INSTALLATION RESTORATION PROGRAM (IRP) SITE INVESTIGATION REPORT FOR IRP SITE NO.4

VOLUME II APPENDICES A-C

128th AIR REFUELING WING
WISCONSIN AIR NATIONAL GUARD
GENERAL BILLY MITCHELL FIELD
AIR NATIONAL GUARD BASE
MILWAUKEE, WISCONSIN

MARCH 1996

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	March 1996	Site Investigation Report

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Site Investigation Report for IRP Site No. 4, Wisconsin Air National Guard, 128th Air Refueling Wing, General Billy Mitchell Field, Milwaukee, Wisconsin - Volume II, Appendices A-C

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San Antonio, TX 78229-4253

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9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)
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13. ABSTRACT (Maximum 200 words)

Site Investigation Report for IRP Site No. 4, Wisconsin Air National Guard, 128th Air Refueling Wing, General Billy Mitchell Field, Milwaukee, Wisconsin, Volume I. This is the first volume of a three volume site investigation report. One site (Site 4 - Base Drainage Ditch) was investigated under the Installation Restoration Program. Soil and groundwater samples were collected and analyzed. A Remedial Investigation was recommended to (1) further delineate the impacted soil and groundwater in the southern/southwestern area of the base and the area of Bailey's Pond, (2) determine background conditions for the soil and groundwater in the area, and (3) evaluate potential sources of contamination in the soils near Buildings 107 and 108.

14. SUBJECT TERMS
Installation Restoration Program; Comprehensive Environmental Response, Compensation and Liability Act (CERCLA); Air National Guard; Site Investigation, Wisconsin Air National Guard; Milwaukee, Wisconsin

15. NUMBER OF PAGES
134

16. PRICE CODE

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VOLUME II APPENDICES A-C

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WISCONSIN AIR NATIONAL GUARD
GENERAL BILLY MITCHELL FIELD
AIR NATIONAL GUARD BASE
MILWAUKEE, WISCONSIN

MARCH 1996

Prepared For

HQ ANG/CEVR
ANDREWS AFB, MARYLAND

Prepared By

Operational Technologies Corporation
4100 N.W. Loop 410, Suite 230
San Antonio, Texas 78229-4253
(210) 731-0000

1315-139

APPENDIX A

SURVEY REPORT

AND

FIELD NOTES

N.W. COR OF
SEC. 34-7-22
N 351,418.17
E 2,564,932.84
ELEV. 667.56

NORTH LINE OF THE NORTHWEST
TOWN 7 NORTH, RANG

127

108

107

117

113

112

109

114

128

116

4 OF SECTION 34
22 EAST

N88°54'27"E
2655.78'

PS001	351,512	2,565,818	664.1	PS026	349,347	2,565,800	673.6
PS002	351,434	2,565,909	664.0	PS027	349,425	2,565,507	673.4
PS003	351,411	2,565,878	664.1	PS028	349,398	2,565,436	673.0
PS004			NEVER FOUND	PS029	349,540	2,565,903	673.7
PS005	351,604	2,565,909	663.5	PS030	349,628	2,565,823	672.4
PS006	351,508	2,565,642	664.7	PS031	349,608	2,565,498	673.4
PS007	351,333	2,565,311	667.2	PS032	349,716	2,565,520	673.1
PS008	351,218	2,565,176	667.8	PS033	349,866	2,565,568	672.0
PS009	351,074	2,565,139	667.9	PS034	349,819	2,565,283	673.0
PS010	350,991	2,565,135	668.5	PS035	349,976	2,565,691	670.5
PS011	350,828	2,565,118	668.8	PS036	350,012	2,565,248	668.3
PS012	350,426	2,565,057	669.8	PS037	350,098	2,565,739	671.3
PS013	350,219	2,565,047	671.1	PS038	350,078	2,565,960	673.8
PS014	350,000	2,565,058	670.0				
PS015	349,855	2,565,011	668.3				
PS016	349,743	2,565,026	668.5				
PS017	349,675	2,565,143	672.0				
PS018	349,467	2,565,018	671.1				
PS019	349,370	2,565,173	669.3				
PS020	349,379	2,565,065	670.4				
PS021	349,328	2,565,429	672.5				
PS022	349,349	2,565,509	674.0				
PS023	349,295	2,565,635	673.9				
PS024	349,327	2,565,742	671.2				
PS025	349,310	2,565,958	675.3				

MONITORING WELLS

	NORTHING	EASTING	GROUND ELEV.	CASING ELEV.	TUBE ELEV.
WELL 1	349,360.58	2,565,014.59	672.7	675.17	675.55
WELL 2	351,021.71	2,565,092.39	670.8	672.23	672.25
WELL 3	350,030.75	2,565,159.91	670.6	673.64	673.61
WELL 4	349,314.81	2,565,491.10	673.56	675.96	676.19
WELL 5	349,530.49	2,565,905.45	673.8	676.20	676.43

PIEZOMETERS

	NORTHING	EASTING	GROUND ELEV.	TUBE ELEV.
PZ1	351,157.94	2,566,059.44	670.72	MISSING
PZ2	351,113.33	2,565,104.87	669.59	670.60
PZ3	349,626.82	2,564,985.67	670.66	670.93
PZ4	349, 206.19	2,565,946.96	670.93	672.29

SCALE 1" = 150'

COORDINATES ARE BASED ON THE
WISCONSIN STATE PLANE COORDINATE SYSTEM
AT GROUND LEVEL

349,347	2,565,800	673.6
349,425	2,565,507	673.4
349,398	2,565,436	673.0
349,540	2,565,903	673.7
349,628	2,565,823	672.4
349,608	2,565,498	673.4
349,716	2,565,520	673.1
349,866	2,565,568	672.0
349,819	2,565,283	673.0
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4	349,314.81	2,565,491.10	673.56	675.96	676.19
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349,206.19	2,565,948.96	670.93	672.29

PROJECT

SOIL BORINGS
MONITOR WELL LOCATION
BILLY MITCHELL FIELD
1723 W. GRANGE AVE.
MILWAUKEE, WI

PROJECT NO.

94546

DATE

NOVEMBER 3, 1994

REVISIONS

1-18-95, CORRD'S & LOCATION FOR WELL NO. 4
1-27-95, PIEZOMETER LOCATIONS AND ELEVATIONS
2-16-95 COORD'S

ENGINEER / SURVEYOR

MATTHEW E. WEST
NIENOW ENGINEERING ASSOC. INC
(414) 963-4022

PREPARED FOR

OPERATIONAL TECHNOLOGIES CORP.
4100 N.W. LOOP 410 SUITE 230
SAN ANTONIO, TX 78229-4253
(210)731-0000

DRAWN BY

CLW

CHECKED BY

MEW

SCALE

1" = 150'

SHEET TITLE

BILLY MITCHELL FIELD
1723 E. GRANGE
MILWAUKEE, WI

SHEET NO.

1 OF 1

349.425	2,565,507	[illegible]
349.398	2,565,436	673.0
349.540	2,565,903	673.7
349.628	2,565,823	672.4
349.602	2,565,498	673.4
349.716	2,565,520	673.1
349.866	2,565,568	672.0
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	349, 206.19	2,565,948.96	670.93	672.29

SCALE N 1" = 150'

TEM

~ LEGEND ~

- DENOTES MONITORING WELL
- DENOTES SOIL BORINGS

[illegible]

DVH 9-15-16

[illegible]

ENGINEER / SURVEYOR

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DRAWN BY

CLW

CHECKED BY

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SCALE

1" = 150'

SHEET TITLE

BILLY MITCHELL FIELD
1723 E. GRANGE
MILWAUKEE, WI

SHEET NO.

1 OF 1

Nienow
ENGINEERING
ASSOCIATES, INC

5555 N. PORT WASHINGTON ROAD
MILWAUKEE WI 53217
PHONE (414) 963-4022
FAX (414) 963-4028

LT. Rob A. Huelsman
(414) 747-4186
128th Air Refueling Group
1723 E. Grange Ave
Milwaukee, WI
53207-6449

TARGET:
Charley Thompson
(410) 992-6622
Beeper (410) 407-5090

M. Graig Hawkins

Brian Niskey

17 OCT 94

0900 Met at SA airport and traveled to Milwaukee

0300 Arrived at The Grand Milwaukee Hotel

1800 Located 128th Wisconsin ANGB.

1900 Dinner

2130 Went to Milwaukee Airport to pick up John Morris

2230 END OF DAY

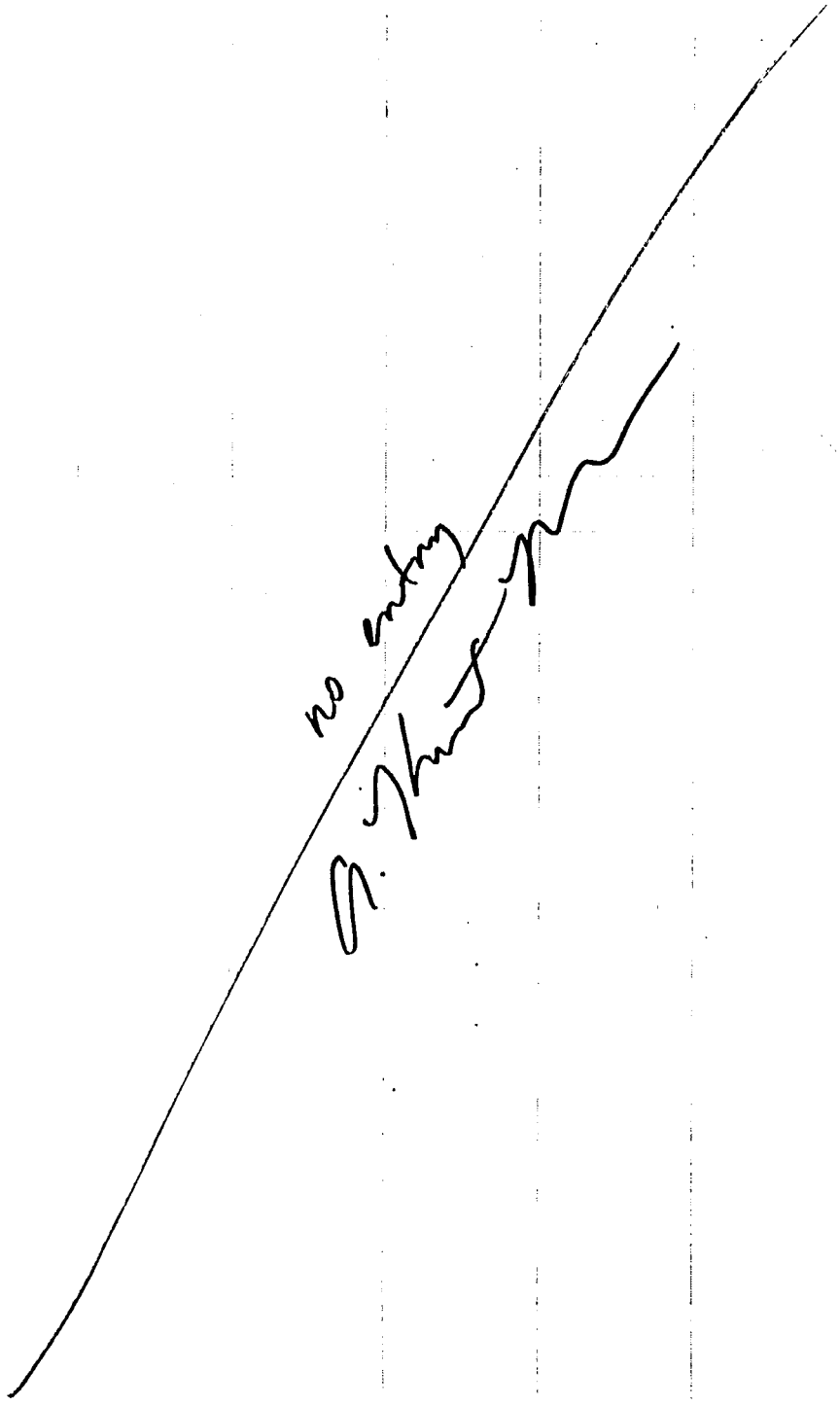
A. K. Hu

no entry

18 OCT 94

0715 Met for 1st day scheduling.
John M, Mark E, Rubin P
Kathleen. Discussed schedule,
subcontractor arrival,
supplies

0830 Met w/ Lt. Robert Huelsman
discussed utilities,
sample locations, Diggers
Hotline 800 242-8511,
Base CE Maj. Steve Ford
Asst. CE Cap. Cindy Wickman
(414) 747-4425
Ruth Lodoler to arrive
this afternoon
Weston rep (AMOCO) to
arrive this afternoon
Additional Contacts on base
Lisa Broderick
Chet Ignasik



Need clearance from Rob Huelsman for access of ramp. (Need clearance from base commander)

WDNR contact: Margaret Garef

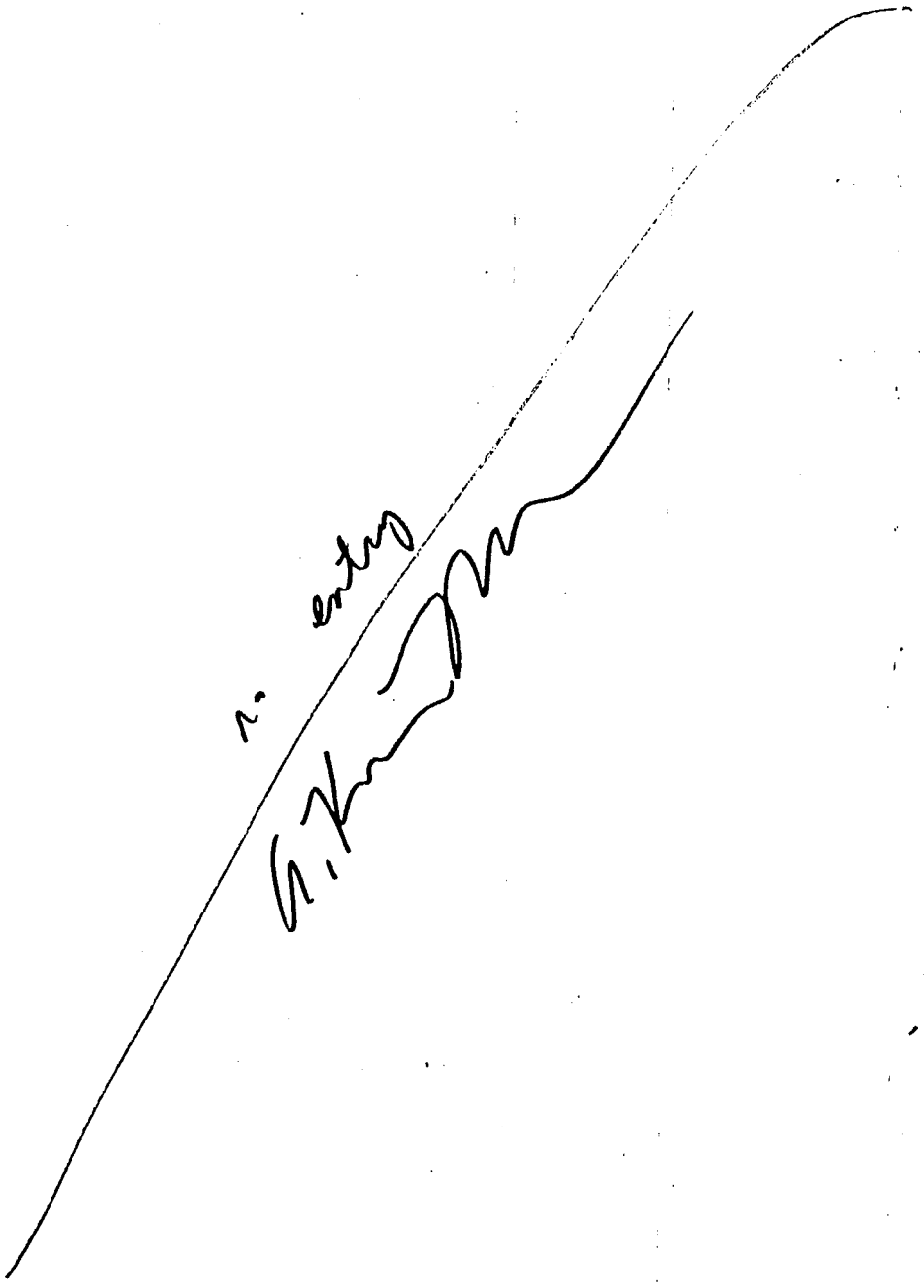
Drum Locations in Haz Waste Shed, if full next to shed under a tarp

Thurs. Air Emission Rep from WDNR

0950 Met at CE Office w/ Capt. Wickman

04-002PS } Locations in
04-003PS } Water main
04-001PS } Do these in
04-004PS } Current channel

This represents old channel, not like current



- Mark map of sample locations to give to CE on large maps

Contact AP rep. to let know that we will be on flightline Tom

1030 Toured site w/ Rob Huelsman

1130 Lunch

1230 Returned to Hotel - mapped out locations on large base map

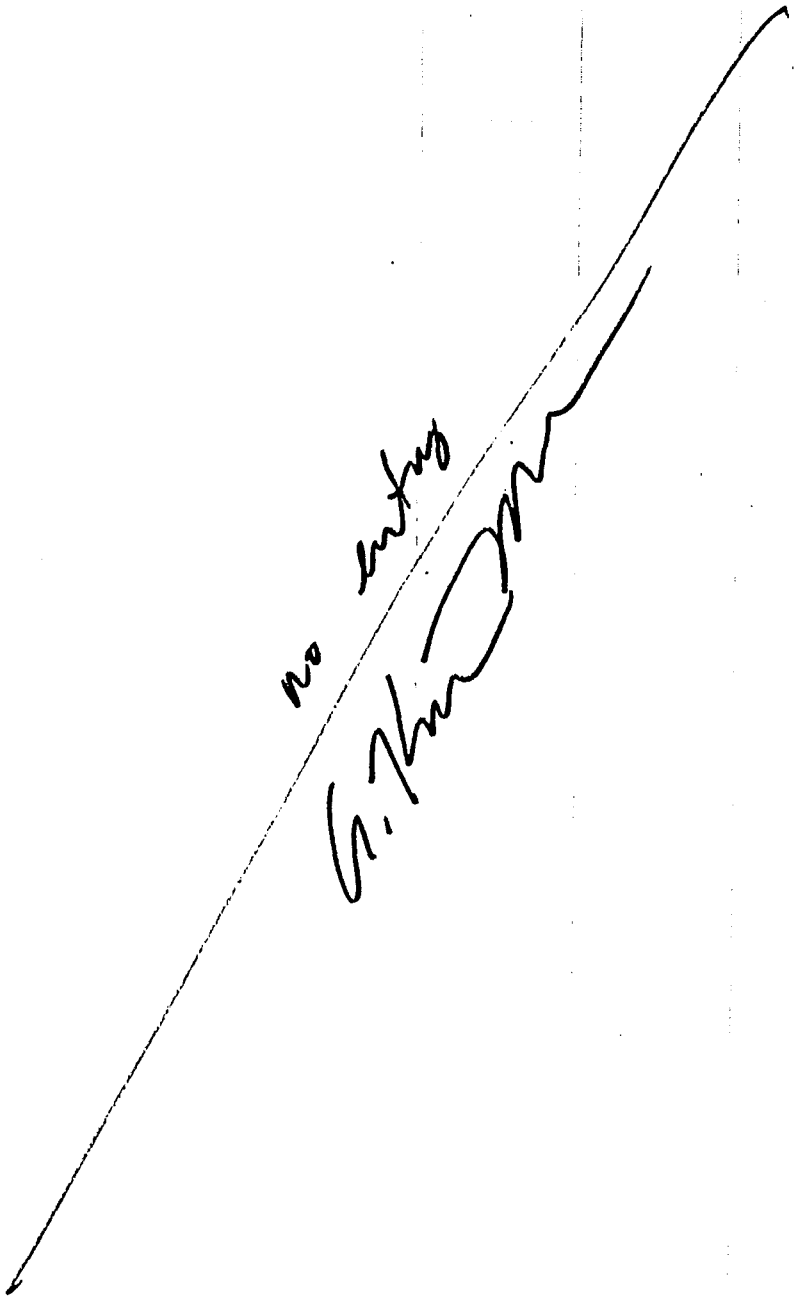
1400 Met w/ RH & Ruth Lodder

1430 ~~Beg~~ Conducted site tour w/ RH, Ruth & Curtis Michols (R.F. Weston rep for Amoco). All soil locations staked during tour

1700 Finished staking soil locations

END OF DAY

no entry



19 OCT 94

0700 Met in Hotel Resturant for team meeting

0730 Target = reps arrived
Craig Hawkins
Brian Niskey

0800 Discussed decon and site history w/ Target

0900 Made phone calls, etc

0000 Org. sampling bottles. (Waiting for Target to track down supplies)

LAB QUESTIONS:
- Soils, 8020, 8310 (PS) 7000 why container for soil when we are sending brass sleeves

1200 Lunch

no entry

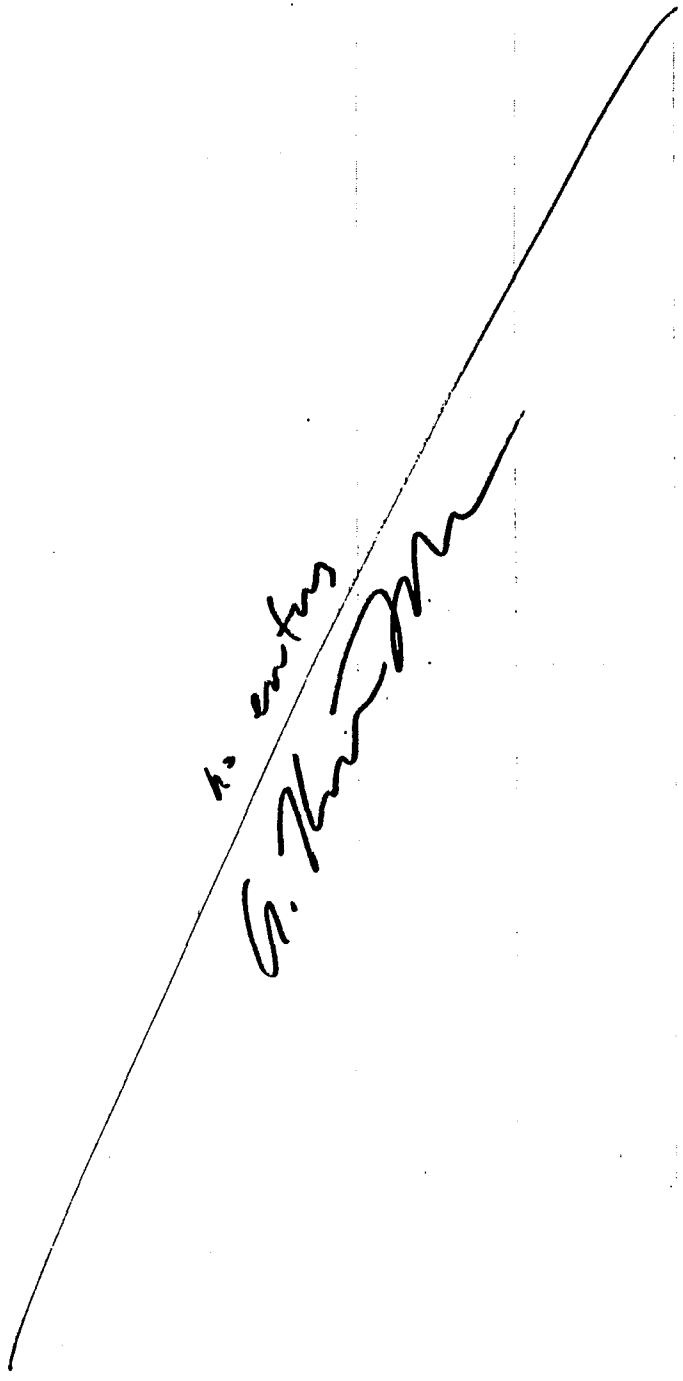
1330 Arrived at base w/ Target to Stake piezometer locations, and to give map to Capt. Wickman.

1545 Finished staking location

1630 Showed Target where to set up decon pad and discussed decon procedures

1700 Decided to start probe pts in the morning so that Target could verify all supplies

END OF DAY



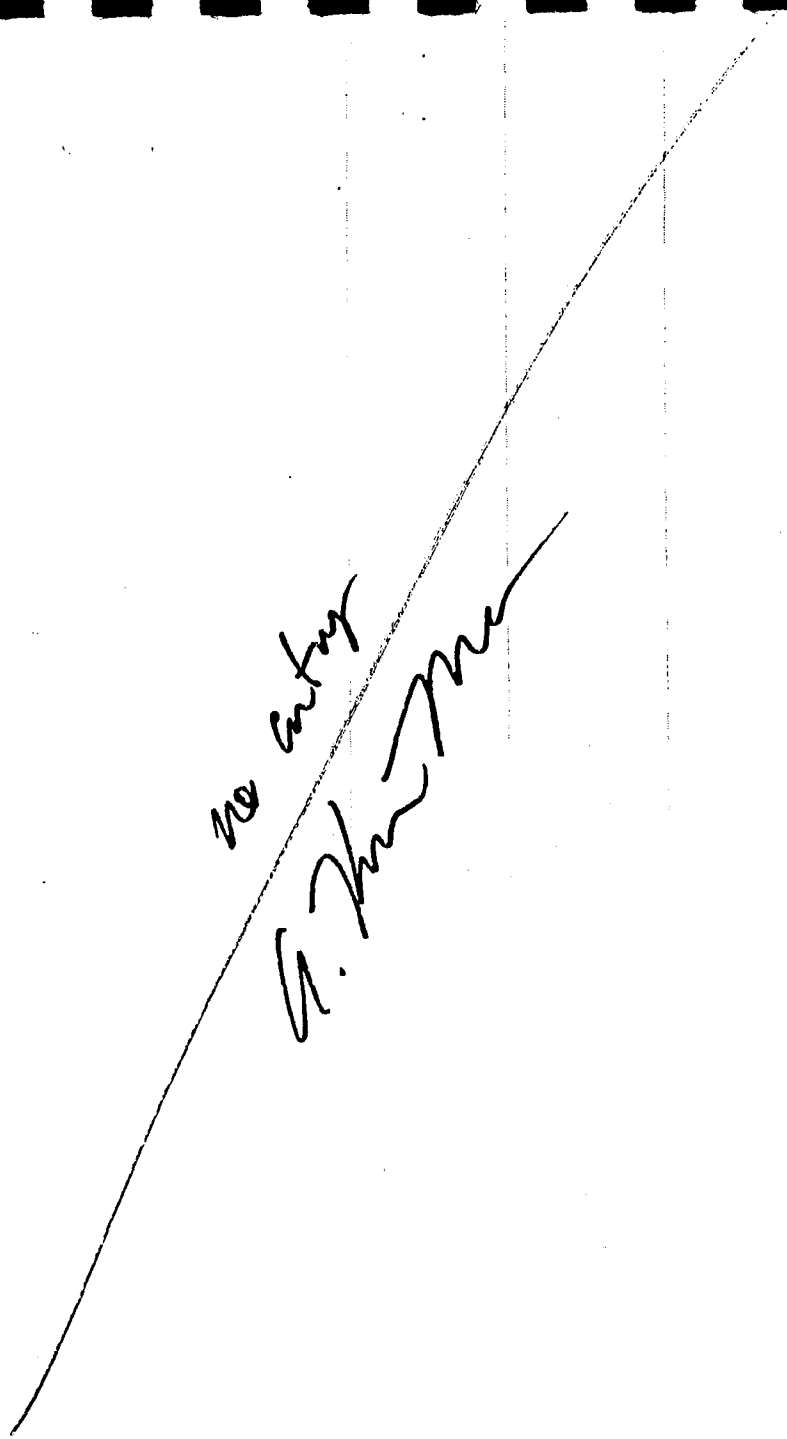
20 OCT 94

0630 Hotel breakfast

Info to be logged:

- ID #
- Strat operator & geo
- Date, method of installing
- Hole size
- Reference for all depth measures
- soil description, including moisture
- depth to distinct stratum
- sampling method & depth
- depth to GW
- PID reading
- Hole location & elevation
- TD
-

Weather cloudy, cold, breezy
temp in low-mid
50's in AM.



0715 Arrived on site
Target's generator ~~does~~ ~~wont~~ not operatating properly.

0730 Crave H&S briefing

0930 Calibrated PID, orgainzed sampling equipment

0930 Steam cleaner has a problem w/ pressure.

0945 Began deconing drive rods, after fixing steam cleaner

0000 Deconed strata probe

1115 Tested PID w/ marker
Ambient air prior to probing PID = 0.0

1½" holesize

04-003 PS

Craig Mawing Strat
Kathleen Merino bed

0-1 PID = ~~43~~ 13.1 (am) 80. (am) 139.4 ppm

(PID continued to rise for 30s-60s)

Amb PID at hole = 16.6 Breathzone

1-3 PID = 138 ppm ✓

0-1 Clay, w/silt (Mostly ? = 50-100%) lots of organics, dark brown to black. Slightly moist. (OK)

1-3 same as above

Amb PID = 8.9 ppm ✓

5-7 PID = 28.3 ppm

clay, brown, wet

APID (0-~~1~~ (am)) = 196 ppm

Amb PID = 0.3 ppm Breath zone

APID (1-3) = 26.1

Collected H_2O sample

1345 LUNCH

04-002 PS

0-1 PID = 0.0

clay, organics w/ roots, moist dark grey to black

1-3 PID = 0.0

Amb PID = 0.0 Breathing zone (BZ)

5-7 clay w/sand, black, very moist P = 1.8

Amb PID = 0.0 BZ

Water encountered ~6' BLS

04-002 PS

1545 Hole collapsed preventing bailer or jiggle tube from obtaining a water sample. Since both methods failed, an alternate method was ~~planned to be used~~. Next to hole ~~drill~~ push hole, ~~leave~~ back off 2' leaving 21 feet of space between Total depth and the last pipe. Then to bail for gw.

1645 This method still produced too much sediment to produce enough water for sample.

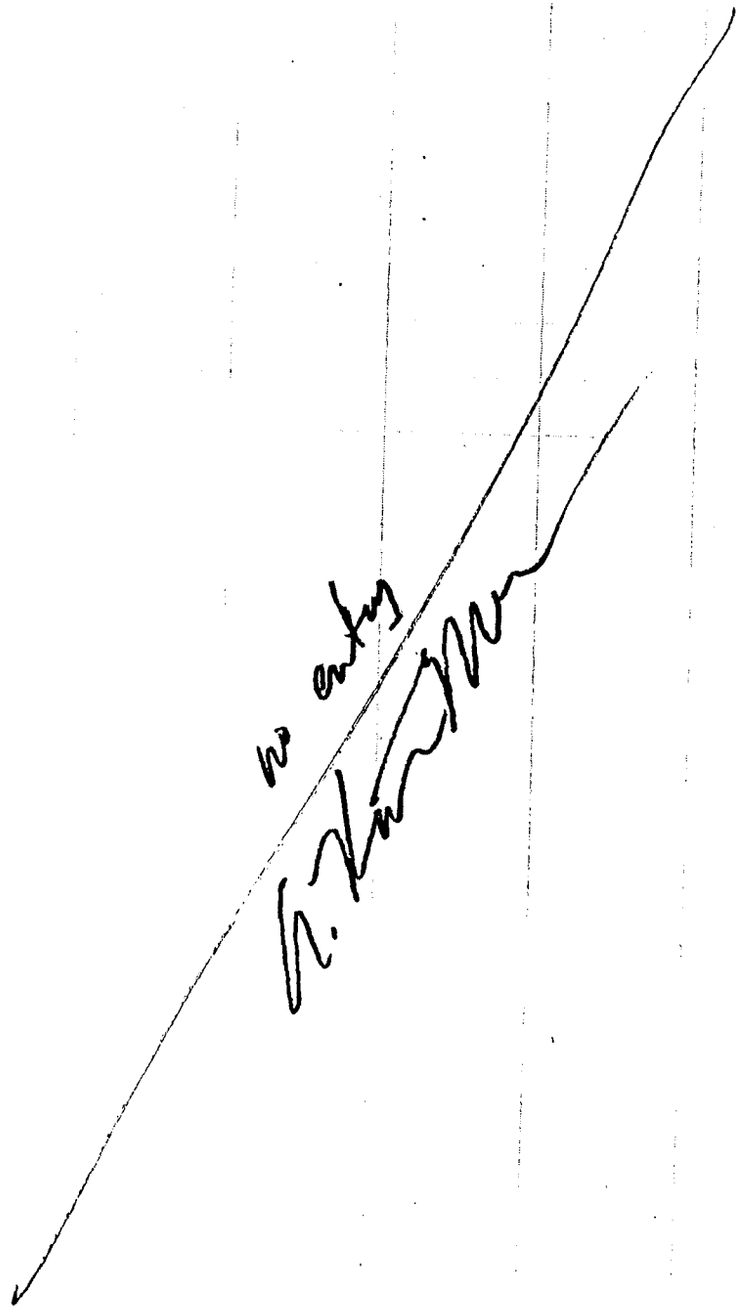
1650 A New alternated method will be tryed. Piezometer screen will be lowered into the hole, a no additionally cost from Target. 5' section will be used to prevent sediment from ~~goo~~ coming into the hole.

1715 Left screen in hole ~~to~~ allow setting of sediments overnight.

1720 Began cleaning up site

1750 Trip blanks were left in clinic, so samples will go to Fed EX 1ST tomorrow

END OF DAY



21 OCT 94

(17)

~~Dis~~

0600 Met for breakfast to discuss days events.

0700 Arrived at site, observe probe decon. Began site prep

0745 Discussed QA/QC samples w/ Bill Hedberg & Ruth Lodder. Agreed to split the #1 of field blanks between potable water & deionized water

Dan Waltz 5% QA/QC samples
- Equipment
ask told by Ruth Lodder

Boat operator: Brian Dibney
Geologist: Ruben Portales
1½" = hole size

0845 Meas. of 04-002 PS from R: 60%
TOC to top of H_2O = 2.62'
Depth to bottom of hole = ~9.5'
(sediment bottom hard to tell actual bottom)

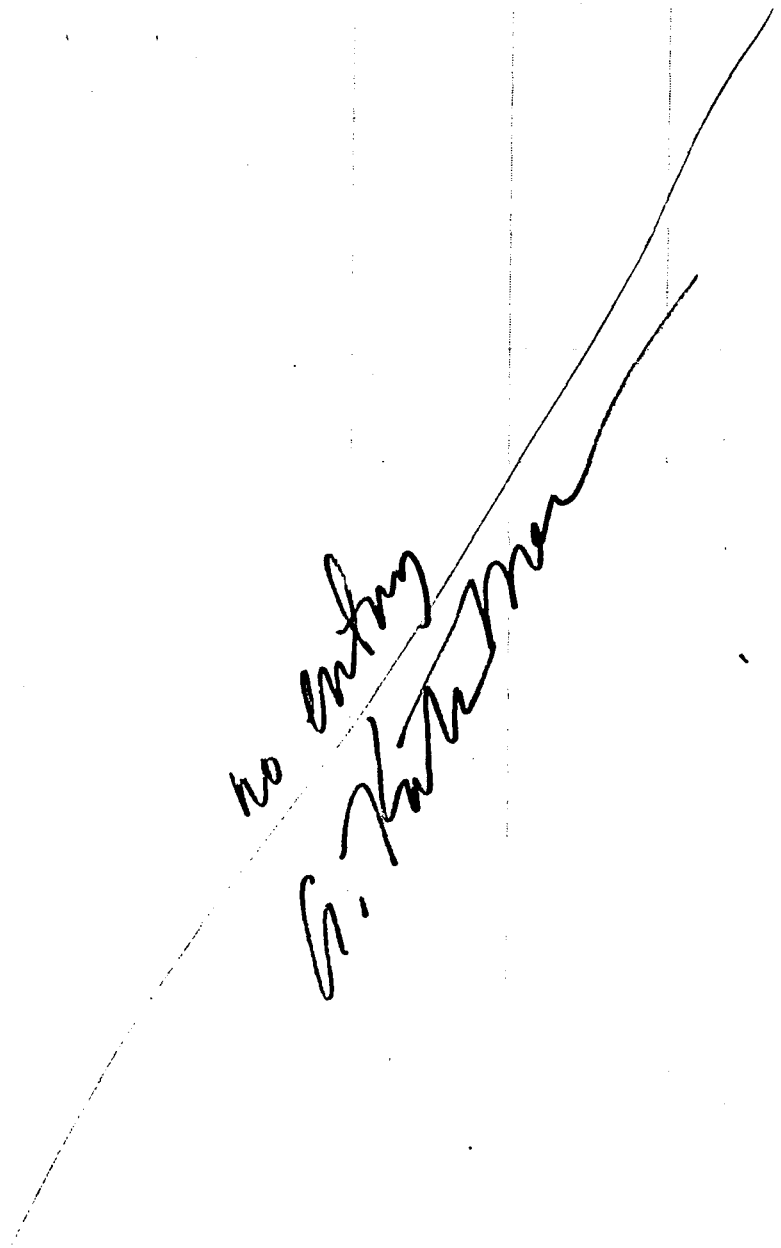
Vol = $2\pi r^2 h$
= 2(.314)(.75")(7') = 0.016 gal

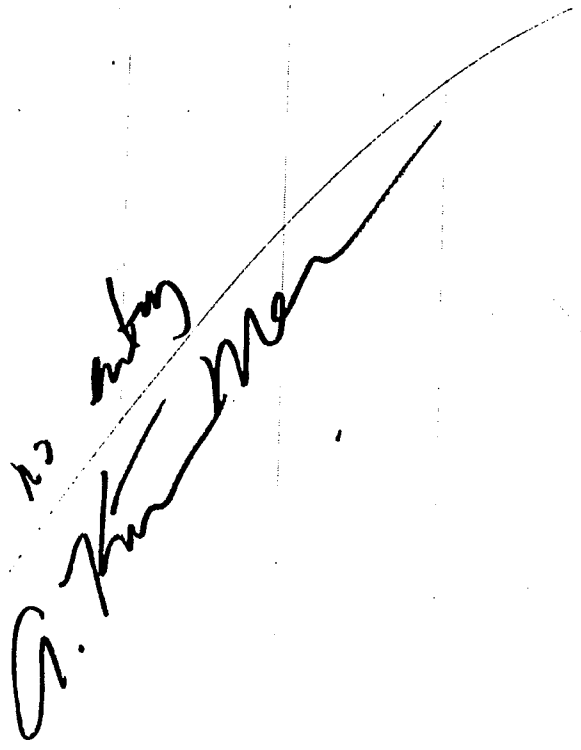
Purged ~1 gal from 04002 PS

0900 Began pushing **04-001 PS**
Amb BZ PID = 0.0
R = 100%

0905
0-1 PID = 0.0
Fill Soil, organic w/roots, black, dry

0915
1-3 PID = 0.0
Clay, light brown, slightly moist, some organics w/ roots





5-7' BZ = 0.0 R= 100%

PID = 0.0

Clay, light brown, slightly moist

1-3 ambient 04-001 PS R= 100%

PID = 0.0

BZ PID = 0.0

1000

Set piezometer in well to try and get H_2O

1015

Collected water sample from 04-002PS

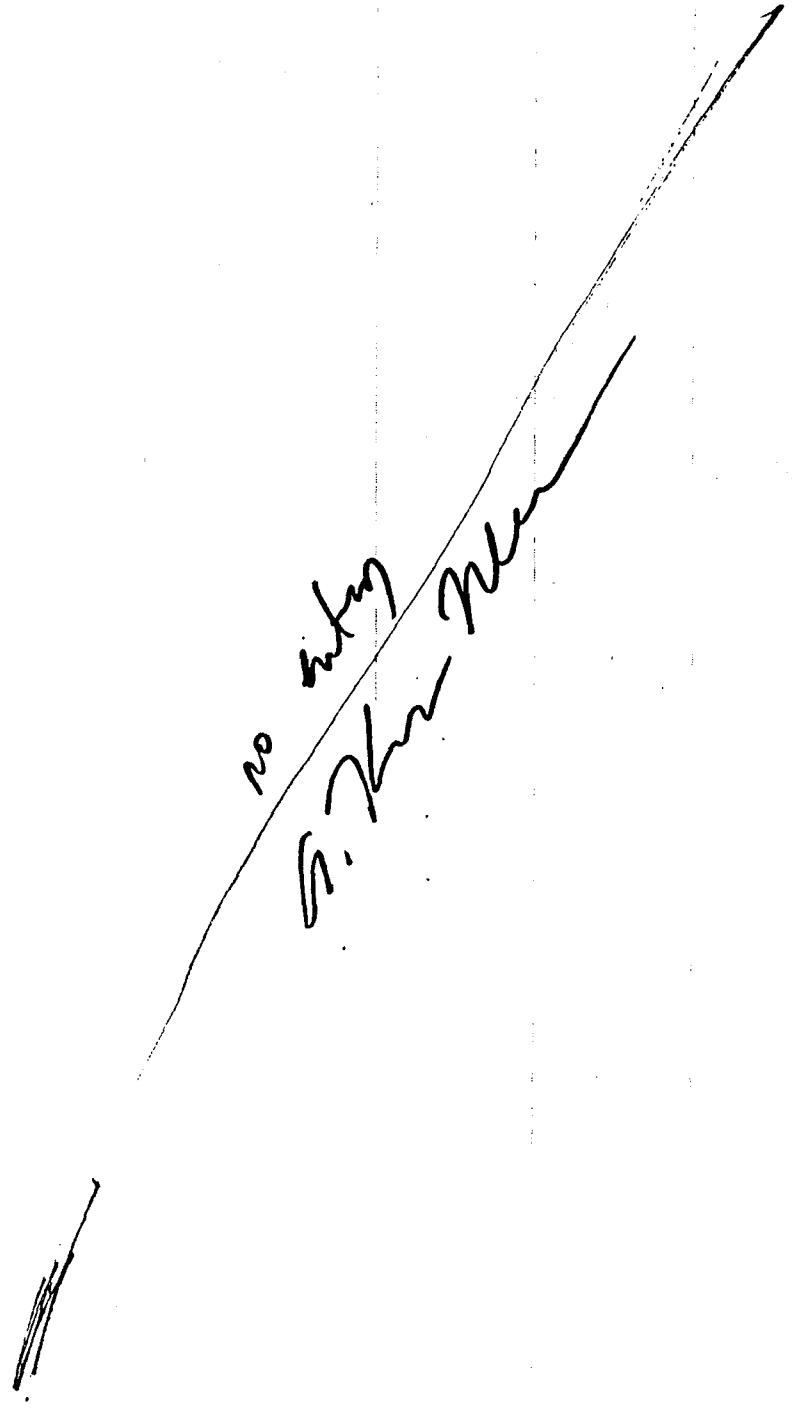
Ambient PID for @ 5-7 = 0.0

04-001-P2 100%

GS → TOC = 2.7'

TOC → Top of H_2O = 6.31

1105 Lunch



1200 Took QA/QC samples

Equip. ~~steamer (potable)~~
bailer
tubing
~~F~~
split spoon
Field Blank. potable (through steamer)
deionized H_2O

04-006 PS 1330

Surface - 1'

0'-1' Fill, organics w/roots, (live worm) sandy soil, brown, slightly moist

1'-3' PID = 0.0 100%

Sandy, silty, soil, dry black some clay

ATHA = 0.0

5'-7' PID = 0.0 100%

Sandy, silty, soil, wet, gray

ATHA = 0.0

no entry

1415 Set piezometer screen in 04-006PS

1440 Depth TOC → water = 4.66'

GS → TOC = 1.5'

04-005PS 1520

PID = 0.0

0-1' fill, clay, organic, slightly moist, w/roots, dark brown

~~ATHA =~~

1'-3' clay, dark brown, w/roots, slightly moist

PID = 0.0 R = 100

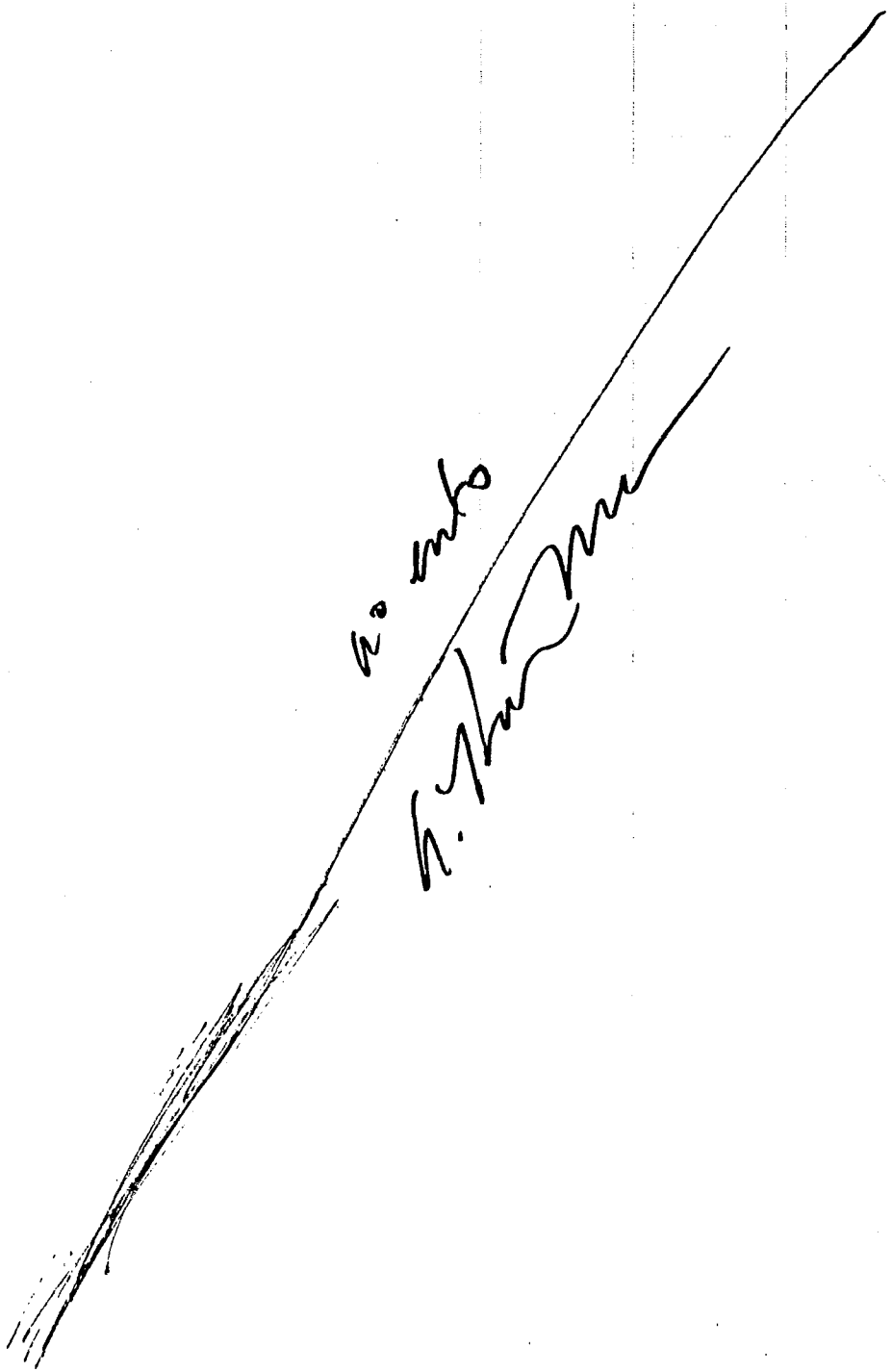
ATHA = 0.0

5'-7' clay, gray, slightly moist R = 100

PID = 0.0

ATHA = 0.0

1610 No water in well piezometer



1620 Began cleaning up.
Preparing Chain of Custody

1800 Drop off samples
at Fedex

Kathleen departed on Sunday,
Oct. 23, 1994 to Utah Site.
I will continue logging on
this log book.

Barbara Petersen

Mon. 10-24-94

Cloudy, breezy, 42° to warm up to 50-52° for high, wind ≅ ~~east~~ west to east direction

Met at Guard Base 0700

Steve Wilson came in yesterday for Kathleen who went to Utah yesterday

Had tailgate briefing

Jeff to meet w/ city util today ≅ 0930 & call John M.

Obtained ice for samples 0730

Returned to ~~Valley's~~ Pond Area 0800

Water sampled 04-001PS 0830

GS — TOC = 2.6'

TOC — Top of Water = 4.6'

~~bottom~~ TOC - bttm H_2O = 9.6'

Moved to ~~east~~ next PS to water sample - 04-005PS

Enroute to 04-005PS - 0905
Strat

Craig pulled Bryan's truck 0930
out

No Entry
Barbara Potter

10-24-94

~~RS-01~~ 04-005PS 0940

GS ~~60~~ → TOC = .7'

TOC → top of H_2O = 3.1'

TOC → bttm of H_2O = 9.3'

collected water samples

Steve went to check 1015
w/Guard if okay to cross
~~taxiway~~ for next punch
hole

04-007PS 1105

0-1' Fill ~~clay~~ roots, black to 1113
lt brown ~~clay~~, dry

1'-3' Clay, brown, little moist
~~to 3~~ to dry

~~5 ppm~~ PID = 0.0 R = 100%
ATHA = 0.0

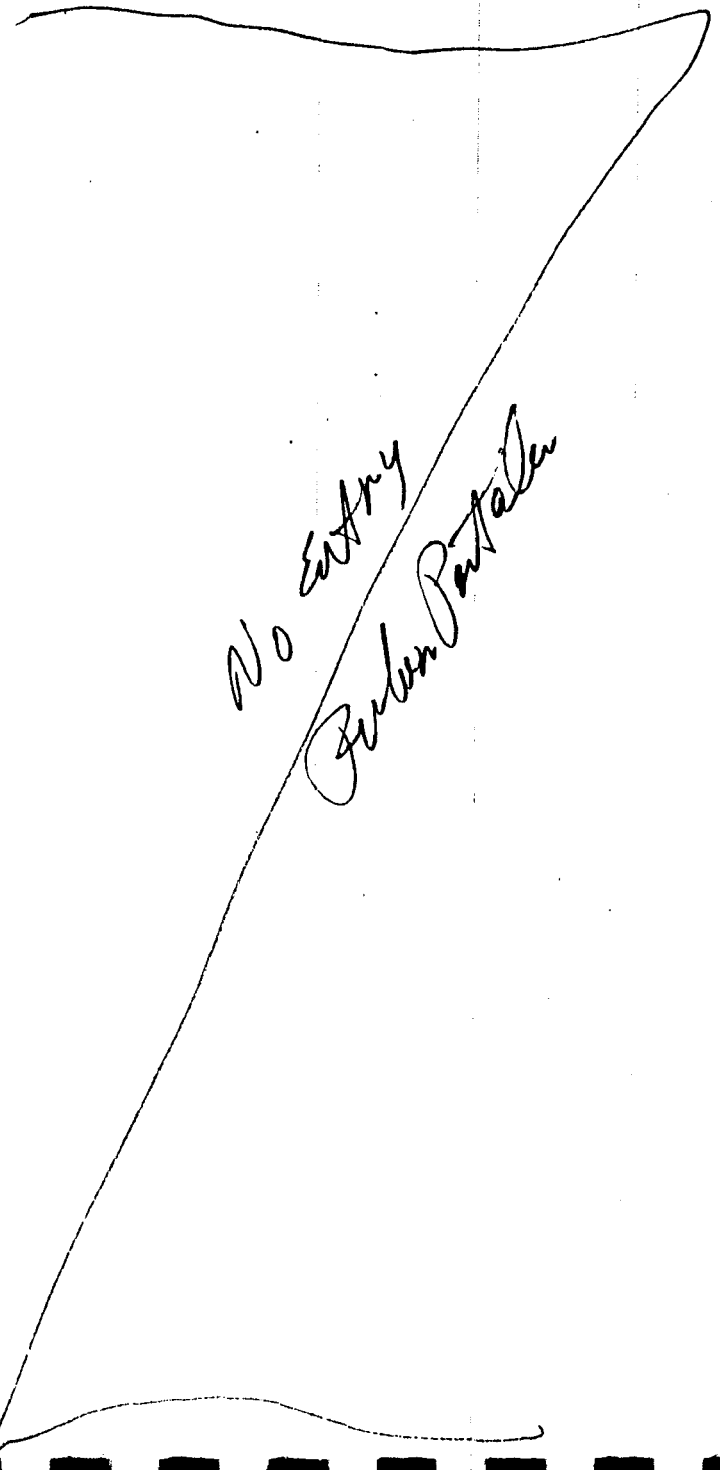
5'-7' Clay, black, slightly moist, 1130
no organics — need to go deeper
PID = 0.0 R = 20%
ATHA = 0.0

7'-9' Clay, black, ~~some~~ little sand, dry? 1145
very little recovery
PID = 0.0 R = 10%
ATHA = 0.0

Gale Costales

No Entry
Gale Costales

10-24-94



Will move over a little to try 1215
get better recovery - go down
to 5'-7'

5'-7' Clay, black, 1220
some ~~little~~ moisture
R = 20%
PID = 0.0
ATHA = 0.0

Not much recovery, only enuf
for 1 VOC sleeve to be sent to lab
~~& GRO (1)~~ - & 1 of each GRO & DRO
Driller will go 10'-12' & see if H_2O
will ~~take~~ be found. 10%?
10'-12' (get ~~little~~ some recovery) 1245
Clay, moist, dark gray
w/ some shell
Driller to run screen into
hole
No samples sent to lab
from this hole

Lunch 1315
Return to base 1345 ~~1315~~

Ruben Portales

No Entry
Carlton Portalou

10-24-94

✓ 04-008PS 1430

~~1-3~~ 0'-1' Fill soil, clay, w/roots, lt brown, dry
PID = 2.1

1'-3' Clay, hard, dry, lt ~~brown~~ brown. 1435
some gravel, w/roots
PID = 3.8 R=100%
ATHA = 1.3

5'-7' Clay, ~~dry~~ little moist, 1445
No sample to lab lt brn, soft.
PID = 6.0 R=20%
ATHA = 0.8

8'-10' Clay, moist, dark gray, 1510
soft. R=60%
sent to lab 9.5-10' PID = 13.3
ATHA = 74.2

T.D @ 15'
Not sampled from 10'-15'

Drillers to decon equip.

✓ 04-009PS 1615

0'-1' Fill, w/roots, brown
PID = 0.0
ATHA =

1'-3' Clay, w/roots, brn, hard 1630
sent to lab dry, little rock pebble
ATHA = ~~20~~ 240
PID = 0.0
REC = 100%

Carlton Portalou Inc

No Entry
Carlos Bartolo

(24)

10-24-94

3'-5' No Recovery 1640

PID = 3.5

5'-7' Clay, dark gray, mottled brown, soft, slightly moist 1650

sent to lab PID = 60.1 TD at 15'
ATHA = 3032.0! Not sampled ~~7'~~ 7'-15' for water-only purposes only
R = 30% 1730
Driller to Decon
Screen was set on punch hole

Assisted Mark w/ COC ~~at~~ 1800
hotel room.
~~Mark~~ dropped off samples at ~~FF~~ Fedex.
The team will be going to ~~K~~Mart for supplies around 2000hrs.
End of day 1930

Carlos Bartolo

No entry
Rueben Portales

Tues. 10-25-94

Forecast: upper 40's today, windy & breezy, west to east winds, cloudy & overcast

Arrived on site 0700

Steve to check with guard on going onto & crossing apron (LEL was calibrated PID was calibrated).

Steve advised FAA was not notified of us to go onto apron yesterday by the ~~bet~~ sgt. he coordinated with.

Tailgate & safety ~~briefing~~ 0750 briefing

Will collect water samples from 04-007, 008, 009PS this morn.

moved to site & setup 0815

04-007PS-GW 0845

Only able to get 3 VOAs & ½ liter. Will return to ~~be~~ resample

04-008PS-GW 0910

Only able to fill 3 VOAs will return

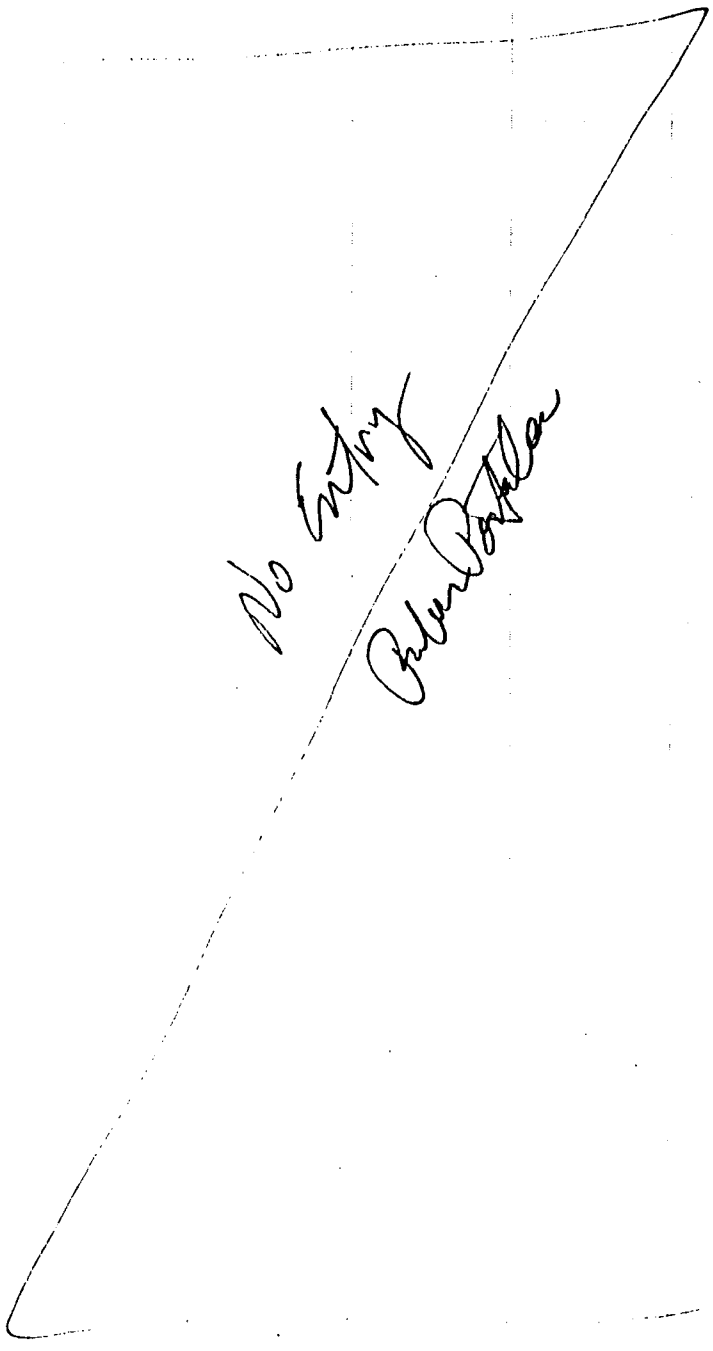
Rueben Portales

10-25-94

04-009PS-GW 0930

Obtained 3 VOA's & barely 1 liter of H2O
These three holes run dry pretty quick probably due to hard clays. ~~on th~~

Jeff to check w/ CE 1000
if we have been cleared for probes South part of BASE
& KC-33 TAWKEN to be moved so we have to clear apron area &
Jeff advised CE will clear 1015
us & I ~~24~~ 1400, ~~short~~ Wickman been busy.
Jeff advise we are down for now cuz of this.
Will pickup items from hotel being 1030
~~Fax~~ FedEx'd from Lab for Mark.
Picked up 5 ice chests & ~~1115~~
1 PID
Returned to BASE 1115



10-25-94

No Entry Barbara Portales

Will run QA/QC on equip. 1210

Equip: 1) bailer
2) tubing
3) split spoon

Fld Blank: 4) potable (thru steamer)
5) ~~DI~~ H_2O

Completed QA/QC 1315

Lunch 1330

Returned to base 1400

Will move to next push hole area Excavation across apron

Tailgate briefing 1430

cont. at 04-010PS

04-010PS 1500

0'-1' Clay, Fill w/roots, brn, dry
No sample sent
PID = 0.5
ATHA = —

1'-3' Clay, w/roots, black, dry, some sand 1505
6" sent to lab
PID = ~~474~~ 6.1 R = 40%
ATHA = 0.3

No entry
Carlene Pantalo

04-010PS (cont.) 10-25-94

3'-5' Clay, soft, slightly moist, lt gray, mottled brn 1530

1.0' to lab PID = 1.3 R = 60%
ATHA = 0.4

5'-7' Clay, soft, black, 1545
w/roots; hard, gray upper 4"

1.5' to lab PID = 1.3 R = 100%
ATHA = 3.0

8'-10' (WATER) Clay, gray, moist, soft, 1600
no roots

1.5 TO LAB PID = 1.8 R = 100%
ATHA = 3.6

Pack up since drillers have 1625
to de con
get water samples
previous holes

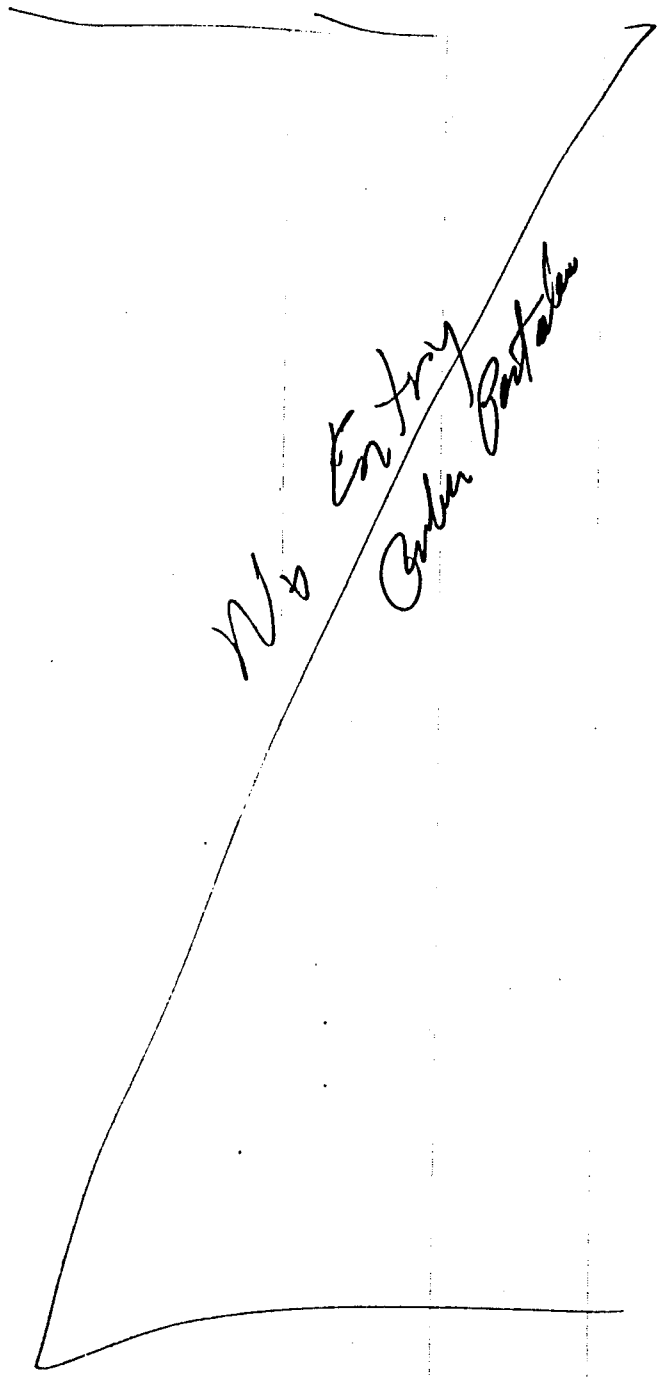
04-007PS 1700

GS → TOC = 3.0'
TOC → H_2O = 8.6'
TOC → bttm H_2O = 14.66

Completed H_2O samples for lab.

Carlene Pantalo

10-25-94

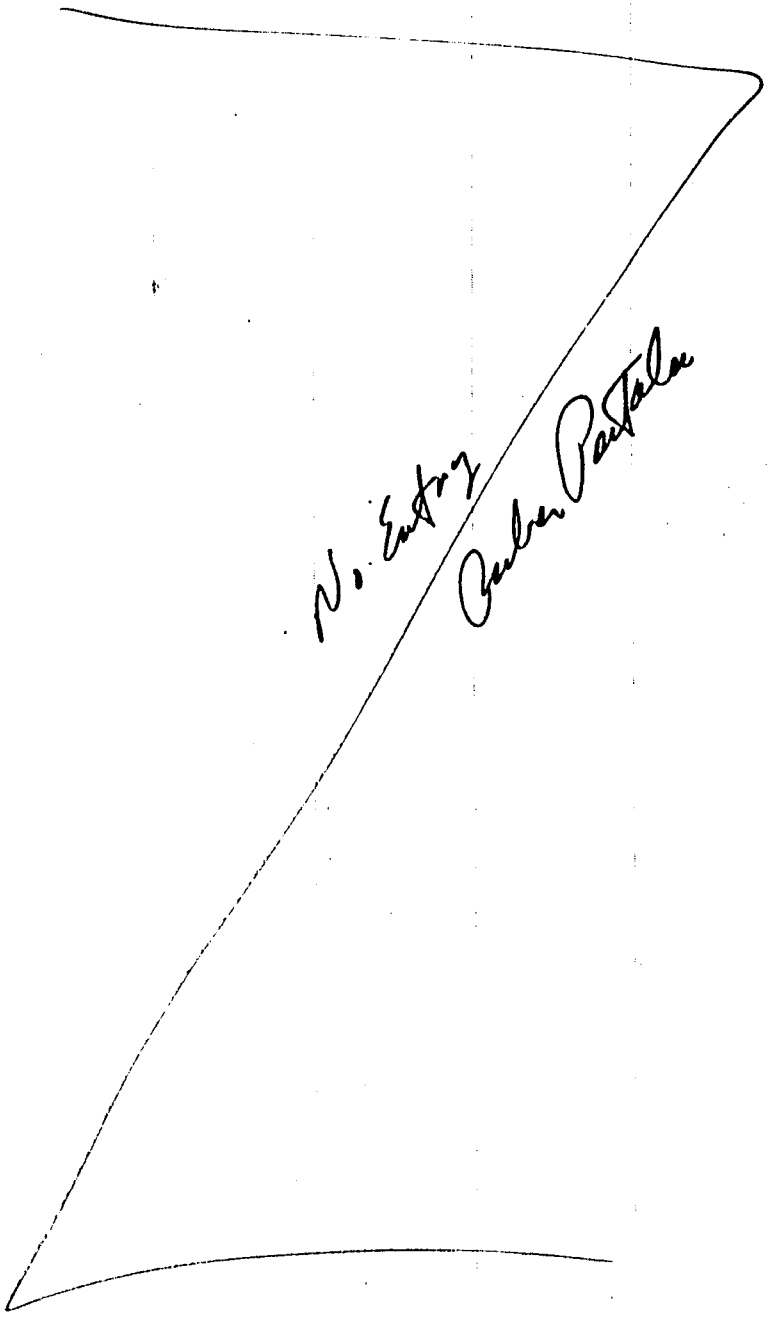


04-0071PS

1730

GS → TOC = 0.5'
TOC → H_2O = 11.91'
TOC → bottom H_2O = 14.72'
Only encnt H_2O
Took sample for VOA's & DRO
Security came by and advised only 20 minutes more allowed since KC-35 was to be moved & we had to vacate apron area. 1745
Will continue tomorrow
Mark & I straightened out Van at hotel parking lot 1800
Assisted Mark with COC 1815
Dropped off samples at FEDEX. 2000
Went to K-Mart to pick up tape, baggies, & goggles for tomorrow
End of day 2030

Carlos Bartolo



Wed. 10-26-94

Forecast: 40's to 50 high., cloudy & partly sunny, light winds, easterly direction.

Arrived on site 0700

PID & LEL calibrated

Checked w/Security Command 0730

0815 flight

0800 flight

0840 flight

as per Sgt. Larson. Steve advised him of our pgm-ttt.

Steve thinks it'll probably be about 2hrs before we may be able to get out to H2O sample ≅ 0930, since they have not been on time lately.

Jeff went to check if CE 0758
cleared other pts so we can go there

Tailgate briefing 0820

Will ~~do~~ move onto East St. and punch holes along drainage ditch

Barbara Pastalen

(31)

10-26-94

04-020PS

0840

0'-1' Fill, clay, hard, w/roots, some pebbles, brn, dry
No sample sent
PID = 1.0 R = 100%?
ATHA = —

1'-3' Clay, gray to brn, dry, some gravel, little sand 0845
PID = 18.2 R = 100%
ATHA = 42.3

3'-5' 5'-7' Clay, soft, gray, wet, some sand, strong gasoline odor 0905
PID = 229.0 Rec = 60%
ATHA = 780

Steve to get drillers after decon. 0910-1000
Set up at new punch hole
Jeff advise change of procedure: 1005

1) No H2O samples to lab, GC only
2) No PID
3) MW will be done
4) Soil samples every 3rd pt. to lab will need GC for others

Rube Bartalka

No Entry
Ruben Portalatin

04-019PS 1040

0-1' No sample to lab — Fill, w/roots, some gravel, soft, brown to gray, clay lower 6"
PID = 0.3
ATHA =

1'-3' Non lab sampled — Clay, ~~soft~~ soft, ~~sandy~~ sandy 1045
6", light gray, mottled orange, petrolor.
PID = 22.5 R=100%
ATHA = 33.2

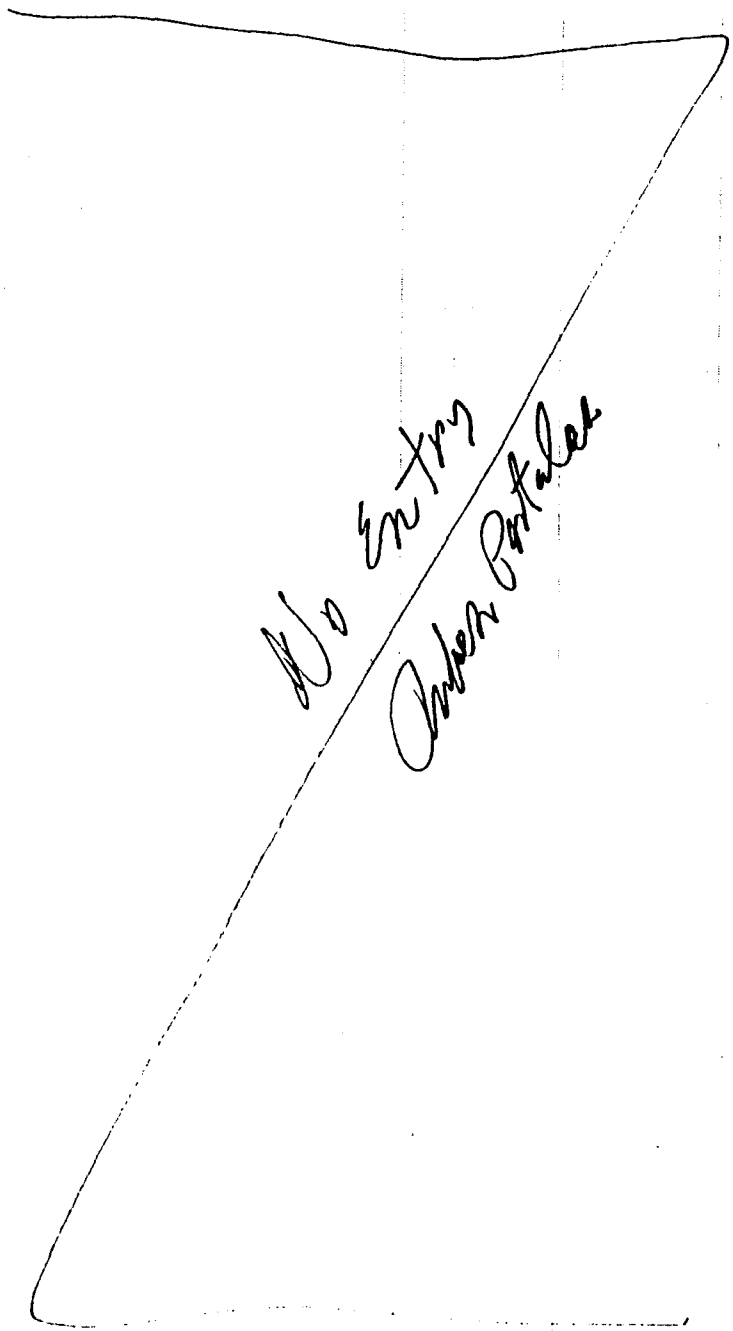
5'-7' non lab sample — ~~Clay~~ sand, wet, ~~Petrolor~~ 1100
gray, no roots
PID = 2.0 Rec=100%
ATHA = 0.3

04-021PS 1145

0'-1' Non lab sample — Fill, ~~clay~~ clay, w/roots, some gravel
dry, brn, hard
PID = 4.8
ATHA = ~~0.0~~ —

1'-3' Non lab sample — Clay, hard, some roots, dry 1150
black to gray
PID = 10.2 R=100%
ATHA = 0.0

Ruben Portalatin



(04-0211S cont.) 10.26.99

5'-7' Sand, clay, coars-grad, wet, 1210
non-lab sample light brn, ~~fine-grad~~ mg-fg, gray
PID = 1.1 R = 100%
ATHA = 0.0

Lunch 1240
Return to site 1335
04-028PS (SENDING TO LAB) 1400

0'-1' Fill, w/roots, some pebbles,
No sample ~~RFD~~ dry, ~~black~~ brown
PID = 2.3
ATHA = —

1'-3' Clay., dry, hard, some 1410
sent to LAB Clay. gravel, lt brn to gray
PID = 143.0 R = 100%
ATHA = 132

~~3~~ 5'-7' Sand, wet, gray, FIRM to 1430
1' sent to lab black, med. grained, STRONG Petro. odor
PID = 1797 R = 80%
ATHA = 1725
Possible the wet sample could be product, unk for sure but strong odor.

Andrea Portales

(34)

10-26-94

04-027PS 1520

0'-1' Fill, w/roots, dry, hard
No sample ~~Some~~ little pebble
PID = 0.8
ATHA = —

1'-3' Clay, soft, w/roots, 1545
~~Normal to lab sample for~~ brown, slightly moist.
PID = 0.0 R: ~~80%~~ 10%
ATHA = 0.3 Only enuf sample
~~0.3 for lab~~ for GC.

5'-7' Sand, gravel, moist, 1600
1' for lab w/gravel, med-grained
PID = 0.0 R = 80%
ATHA = 0.0

make to next punch hole 1630

04-023PS 1655

0'-1' Fill, w/roots, brown,
w/rock
PID = 0.0
ATHA = —

Erika Bartalo

Erika Entry
Erika Bartalo

No Entry

Ruben Bartolo

(04-02315 cont.) 10-28-91

1'-3'	clay, dry, some roots, some rock, brown	1700
1.5 to lab	PID = 3.1 ATHA = 0.0	R = 100%
3"-5'	Sand, coarse-grad.	1710
1' to lab	slightly moist, brown PID = 1.2 ATHA = 0.0	R = 50% (MS/MSD this)
5'-7'	Sand, csg + med-grd, wet, some gravel	1730
1.5' to lab	PID = 0.0 ATHA = 0.0	R = 100%
	Assorted Mgmts w/COC back at hotel. Mark shipped off to FedEx.	1800
	End of day	1900

Ruben Bartolo

No Entry
Carla Portales

(66)

Thurs. 10-27-94

Forecast: 35° to warm up to 63, breezy, 15-25 mph wind, easterly, cold.

Arrived on site 0700

PID/LEL calibrated

Obtained ice for samples 0720

Jeff to speak w/ HNG/Pill 0750

Tailgate briefing

1) SWM

2) Soil samples as before

3) H_2O sample for GC only ~~for~~ on holes

4) PZ back on w/ H_2O sample

Therefore, 04-001PB & 020PS have to be resampled since only GC sample was obtained.

Move to 04-019PS 0800

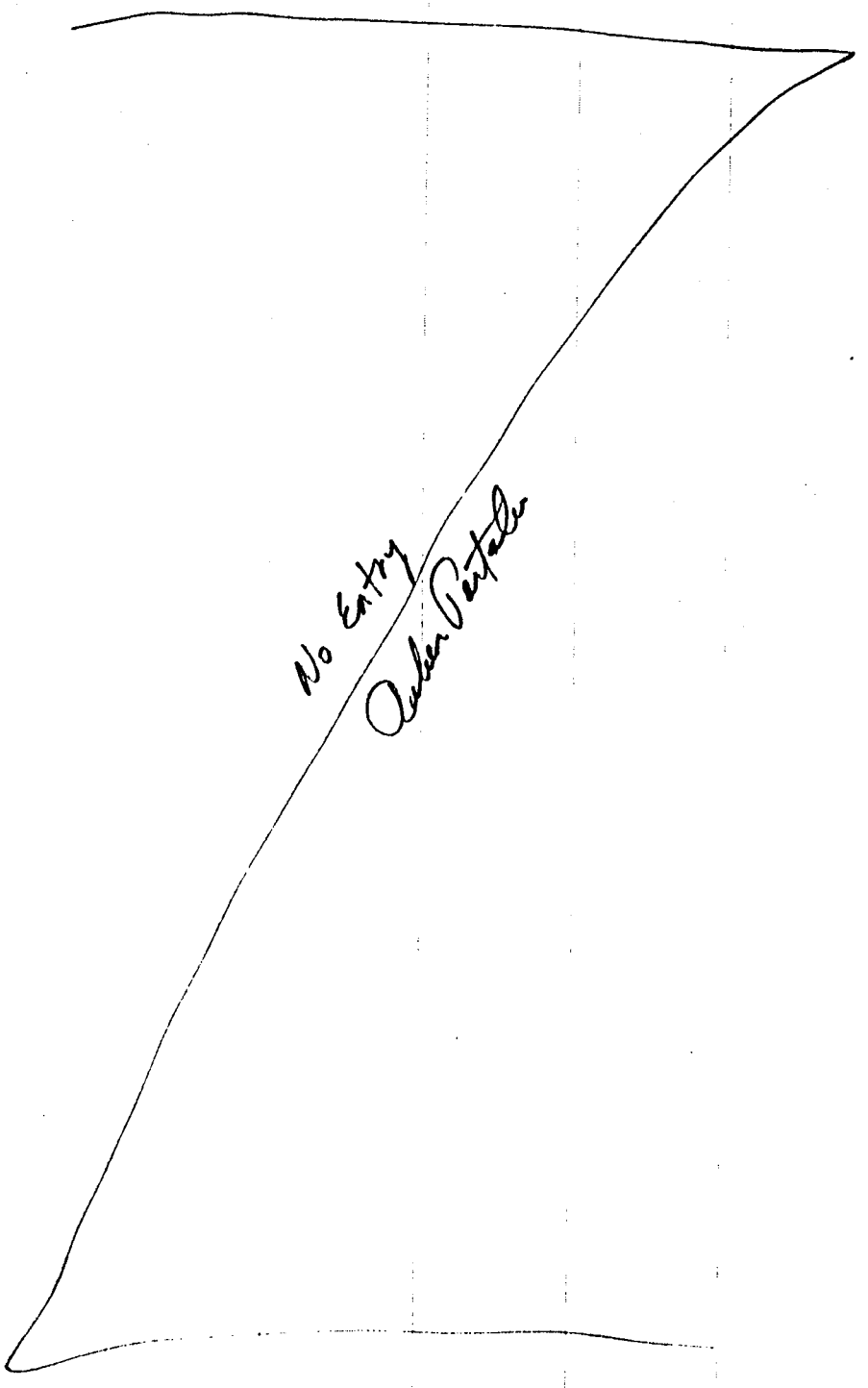
04-019PS (SENDING TO LAB) 0825

0'-1' Fill, clay, w/roots, soft, dry, brn to gray, mottled orange
No sample
PID = 1.6
ATHA = -

1'-3' Clay, soft, some roots, dry, brn to gray, pet. odor 0830
PID = 13.2 R = 100%
ATHA =

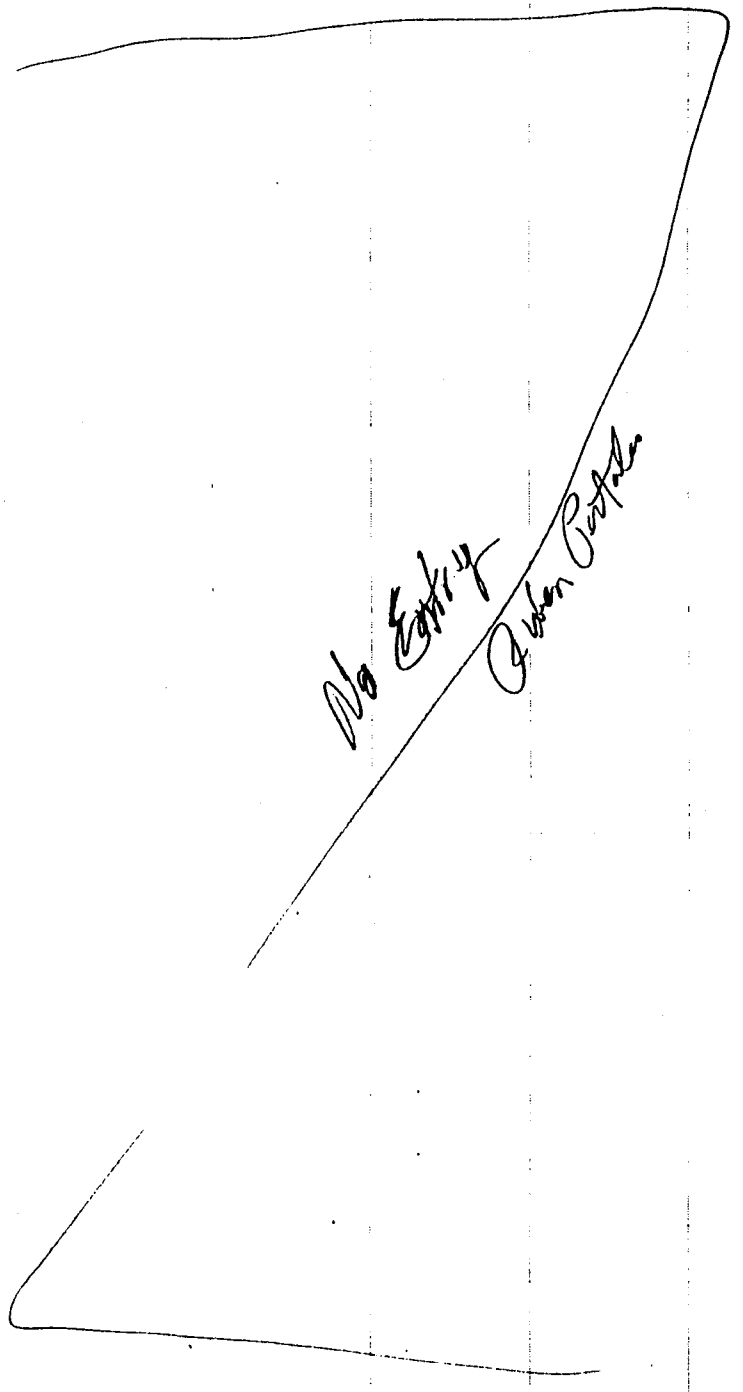
Carla Portales

10-27-94



3'-5' No Recovery 0845
(for Duplicate) R= ∅
5'-7' ~~Clay~~ Sand, wet, petro. odor, dark gray
Sent 1.5' lab PID = ~~2~~ 1.6 R= 100%
ATHA = 0.5
Drillers to decon 0915
04-021PS (SENDING TO LAB) 0950
0'-1' Fill, w/roots, brown; clay lwr 6" w/gravel, brn, dry
NO LAB sample PID = 1.5 ATHA = —
1'-3' Clay, hard, brn to gray, some pebbles, dry, some little sand, 1000
1.5' to lab PID = 0.0 ATHA = 0.0 R= 100
3'-5' (DUPLICATE) No Recovery 1015
For Dup
PID = — ATHA = — R= ∅%
5'-7' Sand, ~~gc~~ cg, brown, wet, some roots 1030
PID = 0.0 ATHA = 0.0 R= 100%
Drillers to decon
Geff wants to H_2O sample for GC (Marlex)
on punch holes we did yesterday & today

Ruben Portales



10-27-94

Obtained Water Sample for Split Spoon (Equip. blank) 1130

Drillers advised hydraulic line located on Strataprobe - they will repair - approx 1-2 hrs down time

Obtained GC H_2O sample for: 04-~~023PS~~ 023PS, 019PS, 027PS, 028PS, & 023PS. 1200

Lunch 13~~15~~

Return to site 1400

Drillers able to get their repairs, ok to resume

will obtain~~ed~~ H_2O ~~sample~~ sample from 04-021PS after drillers able to ~~clear it~~ re-punch it next to it. 1445

Bill Hadbury ~~had~~ returned on 10-25, & he went back home this afternoon. He said he may return next week for the MW but it is Ruth's L. call.

Drillers will place screen to collect water but new hole has collapsed again. Went down few feet w/screen. Will leave it & see if ~~can~~ can get H_2O. 1505

Ruben Castaneda

12-27-91

No Entry
Ruben Portales

04-022PS

0'-1' Fill, w/roots, gravelly, brn 1555
No Sample
PID = 0.0
ATHA = —

1'-3' Sand, ~~clay~~ some clay, gravelly, 1600
1' to lab dry, poorly sorted, ltbrn
PID = 0.0 R = 60%
ATHA = 0.0

5'-7' Sand, clayey, wet, lt 1615
1.5' to lab brown, some pebbles
PID = 0.0 R = 60%
ATHA = 0.0

04-026PS 1650

0'-1' Fill, clay, w/roots, some gravel, dry, black
No sample
PID = 0.0
ATHA = —

1'-3' Clay, w/roots, rockfrags, 1700
0.5' to lab ONLY dry, black
PID = 0.0 R = 20%
ATHA = —

5'-7' Clay, fg, slightly moist, 1715
1' to lab lt gray, soft, little roots
PID = 0.0 R = 80%
ATHA = 0.0

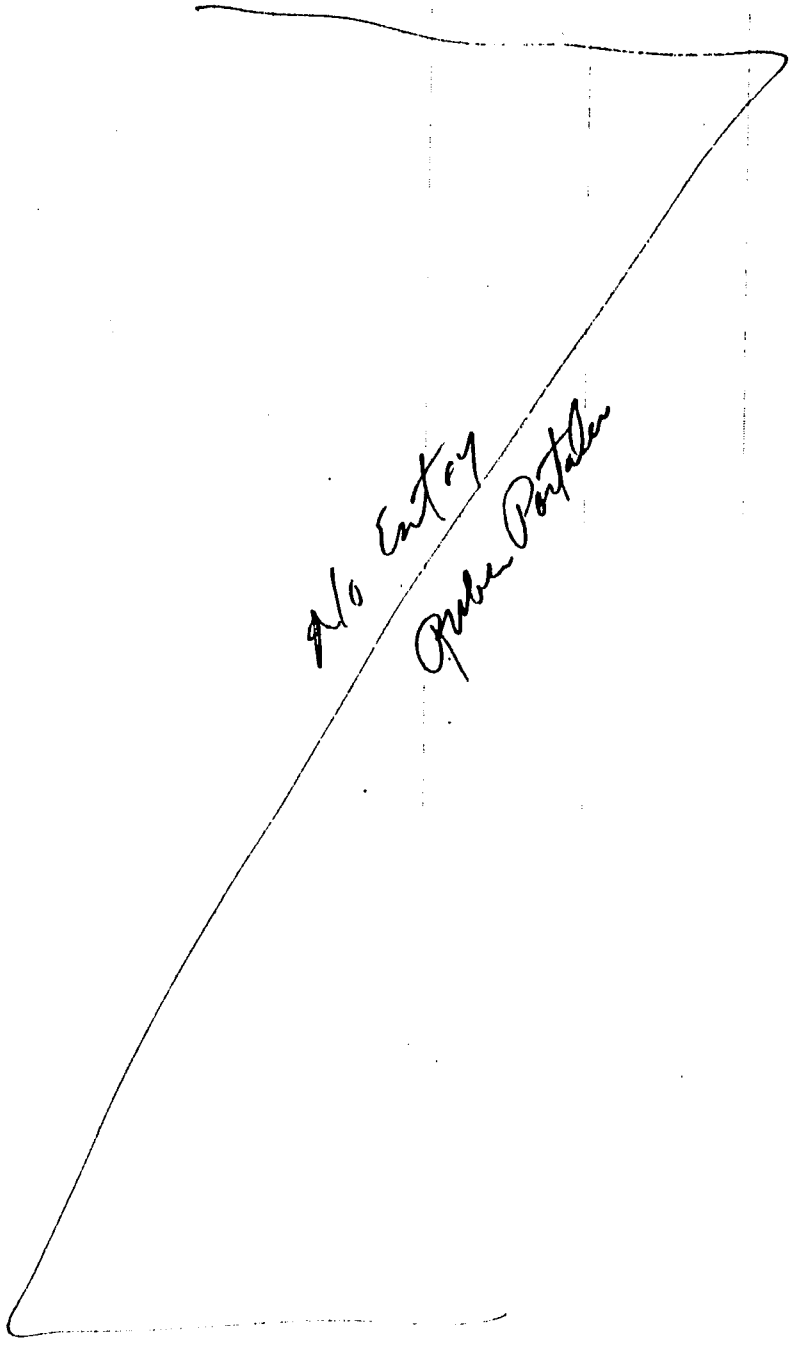
R. Portales

JS
10-27-94

Observed de-con 1800
Will assist Mark w/coc
back at hotel
Returned to hotel 1845
Organized van
Prepared cocs 1930
dropped off samples at
FedEx
End of day 2000

No Entry
Ruben Portales

Ruben Portales



FB 10-28-94

Forecast: 40's to low 60's, partly cloudy, breezy - easterly dir.

Arrive at site 0700
Prep for today
obtained ice 0730
104-004P2 0810

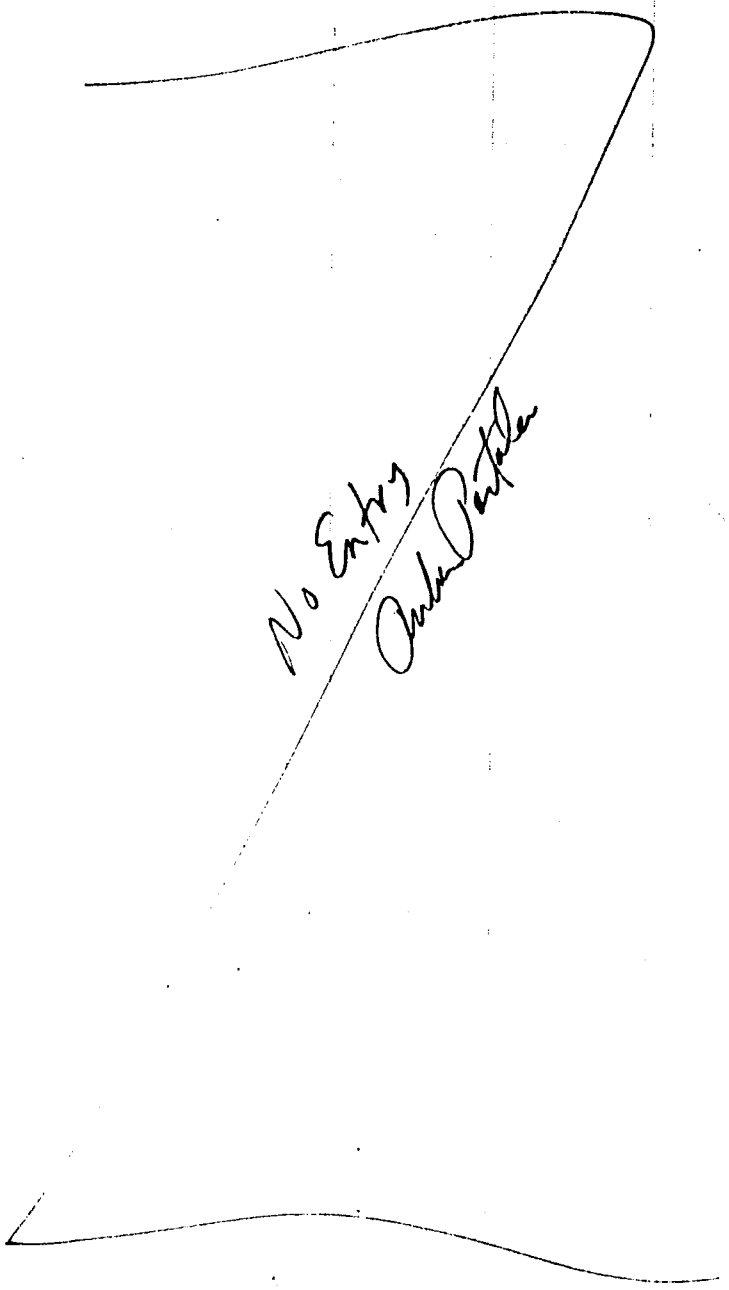
0'-1' Clay, dry, some rock frags, soft upper 6", black
No lab sample
PID = 3.0
ATHA = —

1'-3' Clay, some roots, w/rock frags, angular, dry, black 0830
1.5' to lab
PID = 34.1 R = 100%
ATHA = 0.0

5'-7' Clay, slightly moist, fine-grained, black to gray 0850
1' to lab
PID = 26.1 R = 70%
ATHA = 0.0

~~10-1P2~~ Cap to push rod ~~was~~ 0920
too tightened, so drillers had to buy New wrenches, teeth on their old ones to old worn to grip.
Rig down approx ½ hr

Rich Portelli



(04-004PZ cont) 10-28-94

8'-10' Sand, med-grnd to fine- 1000
1' to lab grnd, wet, dark gray
PID = 0.7 R = 70%
ATHA = 0.0

PZ screen set to bttm at 10'. 1015

Hole TD @ 16'

drillers to decon 1030

04-025PS 1100

0'-1' Fill, w/roots, top 6",
No lab sample w/gravel; clay, w/pebbles, dry
PID = 0.0
ATHA = —

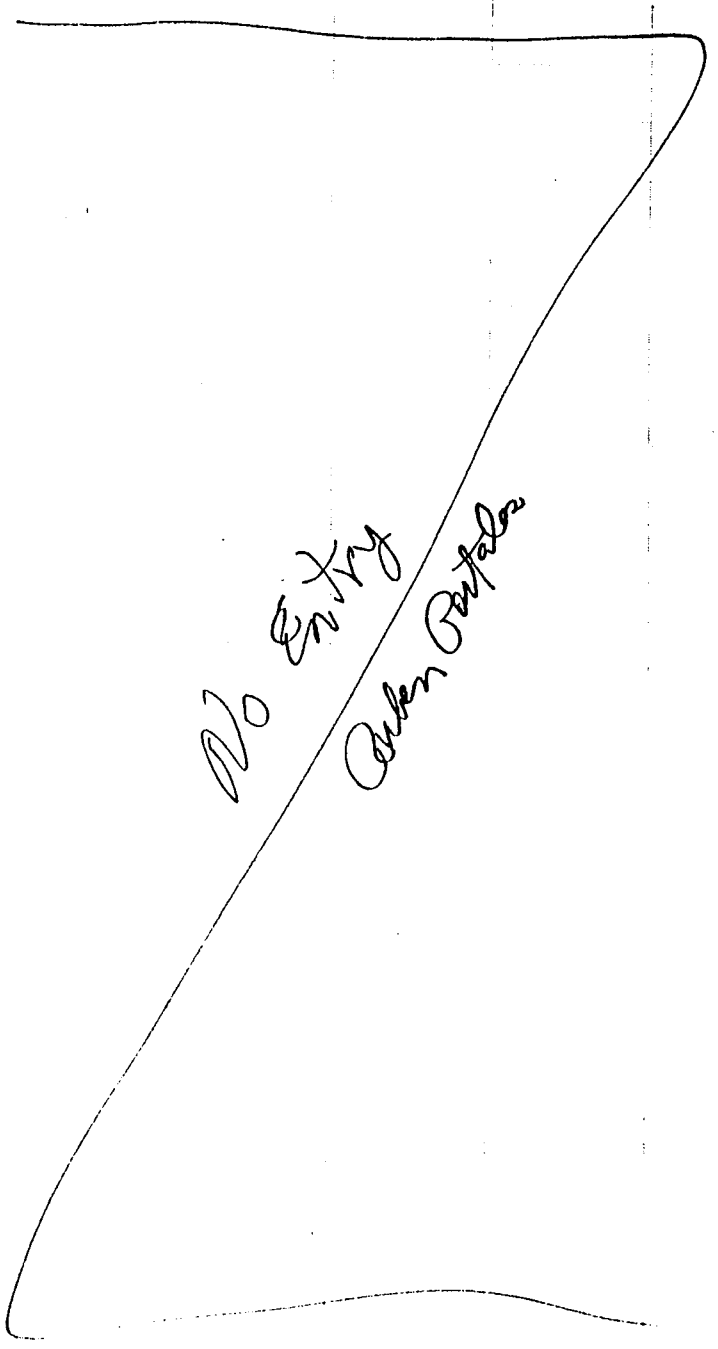
1'-3' Sand, some clay, ~~1100~~ 1115
1' to lab fcg, poorly sorted, w/gravel, angular, brn, dry
PID = 0.0 R = 60%
ATHA = 0.0

3'-5' DUP Clay, dk greenish-gray, 1130
1' to lab soft, slightly moist
PID = 0.0 R = 60%
ATHA = 0.0

5'-7' Clay, sandy, w/gravel, poorly 1155
1' to lab sorted, angular, soft, dry, black
PID = 0.0 R = 50%
ATHA = 0.0

TD @ 8'

Charles Pitcher



10-28-94

Drillers had to drill down to 18' to reach water. 1215
Screen to be set for GC H2O sample, but seems hole collasped.
Drillers to re-punch hole since not able to unplug hole & will get sample from 10'-12' - seems water around that interval. 1230
~~10'-12'~~ 04-025PS 1247
10'-12' clay, hard, dry, ~~wet~~
w/some pebbles, ~~gray~~ sub-angular, gray
PID = 0.0 R = 80%
ATTN = 0.0
Drillers not able to get to water table - they are trying to break down thru previous hole. 1315
Hole collasped again - not able to set screen. 1325
Lunch break 1330
Return to site 1430
prep for next hole
Drillers getting their equip. ready 1500

Arlen Buffalo

No Entry
Amber Bertolus

10-28-94

04-029PS 1520

0'-1' Fill, w/roots, dry, some rock; Clay, sandy, lwr 6", brn, dry
No lab sample PID = 0.0
ATHA = —

1'-5' Sand, med coarse grnd, dry, 1530
1.5 to Jab Lt brn; clay, lwr 6"; brn, hard, dry
PID = 0.0 R = 10
ATHA = 1.6

5'-7' Clay, ~~sand~~ hard, mottled 1545
orange, fine grnd, brn, dry
PID = 0.6 R = 100%
ATHA = 0.8

Possible water close to 7', some moisture in spoon.

PVC screen set 1600

04-030PS 1650

0'-1 Fill, w/roots, dry, brn; Clay,
No sample lwr 3", dry, soft, brn
PID = 2.3
ATHA = —

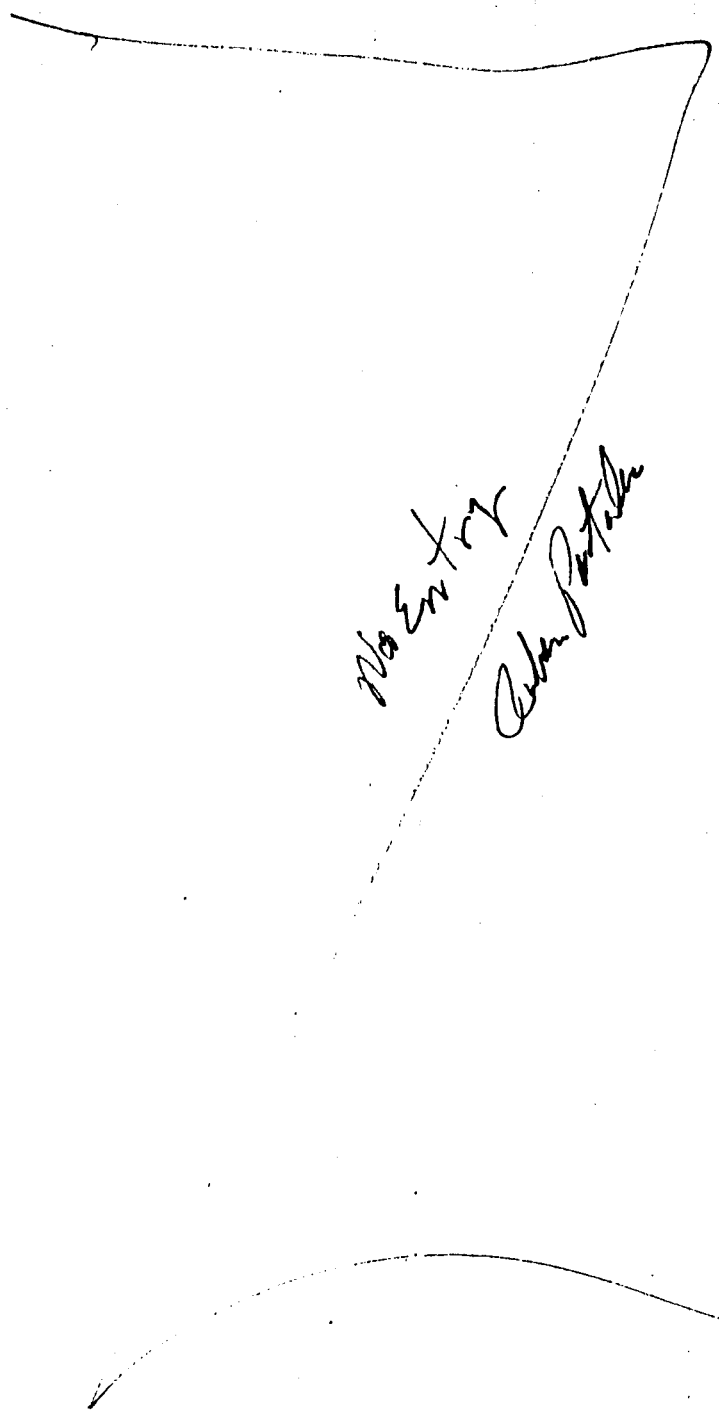
1'-3' Clay, sandy, ~~Gr~~ med grnd, 1655
1.5' to Jab Lt brn, ~~stiff~~ W.E.T
PID = 1.3 R = 100%
ATHA = 1.7

No Entry
Julee Castaldo

(04-030PS cont.) 10-28-94

5'-7' Clay, sandy, some pebbles, 1710
1.5' to labr Wet, lt brn
PID = 2.6 R = 100%
KATHA = 3.8
Drillers to decon 1730
Will try to punch (2) tomorrow depending if enuf methanol for drillers
Assisted Mark w/COC's 1800
Dropped off at FED EX ~~1820~~
End of day 1900

Julee Castaldo



SAT. 10-29-94

Forecast: breezy, easterly dir, cloudy, mid 50's for high.

Arrive at site. Tailgate brtg 0700
Steve had muscle spasm & will join us later today.

Checked w/ Security Police, 0715
they had 1 flight at 1045 today

Prep to go onto H_2O sample 0730
~~Off~~ across apron

Drillers mixing cement to plug 0750
holes

04-008PS-GW 0815
Obtained H_2O sample
for GC

04-010PS-GW 0840
Obtained H_2O sample
for GC

Bryan has trouble with 0900
leg of Strata probe - cannot
~~drill~~ punch hole for now

Craig advised rod broke off 0945
of strata probe leg. It has
to be welded on. He will
check if it can be welded on
today by someone - unk if open
welders today. Will Check.

No Entry

Arlen Pastalka

10-27-14

Water Sampled 04-030PS-GW 1000
for GC.
Not able to get H_2O sample
from 04-029PS-GW. It
seems clay too dense for water
percolation.
Deconed bailer
H_2O ~~water~~ sampled 04-021PS-GW 1030
for GC
deconed bailer
NOT able to obtain H_2O sample 1055
from 04-022PS-GW. ~~Seen~~
There was moisture outside of bailer
but not even a drop of water
from bailer came out.
STILL waiting on drillers see if
they found a welder or not.
Drillers returned & got 1115
their weld. They will put the
strata pole together
Lunch 1130
Return to site 1200
Drillers decon 1215

Arlen Pastalka

10-29-94

04-038 PS

1220

0'-1' Asphalt, 6"; fill, gravel
dry, ~~lt~~ white
None to hole
PID = 0.0
ATHA = —

123

1'-3' Clay, sandy upper 6", ~~brn~~, dry;
1.5' to hole ~~clay~~ soft, mottled orange, dry
PID = 0.0 R=100%
ATHA = 0.0

5'-7' Sand, slightly moist, cg, ~~#~~300
1' to hole w/rock frag, angular, lt brn.
PID = 0.0 R = 50%
ATHA = 0.0

10'-12' Clay, wet, brn, 1325
1.5' to hole Lower 6" sandy
PID = 0.0 R = 70%
ATHA = 0.0
GC ~~H2O~~ sampled 04-038PS-GW

Drillers to decon 1350

Prep for next punch hole 1405

04-035PS 1420

0-1' Fill, ~~w/roots~~; clay, w/roots, soft,
No hole sample ~~fg~~, dark gray
PID = 0.0
ATHA = —

No Entry
Carlos Bustamante

(04-035PS cont.) 10-29-94

1'-3' Clay, semi-hard, mottled 1430
orange, gray, sandy lwr 6", moist
1.5' to lab PID = 0.0 R = 100
ATHA = 0.0

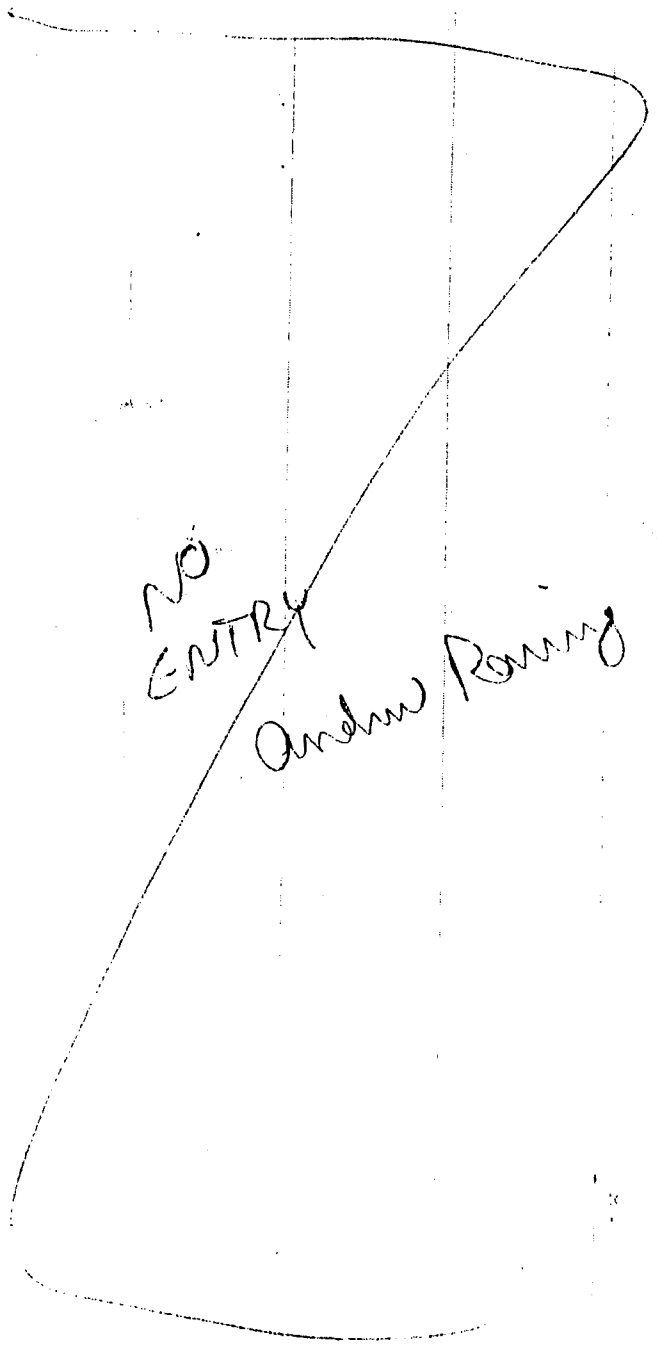
5'-7' Sand, wet, ~~mg-fg~~ mg, poorly 1445
6" to lab sorted, gray
PID = 0.0 R = 40%
ATHA = 0.0

H_2O sample to GC 04-035PS-GW

Drillers to decon 1500
Assisted Mark w/COC 1530
Dropped off samples @ Fed.Ex 1630
~~Completed~~ End of Day 1700

Will return to SA, TX tomorrow. Will give log book to Jeff to have next geologist continue log. Will also handover 1985 log of boring report from Ct. Huelsman to Jeff.
Will have Mark handover "Water Resources" materials on loan from Ct. Huelsman to him.

Robert Bostic

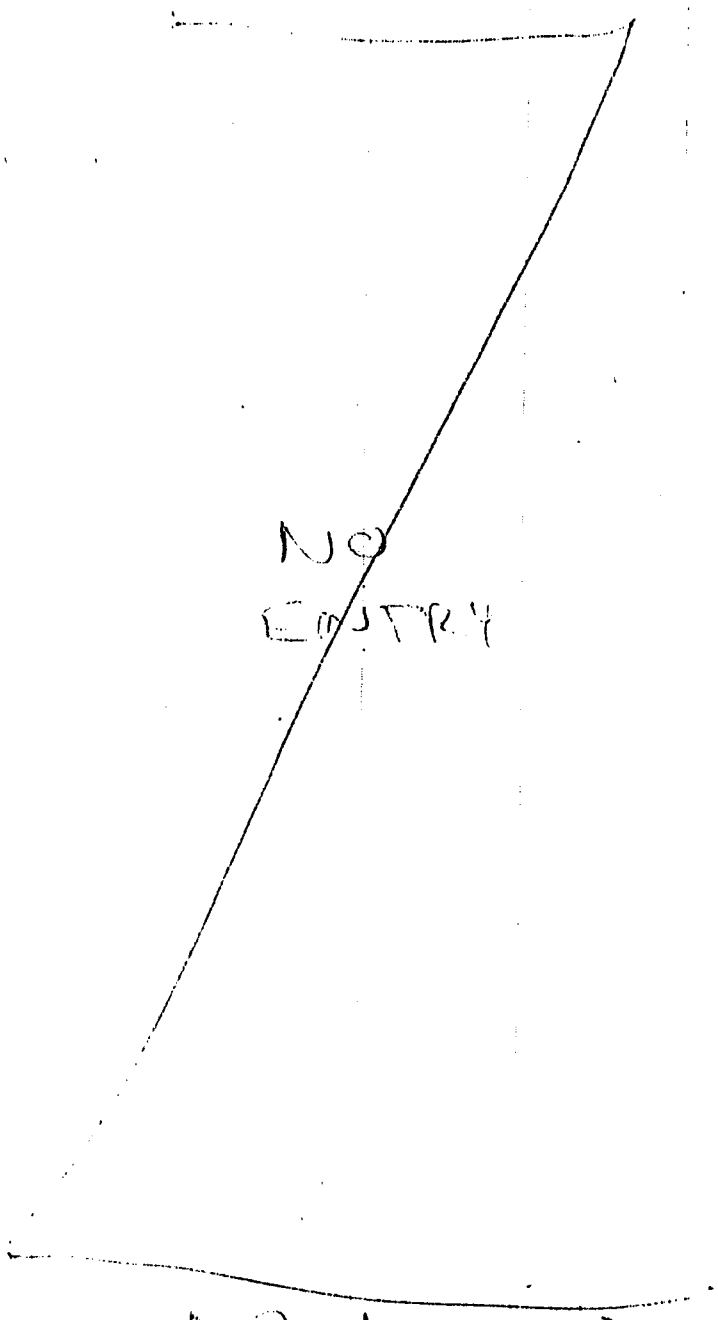


45
10/31/94

(94-004 PZ) 5" I.D. P.V.C. to GL.
9.10 water depth
13.60 to round
15 pvc Total 0820
P.I.D. reading 2ppm 7 background
no response in pipe (1
AR

(94-003 PZ) 0-1' organic silt
dark olive brown (2.5Y 3/3)
some fibrous abundant
roots - wood chips Topsoil
1-3' contact - topsoil above, sa 0-1
(n.n.o) plastic clay. Olive (5Y 4/3)
Sampled dense, organic
3-5' (P10 653) duplicate sample
organic w/ peaty odor
5-7' grey organic silty cla
w/ plastic - organic odor
non-hydrocarbon odor 9:45
14-16 strong odor 1233 P.I.D
sample as above
clay grey (5Y 4/1) strong sewage
odor

Andrew Rowing



Andrew Rennie

15/3/94

SP-002PZ
0-1 Black to v. dark grey Topsoil
Clayey silt loose
1-3 Topsoil as above at Top - Below
Clayey silt, firm, slightly
red to light yellowish brown
5-7 dense, cohesive recovery
Olive silty clay plastic
NO PID
10-12 lt olive brown (2.5Y 5/3)
clay - plastic & dense
wet NO PID
SP-002PZ 1:30
0-3" Topsoil organic black silty
3"-1' Brown (7.5YR 5/4)
silt loose, cohesive, dense
clay, roots, angular
1-3 cohesive dense, silty clay
Sample @ 3"-1 ft
Sampled - PID = 0
SP-003PZ
5-7' Dark grey (5Y 4/1)
silty clay, dense, moist
roots

Andrew Rennie

NO
ENTRY

Andrew Ramey

47
10/31/94

Weather sunny
04-002-PZ [illegible] Sampled 15:15
10-12' yellowish brown (10YR5/4)
fine sandy clay, moist, damp
[illegible] odor

(end of day 10/31 GW level 9.1) 11/1/94
004-PZ 9.0 ft below T.O.P. & G.W.
14.6 ft to top of fill 6:52
Gail V.O.A.s, enough water
lead sample successfully collected. 1/3 of
liter jar for PAH - not enough. No
P.I.D. reading in Top Of Pipe at start
(PZ4 is in South east corner of north tract)
Crew off purging PZ2 for risk of ditch)
04-001PZ GW level 7.35 T.O.P.
good producer 14.70 to mud
GW 6.15 below GL 1.7 ft casing to GL.
15 feet deep

Well Vol = $(0.0408) \times (.75)^2 \times$ ft Water

.75	.5625	.2295 × 8.85	15 − 6.15
.75	.0408	8.85	8.85
375	45000	11475	
525	225000	18360	.19 ft³ gal.
5625		18360	
.0229500		1930675	

Bailed dry - 8 x 6 d 1/2 gal.

Andrew Ramey

11/1/94

04-003PZ #316 P.I.D.

across ditch to west near Sand N40
near corner when drilled.

Measurements: 4.30 GW below TOP

15' of pipe in 16 ft hole

7 ft to hard ground - reamed with rod to 15' - screen still sticks at 7' - put on longer screen - still sticks below 7' but agitate to suspend clay in well water

04-015PS 10-01 0-1 ft PID=0

6" dark brown topsoil

6"-10" mottled olive & yel-brown silty clays

10-12" clay, olive, dense, plastic

1'-3' Sampled clay, olive, plastic (18.7 on sample)

3-5 gray, clayey sand, sl cohesive

big odor - big PID This location on west ditch bank north of 003PZ perhaps 200 feet. Water at 02.9 TOP

>1400 PID on headspace sample

04-014PS by Williams & picnic table East side of ditch south of Tanerway

0-2" topsoil, black clay loam

2"-8" brown, mixed loam fill, pebbles

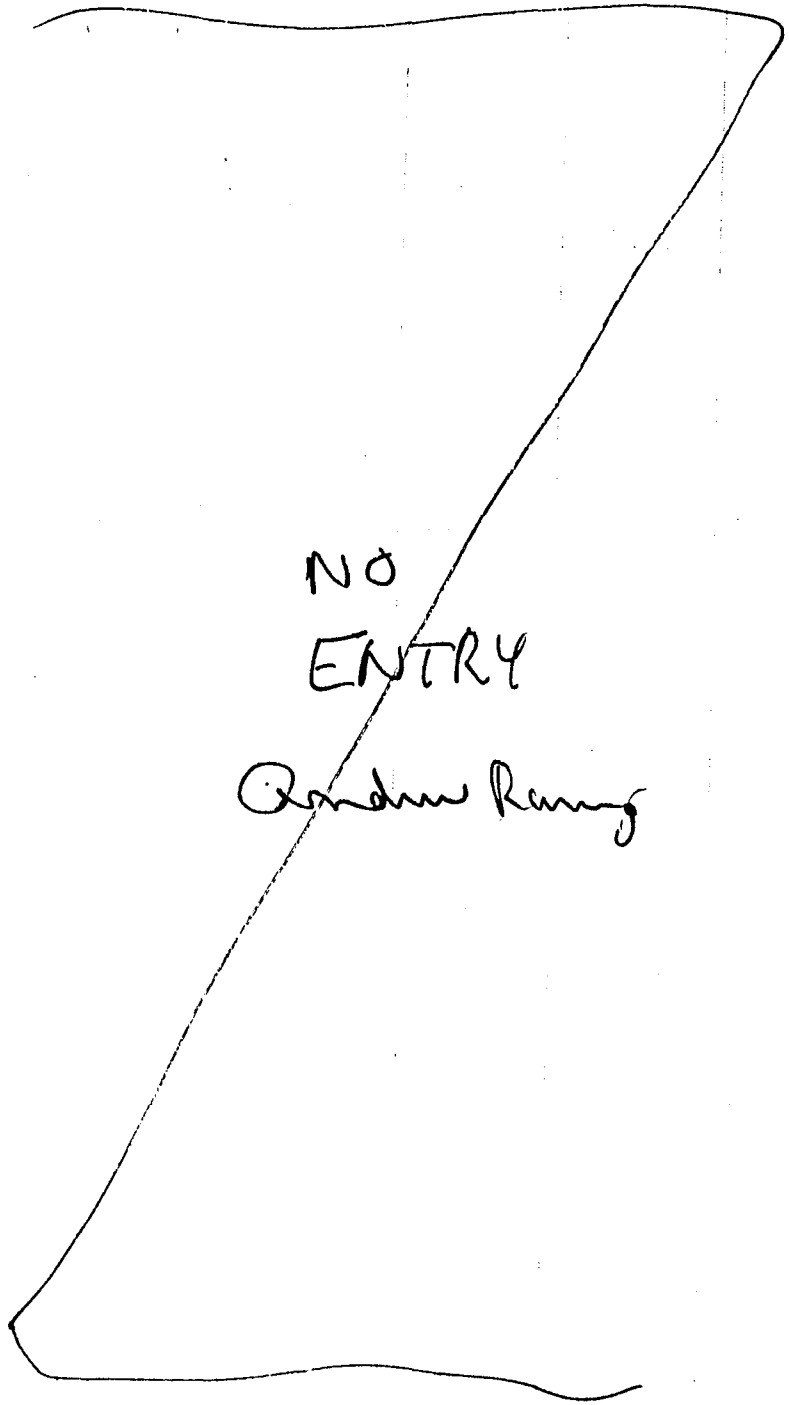
1-3' olive brown (2.5Y 4/3) clayey silt blocky, sl cohesive

Sampled - contact near 3' ft into pure clay

11/1/94

04-014-PZ 3-5 NOT SAMPLED
5-7 NO RECOVERY — mostly sand
Md. yellowish-brown Silt, clayey
7-9 ft dark grey brown, clayey silt
wet plastic (AR)
after lunch ~~04-012-PS~~ On grass north of taxi way West of ditch
0-3" Top Soil, dark brown roots
3-9" Brown (7.5 YR 5/3) clayey silt mottled patchwork (fill)
1-3 ft Increased - well compacted fill
2 brown mixed fill with pebbles, mottled
3-5 No Sample
5-7 fill, dense, dry 1/3 recovery Sampled med dk brown, clayey silt with pebbles
while working on 04-012PS it was misidentified as 04-013- Project manager caught problem. Labels changed.
~~04-011-PS~~ 3:00 PM West of runway
East of ditch - Towards north
0-1 ft mixed dark brown topsoil & mod yellowish brown silty clay, roots.
NO PID. Very dark brown (10YR2/2)
to dark yel-brown (10YR4/4)

Andrew Rawings



11/1/94

04-011 PS 1-3 ft Sampled 2.4 ppm PID
04-011 PS 5-7 ft Sampled 2.8 ppm PID
~~dark~~ light olive brown (2.5Y 5/~~5~~)
clayey silt. very dense & firm.
bored to 11.5 for water. put well pipe in
no water - soil too tight. 4" pipe temp.

04-013 PS - 1620 - SW corner Park way & ~~lane~~ (AR) paving
0-1 ft top 8" is dark brown topsoil
a sandy clay loam - roots
1-3 ft sampled dense clayey
PID 3.4 ppm silt mottled dark brown to
yellow brown - FILL well compacted
5-7 ft dark brown clayey sandy silt
PID 2.9 clay and well compacted 1650 dry
took hole to 10 ft and took water
sample for GC - PID battery died.
No odor in this hole - new fill?

Wednesday 11/2/94

04-018 PS 0-1 ft PID = 1.3
1" topsoil 2-10" light brown sand
poorly sorted with pebbles - fill
1-3 ft Top was @ 1 ft of fill pebbly
sand, as above - only 2" recovered
below ~~4~~ (AR) was olive clay, dense
and cohesive - plastic
Andrew Ramos

11/2/94

04-018PS 5-7 ft greenish olive clayey, silty, fine sand. Damp, cohesive. distinct gas odor. water at 5.1 BGL droplets of free product on sample. Brian with Target reports same at PZ3. Rig problems, sheared bolts on self scan wrkd

9:15 04-016PS

0-1 ft topsoil above Pale Olive (5Y 6/3)

1-3 ft Dark grayish brown (10YR 4/2) Sand, silty. Crumbly & dense damp. PID elevated no odor —

5-7 ft no recovery - wet. loose sand.

1005 04-017PS in pavement cut hole. 0-1 ft rock & black top soil

1-3 ft dark gray (5Y 4/1) organic clay dense clay at base - above was sand lost during spoon extraction. inadequate. NO SHAKE

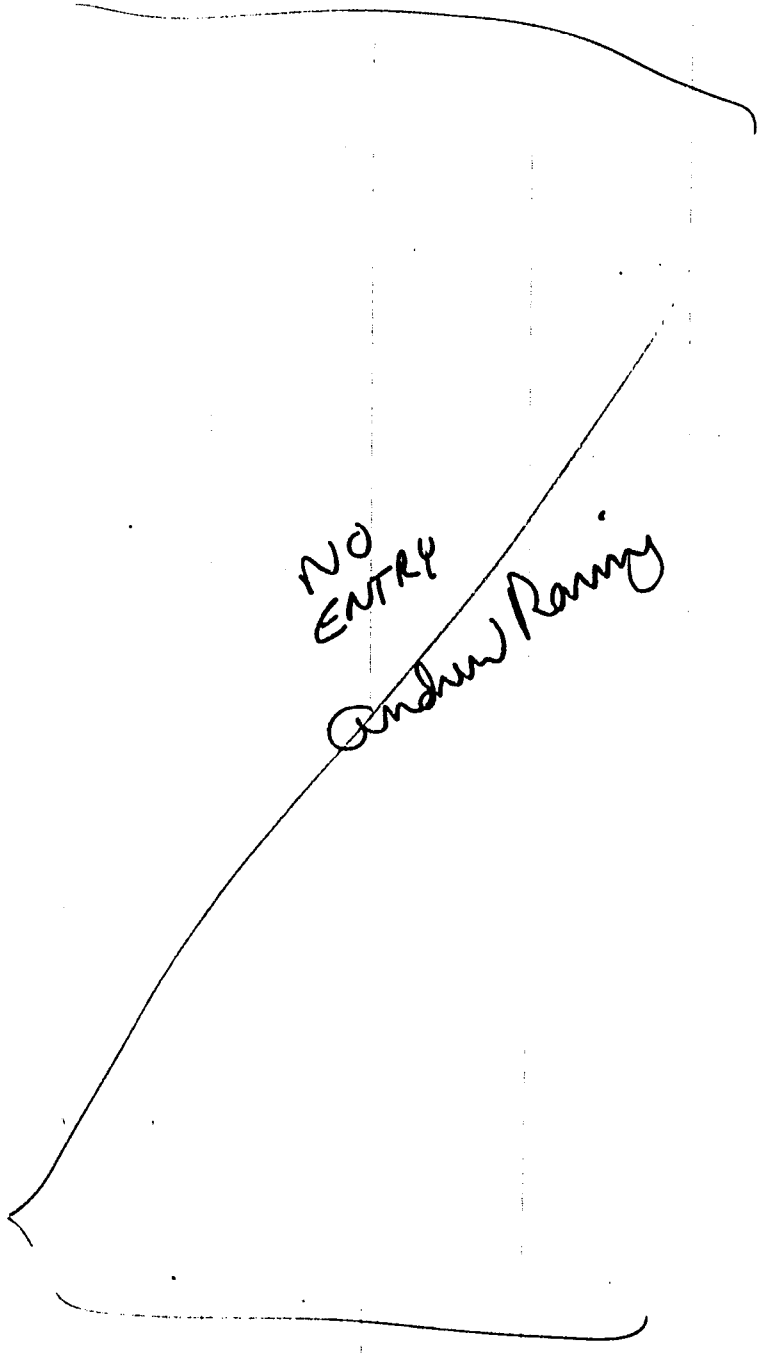
3-5 grayish brown (2.5Y 5/2) clayey silt, dense, crumbly. Sampled

5-7 ft No recovery (Sand?) wet

1135 04-004PS NE corner North of Guard house

0-1 ft light brown & mid yellow brown Fill dirt - sandy, with stone

Andrew Ranny



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Andrew Ramig

11/9/94

04-004 PS (cont.) Wet at @ 2.5 ft
punch to 4 feet for water sample
after lunch PID erratic. 2nd PID has
battery problem - move to 04-024PS
at ditch SE corner of Gasoline AST's
0-1 ft (AR) ~~silty lt yel-brown plastic clay~~ dark brown silty clay loam (Top Soil)

1440 04-031PS near picnic table, center of bus

(Punch 04-004)

1-3 (AR) dark brown silt loam, with
PID=12.8ppm pebbles - fill Sampled No Odor
3-5 dark brown silt & lt yel-brown dense
plastic clay - water v. slow
to enter hole

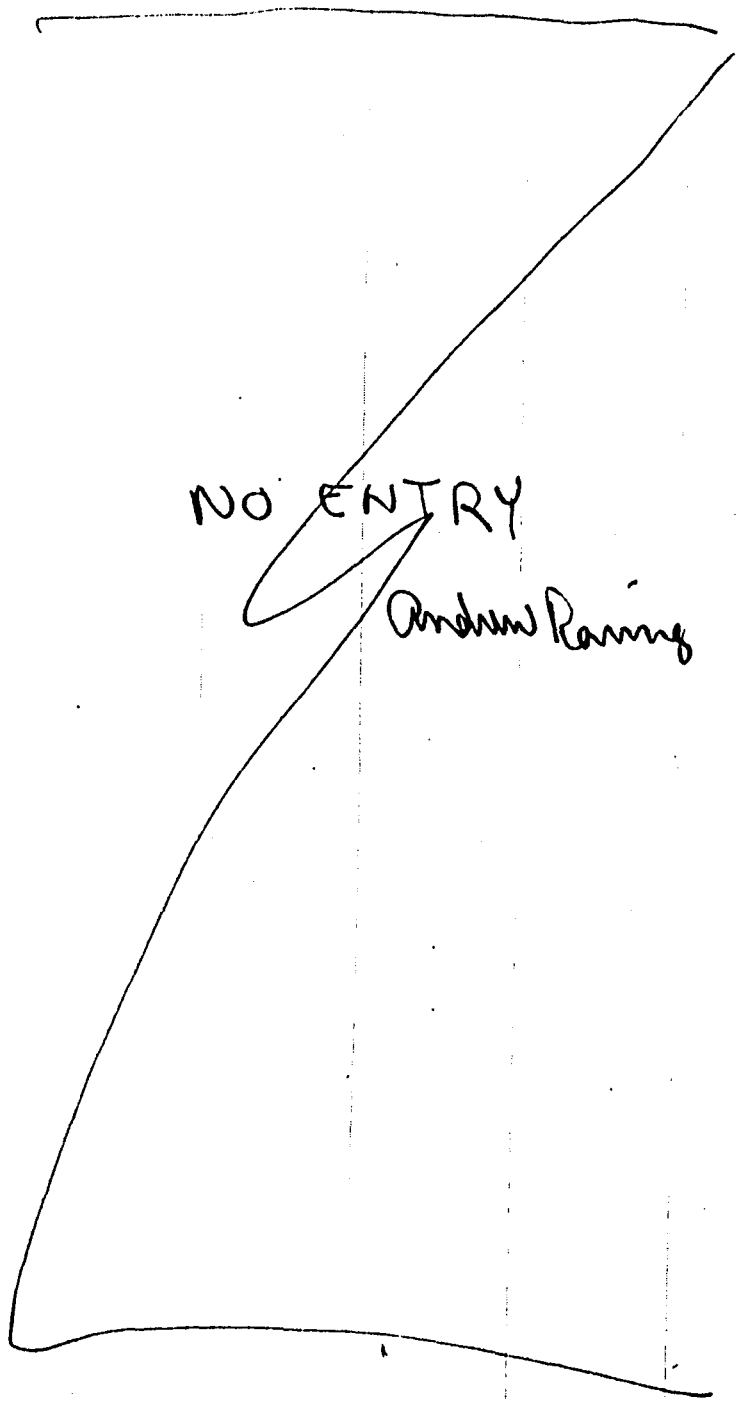
04-031PS

0-1 2.1 ppm PID in hole / 5.9 in sample spoon
0-3" Topsoil dark brown, roots
3-7" med. yellowish brown silty sand, loose.
7-12 dark brown silty clay with pebbles = fill

1-3 ft 3.2 ppm PID in hole / 9.7 in spoon
(AR) dark olive (5Y 2.5/3) clayey silt
massive & dense. Sample (full)

5-7 Ft not enough recovery 2 sleeves
lt olive brown (2.5Y 5/3) clayey sand.
only 1 GRO no other stats. Got water

Andrew Ramig



11/2/94

04-032PS

0-1 ft dark greenish black topsoil clayey silt. mottled, rare pebble - fill

1-3 ft firm, dense clayey silt

PID = 13.4 dark olive light olive brown (2.5Y 5/3)

5-7 no recovery, in water - (Sand?)

to water 8.2' from T.O.P.

2.6' Pipe above GL

∴ water is 5.6 Below GL

04-033PS 11/3/94

SE corner of plane pad at road intersect.

0-1 ft 7" recovery - Top soil, black 4" 3" of md. yel.-brown clayey silty sand with pebbles

O = PID

O = PID in hole

1-3 md yel-brown, silty-clay. Topsoil in top few inches - mixed textures (Fill?) Sampled.

3-5 FT yellowish olive, clayey sand

PID = 0.2 sl plastic - Mixed with Sand.

No odor - No PID Sampled 7:25

5-7 FT No recovery.

water 5.1 ft below GL - Sampled 7:55

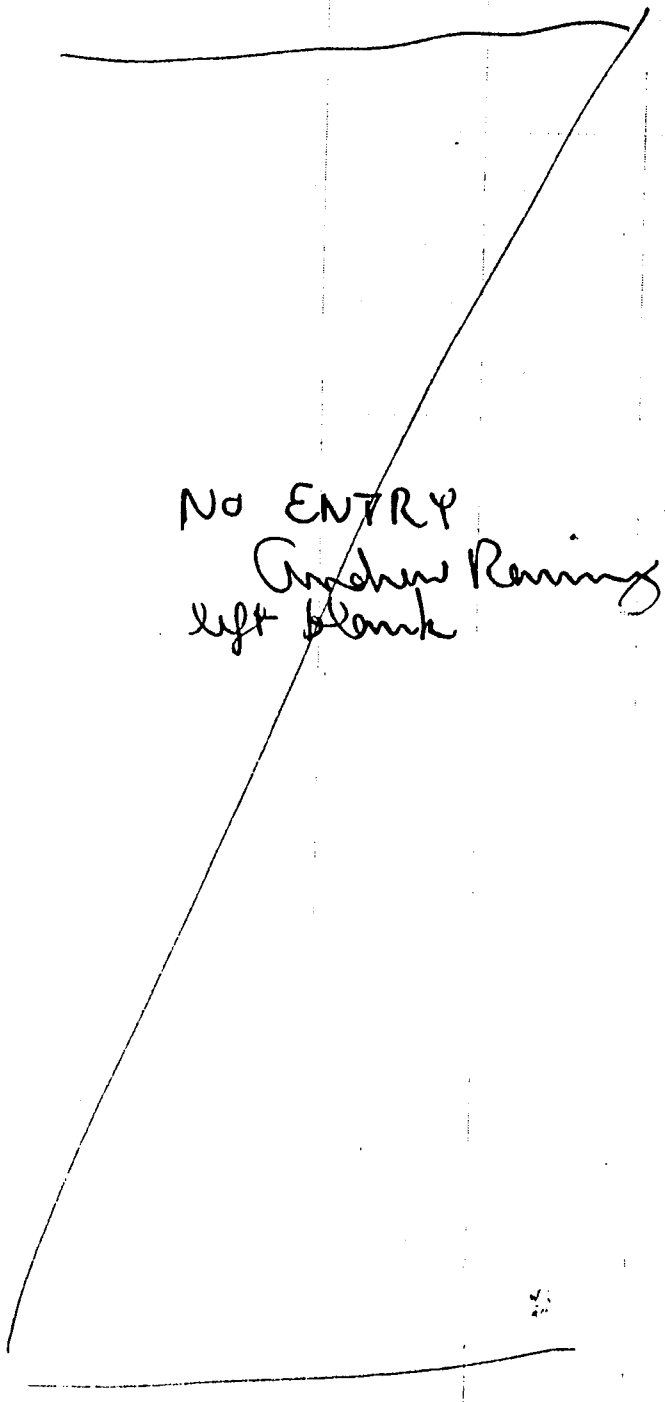
04-034 PS in front of admin bldg in Street

0-1 ft Pavement base Sand & pebbles, lt brown

1-3 ft dense olive clay. Sampled; PID = 0

Andrew Ramsey

11/3/94



04-034PS PID=0

3-5ft dense olive clay. MS/MSD samples

5-7ft sand catcher - full recovery, damp clayey Sand, yellowish (AR) olive brown cohesive, not plastic (10YR5/6)

Water at 6.3 B.G.L. water for GC

9:30 04-037PS top soil

0-1 ft dark brown 10YR3/3 silt loam, SAMPLED @ NO PID

1-3 ft (yel-brown 10YR5/4) silty clay, dense

5-7 ft coarse sand, lt yel. brown (2.5YR6/3) poorly sorted, with silt. SAMPLED

water 5.15 B.G.L. No odor No PID.

10:18 04-036PS 0-1 ft → mottled olive & dark brown, clay, silty. with silt loam topsoil above, wet. dense & plastic

1-3 ft WET dense clay as above -

PID=0.1 silty clay at base - SAMPLED

0-1 ft primary colr = gray (5Y6/1)

Water level = 3.04 B.G.L. Sampled for GC

11:30 to Sample 04-001PZ

purged once. work plan changed says Mark 7.9 to GW from T.O.P (Top of Pipe) 6.7 B.G.L. Took all samples

Lunch - need to resample DOR soil from 10/13 due to lab screw up.

left blank

Andrew Raring

(55)

1/13

04-020 PS redo DRO (AR)
1-3 ft & 5-7 ft 13,25

04-023 PS 1-3, 3-5 MS/MSD, 5-7 sampled for DRO

04-027 PS (1440) sampled 1-3 & 5-7
1-3' also for GRO

04-028 [1510] 1-3' silty clay, dark gray to 2'0" 2'8" 6 3/4" olive gray sand reeking with gasoline odor
5-7 interbedded coarse sand and plastic clay - at about 6' there is an inch of black stained sand (gasoline) above 4 or 5 inches of pure clay - Sand below clay is not particularly odorous, or discolored.

3:40 to 04-002 PZ for sampling
far side of ditch; North side
Got everything but adequate PAH
4:22 to 04-003 PZ South on W of ditch
for VOA only. Bailed dry at installation
plugged with sediment at about 8 ft
strong odor - No film (AR) seen

(AR)
(AR)

Andrew Raring

Running 11/4/94

04-001MW SW Corner of north 40.

0-1 fill & gravel 2/4/5/6

2-4 Sample Clay & fine br. Olive brown plastic, dense

4-6 same Olive clay, lustrous Black mottles Sandy clay ltbrown base with thin clayey sand lenses No GC sample 4-6'

6.5-T.D. just below 6ft est 7ft - sandy sand cuttings, light grayish brown. Water est. 6ft after 2-4 sampled, Jeff cancelled further sleeve sampling, per Workplan - will take only a GC for Mark and PID in Spoon cap.

TD = 18' 3" (Total Depth) in 1 gallon plastic

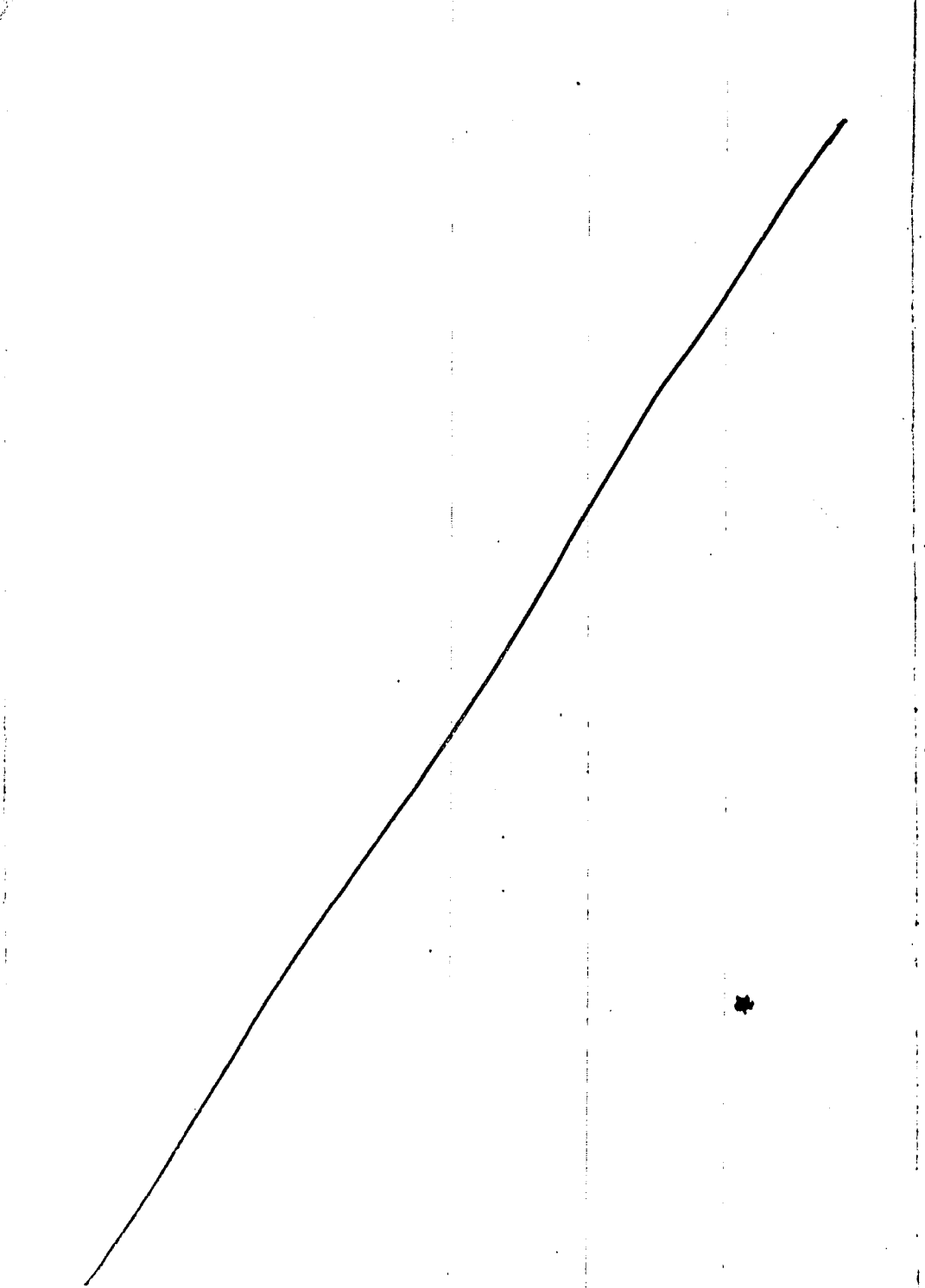
15' — Sieve sample for Grain size analysis taken from cuttings grab "Loon Shit" in drillers terms - clayey sand (orV/V)

04-004MW south of clinic

0-1 brown silt loam top soil.

A) 1-3 Spoon 3/5/5/6 lt olive gray (5Y6/2) silty clay, no vis. struct.

B) 3-5ft 3/3/6/8 interbedded Sandy clay and clayey, course sand. w pebbles yel-brown (10YR5/4) No odor



(57)

11/4/94

AR 04-0014MW

C) 5-7 ft (4/6/8/11: blow counts)
all Sand, coarse at base
dark yellowish brown (AR) (10YR4/6)

D) 10-12 ft (2/4/6/9) dark gray (5Y4/1) Sand, coarse at base with many black mineral grains, slightly in part. Flowing up auger around center plug bit. drilled to 20 ft. (AR)
center bit temp. stuck - freed & moved slowly

Called John late AM with Jeff - Ruth had wanted GW level map first. We didn't have elevations survey data back plus - GW depths in strata probe holes very variable, bouncing from 2.5 to 7.5 below surface. clay/sand shallow strat means local water levels - high if sand present, low otherwise. Called Ruth - explained. She (and John) thought MW-2 should be moved N - we did that. Jeff faxed Ruth a revised MW loc. map. Had faxed John the 1st version - Later, base engineer reported that there was 5 ft difference in water levels beneath opposite corners of new hangar. Confirms notion of uselessness of shallow levels for regional water table determination

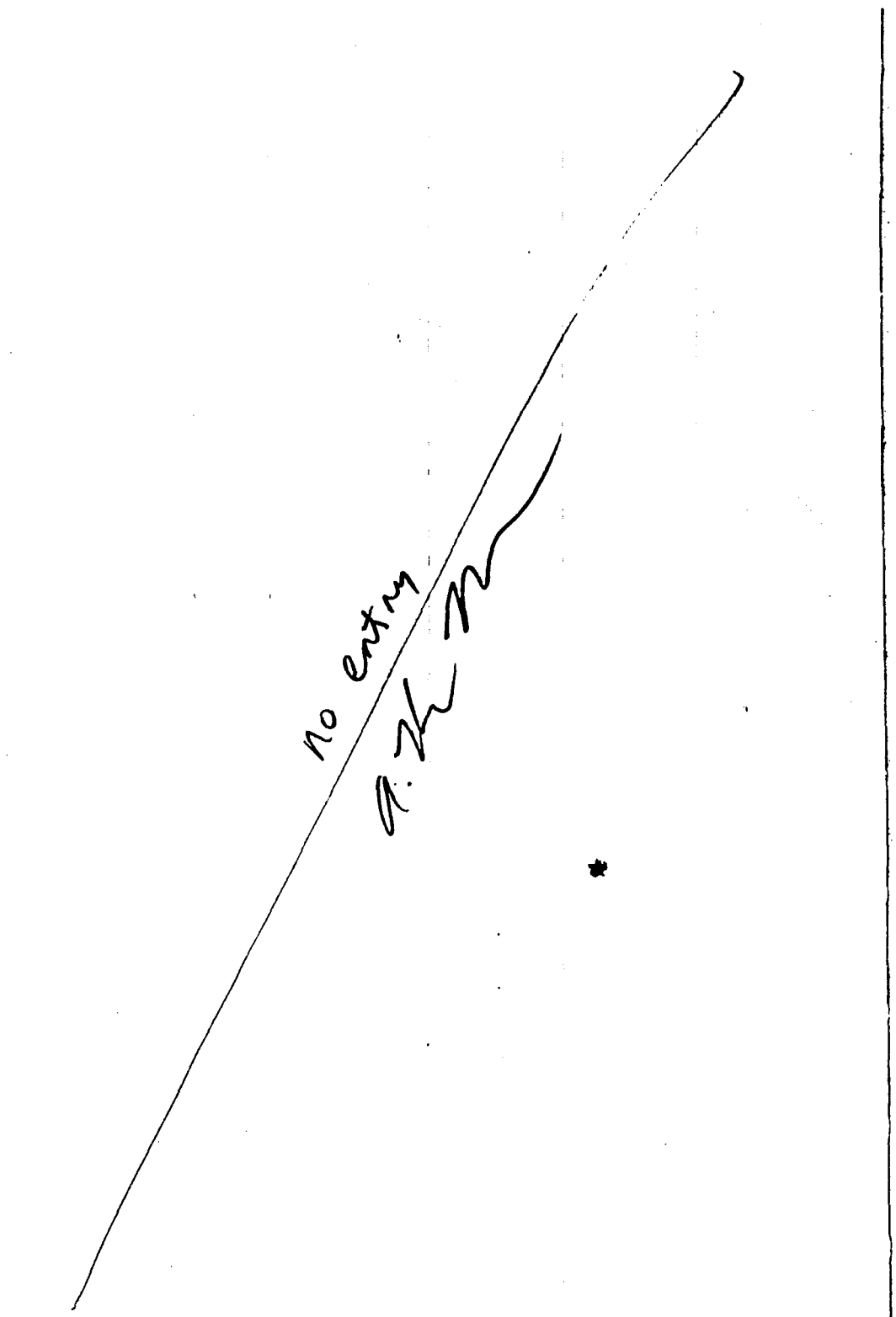
Andrew Rarig

DRILLING CONTRACTOR

OSI
Environmental, Inc
414-857-6772
Rig = Diedrich 50 (D-50)

Driller: Tim CELICHOWSKI
414 351-8020 = Milwaukee Office
fax 351-8025

04-004MW after lunch - supplies have arrived
Read work plan Re: flush a above ground comp.
and talked with Captain at base Engineering.
She prefers all flush mount wells
at well - screen & casing to 17' BGL
(BGL = below Ground level)
sand to 5ft 5-17 course qtz sand
with 1 bag of fine sand above
screen (screen: 7 to 17 ft)
1.8 Pt of Bentonite slurry.
04-001MW Completion start 1455
bottom at 17.7 lifting augers pulling pipe -
Gridged at base. 1st flight off - pipe free
fell to 19ft added sand to raise to 17ft



7-NOV-94 Cloudy, cold, hi 50s

04-005 MW Driller: Tim

2/4/4/6 1-3

3/3/7/9 3-5 CELICHOWSKI, w/OSI ENV, Inc

1-3 R=75

0-15" Clay, dry, brown

15"-16" Clay w/sand, brown, dry

3-5 R=80

0-3" clay, dry, brown, some silt

3-6" sand w/clay, coarse, gray

6"-16" Clay, dry, brown

5-7 3/5/8/12

R=95

Clay, brown, dry to slightly moist. Large I-II 1-3cm gravel pieces.

10-12 3/3/6/10

R=100

Same as above

Well completed as MW

Rig stuck in mud

04-002MW

1035 Began prep for drilling 04-002MW

1-3' 4/6/8/8

R=75 PID=0.8

2"-12" Clay, w/ silt, sand (fine → med) & gravel (1-3 cm), dark brown & light brown

0-2" Topsoil, loam fill

5-7' 2/1/2/3 R=45

Clay, very plastic, gray-green

Some fine sand (>30%)

10-12' 1/2/2/6 R=80

clay w/ sand (>30%) gray, wet

some gravel pieces (1-3cm)

Well Completed { all previous: 16-10' screen; 17-8 sand w/ fine on top 6"; 8-4 slurry

04-003MW

1-3' 2/3/5/7 R=50 PID=0.0

Clay & ~~silt~~ silt, some fine → med (30-~~50~~ 20% sand, gray to black, dry

↳ in some 1" intervals

5-7 2/2/2/4 R=50 PID=0.2

clay, strong hydro odor,

green-gray, some silt & sand

slightly moist

10-12 5/6/7/9 R=75

PID=1950

10-12' Course sand & gravel (~1mm) wet, dark gray (~80-90% sand), strong hydro smell.

Well Completed

~~6-16'~~ 6-16' BLS screen
2-~~4~~ BLS slurry
4-17 Sand

Ambient PIDS

04-003 MW 1-3 = 0.0
5-7 = 3.8
10-12 = 537.0

END OF DAY

8 NOV 94

0600 Arrive at site, cloudy, cold high in low 50s'

0630
04-001 MW - Purged & Sampled
TOC → water = 7.01'

0730
04-004 MW - Purged & Sampled
TOC → water = ~~5~~ 7.52'

0915
04-003 MW - Well Developed
TOC → water = 5.64'
- 6 gals removed -
- well smelled bad!
- free product visable

PID at well entrance = 183

1045
04-005 MW
TOC → water = 17.24'
TD = 20.5'

04-002 MW - Well Development

TOC → wat = 8.20

PID = 0.0

Removed 6 gals

1415
Cleaned out van to start shipping out supplies.

END OF DAY

A. K. M.

9 Nov 94

0600 Arrived at site

Weather: cloudy, rain, cold
hi expected 46°F

0645
Collected QA/QA samples:
- one equipment blank
- not enough sample bottles for a field blank, ~~because~~ a field dup will be collected instead because more important sample.

04-005 MW

PID of well = 4.1 ppm
at time of opening

TOC → water level = 16.31'

VOL	pH	TEMP	COND
1 gal	6.91	53.6	8.13 X100
2 gal	7.36	53.4	9.00 X100
3 gal	7.20	53.8	9.02 X100
4 gal	7.42	53.2	9.03 X100
5 gal			

04-003 MW

PID in well (at time of opening cap) = 1081.0 ppm

TOC → wat = 5.66'

VOL	TEMP	pH	COND X100
1 gal	52	7.04	12.67
2 gal	52.4	7.06	12.66 X100
3 gal	52.6	7.06	12.65 X100
4 gal	52.3	7.09	12.68 X100

6 gals removed from well

Breathing zone PID upto 20 ppm
- strong odors in well area
- Env. sample collected
- Dup sample collected

1015

04-002 MW

PID at opening of cap = 0.5 ppm

TOC → wat = 8.14'

VOL	TEMP	pH	COND X100
1 gal	53.7	7.13	13.31
2 gal	53.8	7.10	13.37
3 gal	53.8	7.08	13.39
4 gal	53.5	7.06	13.35

- 6 gals removed
- Env. sample collected

04-005 MW

1100

TOC → wat = 17.47'

PID at opening = 12.5

- env sample collected

1130

Feeling nausa & headache from 1000 to present time.

1130 Lunch

1200 Return to site, began to box up supplies for Fed Ex & Freight shipment

1500 Returned to Hotel

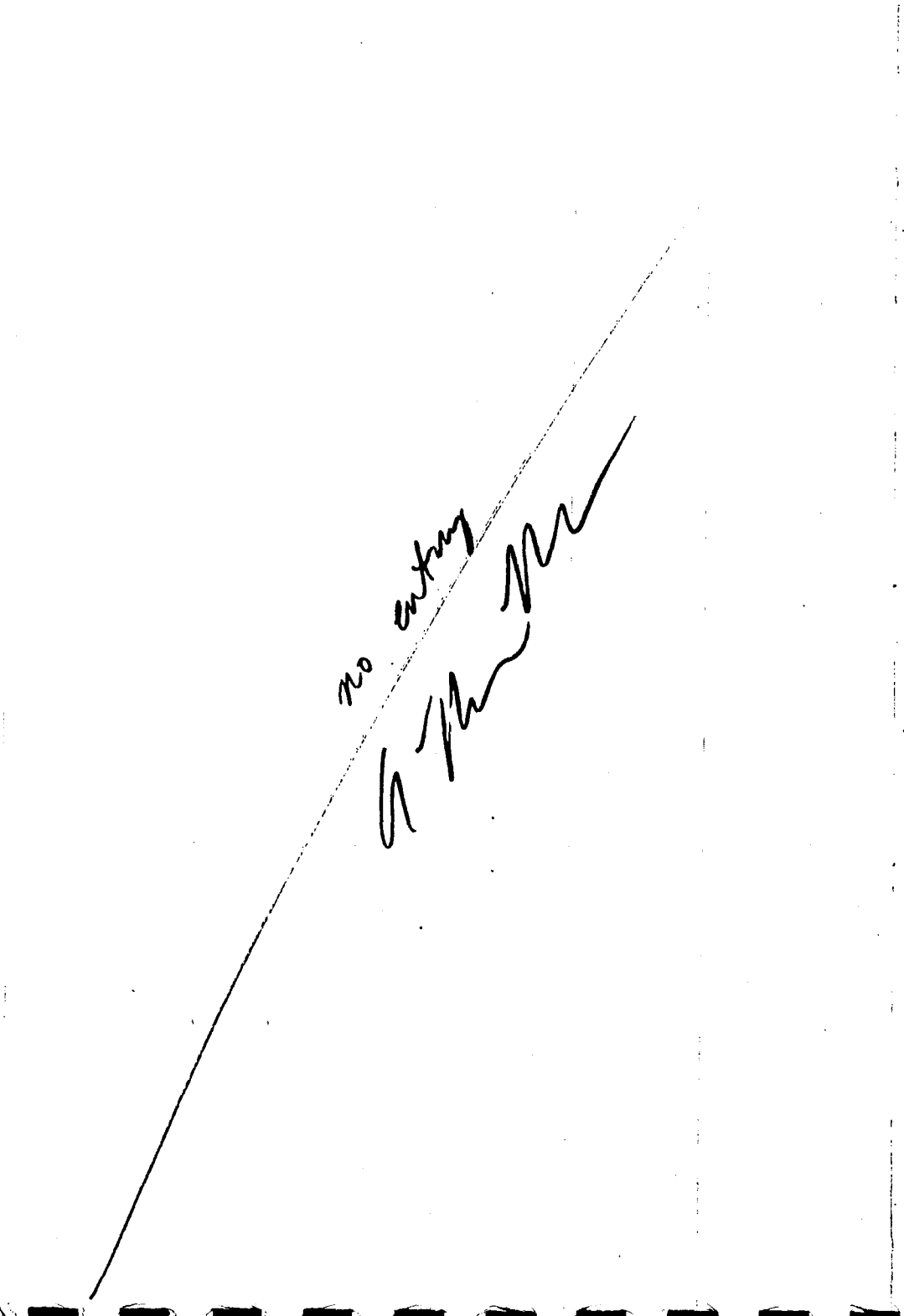
1530 Took Mark to Airport

1600 Return to site, discussed drums, etc with Jeff

1820 Return to Hotel

END OF DAY

no entry



10 NOV 94

0530 Met Jeff, breakfast and discussed day plan. Realized that Marco failed to send the Hermit Data Logger manual.

0630 Return to Motel call Marco. Answering service took message.

0800 Marco returned call and will fax parts of manual.

0900 Recieve part of fax. Call In-Situ to get help on programing logger. Tell Ryth about illness yesterday at 04-003MW

1000 Jeff informed me of Johns desire for me [illegible]

n. entrus

1215 Arrive at Milwaukee airport to return to S.A.

Health & Safety Briefing

- Today's Task
- Required PPE - ear prot along flight line
- Potential Hazards
  - physical (kill switches)
  - exposure
- Today's Weather
- Today's Evacuation Plan
- Site Safety Equipment/ Nearest Hospital
- Special Topics - red line on apron
- 911 (cellular) in brief case (black)
- FOD

Well Vol = (.0408)(.3/4")^2 x (Ft. H_2O)

= (0.0408)(.5625) x (Ft. H_2O)

= (.2295)(Ft H_2O)

Specific Cond: ± 10 mmhos

pH: ± 0.1

Temp: 0.5°C

Field Blank

- only after 48 hrs (new event)

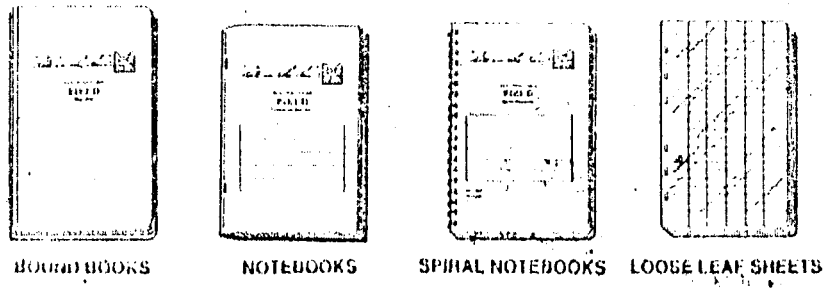
Substitute for some equipment blanks

"Write the Rain"®

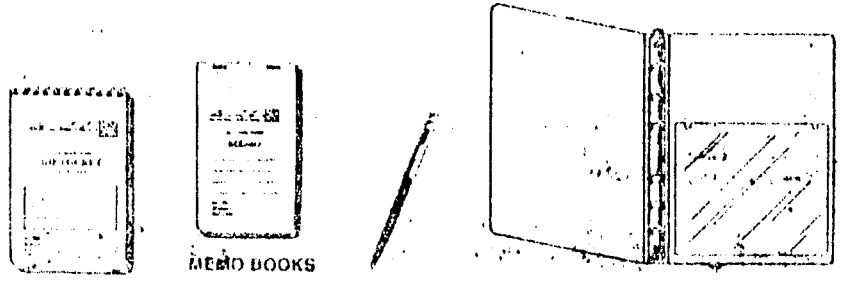
ALL-WEATHER WRITING PAPER

Outdoor writing products . . .

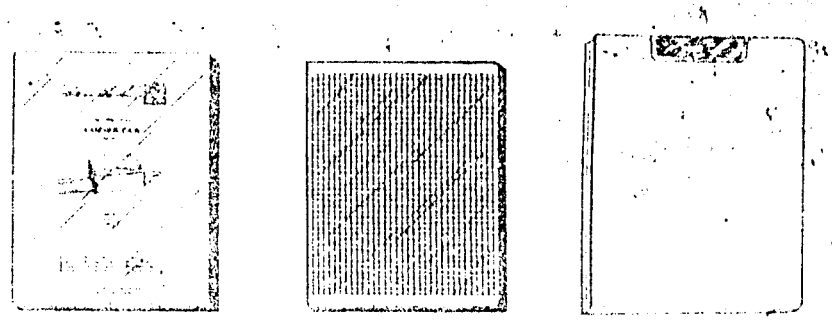
. . . for outdoor writing people.



BOUND BOOKS NOTEBOOKS SPIRAL NOTEBOOKS LOOSE LEAF SHEETS



SPIRALS MEMO BOOKS ALL-WEATHER PEN RING BINDERS



COPIER PAPER GRID SHEETS POLY-CLIPBOARDS

Field data . . . if it's worth collecting, it's worth protecting.

MADE IN USA

MEASUREMENT CONVERSIONS

TO KNOW	MULTIPLY BY	TO FIND
LENGTH		
inches	2.540	centimeters
feet	30.480	centimeters
yards	0.914	meters
miles	1.609	kilometers
millimeters	0.039	inches
centimeters	0.393	inches
meters	3.280	feet
meters	1.093	yards
kilometers	0.621	miles
WEIGHT		
ounces	28.350	grams
pounds	0.453	kilograms
grams	0.035	ounces
kilograms	2.204	pounds
VOLUME		
[illegible]	29.573	milliliters
[illegible]	[illegible]	liters
[illegible]	[illegible]	liters
[illegible]	3.785	liters
[illegible]	0.033	fluid ounces
[illegible]	1.056	quarts
[illegible]	[illegible]	gallons (U.S.)
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

[illegible]	Millimeters (mm)
[illegible]	[illegible]
.0625	1.5875
.1250	3.1750
.0156	4.7625
.0208	6.3500
.0260	7.9350
[illegible]	[illegible]
.0417	9.5250
.0521	12.700
.0625	15.875
.0729	19.050
.0833	22.225
[illegible]	[illegible]
.0833	25.400
.1667	50.800
.2500	76.200
.3333	101.60
.4167	127.00
[illegible]	[illegible]
.5000	152.40
.5833	177.80
.6667	203.20
.7500	228.60
.8333	254.00
.9167	279.40
1.0000	304.80

ALL-WEATHER WIRELESS

Name: STEVE WILSON
OPERATIONAL TECHNOLOGIES CORPORATION
Address: 4100 NW LOOP 410, SUITE 230
SAN ANTONIO, TX 78229
Phone: (210) 731-0000

Project: GEN BILLY MITCHELL FIELD ANG
MILWAUKEE, WI

D.O. 012/1315-139
CONTRACT: DAHA 90-93-D-0005

TELEPHONE NUMBERS

CONTENTS

PAGE	REFERENCE	DATE
	John's Pager: 1-800-719-6454	
	Jeff Payer: 1-800-591-1354	

MISCELLANEOUS INFO

Local Wx: 936-1212

GRAND Milwaukee Hotel
4747 South Howell
Milwaukee, WI 53207
(414) 481-8000

CELLPHONE UNLOCK: 123

☆ Ask Mike Waskelski about his manual on chemistry (environmental) - a bit outdated, but very straightforward + complete

☆ Need Standardized Rain Gear (incl pants!)

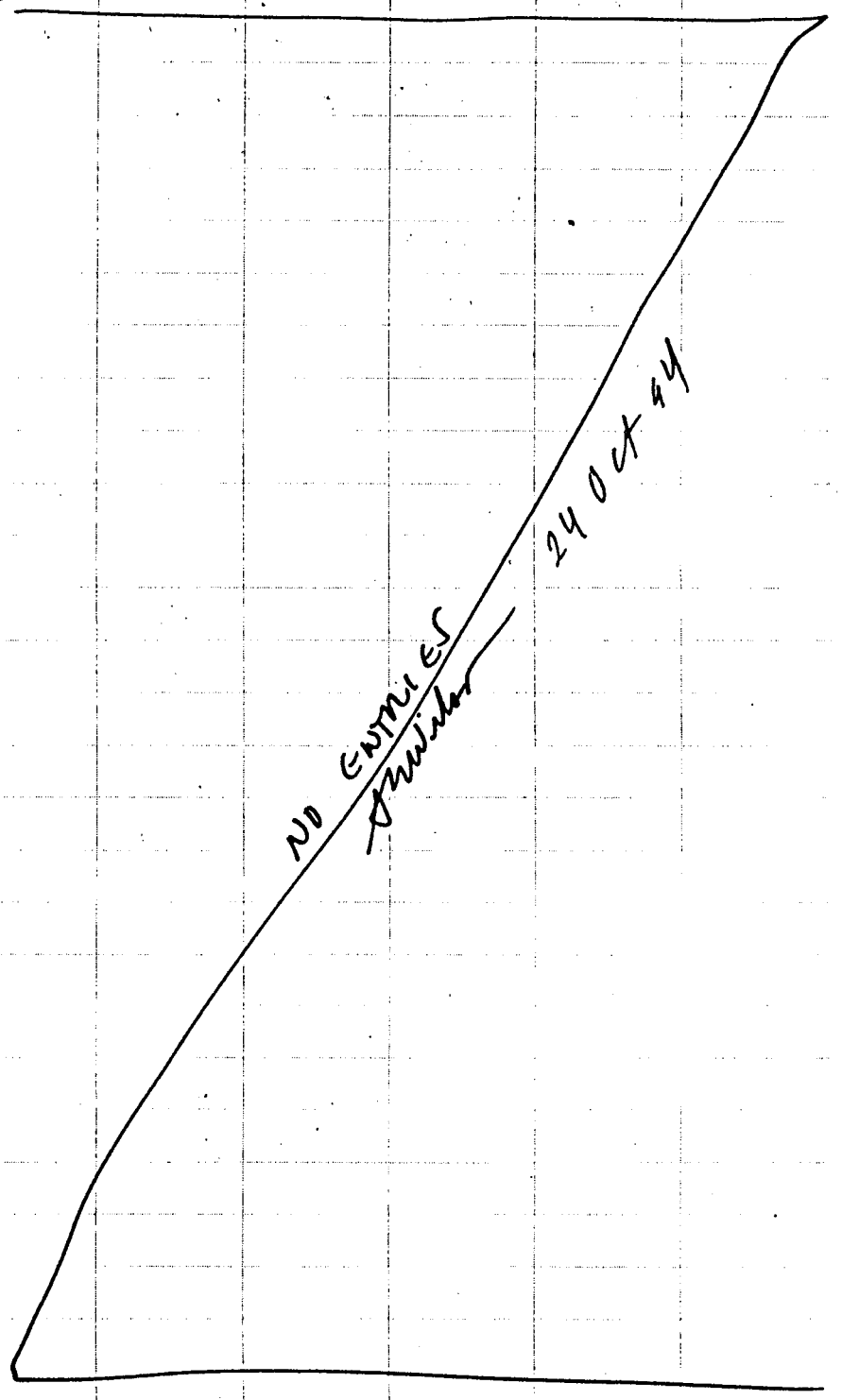
TRUCK: WHITE FORD VAN / ILLINOIS 2818 JR

CAR: Red Cutlass Supreme S / WISCONSIN JJT 388

~~(414) 747-9140~~

CAR: 85242
2M7154

~~AVIS~~
~~747-2266~~
Hertz - 747-5200
Budget -
~~327-1618~~
National: 483-9800



MONDAY, October 24, 1994

WX: Mostly cloudy, breezy, & cooler
Chance of showers or lite snow
Hi lower 50's (52° @ NOON)
Winds ~~West~~ Northwest 15-25 mph
Cooler tomorrow, then warmer rest of the week.

0700- Departed for ANGB

0715- Tailgate Briefing
ATTendees: Brian Niskey Jeff, Ruebin
Craig Hawkins Mark, + Steve
Subjects: √ list items plus FOD hazard (WX, PPE, hazards, Kill switches Exposure hazards, safety equipment)
Concern: Cop escort near taxiway. I suggest we get one @ lest the 1st time

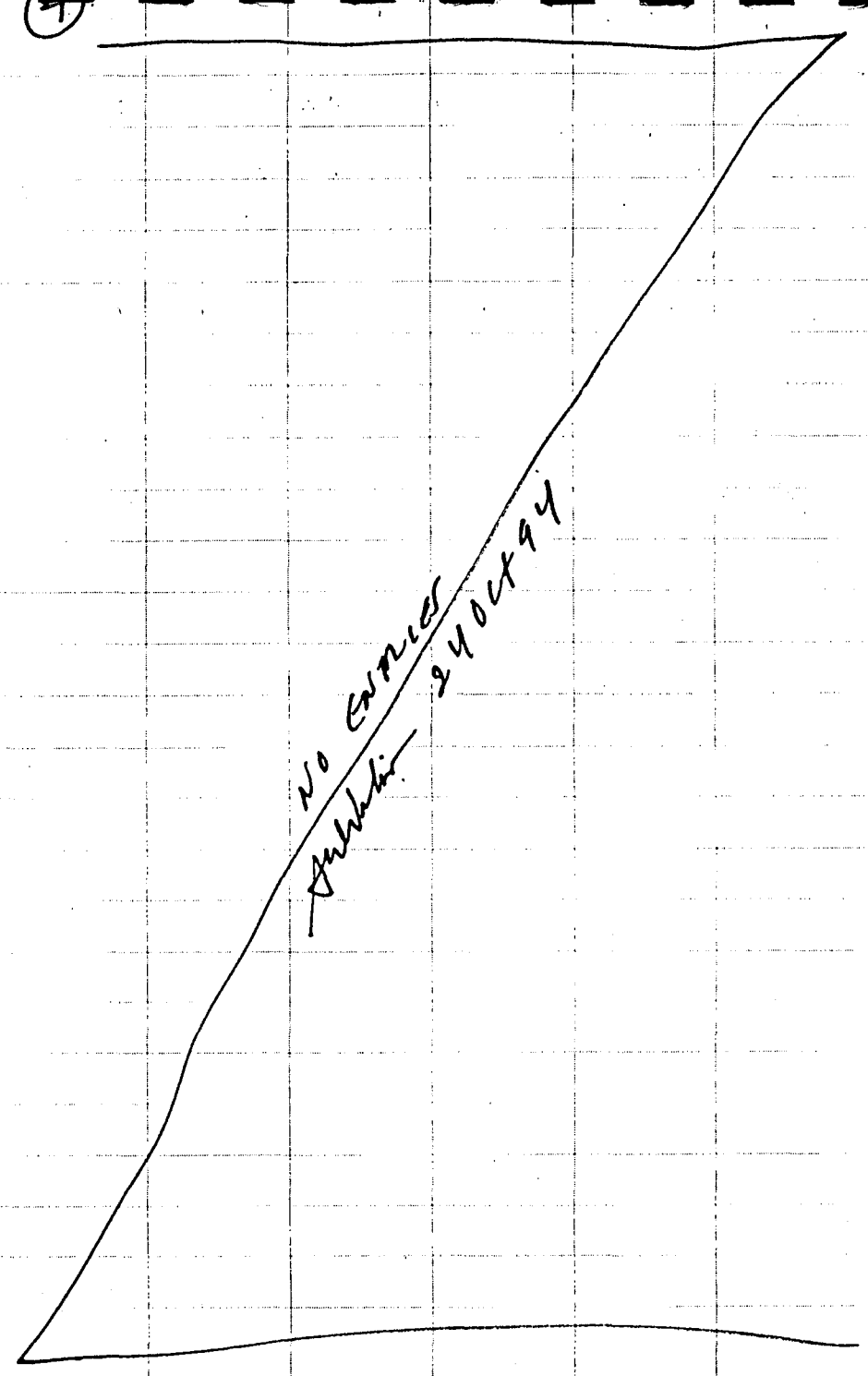
0755- Calibrated PID with Jeff.
NA898Ø204 - Serial No. of Microtip
SN

0810- Calibrated Combustible Gas + O_2 Meter
MSA Model 261 Portable Alarm
Hazco # 6553

0820- Moved to 04-001 PS jfw w/ crew

LAST ITEM

24 Oct 94

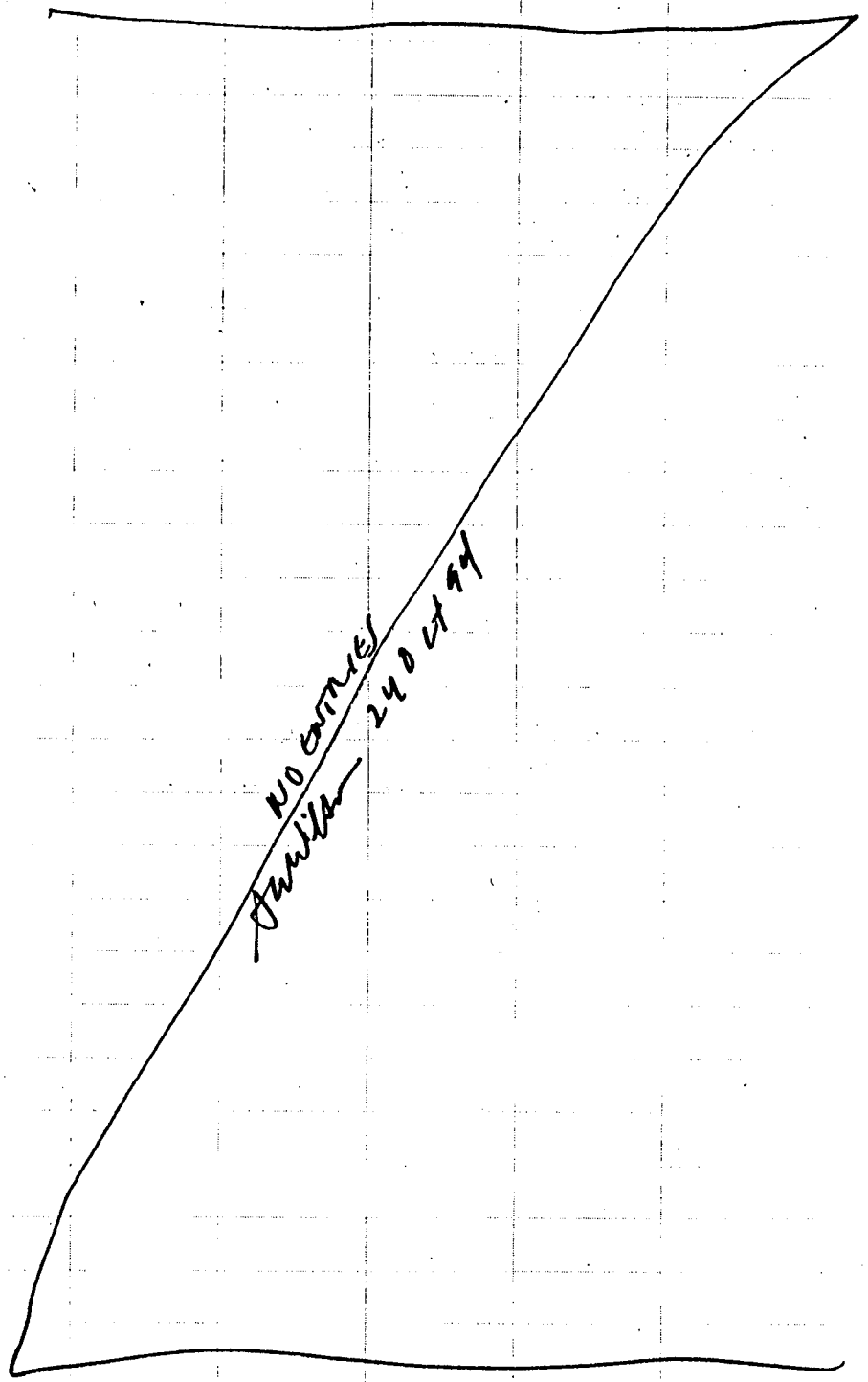


MONDAY, 24 Oct 94

0825 - Ambient background at ~~PS~~ 04-001PS = 2.9 - 3.0 ppm. Can smell aircraft exhaust from nearby
PID of PS-sw = 6.0 ppm - steady
Ambient now reading 4.5 ppm, so well = 1-5 ppm
0848 - Sampling of PS-sw underway.
Ambient air = 2.3 ppm
Breeze is picking up. Est 10-15 mph w/ gusts in 25 m.p.h range.
0855 - Water from PS-sw is barely flowing from pump tubing into sample bottles.
PS-sw appears to be dry.
0906 - OPS complete at PS-001. Moving to PS-005.
0910 - Truck stuck in mud on edge of Bailey's Pond. TEG Truck deep in mud.
0925 - Truck pulled out.
0930 - At PS-005. PID = 0.0 ppm
0935 - Opened PS-005. PID = 0.0 ppm.
Ruben + Brian took H_2O level. H_2O is 2.4 ft BLS.
0938 - VOAs of H_2O taken via stainless bailer. ——— LAST ITEM ———

24 Oct 94

(6)



(7)

MONDAY, 24 Oct 94

1000 - Ops @ PS-005 complete.
1006 - Mark & Craig departed to check out accessibility to PS-004 : There is construction around it.
1015 - Stopped at CSC / SSgt Webber He called Command Post, who coordinated w/ Tower. We have permission to cross taxiway repeatedly. However, FOD is major problem. Taxiway just swept. Make sure we clean tires first.
1020 - Returned to Decon/Staging Area & briefed Mark, Rueben, & Craig. Brian is offsite cleaning tires of Rig. Jeff is offsite coordinating with utility companies
1055 - moved to PS-007
1100 - Setup on site in progress. PID of ambient air = 0.0 ppm
1109 - PID of 1st spoon = 0.0 ppm
1110 - Glitch w/ Stratoprobe — problem w/ drive cap unit/or connectivity
1121 - PID of borehole after withdrawal of 2nd spoon = 0.0 ppm
1122 - PID of 2nd spoon = 0.0 ppm
——— LAST ITEM ———

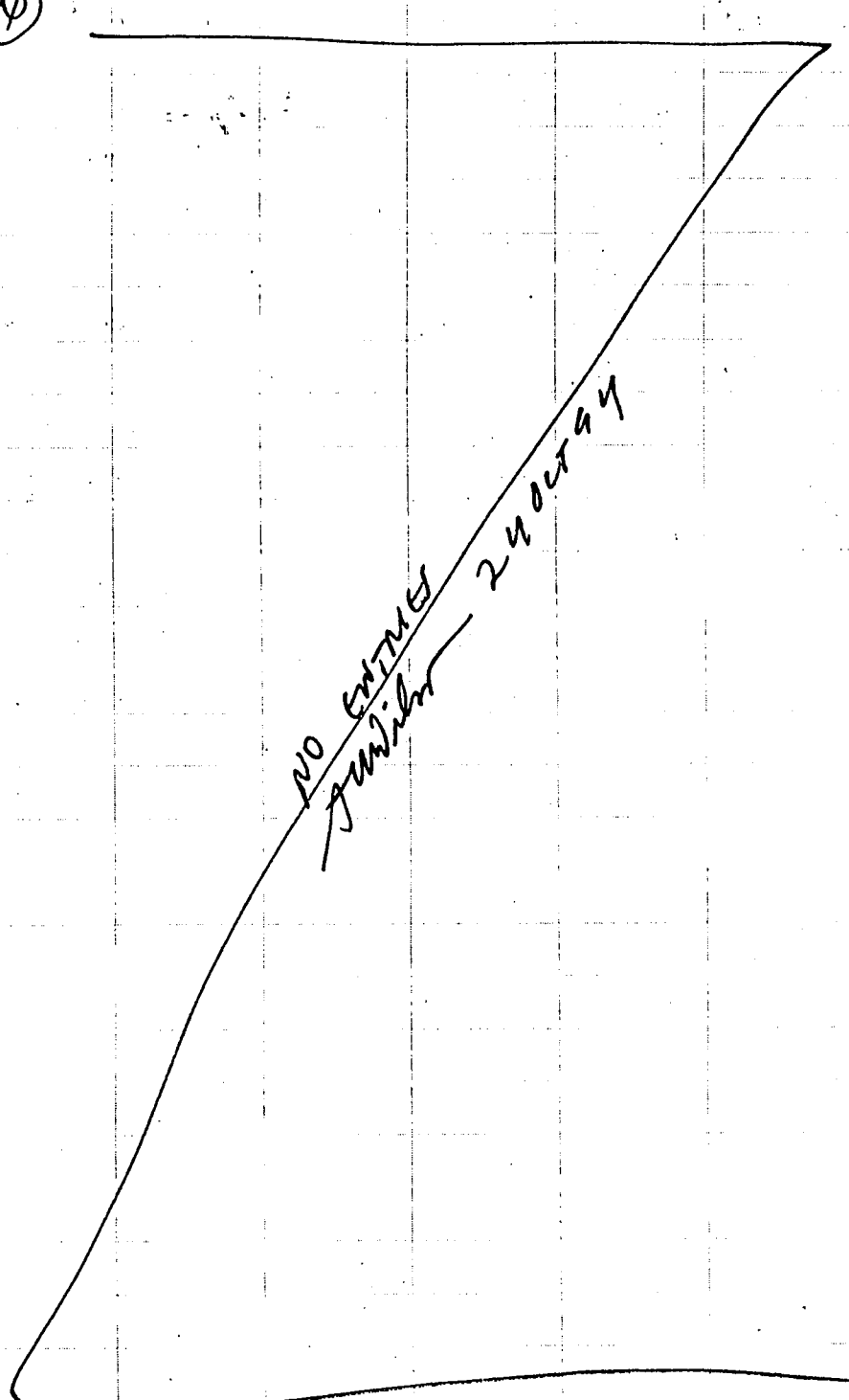
SSgt Webber 24 Oct 94

MONDAY, 24 Oct 94

1143- PID of spoon @ 5-7' BLS = 0.0 ppm
PID of borehole = 0.0 ppm.
1147 - PID of Ambient Headspace of 1-3 ft (PS-007) = 0.0 ppm
1159 - PID of borehole @ 7-9' BLS = 0.0 ppm
PID of spoon = 0.0 ppm
1200- Wind has picked up considerably. Very strong + gusty (est 20 mph +) - uncomfortable for crew (cold + wind)
NOTE: Recovery @ 7-9' very poor. Have decided to move drill rig slightly + redrill (push) @ 5-7' BLS only.
1217- PID of new borehole 5-7' = 0.0 ppm
PID of spoon (1 full tube only) = 0.0 ppm
NOTE: WX is overcast (broken) with very strong, gusty winds. Temp = 48°
Wind Chill = 20°F range!
2 thermometers read 100°C
1230- Began site breakdown
1306- Departed Decon area for lunch
1410- Back onsite at PS-008
1425- Recalibrated PID w/ 75 ppm span gas. Serial # 6553 (Hazco)
1432- Pid of surface-1' = 2.1 ppm

NO ENTRIES — 24 Oct 94

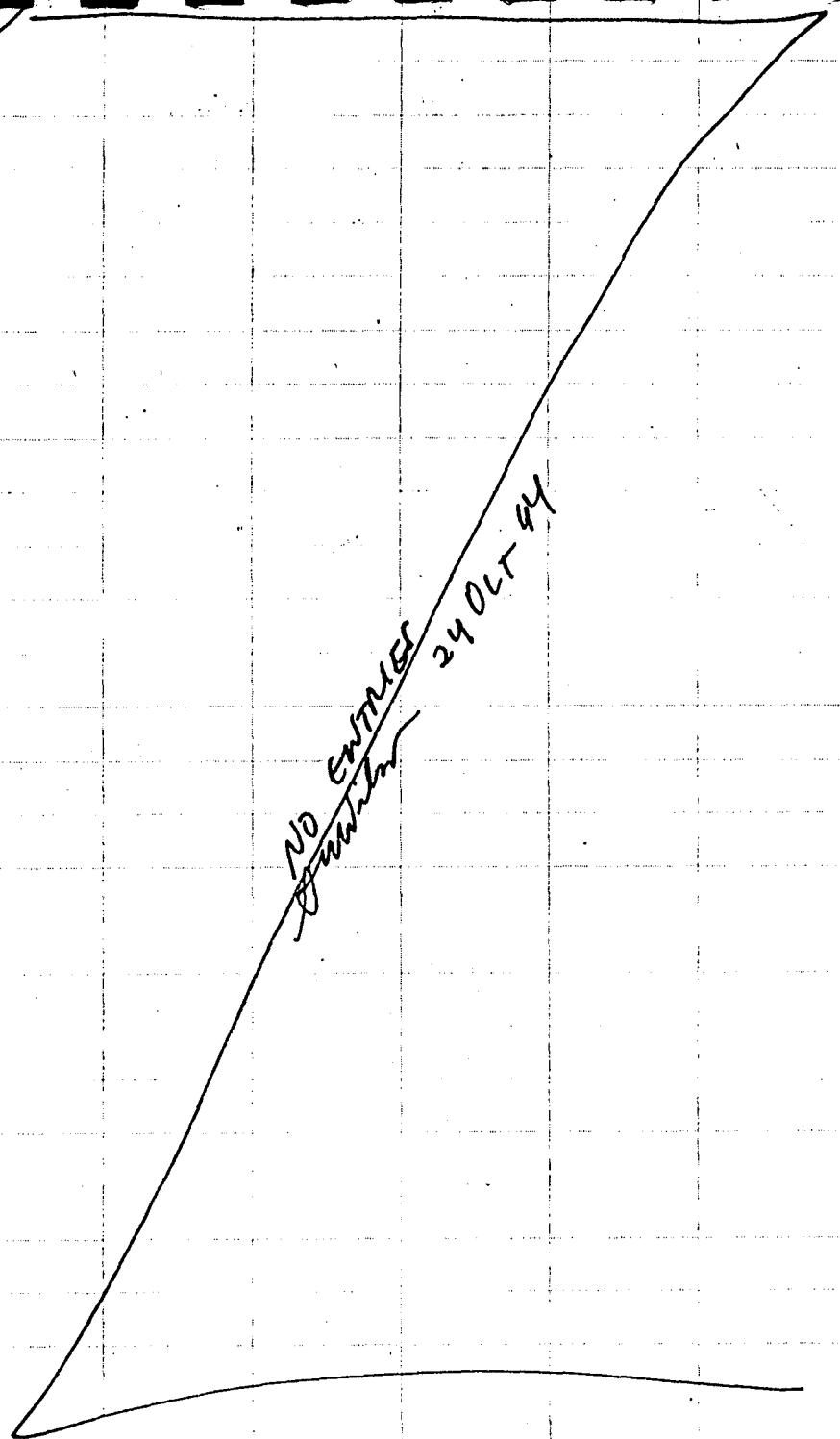
24 Oct 94



Monday, 24 Oct 94

1431 – PID of 1'-3' BLS = 3.8 ppm
1434 – Temp at work table = 46° F with 20-25 mph wind. Total overcast NO PRECIP.
1436 – PID of 1'-3' spoon (opened) = 2.3 ppm
1440 – <u>Amendment TO RECORD:</u> AT Appox 1410, I held H&S mtg – DID NOT LOG. ATTENDEES: CRAIG, BRIAN, Jeff, Rueben, MARK, & STEVE
SUBJECTS: <u>COLD</u>; Present tasks; PPE, kill switches; Wind direction & evac plan; location of safety equipment. Reminder on COLD – get into truck & get warm! Also noted Red Line around KC-135's. Do not cross Red Line!
1443 – Spoon from PS-008 5'-7' BLS only have 6" recovery.
PID of back end of spoon = 4.1 ppm
1447 – Ambient air @ table = 0.9 ppm
1449 – PID of cap on 5'-7' BLS = 6.0 ppm
1452 – Temp has dropped to 42°F – Wind very strong & gusty. <u>It is COLD</u> ....
1456 – Ambient PID at table = 1.1 ppm
1503 – PID of 8'-10' = 13.3 ppm (cap)

24 Oct 94



MONDAY, 24 OCT 94

1505- P.I.D of spoon upon opening (at sample sleeve breaks) = 4.0 ppm
Ambient Air = 1.3 ppm at table
1509 - LEL is still operating, O/K behind rig (downwind)
1520 - Off site - Drillers gone to decon
1615 - Moved to New site PS-009
1620 - Set-up. Ambient air = 0.0 ppm
1621 - PID at Spoon Surface to 1' = 0.0 ppm
1625 - Temp = 46°F - strong, gusty wind
Heavy overcast + dark. Cold
1628 - PID of spoon cap @ 1'-3' = 0.0 ppm
1639 - PID " " " @ 3'-5' = 3.5 ppm
1640 - Temperature = 42° F - windy + cold.
1645 - PID of Borehole PS-009 = 0.0 ppm
1650 - PID of spoon cap @ 5'-7' = 60.1 ppm
1701 - ATHA of Sample from 1'-3' from PS-009 = 240 ppm
1714 - Drillers finished with PS-009
Note: Sunshine for 1st time. Temp = 40° F
1719 - ATHA on soil sample @ 5'-7' = 3,032 ppm! PID recovered to 0.0 PPM

— LAST ITEM —

24 Oct 94

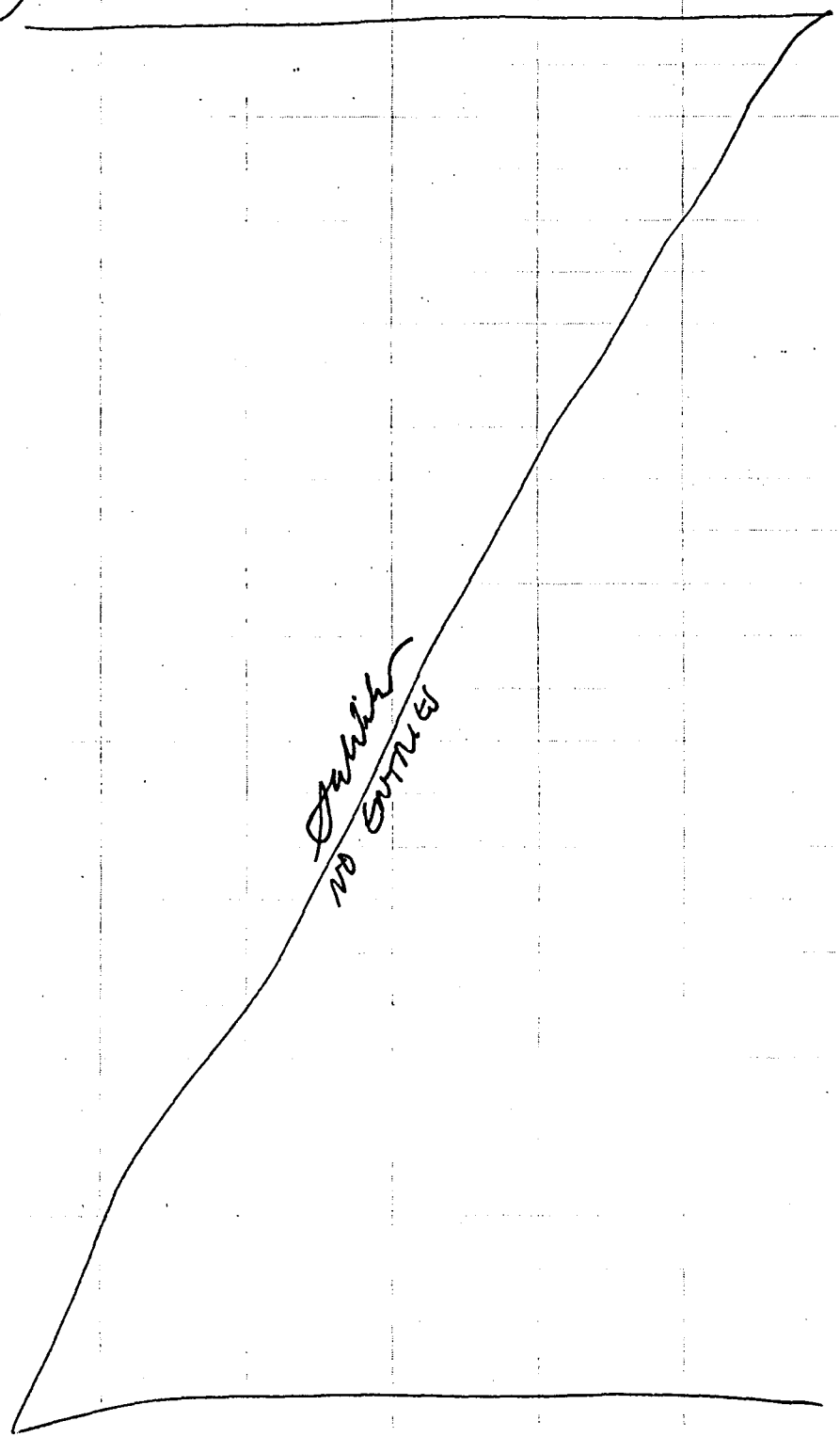
NO ENTRIES
Remainder 24 Oct 94

MONDAY. 24 Oct 94

1720 - Drillers leaving from PS-009
Our crew packed up gear + secured site
1730 - Departed PS-009 for Decon pad.
Note: Craig stopped at PS-009 + PS-008 + PS-007. He placed crumpled Scott towel around pipe in ground. Sprinkled bentonite powder on top. If it rains, bentonite will be hydrated + make seal. Reduces contamination.
1738 - Stopped @ Decon pad to watch drillers clean rig + parts. Our crew located + removed supplies necessary for shipment to lab.
1754 - Mark + Rueben depart base for hotel to work CoC + ice chest.
1800 - Decon water being pumped from drum with bilge pump - into barrel at Decon pad. Barrels secured w/ rings.
1810 - Departed base for Hotel

LAST ITEM

24 Oct 94



WX: Cold + Windy Today. High 44°-45°
Overcast + gray. [WINDCHILL: 13°-18°F]
Winds from W/NW @ 15-30mph
Possible snow flurries or sprinkles.
Tomorrow – liter winds; partly cloudy;
45-50 tomorrow. Forecasted 60's by
Friday

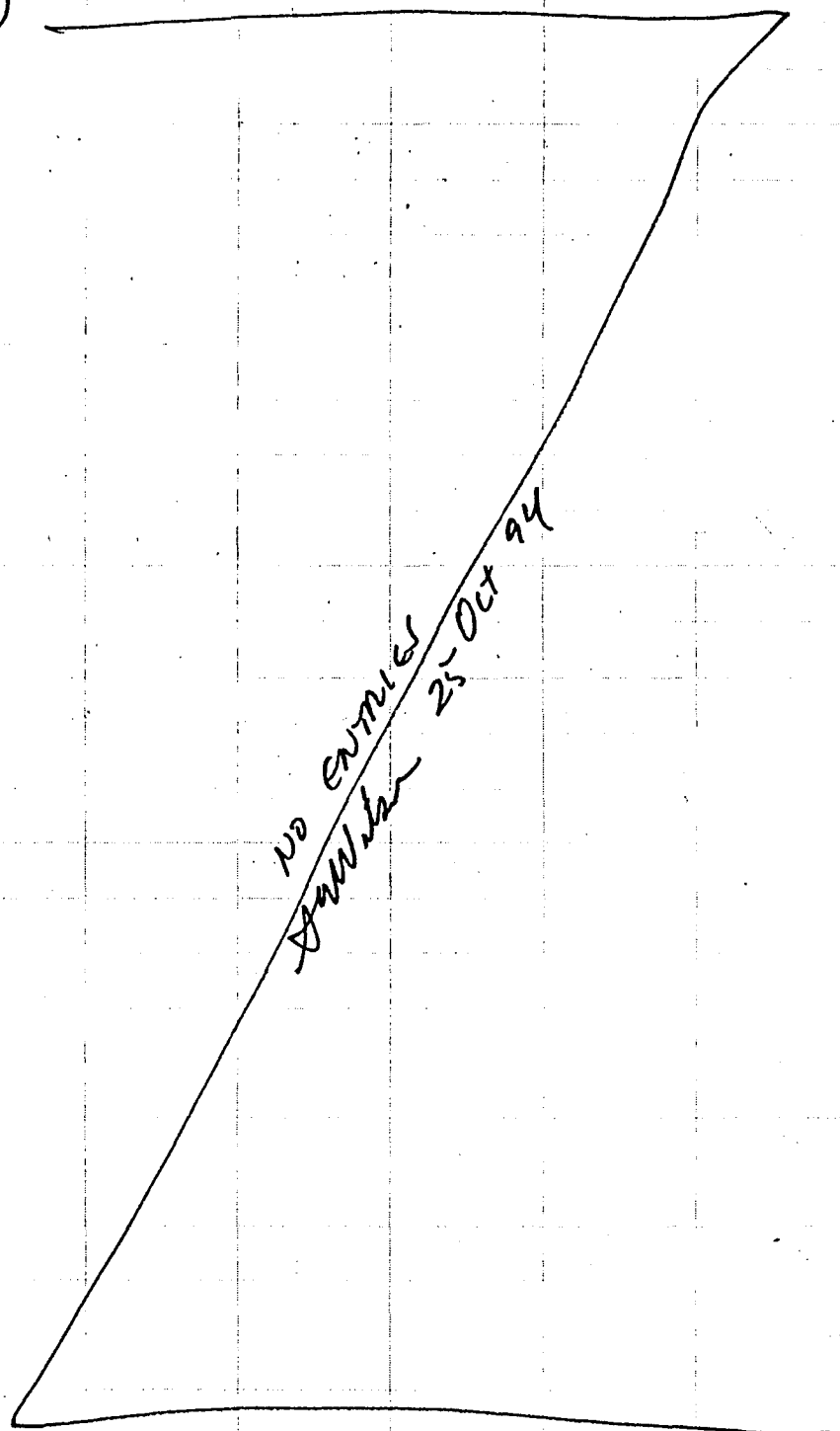
0715 - Stopped at Central Security Control
+coordinated w/ Sgt Smith on Operations.
FAA was concerned yesterday; Sgt Weber
apparently didn't notify them, despite our coordination
efforts. Sgt Smith called Command Post +
discussed. They will tell FAA.

+ New HAZard: will be KC-135 departing this
A.M., plus 2 more tonight. I made
arrangements for the boundary patrol to notify us
prior to engine start, so that we can evacuate.

+We have continued permission to cross
"November" ramp – Sgt Smith called all patrols
+ informed them. The Civilian dispatcher took
my business card + made notes.

+ We should be good to go today, security-wise.
LAST ITEM

J. Whitson 25 Oct 94



TUESDAY, 25 OCTOBER 1994

0730 - Returned to Decon/staging area + briefed the O,Tech team. Drillers are disconning pipe + getting gear together.

0745 - H+S Briefing

ATTENDEES: Brian, Craig, Mark, Jeff, Rueben, + Steve

Subjects: All ✓ items, plus hazard from KC-135 ops. WX is big hazard [I have extra down vest + lined field jacket]. Evac will be laterally (ditch restricts) Safety gear on back of white van. Drillers have fire extinguisher also. I have scanner to monitor NOAA WX.

0810 - Moved to 04-001PS to water sample.

0812 - PIDded PVC upon opening: 0.6 ppm

NOTE: PID is reading Ambient @ 5.2 ppm

0822 - Samples collected (VOCs)

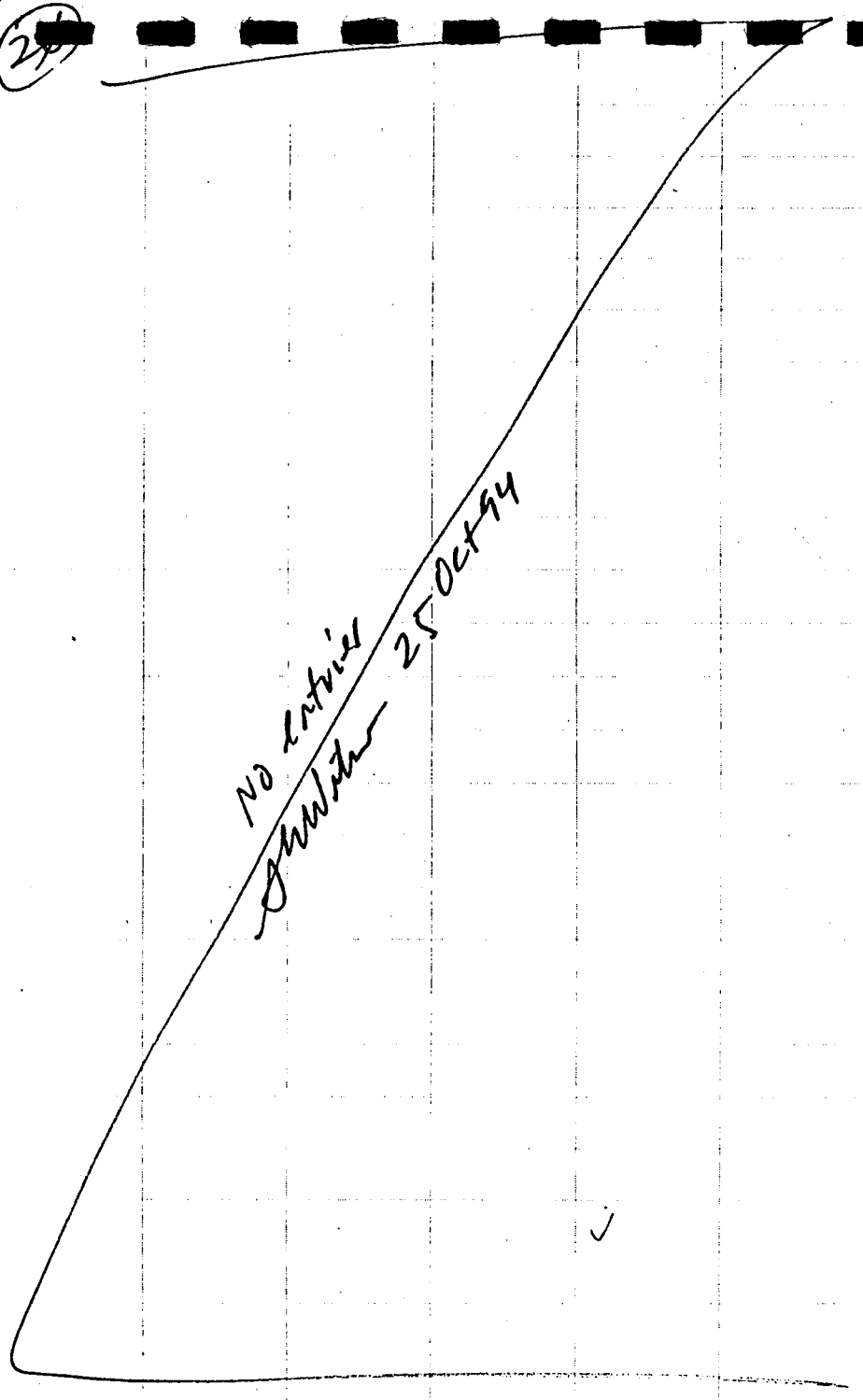
Not much water in hole. Note: only one VOA vial filled. Determined that sampling was completed on this hole yesterday + resampling not needed.

0830 - Moved to 04-007PS

0836 - PID of hole upon opening: 0.0 ppm

Ambient Air by PID: 2.9 ppm

JW Wilson 25 Oct 94



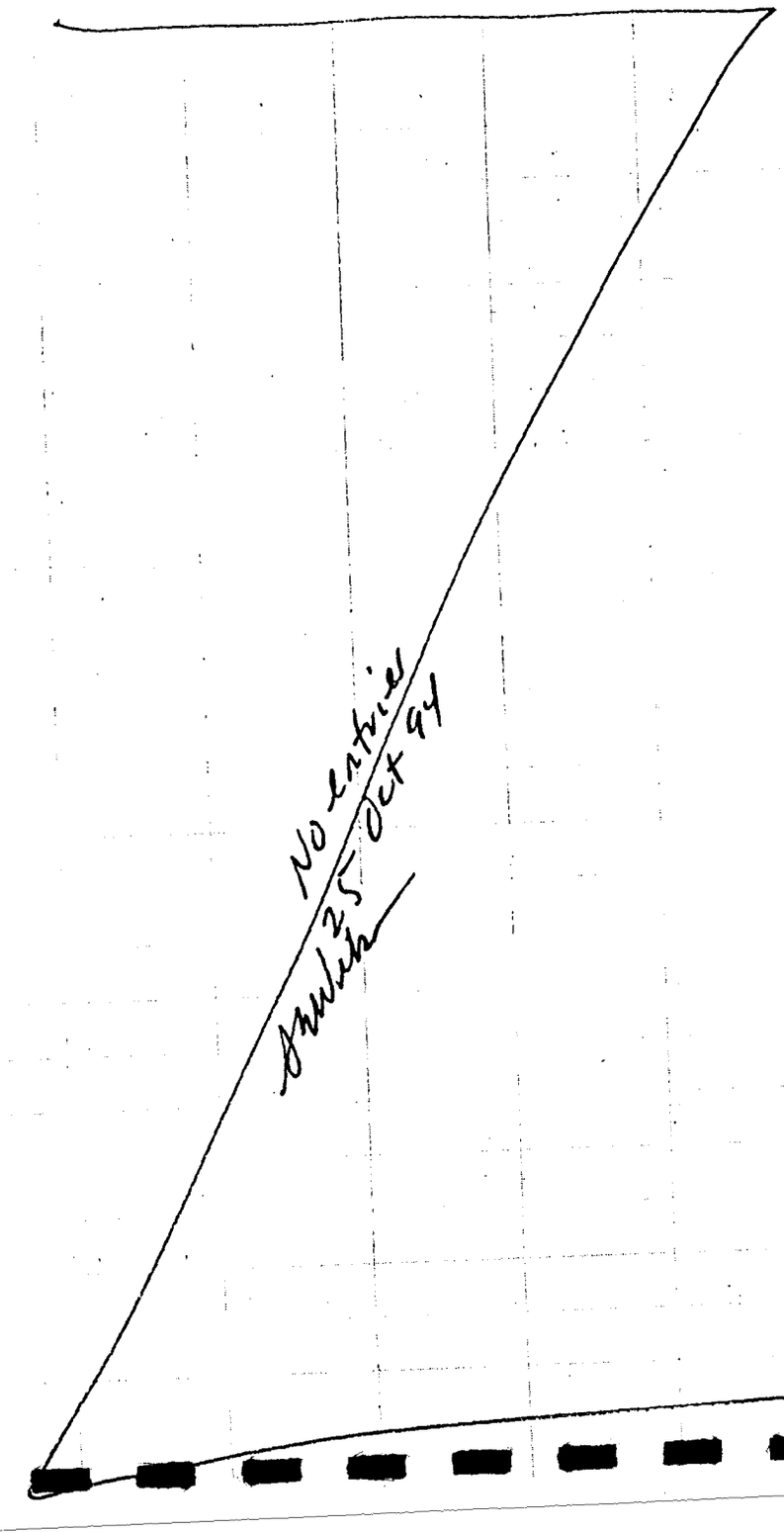
Tuesday, 25 Oct 94

0842- Sampling of 04-007PS begun. Water samples taken. Ambient air on PID = 3.7 ppm
Temp = 40° + breezy. Overcast.
0900- Security Policeman stopped by 04-008PS in truck. KC-135s will be doing engine run-ups. Cannot go any further. SSgt Warner is S.P.
0902- SSgt Warner returned with update. Tail # 021 will be doing pre-flight activity at 1030 hrs with an 1100 sked departure. We must terminate Ops along ramp @ 1030, for 45-minute period.
0905- Briefed whole crew.
0906- Setup at PS-008 to water sample.
0908- PIDded hole upon opening. PID = 4.1 ppm (Ambient = 2.6 ppm) = 1.5 ppm
Temp = 38°F - very breezy.
0925- Completed sampling at PS-008. Very little water in hole.

LAST ITEM

25 Oct 94

(22)



(23)

Tuesday, 25 Oct 94

0928 - Moved to 04-009PS. PID hole upon opening = 1.5 ppm
Ambient background = 3.5 ppm
1000 - Sampling complete. Packed gear + departed site.
1002 - Stopped Security Police boundary patrol (Sgt Warner) + notified him of securing opns. Returned to Decon pad.
1017 - Traveled to admin bldg (C.E).
1018 - WX: Cloudy; Breezy + cool mid 30's - mid 40's today. mw
Poss flurries — NW 10-~~20~~ mph winds.
(This is NOAA WX cast on RADIO)
162.40MHz. — CH ~~8~~ 3 mw 4 (mw)
1022 - Departed base for Hotel to pick up Chests coming from lab. Stopped by Decon pad + picked up Craig
1030 - Traveled to Hotel + picked up coolers with sampling bottles
1050 - Stopped + picked up Hot Chocolate + coffee for crew
1110 - Returned to base: Dispensary + mw dispensed hot chocolate + coffee

LAST ITEM

25 Oct 94

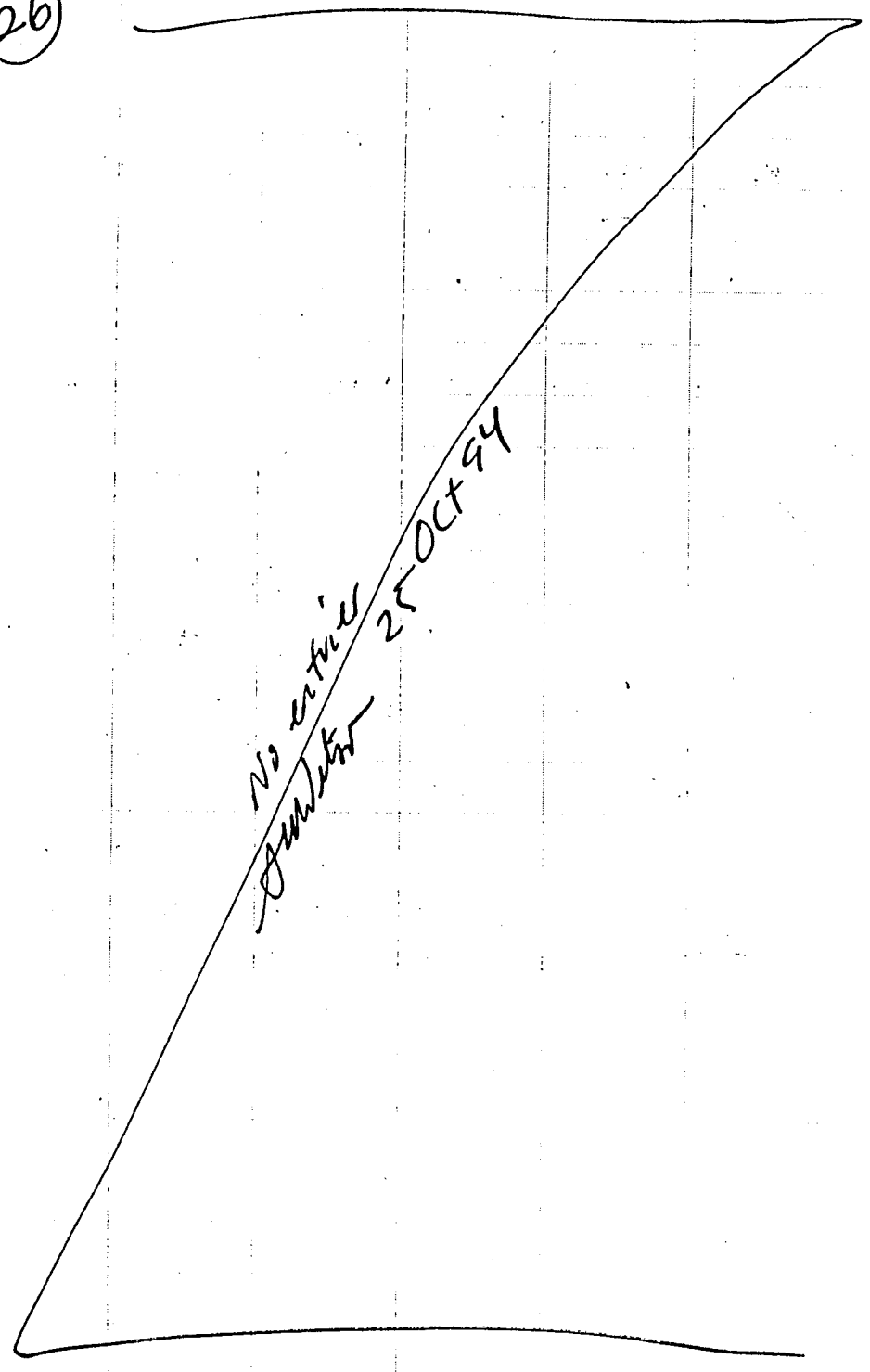
NO entries
Jeff W — 25 Oct 94

Tuesday, 25 Oct 94

1125 - Unlocked Cellphone (at last)
1140 - Unpacked ice chests & resorted new sample containers into pre-planned bags. Restored in coolers.
1145 - Departed CE to Decon Pad. Will be taking rinseate blanks (QA/QC samples) on mission equipment.
1210 - Set up equip for QA/QC Samples (table, de-I H_2O, sample kits, etc.) Reminded all of PPE (esp. eyewear)
1213 - Sampling began - Jeff, Rueben, & Brian are involved. Took pics.
1221 - WIND 320°/12 KTS (monitoring tower freq of 119.1. Temp is 48°F.
1301 - Sampling continuing. Have sampled bailer, Split spoon sampler & trojon tube. Will now sample steam cleaner hose/pump assembly.
1312 - Sampling completed. Equipment breakdown completed & truck repacked.
1318 - Lunch Break
1400 - Back at Decon Pad w/ drillers
1420 - Rueben back w/ van

LAST Item

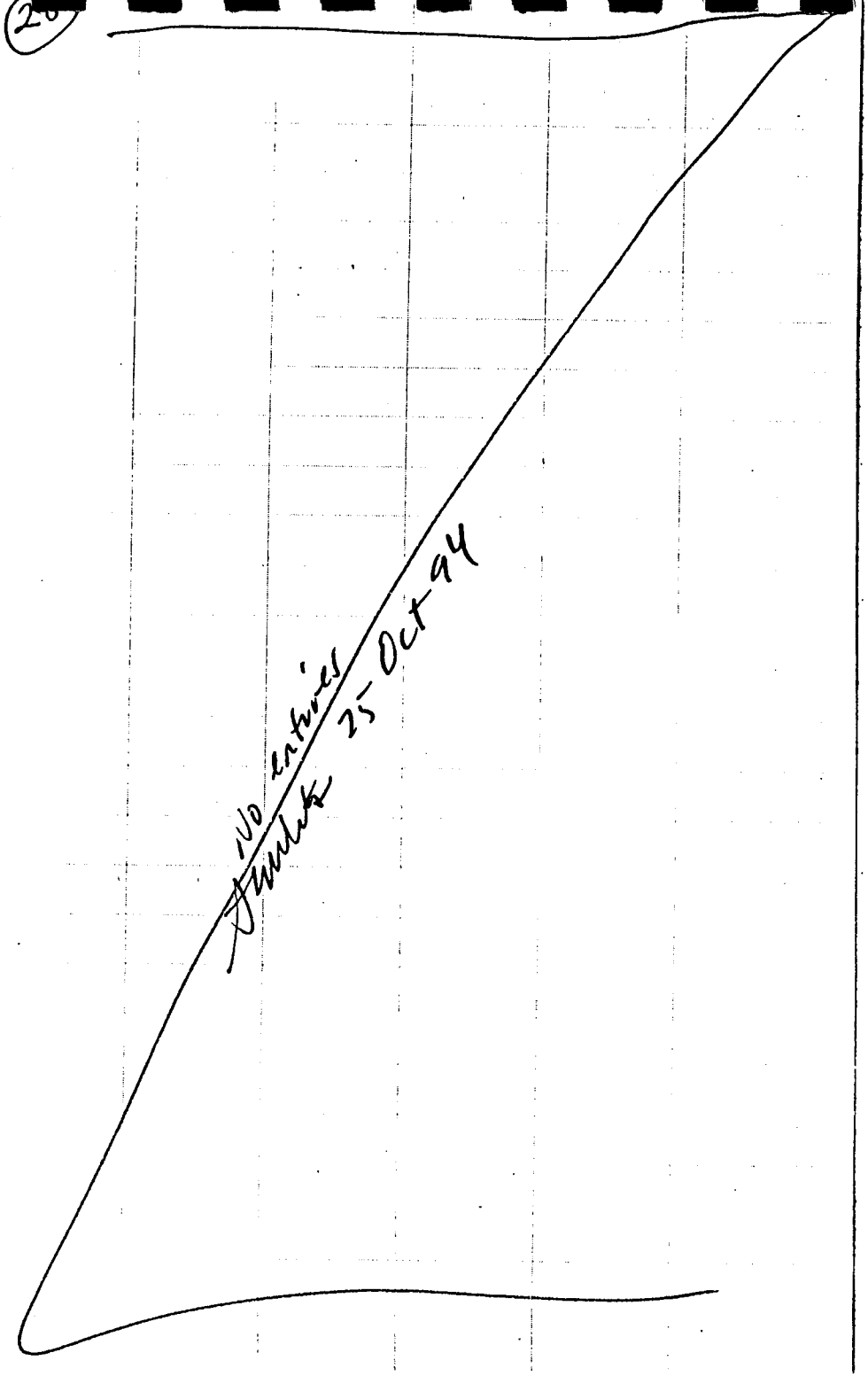
Jeff W — 25 Oct 94



TUESDAY, 25 Oct 94

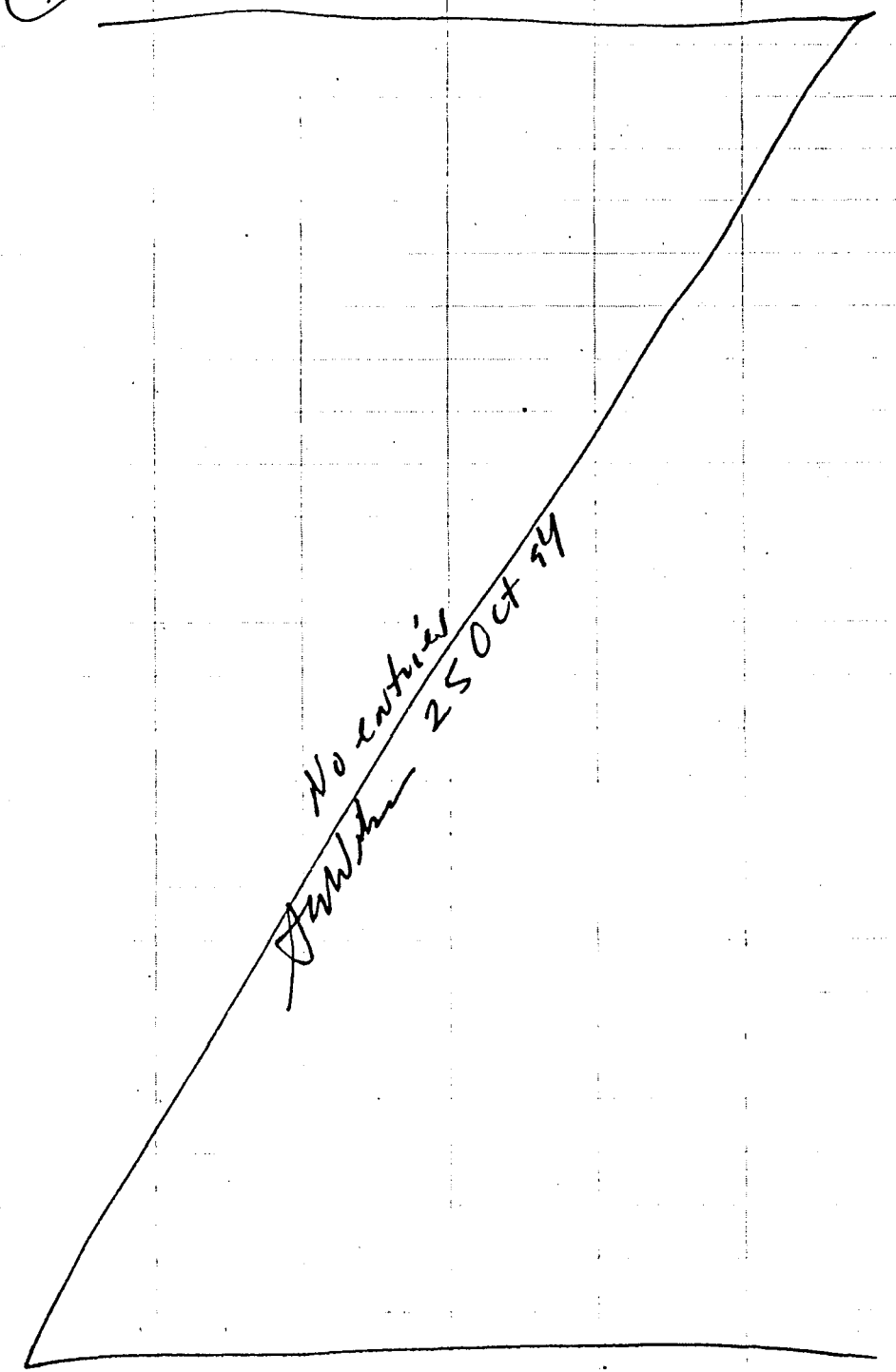
1415 - H+S Briefing
Attendees: Ruben, Jeff, Brian, Craig, + + Steve
Subject: WX (Cold hazard), Operations (drilling); exposure pathways; PPE; kill switches; evac plan; sunset time; safety equip locations; emergency comms
1420 - Crew left Av [PS-010 setup]
I talked to MSgt Armstrong in KC-135 maintenance hanger about securing power washer @ 1630. Will be available from 0600 on. Will freeze if not kept in warm area tonite.
1440 - On site @ PS-010
1450 - Ambient air = 4.1 ppm on PID (occasional drops to 3.9 ppm)
Aircraft are operating on 290 runway
1457 - PID of Spoon surface - 1' BLS = 0.5 ppm
1505 - PID of hole @ 3' = 6.4 ppm
1508 - " " spoon @ 1'-3' = 47.4 ppm
Ambient Air = 3.7 ppm
LEL - O.K.
— LAST ITEM —

25 Oct 94



TUESDAY, 25 Oct 94

1512 – NOAA Wx Broadcast:
Partly Cloudy → Upper 40's
NW Winds 15–20 mph
NOTE: OUR TEMP VIA THERMOMETER = 44°
1515 – PID of Spoon @ 1'–3' BLS =
6.6 ppm reading – 2.9 Ambient = 3.7 ppm
NOTE: Previous spoon @ this depth did not contain brass sleeves (driller error). Was moved 6" + re driven.
1522 – PID of hole @ 5' = 1.5 ppm
1526 – PID of Spoon 3'–5' = 5.6 ppm
Ambient Air = 2.8 ppm
Temperature = 42° F + breezy.
Total overcast + gray. Wind from NW.
1539 – PID of hole @ 5'–7' = 1.5 ppm
1540 – PID of Spoon @ 5'–7' =
4.4 ppm – 2.9 ppm = 1.3 ppm
1545 – Bill Hedberg arrived on site
I gave him H&S briefing on all visit items. He has all PPE. No gloves, tho.
1559 – PID of hole @ 10' = 1.8 ppm
1602 – PID of Spoon @ 10' = 2.5 ppm
Ambient AIR = 2.4 ppm
LAST ITEM
25 Oct 94



Tuesday, 25 Oct 94

1620 - Finished drilling 04-0010RS. Secured gear + packed truck.

1622 - I traveled to Decon pad to coordinate w/ base on securing power washer. Base has blocked door to permit securing of power washer. We can secure on our schedule.

1645 - Decon + wrapping of clean spoon completed. Will go water sample now.

1656 - Moved to 04-0070PS

1700 - H+S Briefing

ATTENDEES: Brian, Craig, Jeff, Jim, Mark, + Rueben

Subjects: New location (tripping) Splash hazard; cold; darkness + hurry; Decon; PPE + Gloves.

1705 - PID hole upon opening = 0.6 ppm

1710 - Water level indicator lowered. Has been decontaminated. Fresh gloves used.

1716 - Sampling begins. Water is clear. Ambient air = 2.3 ppm

1719 - Sampling finished - barely enough water

LAST ITEM

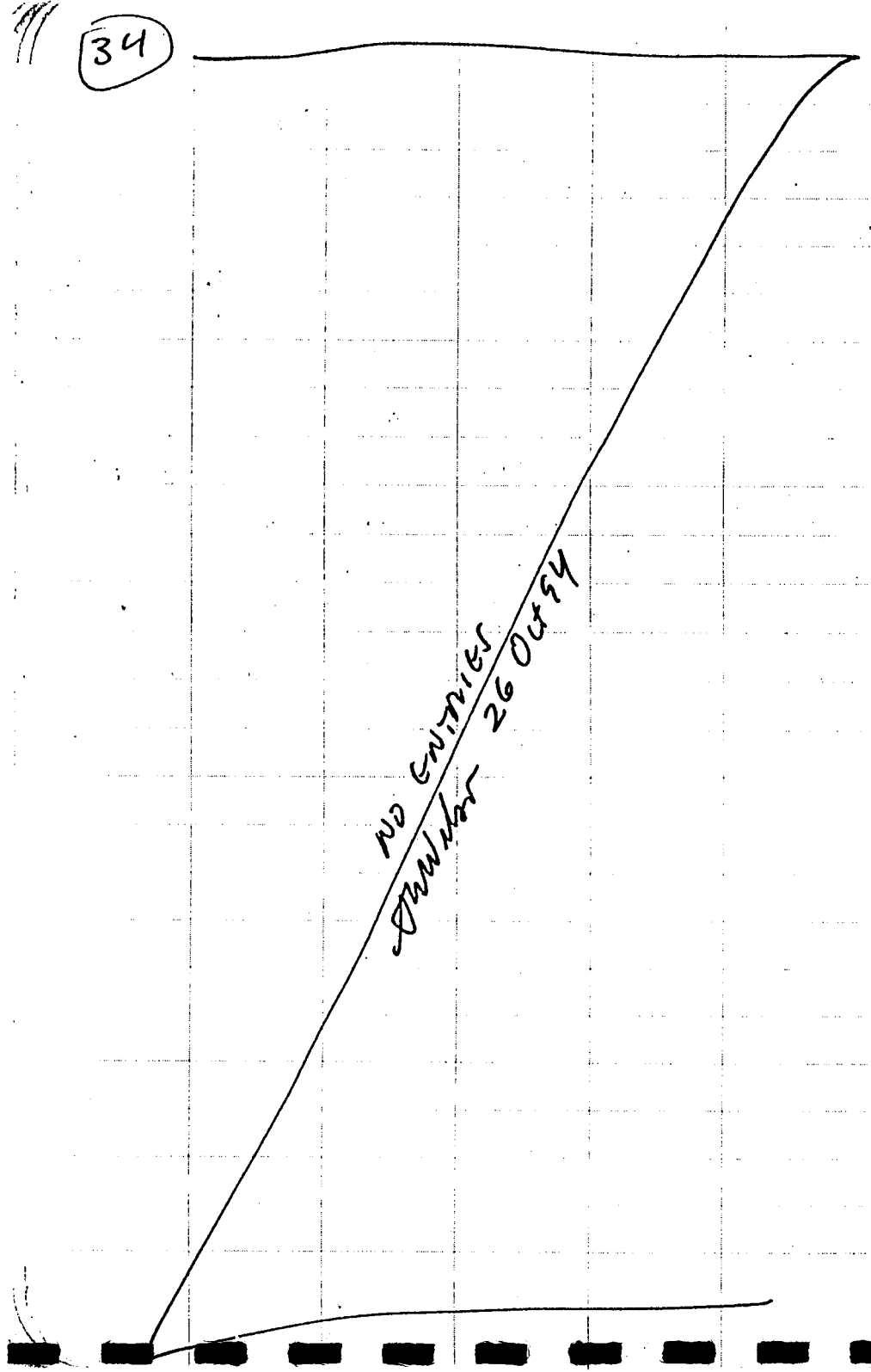
25 Oct 94

No entries this shift as of 25 Oct 94

1725 - Moved to 04-00 E/S
PID of hole upon uncovering = 0.6 ppm
1745 - Security Police Ramp Patrol stopped by - engine start on KC-135 in 20 minutes. Decision made to terminate ops.
1750 - Moved to Decon Pad to secure gear. Rueben + Mark off to Hotel to complete CoCs + prepare FEDEX shipment
1755 - Jim Hedburg departs
1815 - Steve + Jeff Depart for Hotel

LAST ITEM

J. Wilson 25 Oct 94



Wednesday, 26 Oct 94

WX: Sunset = 5:52pm / Sunrise 7:18 AM
Partly cloudy 48@ NOON
AM ~~Northwest to Southwest to~~ 51@ 5 PM
Lite, Westerly breeze as low erodes → 10 mph
Clearing trend - partly cloudy/sun this pm
Higher temps as week progresses
0704 - ON site @ Decon Pad. Bill H. is here.
0715 - Calibrated PID w/ 75 ppm isobutylene. PID # NA930184. ISO lot 3-188, 7/15/94
0734 - Met w/ Sgt Larson at CSC:
A/C @ 0815, 0840, & 0900
Due in: 0800 Back at NOON
(1145-1230). Additional prop a/c coming in this A.M (unk time)
0739 - Back @ Decon Pad. Drillers
0815 - Moved to E Street due to flying opns.
0820 - H&S Briefing
Attendees: Jim H, Jeff, Craig, Brian, Rueben, + Mark.
Subjects: All √ list items; seat belts, PPE review, visitors (gawkers)

26 Oct 94

NO Entries
Walter 26 Oct 94

Wednesday, 26 Oct 94

0828 - Rig moved into place @ 04-020 PS. placed LEL + turned on PID
Ambient Air = 0.0 ppm
0835 - PID of hole @ surface - 1' = 1.3 ppm
0838 - " " spoon = 1.0 ppm - CAP
0843 - PID of hole @ 1'-3' = 14.3 ppm
0846 - PID of spoon cap @ 1-3' = 18.2 ppm
0850 - Msg delivered by ILT Robyn to call ANGRC / Dan Waltz
0852 - Departed site to find Jeff
0854 - Back on site - delivered ~~Jeff~~ to Clinic to call.
0859 - Robert + Mark complete trip ATHA + Field QC samples
0905 - Ambient air at back of rig = 0.2 ppm
0906 - PID of hole @ 5'-7' = 221 ppm
0907 - " of spoon Cap 5'-7' = 229 ppm
Can smell gas (product). Dirt is wet.
0921 - PID of hole @ 11.5'-12' BLS = 420 ppm
0931 - ATHA of 5'-7' soil = 780 ppm
PID returned to 0.5 ppm
0932 - ATHA of 1'-3' soil = 42.3 ppm

Walter 26 Oct 94

NO ENTRIES
JTWilson 26 Oct 94

Wednesday, 26 Oct 94

0940 - Capt Wickman on site - discussed clearances w/ utilities (underground).
0946 - Jeff & Bill H. joined conversation. Capt Wickman will clear last point & return map to Jeff
0954 - Picked up drillers & returned to site to discuss SOW changes
+ NO more H_2O samples to lab - GC only
+ Soil Samples at every 3rd point to lab
+ NO PZs
+ Will be doing monitoring wells (4)
+ GC results on H_2O - send to D. in Waltz (detection limits)
1009 - Delivered drillers back to decon pad
1011 - Back to site 04-019 PS
1030 - Drillers on site 04-019 PS
Set LEL & warmed PID
Ambient air @ table = 0.0 ppm
" " @ Back of Rig = 0.0 ppm
1040 - PID of surface to 1' = 0.3 ppm (spoon)
1046 - " " spoon cup 1'-3' = 22.5 ppm
1047 - PID of borehole 1'-3' = 273 ppm
1049 - Can smell product in soil sample on table. ——— LAST ITEM ———

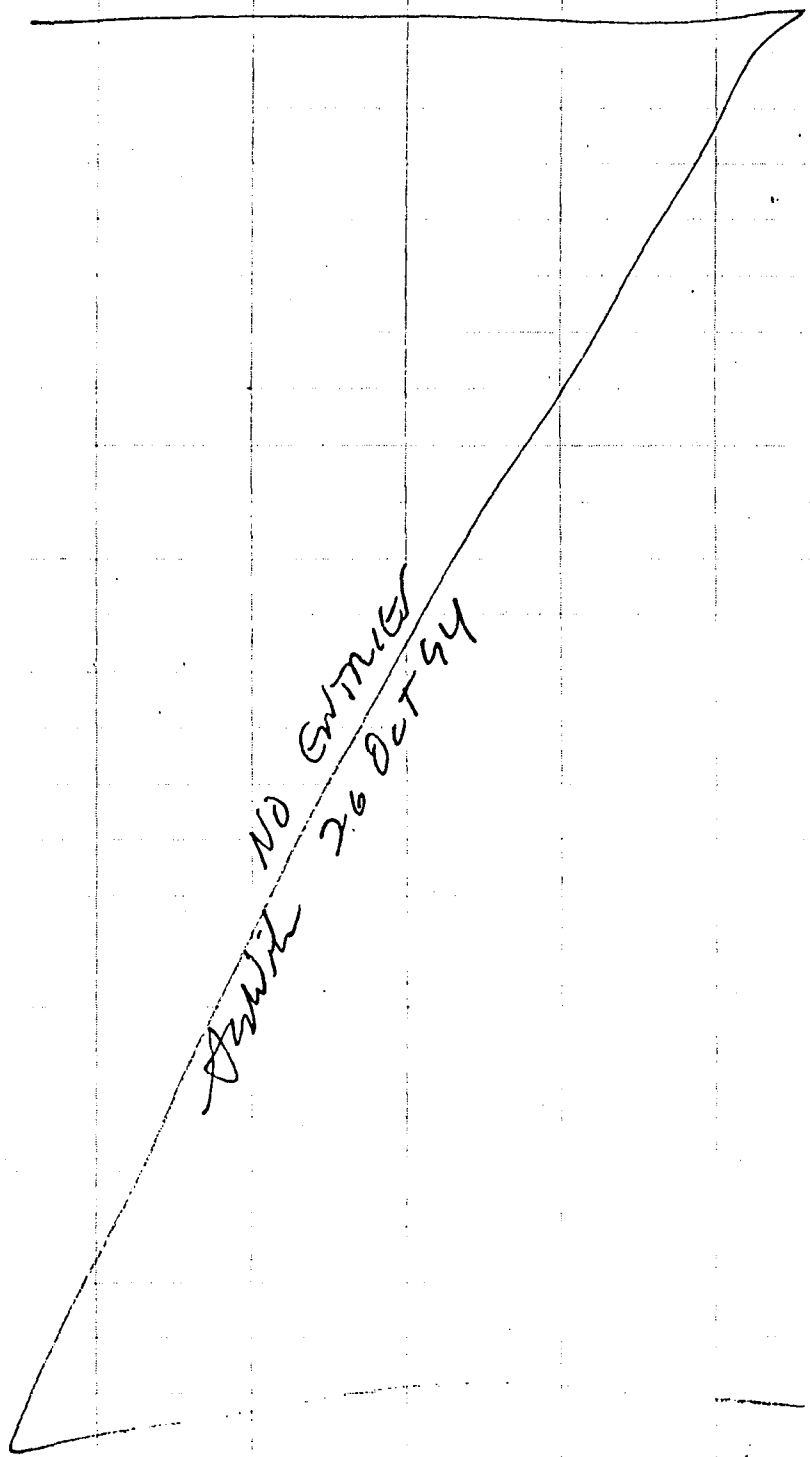
JTWilson 26 Oct 94

NO entries
Owilson 26 Oct 94

Wednesday. 26 Oct 94

1102 – PID of Spoon (cap) @ 5'-7' = 2.0 ppm
1110 – Site Breakdown Underway.
Drillers to Decon pad. We will move to 01-021PS next.
1138 – Drill rig back from Decon pad.
Set up on 04-021PS
1143 – PID of borehole surface to 1' = 0.2 ppm
1144 – PID of Spoon cap surface to 1' = 4.8 ppm
1148 – PID of borehole 1'-3' = 0.0 ppm
PID of Spoon cap 1'-5' = 10.2 ppm
1211 – PID of borehole @ 5'-7' = 0.0 ppm
1212 – PID of Spoon cap @ 5'-7' = 1.0 ppm
1225 – Finished w/this hole
1230 – Lunch
1330 – On site @ 04-028PS by Flower bed
WX: cloudy 48° @ 1300 at airport
Mid Afternoon: less clouds (clearing trend)
High: 50's Tonite: 30's
NW-W 10 mph winds
1355 – Short H&S briefing
Attendees: Jim, Craig, Brian, Reuben, + Steve
Subjects: WX, r/list items
LAST ITEM
OWilson 26 Oct 94

(42)

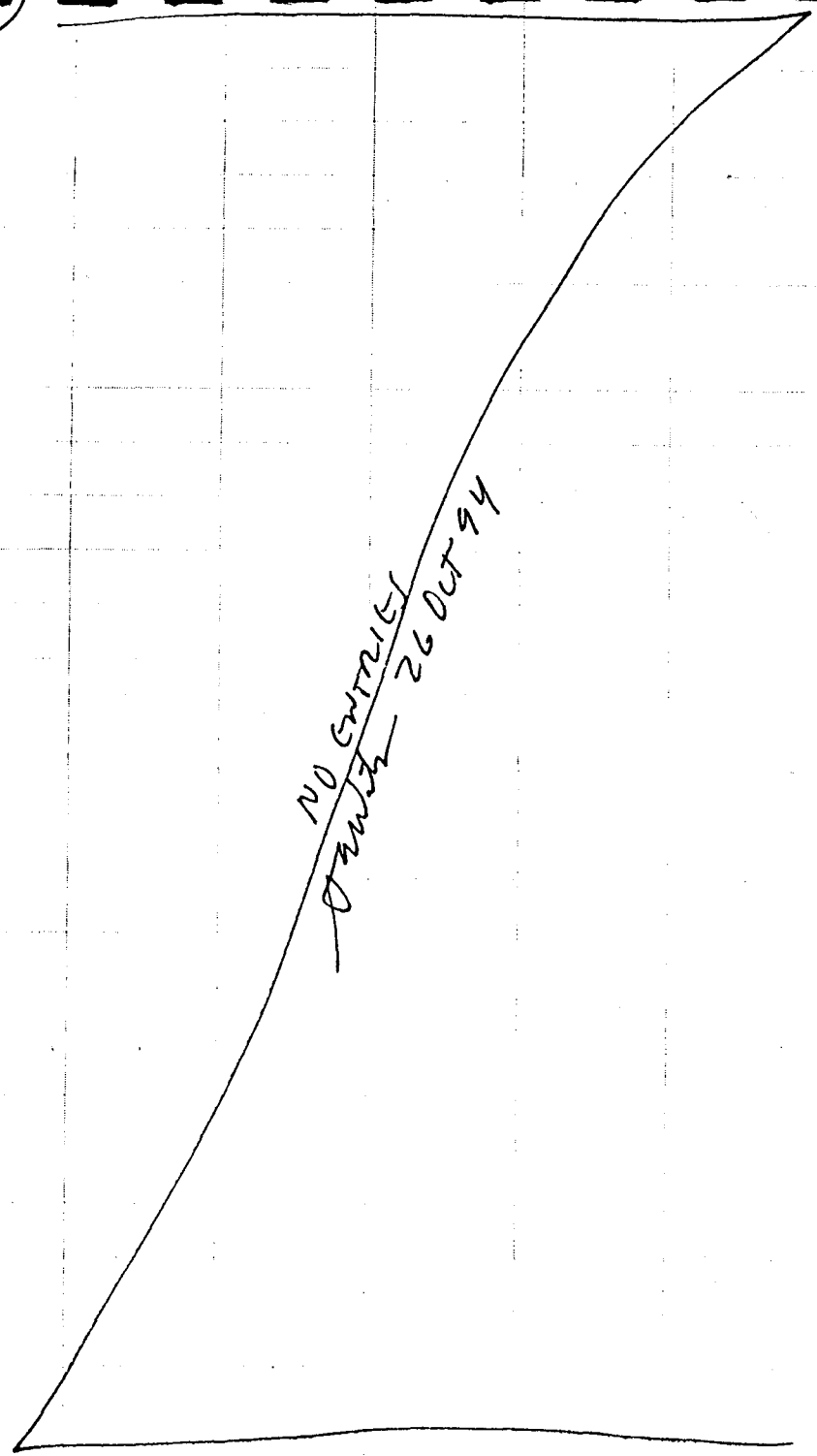


Wednesday, 26 Oct 94 (43)

1357 - Driving spoon at 01-027PS
Ambient air @ back of rig: 0.0 ppm
1358 - PID of borehole 0'-1' = 0.0 ppm
PID of spoon cap @ 0-1' = 2.3 ppm
1408 - PID of borehole @ 1'-3' = 16.3 ppm
PID of spoon cap @ 1'-3' = 143 ppm
1424: PID of Borehole @ 5'-7' = 346 ppm
PID of spoon cap @ 5'-7' = 1796 ppm
1440 - LEL Alarm — meters read O.K. Alarm is persistent. All meters read normally & green light is ON — indicates a malfunction, NOT LEL condition. Circuit should lock & green light extinguish if LEL indicated. Battery V = O.K (80-90 percent). Recycled ON-OFF button & LEL now operating normally. According to operating book, leaded gasoline (lead) causes malfunctions, as well as Silicone & hydraulic fluid. High hit on this hole; could be lead from gasoline residue?
1453 - Drillers to decon pad to decon rig. Rueben finishing up Sampler.
1510 - Rig back. Set up on 01-027PS.

LAST ITEM

26 Oct 94



Wednesday, 26 Oct 94

1512 - Briefed Rueben, Craig, + Brian on LEL malfunction, after telecon with Dr. Matt Alexander.

1527 — Recalibrated LEL Meter per book instructions. Serial #6553.

~~15~~ AW Replaced LEL @ back (downwind) of Rig. Note: LEL IS IN exhaust stream. Truck is Diesel. LEL operating normally.

1549 — Continuing discussion on what Sampling protocols must be followed. Confusion among contracting, ANGRC/CEVR, HAZWRAP auditor, + US on what is the real scheme. Conference call tomorrow A.M. Will determine.

1552 - PID of borehole @ 5'-7' = 0.0 ppm

1554 - PID of spoon cap @ 5'-7' = 0.0 ppm

1613 - Put caution tape around PVC "well" on 04-028 PS. Took pic.

1625 - Drillers off site to Decon pad.

1648 - Drillers onsite @ 04-023 PS
Site setup in progress. LEL in place.
PID reading ambient air @ 0.0 ppm

1650 - Current Temp: 48°F; light W/NW breeze
Partly sunny ——— LAST ITEM ———

AWalter 26 Oct 94

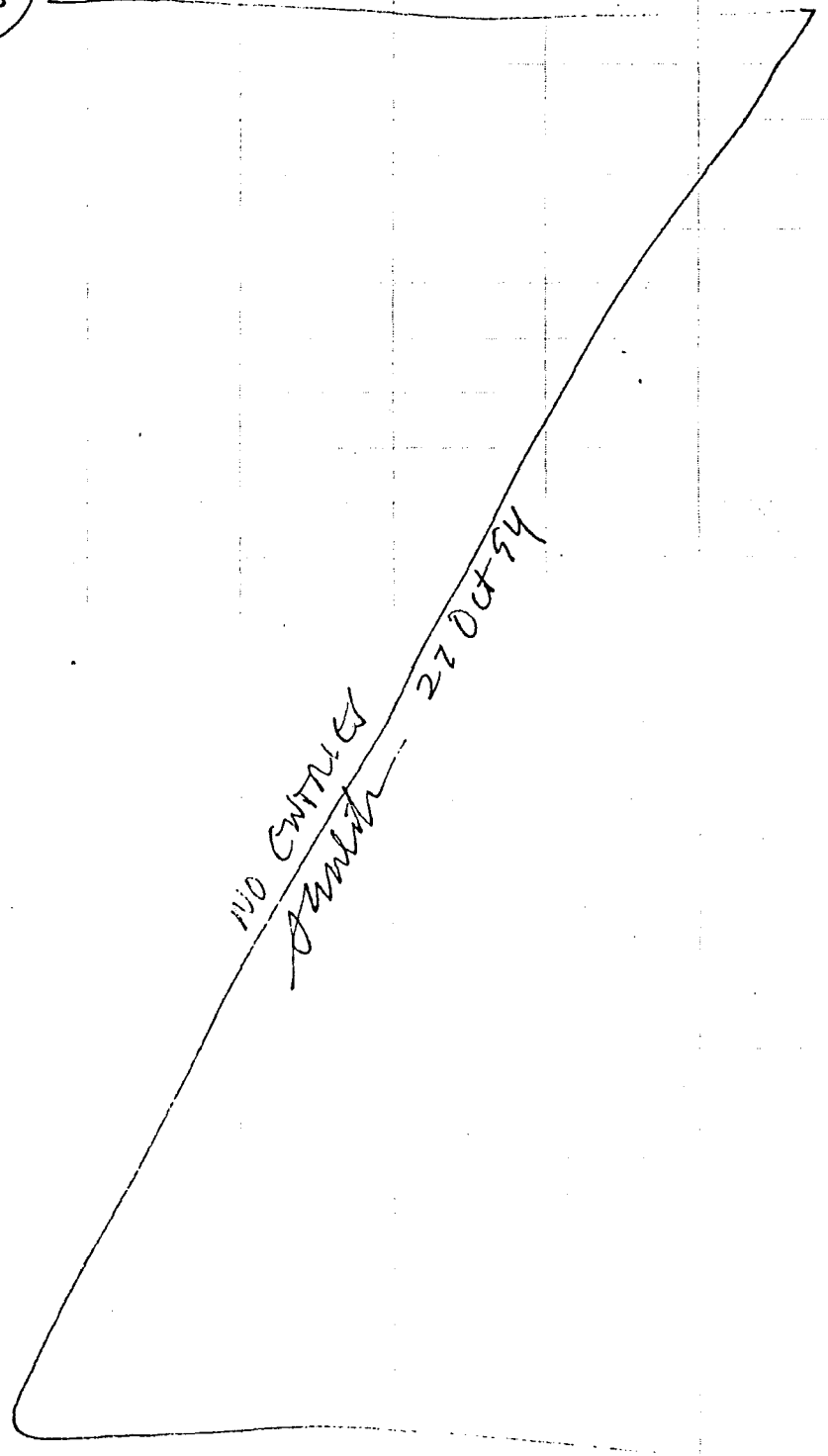
NO ENTRIES
Jarvis 26 Oct 94

WEDNESDAY, 26 OCT 94

1650 - Spoon in ground @ 04-023RS
1651 - PID of hole surface - 1' = 0.0ppm
PID of spoon cap @ surface - 1' = 0.0ppm
1701 - PID of hole @ 1'-3' = 0.0ppm
PID of spoon cap @ 1'-3' = 3.1 ppm
1711 - PID of borehole @ 3'-5' = 0.5ppm
PID of spoon cap @ 3'-5' = 1.2 ppm
1725 - Site activities complete
Site breakdown / Recon begins
1800 - Off base for hotel / FEDEX

LAST ITEM

Jarvis 26 Oct 94



THURSDAY, OCT 27, 1994

WX: Sunnier today, with higher temps
Highs: 60-65°
SW winds 15-25mph [NOTE DIRECTION CHANGE]

0700 - ON Base @ Decon Pad
0705 - Calibrated Microtip MP-1000 PID Serial No. NA930184 with 75ppm ISOBUTYLENE, LOT # 3-188, 7/15/94, using TEDLAR BAG & TAIGON TUBING.
MARK IS CALIBRATING LEL.
Jeff & Bill H. are gone to admin bldg to make conference call to AWONC. Subject is exact sampling plan
0721 - WIND @ APT = 210°/6 KTS
MARK & Rueben depart for ice run
0737 - Mark & Rueben back.
0746 - ON SITE @ 09.026 PS. Standing water at flag - will need to be moved. Jeff back from phonecon. Results:
+ Back on original soil sampling plan
+ Install 5 GW wells
+ Not sampling GWater except for GC
+ Will be doing PZs IAW workplan

Jennifer 27 Oct 94

(50)

NO ENTRIES
27 Oct 94

THURSDAY, 28 Oct 94 (51)

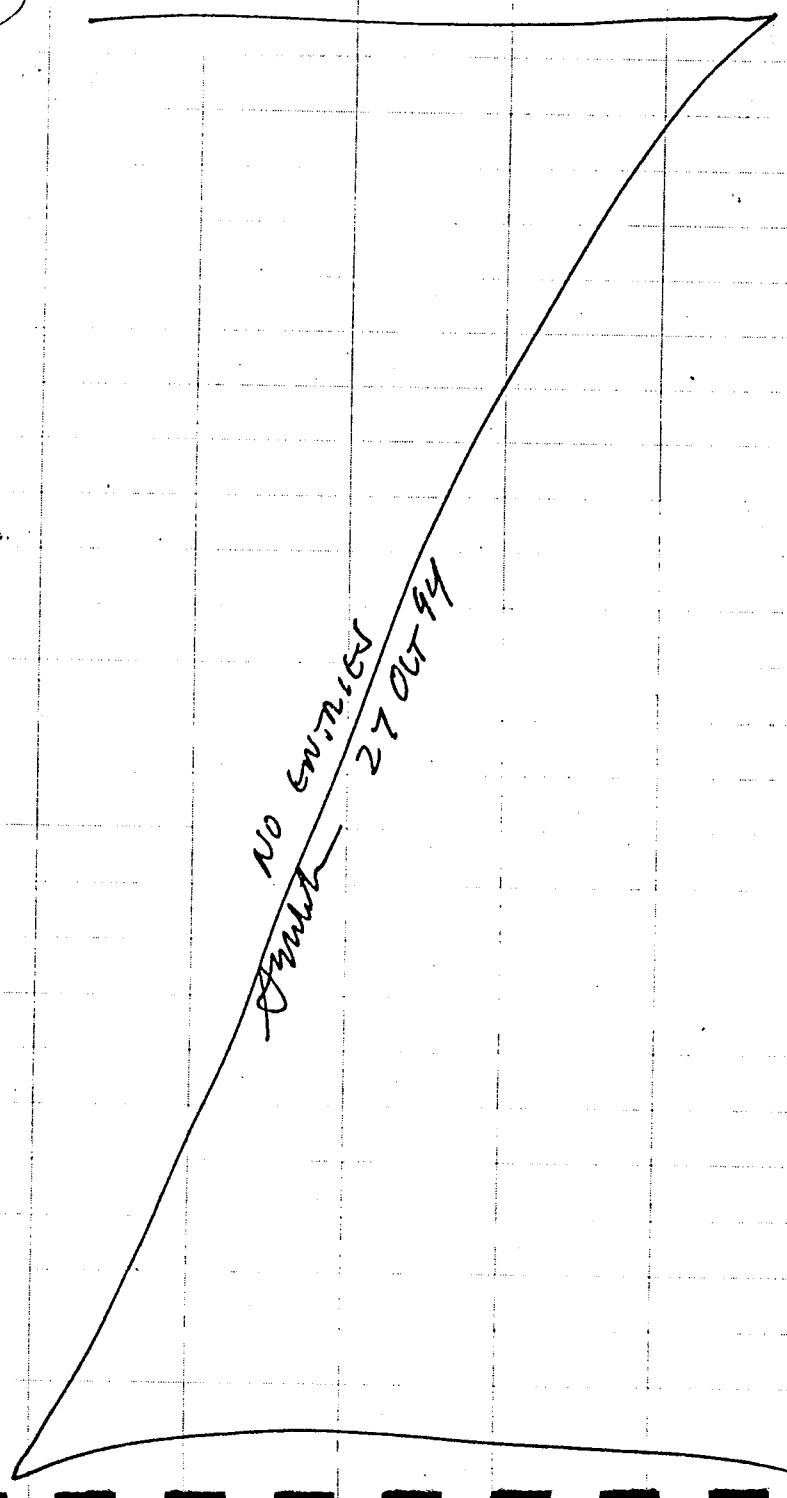
0749 - H+S Briefing
Attendees: Mark, Rueben, Jeff, Brian, + Craig
Subjects: WX; all ✓ list items
Gloves, seat belts, Wind direction change emphasized.
0752 - Plan is to return to post
0753 - SMSgt South (Fire Chief) stopped + talked w/ Steve, Jeff, + Bill H. Discussed old fuel Spill. Bill H will visit MR. Gradowski, the last on-base person who witnessed the spill.
0810 - ON Site @ 04-019PS Rueben + Mark are changing table covers (plastic) on both tables. LEL put in place (S.W. Wind). PID Warmed.
Ambient Air = 0.6 ppm
Current Temp: 36° Sunny
Very few cloud wisps - mostly clear
0820 - PID of (New) 04-019PS from surface - 1' = 0.4 ppm
PID of Spoon cup @ Surface - 1' = 0.6 ppm
0815 - Phone con w/ SMSgt Birch
0820 - PID of hole @ 3'-5' = 210 ppm

27 Oct 94

NO ENTRIES
Jennifer 27 Oct 94

0840 – PID of spoon @ 3'-5' = N/A
(No recovery)
AMBIENT BACKGROUND = 0.7 ppm
0853 – PID coming out of ground @ 5'-7'. Can smell pid, which is wet + covered w/ wet, sloppy mud
0900 – PID of hole @ 5'-7' = 12.1 ppm
PID of spoon cup @ 5'-7' = 0.5 ppm
[I believe contamination from fuel is shallow]
0909 – PID LOBatt indicator illuminated (Was charged all night). Switched to alternate PID
0910 – Calibrated Microtip MP-100 Serial No. NA890204 with 75 ppm isobutylene. Calibration complete.
0915 – Site investigation complete. Driller to decon pad.
0918 – Rueben + I into clinic. Reviewed fuel spill data w/ Bill H. + Jeff, including pic of base
0940 – ON site @ 04-021PS (Resample)
LEL put in place; PID operating @ 0.0 ppm
0950 – PID of hole @ surface to 1' = 0.0 ppm
PID of spoon cup @ surf-1' = 1.5 ppm

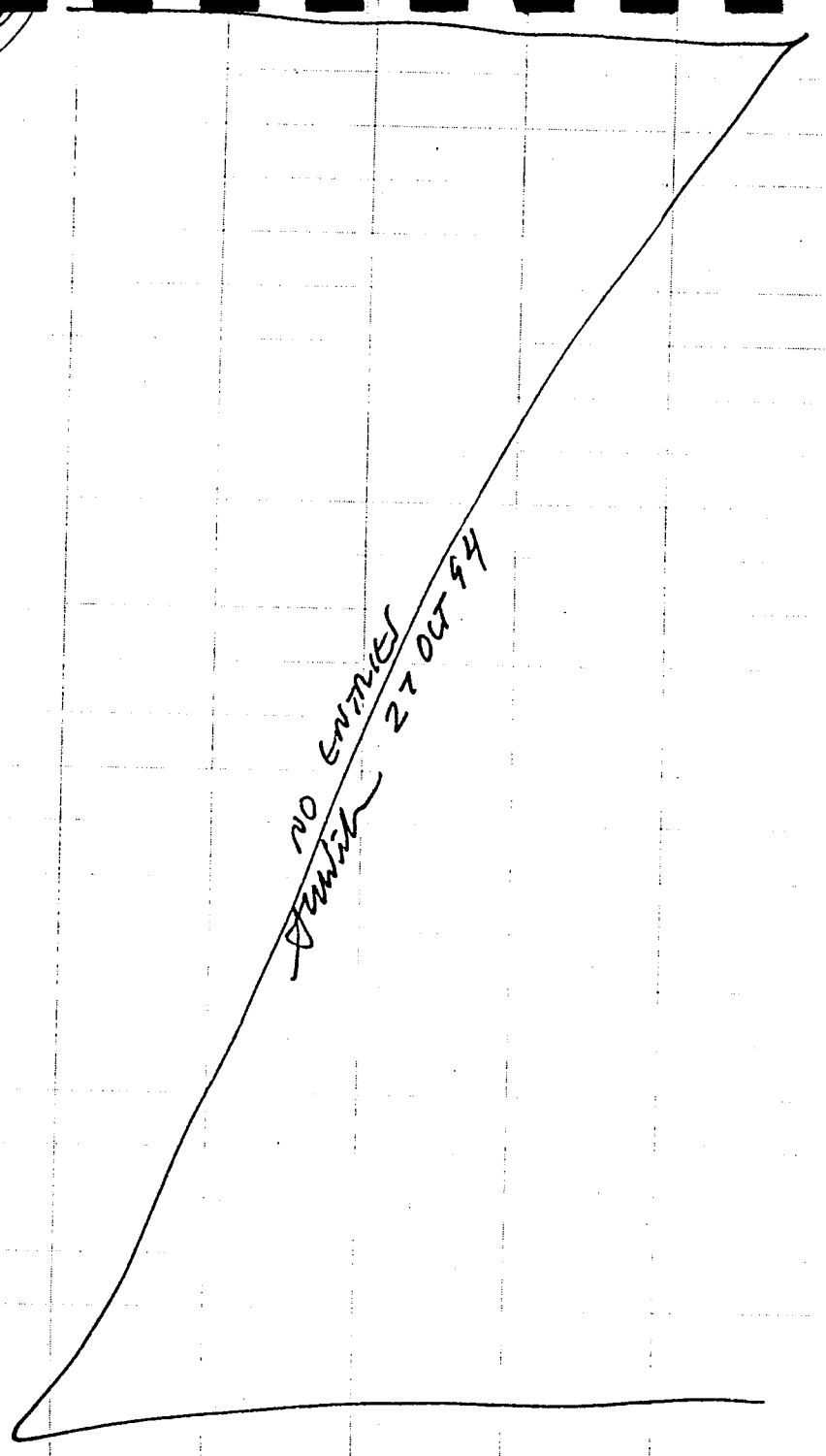
Jennifer 27 Oct 94



THURSDAY, 27 OCT 94

0958 - PID of hole @ SW 1'-3' = 0.0 ppm
PID of spoon cap @ 1'-3' = 0.0 ppm
1006 - PID of hole @ 3'-5' = 0.0 ppm
1011 - PID of spoon cap @ 3'-5' = 0.0 ppm
1023 - PID of hole @ 5'-7' = 0.0 ppm
PID of spoon cap @ 5'-7' = 0.0 ppm
1032 - Lt Huelsman stopped by site. Asked if base foot traffic is a problem. Advised him it is not. He can send out e-mail msg if we need to, to all base personnel.
1034 - Secured LEL, since drilling has finished @ this site. Plan is to get one more hole before lunch, then get QA/QC samples as required.
1113 - H&S Briefing
Attendees: Jeff, Bill H., & Rueben
Subjects: Eye hazard; glove up; wind
1120 - Watched collection of Nitrate blanks w/ Jeff & Rueben doing the collecting.
1145 - Tried to sample 04-01GPS - NO Water. PID = 0.0 ppm
1215 - Decon Lab

27 Oct 94



1215 – Sampled 04-023PS for QC Sample. Back to decon bailer PID = 0.0 ppm

1226 – Sampled 04-027PS. PID = 0.0 ppm. Back to decon

1238 – Opened 04-028PS PID = 1062 ppm. Can smell well (POL smell). SUCCESSful in collecting H_2O

1256 – PID of 04-020PS (corner of E Street) PID = 56.0 ppm. Bail was successful.

1312 – Departed for Lunch

1404 – Back on site. Drillers have returned from fixing rig + lunch. Had to replace hydraulic part. Departed to Decon.

1415 – Cmpr Wickman on site. Has shut off water in CE area. Fire dept will be spraying west trees tonite. Discussed drilling between drainage pipes

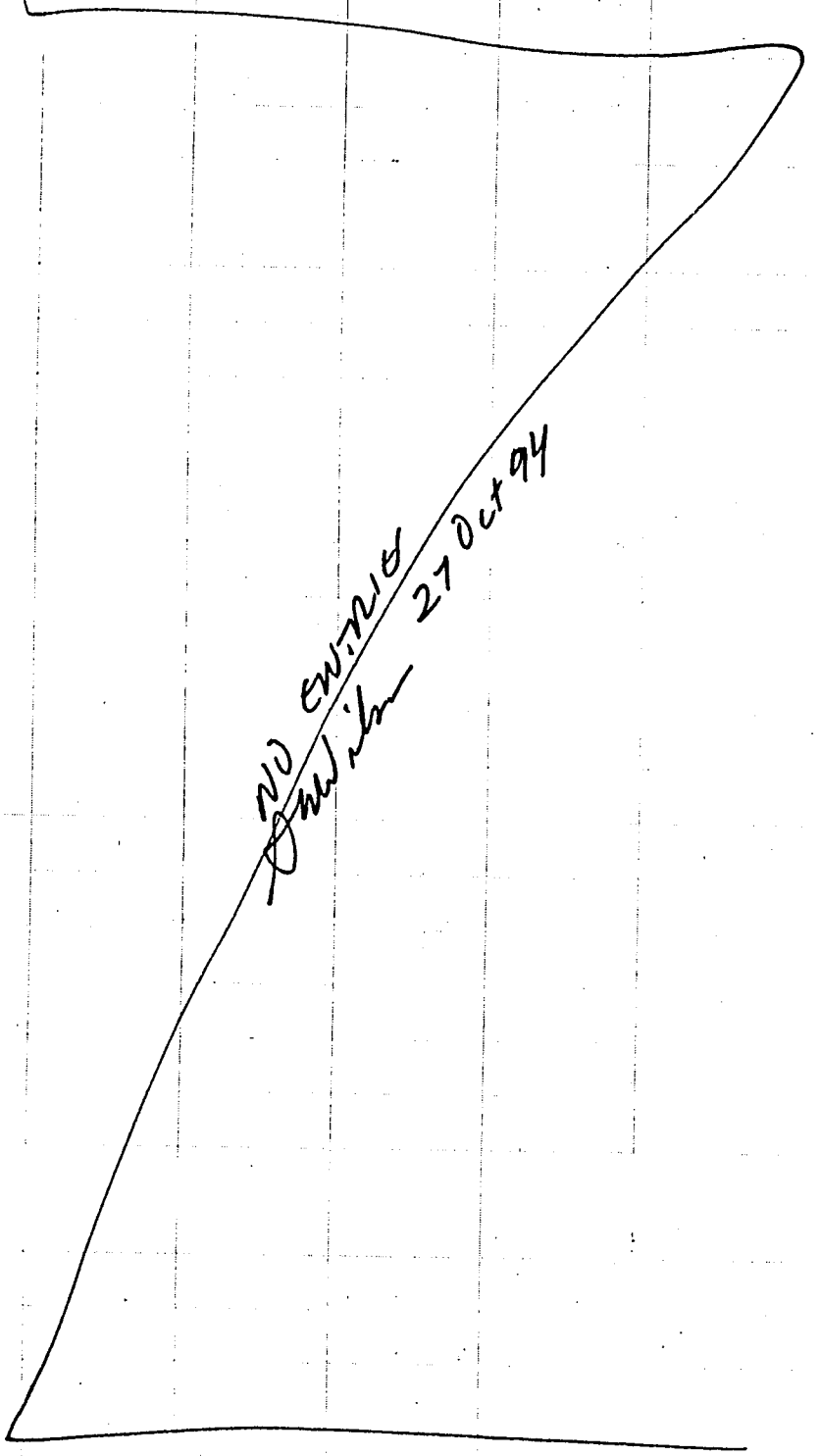
1435 – Drillers Back fm Decon. Moved rig into place @ 04-021PS to punch down into sand to reset well (well was dry)

1440 – HAS Briefing

Attendees: Brian, Craig, Reuben

Subjects: WX, evac, Task review, emerg equip locations

27 Oct 94



THURSDAY, 27 OCT 94

1441 – Bill Hedberg departs site for airport
1445 – Redrilling of 04-021 PS begins
1507 – Tried to push pipe DOWN – only @ 6' BLS (bottom of pipe) because hole collapsed when rig boring device withdrawn. Soil is very sandy & very fine.
1545 – Moved Rig into PSN at 04-022PS Between two large culverts. We all are apprehensive that the rig will hit cement on the culverts, subsurface. Must position rig very carefully. Will go thru man-made fill before hitting H_2O. LEL in place & PID operative.
Ambient air = 0.0 ppm
1553 – PID of hole @ Surface-1' = 0.0 ppm
PID of spoon cap @ Surface-1' = 0.0 ppm
1558 – PID of hole @ 1'-3' = 0.0 ppm
PID of spoon cap @ 1'-3' = 0.0 ppm
1600 – 1LT Huelsman on site – just monitoring progress
1613 – PID of hole @ 5'-7' = 0.0 ppm
PID of spoon cap @ 5'-7' = 0.0 ppm
1619 – 1LT Huelsman off site.
1620 – PVC in place & screened

27 Oct 94

NO ENTRY
Unwitnessed 27 Oct 94

[redacted] 27 Oct 94

1645 - Moved to 04-026PS. Setup in progress. PID is operable = 0.0 ppm LEL in place, Ambient air @ site is 0.0 ppm. Note: location is behind temporary fire dept bldgs at edge of asphalt parking lot.
1700 - PID of hole @ surface - 1' = 0.0 ppm
PID of spoon cup @ surface - 1' = 0.0 ppm
1706 - PID of hole @ [redacted] = 0.0 ppm
PID of spoon cup @ 1-3' = 0.0 ppm
1720 - PID of hole @ 5'-7' = 0.0 ppm
PID of spoon cup @ 5'-7' = 0.0 ppm
1720 - Capt. Wickman on site
1725 - " " off site
1730 - Complete on site
1735 - Decon'ed old bottles/vials
1755 - Traveled to Decon pad
1810 - Departed for Hotel

VOID ITEM

[redacted] 27 Oct 94

NO ENTRIES
27 OCT 94

FRIDAY, OCT 28, 1994

WX: Increasing clouds today as cold front moves in from NW. High in mid-60's
WIND: 20-30 mph from SW
Risk of precip tomorrow A.M.
Sunny on Sunday, but chilly
0700 - ON Site @ Decon pad
0710 - Calibrated PID w/ 15ppm Isobutylene. PID Serial # NAS90204
ISO Lot # 3-188, 7/15/94
0715 - Marie calibrated LEL
0730 - Drillers working on Decon PAD
Rueben + Mauk departed for ice
0745 - Moved to Site 04-004PZ, at corner of CE + Fire Dept. Near site of old pipeline break.
0750 - Rueben back w/ ice
0755 - LEL in place
0800 - H+S Briefing
ATTENDEES: Rueben, Jeff, Craig, Brian, + Steve
Subjects: All Visit items, Slipping hazard (mud), this is the old pipeline break location, watch olfactory clues.

LAST ITEM

28 Oct 94

NO entries
Friday — 28 Oct 94

FRIDAY, 28 Oct 94

0807 - Ambient Air at Sample table = 3.9 to 4.3 ppm.

0813 - PID of hole @ Surf - 1' = 0.5 ppm (has been corrected)
PID of Spoon cap @ Surface - 1' = 6.7 ppm
[Ambient Air = 3.7 ppm] -3.7 ppm
Corrected PID = 3.0 ppm
Current Temp = 43° winds from SW @ 10 mph

0825 - PID of hole @ 1'-3' = 1.4 ppm
PID of spoon @ 1'-3' = 34.4 ppm

0832 - PID has dropped back to 4.4 ppm ambient air. Now 4.0 ppm

0846 - PID of hole @ 5'-7' = 9.6 ppm

0850 - PID of spoon cap @ 5'-7' = 26.1 ppm

0911 - Ambient Air = 2.2 ppm
Temp = 48° - Steady SW Wind @ 15 mph

0912 - Problem w/rig - drive cap won't come off top pipe. Pipe wrenches wont bite - are too old & worn.

0931 - Drillers off site to hardware store to get new wrenches.

1000 - Drillers back - New wrenches. Got problem fixed.
Ambient Air = 0.0 ppm Temp: 50°F

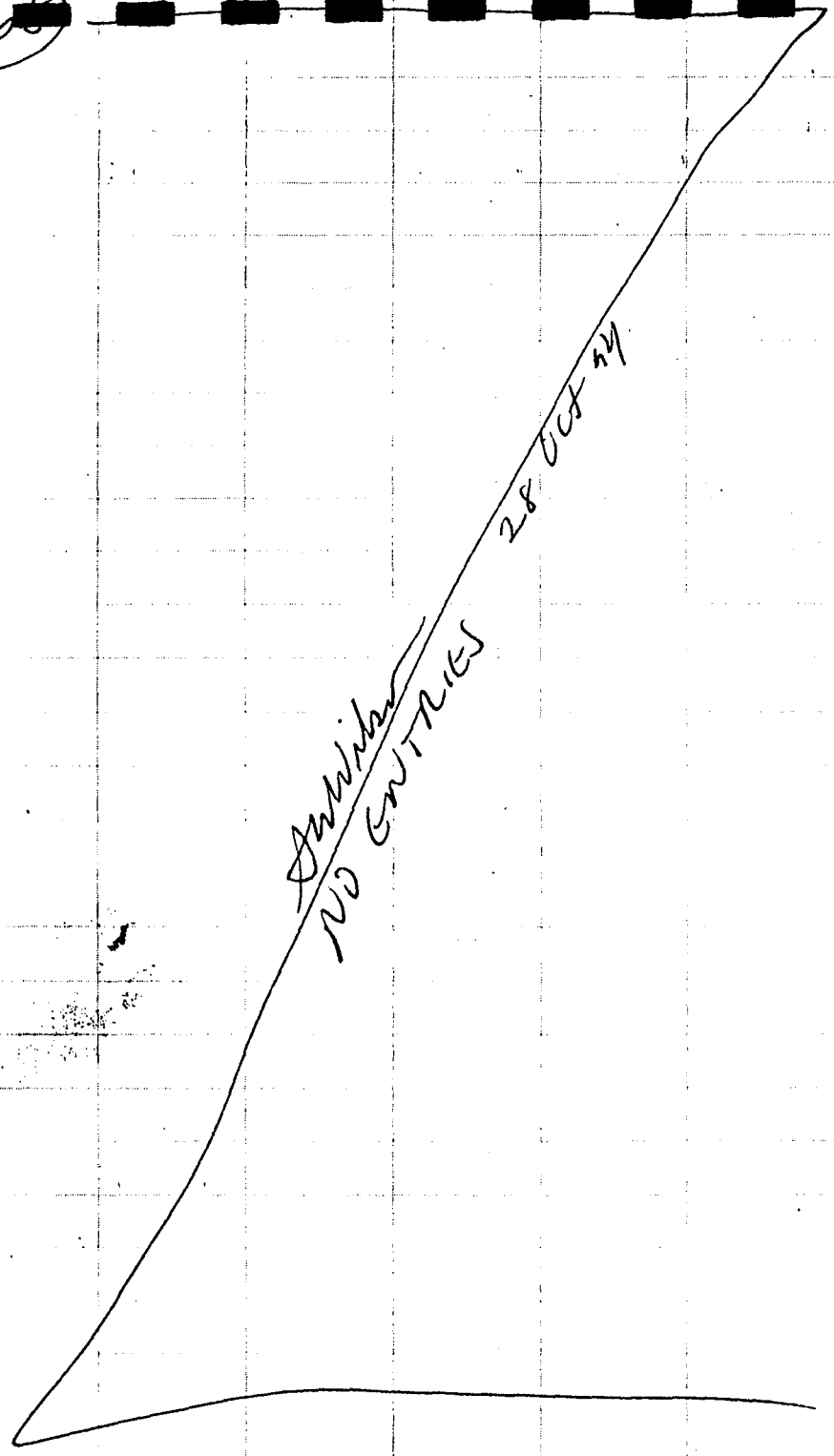
28 Oct 94

NO ENTRIES
Smith 28 Oct 94

FRIDAY, 28 Oct 94

1001 – PID of hole @ 8'-10' = 2.8 ppm
PID of spoon cup @ 8'-10' = 0.7 ppm
NOTE: Sample is wet.
1010 – Are punching down to 16' to set PZ.
1018 – Wind is picking up – est: 15-20 MPH + gusty Temp is 50° – Overcast
1023 – Pushed well (PZ) into hole w/ hydraulic assistance. Reached bottom (16') w/ no problem. Took pics.
1039 – Moving to Site | Ø4-Ø25PS
1040 – Visited by Bob Klepper, Fireman. Just curious what we're doing. I talked to him + he departed @ 1042
1054 – Drillers back from decanning.
1101 – LEL in place. PID reading Ø.Ø ppm
Temp: 57°; Wind strong fm SW @ 15 mph
1104 – PID of hole @ Surface-1' = Ø.Ø ppm
PID of spoon cap @ Surface-1' = Ø.Ø ppm
1111 – PID of hole @ 1'-3' = Ø.Ø ppm
PID of spoon cap @ 1'-3' = Ø.Ø ppm
1121 – PID of hole @ 3'-5' = Ø.Ø ppm
PID of spoon cap @ 3'-5' = Ø.Ø ppm
1140 – PID of Hole @ 5'-7' = Ø.Ø ppm
PID of spoon cap @ 5'-7' = Ø.Ø ppm

28 Oct 94



FRIDAY, 28 OCT 94

1143 — High of 63° expected today; Cloudy; Strong wind (Radio report): 61°
AMBIENT AIR @ Table = 0.0 ppm

1201 — Rig punched down to 12 feet; NO water — outside of barrel is dry on all parts.

1212 - Rig had continued on to 18' — hit water betw 12'-18'. Barrel wet on outside.
PID of hole @ 18' = 0.0 ppm

1215 - Driller poured small amount of sand (clean) into borehole to form steady pad at bottom. Sand bridged about 5' down. Had to re-erect rig + drive steel rod thru the bridge. Not successful.

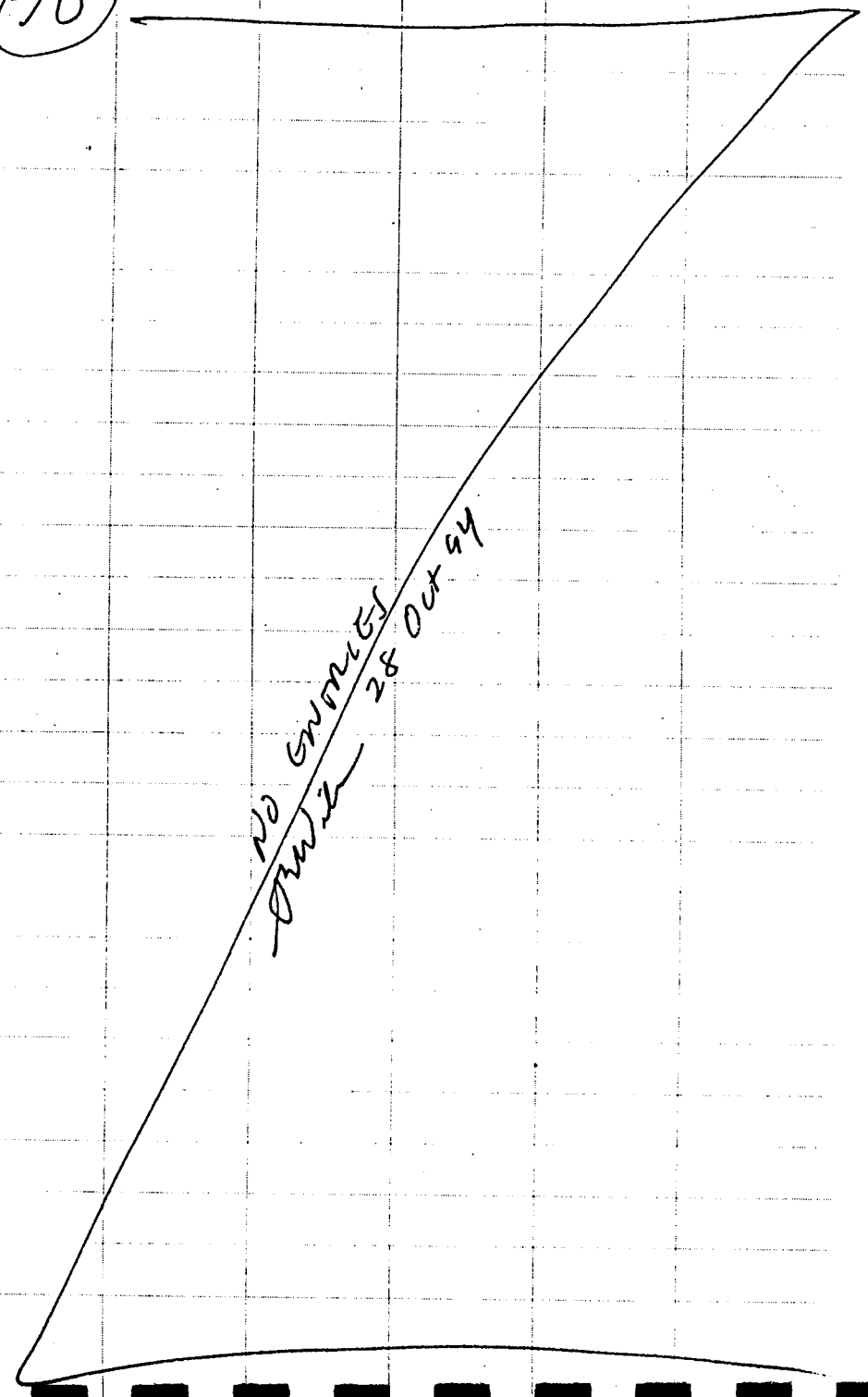
1246 - Decision had been made to redrill a new hole 1/2 foot away from the previous one to collect a soil sample at the 10'-12' level (above water table). Drillers decamped + drilled down to 10'-12'.

1247 - PID of hole @ 10'-12' = 0.0 ppm
PID of spoon cap @ 10'-12' = 0.0 ppm
Ambient air = 0.0 ppm at table

1248 - Temp = 60°; overcast; very windy (20-30 mph). Gusty.

1250 - Screen put down hole.

28 Oct 94



FRIDAY, 28 Oct 94

1303 – LEL Alarm. Plastic beneath rig had blown up + plugged intake hole. Choked off O_2. While repositioning + cleaning LEL, noticed hydraulic leak under rig. Brought to attention of Craig. They will clean/fix at decon pad.

1304 – Mark E. called MATT in response to page. Cell phone quit in middle of conversation. Was not recharged last night.

1320 – Hole 04-025PS collapsed again (3rd time). Could not get PVC down. Decision made by Site Mgr to abandon. Will notify AWCRC.

1330 – ~~LUNCH~~ 9 AM 04-02~~X~~PS.

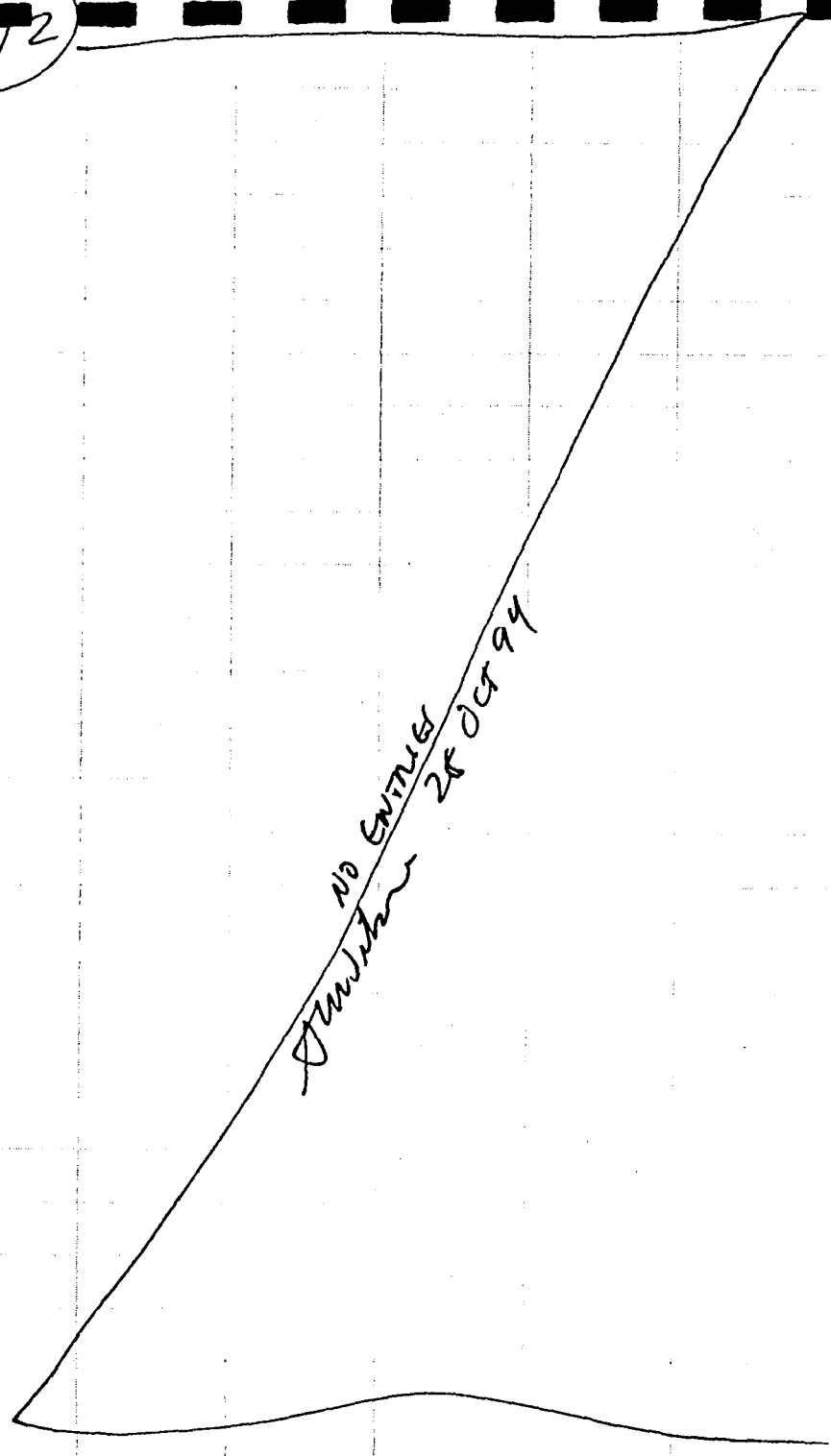
1430 – ON site Warmed up PID – reading 3-Ø ppm – UNSAT

1432 – Recalibrated PID with 75 ppm Isobutylene. Serial # NA89Ø2Ø4. Iso lot # 3-188, 7/15/94.

1450 – Confirm: We are at 04-Ø29PS. Temp: 60° Wind 20-30 mph (very strong) Overcast conditions.

— LAST ITEM —

28 Oct 94



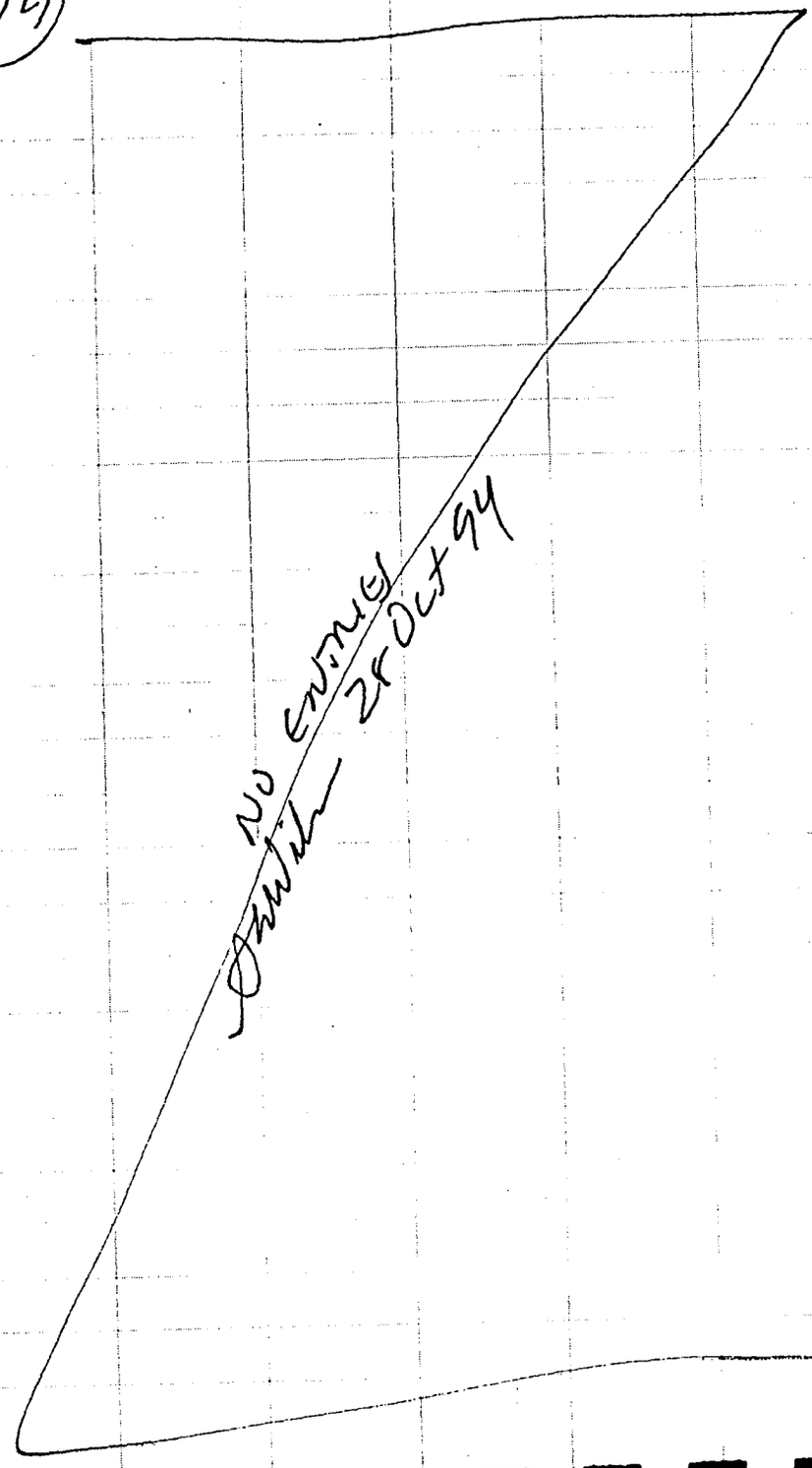
FRIDAY, 28 Oct 94

1515 - PID of hole @ surf-1' = Ø.Øppm
PID of spoon cap @ surf-1' = Ø.Øppm
1537 - PID of hole @ 1'-3' = Ø.Øppm
PID of spoon cap @ 1'-3' = Ø.Øppm
1540 - PID not as responsive as usual. Checked in exhaust - needs recalib.
1543 - Recalibrated PID w/ 75ppm Isobutylene. PID Serial No. NH890204 ISO Lot 3-188, 7/15/94. Checked in exhaust - deflects rapidly now.
1544 - PID of hole @ 5'-7' = Ø.Øppm
PID of spoon cap @ 5'-7' = Ø.6ppm
Ambient air @ back of rig = Ø.Øppm
1556 - Brought out other PID & calibrated it. PID # NA980184. Isobutylene @ 75ppm, Lot 3-188, 7/15/94.
1600 - Ambient air = Ø.Øppm. PID looks very good - very responsive.
1605 - Leaving this hole. Breaking down site.
1615 - Stopped at CSC. Coordinated crossing of November taxiway & our presence behind the FC-135 ramp

LAST ITEM -

[signature] - 28 Oct 94

(14)



FRIDAY. 28 Oct 94 (15)

1648 — Plans changed. NON moved to 04-030RS.
PID of hole @ surface - 1' = 0.5 ppm
PID of spoon cap @ surf - 1' = 2.3 ppm
Ambient air = 0.0 ppm
1651 - Getting odors from adjacent POL (refueling) area. PID goes up to 0.6 ppm + back down.
1653 - PID of hole @ 1'-3' = 1.9 ppm
PID of spoon cap @ 1'-3' = 1.1 ppm
Ambient AIR = 0.2 ppm
1658 - PID of hole @ 5'-7' = 1.8 ppm
PID of spoon cap @ 5'-7' = 2.2 ppm
Ambient air = 0.3 ppm
Samples are saturated in spoon.
1725 — Broke down site 04-030RS.
Plan is to come to base SAT A.M. + punch 2 holes. Methanol is limiting factor. If meth arrives (it has been shipped by drillers) we will continue all day. If NOT will terminate @ noon.
1730 — Left for hotel
LAST ITEM

28 Oct 94

NO ENTRIES
29 Oct 94

SATURDAY, 29 OCT 94

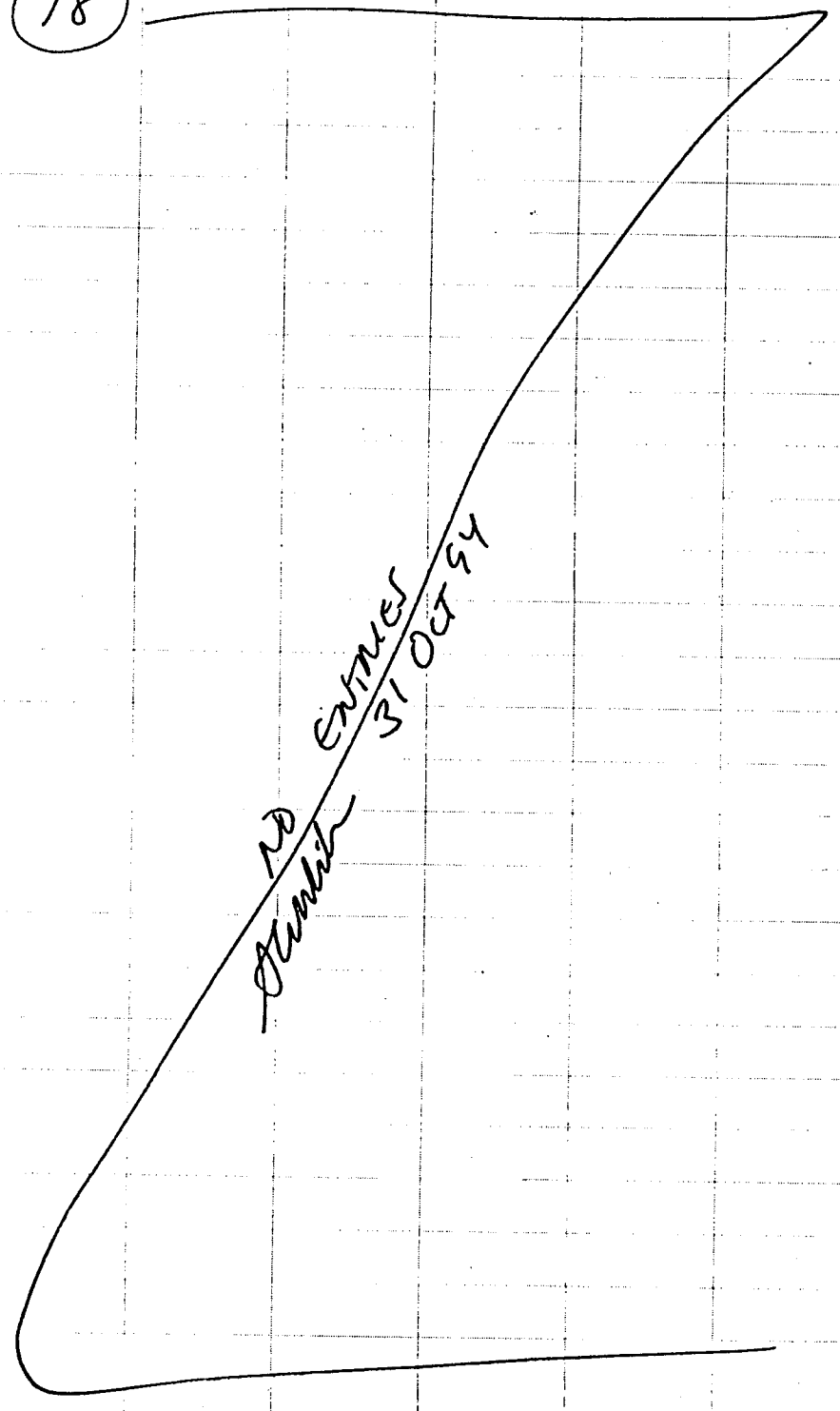
DID NOT WORK — BACK SPASMS
STAYED IN HOTEL ALL DAY

SUNDAY, 30 OCT 94

NO WORK.
Rueben Portales departed for San Antonio
Dr. Andrew Railing (?) to arrive in late afternoon
He will be on-site geologist.

WAIT, TOM

30 Oct 94



MONDAY, 31 OCT 94

WX: Cloudy + occasional light rain today
Lower 50's = Temp 5:00AM: 47°
light West to Northerly winds @ 10-15 mph
SUNRISE: 0545 SUNSET: 1645
TUES: SUNNY 45°-50°, BUT WINDY

0545 - Departed Hotel for base
0600 - On base at Decon pad.
Note: New geologist is Dr. Andrew Roring
0620 - Calibrated PID, Serial # NA890204 with 75ppm Isobutylene, Lot J-188, 7/15/94. PID calibrates O.K.
0744 - Decon continuing on pad w/ drillers
0747 - H&S Briefing
ATTENDEES: Andrew, Craig, Brian, Mark, + Jeff
Subjects: All V/INT items (more in depth for Andrew). Watch mud slipping hazards. Talked about WX, which is a light drizzle; Wind calm
0805 - Stopped by CSC. Talked w/ Mr. D. Grabowski. No flying today. Can move outboard of ditch, but must coordinate thru C.E. (Capt Wickman). FAA controls property (or

D. Wilson 31 Oct 94

No entries
[signature] 31 Oct 94

at least the Airport Authority. Must get clearance before going outboard of the ditch.

0820 - Warmed PID, having returned to PZ-04 location. PID reading 26.7ppm.

0821 - Recalibrated PID w/ 100 ppm Isobutylene, Lot No. UNK, Manufacturing date 12/93. PID NOW reads 0.0ppm PID serial # NAS90204.

0824/29 — Sgt Weber, Security Police boundary patrol, stopped by ramp access area to outboard side of ditch. I talked to him about access. He sez crossing taxiway + keeping to ditch is O.K.

0855 - Moved convoy across taxiway + relocated to 04-003PZ. Set up.

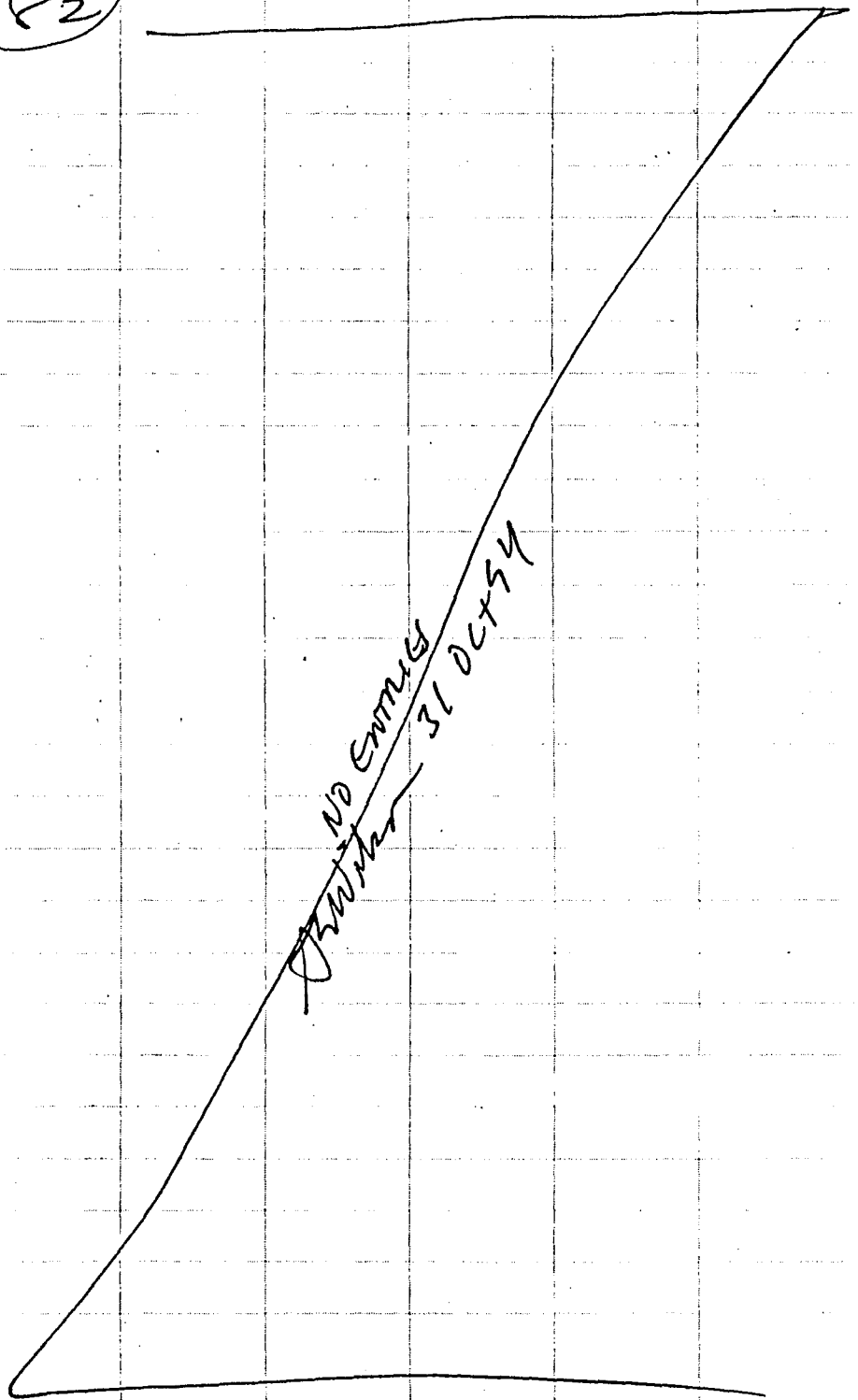
0904 - Spoon driven from surface - 1'.

0905 - PID of hole @ Surf - 1' = 0.0ppm
PID of spoon cup @ Surf - 1' = 0.0ppm
NOTE: LEL is in place + reading Normal.

0909 - PID of hole @ 1'-3' = 233 ppm
PID of spoon cup @ 1'-3' = 0.0 ppm
AMBIENT AIR = 0.0ppm

0918 - PID of hole @ 3'-5' = 237 ppm

[signature] 31 Oct 94



Monday, 31 Oct 94

0922 – PID of spoon cap @ 3'-5' = 653 ppm
Ambient Air = 0.0 ppm
WX: High overcast; gray; NO rain; Wind calm; temp = 50°
0928 – Lt Drizzle begins
0930 – Spoon coming up from 5'-7'. PID of ~~ex~~ tension = 25.7 ppm. Can smell spoon.
0935 – PID of hole @ 5'-7' = 1,485 ppm
0936 – PID of spoon cap @ 5'-7' = ~~784~~ ppm
AMBIENT AIR = 0.0 ppm
0947 – Driving spoon from 14'-16'
1003 – PID of hole @ 14'-16' = 1,285 ppm
Can smell product.
1104 PID of spoon cap @ 14'-16' = 448 ppm
1015 – Keys locked in Rental Car. Security Police on site to assist. Could not. City of Cudahy does not provide lock assistance.
1020 – Traveled to SP office. Called several rental car agencies. National owns car. Will be sending rep to base w/ keys to unlock.
1116 – Returned to PZ-1 site.

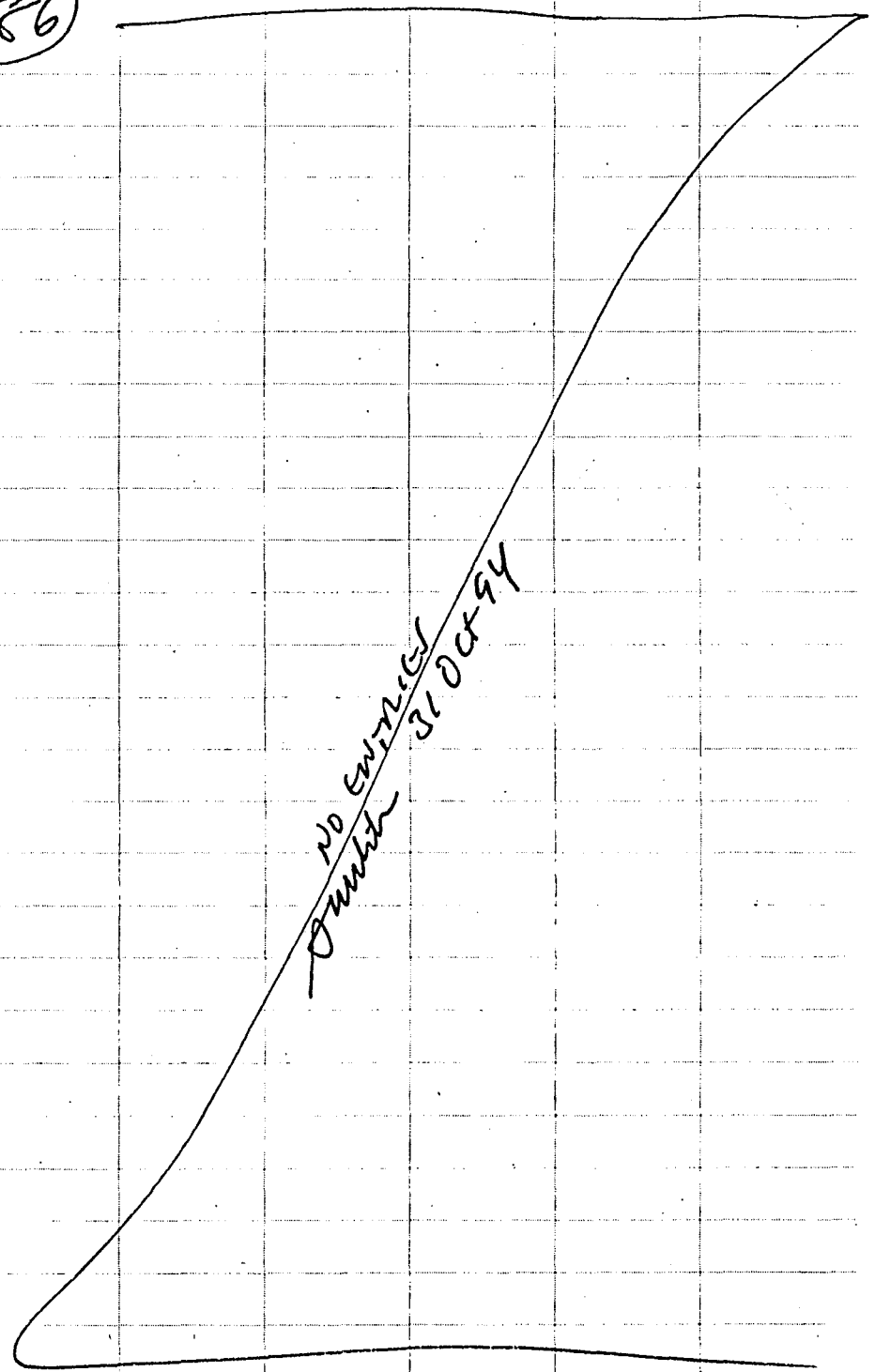
31 Oct 94

NO SWIMMING
31 Oct 94

MONDAY, 31 Oct 94

1117 - Are drilling 5'-7'.
1125 - National Car Rental on site to unlock rental car.
1138 - PID of hole @ 16' = 0.0 ppm
1134 - PID of spoon cup @ 16' = 0.0 ppm
1146 - ATHA of 04-003PZ @ 5'-7' = 187 ppm
1147 - ATHA of 04-003PZ @ 3'-5' = 527 ppm
NOTE: Would smell both ATHA samples when being opened.
WX: Rain is steady: Wind very slight. Still heavy overcast
AMBIENT AIR: 0.0 ppm
1200 - LUNCH
1320 - On site @ 04-002PZ
1323 Sun - Calibrated PID # NAB90 204 w/100 ppm isobutylene (12/93)
1354 - Rig Broke - Push/pull pin snapped. Drillers need to go get welded. Will have new one sent tomorrow too. Freak break - have never seen one break before.
1355 - PID of spoon cup @ 1'-3' = 0.0 ppm
Ambient air = 0.0 ppm

31 Oct 94



MONDAY, 31 Oct 94

1405 – WX: Cloudy (overcast); Rain; 47° / Wind from N/NW @ 15 mph
1456 – Driller back on site w/welder push/pull pin. Drilling resumed. PID warmed up. Ambient air = 0.0 ppm
1502 – PID of hole @ 5'-7' = 0.0 ppm
PID of spoon cap @ 5'-7' = 0.0 ppm
WX: Steady rain (not a drizzle) + Wind has picked up – getting colder.
– NOAA WX BROADCAST: occasional rain showers across S.E. Wisconsin. Temps in 40's-50's. Rain ends after midnite. Forecast – Winds becoming N/10-15 mph Hi Temps in lower 50's + rain. Currently: 45°
1530 – Called On-Site about failure of second PID. They diagnose a blown fuze in the battery pack. Will send new PID to hotel tonite, for tomorrow arrival. We will send PID back to them.
1538 – Broke down site. Will go sample wells until dark.
1547 – Returned to Decon Pad.
1550 – Watched drillers decon

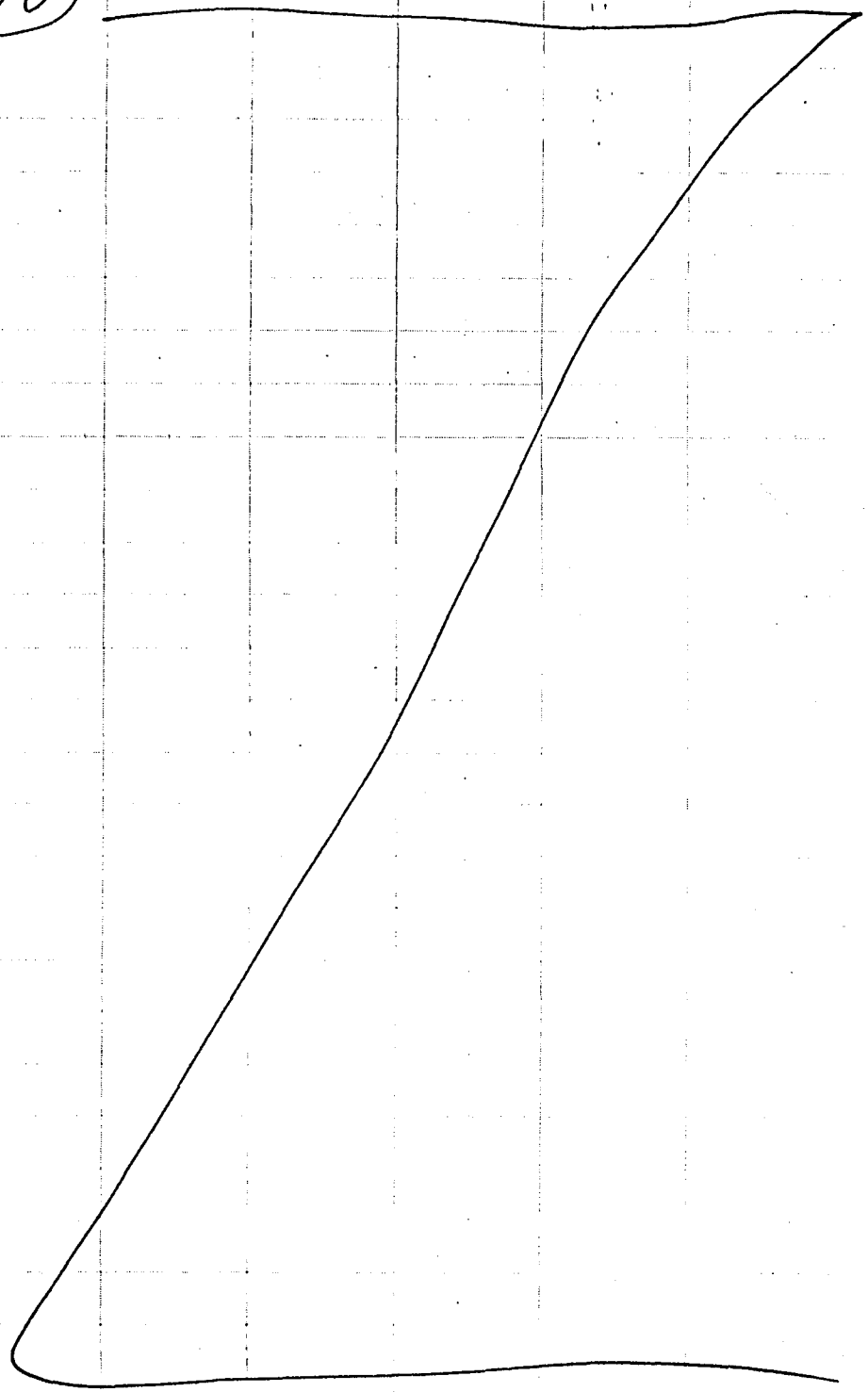
31 Oct 94

NO ENTRIES
31 Oct 94

1610 - Moved to PZ-04 to perform purge ops.
1620 - Purging underway - very little water - is very silty
1640 - Back @ Decon pad w/ drillers
1655 - Off site for Hotel - is DARK

LAST ITEM

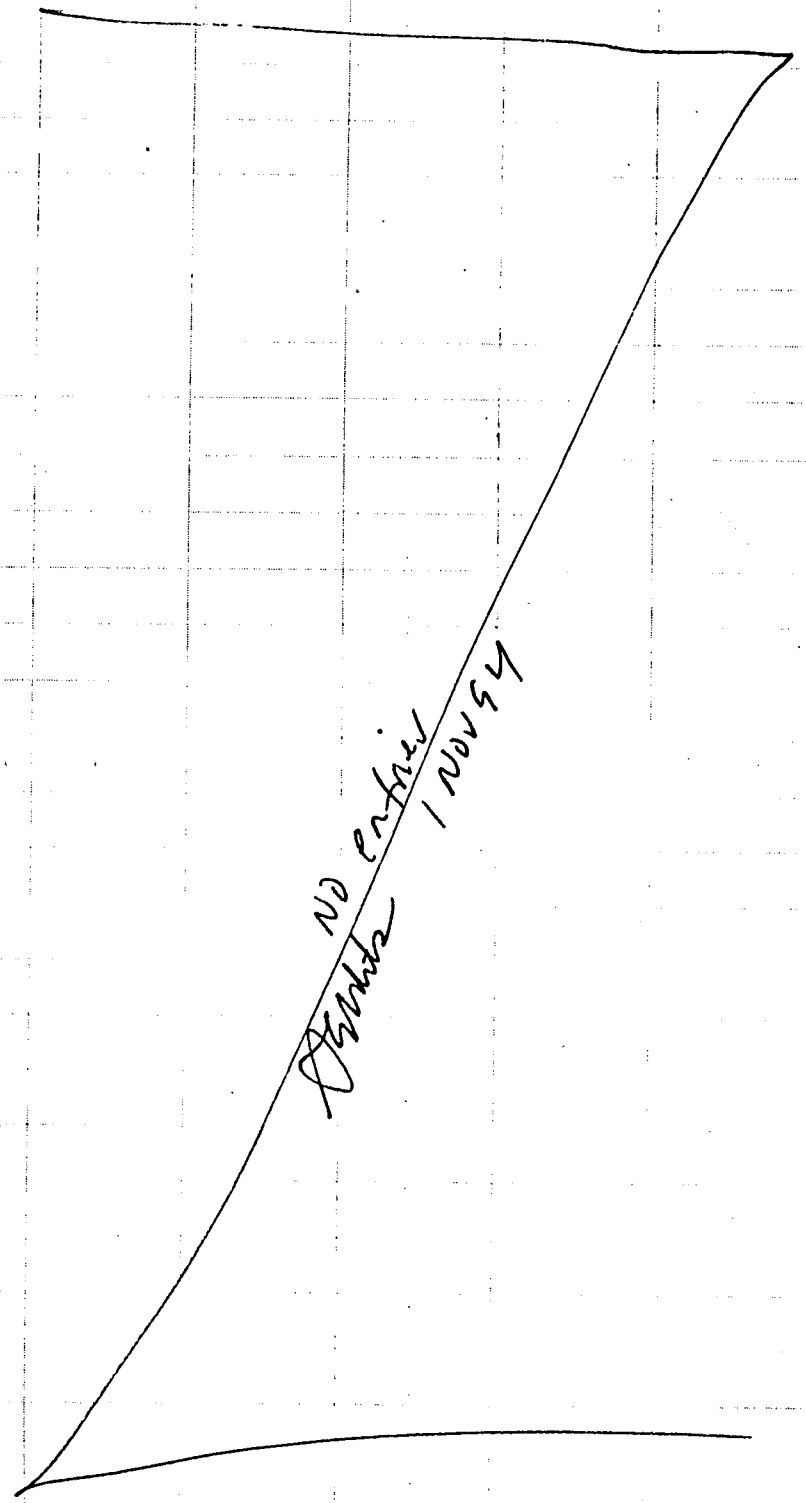
31 Oct 94



Tuesday, 1 NOV 94

Sunrise: 0626 Sunset: 1644
WX Today: Hi pressure moving thru today. Expect more sunniness. Lo coming thru tomorrow - colder + windier.
TODAY - mostly sunny; high in 50's
N. Winds 15-25 mph + gusty
0628 - H+S Briefing
Attendees: Mark, Jeff, Craig, Brian, + Andrew
Subjects: All V items. Emphasis on WX
0610 - Calibrated PID w/ 100 ppm isobutylene.
PID Serial # NA840204. ISO: 12/95
PID Reading Ø.Ø ppm.
0625 - Drillers trying to get key to Bldg
0635 - Stopped by CSC to V on A/C movement
KC-135 sked out at 1000. Need to coordinate our ops accordingly.
0642 - On site @ PZ-Ø4.
0650 - PID upon opening = Ø.4 ppm
0710 - Craig, Brian + I will move to PZ-Ø2 + purge.
0715 - moved out.
0724 - At PZ-02 Large fox in area.
WX: Hi overcast; very windy; Temp in 40's
LAST ITEM

1 NOV 94



0727 – PID upon opening of PZ-02 = 24.3 ppm. Ambient = 6.5 ppm, ∴ corrected reading = 17.8 ppm

0728 – Water level = 6.9' from top of casing. Casing = 0.9 AGS. ∴ 6' BGS is current water level.

0733 – PID started to read erratically. Recalibrated Serial # NA 890204 with 100 ppm isobutylene (12/93). Now reading 0.0 ppm + steady

0737 – PID during purging: 1.0 ppm

0742 – Purging complete.

0748 – Moved across November taxiway (FOD'r) to PZ-01 location.

0750 – PID upon opening: 0.0 ppm
AMBIENT AIR: 0.0 ppm

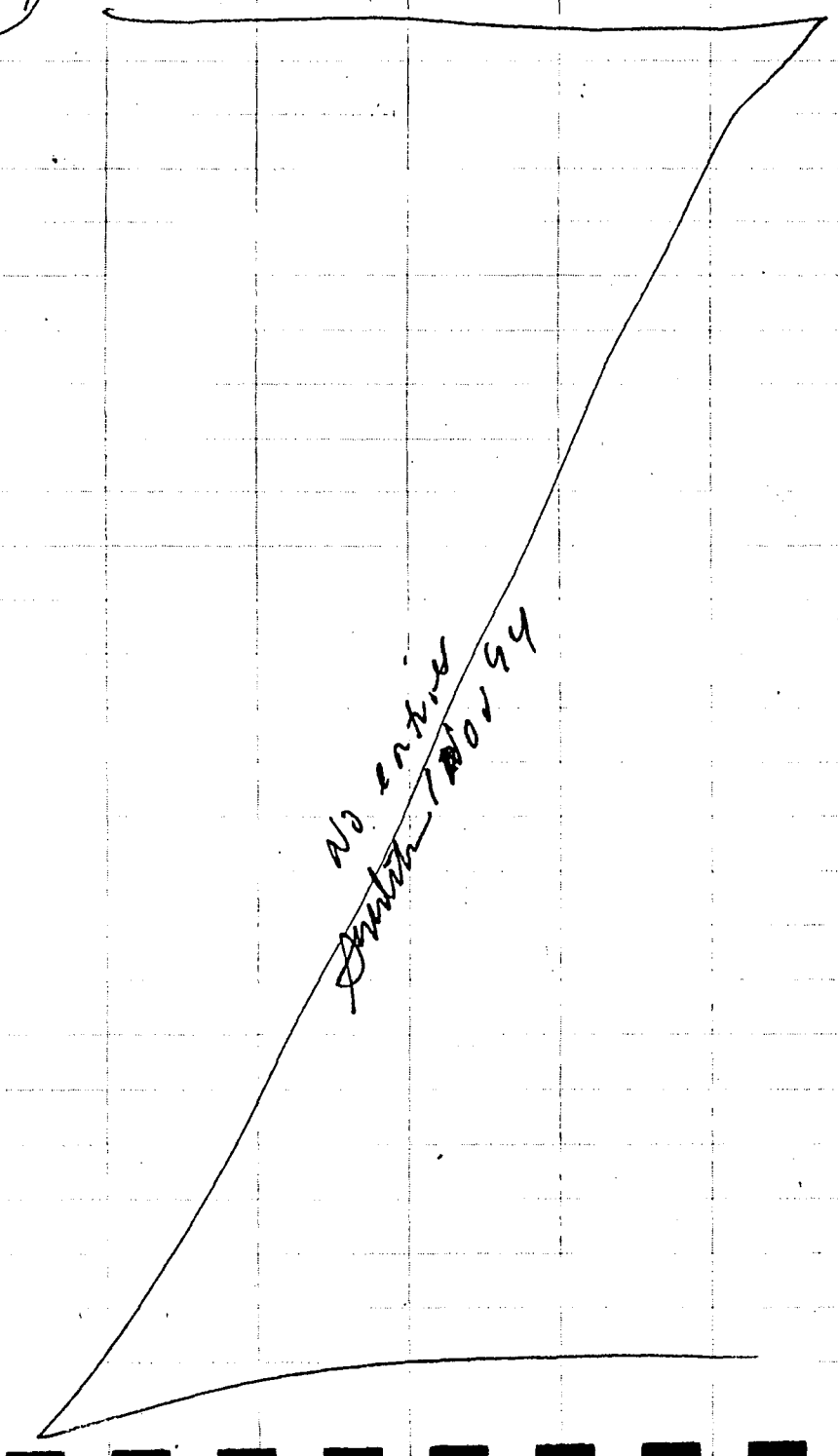
0756 – Water level of PZ-01:
7.35' from top of casing –
14.7' to bottom (mud) of well
1.2' from casing to ground
∴ Water = 6.15' BGS at PZ-01

0802 – Purging begins.

0817 – Purging ends.

0820 – Drillers decon'ing

1 Nov 94



Tuesday, 1 Nov 94

0830 - Moved to pkg lot across from PZ-03. Drillers will cross taxiway & come around ditch to location across from us.

0841 - Drillers moving out.

0845 - Drillers on site

0846 - PID upon opening: 1216 ppm Ambient air = 0.0 ppm. PID acting Normally.

0849 - Water level: 4.3' from top of casing. Well is 15' deep. Strong smell of gasoline on water level. Casing is only 3" out of ground.

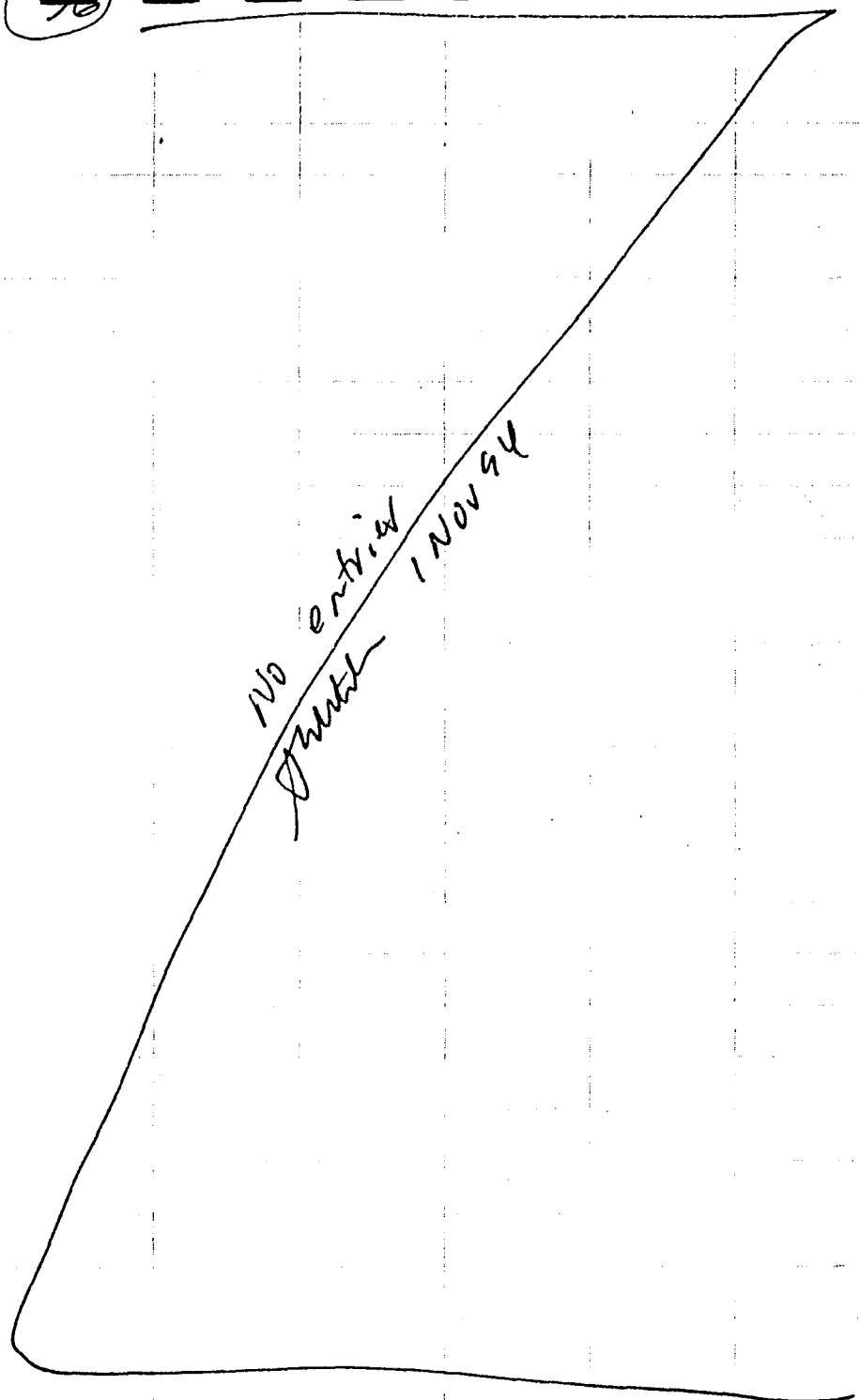
0900 - Put decon'ed steel rod down hole to break (sand bridge?) loose - PID after withdrawal of rod = 2,223 ppm Strong smell out of hole. Ambient air = 0.0 ppm

0901 - Purging begins.

Wx: Broken clouds; partly sunny; Temp = 40°F; Wind from North at 20 mph. Cold.

0928 - This PZ had filled with mud. The end of the purging screen would get stuck. Screen was removed & mud withdrawn by suction. Then purging restarted.

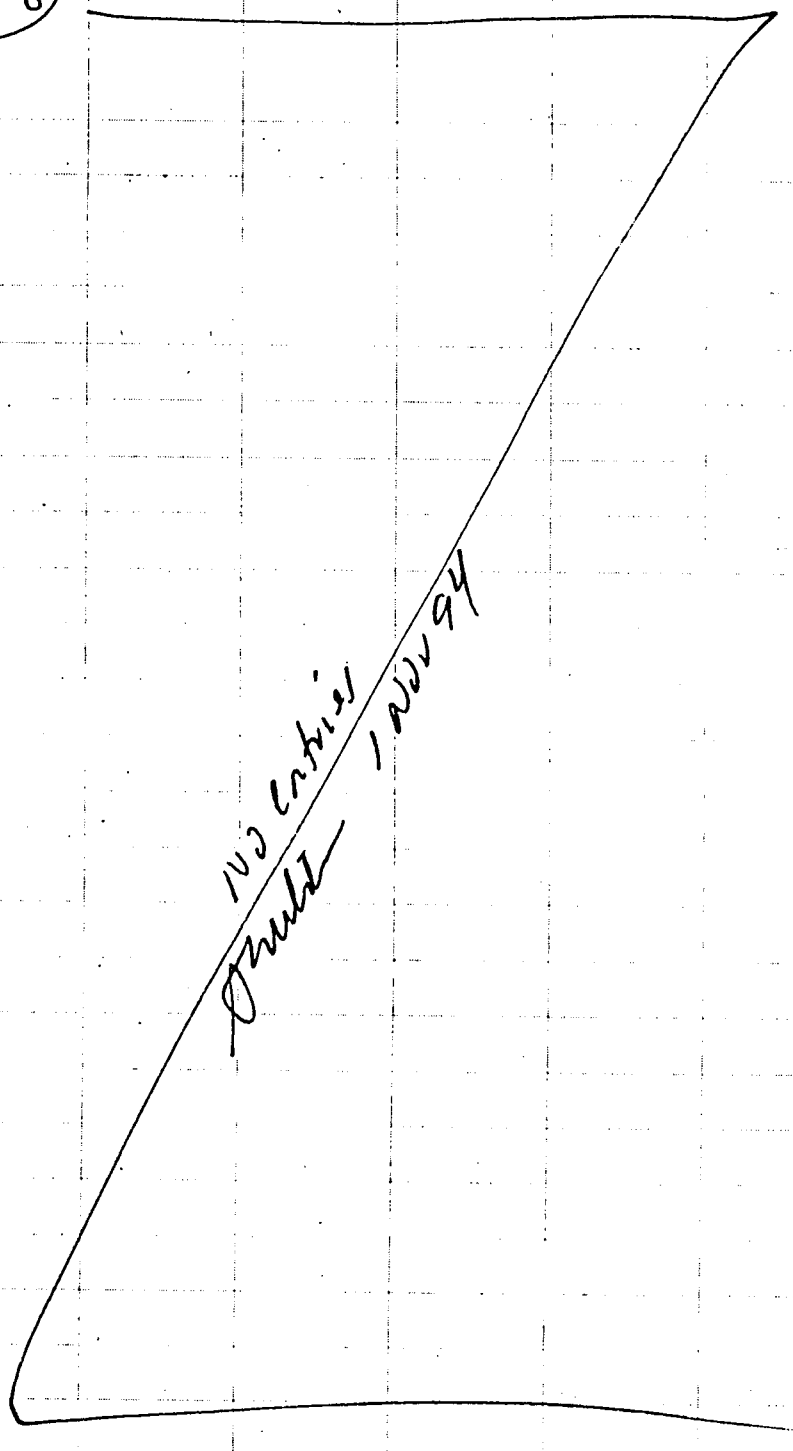
1 Nov 94



Tuesday, 1 Nov 94

0935 - Purging of PZ completed
0950 - Moved to site of 04-014PS
LEL in place. Rig in place.
1001 - PID of hole @ surf - 1' = 0.0ppm
PID of spoon cap @ surf - 1' = 0.0ppm
1005 - PID of hole @ 1'-3' = 105ppm
PID of spoon cap @ 1'-3' = 20.9ppm
1022 - PID of hole @ 3'-5' = 1,448ppm
PID of spoon cap @ 3'-5' = 1,228ppm
NOTE: spoon smells heavily of product.
1036 - Water level in ~~PZ~~ 04-015PS
= 2.9' BLS
1036 - Water Sample for GC analysis taken.
Water smells strongly of POL (gasoline?)
1047 - ATHA of soil @ 1'-3' = 18.7ppm
1112 - ATHA of soil @ 3'-5' = 1,446 ppm
1113 - Moved to 04-014PS. Site
Setup. Ambient air = 0.0ppm
1118 - PID of hole @ Surface - 1' = 0.0 ppm
PID of spoon cap @ surface - 1' = 0.0 ppm
1126 - PID of hole @ 1'-3' = 0.0 ppm
PID of spoon cap @ 1'-3' = 0.0 ppm
1131 - PID of hole @ 5'-7' = 29.7 ppm
PID of spoon cap @ 5'-7' = 473 ppm

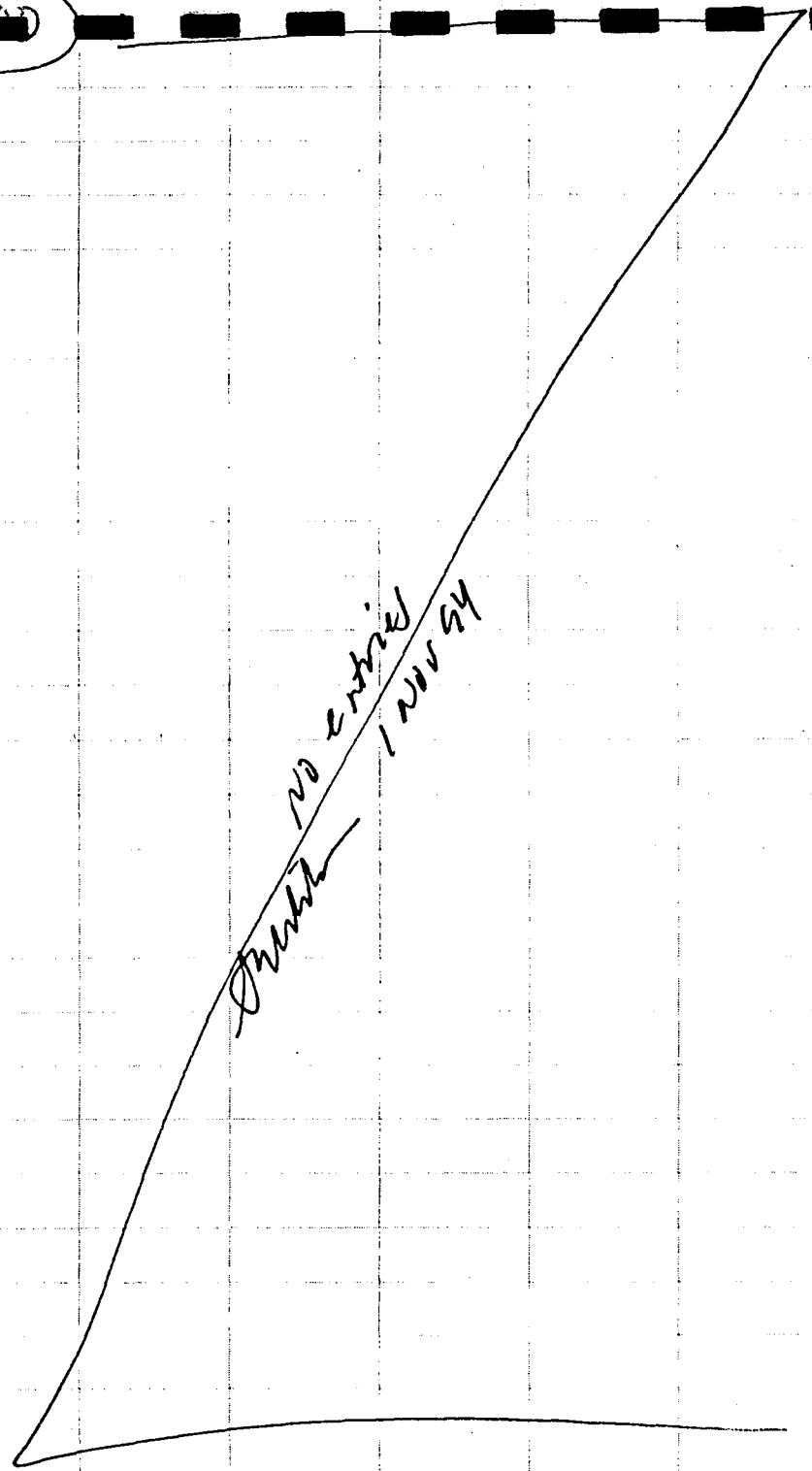
1 NOV 94



Tuesday, 1 Nov 94

1145 - PID of hole @ 7'-9' = 384 ppm
PID of spoon cap @ 7'-9' = 617 ppm
Samples are very wet.
1153 - Water level taken in 04-012PS
Water is @ 5' BW.
1156 - Water sample for field QC taken
Site broken down.
1157 - ATHA of soil @ 1'-3' = 0.0 ppm
ATHA of soil @ 7'-9' = 283 ppm
1200 - LUNCH
1310 - Stopped by CSC. No flying today until Nitefull. We're cleared to the west side of the ramp.
1326 - Arrived at 04-012PS.
1332 - Calibrated New PID, Serial # NA930182 with 100 ppm Isobutylene (12/93).
Ambient air = 0.3 ppm
04-012PS
1335 - PID of hole @ surf-1' = 2.0
PID of spoon cap @ surface-1' = 2.6 ppm
1342 - PID of hole @ 1'-3' = 40.2 ppm
PID of spoon cap @ 1'-3' = 3.2 ppm
WX: Sunny: Strong breeze. Temp: lower 50's. No precip

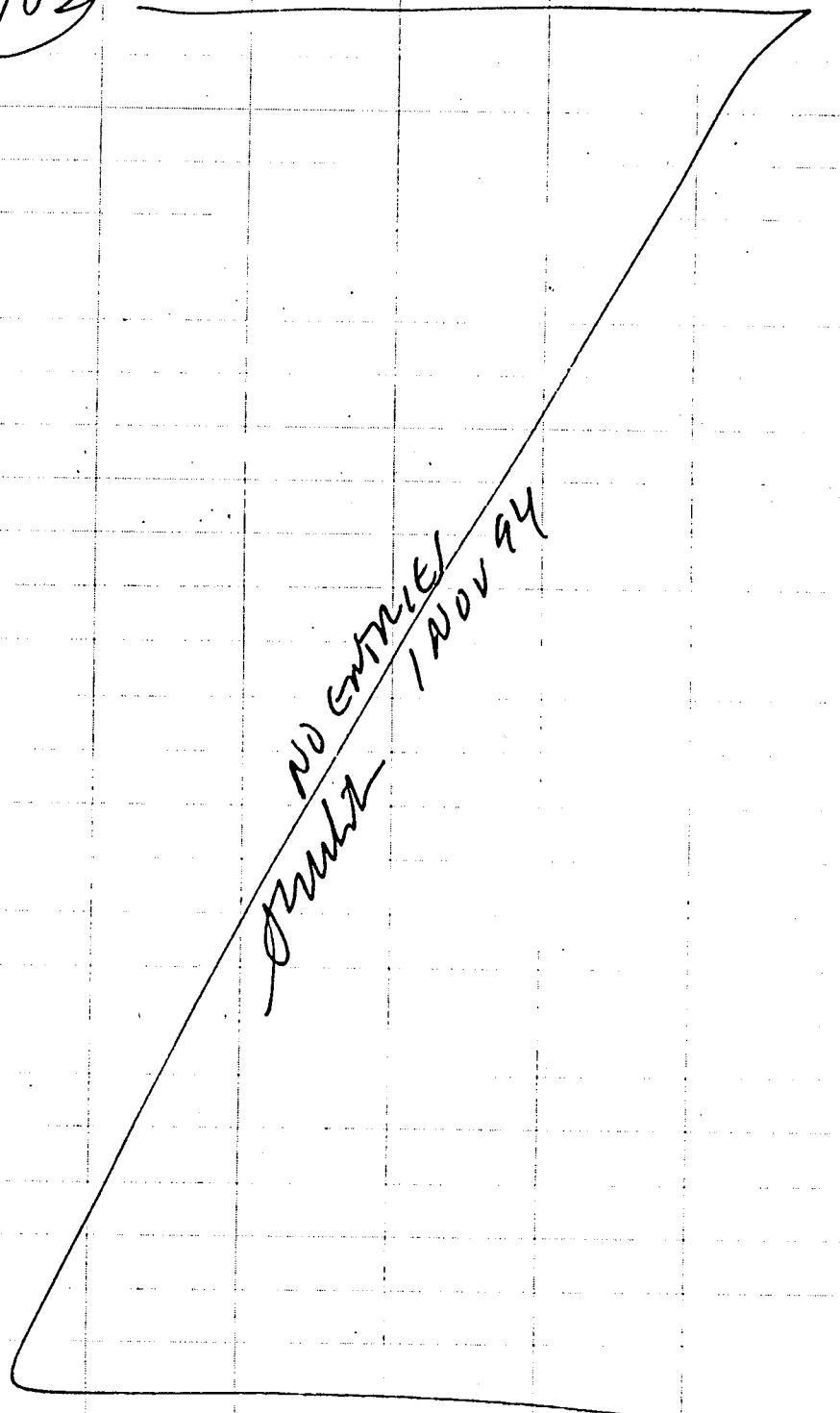
1 Nov 94



1349 – Ambient air = 0.0 ppm
1400 – NOAA Wx Broadcast (162.4 MHz) STATION KEC60.
+ Sunny this afternoon. Low pressure building in Canada. Will hit W. Wisconsin by Wed afternoon.
+ Sunny w/ high in low 50's: N-NW 10–20 mph
++ No precip thu + Fri. Chance of rain Sat.
++ 1300 – Temp 50° 56% humidity
Wind: NE @ 18 mph 29.78↑
1404 – PID of spoon cap @ 5'-7' = 2.0 ppm
PID of hole @ 5'-7' = 14 ppm
1416 – PID of hole @ 10' = 20.6 ppm
1417 – "LOBAT" indicator on new PID
Warmed up PID # NA890204
1418 – PID of "well" (pvc screen) @ 12'
= 84.1 ppm
1422 – Water sample for field GC collected.
1423 – Water level: 3' above land surface is the casing. Water is at 11.4' from top of casing.
∴ Water at 8.4' BLS (after bailing)
1426 – Completed work on 04-012 PS

LAST ITEM

1 Nov 94



Tuesday 1 NOV 94

1454 - Driller back from Decon. Moved onto 04-011 PS location.
1503 - PID of hole @ Surf-1' = 0.0 ppm
PID of spoon cap @ surf-1' = 0.0 ppm
NOTE: LEL in place @ 1500L.
Ambient air = 0.0 ppm
1505 - PID of hole @ 1'-3' = 0.0 ppm
PID of spoon @ 1'-3' = 0.0 ppm
1509 - PID of hole @ 5'-7' = 0.0 ppm
PID of spoon @ 5'-7' = 0.0 ppm
Ambient air = 0.0 ppm
1520 - Finished. Site Break down
1611 - Moved to 04-013 PS
LEL in place. PID Ambient air = 0.0 ppm. Table set up.
1617 - 1st spoon into ground
PID of hole @ Surface-1' = 0.0 ppm
PID of spoon cap @ Surf-1' = 0.0 ppm
1623 - "LOBAT" indication on PID
1628 - PID of hole @ 5'-7' = 0.0 ppm
PID of spoon cap @ 5'-7' = 0.0 ppm
Ambient air = 0.0 ppm
1633 - PID Dead
1641 - Water 2.4' Casing top to ground

1 NOV 94

NO ENTRIES
1 NOV 94

TUESDAY, 1 NOV 94

Water = 8.2' from top of casing
∴ Water is 5.8 ft BLS at
04-013PS @ 1642L
1645 - Site Breakdown completed.
Returned to Decon Pad
1710 - Departed Base for hotel

LAST ENTRY

1 NOV 94

NO ENTRIES
2 NOV 94

WEDNESDAY, 2 NOV 94

WX: PARTLY SUNNY TODAY; High in 50's; NO PRECIP; WINDS FROM S/SW @ 10-20 mph TOMORROW: FRONT COMING - chance of precip in afternoon. SR: 0627/SS: 1643

0600 - ON SITE @ DECON PAD

0615 - Calibrated PID w/ 100 ppm Isobutylene. PID Serial # AG90182 ISO DATED 12/93. PID operating O.K.

0640 - Stopped by site 04-026PS. Site is located in drainage ditch behind Fire Dept trailers. Site is underwater (3" of standing water) despite NO rain events. Site will have to be moved.

0645 - Moved to 01-018PS.

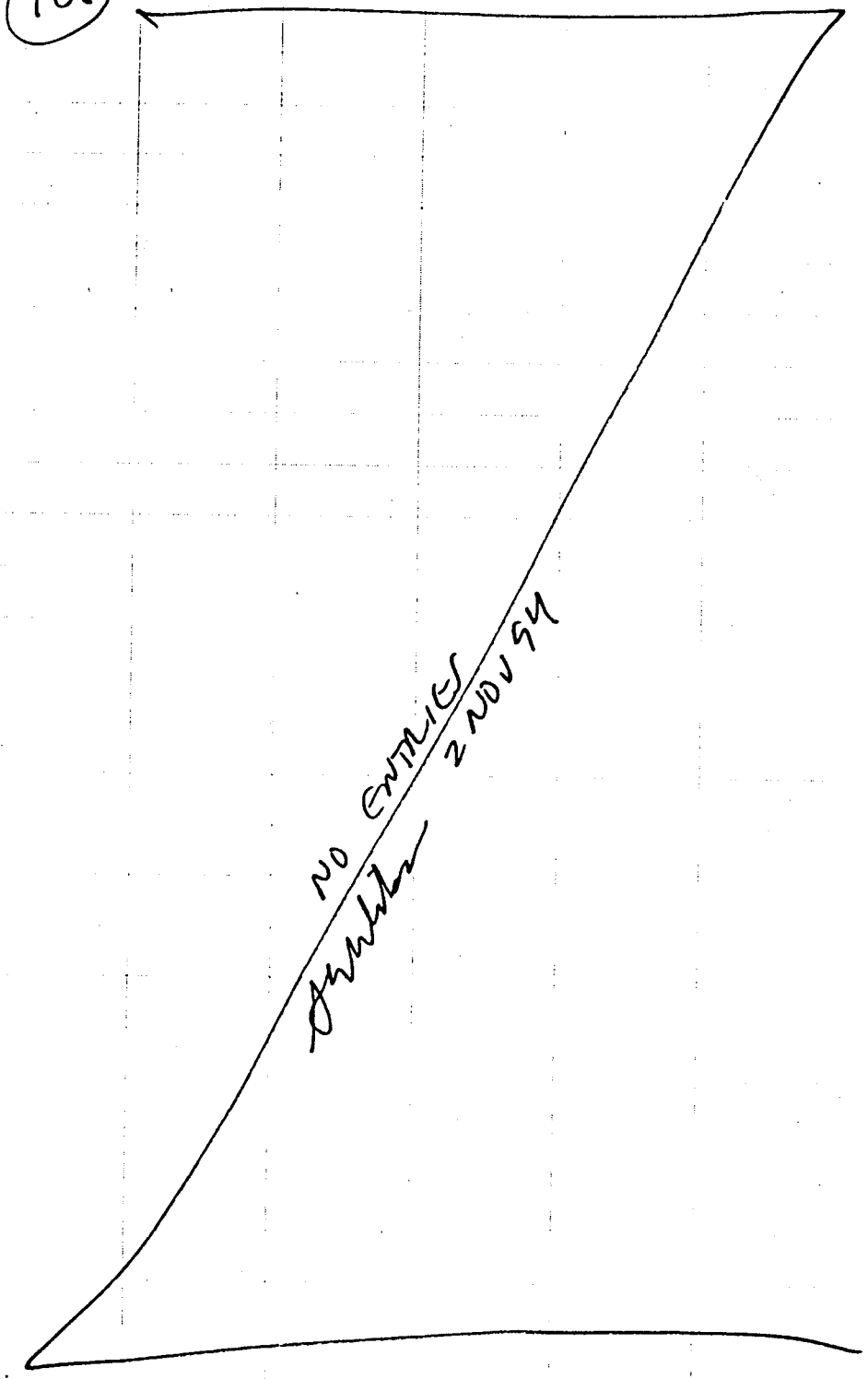
0652 - First spoon in ground.
Ambient Air = 1.1 ppm

0653 - PID of hole @ surf-1' = 1.1 ppm.
PID of spoon cup @ surf-1' = 1.3 ppm

0658 - PID of hole @ 1'-3' = 3.3 ppm
PID of spoon cup @ 1'-3' = 3.2 ppm
AMBIENT AIR = 2.0 ppm

NOTE: MISSED ENTRY: 0620 Health + Safety Briefing held @ Decon Pad.
ATTENDEES: Craig, Brian, Jeff, Mark, + Andrew

2 Nov 94



Hts subject: All Visit items. Extra reminder on wear of safety goggles

0705 - PID of hole @ 5'-7' = 402 ppm
PID of PID cap @ 5'-7' = 872 ppm

0710 - "LOBAT" INDICATOR ON PID

0715 - WARMED & CALIBRATED PID SERIAN # NA890204 W/ 100 ppm ISOBUTYLENE MANUF DATE 12/93.
AMBIENT AIR = 0.0 ppm

0721 - PVC in hole - rig moved away.

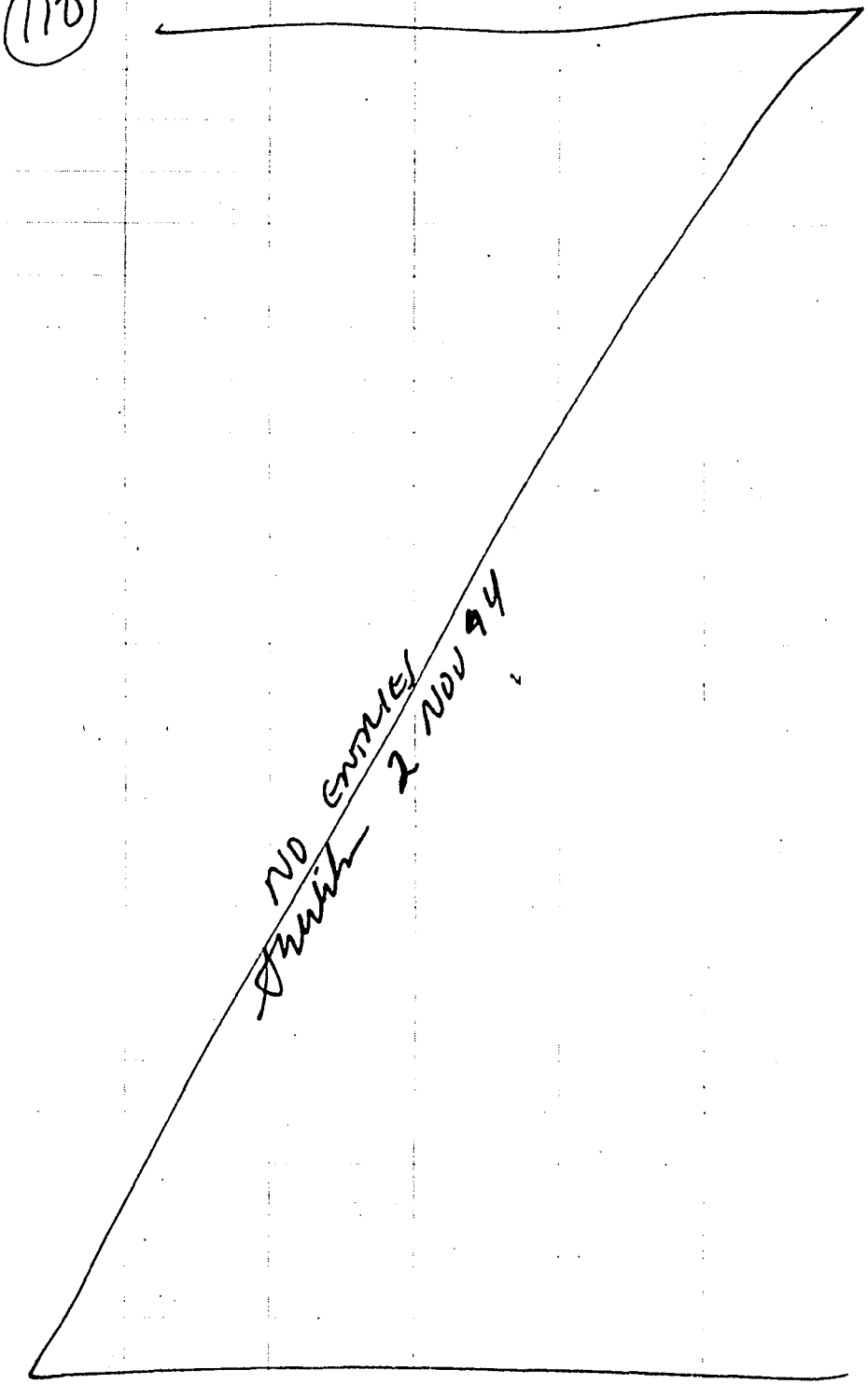
0723 - Water level: Casing is 4' AGS.
Water = 9.1 from top of casing to water.
∴ Water = 5.1' BLS @ 04-018PS.

0731 - Bailed well for samples for GC.
PID = 1,025 ppm. Can see free product on surface of groundwater sample.

0737 - SPOTS # 2 & # 5 - KC-135's moving this morning. That's the only flying activity today. Take offs within the next hour.

0800 - Informed by Drillers that rig is broken. Rear wheels are locked up and bolts have been sheared off. Major repairs are required. Craig wants to drill out bolts, replace them, & "see what happens."

2 NOV 94



WEDNESDAY, 2 NOV 94

0808 – Informed Jeff, who is @ front gate w/ surveyors. Jeff recommends getting QA/QC samples done (rinsate blanks) + ~~Sample~~ Purge PWs.

0815 – returned to parking lot where drillers are working on rear axle.

0900 – Bolts replaced in rear axle. Truck is fixed + operational

0911 – Moved to Ø4-Ø16 PS. Site setup.
Ambient air = 1.6 ppm at table.
At back of rig = 1.0 ppm

0917 – PID of hole @ surf-1' = 1.0 ppm
PID of spoon cup @ Surface-1' = 0.2 ppm

0920 – Ambient air now 0.0 ppm
PID of hole at 1'-3' = 10.6 ppm
PID of spoon cup @ 1'-3' = 47.3 ppm

0926 – PID of hole @ 5'-7' = 86.1 ppm
PID of spoon cup @ 5'-7' = No Recovery (wet)
WX: Hi overcast (partially broken); Strong southerly wind 10-15 mph; Temp in hi 40's. Partially sunny.

0927 – LEL V: Reading normal

0934 – Water: 3.2' BLS
PID of PVC casing = 268 ppm

2 NOV 94

NO ENTRIES
Thursday 3 NOV 94

Wednesday, 2 NOV 94

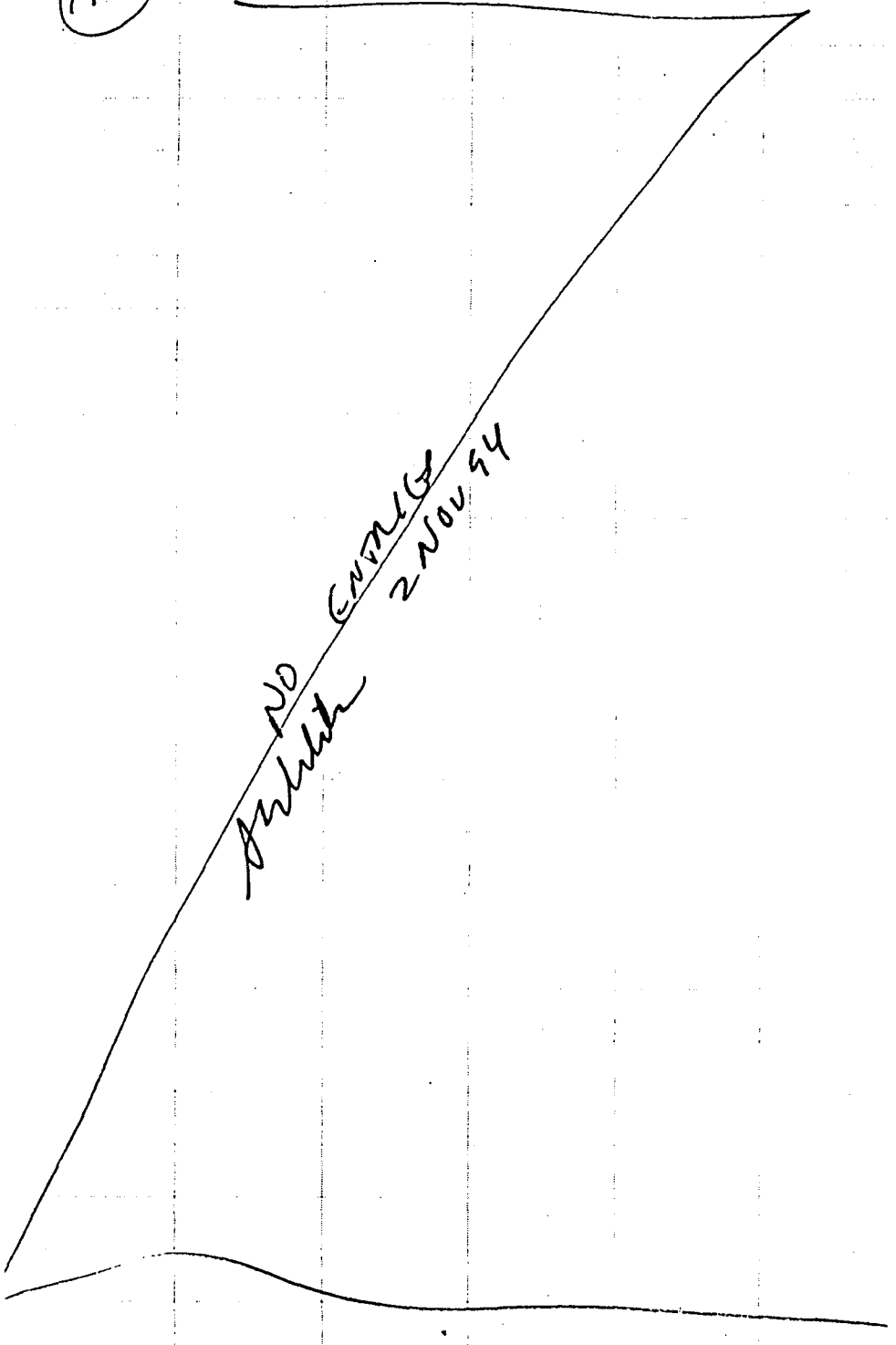
1000 - Moved to 04-017PS (IN STREET behind new firehouse)
1006 - Drilling of street begun. Ear protection required.
1018 - SPOON into ASPHALT HOLE
1019 - PID of hole @ surface - 1' = 0.0ppm
PID of spoon cap @ surface - 1' = 0.0ppm
1024 - PID of hole @ ~~1'-3'~~ 3'-5' = 0.0 ppm
1027 - Recalibrated PID Serial # NA890204 w/ 100ppm isobutylene, manuf: 12/93
1029 - PID of hole @ 3'-5' = 0.0ppm
PID of spoon cap @ 3'-5' = 0.0ppm
Ved PID in exhaust - OK.
1053 - PID of PVC pipe after boiling = 17.1 ppm
1059 - Site breakdown & patching of Street
1117 - Back @ 04-017PS w/ Craig. He is sealing this hole with granular bentonite with a cold asphalt cap.
1200 - Lunch
1315 - To hotel to pick up chargers
1320 - TO Site 04-024PS. Moved flag out of ditch (due to water)

2 NOV 94

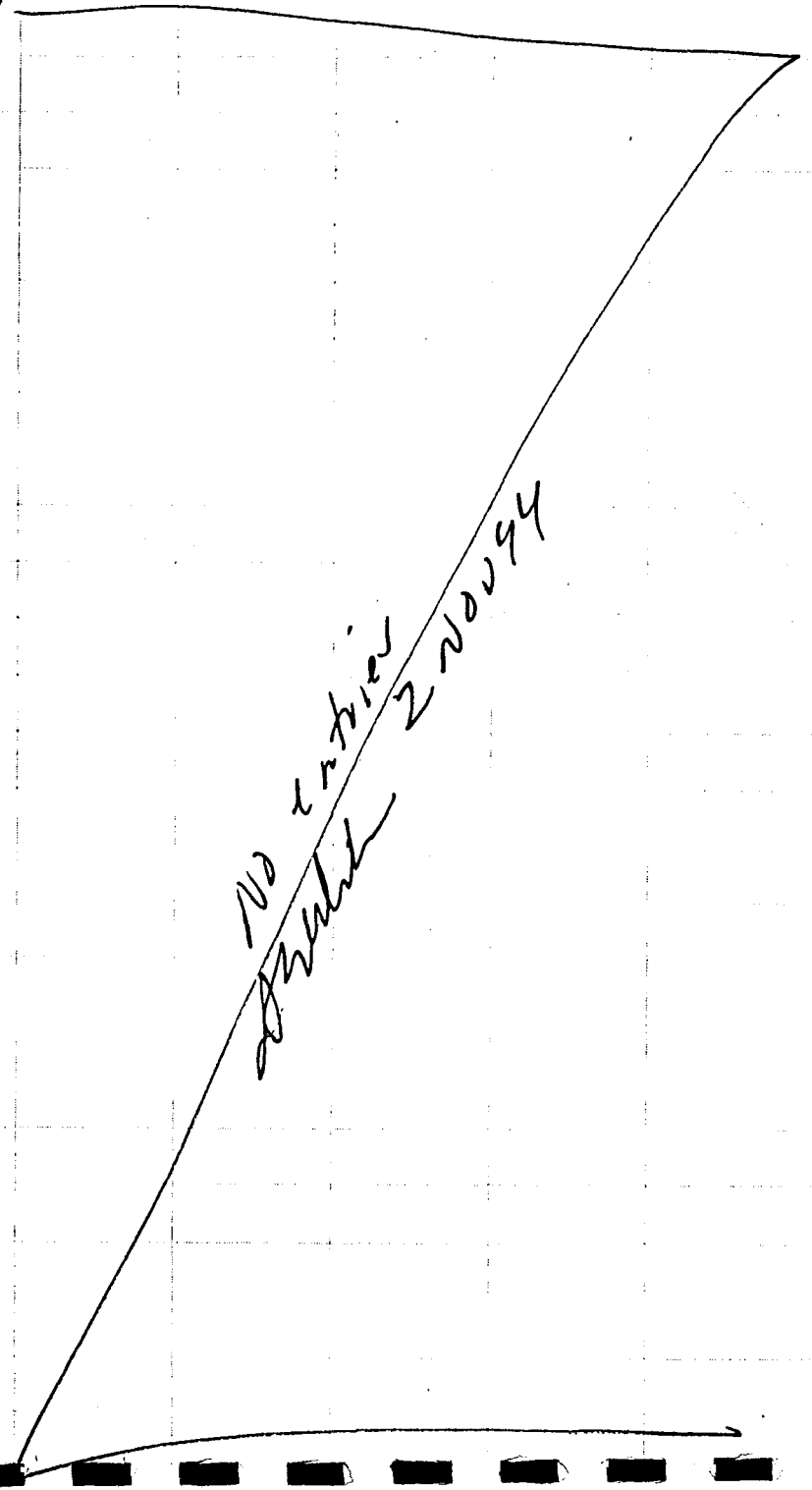
NO ENTRIES
Around 2 NOV 94

Wednesday, 2 NOV 94

1000 - Moved to 04-017PS (IN STREET behind New Firehouse)
1006 - Drilling of street begun. Ear protect required.
1018 - SPOON INTO ASPHALT HOLE
1019 - PID of hole @ Surface-1' = 0.0ppm
PID of spoon cap @ Surface-1' = 0.0ppm
1024 - PID of hole @ ~~1'-3'~~ Thaw = 0.0 ppm
1027 - Re calibrated PID Serial # NA890204 W/ 100ppm isobutylene, Manuf: 12/93
1029 - PID of hole @ 3'-5' = 0.0ppm
PID of spoon cap @ 3'-5' = 0.0ppm
Ved PID in exhaust - OK
1053 - PID of PVC pipe after boiling = 17.1 ppm
1059 - Site breakdown & patching of Street
1117 - Back @ 04-017PS w/ Craig. He is sealing this hole with granular bentonite with a cold asphalt cap.
1200 - Lunch
1315 - To hotel to pick up chargers
1320 - TO Site 04-024PS. Moved flag out of ditch (due to water)

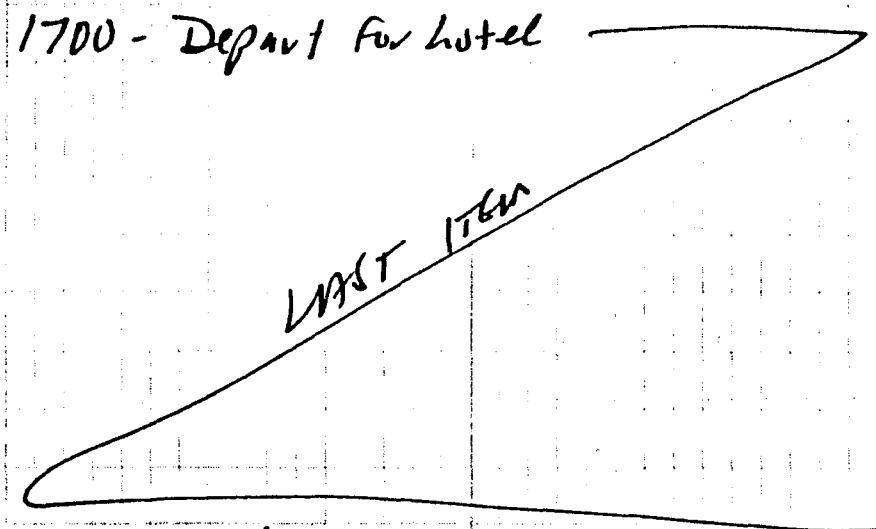


1325 - PID is dead - erratic numbers. 2nd PID is not charged. Used generator on rig to charge.
1345 - PID of hole @ 1'-3' = 4.1 ppm
PID of spoon cup @ 1'-3' = 4.6 ppm
1356 - PID of hole @ 3'-5' = 0.4 ppm
PID of spoon cup @ 3'-5' = 0.6 ppm
1425 - Site Breakdown
1430 - moved to Site 04-0318S
PID of hole from surf-1' = 2.1 ppm
PID of spoon cup @ surface-1' = 5.9 ppm
Ambient Air = 0.0 ppm
1447 - PID of hole @ 1'-3' = 3.2 ppm
PID of spoon @ 1'-3' = 9.7 ppm
Ambient Air = 0.4 ppm
1453 - PID of hole @ 5'-7' = 2.3 ppm
PID of spoon cup @ 5'-7' = 5.1 ppm
Ambient Air = 0.7 ppm
1510 - PVC put in place for H_2O sample
1515 - Water level: 9.5' to Water
Well 14.93 deep. Casing to ground = 3.6
∴ 5.9' BLS
1520 - Site Breakdown
1525 - TO Decon pad
Arrived ... 7 MAN SH



Wednesday, 2 Nov 94

1540 - Moved to 04-032PS. Site Setup
PID Warmed. Ambient Air = 0.6ppm
1544 - PID of hole @ surf-1' = 2.2ppm
PID of spoon cup @ surface-1' = 0.7ppm
1549 - PID of hole @ 1'-3' = 3.3ppm
PID of spoon cup @ 1'-3' = 3.1 ppm
1555 - PID of hole @ 5'-7' = 3.0 ppm
PID of spoon cup @ 5'-7' = NO RECOVERY
1608 - 8.2' to top of casing
Casing = 2.6' long (to LS)
∴ Water is 5.6' BLS
1616 - Site Breakdown.
1623 - At Decon Pad.
1630 - Traveled to 2 sites to watch hole abandonment.
1700 - Depart for hotel



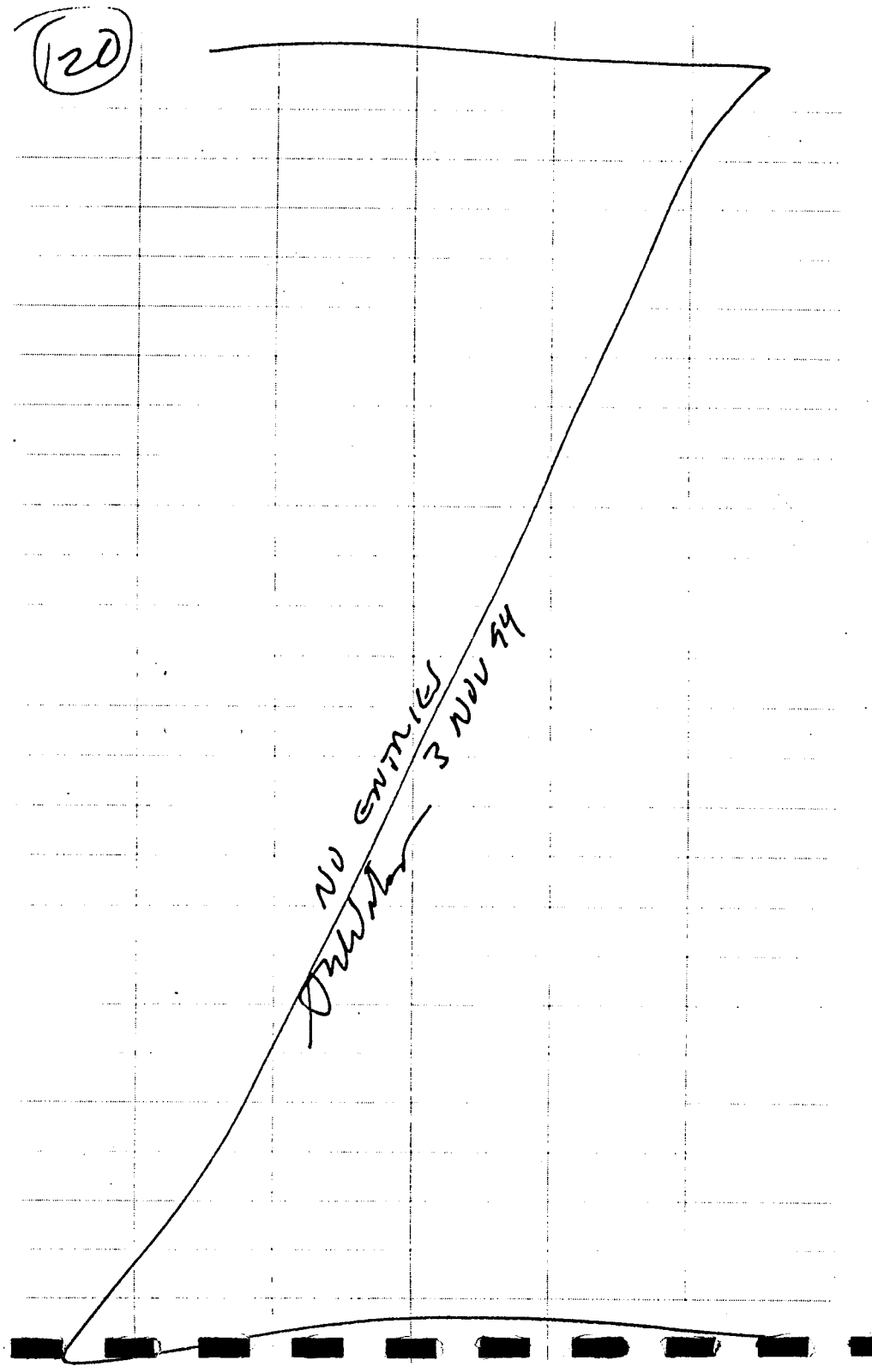
NO ENTRIES
Sunday 2 NOV 94

THURSDAY, 3 NOV 94

WX: SR: 062 SS: 1642
Partly cloudy high in 60's
S winds 10-15 mph
Rain tonight (70%)
Rain tomorrow (80%)

0600 - ON SITE @ Decon Pad
0630 - Rinsate blanks taken (QA/QC Samples)
0645 - Calibrated PID, Serial # NA890204 with 100 ppm isobutylene (12/93). PID Calibrated O.K.
0657 - Health & Safety Briefing
ATTENDEES: MARK, ANDREW, Jeff, Craig, & Brian
Subjects: All V/list items. Special emphasis on PPE. Must wear all PPE on base at all times.
0705 - Stopped by CSC to V on flying sked today. KC-135's due out @:
0830 - TAIL 0130 Spot 6
0900 - Tail 3500 South dock
0945 - Tail 0258 Spot 4
Due back @ 1200 & 1315
0710 - Moved to Site 04-033PS EOR SHOP CORNER

AG Building RAIN GU



THURSDAY 3 NOV 94

0714 - PID warmed - Ambient air = 0.0 ppm. Winds calm; Hi overcast; temp in lower 50's. Nice morning! LEL in place - normal.

0716 - PID of hole @ surface - 1' = 0.0 ppm
PID of spoon cap @ surface - 1' = 0.0 ppm

0721 - PID of hole @ 1'-3' = 0.0 ppm
PID of spoon cap @ 1'-3' = 0.0 ppm

0728 - PID of hole @ 3'-5' = 0.0 ppm
PID of spoon cap @ 3'-5' = 0.0 ppm

0743 - Recalibrated PID Serial #VA890204 with 100 ppm isobutylene (manuf 12/93). PID O.K.

0745 - Breeze has started. From South @ 10 mph. Evac plan changed.

0750 - SITE BREAKDOWN.

0755 - moved to Site 04-034PS
- STREET LOCATION IN FRONT OF ARMORY
AMBIENT AIR = 0.0 ppm

0810 - Established exclusion zone to alleviate foot traffic thru site

0819 - Brian completed drilling thru asphalt

LAST ITEM

3 Nov 94

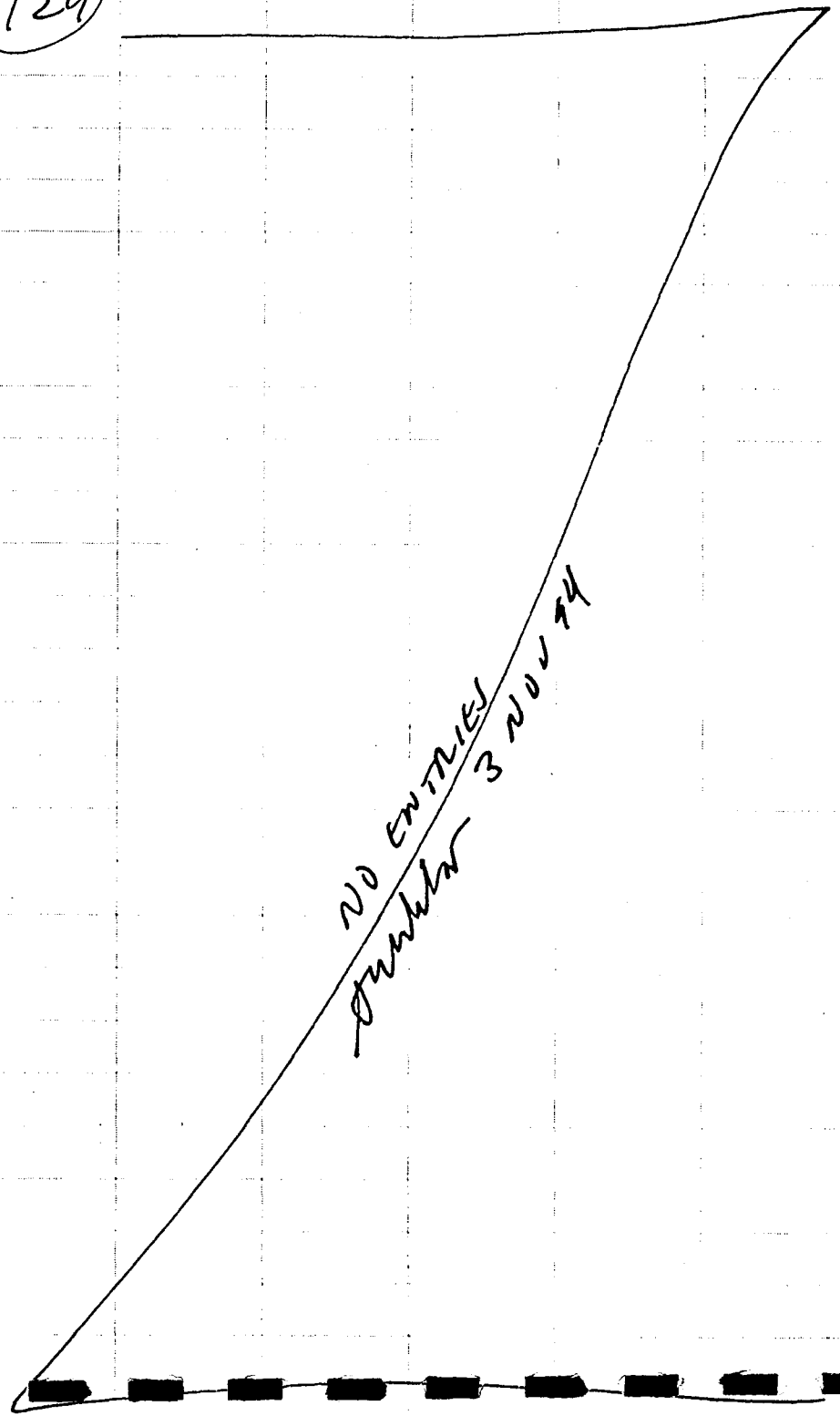
NO ENTRIES
Thursday — 3 NOV 94

0754 – SITE BREAKDOWN. ANDREW + CRAIG Recorded water level. GC water sample taken.

CARRIED FROM PREVIOUS PAGE

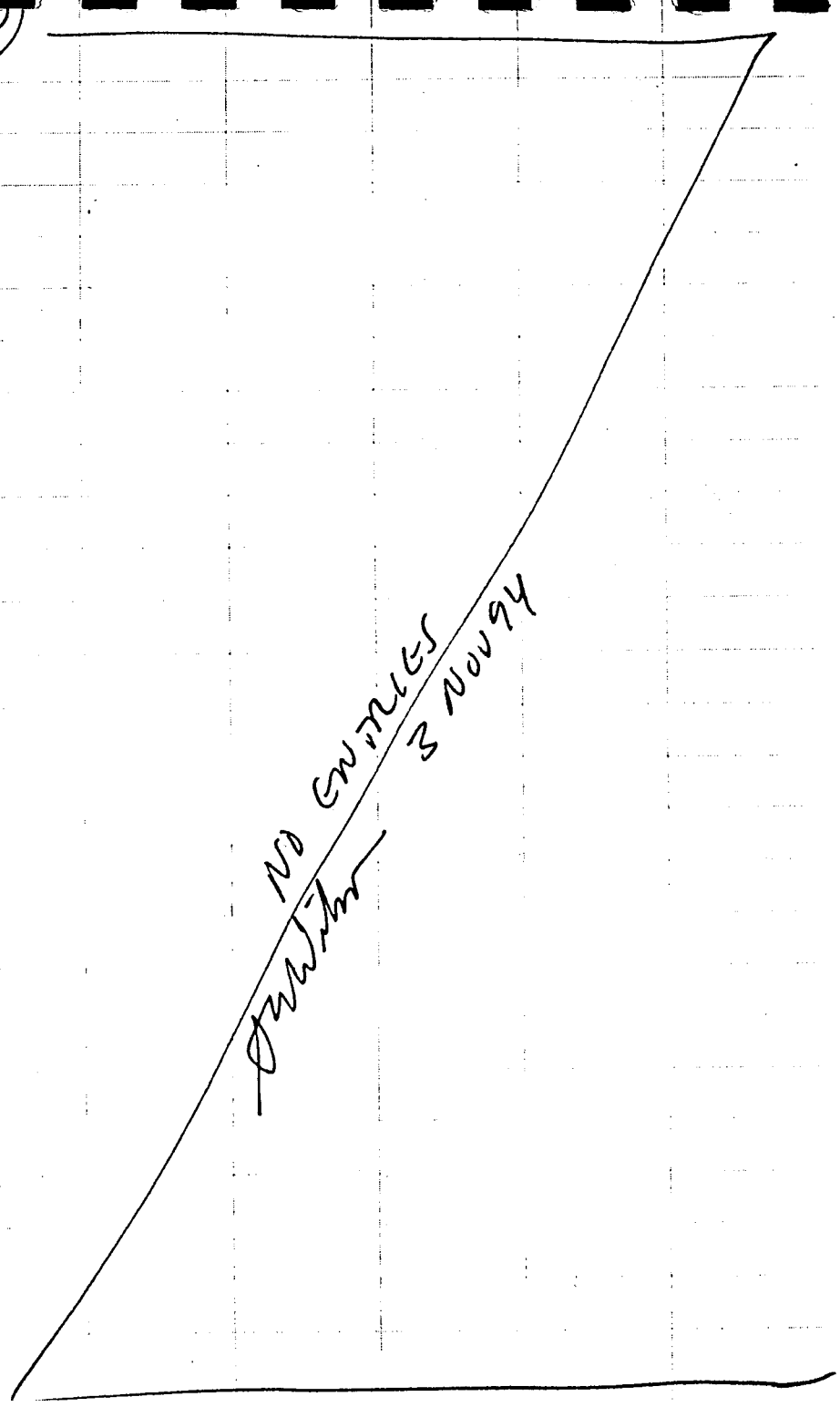
0821 – FIRST SPOON IN – HAMMERED IN
0823 – PID of hole @ surf – 1' = 0.0ppm
PID of spoon cup @ surface-1' = 0.0ppm
Ved PID in exhaust – reading OK
0826 – PID of hole @ 1'-3' = 0.0ppm
PID of spoon cup @ 1'-3' = 0.0ppm
0836 – PID of hole @ 3'-5' = 0.0ppm MS/MSD
PID of spoon cup @ 3'-5' = 0.0 ppm
Ambient Air = 0.0ppm
0851 – PID of hole @ 5'-7' = 0.0ppm
NOTE: spoon is wet.
PID of spoon cup @ 5'-7' = 0.0ppm
0900 – Water level = 6.6' BLS
0910 – Site Breakdown + Decon
0915 – Coordinated w/ Sgt Steve Wainer from Comm Sq + with Aircraft Maintenance Control. Site 04-037PS is clear.
0920 – Moved onto site
0925 – BRIAN arrived on site.

Am I. Int — 2 min 41'



THURSDAY, 3 NOV 94

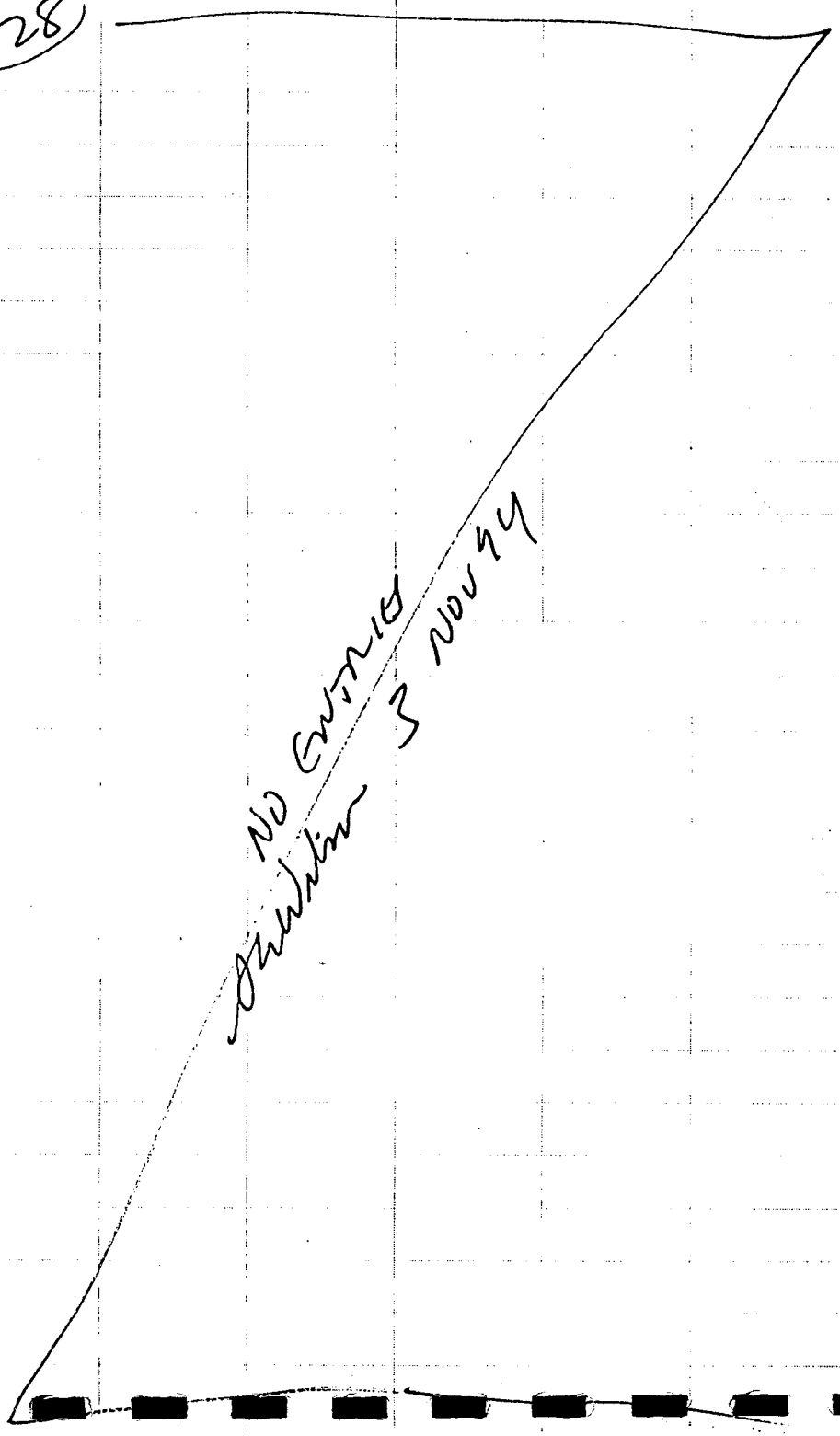
0932 – PID of hole @ Surface-1' = 0.0 ppm
PID of spoon cup @ Surface-1' = 0.0 ppm
0936 – PID of hole @ 1'-3' = 0.0 ppm
PID of spoon cup @ 1'-3' = 0.0 ppm
Note: Used PID with Tedlar bag of 100 ppm isobutylene. Read 100 ppm – OK.
0944 – PID of hole @ 5'-7' = 0.0 ppm
PID of spoon cup @ 5'-7' = 0.0 ppm
Spoon is wet.
0947 – PVC emplaced.
0949 – Water level: 8.55' ~~Above~~ At Casing Top
Well is 9.65' deep
3.4' from Casing to ground level
∴ Water is 5.15' BLS
0950 – LEL + PID secured.
1000 – Site Breakdown + Below
1005 – Moved onto Site 04-036PS
1015 – Rig set up. LEL in place.
PID warmed up. Ambient air = 0.0 ppm
1018 – PID of hole @ Surface-1' = 0.0 ppm
PID of spoon cup @ Surface-1' = 0.0 ppm
1021 – PID of hole @ ~~Surface~~ 1'-3' = 0.0 ppm
PID of spoon cup @ 1'-3' = 0.0 ppm
1029 – PVC emplaced



THURSDAY, 3 Nov 94

1040- Water level: 7.44' from top of casing. Bottom @ 9.7' " " "casing = 4.4' AGS.
∴ Water = 3.04' BLS
1045- Site Breakdown + Decon
1115- Returned to clinic.
1130- Moved to 04-001PZ to Sample
PID upon opening: 0.0 ppm
Decon'ed tape for H_2O. Level = 7.9' below casing. Bottom = 14.7' below casing. Casing = 1.2' fm ground
∴ Water = 6.7' BLS
1201- Sampling complete.
1210- LUNCH
1310- BACK @ clinic. Plan is to resample specific points due to lab screw-up. Need GRO/DRO samples at specific interval at selected sites
1311- WX: NOAA wx Broadcast- 40% chance of showers. High in mid-
Sky overcast. Wind fm South @ 10 mph
1312- ON site @ 04-020 to resamp
Due to Lab screw-up, we must resamp
#s 20, 23, 27, & 28.

3 Nov 94



THURSDAY, 3 NOV 94

SPECIFIC RESAMPLING REQUIREMENTS ARE:
✓ 04-020PS 1'-3' + ~~3'-5'~~ 5'-7'
✓ 04-023PS 1'-3'; ~~&~~ 3'-5' MS/MSD + 5'-7'
04-024PS 5'-7'
04-028PS 1'-3' + 5'-7'

1336 - Recalibrated PID # NA890204 with 100 ppm Isobutylene; Lot 12/93. PID O.K.
1337 - PID of sleeve from 5'-7' = 121 ppm
1340 - Moved to [04-023PS] for resampling.
1359 - PID of hole @ 1'-3' = Ø.Ø ppm
1404 - Few drops of rain ~~drops~~ felt - DARK
1408 - PID of hole @ 3'-5' = Ø.Ø ppm
1416 - PID of hole @ 5'-7' = Ø.Ø ppm
Site Breakdown + Decon
1433 - On site @ [Ø4-Ø27PS] for resampling.
Wx - getting darker from the North + west. Breeze is steady, from the South. Rain is beginning to fall @ 1423L
1448 - PID of hole @ 5'-7' = 0.0 ppm
PID of hole @ 1'-3' = 0.0 ppm
(✓ = DONE)

3 NOV 94

No entries
3 NOV 94

THURSDAY, 3 NOV 94

1450 - Off to decon; then to site 04-028PS for resampling.
WX NOTE: Rain has stopped.
1507 - PID of hole @ 1'-3' = 32.1 ppm
Ambient air = 0.0 ppm
1512 - PID of hole @ 5'-7' = 874 ppm
1514 - SPOON has dark gasoline-soaked soil in it.
1520 - Breakdown of sampling tables & Driller Decon
1544 - ON site @ 04-002PZ to sample.
1554 - PID of PZ upon opening: 0.0 ppm
Water: 7.55' Below casing top.
Casing = 1'; ∴ Water is 6.55' BLS
9.5' from top of casing to top of mud
1615 - SW Sampling complete.
1616 - ATHA of 04-033PS @ 1'-3'
= 0.6 ppm
1624 - PID of 04-003PZ upon opening = 1,265 ppm
Water = 4.75' Below casing
Casing = 3' ∴ Water = 4.45' BLS
Depth = 15'

3 NOV 94

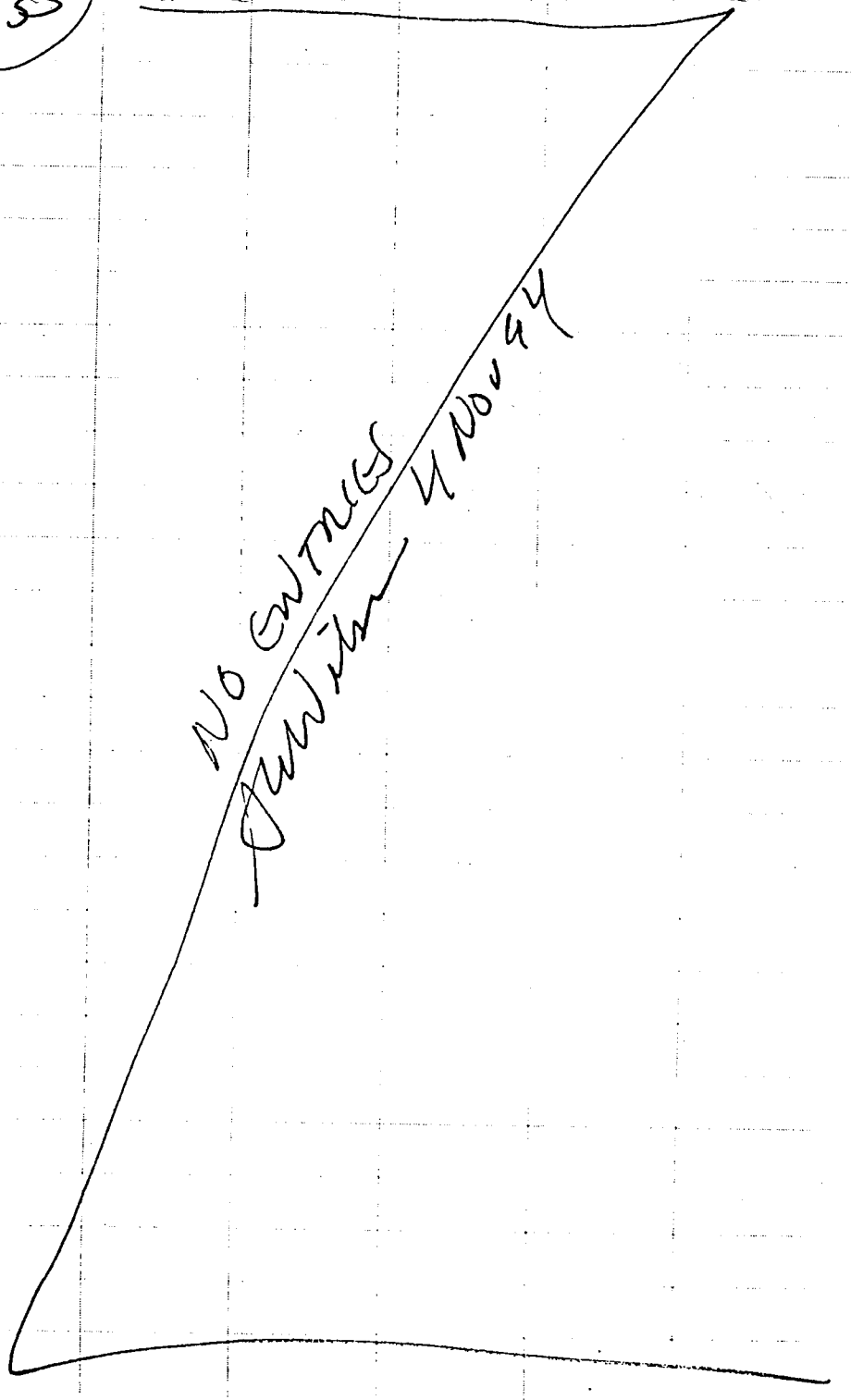
NO ENTRIES
3 NOV 94

THURSDAY, 3 NOV 94

1645 – Stopped by Fire Department + told to move out of area, due to arriving KC-135. Aircraft was on the ground + taxiing to ramp area. We vacated quickly.
1649 – Returned to Decon pad. Coolers offloaded from van for shipment preparation.
1700 – Off Base to hotel to prepare COC + sampler for shipment.

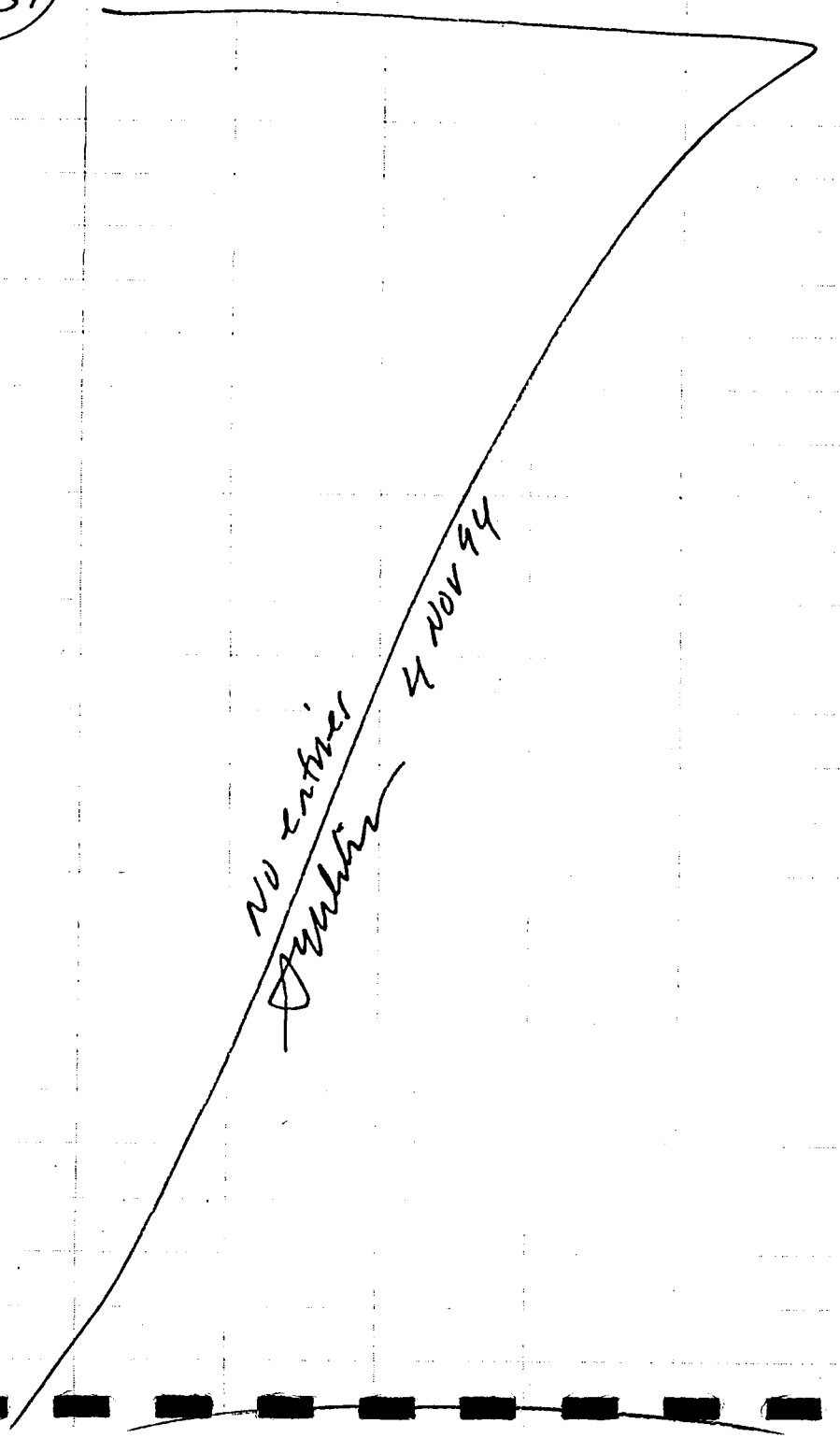
LAST ITEM

3 Nov 94



WX: Cloudy + Foggy with Drizzle
Full Rain after 0900 - 80%
Chance of Thunderstorm today
High in Mid 50's ; WINDS N/NE@10
Sunrise: 0630 SUNset: 1640
- Stationary Front overhead. Rain all day
0615 - ON SITE @ Decon pad
0625 - Drillers arrive from USI:
Scott Borlick + Tim Celichowski
They have all OSHA-required training
- Certificates of training + physicals presented.
- Tim is CPR/First aid trained
0640 - Health + Safety Briefing
Attendees: Jeff, Brian, Craig, Mark, Andrew, Scott, + Tim
Subject: All ✓ list items in depth
WX emphasized
0650 - Crew split up. Drillers building decon pad. Brian packing for departure Craig to plug holes; Andrew + Jeff to stake monitoring wells (+ clear them); Mark is inventorying supplies
0712 - Stopped by CSC to ✓ flying sked

(137)



FRIDAY, 4 NOV 94 (138)

Flying sked is: 0530 + 0900 + ONE >1600. Return @ 1130-1300

0720 - Walked back to Decon Pad

0725 - Calibrated PID Serial # NA930182 w/100 ppm Isobutylene, manufactured 12/93. PID is reading O.K. Mark calibrated LEL.

0810 - Construction/Packing at Decon Pad is continuing.

NOTE: Good source for Safety equipment is Lincoln Contractors Supply on Lincoln Street here in Milwaukee.

0811 - Heavy rain has started to fall. Drillers don't have 2" brass sleeves. Are calling shop to get some from phone @ dispensary.

0812 - Jeff told me base safety NCO complemented OpTech on wear of safety gear. Have seen many companys work on base without wearing gear - has had to remind contractors to wear safety gear.

0850 - Moved to site of MW-01 E61 protection will be required by the diesel rig.

[redacted] 4/NOV 94

(139)

no entries
4 Nov 94

(140)

FRIDAY, 4 NOV 94

0855 - Rig set upon site. LEL in place + PID operational.
0920 - PID of hole @ 2'-4' = 0.0 ppm
~~WX~~ steady drizzle
0926 - PID of spoon cup @ 4'-6' = 0.1 ppm
Blow count: ~~32/2/2~~ 32/2/2 @ 4'-6'
1000 - Drillin, continues. Only taking samples for QC. Andrew is logging.
1035 - Off site to get supplies
1235 - Back on site. Drillers are at lunch (just left) 04-004MW
1400 - Drillers on site, having waited for supply truck to arrive.
1406 - Setting screen in 04-004MW
1434 - "Ron" from OSI Environmental on site to v on progress.
1436 - "Ron" departed.
1443 - Well setting complete. Will be moving to 04-001MW.
1450 - ON site @ 04-001MW
L.T Drizzle
1530 - Well setting continuing
WX: Heavy Drizzle; Temp in 40's; Very lt breeze

4 Nov 94

(141)

NO entries
4 Nov 94

(142)

FRIDAY, 4 NOV 94

1531 – About 30 minutes ago, Jeff briefed crew that all wells will be above ground, with heights of guard posts not to exceed 3' AGL. This is a result of discussions w/ Ruth Hodder / ANGRC and Capt Wickman, CE SQDN.

1539 – Decision has been made by Jeff not to drill a 3rd well today. Decon requirements & lack of daylite drive the decision. Drillers will clean site now, decon, & depart.

1543 – Site 04-001MW cleared. Barrels secured with bolted rings.

1615 – TO Decon Pad. Watched Drillers clean rig, parts, & all augers.

VAST ENTITY

4 NOV 94

SATURDAY, 5 NOV 94

NO WORK - UTA weekend at Base

SUNDAY, 6 NOV 94

NO WORK - UTA weekend at Base

LAST ENTRY

6 NOV 94

MONDAY, NOV 7, 1994

WX: SUNRISE 6:34 AM / SUNSET: 4:37 PM
FORECAST: Partly Cloudy & Breezy
Hi's - mid 50's
S Winds 15-25 mph
0621 - Calibrated PID #NA930182 with 100ppm isobutylene (12/93)
0627 - Calibrated LEL w/ 25% hexane. Serial # 6553. Hexane: 06/94.
0633 - ONsite @ 04-005MW
0635 - Health & Safety Briefing
Attendees: Scott, Tim, Jeff, & Steve
SUBJECTS: All w/list items
0644 - LEL in place / PID warmed & ready
AMBIENT AIR: 2.2 ppm (located next to PDL area)
0647 - Kathleen Marino arrives on site
0650 - H&S Briefing for Kathleen & Mark
SUBJECTS: All w/list items (in depth for Kathleen)
0659 - Ambient Air = 3.7 ppm. Much exhaust.
0713 - 3.5, 8, 12 - Blow count on 5'-7'
PID of spoon cup @ 5'-7' = 5.5 ppm
Ambient air = 4.5 ppm ∴ 1.0 ppm

(145) 7 NOV 1994

0718 - PID of mud on auger coming out of hole @ 12' = 12.5 ppm
Ambient air = 4.5 ppm ∴ 8.0 ppm
Can smell mud.
0722 - 33, 6, 10 - Blow count @ 10'-12'
0723 - PID of spoon cap @ 10'-12' = 10.8 ppm
Ambient air = 4.5 ppm ∴ 6.3 ppm
0727 - Recalibrated PID, Serial # WA 930182 w/ 100 ppm isobutylene (12/93) Calibrated ½ block away from site in clean air.
0821 - Stopped by CSC to ✓ on aircraft flying. No flying today.
0900 - Water hose leak in hangar - Lt Col Gonzzo (Maint SQ CC) helped get access to hangar Water leak minimized. We can have H_2O access all day. He is planning to leave @ 1500, but will ✓ with us.
0910 - Decon in progress.
0911 - Met Ron Davis, supervisor of drill crew. He signed Health & Safety form.
0930 - Tried to move to 04-002MW. Rig stuck on side of hill.

Monday, 7 Nov 94 (146)

1030 - Rig on site @ 04-002MW
1035 - Guided support truck to site
1043 - LEL in place / PID warmed.
1044 - First auger into ground.
1045 - PID reads "Lo Bat"
1047 - PID of spoon cap @ 1'-3' = 0.0 ppm
1100 - Called by SP Boundary Patrol to talk to CSC. Traveled to CSC & talked w/ SSgt Warner. Concern focused on 50' distance from KC-135. We will comply.
1120 - On site @ 04-002MW. Must wait coming down.
1125 - Briefed whole crew on flightline driving restrictions
1130 - Site breakdown
1145 - Escorted drillers across runway & did extensive FOD ✓ & cleanup.
1200 - Lunch
1300 - On site at 04-001MW. Drillers are digging holes for guard posts & setting forms for pad.
1328 - On site @ 04-003MW. Rig in place.
1357 - 2, 2, 24 Blow count 5'-7' (now)

7) MONDAY, 4 NOV 94

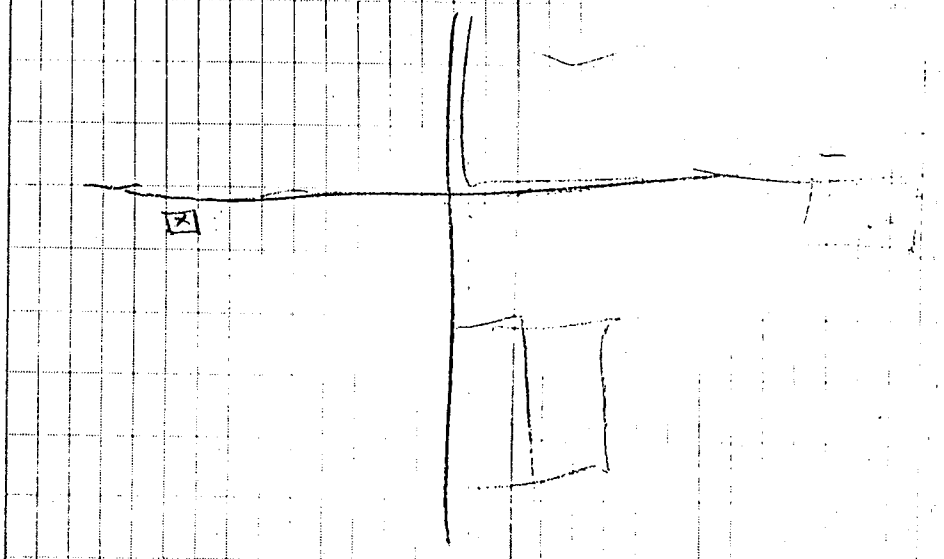
:- Blow count: 3, 6, 7, 9 @ 10'-12'

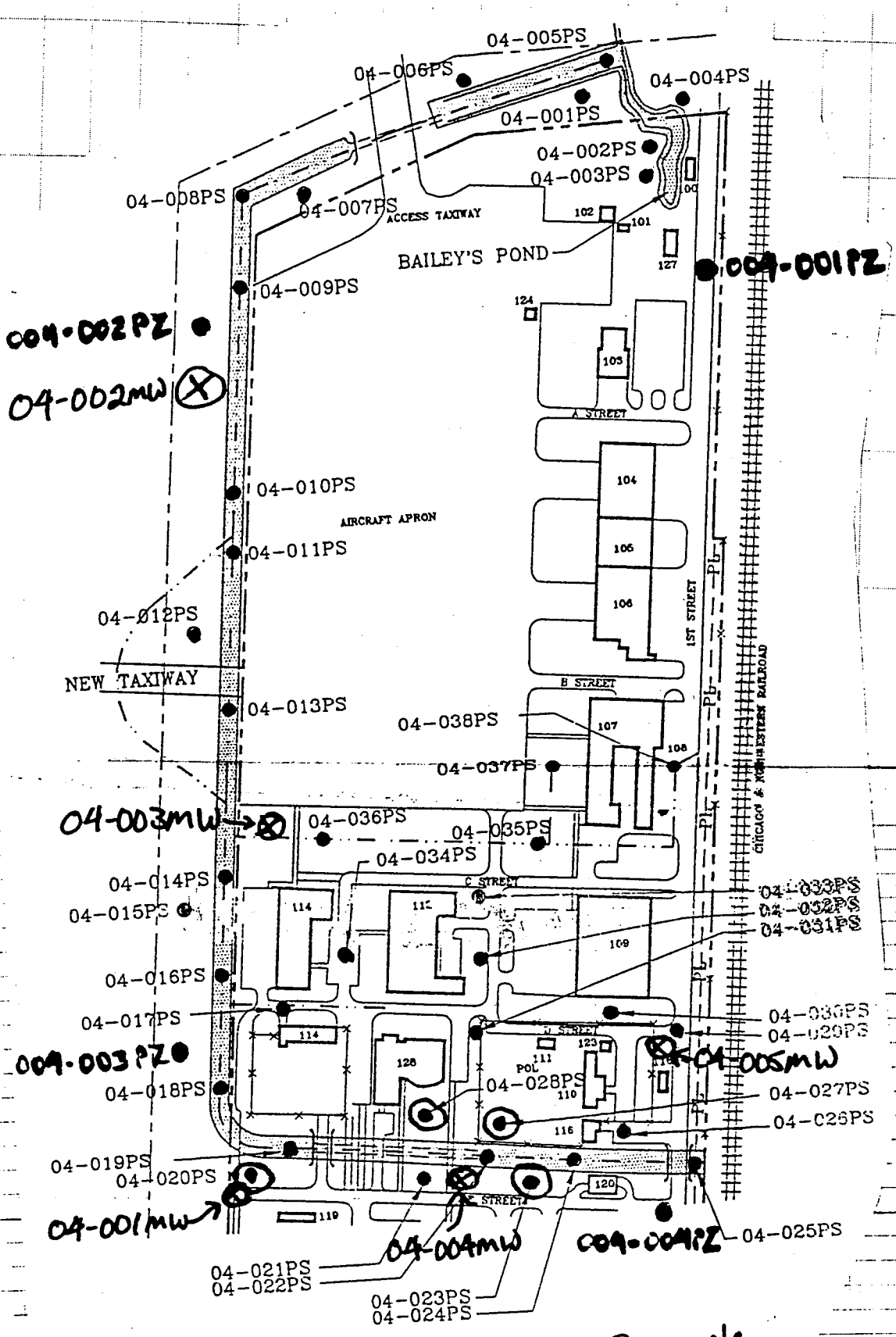
?LD of spoon cap @ 10'-12' = 1,950 ppm

MISCELLANEOUS DATA

Cut

- Bassies - 2 gal — x2
- 1 gal — x4
- clear tape





STRATAPROBE DEPTH: 10 FT
- 2 SOIL SAMPLES EA
- 1 WATER SAMPLE

PIEZOMETER DEPTH: 16 FT
- 2 SOIL SAMPLES EA
- 1 WATER SAMPLE

◎ Resample spots

154

TAILGATE BRIEFING

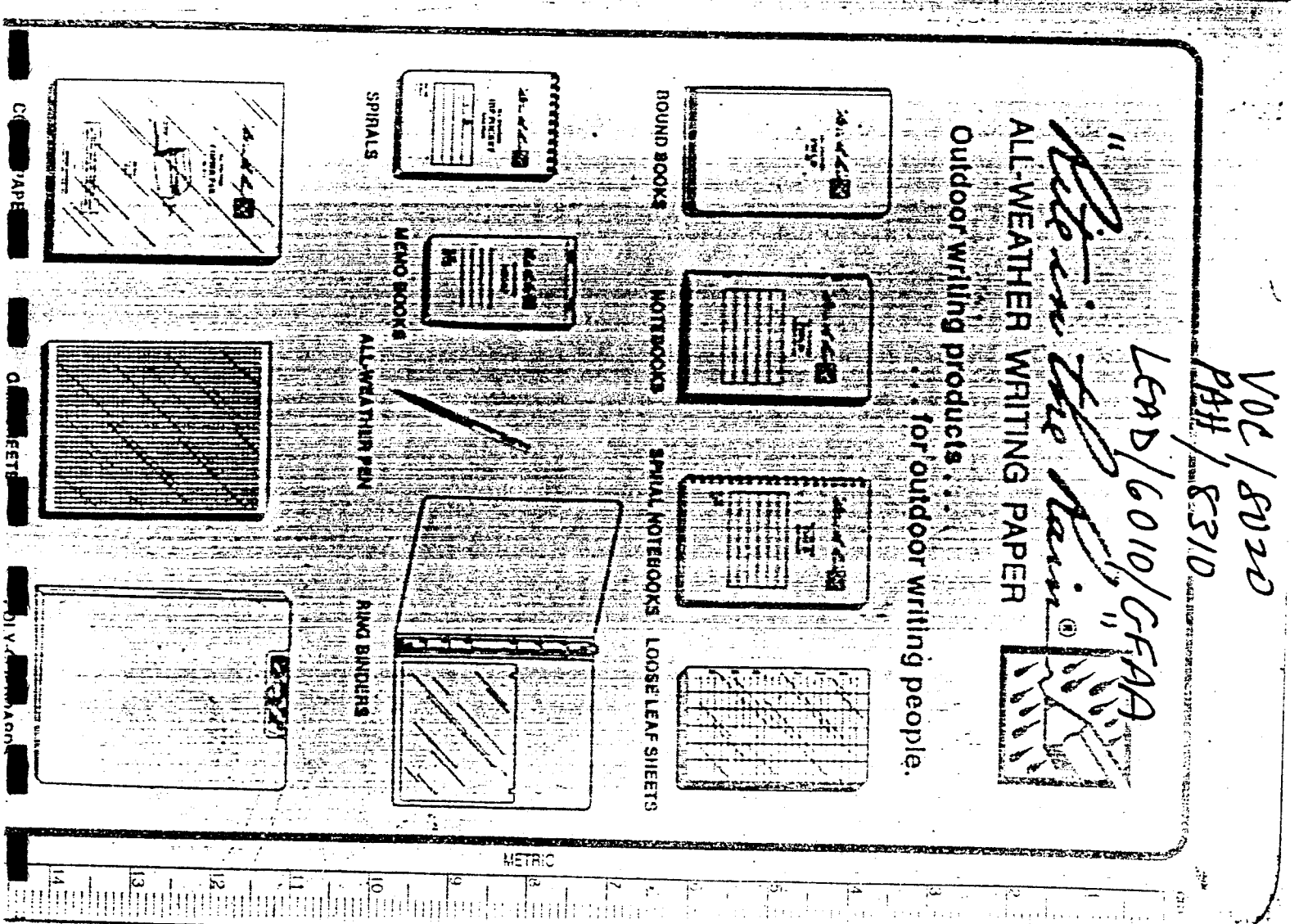
DAY'S TASKS

TENTIAL HAZARDS

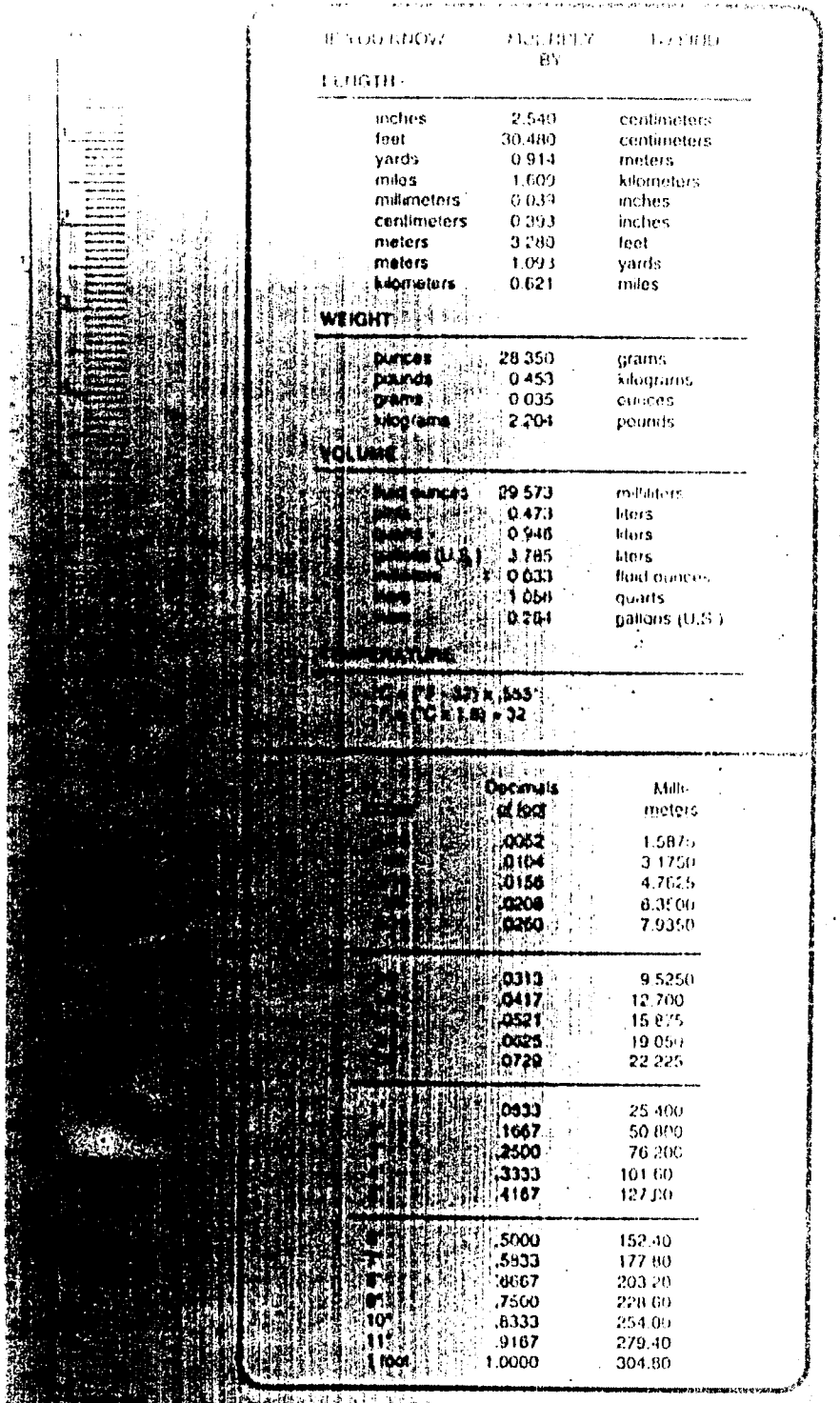
L SWITCHES

POSURE PATHWAYS
SKIN
EYES
INGESTION
NOSE

- **TODAY'S WEATHER**
- **EVACUATION PLAN**
- **LOCATION OF SAFETY EQUIPMENT**
- **ANY QUESTIONS OR COMMENTS?**
- **WORK SAFE!**



VOC / 8020
PAH / 8310
Lead / 6010 / GFAA



METRIC CONVERSIONS

IF YOU KNOW	MULTIPLY BY	TO FIND
LENGTH		
inches	2.540	centimeters
feet	30.480	centimeters
yards	0.914	meters
miles	1.609	kilometers
millimeters	0.039	inches
centimeters	0.393	inches
meters	3.280	feet
meters	1.093	yards
kilometers	0.621	miles
WEIGHT		
ounces	28.350	grams
pounds	0.453	kilograms
grams	0.035	ounces
kilograms	2.204	pounds
VOLUME		
fluid ounces	29.573	milliliters
pints	0.473	liters
quarts	0.946	liters
gallons (U.S.)	3.785	liters
milliliters	0.033	fluid ounces
liters	1.060	quarts
liters	0.264	gallons (U.S.)
TEMPERATURE		
°F	(°F - 32) x .555	°C
°C	(°C x 1.8) + 32	°F

Decimals of foot	Millimeters
.0062	1.5875
.0104	3.1750
.0156	4.7625
.0208	6.3500
.0260	7.9350
.0313	9.5250
.0417	12.700
.0521	15.875
.0625	19.050
.0729	22.225
.0833	25.400
.1667	50.800
.2500	76.200
.3333	101.60
.4167	127.00
.5000	152.40
.5833	177.80
.6667	203.20
.7500	228.60
.8333	254.00
.9167	279.40
1.0000	304.80

ALL-WEATHER WRITING PAPER

Name Joe Byrd, Jr
Project Scientist
Address 4100 NW Loop 410, #230
San Antonio, TX 78229
Phone (210) 731-0000

Billy Mitchell 1315-139

CONTENTS

PAGE	REFERENCE	DATE
	FEDEX 1342-6486-1	
	1-800-238-5355	

TRAVEL DAY

19 Dec 1994

(CST)
0800 leave home

1715
~~1705~~ At hotel
Go to store & get supplies
~~53~~

(CST)
1747 Dove for day

17.8
8.0
9.8

9.8 hrs

TUESDAY 20 December 1994

0624 Load VAN & CAR. (Big Box & drums)
0652 Leave hotel
0654 Breakfast. (0.8)
0742 Done w/ B'Fast
0746 On Base get parking Permit
0800 At CE (?) to meet w/ Base personnel concerning field work.
0824 Heuhmpn shows. OKs everything
0830 KM has to use phone waiting
Haul Load VAN @ store room
0858 Go to hotel to get other drum
0912 BACK ON BASE.
Go to get Keys to our UNHEATED room.
0930 Set up Decon AREA Decon Equipment. ** There is A HEATER **
1040 Done & Ready for P & Sampling

20 Dec 94

1041 HYDAC is not working.
RC & KM are working on it.

1057 Ready

1100 At 04-005 MW

1148 Done. Go to Decon AREA
to prep for next well.

1210 At 04-004 MW

1240 Done. Go to Decon AREA.

1259 Done. Go to 04-001 MW
Purge & Sample

1337 Done. Go to Decon Area

1354 Done. Go to 04-002 MW
out on APRON.

1455 Done. Go to Decon Area.

1515 Done Go to 04-003 MW.
Last Well. Level C Gear.

1600 Done Sampling
Go to Decon AREA.
BAILERS will not clean
Dispose of them.
Label drum. Secure them.
KM, RC do QA/QC
samples.

(5)

20 Dec 17

(6)

1652 heave base
1700 CO hotel

17.0
7.2
9.8

9.8 hrs

DAY 2

Wednesday 21 Dec 94

0742 Leave hotel
Go to Store to get shipping materials.

0800 On Base. Meet w/ Lt. Huckshaw. Advise him that we should be off Base by 09:00 - 0930.

0815 Go to Fire Dept. to get key to store room

0819 At Store Room

0900 Done. Go to FD. to return key.

0910 Leave Base. Go to Burlington Express to drop-off boxes

0935 Back at Hotel.

1430 At ~~Hotel~~ Airport

2230 Home

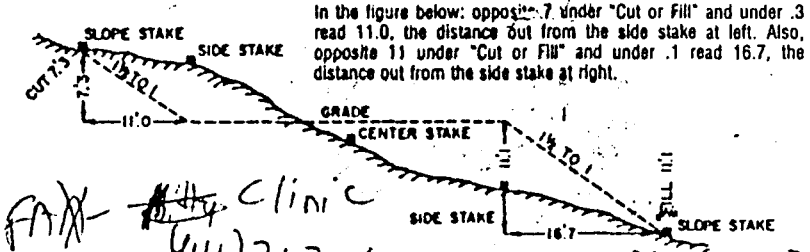
8.6
7.7
1.9
8.0
9.9

9.9 hp

DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING

Roadway of any Width. Side Slopes 1½ to 1.

In the figure below: opposite .7 under "Cut or Fill" and under .3 read 11.0, the distance out from the side stake at left. Also, opposite 11 under "Cut or Fill" and under .1 read 16.7, the distance out from the side stake at right.



FAX - Mfg. Clinic
(414) 747-4495 OSN 580-8495 (4495?)

Cut or Fill	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	Cut or Fill
	Distance out from Side or Shoulder Stake										
0	0.0	0.2	0.3	0.5	0.6	0.8	0.9	1.1	1.2	1.4	0
1	1.5	1.7	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.9	1
2	3.0	3.2	3.3	3.5	3.6	3.8	3.9	4.1	4.2	4.4	2
3	4.5	4.7	4.8	5.0	5.1	5.3	5.4	5.6	5.7	5.9	3
4	6.0	6.2	6.3	6.5	6.6	6.8	6.9	7.1	7.2	7.4	4
5	7.5	7.7	7.8	8.0	8.1	8.3	8.4	8.6	8.7	8.9	5
6	9.0	9.2	9.3	9.5	9.6	9.8	9.9	10.1	10.2	10.4	6
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8	12.0	12.2	12.3	12.5	12.6	12.8	12.9	13.1	13.2	13.4	8
9	13.5	13.7	13.8	14.0	14.1	14.3	14.4	14.6	14.7	14.9	9
10	15.0	15.2	15.3	15.5	15.6	15.8	15.9	16.1	16.2	16.4	10
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13	19.5	19.7	19.8	20.0	20.1	20.3	20.4	20.6	20.7	20.9	13
14	21.0	21.2	21.3	21.5	21.6	21.8	21.9	22.1	22.2	22.4	14
15	22.5	22.7	22.8	23.0	23.1	23.3	23.4	23.6	23.7	23.9	15
16	24.0	24.2	24.3	24.5	24.6	24.8	24.9	25.1	25.2	25.4	16
17	25.5	25.7	25.8	26.0	26.1	26.3	26.4	26.6	26.7	26.9	17
18	27.0	27.2	27.3	27.5	27.6	27.8	27.9	28.1	28.2	28.4	18
19	28.5	28.7	28.8	29.0	29.1	29.3	29.4	29.6	29.7	29.9	19
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21	31.5	31.7	31.8	32.0	32.1	32.3	32.4	32.6	32.7	32.9	21
22	33.0	33.2	33.3	33.5	33.6	33.8	33.9	34.1	34.2	34.4	22
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26	39.0	39.2	39.3	39.5	39.6	39.8	39.9	40.1	40.2	40.4	26
27	40.5	40.7	40.8	41.0	41.1	41.3	41.4	41.6	41.7	41.9	27
28	42.0	42.2	42.3	42.5	42.6	42.8	42.9	43.1	43.2	43.4	28
29	43.5	43.7	43.8	44.0	44.1	44.3	44.4	44.6	44.7	44.9	29
30	45.0	45.2	45.3	45.5	45.6	45.8	45.9	46.1	46.2	46.4	30
31	46.5	46.7	46.8	47.0	47.1	47.3	47.4	47.6	47.7	47.9	31
32	48.0	48.2	48.3	48.5	48.6	48.8	48.9	49.1	49.2	49.4	32
33	49.5	49.7	49.8	50.0	50.1	50.3	50.4	50.6	50.7	50.9	33
34	51.0	51.2	51.3	51.5	51.6	51.8	51.9	52.1	52.2	52.4	34
35	52.5	52.7	52.8	53.0	53.1	53.3	53.4	53.6	53.7	53.9	35
36	54.0	54.2	54.3	54.5	54.6	54.8	54.9	55.1	55.2	55.4	36
37	55.5	55.7	55.8	56.0	56.1	56.3	56.4	56.6	56.7	56.9	37
38	57.0	57.2	57.3	57.5	57.6	57.8	57.9	58.1	58.2	58.4	38
39	58.5	58.7	58.8	59.0	59.1	59.3	59.4	59.6	59.7	59.9	39
40	60.0	60.2	60.3	60.5	60.6	60.8	60.9	61.1	61.2	61.4	40

Mke 414
~~John 384-5644~~
Jeff 4300
Rukm. 420L
Kathleen 4206
Steve 4228
LTR Helsman 4107
Andrew 4107

~~Dunk Acct. Mfg~~
Sentry Products 781-2236 Jim
Fax 781-2743 Todd or Jim.

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Milwaukee

08:00 Tuesday

Project Gen. Billy Mitchell Field, WI
SI for IRP No. 4.
128th Air Refueling Group
1315-139

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Andrew Raring (410) 661-9245

SMP Gas 827-3680 Barbara Mather (703) 681-0632

CONTENTS

PAGE NO.	REFERENCE	DATE
BB. 9712-2658	pager (ours) 1-800-591-1354	
	Target (Charlie Thompson) (410) 992-6622	
	Trinity Hospital (414) 769-4055	
	Fire or Emergency 117 (on base)	
	Base PBX (414) 747-4186.	
	pager (John Morris) 1-800-~~257~~ 719-6454	
	HAZCO 1-800-332-0435	
	HAZCO Fedex No: 103 052 173	
	cellphone (ours) (210) 260-2438	
	utility clearance (800) 242 8511	
	CPT Wickmann, CE (414) 747-4425	
	Diggers (800) 242-8511	
	beeper 1-410-407-5090 pam walter ext 8900	
	Ruth (301) 981-8844 ext 8172	
	call 0630 AM. DSN 858-8844	
	(301) 601-9334	
482-4444?	Motel 6 (~~Layton~~ Hopet) 230 Brim. Rm 279 Comfy	
Mon 1st	Morris, John, home (210) 698-0388	
	Kathleen C.C. Motel (801) 355-0858 ext 17	

(1)

Thursday, 6 Oct 94 B.M. Field.

Fedexed (Box) 7 Oct 94

(Equipment Lists)

1 bx kim wipes
1 layer tarps
1 yard hot
2 light raincoat
2 bottles isobutylene
1 pr work boots
1 green line
1 safety + HTPH plan
1 roll plastic sheeting
3 trowels (2x2)
1 safety vest

Large Grey Fiberglass Box

(2) 4-gallon buckets
(2) 2" PVC Bailer
(1) 2" Teflon Bailer
Tool Box
First Aid Kit
(5) Tyvek suits
Light ½ roll
(2) Rainy raincoats
¼ bx Kim Towels
½ Box Alconox

(2) Thursday, 6 Oct 94

(1) Sunscreen ~30 Block
(1) cooler liner
bubble pak

5-gallon DI water

Blue Tote
(2) boxes Aluminum Foil
(4) 1/4 boxes gloves
type ger
COC forms
(1) Lamp box quart-size
baggies
trash bags
(1) mercury thermometer
Calibration solution
conductivity
pH 7
pH 4
pH 10
100' engineer tape
(2) gunscrew
1/4 roll paper towels
(2) 1/2 roll Teflon Tape

17 Oct 94 - Monday
Travel Day to site. No
work performed - tomorrow will
be the first day on site

B. H. Mitchell

18Oct 94 Tuesday Billy Mitchell

0830 met w/ CT. Huelsman. Discussed project, utilities, cdr and CE coordination.

0930 met w/ CPT Wickman, CE Dept. - Picked up site maps.

1015 Conducted site walkover w/ CT Huelsman.

call Airport (County Engineer) prior to driving on Airport (civilian) land.

1130 start sampling in NW corner of the base (preferably in the Bailey's Pad Area) - finish it up before rain begins.

1430-1500 Staking boring sites w/ John, Kathleen, Ruth Codder (ANGRE), CT. Huelsman, Bill Helberg (HAZWRAP), & Curtis Nichols (Weston - representing Amoco).

19Oct 94 Wednesday Billy Mitchell

0680 Contacted Hot Rigg 800 number - they have cleared us to dig on Monday at 0700.

0700-0820 - Met w/ Stratoprobe people to discuss Strategy for the project.

0820-0930 Picking up & preparing Equipment for

0930 Drillers (stratoprobers) do not yet have their Equipment they will meet us at 1030 for departure to the site.

Also, the utilities people will meet us on Monday at 0930 at the Grand Sheik to locate utilities off the NW property. Confirmation No. Given -

1030hrs - went to Lobby to meet TFP/ Target (stratoprobe) Crew. Optech Employees are Checking equipment and loading the Van and car.

1040-1230 Equipment procurement (drillers) and sample bottle labeling and organization

Wednesday, 19 Oct '94 B. Mitchell

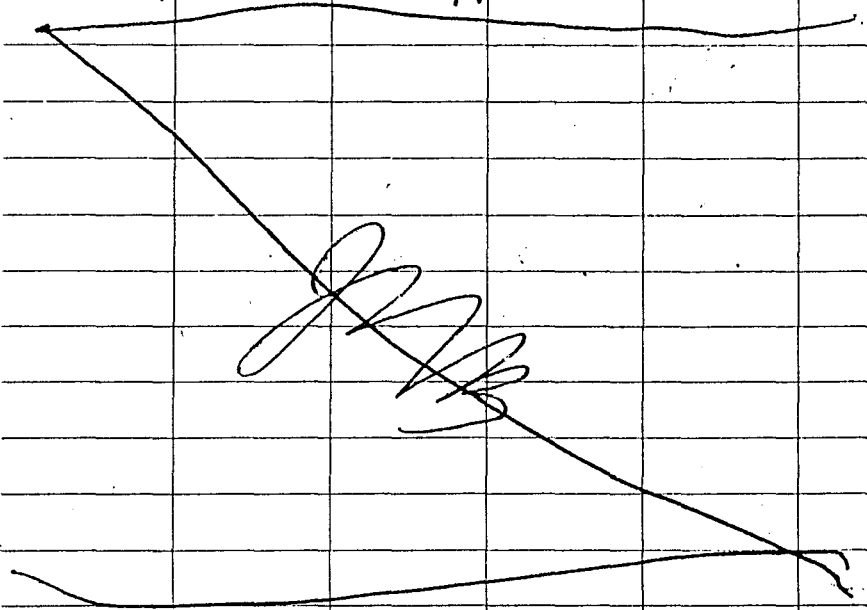
1320 Met w/ AFCEE rep. and HAZWRAP Auditor

1330 piezometer staking, setting up decon station, marking site maps w/ PZ and SB locations - to be sent to CEC (CPT Wickman) to be cleared for utilities.

1600 Showed sample sites to TEG personnel + discussed sampling + decanning strategies.

1705 left base

1720 Returned to Motel.



Thursday, 20 Oct '95 B. Mitchell
Day 4. 1315-139

Use of plastic decon tubs.
Alternative lubricant for Stratoprobe.
-gggg.

0700 Arrive on base.
0730 Conducted Tailgate Briefing, to include HitH Safety Briefing and a FOD briefing.
0800 Decon procedures have been delayed as the Generator provided by TEG is not functioning. Attempting to obtain alternate power source.
0855 Alternate power source procured (bldg 27).
1000 Decon has been completed.
1030 Moving to first site (CO3P5).
1050 Site set up. Decon Area set up on plastic lining, in the back of a pick up truck. Brass sleeves + split spoons undergoing hand decontamination. Moderate but steady wind blowing west to east.

Thursday 20 Oct '95 B. Mitchell.

1115 For the first few points Mark Goldman will assist the Geologist, until he must do a GC Run.

- We will ensure that doors on carrying cases are closed at all times when near the flight apron to prevent accidental FOD from objects which may fall out of or be blown out of the van.

1130 Probing operations begin.

1250 During water sampling at the first point, the well(hole) dried up. Recharge time is expected to be lengthy due to the clay soil. We will break for lunch + allow recharge.

1330 well Recharged - Sampling proceeds.

1400-1430 Lunch

1430 Move to Decon site to Decontaminate the stratuprobe.

Thursday, 20 October 1994 B. Mitchell

1445 Begin operations at site 002PS.

1530 Having problems drawing water out of the borehole due to high levels of silt/sand (clogging tube).

1600 Phonecon w/ John Morris. He says We can hold samples on site (cool) for up to 24 hrs. Therefore we can sample Saturday, give them to the delivery service Sunday (< 24 hrs later), and have them at the lab on Monday morning.

1650 In a final attempt to draw water from 002PS, we will install Piezometer screening and allow it to fill (approved by Program Manager, Hanscom AFB, and ANCOR project manager). Target will provide extra screening for free.

1710 We will have to wait for an adequate quantity of water to enter the hole.

Thursday 20 Oct '94 B. Mitchell

Therefore we will not be able to complete sampling at this point until tomorrow morning.

1745 Sample trip blank was locked in the lab when personnel departed. We will hold samples in our custody & keep well iced & ship first thing in the morning (prior to 24 hour Limit which will occur at 12 pm tomorrow). This was cleared with the OPTECH Project Manager.

Friday 21 Oct '94 B. Mitchell.

0600-0700 Planning meeting.

Field blanks (1/4) - 7 deionized + 7 potable water - As per ARCADIS Project Mgr.

Do blanks first.

0700 Tail gate briefing w/ Health and Safety briefing and FOD briefing.

- Today we will finish sampling 002 BS (water sample), then go to the 3rd sample at Bailys Pond (Marsh) (005).

0735 Observing Decon procedures, Rods Put on a rack & Cleaned w/ Liquinox + water, water, and steam. - Same procedure will be followed for the duration of the project.

0800 Set up time at site (pond).

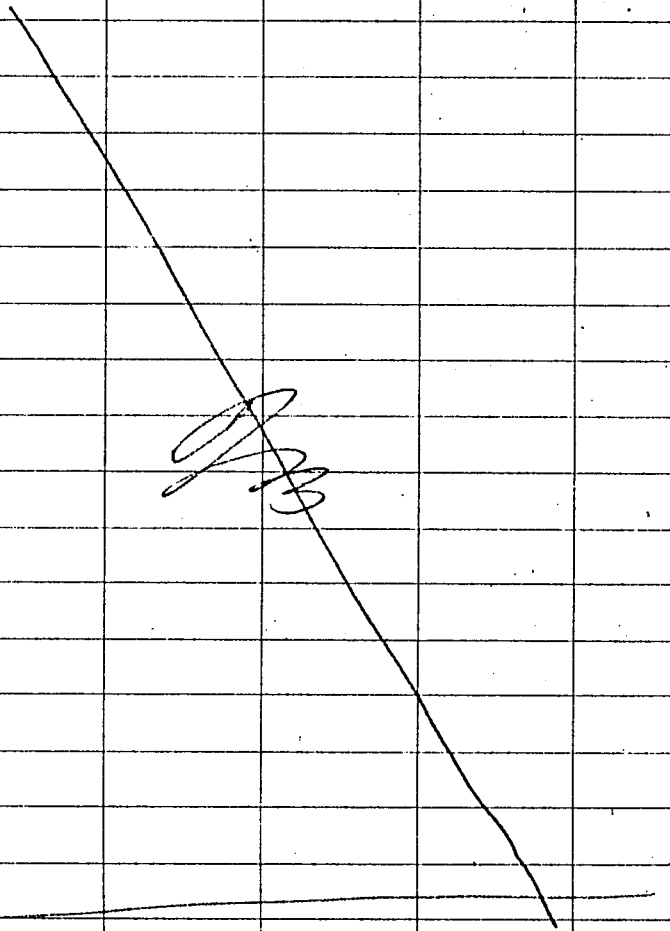
- We will purge no. 002 BS prior to sampling, allow it to recharge, then collect our groundwater sample from this point As Requested by ARCADIS Project Mgr.

Friday, 21 Oct 94 — B. Mitchell
Day 5 — 1315-1839

0830 002PS will be purged while work on 001PS begins. Ambient Air PID readings negative.
1100 work done on 001PS except Groundwater sample. Groundwater Sampling on 002PS was completed. Decanning Rig + equipment.
1200-1245 Lunch Break.
RHS Taking QA/QC samples (field + equipment blanks, Potable DI + water samples etc).
1320 Working at site 006PS. (0-2 ft. ~~Sample~~ spoon filled). Ambient Air PID readings + LEL readings are still zero.
1330 Took 4-3' Sample from 006PS. Ambient Air readings continue to read 0.0 to (PID + LEL), but there is a distinct odor (swamp gas). This

Friday, 21 Oct 94 — B. Mitchell
smell has been present since we arrived.
1435 Site sampling (04-006PS) is complete.
1445 Observing decon procedures (as per page 11).
1505 Decon Complete — moving to point for 04-005PS.
1600 Soil sampling on 04-005PS completed. Not enough water for a water sample. We left piezometer tubing in the well and will attempt to sample groundwater on Monday. Both this hole and hole 04-001PS (same situation) were covered and sealed to prevent contamination of the groundwater through the hole. A thin bentonite seal was placed around the piezometer tube to prevent entry of contaminants around the tube.
1620 Moving to decon area

Friday 21 Oct 94 B. Mitchell
to perform final dig, decontamination.
1650 Decon complete. Performing QA/QC on samples. Filling out and COC's, etc.
1830 Turned over samples to Fedex + Returned to Motel.



Monday, 24 Oct '94 B. Mitchell
- Meet w/ CPT Wickman
- meet utils. at 0930

- Copy site map
0804 Arrived on site
0710 Conducted H&S Safety Briefing to include FOD briefing (Conducted by Steve Wilson, the new Health + Safety Officer).
0726 Observing decon procedures as per page 11.
0820 Met w/ Lt. Huelsman - he notified security that we will be working along the apron + taxiways. He will also notify the civilian airport security.
0835 called J. Morris, OBTEH + left a message
0845 called Ruth Lodder, ANGEC - Left a status of project message on her machine.
0900 Met w/ CPT Wickman reference utilities on base. She will have all

Monday, 24 Oct '94 B. Mitchell

of our points checked by the end of the day.

0940 Arrived on site to find Stratoprobe ~~is~~ Vehicle is stuck in the swamp (apparently it got stuck around 0845).

0950 Goldie Austin AT+T clear
Jim Madjewski West Shore Pipeline
Richard Mattel City of Mil.
Kent Gross Wisconsin Electric
Hernan Perez SMP - Gas

1020 Completed tour of post w/ civilian utilities personnel - Mr. Perez of SMP (Gas) will have to return tomorrow to complete checking points on the South side of the base. All other utilities have cleared our points as marked (flagged).

1030 Returned to site. Neither of the holes set last week produced enough water to take a full suite of samples (VOAs only).

Monday, 24 Oct '94 B. Mitchell

1040 Stratoprobe is out of the mud/swamp, but is too dirty to go on runway area and has been taken to be cleaned.

1048 Strato probe has arrived.

1055 Setting up at Pt. 04-007 PS.

1145 On hole 007 we had less than 1 boss sleeve full of soil. Therefore we will try again at 7-9 ft.

1200 No recovery at 7-9 ft. We will try again at 5-7' within 1 ft. of original. If this does not work we will not draw a second soil sample at this point.

1220 We only recovered 1 sleeve at 5-7 ft. in this new point, so we took PAH + LEAD + ~~OIL~~ GRO samples - not enough sample for DRO + VOC.

1240 Sink hole to 10-12', minimal soil recovery, but we are in ground water. We

Monday - 24 Oct '94 B. Mitchell

Will let the hole charge + take the sample after lunch.

D50 Breaking down at Site 007 - preparing to go to lunch.

1300 - 1330 OTR - called John Moore. He indicated that we should take a sample at 8-10' rather than 10-12', then punch a hole to 15' in order to get more water.

1415 Site 007 has only recharged to a depth of about 1.5 feet. We will now move to grid 04-008PS + poke a hole. We will attempt to resample site 007 later in the day.

1420 Sampling work begins.

1500 Soil Sampling done, Piezometer tube installed - must wait for recharge. We will move to site 04-009 PS + ~~punch~~ and conduct soil sampling + drive hole to 15' depth.

Monday - 24 Oct '94 B. Mitchell

We will attempt to sample 008 later in the day or tomorrow.

1550 Decon of Rig + rods have been completed - moving to site 04-009 SP.

1640 Attempted to collect an MS (MSD) sample for the 2nd time today. No recovery (using 3-5' GLs).

1730 Soil samples taken, Piezometer tube installed for sampling tomorrow.

1738 - Observing decon procedures.

1750 Laurent Marc Returning to Hotel to do COC's + drop off samples at Fedex.

1808 Decon completed + equipment stored onsite.

Departing Site.

(20)

Tuesday 25 Oct 94 B. Mitchell

2330 — QA/QC - Ruth Ladder not in (until tomorrow).

0700 Arrived at site.

- We will take QA/QC samples after lunch - rather than in the morning as we are short of bottles for water analysis for lead. We will sample wells 007 + 009 for water first.

0710 Observing decon set up procedures.

0745 Tailgate briefing to include HAZ, safety + FOD briefing.

0800 Left another message for Ruth Ladder, ANDRE - I will call back later.

0815 Called CPT Wickman - CE has not yet cleared our points in the built up area of the base. They should be done by 1000 or 11 am today. I will check back later.

Tuesday, 25 Oct 1994 B. Mitchell

Day 2 1315-1539

0855 Filled VOAs + ½ liter from 007. Well ran dry - will have to return later.

0900 Prepping to sample 008. We can not get to 009, 010, etc. at this time due to security restraints.

0905 Cleared to work near apron until 1030 hrs.

0925 Hole 008 only yielded 1 Zonal (enough for VOAs only). We will attempt to collect more later (recharge is slow). Moving to site 009 PS to collect water samples.

0958 Filled 3 VOAs + ½ all before well went dry. We will move to Pt. 10 - Cancel that - We must be away from the Apron by 1030 - we wont have enough time to set up, sample + clear in ½ hour.

1010 Talked w/ CPT Wickman. She has not yet cleared us

Tuesday, 25 Oct '94 B. Mitchell

to work on the North End of the base. At 0900 1017 called SMP Gas. Mr. Perez was called away on a "emergency" call. Therefore we don't have clearance from them either. He will page me when he returns. Reuben has gone to the Motel to check on the fedex package w/ our water lead bottles (sample bottles sent originally did not have any preservative). We will do QA/QC for water if they are available to utilize the time until we are cleared to work along the Apron again.

1030 called South Western Bell to unlock our cellular phone which has been locked for 3 days. I was given instruction on how to unlock it.

Tuesday 25 Oct '94 B. Mitchell

1127 Phone successfully unlocked (123).

1145 sorting bottles that have arrived from Fedex.

1215 Begin Water QA/QC sampling

1315 Completed Water Sampling.

1330-1400 OTR

1410 - Moving to site 010 PS.

1430 Attended Safety + Health Briefing.

1442 Starting to punch hole 010.

1500 Problems w/ PID

Ryan had to repunch hole - Steve the people had no screens in the split spoon.

1520 finished sampling (soil) site 010 PS. We have to close up in order to decon vehicle before water is shut off at 1630. We will do water sampling for points 07-010 after decon, time permitting.

1630 Preparing for water sampling. We will start with

RV

Tuesday 25 Oct 94 B. Mitchell.

Point no. 010. + work backward

1652 Decon complete - moving to site 010.

1700 Health + Safety Briefing @ base FF

1743 Drew sample from sites 007 + 008. Air Force security indicated that a flight would leave in 20 minutes - not enough time to sample 009 + 010 tonight.

1813 Reported site.

Wednesday 26 Oct 94 B. Mitchell

- Work Saturday?
- CEC Shoot: B. Hedberg
- John - change QA/QC.

0700 Arrival on base
Flights will be going in + out until 0900 or so, so we will have to stay away from the Apron.

0740 Clearing site w/ CPT Wickman: Wisconsin Natural Gas has marked sites. CPT Wickman has finished marking the south end of the base (0840) and will have the rest done by noon.

0940 Talked w/ Dan Waltz of ANGRC (returned his call) and Bill Hedberg (HAZWRAP). The following changes/topics were discussed. He said we should:

- not send any more Cootie samples to the lab. We will only do QC screening of

Wednesday 26 Oct '94 B. Mitchell

the water in the holes
- On soil samples, only we will only send 1 in 3 samples to the lab. At the end of the day, we will determine which samples to send to the lab based upon the results of PID and GC sampling (highest reading samples will be sent off).
- We will not install any piezometers.
- We will be installing four monitoring wells using HSA. We will install 1 well upgradient and 3 wells downgradient. We will choose points based upon groundwater flow data
- We will send GC water sample detection limit data to Dan Wolfe at ANGRC. (fax (301) 981-8121). 0800
- I will fax Dan Wolfe

Wednesday 26 Oct '94 B. Mitchell

a fax detailing these points.
1010 Briefed our crew on the changes detailed above.
1055 Prepared fax w/ detection data & details of phone con.
1100 Phone con w/ John Morris, Kathleen Merino, & Kathryn Pritchett (OSTECH - Conference call) ref this project. Discussed site selection for groundwater monitoring wells, procurement of a Geologist to replace Ruben Portales next week, obtaining drillers for HSA monitoring wells, SOPs project schedule, etc.
1203 Faxed documents to Dan Wolfe, ANGRC and Kathryn Pritchett, OSTECH.
1240 OFF
1355 called Barbara Mather ANGRC contracting center. She stated that we should do 5 GW monitoring wells

28

Wednesday, 26 Oct 94 B. Mitchell

rather than 4 as Ken Wolfe had stated. She also indicated that we needed to do the piezometers. This contradicts this morning's conversation. I scheduled a 9 AM conference call (0815 EST) to discuss the changes w/ her and Rick Ladder. Also, Barbara Mattor thought we would be sending 1/3 soil samples to the lab. If not then this is resolved we will ship 1/3 of the samples, to the lab (tonight), and hold the other 2/3 on ice until tomorrow after the meeting. We will then Fedex or dispose of the ~~them~~ soil as appropriate.

1440 Called Bateen (Kathryn) Patchett to inform them of the potential changes

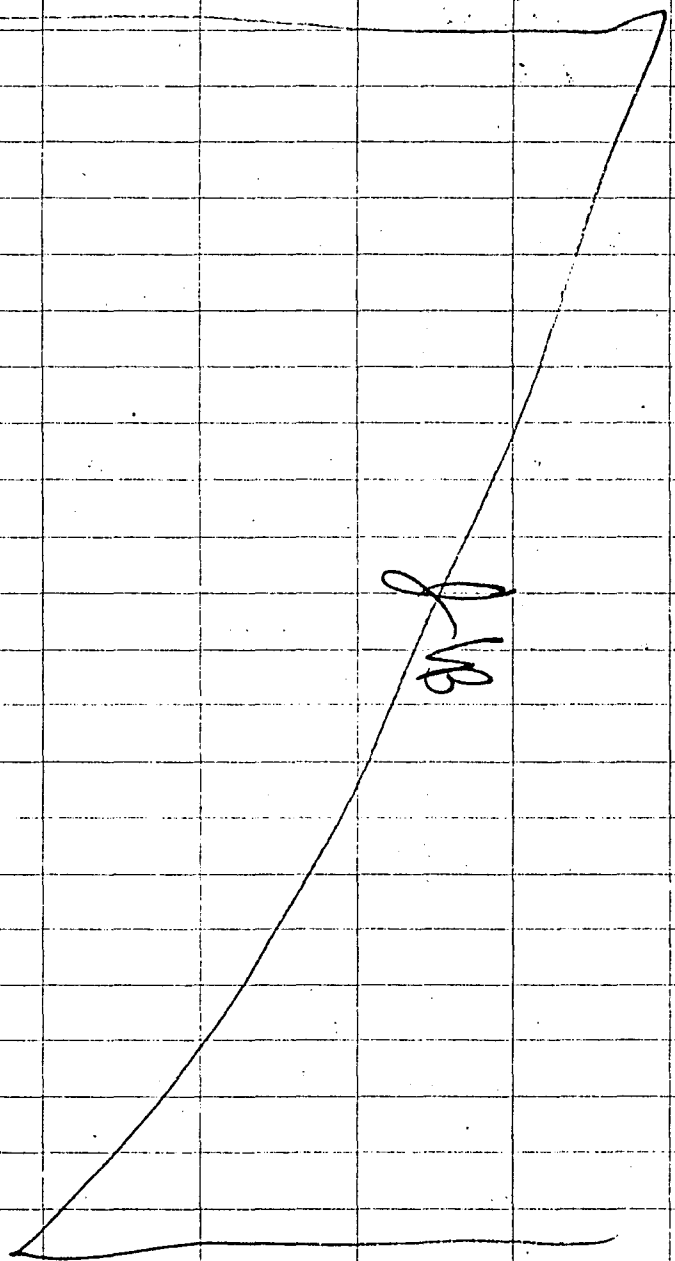
Wednesday, 26 Oct 94 B. Mitchell

to this mornings proposal so that we didn't make any changes until after tomorrow mornings conference call. She will discuss this with Cass... (John's Assistant).

1535 Talked w/ Ruben Portales, our Geologist - He indicated that he had only been taking samples at every third site rather than collecting every sample + was basing decision on PID/GC readings. Therefore only GC for BTEX run on points 019 and 021. I informed him that we need to take all samples from now on (apparently there was a misunderstanding) and send in the high samples (or all samples, depending on what the National Guard people decide.

1600 Took last sample from hole 027.

30 Wednesday, 26 Oct 94 B. Mitchell
1641 Moved to 04-023PS.



Thursday, 27 Oct 94 B. Mitchell
0750 H&S & Safety & FOD & Changes to workplan briefing.
0800 Talked to SMSGT David Smith reference turning of Sprinklers for a day so that we can sample points 025 + 026.
0810 Record copy of notes of 0715 phone conversation with Rick Lodder, ANGRC and Barbara Mather, ANG Contracting.
- Addendum / changes to discussion recorded yesterday.
- We will not take lab water samples out of the push sampler (Strataprobe).
- Soil samples will now be taken according to original work plan, rather than taking them from every third hole. We will go back to the two holes that we only took GC samples from yesterday and collect a complete

(32)

Thursday, 27Oct'94 B Mitchell

Set of Samples.

- We will be installing & sampling 4 piezometers according to the original work plan specifications.
- We will install the 5 optional Groundwater monitoring wells according to work plan specifications.

0830 Contacted Russ & Kathryn Pritchett (OPTECH) reference hiring drillers for the optional monitoring wells.

0900 Discussing QA/QC & other concerns w/ Auditor.

1015 We have tried for the second time to get a duplicate sample at 3-5 ft., but did not get enough recovery, & have instructed TEC to try using a sand trap. They do not have any on the site, but will have them fedexed here for tomorrow.

(33)

Thursday, 27Oct'94 B Mitchell

1315-1339 Day 9.

1110 Hose rupture on Strata probe - work halted until the rig is repaired.

1117 Another H&S & Safety briefing.

1115 Took QA/QC sample on split spoon.

1140 Talked w/ LT Hulesman - was given permission to work on Saturday and Monday.

1150 Taking samples from 5 holes for GC analysis (water)

1250 Sampling complete - going to lunch & waiting for drilling to be repaired.

1415 Rig has been repaired. We are drilling a hole adjacent to site 021 because the hole collapsed before filling with water. We could not get a sample.

(37)

Thursday 27Oct'94 B. Mitchell

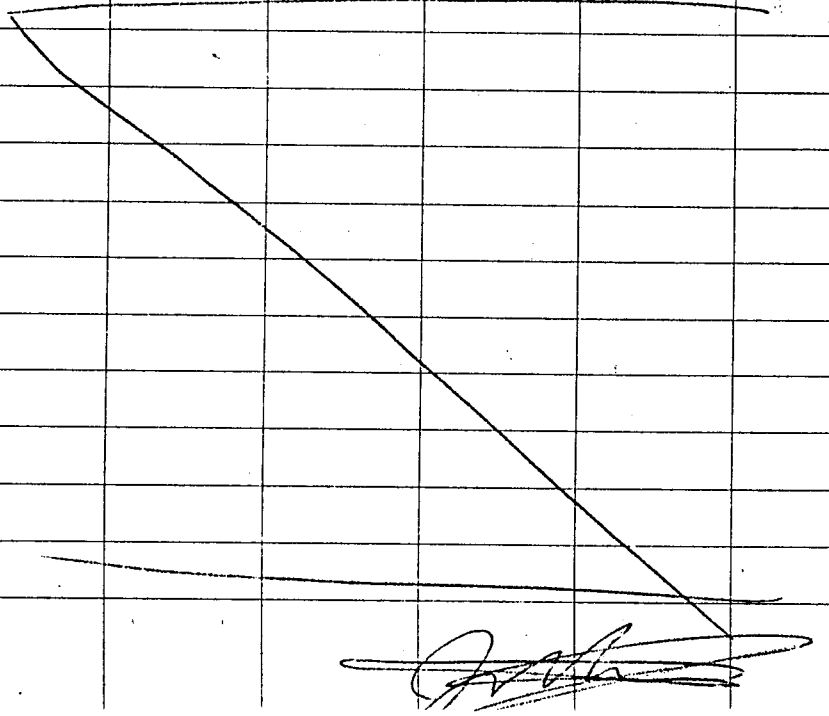
1510 Second well attempt has partially collapsed at 021 PS - We will leave it in place in hopes of getting water tomorrow.

1515 Craig Hankins will plug + abandon, holes already sampled. The rest of the crew will work at 029PS.

1425 Site completed (except for water GC sample).

1450 Begin at site 026 Completed.

1800 Left Base



(39)

Friday 28Oct'94 BMitchell

Day 10 1315-139

0657 Arrived on Base.

0800 Began work on Piezometer in SE corner of installation.

0912 Equipment Breakdown on rig. Stratoprobe operators will go to the hardware store to get some equipment to fix the problem.

0951 Drillers fix problem w/ Stratoprobe.

1031 First Piezometer (04) installed

1046 Set up to do 025 PS.

1210 Hole 025 Collapsed. We will try to repunch it to get a water sample.

1305 Drillers are having a hard time punching the hole (025 PS).

1320 Second attempt (hole) has also collapsed. We will not try again here.

1325 OT

1500 Begin operations on 029 PS.

(36)

Friday 28 Oct 94 B. Mitchell
1630 Methanol ordered on Friday/Monday has not yet arrived. Can not find a local source with ~~reagent~~ pesticide Grade methanol in supply. We will begin work tomorrow in hopes that it arrives before our supply runs out.
1720 Hole no. 030 finished.
1750 Left site for the day.

(37)

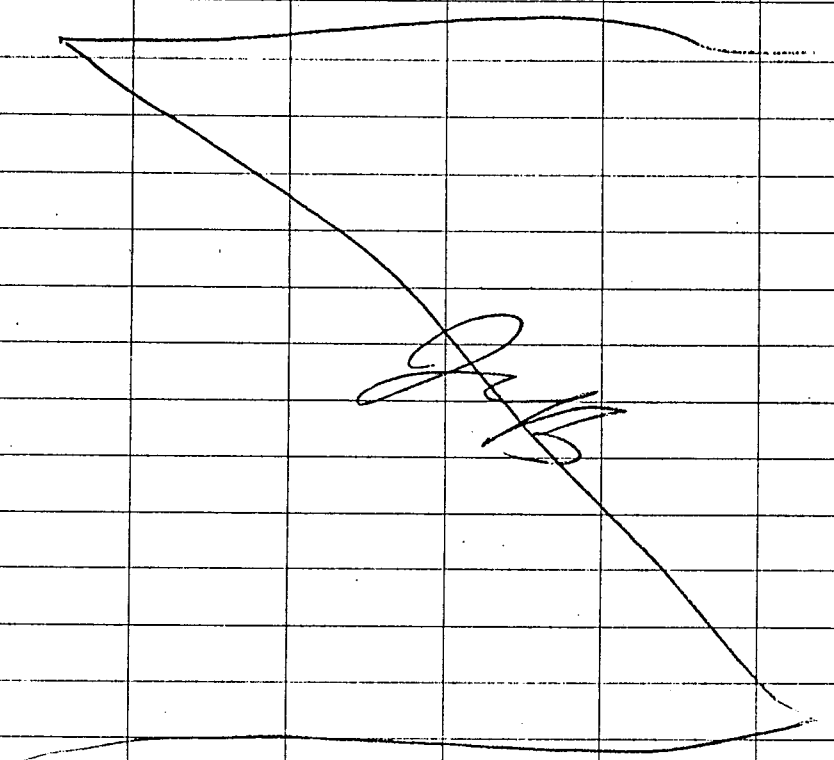
Saturday, 29 Oct 94 B. Mitchell
0700 Arrived on site
0715 Conducted Tailgate briefing to include Heat Safety Briefing and FOD briefing. Attended by myself, Ruben Portales, Marc Escobar, Brian Niska, and Craig Hawkins. Steve Wilson is ill today. Therefore, I will switch from site manager to site Safety Officer. Ruben portales will be Site Mgr/ Geologist.
0720 PID + LEL Calibrated recorded by Marc Escobar.
0730 Moving to Apron area to sample (for GC) water at well 010. We will also pull PVC from this hole, and Mos 7, 8, and 9. We will plug and abandon these holes (w/ cement + 3% bentonite. We will then move to the North end of the installation

Saturday, 29 Oct 94 B. Mitchell
and take water samples from
the other PS points that
have not yet been sampled.
0830 Recalibrated PID w/ new
battery.
0840 Took water samples
from 005 + 010.
0842 Tried to pull PVC pipe
out of ground at 005 & could
only get the top 3 ft. length.
Will fill & abandon w/
remaining pipe in place.
Strato probe has broken again—
foot will not withdraw. Shut
down until it was fixed.
0900 Leaving Tamac.
0940 Strato probe can not
be repaired on site. They
have taken it off site for
repairs.
1000 Sampling PS holes
for GC Water. No. 19
Did not produce enough
water for a GC sample.

Saturday, 29 Oct 94 B. Mitchell
1040 called Ruth Ladder &
left a progress message.
1055 PS 022 did not have
enough water to get a GC sample,
although the outside of the
bailer was wet.
1110 Drillers Return. They will
be ready to go by about noon.
1200 Return from lunch
1220 Begin to punch hole no.
038. Background PID reading
0.0. All PID/LEL readings
in the future are 0.0 unless
otherwise noted.
1350 Hole 038 finished, including
GW Sample. Note: Painting
operation in bldg. nearest hole,
but it was downwind only
during GW Sampling.
1400 Moving to 035 PS. Ambient
PID/LEL readings are
negative.
1415 Begin punching operations
at 035 PS.

(90)

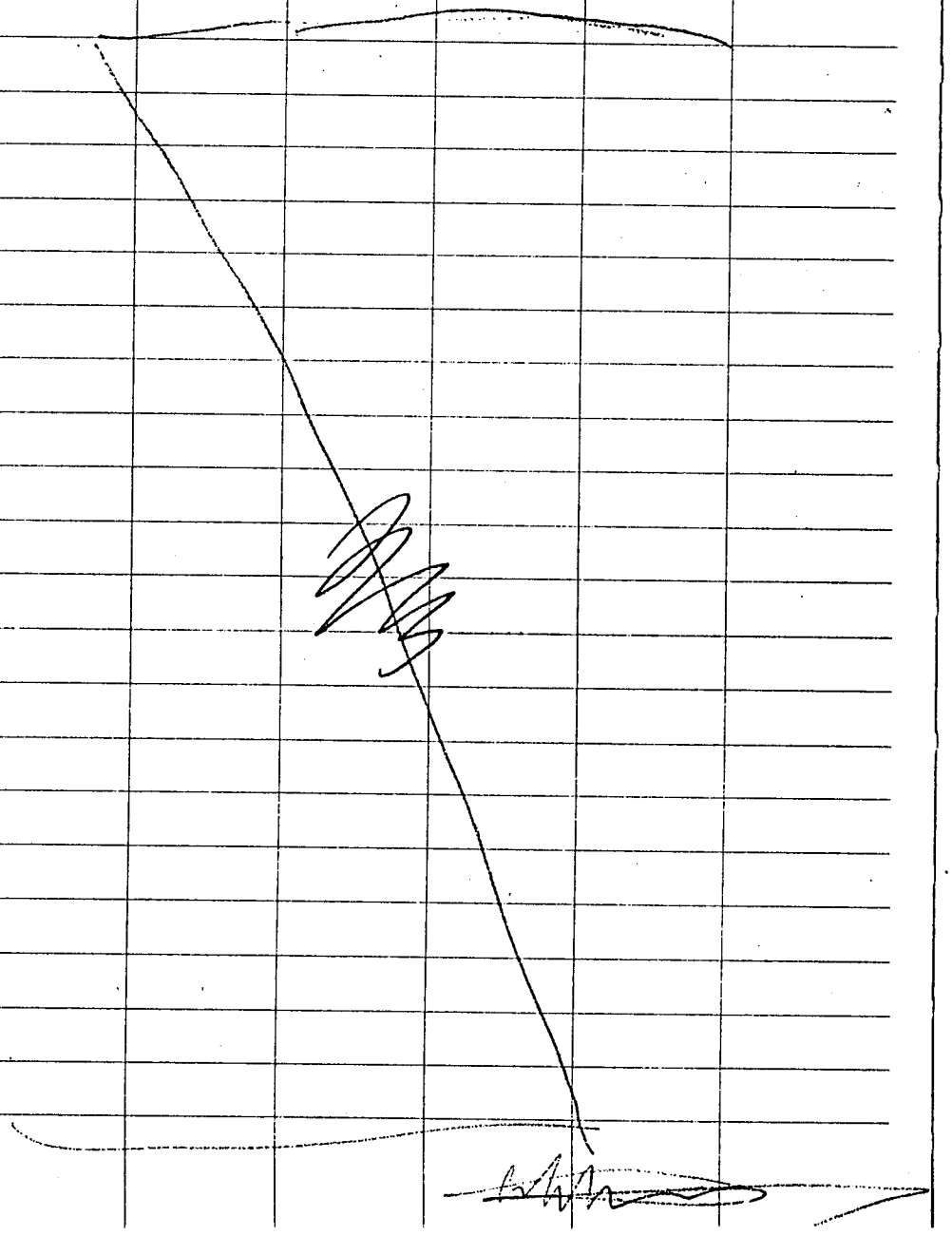
Saturday, 29 Oct 94. R. Mitchell
1445 Finished 03 SPS (including water samples for GC).
1457 ~~Left Base~~ Rig pooped another hydraulic line. Since Fedex closes at 1700, we will quit for the day.
1510 Doing COCs, etc.
1550 Left Base.



(90)

Monday, 31 Oct 94 R. Mitchell
0600 Arrived on site - driller will probably arrive at 0700. Calibrating equipment, discussing project w/ new geologist.
0800 Working at 04-004 PZ.
Taking water level measurements, calculating well volume, etc.
0820 Pumping to sample well.
0845 Well was pumped dry - prior to 3rd well volume - we will allow it to recharge and ~~Steve~~ will purge again tonight, or tomorrow morning. We will install 04-003 PZ next.
0905 Left msg for Ruth Ladley (she is on JDY today).
1030hrs Red car arrives; it is locked w/a ; ~~it~~ the CRS paperwork inside.
1144 Working on last piezometer. Push-pull rod on rig has snapped. Drillers are heading to a welding shop to

Monday, 31 Oct 94, B. Mitchell
repair it. They will have another one Flexed here tomorrow



Tuesday, 1 Nov. 94 B. Mitchell
0600 Arrived on site.
0630 Conducted tailgate briefing.
0650 Sampling PZ4.
0720 Sampling complete.
0730 Purging (initial purge) the other 3 piezometers.
0850 PZ3 seems to be filled w/ sediment to a level of 6 ft. BLS.
0920 We're still trying to purge/clear PZ3. Casing/Screen keeps jamming up w/ silt, we are trying to clear the fine silt out of the piezometer.
0940 We have given up on this effort. We are now moving to continue with push sampling.
1000 Talked to Ruth Lodder - ARNG Project Manager. She said that we do not have to get a water sample from PZ3 since we will be putting a monitoring well in the area. Also, I mentioned

Tuesday, 1 Nov '94 D. Mitchell

that we were having problems obtaining GC water samples from some of the PS points. She agreed that there was no need to punch additional holes just to get a GC water samples.

1020 Called John Morris. He stated that we should put off purging/sampling of piezometers until after all PwSL samples have been completed. He also mentioned that we should only purge the wells once rather than twice as I had planned to do.

1045 Contacted Earl Parker ref. Driller contract. Will have drillers (1/50) prepared to be on site this Friday.

1110 Starting at PS4-04.

1200 Completed point 04-014 PS.

1215 OT

1300 Drilling 011, 012, & 013 (along

Tuesday, 1 Nov '94 B. Mitchell.

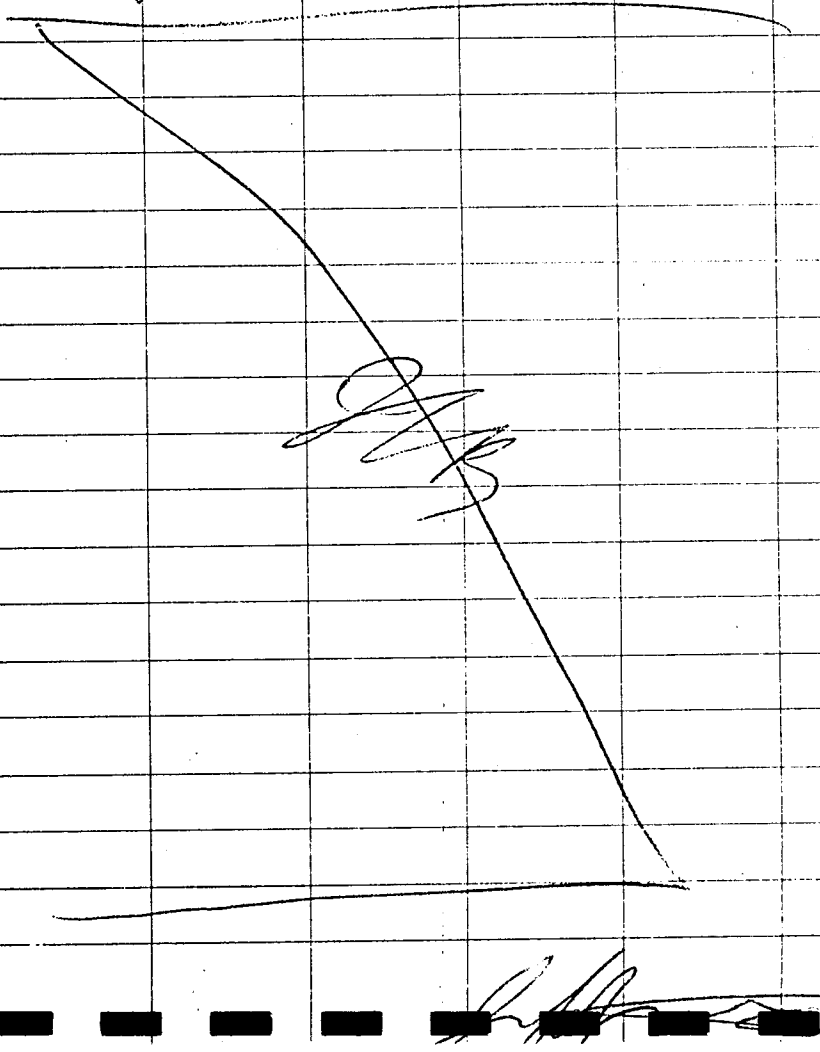
afternoon)

1400 Contacting Drillers - Arranging to have them start work on this Friday.

1615 Completed sampling 04-03 PS.

1655 Observing final decon procedures.

1748 Departed site



Wednesday, 2 Nov 94 B. Mitchell

Nichols-Surveyors — 0800 - Gate shack

0600 Arrived on Base.

0630 Punching hole no. 04018 PS.

0631 Our shipment of soil bottles for DRO + GRO has not arrived yet (scheduled to have arrived yesterday). Therefore, we will only use one bottle for DRO + one for GRO for each sample (rather than 2). Also, we will collect no QA/QC samples for soil until more bottles arrive.

0750 No. 018 PS done. Drill Rig has broken an axle and is immobile. We must again await repairs.

0800 Surveyors arrive to survey Piezometers.

0805 I suggested we take QA/QC samples on split spoon and bailer, but driller (Craig) left w/ vehicle + equipment for end

Wednesday, 2 Nov 94 B. Mitchell

a repair shop so we can't take samples, can't purge/sample piezometers because pump needs the generator to run (generator on rig).

0900 Rig has been fixed — moving to point 04-016PS.

1000 Setting up at site 04-017PS. (Note: we only were able to recover soil samples at the 1-3' depth on at point 04-016 PS.

1110 Moving to site 04-004 PS

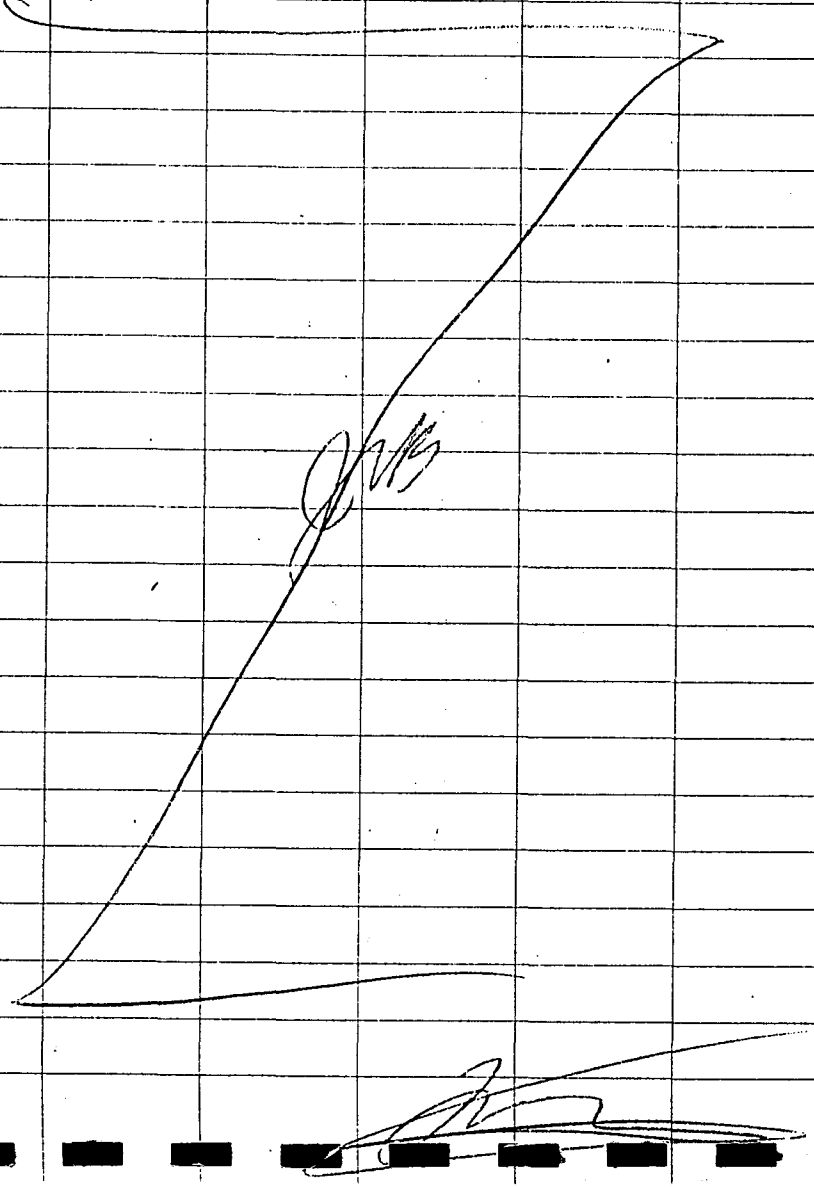
1203 hrs - Completed site 04-004PS. Only one soil sample set taken as we hit groundwater on the 1-3' sample spoon.

1320 Setting up at site 04-021PS. Waiting for PID to be repaired/recharged.

1335 Called Ruth Lawler, ANGRC, and left a progress report on her voice mail.

(48)

Wednesday, 2 NOV '94 B. Mitchell
1618 Completed point 06-037.
Moving to perform final
night recon. Craig Hanking
will play and seal holes.
1720 Left site



(49)

Thursday, 3 Nov 94 B. Mitchell
0600 Arrived on site
0630 Took QA/QC samples
on split spoon and bailer
0700 Working on 06-033PS
Tried to take an MS/MSD
but did not get enough
soil to complete sample.
Will try again on next
point. Also only taking
1 GRO + 1 DRO bottle
per sample until we
get the rest of our
bottle delivery from
the lab.
0830 called Ruth Ladeler
and gone her our daily
Stats report.
0900 Gave Drillers (OSI) some
changes on casing sizes for GW
wells (There was a discrepancy
between the SOW and
the work plan.
OSI Cleared to work
at Pt. 037 (SGT Stever

(50)

Thursday, 3 Nov '94 B. Mitchell

Webster.

1000 Completed site - moving to last site (04-0825).

1015 I was notified by Marc Escobar that Pace Labs had called and told us that they had failed to ~~the~~ get solvent in the DRO soil samples taken on 26 Oct 1994.

1100 Phone con w/ John Mamsi & Matt Alexander of Ecft. They stated that we should re-sample the points for DRO.

1130 - I notified Ruth Ballam

1200 OTL

1250 Resampling pts: 020, 023, 027, and 028 for DRO, to include MS/MSD sample at pt. 023. We will attempt to get a sample at 1-3' on 027 (no recovery on our original attempt on 26 October 1994.

1400 Recd first sample (1-3')

(51)

Thursday, 3 Nov. 94 B. Mitchell

from sample pt. 023

1520 All points re-sampled.

1530 Moving to sample pt. 2. Only one purge, but being sampled as per John Mamsi'oder.

1620 On site at PZ2 - We did not get a good purge at this site due to clogging of the well by sediment. However, we will attempt to get a ~~water~~ ground water sample anyway. (Probably only enough for VOC analysis).

1643 We attempted to go back to PZ2 to finish collecting our PAH sample (we did not get enough sample for analysis on our first attempt), but we were kicked off the flight line area because planes were scheduled to land. Therefore we will not have a full bottle for PAH analysis.

1315-139 (52)

Friday, 4 Nov '94 B. Mitchell

0615 Arrived on base

0630 Put up flags at GW monitoring well sites selected by Geologist (Andrew) Ramingi

0730 Cleared sites w/ CPT Wickman (Civil Engineering office).

0800 Maj. — Base engineering office stated that all drums should be moved to the SW corner of the building

0900 Started drilling MW 1.

0900 Jon 105 John Morris indicated that we should go ahead w/ the wells, but we should get approval from ANGRC first (WTF?)

1050 I have not been able to contact any one at the Environmental Compliance Branch at ANGRC. The only human voice I can get is a secretary from another division who can't

(53)

Friday, 4 Nov '94 B. Mitchell

figure out how to transfer me to Ruth Ladder's voice mail. I left a msg. w/ the secretary to have Ruth page me.

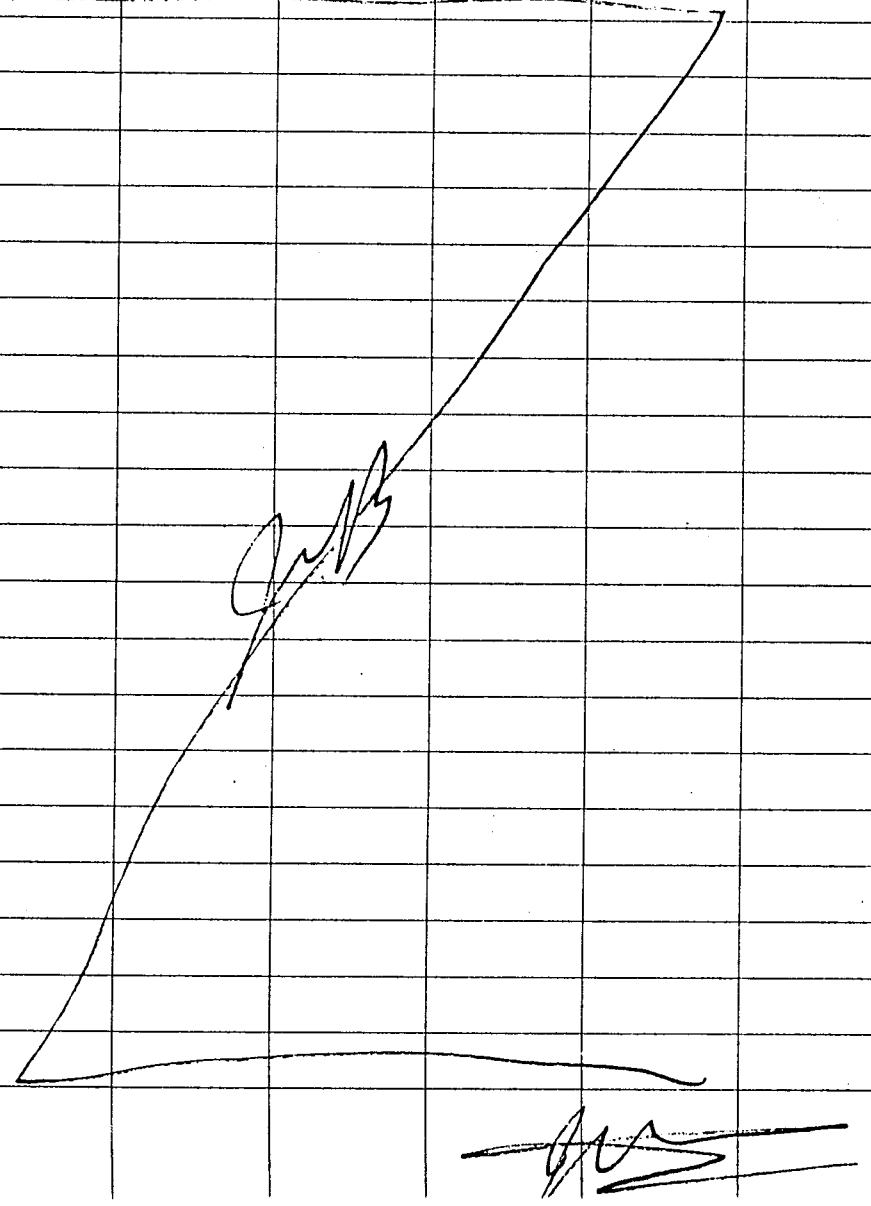
1200 Requested that Surveyors fax us information on Bizmeter levels (they didn't give it to us yesterday as requested). They will fax it to the installation and I will send it to Ruth, as Requested (I left msg. w/ the receptionist)

1230 Andrew & I talked to Ruth Ladder — She okayed our well plan.

1350 CPT Wickman indicated that she wanted flush mounted wells rather than above ground wells.

1510 After discussions w/ Ruth Ladder, the Drillers, CPT Wickman, and John Morris, a compromise was reached on the well

Friday, 4 Nov 94, B. Mitchell
Situation: Wells will now be above ground, but well cap and posts will be no more than 3 ft. above ground.



Monday, 7 Nov 94 B. Mitchell.
0605 Arrived on base
0640 We have conducted our health & safety briefing and are preparing to drill MW5. We are now awaiting the arrival of our new geologist (Kathleen Mesmo). We can not sample until she arrives.
0654 1-3' Sample brought up (): 446 (low count.).
0700 Soil in well has some moisture from 7-11', but not much. Recharge at this well will probably be very slow.
0740 Well complete (except cover portion - moving to decon area.
Mark Escobar has purged MW1.
0720 left msg. for Ruth Bedder.
0930 Drill Rig got stuck in the mud - awaiting for foam ANG personnel.

(56)

Monday, 7 Nov 94 — B. Mitchell

1025 – Installing MW2 (along apron – close to PZ2).
1200 Hole (well) completed.
1230 Lunch
1340 Drilling well 3 (04-003 MW).
1400 Soil smells strongly of gasoline, but PID reads 0.0 (probably due to strong Northerly (to the North) wind (0.0 ambient).

(57)

Tuesday, 8 Nov. 94 — B. Mitchell

0615 Conducted safety & health briefing (Dawn was the SSO rather than site manager).
0640 Calibrated PID as per previous method.
0650 Purging & sampling well no. 1.

well vol. (gals.)	pH	temp	cond.
1	7.02	53.0	11.53 x 100 (1153).
2	7.04	55.4	1155
3	7.04	54.5	1145
4	7.10	54.6	1148
5	7.08	54.8	1141
6	7.07	54.7	1143

0735 Completed sampling at MW1.
0810 Meeting w/ CPT Wickman, CPT to discuss drum storage problems. I will get back with her this afternoon.
0850 Working on developing MW3. Strong smell, but BZ PID at 0.0.
0940 Drillers moving into Apron area. They are having

Tuesday, 8 Nov 94 B Mitchell.
escorted by security personnel to/fr ops picked up flight schedule for the next two days from flight scheduling office.
1060 - Drillers were escorted off Apron area by security patrol. CE contact (CPT Wickman) not available (at a meeting). Security personnel okayed the exit.
1200 sampling/ probes development done for the day - now QR.
1250 Loading drums onto pallets w/ help of the remaining driller (he was waiting for the concrete truck). NE (per CPT Wickman) will then move the barrels to the SW corner of the base.
1320 Concrete truck arrive. I assisted/consulted on the finer points of pouring concrete.

Tuesday, 8 Nov 1994 B. Mitchell
1430 called Surveyors. They will be here at 0800 Thursday to finish surveying and bring results of last week's work.
1600 Drillers will arrive early tomorrow w/ 2 - 3 people to help move drums to areas easily accessible by the crane. Otherwise can be overlifted by the base personnel.

Wednesday, 9 Nov 94 B. Mitchell

0600 Arrived on base.
0630 Conducted Safety & Health briefing.
0640 Kathleen & Mark will purge & sample wells. I will go w/ the drillers to palletize/move 55 gallon drums.
0730 Rig stuck in mud as we tried to move to well area along the apron. Effort to pick up drums abandoned.
0755 Drillers are going to paint post at wells (safety yellow).
0828 Called Ruth Corbett and gave her my morning report.
0900 Sampling at MW3. Strong gasoline odor at well top, PID readings of up to 200ppm, but generally at 25-30ppm in well casing. Ambient and BZ levels were between 0.9 and 1.5. Strong winds kept readings low. PID was reading 0.9 to 1.1 even upwind (Problem w/ PID? - will re calibrate). Therefore, actual BZ levels probably in

Wednesday, 9 Nov 94 B Mitchell

6.0 to 0.4 ppm. Kathleen complained of smell, so I had her stand upwind & told her to wear respirator if it still bothered her. Mark & I had no problems w/ the odor.
0945 ANG will provide front-end loader to move drums from along the apron (we will load it). Also, they will move the pallets at 1300 (to SW end of post).
(Talked to CPT Wickman and 1LT Huelsman).
1053 called Landscaper re: hiring someone to fill & seed tracks from the drilling rig. Estimator will not be available until this afternoon, so I will call after we have moved the drums.
1105 Prog Mgr Side Manager (Kathleen) informed me that she forgot to take pictures of water from purged wells (as per workplan). I noted. Since it was done for MW 04-05.

9 Nov 94 B. Mitchell

1300 wells have been completed (painting, etc.). Also, sampling was completed at 11/5hrs.

1305 Drove around base to show CPT Wickman drum locations (w/ pallets). Forklift began moving drums to SW corner of the base.

1340 forklift got stuck trying to move drums from decon area.

*Addendum to above (1305) - CPT Wickman stated that wood frames had to be removed from wells - drillers will return on Friday after wells have had a couple of days to set. Also, she wants soil + grass placed around all wells so that they will be flush w/ the ground, not above ground as in work plan.

Wednesday, 9 Nov 94 B. Mitchell.

1430 We have removed most of the pallets (drums. 2 pallets w/ 3 drums remain. The forklift operator will remove them when the ground is drier. The ground is very soft today since it rained all night.

1500 Pouring lab set (5) for wells + wire brush to remove cement from pkg well covers.

1530 Called Andy from Kuehne landscapers - I will meet him at the front gate at Bucks in order to get an estimate of the cost of grass repairs.

1545 Locking first 4 wells and wire brushing well casings (remaing concrete/cement).

Thursday, 9 Nov '94 B. Mitchell

0530 Meeting to discuss Hermit datalogger procedures.

0800 Arrived on base. Awaiting Surveyors.

0830 Surveyors arrive - took them around the base & pointed out flags at sites.

0900 Returned to hotel to try to figure out Hermit problems.

1020 John Morris called to discuss Kathleen's headache from yesterday (She talked to Steve Wilson about it yesterday & mentioned it to Ruth Ladder today). She wants her to come to San Antonio & he will send me another person to do the sling feed.

1100 Carl Parker will replace Kathleen. We are preparing to take her to the airport.

1240 Dropped Kathleen off at airport - moving to site (base) to meet landscapers for a 1300 meeting.

Thursday, 9 Nov 94 B. Mitchell

1315 - 1339

1310 Landscaper arrives. He will give me a quote on the total project at about 1530 hrs today. He will also give separate prices for the tire tracks and building up the areas around the wells.

1330 Met w/ Surveyors - provided them w/ additional maps & checked on their progress. They will send their results to our San Antonio office.

1345 Called John Morris reference landscaping. He does not want to level off the areas around the well. We may fill in the tire ruts, depending on the cost.

1400 Talked w/ Todd from Pace Labs reference samples from 25 locations. He indicated that there was a discrepancy between the coc document & sample bottle label at point 33. He will talk to Mark about it. He also stated that

Thursday, 9 Nov '94. B. Mitchell

Two drillers (NKO) did not have enough sample to analyze (soil).

1415-1500 Negotiating w/ Landscapers.

1510 Updating site map.

1530 Landscapers will fill in tire ruts (available next week) for $850 (tax included).

1540 Called CPT Wickman to tell her about filling in tire tracks, drum status, locks on wells, etc. Also left a written note for LT Huelsman.

1600 Preparing IDW log (drum inventory).

1700 Left site

1715 Packing equipment.

Friday 10 Nov '94 B. Mitchell.

- call drillers reference forms removal
- storage building - check boxes.
- Call landscapers - contracting w/ Norma

0630 Arrived on site.

0700 performing slug test on OU-03SMW

0710 H&S + Safety briefing conducted for myself & Earl Parker (see back page of notebook).

0715 12 Y/th - TOC to water.

0735 Called Landscapers to inform them that we would contact them on Monday re: a contract since our office is closed today.

0745 Called drillers. They will remove the forms on Monday.

0850 No recharge in well (or very slow moving to mark).

1020 We can not get the printer to work, so we don't know if the slug test data is good. HAZCO technical support staff is limited due to the holidays, therefore they can not provide any useful help

Friday, 10 Nov '95 B. Mitchell

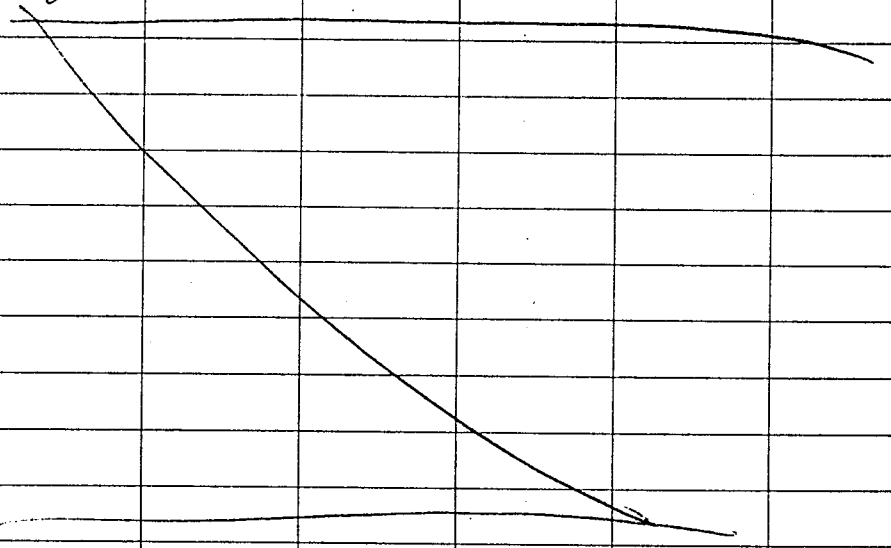
1400 Well No. 04-001 (just finished well 04-002).

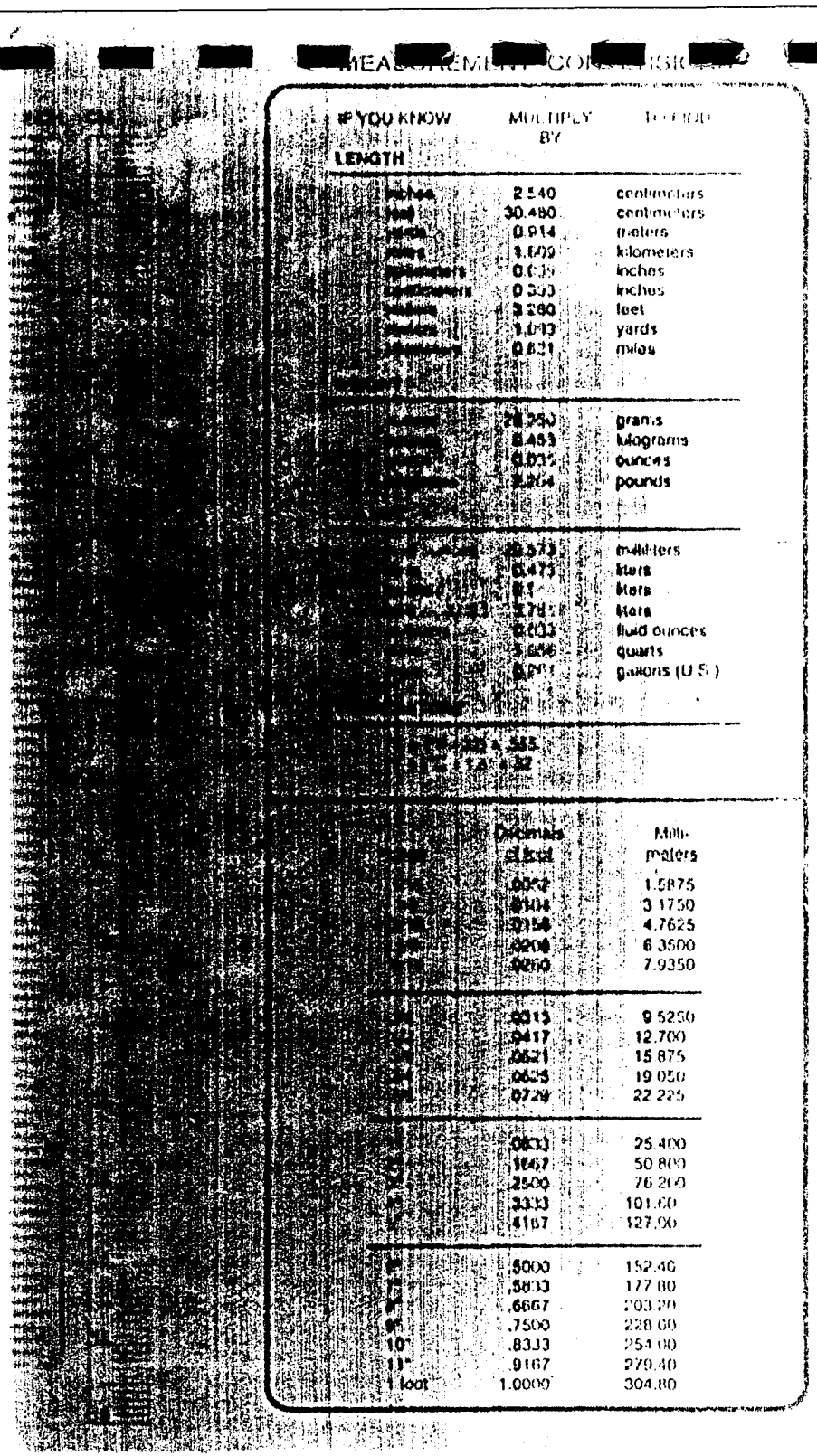
1630 ABB will pick up our stuff from the Grand Milwaukee Storage room on monday.

1700 Running final well and packing equipment.

1830 Turned over keys to monitoring wells to the Gate Guard w/ instructions to give them to LT Robert Thielsman.

2030 Fedexed Hazco + Onsite Equipment.





IF YOU KNOW	MULTIPLY BY	TO FIND
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feet	30.480	centimeters
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[illegible]	.7500	228.60
10"	.8333	254.00
11"	.9167	279.40
1 foot	1.0000	304.80

Name Kathleen Merino

Address 4100 NW Loop 410 Ste 230
San Antonio, TX 78229

Phone (210) 731-0000

Project Billy Mitchell ANGB
Milwaukee, WI
Lt. Rob Huelsman

CONTENTS

PAGE	REFERENCE	DATE

20 Dec 94

0630 Loaded supplies in vehicles

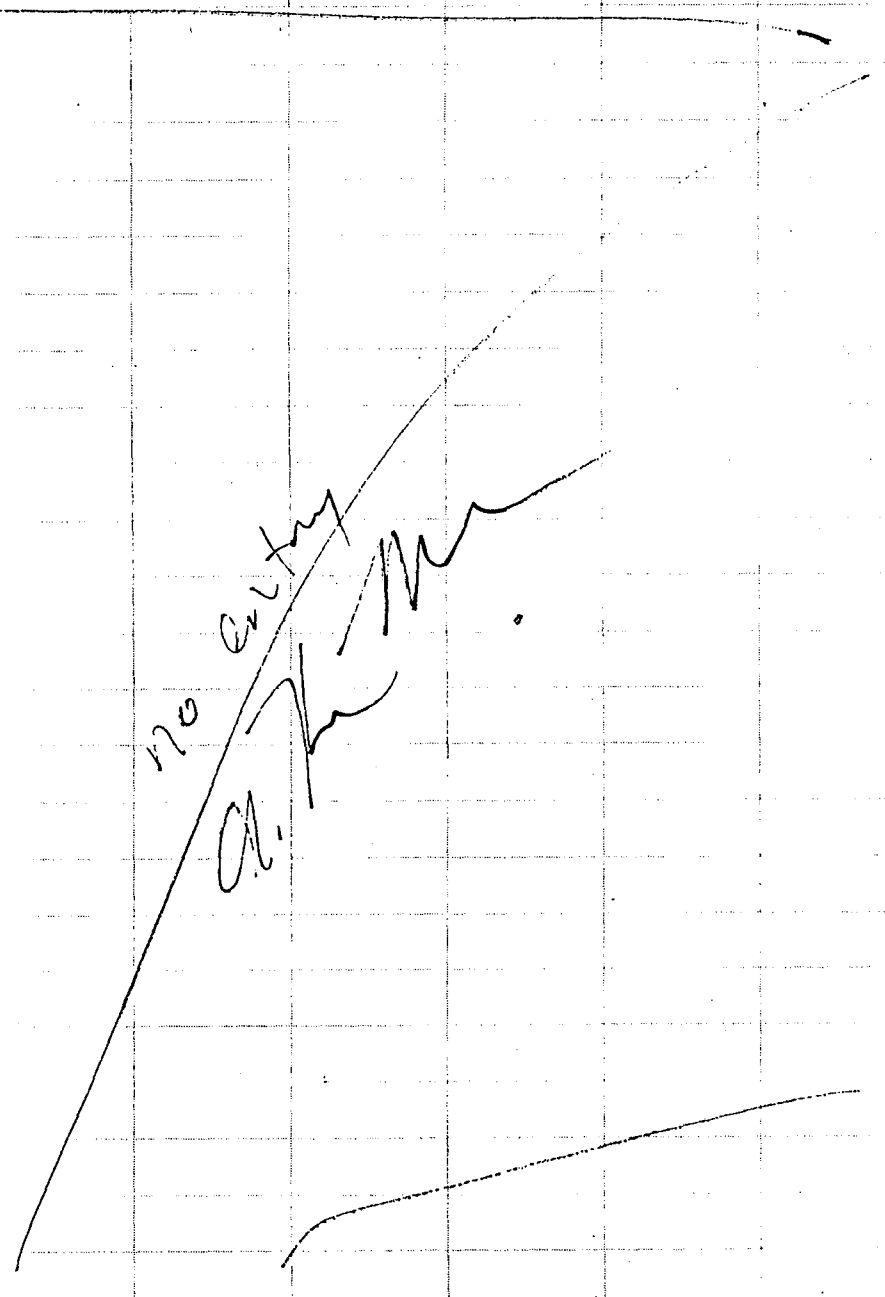
0700 Breakfast / Meeting

0800 Arrived on Base. Met w/ Lt. Rob Huelsman. He said he would contact security, but to let him know before we went on the apron.

0900 Got key to storage shed Unloaded supplies. Set up decon. Calibrated PID Determine at Calibrated Hydac (took ~30 mins)

1100 Arrived at 04-005MW

PID at well opening

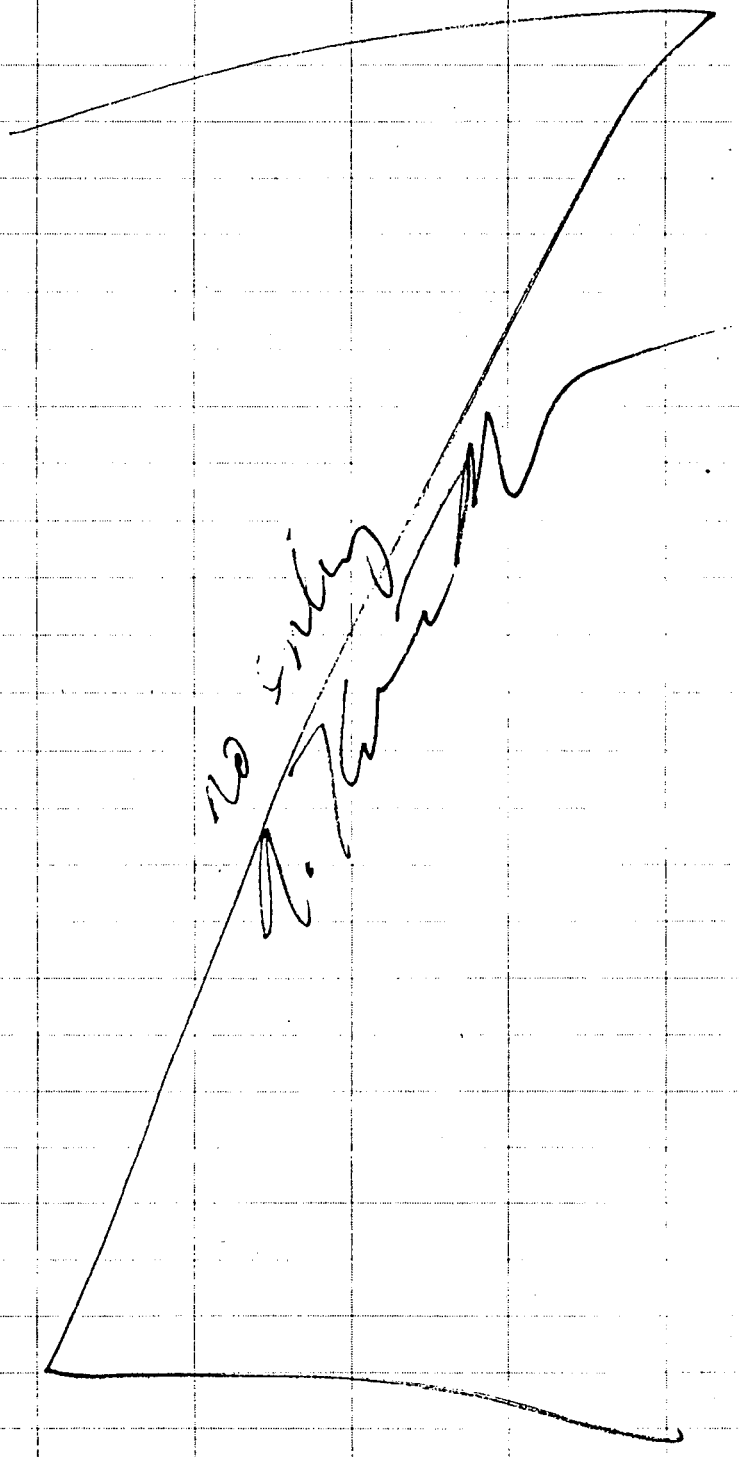


Weather cloudy cold ~35°

Water level TOC → w.l.
= 5.92'

T.D = 20.28'

Vol	pH	Cond	temp °F
3 gal	6.04	1.36	49.7° F
4 gal	5.23	1.39	50.5
5 gal	4.95	1.67	51.0°
6 gal	4.80	1.65	51.2°
7 gal	4.63	1.61	51.2
8 gal	4.63	1.58	52.0
9 gal	4.60	1.60	51.9



Samples to be collected

8310 PAH - 1 l Amber

8020, GRO - 3 VOCs

DRO - 2 sm. Amber

6010 Pb - 1 plastic bottle

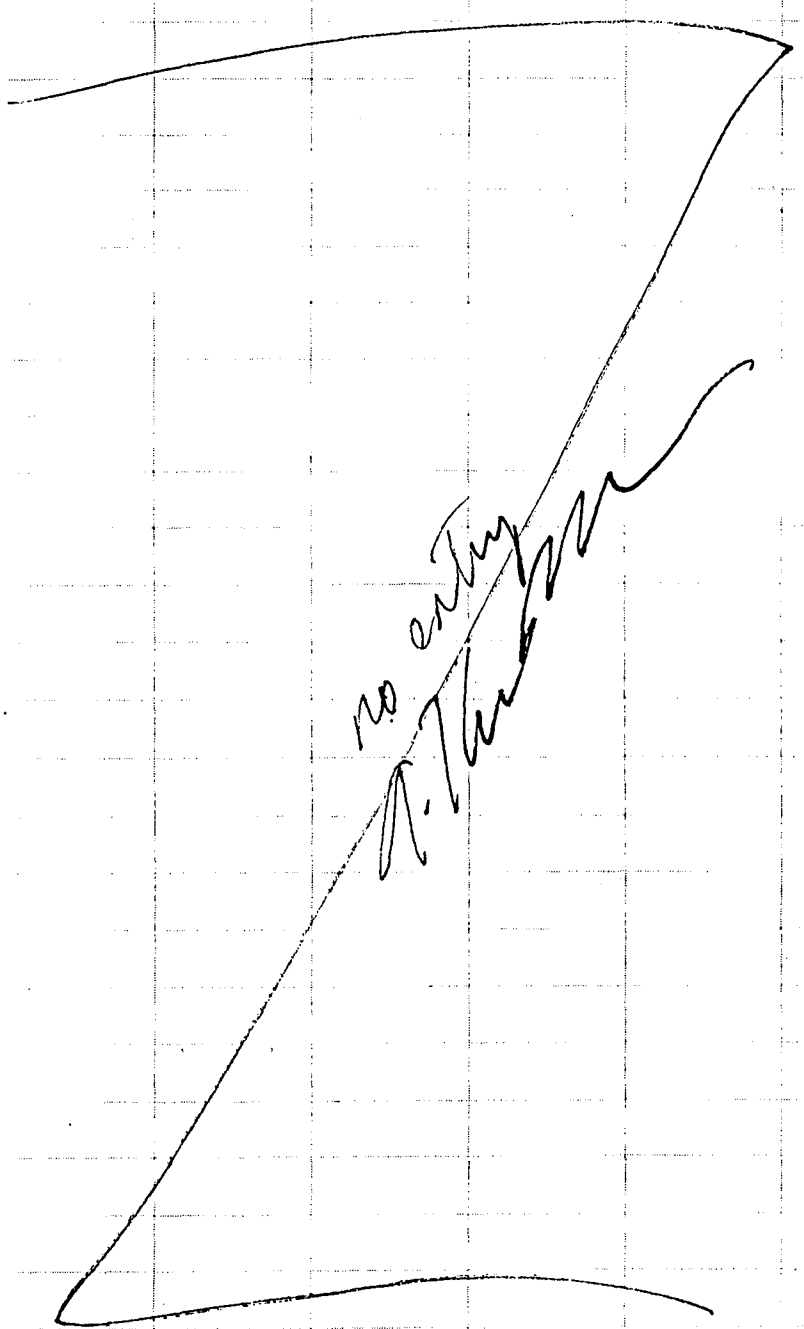
Depth to water (TOC →) = 17.48'

1135 Env. Sample collected @ 1135

1155 Joe, Ray left to decon equipment

1205 04-004 MW

PID at opening of well cap = 0.0



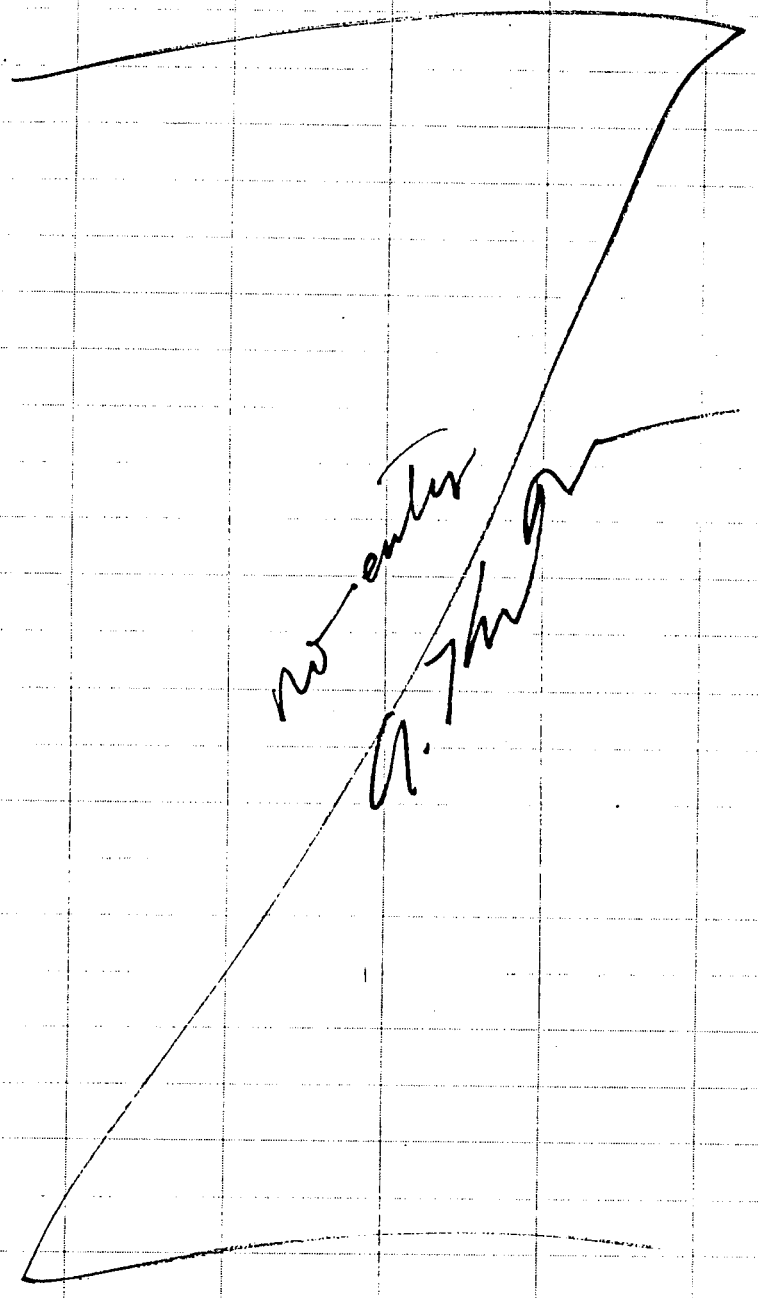
1215 **04-004MW**

TOC → water level = 7.21'

TD = 18.98'

1220 Began Purging, Hydac recalibrated

Vol	pH	Cond	Temp °F
1 gal	8.50	1.78	49.2°
2 gal	8.55	1.80	50.5°
3 gal	8.21	1.85	51.1°
4 gal	8.50	1.92	51.9°
5 gal	8.51	1.95	51.8°
6 gal	8.20	2.02	51.6°



04-004 MW

Water level from TOC = 8.50'

1230 Env sample collected

~~1300~~

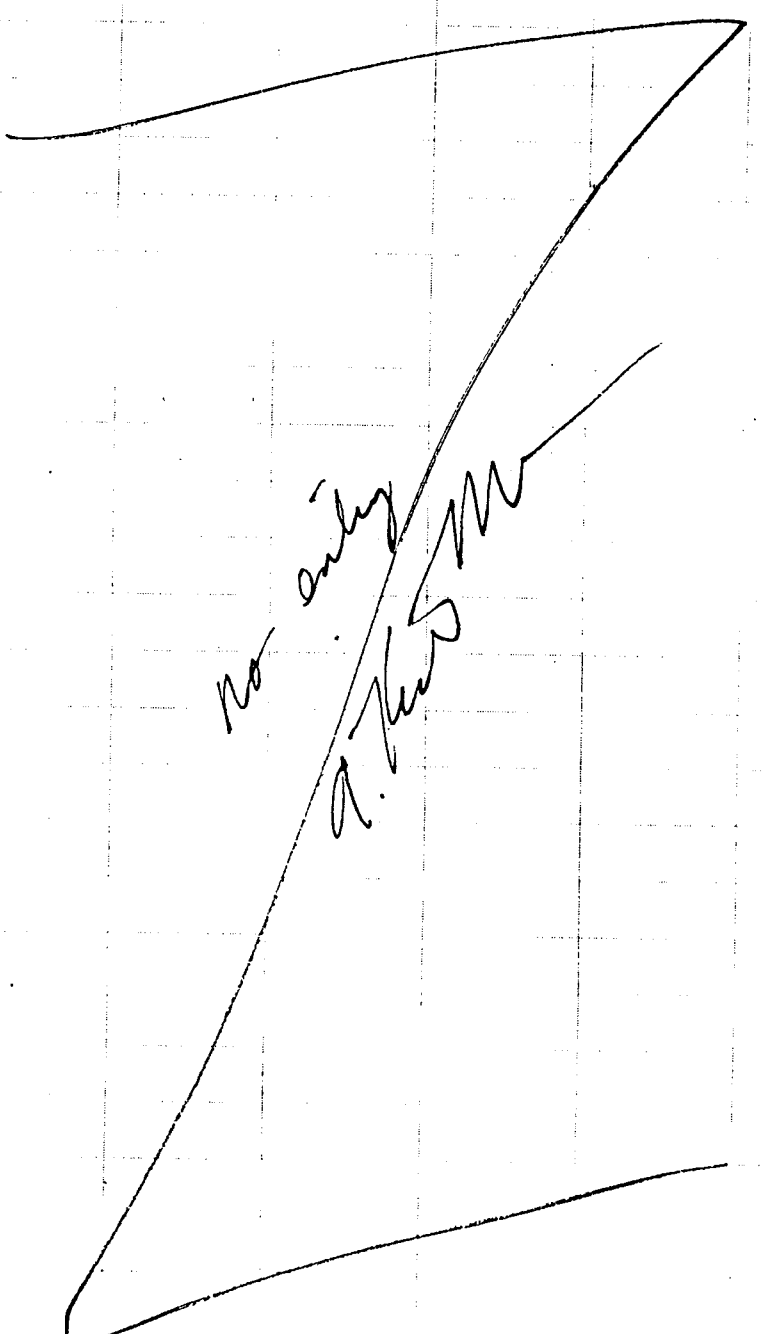
1245 Joe & Ray left to decon equipment

1305 04-001 MW

PID at opening of well cap = 0.0 ppm

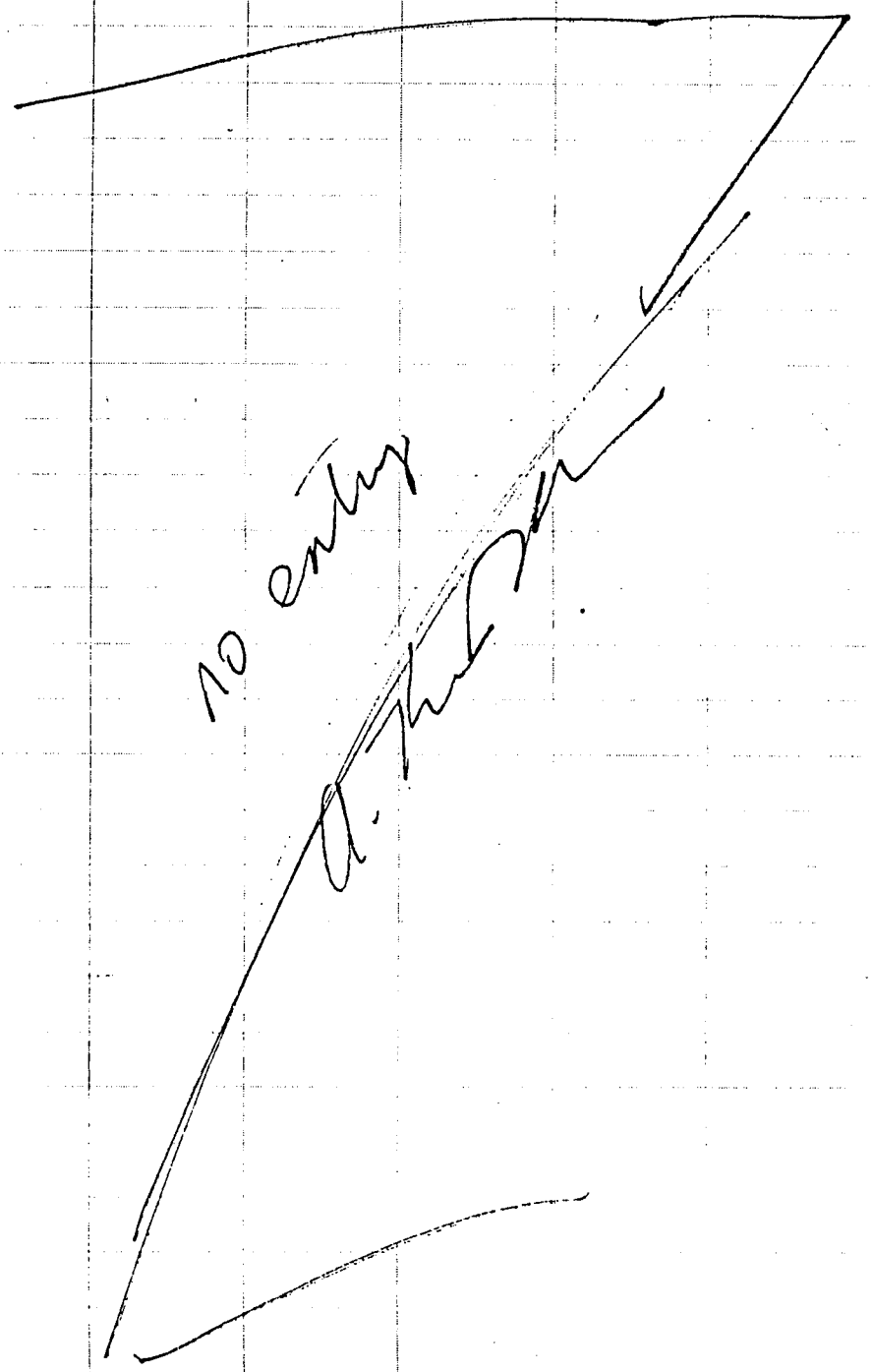
Water level from TOC = 6.24'

TD = 19.9'



Vol	pH	cond	temp °F
1 gal	7.36	1.96	49.2
2 gal	6.90	1.90	49.3
3 gal	6.91	1.97	50.1
4 gal	6.95	2.00	50.7
5 gal	6.61	2.06	50.5
6 gal	6.61	2.01	50.5

1330
Env. Sample collected
Dup Sample collected



1420 04-002MW

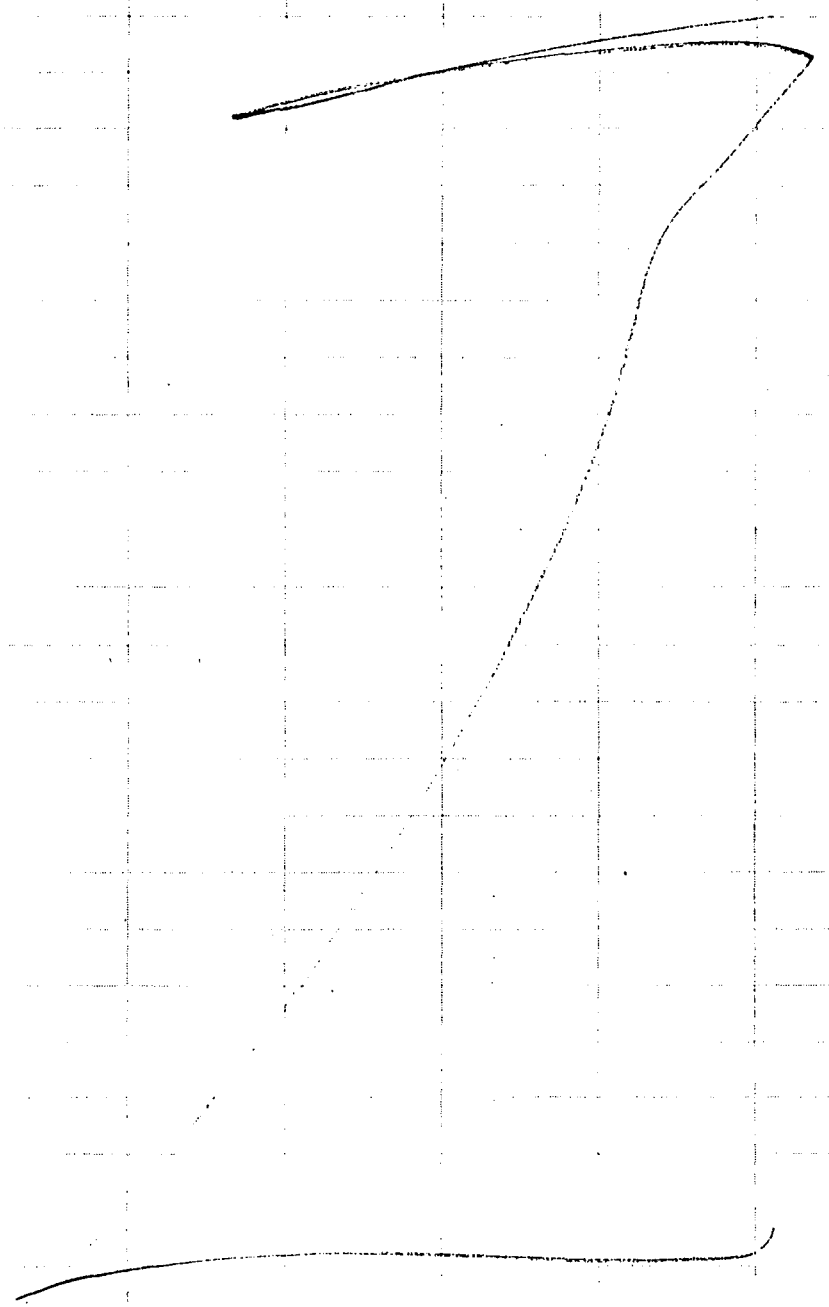
PID at well opening = 0.0ppm

Water level → TOC = 7.42' TD=20.3

Vol	pH	Cond	Temp
1 gal	6.58	1.96	48.2
2 gal	6.50	1.96	50.5
3 gal	6.35	2.01	50.8
4 gal	6.32	2.00	51.1
5 gal	6.55	1.97	51.0
6 gal	6.40	1.93	50.7

1435

Env. Sample collected



1530 Arrived at 04-0031MW
Donned Level C
gear

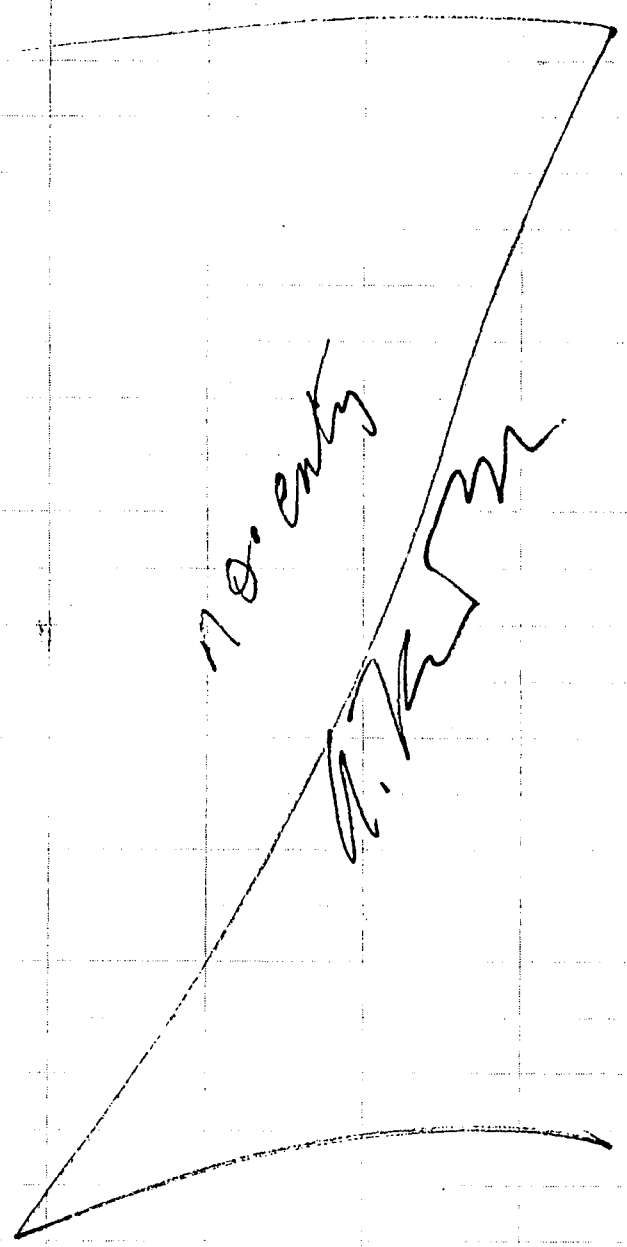
PID at well opening 829ppm

TOC → water = 5.78'

TD = 19.36

Amb PID = 4 → 10ppm
Breath
zone

Vol	pH	cond	temp
1 gal	6.61	1.76	45.1
2 gal	6.20	1.75	45.4
3 gal	6.22	1.71	50.1
4 gal	PID at well entrance 1.29 ppm		



Vol	pH	cond	temp
4 gal	6.10	1.76	50.7
5 gal	6.10	1.79	51.2
~~6 gal~~			

Env. sample collected

APPENDIX B

FIELD GC SCREENING RESULTS

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Table B.1
Field GC Results of Soil Samples
128th ARG, General Billy Mitchell ANGB, Milwaukee, Wisconsin

Borehole/Interval (ft BLS)	Concentration (ppb)					
	Benzene	Toluene	Ethyl-benzene	M,P-Xylenes	O-Xylene	Total BTEX
04-001PS (1 - 3)	ND	ND	ND	ND	ND	ND
04-001PS (5 - 7)	40	1	ND	ND	ND	41
04-002PS (1 - 3)	ND	3	ND	ND	ND	3
04-002PS (5 - 7)	3	3	ND	ND	ND	6
04-003PS (1 - 3)	ND	3	ND	ND	ND	3
04-003PS (5 - 7)	ND	ND	ND	ND	ND	ND
04-004PS (1 - 3)	ND	ND	ND	ND	ND	ND
04-005PS (1 - 3)	ND	ND	ND	ND	ND	ND
04-005PS (5 - 7)	8	15	3	ND	ND	26
04-006PS (1 - 3)	ND	ND	ND	ND	ND	ND
04-006PS (5 - 7)	ND	ND	ND	ND	ND	ND
04-007PS (1 - 3)	ND	ND	ND	ND	ND	ND
04-007PS (5 - 7)	ND	ND	ND	ND	ND	ND
04-008PS (1 - 3)	ND	ND	ND	ND	ND	ND
04-008PS (5 - 7)	9	ND	ND	ND	ND	9
04-008PS (8 - 10)	ND	1	ND	ND	ND	1
04-009PS (1 - 3)	ND	1	ND	ND	ND	1
04-009PS (5 - 7)	ND	1	ND	ND	ND	1
04-010PS (1 - 3)	1	ND	ND	ND	ND	1
04-010PS (3 - 5) Dup	ND	ND	ND	ND	ND	ND
04-010PS (5 - 7)	ND	ND	ND	ND	ND	ND
04-010PS (8 - 10)	ND	ND	ND	ND	ND	ND
04-011PS (1 - 3)	37	5	2	10	ND	54
04-011PS (5 - 7)	ND	ND	ND	ND	ND	ND
04-012PS (1 - 3)	2	2	1	11	ND	16
04-012PS (5 - 7)	107	2	ND	5	ND	114
04-013PS (1 - 3)	ND	7	ND	3	ND	10
04-013PS (5 - 7)	27	37	2	11	ND	77
04-014PS (1 - 3)	68	12	29	209	ND	318
04-014PS (7 - 9) 5X	ND	58,500	36,300	500,000	30,300	625,000
04-014PS (7 - 9) 20X	111,000	20,900	11,000	265,000	4,972	413,000
04-015PS (1 - 3)	ND	ND	ND	ND	ND	ND
04-015PS (3 - 5) 20X	ND	54,400	12,400	317,000	5,020	389,000
04-015PS (3 - 5) 50X	ND	24,700	12,500	98,600	ND	136,000
04-016PS (1 - 3)	58	ND	ND	108	ND	166
04-017PS (3 - 5)	ND	ND	ND	ND	ND	ND

Table B.1 (Continued)
Field GC Results of Soil Samples
128th ARG, General Billy Mitchell ANGB, Milwaukee, Wisconsin

Borehole/Interval (ft BLS)	Concentration (ppb)					
	Benzene	Toluene	Ethyl-benzene	M,P-Xylenes	O-Xylene	Total BTEX
04-018PS (1 - 3)	ND	ND	1	ND	ND	1
04-018PS (5 - 7) 2X	ND	ND	ND	539,000	123,000	662,000
04-018PS (5 - 7) 25X	13,500	26,100	14,500	175,000	7,850	237,000
04-019PS (1 - 3)	ND	ND	ND	ND	ND	ND
04-019PS (5 - 7)	26	154	21	71	ND	272
04-020PS (1 - 3)	ND	ND	ND	ND	ND	ND
04-020PS (5 - 7)	801	2,190	1,690	4,930	14	4,630
04-021PS (1 - 3)	ND	ND	ND	ND	ND	ND
04-021PS (5 - 7)	ND	ND	ND	ND	ND	ND
04-022PS (1 - 3)	ND	ND	ND	ND	ND	ND
04-022PS (5 - 7)	ND	ND	ND	ND	ND	ND
04-023PS (1 - 3)	1	3	9	144	67	224
04-023PS (3 - 5) MS/MSD	3	ND	1	22	8	34
04-023PS (5 - 7)	1	ND	ND	6	ND	7
04-024PS (1 - 3)	13	14	1	ND	ND	28
04-024PS (3 - 5)	5	12	ND	6	ND	23
04-025PS (1 - 3)	26	21	51	112	ND	210
04-025PS (3 - 5) Dup	20	32	ND	ND	ND	52
04-025PS (5 - 7)	5	3	ND	ND	ND	8
04-025PS (10 - 12)	132	ND	ND	ND	ND	132
04-026PS (1 - 3)	ND	ND	ND	ND	ND	ND
04-026PS (5 - 7)	ND	ND	ND	ND	ND	ND
04-027PS (1 - 3)	ND	ND	ND	8	ND	8
04-027PS (5 - 7)	ND	ND	ND	2	ND	2
04-028PS (1 - 3)	ND	6,310	2,650	31,200	17,600	57,800
04-028PS (5 - 7)	ND	ND	87,400	ND	82,000	169,000
04-029PS (1 - 3)	7	2	ND	ND	ND	9
04-029PS (5 - 7)	ND	ND	ND	ND	ND	ND
04-030PS (1 - 3)	ND	1	ND	ND	ND	1
04-031PS (1 - 3)	28	ND	ND	ND	ND	28
04-031PS (5 - 7)	39	ND	ND	ND	ND	39
04-032PS (1 - 3)	ND	ND	ND	ND	5	5
04-033PS (1 - 3)	2	ND	ND	ND	ND	2
04-033PS (3 - 5)	1	ND	ND	ND	ND	1

Table B.1 (Continued)
Field GC Results of Soil Samples
128th ARG, General Billy Mitchell ANGB, Milwaukee, Wisconsin

Borehole/Interval (ft BLS)	Concentration (ppb)					
	Benzene	Toluene	Ethyl-benzene	M,P-Xylenes	O-Xylene	Total BTEX
04-034PS (1 - 3)	ND	1	ND	ND	5	6
04-034PS (3 - 5)	9	1	1	1	ND	12
04-034PS (5 - 7)	ND	ND	1	ND	ND	1
04-035PS (1 - 3)	ND	ND	ND	ND	ND	ND
04-035PS (5 - 7)	ND	ND	ND	ND	ND	ND
04-036PS (1 - 3)	ND	ND	ND	ND	2	2
04-037PS (1 - 3)	ND	ND	ND	ND	ND	ND
04-037PS (5 - 7)	2	ND	ND	ND	ND	2
04-038PS (1 - 3)	ND	ND	ND	ND	18	18
04-038PS (5 - 7)	ND	ND	ND	ND	ND	ND
04-038PS (10 - 12)	ND	ND	ND	ND	ND	ND
04-001PZ (1 - 3)	ND	432	376	3,270	2,615	6,690
04-001PZ (5 - 7)	ND	ND	ND	ND	ND	ND
04-002PZ (1 - 3)	11	40	13	189	10	263
04-002PZ (5 - 7)	ND	ND	ND	14	ND	14
04-003PZ (1 - 3)	ND	ND	ND	ND	ND	ND
04-003PZ (3 - 5) Dup	ND	ND	7,350	1,470	54,900	63,700
04-003PZ (3 - 5) Dup 5X	ND	25,300	6,900	89,900	73,200	195,000
04-003PZ (5 - 7) 2X	3,730	4,070	1,460	15,900	374	25,500
04-004PZ (1 - 3)	ND	ND	ND	ND	ND	ND
04-004PZ (5 - 7)	ND	ND	ND	ND	ND	ND
04-004PZ (8 - 10)	ND	ND	ND	ND	ND	ND
04-001MW (2 - 4)	18	2	2	ND	ND	22
04-002MW (1 - 3)	ND	1	ND	ND	ND	1
04-002MW (10 - 12)	ND	2	4	ND	ND	6
04-003MW (1 - 3)	ND	ND	ND	1	ND	1
04-003MW (5 - 7)	83	96	71	1,000	ND	1,250
04-003MW (10 - 12) 10X	ND	214,000	405	150,000	ND	364,000

Table B.1 (Concluded)
Field GC Results of Soil Samples
128th ARG, General Billy Mitchell ANGB, Milwaukee, Wisconsin

Borehole/Interval (ft BLS)	Concentration (ppb)					
	Benzene	Toluene	Ethyl-benzene	M,P-Xylenes	O-Xylene	Total BTEX
04-004MW (1 - 3)	ND	ND	ND	ND	ND	ND
04-004MW (5 - 7)	ND	ND	ND	ND	ND	ND
04-004MW (10 - 12)	ND	ND	ND	ND	ND	ND
04-005MW (1 - 3)	5	50	ND	ND	ND	55
04-005MW (5 - 7)	2	1	ND	ND	ND	3
04-005MW (10 - 12)	11	4	ND	21	ND	36

ft BLS – feet Below Land Surface.
ppb – parts per billion.
BTEX – Benzene, Toluene, Ethylbenzene, and Xylenes.
PS – Push Sample.
GC – Gas Chromatograph.
PZ – Piezometer.
MW – Monitoring Well.
Dup – Duplicate.
ND – Non-Detect.
2X, 5X, 20X, 25X, 50X – Dilution Factors.

Table B.2
Field GC Results of Groundwater Samples
128th ARG, General Billy Mitchell ANGB, Milwaukee, Wisconsin

Borehole/Interval	Concentration (ppb)					
	Benzene	Toluene	Ethylbenzene	M,P-Xylenes	O-Xylene	Total BTEX
04-001PS	10	1	2	3	ND	16
04-002PS	34	ND	ND	ND	ND	37
04-003PS	ND	4	ND	ND	ND	4
04-004PS	2	8	ND	ND	ND	10
04-005PS	27	3	1	26	ND	57
04-006PS	ND	ND	ND	ND	ND	ND
04-007PS	12	2	ND	ND	ND	14
04-008PS	ND	3	ND	ND	ND	3
04-009PS	ND	ND	ND	ND	ND	ND
04-010PS	ND	ND	ND	ND	ND	ND
04-012PS 2X	12,000	936	664	5,588	ND	19,188
04-013PS	67	67	ND	47	ND	181
04-014PS 2X 04-014PS 5X	ND 6,610	5,000 26,126	13,300 9,910	167,000 114,000	49,900 54,700	253,000 211,000
04-015PS 20X	ND	38,200	12,000	290,000	5,270	346,000
04-016PS 2X	27,300	13,900	3,740	47,300	ND	92,240
04-017PS	ND	79	ND	ND	ND	79
04-018PS 20X	ND	19,000	8,780	158,000	835	187,000
04-019PS	5,310	4,110	2,840	19,900	7,000	39,200
04-020PS	ND	ND	ND	ND	ND	ND
04-021PS	1	ND	4	ND	ND	5
04-023PS	ND	ND	ND	ND	ND	ND
04-024PS 04-024PS 04-024PS	24 ND ND	5 248 66	ND ND ND	ND ND ND	ND ND ND	29 248 66
04-027PS	ND	ND	ND	ND	ND	ND
04-028PS 04-028PS	ND ND	ND ND	14,900 ND	47,400 228,000	45,600 65,300	108,000 293,000
04-030PS 04-030PS	74 ND	ND ND	5 ND	ND ND	ND ND	79 ND
04-031PS	ND	10	ND	ND	ND	10

Table B.2 (Concluded)
Field GC Results of Groundwater Samples
128th ARG, General Billy Mitchell ANGB, Milwaukee, Wisconsin

Borehole/Interval	Concentration (ppb)					
	Benzene	Toluene	Ethylbenzene	M,P-Xylenes	O-Xylene	Total BTEX
04-032PS	ND	66	ND	ND	ND	66
04-033PS	44	2	ND	ND	ND	46
04-034PS	37	3	ND	ND	ND	40
04-035PS	11	ND	ND	ND	ND	11
04-036PS	113	14	ND	ND	ND	127
03-037PS	135	90	ND	ND	ND	225
04-038PS	ND	ND	ND	ND	ND	ND
04-002PZ	ND	281	ND	ND	ND	281
04-003PZ 5X	ND	26,100	7,640	101,000	3,230	138,000
04-004PZ	ND	2	1	28	ND	31
04-001MW	9	10	ND	4	ND	23
04-002MW	ND	4	ND	ND	ND	4
04-003MW 5X	178,000	52,500	6,600	65,000	ND	302,000
04-004MW	ND	ND	ND	ND	ND	ND
04-005MW	ND	3	ND	ND	ND	3

GC – Gas Chromatograph.
ppb – parts per billion.
PS – Push Sample.
PZ – Piezometer.
MW – Monitoring Well.
BTEX – Benzene, Toluene, Ethylbenzene, and Xylenes.
ND – Non-Detect.
2X, 5X, and 20X – Dilution Factors.

Table B.3
Field PID Results – Soil
General Billy Mitchell Field ANGB, Milwaukee, Wisconsin

Boring	Sample Interval (ft. BLS)	PID Reading* (ppm)	
		Upon Sample Retrieval	Ambient Temperature Headspace Analysis
04-001PS	0.0 - 1.0	0	▲
	1.0 - 3.0	0	▲
	5.0 - 7.0	0	▲
04-002PS	0.0 - 1.0	0	0
	1.0 - 3.0	0	0
	5.0 - 7.0	1.8	0
04-003PS	1.0 - 2.0	138	8.9
	5.0 - 7.0	28.3	26.1
04-004PS	0.0 - 1.0	3.0	▲
	1.0 - 3.0	12.8	▲
	3.0 - 4.0	▲	▲
04-005PS	1.0 - 2.0	0	▲
	1.0 - 3.0	0	0
	5.0 - 7.0	0	0
04-006PS	1.0 - 2.0	▲	▲
	1.0 - 3.0	0	0
	5.0 - 7.0	0	0
04-007PS	1.0 - 3.0	0	0
	5.0 - 7.0	0	0
	7.0 - 9.0	0	0
04-008PS	0.0 - 1.0	2.1	▲
	1.0 - 3.0	3.8	1.3
	5.0 - 7.0	6.0	0.8
	8.0 - 10.0	13.3	74.2
04-009PS	0.0 - 1.0	0	0
	1.0 - 2.0	0	240
	3.0 - 5.0	3.5	▲
	5.0 - 7.0	60.1	3,032

Table B.3 (Continued)
Field PID Results – Soil
General Billy Mitchell Field ANGB, Milwaukee, Wisconsin

Boring	Sample Interval (ft. BLS)	PID Reading* (ppm)	
		Upon Sample Retrieval	Ambient Temperature Headspace Analysis
04-010PS	0.0 - 1.0	0.5	▲
	1.0 - 3.0	6.1	0.3
	3.0 - 5.0	1.3	0.4
	5.0 - 7.0	1.3	3.0
	8.0 - 10.0	1.8	3.6
04-011PS	0.0 - 1.0	▲	▲
	1.0 - 3.0	2.4	▲
	5.0 - 7.0	2.8	▲
04-012PS	0.0 - 1.0	2.6	▲
	1.0 - 3.0	3.2	▲
	5.0 - 7.0	2.0	▲
04-013PS	0.0 - 1.0	▲	▲
	1.0 - 5.0	3.4	▲
	5.0 - 7.0	2.9	▲
04-014PS	0.0 - 1.0	0	▲
	1.0 - 3.0	0	0
	7.0 - 9.0	617	283
04-015PS	0.0 - 1.0	0	▲
	1.0 - 3.0	18.7	▲
	3.0 - 5.0	▲	▲
04-016PS	0.0 - 1.0	0.2	▲
	1.0 - 3.0	47.3	▲
04-017PS	0.0 - 0.5	0	▲
	1.0 - 3.0	0	0
	3.0 - 5.0	0	0
	5.0 - 7.0	▲	▲

Table B.3 (Continued)
Field PID Results – Soil
General Billy Mitchell Field ANGB, Milwaukee, Wisconsin

Boring	Sample Interval (ft. BLS)	PID Reading* (ppm)	
		Upon Sample Retrieval	Ambient Temperature Headspace Analysis
04-026PS	0.0 - 1.0	0	▲
	1.0 - 3.0	0	0
	5.0 - 7.0	0	0
04-027PS	0.0 - 1.0	0.8	0
	1.0 - 3.0	0	0.3
	5.0 - 7.0	0	0
04-028PS	0.0 - 1.0	2.3	▲
	1.0 - 3.0	143	132
	5.0 - 7.0	1,797	1,725
04-029PS	0.0 - 1.0	0	▲
	1.0 - 2.5	0	1.6
	5.0 - 7.0	0.6	0.8
04-030PS	0.0 - 1.5	2.3	▲
	1.5 - 3.0	1.3	1.7
	5.0 - 5.5	2.6	3.8
04-031PS	0.0 - 1.0	5.9	▲
	1.0 - 3.0	9.7	▲
	5.0 - 7.0	5.1	▲
04-032PS	0.0 - 1.0	0.7	▲
	1.0 - 3.0	13.4	▲
	5.0 - 7.0	▲	▲
04-033PS	0.0 - 1.0	0	▲
	1.0 - 3.0	0	0
	3.0 - 5.0	0.2	0
	5.0 - 7.0	▲	▲

Table B.3 (Continued)
Field PID Results – Soil
General Billy Mitchell Field ANGB, Milwaukee, Wisconsin

Boring	Sample Interval (ft. BLS)	PID Reading* (ppm)	
		Upon Sample Retrieval	Ambient Temperature Headspace Analysis
04-018PS	0.0 - 1.0	1.3	▲
	1.0 - 3.0	3.2	▲
	5.0 - 7.0	872	▲
04-019PS	0.0 - 1.0	1.6	0.6
	1.0 - 3.0	13.2	▲
	5.0 - 7.0	1.6	0.5
04-020PS	0.0 - 1.0	1.0	0
	1.0 - 3.0	18.2	42.3
	5.0 - 7.0	229	780
04-021PS	0.0 - 1.0	1.5	▲
	1.0 - 3.0	0	0
	5.0 - 7.0	0	0
04-022PS	0.0 - 1.0	0	▲
	1.0 - 3.0	0	0
	5.0 - 7.0	0	0
04-023PS	0.0 - 1.0	0	▲
	1.0 - 3.0	3.0	0
	3.0 - 5.0	1.2	0
	5.0 - 7.0	0	0
04-024PS	0.0 - 1.0	5.9	▲
	1.0 - 3.0	9.7	▲
	3.0 - 5.0	5.1	▲
04-025PS	1.0 - 3.0	0	▲
	3.0 - 5.0	0	0
	5.0 - 7.0	0	0
	10.0 - 12.0	0	0

Table B.3 (Concluded)
Field PID Results – Soil
General Billy Mitchell Field ANGB, Milwaukee, Wisconsin

Boring	Sample Interval (ft. BLS)	PID Reading* (ppm)	
		Upon Sample Retrieval	Ambient Temperature Headspace Analysis
04-034PS	0.0 - 1.0	0	▲
	1.0 - 3.0	0	0
	3.0 - 5.0	0	0
	5.0 - 7.0	0	0
04-035PS	0.0 - 1.5	0	▲
	1.5 - 3.0	0	0
	5.0 - 7.0	0	0
04-036PS	0.0 - 1.0	0	▲
	1.0 - 3.0	0	0
04-037PS	0.0 - 1.0	0	▲
	1.0 - 3.0	0	▲
	5.0 - 7.0	0	▲
04-038PS	0.0 - 0.5	0	▲
	1.0 - 3.0	0	0
	5.0 - 7.0	0	0
	10.0 - 12.0	0	0

GC – Gas Chromatograph.
ft. BLS – feet Below Land Surface.
ppb – parts per billion.
PS - Push sample.
▲ - Analysis not taken.

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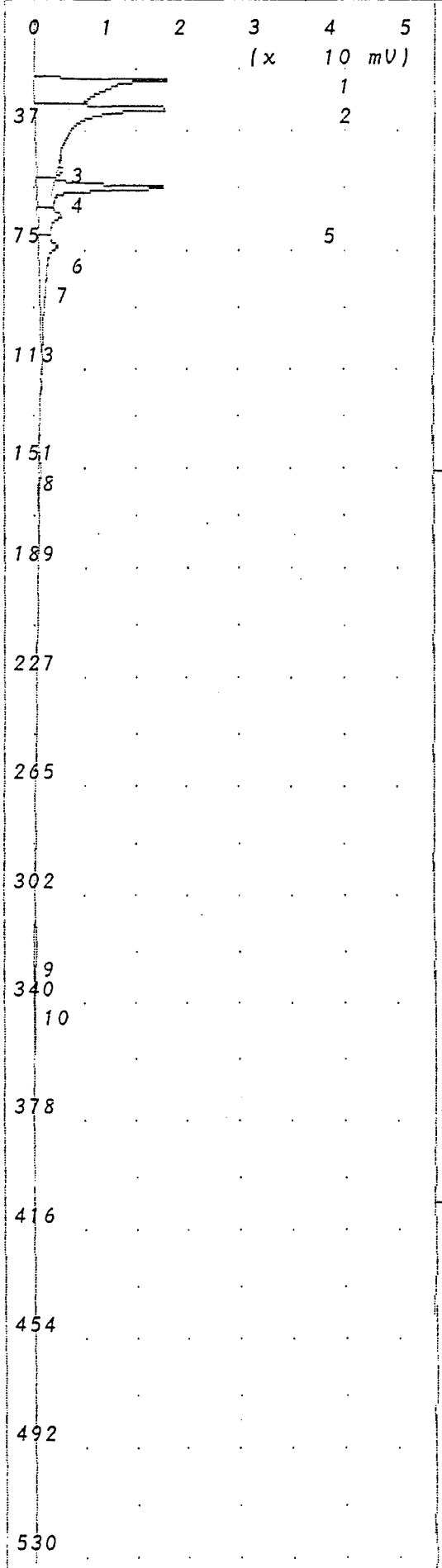
Analysis #5 10S+ GC Function Analysis Report



Time Printed: Oct 24,94 16:27
Sample Time: Oct 24,94 16:18

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	32	C
Max Gain	1000	
Analysis Time	530.0	sec

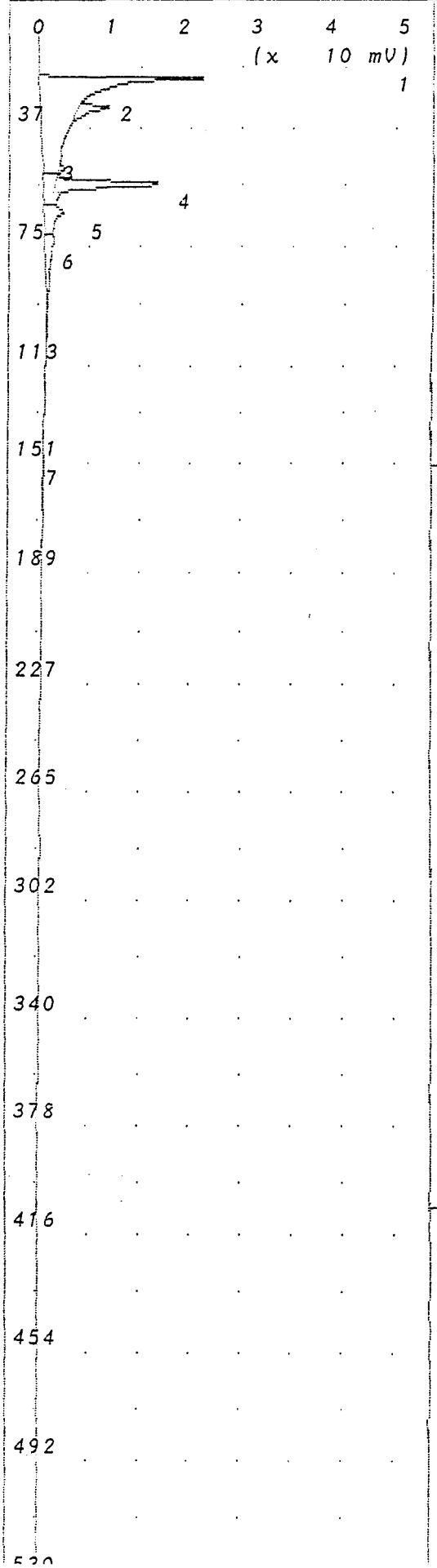
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	88.68	mVS	19.1
2	Unknown	135.7	mVS	28.1
3	Unknown	0.463	mVS	43.8
4	Unknown	1.642	mVS	48.2
5	Unknown	58.80	mVS	53.5
6	Unknown	20.60	mVS	62.6
7	Benzene	10.17	ppb	72.0
8	Toluene	0.969	ppb	149.8
9	Ethylbenzene	1.813	ppb	316.8
10	MP Xylene	3.425	ppb	343.3

Notes

Mark Escobar
Billy Mitchell Air National Guard Base
04-001PS-GW

Analysis #8 10S+ GC Function Analysis Report



Time Printed: Oct 21,94 11:22
Sample Time: Oct 21,94 11:13

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	32	C
Max Gain	1000	
Analysis Time	530.0	sec

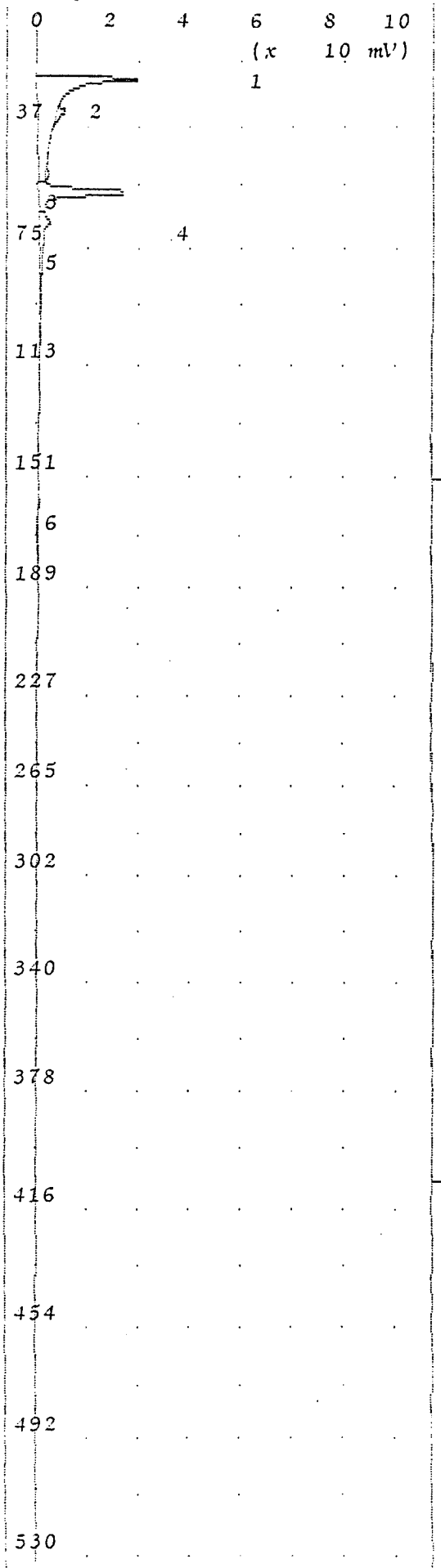
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	175.9	mVS	19.1
2	Unknown	10.62	mVS	28.6
3	Unknown	1.420	mVS	48.0
4	Unknown	54.57	mVS	53.5
5	Unknown	17.64	mVS	62.3
6	Benzene	34.16	ppb	71.6
7	Toluene	3.215	ppb	149.4

Notes

Mark Escobar
Billy Mitchell Air National Guard Base
04-002PS GW

Analysis #17 10S+ GC Function Analysis Report



Time Printed: Oct 20,94 16:56
Sample Time: Oct 20,94 16:47

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	15	ml/min
B/F Flow	15	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

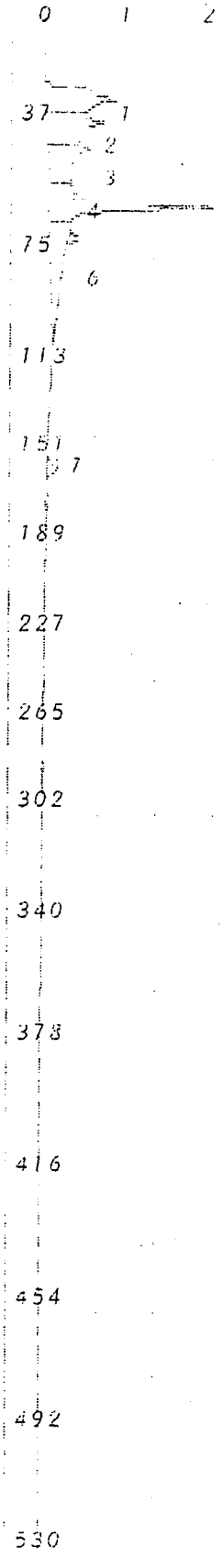
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	202.9	mVS	20.1
2	Unknown	6.149	mVS	30.4
3	Unknown	1.923	mVS	50.7
4	Unknown	69.11	mVS	55.4
5	Unknown	33.66	mVS	65.4
6	Toluene	3.603	ppb	157.4

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
04-003PS GW

Analysis #27 10S+ GC Function Analysis Report



Time Printed: Nov 2,94 15:43
Sample Time: Nov 2,94 15:34

Method

Slope Up	3.000	mV/Sec
Slope Down	3.000	mV/Sec
Min Area	1.000	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

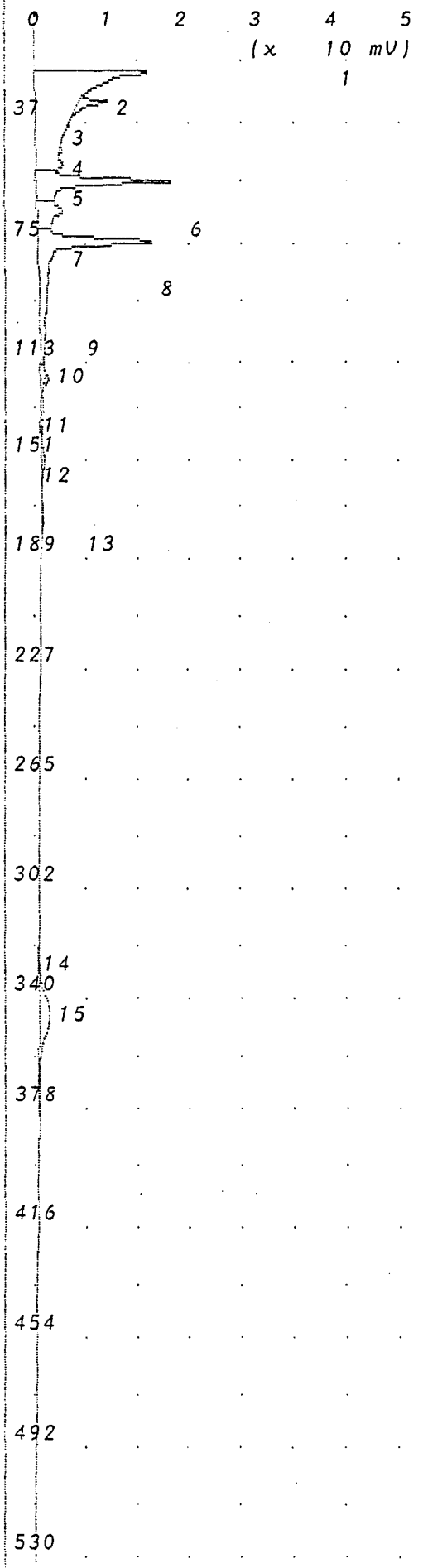
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	49.21	mVS	27.0
2	Unknown	48.74	mVS	33.4
3	Unknown	37.81	mVS	41.3
4	Unknown	12.41	mVS	53.5
5	Unknown	96.54	mVS	57.6
6	Benzene	1.549	ppb	66.8
7	Toluene	7.598	ppb	152.4

Notes

Billy Mitchell Air National
Guard Station
Mark Escobar
04-004PS GW

Analysis #6 TOST GC Function Analysis Report



Time Printed: Oct 24,94 16:39
Sample Time: Oct 24,94 16:30

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	32	C
Max Gain	1000	
Analysis Time	530.0	sec

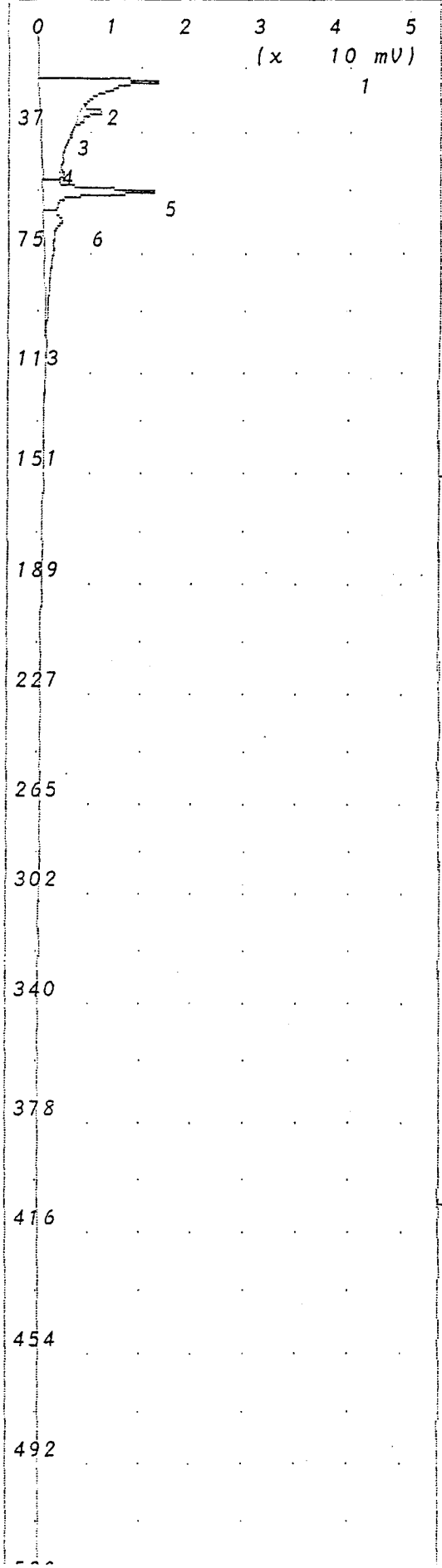
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	191.2	mVS	19.4
2	Unknown	8.233	mVS	28.7
3	Unknown	0.319	mVS	36.5
4	Unknown	0.473	mVS	43.8
5	Unknown	1.549	mVS	48.5
6	Unknown	59.78	mVS	53.8
7	Unknown	21.86	mVS	62.8
8	Benzene	26.70	ppb	72.5
9	Unknown	0.395	mVS	101.6
10	Unknown	9.665	mVS	116.6
11	Unknown	3.956	mVS	129.7
12	Toluene	2.503	ppb	149.8
13	Unknown	0.939	mVS	178.8
14	Ethylbenzene	0.755	ppb	318.1
15	MP Xylene	25.55	ppb	339.3

Notes

Mark Escobar
Billy Mitchell Air National Guard Base
04-005PS-GW

Analysis #20 10S+ GC Function Analysis Report



Time Printed: Oct 21,94 16:32
Sample Time: Oct 21,94 16:23

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	30	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	174.4 mVS	19.6
2	Unknown	7.695 mVS	29.0
3	Unknown	0.392 mVS	36.6
4	Unknown	1.141 mVS	48.5
5	Unknown	48.74 mVS	54.0
6	Unknown	38.74 mVS	63.0

Notes

Mark Escobar
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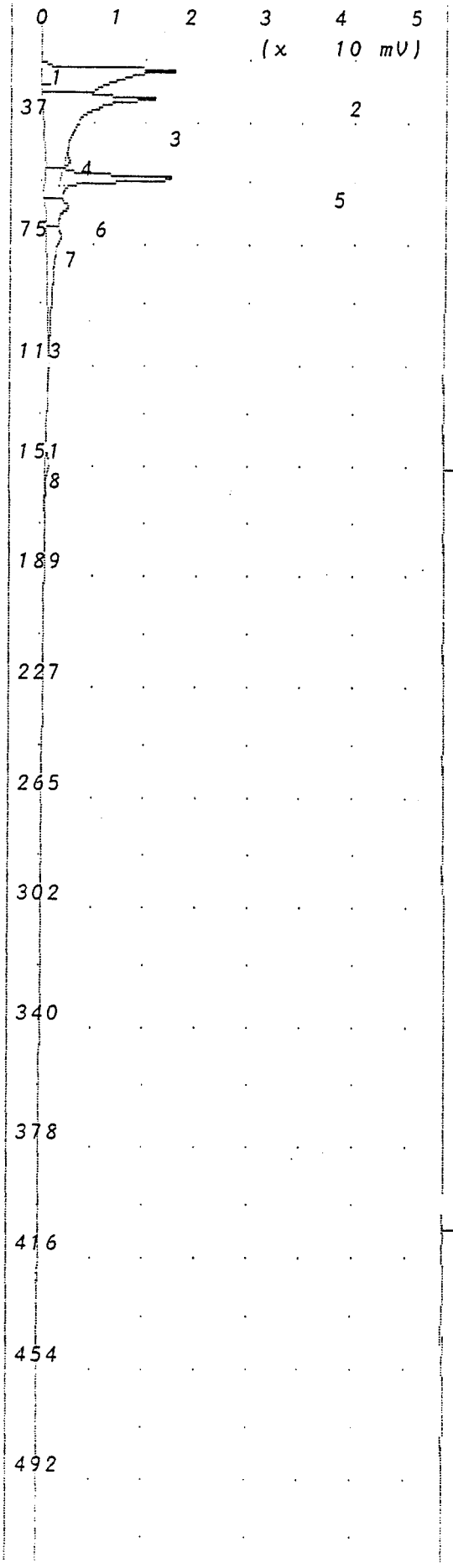
04-006PS GW

Analysis #6 10S+ GC Function Analysis Report



Time Printed: Oct 25,94 11:53
Sample Time: Oct 25,94 11:44

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

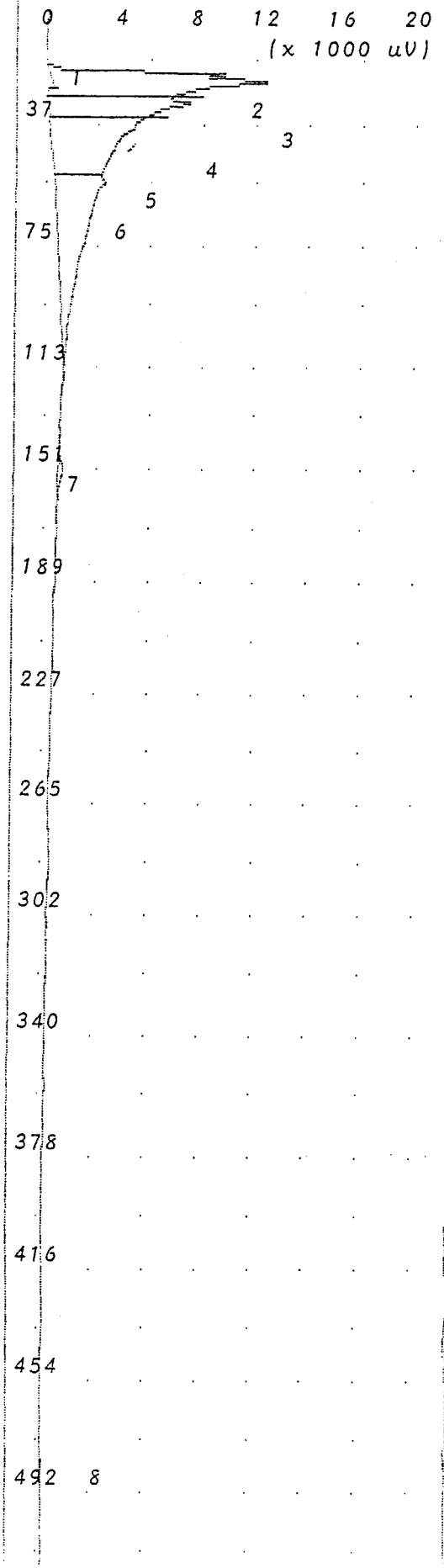
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	1.713	mVS	17.3
2	Unknown	94.16	mVS	18.6
3	Unknown	123.8	mVS	28.0
4	Unknown	1.470	mVS	47.5
5	Unknown	61.42	mVS	52.7
6	Unknown	20.16	mVS	61.6
7	Benzene	11.55	ppb	71.2
8	Toluene	2.018	ppb	148.4

Notes

Mark Escobar
Billy Mitchell Air National Guard Base
04-007PS GW

Analysis #14 10S+ GC Function Analysis Report



Time Printed: Oct 29,94 11:08
Sample Time: Oct 29,94 10:59

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

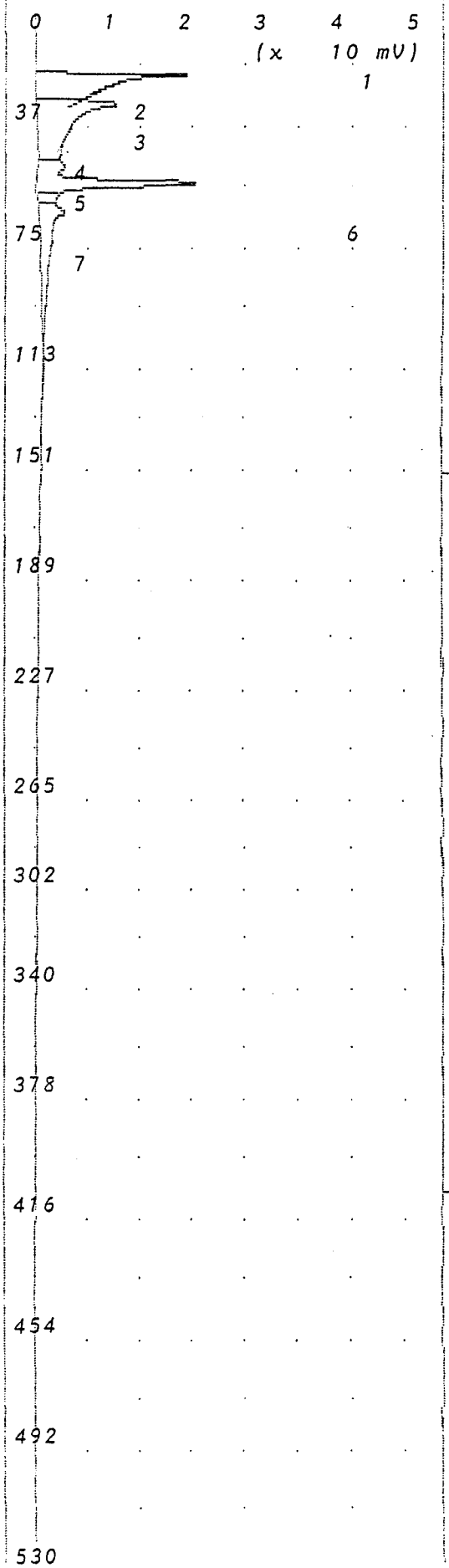
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	0.797 mVS	18.2
2	Unknown	15.78 mVS	19.8
3	Unknown	58.99 mVS	22.5
4	Unknown	102.7 mVS	28.8
5	Unknown	0.196 mVS	36.5
6	Unknown	65.90 mVS	53.8
7	Toluene	2.791 ppb	149.4
8	Unknown	1.632 mVS	477.2

Notes

Billy Mitchell Air National Guard Base

Mark Escobar
04-008PS GW

Analysis #7 10S+ GC Function Analysis Report



Time Printed: Oct 25,94 12:05
Sample Time: Oct 25,94 11:56

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

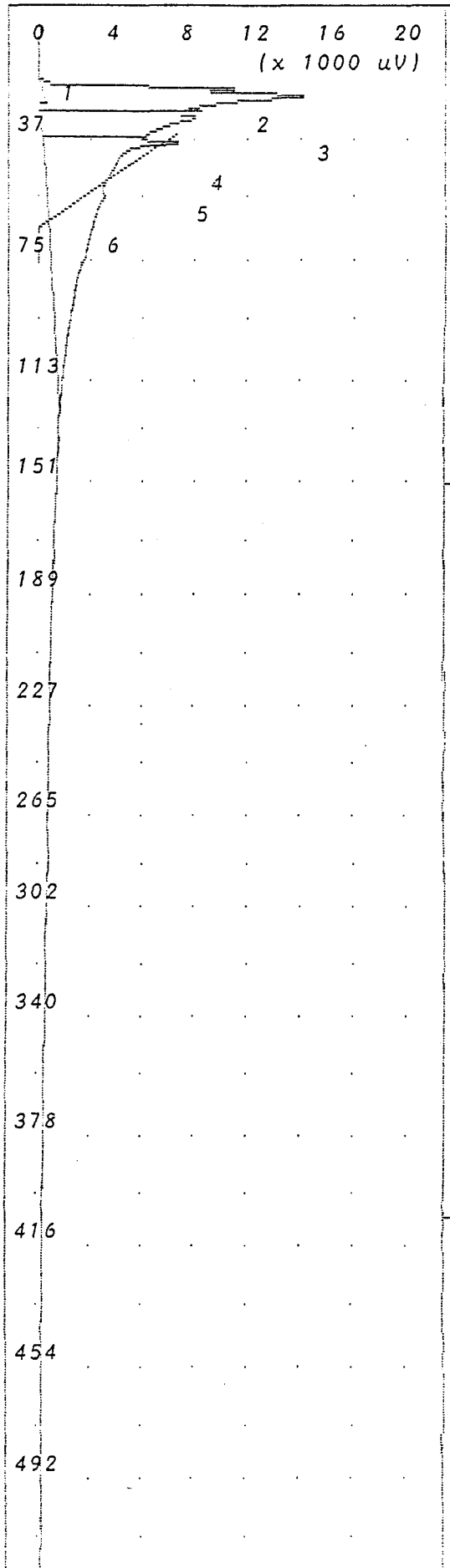
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	90.71	mVS	19.0
2	Unknown	0.549	mVS	21.8
3	Unknown	98.46	mVS	28.3
4	Unknown	0.351	mVS	35.9
5	Unknown	13.56	mVS	47.7
6	Unknown	70.52	mVS	52.5
7	Unknown	53.32	mVS	62.0

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
04-009PS GW

Analysis #15 10S+ GC Function Analysis Report



Time Printed: Oct 29,94 11:19
Sample Time: Oct 29,94 11:11

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

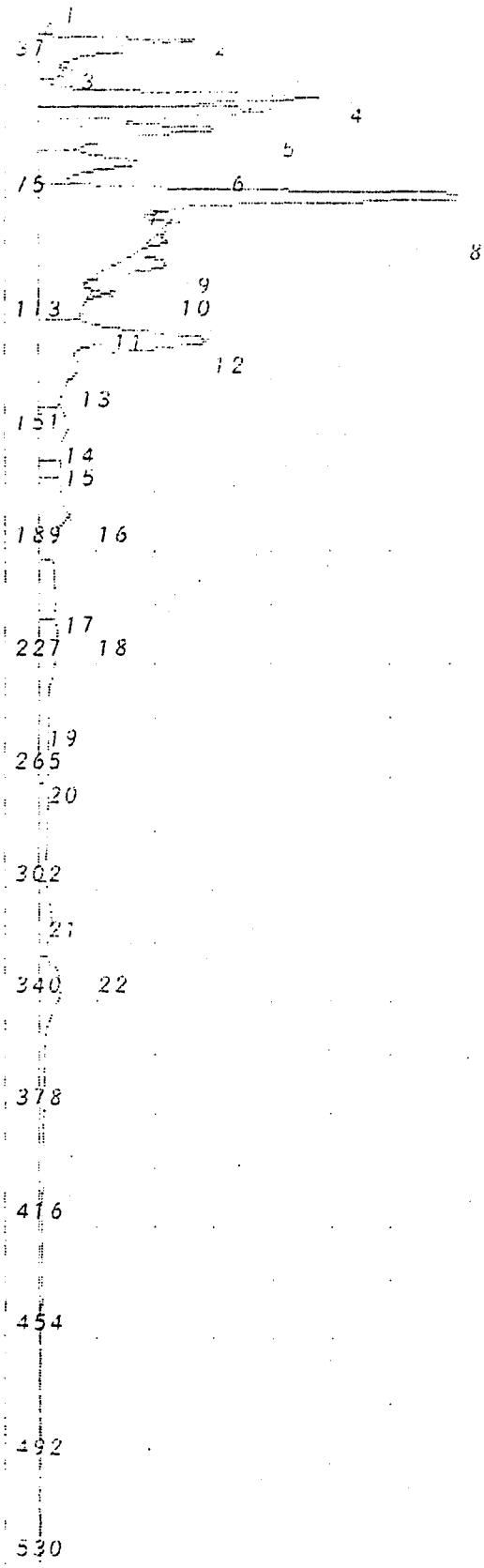
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	0.600	mVS	18.4
2	Unknown	16.82	mVS	19.7
3	Unknown	121.7	mVS	22.5
4	Unknown	3.646	mVS	28.9
5	Unknown	161.1	mVS	36.8
6	Unknown	0.605	mVS	53.9

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-010PS GW

Analysis #16 10S+ GC Function Analysis Report



Time Printed: Nov 2,94 11:43
Sample Time: Nov 2,94 11:29

Method

Slope Up	3.000	mV/Sec
Slope Down	3.000	mV/Sec
Min Area	1.000	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	214.3	mVS	19.2
2	Unknown	1.730	VSec	28.6
3	Unknown	45.52	mVS	37.3
4	Unknown	2.529	VSec	44.6
5	Unknown	1.616	VSec	48.4
6	Unknown	2.065	VSec	53.6
7	Unknown	1.337	VSec	62.6
8	Benzene	5.963	ppm	72.1
9	Unknown	181.9	mVS	80.6
10	Unknown	474.1	mVS	91.0
11	Unknown	182.8	mVS	100.8
12	Unknown	4.077	VSec	115.4
13	Unknown	43.72	mVS	125.8
14	Toluene	468.3	ppb	145.6
15	Unknown	433.8	mVS	157.2
16	Unknown	1.406	VSec	175.0
17	Unknown	760.6	mVS	202.8
18	Unknown	1.089	VSec	214.6
19	Unknown	567.1	mVS	249.0
20	Unknown	689.9	mVS	267.7
21	Ethylbenzene	332.2	ppb	309.3
22	MP Xylene	2.794	ppm	333.8

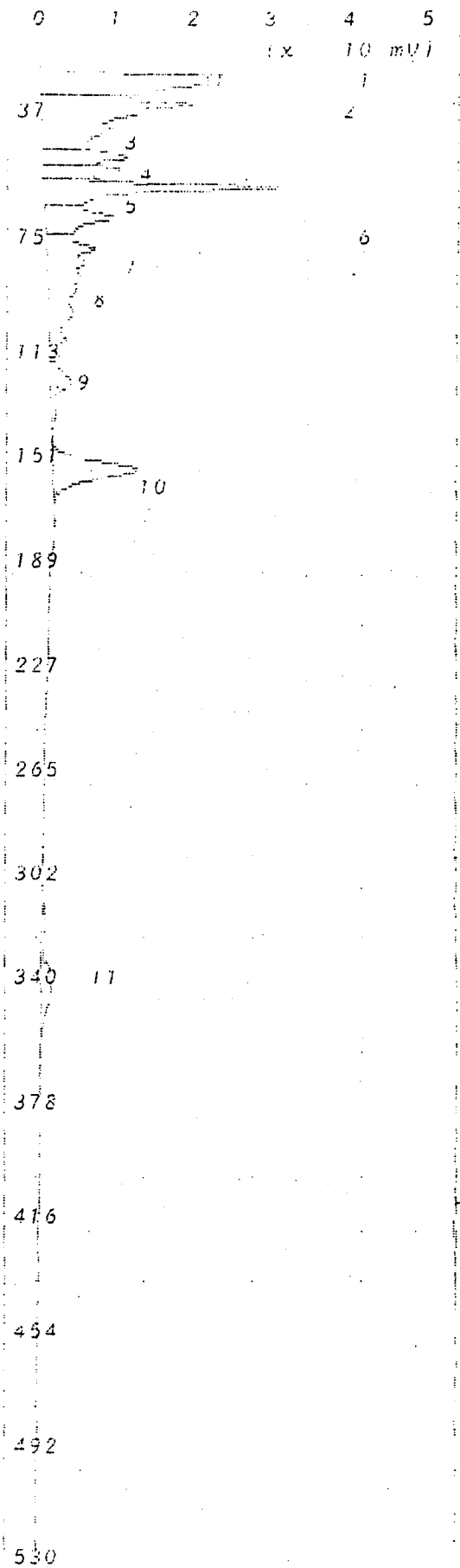
Notes

Billy Mitchell Air National Guard Station

Mark Escobar
04-012PS GW

2X Dilution

Analysis #19 10S+ GC Function Analysis Report



Time Printed: Nov 2,94 12:28
Sample Time: Nov 2,94 12:19

Method

Slope Up	3.000	mV/Sec
Slope Down	3.000	mV/Sec
Min Area	1.000	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
H/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	30	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

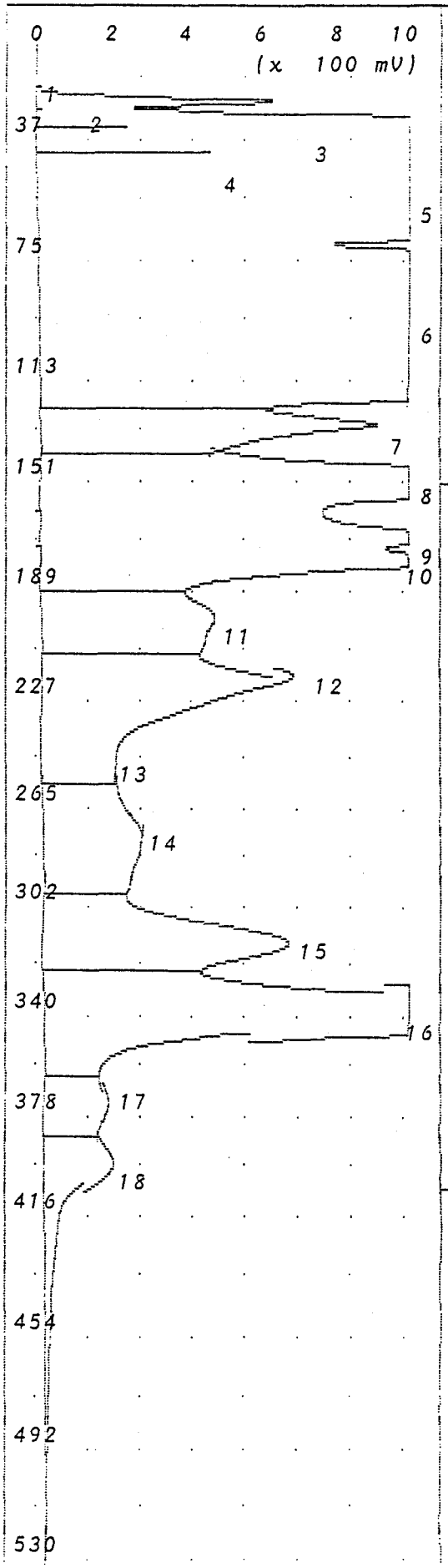
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	144.9 mVS	19.6
2	Unknown	161.9 mVS	28.6
3	Unknown	3.933 mVS	36.8
4	Unknown	43.86 mVS	44.7
5	Unknown	34.44 mVS	48.8
6	Unknown	104.7 mVS	52.9
7	Unknown	49.18 mVS	62.7
8	Benzene	67.46 ppb	72.0
9	Unknown	27.64 mVS	115.8
10	Toluene	66.50 ppb	148.8
11	MP Xylene	46.61 ppb	332.0

Notes

Billy Mitchell Air National
Guard Station
Mark Escobar
04-013PS GW

Analysis #10 10S+ GC Function Analysis Report



Time Printed: Nov 1,94 13:43
Sample Time: Nov 1,94 13:35

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

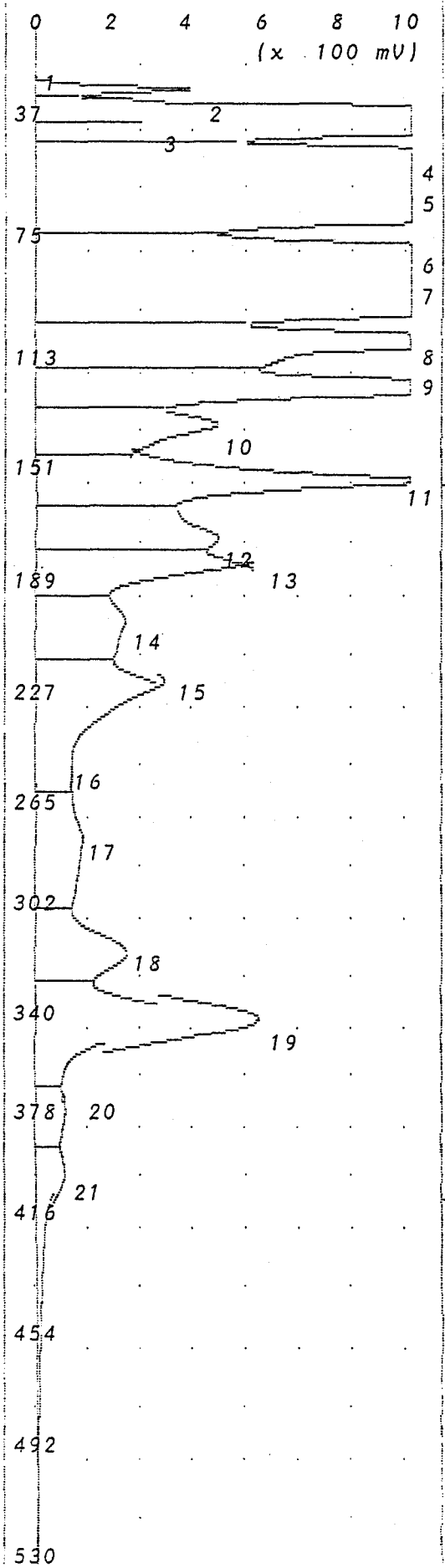
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	2.103	mVS	17.8
2	Unknown	23.95	mVS	19.4
3	Unknown	1.968	VSec	23.4
4	Unknown	589.4	mVS	26.8
5	Unknown	740.9	VSec	46.7
6	Unknown	491.7	VSec	95.0
7	Unknown	9.949	VSec	128.0
8	Toluene	12.37	ppm	149.2
9	Unknown	10.94	VSec	166.4
10	Unknown	13.78	VSec	170.6
11	Unknown	8.849	VSec	195.4
12	Unknown	17.45	VSec	216.4
13	Unknown	5.958	mVS	247.7
14	Unknown	10.99	VSec	271.4
15	Ethylbenzene	6.629	ppm	312.0
16	MP Xylene	83.49	ppm	335.2
17	Unknown	3.584	VSec	371.6
18	O Xylene	24.96	ppm	394.0

Notes

Billy Mitchell Air National
Guard Station
Mark Escobar
04-014PS GW
2X Dilution

Analysis #11 10S+ GC Function Analysis Report



Time Printed: Nov 1,94 13:55
Sample Time: Nov 1,94 13:46

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

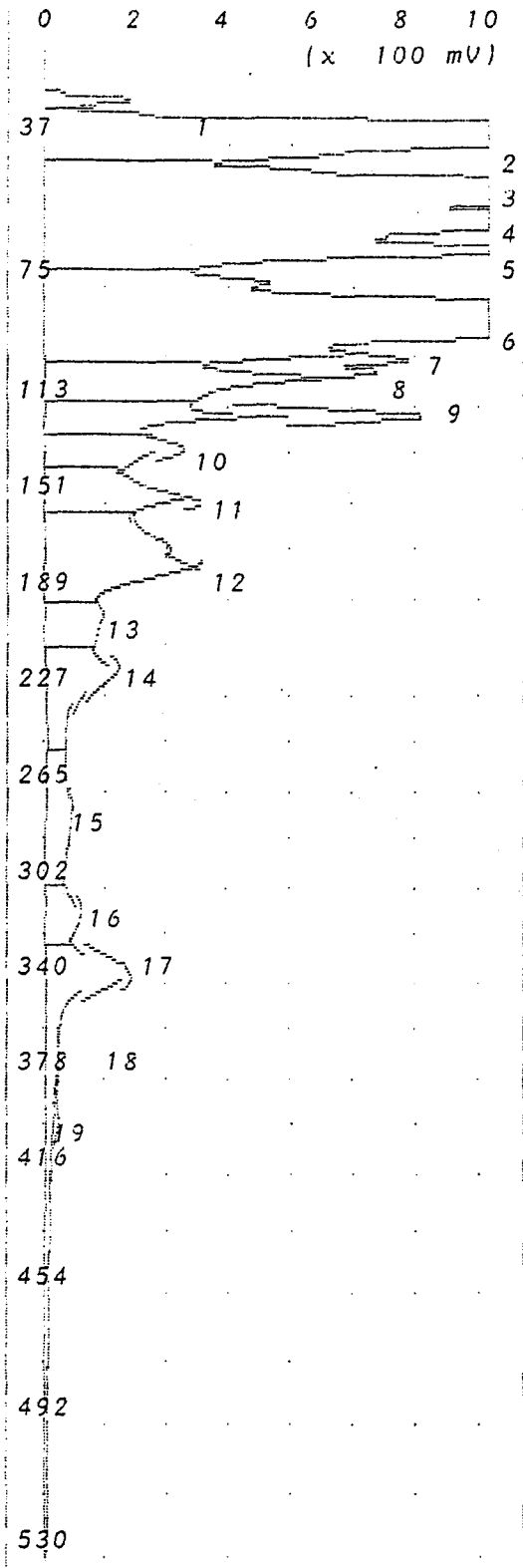
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	0.806	mVS	17.8
2	Unknown	1.156	VSec	23.2
3	Unknown	366.3	mVS	26.6
4	Unknown	60.72	VSec	32.6
5	Unknown	121.9	VSec	52.9
6	Benzene	1.322	ppm	72.0
7	Unknown	25.01	VSec	82.2
8	Unknown	15.75	VSec	101.3
9	Unknown	13.21	VSec	115.7
10	Unknown	5.724	VSec	127.4
11	Toluene	5.217	ppm	148.6
12	Unknown	5.873	VSec	166.0
13	Unknown	7.337	VSec	175.6
14	Unknown	4.507	VSec	194.6
15	Unknown	8.490	VSec	216.2
16	Unknown	2.417	mVS	246.1
17	Unknown	5.112	VSec	270.6
18	Ethylbenzene	1.980	ppm	311.4
19	MP Xylene	22.80	ppm	335.2
20	Unknown	1.647	VSec	371.0
21	O Xylene	10.93	ppm	393.0

Notes

Billy Mitchell Air National
Guard Station
Mark Escobar
04-014PS GW
5X Dilution

Analysis #23 10S+ GC Function Analysis Report



Time Printed: Nov 1,94 16:32
Sample Time: Nov 1,94 16:23

Method

Slope Up	3.000	mV/Sec
Slope Down	3.000	mV/Sec
Min Area	1.000	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	35	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	576.0	mVS	23.2
2	Unknown	28.36	VSec	32.5
3	Unknown	16.84	VSec	47.8
4	Unknown	14.49	VSec	55.7
5	Unknown	7.293	VSec	63.2
6	Unknown	25.45	VSec	81.6
7	Unknown	3.845	VSec	92.5
8	Unknown	6.750	VSec	101.6
9	Unknown	7.420	VSec	116.6
10	Unknown	3.534	VSec	128.5
11	Toluene	1.910	ppm	149.2
12	Unknown	7.877	VSec	176.8
13	Unknown	1.913	VSec	195.4
14	Unknown	3.966	VSec	217.2
15	Unknown	2.788	VSec	271.7
16	Ethylbenzene	601.4	ppb	312.8
17	MP Xylene	14.50	ppm	333.3
18	Unknown	65.25	mVS	371.3
19	O Xylene	263.4	ppb	394.3

Notes

Billy Mitchell Air National
Guard Station

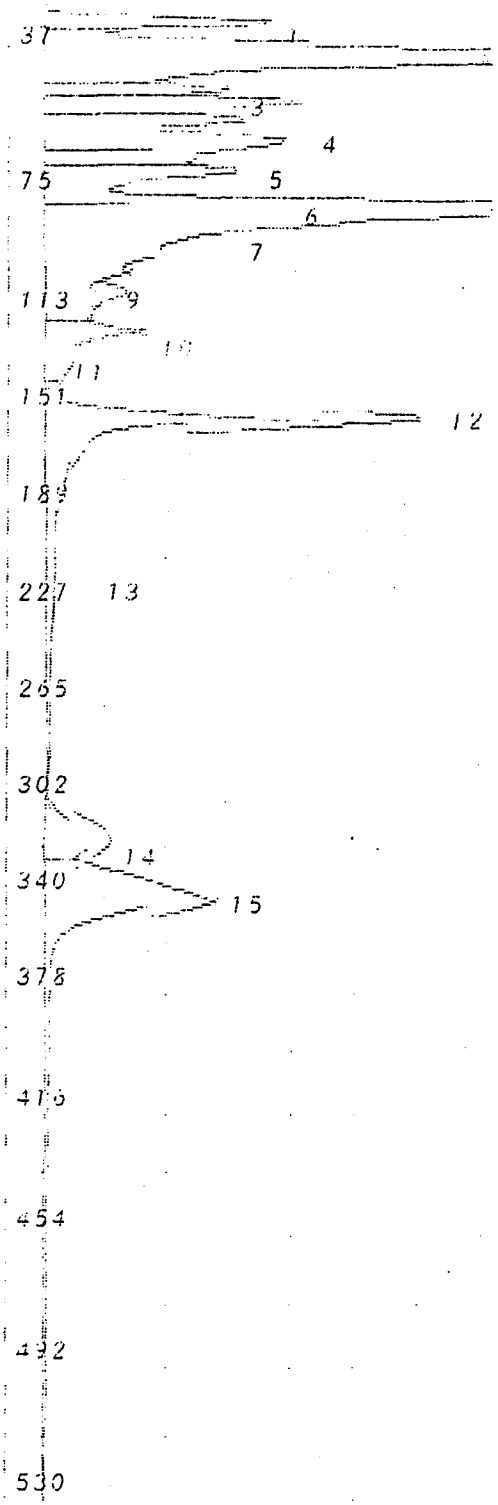
Mark Escobar
04-015PS GW

20X Dilution

Analysis #28 105° GC Function Analysis Report

0 2 4 6 8 10
1x 100 mV

Time Printed: Nov 2,94 15:55
Sample Time: Nov 2,94 15:40



Slope Up	3.000	mV/Sec
Slope Down	3.000	mV/Sec
Min Area	1.000	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	1.574	VSec	27.0
2	Unknown	9.195	VSec	35.8
3	Unknown	1.228	VSec	44.7
4	Unknown	2.061	VSec	48.3
5	Unknown	1.395	VSec	52.8
6	Unknown	4.169	VSec	58.0
7	Unknown	1.524	VSec	66.1
8	Benzene	13.64	ppm	76.1
9	Unknown	289.7	mVS	104.2
10	Unknown	2.736	VSec	119.4
11	Unknown	47.87	mVS	131.0
12	Toluene	5.931	ppm	153.0
13	Unknown	34.68	mVS	219.0
14	Ethylbenzene	1.872	ppm	316.2
15	MP Xylene	23.63	ppm	340.6

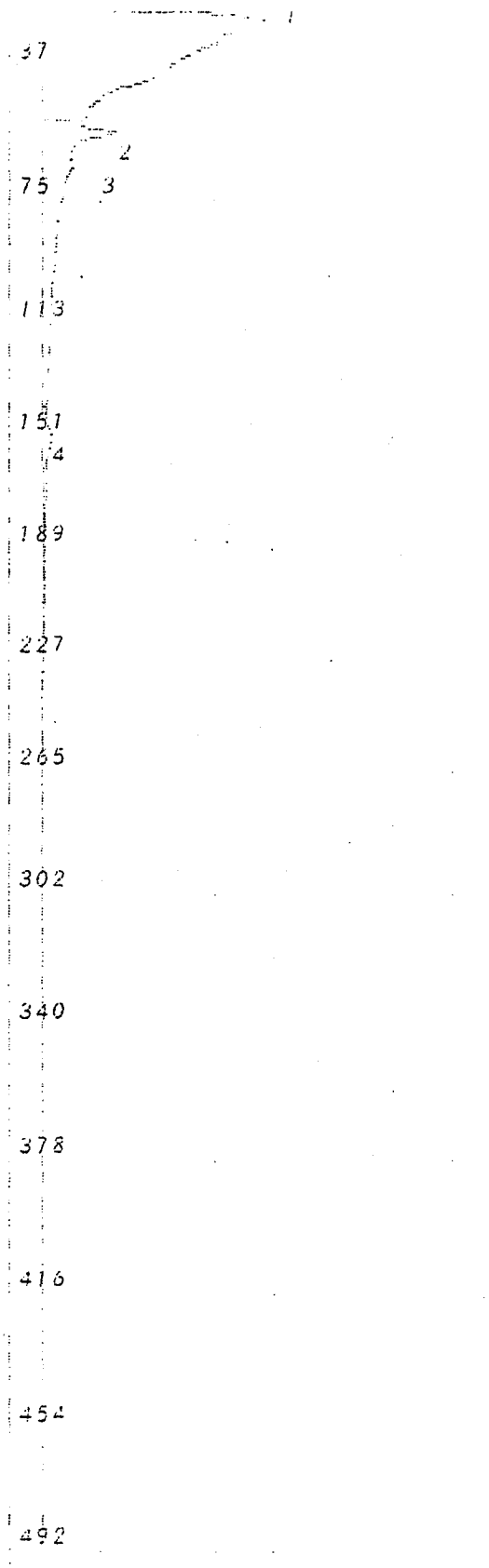
Notes

Billy Mitchell Air National Guard Station

Mark Escobar
04-016PS GW

2x Dilution

Analysis #21 103+ GC Function Analysis Report



Time Printed: Nov 2,94 14:23
Sample Time: Nov 2,94 14:14

Method

Slope up	3.000	mV/Sec
Slope Down	3.000	mV/Sec
Min Area	1.000	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	1.970	VSec	21.8
2	Unknown	687.3	mVS	54.0
3	Unknown	5.321	mVS	62.8
4	Toluene	18.95	ppb	149.2

Notes

Billy Mitchell Air National
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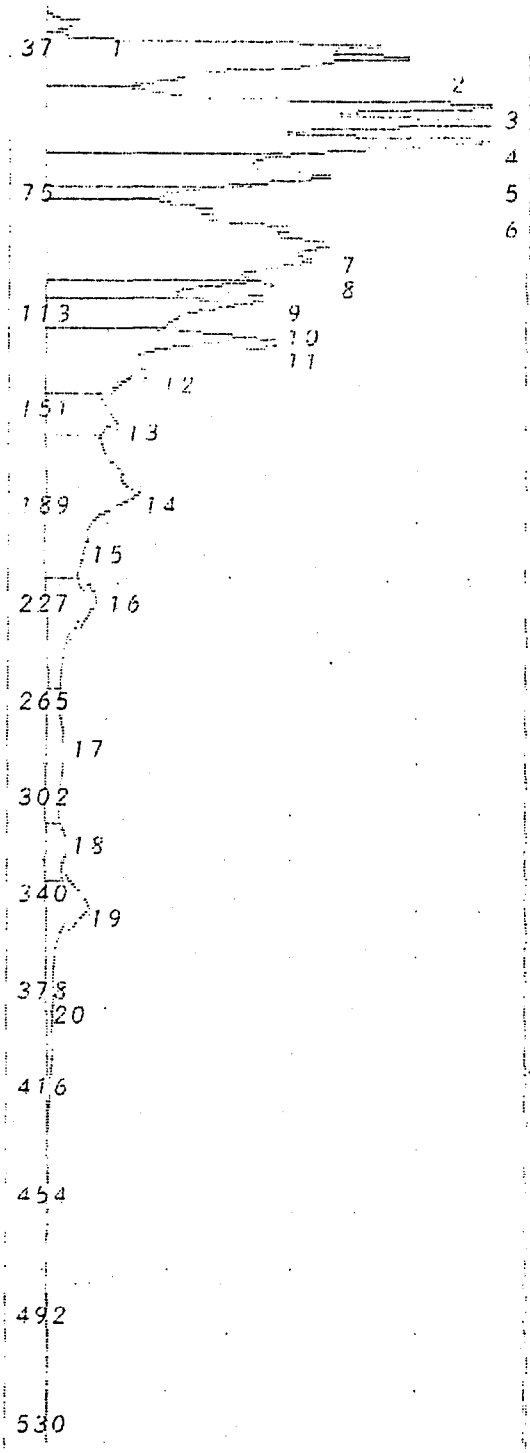
Mark Escobar
04-017PS GW

Analysis #20 10S+ GC Function Analysis Report



Time Printed: Nov 2.94 14:11
Sample Time: Nov 2.94 14:02

Method

Slope Up	3.000	mV/Sec
Slope Down	3.000	mV/Sec
Min Area	1.000	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	243.5	mVS	24.2
2	Unknown	6.653	VSec	33.2
3	Unknown	2.389	VSec	46.1
4	Unknown	2.400	VSec	46.8
5	Unknown	3.855	VSec	50.3
6	Unknown	5.925	VSec	55.3
7	Unknown	4.294	VSec	64.1
8	Unknown	10.61	VSec	82.1
9	Unknown	3.327	VSec	93.2
10	Unknown	4.282	VSec	102.4
11	Unknown	7.714	VSec	117.4
12	Unknown	174.9	mVS	129.0
13	Toluene	949.7	ppb	149.0
14	Unknown	6.494	VSec	177.8
15	Unknown	48.51	mVS	195.0
16	Unknown	2.941	VSec	218.6
17	Unknown	1.749	VSec	273.0
18	Ethylbenzene	439.0	ppb	314.6
19	MP Xylene	7.878	ppm	338.3
20	O Xylene	41.75	ppb	372.6

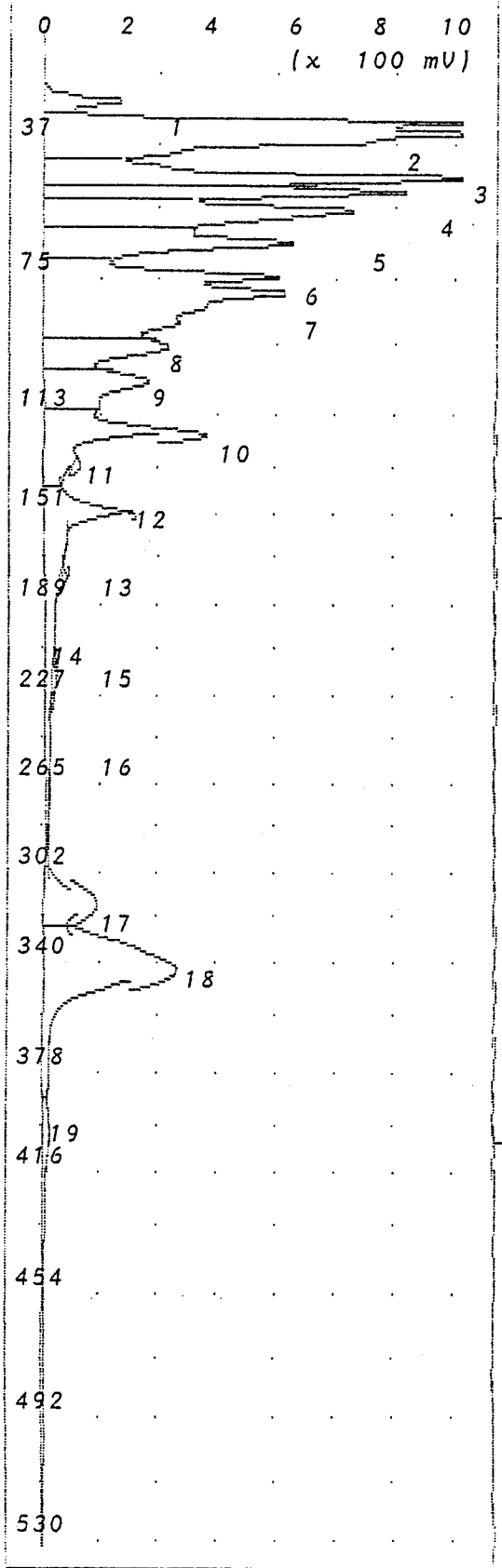
Notes

Billy Mitchell Air National Guard Station

Mark Escobar
04-018PS GW

20x Dilution

Analysis #7 10S+ GC Function Analysis Report



Time Printed: Oct 28,94 12:00
Sample Time: Oct 28,94 11:46

Method

Slope Up	0.500	mV/Sec
Slope Down	0.500	mV/Sec
Min Area	200.0	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

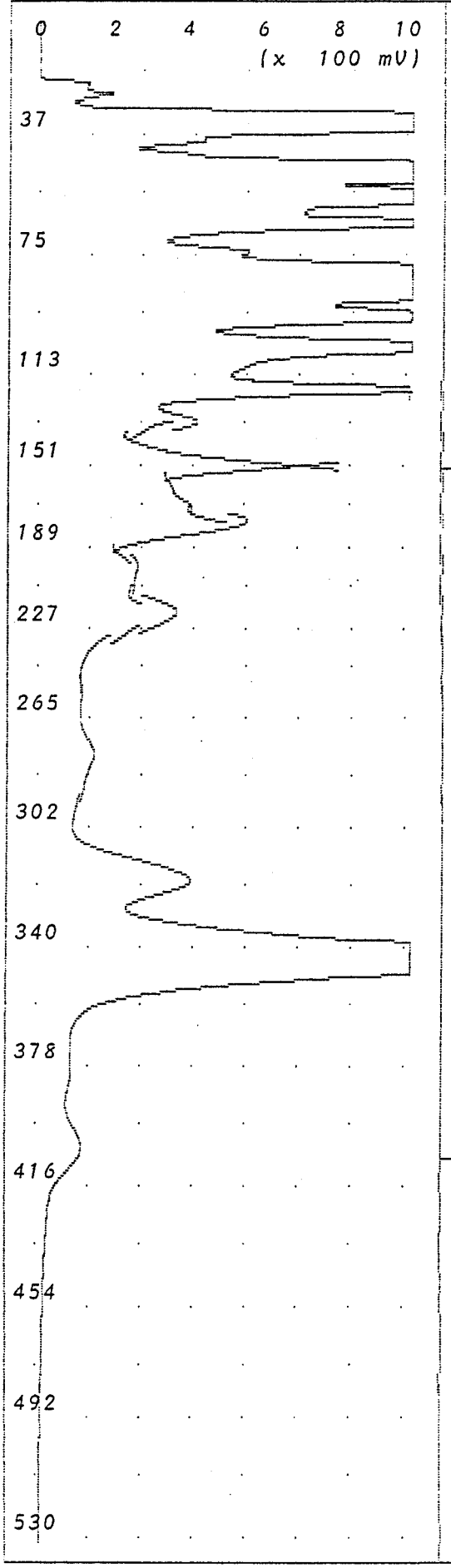
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	699.2	mVS	23.2
2	Unknown	10.56	VSec	30.2
3	Unknown	5.037	VSec	45.2
4	Unknown	2.562	VSec	49.2
5	Unknown	4.323	VSec	54.4
6	Unknown	3.337	VSec	63.2
7	Benzene	5.312	ppm	77.2
8	Unknown	1.838	VSec	92.2
9	Unknown	1.993	VSec	101.8
10	Unknown	4.012	VSec	117.2
11	Unknown	77.26	mVS	128.4
12	Toluene	4.113	ppm	150.0
13	Unknown	128.7	mVS	177.8
14	Unknown	27.31	mVS	206.0
15	Unknown	135.2	mVS	217.8
16	Unknown	50.69	mVS	253.3
17	Ethylbenzene	2.837	ppm	315.4
18	MP Xylene	19.93	ppm	340.6
19	O Xylene	6.997	ppm	400.3

Notes

Mark Escobar
Billy Mitchell Air
National Guard Base
04-019PS GW

Analysis #17 10S+ GC Function Analysis Report



Time Printed: Oct 27,94 15:15
Sample Time: Oct 27,94 15:06

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

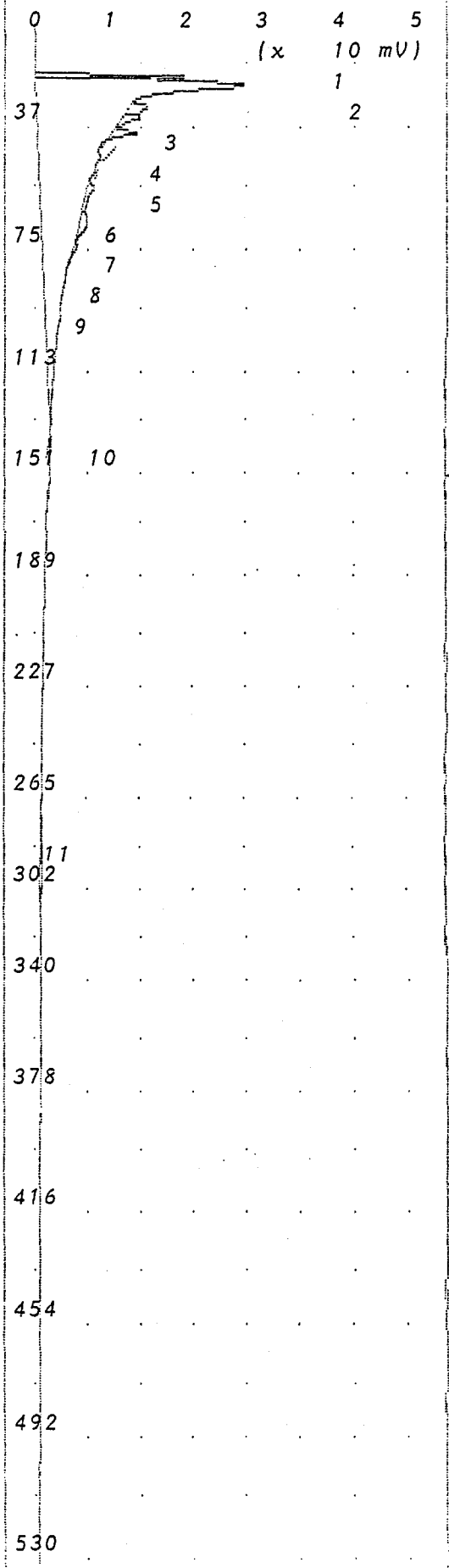
Peak Report

Pk	Compound Name	Area/Conc	R.T.

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
04-020PS GW

Analysis #19 10S+ GC Function Analysis Report



Time Printed: Oct 29,94 13:29
Sample Time: Oct 29,94 13:20

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	32	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

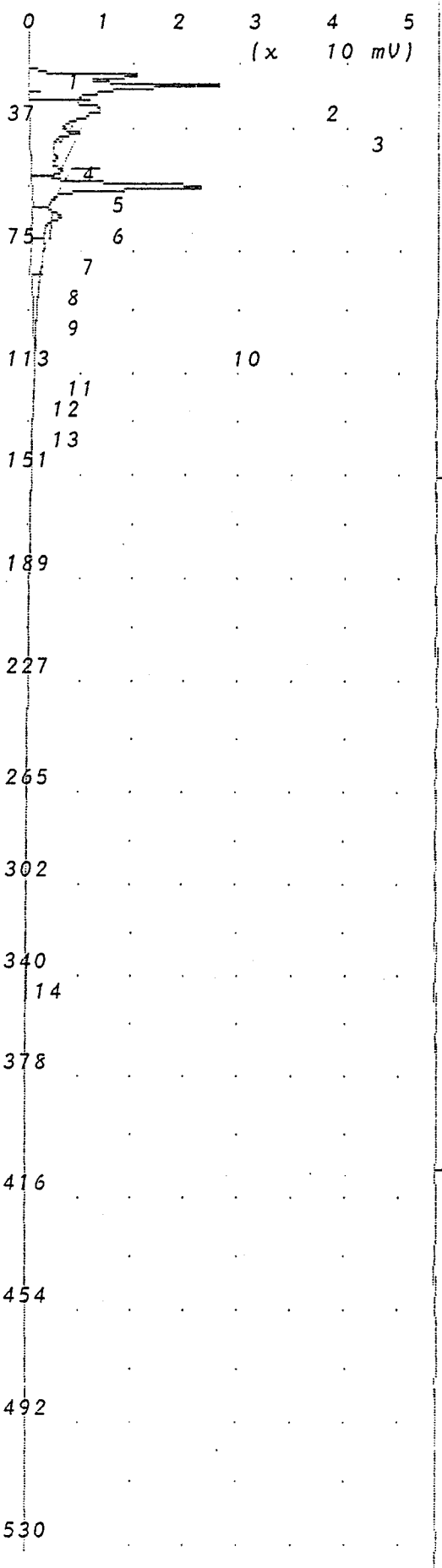
Pk	Compound Name	Area/Conc		R.T.
1	Unknown	30.70	mVS	19.8
2	Unknown	585.1	mVS	21.4
3	Unknown	7.054	mVS	29.0
4	Unknown	5.245	mVS	32.5
5	Unknown	6.462	mVS	37.2
6	Unknown	2.407	mVS	44.6
7	Unknown	4.585	mVS	54.2
8	Unknown	6.120	mVS	63.6
9	Benzene	0.784	ppb	72.5
10	Toluene	0.114	ppb	136.8
11	Ethylbenzene	3.945	ppb	286.6

Notes

Billy Mitchell Air National Guard Base

Mark Escobar
04-021PS GW

Analysis #6 10S+ GC Function Analysis Report



Time Printed: Oct 28,94 11:44
Sample Time: Oct 28,94 11:35

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	200.0	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	2.212	mVS	17.9
2	Unknown	27.58	mVS	19.4
3	Unknown	166.9	mVS	22.2
4	Unknown	0.182	mVS	26.8
5	Unknown	5.126	mVS	28.8
6	Unknown	10.65	mVS	30.0
7	Unknown	4.426	mVS	36.6
8	Unknown	1.313	mVS	44.5
9	Unknown	3.529	mVS	48.5
10	Unknown	72.76	mVS	53.7
11	Unknown	22.50	mVS	62.6
12	Unknown	7.035	mVS	71.8
13	Unknown	20.55	mVS	76.0
14	Unknown	4.964	mVS	339.0

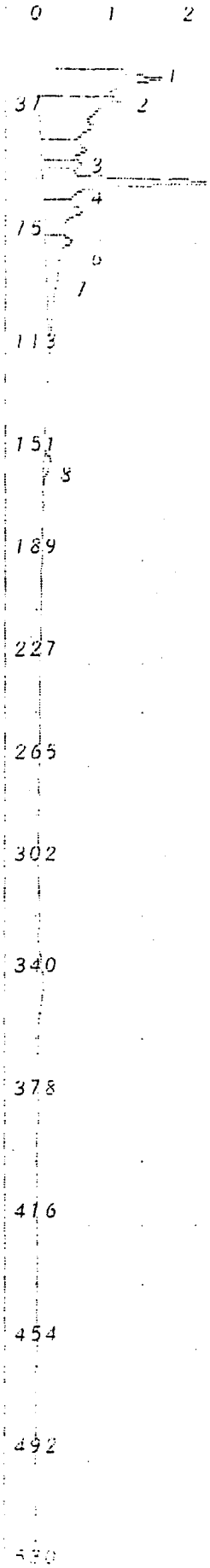
Notes

Mark Escobar

Billy Mitchell Air

National Guard Base
04-023PS GW

Analysis #30 10S+ GC Function Analysis Report



Time Printed: Nov 2,94 16:36
Sample Time: Nov 2,94 16:27

Method

Slope Up	3.000	mV/Sec
Slope Down	3.000	mV/Sec
Min Area	1.000	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

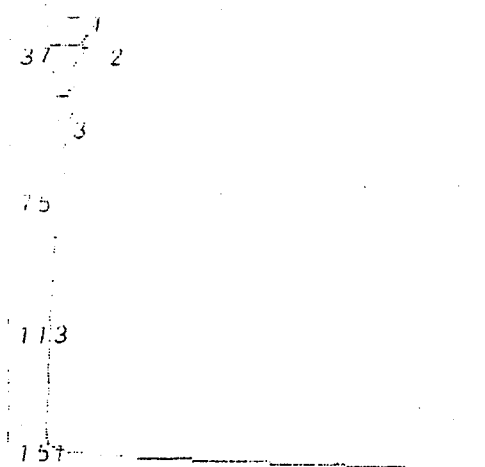
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	111.0 mVS	22.0
2	Unknown	102.2 mVS	29.2
3	Unknown	32.74 mVS	44.7
4	Unknown	15.13 mVS	49.3
5	Unknown	80.02 mVS	54.0
6	Unknown	39.50 mVS	63.5
7	Benzene	23.92 ppb	72.8
8	Toluene	4.780 ppb	149.0

Notes

Billy Mitchell Air National
Guard Station
Mark Escobar
04-024PS GW

Analysis #13 TDS- GC Function Analysis Report

Time Printed: Nov 4,04 14:44
Sample Time: Nov 4,04 14:44



Method		
Slope Up	2.000	mV/Sec
Slope Down	2.000	mV/Sec
Min Area	2.000	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

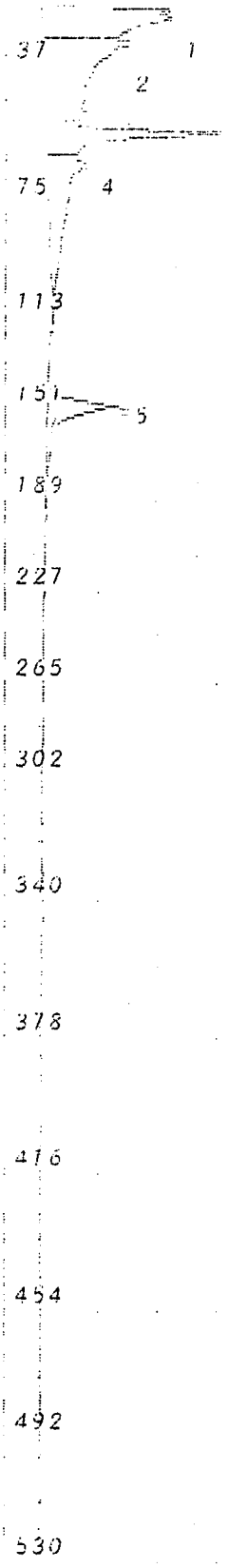
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	84.16 mVS	19.9
2	Unknown	69.59 mVS	28.8
3	Unknown	31.83 mVS	44.8
4	Toluene	248.1 ppb	149.6
5	Unknown	71.70 mVS	436.0

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-024PS GW

Analysis #31 TCSP GC Fairbanks Analysis Report



Time Printed: Nov 2,94 16:47
Sample Time: Nov 2,94 16:38

Method

Slope Up	3.000	mV/Sec
Slope Down	3.000	mV/Sec
Min Area	1.000	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

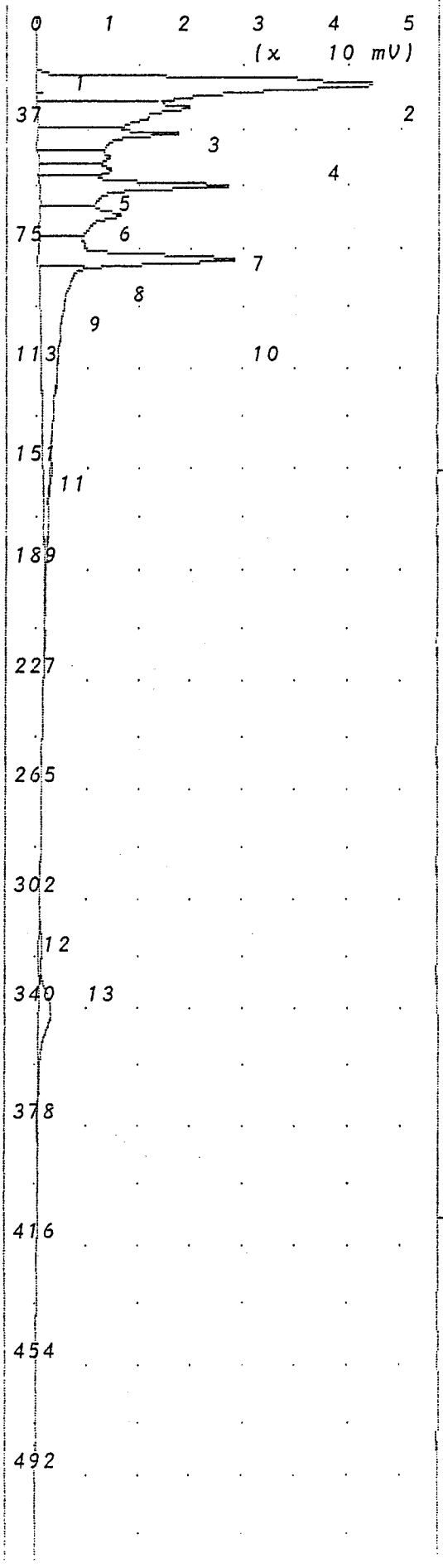
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	114.9	mVS	22.4
2	Unknown	137.3	mVS	29.0
3	Unknown	76.40	mVS	53.7
4	Unknown	80.78	mVS	63.0
5	Toluene	65.85	ppb	149.8

Notes

Billy Mitchell Air National
Guard Station
Mark Escobar
04-024PS GW

Analysis #5 10S+ GC Function Analysis Report



Time Printed: Oct 28,94 11:32
Sample Time: Oct 28,94 11:23

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	200.0	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

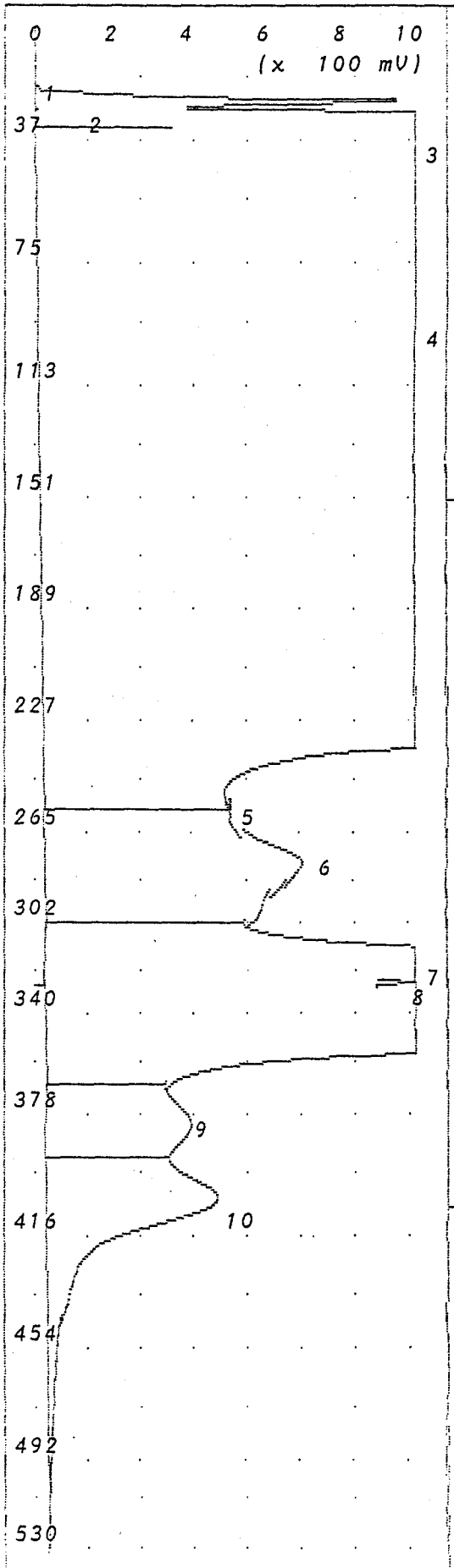
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	1.732	mVS	18.2
2	Unknown	268.9	mVS	21.6
3	Unknown	122.9	mVS	28.8
4	Unknown	85.61	mVS	36.6
5	Unknown	41.43	mVS	44.2
6	Unknown	38.76	mVS	48.6
7	Unknown	116.7	mVS	53.8
8	Unknown	81.68	mVS	62.7
9	Unknown	18.89	mVS	72.0
10	Unknown	297.0	mVS	75.4
11	Unknown	1.001	mVS	149.4
12	Unknown	5.169	mVS	314.6
13	Unknown	28.22	mVS	333.8

Notes

Mark Escobar
Billy Mitchell Air
National Guard Base
04-027PS GW

Analysis #13 10S+ GC Function Analysis Report



Time Printed: Oct 27,94 14:24
Sample Time: Oct 27,94 14:15

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	32	C
Max Gain	1000	
Analysis Time	530.0	sec

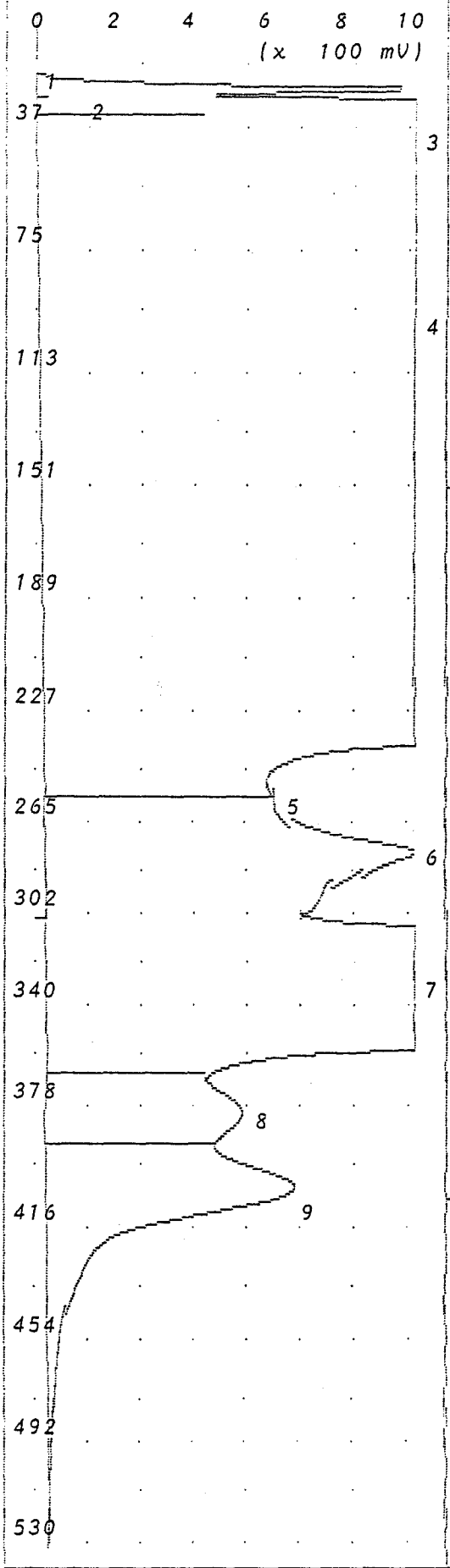
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	1.168	mVS	17.9
2	Unknown	11.77	mVS	19.3
3	Unknown	2.754	VSec	23.3
4	Unknown	6424.	VSec	89.8
5	Unknown	28.52	mVS	252.8
6	Unknown	28.53	VSec	275.7
7	Ethylbenzene	14.93	ppm	318.4
8	MP Xylene	47.35	ppm	328.2
9	Unknown	8.211	VSec	379.0
10	O Xylene	45.63	ppm	402.0

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
~~QA/QC Split Spoon (EQ)~~
04-028PS GW
MB

Analysis #16 10S+ GC Function Analysis Report



Time Printed:	Oct 27,94	15:00
Sample Time:	Oct 27,94	14:51

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

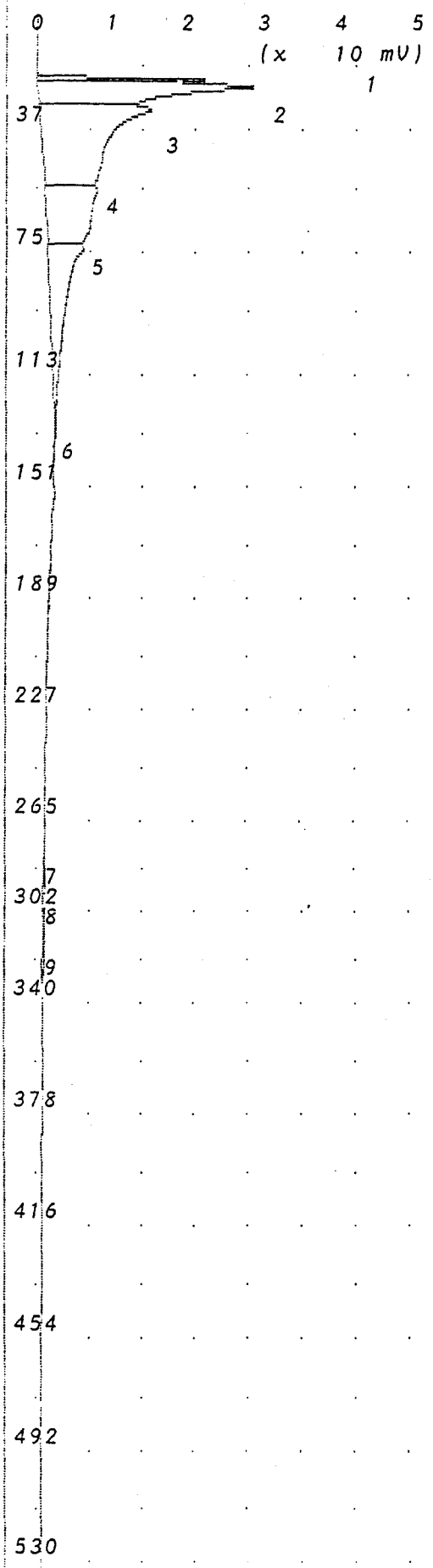
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	2.288 mVS	17.7
2	Unknown	36.67 mVS	19.2
3	Unknown	3.342 VSec	23.6
4	Unknown	6622. VSec	90.9
5	Unknown	26.49 mVS	253.0
6	Unknown	36.92 VSec	275.4
7	MP Xylene	227.7 PPM2	329.6
8	Unknown	10.88 VSec	378.6
9	O Xylene	65.34 PPM2	401.6

PPM1 = Alarm 1 PPM2 = Alarm2

Notes

Mark Escobar
Billy Mitchell Air National Guard Base
04-028PS GW

Analysis #16 10S+ GC Function Analysis Report



Time Printed: Oct 29,94 12:55
Sample Time: Oct 29,94 12:46

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

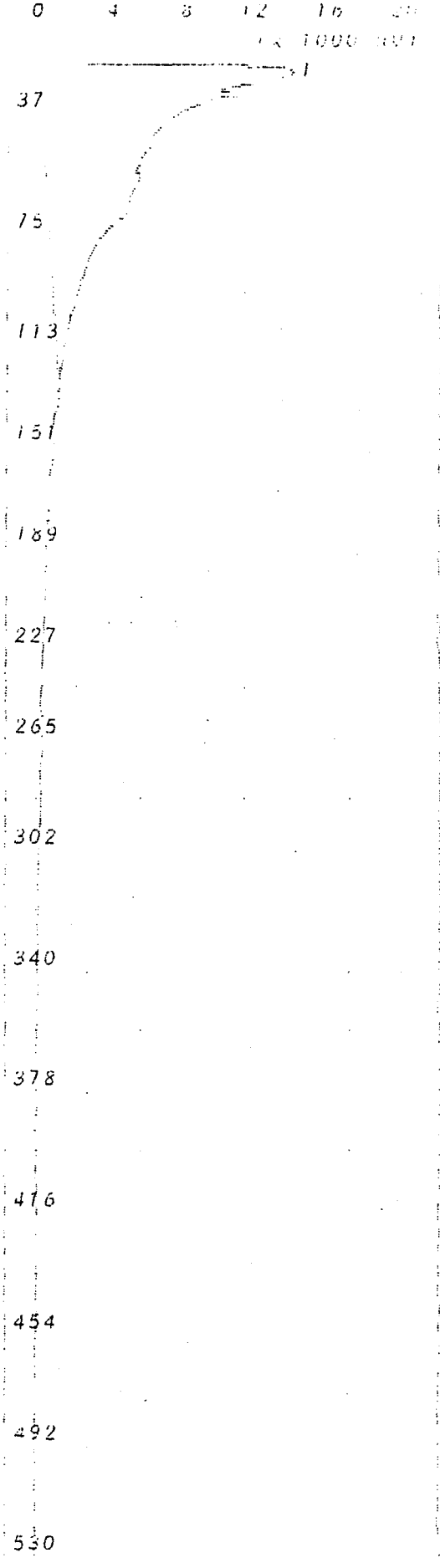
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	34.00	mVS	19.8
2	Unknown	139.3	mVS	22.0
3	Unknown	239.1	mVS	29.0
4	Unknown	110.1	mVS	54.2
5	Benzene	74.21	ppb	72.8
6	Unknown	0.075	mVS	131.8
7	Unknown	1.497	mVS	282.1
8	Unknown	0.290	mVS	300.2
9	Ethylbenzene	4.758	ppb	317.3

Notes

Billy Mitchell Air National
Guard Base

Mark Escobar
04-030PS GW



Time Printed: Nov 4.94 15:05
Sample Time: Nov 4.94 14:56

Method

Slope Up	2.000	mV/Sec
Slope Down	2.000	mV/Sec
Min Area	2.000	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

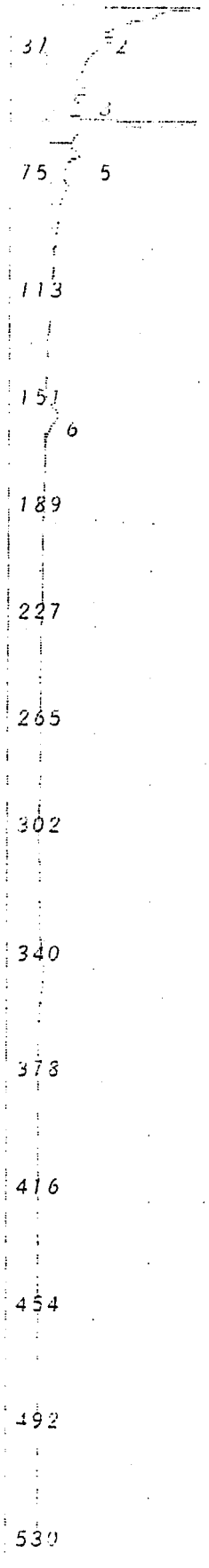
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	437.0 mVS	22.0

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-030PS GW

Analysis #20 10S+ GC Function Analysis Report



Time Printed: Nov 2,94 16:23
Sample Time: Nov 2,94 16:14

Method

Slope Up	3.000	mV/Sec
Slope Down	3.000	mV/Sec
Min Area	1.000	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

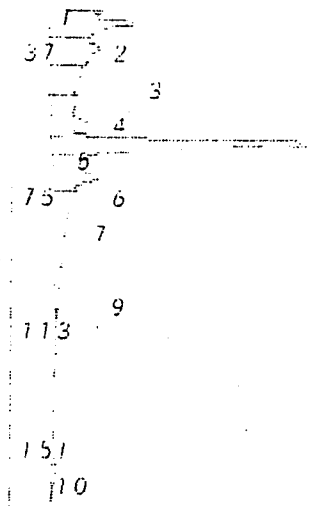
Pk	Compound Name	Area/Conc		R.T.
1	Unknown	224.4	mVS	19.8
2	Unknown	0.537	mVS	28.9
3	Unknown	6.304	mVS	44.1
4	Unknown	66.45	mVS	54.0
5	Unknown	54.06	mVS	63.2
6	Toluene	9.747	ppb	147.8

Notes

Billy Mitchell Air National Guard Station

Mark Escobar
04-031PS GW

Analysis #19 [illegible] Analysis Report



Time Printed: Nov 3,94 11:54
Sample Time: Nov 3,94 11:46

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	20.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

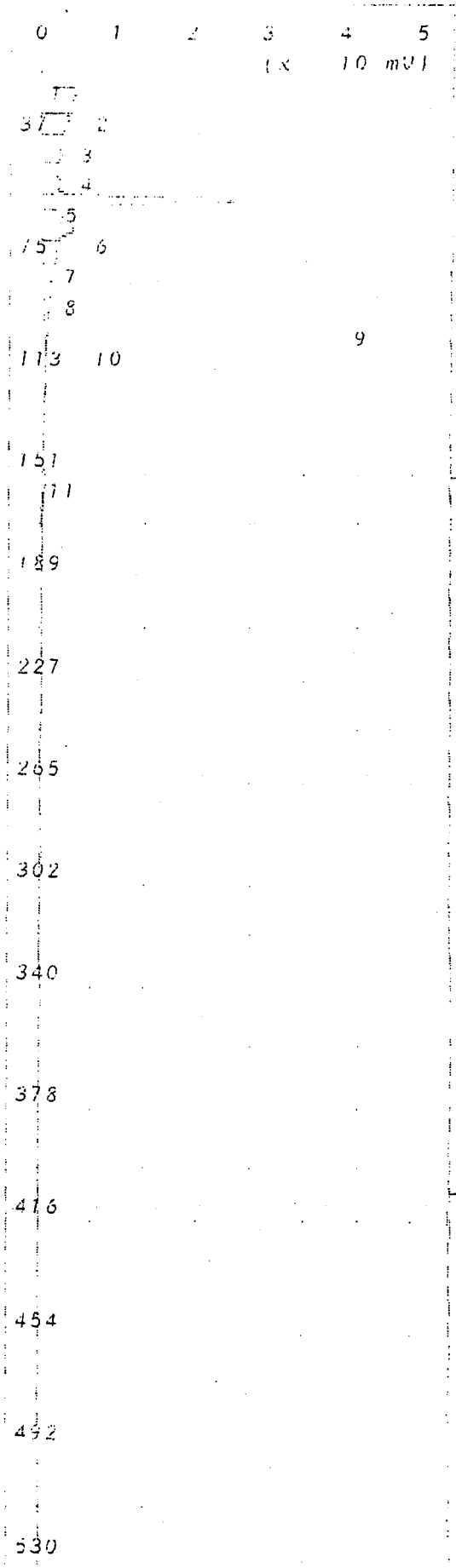
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	0.352 mVS	18.4
2	Unknown	10.26 mVS	19.9
3	Unknown	42.33 mVS	22.8
4	Unknown	37.38 mVS	29.3
5	Unknown	21.96 mVS	37.2
6	Unknown	8.959 mVS	45.0
7	Unknown	14.49 mVS	49.3
8	Unknown	94.01 mVS	53.6
9	Benzene	43.73 ppb	63.3
10	Toluene	2.497 ppb	149.2

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-033PS GW

Analysis #28 TOS+ GC Function Analysis Report



Time Printed: Nov 3,94 13:25
Sample Time: Nov 3,94 13:16

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	20.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	32	C
Max Gain	1000	
Analysis Time	530.0	sec

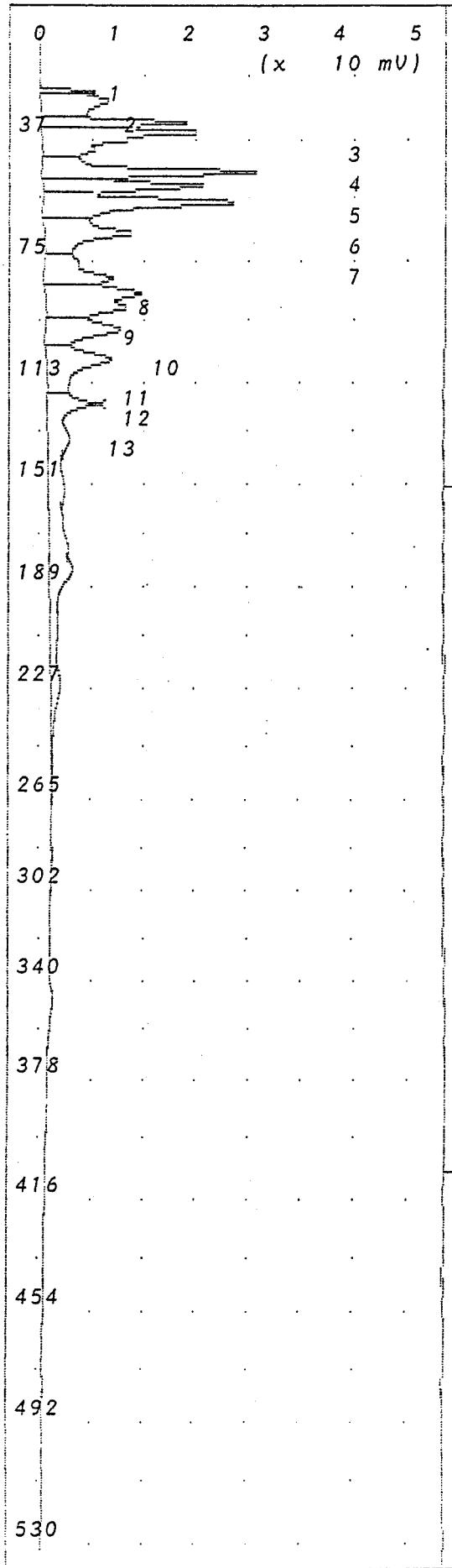
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	0.104	mVS	18.5
2	Unknown	10.98	mVS	19.6
3	Unknown	23.99	mVS	22.6
4	Unknown	27.69	mVS	29.1
5	Unknown	0.092	mVS	32.1
6	Unknown	20.00	mVS	37.1
7	Unknown	6.031	mVS	45.1
8	Unknown	11.54	mVS	49.4
9	Unknown	79.06	mVS	53.9
10	Benzene	37.67	ppb	63.5
11	Toluene	2.541	ppb	150.4

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-034PS GW

Analysis #30 10S+ GC Function Analysis Report



Time Printed: Oct 29,94 16:08
Sample Time: Oct 29,94 15:56

Method

Slope Up	1.000	mV/Sec
Slope Down	1.000	mV/Sec
Min Area	1.000	mVSec
Min Height	3.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	30	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

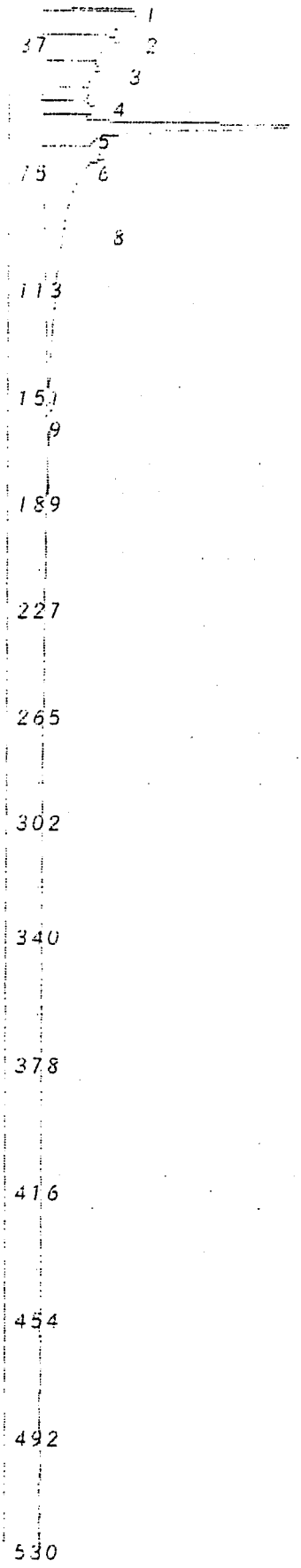
Pk	Compound Name	Area/Conc		R.T.
1	Unknown	13.77	mVS	20.6
2	Unknown	49.63	mVS	23.4
3	Unknown	46.93	mVS	29.8
4	Unknown	104.8	mVS	32.6
5	Unknown	98.24	mVS	45.0
6	Unknown	64.28	mVS	49.6
7	Unknown	104.6	mVS	54.3
8	Unknown	73.95	mVS	64.5
9	Benzene	10.83	ppb	78.4
10	Unknown	103.9	mVS	83.0
11	Unknown	58.18	mVS	94.2
12	Unknown	71.45	mVS	103.8
13	Unknown	254.4	mVS	119.3

Notes

Billy Mitchell Air National Guard Base

Mark Escobar
04-035PS GW

Analysis #32 10S+ GC Function Analysis Report



Time Printed: Nov 3,94 14:15
Sample Time: Nov 3,94 14:06

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	20.0	%
Det Flow	12	ml/min
M/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	31	C
Max Gain	1000	
Analysis Time	530.0	sec

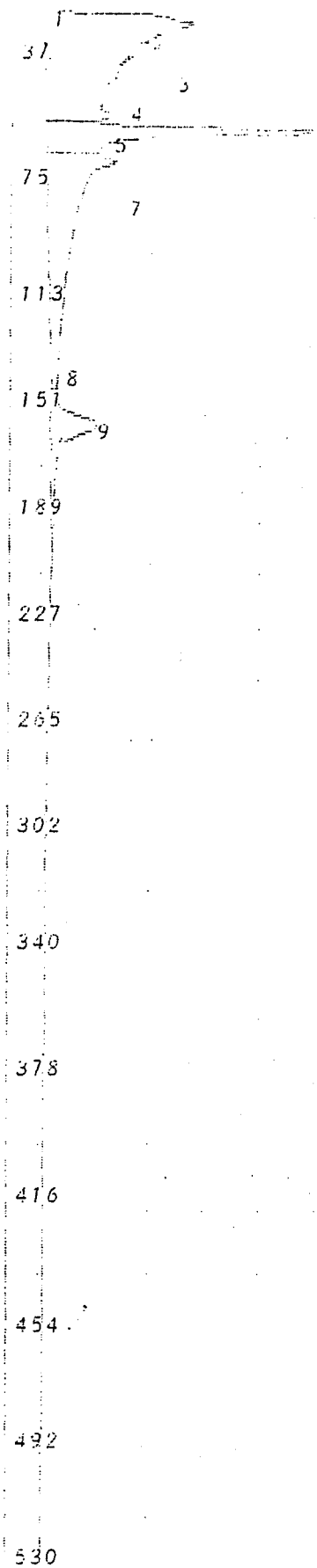
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	21.38	mVS	20.2
2	Unknown	73.10	mVS	22.9
3	Unknown	67.22	mVS	29.2
4	Unknown	49.92	mVS	37.6
5	Unknown	21.67	mVS	45.2
6	Unknown	27.76	mVS	49.7
7	Unknown	119.7	mVS	53.9
8	Benzene	112.8	ppb	63.7
9	Toluene	14.41	ppb	150.6

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-036PS GW

Analysis #: 10S+ GC Function Analysis Report



Time Printed: Nov 3,94 14:53
Sample Time: Nov 3,94 14:44

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	20.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	31	C
Max Gain	1000	
Analysis Time	530.0	sec

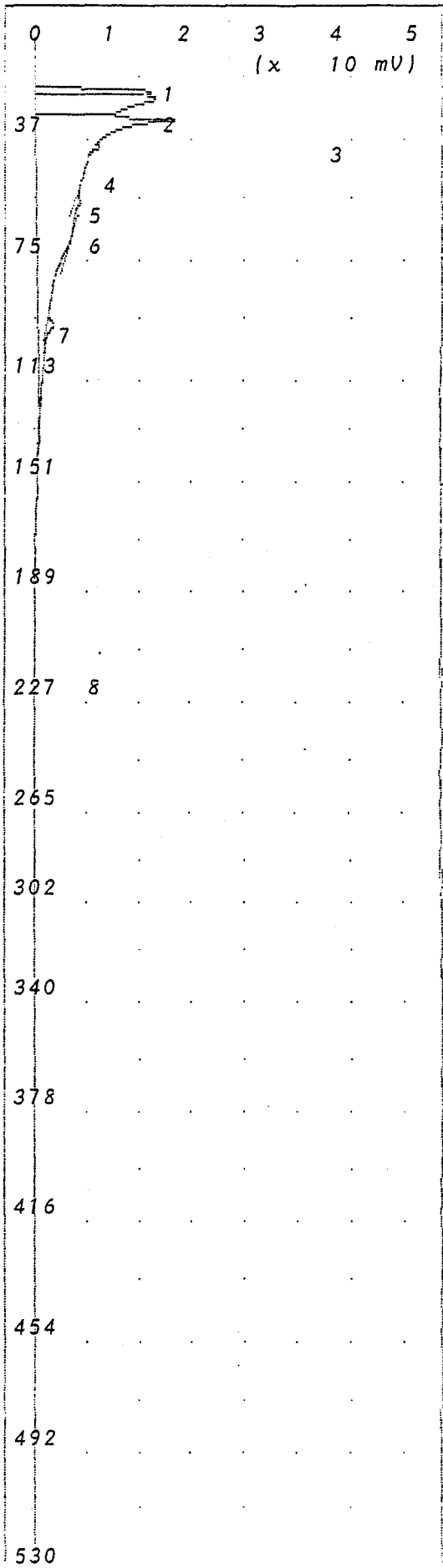
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	0.227	mVS	18.6
2	Unknown	358.5	mVS	22.6
3	Unknown	6.234	mVS	29.3
4	Unknown	1.671	mVS	37.5
5	Unknown	3.966	mVS	50.0
6	Unknown	138.9	mVS	54.0
7	Benzene	135.1	ppb	64.0
8	Unknown	0.387	mVS	132.1
9	Toluene	90.24	ppb	151.8

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-037PS GW

Analysis #25 10S+ GC Function Analysis Report



Time Printed: Oct 29,94 15:06
Sample Time: Oct 29,94 14:57

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	31	C
Max Gain	1000	
Analysis Time	530.0	sec

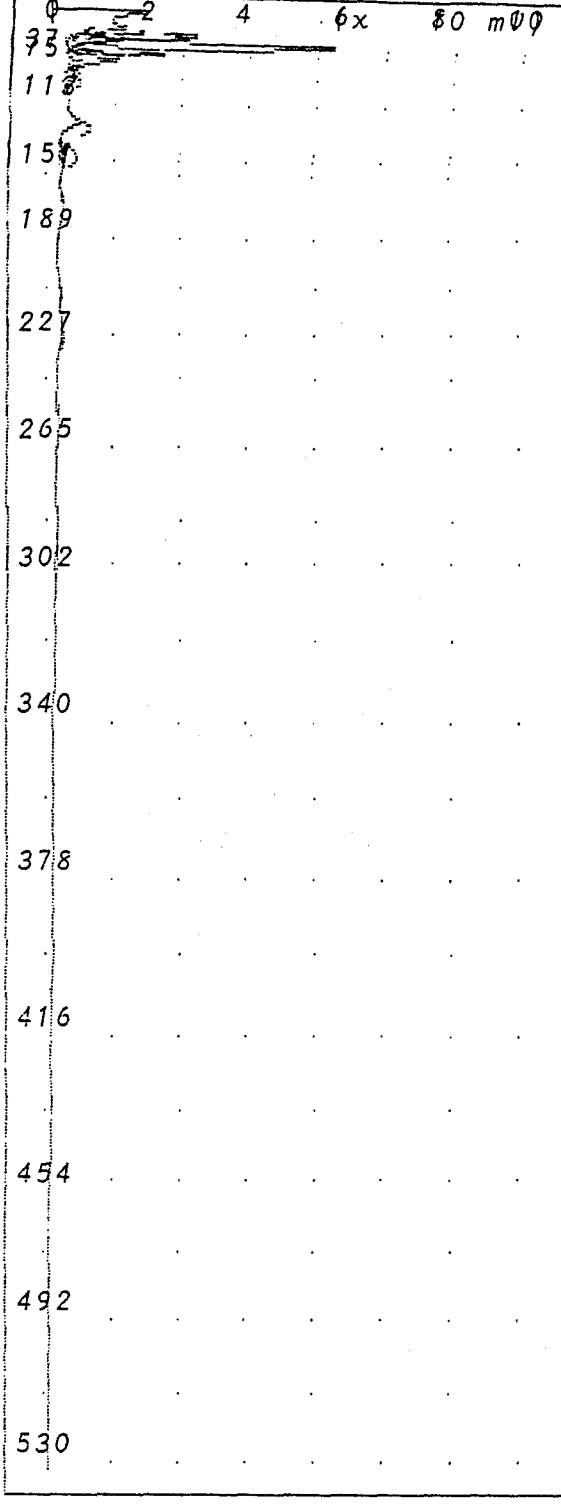
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	36.54	mVS	20.4
2	Unknown	88.43	mVS	22.4
3	Unknown	390.5	mVS	29.5
4	Unknown	1.187	mVS	37.8
5	Unknown	0.350	mVS	51.8
6	Unknown	9.863	mVS	54.8
7	Unknown	3.021	mVS	93.7
8	Unknown	1.684	mVS	215.2

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-038PS GW

Analysis #11 10S+ GC Function Analysis Report

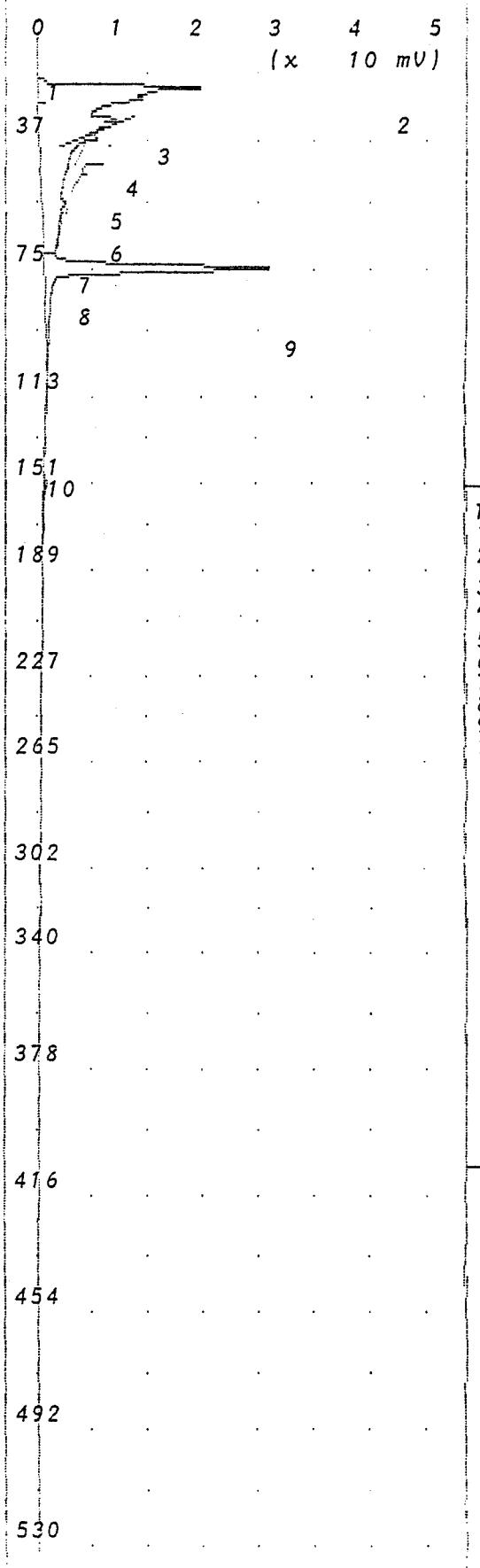


Sample Printed Method 21,94 14:08
Sample Number 0
Delay Percent 1000 mV&Sec
Acc Flow 10 ml/min
Oven Temp 40 C
Ph Amplitude Mrmak Rep 2000 Coec R T

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
04-001PS 1'-3'

Analysis #12 10S+ GC Function Analysis Report



Time Printed: Oct 21,94 14:32
Sample Time: Oct 21,94 14:23

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	30	C
Max Gain	1000	
Analysis Time	530.0	sec

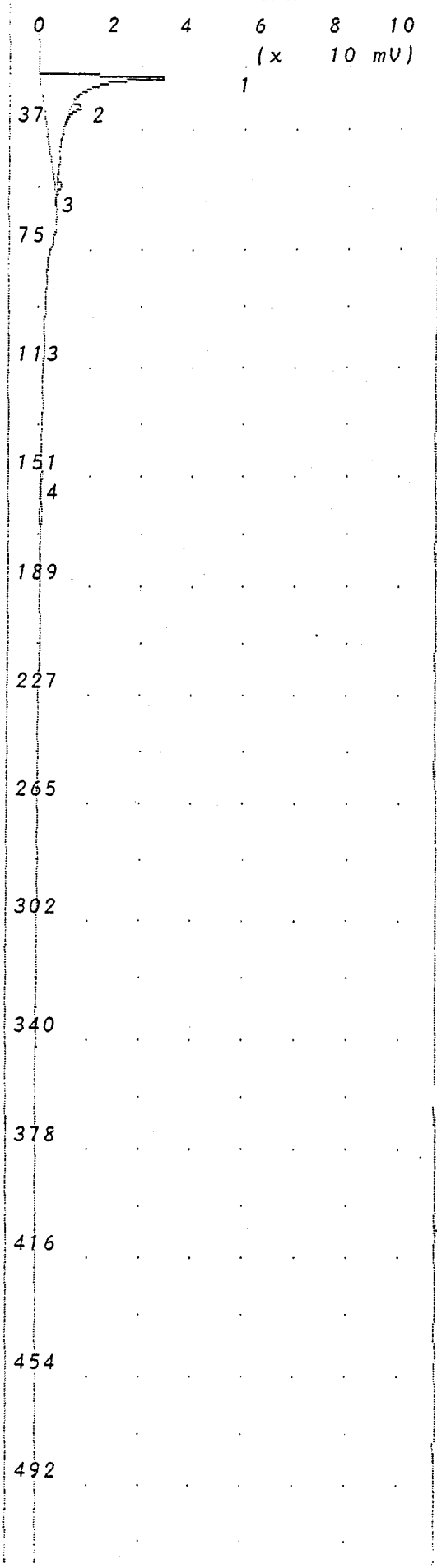
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	1.669	mVS	18.1
2	Unknown	243.9	mVS	19.4
3	Unknown	2.701	mVS	23.3
4	Unknown	6.873	mVS	29.1
5	Unknown	5.878	mVS	31.1
6	Unknown	4.512	mVS	34.8
7	Unknown	0.190	mVS	43.8
8	Unknown	2.323	mVS	54.0
9	Benzene	40.40	ppb	72.8
10	Toluene	1.097	ppb	151.0

Notes

Mark Escobar
Billy Mitchell Air National Guard Base
04-001PS 5'-7'

Analysis #6 10S+ GC Function Analysis Report



Time Printed: Oct 21,94 10:04
Sample Time: Oct 21,94 09:55

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

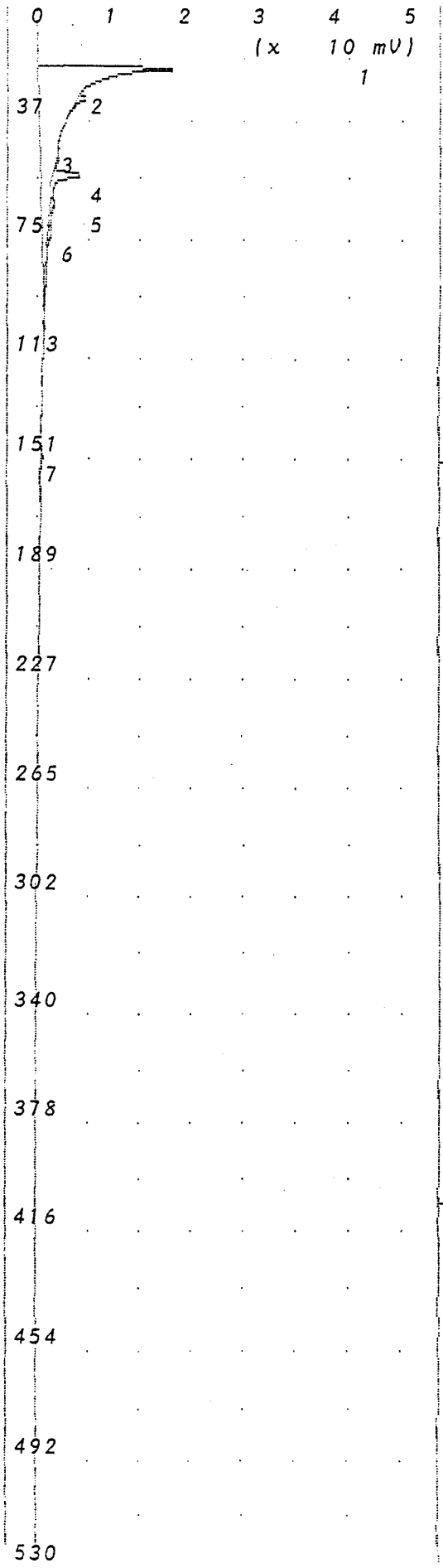
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	254.0 mVS	18.6
2	Unknown	6.340 mVS	28.4
3	Unknown	3.279 mVS	53.2
4	Toluene	3.439 ppb	149.0

Notes

Mark Escobar
Billy Mitchell Air National Guard Base
04-002PS 1'-3'

Analysis #7 10S+ GC Function Analysis Report



Time Printed: Oct 21,94 10:15
Sample Time: Oct 21,94 10:06

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

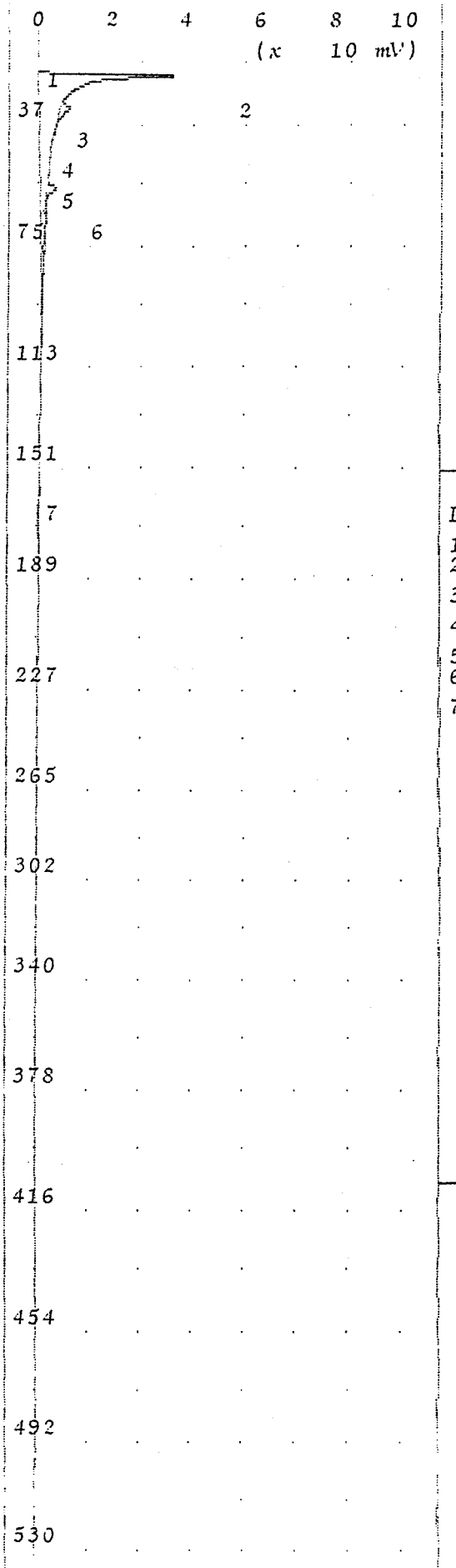
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	217.3	mVS	18.6
2	Unknown	2.335	mVS	28.2
3	Unknown	0.442	mVS	47.3
4	Unknown	9.768	mVS	52.8
5	Unknown	2.624	mVS	61.6
6	Benzene	2.586	ppb	70.9
7	Toluene	3.241	ppb	148.4

Notes

Mark Escobar
Billy Mitchell Air National Guard Base
04-002PS 5'-7'

Analysis #15 10S+ GC Function Analysis Report



Time Printed: Oct 20,94 16:33
Sample Time: Oct 20,94 16:24

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	15	ml/min
B/F Flow	15	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

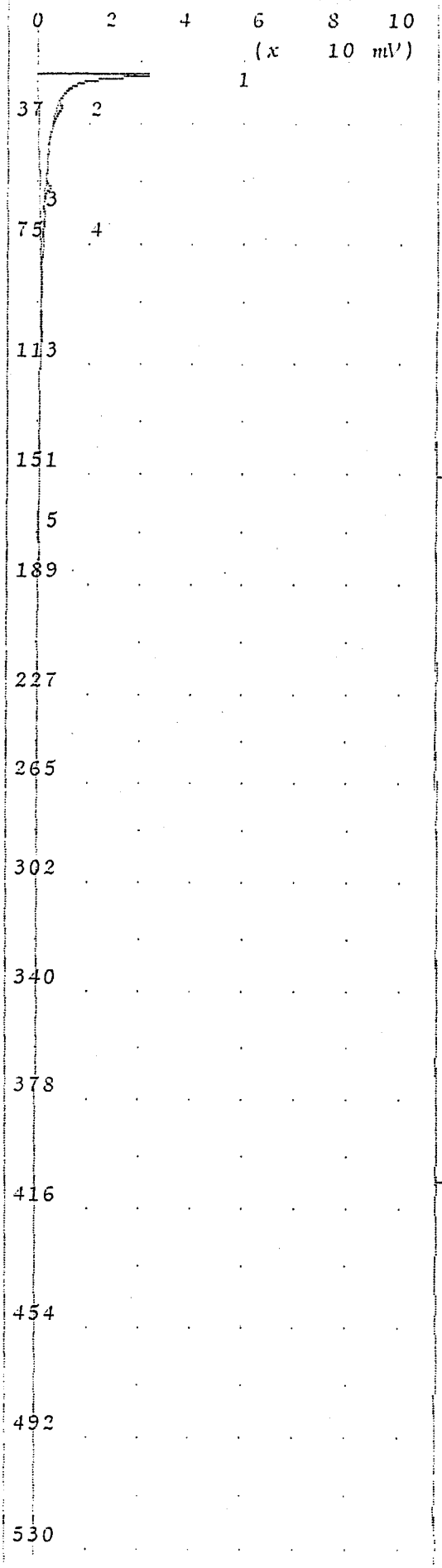
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	0.189	mVS	18.5
2	Unknown	278.0	mVS	19.7
3	Unknown	7.543	mVS	30.2
4	Unknown	0.522	mVS	37.6
5	Unknown	6.073	mVS	55.5
6	Unknown	0.664	mVS	64.5
7	Toluene	3.354	ppb	156.8

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
04-003PS 1'-3'

Analysis =16 10S+ GC Function Analysis Report



Time Printed: Oct 20,94 16:44
Sample Time: Oct 20,94 16:35

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	15	ml/min
B/F Flow	15	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

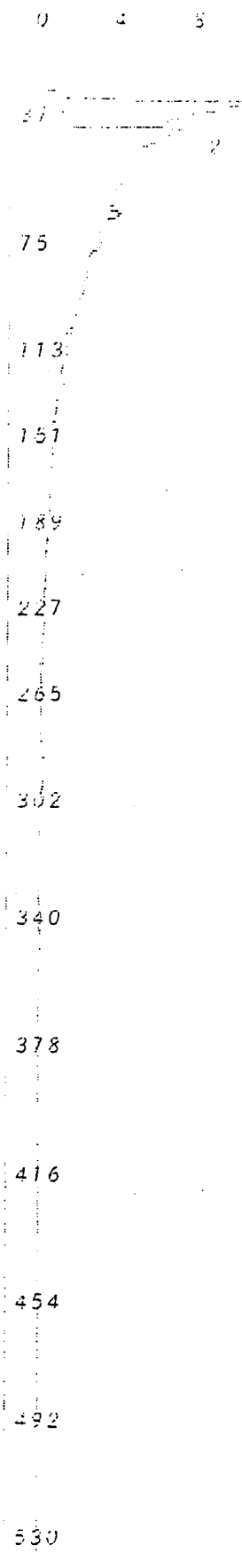
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	248.7	mVS	19.8
2	Unknown	3.288	mVS	30.4
3	Unknown	3.504	mVS	55.8
4	Unknown	0.457	mVS	64.9
5	Unknown	0.991	mVS	157.0

Notes

Mark Escobar
Billy Mitchell Air National Guard Base
04-003PS 1 MS
5'-7'

Analysis File 105+ GC Function Analysis Report



Time Printed: Nov 2,94 14:46
Sample Time: Nov 2,94 14:37

Slope Up	3.000	mV/Sec
Slope Down	3.000	mV/Sec
Min Area	1.000	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Scan	1000	
Analysis Time	530.0	sec

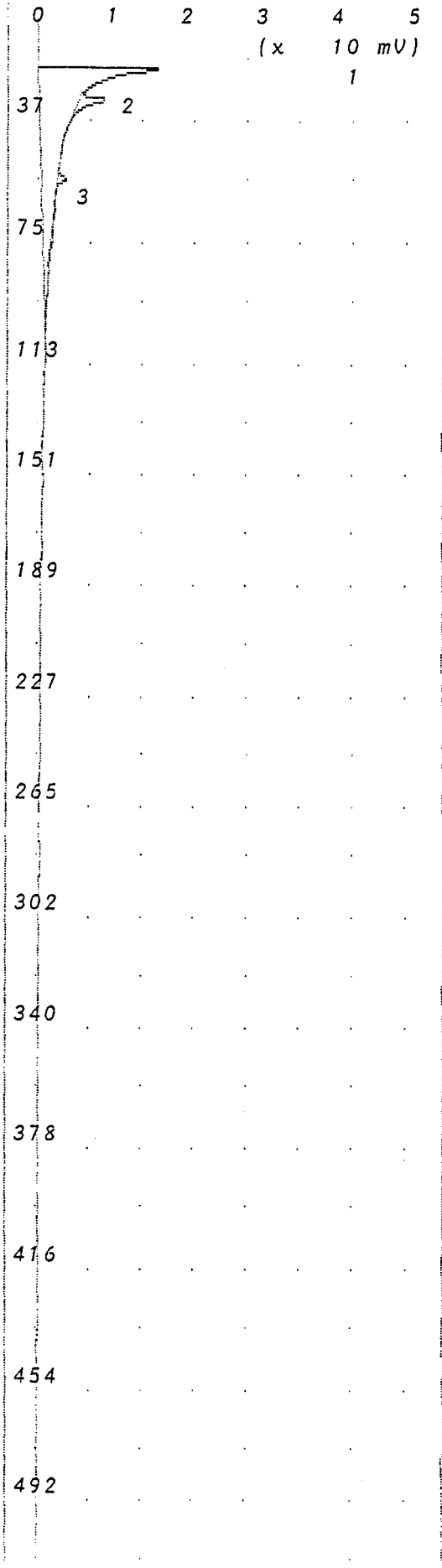
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	62.82 mVS	27.2
2	Unknown	38.79 mVS	36.1

Notes

Billy Mitchell Air National
Guard Station
Mark Escobar
04-004PS 1'-3'

Analysis #21 10S+ GC Function Analysis Report



Time Printed: Oct 21,94 16:43
Sample Time: Oct 21,94 16:34

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	30	C
Max Gain	1000	
Analysis Time	530.0	sec

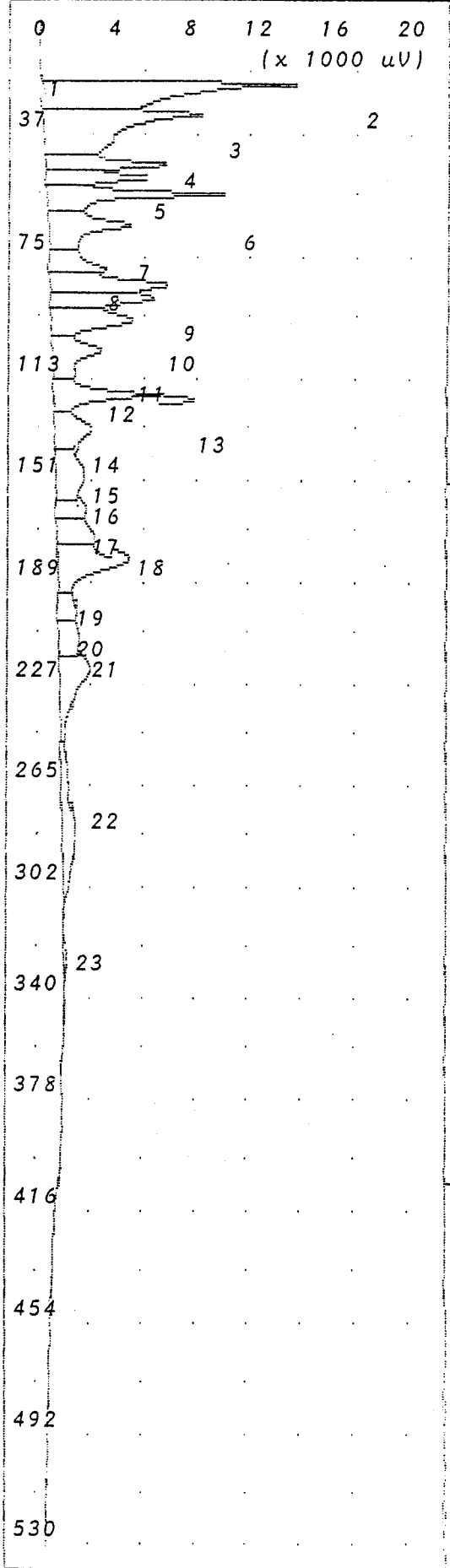
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	242.8 mVS	19.4
2	Unknown	8.895 mVS	28.9
3	Unknown	3.522 mVS	53.8

Notes

Mark Escobar
Billy Mitchell Air National Guard Base
04-005PS 1'-3'

Analysis #22 10S+ GC Function Analysis Report



Time Printed: Oct 21,94 16:54
Sample Time: Oct 21,94 16:45

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	30	C
Max Gain	1000	
Analysis Time	530.0	sec

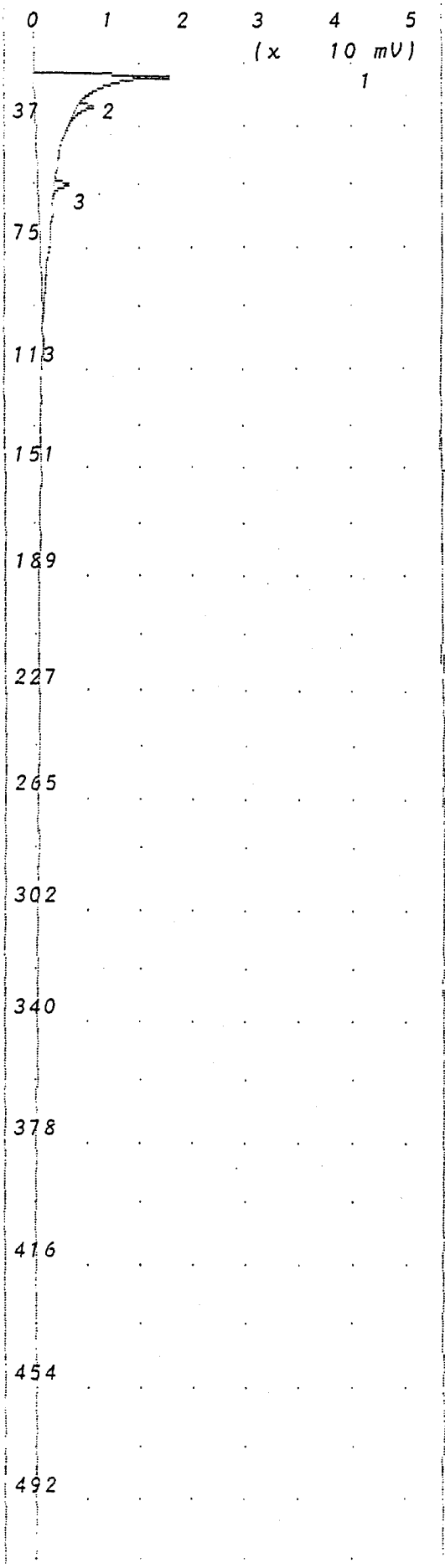
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	0.127	mVS	18.2
2	Unknown	72.90	mVS	19.6
3	Unknown	68.44	mVS	29.0
4	Unknown	22.32	mVS	44.8
5	Unknown	18.79	mVS	48.8
6	Unknown	32.87	mVS	54.0
7	Unknown	30.54	mVS	63.3
8	Benzene	8.059	ppb	77.0
9	Unknown	27.60	mVS	82.0
10	Unknown	22.42	mVS	86.1
11	Unknown	27.36	mVS	92.9
12	Unknown	22.15	mVS	102.4
13	Unknown	46.73	mVS	117.7
14	Unknown	21.96	mVS	130.0
15	Toluene	14.93	ppb	147.6
16	Unknown	12.82	mVS	161.2
17	Unknown	15.66	mVS	169.6
18	Unknown	41.64	mVS	179.4
19	Unknown	11.35	mVS	196.6
20	Unknown	11.37	mVS	207.6
21	Unknown	28.82	mVS	220.0
22	Unknown	27.96	mVS	269.8
23	Ethylbenzene	2.560	ppb	324.0

Notes

Mark Escobar
Billy Mitchell Air National Guard Base
04-005PS 5'-7'

Analysis #13 10S+ GC Function Analysis Report



Time Printed: Oct 21,94 14:43
Sample Time: Oct 21,94 14:34

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	30	C
Max Gain	1000	
Analysis Time	530.0	sec

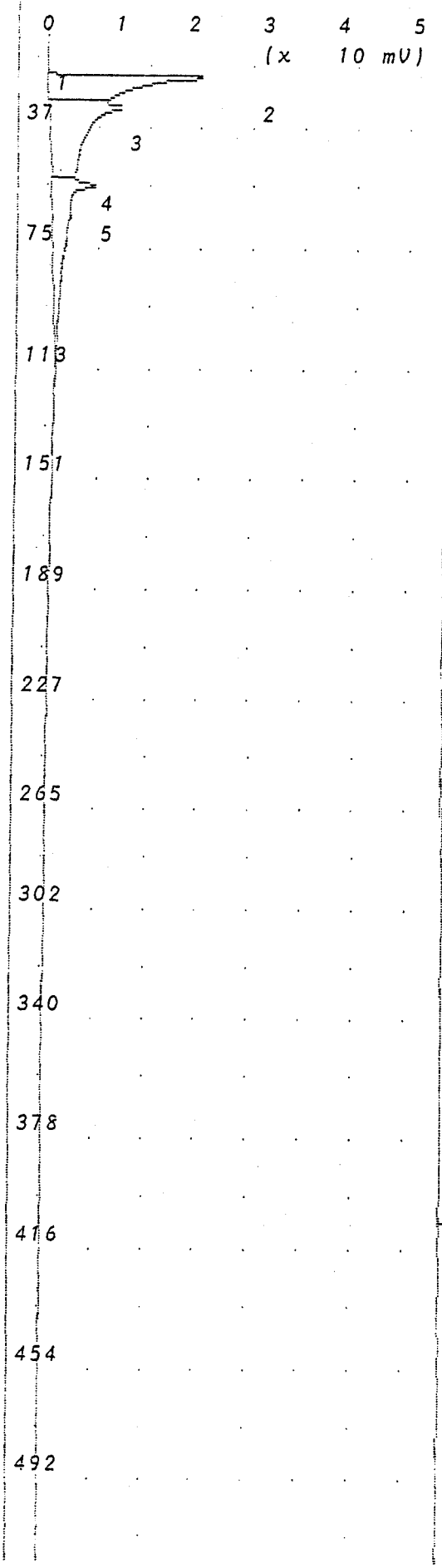
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	245.9 mVS	19.6
2	Unknown	4.916 mVS	29.2
3	Unknown	4.114 mVS	54.0

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
04-006PS 1'-3'

Analysis #14 10S+ GC Function Analysis Report



Time Printed:	Oct 21,94	14:54
Sample Time:	Oct 21,94	14:45

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	30	C
Max Gain	1000	
Analysis Time	530.0	sec

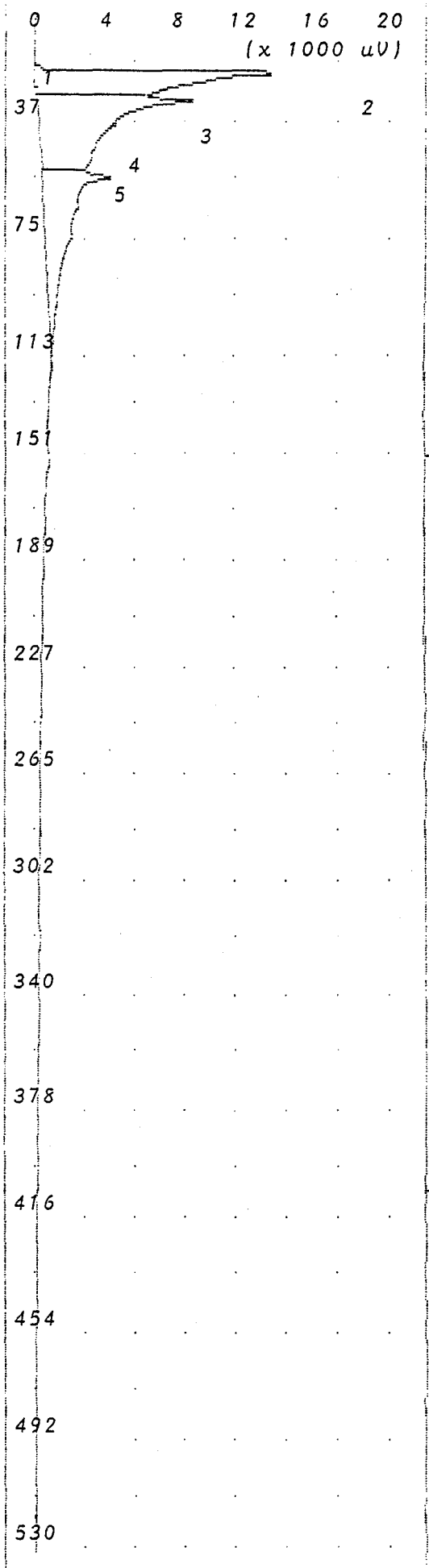
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	0.142 mVS	18.1
2	Unknown	115.3 mVS	19.2
3	Unknown	125.0 mVS	28.9
4	Unknown	89.49 mVS	53.8
5	Unknown	0.383 mVS	62.8

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
04-006PS 5'-7'

Analysis #7 10S+ GC Function Analysis Report



Time Printed: Oct 24,94 16:51
Sample Time: Oct 24,94 16:42

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	31	C
Max Gain	1000	
Analysis Time	530.0	sec

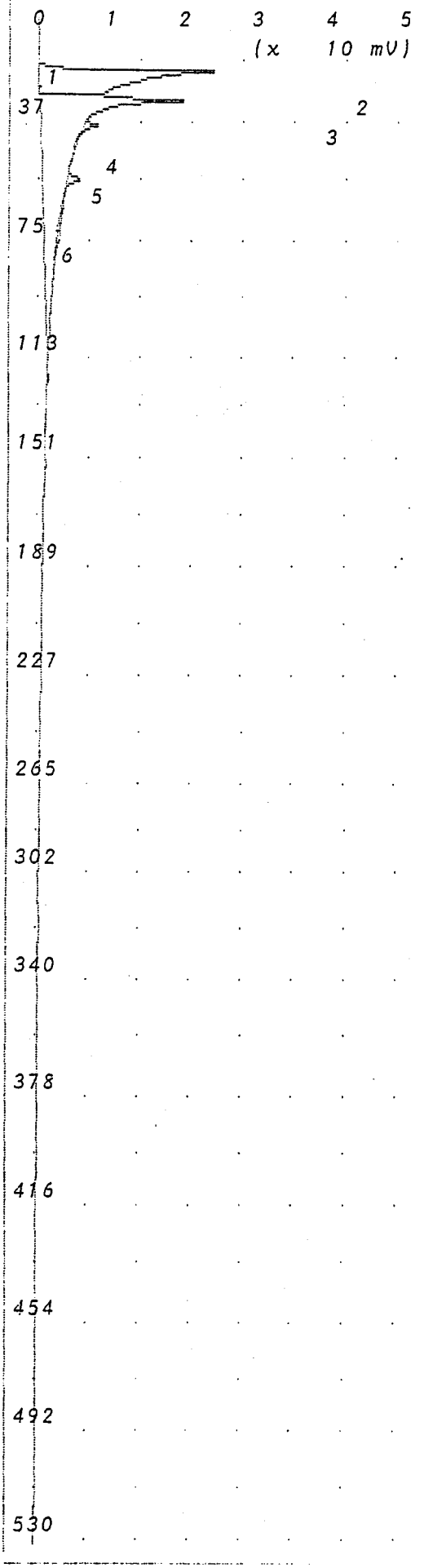
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	0.383	mVS	17.9
2	Unknown	80.90	mVS	19.4
3	Unknown	102.1	mVS	28.7
4	Unknown	0.295	mVS	36.4
5	Unknown	69.30	mVS	53.9

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
04-007PS 1'-3'

Analysis #8 10S+ GC Function Analysis Report



Time Printed: Oct 24,94 17:02
Sample Time: Oct 24,94 16:53

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	31	C
Max Gain	1000	
Analysis Time	530.0	sec

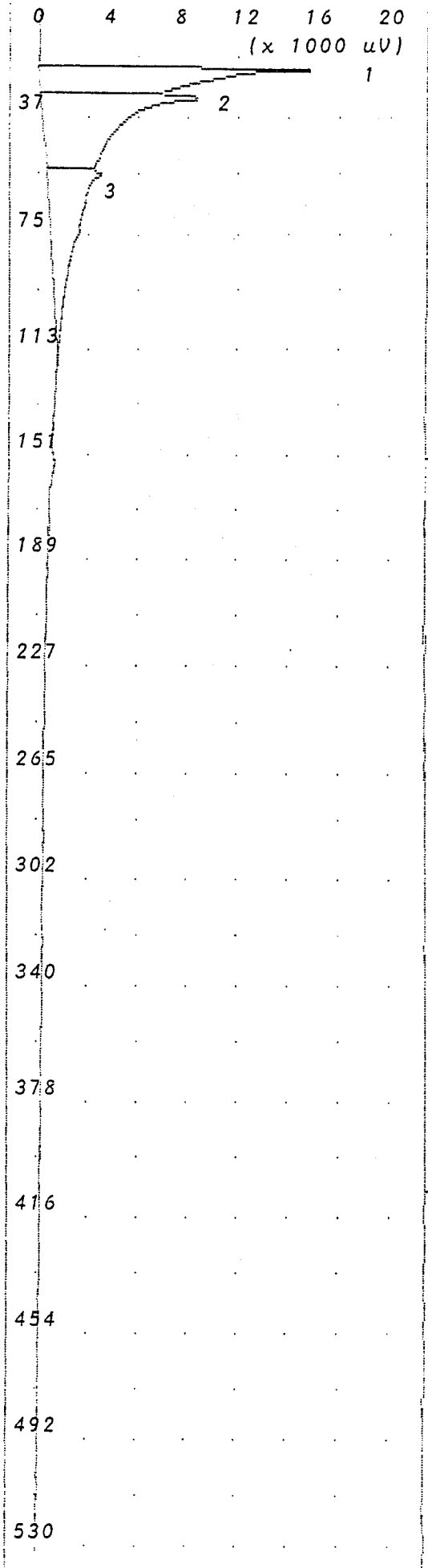
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	0.838 mVS	17.8
2	Unknown	120.7 mVS	19.0
3	Unknown	267.2 mVS	28.4
4	Unknown	1.075 mVS	36.6
5	Unknown	5.433 mVS	53.8
6	Benzene	0.469 ppb	72.5

Notes

Mark Escobar
Billy Mitchell Air National Guard Base
04-007PS 5'-7'

Analysis #9 10S+ GC Function Analysis Report



Time Printed: Oct 24,94 17:13
Sample Time: Oct 24,94 17:05

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	31	C
Max Gain	1000	
Analysis Time	530.0	sec

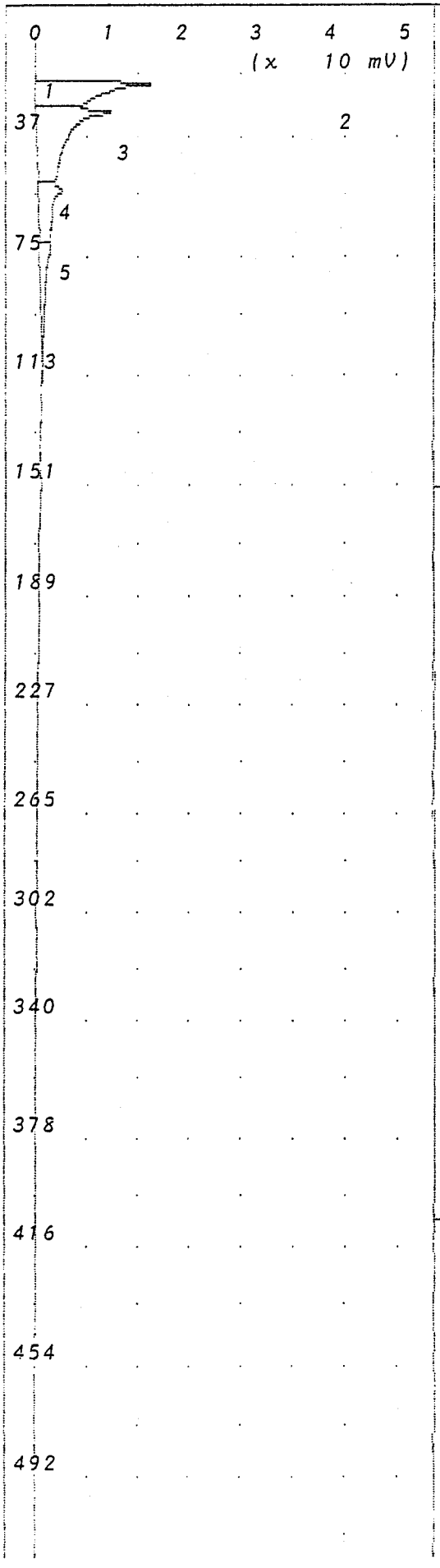
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	88.57 mVS	19.6
2	Unknown	114.2 mVS	29.0
3	Unknown	73.33 mVS	54.0

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
04-008PS 1'-3'

Analysis #8 10S+ GC Function Analysis Report



Time Printed: Oct 25,94 12:16
Sample Time: Oct 25,94 12:07

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

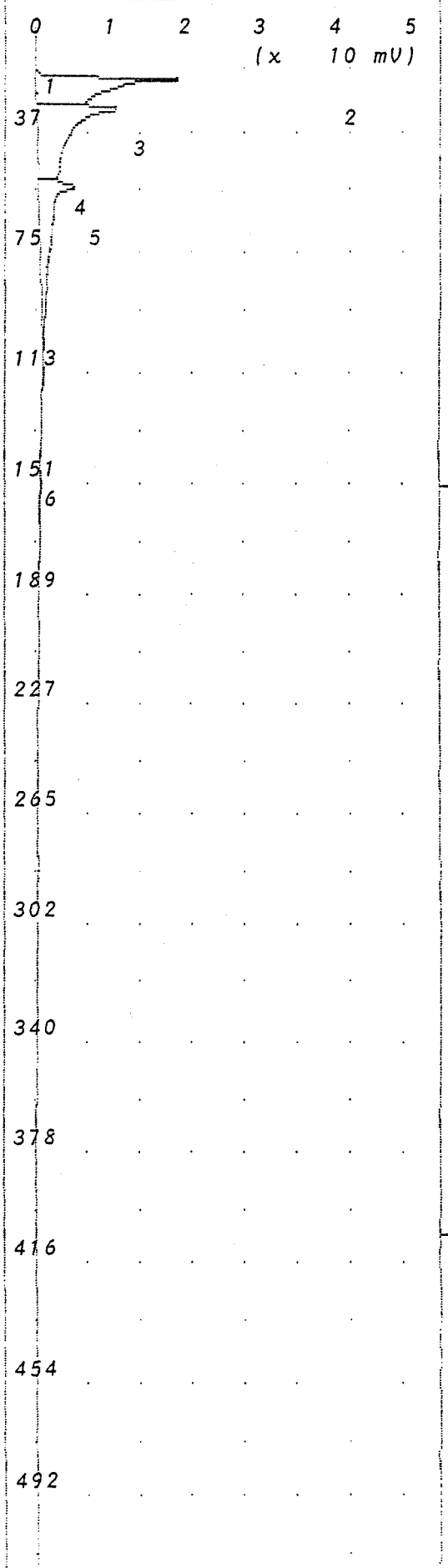
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	0.283	mVS	17.5
2	Unknown	84.86	mVS	18.8
3	Unknown	103.4	mVS	28.0
4	Unknown	37.62	mVS	52.5
5	Benzene	8.649	ppb	70.6

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
04-008PS 5'-7'

Analysis #13 10S+ GC Function Analysis Report



Time Printed: Oct 25,94 13:14
Sample Time: Oct 25,94 13:05

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

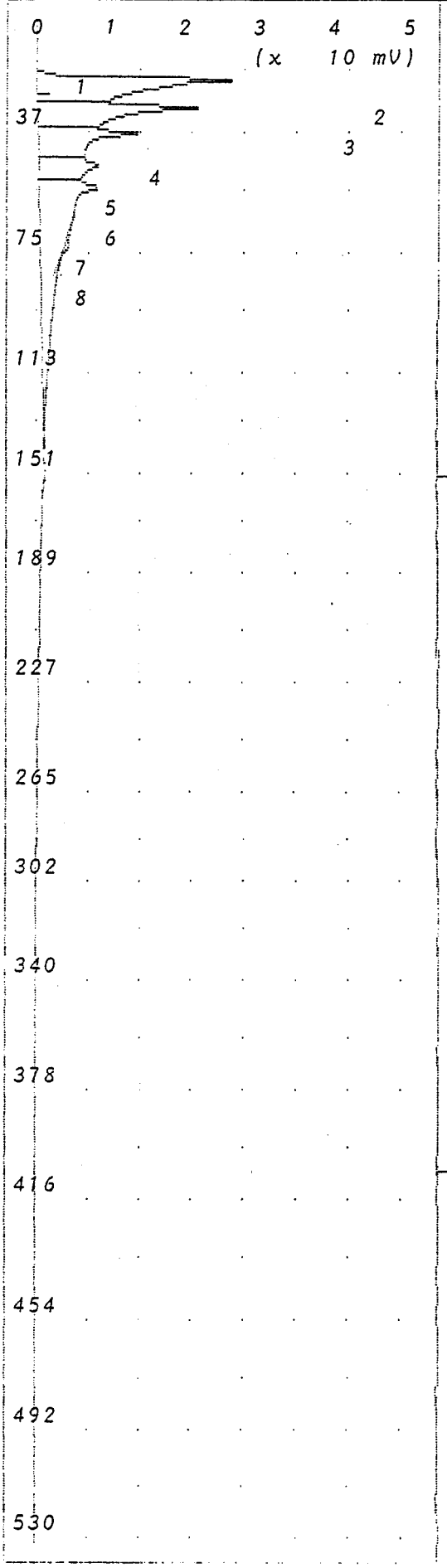
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	0.949	mVS	17.4
2	Unknown	89.63	mVS	18.8
3	Unknown	111.2	mVS	28.2
4	Unknown	72.80	mVS	52.9
5	Unknown	0.553	mVS	61.4
6	Toluene	1.134	ppb	148.6

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
04-009PS 5'-7'

Analysis #5 10S+ GC Function Analysis Report



Time Printed: Oct 26,94 12:07
Sample Time: Oct 26,94 11:58

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

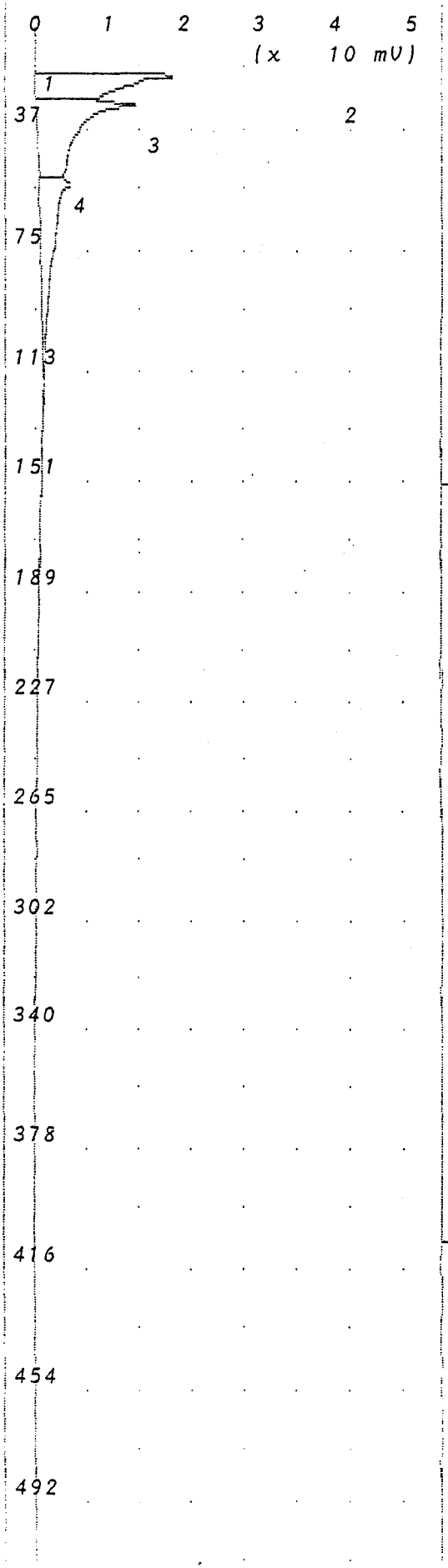
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	2.689	mVS	17.1
2	Unknown	135.8	mVS	18.4
3	Unknown	101.9	mVS	27.4
4	Unknown	76.82	mVS	35.9
5	Unknown	44.99	mVS	45.8
6	Unknown	183.2	mVS	52.8
7	Unknown	1.852	mVS	61.8
8	Benzene	1.061	ppb	70.9

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
04-010PS 1'-3'

Analysis #6 10S+ GC Function Analysis Report



Time Printed: Oct 26,94 12:19
Sample Time: Oct 26,94 12:10

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

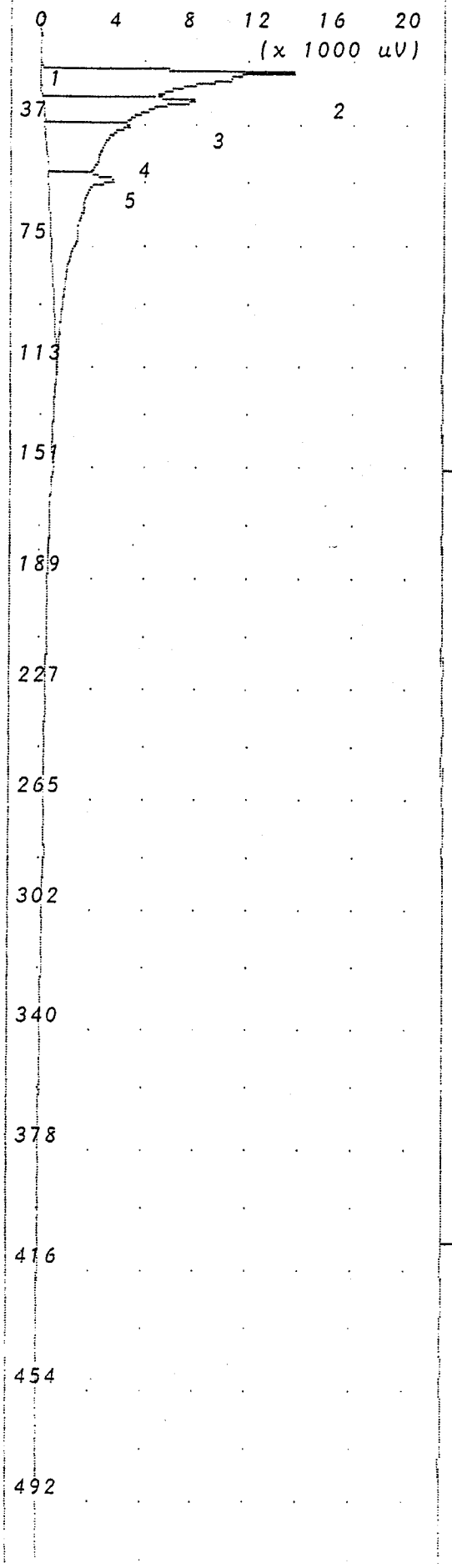
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	0.135 mVS	17.2
2	Unknown	109.0 mVS	18.5
3	Unknown	142.5 mVS	27.8
4	Unknown	98.31 mVS	52.6

Notes

Mark Escobar
Billy Mitchell Air National Guard Base
04-010PS 3'-5' Duplicate

Analysis #7 10S+ GC Function Analysis Report



Time Printed: Oct 26,94 12:30
Sample Time: Oct 26,94 12:21

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

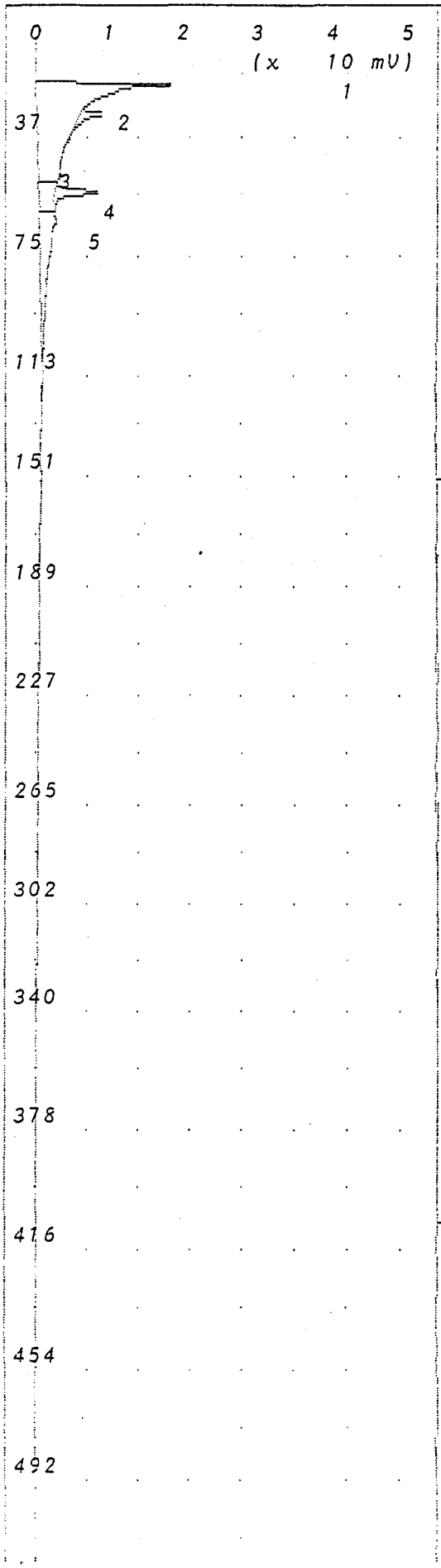
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	0.138	mVS	17.7
2	Unknown	79.21	mVS	18.9
3	Unknown	48.39	mVS	28.1
4	Unknown	51.03	mVS	35.8
5	Unknown	65.83	mVS	52.7

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
04-010PS 5'-7'

Analysis #8 10S+ GC Function Analysis Report



Time Printed: Oct 26,94 12:41
Sample Time: Oct 26,94 12:32

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

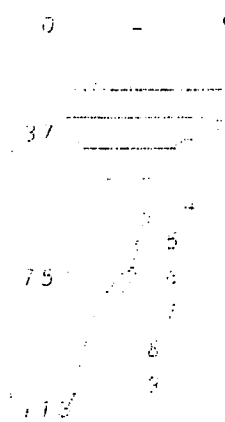
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	184.8	mVS	19.0
2	Unknown	7.632	mVS	28.2
3	Unknown	0.756	mVS	47.4
4	Unknown	34.22	mVS	53.1
5	Unknown	49.43	mVS	62.1

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
04-010PS 8'-10'

Analysis #9 [illegible] Analysis Report



Time Printed: Nov 2,94 09:33
Sample Time: Nov 2,94 09:24

Method

Prone Un	0.500	mV/Sec
Prone Down	1.500	mV/Sec
Min Area	[illegible]	mVSec
Min Height	0.030	mV
Analysis Delay	0.0	Sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	10	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

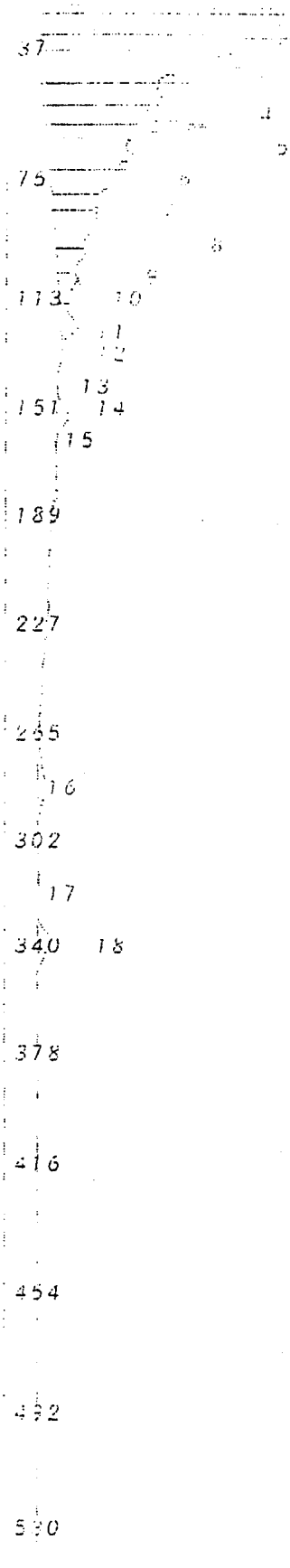
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	23.10	mVS	19.4
2	Unknown	63.01	mVS	21.3
3	Unknown	50.27	mVS	28.2
4	Unknown	23.73	mVS	36.1
5	Unknown	4.629	mVS	43.1
6	Unknown	11.78	mVS	46.1
7	Unknown	7.389	mVS	53.4
8	Unknown	0.042	mVS	62.1
9	Unknown	1.450	mVS	62.1
10	Unknown	1.711	mVS	271.4

Notes

Billy Mitchell Air National Guard Station
Mark Escobar
04-011PS 5'-7'

Analysis #1 TCS+ GC Function Analysis Report



Time Printed: Nov 2,94 09:46
Sample Time: Nov 2,94 09:27

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
A F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	16.84	mVS	19.3
2	Unknown	41.66	mVS	21.0
3	Unknown	26.98	mVS	28.2
4	Unknown	14.29	mVS	32.6
5	Unknown	24.59	mVS	36.2
6	Unknown	15.65	mVS	44.0
7	Unknown	10.09	mVS	48.2
8	Unknown	24.28	mVS	53.2
9	Unknown	22.83	mVS	62.2
10	Benzene	2.447	ppb	75.3
11	Unknown	10.28	mVS	79.7
12	Unknown	4.548	mVS	90.9
13	Unknown	5.053	mVS	99.3
14	Unknown	3.414	mVS	114.2
15	Toluene	1.880	ppb	146.4
16	Unknown	3.320	mVS	275.7
17	Ethylbenzene	1.335	ppb	301.7
18	MP Xylene	10.92	ppb	331.7

Notes

Billy Mitchell Air National
Guard Station
Mark Escobar
02-012PS 1'-3'

Time Printed: Nov 2,94 09:58

Sample Time: Nov 2,94 09:49

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mV*Sec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Area	1000	
Analysis Time	530.0	sec

Peak Report

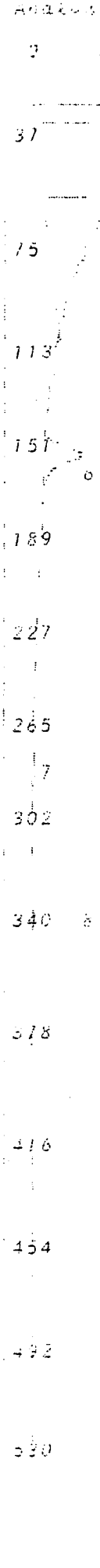
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	21.10 mVS	19.6
2	Unknown	29.12 mVS	21.3
3	Unknown	93.05 mVS	23.0
4	Unknown	197.7 mVS	27.7
5	Unknown	2.052 mVS	34.2
6	Unknown	42.56 mVS	44.2
7	Unknown	33.43 mVS	48.0
8	Unknown	54.65 mVS	53.4
9	Unknown	44.01 mVS	62.0
10	Benzene	107.1 ppb	71.3
11	Unknown	0.932 mVS	90.0
12	Unknown	1.138 mVS	99.0
13	Unknown	3.334 mVS	114.1
14	Toluene	1.591 ppb	145.2
15	Unknown	1.982 mVS	270.4
16	Ethylbenzene	0.399 ppb	308.8
17	MP Xylene	4.755 ppb	328.5

Notes

Kelly Mitchell Air National Guard Station

Mark Escobar

04-012PS 5'-7'



Slope Sen	0.500	mV/Sec
Slope Atten	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Sub Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	17.02 mVS	19.8
2	Unknown	40.89 mVS	21.5
3	Unknown	79.27 mVS	28.6
4	Unknown	0.700 mVS	44.2
5	Unknown	40.60 mVS	53.9
6	Toluene	1.264 ppb	147.4
7	Unknown	1.492 mVS	272.8
8	MP Xylene	3.488 ppb	332.8

Notes

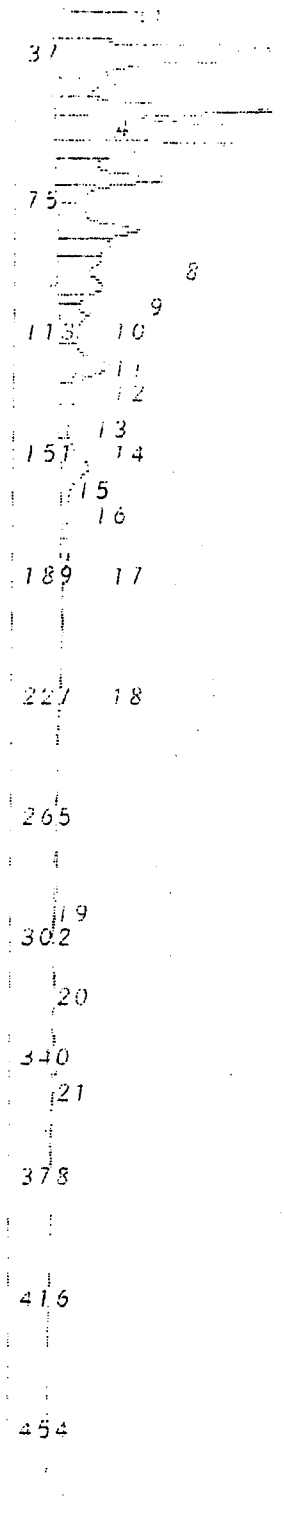
Kelly Mitchell Air National

Guard Station

Hook Louisiana

02-11PS 11-2

Analysis #12 [illegible] Report



Time Printed: Mon 2.94 10:46
Sample Time: Mon 2.94 10:37

Slope Up	1.500	mV/sec
Slope Down	1.500	mV/sec
Min Area	0.000	mV*sec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	73.34	mVS	20.0
2	Unknown	66.85	mVS	28.8
3	Unknown	59.09	mVS	32.0
4	Unknown	27.58	mVS	37.6
5	Unknown	82.84	mVS	44.2
6	Unknown	57.09	mVS	49.8
7	Unknown	71.12	mVS	53.8
8	Unknown	65.77	mVS	63.0
9	Benzene	27.19	ppb	76.5
10	Unknown	24.91	mVS	80.8
11	Unknown	19.04	mVS	84.8
12	Unknown	35.15	mVS	91.6
13	Unknown	25.46	mVS	100.9
14	Unknown	42.89	mVS	115.4
15	Unknown	16.39	mVS	126.9
16	Toluene	37.11	ppb	147.8
17	Unknown	10.05	mVS	175.4
18	Unknown	1.625	mVS	214.8
19	Unknown	4.002	mVS	279.4
20	Ethylbenzene	2.165	ppb	311.4
21	MP Xylene	11.09	ppb	334.4

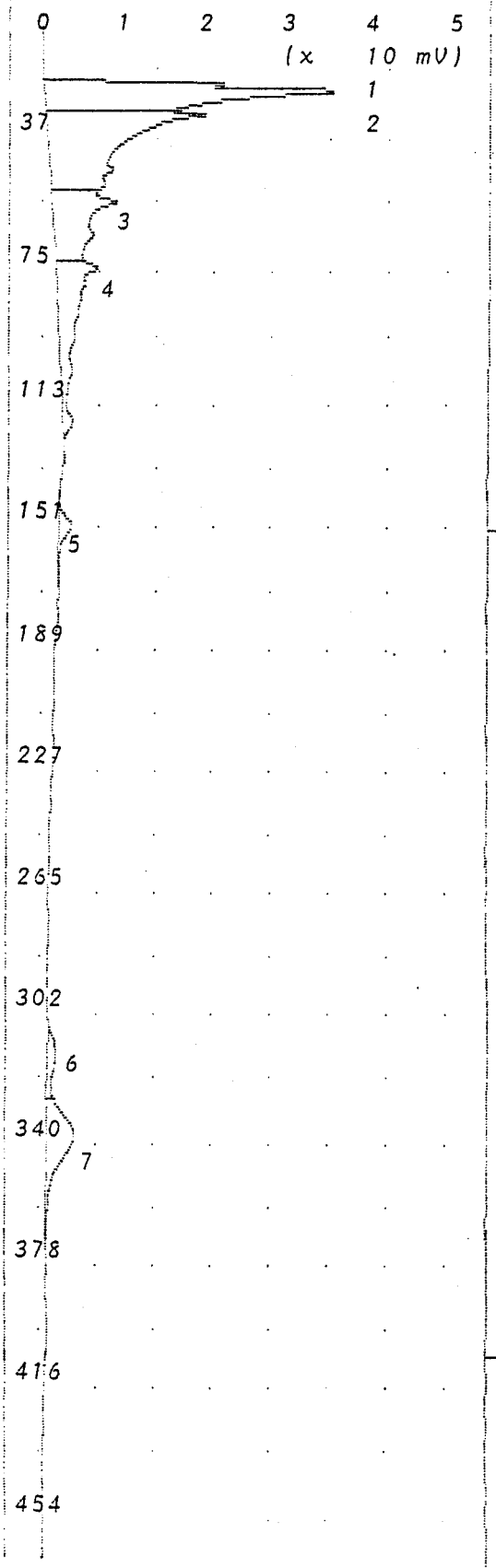
Notes

Billy Mitchell Air National Guard Station

Mark Escobar

4-013PS 5'-7'

Analysis #15 10S+ GC Function Analysis Report



Time Printed: Nov 1,94	14:48	
Sample Time: Nov 1,94	14:39	
Method		
Slope Up	3.000	mV/Sec
Slope Down	3.000	mV/Sec
Min Area	1.000	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

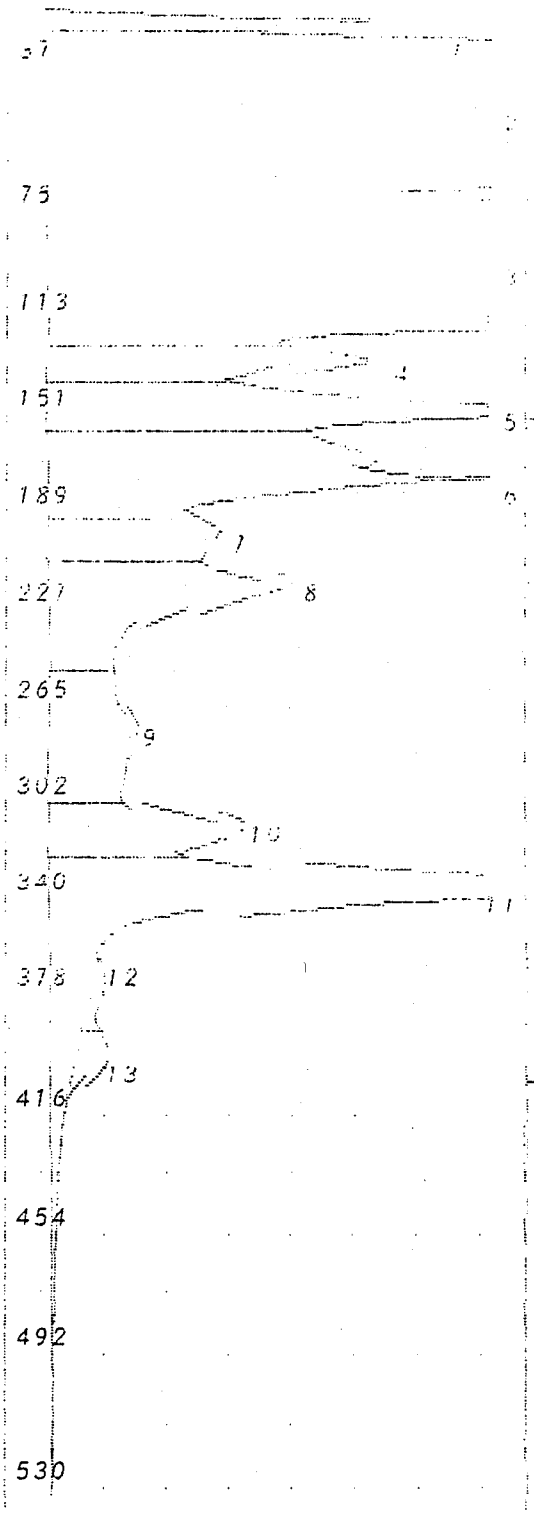
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	213.3 mVS	19.7
2	Unknown	224.4 mVS	28.5
3	Unknown	94.70 mVS	54.0
4	Benzene	68.35 ppb	72.1
5	Toluene	12.35 ppb	148.8
6	Ethylbenzene	28.98 ppb	308.2
7	MP Xylene	209.3 ppb	336.0

Notes

Billy Mitchell Air National
Guard Station
Mark Escobar
04-014PS 1'-3'

Analysis #17 105+ bit Function Analysis Report

Time Printed: Nov 1,94 15:20
Sample Time: Nov 1,94 15:01



Method

Slope Up	3.000	mV/Sec
Slope Down	3.000	mV/Sec
Min Area	1.000	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
R/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

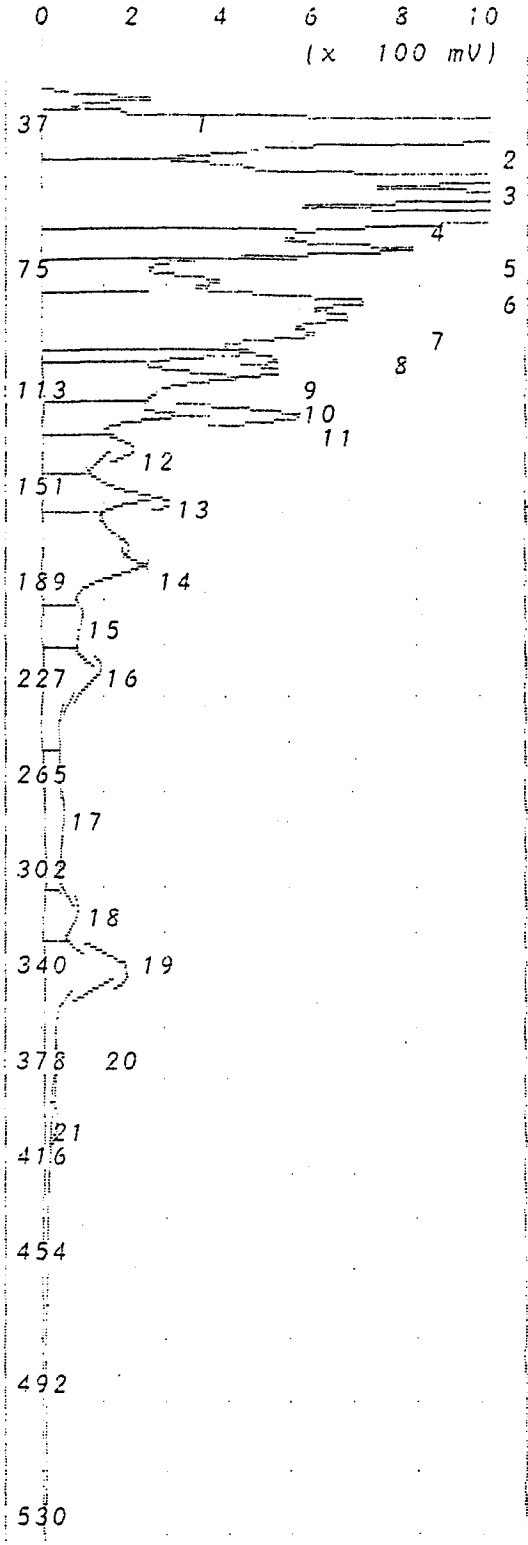
Pk	Compound Name	Area/Conc		R.T.
1	Unknown	2.390	VSec	23.4
2	Unknown	389.2	VSec	46.7
3	Unknown	469.4	VSec	95.2
4	Unknown	7.199	VSec	128.1
5	Toluene	11.69	ppm	149.2
6	Unknown	19.25	VSec	176.4
7	Unknown	6.532	VSec	196.2
8	Unknown	13.59	VSec	217.2
9	Unknown	8.923	VSec	271.4
10	Ethylbenzene	7.249	ppm	312.2
11	MP Xylene	100.1	ppm	336.0
12	Unknown	509.9	mVS	371.6
13	O Xylene	6.062	ppm	394.6

Notes

Billy Mitchell Air National
Guard Station
Mark Escobar

04-014PS 7'-9'
5X Dilution

Analysis #18 10S+ GC Function Analysis Report



Time Printed: Nov 1,94 15:32
Sample Time: Nov 1,94 15:23

Method

Slope Up	3.000	mV/Sec
Slope Down	3.000	mV/Sec
Min Area	1.000	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

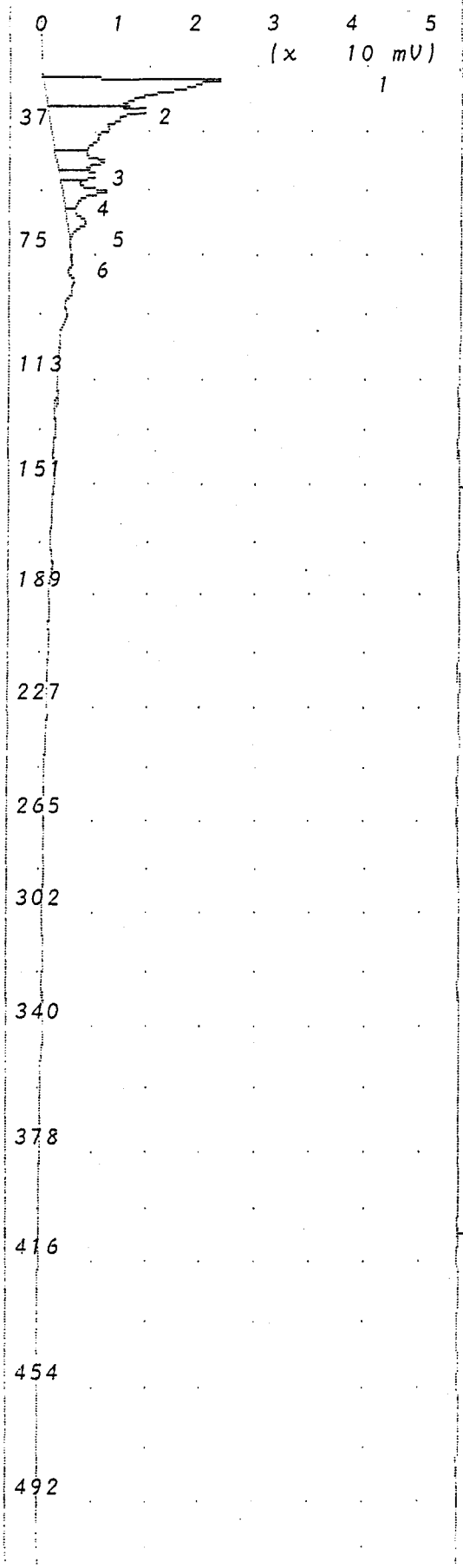
Pk	Compound Name	Area/Conc		R.T.
1	Unknown	676.4	mVS	23.4
2	Unknown	26.41	VSec	32.3
3	Unknown	3.257	VSec	45.4
4	Unknown	2.531	VSec	46.9
5	Unknown	6.555	VSec	49.8
6	Unknown	8.903	VSec	55.2
7	Unknown	4.745	VSec	63.4
8	Benzene	5.537	ppm	77.2
9	Unknown	2.765	VSec	92.4
10	Unknown	4.706	VSec	101.6
11	Unknown	5.098	VSec	116.5
12	Unknown	2.094	VSec	128.2
13	Toluene	1.044	ppm	149.0
14	Unknown	5.013	VSec	176.4
15	Unknown	1.478	VSec	195.8
16	Unknown	2.961	VSec	217.2
17	Unknown	2.116	VSec	271.4
18	Ethylbenzene	549.8	ppb	312.2
19	MP Xylene	13.26	ppm	333.0
20	Unknown	80.72	mVS	371.6
21	O Xylene	248.6	ppb	393.6

Notes

Billy Mitchell Air National
Guard Station
Mark Escobar
04-014PS 7'-9'

20X Dilution

Analysis #16 10S+ GC Function Analysis Report



Time Printed: Nov 1,94 14:59
Sample Time: Nov 1,94 14:50

Method

Slope Up	3.000	mV/Sec
Slope Down	3.000	mV/Sec
Min Area	1.000	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

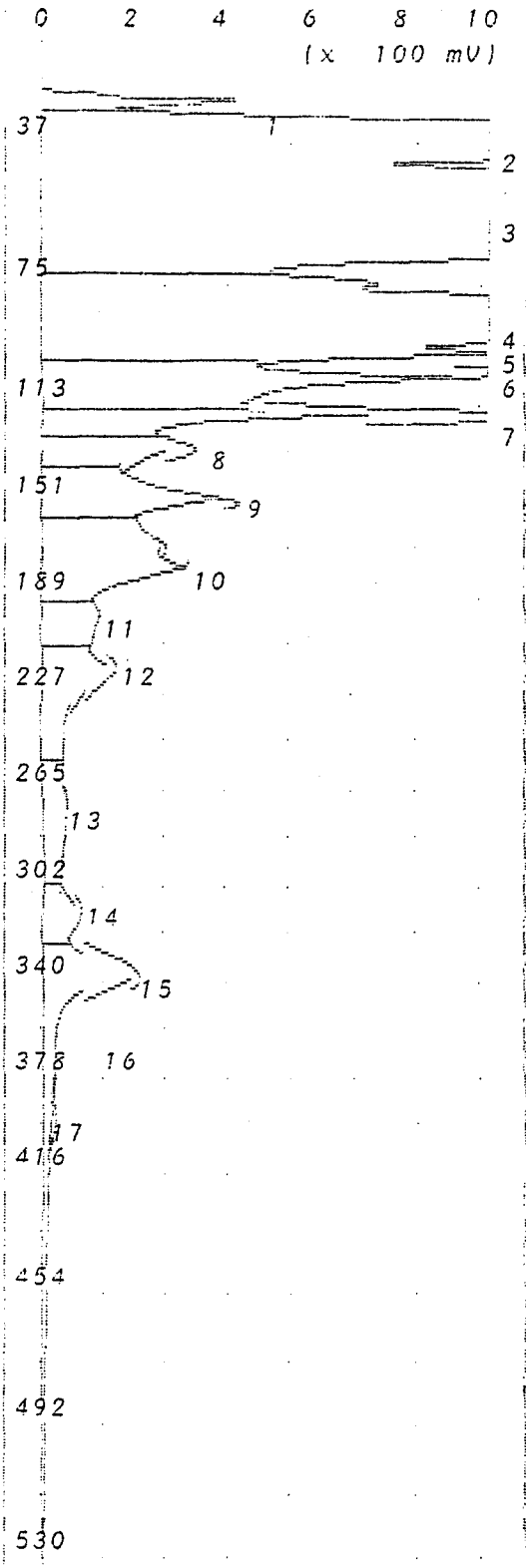
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	140.6 mVS	19.8
2	Unknown	103.3 mVS	29.0
3	Unknown	29.64 mVS	44.6
4	Unknown	14.15 mVS	48.6
5	Unknown	25.49 mVS	54.0
6	Unknown	14.16 mVS	63.1

Notes

Billy Mitchell Air National
Guard Station
Mark Escobar
04-015PS 1'-3'

Analysis #19 10S+ GC Function Analysis Report



Time Printed: Nov 1,94 15:44
Sample Time: Nov 1,94 15:35

Method

Slope Up	3.000	mV/Sec
Slope Down	3.000	mV/Sec
Min Area	1.000	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	1.321	VSec	24.1
2	Unknown	45.78	VSec	34.4
3	Unknown	222.7	VSec	53.4
4	Unknown	24.90	VSec	82.0
5	Unknown	5.154	VSec	92.9
6	Unknown	11.69	VSec	102.1
7	Unknown	9.237	VSec	117.0
8	Unknown	3.752	VSec	128.8
9	Toluene	2.718	ppm	149.6
10	Unknown	7.340	VSec	177.0
11	Unknown	1.883	VSec	196.4
12	Unknown	4.332	VSec	217.6
13	Unknown	2.327	VSec	271.4
14	Ethylbenzene	618.6	ppb	312.8
15	MP Xylene	15.86	ppm	337.0
16	Unknown	36.82	mVS	371.0
17	O Xylene	250.9	ppb	395.0

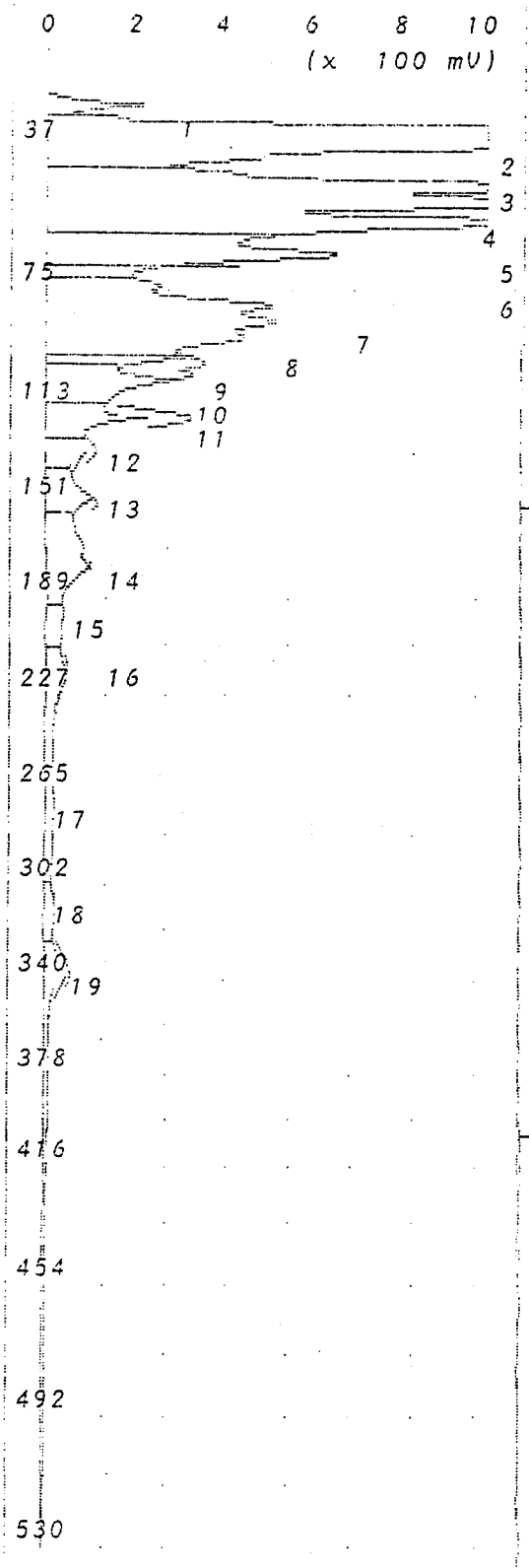
Notes

Billy Mitchell Air National Guard Station

Mark Escobar
04-015PS 3'-5'

20X Dilution

Analysis #22 10S+ GC Function Analysis Report



Time Printed: Nov 1,94 16:20
Sample Time: Nov 1,94 16:11

Method

Slope Up	3.000	mV/Sec
Slope Down	3.000	mV/Sec
Min Area	1.000	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	35	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	582.0	mVS	23.5
2	Unknown	26.27	VSec	32.4
3	Unknown	3.386	VSec	45.7
4	Unknown	2.695	VSec	47.2
5	Unknown	3.902	VSec	49.9
6	Unknown	7.584	VSec	55.0
7	Unknown	3.949	VSec	63.6
8	Unknown	8.245	VSec	81.4
9	Unknown	1.775	VSec	92.5
10	Unknown	2.934	VSec	101.7
11	Unknown	3.047	VSec	116.8
12	Unknown	1.237	VSec	128.6
13	Toluene	493.8	ppb	149.2
14	Unknown	2.452	VSec	176.8
15	Unknown	573.5	mVS	195.8
16	Unknown	1.486	VSec	217.4
17	Unknown	823.9	mVS	270.9
18	Ethylbenzene	249.8	ppb	313.0
19	MP Xylene	1.972	ppm	336.3

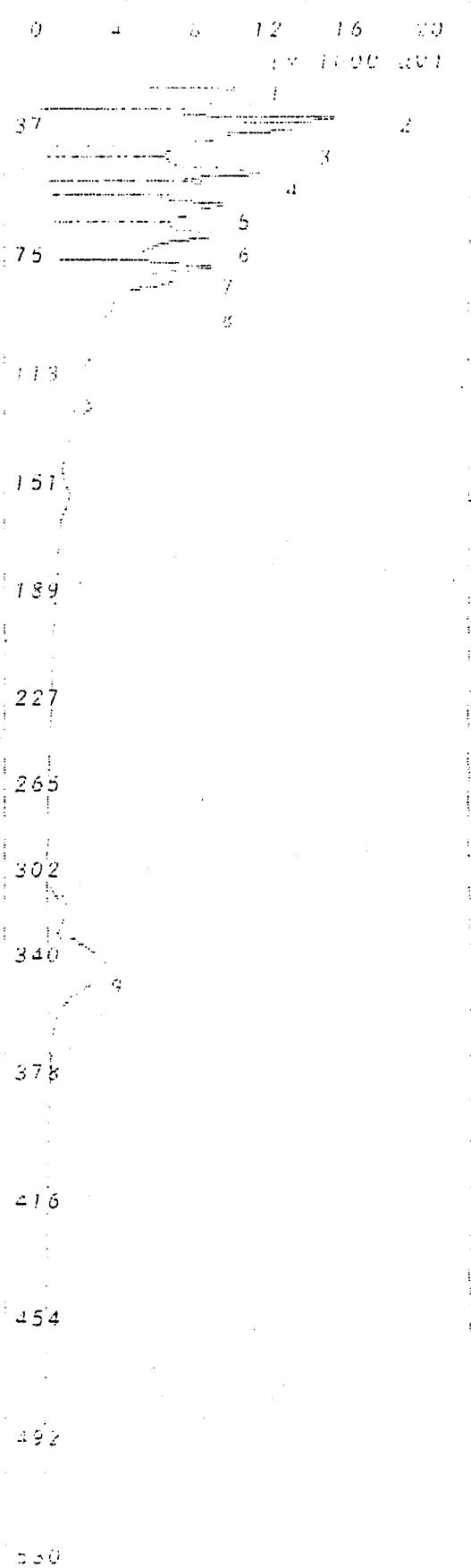
Notes

Billy Mitchell Air National
Guard Station

Mark Escobar
04-015PS 3'-5'

50X Dilution

Analysis #22 10S+ GC Function Analysis Report



Time Printed: Nov 2.94 15:32
Sample Time: Nov 2.94 15:23

Method

Slope Up	3.000	mV/Sec
Slope Down	3.000	mV/Sec
Min Area	1.000	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	mL/min
H2 Flow	10	mL/min
Aux Flow	0	mL/min
Oven Temp	40	C
Amb Temp	24	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	62.99	mVS	19.6
2	Unknown	56.35	mVS	28.9
3	Unknown	76.62	mVS	32.0
4	Unknown	58.60	mVS	44.6
5	Unknown	27.64	mVS	48.8
6	Unknown	56.26	mVS	54.2
7	Unknown	61.49	mVS	63.0
8	Benzene	58.26	ppb	72.1
9	MP Xylene	107.7	ppb	337.3

Notes

Billy Mitchell Air National
Guard Station
Mark Escobar
04-016PS 1'-3'

Analysis #22 HP5890 GC Summation Analysis Report

Time Printed: Nov 2,94 14:35
Sample Time: Nov 2,94 14:26

Method

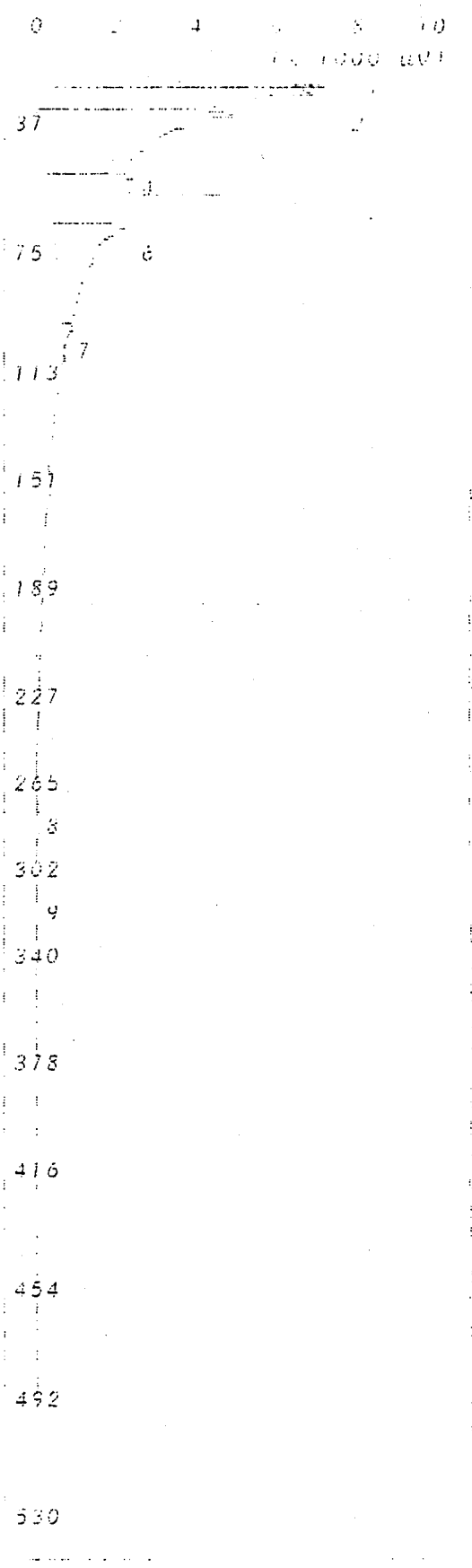
Slope Up	3.000	mV/Sec
Slope Down	3.000	mV/Sec
Min Area	1.000	mVsec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
H/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pe	Compound Name	Area/Conc		R.T.
1	Unknown	702.7	mVS	19.4
2	Unknown	4.064	mVS	28.5

Notes

Billy Mitchell Air National
Guard Station
Mark Escobar
04-01/PS 3'-5'



Time Printed: Nov 2.94 10:58
Sample Time: Nov 2.94 10:49

Method

Slope Up	0.500	mV/Sec
Slope Down	[illegible]	mV/Sec
[illegible]	[illegible]	[illegible]
Min Height	[illegible]	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/P Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	24	C
Max Gain	1000	
Analysis Time	530.0	sec

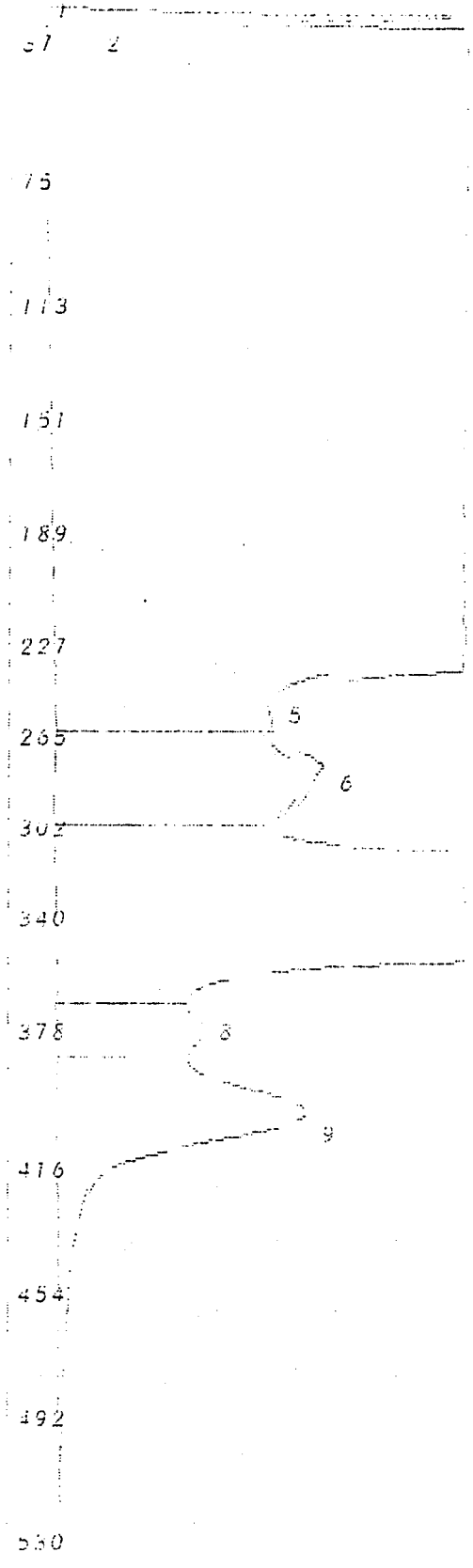
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	13.67	mVS	19.4
2	Unknown	36.70	mVS	22.2
3	Unknown	58.28	mVS	28.4
4	Unknown	8.531	mVS	48.1
5	Unknown	30.01	mVS	53.5
6	Unknown	24.11	mVS	62.1
7	Unknown	1.009	mVS	89.8
8	Unknown	1.760	mVS	276.2
9	Ethylbenzene	1.099	ppb	308.2

Notes

Billy Mitchell Air National
Guard Station
Mark Escobar
04-018PS 1'-3'

Analysis File TOS+ GC Function Analysis Report



Time Printed: Nov 2,94 11:10
Sample Time: Nov 2,94 11:01

Method

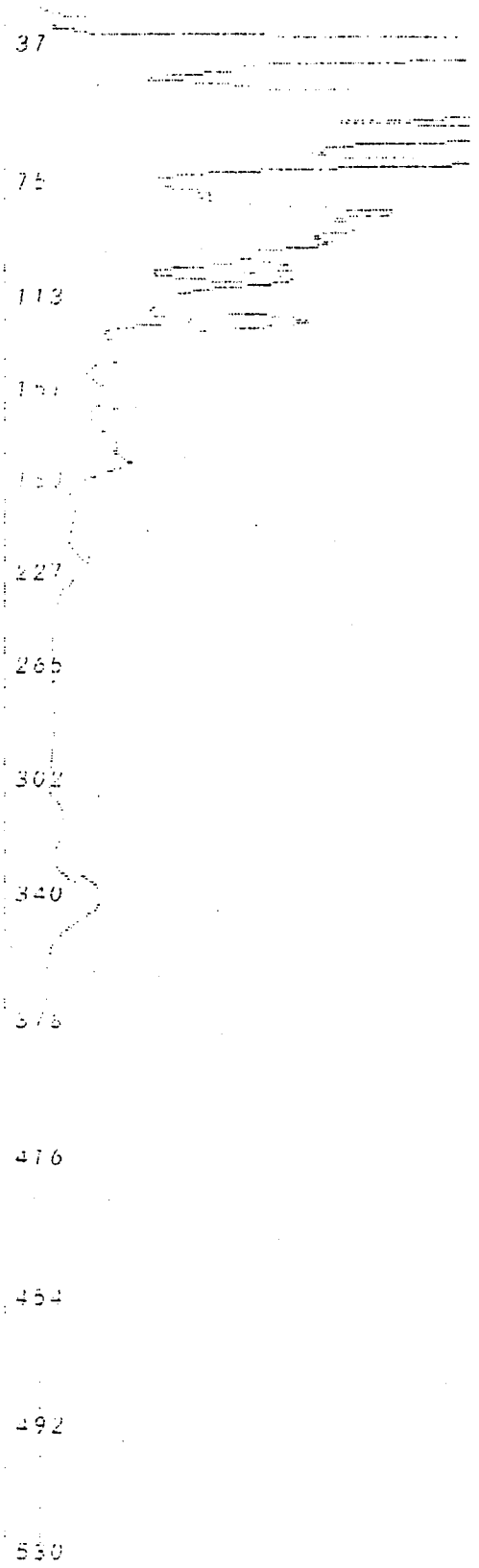
Slope Up	1.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	14	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

PR	Compound Name	Area/Conc		R.T.
1	Unknown	0.450	mVS	17.9
2	Unknown	15.78	mVS	19.4
3	Unknown	3.111	VSec	23.4
4	Unknown	8072.	VSec	89.0
5	Unknown	56.96	mVS	248.5
6	Unknown	22.80	VSec	270.4
7	MP Xylene	269.4	ppm	324.2
8	Unknown	6.383	VSec	370.3
9	O Xylene	61.41	ppm	393.6

Notes

Billy Mitchell Air National
Guard Station
Mark Escobar
04-018PS 5'-7'
2X Dilution



Time Printed: Nov 2.94 11:29

Sample Time: Nov 2.94 11:13

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
H/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

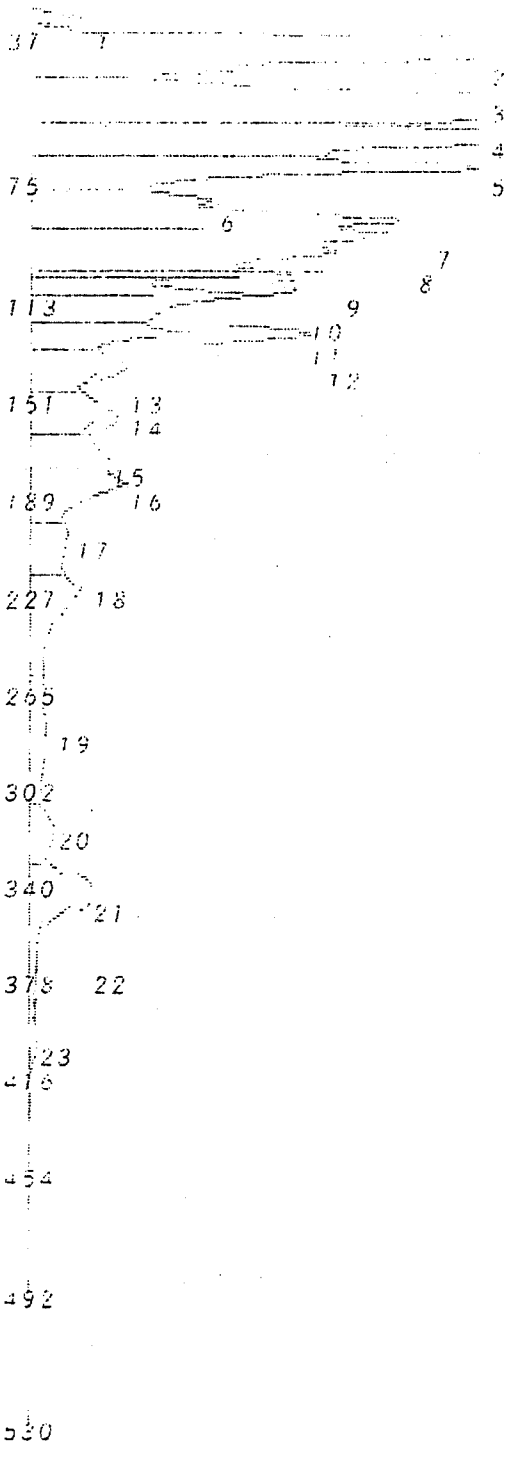
Pk	Compound Name	Area/Conc	R.T.

Note

Barry Mitchell Air National
Guard Station
Mark Escobar
04-018PS 5'-7'
25X Dilution

Analysis #15 GC Integration Analysis Report

Time Printed: Nov 2,94 11:26
Sample Time: Nov 2,94 11:13



Slope Up	3.000	mV/Sec
Slope Down	3.000	mV/Sec
Min Area	1.000	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

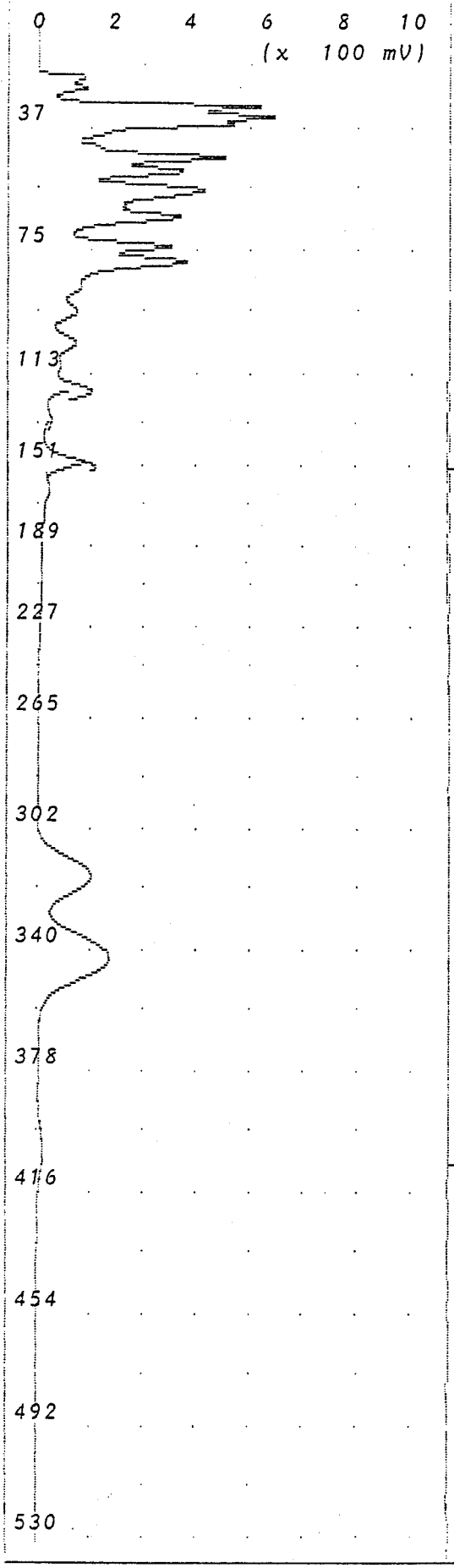
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	298.4	mVS	23.8
2	Unknown	25.48	VSec	32.4
3	Unknown	17.03	VSec	47.8
4	Unknown	13.73	VSec	55.6
5	Unknown	5.433	VSec	63.4
6	Benzene	541.0	ppb	72.0
7	Unknown	3.851	VSec	77.2
8	Unknown	3.572	VSec	81.2
9	Unknown	3.007	VSec	85.4
10	Unknown	3.719	VSec	92.2
11	Unknown	5.676	VSec	101.3
12	Unknown	5.035	VSec	116.2
13	Unknown	2.502	VSec	128.0
14	Toluene	1.045	ppm	148.0
15	Unknown	2.510	VSec	166.6
16	Unknown	2.765	VSec	175.8
17	Unknown	1.696	VSec	194.8
18	Unknown	2.932	VSec	216.2
19	Unknown	1.761	VSec	269.6
20	Ethylbenzene	580.8	ppb	310.9
21	MP Xylene	7.003	ppm	334.4
22	Unknown	47.16	mVS	369.3
23	O Xylene	314.0	ppb	392.3

Notes

Kelly Mitchell Air National Guard Station
Mark Escobar
94-018PS 5'-7'
20X Dilution

Analysis #13 10S+ GC Function Analysis Report



Time Printed: Oct 26,94 14:39
Sample Time: Oct 26,94 14:30

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

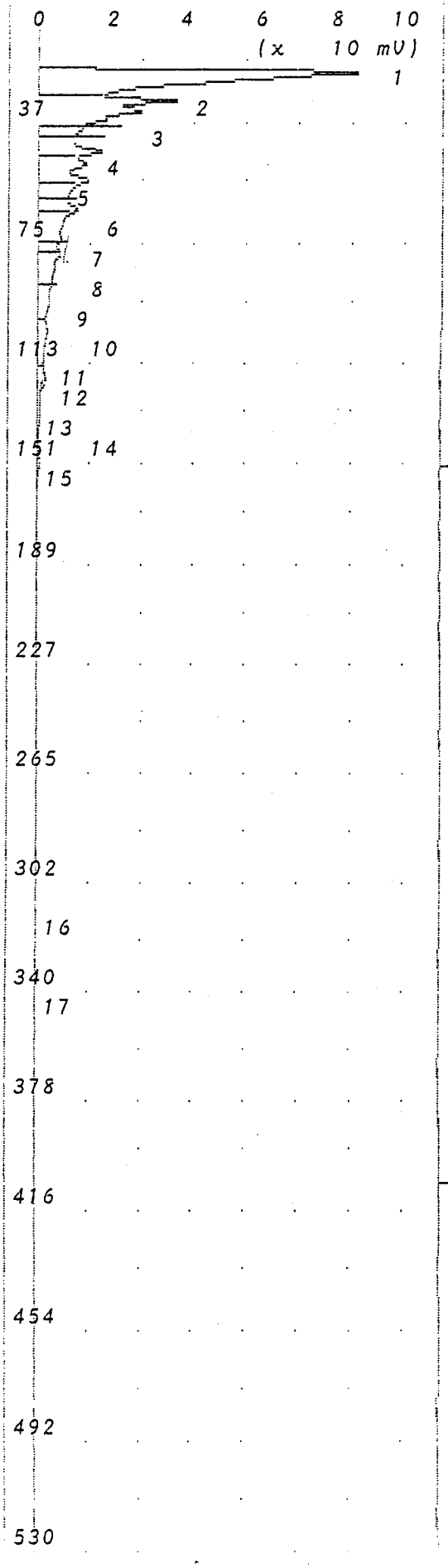
Peak Report

Pk	Compound Name	Area/Conc	R.T.

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
04-019PS 1'-3'

Analysis #14 10S+ GC Function Analysis Report



Time Printed: Oct 26,94 14:49
Sample Time: Oct 26,94 14:41

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

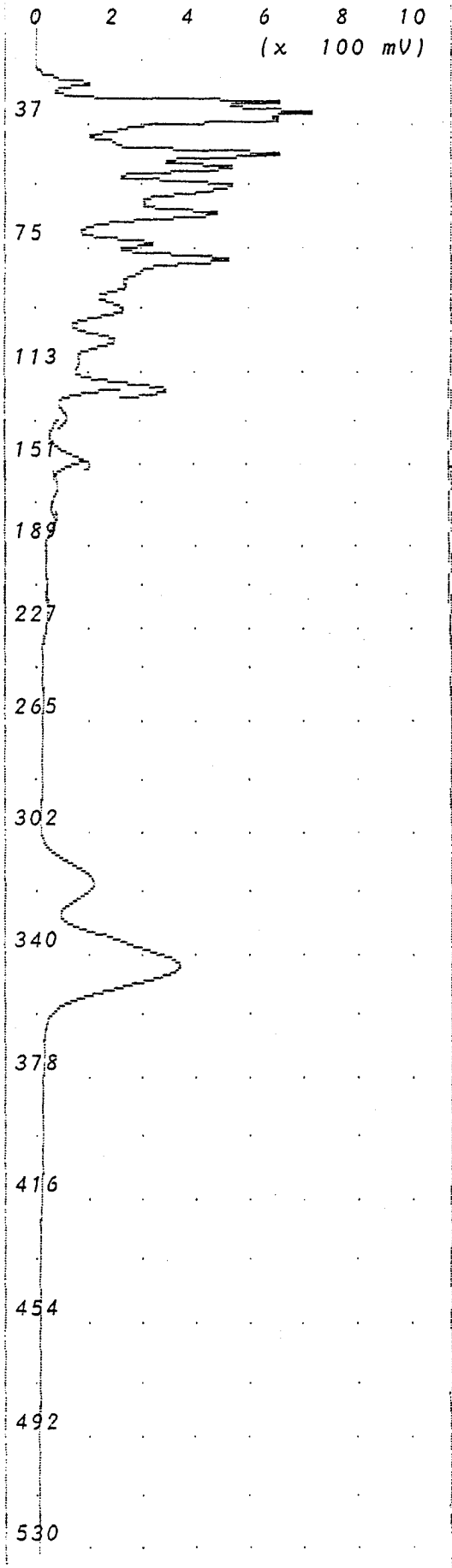
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	422.1	mVS	19.6
2	Unknown	96.02	mVS	28.6
3	Unknown	77.57	mVS	31.6
4	Unknown	92.43	mVS	34.2
5	Unknown	21.17	mVS	40.8
6	Unknown	67.77	mVS	44.3
7	Unknown	56.50	mVS	48.3
8	Unknown	104.0	mVS	53.7
9	Unknown	0.053	mVS	59.7
10	Unknown	88.45	mVS	62.5
11	Benzene	26.30	ppb	71.4
12	Unknown	129.8	mVS	76.2
13	Unknown	57.67	mVS	100.9
14	Unknown	94.32	mVS	116.1
15	Toluene	153.6	ppb	148.6
16	Ethylbenzene	20.67	ppb	315.2
17	MP Xylene	70.73	ppb	338.6

Notes

Mark Escobar
Billy Mitchell Air National Guard Base
04-019PS 5'-7'

Analysis #9 10S+ GC Function Analysis Report



Time Printed: Oct 26,94 13:52
Sample Time: Oct 26,94 13:44

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

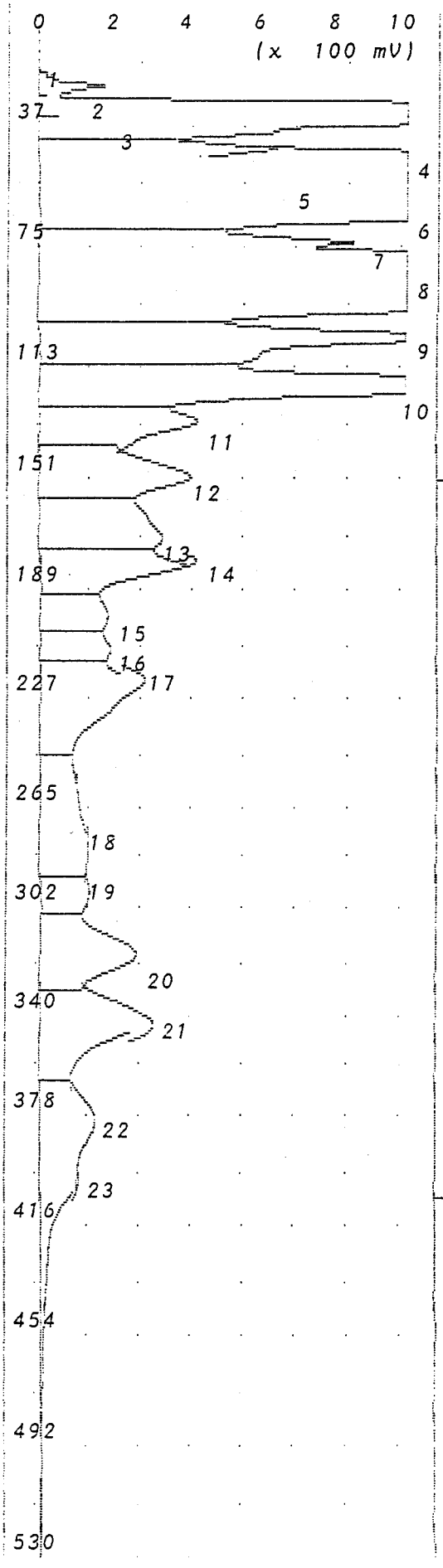
Peak Report

Pk	Compound Name	Area/Conc	R.T.

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
04-020PS 1'-3'

Analysis #12 10S+ GC Function Analysis Report



Time Printed: Oct 26,94 14:27
Sample Time: Oct 26,94 14:18

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

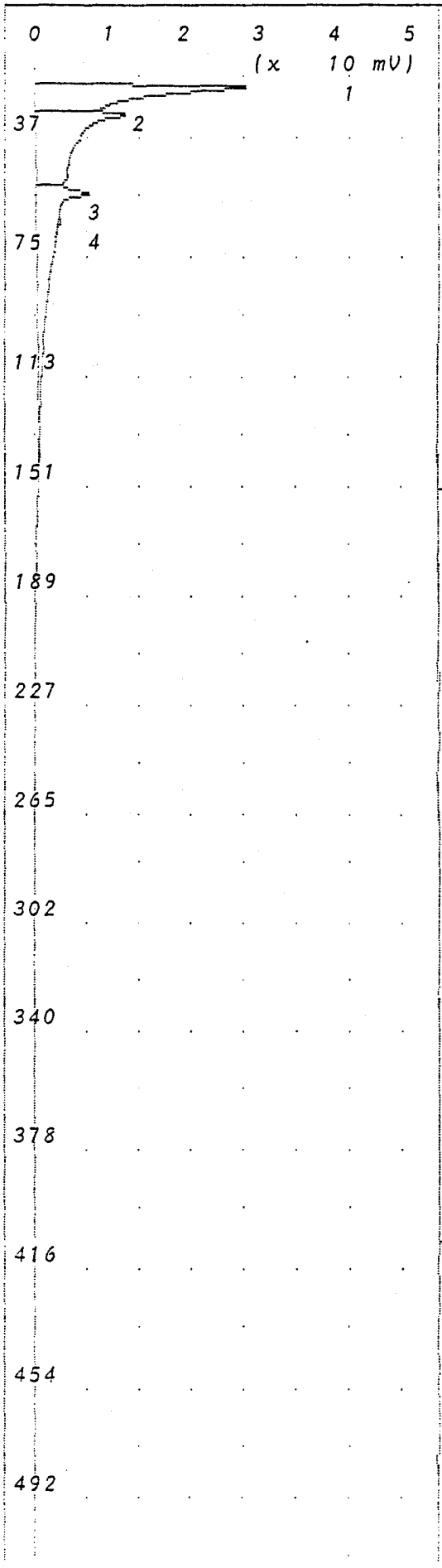
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	1.197	mVS	17.7
2	Unknown	33.67	mVS	19.0
3	Unknown	587.4	mVS	22.8
4	Unknown	37.80	VSec	31.4
5	Unknown	113.2	mVS	36.9
6	Unknown	105.1	VSec	53.6
7	Benzene	800.5	ppb	71.8
8	Unknown	97.99	VSec	84.4
9	Unknown	11.52	VSec	102.0
10	Unknown	15.17	VSec	117.0
11	Unknown	4.873	VSec	128.1
12	Toluene	2.185	ppm	148.6
13	Unknown	4.823	VSec	167.6
14	Unknown	5.431	VSec	178.0
15	Unknown	2.122	VSec	195.0
16	Unknown	1.801	VSec	206.2
17	Unknown	6.326	VSec	219.0
18	Unknown	5.143	VSec	277.3
19	Unknown	1.897	VSec	295.4
20	Ethylbenzene	1.685	ppm	315.4
21	MP Xylene	4.925	ppm	341.3
22	Unknown	6.493	VSec	378.0
23	O Xylene	14.12	ppb	395.6

Notes

Mark Escobar
Billy Mitchell Air National Guard Base
04-020PS 5'-7'

Analysis #15 10S+ GC Function Analysis Report



Time Printed: Oct 26,94 15:01
Sample Time: Oct 26,94 14:52

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

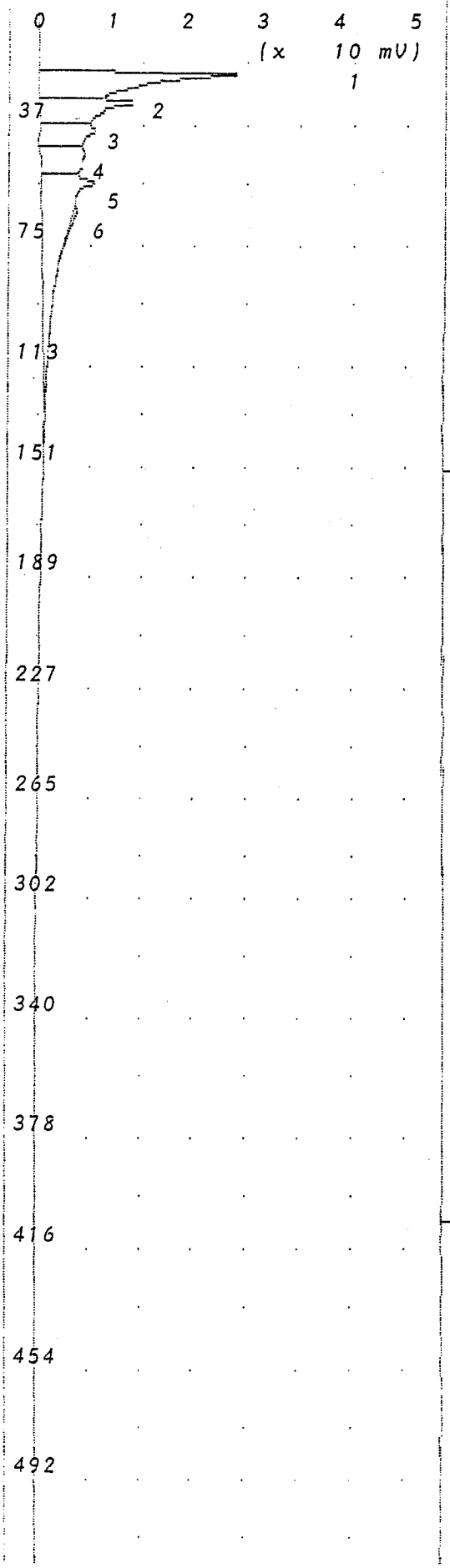
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	142.1 mVS	18.7
2	Unknown	146.9 mVS	28.1
3	Unknown	135.5 mVS	53.2
4	Unknown	0.602 mVS	62.2

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
04-021PS 1'-3'

Analysis #16 10S+ GC Function Analysis Report



Time Printed: Oct 26,94 15:12
Sample Time: Oct 26,94 15:03

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

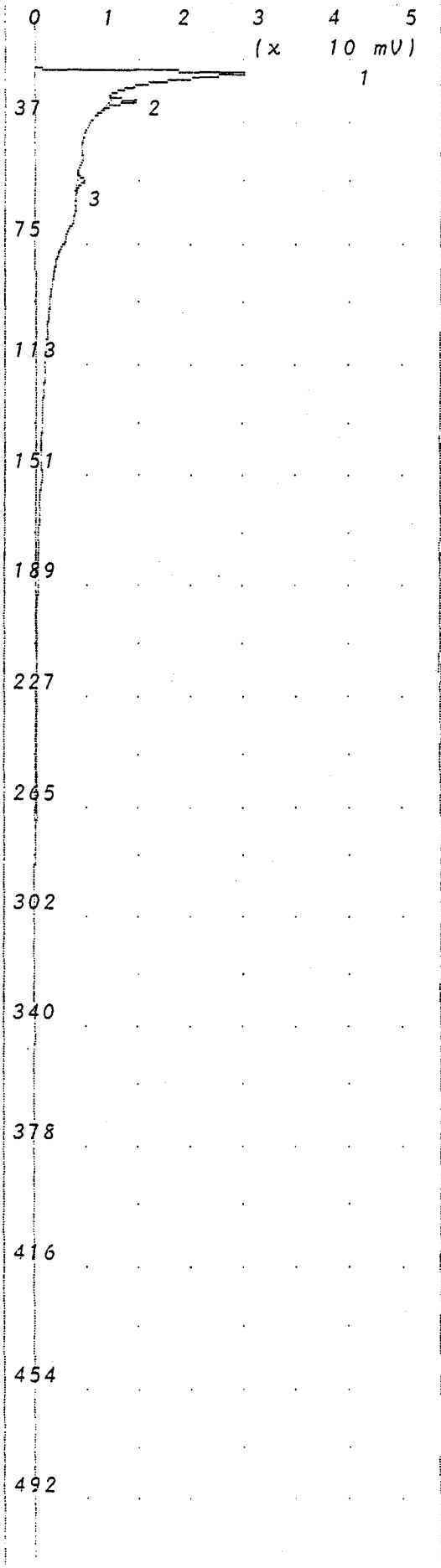
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	132.3 mVS	18.8
2	Unknown	75.51 mVS	28.2
3	Unknown	45.47 mVS	37.1
4	Unknown	50.43 mVS	44.0
5	Unknown	169.9 mVS	53.5
6	Unknown	2.623 mVS	62.3

Notes

Mark Escobar
Billy Mitchell Air National Guard Base
04-021PS 5'-7'

Analysis #9 10S+ GC Function Analysis Report



Time Printed: Oct 28,94 12:23
Sample Time: Oct 28,94 12:14

Method

Slope Up	0.500	mV/Sec
Slope Down	0.500	mV/Sec
Min Area	200.0	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

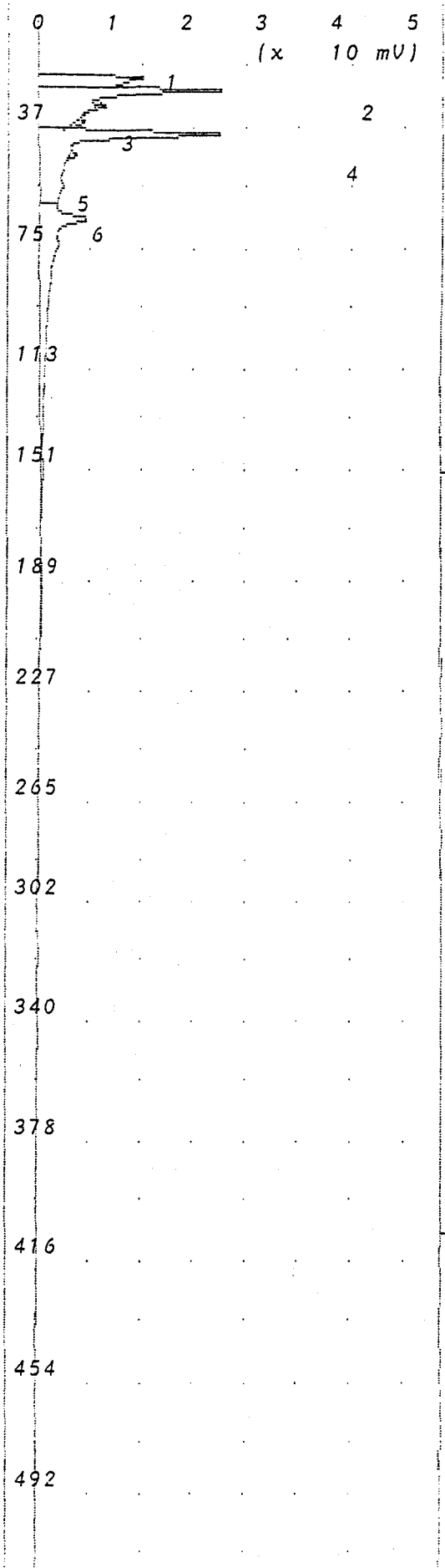
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	618.5 mVS	19.3
2	Unknown	5.799 mVS	28.5
3	Unknown	2.071 mVS	53.8

Notes

Mark Escobar
Billy Mitchell Air
National Guard Base
04-022PS 1'-3'

Analysis #12 10S+ GC Function Analysis Report



Time Printed: Oct 28,94 12:59
Sample Time: Oct 28,94 12:50

Method

Slope Up	0.500	mV/Sec
Slope Down	0.500	mV/Sec
Min Area	200.0	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

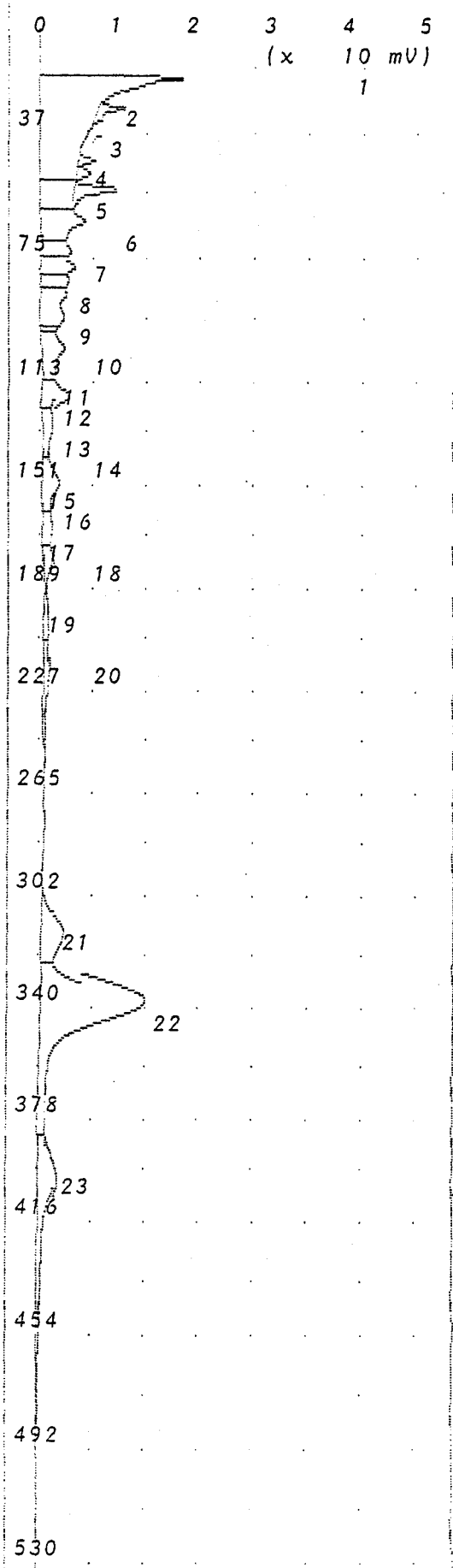
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	48.20	mVS	19.6
2	Unknown	120.2	mVS	23.5
3	Unknown	1.517	mVS	28.7
4	Unknown	129.1	mVS	37.0
5	Unknown	1.809	mVS	43.7
6	Unknown	127.3	mVS	63.7

Notes

Mark Escobar
Billy Mitchell Air
National Guard Base
04-022PS 5'-7'

Analysis #5 10S+ GC Function Analysis Report



Time Printed: Oct 27,94 10:52
Sample Time: Oct 27,94 10:43

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

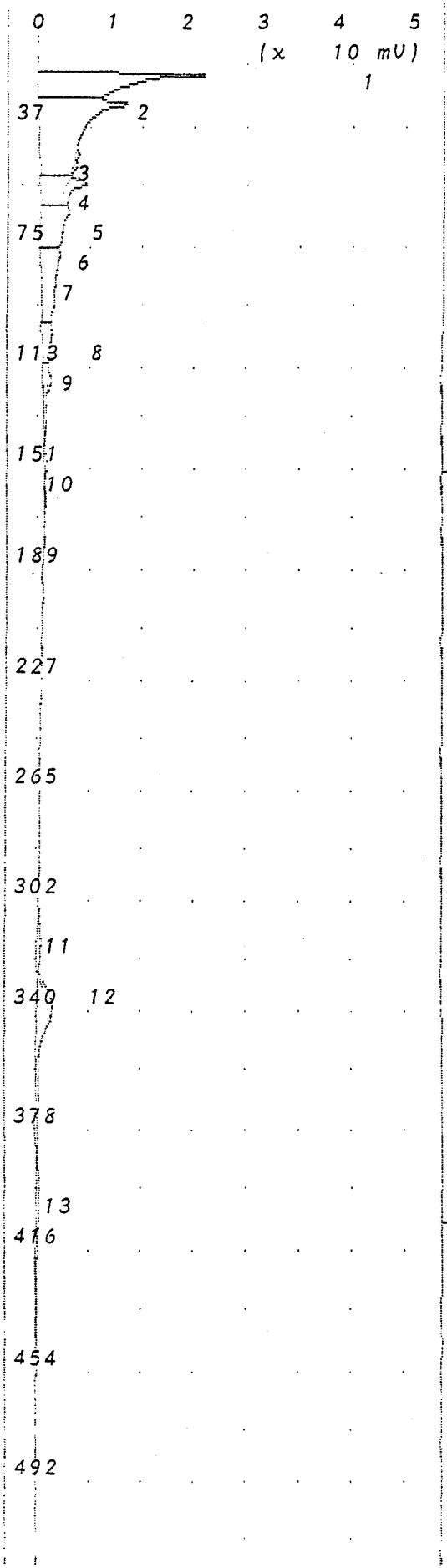
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	259.0	mVS	18.6
2	Unknown	6.191	mVS	28.0
3	Unknown	1.843	mVS	31.0
4	Unknown	5.018	mVS	43.6
5	Unknown	4.535	mVS	47.6
6	Unknown	53.96	mVS	52.8
7	Unknown	44.97	mVS	61.8
8	Benzene	1.172	ppb	71.0
9	Unknown	20.35	mVS	75.7
10	Unknown	15.58	mVS	79.8
11	Unknown	15.76	mVS	84.1
12	Unknown	21.06	mVS	91.0
13	Unknown	31.83	mVS	100.2
14	Unknown	28.95	mVS	115.3
15	Unknown	16.56	mVS	127.2
16	Toluene	3.246	ppb	144.0
17	Unknown	13.97	mVS	165.2
18	Unknown	16.77	mVS	173.2
19	Unknown	9.579	mVS	196.2
20	Unknown	14.48	mVS	216.2
21	Ethylbenzene	8.708	ppb	312.0
22	MP Xylene	144.0	ppb	335.7
23	O Xylene	66.67	ppb	398.3

Notes

Mark Escobar
Billy Mitchell Air National Guard Base
04-023PS 1'-3'

Analysis #6 10S+ GC Function Analysis Report



Time Printed: Oct 27,94 11:09
Sample Time: Oct 27,94 11:00

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

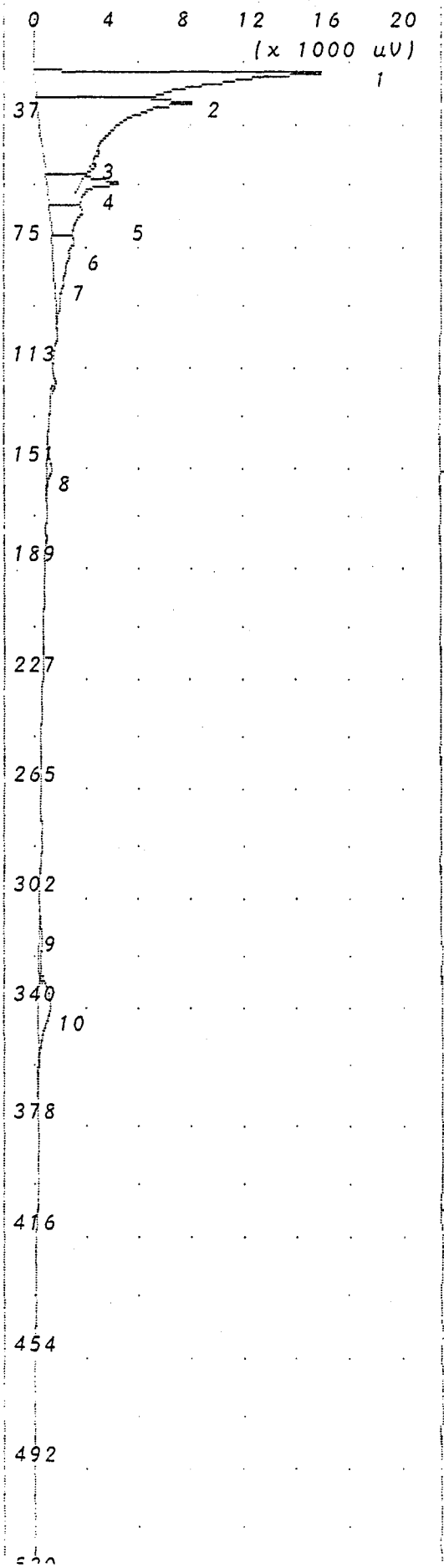
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	112.0	mVS	18.8
2	Unknown	154.1	mVS	28.1
3	Unknown	1.205	mVS	43.8
4	Unknown	1.506	mVS	47.6
5	Unknown	43.53	mVS	52.9
6	Unknown	43.81	mVS	62.0
7	Benzene	2.967	ppb	75.3
8	Unknown	14.26	mVS	100.2
9	Unknown	17.90	mVS	114.0
10	Toluene	0.424	ppb	148.4
11	Ethylbenzene	1.161	ppb	312.8
12	MP Xylene	21.57	ppb	332.2
13	O Xylene	7.894	ppb	398.0

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
04-023PS 3'-5' MS/MSD

Analysis #7 10S+ GC Function Analysis Report



Time Printed: Oct 27,94 11:24
Sample Time: Oct 27,94 11:15

Method

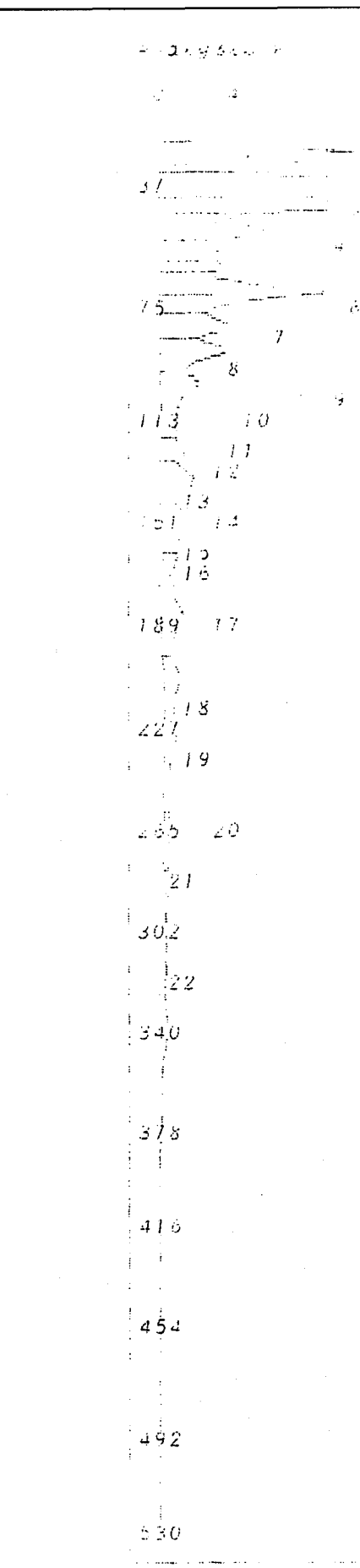
Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	85.64	mVS	19.3
2	Unknown	98.71	mVS	28.4
3	Unknown	0.360	mVS	43.9
4	Unknown	0.513	mVS	47.7
5	Unknown	23.61	mVS	53.3
6	Unknown	13.42	mVS	62.3
7	Benzene	1.047	ppb	71.3
8	Toluene	0.194	ppb	148.6
9	Ethylbenzene	0.313	ppb	313.8
10	MP Xylene	5.690	ppb	337.0

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
04-023PS 5'-7'



Slope Up	2.000	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mV*Sec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	20.0	%
Det Flow	12	mL/min
B/F Flow	12	mL/min
Aux Flow	0	mL/min
Oven Temp	40	C
Amb Temp	32	C
Mix Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	4.759	mVS	17.8
2	Unknown	19.02	mVS	19.7
3	Unknown	10.88	mVS	21.4
4	Unknown	35.51	mVS	22.6
5	Unknown	48.62	mVS	28.7
6	Unknown	38.60	mVS	37.8
7	Unknown	41.86	mVS	44.2
8	Unknown	27.56	mVS	53.3
9	Unknown	61.16	mVS	62.8
10	Benzene	12.99	ppb	74.2
11	Unknown	25.87	mVS	81.8
12	Unknown	27.95	mVS	90.4
13	Unknown	19.68	mVS	116.8
14	Unknown	23.12	mVS	126.9
15	Toluene	13.66	ppb	147.0
16	Unknown	7.735	mVS	156.0
17	Unknown	20.41	mVS	176.0
18	Unknown	14.38	mVS	202.0
19	Unknown	14.35	mVS	223.0
20	Unknown	4.202	mVS	252.2
21	Unknown	3.385	mVS	276.2
22	Ethylbenzene	0.696	ppb	309.3

Notes

Billy Mitchell Air National Guard Base

Mark Escobar
04-024PS 1'-3'

Sample Time: Nov 3,94 09:02

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.00	mV
Analysis Delay	0.0	sec
Window Percent	20.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	32	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

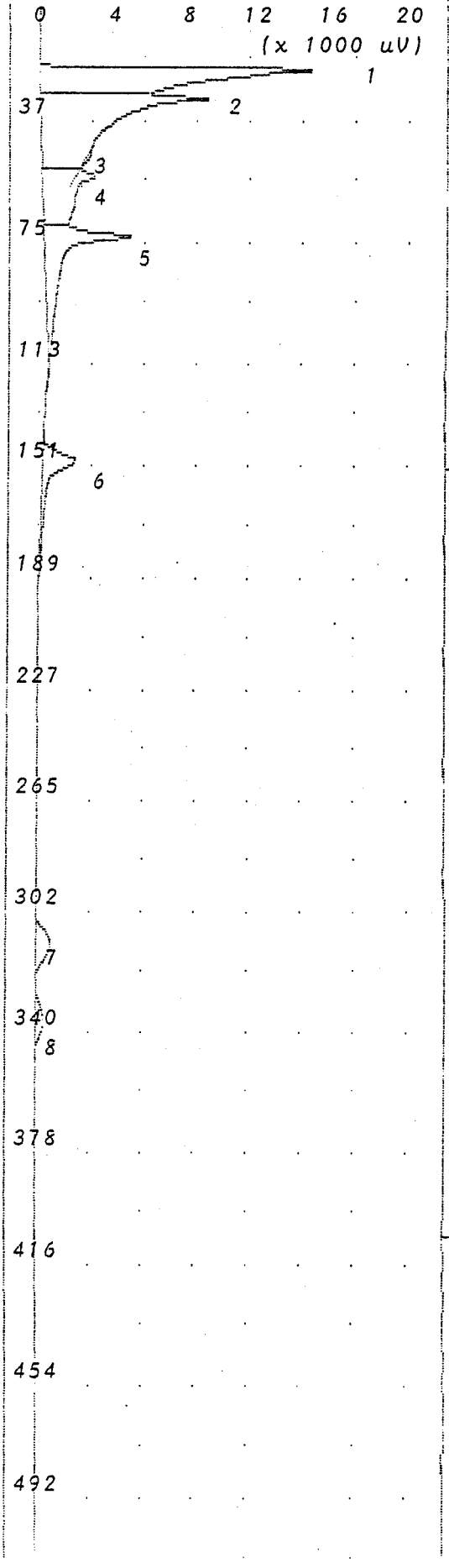
Pk	Compound Name	Area/Conc		R.T.
1	Unknown	10.54	mVS	18.4
2	Unknown	26.83	mVS	19.6
3	Unknown	9.313	mVS	21.6
4	Unknown	41.38	mVS	22.6
5	Unknown	54.33	mVS	28.7
6	Unknown	44.23	mVS	37.0
7	Unknown	15.40	mVS	44.3
8	Unknown	18.25	mVS	46.8
9	Unknown	18.55	mVS	53.9
10	Unknown	26.50	mVS	63.2
11	Benzene	5.120	ppb	72.0
12	Unknown	14.10	mVS	76.0
13	Unknown	12.47	mVS	81.7
14	Unknown	19.30	mVS	90.0
15	Unknown	0.299	mVS	100.0
16	Unknown	24.43	mVS	115.0
17	Unknown	0.466	mVS	126.0
18	Unknown	0.067	mVS	135.0
19	Toluene	11.81	ppb	146.2
20	Unknown	6.005	mVS	175.2
21	Unknown	1.174	mVS	201.2
22	MP Xylene	5.937	ppb	330.9

Notes

Billy Mitchell Air National Guard Base

Mark Escobar
04-024PS 3-5

Analysis #5 10S+ GC Function Analysis Report



Time Printed: Oct 29,94 09:22
Sample Time: Oct 29,94 09:13

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

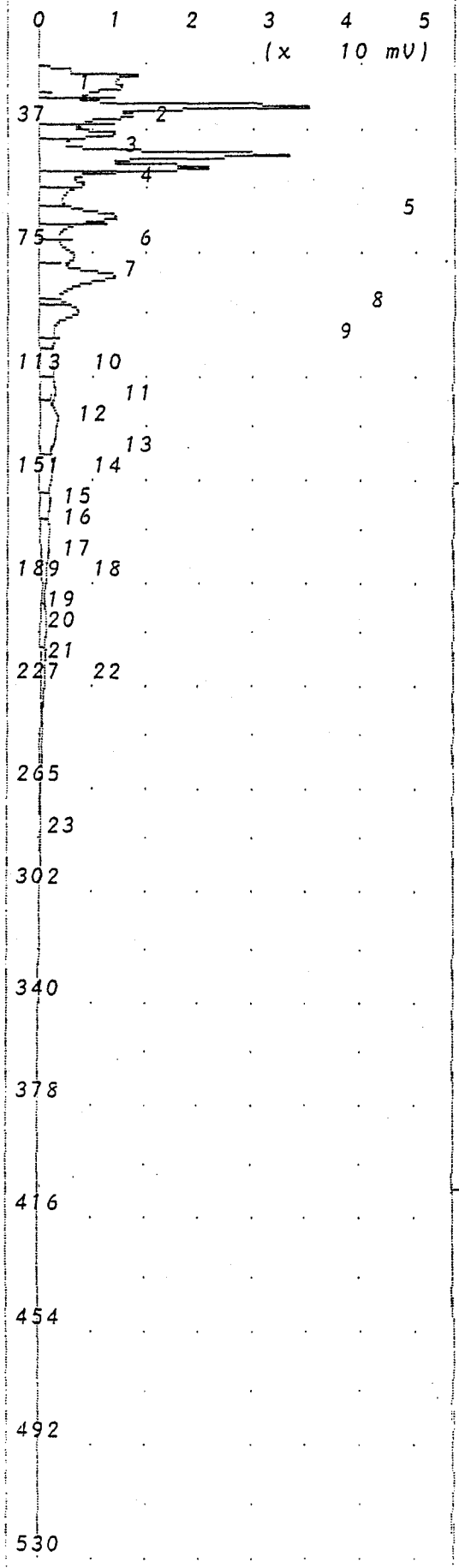
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	83.66	mVS	19.6
2	Unknown	97.58	mVS	28.4
3	Unknown	0.352	mVS	46.0
4	Unknown	32.76	mVS	53.0
5	Benzene	26.11	ppb	71.2
6	Toluene	20.64	ppb	147.0
7	Ethylbenzene	51.21	ppb	311.4
8	MP Xylene	111.8	ppb	334.6

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-025PS 1'-3'

Analysis #6 10S+ GC Function Analysis Report



Time Printed: Oct 29,94 09:33
Sample Time: Oct 29,94 09:24

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

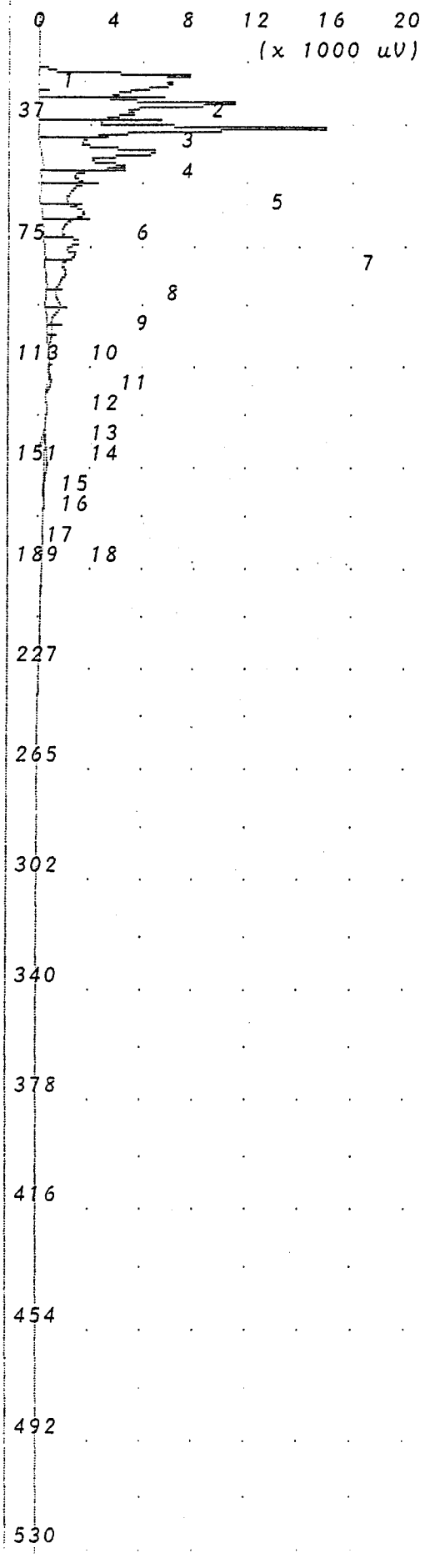
Pk	Compound Name	Area/Conc		R.T.
1	Unknown	5.674	mVS	17.5
2	Unknown	22.57	mVS	19.2
3	Unknown	10.42	mVS	21.0
4	Unknown	43.70	mVS	22.8
5	Unknown	77.69	mVS	27.8
6	Unknown	39.40	mVS	31.3
7	Unknown	35.65	mVS	36.9
8	Unknown	96.76	mVS	42.5
9	Unknown	68.04	mVS	47.0
10	Unknown	29.33	mVS	52.6
11	Unknown	62.23	mVS	62.3
12	Benzene	20.24	ppb	74.4
13	Unknown	58.39	mVS	80.5
14	Unknown	34.33	mVS	91.0
15	Unknown	15.04	mVS	99.3
16	Unknown	28.10	mVS	115.4
17	Unknown	31.50	mVS	123.4
18	Toluene	31.85	ppb	143.3
19	Unknown	13.54	mVS	156.6
20	Unknown	26.16	mVS	175.6
21	Unknown	11.52	mVS	201.6
22	Unknown	16.53	mVS	213.6
23	Unknown	0.493	mVS	275.7

Notes

Billy Mitchell Air National Guard Base

Mark Escobar
04-025PS 3'-5' Duplicate

Analysis #7 10S+ GC Function Analysis Report



Time Printed: Oct 29,94 09:44
Sample Time: Oct 29,94 09:35

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

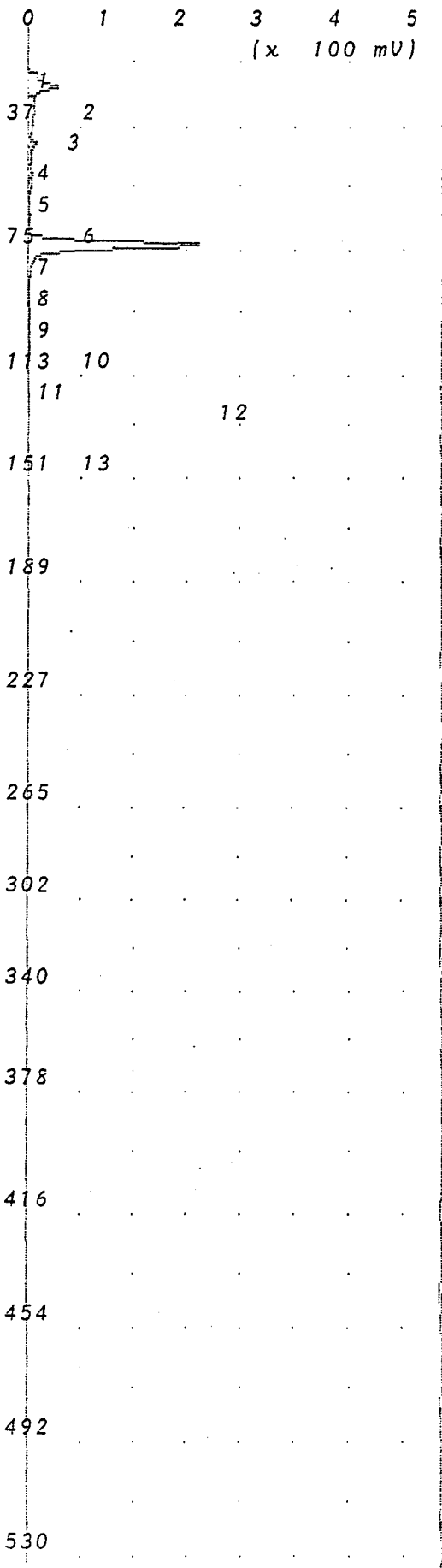
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	1.245	mVS	18.4
2	Unknown	13.39	mVS	19.7
3	Unknown	7.547	mVS	21.4
4	Unknown	29.91	mVS	22.5
5	Unknown	25.54	mVS	28.8
6	Unknown	17.51	mVS	31.8
7	Unknown	38.63	mVS	36.6
8	Unknown	20.63	mVS	43.9
9	Unknown	15.69	mVS	48.2
10	Unknown	12.09	mVS	53.8
11	Unknown	14.28	mVS	60.8
12	Benzene	5.395	ppb	70.6
13	Unknown	6.433	mVS	74.9
14	Unknown	6.977	mVS	80.9
15	Unknown	4.336	mVS	91.8
16	Unknown	1.062	mVS	99.8
17	Unknown	0.056	mVS	137.8
18	Toluene	3.447	ppb	147.0

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-025PS 5'-7'

Analysis #8 10S+ GC Function Analysis Report



Time Printed: Oct 29,94 09:56
Sample Time: Oct 29,94 09:47

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

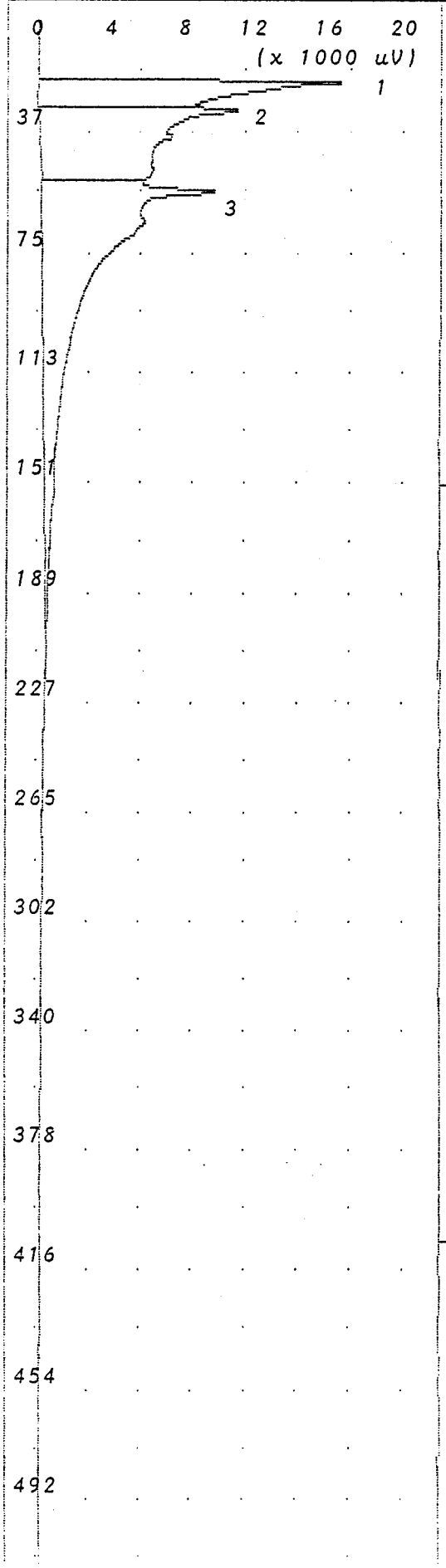
Pk	Compound Name	Area/Conc		R.T.
1	Unknown	0.650	mVS	18.0
2	Unknown	23.78	mVS	19.4
3	Unknown	209.8	mVS	23.2
4	Unknown	1.745	mVS	28.2
5	Unknown	3.981	mVS	30.6
6	Unknown	1.470	mVS	34.0
7	Unknown	0.859	mVS	36.0
8	Unknown	49.55	mVS	40.6
9	Unknown	18.77	mVS	50.2
10	Unknown	27.64	mVS	53.0
11	Unknown	12.18	mVS	62.0
12	Benzene	132.3	ppb	70.8
13	Toluene	0.228	ppb	138.1

Notes

Billy Mitchell Air National Guard Base

Mark Escobar
04-025PS 8'-10'

Analysis #16 10S+ GC Function Analysis Report



Time Printed: Oct 28,94 16:07
Sample Time: Oct 28,94 15:58

Method

Slope Up	0.500	mV/Sec
Slope Down	0.500	mV/Sec
Min Area	200.0	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

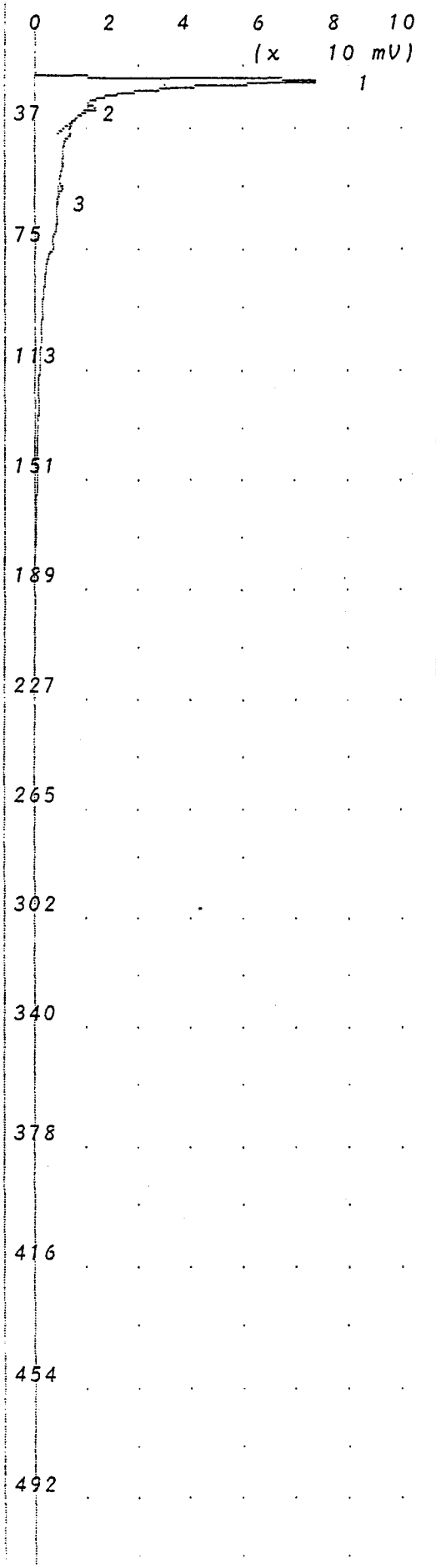
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	102.8 mVS	19.8
2	Unknown	161.2 mVS	28.8
3	Unknown	253.7 mVS	54.2

Notes

Mark Escobar
Billy Mitchell Air
National Guard Base
04-026PS 1'-3'

Analysis #8 10S+ GC Function Analysis Report



Time Printed: Oct 28,94 12:11
Sample Time: Oct 28,94 12:02

Method

Slope Up	0.500	mV/Sec
Slope Down	0.500	mV/Sec
Min Area	200.0	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

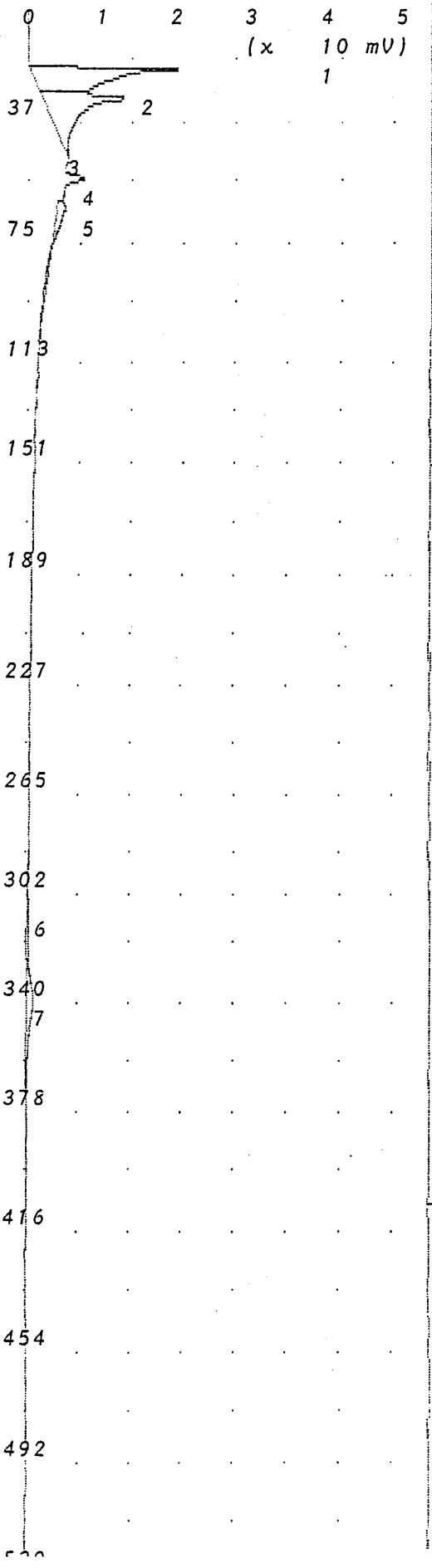
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	990.6 mVS	20.4
2	Unknown	3.190 mVS	29.0
3	Unknown	3.086 mVS	54.0

Notes

Mark Escobar
Billy Mitchell Air
National Guard Base
04-~~026PS GW~~
030 PS 5-7' (MZ)

Analysis #8 10S+ GC Function Analysis Report



Time Printed: Oct 27,94 11:35
Sample Time: Oct 27,94 11:26

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

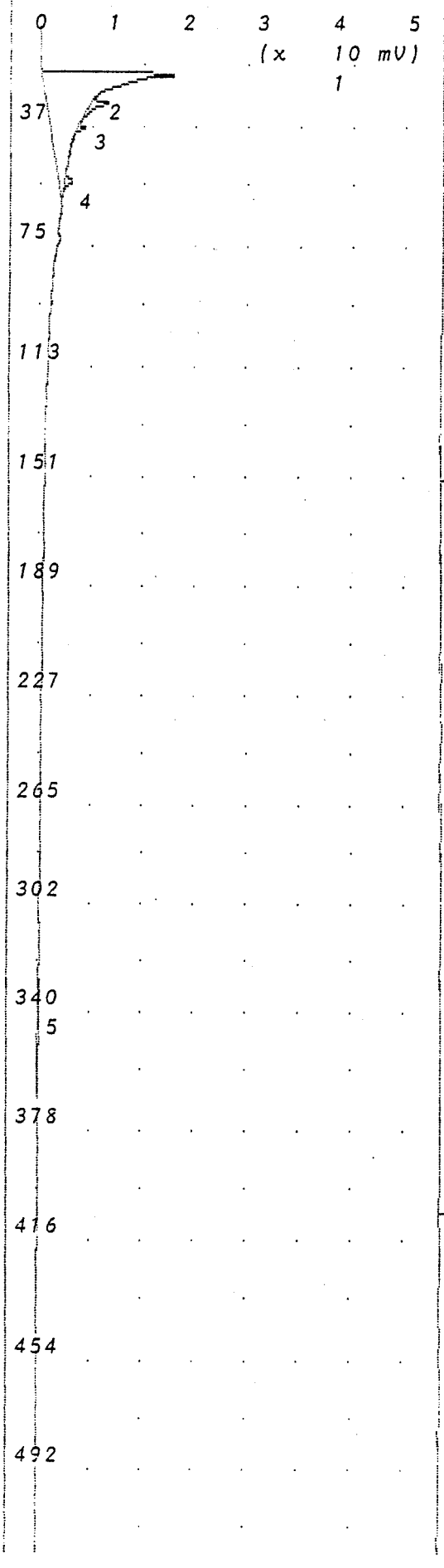
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	93.27	mVS	19.0
2	Unknown	66.98	mVS	28.2
3	Unknown	0.145	mVS	43.7
4	Unknown	10.20	mVS	53.1
5	Unknown	0.019	mVS	62.1
6	Ethylbenzene	0.419	ppb	313.0
7	MP Xylene	7.561	ppb	336.6

Notes

Mark Escobar
Billy Mitchell Air National Guard Base
04-027PS 1'-3'

Analysis #9 10S+ GC Function Analysis Report



Time Printed: Oct 27,94 11:46
Sample Time: Oct 27,94 11:37

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

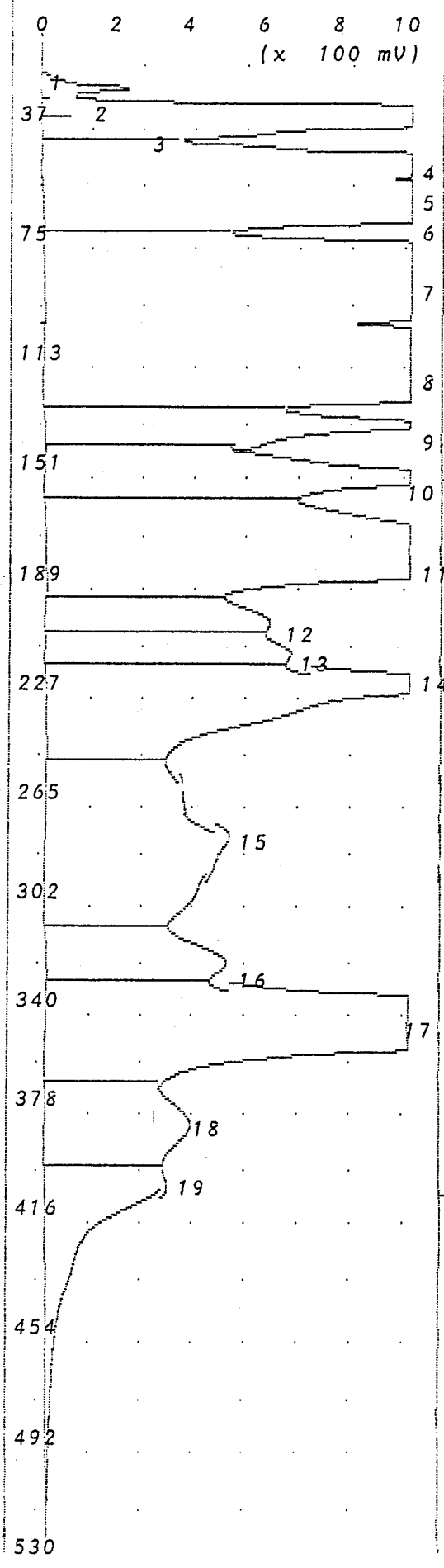
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	188.2	mVS	18.7
2	Unknown	5.620	mVS	28.0
3	Unknown	0.518	mVS	35.8
4	Unknown	2.929	mVS	52.8
5	MP Xylene	1.833	ppb	337.6

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
04-027PS 5'-7'

Analysis #19 10S+ GC Function Analysis Report



Time Printed: Oct 26,94 15:50
Sample Time: Oct 26,94 15:41

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

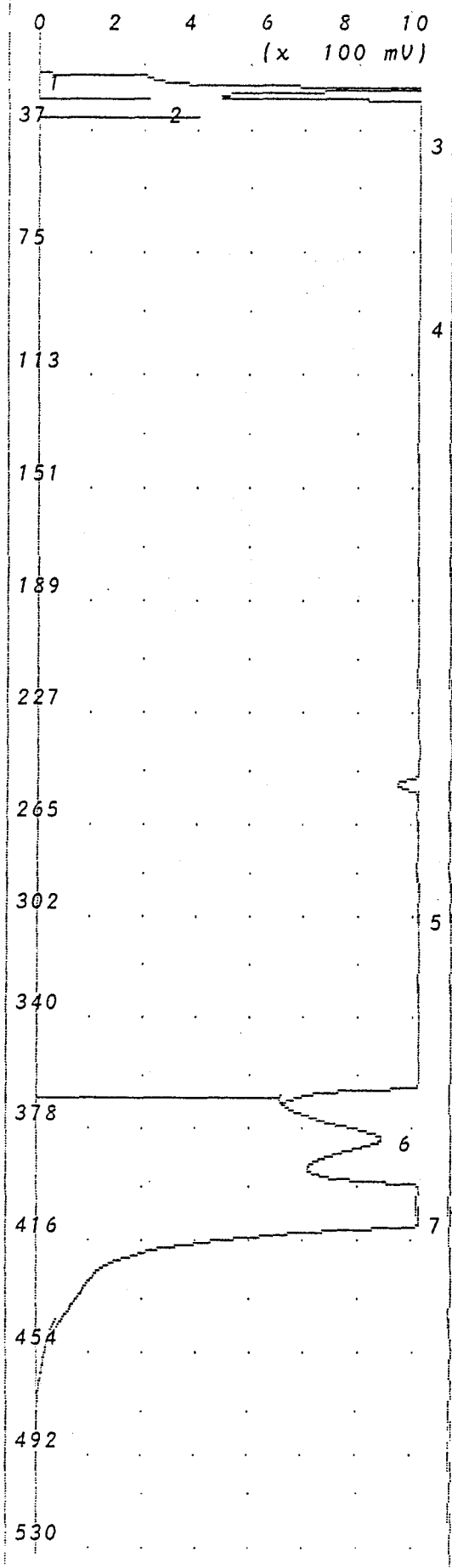
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	0.569	mVS	17.5
2	Unknown	37.26	mVS	18.6
3	Unknown	722.3	mVS	22.4
4	Unknown	27.71	VSec	31.5
5	Unknown	17.07	VSec	46.8
6	Unknown	55.17	VSec	53.2
7	Unknown	118.0	VSec	83.6
8	Unknown	26.97	VSec	110.2
9	Unknown	11.55	VSec	129.3
10	Toluene	6.306	ppm	148.8
11	Unknown	40.78	VSec	173.6
12	Unknown	6.641	VSec	197.4
13	Unknown	6.559	VSec	207.6
14	Unknown	24.70	VSec	220.0
15	Unknown	26.11	VSec	275.2
16	Ethylbenzene	2.649	ppm	318.1
17	MP Xylene	31.15	ppm	341.3
18	Unknown	9.482	VSec	379.3
19	O Xylene	17.58	ppm	399.3

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
04-028PS 1'-3'

Analysis #21 10S+ GC Function Analysis Report



Time Printed: Oct 26,94 16:05
Sample Time: Oct 26,94 15:56

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

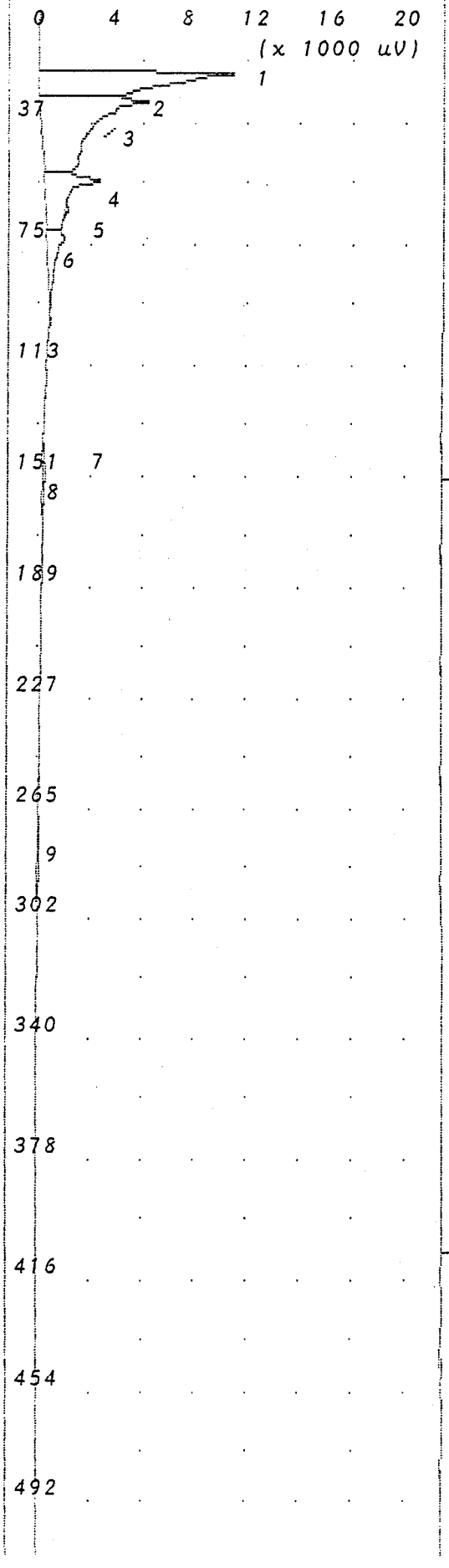
Pk	Compound Name	Area/Conc		R.T.
1	Unknown	0.871	mVS	17.7
2	Unknown	491.1	mVS	19.0
3	Unknown	3.358	VSec	23.2
4	Unknown	6759.	VSec	92.9
5	Ethylbenzene	87.38	PPM2	302.4
6	Unknown	17.60	VSec	379.3
7	O Xylene	82.01	PPM2	401.6

PPM1 = Alarm 1 PPM2 = Alarm2

Notes

Mark Escobar
Billy Mitchell Air National Guard Base
04-028PS 5'-7'

Analysis #9 10S+ GC Function Analysis Report



Time Printed:	Oct 29,94	10:07
Sample Time:	Oct 29,94	09:58

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

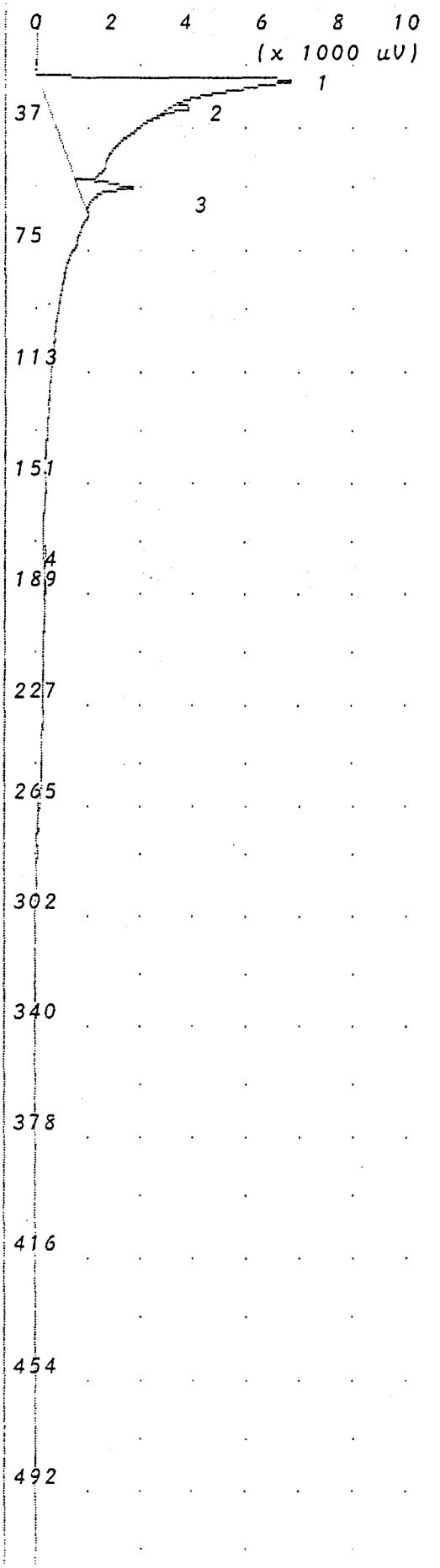
Pk	Compound Name	Area/Conc		R.T.
1	Unknown	60.42	mVS	19.8
2	Unknown	67.51	mVS	28.6
3	Unknown	0.292	mVS	31.5
4	Unknown	26.13	mVS	53.2
5	Unknown	0.273	mVS	62.2
6	Benzene	7.246	ppb	71.3
7	Unknown	0.541	mVS	137.3
8	Toluene	1.527	ppb	148.4
9	Unknown	1.080	mVS	275.7

Notes

Billy Mitchell Air National
Guard Base

Mark Escobar
04-029PS 1'-3'

Analysis #12 10S+ GC Function Analysis Report



Time Printed: Oct 29,94 10:41
Sample Time: Oct 29,94 10:32

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

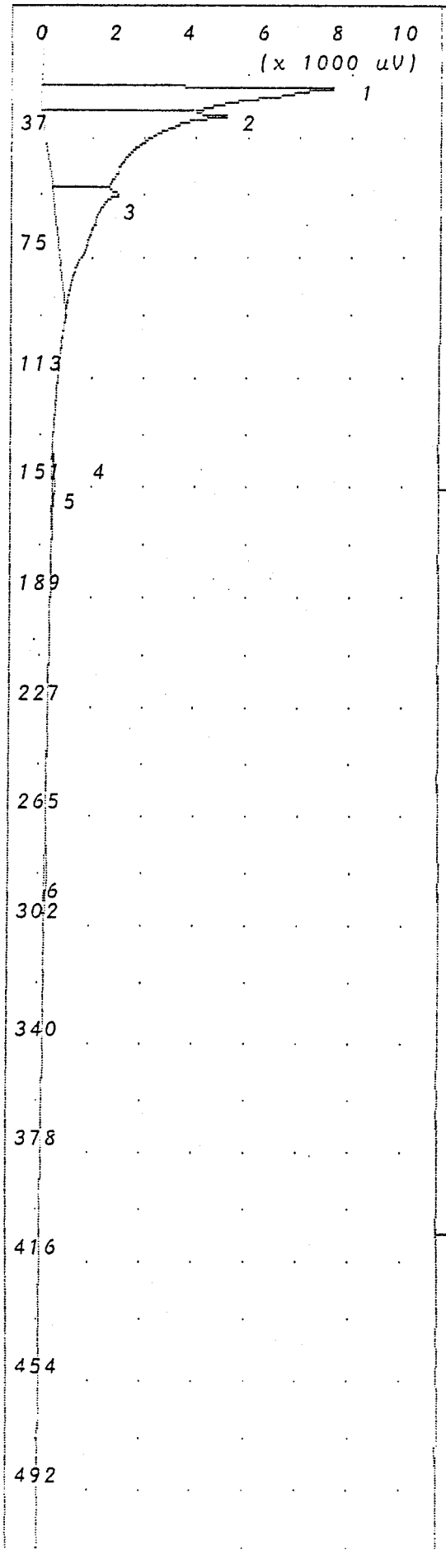
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	89.25	mVS	20.2
2	Unknown	1.133	mVS	29.2
3	Unknown	5.525	mVS	52.6
4	Unknown	0.534	mVS	169.4

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-029PS 5'-7'

Analysis #13 10S+ GC Function Analysis Report



Time Printed: Oct 29,94 10:52
Sample Time: Oct 29,94 10:44

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

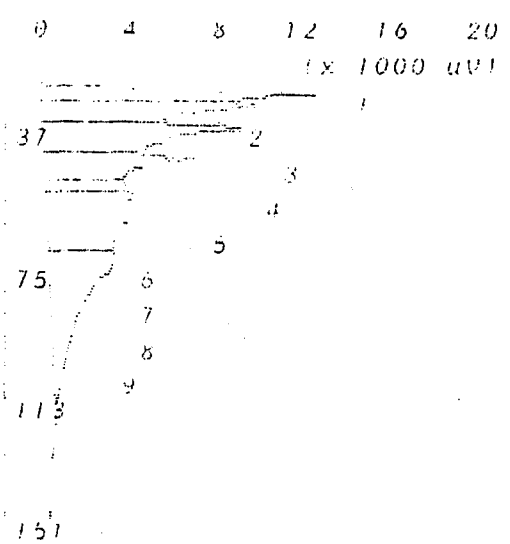
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	50.64	mVS	19.8
2	Unknown	65.61	mVS	28.6
3	Unknown	28.98	mVS	53.8
4	Unknown	0.525	mVS	137.8
5	Toluene	1.138	ppb	150.0
6	Unknown	0.730	mVS	280.2

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-030PS 1'-3'

Analysis #5 IOS+ GC Function Analysis Report



Time Printed: Nov 3,94 09:23
Sample Time: Nov 3,94 09:14

Method

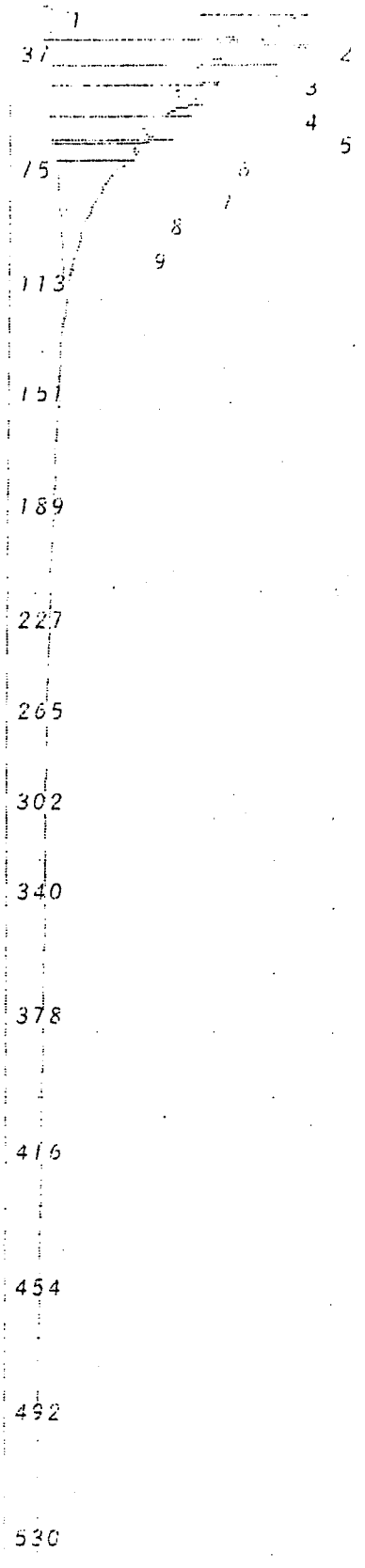
Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	20.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	27	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	35.46 mVS	19.2
2	Unknown	0.105 mVS	21.0
3	Unknown	40.06 mVS	22.2
4	Unknown	49.52 mVS	28.3
5	Unknown	33.86 mVS	36.5
6	Unknown	10.58 mVS	43.8
7	Unknown	22.18 mVS	46.5
8	Unknown	32.19 mVS	53.9
9	Benzene	27.78 ppb	62.5

Billy Mitchell Air National Guard Base
Mark Escobar
04-031PS 1'-3'

Analysis #9 TOS+ GC Function Analysis Report



Time Printed: Nov 3,94 09:38
Sample Time: Nov 3,94 09:26

Method

Slope Up	0.500	mV/Sec
Slope Down	1.000	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	20.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

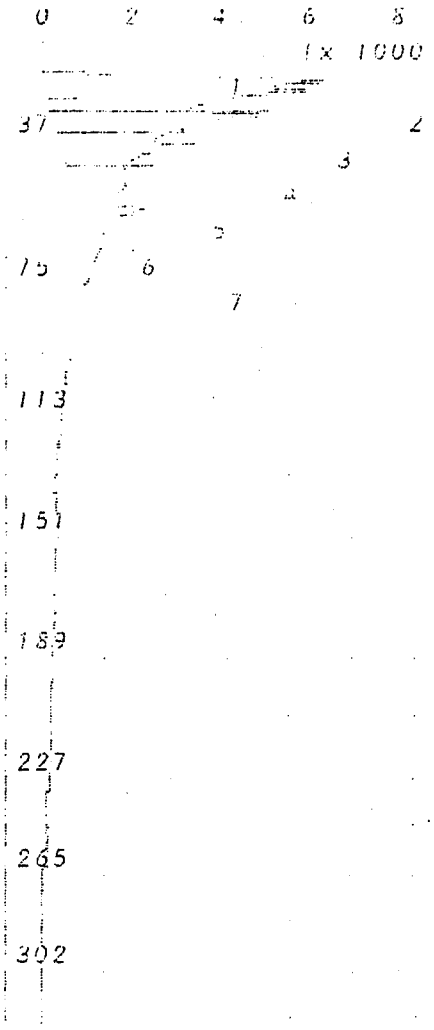
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	0.746	mVS	18.2
2	Unknown	23.56	mVS	19.8
3	Unknown	11.10	mVS	21.4
4	Unknown	54.44	mVS	22.4
5	Unknown	76.46	mVS	28.6
6	Unknown	45.80	mVS	37.6
7	Unknown	59.08	mVS	44.1
8	Unknown	33.54	mVS	54.1
9	Benzene	39.33	ppb	63.1

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-031PS 5'-7'

Analysis #10 10S+ 3C Function Analysis Report



Time Printed: Nov 3,94 09:50
Sample Time: Nov 3,94 09:41

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	[illegible]	mVSec
Min Height	[illegible]	mV
Analysis Delay	[illegible]	sec
Solvent Percent	20.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

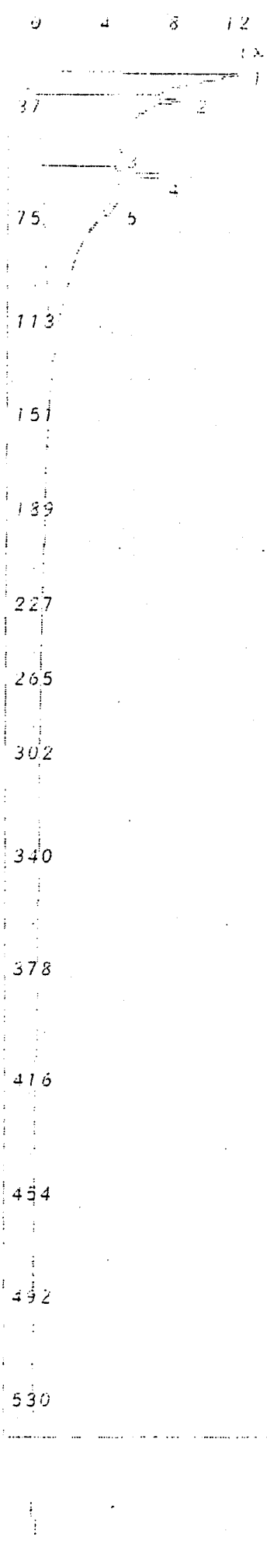
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	1.939 mVS	18.2
2	Unknown	16.63 mVS	19.5
3	Unknown	24.16 mVS	22.4
4	Unknown	24.39 mVS	28.6
5	Unknown	19.80 mVS	36.8
6	Unknown	0.466 mVS	47.3
7	Unknown	4.560 mVS	53.0
8	O Xylene	4.659 ppb	381.0

Notes

Billy Mitchell Air National Guard Base

Mark Escobar
04-032PS 1'-3'

Analysis #17 TOS* GC Function Analysis Report



Time Printed: Nov 3,94 11:24
Sample Time: Nov 3,94 11:15

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	20.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

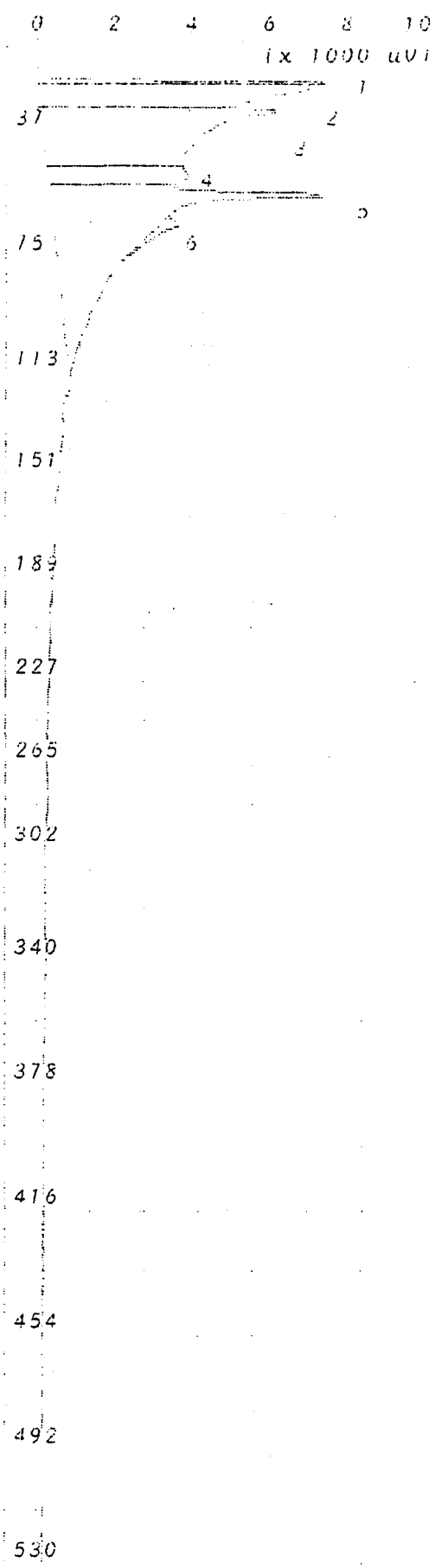
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	77.58	mVS	19.9
2	Unknown	134.5	mVS	28.8
3	Unknown	0.868	mVS	47.5
4	Unknown	143.9	mVS	54.3
5	Benzene	1.986	ppb	63.5

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-033PS 1'-3'

Analysis #18 10S+ GC Function Analysis Report



Time Printed: Nov 3,94 11:42
Sample Time: Nov 3,94 11:33

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	20.0	%
Det Flow	12	ml/min
H/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	23	C
Max Gain	1000	
Analysis Time	530.0	sec

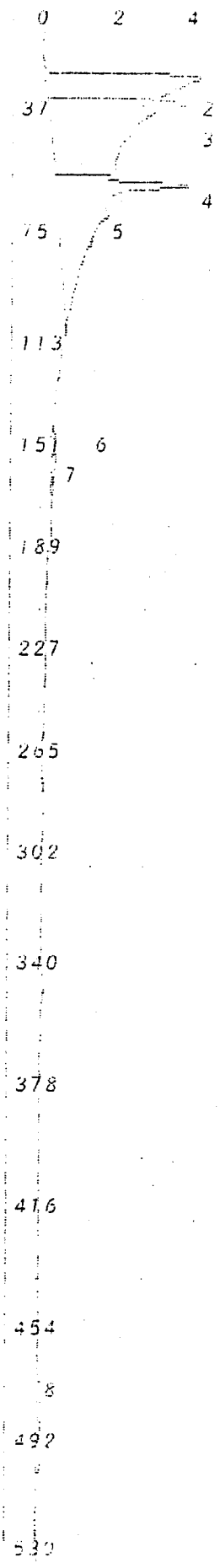
Peak Report

PK	Compound Name	Area/Conc		R.T.
1	Unknown	13.48	mVS	20.0
2	Unknown	41.59	mVS	21.7
3	Unknown	83.58	mVS	28.9
4	Unknown	19.33	mVS	49.0
5	Unknown	99.21	mVS	54.5
6	Benzene	1.280	ppb	63.0

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-033PS 3'-5'

Analysis #25 10S+ GC Function Analysis Report



Time Printed: Nov 3,94 12:50
Sample Time: Nov 3,94 12:41

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	20.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amp Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

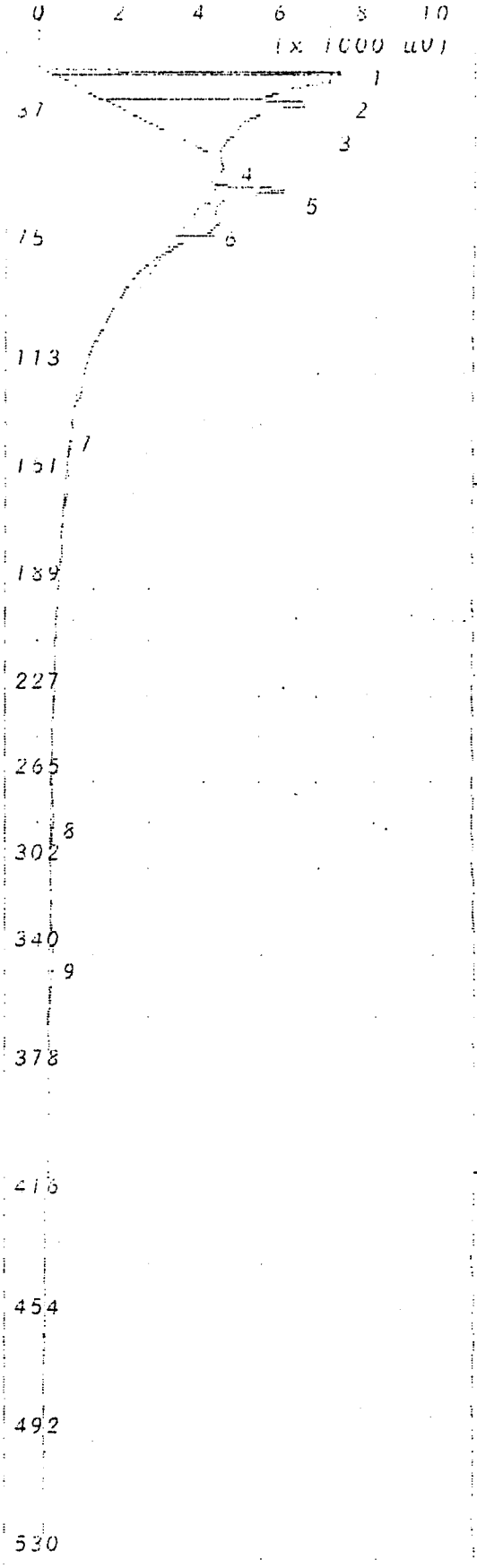
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	30.56 mVS	19.9
2	Unknown	0.123 mVS	22.9
3	Unknown	52.92 mVS	29.3
4	Unknown	39.96 mVS	54.6
5	Benzene	0.223 ppb	63.4
6	Unknown	0.079 mVS	141.4
7	Toluene	1.044 ppb	149.6
8	O Xylene	5.285 ppb	464.4

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-034PS 1'-3'

Analysis #26 [illegible] Report



Time Printed: Nov 3.94 13:01
Sample Time: Nov 3.94 12:52

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	20.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	32	C
Max Gain	1000	
Analysis Time	530.0	sec

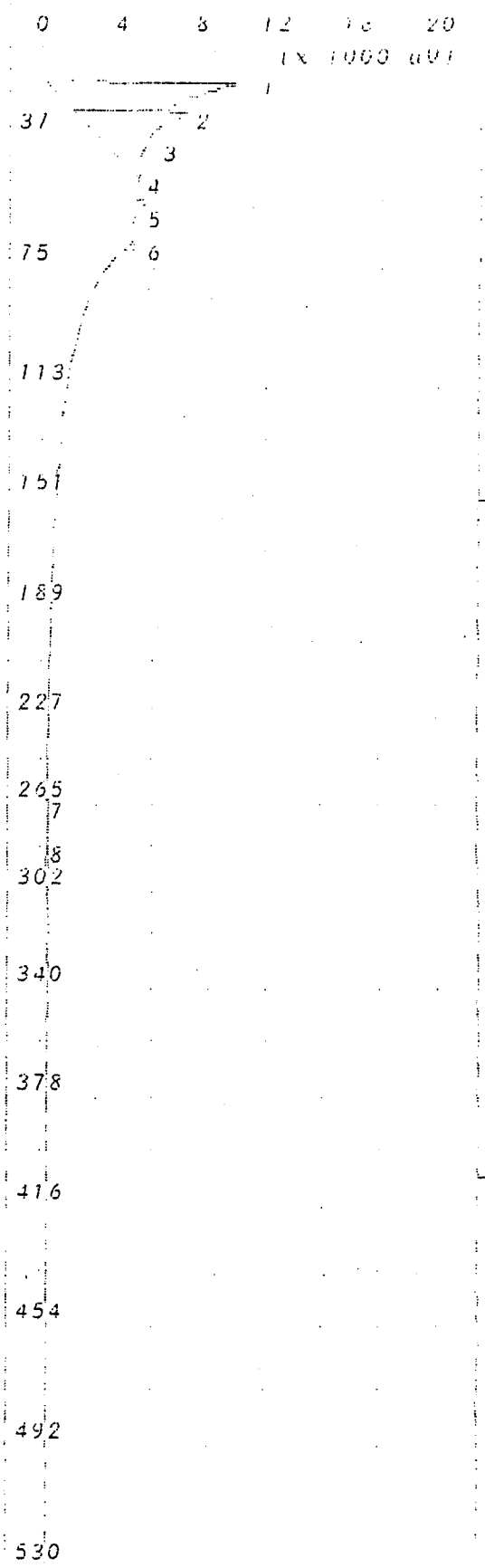
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	12.40	mVS	20.0
2	Unknown	37.10	mVS	21.9
3	Unknown	36.06	mVS	29.0
4	Unknown	1.027	mVS	47.6
5	Unknown	10.35	mVS	54.5
6	Benzene	8.733	ppb	63.7
7	Toluene	0.853	ppb	130.0
8	Ethylbenzene	0.509	ppb	278.1
9	MP Xylene	1.275	ppb	333.3

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-034PS 3'-5'

Analysis #21 10S+ GC Function Analysis Report



Time Printed: Nov 3,94 13:13
Sample Time: Nov 3,94 13:04

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	20.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	32	C
Max Gain	1000	
Analysis Time	530.0	sec

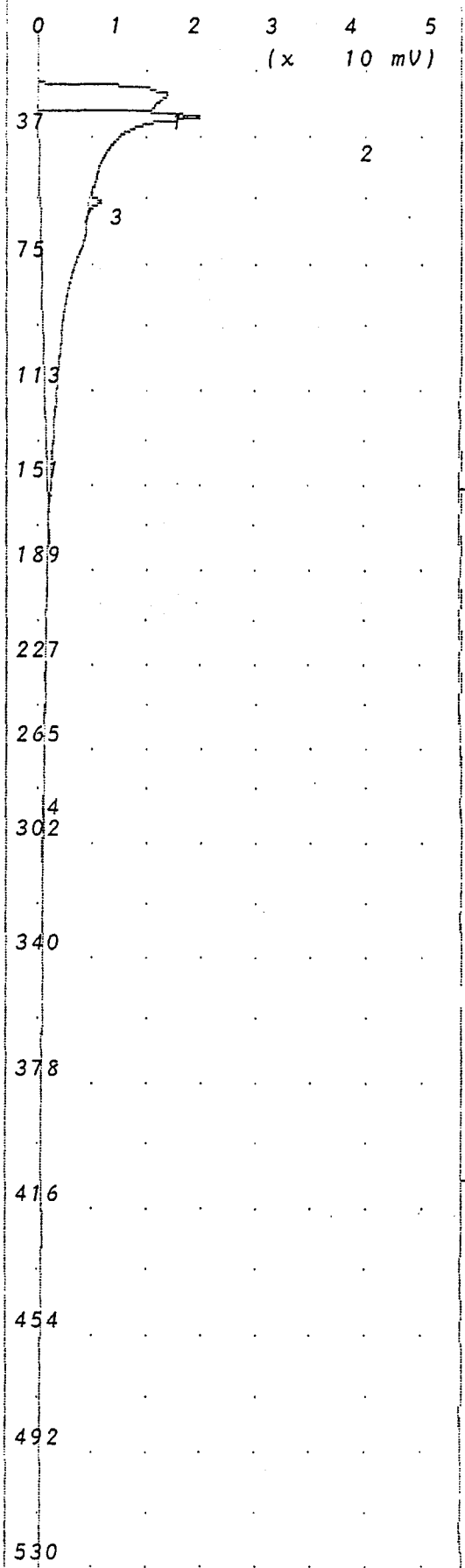
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	58.46	mVS	20.0
2	Unknown	46.65	mVS	28.8
3	Unknown	0.196	mVS	37.1
4	Unknown	0.130	mVS	47.4
5	Unknown	0.201	mVS	47.4
6	Unknown	2.189	mVS	54.5
7	Unknown	0.076	mVS	261.8
8	Ethylbenzene	1.065	ppb	280.0

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-034PS 5'-7'

Analysis #28 10S+ GC Function Analysis Report



Time Printed: Oct 29,94 15:40
Sample Time: Oct 29,94 15:31

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	31	C
Max Gain	1000	
Analysis Time	530.0	sec

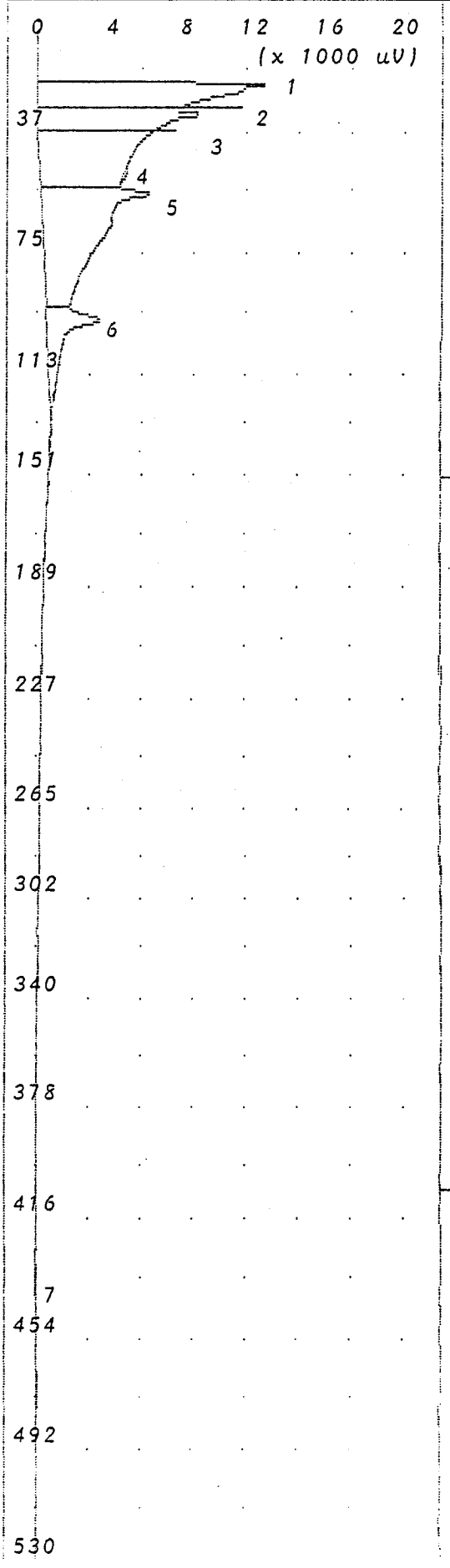
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	128.4	mVS	22.3
2	Unknown	536.0	mVS	28.8
3	Unknown	3.740	mVS	54.8
4	Unknown	1.449	mVS	285.8

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-035PS 1'-3'

Analysis #29 10S+ GC Function Analysis Report



Time Printed: Oct 29,94 15:52
Sample Time: Oct 29,94 15:43

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	30	C
Max Gain	1000	
Analysis Time	530.0	sec

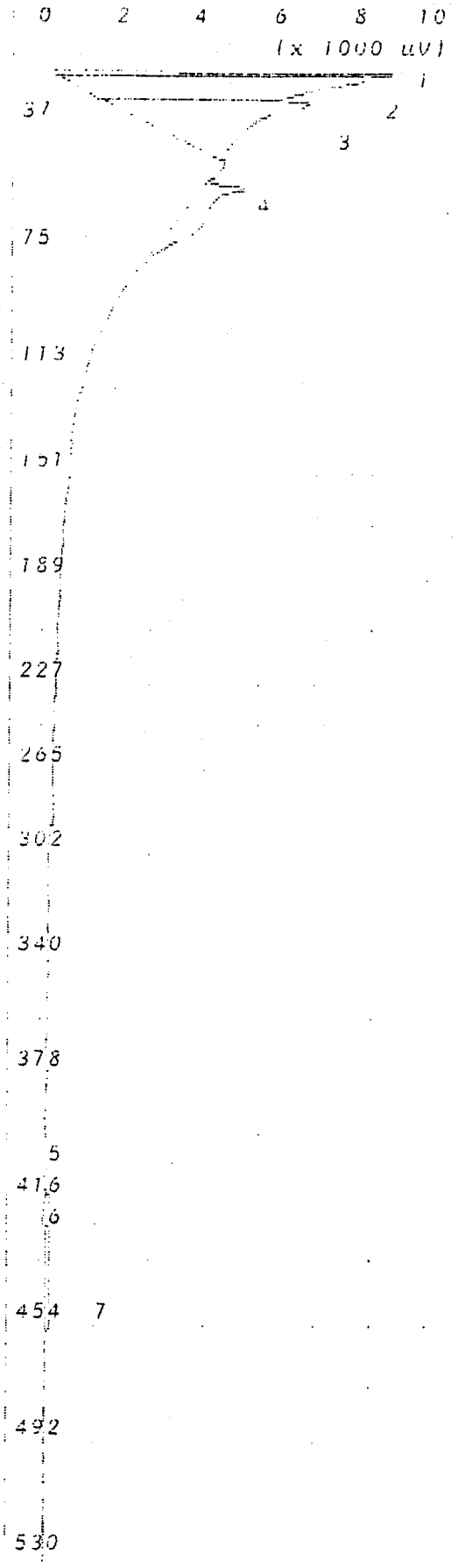
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	25.23	mVS	20.6
2	Unknown	61.64	mVS	22.4
3	Unknown	138.9	mVS	29.8
4	Unknown	0.365	mVS	48.4
5	Unknown	109.4	mVS	55.0
6	Unknown	30.25	mVS	93.8
7	Unknown	1.343	mVS	435.6

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-035PS 5'-7'

Analysis #29 10S+ GC Function Analysis Report



Time Printed: Nov 3,94 13:37
Sample Time: Nov 3,94 13:28

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	20.0	%
Det Flow	12	mL/min
H/F Flow	12	mL/min
Aux Flow	0	mL/min
Oven Temp	40	C
Amb Temp	22	C
Max Gain	1000	
Analysis Time	530.0	sec

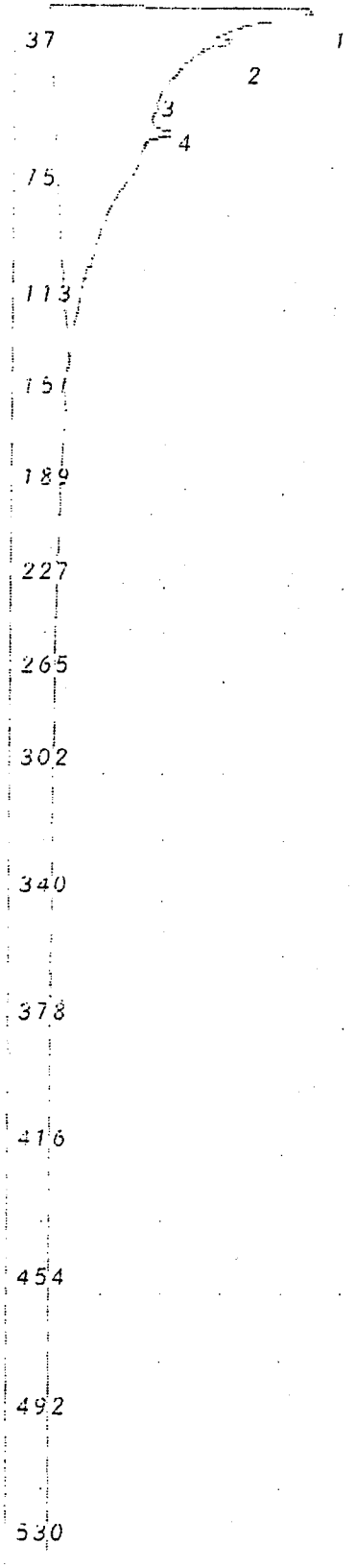
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	16.06	mVS	19.9
2	Unknown	41.16	mVS	21.6
3	Unknown	43.20	mVS	28.8
4	Unknown	12.19	mVS	54.4
5	O Xylene	1.507	ppb	397.0
6	Unknown	0.447	mVS	416.0
7	Unknown	4.841	mVS	443.2

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-036PS 1'-3'

Analysis #33 TOS+ GC Flotation Analysis Report



Time Printed: Nov 3,94 14:21
Sample Time: Nov 3,94 14:18

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	20.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	31	C
Max Gain	1000	
Analysis Time	530.0	sec

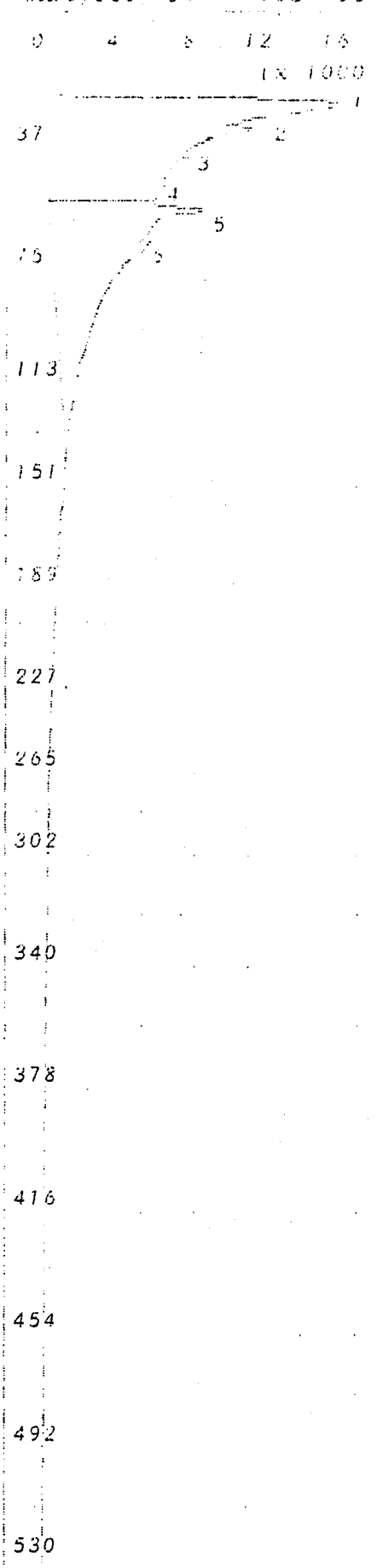
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	379.4	mVS	22.6
2	Unknown	2.008	mVS	31.2
3	Unknown	0.469	mVS	49.7
4	Unknown	3.211	mVS	56.5

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-037PS 1'-3'

Analysis #24 10S+ GC Function Analysis Report



Time Printed: Nov 3,94 14:39
Sample Time: Nov 3,94 14:30

Method

Slope Up	[illegible]	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	20.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	31	C
Max Gain	1000	
Analysis Time	530.0	sec

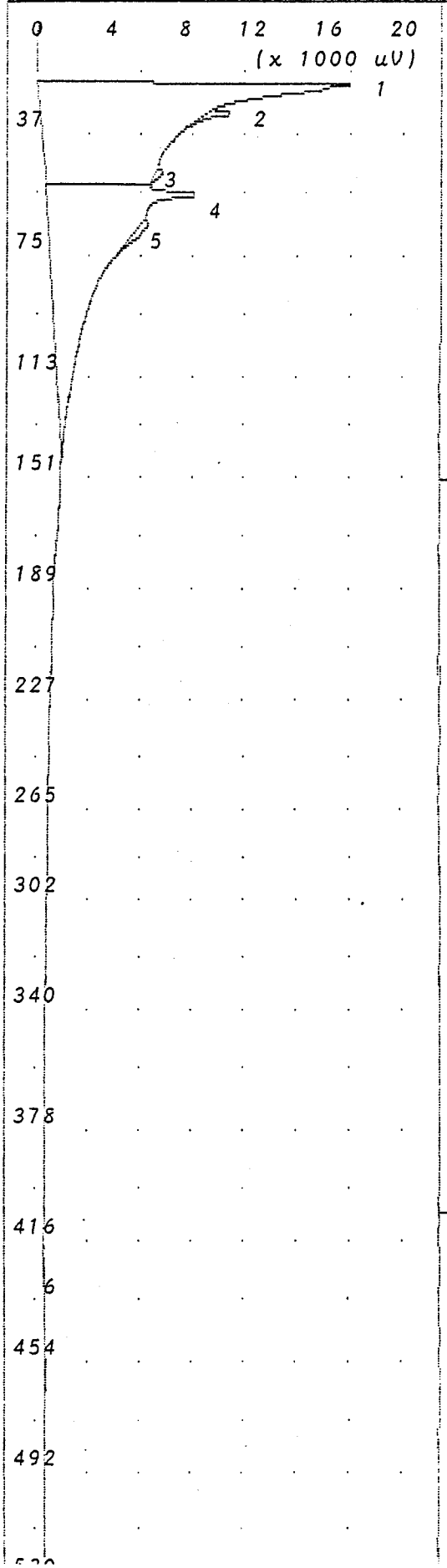
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	299.9	mVS	21.8
2	Unknown	3.085	mVS	29.3
3	Unknown	0.641	mVS	37.5
4	Unknown	0.703	mVS	47.6
5	Unknown	195.6	mVS	55.0
6	Benzene	1.879	ppb	63.5

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-037PS 5'-7'

Analysis #21 10S+ GC Function Analysis Report



Time Printed: Oct 29,94 14:31
Sample Time: Oct 29,94 14:22

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	31	C
Max Gain	1000	
Analysis Time	530.0	sec

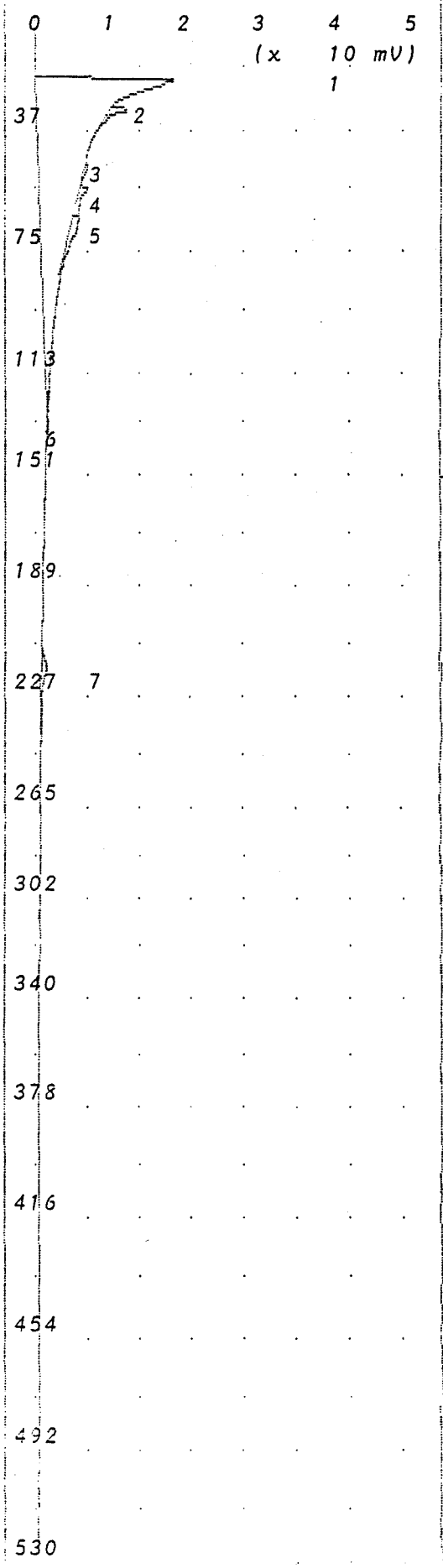
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	287.3 mVS	20.0
2	Unknown	2.650 mVS	29.0
3	Unknown	1.266 mVS	47.4
4	Unknown	203.3 mVS	54.4
5	Unknown	2.937 mVS	63.4
6	O Xylene	18.42 ppb	420.4

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-038PS 1'-3'

Analysis #22 10S+ GC Function Analysis Report



Time Printed: Oct 29,94 14:42
Sample Time: Oct 29,94 14:33

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	31	C
Max Gain	1000	
Analysis Time	530.0	sec

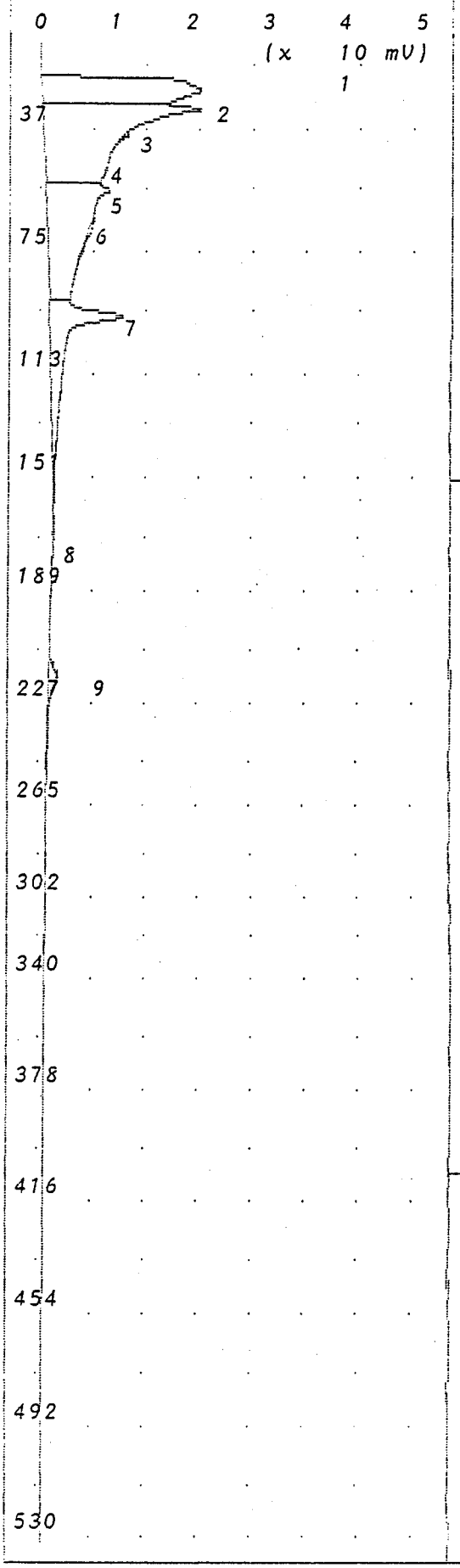
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	497.4	mVS	20.1
2	Unknown	5.374	mVS	29.1
3	Unknown	0.942	mVS	47.2
4	Unknown	5.836	mVS	54.2
5	Unknown	7.740	mVS	62.8
6	Unknown	0.054	mVS	130.9
7	Unknown	7.092	mVS	215.0

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-038PS 5'-7'

Analysis #23 10S+ GC Function Analysis Report



Time Printed:	Oct 29,94	14:53
Sample Time:	Oct 29,94	14:44

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	31	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

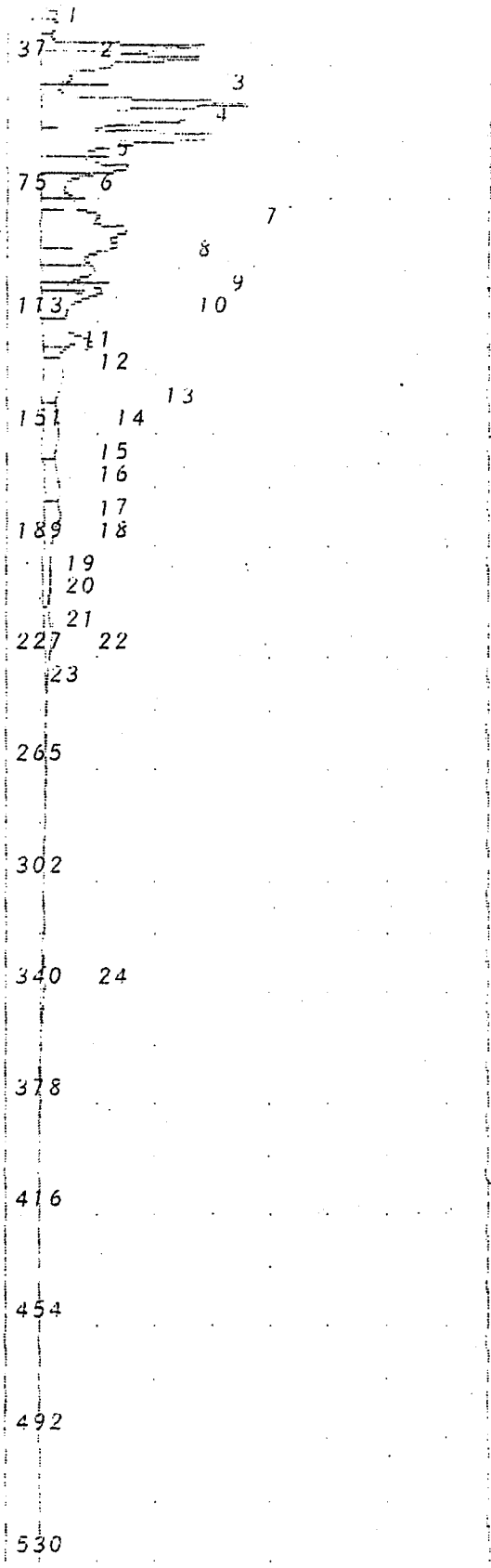
Pk	Compound Name	Area/Conc		R.T.
1	Unknown	164.4	mVS	20.3
2	Unknown	281.0	mVS	29.1
3	Unknown	0.658	mVS	37.2
4	Unknown	0.536	mVS	47.2
5	Unknown	188.2	mVS	54.5
6	Unknown	1.741	mVS	62.8
7	Unknown	118.5	mVS	93.3
8	Unknown	0.082	mVS	164.4
9	Unknown	13.24	mVS	215.0

Notes

Billy Mitchell Air National
Guard Base

Mark Escobar
04-038PS 10'-12'

Analysis #0 105+ GC Injection Analysis Report



Time Printed: Nov 8,94 10:27
Sample Time: Nov 8,94 10:19

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	32	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

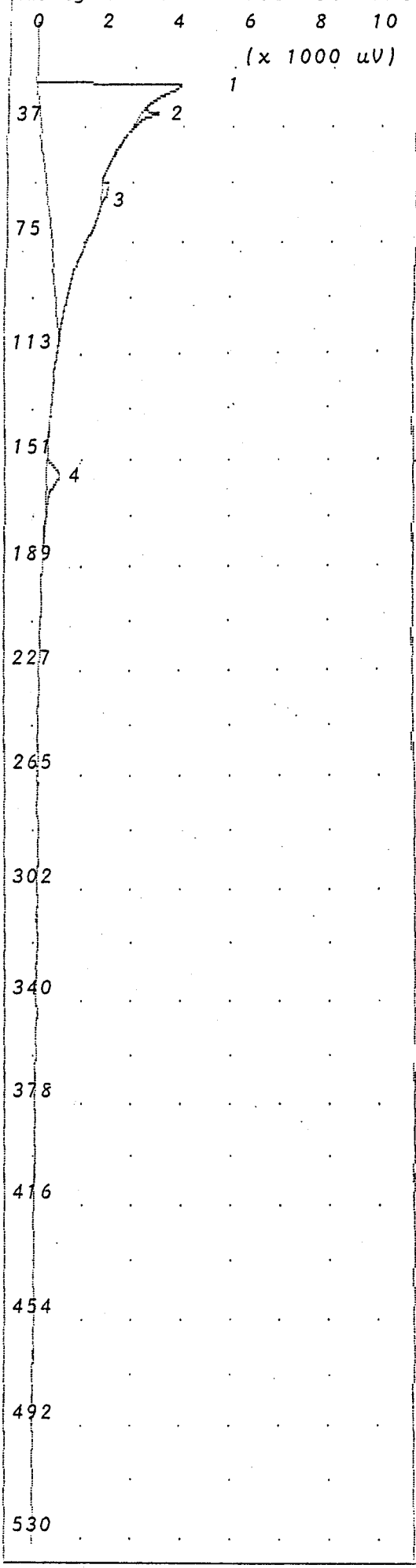
Pk	Compound Name	Area/Conc		R.T.
1	Unknown	13.80	mVS	20.7
2	Unknown	15.72	mVS	24.4
3	Unknown	91.37	mVS	30.3
4	Unknown	95.21	mVS	33.5
5	Unknown	34.92	mVS	36.0
6	Unknown	25.16	mVS	39.2
7	Unknown	164.5	mVS	46.8
8	Unknown	122.7	mVS	51.0
9	Unknown	176.5	mVS	55.8
10	Unknown	121.4	mVS	64.0
11	Benzene	9.017	ppb	73.6
12	Unknown	57.41	mVS	78.2
13	Unknown	95.71	mVS	81.4
14	Unknown	83.68	mVS	86.6
15	Unknown	82.23	mVS	93.4
16	Unknown	125.3	mVS	102.5
17	Unknown	98.44	mVS	117.4
18	Unknown	64.94	mVS	129.0
19	Toluene	9.806	ppb	149.2
20	Unknown	53.16	mVS	167.8
21	Unknown	83.76	mVS	177.2
22	Unknown	0.866	mVS	195.4
23	Unknown	43.36	mVS	217.2
24	MP Xylene	4.283	ppb	333.8

Notes

Billy Mitchell Air National Guard Base

Mark Escobar
04-001MW GW

Analysis #7 10S+ GC Function Analysis Report



Time Printed: Nov 9,94 13:12

Sample Time: Nov 9,94 13:04

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

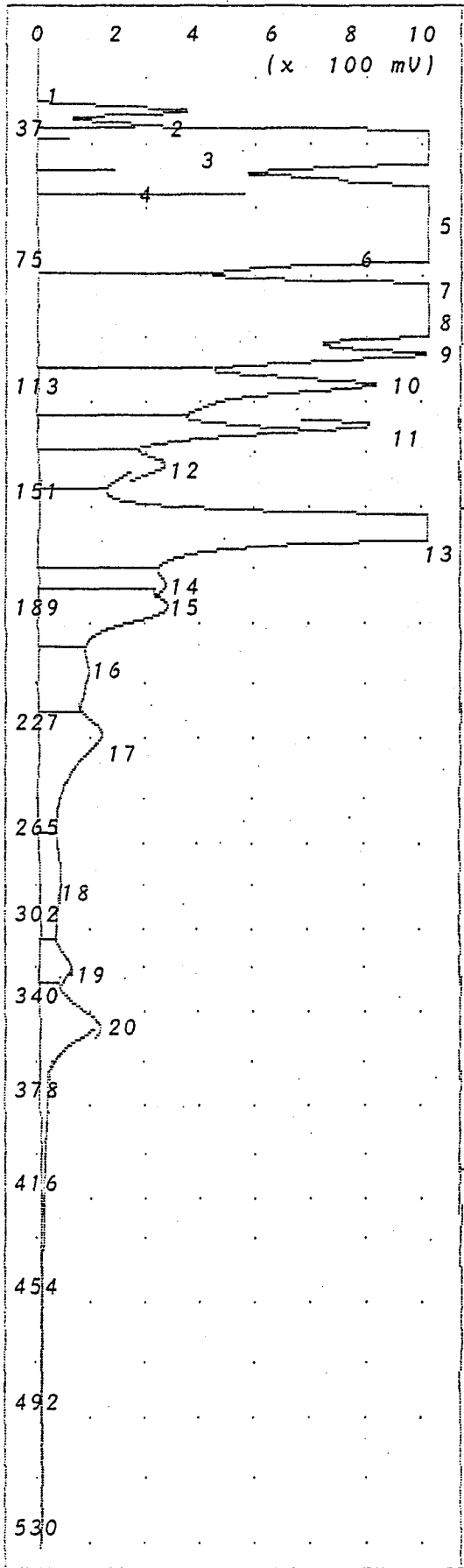
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	146.1 mVS	21.0
2	Unknown	0.589 mVS	31.0
3	Unknown	0.887 mVS	53.9
4	Toluene	3.704 ppb	154.2

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-002MW

Analysis #8 10S+ GC Function Analysis Report



Time Printed: Nov 9,94 13:24
Sample Time: Nov 9,94 13:15

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	0.224	mVS	19.9
2	Unknown	234.4	mVS	24.2
3	Unknown	933.8	mVS	25.4
4	Unknown	341.2	mVS	29.4
5	Unknown	48.08	VSec	36.0
6	Unknown	1.958	VSec	45.7
7	Unknown	145.1	VSec	56.8
8	Benzene	35.55	ppm	83.4
9	Unknown	6.244	VSec	96.6
10	Unknown	8.347	VSec	106.1
11	Unknown	7.192	VSec	121.2
12	Unknown	4.045	VSec	133.2
13	Toluene	10.49	ppm	155.2
14	Unknown	3.040	VSec	172.0
15	Unknown	4.258	VSec	181.8
16	Unknown	2.353	VSec	201.0
17	Unknown	4.082	VSec	223.4
18	Unknown	2.330	VSec	278.4
19	Ethylbenzene	1.317	ppm	319.7
20	MP Xylene	12.95	ppm	343.3

Notes

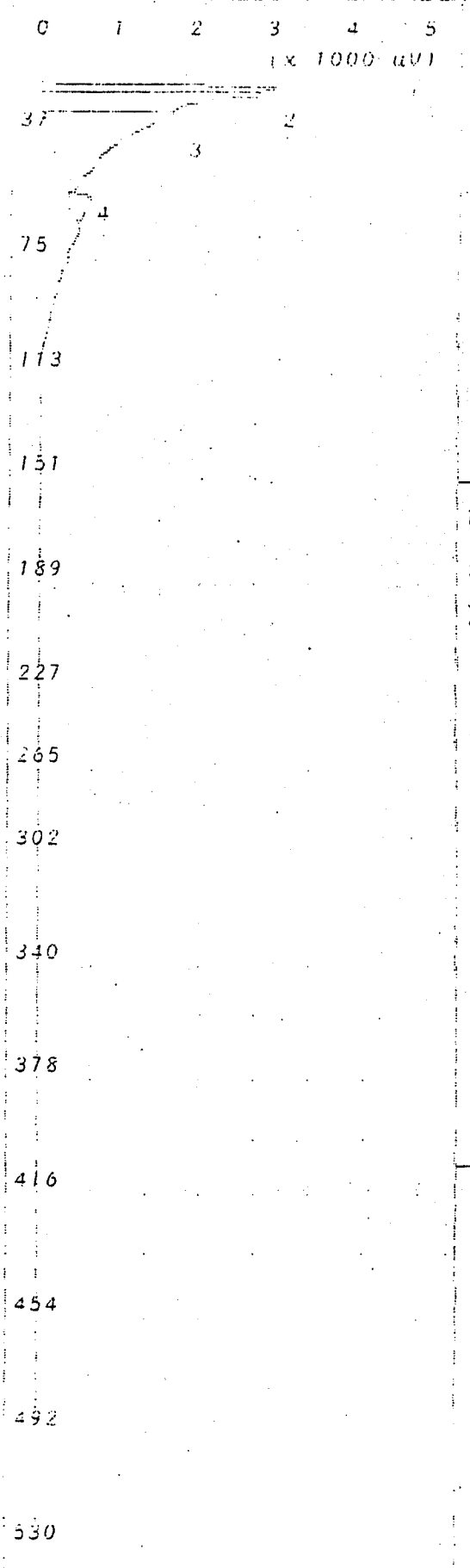
Billy Mitchell Air National Guard Base

Mark Escobar

04-002MW

5x Dilution

Analysis #1 10S+ GC Function Analysis Report



Time Printed: Nov 8,94 10:40
Sample Time: Nov 8,94 10:31

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

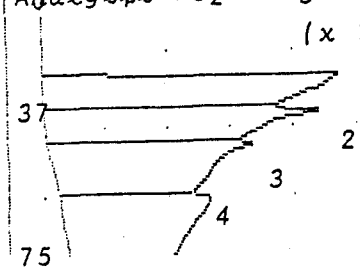
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	7.116 mVS	20.0
2	Unknown	15.02 mVS	22.8
3	Unknown	18.94 mVS	29.5
4	Unknown	1.562 mVS	55.3

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-004MW GW

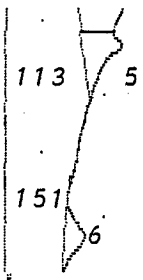
Analysis #62 BOS+ GC Function Time Printed Nov 9,94 13:01



Sample Time: Nov 9,94 12:52

Method		
Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec

Window Percent 10.0 %



B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

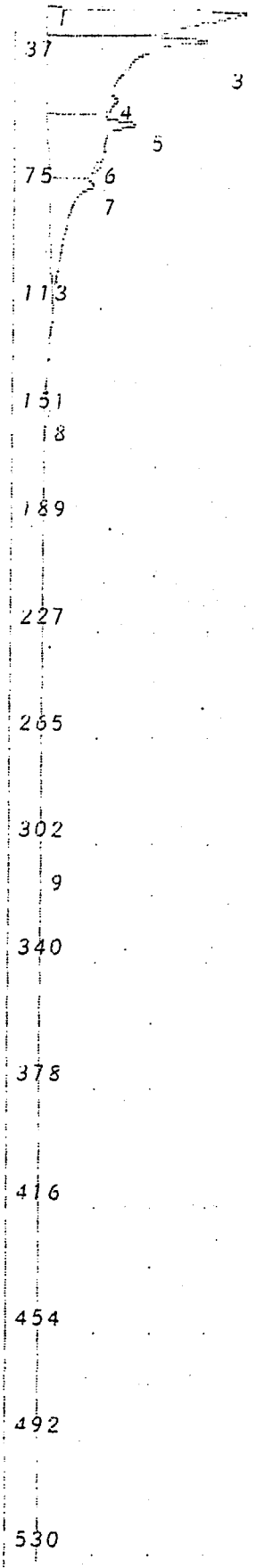
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	27.99 mVS	22.0
2	Unknown	23.71 mVS	31.9
3	Unknown	25.29 mVS	40.7
4	Unknown	42.62 mVS	54.2
5	Unknown	4.012 mVS	98.4
6	Toluene	2.734 ppb	154.4

189
227
265
302
340
378
416
454
492

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-005MW (GW) B

Analysis #3 TVS+ GC Function Analysis Report



Time Printed: Nov 4,94 12:29
Sample Time: Nov 4,94 12:20

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	32	C
Max Gain	1000	
Analysis Time	530.0	sec

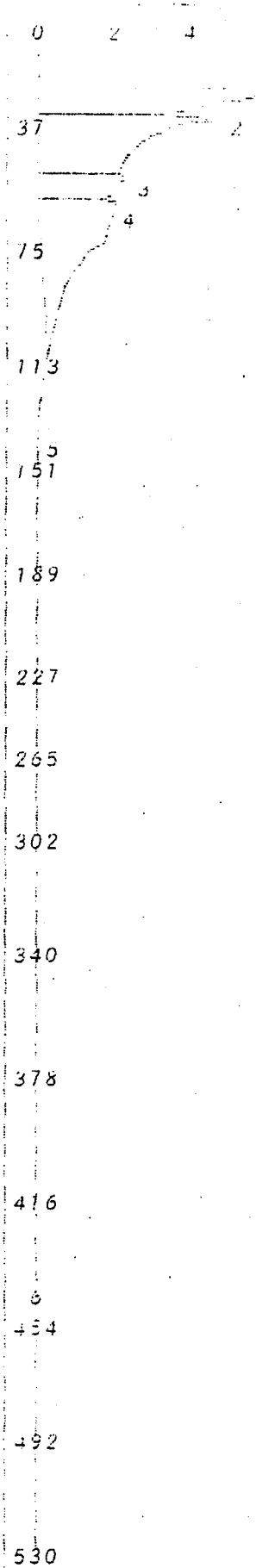
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	0.036	mVS	17.0
2	Unknown	68.66	mVS	19.7
3	Unknown	106.3	mVS	28.3
4	Unknown	1.060	mVS	46.3
5	Unknown	54.60	mVS	53.6
6	Unknown	1.448	mVS	62.0
7	Benzene	18.07	ppb	71.0
8	Toluene	2.180	ppb	147.2
9	Ethylbenzene	2.096	ppb	308.5

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-001MW 2'-4'

Analysis #8 — 10S+ GC Function Analysis Report



Time Printed: Nov 7,94 15:25
Sample Time: Nov 7,94 15:16

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

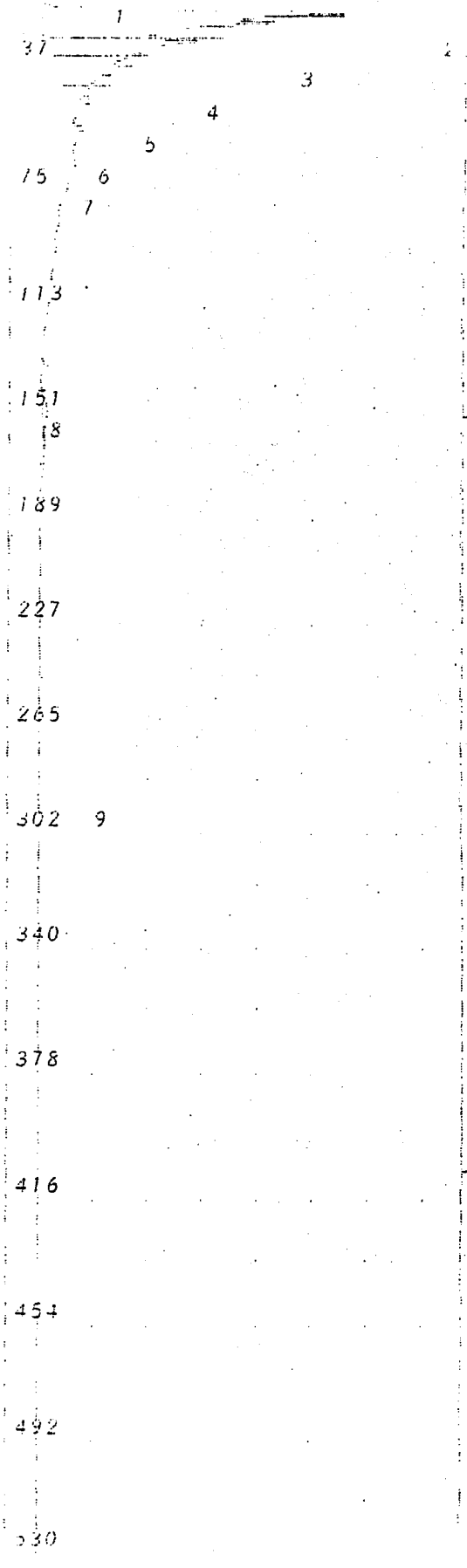
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	48.06	mVS	19.4
2	Unknown	57.96	mVS	28.4
3	Unknown	18.27	mVS	46.5
4	Unknown	46.96	mVS	54.4
5	Toluene	1.089	ppb	135.6
6	Unknown	1.965	mVS	433.6

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-002MW 1'-3'

Analysis #9 10S+ GC Function Analysis Report



Time Printed: Nov 7,94 15:37
Sample Time: Nov 7,94 15:28

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

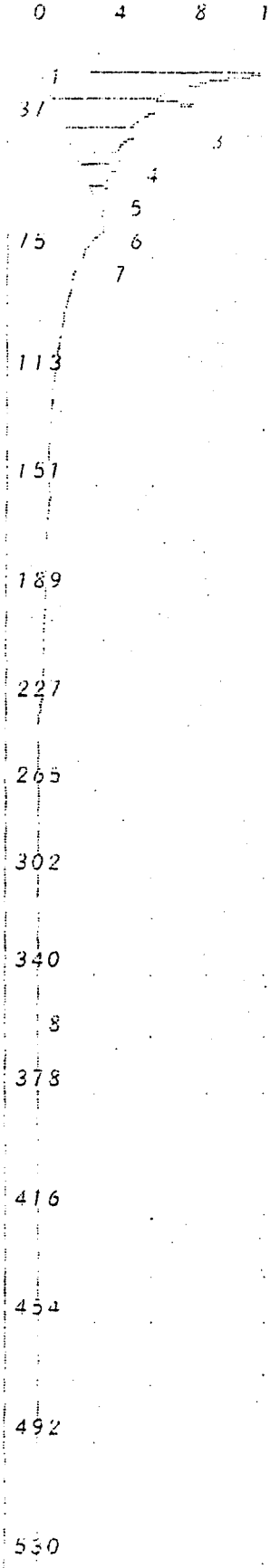
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	1.249	mVS	18.3
2	Unknown	19.58	mVS	19.6
3	Unknown	22.48	mVS	22.5
4	Unknown	19.73	mVS	28.6
5	Unknown	7.988	mVS	36.8
6	Unknown	0.499	mVS	46.8
7	Unknown	0.782	mVS	54.2
8	Toluene	2.061	ppb	147.0
9	Ethylbenzene	3.693	ppb	293.3

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-002MW 10'-12'

Analysis #12 10S+ GC Function Analysis Report



Time Printed: Nov 7,94 16:14
Sample Time: Nov 7,94 16:05

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

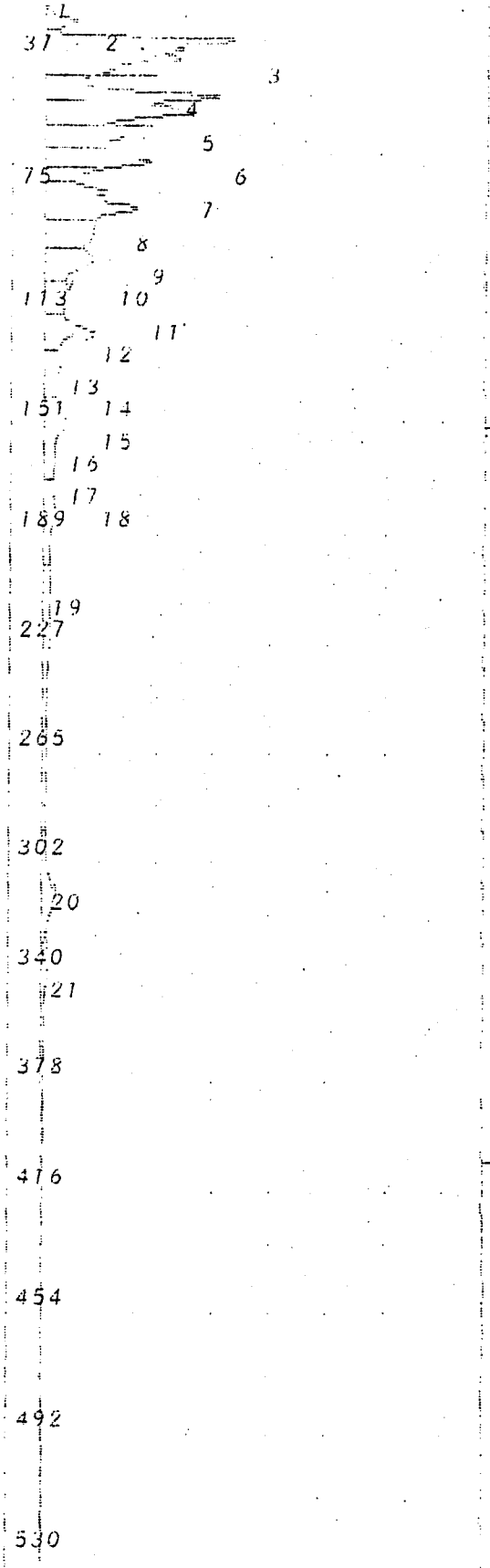
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	0.236	mVS	18.6
2	Unknown	66.53	mVS	20.1
3	Unknown	43.80	mVS	29.2
4	Unknown	19.45	mVS	38.5
5	Unknown	6.670	mVS	45.0
6	Unknown	7.959	mVS	47.6
7	Unknown	4.788	mVS	54.6
8	MP Xylene	1.051	ppb	348.3

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-003MW 1'-3'

Analysis #13 10S+ GC Function Analysis Report



Time Printed: Nov 7,94 16:30
Sample Time: Nov 7,94 16:17

Method

Slope Up	3.000	mV/Sec
Slope Down	3.000	mV/Sec
Min Area	1.000	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	17.94	mVS	20.0
2	Unknown	287.1	mVS	23.8
3	Unknown	1.350	VSec	29.7
4	Unknown	892.7	mVS	32.7
5	Unknown	1.378	VSec	35.4
6	Unknown	1.807	VSec	46.1
7	Unknown	1.590	VSec	50.2
8	Unknown	945.6	mVS	57.1
9	Unknown	1.598	VSec	64.2
10	Benzene	82.80	ppb	73.0
11	Unknown	1.981	VSec	77.7
12	Unknown	864.0	mVS	92.2
13	Unknown	720.7	mVS	101.7
14	Unknown	3.447	mVS	108.2
15	Unknown	1.001	VSec	116.6
16	Unknown	466.6	mVS	127.6
17	Toluene	96.29	ppb	148.0
18	Unknown	657.3	mVS	176.4
19	Unknown	1.119	VSec	203.4
20	Ethylbenzene	70.83	ppb	311.2
21	MP Xylene	1.002	ppm	335.7

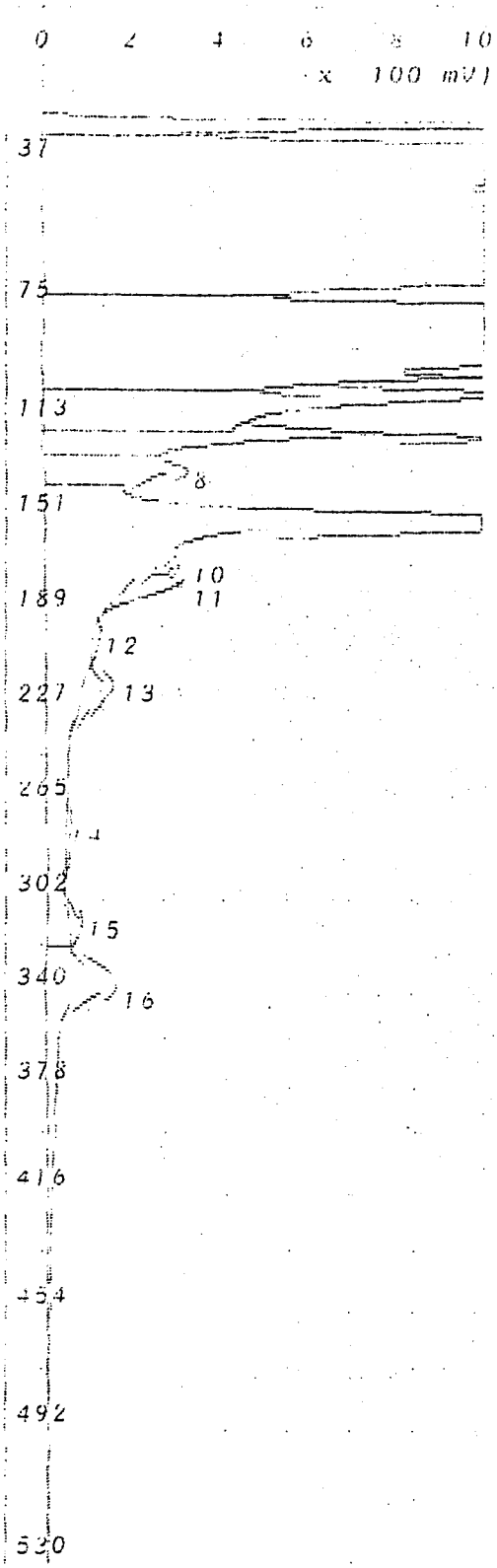
Notes

Billy Mitchell Air National Guard Base

Mark Escobar

04-003MW 5'-7'

Analysis #14 TCE+ GC Function Window Percent



Time Printed: Nov 7,94 16:42
Sample Time: Nov 7,94 16:33

Method

Slope Up	3.000	mV/Sec
Slope Down	3.000	mV/Sec
Min Area	1.000	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

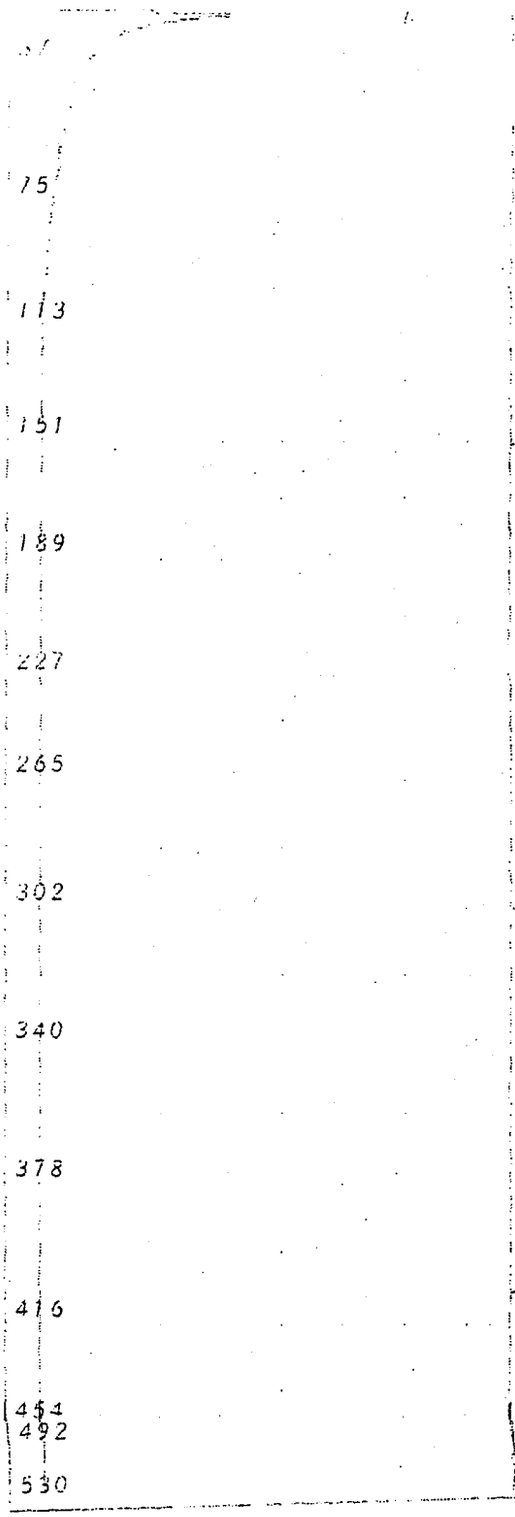
Pk	Compound Name	Area/Conc		R.T.
1	Unknown	3.487	VSec	25.2
2	Unknown	37.38	VSec	35.5
3	Unknown	128.2	VSec	54.0
4	Unknown	79.62	VSec	80.9
5	Unknown	7.747	VSec	93.7
6	Unknown	9.922	VSec	103.2
7	Unknown	7.813	VSec	118.0
8	Unknown	3.735	VSec	129.6
9	Toluene	21.40	ppm	151.2
10	Unknown	233.1	mVS	167.2
11	Unknown	860.8	mVS	177.0
12	Unknown	135.3	mVS	196.0
13	Unknown	853.0	mVS	218.0
14	Unknown	227.4	mVS	271.2
15	Ethylbenzene	40.47	ppb	312.2
16	MP Xylene	14.96	ppm	335.4

Notes

Billy Mitchell Air National Guard Base

Mark Escobar
04-003MW 10'-12'
10X Dilution

Analysis #8 10S+ GC Function Analysis Report



Time Printed: Nov 4,94 13:10

Method

Slope up	2.000	mV/Sec
Slope Down	2.000	mV/Sec
Min Area	2.000	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

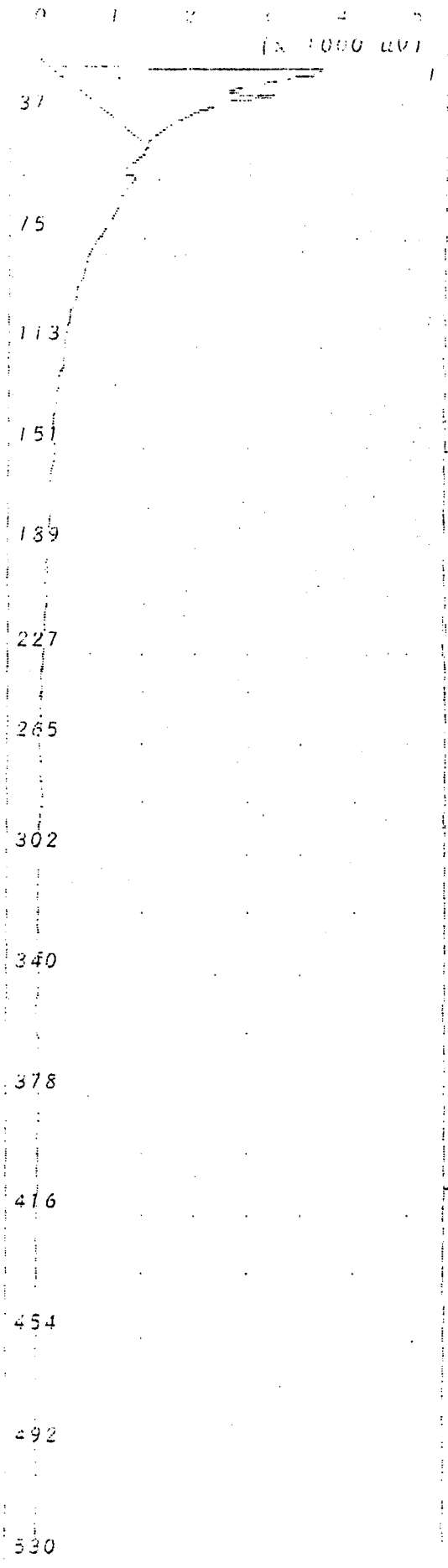
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	208.5 mVS	20.4

Notes

Billy Mitchell Air National Guard Base
MW06 MW06bar3
04-004mw 1-3'

Analysis #9 10S+ GC Function Analysis Report



Time Printed: Nov 4,94 14:00
Sample Time: Nov 4,94 13:51

Method

Slope Up	2.000	mV/Sec
Slope Down	2.000	mV/Sec
Min Area	2.000	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

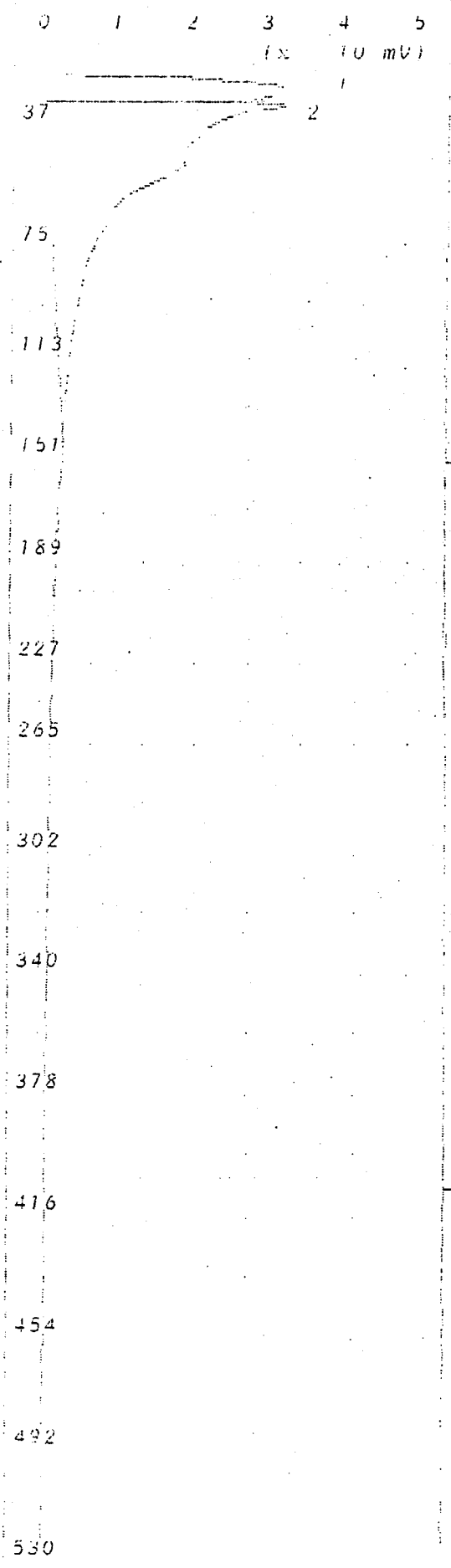
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	41.87 mVS	19.4

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-004MW 5'-7'

Analysis #12 IOS+ GC Function Analysis Report



Time Printed: Nov 4,94 14:36
Sample Time: Nov 4,94 14:27

Method

Slope Up	2.000	mV/Sec
Slope Down	2.000	mV/Sec
Min Area	2.000	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	mL/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

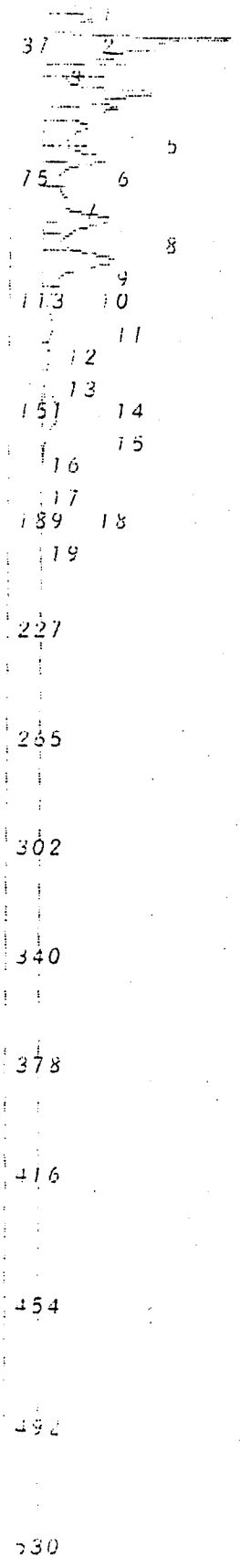
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	255.7 mVS	20.0
2	Unknown	852.1 mVS	28.8

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-004MW 10'-12'

Analysis #5 10S- GC Function Analysis Report



Time Printed: Nov 7,94 14:49
Sample Time: Nov 7,94 14:40

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	32	C
Max Gain	1000	
Analysis Time	530.0	sec

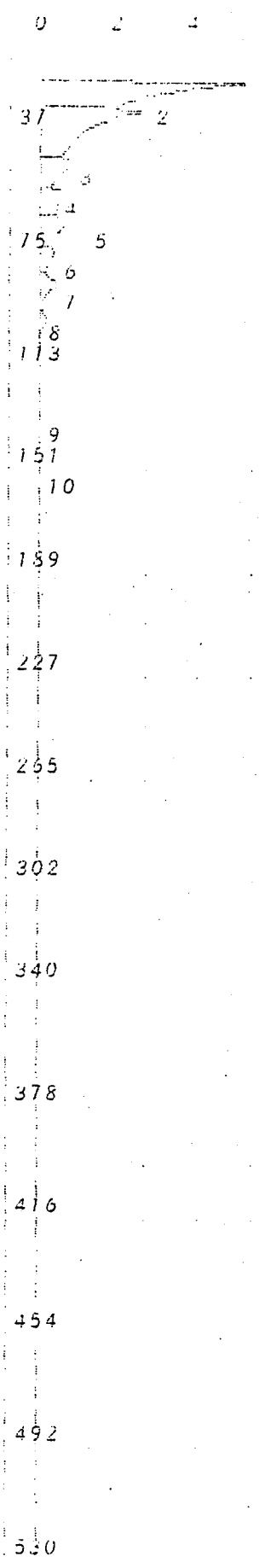
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	20.76	mVS	19.4
2	Unknown	24.54	mVS	23.0
3	Unknown	0.052	mVS	26.5
4	Unknown	51.20	mVS	28.3
5	Unknown	36.94	mVS	31.6
6	Unknown	22.73	mVS	34.2
7	Unknown	17.71	mVS	37.0
8	Unknown	55.61	mVS	44.2
9	Unknown	35.41	mVS	48.3
10	Unknown	35.66	mVS	53.6
11	Unknown	52.23	mVS	62.8
12	Benzene	5.277	ppb	71.0
13	Unknown	15.13	mVS	75.0
14	Unknown	55.58	mVS	80.4
15	Unknown	80.54	mVS	91.8
16	Unknown	18.73	mVS	114.1
17	Unknown	13.11	mVS	126.1
18	Toluene	49.56	ppb	142.4
19	Unknown	0.326	mVS	185.2

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-005MW 1'-3'

Analysis #6 — OVA GC Function Analysis Report



Time Printed: Nov 7,94 15:01
Sample Time: Nov 7,94 14:52

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	mL/min
B/F Flow	12	mL/min
Aux Flow	0	mL/min
Oven Temp	40	C
Amb Temp	32	C
Max Gain	1000	
Analysis Time	530.0	sec

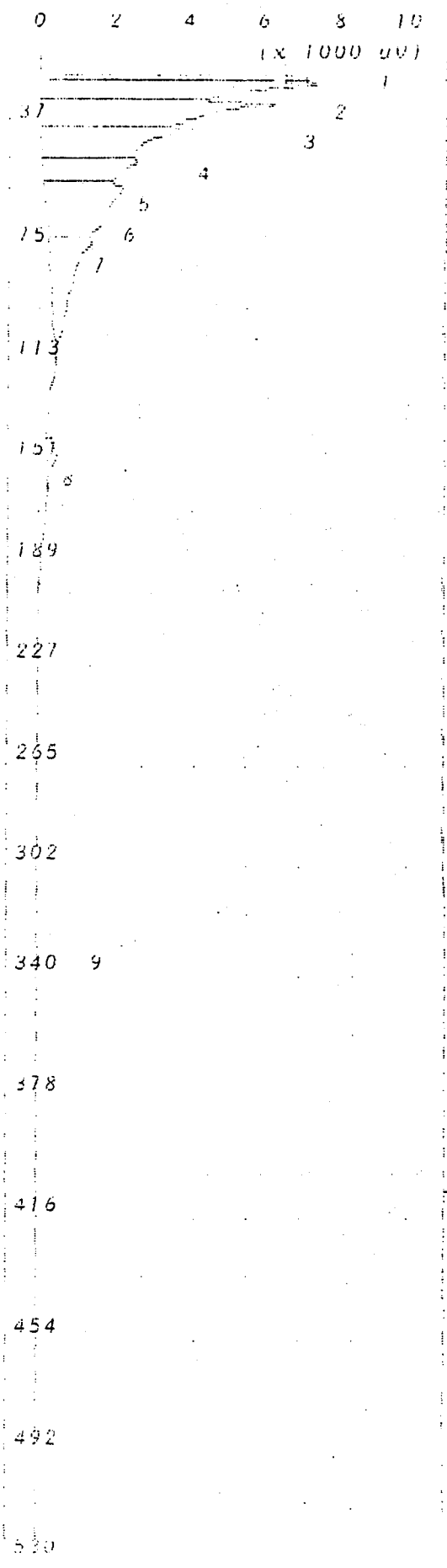
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	32.27	mVS	20.6
2	Unknown	25.88	mVS	29.4
3	Unknown	9.798	mVS	44.8
4	Unknown	5.956	mVS	54.4
5	Unknown	6.626	mVS	64.5
6	Benzene	2.195	ppb	72.5
7	Unknown	4.385	mVS	81.6
8	Unknown	2.024	mVS	92.5
9	Unknown	1.214	mVS	131.6
10	Toluene	1.279	ppb	146.6

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-005MW 5'-7'

Analysis #1 10S+ GC Function Analysis Report



Time Printed: Nov 7,94 15:13
Sample Time: Nov 7,94 15:04

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	32	C
Max Gain	1000	
Analysis Time	530.0	sec

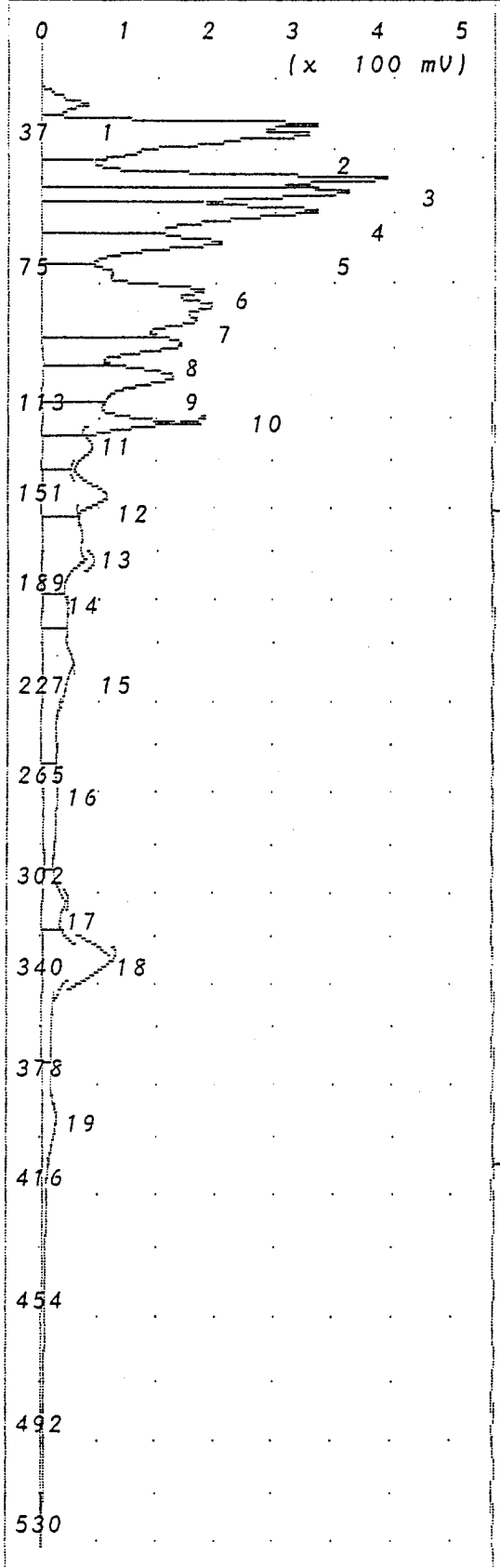
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	14.39 mVS	19.5
2	Unknown	39.57 mVS	21.4
3	Unknown	40.20 mVS	28.4
4	Unknown	30.43 mVS	36.6
5	Unknown	15.32 mVS	46.2
6	Unknown	29.75 mVS	54.2
7	Benzene	11.49 ppb	71.2
8	Toluene	3.627 ppb	146.4
9	MP Xylene	21.01 ppb	329.6

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-005MW 10'-12'

Analysis #5 10S+ GC Function Analysis Report



Time Printed: Oct 31,94 14:57
Sample Time: Oct 31,94 14:33

Method

Slope Up	3.000	mV/Sec
Slope Down	3.000	mV/Sec
Min Area	1.000	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

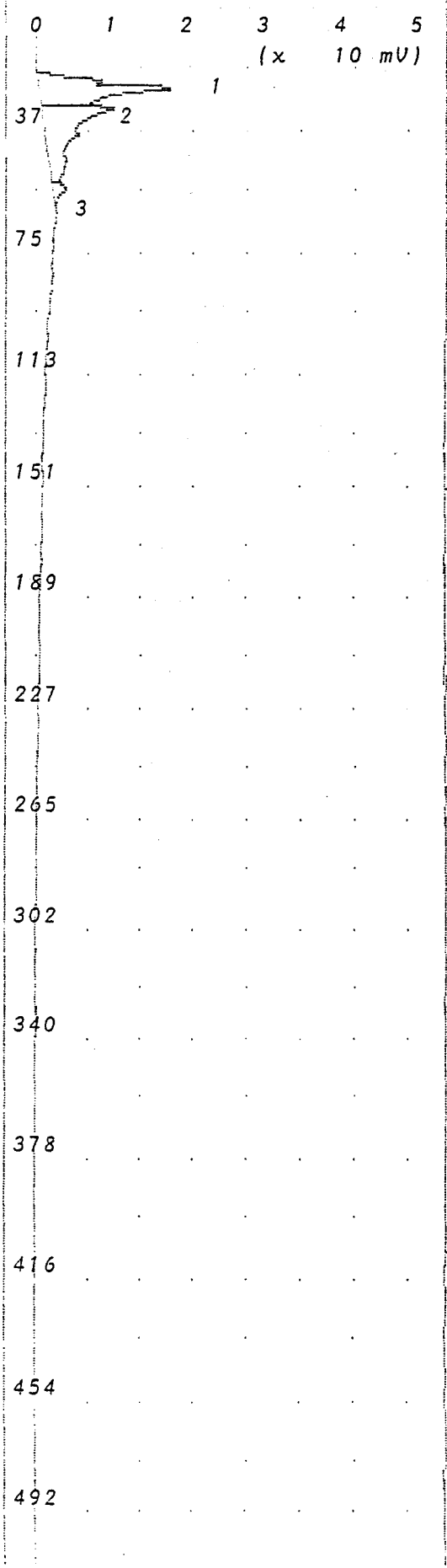
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	254.7	mVS	22.9
2	Unknown	2.547	VSec	28.4
3	Unknown	1.864	VSec	43.9
4	Unknown	1.153	VSec	47.8
5	Unknown	2.090	VSec	53.0
6	Unknown	1.145	VSec	61.6
7	Unknown	3.104	VSec	79.4
8	Unknown	989.4	mVS	90.1
9	Unknown	1.190	VSec	99.2
10	Unknown	1.726	VSec	112.9
11	Unknown	620.9	mVS	125.2
12	Toluene	432.4	ppb	145.6
13	Unknown	1.399	VSec	172.8
14	Unknown	491.1	mVS	192.2
15	Unknown	1.295	VSec	212.4
16	Unknown	629.4	mVS	264.8
17	Ethylbenzene	376.4	ppb	306.1
18	MP Xylene	3.270	ppm	329.6
19	O Xylene	2.615	ppm	383.6

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-001P~~8~~ 1'-3'

Analysis #6 10S+ GC Function Analysis Report



Time Printed: Oct 31,94 15:09
Sample Time: Oct 31,94 15:00

Method

Slope Up	3.000	mV/Sec
Slope Down	3.000	mV/Sec
Min Area	1.000	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

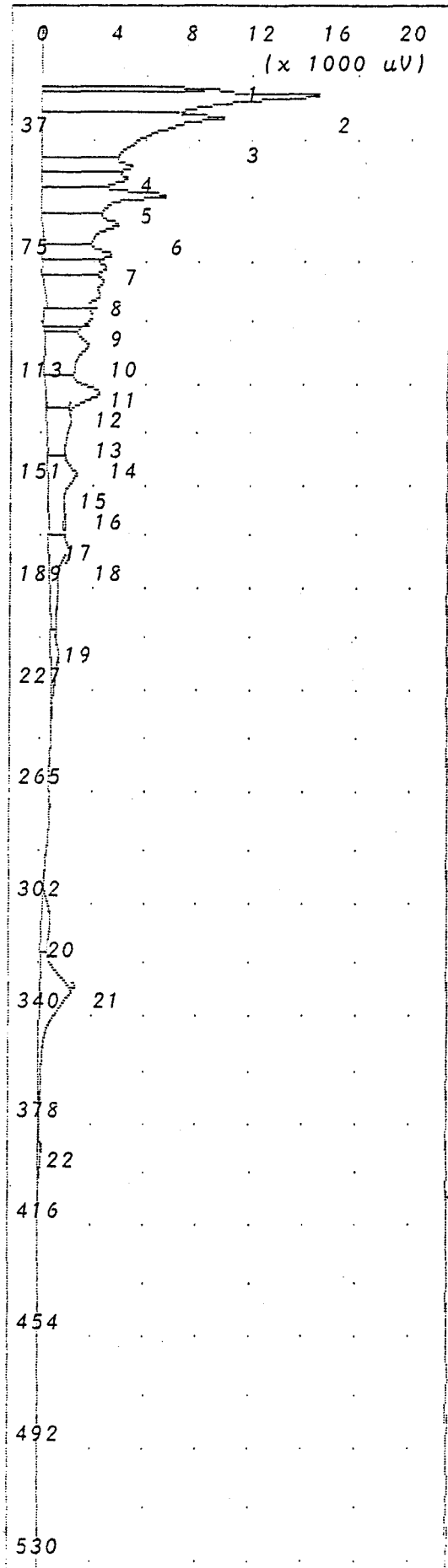
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	100.5	mVS	21.7
2	Unknown	90.09	mVS	28.6
3	Unknown	6.532	mVS	53.4

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-001P~~8~~ 5'-7'

Analysis #7 10S+ GC Function Analysis Report



Time Printed: Nov 1,94 09:48
Sample Time: Nov 1,94 09:39

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

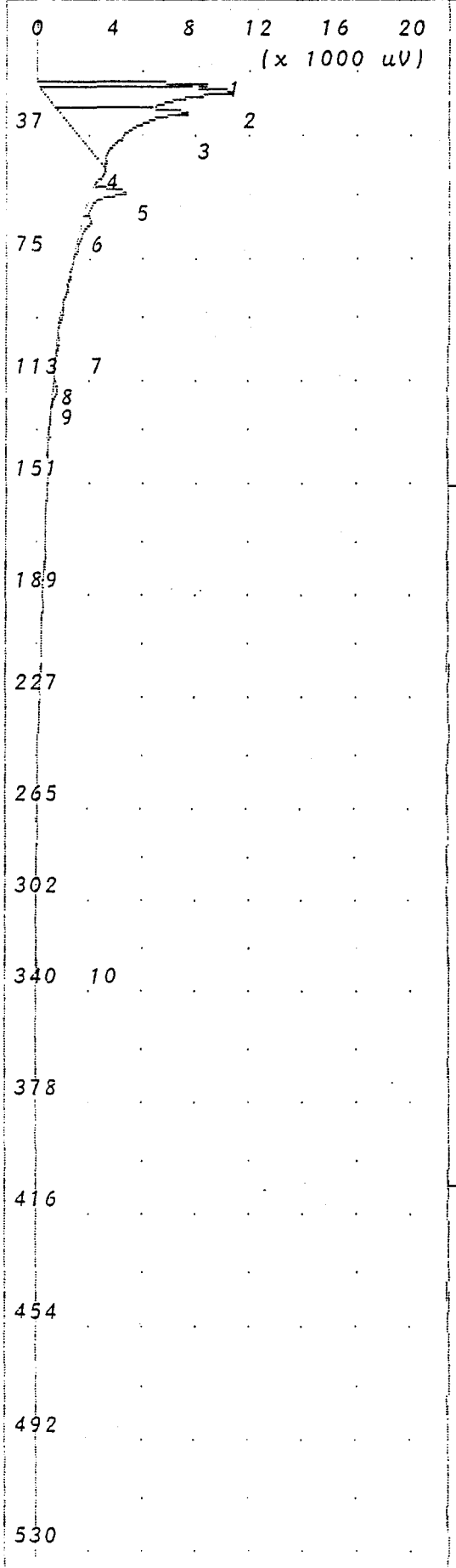
Pk	Compound Name	Area/Conc		R.T.
1	Unknown	15.71	mVS	19.6
2	Unknown	73.18	mVS	21.6
3	Unknown	92.68	mVS	28.4
4	Unknown	20.38	mVS	43.8
5	Unknown	18.78	mVS	47.7
6	Unknown	37.15	mVS	52.9
7	Unknown	31.21	mVS	61.8
8	Benzene	11.01	ppb	70.9
9	Unknown	13.35	mVS	74.9
10	Unknown	14.61	mVS	79.4
11	Unknown	14.67	mVS	83.4
12	Unknown	18.48	mVS	90.0
13	Unknown	25.59	mVS	99.0
14	Unknown	26.24	mVS	113.7
15	Unknown	16.61	mVS	125.4
16	Toluene	40.47	ppb	145.0
17	Unknown	0.178	mVS	163.6
18	Unknown	21.53	mVS	172.4
19	Unknown	8.332	mVS	210.4
20	Ethylbenzene	13.12	ppb	306.1
21	MP Xylene	188.6	ppb	328.8
22	O Xylene	9.673	ppb	387.0

Notes

Billy Mitchell Air National
Guard Station
Mark Escobar
~~Air Blank~~
04-002PZ 1-3' (R)

04-002PZ 1'-3'

Analysis #8 10S+ GC Function Analysis Report



Time Printed: Nov 1,94 10:03
Sample Time: Nov 1,94 09:51

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

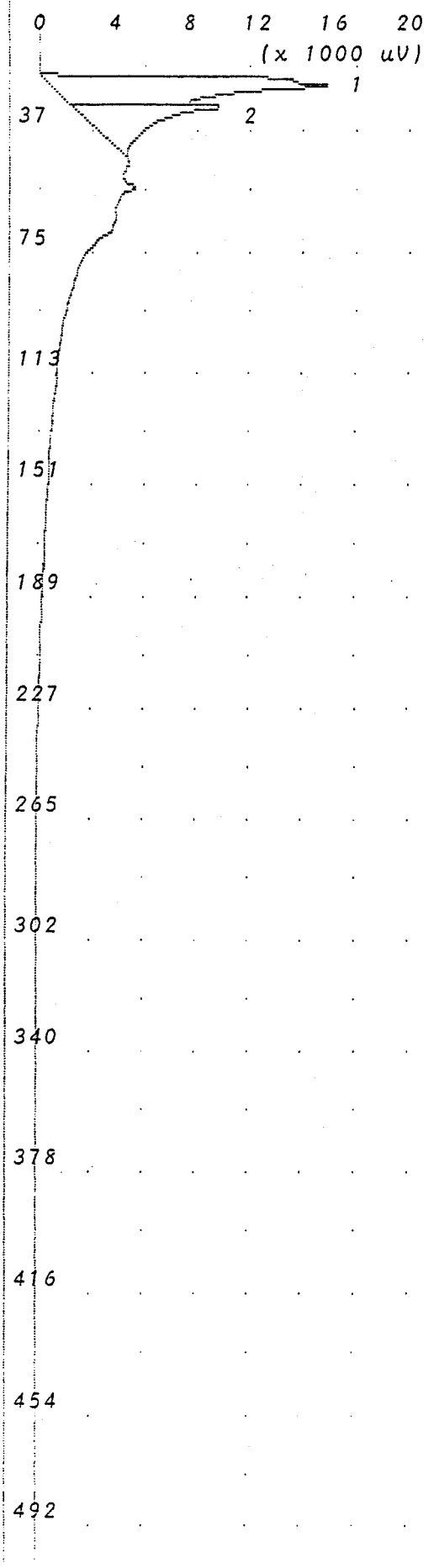
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	15.13 mVS	19.6
2	Unknown	49.34 mVS	22.2
3	Unknown	47.79 mVS	28.4
4	Unknown	0.112 mVS	43.8
5	Unknown	6.377 mVS	52.8
6	Unknown	2.453 mVS	61.8
7	Unknown	0.107 mVS	98.9
8	Unknown	1.072 mVS	113.8
9	Unknown	0.046 mVS	120.9
10	MP Xylene	13.52 ppb	329.3

Notes

Billy Mitchell Air National
Guard Station

Mark Escobar
04-002PZ 5'-7'

Analysis #7 10S+ GC Function Analysis Report



Time Printed: Oct 31,94 15:19
Sample Time: Oct 31,94 15:10

Method

Slope Up	3.000	mV/Sec
Slope Down	3.000	mV/Sec
Min Area	1.000	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

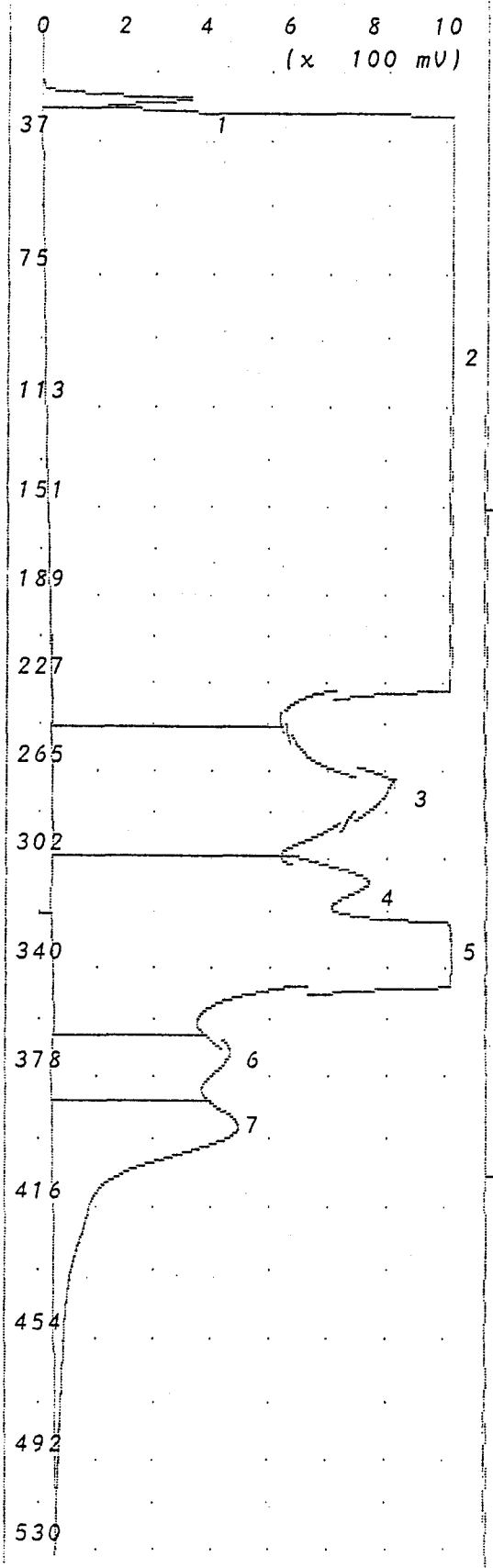
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	96.07 mVS	21.4
2	Unknown	47.35 mVS	28.2

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-003PZ 1'-3'

Analysis #8 10S+ GC Function Analysis Report



Time Printed: Oct 31,94 15:30
Sample Time: Oct 31,94 15:21

Method

Slope Up	3.000	mV/Sec
Slope Down	3.000	mV/Sec
Min Area	1.000	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

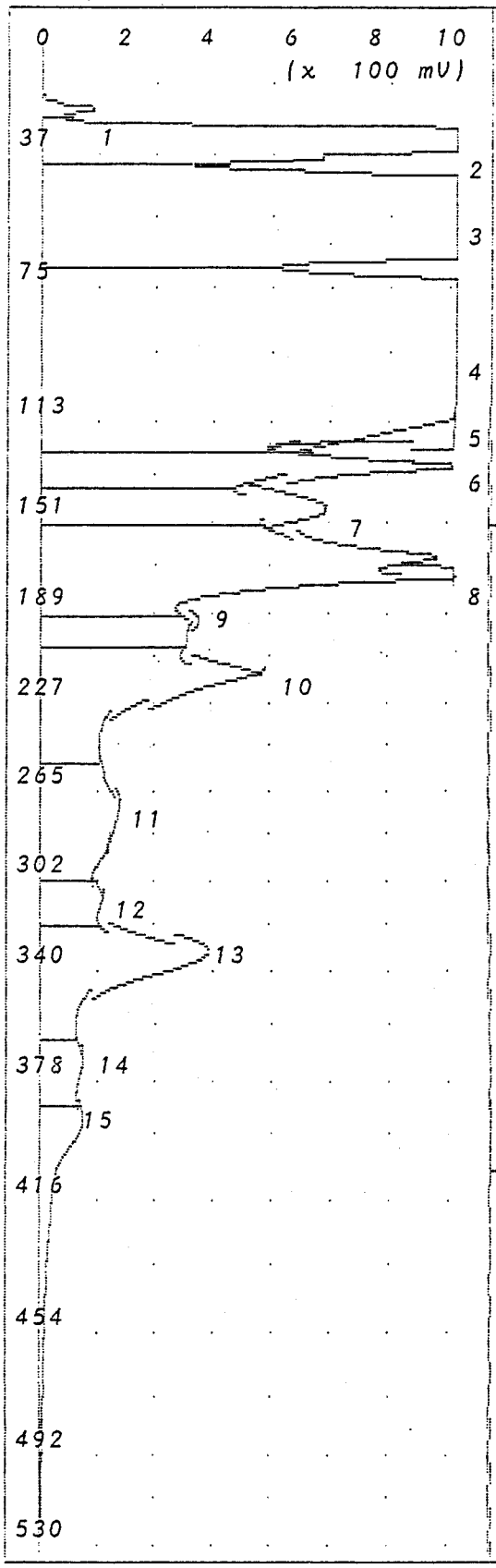
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	1.243	VSec	23.4
2	Unknown	8309.	VSec	96.1
3	Unknown	41.04	VSec	269.3
4	Ethylbenzene	7.350	ppm	310.4
5	MP Xylene	147.4	ppm	332.0
6	Unknown	9.228	VSec	368.6
7	O Xylene	54.94	ppm	390.6

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-003PZ 3'-5' Duplicate

Analysis #9 10S+ GC Function Analysis Report



Time Printed: Oct 31,94 15:41
Sample Time: Oct 31,94 15:32

Method

Slope Up	3.000	mV/Sec
Slope Down	3.000	mV/Sec
Min Area	1.000	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

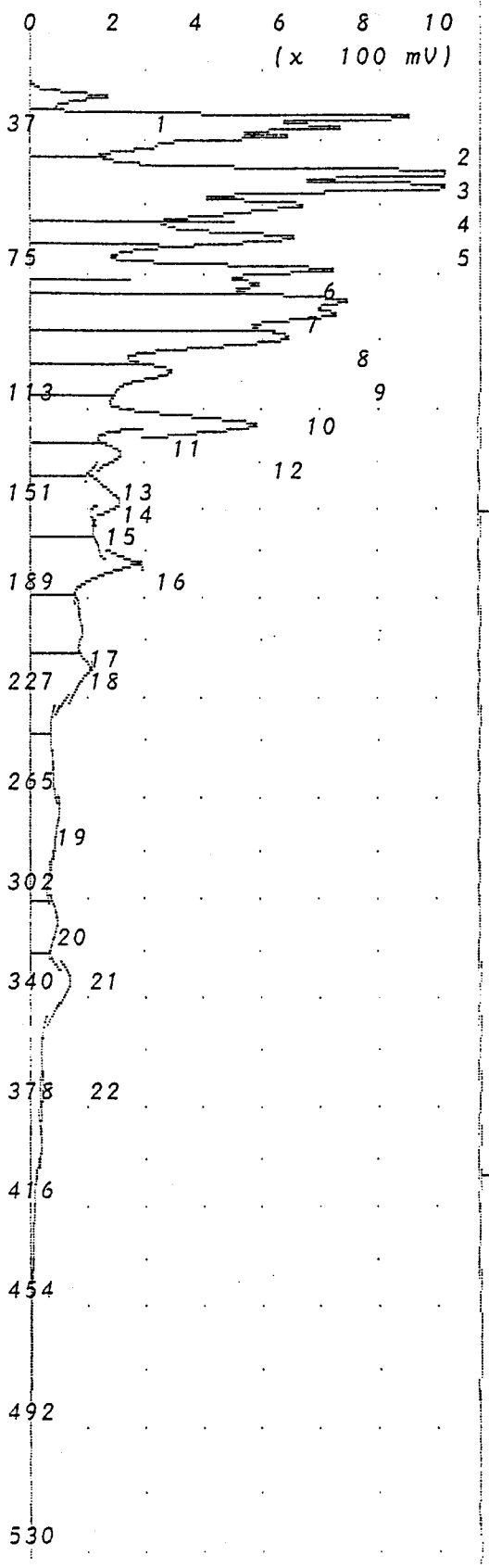
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	440.7	mVS	22.8
2	Unknown	32.80	VSec	31.2
3	Unknown	91.58	VSec	53.2
4	Unknown	315.3	VSec	90.2
5	Unknown	1.707	VSec	115.0
6	Unknown	9.325	VSec	126.9
7	Toluene	5.064	ppm	145.4
8	Unknown	25.61	VSec	174.0
9	Unknown	5.735	VSec	192.0
10	Unknown	14.19	VSec	214.4
11	Unknown	8.953	VSec	268.8
12	Ethylbenzene	1.379	ppm	309.3
13	MP Xylene	17.98	ppm	332.2
14	Unknown	2.231	VSec	369.0
15	O Xylene	14.64	ppm	390.0

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-003PZ 3'-5' Duplicate
5X Dilution

Analysis #10 10S+ GC Function Analysis Report



Time Printed: Oct 31,94 15:53
Sample Time: Oct 31,94 15:44

Method

Slope Up	3.000	mV/Sec
Slope Down	3.000	mV/Sec
Min Area	1.000	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

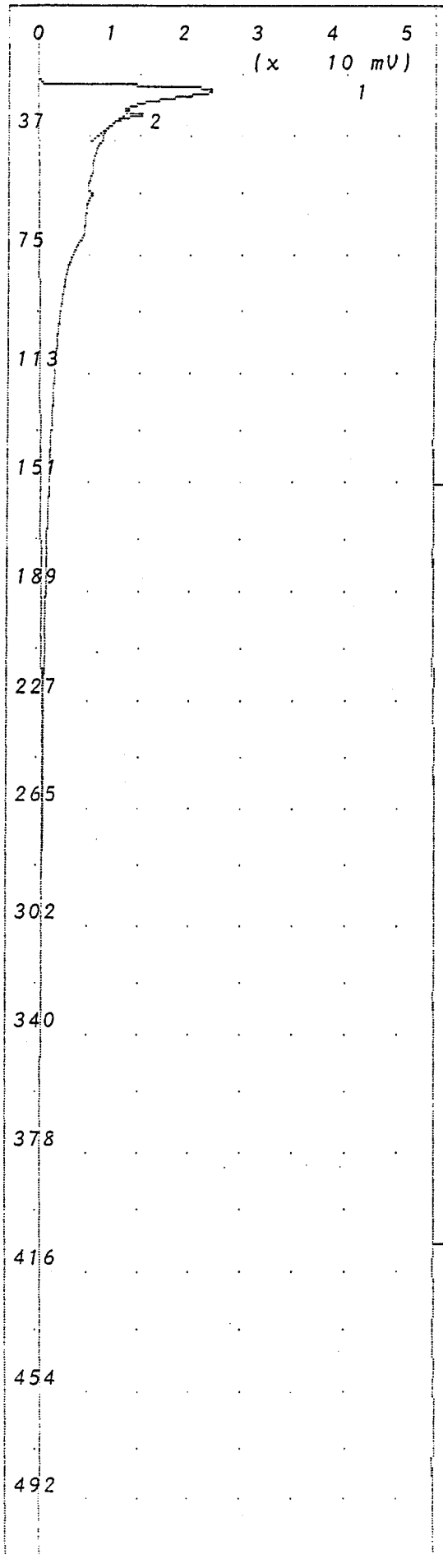
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	705.1	mVS	22.9
2	Unknown	6.922	VSec	29.0
3	Unknown	2.322	VSec	44.6
4	Unknown	2.336	VSec	45.6
5	Unknown	4.745	VSec	48.6
6	Unknown	3.321	VSec	53.6
7	Unknown	4.196	VSec	62.8
8	Benzene	1.863	ppm	71.8
9	Unknown	7.243	VSec	80.9
10	Unknown	3.882	VSec	90.8
11	Unknown	2.518	VSec	100.5
12	Unknown	5.234	VSec	115.4
13	Unknown	2.296	VSec	126.9
14	Toluene	2.037	ppm	147.0
15	Unknown	15.50	mVS	157.4
16	Unknown	4.737	VSec	175.4
17	Unknown	2.506	VSec	202.2
18	Unknown	3.296	VSec	214.6
19	Unknown	3.537	VSec	268.2
20	Ethylbenzene	731.7	ppb	310.1
21	MP Xylene	7.968	ppm	333.3
22	O Xylene	187.2	ppb	369.3

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
04-003PZ 5'-7'
2X Dilution

Analysis #14 10S+ GC Function Analysis Report



Time Printed: Oct 28,94 15:06
Sample Time: Oct 28,94 14:58

Method

Slope Up	0.500	mV/Sec
Slope Down	0.500	mV/Sec
Min Area	200.0	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

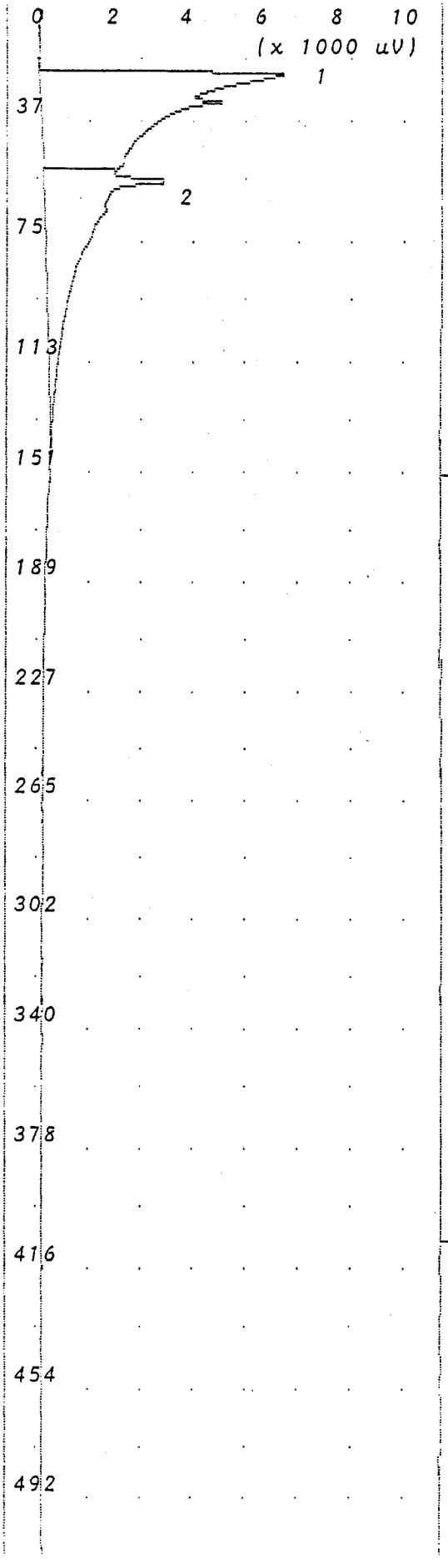
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	742.4 mVS	19.6
2	Unknown	2.964 mVS	28.6

Notes

Mark Escobar
Billy Mitchell Air
National Guard Base
04-004PZ 1'-3'

Analysis #13 10S+ GC Function Analysis Report



Time Printed: Oct 28,94 14:55
Sample Time: Oct 28,94 14:46

Method

Slope Up	0.500	mV/Sec
Slope Down	0.500	mV/Sec
Min Area	200.0	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

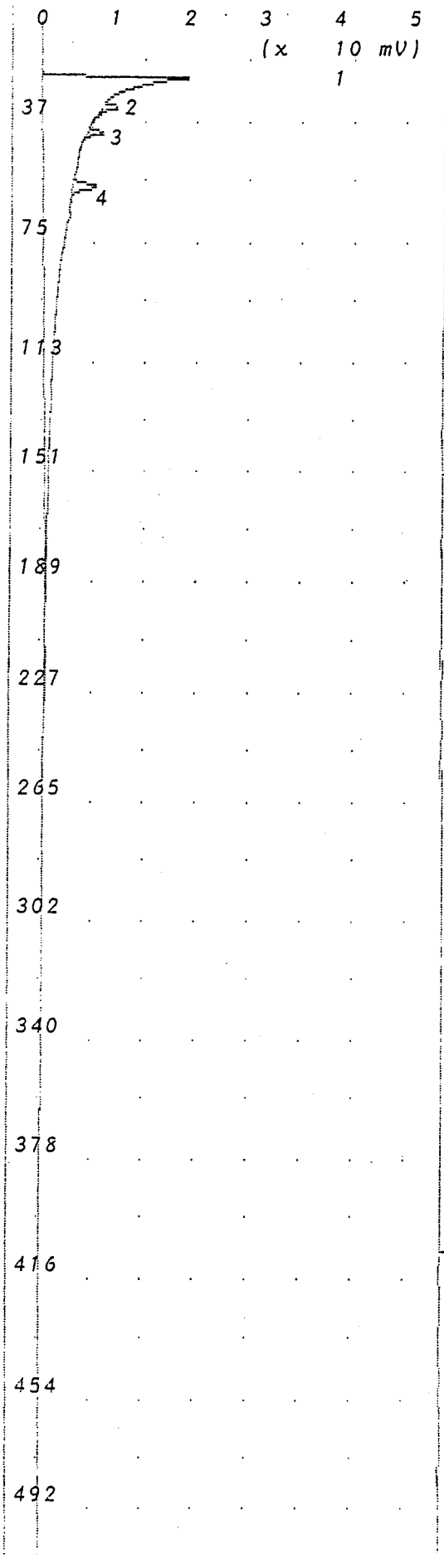
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	114.1 mVS	20.4
2	Unknown	66.57 mVS	54.4

Notes

Mark Escobar
Billy Mitchell Air
National Guard Base
04-004PZ 5'-7'

Analysis #15 10S+ GC Function Analysis Report



Time Printed: Oct 28,94 15:56
Sample Time: Oct 28,94 15:47

Method

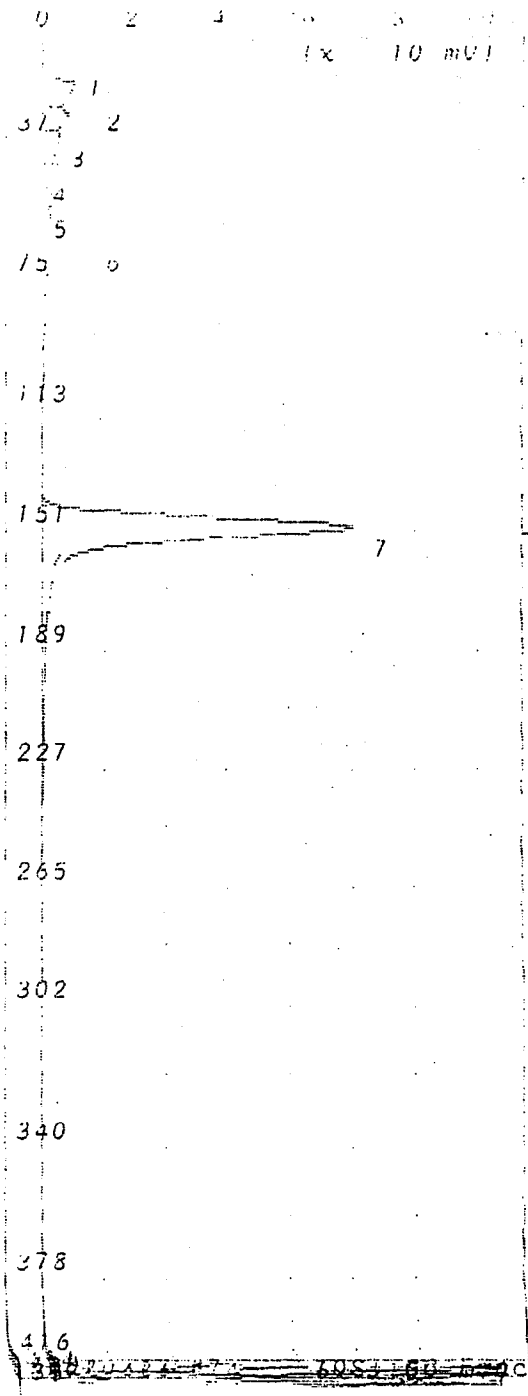
Slope Up	0.500	mV/Sec
Slope Down	0.500	mV/Sec
Min Area	200.0	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	462.1 mVS	21.4
2	Unknown	3.363 mVS	30.6
3	Unknown	2.758 mVS	38.7
4	Unknown	7.032 mVS	55.6

Notes

Mark Escobar
Billy Mitchell Air
National Guard Base
04-004PZ 8'-10'



Time Printed: Nov 4,94 12:40
Sample Time: Nov 4,94 12:31

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Area Reject	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

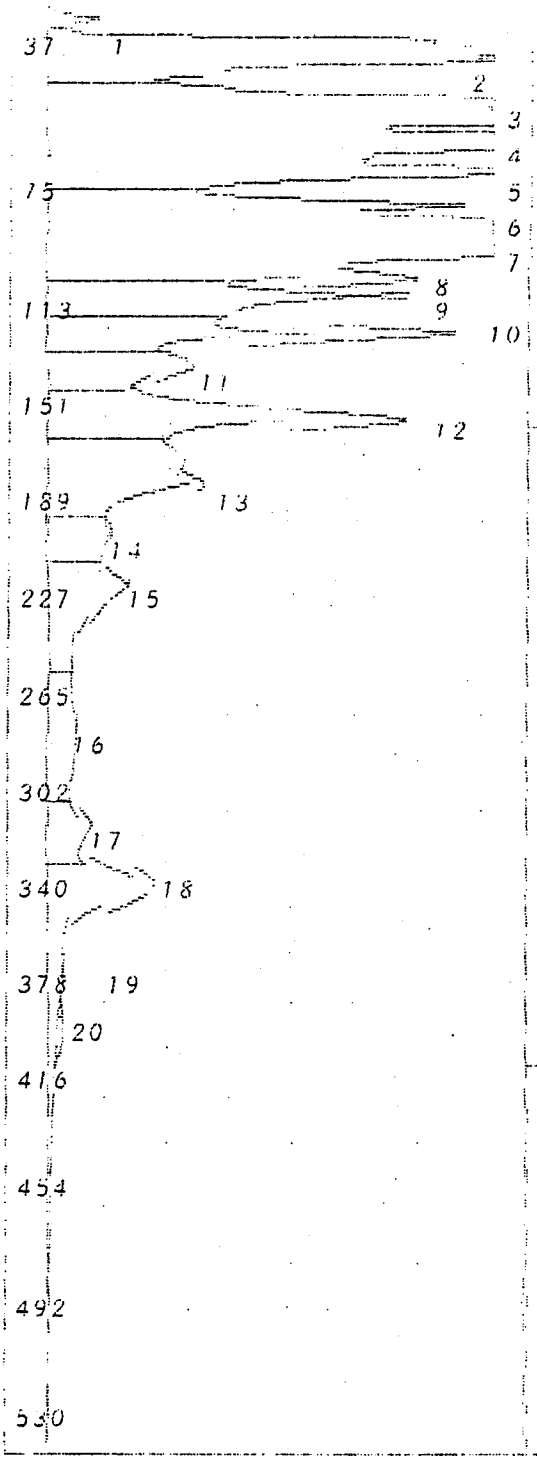
Pk	Compound Name	Area/Conc		R.T.
1	Unknown	53.89	mVS	19.8
2	Unknown	27.93	mVS	28.6
3	Unknown	9.079	mVS	34.4
4	Unknown	17.29	mVS	37.0
5	Unknown	11.43	mVS	43.9
6	Unknown	3.154	mVS	54.0
7	Toluene	280.5	ppb	148.0

Billy MITCHELL ANG BASE
MARK ESCOBAR
COH- 602P2 GW

Aux Flow 0 ml/min

Oven Temp 40 C

Analysis #7 10S+ GC Function Analysis Report



Time Printed: Nov 4,94 12:58
Sample Time: Nov 4,94 12:43

Method

Slope Up	2.000	mV/Sec
Slope Down	2.000	mV/Sec
Min Area	2.000	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	330.2	mVS	23.3
2	Unknown	14.39	VSec	30.6
3	Unknown	3.916	VSec	45.4
4	Unknown	6.651	VSec	47.2
5	Unknown	15.10	VSec	55.2
6	Unknown	6.670	VSec	63.0
7	Unknown	18.00	VSec	80.8
8	Unknown	4.006	VSec	91.6
9	Unknown	7.391	VSec	100.8
10	Unknown	1.977	VSec	115.6
11	Unknown	3.525	VSec	127.2
12	Toluene	5.224	ppm	148.0
13	Unknown	7.651	VSec	174.6
14	Unknown	2.059	VSec	193.0
15	Unknown	4.570	VSec	214.8
16	Unknown	2.963	VSec	268.2
17	Ethylbenzene	1.527	ppm	308.8
18	MP Xylene	20.17	ppm	332.2
19	Unknown	59.76	mVS	366.3
20	O Xylene	644.7	ppb	389.6

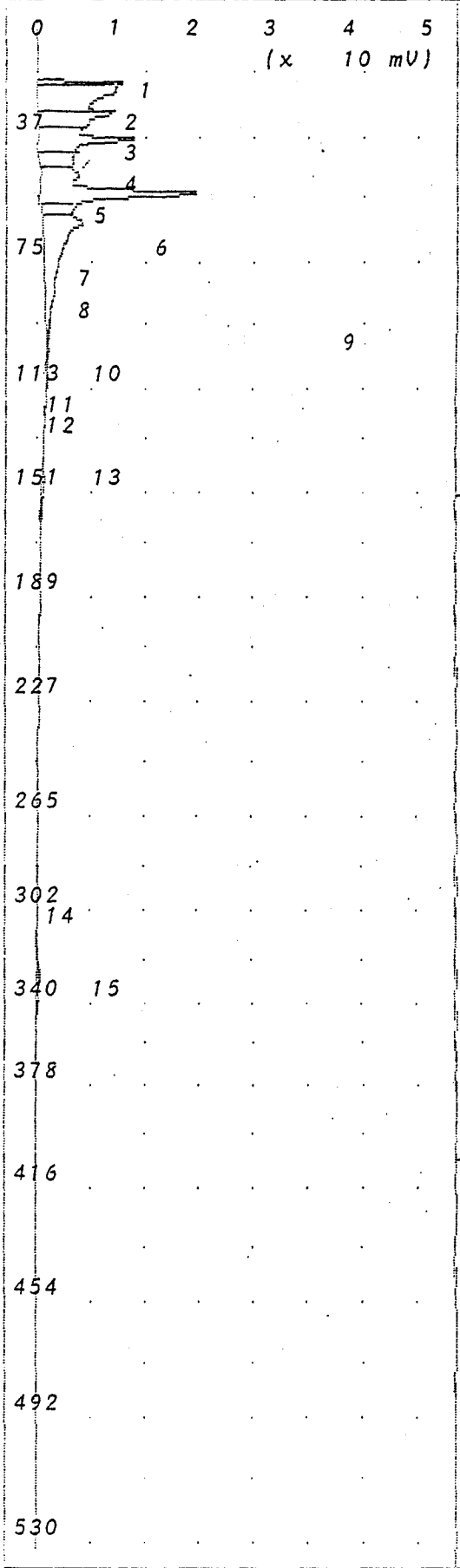
Notes

Billy Mitchell Air National Guard Base

Mark Escobar
04-003PZ GW

5X Dilution

Analysis #9 10S+ GC Function Analysis Report



Time Printed:	Nov 1,94	10:15
Sample Time:	Nov 1,94	10:06

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

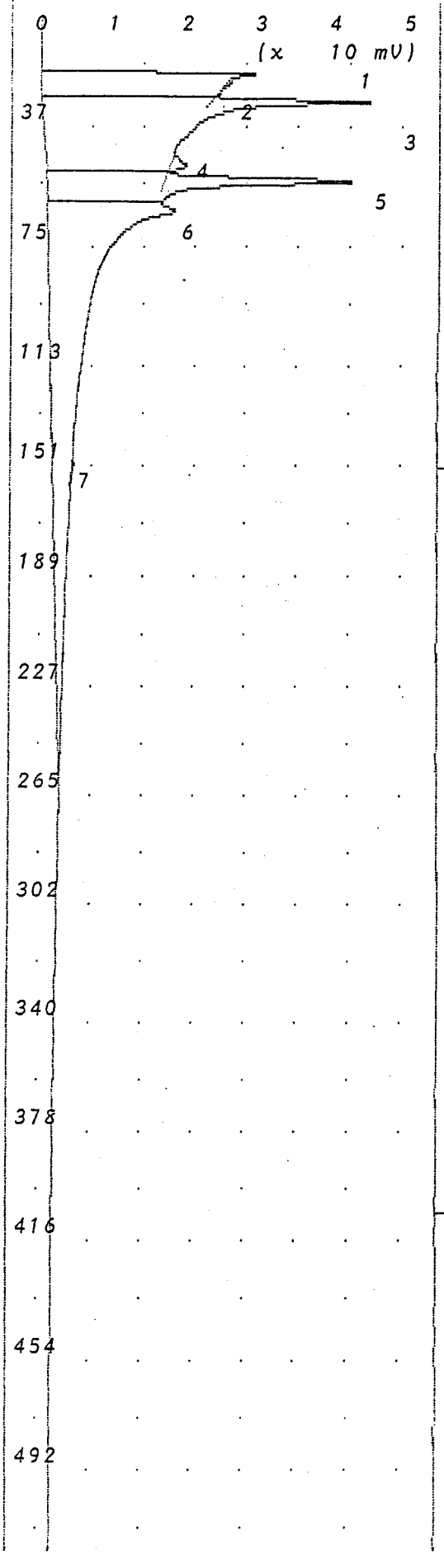
Pk	Compound Name	Area/Conc		R.T.
1	Unknown	20.84	mVS	19.3
2	Unknown	9.626	mVS	21.0
3	Unknown	43.51	mVS	22.0
4	Unknown	52.70	mVS	28.1
5	Unknown	0.382	mVS	30.7
6	Unknown	64.47	mVS	36.0
7	Unknown	0.306	mVS	43.7
8	Unknown	19.70	mVS	47.7
9	Unknown	79.29	mVS	52.2
10	Unknown	74.10	mVS	61.4
11	Unknown	0.358	mVS	90.1
12	Unknown	0.080	mVS	99.8
13	Toluene	2.497	ppb	145.0
14	Ethylbenzene	1.199	ppb	305.3
15	MP Xylene	27.96	ppb	329.3

Notes

Billy Mitchell Air National
Guard Station

Mark Escobar
04-004PZ GW

Analysis #14 10S+ GC Function Analysis Report



Time Printed: Oct 25,94 13:49
Sample Time: Oct 25,94 13:41

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

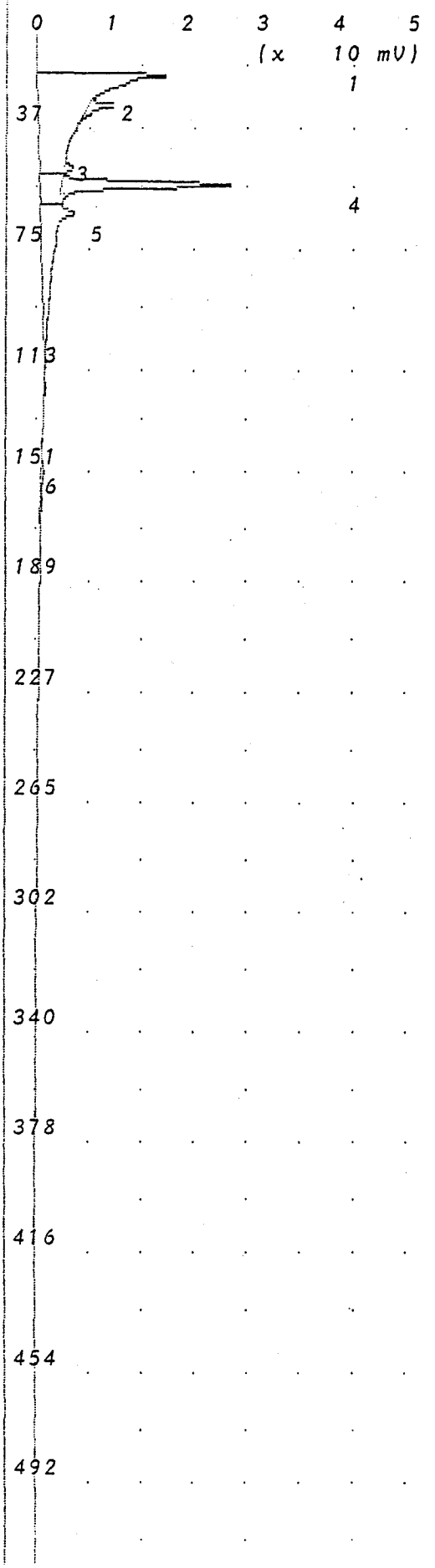
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	207.3 mVS	18.6
2	Unknown	0.563 mVS	21.7
3	Unknown	532.8 mVS	27.8
4	Unknown	6.444 mVS	47.7
5	Unknown	229.2 mVS	53.0
6	Unknown	672.5 mVS	61.9
7	Toluene	1.214 ppb	148.8

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
QA/QC DI Water

Analysis #15 10S+ GC Function Analysis Report



Time Printed: Oct 25,94 14:01
Sample Time: Oct 25,94 13:52

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

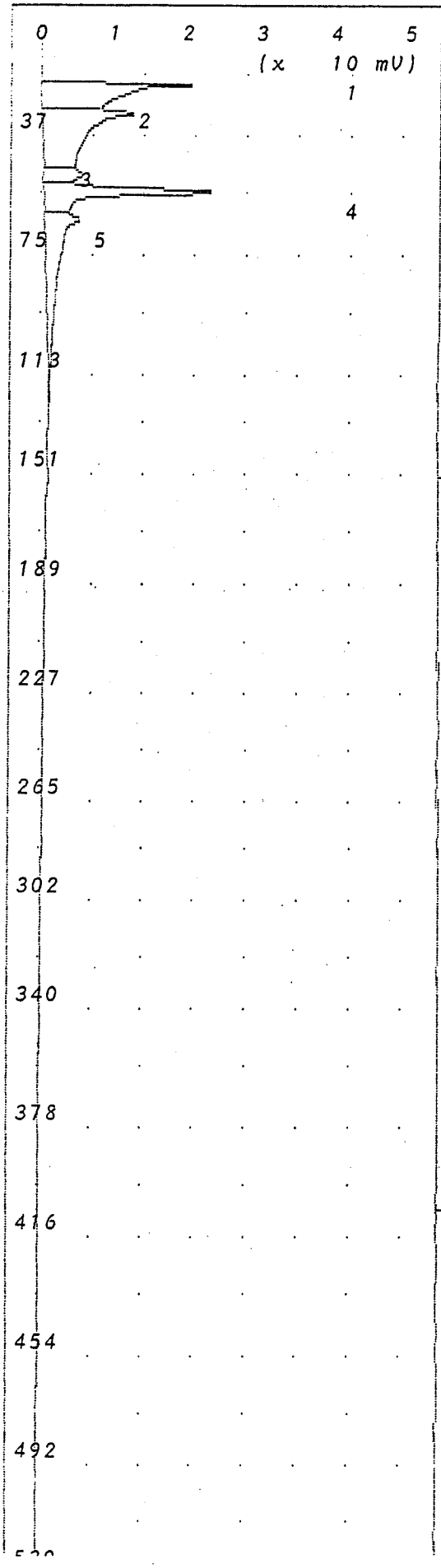
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	215.1	mVS	18.6
2	Unknown	8.071	mVS	28.2
3	Unknown	2.597	mVS	47.7
4	Unknown	86.24	mVS	52.3
5	Unknown	71.76	mVS	62.1
6	Toluene	1.765	ppb	149.0

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
QA/QC Bailer

Analysis #16 10S+ GC Function Analysis Report



Time Printed: Oct 25,94 14:12
Sample Time: Oct 25,94 14:03

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

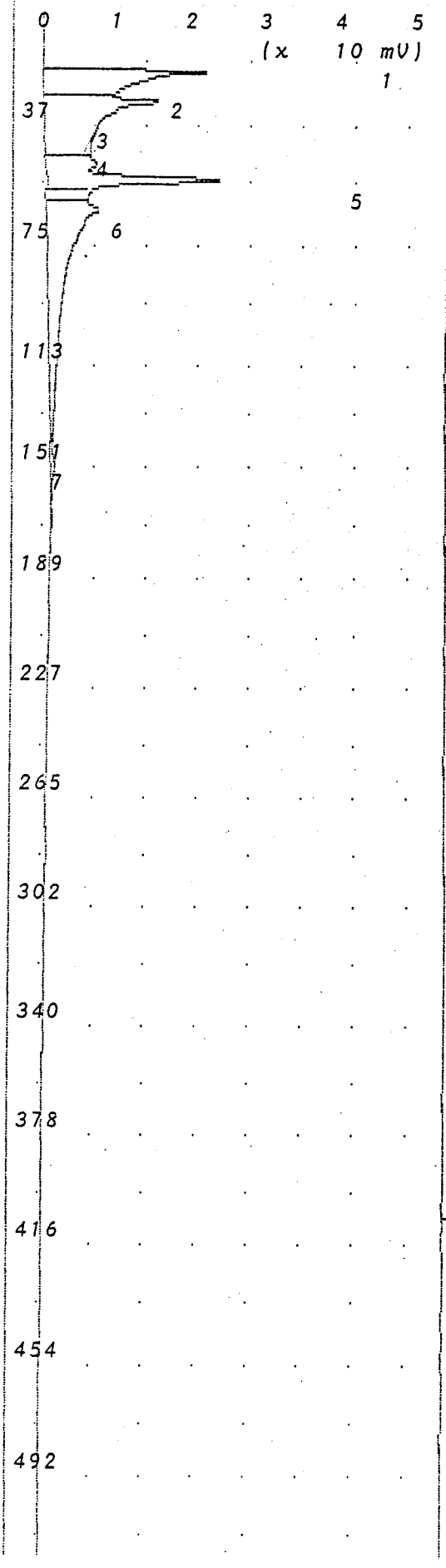
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	102.9 mVS	18.8
2	Unknown	124.1 mVS	28.3
3	Unknown	22.24 mVS	48.0
4	Unknown	84.11 mVS	52.7
5	Unknown	81.91 mVS	62.3

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
QA/QC Split Spoon

Analysis #19 10S+ GC Function Analysis Report



Time Printed: Oct 25,94 14:52
Sample Time: Oct 25,94 14:43

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

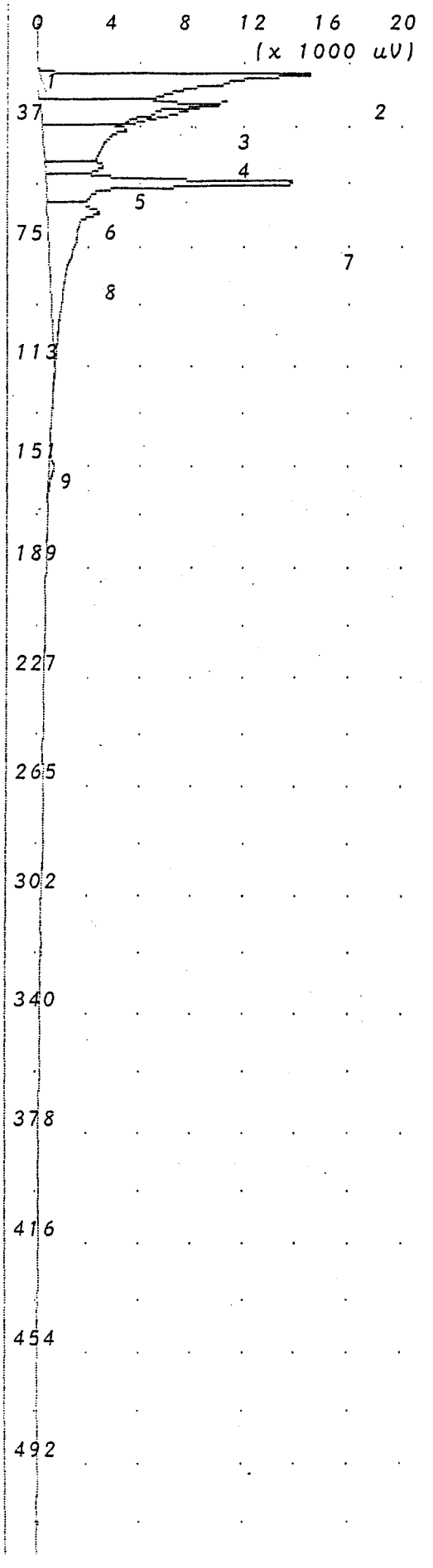
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	119.4	mVS	18.6
2	Unknown	155.9	mVS	28.1
3	Unknown	0.320	mVS	35.9
4	Unknown	33.13	mVS	47.8
5	Unknown	98.79	mVS	52.4
6	Unknown	174.8	mVS	62.0
7	Toluene	7.447	ppb	148.6

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
QA/QC Tubing

Analysis #20 10S+ GC Function Analysis Report



Time Printed: Oct 25,94 15:03
Sample Time: Oct 25,94 14:54

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

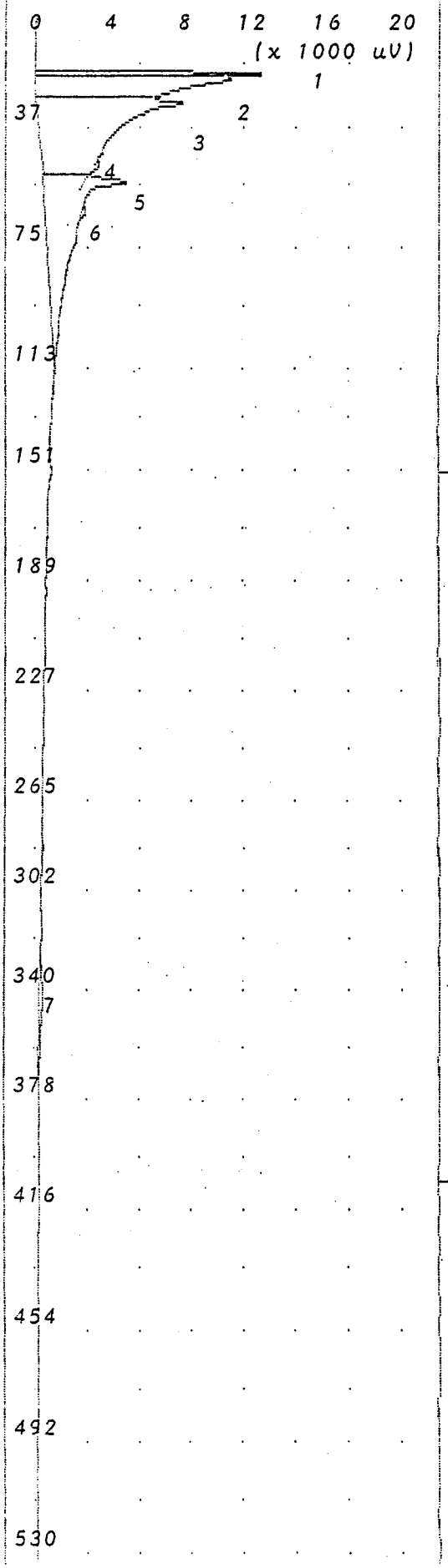
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	0.111	mVS	17.9
2	Unknown	80.34	mVS	19.3
3	Unknown	0.670	mVS	22.0
4	Unknown	52.00	mVS	28.6
5	Unknown	40.07	mVS	36.4
6	Unknown	11.97	mVS	48.2
7	Unknown	49.57	mVS	53.6
8	Unknown	49.03	mVS	62.4
9	Toluene	1.987	ppb	149.6

Notes

Mark Escobar
Billy Mitchell Air National Guard Base
QA/QC Steamer

Analysis #12 10S+ GC Function Analysis Report



Time Printed: Oct 27,94 12:24
Sample Time: Oct 27,94 12:15

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

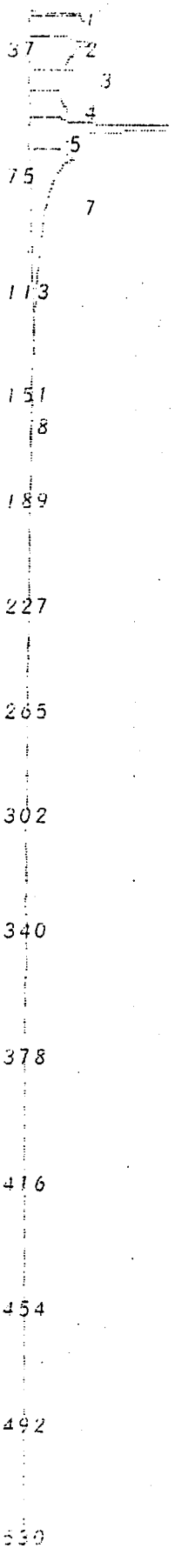
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	22.52	mVS	18.8
2	Unknown	57.02	mVS	20.7
3	Unknown	103.1	mVS	28.0
4	Unknown	0.494	mVS	47.3
5	Unknown	74.40	mVS	52.9
6	Unknown	0.341	mVS	61.9
7	MP Xylene	1.358	ppb	339.0

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
QA/QC Split Spoon (EQ)

Analysis # 6 10S+ GC Function Analysis Report



Time Printed: Nov 3,94 11:09
Sample Time: Nov 3,94 11:00

Method

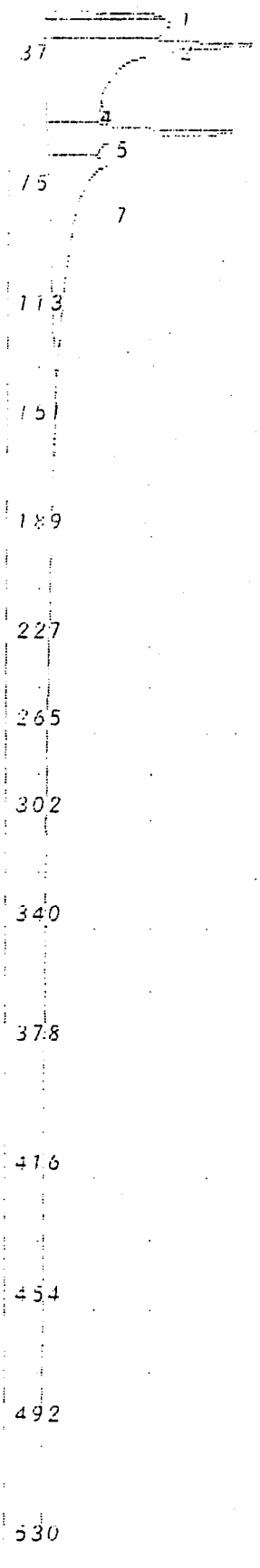
Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	20.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	11.55	mVS	20.0
2	Unknown	42.46	mVS	22.6
3	Unknown	27.30	mVS	29.0
4	Unknown	57.80	mVS	32.2
5	Unknown	37.16	mVS	49.2
6	Unknown	77.21	mVS	54.2
7	Benzene	71.30	ppb	63.3
8	Toluene	1.678	ppb	149.0

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
EB-Bailer



Time Printed: Nov 3,94 10:56
Sample Time: Nov 3,94 10:47

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	20.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

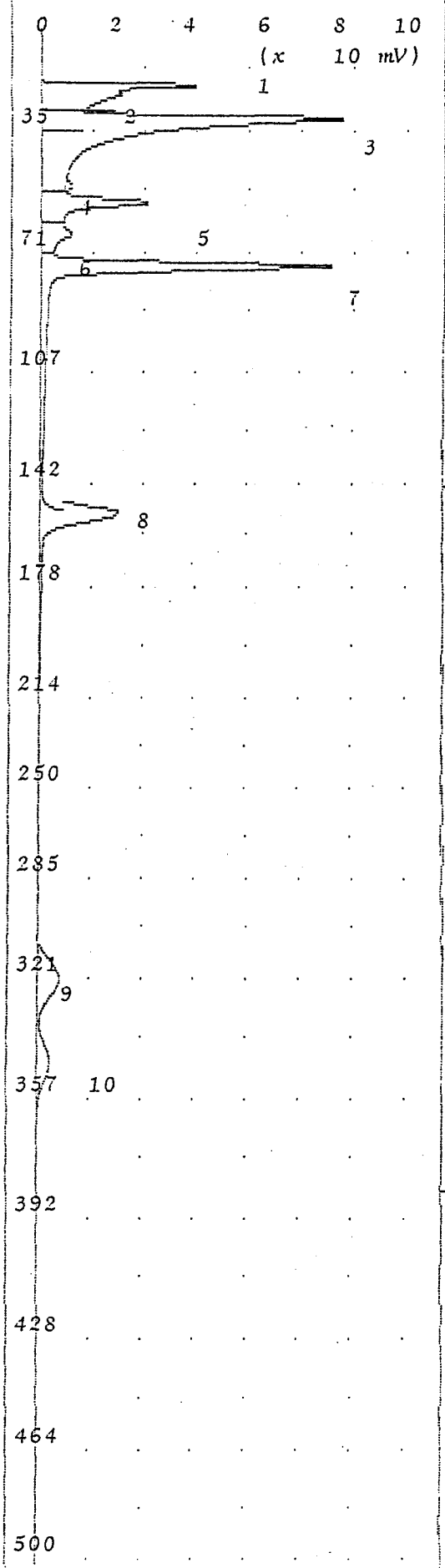
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	38.82	mVS	21.4
2	Unknown	85.89	mVS	22.7
3	Unknown	251.3	mVS	28.0
4	Unknown	0.203	mVS	44.0
5	Unknown	3.232	mVS	49.0
6	Unknown	101.3	mVS	53.6
7	Benzene	1.004	ppm	63.0

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
EB-SPLIT SPOON

Analysis #2 10S+ GC Function Analysis Report



Time Printed: Oct 20,94 09:42
Sample Time: Oct 20,94 09:33

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	15	ml/min
B/F Flow	15	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	32	C
Max Gain	1000	
Analysis Time	500.0	sec

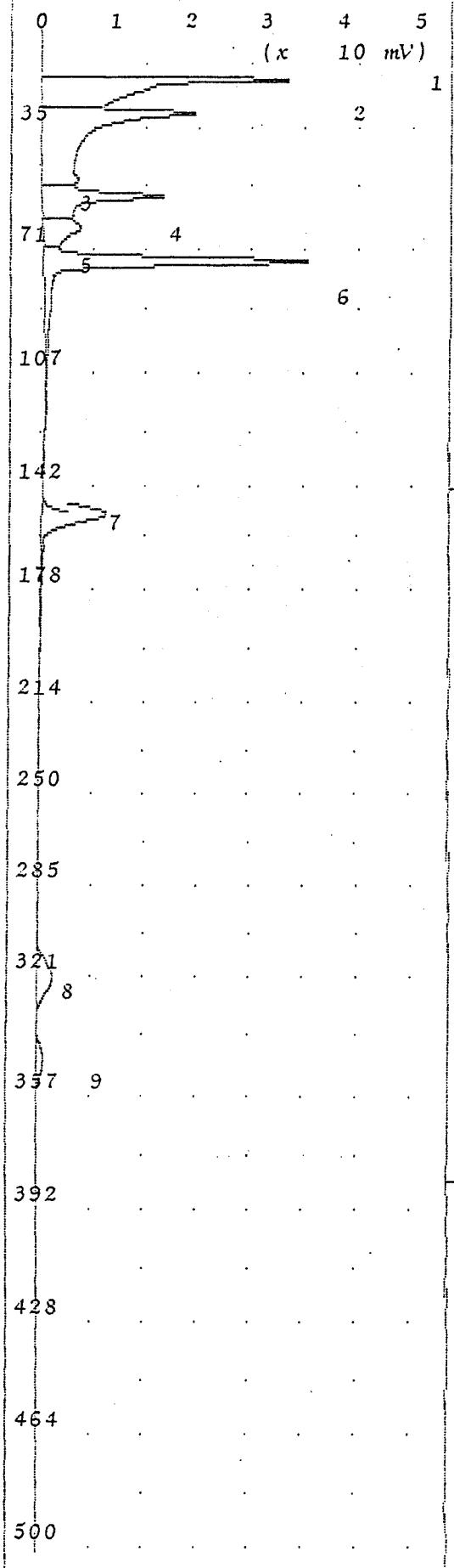
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	83.59	mVS	20.0
2	Unknown	112.4	mVS	22.2
3	Unknown	517.5	mVS	29.8
4	Unknown	3.851	mVS	49.5
5	Unknown	123.2	mVS	53.4
6	Unknown	50.62	mVS	63.5
7	Unknown	344.4	mVS	73.3
8	Unknown	151.3	mVS	151.0
9	Unknown	89.43	mVS	319.4
10	Unknown	65.81	mVS	344.6

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
BTEX Standards

Analysis #3 10S+ GC Function Analysis Report



Time Printed: Oct 20,94 09:54
Sample Time: Oct 20,94 09:45

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	15	ml/min
B/F Flow	15	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	500.0	sec

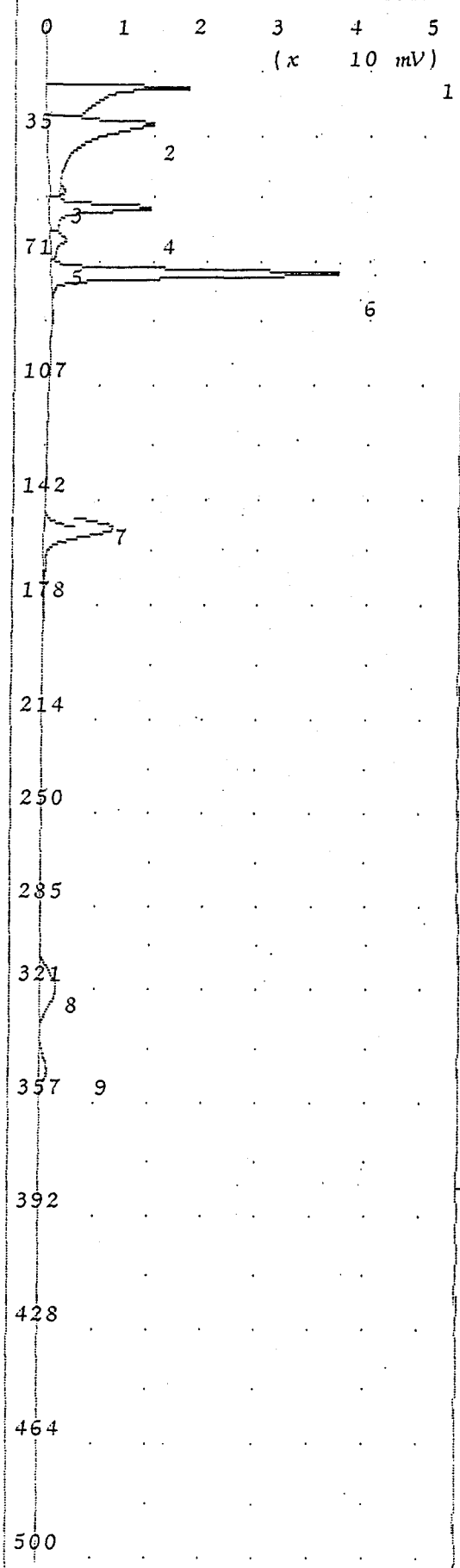
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	143.1	mVS	18.9
2	Unknown	168.7	mVS	28.8
3	Unknown	1.609	mVS	48.8
4	Unknown	69.09	mVS	53.8
5	Unknown	31.36	mVS	62.8
6	Unknown	128.8	mVS	72.5
7	Unknown	54.35	mVS	151.6
8	Unknown	36.15	mVS	317.3
9	Unknown	27.19	mVS	345.0

Notes

Mark Escobar
Billy Mitchell Air National Guard Base
BTEX Standard 100 ppb

Analysis #4 10S+ GC Function Analysis Report



Time Printed:	Oct 20,94	10:06
Sample Time:	Oct 20,94	09:58

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	15	ml/min
B/F Flow	15	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	500.0	sec

Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	80.39	mVS	19.1
2	Unknown	106.7	mVS	29.8
3	Unknown	1.365	mVS	48.8
4	Unknown	41.45	mVS	53.6
5	Unknown	10.38	mVS	62.7
6	Unknown	110.0	mVS	72.5
7	Unknown	55.92	mVS	151.4
8	Unknown	35.71	mVS	316.2
9	Unknown	27.22	mVS	343.6

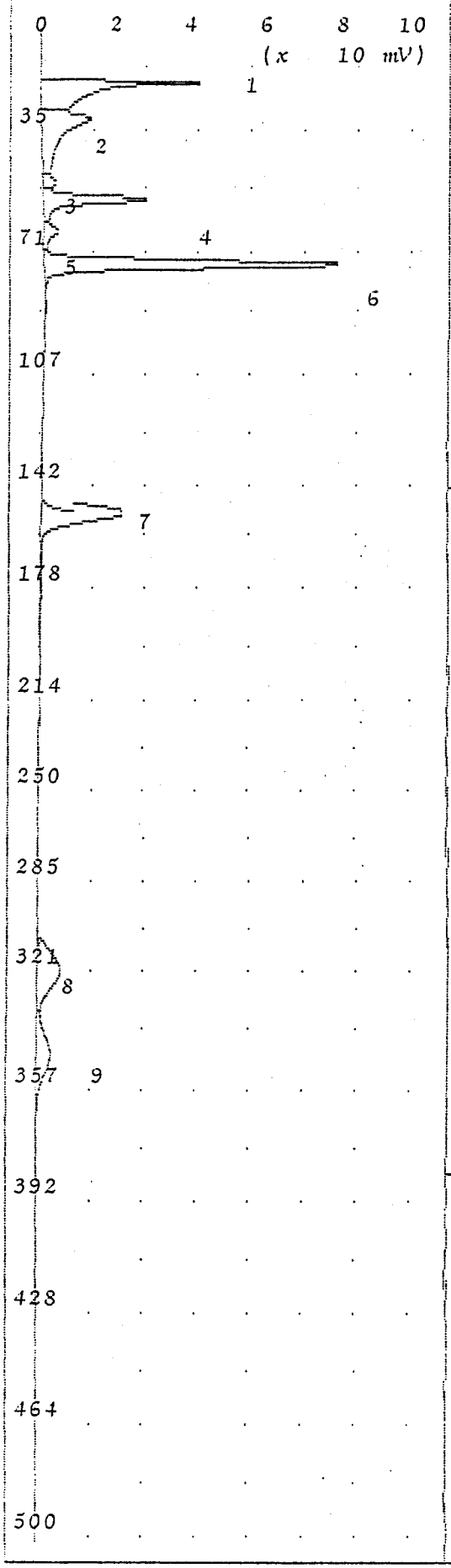
Notes

Mark Escobar

Billy Mitchell Air National Guard Base

BTEX Standard 100 ppb

Analysis #5 10S+ GC Function Analysis Report



Time Printed: Oct 20,94 10:18
Sample Time: Oct 20,94 10:09

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	15	ml/min
B/F Flow	15	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	500.0	sec

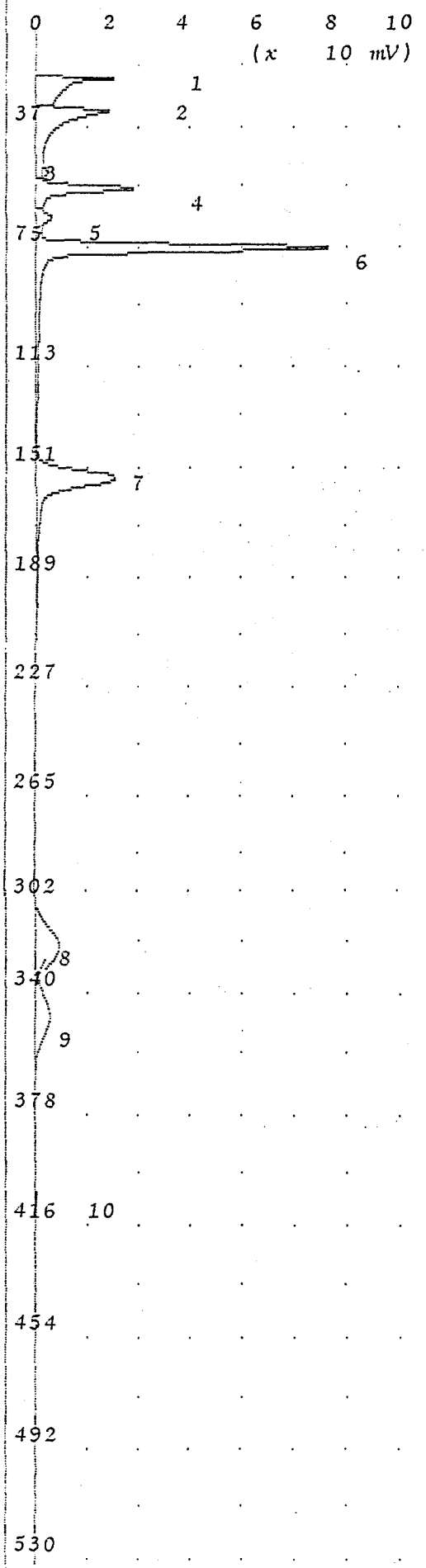
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	149.2	mVS	19.0
2	Unknown	106.3	mVS	30.0
3	Unknown	12.44	mVS	49.0
4	Unknown	82.08	mVS	53.1
5	Unknown	17.01	mVS	63.0
6	Unknown	239.1	mVS	72.6
7	Unknown	135.2	mVS	150.2
8	Unknown	85.62	mVS	318.9
9	Unknown	64.63	mVS	344.0

Notes

Mark Escobar
Billy Mitchell Air National Guard Base
BTEX Standard 100 ppb

Analysis #6 10S+ GC Function Analysis Report



Time Printed: Oct 20,94 10:29
Sample Time: Oct 20,94 10:20

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	15	ml/min
B/F Flow	15	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

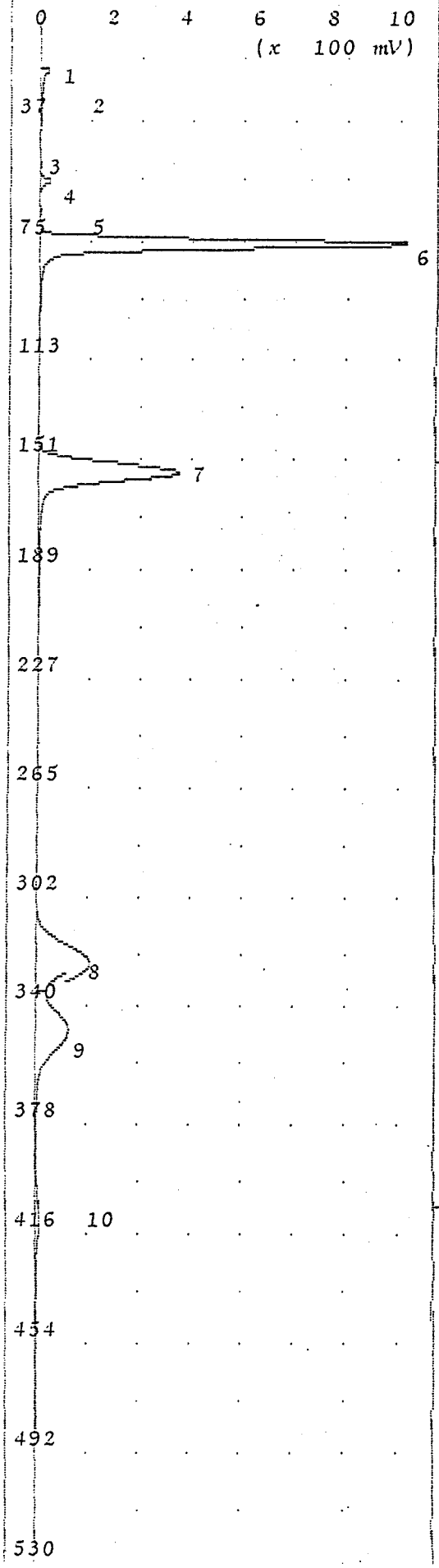
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	85.93	mVS	19.6
2	Unknown	134.6	mVS	30.0
3	Unknown	3.272	mVS	49.4
4	Unknown	84.42	mVS	53.8
5	Unknown	22.49	mVS	63.6
6	Unknown	299.9	mVS	73.4
7	Unknown	161.2	mVS	151.0
8	Unknown	98.72	mVS	320.0
9	Unknown	84.81	mVS	345.6
10	Unknown	29.35	mVS	407.3

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
BTEX Standard ~~100 ppb~~ ~~1ppm~~ (ME)
original
correct

Analysis #7 10S+ GC Function Analysis Report



Time Printed: Oct 20,94 10:47
Sample Time: Oct 20,94 10:38

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	15	ml/min
B/F Flow	15	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

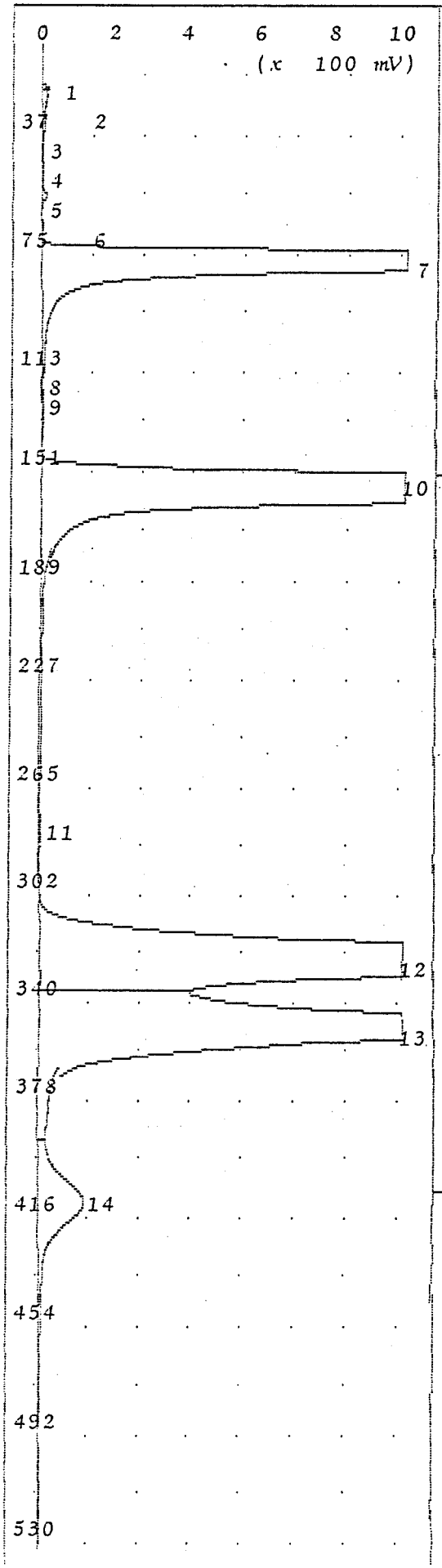
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	195.5	mVS	19.2
2	Unknown	6.160	mVS	29.2
3	Unknown	3.547	mVS	49.1
4	Unknown	85.07	mVS	53.6
5	Unknown	19.73	mVS	63.4
6	Benzene	1.423	ppm	73.8
7	Toluene	1.783	ppm	153.2
8	Ethylbenzene	2.134	ppm	321.3
9	MP Xylene	1.858	ppm	346.3
10	O Xylene	1.199	ppm	408.3

Notes

Mark Escobar
Billy Mitchell Air National Guard Base
BTEX Standard 100 ppb

Analysis #8 10S+ GC Function Analysis Report



Time Printed: Oct 20,94 11:03
Sample Time: Oct 20,94 10:54

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	15	ml/min
B/F Flow	15	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	35	C
Max Gain	1000	
Analysis Time	530.0	sec

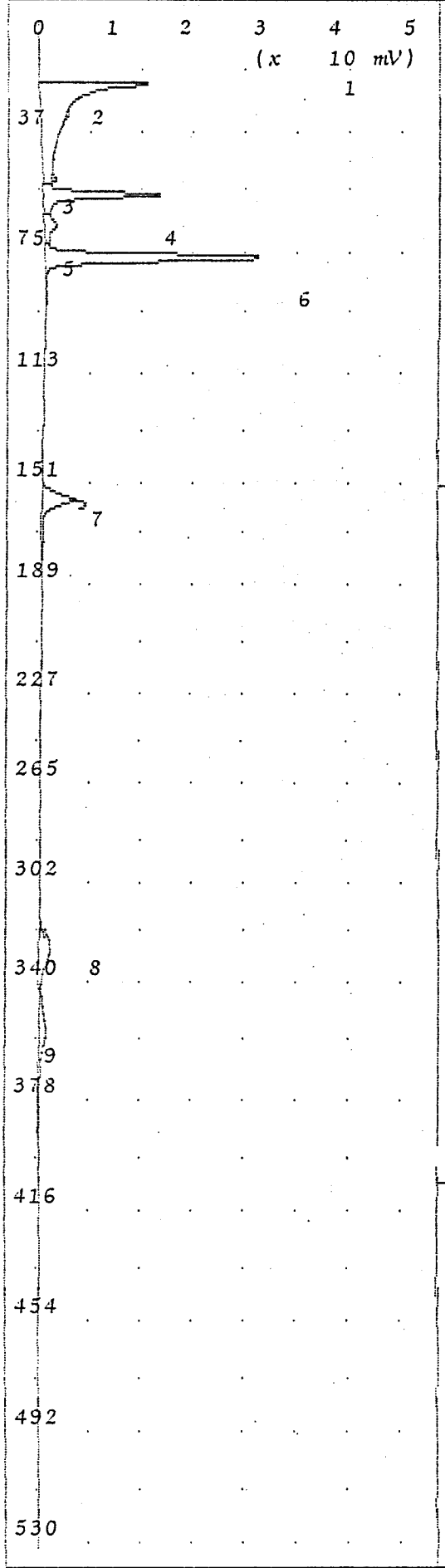
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	40.20	mVS	19.4
2	Unknown	88.33	mVS	22.0
3	Unknown	100.7	mVS	29.4
4	Unknown	10.03	mVS	49.4
5	Unknown	42.82	mVS	54.6
6	Unknown	6.125	mVS	63.7
7	Benzene	4.900	ppm	75.0
8	Unknown	4.415	mVS	110.5
9	Unknown	2.217	mVS	118.5
10	Toluene	7.522	ppm	153.8
11	Unknown	8.460	mVS	276.8
12	Ethylbenzene	13.86	ppm	322.4
13	MP Xylene	17.60	ppm	347.3
14	O Xylene	8.368	ppm	408.6

Notes

Mark Escobar
Billy Mitchell Air National Guard Base
BTEX Standard 10 ppm

Analysis #9 10S+ GC Function Analysis Report



Time Printed: Oct 20,94 14:28
Sample Time: Oct 20,94 14:19

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	15	ml/min
B/F Flow	15	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

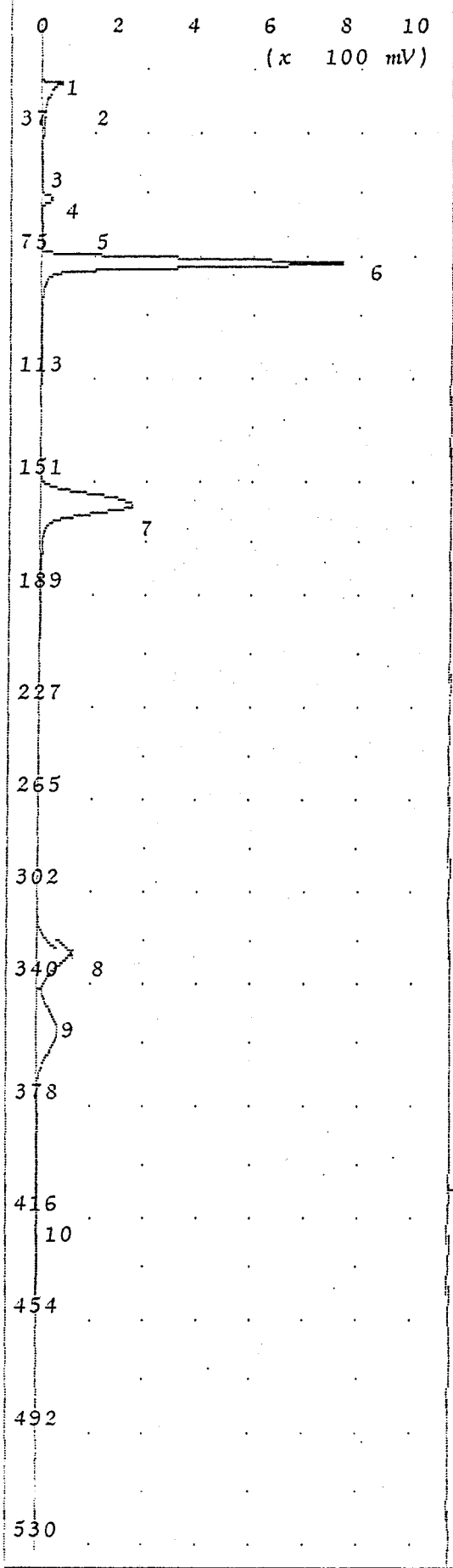
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	118.7	mVS	20.2
2	Unknown	0.982	mVS	29.7
3	Unknown	1.545	mVS	50.5
4	Unknown	42.38	mVS	55.5
5	Unknown	9.177	mVS	64.8
6	Benzene	29.21	ppb	74.8
7	Toluene	22.79	ppb	155.6
8	Ethylbenzene	19.44	ppb	325.6
9	MP Xylene	8.859	ppb	353.3

Notes

Mark Escobar
Billy Mitchell Air National Guard Base
BTEX Standard 100 ppb

Analysis #10 10S+ GC Function Analysis Report



Time Printed: Oct 20,94 14:43
Sample Time: Oct 20,94 14:34

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	15	ml/min
B/F Flow	15	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

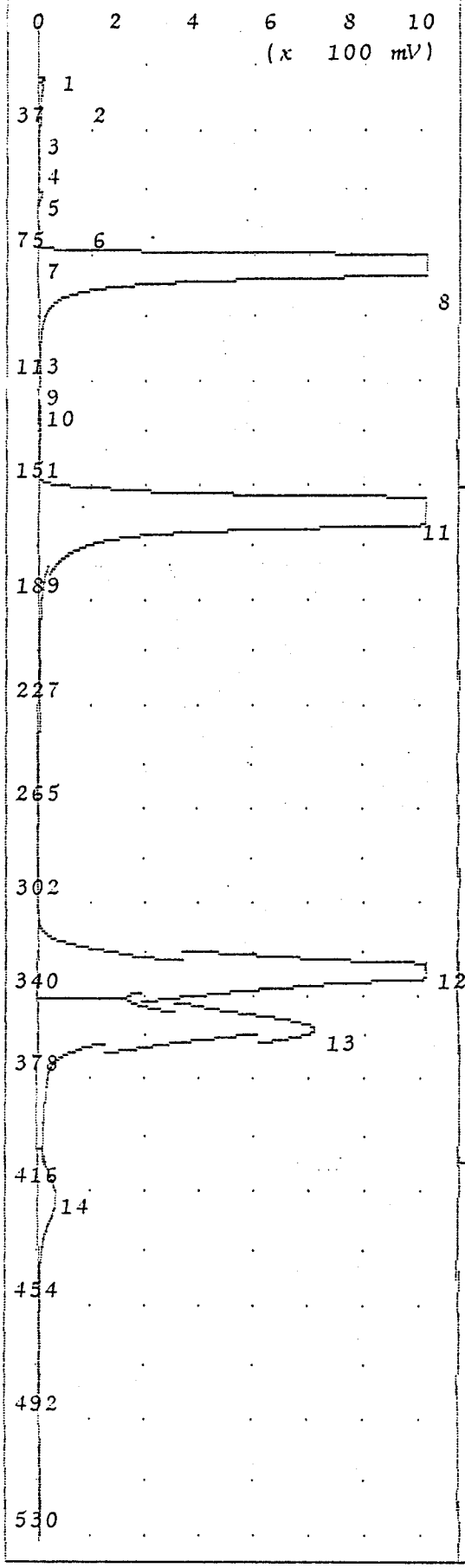
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	386.2	mVS	19.6
2	Unknown	3.860	mVS	30.0
3	Unknown	2.582	mVS	50.2
4	Unknown	97.89	mVS	54.7
5	Unknown	30.38	mVS	64.8
6	Benzene	696.8	ppb	75.2
7	Toluene	709.8	ppb	156.0
8	Ethylbenzene	657.8	ppb	327.2
9	MP Xylene	671.7	ppb	352.6
10	O Xylene	481.0	ppb	415.0

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
BTEX Standard 1 ppm

Analysis #11 10S+ GC Function Analysis Report



Time Printed: Oct 20,94 14:55
Sample Time: Oct 20,94 14:46

Method

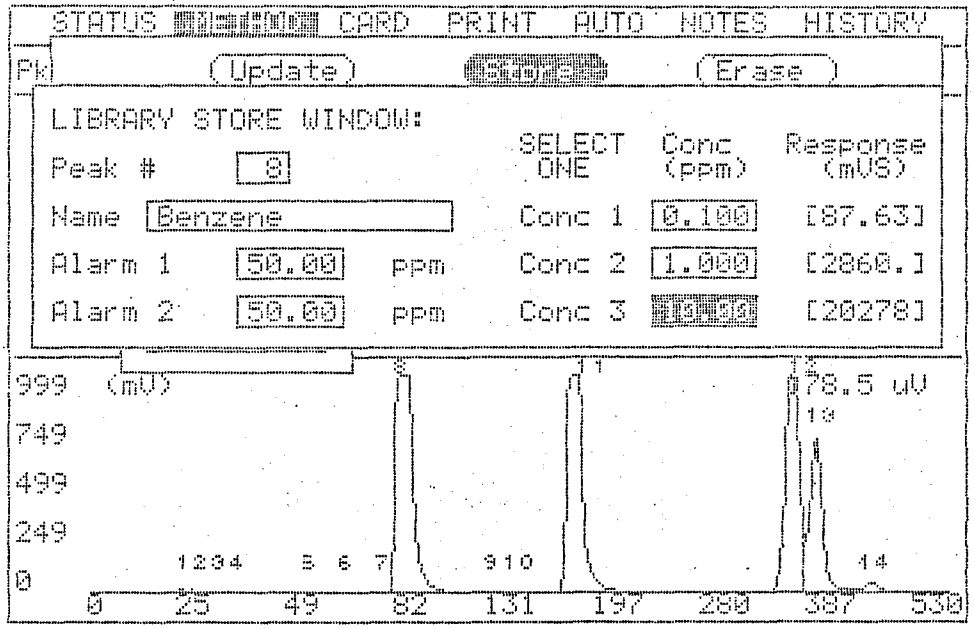
Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	15	ml/min
B/F Flow	15	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	28.67	mVS	20.0
2	Unknown	76.13	mVS	22.4
3	Unknown	31.51	mVS	29.8
4	Unknown	63.15	mVS	32.8
5	Unknown	9.275	mVS	50.1
6	Unknown	35.98	mVS	55.4
7	Unknown	6.285	mVS	64.8
8	Benzene	9.424	ppm	76.2
9	Unknown	3.109	mVS	111.8
10	Unknown	1.219	mVS	120.9
11	Toluene	9.316	ppm	157.0
12	Ethylbenzene	6.544	ppm	329.3
13	MP Xylene	9.224	ppm	354.6
14	O Xylene	4.258	ppm	416.4

Notes

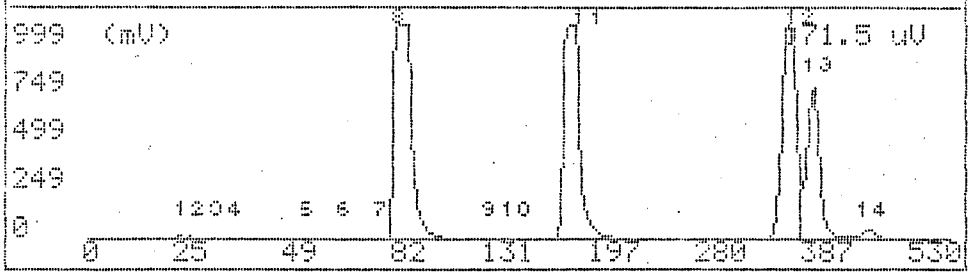
Mark Escobar
Billy Mitchell Air National Guard Base
BTEX Standard 10 ppm


STATUS
CARD
PRINT
AUTO
NOTES
HISTORY
Update
Erase
LIBRARY STORE WINDOW:
Peak # 8
Name Benzene
Alarm 1 50.00 ppm
Alarm 2 50.00 ppm
SELECT ONE
Conc (ppm)
Response (mVS)
Conc 1 0.100 [87.63]
Conc 2 1.000 [2060.]
Conc 3 10.00 [20278]
999 (mV)
749
499
249
0
78.5 uV
1 2 3 4 5 6 7 8 9 10 11 12 13 14
0 25 49 82 131 197 280 387 530

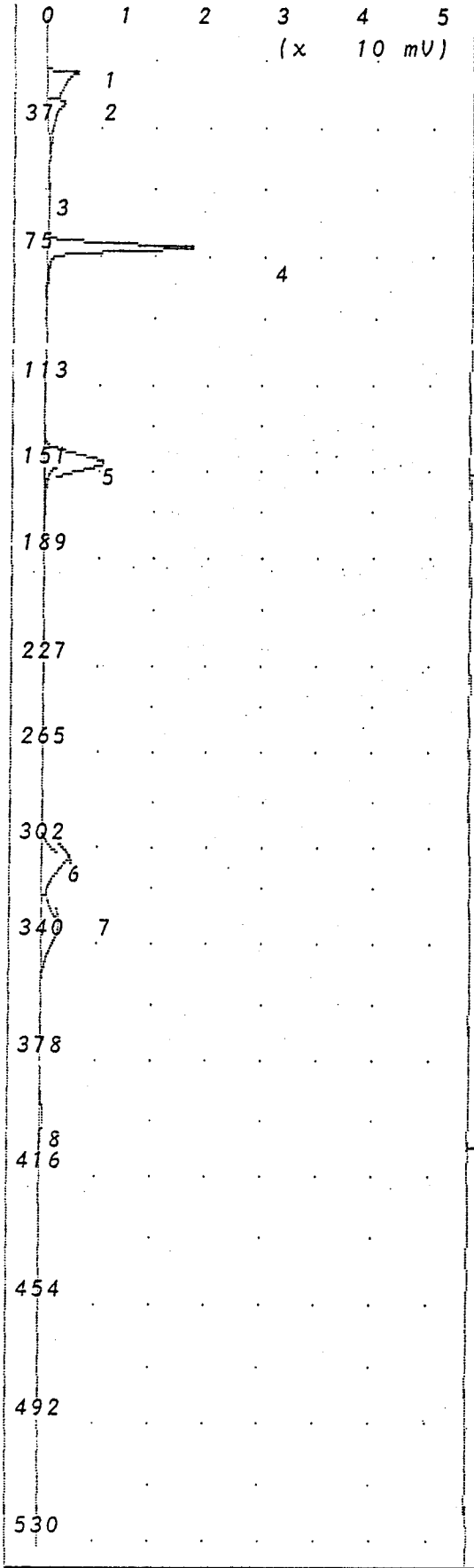
Fault: Calibrant 105+ GC Function Oct 20,94 15:00
-- Analysis No 11 -- Run at - Oct 20,94 14:46 -

Pk No	Name	Conc/Area	Alarm	Ret.Time
1	Unknown	28.67 mVS	-No-	20.0 sec
2	Unknown	76.13 mVS	-No-	22.4 sec
3	Unknown	31.51 mVS	-No-	29.0 sec
4	Unknown	63.15 mVS	-No-	32.0 sec
5	Unknown	9.275 mVS	-No-	50.1 sec
6	Unknown	35.98 mVS	-No-	55.4 sec
7	Unknown	6.285 mVS	-No-	64.0 sec
8	Benzene	10.00 ppm	-No-	76.2 sec
9	Unknown	3.109 mVS	-No-	111.8 sec

- Detected 14 peaks. Use ↑ ↓ to scroll [535 sec]



Analysis #1 10S+ GC Function Analysis Report



Time Printed: Oct 21,94 08:47
Sample Time: Oct 21,94 08:38

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	32	C
Max Gain	1000	
Analysis Time	530.0	sec

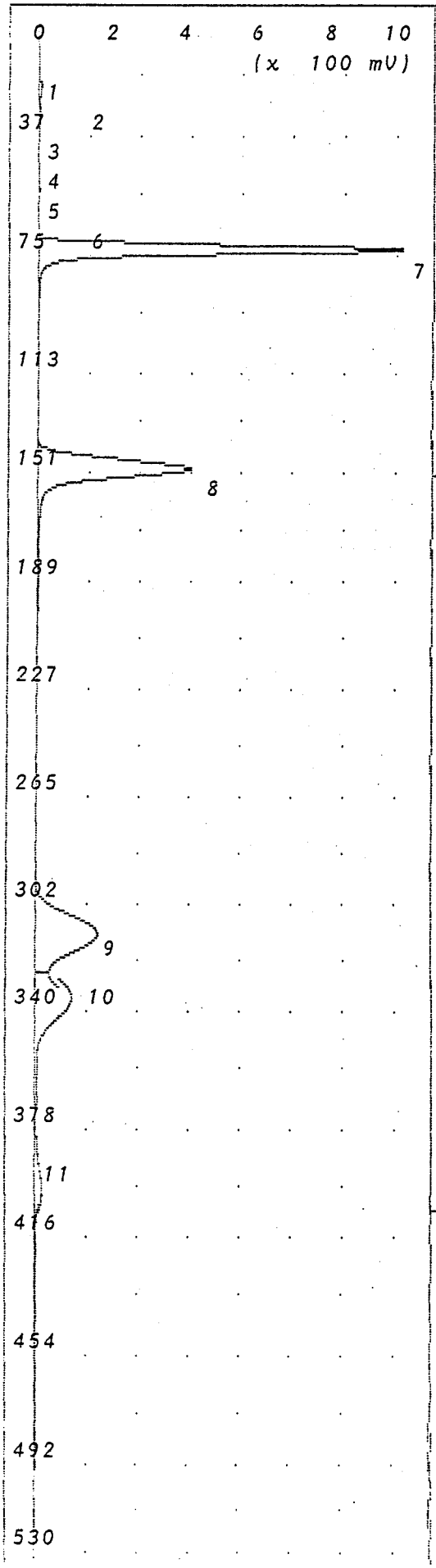
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	20.88 mVS	18.8
2	Unknown	14.47 mVS	28.1
3	Unknown	0.527 mVS	51.9
4	Benzene	55.42 ppb	70.5
5	Toluene	106.0 ppb	146.4
6	Unknown	55.22 mVS	307.7
7	Ethylbenzene	119.6 ppb	328.0
8	O Xylene	43.63 ppb	392.6

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
100 ppb BTEX Standard

Analysis #2 10S+ GC Function Analysis Report



Time Printed: Oct 21,94 09:03
Sample Time: Oct 21,94 08:54

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

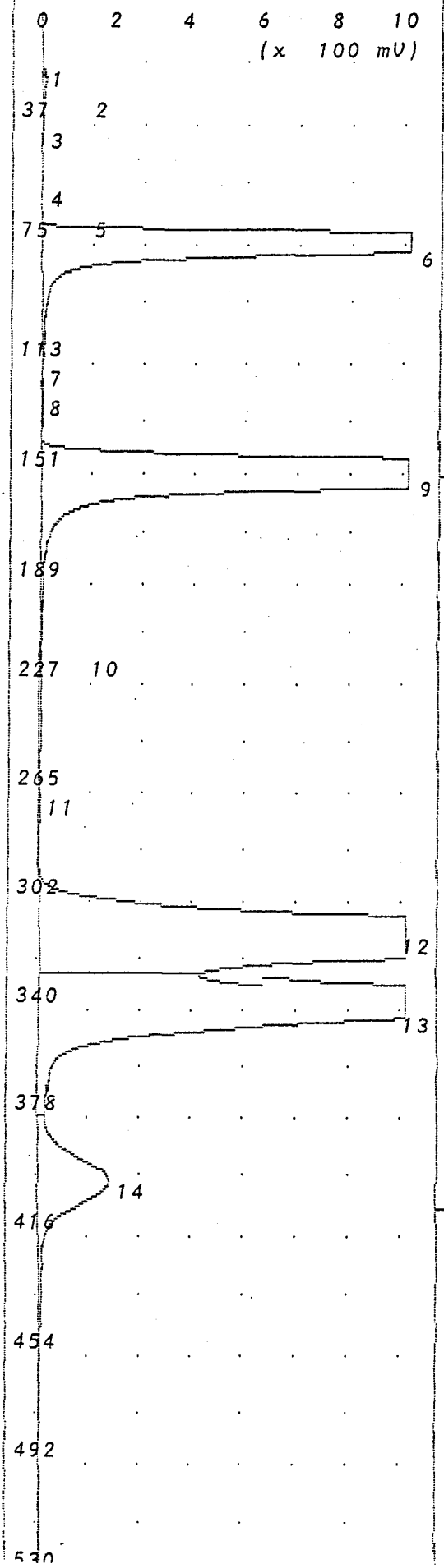
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	115.4 mVS	18.6
2	Unknown	3.035 mVS	27.9
3	Unknown	0.226 mVS	37.8
4	Unknown	0.526 mVS	46.8
5	Unknown	20.16 mVS	50.7
6	Unknown	0.532 mVS	61.3
7	Benzene	1.651 ppm	71.2
8	Toluene	1.540 ppm	147.8
9	Ethylbenzene	1.553 ppm	310.1
10	MP Xylene	3.316 ppm	333.8
11	O Xylene	4.230 ppm	390.3

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
1 ppm BTEX Standard

Analysis #3 10S+ GC Function Analysis Report



Time Printed:	Oct 21,94	09:18
Sample Time:	Oct 21,94	09:09

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	20.70	mVS	18.8
2	Unknown	69.52	mVS	21.1
3	Unknown	75.66	mVS	28.2
4	Unknown	6.706	mVS	52.4
5	Unknown	0.418	mVS	61.2
6	Benzene	10.46	ppm	72.5
7	Unknown	5.417	mVS	108.5
8	Unknown	1.599	mVS	114.2
9	Toluene	10.14	ppm	148.6
10	Unknown	3.581	mVS	212.4
11	Unknown	9.451	mVS	268.0
12	Ethylbenzene	15.35	ppm	312.0
13	MP Xylene	43.40	ppm	335.2
14	O Xylene	52.49	PPM2	396.6

PPM1 = Alarm 1 PPM2 = Alarm2

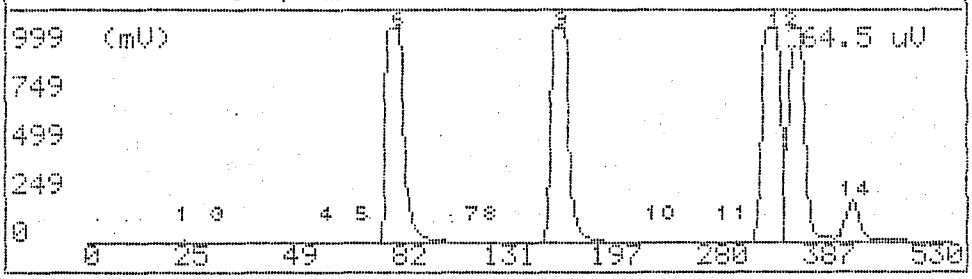
Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
10 ppm BTEX Standard

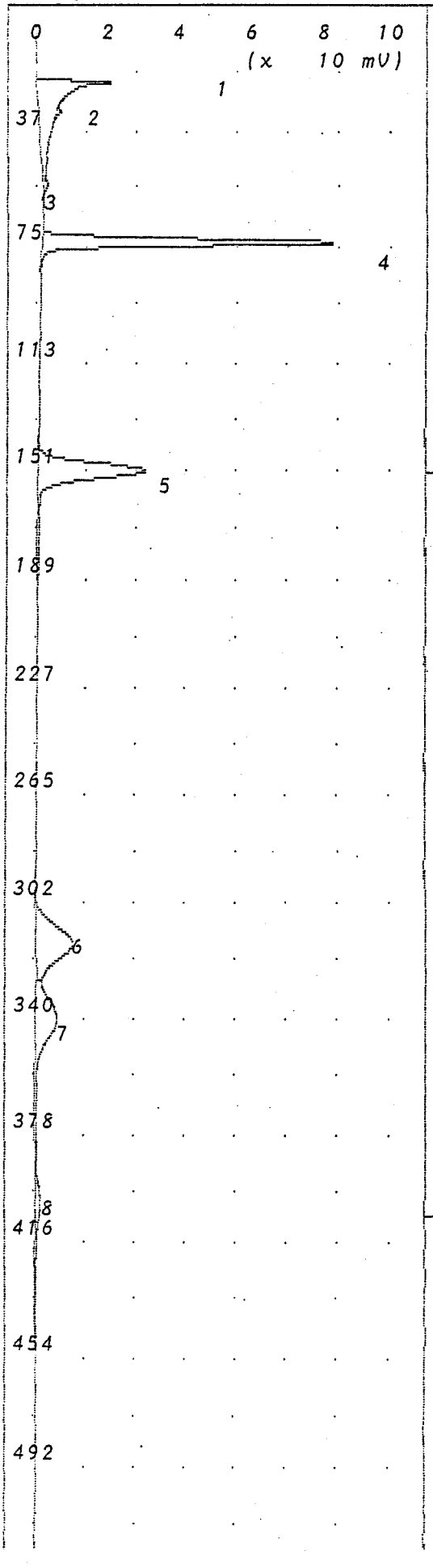
Fault: Calibrant 10S+ GC Function Oct 21,94 09:23
-- Analysis No 3 -- Run at - Oct 21,94 09:09 -

Pk No	Name	Conc/Area	Alarm	Ret.Time
1	Unknown	20.74 mVS	-No-	10.8 sec
2	Unknown	70.00 mVS	-No-	21.1 sec
3	Unknown	81.13 mVS	-No-	28.2 sec
4	Unknown	10.71 mVS	-No-	52.4 sec
5	Unknown	1.747 mVS	-No-	61.2 sec
6	Benzene	10.00 ppm	-No-	72.6 sec
7	Unknown	5.417 mVS	-No-	108.5 sec
8	Unknown	1.599 mVS	-No-	114.2 sec
9	Toluene	10.00 ppm	-No-	148.6 sec

- Detected 14 peaks. Use + + to scroll [535 sec]



Analysis #9 10S+ GC Function Analysis Report



Time Printed: Oct 21,94 11:33
Sample Time: Oct 21,94 11:24

Method

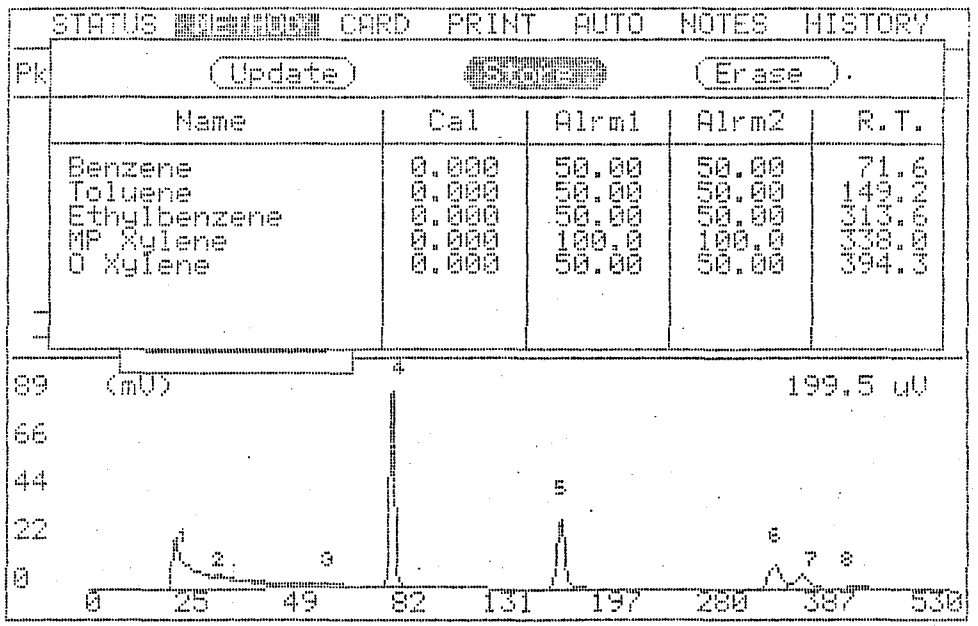
Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	32	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	169.4 mVS	18.8
2	Unknown	1.753 mVS	28.4
3	Unknown	2.186 mVS	53.0
4	Benzene	140.7 ppb	71.6
5	Toluene	139.4 ppb	149.2
6	Ethylbenzene	132.7 ppb	313.6
7	MP Xylene	265.4 ppb	338.0
8	O Xylene	131.7 ppb	394.3

Notes

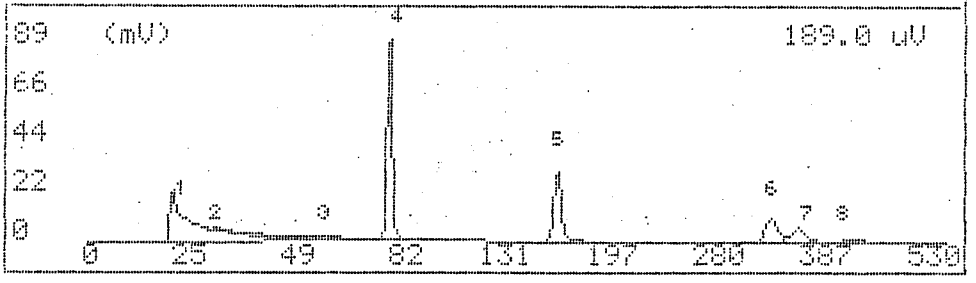
Mark Escobar
Billy Mitchell Air National
Guard Base
100 ppb BTEX continuig calib.

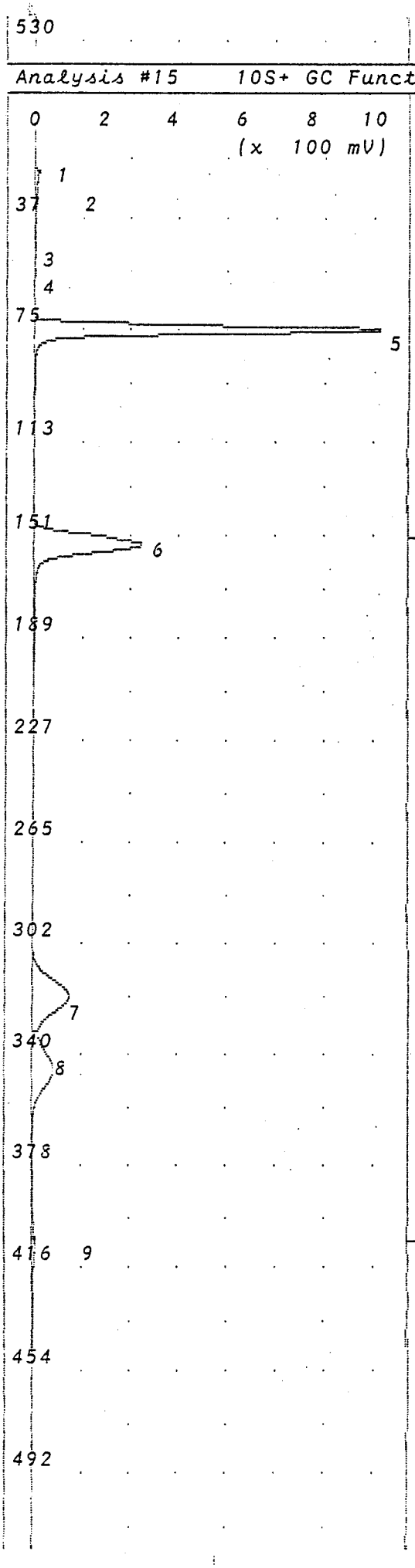

STATUS CARD PRINT AUTO NOTES HISTORY
Pk
Update
Store
Erase
Name
Cal
Alrm1
Alrm2
R.T.
Benzene 0.000 50.00 50.00 71.6
Toluene 0.000 50.00 50.00 149.2
Ethylbenzene 0.000 50.00 50.00 313.6
MP Xylene 0.000 100.0 100.0 330.0
O Xylene 0.000 50.00 50.00 394.3
89
(mV)
199.5 uV
66
44
22
0
0
25
49
82
131
197
280
387
530

Fault: Calibrant 10S+ GC Function Oct 21,94 11:37
-- Analysis No 9 -- Run at - Oct 21,94 11:24 -

Pk No	Name	Conc/Area	Alarm	Ret.Time
1	Unknown	169.4 mVS	-No-	18.0 sec
2	Unknown	1.753 mVS	-No-	28.4 sec
3	Unknown	2.186 mVS	-No-	53.0 sec
4	Benzene	100.0 ppb	-No-	71.6 sec
5	Toluene	100.0 ppb	-No-	140.2 sec
6	Ethylbenzene	100.0 ppb	-No-	313.6 sec
7	MP Xylene	200.0 ppb	-No-	338.0 sec
8	O Xylene	100.0 ppb	-No-	394.3 sec

- Detected 8 peaks. [535 sec]





Analysis #15 10S+ GC Function Analysis Report

Time Printed: Oct 21,94 15:05
Sample Time: Oct 21,94 14:56

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	30	C
Max Gain	1000	
Analysis Time	530.0	sec

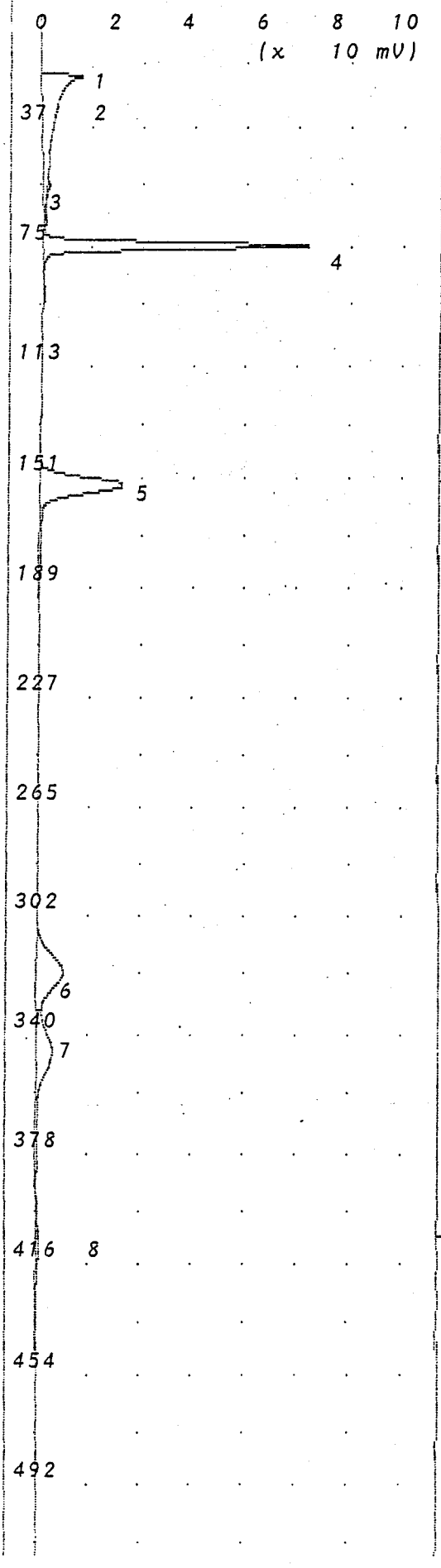
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	169.7 mVS	19.6
2	Unknown	2.998 mVS	29.2
3	Unknown	0.342 mVS	48.7
4	Unknown	3.848 mVS	54.0
5	Benzene	938.8 ppb	73.4
6	Toluene	743.9 ppb	152.2
7	Ethylbenzene	600.8 ppb	318.1
8	MP Xylene	1.185 ppm	343.3
9	O Xylene	512.5 ppb	404.6

Notes

Mark Escobar
Billy Mitchell Air National Guard Base
1 ppm BTEX Standard Calibration

Analysis #17 10S+ GC Function Analysis Report



Time Printed: Oct 21,94 15:37
Sample Time: Oct 21,94 15:28

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	30	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	155.1 mVS	19.6
2	Unknown	0.827 mVS	29.0
3	Unknown	2.237 mVS	53.9
4	Benzene	87.17 ppb	72.8
5	Toluene	77.28 ppb	149.8
6	Ethylbenzene	68.71 ppb	318.1
7	MP Xylene	141.9 ppb	343.3
8	O Xylene	55.62 ppb	405.6

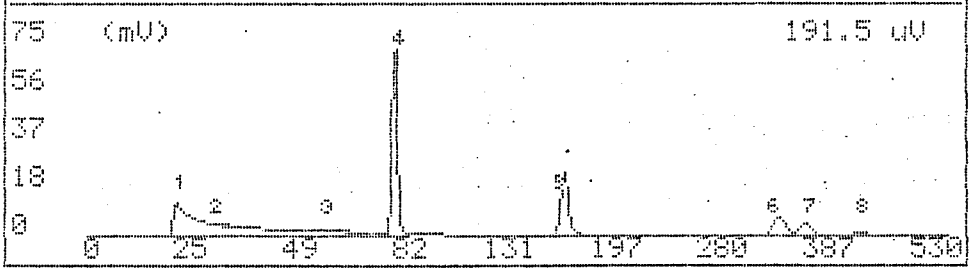
Notes

Mark Escobar
Billy Mitchell Air National Guard Base
100 ppb BTEX Standard Recal

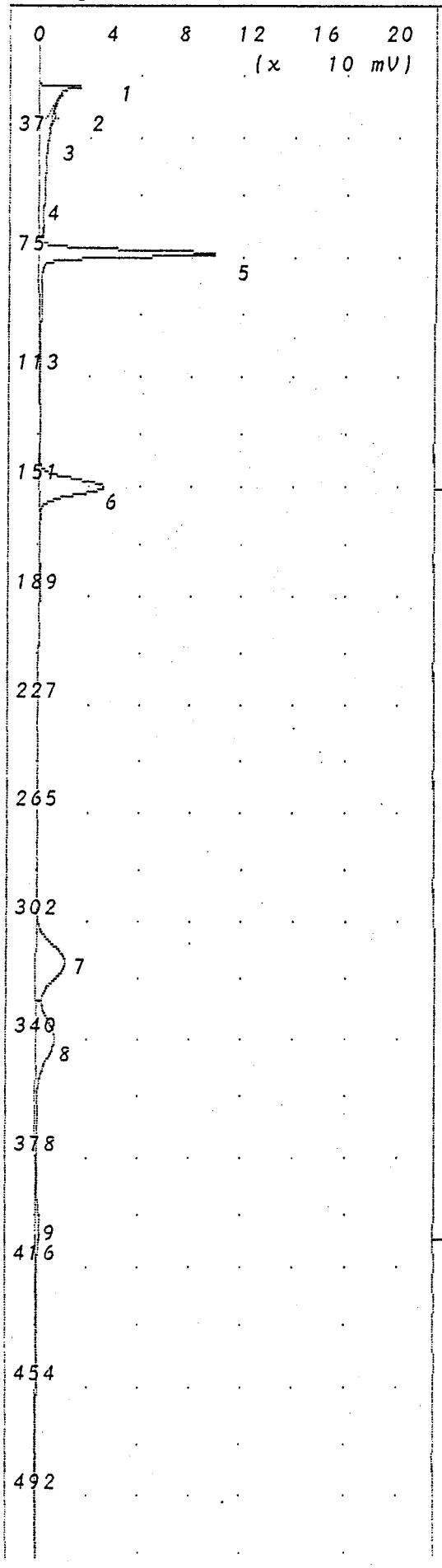
Fault: Calibrant 10S+ GC Function Oct 21,94 16:09
-- Analysis No 17 -- Run at - Oct 21,94 15:20 -

Pk No	Name	Conc/Area		Alarm	Ret.Time	
1	Unknown	155.1	mVS	-No-	19.6	sec
2	Unknown	0.827	mVS	-No-	29.0	sec
3	Unknown	2.237	mVS	-No-	53.9	sec
4	Benzene	100.0	ppb	-No-	72.0	sec
5	Toluene	99.99	ppb	-No-	149.8	sec
6	Ethylbenzene	100.0	ppb	-No-	310.1	sec
7	MP Xylene	200.0	ppb	-No-	343.3	sec
8	O Xylene	99.99	ppb	-No-	405.6	sec

- Detected 8 peaks. [535 sec]



Analysis #1 10S+ GC Function Analysis Report



Time Printed: Oct 24,94 15:34
Sample Time: Oct 24,94 15:25

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

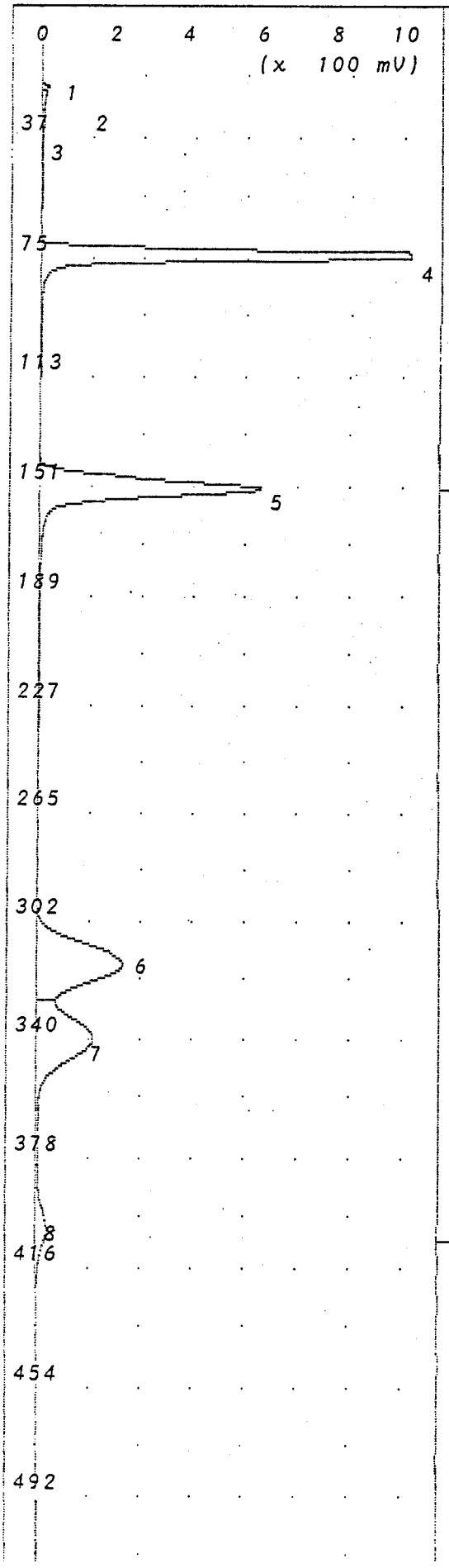
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	270.8	mVS	19.0
2	Unknown	0.802	mVS	21.2
3	Unknown	3.286	mVS	28.3
4	Unknown	0.686	mVS	53.9
5	Benzene	131.2	ppb	71.7
6	Toluene	126.1	ppb	149.2
7	Ethylbenzene	143.8	ppb	313.3
8	MP Xylene	302.0	ppb	338.0
9	O Xylene	190.8	ppb	399.6

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
100 ppb Std

Analysis #2 10S+ GC Function Analysis Report



Time Printed: Oct 24,94 15:47
Sample Time: Oct 24,94 15:38

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

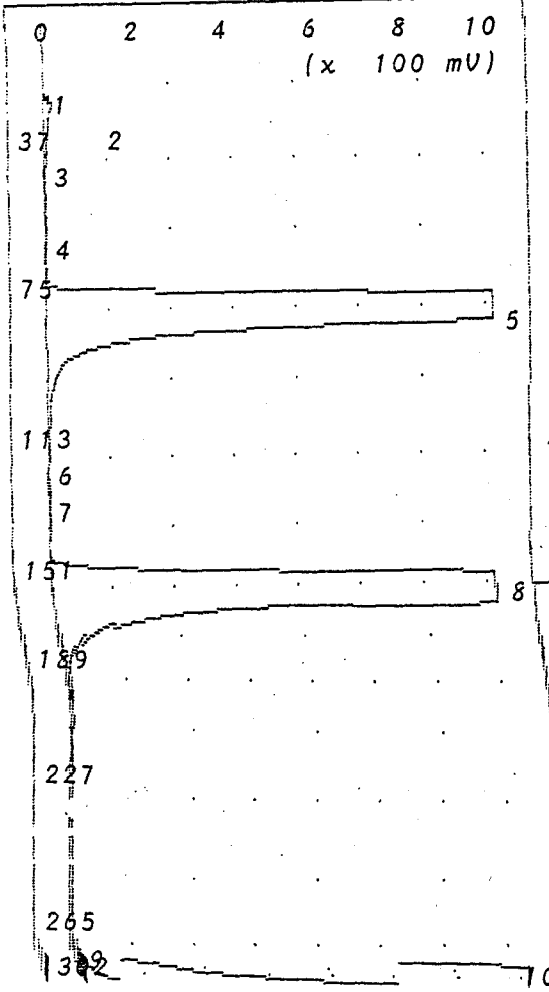
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	39.98 mVS	18.8
2	Unknown	75.90 mVS	21.0
3	Unknown	166.6 mVS	28.1
4	Benzene	1.917 ppm	72.1
5	Toluene	1.574 ppm	149.6
6	Ethylbenzene	1.323 ppm	314.1
7	MP Xylene	2.643 ppm	338.0
8	O Xylene	1.376 ppm	399.6

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
1 ppm Std

Analysis #3 10S+ GC Function Analysis Report



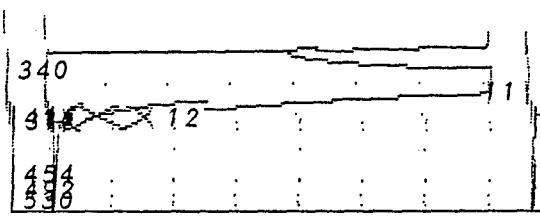
Time Printed: Oct 24,94 16:00
Sample Time: Oct 24,94 15:51

Method

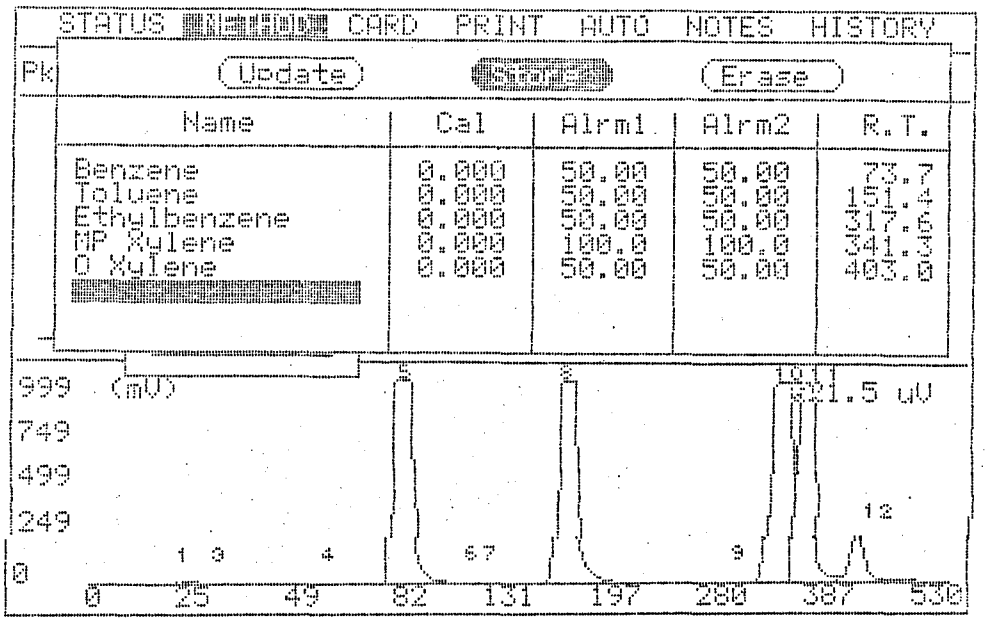
Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

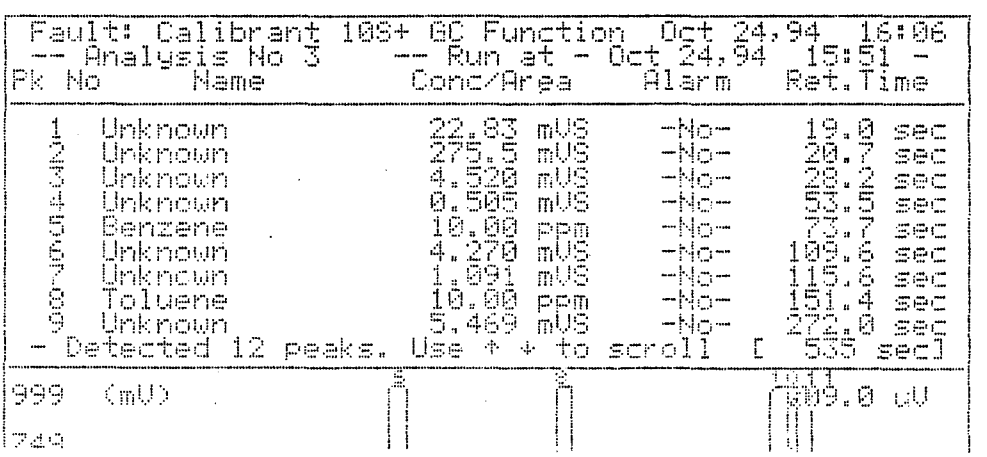
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	22.83	mVS	19.0
2	Unknown	275.5	mVS	20.7
3	Unknown	4.520	mVS	28.2
4	Unknown	0.505	mVS	53.5
5	Benzene	13.24	ppm	73.7
6	Unknown	4.270	mVS	109.6
7	Unknown	1.091	mVS	115.6
8	Toluene	11.47	ppm	151.4
9	Unknown	5.469	mVS	272.0
10	Ethylbenzene	11.54	ppm	317.6
11	MP Xylene	28.19	ppm	341.3
12	O Xylene	11.38	ppm	403.0

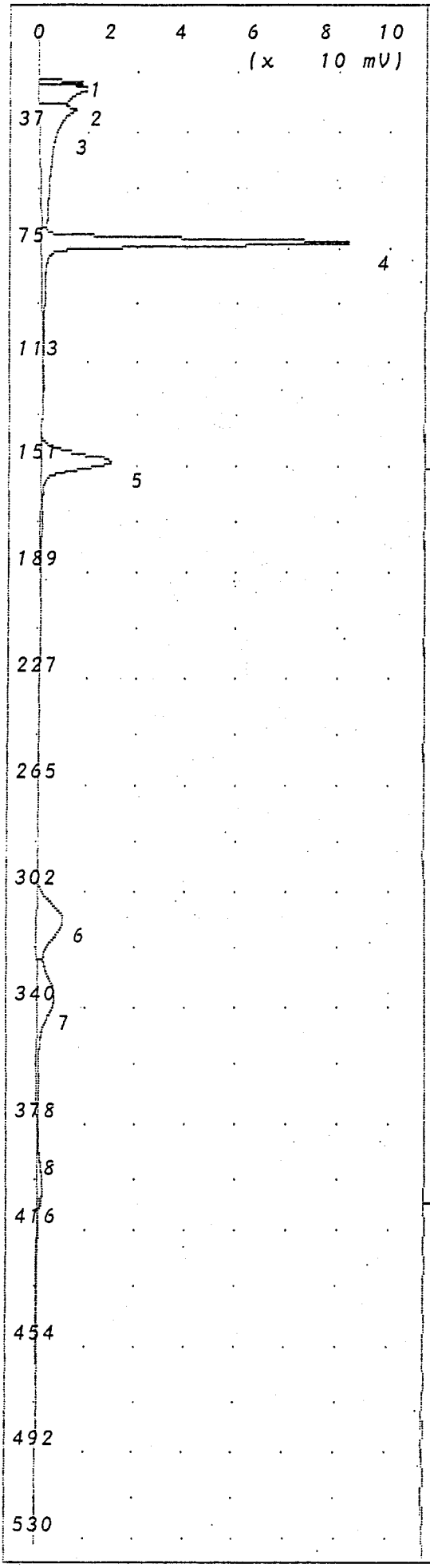


Mark Escobar Notes
Billy Mitchell Air National
Guard Base
10 ppm Std


STATUS
CARD
PRINT
AUTO
NOTES
HISTORY
Pk
Update
Erase
Name
Cal
Alrm1
Alrm2
R.T.
Benzene 0.000 50.00 50.00 73.7
Toluene 0.000 50.00 50.00 151.4
Ethylbenzene 0.000 50.00 50.00 317.6
MP Xylene 0.000 100.0 100.0 341.3
O Xylene 0.000 50.00 50.00 403.0
999 (mV)
749
499
249
0
1 3 4 6 7 9 12
0 25 49 82 131 197 280 387 530
21.5 uV


Fault: Calibrant 10S+ GC Function Oct 24,94 16:06
-- Analysis No 3 -- Run at - Oct 24,94 15:51 -
Pk No Name Conc/Area Alarm Ret.Time
1 Unknown 22.63 mVS -No- 19.0 sec
2 Unknown 275.5 mVS -No- 20.7 sec
3 Unknown 4.520 mVS -No- 28.2 sec
4 Unknown 0.505 mVS -No- 53.4 sec
5 Benzene 10.00 ppm -No- 73.4 sec
6 Unknown 4.270 mVS -No- 100.6 sec
7 Unknown 1.091 mVS -No- 115.6 sec
8 Toluene 10.00 ppm -No- 151.4 sec
9 Unknown 5.469 mVS -No- 272.0 sec
- Detected 12 peaks. Use ↑ ↓ to scroll [535 sec]
999 (mV)
749
209.0 uV

Analysis #1 10S+ GC Function Analysis Report



Time Printed: Oct 25,94 10:32
Sample Time: Oct 25,94 10:23

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	32	C
Max Gain	1000	
Analysis Time	530.0	sec

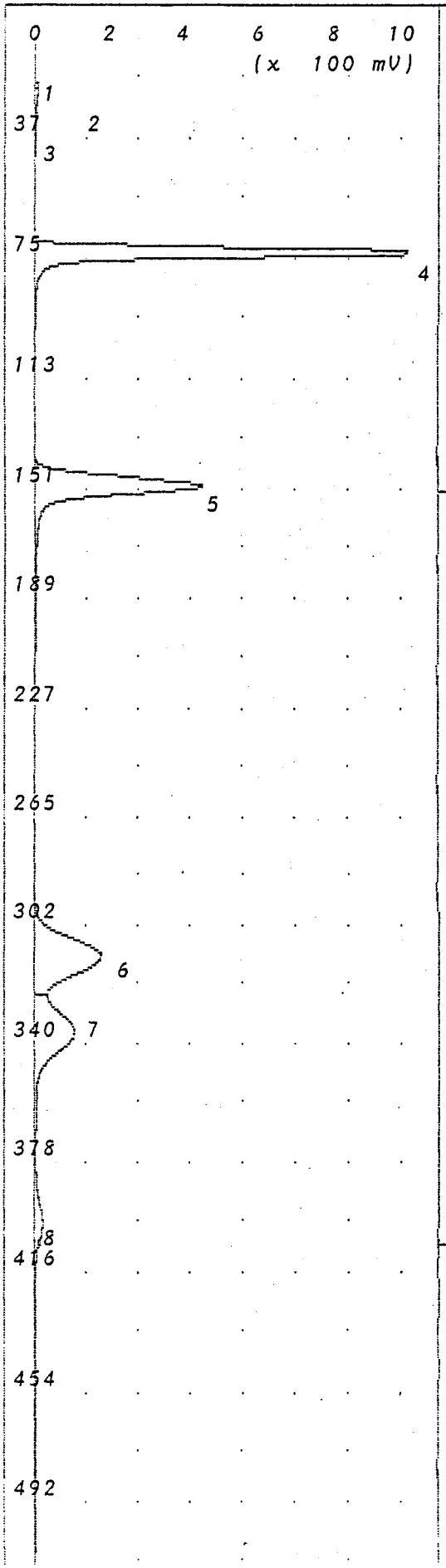
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	19.74 mVS	18.8
2	Unknown	71.66 mVS	21.0
3	Unknown	161.7 mVS	27.9
4	Benzene	84.28 ppb	71.0
5	Toluene	54.53 ppb	146.4
6	Ethylbenzene	47.36 ppb	310.1
7	MP Xylene	102.1 ppb	334.4
8	O Xylene	49.52 ppb	390.0

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
~~04-008PS 1' 3'~~ / 100 ppb BTEX STD

Analysis #2 10S+ GC Function Analysis Report



Time Printed: Oct 25,94 10:46
Sample Time: Oct 25,94 10:37

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	32	C
Max Gain	1000	
Analysis Time	530.0	sec

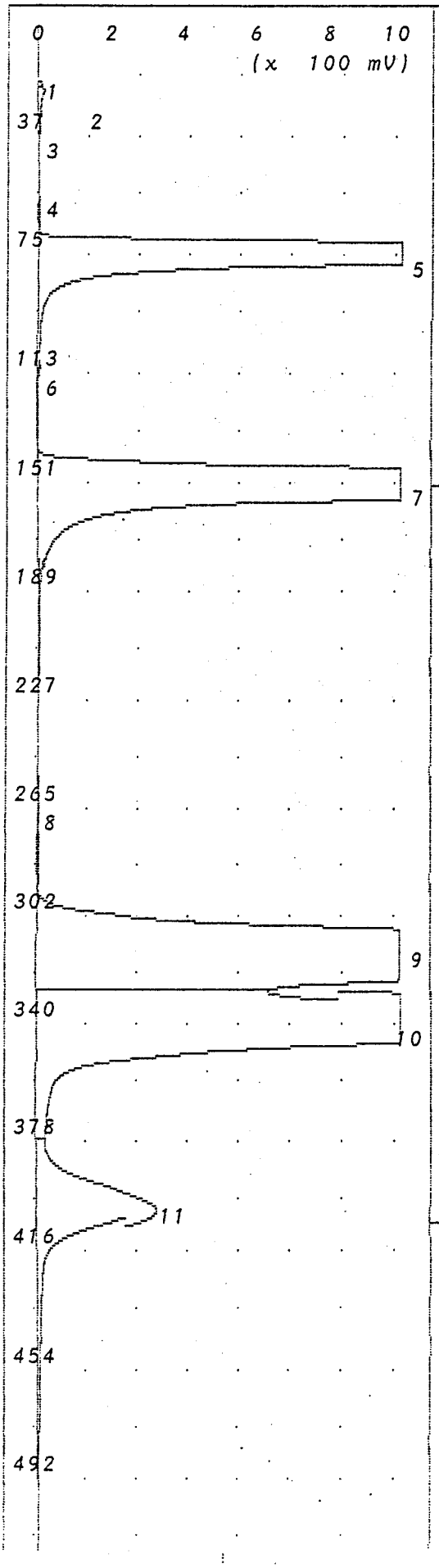
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	24.06 mVS	18.6
2	Unknown	54.42 mVS	20.6
3	Unknown	65.34 mVS	27.7
4	Benzene	827.1 ppb	71.3
5	Toluene	780.4 ppb	148.0
6	Ethylbenzene	764.1 ppb	309.6
7	MP Xylene	1.457 ppm	334.1
8	O Xylene	816.3 ppb	395.3

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
1 ppm BTEX Standard

Analysis #3 10S+ GC Function Analysis Report



Time Printed: Oct 25,94 11:10
Sample Time: Oct 25,94 11:02

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	26.18	mVS	18.7
2	Unknown	230.3	mVS	20.5
3	Unknown	4.169	mVS	27.9
4	Unknown	0.994	mVS	52.3
5	Benzene	9.177	ppm	72.8
6	Unknown	5.252	mVS	109.2
7	Toluene	10.26	ppm	149.2
8	Unknown	7.625	mVS	267.7
9	Ethylbenzene	10.95	ppm	313.0
10	MP Xylene	23.29	ppm	335.7
11	O Xylene	14.04	ppm	398.0

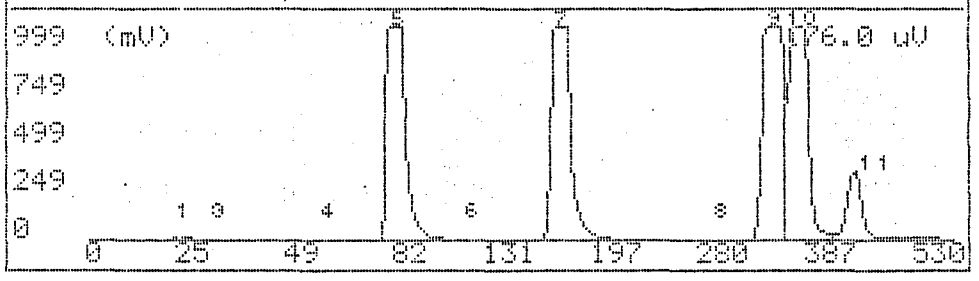
Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
10 ppm BTEX Standard

Fault: Calibrant 10S+ GC Function Oct 25,94 11:14
-- Analysis No 3 -- Run at - Oct 25,94 11:02 -

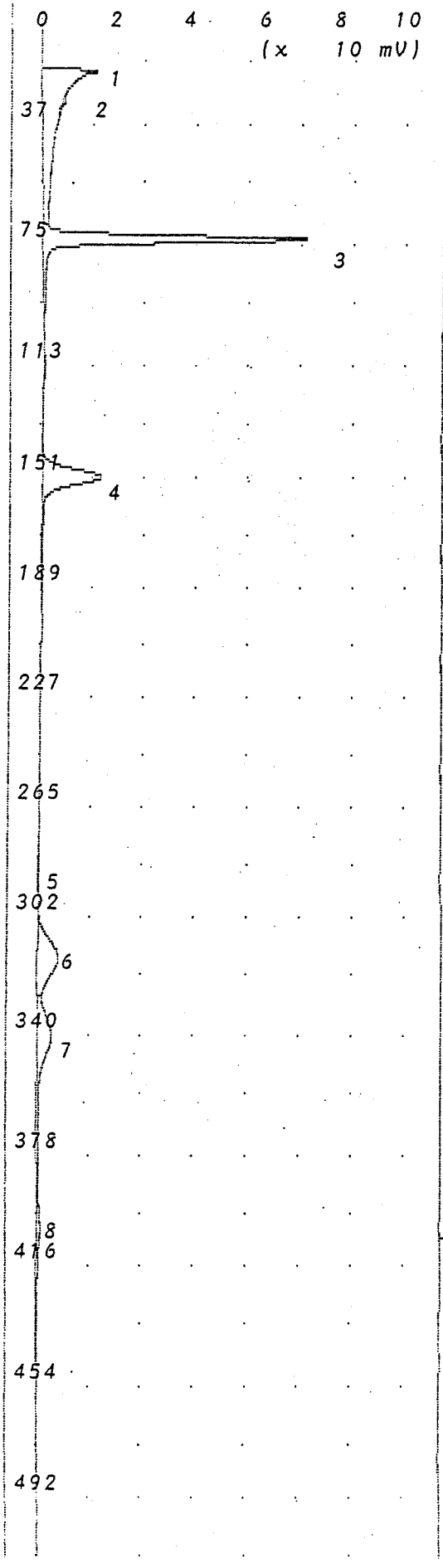
Pk No	Name	Conc/Area	Alarm	Ret.Time
1	Unknown	26.22 mVS	-No-	18.7 sec
2	Unknown	244.3 mVS	-No-	30.5 sec
3	Unknown	4.169 mVS	-No-	42?.? sec
4	Unknown	0.994 mVS	-No-	52?.? sec
5	Benzene	10.00 ppm	-No-	?2?.? sec
6	Unknown	5.252 mVS	-No-	109.2 sec
7	Toluene	10.00 ppm	-No-	149.2 sec
8	Unknown	7.625 mVS	-No-	26?.? sec
9	Ethylbenzene	10.00 ppm	-No-	313.0 sec

- Detected 11 peaks. Use ↑ ↓ to scroll [535 sec]



530

Analysis #10 10S+ GC Function Analysis Report



Time Printed: Oct 25,94 12:38
Sample Time: Oct 25,94 12:29

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	210.2 mVS	18.8
2	Unknown	1.092 mVS	28.0
3	Benzene	77.35 ppb	71.4
4	Toluene	81.52 ppb	149.0
5	Unknown	2.202 mVS	277.8
6	Ethylbenzene	77.14 ppb	313.8
7	MP Xylene	155.9 ppb	338.3
8	O Xylene	58.87 ppb	400.3

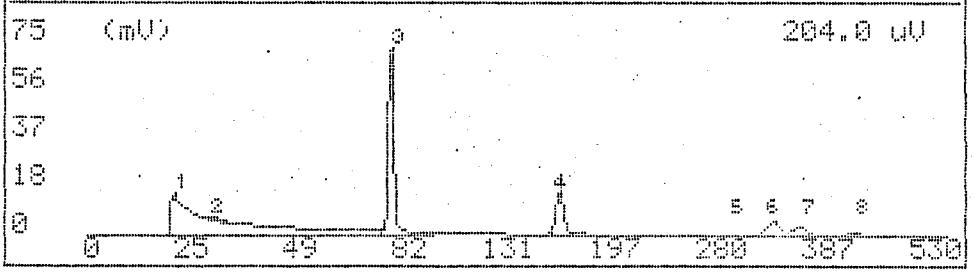
Notes

Mark Escobar
Billy Mitchell Air National Guard Base
100 ppb BTEX Standard

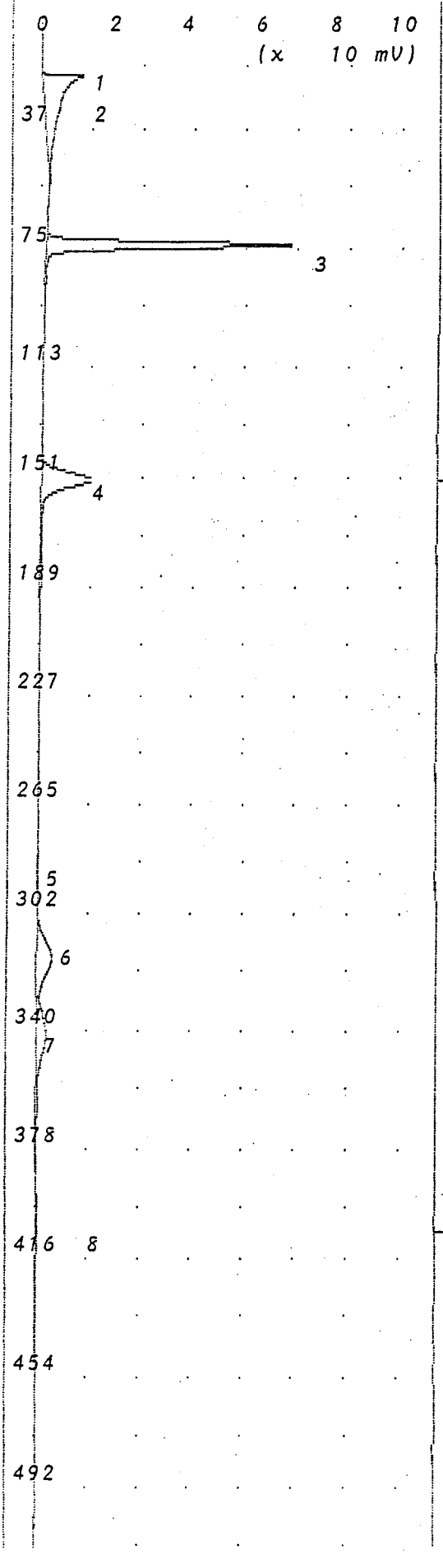
Fault: Calibrant 10S+ GC Function Oct 25,94 12:41
-- Analysis No 10 -- Run at - Oct 25,94 12:29 -

Pk No	Name	Conc/Area	Alarm	Ret.Time
1	Unknown	210.2 mVS	-No-	18.8 sec
2	Unknown	1.092 mVS	-No-	28.0 sec
3	Benzene	100.0 ppb	-No-	71.4 sec
4	Toluene	100.0 ppb	-No-	149.0 sec
5	Unknown	2.202 mVS	-No-	277.0 sec
6	Ethylbenzene	100.0 ppb	-No-	313.0 sec
7	MP Xylene	200.0 ppb	-No-	338.3 sec
8	O Xylene	100.0 ppb	-No-	400.3 sec

- Detected 8 peaks. [535 sec]



Analysis #17 10S+ GC Function Analysis Report



Time Printed: Oct 25,94 14:27
Sample Time: Oct 25,94 14:18

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	114.1	mVS	19.2
2	Unknown	0.701	mVS	28.6
3	Benzene	79.86	ppb	72.0
4	Toluene	85.81	ppb	149.8
5	Unknown	1.941	mVS	280.8
6	Ethylbenzene	73.24	ppb	314.9
7	MP Xylene	148.2	ppb	339.6
8	O Xylene	62.29	ppb	401.0

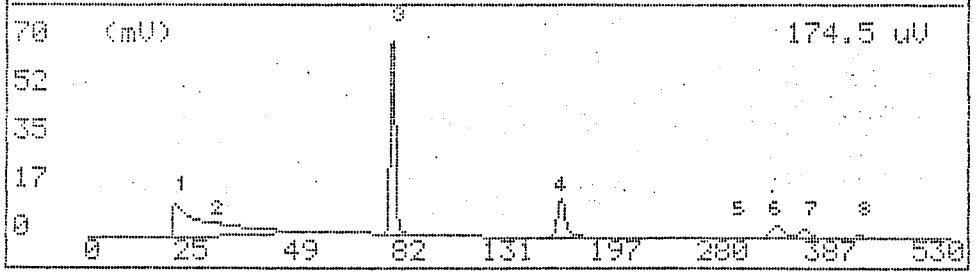
Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
100ppb BTEX Standard

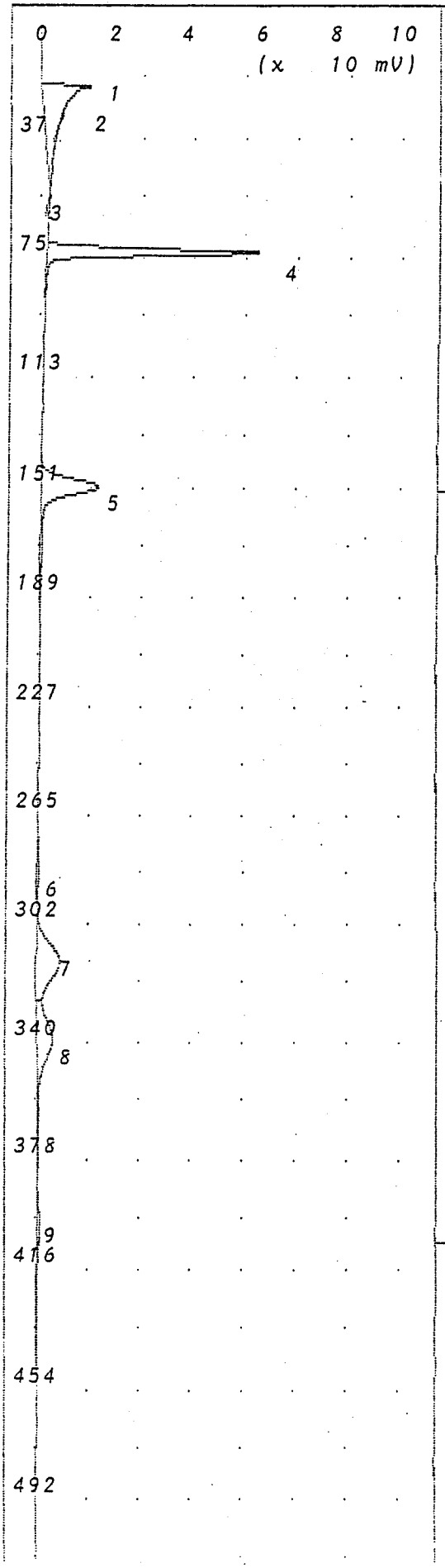
Fault: Calibrant 10S+ GC Function Oct 25,94 14:30
-- Analysis No 17 -- Run at - Oct 25,94 14:18 -

Pk No	Name	Conc/Area	Alarm	Ret.Time
1	Unknown	114.1 mVS	-No-	19.2 sec
2	Unknown	0.701 mVS	-No-	26.6 sec
3	Benzene	99.99 ppb	-No-	72.0 sec
4	Toluene	99.99 ppb	-No-	149.0 sec
5	Unknown	1.941 mVS	-No-	280.0 sec
6	Ethylbenzene	99.99 ppb	-No-	414.9 sec
7	MP Xylene	199.9 ppb	-No-	439.6 sec
8	O Xylene	100.0 ppb	-No-	481.0 sec

- Detected 8 peaks. [535 sec]



Analysis #1 10S+ GC Function Analysis Report



Time Printed: Oct 26,94 11:18
Sample Time: Oct 26,94 11:09

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	32	C
Max Gain	1000	
Analysis Time	530.0	sec

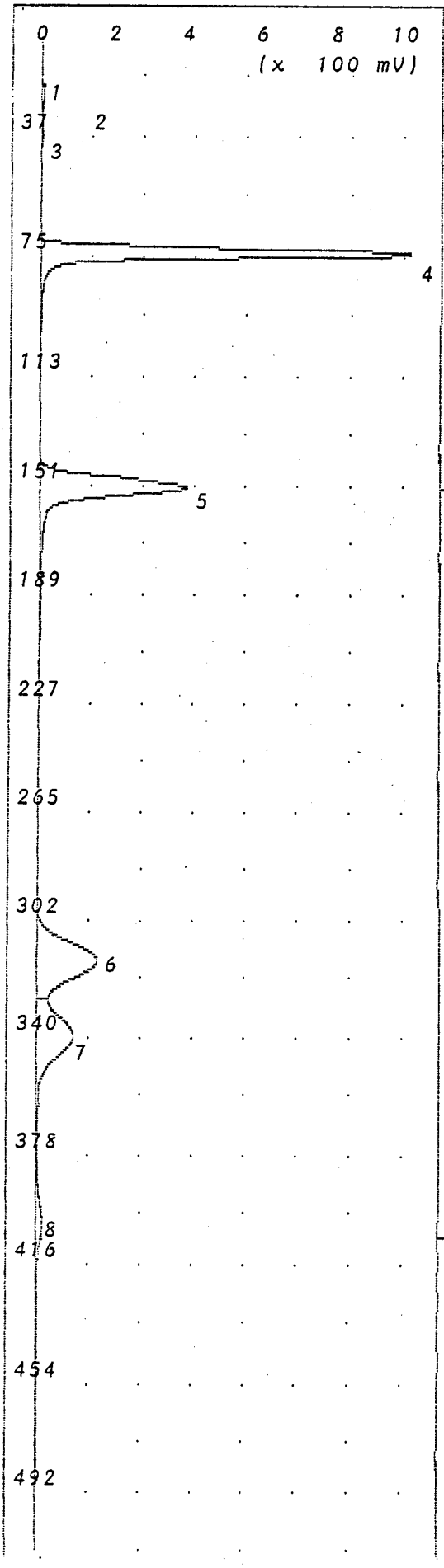
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	132.4 mVS	18.9
2	Unknown	0.559 mVS	27.8
3	Unknown	0.068 mVS	54.3
4	Benzene	88.95 ppb	71.4
5	Toluene	103.6 ppb	148.6
6	Unknown	1.652 mVS	277.8
7	Ethylbenzene	110.6 ppb	312.5
8	MP Xylene	226.6 ppb	337.3
9	O Xylene	114.7 ppb	398.6

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
100 ppb BTEX Standard

Analysis #2 10S+ GC Function Analysis Report



Time Printed: Oct 26,94 11:31
Sample Time: Oct 26,94 11:22

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

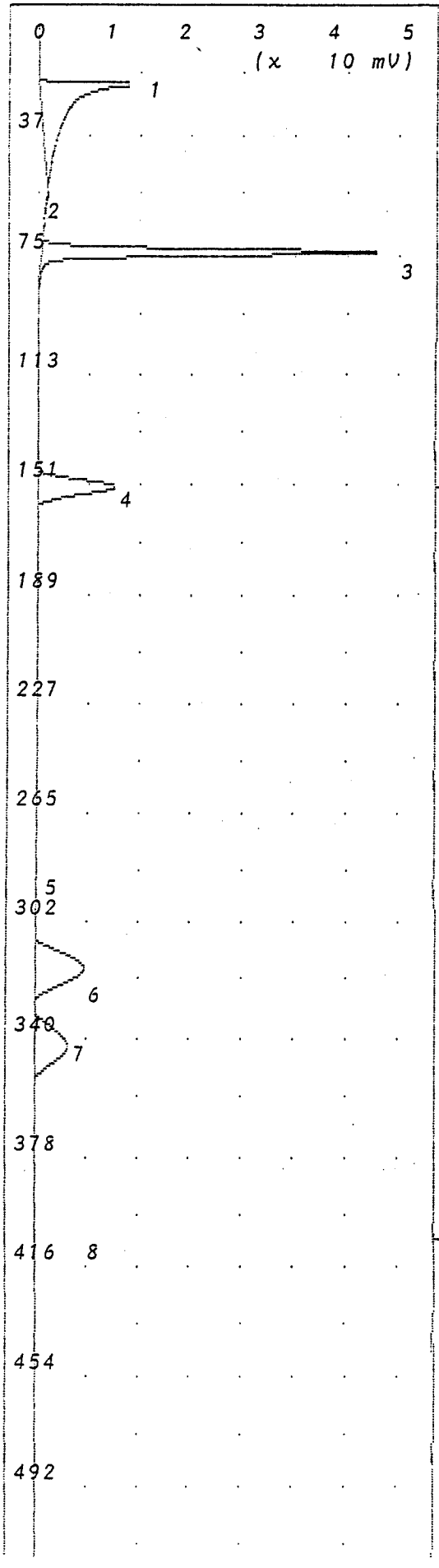
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	17.98 mVS	19.0
2	Unknown	47.30 mVS	20.9
3	Unknown	57.11 mVS	28.0
4	Benzene	948.2 ppb	72.1
5	Toluene	909.4 ppb	149.6
6	Ethylbenzene	905.5 ppb	313.3
7	MP Xylene	1.812 ppm	338.0
8	O Xylene	820.9 ppb	397.3

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
1 ppm BTEX Standard

Analysis #10 10S+ GC Function Analysis Report



Time Printed: Oct 26,94 14:04
Sample Time: Oct 26,94 13:55

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	113.8 mVS	19.4
2	Unknown	0.143 mVS	54.3
3	Benzene	76.72 ppb	71.8
4	Toluene	78.78 ppb	149.8
5	Unknown	2.541 mVS	279.7
6	Ethylbenzene	115.7 ppb	315.4
7	MP Xylene	257.5 ppb	340.6
8	O Xylene	175.1 ppb	402.0

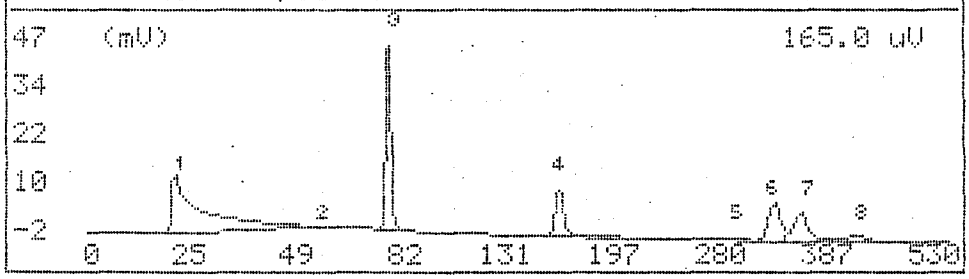
Notes

Mark Escobar
Billy Mitchell Air National Guard Base
100 ppb BTEX Standard

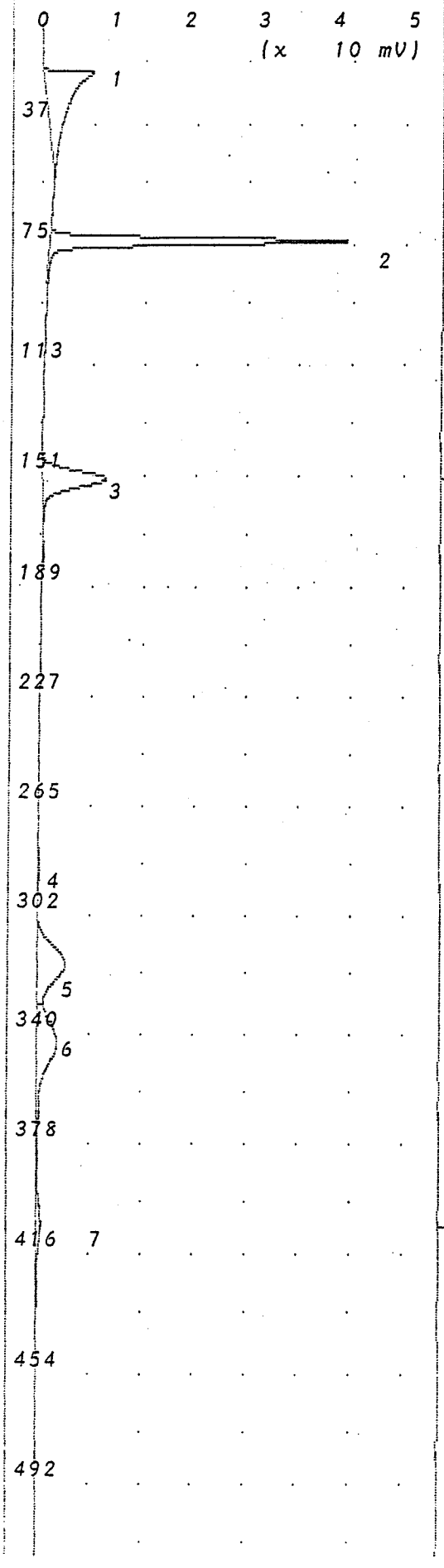
Fault: Calibrant 10S+ GC Function Oct 26,94 14:07
-- Analysis No 10 -- Run at - Oct 26,94 13:55 -

Pk No	Name	Conc/Area		Alarm	Ret.Time	
1	Unknown	113.8	mVS	-No-	19.4	sec
2	Unknown	0.143	mVS	-No-	54.3	sec
3	Benzene	99.99	ppb	-No-	71.8	sec
4	Toluene	100.0	ppb	-No-	149.8	sec
5	Unknown	2.541	mVS	-No-	279.7	sec
6	Ethylbenzene	100.0	ppb	-No-	315.4	sec
7	MP Xylene	100.0	ppb	-No-	340.6	sec
8	O Xylene	100.6	ppb	-No-	402.0	sec

- Detected 8 peaks. [535 sec]



Analysis #17 10S+ GC Function Analysis Report



Time Printed: Oct 26,94 15:25
Sample Time: Oct 26,94 15:16

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	83.48	mVS	19.2
2	Benzene	88.50	ppb	72.0
3	Toluene	71.98	ppb	150.0
4	Unknown	2.286	mVS	280.8
5	Ethylbenzene	43.14	ppb	315.7
6	MP Xylene	41.24	ppb	341.0
7	O Xylene	22.91	ppb	402.3

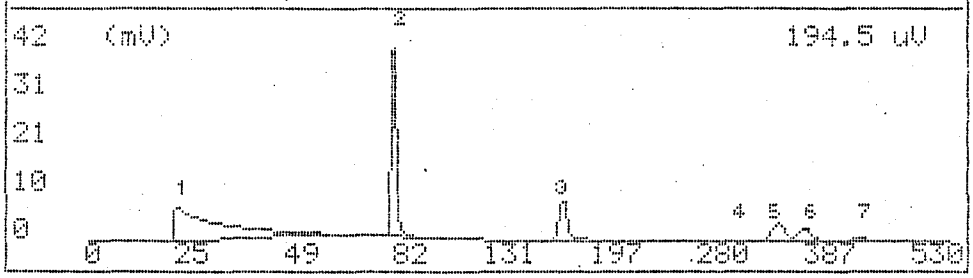
Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
100 ppb BTEX Standard

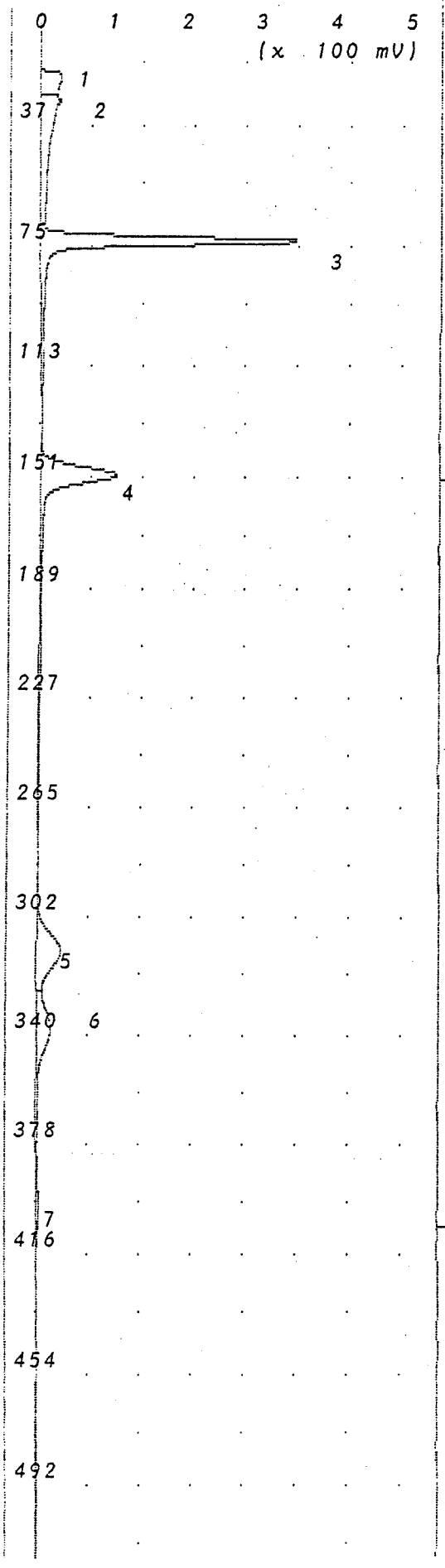
Fault: Calibrant 10S+ GC Function Oct 26,94 15:30
-- Analysis No 17 -- Run at - Oct 26,94 15:16 -

Pk No	Name	Conc/Area		Alarm	Ret.Time	
1	Unknown	83.48	mVS	-No-	19.2	sec
2	Benzene	99.99	ppb	-No-	72.0	sec
3	Toluene	100.0	ppb	-No-	150.0	sec
4	Unknown	2.286	mVS	-No-	280.8	sec
5	Ethylbenzene	100.0	ppb	-No-	315.7	sec
6	MP Xylene	200.0	ppb	-No-	341.0	sec
7	O Xylene	100.0	ppb	-No-	402.3	sec

- Detected 7 peaks. [535 sec]



Analysis #1 10S+ GC Function Analysis Report



Time Printed: Oct 27,94 10:01
Sample Time: Oct 27,94 09:52

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	32	C
Max Gain	1000	
Analysis Time	530.0	sec

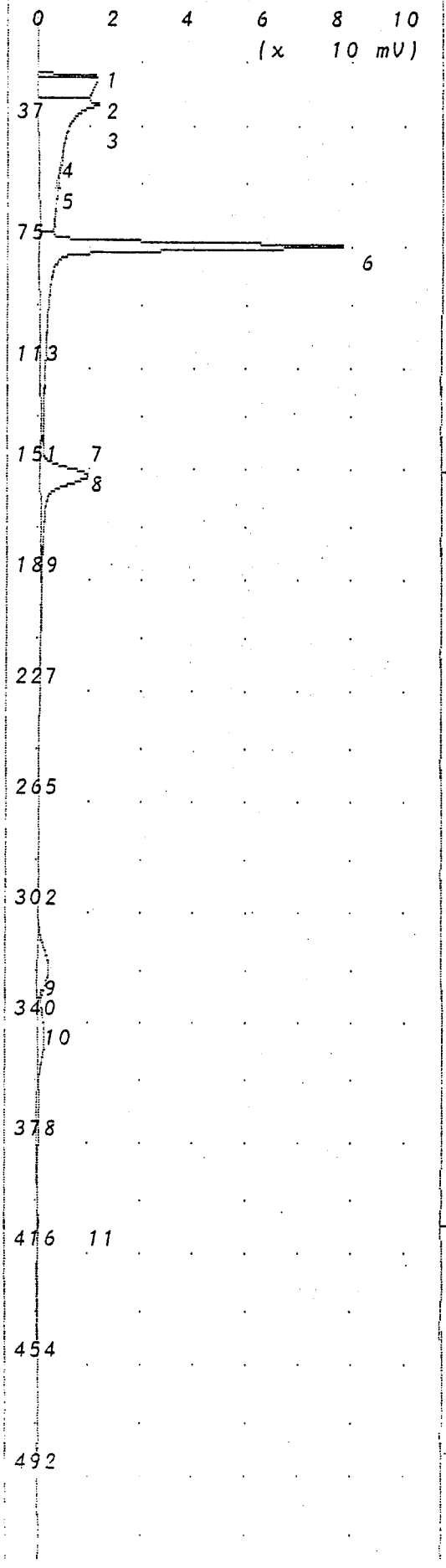
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	216.3	mVS	19.0
2	Unknown	516.2	mVS	27.9
3	Benzene	377.0	ppb	71.6
4	Toluene	346.9	ppb	148.4
5	Ethylbenzene	255.8	ppb	311.4
6	MP Xylene	521.6	ppb	332.2
7	O Xylene	311.3	ppb	397.0

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
100 ppb BTEX standard

Analysis #17 10S+ GC Function Analysis Report



Time Printed: Oct 29,94 13:07
Sample Time: Oct 29,94 12:58

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

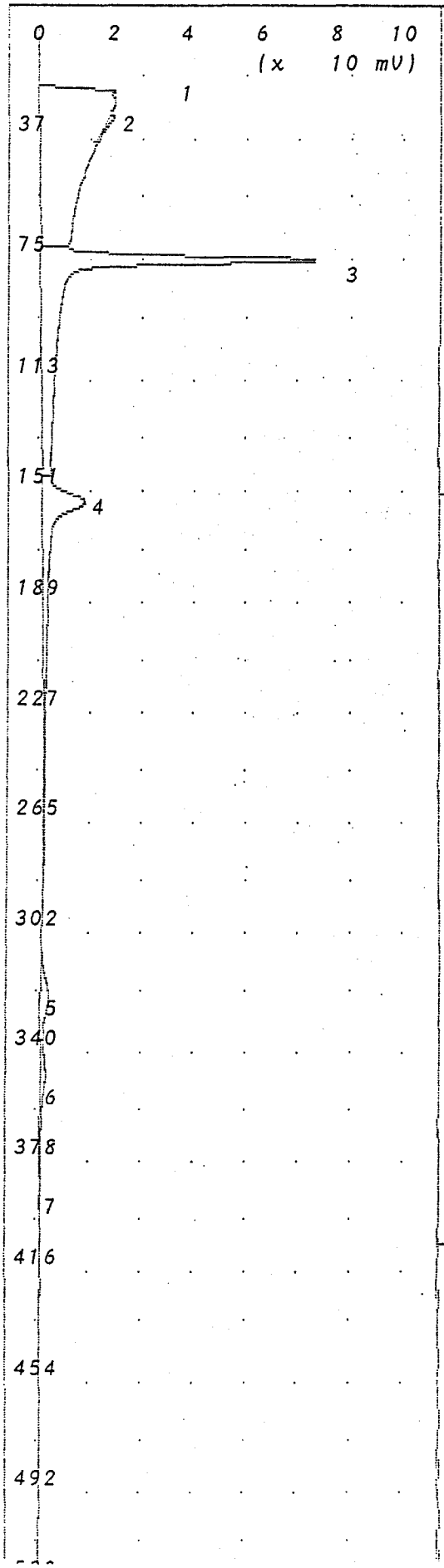
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	27.09	mVS	20.0
2	Unknown	100.3	mVS	21.7
3	Unknown	294.8	mVS	28.7
4	Unknown	0.667	mVS	47.1
5	Unknown	0.754	mVS	54.0
6	Benzene	112.5	ppb	72.9
7	Unknown	0.151	mVS	136.5
8	Toluene	103.9	ppb	151.2
9	Ethylbenzene	100.6	ppb	317.6
10	MP Xylene	201.5	ppb	342.6
11	O Xylene	91.82	ppb	403.0

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
100 ppb BTEX Standard

Analysis #26 10S+ GC Function Analysis Report



Time Printed: Oct 29,94 15:17
Sample Time: Oct 29,94 15:08

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	31	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	694.3	mVS	20.6
2	Unknown	6.364	mVS	28.8
3	Benzene	120.9	ppb	73.3
4	Toluene	110.4	ppb	152.4
5	Ethylbenzene	77.71	ppb	320.2
6	MP Xylene	120.6	ppb	345.3
7	O Xylene	3.538	ppb	382.3

Notes

Billy Mitchell Air National Guard Base

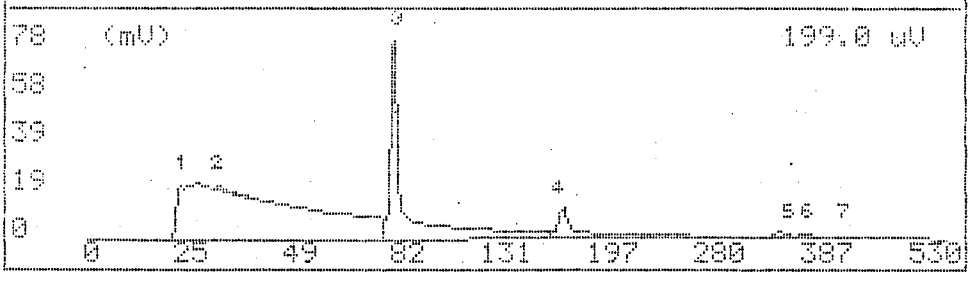
Mark Escobar

100 ppb BTEX Standard

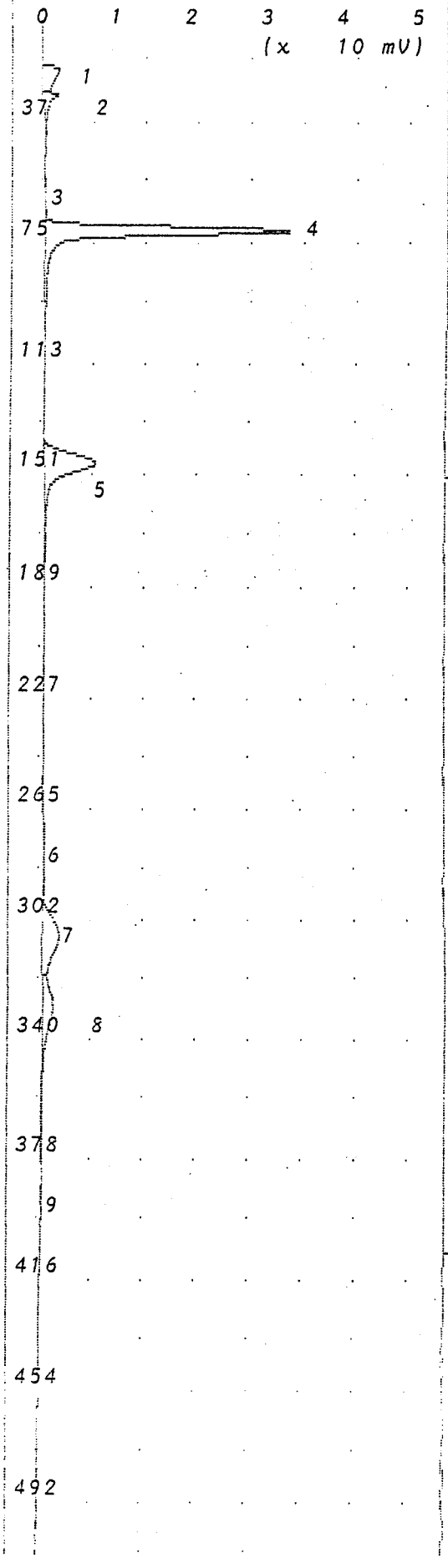
G.C. Ready 106+ GC Function Oct 29,94 15:20
-- Analysis No 26 -- Run at - Oct 29,94 15:00 -

Pk No	Name	Conc/Area		Alarm	Ret.Time	
1	Unknown	694.3	mVS	-No-	20.6	sec
2	Unknown	6.364	mVS	-No-	220.3	sec
3	Benzene	100.0	ppb	-No-	724.3	sec
4	Toluene	100.0	ppb	-No-	1532.4	sec
5	Ethylbenzene	99.99	ppb	-No-	3200.2	sec
6	MP Xylene	200.0	ppb	-No-	3445.4	sec
7	O Xylene	100.0	ppb	-No-	3822.3	sec

- Detected 7 peaks. [535 sec]



Analysis #1 10S+ GC Function Analysis Report



Time Printed: Oct 31,94 13:51
Sample Time: Oct 31,94 13:42

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	28	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

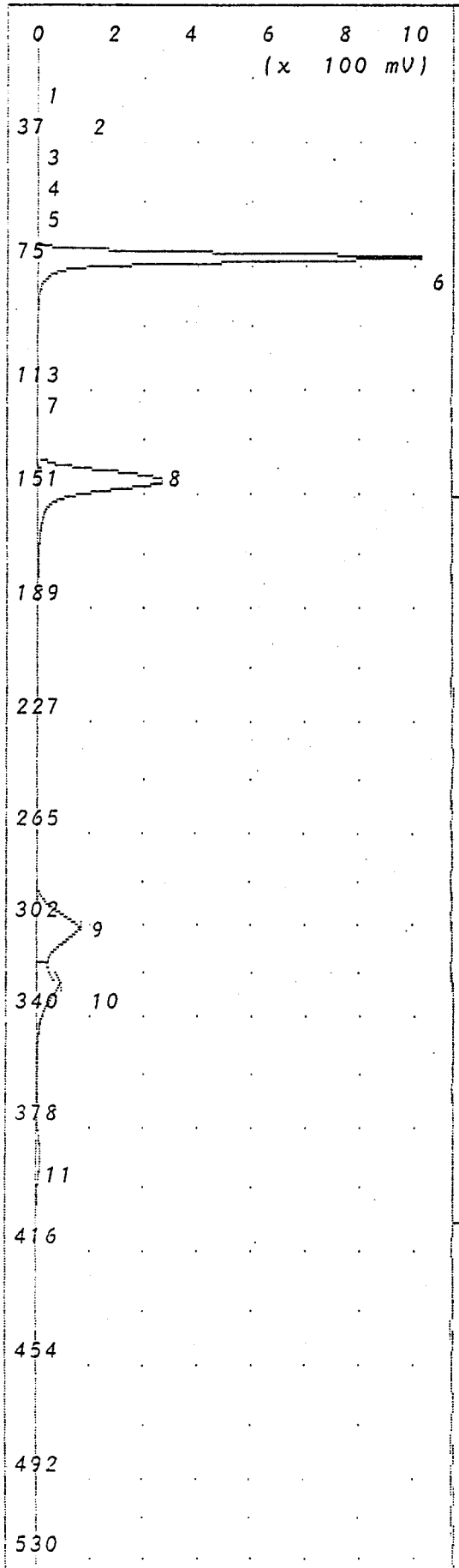
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	14.72 mVS	18.6
2	Unknown	9.155 mVS	26.9
3	Unknown	1.779 mVS	55.4
4	Unknown	105.8 mVS	69.4
5	Unknown	53.43 mVS	145.6
6	Unknown	5.029 mVS	274.9
7	Unknown	32.83 mVS	305.8
8	Unknown	23.66 mVS	324.8
9	Unknown	0.564 mVS	387.0

Notes

Billy Mitchell Air National
Guard Base

Mark Escobar
100 BTEX Standard

Analysis #2 10S+ GC Function Analysis Report



Time Printed: Oct 31,94 14:06
Sample Time: Oct 31,94 13:57

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	30	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

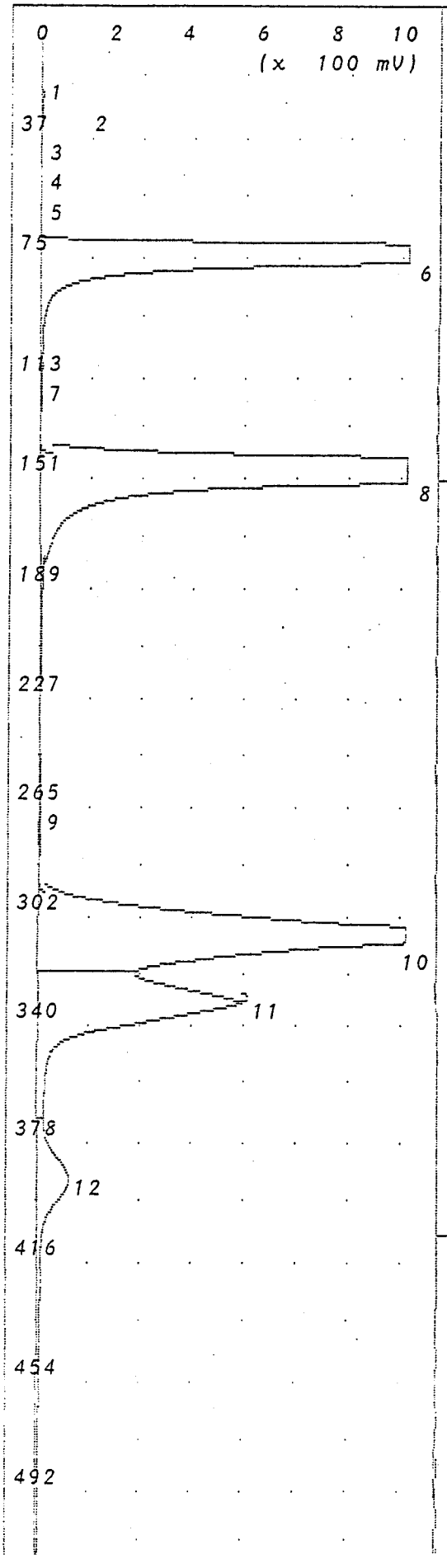
Pk	Compound Name	Area/Conc		R.T.
1	Unknown	5.541	mVS	18.7
2	Unknown	19.86	mVS	20.9
3	Unknown	36.37	mVS	27.6
4	Unknown	0.237	mVS	45.0
5	Unknown	9.184	mVS	55.5
6	Benzene	3.582	ppm	70.5
7	Unknown	0.300	mVS	107.6
8	Toluene	5.261	ppm	145.0
9	Ethylbenzene	5.401	ppm	302.9
10	MP Xylene	10.13	ppm	326.4
11	O Xylene	73.19	ppm	385.3

Notes

Billy Mitchell Air National
Guard Base

Mark Escobar
1 ppm BTEX Standard

Analysis #3 10S+ GC Function Analysis Report



Time Printed: Oct 31,94 14:18
Sample Time: Oct 31,94 14:09

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	31	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	5.093	mVS	19.0
2	Unknown	39.21	mVS	21.4
3	Unknown	48.66	mVS	28.0
4	Unknown	7.472	mVS	45.6
5	Unknown	6.512	mVS	52.6
6	Benzene	4.834	ppm	71.8
7	Unknown	4.571	mVS	107.4
8	Toluene	6.517	ppm	146.2
9	Unknown	1.740	mVS	261.0
10	Ethylbenzene	8.716	ppm	306.1
11	MP Xylene	15.46	ppm	329.3
12	O Xylene	5.011	ppm	387.6

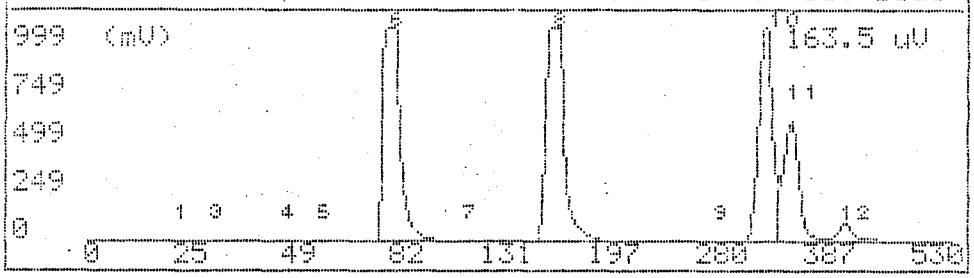
Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
10 ppm BTEX Standard

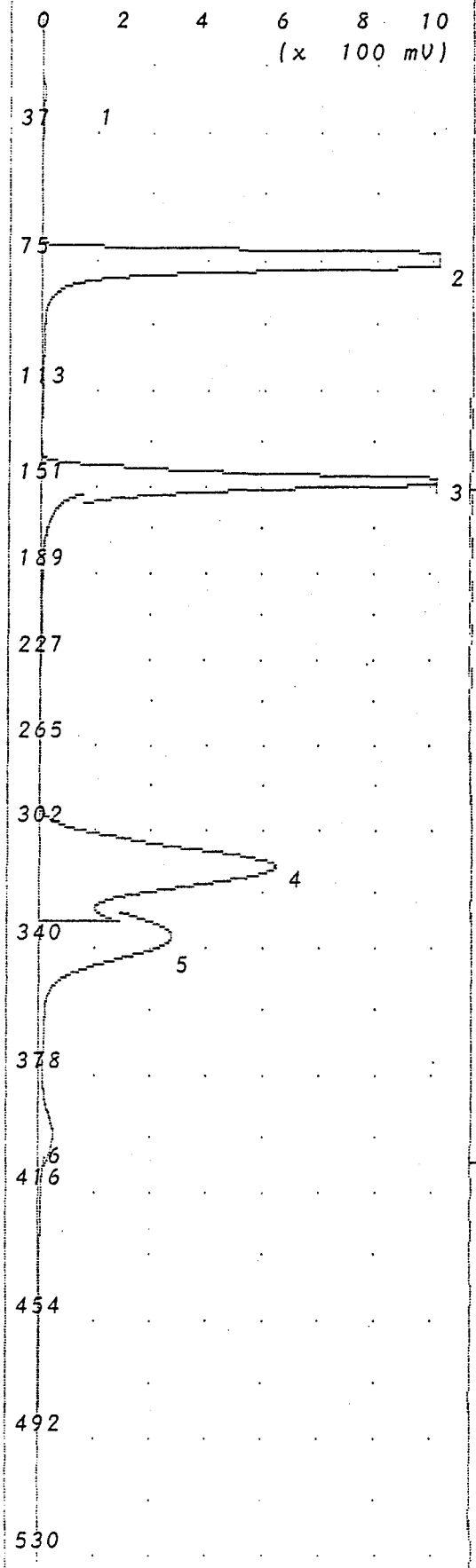
G.C. Ready 10S+ GC Function Oct 31,94 14:21
-- Analysis No 3 -- Run at - Oct 31,94 14:09 -

Pk No	Name	Conc/Area		Alarm	Ret.Time	
1	Unknown	5.093	mVS	-No-	19.0	sec
2	Unknown	39.21	mVS	-No-	21.4	sec
3	Unknown	48.66	mVS	-No-	28.0	sec
4	Unknown	7.472	mVS	-No-	45.6	sec
5	Unknown	6.512	mVS	-No-	52.6	sec
6	Benzene	10.00	ppm	-No-	71.0	sec
7	Unknown	4.571	mVS	-No-	107.4	sec
8	Toluene	10.00	ppm	-No-	146.2	sec
9	Unknown	1.740	mVS	-No-	261.0	sec

- Detected 12 peaks. Use ↑ ↓ to scroll [535 sec]



Analysis #11 10S+ GC Function Analysis Report



Time Printed: Oct 31,94 16:06
Sample Time: Oct 31,94 15:57

Method

Slope Up	3.000	mV/Sec
Slope Down	3.000	mV/Sec
Min Area	1.000	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	177.2	mVS	22.1
2	Benzene	3.966	ppm	72.6
3	Toluene	6.150	ppm	148.8
4	Ethylbenzene	5.632	ppm	310.9
5	MP Xylene	10.40	ppm	334.6
6	O Xylene	4.572	ppm	393.6

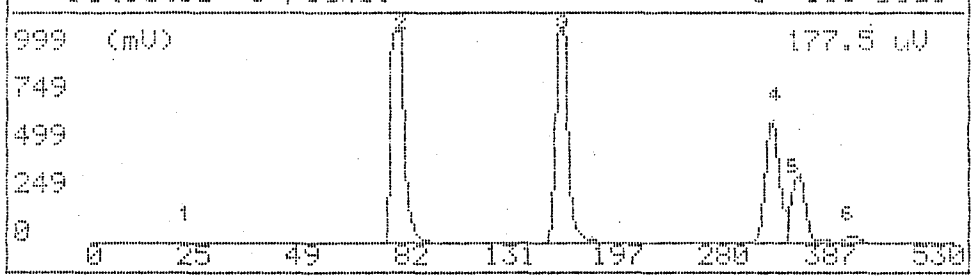
Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
10 ppm BTEX Standard

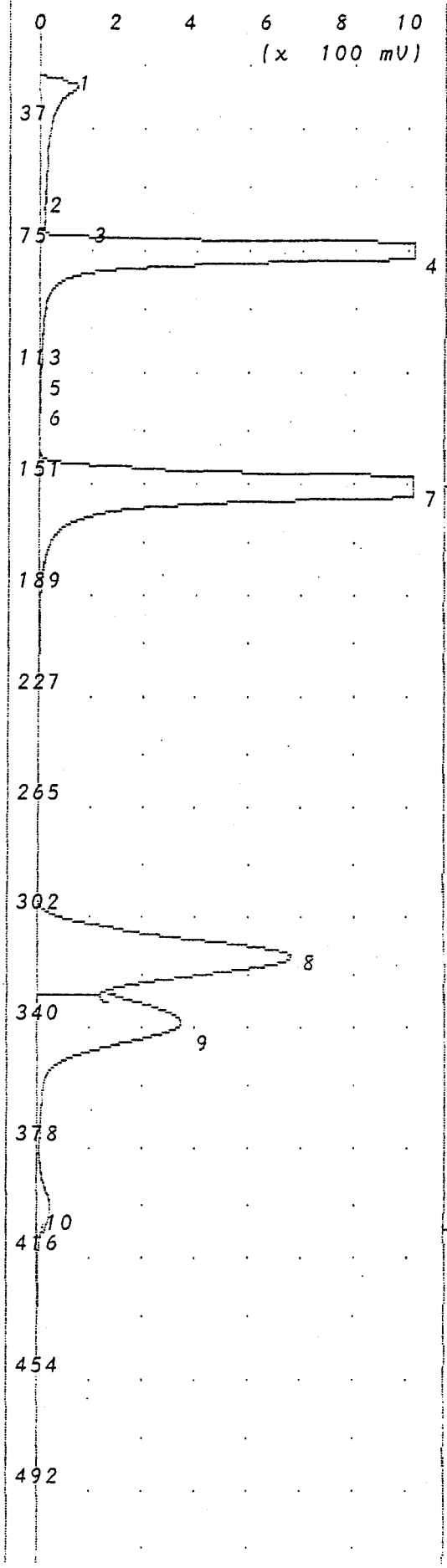
G.C. Ready 10S+ GC Function Oct 31,94 16:23
-- Analysis No 11 -- Run at - Oct 31,94 15:57 -

Pk No	Name	Conc/Area	Alarm	Ret.Time
1	Unknown	177.6 mVS	-No-	22.1 sec
2	Benzene	10.00 ppm	-No-	72.6 sec
3	Toluene	10.00 ppm	-No-	148.8 sec
4	Ethylbenzene	10.00 ppm	-No-	310.9 sec
5	MP Xylene	20.01 ppm	-No-	334.6 sec
6	O Xylene	10.15 ppm	-No-	393.6 sec

- Detected 6 peaks. [535 sec]



Analysis #12 10S+ GC Function Analysis Report



Time Printed: Nov 1,94 14:06
Sample Time: Nov 1,94 13:57

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

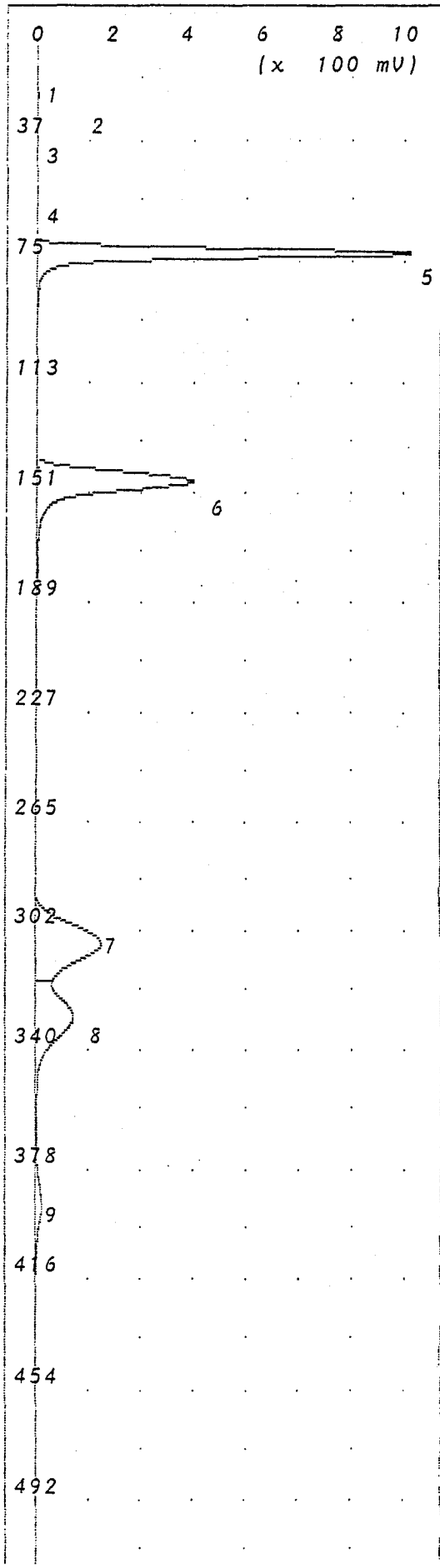
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	1.669	VSec	21.9
2	Unknown	2.022	mVS	53.8
3	Unknown	2.323	mVS	61.8
4	Benzene	9.702	ppm	73.2
5	Unknown	2.507	mVS	108.8
6	Unknown	1.669	mVS	114.8
7	Toluene	8.215	ppm	149.8
8	Ethylbenzene	5.800	ppm	312.8
9	MP Xylene	12.89	ppm	336.6
10	O Xylene	3.711	ppm	395.3

Notes

Billy Mitchell Air National
Guard Station
Mark Escobar
10 ppm BTEX Standard

Analysis #5 10S+ GC Function Analysis Report



Time Printed: Nov 1,94 09:25
Sample Time: Nov 1,94 09:16

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	32	C
Max Gain	1000	
Analysis Time	530.0	sec

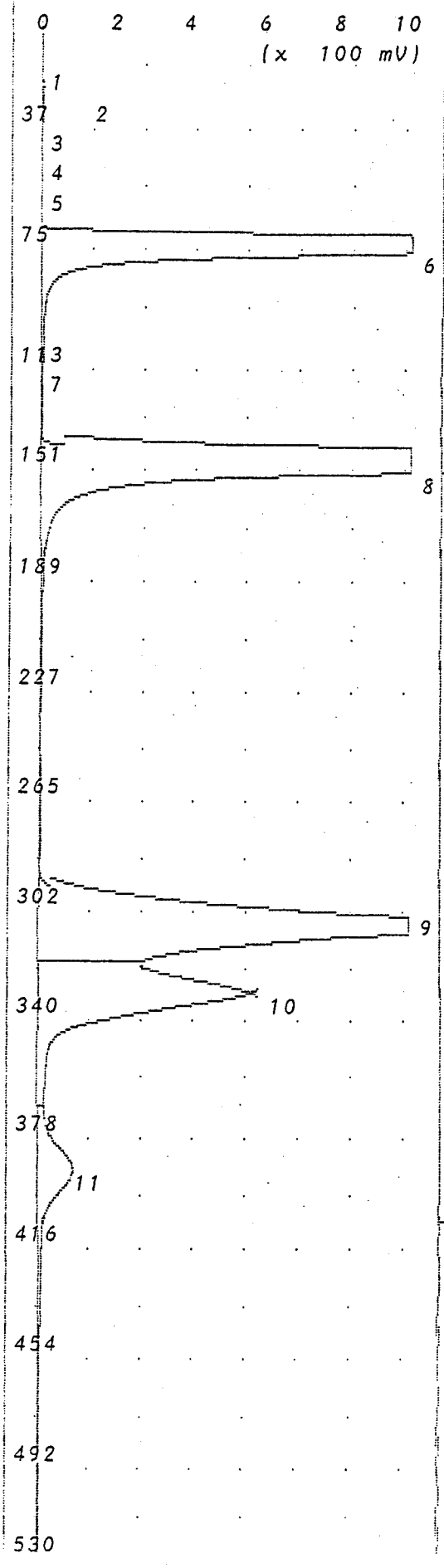
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	5.164	mVS	18.8
2	Unknown	21.42	mVS	21.0
3	Unknown	27.89	mVS	27.7
4	Unknown	0.627	mVS	54.1
5	Benzene	1.057	ppm	70.6
6	Toluene	1.173	ppm	145.4
7	Ethylbenzene	1.437	ppm	304.2
8	MP Xylene	521.8	ppb	327.7
9	O Xylene	1.743	ppm	386.0

Notes

Billy Mitchell Air National
Guard Station
Mark Escobar
1 ppm BTEX Standard

Analysis #4 10S+ GC Function Analysis Report



Time Printed: Nov 1,94 09:11
Sample Time: Nov 1,94 09:02

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	31	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

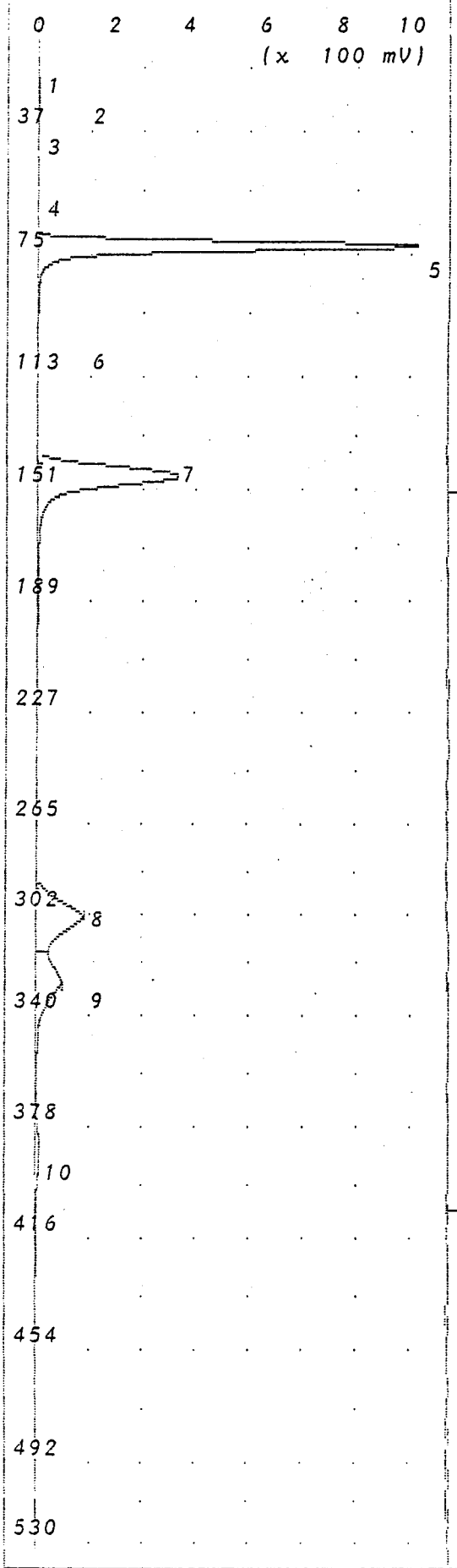
Pk	Compound Name	Area/Conc		R.T.
1	Unknown	5.097	mVS	19.0
2	Unknown	39.15	mVS	21.2
3	Unknown	58.63	mVS	28.0
4	Unknown	0.165	mVS	45.1
5	Unknown	7.629	mVS	52.1
6	Benzene	4.220	ppm	71.7
7	Unknown	3.798	mVS	107.4
8	Toluene	5.808	ppm	145.4
9	Ethylbenzene	8.134	ppm	304.5
10	MP Xylene	6.751	ppm	327.7
11	O Xylene	5.423	ppm	386.3

Notes

Billy Mitchell Air National
Guard Station

Mark Escobar
10 ppm BTEX Standard

Analysis #3 10S+ GC Function Analysis Report



Time Printed: Nov 1,94 08:59
Sample Time: Nov 1,94 08:50

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	31	C
Max Gain	1000	
Analysis Time	530.0	sec

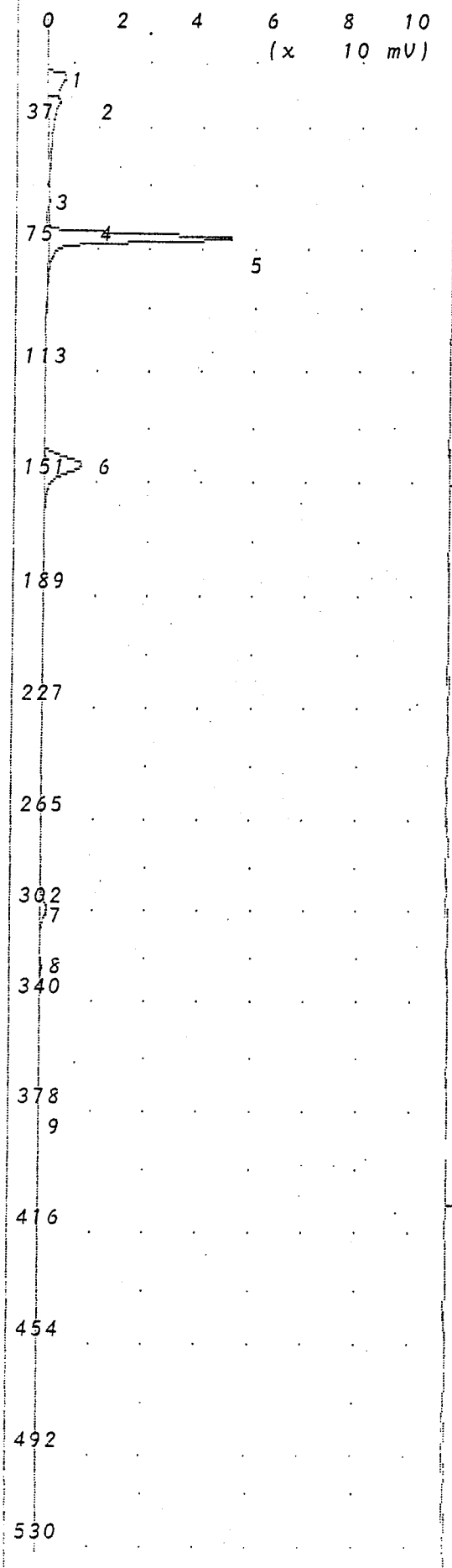
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	7.468	mVS	19.6
2	Unknown	30.73	mVS	21.1
3	Unknown	40.28	mVS	27.8
4	Unknown	0.225	mVS	54.6
5	Benzene	2.812	ppm	70.6
6	Unknown	0.282	mVS	106.6
7	Toluene	3.862	ppm	145.0
8	Ethylbenzene	4.217	ppm	302.6
9	MP Xylene	5.936	ppm	326.1
10	O Xylene	1.585	ppm	384.6

Notes

Billy Mitchell Air National
Guard Station
Mark Escobar
1 ppm BTEX Standard

Analysis #2 10S+ GC Function Analysis Report



Time Printed: Nov 1,94 08:43
Sample Time: Nov 1,94 08:34

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	29	C
Max Gain	1000	
Analysis Time	530.0	sec

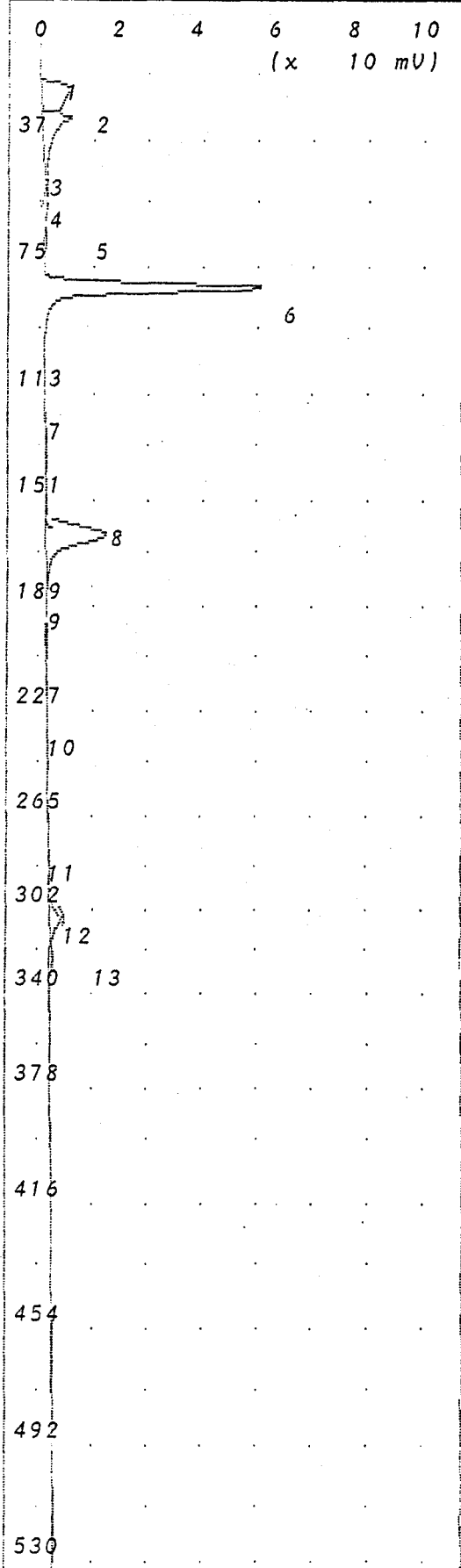
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	35.37 mVS	19.6
2	Unknown	38.82 mVS	27.6
3	Unknown	1.176 mVS	53.9
4	Unknown	0.032 mVS	60.0
5	Unknown	149.4 mVS	69.7
6	Unknown	80.02 mVS	143.6
7	Unknown	45.27 mVS	300.0
8	Unknown	43.42 mVS	324.5
9	Unknown	27.35 mVS	381.6

Notes

Billy Mitchell Air National
Guard Station
Mark Escobar
100 ppb BTEX Standard

Analysis #1 10S+ GC Function Analysis Report



Time Printed: Nov 1,94 08:15
Sample Time: Nov 1,94 08:06

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	26	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	59.17	mVS	20.3
2	Unknown	55.19	mVS	28.7
3	Unknown	0.098	mVS	47.6
4	Unknown	0.346	mVS	50.6
5	Unknown	0.082	mVS	54.6
6	Unknown	203.7	mVS	79.4
7	Unknown	14.91	mVS	120.8
8	Unknown	117.9	mVS	162.2
9	Unknown	0.115	mVS	189.8
10	Unknown	2.837	mVS	230.8
11	Unknown	6.042	mVS	281.0
12	Unknown	48.34	mVS	306.1
13	Unknown	46.60	mVS	326.1

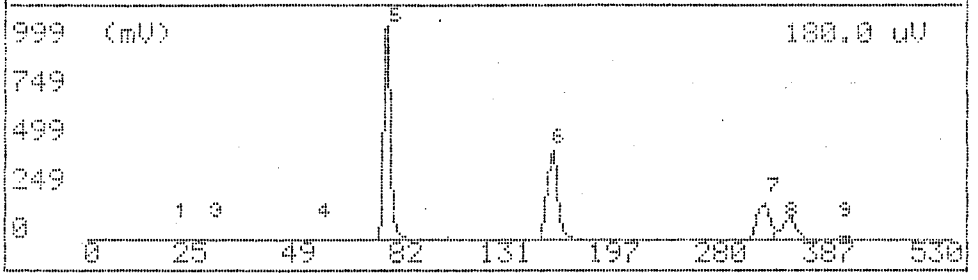
Notes

Billy Mitchell Air National
Guard Station
Mark Escobar
100 ppb BTEX Standard

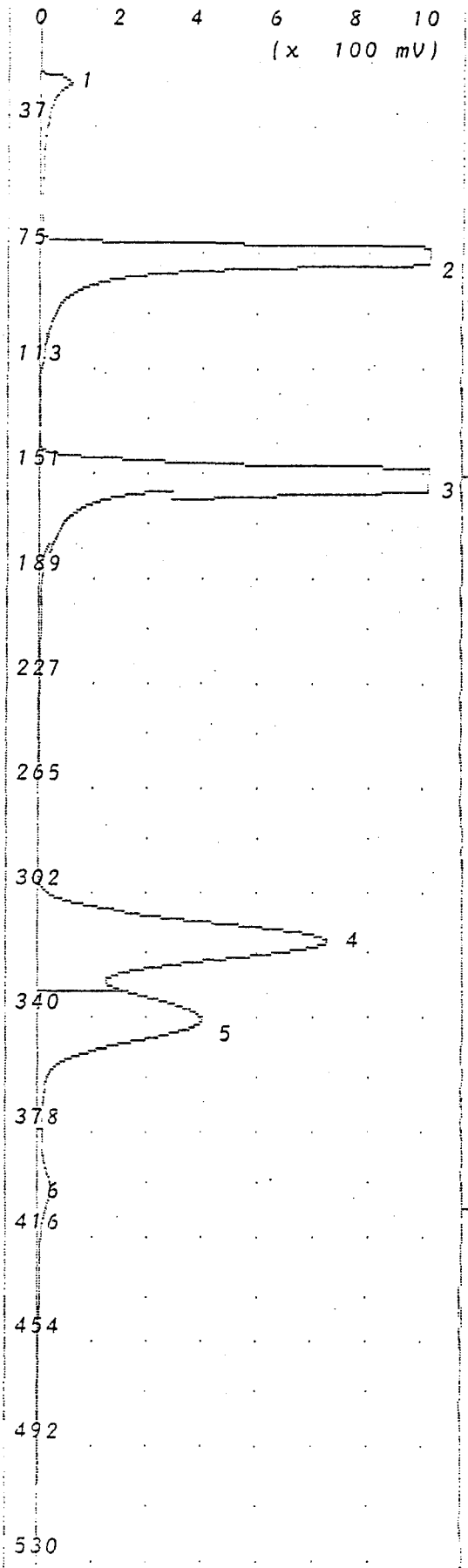
G.C. Ready 10S+ GC Function Nov 1,94 09:28
-- Analysis No 5 -- Run at - Nov 1,94 09:16 -

Pk No	Name	Conc/Area	Alarm	Ret.Time
1	Unknown	5.164 mVS	-No-	18.8 sec
2	Unknown	21.42 mVS	-No-	21.0 sec
3	Unknown	27.89 mVS	-No-	27.7 sec
4	Unknown	0.627 mVS	-No-	54.1 sec
5	Benzene	999.9 ppb	-No-	70.6 sec
6	Toluene	999.9 ppb	-No-	145.4 sec
7	Ethylbenzene	1.000 ppm	-No-	304.2 sec
8	MP Xylene	2.001 ppm	-No-	327.7 sec
9	O Xylene	1.021 ppm	-No-	386.0 sec

- Detected 9 peaks. [535 sec]



Analysis #20 10S+ GC Function Analysis Report



Time Printed: Nov 1,94 15:57
Sample Time: Nov 1,94 15:48

Method

Slope Up	3.000	mV/Sec
Slope Down	3.000	mV/Sec
Min Area	1.000	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

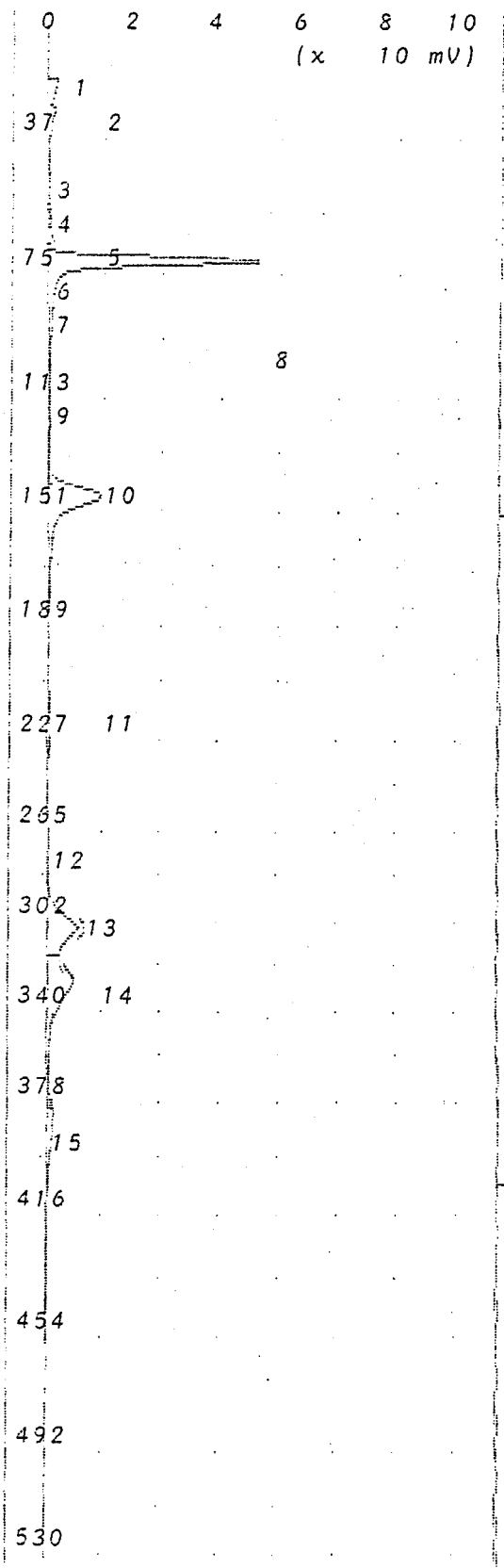
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	1.089	VSec	22.0
2	Benzene	11.70	ppm	74.0
3	Toluene	10.35	ppm	151.0
4	Ethylbenzene	11.70	ppm	314.9
5	MP Xylene	19.59	ppm	339.0
6	O Xylene	9.066	ppm	398.0

Notes

Billy Mitchell Air National
Guard Station
Mark Escobar
10 ppm BTEX Standard

Analysis #1 10S+ GC Function Analysis Report



Time Printed: Nov 2,94 08:14
Sample Time: Nov 2,94 08:05

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	28	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

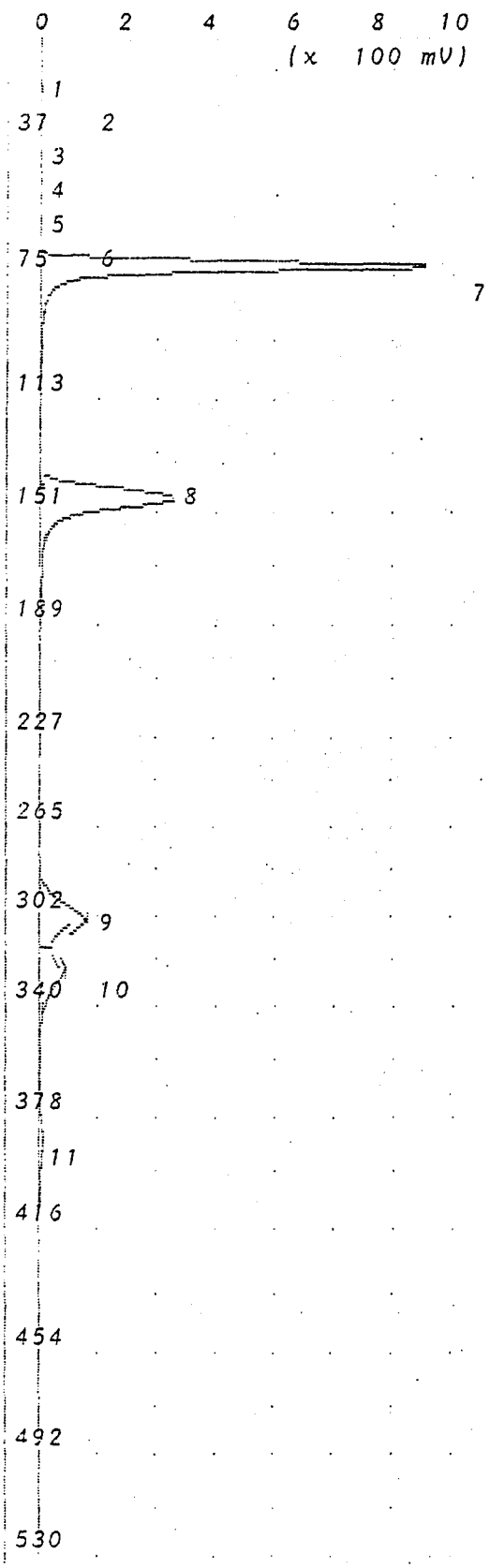
Pk	Compound Name	Area/Conc		R.T.
1	Unknown	16.92	mVS	18.9
2	Unknown	26.41	mVS	27.1
3	Unknown	0.247	mVS	42.4
4	Unknown	0.401	mVS	44.4
5	Unknown	0.096	mVS	51.5
6	Unknown	0.084	mVS	55.4
7	Unknown	6.444	mVS	60.4
8	Unknown	195.3	mVS	69.4
9	Unknown	0.258	mVS	112.5
10	Unknown	113.6	mVS	144.6
11	Unknown	0.884	mVS	213.8
12	Unknown	4.634	mVS	274.9
13	Unknown	123.3	mVS	305.0
14	Unknown	121.1	mVS	328.0
15	Unknown	41.90	mVS	385.3

Notes

Billy Mitchell Air National
Guard Station

Mark Escobar
100 ppb BTEX Standard

Analysis #2 10S+ GC Function Analysis Report



Time Printed: Nov 2,94 08:39
Sample Time: Nov 2,94 08:30

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	30	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

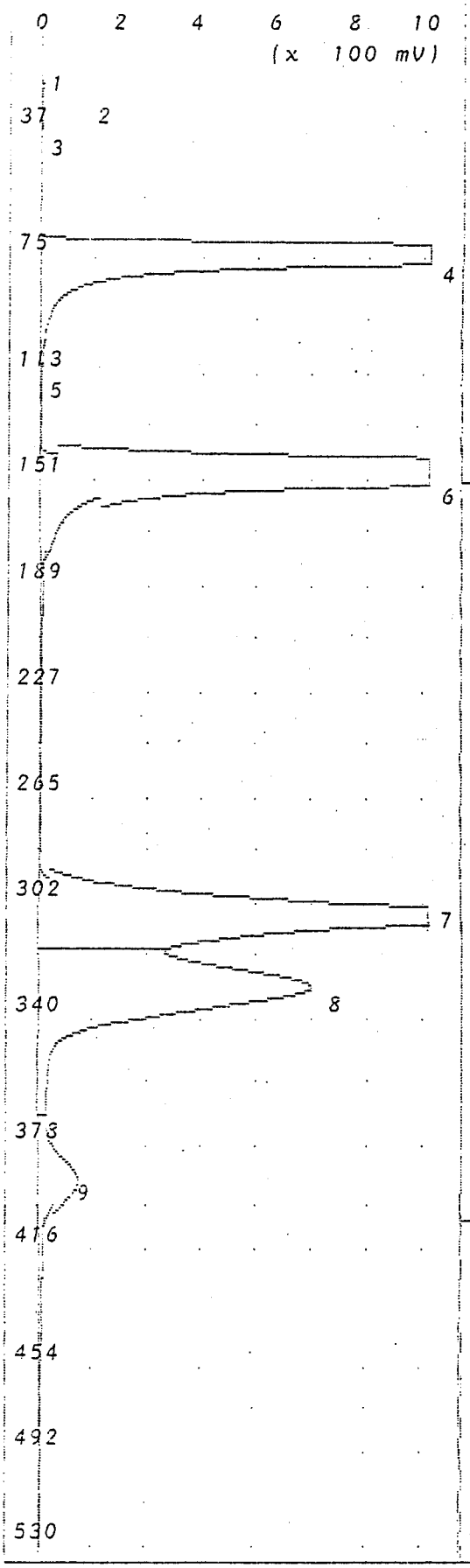
Pk	Compound Name	Area/Conc		R.T.
1	Unknown	4.880	mVS	19.0
2	Unknown	19.66	mVS	21.1
3	Unknown	18.92	mVS	27.9
4	Unknown	0.025	mVS	43.2
5	Unknown	0.021	mVS	52.1
6	Unknown	0.775	mVS	54.2
7	Benzene	1.859	ppm	70.8
8	Toluene	2.428	ppm	145.0
9	Ethylbenzene	1.424	ppm	302.9
10	MP Xylene	1.991	ppm	326.1
11	O Xylene	956.7	ppb	384.3

Notes

Billy Mitchell Air National
Guard Station

Mark Escobar
1 ppm BTEX Standard

Analysis #3 10S+ GC Function Analysis Report



Time Printed: Nov 2,94 08:52
Sample Time: Nov 2,94 08:43

Method

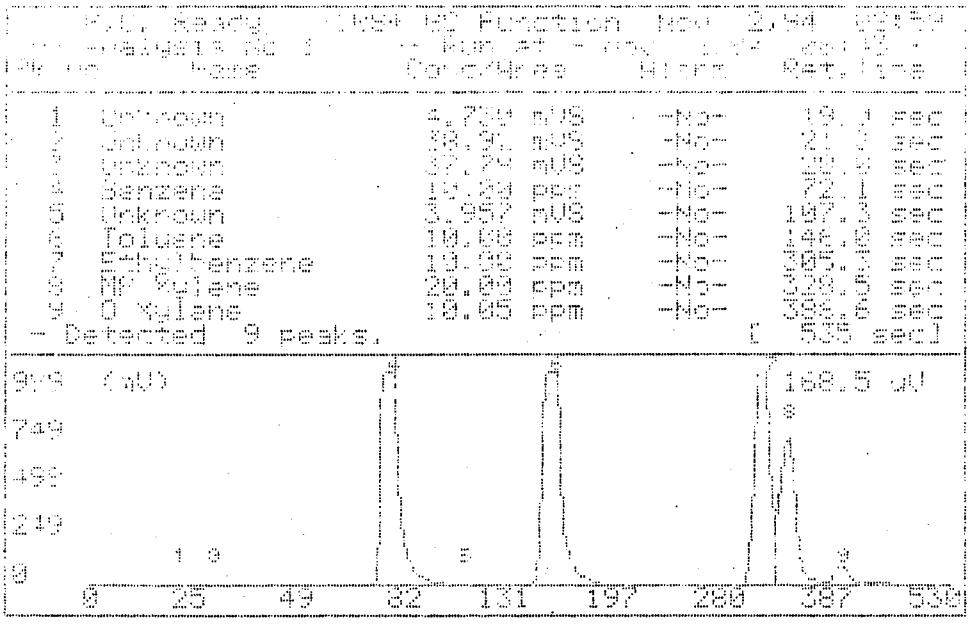
Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	31	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

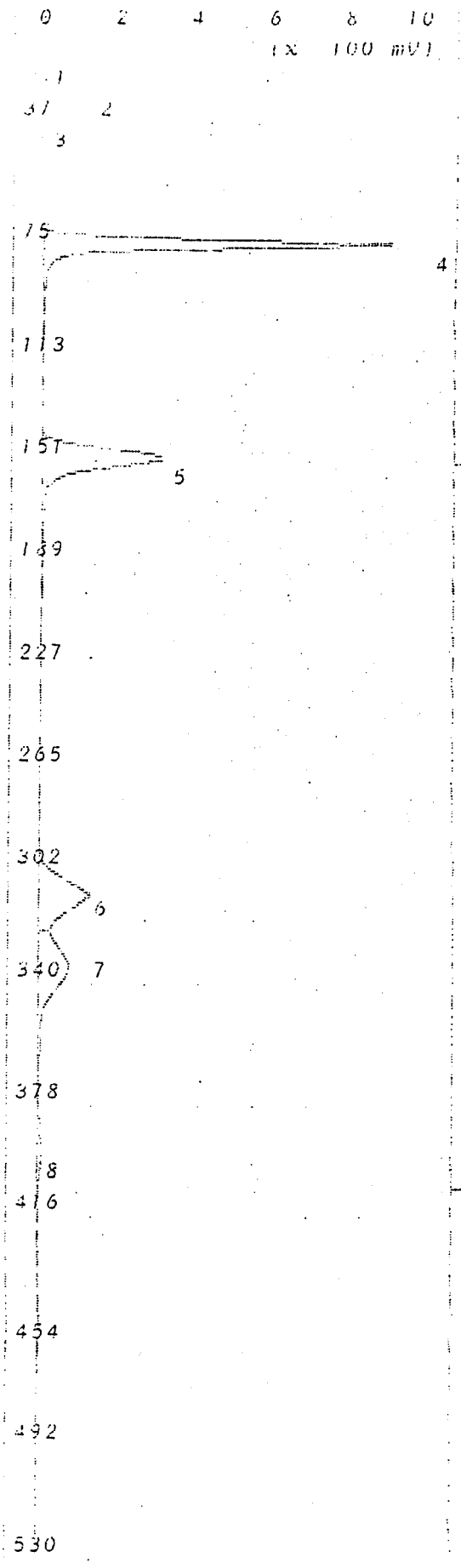
Pk	Compound Name	Area/Conc		R.T.
1	Unknown	4.730	mVS	19.0
2	Unknown	38.92	mVS	21.3
3	Unknown	37.79	mVS	28.0
4	Benzene	5.423	ppm	72.1
5	Unknown	3.957	mVS	107.3
6	Toluene	7.294	ppm	146.0
7	Ethylbenzene	11.41	ppm	305.3
8	MP Xylene	20.06	ppm	328.5
9	O Xylene	6.529	ppm	386.6

Notes

Billy Mitchell Air National
Guard Station
Mark Escobar
10 ppm BTEX Standard


P.I. Ready
Analysis No 1
Peak Name
Conc/Area
Ret.Time
1 Unknown 4.704 mVS 19.1 sec
2 Unknown 33.96 mVS 21.1 sec
3 Unknown 37.72 mVS 32.6 sec
4 Benzene 10.29 ppm 72.1 sec
5 Unknown 3.957 mVS 107.3 sec
6 Toluene 10.00 ppm 146.1 sec
7 Ethylbenzene 10.00 ppm 205.1 sec
8 MP Xylene 20.00 ppm 229.6 sec
9 O Xylene 10.05 ppm 266.6 sec
- Detected 9 peaks.
[535 sec]
9.5 (mV)
7.0
4.5
2.0
0
168.5 uV
0
25
49
82
131
197
280
387
538

Analysis #10 10S+ GC Function Analysis Report



Time Printed: Nov 2,94 10:21
Sample Time: Nov 2,94 10:13

Method

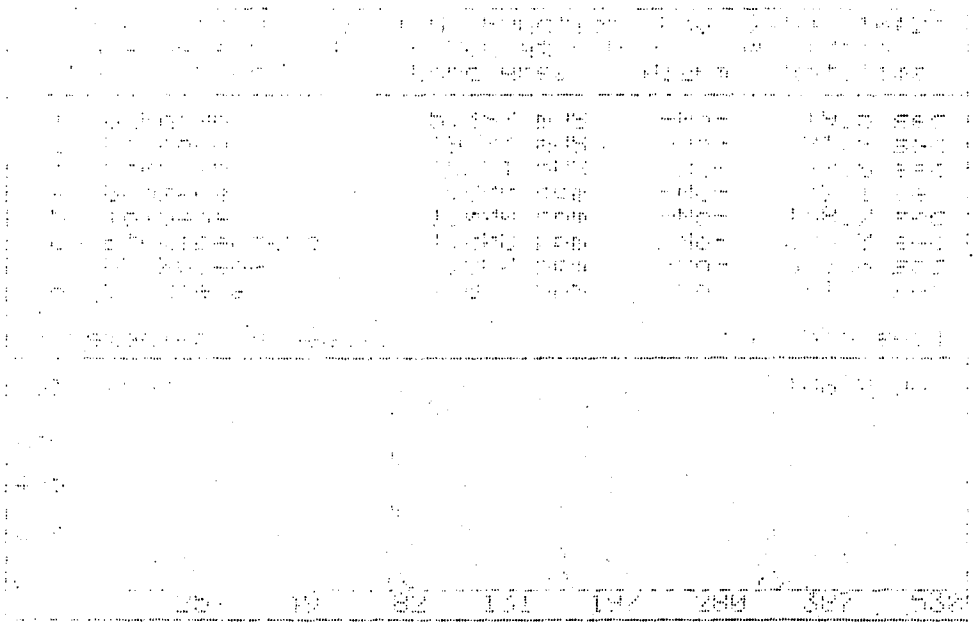
Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

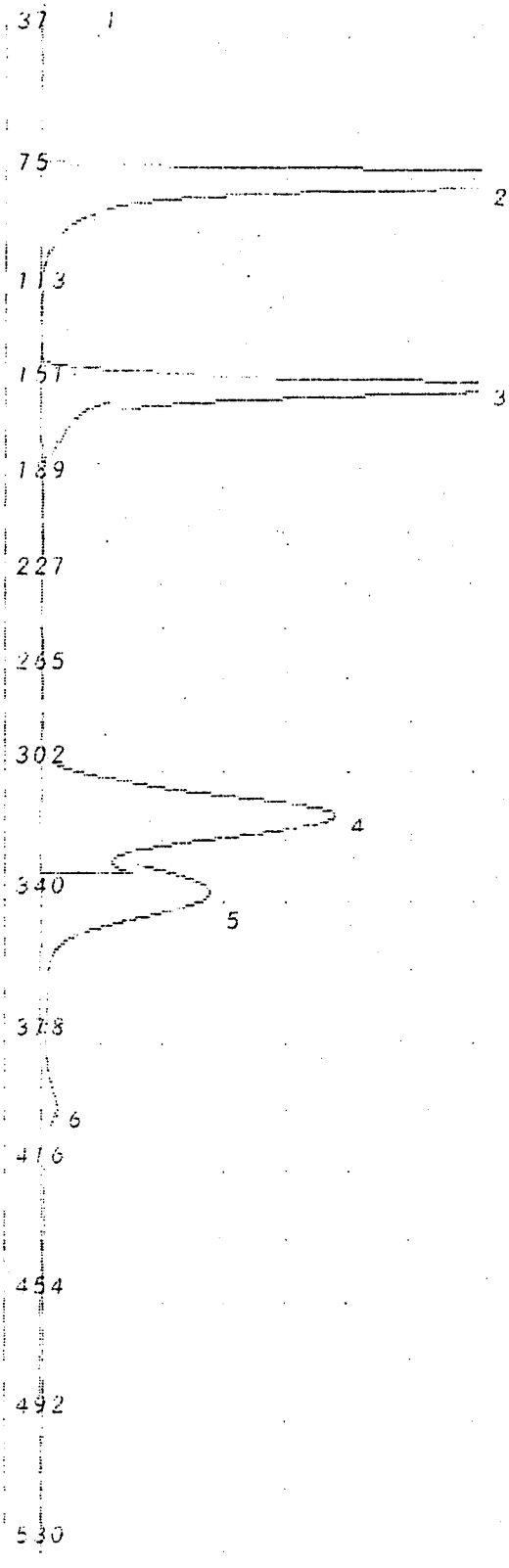
Pk	Compound Name	Area/Conc		R.T.
1	Unknown	5.387	mVS	19.5
2	Unknown	19.93	mVS	21.6
3	Unknown	19.21	mVS	28.6
4	Benzene	902.1	ppb	72.1
5	Toluene	938.8	ppb	148.2
6	Ethylbenzene	1.091	ppm	309.0
7	MP Xylene	2.324	ppm	332.8
8	O Xylene	894.5	ppb	391.6

Notes

Billy Mitchell Air National
Guard Station
Mark Escobar
1 ppm BTEX Standard



Analysis #1 105* GC Function Analysis Report



Time Printed: Nov 2.94 11:56
Sample Time: Nov 2.94 11:47

Method

Slope Up	3.000	mV/Sec
Slope Down	3.000	mV/Sec
Min Area	1.000	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

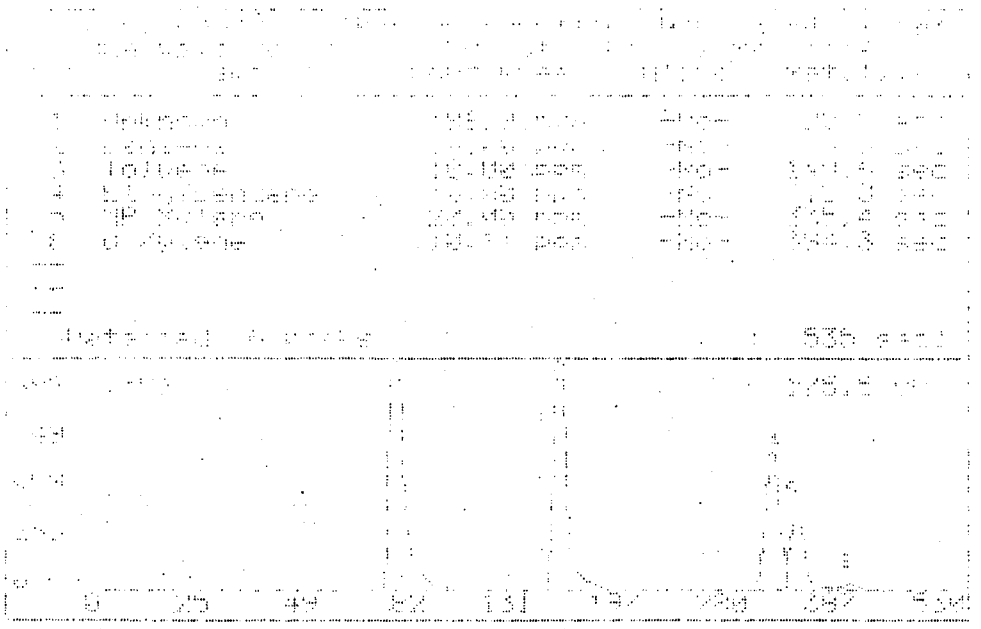
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	186.9	mVS	22.2
2	Benzene	5.909	ppm	73.3
3	Toluene	6.533	ppm	149.6
4	Ethylbenzene	5.090	ppm	312.0
5	MP Xylene	10.08	ppm	335.4
6	O Xylene	4.147	ppm	394.3

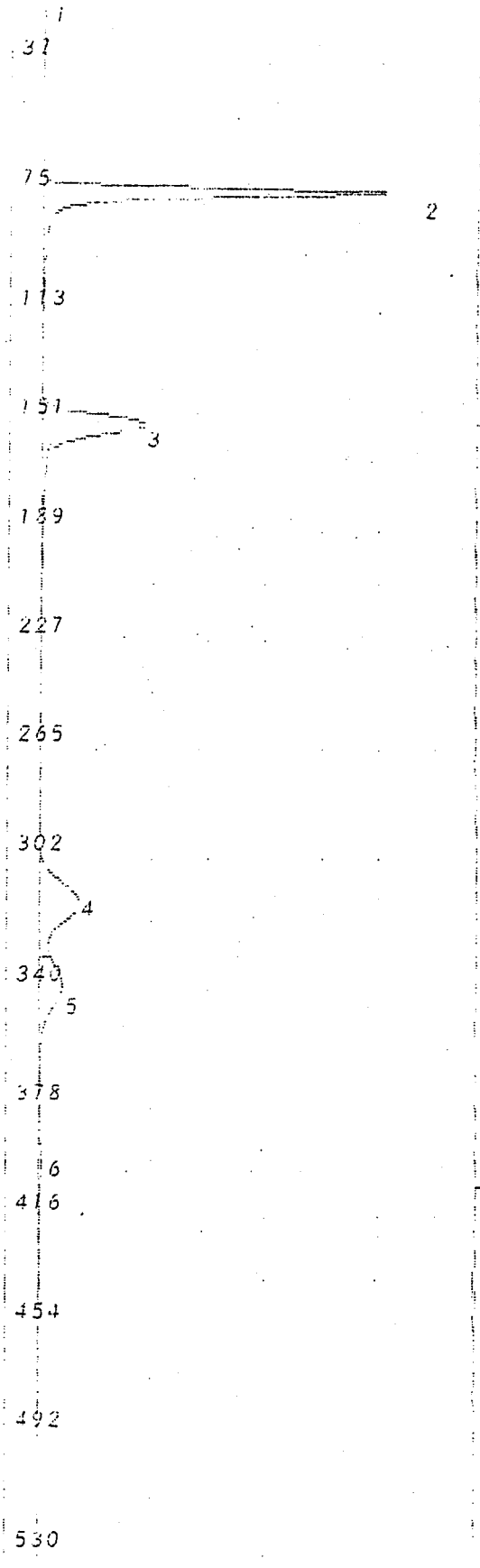
Notes

Billy Mitchell Air National
Guard Station
Mark Escobar

10 ppm BTEX Standard



Analysis #24 TOS+ GC Function Analysis Report



Time Printed: Nov 2,94 14:58
Sample Time: Nov 2,94 14:49

Method

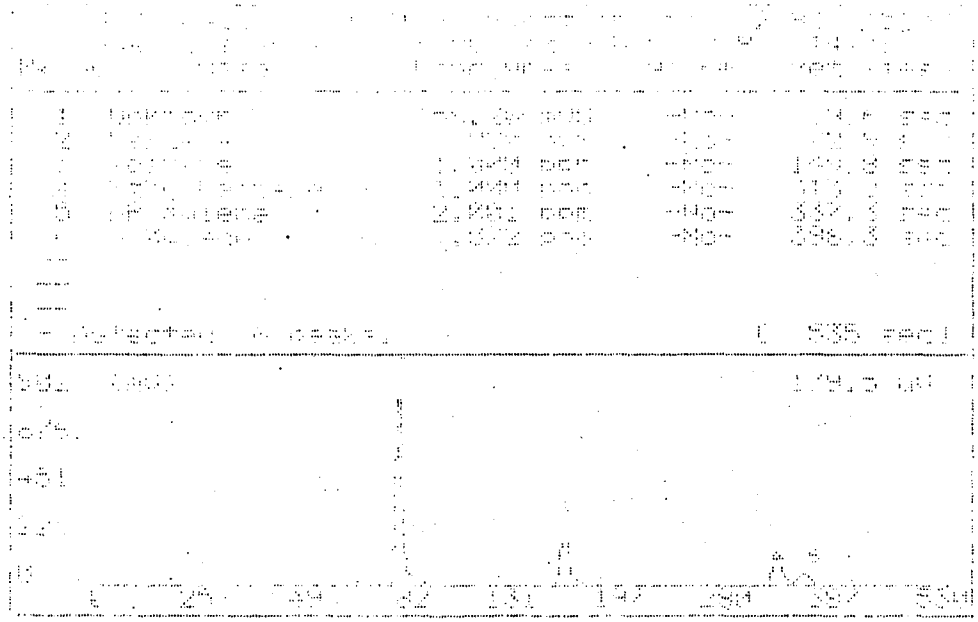
Slope Up	3.000	mV/Sec
Slope Down	3.000	mV/Sec
Min Area	1.000	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

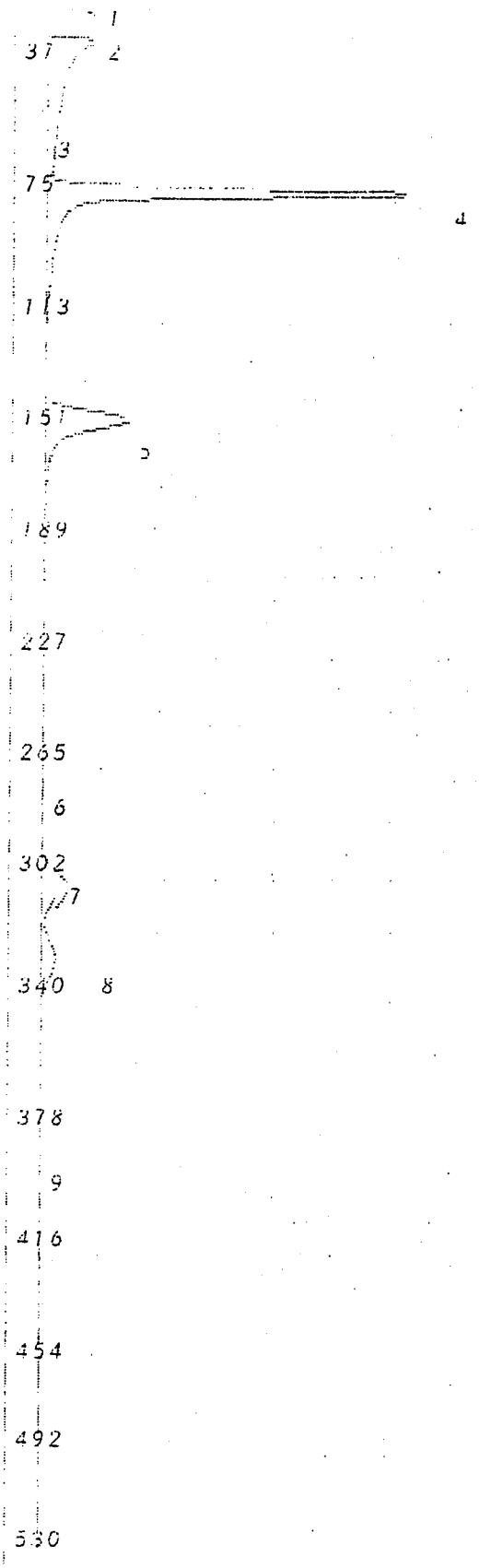
Pk	Compound Name	Area/Conc		R.T.
1	Unknown	56.26	mVS	19.6
2	Benzene	983.7	ppb	72.9
3	Toluene	829.2	ppb	149.8
4	Ethylbenzene	786.1	ppb	313.0
5	MP Xylene	1.329	ppm	337.3
6	O Xylene	702.5	ppb	396.3

Notes

Billy Mitchell Air National
Guard Station
Mark Escobar
1 ppm BTEX Standard



Analysis #1 10S+ GC Fraction Analysis Report



Time Printed: Nov 4,94 11:35
Sample Time: Nov 4,94 11:26

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	29	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

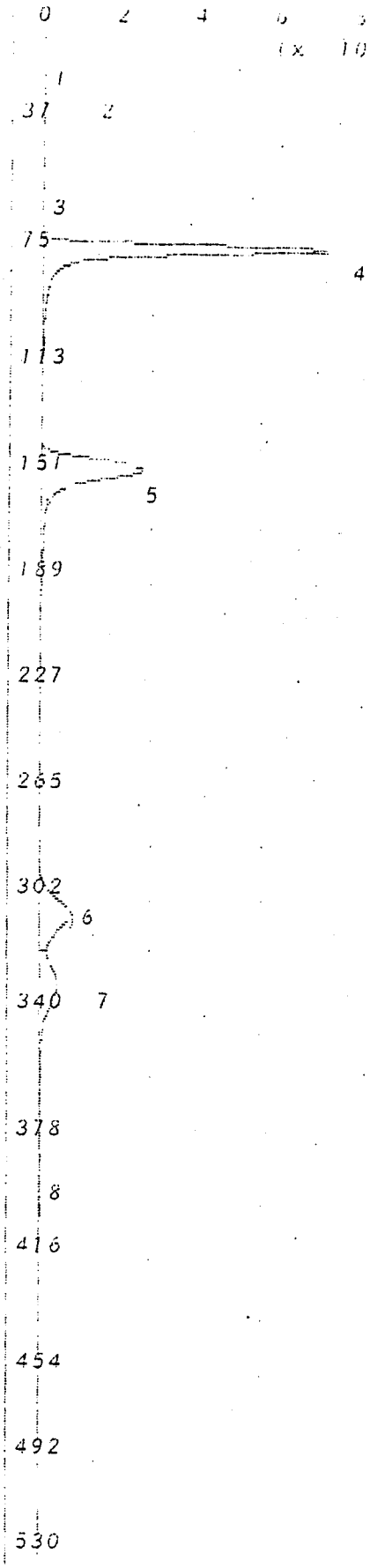
Pk	Compound Name	Area/Conc		R.T.
1	Unknown	49.69	mVS	21.4
2	Unknown	90.62	mVS	28.2
3	Unknown	0.574	mVS	54.0
4	Unknown	176.6	mVS	70.8
5	Unknown	85.49	mVS	145.2
6	Unknown	3.136	mVS	270.9
7	Unknown	59.79	mVS	302.9
8	Unknown	56.54	mVS	325.8
9	Unknown	28.09	mVS	383.3

Notes

Billy Mitchell Air National
Guard Base

Mark Escobar
100 ppb BTEX Standard

Analysis #2 TOS+ GC Function Analysis Report



Time Printed: Nov 4,94 11:50
Sample Time: Nov 4,94 11:41

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	30	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

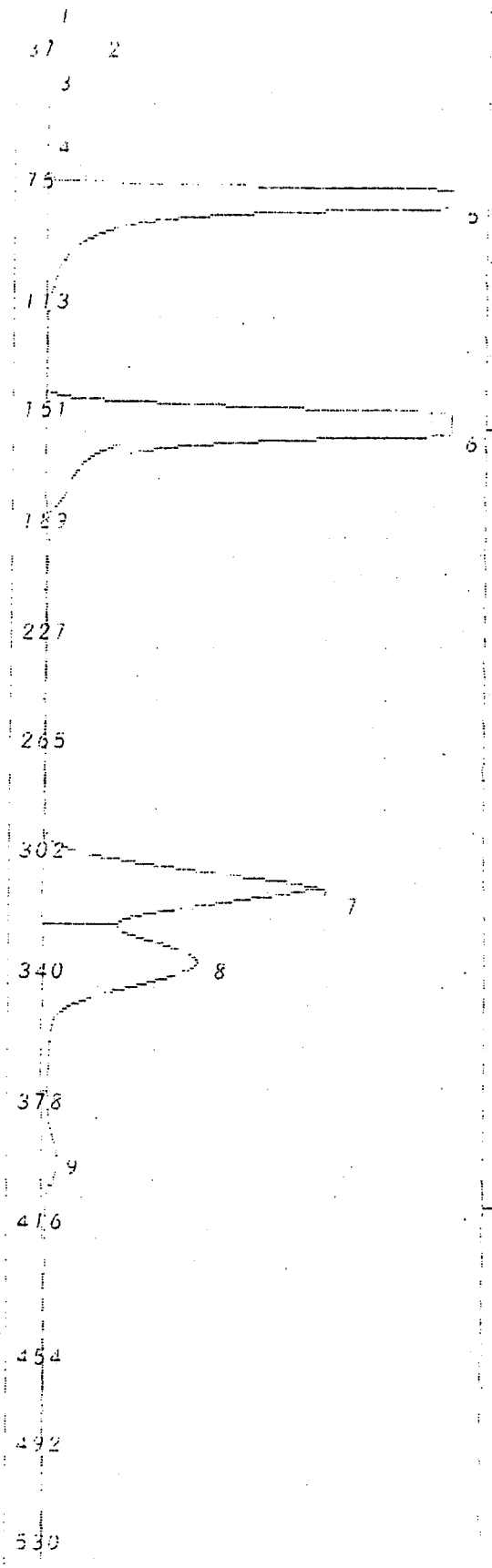
Pk	Compound Name	Area/Conc		R.T.
1	Unknown	59.72	mVS	21.5
2	Unknown	101.3	mVS	28.4
3	Unknown	0.577	mVS	53.9
4	Benzene	1.791	ppm	71.7
5	Toluene	2.837	ppm	146.4
6	Ethylbenzene	2.170	ppm	305.8
7	MP Xylene	3.000	ppm	329.0
8	O Xylene	945.2	ppb	387.0

Notes

Billy Mitchell Air National
Guard Base

Mark Escobar
1 ppm BTEX Standard

Analysis #3 TOS+ GC Function Analysis Report



Time Printed: Nov 4,94 12:03
Sample Time: Nov 4,94 11:54

Method

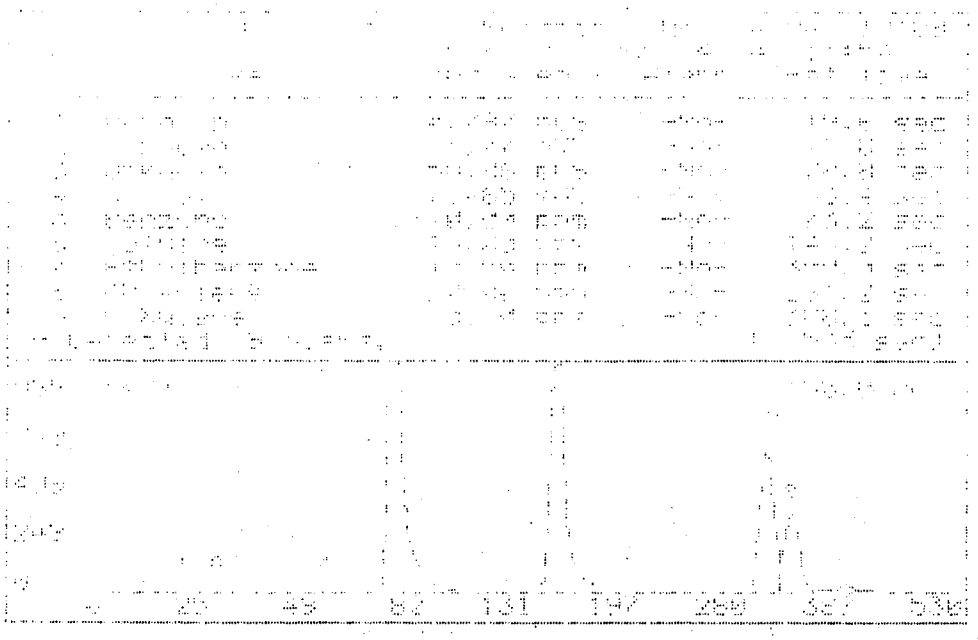
Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	mL/min
B/F Flow	12	mL/min
Aux Flow	0	mL/min
Oven Temp	40	C
Amb Temp	31	C
Max Gain	1000	
Analysis Time	530.0	sec

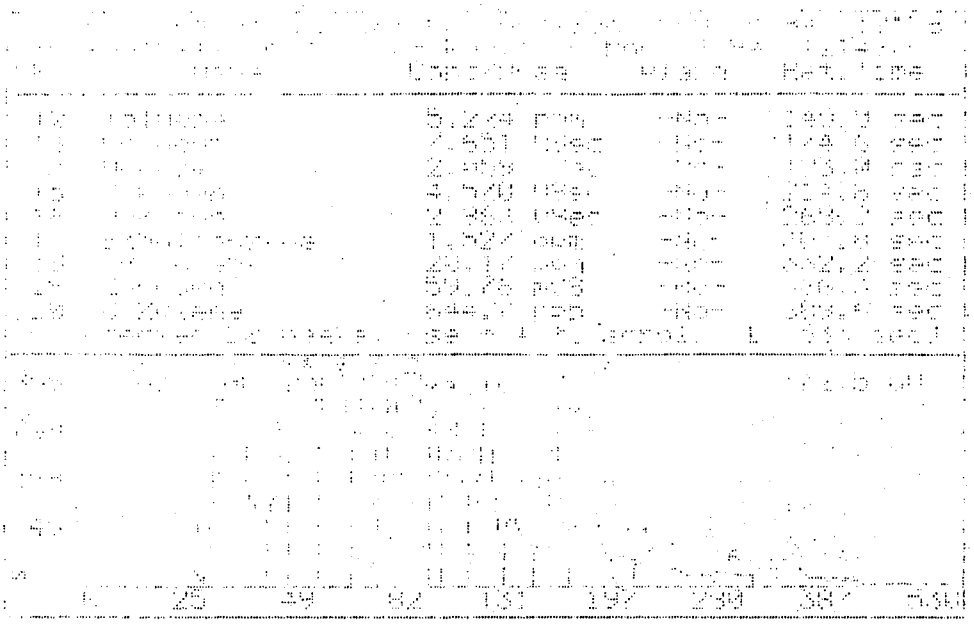
Peak Report

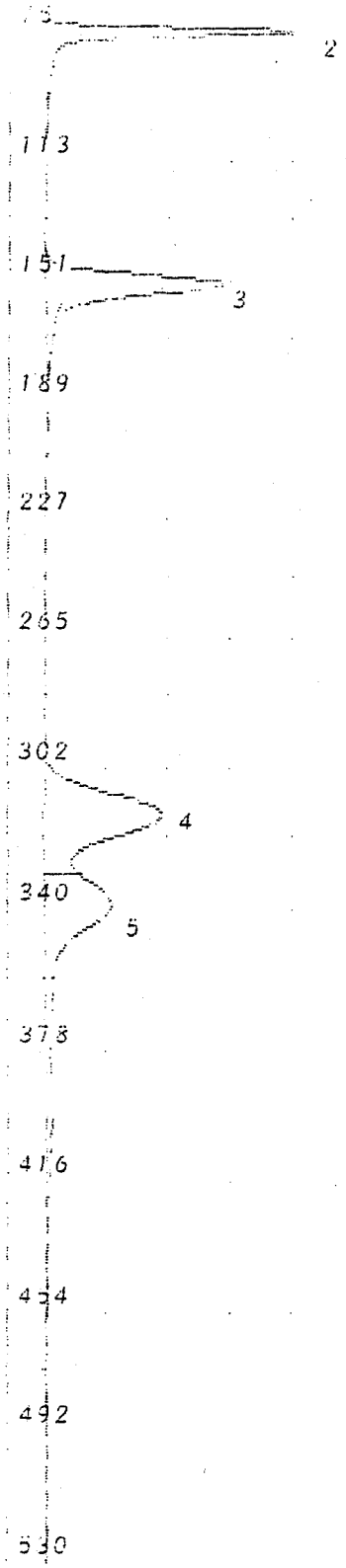
Pk	Compound Name	Area/Conc		R.T.
1	Unknown	4.787	mVS	19.6
2	Unknown	35.77	mVS	21.8
3	Unknown	58.86	mVS	28.8
4	Unknown	7.765	mVS	53.4
5	Benzene	5.940	ppm	73.2
6	Toluene	6.558	ppm	148.2
7	Ethylbenzene	7.786	ppm	308.0
8	MP Xylene	15.30	ppm	331.2
9	O Xylene	4.966	ppm	388.3

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
10 ppm BTEX Standard







Slope Up	2.000	mV/Sec
Slope Down	2.000	mV/Sec
Min Area	2.000	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

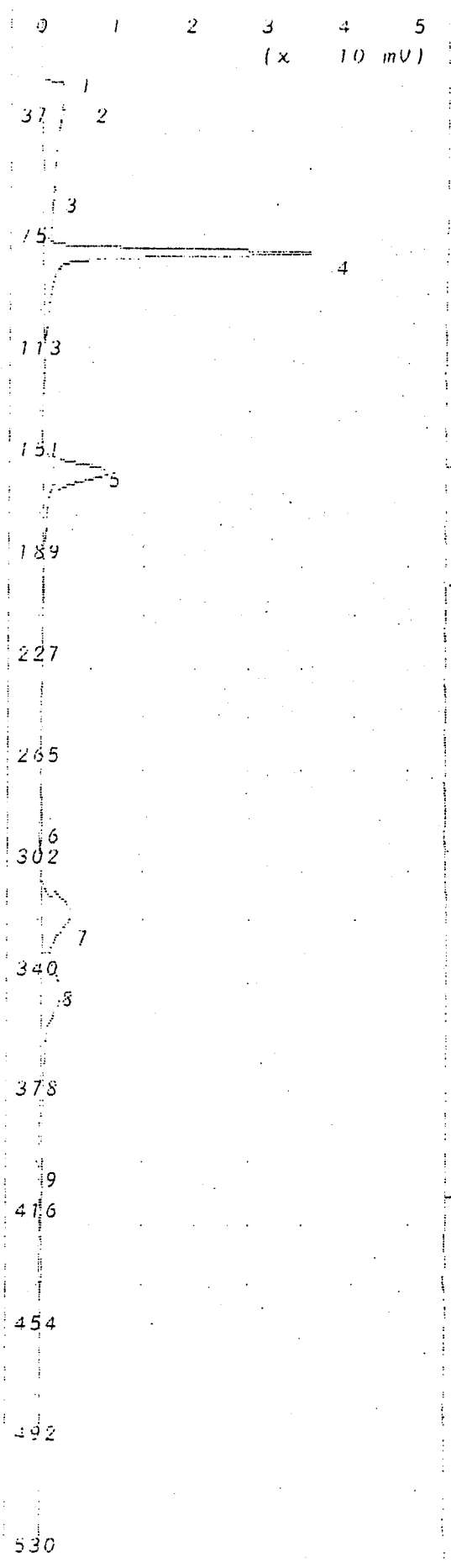
Peak Report

Pe	Compound Name	Area/Conc		R.T.
1	Unknown	33.28	mVS	20.4
2	Benzene	101.0	ppb	73.3
3	Toluene	184.7	ppb	150.0
4	Ethylbenzene	352.8	ppb	313.0
5	MP Xylene	892.1	ppb	337.0

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
100 ppb BTEX Standard

Analysis #30 10SA GC Function Analysis Report



Time Printed: Nov 3,94 13:48
Sample Time: Nov 3,94 13:39

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	20.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	32	C
Max Gain	1000	
Analysis Time	530.0	sec

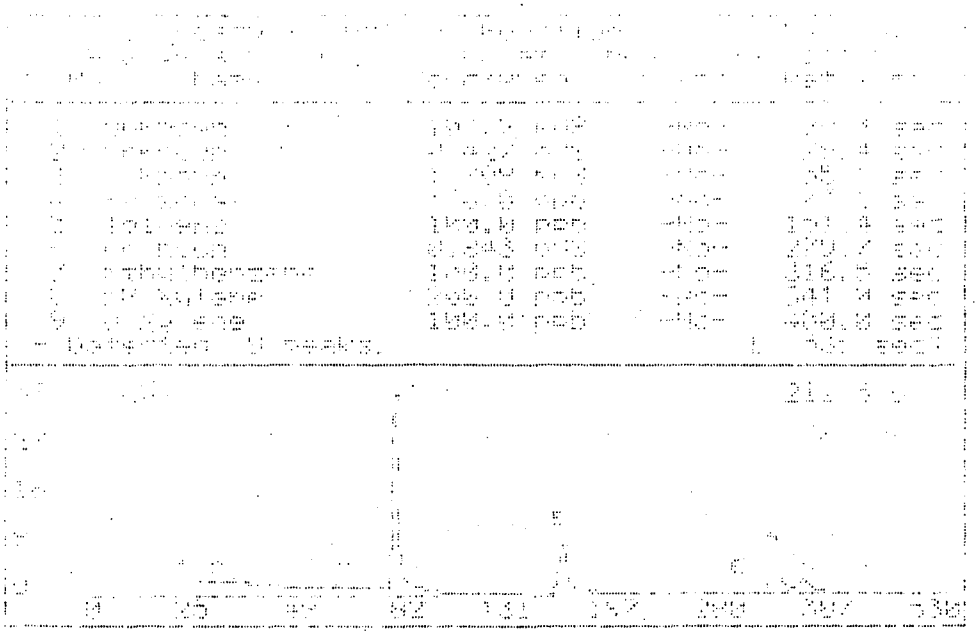
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	103.2	mVS	20.3
2	Unknown	0.422	mVS	29.4
3	Unknown	1.708	mVS	55.1
4	Benzene	99.38	ppb	73.6
5	Toluene	73.18	ppb	151.4
6	Unknown	0.843	mVS	279.7
7	Ethylbenzene	33.40	ppb	316.5
8	MP Xylene	71.74	ppb	341.0
9	O Xylene	2.895	ppb	400.0

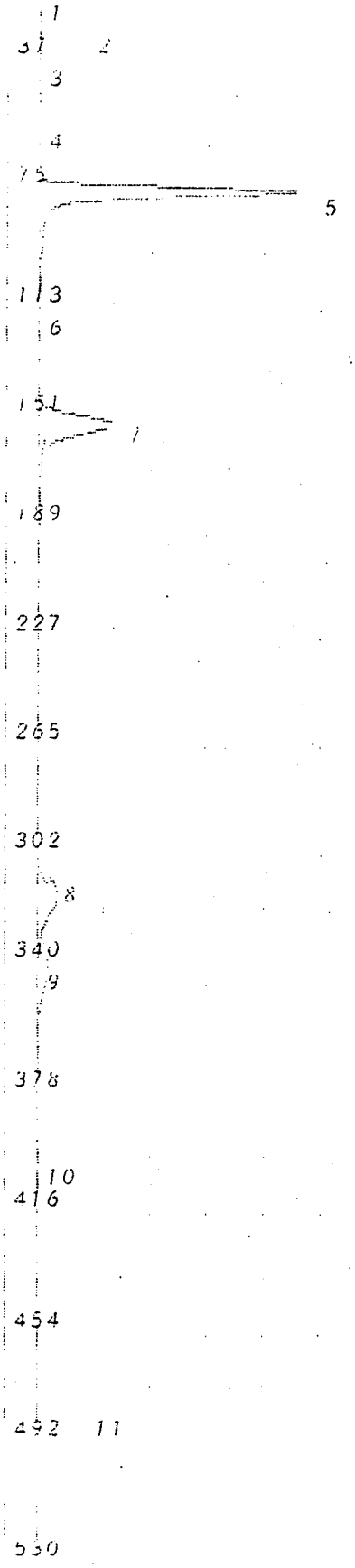
Notes

Billy Mitchell Air National
Guard Base
Mark Escobar

100 ppb BTEX Standard



Analysis #14 HP5+ GC Function Analysis Report



Time Printed: Nov 3,94 12:23
Sample Time: Nov 3,94 12:14

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	20.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

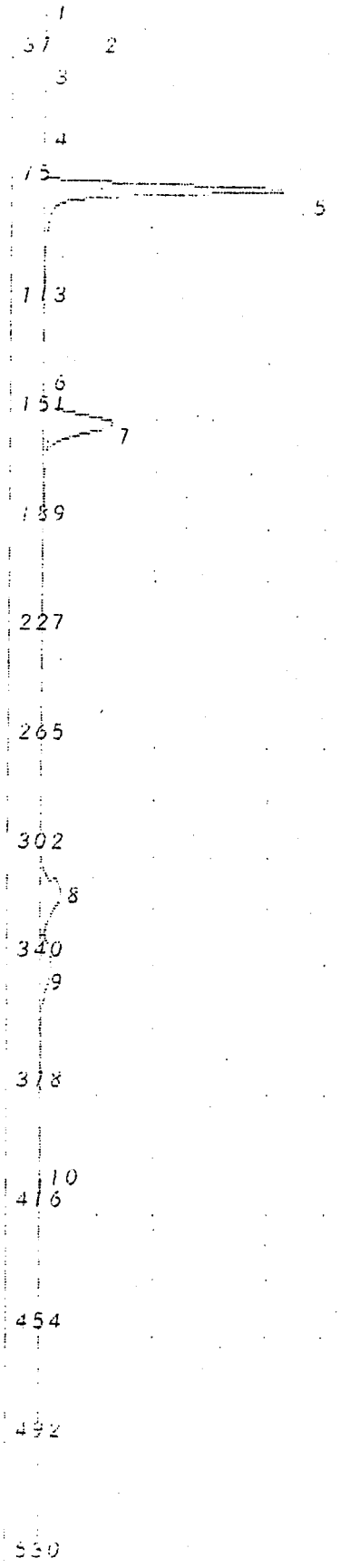
Pk	Compound Name	Area/Conc		R.T.
1	Unknown	9.559	mVS	20.0
2	Unknown	29.78	mVS	22.4
3	Unknown	61.26	mVS	29.5
4	Unknown	22.46	mVS	54.7
5	Benzene	2.007	ppm	73.7
6	Unknown	0.465	mVS	115.2
7	Toluene	1.568	ppm	150.2
8	Ethylbenzene	1.154	ppm	314.6
9	MP Xylene	838.2	ppb	339.0
10	O Xylene	320.6	ppb	398.0
11	Unknown	0.176	mVS	482.0

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar

1 ppm BTEX Standard

Analysis #21 10S+ GC Function Analysis Report



Time Printed: Nov 3,94 12:09
Sample Time: Nov 3,94 12:00

Method

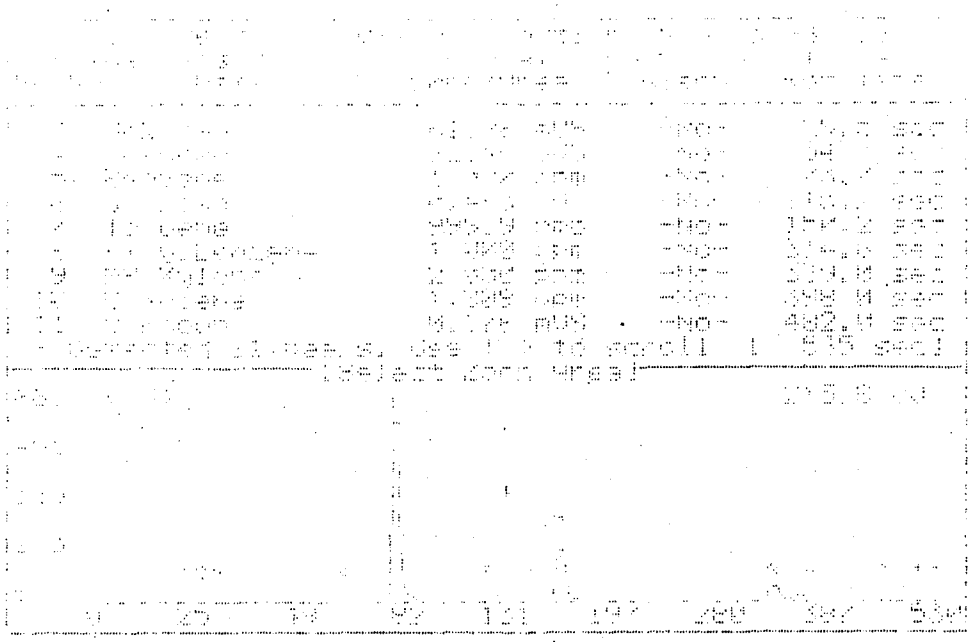
Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVsec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	20.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

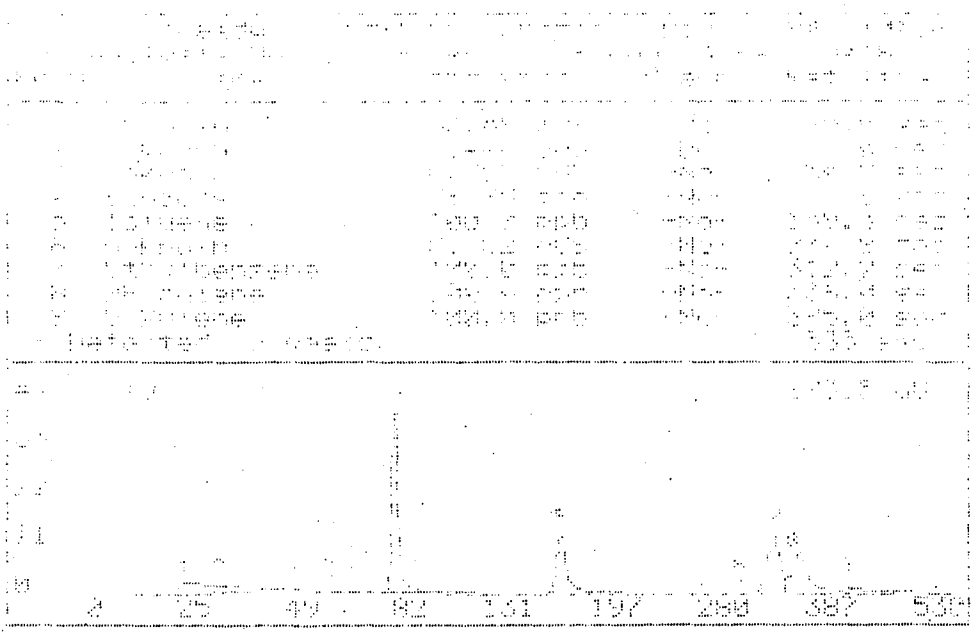
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	9.525	mVS	19.7
2	Unknown	29.69	mVS	21.9
3	Unknown	61.28	mVS	29.1
4	Unknown	21.68	mVS	54.4
5	Benzene	1.925	ppm	73.3
6	Unknown	0.215	mVS	133.4
7	Toluene	1.528	ppm	150.2
8	Ethylbenzene	1.149	ppm	314.1
9	MP Xylene	845.0	ppb	338.0
10	O Xylene	358.9	ppb	397.6

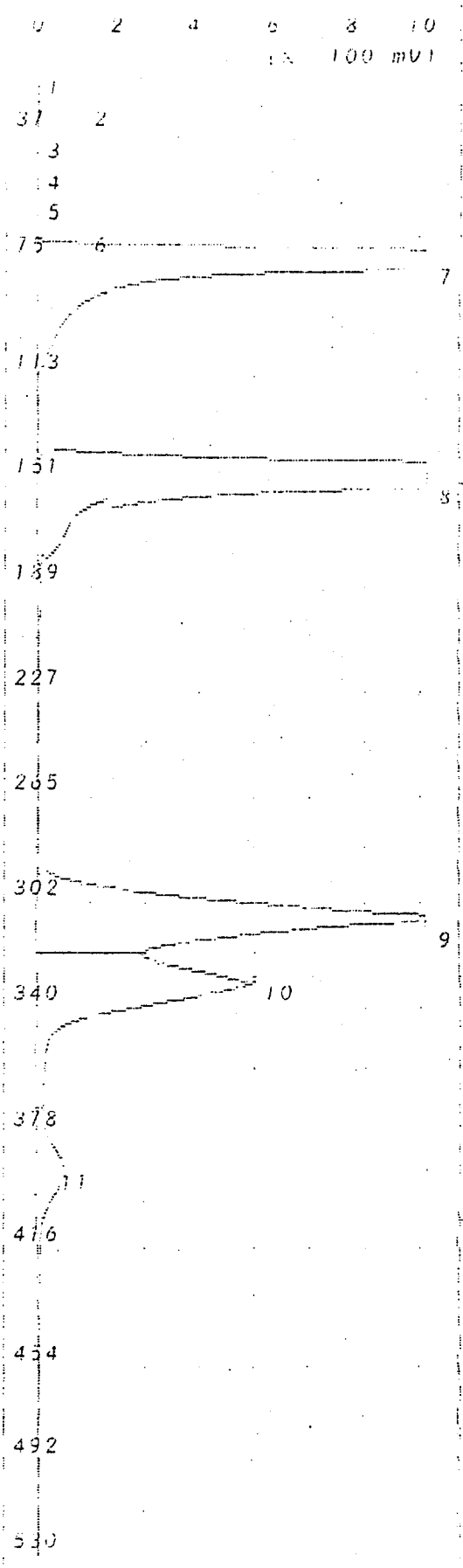
Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
1 ppm BTEX Standard





Analysis #3 Test 30 Function Analysis Report



Time Printed: Nov 3,94 08:20
Sample Time: Nov 3,94 08:11

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	20.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	30	C
Max Gain	1000	
Analysis Time	530.0	sec

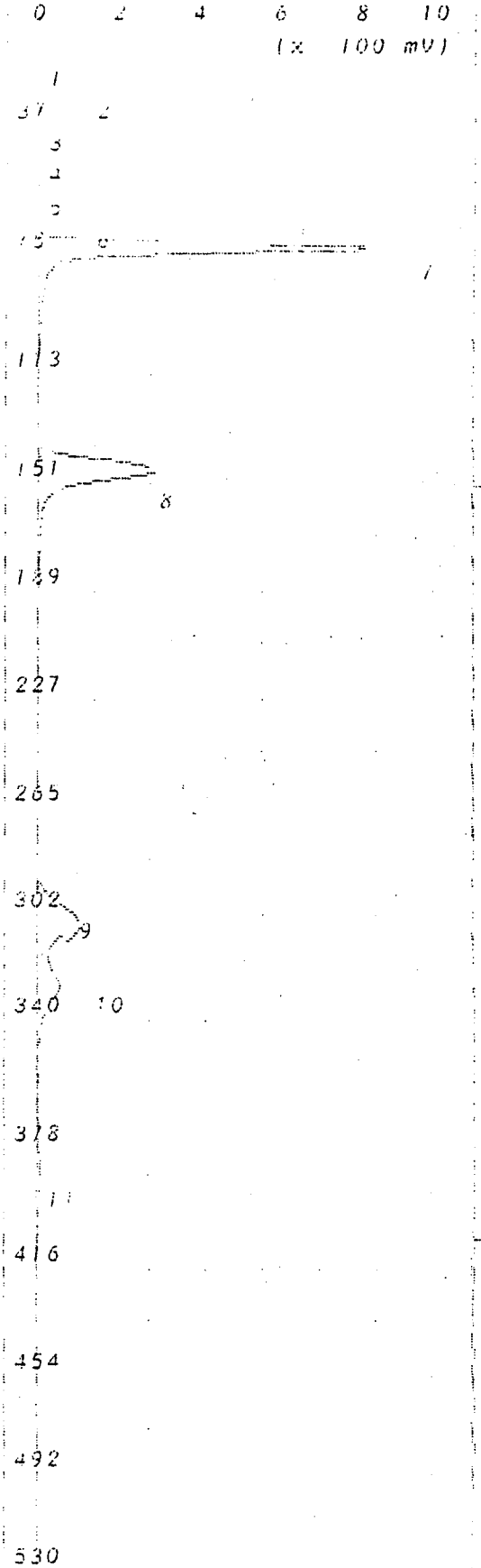
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	0.077	mVS	16.8
2	Unknown	4.006	mVS	19.4
3	Unknown	35.69	mVS	21.6
4	Unknown	55.09	mVS	28.3
5	Unknown	6.249	mVS	53.8
6	Unknown	1.360	mVS	61.8
7	Benzene	6.147	ppm	72.6
8	Toluene	7.458	ppm	147.0
9	Ethylbenzene	9.711	ppm	306.4
10	MP Xylene	17.71	ppm	329.6
11	O Xylene	5.333	ppm	387.3

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
10 ppm BTEX Standard

Analysis #2 10S+ GC Function Analysis Report



Time Printed: Nov 3,94 08:07
Sample Time: Nov 3,94 07:58

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mv
Analysis Delay	0.0	sec
Window Percent	20.0	%
Det Flow	12	mL/min
B/F Flow	12	mL/min
Aux Flow	0	mL/min
Oven Temp	40	C
Amb Temp	29	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

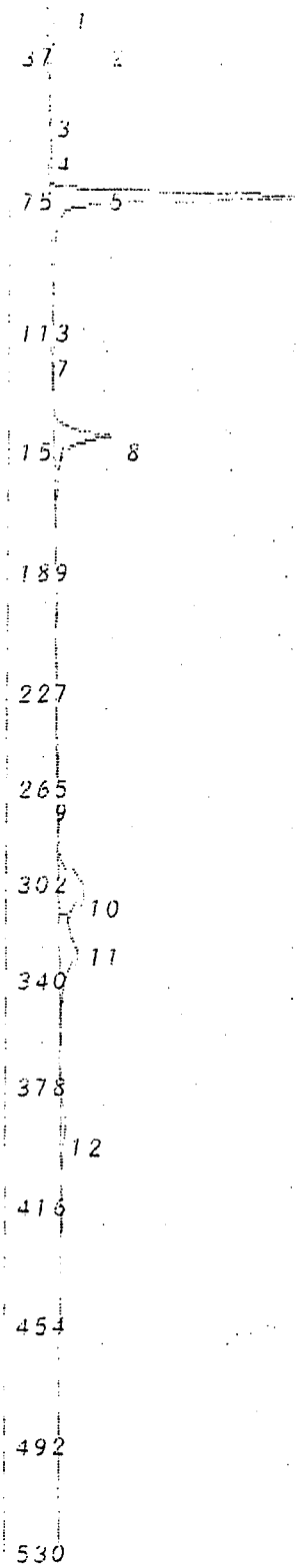
Pk	Compound Name	Area/Conc		R.T.
1	Unknown	4.201	mVS	19.2
2	Unknown	15.07	mVS	21.2
3	Unknown	14.59	mVS	27.8
4	Unknown	0.018	mVS	43.4
5	Unknown	0.008	mVS	52.4
6	Unknown	0.984	mVS	54.4
7	Benzene	1.760	ppm	70.8
8	Toluene	2.330	ppm	145.2
9	Ethylbenzene	1.723	ppm	303.2
10	MP Xylene	2.473	ppm	326.4
11	O Xylene	1.213	ppm	384.3

Notes

Billy Mitchell Air National
Guard Base

Mark Escobar
1 ppm BTEX Standard

Analysis #1 10S+ GC Function Analysis Report



Time Printed: Nov 3,94 07:50
Sample Time: Nov 3,94 07:41

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	20.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	27	C
Max Gain	1000	
Analysis Time	530.0	sec

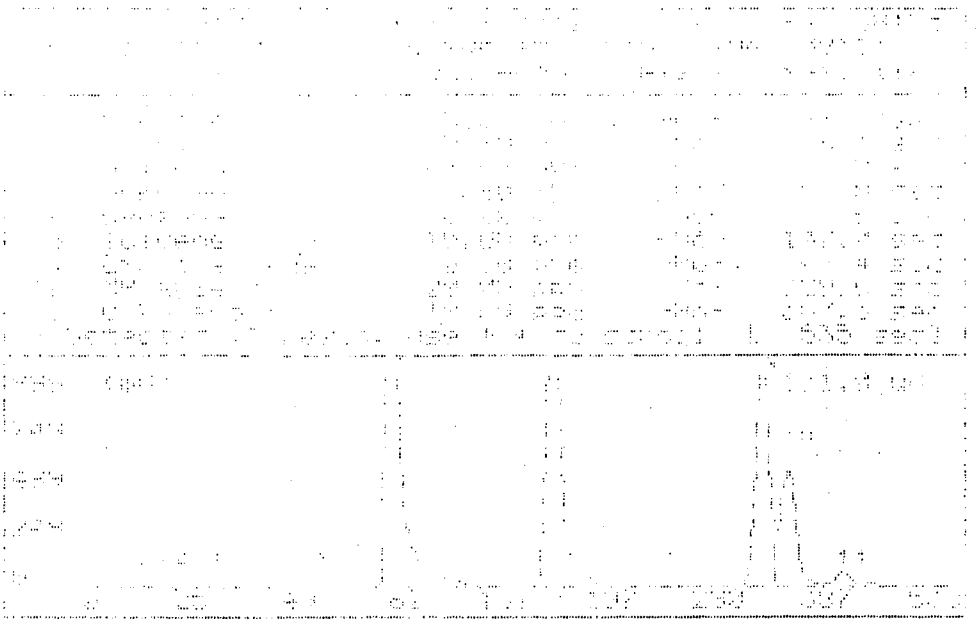
Peak Report

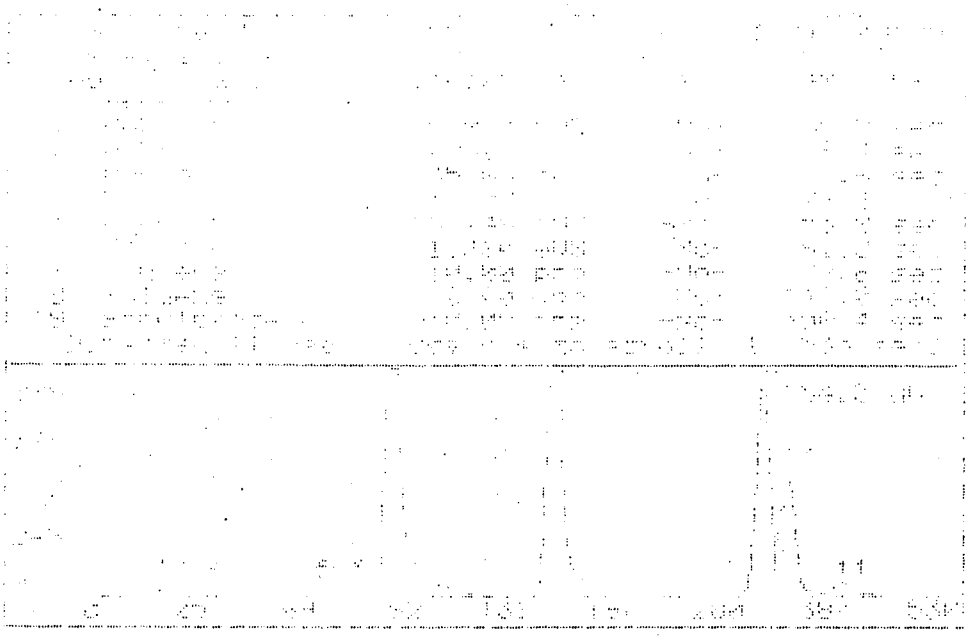
Pk	Compound Name	Area/Conc		R.T.
1	Unknown	11.30	mVS	18.7
2	Unknown	10.81	mVS	26.4
3	Unknown	3.857	mVS	43.3
4	Unknown	1.029	mVS	50.3
5	Unknown	2.537	mVS	59.3
6	Unknown	190.4	mVS	67.2
7	Unknown	0.387	mVS	108.4
8	Unknown	110.1	mVS	138.4
9	Unknown	0.798	mVS	267.7
10	Unknown	93.55	mVS	297.8
11	Unknown	87.83	mVS	321.8
12	Unknown	29.67	mVS	382.0

Notes

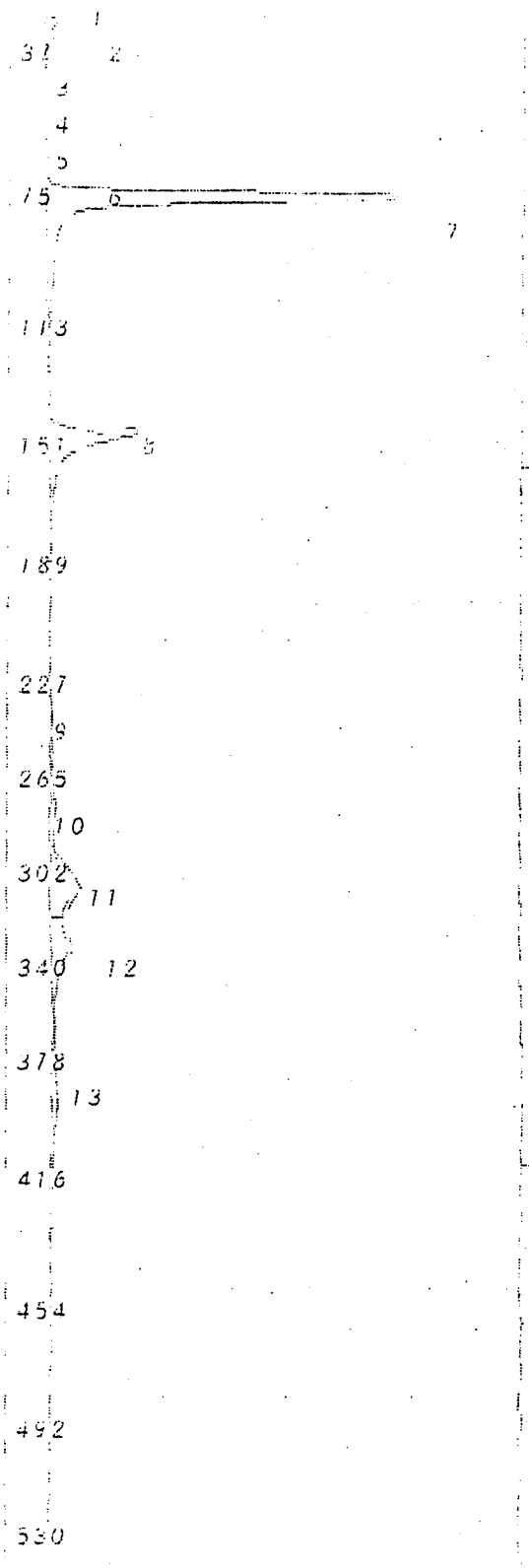
Billy Mitchell Air National
Guard Base

Mark Escobar
100 ppb BTEX Standard





Analysis #1 10S+ GC Function Analysis Report



Time Printed: Nov 7,94 13:56
Sample Time: Nov 7,94 13:47

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	27	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

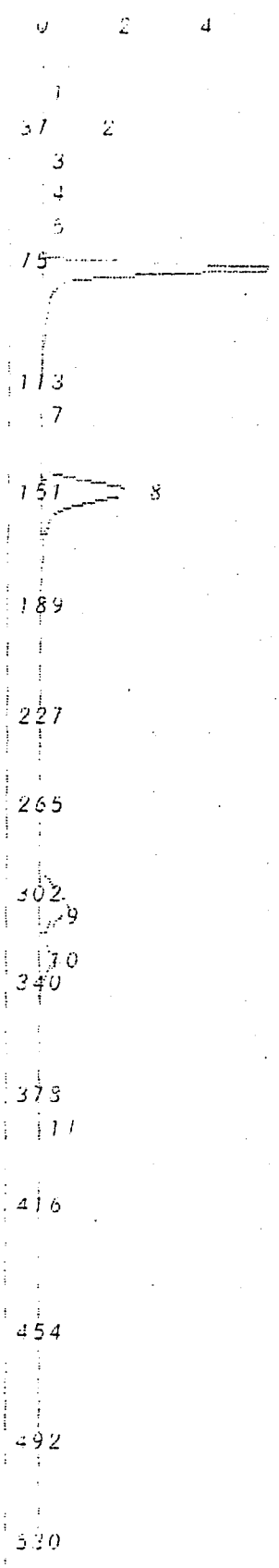
Pk	Compound Name	Area/Conc		R.T.
1	Unknown	5.016	mVS	19.0
2	Unknown	8.558	mVS	21.2
3	Unknown	7.292	mVS	27.6
4	Unknown	0.366	mVS	44.2
5	Unknown	0.080	mVS	50.2
6	Unknown	5.154	mVS	55.2
7	Unknown	168.6	mVS	68.5
8	Unknown	84.88	mVS	140.4
9	Unknown	3.354	mVS	232.6
10	Unknown	12.65	mVS	268.8
11	Unknown	59.00	mVS	300.8
12	Unknown	48.74	mVS	324.8
13	Unknown	18.44	mVS	377.0

Notes

Billy Mitchell Air National
Guard Base

Mark Escobar
100 ppb BTEX Standard

Analysis #2 10S+ GC Function Analysis Report



Time Printed: Nov 7,94 14:11
Sample Time: Nov 7,94 14:02

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	29	C
Max Gain	1000	
Analysis Time	530.0	sec

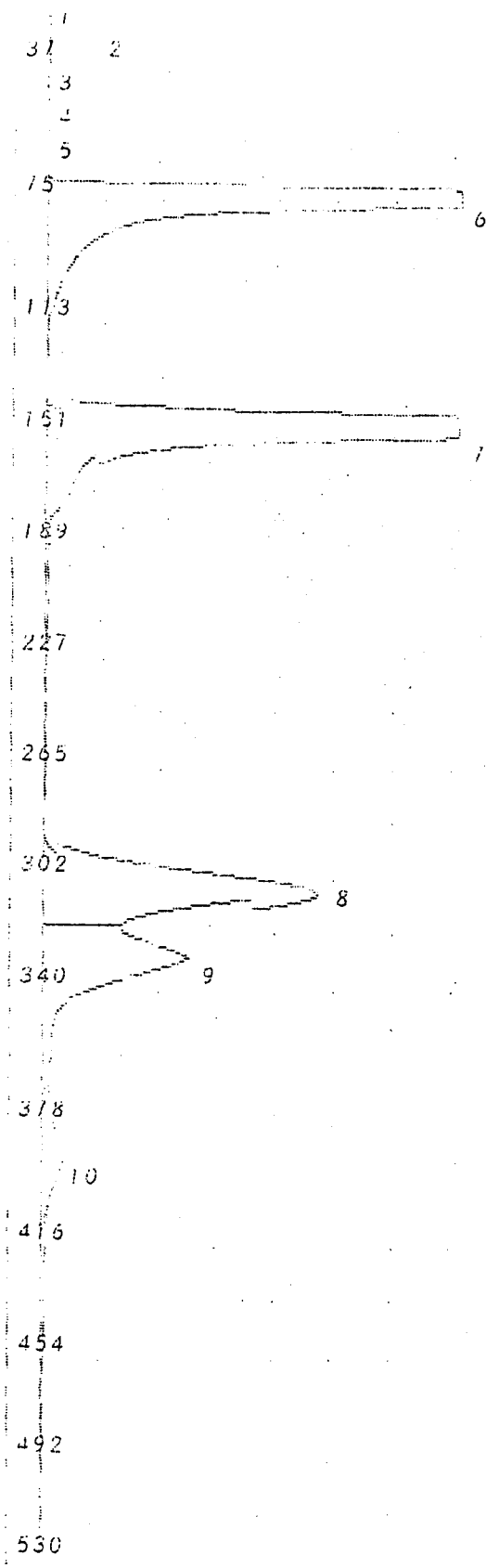
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	6.172	mVS	19.0
2	Unknown	23.23	mVS	21.4
3	Unknown	41.77	mVS	27.5
4	Unknown	0.127	mVS	45.8
5	Unknown	18.09	mVS	55.8
6	Benzene	1.540	ppm	70.8
7	Unknown	0.964	mVS	115.8
8	Toluene	2.443	ppm	142.9
9	Ethylbenzene	2.033	ppm	300.5
10	MP Xylene	3.203	ppm	323.7
11	O Xylene	1.695	ppm	380.6

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
~~100 ppb~~ BTEX Standard
1 ppm (ME)

Analysis #3 10S+ GC Function Analysis Report



Time Printed: Nov 7,94 14:25
Sample Time: Nov 7,94 14:16

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	mL/min
B/F Flow	12	mL/min
Aux Flow	0	mL/min
Oven Temp	40	C
Amb Temp	30	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

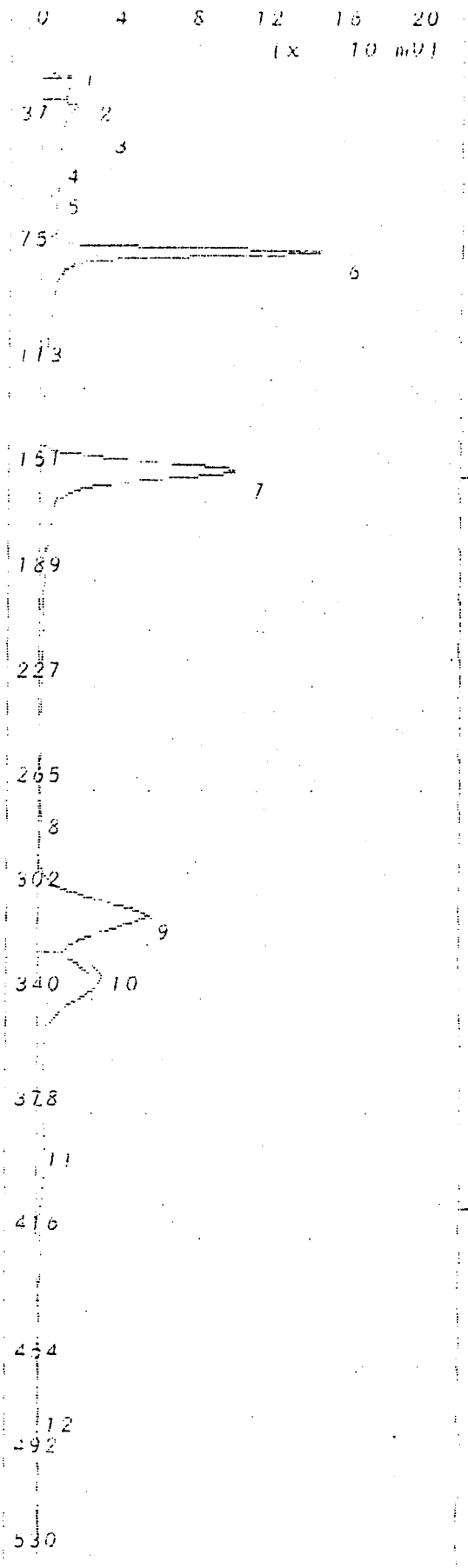
Pk	Compound Name	Area/Conc		R.T.
1	Unknown	5.875	mVS	19.1
2	Unknown	46.97	mVS	21.5
3	Unknown	82.70	mVS	28.2
4	Unknown	0.441	mVS	45.6
5	Unknown	19.58	mVS	54.6
6	Benzene	6.505	ppm	72.1
7	Toluene	7.296	ppm	145.8
8	Ethylbenzene	8.218	ppm	304.0
9	MP Xylene	16.21	ppm	327.2
10	O Xylene	5.016	ppm	384.3

Notes

Billy Mitchell Air National Guard Base

Mark Escobar
10 ppm BTEX Standard

Analysis #10 10S+ GC Function Analysis Report



Time Printed: Nov 7,94 15:49
Sample Time: Nov 7,94 15:40

Method

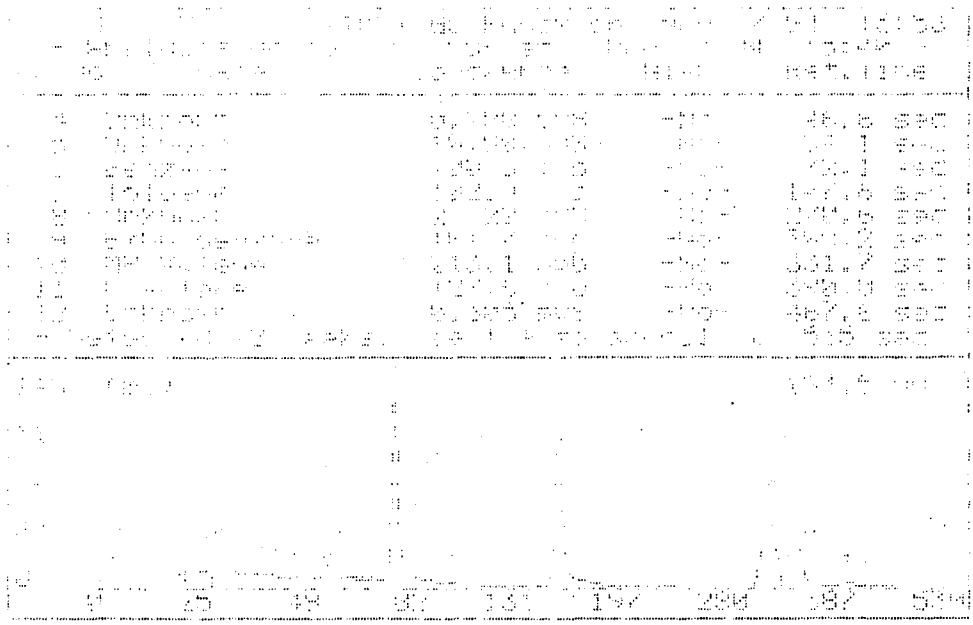
Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

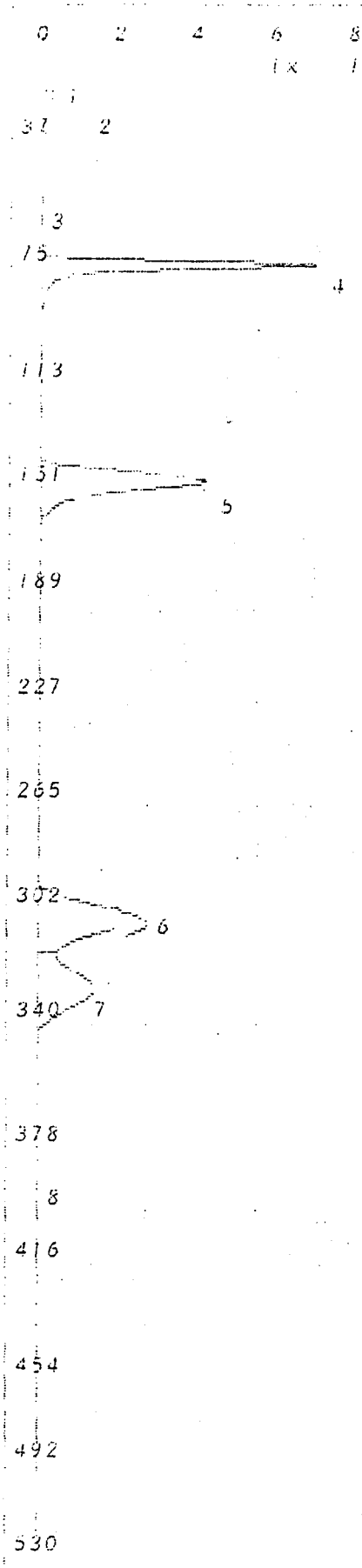
PK	Compound Name	Area/Conc		R.T.
1	Unknown	26.66	mVS	20.0
2	Unknown	91.40	mVS	21.5
3	Unknown	412.6	mVS	28.7
4	Unknown	0.288	mVS	46.6
5	Unknown	10.90	mVS	54.1
6	Benzene	322.5	ppb	72.1
7	Toluene	522.3	ppb	147.6
8	Unknown	2.722	mVS	270.6
9	Ethylbenzene	734.3	ppb	308.2
10	MP Xylene	1.609	ppm	331.7
11	O Xylene	618.9	ppb	390.0
12	Unknown	0.305	mVS	467.6

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
100 ppb BTEX Standard



Analysis #2 TOS+ GC Function Analysis Report



Time Printed: Nov 8.94 09:35
Sample Time: Nov 8.94 09:26

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	29	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

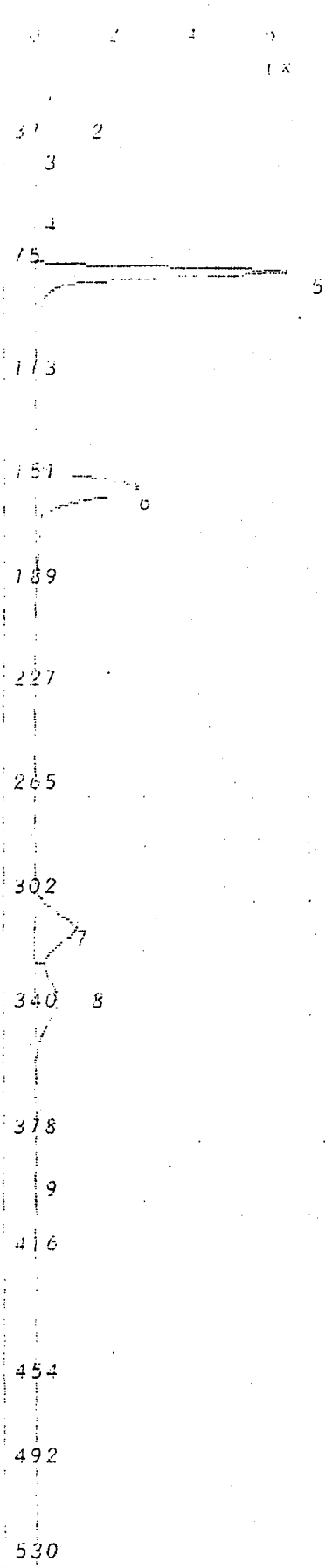
Pk	Compound Name	Area/Conc		R.T.
1	Unknown	86.76	mVS	19.6
2	Unknown	1.148	mVS	28.9
3	Unknown	1.985	mVS	54.2
4	Unknown	352.8	mVS	72.0
5	Unknown	529.0	mVS	146.4
6	Unknown	491.6	mVS	304.2
7	Unknown	379.4	mVS	327.4
8	Unknown	141.2	mVS	384.0

Notes

Billy Mitchell Air National
Guard Base

Mark Escobar
100 ppb BTEX Standard

Analysis #3 [illegible]



Time Printed: Nov 8,94 09:49
Sample Time: Nov 8,94 09:40

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Aux Temp	30	C
Max Gain	1000	
Analysis Time	530.0	sec

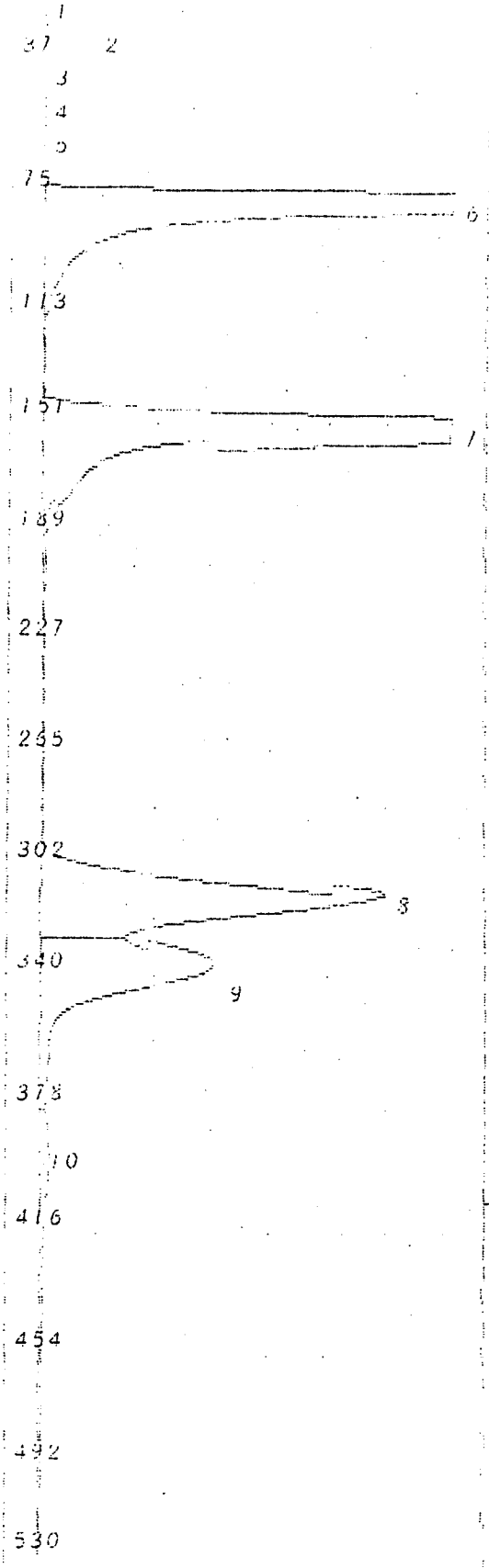
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	7.991	mVS	20.4
2	Unknown	29.22	mVS	22.2
3	Unknown	50.33	mVS	29.5
4	Unknown	16.99	mVS	54.7
5	Benzene	808.8	ppb	73.6
6	Toluene	475.2	ppb	149.4
7	EthylBenzene	347.1	ppb	310.1
8	MP Xylene	606.1	ppb	333.6
9	O Xylene	210.1	ppb	390.3

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
1 ppm BTEX Standard

Analysis #3 10S+ 6C Function Analysis Report



Time Printed: Nov 8,94 10:02
Sample Time: Nov 8,94 09:53

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	31	C
Max Gain	1000	
Analysis Time	530.0	sec

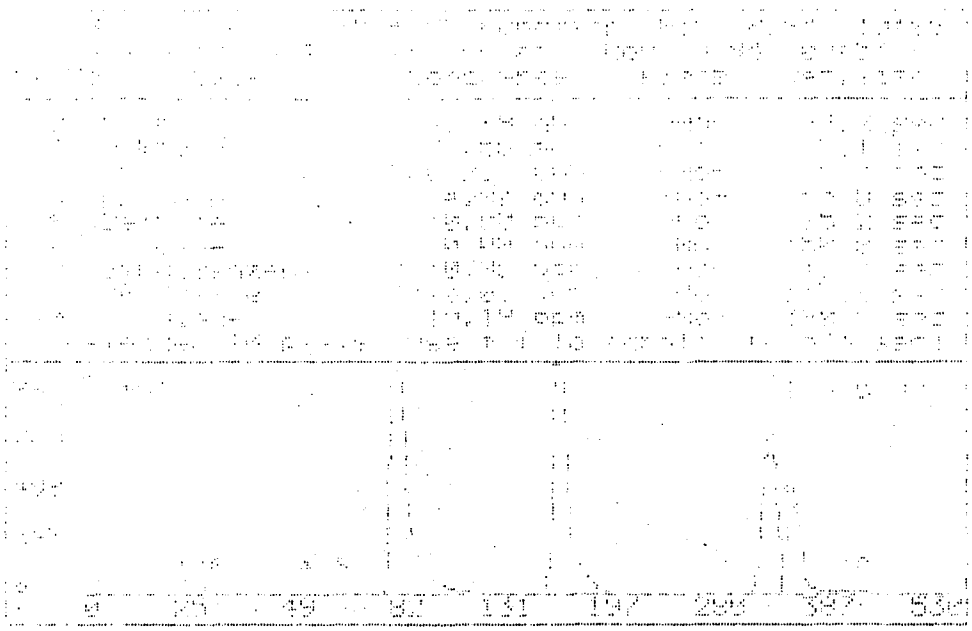
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	6.442	mVS	21.1
2	Unknown	46.65	mVS	23.2
3	Unknown	73.18	mVS	30.1
4	Unknown	0.207	mVS	48.7
5	Unknown	14.50	mVS	55.8
6	Benzene	7.255	ppm	75.2
7	Toluene	3.580	ppm	150.8
8	EthylBenzene	8.890	ppm	311.7
9	MP Xylene	16.77	ppm	334.6
10	O xylene	5.081	ppm	390.6

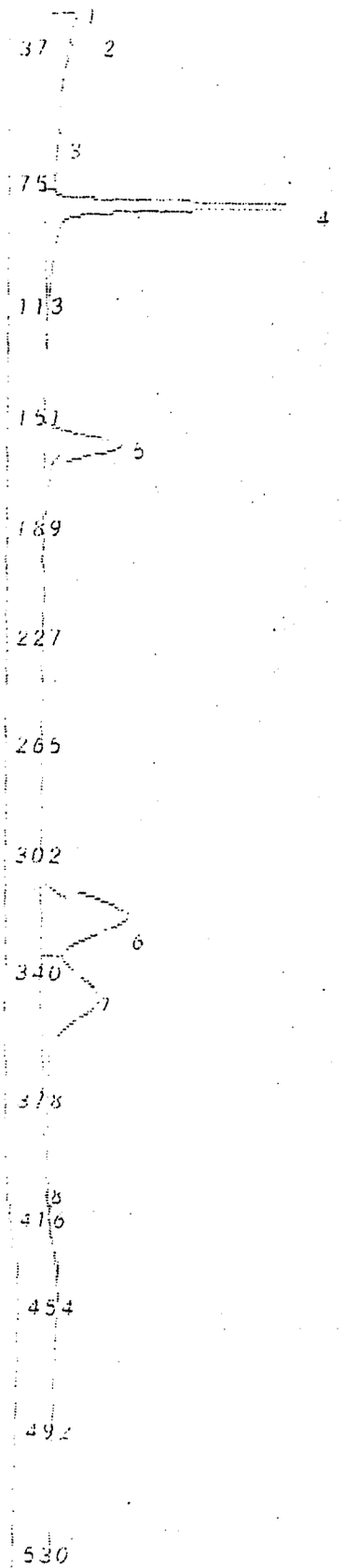
Notes

Billy Mitchell Air National
Guard Base
Mark Escobar

10 ppm BTEX Standard



Analysis #1 TOS+ GC Function Analysis Report



Time Printed: Nov 9,94 11:52
Sample Time: Nov 9,94 11:43

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

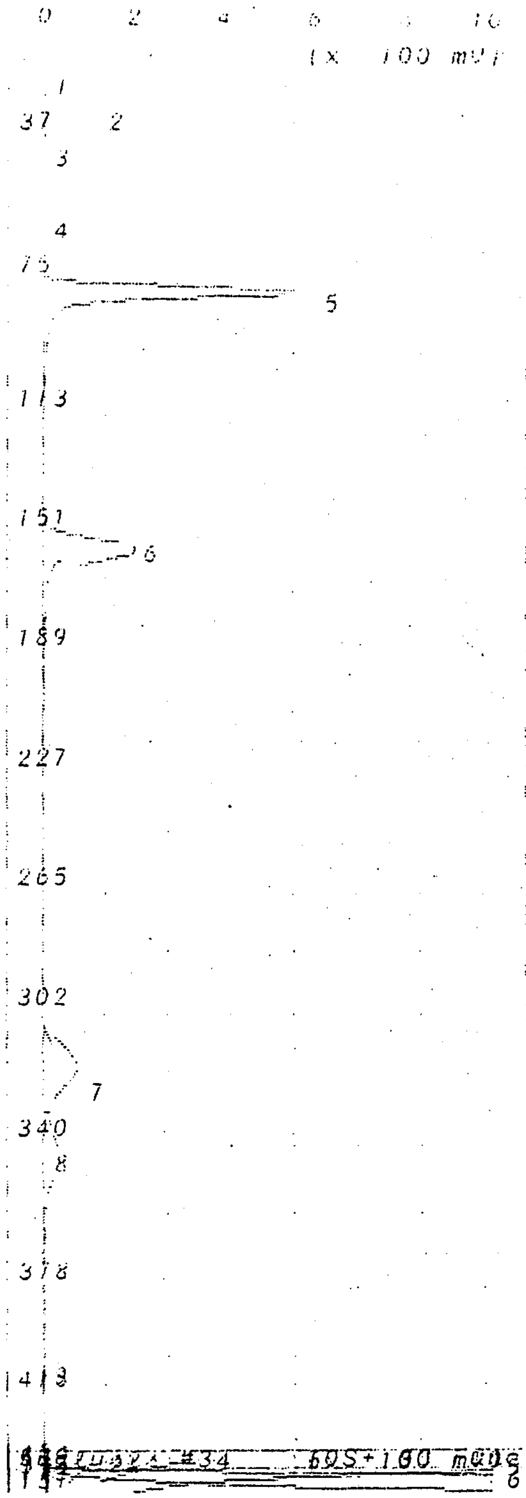
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	126.1 mVS	20.5
2	Unknown	1.036 mVS	30.3
3	Unknown	1.997 mVS	54.4
4	Unknown	124.9 mVS	74.8
5	Unknown	76.69 mVS	152.2
6	Unknown	151.9 mVS	316.5
7	Unknown	149.1 mVS	340.6
8	Unknown	0.772 mVS	397.3

Notes

Bilky Mitchell Air National Guard Base
Mark Escobar

100 ppb BTEX Standard



Time Printed: Nov [illegible] 12:07

Sample Time: Nov 9.94 11:58

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	4.501 mVS	20.8
2	Unknown	26.55 mVS	23.1
3	Unknown	63.01 mVS	30.3
4	Unknown	29.33 mVS	56.2
5	Benzene	1.968 ppm	75.4
6	Toluene	2.528 ppm	151.4
7	Ethylbenzene	720.3 ppb	317.3
8	MP Xylene	1.093 ppm	341.0
9	O Xylene	458.7 ppb	397.0

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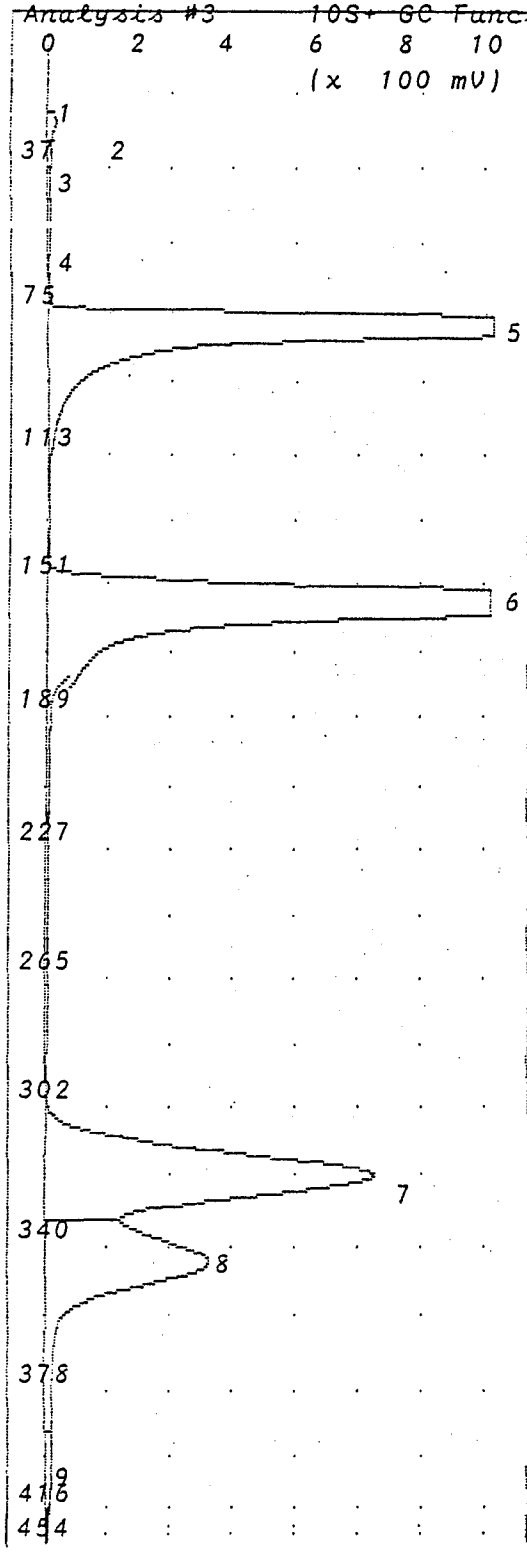
1ppm BTEX STD

Analysis #3 10S+ GC Function Analysis Report



Time Printed: Nov 9,94 12:23
Sample Time: Nov 9,94 12:10

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	28.29	mVS	21.1
2	Unknown	129.2	mVS	23.0
3	Unknown	282.6	mVS	30.4
4	Unknown	1.501	mVS	54.0
5	Benzene	7.454	ppm	76.5
6	Toluene	9.266	ppm	154.2
7	Ethylbenzene	10.40	ppm	318.9
8	MP Xylene	17.15	ppm	342.3
9	O Xylene	204.0	PPM1	398.3

PPM1 = Alarm 1 PPM2 = Alarm2

Notes

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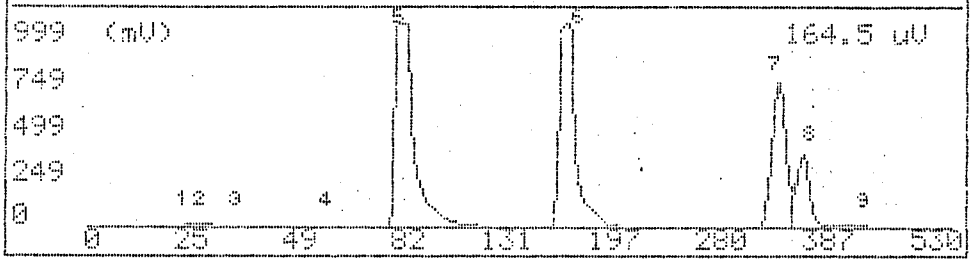
~~Benzene Standard~~

10 ppm BTEX STD

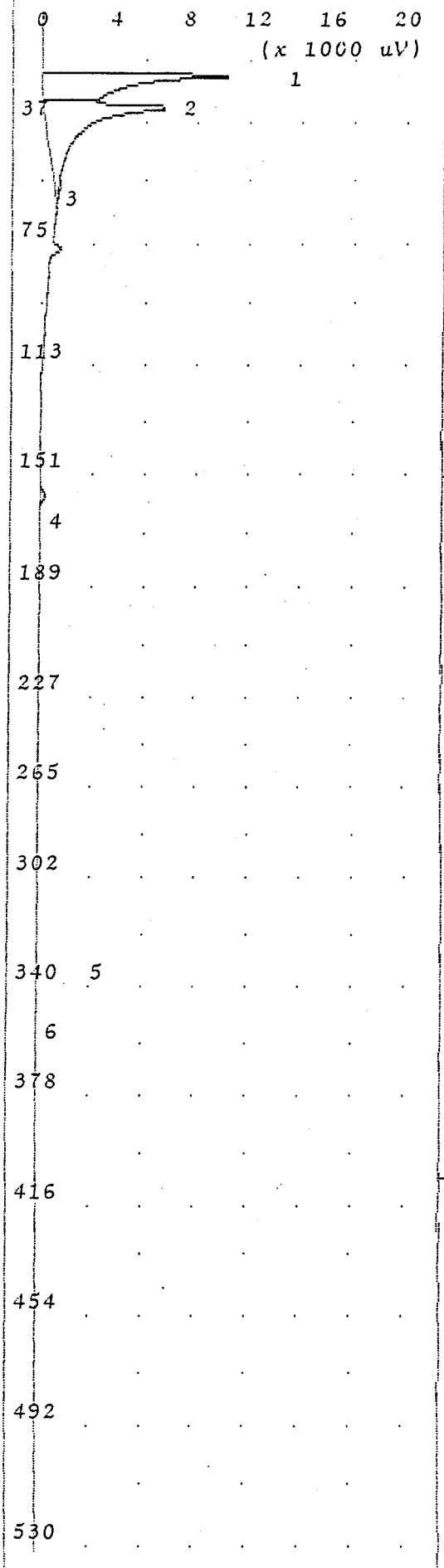
Alarm 1 10S+ GC Function Nov 9,94 12:27
-- Analysis No 3 -- Run at - Nov 9.94 12:10 -

Pk No	Name	Conc/Area		Alarm	Ret.Time	
1	Unknown	28.30	mVS	-No-	21.1	sec
2	Unknown	129.2	mVS	-No-	221.0	sec
3	Unknown	283.2	mVS	-No-	330.4	sec
4	Unknown	1.591	mVS	-No-	444.9	sec
5	Benzene	10.00	ppm	-No-	476.5	sec
6	Toluene	10.00	ppm	-No-	1514.2	sec
7	Ethylbenzene	10.00	ppm	-No-	3110.9	sec
8	MP Xylene	20.01	ppm	-No-	3443.2	sec
9	O Xylene	10.16	ppm	-No-	3808.3	sec

- Detected 9 peaks. [535 sec]



Analysis #13 10S+ GC Function Analysis Report



Time Printed: Oct 20,94 15:17
Sample Time: Oct 20,94 15:08

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	15	ml/min
B/F Flow	15	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	35	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	51.27	mVS	20.3
2	Unknown	53.07	mVS	30.5
3	Unknown	0.363	mVS	54.3
4	Toluene	8.783	ppb	155.4
5	Ethylbenzene	22.19	ppb	327.7
6	MP Xylene	50.10	ppb	353.0

Notes

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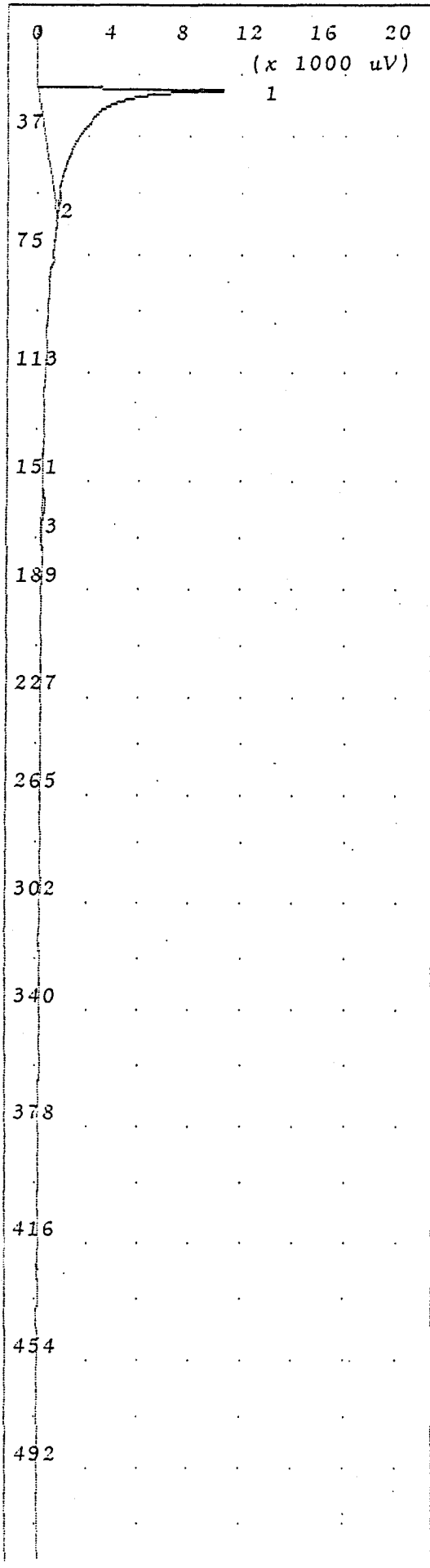
Analysis #14 10S+ GC Function Analysis Report



Time Printed: Oct 20,94 16:20
Sample Time: Oct 20,94 16:11

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	15	ml/min
B/F Flow	15	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	84.69	mVS	20.5
2	Unknown	0.297	mVS	54.4
3	Toluene	2.930	ppb	156.6

Notes

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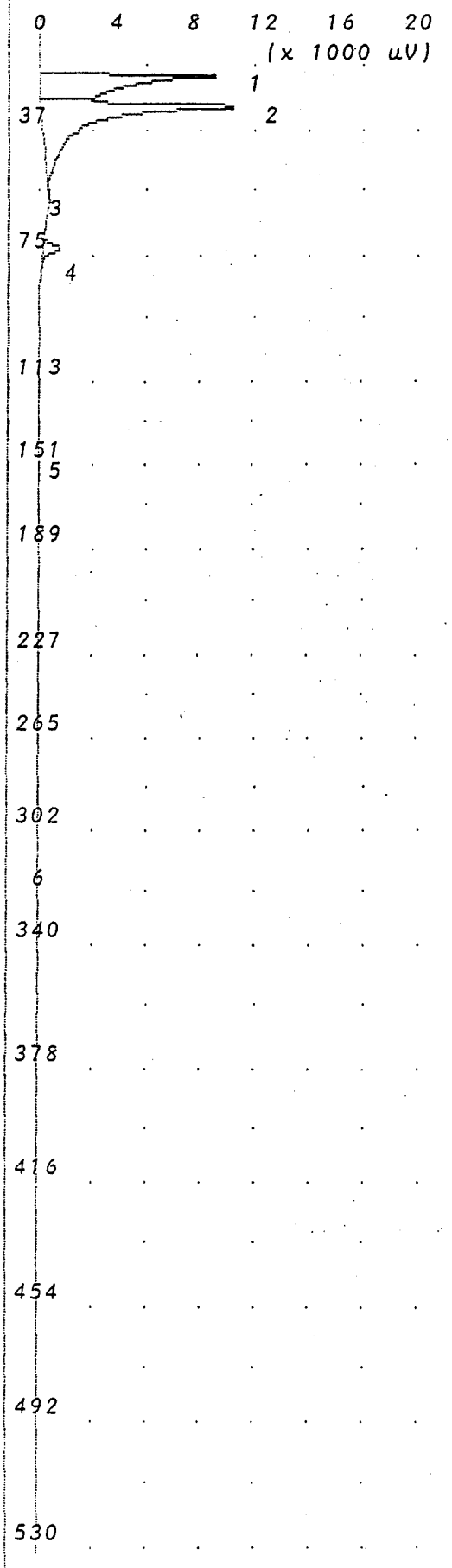
Analysis #4 10S+ GC Function Analysis Report



Time Printed: Oct 21,94 09:33
Sample Time: Oct 21,94 09:24

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	43.52	mVS	19.0
2	Unknown	57.47	mVS	28.2
3	Unknown	0.332	mVS	54.4
4	Benzene	5.138	ppb	70.9
5	Toluene	6.747	ppb	148.2
6	Ethylbenzene	2.406	ppb	312.0

Notes

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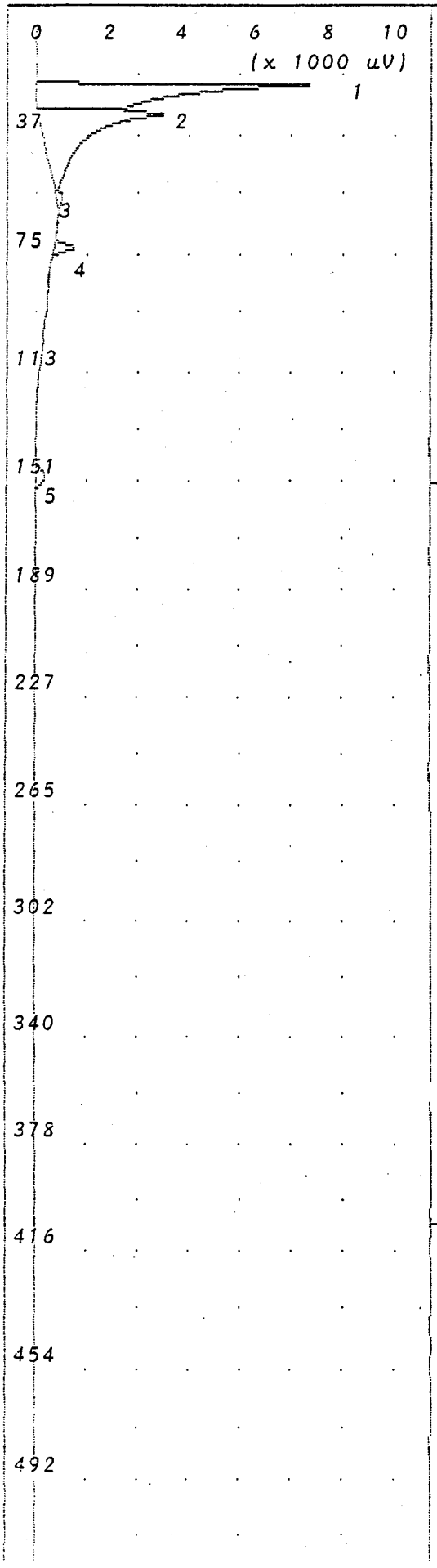
Analysis #5 10S+ GC Function Analysis Report



Time Printed: Oct 21,94 09:44
Sample Time: Oct 21,94 09:35

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	37.20	mVS	19.1
2	Unknown	30.43	mVS	28.5
3	Unknown	0.855	mVS	54.4
4	Benzene	2.749	ppb	70.8
5	Toluene	4.704	ppb	147.6

Notes

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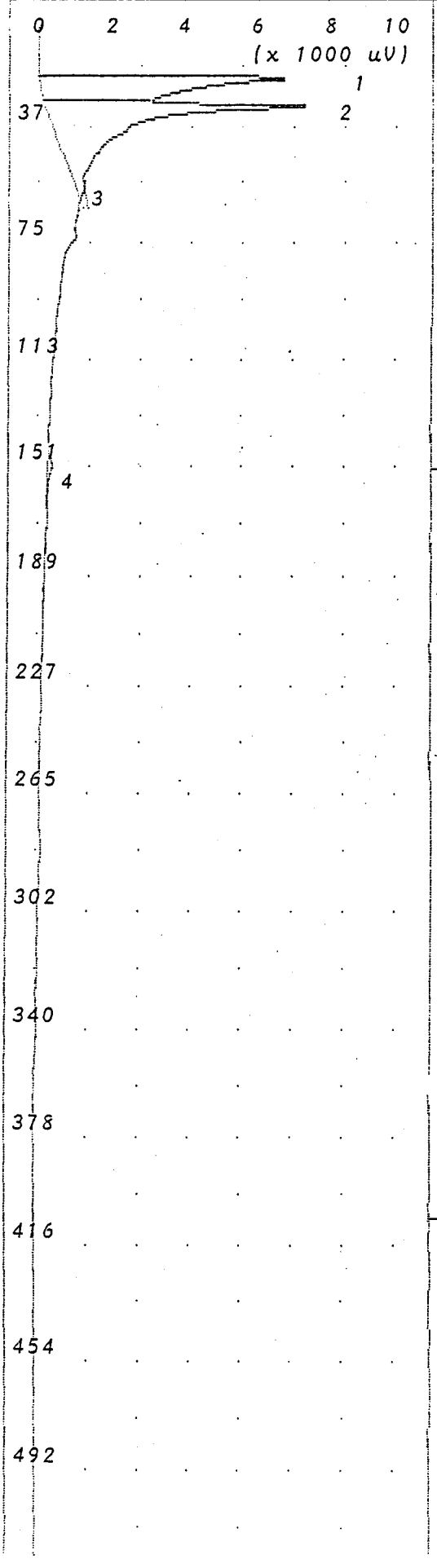
Analysis #10 10S+ GC Function Analysis Report



Time Printed: Oct 21,94 11:47
Sample Time: Oct 21,94 11:38

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	32	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	39.13 mVS	19.0
2	Unknown	52.14 mVS	28.7
3	Unknown	0.140 mVS	54.4
4	Unknown	0.821 mVS	149.6

Notes

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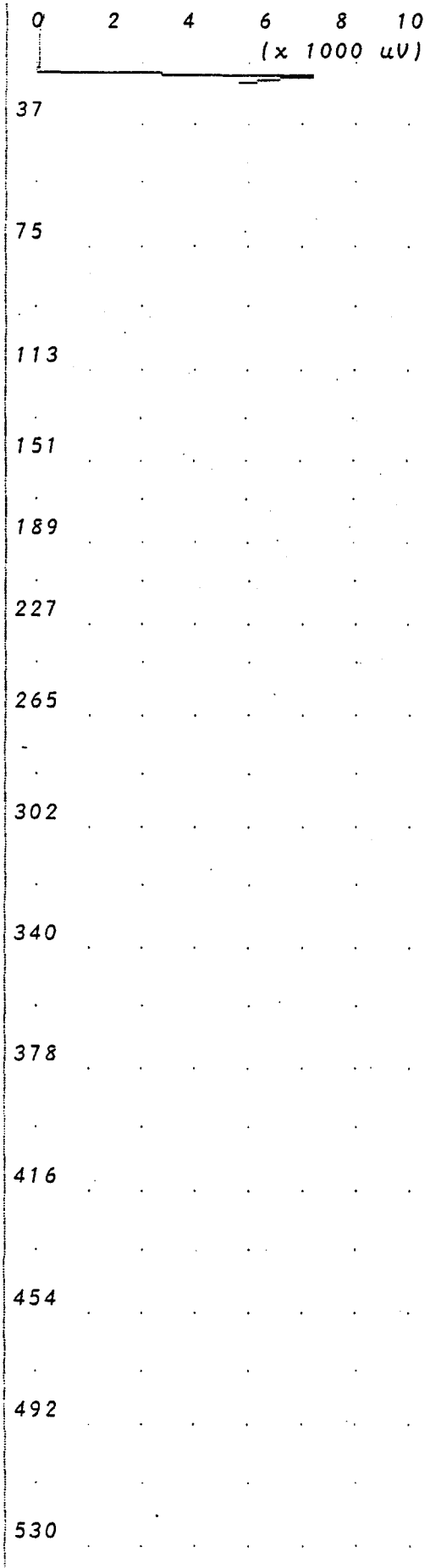
Analysis #18 10S+ GC Function Analysis Report



Time Printed: Oct 21,94 16:10
Sample Time: Oct 21,94 16:09

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	30	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.

Notes

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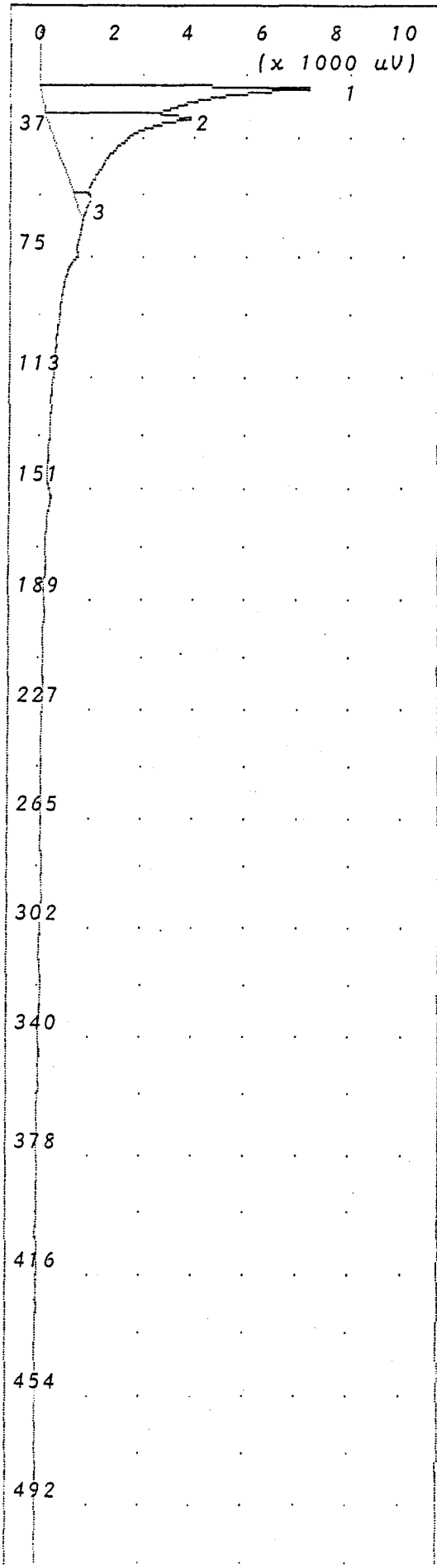
Analysis #19 10S+ GC Function Analysis Report



Time Printed: Oct 21,94 16:21
Sample Time: Oct 21,94 16:12

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	30	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	43.76 mVS	19.6
2	Unknown	42.23 mVS	29.2
3	Unknown	2.167 mVS	54.0

Notes

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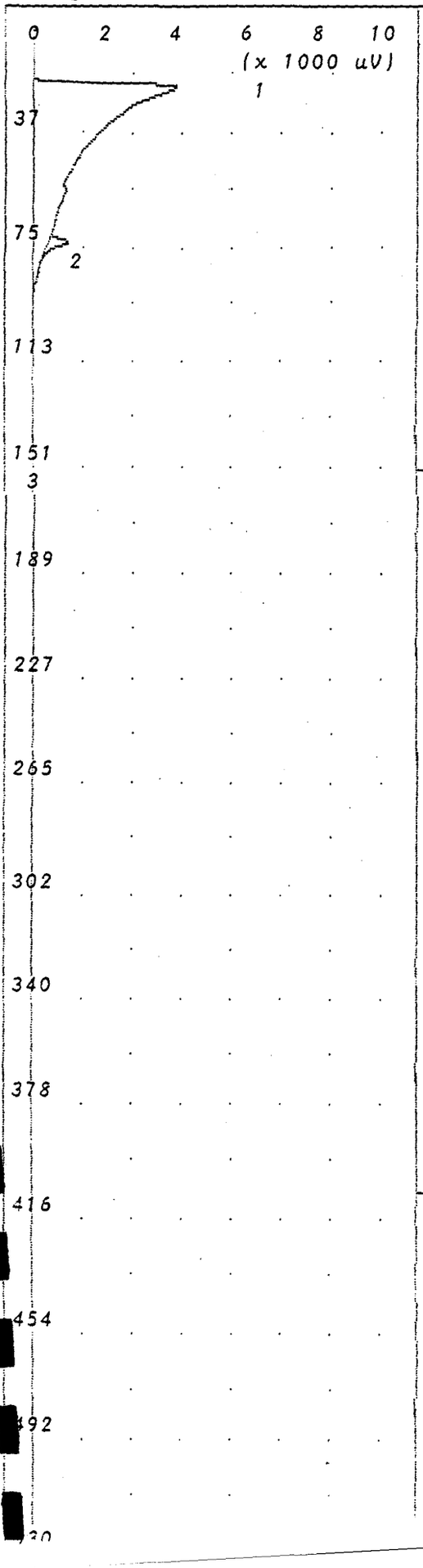
Analysis #4 10S+ GC Function Analysis Report



Time Printed: Oct 24,94 16:16
Sample Time: Oct 24,94 16:07

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	32	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	124.8	mVS	19.0
2	Benzene	0.492	ppb	71.7
3	Toluene	0.704	ppb	150.4

Notes

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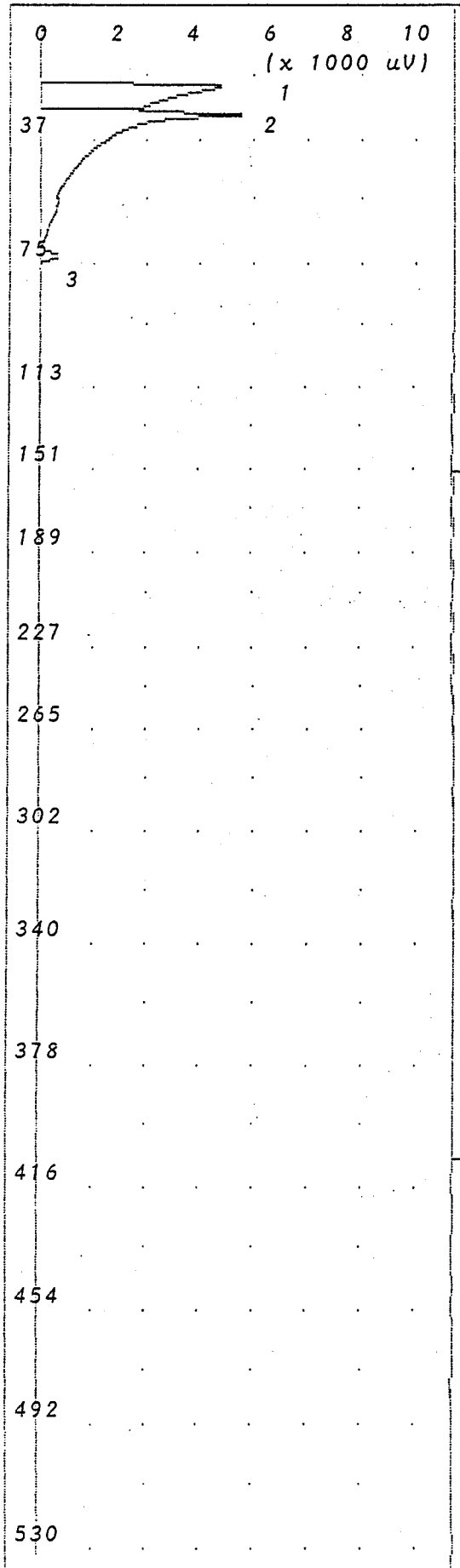
Analysis #4 10S+ GC Function Analysis Report



Time Printed: Oct 25,94 11:23
Sample Time: Oct 25,94 11:15

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	34.94	mVS	18.5
2	Unknown	80.76	mVS	27.8
3	Benzene	9.477	ppb	70.9

Notes

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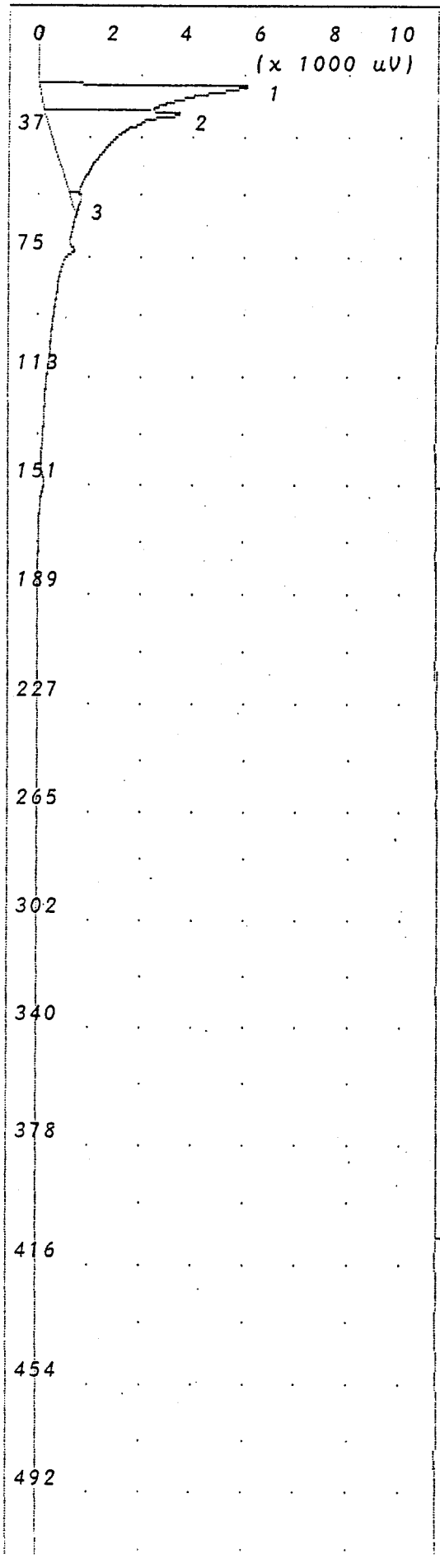
Analysis #5 10S+ GC Function Analysis Report



Time Printed: Oct 25,94 11:40
Sample Time: Oct 25,94 11:31

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	35.76 mVS	19.2
2	Unknown	39.31 mVS	28.1
3	Unknown	1.319 mVS	54.4

Notes

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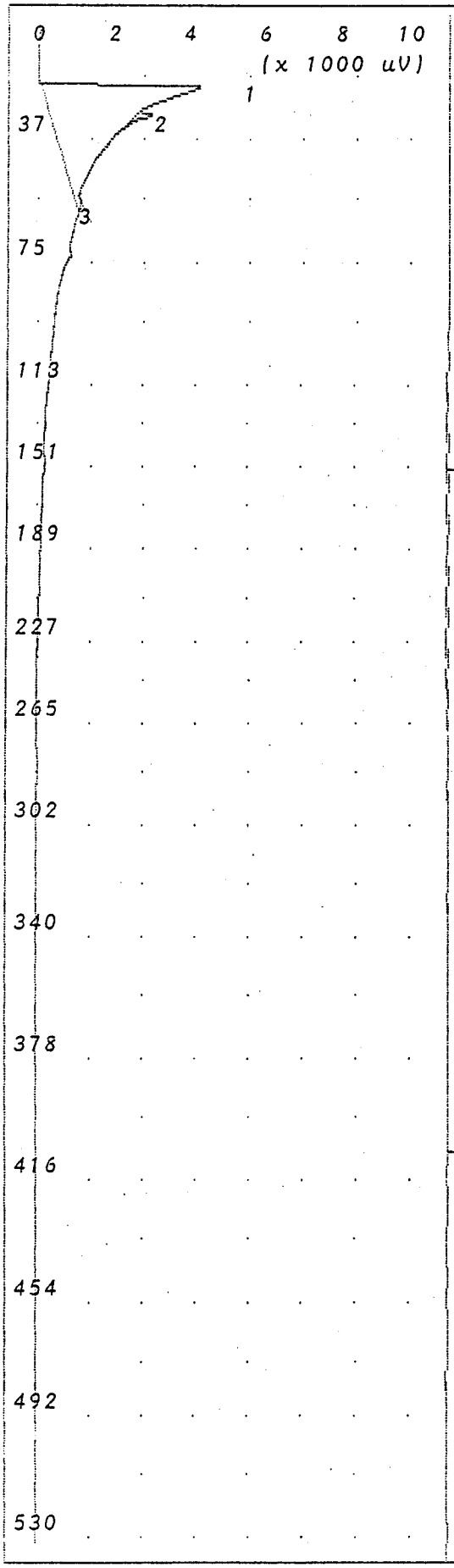
Analysis #11 10S+ GC Function Analysis Report



Time Printed: Oct 25,94 12:51
Sample Time: Oct 25,94 12:42

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	61.93	mVS	18.6
2	Unknown	0.874	mVS	28.0
3	Unknown	0.067	mVS	54.4

Notes

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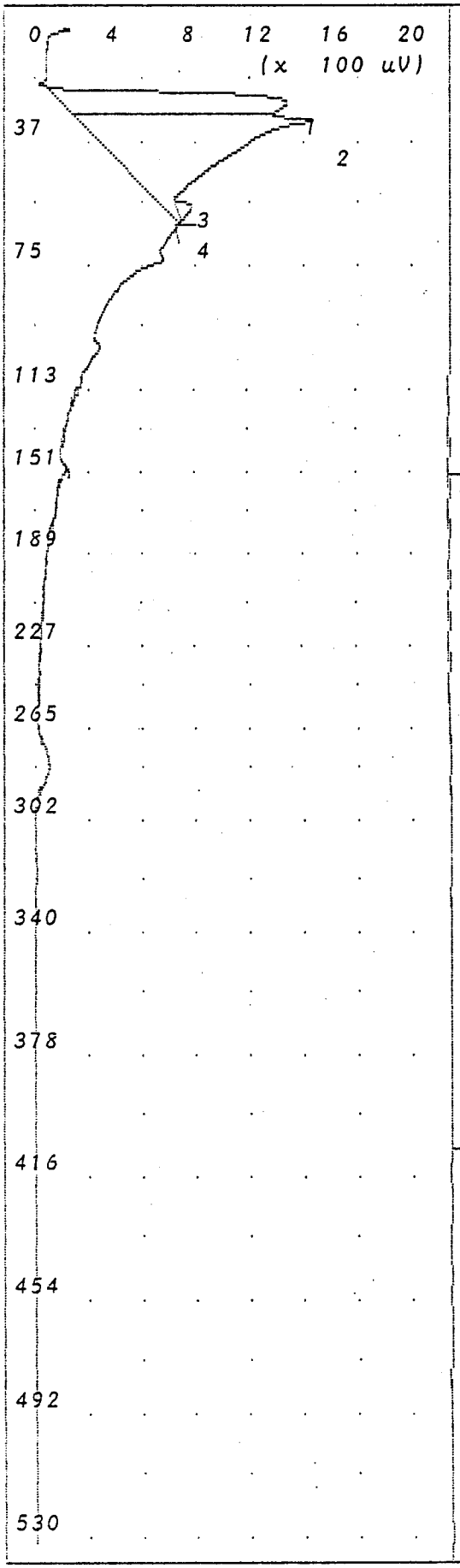
Analysis #18 10S+ GC Function Analysis Report



Time Printed: Oct 25,94 14:39
Sample Time: Oct 25,94 14:30

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	8.649	mVS	23.8
2	Unknown	16.06	mVS	28.8
3	Unknown	0.092	mVS	54.8
4	Unknown	0.272	mVS	55.8

Notes

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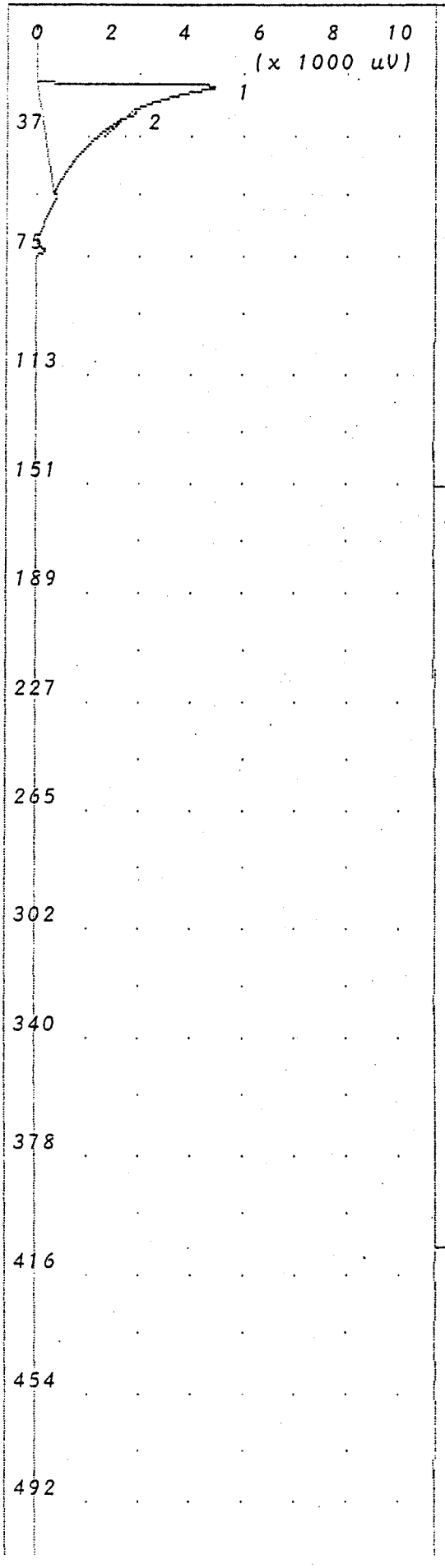
Analysis #4 10S+ GC Function Analysis Report



Time Printed: Oct 26,94 11:56
Sample Time: Oct 26,94 11:47

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	69.68 mVS	18.8
2	Unknown	0.197 mVS	28.1

Notes

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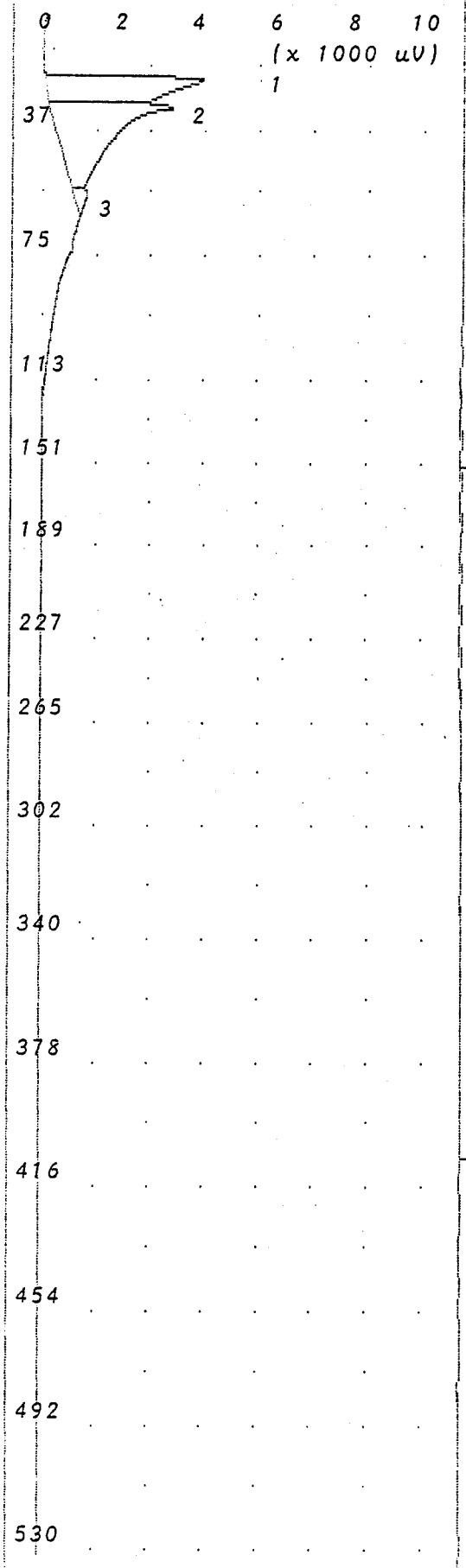
Analysis #11 10S+ GC Function Analysis Report



Time Printed: Oct 26,94 14:16
Sample Time: Oct 26,94 14:07

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	29.18 mVS	19.0
2	Unknown	37.30 mVS	28.2
3	Unknown	1.883 mVS	54.2

Notes

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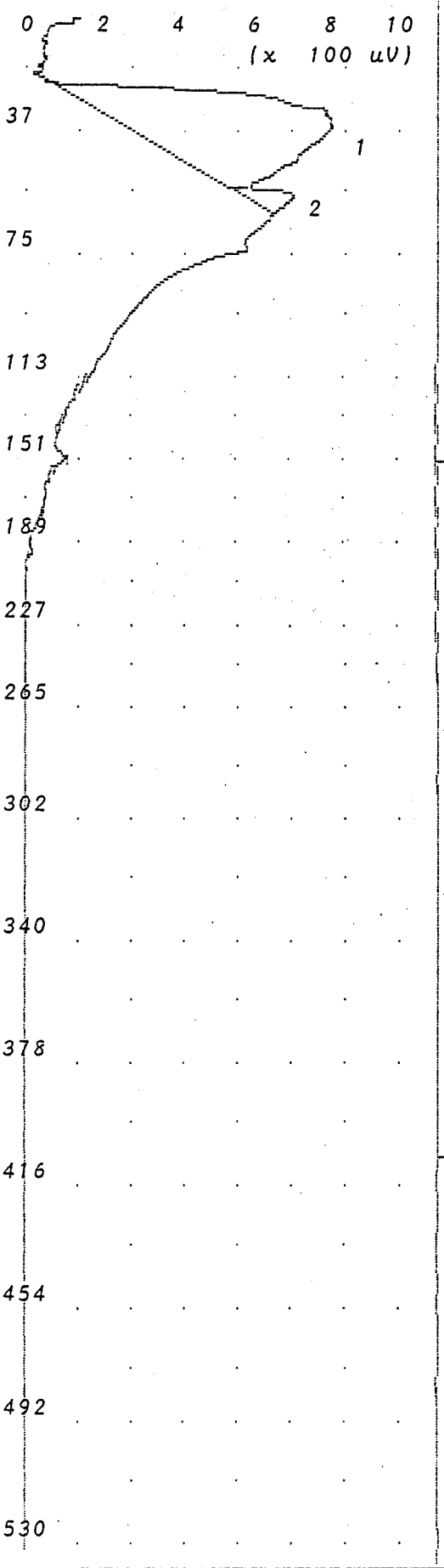
Analysis #18 10S+ GC Function Analysis Report



Time Printed: Oct 26,94 15:39
Sample Time: Oct 26,94 15:30

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	12.65 mVS	32.4
2	Unknown	0.622 mVS	55.0

Notes

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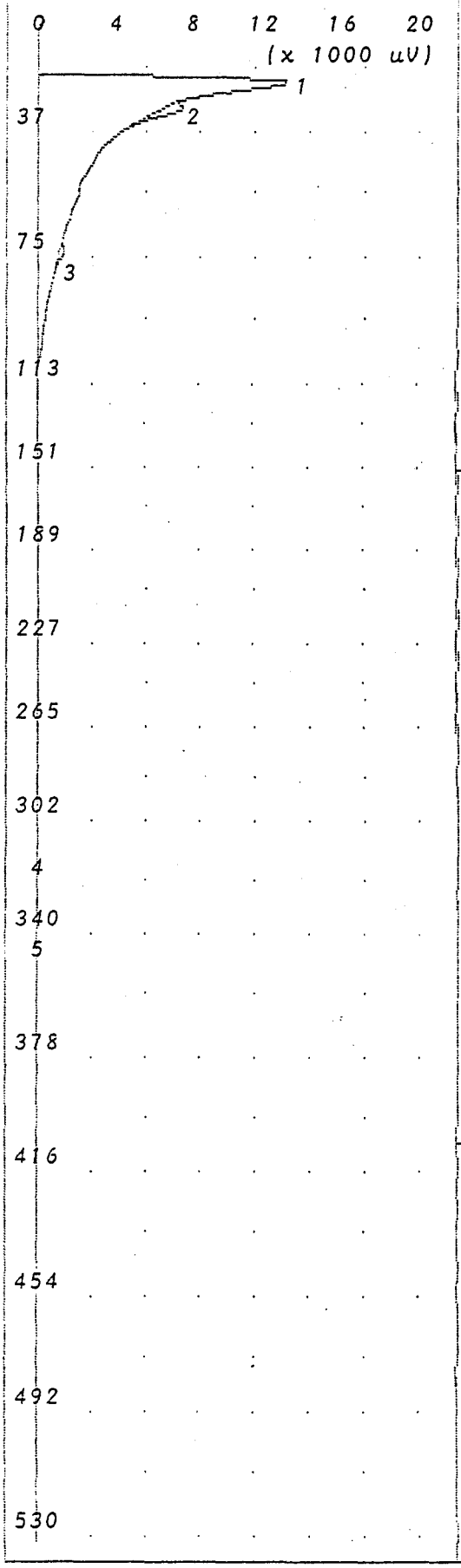
Analysis #4 10S+ GC Function Analysis Report



Time Printed: Oct 27,94 10:40
Sample Time: Oct 27,94 10:32

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	304.7	mVS	20.3
2	Unknown	3.476	mVS	28.0
3	Unknown	0.844	mVS	71.2
4	Ethylbenzene	0.557	ppb	313.0
5	MP Xylene	3.393	ppb	336.6

Notes

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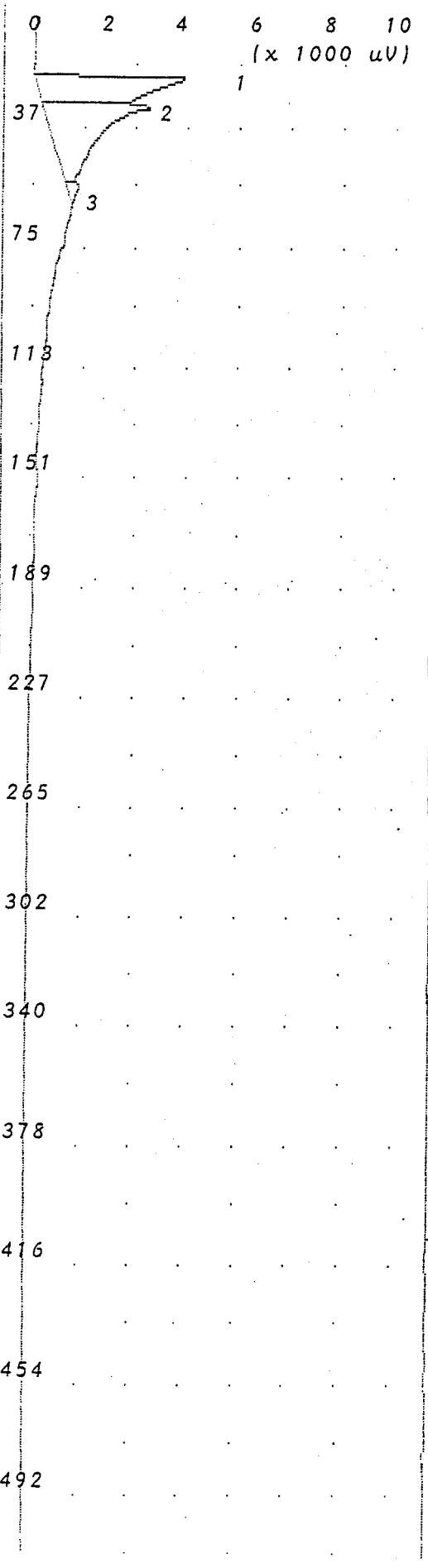
Air Blank

Analysis #11 10S+ GC Function Analysis Report



Time Printed: Oct 27,94 12:11
Sample Time: Oct 27,94 12:02

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	28.00	mVS	19.5
2	Unknown	32.53	mVS	29.0
3	Unknown	1.353	mVS	54.0

Notes

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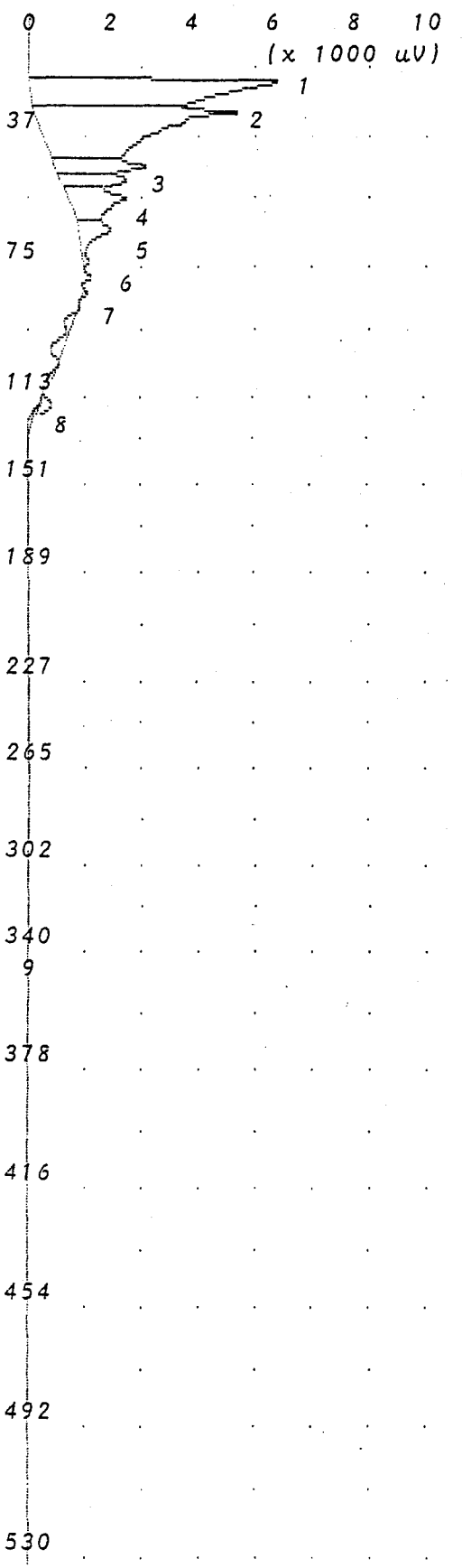
Analysis #15 10S+ GC Function Analysis Report



Time Printed: Oct 27,94 14:48
Sample Time: Oct 27,94 14:39

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	41.66	mVS	20.0
2	Unknown	44.68	mVS	28.5
3	Unknown	8.697	mVS	44.2
4	Unknown	6.556	mVS	48.1
5	Unknown	9.548	mVS	53.8
6	Unknown	4.404	mVS	62.8
7	Benzene	0.291	ppb	76.2
8	Unknown	1.440	mVS	116.9
9	MP Xylene	8.661	ppb	339.6

Notes

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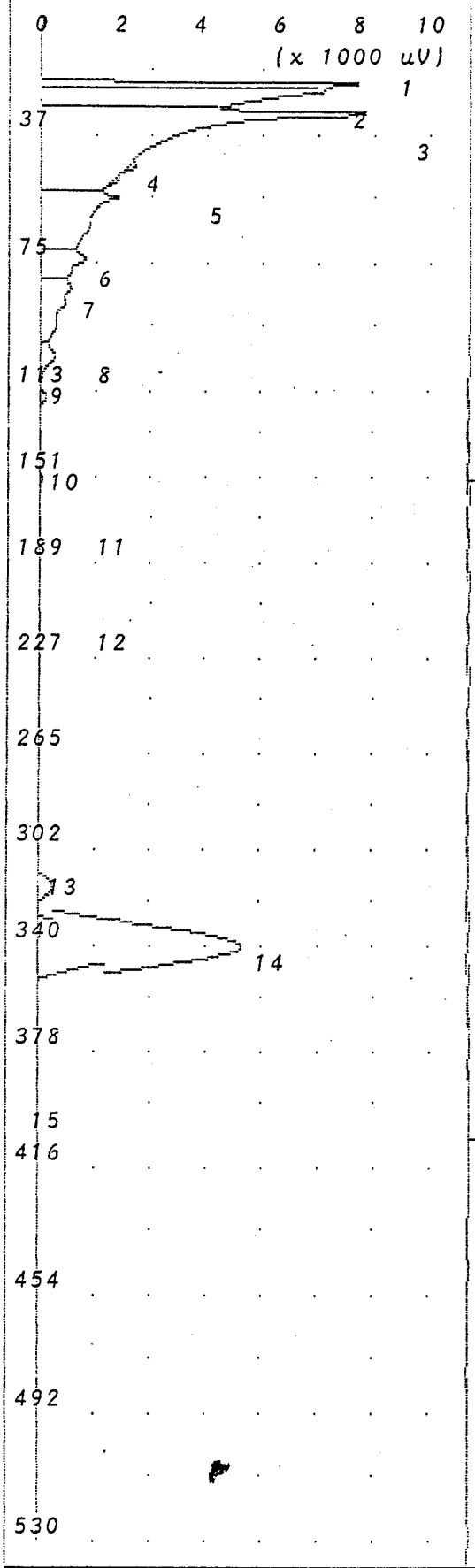
Analysis #4 10S+ GC Function Analysis Report



Time Printed: Oct 28,94 11:21
Sample Time: Oct 28,94 11:12

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	200.0	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	14.91	mVS	20.0
2	Unknown	39.50	mVS	21.9
3	Unknown	88.39	mVS	28.9
4	Unknown	0.762	mVS	44.3
5	Unknown	28.67	mVS	53.9
6	Unknown	11.02	mVS	72.0
7	Unknown	16.10	mVS	80.9
8	Unknown	6.965	mVS	101.0
9	Unknown	5.967	mVS	116.0
10	Unknown	4.901	mVS	149.2
11	Unknown	1.907	mVS	177.2
12	Unknown	2.758	mVS	218.2
13	Unknown	19.61	mVS	314.4
14	Unknown	123.1	mVS	338.3
15	Unknown	30.81	mVS	396.3

Notes

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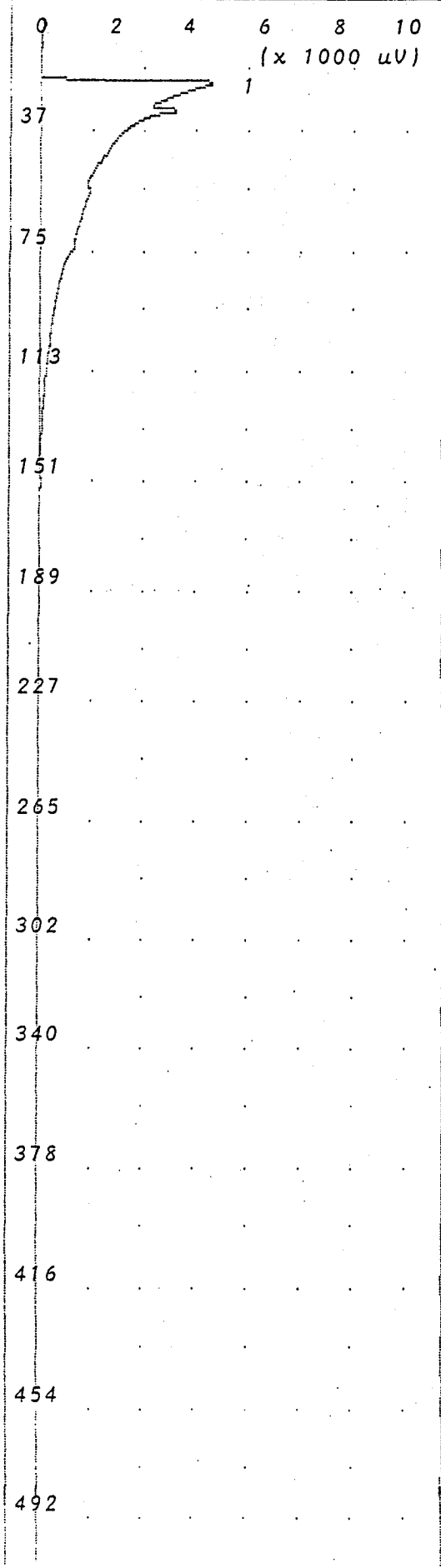
Analysis #11 10S+ GC Function Analysis Report



Time Printed: Oct 28,94 12:48
Sample Time: Oct 28,94 12:39

Method

Slope Up	0.500	mV/Sec
Slope Down	0.500	mV/Sec
Min Area	200.0	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	130.3 mVS	19.6

Notes

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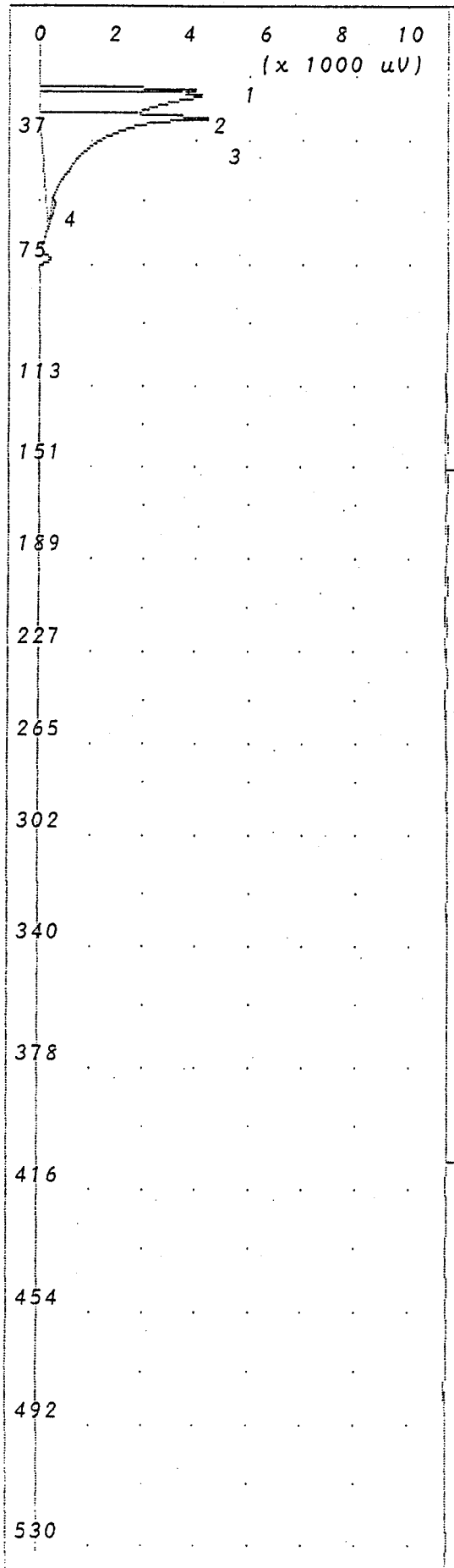
Analysis #4 10S+ GC Function Analysis Report



Time Printed: Oct 28,94 09:23
Sample Time: Oct 28,94 09:15

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	32	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	7.916 mVS	19.2
2	Unknown	24.47 mVS	21.5
3	Unknown	41.96 mVS	28.4
4	Unknown	0.320 mVS	54.2

Notes

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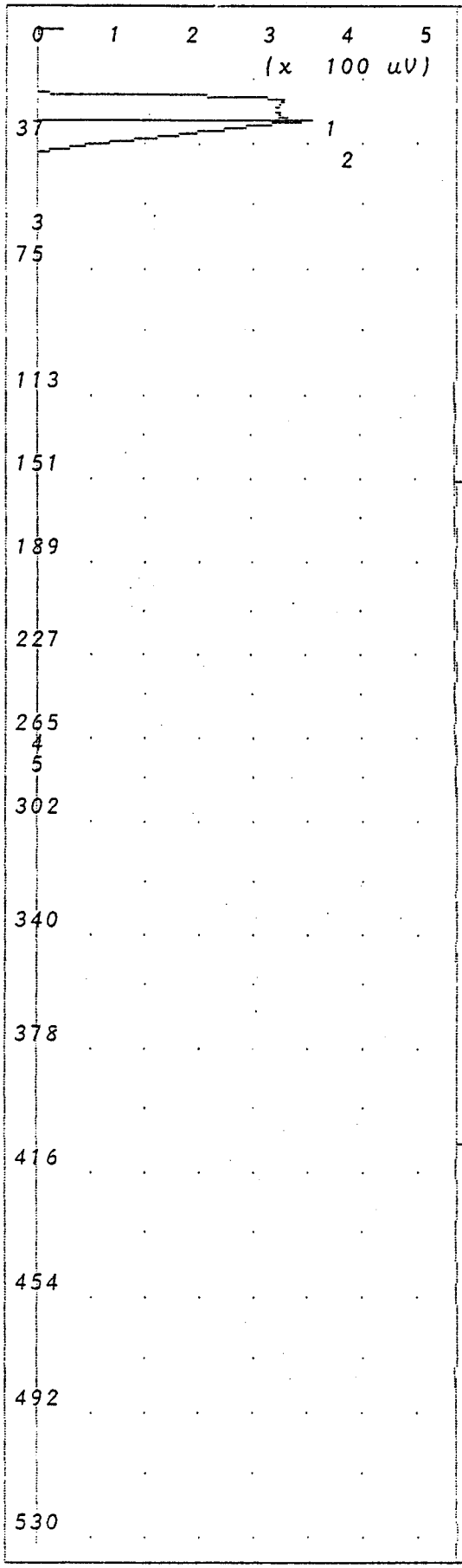
Analysis #4 10S+ GC Function Analysis Report



Time Printed: Oct 29,94 09:10
Sample Time: Oct 29,94 09:01

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	1.538	mVS	22.4
2	Unknown	11.57	mVS	28.4
3	Unknown	0.553	mVS	55.3
4	Unknown	0.470	mVS	264.8
5	Unknown	2.224	mVS	270.9

Notes

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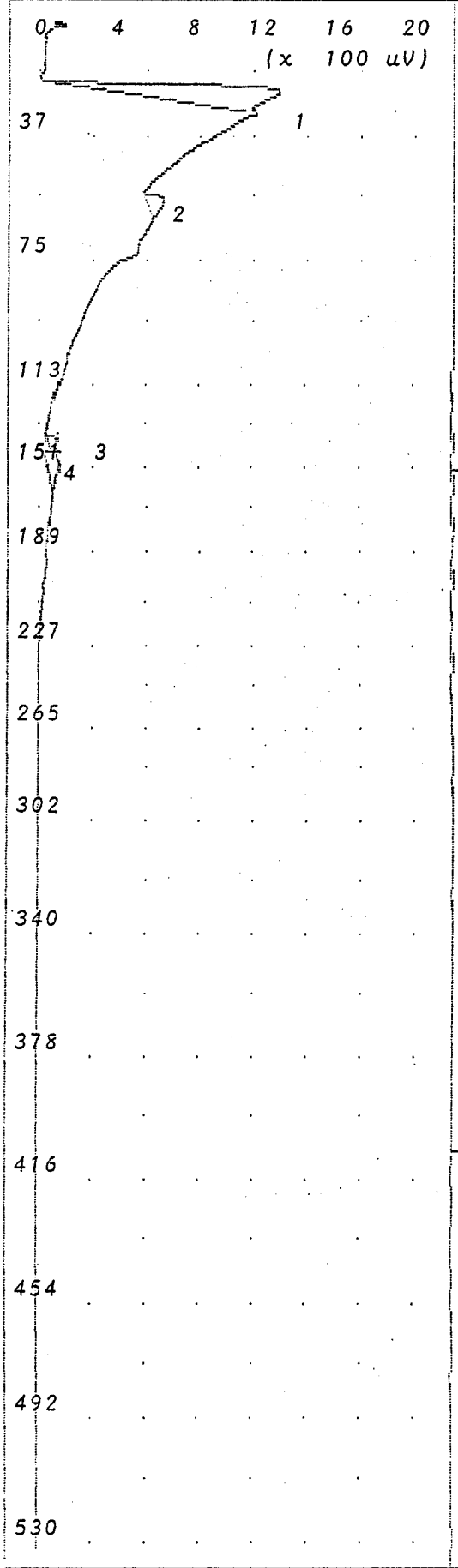
Analysis #11 10S+ GC Function Analysis Report



Time Printed: Oct 29,94 10:30
Sample Time: Oct 29,94 10:21

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	4.695 mVS	22.4
2	Unknown	0.451 mVS	55.4
3	Unknown	0.129 mVS	138.5
4	Toluene	1.797 ppb	148.6

Notes

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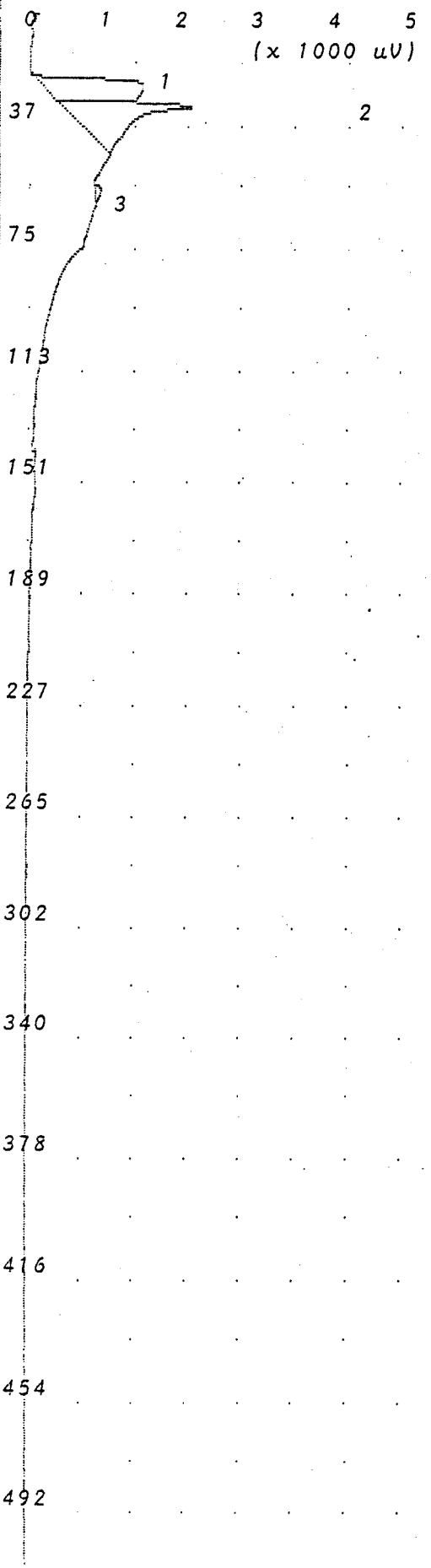
Analysis #18 10S+ GC Function Analysis Report



Time Printed: Oct 29,94 13:18
Sample Time: Oct 29,94 13:09

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	9.478 mVS	21.9
2	Unknown	10.98 mVS	28.8
3	Unknown	0.410 mVS	55.0

Notes

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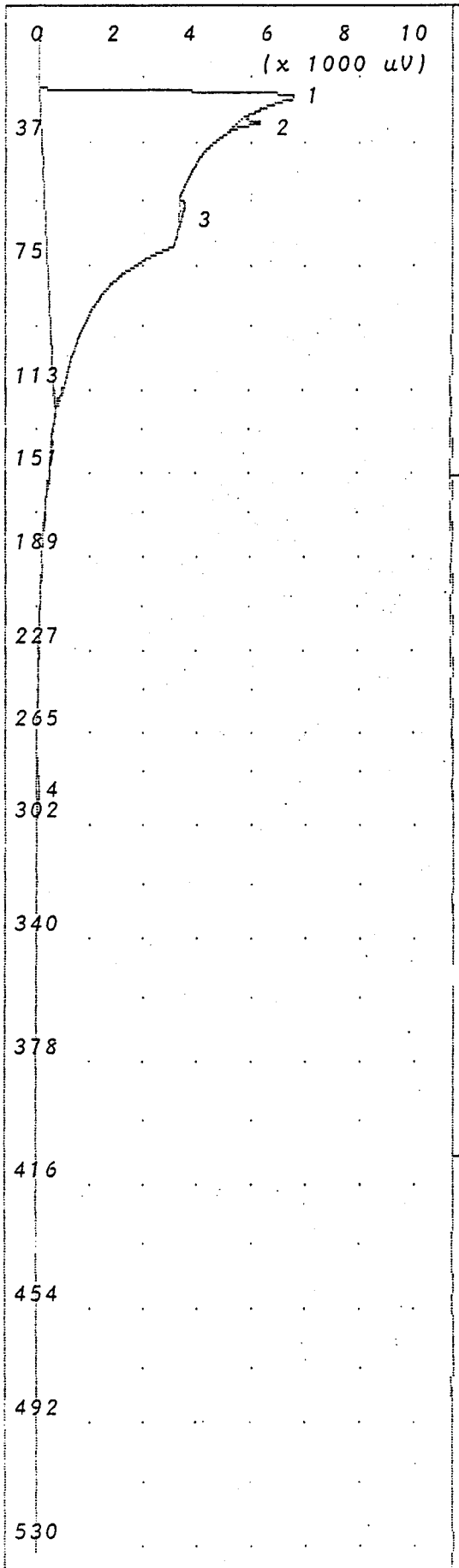
Analysis #27 10S+ GC Function Analysis Report



Time Printed: Oct 29,94 15:29
Sample Time: Oct 29,94 15:20

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	31	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	268.2 mVS	21.8
2	Unknown	1.023 mVS	29.4
3	Unknown	0.566 mVS	54.7
4	Unknown	1.438 mVS	286.1

Notes

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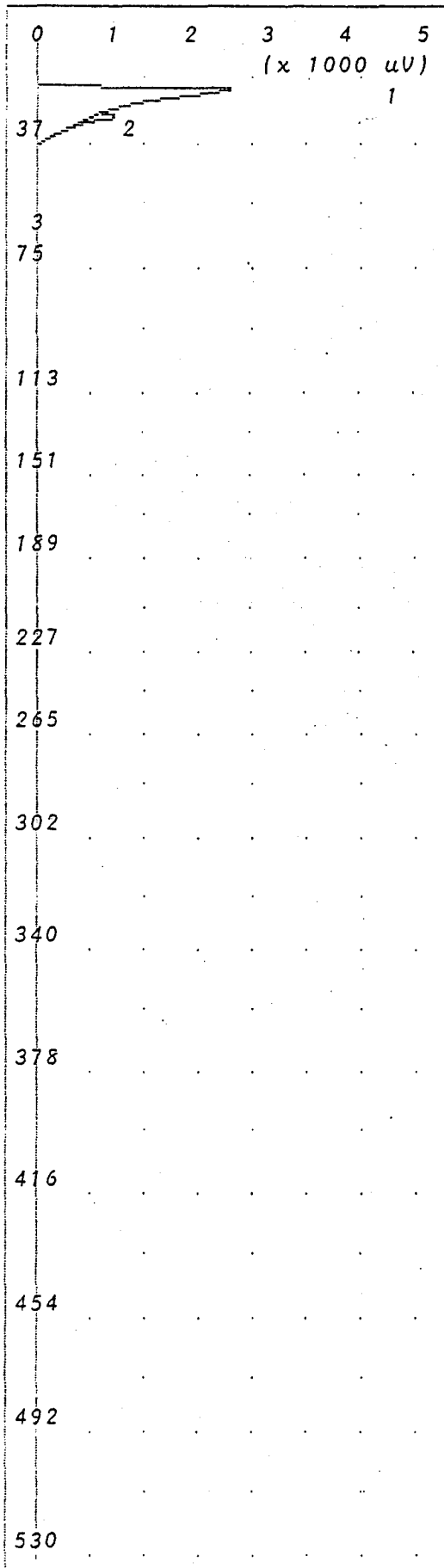
Analysis #4 10S+ GC Function Analysis Report



Time Printed: Oct 31,94 14:31
Sample Time: Oct 31,94 14:22

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	32	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	34.96	mVS	18.8
2	Unknown	0.568	mVS	27.6
3	Unknown	0.591	mVS	54.6

Notes

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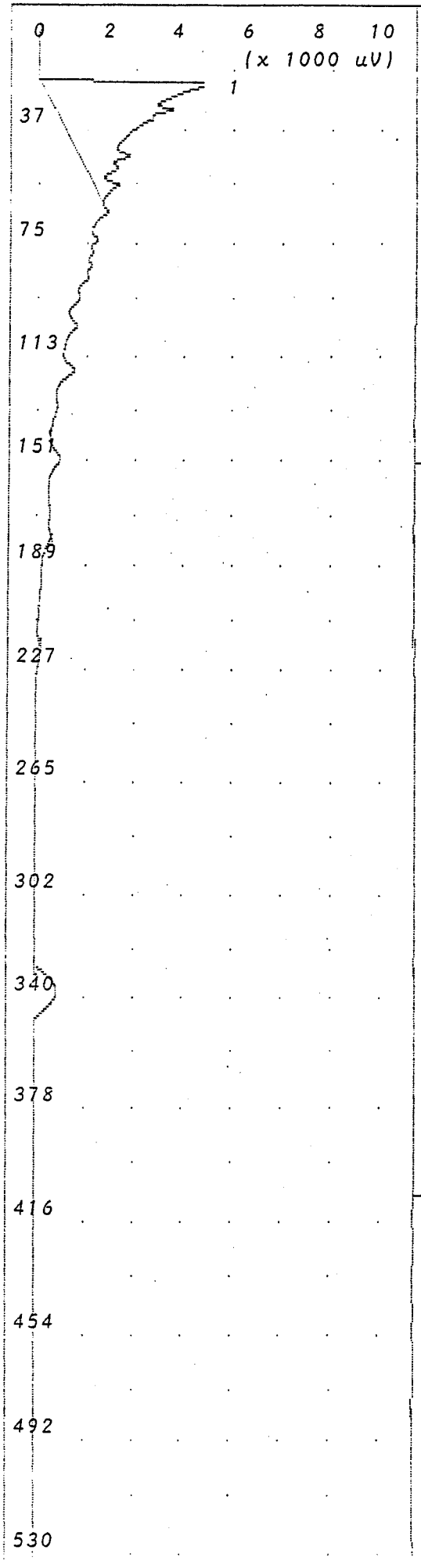
Analysis #14 10S+ GC Function Analysis Report



Time Printed: Nov 1,94 14:37
Sample Time: Nov 1,94 14:28

Method

Slope Up	3.000	mV/Sec
Slope Down	3.000	mV/Sec
Min Area	1.000	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	80.68 mVS	19.4

Notes

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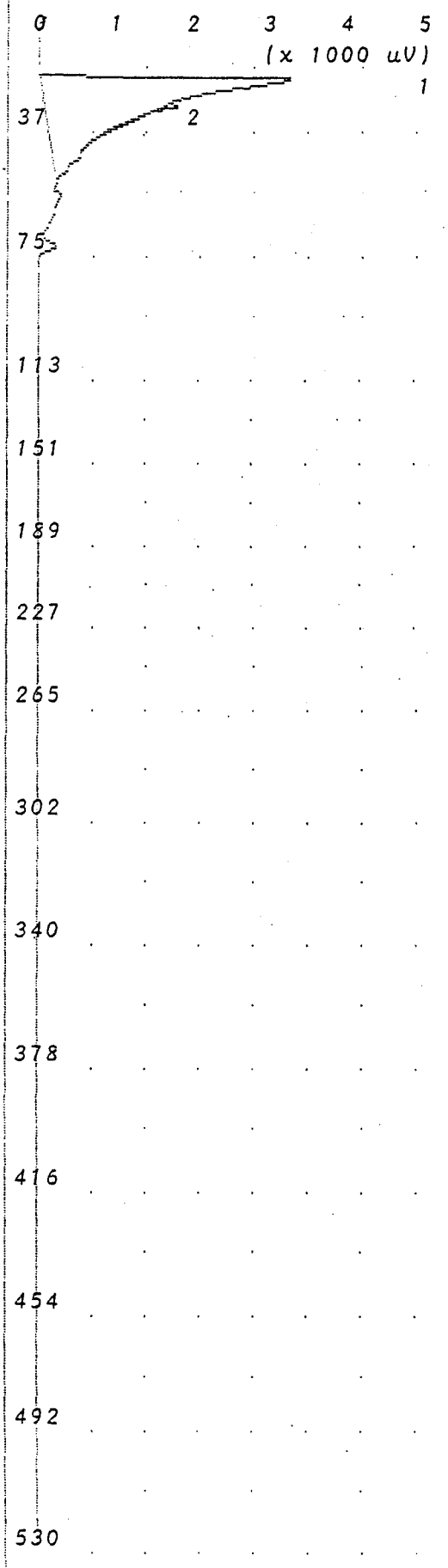
Analysis #6 10S+ GC Function Analysis Report



Time Printed: Nov 1,94 09:37
Sample Time: Nov 1,94 09:28

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	43.51	mVS	18.8
2	Unknown	0.259	mVS	27.8

Notes

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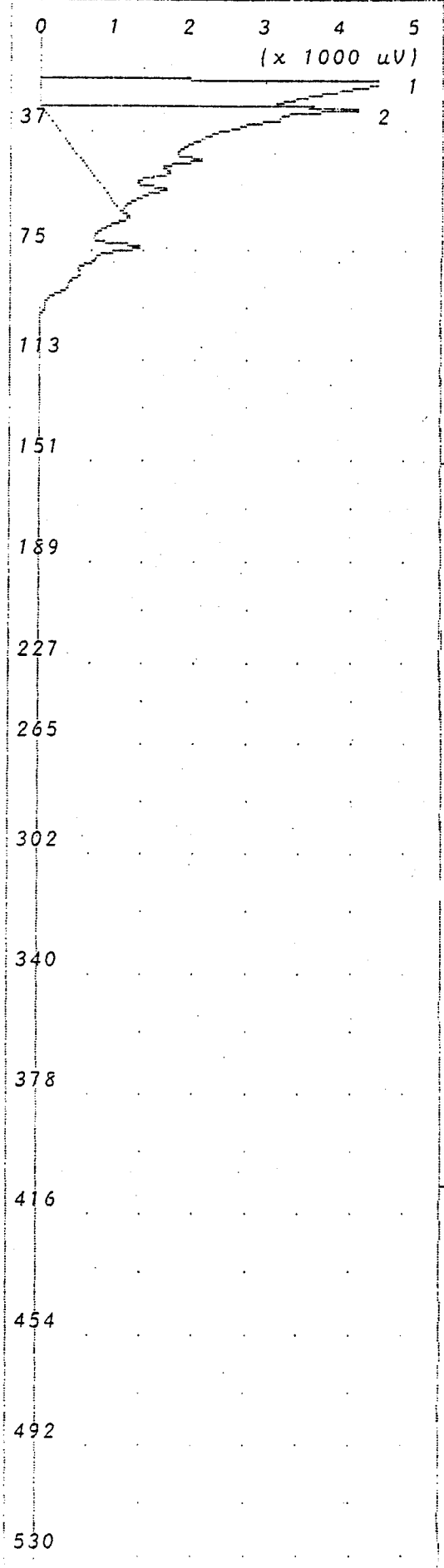
Analysis #21 10S+ GC Function Analysis Report



Time Printed: Nov 1,94 16:08
Sample Time: Nov 1,94 15:59

Method

Slope Up	3.000	mV/Sec
Slope Down	3.000	mV/Sec
Min Area	1.000	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	36.81	mVS	19.3
2	Unknown	50.57	mVS	28.6

Notes

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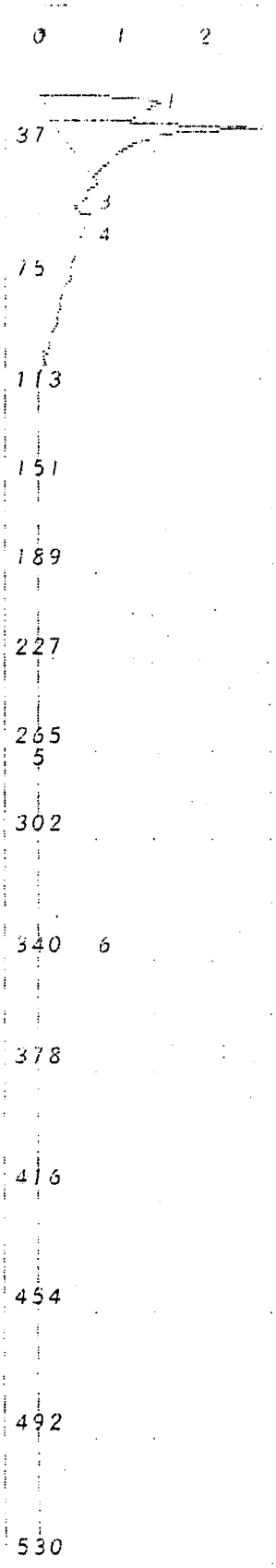

Time Printed: Nov 2,94 10:34
Sample Time: Nov 2,94 10:25

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	10.00	mVS	21.5
2	Unknown	12.33	mVS	28.2
3	Unknown	0.145	mVS	44.1
4	Unknown	0.659	mVS	54.2
5	Unknown	1.379	mVS	261.6
6	MP Xylene	2.806	ppb	331.7

Notes

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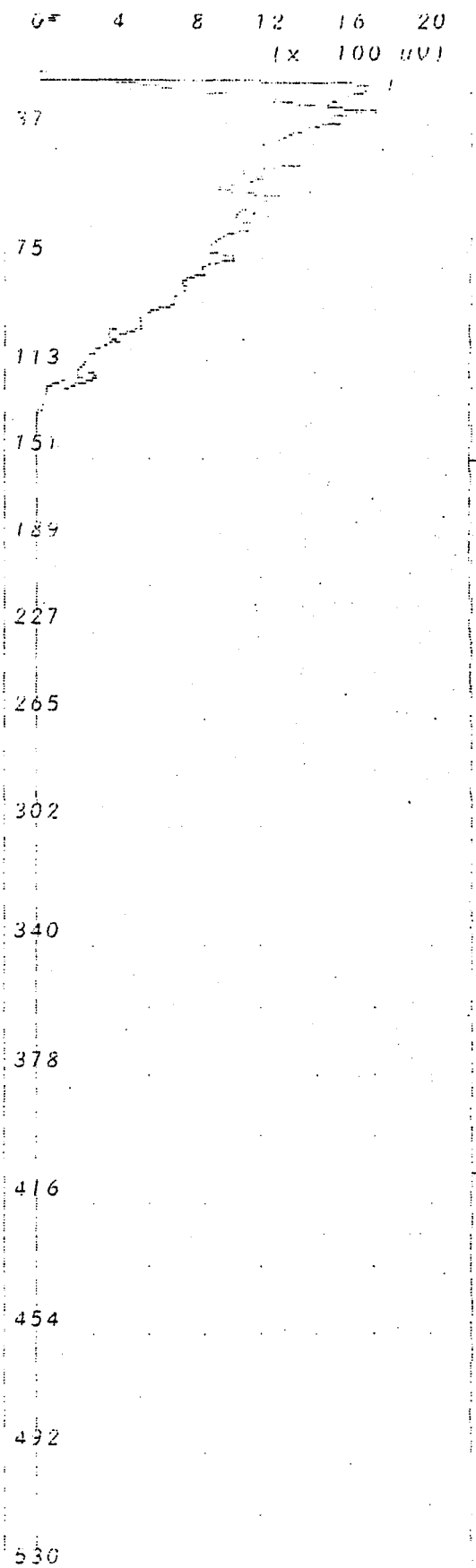
Analysis #18 105+ GC Function Analysis Report



Time Printed: Nov 2,94 12:16
Sample Time: Nov 2,94 12:07

Method

Slope Up	3.000	mV/Sec
Slope Down	3.000	mV/Sec
Min Area	1.000	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	5.660 mVS	21.2

Notes

Billy Mitchell Air National
Guard Station
Mark Escobar
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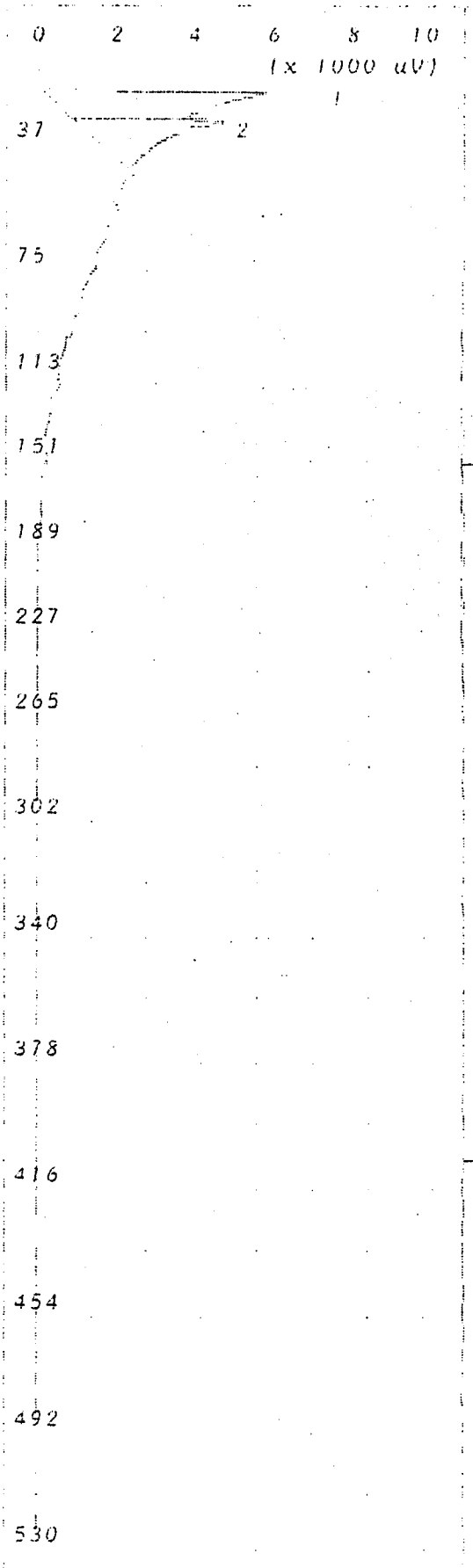
Analysis #25 TOS+ GC Function Analysis Report



Time Printed: Nov 2,94 15:11
Sample Time: Nov 2,94 15:02

Method

Slope Up	3.000	mV/Sec
Slope Down	3.000	mV/Sec
Min Area	1.000	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	37.97 mVS	19.4
2	Unknown	23.39 mVS	28.8

Notes

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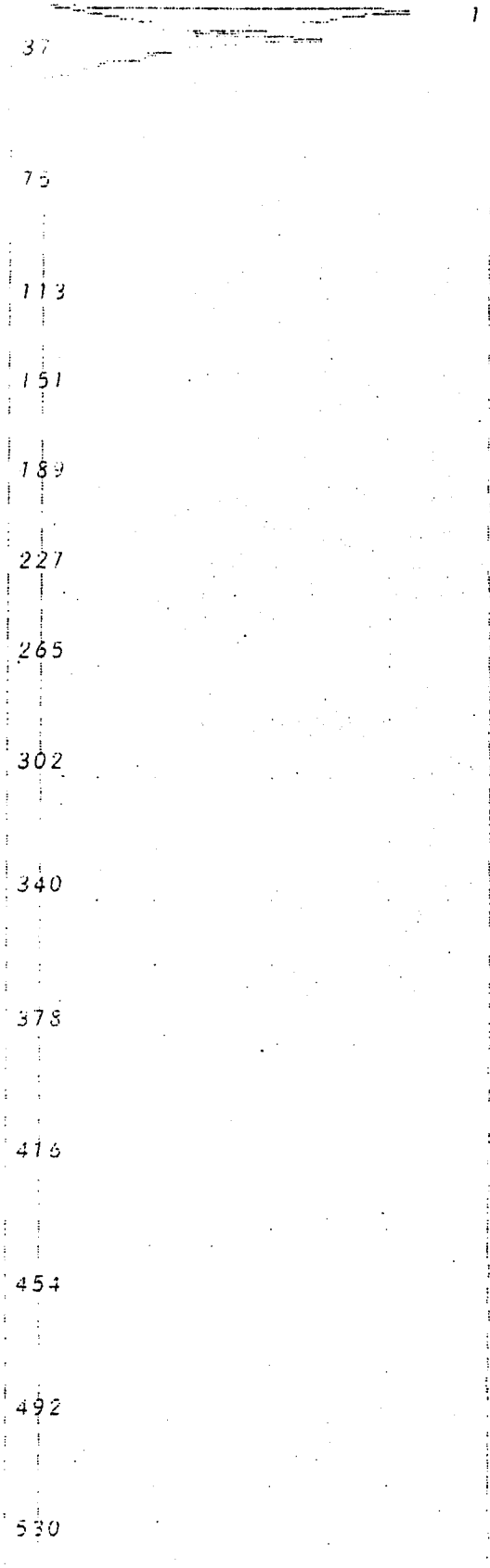
Analysis #1 GC Function Analysis Report



Time Printed: Nov 4.94 12:17
Sample Time: Nov 4.94 12:08

Method

Slope Up	2.000	mV/Sec
Slope Down	6.000	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	32	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	4.664 mVS	20.4

Notes

Billy Mitchell Air National
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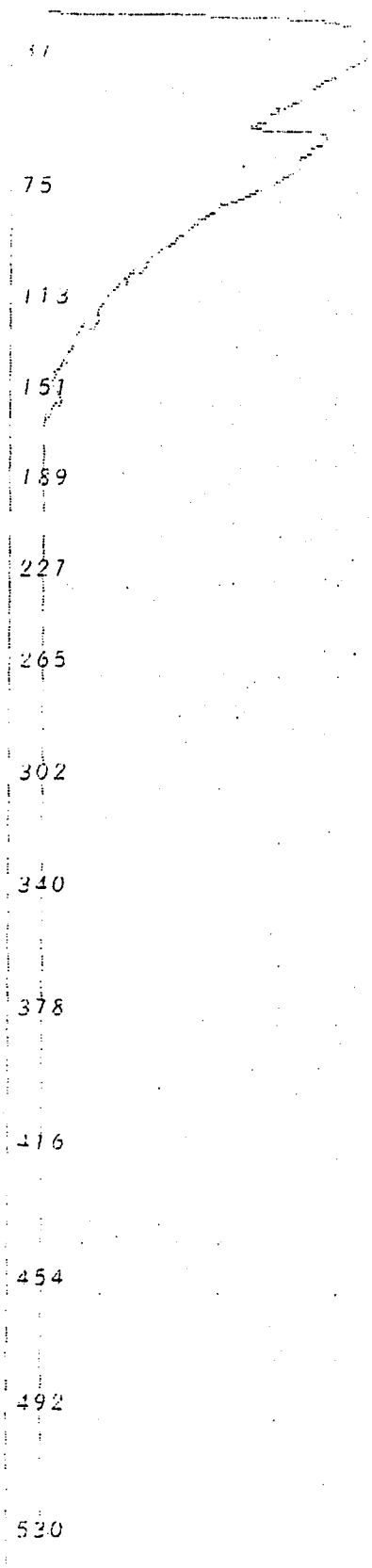
Analysis #11 10S+ GC Function Analysis Report



Time Printed: Nov 4,94 14:25
Sample Time: Nov 4,94 14:16

Method

Slope Up	2.000	mV/Sec
Slope Down	2.000	mV/Sec
Min Area	2.000	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.

Notes

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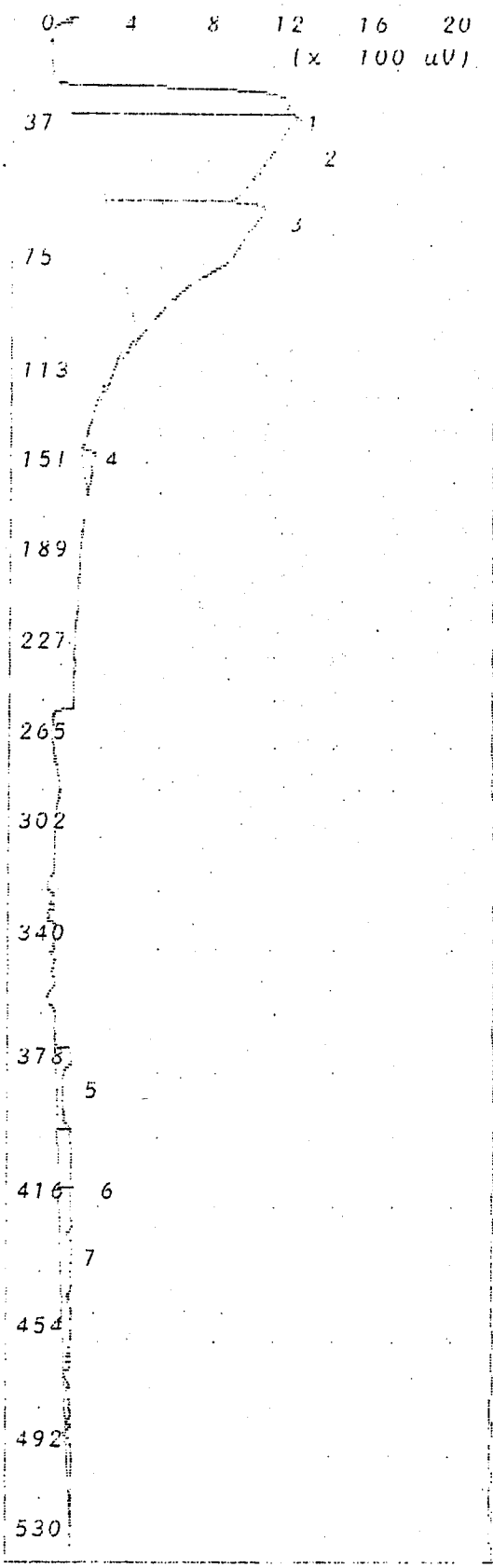
Analysis #31 TOS+ GC Function Analysis Report



Time Printed: Nov 3,94 14:04
Sample Time: Nov 3,94 13:55

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	20.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	31	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	8.054	mVS	25.2
2	Unknown	21.86	mVS	29.2
3	Unknown	16.24	mVS	55.2
4	Toluene	0.863	ppb	142.2
5	Unknown	1.108	mVS	373.0
6	O Xylene	89.75	ppb	409.0
7	Unknown	3.379	mVS	423.2

Notes

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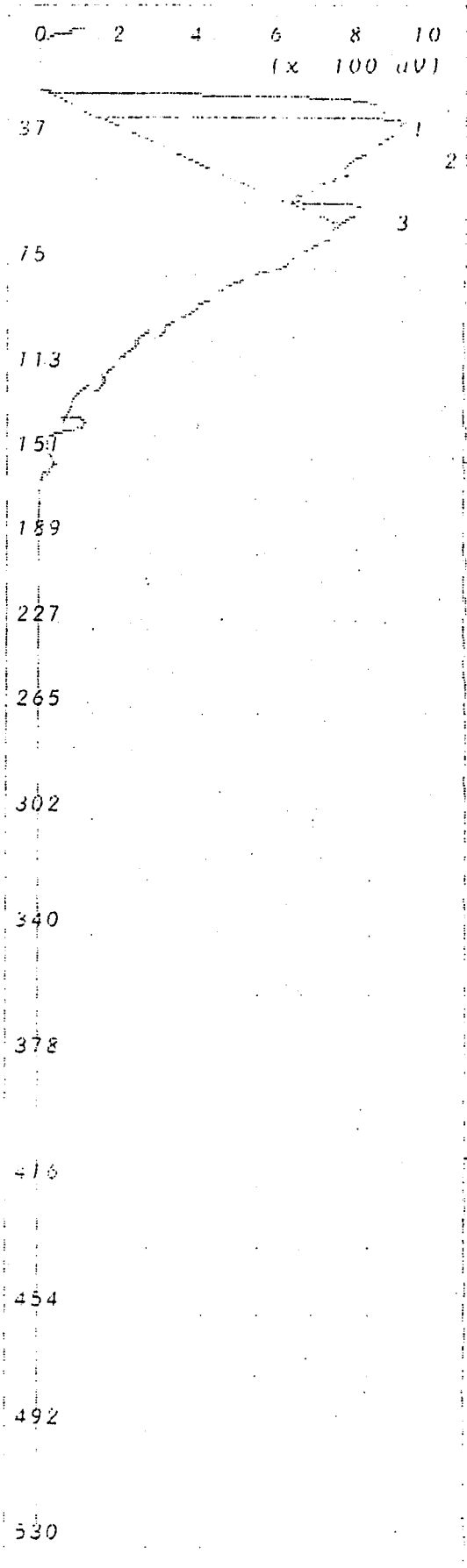
Analysis #24 1051 GC Function Analysis Report



Time Printed: Nov 3,94 12:36
Sample Time: Nov 3,94 12:27

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	20.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

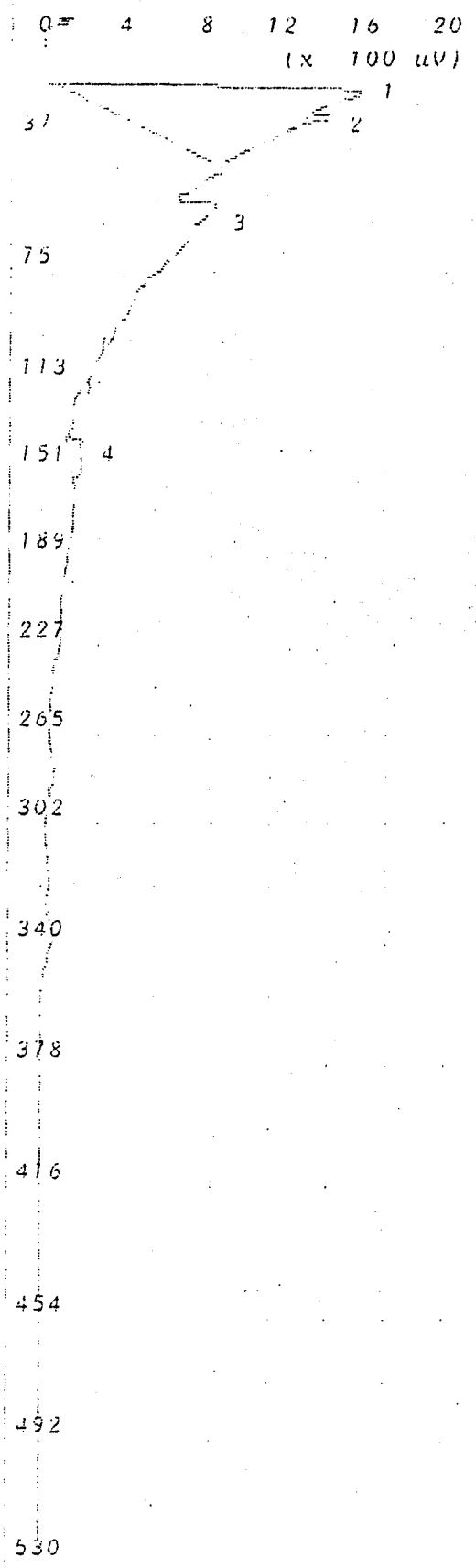
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	5.604 mVS	25.3
2	Unknown	10.36 mVS	29.3
3	Unknown	0.665 mVS	55.3

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
Air Blank

Analysis #14 10S+ GC Function Analysis Report



Time Printed: Nov 3,94 10:43
Sample Time: Nov 3,94 10:34

Method

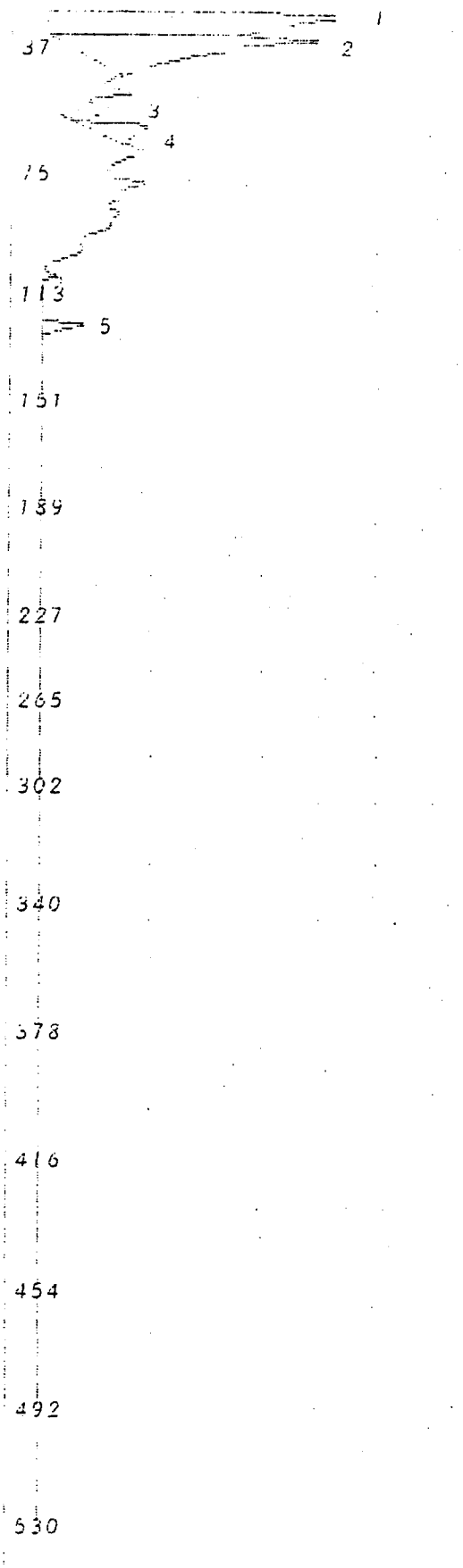
Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	20.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	18.44	mVS	22.0
2	Unknown	0.253	mVS	29.0
3	Unknown	0.661	mVS	55.0
4	Toluene	1.073	ppb	137.0

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
Air Blank



Time Printed: Nov 4,14 08:4c
Sample Time: Nov 3,94 0s:37

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	20.0	%
Det Flow	12	ml/min
b/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	32	C
Max Gain	1000	
Analysis Time	530.0	sec

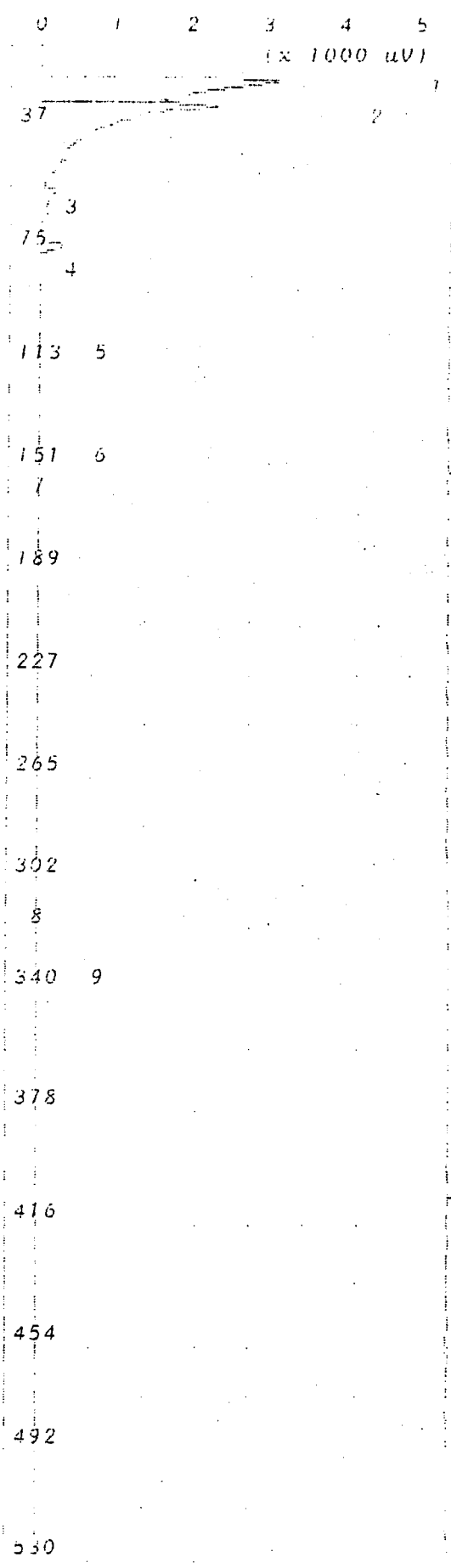
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	5.338 mVS	21.2
2	Unknown	3.558 mVS	28.2
3	Unknown	0.254 mVS	44.2
4	Unknown	0.638 mVS	54.3
5	Unknown	0.893 mVS	115.3

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
Air Blank

Analysis #4 .05+ 30 Function Analysis Report



Time Printed: Nov 3,94 08:35
Sample Time: Nov 3.94 08:26

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	20.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	31	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	21.86 mVS	19.1
2	Unknown	14.32 mVS	27.5
3	Unknown	0.562 mVS	54.6
4	Benzene	1.698 ppb	71.0
5	Unknown	0.136 mVS	98.6
6	Unknown	0.587 mVS	135.7
7	Toluene	2.143 ppb	145.8
8	Ethylbenzene	4.266 ppb	308.0
9	MP Xylene	14.18 ppb	329.0

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
Air Blank

Analysis #4 10S+ GC Function Analysis Report

0 1 2 3 4 5
(x 100 uV)

Time Printed: Nov 7,94 14:37
Sample Time: Nov 7 94 14:29

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	31	C
Max Gain	1000	
Analysis Time	530.0	sec

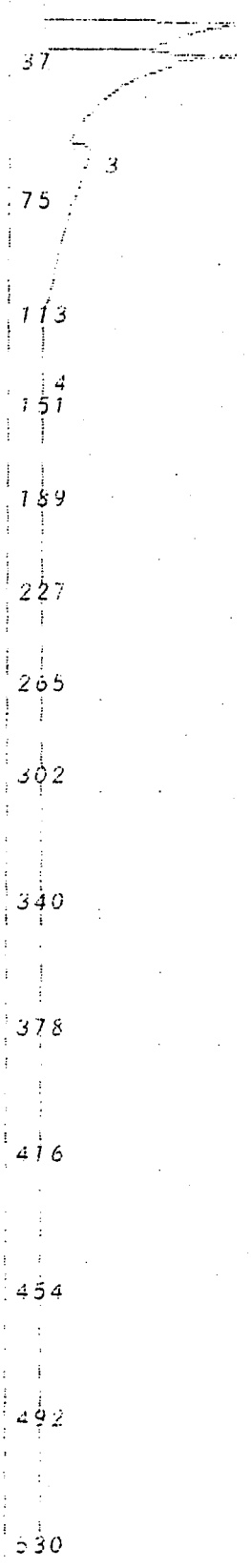
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	1.245	mVS	20.4
2	Unknown	0.038	mVS	27.4
3	Unknown	0.208	mVS	28.4
4	Unknown	5.037	mVS	56.5
5	Benzene	3.930	ppb	70.5

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
Air Blank

Analysis #1 TOS+ GC Function Analysis Report



Time Printed: Nov 7,94 16:02
Sample Time: Nov 7.94 15:53

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	16.96	mVS	20.2
2	Unknown	21.28	mVS	29.1
3	Unknown	0.890	mVS	55.3
4	Toluene	0.144	ppb	135.4

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
Air Blank

Analysis #5 10S+ GC Function Analysis Report

0 1 2 3 4 5
(x 100 uV)

Time Printed: Nov 8,94 10:15
Sample Time: Nov 8,94 10:06

Method

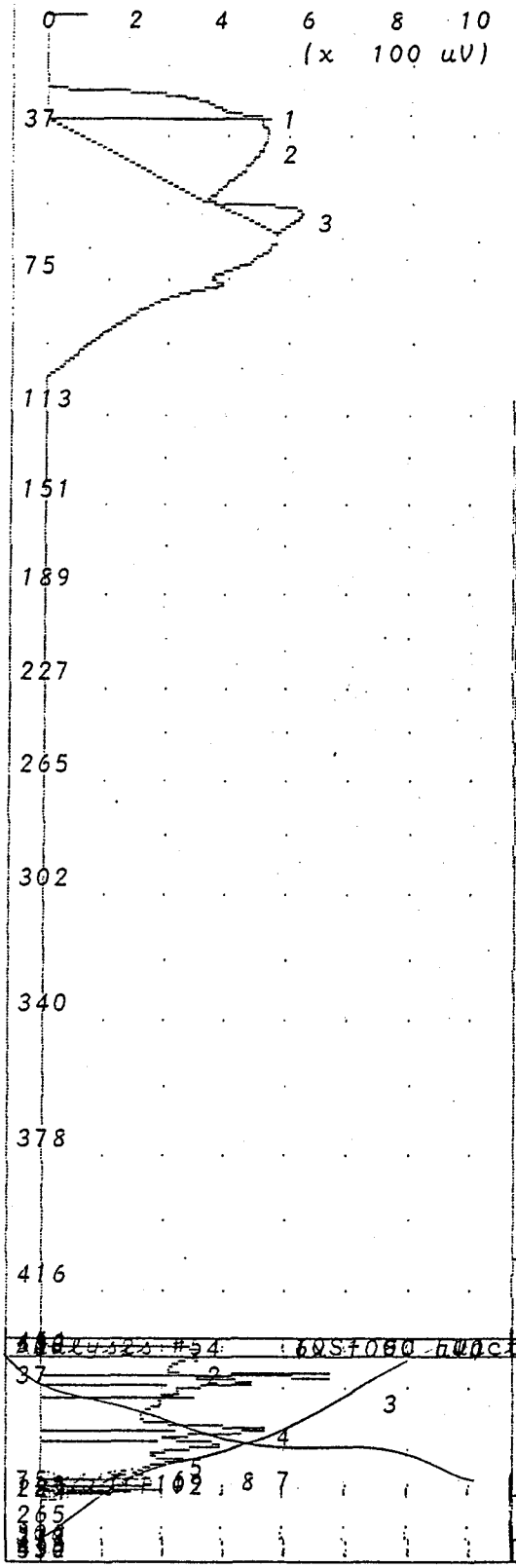
Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	32	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	1.899	mVS	23.2
2	Unknown	0.136	mVS	29.2
3	Unknown	0.897	mVS	56.2

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
Air Blank



Time Printed: Nov 9,94 12:37
Sample Time: Nov 9,94 12:28

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

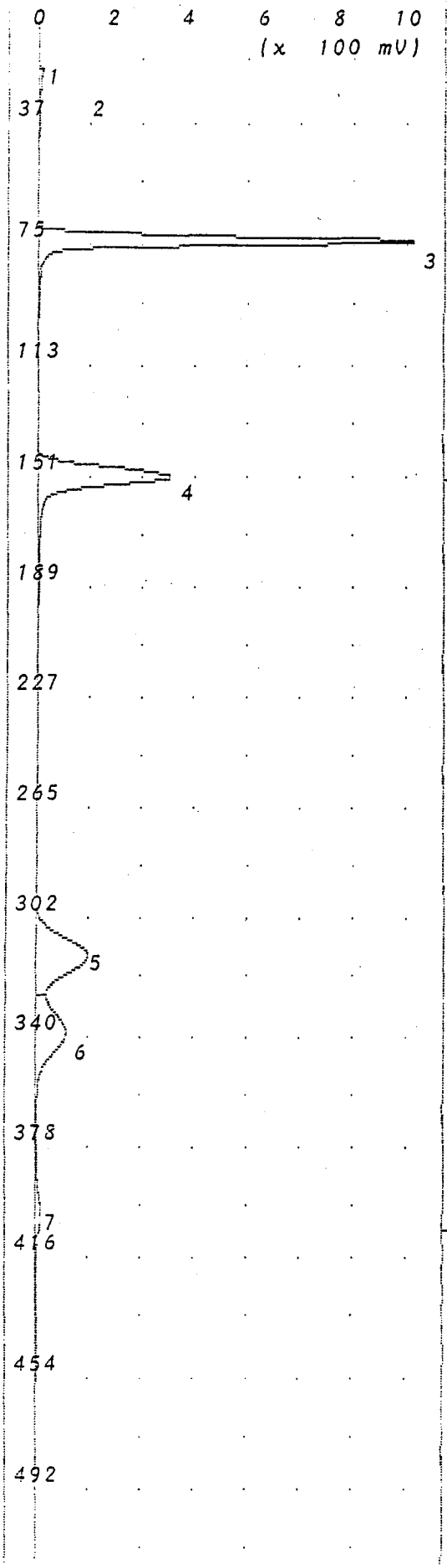
Pk	Compound Name	Area/Conc	R.T.
1	Unknown	3.974 mVS	31.2
2	Unknown	6.195 mVS	34.2
3	Unknown	0.884 mVS	55.2

Notes

Billy Mitchell Air National AIR BLANK

Slope Up 0.500 mV/Sec
Slope Down 1.500 mV/Sec
Min Area 0.000 mVSec
Min Height 0.000 mV

Analysis #2 10S+ GC Function Analysis Report



Time Printed: Oct 27,94 10:14
Sample Time: Oct 27,94 10:05

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	32	C
Max Gain	1000	
Analysis Time	530.0	sec

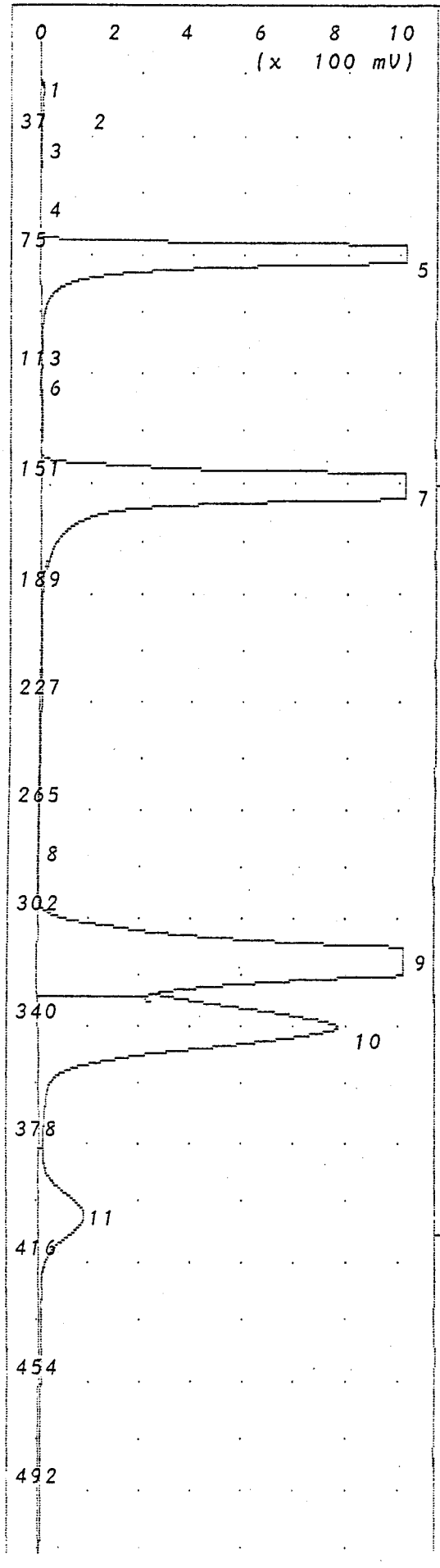
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	132.8 mVS	19.0
2	Unknown	1.834 mVS	28.2
3	Benzene	809.1 ppb	71.8
4	Toluene	865.3 ppb	149.0
5	Ethylbenzene	838.0 ppb	312.5
6	MP Xylene	1.673 ppm	336.6
7	O Xylene	894.4 ppb	398.0

Notes

Mark Escobar
Billy Mitchell Air National Guard Base
1 ppm BTEX standard

Analysis #3 10S+ GC Function Analysis Report



Time Printed: Oct 27,94 10:27
Sample Time: Oct 27,94 10:18

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	32	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	18.98	mVS	19.0
2	Unknown	163.6	mVS	21.1
3	Unknown	2.379	mVS	28.2
4	Unknown	1.022	mVS	52.9
5	Benzene	7.914	ppm	72.8
6	Unknown	2.682	mVS	109.3
7	Toluene	8.330	ppm	150.0
8	Unknown	3.496	mVS	269.6
9	Ethylbenzene	6.613	ppm	314.1
10	MP Xylene	9.221	ppm	338.3
11	O Xylene	5.547	ppm	399.0

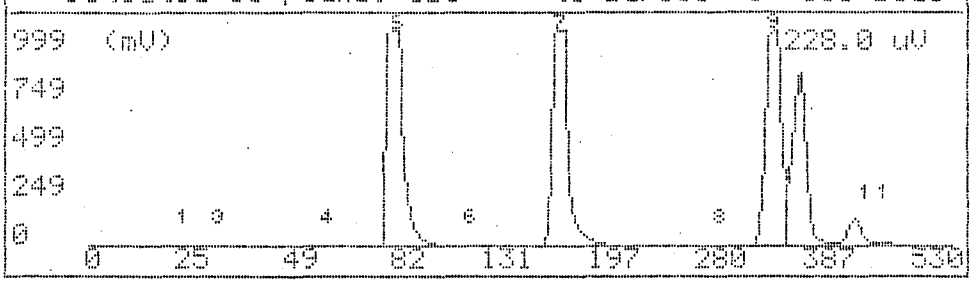
Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
10 ppm BTEX Standard

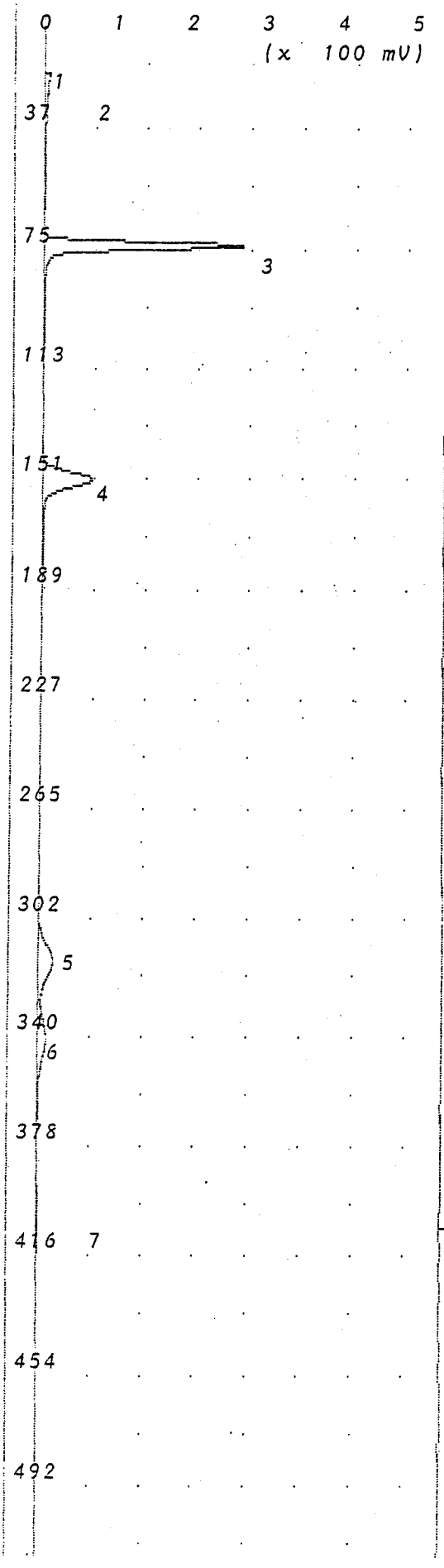
Fault: Calibrant 106+ GC Function Oct 27,94 10:31
-- Analysis No 3 -- Run at - Oct 27,94 10:18 -

Pk No	Name	Conc/Area	Alarm	Ret.Time
1	Unknown	19.01 mVS	-No-	19.0 sec
2	Unknown	171.0 mVS	-No-	21.1 sec
3	Unknown	2.379 mVS	-No-	28.2 sec
4	Unknown	1.022 mVS	-No-	52.9 sec
5	Benzene	10.00 ppm	-No-	72.0 sec
6	Unknown	2.682 mVS	-No-	102.3 sec
7	Toluene	10.00 ppm	-No-	150.0 sec
8	Unknown	3.496 mVS	-No-	269.6 sec
9	Ethylbenzene	10.00 ppm	-No-	314.1 sec

- Detected 11 peaks. Use ↑ ↓ to scroll [535 sec]



Analysis #10 10S+ GC Function Analysis Report



Time Printed: Oct 27,94 11:59
Sample Time: Oct 27,94 11:50

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

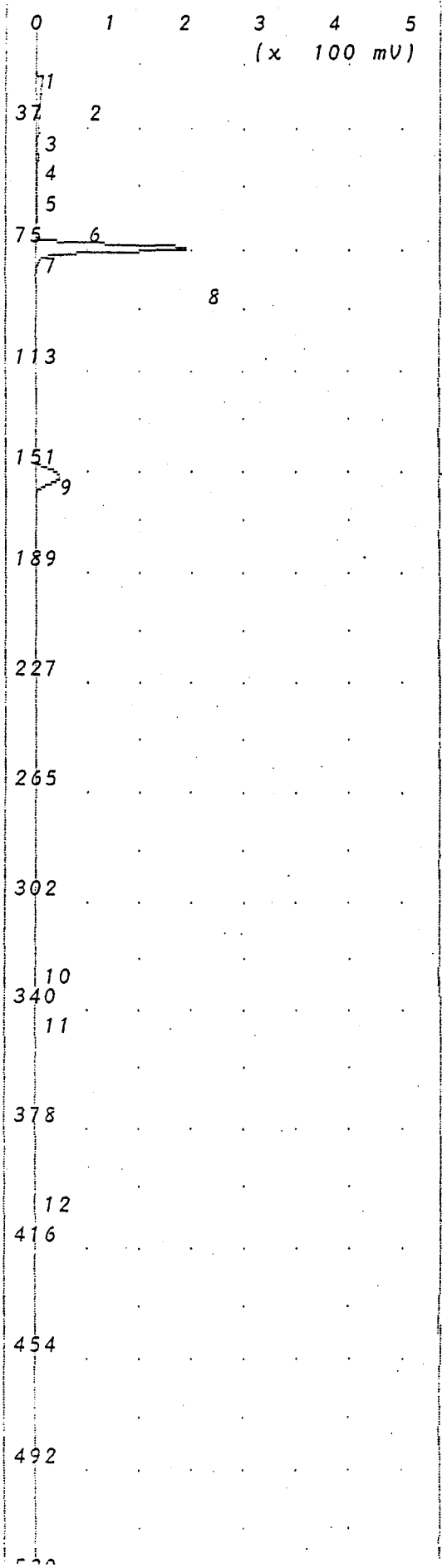
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	143.0	mVS	19.2
2	Unknown	0.912	mVS	28.4
3	Benzene	60.26	ppb	71.8
4	Toluene	52.80	ppb	149.4
5	Ethylbenzene	61.95	ppb	311.7
6	MP Xylene	126.1	ppb	339.0
7	O Xylene	74.96	ppb	400.6

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
100 ppb BTEX Standard

Analysis #14 10S+ GC Function Analysis Report



Time Printed: Oct 27,94 14:36
Sample Time: Oct 27,94 14:27

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	175.3	mVS	20.0
2	Unknown	1.790	mVS	28.7
3	Unknown	1.192	mVS	31.4
4	Unknown	27.99	mVS	44.3
5	Unknown	29.80	mVS	48.4
6	Unknown	55.22	mVS	54.1
7	Unknown	44.24	mVS	62.9
8	Benzene	63.76	ppb	72.0
9	Toluene	62.39	ppb	150.4
10	Ethylbenzene	31.48	ppb	315.7
11	MP Xylene	82.44	ppb	340.6
12	O Xylene	57.15	ppb	400.0

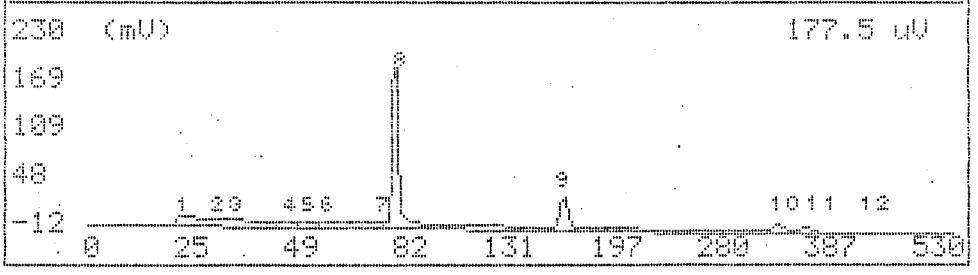
Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
~~QA/QC Split Spoon (EQ)~~
100 ppb BTEX STD (MB)

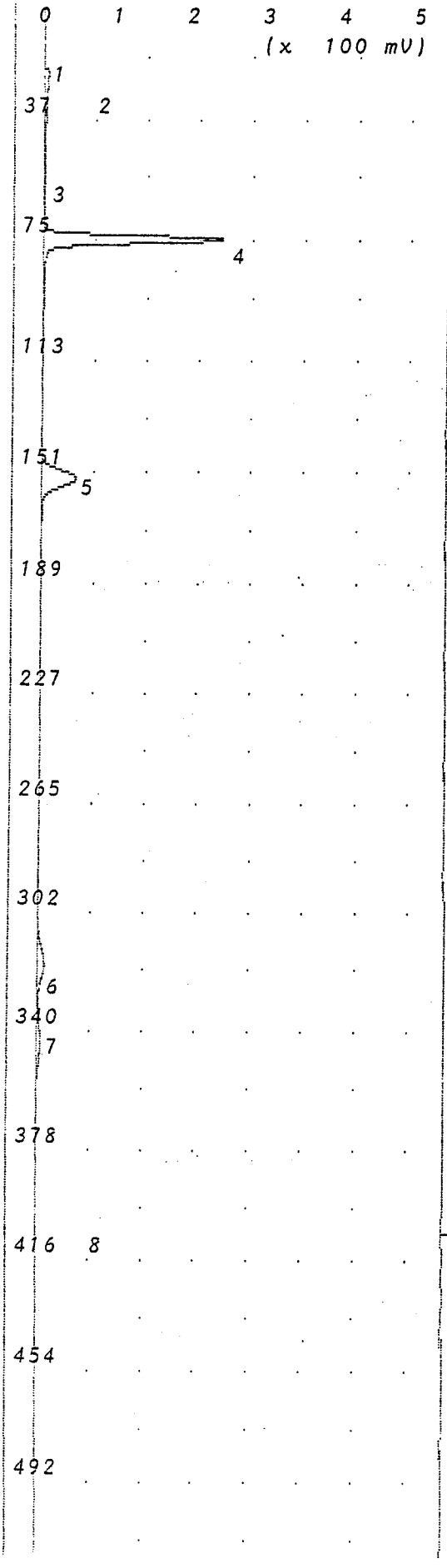
Fault: Calibrant 105+ GC Function Oct 27,94 14:39
-- Analysis No 14 -- Run at - Oct 27,94 14:27 -

Pk No	Name	Conc/Area		Alarm	Ret.Time	
1	Unknown	175.3	mVS	-No-	20.0	sec
2	Unknown	1.790	mVS	-No-	20.7	sec
3	Unknown	1.192	mVS	-No-	31.4	sec
4	Unknown	20.01	mVS	-No-	44.3	sec
5	Unknown	20.82	mVS	-No-	48.4	sec
6	Unknown	55.26	mVS	-No-	54.1	sec
7	Unknown	44.28	mVS	-No-	62.9	sec
8	Benzene	100.1	ppb	-No-	72.0	sec
9	Toluene	100.8	ppb	-No-	150.4	sec

- Detected 12 peaks. Use ↑ ↓ to scroll [535 sec]



Analysis #20 10S+ GC Function Analysis Report



Time Printed: Oct 27,94 15:57
Sample Time: Oct 27,94 15:49

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

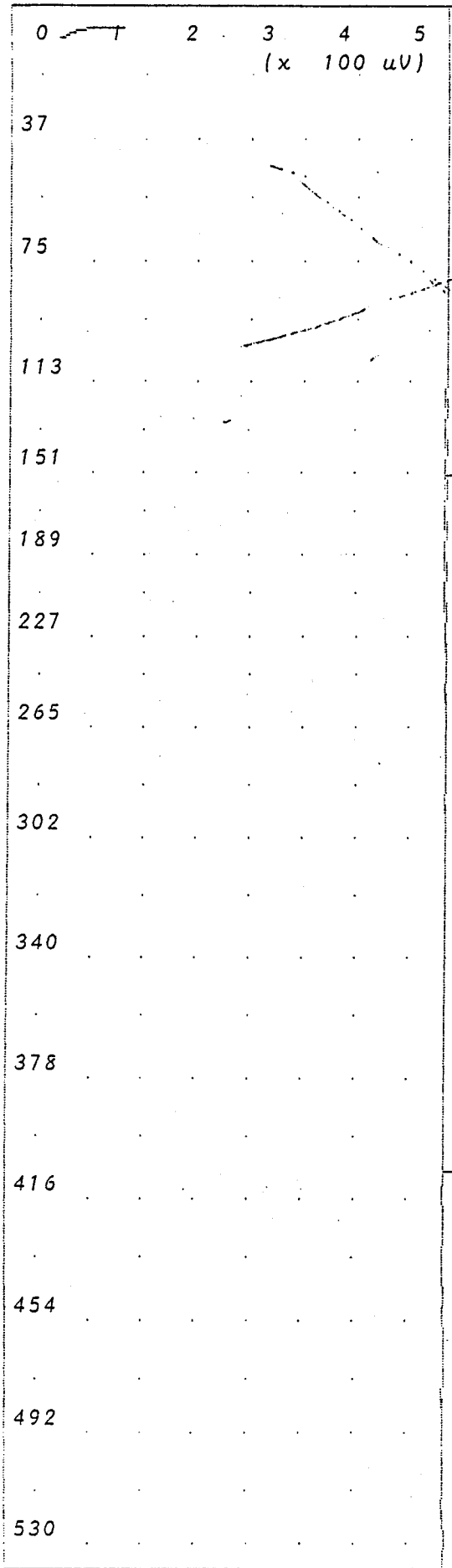
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	160.8	mVS	20.3
2	Unknown	0.674	mVS	29.3
3	Unknown	0.584	mVS	54.3
4	Benzene	85.97	ppb	72.9
5	Toluene	61.00	ppb	151.0
6	Ethylbenzene	101.6	ppb	316.8
7	MP Xylene	170.2	ppb	341.6
8	O Xylene	69.66	ppb	402.6

Notes

Mark Escobar
Billy Mitchell Air National Guard Base
100ppb BTEX Standard

Analysis #21 10S+ GC Function Analysis Report



Time Printed: Oct 27,94 16:00
Sample Time: Oct 27,94 16:00

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Anglysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

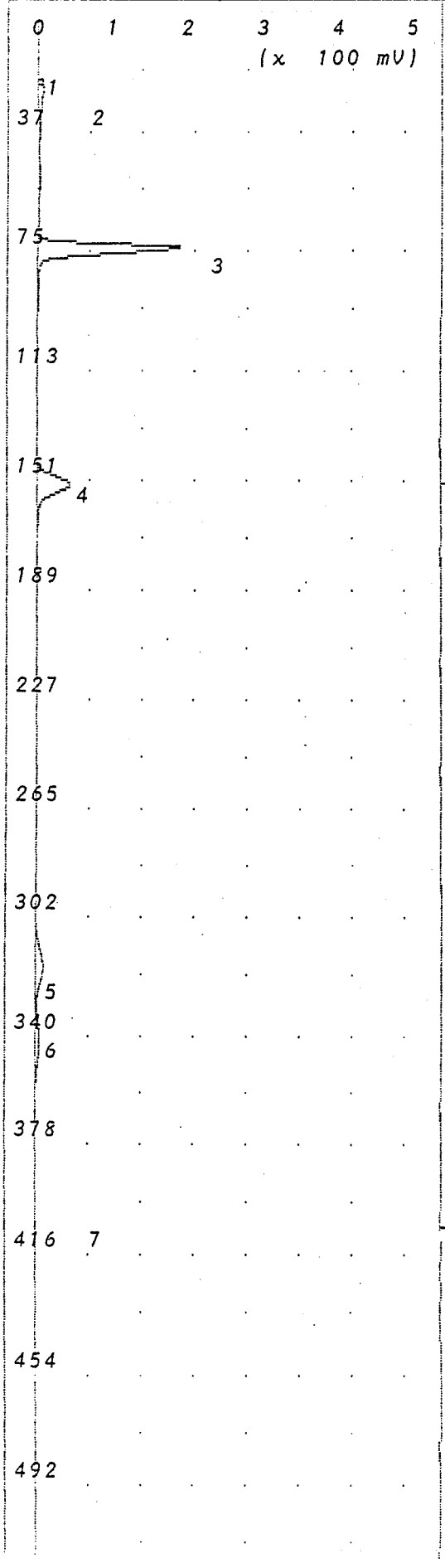
Peak Report

Pk	Compound Name	Area/Conc	R.T.

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
100ppb BTEX Standard

Analysis #22 10S+ GC Function Analysis Report



Time Printed: Oct 27,94 16:11
Sample Time: Oct 27,94 16:02

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

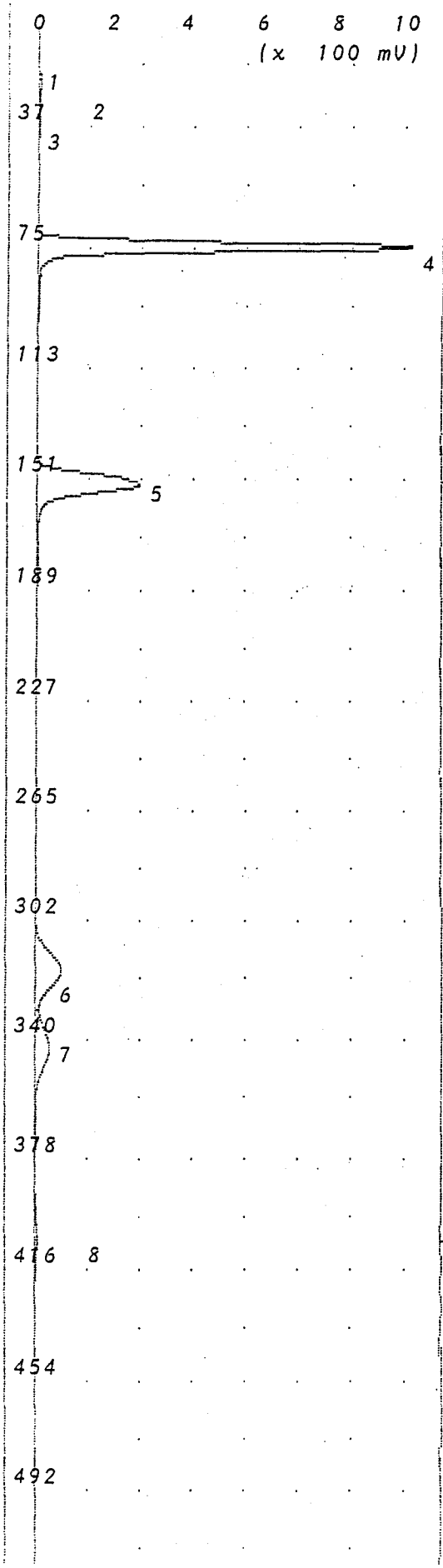
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	13.65	mVS	18.9
2	Unknown	98.93	mVS	21.5
3	Benzene	74.68	ppb	71.8
4	Toluene	57.42	ppb	150.4
5	Ethylbenzene	104.1	ppb	316.0
6	MP Xylene	173.4	ppb	341.0
7	O Xylene	77.94	ppb	402.0

Notes

Mark Escobar
Billy Mitchell Air National
Guard Base
100ppb BTEX Standard

Analysis #23 10S+ GC Function Analysis Report



Time Printed: Oct 27,94 16:23
Sample Time: Oct 27,94 16:14

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

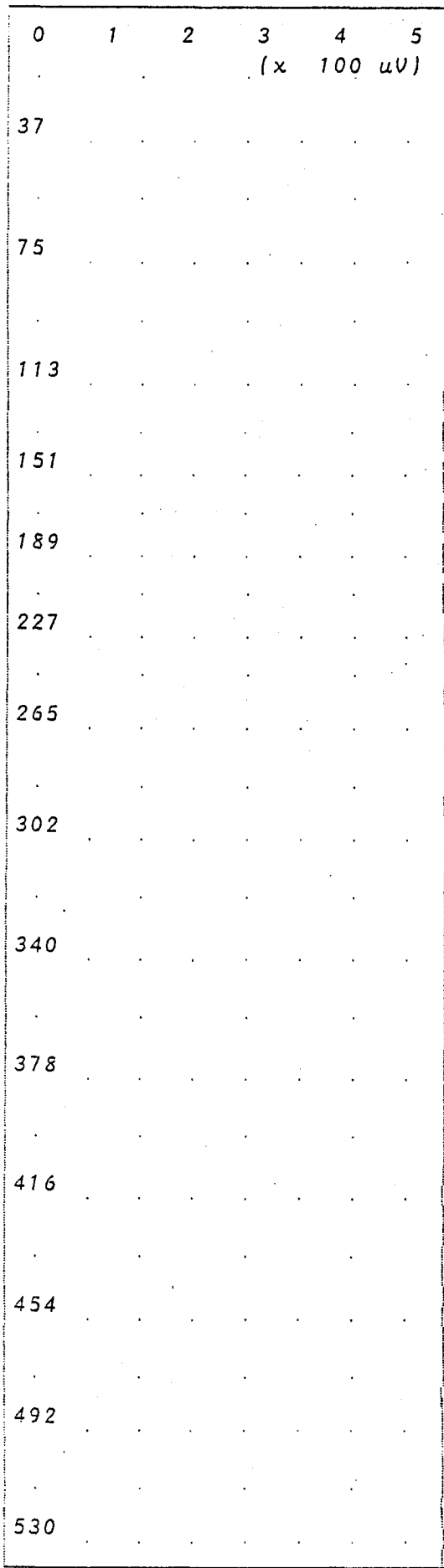
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	14.89 mVS	19.5
2	Unknown	45.65 mVS	21.3
3	Unknown	54.02 mVS	28.6
4	Benzene	1.258 ppm	72.8
5	Toluene	788.0 ppb	150.8
6	Ethylbenzene	489.2 ppb	316.0
7	MP Xylene	918.0 ppb	341.0
8	O Xylene	492.9 ppb	402.0

Notes

Mark Escobar
Billy Mitchell Air National Guard Base
1 ppm BTEX Standard

Analysis #26 10S+ GC Function Analysis Report



Time Printed: Oct 27,94 16:55
Sample Time: Oct 27,94 16:55

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	35	C
Max Gain	1000	
Analysis Time	530.0	sec

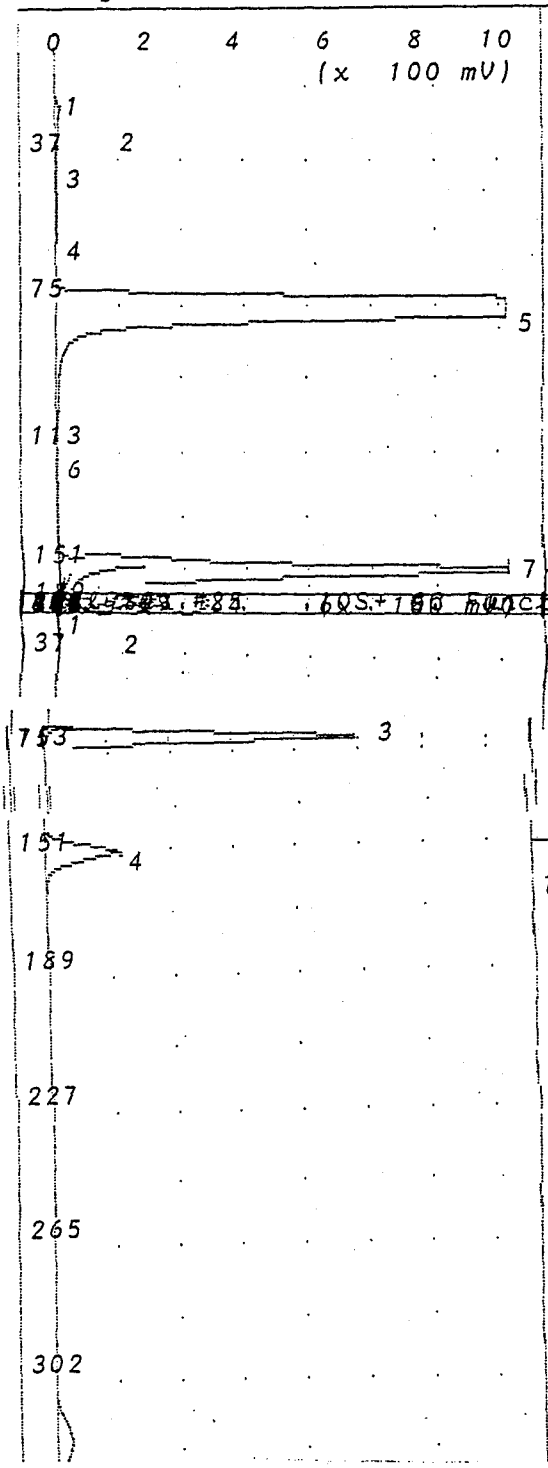
Peak Report

Pk	Compound Name	Area/Conc	R.T.

Notes

Mark Escobar
Billy Mitchell Air National Guard Base
1 ppm BTEX Standard Update

Analysis #24 10S+ GC Function Analysis Report



Time Printed: Oct 27,94 16:36
Sample Time: Oct 27,94 16:27

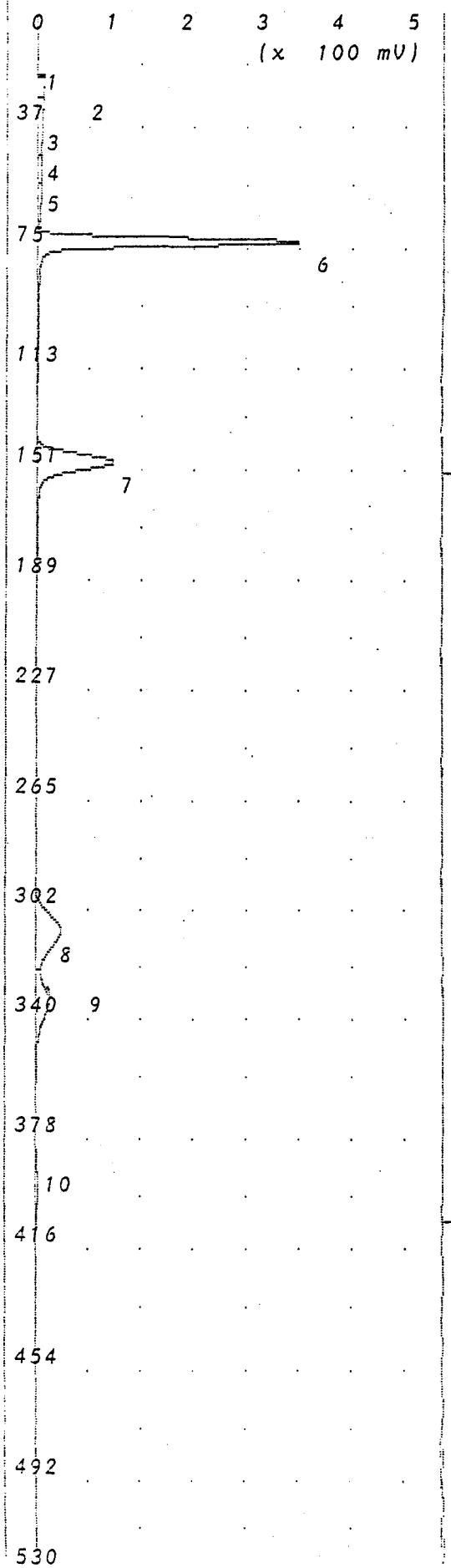
Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	78.39 mVS	19.0
2	Unknown	0.409 mVS	28.4
3	Benzene	504.5 ppb	72.5
4	Toluene	538.3 ppb	150.2
5	Ethylbenzene	478.2 ppb	316.0
6	MP Xylene	944.9 ppb	339.3
7	O Xylene	507.6 ppb	402.3

Analysis #1 10S+ GC Function Analysis Report



Time Printed: Oct 28,94 08:40
Sample Time: Oct 28,94 08:31

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	31	C
Max Gain	1000	
Analysis Time	530.0	sec

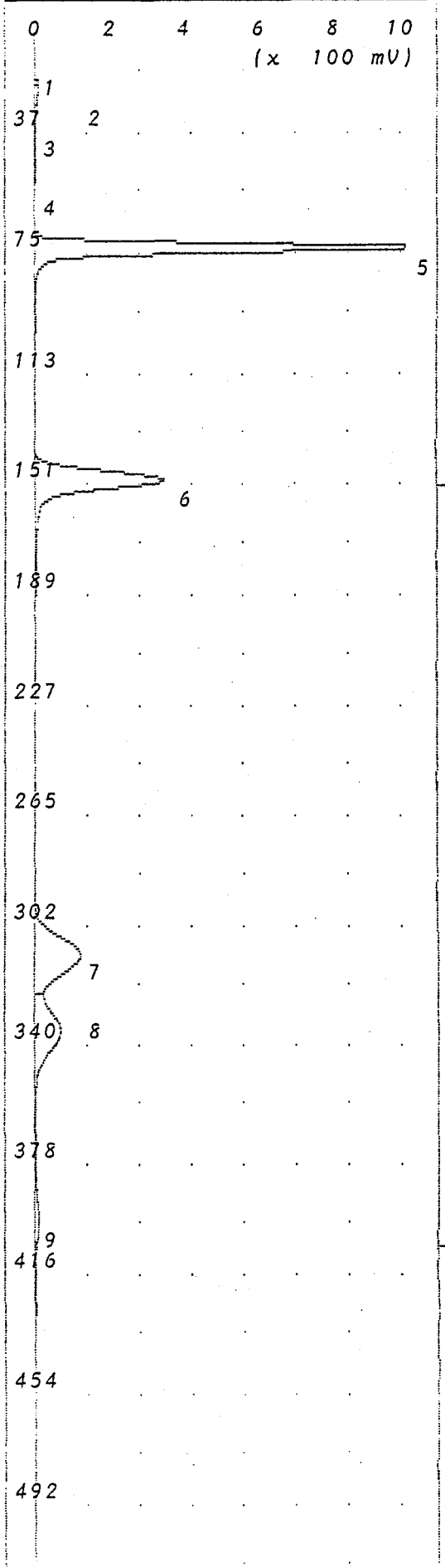
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	20.43	mVS	19.4
2	Unknown	63.63	mVS	21.0
3	Unknown	135.6	mVS	28.0
4	Unknown	58.09	mVS	45.2
5	Unknown	63.99	mVS	54.3
6	Unknown	1.238	VSec	70.9
7	Unknown	759.8	mVS	146.6
8	Unknown	468.4	mVS	307.2
9	Unknown	351.4	mVS	329.0
10	Unknown	139.9	mVS	391.0

Notes

Billy Mitchell Air
National Guard Base
Mark Escobar
100 ppb BTEX Standard

Analysis #2 10S+ GC Function Analysis Report



Time Printed: Oct 28,94 08:57
Sample Time: Oct 28,94 08:48

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	32	C
Max Gain	1000	
Analysis Time	530.0	sec

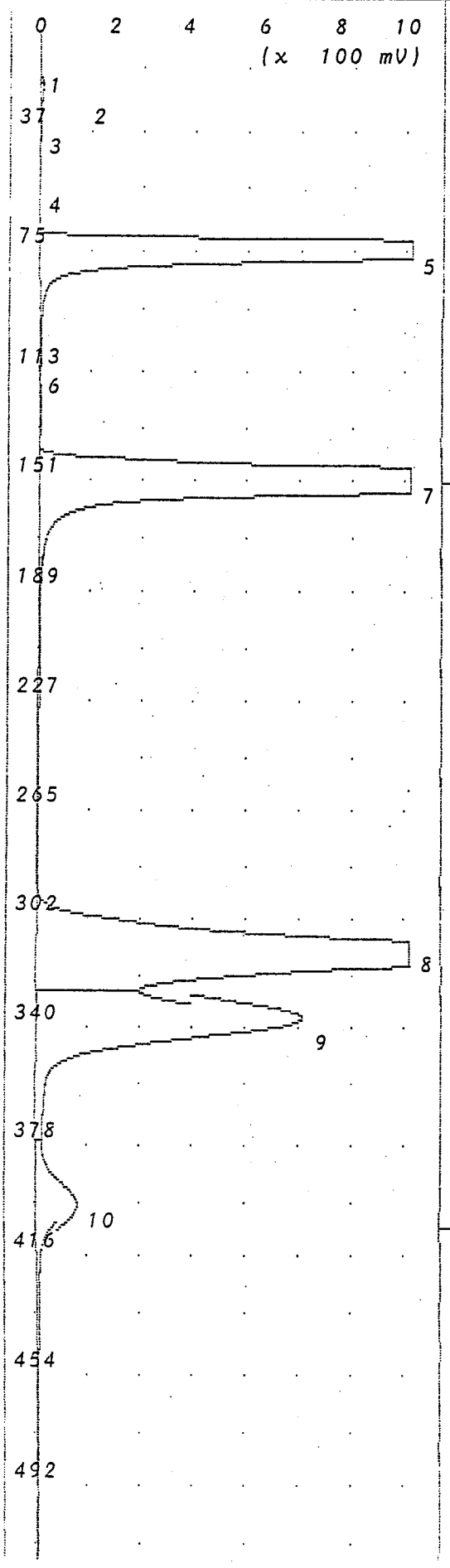
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	20.67	mVS	19.6
2	Unknown	63.26	mVS	21.0
3	Unknown	71.83	mVS	28.0
4	Unknown	0.477	mVS	54.0
5	Benzene	331.0	ppb	71.6
6	Toluene	337.0	ppb	147.8
7	Ethylbenzene	370.1	ppb	309.6
8	M/P Xylene	345.6	ppb	333.6
9	O-Xylene	257.4	ppb	394.0

Notes

Billy Mitchell Air
National Guard Base
Mark Escobar
~~100~~ ppm BTEX Standard
MS

Analysis #3 10S+ GC Function Analysis Report



Time Printed: Oct 28,94 09:10
Sample Time: Oct 28,94 09:01

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	1.000	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	32	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	17.53	mVS	19.5
2	Unknown	142.5	mVS	21.5
3	Unknown	1.705	mVS	28.4
4	Unknown	0.650	mVS	52.8
5	Benzene	5.746	ppm	72.8
6	Unknown	3.171	mVS	108.6
7	Toluene	8.669	ppm	148.8
8	Ethylbenzene	13.68	ppm	311.4
9	M/P Xylene	26.26	ppm	334.9
10	O-Xylene	10.08	ppm	395.0

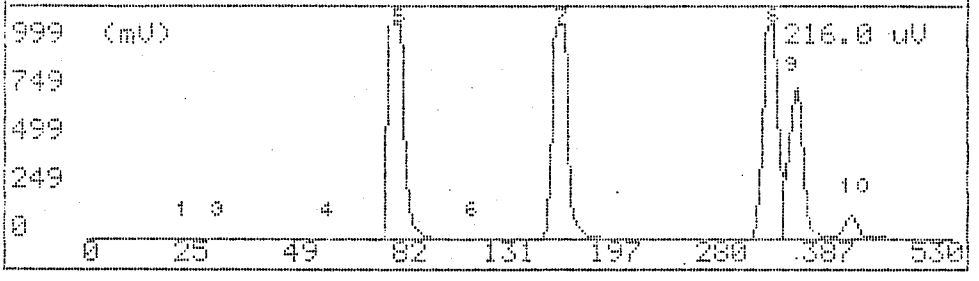
Notes

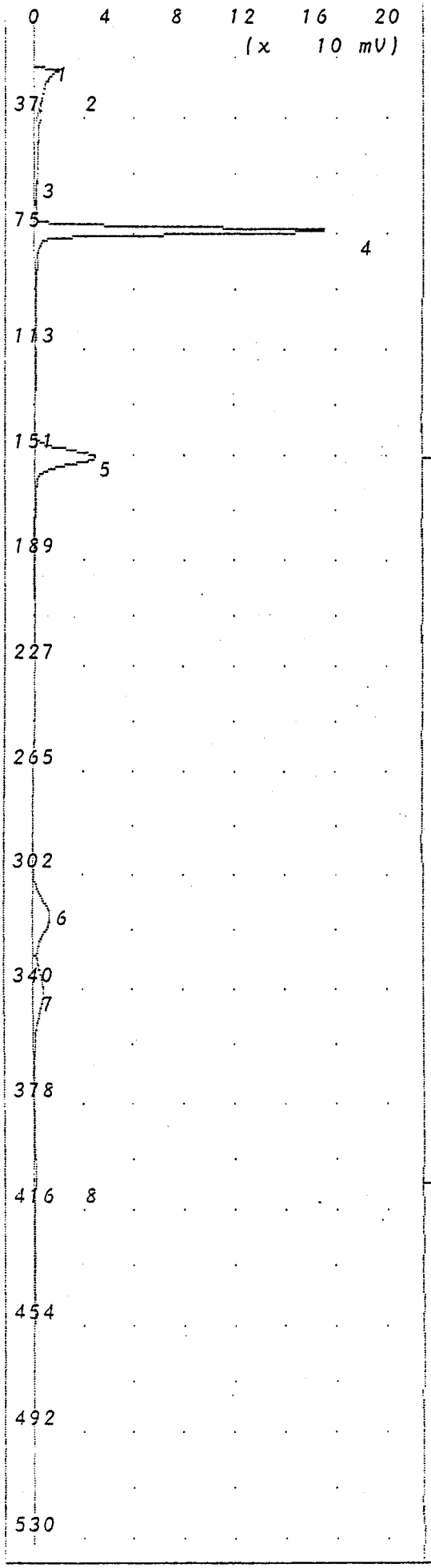
Billy Mitchell Air
National Guard Base
Mark Escobar
10 ppm BTEX Standard

G.C. Ready 108+ GC Function Oct 28,94 09:14
-- Analysis No 3 -- Run at - Oct 28,94 09:01 -

Pk No	Name	Conc/Area		Alarm	Ret.Time	
1	Unknown	17.53	mVS	-No-	19.5	sec
2	Unknown	142.5	mVS	-No-	21.5	sec
3	Unknown	1.705	mVS	-No-	28.4	sec
4	Unknown	0.650	mVS	-No-	52.0	sec
5	Benzene	10.01	ppm	-No-	72.0	sec
6	Unknown	3.171	mVS	-No-	108.6	sec
7	Toluene	10.02	ppm	-No-	148.0	sec
8	Ethylbenzene	10.00	ppm	-No-	311.4	sec
9	M/P Xylene	10.00	ppm	-No-	334.9	sec

- Detected 10 peaks. Use ↑ ↓ to scroll [535 sec]





Time Printed: Oct 28,94 10:45
Sample Time: Oct 28,94 10:29

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	200.0	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	33	C
Max Gain	1000	
Analysis Time	530.0	sec

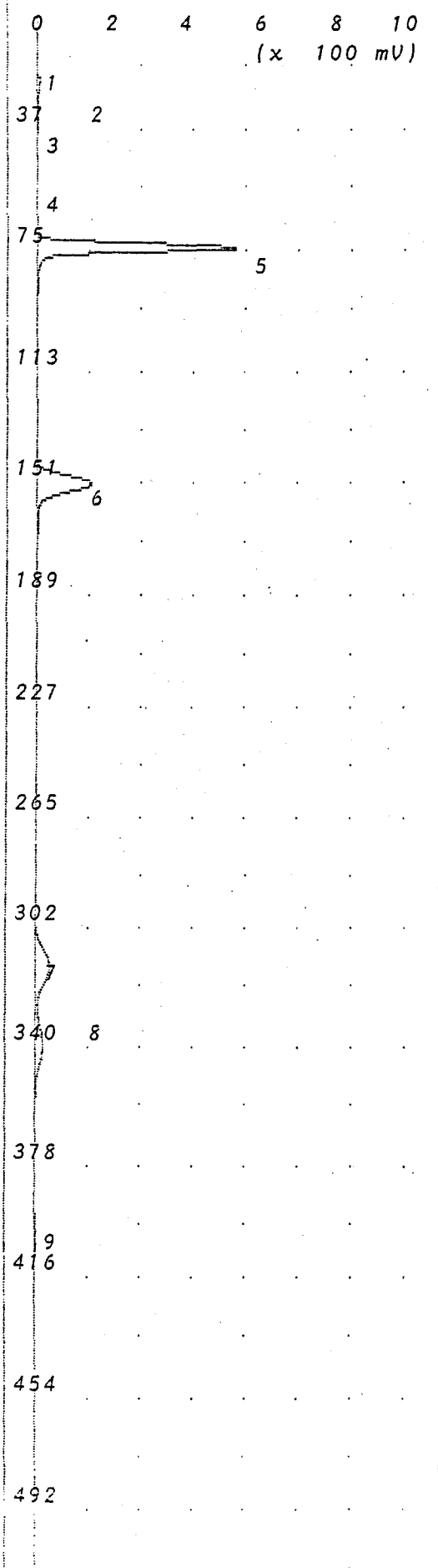
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	170.5	mVS	19.8
2	Unknown	0.346	mVS	28.8
3	Unknown	0.671	mVS	54.3
4	Unknown	500.8	mVS	72.2
5	Unknown	222.9	mVS	149.8
6	Unknown	134.4	mVS	314.4
7	Unknown	118.1	mVS	339.3
8	Unknown	47.56	mVS	400.6

Notes

Mark Escobar
Billy Mitchell Air
National Guard Base
100 ppb BTEX Standard

Analysis #2 10S+ GC Function Analysis Report



Time Printed: Oct 28,94 10:56
Sample Time: Oct 28,94 10:47

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	200.0	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

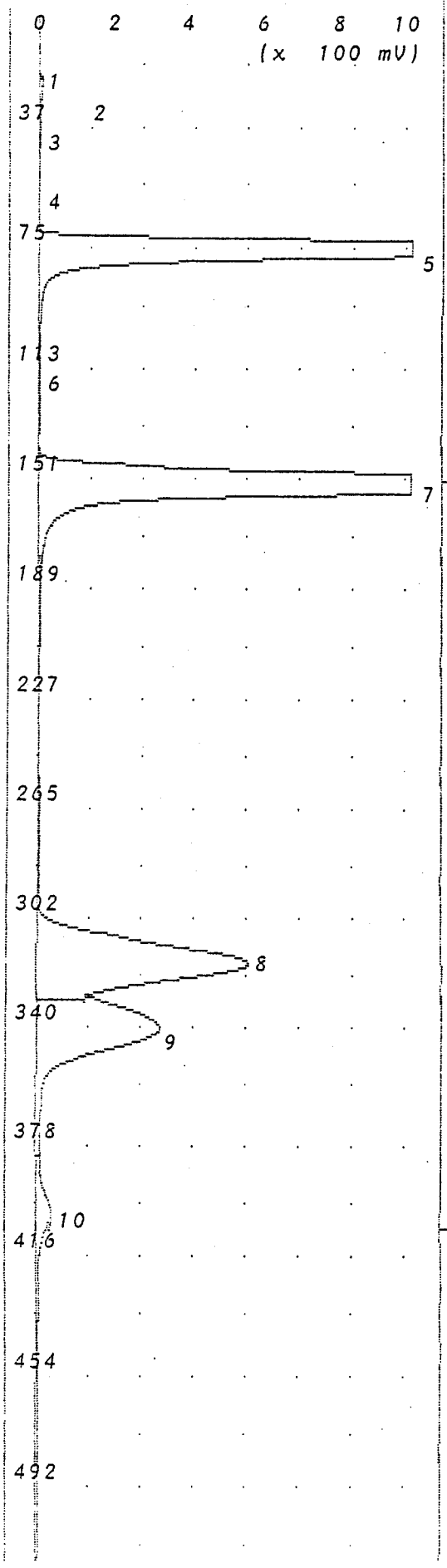
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	0.497	mVS	14.3
2	Unknown	164.1	mVS	20.0
3	Unknown	0.806	mVS	28.8
4	Unknown	0.770	mVS	54.4
5	Benzene	375.1	ppb	72.5
6	Toluene	464.7	ppb	149.4
7	Ethylbenzene	379.0	ppb	312.8
8	MP Xylene	641.8	ppb	333.6
9	Unknown	123.3	mVS	398.0

Notes

Mark Escobar
Billy Mitchell Air
National Guard Base
1 ppm BTEX Standard

Analysis #3 10S+ GC Function Analysis Report



Time Printed: Oct 28,94 11:08
Sample Time: Oct 28,94 10:59

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	200.0	mVSec
Min Height	0.100	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	21.11 mVS	20.0
2	Unknown	59.64 mVS	21.8
3	Unknown	84.89 mVS	28.8
4	Unknown	16.20 mVS	53.8
5	Benzene	9.919 ppm	73.4
6	Unknown	1.659 mVS	109.2
7	Toluene	15.12 ppm	150.4
8	Ethylbenzene	19.58 ppm	314.6
9	MP Xylene	39.83 ppm	338.6
10	O Xylene	12.81 ppm	398.6

Notes

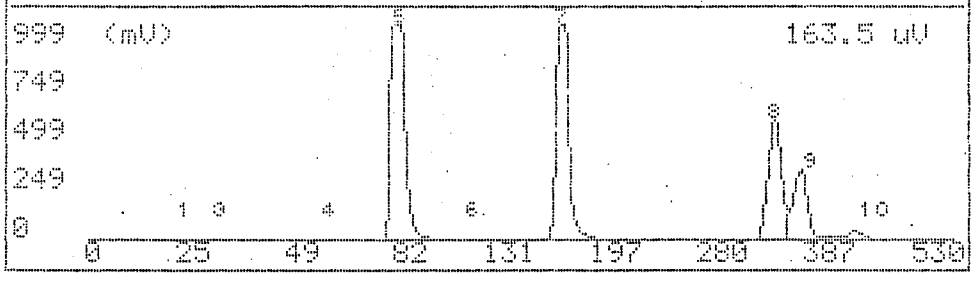
Mark Escobar
Billy Mitchell Air
National Guard Base
10 ppm BTEX Standard

G.C. Ready 10S+ GC Function Oct 28,94 11:12

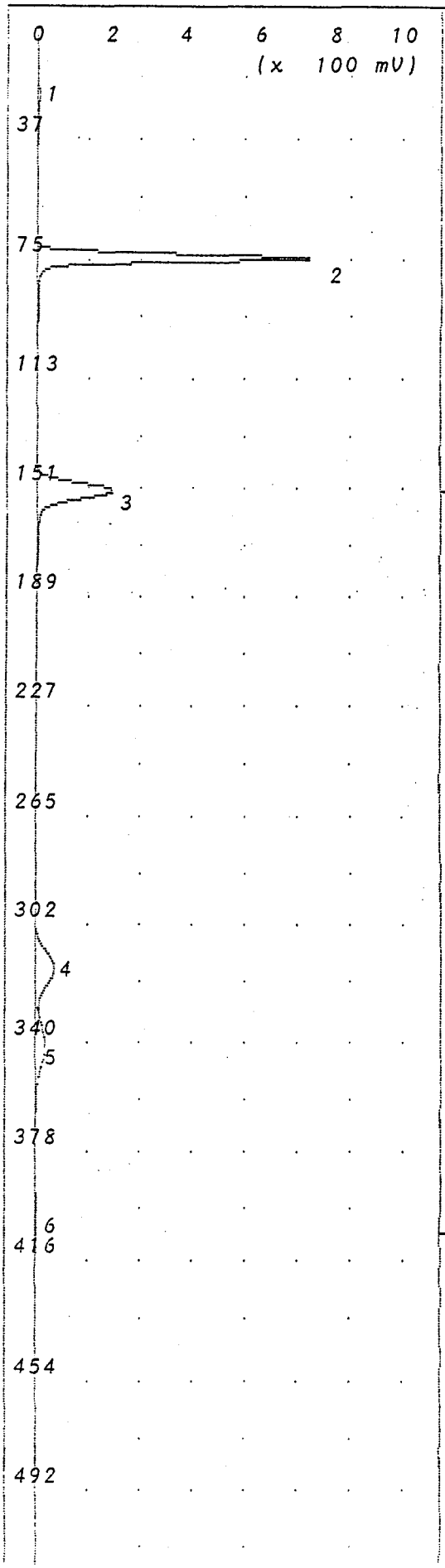
-- Analysis No 3 -- Run at - Oct 28,94 10:59 -

Pk No	Name	Conc/Area		Alarm	Ret.Time	
1	Unknown	21.11	mVS	-No-	20.0	sec
2	Unknown	59.64	mVS	-No-	21.0	sec
3	Unknown	84.09	mVS	-No-	28.0	sec
4	Unknown	16.20	mVS	-No-	53.0	sec
5	Benzene	10.00	ppm	-No-	73.4	sec
6	Unknown	1.659	mVS	-No-	100.2	sec
7	Toluene	10.00	ppm	-No-	158.4	sec
8	Ethylbenzene	10.00	ppm	-No-	314.6	sec
9	MP Xylene	20.00	ppm	-No-	338.6	sec

- Detected 10 peaks. Use ↑ ↓ to scroll [535 sec]



Analysis #10 10S+ GC Function Analysis Report



Time Printed: Oct 28,94 12:34
Sample Time: Oct 28,94 12:25

Method

Slope Up	0.500	mV/Sec
Slope Down	0.500	mV/Sec
Min Area	200.0	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

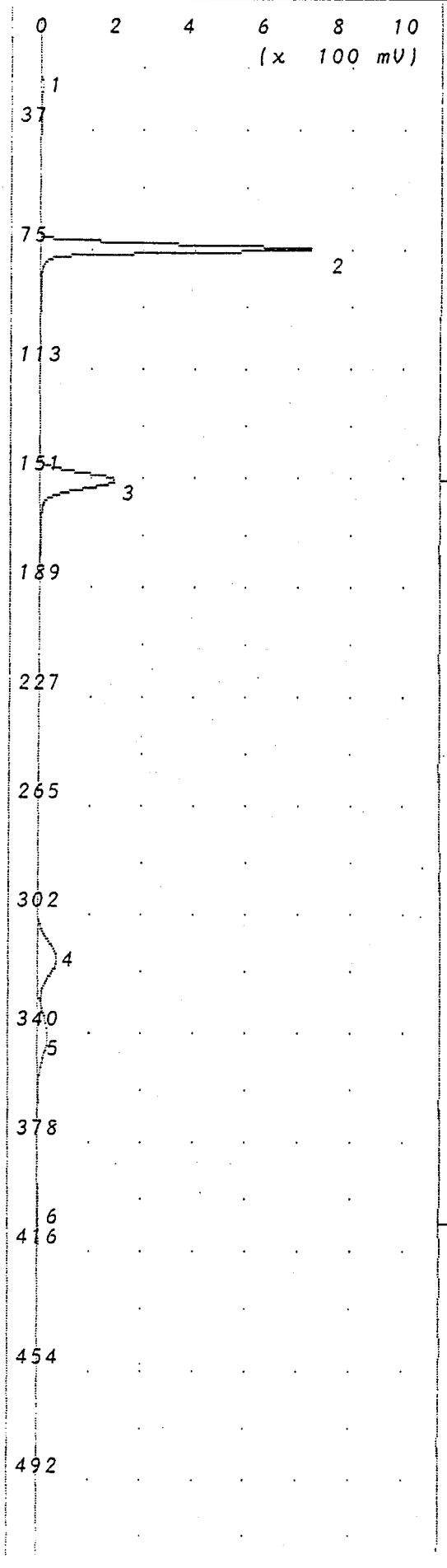
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	169.3 mVS	19.8
2	Benzene	1.414 ppm	72.6
3	Toluene	1.327 ppm	148.8
4	Ethylbenzene	1.233 ppm	314.6
5	MP Xylene	2.446 ppm	339.3
6	Unknown	178.1 mVS	400.0

Notes

Mark Escobar
Billy Mitchell Air
National Guard Base
1 ppm BTEX Standard

Analysis #10 10S+ GC Function Analysis Report



Time Printed: Oct 28,94 12:37
Sample Time: Oct 28,94 12:25

Method

Slope Up	0.500	mV/Sec
Slope Down	0.500	mV/Sec
Min Area	200.0	mVSec
Min Height	1.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	10	ml/min
B/F Flow	10	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

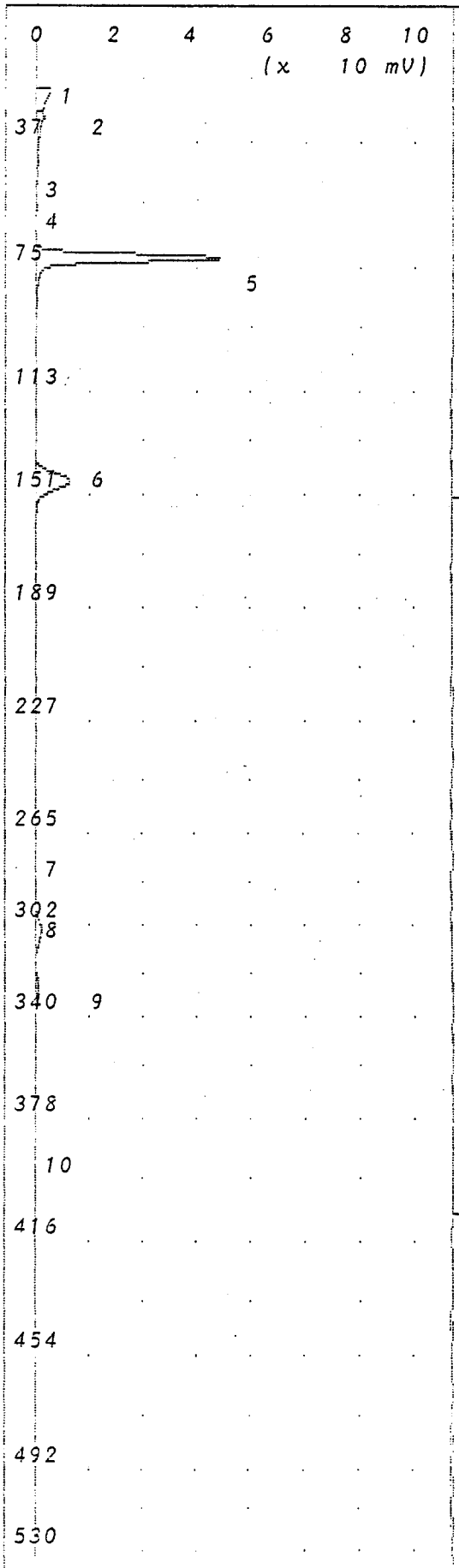
Peak Report

Pk	Compound Name	Area/Conc	R.T.
1	Unknown	169.5 mVS	19.8
2	Benzene	1.000 ppm	72.6
3	Toluene	1.001 ppm	148.8
4	Ethylbenzene	1.000 ppm	314.6
5	MP Xylene	2.002 ppm	339.3
6	Unknown	180.7 mVS	400.0

Notes

Mark Escobar
Billy Mitchell Air
National Guard Base
1 ppm BTEX Standard

Analysis #1 10S+ GC Function Analysis Report



Time Printed: Oct 29,94 08:23
Sample Time: Oct 29,94 08:14

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	29	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

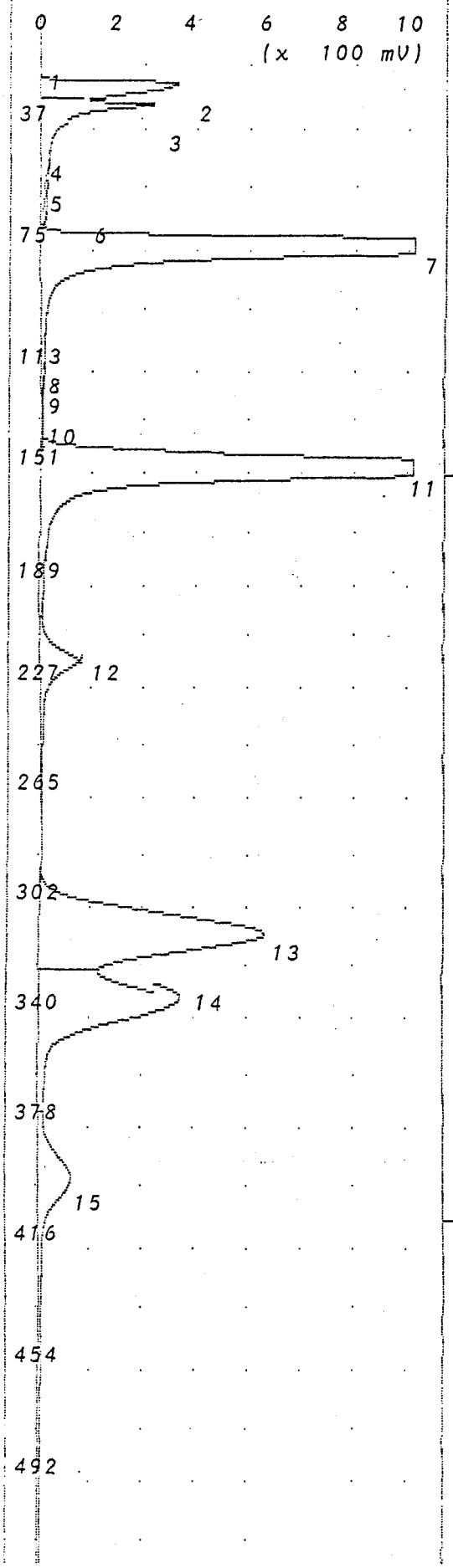
Pk	Compound Name	Area/Conc		R.T.
1	Unknown	24.29	mVS	18.9
2	Unknown	13.84	mVS	27.9
3	Unknown	0.026	mVS	44.8
4	Unknown	1.430	mVS	54.8
5	Unknown	142.6	mVS	70.1
6	Unknown	65.72	mVS	145.0
7	Unknown	1.556	mVS	269.3
8	Unknown	37.14	mVS	302.4
9	Unknown	34.15	mVS	327.2
10	Unknown	10.41	mVS	387.6

Notes

Billy Mitchell Air National
Guard Base

Mark Escobar
100 ppb BTEX Standard

Analysis #2 10S+ GC Function Analysis Report



Time Printed: Oct 29,94 08:41
Sample Time: Oct 29,94 08:32

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	31	C
Max Gain	1000	
Analysis Time	530.0	sec

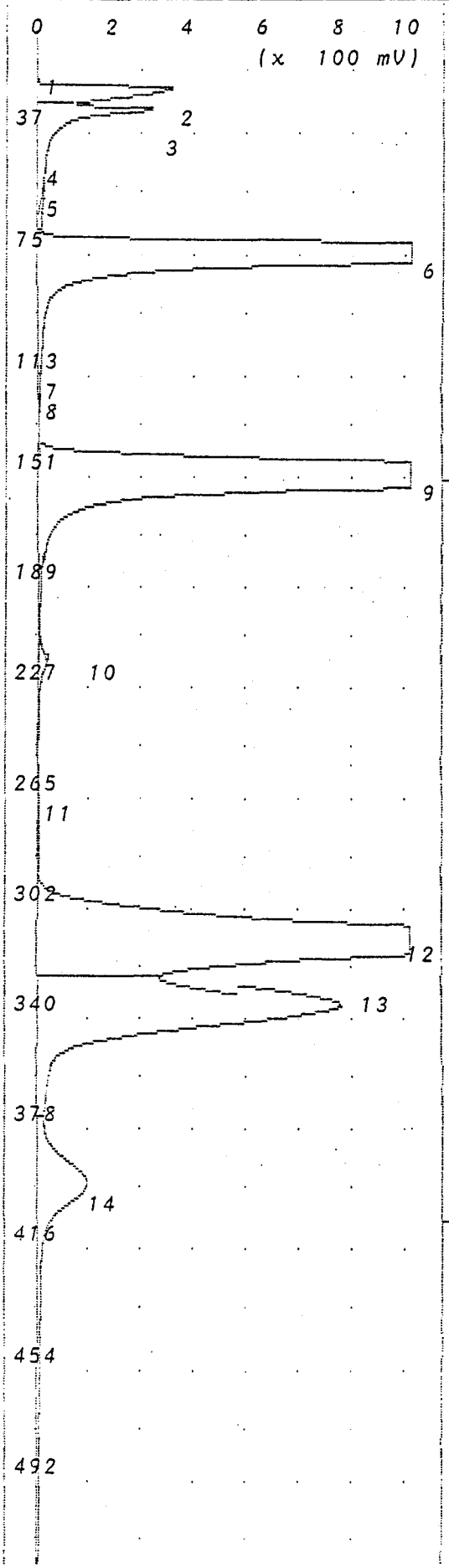
Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	7.424	mVS	18.8
2	Unknown	1.786	VSec	21.1
3	Unknown	1.840	VSec	28.0
4	Unknown	2.289	mVS	45.6
5	Unknown	4.771	mVS	52.4
6	Unknown	2.301	mVS	60.6
7	Benzene	12.07	ppm	71.8
8	Unknown	3.552	mVS	108.5
9	Unknown	7.691	mVS	113.8
10	Unknown	0.053	mVS	134.8
11	Toluene	19.67	ppm	147.4
12	Unknown	1.774	VSec	214.6
13	Ethylbenzene	24.40	ppm	308.5
14	MP Xylene	40.05	ppm	332.2
15	O Xylene	20.60	ppm	392.0

Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
1 ppm BTEX Standard

Analysis #3 10S+ GC Function Analysis Report



Time Printed: Oct 29,94 08:56
Sample Time: Oct 29,94 08:47

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	32	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	11.10	mVS	19.4
2	Unknown	1.608	VSec	21.3
3	Unknown	1.924	VSec	28.1
4	Unknown	3.929	mVS	45.8
5	Unknown	1.025	mVS	52.0
6	Benzene	1.280	ppm	72.5
7	Unknown	7.187	mVS	108.6
8	Unknown	1.461	mVS	114.2
9	Toluene	1.510	ppm	148.2
10	Unknown	252.0	mVS	215.0
11	Unknown	8.763	mVS	262.6
12	Ethylbenzene	2.279	ppm	310.1
13	MP Xylene	3.862	ppm	333.6
14	O Xylene	1.426	ppm	393.0

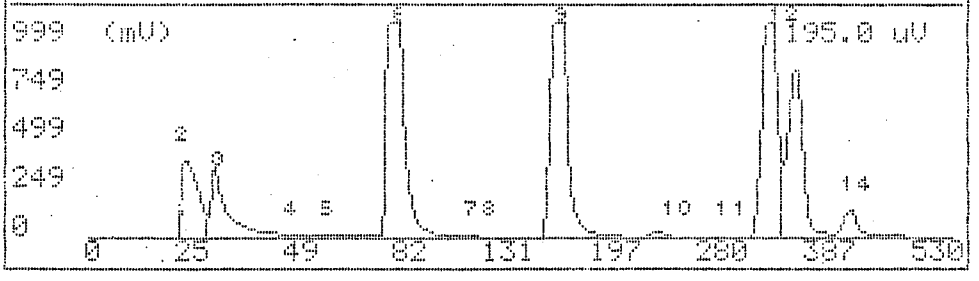
Notes

Billy Mitchell Air National
Guard Base
Mark Escobar
10 ppm BTEX Standard

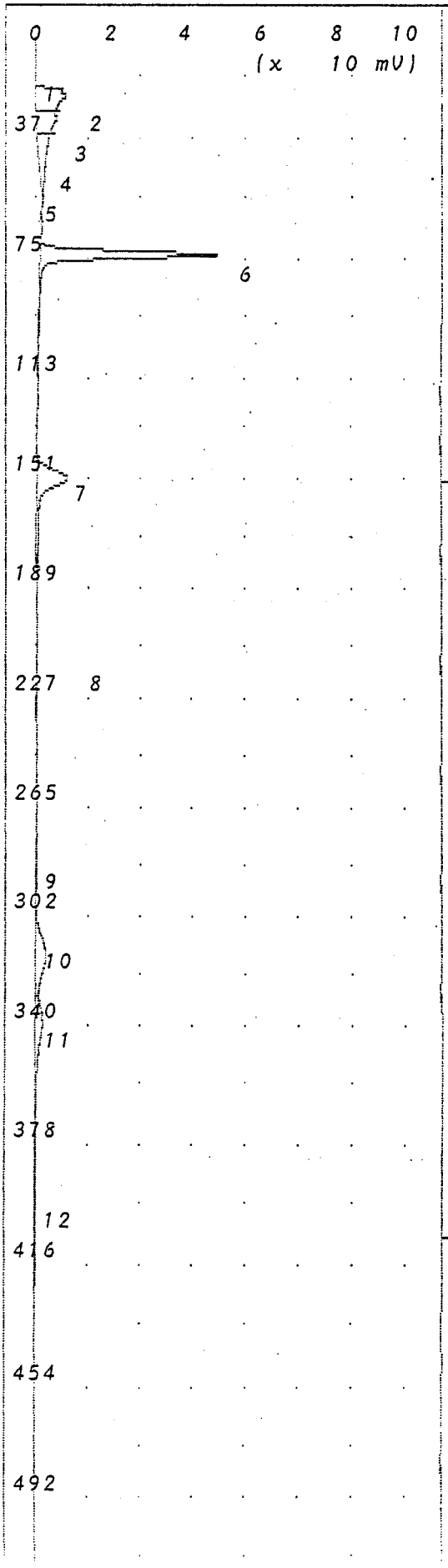
G.C. Ready 10S+ GC Function Oct 29,94 09:01
-- Analysis No 3 -- Run at - Oct 29,94 08:47 -

Pk No	Name	Conc/Area		Alarm	Ret.Time	
6	Benzene	10.00	ppm	-No-	72.5	sec
7	Unknown	7.187	mVS	-No-	108.6	sec
8	Unknown	1.461	mVS	-No-	114.2	sec
9	Toluene	10.01	ppm	-No-	148.2	sec
10	Unknown	252.0	mVS	-No-	215.0	sec
11	Unknown	8.763	mVS	-No-	262.6	sec
12	Ethylbenzene	10.00	ppm	-No-	310.1	sec
13	MP Xylene	10.00	ppm	-No-	333.6	sec
14	O Xylene	10.13	ppm	-No-	392.0	sec

- Detected 14 peaks. Use ↑ ↓ to scroll [535 sec]



Analysis #10 10S+ GC Function Analysis Report



Time Printed:	Oct 29,94	10:18
Sample Time:	Oct 29,94	10:09

Method

Slope Up	0.500	mV/Sec
Slope Down	1.500	mV/Sec
Min Area	0.000	mVSec
Min Height	0.000	mV
Analysis Delay	0.0	sec
Window Percent	10.0	%
Det Flow	12	ml/min
B/F Flow	12	ml/min
Aux Flow	0	ml/min
Oven Temp	40	C
Amb Temp	34	C
Max Gain	1000	
Analysis Time	530.0	sec

Peak Report

Pk	Compound Name	Area/Conc		R.T.
1	Unknown	0.105	mVS	17.3
2	Unknown	11.27	mVS	19.8
3	Unknown	44.58	mVS	21.7
4	Unknown	56.91	mVS	28.9
5	Unknown	0.100	mVS	54.0
6	Benzene	93.35	ppb	72.0
7	Toluene	85.43	ppb	149.0
8	Unknown	0.981	mVS	218.2
9	Unknown	1.338	mVS	278.4
10	Ethylbenzene	100.0	ppb	313.3
11	MP Xylene	200.3	ppb	334.4
12	O Xylene	73.73	ppb	398.6

Notes

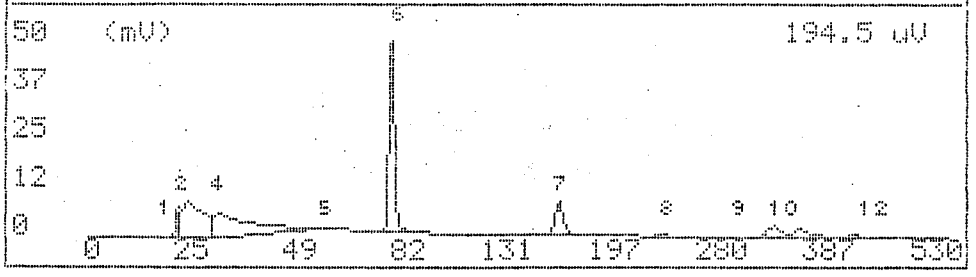
Billy Mitchell Air National Guard Base
Mark Escobar
100 ppb BTEX Standard

G.C. Ready 10S+ GC Function Oct 29,94 10:21

-- Analysis No 10 -- Run at - Oct 29,94 10:09 -

Pk No	Name	Conc/Area		Alarm	Ret.Time	
1	Unknown	0.105	mVS	-No-	17.3	sec
2	Unknown	11.27	mVS	-No-	19.3	sec
3	Unknown	44.58	mVS	-No-	21.7	sec
4	Unknown	56.91	mVS	-No-	28.9	sec
5	Unknown	0.100	mVS	-No-	54.0	sec
6	Benzene	99.99	ppb	-No-	72.0	sec
7	Toluene	100.0	ppb	-No-	149.0	sec
8	Unknown	0.981	mVS	-No-	210.2	sec
9	Unknown	1.338	mVS	-No-	278.4	sec

- Detected 12 peaks. Use + + to scroll [535 secl



APPENDIX C

WELL CONSTRUCTION DIAGRAMS

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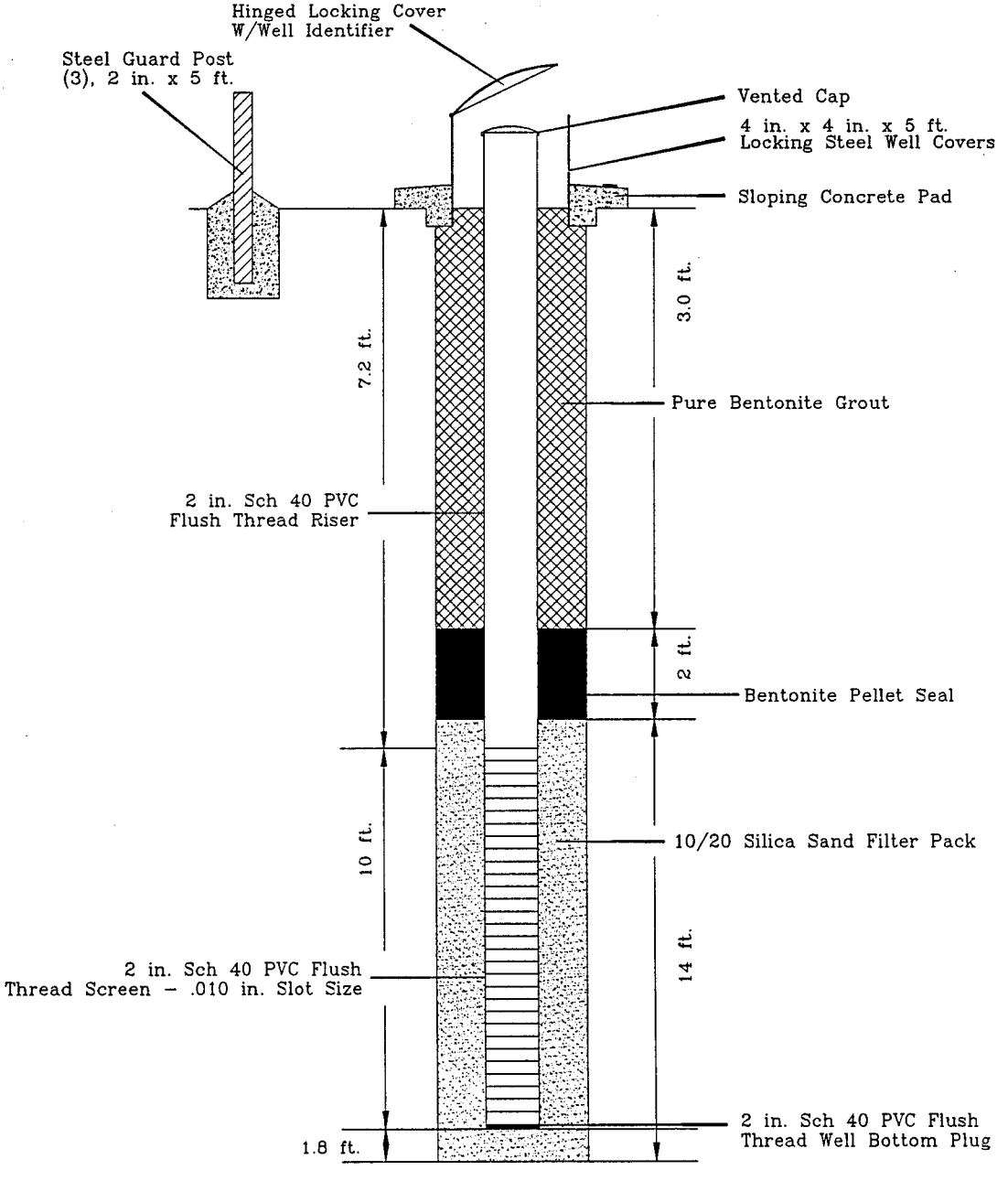
Project:	BILLY MITCHELL	Date Installed:	11/04/94
Town/City:	MILWAUKEE	Drilling Contractor:	OSI, ENV. INC.
County:	MILWAUKEE State: WISCONSIN	Drilling Method:	HOLLOW-STEM AUGER
TOC Elev:	675.17 FT.	Borehole Diameter:	8 INCH
Ground Elev.:	672.70 FT.	Development Technique:	BAILING
Water Level:	6.24 FT FROM TOC		
Total Well Depth:	19 FT.		Not To Scale

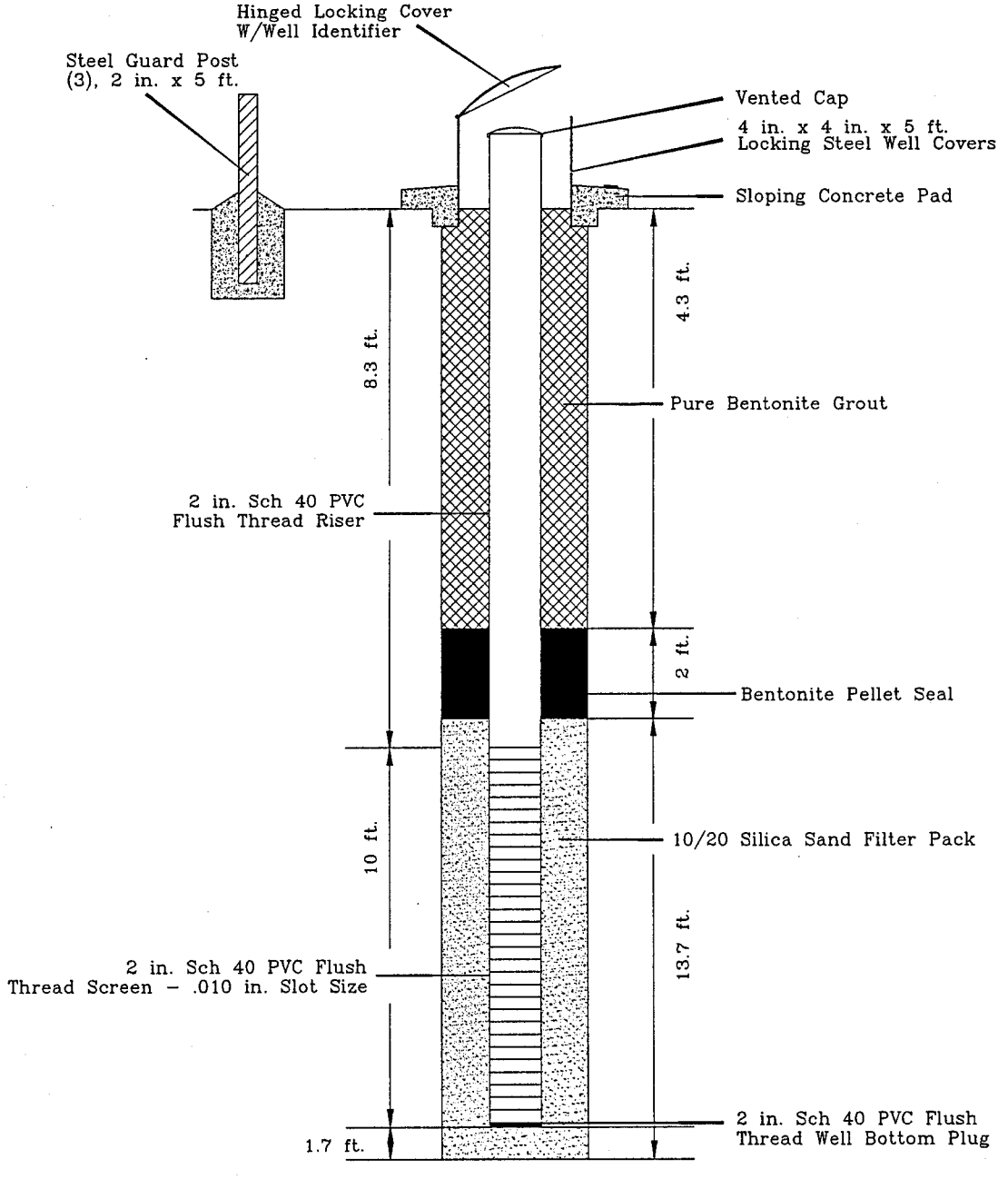


MONITORING WELL CONSTRUCTION LOG
WELL NO. 04-001MW

OPTECH
OPERATIONAL TECHNOLOGIES CORPORATION

FEBRUARY 1995 BILLY\04-001MW

Project:	BILLY MITCHELL	Date Installed:	11/04/94
Town/City:	MILWAUKEE	Drilling Contractor:	OSI, ENV. INC.
County:	MILWAUKEE State: WISCONSIN	Drilling Method:	HOLLOW-STEM AUGER
TOC Elev:	672.23 FT.	Borehole Diameter:	8 INCH
Ground Elev.:	670.80 FT.	Development Technique:	BAILING
Water Level:	7.42 FT. FROM TOC		
Total Well Depth:	20 FT.		Not To Scale

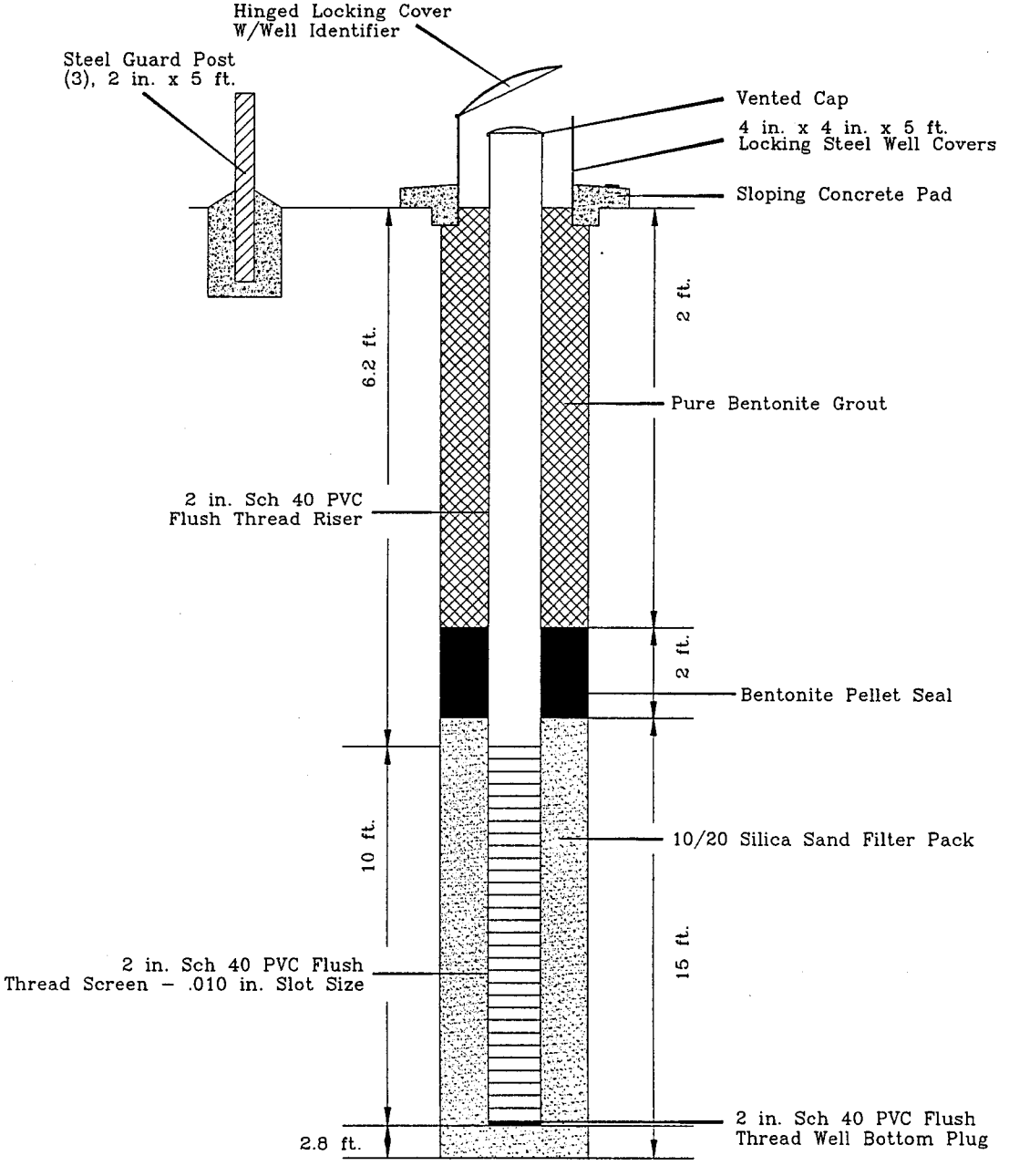


MONITORING WELL CONSTRUCTION LOG
WELL NO. 04-002MW

OPTECH
OPERATIONAL TECHNOLOGIES CORPORATION

FEBRUARY 1995 BILLY\04-002MW

Project:	BILLY MITCHELL	Date Installed:	11/04/94
Town/City:	MILWAUKEE	Drilling Contractor:	OSI, ENV. INC.
County:	MILWAUKEE State: WISCONSIN	Drilling Method:	HOLLOW-STEM AUGER
TOC Elev:	673.64 FT.	Borehole Diameter:	8 INCH
Ground Elev.:	670.60 FT.	Development Technique:	BAILING
Water Level:	5.78 FT. FROM TOC		
Total Well Depth:	19 FT.		Not To Scale

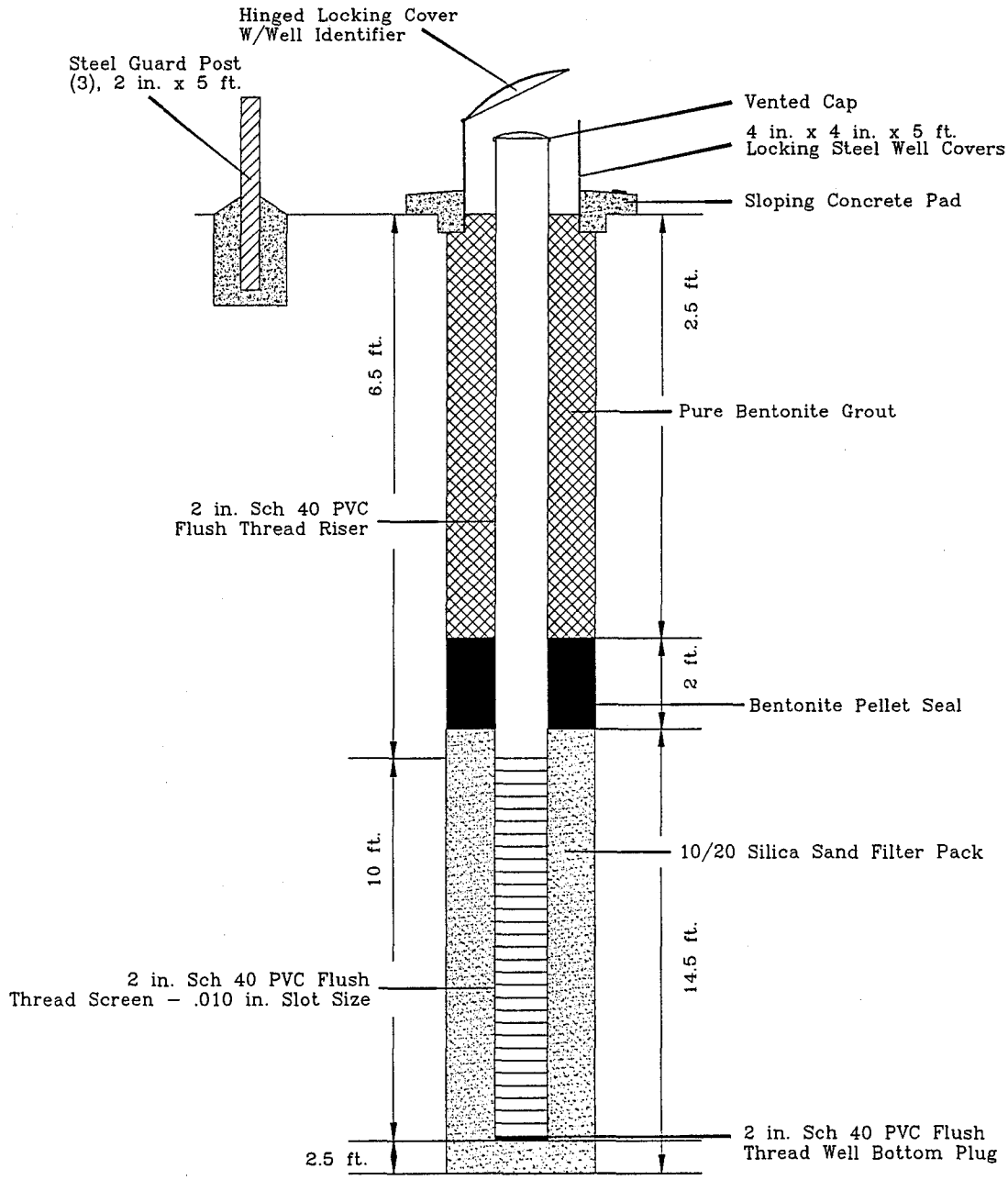


MONITORING WELL CONSTRUCTION LOG
WELL NO. 04-003MW

OPTECH
OPERATIONAL TECHNOLOGIES CORPORATION

FEBRUARY 1995 BILLY\04-003MW

Project:	BILLY MITCHELL	Date Installed:	11/04/94
Town/City:	MILWAUKEE	Drilling Contractor:	OSI, ENV. INC.
County:	MILWAUKEE State: WISCONSIN	Drilling Method:	HOLLOW-STEM AUGER
TOC Elev:	675.96 FT.	Borehole Diameter:	8 INCH
Ground Elev.:	673.56 FT.	Development Technique:	BAILING
Water Level:	7.21 FT. FROM TOC		
Total Well Depth:	19 FT.		Not To Scale

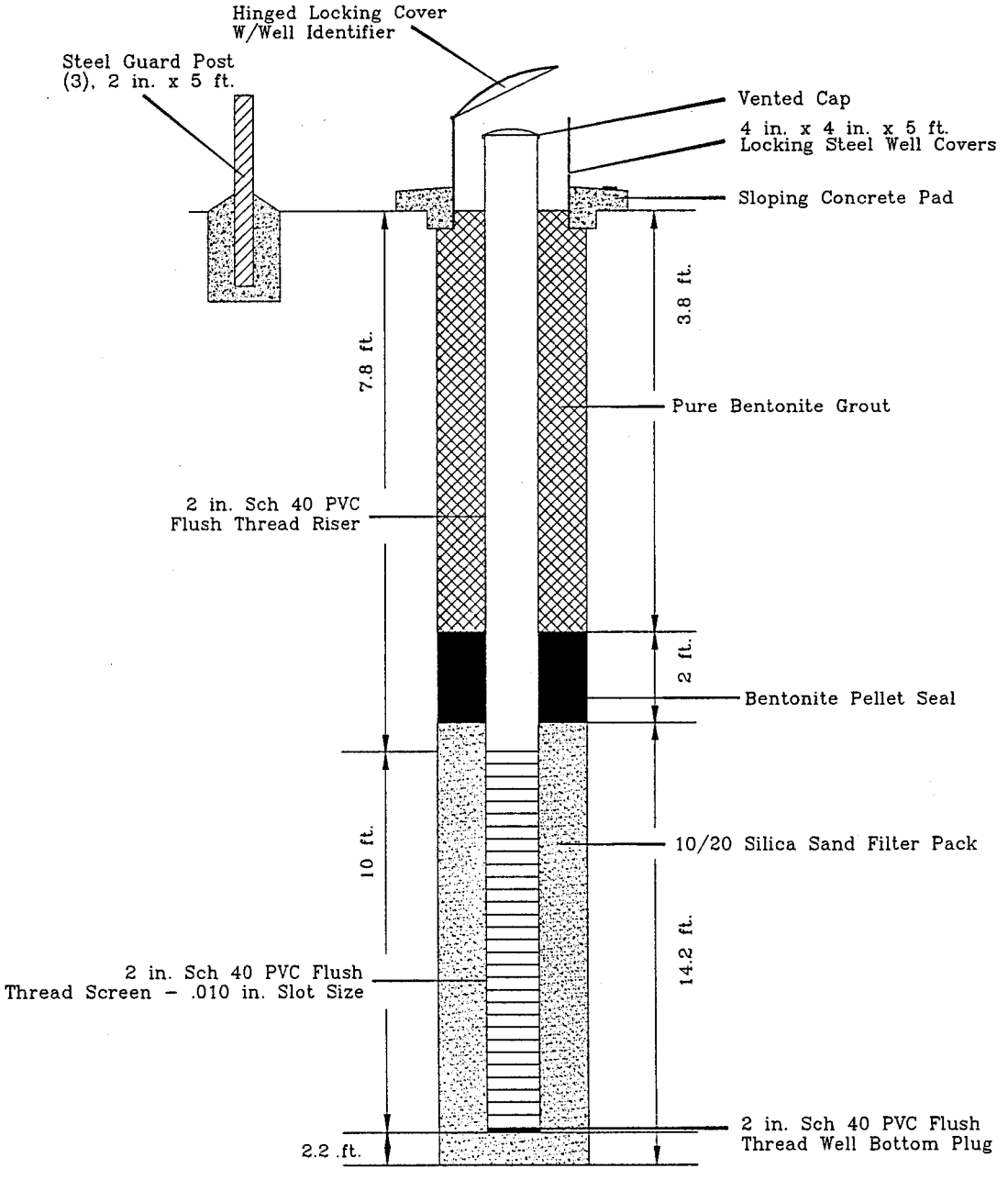


MONITORING WELL CONSTRUCTION LOG
WELL NO. 04-004MW

OPTECH
OPERATIONAL TECHNOLOGIES CORPORATION

FEBRUARY 1995 BILLY\04-004MW

Project:	BILLY MITCHELL	Date Installed:	11/04/94
Town/City:	MILWAUKEE	Drilling Contractor:	OSI, ENV. INC.
County:	MILWAUKEE State: WISCONSIN	Drilling Method:	HOLLOW-STEM AUGER
TOC Elev:	676.20 FT.	Borehole Diameter:	8 INCH
Ground Elev.:	673.80 FT.	Development Technique:	BAILING
Water Level:	5.92 FT. FROM TOC		
Total Well Depth:	20 FT.		Not To Scale



MONITORING WELL CONSTRUCTION LOG
WELL NO. 04-005MW

OPTECH
OPERATIONAL TECHNOLOGIES CORPORATION

FEBRUARY 1995 BILLY\04-005MW

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