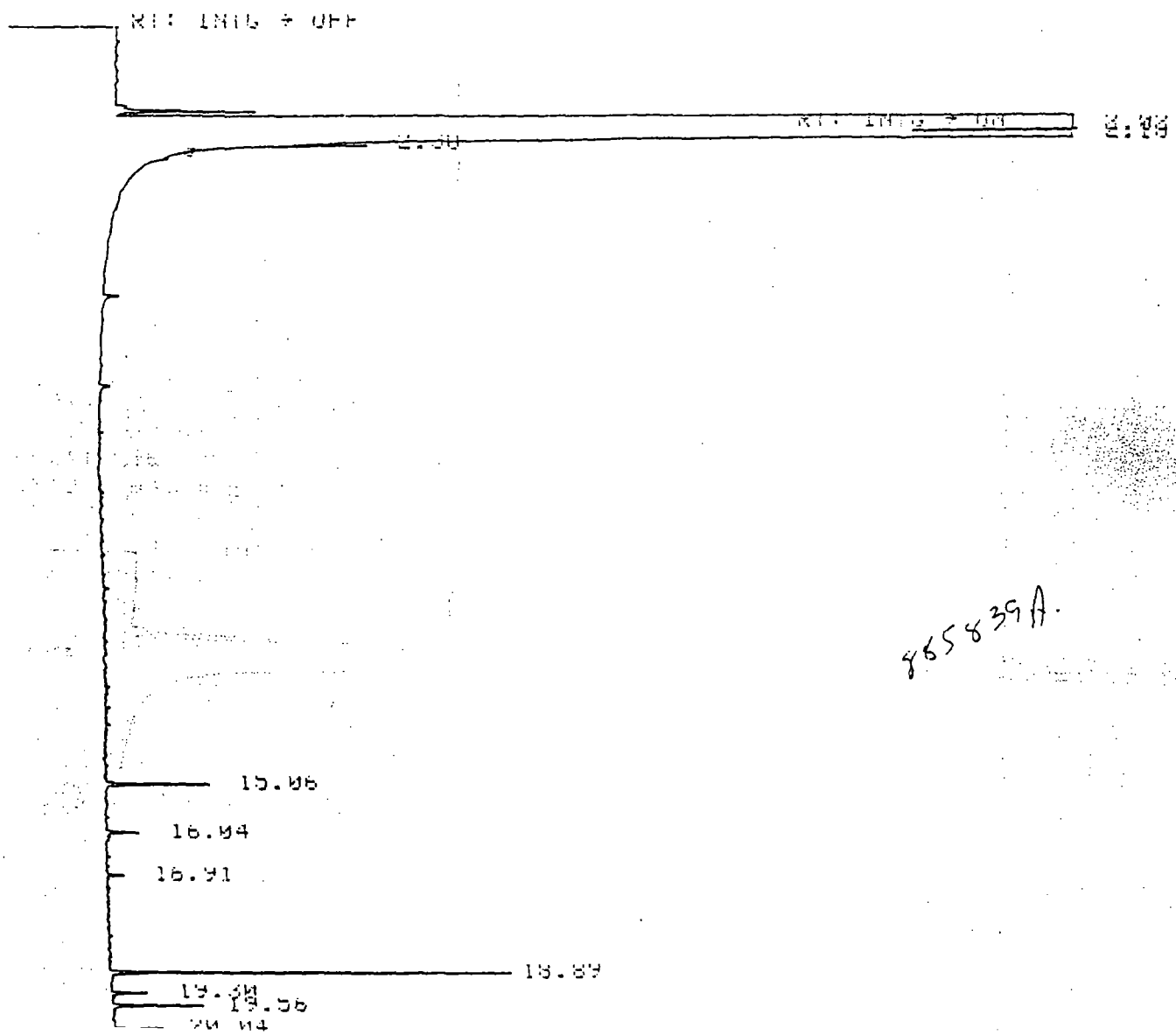
HP 5880A SAMPLER INJECTION @ 20:20 AUG 24, 1988
SAMPLE # : ID CODE :
/ 5889 C 1+2

1105

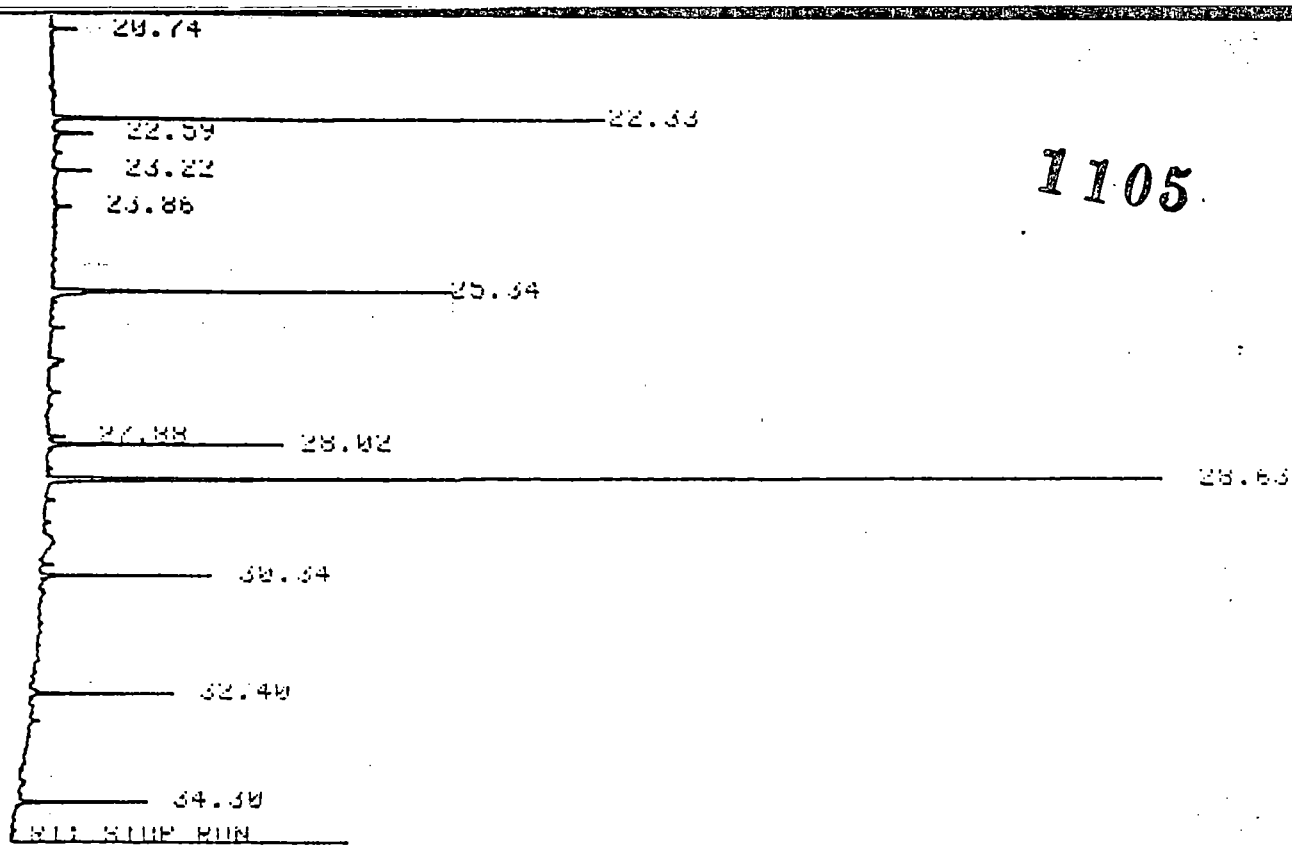
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CHL	AMOUNT	NAME
9.86	16.89	BV	1	252.137	GASOLINE 1
10.23	64.84	PV	2	249.264	GASOLINE 2
11.24	23.72	BB	3	245.510	GASOLINE 3
13.79	27.13	BV	4	252.799	GASOLINE 4
14.78	28.80	BB	5	239.247	GASOLINE 5
17.31	6.88	BB	6	230.281	GASOLINE 6
25.41	22.00	VV	7	317.688	DIESEL 1
27.02	18.79	PV	8	297.204	DIESEL 2
28.54	17.14	VV	9	313.911	DIESEL 3
28.63	35.28	VV	10	ISTD 1	PRISTANE
29.98	14.24	BB	11	321.210	DIESEL 4
31.36	11.86	VP	12	321.564	DIESEL 5
32.67	8.64	PV	13	334.154	DIESEL 6
33.93	4.87	BB	14	340.408	DIESEL 7

MULTIPLIER = 1
ISTD 1 AMT = 5



865839A.

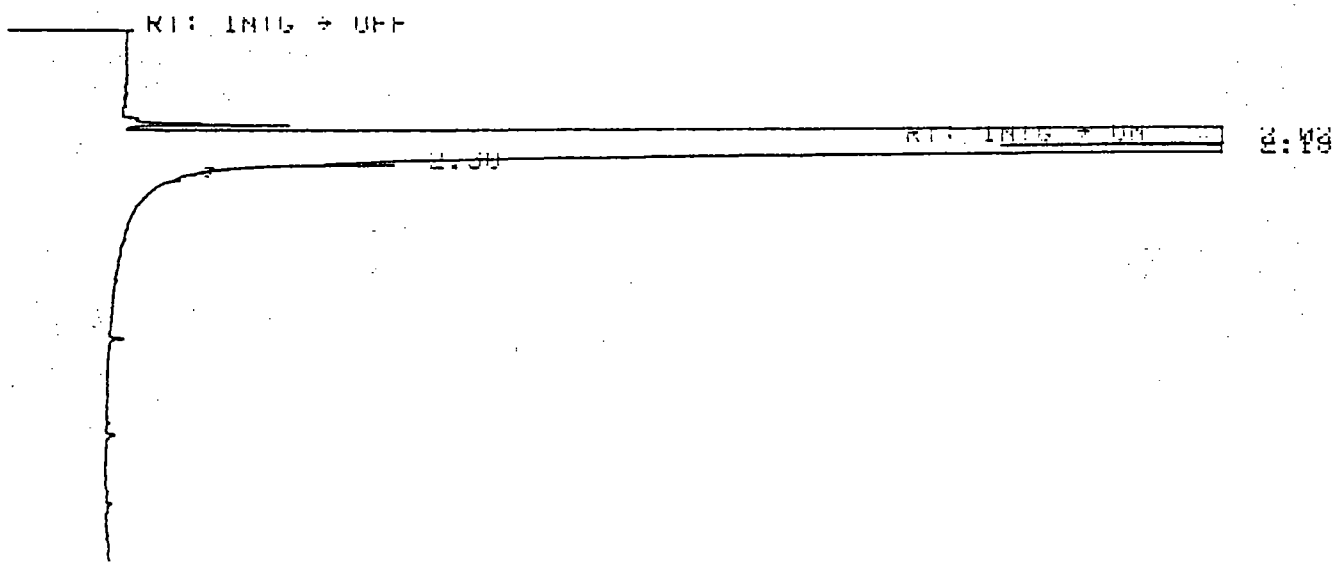


1105

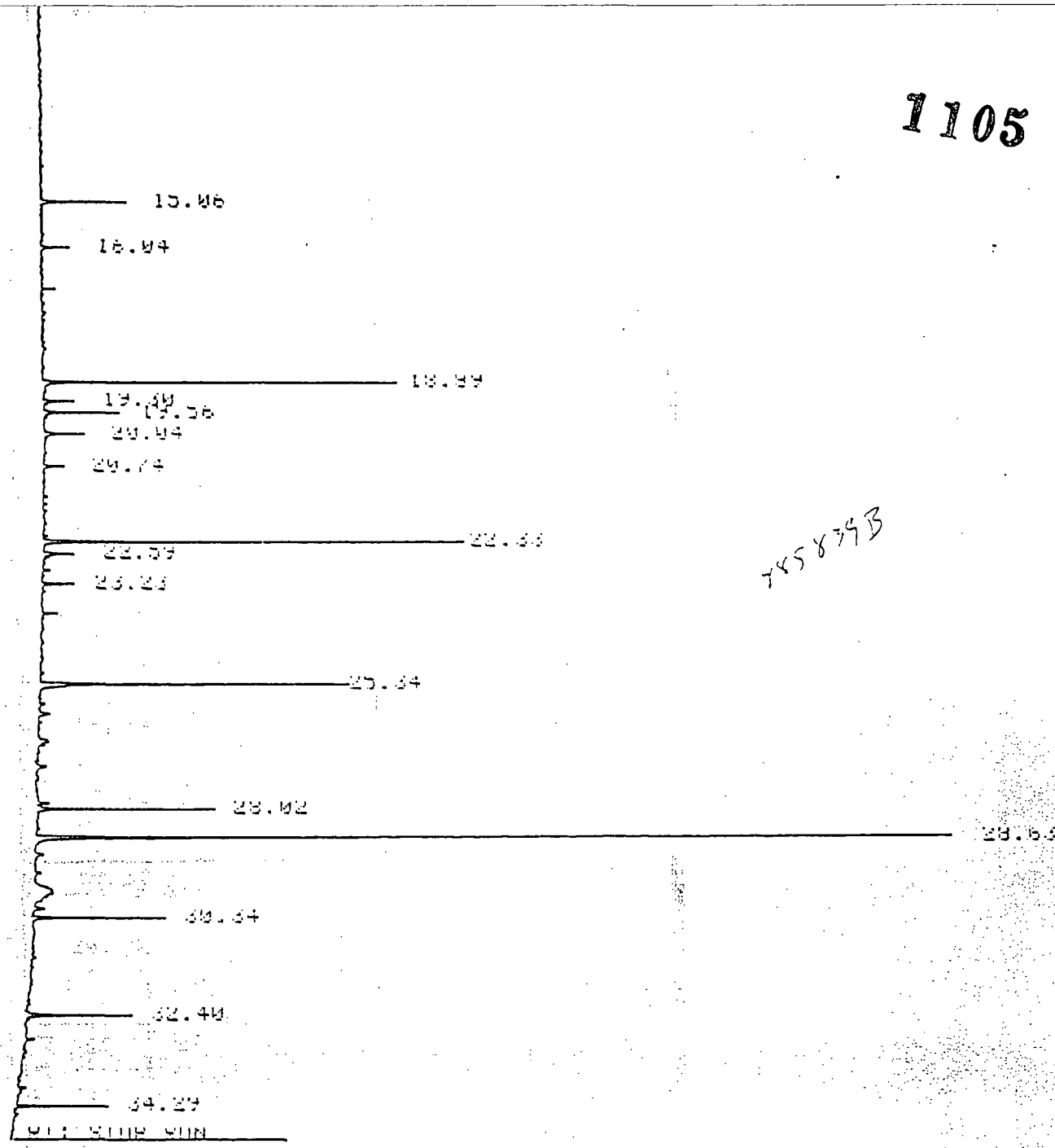
[DP] 5880H SAMPLER INJECTION @ 21:07 AUG 24, 1988
SAMPLE # : ID CODE :
8 5839 H
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CHL	AMOUNT	NAME	
15.06	1.65	BB	5	16.122	GASOLINE 5	a Tray
16.91	0.18	BB	6	8.994	GASOLINE 6	
25.34	5.57	BB	7	87.515	DIESEL 1	
28.63	21.78	BB	10	ISTD 1	PRISTANE	
30.34	2.31	BB	11	51.533	DIESEL 4	B Tray
32.40	1.74	BB	13	68.888	DIESEL 6	
34.30	1.82	BB	14	135.682	DIESEL 7	

MULTIPLIER = 1
ISTD 1 AMT = 5



1105



745879B

MAP 5880H SAMPLER INJECTION @ 21:54 AUG 24, 1988
SAMPLE # : ID CODE :
9 5889 B
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

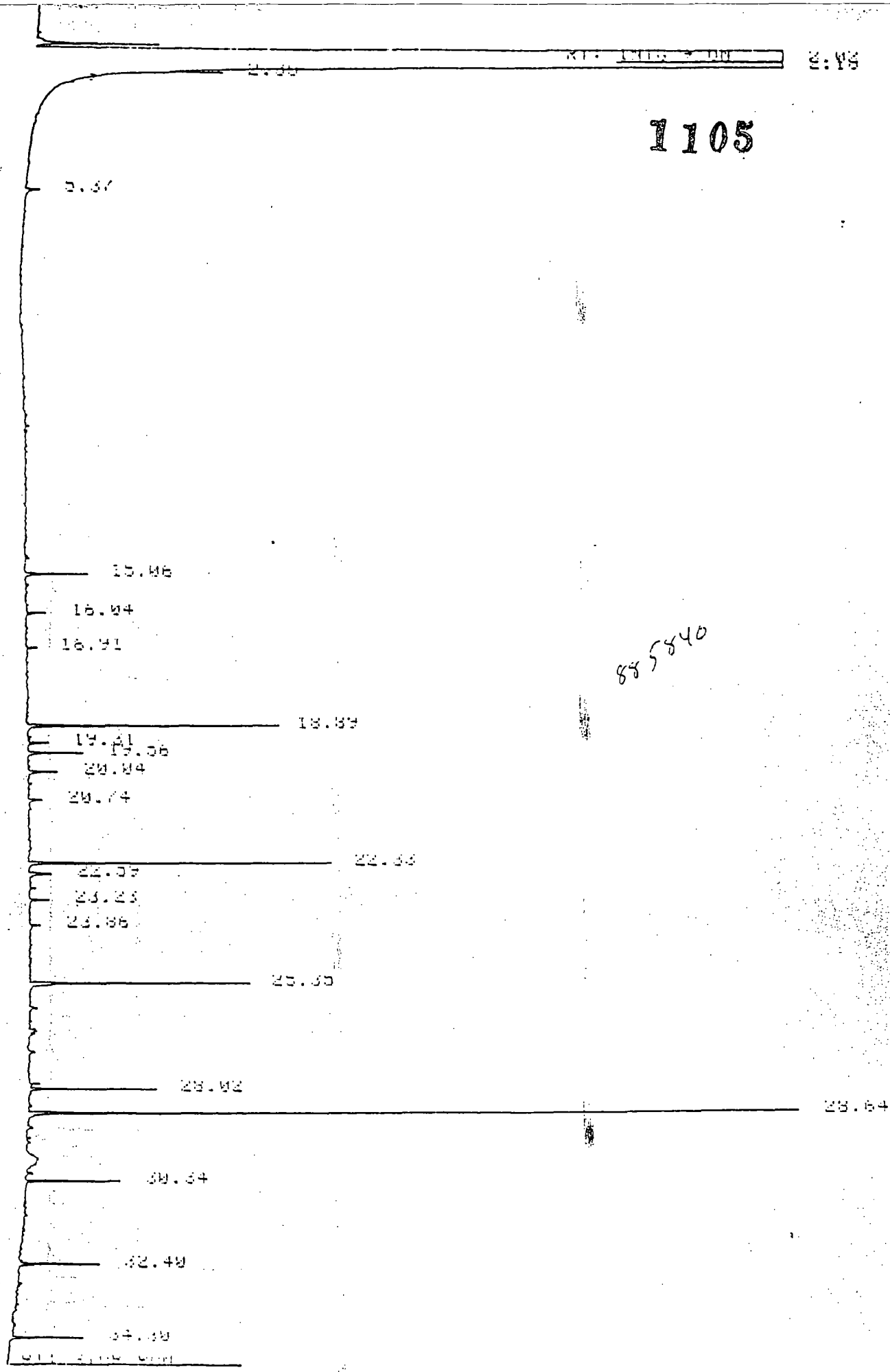
RT	AREA	TYPE	CHL	AMOUNT	NAME
15.06	1.48	BB	5	15.251	GASOLINE 5
16.04	0.50	BB	6	26.666	GASOLINE 6
25.64	5.25	BB	7	36.597	DIESEL 1
28.63	20.74	BB	10	ISTD 1	PRISTANE
30.34	2.09	BB	11	49.165	DIESEL 4
32.40	1.66	BB	13	68.884	DIESEL 5
34.29	1.43	BB	14	110.806	DIESEL 7

RT 14

RT 14

MULTIPLIER = 1
ISTD 1 AMT = 5

1105



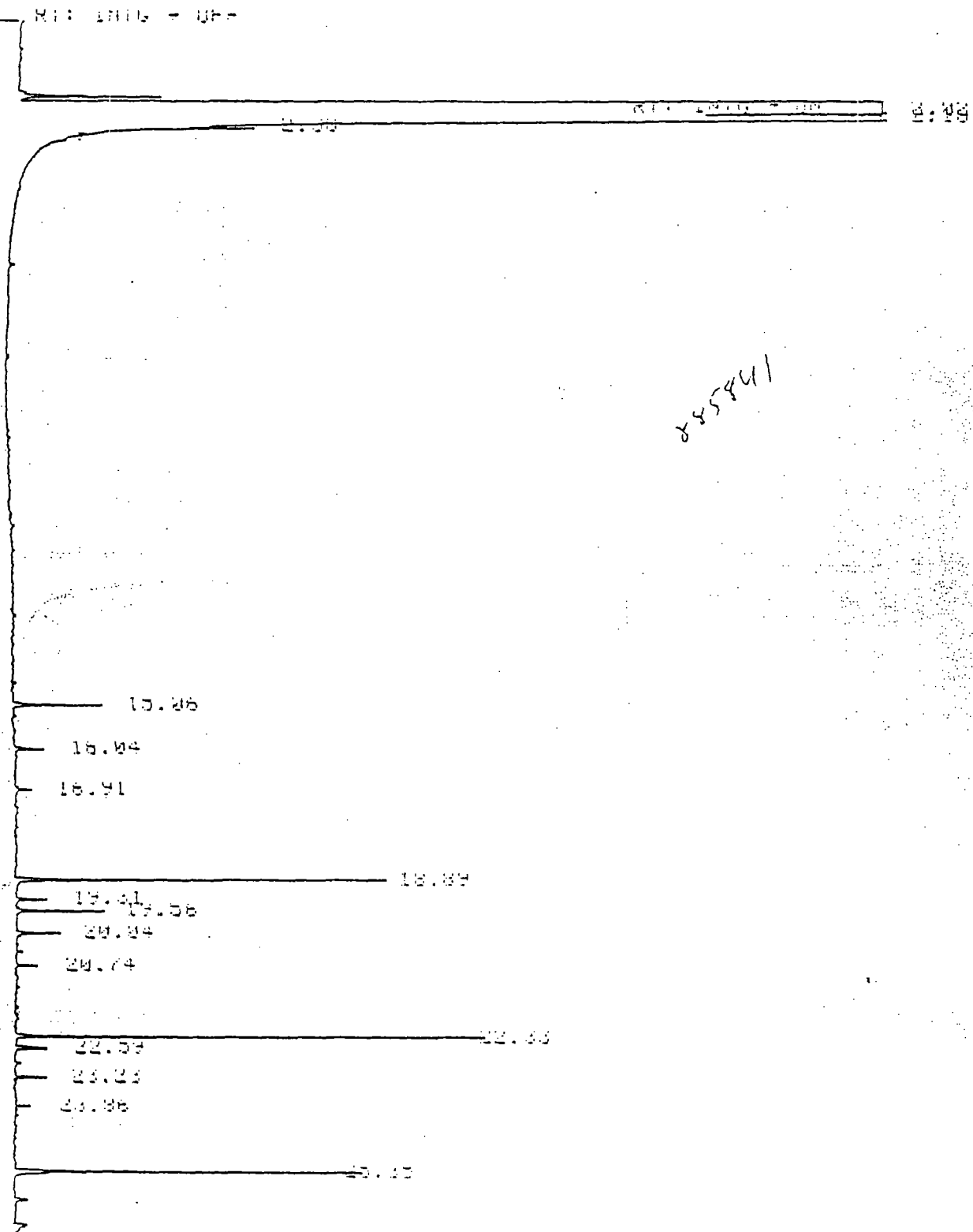
ASP 1 580WH SAMPLER INJECTION @ 22:41 AUG 24, 1988
SAMPLE # : [illegible]

GAS-DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

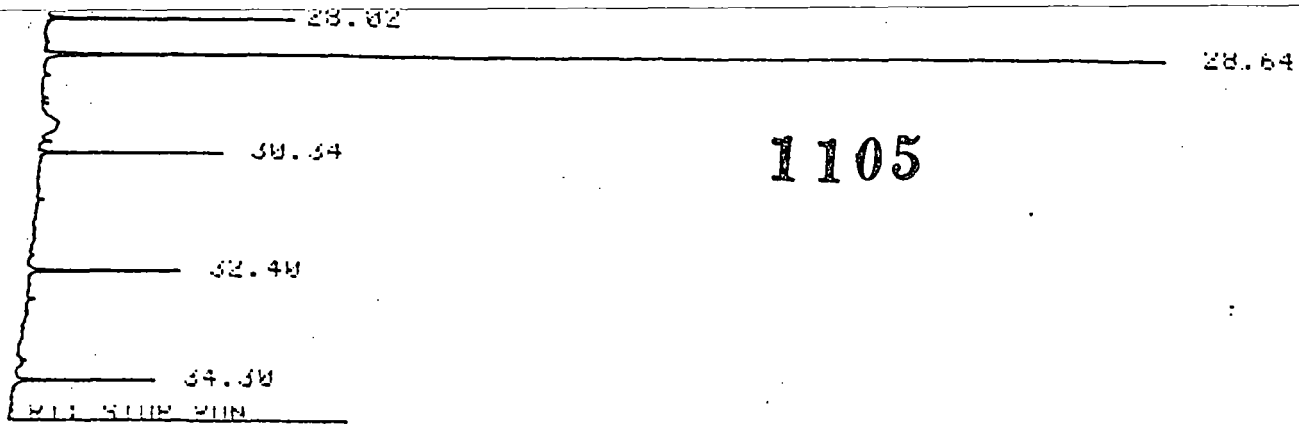
1105

RT	AREA	TYPE	CHL	AMOUNT	NAME
15.06	1.17	BB	5	11.666	GASOLINE 5
16.91	0.16	BB	6	7.218	GASOLINE 6
25.35	4.40	BB	7	69.745	DIESEL 1
28.64	21.43	BB	10	ISTD 1	PRISTANE
30.34	1.77	BB	11	40.176	DIESEL 4
32.40	1.49	BB	13	59.913	DIESEL 6
34.30	1.44	BB	14	100.234	DIESEL 7

MULTIPLIER = 1
ISTD 1 AMT = 5



845841



1105

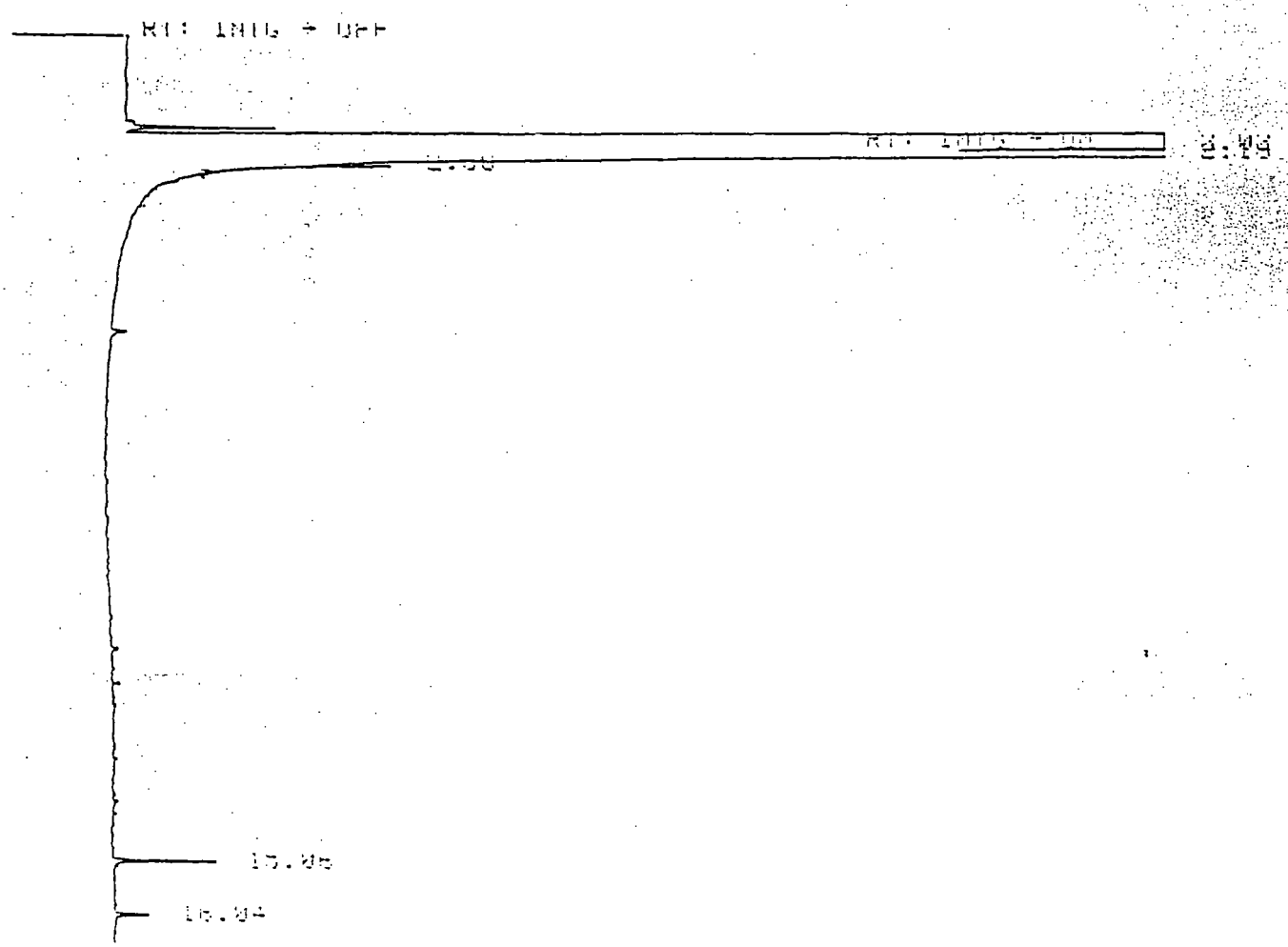
APPI 5880A SAMPLER INJECTION @ 23:28 AUG 24, 1988
SAMPLE # : ID CODE :
11 5641
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

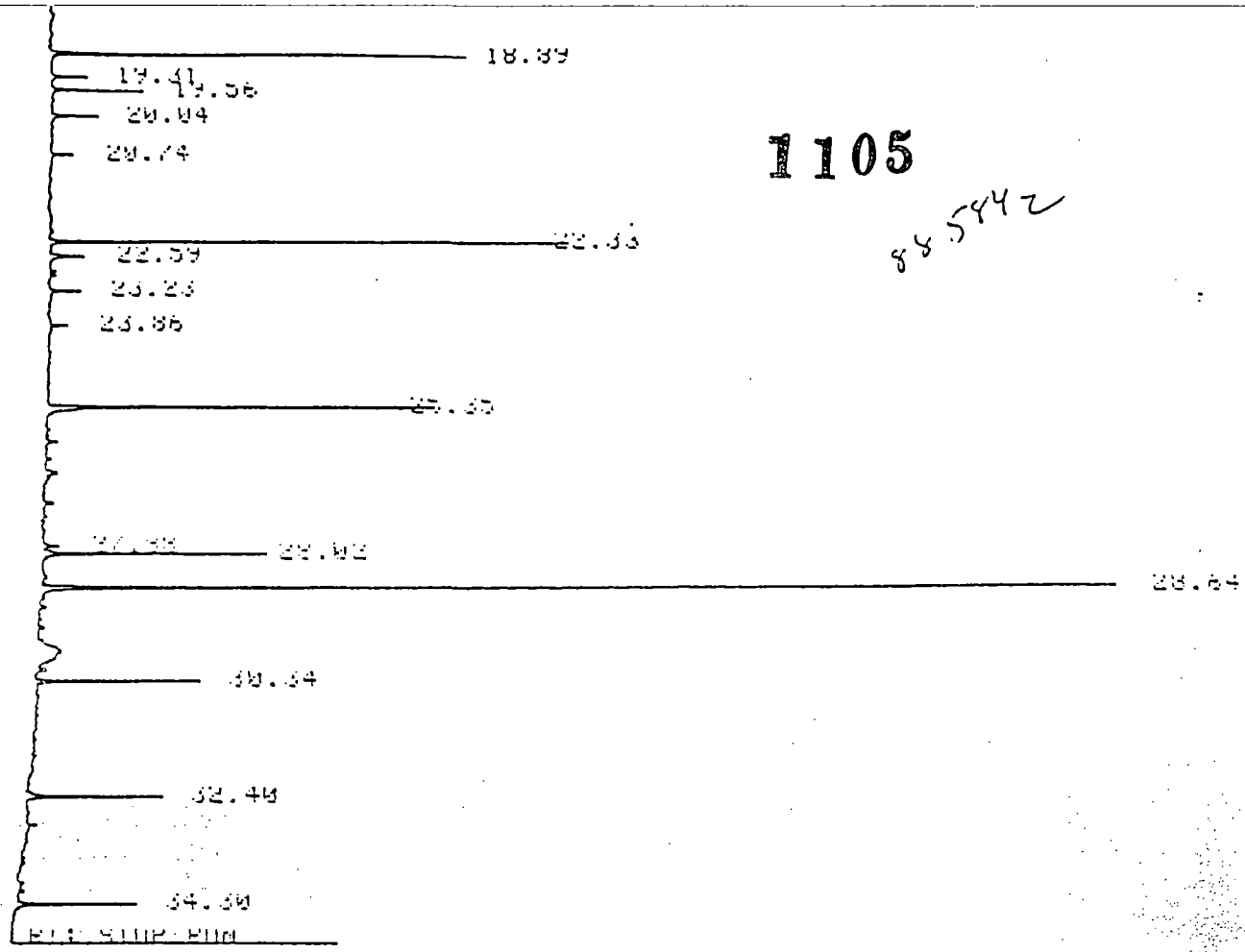
RT	AREA	TYPE	CHL	AMOUNT	NAME
15.06	1.55	BB	5	15.680	GASOLINE 5
16.91	0.23	BB	6	10.842	GASOLINE 6
25.35	6.04	BB	7	100.215	DIESEL 1
28.64	21.04	BB	10	ISTD 1	PRISTANE
30.34	2.41	BB	11	55.834	DIESEL 4
32.40	2.00	BB	13	81.553	DIESEL 5
34.30	1.97	BB	14	157.887	DIESEL 7

RTMM

RTMM

MULTIPLIER = 1
ISTD 1 AMT = 5





1105

885442

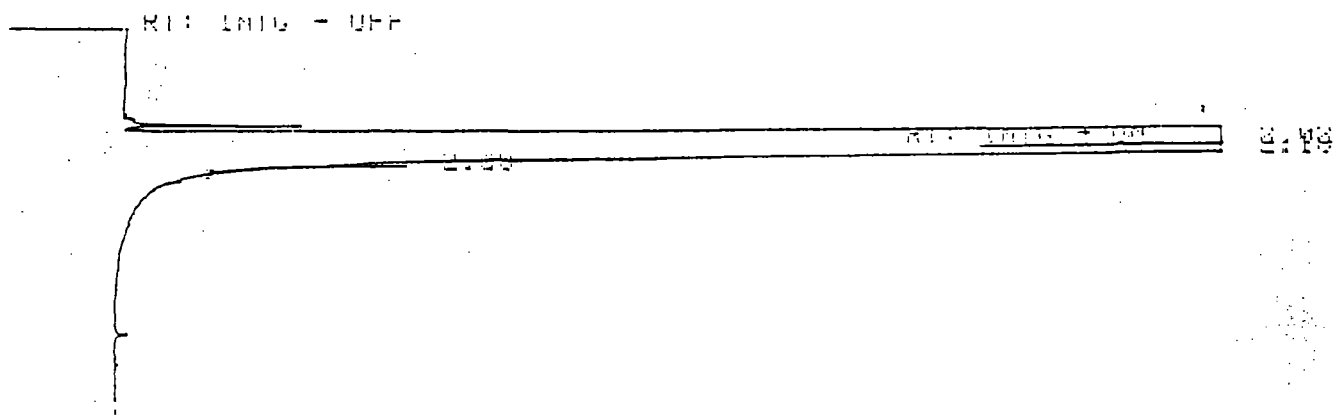
INPUT 5880H SAMPLER INJECTION @ 00:15 AUG 25, 1988
SAMPLE # : ID CODE :
12 5842
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CHL	AMOUNT	NAME
15.06	1.51	BB	5	14.981	GASOLINE 5
16.04	9.51	BB	6	23.132	GASOLINE 6
25.65	5.65	BB	7	90.682	DIESEL 1
28.64	21.44	BB	10	ISTD 1	PRISTANE
30.34	2.34	BB	11	53.215	DIESEL 4
32.40	1.70	BB	13	68.119	DIESEL 6
34.30	1.79	BB	14	135.836	DIESEL 7

ATM

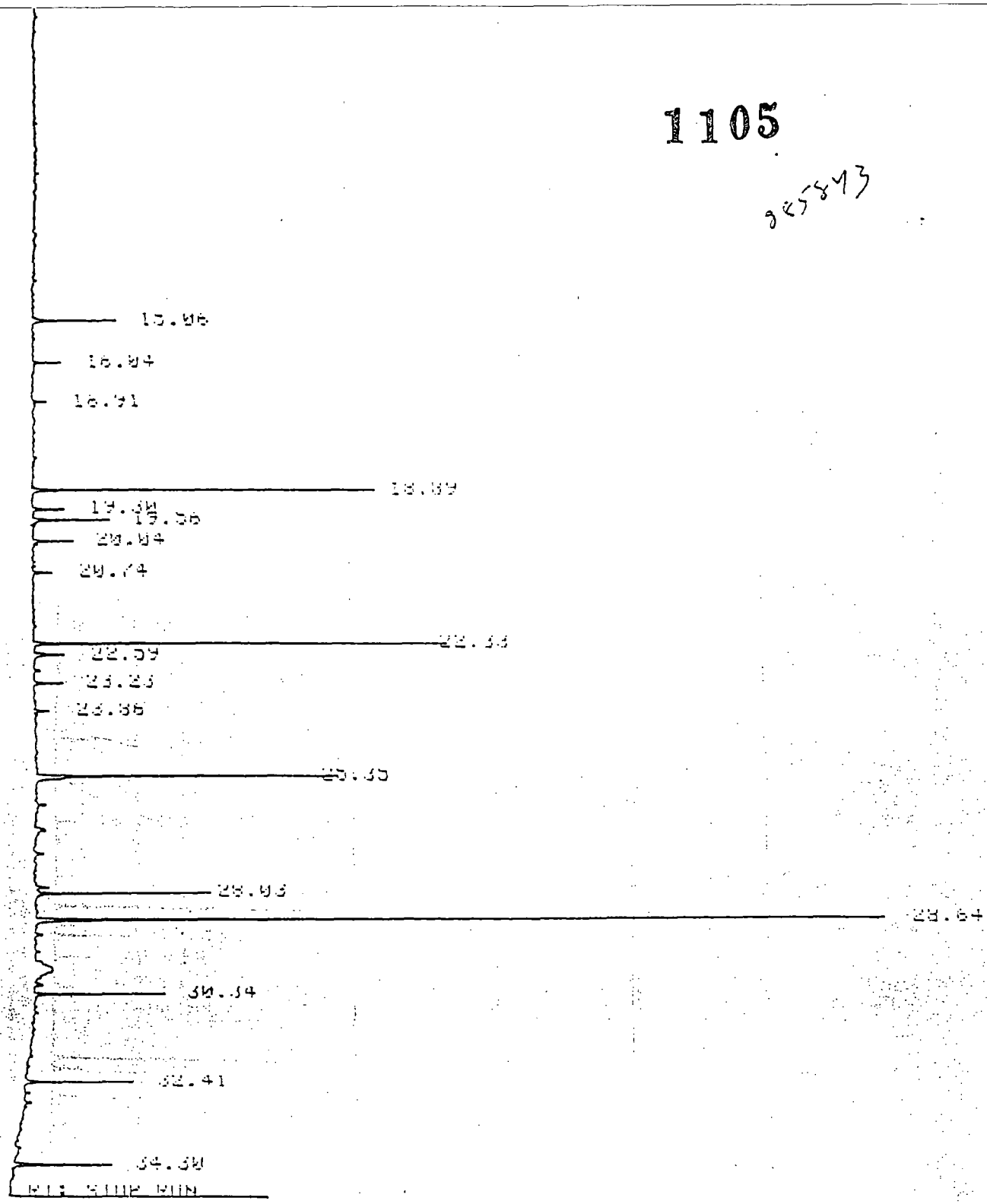
ATM

MULTIPLIER = 1
ISTD 1 AMT = 5



1105

985843



[illegible] 5880A SAMPLER INJECTION @ 01:01 AUG 25, 1988
SAMPLE # : ID CODE :
14 5846
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

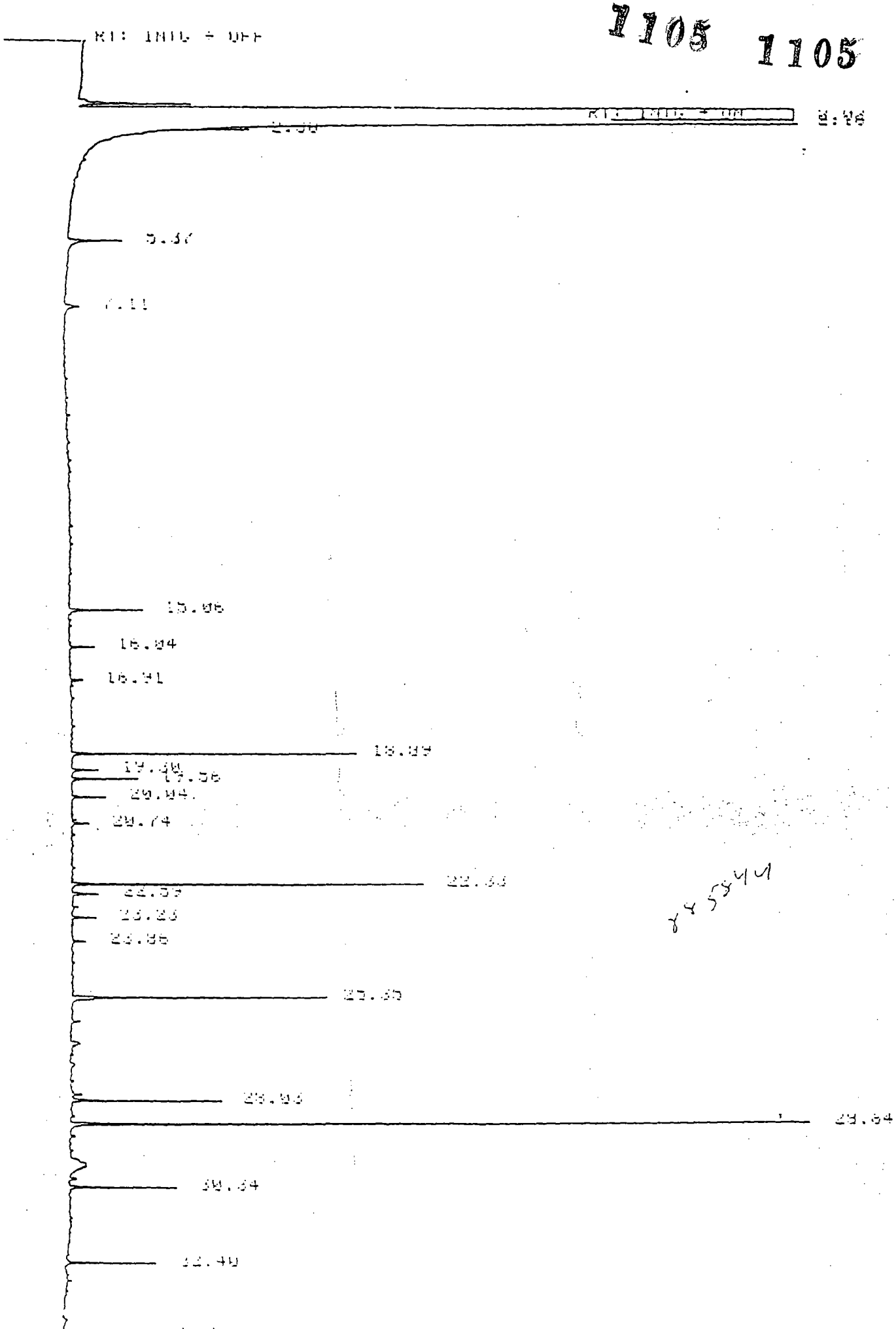
RT	AREA	TYPE	CHL	AMOUNT	NAME
15.06	1.46	BB	5	14.906	GASOLINE 5
16.91	0.22	BB	6	10.450	GASOLINE 6
25.05	5.72	BB	7	91.188	DIESEL 1
25.64	20.03	BB	10	1010 1	PRISTANE
30.34	2.24	BB	11	91.400	DIESEL 4
32.41	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

7 RTM

RTM

ISTD 1 AMT = 5

1105 1105



8455 44

RI: STOP RUN

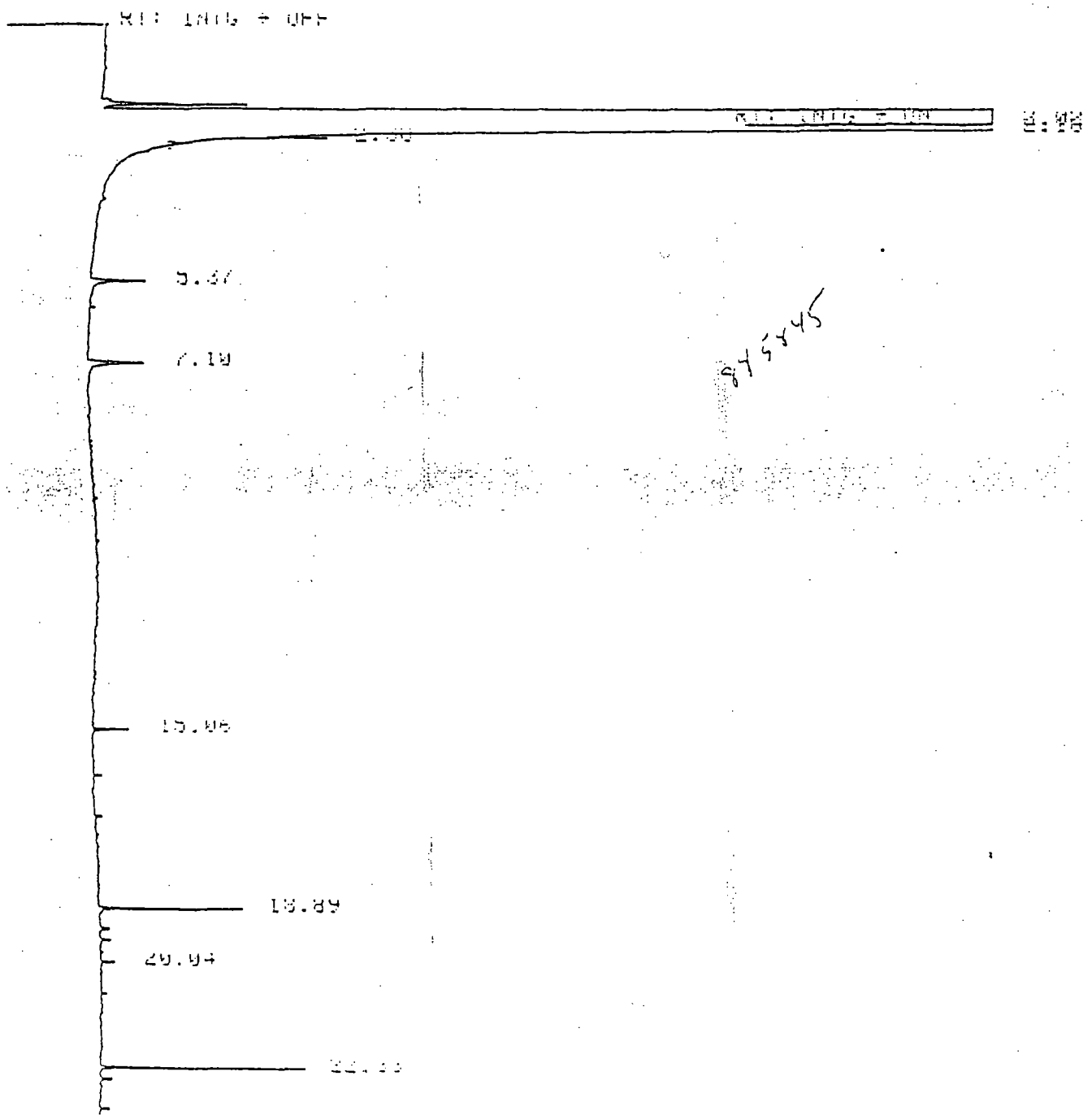
XDP3 5890A SAMPLER INJECTION @ 01:48 AUG 25, 1988
SAMPLE # : ID CODE :
14 5844
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CHL	AMOUNT	NAME
15.06	1.49	BB	5	15.442	GASOLINE 5
16.91	0.18	BB	6	8.760	GASOLINE 6
23.35	5.32	BB	7	89.062	DIESEL 1
28.64	20.52	BB	10	ISTD 1	PRISTANE
30.24	2.24	BB	11	53.242	DIESEL 4
32.40	1.84	BB	13	77.435	DIESEL 6
34.30	1.66	BB	14	129.766	DIESEL 7

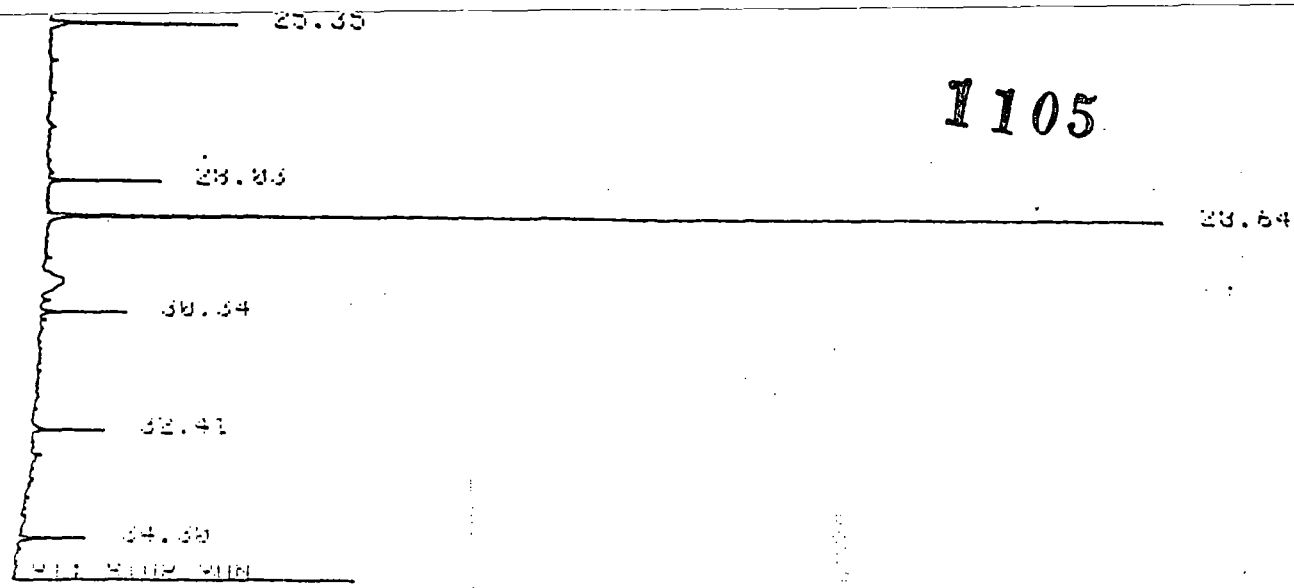
7 BTM

7 BTM

MULTIPLIER = 1
ISTD 1 AMT = 5



845845



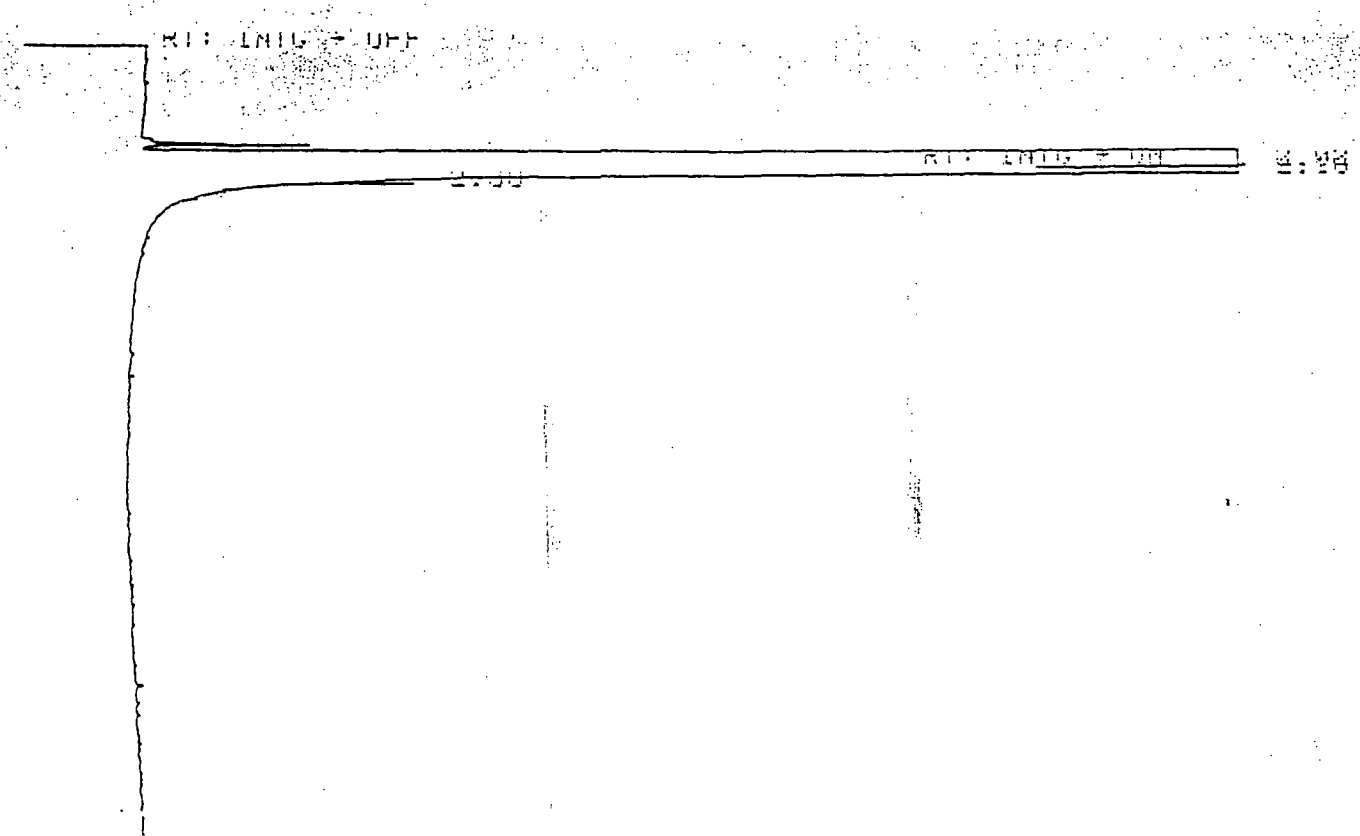
[illegible] 5880H SAMPLER INJECTION @ 02:35 AUG 25, 1988
SAMPLE # : ID CODE :
15 5845
GAS/DIESEL INTERNAL STD METHOD
1510 COMPENSATED ANALYSIS

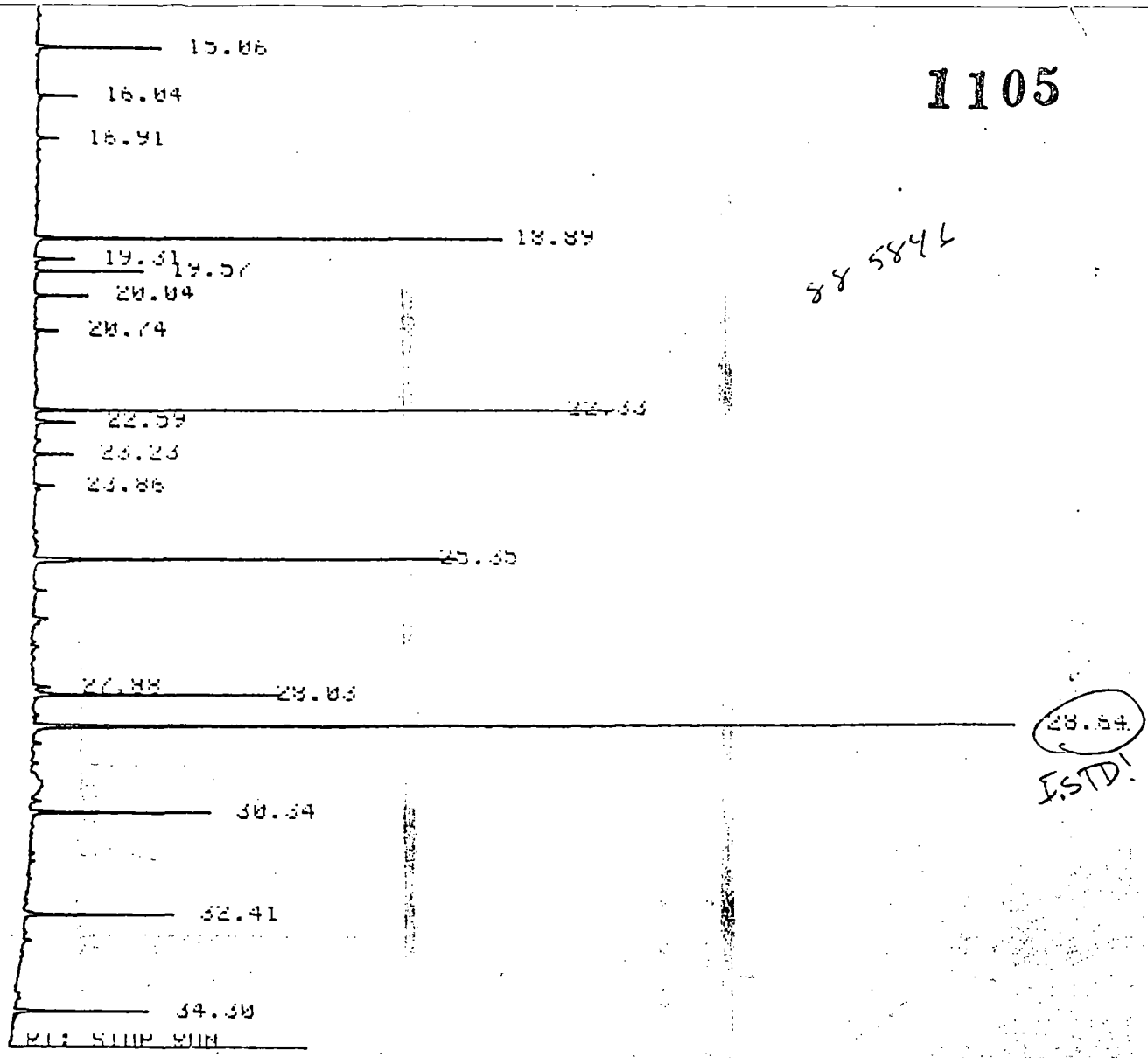
RT	AREA	TYPE	CHL	AMOUNT	NAME
15.06	0.63	BB	5	6.364	GASOLINE 5
18.89	2.24	BB	6	111.387	GASOLINE 6
25.35	2.63	BB	7	42.418	DIESEL 1
28.64	21.10	BB	10	1510 1	PRISTANE
30.34	1.20	BB	11	27.634	DIESEL 4
32.41	0.92	BB	13	37.546	DIESEL 6
34.30	0.92	BB	14	61.127	DIESEL 7

Rich

Rich

MULTIPLIER = 1
1510 1 AMT = 5





88 5846

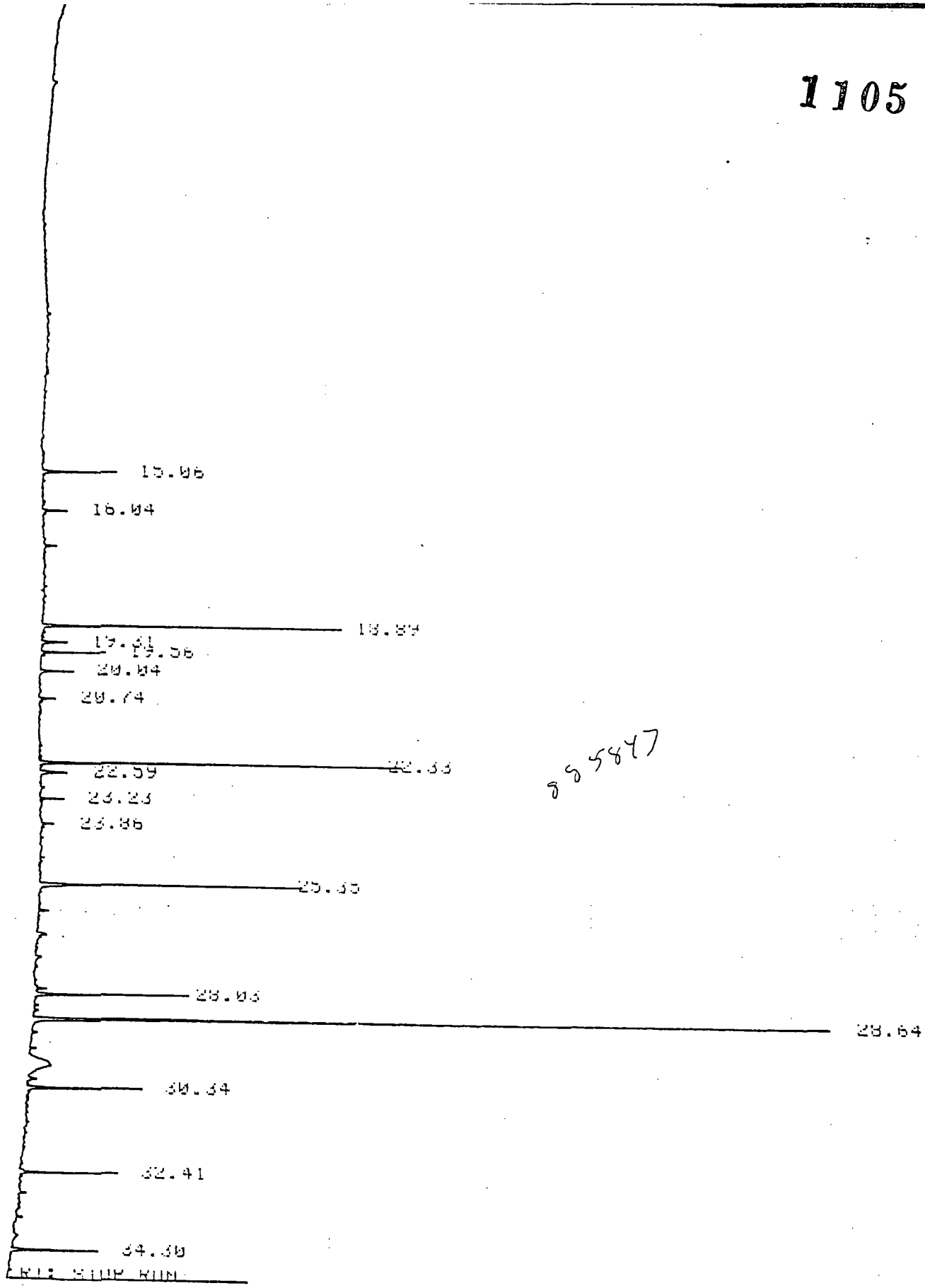
HP 5880A SAMPLER INJECTION @ 03:21 AUG 25, 1988
SAMPLE # : ID CODE :
16 5846
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CHL	AMOUNT	NAME
15.06	1.98	BB	5	20.796	GASOLINE 5
16.91	0.30	BB	6	14.552	GASOLINE 6
25.35	6.69	BB	7	117.378	DIESEL 1
28.64	20.31	BB	10	ISTD 1	PRISTANE
30.34	2.73	BB	11	65.576	DIESEL 4
32.41	2.38	BB	13	108.162	DIESEL 6
34.30	2.09	BB	14	189.119	DIESEL 7

RTM

RTM

MULTIPLIER = 1
ISTD 1 AMT = 5



95847

[illegible] 5880H SAMPLER INJECTION @ 04:08 AUG 25, 1988
SAMPLE # : ID CODE :
17 5847
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

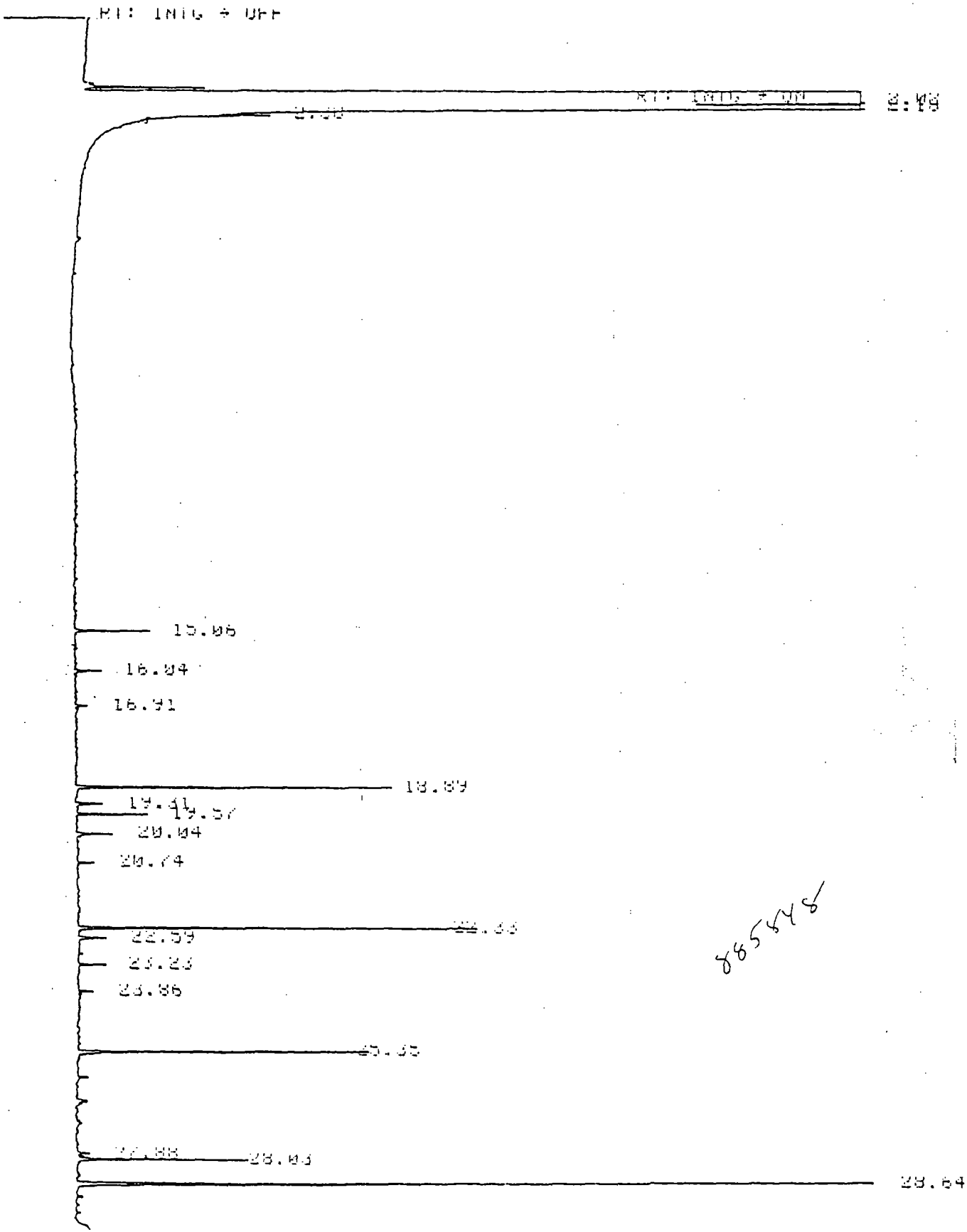
16.04	0.49	BB	5	[illegible]	GASOLINE 5
25.35	5.28	BB	7	22.996	GASOLINE 6
28.64	20.89	BB	10	86.364	DIESEL 1
30.34	2.08	BB	11	1510 1	PRISTANE
32.41	1.68	BB	13	48.431	DIESEL 4
34.30	1.63	BB	14	69.325	DIESEL 6
				124.119	DIESEL 7

RTM

RTM

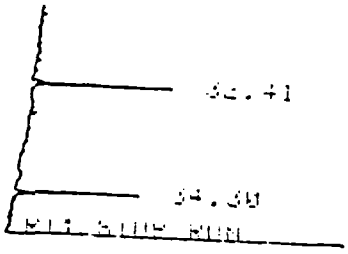
I105

MULTIPLIER = 1
1510 1 HMI = 5



885848

© SUPELCO, Bellefonte, PA Cat No 3-3887 Instl. Cat No 3-3888 Inst. [illegible]



1105

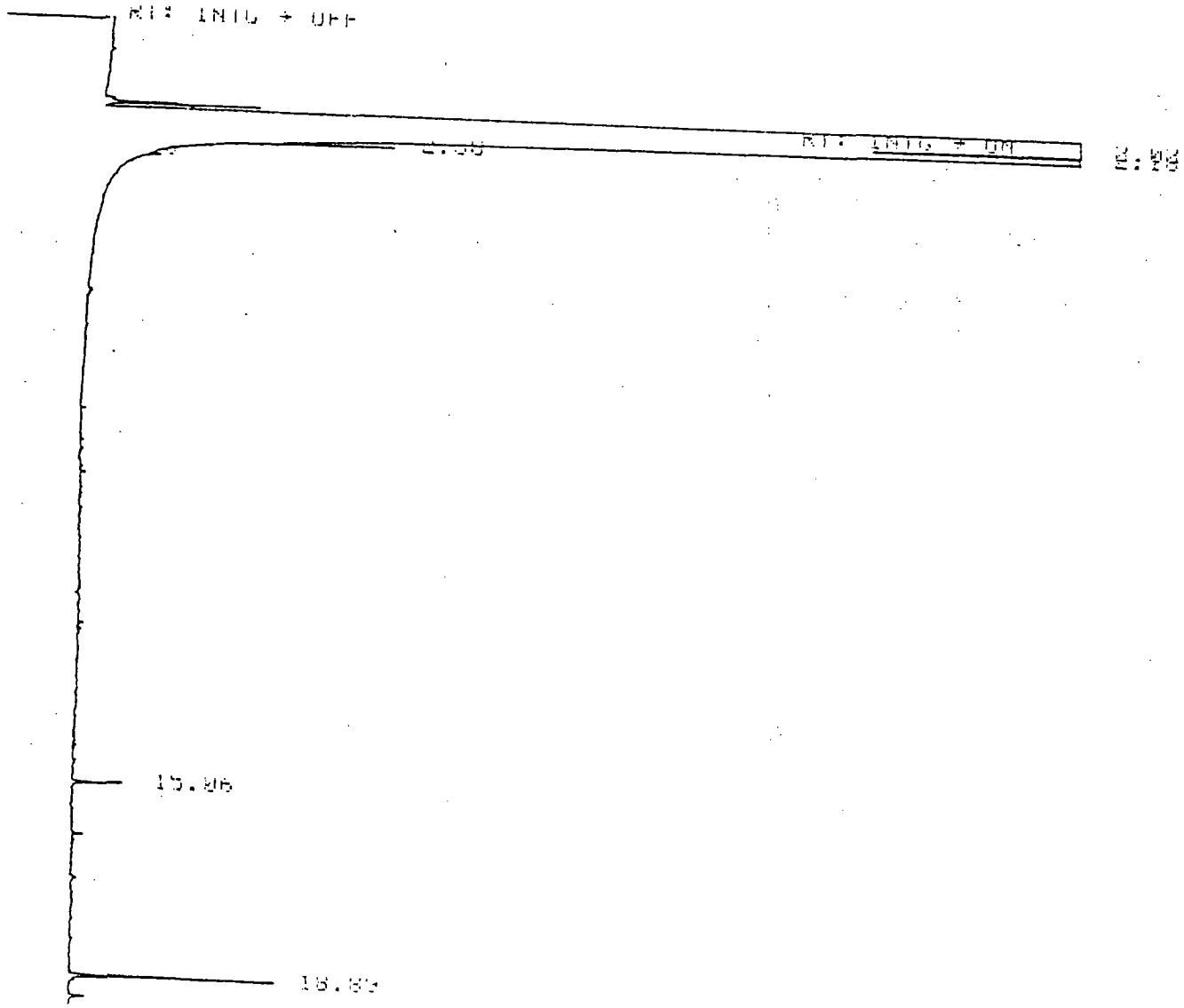
[OP] 5880A SAMPLER INJECTION @ 04:54 AUG 25, 1988
SAMPLE # : 10 CODE :
10 5848
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
15.06	1.44	BB	5	14.363	GASOLINE 5
16.91	0.21	BB	6	9.692	GASOLINE 6
25.35	0.72	BB	7	94.105	DIESEL 1
28.64	21.04	BB	10	ISTD 1	PRISTANE
30.34	2.03	BB	11	53.939	DIESEL 4
32.41	1.87	BB	13	76.465	DIESEL 6
34.30	1.79	BB	14	139.664	DIESEL 7

BTEX

BTEX

MULTIPLIER = 1
ISTD 1 AMT = 5



Sand Hole 6/20

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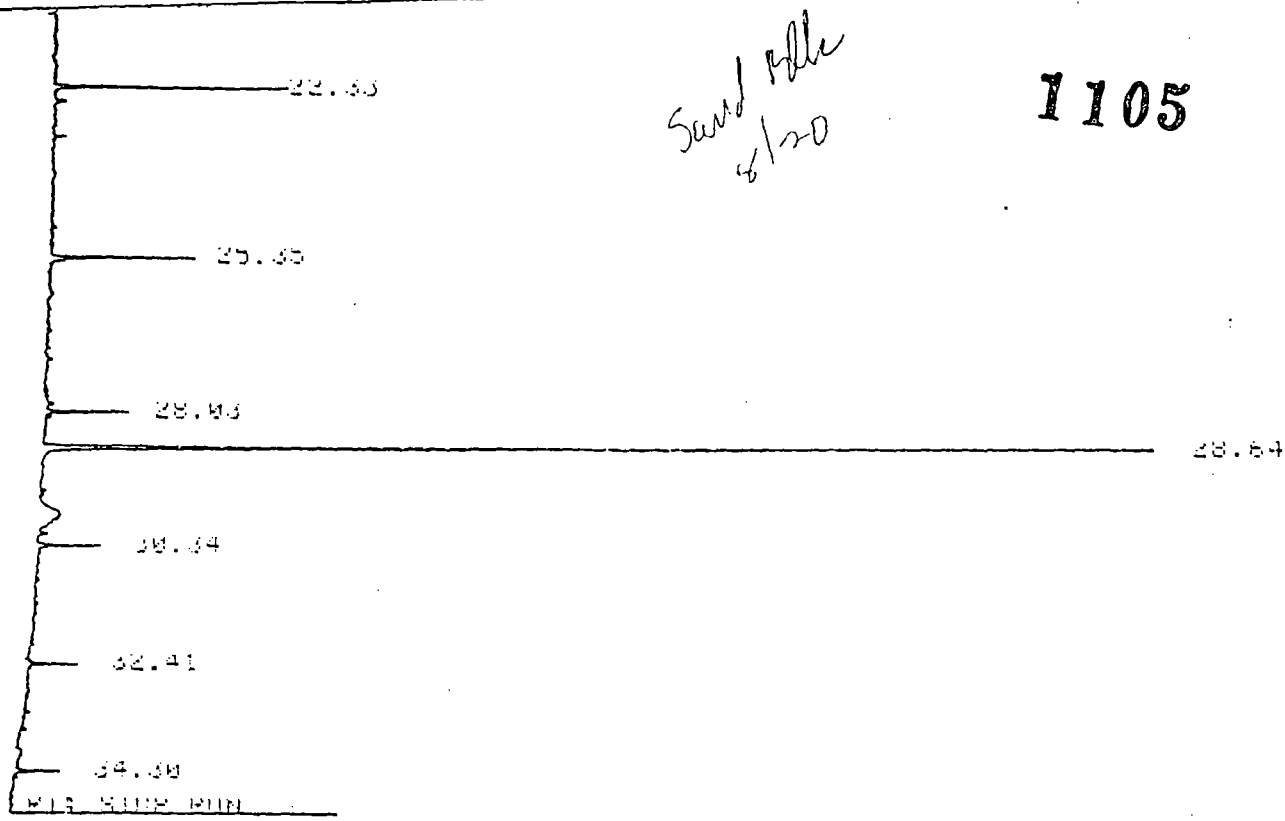


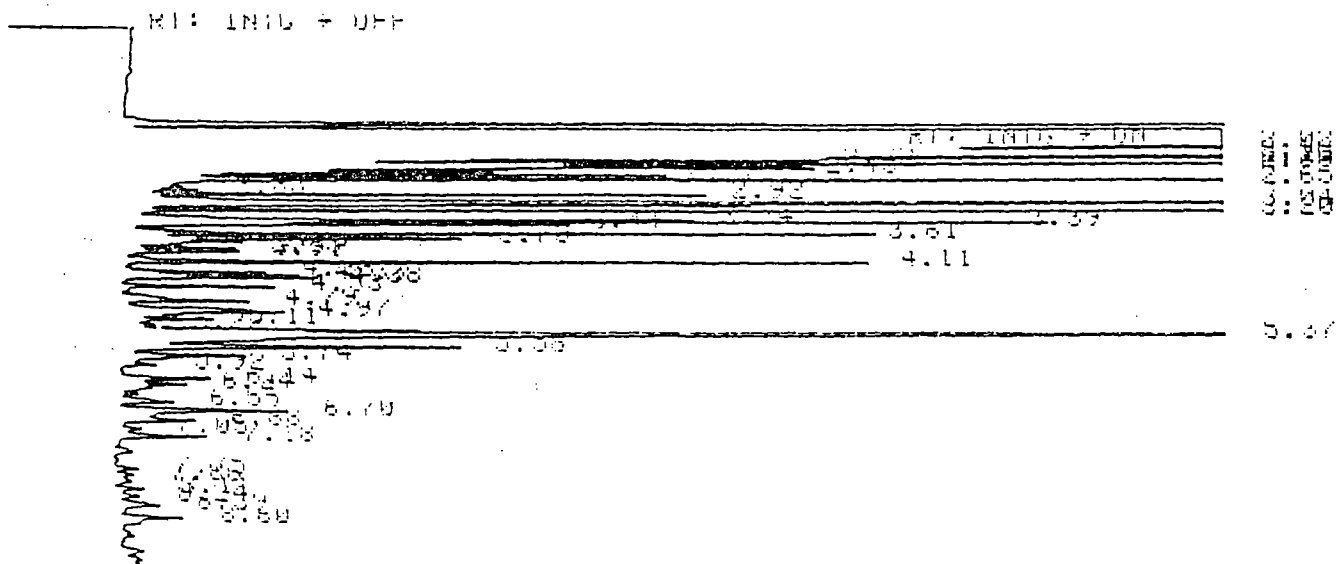
KAP 5880H SAMPLER INJECTION @ 05:41 AUG 25, 1988
SAMPLE # : 10 CODE :
19 MEI BLK 8/20
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

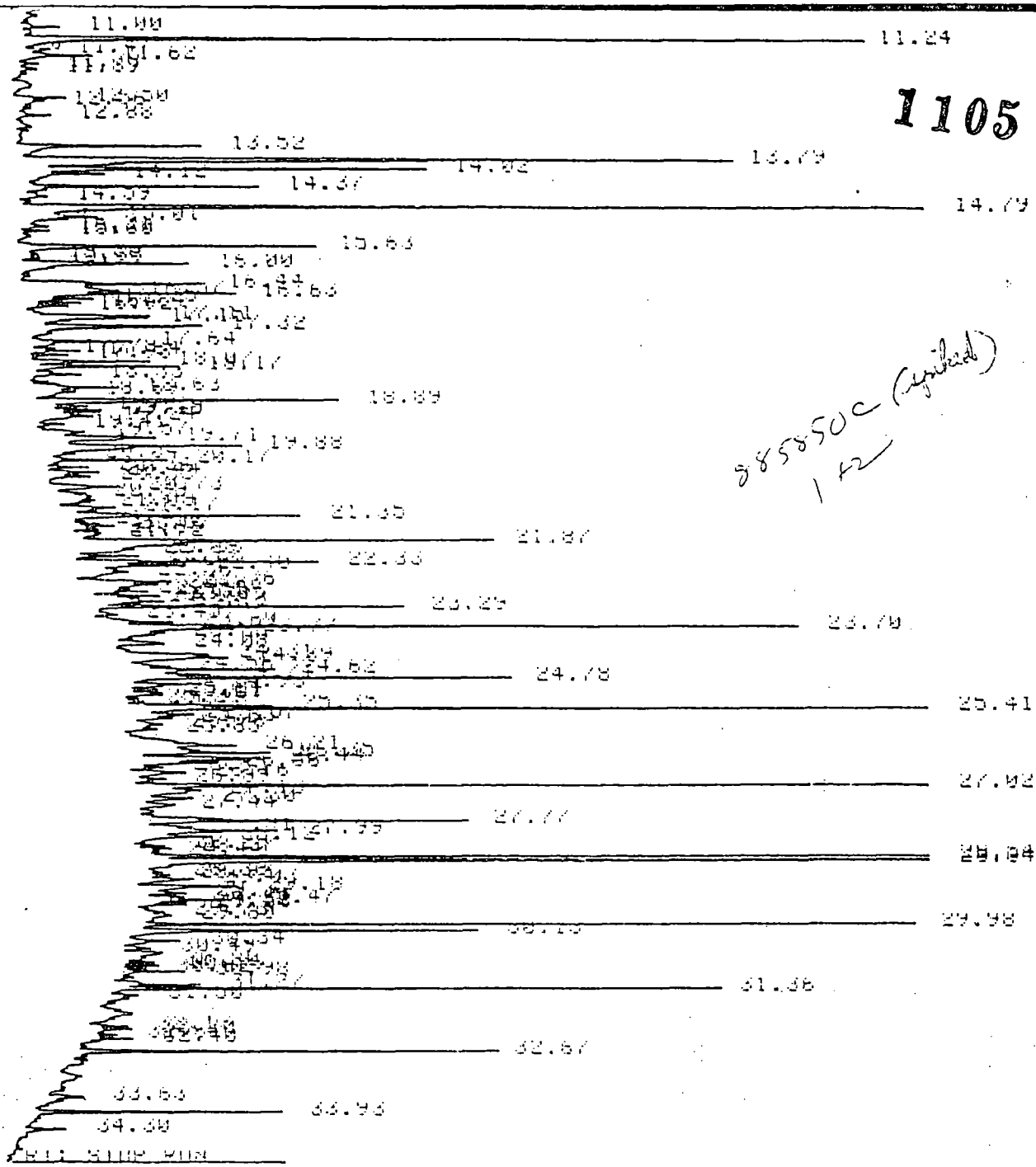
RT	AREA	TYPE	CHL	AMOUNT	NAME
15.06	0.84	BB	5	8.684	GASOLINE 5
18.89	6.13	BB	6	185.240	GASOLINE 6
25.35	2.19	BB	7	36.048	DIESEL 1
28.64	20.63	BB	10	ISTD 1	PRISTANE
30.34	0.85	BB	11	20.005	DIESEL 4
32.41	0.62	BB	13	25.946	DIESEL 6
34.30	0.65	BB	14	44.457	DIESEL 7

BTEX

BTEX

MULTIPLIER = 1
ISTD 1 AMT = 5





MPI 5880H SAMPLER INJECTION @ 08:27 AUG 25, 1988
SAMPLE # : ID CODE :
20 5850 C 1+2
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CHL	AMOUNT	NAME
9.87	16.82	BV	1	236.687	GASOLINE 1
10.23	56.34	PV	2	234.350	GASOLINE 2
11.24	19.69	BV	3	234.398	GASOLINE 3
13.79	24.35	BV	4	273.331	GASOLINE 4
14.79	21.52	BP	5	223.392	GASOLINE 5
17.32	4.95	BB	6	212.915	GASOLINE 6
25.41	18.64	VV	7	313.375	DIESEL 1
27.02	16.43	BV	8	308.576	DIESEL 2
28.54	16.61	PV	9	286.986	DIESEL 3
28.64	30.10	VB	10	ISTD 1	PRISTANE

32.67	7.20	BB	13	321.919	DIESEL 6
33.93	6.99	BB	14	316.300	DIESEL 7

MULTIPLIER = 1
ISTD 1 AMT = 5

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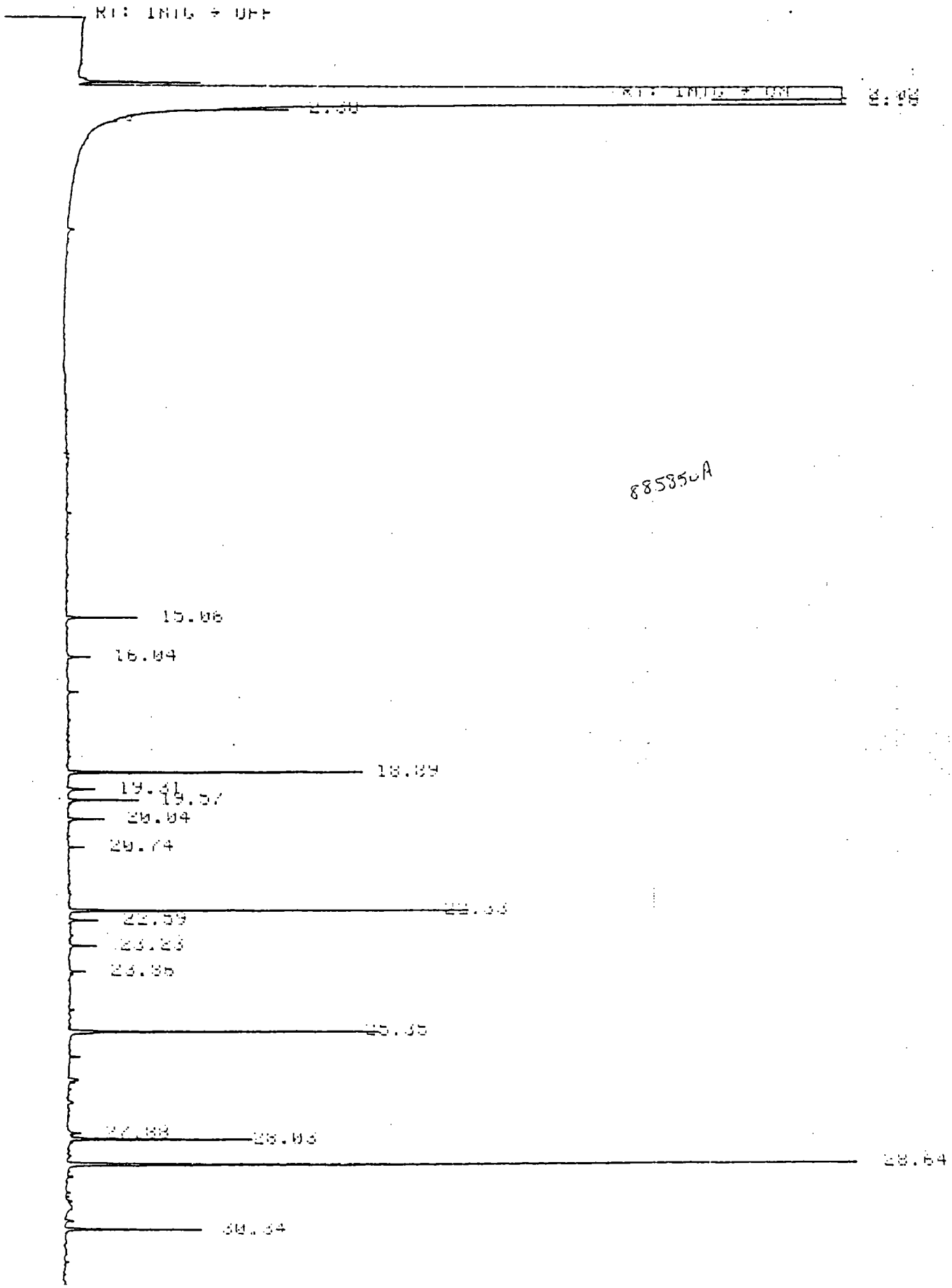


34.30
RT: STOP RUN

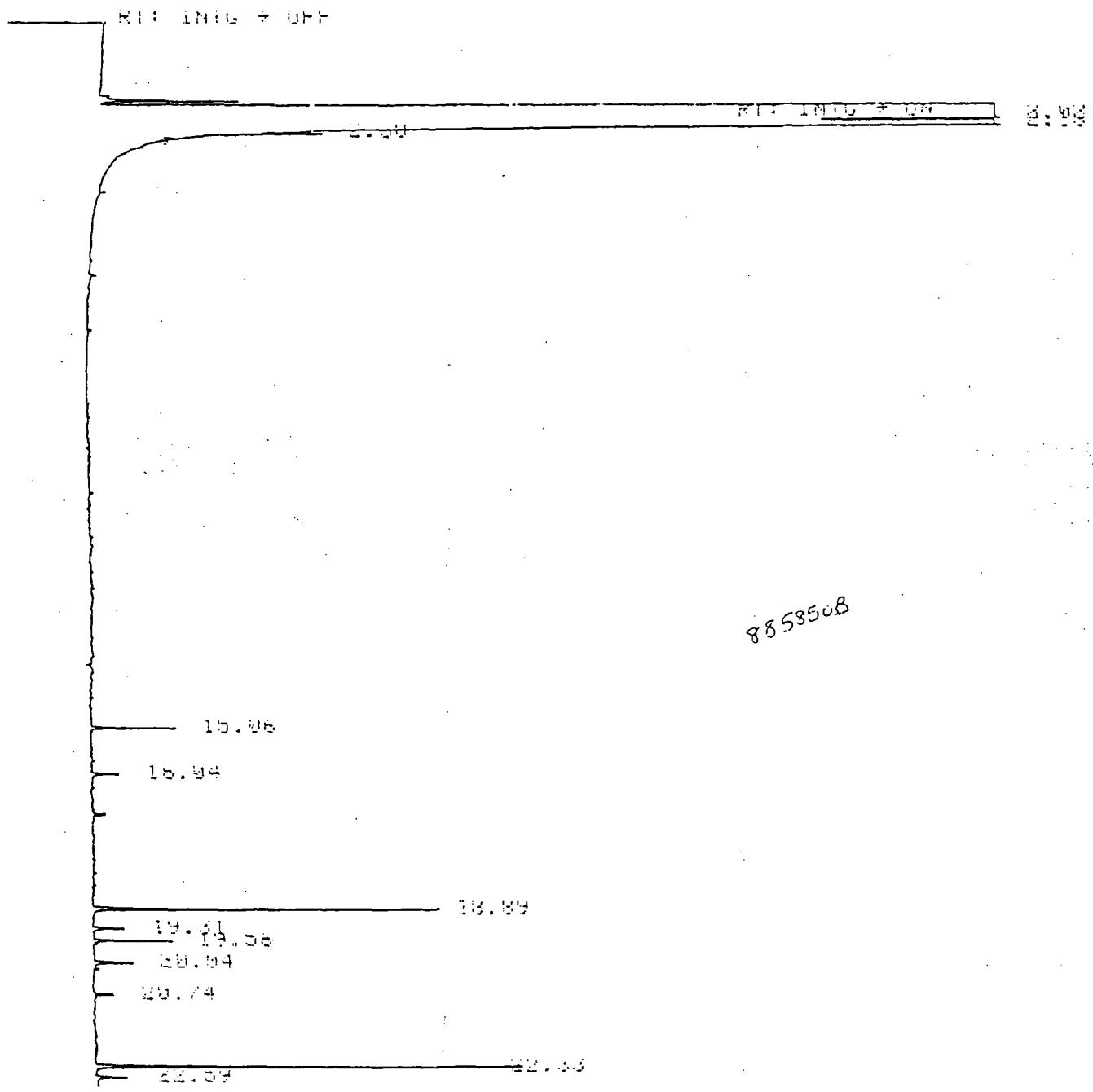
XRF] 5880H SAMPLER INJECTION @ 07:14 AUG 25, 1988
SAMPLE # : ID CODE :
21 5850 H

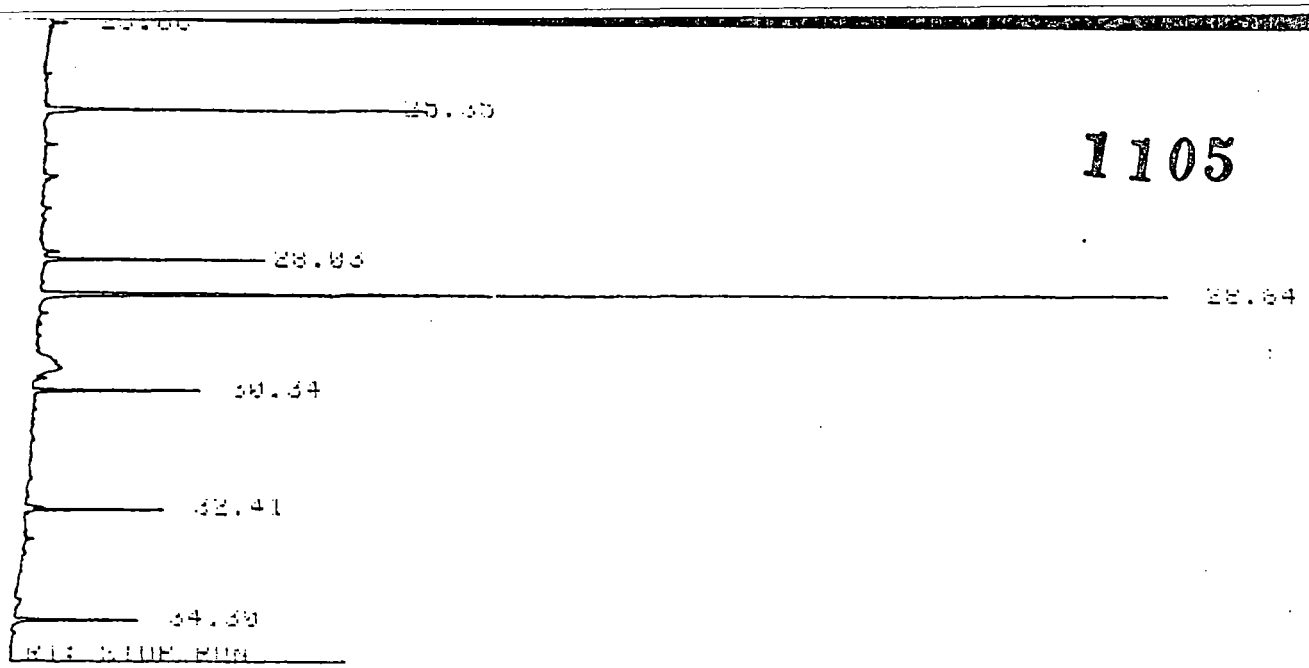
1105

GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CHL	AMOUNT	NAME
15.06	1.44	BB	5	14.327	GASOLINE 5 } RT off
16.04	0.42	BB	6	18.337	GASOLINE 6 } RT off
25.33	5.10	BB	7	93.981	DIESEL 1
28.64	21.47	BB	10	1510 1	PRISTANE
30.34	2.48	BB	11	56.299	DIESEL 4 }
32.41	2.31	BB	13	96.217	DIESEL 6 } RT off
34.30	1.86	BB	14	144.401	DIESEL 7 }

MULTIPLIER = 1
ISTD 1 AMT = 5





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[AP] 5880H SAMPLER INJECTION @ 08:01 AUG 25, 1988
SAMPLE # : ID CODE :
22 5850 8
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

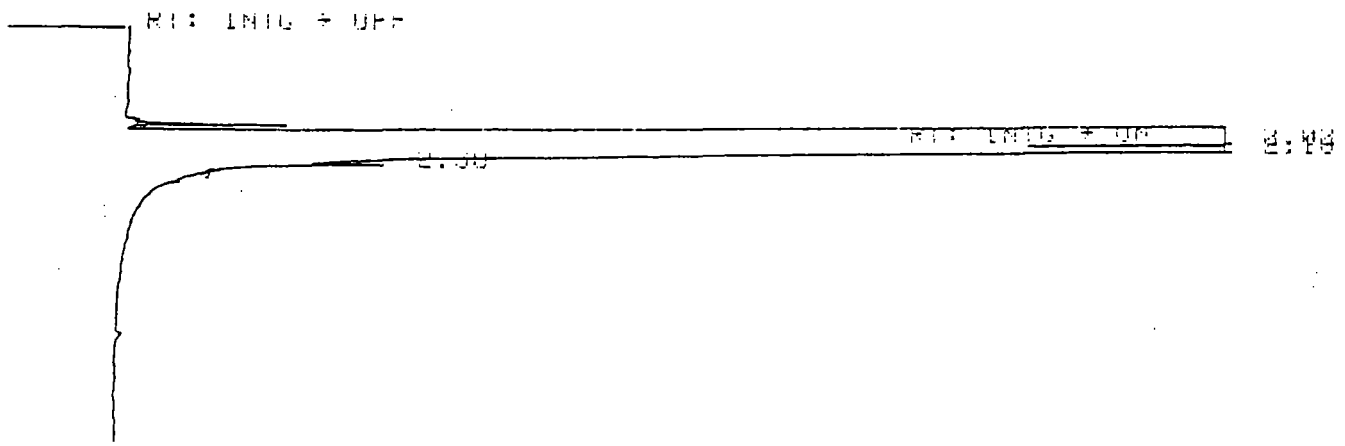
RT	AREA	TYPE	CAL	AMOUNT	NAME
15.06	1.40	BB	5	14.140	GASOLINE 5 } RT-%
16.04	0.47	BB	6	21.755	GASOLINE 6 } RT-%
25.35	5.22	BB	7	83.961	DIESEL 1
28.64	21.15	BB	10	1510 1	PRISTANE
30.34	2.16	BB	11	49.767	DIESEL 4 } RT-%
32.41	2.11	BB	13	86.709	DIESEL 6 } RT-%
34.30	1.74	BB	14	133.400	DIESEL 7 } RT-%

MULTIPLIER = 1
ISTD 1 AMT = 5

PEAK WIDTH
↑ ERROR: NUMBER EXPECTED

LIST PEAK WIDTH
PEAK WIDTH = 0.08

LIST REJECT
↑ ERROR: UNLISTABLE SETPOINT



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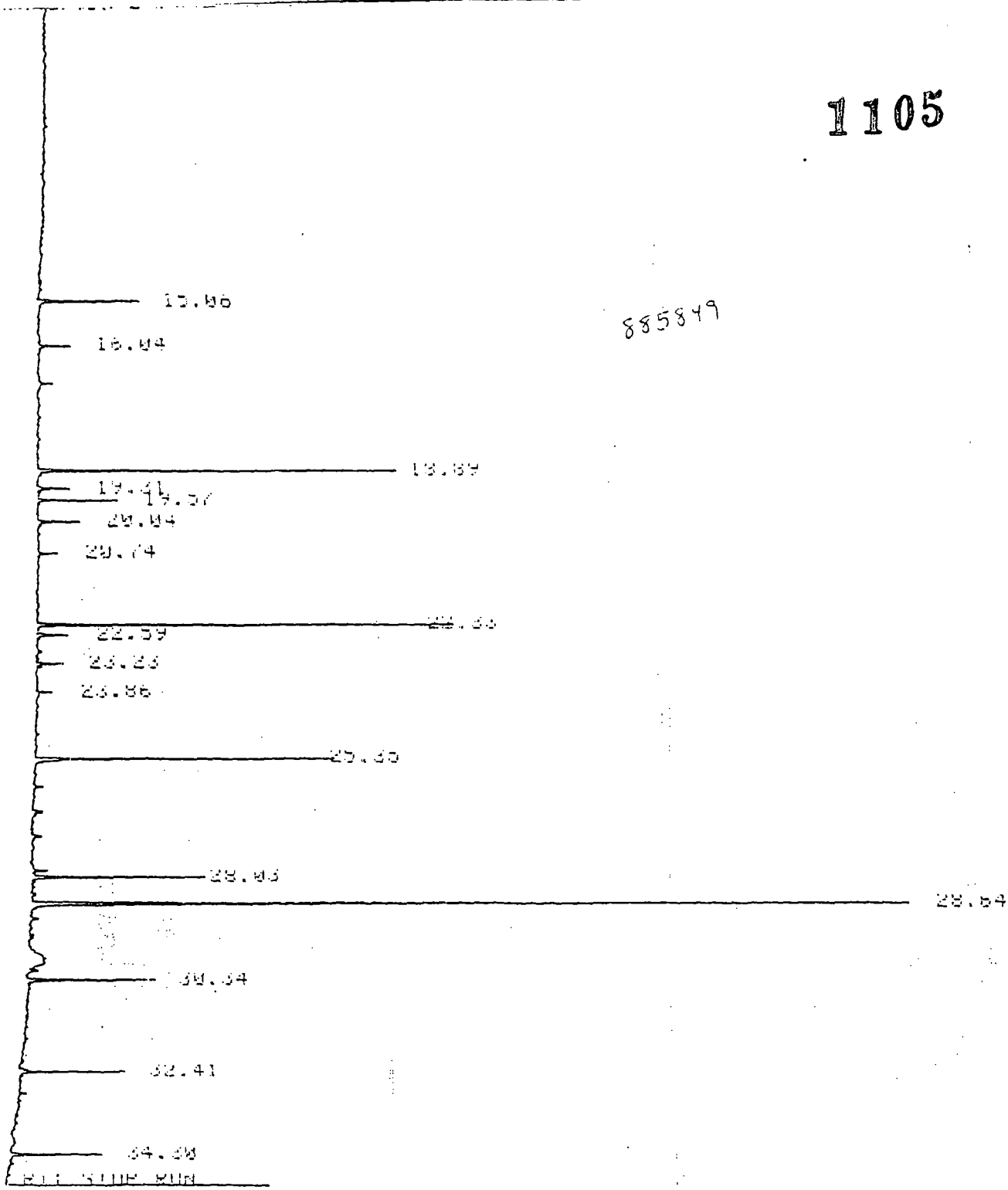
885849

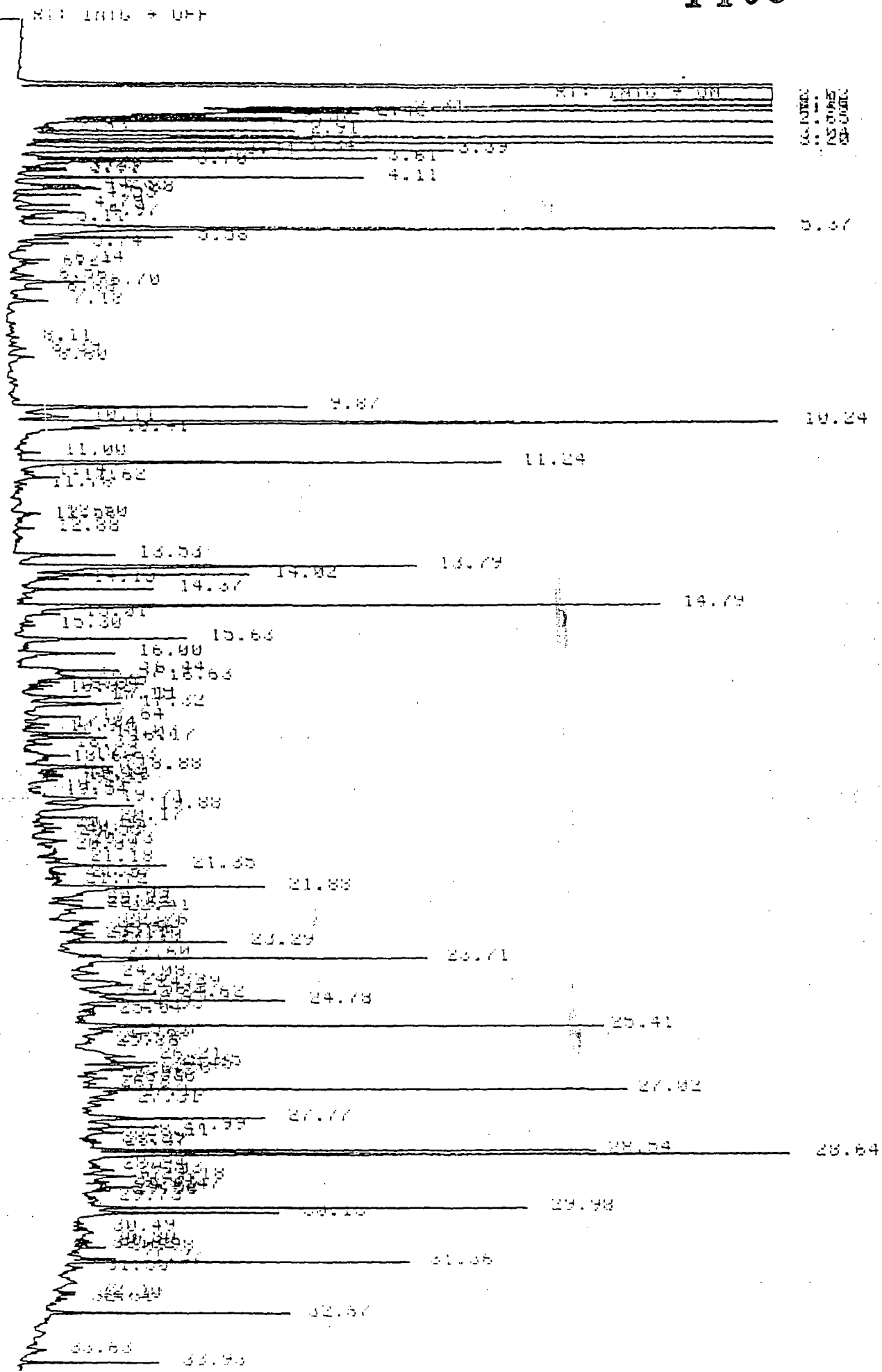


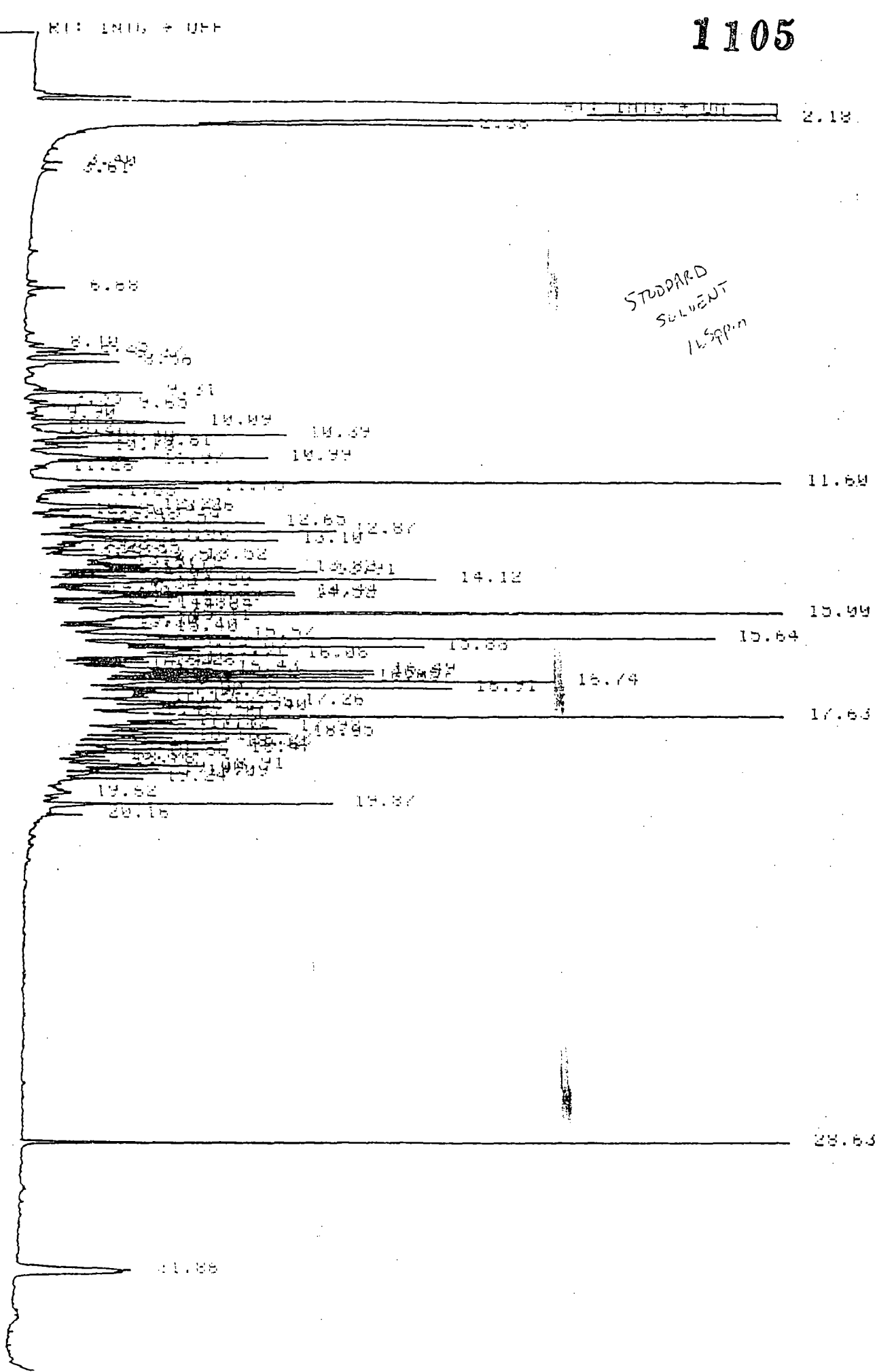
[illegible] 5880H SAMPLER INJECTION @ 08:47 AUG 25, 1988
SAMPLE # : ID CODE :
23 5849
GAS/DIESEL INTERNAL STD METHOD
(STD COMPENSATED ANALYSIS

RT	AREA	TYPE	CHL	AMOUNT	NAME
15.06	1.62	BB	5	19.370	GASOLINE 3 } 85.98
16.04	0.52	BB	6	25.177	GASOLINE 5
20.05	5.32	BB	7	31.4.2	DIESEL 1
28.64	20.04	BB	10	[illegible]	PRISTANE
30.34	2.10	BB	11	31.[illegible]	DIESEL 4
32.41	1.91	BB	13	31.8[illegible]	DIESEL 6 } 85.91

MULTIPLIER = 1
ISTD 1 AMT = 5

1105




2.18
STODDARD
SOLVENT
11.60
14.12
15.00
15.64
16.74
17.63
20.16
28.63

[illegible] SAMPLER INJECTION @ 13:32 AUG 25, 1988
SAMPLE # : ID CODE :
[illegible] 29 STUD. SULV
[illegible] DIESEL INTERNAL STD METHOD
[illegible] COMPENSATED ANALYSIS

RT	AREA	TYPE	CHL	AMOUNT	NAME
[illegible].90	0.45	BB	1	0.581	GASOLINE 1
[illegible].27	0.21	BV	2	0.923	GASOLINE 2
[illegible].25	0.47	BB	3	5.757	GASOLINE 3
[illegible].22	7.57	VV	4	74.946	GASOLINE 4
[illegible].80	3.00	BV	5	30.355	GASOLINE 5
[illegible].35	2.67	VV	6	136.355	GASOLINE 6
[illegible].55	21.07	BB	10	1510 1	PRISTANE
[illegible].85	1.57	BB	12	47.069	DIESEL 5

[illegible]IPLIER = 1
[illegible] 1 AMT = 5

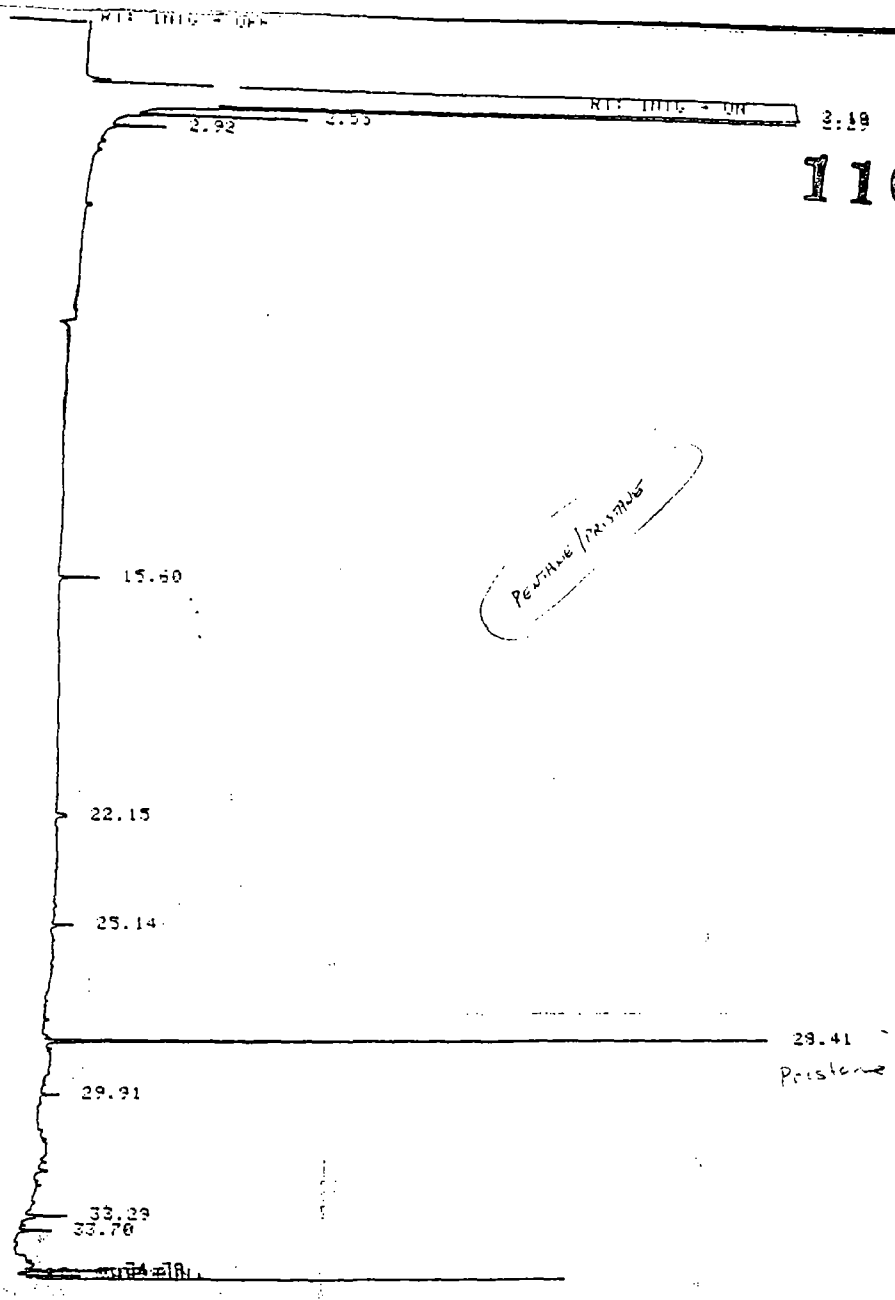
1105

[0?] 5880H SAMPLER INJECTION @ 09:34 AUG 25, 1988
SAMPLE # : 10 CODE :
24 142/166
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
9.87	9.08	BB	1	188.888	GASOLINE 1
10.24	36.87	PV	2	188.634	GASOLINE 2
11.24	13.46	BB	3	187.842	GASOLINE 3
13.79	12.57	BB	4	188.860	GASOLINE 4
14.79	16.26	BB	5	189.817	GASOLINE 5
17.32	3.40	BB	6	181.622	GASOLINE 6
25.41	12.31	BV	7	168.487	DIESEL 1
27.92	10.42	BV	8	164.416	DIESEL 2
28.54	9.18	BV	9	164.268	DIESEL 3
28.64	27.62	VB	10	ISTD 1	PRISTANE
29.98	8.13	BB	11	177.920	DIESEL 4
31.36	6.55	VB	12	172.528	DIESEL 5
32.67	4.67	BB	13	173.758	DIESEL 6
33.93	2.67	BB	14	164.456	DIESEL 7

MULTIPLIER = 1
ISTD 1 AMT = 5

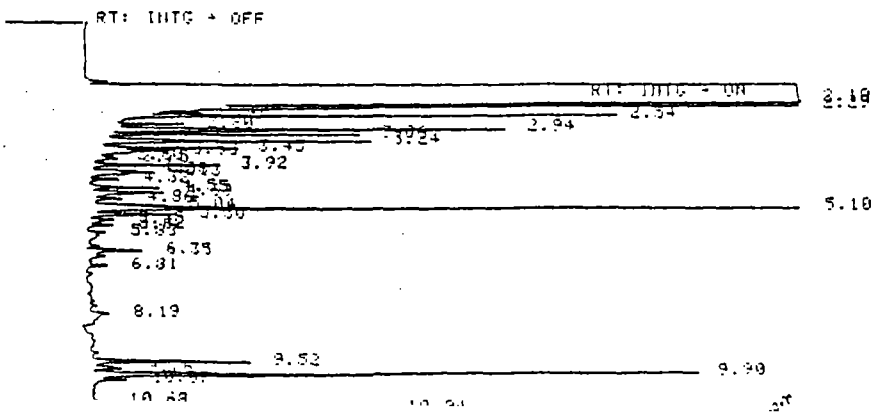
1105

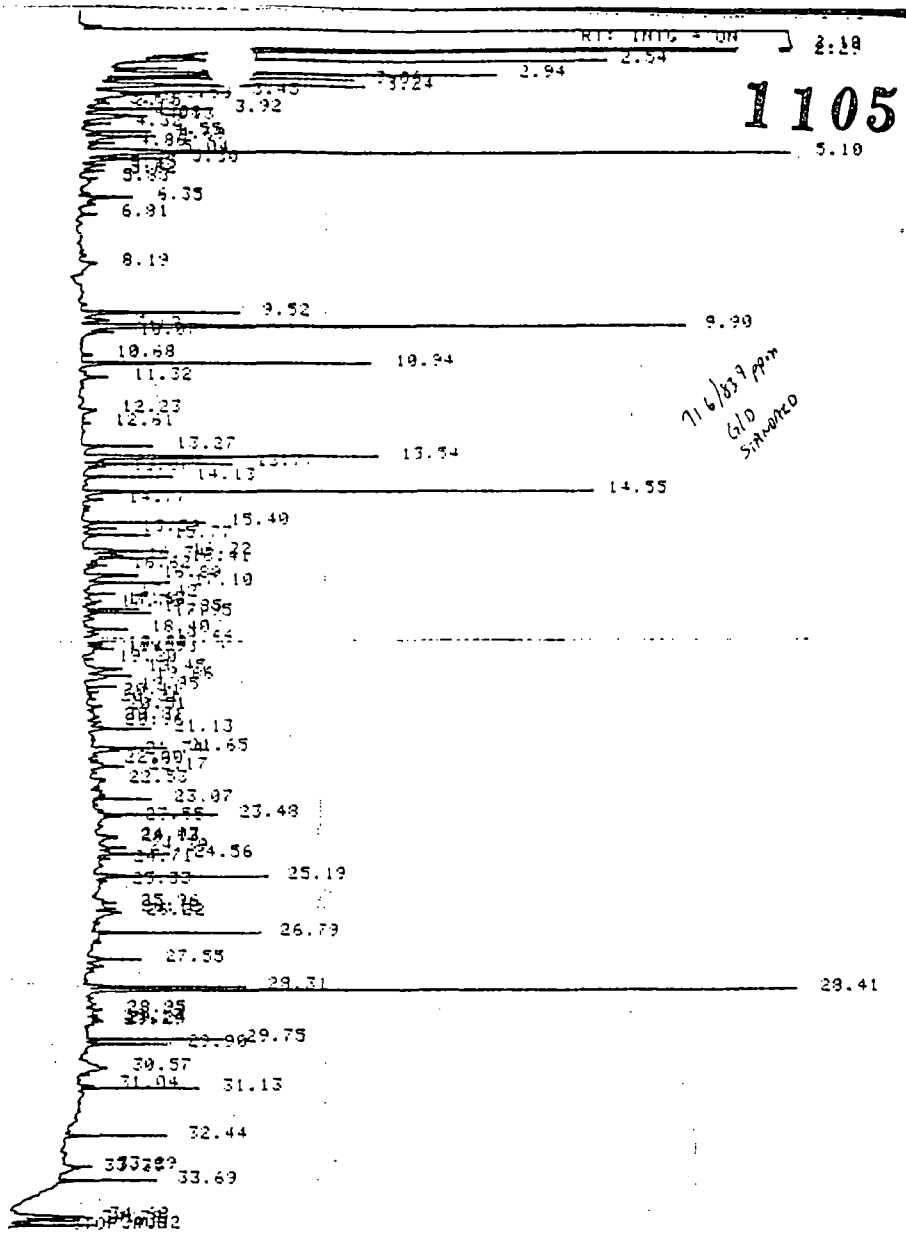


HP 5880A SAMPLER INJECTION @ 18:59 APR 15, 1988
SAMPLE # : ID CODE :
1 P/P
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
15.60	0.91	BB	5	6.101	GASOLINE 5
25.14	0.69	BB	7	16.871	DIESEL 1
29.41	38.30	BB	10	ISTD 1	PRISTANE
29.91	0.41	BB	11	14.090	DIESEL 4
33.70	0.32	BB	14	26.602	DIESEL 7

MULTIPLIER = 1
ISTD 1 AMT = 20.18





[hp] 5880A SAMPLER INJECTION @ 19:46 APR 15, 1988
SAMPLE # : ID CODE :
2 1UL/L G/D
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
9.52	5.20	BB	1	72.187	GASOLINE 1
9.90	22.72	PV	2	73.488	GASOLINE 2
10.94	8.39	BB	3	72.576	GASOLINE 3
13.54	10.86	BP	4	75.768	GASOLINE 4
14.55	11.52	BB	5	73.060	GASOLINE 5
17.10	2.67	BB	6	75.345	GASOLINE 6
25.19	3.99	BB	7	92.001	DIESEL 1
26.79	3.28	BB	8	84.243	DIESEL 2
28.31	3.43	BV	9	99.175	DIESEL 3
28.41	40.32	VB	10	ISTD 1	PRISTANE
29.75	2.63	BB	11	86.229	DIESEL 4
31.13	2.44	VB	12	90.469	DIESEL 5
32.44	2.14	BB	13	92.428	DIESEL 6
33.69	2.01	BB	14	62.347	DIESEL 7

MULTIPLIER = 1
ISTD 1 AMT = 20.18

[hp] 5880A SAMPLER INJECTION @ 19:46 APR 15, 1988
SAMPLE # : ID CODE :
2 1UL/L G/D
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

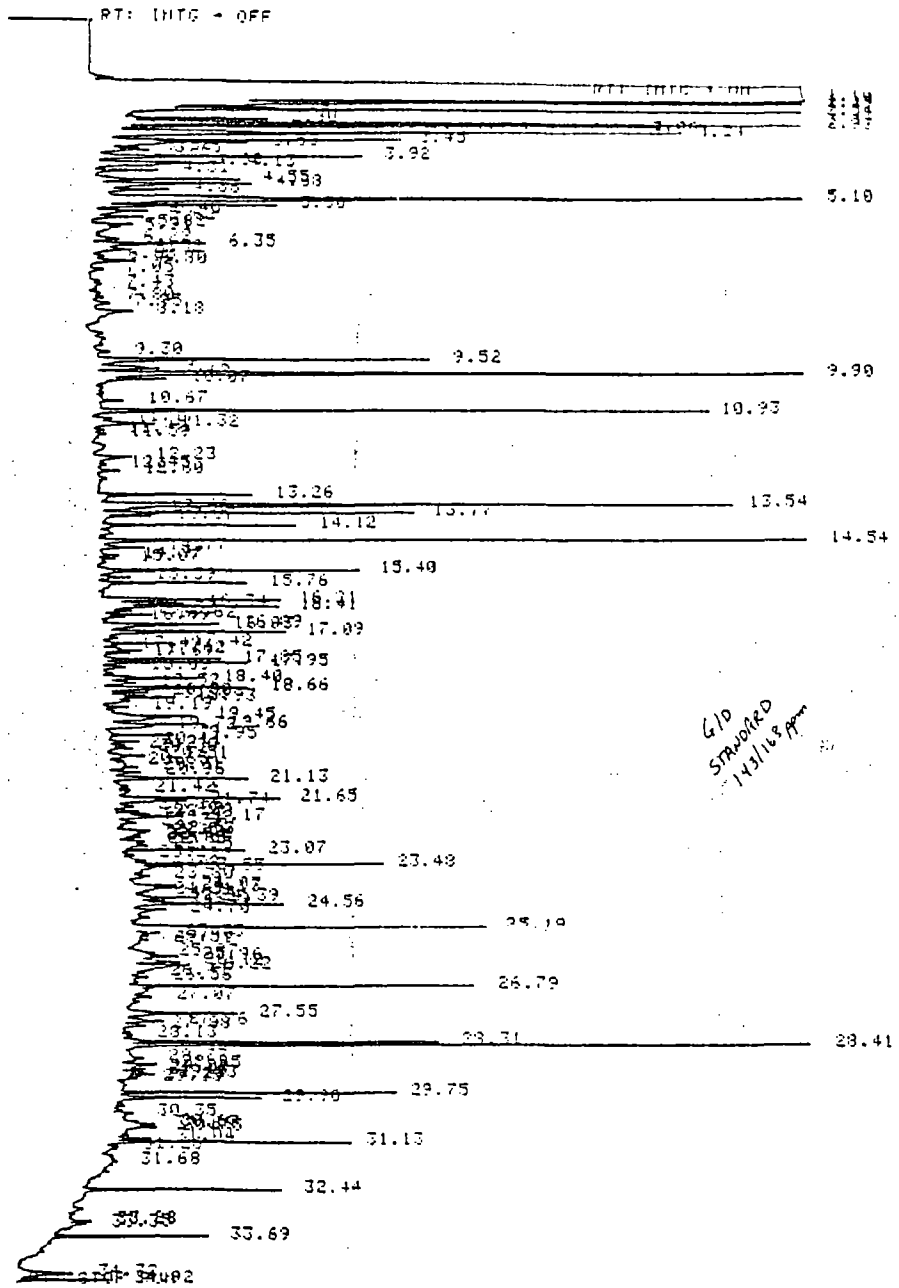
RT	AREA	TYPE	CAL	AMOUNT	NAME
9.52	5.20	BB	1	71.639	GASOLINE 1
9.90	22.72	PV	2	71.639	GASOLINE 2
10.94	8.39	BB	3	71.639	GASOLINE 3
13.54	10.86	BP	4	71.639	GASOLINE 4
14.55	11.52	BB	5	71.639	GASOLINE 5

1105

RT	AREA	TYPE	CAL	AMOUNT	NAME
9.52	5.20	BB	1	71.639	GASOLINE 1
9.90	22.72	PV	2	71.639	GASOLINE 2
10.94	8.39	BB	3	71.639	GASOLINE 3
13.54	10.86	BP	4	71.639	GASOLINE 4
14.55	11.52	BB	5	71.639	GASOLINE 5
17.10	2.67	BB	6	71.639	GASOLINE 6
25.19	3.99	BB	7	83.908	DIESEL 1
26.79	3.28	BB	8	83.908	DIESEL 2
28.31	3.43	BV	9	83.908	DIESEL 3
28.41	40.32	VB	10	ISTD 1	PRISTANE
29.75	2.63	BB	11	83.908	DIESEL 4
31.13	2.44	VB	12	83.908	DIESEL 5
32.44	2.14	BB	13	83.908	DIESEL 6
33.69	2.01	BB	14	83.908	DIESEL 7

MULTIPLIER = 1
ISTD 1 AMT = 20.18

OVEN TEMP NOT READY



EXP 1 5880A SAMPLER INJECTION @ 20:32 APR 15, 1988
SAMPLE # : ID CODE :
3 20UL/L G/D
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
9.52	11.41	BV	1	151.108	GASOLINE 1
9.90	46.21	PV	2	142.661	GASOLINE 2
10.93	17.17	BB	3	140.272	GASOLINE 3
13.54	21.02	BV	4	139.543	GASOLINE 4
14.54	23.51	BB	5	141.030	GASOLINE 5

1105

RT	AREA	TYPE	CAL	AMOUNT	NAME
9.52	1.41	BV	1	151.108	GASOLINE 1
9.90	46.21	PV	2	142.661	GASOLINE 2
10.93	17.17	BB	3	140.272	GASOLINE 3
13.54	21.02	BV	4	139.543	GASOLINE 4
14.54	23.51	BB	5	141.030	GASOLINE 5
17.09	5.40	BB	6	134.901	GASOLINE 6
25.19	8.09	BV	7	175.268	DIESEL 1
26.79	6.94	BV	8	163.559	DIESEL 2
28.31	6.34	BV	9	179.638	DIESEL 3
28.41	42.81	VB	10	ISTD 1	PRISTANE
29.75	5.24	BP	11	166.136	DIESEL 4
31.13	4.81	VB	12	171.121	DIESEL 5
32.44	4.19	BB	13	164.970	DIESEL 6
33.69	3.20	BB	14	121.876	DIESEL 7

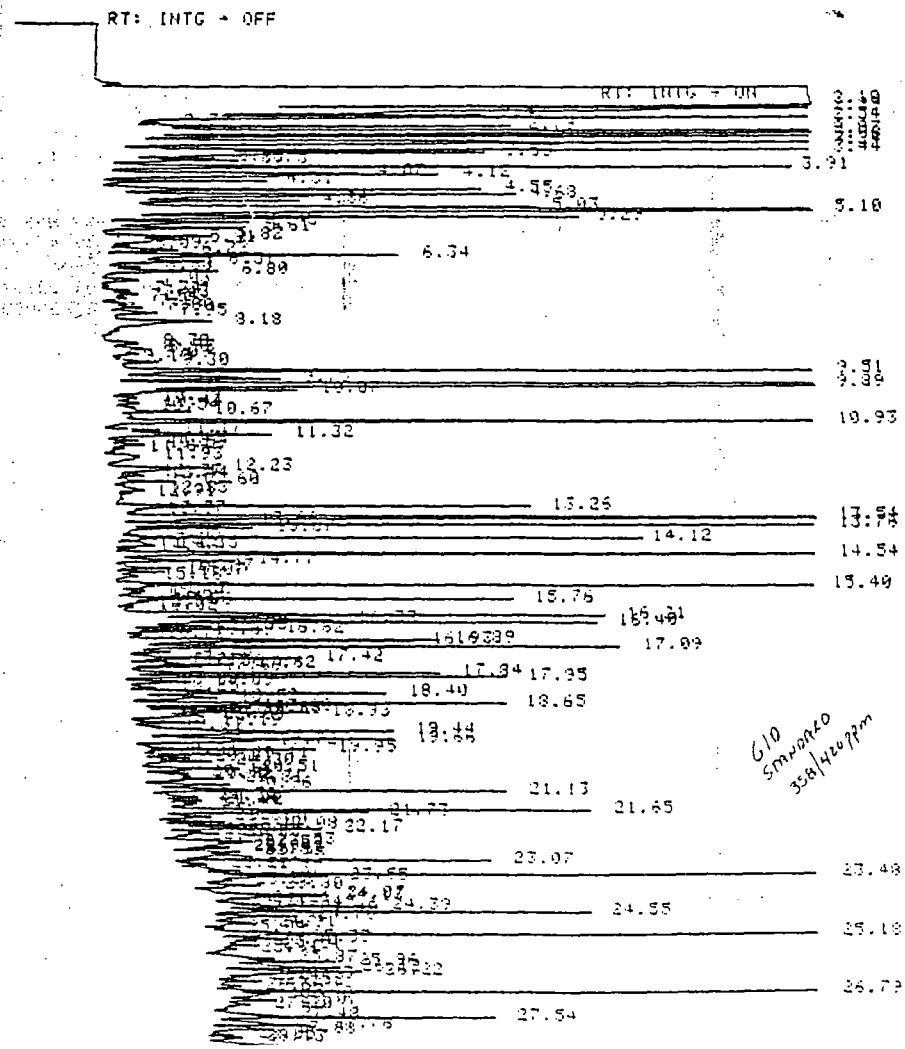
MULTIPLIER = 1
ISTD 1 AMT = 20.18

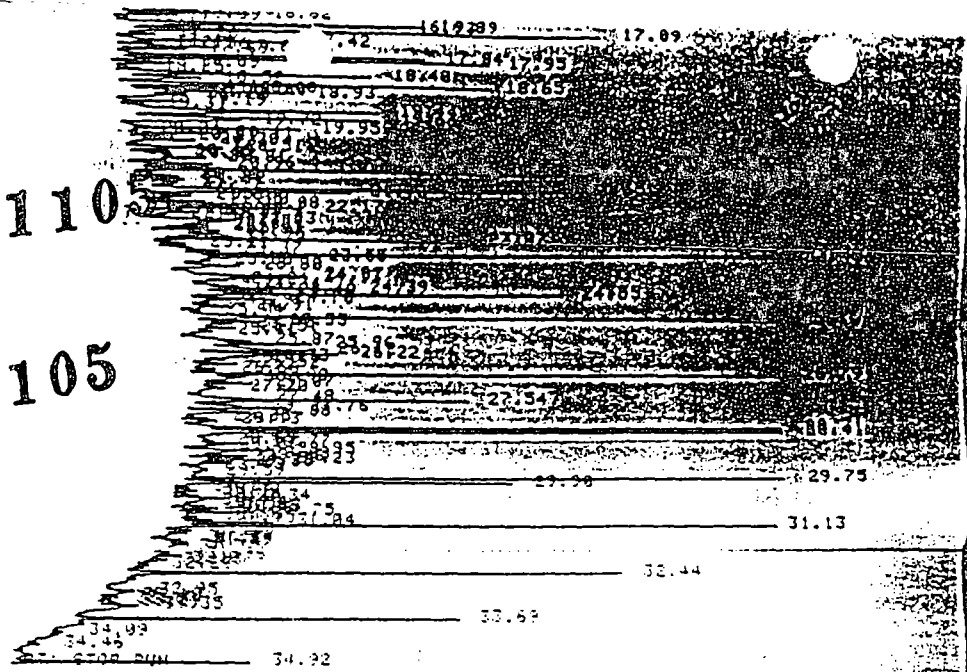
[hp] 5880A SAMPLER INJECTION @ 20:32 APR 15, 1998
SAMPLE # : ID CODE :
3 20UL/L G/D
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
9.52	11.41	BV	1	143.278	GASOLINE 1
9.90	46.21	PV	2	143.278	GASOLINE 2
10.93	17.17	BB	3	143.279	GASOLINE 3
13.54	21.02	BV	4	143.278	GASOLINE 4
14.54	23.51	BB	5	143.278	GASOLINE 5
17.09	5.40	BB	6	143.278	GASOLINE 6
25.19	8.09	BV	7	167.696	DIESEL 1
26.79	6.94	BV	8	167.696	DIESEL 2
28.31	6.34	BV	9	167.696	DIESEL 3
28.41	42.81	VB	10	ISTD 1	PRISTANE
29.75	5.24	BP	11	167.696	DIESEL 4
31.13	4.81	VB	12	167.696	DIESEL 5
32.44	4.19	BB	13	167.696	DIESEL 6
33.69	3.20	BB	14	167.696	DIESEL 7

MULTIPLIER = 1
ISTD 1 AMT = 20.18

OVEN TEMP NOT READY





[hp] 5880A SAMPLER INJECTION @ 21:18 APR 15, 1988
SAMPLE # : ID CODE :
4 SUL/L G/D
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
9.51	29.01	BV	1	367.178	GASOLINE 1
9.89	116.69	PV	2	351.969	GASOLINE 2
10.93	43.71	BP	3	347.284	GASOLINE 3
13.54	53.37	BV	4	342.465	GASOLINE 4
14.54	59.86	BV	5	345.660	GASOLINE 5
17.09	14.04	BV	6	316.407	GASOLINE 6
25.18	20.10	VV	7	391.506	DIESEL 1
26.79	16.64	PP	8	383.049	DIESEL 2
28.31	15.51	BV	9	425.636	DIESEL 3
28.41	50.07	VV	10	ISTD 1	PRISTANE
29.75	13.26	BV	11	413.158	DIESEL 4
31.13	12.15	VP	12	422.209	DIESEL 5
32.44	10.50	BB	13	412.357	DIESEL 6
33.69	8.09	BV	14	443.917	DIESEL 7

MULTIPLIER = 1
ISTD 1 AMT = 20.18

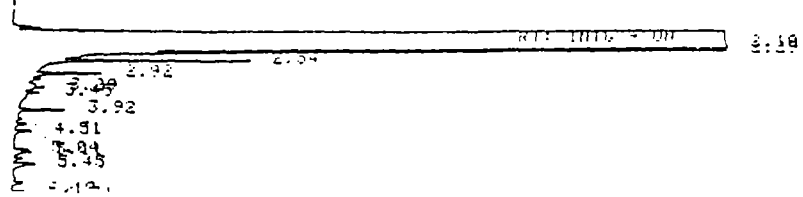
[hp] 5880A SAMPLER INJECTION @ 21:18 APR 15, 1988
SAMPLE # : ID CODE :
4 SUL/L G/D
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

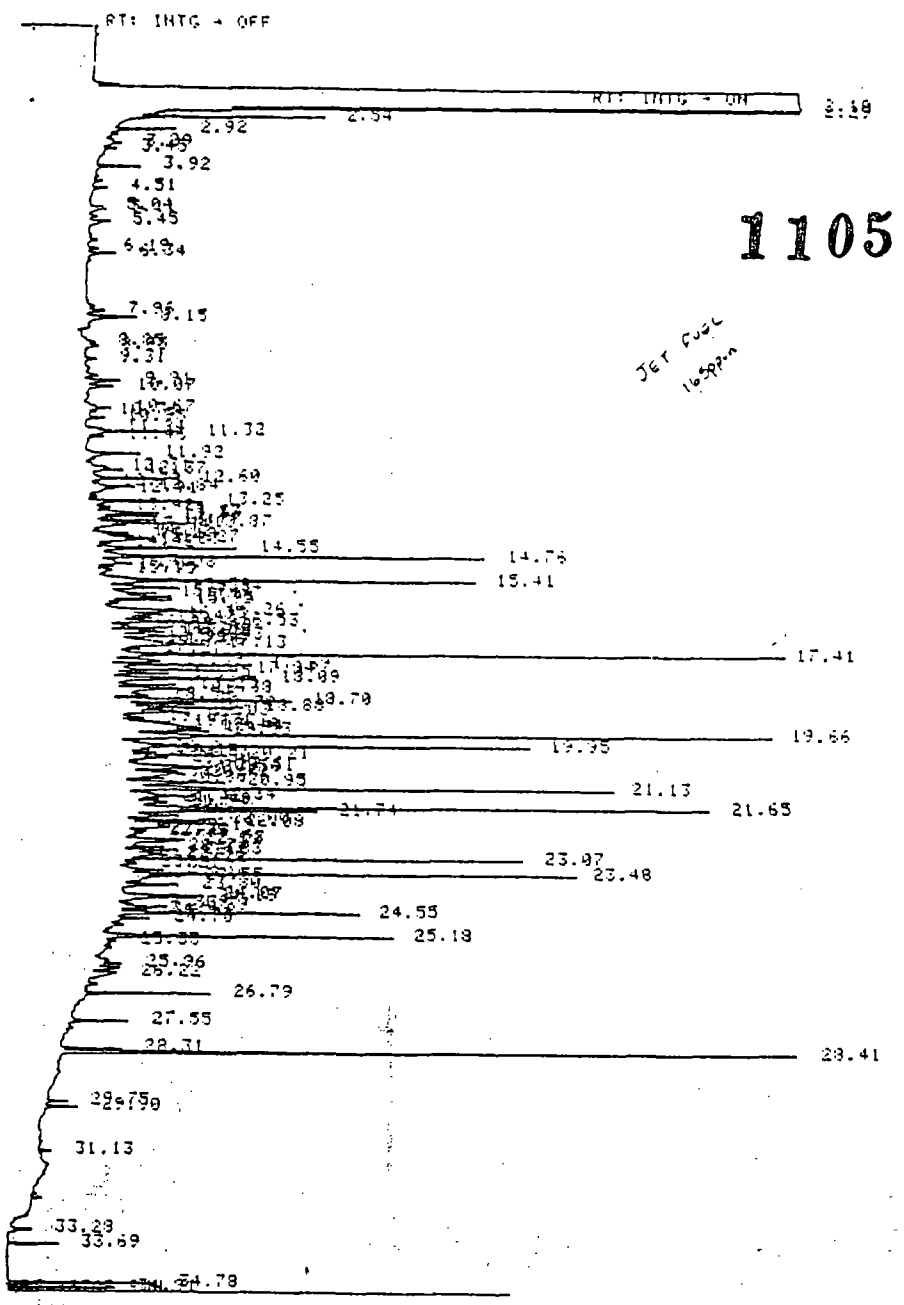
RT	AREA	TYPE	CAL	AMOUNT	NAME
9.51	29.01	BV	1	358.195	GASOLINE 1
9.89	116.69	PV	2	358.195	GASOLINE 2
10.93	43.71	BP	3	358.195	GASOLINE 3
13.54	53.37	BV	4	358.195	GASOLINE 4
14.54	59.86	BV	5	358.195	GASOLINE 5
17.09	14.04	BV	6	358.195	GASOLINE 6
25.18	20.10	VV	7	419.542	DIESEL 1
26.79	16.64	PP	8	419.542	DIESEL 2
28.31	15.51	BV	9	419.542	DIESEL 3
28.41	50.07	VV	10	ISTD 1	PRISTANE
29.75	13.26	BV	11	419.542	DIESEL 4
31.13	12.15	VP	12	419.542	DIESEL 5
32.44	10.50	BB	13	419.542	DIESEL 6
33.69	8.09	BV	14	419.542	DIESEL 7

MULTIPLIER = 1
ISTD 1 AMT = 20.18

OVEN TEMP NOT READY

RT: INTG → OFF

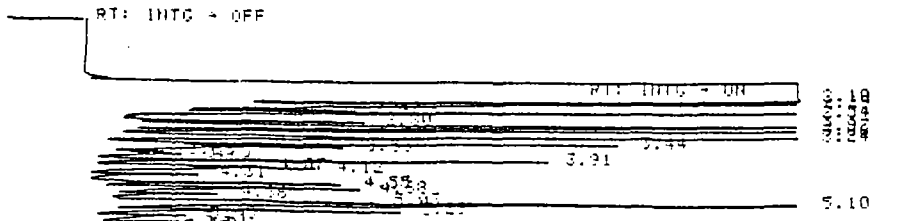


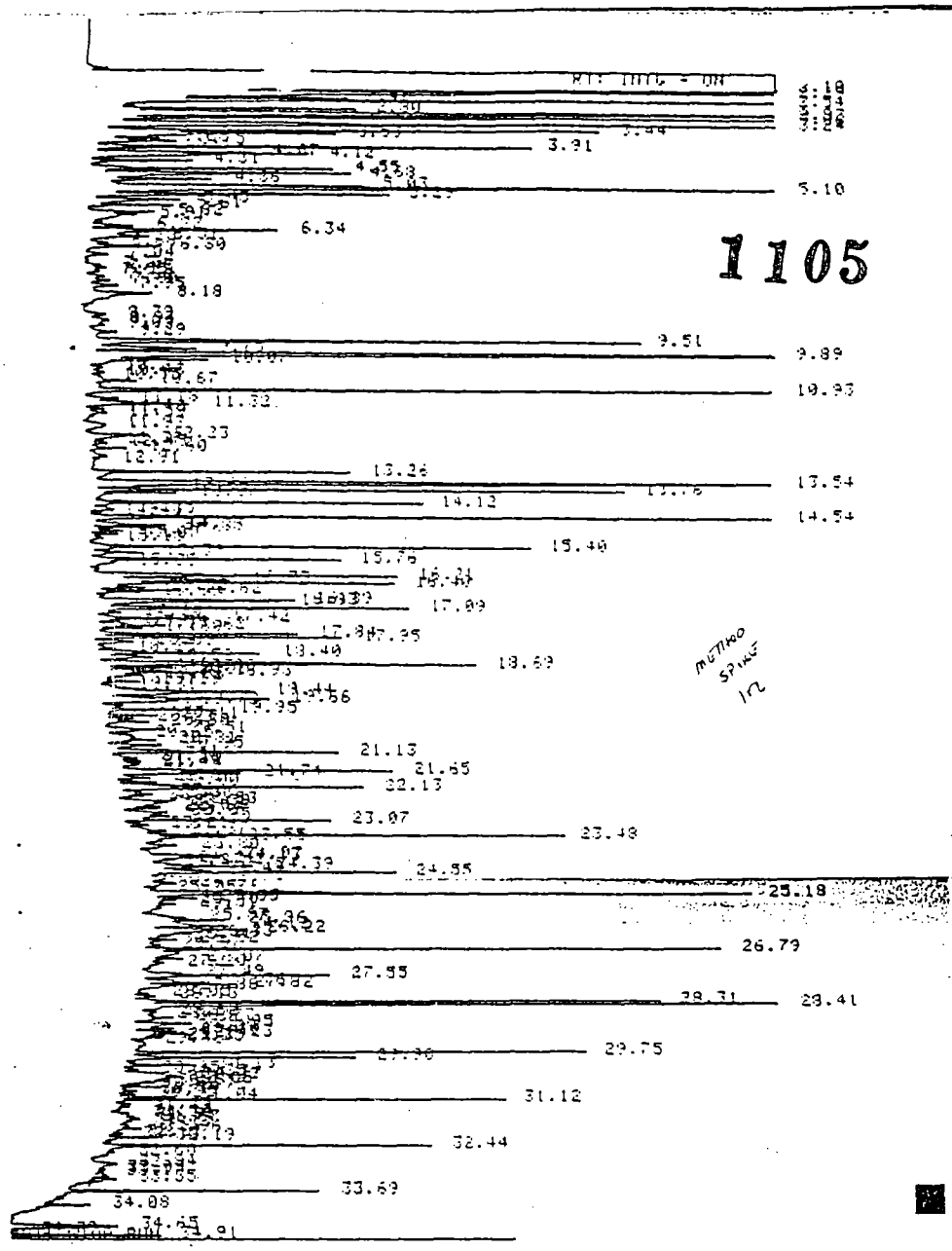


[hp] 5880A - SAMPLER INJECTION @ 22:05 APR 15, 1988
SAMPLE # : ID CODE :
5 165 PPM JF
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
9.31	0.38	BB	1	5.320	GASOLINE 1
9.91	1.40	BB	2	4.498	GASOLINE 2
10.95	0.56	BB	3	4.866	GASOLINE 3
13.57	2.48	PV	4	16.660	GASOLINE 4
14.55	3.56	BB	5	22.517	GASOLINE 5
17.06	1.22	VV	6	33.385	GASOLINE 6
25.18	6.59	BP	7	146.526	DIESEL 1
26.79	2.48	BB	8	64.449	DIESEL 2
28.31	1.20	BV	9	29.757	DIESEL 3
28.41	39.61	VB	10	ISTD 1	PRISTANE
29.75	0.48	BB	11	15.615	DIESEL 4
31.13	0.30	BB	12	10.380	DIESEL 5
33.69	1.27	BB	14	53.884	DIESEL 7

MULTIPLIER = 1
ISTD 1 AMT = 20.19





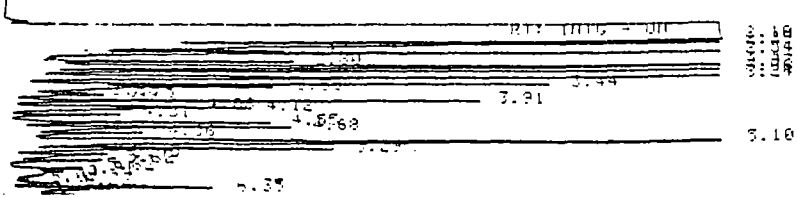
1105

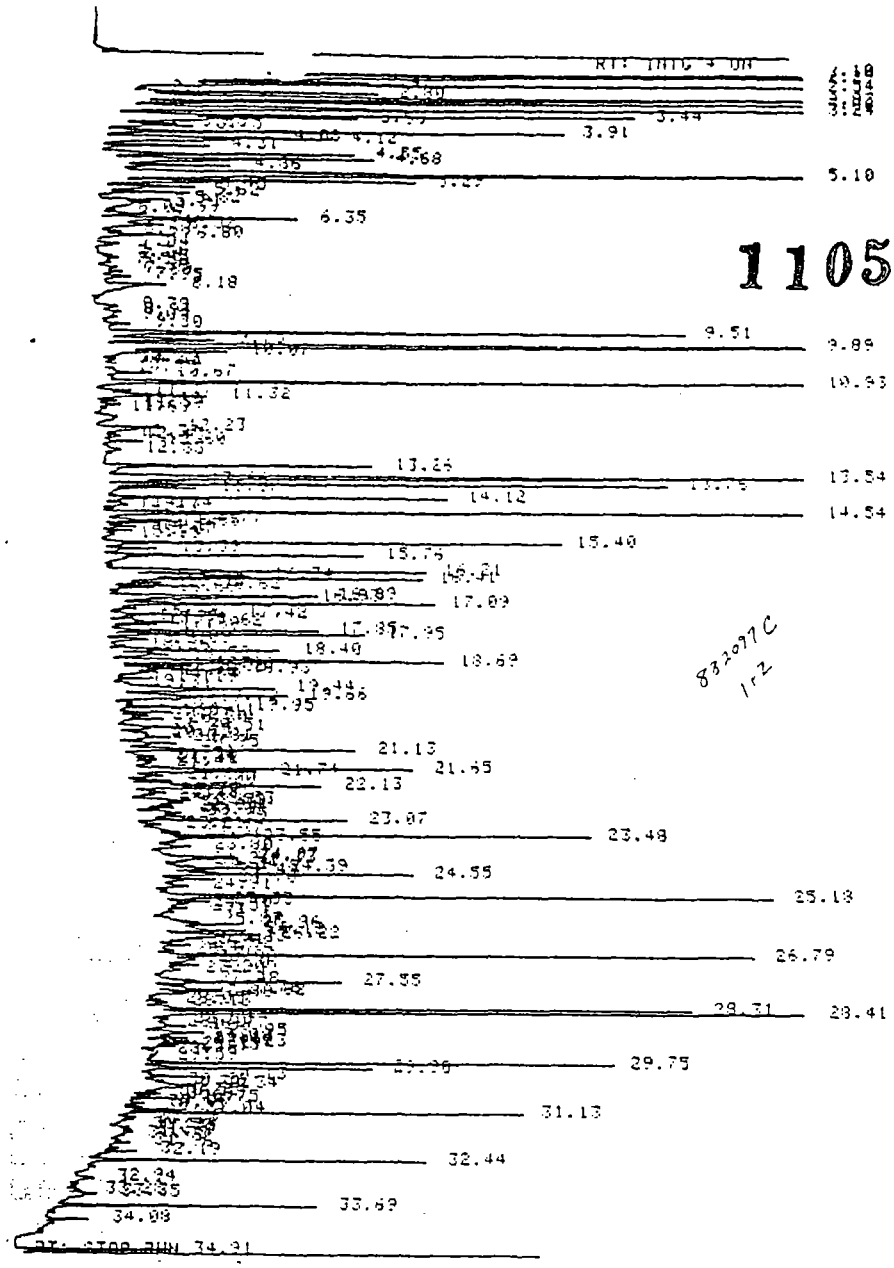
[HP] 5880A SAMPLER INJECTION @ 22:51 APR 15, 1988
SAMPLE # : ID CODE :
6 M SPIKE 1+2
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
9.51	19.26	BV	1	255.024	GASOLINE 1
9.89	77.55	PV	2	254.700	GASOLINE 2
10.93	29.86	BB	3	253.597	GASOLINE 3
13.54	35.67	BV	4	256.861	GASOLINE 4
14.54	40.12	BV	5	257.990	GASOLINE 5
17.09	9.48	BV	6	261.983	GASOLINE 6
25.18	16.49	VV	7	379.323	DIESEL 1
26.79	11.72	PV	8	314.345	DIESEL 2
28.31	10.40	BV	9	299.301	DIESEL 3
28.41	44.87	VB	10	ISTD 1	PRISTANE
29.75	8.76	BP	11	296.298	DIESEL 4
31.12	7.89	VB	12	290.579	DIESEL 5
32.44	7.11	BB	13	303.987	DIESEL 6
33.69	5.21	BB	14	287.273	DIESEL 7

MULTIPLIER = 1
ISTD 1 AMT = 20.18

RT: INTG - OFF





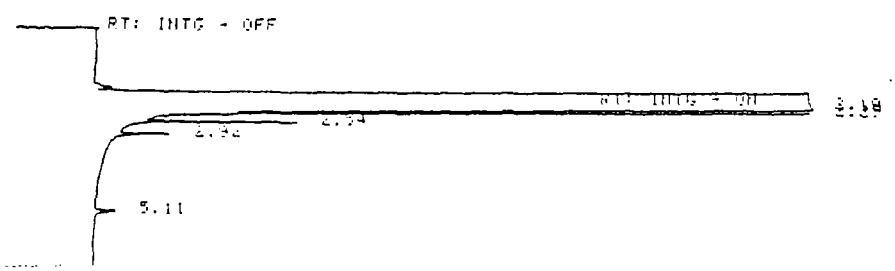
1105

832097C
1+2

[HP] 5880A SAMPLER INJECTION @ 23:37 APR 15, 1988
SAMPLE # : ID CODE :
7 2097C 1+2
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
9.51	19.58	BV	1	259.948	GASOLINE 1
9.89	79.38	PV	2	261.745	GASOLINE 2
10.93	29.65	BB	3	261.572	GASOLINE 3
13.54	36.50	BV	4	263.810	GASOLINE 4
14.54	40.80	BB	5	262.996	GASOLINE 5
17.09	9.50	BP	6	262.627	GASOLINE 6
25.18	15.68	PV	7	357.819	DIESEL 1
26.79	11.73	PV	8	314.486	DIESEL 2
28.31	10.54	BV	9	303.157	DIESEL 3
28.41	44.87	VB	10	ISTD 1	PRISTANE
29.75	8.86	BP	11	300.320	DIESEL 4
31.13	7.94	VB	12	292.767	DIESEL 5
32.44	7.10	BB	13	302.303	DIESEL 6
33.69	5.20	BB	14	286.900	DIESEL 7

MULTIPLIER = 1
ISTD 1 AMT = 20.18



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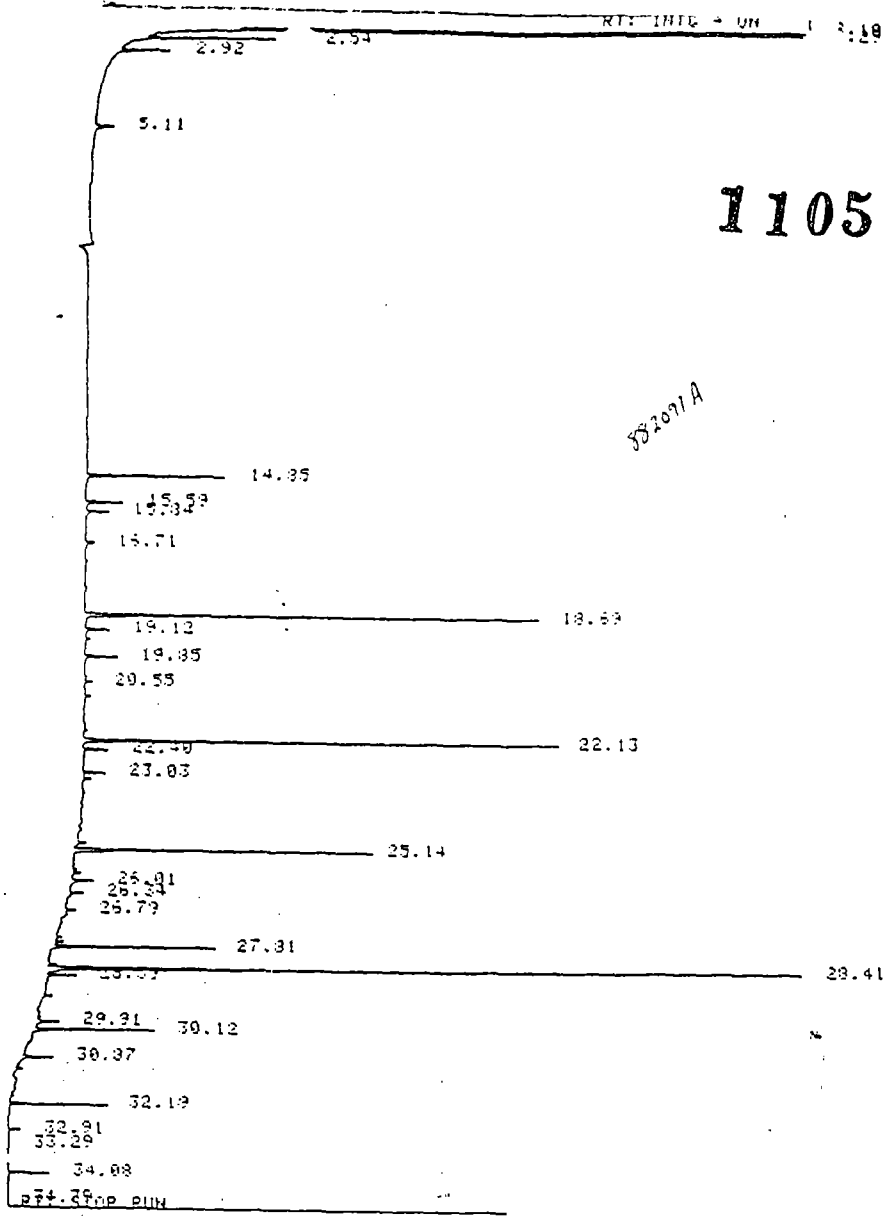


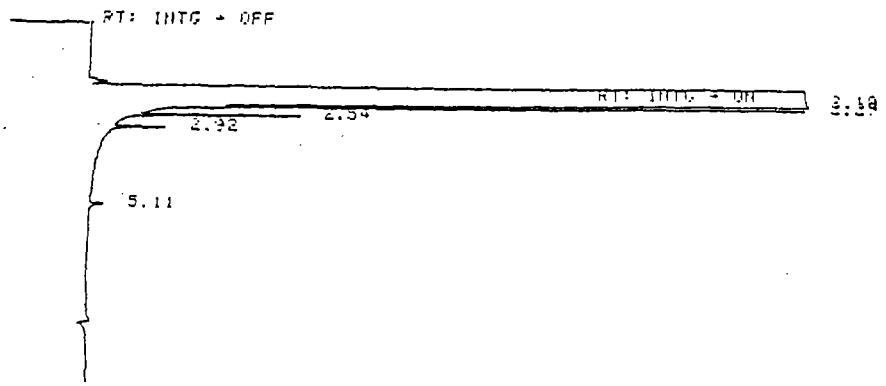
1105

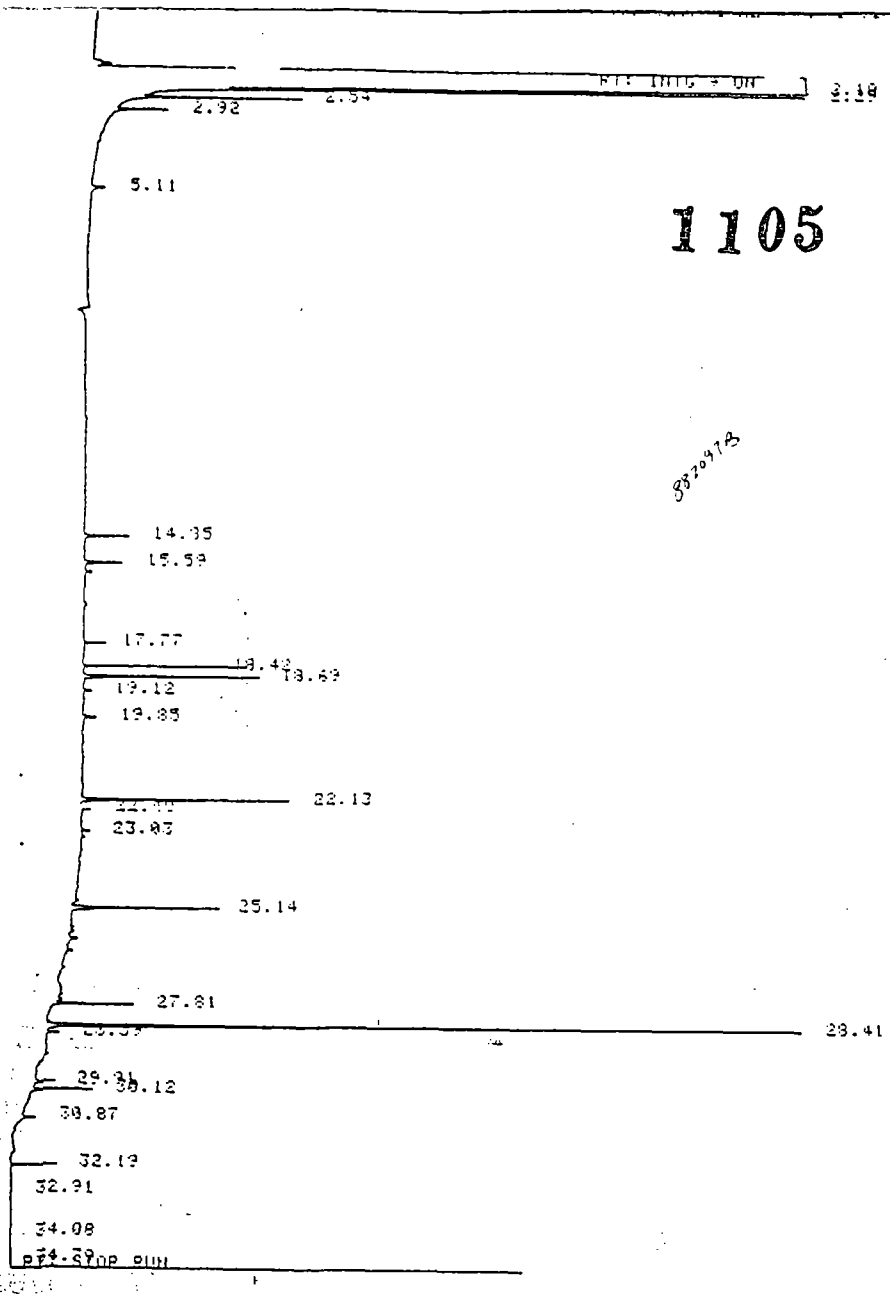
5820 91 A

[hp] 5880A SAMPLER INJECTION @ 00:23 APR 16, 1988
SAMPLE # : ID CODE :
8 2097A
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
14.85	3.09	BB	5	20.062	GASOLINE 5 } x 76
16.71	0.18	BB	6	5.132	GASOLINE 6 } x 76
25.14	6.69	BB	7	152.642	DIESEL 1
26.79	0.20	BB	8	5.262	DIESEL 2
28.41	38.66	PB	10	ISTD 1	PRISTANE
29.91	0.41	BB	11	13.545	DIESEL 4 } x 76
30.87	0.57	BB	12	20.505	DIESEL 5 } x 76
32.19	1.93	BB	13	79.133	DIESEL 6 } x 76
34.08	1.85	BB	14	80.597	DIESEL 7 } x 76

MULTIPLIER = 1
ISTD 1 AMT = 20.18





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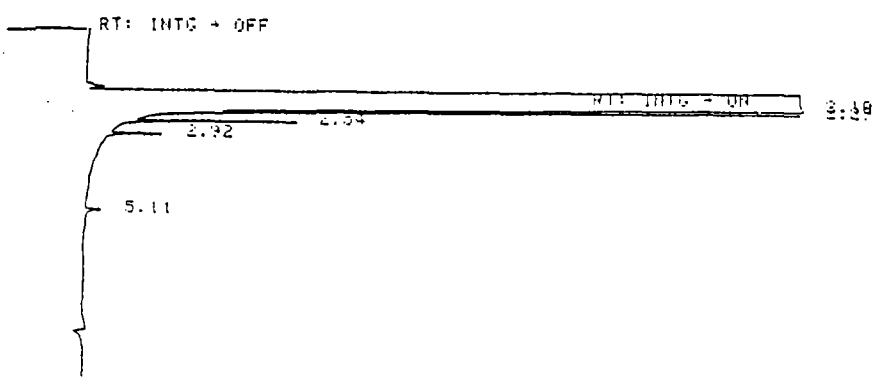
8870478

[hp] 5880A SAMPLER INJECTION @ 01:10 APR 16, 1988
SAMPLE # : ID CODE :
9 20978
GAS/DIESEL INTEPNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
14.85	1.05	BB	5	6.877	GASOLINE 5 } 6%
17.77	0.31	BB	6	8.712	GASOLINE 6 }
25.14	3.42	BB	7	75.784	DIESEL 1
28.41	38.25	BB	10	ISTD 1	PRISTANE
29.91	0.39	BB	11	13.211	DIESEL 4 }
30.87	0.31	BB	12	11.201	DIESEL 5 } 57%
32.19	1.02	BB	13	42.418	DIESEL 6 }
34.08	0.96	BB	14	42.211	DIESEL 7 }

MULTIPLIER = 1
ISTD 1 AMT = 20.18



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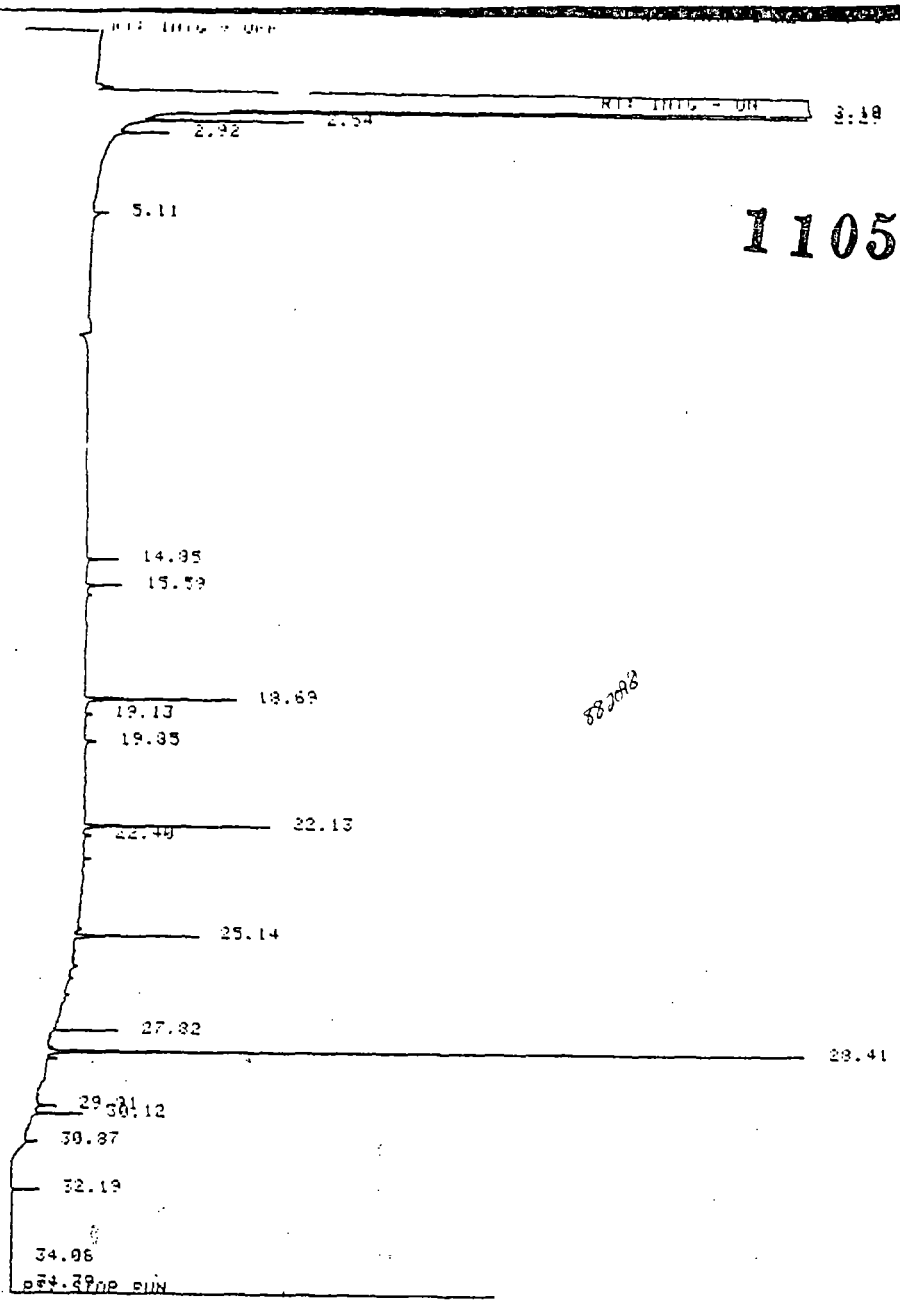
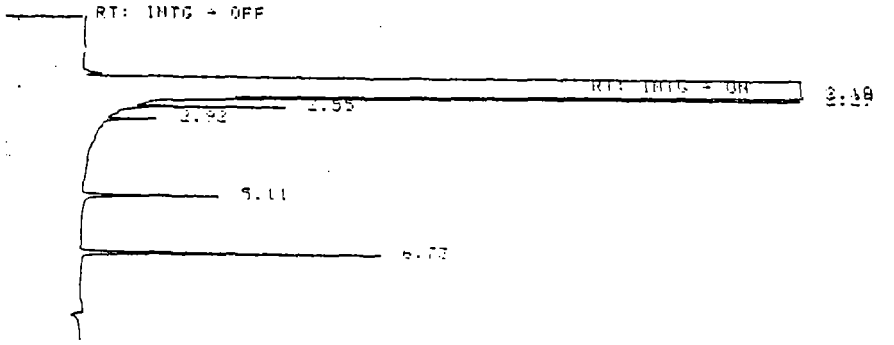
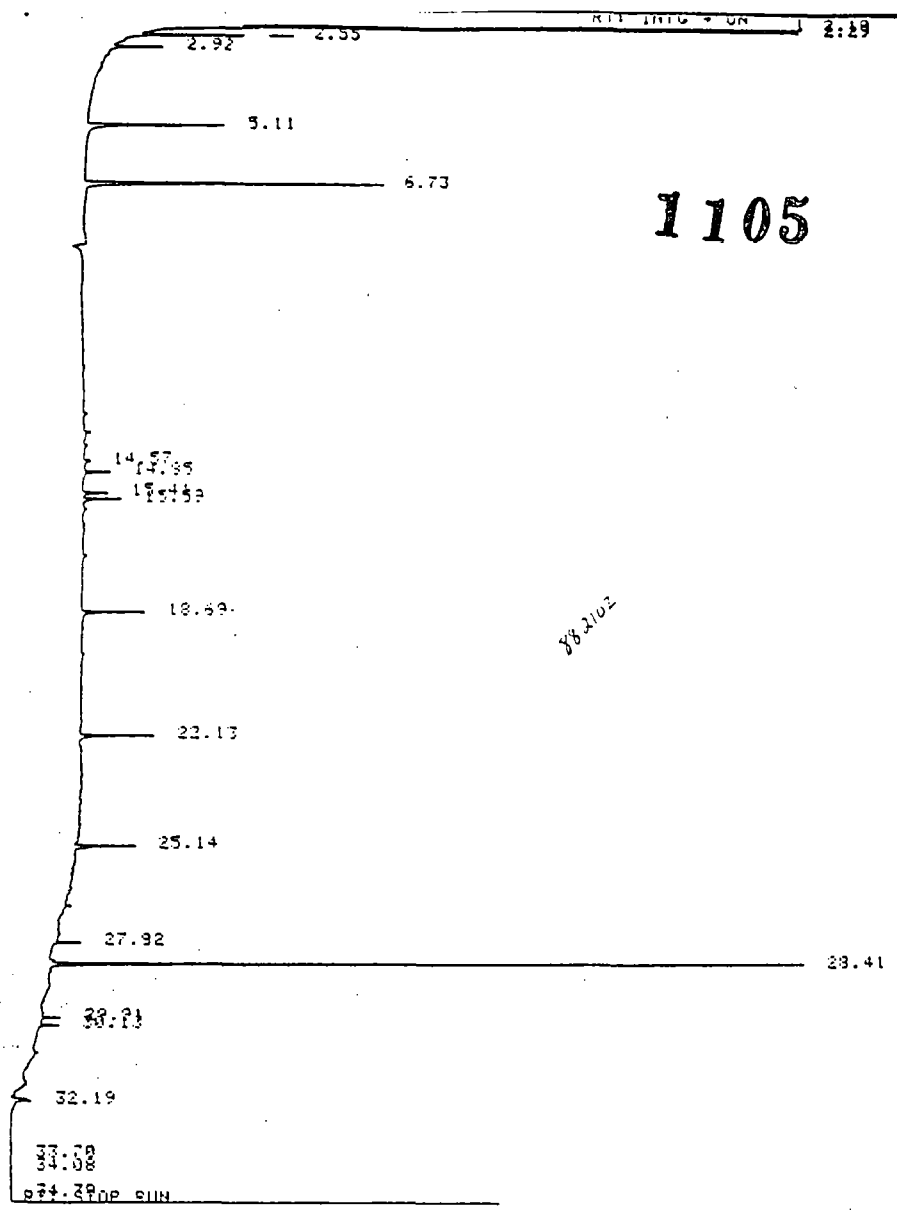


HP 5880A SAMPLER INJECTION @ 01:56 APR 16, 1988
SAMPLE # : ID CODE :
10 2098
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
14.85	0.77	BB	5	5.034	GASOLINE 5
18.69	3.40	BB	6	38.310	GASOLINE 6
25.14	2.89	BB	7	63.824	DIESEL 1
29.41	38.44	BB	10	ISTD 1	PRISTANE
29.91	0.41	BB	11	13.624	DIESEL 4
30.87	0.27	BB	12	9.766	DIESEL 5
32.19	0.81	BB	13	33.237	DIESEL 6
34.08	0.83	BB	14	36.142	DIESEL 7

MULTIPLIER = 1
ISTD 1 AMT = 20.18





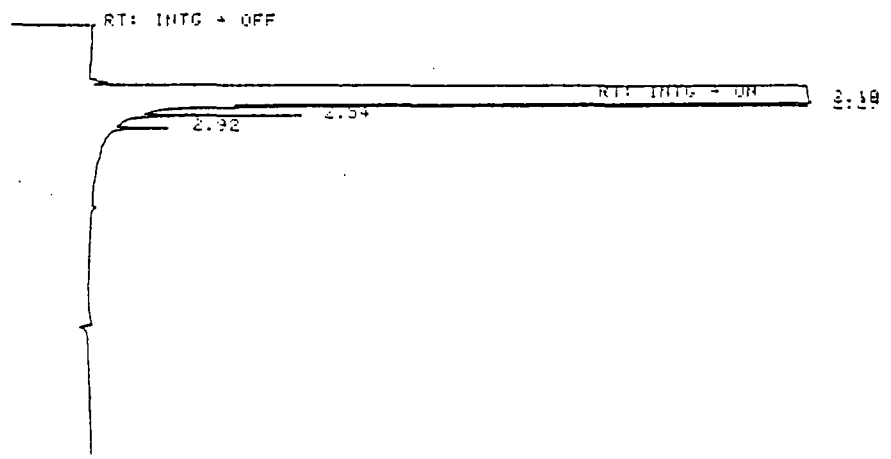
1105

882102

hp 5880A SAMPLER INJECTION @ 02:42 APR 16, 1988
SAMPLE # : ID CODE :
11 2102
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
14.57	0.15	BB	5	1.004	GASOLINE 5
18.69	1.35	BB	6	38.665	GASOLINE 6
25.14	1.59	BB	7	35.839	DIESEL 1
28.41	37.74	BB	10	ISTD 1	PRISTANE
29.91	0.38	BB	11	12.785	DIESEL 4
32.19	0.16	BB	13	6.606	DIESEL 6
33.70	0.49	BB	14	21.611	DIESEL 7

MULTIPLIER = 1
ISTD 1 AMT = 20.18



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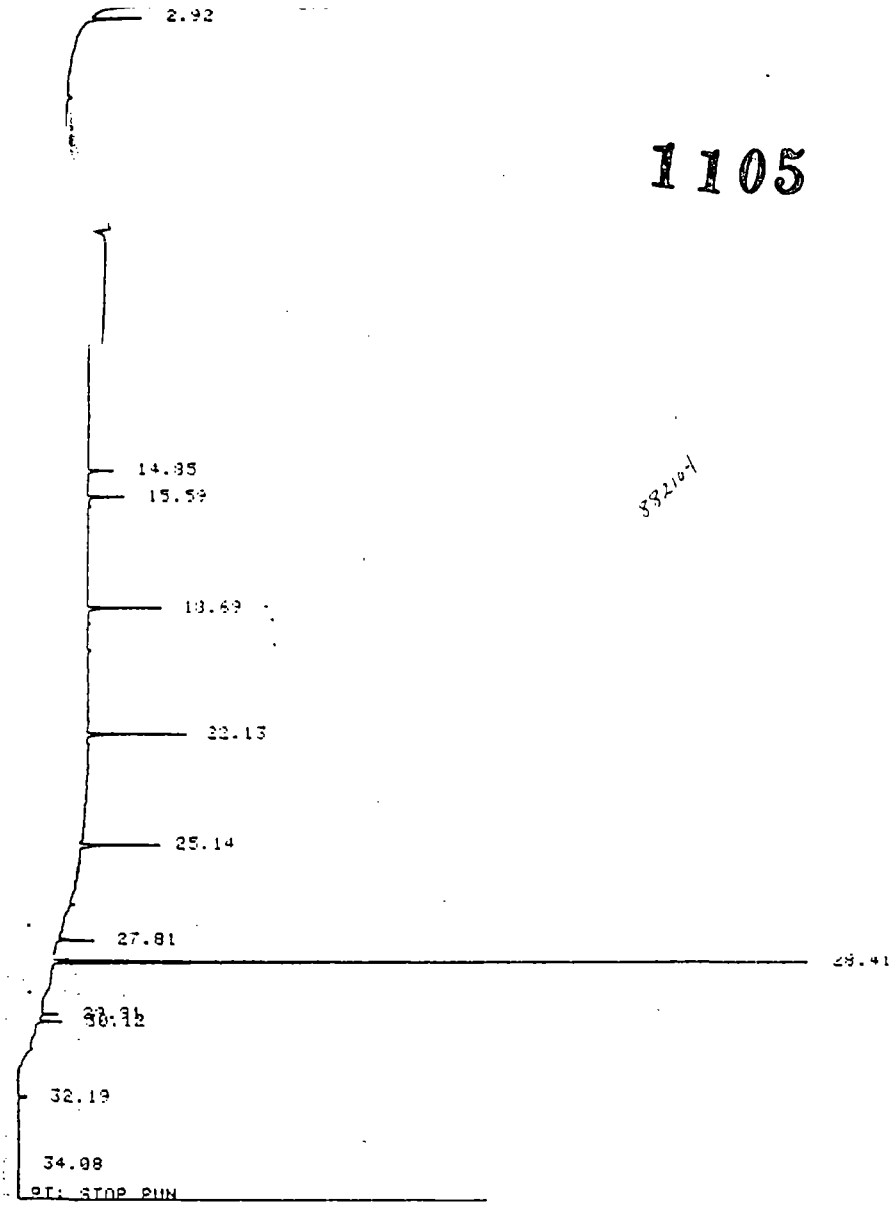
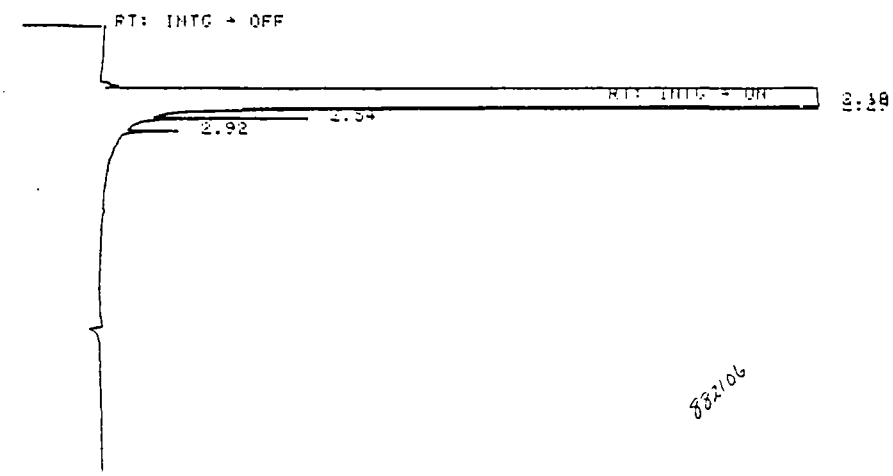


882104

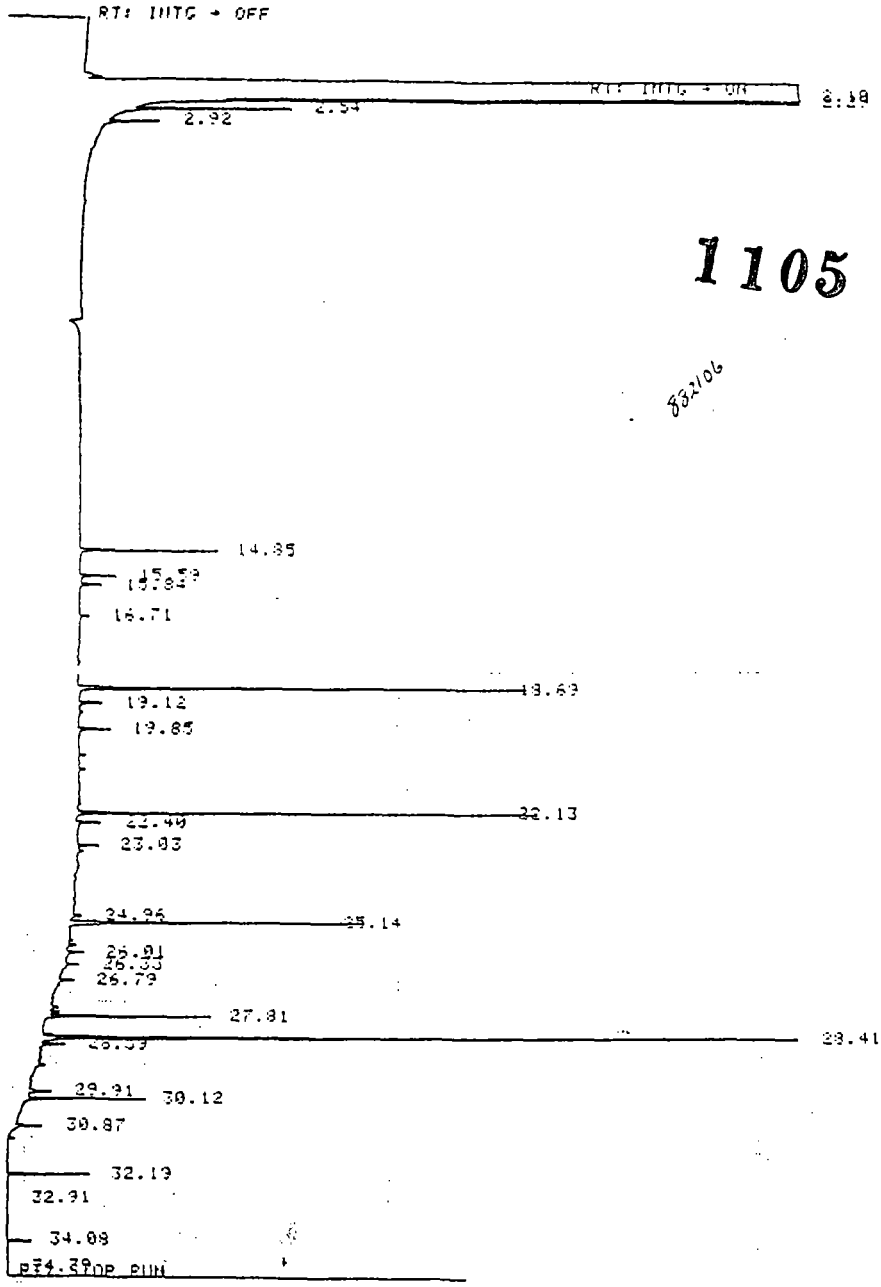
[hp] 5880A SAMPLER INJECTION @ 03:28 APR 16, 1988
SAMPLE # : ID CODE :
12 2104
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
14.85	0.63	BB	5	4.138	GASOLINE 5
18.69	1.65	BB	6	46.377	GASOLINE 6
25.14	1.84	BB	7	40.676	DIESEL 1
29.41	38.46	BB	10	ISTD 1	PRISTANE
29.91	0.40	BB	11	13.377	DIESEL 4
32.19	0.92	BB	13	37.792	DIESEL 6
34.08	0.45	BB	14	19.495	DIESEL 7

MULTIPLIER = 1
ISTD 1 AMT = 20.18



882106



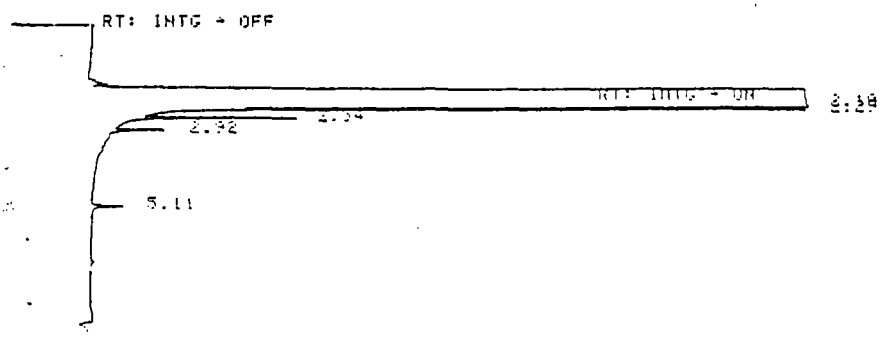
1105

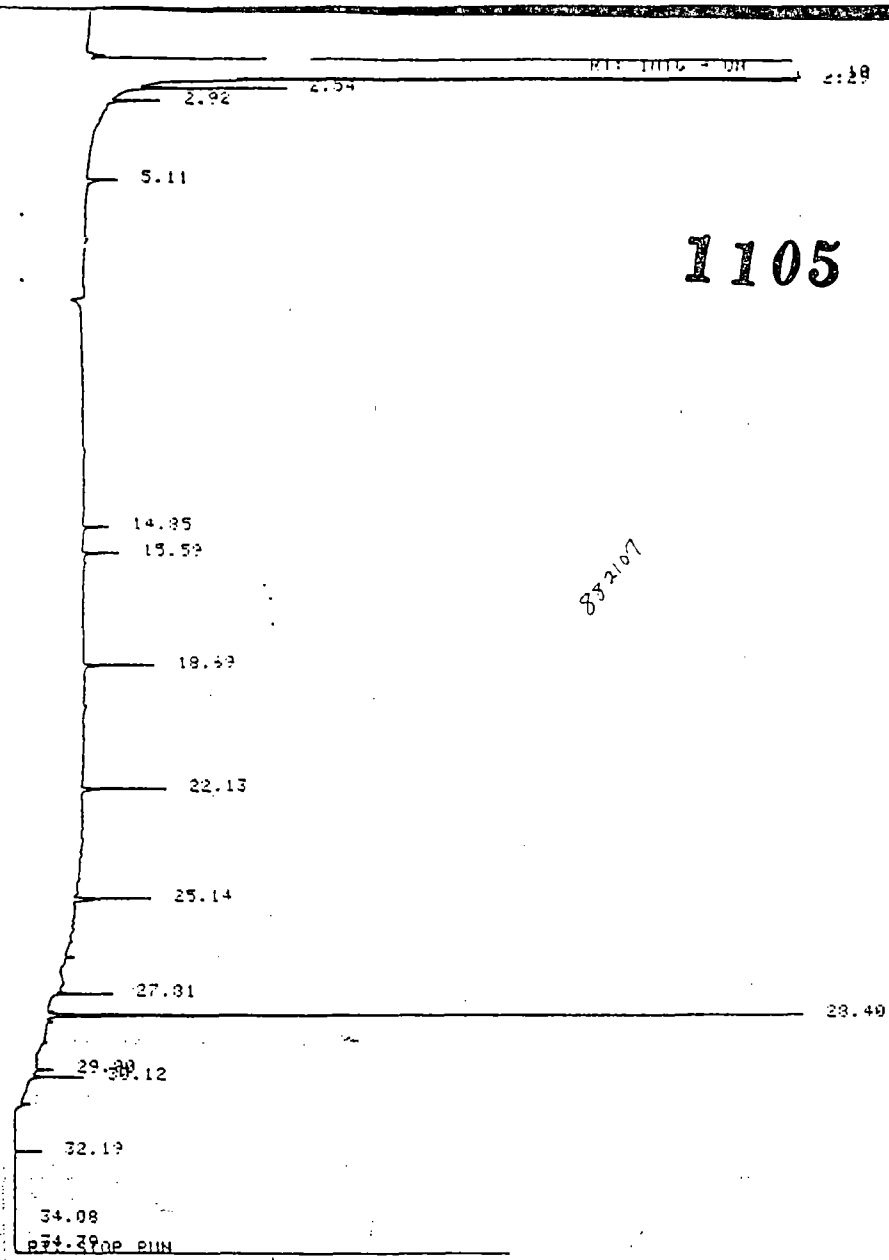
832106

[hp] 5880A SAMPLER INJECTION @ 04:14 APR 16, 1998
SAMPLE # : ID CODE :
13 2106
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
14.85	3.06	BB	5	20.164	GASOLINE 5
16.71	0.21	BB	6	6.071	GASOLINE 6
25.14	6.48	BB	7	150.154	DIESEL 1
26.79	0.41	BB	8	11.167	DIESEL 2
28.41	38.08	BP	10	ISTD 1	PRISTANE
29.91	0.64	BB	11	21.500	DIESEL 4
30.87	0.66	BB	12	24.191	DIESEL 5
32.19	2.11	BB	13	88.509	DIESEL 6
34.08	1.83	BB	14	80.889	DIESEL 7

MULTIPLIER = 1
ISTD 1 AMT = 20.18





1105

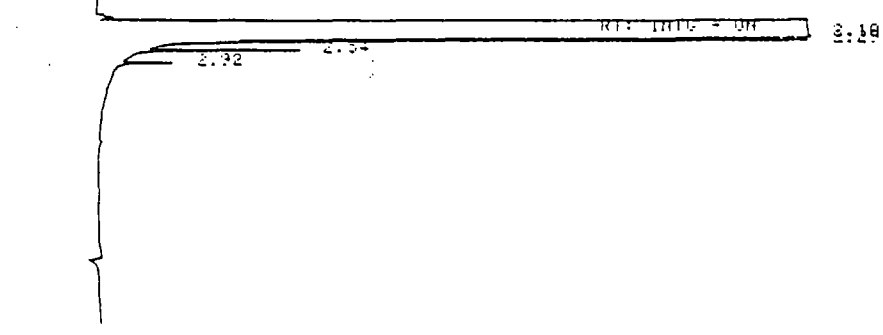
832107

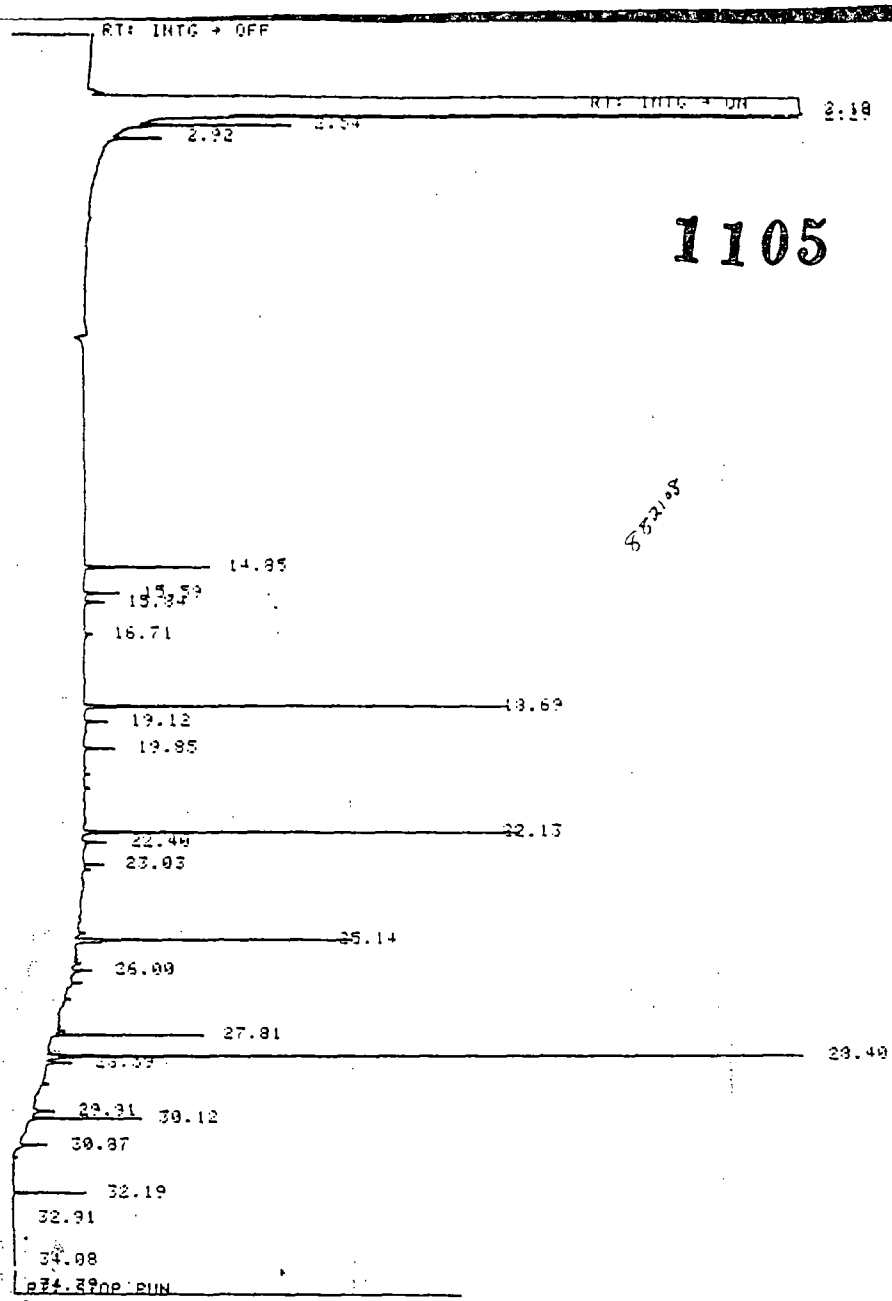
[HP] 5880A SAMPLER INJECTION @ 05:01 APR 16, 1988
SAMPLE # : ID CODE :
14 2107
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
14.85	0.62	BB	5	4.081	GASOLINE 5
18.69	1.55	BB	6	44.279	GASOLINE 6
25.14	2.05	BB	7	45.841	DIESEL 1
28.40	37.91	BB	10	ISTD 1	PRISTANE
29.90	0.36	BB	11	12.304	DIESEL 4
32.19	0.85	BB	13	35.552	DIESEL 6
34.00	0.06	BB	14	38.097	DIESEL 7

MULTIPLIER = 1
ISTD 1 AMT = 20.18

RT: INTG - OFF

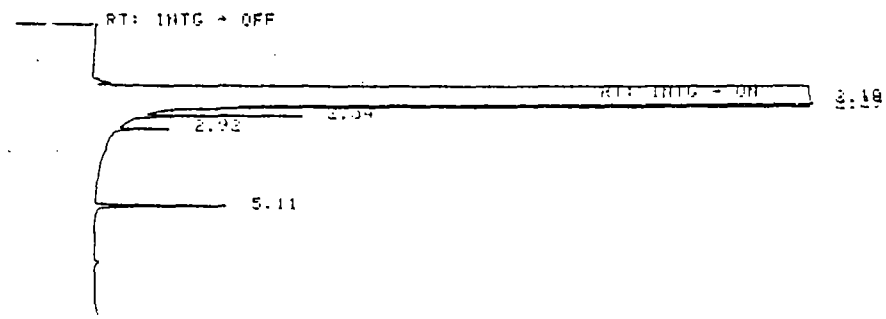


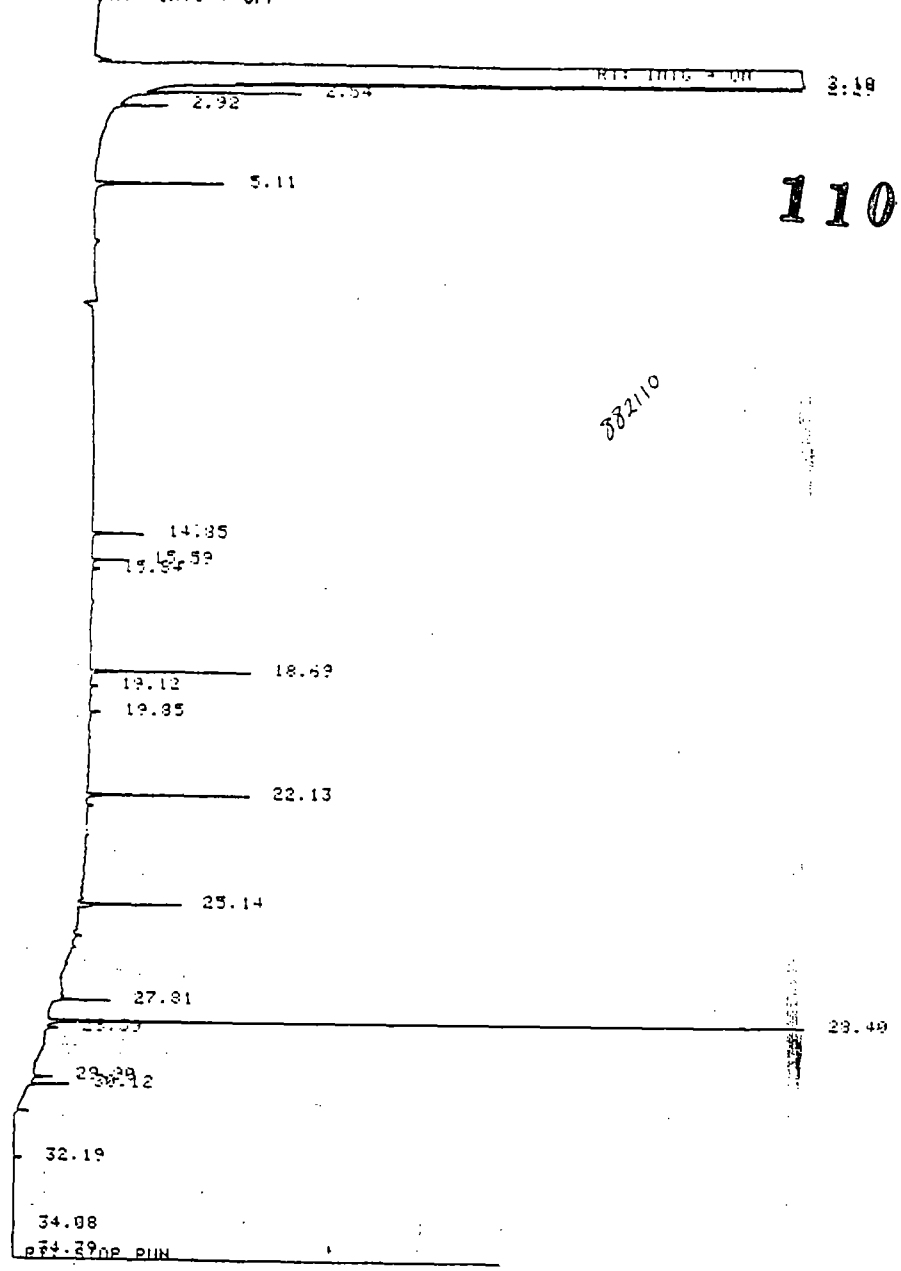


[hp] 5880A SAMPLER INJECTION @ 05:47 APR 16, 1988
SAMPLE # : ID CODE :
15 2108
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
14.85	2.83	BB	5	18.498	GASOLINE 5
16.71	0.25	BB	6	7.070	GASOLINE 6
25.14	6.12	BB	7	140.009	DIESEL 1
26.00	0.48	BB	8	12.927	DIESEL 2
28.40	39.42	BP	10	ISTD 1	PRISTANE
29.91	0.39	BB	11	13.154	DIESEL 4
30.87	0.73	BB	12	26.419	DIESEL 5
32.19	1.99	BB	13	81.973	DIESEL 6
34.08	1.85	BB	14	80.789	DIESEL 7

MULTIPLIER = 1
ISTD 1 AMT = 20.18

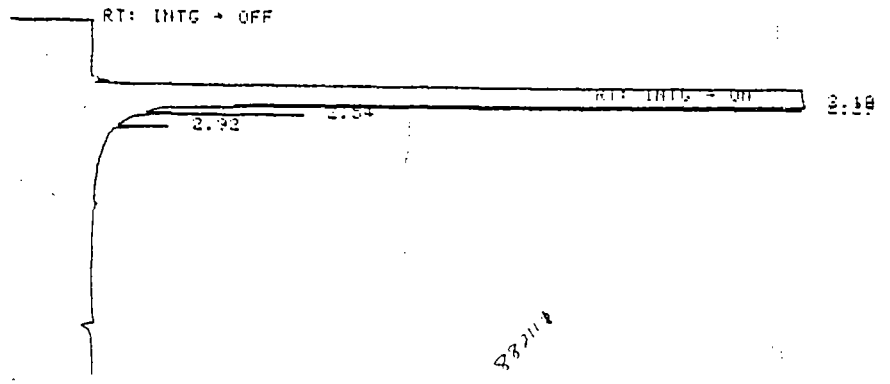


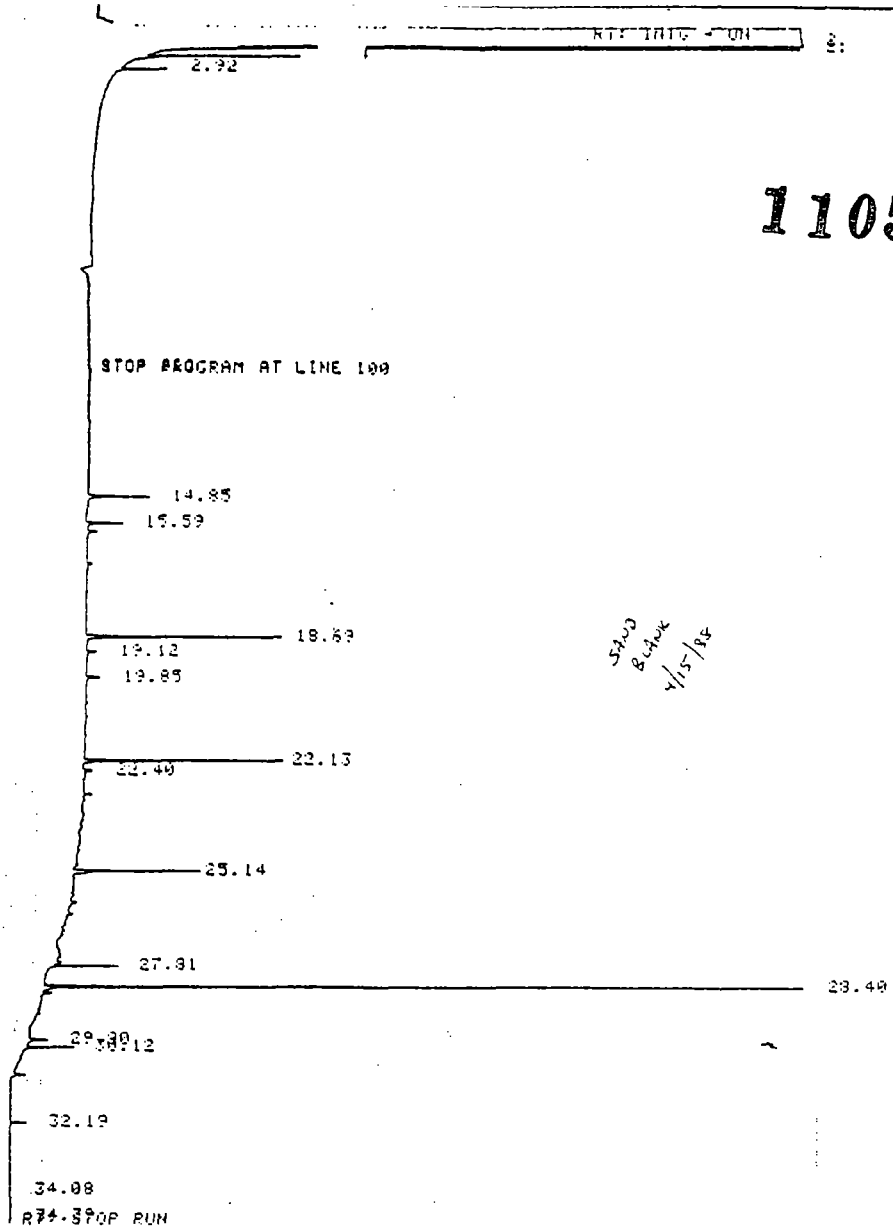


Chp 5880A SAMPLER INJECTION @ 06:33 APR 16, 1988
SAMPLE # : ID CODE :
16 2110
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
14.85	1.17	BB	5	7.625	GASOLINE 5 } GRP
15.84	0.15	BB	6	4.341	GASOLINE 6 }
25.14	2.48	BB	7	54.864	DIESEL 1
29.40	39.39	BB	10	ISTD 1	PRISTANE
29.90	0.33	BB	11	11.169	DIESEL 4 }
32.19	0.63	BB	13	26.198	DIESEL 6 } GRP
34.08	0.61	BB	14	26.848	DIESEL 7 }

MULTIPLIER = 1
ISTD 1 AMT = 20.18





1105

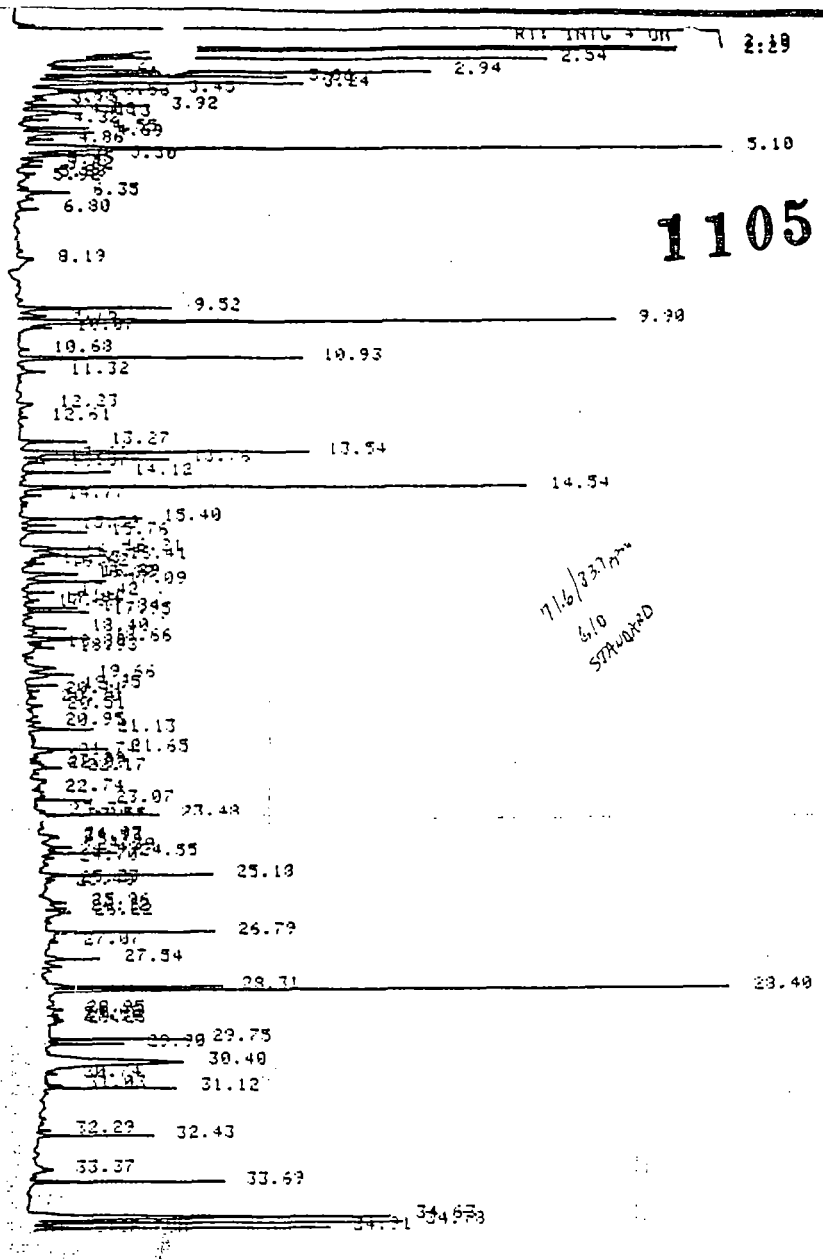
STOP BLANK 4/15/88

HP 5880A SAMPLER INJECTION @ 08:06 APR 16, 1988
SAMPLE # : ID CODE :
18 BLK 4-15
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
14.85	1.49	BB	5	9.713	GASOLINE 5 } ECM
18.69	4.37	BB	6	129.593	GASOLINE 6 }
25.14	2.93	BB	7	64.750	DIESEL 1
28.40	38.37	BB	10	ISTD 1	PRISTANE
29.90	0.32	BB	11	10.736	DIESEL 4 }
32.19	0.87	BB	13	36.043	DIESEL 6 } ECM
34.08	0.82	BB	14	36.043	DIESEL 7 }

MULTIPLIER = 1
ISTD 1 AMT = 20.18

PAGE



Hp 5880A SAMPLER INJECTION @ 11:17 APR 16, 1988
SAMPLE # : ID CODE :
2 1UL/L G/D
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
9.52	5.15	BB	1	69.317	GASOLINE 1
9.90	23.01	PV	2	70.946	GASOLINE 2
10.93	8.58	BB	3	71.576	GASOLINE 3
13.54	10.29	BV	4	66.359	GASOLINE 4
14.54	11.77	BB	5	71.545	GASOLINE 5
17.09	2.75	BB	6	72.357	GASOLINE 6
25.18	3.90	BB	7	81.898	DIESEL 1
26.79	3.36	BB	8	83.866	DIESEL 2
28.31	3.82	BV	9	94.039	DIESEL 3
28.40	41.24	VB	10	ISTD 1	PRISTANE
29.75	2.72	BB	11	85.134	DIESEL 4
31.12	2.73	VB	12	93.279	DIESEL 5
32.43	2.59	BB	13	102.461	DIESEL 6
33.69	4.08	BB	14	237.586	DIESEL 7

MULTIPLIER = 1
ISTD 1 AMT = 20.18

Hp 5880A SAMPLER INJECTION @ 11:17 APR 16, 1988
SAMPLE # : ID CODE :
2 1UL/L G/D
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
9.52	5.15	BB	1	71.639	GASOLINE 1
9.90	23.01	PV	2	71.639	GASOLINE 2
10.93	8.58	BB	3	71.639	GASOLINE 3
13.54	10.29	BV	4	71.639	GASOLINE 4
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	GASOLINE 5

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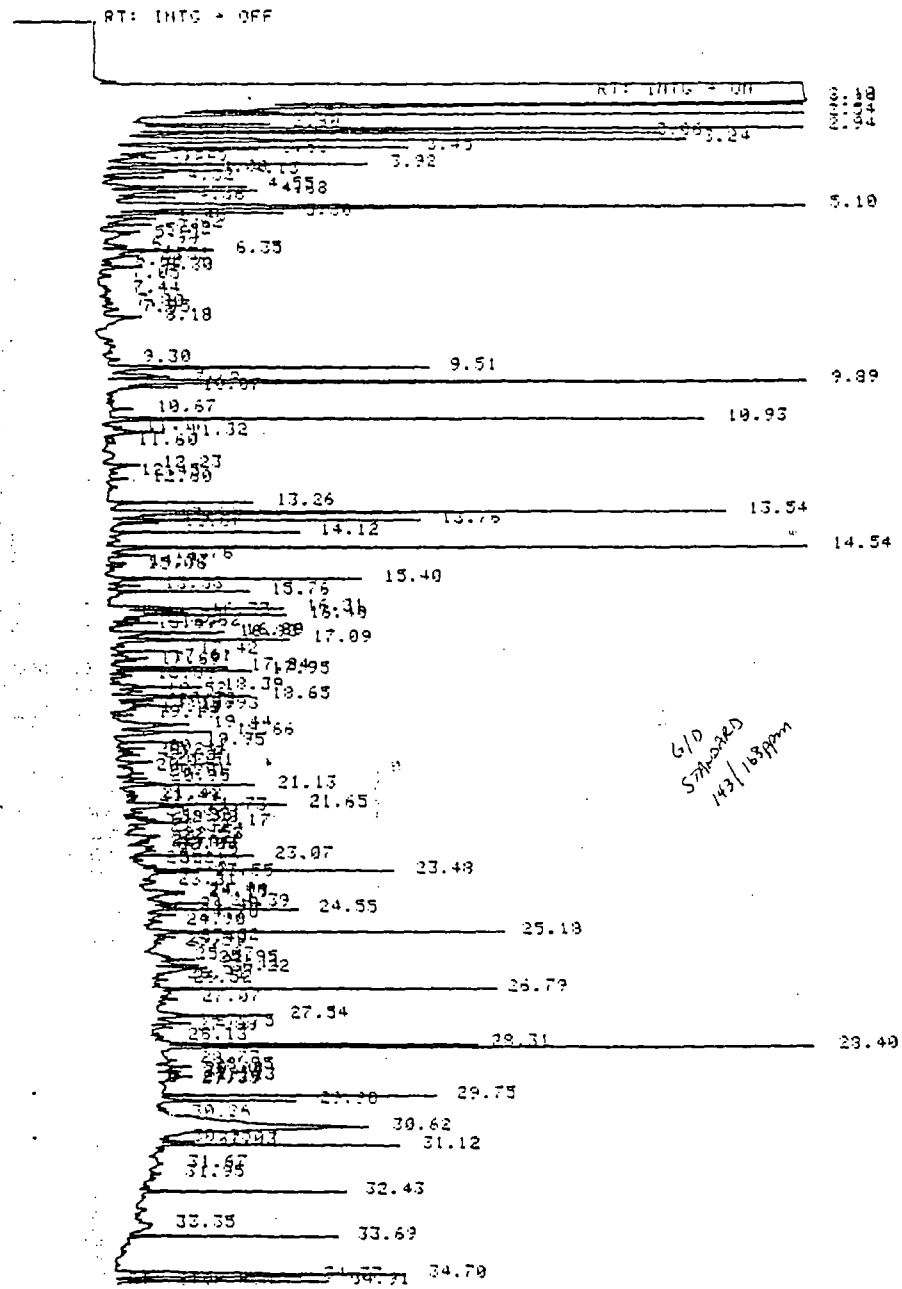
ISTD COMPENSATED ANALYSIS

RT	[illegible]	TYPE	CAL	AMOUNT	NAME
9.52	5.15	BB	1	71.639	GASOLINE 1
9.90	23.01	PV	2	71.639	GASOLINE 2
10.93	8.58	BB	3	71.639	GASOLINE 3
13.54	10.29	BV	4	71.639	GASOLINE 4
14.54	11.77	BB	5	71.639	GASOLINE 5
17.09	2.75	BB	6	71.639	GASOLINE 6
25.18	3.98	BB	7	83.998	DIESEL 1
26.79	3.36	BB	8	83.998	DIESEL 2
29.31	7.80	PV	9	83.998	DIESEL 3
28.40	41.24	VB	10	ISTD 1	PRISTANE
29.75	2.72	BB	11	83.998	DIESEL 4
31.12	2.73	VB	12	83.998	DIESEL 5
32.43	2.59	BB	13	83.998	DIESEL 6
33.69	4.08	BB	14	83.998	DIESEL 7

1105

MULTIPLIER = 1
ISTD 1 AMT = 20.18

OVEN TEMP NOT READY



[hp] 5880A SAMPLER INJECTION @ 12:04 APR 16, 1988
SAMPLE # : ID CODE :
3 2UL/L G/D
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	APEA	TYPE	CAL	AMOUNT	NAME
9.51	11.46	BV	1	142.641	GASOLINE 1
9.89	46.42	PV	2	142.623	GASOLINE 2
10.93	17.29	BB	3	143.021	GASOLINE 3
13.54	21.10	BV	4	142.548	GASOLINE 4
14.54	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

34.79

[HP] 5880A SAMPLER INJECTION @ 12:04 APR 16, 1988
SAMPLE # : ID CODE :
3 2UL/L G/D
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

1105

RT	AREA	TYPE	CAL	AMOUNT	NAME
9.51	11.46	BV	1	142.641	GASOLINE 1
9.89	46.42	PV	2	142.629	GASOLINE 2
10.93	17.29	BB	3	143.021	GASOLINE 3
13.54	21.10	BV	4	142.549	GASOLINE 4
14.54	23.77	BB	5	143.631	GASOLINE 5
17.09	5.47	BB	6	144.225	GASOLINE 6
25.18	8.03	BV	7	164.884	DIESEL 1
26.79	6.99	BV	8	167.433	DIESEL 2
28.31	6.55	BV	9	173.517	DIESEL 3
28.40	43.19	VB	10	ISTD 1	PRISTANE
29.75	5.27	BB	11	167.163	DIESEL 4
31.12	4.95	VB	12	172.145	DIESEL 5
32.43	4.46	BB	13	179.848	DIESEL 6
33.69	4.23	BB	14	186.815	DIESEL 7

MULTIPLIER = 1
ISTD 1 AMT = 20.18

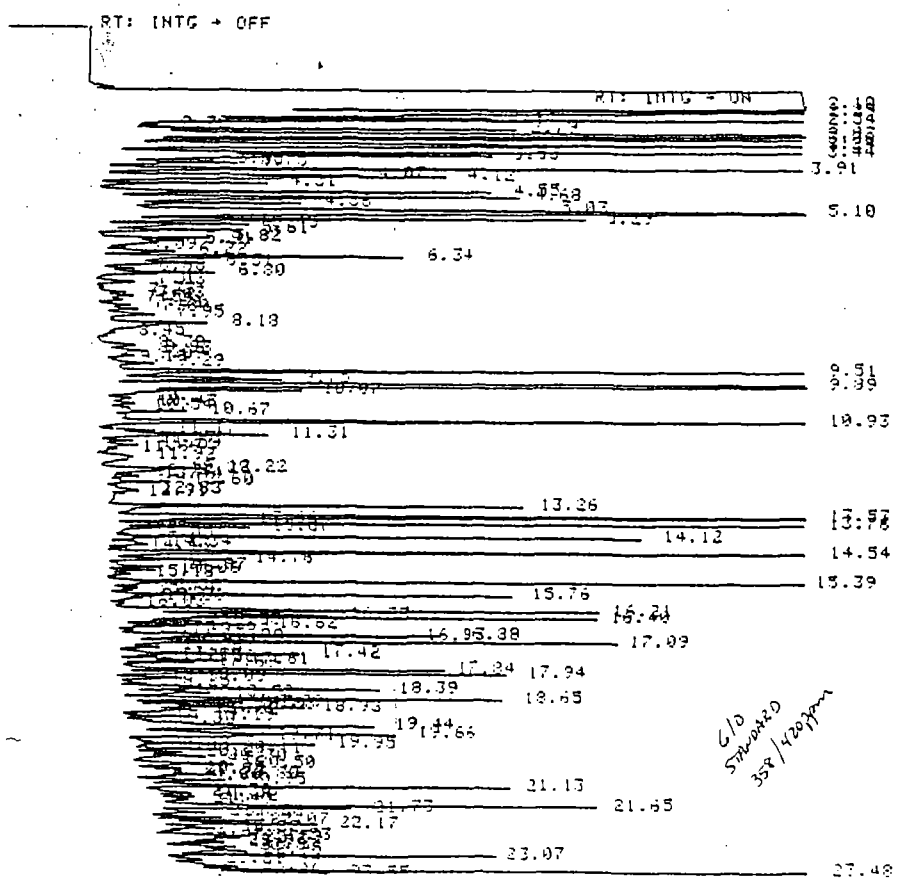
[HP] 5880A SAMPLER INJECTION @ 12:04 APR 16, 1988
SAMPLE # : ID CODE :
3 2UL/L G/D
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
9.51	11.46	BV	1	143.273	GASOLINE 1
9.89	46.42	PV	2	143.273	GASOLINE 2
10.93	17.29	BB	3	143.273	GASOLINE 3
13.54	21.10	BV	4	143.273	GASOLINE 4
14.54	23.77	BB	5	143.273	GASOLINE 5
17.09	5.47	BB	6	143.273	GASOLINE 6
25.18	8.03	BV	7	167.696	DIESEL 1
26.79	6.99	BV	8	167.696	DIESEL 2
28.31	6.55	BV	9	167.696	DIESEL 3
28.40	43.19	VB	10	ISTD 1	PRISTANE
29.75	5.27	BB	11	167.696	DIESEL 4
31.12	4.95	VB	12	167.696	DIESEL 5
32.43	4.46	BB	13	167.696	DIESEL 6
33.69	4.23	BB	14	167.696	DIESEL 7

MULTIPLIER = 1
ISTD 1 AMT = 20.18

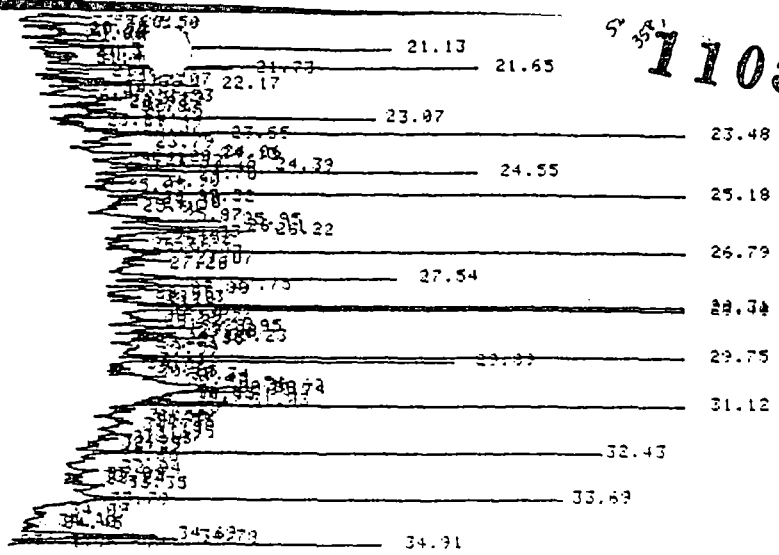
042

OVEN TEMP NOT READY



6/10 STANDARD 358/420ppm

© SUPELCO, INC. Bellefonte PA Cat No. 2-3887 Bndl. Cat No. 2-3888 Box of 10 Bndl.



[HP] 5880A SAMPLER INJECTION @ 12:50 APR 16, 1988
SAMPLE # : ID CODE :
4 5UL/L G/D
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
9.51	29.49	BV	1	354.064	GASOLINE 1
9.89	119.28	PV	2	356.208	GASOLINE 2
10.93	44.74	BP	3	356.817	GASOLINE 3
13.53	54.51	BV	4	355.879	GASOLINE 4
14.54	61.46	PV	5	357.996	GASOLINE 5
17.09	14.45	BV	6	358.715	GASOLINE 6
25.18	20.44	VV	7	414.777	DIESEL 1
26.79	17.73	PV	8	434.983	DIESEL 2
28.31	16.22	PV	9	427.050	DIESEL 3
28.40	51.44	VV	10	ISTD 1	PRISTANE
29.75	13.62	BP	11	419.591	DIESEL 4
31.12	12.21	VP	12	409.052	DIESEL 5
32.43	11.02	PB	13	428.802	DIESEL 6
33.69	10.47	BV	14	528.789	DIESEL 7

MULTIPLIER = 1
ISTD 1 AMT = 20.18

[HP] 5880A SAMPLER INJECTION @ 12:50 APR 16, 1988
SAMPLE # : ID CODE :
4 5UL/L G/D
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

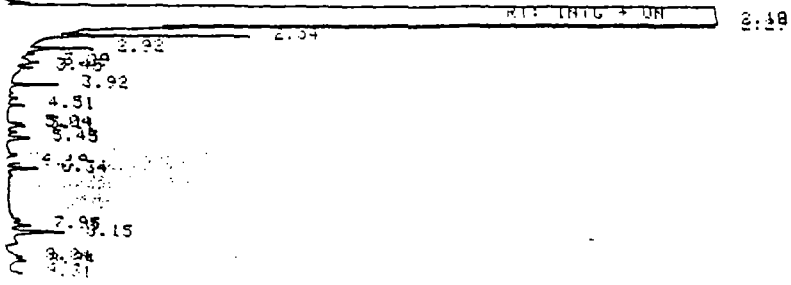
RT	AREA	TYPE	CAL	AMOUNT	NAME
9.51	29.49	BV	1	358.195	GASOLINE 1
9.89	119.28	PV	2	358.195	GASOLINE 2
10.93	44.74	BP	3	358.195	GASOLINE 3
13.53	54.51	BV	4	358.195	GASOLINE 4
14.54	61.46	PV	5	358.195	GASOLINE 5
17.09	14.45	BV	6	358.195	GASOLINE 6
25.18	20.44	VV	7	419.542	DIESEL 1
26.79	17.73	PV	8	419.542	DIESEL 2
28.31	16.22	PV	9	419.542	DIESEL 3
28.40	51.44	VV	10	ISTD 1	PRISTANE
29.75	13.62	BP	11	419.542	DIESEL 4
31.12	12.21	VP	12	419.542	DIESEL 5
32.43	11.02	PB	13	419.542	DIESEL 6
33.69	10.47	BV	14	419.542	DIESEL 7

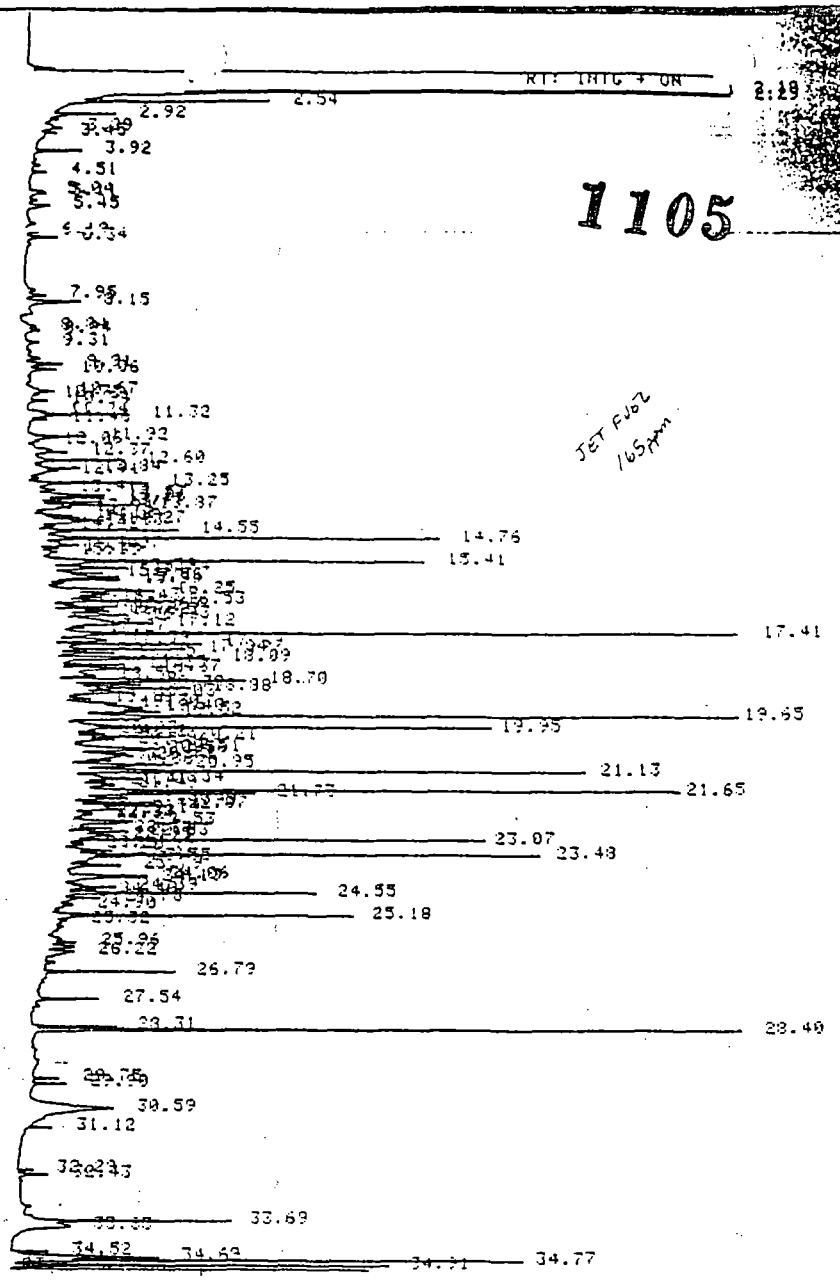
MULTIPLIER = 1
ISTD 1 AMT = 20.18

OVEN TEMP NOT READY

RT: INTG + OFF

RT: INTG + ON

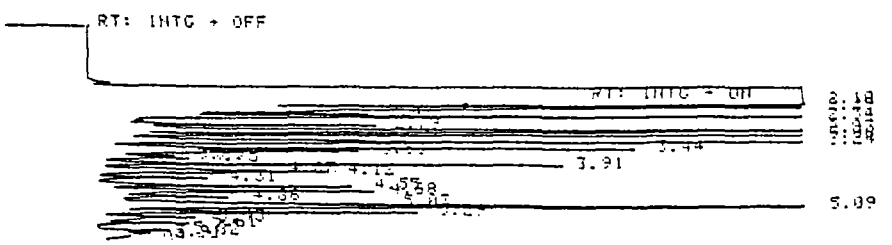




[hp] 5880A SAMPLER INJECTION @ 13:36 APR 16, 1988
SAMPLE # : ID CODE :
5 165 PPM JF
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
9.31	0.42	BB	1	5.892	GASOLINE 1
9.91	1.43	BB	2	4.509	GASOLINE 2
10.94	0.54	BB	3	4.572	GASOLINE 3
13.57	2.49	PV	4	17.485	GASOLINE 4
14.55	3.58	BB	5	22.028	GASOLINE 5
17.12	6.04	VV	6	172.680	GASOLINE 6
25.18	6.87	BB	7	150.989	DIESEL 1
26.79	2.62	BB	8	66.014	DIESEL 2
28.31	1.62	BV	9	35.849	DIESEL 3
28.40	40.86	VB	10	ISTD 1	PRISTANE
29.75	0.54	BB	11	16.881	DIESEL 4
31.12	0.52	BB	12	16.241	DIESEL 5
32.43	0.80	BB	13	25.974	DIESEL 6
33.69	5.21	BV	14	175.829	DIESEL 7

MULTIPLIER = 1
ISTD 1 AMT = 29.18



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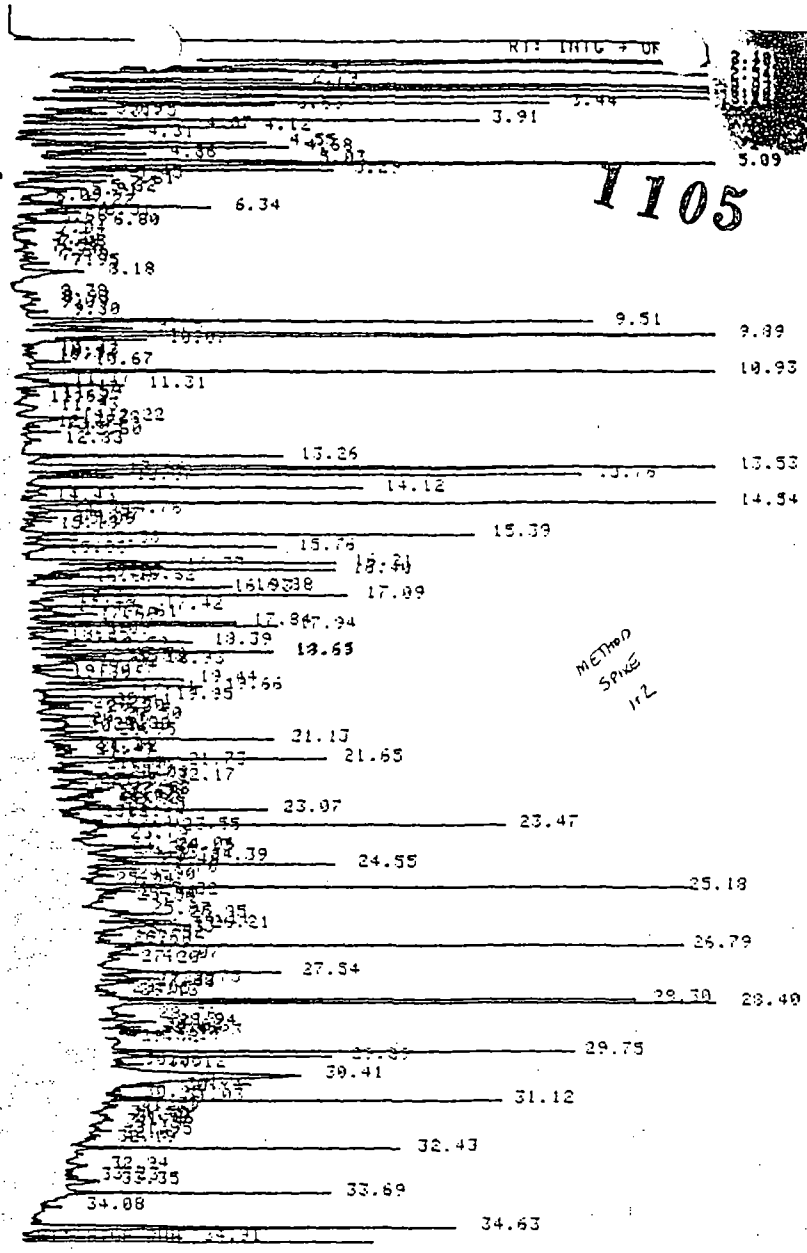

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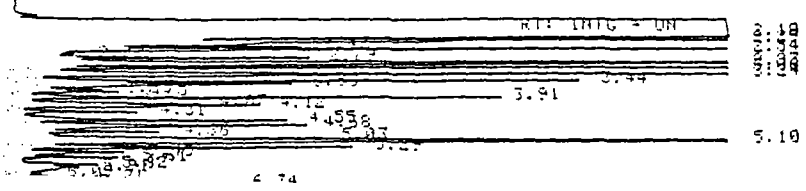
Chp I 5880A SAMPLER INJECTION @ 14:23 APR 16, 1988
SAMPLE # : ID CODE :
6 M SPIKE 1+2
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
9.51	19.70	BV	1	261.756	GASOLINE 1
9.89	79.88	PV	2	262.439	GASOLINE 2
10.93	29.73	BB	3	261.228	GASOLINE 3
13.53	36.50	BV	4	262.865	GASOLINE 4
14.54	41.29	BV	5	263.828	GASOLINE 5
17.09	9.54	BP	6	260.376	GASOLINE 6
25.18	14.43	VV	7	325.865	DIESEL 1
26.79	11.66	PV	8	299.521	DIESEL 2
28.30	10.39	BV	9	287.508	DIESEL 3
28.40	45.27	VB	10	ISTD 1	PRISTANE
29.75	8.79	BP	11	294.847	DIESEL 4
31.12	7.97	VB	12	293.649	DIESEL 5
32.43	7.00	BB	13	284.325	DIESEL 6
33.69	5.51	BB	14	156.874	DIESEL 7

MULTIPLIER = 1
ISTD 1 AMT = 20.18

RT: INTG + OFF



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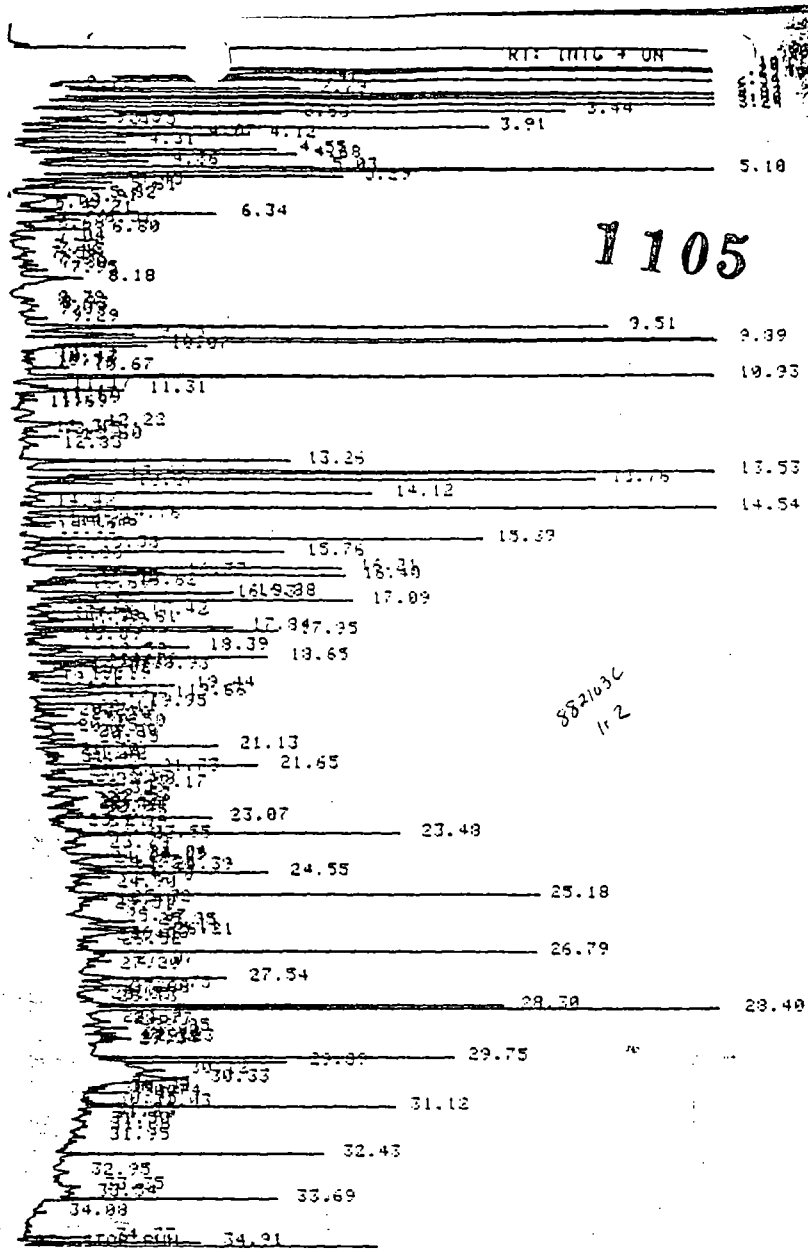


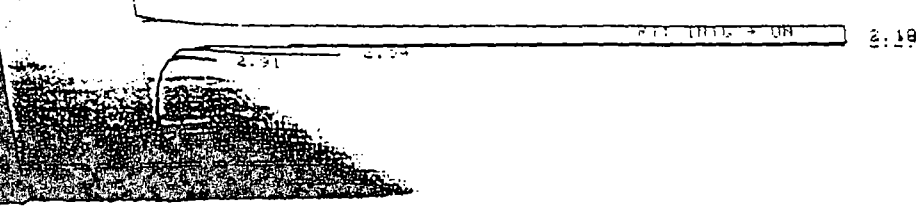
Chp I 5880A SAMPLER INJECTION @ 15:09 APR 16, 1988
SAMPLE # : ID CODE :
7 2103C 1+2
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

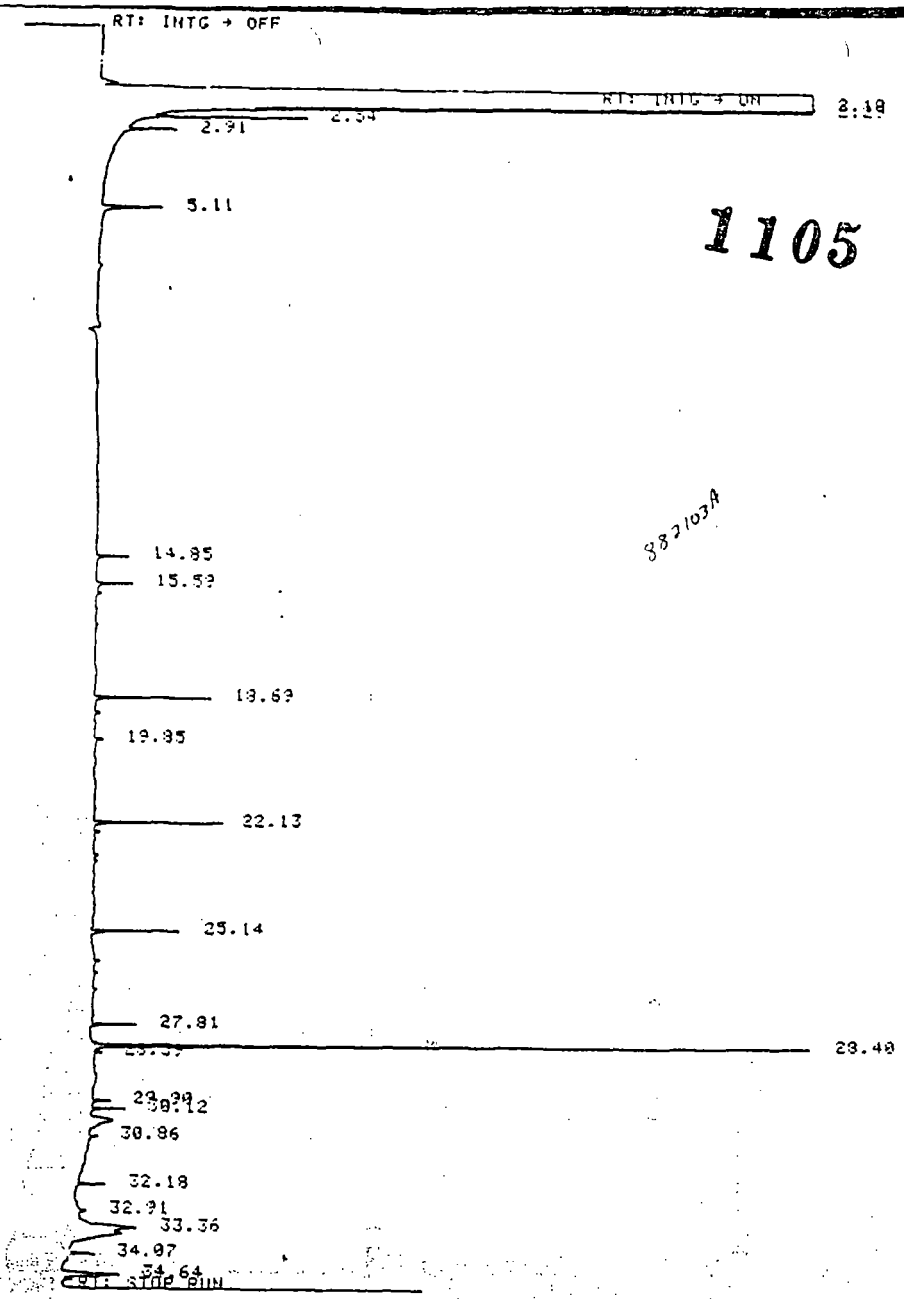
RT	AREA	TYPE	CAL	AMOUNT	NAME
9.51	20.18	BV	1	276.734	GASOLINE 1
9.89	31.69	PV	2	276.941	GASOLINE 2
10.93	30.44	BB	3	275.329	GASOLINE 3
13.53	37.42	BV	4	278.080	GASOLINE 4
14.54	42.22	BV	5	278.342	GASOLINE 5
17.09	9.85	BV	6	277.328	GASOLINE 6
25.18	10.89	BV	7	239.797	DIESEL 1
26.79	9.17	BV	8	230.490	DIESEL 2
28.30	8.49	BV	9	226.717	DIESEL 3
28.40	44.19	VB	10	ISTD 1	PRISTANE
29.75	6.88	BP	11	226.983	DIESEL 4
31.12	6.39	VB	12	229.120	DIESEL 5
32.43	5.63	BB	13	222.625	DIESEL 6
33.69	4.41	BB	14	86.824	DIESEL 7 ← interference

6 PEAK AVERAGE

MULTIPLIER = 1
ISTD 1 AMT = 20.18

RT: INTG → OFF





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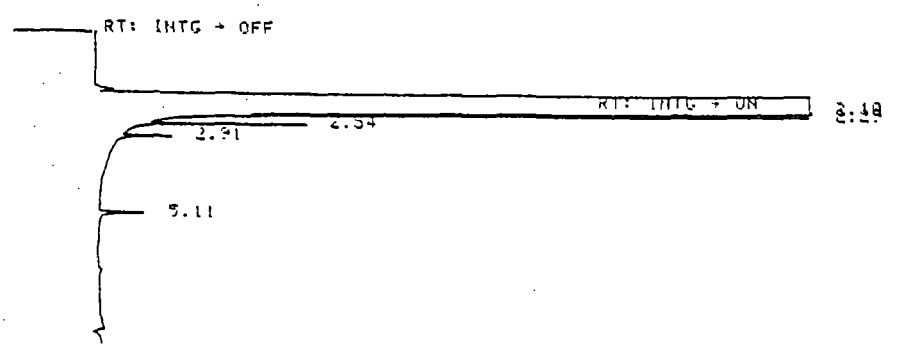
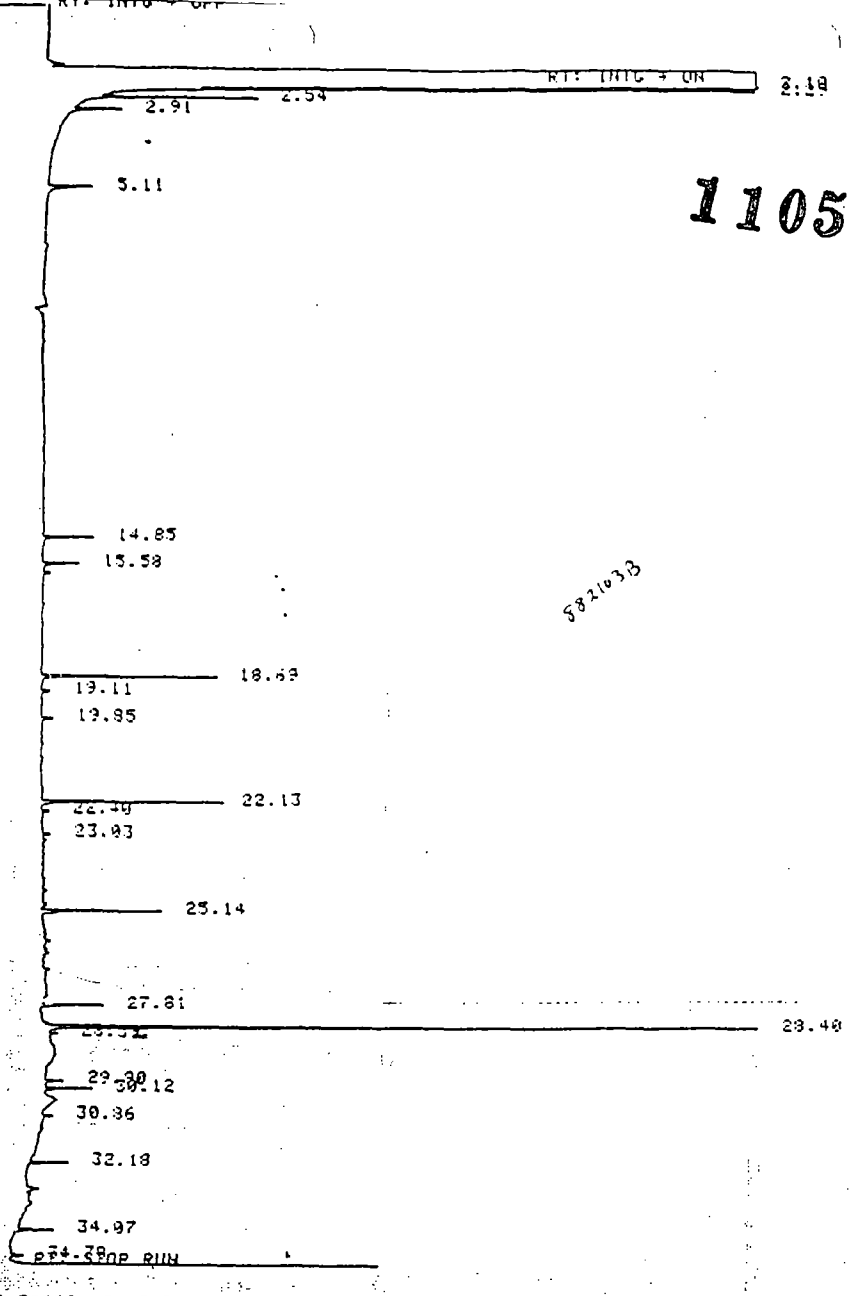
3821037A

Exp 5880A SAMPLER INJECTION @ 15:55 APR 16, 1988
SAMPLE # : ID CODE :
8 2103A
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
14.85	0.75	BB	5	4.882	GASOLINE 5 } 87%
18.69	2.59	BB	6	72.611	GASOLINE 6 }
25.14	2.18	BB	7	49.537	DIESEL 1
28.40	38.32	BB	10	ISTD 1	PRISTANE
29.90	0.37	BB	11	12.227	DIESEL 4
30.86	0.20	BB	12	6.674	DIESEL 5 } 2%
32.18	0.59	BB	13	20.703	DIESEL 6 }
33.36	2.13	BB	14	94.953	DIESEL 7

MULTIPLIER = 1
ISTD 1 AMT = 20.18





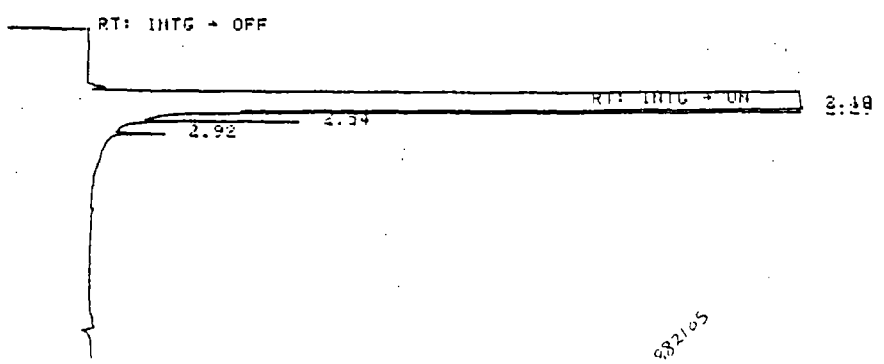
1105

5821033

[hp] 5880A SAMPLER INJECTION @ 16:42 APR 16, 1988
SAMPLE # : ID CODE :
9 2103B
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
14.85	1.18	BB	5	7.753	GASOLINE 5
18.69	3.81	BB	6	110.739	GASOLINE 6
25.14	2.73	BB	7	63.147	DIESEL 1
28.40	38.32	BB	10	ISTD 1	PRISTANE
29.90	0.38	BB	11	12.668	DIESEL 4
30.86	0.27	BB	12	9.026	DIESEL 5
32.18	0.83	BB	13	29.025	DIESEL 6
34.07	0.73	BB	14	32.629	DIESEL 7

MULTIPLIER = 1
ISTD 1 AMT = 20.18



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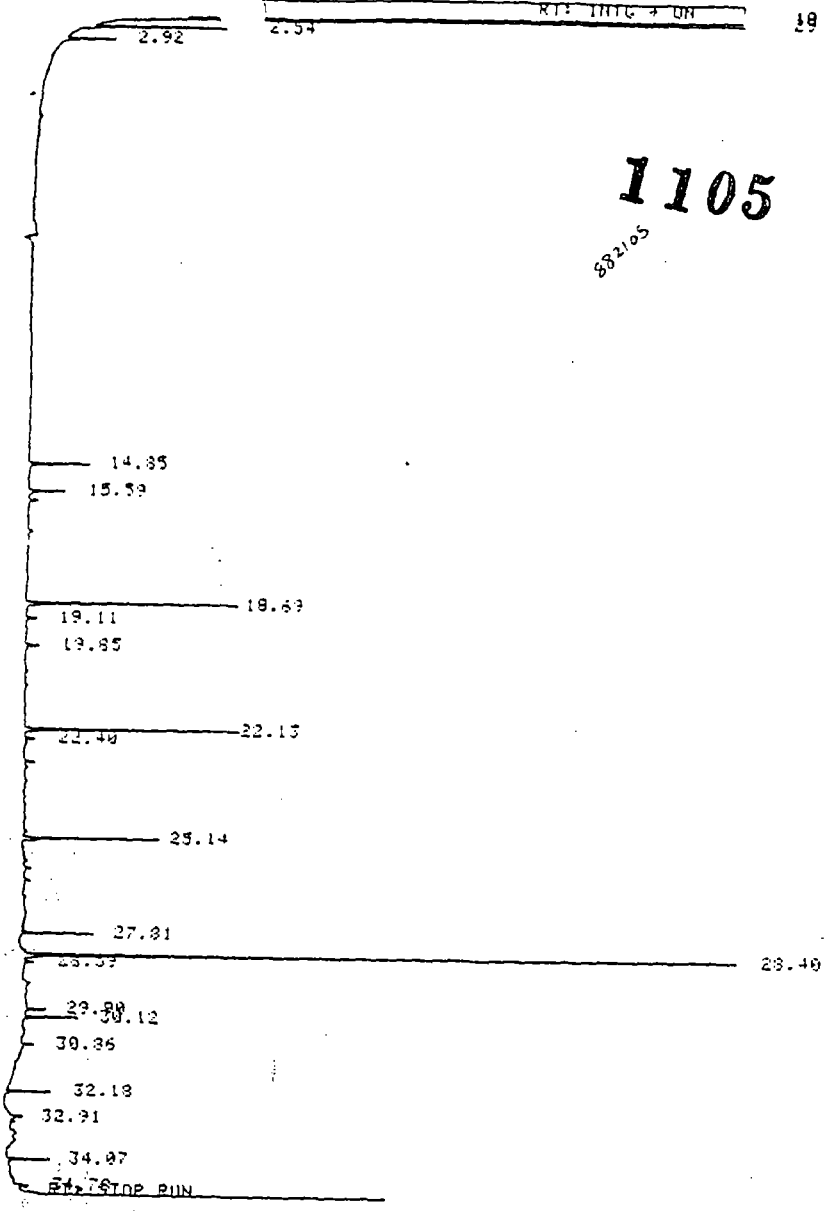
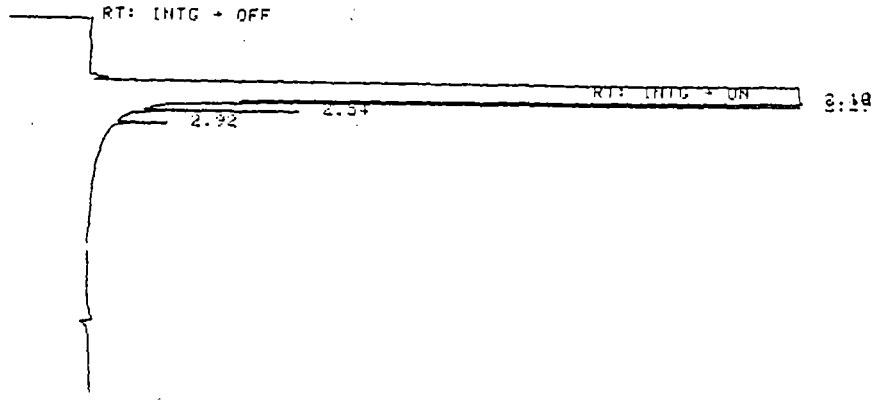
882105



HP 5880A SAMPLER INJECTION @ 17:29 APR 16, 1989
SAMPLE # : ID CODE :
10 2105
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
14.85	1.40	BB	5	9.129	GASOLINE 5
18.69	4.72	BB	6	138.568	GASOLINE 6
25.14	3.14	BB	7	71.014	DIESEL 1
28.40	38.44	BB	10	ISTD 1	PRISTANE
29.90	0.38	BB	11	12.579	DIESEL 4
30.86	0.29	BB	12	9.555	DIESEL 5
32.18	0.97	BB	13	33.748	DIESEL 6
34.07	0.96	BB	14	42.573	DIESEL 7

MULTIPLIER = 1
ISTD 1 AMT = 20.18



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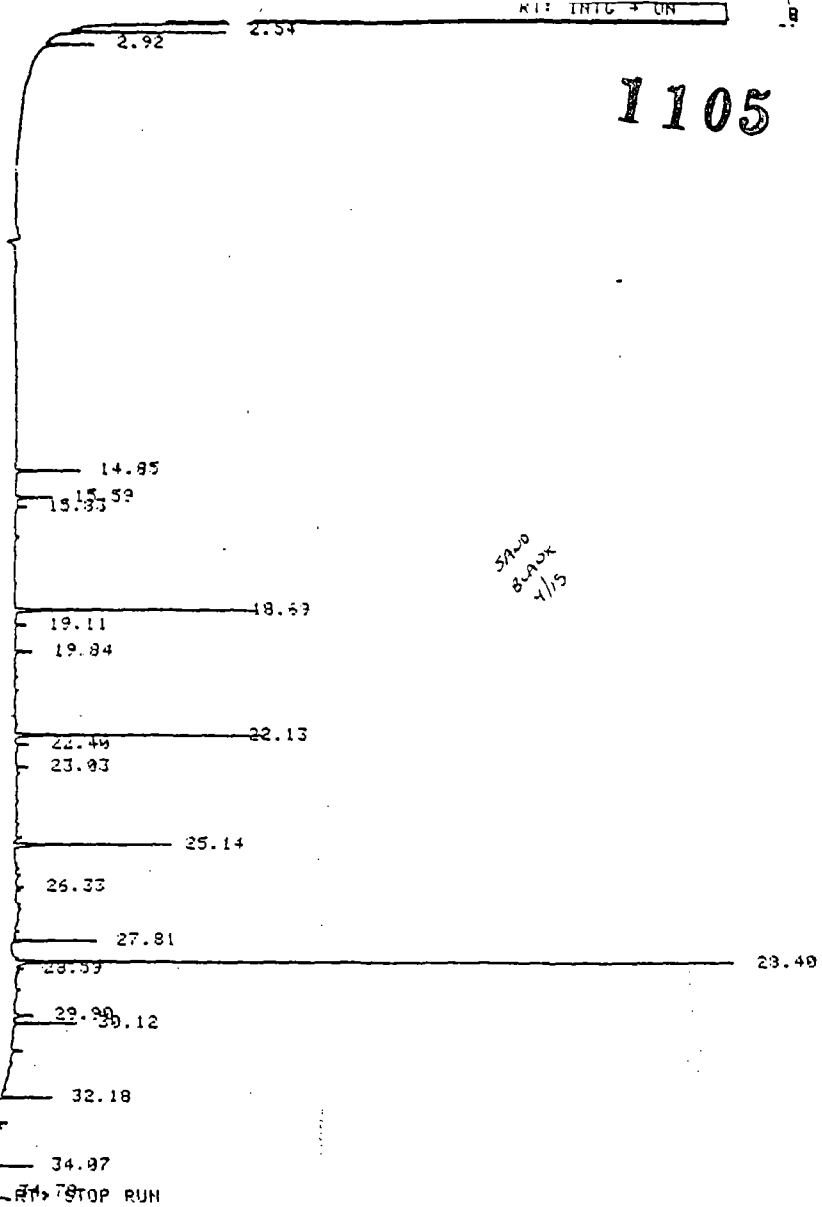

SAND BLANK 4/15

[hp] 5880A SAMPLER INJECTION @ 18:14 APR 16, 1988
SAMPLE # : ID CODE :
11 BLK 4-15
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
14.85	1.55	BB	5	10.068	GASOLINE 5 } crm
15.83	0.28	BB	6	7.917	GASOLINE 6
25.14	3.58	BB	7	80.696	DIESEL 1
26.33	0.04	BB	8	1.141	DIESEL 2 - crm
28.40	38.58	BV	10	ISTD 1	PRISTANE
29.90	0.52	BB	11	17.148	DIESEL 4 } crm
32.18	1.09	BB	13	37.561	DIESEL 6
34.07	1.06	BB	14	46.998	DIESEL 7

MULTIPLIER = 1
ISTD 1 AMT = 20.18

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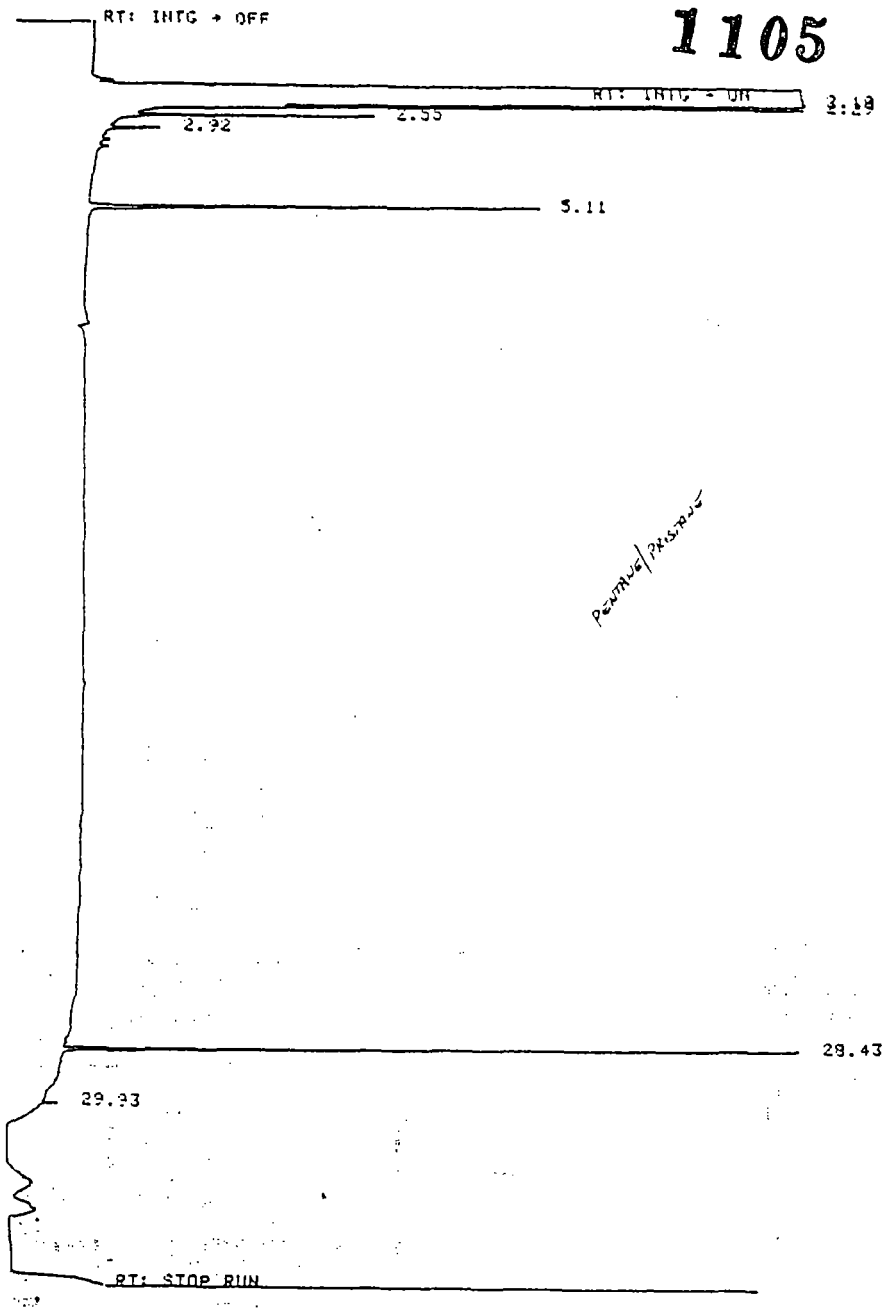
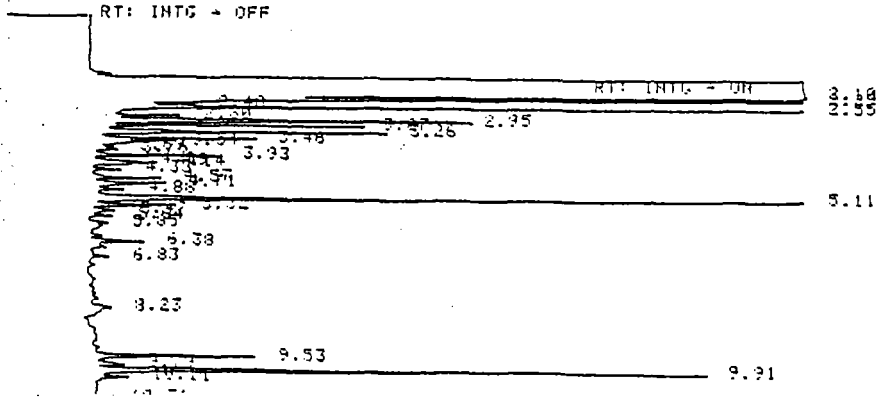
OVEN TEMP NOT READY

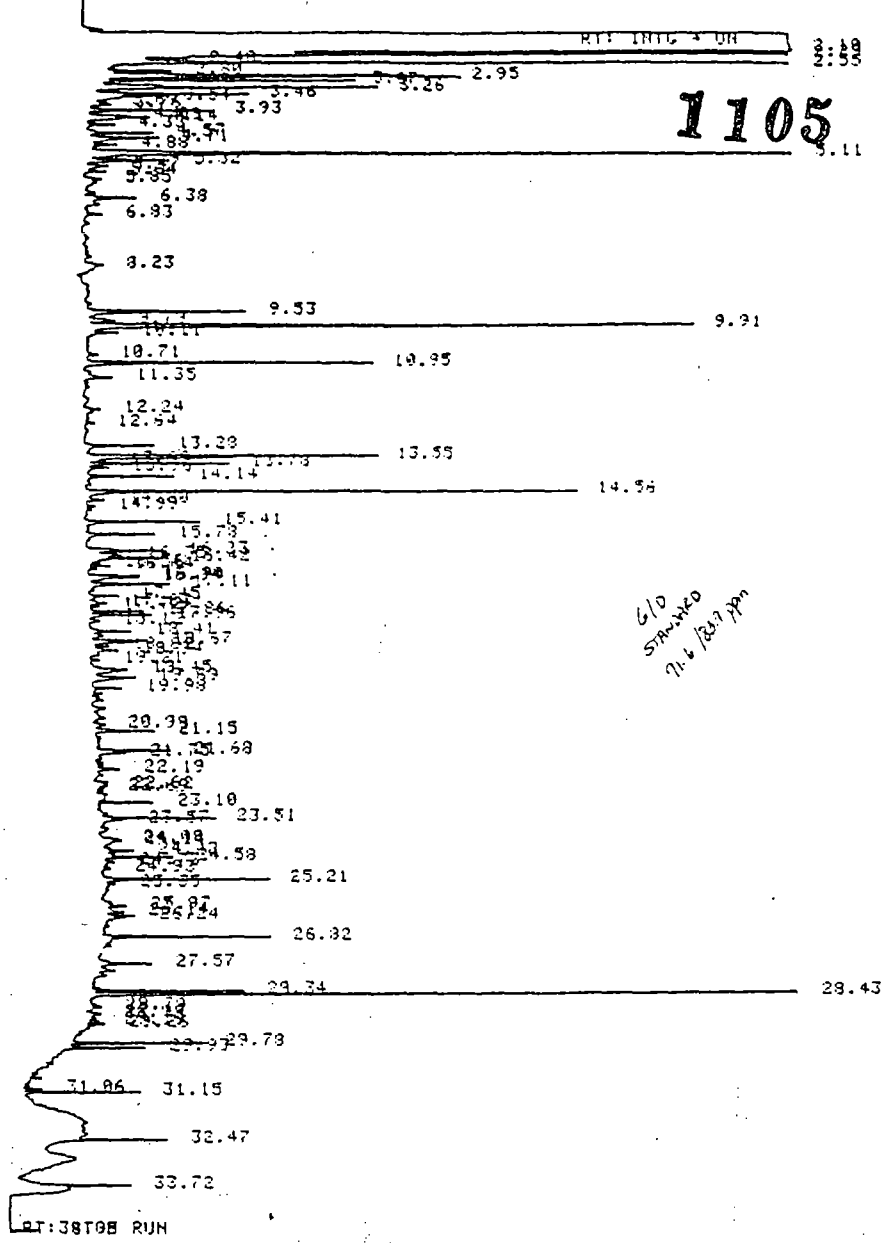


[hp] 5880A SAMPLER INJECTION @ 22:27 APR 14, 1988
SAMPLE # : ID CODE :
8 P/P
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
28.43	38.85	BB	10	ISTD 1	PRISTANE
29.93	0.33	BB	11	10.773	DIESEL 4

MULTIPLIER = 1
ISTD 1 AMT = 20.18





1105

610
STANDARD
91.6 1287 ppm

[hp] 5880A SAMPLER INJECTION @ 23:13 APR 14, 1988
SAMPLE # : ID CODE :
9 1 UL/L G/D
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
9.53	5.20	BB	1	67.266	GASOLINE 1
9.91	22.31	PB	2	67.776	GASOLINE 2
10.95	8.34	BB	3	67.381	GASOLINE 3
13.55	10.35	BV	4	67.147	GASOLINE 4
14.56	11.37	BB	5	66.679	GASOLINE 5
17.11	2.53	BB	6	67.534	GASOLINE 6
25.21	3.65	BB	7	76.380	DIESEL 1
26.82	3.29	BB	8	80.537	DIESEL 2
28.34	2.95	PV	9	80.742	DIESEL 3
28.43	40.59	VB	10	ISTD 1	PRISTANE
29.78	2.58	BB	11	80.677	DIESEL 4
31.15	2.28	PB	12	82.326	DIESEL 5
32.47	1.94	BB	13	79.653	DIESEL 6
33.72	2.73	BV	14	156.713	DIESEL 7

MULTIPLIER = 1
ISTD 1 AMT = 20.18

[hp] 5880A SAMPLER INJECTION @ 23:13 APR 14, 1988
SAMPLE # : ID CODE :
9 1 UL/L G/D
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
9.53	5.20	BB	1	71.639	GASOLINE 1
9.91	22.31	PB	2	71.639	GASOLINE 2

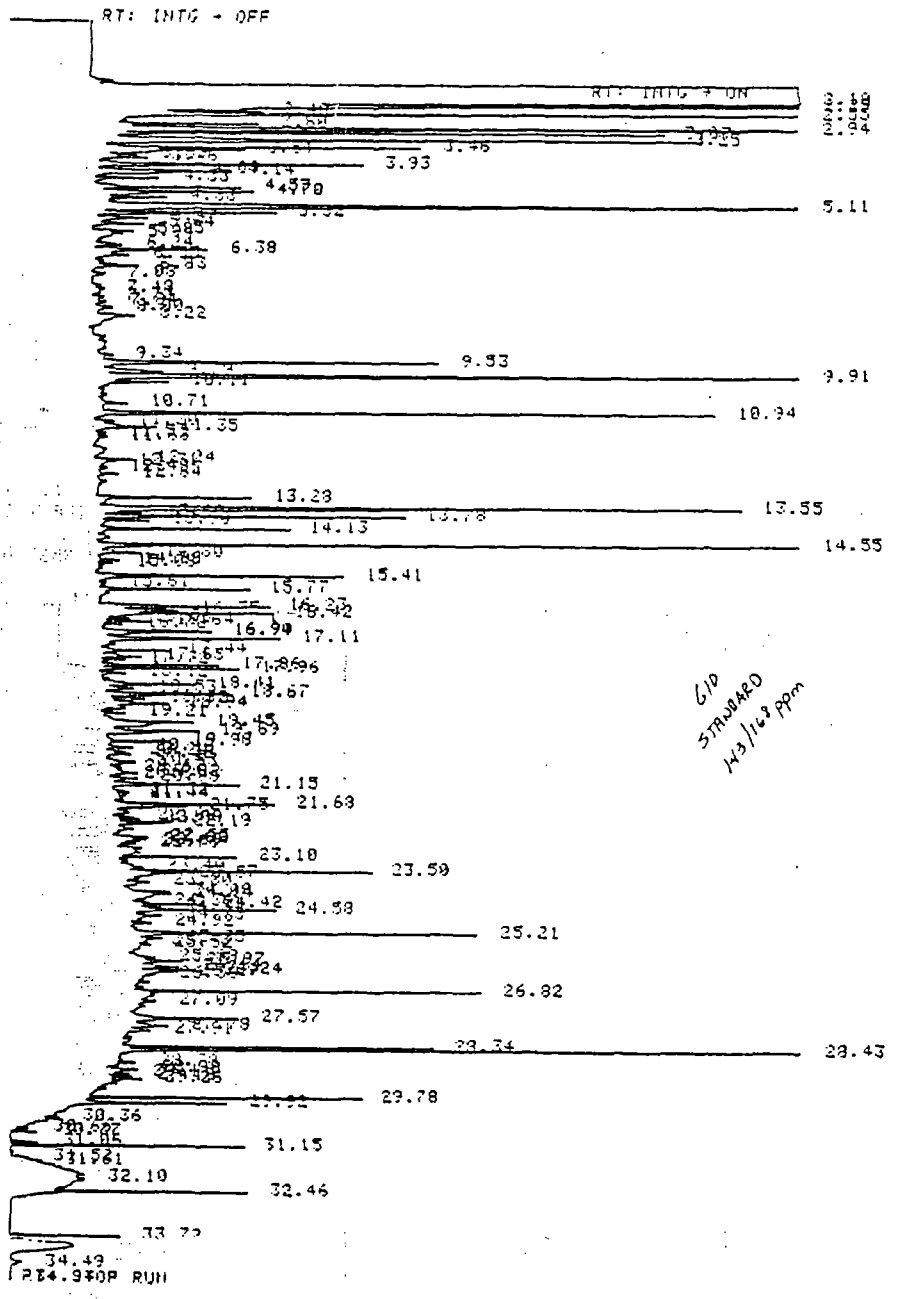
[hp] 5880A SAMPLER IN TION @ 23:13 APR 14, 1988
SAMPLE # : ID CODE :
9 1 UL/L G/D
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

1105

RT	AREA	TYPE	CAL	AMOUNT	NAME
9.53	5.20	BB	1	71.639	GASOLINE 1
9.91	22.31	PB	2	71.639	GASOLINE 2
10.95	8.34	BB	3	71.639	GASOLINE 3
13.55	10.35	BV	4	71.639	GASOLINE 4
14.56	11.37	BB	5	71.639	GASOLINE 5
17.11	2.53	BB	6	71.639	GASOLINE 6
25.21	3.65	BB	7	83.908	DIESEL 1
26.82	3.29	BB	8	83.908	DIESEL 2
28.34	2.95	PV	9	83.908	DIESEL 3
28.43	40.59	VB	10	ISTD 1	PRISTANE
29.78	2.58	BB	11	83.908	DIESEL 4
31.15	2.23	PB	12	83.908	DIESEL 5
32.47	1.94	BB	13	83.908	DIESEL 6
33.72	2.73	BV	14	83.908	DIESEL 7

MULTIPLIER = 1
ISTD 1 AMT = 20.18

OVEN TEMP NOT READY



[hp] 5880A SAMPLER INJECTION @ 23:59 APR 14, 1988
SAMPLE # : ID CODE :
10 2UL/L G/D
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

[illegible] STOP RUN

[hp] 5880A SAMPLER INJECTION @ 23:59 APR 14, 1988
SAMPLE # : ID CODE :
10 2UL/L G/D
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
9.53	10.86	BB	1	141.094	GASOLINE 1
9.91	46.11	PB	2	141.231	GASOLINE 2
10.94	17.42	BB	3	141.780	GASOLINE 3
13.55	21.40	BV	4	140.617	GASOLINE 4
14.55	23.71	PP	5	140.239	GASOLINE 5
17.11	5.70	VB	6	139.602	GASOLINE 6
25.21	7.73	BV	7	162.945	DIESEL 1
26.82	7.08	BV	8	181.860	DIESEL 2
28.34	5.99	BV	9	168.621	DIESEL 3
28.43	42.54	VB	10	ISTD 1	PRISTANE
29.78	5.25	BB	11	165.435	DIESEL 4
31.15	4.70	PB	12	165.523	DIESEL 5
32.46	4.23	BB	13	163.682	DIESEL 6
33.72	4.46	BV	14	274.159	DIESEL 7

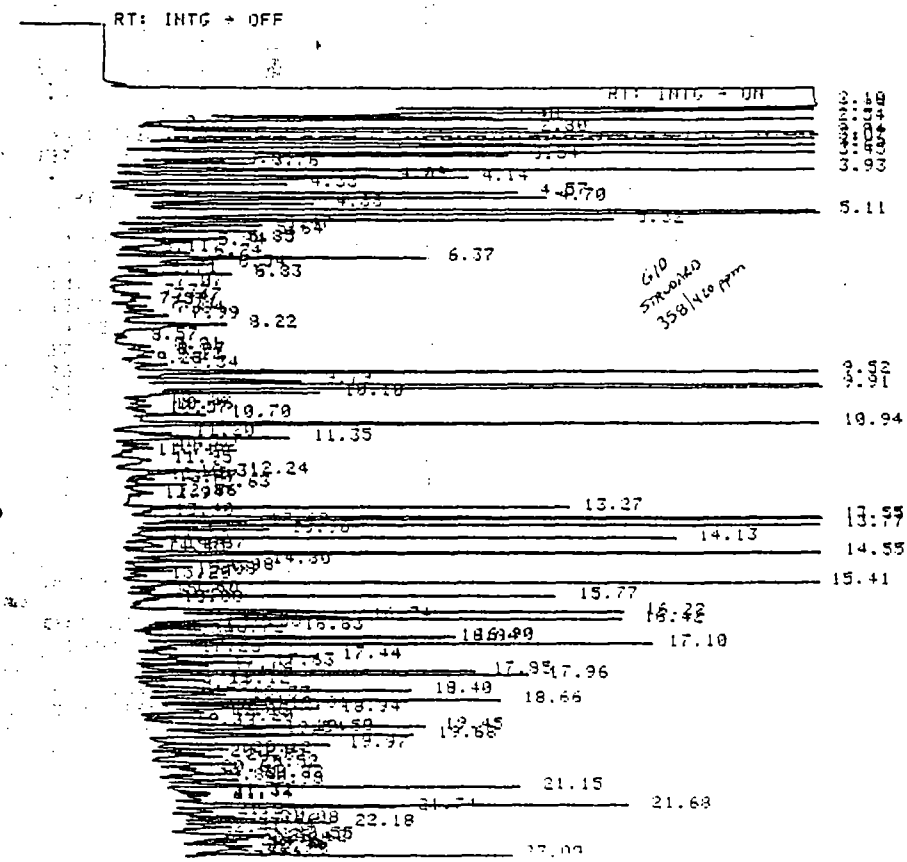
MULTIPLIER = 1
ISTD 1 AMT = 20.18

[hp] 5880A SAMPLER INJECTION @ 23:59 APR 14, 1988
SAMPLE # : ID CODE :
10 2UL/L G/D
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

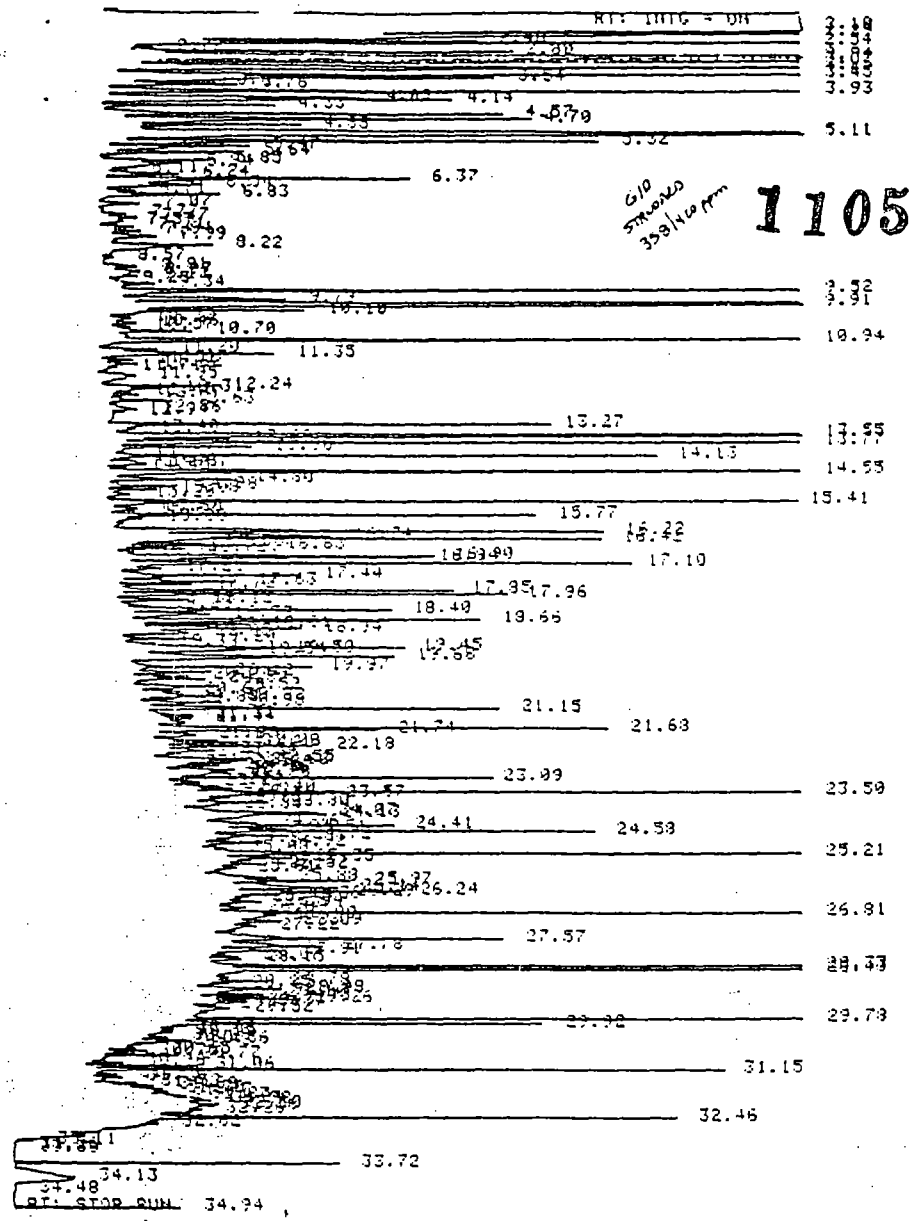
RT	AREA	TYPE	CAL	AMOUNT	NAME
9.53	10.86	BB	1	143.278	GASOLINE 1
9.91	46.11	PB	2	143.278	GASOLINE 2
10.94	17.42	BB	3	143.278	GASOLINE 3
13.55	21.40	BV	4	143.278	GASOLINE 4
14.55	23.71	PP	5	143.278	GASOLINE 5
17.11	5.70	VB	6	143.278	GASOLINE 6
25.21	7.73	BV	7	167.696	DIESEL 1
26.82	7.08	BV	8	167.696	DIESEL 2
28.34	5.99	BV	9	167.696	DIESEL 3
28.43	42.54	VB	10	ISTD 1	PRISTANE
29.78	5.25	BB	11	167.696	DIESEL 4
31.15	4.70	PB	12	167.696	DIESEL 5
32.46	4.23	BB	13	167.696	DIESEL 6
33.72	4.46	BV	14	167.696	DIESEL 7

MULTIPLIER = 1
ISTD 1 AMT = 20.18

OVEN TEMP NOT READY



147



[hp] 5880A SAMPLER INJECTION @ 00:46 APR 15, 1988
SAMPLE # : ID CODE :
11 SUL/L G/D
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
9.52	28.89	BB	1	367.909	GASOLINE 1
9.91	121.03	PB	2	367.415	GASOLINE 2
10.94	45.91	BB	3	369.935	GASOLINE 3
13.53	56.81	VV	4	370.299	GASOLINE 4
14.55	63.16	VV	5	368.591	GASOLINE 5
17.10	16.24	VV	6	388.314	GASOLINE 6
25.21	21.88	VV	7	433.768	DIESEL 1
26.81	18.46	PV	8	450.575	DIESEL 2
28.33	15.61	PV	9	408.854	DIESEL 3
28.43	51.11	VB	10	ISTD 1	PRISTANE
29.78	13.73	BV	11	426.595	DIESEL 4
31.15	12.33	VB	12	430.492	DIESEL 5
32.46	10.89	BB	13	422.494	DIESEL 6
33.72	7.81	BP	14	426.649	DIESEL 7

MULTIPLIER = 1
ISTD 1 AMT = 20.18

[hp] 5880A SAMPLER INJECTION @ 00:46 APR 15, 1988
SAMPLE # : ID CODE :
11 SUL/L G/D
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
9.52	28.89	BB	1	358.195	GASOLINE 1
9.91	121.03	PB	2	358.195	GASOLINE 2
10.94	45.91	BB	3	358.195	GASOLINE 3

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MULTIPLIER = 1
ISTD 1 AMT = 20.18

[hp] 5880A SAMPLER INJECTION @ 00:46 APR 15, 1988
SAMPLE # : ID CODE :
11 5UL/L G/D

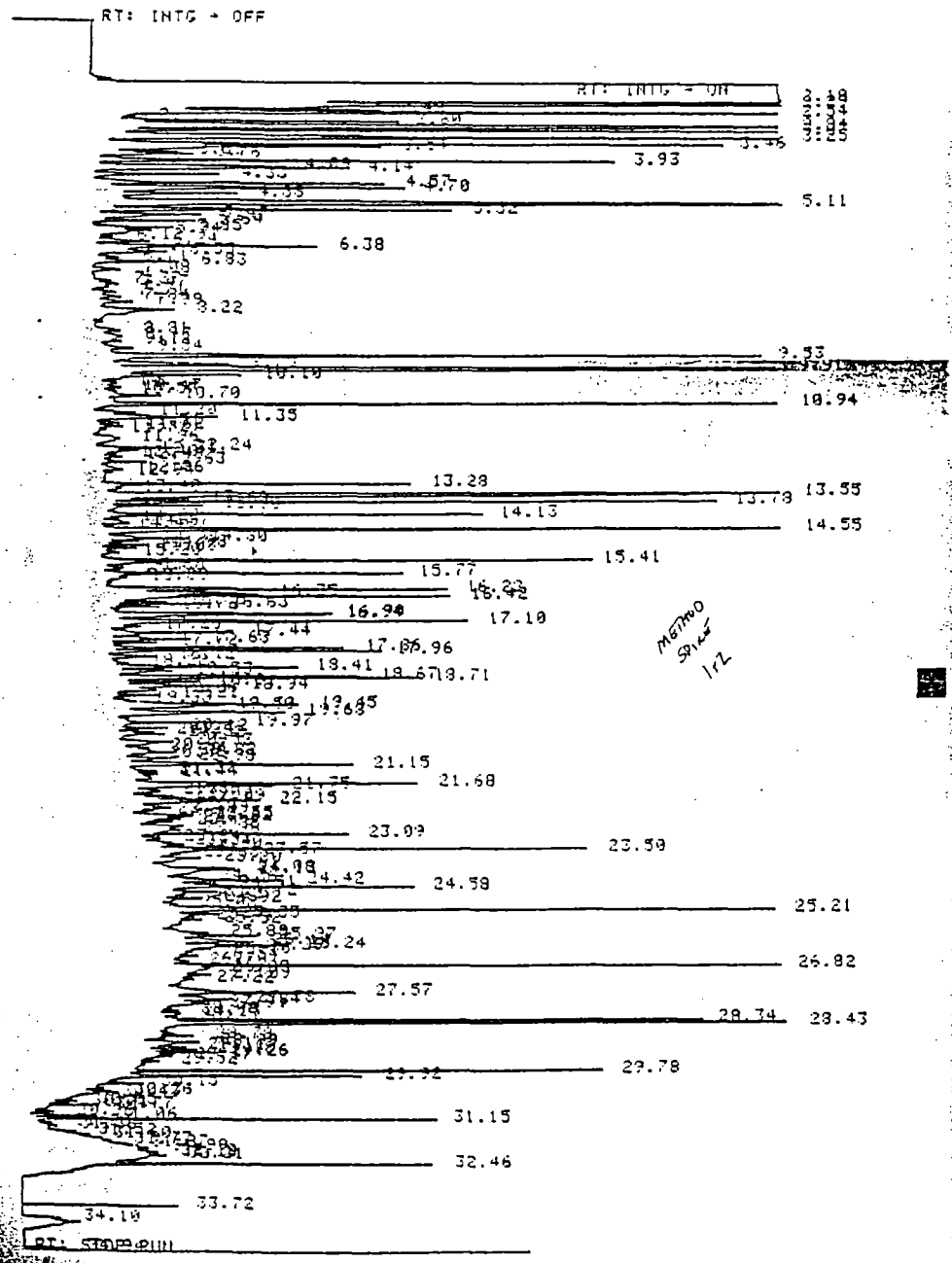
1105

GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
9.52	28.89	BB	1	358.195	GASOLINE 1
9.91	121.03	PB	2	358.195	GASOLINE 2
10.94	45.91	BB	3	358.195	GASOLINE 3
13.55	56.81	VV	4	358.195	GASOLINE 4
14.55	63.16	VV	5	358.195	GASOLINE 5
17.10	16.24	VV	6	358.195	GASOLINE 6
25.21	21.88	VV	7	419.542	DIESEL 1
26.81	18.46	PV	8	419.542	DIESEL 2
28.33	15.61	PV	9	419.542	DIESEL 3
28.43	51.11	VB	10	ISTD 1	PRISTANE
29.78	13.73	BV	11	419.542	DIESEL 4
31.15	12.33	VB	12	419.542	DIESEL 5
32.46	10.89	BB	13	419.542	DIESEL 6
33.72	7.81	BP	14	419.542	DIESEL 7

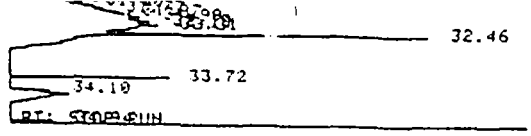
MULTIPLIER = 1
ISTD 1 AMT = 20.18

OVEN TEMP NOT READY



[hp] 5880A SAMPLER INJECTION @ 01:32 APR 15, 1988
SAMPLE # : ID CODE :
12 M SPIKE 1+2

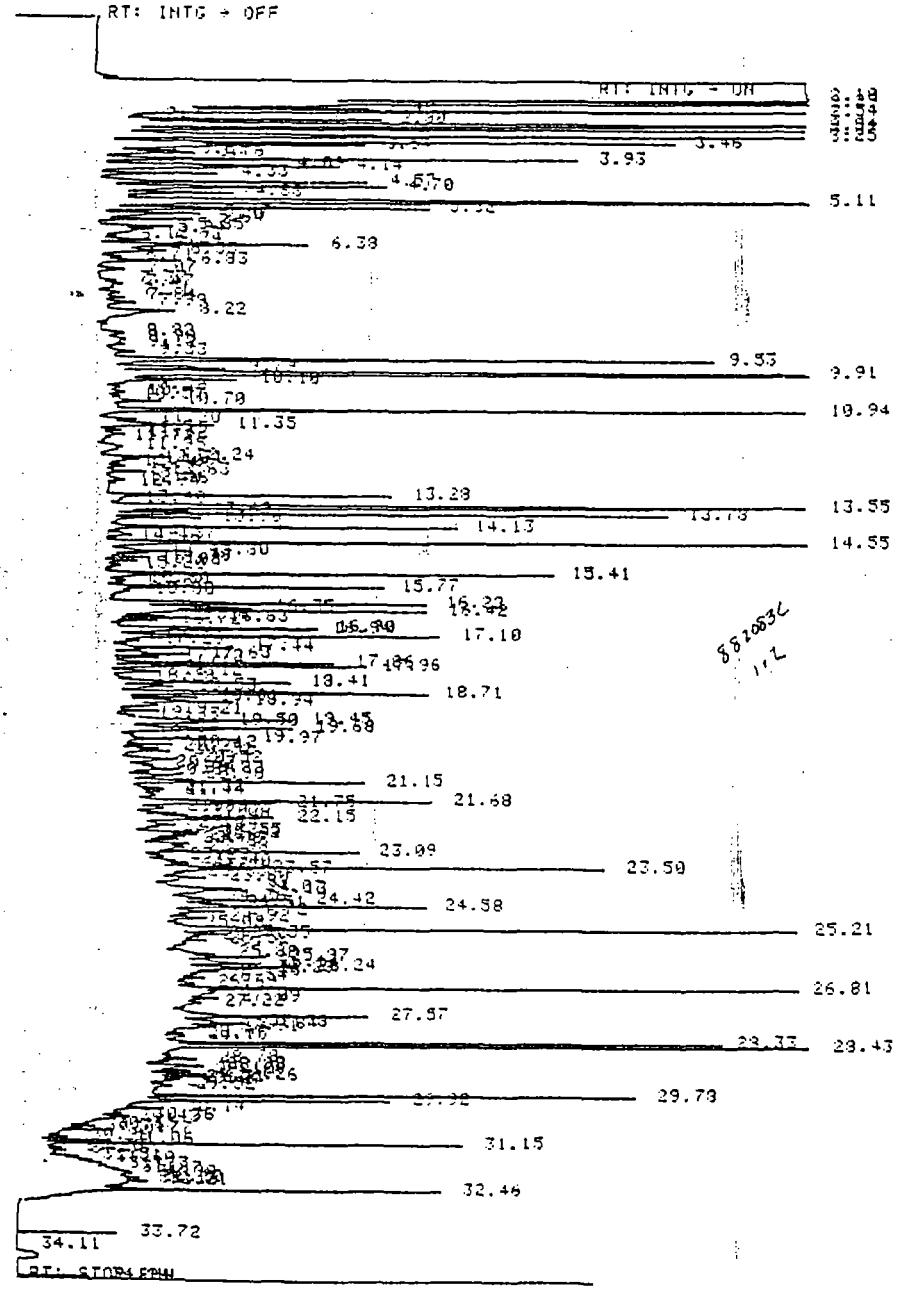
149.



[hp] 5880A SAMPLER INJECTION @ 01:32 APR 15, 1988
SAMPLE # : ID CODE :
12 M SPIKE 1+2
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

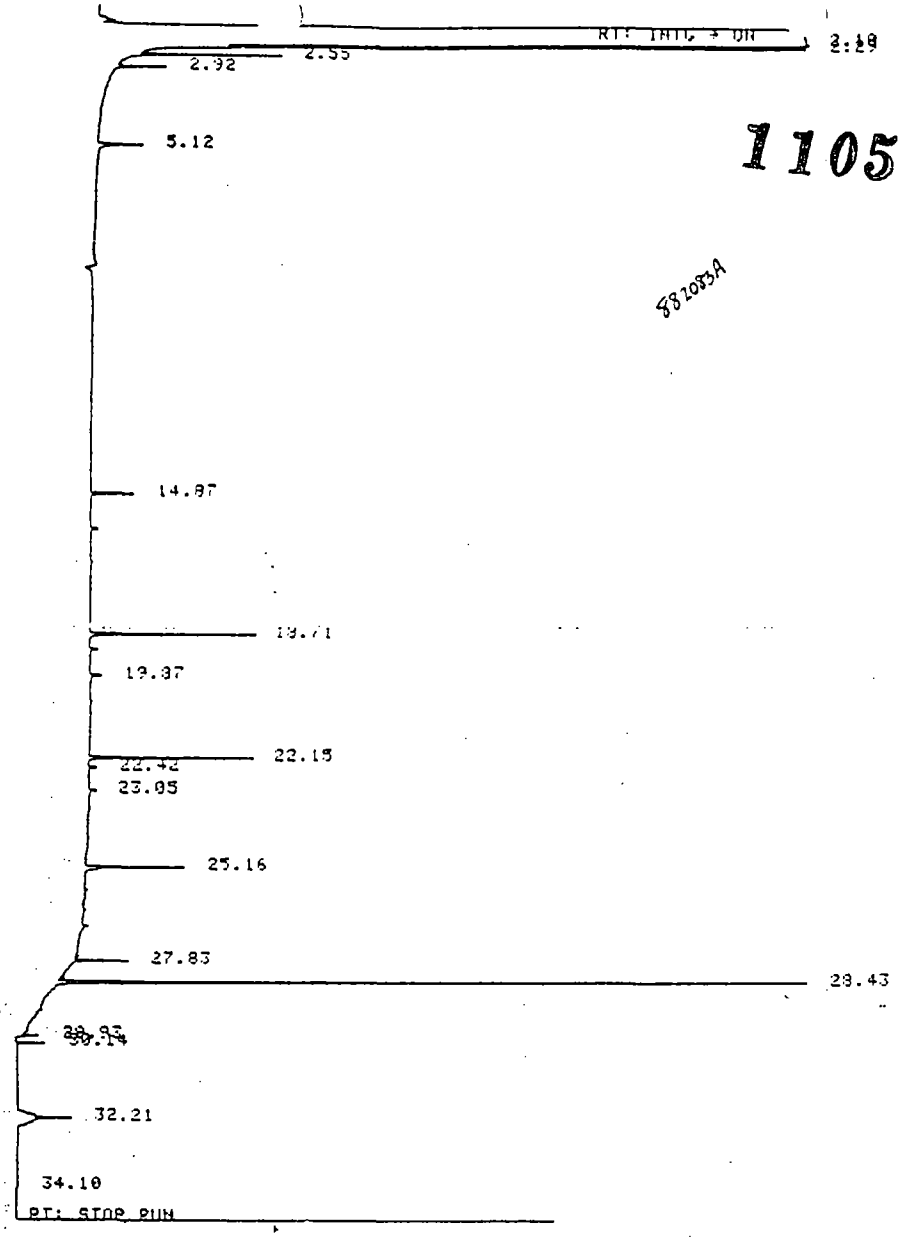
RT	AREA	TYPE	CAL	AMOUNT	NAME
9.53	21.19	BB	1	290.504	GASOLINE 1
9.91	89.22	VB	2	291.355	GASOLINE 2
10.94	33.62	BB	3	289.410	GASOLINE 3
13.55	41.62	BV	4	290.004	GASOLINE 4
14.55	46.64	VV	5	292.729	GASOLINE 5
17.10	11.85	VV	6	292.353	GASOLINE 6
25.21	15.39	VV	7	328.992	DIESEL 1
26.82	12.10	PV	8	297.879	DIESEL 2
28.34	10.32	VV	9	300.700	DIESEL 3
28.43	45.32	VB	10	ISTD 1	PRISTANE
29.78	9.22	BV	11	306.580	DIESEL 4
31.15	7.99	VB	12	294.680	DIESEL 5
32.46	7.19	BB	13	299.088	DIESEL 6
33.72	5.32	BP	14	234.290	DIESEL 7

MULTIPLIER = 1
ISTD 1 AMT = 20.18



[hp] 5880A SAMPLER INJECTION @ 02:13 APR 15, 1988

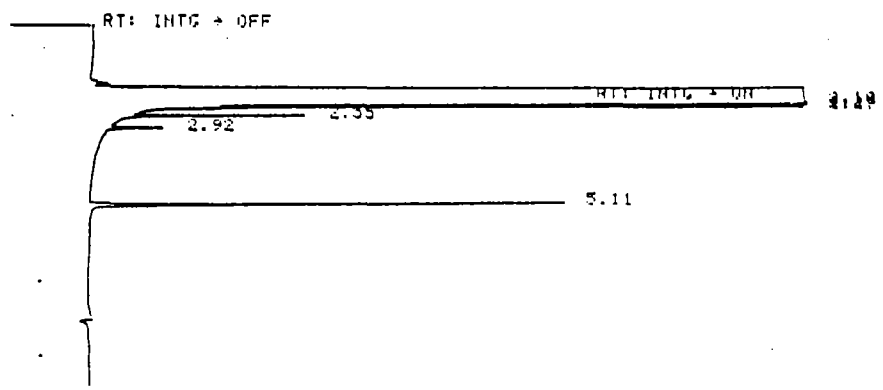
1105



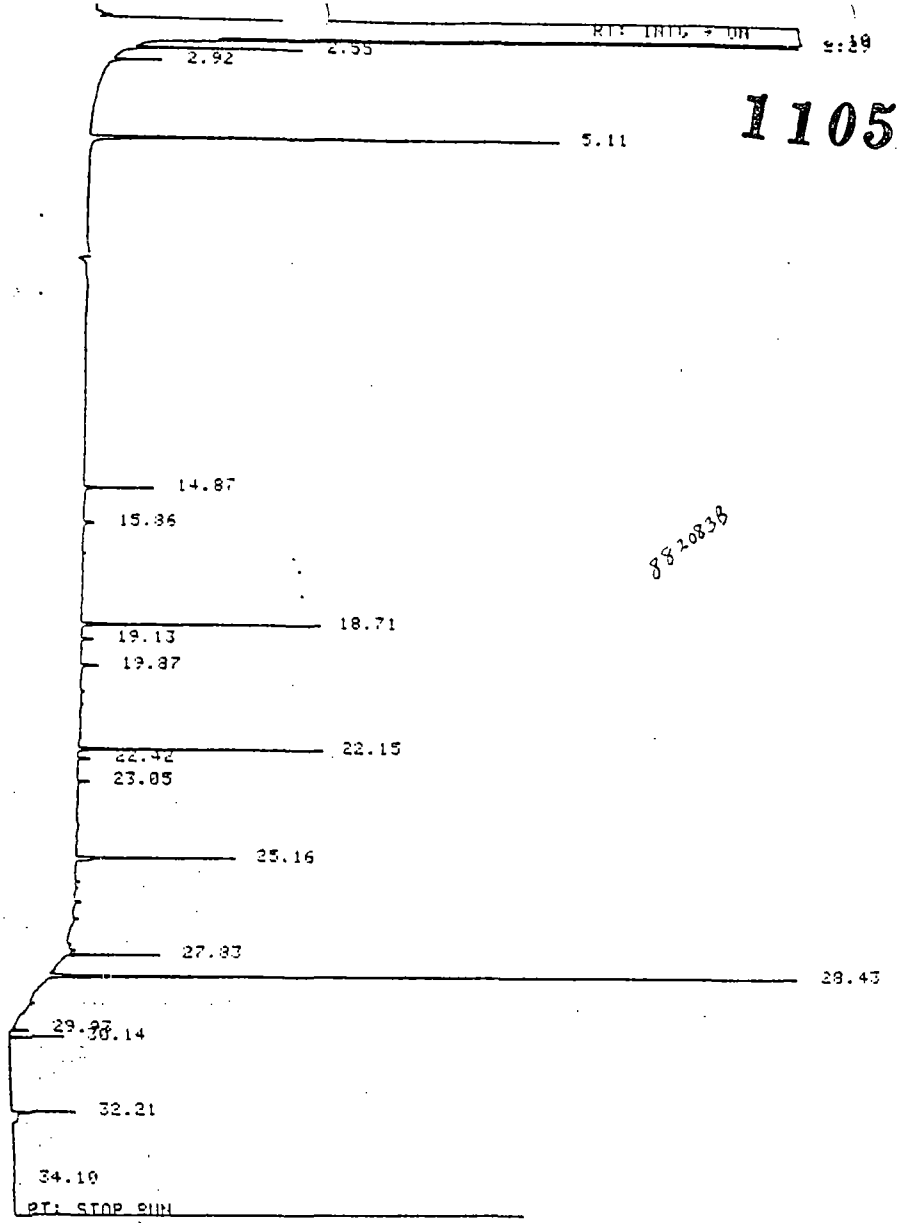
[hp] 5880A SAMPLER INJECTION @ 03:05 APR 15, 1988
SAMPLE # : ID CODE :
14 2083A
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
14.87	1.02	BB	5	6.826	GASOLINE 5
18.71	3.51	BB	6	100.704	GASOLINE 6
25.16	2.36	BB	7	57.357	DIESEL 1
28.43	38.36	BB	10	ISTD 1	PRISTANE
29.93	0.39	BB	11	13.425	DIESEL 4
32.21	0.75	BB	13	34.525	DIESEL 6
34.10	2.28	BB	14	74.296	DIESEL 7

MULTIPLIER = 1
ISTD 1 AMT = 20.18



1105

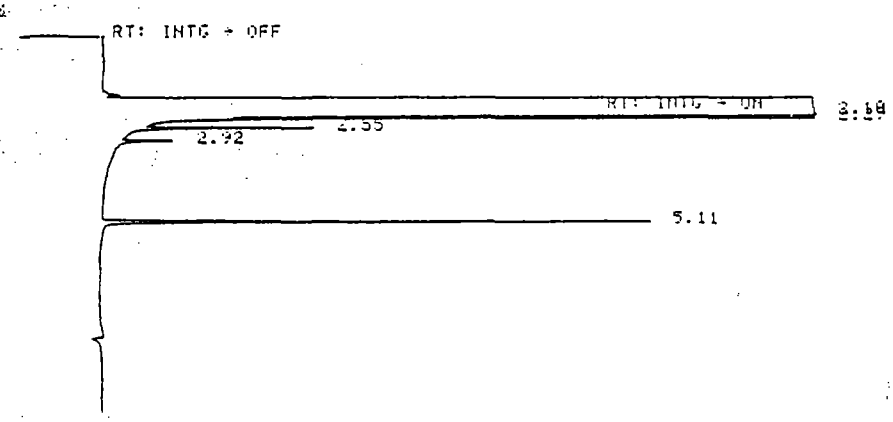


88 20838

Hp 5880A SAMPLER INJECTION @ 03:51 APR 15, 1988
SAMPLE # : ID CODE :
15 20838
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
14.87	1.63	BB	5	10.501	GASOLINE 5 } 6 ppb
15.36	0.21	BB	6	6.023	GASOLINE 6
25.16	3.56	BB	7	83.285	DIESEL 1
28.43	39.81	BB	10	ISTD 1	PRISTANE
29.93	0.35	BB	11	11.582	DIESEL 4 } 6 ppb
32.21	1.25	BB	13	55.150	DIESEL 6
34.10	1.11	BB	14	34.379	DIESEL 7

MULTIPLIER = 1
ISTD 1 AMT = 20.18



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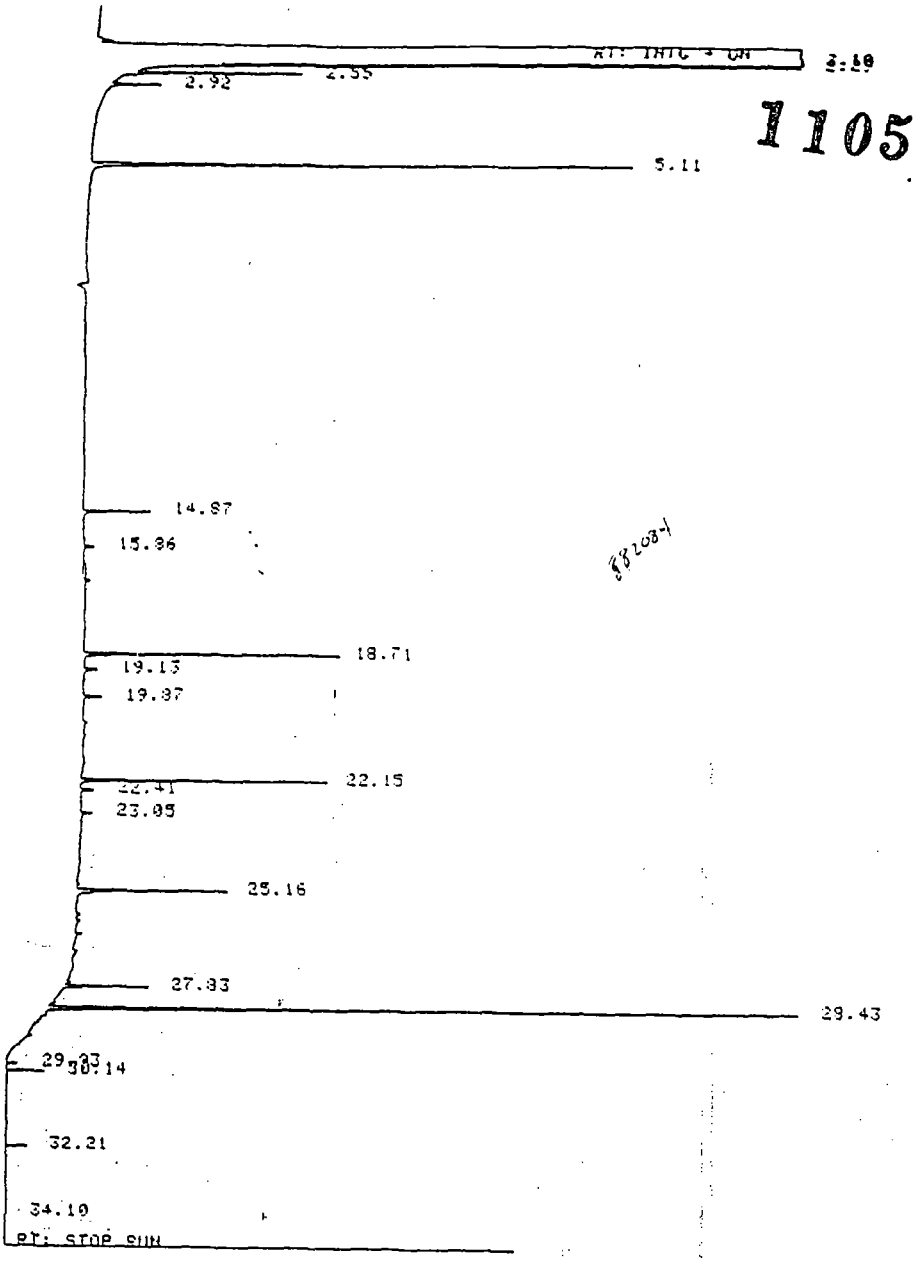


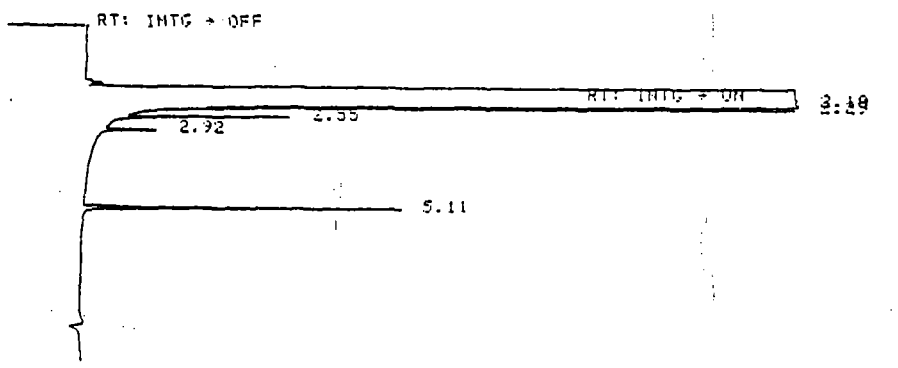
1105

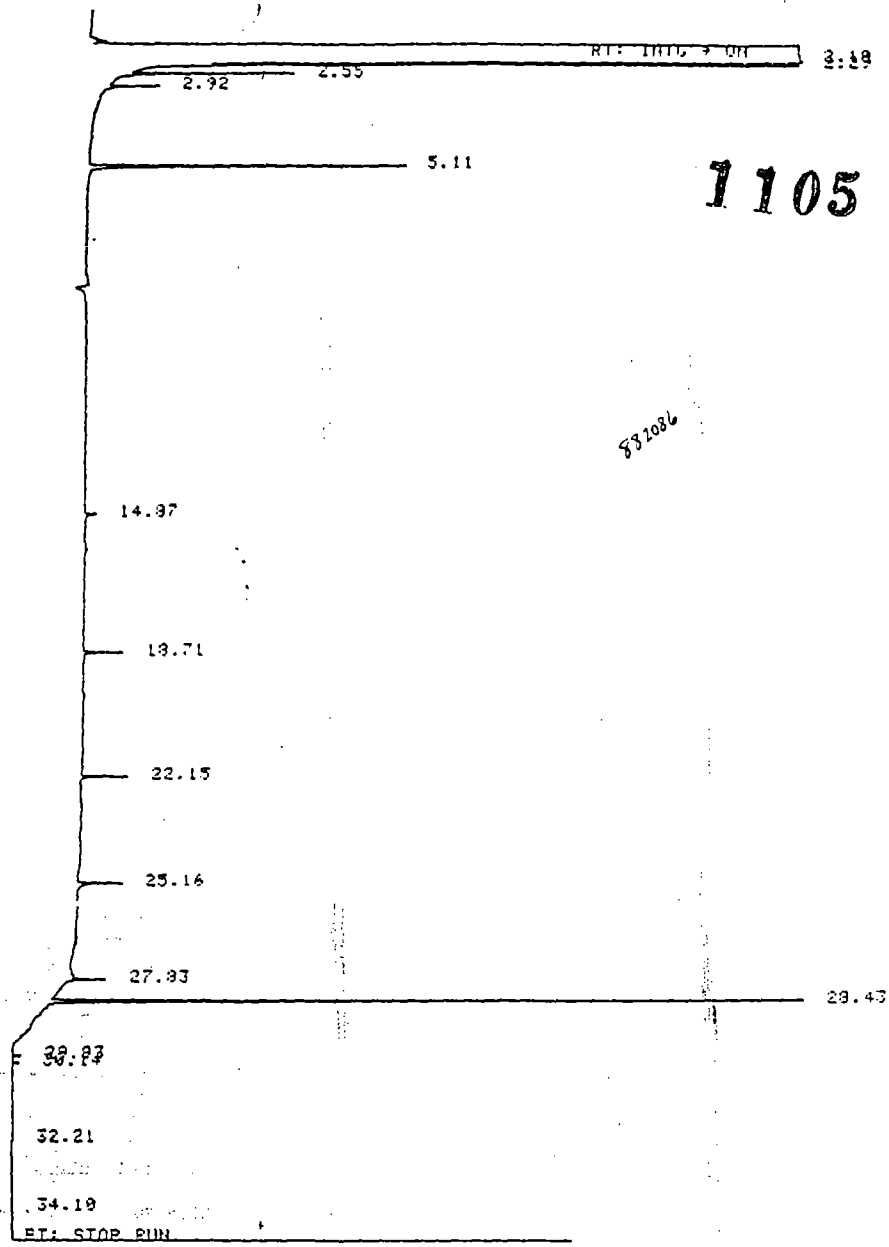
882084

HP 5880A SAMPLER INJECTION @ 04:37 APR 15, 1988
SAMPLE # : ID CODE :
16 2084
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
14.87	1.56	BB	5	10.425	GASOLINE 5 } 17.88
15.86	0.23	BB	6	6.863	GASOLINE 6 }
25.16	3.42	BB	7	83.208	DIESEL 1
28.43	38.35	BB	10	ISTD 1	PRISTANE
29.93	0.38	BB	11	13.215	DIESEL 4 } 47.78
32.21	1.04	BB	13	47.867	DIESEL 6 }
34.10	0.93	BB	14	30.271	DIESEL 7 }

MULTIPLIER = 1
ISTD 1 AMT = 20.18

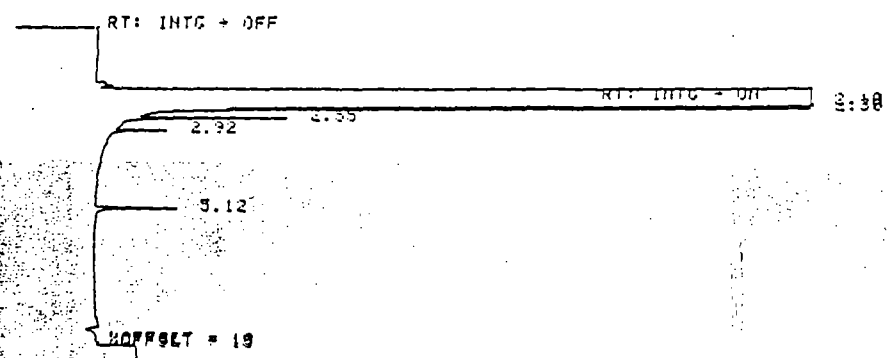




HP 5880A SAMPLER INJECTION @ 05:23 APR 15, 1988
SAMPLE # : ID CODE :
17 2086
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
14.87	0.21	BB	5	1.399	GASOLINE 5 } 5mg
18.71	0.84	BB	6	24.957	GASOLINE 6 }
25.16	0.83	BB	7	19.902	DIESEL 1
28.43	38.84	BB	10	ISTD 1	PRISTANE
29.93	0.34	BB	11	11.398	DIESEL 5 } 8mg
32.21	0.55	BB	13	25.125	DIESEL 6 }
34.10	0.53	BB	14	17.004	DIESEL 7 }

MULTIPLIER = 1
ISTD 1 AMT = 20.18



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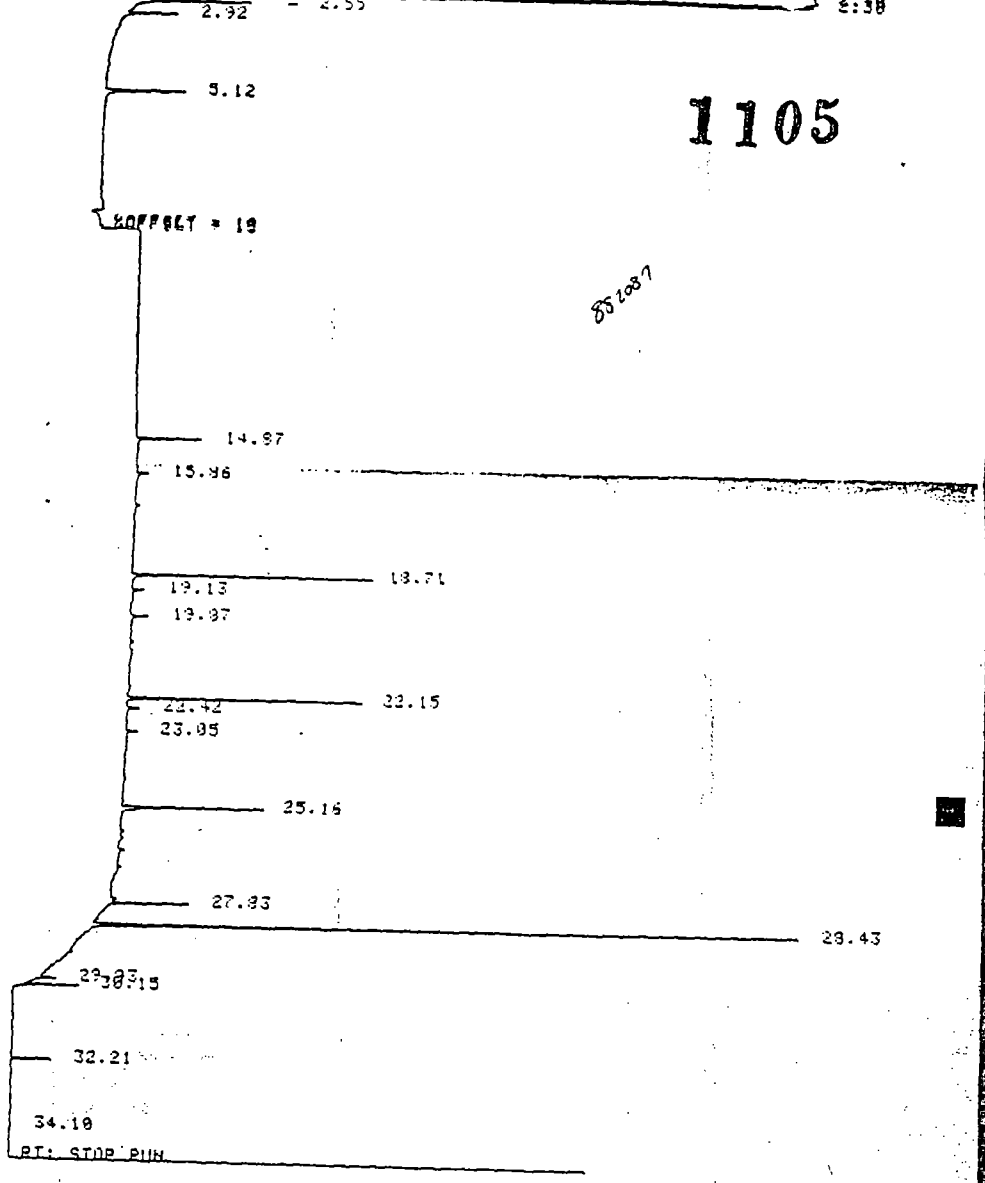
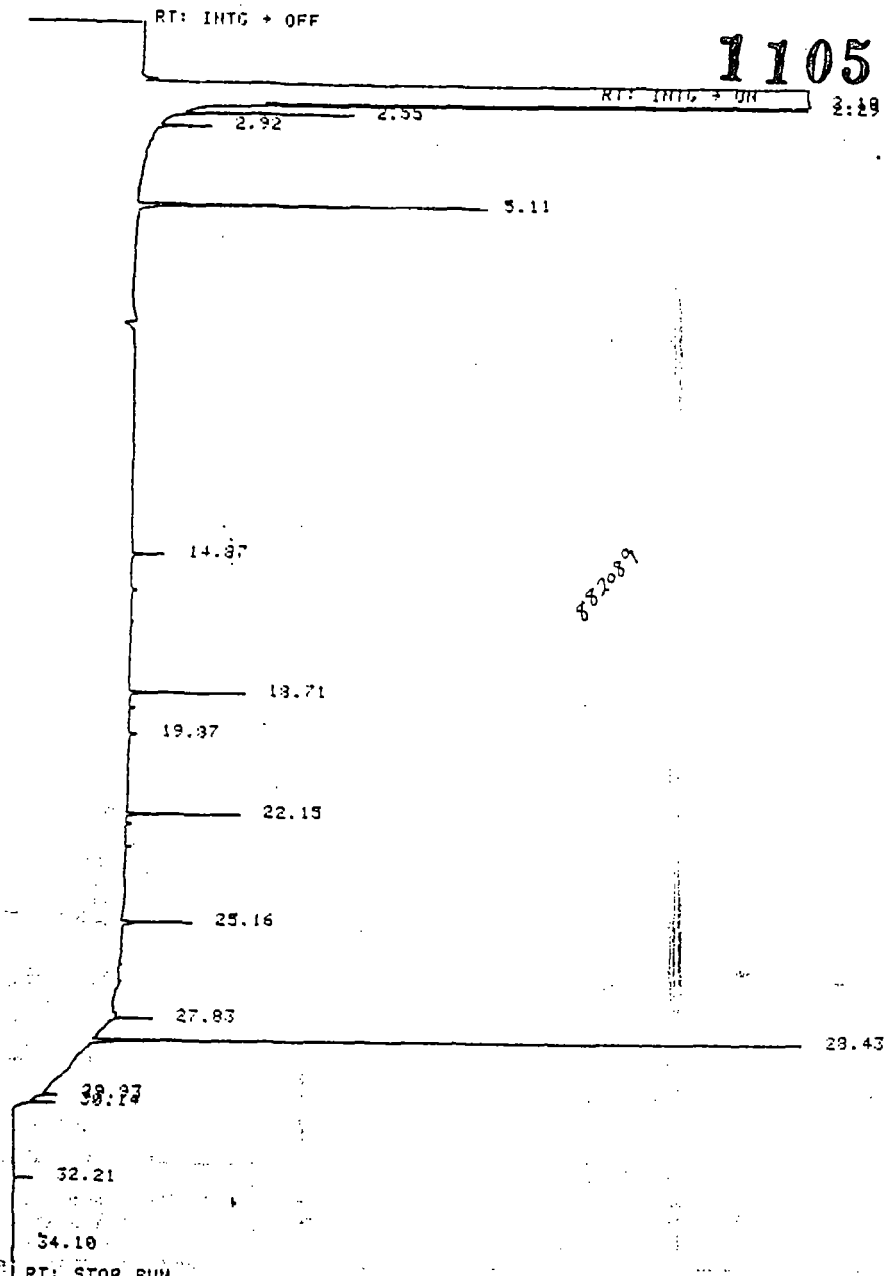


[hp] 5880A SAMPLER INJECTION @ 06:10 APR 15, 1988
SAMPLE # : ID CODE :
18 2087
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
14.87	1.51	BB	5	10.177	GASOLINE 5 } 20%
15.96	0.25	BB	6	7.457	GASOLINE 6 }
25.16	3.23	BB	7	79.019	DIESEL 1
28.43	38.04	BB	10	ISTD 1	PRISTANE
29.93	0.37	BB	11	12.393	DIESEL 4 } 20%
32.21	1.07	BB	13	49.292	DIESEL 6 }
34.10	1.53	BH	14	50.306	DIESEL 7 }

MULTIPLIER = 1
ISTD 1 AMT = 20.13

1105



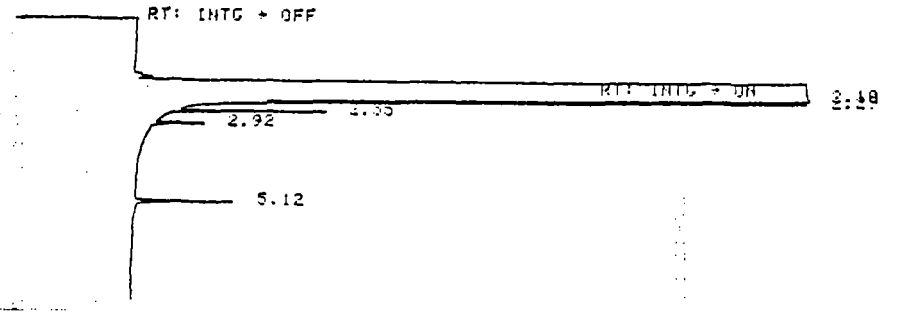
882089

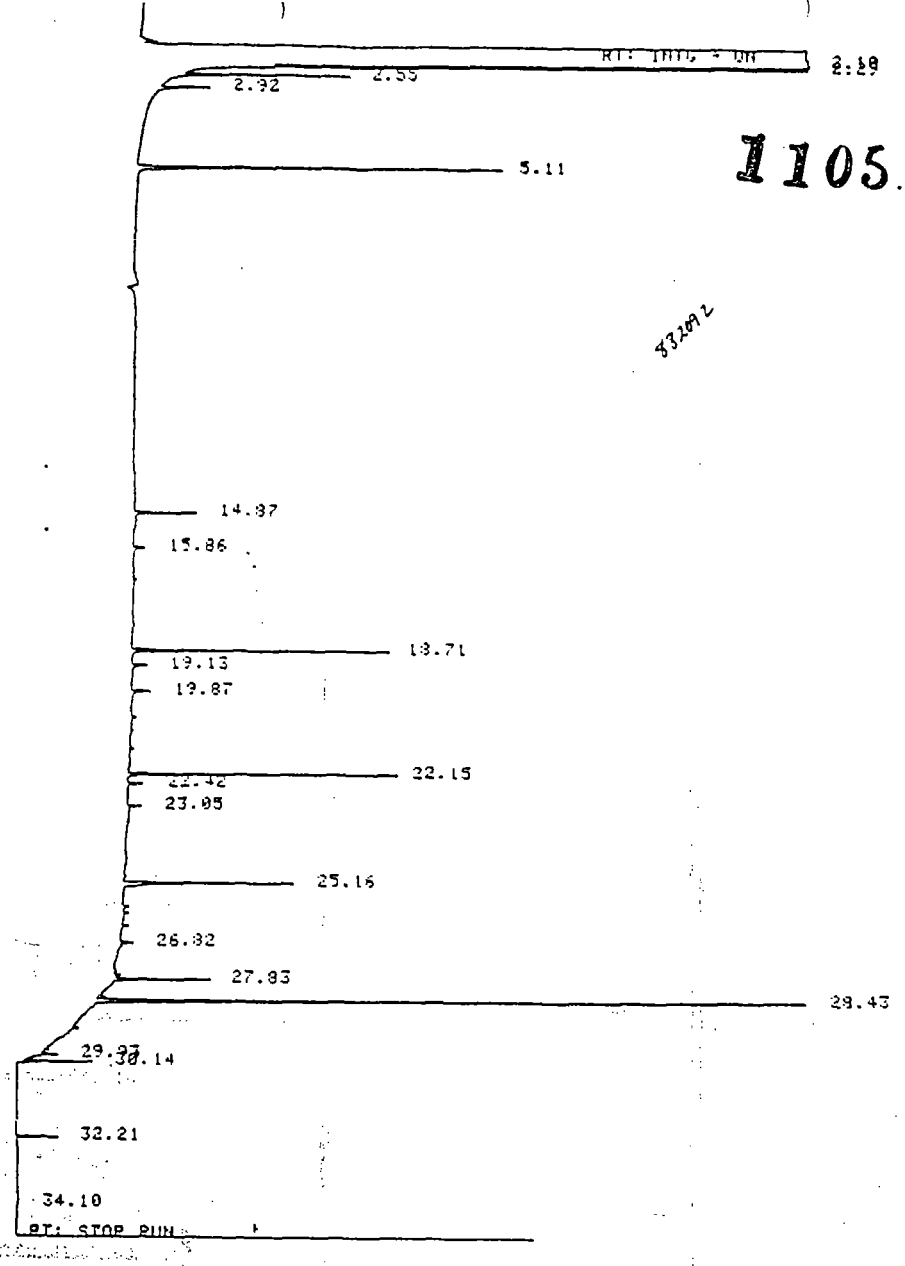
#159

[hp] 5880A SAMPLER INJECTION @ 06:56 APR 15, 1988
SAMPLE # : ID CODE :
19 2089
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
14.87	0.74	BB	5	4.695	GASOLINE 5
18.71	2.50	BB	6	71.266	GASOLINE 6
25.16	1.67	BB	7	38.777	DIESEL 1
28.43	40.23	BB	10	ISTD 1	PRISTANE
29.93	0.38	BB	11	12.307	DIESEL 4
32.21	0.51	BB	13	22.506	DIESEL 6
34.10	0.48	BB	14	14.316	DIESEL 7

MULTIPLIER = 1
ISTD 1 AMT = 20.19





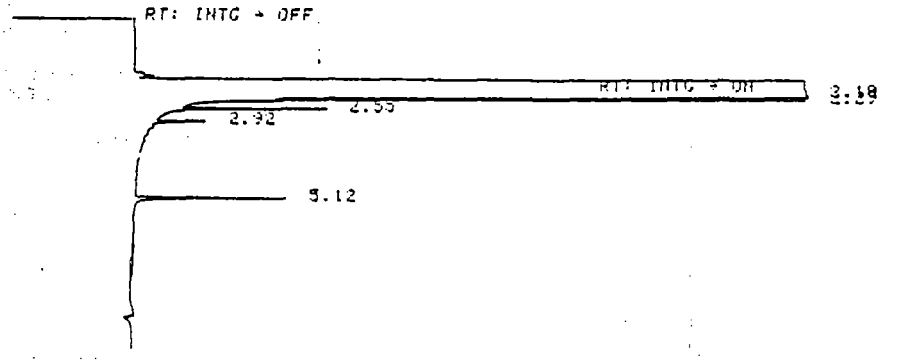
1105.

832092

[hp] 5880A SAMPLER INJECTION @ 08:29 APR 15, 1988
SAMPLE # : ID CODE :
21 2092
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
14.87	1.43	BB	5	9.391	GASOLINE 5 } recip
15.86	0.21	BB	6	6.141	GASOLINE 6 } recip
25.16	3.95	BB	7	94.490	DIESEL 1
26.82	0.25	BB	8	6.747	DIESEL 2
29.43	38.87	PB	10	ISTD 1	PRISTANE
29.93	0.37	BB	11	12.464	DIESEL 4
32.21	1.26	BB	13	56.959	DIESEL 6 } assy
34.10	1.01	BB	14	32.377	DIESEL 7 } assy

MULTIPLIER = 1
ISTD 1 AMT = 20.18



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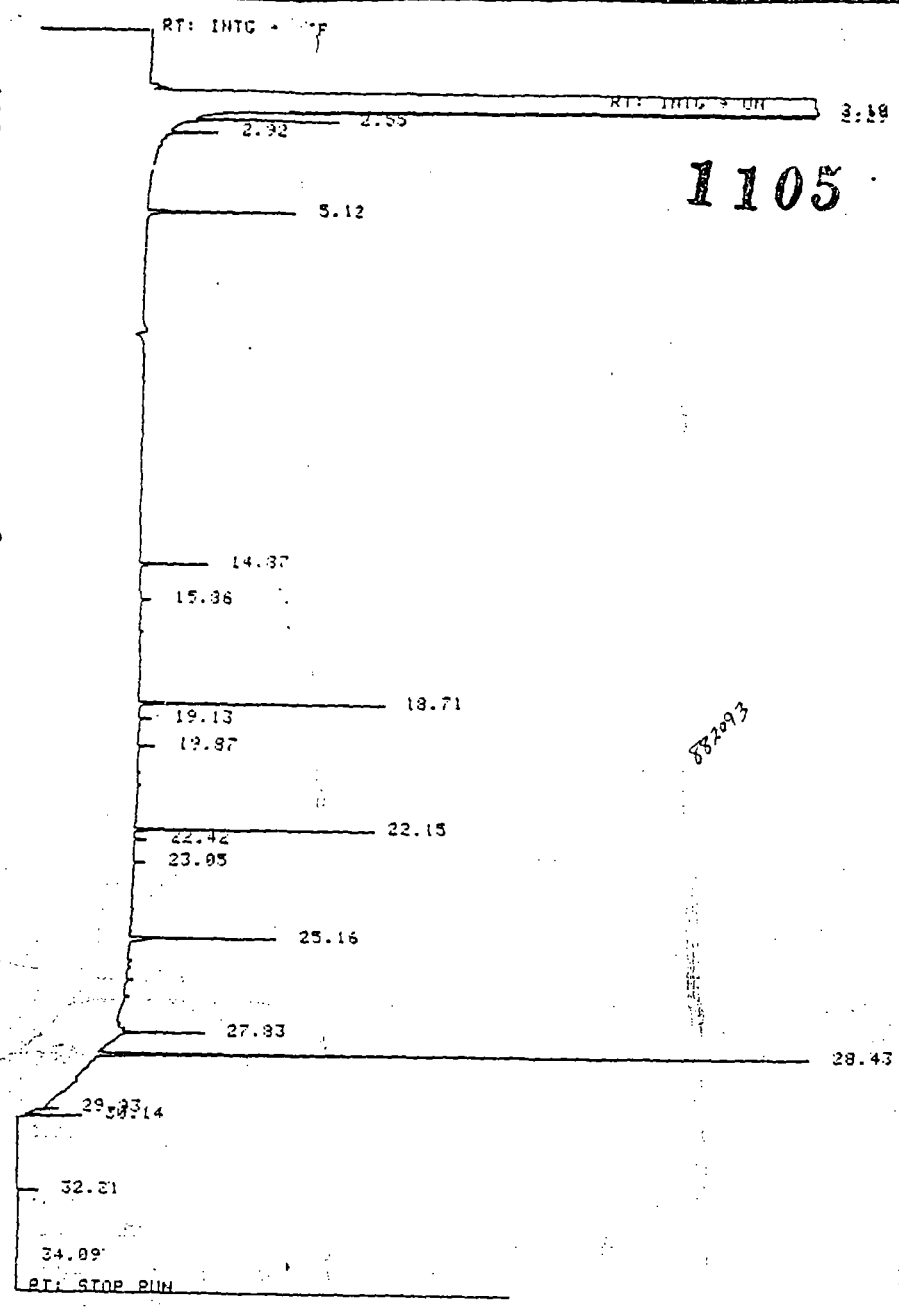


882093

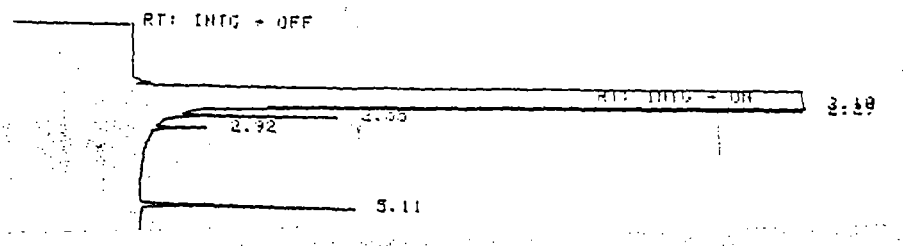
[hp] 5880A SAMPLER INJECTION @ 09:15 APR 15, 1988
SAMPLE # : ID CODE :
22 2093
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
14.37	1.56	BB	5	10.351	GASOLINE 5
15.36	0.22	BB	6	6.611	GASOLINE 6
25.16	3.34	BB	7	80.990	DIESEL 1
28.43	38.43	BB	10	ISTD 1	PRISTANE
29.93	0.41	BB	11	14.226	DIESEL 4
32.21	1.08	BB	13	49.560	DIESEL 6
34.09	0.91	BB	14	29.458	DIESEL 7

MULTIPLIER = 1
ISTD 1 AMT = 20.18

LIST OVEN TEMP
OVEN TEMP=78°C SETPT=40°C LIMIT=290°C

LIST OVEN TEMP
OVEN TEMP=43°C SETPT=40°C LIMIT=290°C



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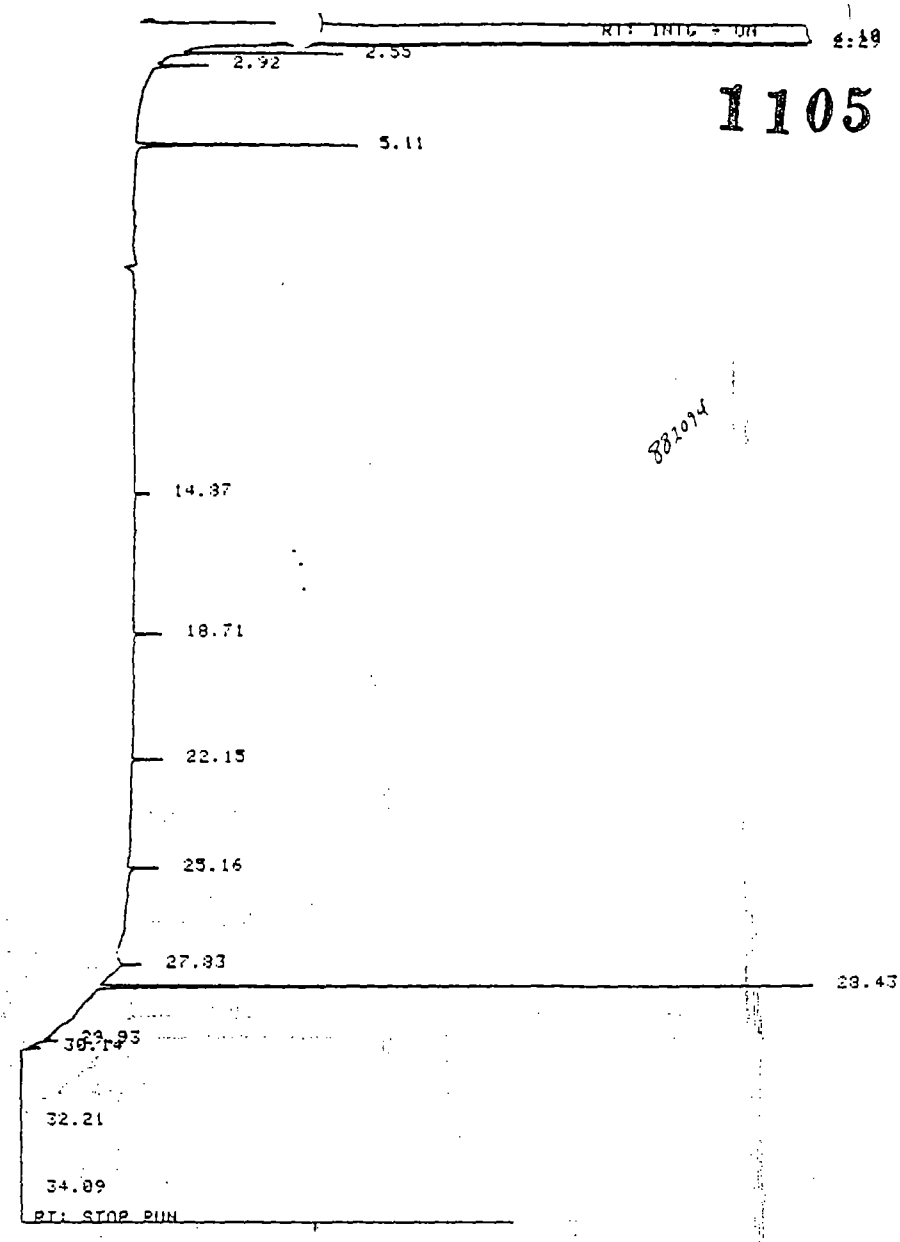
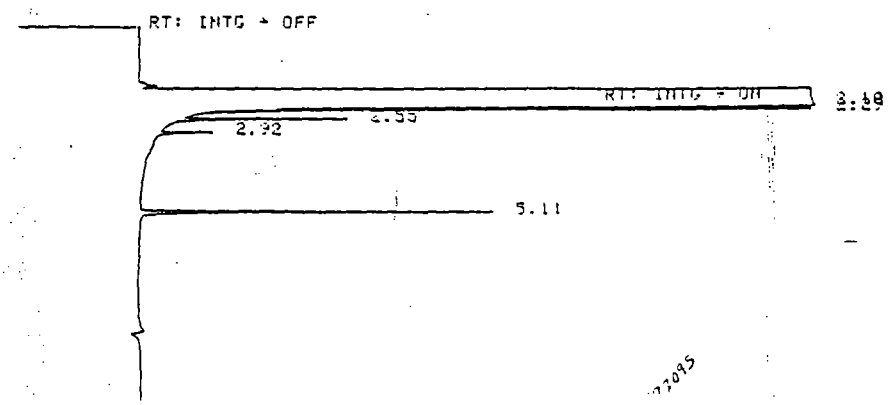
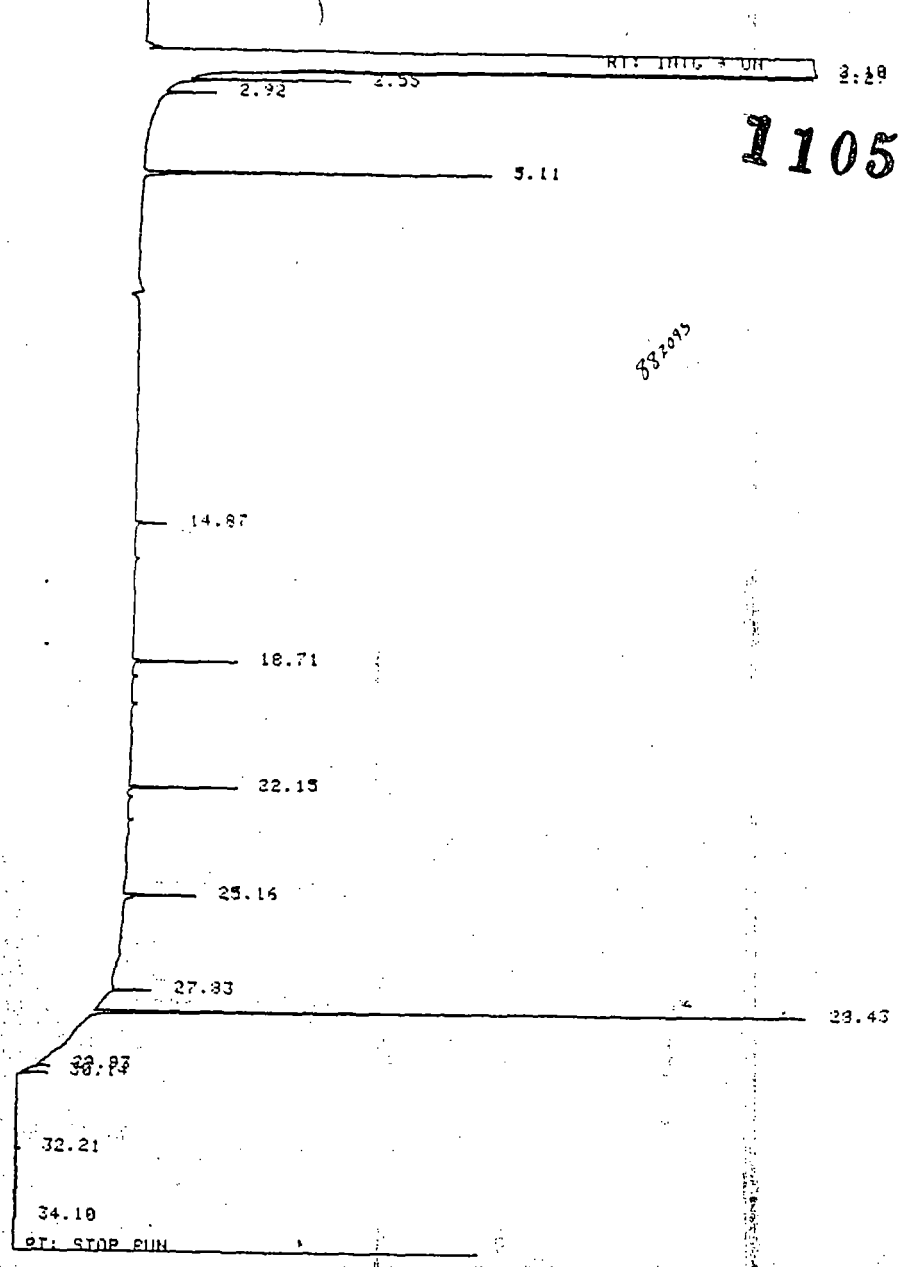


[hp] 5880A SAMPLER INJECTION @ 10:02 APR 15, 1988
SAMPLE # : ID CODE :
23 2094
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
14.87	0.34	BB	5	2.306	GASOLINE 5
18.71	0.58	BB	6	17.596	GASOLINE 6
25.16	0.57	BB	7	13.875	DIESEL 1
28.43	38.15	BB	10	ISTD 1	PRISTANE
29.93	0.34	BB	11	11.931	DIESEL 4
32.21	0.26	BB	13	11.304	DIESEL 6
34.09	0.30	BB	14	9.658	DIESEL 7

MULTIPLIER = 1
ISTD 1 AMT = 20.18





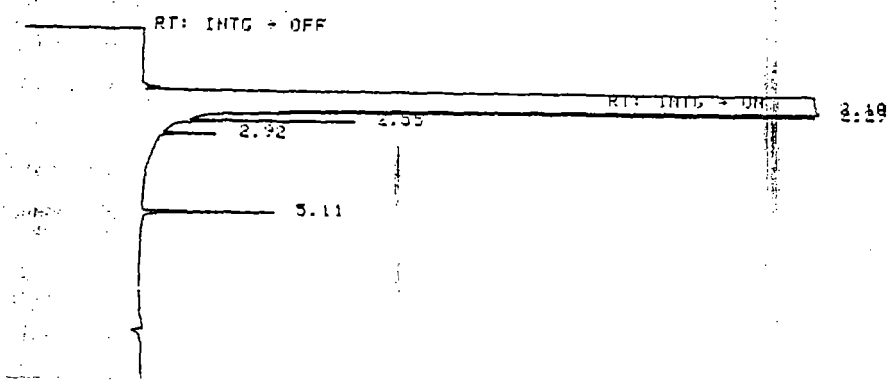
1105

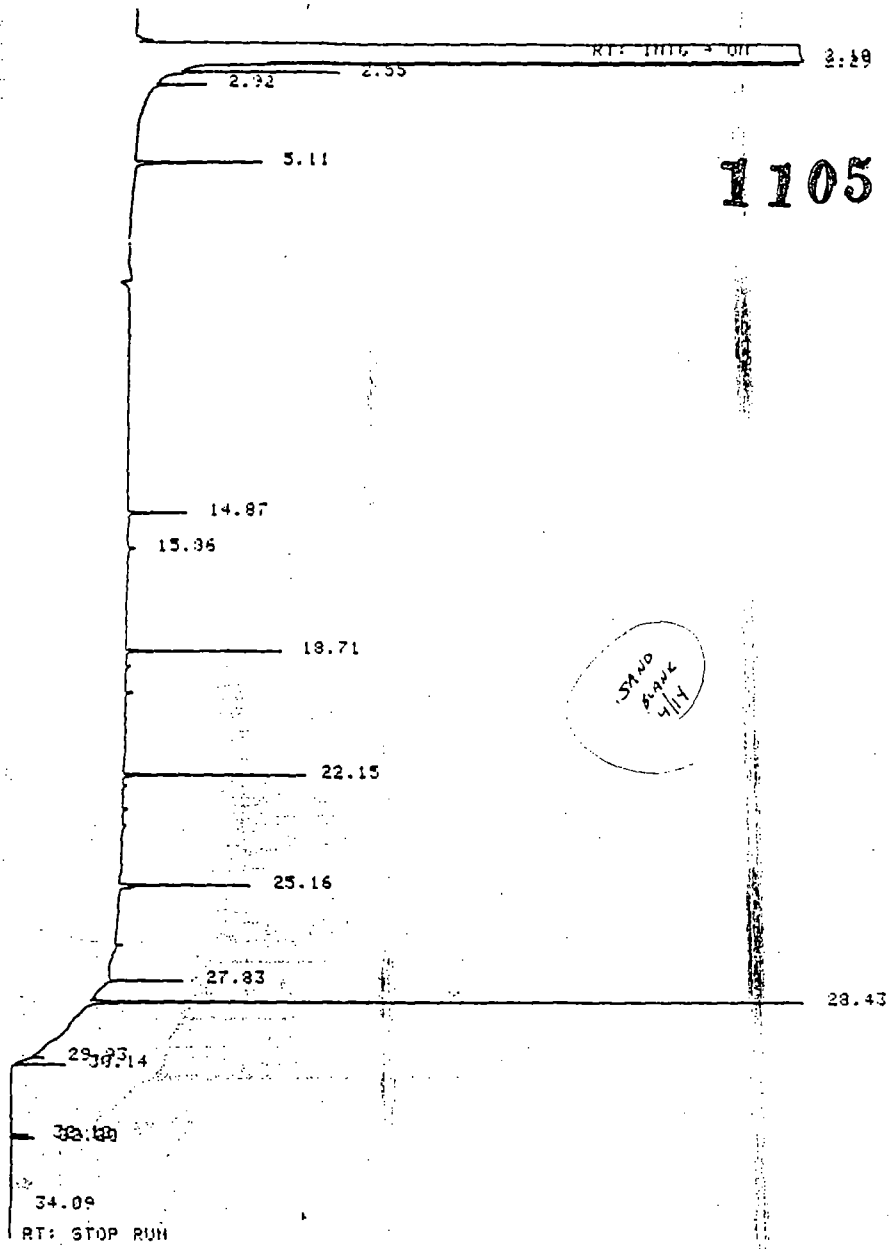
882095

Hp 5880A SAMPLER INJECTION @ 10:48 APR 15, 1988
SAMPLE # : ID CODE :
24 2095
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
14.87	0.70	BB	5	4.639	GASOLINE 5
18.71	2.20	BB	6	65.791	GASOLINE 6
25.16	1.71	BB	7	41.704	DIESEL 1
28.43	38.32	BB	10	ISTD 1	PRISTANE
29.93	0.30	BB	11	10.348	DIESEL 4
32.21	0.53	BB	13	26.566	DIESEL 6
34.10	0.53	BB	14	18.798	DIESEL 7

MULTIPLIER = 1
ISTD 1 AMT = 20.18





1105

SAND BLANK 4/14

Chp I 5880A SAMPLER INJECTION @ 11:34 APR 15, 1988
SAMPLE # : ID CODE :
25 S BLK 4-14
GAS/DIESEL INTERNAL STD METHOD
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
14.87	1.31	BB	5	8.778	GASOLINE 5 } 12.90
15.36	0.15	BB	6	4.452	GASOLINE 6
25.16	2.39	BB	7	70.129	DIESEL 1
28.43	38.27	BB	10	ISTD 1	PRISTANE
29.33	0.33	BB	11	11.341	DIESEL 4
32.20	1.20	VB	13	55.021	DIESEL 6 } 21.90
34.09	1.11	BB	14	36.161	DIESEL 7

MULTIPLIER = 1
ISTD 1 AMT = 20.18

END OF PROGRAM

START AUTO SEQ 26, 26

OVEN TEMP NOT READY

STOP AUTO SEQ

SAMPLE TBL
SAMPLE # : ID CODE :

26 165 PPM JF
EXIT

START AUTO SEQ 26, 26