CompuChem

A Division Of

Liberty Analytical Corp.

8/22/2014

SMITA SUMBALY

WESTON SOLUTIONS

1090 KING GEORGES POST RD. SUITE 201

EDISON, NJ 088373703

Subject:

Report of Data - Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

WorkOrder: 1408028 VOA 8260B

Attn.: SMITA SUMBALY

Enclosed are the results of analytical work performed in accordance with the referenced account number. This report covers sample(s) appearing on the listing.

Thank you for selecting CompuChem for your sample analysis. If you should have questions or require additional analytical services, please contact your representative at 1-800-833-5097

Sincerely,

Compuchem

a division of Liberty Analytical Corporation

Attachment

TOTAL NUMBER OF PAGES 336

501 Madison Avenue, Cary, NC 27513 Tel: 919-379-4100 Fax: 919-379-4050

325674

CompuChem, a division of Liberty Analytical

Client: WESTON SOLUTIONS **Work:** 1408028

Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ **Sdg:** 1408028

Lab ID	Client ID	Matrix	Date Sampled	Date Received
1408028-01	P001-COMP02-LW-01	Soil	08/06/2014 00:00	08/12/2014 08:58
1408028-02	P001-DR0502-LW-01	Soil	08/06/2014 00:00	08/12/2014 08:58

ANALYSES DATA PACKAGE COVER PAGE

Client: WESTON SOLUTIONS

Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Laboratory: COMPUCHEM

SDG: 1408028

Client Sample Id:	Analysis:	Lab Sample Id:
P001-COMP02-LW-01	SW 8260B	1408028-01
P001-DR0502-LW-01	SW 8260B	1408028-02
P001-DR0502-LW-01	SW 8260B	1408028-02RE1

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions addressed in the narrative. Release of the data contained in this hardcopy data package and in the Electronic Data Deliverable has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Quentisha Forrester

Name: Quentisha Forrester

Date: 08/22/2014

Title: Chemist III

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Liberty Analytical Corp.

501 Madison Avenue, Cary, NC 27513 Tel: 919-379-4100 Fax: 919-379-4050

ACCREDITED IN ACCORDANCE WITH nelac

I. SAMPLE DATA PACKAGE

GC/MS by SW-846

The Sample Data Package shall contain data for all samples in one Work Order/Sample Delivery Group (SDG), as follows:

A. SDG Narrative

B. Chain of Custody Records

C. Sample Preparation and Analysis Holding Time Data
(HOLDING TIME SUMMARY)

D. Surrogate Recovery Results
(SURROGATE STANDARD RECOVERY)

E. Laboratory Control Sample Results
(LCS/LCS DUPLICATE RECOVERY)

F. Matrix Spike Results
(MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY)

G. Batch Summary
(PREPARATION BATCH SUMMARY)

H. Analysis Sequence Summary
(ANALYSIS SEQUENCE SUMMARY)

I. Instrument Performance Check
(MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK)

J. Internal Standard Results
(INTERNAL STANDARD AREA AND RT SUMMARY)

K. Target Compound Results – Forms and Raw Data
(ANALYSIS DATA SHEET)

L. Initial Calibration and Second Source Calibration Verification Forms and Raw Data
(INITIAL CALIBRATION DATA) (SECOND-SOURCE CALIBRATION VERIFICATION)

M. Continuing Calibration Data – Forms and Raw Data
(CONTINUING CALIBRATION CHECK)

N. BFB / DFTPP or FC43 - Raw Data

O. Blank Data – Forms and Raw Data
(ANALYSIS DATA SHEET)

P. Laboratory Control Sample Data – Forms and Raw Data
(ANALYSIS DATA SHEET)

Q. Matrix Spike Data – Forms and Raw Data
(ANALYSIS DATA SHEET)

R. GPC Data (if applicable)

S. Run Logs / Prep Sheets / Internal CoC Documents / Standard Info / Manual Integration Summary

A. SDG Narrative

CompuChem
A division of Liberty Analytical Corporation
501 Madison Avenue
Cary, N.C. 27513
Tel: 919/379-4100 Fax: 919/379-4050

SDG NARRATIVE
SDG # 1408028
PROTOCOL: SW-846

SAMPLE IDENTIFICATIONS: P001-COMP02-LW-01 P001-DR0502-LW-01

The 2 soil samples listed above were received intact, ambient at 24.5°C, with proper documentation, in sealed shipping containers, on August 12, 2014. The samples were scheduled for the requested analysis of the volatile fraction. SW-846, 3rd Edition, Update 3, Method 8260B was used to prepare and analyze the samples, with the exceptions and/or additions requested by the client. All pertinent Quality Assurance notices are included in the narrative section, and all pertinent Laboratory notices for SDG# 1408028 are included in the sample data sections.

Volatiles

Analysis holding time requirements were met for these samples. These soil samples were analyzed as medium level only.

There were volatile Project/Target Compound List (TCL) analytes identified above the Contract Required Quantitation Limit (CRQL) in these samples. Sample P001-COMP02-LW-01 was initially analyzed at a dilution. In the analysis of sample P001-DR0502-LW-01, the response of the system monitoring compound, Bromofluorobenzene, did not meet recovery criteria. Sample P001-DR0502-LW-01 was reanalyzed, and the response of the internal standard, 1,4-Dichlorobenzene-d4, failed quality control criteria and the system monitoring compound, Toluene-d8, did not meet recovery criteria. We have reported both analyses of sample P001-DR0502-LW-01.

Tentatively Identified Compounds (TICs) were found in these samples.

All of the system monitoring compounds met recovery criteria in the analysis of these samples with exceptions mentioned above. All of the internal standards met response and retention time criteria in the analysis of these samples with exceptions mentioned above.

In a response to a Statement of Work Interpretation, the Organic Contract Laboratory Program Office stated that if the Mass Spectral Interpretation Specialist determines a TIC to be a laboratory artifact (including artifacts from the DMC solution), there is no need to report it. However, all TICs not reported due to a Mass Spectral Interpretation Specialist's assessment should be noted in the SDG Narrative. There are laboratory artifacts (including artifacts from the DMC solution) not reported on the Forms 1J. The approximate retention times are as follows:
18.2 min. Laboratory artifact
This peak is present in the standards, blanks, and samples.

Manual integrations were performed in this SDG, as indicated on the spreadsheet in section S. The reasons have been explained in the notice included in the narrative section of the SDG.

All Bromofluorobenzene (BFB) abundance criteria were met for tunes associated to this SDG. All QC criteria were met for all initial, second source and continuing calibration standards associated to this SDG with the following exceptions. The second source standard VSTD050FT (4H11002-SCV1) failed QC criteria.

The associated method blanks met all quality control criteria.

Duplicate matrix spikes were not requested with this SDG.
The associated Laboratory Control Samples (LCS/LCSD) met all quality control criteria.

I certify that the tests used in this report meet all requirements of the NELAC standards unless otherwise stated in the SDG narrative or QA notice. I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on CD has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Quentisha Forrester
Chemist III
August 22, 2014

GC and GC/MS Column and Trap Specifications Table

COLUMNS

Columns Utilized	Brand Name	Coating Material	ID (mm)	Film Thickness (um)	Length (m)
	GC Laboratory				
DRO/ORO	Restek	RTX-5	0.53	1.0	30
	Restek	RTX-SMS	0.53	1.0	30
√	Restek	clpest	0.32	0.5	30
√	Restek	clpest2	0.32	0.42	30
	J&W	DB-210	0.53	1.0	30
RSK	J&W	GS-GASPRO	0.32	N/A	30
	GC Volatiles Laboratory				
GRO	Restek	RTX-Volatiles	0.53	2.0	30
	GC/MS Volatiles Laboratory				
	Restek	RTX-VMS	0.18	1.0	20
√	Supelco	SPB-624	0.32	1.8	60
	Supelco	SPB-624	0.53	3.0	75
	Phenomonex	ZB-624	0.32	1.8	60
	GC/MS Semivolatiles Laboratory				
√	Restek	RTX-5Sil MS	0.32	0.25	30
	HPLC Laboratory				
PAH	Supelco	Supelcosil LC-PAH	4.6	5.0	15 cm
PAH	Supelco	Discovery RP Amide C16	4.6	5.0	25 cm
EXP	Restek	Pinnacle Cyano	4.6	5.0	25 cm
EXP	Restek	Allure C18	4.6	5.0	25 cm

TRAPS

	GC and GC/MS Volatiles Laboratory	
	Supelco J (BETXTRAP™)	* 7.7 cm Carbopack C
		* 1.2 cm Carbopack B
√	Supelco K (Vocarb3000)	* 10 cm of Carbopack B (Graphitized Carbons)
		* 6 cm of Carboxen 1000 (Carbon molecular sieves)
		* 1 cm of Carboxen 1001 (Carbon molecular sieves)

Rev. 30

This table contains the GC columns (and volatile organic trap) used for the analysis of volatiles, semivolatiles, pesticides, and Aroclors by the requested analytical methods. Please see the SDG Narrative(s) for the specific fraction(s) relative to this SDG.
Note: This table also contains HPLC columns.

CompuChem

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CompuChem's Pagination Convention

As required by the EPA CLP Statement of Work (SOW) documents, data to be delivered must be paginated (by machine or hand). In the event that the initial numbering is incorrect (a page numbered twice or a page skipped, for example), it is CompuChem's policy to add an alphabetic suffix to a page number when necessary (e.g., 100A, 100B, etc.). This policy is also applicable to non-CLP data packages.

Notification Regarding Manual Editing/Integration Flags

In some instances, manual adjustments to the software output are necessary to provide accurate data. These manual integrations are performed by the data reviewers, GC/MS operators, or GC/HPLC chemists. An Extracted Ion Current Profile (EICP) or a GC/HPLC chromatographic peak has been provided for the manual integration performed on each compound to demonstrate the accuracy of that process. The manual integrations are flagged on the quantitation report in the far right column beyond the FINAL concentration for GC/MS analysis, and in the "Flags" column for GC/HPLC analysis. The manual editing/integration flags are:

M - Denotes that a manual integration has been performed for this compound. The manual integration was performed in order to provide the most accurate area count possible for the peak. The most common reasons for performing manual integrations/editing are: the compound was not found by the automatic integration routine, the compound was incorrectly integrated by the automatic integration routine, and the co-eluting compounds were incorrectly integrated by the automatic integration routine.

H - Denotes that the data reviewer, GC/MS operator, or GC/HPLC Chemist has chosen an alternate peak within the retention time window from that chosen by the software for that compound. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

MH - Denotes that an alternate peak has been chosen within the retention time window from that chosen by the software for that compound and also a manual integration of the chosen peak has been performed. The manual integration was performed in order to provide the most accurate area count possible for the peak.

L - Denotes that a data reviewer or GC/MS operator has selected an alternate library search. This is typically done when an additional tentatively identified compound (TIC) has been added to the number of peaks searched. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

ML - Denotes that an alternate GC/MS library search has been selected and a manual integration has also been performed. This is typically done when an additional TIC has been added and the TIC peak also required a manual integration.

These codes will appear in the GC/MS and GC/HPLC raw data.

Revision 8 (01/29/2011)

ORGANIC DATA REPORTING QUALIFIERS

On the appropriate reporting form, under the column labeled "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on the appropriate reporting form for each compound. The qualifiers used are:

U : This flag indicates the compound was analyzed for but not detected. The Contract Required Quantitation Limit (CRQL), or reporting limit, will be adjusted to reflect any dilution and, for soils, the percent moisture.

J : This flag indicates an estimated value. The flag is used as detailed below:

1. When estimating a concentration for tentatively identified compounds (TICs) where a response factor of 1:1 is assumed for the TIC analyte,

2. When the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the adjusted CRQL (or Reporting Limit) but greater than zero, and

3. When the retention time data indicate the presence of a compound that meets the pesticide and/or Aroclor or other GC or HPLC identification criteria, and the result is less than the adjusted CRQL (or Reporting Limit) but greater than zero. For example, if the CRQL (or Reporting Limit) is 10 µg/L, but a concentration of 3 µg/L is calculated, it is reported as 3J.

N : This flag indicates presumptive evidence of a compound. This flag is only used for TICs, where the identification is based on a mass spectral library search and must be used with the J flag. For generic characterization of a TIC such as "chlorinated hydrocarbon" (or for an "unknown," with no matches ≥ 85%), the N flag is not used.

P : In the EPA's Contract Laboratory Program (CLP), this flag is used for a pesticide/Aroclor target analyte, when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the Form I and flagged with a P.
For SW-846 GC and HPLC analyses, when the Relative Percent Difference (RPD) is greater than 40% and there is no evidence of chromatographic anomalies or interferences, then the lower of the two values is reported and flagged with a P on the reporting form. When the RPD is equal to or less than 40%, our policy is to also report the lower of the two values, although the choice could be a project specific issue. These SW-846 policies are consistent with Method 8000C. If Method 8000B is required, the higher of the two values is reported. For certain HPLC analyses, if one of the HPLC columns displays co-elution of target analytes, all results are reported from a primary column displaying no co-elution. Results are still flagged with a P if the RPD between columns is greater than 40%.

C : This flag applies to GC or HPLC results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, this flag is not applied; a laboratory-defined flag is used instead (see the X/Y/Z qualifier.)

DATA REPORTING QUALIFIERS (continued)

B : This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. This flag is used for a TIC as well as for a positively identified target compound. The combination of flags BU or UB is not an allowable policy. Blank contaminants are flagged B only when they are detected in the sample.

E : This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis. If one or more compounds have a concentration greater than the upper level of the calibration range, the sample or extract will be diluted and reanalyzed. All such compounds with a concentration greater than the upper level of the calibration range will have the result flagged with an E on the appropriate reporting form for the original analysis.

D : If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration of an analyte exceeds the upper calibration range, the DL suffix is appended to the sample number on the appropriate reporting form for the more diluted sample, and **all** reported concentrations on that form are flagged with the D flag. This flag alerts data users that any discrepancies between the reported concentrations may be due to dilution of the sample or extract.

NOTE 1: The D flag is not applied to compounds which are not detected in the sample analysis i.e. compounds reported with the CRQL (or Reporting Limit) and the U flag.

NOTE 2: Separate reporting forms are used for reporting the original analysis (Client Sample No. XXXXX) and the more diluted sample analysis (Client Sample No. XXXXXDL) i.e. the results from both analyses <u>are not combined</u> on a single reporting form.

A: This flag indicates that a TIC is a suspected aldol-condensation product.

S: In the SOM01.2 SOW document, this flag is used to indicate an estimated value for Aroclor target compounds where a valid 5-point initial calibration was not performed prior to the analytes detection in a sample. If an "S" flag is used for a specific Aroclor, then a reanalysis of the sample is required after a valid 5-point calibration is performed for the detected Aroclor. The "S" flag is not utilized for non CLP analyses.

* This flag is applied to a target analyte when any QC acceptance criterion has not been met for that analyte. The flag appears on the reporting form of the associated QC analysis.

X/Y/Z : Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y, and Z.

B. Chain of Custody Records

The laboratory shall include a copy of the Chain-of-Custody (CoC) documentation for all of the samples in the Work Order/SDG.

USEPA
DateShipped: 8/6/2014
CarrierName: FedEx
AirbillNo: 502978208656

CHAIN OF CUSTODY RECORD
Case #: 306
Contact Name: Peter Lisichenko
Contact Phone: 6035124350

No: 2-080614-131105-0004
Cooler #: 2A
Lab: Compuchem Labs Inc.
Lab Phone: 919-379-4089

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	Lab QC
1408028-01	P001-COMP02-LW-01	Area03	VOCs	Liquid Waste	8/6/2014	1	4 oz	None	N
	P001-COMP02-LW-01	Area03	SVOC+PCB+PEST	Liquid Waste	8/6/2014	1	8 oz	None	N
	P001-COMP02-LW-01	Area03	RCRA	Liquid Waste	8/6/2014	1	8 oz	None	N
	P001-COMP02-LW-01	Area03	METALS+Hg	Liquid Waste	8/6/2014	1	500 ml	None	N
1408028-02	P001-DR0502-LW-01	Area05	VOCs	Liquid Waste	8/6/2014	1	4 oz	None	N
	P001-DR0502-LW-01	Area05	SVOC+PCB+PEST	Liquid Waste	8/6/2014	1	8 oz	None	N
	P001-DR0502-LW-01	Area05	RCRA	Liquid Waste	8/6/2014	1	8 oz	None	N
	P001-DR0502-LW-01	Area05	METALS+Hg	Liquid Waste	8/6/2014	1	500 ml	None	N

Special Instructions: RFP 306
Analyze upper phase of liquids

rec'd @ 24.5°C
(ambient in can)

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSIS	(WESTON)	8/6/14	Doe / Compuchem	8/12/14 0888	good condition 8/12/14

Precautionary Measures Against Hidden Hazards in Laboratory Samples

Notice to Laboratory Personnel

Background

Under the authority of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA or Superfund) of 1980, as amended, Section 311 of the Clean Water Act (CWA), as amended, by the Oil Pollution Act of 1990 (OPA), Subtitle I of the Resource Conversation and Recovery Act (RCRA), and pursuant to the National Oil and Hazardous Substances Pollution Contingency Plan (NCP) and Presidential Decision Document (PDD) #39, the Environmental Protection Agency (EPA) has been delegated the responsibility to undertake response actions with respect to, as a general matter, the release or threat of release of oil, petroleum products, hazardous substances, or pollutant and contaminants, that pose an actual or potential threat to human health or welfare, or to the environment. EPA is responsible for conducting evaluations and cleanups of uncontrolled hazardous substance disposal sites and placing those that are considered to pose a significant threat to the public health or the environment on the National Priorities List (NPL).

EPA's successful implementation of these emergency response action responsibilities requires that technical support capabilities be provided in the form of a contracted Removal Support Team (RST) for EPA. The WESTON RST Contract EP-W-06-072, provides this support to EPA Region II.

Hazard Communication

The samples which accompany this notice were shipped to your laboratory for analysis in accordance with applicable D.O.T. or IATA Regulations and were collected by the WESTON RST and tentatively designated by the field response team, as either environmental or hazardous material samples.

In general, *Environmental Samples* are collected from streams, farm ponds, small lakes, wells, and off-site soil locations that are not reasonable expected to be contaminated with hazardous materials. Samples of on-site soils or water, and materials collected from drums, bulk storage tanks, obviously contaminated ponds, impoundments, lagoons, pools, and leachates from hazardous waste sites are considered *Hazardous Samples*. Samples which are obtained from a known radioactive material contamination site or which demonstrate beta or gamma activity greater than three times average background as scanned with a radiation survey meter are considered *Radioactive Samples*.

The samples which accompany this notice were tentatively classified by the field response team as:

_____Environmental XXX Hazardous _____ Comb. (Enviro. & Hazard.) _____ Radioactive

The field team which collected the samples, used the following Level(s) of personal protection as designated by EPA and OSHA conventions to provide protection against possible radiological or chemical exposure:

_____ Level A XXX Level B _____ Level C _____ Level D

The information is intended for use as a guide for the safe handling of these laboratory samples in accordance with EPA and OSHA regulations. The Sample classification(s) and Levels of personal protection used by the WESTON RST are not represented to be, nor are they adequate or applicable in all situations, nor are they intended to serve as substitutes for professional/personal judgment.

Laboratory Name CompuChem *RFP No.* 306
Prepared by: Lisichenko, P *Date* 8/6/2014

WESTON Office: Region II RST, Edison, NJ; Phone: 732-585-4400 Fax: 732-225-7037

POTENTIAL HAZARDS

FIRE OR EXPLOSION

- These substances will accelerate burning when involved in a fire.
- Some may decompose explosively when heated or involved in a fire.
- May explode from heat or contamination.
- Some will react explosively with hydrocarbons (fuels).
- May ignite combustibles (wood, paper, oil, clothing, etc.).
- Containers may explode when heated.
- Runoff may create fire or explosion hazard.

HEALTH

- Inhalation, ingestion or contact (skin, eyes) with vapors or substance may cause severe injury, burns or death.
- Fire may produce irritating, corrosive and/or toxic gases.
- Runoff from fire control or dilution water may cause pollution.

PUBLIC SAFETY

- **CALL EMERGENCY RESPONSE Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.**
- As an immediate precautionary measure, isolate spill or leak area in all directions for at least 50 meters (150 feet) for liquids and at least 25 meters (75 feet) for solids.
- Keep unauthorized personnel away.
- Stay upwind.
- Keep out of low areas.
- Ventilate closed spaces before entering.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection.
- Structural firefighters' protective clothing will only provide limited protection.

EVACUATION

Large Spill

- Consider initial downwind evacuation for at least 100 meters (330 feet).

Fire

- If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

EMERGENCY RESPONSE

FIRE

Small Fire

- Use water. Do not use dry chemicals or foams. CO_2 or Halon® may provide limited control.

Large Fire

- Flood fire area with water from a distance.
- Do not move cargo or vehicle if cargo has been exposed to heat.
- Move containers from fire area if you can do it without risk.

Fire Involving Tanks or Car/Trailer Loads

- Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
- Cool containers with flooding quantities of water until well after fire is out.
- ALWAYS stay away from tanks engulfed in fire.
- For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

SPILL OR LEAK

- Keep combustibles (wood, paper, oil, etc.) away from spilled material.
- Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
- Stop leak if you can do it without risk.
- Do not get water inside containers.

Small Dry Spill

- With clean shovel place material into clean, dry container and cover loosely; move containers from spill area.

Small Liquid Spill

- Use a non-combustible material like vermiculite or sand to soak up the product and place into a container for later disposal.

Large Spill

- Dike far ahead of liquid spill for later disposal.
- Following product recovery, flush area with water.

FIRST AID

- Move victim to fresh air.
- Call 911 or emergency medical service.
- Give artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- Contaminated clothing may be a fire risk when dry.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- Keep victim warm and quiet.
- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

WORK ORDER

Printed: 8/14/2014 11:38:19AM

1408028

COMPUCHEM

Client:	**WESTON SOLUTIONS**	**Project Manager:**	**Cathy Dover**
Project:	**RST2/RFP306/EP-S2-14-01/SITE ID:ZZ**	**Project Number:**	**RST2/RFP306/EP-S2-14-01/SITE ID:ZZ**
SDG:	**1408028** **CASE:**	**Status:**	**Batched**

Report To:
WESTON SOLUTIONS
SMITA SUMBALY
1090 KING GEORGES POST RD. SUITE 201
EDISON, NJ 088373703
Phone: (732) 225-6116
Fax: -

Invoice To:
WESTON SOLUTIONS
SMITA SUMBALY
1090 KING GEORGES POST RD. SUITE 201
EDISON, NJ 088373703
Phone :(732) 225-6116
Fax: -

Date Due:	08/25/2014 00:00 (13 day TAT)		
Received By:	Cathy Dover	Date Received:	08/12/2014 08:58
Logged In By:	Cathy Dover	Date Logged In:	08/12/2014 12:56

J & B Flags?: **YES**	TICS?: **EPA-TICS**	Deliverable: **Level 4**	EDD : **61) CUSTOM EXCEL**
Metals ND to? **MDL**	Spike Level: **FULL Spike**		

LCS/LCSD*CAUTION WASTE DRUM SAMPLES*NOTE SAMPLE COMMENTS FOR INST(MSDS ATTACHED)*NO DRY WEIGHTS*TCL4 VOA 5PPB+EPA-LIKE TICs(MAY NEED MED.LEVEL)*SVOC 8270D TCL4+EPA-LIKE TICs,TCL PEST8081B & TCL PCB8082A ARE ALL DILUTE-N-SHOOT*TAL METALS 6010C+Hg 7471B*RIC

Analysis	Due	TAT	Expires	Received	Comments
1408028-01 P001-COMP02-LW-01 [Soil] Sampled 08/06/2014 00:00 Eastern					**USE ONLY UPPER PHASE OF SAMPLE**
VOA-8260B 5PPB	08/25/2014 16:00	13	08/20/2014 00:00	08/12/2014 08:58	SubList=VOA- TCL4 (08-08-14)
7470A 7471B Mercury	08/25/2014 16:00	13	09/03/2014 00:00	08/12/2014 08:58	
CORROSIVITY 9040B-9040C	08/25/2014 16:00	13	08/18/2014 00:00	08/12/2014 08:58	
GC-8081B PEST Dilute-n-Shoot	08/25/2014 16:00	13	08/20/2014 00:00	08/12/2014 08:58	SubList=GC- 8081 TCLnoPCB (08-08-14)
GC-8082A PCB DILUTE-N-SHOOT	08/25/2014 16:00	13	08/20/2014 00:00	08/12/2014 08:58	SubList=GC- 8082 8082 (08-08-14)
IGNITABILITY 1010A	08/25/2014 16:00	13	09/03/2014 00:00	08/12/2014 08:58	
REACTIVE CYANIDE 9014	08/25/2014 16:00	13	08/20/2014 00:00	08/12/2014 08:58	
REACTIVE SULFIDE 9034	08/25/2014 16:00	13	08/20/2014 00:00	08/12/2014 08:58	
Solids, Dry Weight	08/25/2014 16:00	13	02/02/2015 00:00	08/12/2014 08:58	
6010C METALS	08/25/2014 16:00	13	02/02/2015 00:00	08/12/2014 08:58	
SVOC 8270D Dilute-n-shoot	08/25/2014 16:00	13	08/20/2014 00:00	08/12/2014 08:58	SubList=SV- TCL4 (08-08-14)

WORK ORDER

Printed: 8/14/2014 11:38:19AM

1408028

COMPUCHEM

Client:	**WESTON SOLUTIONS**	**Project Manager:**	**Cathy Dover**
Project:	**RST2/RFP306/EP-S2-14-01/SITE ID:ZZ**	**Project Number:**	**RST2/RFP306/EP-S2-14-01/SITE ID:ZZ**
SDG:	**1408028** **CASE:**	**Status:**	**Received**

Date Due:	08/25/2014 00:00 (13 day TAT)		
Received By:	Cathy Dover	Date Received:	08/12/2014 08:58
Logged In By:	Cathy Dover	Date Logged In:	08/12/2014 12:56

J & B Flags?: **YES**	TICS?: **EPA-TICS**	Deliverable: **Level 4**	EDD : **61) CUSTOM EXCEL**
Metals ND to? **MDL**	Spike Level: **FULL Spike**		

LCS/LCSD*CAUTION WASTE DRUM SAMPLES*NOTE SAMPLE COMMENTS FOR INST(MSDS ATTACHED)*NO DRY WEIGHTS*TCL4 VOA 5PPB+EPA-LIKE TICs(MAY NEED MED.LEVEL)*SVOC 8270D TCL4+EPA-LIKE TICs,TCL PEST8081B & TCL PCB8082A ARE ALL DILUTE-N-SHOOT*TAL METALS 6010C+Hg 7471B*RIC

Analysis	Due	TAT	Expires	Received	Comments
1408028-02 P001-DR0502-LW-01 [Soil] Sampled 08/06/2014 00:00 Eastern					**USE ONLY UPPER PHASE OF SAMPLE**
7470A 7471B Mercury	08/25/2014 16:00	13	09/03/2014 00:00	08/12/2014 08:58	
6010C METALS	08/25/2014 16:00	13	02/02/2015 00:00	08/12/2014 08:58	
CORROSIVITY 9040B-9040C	08/25/2014 16:00	13	08/18/2014 00:00	08/12/2014 08:58	
GC-8081B PEST Dilute-n-Shoot	08/25/2014 16:00	13	08/20/2014 00:00	08/12/2014 08:58	SubList=GC- 8081 TCLnoPCB (08-08-14)
GC-8082A PCB DILUTE-N-SHOOT	08/25/2014 16:00	13	08/20/2014 00:00	08/12/2014 08:58	SubList=GC- 8082 8082 (08-08-14)
IGNITABILITY 1010A	08/25/2014 16:00	13	09/03/2014 00:00	08/12/2014 08:58	
REACTIVE CYANIDE 9014	08/25/2014 16:00	13	08/20/2014 00:00	08/12/2014 08:58	
REACTIVE SULFIDE 9034	08/25/2014 16:00	13	08/20/2014 00:00	08/12/2014 08:58	
Solids, Dry Weight	08/25/2014 16:00	13	02/02/2015 00:00	08/12/2014 08:58	
SVOC 8270D Dilute-n-shoot	08/25/2014 16:00	13	08/20/2014 00:00	08/12/2014 08:58	SubList=SV- TCL4 (08-08-14)
VOA-8260B 5PPB	08/25/2014 16:00	13	08/20/2014 00:00	08/12/2014 08:58	SubList=VOA- TCL4 (08-08-14)

C. Sample Preparation and Analysis Holding Time Data

(HOLDING TIME SUMMARY)

Sample collection, receipt, preparation and analysis dates with method holding time requirements.

HOLDING TIME SUMMARY

SW 8260B

Client: WESTON SOLUTIONS SDG: 1408028

Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
P001-COMP02-LW-01	08/06/14	08/12/14	08/13/14	N/A	14	08/14/14	8.0	14	
P001-DR0502-LW-01	08/06/14	08/12/14	08/13/14	N/A	14	08/13/14	8.0	14	
P001-DR0502-LW-01RE1	08/06/14	08/12/14	08/15/14	N/A	14	08/15/14	9.7	14	

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D. Surrogate Recovery Results

(SURROGATE STANDARD RECOVERY)

SURROGATE STANDARD RECOVERY

SW 8260B

Client: WESTON SOLUTIONS

Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

SDG: 1408028 Instrument: 5972hp59

Sequence: 4H13004 Calibration: 4081203

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	Q
Blank (4081312-BLK1) ug/kg wet				
Lab File ID: 4081312-BLK1R59.d	Analyzed: 08/13/14 15:37			
Dibromofluoromethane	2500	95	71 - 141	
1,2-Dichloroethane-d4	2500	96	70 - 139	
Toluene-d8	2500	97	72 - 123	
Bromofluorobenzene	2500	105	65 - 131	
LCS (4081312-BS1) ug/kg wet				
Lab File ID: 4081312-BS159.d	Analyzed: 08/13/14 17:19			
Dibromofluoromethane	2500	92	71 - 141	
1,2-Dichloroethane-d4	2500	89	70 - 139	
Toluene-d8	2500	100	72 - 123	
Bromofluorobenzene	2500	106	65 - 131	
LCS Dup (4081312-BSD1) ug/kg wet				
Lab File ID: 4081312-BSD159.d	Analyzed: 08/13/14 17:50			
Dibromofluoromethane	2500	95	71 - 141	
1,2-Dichloroethane-d4	2500	92	70 - 139	
Toluene-d8	2500	99	72 - 123	
Bromofluorobenzene	2500	99	65 - 131	
P001-DR0502-LW-01 (1408028-02) ug/kg wet				
Lab File ID: 1408028-02D59.d	Analyzed: 08/13/14 23:42			
Dibromofluoromethane	2500	97	71 - 141	
1,2-Dichloroethane-d4	2500	85	70 - 139	
Toluene-d8	2500	116	72 - 123	
Bromofluorobenzene	2500	3	65 - 131	*
P001-COMP02-LW-01 (1408028-01) ug/kg wet				
Lab File ID: 1408028-01D59.d	Analyzed: 08/14/14 00:23			
Dibromofluoromethane	14710	93	71 - 141	
1,2-Dichloroethane-d4	14710	86	70 - 139	
Toluene-d8	14710	106	72 - 123	
Bromofluorobenzene	14710	105	65 - 131	

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SURROGATE STANDARD RECOVERY

SW 8260B

Client: WESTON SOLUTIONS

Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

SDG: 1408028 Instrument: 5972hp59

Sequence: 4H15005 Calibration: 4081203

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	Q
Blank (4081503-BLK1) ug/kg wet				
Lab File ID: 4081503-BLK1R59.d	Analyzed: 08/15/14 14:17			
Dibromofluoromethane	2500	100	71 - 141	
1,2-Dichloroethane-d4	2500	97	70 - 139	
Toluene-d8	2500	101	72 - 123	
Bromofluorobenzene	2500	98	65 - 131	
LCS (4081503-BS1) ug/kg wet				
Lab File ID: 4081503-BS159.d	Analyzed: 08/15/14 14:58			
Dibromofluoromethane	2500	98	71 - 141	
1,2-Dichloroethane-d4	2500	97	70 - 139	
Toluene-d8	2500	92	72 - 123	
Bromofluorobenzene	2500	92	65 - 131	
LCS Dup (4081503-BSD1) ug/kg wet				
Lab File ID: 4081503-BSD159.d	Analyzed: 08/15/14 15:29			
Dibromofluoromethane	2500	98	71 - 141	
1,2-Dichloroethane-d4	2500	92	70 - 139	
Toluene-d8	2500	91	72 - 123	
Bromofluorobenzene	2500	95	65 - 131	
P001-DR0502-LW-01 (1408028-02RE1) ug/kg wet				
Lab File ID: 1408028-02D259.d	Analyzed: 08/15/14 16:42			
Dibromofluoromethane	2500	105	71 - 141	
1,2-Dichloroethane-d4	2500	101	70 - 139	
Toluene-d8	2500	140	72 - 123	*
Bromofluorobenzene	2500	90	65 - 131	

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E. Laboratory Control Sample Results

(LCS/LCS DUPLICATE RECOVERY)

LCS recovery or LCS/LCSD recovery with relative percent difference, and quality control acceptance criteria.

LCS / LCS DUPLICATE SUMMARY

SW 8260B

Client: WESTON SOLUTIONS SDG: 1408028 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Lab ID: 4081312-BS1 Matrix: Soil Med Client ID: VLCSFX Batch: 4081312

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	Q	QC LIMITS REC.
Dichlorodifluoromethane	2500	2307	92		50 - 150
Chloromethane	2500	2206	88		51 - 150
Vinyl chloride	2500	2324	93		54 - 136
Bromomethane	2500	2377	95		59 - 150
Chloroethane	2500	2424	97		55 - 150
Trichlorofluoromethane	2500	2139	86		55 - 150
1,1-Dichloroethene	2500	2391	96		72 - 129
Acetone	6250	5334	85		50 - 150
1,1,2-Trichloro-1,2,2-trifluoroethane	2500	2139	86		59 - 138
Carbon disulfide	2500	2449	98		66 - 146
Methyl acetate	2500	1834	73		50 - 150
Methylene chloride	2500	2376 B	95		72 - 123
trans-1,2-Dichloroethene	2500	2462	98		39 - 130
Methyl tert-butyl ether	2500	2346	94		62 - 135
1,1-Dichloroethane	2500	2302	92		70 - 126
cis-1,2-Dichloroethene	2500	2376	95		70 - 131
2-Butanone	6250	5232	84		64 - 127
Chloroform	2500	2394	96		65 - 133
1,1,1-Trichloroethane	2500	2441	98		69 - 134
Cyclohexane	2500	1925	77		50 - 150
Carbon tetrachloride	2500	2370	95		70 - 139
1,2-Dichloroethane	2500	2358	94		67 - 133
Benzene	2500	2604	104		66 - 130
Trichloroethene	2500	2525	101		72 - 130
Methylcyclohexane	2500	1766	71		50 - 150
1,2-Dichloropropane	2500	2381	95		73 - 123
Bromodichloromethane	2500	2466	99		71 - 126

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LCS / LCS DUPLICATE SUMMARY

SW 8260B

Client: WESTON SOLUTIONS SDG: 1408028 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Lab ID: 4081312-BS1 Matrix: Soil Med Client ID: VLCSFX Batch: 4081312

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	Q	QC LIMITS REC.
cis-1,3-Dichloropropene	2500	2579	103		63 - 136
4-Methyl-2-pentanone	6250	5830	93		51 - 141
Toluene	2500	2783	111		61 - 131
trans-1,3-Dichloropropene	2500	2586	103		60 - 140
1,1,2-Trichloroethane	2500	2720	109		63 - 131
Tetrachloroethene	2500	2678	107		78 - 136
2-Hexanone	6250	5978	96		50 - 143
Dibromochloromethane	2500	2741	110		70 - 129
1,2-Dibromoethane	2500	2721	109		61 - 137
Chlorobenzene	2500	2553	102		76 - 121
Ethylbenzene	2500	2632	105		68 - 131
m,p-Xylene	5000	5339	107		61 - 150
o-Xylene	2500	2788	112		61 - 150
Styrene	2500	2818	113		73 - 127
Bromoform	2500	2671	107		66 - 133
Isopropylbenzene	2500	2749	110		62 - 138
1,1,2,2-Tetrachloroethane	2500	2537	101		63 - 135
1,3-Dichlorobenzene	2500	2776	111		79 - 120
1,4-Dichlorobenzene	2500	2663	107		79 - 116
1,2-Dichlorobenzene	2500	2746	110		62 - 143
1,2-Dibromo-3-chloropropane	2500	2902	116		57 - 133
1,2,4-Trichlorobenzene	2500	2749	110		57 - 142

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LCS / LCS DUPLICATE SUMMARY

SW 8260B

Client: WESTON SOLUTIONS SDG: 1408028 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Lab ID: 4081312-BSD1 Matrix: Soil Med Client ID: VLCSDFX Batch: 4081312

ANALYTE	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	LCSD % REC. #	% RPD #	QC LIMITS		
					RPD	Q	REC.
Dichlorodifluoromethane	2500	2370	95	3	25		50 - 150
Chloromethane	2500	2212	88	0.3	25		51 - 150
Vinyl chloride	2500	2491	100	7	25		54 - 136
Bromomethane	2500	2396	96	0.8	25		59 - 150
Chloroethane	2500	2612	104	7	25		55 - 150
Trichlorofluoromethane	2500	2249	90	5	25		55 - 150
1,1-Dichloroethene	2500	2425	97	1	14		72 - 129
Acetone	6250	5280	84	1	25		50 - 150
1,1,2-Trichloro-1,2,2-trifluoroethane	2500	2249	90	5	25		59 - 138
Carbon disulfide	2500	2455	98	0.2	25		66 - 146
Methyl acetate	2500	2223	89	19	25		50 - 150
Methylene chloride	2500	2539 B	102	7	25		72 - 123
trans-1,2-Dichloroethene	2500	2529	101	3	25		39 - 130
Methyl tert-butyl ether	2500	2503	100	6	25		62 - 135
1,1-Dichloroethane	2500	2491	100	8	25		70 - 126
cis-1,2-Dichloroethene	2500	2451	98	3	25		70 - 131
2-Butanone	6250	5485	88	5	25		64 - 127
Chloroform	2500	2544	102	6	25		65 - 133
1,1,1-Trichloroethane	2500	2501	100	2	25		69 - 134
Cyclohexane	2500	2038	82	6	25		50 - 150
Carbon tetrachloride	2500	2492	100	5	25		70 - 139
1,2-Dichloroethane	2500	2363	95	0.2	25		67 - 133
Benzene	2500	2605	104	0.04	14		66 - 130
Trichloroethene	2500	2711	108	7	14		72 - 130
Methylcyclohexane	2500	1903	76	7	25		50 - 150
1,2-Dichloropropane	2500	2323	93	2	25		73 - 123
Bromodichloromethane	2500	2465	99	0.02	25		71 - 126

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LCS / LCS DUPLICATE SUMMARY

SW 8260B

Client: WESTON SOLUTIONS SDG: 1408028 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Lab ID: 4081312-BSD1 Matrix: Soil Med Client ID: VLCSDFX Batch: 4081312

ANALYTE	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	LCSD % REC. #	% RPD #	QC LIMITS		
					RPD	Q	REC.
cis-1,3-Dichloropropene	2500	2596	104	0.6	25		63 - 136
4-Methyl-2-pentanone	6250	6187	99	6	25		51 - 141
Toluene	2500	2645	106	5	14		61 - 131
trans-1,3-Dichloropropene	2500	2637	105	2	25		60 - 140
1,1,2-Trichloroethane	2500	2690	108	1	25		63 - 131
Tetrachloroethene	2500	2692	108	0.5	25		78 - 136
2-Hexanone	6250	6041	97	1	25		50 - 143
Dibromochloromethane	2500	2635	105	4	25		70 - 129
1,2-Dibromoethane	2500	2681	107	1	25		61 - 137
Chlorobenzene	2500	2699	108	6	14		76 - 121
Ethylbenzene	2500	2665	107	1	25		68 - 131
m,p-Xylene	5000	5390	108	1	25		61 - 150
o-Xylene	2500	2797	112	0.3	25		61 - 150
Styrene	2500	2785	111	1	25		73 - 127
Bromoform	2500	2756	110	3	25		66 - 133
Isopropylbenzene	2500	2756	110	0.3	25		62 - 138
1,1,2,2-Tetrachloroethane	2500	2566	103	1	25		63 - 135
1,3-Dichlorobenzene	2500	2694	108	3	25		79 - 120
1,4-Dichlorobenzene	2500	2724	109	2	25		79 - 116
1,2-Dichlorobenzene	2500	2767	111	0.8	25		62 - 143
1,2-Dibromo-3-chloropropane	2500	2910	116	0.3	25		57 - 133
1,2,4-Trichlorobenzene	2500	2698	108	2	25		57 - 142

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LCS / LCS DUPLICATE SUMMARY

SW 8260B

Client: WESTON SOLUTIONS SDG: 1408028 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Lab ID: 4081503-BS1 Matrix: Soil Med Client ID: VLCSGA Batch: 4081503

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	Q	QC LIMITS REC.
Dichlorodifluoromethane	2500	2152	86		50 - 150
Chloromethane	2500	1760 B	70		51 - 150
Vinyl chloride	2500	2340	94		54 - 136
Bromomethane	2500	2455	98		59 - 150
Chloroethane	2500	2457	98		55 - 150
Trichlorofluoromethane	2500	2249	90		55 - 150
1,1-Dichloroethene	2500	2273	91		72 - 129
Acetone	6250	7274	116		50 - 150
1,1,2-Trichloro-1,2,2-trifluoroethane	2500	2249	90		59 - 138
Carbon disulfide	2500	2057	82		66 - 146
Methyl acetate	2500	1756	70		50 - 150
Methylene chloride	2500	2462 B	98		72 - 123
trans-1,2-Dichloroethene	2500	2310	92		39 - 130
Methyl tert-butyl ether	2500	2596	104		62 - 135
1,1-Dichloroethane	2500	2321	93		70 - 126
cis-1,2-Dichloroethene	2500	2537	101		70 - 131
2-Butanone	6250	6735	108		64 - 127
Chloroform	2500	2570	103		65 - 133
1,1,1-Trichloroethane	2500	2331	93		69 - 134
Cyclohexane	2500	1813	73		50 - 150
Carbon tetrachloride	2500	2261	90		70 - 139
1,2-Dichloroethane	2500	2532	101		67 - 133
Benzene	2500	2372	95		66 - 130
Trichloroethene	2500	2555	102		72 - 130
Methylcyclohexane	2500	1865	75		50 - 150
1,2-Dichloropropane	2500	2261	90		73 - 123
Bromodichloromethane	2500	2508	100		71 - 126

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LCS / LCS DUPLICATE SUMMARY

SW 8260B

Client: WESTON SOLUTIONS SDG: 1408028 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Lab ID: 4081503-BS1 Matrix: Soil Med Client ID: VLCSGA Batch: 4081503

ANALYTE	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC.	Q	QC LIMITS REC.
cis-1,3-Dichloropropene	2500	1932	77		63 - 136
4-Methyl-2-pentanone	6250	6124	98		51 - 141
Toluene	2500	2477 B	99		61 - 131
trans-1,3-Dichloropropene	2500	1959	78		60 - 140
1,1,2-Trichloroethane	2500	2706	108		63 - 131
Tetrachloroethene	2500	2605	104		78 - 136
2-Hexanone	6250	5826	93		50 - 143
Dibromochloromethane	2500	2746	110		70 - 129
1,2-Dibromoethane	2500	2808	112		61 - 137
Chlorobenzene	2500	2468	99		76 - 121
Ethylbenzene	2500	2446	98		68 - 131
m,p-Xylene	5000	5034	101		61 - 150
o-Xylene	2500	2519	101		61 - 150
Styrene	2500	2380	95		73 - 127
Bromoform	2500	2801	112		66 - 133
Isopropylbenzene	2500	2499	100		62 - 138
1,1,2,2-Tetrachloroethane	2500	2662	106		63 - 135
1,3-Dichlorobenzene	2500	2330	93		79 - 120
1,4-Dichlorobenzene	2500	2342	94		79 - 116
1,2-Dichlorobenzene	2500	2476	99		62 - 143
1,2-Dibromo-3-chloropropane	2500	3035	121		57 - 133
1,2,4-Trichlorobenzene	2500	2224	89		57 - 142

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LCS / LCS DUPLICATE SUMMARY

SW 8260B

Client: WESTON SOLUTIONS SDG: 1408028 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Lab ID: 4081503-BSD1 Matrix: Soil Med Client ID: VLCSDGA Batch: 4081503

ANALYTE	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	LCSD % REC. #	% RPD #	QC LIMITS		
					RPD	Q	REC.
Dichlorodifluoromethane	2500	2243	90	4	25		50 - 150
Chloromethane	2500	2023 B	81	14	25		51 - 150
Vinyl chloride	2500	2401	96	3	25		54 - 136
Bromomethane	2500	1779	71	32 *	25		59 - 150
Chloroethane	2500	2367	95	4	25		55 - 150
Trichlorofluoromethane	2500	2486	99	10	25		55 - 150
1,1-Dichloroethene	2500	2468	99	8	14		72 - 129
Acetone	6250	6117	98	17	25		50 - 150
1,1,2-Trichloro-1,2,2-trifluoroethane	2500	2486	99	10	25		59 - 138
Carbon disulfide	2500	2228	89	8	25		66 - 146
Methyl acetate	2500	1591	64	10	25		50 - 150
Methylene chloride	2500	2538 B	102	3	25		72 - 123
trans-1,2-Dichloroethene	2500	2390	96	3	25		39 - 130
Methyl tert-butyl ether	2500	2587	103	0.3	25		62 - 135
1,1-Dichloroethane	2500	2463	99	6	25		70 - 126
cis-1,2-Dichloroethene	2500	2519	101	0.7	25		70 - 131
2-Butanone	6250	5696	91	17	25		64 - 127
Chloroform	2500	2522	101	2	25		65 - 133
1,1,1-Trichloroethane	2500	2488	100	7	25		69 - 134
Cyclohexane	2500	1965	79	8	25		50 - 150
Carbon tetrachloride	2500	2448	98	8	25		70 - 139
1,2-Dichloroethane	2500	2545	102	0.5	25		67 - 133
Benzene	2500	2493	100	5	14		66 - 130
Trichloroethene	2500	2637	105	3	14		72 - 130
Methylcyclohexane	2500	1907	76	2	25		50 - 150
1,2-Dichloropropane	2500	2367	95	5	25		73 - 123
Bromodichloromethane	2500	2657	106	6	25		71 - 126

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LCS / LCS DUPLICATE SUMMARY

SW 8260B

Client: WESTON SOLUTIONS SDG: 1408028 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Lab ID: 4081503-BSD1 Matrix: Soil Med Client ID: VLCSDGA Batch: 4081503

ANALYTE	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	LCSD % REC. #	% RPD #	QC LIMITS		
					RPD	Q	REC.
cis-1,3-Dichloropropene	2500	1996	80	3	25		63 - 136
4-Methyl-2-pentanone	6250	5591	89	9	25		51 - 141
Toluene	2500	2376 B	95	4	14		61 - 131
trans-1,3-Dichloropropene	2500	1762	70	11	25		60 - 140
1,1,2-Trichloroethane	2500	2677	107	1	25		63 - 131
Tetrachloroethene	2500	2569	103	1	25		78 - 136
2-Hexanone	6250	4728	76	21	25		50 - 143
Dibromochloromethane	2500	2730	109	0.6	25		70 - 129
1,2-Dibromoethane	2500	2659	106	5	25		61 - 137
Chlorobenzene	2500	2406	96	3	14		76 - 121
Ethylbenzene	2500	2322	93	5	25		68 - 131
m,p-Xylene	5000	4434	89	13	25		61 - 150
o-Xylene	2500	2469	99	2	25		61 - 150
Styrene	2500	2319	93	3	25		73 - 127
Bromoform	2500	2776	111	0.9	25		66 - 133
Isopropylbenzene	2500	2564	103	3	25		62 - 138
1,1,2,2-Tetrachloroethane	2500	2461	98	8	25		63 - 135
1,3-Dichlorobenzene	2500	2414	97	4	25		79 - 120
1,4-Dichlorobenzene	2500	2275	91	3	25		79 - 116
1,2-Dichlorobenzene	2500	2494	100	0.7	25		62 - 143
1,2-Dibromo-3-chloropropane	2500	2939	118	3	25		57 - 133
1,2,4-Trichlorobenzene	2500	2094	84	6	25		57 - 142

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G. Batch Summary

(PREPARATION BATCH SUMMARY)

Client Sample IDs, cross-referenced with Lab Sample IDs, with sample preparation details.

PREPARATION BATCH SUMMARY

SW 8260B

Client: WESTON SOLUTIONS SDG: 1408028 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Batch: 4081312 Matrix: Soil Med Preparation: EPA 5030B/5035A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL/WT (g)	FINAL VOL/WT (mL)
P001-COMP02-LW-01	1408028-01	08/13/14 15:37	5.00	5.00
P001-DR0502-LW-01	1408028-02	08/13/14 15:37	5.00	5.00
VBLKFX	4081312-BLK1	08/13/14 15:37	5.00	5.00
VLCSFX	4081312-BS1	08/13/14 15:37	5.00	5.00
VLCSDFX	4081312-BSD1	08/13/14 15:37	5.00	5.00

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PREPARATION BATCH SUMMARY

SW 8260B

Client: WESTON SOLUTIONS SDG: 1408028 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Batch: 4081503 Matrix: Soil Med Preparation: EPA 5030B/5035A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL/WT (g)	FINAL VOL/WT (mL)
P001-DR0502-LW-01RE1	1408028-02RE1	08/15/14 14:17	5.00	5.00
VBLKGA	4081503-BLK1	08/15/14 14:17	5.00	5.00
VLCSGA	4081503-BS1	08/15/14 14:17	5.00	5.00
VLCSDGA	4081503-BSD1	08/15/14 14:17	5.00	5.00

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H. Analysis Sequence Summary

(ANALYSIS SEQUENCE SUMMARY)

ANALYSIS SEQUENCE SUMMARY

SW 8260B

Client: WESTON SOLUTIONS SDG: 1408028 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Sequence: 4H11002 Calibration: 4081203 Instrument: 5972hp59

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
BFBFT	4H11002-TUN1	4H11002-TUN159.d	08/11/14 13:58:00
VSTD010FT	4H11002-CAL2	4H11002-CAL259.d	08/11/14 14:26:00
VSTD005FT	4H11002-CAL1	4H11002-CAL159.d	08/11/14 14:57:00
VSTD200FT	4H11002-CAL6	4H11002-CAL659.d	08/11/14 15:28:00
VSTD100FT	4H11002-CAL5	4H11002-CAL559.d	08/11/14 15:58:00
VSTD050FT	4H11002-CAL4	4H11002-CAL459.d	08/11/14 16:29:00
VSTD020FT	4H11002-CAL3	4H11002-CAL3R59.d	08/11/14 18:02:00
VSTD050FT	4H11002-SCV1	4H11002-SCV159.d	08/11/14 19:16:00

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ANALYSIS SEQUENCE SUMMARY

SW 8260B

Client: WESTON SOLUTIONS SDG: 1408028 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Sequence: 4H13004 Calibration: 4081203 Instrument: 5972hp59

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
BFBFW	4H13004-TUN1	4H13004-TUN159.d	08/13/14 13:14:00
VSTD050FW	4H13004-ICV1	4H13004-ICV159.d	08/13/14 13:39:00
VBLKFX	4081312-BLK1	4081312-BLK1R59.d	08/13/14 15:37:00
VLCSFX	4081312-BS1	4081312-BS159.d	08/13/14 17:19:00
VLCSDFX	4081312-BSD1	4081312-BSD159.d	08/13/14 17:50:00
P001-DR0502-LW-01	1408028-02	1408028-02D59.d	08/13/14 23:42:00
P001-COMP02-LW-01	1408028-01	1408028-01D59.d	08/14/14 00:23:00

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ANALYSIS SEQUENCE SUMMARY

SW 8260B

Client: WESTON SOLUTIONS SDG: 1408028 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Sequence: 4H15005 Calibration: 4081203 Instrument: 5972hp59

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
BFBGA	4H15005-TUN1	4H15005-TUN159.d	08/15/14 12:33:00
VSTD050GA	4H15005-ICV1	4H15005-ICV159.d	08/15/14 12:59:00
VBLKGA	4081503-BLK1	4081503-BLK1R59.d	08/15/14 14:17:00
VLCSGA	4081503-BS1	4081503-BS159.d	08/15/14 14:58:00
VLCSDGA	4081503-BSD1	4081503-BSD159.d	08/15/14 15:29:00
P001-DR0502-LW-01RE1	1408028-02RE1	1408028-02D259.d	08/15/14 16:42:00

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I. Instrument Performance Check

(MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK)

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW 8260B

Laboratory:	COMPUCHEM	SDG:	1408028
Client:	WESTON SOLUTIONS	Project:	RST2/RFP306/EP-S2-14-01/SITE ID:ZZ
Lab File ID:	4H11002-TUN159.d	Injection Date:	08/11/14
Instrument ID:	5972hp59	Injection Time:	13:58
Sequence:	4H11002	Lab Sample ID:	4H11002-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	18.8	PASS
75	30 - 60% of 95	44.6	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.05	PASS
173	Less than 2% of 174	0	PASS
174	(Greater than 50% of 95)	87.5	PASS
175	5 - 9% of 174	7.21	PASS
176	(Greater than 95% but less then 101%)	97.1	PASS
177	5 - 9% of 176	6.73	PASS

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MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW 8260B

Laboratory:	COMPUCHEM	SDG:	1408028
Client:	WESTON SOLUTIONS	Project:	RST2/RFP306/EP-S2-14-01/SITE ID:ZZ
Lab File ID:	4H13004-TUN159.d	Injection Date:	08/13/14
Instrument ID:	5972hp59	Injection Time:	13:14
Sequence:	4H13004	Lab Sample ID:	4H13004-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	16.2	PASS
75	30 - 60% of 95	43.4	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.92	PASS
173	Less than 2% of 174	0	PASS
174	(Greater than 50% of 95)	89.8	PASS
175	5 - 9% of 174	7.21	PASS
176	(Greater than 95% but less then 101%)	95.8	PASS
177	5 - 9% of 176	6.46	PASS

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MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW 8260B

Laboratory:	COMPUCHEM	SDG:	1408028
Client:	WESTON SOLUTIONS	Project:	RST2/RFP306/EP-S2-14-01/SITE ID:ZZ
Lab File ID:	4H15005-TUN159.d	Injection Date:	08/15/14
Instrument ID:	5972hp59	Injection Time:	12:33
Sequence:	4H15005	Lab Sample ID:	4H15005-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	16.1	PASS
75	30 - 60% of 95	43	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.78	PASS
173	Less than 2% of 174	0	PASS
174	(Greater than 50% of 95)	91.6	PASS
175	5 - 9% of 174	7.12	PASS
176	(Greater than 95% but less then 101%)	95.5	PASS
177	5 - 9% of 176	6.56	PASS

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J. Internal Standard Results

(INTERNAL STANDARD AREA AND RT SUMMARY)

INTERNAL STANDARD AREA AND RT SUMMARY
SW 8260B

Laboratory:	COMPUCHEM	SDG:	1408028
Client:	WESTON SOLUTIONS	Project:	RST2/RFP306/EP-S2-14-01/SITE ID:ZZ
Sequence:	4H11002	Instrument:	5972hp59
		Calibration:	4081203

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Secondary Cal Check (4H11002-SCV1)			Lab File ID: 4H11002-SCV159.d			Analyzed: 08/11/14 19:16			
Fluorobenzene	526430	12.975	572729	12.979	92	50 - 200	-0.0040	+/-0.50	
Chlorobenzene-d5	454884	15.638	482139	15.642	94	50 - 200	-0.0040	+/-0.50	
1,4-Dichlorobenzene-d4	216289	17.413	240480	17.417	90	50 - 200	-0.0040	+/-0.50	

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INTERNAL STANDARD AREA AND RT SUMMARY
SW 8260B

Laboratory:	COMPUCHEM	SDG:	1408028
Client:	WESTON SOLUTIONS	Project:	RST2/RFP306/EP-S2-14-01/SITE ID:ZZ
Sequence:	4H13004	Instrument:	5972hp59
		Calibration:	4081203

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (4H13004-ICV1)			Lab File ID: 4H13004-ICV159.d			Analyzed: 08/13/14 13:39			
Fluorobenzene	604998	12.983	572729	12.979	106	50 - 200	0.0040	+/-0.50	
Chlorobenzene-d5	514858	15.636	482139	15.642	107	50 - 200	-0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	255380	17.421	240480	17.417	106	50 - 200	0.0040	+/-0.50	
Blank (4081312-BLK1)			Lab File ID: 4081312-BLK1R59.d			Analyzed: 08/13/14 15:37			
Fluorobenzene	538963	12.98	604998	12.983	89	50 - 200	-0.0030	+/-0.50	
Chlorobenzene-d5	474554	15.642	514858	15.636	92	50 - 200	0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	242303	17.417	255380	17.421	95	50 - 200	-0.0040	+/-0.50	
LCS (4081312-BS1)			Lab File ID: 4081312-BS159.d			Analyzed: 08/13/14 17:19			
Fluorobenzene	565646	12.979	604998	12.983	93	50 - 200	-0.0040	+/-0.50	
Chlorobenzene-d5	467921	15.642	514858	15.636	91	50 - 200	0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	242309	17.417	255380	17.421	95	50 - 200	-0.0040	+/-0.50	
LCS Dup (4081312-BSD1)			Lab File ID: 4081312-BSD159.d			Analyzed: 08/13/14 17:50			
Fluorobenzene	579617	12.981	604998	12.983	96	50 - 200	-0.0020	+/-0.50	
Chlorobenzene-d5	492193	15.634	514858	15.636	96	50 - 200	-0.0020	+/-0.50	
1,4-Dichlorobenzene-d4	250506	17.419	255380	17.421	98	50 - 200	-0.0020	+/-0.50	
P001-DR0502-LW-01 (1408028-02)			Lab File ID: 1408028-02D59.d			Analyzed: 08/13/14 23:42			
Fluorobenzene	708068	12.964	604998	12.983	117	50 - 200	-0.0190	+/-0.50	
Chlorobenzene-d5	494095	15.637	514858	15.636	96	50 - 200	0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	132717	17.402	255380	17.421	52	50 - 200	-0.0190	+/-0.50	
P001-COMP02-LW-01 (1408028-01)			Lab File ID: 1408028-01D59.d			Analyzed: 08/14/14 00:23			
Fluorobenzene	694736	12.976	604998	12.983	115	50 - 200	-0.0070	+/-0.50	
Chlorobenzene-d5	544178	15.629	514858	15.636	106	50 - 200	-0.0070	+/-0.50	
1,4-Dichlorobenzene-d4	280477	17.414	255380	17.421	110	50 - 200	-0.0070	+/-0.50	

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INTERNAL STANDARD AREA AND RT SUMMARY
SW 8260B

Laboratory:	COMPUCHEM	SDG:	1408028
Client:	WESTON SOLUTIONS	Project:	RST2/RFP306/EP-S2-14-01/SITE ID:ZZ
Sequence:	4H15005	Instrument:	5972hp59
		Calibration:	4081203

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (4H15005-ICV1)			Lab File ID: 4H15005-ICV159.d			Analyzed: 08/15/14 12:59			
Fluorobenzene	654585	12.967	572729	12.979	114	50 - 200	-0.0120	+/-0.50	
Chlorobenzene-d5	559723	15.629	482139	15.642	116	50 - 200	-0.0130	+/-0.50	
1,4-Dichlorobenzene-d4	291973	17.414	240480	17.417	121	50 - 200	-0.0030	+/-0.50	
Blank (4081503-BLK1)			Lab File ID: 4081503-BLK1R59.d			Analyzed: 08/15/14 14:17			
Fluorobenzene	554407	12.969	654585	12.967	85	50 - 200	0.0020	+/-0.50	
Chlorobenzene-d5	489209	15.632	559723	15.629	87	50 - 200	0.0030	+/-0.50	
1,4-Dichlorobenzene-d4	267413	17.407	291973	17.414	92	50 - 200	-0.0070	+/-0.50	
LCS (4081503-BS1)			Lab File ID: 4081503-BS159.d			Analyzed: 08/15/14 14:58			
Fluorobenzene	610997	12.979	654585	12.967	93	50 - 200	0.0120	+/-0.50	
Chlorobenzene-d5	523300	15.632	559723	15.629	93	50 - 200	0.0030	+/-0.50	
1,4-Dichlorobenzene-d4	270311	17.407	291973	17.414	93	50 - 200	-0.0070	+/-0.50	
LCS Dup (4081503-BSD1)			Lab File ID: 4081503-BSD159.d			Analyzed: 08/15/14 15:29			
Fluorobenzene	605116	12.976	654585	12.967	92	50 - 200	0.0090	+/-0.50	
Chlorobenzene-d5	560549	15.639	559723	15.629	100	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	280421	17.414	291973	17.414	96	50 - 200	0.0000	+/-0.50	
P001-DR0502-LW-01 (1408028-02RE1)			Lab File ID: 1408028-02D259.d			Analyzed: 08/15/14 16:42			
Fluorobenzene	481621	12.97	654585	12.967	74	50 - 200	0.0030	+/-0.50	
Chlorobenzene-d5	278080	15.632	559723	15.629	50	50 - 200	0.0030	+/-0.50	
1,4-Dichlorobenzene-d4	93273	17.477	291973	17.414	32	50 - 200	0.0630	+/-0.50	*

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K. Target Compound Results

(ANALYSIS DATA SHEETS)

Analysis Data Sheets (ADS), Tentatively Identified Compounds (TICs), and Surrogate Recovery Results

Sample data shall be arranged in packets with the Analysis Data Sheet, followed by the raw data for volatile or semivolatile samples. These sample packets shall be placed in increasing Client Sample ID number order, considering both letters and numbers.

a. Target Analyte Results (ANALYSIS DATA SHEET)
Tabulated results (identification and quantitation) and Tentatively Identified Compounds (TICs) shall be included.

b. Reconstructed Ion Chromatograms (RICs)
Include for each sample or sample extract, including dilutions and reanalyses. The RIC shall contain the following header information: Client Sample ID Number, date and time of analysis, instrument ID, Lab file ID, and analyst ID.

d. Quantitation Report for target analytes and TICs.
Include a printout of the Extracted Ion Current Profile (EICP) for all manual changes to all compounds, internal standards, and surrogate compounds.

e. Copies of raw spectra and copies of background-subtracted mass spectra of target analytes plus TICs identified in the sample.
- The spectra shall include the following information: Client Sample ID number, Lab file ID, date and time of analysis, and instrument ID.
- The compound name must be clearly marked.

ANALYSIS DATA SHEET

SW 8260B

P001-COMP02-LW-01

Client: WESTON SOLUTIONS | SDG 1408028 | Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Matrix: Soil | Preparation: EPA 5030B/5035A | File ID: 1408028-01D59.d | Sampled: 08/06/14 00:00

Initial/Final: 5g / 5mL | Lab ID: 1408028-01 | Received: 08/12/14 08:58

Dilution: 294.12 | pH: | Prepared: 08/13/14 15:37

% Moisture: NA | Analyzed: 08/14/14 00:23

Batch: 4081312 | Sequence: 4H13004 | Calibration: 4081203 | Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
75-71-8	Dichlorodifluoromethane		130	1500	U
74-87-3	Chloromethane		94	1500	U
75-01-4	Vinyl chloride		120	1500	U
74-83-9	Bromomethane		170	1500	U
75-00-3	Chloroethane		210	1500	U
75-69-4	Trichlorofluoromethane		88	1500	U
75-35-4	1,1-Dichloroethene		320	1500	U
67-64-1	Acetone		1500	3700	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		150	1500	U
75-15-0	Carbon disulfide		41	1500	U
79-20-9	Methyl acetate		410	1500	U
75-09-2	Methylene chloride	380	140	1500	JBD
156-60-5	trans-1,2-Dichloroethene		290	1500	U
1634-04-4	Methyl tert-butyl ether		110	1500	U
75-34-3	1,1-Dichloroethane		140	1500	U
156-59-2	cis-1,2-Dichloroethene		120	1500	U
78-93-3	2-Butanone		380	3700	U
67-66-3	Chloroform		91	1500	U
71-55-6	1,1,1-Trichloroethane		150	1500	U
110-82-7	Cyclohexane	3500	91	1500	D
56-23-5	Carbon tetrachloride		130	1500	U
107-06-2	1,2-Dichloroethane		79	1500	U
71-43-2	Benzene	1500	91	1500	D
79-01-6	Trichloroethene		94	1500	U
108-87-2	Methylcyclohexane	14000	82	1500	D
78-87-5	1,2-Dichloropropane		190	1500	U
75-27-4	Bromodichloromethane		110	1500	U
10061-01-5	cis-1,3-Dichloropropene		110	1500	U
108-10-1	4-Methyl-2-pentanone		380	3700	U
108-88-3	Toluene	17000	100	1500	D
10061-02-6	trans-1,3-Dichloropropene		120	1500	U
79-00-5	1,1,2-Trichloroethane		210	1500	U
127-18-4	Tetrachloroethene		470	1500	U
591-78-6	2-Hexanone		290	3700	U
124-48-1	Dibromochloromethane		160	1500	U

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ANALYSIS DATA SHEET

SW 8260B

P001-COMP02-LW-01

Client: WESTON SOLUTIONS | SDG 1408028 | Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Matrix: Soil | Preparation: EPA 5030B/5035A | File ID: 1408028-01D59.d | Sampled: 08/06/14 00:00

Initial/Final: 5g / 5mL | Lab ID: 1408028-01 | Received: 08/12/14 08:58

Dilution: 294.12 | pH: | Prepared: 08/13/14 15:37

% Moisture: NA | Analyzed: 08/14/14 00:23

Batch: 4081312 | Sequence: 4H13004 | Calibration: 4081203 | Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
106-93-4	1,2-Dibromoethane		65	1500	U
108-90-7	Chlorobenzene		74	1500	U
100-41-4	Ethylbenzene	15000	170	1500	D
179601-23-1	m,p-Xylene	64000	41	2900	D
95-47-6	o-Xylene	32000	110	1500	D
100-42-5	Styrene		24	1500	U
75-25-2	Bromoform		320	1500	U
98-82-8	Isopropylbenzene	4200	65	1500	D
79-34-5	1,1,2,2-Tetrachloroethane		110	1500	U
541-73-1	1,3-Dichlorobenzene		79	1500	U
106-46-7	1,4-Dichlorobenzene		62	1500	U
95-50-1	1,2-Dichlorobenzene		110	1500	U
96-12-8	1,2-Dibromo-3-chloropropane		190	1500	U
120-82-1	1,2,4-Trichlorobenzene		100	1500	U
1330-20-7	Xylenes (total)	95000	41	1500	D

SURROGATE RECOVERY RESULTS	ADDED (ug/kg wet)	CONC (ug/kg wet)	% REC	QC LIMITS	Q
Dibromofluoromethane	14710	13670	93	71 - 141	D
1,2-Dichloroethane-d4	14710	12700	86	70 - 139	D
Toluene-d8	14710	15590	106	72 - 123	D
Bromofluorobenzene	14710	15510	105	65 - 131	D

CAS NO.	TICS	CONC. (ug/kg wet)	Response	R.T.	% Match	Q
17057-82-8	1H-Indene, 2,3-dihydro-1,2-dimethyl-	12000	4775179	20.017	89	JDN
874-35-1	1H-Indene, 2,3-dihydro-5-methyl-	25000	9856072	18.666	90	JDN
004489-84-3	Benzene, (3-methyl-2-butenyl)-	11000	4175604	19.356	90	JDN
000526-73-8	Benzene, 1,2,3-trimethyl-	32000	12534170	17.049	97	JDN
000095-93-2	Benzene, 1,2,4,5-tetramethyl-	23000	8761341	18.34	96	JDN
000108-67-8	Benzene, 1,3,5-trimethyl-	10000	3986010	16.743	97	JDN
000611-14-3	Benzene, 1-ethyl-2-methyl-	22000	8370637	16.684	91	JDN
611-14-3	Benzene, 1-ethyl-2-methyl-(1)	8000	3094052	16.93	94	JDN
000535-77-3	Benzene, 1-methyl-3-(1-methylethyl)-	15000	5797643	17.818	91	JDN
001560-06-1	Benzene, 2-butenyl-	19000	7438091	18.863	91	JDN
001758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	18000	6915459	18.804	91	JDN
000934-80-5	Benzene, 4-ethyl-1,2-dimethyl-	12000	4674393	17.907	96	JDN
1680-51-9	Naphthalene, 1,2,3,4-tetrahydro-6-methyl	39000	15007770	20.352	95	JDN
NA	Unk. Alkane	10000	3864307	15.175	0	JD
NA	Unk. Alkane(1)	17000	6646099	18.479	0	JD

Environmental Testing Laboratories
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ANALYSIS DATA SHEET

SW 8260B

P001-COMP02-LW-01

Client: WESTON SOLUTIONS SDG 1408028 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Matrix: Soil Preparation: EPA 5030B/5035A File ID: 1408028-01D59.d Sampled: 08/06/14 00:00

Initial/Final: 5g / 5mL Lab ID: 1408028-01 Received: 08/12/14 08:58

Dilution: 294.12 pH: Prepared: 08/13/14 15:37

% Moisture: NA Analyzed: 08/14/14 00:23

Batch: 4081312 Sequence: 4H13004 Calibration: 4081203 Instrument: 5972hp59

CAS NO.	TICS	CONC. (ug/kg wet)	Response	R.T.	% Match	Q
NA	Unk. Alkane(2)	7900	3075890	19.573	0	JD
NA	Unknown 17.532	28000	10900700	17.532	0	JD
NA	Unknown 17.621	7000	2730370	17.621	0	JD
NA	Unknown 17.769	8200	3176270	17.769	0	JD
NA	Unknown 18.025	11000	4137611	18.025	0	JD
NA	Unknown 18.104	8800	3427659	18.104	0	JD
NA	Unknown 18.291	13000	4865534	18.291	0	JD
NA	Unknown 18.725	8200	3189314	18.725	0	JD
NA	Unknown 19.238	17000	6746366	19.238	0	JD
NA	Unknown 19.839	14000	5510033	19.839	0	JD

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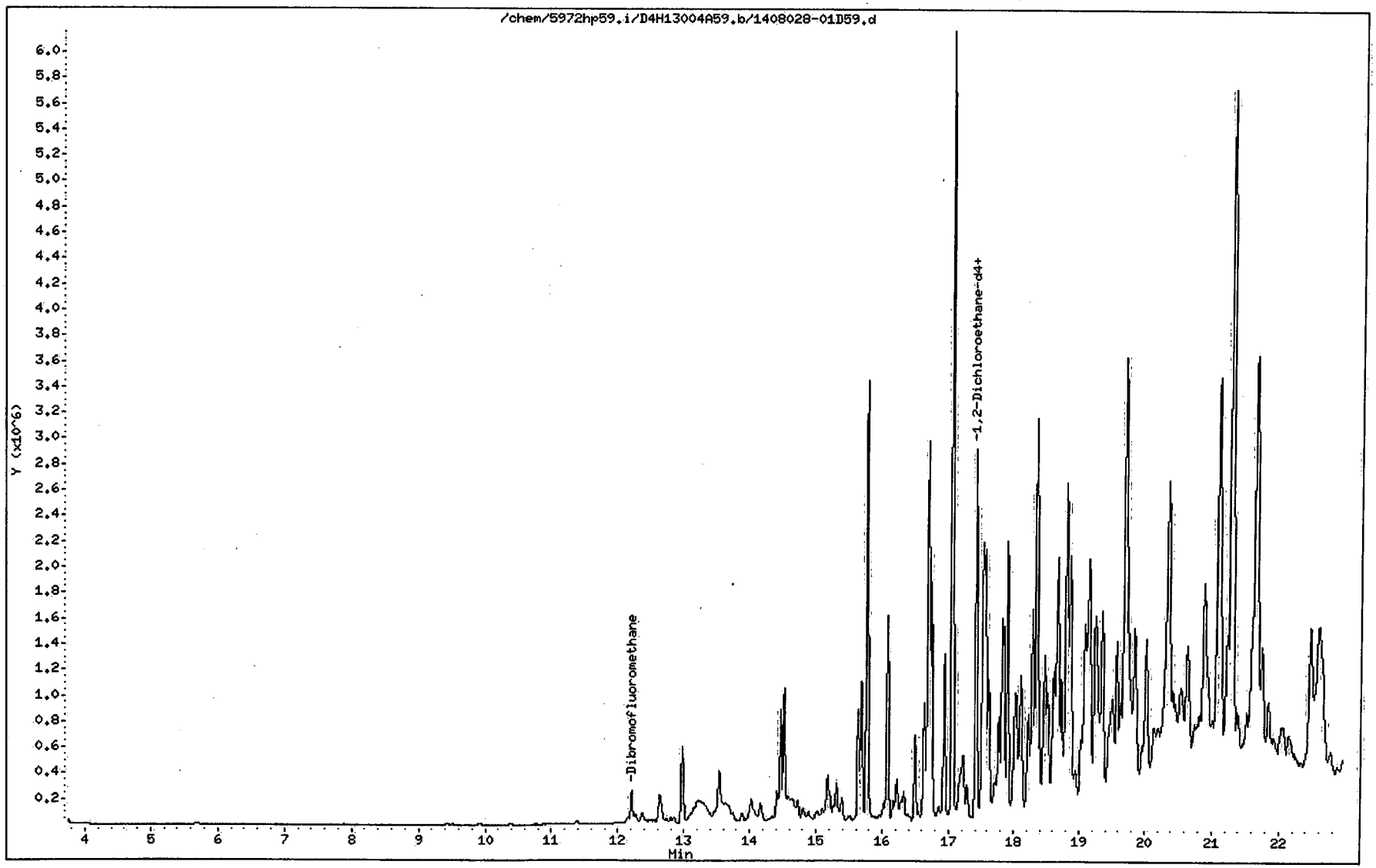
Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-01D59.d
Date : 14-AUG-2014 00:23
Client ID: P001-COMP02-LW-01
Sample Info: 1408028-01:JAO

Column phase: SPB-624

Instrument: 5972hp59.i

Operator: JAO
Column diameter: 0.32



8/14/2014

Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-01D59.d
Report Date: 14-Aug-2014 13:26

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp59.i/D4H13004A59.b/1408028-01D59.d
Lab Smp Id: 1408028-01 Client Smp ID: P001-COMP02-LW-01
Inj Date : 14-AUG-2014 00:23
Operator : JAO Inst ID: 5972hp59.i
Smp Info : 1408028-01:JAO
Misc Info : P001-COMP02-LW-01
Comment :
Method : /chem/5972hp59.i/D4H13004A59.b/8260B_5ppbv5.m
Meth Date : 14-Aug-2014 13:26 ron Quant Type: ISTD
Cal Date : 11-AUG-2014 18:02 Cal File: 4H11002-CAL3R59.d
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TCL4.sub
Target Version: 3.50
Processing Host: dante

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

Name	Value	Description
DF	1.00000	Dilution Factor
Ws	5.00000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Vt	5000.00000	
Va	17.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
* 1 Fluorobenzene	96	12.976	12.972	(1.000)	694736	250.000	
* 2 Chlorobenzene-d5	117	15.629	15.634	(1.000)	544178	250.000	
* 3 1,4-Dichlorobenzene-d4	152	17.414	17.419	(1.000)	280477	250.000	
$ 4 Dibromofluoromethane	113	12.207	12.212	(0.941)	183555	232.359	13668.2
$ 5 1,2-Dichloroethane-d4	65	12.631	12.636	(0.973)	144578	215.855	12697.4
$ 6 Toluene-d8	98	14.465	14.471	(0.926)	589090	265.095	15593.8
$ 7 Bromofluorobenzene	95	16.496	16.502	(0.947)	236076	263.612	15506.6
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					

8/14/2014

Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-01D59.d
Report Date: 14-Aug-2014 13:26

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
17 1,1-Dichloroethene	96	Compound Not Detected.					
18 Acetone	43	Compound Not Detected.					
16 1,1,2-trichloro-1,2,2-trifluo	101	Compound Not Detected.					
20 Carbon disulfide	76	Compound Not Detected.					
23 Methyl acetate	43	Compound Not Detected.					
24 Methylene Chloride	84	9.505	9.510	(0.732)	4538	6.48593	381.525(a)
28 trans-1,2-Dichloroethene	96	Compound Not Detected.					
26 Methyl-tert-butyl ether	73	Compound Not Detected.					
32 1,1-Dichloroethane	63	Compound Not Detected.					
37 cis-1,2-Dichloroethene	96	Compound Not Detected.					
35 2-butanone	43	Compound Not Detected.					
42 Chloroform	83	Compound Not Detected.					
43 1,1,1-Trichloroethane	97	Compound Not Detected.					
44 Cyclohexane	56	12.266	12.271	(0.945)	38750	58.7312	3454.78
48 Carbon Tetrachloride	117	Compound Not Detected.					
50 1,2-Dichloroethane	62	Compound Not Detected.					
49 Benzene	78	12.660	12.666	(0.976)	62812	25.8040	1517.88
51 Trichloroethene	130	Compound Not Detected.					
52 Methylcyclohexane	83	13.528	13.534	(1.043)	150499	235.482	13851.9
54 1,2-Dichloropropane	63	Compound Not Detected.					
57 Bromodichloromethane	83	Compound Not Detected.					
58 cis-1,3-Dichloropropene	75	Compound Not Detected.					
59 4-Methyl-2-pentanone	43	Compound Not Detected.					
60 Toluene	92	14.524	14.530	(0.929)	400056	288.287	16958.1
62 trans-1,3-Dichloropropene	75	Compound Not Detected.					
63 1,1,2-Trichloroethane	97	Compound Not Detected.					
67 Tetrachloroethene	164	Compound Not Detected.					
64 2-hexanone	43	Compound Not Detected.					
68 Dibromochloromethane	129	Compound Not Detected.					
69 1,2-Dibromoethane	107	Compound Not Detected.					
71 Chlorobenzene	112	Compound Not Detected.					
72 Ethylbenzene	106	15.688	15.693	(1.004)	209796	260.131	15301.8
75 m,p-Xylene (part of total)	106	15.767	15.772	(1.009)	1104889	1079.98	63528.1
77 o-Xylene (part of total)	106	16.082	16.088	(1.029)	532509	538.175	31657.4
78 Styrene	104	Compound Not Detected.					
79 Bromoform	173	Compound Not Detected.					
80 Isopropyl Benzene	105	16.329	16.334	(1.045)	166768	70.6048	4153.23
81 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
94 1,3-Dichlorobenzene	146	Compound Not Detected.					
95 1,4-Dichlorobenzene	146	Compound Not Detected.					
97 1,2-Dichlorobenzene	146	Compound Not Detected.					
98 1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.					
99 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
M 104 Xylene (total)	106				1637398	1618.15	95185.4

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Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-01D59.d
Report Date: 14-Aug-2014 13:26

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

8/14/2014

Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-01D59.d
Report Date: 14-Aug-2014 13:26

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp59.i/D4H13004A59.b/1408028-01D59.d
Lab Smp Id: 1408028-01 Client Smp ID: P001-COMP02-LW-01
Inj Date : 14-AUG-2014 00:23
Operator : JAO Inst ID: 5972hp59.i
Smp Info : 1408028-01:JAO
Misc Info : P001-COMP02-LW-01
Comment :
Method : /chem/5972hp59.i/D4H13004A59.b/8260B_5ppbv5.m
Meth Date : 14-Aug-2014 13:26 ron Quant Type: ISTD
Cal Date : 11-AUG-2014 18:02 Cal File: 4H11002-CAL3R59.d
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TCL4.sub
Target Version: 3.50
Processing Host: dante

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

Name	Value	Description
DF	1.00000	Dilution Factor
Ws	5.00000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Vt	5000.00000	
Va	17.00000	

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 1 Fluorobenzene	12.976	5707024	250.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ng)	FINAL(ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unk. Alkane				CAS #:			
15.175	3864307	169.278530	9957.56	0		0	1
Benzene, 1-ethyl-2-methyl-				CAS #: 611-14-3			
16.684	8370637	366.681301	21569.5	91	NIS08.1	9314	1

8/14/2014

Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-01D59.d
Report Date: 14-Aug-2014 13:26

RT	AREA	CONCENTRATIONS ON-COL(ng)	FINAL(ug/Kg)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Benzene, 1,3,5-trimethyl-				CAS #: 108-67-8			
16.743	3986010	174.609788	10271.2	97	NIS08.1	9308	1
Benzene, 1-ethyl-2-methyl-				CAS #: 611-14-3			
16.930	3094052	135.536980	7972.76	94	NIS08.1	9317	1
Benzene, 1,2,3-trimethyl-				CAS #: 526-73-8			
17.049	12534169	549.067584	32298.1	97	NIS08.1	9310	1
Unknown				CAS #:			
17.532	10900697	477.512234	28089.0	0		0	1
Unknown				CAS #:			
17.621	2730370	119.605656	7035.63	0		0	1
Unknown				CAS #:			
17.769	3176270	139.138626	8184.63	0		0	1
Benzene, 1-methyl-3-(1-methylethyl)-				CAS #: 535-77-3			
17.818	5797643	253.969612	14939.4	91	NIS08.1	14730	1
Benzene, 4-ethyl-1,2-dimethyl-				CAS #: 934-80-5			
17.907	4674393	204.764893	12045.0	96	NIS08.1	14710	1
Unknown				CAS #:			
18.025	4137611	181.250803	10661.8	0		0	1
Unknown				CAS #:			
18.104	3427659	150.150862	8832.40	0		0	1
Unknown				CAS #:			
18.291	4865534	213.137943	12537.5	0		0	1
Benzene, 1,2,4,5-tetramethyl-				CAS #: 95-93-2			
18.340	8761341	383.796339	22576.3	96	NIS08.1	14694	1
Unk. Alkane				CAS #:			
18.479	6646099	291.136757	17125.7	0		0	1
1H-Indene, 2,3-dihydro-5-methyl-				CAS #: 874-35-1			
18.666	9856072	431.751783	25397.2	90	NIS08.1	13915	1
Unknown				CAS #:			
18.725	3189314	139.710001	8218.24	0		0	1

Roldan Hani 8/14/2014

Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-01D59.d
Report Date: 14-Aug-2014 13:26

RT	AREA	CONCENTRATIONS ON-COL(ng)	FINAL(ug/Kg)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Benzene, 2-ethyl-1,4-dimethyl-				CAS #: 1758-88-9			
18.804	6915459	302.936270	17819.8	91	NIS08.1	14714	1
Benzene, 2-butenyl-				CAS #: 1560-06-1			
18.863	7438091	325.830504	19166.5	91	NIS08.1	13887	1
Unknown				CAS #:			
19.238	6746366	295.529037	17384.1	0		0	1
Benzene, (3-methyl-2-butenyl)-				CAS #: 4489-84-3			
19.356	4175604	182.915087	10759.7	90	NIS08.1	21323	1
Unk. Alkane				CAS #:			
19.573	3075890	134.741383	7925.96	0		0	1
Unknown				CAS #:			
19.839	5510033	241.370641	14198.3	0		0	1
1H-Indene, 2,3-dihydro-1,2-dimethyl-				CAS #: 17057-82-8			
20.017	4775179	209.179877	12304.7	89	NIS08.1	21337	1
Naphthalene, 1,2,3,4-tetrahydro-6-methyl				CAS #: 1680-51-9			
20.352	15007766	657.425119	38672.1	95	NIS08.1	21360	1

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Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-01D59.d

Date : 14-AUG-2014 00:23

Client ID: P001-COMP02-LW-01

Instrument: 5972hp59.i

Sample Info: 1408028-01:JAO

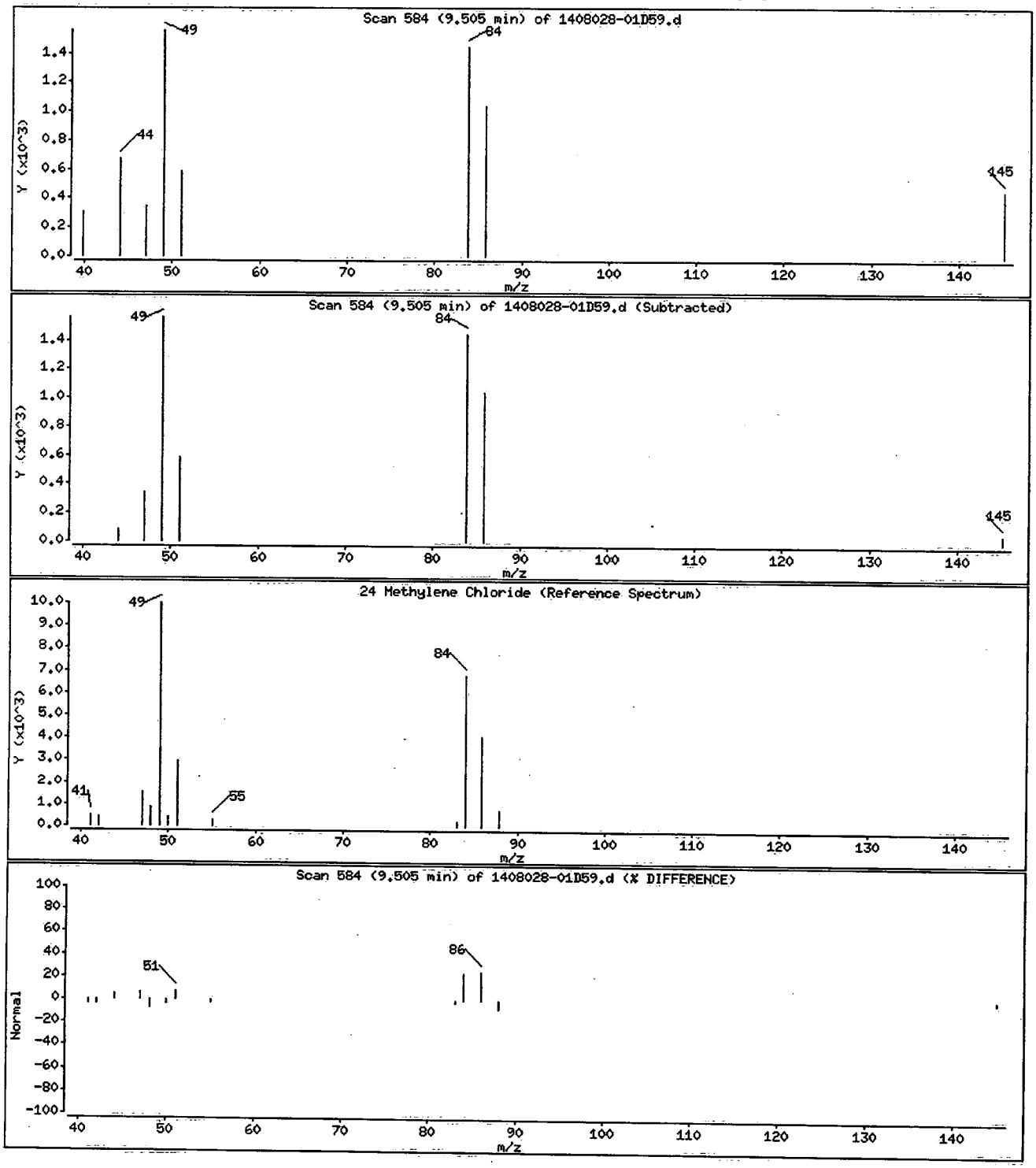
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

24 Methylene Chloride

Concentration: 381.525 ug/Kg



Roldw Hani 8/14/2014

Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-01D59.d

Date : 14-AUG-2014 00:23

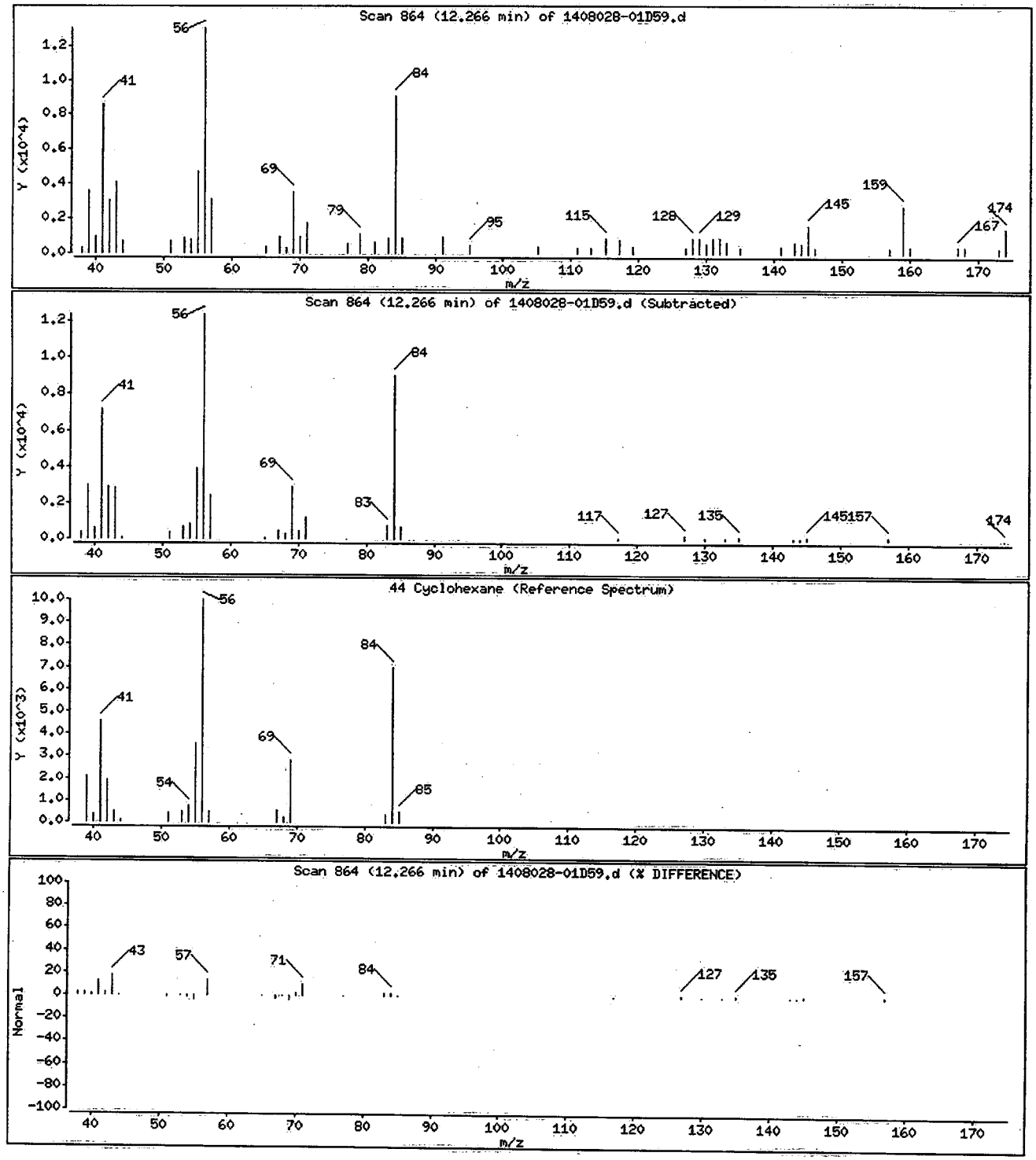
Client ID: P001-COMP02-LW-01 Instrument: 5972hp59.i

Sample Info: 1408028-01:JAO

Operator: JAO

Column phase: SPB-624 Column diameter: 0.32

44 Cyclohexane Concentration: 3454.78 ug/Kg



Robert Hamm 8/14/2014

Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-01D59.d

Date : 14-AUG-2014 00:23

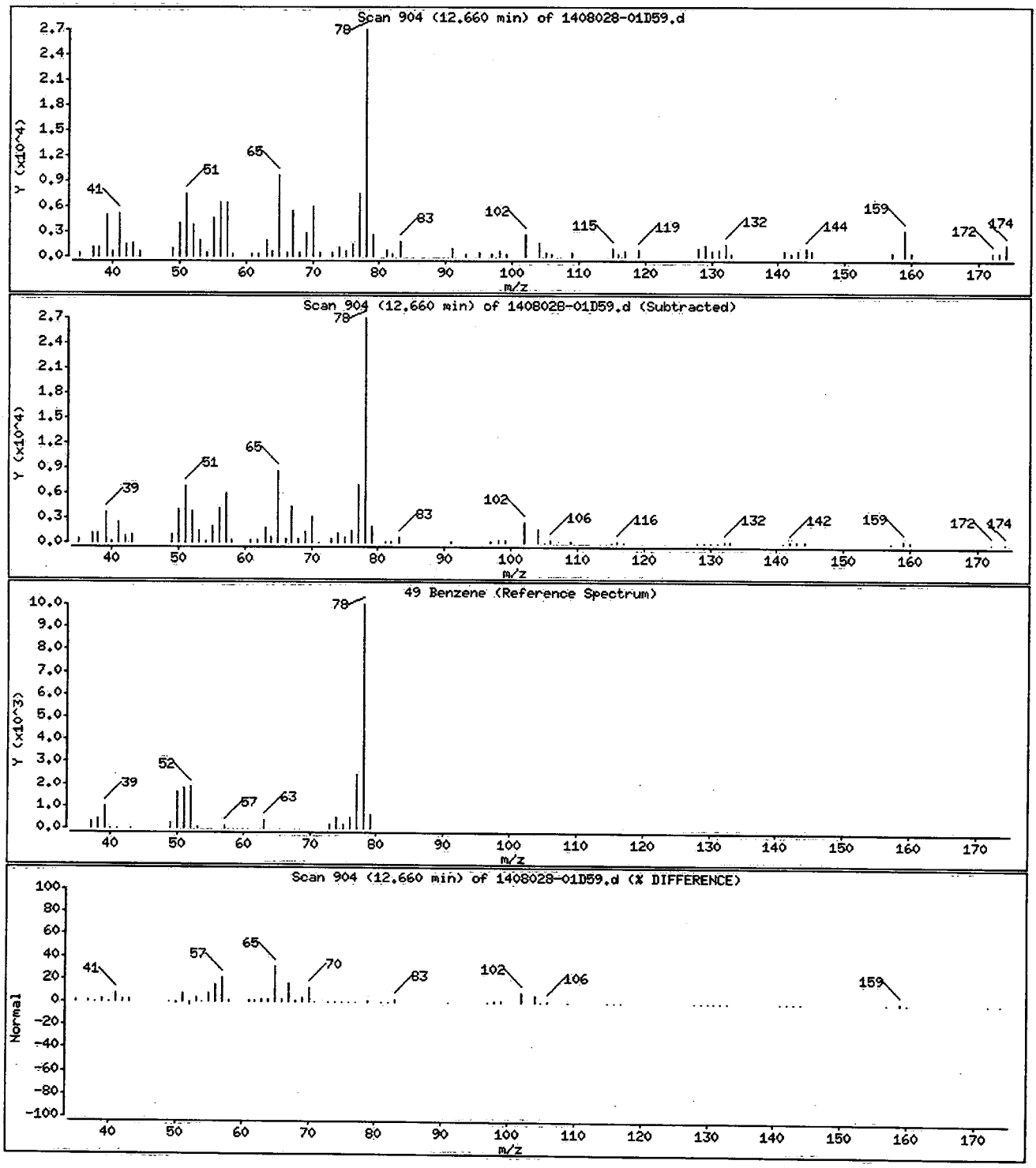
Client ID: P001-COMP02-LW-01 | Instrument: 5972hp59.i

Sample Info: 1408028-01:JAO

Operator: JAO

Column phase: SPB-624 | Column diameter: 0.32

49 Benzene | Concentration: 1517.88 ug/Kg



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Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-01D59.d

Date : 14-AUG-2014 00:23

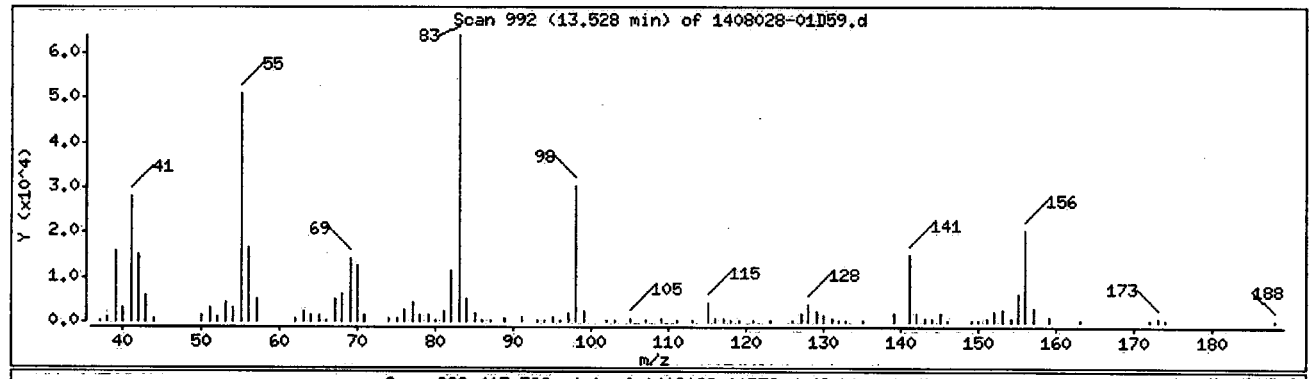
Client ID: P001-COMP02-LW-01 Instrument: 5972hp59.i

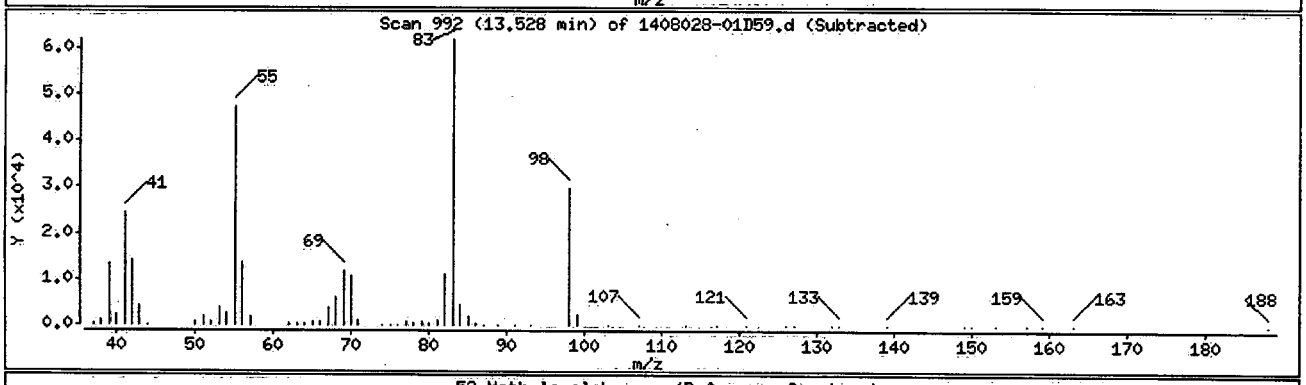
Sample Info: 1408028-01:JAO

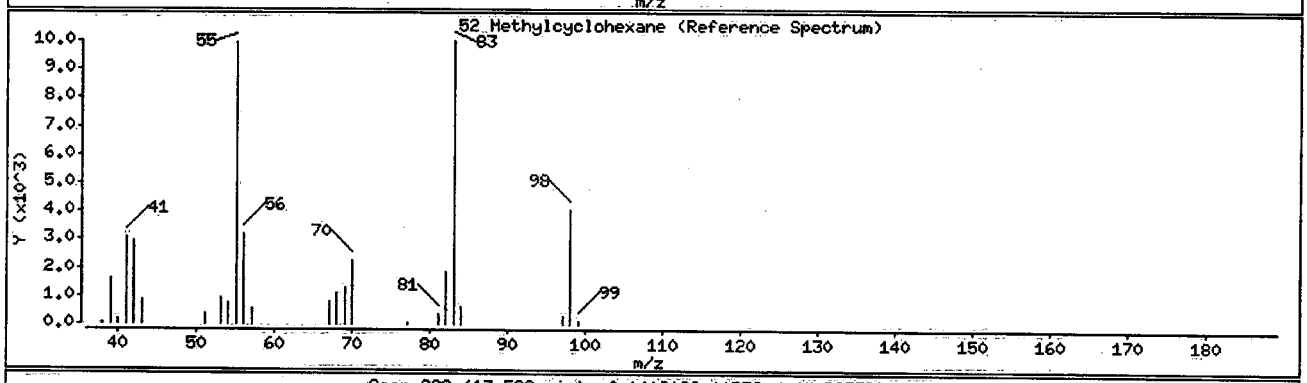
Operator: JAO

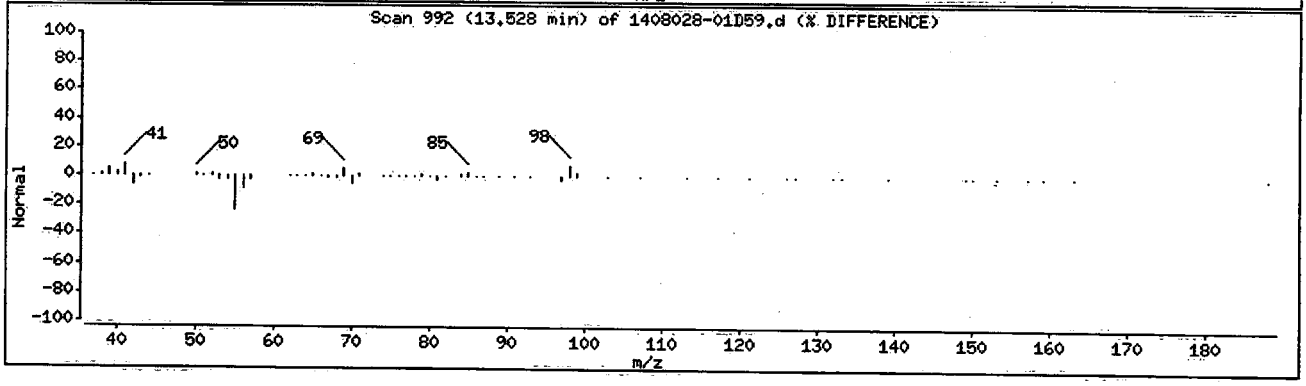
Column phase: SPB-624 Column diameter: 0.32

52 Methylcyclohexane Concentration: 13851.9 ug/Kg









Robin Hamm 8/14/2014

Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-01D59.d

Date : 14-AUG-2014 00:23

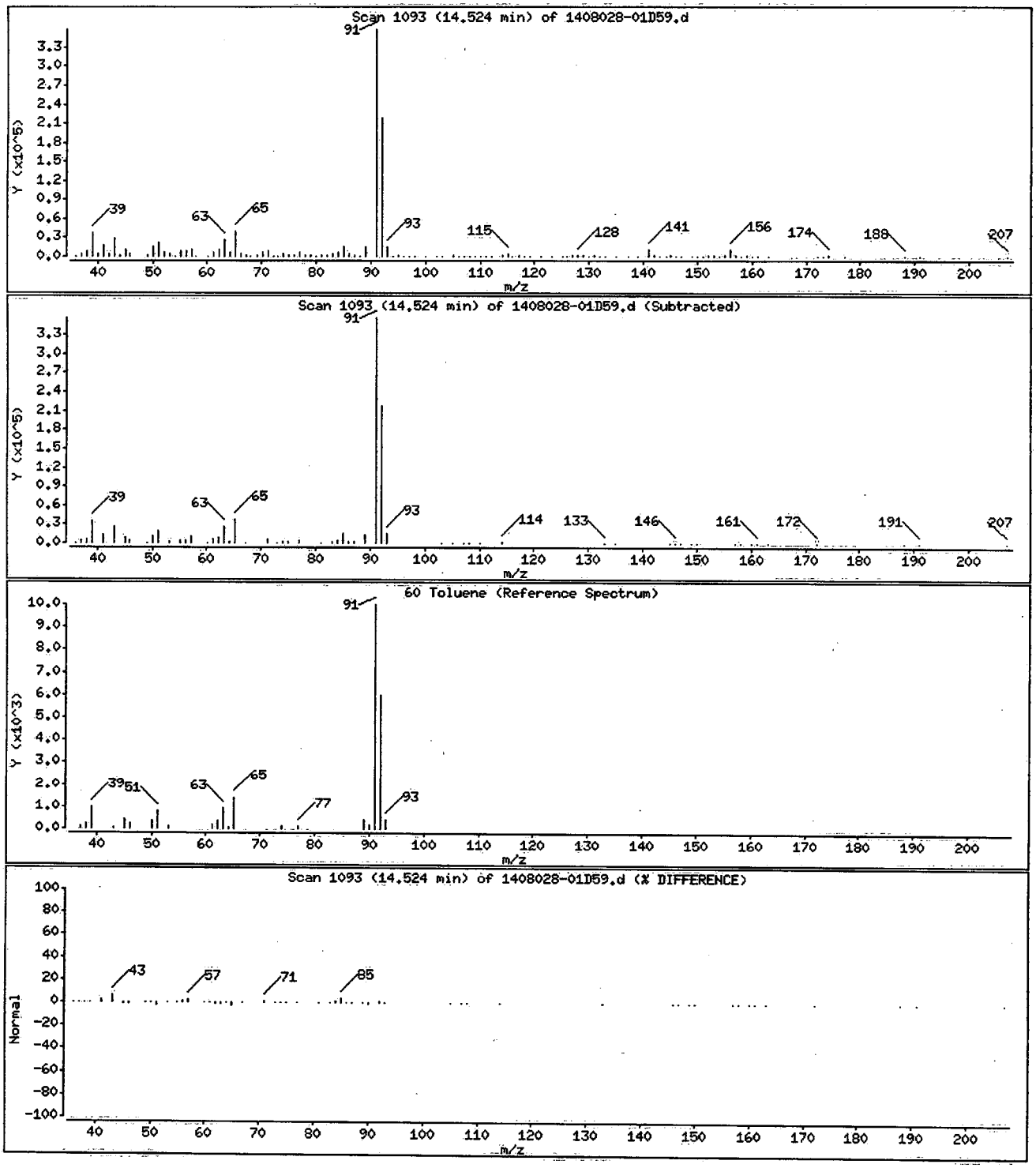
Client ID: P001-COMP02-LW-01 Instrument: 5972hp59.i

Sample Info: 1408028-01:JAO

Operator: JAO

Column phase: SPB-624 Column diameter: 0.32

60 Toluene Concentration: 16958.1 ug/Kg



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Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-01D59.d

Date : 14-AUG-2014 00:23

Client ID: P001-COMP02-LW-01

Instrument: 5972hp59.i

Sample Info: 1408028-01:JAO

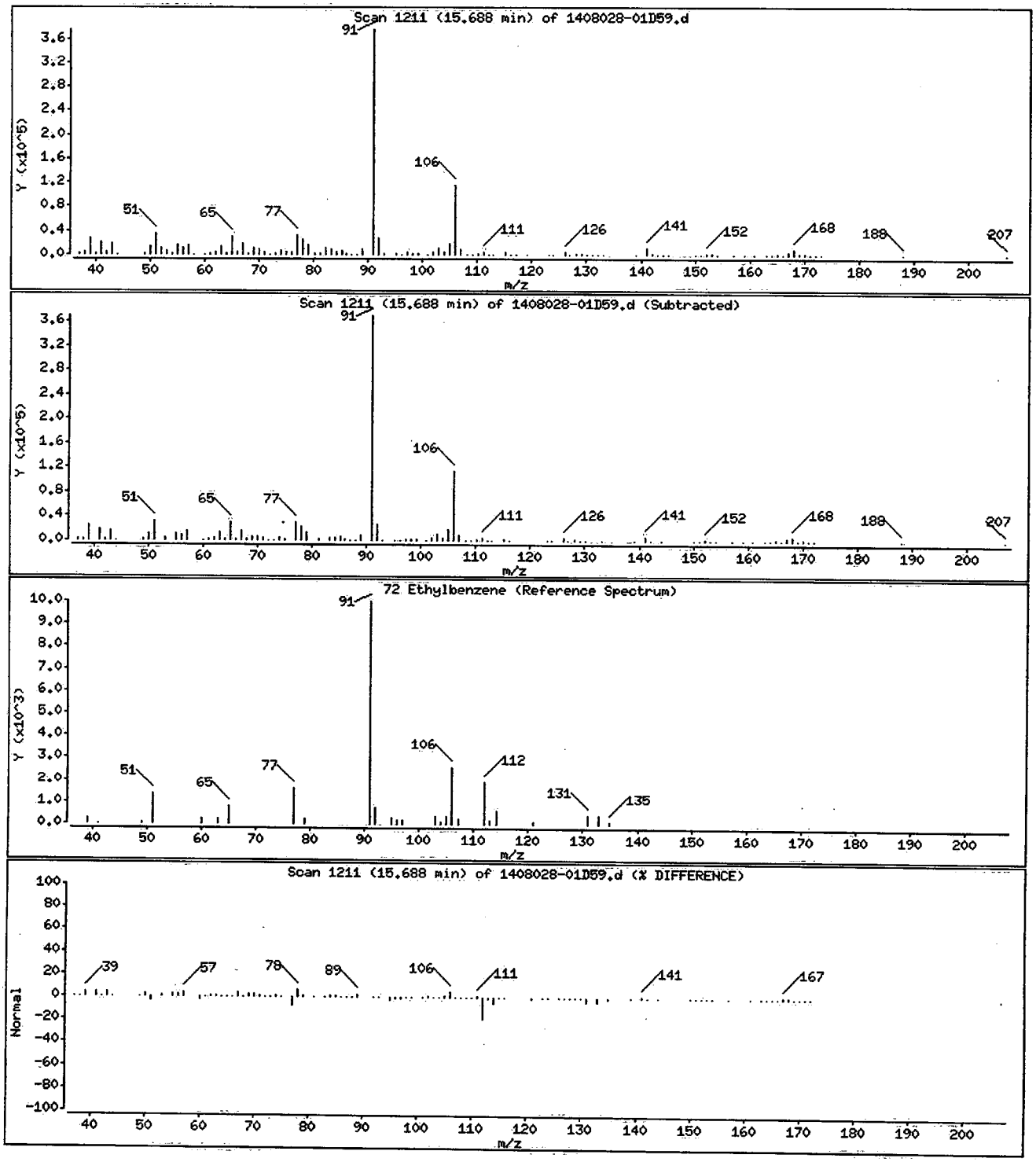
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

72 Ethylbenzene

Concentration: 15301.8 ug/Kg



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Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-01D59.d

Date : 14-AUG-2014 00:23

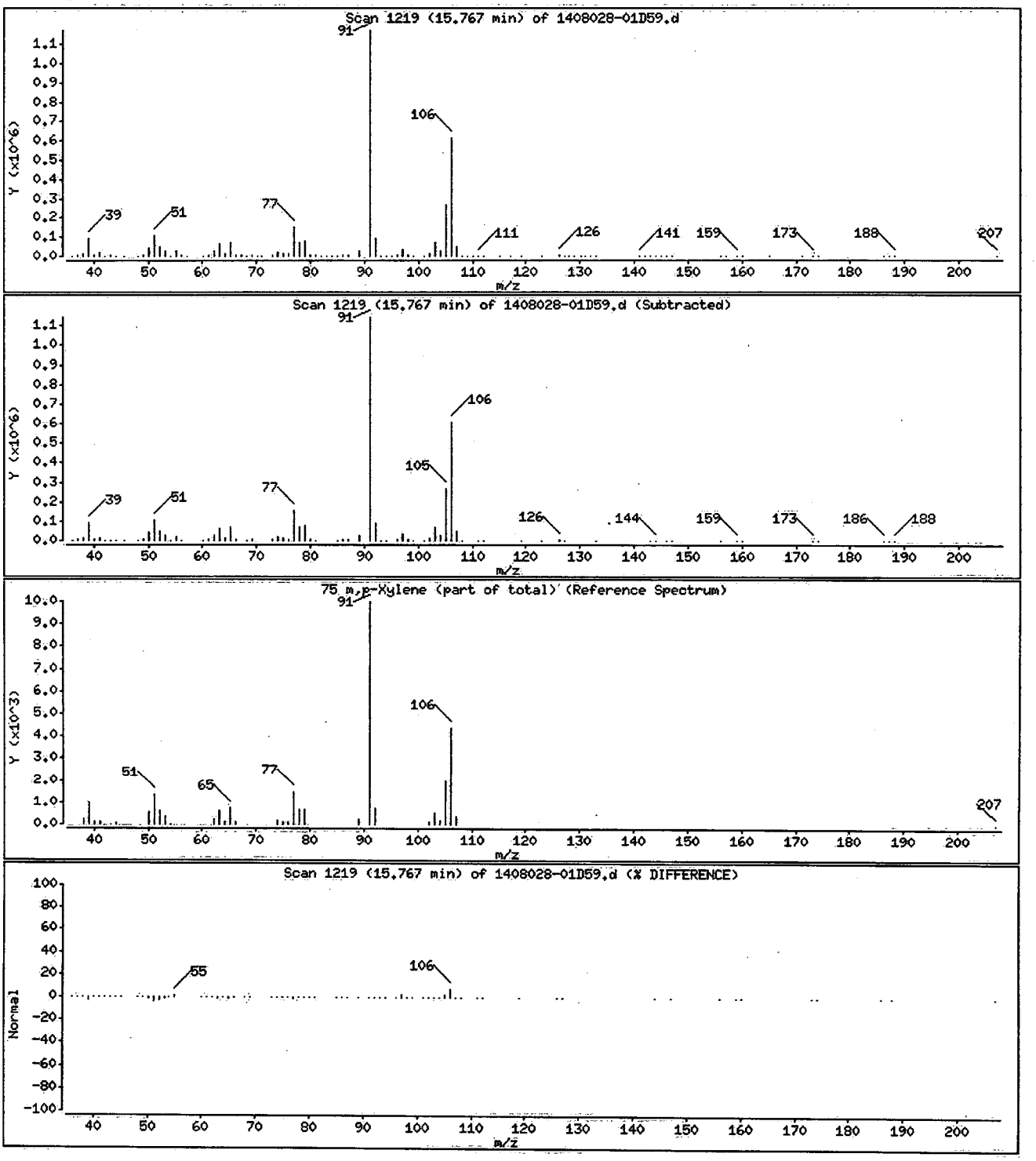
Client ID: P001-COMP02-LW-01 Instrument: 5972hp59.i

Sample Info: 1408028-01:JAO

Operator: JAO

Column phase: SPB-624 Column diameter: 0.32

75 m,p-Xylene (part of total) Concentration: 63528.1 ug/Kg



Roldan Hani 8/14/2014

Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-01D59.d

Date : 14-AUG-2014 00:23

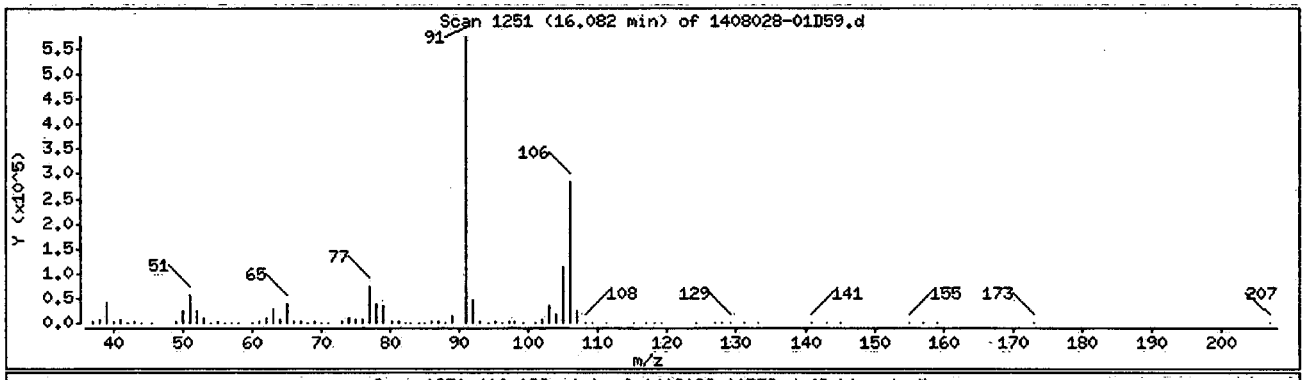
Client ID: P001-COMP02-LW-01 Instrument: 5972hp59.i

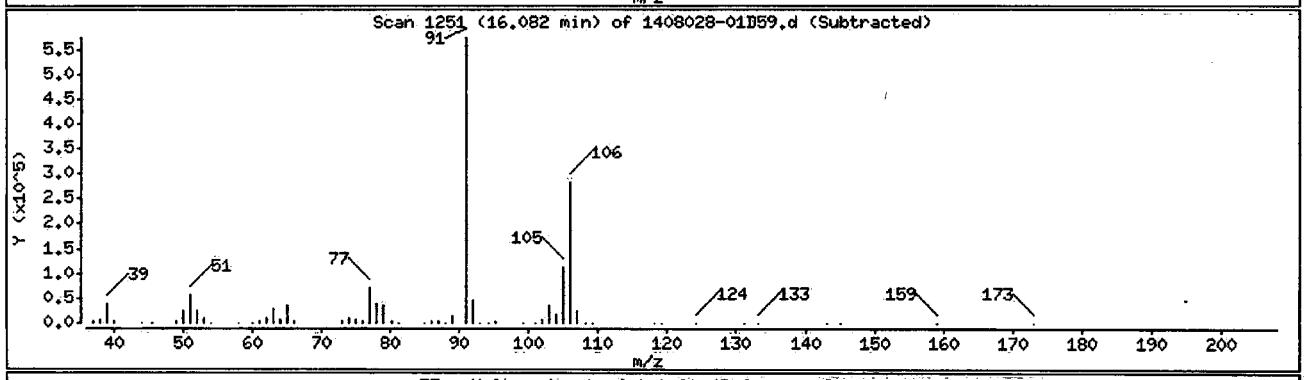
Sample Info: 1408028-01:JAO

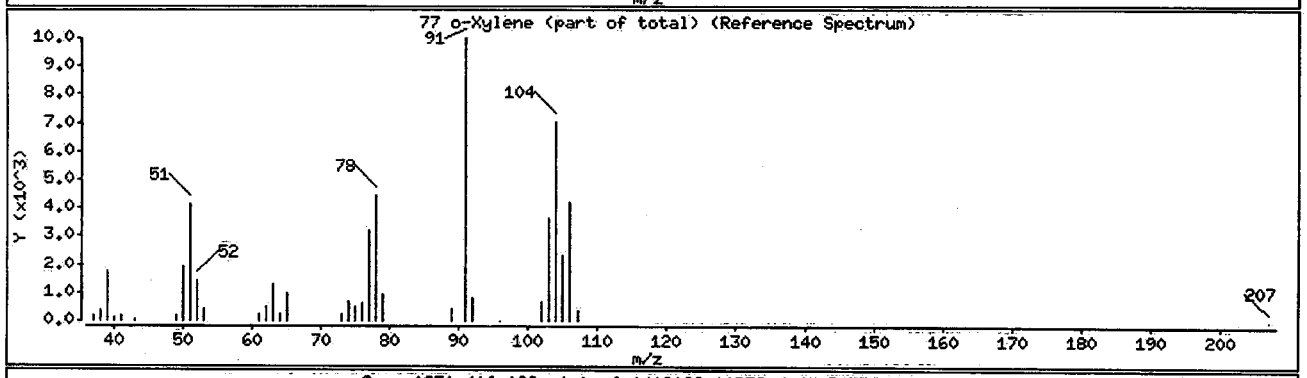
Operator: JAO

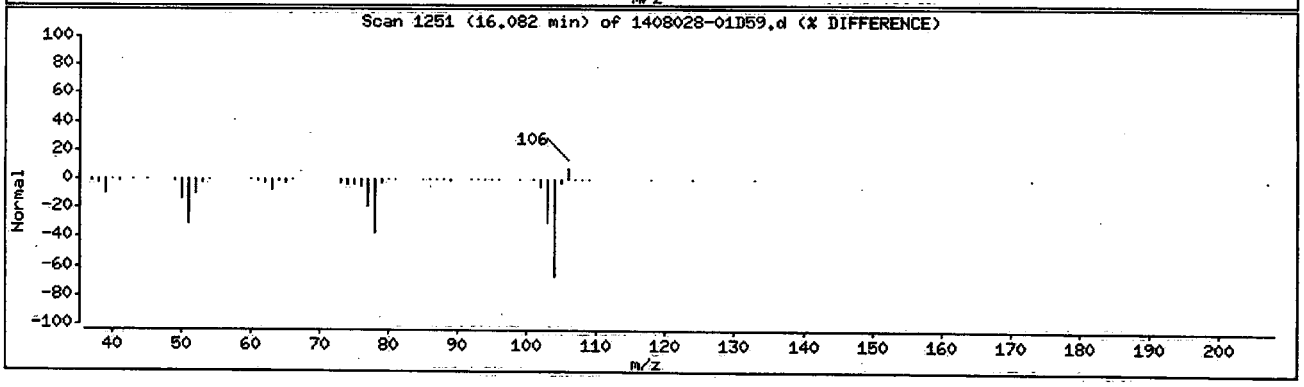
Column phase: SPB-624 Column diameter: 0.32

77 o-Xylene (part of total) Concentration: 31657.4 ug/Kg









8/14/2014

Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-01D59.d

Date : 14-AUG-2014 00:23

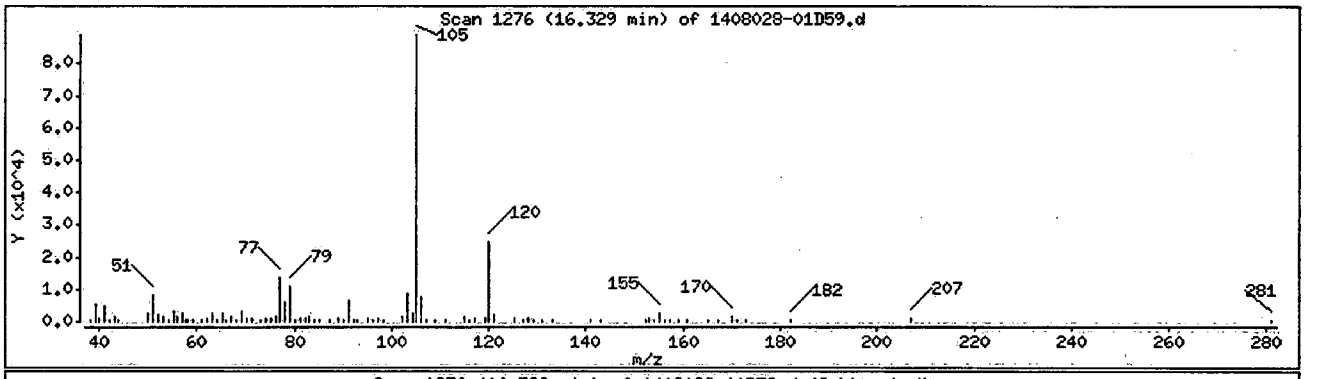
Client ID: P001-COMP02-LW-01 | Instrument: 5972hp59.i

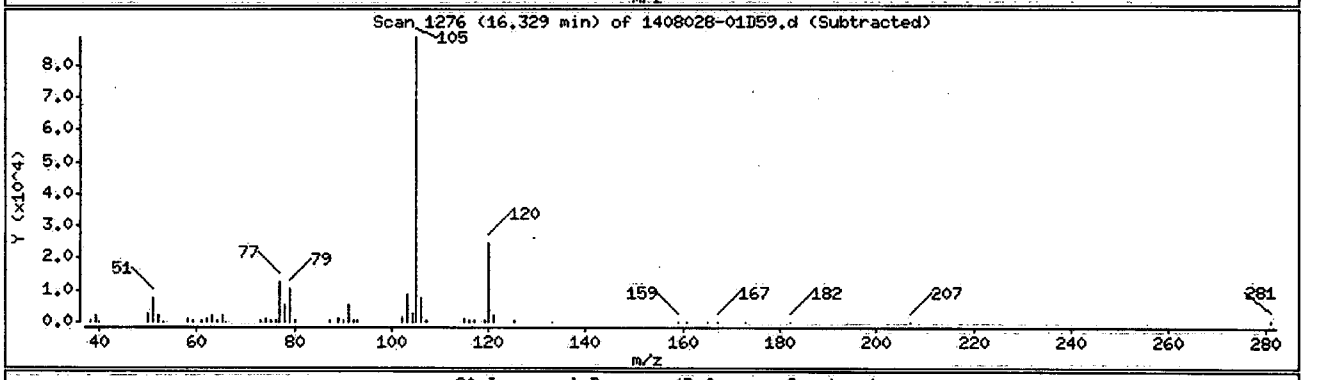
Sample Info: 1408028-01:JAO

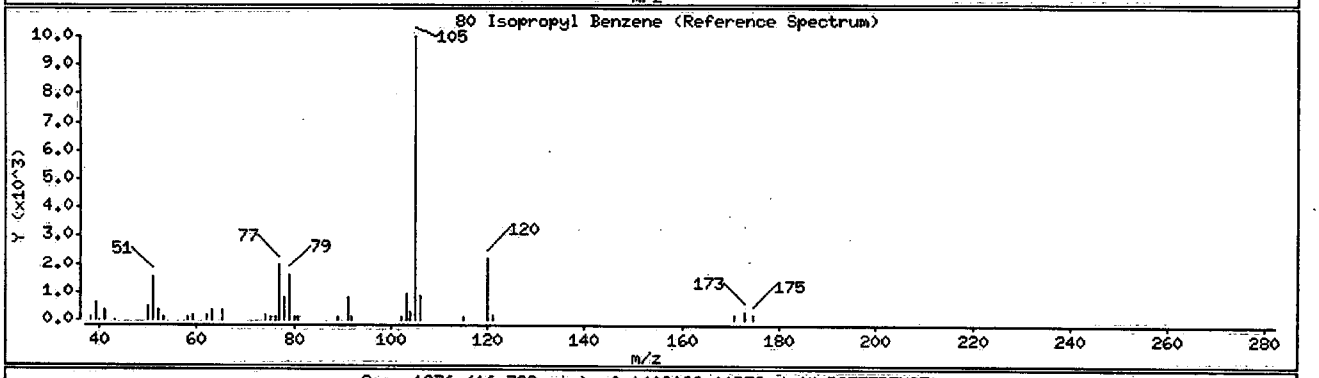
Operator: JAO

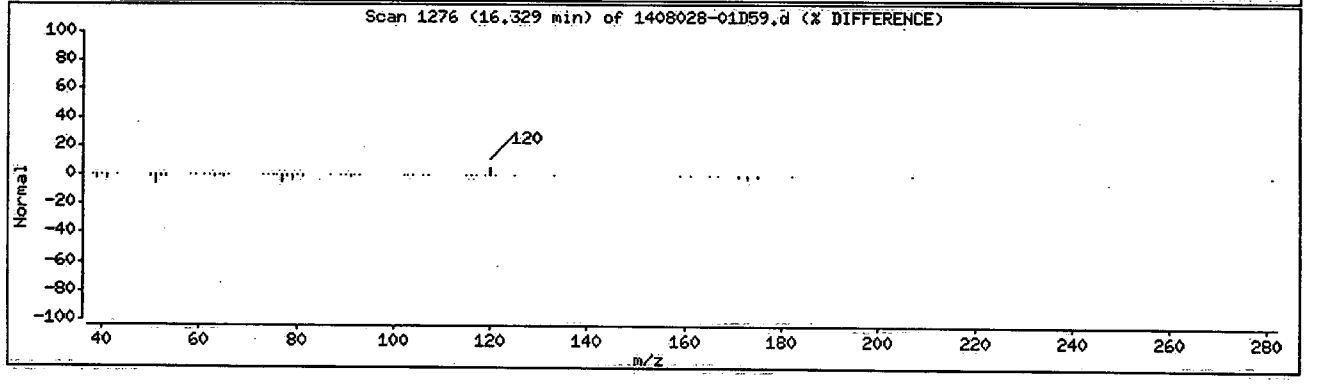
Column phase: SPB-624 | Column diameter: 0.32

80 Isopropyl Benzene | Concentration: 4153.23 ug/Kg









8/14/2014

Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-01D59.d

Date : 14-AUG-2014 00:23

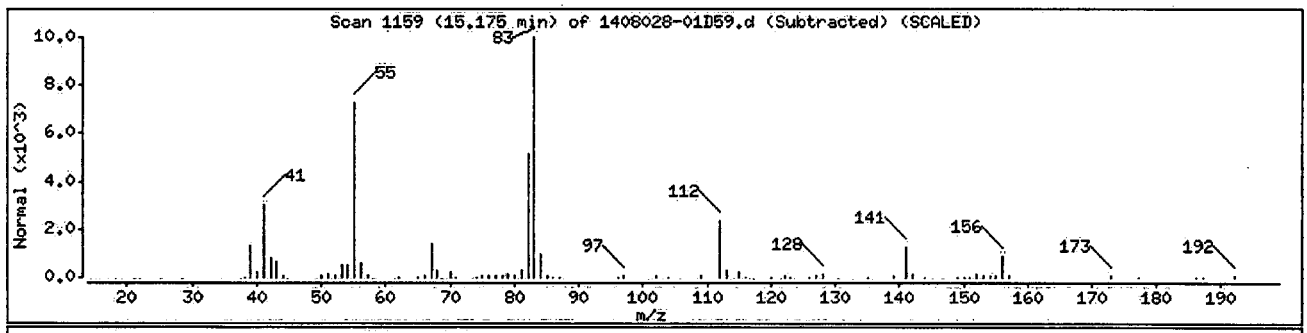
Client ID: P001-COMP02-LW-01 Instrument: 5972hp59.i

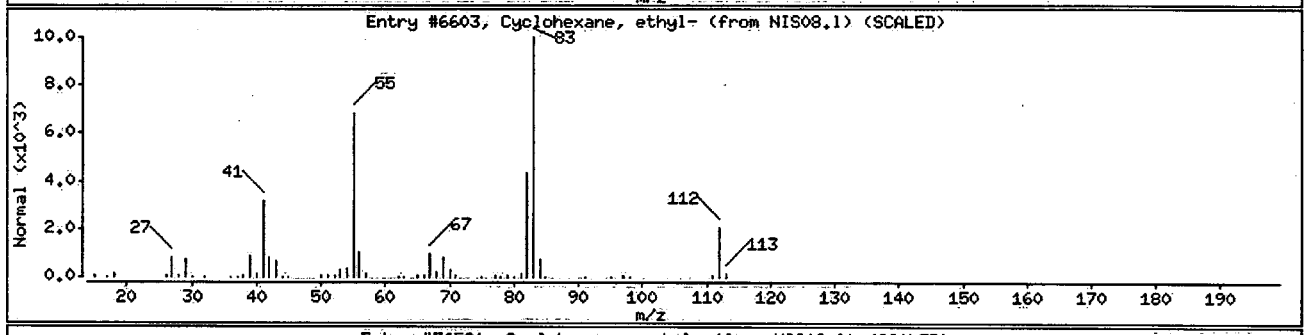
Sample Info: 1408028-01:JAO

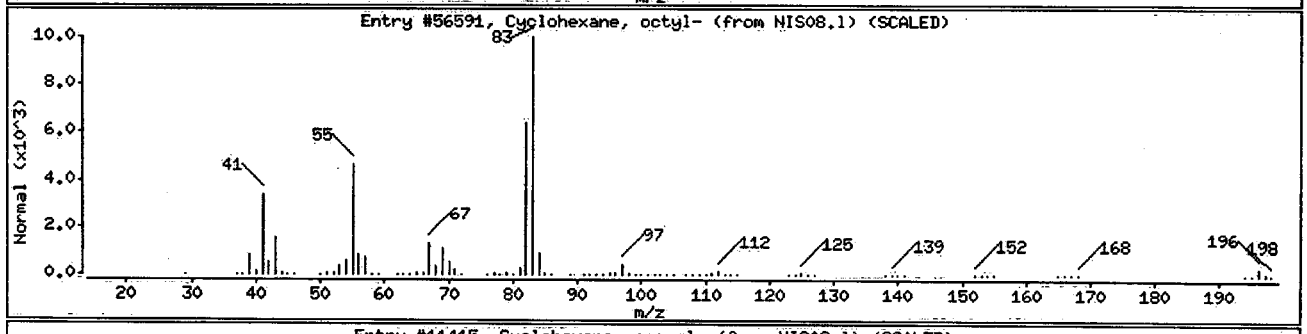
Operator: JAO

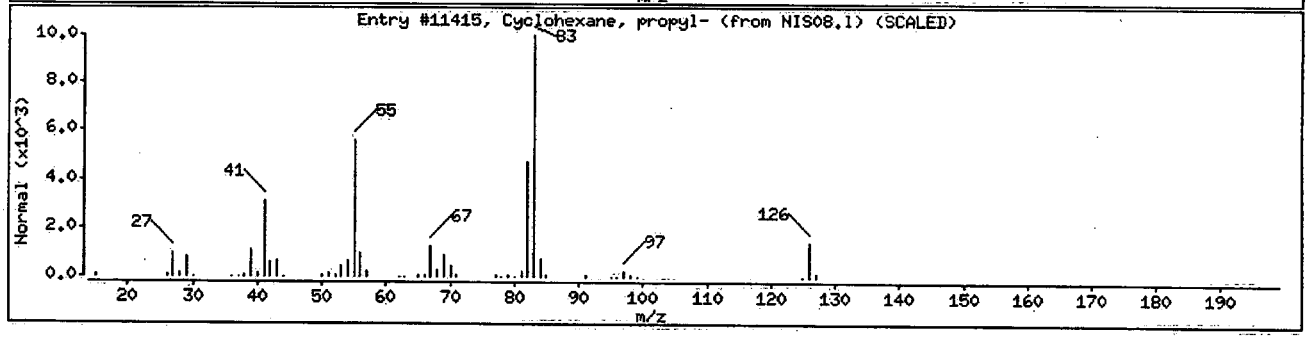
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unk. Alkane						
Cyclohexane, ethyl-	1678-91-7	NIS08.l	6603	87	C8H16	112
Cyclohexane, octyl-	1795-15-9	NIS08.l	56591	59	C14H28	196
Cyclohexane, propyl-	1678-92-8	NIS08.l	11415	59	C9H18	126









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Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-01D59.d

Date : 14-AUG-2014 00:23

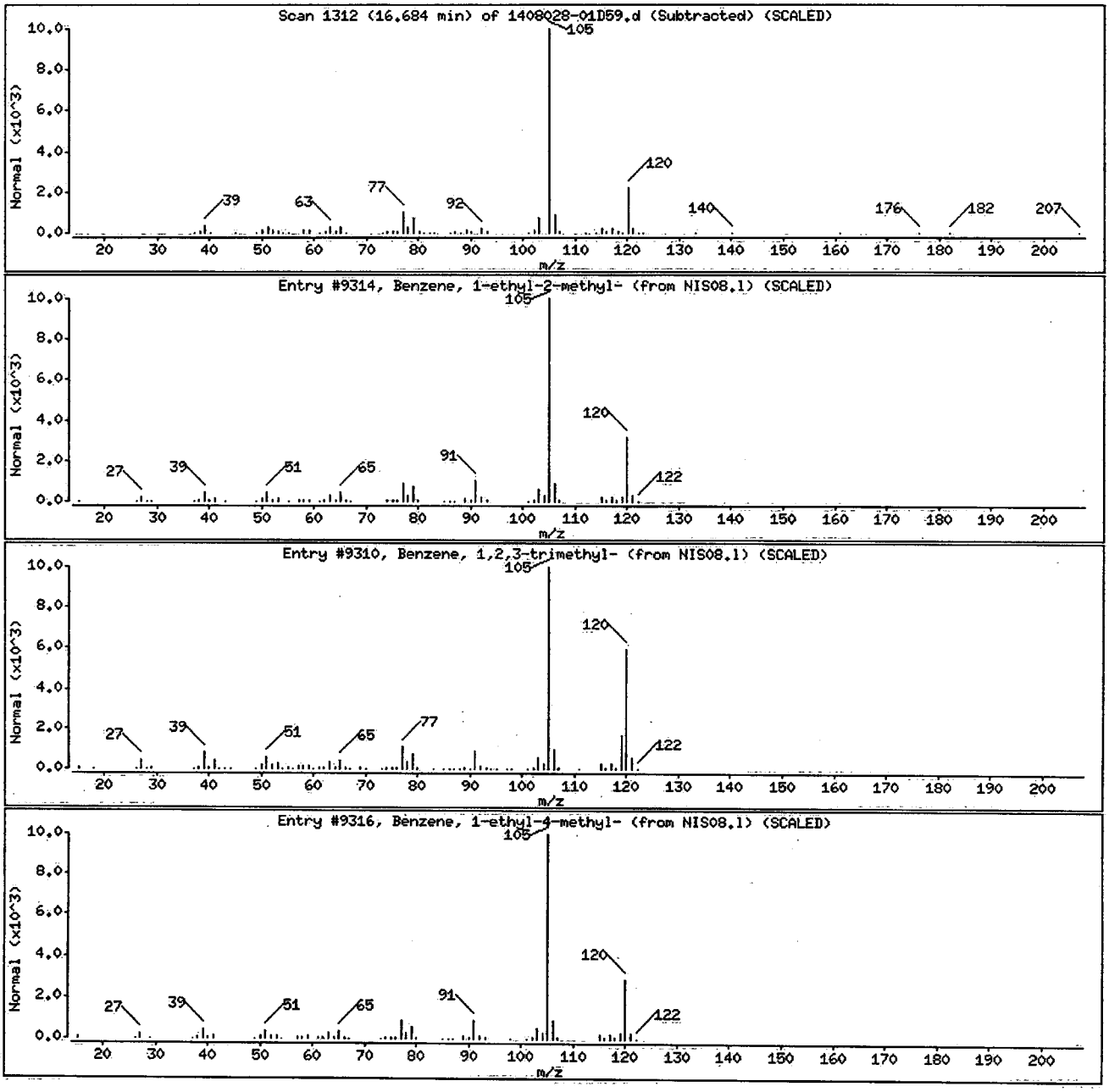
Client ID: P001-COMP02-LW-01 Instrument: 5972hp59.i

Sample Info: 1408028-01:JAO

Operator: JAO

Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1-ethyl-2-methyl-	611-14-3	NIS08.l	9314	91	C9H12	120
Benzene, 1,2,3-trimethyl-	526-73-8	NIS08.l	9310	91	C9H12	120
Benzene, 1-ethyl-4-methyl-	622-96-8	NIS08.l	9316	91	C9H12	120



8/14/2014

Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-01D59.d

Date : 14-AUG-2014 00:23

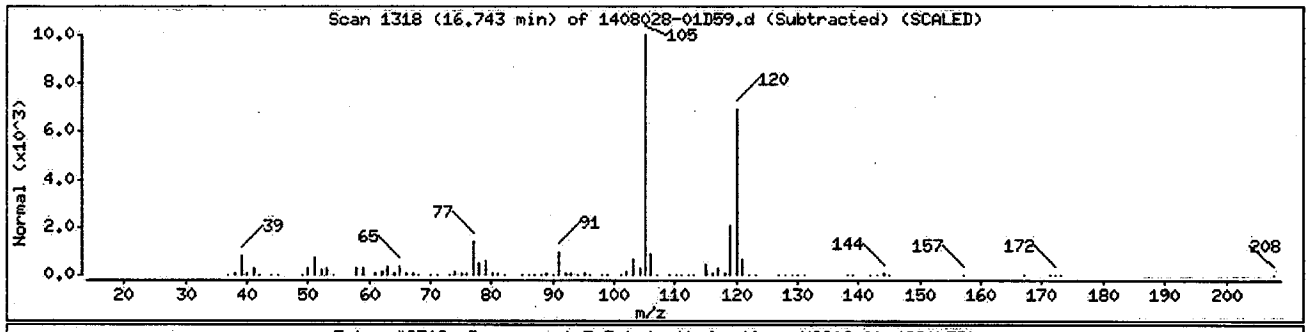
Client ID: P001-COMP02-LW-01 Instrument: 5972hp59.i

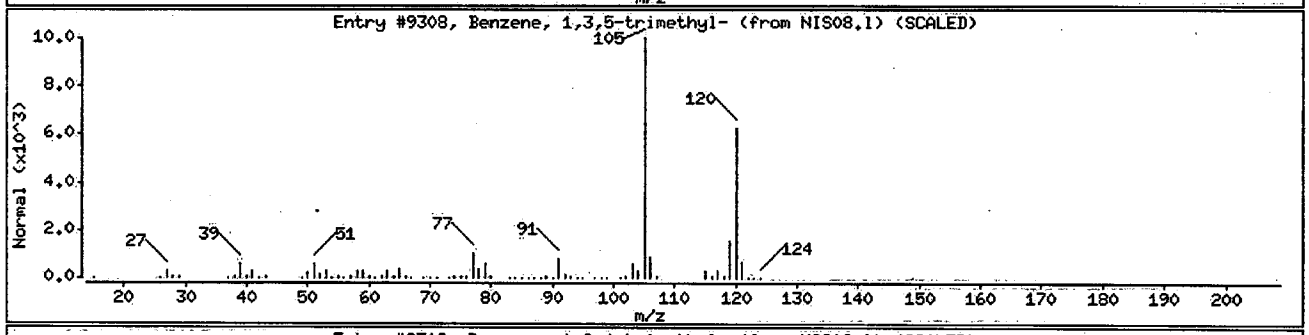
Sample Info: 1408028-01:JAO

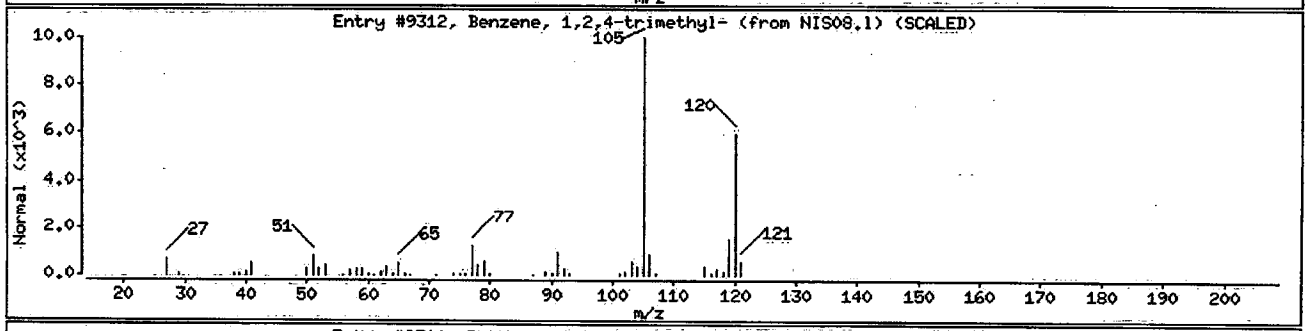
Operator: JAO

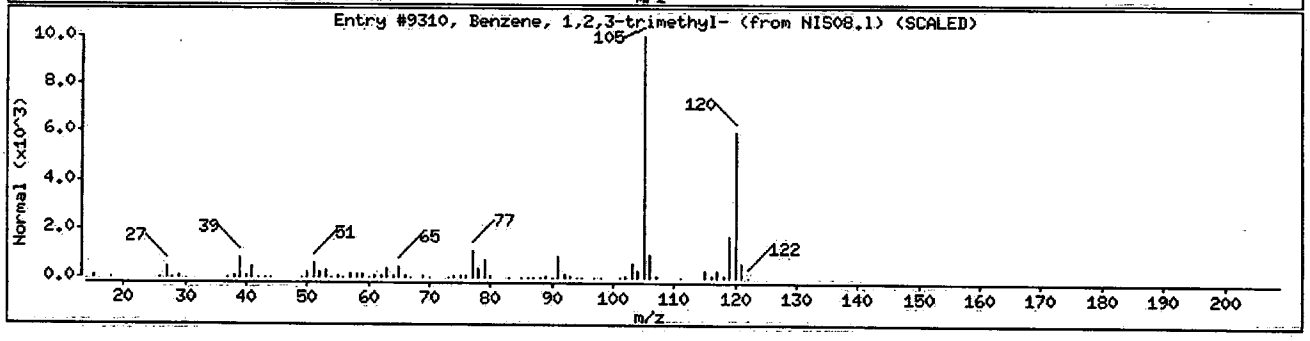
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1,3,5-trimethyl-	108-67-8	NIS08.l	9308	97	C9H12	120
Benzene, 1,2,4-trimethyl-	95-63-6	NIS08.l	9312	91	C9H12	120
Benzene, 1,2,3-trimethyl-	526-73-8	NIS08.l	9310	91	C9H12	120









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Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-01D59.d

Date : 14-AUG-2014 00:23

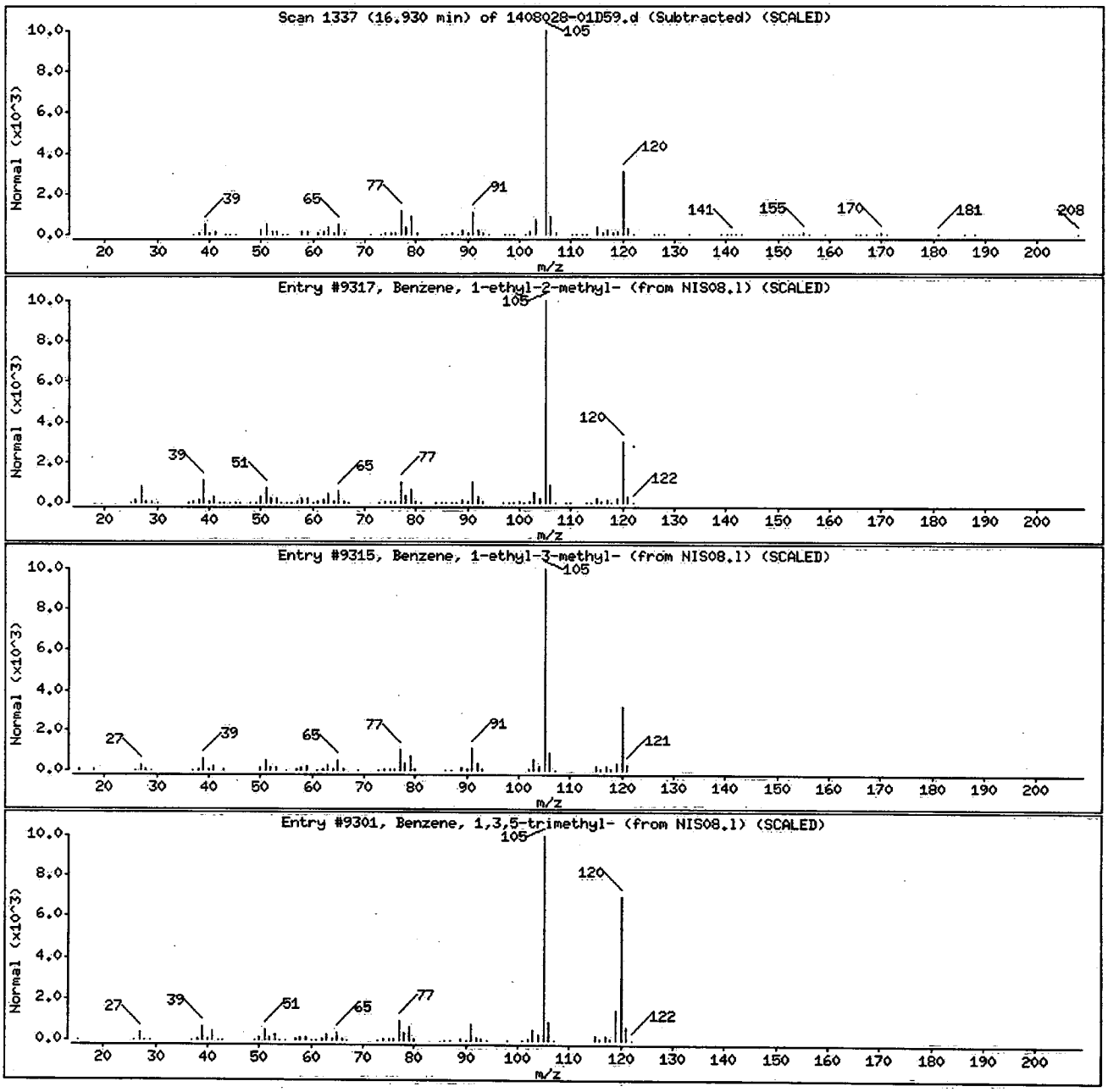
Client ID: P001-COMP02-LW-01 Instrument: 5972hp59.i

Sample Info: 1408028-01:JAO

Operator: JAO

Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1-ethyl-2-methyl-	611-14-3	NIS08.l	9317	94	C9H12	120
Benzene, 1-ethyl-3-methyl-	620-14-4	NIS08.l	9315	91	C9H12	120
Benzene, 1,3,5-trimethyl-	108-67-8	NIS08.l	9301	91	C9H12	120



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Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-01D59.d

Date : 14-AUG-2014 00:23

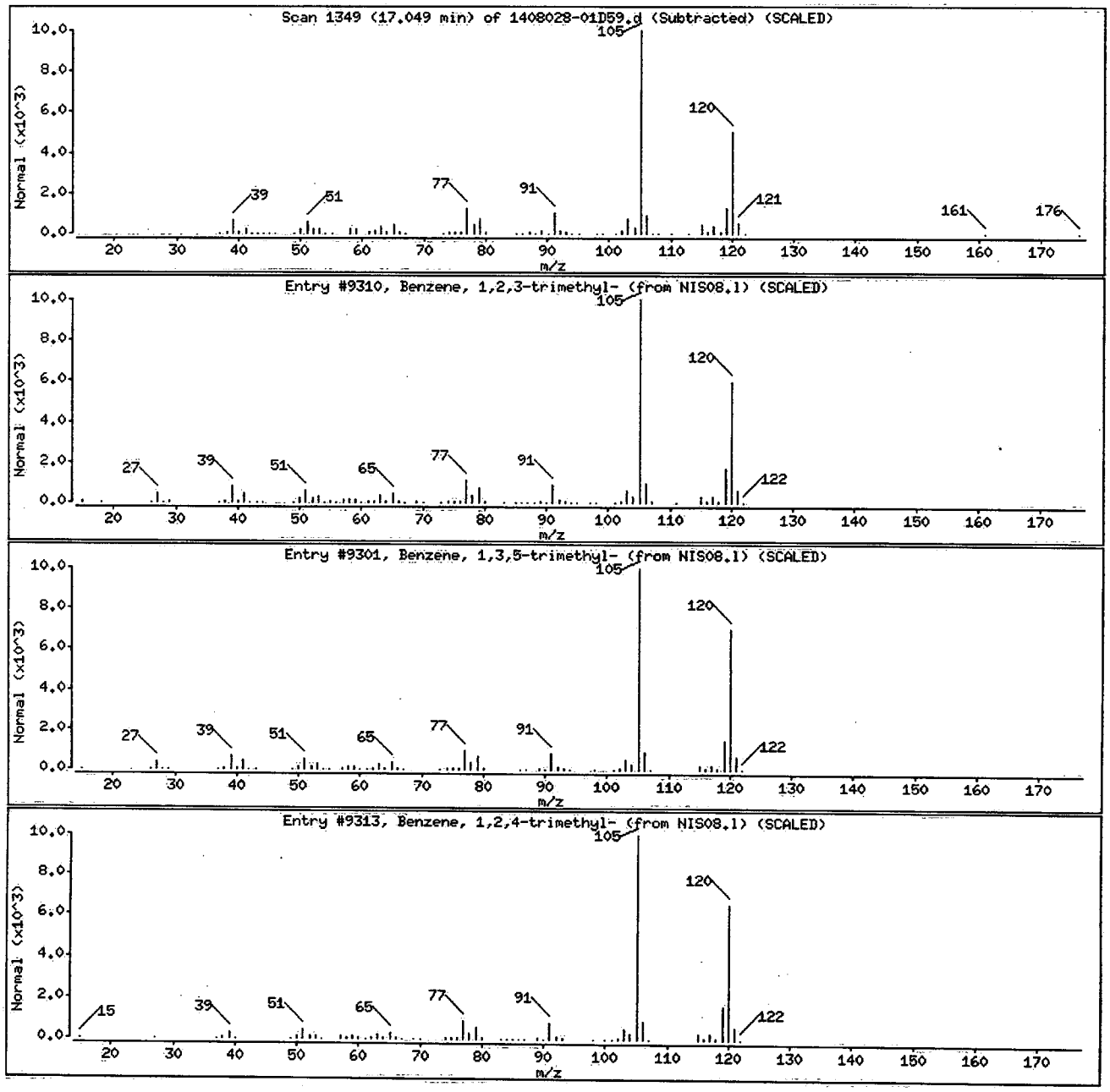
Client ID: P001-COMP02-LW-01 Instrument: 5972hp59.i

Sample Info: 1408028-01:JAO

Operator: JAO

Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1,2,3-trimethyl-	526-73-8	NIS08.l	9310	97	C9H12	120
Benzene, 1,3,5-trimethyl-	108-67-8	NIS08.l	9301	97	C9H12	120
Benzene, 1,2,4-trimethyl-	95-63-6	NIS08.l	9313	95	C9H12	120



8/14/2014

Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-01D59.d

Date : 14-AUG-2014 00:23

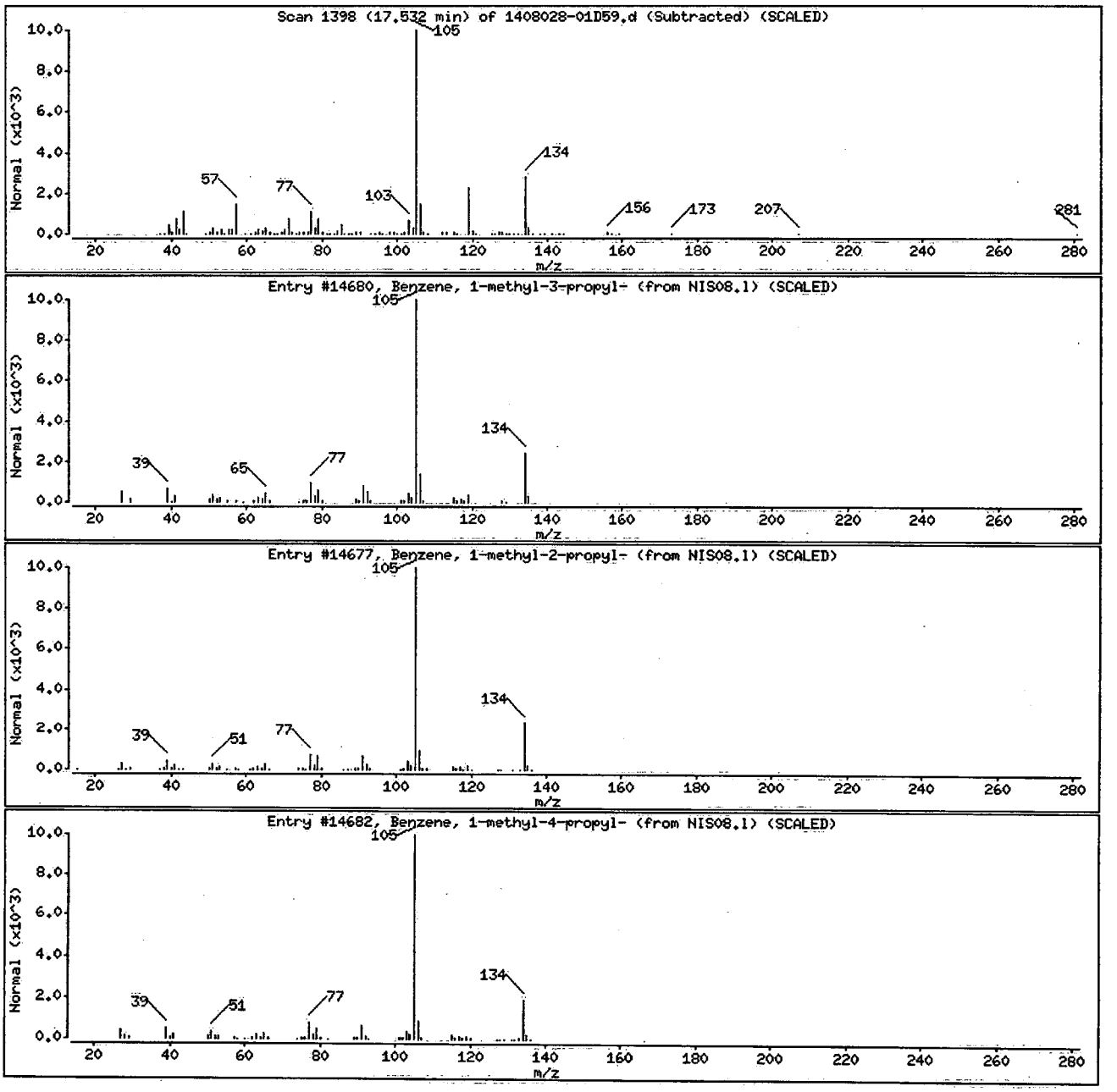
Client ID: P001-COMP02-LW-01 Instrument: 5972hp59.i

Sample Info: 1408028-01:JAO

Operator: JAO

Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Benzene, 1-methyl-3-propyl-	1074-43-7	NIS08.l	14680	58	C10H14	134
Benzene, 1-methyl-2-propyl-	1074-17-5	NIS08.l	14677	52	C10H14	134
Benzene, 1-methyl-4-propyl-	1074-55-1	NIS08.l	14682	52	C10H14	134



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Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-01D59.d

Date : 14-AUG-2014 00:23

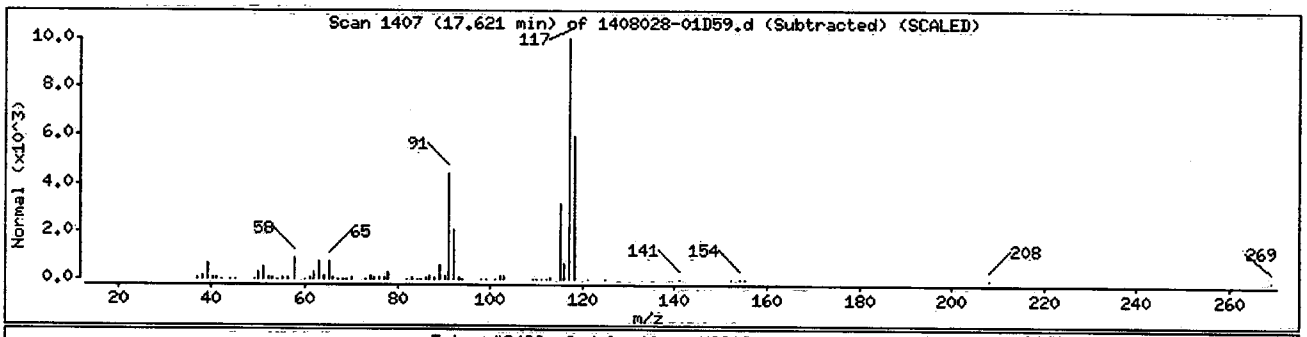
Client ID: P001-COMP02-LW-01 Instrument: 5972hp59.i

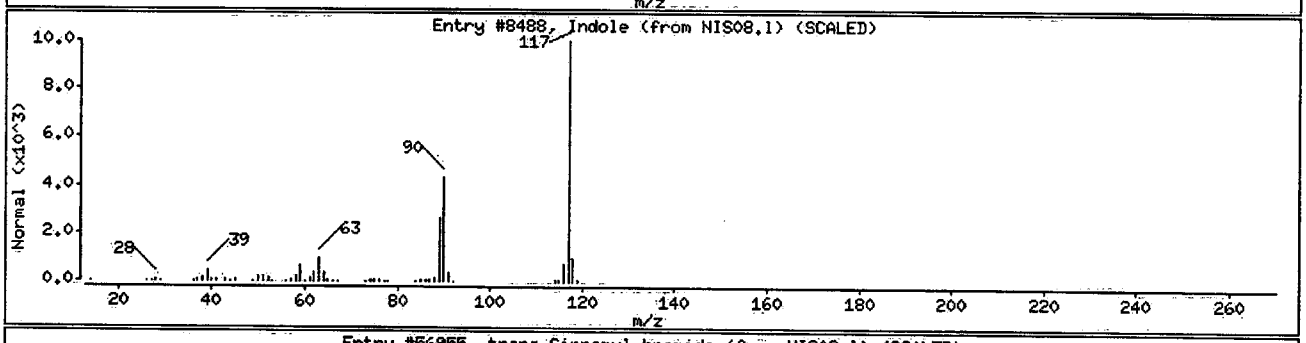
Sample Info: 1408028-01:JAO

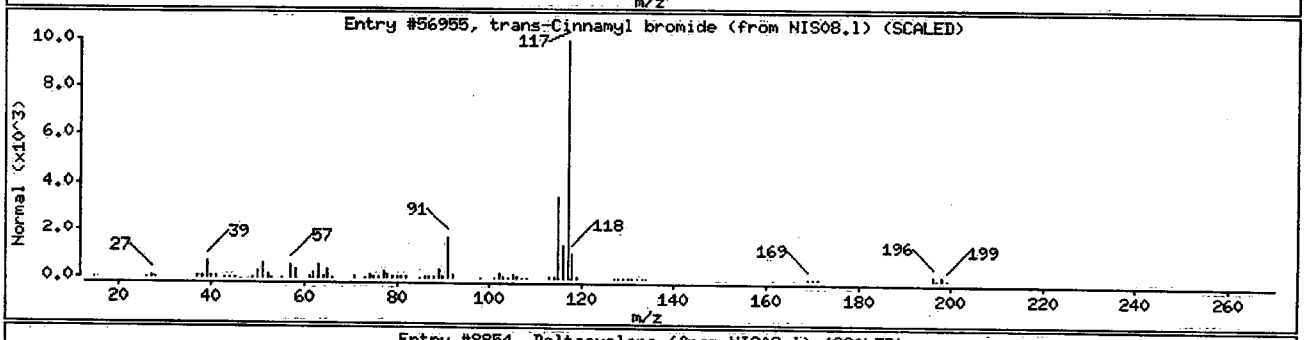
Operator: JAO

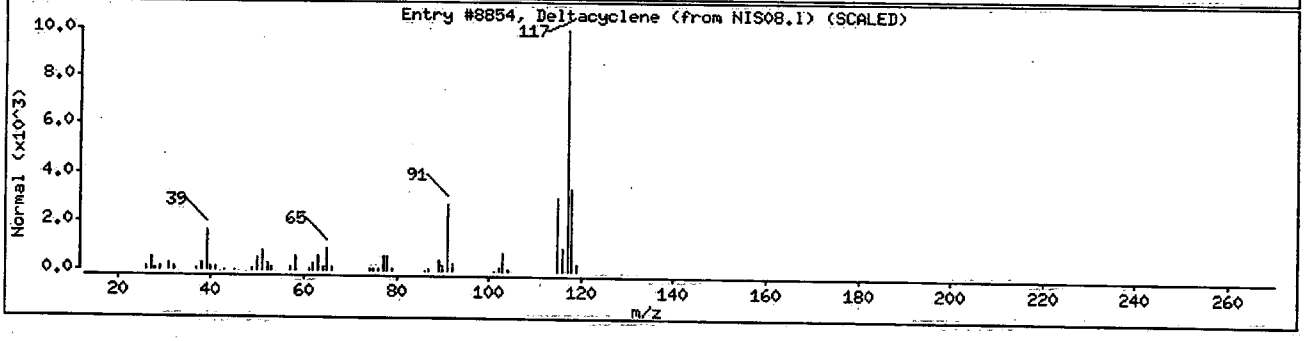
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Indole	120-72-9	NIS08.l	8488	43	C8H7N	117
trans-Cinnamyl bromide	26146-77-0	NIS08.l	56955	38	C9H9Br	196
Deltacyclene	7785-10-6	NIS08.l	8854	33	C9H10	118









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Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-01D59.d

Date : 14-AUG-2014 00:23

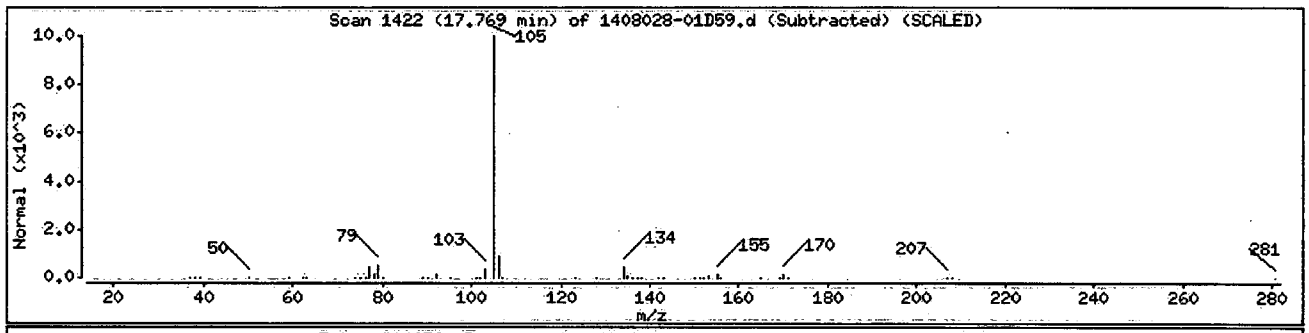
Client ID: P001-COMP02-LW-01 Instrument: 5972hp59.i

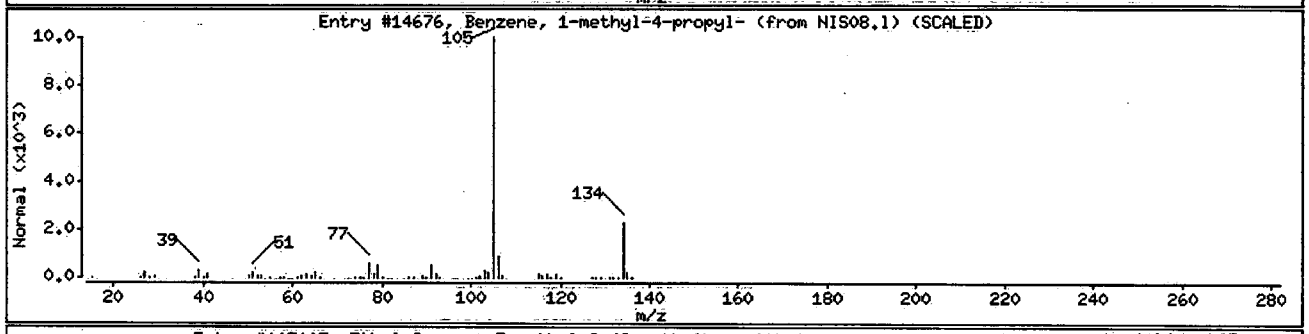
Sample Info: 1408028-01:JAO

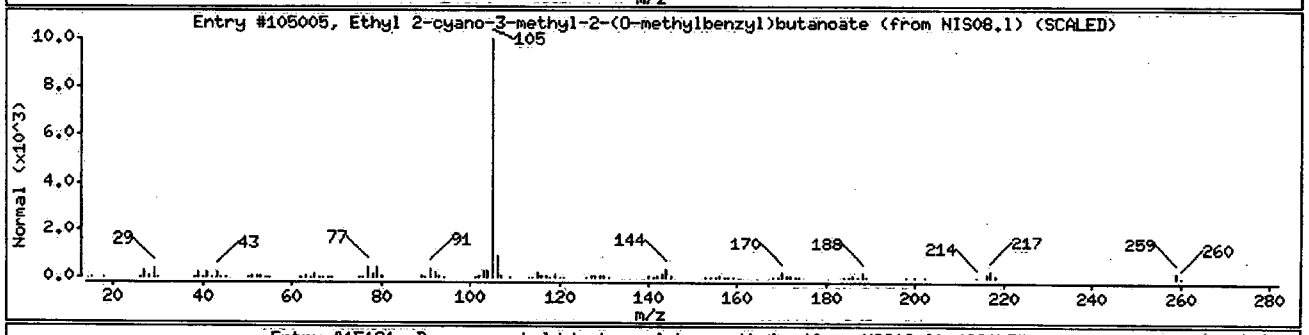
Operator: JAO

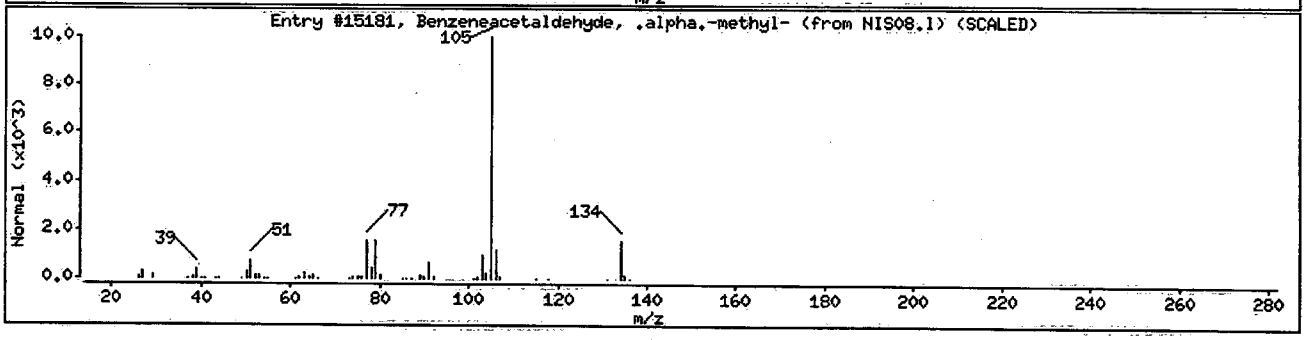
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Benzene, 1-methyl-4-propyl-	1074-55-1	NIS08.l	14676	72	C10H14	134
Ethyl 2-cyano-3-methyl-2-(O-methylbenzyl	29107-35-5	NIS08.l	105005	50	C16H21NO2	259
Benzeneacetaldehyde, .alpha.-methyl-	93-53-8	NIS08.l	15181	50	C9H10O	134









8/14/2014

Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-01D59.d

Date : 14-AUG-2014 00:23

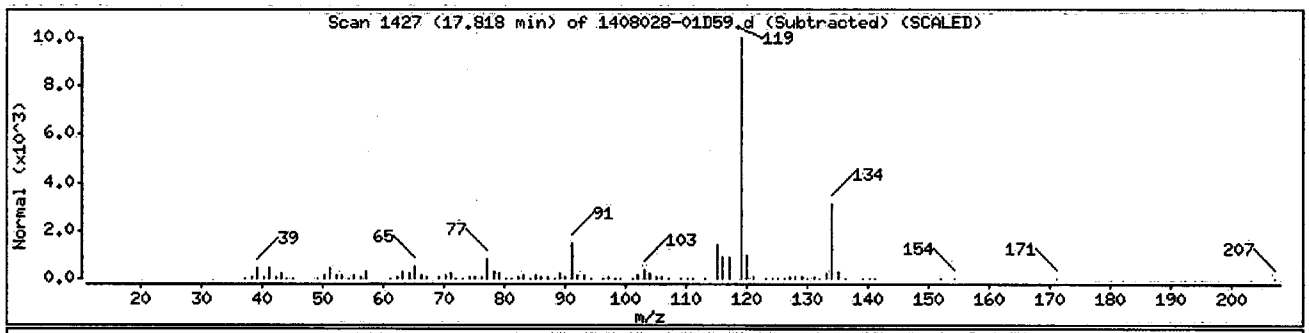
Client ID: P001-COMP02-LW-01 Instrument: 5972hp59.i

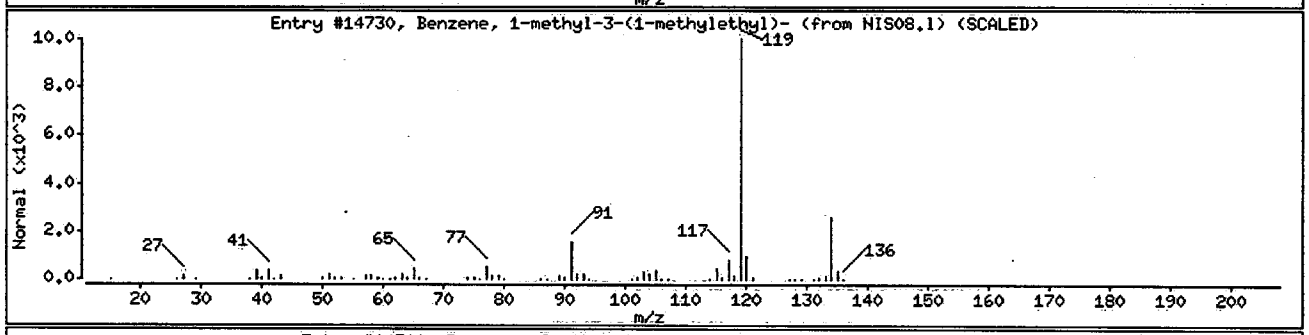
Sample Info: 1408028-01:JAO

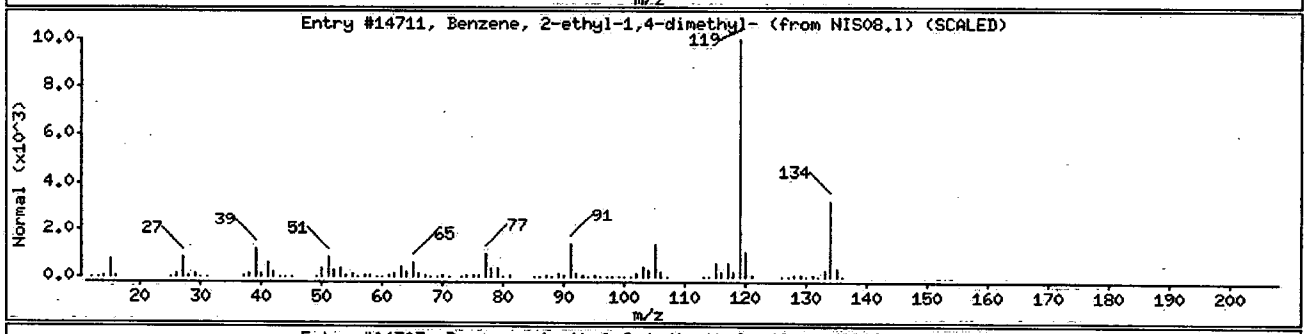
Operator: JAO

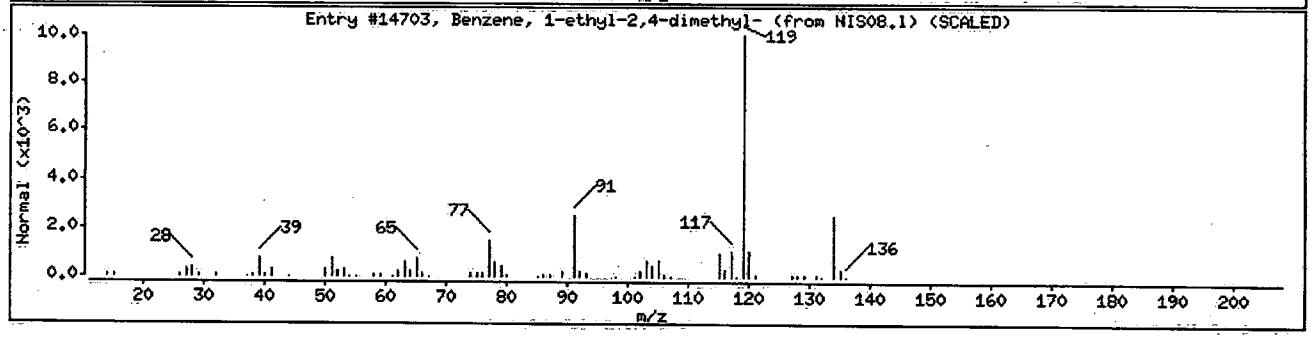
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1-methyl-3-(1-methylethyl)-	535-77-3	NIS08.l	14730	91	C10H14	134
Benzene, 2-ethyl-1,4-dimethyl-	1758-88-9	NIS08.l	14711	91	C10H14	134
Benzene, 1-ethyl-2,4-dimethyl-	874-41-9	NIS08.l	14703	91	C10H14	134









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Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-01D59.d

Date : 14-AUG-2014 00:23

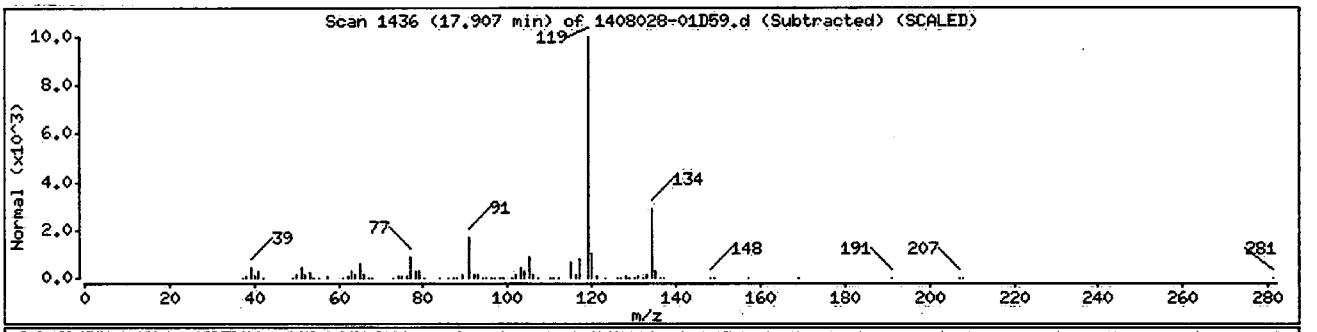
Client ID: P001-COMP02-LW-01 Instrument: 5972hp59.i

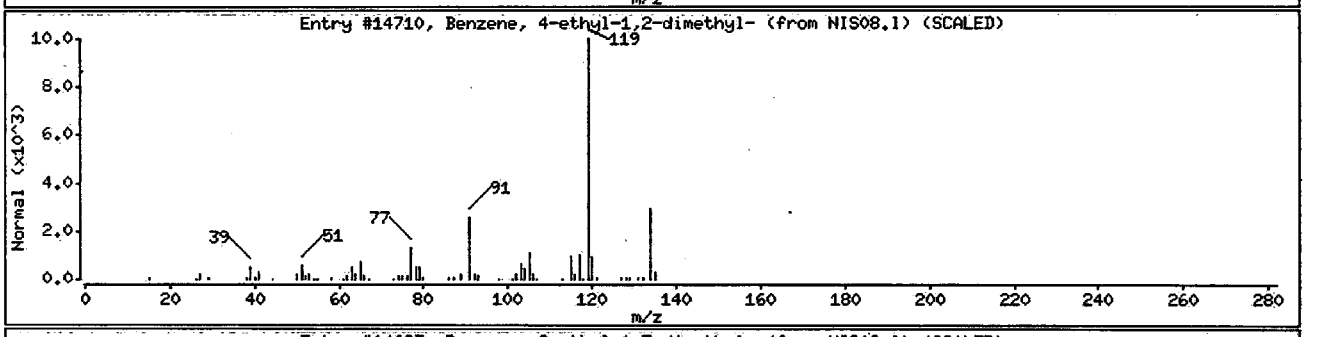
Sample Info: 1408028-01:JAO

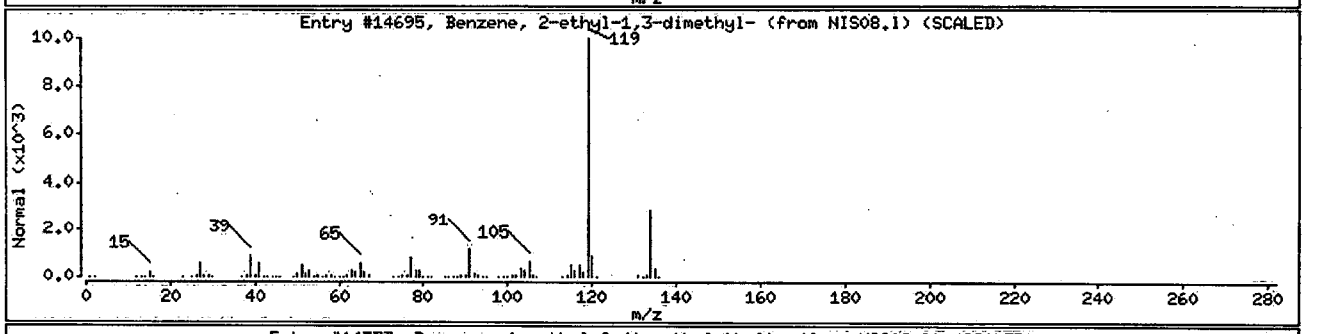
Operator: JAO

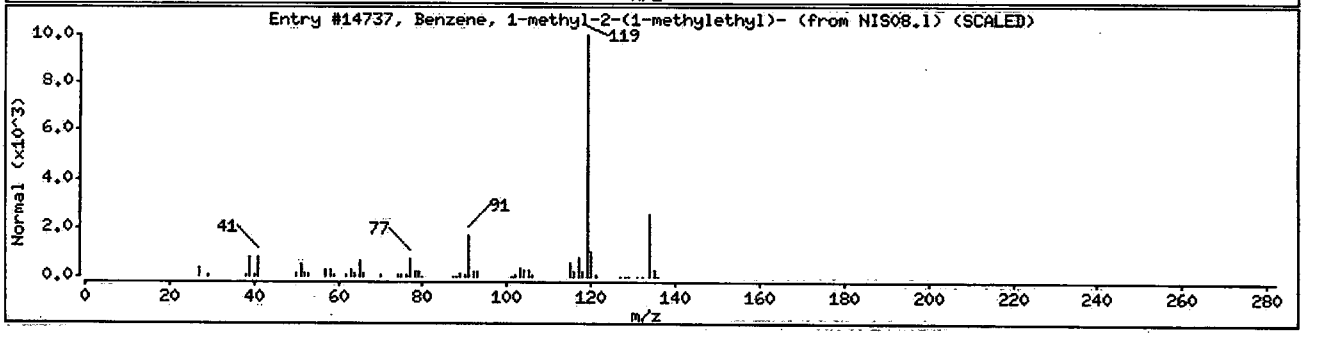
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 4-ethyl-1,2-dimethyl-	934-80-5	NIS08.l	14710	96	C10H14	134
Benzene, 2-ethyl-1,3-dimethyl-	2870-04-4	NIS08.l	14695	94	C10H14	134
Benzene, 1-methyl-2-(1-methylethyl)-	527-84-4	NIS08.l	14737	94	C10H14	134









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Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-01D59.d

Date : 14-AUG-2014 00:23

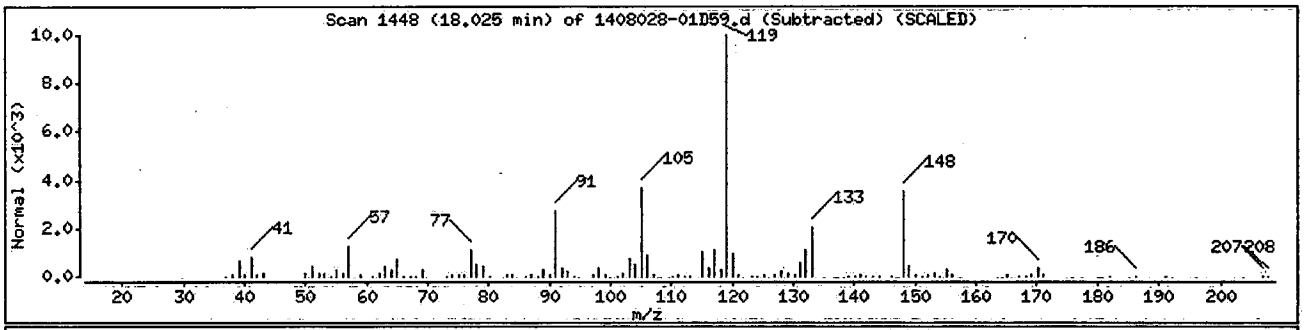
Client ID: P001-COMP02-LW-01 Instrument: 5972hp59.i

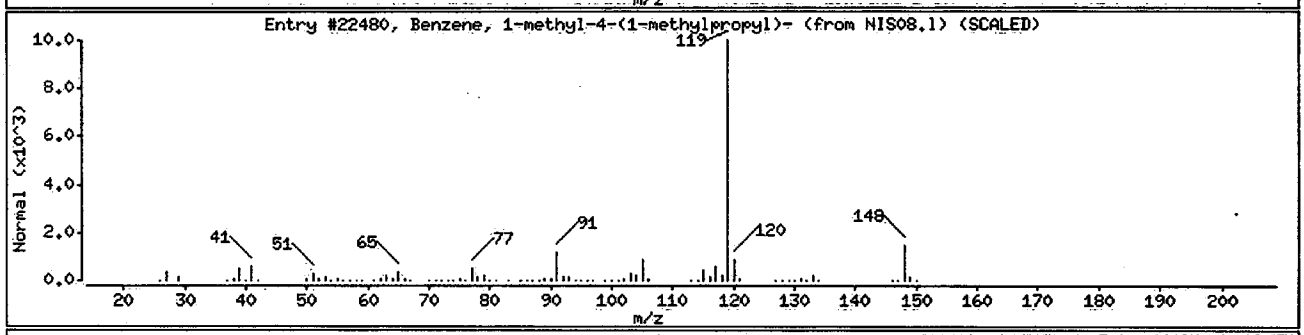
Sample Info: 1408028-01:JAO

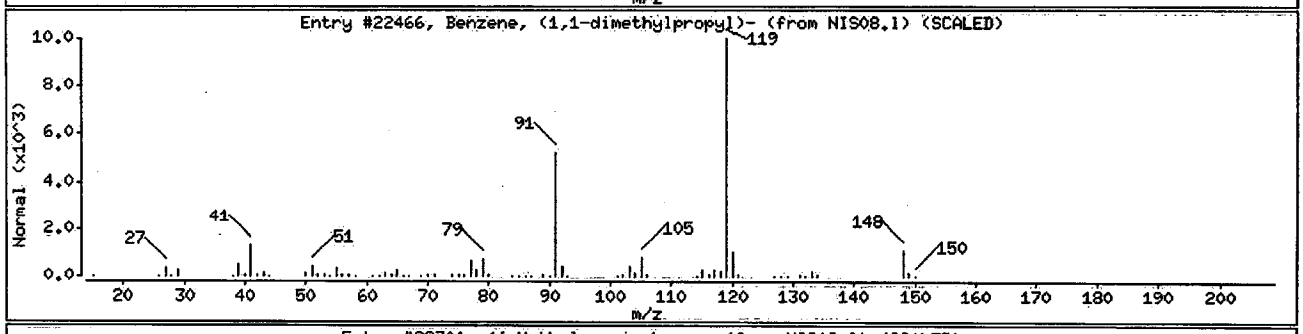
Operator: JAO

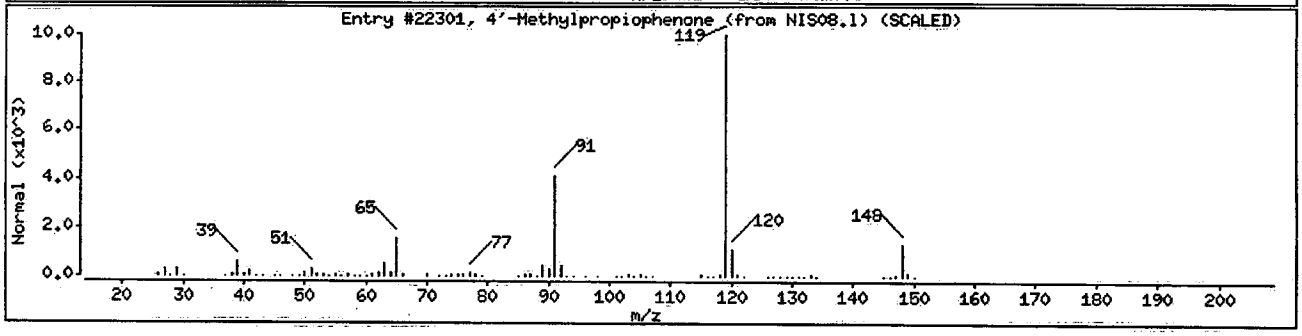
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Benzene, 1-methyl-4-(1-methylpropyl)-	1595-16-0	NIS08.l	22480	76	C11H16	148
Benzene, (1,1-dimethylpropyl)-	2049-95-8	NIS08.l	22466	52	C11H16	148
4'-Methylpropiophenone	5337-93-9	NIS08.l	22301	49	C10H12O	148









8/14/2014

Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-01D59.d

Date : 14-AUG-2014 00:23

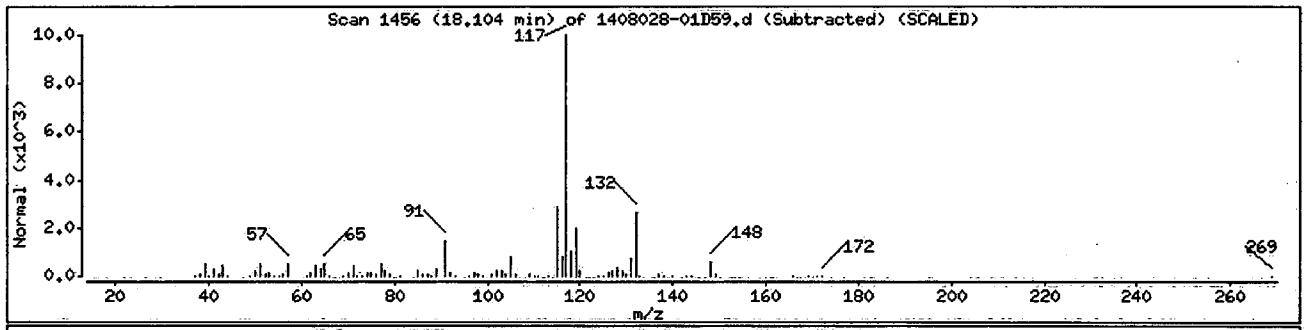
Client ID: P001-COMP02-LW-01 Instrument: 5972hp59.i

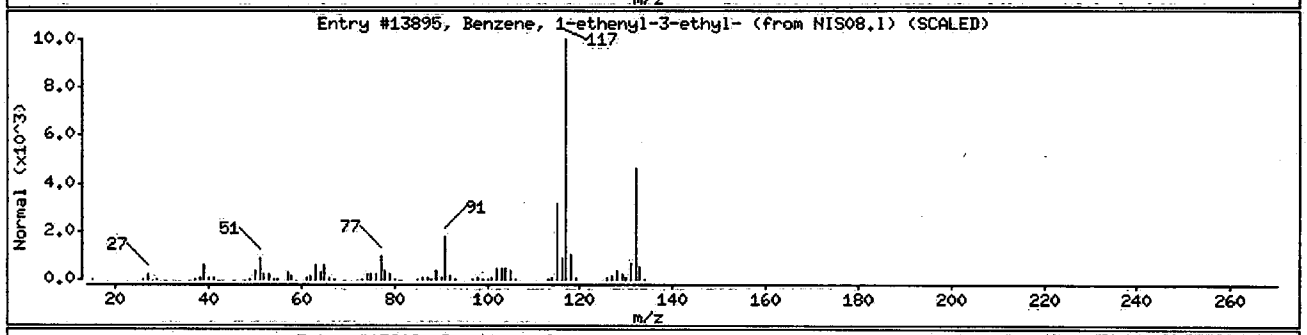
Sample Info: 1408028-01:JAO

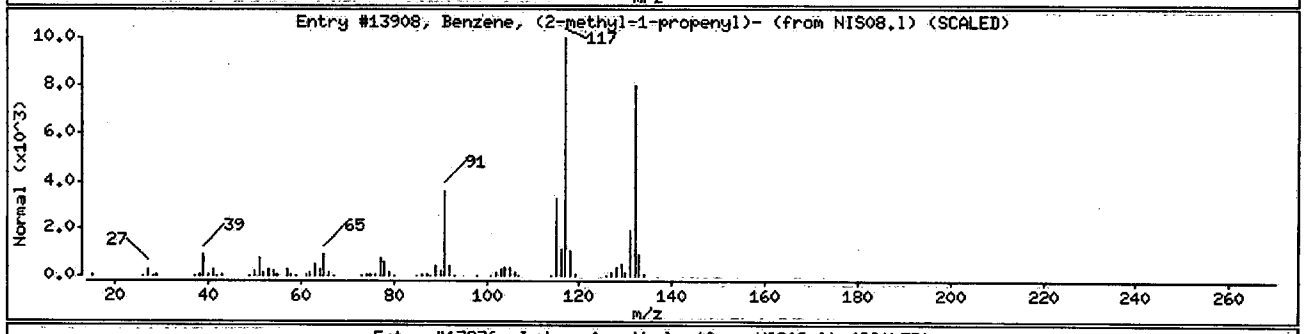
Operator: JAO

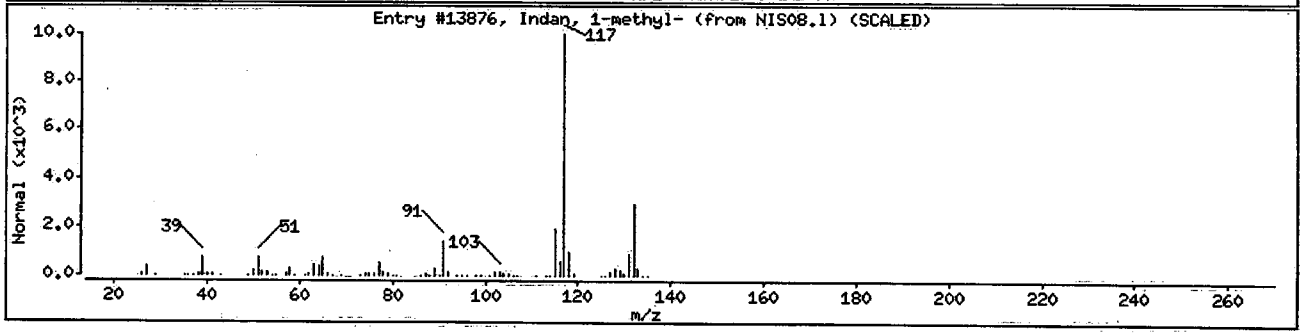
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Benzene, 1-ethenyl-3-ethyl-	7525-62-4	NIS08.l	13895	81	C10H12	132
Benzene, (2-methyl-1-propenyl)-	768-49-0	NIS08.l	13908	81	C10H12	132
Indan, 1-methyl-	767-58-8	NIS08.l	13876	76	C10H12	132









Roldan Hani 8/14/2014

Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-01D59.d

Date : 14-AUG-2014 00:23

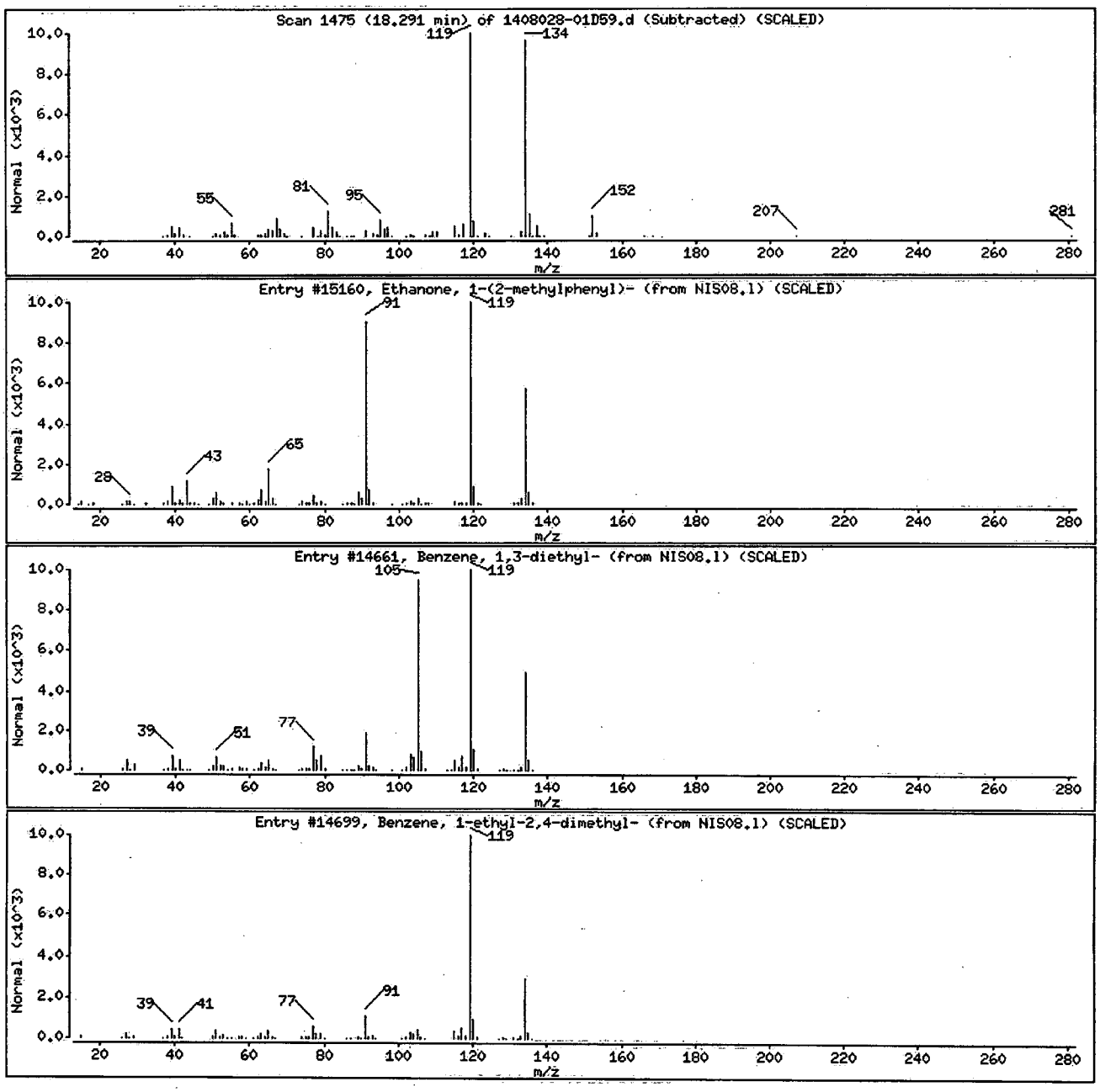
Client ID: P001-COMP02-LW-01 Instrument: 5972hp59.i

Sample Info: 1408028-01:JAO

Operator: JAO

Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Ethanone, 1-(2-methylphenyl)-	577-16-2	NIS08.l	15160	64	C9H10O	134
Benzene, 1,3-diethyl-	141-93-5	NIS08.l	14661	52	C10H14	134
Benzene, 1-ethyl-2,4-dimethyl-	874-41-9	NIS08.l	14699	50	C10H14	134



Roldan Hani 8/14/2014

Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-01D59.d

Date : 14-AUG-2014 00:23

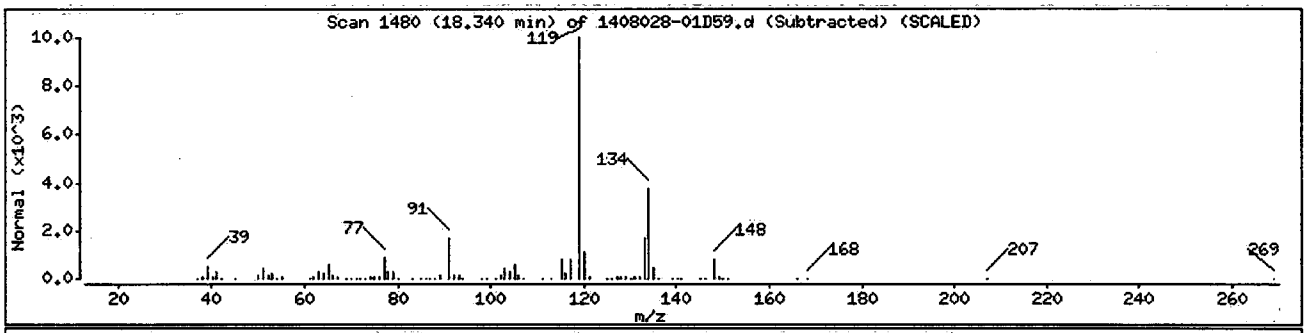
Client ID: P001-COMP02-LW-01 Instrument: 5972hp59.i

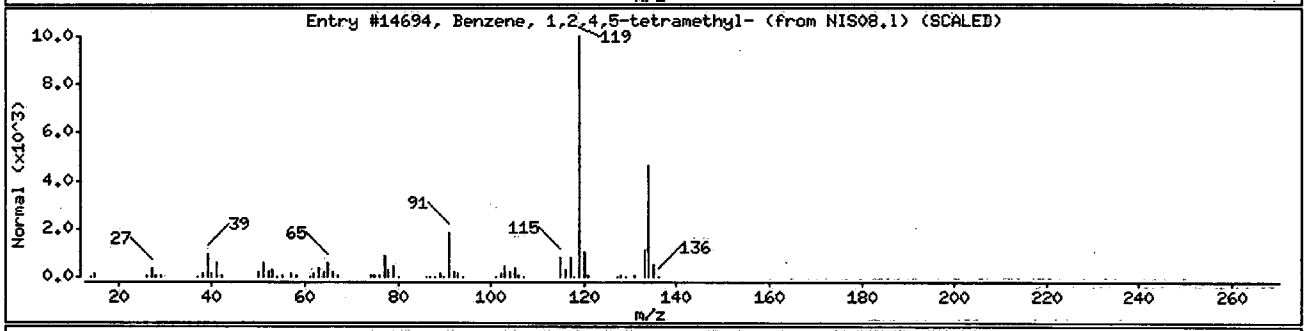
Sample Info: 1408028-01:JAO

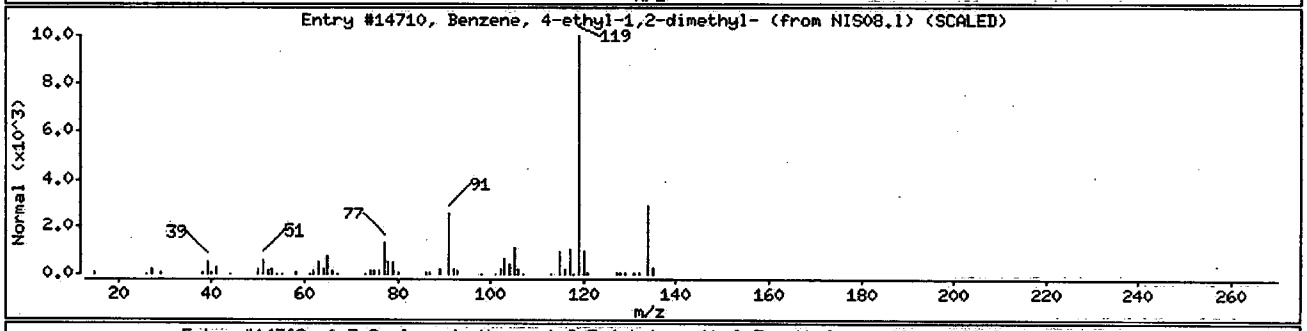
Operator: JAO

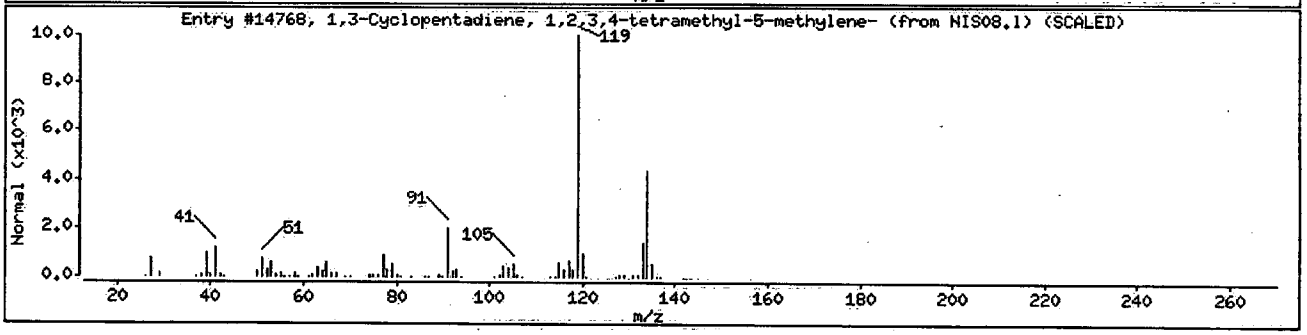
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1,2,4,5-tetramethyl-	95-93-2	NIS08.l	14694	96	C10H14	134
Benzene, 4-ethyl-1,2-dimethyl-	934-80-5	NIS08.l	14710	95	C10H14	134
1,3-Cyclopentadiene, 1,2,3,4-tetramethyl	76089-59-3	NIS08.l	14768	94	C10H14	134









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Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-01D59.d

Date : 14-AUG-2014 00:23

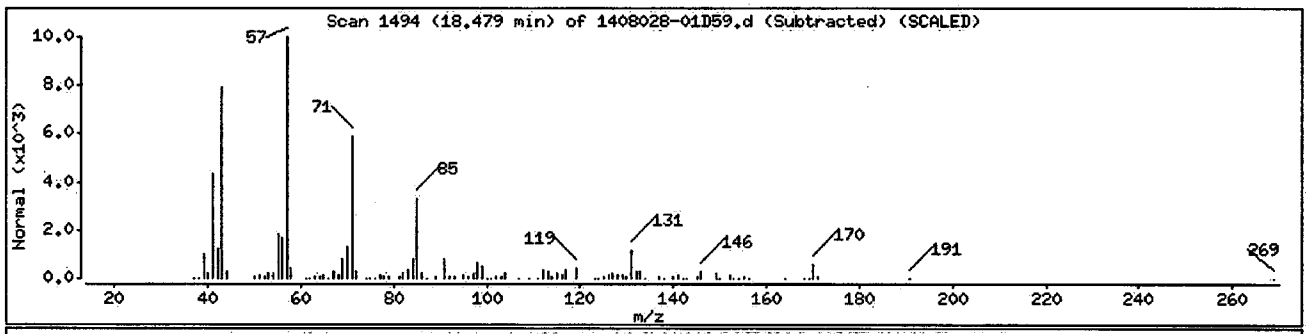
Client ID: P001-COMP02-LW-01 Instrument: 5972hp59.i

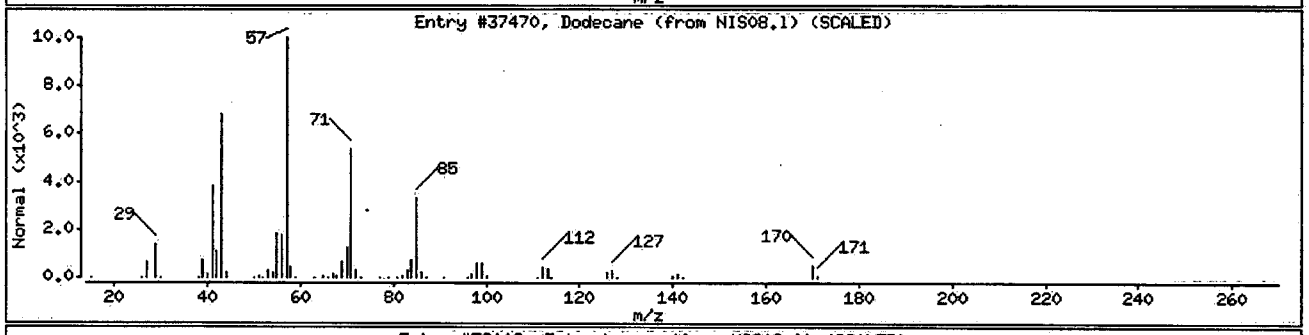
Sample Info: 1408028-01:JAO

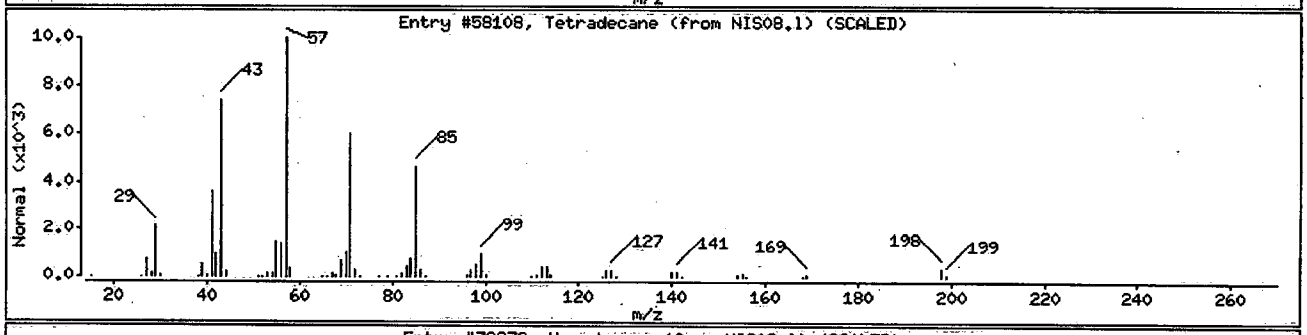
Operator: JAO

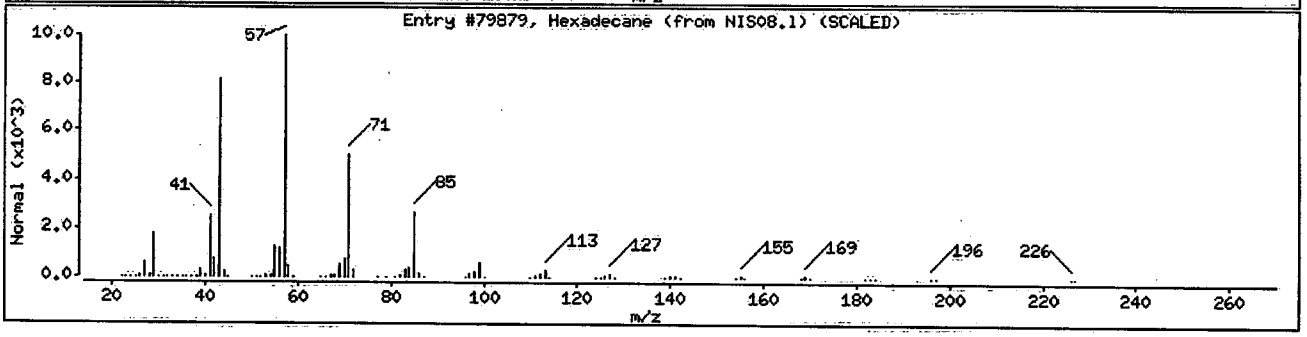
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unk. Alkane						
Dodecane	112-40-3	NIS08.l	37470	94	C12H26	170
Tetradecane	629-59-4	NIS08.l	58108	72	C14H30	198
Hexadecane	544-76-3	NIS08.l	79879	64	C16H34	226









Roldan Hani 8/14/2014

Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-01D59.d

Date : 14-AUG-2014 00:23

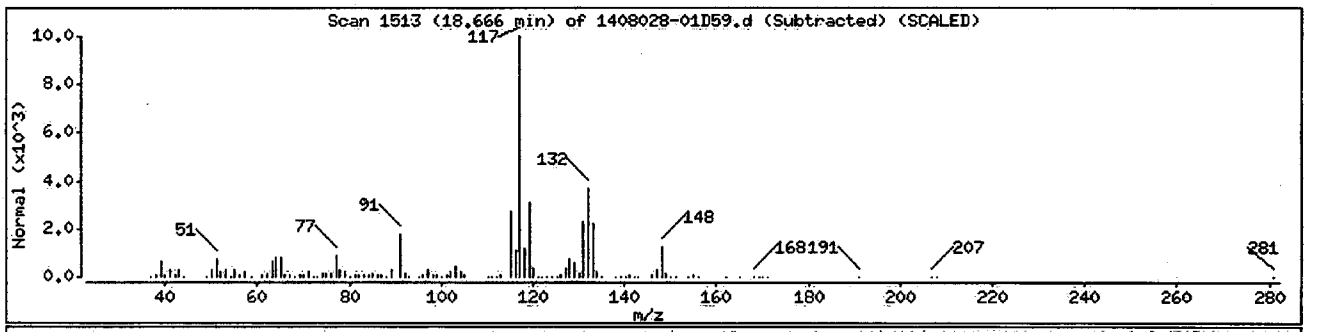
Client ID: P001-COMP02-LW-01 Instrument: 5972hp59.i

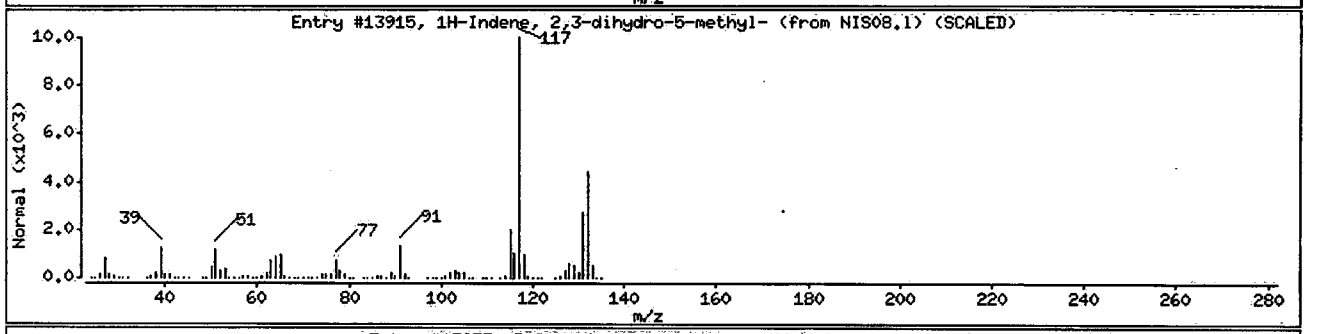
Sample Info: 1408028-01:JAO

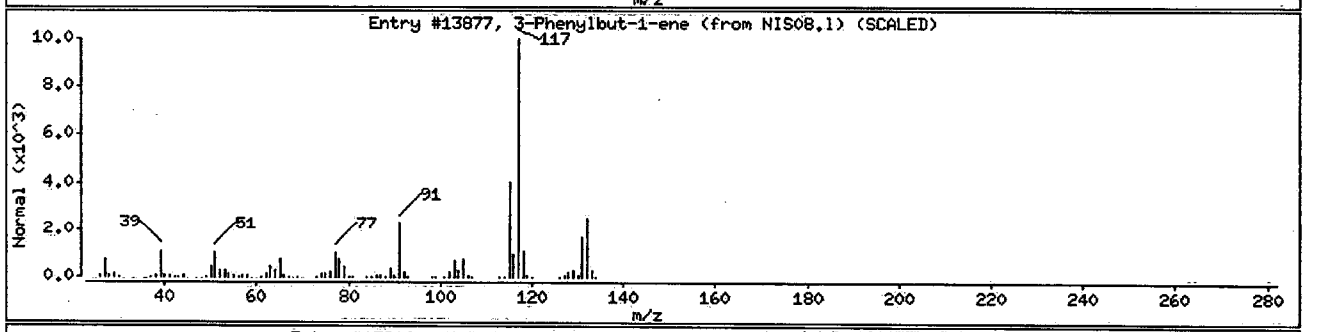
Operator: JAO

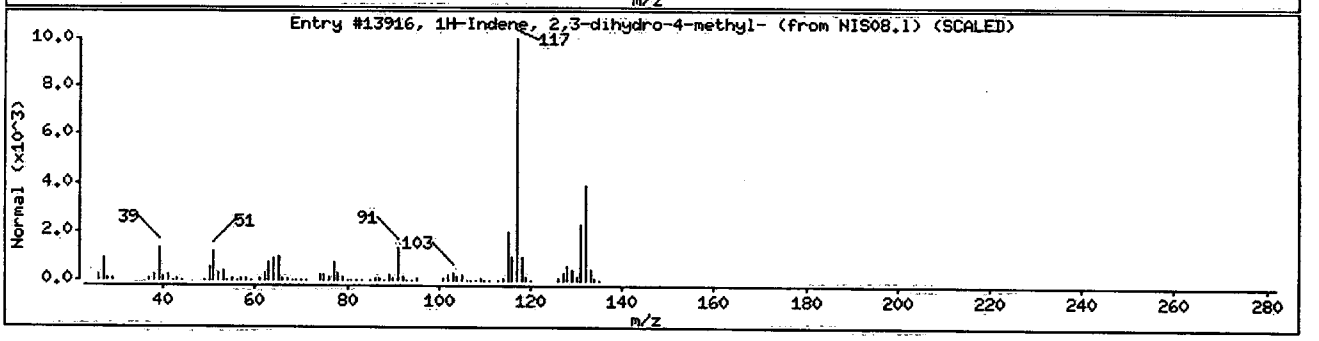
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1H-Indene, 2,3-dihydro-5-methyl-	874-35-1	NIS08.l	13915	90	C10H12	132
3-Phenylbut-1-ene	934-10-1	NIS08.l	13877	81	C10H12	132
1H-Indene, 2,3-dihydro-4-methyl-	824-22-6	NIS08.l	13916	76	C10H12	132









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Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-01D59.d

Date : 14-AUG-2014 00:23

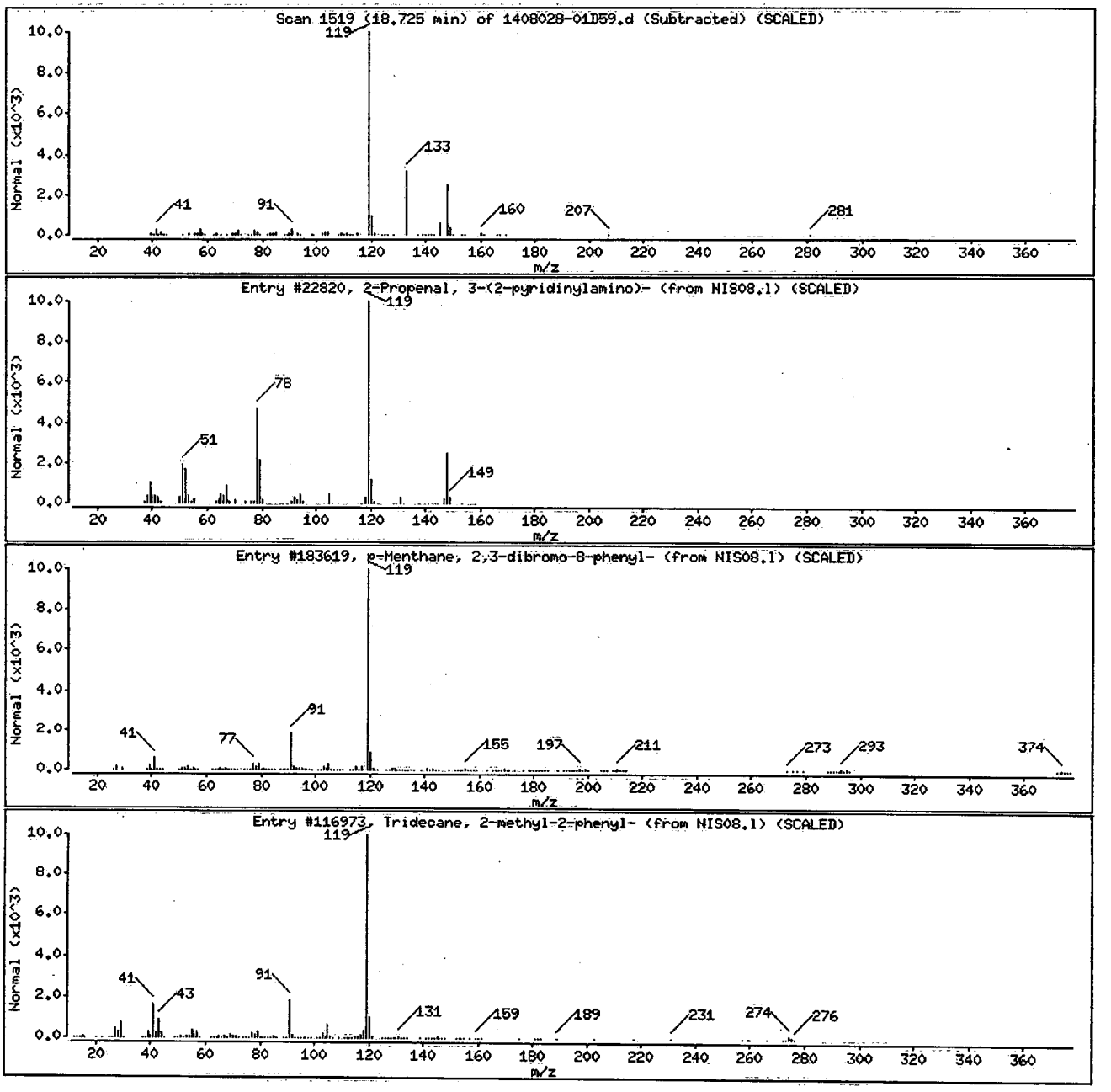
Client ID: P001-COMP02-LW-01 Instrument: 5972hp59.i

Sample Info: 1408028-01:JAO

Operator: JAO

Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2-Propenal, 3-(2-pyridinylamino)-	68970-82-1	NIS08.l	22820	45	C8H8N2O	148
p-Menthane, 2,3-dibromo-8-phenyl-	1000152-61-6	NIS08.l	183619	38	C16H22Br2	372
Tridecane, 2-methyl-2-phenyl-	27854-41-7	NIS08.l	116973	28	C20H34	274



Rolden Hani 8/14/2014

Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-01D59.d

Date : 14-AUG-2014 00:23

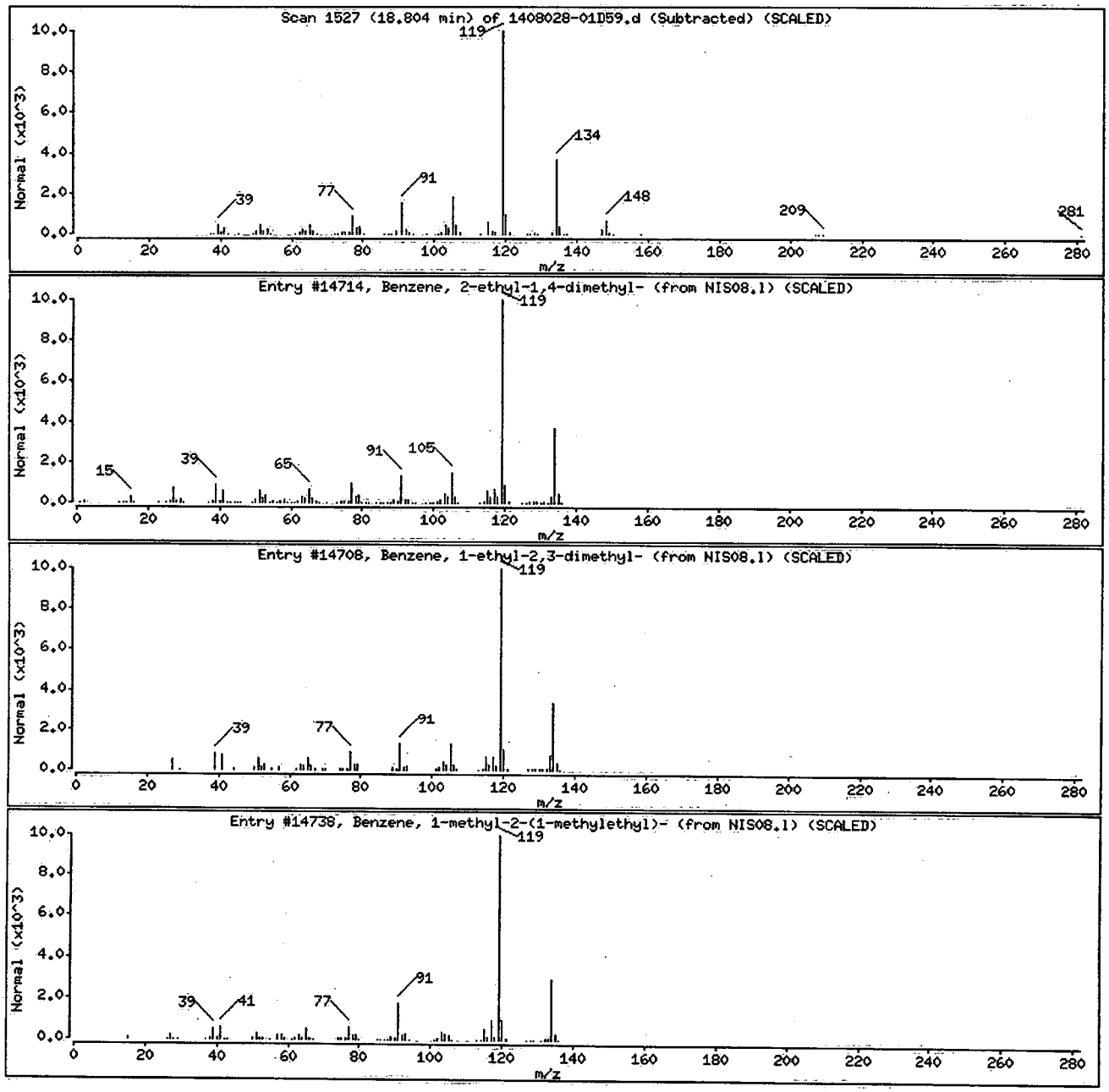
Client ID: P001-COMP02-LW-01 Instrument: 5972hp59.i

Sample Info: 1408028-01:JAO

Operator: JAO

Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 2-ethyl-1,4-dimethyl-	1758-88-9	NIS08.l	14714	91	C10H14	134
Benzene, 1-ethyl-2,3-dimethyl-	933-98-2	NIS08.l	14708	91	C10H14	134
Benzene, 1-methyl-2-(1-methylethyl)-	527-84-4	NIS08.l	14738	91	C10H14	134



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Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-01D59.d

Date : 14-AUG-2014 00:23

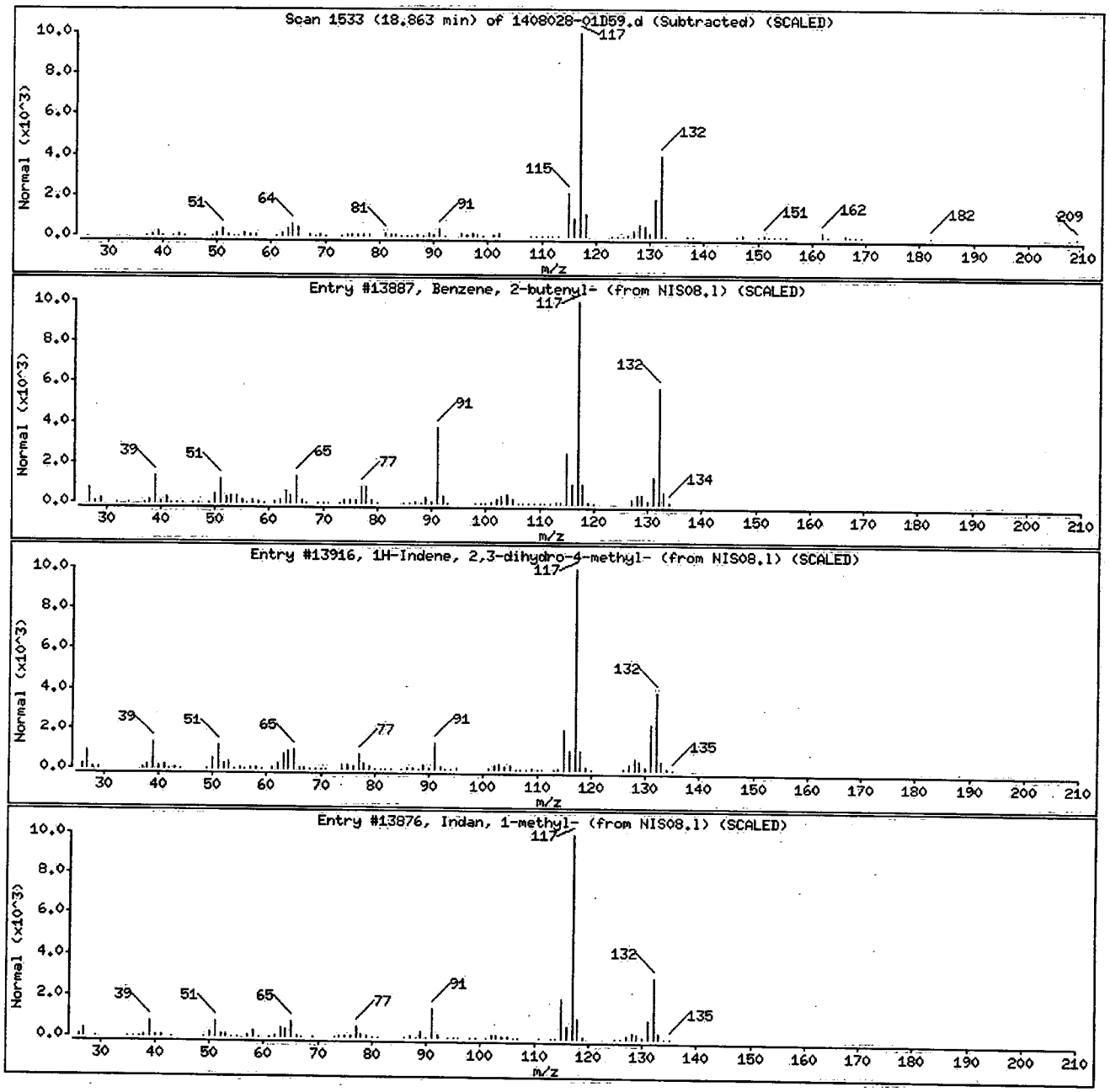
Client ID: P001-COMP02-LW-01 Instrument: 5972hp59.i

Sample Info: 1408028-01:JAO

Operator: JAO

Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 2-butenyl-	1560-06-1	NIS08.l	13887	91	C10H12	132
1H-Indene, 2,3-dihydro-4-methyl-	824-22-6	NIS08.l	13916	91	C10H12	132
Indan, 1-methyl-	767-58-8	NIS08.l	13876	86	C10H12	132



Roldan Hani 8/14/2014

Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-01D59.d

Date : 14-AUG-2014 00:23

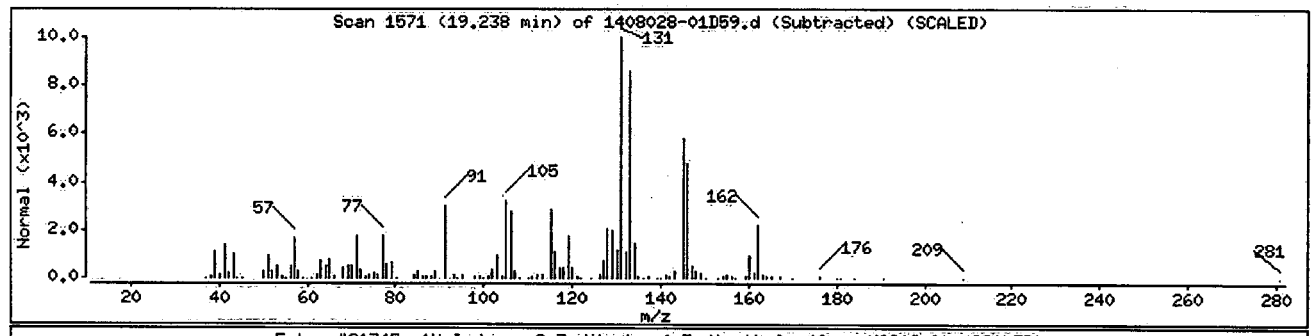
Client ID: P001-COMP02-LW-01 Instrument: 5972hp59.i

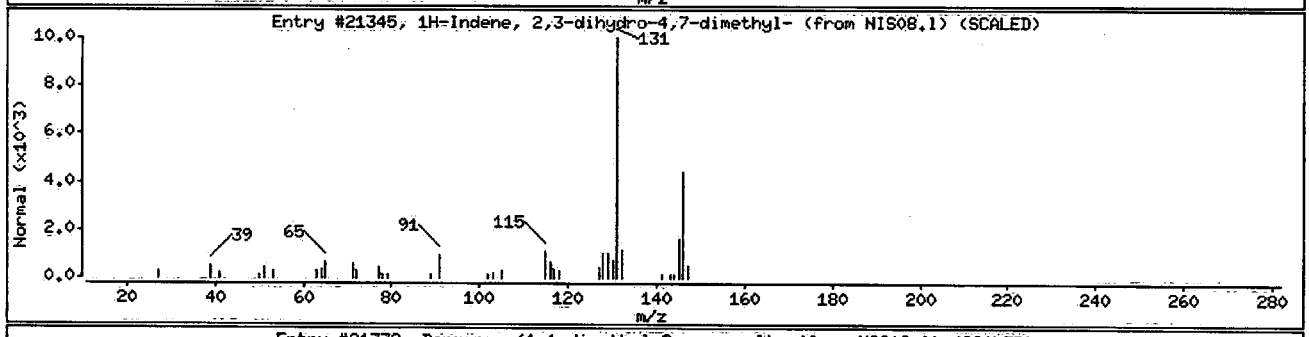
Sample Info: 1408028-01:JAO

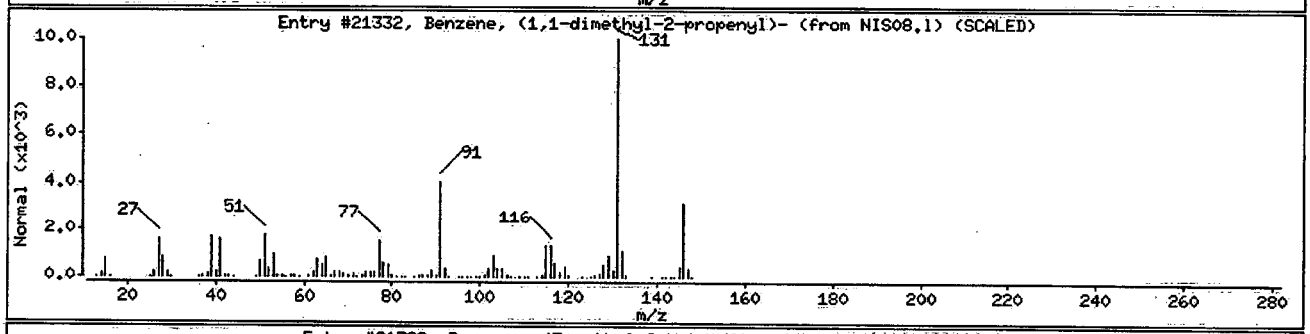
Operator: JAO

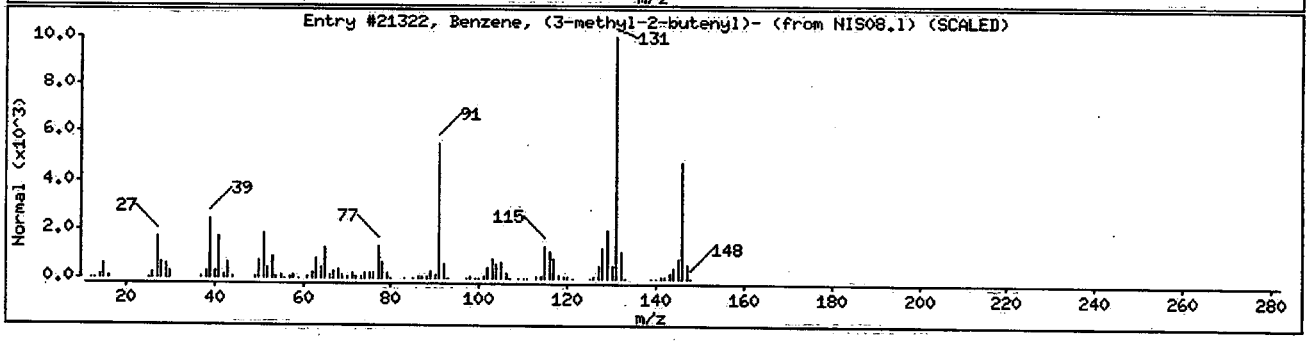
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1H-Indene, 2,3-dihydro-4,7-dimethyl-	6682-71-9	NIS08.l	21345	46	C11H14	146
Benzene, (1,1-dimethyl-2-propenyl)-	18321-36-3	NIS08.l	21332	42	C11H14	146
Benzene, (3-methyl-2-butenyl)-	4489-84-3	NIS08.l	21322	41	C11H14	146









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Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-01D59.d

Date : 14-AUG-2014 00:23

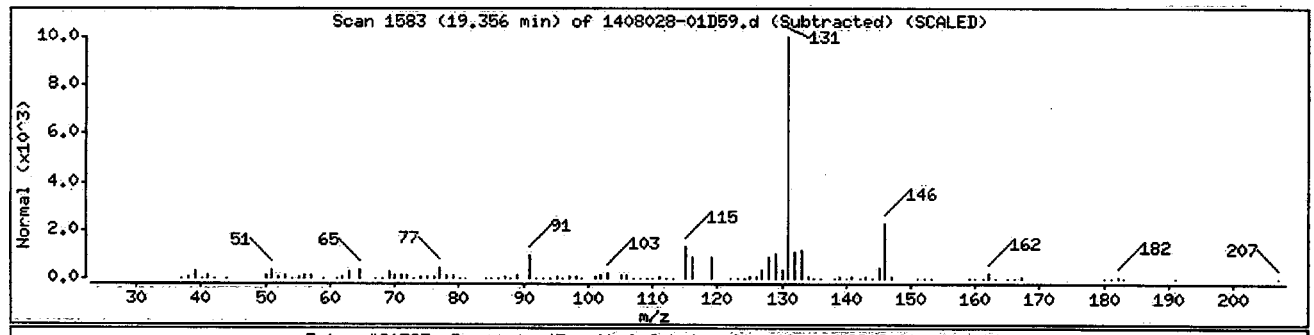
Client ID: P001-COMP02-LW-01 Instrument: 5972hp59.i

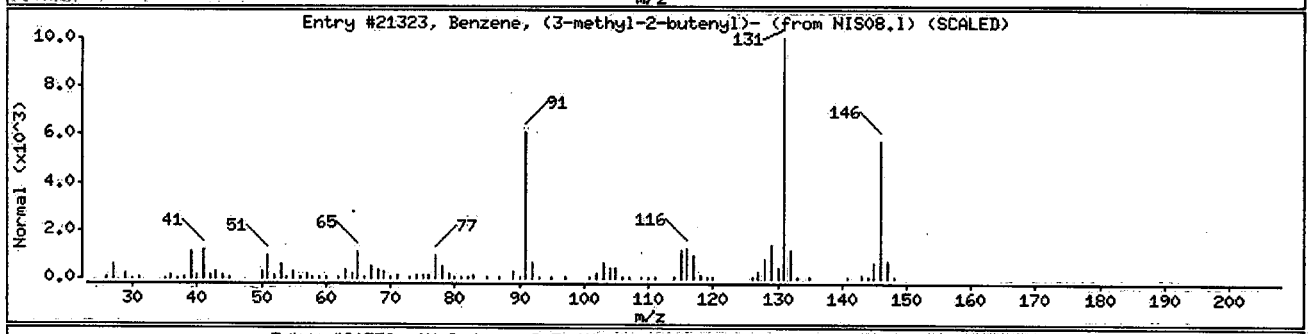
Sample Info: 1408028-01:JAO

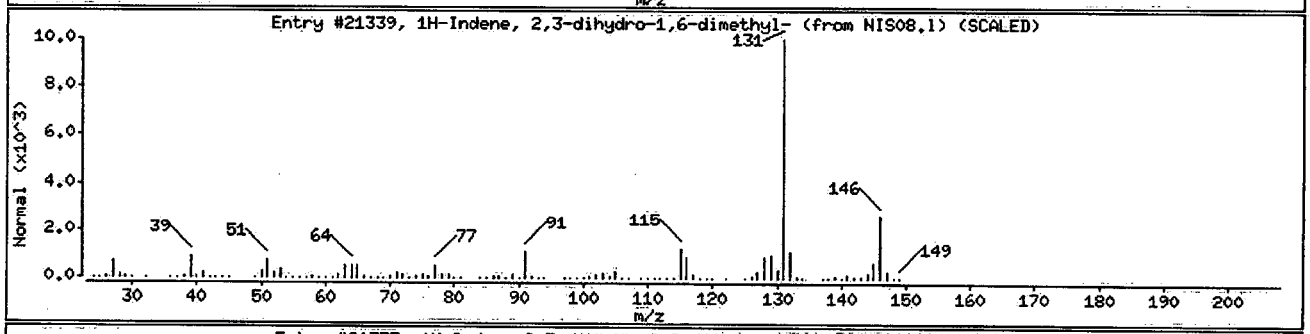
Operator: JAO

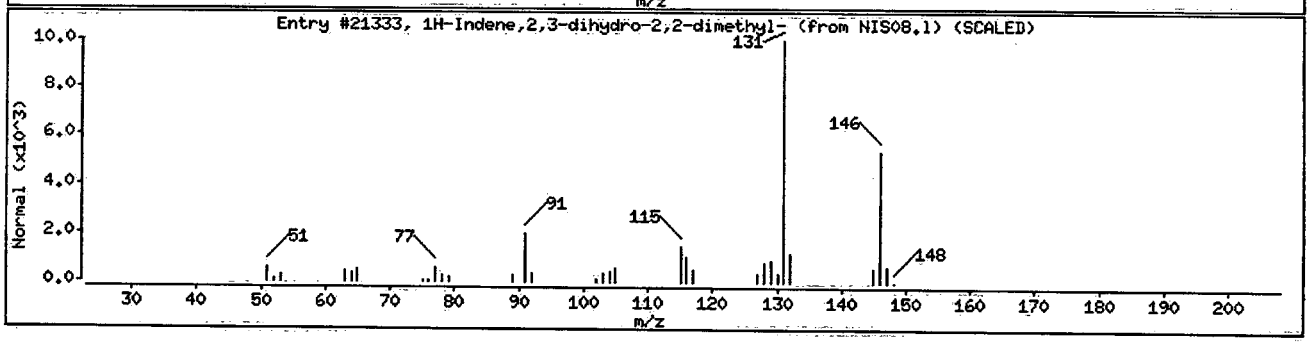
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, (3-methyl-2-butenyl)-	4489-84-3	NIS08.l	21323	90	C11H14	146
1H-Indene, 2,3-dihydro-1,6-dimethyl-	17059-48-2	NIS08.l	21339	90	C11H14	146
1H-Indene,2,3-dihydro-2,2-dimethyl-	20836-11-7	NIS08.l	21333	90	C11H14	146









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Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-01D59.d

Date : 14-AUG-2014 00:23

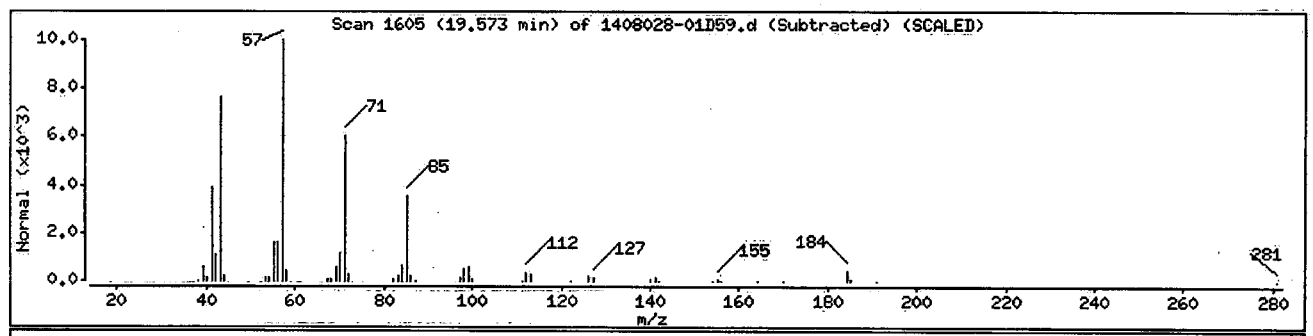
Client ID: P001-COMP02-LW-01 Instrument: 5972hp59.i

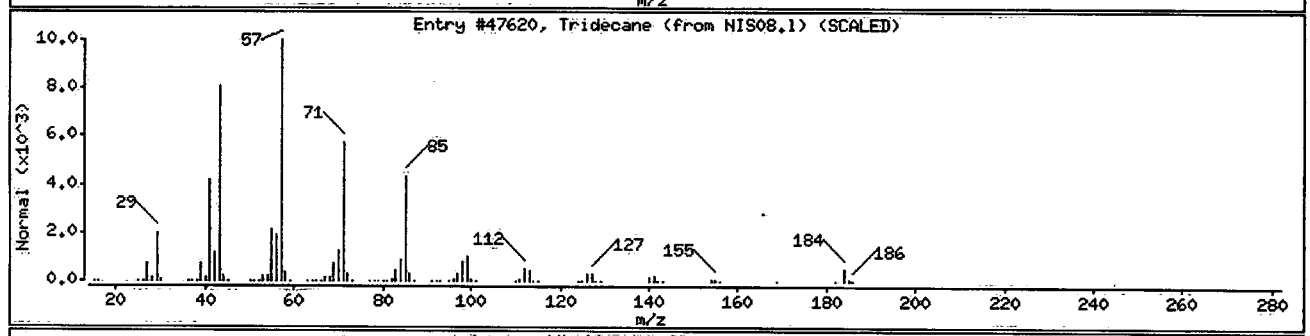
Sample Info: 1408028-01:JAO

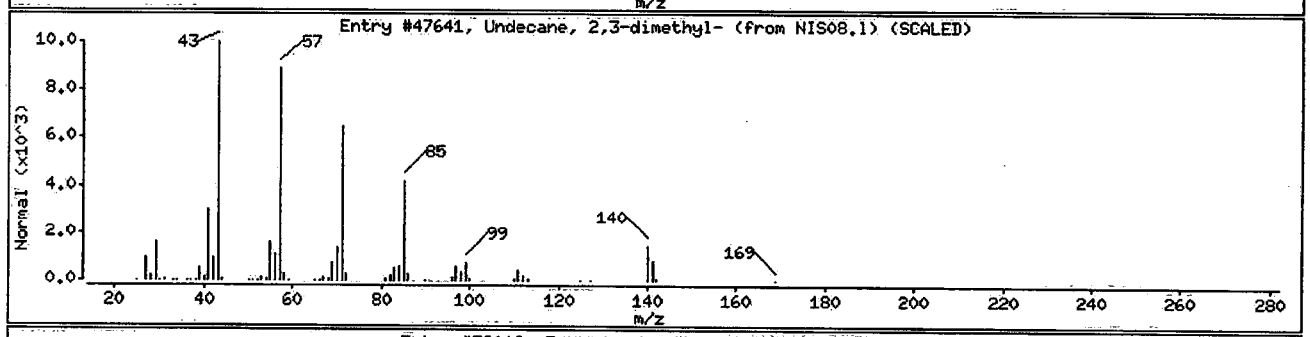
Operator: JAO

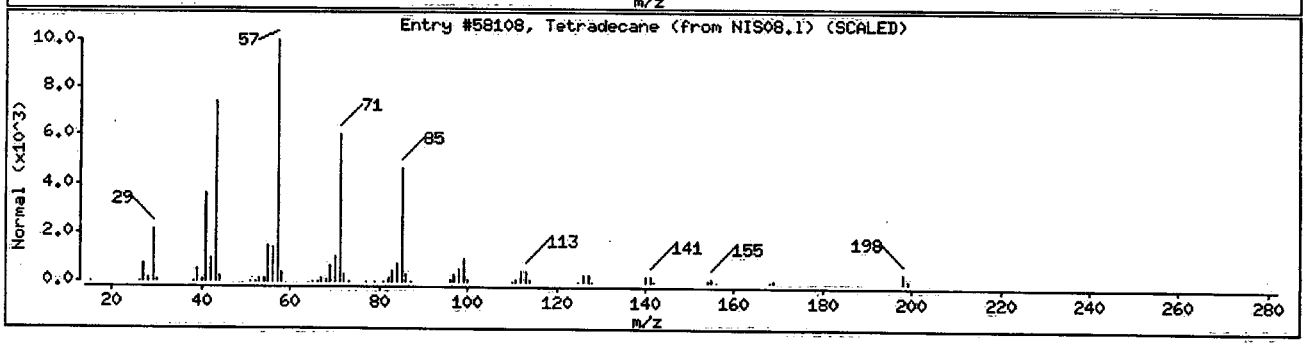
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unk. Alkane						
Tridecane	629-50-5	NIS08.l	47620	94	C13H28	184
Undecane, 2,3-dimethyl-	17312-77-5	NIS08.l	47641	90	C13H28	184
Tetradecane	629-59-4	NIS08.l	58108	90	C14H30	198









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Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-01D59.d

Date : 14-AUG-2014 00:23

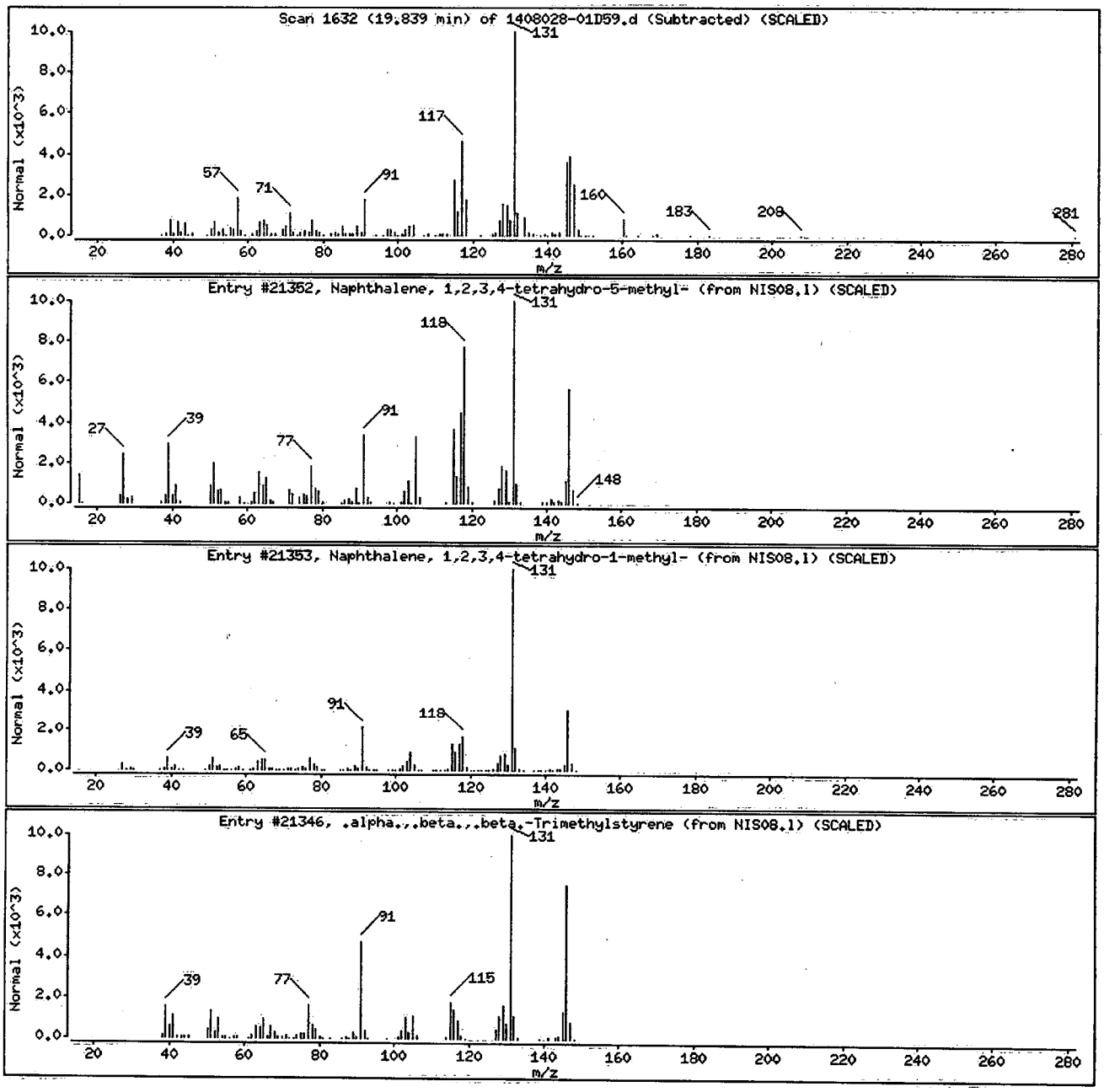
Client ID: P001-COMP02-LW-01 Instrument: 5972hp59.i

Sample Info: 1408028-01:JAO

Operator: JAO

Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Naphthalene, 1,2,3,4-tetrahydro-5-methyl	2809-64-5	NIS08.l	21352	81	C11H14	146
Naphthalene, 1,2,3,4-tetrahydro-1-methyl	1559-81-5	NIS08.l	21353	76	C11H14	146
.alpha.,.beta.,.beta.-Trimethylstyrene	769-57-3	NIS08.l	21346	70	C11H14	146



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Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-01D59.d

Date : 14-AUG-2014 00:23

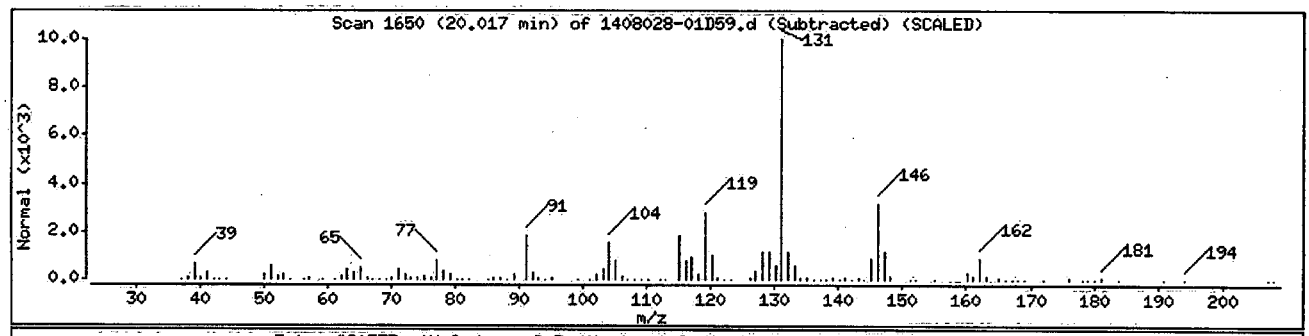
Client ID: P001-COMP02-LW-01 Instrument: 5972hp59.i

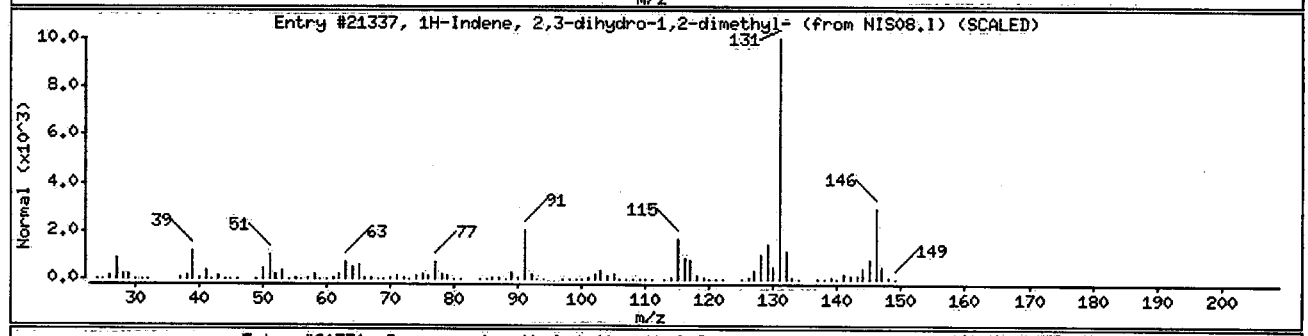
Sample Info: 1408028-01:JAO

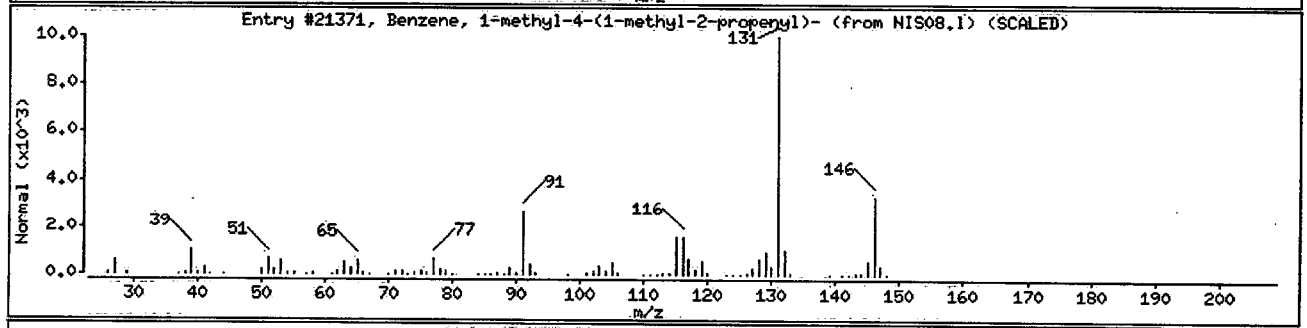
Operator: JAO

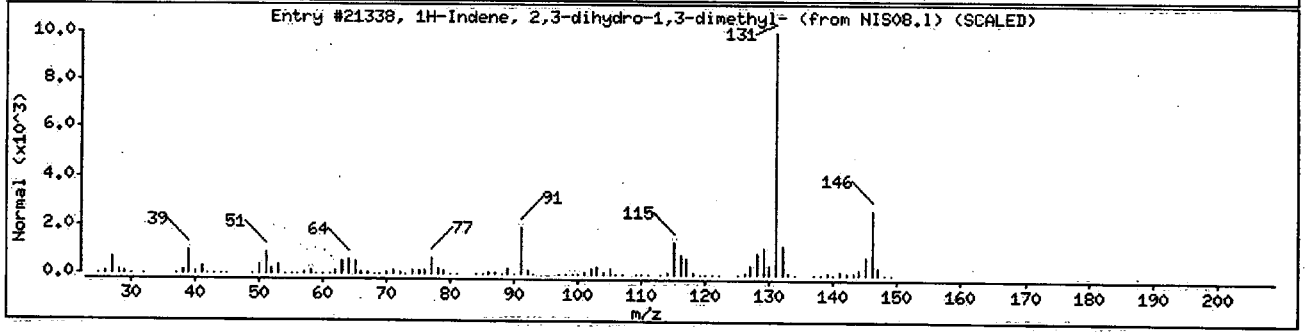
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1H-Indene, 2,3-dihydro-1,2-dimethyl-	17057-82-8	NIS08.l	21337	89	C11H14	146
Benzene, 1-methyl-4-(1-methyl-2-propenyl	97664-18-1	NIS08.l	21371	76	C11H14	146
1H-Indene, 2,3-dihydro-1,3-dimethyl-	4175-53-5	NIS08.l	21338	76	C11H14	146









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Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-01D59.d

Date : 14-AUG-2014 00:23

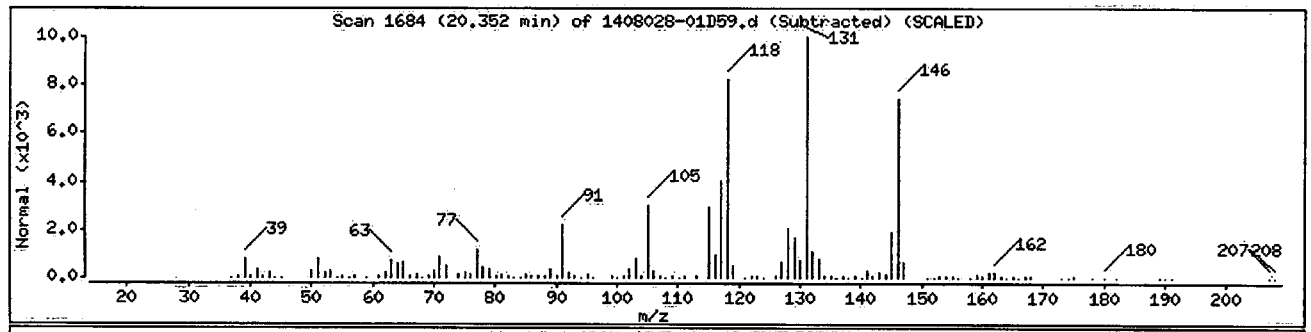
Client ID: P001-COMP02-LW-01 Instrument: 5972hp59.i

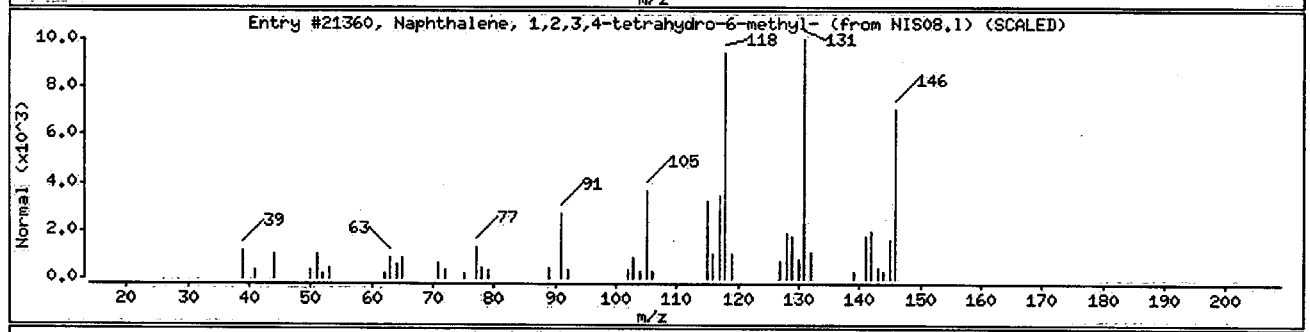
Sample Info: 1408028-01:JAO

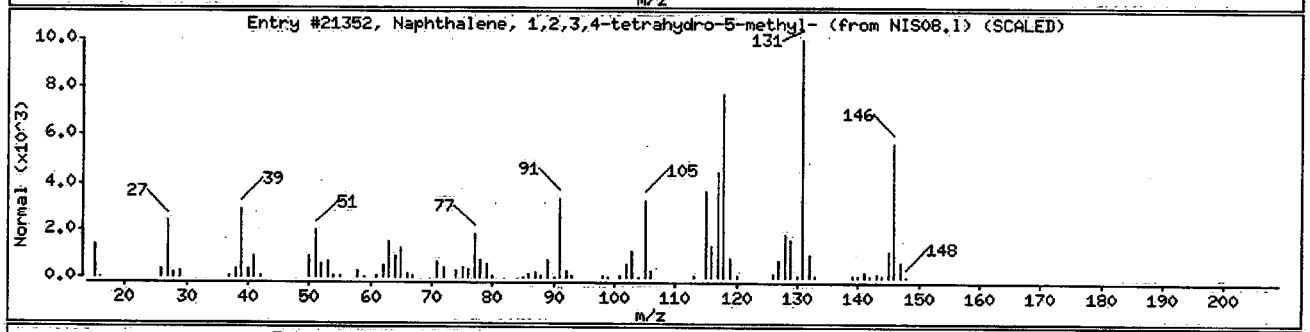
Operator: JAO

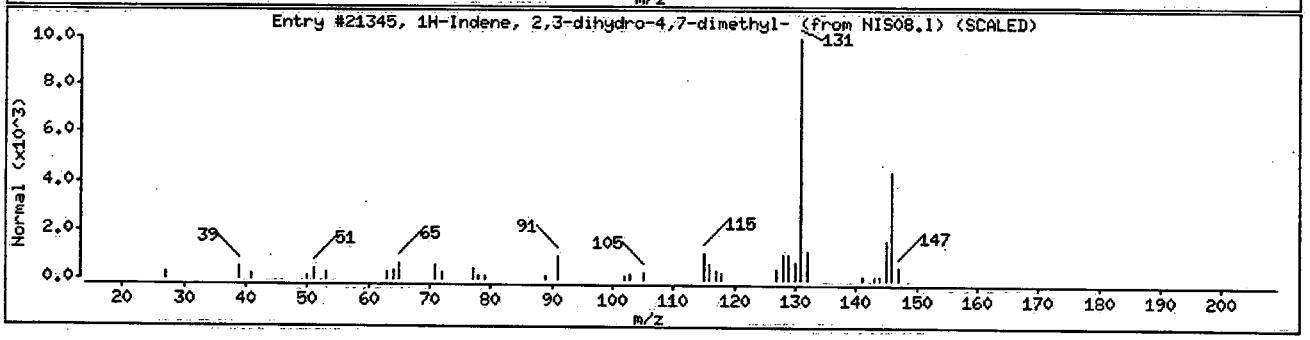
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Naphthalene, 1,2,3,4-tetrahydro-6-methyl	1680-51-9	NIS08.l	21360	95	C11H14	146
Naphthalene, 1,2,3,4-tetrahydro-5-methyl	2809-64-5	NIS08.l	21352	91	C11H14	146
1H-Indene, 2,3-dihydro-4,7-dimethyl-	6682-71-9	NIS08.l	21345	78	C11H14	146









8/14/2014

ANALYSIS DATA SHEET
SW 8260B

P001-DR0502-LW-01

Client: WESTON SOLUTIONS | SDG 1408028 | Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Matrix: Soil | Preparation: EPA 5030B/5035A | File ID: 1408028-02D59.d | Sampled: 08/06/14 00:00

Initial/Final: 5g / 5mL | Lab ID: 1408028-02 | Received: 08/12/14 08:58

Dilution: 50 | pH: | Prepared: 08/13/14 15:37

% Moisture: NA | Analyzed: 08/13/14 23:42

Batch: 4081312 | Sequence: 4H13004 | Calibration: 4081203 | Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
75-71-8	Dichlorodifluoromethane		22	250	U
74-87-3	Chloromethane		16	250	U
75-01-4	Vinyl chloride		21	250	U
74-83-9	Bromomethane		29	250	U
75-00-3	Chloroethane		36	250	U
75-69-4	Trichlorofluoromethane		15	250	U
75-35-4	1,1-Dichloroethene		55	250	U
67-64-1	Acetone		250	630	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		26	250	U
75-15-0	Carbon disulfide		7.0	250	U
79-20-9	Methyl acetate		70	250	U
75-09-2	Methylene chloride	69	25	250	JB
156-60-5	trans-1,2-Dichloroethene		50	250	U
1634-04-4	Methyl tert-butyl ether		20	250	U
75-34-3	1,1-Dichloroethane		24	250	U
156-59-2	cis-1,2-Dichloroethene		21	250	U
78-93-3	2-Butanone		65	630	U
67-66-3	Chloroform		16	250	U
71-55-6	1,1,1-Trichloroethane		25	250	U
110-82-7	Cyclohexane		16	250	U
56-23-5	Carbon tetrachloride		23	250	U
107-06-2	1,2-Dichloroethane		14	250	U
71-43-2	Benzene		16	250	U
79-01-6	Trichloroethene		16	250	U
108-87-2	Methylcyclohexane		14	250	U
78-87-5	1,2-Dichloropropane		32	250	U
75-27-4	Bromodichloromethane		19	250	U
10061-01-5	cis-1,3-Dichloropropene		20	250	U
108-10-1	4-Methyl-2-pentanone		65	630	U
108-88-3	Toluene	51	17	250	J
10061-02-6	trans-1,3-Dichloropropene		21	250	U
79-00-5	1,1,2-Trichloroethane		36	250	U
127-18-4	Tetrachloroethene		80	250	U
591-78-6	2-Hexanone		50	630	U
124-48-1	Dibromochloromethane		28	250	U

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ANALYSIS DATA SHEET

SW 8260B

P001-DR0502-LW-01

Client: WESTON SOLUTIONS | SDG 1408028 | Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Matrix: Soil | Preparation: EPA 5030B/5035A | File ID: 1408028-02D59.d | Sampled: 08/06/14 00:00

Initial/Final: 5g / 5mL | Lab ID: 1408028-02 | Received: 08/12/14 08:58

Dilution: 50 | pH: | Prepared: 08/13/14 15:37

% Moisture: NA | Analyzed: 08/13/14 23:42

Batch: 4081312 | Sequence: 4H13004 | Calibration: 4081203 | Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
106-93-4	1,2-Dibromoethane		11	250	U
108-90-7	Chlorobenzene		13	250	U
100-41-4	Ethylbenzene	160	29	250	J
179601-23-1	m,p-Xylene	1400	7.0	500	
95-47-6	o-Xylene	1900	19	250	
100-42-5	Styrene		4.0	250	U
75-25-2	Bromoform		55	250	U
98-82-8	Isopropylbenzene	2900	11	250	
79-34-5	1,1,2,2-Tetrachloroethane		19	250	U
541-73-1	1,3-Dichlorobenzene		14	250	U
106-46-7	1,4-Dichlorobenzene		11	250	U
95-50-1	1,2-Dichlorobenzene		18	250	U
96-12-8	1,2-Dibromo-3-chloropropane		33	250	U
120-82-1	1,2,4-Trichlorobenzene		18	250	U
1330-20-7	Xylenes (total)	3200	7.0	250	

SURROGATE RECOVERY RESULTS	ADDED (ug/kg wet)	CONC (ug/kg wet)	% REC	QC LIMITS	Q
Dibromofluoromethane	2500	2427	97	71 - 141	D
1,2-Dichloroethane-d4	2500	2137	85	70 - 139	D
Toluene-d8	2500	2911	116	72 - 123	D
Bromofluorobenzene	2500	66.07	3	65 - 131	*

CAS NO.	TICS	CONC. (ug/kg wet)	Response	R.T.	% Match	Q
000644-08-6	1,1'-Biphenyl, 4-methyl-	1500	877267	15.302	95	JN
000526-73-8	Benzene, 1,2,3-trimethyl-	49000	28910610	17.047	95	JN
000933-98-2	Benzene, 1-ethyl-2,3-dimethyl-	52000	30451640	17.915	97	JN
000611-14-3	Benzene, 1-ethyl-2-methyl-	64000	37490280	16.692	94	JN
000934-74-7	Benzene, 1-ethyl-3,5-dimethyl-	56000	32941170	18.802	87	JN
000527-84-4	Benzene, 1-methyl-2-(1-methylethyl)-	78000	45657860	17.215	89	JN
1595-16-0	Benzene, 1-methyl-4-(1-methylpropyl)-	96000	56458930	18.033	87	JN
001074-55-1	Benzene, 1-methyl-4-propyl-	85000	49907800	17.767	91	JN
000934-80-5	Benzene, 4-ethyl-1,2-dimethyl-	77000	45091030	18.349	96	JN
000119-64-2	Naphthalene, 1,2,3,4-tetrahydro-	150000	89262740	19.088	90	JN
2809-64-5	Naphthalene, 1,2,3,4-tetrahydro-5-methyl	31000	18339360	20.883	95	JN
1680-51-9	Naphthalene, 1,2,3,4-tetrahydro-6-methyl	110000	61765300	20.36	95	JN
000571-58-4	Naphthalene, 1,4-dimethyl-	370	214011	15.164	96	JN
1000185-59-0	Pentacyclo[5.2.1.0(1,5).0(5,9).0(6,8)]de	45000	26391300	18.684	86	JN
NA	Unk. Alkane	360	212120	15.874	0	J

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ANALYSIS DATA SHEET
SW 8260B

P001-DR0502-LW-01

Client: WESTON SOLUTIONS SDG 1408028 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Matrix: Soil Preparation: EPA 5030B/5035A File ID: 1408028-02D59.d Sampled: 08/06/14 00:00

Initial/Final: 5g / 5mL Lab ID: 1408028-02 Received: 08/12/14 08:58

Dilution: 50 pH: Prepared: 08/13/14 15:37

% Moisture: NA Analyzed: 08/13/14 23:42

Batch: 4081312 Sequence: 4H13004 Calibration: 4081203 Instrument: 5972hp59

CAS NO.	TICS	CONC. (ug/kg wet)	Response	R.T.	% Match	Q
NA	Unk. Alkane(1)	1600	928804	15.972	0	J
NA	Unk. Alkane(10)	90000	52736860	18.477	0	J
NA	Unk. Alkane(2)	6400	3737076	16.041	0	J
NA	Unk. Alkane(3)	5500	3241315	16.16	0	J
NA	Unk. Alkane(4)	1900	1104009	16.219	0	J
NA	Unk. Alkane(5)	22000	12712840	16.298	0	J
NA	Unk. Alkane(6)	8000	4711406	16.386	0	J
NA	Unk. Alkane(7)	58000	33925940	16.633	0	J
NA	Unk. Alkane(8)	30000	17762760	16.85	0	J
NA	Unk. Alkane(9)	200000	115200000	17.53	0	J
NA	Unknown 17.284	25000	14857140	17.284	0	J
NA	Unknown 17.846	73000	42940190	17.846	0	J
NA	Unknown 18.112	60000	35167140	18.112	0	J
NA	Unknown 18.664	83000	48767400	18.664	0	J
NA	Unknown 19.236	26000	15116240	19.236	0	J
NA	Unknown 19.355	37000	21913650	19.355	0	J

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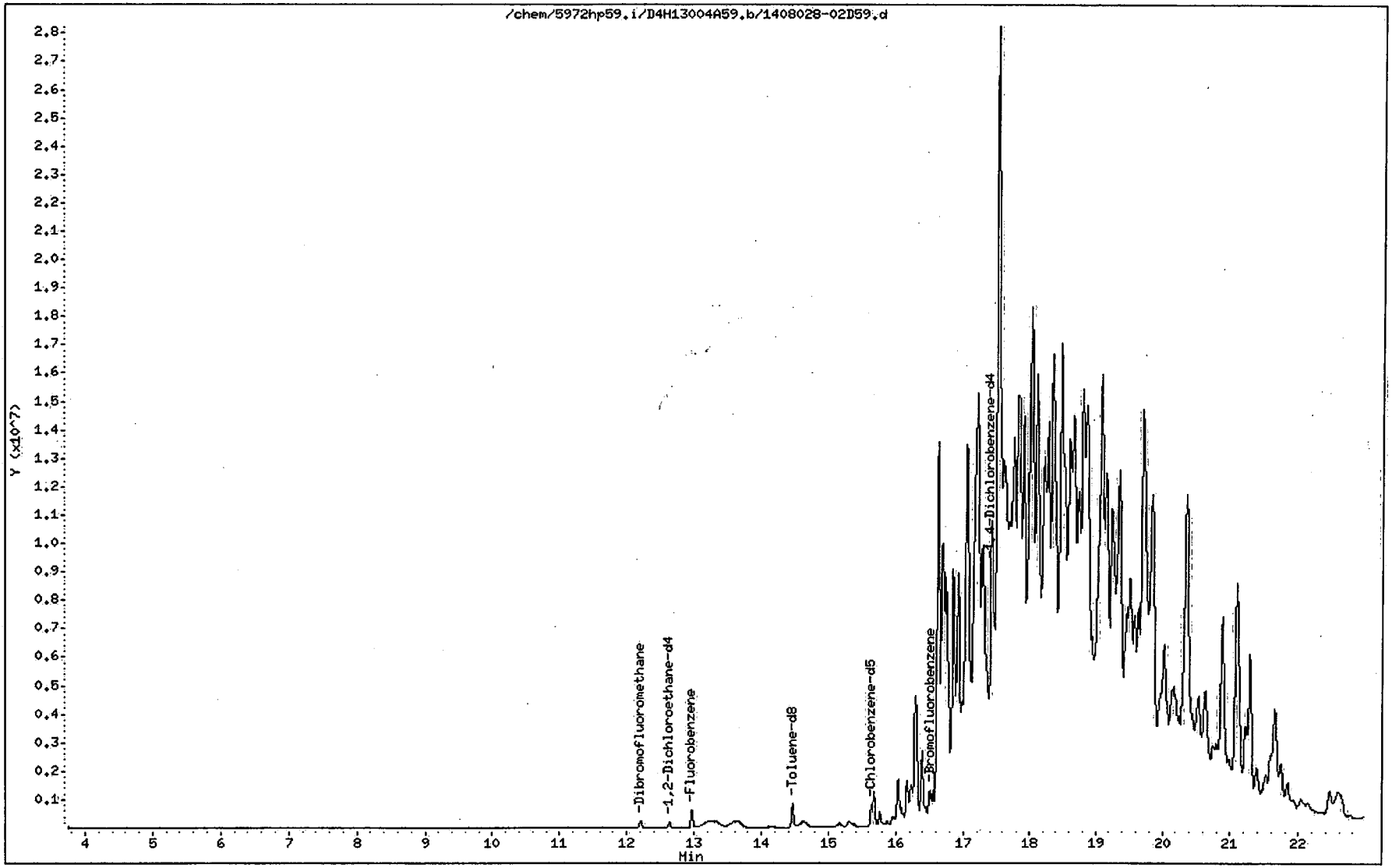
Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-02D59.d
Date : 13-AUG-2014 23:42
Client ID: P001-DR0502-LW-01
Sample Info: 1408028-02:JAO

Instrument: 5972hp59.i

Operator: JAO

Column phase: SPB-624

Column diameter: 0.32



8/18/2014

Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-02D59.d
Report Date: 18-Aug-2014 15:26

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp59.i/D4H13004A59.b/1408028-02D59.d
Lab Smp Id: 1408028-02 Client Smp ID: P001-DR0502-LW-01
Inj Date : 13-AUG-2014 23:42
Operator : JAO Inst ID: 5972hp59.i
Smp Info : 1408028-02:JAO
Misc Info : P001-DR0502-LW-01
Comment :
Method : /chem/5972hp59.i/D4H13004A59.b/8260B_5ppbv5.m
Meth Date : 18-Aug-2014 15:25 ron Quant Type: ISTD
Cal Date : 11-AUG-2014 18:02 Cal File: 4H11002-CAL3R59.d
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TCL4.sub
Target Version: 3.50
Processing Host: dante

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

Name	Value	Description
DF	1.00000	Dilution Factor
Ws	5.00000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Vt	5000.00000	
Va	100.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
* 1 Fluorobenzene	96	12.964	12.972	(1.000)	708068	250.000	
* 2 Chlorobenzene-d5	117	15.637	15.634	(1.000)	494095	250.000	
* 3 1,4-Dichlorobenzene-d4	152	17.402	17.419	(1.000)	132717	250.000	(M)
$ 4 Dibromofluoromethane	113	12.205	12.212	(0.941)	195386	242.679	2426.79
$ 5 1,2-Dichloroethane-d4	65	12.629	12.636	(0.974)	145905	213.735	2137.35
$ 6 Toluene-d8	98	14.463	14.471	(0.925)	587272	291.065	2910.65
$ 7 Bromofluorobenzene	95	16.495	16.502	(0.948)	139998	330.374	3303.74 (RM)
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					

Robin Ha 8/18/2014

Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-02D59.d
Report Date: 18-Aug-2014 15:26

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
17 1,1-Dichloroethene	96	Compound Not Detected.					
18 Acetone	43	Compound Not Detected.					
16 1,1,2-trichloro-1,2,2-trifluo	101	Compound Not Detected.					
20 Carbon disulfide	76	Compound Not Detected.					
23 Methyl acetate	43	Compound Not Detected.					
24 Methylene Chloride	84	9.503	9.510	(0.733)	4885	6.85042	68.5042(a)
28 trans-1,2-Dichloroethene	96	Compound Not Detected.					
26 Methyl-tert-butyl ether	73	Compound Not Detected.					
32 1,1-Dichloroethane	63	Compound Not Detected.					
37 cis-1,2-Dichloroethene	96	Compound Not Detected.					
35 2-butanone	43	Compound Not Detected.					
42 Chloroform	83	Compound Not Detected.					
43 1,1,1-Trichloroethane	97	Compound Not Detected.					
44 Cyclohexane	56	Compound Not Detected.					
48 Carbon Tetrachloride	117	Compound Not Detected.					
50 1,2-Dichloroethane	62	Compound Not Detected.					
49 Benzene	78	Compound Not Detected.					
51 Trichloroethene	130	Compound Not Detected.					
52 Methylcyclohexane	83	Compound Not Detected.					
54 1,2-Dichloropropane	63	Compound Not Detected.					
57 Bromodichloromethane	83	Compound Not Detected.					
58 cis-1,3-Dichloropropene	75	Compound Not Detected.					
59 4-Methyl-2-pentanone	43	Compound Not Detected.					
60 Toluene	92	14.523	14.530	(0.929)	6396	5.07626	50.7626(a)
62 trans-1,3-Dichloropropene	75	Compound Not Detected.					
63 1,1,2-Trichloroethane	97	Compound Not Detected.					
67 Tetrachloroethene	164	Compound Not Detected.					
64 2-hexanone	43	Compound Not Detected.					
68 Dibromochloromethane	129	Compound Not Detected.					
69 1,2-Dibromoethane	107	Compound Not Detected.					
71 Chlorobenzene	112	Compound Not Detected.					
72 Ethylbenzene	106	15.686	15.693	(1.003)	12021	16.4160	164.160(a)
75 m,p-Xylene (part of total)	106	15.765	15.772	(1.008)	126639	136.331	1363.31
77 o-Xylene (part of total)	106	16.081	16.088	(1.028)	168263	187.290	1872.90
78 Styrene	104	Compound Not Detected.					
79 Bromoform	173	Compound Not Detected.					
80 Isopropyl Benzene	105	16.327	16.334	(1.044)	611219	285.003	2850.03
81 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
94 1,3-Dichlorobenzene	146	Compound Not Detected.					
95 1,4-Dichlorobenzene	146	Compound Not Detected.					
97 1,2-Dichlorobenzene	146	Compound Not Detected.					
98 1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.					
99 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
M 104 Xylene (total)	106				294902	323.621	3236.21

8/18/2014

Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-02D59.d
Report Date: 18-Aug-2014 15:26

QC Flag Legend

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

8/18/2014

Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-02D59.d
Report Date: 18-Aug-2014 15:26

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp59.i/D4H13004A59.b/1408028-02D59.d
Lab Smp Id: 1408028-02 Client Smp ID: P001-DR0502-LW-01
Inj Date : 13-AUG-2014 23:42
Operator : JAO Inst ID: 5972hp59.i
Smp Info : 1408028-02:JAO
Misc Info : P001-DR0502-LW-01
Comment :
Method : /chem/5972hp59.i/D4H13004A59.b/8260B_5ppbv5.m
Meth Date : 18-Aug-2014 15:25 ron Quant Type: ISTD
Cal Date : 11-AUG-2014 18:02 Cal File: 4H11002-CAL3R59.d
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TCL4.sub
Target Version: 3.50
Processing Host: dante

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

Name	Value	Description
DF	1.00000	Dilution Factor
Ws	5.00000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Vt	5000.00000	
Va	100.00000	

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 2 Chlorobenzene-d5	15.637	1465673	250.000

RT	AREA	CONCENTRATIONS ON-COL(ng)	FINAL(ug/Kg)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Naphthalene, 1,4-dimethyl-				CAS #: 571-58-4			
15.164	214011	36.5038133	365.038	96	NIS08.1	27988	2
1,1'-Biphenyl, 4-methyl-				CAS #: 644-08-6			
15.302	877267	149.635434	1496.35	95	NIS08.1	36106	2

8/18/2014

Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-02D59.d
Report Date: 18-Aug-2014 15:26

RT	AREA	CONCENTRATIONS ON-COL(ng)	FINAL(ug/Kg)	QUANT QUAL	LIBRARY	LIB ENTRY	CPND #
Unk. Alkane				CAS #:			
15.874	212120	36.1813893	361.814	0		0	2
Unk. Alkane				CAS #:			
15.972	928804	158.426133	1584.26	0		0	2
Unk. Alkane				CAS #:			
16.041	3737076	637.433404	6374.33	0		0	2
Unk. Alkane				CAS #:			
16.160	3241315	552.871401	5528.71	0		0	2
Unk. Alkane				CAS #:			
16.219	1104009	188.310921	1883.11	0		0	2
Unk. Alkane				CAS #:			
16.298	12712836	2168.42963	21684.3	0		0	2
Unk. Alkane				CAS #:			
16.386	4711406	803.624989	8036.25	0		0	2
Unk. Alkane				CAS #:			
16.633	33925944	5786.75136	57867.5	0		0	2
Benzene, 1-ethyl-2-methyl-				CAS #: 611-14-3			
16.692	37490284	6394.72118	63947.2	94	NIS08.1	9314	2
Unk. Alkane				CAS #:			
16.850	17762762	3029.79602	30298.0	0		0	2
Benzene, 1,2,3-trimethyl-				CAS #: 526-73-8			
17.047	28910611	4931.28561	49312.9	95	NIS08.1	9310	2
Benzene, 1-methyl-2-(1-methylethyl)-				CAS #: 527-84-4			
17.215	45657866	7787.86642	77878.7	89	NIS08.1	14728	2
Unknown				CAS #:			
17.284	14857137	2534.18320	25341.8	0		0	2
Unk. Alkane				CAS #:			
17.530	1.152e+08	19657.8254	196578	0		0	2
Benzene, 1-methyl-4-propyl-				CAS #: 1074-55-1			
17.767	49907805	8512.77902	85127.8	91	NIS08.1	14679	2

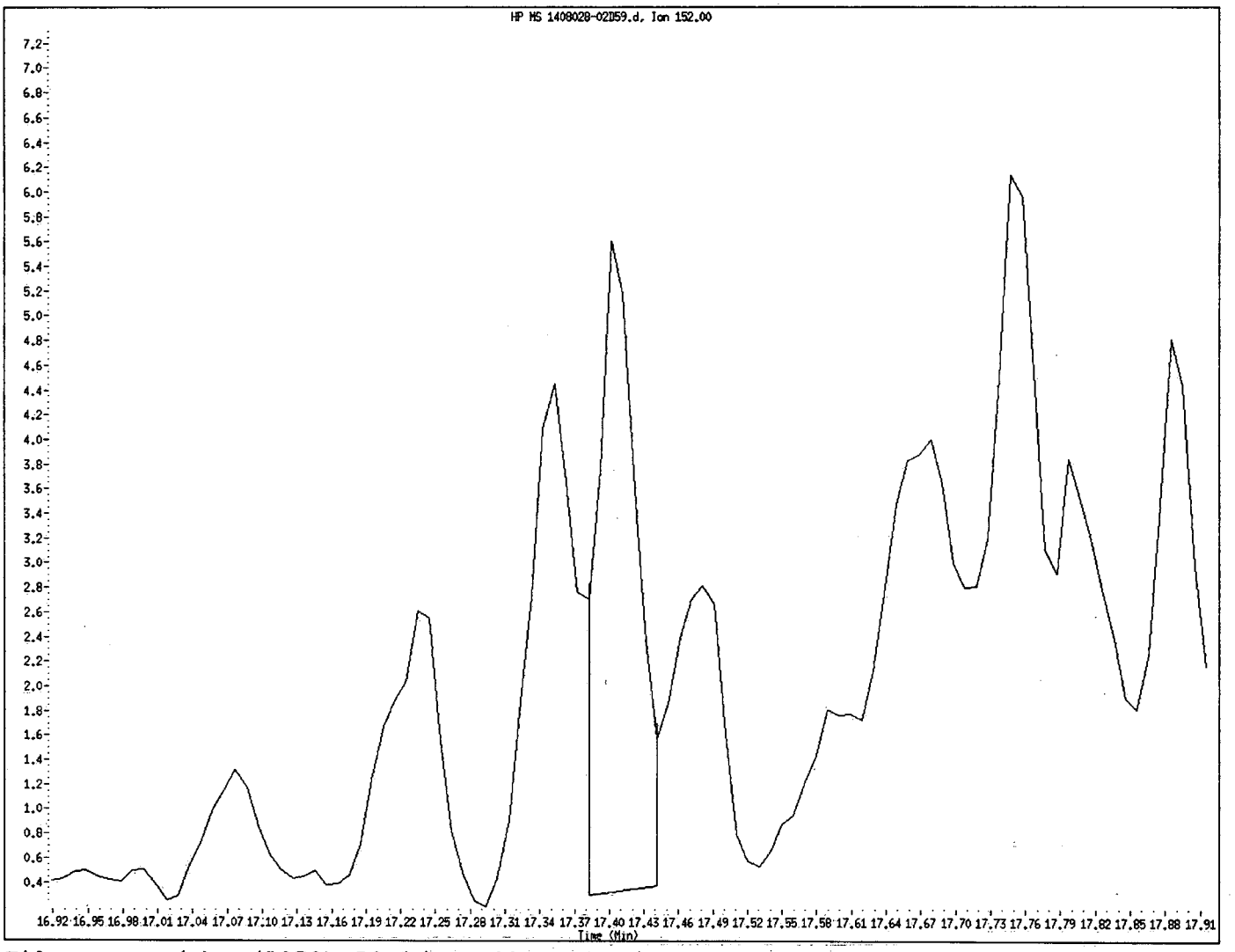
8/18/2014

Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-02D59.d
Report Date: 18-Aug-2014 15:26

RT	AREA	CONCENTRATIONS ON-COL(ng)	FINAL(ug/Kg)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
17.846	42940190	7324.31214	73243.1	0		0	2
Benzene, 1-ethyl-2,3-dimethyl-				CAS #: 933-98-2			
17.915	30451635	5194.13829	51941.4	97	NIS08.1	14702	2
Benzene, 1-methyl-4-(1-methylpropyl)-				CAS #: 1595-16-0			
18.033	56458928	9630.20468	96302.0	87	NIS08.1	22480	2
Unknown				CAS #:			
18.112	35167146	5998.46335	59984.6	0		0	2
Benzene, 4-ethyl-1,2-dimethyl-				CAS #: 934-80-5			
18.349	45091029	7691.18099	76911.8	96	NIS08.1	14710	2
Unk. Alkane				CAS #:			
18.477	52736854	8995.33017	89953.3	0		0	2
Unknown				CAS #:			
18.664	48767396	8318.25930	83182.6	0		0	2
Pentacyclo[5.2.1.0(1,5).0(5,9).0(6,8)]de				CAS #: 1000185-59-0			
18.684	26391295	4501.56566	45015.7	86	NIS08.1	13942	2
Benzene, 1-ethyl-3,5-dimethyl-				CAS #: 934-74-7			
18.802	32941166	5618.77782	56187.8	87	NIS08.1	14707	2
Naphthalene, 1,2,3,4-tetrahydro-				CAS #: 119-64-2			
19.088	89262732	15225.5524	152256	90	NIS08.1	13911	2
Unknown				CAS #:			
19.236	15116241	2578.37867	25783.8	0		0	2
Unknown				CAS #:			
19.355	21913649	3737.81309	37378.1	0		0	2
Naphthalene, 1,2,3,4-tetrahydro-6-methyl				CAS #: 1680-51-9			
20.360	61765302	10535.3133	105353	95	NIS08.1	21361	2
Naphthalene, 1,2,3,4-tetrahydro-5-methyl				CAS #: 2809-64-5			
20.883	18339361	3128.14655	31281.5	95	NIS08.1	21352	2

Roldan Ha[illegible] 8/18/2014

1,4-Dichlorobenzene-d4 CAS Number 3855-82-1 Area = 132717 Manually integrated



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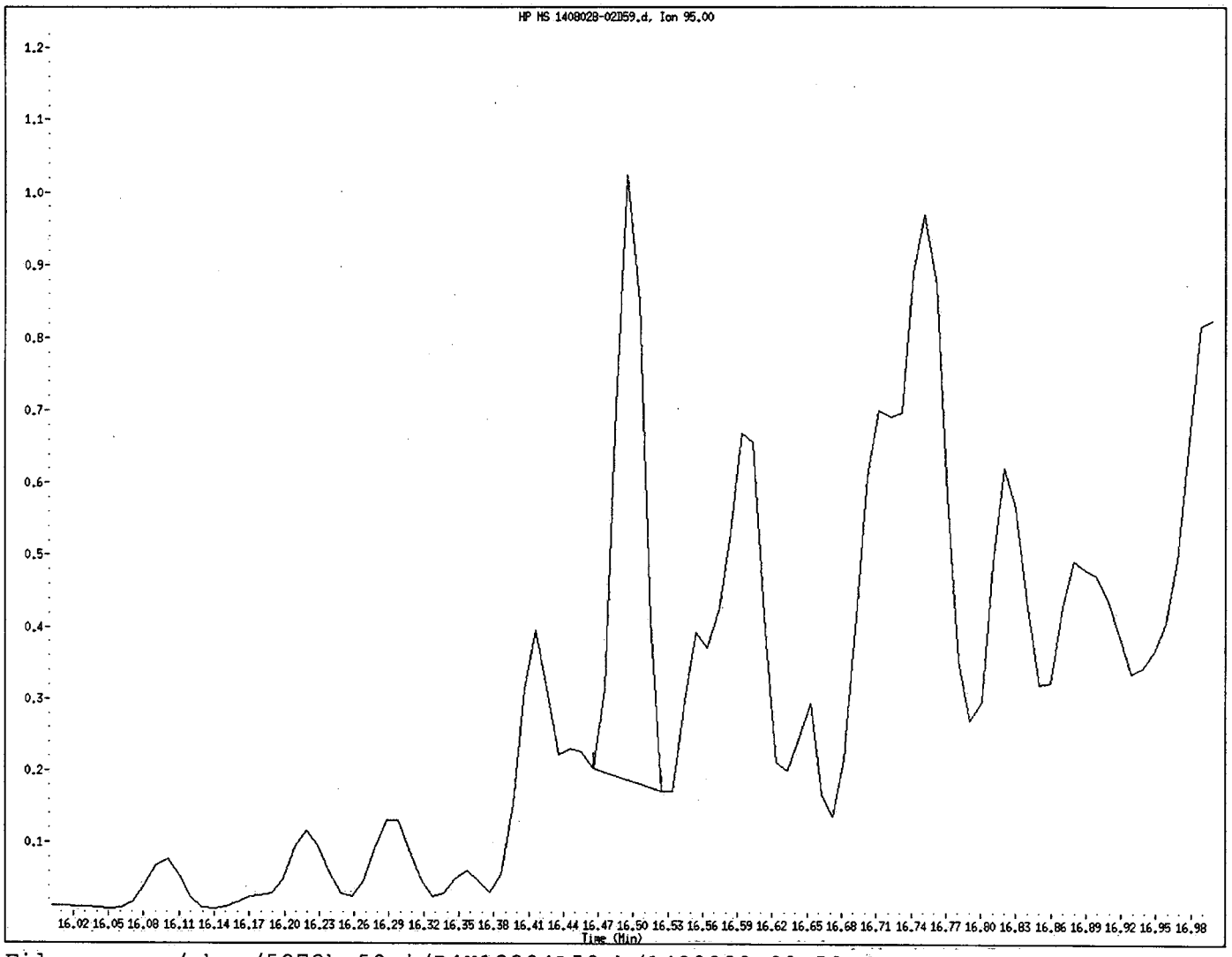
Client ID: P001-DR0502-LW-01
Instrument ID: 5972hp59.i
Injection Date and Time: 13-AUG-2014 23:42
Retention Time: 17.40
Operator ID: JAO

8/18/2014

Bromofluorobenzene CAS Number 460-00-4 Area = 139998 Manually integrated



File name: /chem/5972hp59.i/D4H13004A59.b/1408028-02D59.d
Client ID: P001-DR0502-LW-01
Instrument ID: 5972hp59.i
Injection Date and Time: 13-AUG-2014 23:42
Retention Time: 16.49
Operator ID: JAO

8/18/2014

Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-02D59.d

Date : 13-AUG-2014 23:42

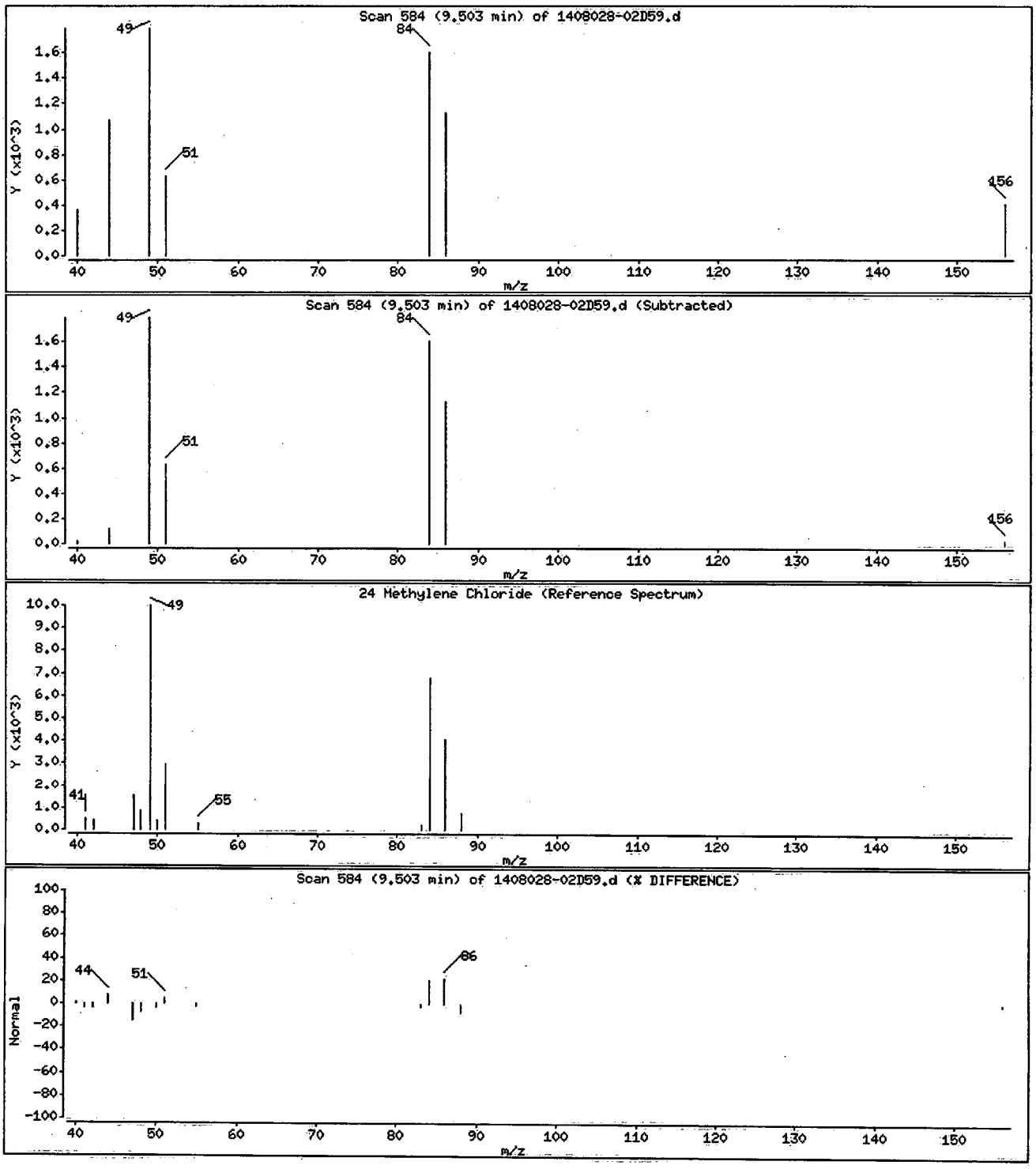
Client ID: P001-DR0502-LW-01 Instrument: 5972hp59.i

Sample Info: 1408028-02:JAO

Operator: JAO

Column phase: SPB-624 Column diameter: 0.32

24 Methylene Chloride Concentration: 68.5042 ug/Kg



8/18/2014

Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-02D59.d

Date : 13-AUG-2014 23:42

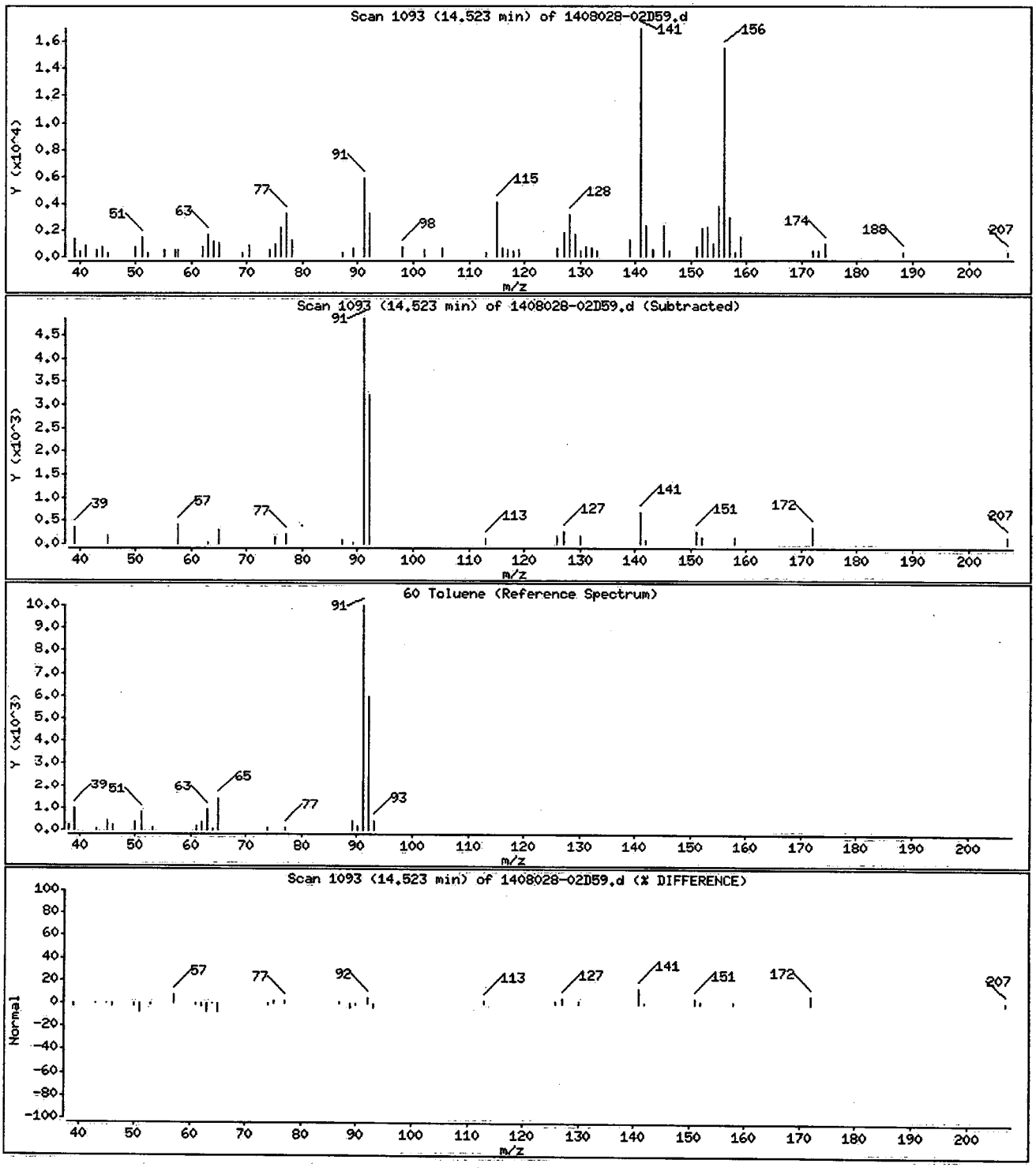
Client ID: P001-DR0502-LW-01 Instrument: 5972hp59.i

Sample Info: 1408028-02:JAO

Operator: JAO

Column phase: SPB-624 Column diameter: 0.32

60 Toluene Concentration: 50.7626 ug/Kg



Roldan Hani 8/18/2014

Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-02D59.d

Date : 13-AUG-2014 23:42

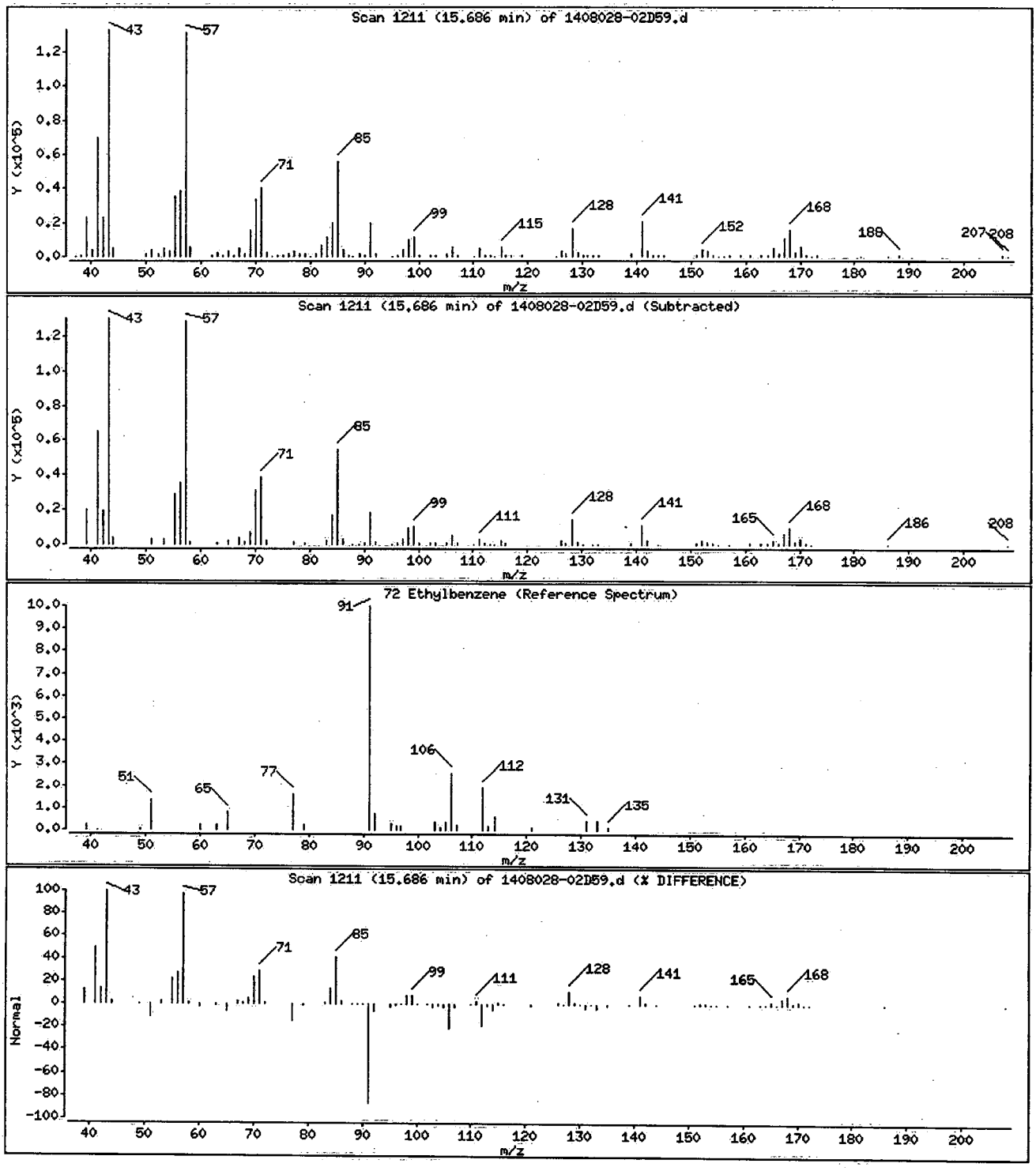
Client ID: P001-DR0502-LW-01 Instrument: 5972hp59.i

Sample Info: 1408028-02;JAO

Operator: JAO

Column phase: SPB-624 Column diameter: 0.32

72 Ethylbenzene Concentration: 164.160 ug/Kg



8/18/2014

Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-02D59.d

Date : 13-AUG-2014 23:42

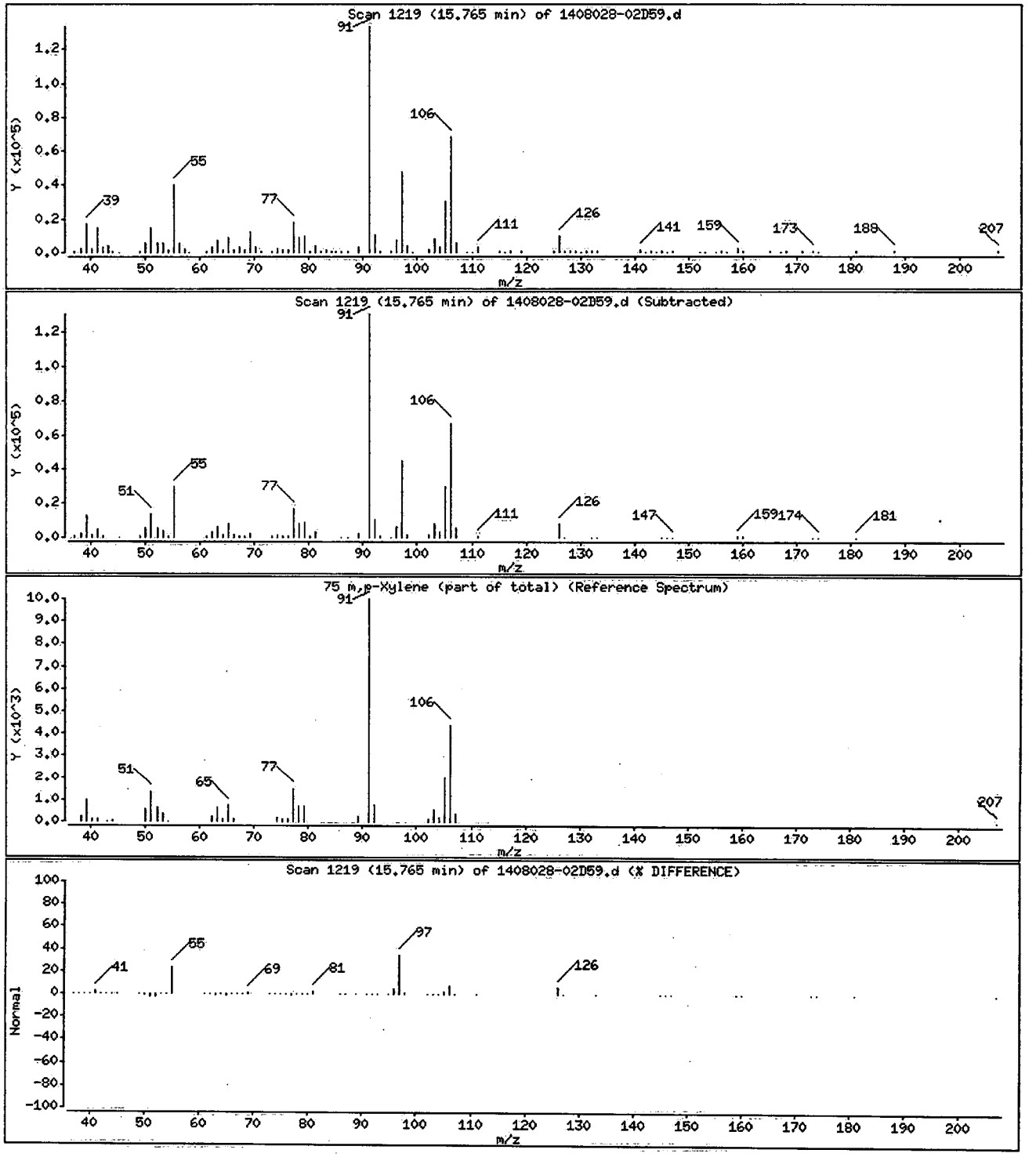
Client ID: P001-DR0502-LW-01 Instrument: 5972hp59.i

Sample Info: 1408028-02:JAO

Operator: JAO

Column phase: SPB-624 Column diameter: 0.32

75 m,p-Xylene (part of total) Concentration: 1363.31 ug/Kg



8/18/2014

Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-02D59.d

Date : 13-AUG-2014 23:42

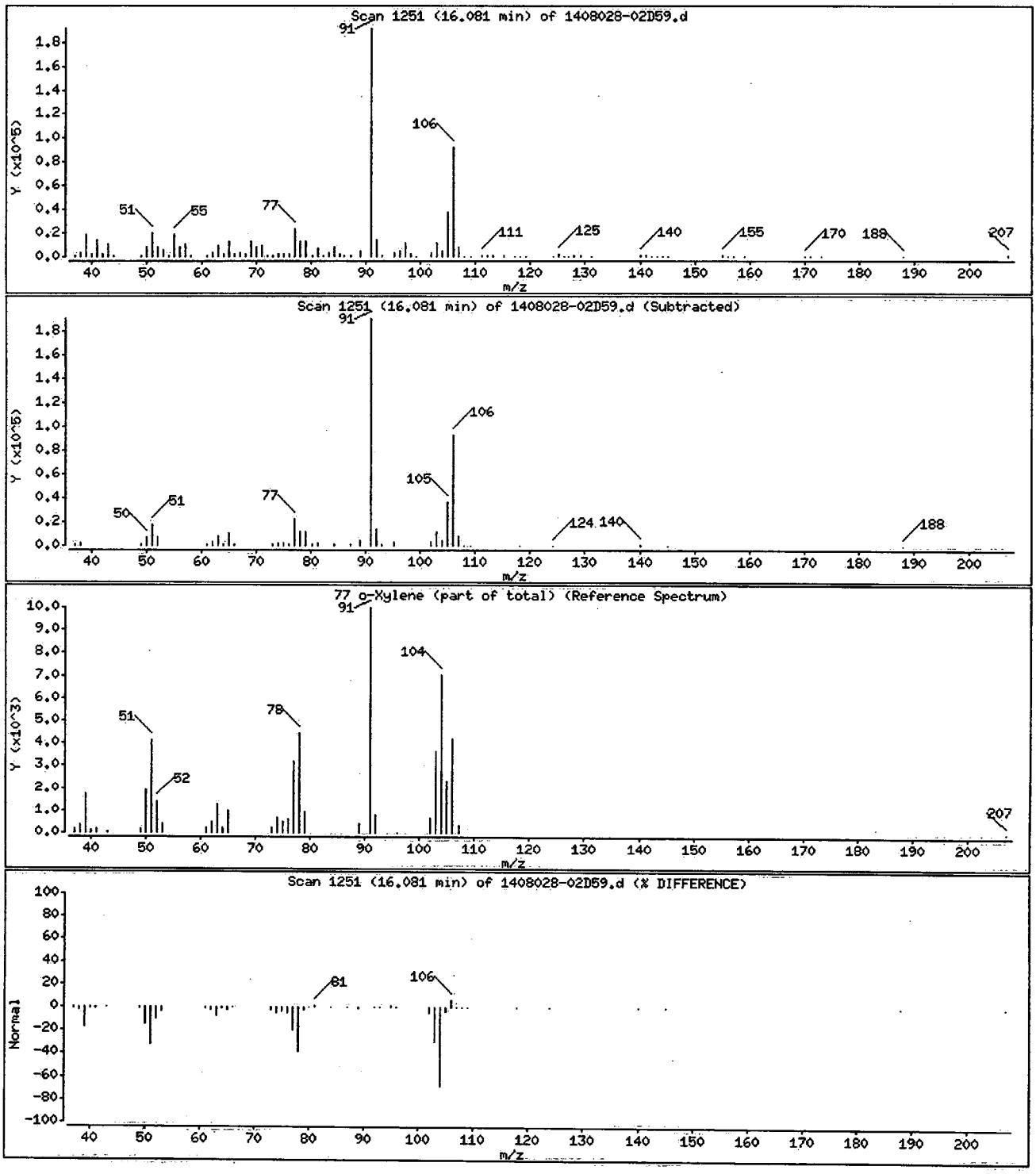
Client ID: P001-DR0502-LW-01 Instrument: 5972hp59.i

Sample Info: 1408028-02:JAO

Operator: JAO

Column phase: SPB-624 Column diameter: 0.32

77 o-Xylene (part of total) Concentration: 1872.90 ug/Kg



Rolder Hani 8/18/2014

Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-02D59.d

Date : 13-AUG-2014 23:42

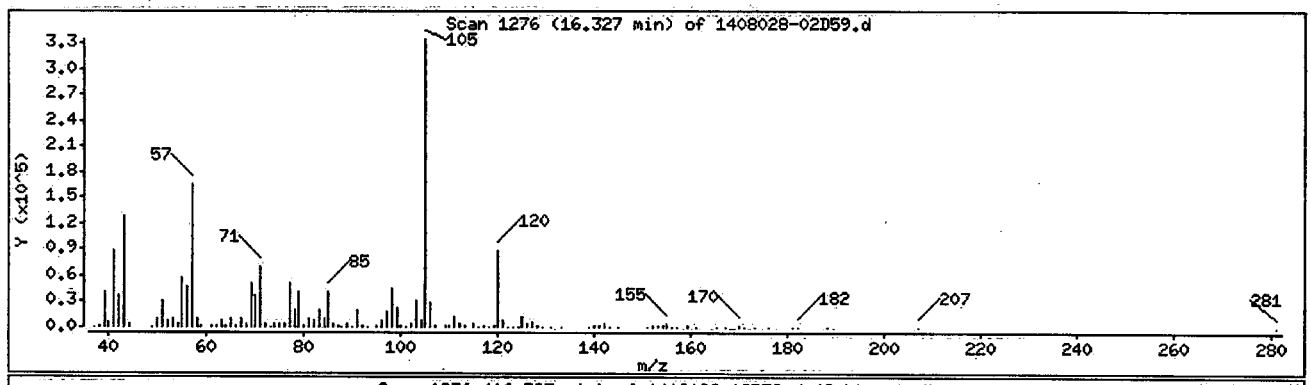
Client ID: P001-DR0502-LW-01 Instrument: 5972hp59.i

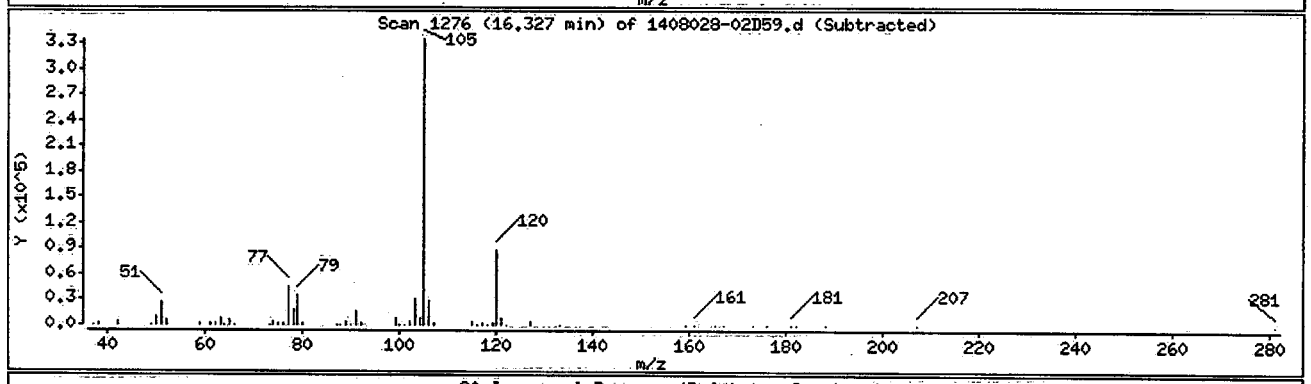
Sample Info: 1408028-02:JAO

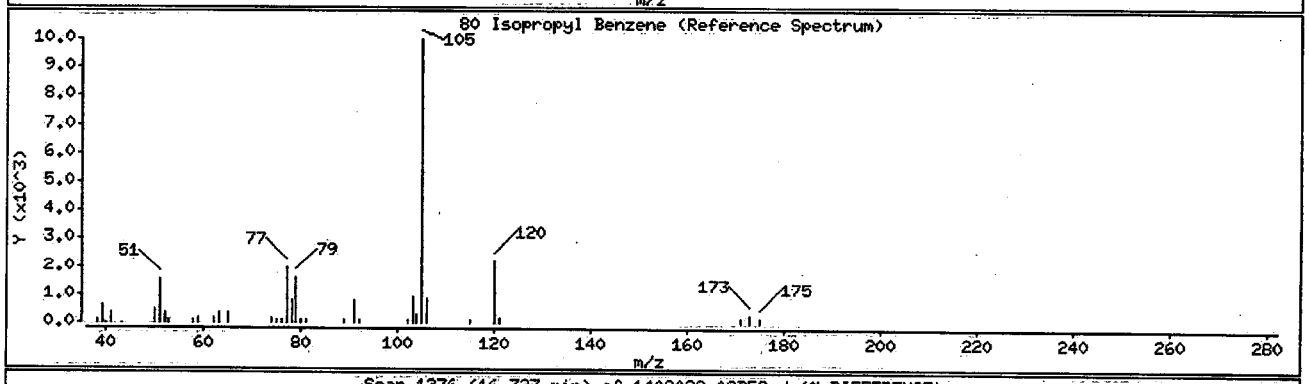
Operator: JAO

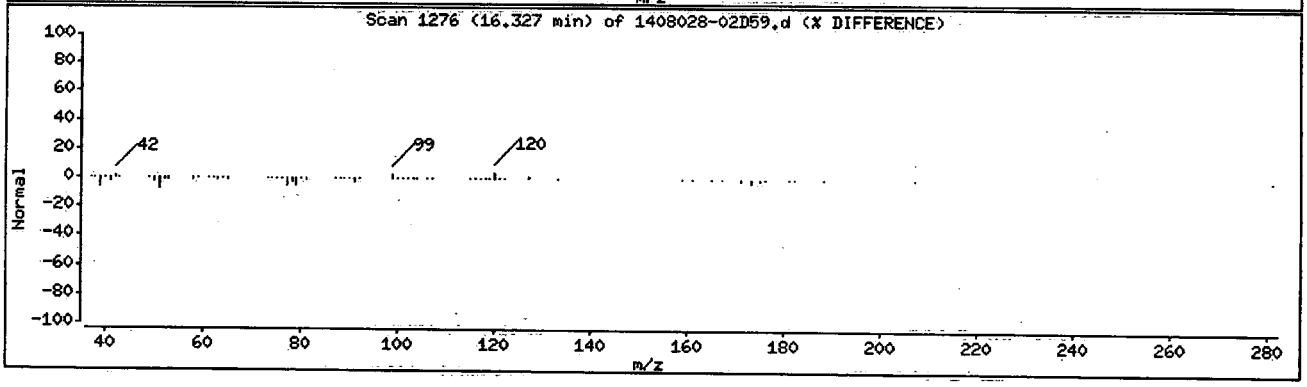
Column phase: SPB-624 Column diameter: 0.32

80 Isopropyl Benzene Concentration: 2850.03 ug/Kg









Robin Hai 8/18/2014

Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-02D59.d

Date : 13-AUG-2014 23:42

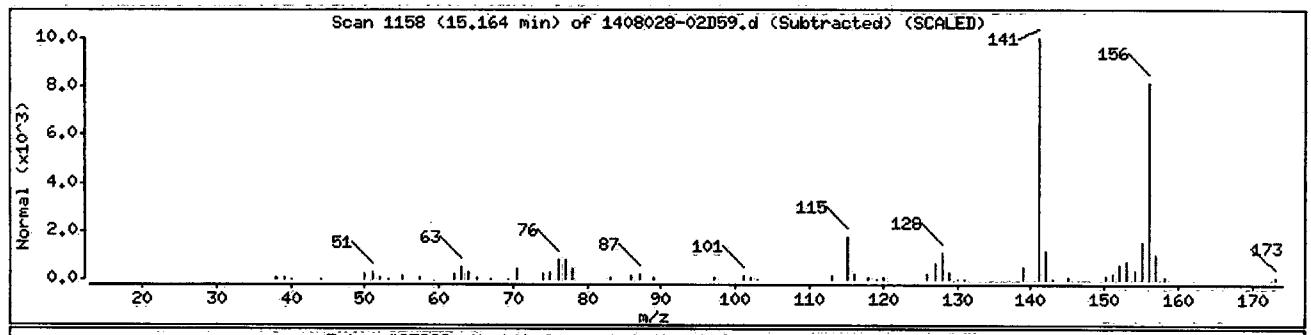
Client ID: P001-DR0502-LW-01 Instrument: 5972hp59.i

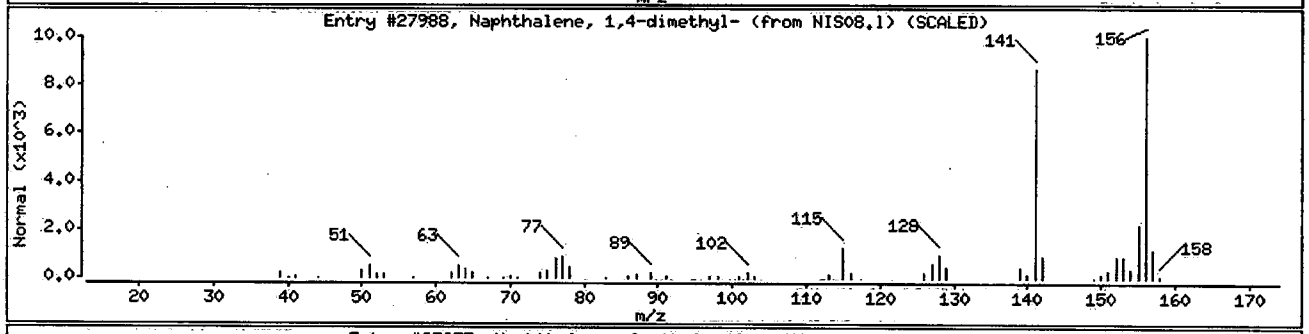
Sample Info: 1408028-02:JAO

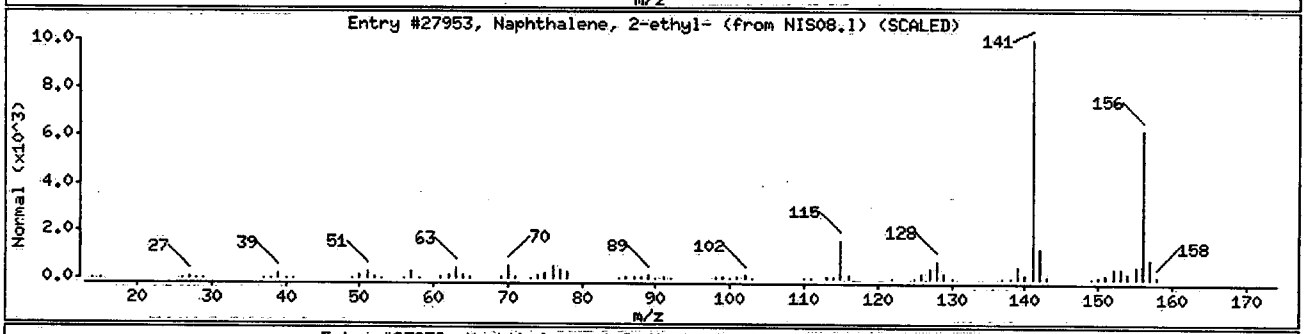
Operator: JAO

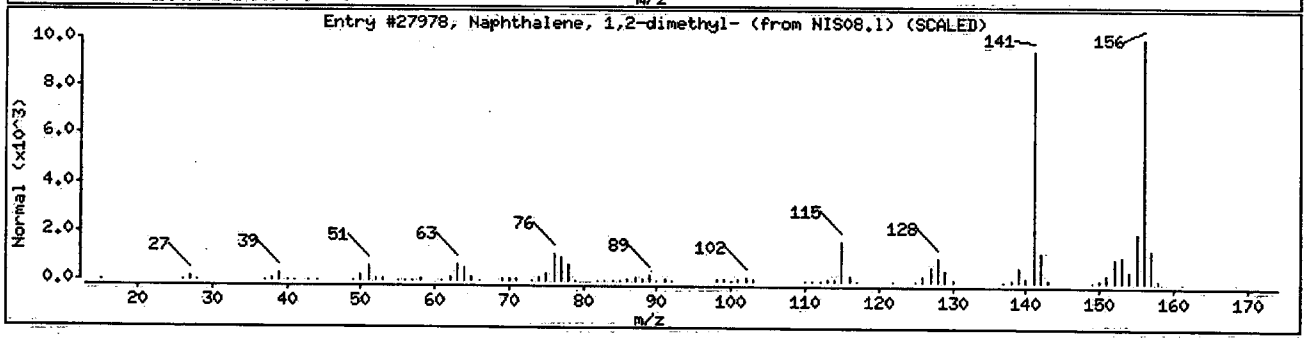
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Naphthalene, 1,4-dimethyl-	571-58-4	NIS08.l	27988	96	C12H12	156
Naphthalene, 2-ethyl-	939-27-5	NIS08.l	27953	95	C12H12	156
Naphthalene, 1,2-dimethyl-	573-98-8	NIS08.l	27978	95	C12H12	156









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Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-02D59.d

Date : 13-AUG-2014 23:42

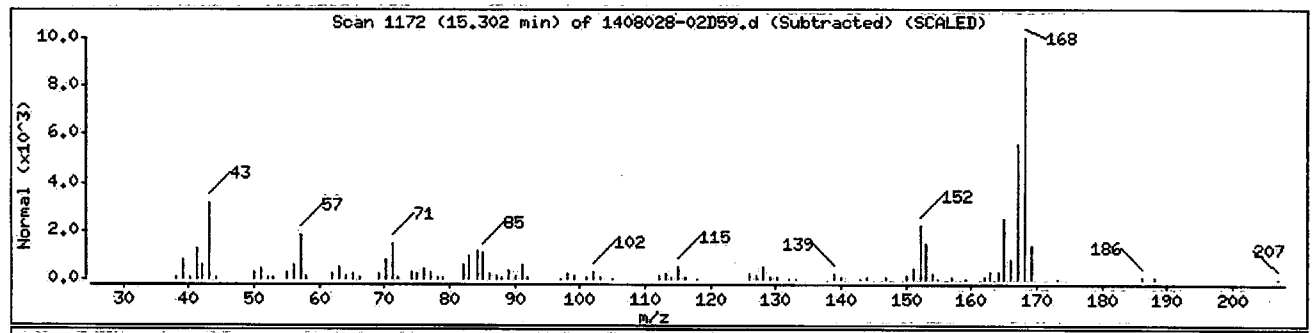
Client ID: P001-DR0502-LW-01 Instrument: 5972hp59.i

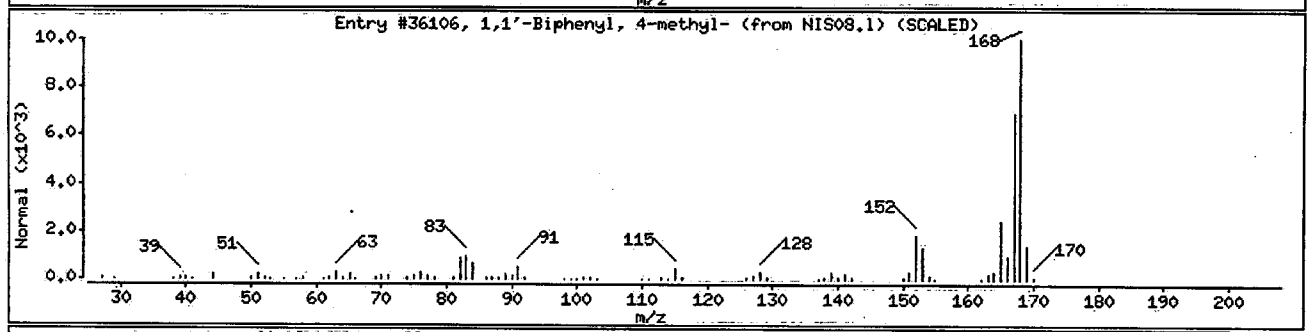
Sample Info: 1408028-02:JAO

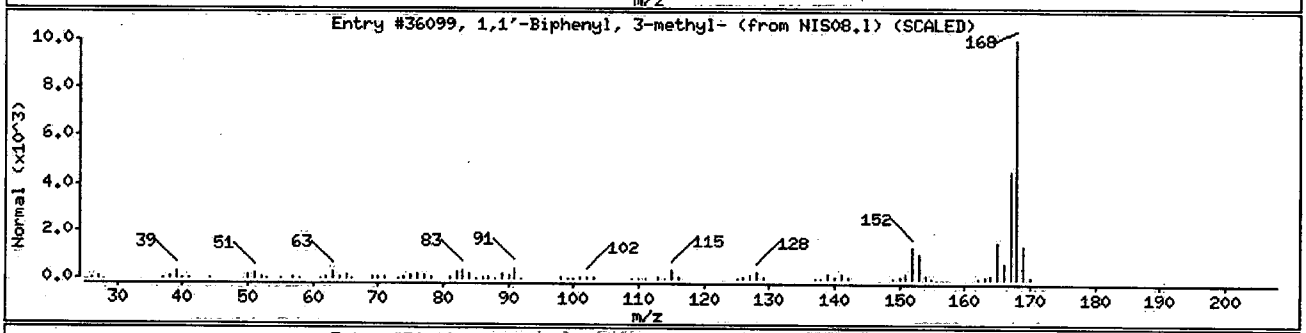
Operator: JAO

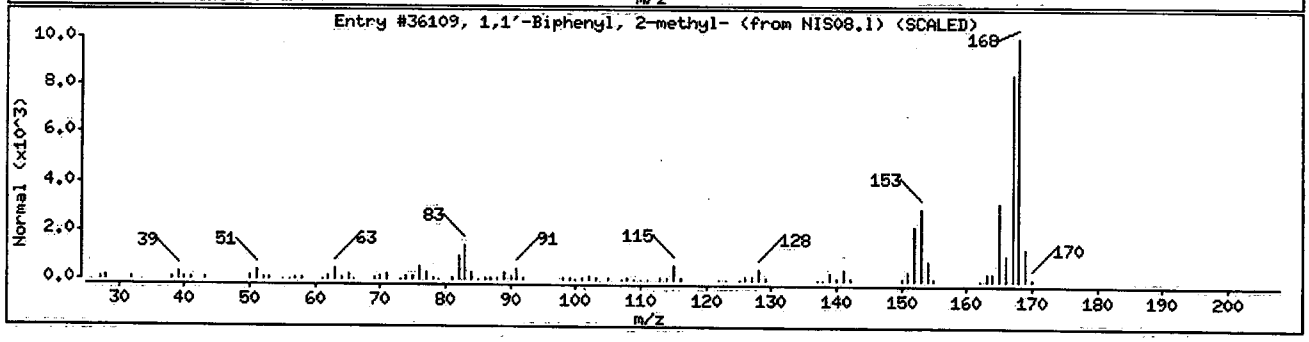
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,1'-Biphenyl, 4-methyl-	644-08-6	NIS08.l	36106	95	C13H12	168
1,1'-Biphenyl, 3-methyl-	643-93-6	NIS08.l	36099	90	C13H12	168
1,1'-Biphenyl, 2-methyl-	643-58-3	NIS08.l	36109	64	C13H12	168









Robert Hamm 8/18/2014

Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-02D59.d

Date : 13-AUG-2014 23:42

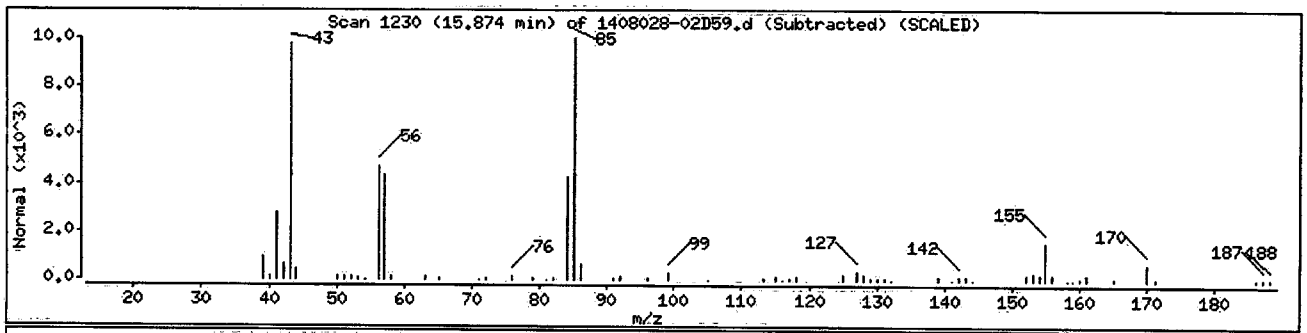
Client ID: P001-DR0502-LW-01 Instrument: 5972hp59.i

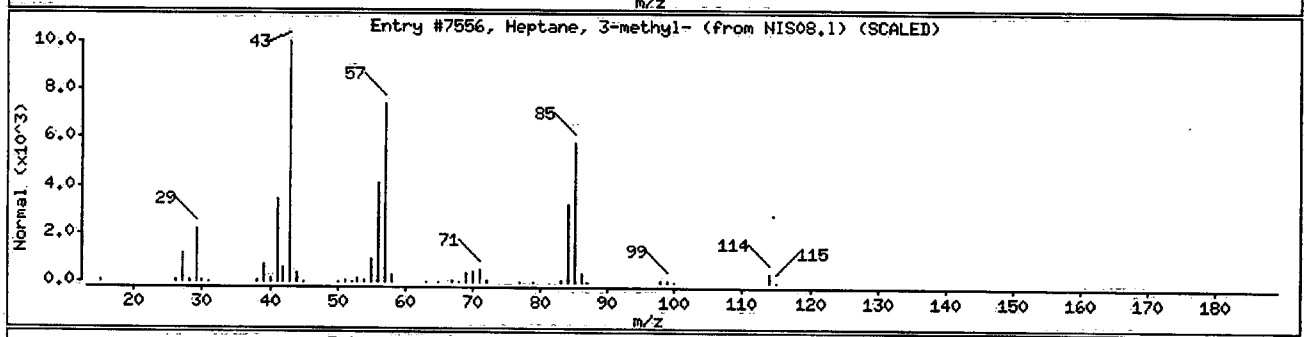
Sample Info: 1408028-02:JAO

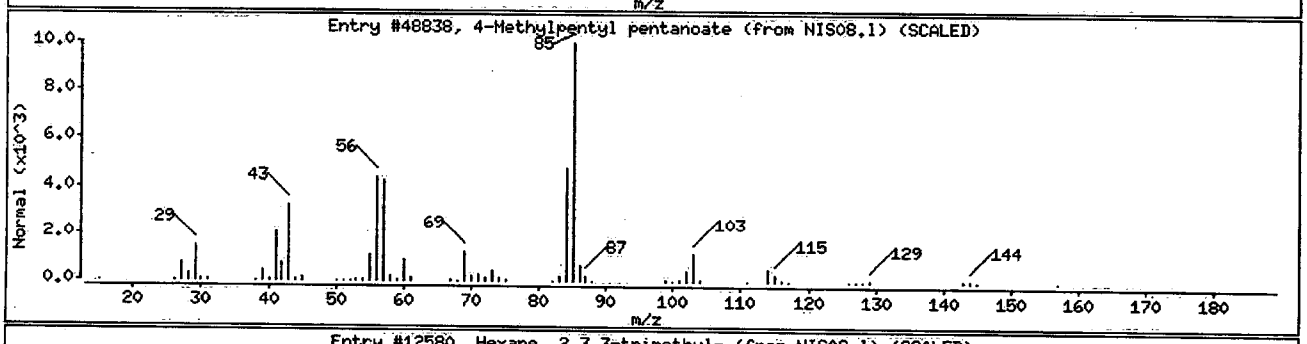
Operator: JAO

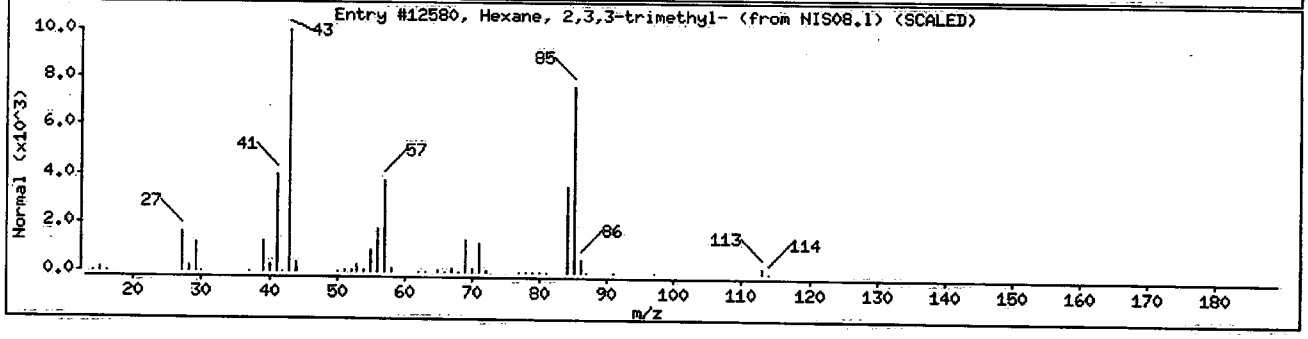
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unk. Alkane						
Heptane, 3-methyl-	589-81-1	NIS08.1	7556	64	C8H18	114
4-Methylpentyl pentanoate	35852-47-2	NIS08.1	48838	64	C11H22O2	186
Hexane, 2,3,3-trimethyl-	16747-28-7	NIS08.1	12580	59	C9H20	128









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Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-02D59.d

Date : 13-AUG-2014 23:42

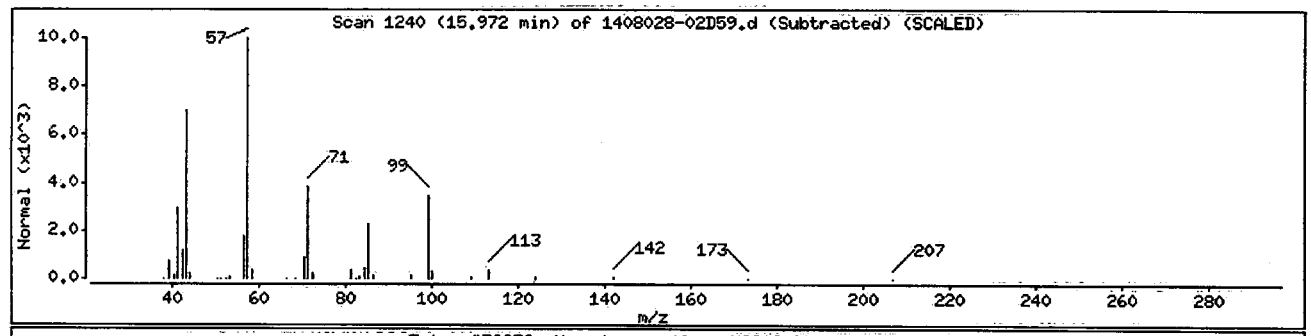
Client ID: P001-DR0502-LW-01 Instrument: 5972hp59.i

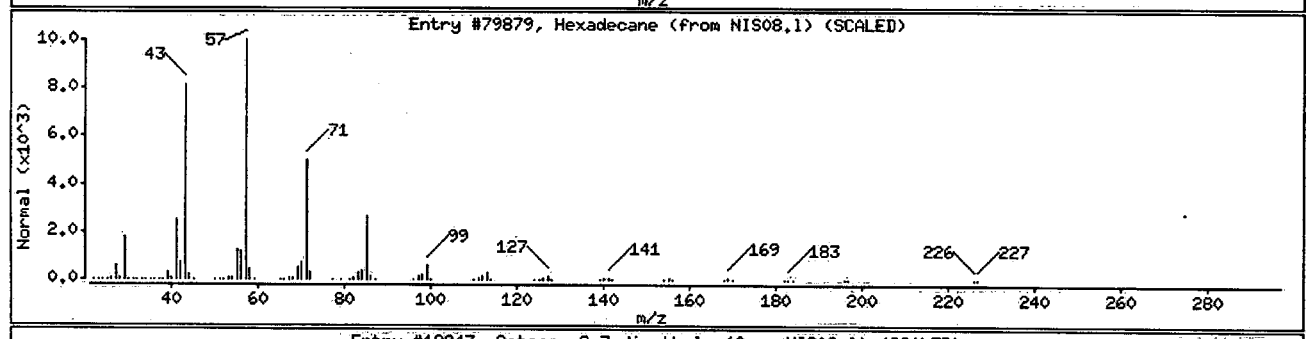
Sample Info: 1408028-02:JAO

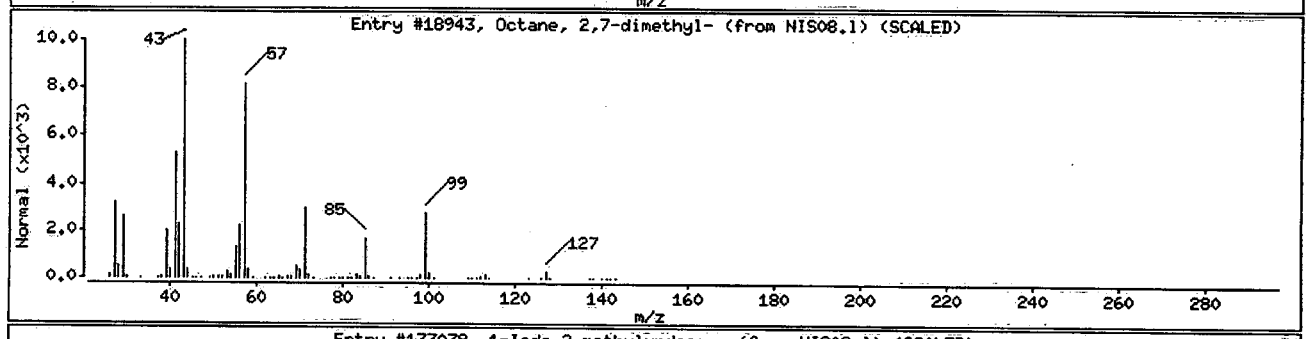
Operator: JAO

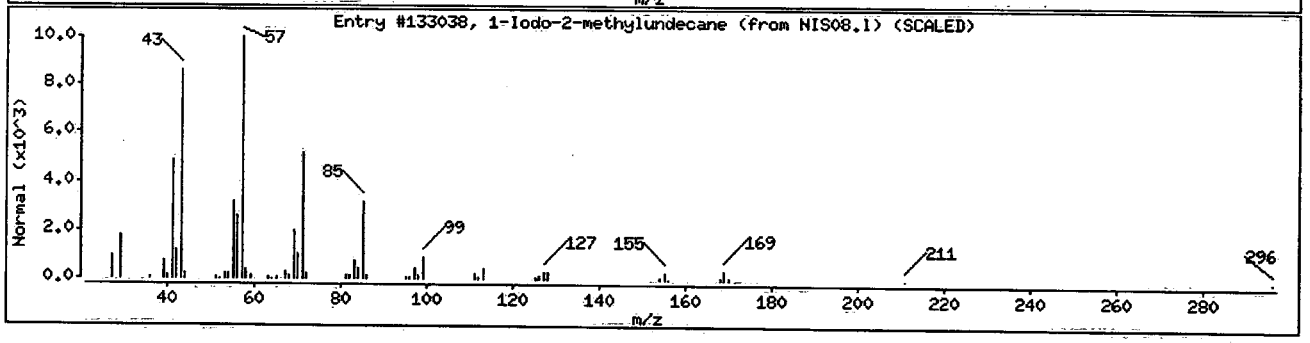
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unk. Alkane						
Hexadecane	544-76-3	NIS08.1	79879	64	C16H34	226
Octane, 2,7-dimethyl-	1072-16-8	NIS08.1	18943	64	C10H22	142
1-Iodo-2-methylundecane	73105-67-6	NIS08.1	133038	64	C12H25I	296









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Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-02D59.d

Date : 13-AUG-2014 23:42

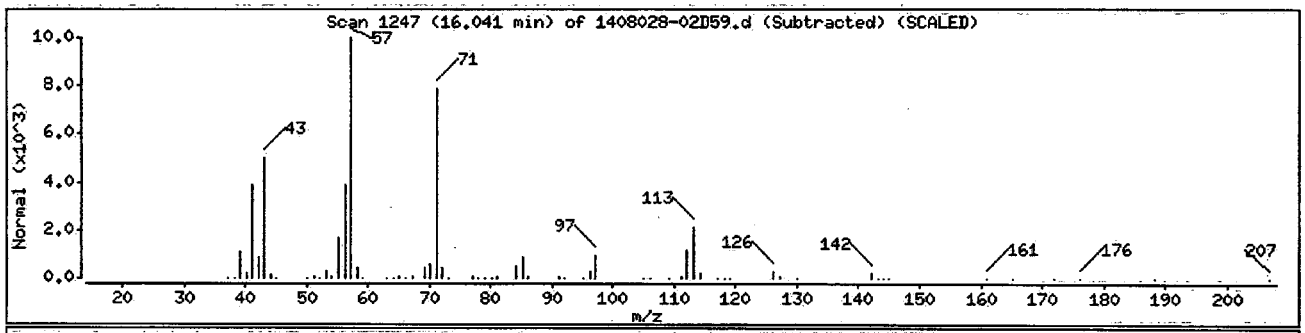
Client ID: P001-DR0502-LW-01 Instrument: 5972hp59.i

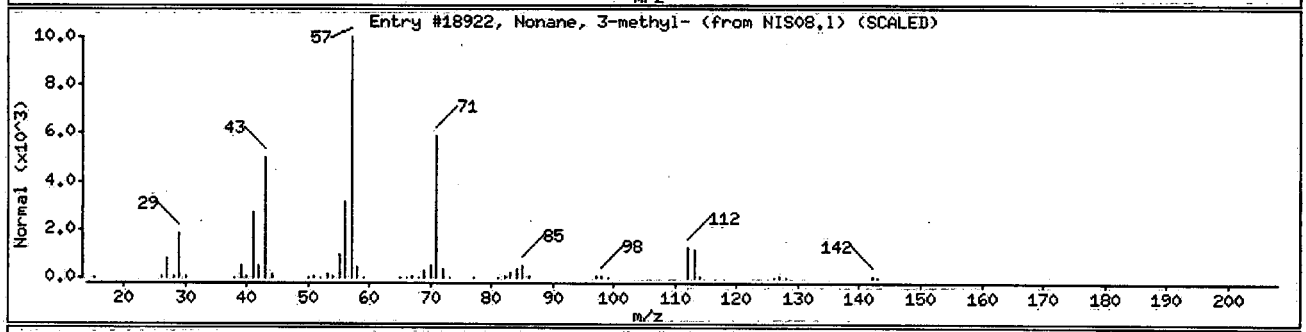
Sample Info: 1408028-02:JAO

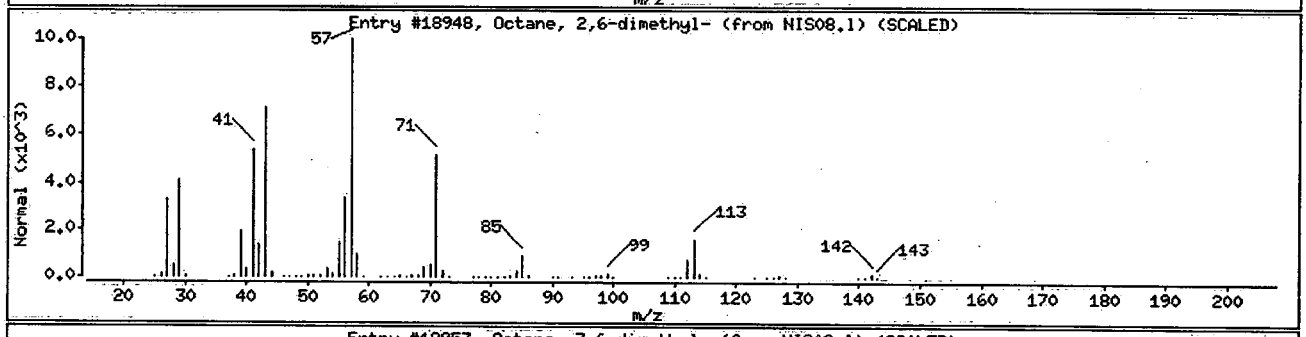
Operator: JAO

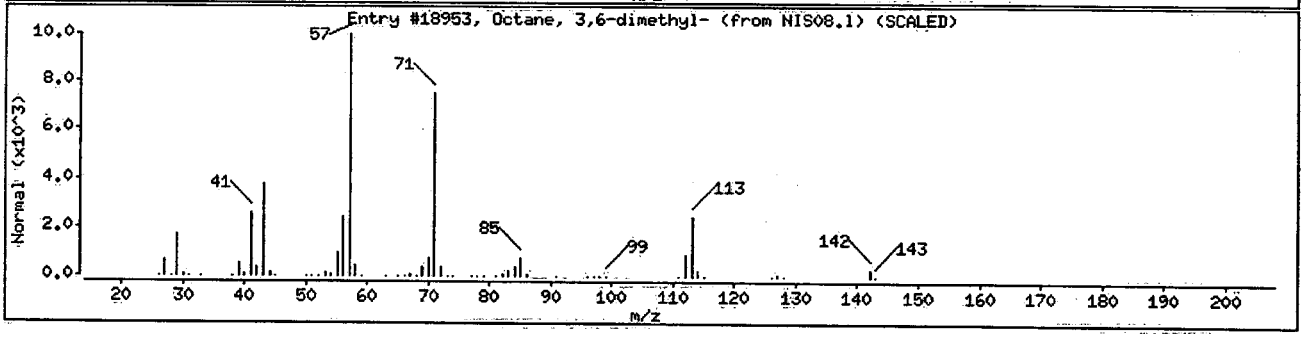
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unk. Alkane						
Nonane, 3-methyl-	5911-04-6	NIS08.1	18922	90	C10H22	142
Octane, 2,6-dimethyl-	2051-30-1	NIS08.1	18948	90	C10H22	142
Octane, 3,6-dimethyl-	15869-94-0	NIS08.1	18953	81	C10H22	142









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Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-02D59.d

Date : 13-AUG-2014 23:42

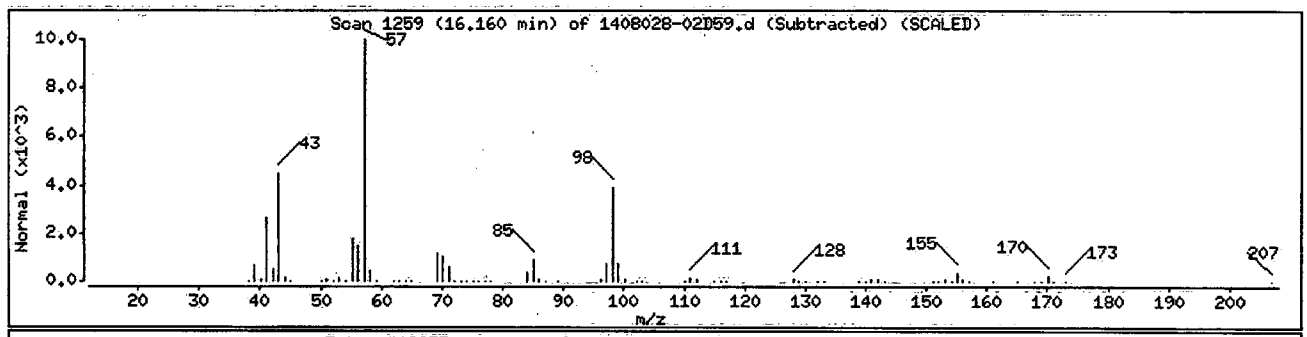
Client ID: P001-DR0502-LW-01 Instrument: 5972hp59.i

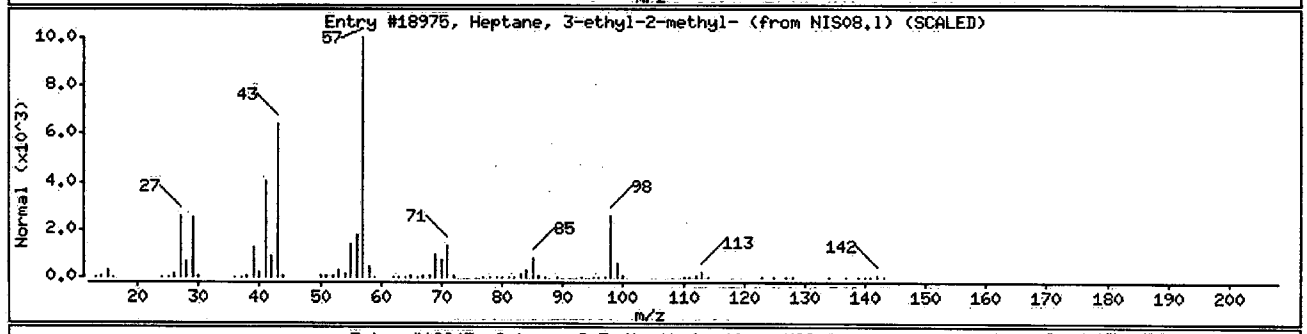
Sample Info: 1408028-02:JAO

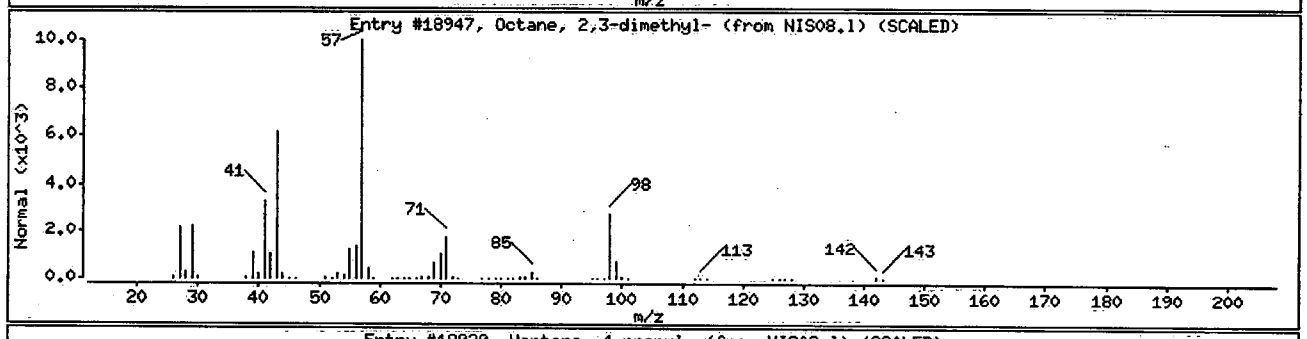
Operator: JAO

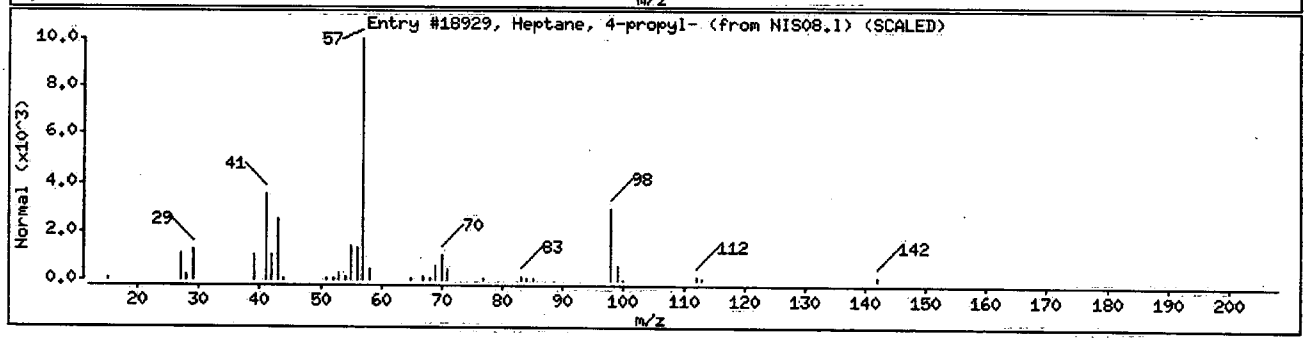
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unk. Alkane						
Heptane, 3-ethyl-2-methyl-	14676-29-0	NIS08.l	18975	87	C10H22	142
Octane, 2,3-dimethyl-	7146-60-3	NIS08.l	18947	64	C10H22	142
Heptane, 4-propyl-	3178-29-8	NIS08.l	18929	64	C10H22	142









8/18/2014

Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-02D59.d

Date : 13-AUG-2014 23:42

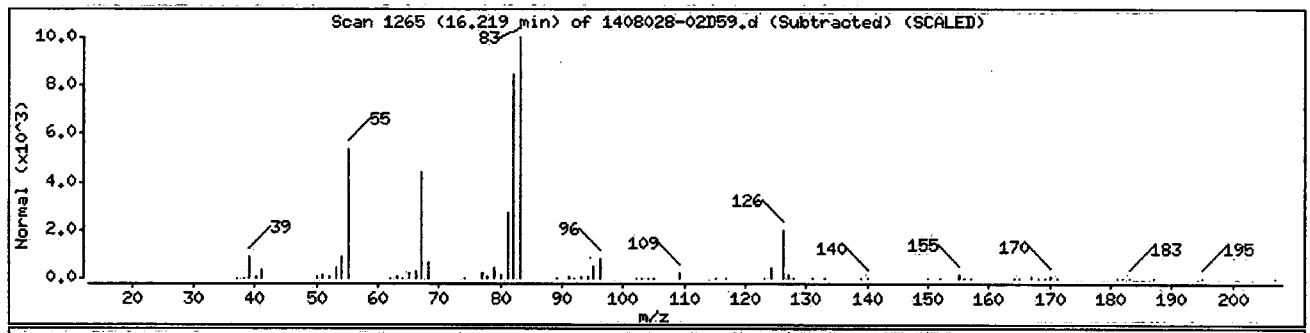
Client ID: P001-DR0502-LW-01 Instrument: 5972hp59.i

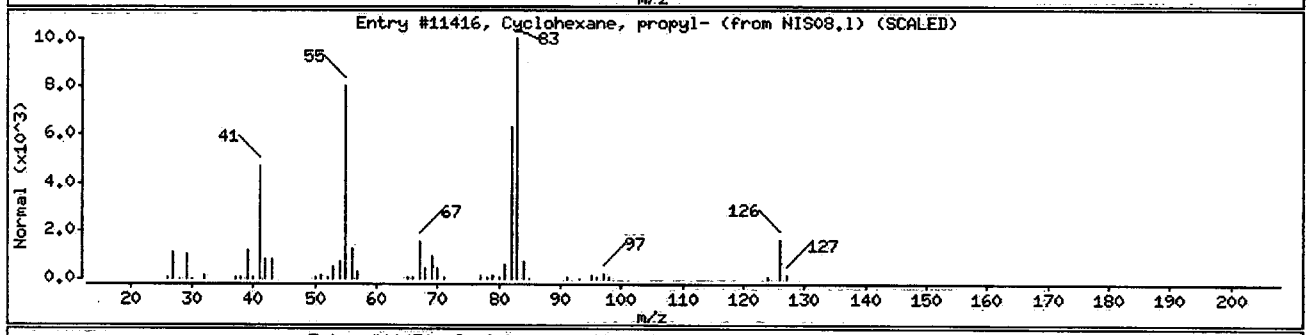
Sample Info: 1408028-02:JAO

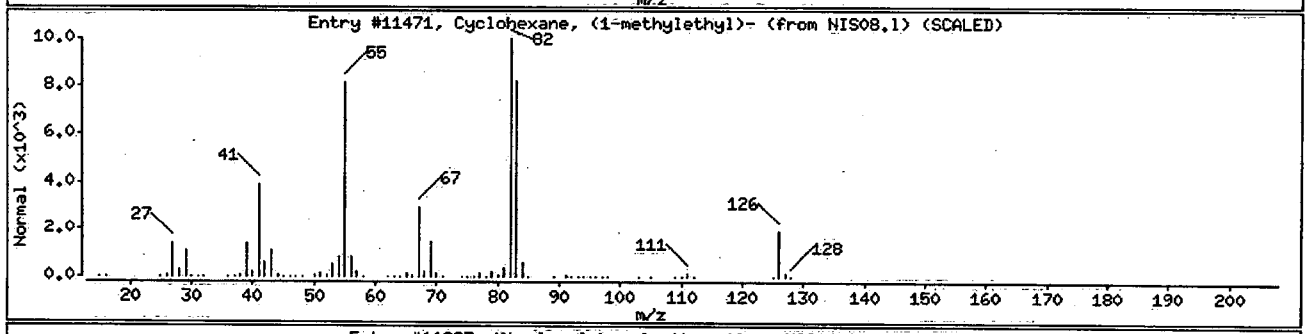
Operator: JAO

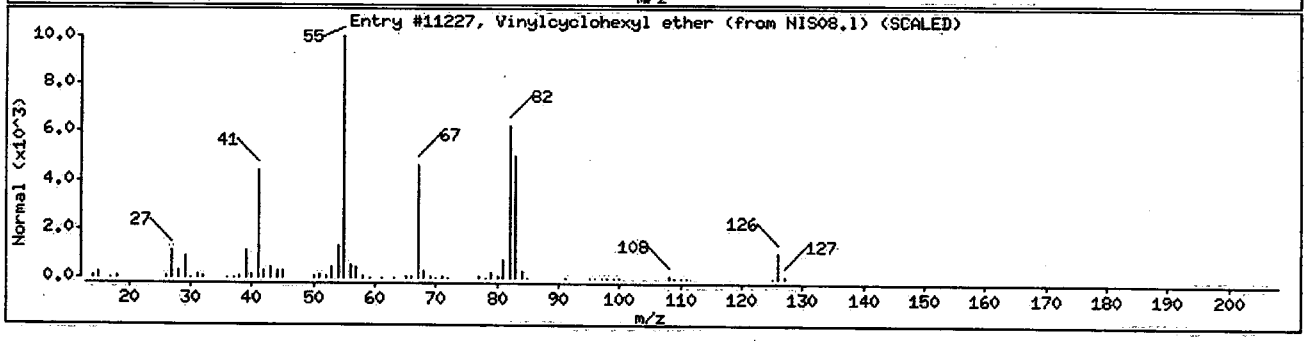
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unk. Alkane						
Cyclohexane, propyl-	1678-92-8	NIS08.l	11416	72	C9H18	126
Cyclohexane, (1-methylethyl)-	696-29-7	NIS08.l	11471	72	C9H18	126
Vinylcyclohexyl ether	2182-55-0	NIS08.l	11227	59	C8H14O	126









8/18/2014

Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-02D59.d

Date : 13-AUG-2014 23:42

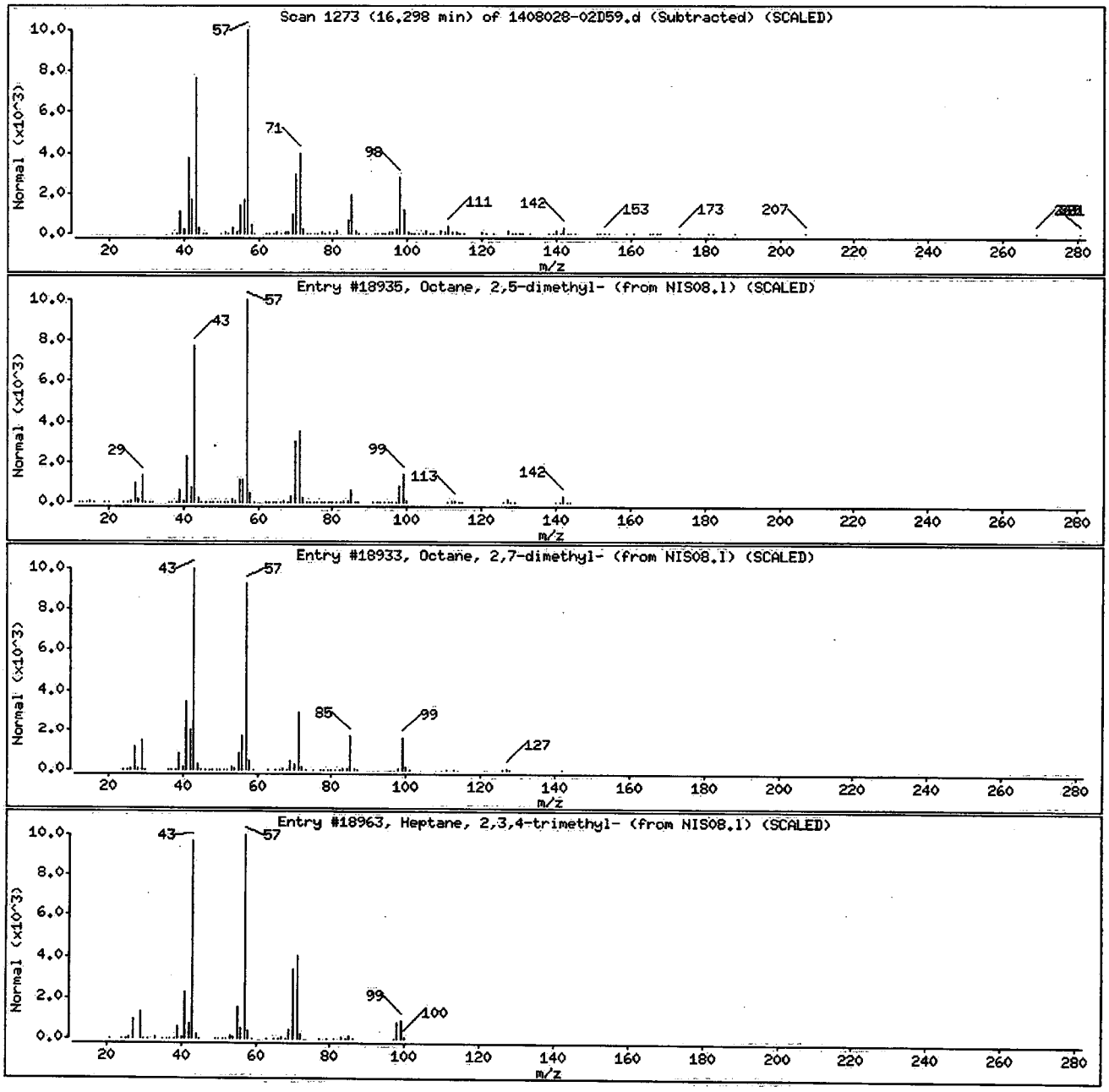
Client ID: P001-DR0502-LW-01 Instrument: 5972hp59.i

Sample Info: 1408028-02:JAO

Operator: JAO

Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unk. Alkane						
Octane, 2,5-dimethyl-	15869-89-3	NIS08.l	18935	81	C10H22	142
Octane, 2,7-dimethyl-	1072-16-8	NIS08.l	18933	64	C10H22	142
Heptane, 2,3,4-trimethyl-	52896-95-4	NIS08.l	18963	64	C10H22	142



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Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-02D59.d

Date : 13-AUG-2014 23:42

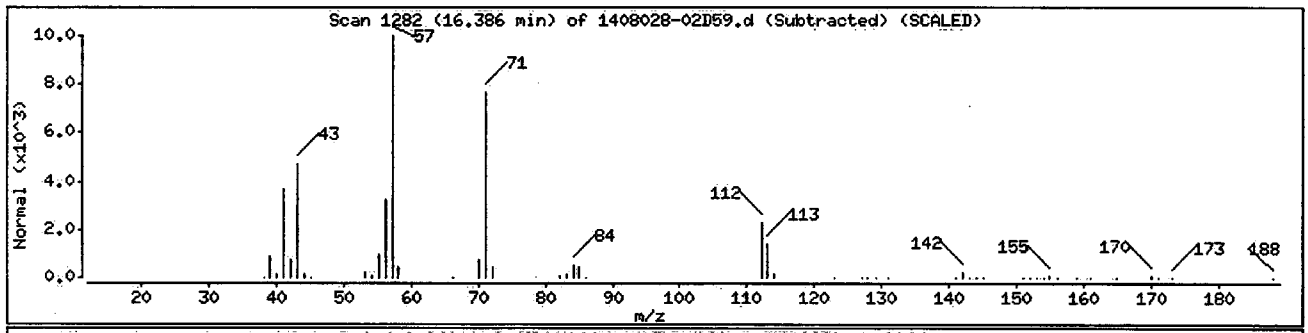
Client ID: P001-DR0502-LW-01 Instrument: 5972hp59.i

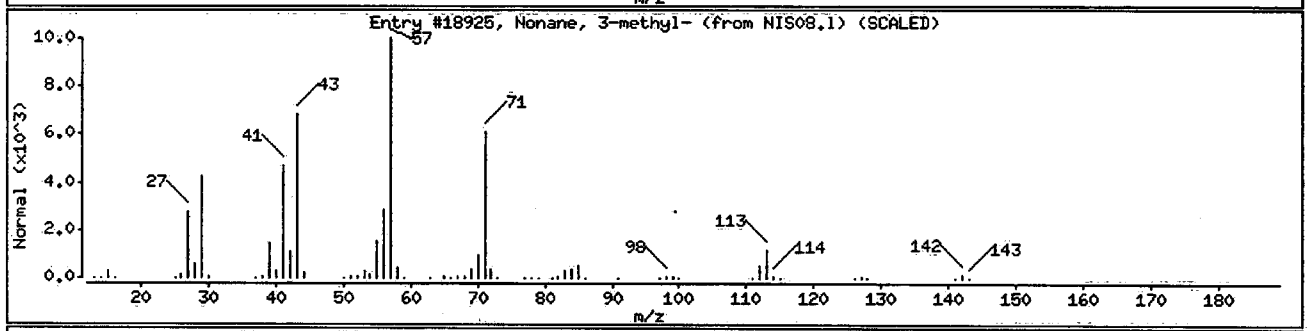
Sample Info: 1408028-02:JAO

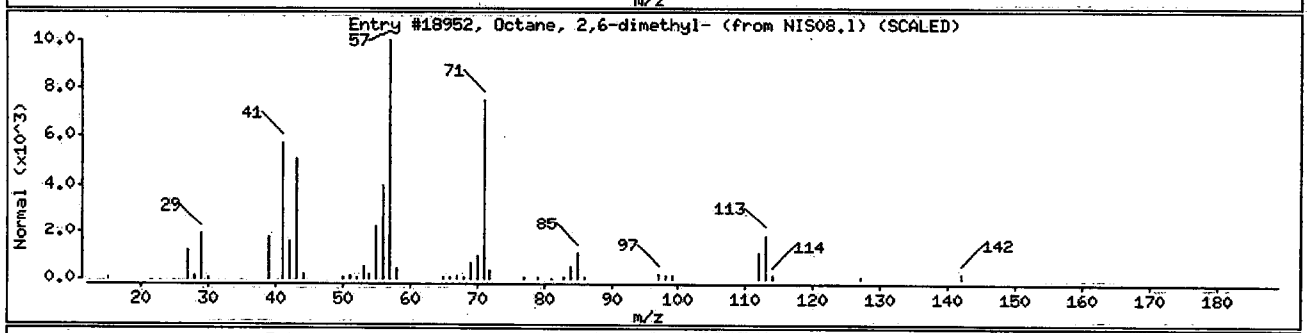
Operator: JAO

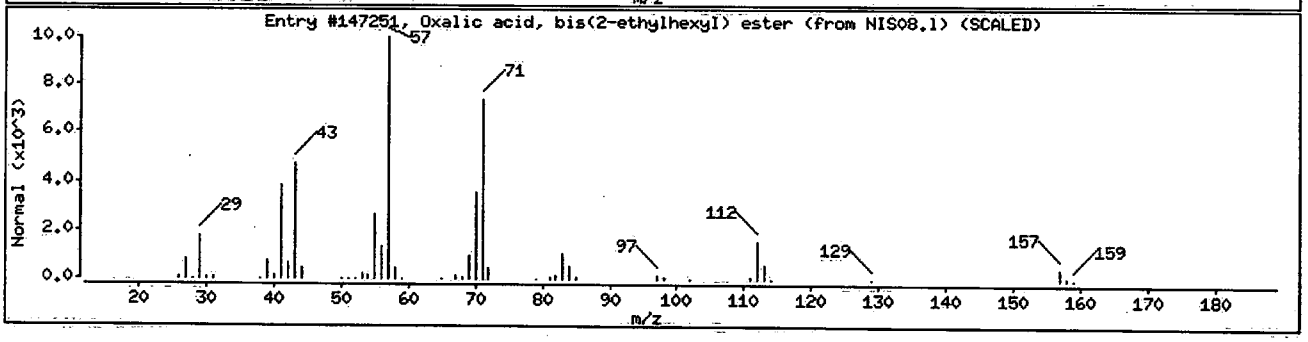
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unk. Alkane						
Nonane, 3-methyl-	5911-04-6	NIS08.l	18925	83	C10H22	142
Octane, 2,6-dimethyl-	2051-30-1	NIS08.l	18952	83	C10H22	142
Oxalic acid, bis(2-ethylhexyl) ester	1000309-39-0	NIS08.l	147251	72	C18H34O4	314









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Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-02D59.d

Date : 13-AUG-2014 23:42

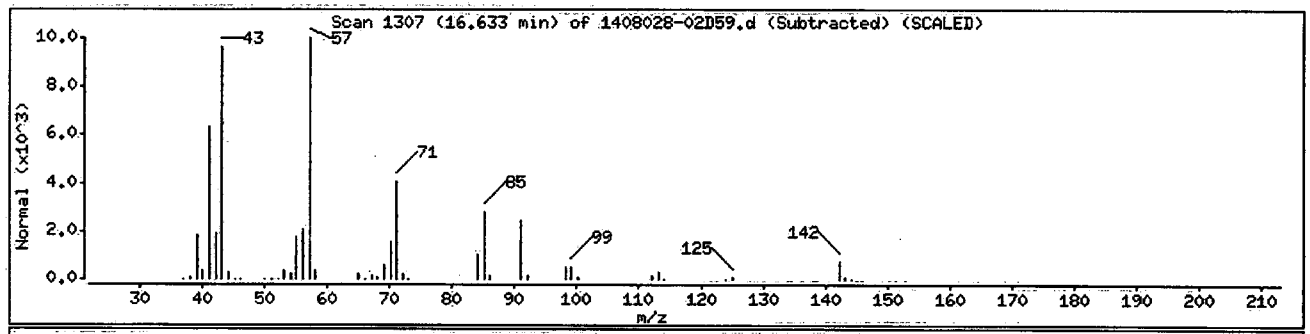
Client ID: P001-DR0502-LW-01 Instrument: 5972hp59.i

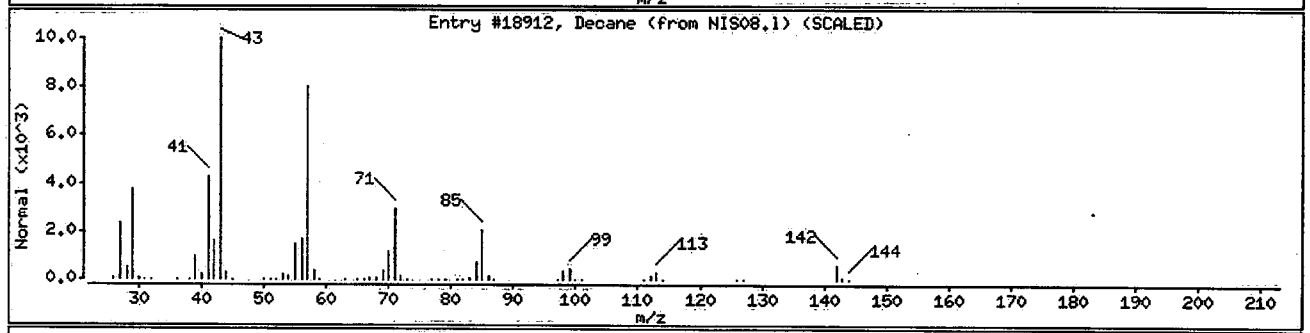
Sample Info: 1408028-02:JAO

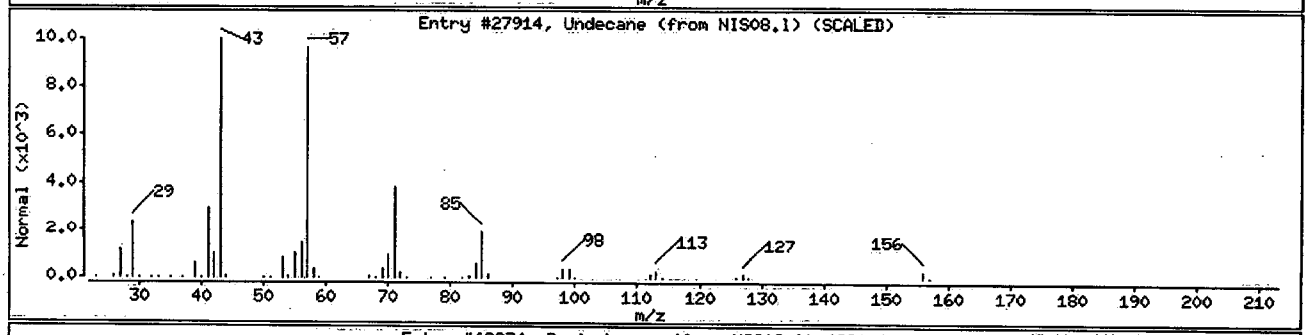
Operator: JAO

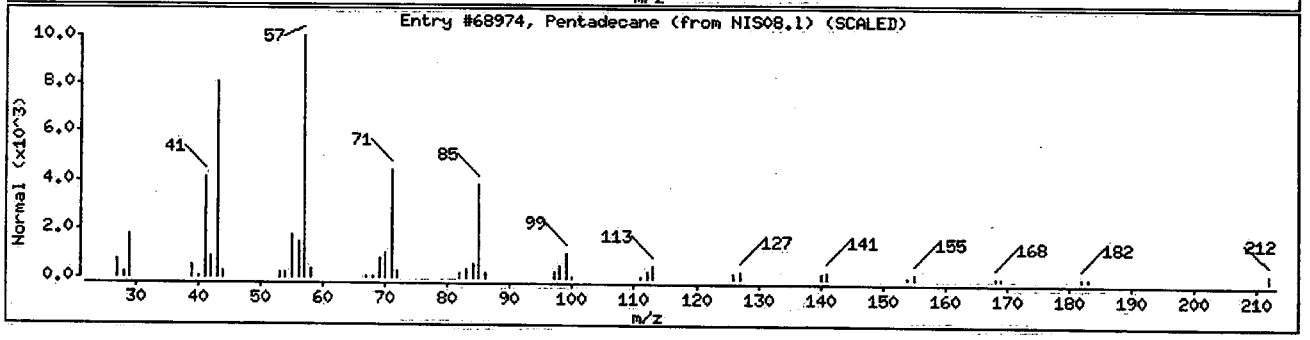
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unk. Alkane						
Decane	124-18-5	NIS08.l	18912	97	C10H22	142
Undecane	1120-21-4	NIS08.l	27914	83	C11H24	156
Pentadecane	629-62-9	NIS08.l	68974	78	C15H32	212









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Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-02D59.d

Date : 13-AUG-2014 23:42

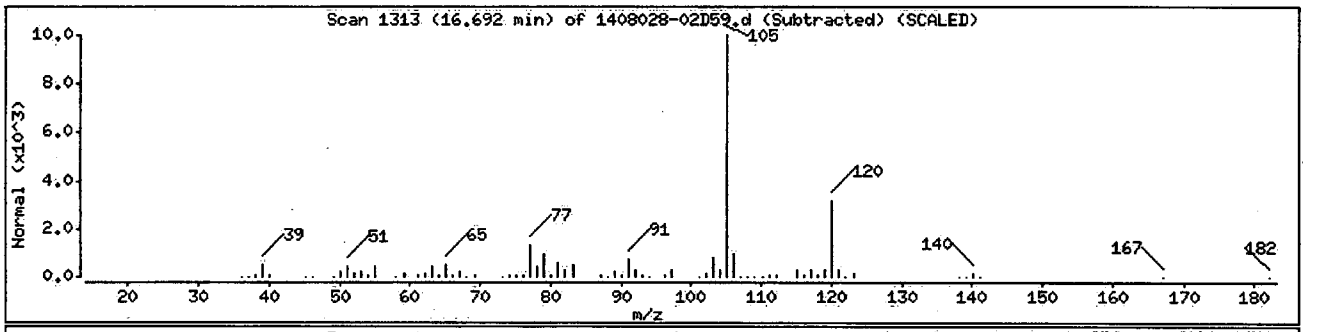
Client ID: P001-DR0502-LW-01 Instrument: 5972hp59.i

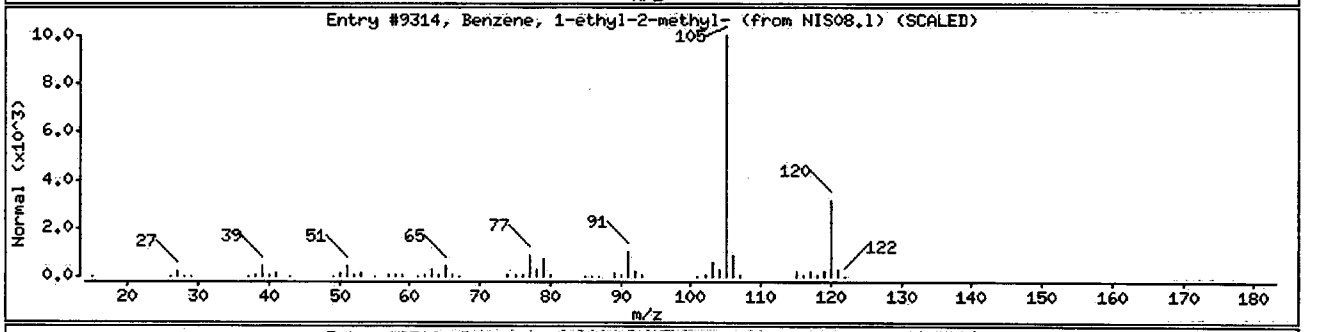
Sample Info: 1408028-02:JAO

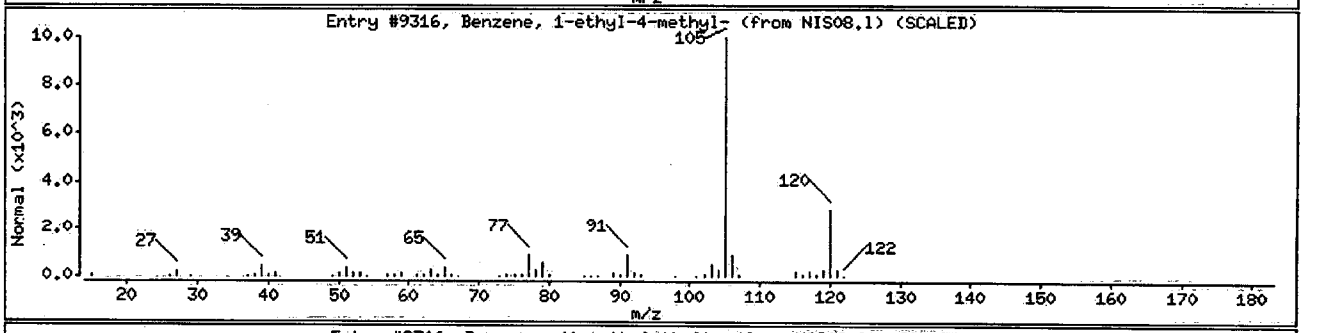
Operator: JAO

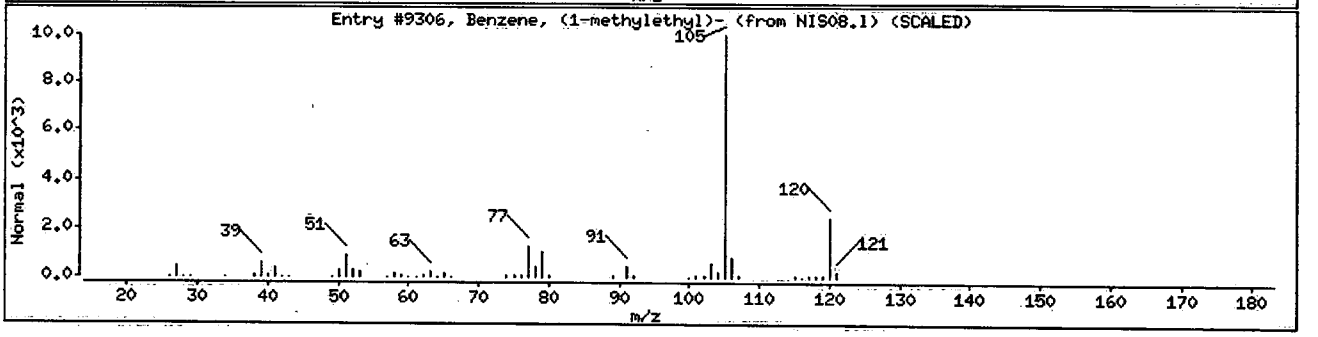
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1-ethyl-2-methyl-	611-14-3	NIS08.l	9314	94	C9H12	120
Benzene, 1-ethyl-4-methyl-	622-96-8	NIS08.l	9316	91	C9H12	120
Benzene, (1-methylethyl)-	98-82-8	NIS08.l	9306	90	C9H12	120









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Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-02D59.d

Date : 13-AUG-2014 23:42

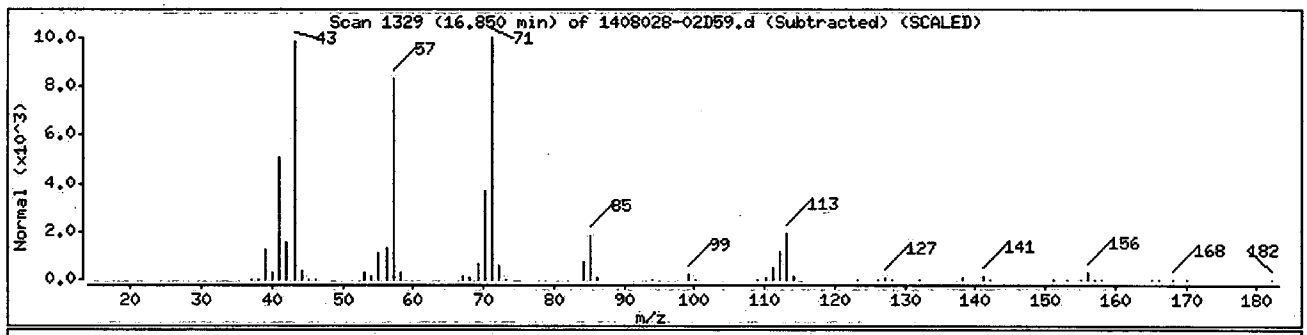
Client ID: P001-DR0502-LW-01 Instrument: 5972hp59.i

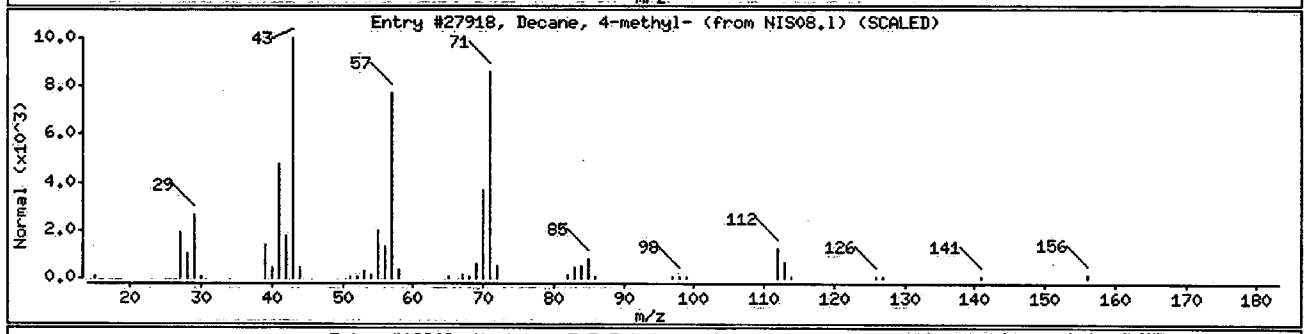
Sample Info: 1408028-02:JAO

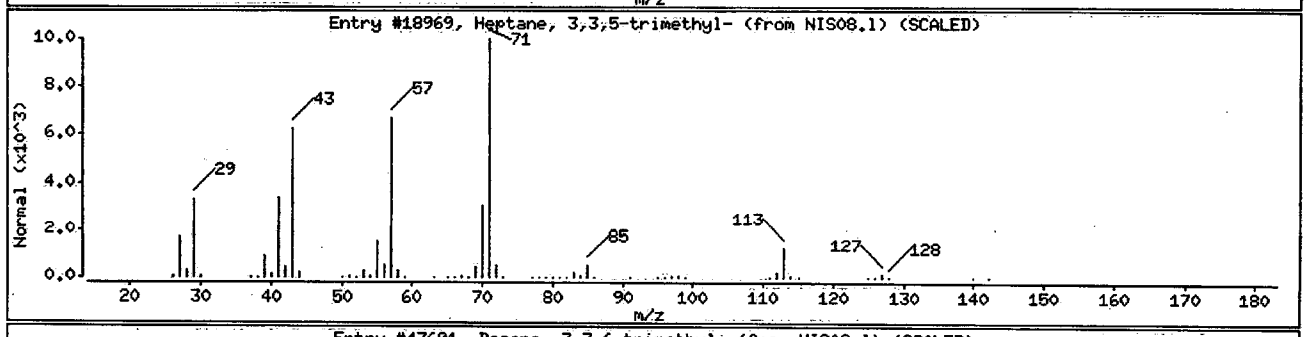
Operator: JAO

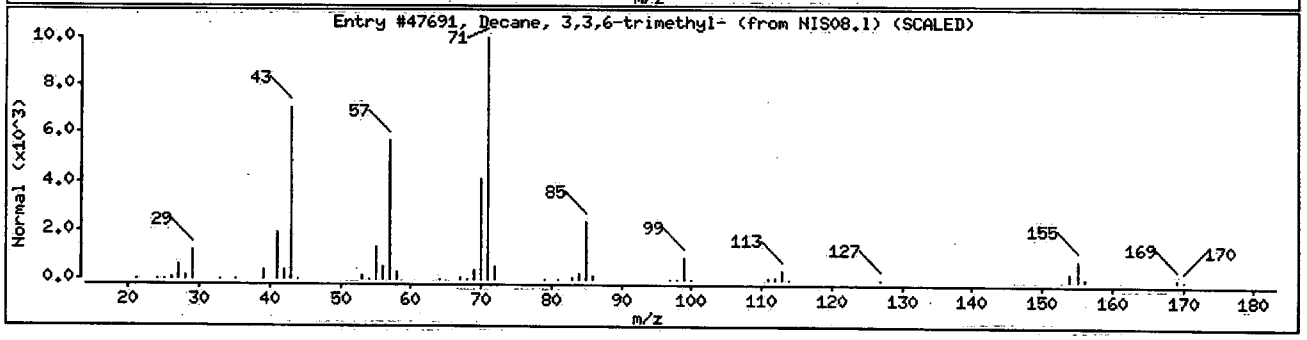
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unk. Alkane						
Decane, 4-methyl-	2847-72-5	NIS08.1	27918	78	C11H24	156
Heptane, 3,3,5-trimethyl-	7154-80-5	NIS08.1	18969	72	C10H22	142
Decane, 3,3,6-trimethyl-	62338-14-1	NIS08.1	47691	64	C13H28	184









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Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-02D59.d

Date : 13-AUG-2014 23:42

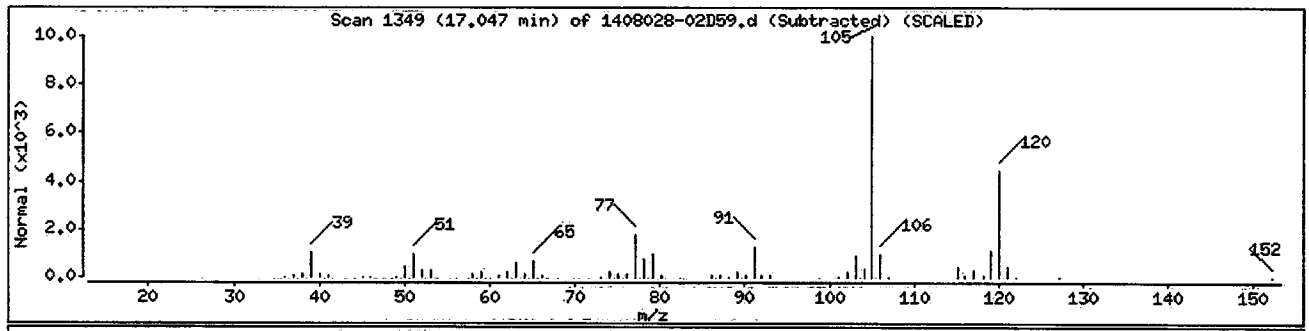
Client ID: P001-DR0502-LW-01 Instrument: 5972hp59.i

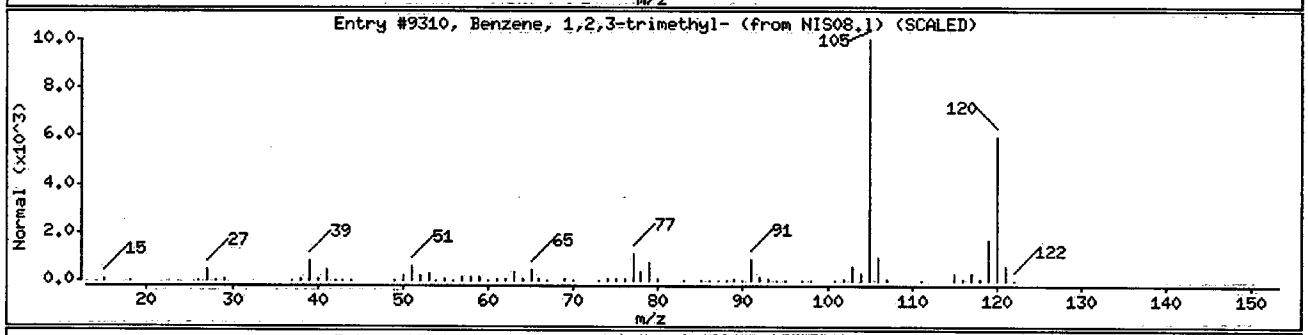
Sample Info: 1408028-02:JAO

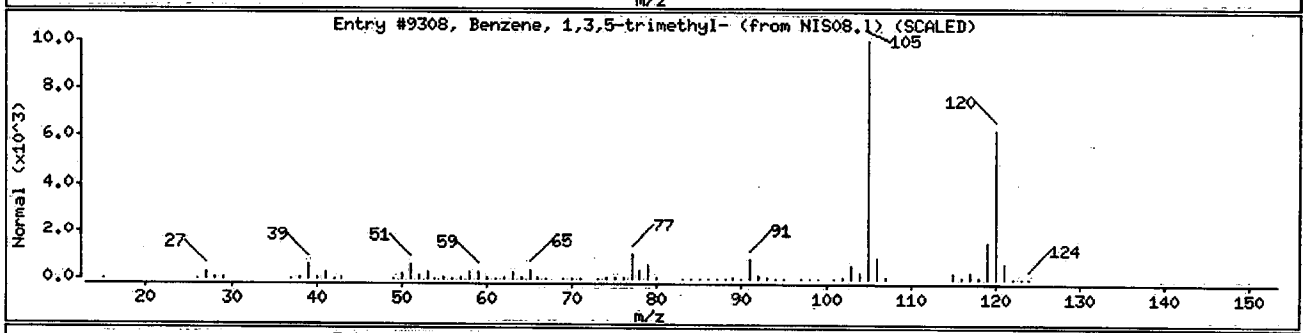
Operator: JAO

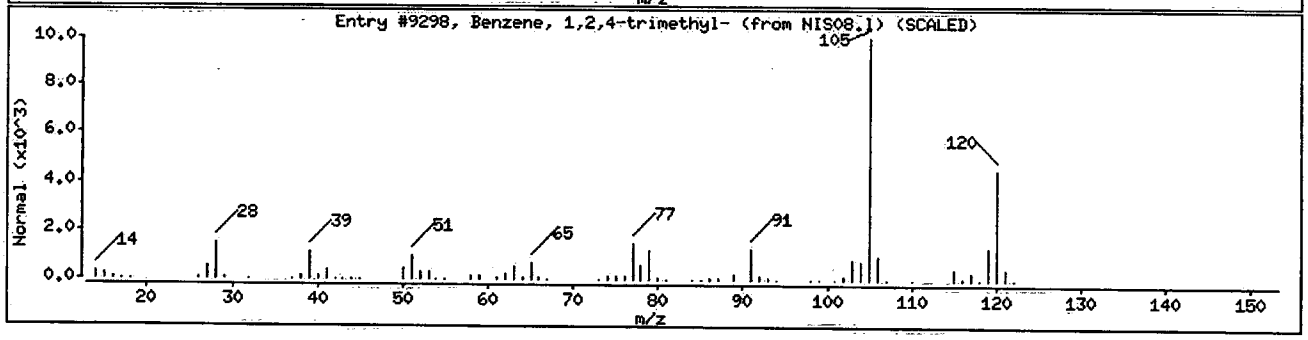
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1,2,3-trimethyl-	526-73-8	NIS08.l	9310	95	C9H12	120
Benzene, 1,3,5-trimethyl-	108-67-8	NIS08.l	9308	94	C9H12	120
Benzene, 1,2,4-trimethyl-	95-63-6	NIS08.l	9298	94	C9H12	120









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Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-02D59.d

Date : 13-AUG-2014 23:42

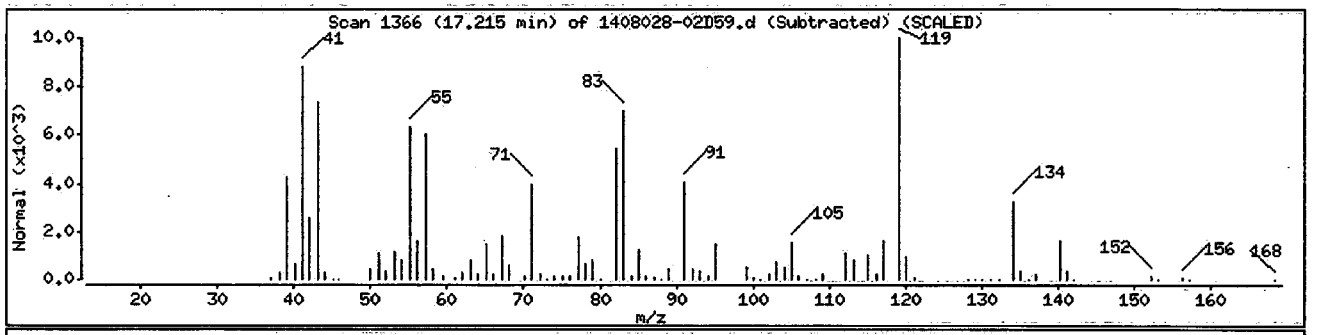
Client ID: P001-DR0502-LW-01 Instrument: 5972hp59.i

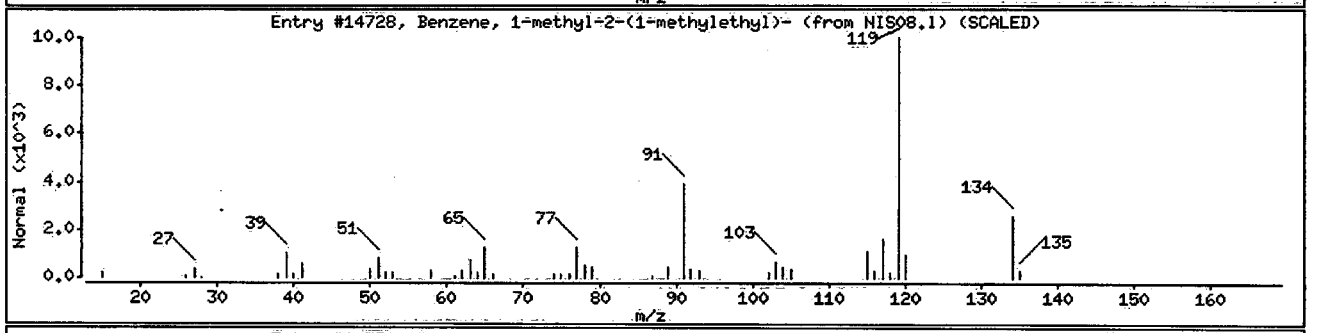
Sample Info: 1408028-02:JAO

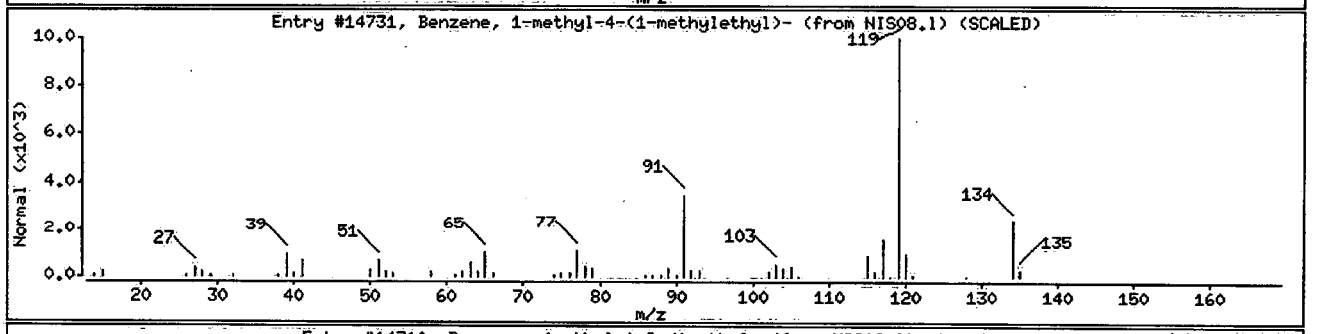
Operator: JAO

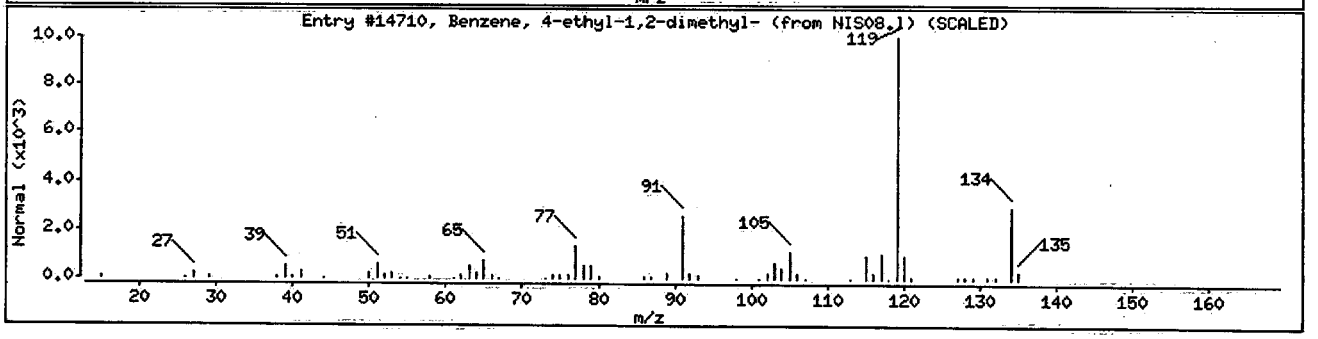
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1-methyl-2-(1-methylethyl)-	527-84-4	NIS08.l	14728	89	C10H14	134
Benzene, 1-methyl-4-(1-methylethyl)-	99-87-6	NIS08.l	14731	86	C10H14	134
Benzene, 4-ethyl-1,2-dimethyl-	934-80-5	NIS08.l	14710	83	C10H14	134









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Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-02D59.d

Date : 13-AUG-2014 23:42

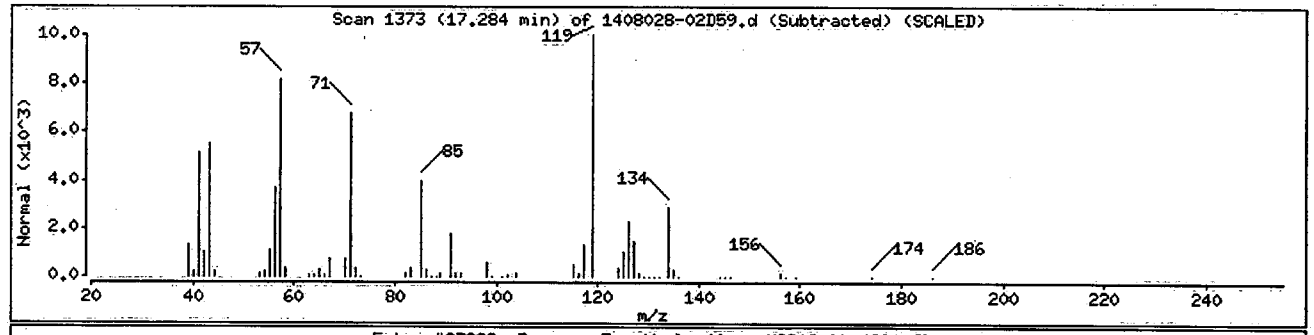
Client ID: P001-DR0502-LW-01 Instrument: 5972hp59.i

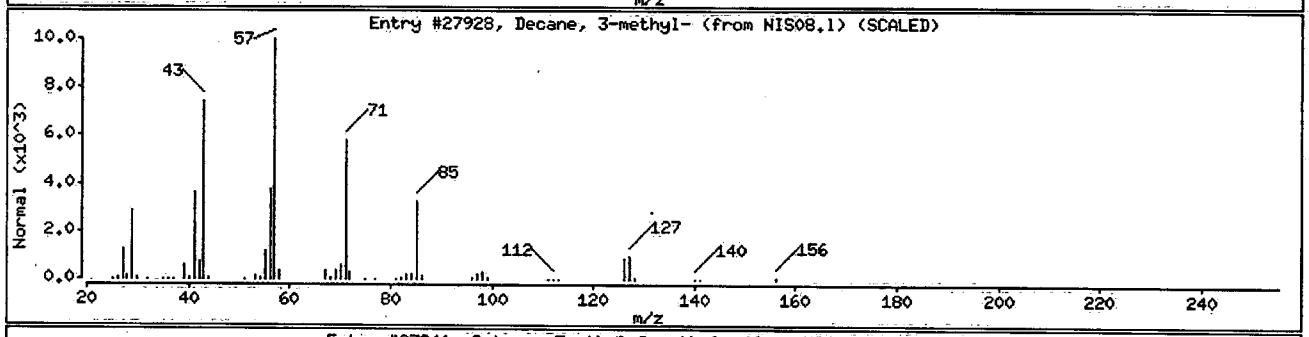
Sample Info: 1408028-02:JAO

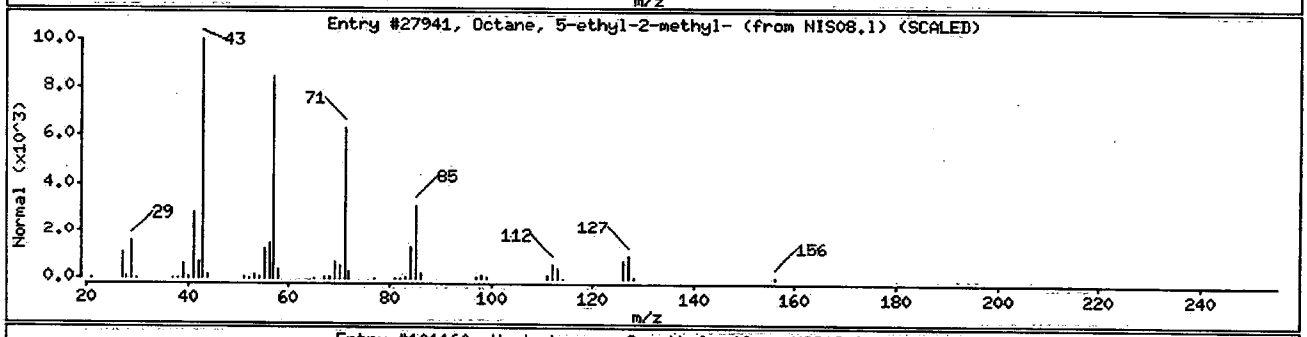
Operator: JAO

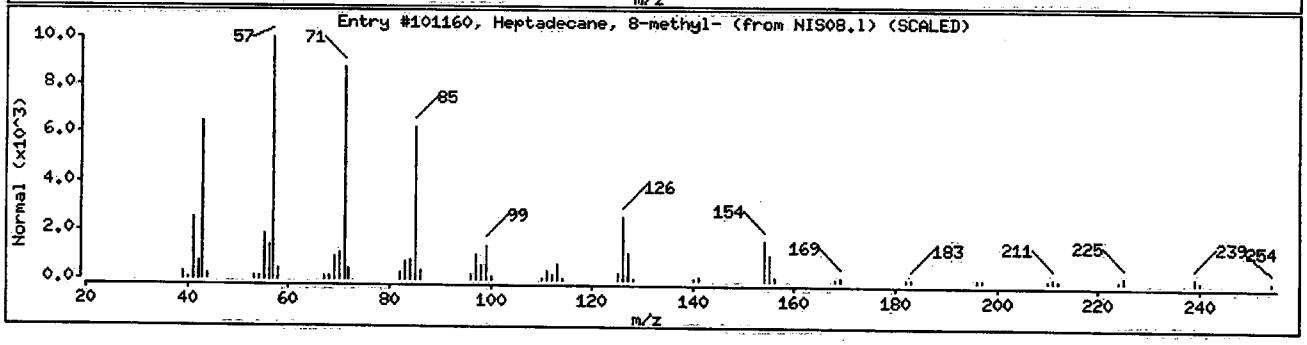
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Decane, 3-methyl-	13151-34-3	NIS08.l	27928	50	C11H24	156
Octane, 5-ethyl-2-methyl-	62016-18-6	NIS08.l	27941	35	C11H24	156
Heptadecane, 8-methyl-	13287-23-5	NIS08.l	101160	35	C18H38	254









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Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-02D59.d

Date : 13-AUG-2014 23:42

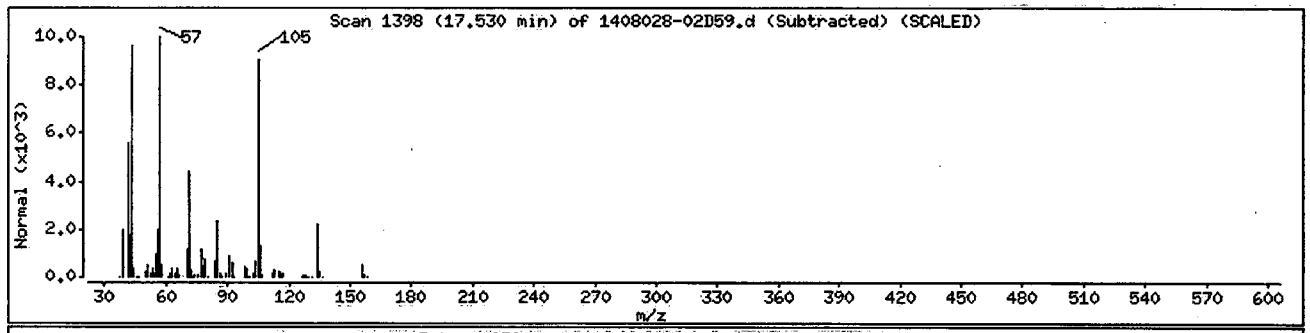
Client ID: P001-DR0502-LW-01 Instrument: 5972hp59.i

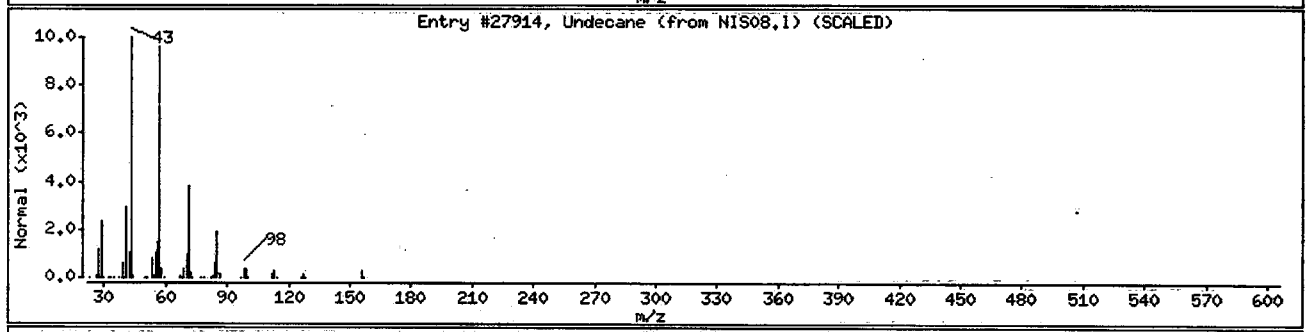
Sample Info: 1408028-02:JAO

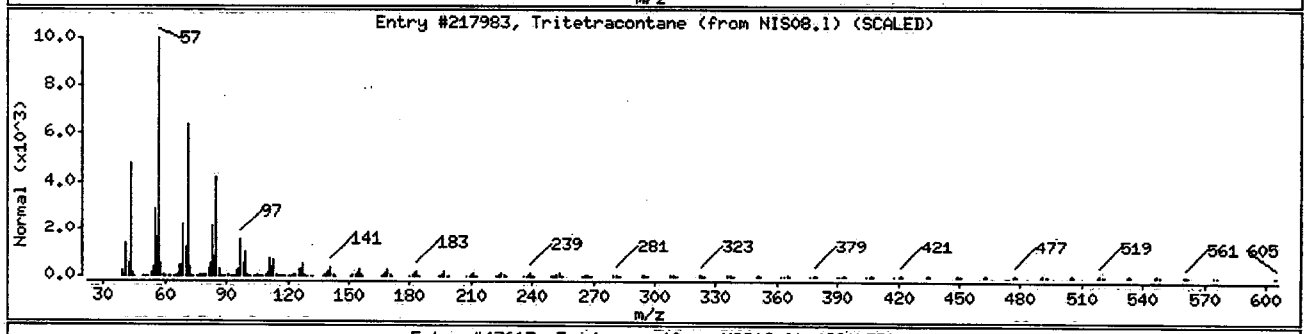
Operator: JAO

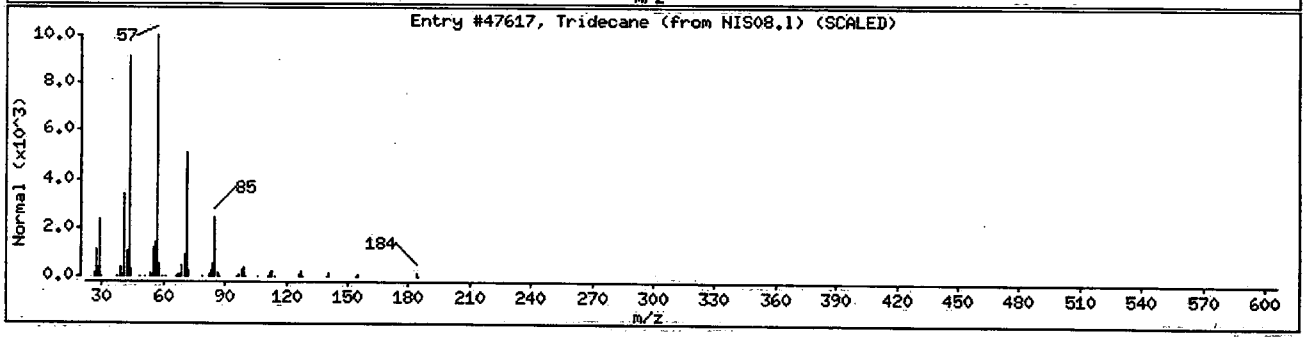
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unk. Alkane						
Undecane	1120-21-4	NIS08.l	27914	64	C11H24	156
Tritetracontane	7098-21-7	NIS08.l	217983	47	C43H88	605
Tridecane	629-50-5	NIS08.l	47617	43	C13H28	184









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Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-02D59.d

Date : 13-AUG-2014 23:42

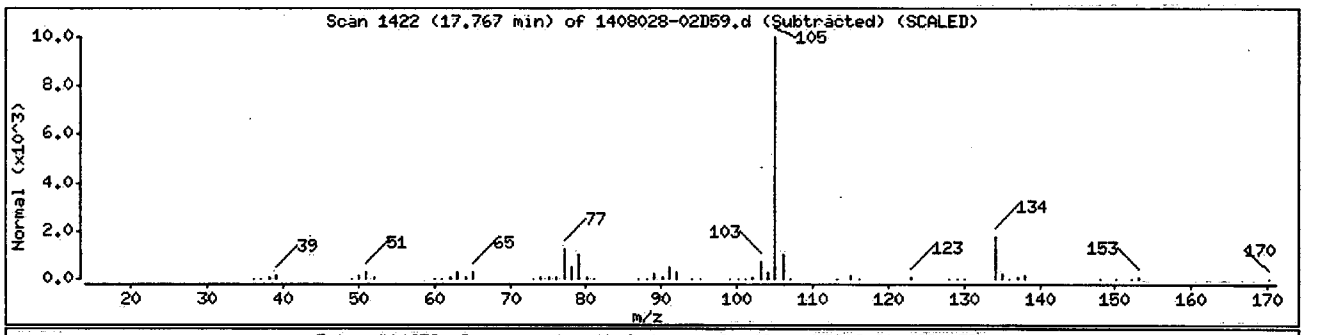
Client ID: P001-DR0502-LW-01 Instrument: 5972hp59.i

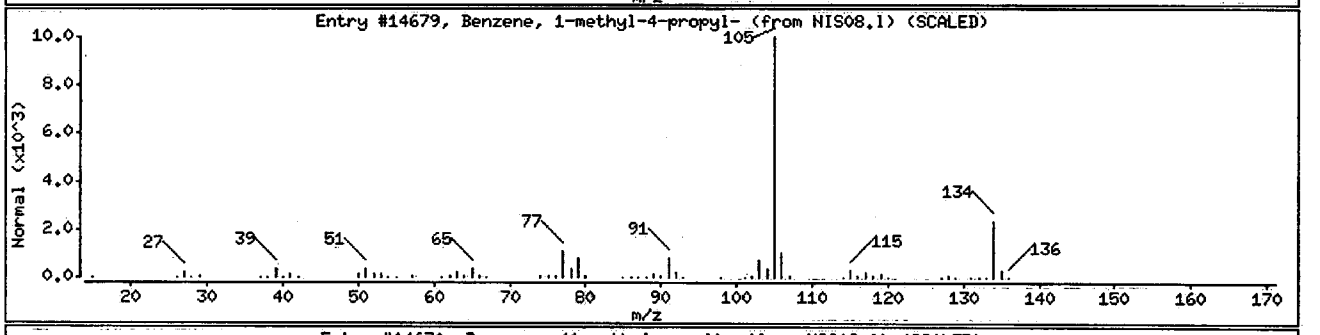
Sample Info: 1408028-02:JAO

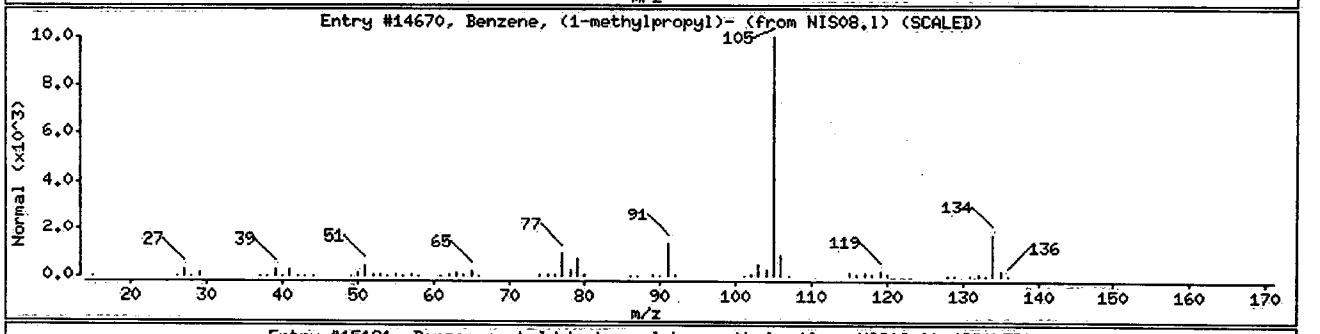
Operator: JAO

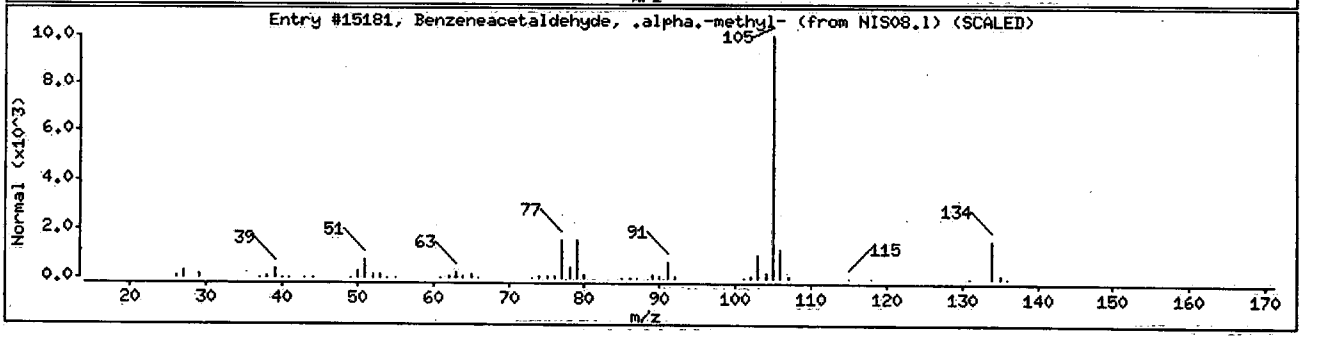
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1-methyl-4-propyl-	1074-55-1	NIS08.l	14679	91	C10H14	134
Benzene, (1-methylpropyl)-	135-98-8	NIS08.l	14670	87	C10H14	134
Benzeneacetaldehyde, .alpha.-methyl-	93-53-8	NIS08.l	15181	87	C9H10O	134









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Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-02D59.d

Date : 13-AUG-2014 23:42

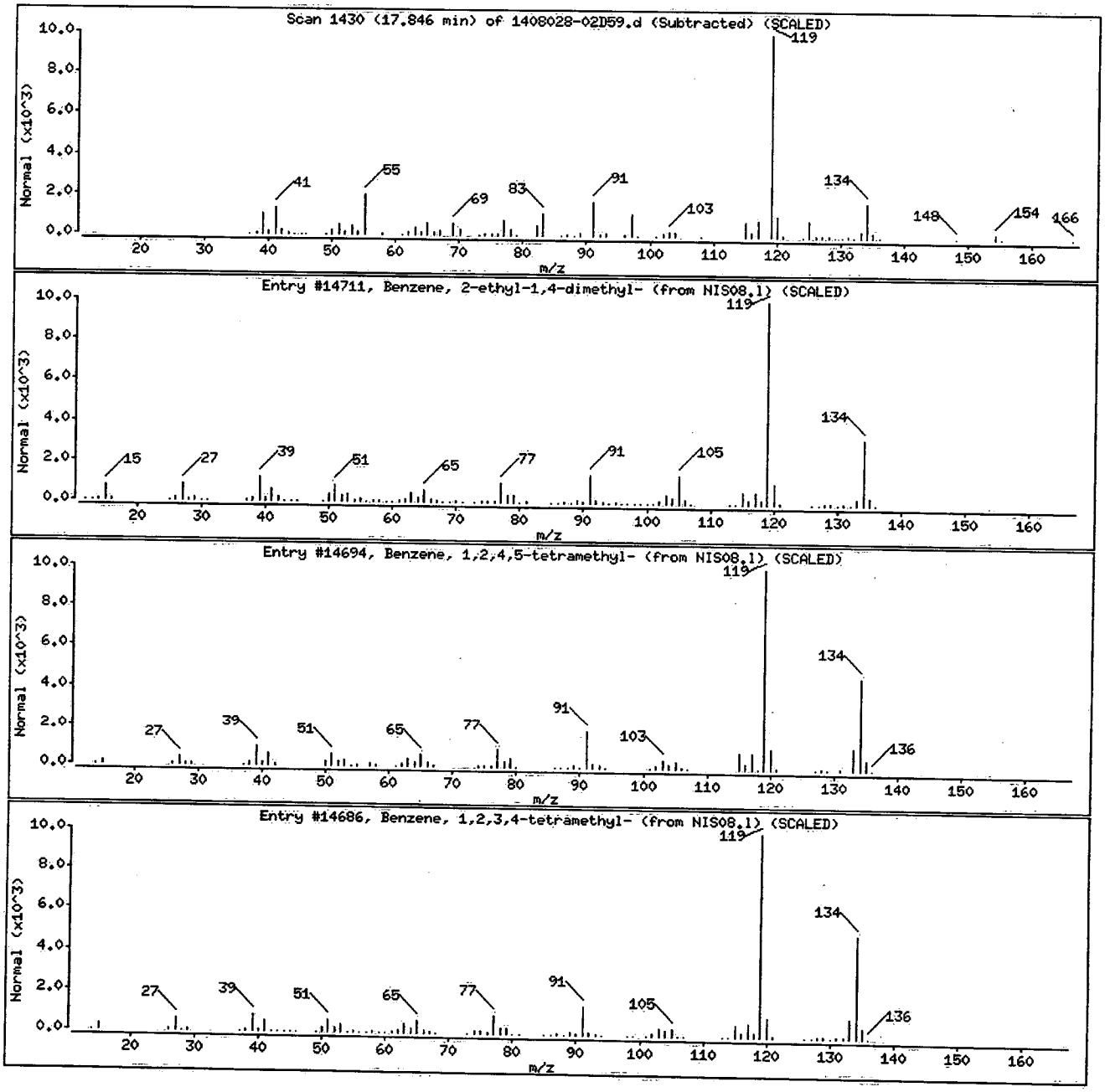
Client ID: P001-DR0502-LW-01 Instrument: 5972hp59.i

Sample Info: 1408028-02:JAO

Operator: JAO

Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Benzene, 2-ethyl-1,4-dimethyl-	1758-88-9	NIS08.l	14711	74	C10H14	134
Benzene, 1,2,4,5-tetramethyl-	95-93-2	NIS08.l	14694	74	C10H14	134
Benzene, 1,2,3,4-tetramethyl-	488-23-3	NIS08.l	14686	74	C10H14	134



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Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-02D59.d

Date : 13-AUG-2014 23:42

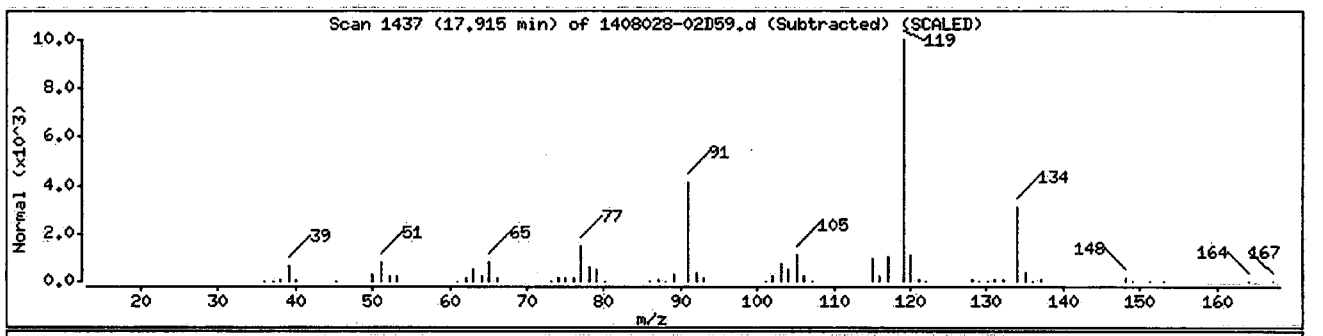
Client ID: P001-DR0502-LW-01 Instrument: 5972hp59.i

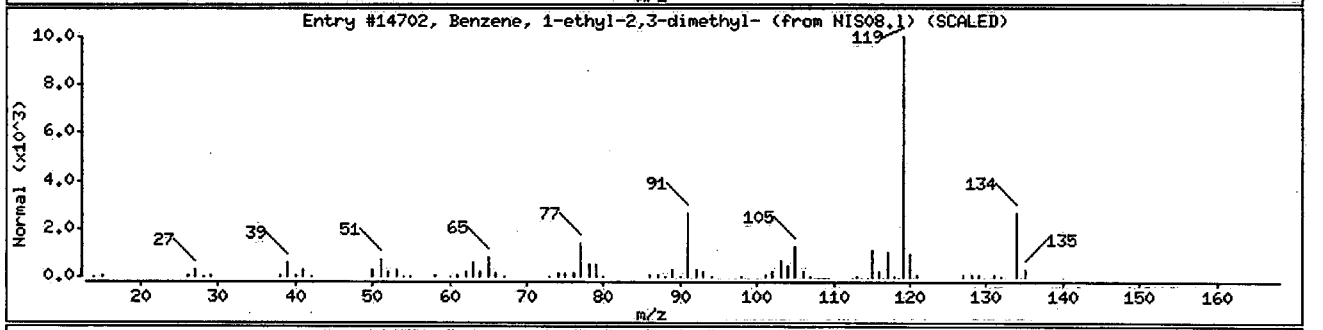
Sample Info: 1408028-02:JAO

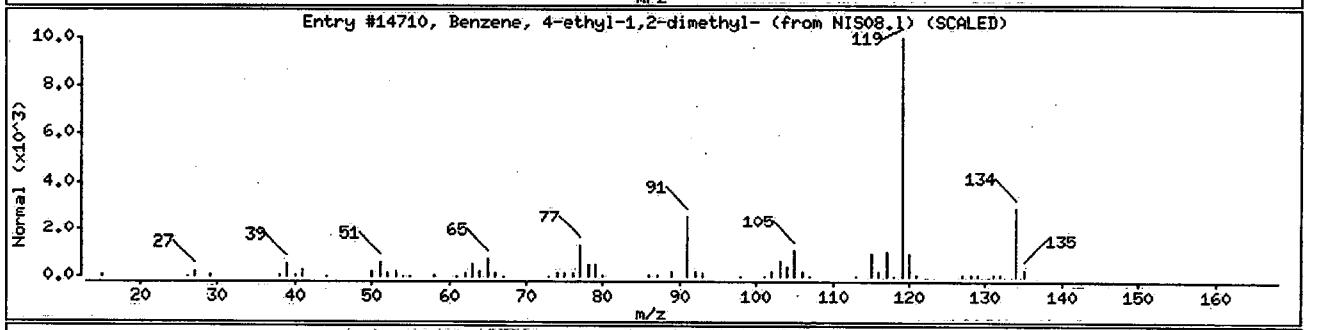
Operator: JAO

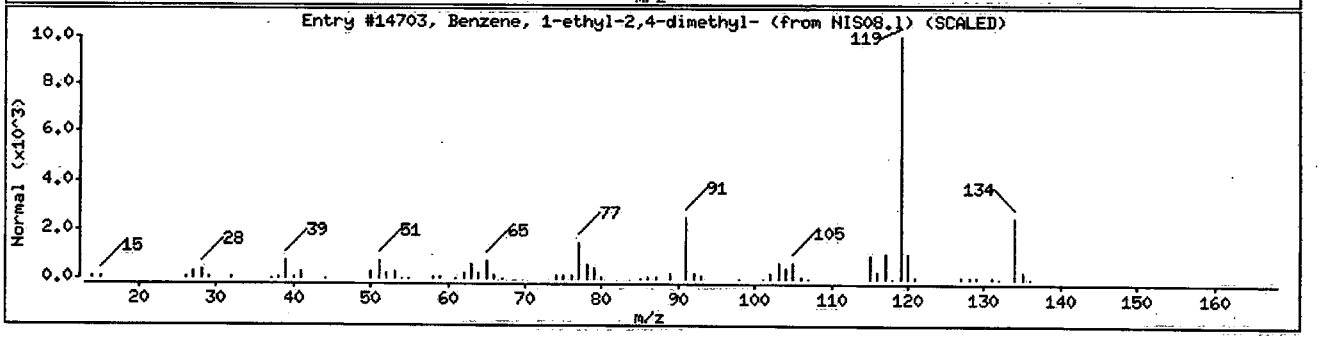
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1-ethyl-2,3-dimethyl-	933-98-2	NIS08.l	14702	97	C10H14	134
Benzene, 4-ethyl-1,2-dimethyl-	934-80-5	NIS08.l	14710	97	C10H14	134
Benzene, 1-ethyl-2,4-dimethyl-	874-41-9	NIS08.l	14703	95	C10H14	134









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Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-02D59.d

Date : 13-AUG-2014 23:42

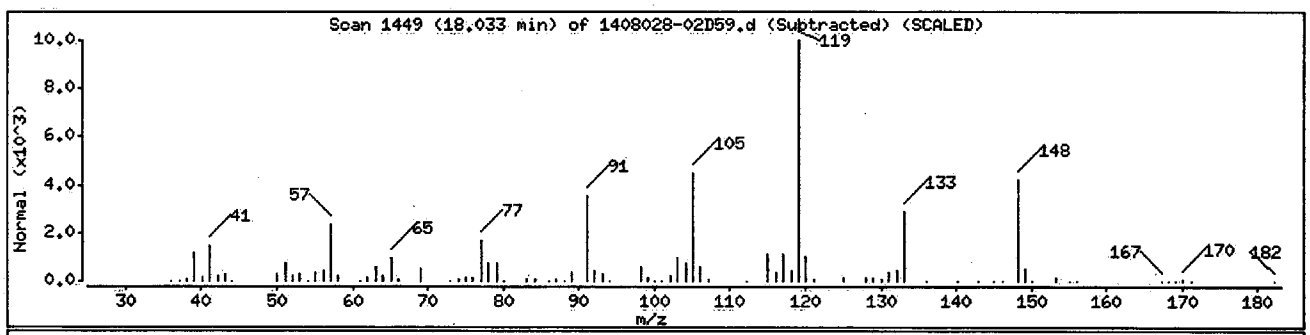
Client ID: P001-DR0502-LW-01 Instrument: 5972hp59.i

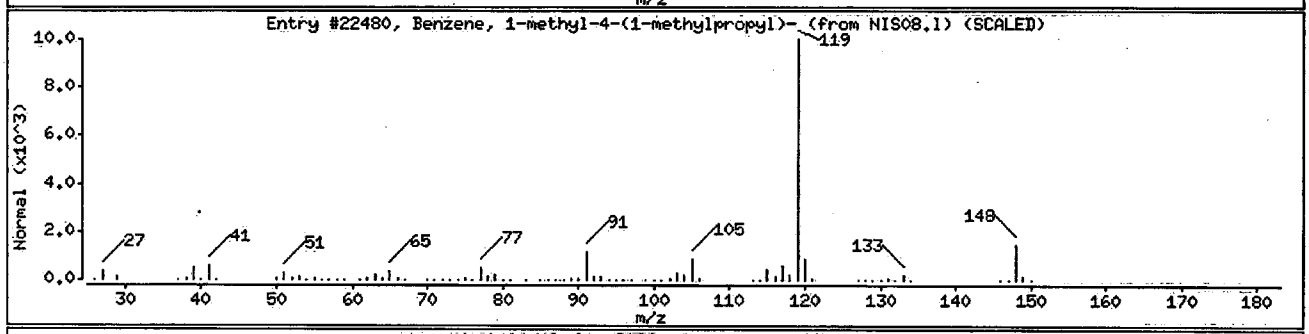
Sample Info: 1408028-02:JAO

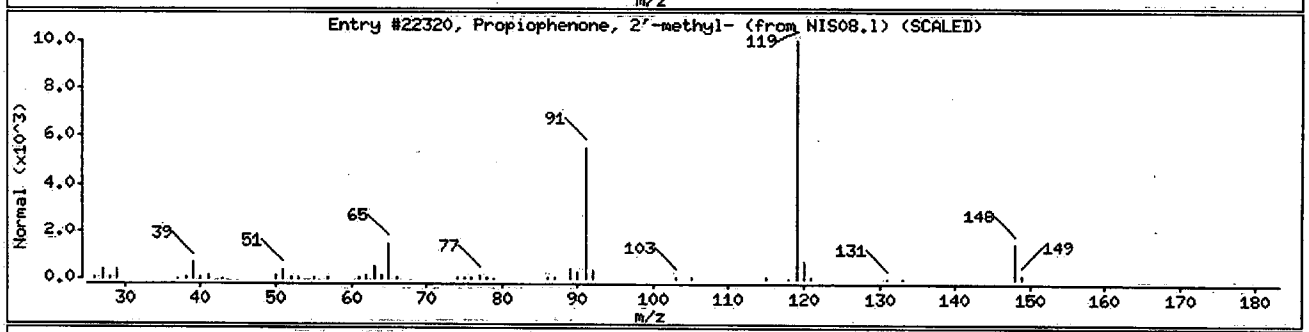
Operator: JAO

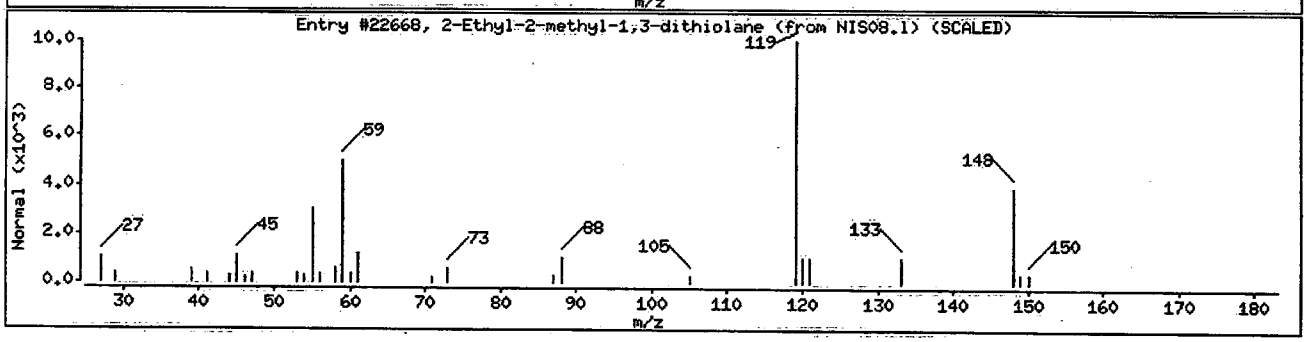
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1-methyl-4-(1-methylpropyl)-	1595-16-0	NIS08.l	22480	87	C11H16	148
Propiophenone, 2'-methyl-	2040-14-4	NIS08.l	22320	70	C10H12O	148
2-Ethyl-2-methyl-1,3-dithiolane	6008-81-7	NIS08.l	22668	64	C6H12S2	148









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Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-02D59.d

Date : 13-AUG-2014 23:42

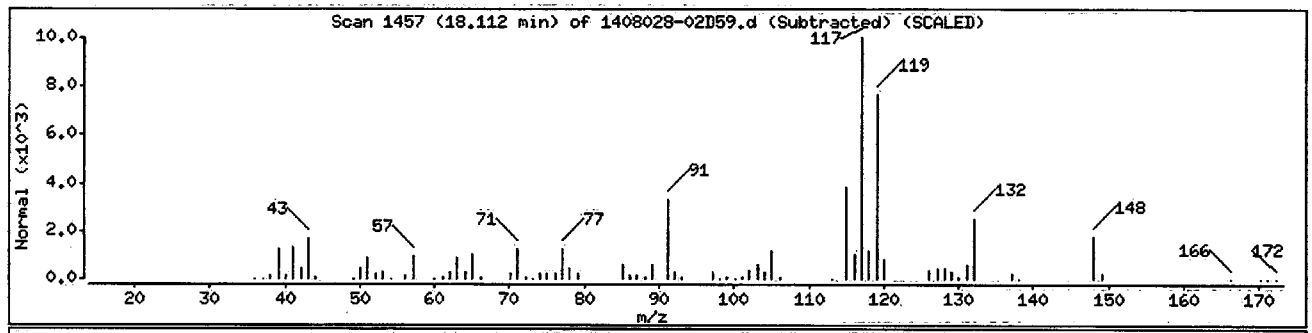
Client ID: P001-DR0502-LW-01 Instrument: 5972hp59.i

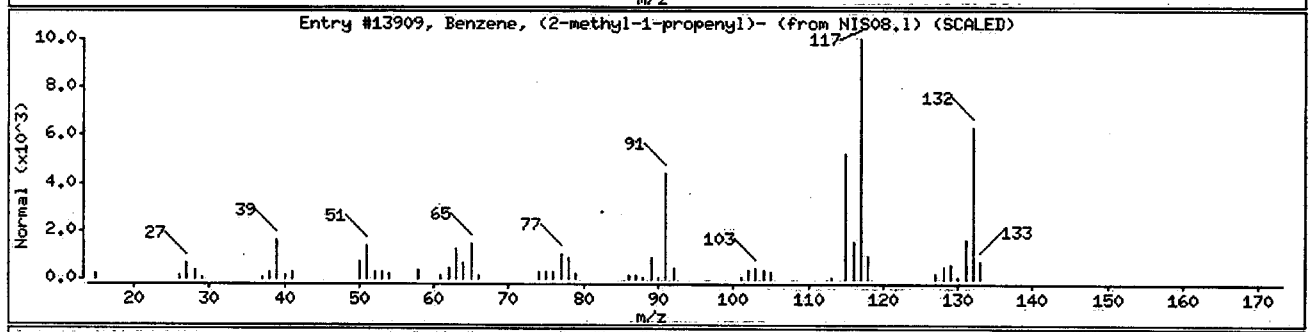
Sample Info: 1408028-02:JAO

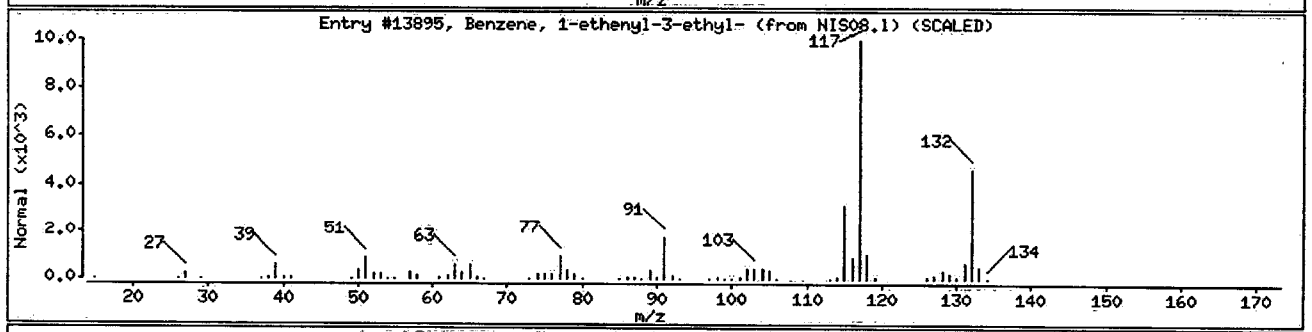
Operator: JAO

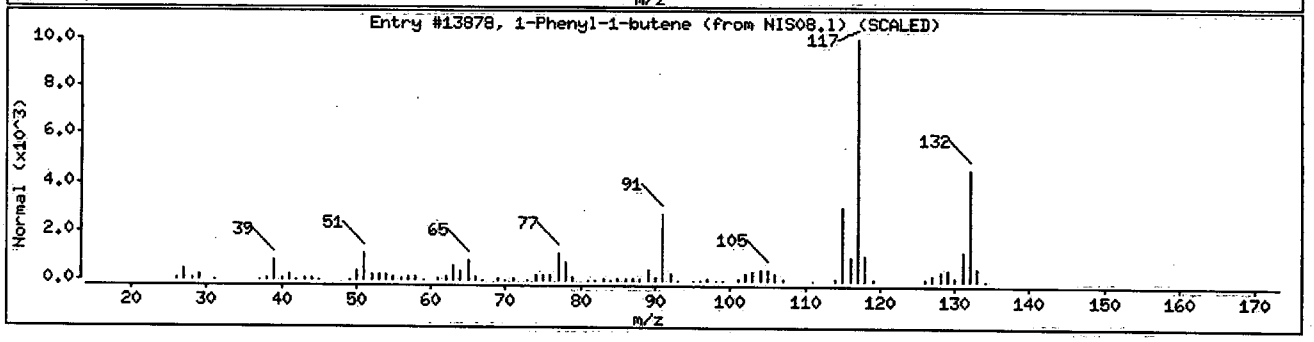
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Benzene, (2-methyl-1-propenyl)-	768-49-0	NIS08.l	13909	83	C10H12	132
Benzene, 1-ethenyl-3-ethyl-	7525-62-4	NIS08.l	13895	60	C10H12	132
1-Phenyl-1-butene	824-90-8	NIS08.l	13878	60	C10H12	132









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Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-02D59.d

Date : 13-AUG-2014 23:42

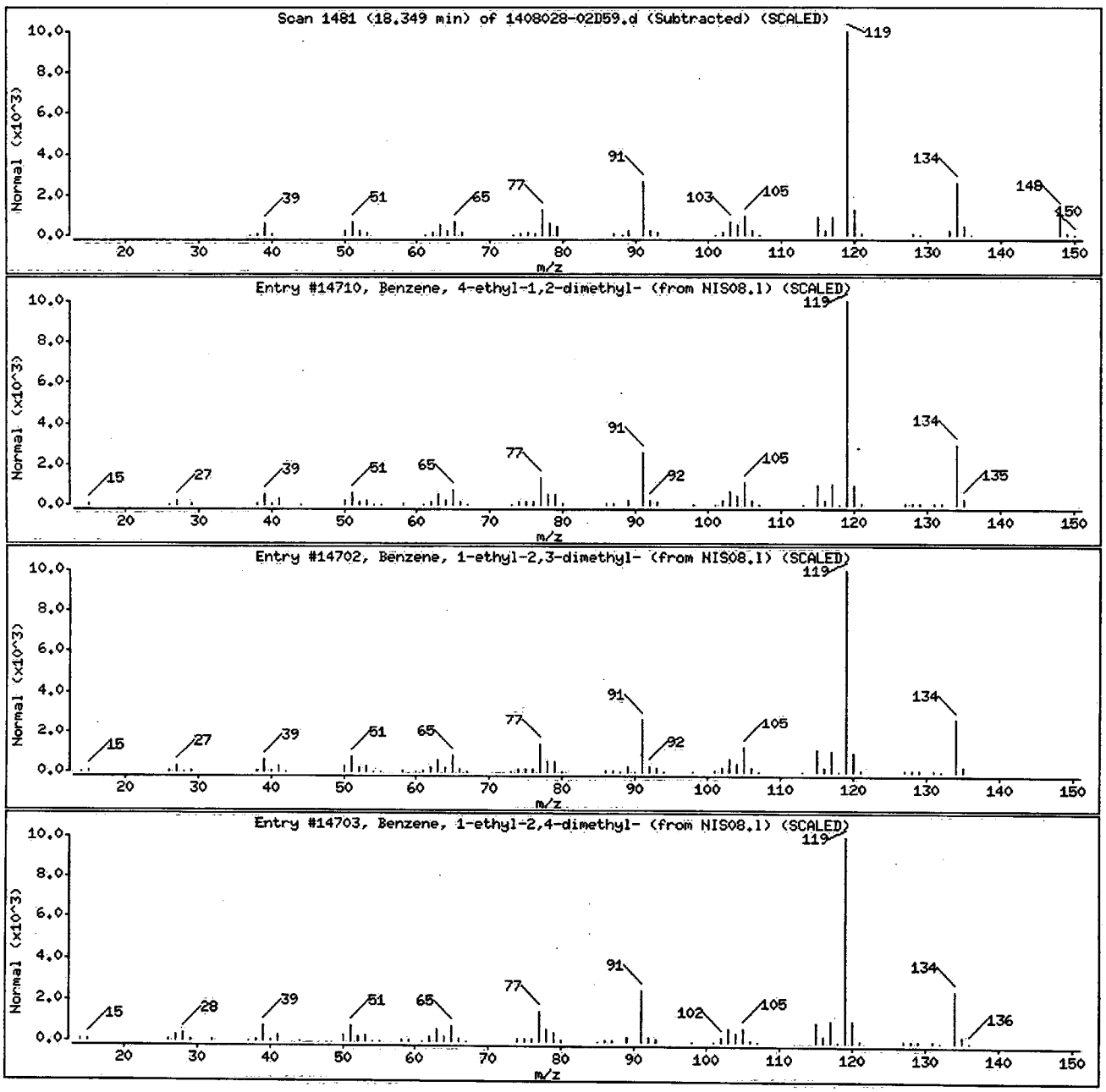
Client ID: P001-DR0502-LW-01 Instrument: 5972hp59.i

Sample Info: 1408028-02:JAO

Operator: JAO

Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 4-ethyl-1,2-dimethyl-	934-80-5	NIS08.l	14710	96	C10H14	134
Benzene, 1-ethyl-2,3-dimethyl-	933-98-2	NIS08.l	14702	95	C10H14	134
Benzene, 1-ethyl-2,4-dimethyl-	874-41-9	NIS08.l	14703	94	C10H14	134



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Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-02D59.d

Date : 13-AUG-2014 23:42

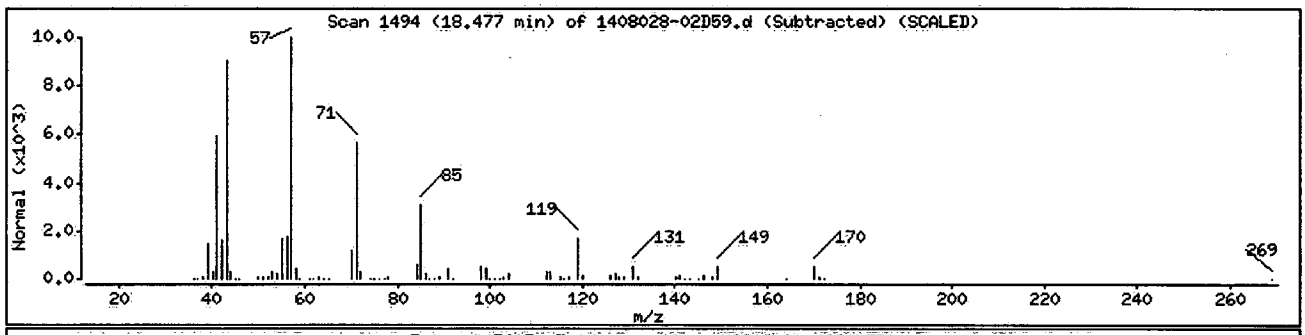
Client ID: P001-DR0502-LW-01 Instrument: 5972hp59.i

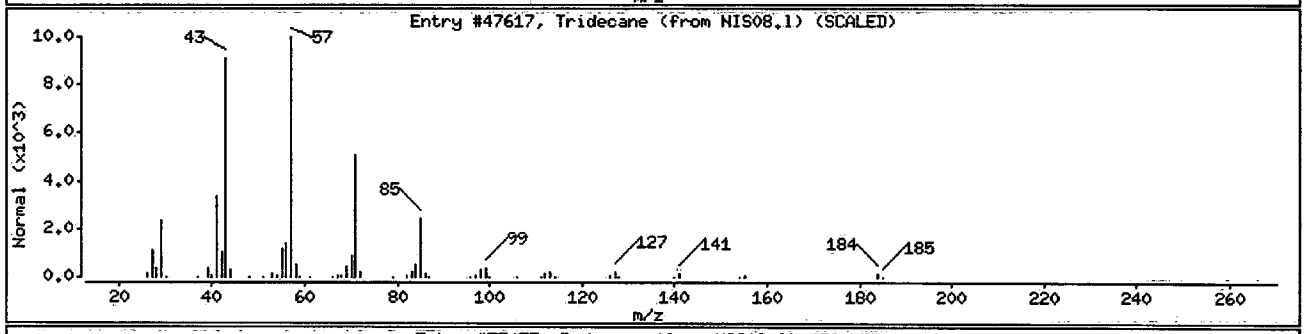
Sample Info: 1408028-02:JAO

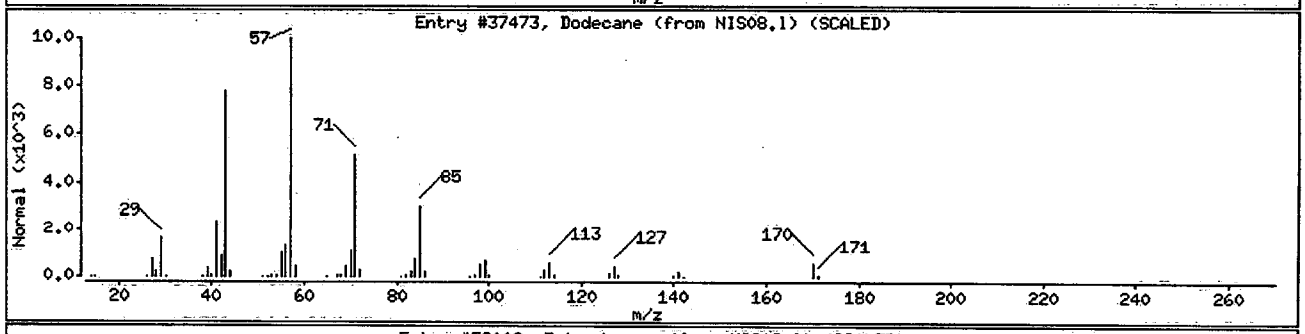
Operator: JAO

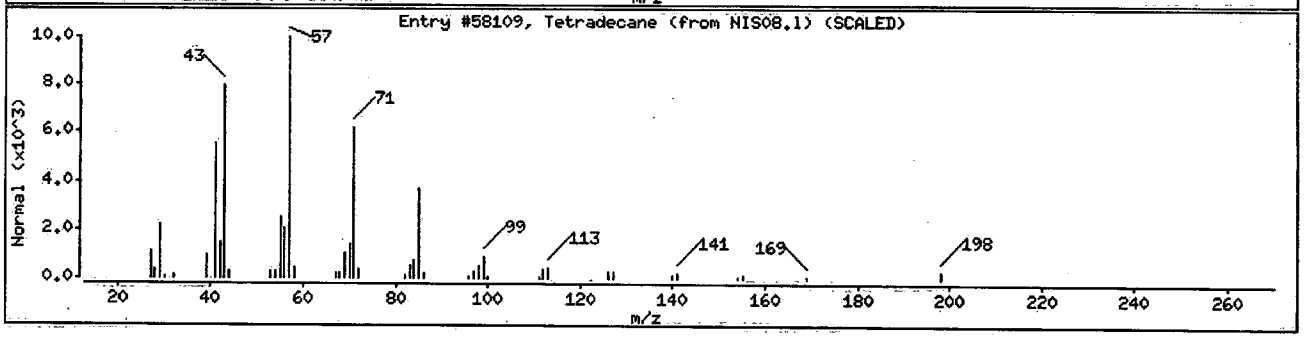
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unk. Alkane						
Tridecane	629-50-5	NIS08.1	47617	72	C13H28	184
Dodecane	112-40-3	NIS08.1	37473	72	C12H26	170
Tetradecane	629-59-4	NIS08.1	58109	72	C14H30	198









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Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-02D59.d

Date : 13-AUG-2014 23:42

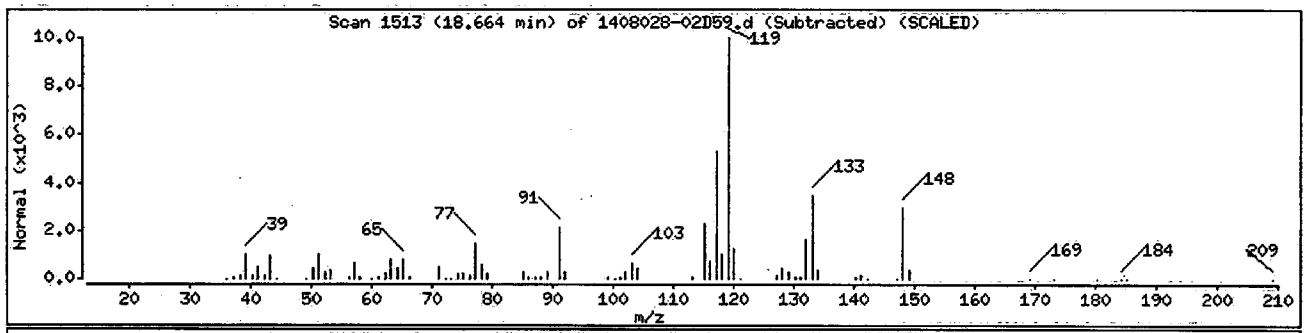
Client ID: P001-DR0502-LW-01 Instrument: 5972hp59.i

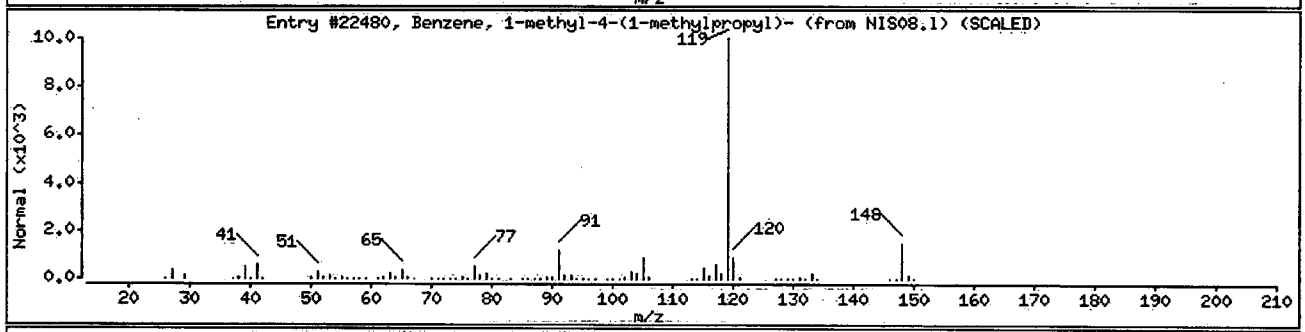
Sample Info: 1408028-02:JAO

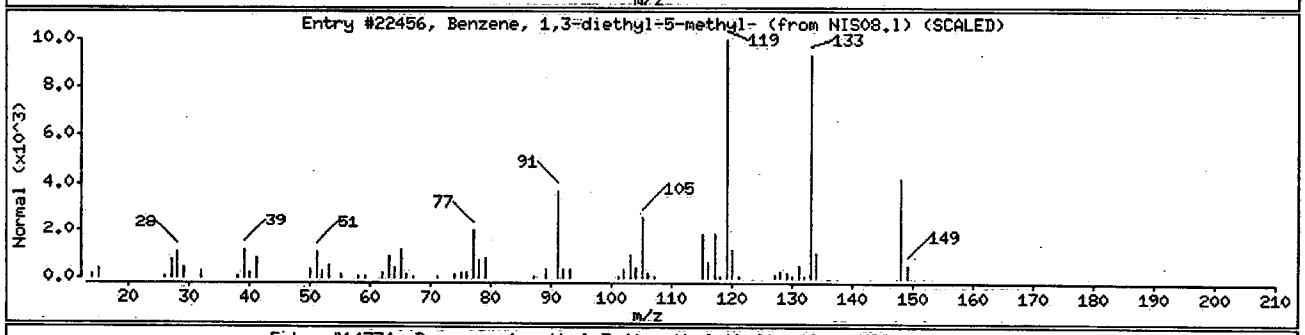
Operator: JAO

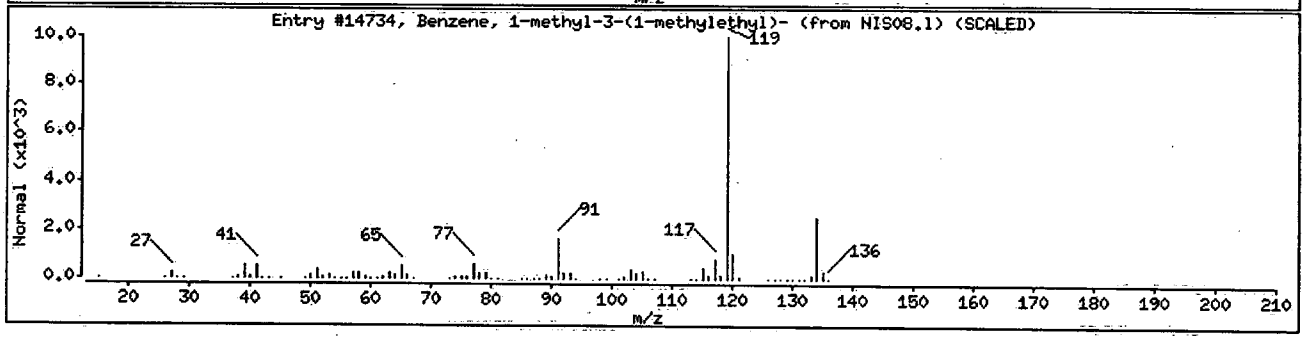
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Benzene, 1-methyl-4-(1-methylpropyl)-	1595-16-0	NIS08.1	22480	53	C11H16	148
Benzene, 1,3-diethyl-5-methyl-	2050-24-0	NIS08.1	22456	49	C11H16	148
Benzene, 1-methyl-3-(1-methylethyl)-	535-77-3	NIS08.1	14734	38	C10H14	134









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Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-02D59.d

Date : 13-AUG-2014 23:42

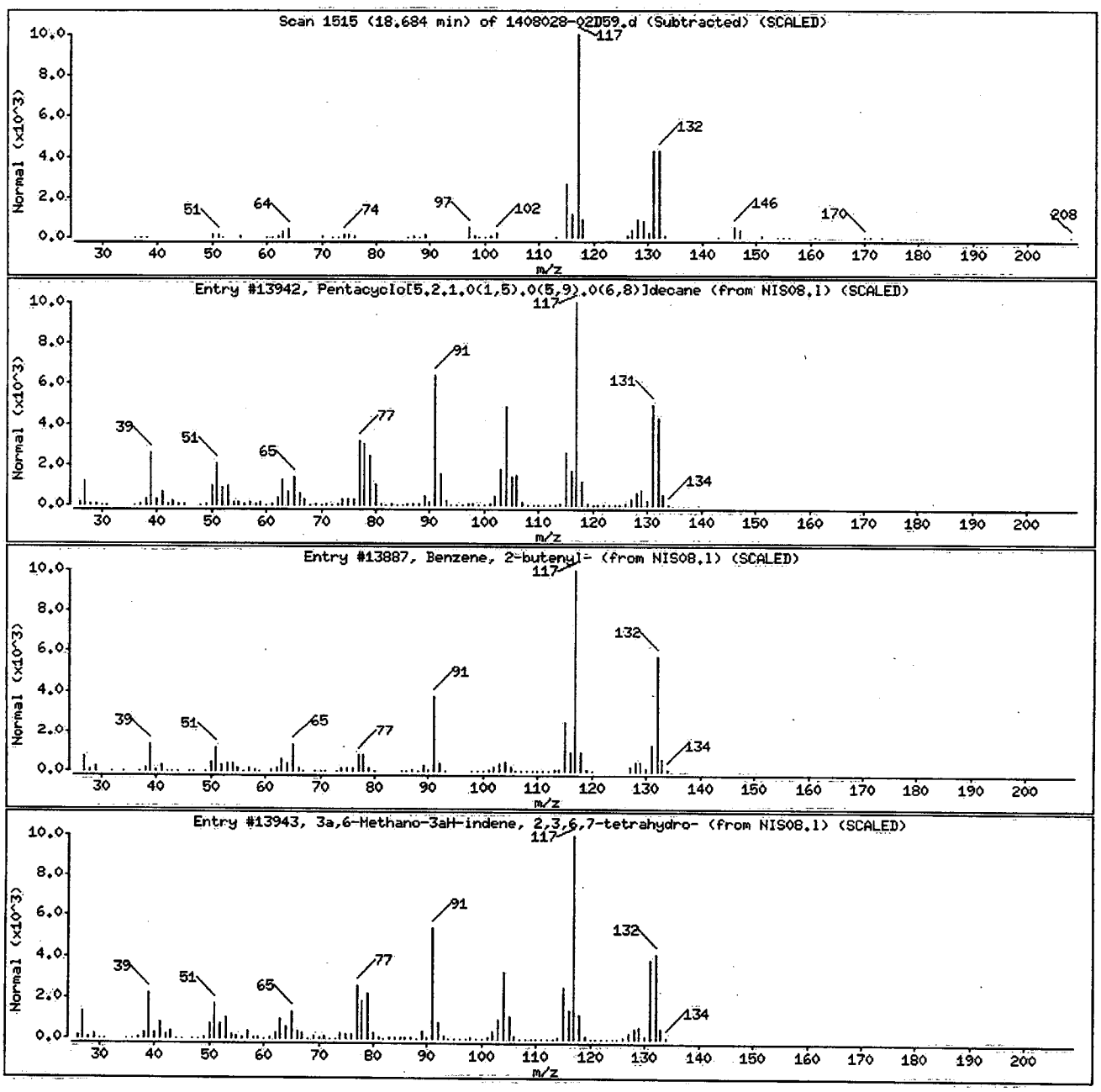
Client ID: P001-DR0502-LW-01 Instrument: 5972hp59.i

Sample Info: 1408028-02:JAO

Operator: JAO

Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Pentacyclo[5.2.1.0(1,5).0(5,9).0(6,8)]de	1000185-59-0	NIS08.l	13942	86	C10H12	132
Benzene, 2-butenyl-	1560-06-1	NIS08.l	13887	72	C10H12	132
3a,6-Methano-3aH-indene, 2,3,6,7-tetrahy	98640-29-0	NIS08.l	13943	72	C10H12	132



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Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-02D59.d

Date : 13-AUG-2014 23:42

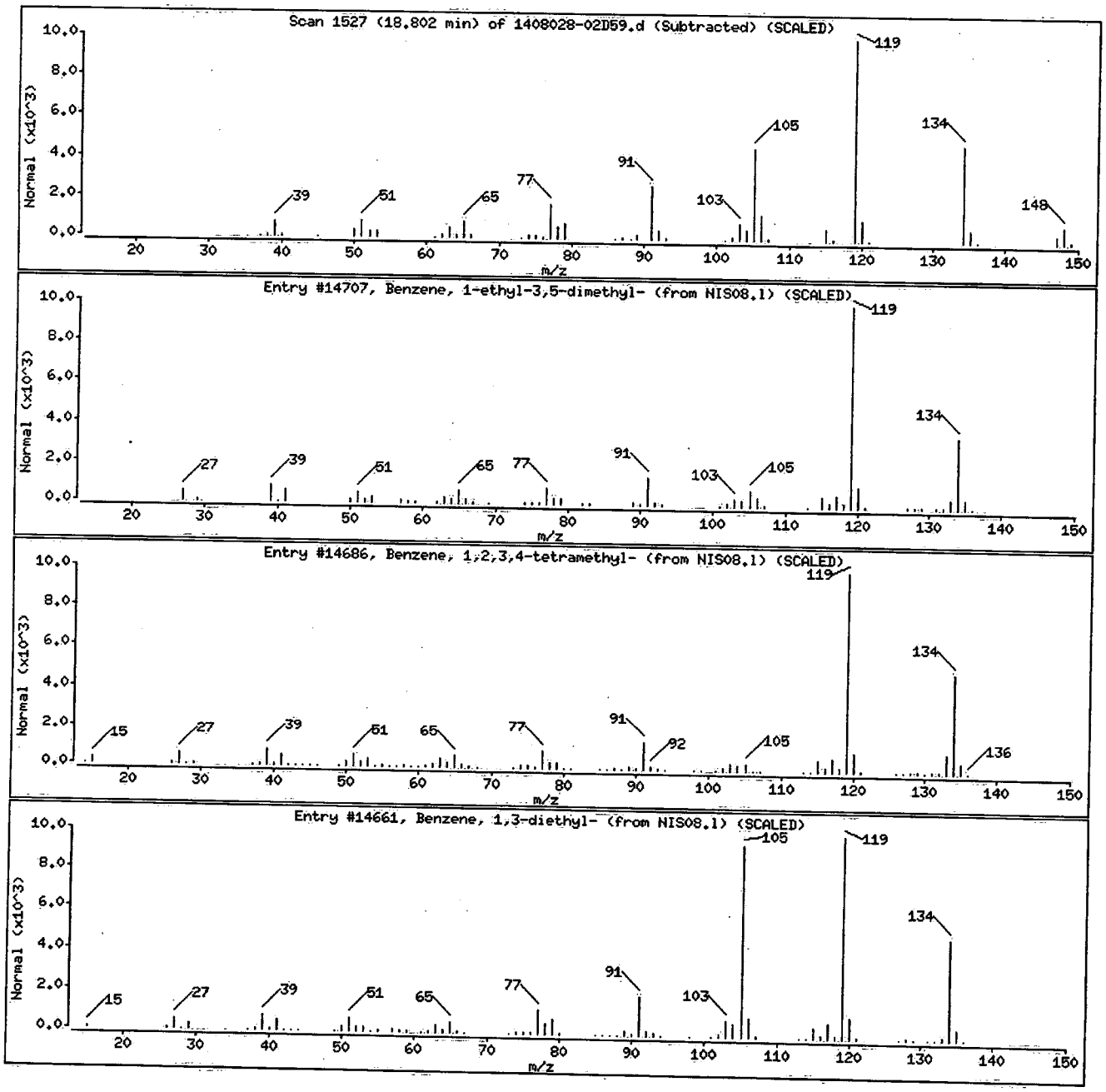
Client ID: P001-DR0502-LW-01 Instrument: 5972hp59.i

Sample Info: 1408028-02:JAO

Operator: JAO

Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1-ethyl-3,5-dimethyl-	934-74-7	NIS08.l	14707	87	C10H14	134
Benzene, 1,2,3,4-tetramethyl-	488-23-3	NIS08.l	14686	87	C10H14	134
Benzene, 1,3-diethyl-	141-93-5	NIS08.l	14661	87	C10H14	134



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Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-02D59.d

Date : 13-AUG-2014 23:42

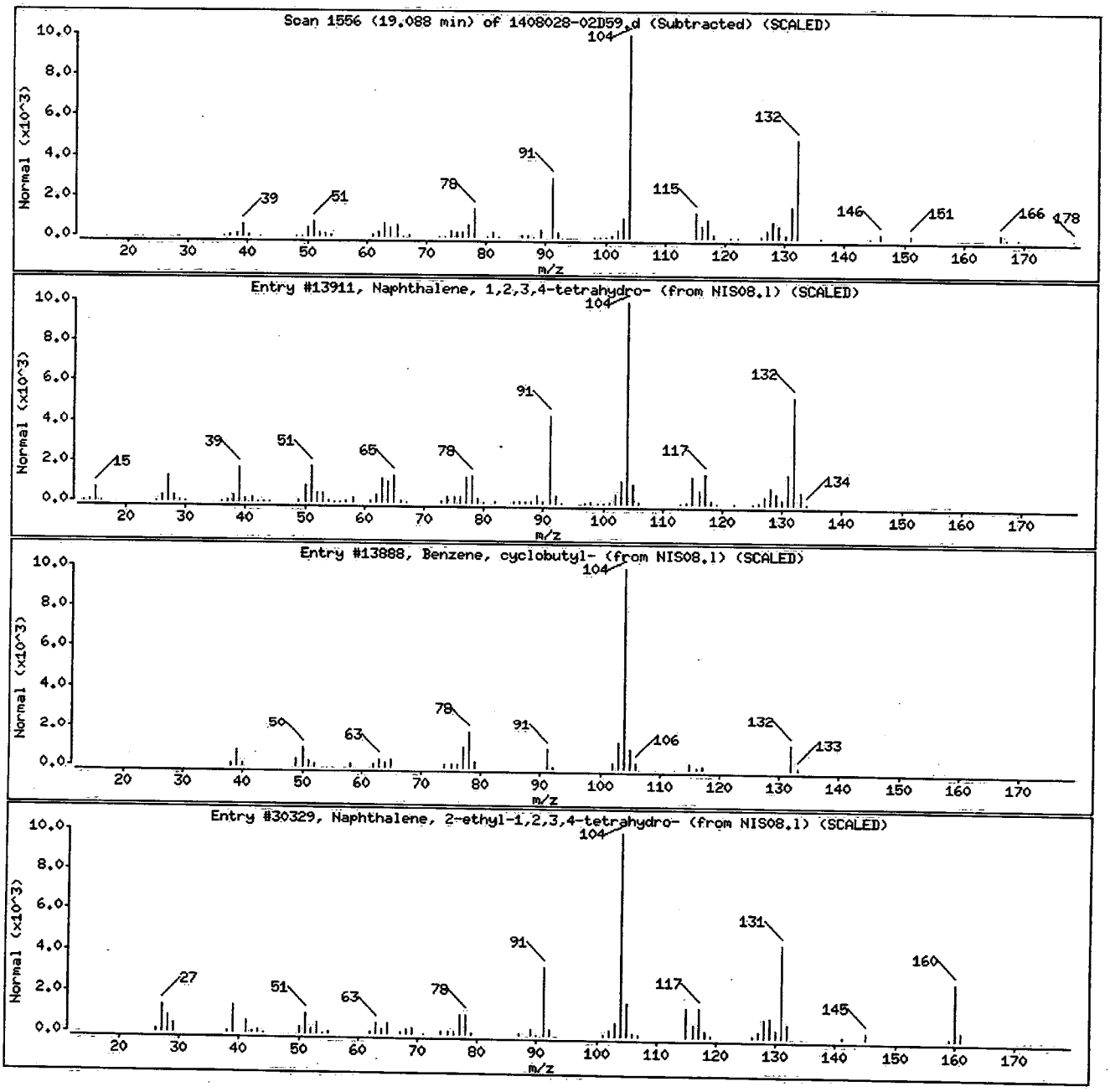
Client ID: P001-DR0502-LW-01 Instrument: 5972hp59.i

Sample Info: 1408028-02:JAO

Operator: JAO

Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Naphthalene, 1,2,3,4-tetrahydro-	119-64-2	NIS08.l	13911	90	C10H12	132
Benzene, cyclobutyl-	4392-30-7	NIS08.l	13888	53	C10H12	132
Naphthalene, 2-ethyl-1,2,3,4-tetrahydro-	32367-54-7	NIS08.l	30329	42	C12H16	160



8/18/2014

Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-02D59.d

Date : 13-AUG-2014 23:42

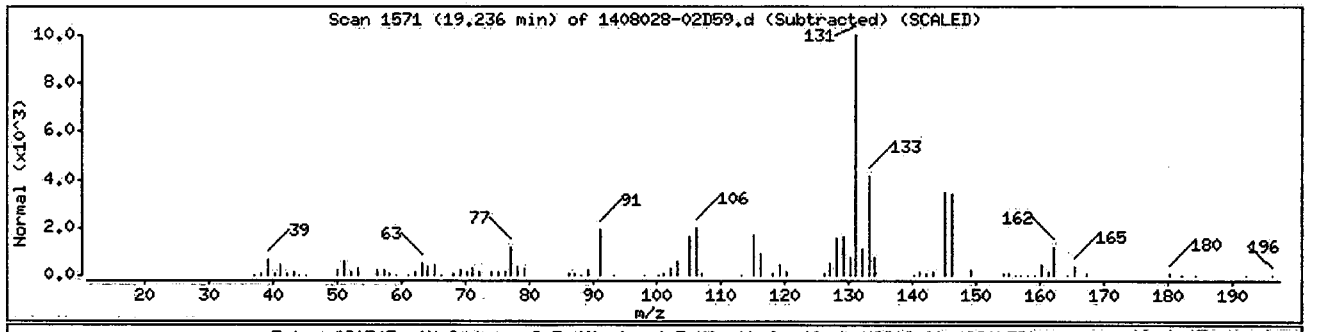
Client ID: P001-DR0502-LW-01 Instrument: 5972hp59.i

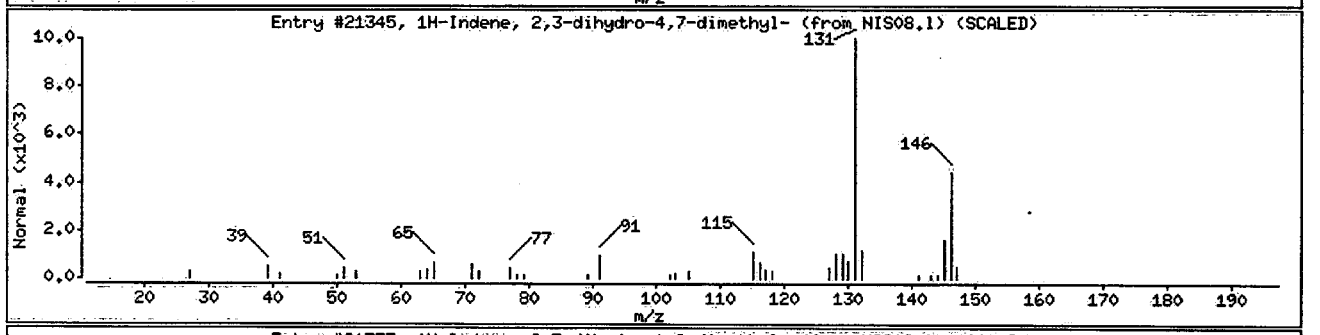
Sample Info: 1408028-02:JAO

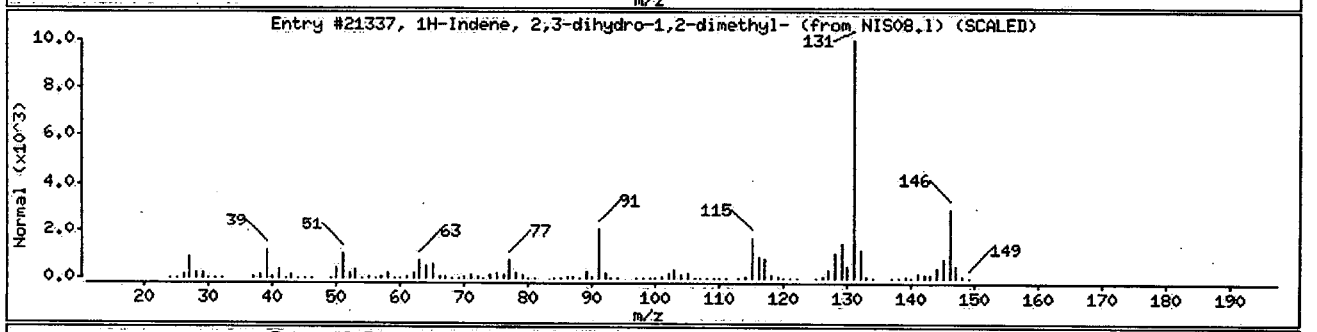
Operator: JAO

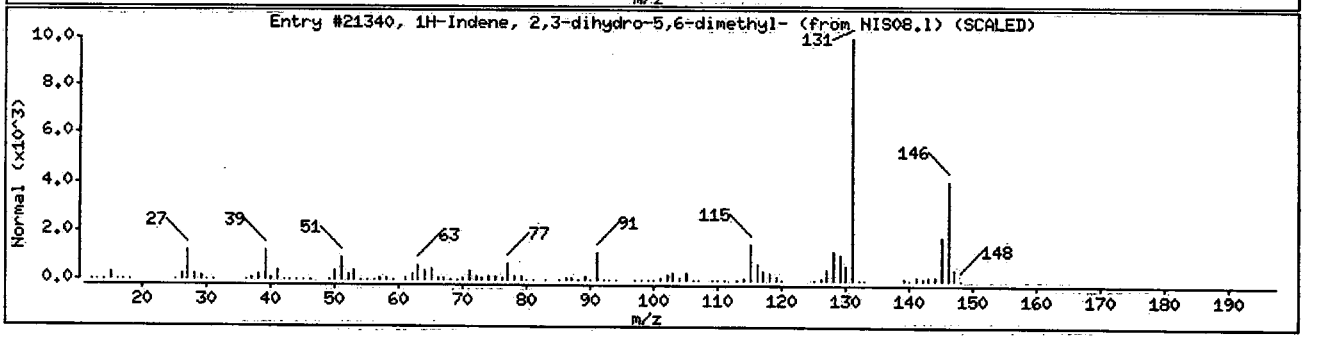
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1H-Indene, 2,3-dihydro-4,7-dimethyl-	6682-71-9	NIS08.l	21345	60	C11H14	146
1H-Indene, 2,3-dihydro-1,2-dimethyl-	17057-82-8	NIS08.l	21337	60	C11H14	146
1H-Indene, 2,3-dihydro-5,6-dimethyl-	1075-22-5	NIS08.l	21340	55	C11H14	146









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Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-02D59.d

Date : 13-AUG-2014 23:42

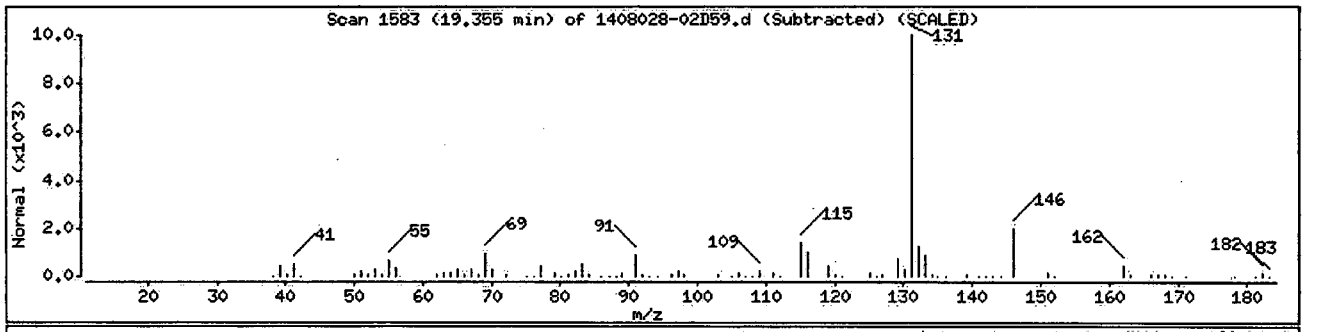
Client ID: P001-DR0502-LW-01 Instrument: 5972hp59.i

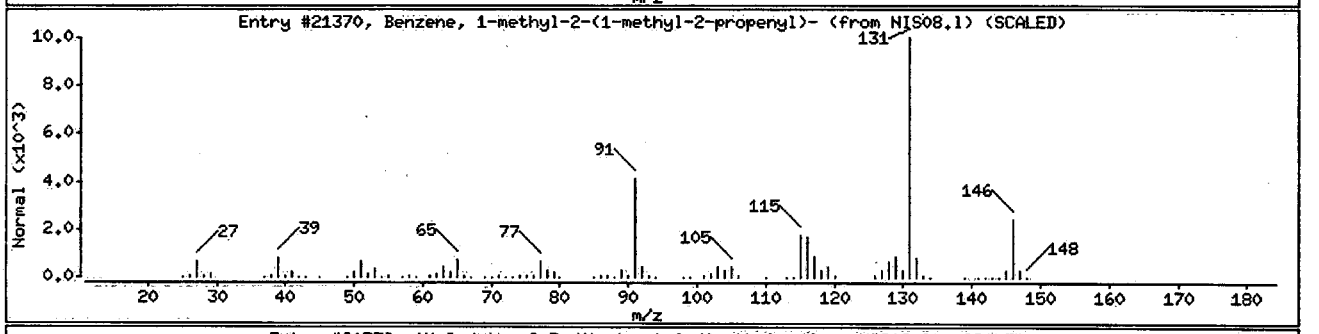
Sample Info: 1408028-02:JAO

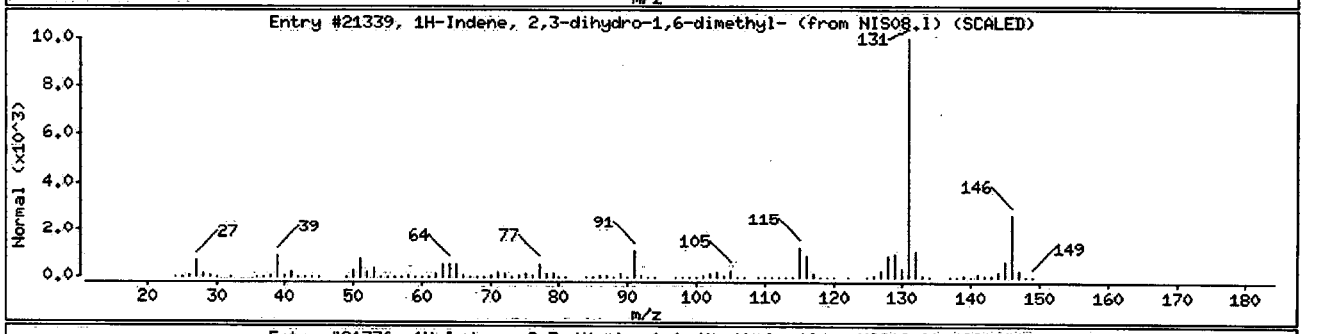
Operator: JAO

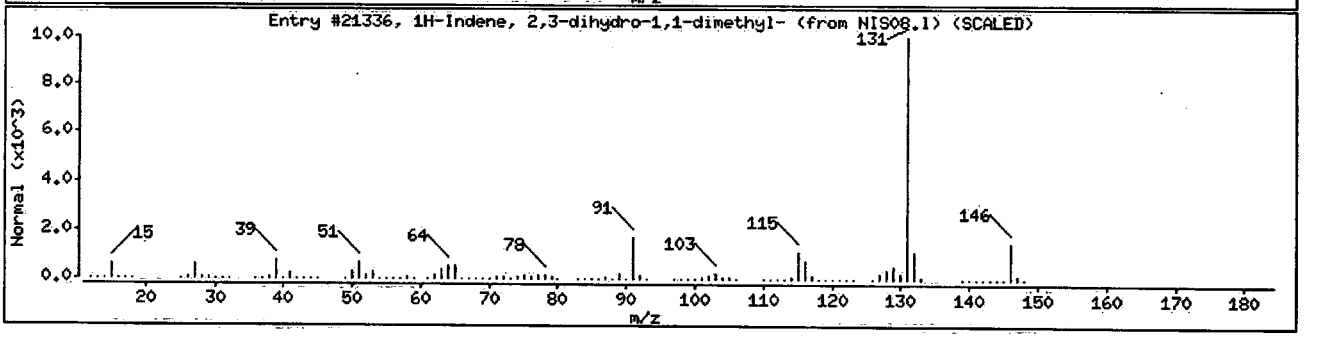
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Benzene, 1-methyl-2-(1-methyl-2-propenyl	97664-19-2	NIS08.l	21370	83	C11H14	146
1H-Indene, 2,3-dihydro-1,6-dimethyl-	17059-48-2	NIS08.l	21339	80	C11H14	146
1H-Indene, 2,3-dihydro-1,1-dimethyl-	4912-92-9	NIS08.l	21336	80	C11H14	146









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Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-02D59.d

Date : 13-AUG-2014 23:42

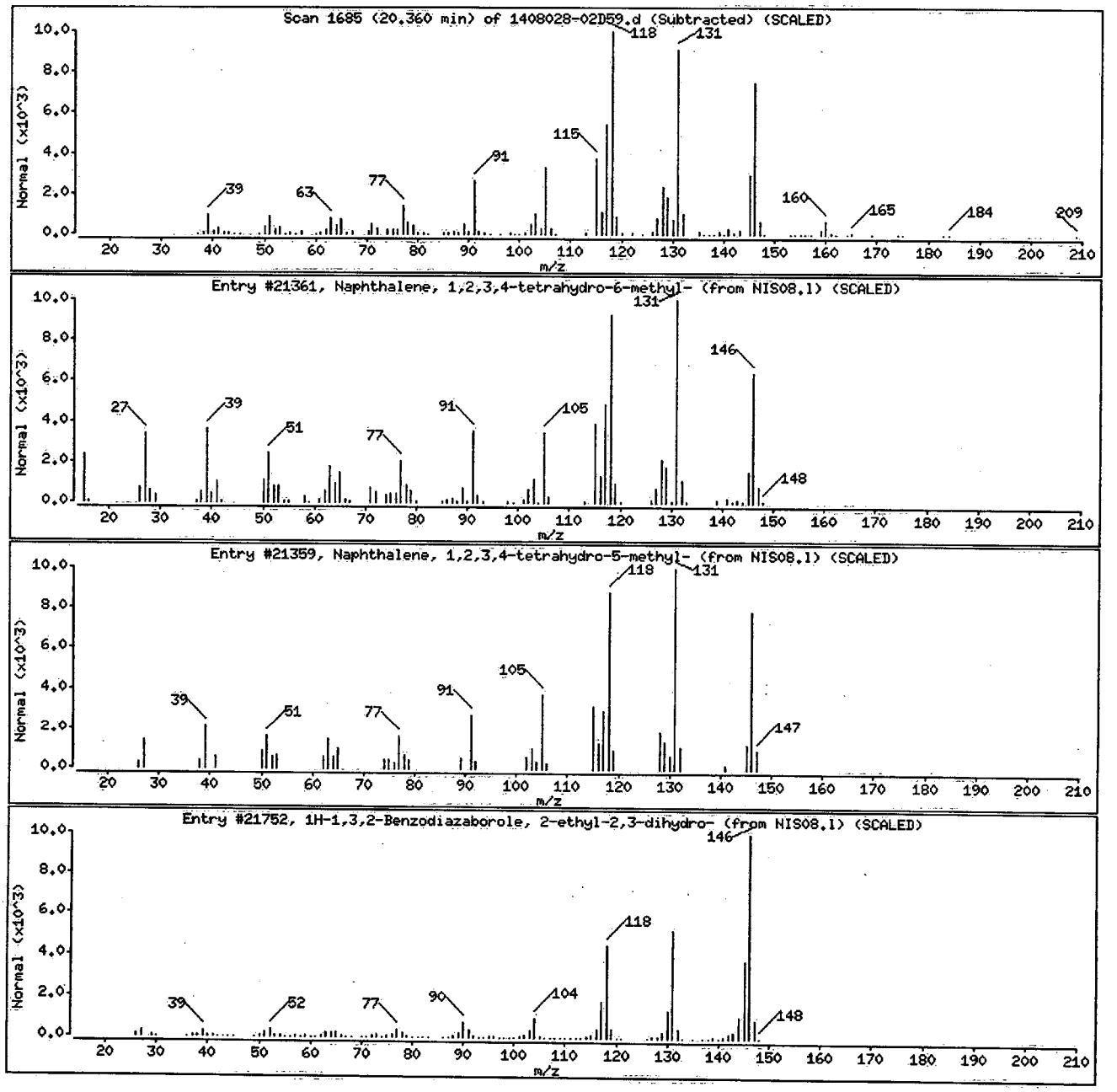
Client ID: P001-DR0502-LW-01 Instrument: 5972hp59.i

Sample Info: 1408028-02:JAO

Operator: JAO

Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Naphthalene, 1,2,3,4-tetrahydro-6-methyl	1680-51-9	NIS08.l	21361	95	C11H14	146
Naphthalene, 1,2,3,4-tetrahydro-5-methyl	2809-64-5	NIS08.l	21359	91	C11H14	146
1H-1,3,2-Benzodiazaborole, 2-ethyl-2,3-d	74663-81-3	NIS08.l	21752	87	C8H11BN2	146



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Data File: /chem/5972hp59.i/D4H13004A59.b/1408028-02D59.d

Date : 13-AUG-2014 23:42

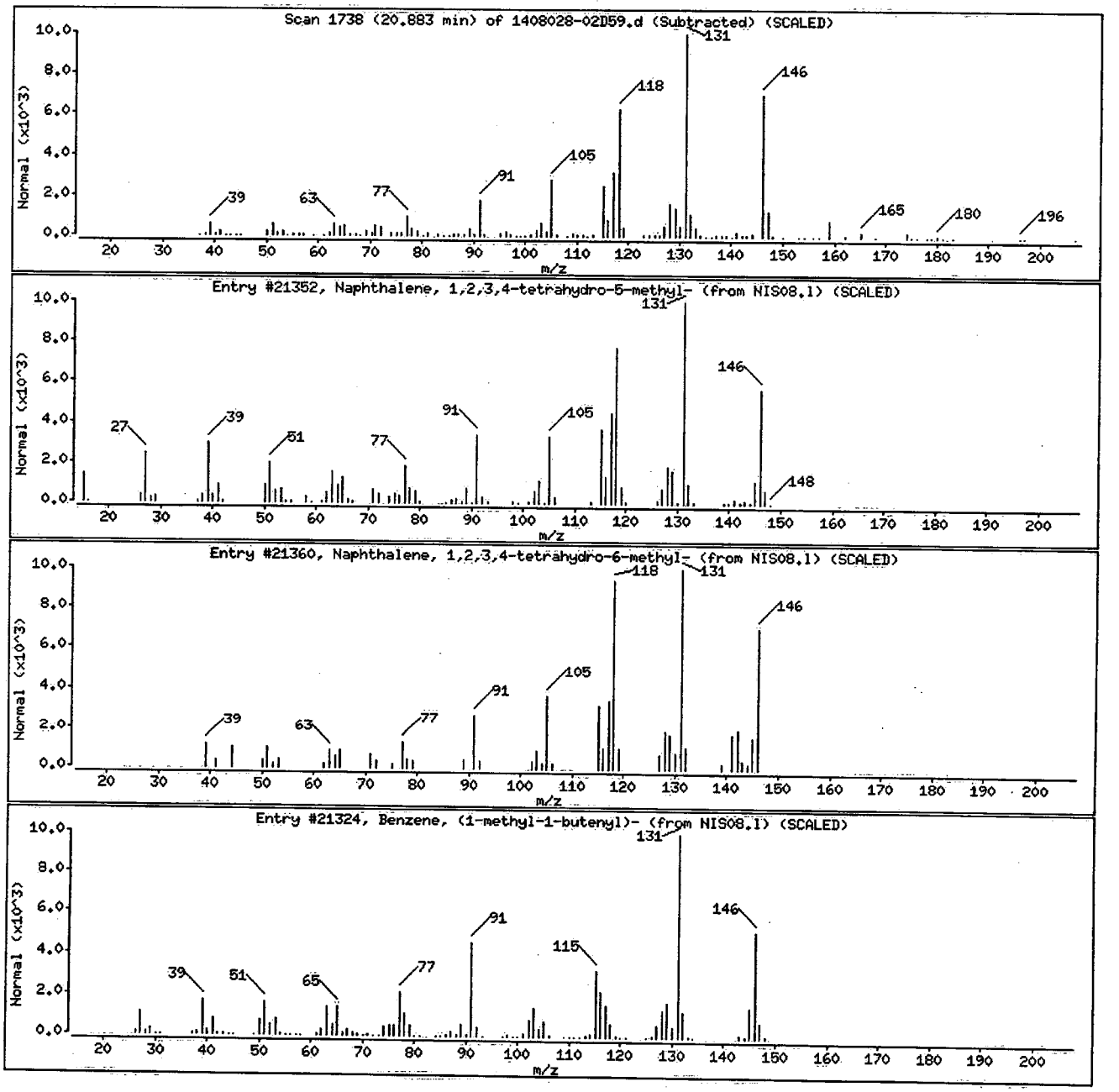
Client ID: P001-DR0502-LW-01 Instrument: 5972hp59.i

Sample Info: 1408028-02:JAO

Operator: JAO

Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Naphthalene, 1,2,3,4-tetrahydro-5-methyl	2809-64-5	NIS08.1	21352	95	C11H14	146
Naphthalene, 1,2,3,4-tetrahydro-6-methyl	1680-51-9	NIS08.1	21360	94	C11H14	146
Benzene, (1-methyl-1-butenyl)-	53172-84-2	NIS08.1	21324	76	C11H14	146



8/18/2014

ANALYSIS DATA SHEET

SW 8260B

P001-DR0502-LW-01RE1

Client: WESTON SOLUTIONS | SDG 1408028 | Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Matrix: Soil | Preparation: EPA 5030B/5035A | File ID: 1408028-02D259.d | Sampled: 08/06/14 00:00

Initial/Final: 5g / 5mL | Lab ID: 1408028-02RE1 | Received: 08/12/14 08:58

Dilution: 50 | pH: | Prepared: 08/15/14 14:17

% Moisture: NA | Analyzed: 08/15/14 16:42

Batch: 4081503 | Sequence: 4H15005 | Calibration: 4081203 | Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
75-71-8	Dichlorodifluoromethane		22	250	U
74-87-3	Chloromethane		16	250	U
75-01-4	Vinyl chloride		21	250	U
74-83-9	Bromomethane		29	250	U
75-00-3	Chloroethane		36	250	U
75-69-4	Trichlorofluoromethane		15	250	U
75-35-4	1,1-Dichloroethene		55	250	U
67-64-1	Acetone		250	630	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		26	250	U
75-15-0	Carbon disulfide		7.0	250	U
79-20-9	Methyl acetate		70	250	U
75-09-2	Methylene chloride		25	250	U
156-60-5	trans-1,2-Dichloroethene		50	250	U
1634-04-4	Methyl tert-butyl ether		20	250	U
75-34-3	1,1-Dichloroethane		24	250	U
156-59-2	cis-1,2-Dichloroethene		21	250	U
78-93-3	2-Butanone		65	630	U
67-66-3	Chloroform		16	250	U
71-55-6	1,1,1-Trichloroethane		25	250	U
110-82-7	Cyclohexane		16	250	U
56-23-5	Carbon tetrachloride		23	250	U
107-06-2	1,2-Dichloroethane		14	250	U
71-43-2	Benzene		16	250	U
79-01-6	Trichloroethene		16	250	U
108-87-2	Methylcyclohexane		14	250	U
78-87-5	1,2-Dichloropropane		32	250	U
75-27-4	Bromodichloromethane		19	250	U
10061-01-5	cis-1,3-Dichloropropene		20	250	U
108-10-1	4-Methyl-2-pentanone		65	630	U
108-88-3	Toluene	24	17	250	JB
10061-02-6	trans-1,3-Dichloropropene		21	250	U
79-00-5	1,1,2-Trichloroethane		36	250	U
127-18-4	Tetrachloroethene		80	250	U
591-78-6	2-Hexanone		50	630	U
124-48-1	Dibromochloromethane		28	250	U

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ANALYSIS DATA SHEET
SW 8260B

P001-DR0502-LW-01RE1

Client: WESTON SOLUTIONS | SDG 1408028 | Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Matrix: Soil | Preparation: EPA 5030B/5035A | File ID: 1408028-02D259.d | Sampled: 08/06/14 00:00

Initial/Final: 5g / 5mL | Lab ID: 1408028-02RE1 | Received: 08/12/14 08:58

Dilution: 50 | pH: | Prepared: 08/15/14 14:17

% Moisture: NA | Analyzed: 08/15/14 16:42

Batch: 4081503 | Sequence: 4H15005 | Calibration: 4081203 | Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/kg wet)	MDL	RL	Q
106-93-4	1,2-Dibromoethane		11	250	U
108-90-7	Chlorobenzene		13	250	U
100-41-4	Ethylbenzene	190	29	250	J
179601-23-1	m,p-Xylene	2100	7.0	500	
95-47-6	o-Xylene	2500	19	250	
100-42-5	Styrene		4.0	250	U
75-25-2	Bromoform		55	250	U
98-82-8	Isopropylbenzene	3400	11	250	
79-34-5	1,1,2,2-Tetrachloroethane		19	250	U
541-73-1	1,3-Dichlorobenzene		14	250	U
106-46-7	1,4-Dichlorobenzene		11	250	U
95-50-1	1,2-Dichlorobenzene		18	250	U
96-12-8	1,2-Dibromo-3-chloropropane		33	250	U
120-82-1	1,2,4-Trichlorobenzene		18	250	U
1330-20-7	Xylenes (total)	4700	7.0	250	

SURROGATE RECOVERY RESULTS	ADDED (ug/kg wet)	CONC (ug/kg wet)	% REC	QC LIMITS	Q
Dibromofluoromethane	2500	2630	105	71 - 141	D
1,2-Dichloroethane-d4	2500	2529	101	70 - 139	D
Toluene-d8	2500	3501	140	72 - 123	D
Bromofluorobenzene	2500	2253	90	65 - 131	D

CAS NO.	TICS	CONC. (ug/kg wet)	Response	R.T.	% Match	Q
17057-82-8	1H-Indene, 2,3-dihydro-1,2-dimethyl-	100000	39375170	19.35	90	JN
000824-90-8	1-Phenyl-1-butene	71000	27407790	18.67	93	JN
000526-73-8	Benzene, 1,2,3-trimethyl-	200000	77362380	17.052	95	JN
000611-14-3	Benzene, 1-ethyl-2-methyl-	69000	26359610	16.924	93	JN
000620-14-4	Benzene, 1-ethyl-3-methyl-	170000	64585970	16.688	94	JN
001560-06-1	Benzene, 2-butenyl-	140000	55366410	18.867	87	JN
000934-80-5	Benzene, 4-ethyl-1,2-dimethyl-	200000	75731370	18.354	95	JN
000119-64-2	Naphthalene, 1,2,3,4-tetrahydro-	210000	80399420	19.084	93	JN
1559-81-5	Naphthalene, 1,2,3,4-tetrahydro-1-methyl	100000	39256770	19.843	87	JN
3877-19-8	Naphthalene, 1,2,3,4-tetrahydro-2-methyl	110000	42291520	19.715	90	JN
1680-51-9	Naphthalene, 1,2,3,4-tetrahydro-6-methyl	71000	27391270	20.356	95	JN
91-17-8	Naphthalene, decahydro-	150000	57784350	17.743	91	JN
NA	Unk. Alkane	1200	446388	15.307	0	J
NA	Unk. Alkane(1)	1600	607178	15.396	0	J
NA	Unk. Alkane(10)	280000	107300000	17.536	0	J

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ANALYSIS DATA SHEET

SW 8260B

P001-DR0502-LW-01RE1

Client: WESTON SOLUTIONS | SDG 1408028 | Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Matrix: Soil | Preparation: EPA 5030B/5035A | File ID: 1408028-02D259.d | Sampled: 08/06/14 00:00

Initial/Final: 5g / 5mL | Lab ID: 1408028-02RE1 | Received: 08/12/14 08:58

Dilution: 50 | pH: | Prepared: 08/15/14 14:17

% Moisture: NA | Analyzed: 08/15/14 16:42

Batch: 4081503 | Sequence: 4H15005 | Calibration: 4081203 | Instrument: 5972hp59

CAS NO.	TICS	CONC. (ug/kg wet)	Response	R.T.	% Match	Q
NA	Unk. Alkane(11)	210000	81659810	18.482	0	J
NA	Unk. Alkane(12)	140000	53272010	18.62	0	J
NA	Unk. Alkane(13)	140000	53494230	19.252	0	J
NA	Unk. Alkane(14)	65000	24859820	19.577	0	J
NA	Unk. Alkane(2)	25000	9589381	16.037	0	J
NA	Unk. Alkane(3)	22000	8347015	16.165	0	J
NA	Unk. Alkane(4)	68000	26139920	16.293	0	J
NA	Unk. Alkane(5)	31000	11795690	16.392	0	J
NA	Unk. Alkane(6)	140000	53147110	16.628	0	J
NA	Unk. Alkane(7)	97000	37411960	16.855	0	J
NA	Unk. Alkane(8)	210000	80789730	17.21	0	J
NA	Unk. Alkane(9)	140000	54859640	17.289	0	J
NA	Unknown 17.674	170000	65959840	17.674	0	J
NA	Unknown 17.832	170000	65424310	17.832	0	J
NA	Unknown 18.039	200000	77846880	18.039	0	J
NA	Unknown 18.117	160000	59763240	18.117	0	J
NA	Unknown 18.216	140000	55358660	18.216	0	J
NA	Unknown 18.285	110000	41759680	18.285	0	J
NA	Unknown 18.739	87000	33581660	18.739	0	J
NA	Unknown 18.808	120000	46246680	18.808	0	J
NA	Unknown 19.163	90000	34592380	19.163	0	J
NA	Unknown 19.508	110000	40712340	19.508	0	J

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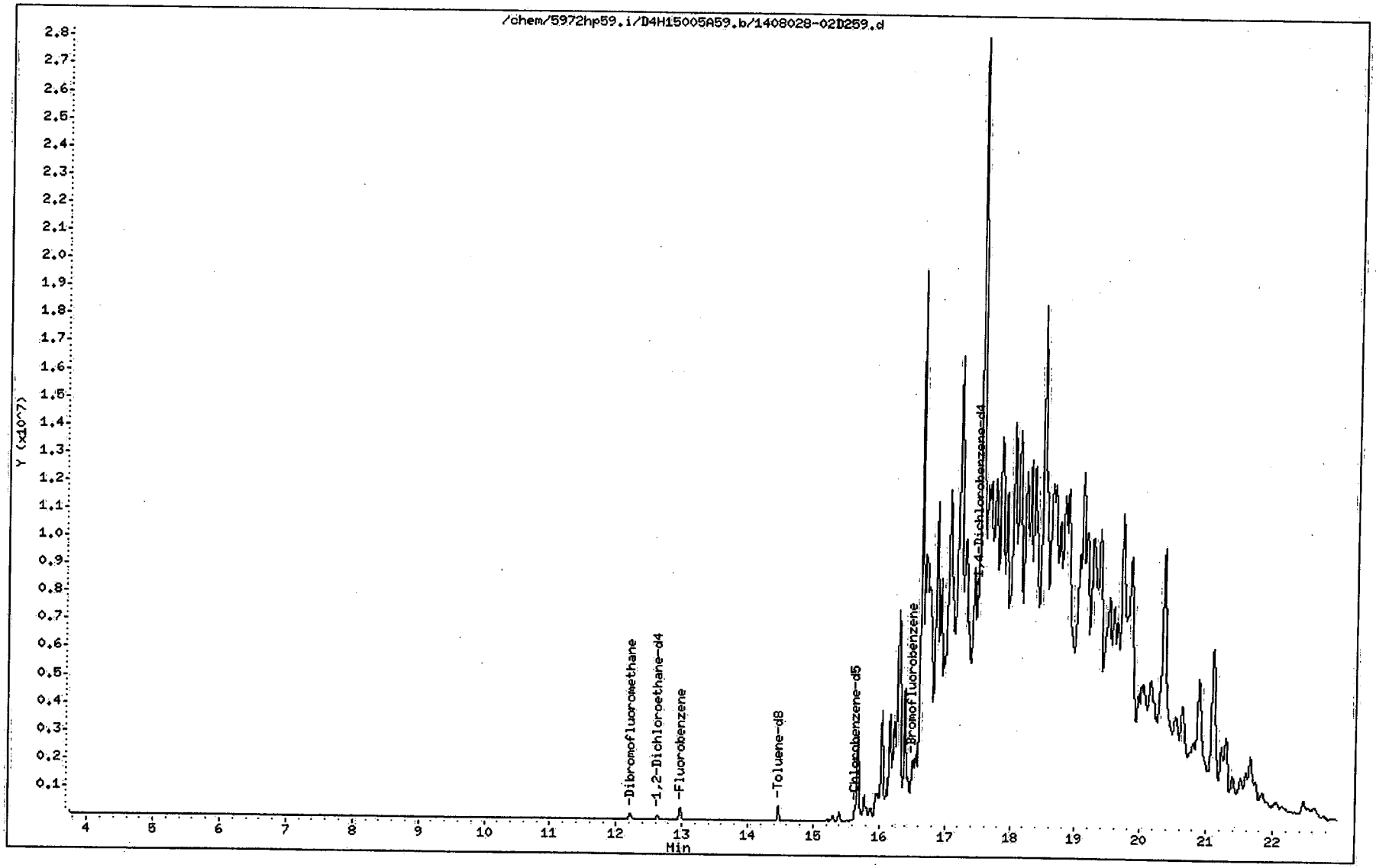
Data File: /chem/5972hp59.i/D4H15005A59.b/1408028-02D259.d
Date : 15-AUG-2014 16:42
Client ID: P001-DR0502-LW-01RE
Sample Info: 1408028-02RE1:JAO

Column phase: SPB-624

Instrument: 5972hp59.i

Operator: JAO
Column diameter: 0.32



8/18/2014

Data File: /chem/5972hp59.i/D4H15005A59.b/1408028-02D259.d
Report Date: 18-Aug-2014 15:43

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp59.i/D4H15005A59.b/1408028-02D259.d
Lab Smp Id: 1408028-02RE1 Client Smp ID: P001-DR0502-LW-01RE
Inj Date : 15-AUG-2014 16:42
Operator : JAO Inst ID: 5972hp59.i
Smp Info : 1408028-02RE1:JAO
Misc Info : P001-DR0502-LW-01RE
Comment :
Method : /chem/5972hp59.i/D4H15005A59.b/8260B_5ppbv5.m
Meth Date : 18-Aug-2014 15:43 ron Quant Type: ISTD
Cal Date : 11-AUG-2014 18:02 Cal File: 4H11002-CAL3R59.d
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TCL4.sub
Target Version: 3.50
Processing Host: dante

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

Name	Value	Description
DF	1.00000	Dilution Factor
Ws	5.00000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Vt	5000.00000	
Va	100.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
* 1 Fluorobenzene	96	12.970	12.972	(1.000)	481621	250.000	
* 2 Chlorobenzene-d5	117	15.632	15.634	(1.000)	278080	250.000	
* 3 1,4-Dichlorobenzene-d4	152	17.477	17.419	(1.000)	93273	250.000	
$ 4 Dibromofluoromethane	113	12.211	12.212	(0.941)	144009	262.965	2629.65
$ 5 1,2-Dichloroethane-d4	65	12.635	12.636	(0.974)	117428	252.899	2528.99
$ 6 Toluene-d8	98	14.469	14.471	(0.926)	397537	350.081	3500.81(R)
$ 7 Bromofluorobenzene	95	16.500	16.502	(0.944)	67095	225.291	2252.91(H)
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					

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Data File: /chem/5972hp59.i/D4H15005A59.b/1408028-02D259.d
Report Date: 18-Aug-2014 15:43

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
17 1,1-Dichloroethene	96	Compound Not Detected.					
18 Acetone	43	Compound Not Detected.					
16 1,1,2-trichloro-1,2,2-trifluo	101	Compound Not Detected.					
20 Carbon disulfide	76	Compound Not Detected.					
23 Methyl acetate	43	Compound Not Detected.					
24 Methylene Chloride	84	Compound Not Detected.					
28 trans-1,2-Dichloroethene	96	Compound Not Detected.					
26 Methyl-tert-butyl ether	73	Compound Not Detected.					
32 1,1-Dichloroethane	63	Compound Not Detected.					
37 cis-1,2-Dichloroethene	96	Compound Not Detected.					
35 2-butanone	43	Compound Not Detected.					
42 Chloroform	83	Compound Not Detected.					
43 1,1,1-Trichloroethane	97	Compound Not Detected.					
44 Cyclohexane	56	Compound Not Detected.					
48 Carbon Tetrachloride	117	Compound Not Detected.					
50 1,2-Dichloroethane	62	Compound Not Detected.					
49 Benzene	78	Compound Not Detected.					
51 Trichloroethene	130	Compound Not Detected.					
52 Methylcyclohexane	83	Compound Not Detected.					
54 1,2-Dichloropropane	63	Compound Not Detected.					
57 Bromodichloromethane	83	Compound Not Detected.					
58 cis-1,3-Dichloropropene	75	Compound Not Detected.					
59 4-Methyl-2-pentanone	43	Compound Not Detected.					
60 Toluene	92	14.528	14.530	(0.929)	1700	2.39731	23.9731(a)
62 trans-1,3-Dichloropropene	75	Compound Not Detected.					
63 1,1,2-Trichloroethane	97	Compound Not Detected.					
67 Tetrachloroethene	164	Compound Not Detected.					
64 2-hexanone	43	Compound Not Detected.					
68 Dibromochloromethane	129	Compound Not Detected.					
69 1,2-Dibromoethane	107	Compound Not Detected.					
71 Chlorobenzene	112	Compound Not Detected.					
72 Ethylbenzene	106	15.682	15.693	(1.003)	7941	19.2682	192.682(a)
75 m,p-Xylene (part of total)	106	15.771	15.772	(1.009)	112229	214.670	2146.70
77 o-Xylene (part of total)	106	16.076	16.088	(1.028)	127674	252.505	2525.05
78 Styrene	104	Compound Not Detected.					
79 Bromoform	173	Compound Not Detected.					
80 Isopropyl Benzene	105	16.323	16.334	(1.044)	412264	341.561	3415.61
81 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
94 1,3-Dichlorobenzene	146	Compound Not Detected.					
95 1,4-Dichlorobenzene	146	Compound Not Detected.					
97 1,2-Dichlorobenzene	146	Compound Not Detected.					
98 1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.					
99 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
M 104 Xylene (total)	106				239903	467.176	4671.76

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Data File: /chem/5972hp59.i/D4H15005A59.b/1408028-02D259.d
Report Date: 18-Aug-2014 15:43

QC Flag Legend

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

8/18/2014

Data File: /chem/5972hp59.i/D4H15005A59.b/1408028-02D259.d
Report Date: 18-Aug-2014 15:43

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp59.i/D4H15005A59.b/1408028-02D259.d
Lab Smp Id: 1408028-02RE1 Client Smp ID: P001-DR0502-LW-01RE
Inj Date : 15-AUG-2014 16:42
Operator : JAO Inst ID: 5972hp59.i
Smp Info : 1408028-02RE1:JAO
Misc Info : P001-DR0502-LW-01RE
Comment :
Method : /chem/5972hp59.i/D4H15005A59.b/8260B_5ppbv5.m
Meth Date : 18-Aug-2014 15:43 ron Quant Type: ISTD
Cal Date : 11-AUG-2014 18:02 Cal File: 4H11002-CAL3R59.d
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TCL4.sub
Target Version: 3.50
Processing Host: dante

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

Name	Value	Description
DF	1.00000	Dilution Factor
Ws	5.00000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Vt	5000.00000	
Va	100.00000	

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 1 Fluorobenzene	12.970	959845	250.000

RT	AREA	CONCENTRATIONS ON-COL(ng)	FINAL(ug/Kg)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Unk. Alkane				CAS #:			
15.307	446388	116.265628	1162.66	0		0	1
Unk. Alkane				CAS #:			
15.396	607178	158.144645	1581.45	0		0	1

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Data File: /chem/5972hp59.i/D4H15005A59.b/1408028-02D259.d
Report Date: 18-Aug-2014 15:43

RT	AREA	CONCENTRATIONS ON-COL(ng)	FINAL(ug/Kg)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Unk. Alkane				CAS #:			
16.037	9589381	2497.63546	24976.4	0		0	1
Unk. Alkane				CAS #:			
16.165	8347015	2174.05073	21740.5	0		0	1
Unk. Alkane				CAS #:			
16.293	26139915	6808.36179	68083.6	0		0	1
Unk. Alkane				CAS #:			
16.392	11795691	3072.28755	30722.9	0		0	1
Unk. Alkane				CAS #:			
16.628	53147112	13842.6144	138426	0		0	1
Benzene, 1-ethyl-3-methyl-				CAS #: 620-14-4			
16.688	64585973	16821.9625	168220	94	NIS08.1	9315	1
Unk. Alkane				CAS #:			
16.855	37411962	9744.26183	97442.6	0		0	1
Benzene, 1-ethyl-2-methyl-				CAS #: 611-14-3			
16.924	26359607	6865.58240	68655.8	93	NIS08.1	9317	1
Benzene, 1,2,3-trimethyl-				CAS #: 526-73-8			
17.052	77362375	20149.6845	201497	95	NIS08.1	9303	1
Unk. Alkane				CAS #:			
17.210	80789729	21042.3678	210424	0		0	1
Unk. Alkane				CAS #:			
17.289	54859637	14288.6562	142887	0		0	1
Unk. Alkane				CAS #:			
17.536	1.073e+08	27943.6061	279436	0		0	1
Unknown				CAS #:			
17.674	65959842	17179.7984	171798	0		0	1
Naphthalene, decahydro-				CAS #: 91-17-8			
17.743	57784353	15050.4231	150504	91	NIS08.1	16684	1
Unknown				CAS #:			
17.832	65424308	17040.3140	170403	0		0	1

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Data File: /chem/5972hp59.i/D4H15005A59.b/1408028-02D259.d
Report Date: 18-Aug-2014 15:43

RT	AREA	CONCENTRATIONS ON-COL(ng)	FINAL(ug/Kg)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
18.039	77846884	20275.8789	202759	0		0	1
Unknown				CAS #:			
18.117	59763240	15565.8409	155658	0		0	1
Unknown				CAS #:			
18.216	55358658	14418.6302	144186	0		0	1
Unknown				CAS #:			
18.285	41759677	10876.6609	108767	0		0	1
Benzene, 4-ethyl-1,2-dimethyl-				CAS #: 934-80-5			
18.354	75731368	19724.8748	197249	95	NIS08.1	14710	1
Unk. Alkane				CAS #:			
18.482	81659808	21268.9873	212690	0		0	1
Unk. Alkane				CAS #:			
18.620	53272009	13875.1450	138751	0		0	1
1-Phenyl-1-butene				CAS #: 824-90-8			
18.670	27407790	7138.59052	71385.9	93	NIS08.1	13878	1
Unknown				CAS #:			
18.739	33581664	8746.62825	87466.3	0		0	1
Unknown				CAS #:			
18.808	46246685	12045.3401	120453	0		0	1
Benzene, 2-butenyl-				CAS #: 1560-06-1			
18.867	55366410	14420.6495	144206	87	NIS08.1	13887	1
Naphthalene, 1,2,3,4-tetrahydro-				CAS #: 119-64-2			
19.084	80399423	20940.7092	209407	93	NIS08.1	13923	1
Unknown				CAS #:			
19.163	34592381	9009.87807	90098.8	0		0	1
Unk. Alkane				CAS #:			
19.252	53494231	13933.0245	139330	0		0	1
1H-Indene, 2,3-dihydro-1,2-dimethyl-				CAS #: 17057-82-8			
19.350	39375168	10255.5953	102556	90	NIS08.1	21337	1

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Data File: /chem/5972hp59.i/D4H15005A59.b/1408028-02D259.d
Report Date: 18-Aug-2014 15:43

RT	AREA	CONCENTRATIONS ON-COL(ng)	FINAL(ug/Kg)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
19.508	40712339	10603.8728	106039	0		0	1
Unk. Alkane				CAS #:			
19.577	24859821	6474.95047	64749.5	0		0	1
Naphthalene, 1,2,3,4-tetrahydro-2-methyl				CAS #: 3877-19-8			
19.715	42291517	11015.1829	110152	90	NIS08.1	21357	1
Naphthalene, 1,2,3,4-tetrahydro-1-methyl				CAS #: 1559-81-5			
19.843	39256768	10224.7570	102248	87	NIS08.1	21353	1
Naphthalene, 1,2,3,4-tetrahydro-6-methyl				CAS #: 1680-51-9			
20.356	27391273	7134.28866	71342.9	95	NIS08.1	21361	1

8/18/2014

Data File: /chem/5972hp59.i/D4H15005A59.b/1408028-02D259.d

Date : 15-AUG-2014 16:42

Client ID: P001-DR0502-LW-01RE

Instrument: 5972hp59.i

Sample Info: 1408028-02RE1:JAO

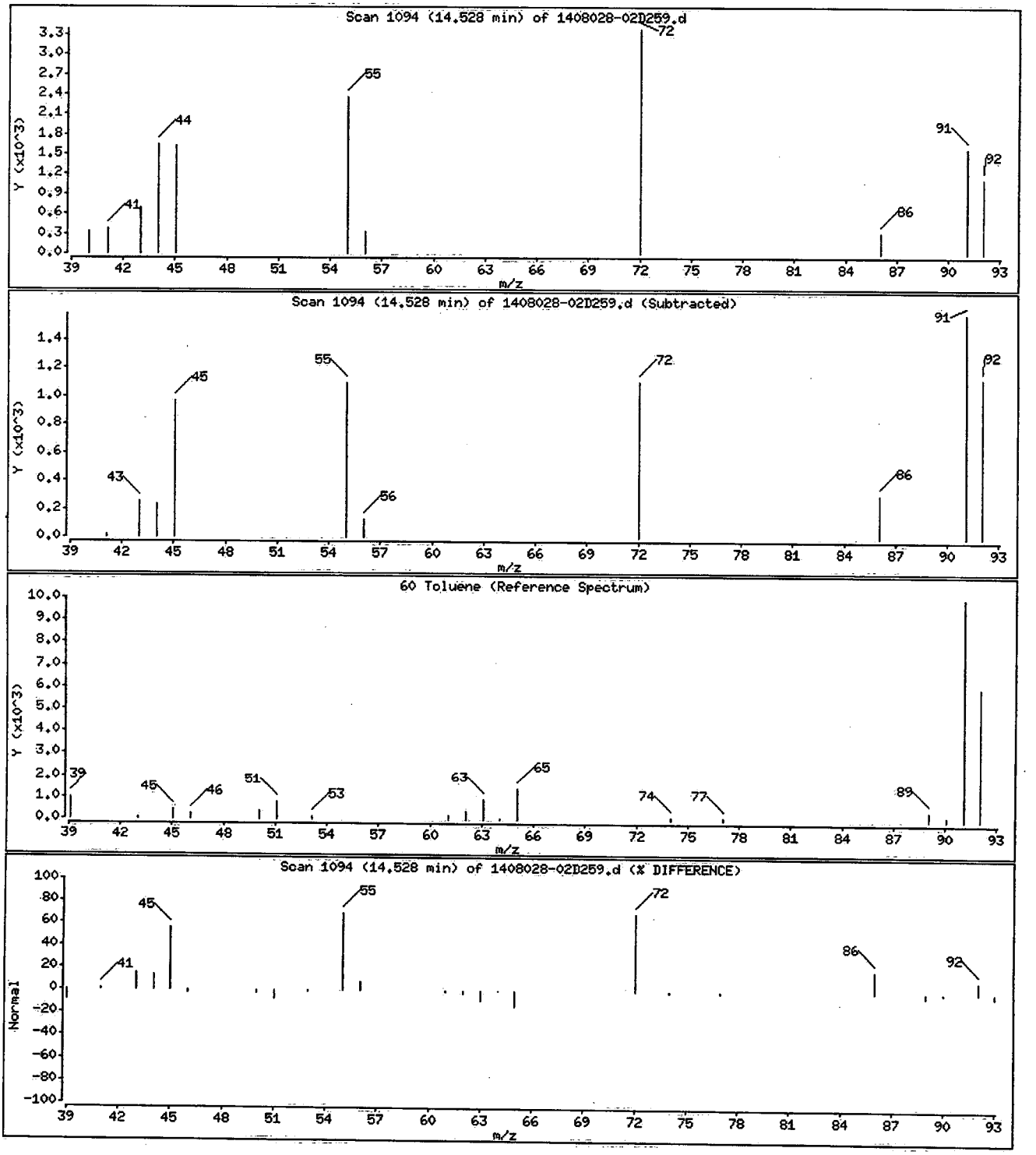
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

60 Toluene

Concentration: 23.9731 ug/Kg



8/18/2014

Data File: /chem/5972hp59.i/D4H15005A59.b/1408028-02D259.d

Date : 15-AUG-2014 16:42

Client ID: P001-DR0502-LW-01RE

Instrument: 5972hp59.i

Sample Info: 1408028-02RE1:JAO

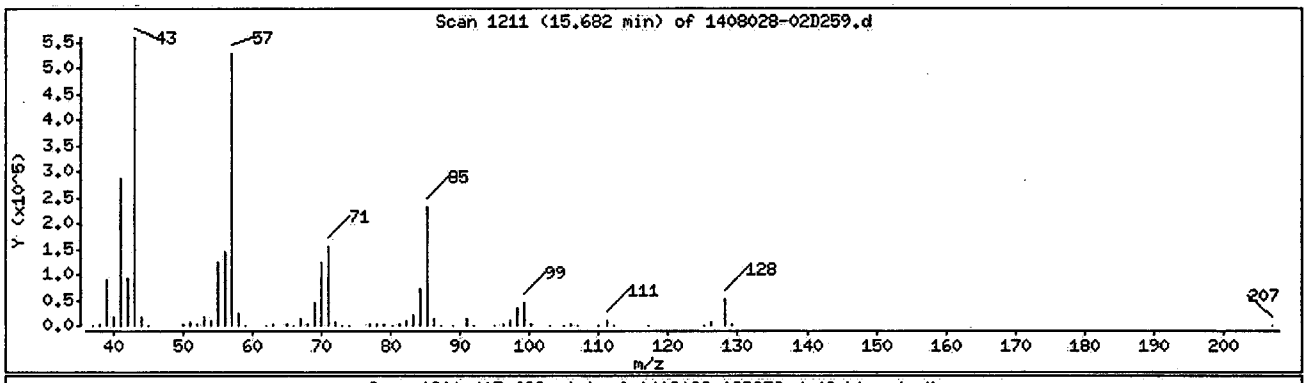
Operator: JAO

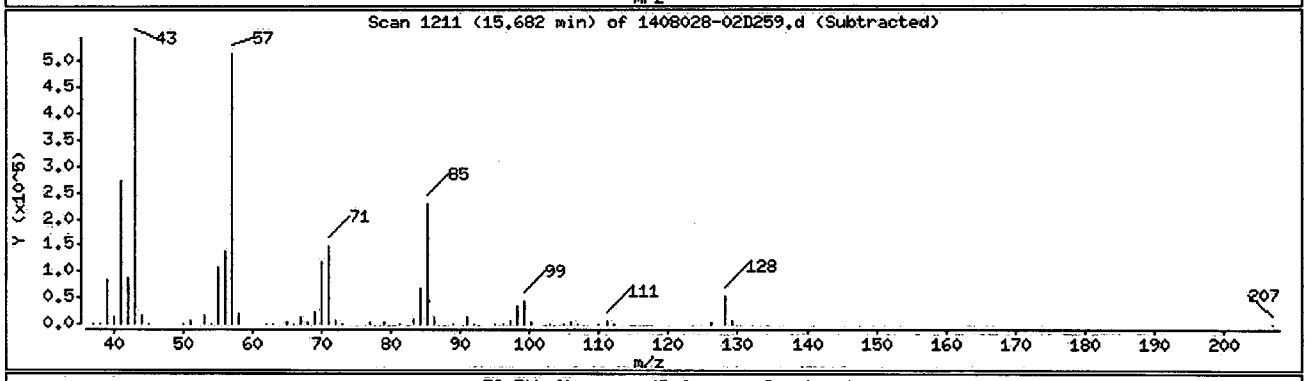
Column phase: SPB-624

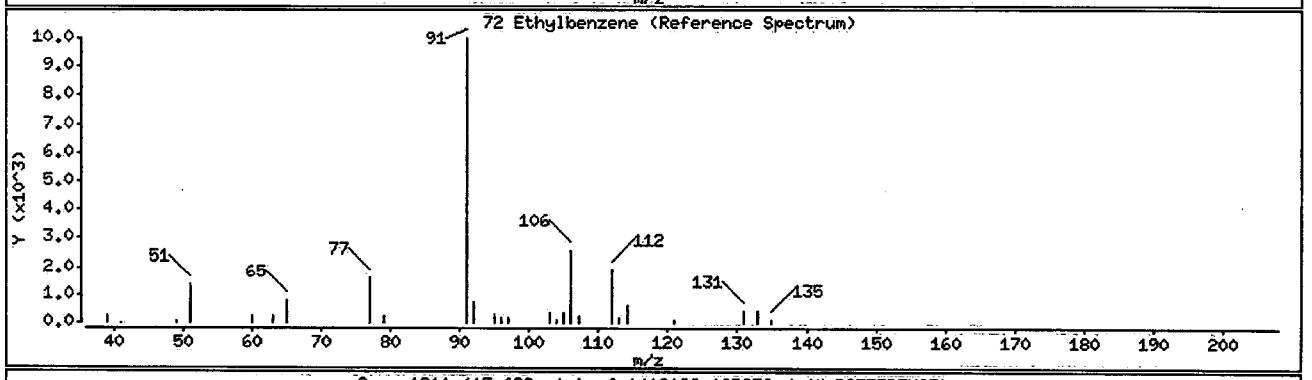
Column diameter: 0.32

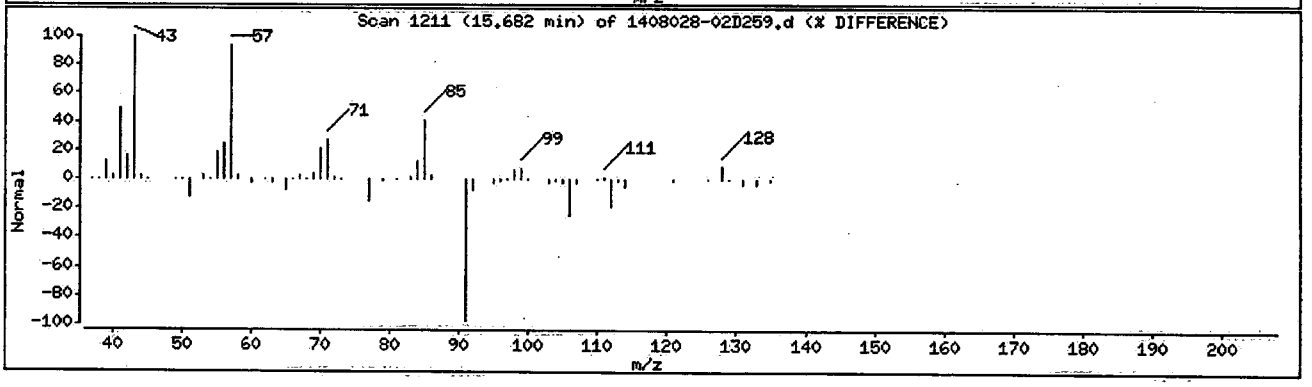
72 Ethylbenzene

Concentration: 192.682 ug/Kg









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Data File: /chem/5972hp59.i/D4H15005A59.b/1408028-02D259.d

Date : 15-AUG-2014 16:42

Client ID: P001-DR0502-LW-01RE

Instrument: 5972hp59.i

Sample Info: 1408028-02RE1:JAO

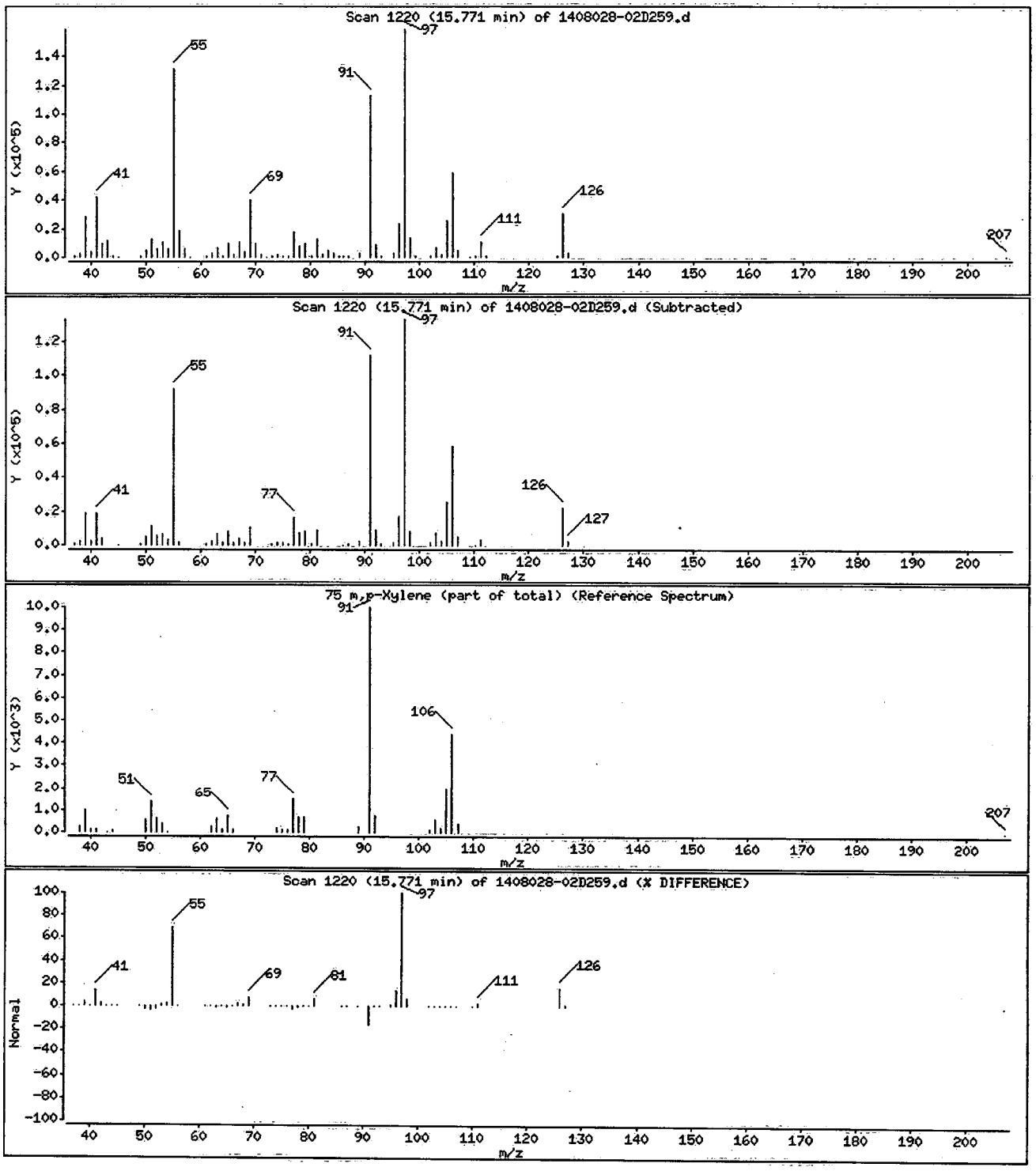
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

75 m,p-Xylene (part of total)

Concentration: 2146.70 ug/Kg



Roldw Hani 8/18/2014

Data File: /chem/5972hp59.i/D4H15005A59.b/1408028-02D259.d

Date : 15-AUG-2014 16:42

Client ID: P001-DR0502-LW-01RE

Instrument: 5972hp59.i

Sample Info: 1408028-02RE1:JAO

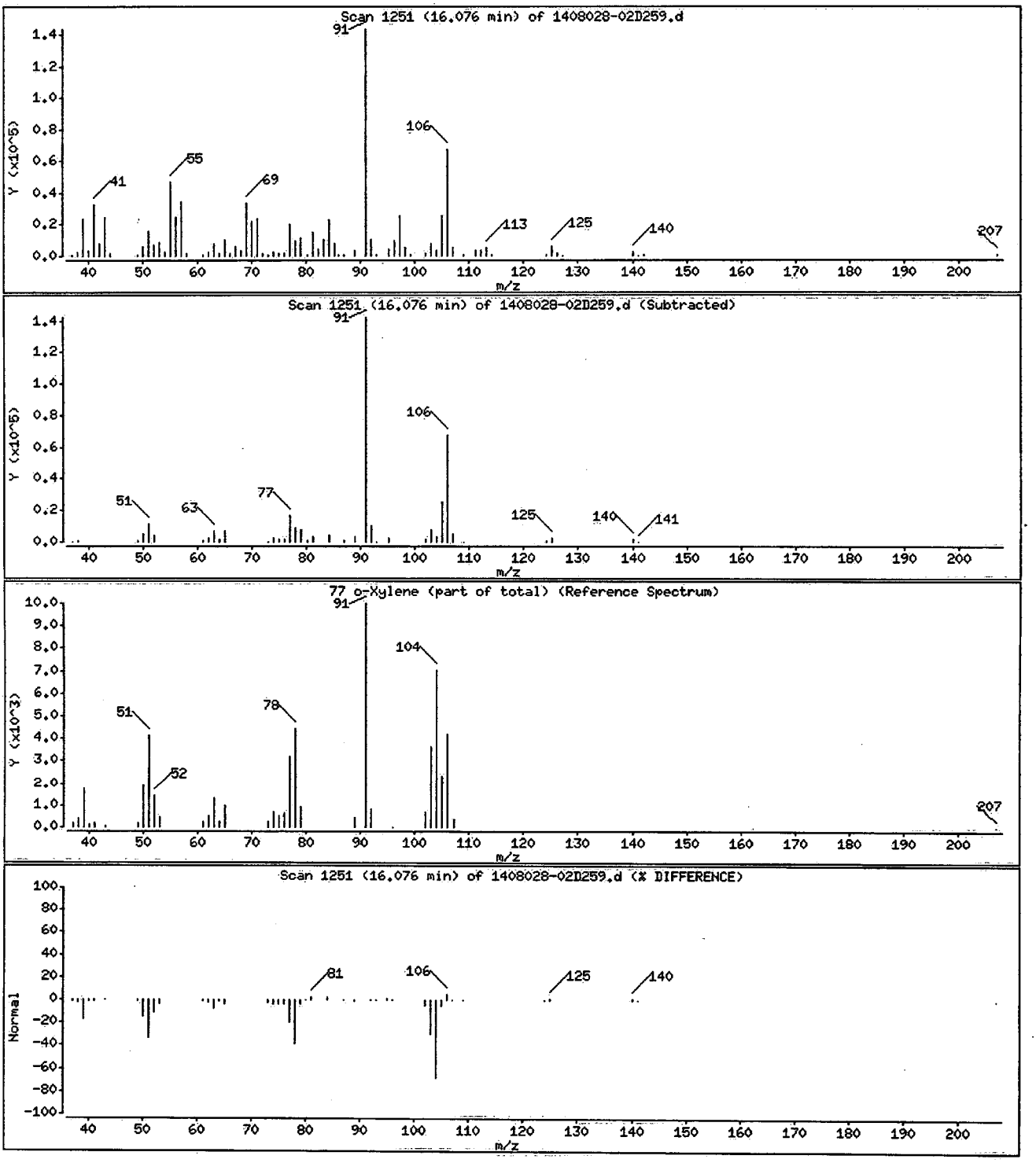
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

77 o-Xylene (part of total)

Concentration: 2525.05 ug/Kg



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Date : 15-AUG-2014 16:42

Client ID: P001-DR0502-LW-01RE

Instrument: 5972hp59.i

Sample Info: 1408028-02RE1;JAO

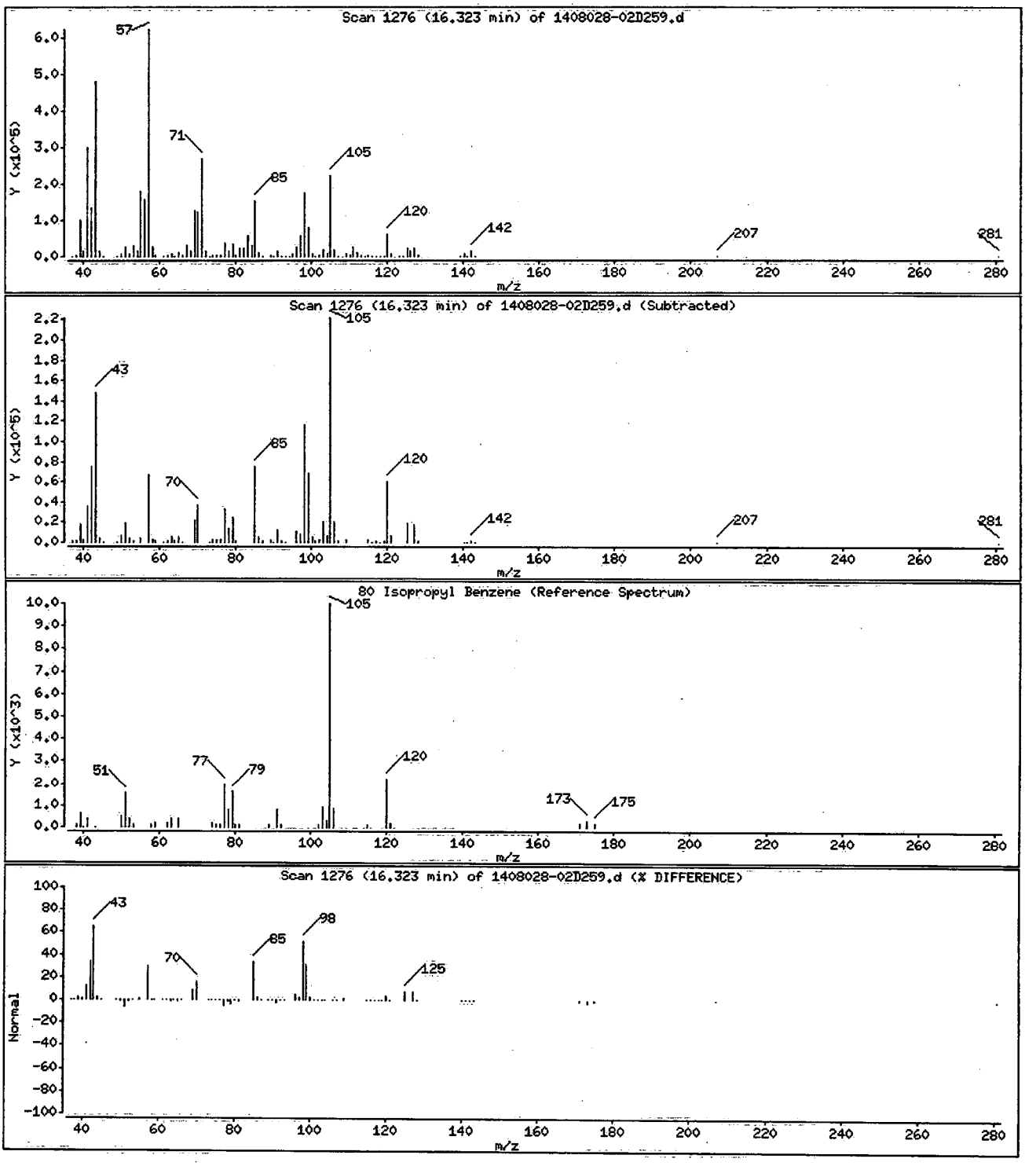
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

80 Isopropyl Benzene

Concentration: 3415.61 ug/Kg



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Data File: /chem/5972hp59.i/D4H15005A59.b/1408028-02D259.d

Date : 15-AUG-2014 16:42

Client ID: P001-DR0502-LW-01RE

Instrument: 5972hp59.i

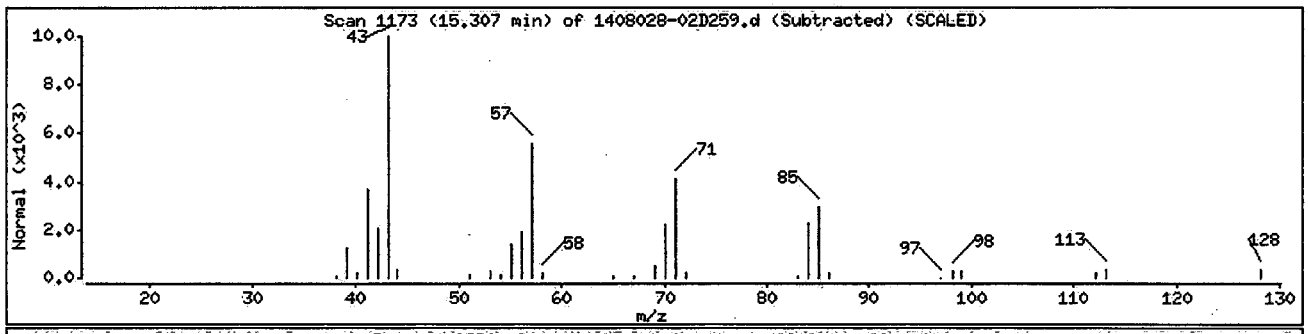
Sample Info: 1408028-02RE1:JAO

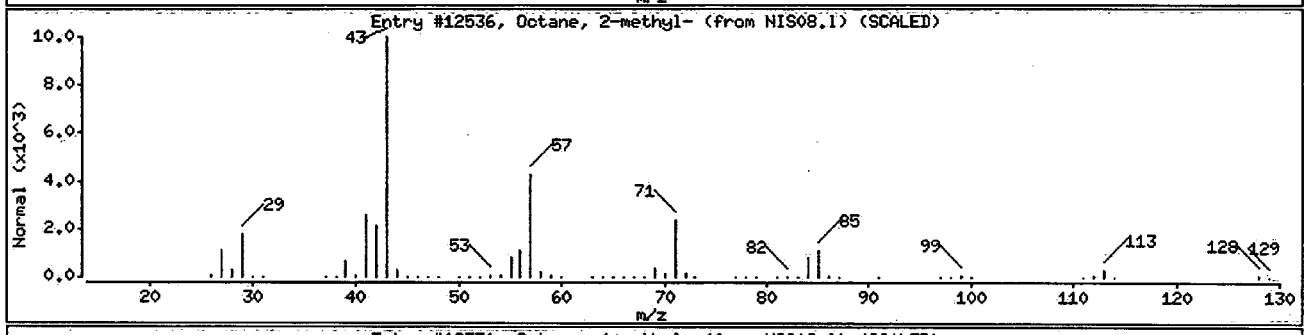
Operator: JAO

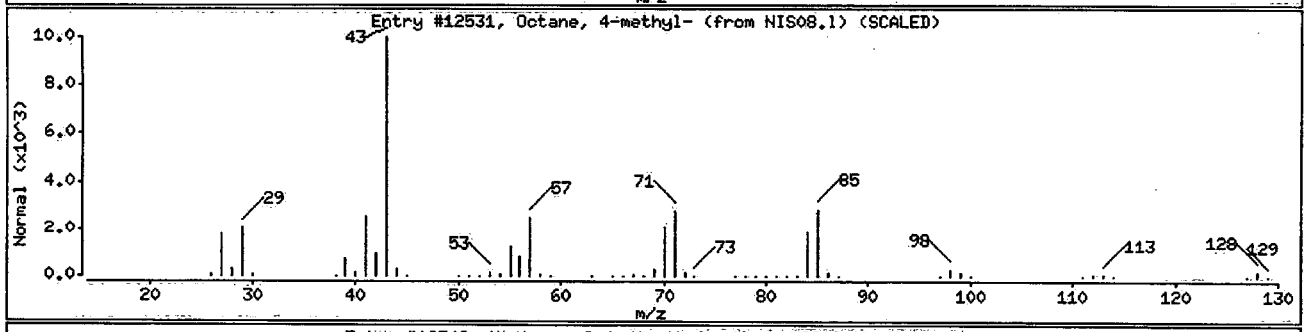
Column phase: SPB-624

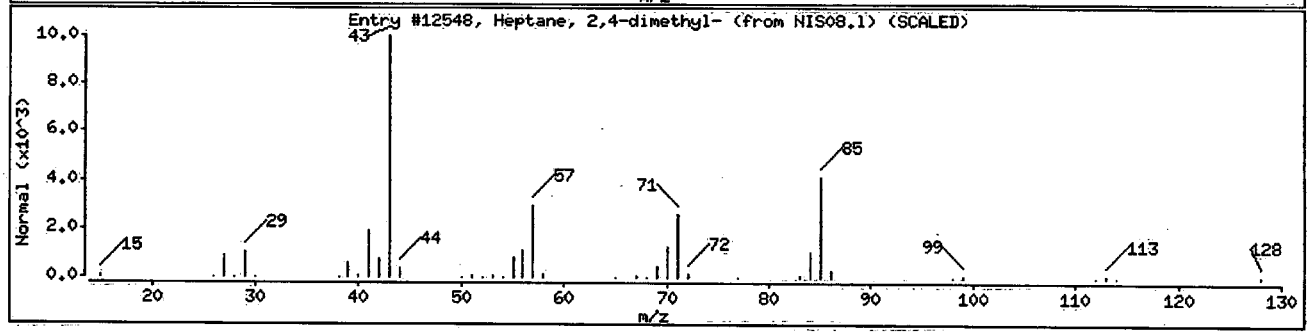
Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unk. Alkane						
Octane, 2-methyl-	3221-61-2	NIS08.l	12536	83	C9H20	128
Octane, 4-methyl-	2216-34-4	NIS08.l	12531	81	C9H20	128
Heptane, 2,4-dimethyl-	2213-23-2	NIS08.l	12548	64	C9H20	128









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Data File: /chem/5972hp59.i/D4H15005A59.b/1408028-02D259.d

Date : 15-AUG-2014 16:42

Client ID: P001-DR0502-LW-01RE

Instrument: 5972hp59.i

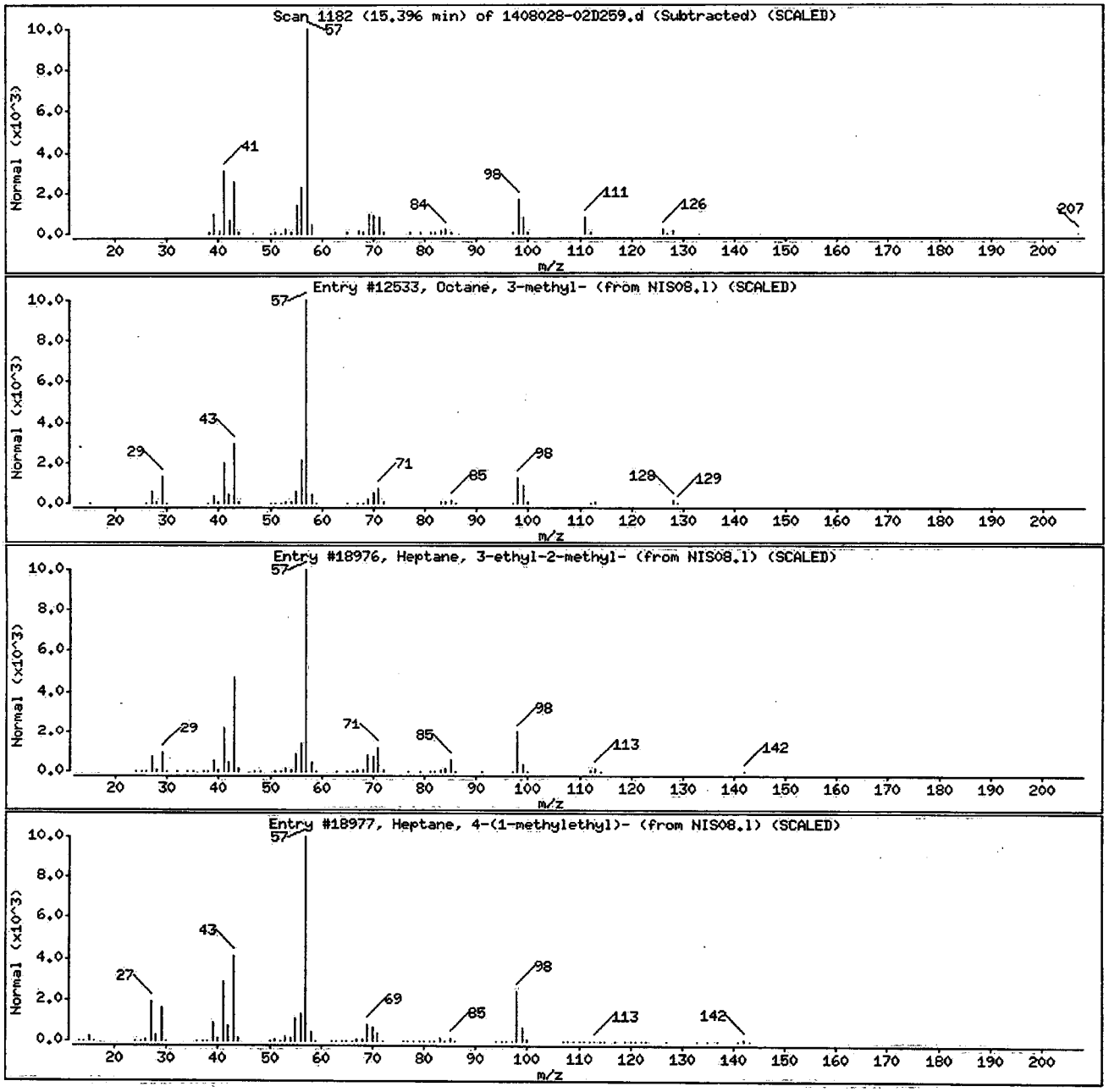
Sample Info: 1408028-02RE1:JAO

Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unk. Alkane						
Octane, 3-methyl-	2216-33-3	NIS08.l	12533	72	C9H20	128
Heptane, 3-ethyl-2-methyl-	14676-29-0	NIS08.l	18976	59	C10H22	142
Heptane, 4-(1-methylethyl)-	52896-87-4	NIS08.l	18977	59	C10H22	142



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Data File: /chem/5972hp59.i/D4H15005A59.b/1408028-02D259.d

Date : 15-AUG-2014 16:42

Client ID: P001-DR0502-LW-01RE

Instrument: 5972hp59.i

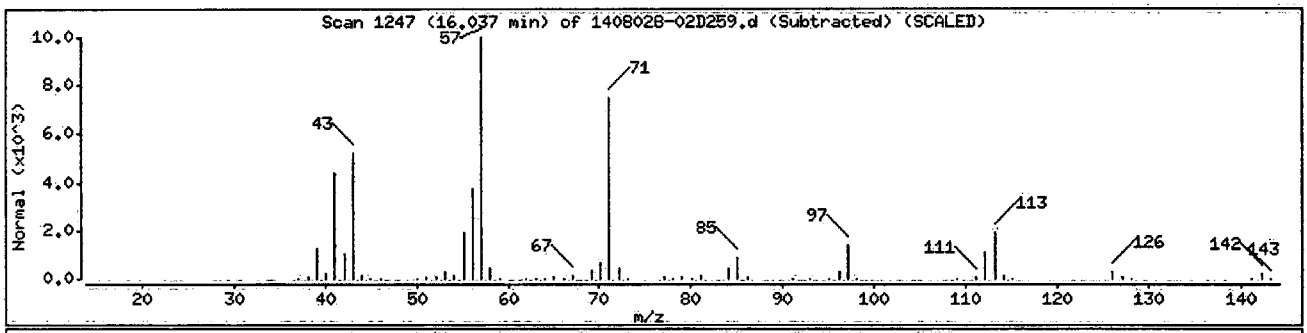
Sample Info: 1408028-02RE1:JAO

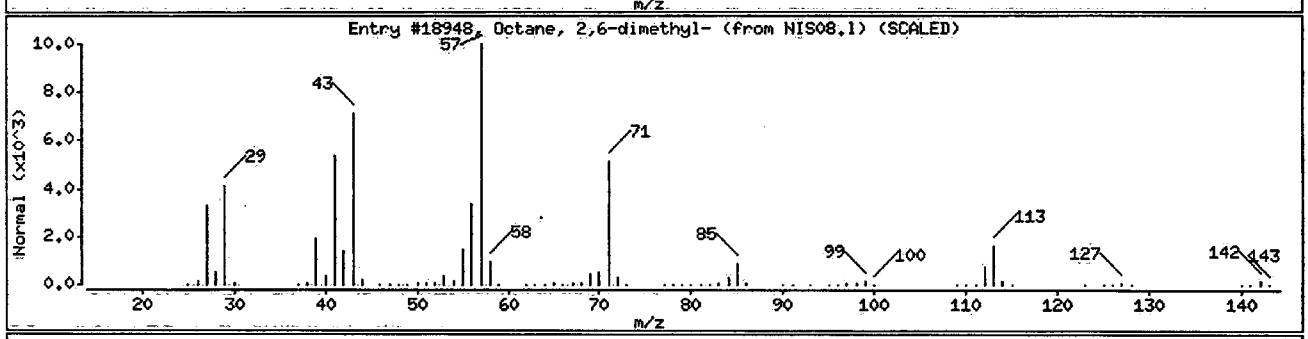
Operator: JAO

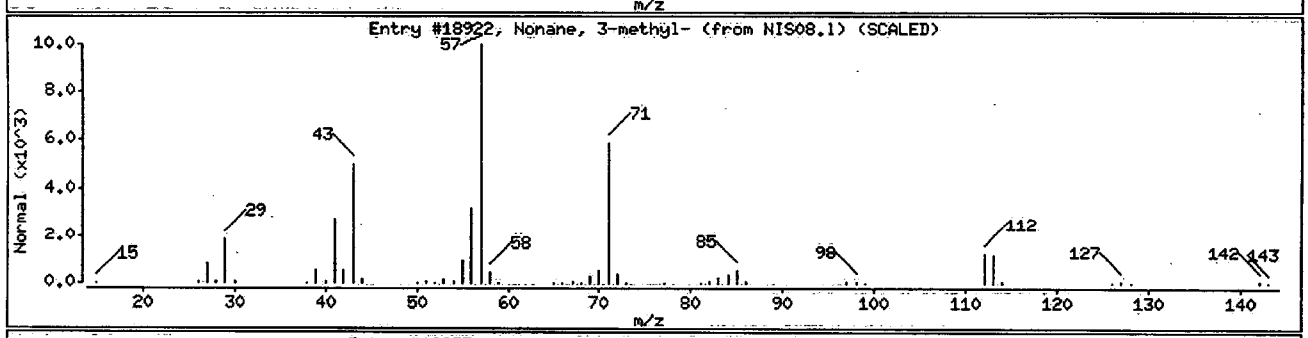
Column phase: SPB-624

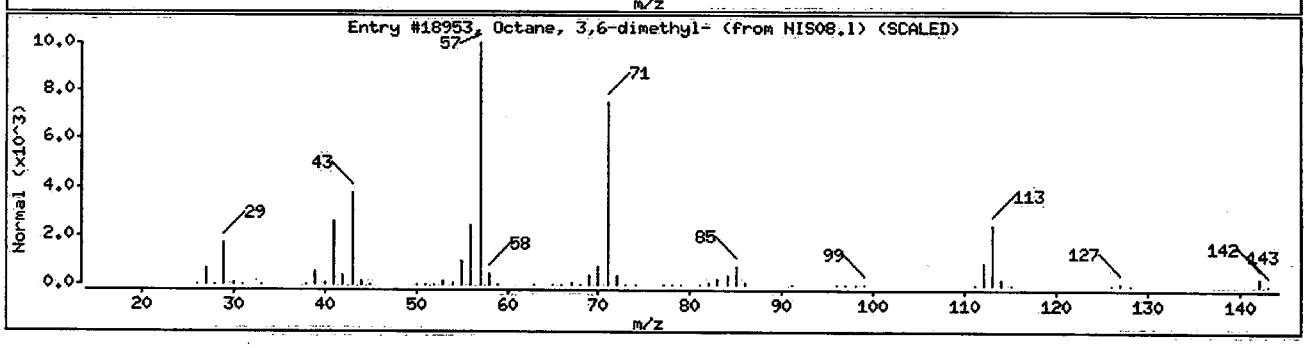
Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unk. Alkane						
Octane, 2,6-dimethyl-	2051-30-1	NIS08.l	18948	91	C10H22	142
Nonane, 3-methyl-	5911-04-6	NIS08.l	18922	90	C10H22	142
Octane, 3,6-dimethyl-	15869-94-0	NIS08.l	18953	90	C10H22	142









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Data File: /chem/5972hp59.i/D4H15005A59.b/1408028-02D259.d

Date : 15-AUG-2014 16:42

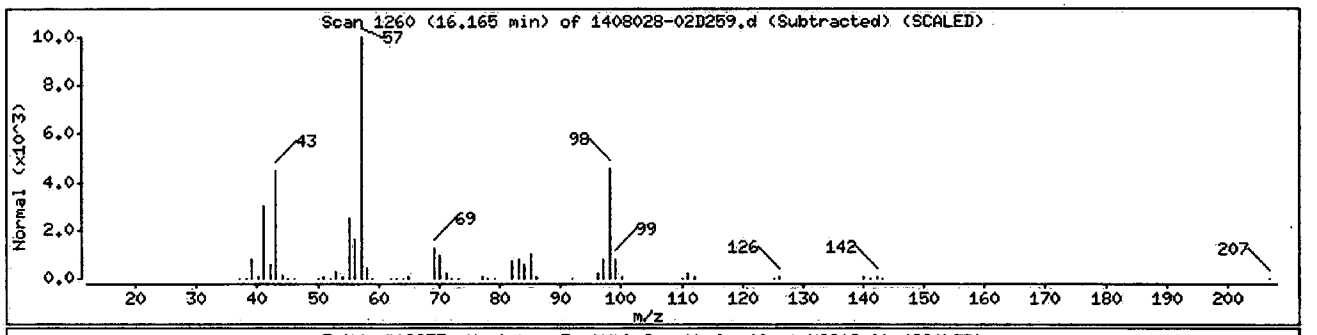
Client ID: P001-DR0502-LW-01RE | Instrument: 5972hp59.i

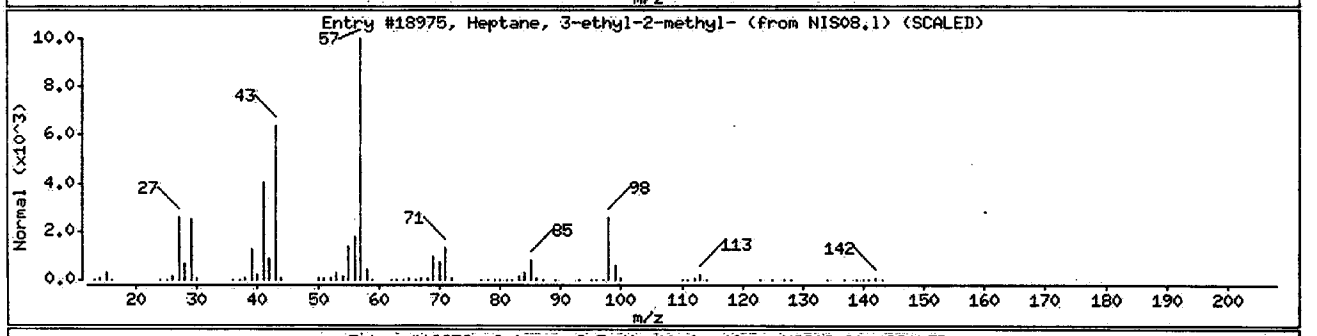
Sample Info: 1408028-02RE1:JAO

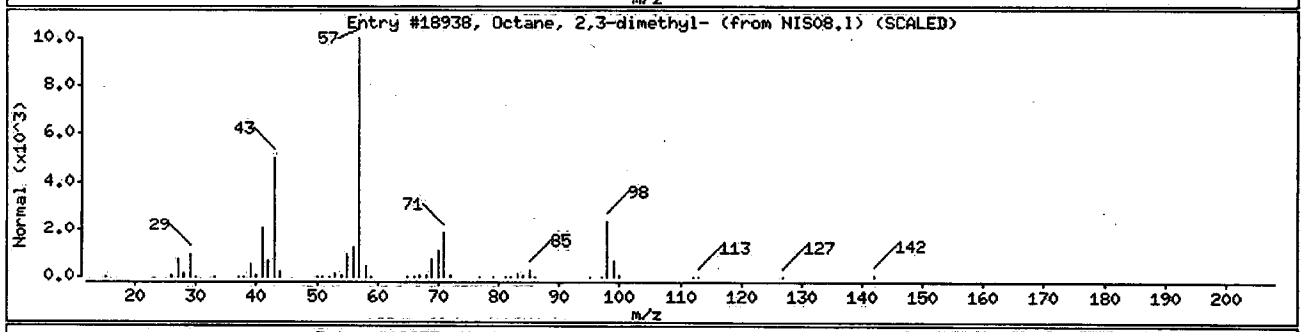
Operator: JAO

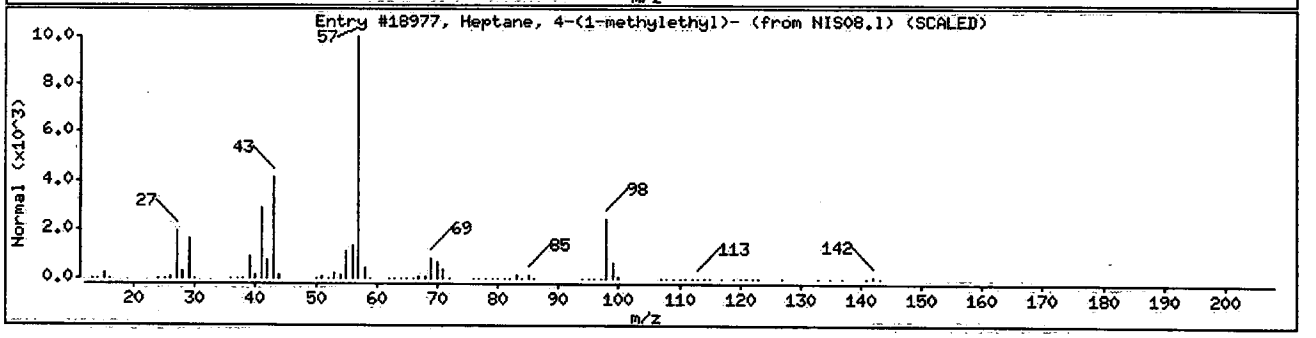
Column phase: SPB-624 | Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unk. Alkane						
Heptane, 3-ethyl-2-methyl-	14676-29-0	NIS08.1	18975	87	C10H22	142
Octane, 2,3-dimethyl-	7146-60-3	NIS08.1	18938	52	C10H22	142
Heptane, 4-(1-methylethyl)-	52896-87-4	NIS08.1	18977	50	C10H22	142









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Data File: /chem/5972hp59.i/D4H15005A59.b/1408028-02D259.d

Date : 15-AUG-2014 16:42

Client ID: P001-DR0502-LW-01RE

Instrument: 5972hp59.i

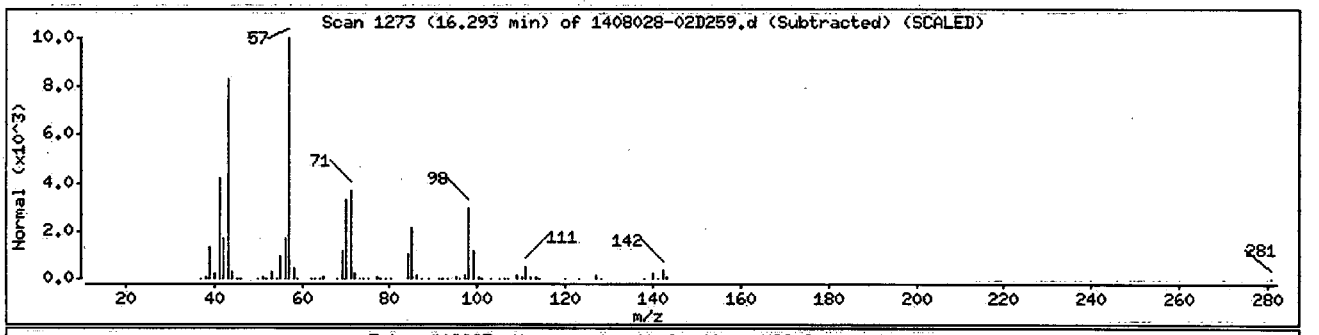
Sample Info: 1408028-02RE1:JAO

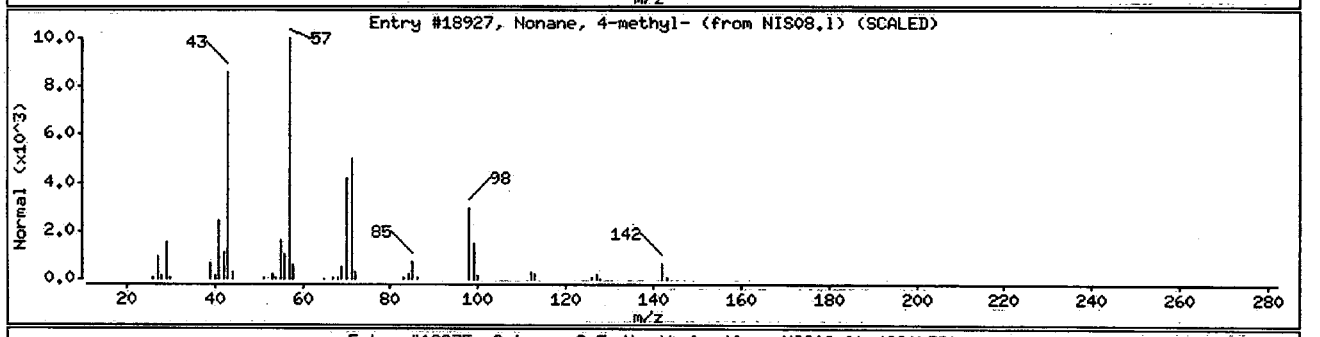
Operator: JAO

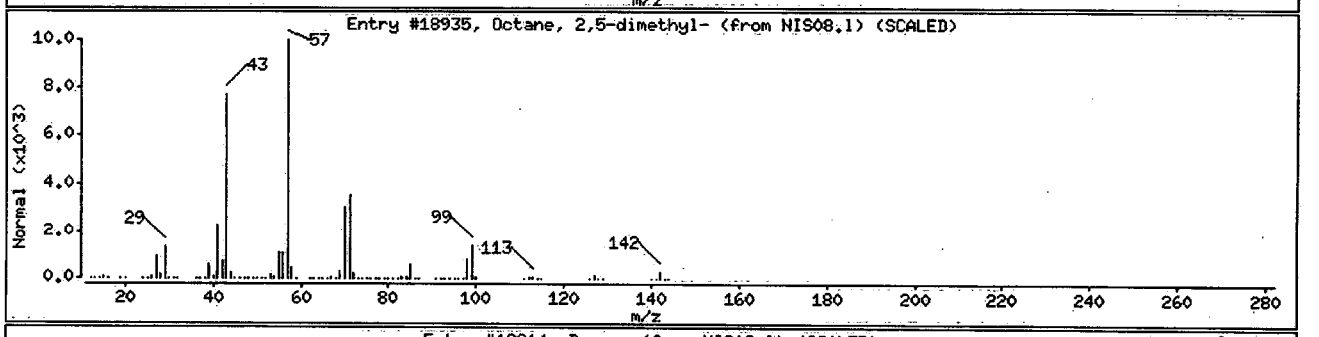
Column phase: SPB-624

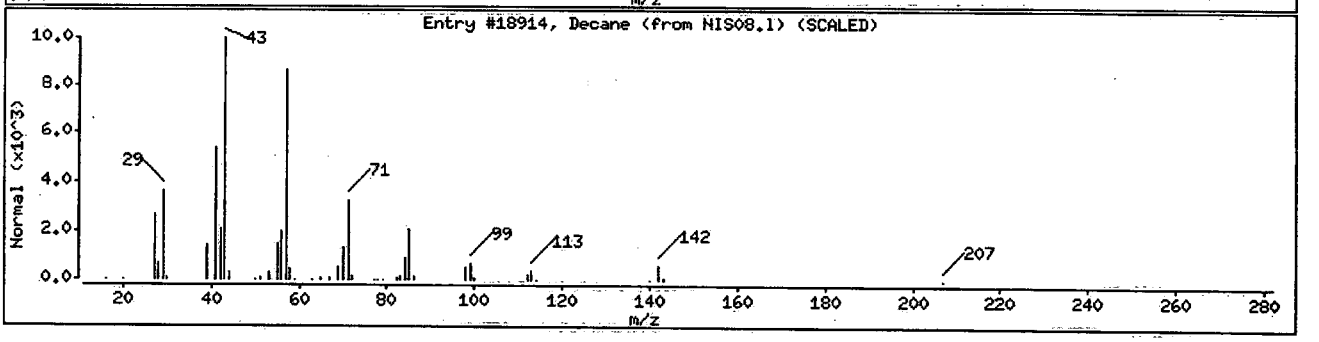
Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unk. Alkane						
Nonane, 4-methyl-	17301-94-9	NIS08.l	18927	62	C10H22	142
Octane, 2,5-dimethyl-	15869-89-3	NIS08.l	18935	60	C10H22	142
Decane	124-18-5	NIS08.l	18914	53	C10H22	142









8/18/2014

Data File: /chem/5972hp59.i/D4H15005A59.b/1408028-02D259.d

Date : 15-AUG-2014 16:42

Client ID: P001-DR0502-LW-01RE

Instrument: 5972hp59.i

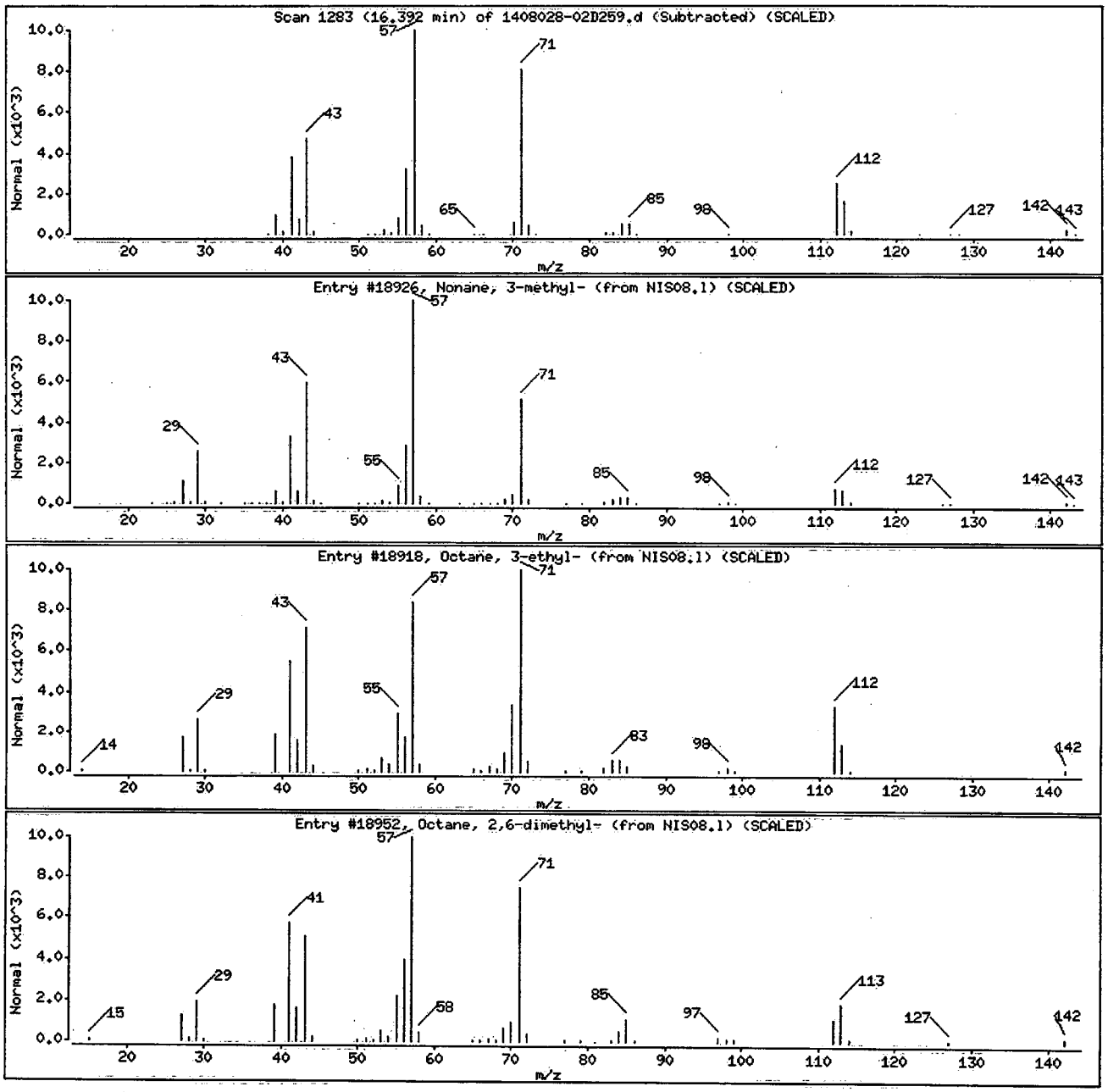
Sample Info: 1408028-02RE1:JAO

Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unk. Alkane						
Nonane, 3-methyl-	5911-04-6	NIS08.l	18926	91	C10H22	142
Octane, 3-ethyl-	5881-17-4	NIS08.l	18918	72	C10H22	142
Octane, 2,6-dimethyl-	2051-30-1	NIS08.l	18952	72	C10H22	142



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Data File: /chem/5972hp59.i/D4H15005A59.b/1408028-02D259.d

Date : 15-AUG-2014 16:42

Client ID: P001-DR0502-LW-01RE

Instrument: 5972hp59.i

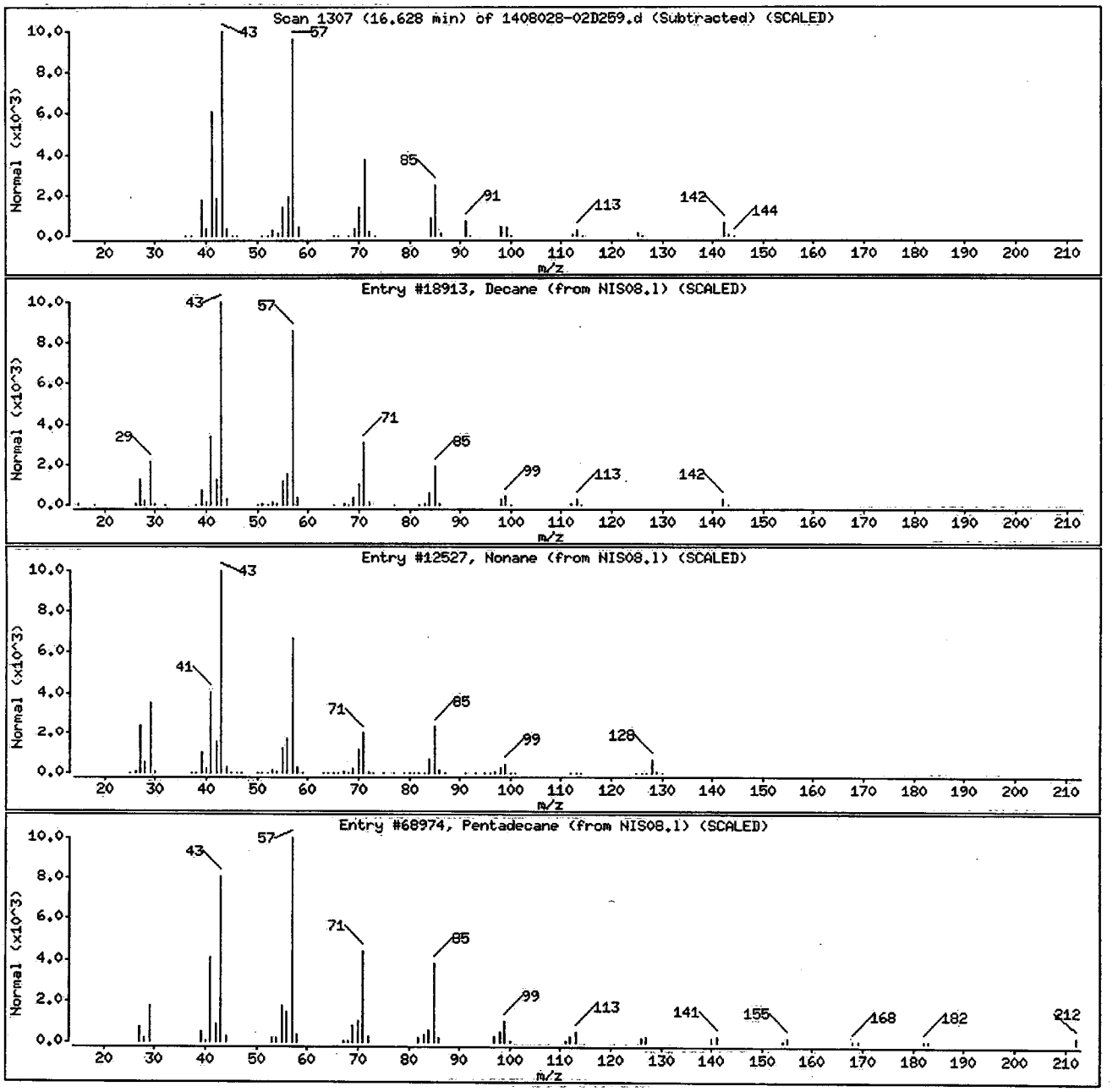
Sample Info: 1408028-02RE1:JAO

Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unk. Alkane						
Decane	124-18-5	NIS08.l	18913	97	C10H22	142
Nonane	111-84-2	NIS08.l	12527	83	C9H20	128
Pentadecane	629-62-9	NIS08.l	68974	83	C15H32	212



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Data File: /chem/5972hp59.i/D4H15005A59.b/1408028-02D259.d

Date : 15-AUG-2014 16:42

Client ID: P001-DR0502-LW-01RE

Instrument: 5972hp59.i

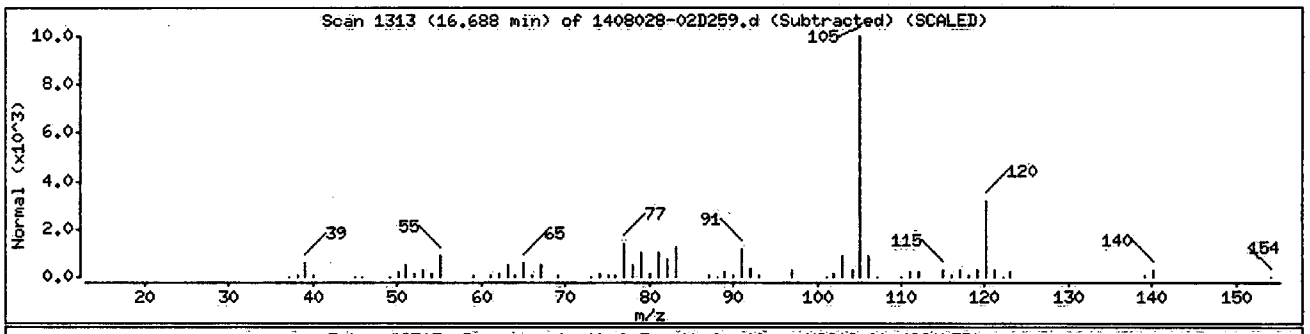
Sample Info: 1408028-02RE1:JAO

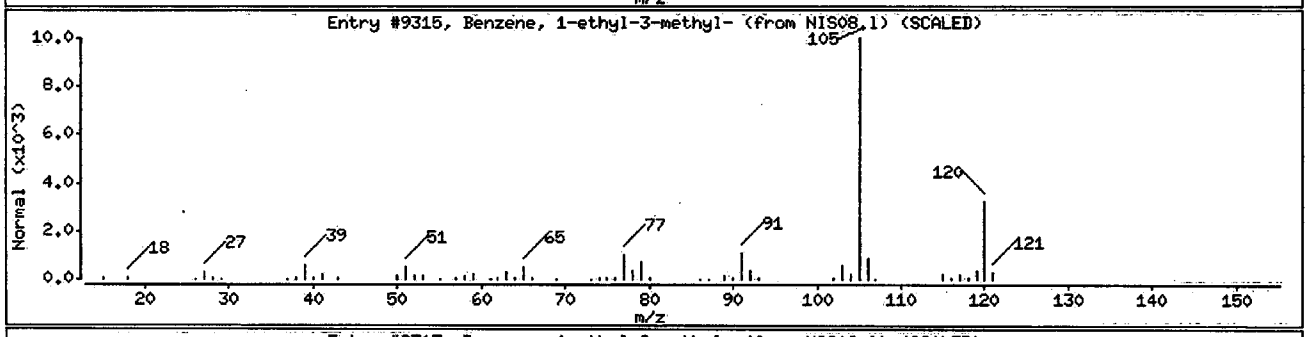
Operator: JAO

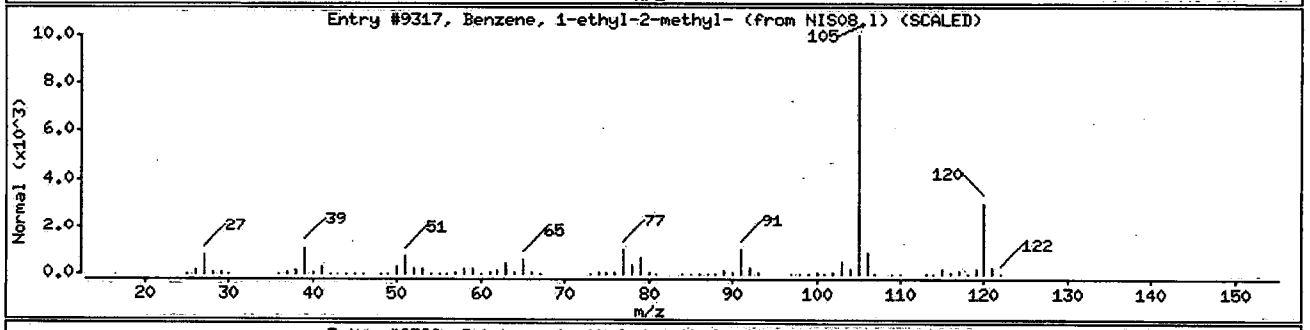
Column phase: SPB-624

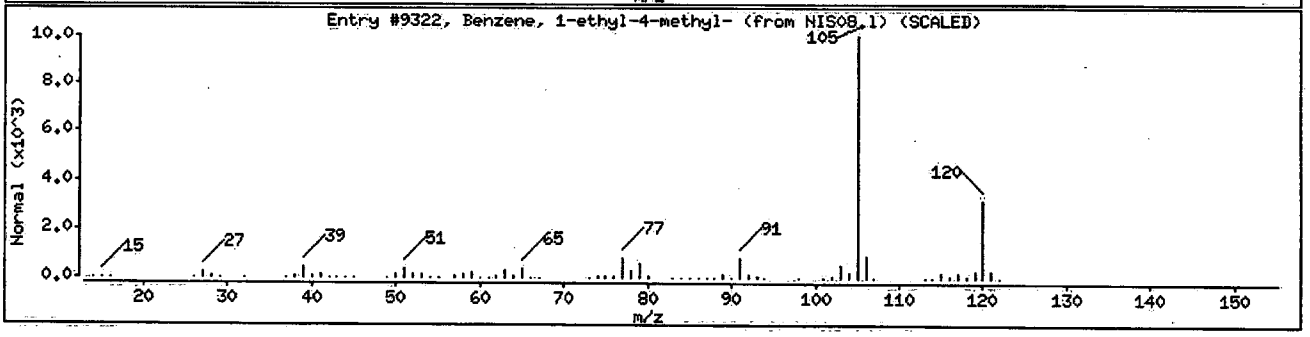
Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1-ethyl-3-methyl-	620-14-4	NIS08.l	9315	94	C9H12	120
Benzene, 1-ethyl-2-methyl-	611-14-3	NIS08.l	9317	94	C9H12	120
Benzene, 1-ethyl-4-methyl-	622-96-8	NIS08.l	9322	81	C9H12	120









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Data File: /chem/5972hp59.i/D4H15005A59.b/1408028-02D259.d

Date : 15-AUG-2014 16:42

Client ID: P001-DR0502-LW-01RE

Instrument: 5972hp59.i

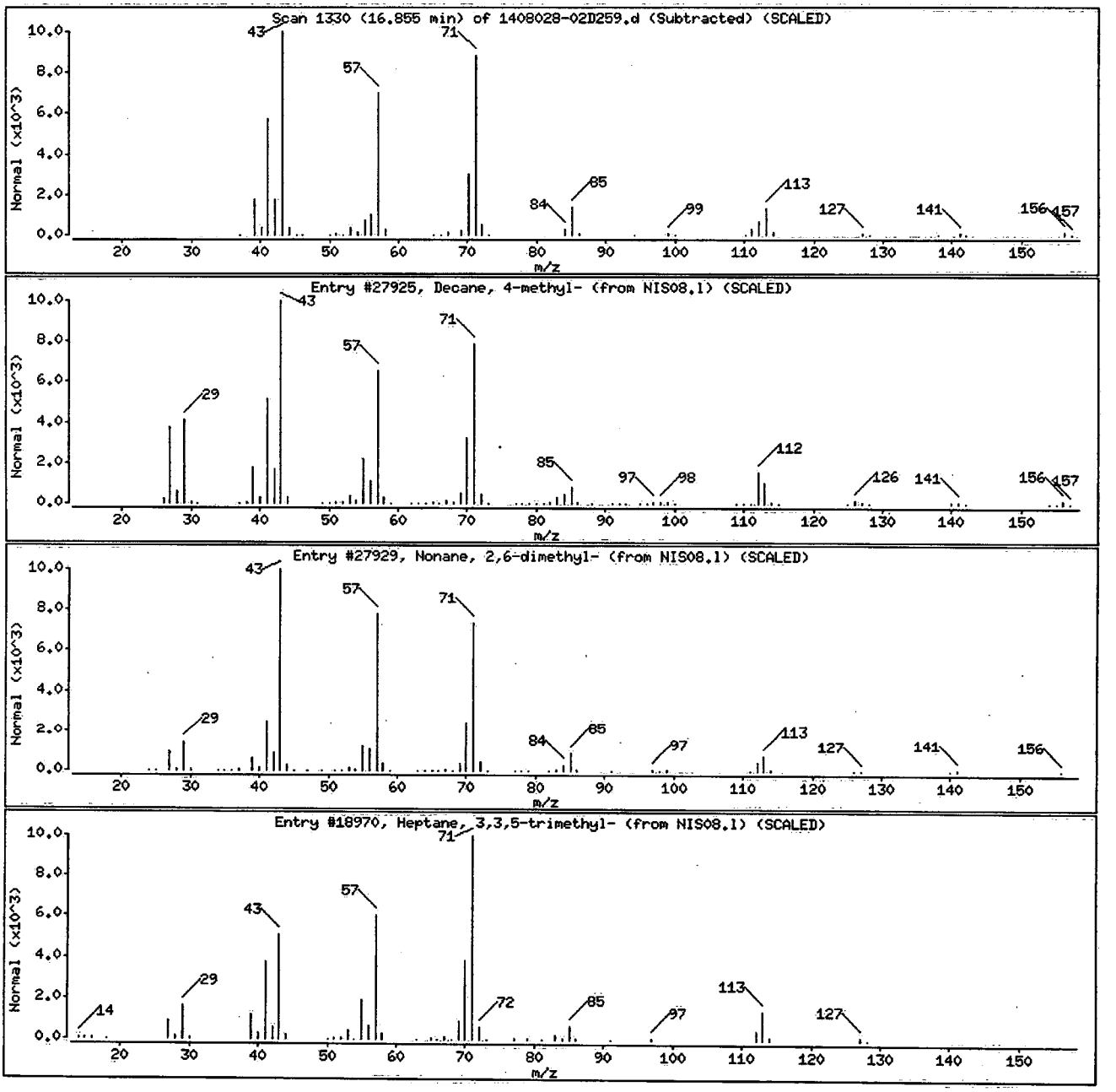
Sample Info: 1408028-02RE1:JAO

Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unk. Alkane						
Decane, 4-methyl-	2847-72-5	NIS08.1	27925	91	C11H24	156
Nonane, 2,6-dimethyl-	17302-28-2	NIS08.1	27929	83	C11H24	156
Heptane, 3,3,5-trimethyl-	7154-80-5	NIS08.1	18970	83	C10H22	142



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Data File: /chem/5972hp59.i/D4H15005A59.b/1408028-02D259.d

Date : 15-AUG-2014 16:42

Client ID: P001-DR0502-LW-01RE

Instrument: 5972hp59.i

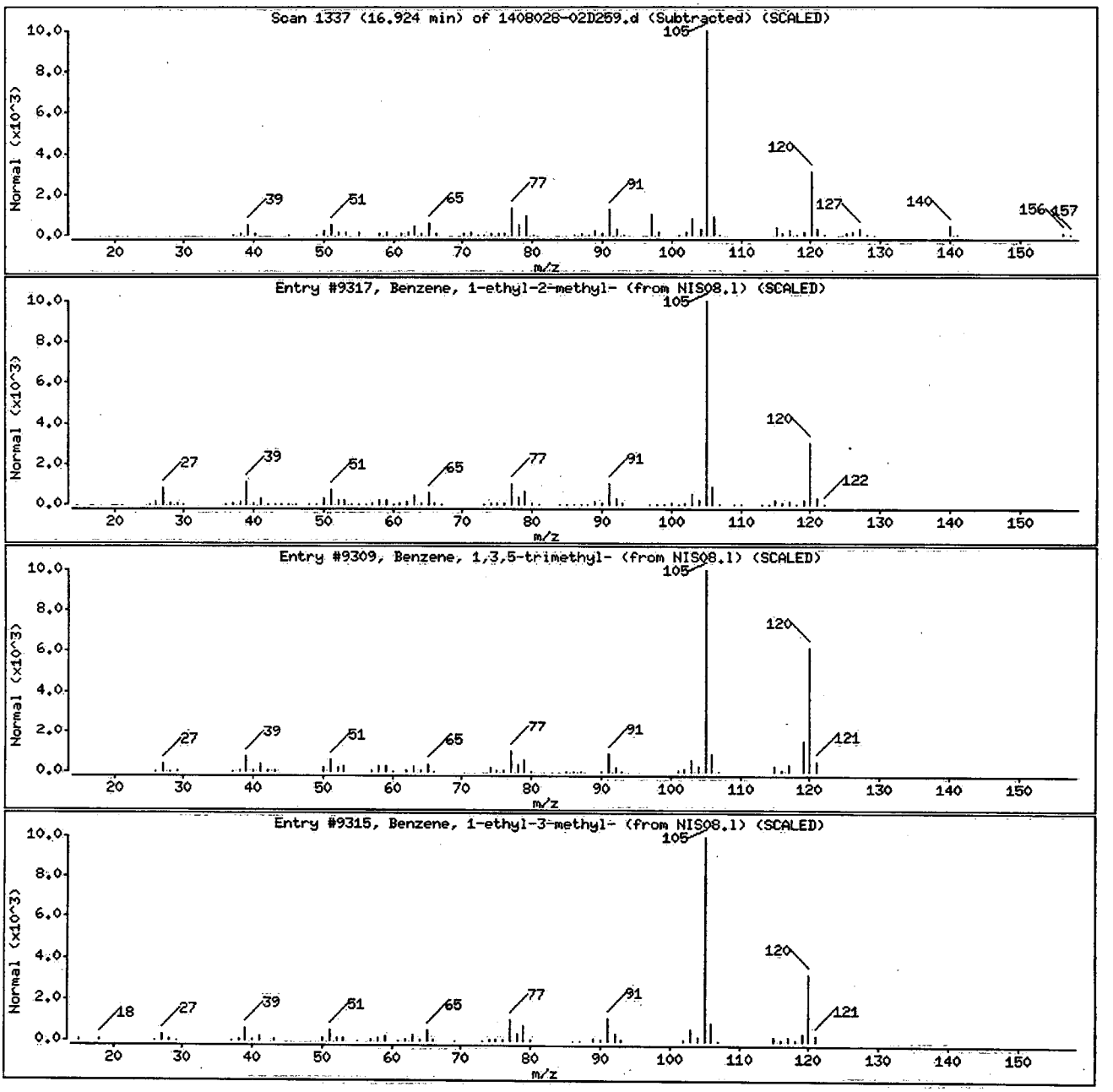
Sample Info: 1408028-02RE1:JAO

Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1-ethyl-2-methyl-	611-14-3	NIS08.1	9317	93	C9H12	120
Benzene, 1,3,5-trimethyl-	108-67-8	NIS08.1	9309	81	C9H12	120
Benzene, 1-ethyl-3-methyl-	620-14-4	NIS08.1	9315	81	C9H12	120



8/18/2014

Data File: /chem/5972hp59.i/D4H15005A59.b/1408028-02D259.d

Date : 15-AUG-2014 16:42

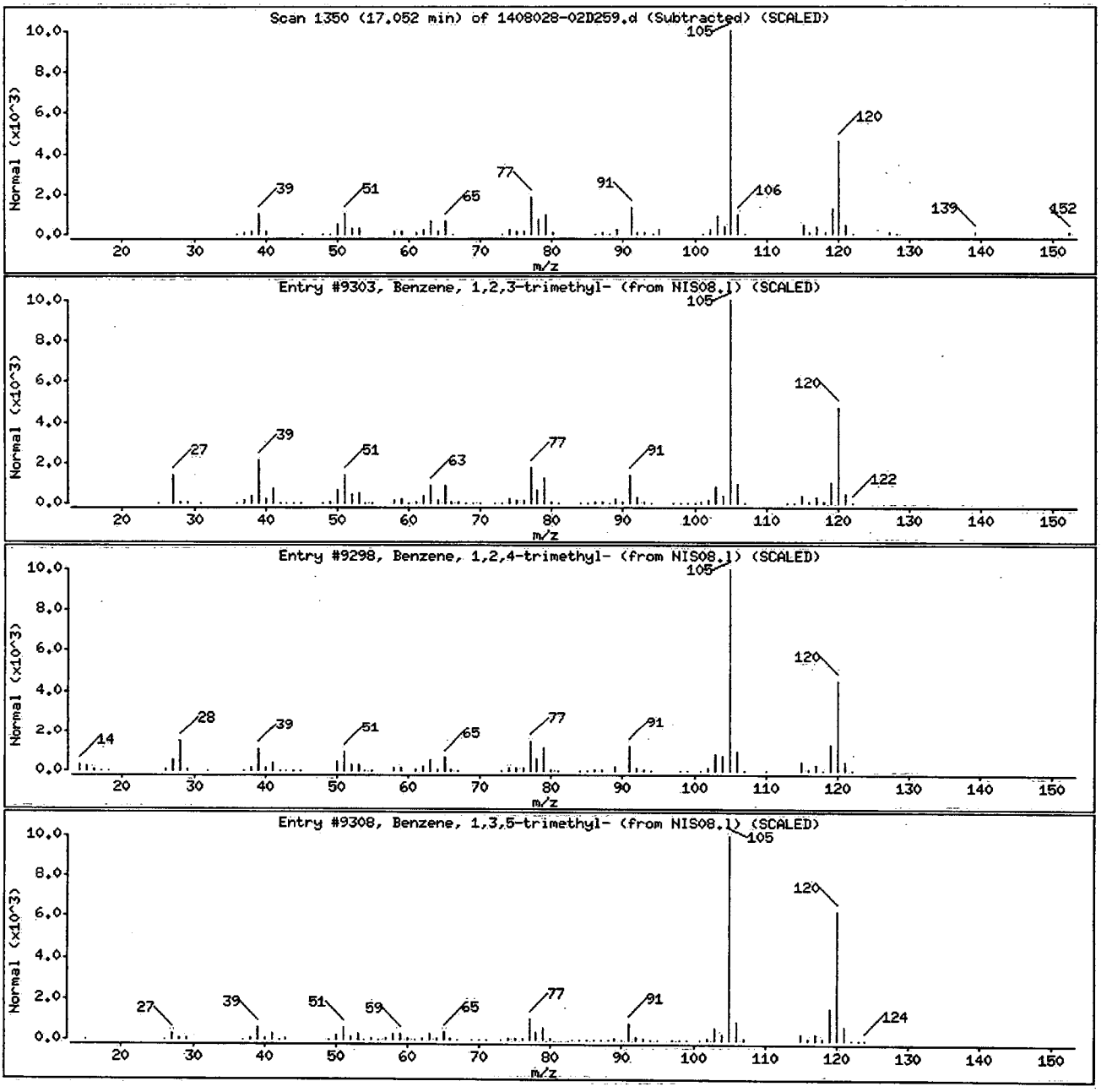
Client ID: P001-DR0502-LW-01RE | Instrument: 5972hp59.i

Sample Info: 1408028-02RE1:JAO

Operator: JAO

Column phase: SPB-624 | Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1,2,3-trimethyl-	526-73-8	NIS08.1	9303	95	C9H12	120
Benzene, 1,2,4-trimethyl-	95-63-6	NIS08.1	9298	94	C9H12	120
Benzene, 1,3,5-trimethyl-	108-67-8	NIS08.1	9308	91	C9H12	120



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Data File: /chem/5972hp59.i/D4H15005A59.b/1408028-02D259.d

Date : 15-AUG-2014 16:42

Client ID: P001-DR0502-LW-01RE

Instrument: 5972hp59.i

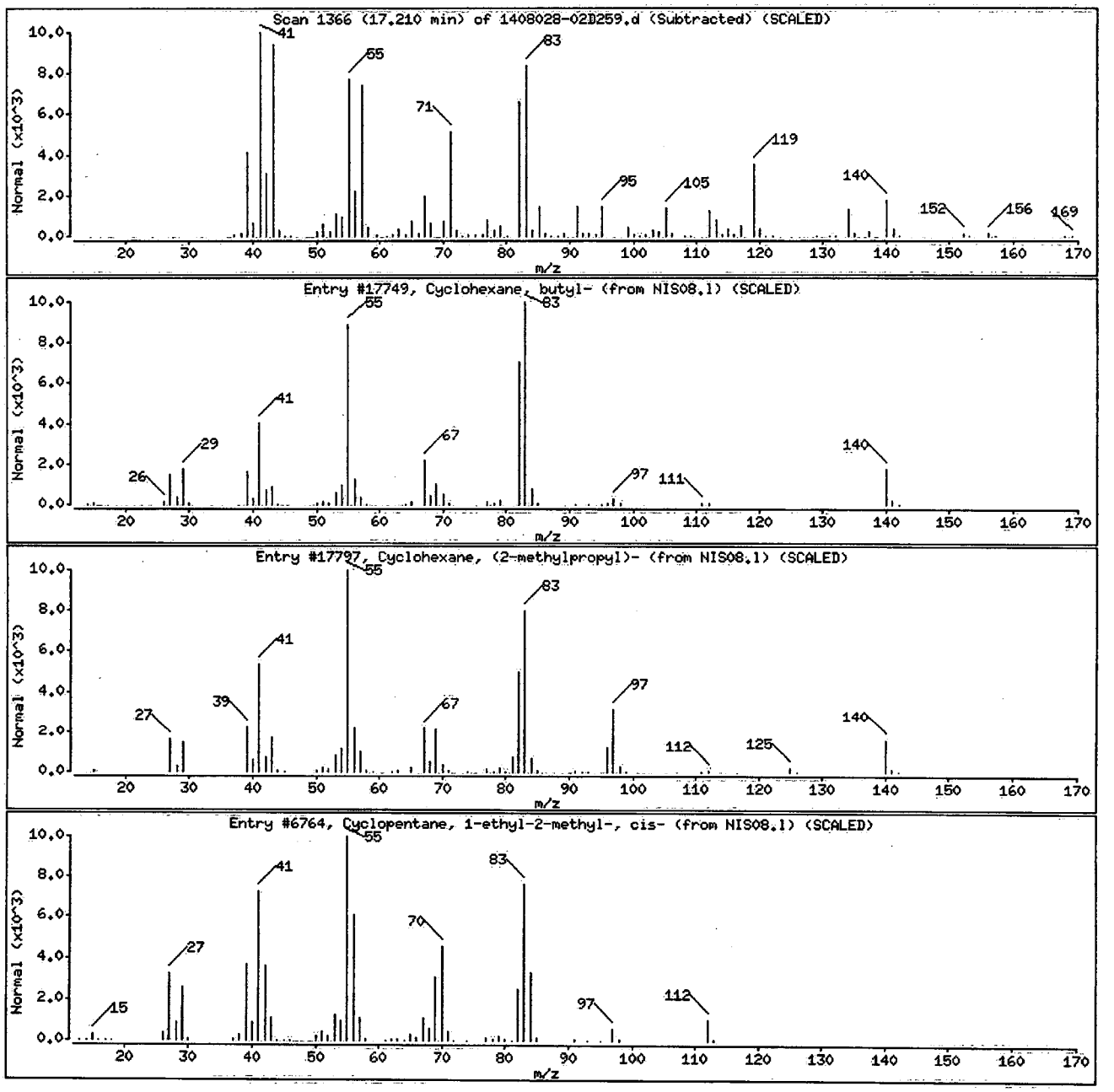
Sample Info: 1408028-02RE1:JAO

Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unk. Alkane						
Cyclohexane, butyl-	1678-93-9	NIS08.l	17749	49	C10H20	140
Cyclohexane, (2-methylpropyl)-	1678-98-4	NIS08.l	17797	47	C10H20	140
Cyclopentane, 1-ethyl-2-methyl-, cis-	930-89-2	NIS08.l	6764	35	C8H16	112



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Data File: /chem/5972hp59.i/D4H15005A59.b/1408028-02D259.d

Date : 15-AUG-2014 16:42

Client ID: P001-DR0502-LW-01RE

Instrument: 5972hp59.i

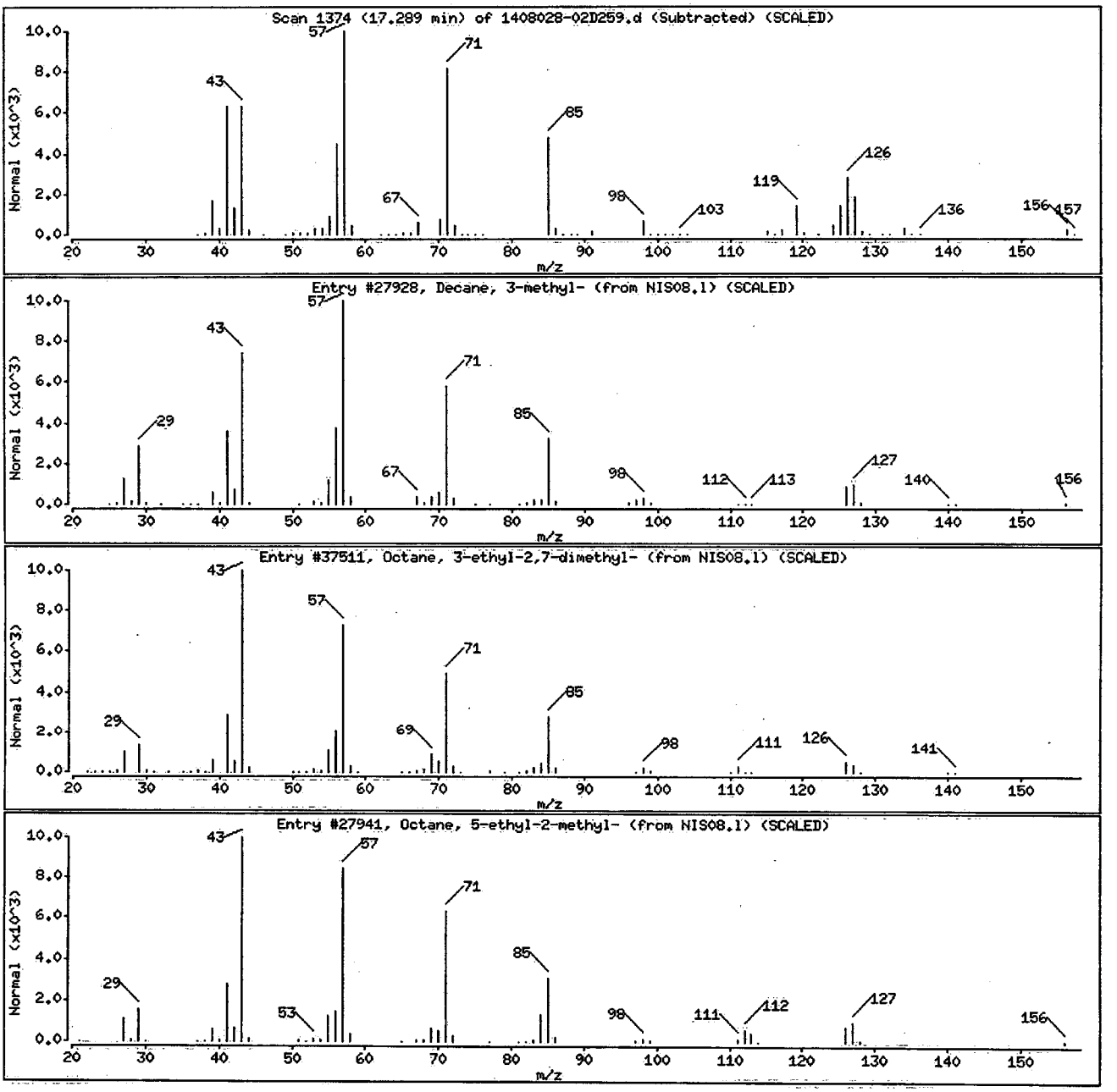
Sample Info: 1408028-02RE1:JAO

Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unk. Alkane						
Decane, 3-methyl-	13151-34-3	NIS08.1	27928	87	C11H24	156
Octane, 3-ethyl-2,7-dimethyl-	62183-55-5	NIS08.1	37511	53	C12H26	170
Octane, 5-ethyl-2-methyl-	62016-18-6	NIS08.1	27941	53	C11H24	156



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Data File: /chem/5972hp59.i/D4H15005A59.b/1408028-02D259.d

Date : 15-AUG-2014 16:42

Client ID: P001-DR0502-LW-01RE

Instrument: 5972hp59.i

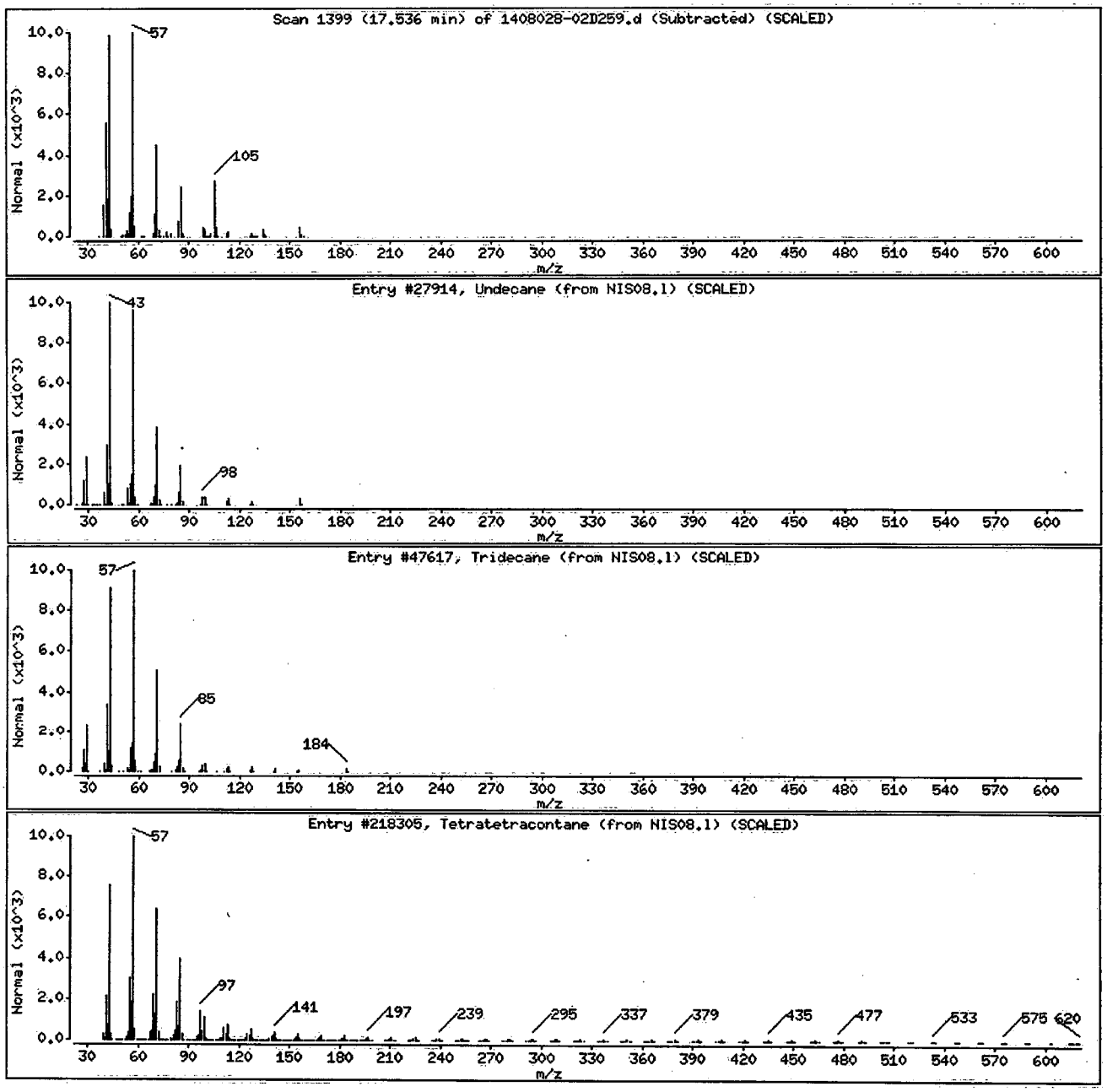
Sample Info: 1408028-02RE1:JAO

Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unk. Alkane						
Undecane	1120-21-4	NIS08.l	27914	93	C11H24	156
Tridecane	629-50-5	NIS08.l	47617	59	C13H28	184
Tetratetracontane	7098-22-8	NIS08.l	218305	59	C44H90	619



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Data File: /chem/5972hp59.i/D4H15005A59.b/1408028-02D259.d

Date : 15-AUG-2014 16:42

Client ID: P001-DR0502-LW-01RE

Instrument: 5972hp59.i

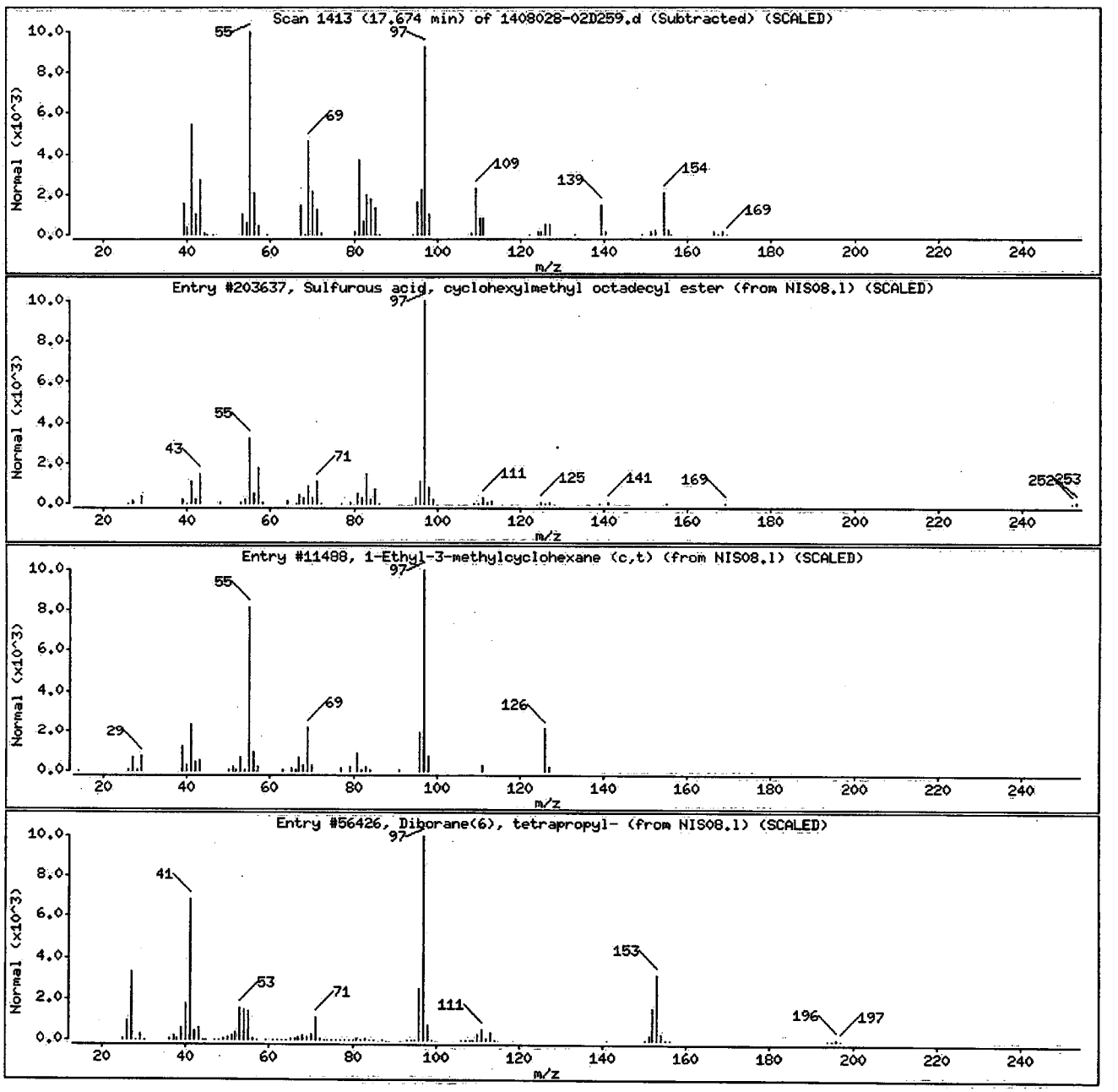
Sample Info: 1408028-02RE1:JAO

Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Sulfurous acid, cyclohexylmethyl octadec	1000309-22-6	NIS08.l	203637	47	C25H50O3S	430
1-Ethyl-3-methylcyclohexane (c,t)	3728-55-0	NIS08.l	11488	38	C9H18	126
Diborane(6), tetrapropyl-	22784-01-6	NIS08.l	56426	38	C12H30B2	196



Rolder Hani 8/18/2014

Data File: /chem/5972hp59.i/D4H15005A59.b/1408028-02D259.d

Date : 15-AUG-2014 16:42

Client ID: P001-DR0502-LW-01RE

Instrument: 5972hp59.i

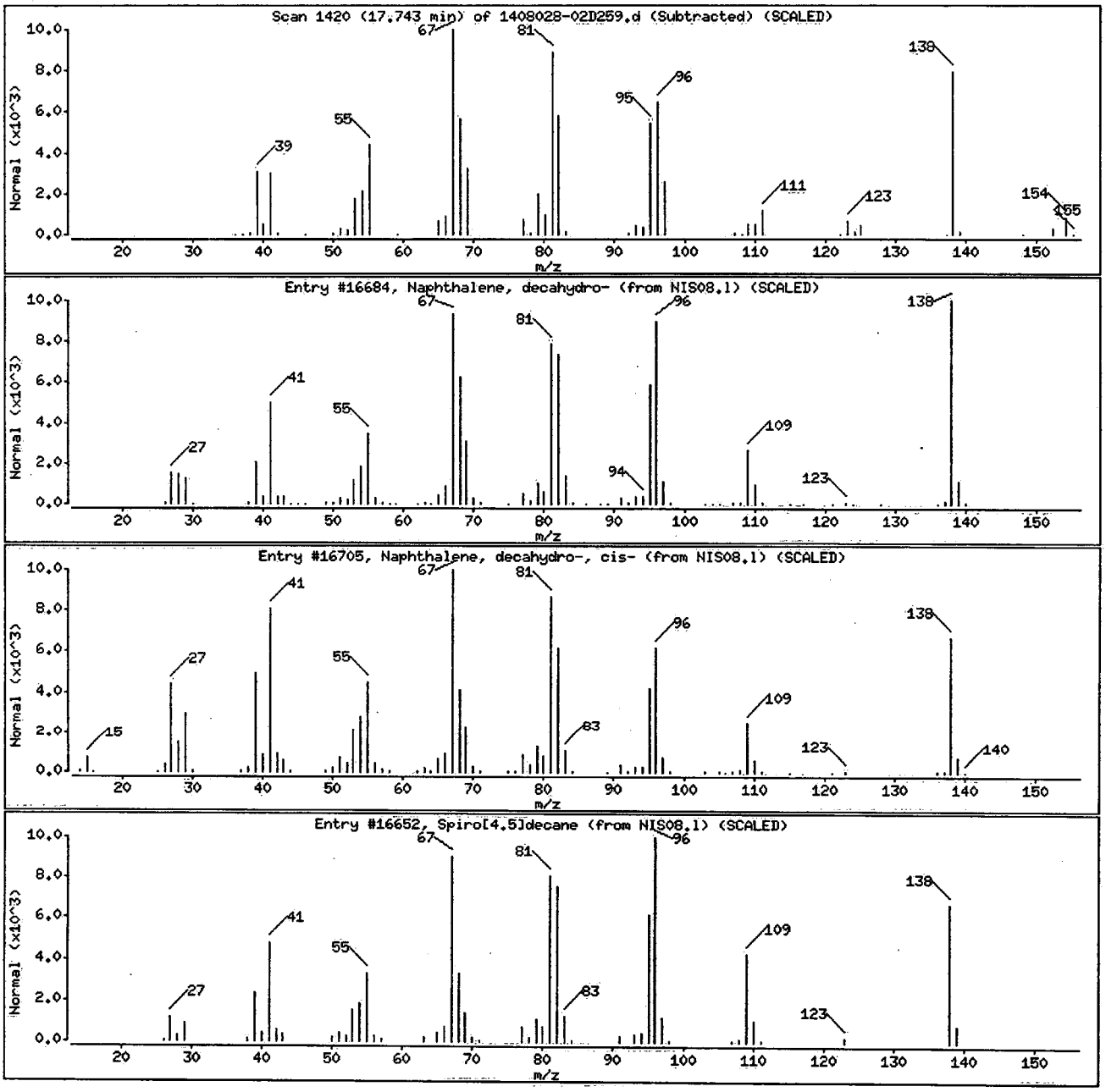
Sample Info: 1408028-02RE1:JAO

Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Naphthalene, decahydro-	91-17-8	NIS08.l	16684	91	C10H18	138
Naphthalene, decahydro-, cis-	493-01-6	NIS08.l	16705	87	C10H18	138
Spiro[4.5]decane	176-63-6	NIS08.l	16652	87	C10H18	138



Roldan Hani 8/18/2014

Data File: /chem/5972hp59.i/D4H15005A59.b/1408028-02D259.d

Date : 15-AUG-2014 16:42

Client ID: P001-DR0502-LW-01RE

Instrument: 5972hp59.i

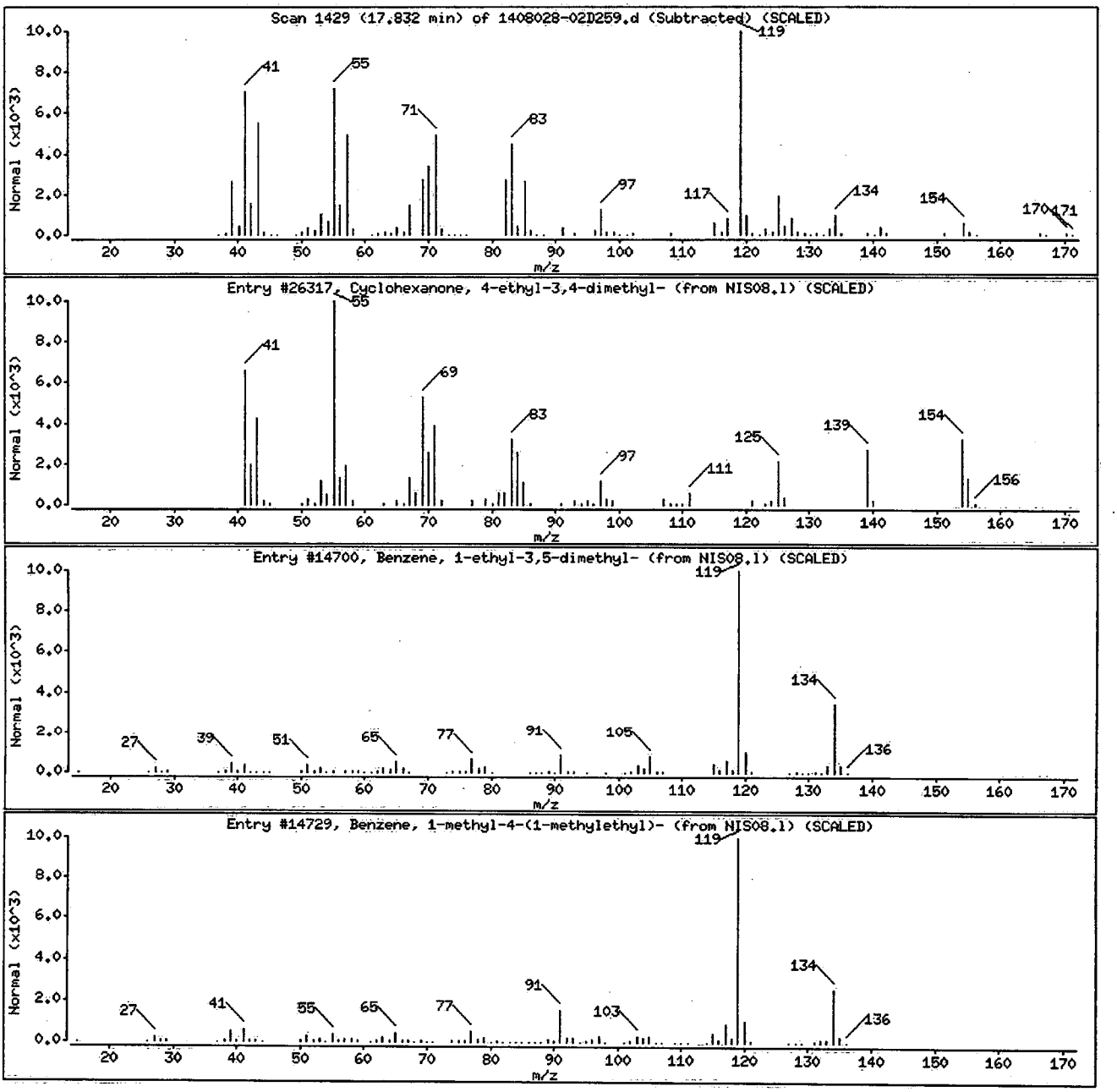
Sample Info: 1408028-02RE1:JAO

Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Cyclohexanone, 4-ethyl-3,4-dimethyl-	17429-42-4	NIS08.l	26317	38	C10H18O	154
Benzene, 1-ethyl-3,5-dimethyl-	934-74-7	NIS08.l	14700	25	C10H14	134
Benzene, 1-methyl-4-(1-methylethyl)-	99-87-6	NIS08.l	14729	25	C10H14	134



Roldan Hani 8/18/2014

Data File: /chem/5972hp59.i/D4H15005A59.b/1408028-02D259.d

Date : 15-AUG-2014 16:42

Client ID: P001-DR0502-LW-01RE

Instrument: 5972hp59.i

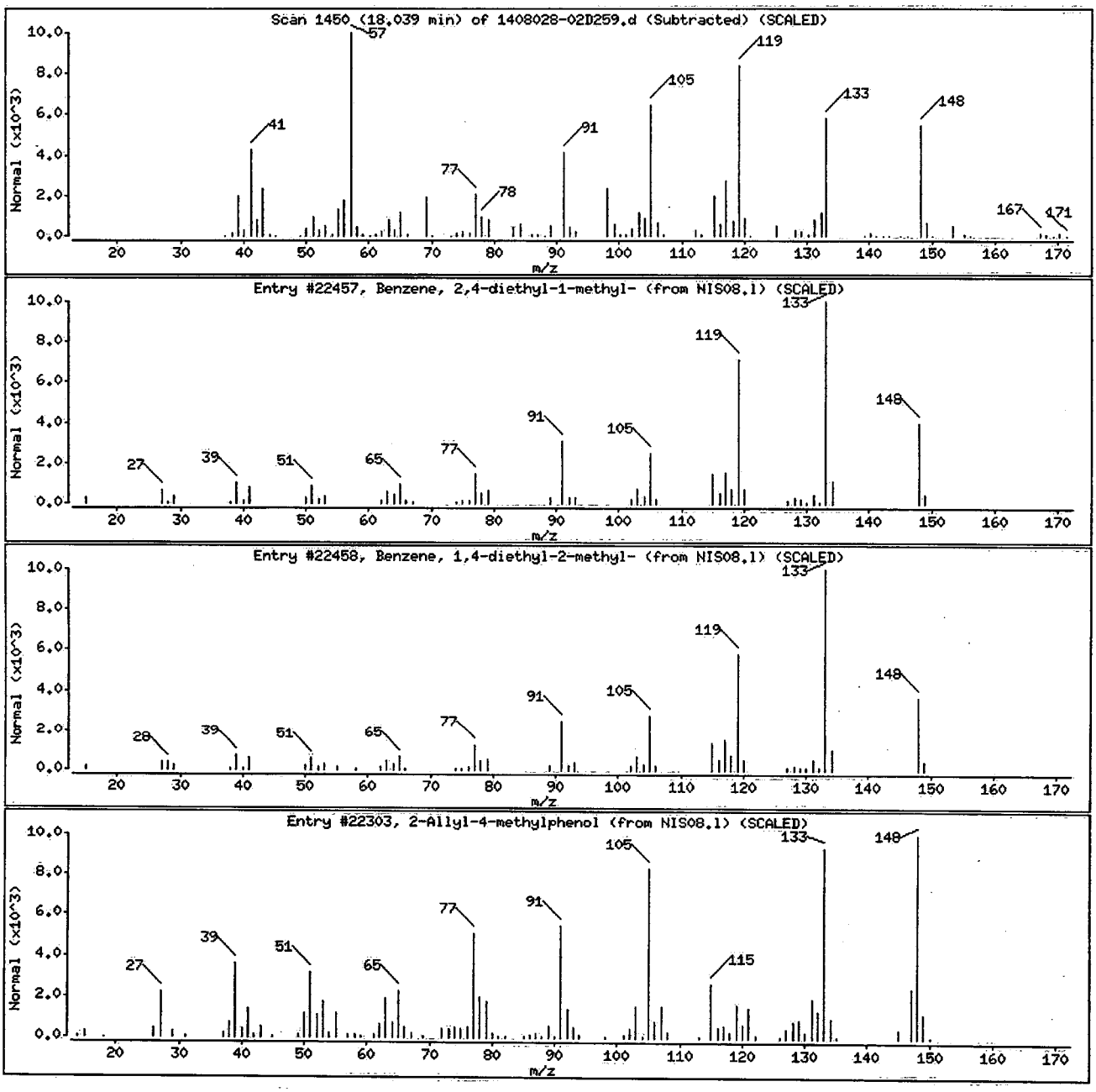
Sample Info: 1408028-02RE1:JAO

Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Benzene, 2,4-diethyl-1-methyl-	1758-85-6	NIS08.l	22457	64	C11H16	148
Benzene, 1,4-diethyl-2-methyl-	13632-94-5	NIS08.l	22458	64	C11H16	148
2-Allyl-4-methylphenol	6628-06-4	NIS08.l	22303	43	C10H12O	148



Roldan Hani 8/18/2014

Data File: /chem/5972hp59.i/D4H15005A59.b/1408028-02D259.d

Date : 15-AUG-2014 16:42

Client ID: P001-DR0502-LW-01RE

Instrument: 5972hp59.i

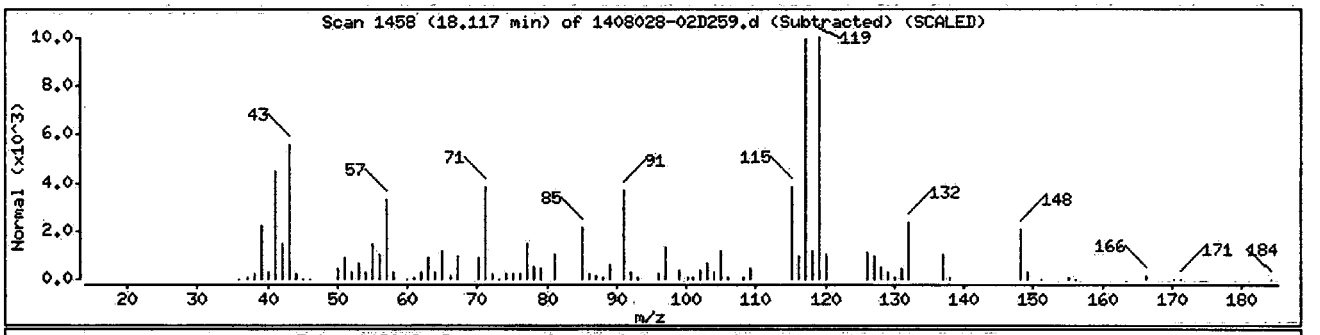
Sample Info: 1408028-02RE1:JAO

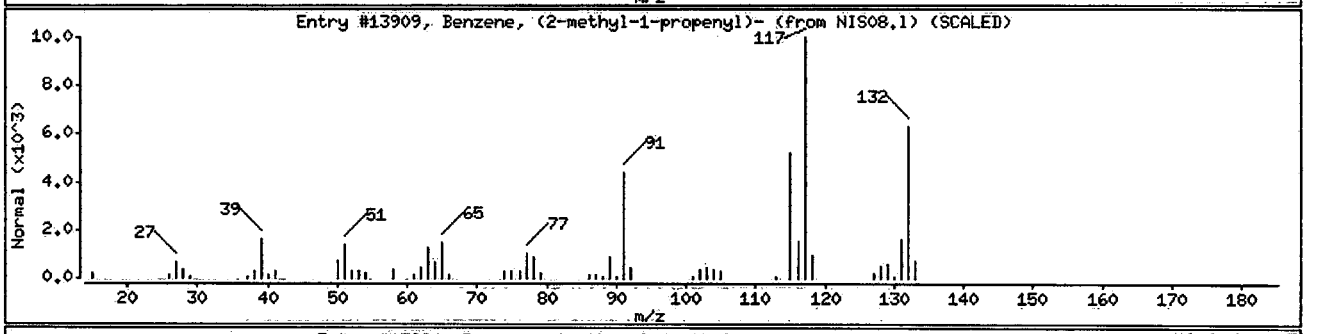
Operator: JAO

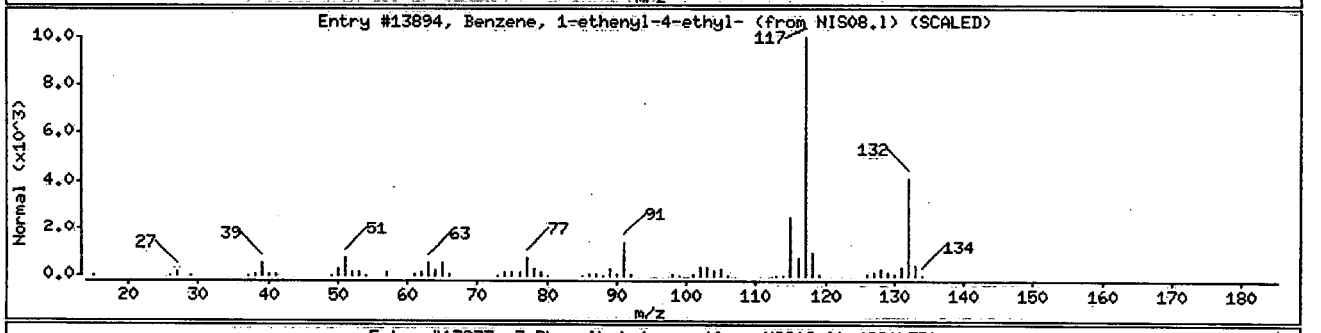
Column phase: SPB-624

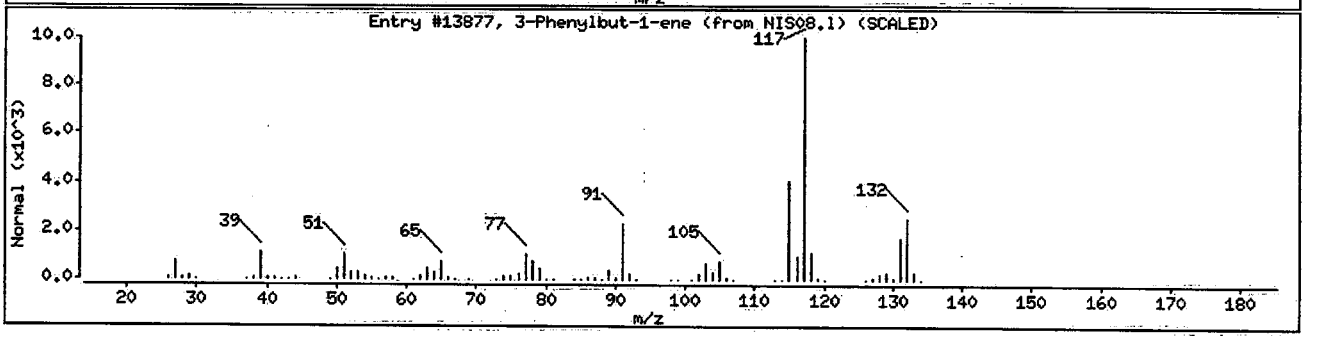
Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Benzene, (2-methyl-1-propenyl)-	768-49-0	NIS08.l	13909	53	C10H12	132
Benzene, 1-ethenyl-4-ethyl-	3454-07-7	NIS08.l	13894	35	C10H12	132
3-Phenylbut-1-ene	934-10-1	NIS08.l	13877	35	C10H12	132









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Data File: /chem/5972hp59.i/D4H15005A59.b/1408028-02D259.d

Date : 15-AUG-2014 16:42

Client ID: P001-DR0502-LW-01RE

Instrument: 5972hp59.i

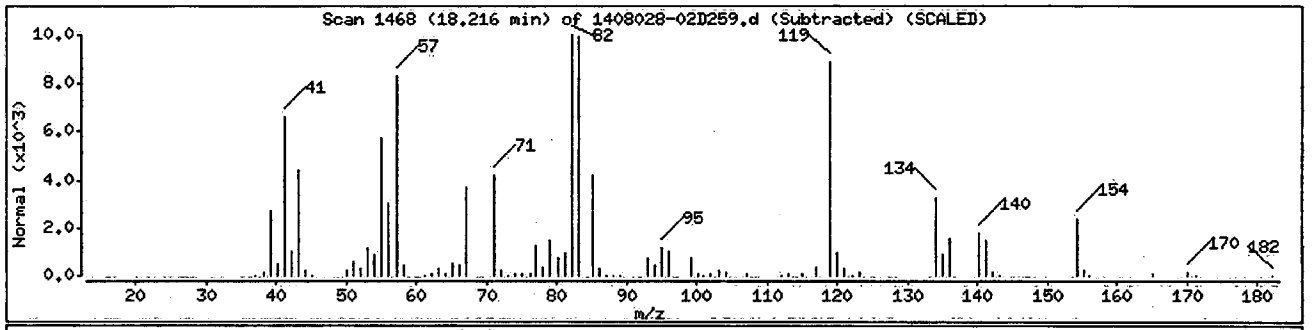
Sample Info: 1408028-02RE1:JAO

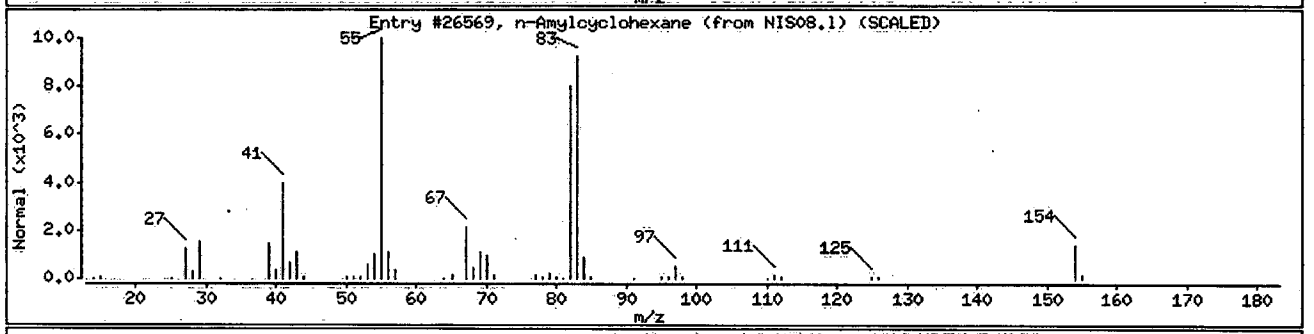
Operator: JAO

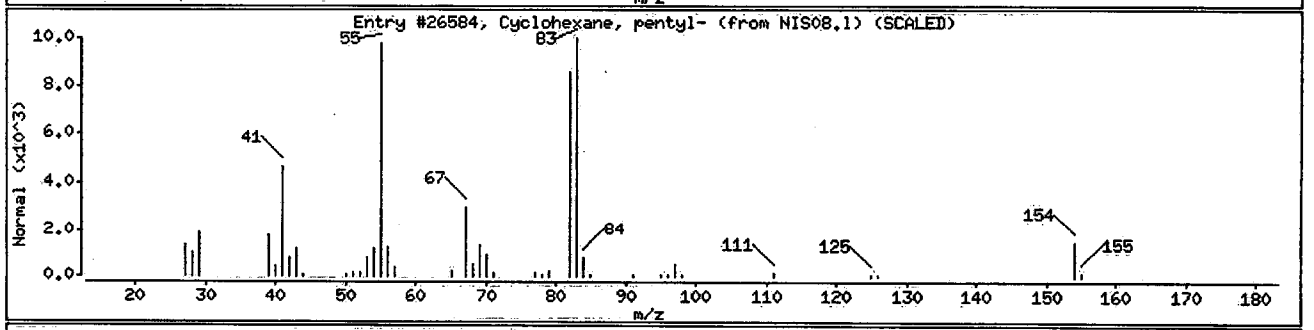
Column phase: SPB-624

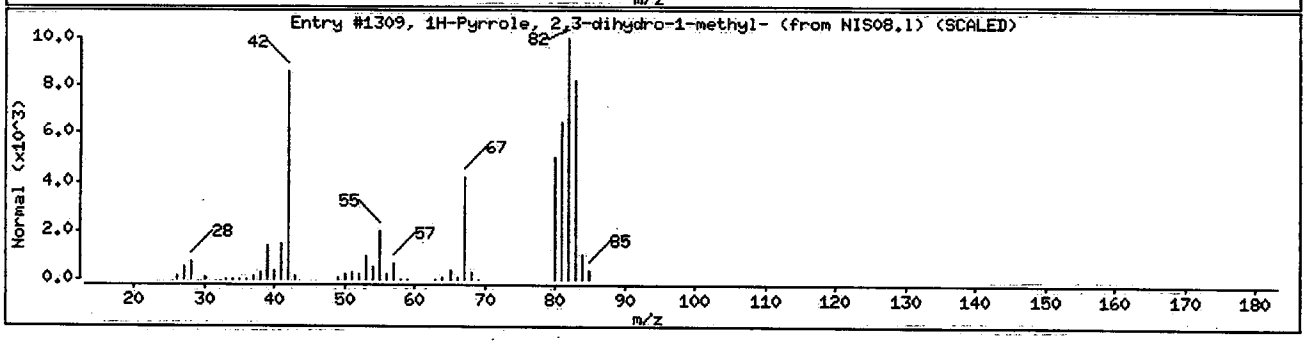
Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
n-Amylcyclohexane	29949-27-7	NIS08.1	26569	35	C11H22	154
Cyclohexane, pentyl-	4292-92-6	NIS08.1	26584	35	C11H22	154
1H-Pyrrole, 2,3-dihydro-1-methyl-	33838-11-8	NIS08.1	1309	27	C5H9N	83









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Data File: /chem/5972hp59.i/D4H15005A59.b/1408028-02D259.d

Date : 15-AUG-2014 16:42

Client ID: P001-DR0502-LW-01RE

Instrument: 5972hp59.i

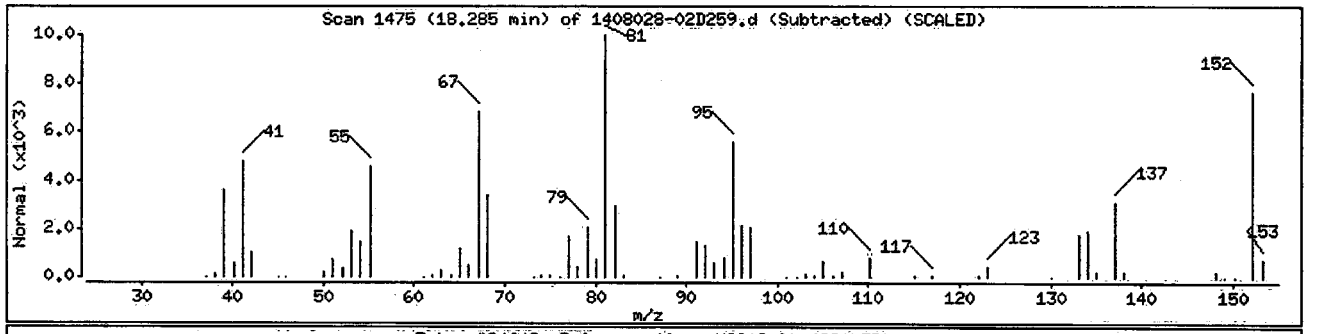
Sample Info: 1408028-02RE1:JAO

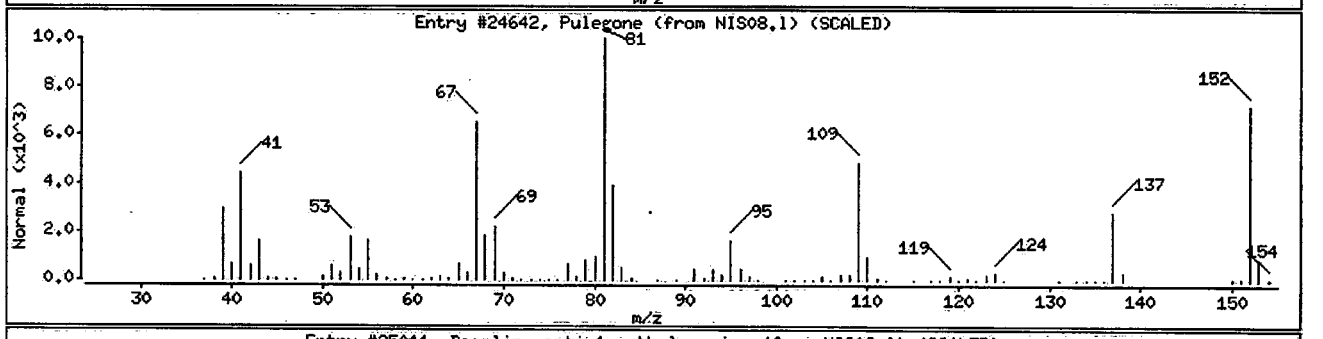
Operator: JAO

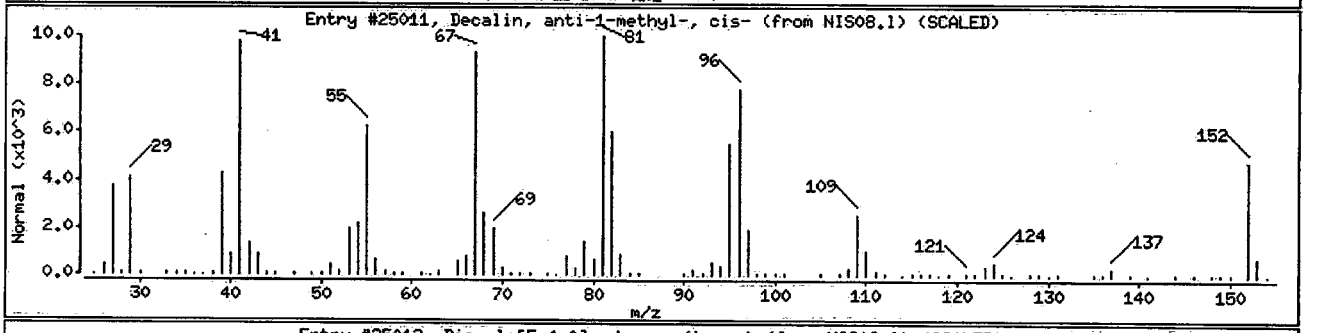
Column phase: SPB-624

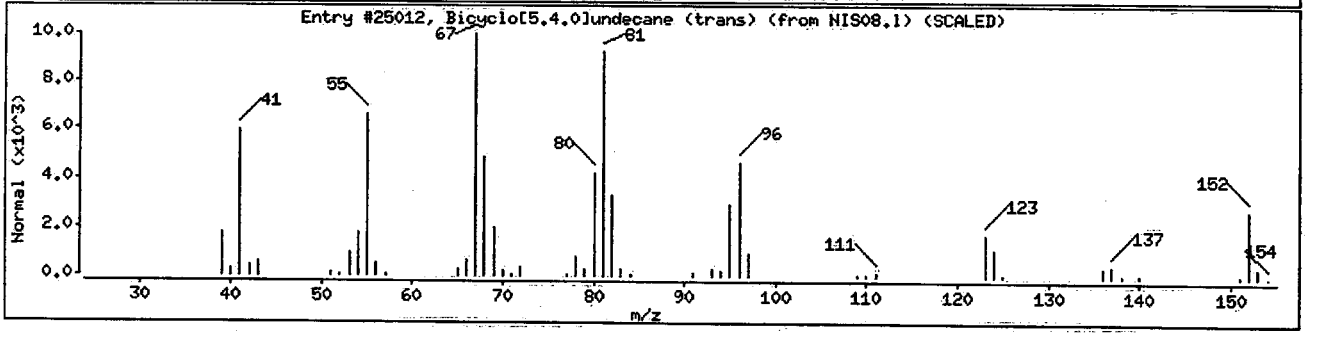
Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Pulegone	89-82-7	NIS08.l	24642	70	C10H16O	152
Decalin, anti-1-methyl-, cis-	1000158-89-0	NIS08.l	25011	64	C11H20	152
Bicyclo[5.4.0]undecane (trans)	21394-30-9	NIS08.l	25012	58	C11H20	152









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Data File: /chem/5972hp59.i/D4H15005A59.b/1408028-02D259.d

Date : 15-AUG-2014 16:42

Client ID: P001-DR0502-LW-01RE

Instrument: 5972hp59.i

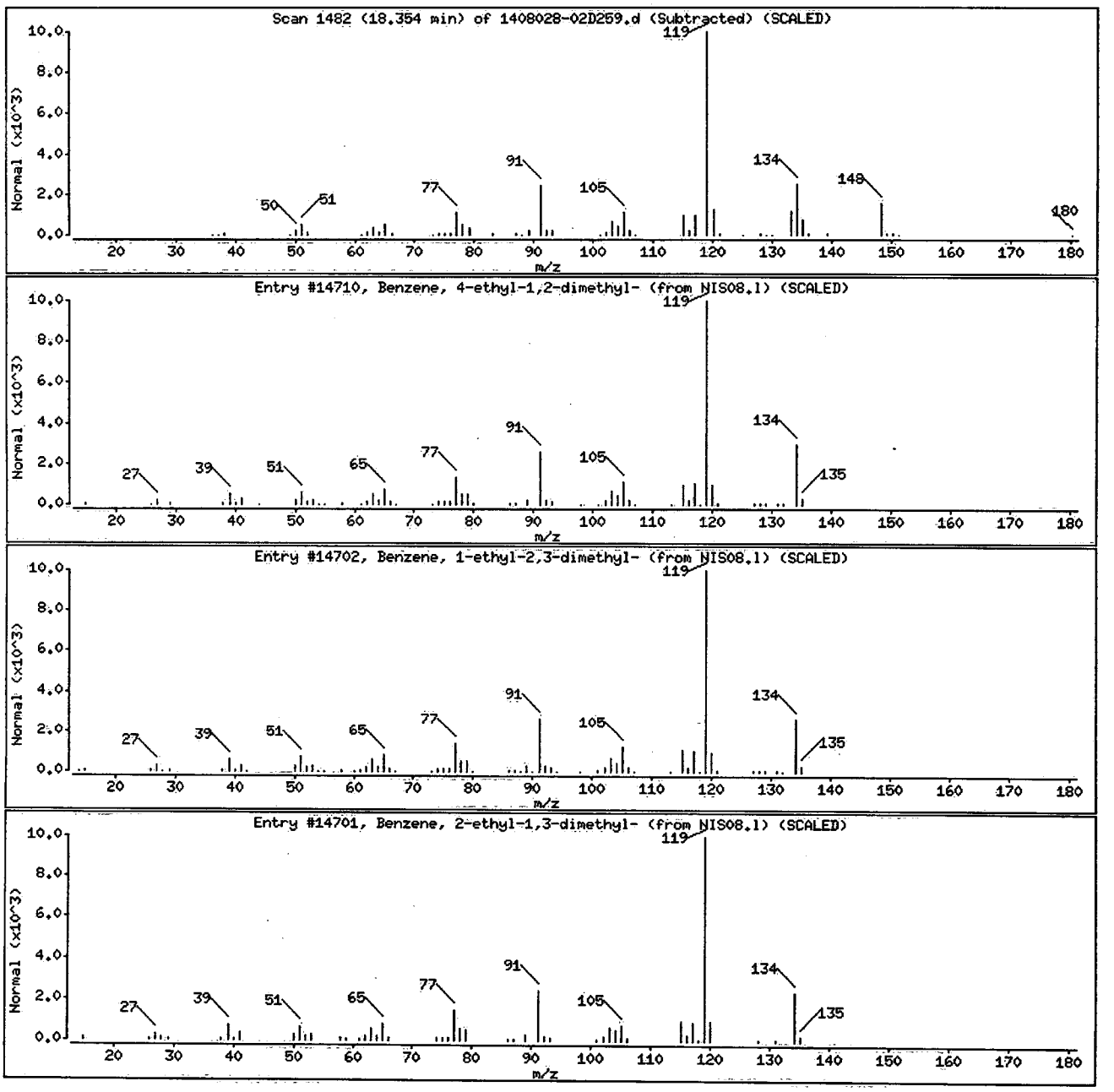
Sample Info: 1408028-02RE1:JAO

Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 4-ethyl-1,2-dimethyl-	934-80-5	NIS08.l	14710	95	C10H14	134
Benzene, 1-ethyl-2,3-dimethyl-	933-98-2	NIS08.l	14702	95	C10H14	134
Benzene, 2-ethyl-1,3-dimethyl-	2870-04-4	NIS08.l	14701	94	C10H14	134



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Data File: /chem/5972hp59.i/D4H15005A59.b/1408028-02D259.d

Date : 15-AUG-2014 16:42

Client ID: P001-DR0502-LW-01RE

Instrument: 5972hp59.i

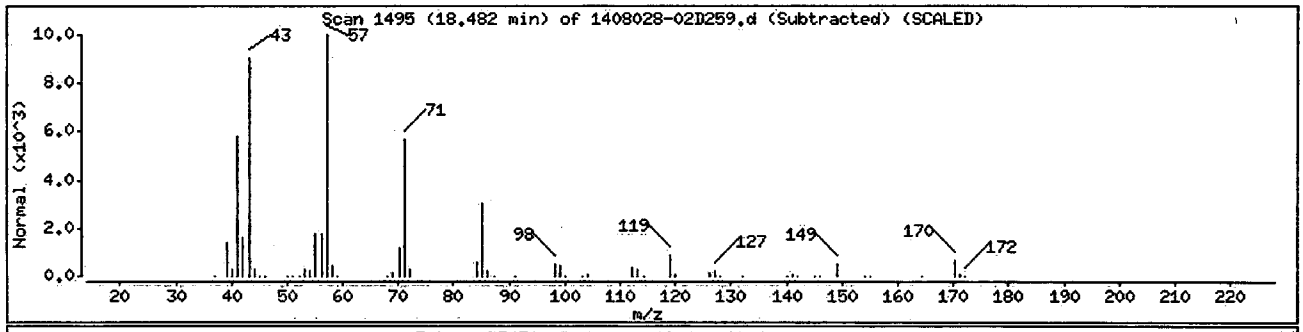
Sample Info: 1408028-02RE1:JAO

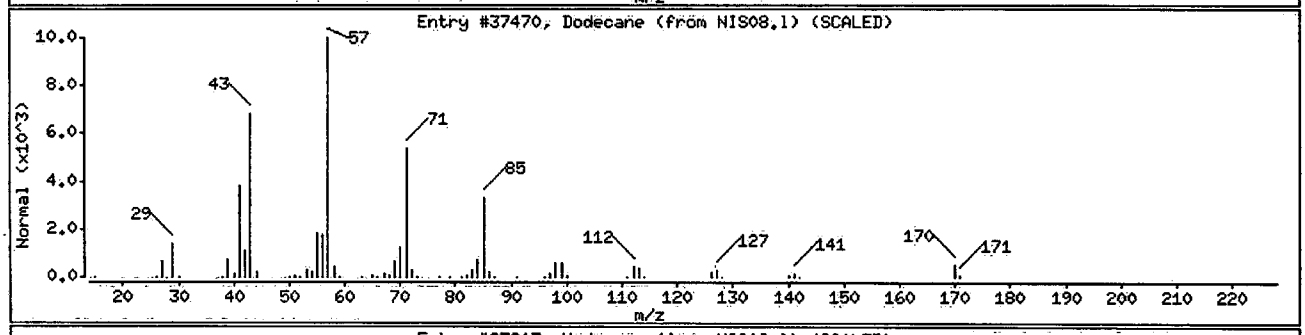
Operator: JAO

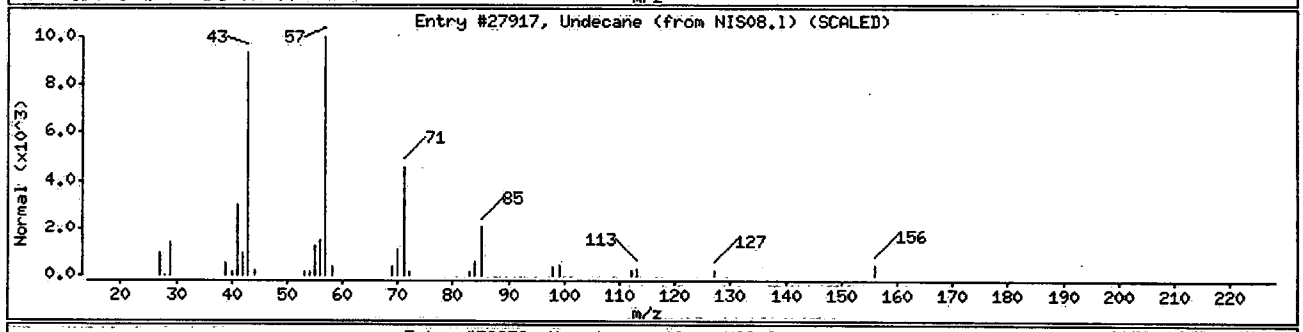
Column phase: SPB-624

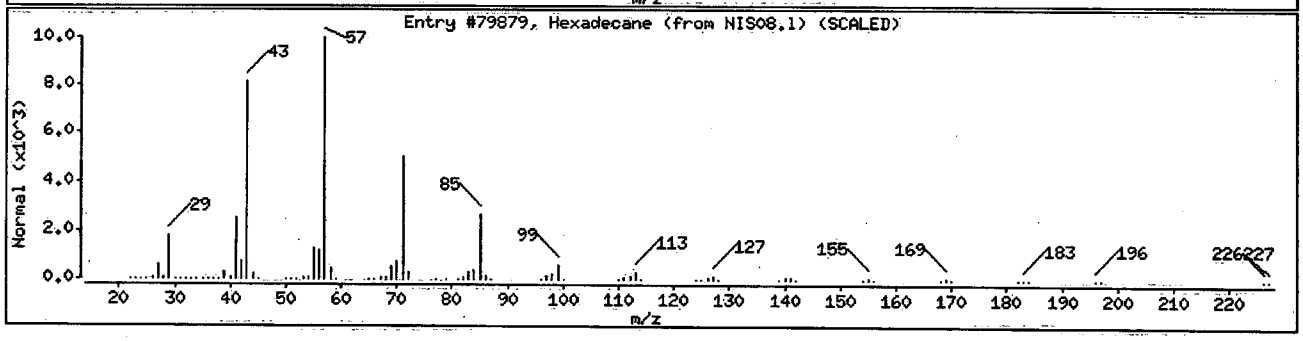
Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unk. Alkane						
Dodecane	112-40-3	NIS08.1	37470	93	C12H26	170
Undecane	1120-21-4	NIS08.1	27917	80	C11H24	156
Hexadecane	544-76-3	NIS08.1	79879	80	C16H34	226









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Data File: /chem/5972hp59.i/D4H15005A59.b/1408028-02D259.d

Date : 15-AUG-2014 16:42

Client ID: P001-DR0502-LW-01RE

Instrument: 5972hp59.i

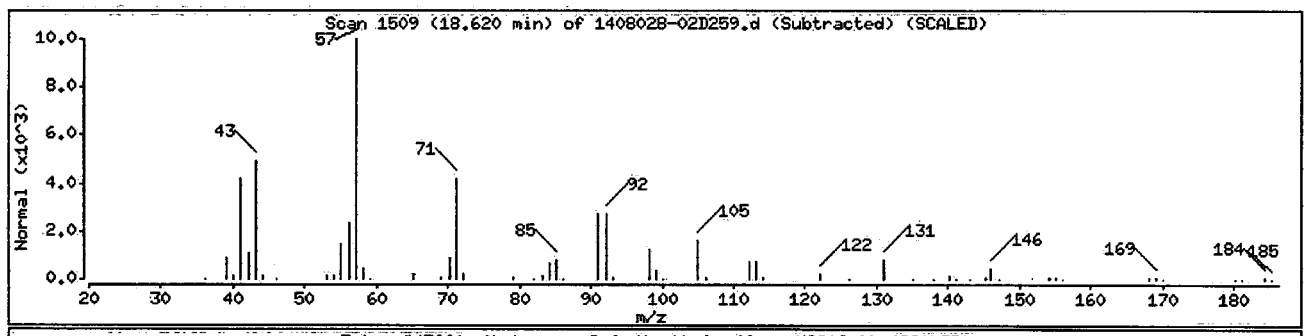
Sample Info: 1408028-02RE1:JAO

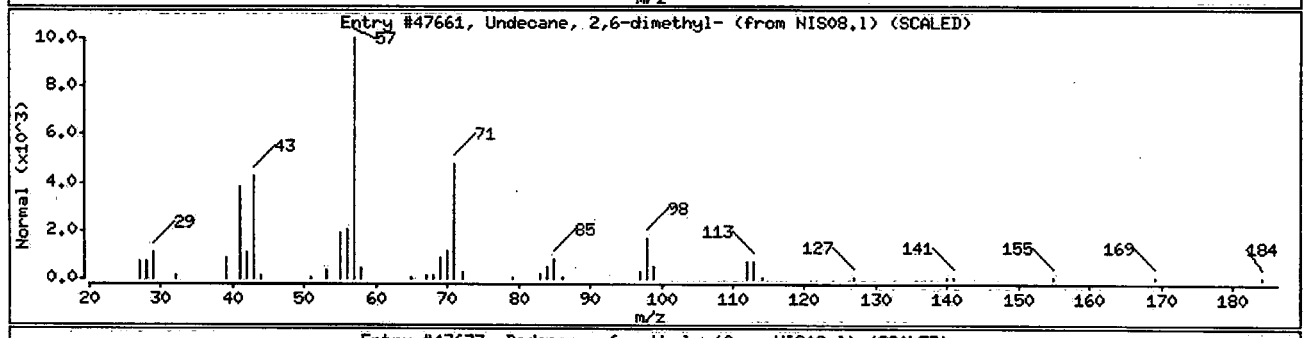
Operator: JAO

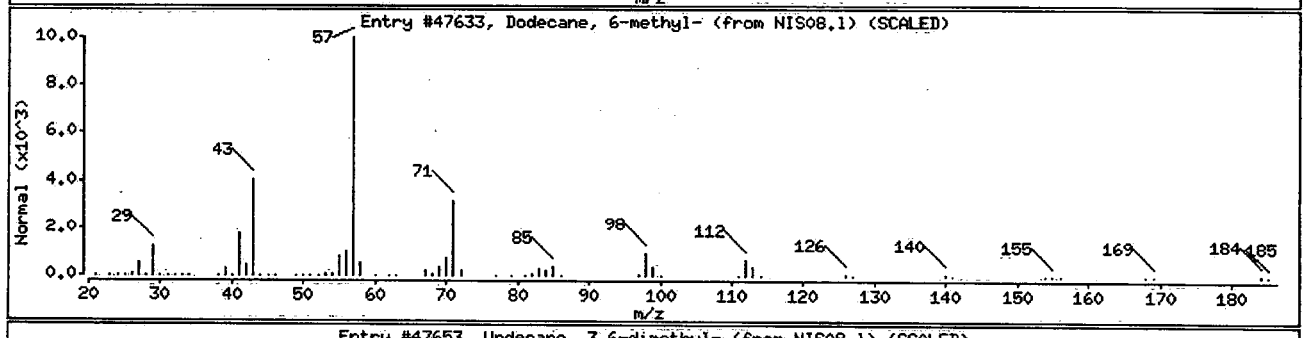
Column phase: SPB-624

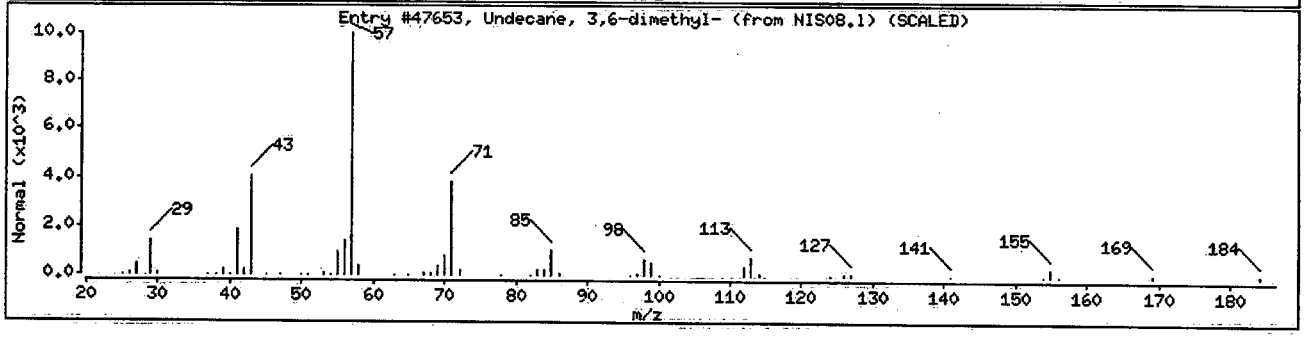
Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unk. Alkane						
Undecane, 2,6-dimethyl-	17301-23-4	NIS08.l	47661	64	C13H28	184
Dodecane, 6-methyl-	6044-71-9	NIS08.l	47633	60	C13H28	184
Undecane, 3,6-dimethyl-	17301-28-9	NIS08.l	47653	52	C13H28	184









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Data File: /chem/5972hp59.i/D4H15005A59.b/1408028-02D259.d

Date : 15-AUG-2014 16:42

Client ID: P001-DR0502-LW-01RE

Instrument: 5972hp59.i

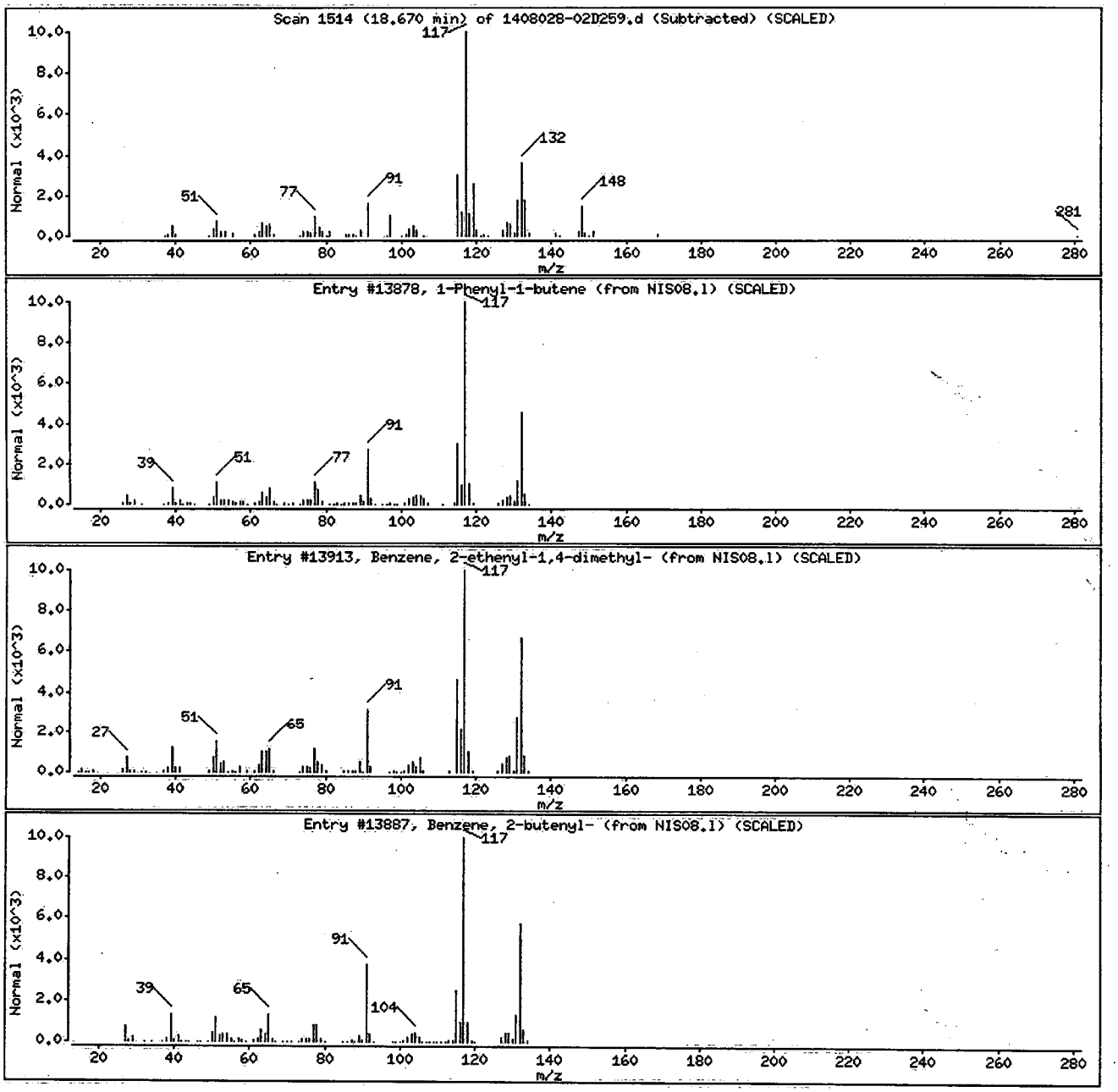
Sample Info: 1408028-02RE1:JAO

Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1-Phenyl-1-butene	824-90-8	NIS08.l	13878	93	C10H12	132
Benzene, 2-ethenyl-1,4-dimethyl-	2039-89-6	NIS08.l	13913	91	C10H12	132
Benzene, 2-butenyl-	1560-06-1	NIS08.l	13887	76	C10H12	132



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Data File: /chem/5972hp59.i/D4H15005A59.b/1408028-02D259.d

Date : 15-AUG-2014 16:42

Client ID: P001-DR0502-LW-01RE

Instrument: 5972hp59.i

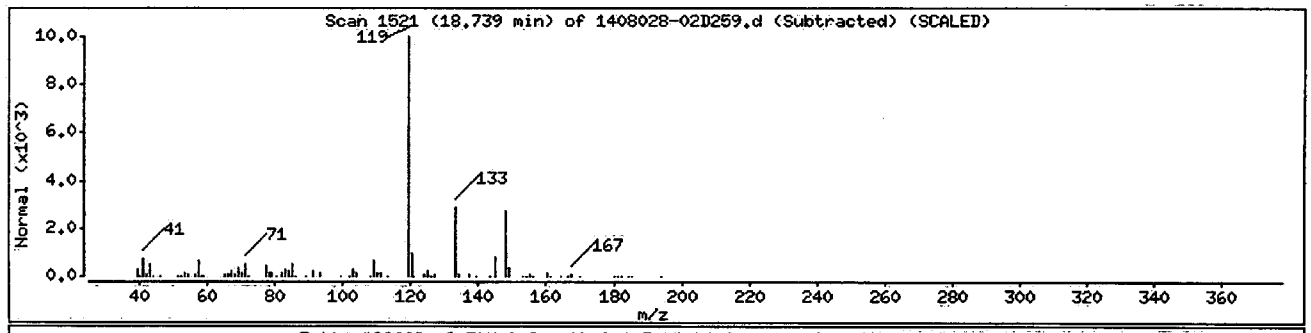
Sample Info: 1408028-02RE1:JAO

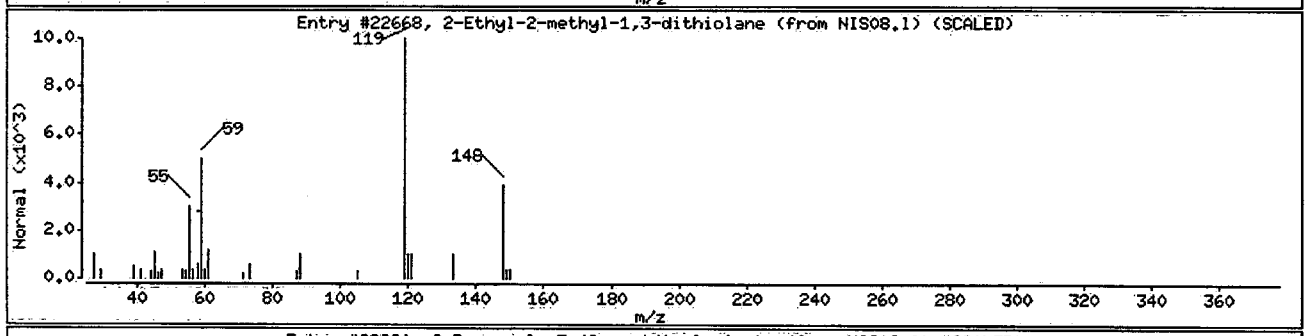
Operator: JAO

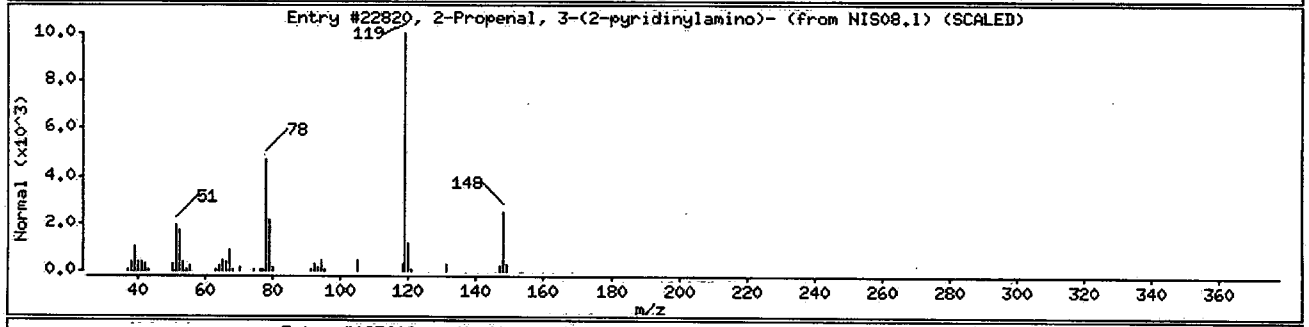
Column phase: SPB-624

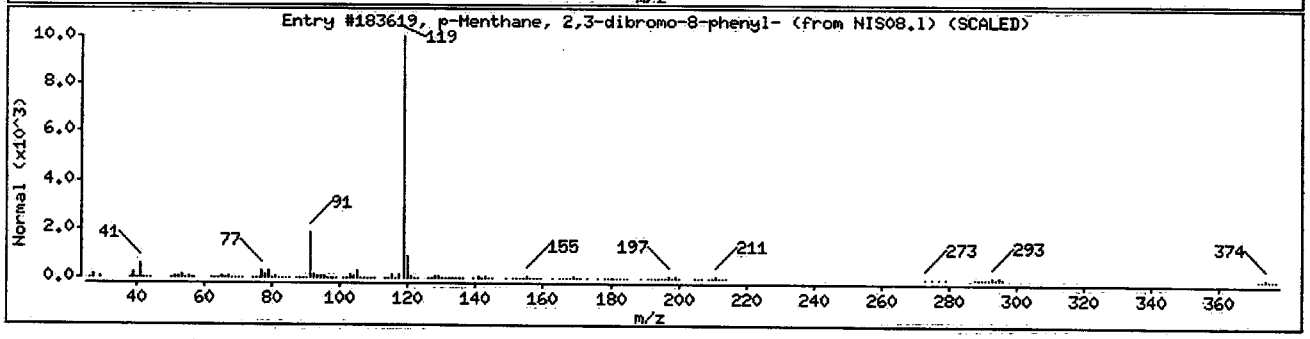
Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2-Ethyl-2-methyl-1,3-dithiolane	6008-81-7	NIS08.l	22668	64	C6H12S2	148
2-Propenal, 3-(2-pyridinylamino)-	68970-82-1	NIS08.l	22820	45	C8H8N2O	148
p-Menthane, 2,3-dibromo-8-phenyl-	1000152-61-6	NIS08.l	183619	43	C16H22Br2	372









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Data File: /chem/5972hp59.i/D4H15005A59.b/1408028-02D259.d

Date : 15-AUG-2014 16:42

Client ID: P001-DR0502-LW-01RE

Instrument: 5972hp59.i

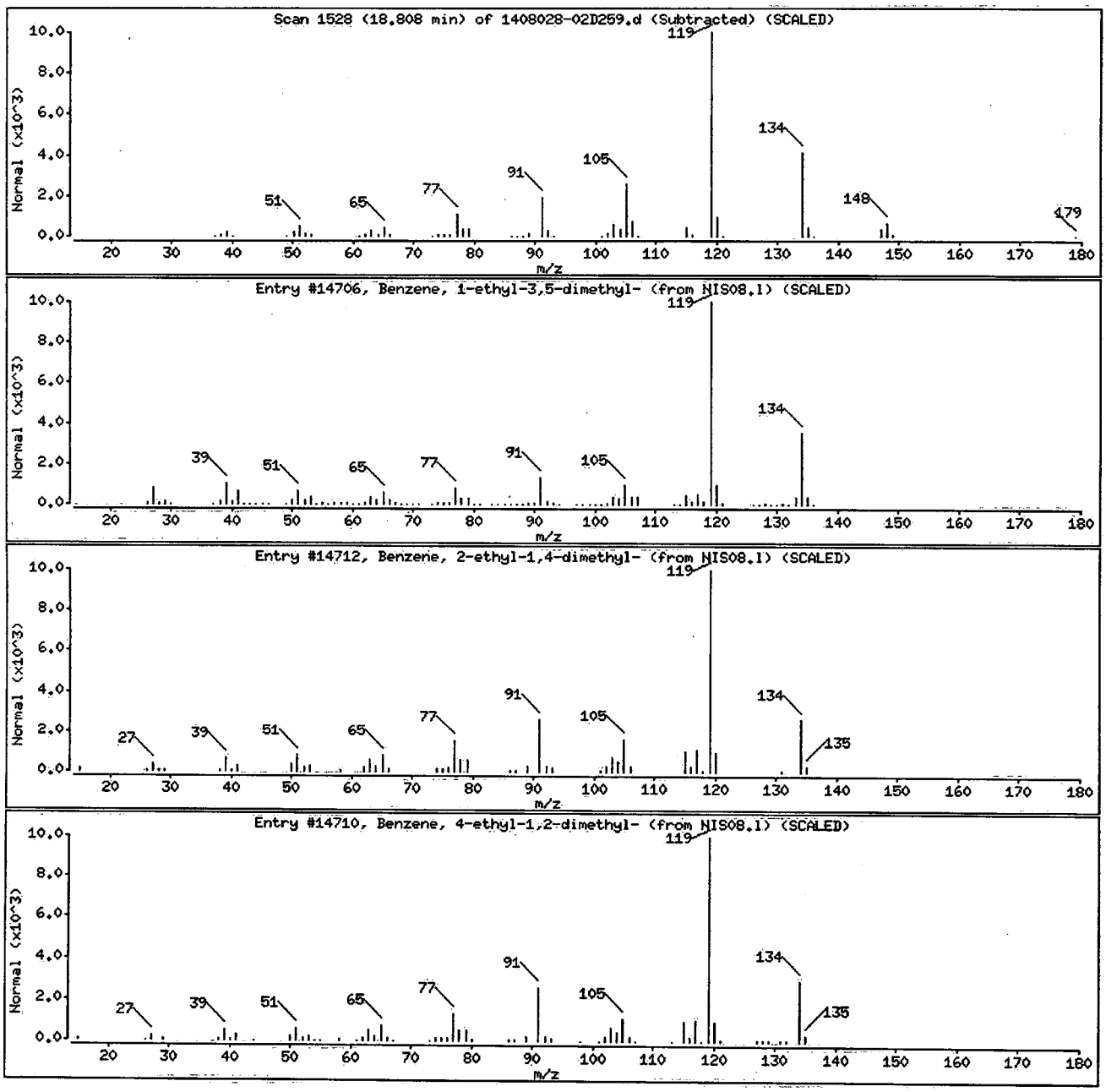
Sample Info: 1408028-02RE1:JAO

Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Benzene, 1-ethyl-3,5-dimethyl-	934-74-7	NIS08.1	14706	83	C10H14	134
Benzene, 2-ethyl-1,4-dimethyl-	1758-88-9	NIS08.1	14712	83	C10H14	134
Benzene, 4-ethyl-1,2-dimethyl-	934-80-5	NIS08.1	14710	83	C10H14	134



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Data File: /chem/5972hp59.i/D4H15005A59.b/1408028-02D259.d

Date : 15-AUG-2014 16:42

Client ID: P001-DR0502-LW-01RE

Instrument: 5972hp59.i

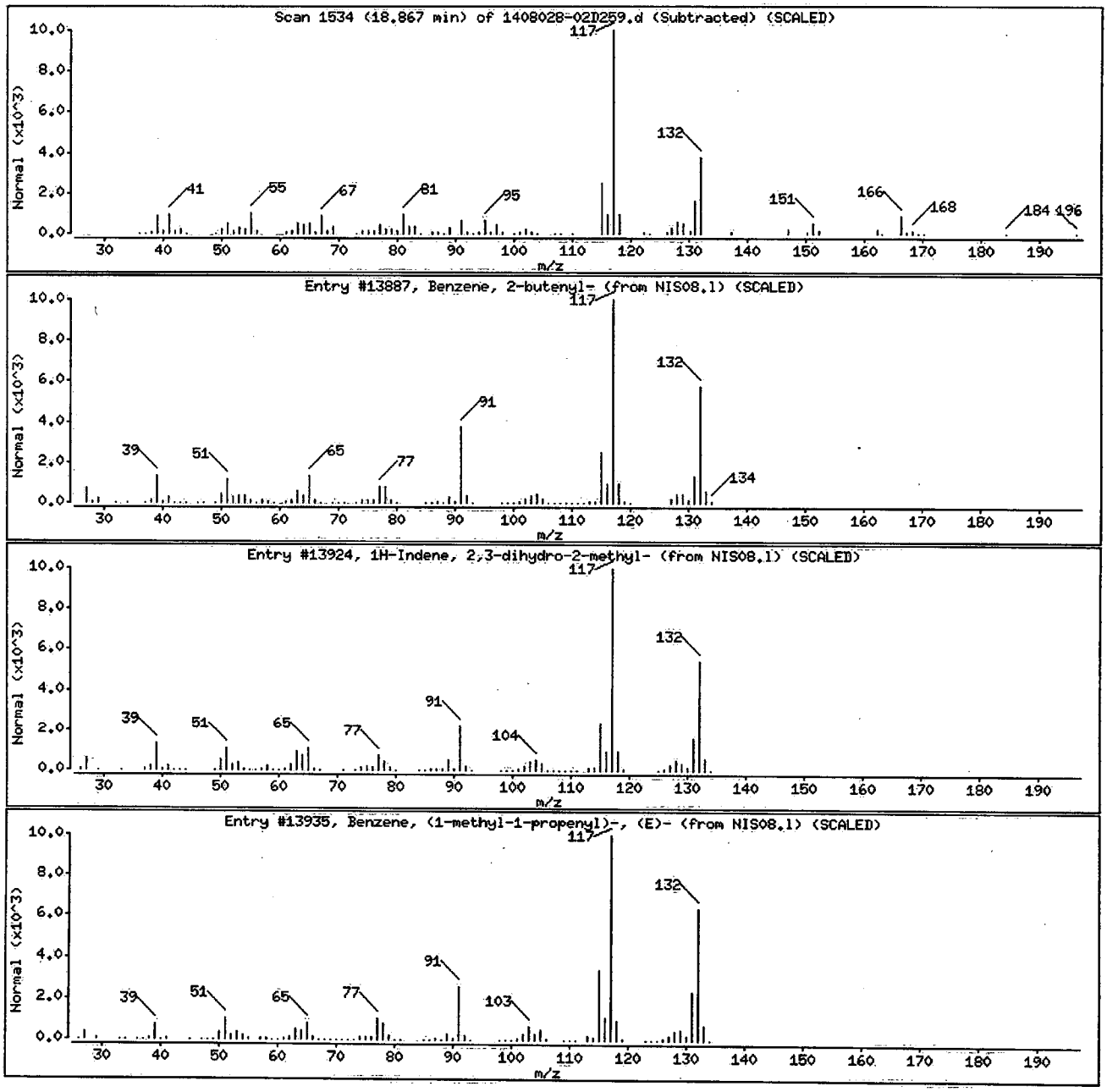
Sample Info: 1408028-02RE1:JAO

Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 2-butenyl-	1560-06-1	NIS08.l	13887	87	C10H12	132
1H-Indene, 2,3-dihydro-2-methyl-	824-63-5	NIS08.l	13924	87	C10H12	132
Benzene, (1-methyl-1-propenyl)-, (E)-	768-00-3	NIS08.l	13935	87	C10H12	132



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Data File: /chem/5972hp59.i/D4H15005A59.b/1408028-02D259.d

Date : 15-AUG-2014 16:42

Client ID: P001-DR0502-LW-01RE

Instrument: 5972hp59.i

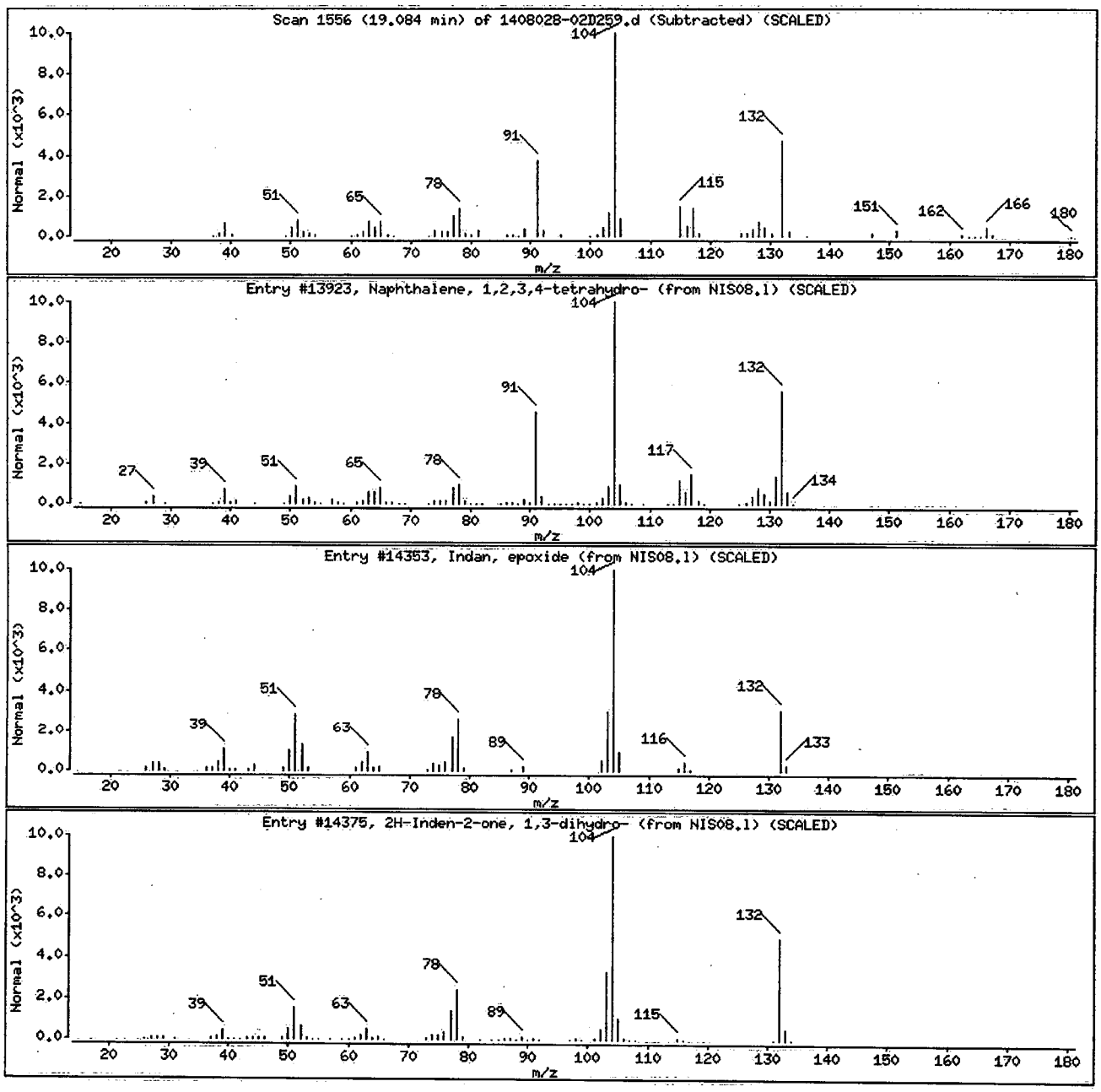
Sample Info: 1408028-02RE1:JAO

Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Naphthalene, 1,2,3,4-tetrahydro-	119-64-2	NIS08.l	13923	93	C10H12	132
Indan, epoxide	768-22-9	NIS08.l	14353	58	C9H8O	132
2H-Inden-2-one, 1,3-dihydro-	615-13-4	NIS08.l	14375	50	C9H8O	132



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Data File: /chem/5972hp59.i/D4H15005A59.b/1408028-02D259.d

Date : 15-AUG-2014 16:42

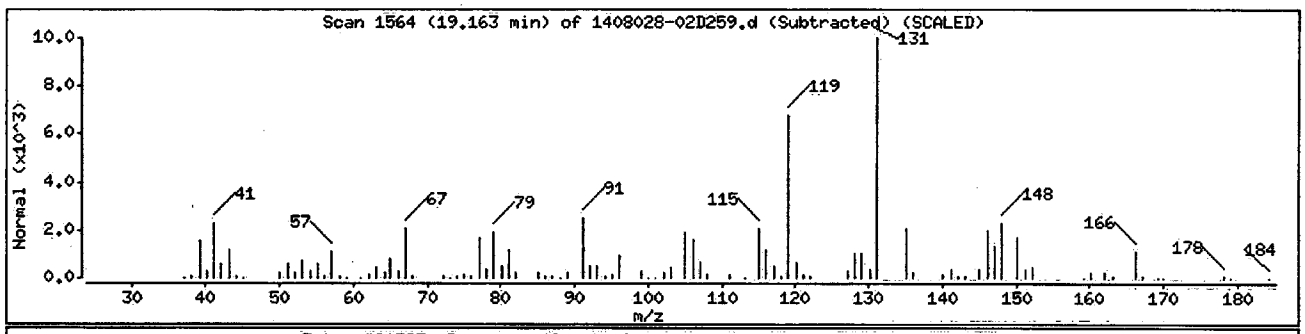
Client ID: P001-DR0502-LW-01RE | Instrument: 5972hp59.i

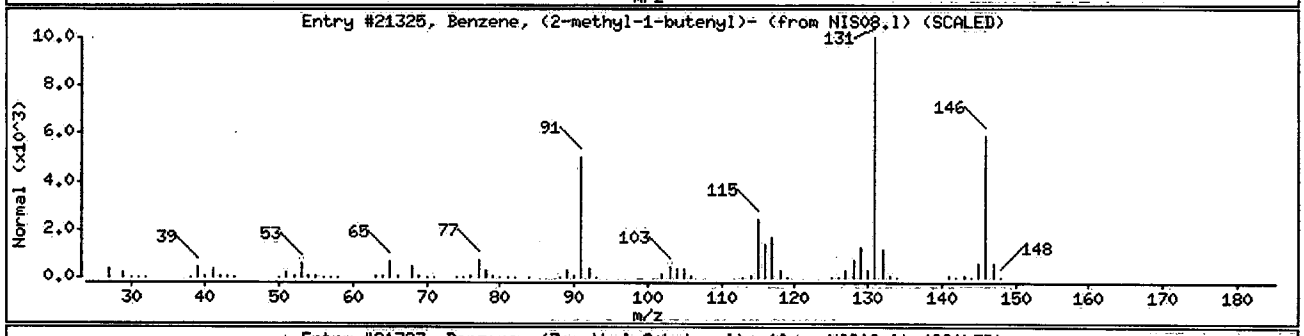
Sample Info: 1408028-02RE1:JAO

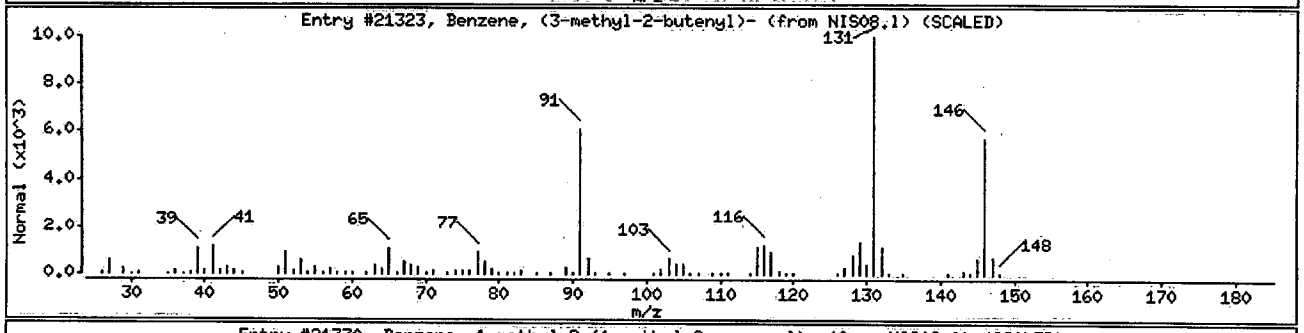
Operator: JAO

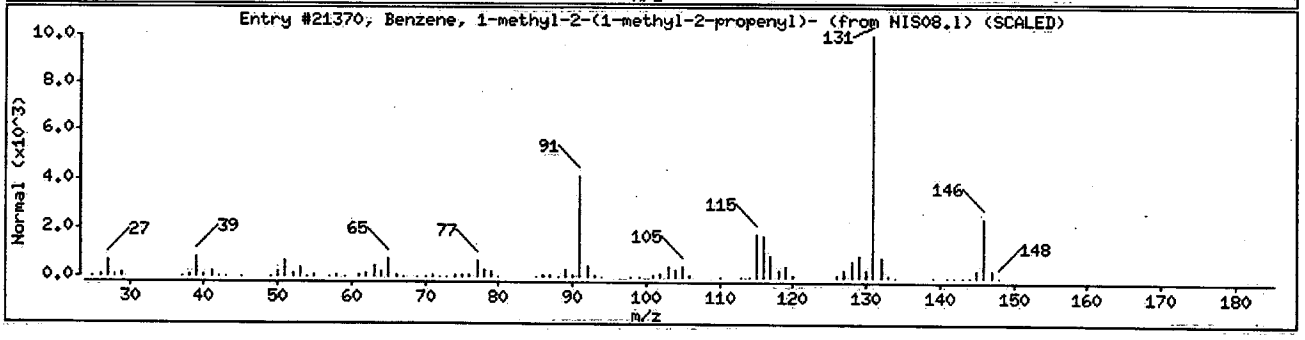
Column phase: SPB-624 | Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Benzene, (2-methyl-1-butenyl)-	56253-64-6	NIS08.l	21325	50	C11H14	146
Benzene, (3-methyl-2-butenyl)-	4489-84-3	NIS08.l	21323	50	C11H14	146
Benzene, 1-methyl-2-(1-methyl-2-propenyl	97664-19-2	NIS08.l	21370	49	C11H14	146









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Data File: /chem/5972hp59.i/D4H15005A59.b/1408028-02D259.d

Date : 15-AUG-2014 16:42

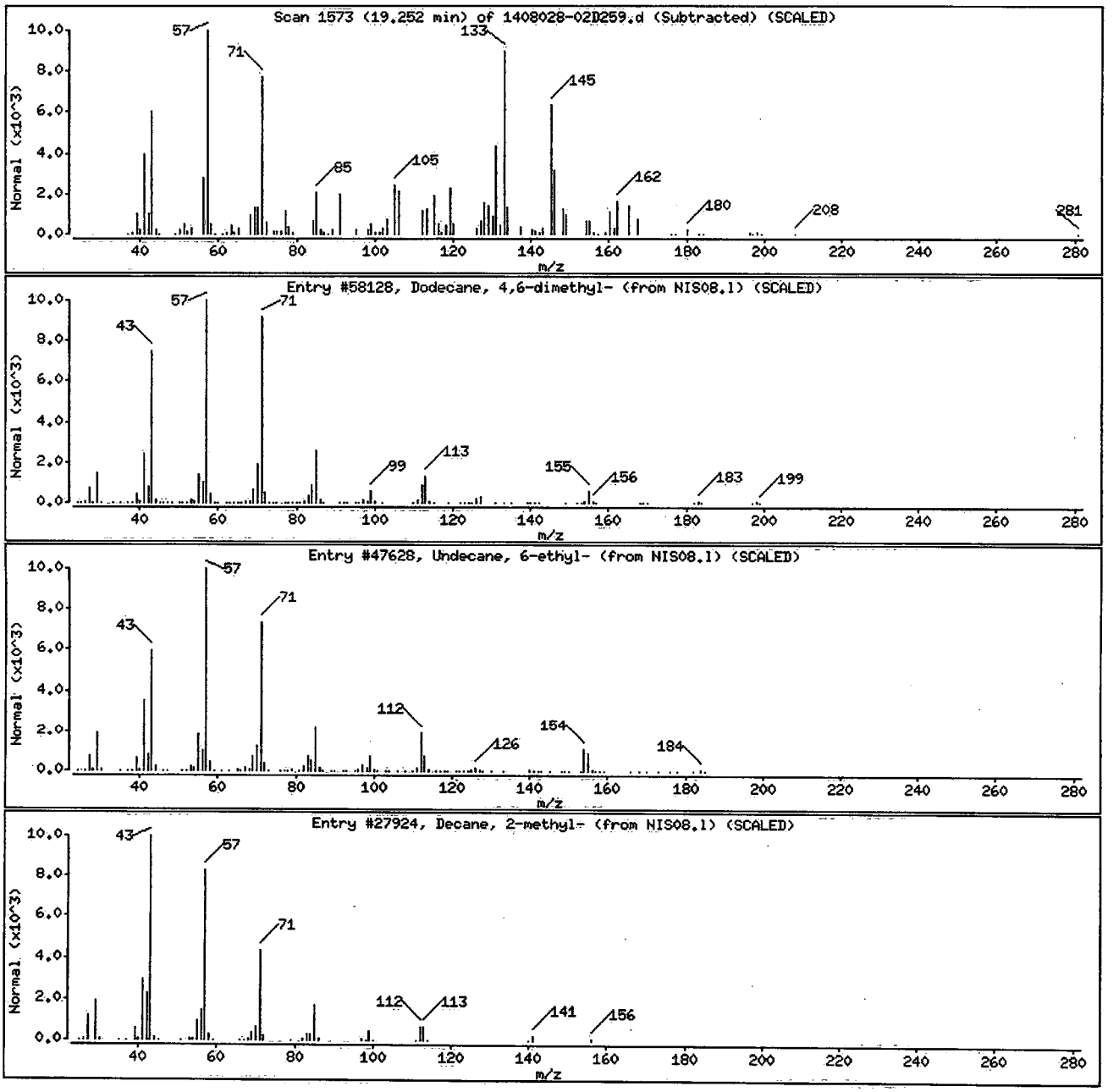
Client ID: P001-DR0502-LW-01RE | Instrument: 5972hp59.i

Sample Info: 1408028-02RE1:JAO

Operator: JAO

Column phase: SPB-624 | Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unk. Alkane						
Dodecane, 4,6-dimethyl-	61141-72-8	NIS08.l	58128	91	C14H30	198
Undecane, 6-ethyl-	17312-60-6	NIS08.l	47628	35	C13H28	184
Decane, 2-methyl-	6975-98-0	NIS08.l	27924	20	C11H24	156



8/18/2014

Data File: /chem/5972hp59.i/D4H15005A59.b/1408028-02D259.d

Date : 15-AUG-2014 16:42

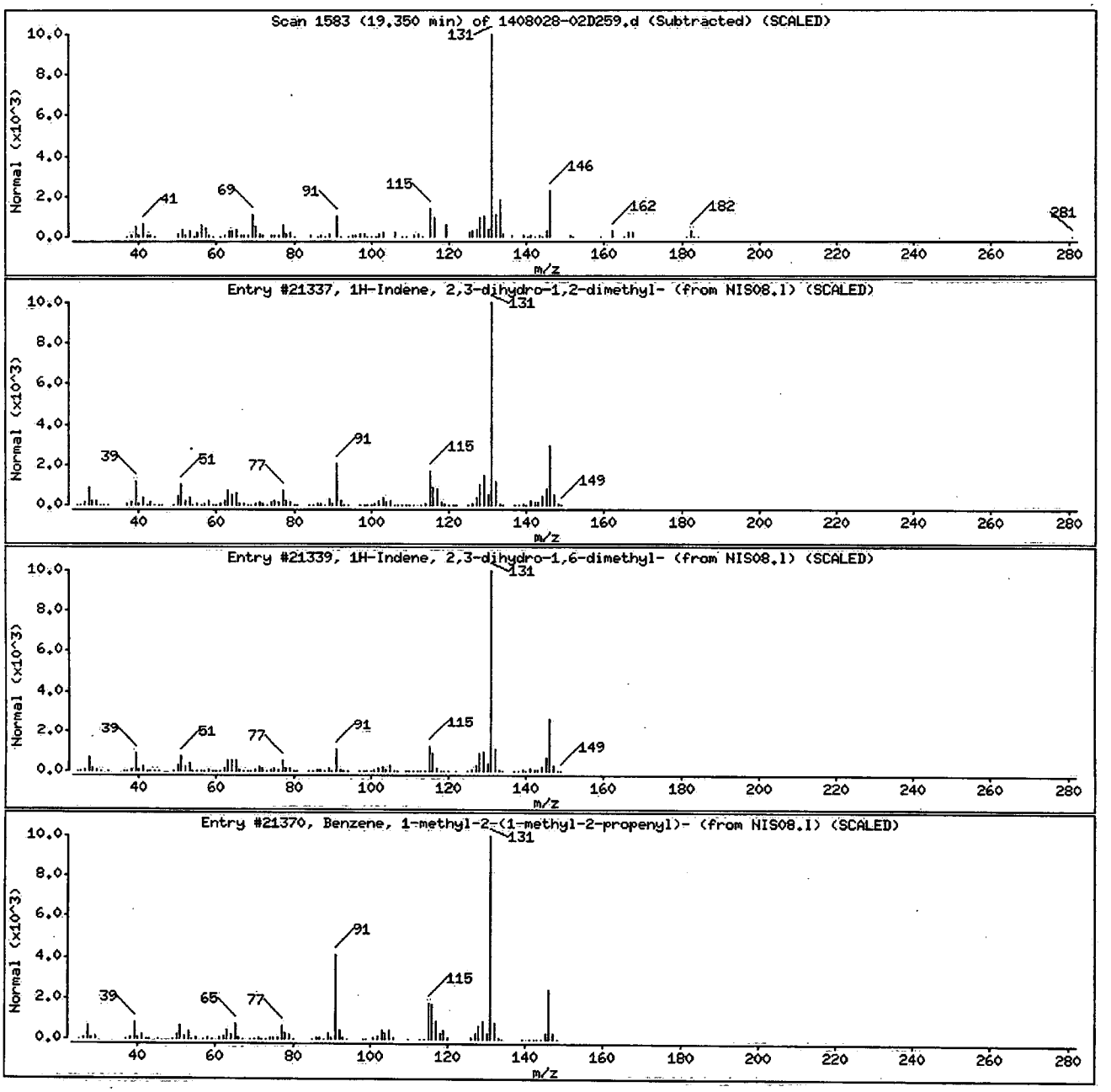
Client ID: P001-DR0502-LW-01RE | Instrument: 5972hp59.i

Sample Info: 1408028-02RE1:JAO

Operator: JAO

Column phase: SPB-624 | Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1H-Indene, 2,3-dihydro-1,2-dimethyl-	17057-82-8	NIS08.l	21337	90	C11H14	146
1H-Indene, 2,3-dihydro-1,6-dimethyl-	17059-48-2	NIS08.l	21339	90	C11H14	146
Benzene, 1-methyl-2-(1-methyl-2-propenyl	97664-19-2	NIS08.l	21370	90	C11H14	146



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Date : 15-AUG-2014 16:42

Client ID: P001-DR0502-LW-01RE

Instrument: 5972hp59.i

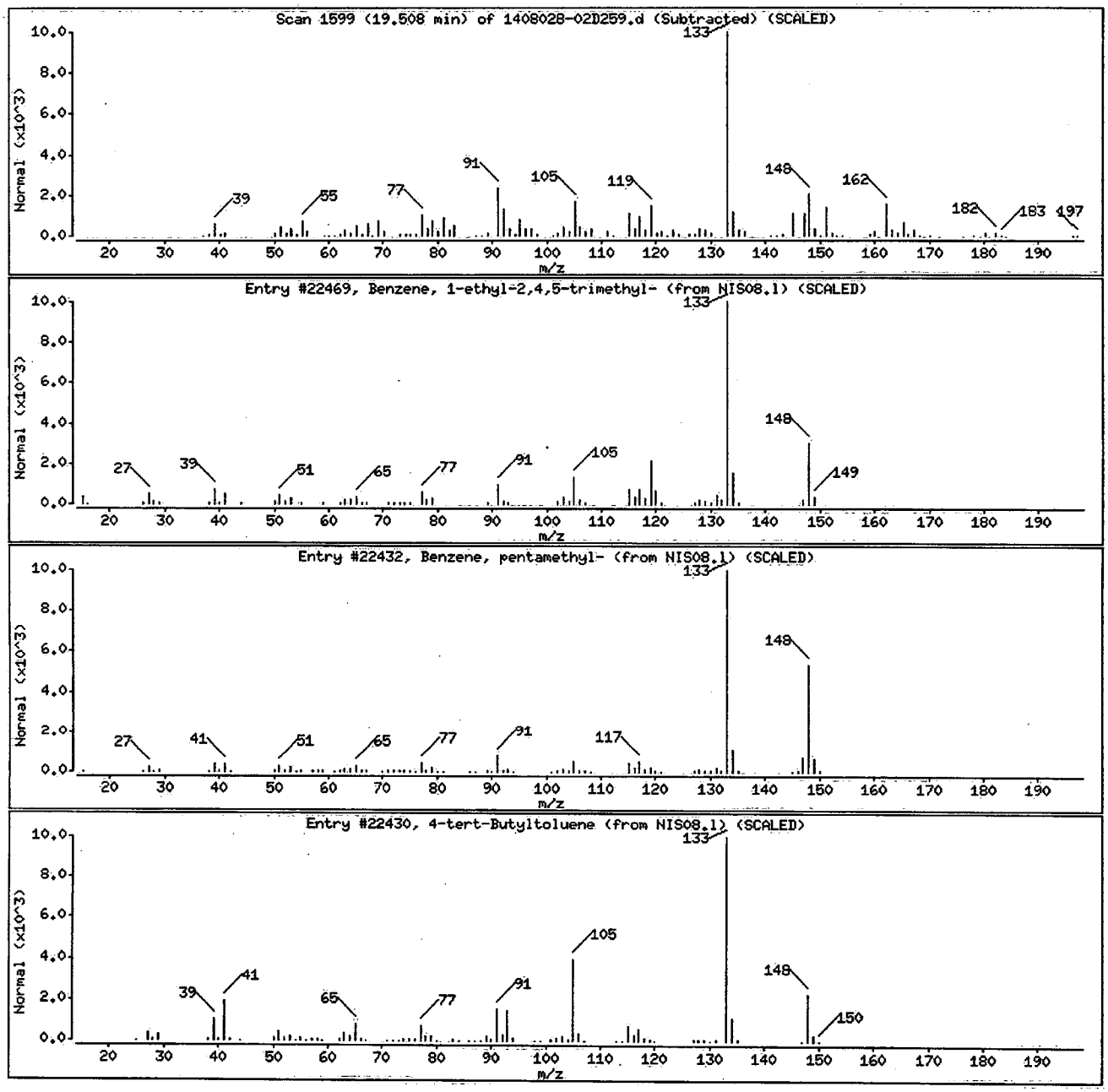
Sample Info: 1408028-02RE1:JAO

Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Benzene, 1-ethyl-2,4,5-trimethyl-	17851-27-3	NIS08.1	22469	70	C11H16	148
Benzene, pentamethyl-	700-12-9	NIS08.1	22432	70	C11H16	148
4-tert-Butyltoluene	98-51-1	NIS08.1	22430	64	C11H16	148



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Data File: /chem/5972hp59.i/D4H15005A59.b/1408028-02D259.d

Date : 15-AUG-2014 16:42

Client ID: P001-DR0502-LW-01RE

Instrument: 5972hp59.i

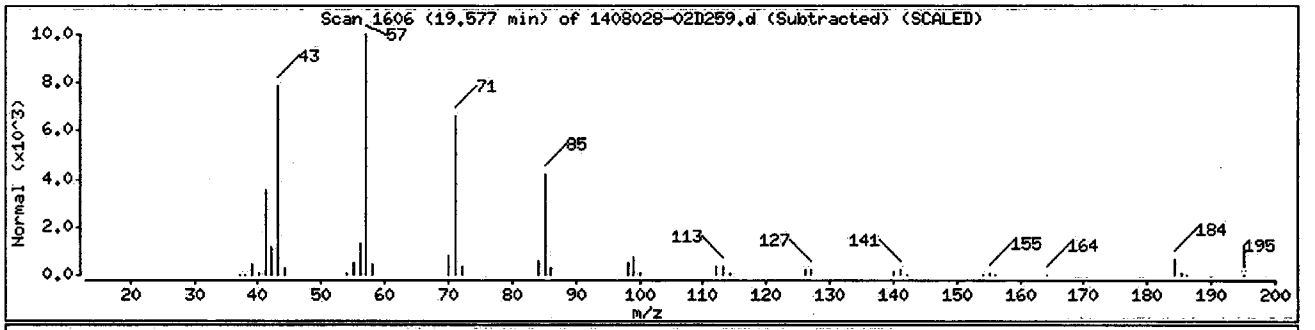
Sample Info: 1408028-02RE1:JAO

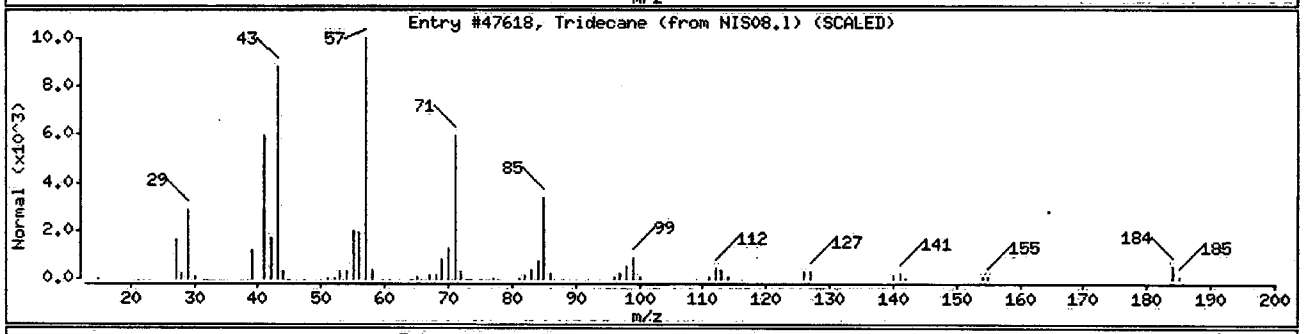
Operator: JAO

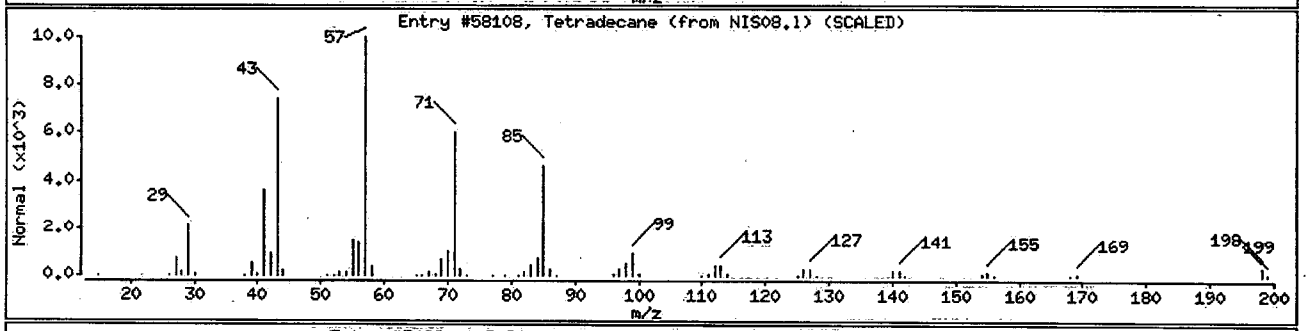
Column phase: SPB-624

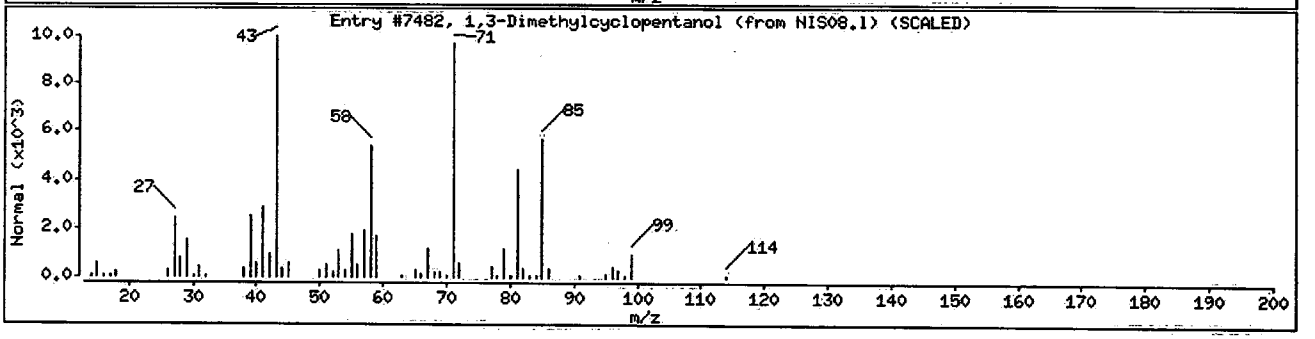
Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unk. Alkane						
Tridecane	629-50-5	NIS08.1	47618	93	C13H28	184
Tetradecane	629-59-4	NIS08.1	58108	86	C14H30	198
1,3-Dimethylcyclopentanol	19550-46-0	NIS08.1	7482	64	C7H14O	114









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Data File: /chem/5972hp59.i/D4H15005A59.b/1408028-02D259.d

Date : 15-AUG-2014 16:42

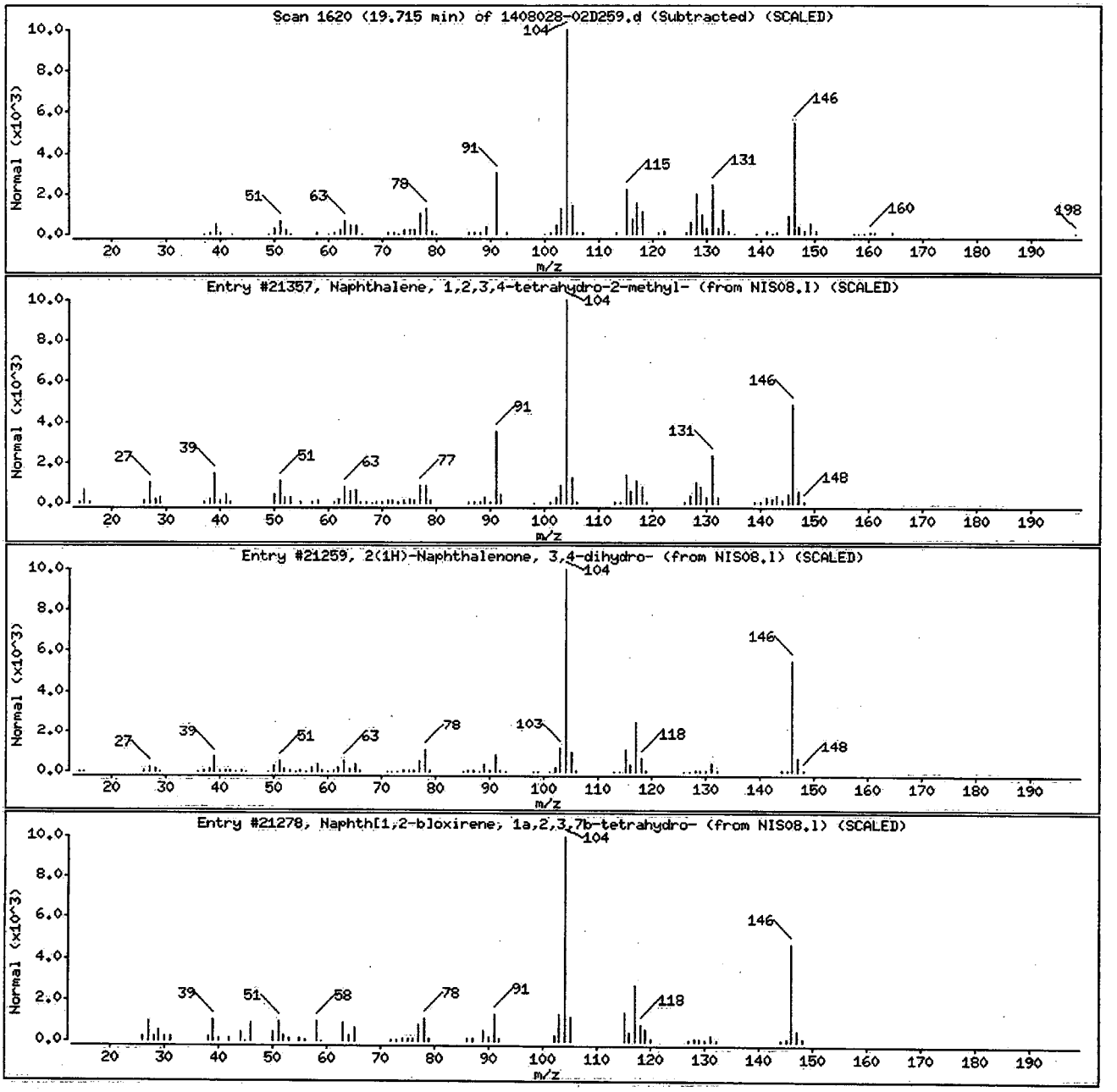
Client ID: P001-DR0502-LW-01RE | Instrument: 5972hp59.i

Sample Info: 1408028-02RE1:JAO

Operator: JAO

Column phase: SPB-624 | Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Naphthalene, 1,2,3,4-tetrahydro-2-methyl	3877-19-8	NIS08.l	21357	90	C11H14	146
2(1H)-Naphthalenone, 3,4-dihydro-	530-93-8	NIS08.l	21259	52	C10H10O	146
Naphth[1,2-b]oxirene, 1a,2,3,7b-tetrahyd	2461-34-9	NIS08.l	21278	50	C10H10O	146



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Data File: /chem/5972hp59.i/D4H15005A59.b/1408028-02D259.d

Date : 15-AUG-2014 16:42

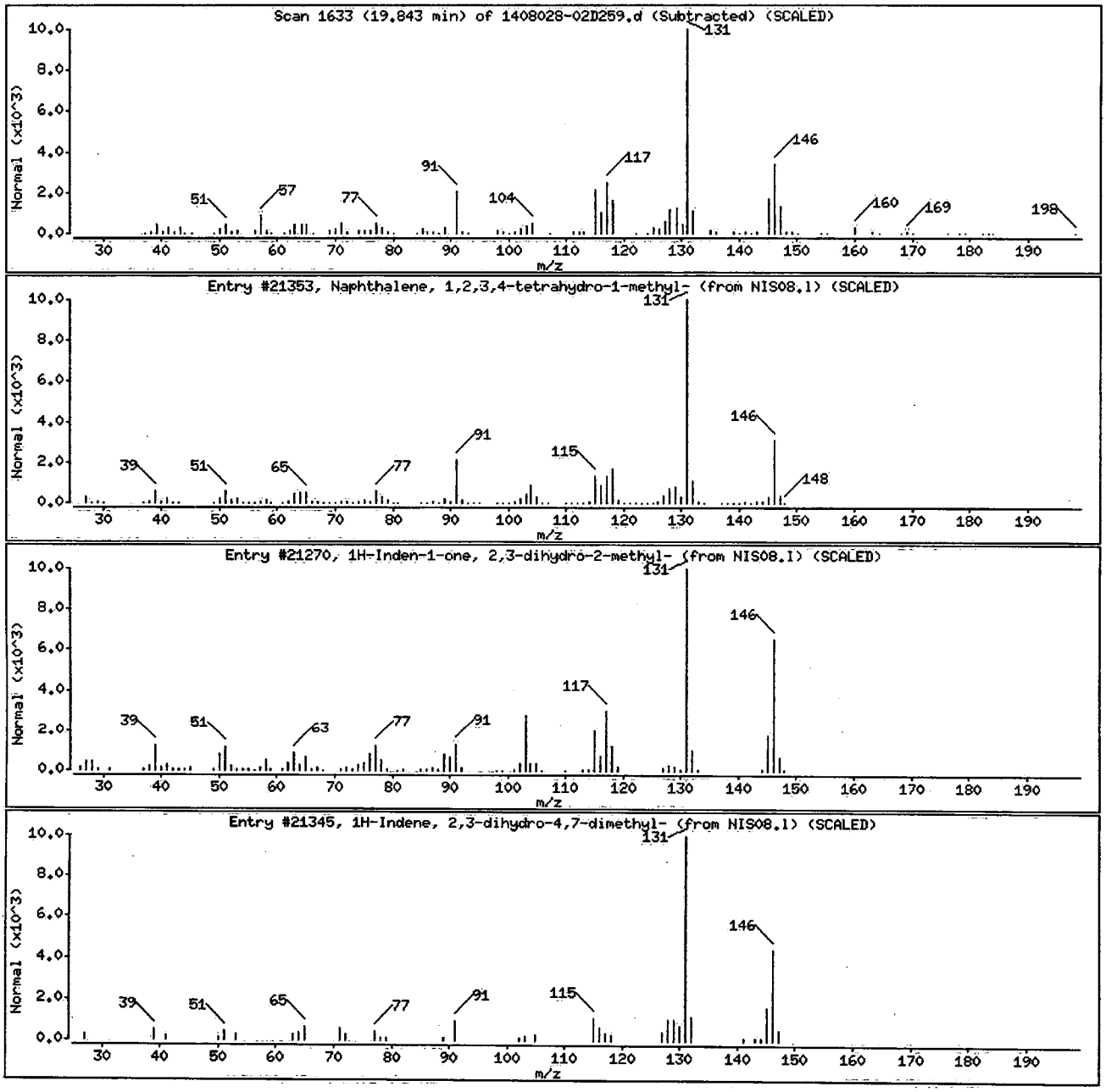
Client ID: P001-DR0502-LW-01RE Instrument: 5972hp59.i

Sample Info: 1408028-02RE1:JAO

Operator: JAO

Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Naphthalene, 1,2,3,4-tetrahydro-1-methyl	1559-81-5	NIS08.l	21353	87	C11H14	146
1H-Inden-1-one, 2,3-dihydro-2-methyl-	17496-14-9	NIS08.l	21270	83	C10H10O	146
1H-Indene, 2,3-dihydro-4,7-dimethyl-	6682-71-9	NIS08.l	21345	83	C11H14	146



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Data File: /chem/5972hp59.i/D4H15005A59.b/1408028-02D259.d

Date : 15-AUG-2014 16:42

Client ID: P001-DR0502-LW-01RE

Instrument: 5972hp59.i

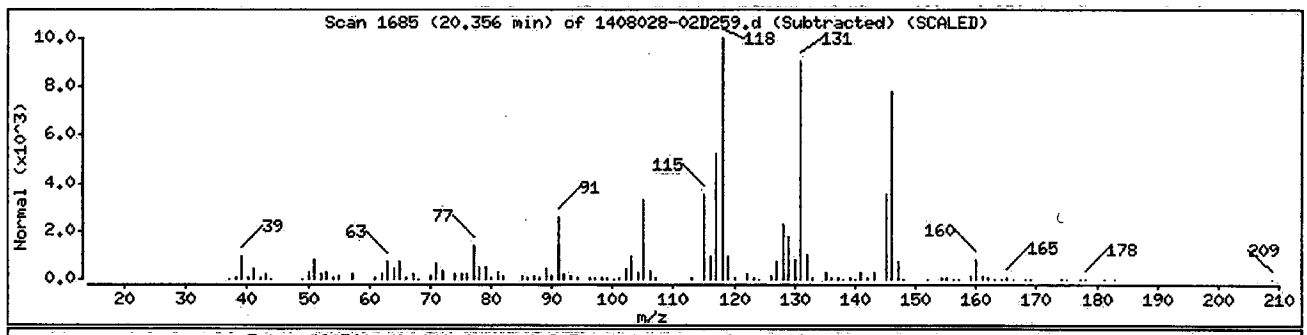
Sample Info: 1408028-02RE1:JAO

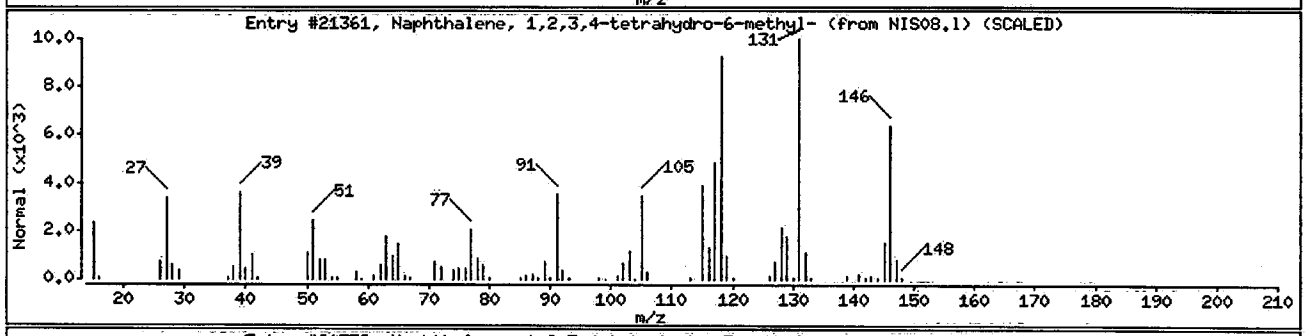
Operator: JAO

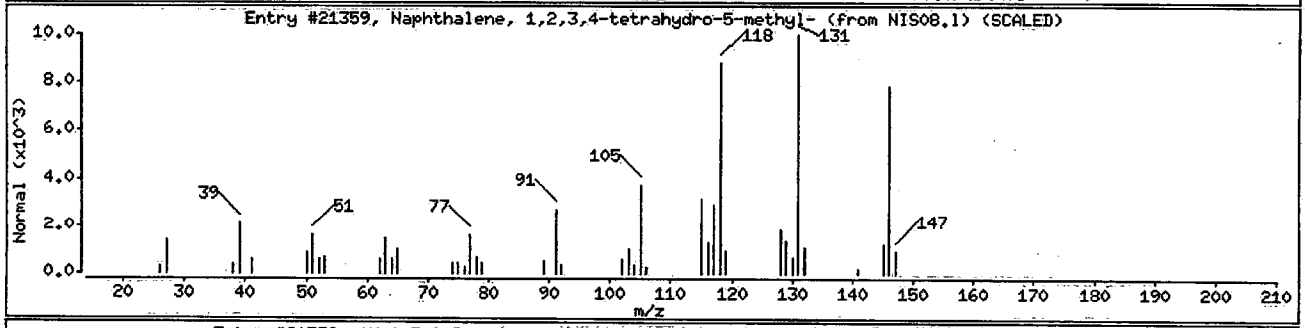
Column phase: SPB-624

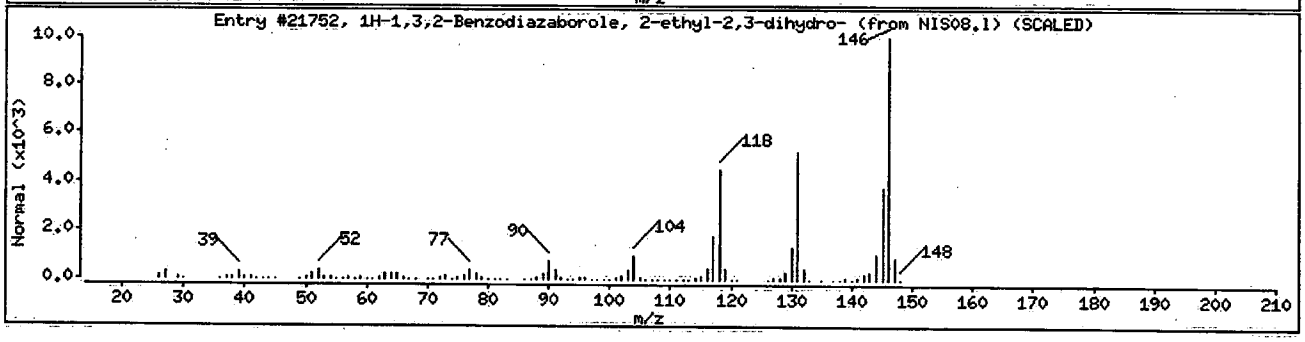
Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Naphthalene, 1,2,3,4-tetrahydro-6-methyl	1680-51-9	NIS08.l	21361	95	C11H14	146
Naphthalene, 1,2,3,4-tetrahydro-5-methyl	2809-64-5	NIS08.l	21359	93	C11H14	146
1H-1,3,2-Benzodiazaborole, 2-ethyl-2,3-d	74663-81-3	NIS08.l	21752	93	C8H11BN2	146









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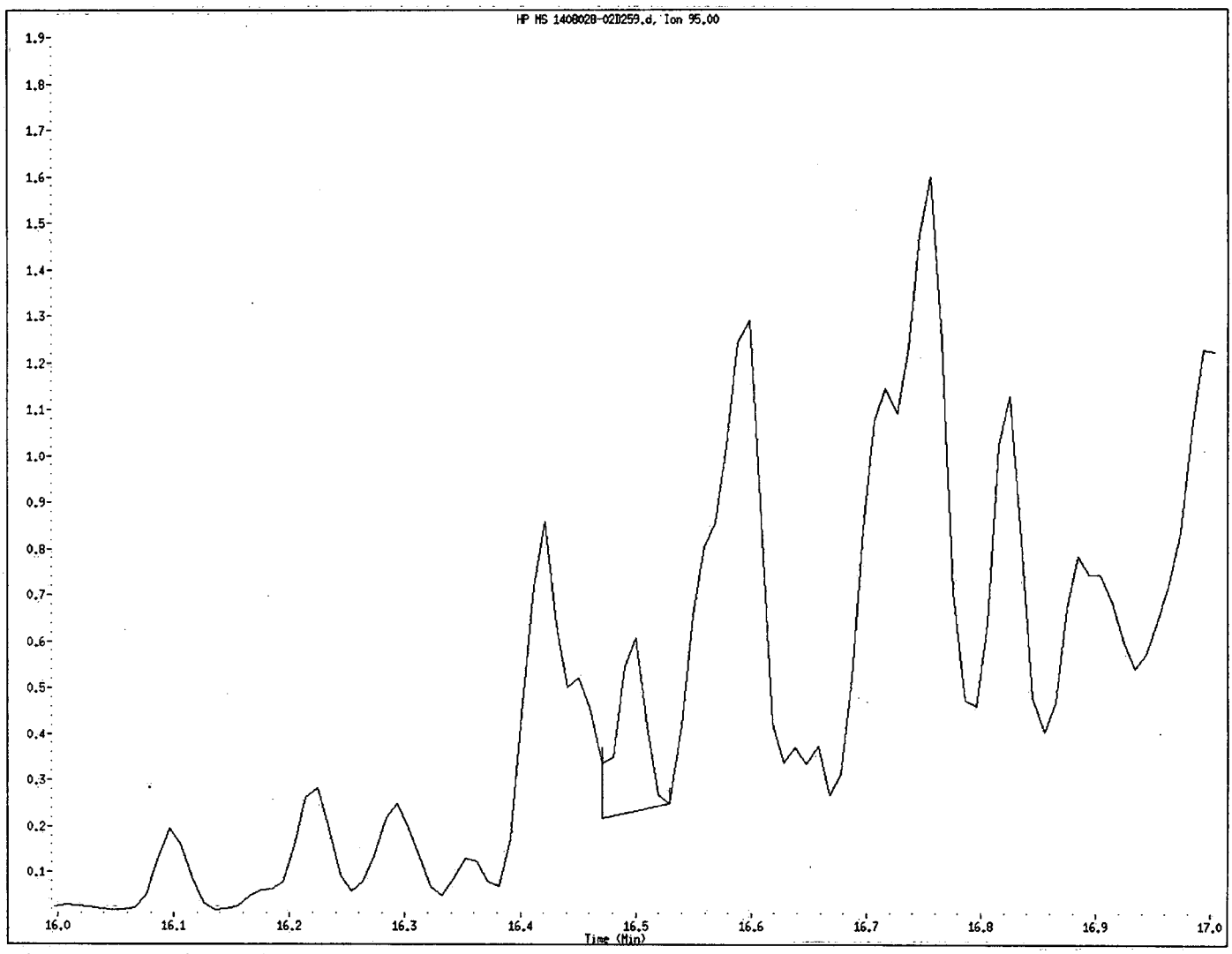
Bromofluorobenzene CAS Number 460-00-4 Area = 67095 User selected hit



File name: /chem/5972hp59.i/D4H15005A59.b/1408028-02D259.d
Client ID: P001-DR0502-LW-01RE
Instrument ID: 5972hp59.i
Injection Date and Time: 15-AUG-2014 16:42
Retention Time: 16.50
Operator ID: JAO

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L. Initial Calibration and Second Source Calibration Verification Data

(INITIAL CALIBRATION DATA) (SECOND-SOURCE CALIBRATION VERIFICATION)

If more than one instrument is used, forms shall be arranged in order by instrument. Multiple initial calibrations from the same instrument shall be in chronological order. Within each initial calibration, the standards are in order by level, from lowest to highest. The calibration is followed by the second source calibration verification form.

(1) RICs and Quantitation reports for the initial calibration and the second source calibration verification. Spectra not required.

(2) EICPs displaying each manual integration.

INITIAL CALIBRATION DATA

SW 8260B

Client: WESTON SOLUTIONS SDG: 1408028

Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Calibration: 4081203 Instrument: 5972hp59

Calibration Date: 8/11/2014 1:58:23PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
Dichlorodifluoromethane	5	0.3513147	10	0.363159	20	0.3129638	50	0.3339328	100	0.3351162	200	0.2875017
Chloromethane	5	0.3030251	10	0.317772	20	0.2510039	50	0.2670932	100	0.2844673	200	0.2949715
Vinyl chloride	5	0.1804234	10	0.1622733	20	0.1581551	50	0.1840783	100	0.183227	200	0.1683116
Bromomethane	5	0.0875999	10	8.493095E-02	20	6.293795E-02	50	7.033169E-02	100	9.204189E-02	200	7.581688E-02
Chloroethane	5	7.991703E-02	10	5.867381E-02	20	7.533569E-02	50	7.228375E-02	100	7.561367E-02	200	7.231435E-02
Trichlorofluoromethane	5	0.2564894	10	0.2730182	20	0.2655255	50	0.2793468	100	0.281866	200	0.2794083
1,1-Dichloroethene	5	0.1862189	10	0.2084562	20	0.1903096	50	0.2131968	100	0.2174985	200	0.2081785
Acetone	12.5	6.179844E-02	25	5.122268E-02	50	4.729359E-02	125	4.285168E-02	250	5.055059E-02	500	~~3.823338E-02~~
1,1,2-Trichloro-1,2,2-trifluoroethar	5	0.2564894	10	0.2730182	20	0.2655255	50	0.2793468	100	0.281866	200	0.2794083
Carbon disulfide	5	0.7435411	10	0.7507209	20	0.7483661	50	0.8016235	100	0.8374059	200	0.7904372
Methyl acetate	5	0.2656974	10	0.2319185	20	0.2115191	50	0.2119082	100	0.2338919	200	0.1945398
Methylene chloride	5	0.2580718	10	0.2480997	20	0.2425134	50	0.251564	100	0.2569718	200	0.2534295
trans-1,2-Dichloroethene	5	0.216245	10	0.2336641	20	0.2216971	50	0.2392755	100	0.2396454	200	0.2290287
Methyl tert-butyl ether	5	0.5028749	10	0.5404557	20	0.4843988	50	0.5302194	100	0.5306015	200	0.4991525
1,1-Dichloroethane	5	0.3946475	10	0.4225564	20	0.3884673	50	0.4170454	100	0.417069	200	0.4002523
cis-1,2-Dichloroethene	5	0.2385691	10	0.2633131	20	0.2466316	50	0.2685441	100	0.2643098	200	0.2597351
2-Butanone	12.5	0.1014519	25	0.1064613	50	8.700471E-02	125	8.977509E-02	250	8.474056E-02	500	7.371357E-02
Chloroform	5	0.3900149	10	0.4397687	20	0.3791906	50	0.4197116	100	0.4091943	200	0.4099916
1,1,1-Trichloroethane	5	0.2923873	10	0.3197528	20	0.3115352	50	0.3272193	100	0.3306771	200	0.3328874
Cyclohexane	5	0.2105829	10	0.2262926	20	0.2191993	50	0.2529923	100	0.2645744	200	0.2508974
Carbon tetrachloride	5	0.2777269	10	0.2995467	20	0.2884464	50	0.3081911	100	0.3112229	200	0.3063694
1,2-Dichloroethane	5	0.2707876	10	0.2930796	20	0.2585739	50	0.2785925	100	0.2692424	200	0.2596031
Benzene	5	0.8376037	10	0.8860315	20	0.8354092	50	0.8938608	100	0.919596	200	0.8831629
Trichloroethene	5	0.2370821	10	0.2456395	20	0.2370241	50	0.2512602	100	0.2497025	200	0.251611
Methylcyclohexane	5	0.1976383	10	0.2207662	20	0.2115574	50	0.2401328	100	0.2627187	200	0.2470862
1,2-Dichloropropane	5	0.2458707	10	0.2495197	20	0.2278816	50	0.2300442	100	0.2220092	200	0.1946138
Bromodichloromethane	5	0.3143874	10	0.3329131	20	0.3087593	50	0.3318707	100	0.3419572	200	0.3261204

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INITIAL CALIBRATION DATA

SW 8260B

Client: WESTON SOLUTIONS SDG: 1408028

Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Calibration: 4081203 Instrument: 5972hp59

Calibration Date: 8/11/2014 1:58:23PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
cis-1,3-Dichloropropene	5	0.338046	10	0.3618746	20	0.315989	50	0.3739413	100	0.3734126	200	0.3627831
4-Methyl-2-pentanone	12.5	0.2469255	25	0.267586	50	0.2510204	125	0.257656	250	0.228062	500	0.2118507
Toluene	5	0.6224444	10	0.5972934	20	0.6175764	50	0.6704913	100	0.6686039	200	0.6487133
trans-1,3-Dichloropropene	5	0.3811493	10	0.338544	20	0.330748	50	0.3883216	100	0.3653227	200	0.3435542
1,1,2-Trichloroethane	5	0.2488804	10	0.2324668	20	0.2248694	50	0.241476	100	0.2302765	200	0.2212345
Tetrachloroethene	5	0.2095824	10	0.2079583	20	0.2028959	50	0.2416295	100	0.2414491	200	0.2300284
2-Hexanone	12.5	0.1788914	25	0.2129876	50	0.1702833	125	0.1899402	250	0.1762137	500	0.1427097
Dibromochloromethane	5	0.2811018	10	0.3013378	20	0.2951387	50	0.3253792	100	0.3069098	200	0.3062155
1,2-Dibromoethane	5	0.2667492	10	0.2654471	20	0.2551586	50	0.2732677	100	0.2583525	200	0.2520868
Chlorobenzene	5	0.7956699	10	0.7742748	20	0.7589607	50	0.8086631	100	0.8104909	200	0.7444864
Ethylbenzene	5	0.3707111	10	0.3393214	20	0.3667012	50	0.3745186	100	0.3996559	200	0.3721722
m,p-Xylene	10	0.4789743	20	0.4338271	40	0.4387247	100	0.5021259	200	0.5044332	400	0.4619483
o-Xylene	5	0.4377191	10	0.4371461	20	0.4318686	50	0.4759706	100	0.4959022	200	0.4488243
Styrene	5	0.7035616	10	0.7224671	20	0.7222982	50	0.8057697	100	0.8246783	200	0.7659278
Bromoform	5	0.3640368	10	0.4117368	20	0.3616306	50	0.4102462	100	0.3918225	200	0.3866514
Isopropylbenzene	5	0.9901921	10	0.9924491	20	1.008532	50	1.152139	100	1.215874	200	1.151526
1,1,2,2-Tetrachloroethane	5	0.7387444	10	0.8018289	20	0.6858236	50	0.7175815	100	0.6983702	200	0.6445638
1,3-Dichlorobenzene	5	1.217743	10	1.149457	20	1.1465	50	1.274979	100	1.286228	200	1.248864
1,4-Dichlorobenzene	5	1.276797	10	1.202225	20	1.16737	50	1.291118	100	1.31732	200	1.25834
1,2-Dichlorobenzene	5	1.154585	10	1.071299	20	1.034133	50	1.184685	100	1.198762	200	1.098421
1,2-Dibromo-3-chloropropane	5	0.1142774	10	0.1347983	20	0.1231287	50	0.1262766	100	0.1283303	200	0.1123288
1,2,4-Trichlorobenzene	5	0.7698446	10	0.7079927	20	0.6796585	50	0.7938706	100	0.8065819	200	0.7877331
Xylenes (total)	15	0.4652226	30	0.4349334	60	0.4364393	150	0.4934075	300	0.5015896	600	0.4575736
Dibromofluoromethane	5	0.2841516	10	0.3127159	20	0.2825304	50	0.2733928	100	0.2720311	200	0.2807823
1,2-Dichloroethane-d4	5	0.2539348	10	0.2747186	20	0.2445509	50	0.2268368	100	0.2256425	200	0.2204578
Toluene-d8	5	1.030972	10	1.075842	20	0.9611364	50	1.03745	100	0.991771	200	1.02817
Bromofluorobenzene	5	0.7748152	10	0.8317888	20	0.7996937	50	0.7922156	100	0.7814277	200	0.8094587

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INITIAL CALIBRATION DATA (Continued)

SW 8260B

Client: WESTON SOLUTIONS SDG: 1408028

Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Calibration: 4081203 Instrument: 5972hp59

Calibration Date: 8/11/2014 1:58:23PM

Compound	Mean RF	% RSD	Mean RT	RT RSD	Linear r	Quad COD	RSD LIMIT	Q
Dichlorodifluoromethane	0.3306647	8.214676	4.181167	5.727986E-02			CCC (15)	
Chloromethane	0.2863888	8.500741	4.670833	0.1440777			CCC (15)	
Vinyl chloride	0.1727448	6.546555	4.9635	0.1191118			CCC (30)	
Bromomethane	7.894321E-02	14.13378	5.908667	0.3496826			CCC (15)	
Chloroethane	7.235638E-02	10.03997	6.2045	0.1932364			CCC (15)	
Trichlorofluoromethane	0.272609	3.622132	8.341	0.1256134			CCC (15)	
1,1-Dichloroethene	0.2039764	6.231018	8.382166	8.165967E-02			CCC (30)	
Acetone	0.0507434	13.81814	8.564	0.0474308			CCC (15)	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.272609	3.622132	8.341	0.1256134			CCC (15)	
Carbon disulfide	0.7786825	4.821827	8.889833	4.514961E-02			CCC (15)	
Methyl acetate	0.2249125	11.00662	9.251333	0.0443635			CCC (15)	
Methylene chloride	0.251775	2.307251	9.507833	4.157838E-02			CCC (15)	
trans-1,2-Dichloroethene	0.229926	4.133096	9.978	5.448146E-02			CCC (15)	
Methyl tert-butyl ether	0.5146171	4.307324	9.953333	4.268428E-02			CCC (15)	
1,1-Dichloroethane	0.406673	3.451715	10.7455	4.435573E-02			CCC (15)	
cis-1,2-Dichloroethene	0.2568505	4.544033	11.61667	2.417234E-02			CCC (15)	
2-Butanone	9.052452E-02	13.09307	11.60667	1.864815E-02			CCC (15)	
Chloroform	0.4079786	5.263018	12.011	0.0269008			CCC (30)	
1,1,1-Trichloroethane	0.3190765	4.776208	12.24267	4.761563E-02			CCC (15)	
Cyclohexane	0.2374232	9.106926	12.27217	4.958073E-02			CCC (15)	
Carbon tetrachloride	0.2985839	4.370266	12.41683	3.528831E-02			CCC (15)	
1,2-Dichloroethane	0.2716465	4.743208	12.721	2.028136E-02			CCC (15)	
Benzene	0.875944	3.784062	12.66183	1.814962E-02			CCC (15)	
Trichloroethene	0.2453866	2.768899	13.36033	2.508287E-02			CCC (15)	
Methylcyclohexane	0.2299833	10.53973	13.533	3.268968E-02			CCC (15)	
1,2-Dichloropropane	0.2283232	8.61945	13.61017	2.635624E-02			CCC (30)	
Bromodichloromethane	0.3260014	3.804159	13.85183	3.753253E-02			CCC (15)	

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INITIAL CALIBRATION DATA (Continued)

SW 8260B

Client: WESTON SOLUTIONS SDG: 1408028

Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Calibration: 4081203 Instrument: 5972hp59

Calibration Date: 8/11/2014 1:58:23PM

Compound	Mean RF	% RSD	Mean RT	RT RSD	Linear r	Quad COD	RSD LIMIT	Q
cis-1,3-Dichloropropene	0.3543411	6.450704	14.25117	3.078818E-02			CCC (15)	
4-Methyl-2-pentanone	0.2438501	8.380439	14.3365	1.227761E-02			CCC (15)	
Toluene	0.6375204	4.664669	14.52567	1.542295E-02			CCC (30)	
trans-1,3-Dichloropropene	0.35794	6.656899	14.71133	1.808778E-02			CCC (15)	
1,1,2-Trichloroethane	0.2332006	4.439948	14.86917	1.586593E-02			CCC (15)	
Tetrachloroethene	0.2222573	7.906399	14.97583	0.0324141			CCC (15)	
2-Hexanone	0.1785043	12.95556	14.999	1.292677E-02			CCC (15)	
Dibromochloromethane	0.3026805	4.832907	15.1945	1.797523E-02			CCC (15)	
1,2-Dibromoethane	0.2618436	3.053495	15.31283	1.186326E-02			CCC (15)	
Chlorobenzene	0.782091	3.481639	15.65967	1.128522E-02			CCC (15)	
Ethylbenzene	0.3705134	5.19938	15.68917	1.752845E-02			CCC (30)	
m,p-Xylene	0.4700056	6.488204	15.76983	2.658179E-02			CCC (15)	
o-Xylene	0.4545718	5.653494	16.08367	8.310831E-03			CCC (15)	
Styrene	0.7574505	6.545324	16.092	3.985397E-03			CCC (15)	
Bromoform	0.3876874	5.584573	16.29083	2.210071E-02			CCC (15)	
Isopropylbenzene	1.085119	9.16594	16.33017	1.298754E-02			CCC (15)	
1,1,2,2-Tetrachloroethane	0.7144854	7.458007	16.567	8.503808E-03			CCC (15)	
1,3-Dichlorobenzene	1.220628	4.999886	17.36567	1.987999E-02			CCC (15)	
1,4-Dichlorobenzene	1.252195	4.530487	17.43467	1.899544E-02			CCC (15)	
1,2-Dichlorobenzene	1.123647	5.864892	17.77817	1.315562E-02			CCC (15)	
1,2-Dibromo-3-chloropropane	0.12319	6.965073	18.47683	2.285639E-02			CCC (15)	
1,2,4-Trichlorobenzene	0.7576136	6.809734	19.35767	2.299718E-02			CCC (15)	
Xylenes (total)	0.464861	6.023757	16.08367	8.310831E-03			CCC (15)	
Dibromofluoromethane	0.2842674	5.199892	12.20817	2.535694E-02			CCC (15)	
1,2-Dichloroethane-d4	0.2410236	8.653941	12.63217	1.300017E-02			CCC (15)	
Toluene-d8	1.02089	3.885444	14.468	3.131023E-02			CCC (15)	
Bromofluorobenzene	0.7982333	2.580342	16.501	2.642773E-02			CCC (15)	

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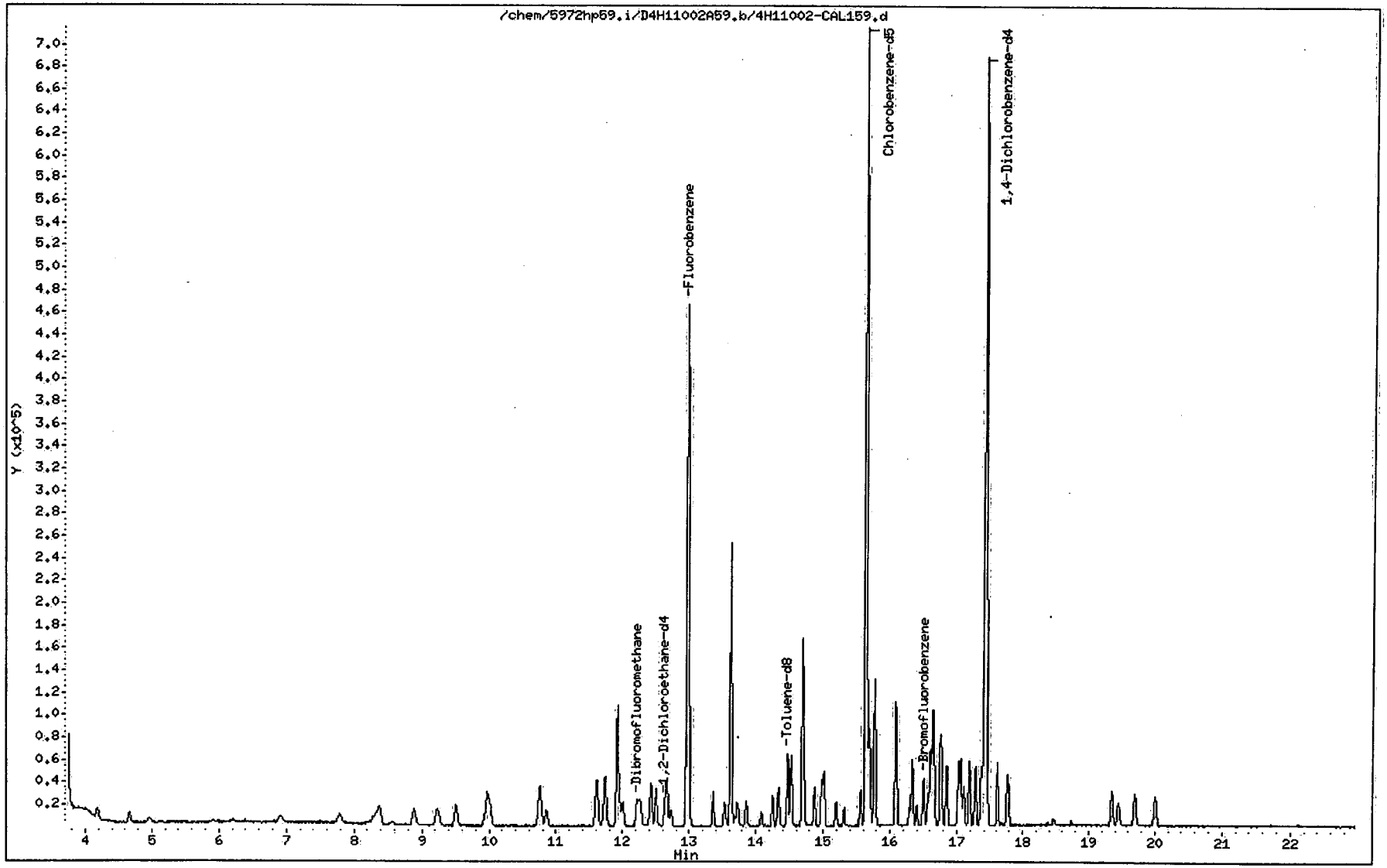
Data File: /chem/5972hp59.i/D4H11002A59.b/4H11002-CAL159.d
Date : 11-AUG-2014 14:57
Client ID: VSTD005FT
Sample Info: 4H11002-CAL1:JAO
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5972hp59.i
Operator: JAO
Column diameter: 0.32



8/12/2014

Data File: /chem/5972hp59.i/D4H11002A59.b/4H11002-CAL159.d
Report Date: 12-Aug-2014 11:28

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp59.i/D4H11002A59.b/4H11002-CAL159.d
Lab Smp Id: 4H11002-CAL1 Client Smp ID: VSTD005FT
Inj Date : 11-AUG-2014 14:57
Operator : JAO Inst ID: 5972hp59.i
Smp Info : 4H11002-CAL1:JAO
Misc Info : VSTD005FT
Comment :
Method : /chem/5972hp59.i/D4H11002A59.b/8260B_5ppbv5.m
Meth Date : 12-Aug-2014 11:28 ron Quant Type: ISTD
Cal Date : 11-AUG-2014 14:57 Cal File: 4H11002-CAL159.d
Als bottle: 5 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DC.sub
Target Version: 3.50
Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	5.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	12.976	12.976	(1.000)	524544	250.000	
* 2 Chlorobenzene-d5	117	15.638	15.638	(1.000)	452185	250.000	
* 3 1,4-Dichlorobenzene-d4	152	17.413	17.413	(1.000)	219291	250.000	
$ 4 Dibromofluoromethane	113	12.207	12.207	(0.941)	14905	25.0000	25.0000
$ 5 1,2-Dichloroethane-d4	65	12.631	12.631	(0.973)	13320	25.0000	25.0000
$ 6 Toluene-d8	98	14.465	14.465	(0.925)	46619	25.0000	25.0000
$ 7 Bromofluorobenzene	95	16.506	16.506	(0.948)	16991	25.0000	25.0000
8 Dichlorodifluoromethane	85	4.180	4.180	(0.322)	18428	25.0000	25.0000
9 Chloromethane	50	4.673	4.673	(0.360)	15895	25.0000	25.0000
10 Vinyl Chloride	62	4.959	4.959	(0.382)	9464	25.0000	25.0000
11 Bromomethane	94	5.925	5.925	(0.457)	4595	25.0000	25.0000(M)
12 Chloroethane	64	6.211	6.211	(0.479)	4192	25.0000	25.0000
13 Trichlorofluoromethane	101	8.341	8.341	(0.643)	13454	25.0000	25.0000
14 Acrolein	56	8.193	8.193	(0.631)	3729	250.000	250.000
15 1,1,1-trichloro-2,2,2-trifluo	117	8.272	8.272	(0.637)	4254	25.0000	25.0000

8/12/2014

Data File: /chem/5972hp59.i/D4H11002A59.b/4H11002-CAL159.d
Report Date: 12-Aug-2014 11:28

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
16 1,1,2-trichloro-1,2,2-trifluo	101	8.341	8.341	(0.643)	13454	25.0000	25.0000
17 1,1-Dichloroethene	96	8.381	8.381	(0.646)	9768	25.0000	25.0000
18 Acetone	43	8.568	8.568	(0.660)	8104	62.5000	62.5000
19 Iodomethane	142	8.765	8.765	(0.675)	2060	25.0000	25.0000(M)
20 Carbon disulfide	76	8.893	8.893	(0.685)	39002	25.0000	25.0000
21 3-Chloropropene	76	9.229	9.229	(0.711)	5136	25.0000	25.0000
22 Acetonitrile	41	9.229	9.229	(0.711)	15017	25.0000	25.0000
23 Methyl acetate	43	9.248	9.248	(0.713)	13937	25.0000	25.0000
24 Methylene Chloride	84	9.505	9.505	(0.732)	13537	25.0000	25.0000
25 Acrylonitrile	53	10.018	10.018	(0.772)	24569	250.000	250.000
26 Methyl-tert-butyl ether	73	9.958	9.958	(0.767)	26378	25.0000	25.0000
28 trans-1,2-Dichloroethene	96	9.978	9.978	(0.769)	11343	25.0000	25.0000
29 trans-1,2-DCE (part of total)	96	9.978	9.978	(0.769)	11343	25.0000	25.0000
31 Isopropyl ether	45	10.757	10.757	(0.829)	35891	25.0000	25.0000
32 1,1-Dichloroethane	63	10.747	10.747	(0.828)	20701	25.0000	25.0000
33 Vinyl acetate	43	10.757	10.757	(0.829)	16631	25.0000	25.0000(M)
34 Chloroprene	53	10.856	10.856	(0.837)	12725	25.0000	25.0000
35 2-butanone	43	11.605	11.605	(0.894)	13304	62.5000	62.5000
36 2,2-Dichloropropane	77	11.595	11.595	(0.894)	15813	25.0000	25.0000
37 cis-1,2-Dichloroethene	96	11.615	11.615	(0.895)	12514	25.0000	25.0000
38 cis-1,2-DCE (part of total)	96	11.615	11.615	(0.895)	12514	25.0000	25.0000
39 Propionitrile	54	11.743	11.743	(0.905)	57997	1250.00	1250.00
40 Methacrylonitrile	41	11.921	11.921	(0.919)	66808	250.000	250.000
41 Bromochloromethane	128	11.940	11.940	(0.920)	6255	25.0000	25.0000
42 Chloroform	83	12.009	12.009	(0.926)	20458	25.0000	25.0000
43 1,1,1-Trichloroethane	97	12.236	12.236	(0.943)	15337	25.0000	25.0000
44 Cyclohexane	56	12.266	12.266	(0.945)	11046	25.0000	25.0000
46 1,1-dichloropropene	75	12.424	12.424	(0.957)	14339	25.0000	25.0000
47 Isobutyl alcohol	43	12.493	12.493	(0.963)	25208	1250.00	1250.00
48 Carbon Tetrachloride	117	12.414	12.414	(0.957)	14568	25.0000	25.0000
49 Benzene	78	12.660	12.660	(0.976)	43936	25.0000	25.0000
50 1,2-Dichloroethane	62	12.719	12.719	(0.980)	14204	25.0000	25.0000
51 Trichloroethene	130	13.360	13.360	(1.030)	12436	25.0000	25.0000
52 Methylcyclohexane	83	13.528	13.528	(1.043)	10367	25.0000	25.0000
53 Methylmethacrylate	100	13.627	13.627	(1.050)	40616	250.000	250.000
54 1,2-Dichloropropane	63	13.617	13.617	(1.049)	12897	25.0000	25.0000
55 1,4-dioxane	88	13.696	13.696	(1.055)	6160	1250.00	1250.00
56 Dibromomethane	174	13.735	13.735	(1.059)	7502	25.0000	25.0000
57 Bromodichloromethane	83	13.854	13.854	(1.068)	16491	25.0000	25.0000
58 cis-1,3-Dichloropropene	75	14.248	14.248	(1.098)	17732	25.0000	25.0000
59 4-Methyl-2-pentanone	43	14.337	14.337	(0.917)	27914	62.5000	62.5000
60 Toluene	92	14.524	14.524	(0.929)	28146	25.0000	25.0000
61 Ethylmethacrylate	99	14.692	14.692	(0.939)	15702	250.000	250.000
62 trans-1,3-Dichloropropene	75	14.711	14.711	(0.941)	17235	25.0000	25.0000
63 1,1,2-Trichloroethane	97	14.869	14.869	(0.951)	11254	25.0000	25.0000
64 2-hexanone	43	14.997	14.997	(0.959)	20223	62.5000	62.5000
65 2-chloroethyl vinyl ether	63	14.080	14.080	(1.085)	4331	25.0000	25.0000

Robin Hamm 8/12/2014

Data File: /chem/5972hp59.i/D4H11002A59.b/4H11002-CAL159.d
Report Date: 12-Aug-2014 11:28

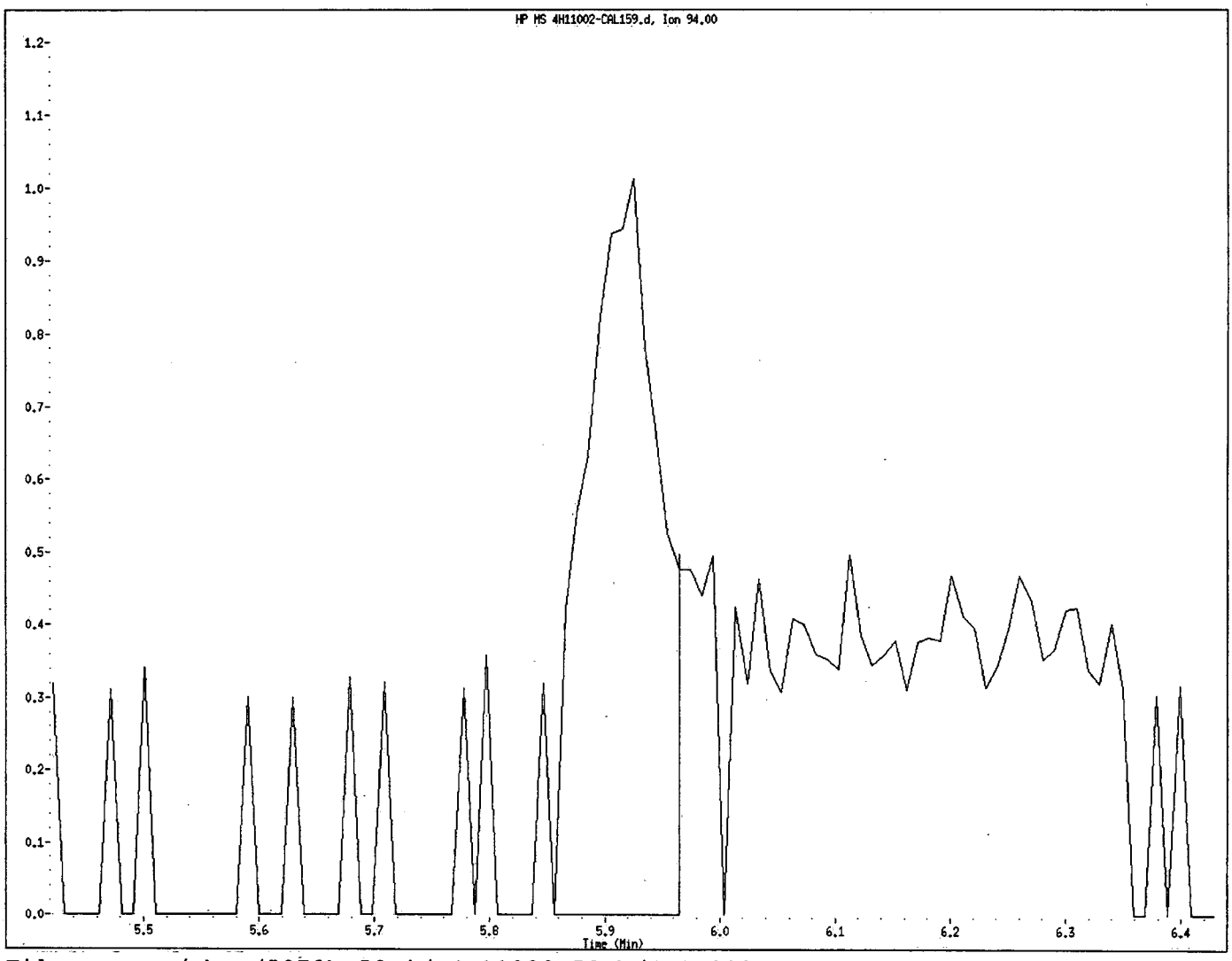
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
66 1,3-Dichloropropane	76	15.017	15.017	(0.960)	17370	25.0000	25.0000
67 Tetrachloroethene	164	14.978	14.978	(0.958)	9477	25.0000	25.0000
68 Dibromochloromethane	129	15.195	15.195	(0.972)	12711	25.0000	25.0000
69 1,2-Dibromoethane	107	15.313	15.313	(0.979)	12062	25.0000	25.0000
70 1-Chlorohexane	55	15.560	15.560	(0.995)	8276	25.0000	25.0000
71 Chlorobenzene	112	15.658	15.658	(1.001)	35979	25.0000	25.0000
72 Ethylbenzene	106	15.688	15.688	(1.003)	16763	25.0000	25.0000
73 1,1,1,2-Tetrachloroethane	131	15.707	15.707	(1.004)	12389	25.0000	25.0000
74 m,p-Xylene	106	15.767	15.767	(1.008)	43317	50.0000	50.0000
75 m,p-Xylene (part of total)	106	15.767	15.767	(1.008)	43317	50.0000	50.0000
76 o-Xylene	106	16.082	16.082	(1.028)	19793	25.0000	25.0000
77 o-Xylene (part of total)	106	16.082	16.082	(1.028)	19793	25.0000	25.0000
78 Styrene	104	16.092	16.092	(1.029)	31814	25.0000	25.0000
79 Bromoform	173	16.289	16.289	(0.935)	7983	25.0000	25.0000(M)
80 Isopropyl Benzene	105	16.329	16.329	(1.044)	44775	25.0000	25.0000
81 1,1,2,2-Tetrachloroethane	83	16.565	16.565	(0.951)	16200	25.0000	25.0000
82 trans-1,4-dichloro-2-butene	53	16.595	16.595	(1.061)	15526	100.000	100.000
83 1,2,3-Trichloropropane	110	16.634	16.634	(1.064)	3931	25.0000	25.0000
84 Bromobenzene	156	16.654	16.654	(1.065)	14349	25.0000	25.0000
85 n-Propyl Benzene	91	16.634	16.634	(0.955)	66990	25.0000	25.0000
86 1,3,5-Trimethyl Benzene	105	16.743	16.743	(0.961)	38331	25.0000	25.0000
87 2-Chlorotoluene	91	16.763	16.763	(0.963)	42288	25.0000	25.0000
88 4-Chlorotoluene	91	16.851	16.851	(0.968)	39664	25.0000	25.0000
89 tert-Butyl Benzene	119	17.019	17.019	(0.977)	38894	25.0000	25.0000
90 1,2,4-Trimethyl Benzene	105	17.058	17.058	(0.980)	41185	25.0000	25.0000
91 Pentachloroethane	167	17.108	17.108	(0.982)	7751	25.0000	25.0000
92 sec-Butyl Benzene	105	17.187	17.187	(0.987)	51351	25.0000	25.0000
93 p-Isopropyl Toluene	119	17.275	17.275	(0.992)	39602	25.0000	25.0000
94 1,3-Dichlorobenzene	146	17.364	17.364	(0.997)	26704	25.0000	25.0000
95 1,4-Dichlorobenzene	146	17.433	17.433	(1.001)	27999	25.0000	25.0000
96 n-Butyl Benzene	91	17.611	17.611	(1.011)	41605	25.0000	25.0000
97 1,2-Dichlorobenzene	146	17.778	17.778	(1.021)	25319	25.0000	25.0000
98 1,2-Dibromo-3-Chloropropane	157	18.469	18.469	(1.061)	2506	25.0000	25.0000
99 1,2,4-Trichlorobenzene	180	19.356	19.356	(1.112)	16882	25.0000	25.0000
100 Hexachlorobutadiene	225	19.455	19.455	(1.117)	6953	25.0000	25.0000
101 Naphthalene	128	19.701	19.701	(1.131)	37131	25.0000	25.0000
102 1,2,3-Trichlorobenzene	180	20.007	20.007	(1.149)	15699	25.0000	25.0000
M 103 1,2-Dichloroethene (total)	96				23857	50.0000	50.0000
M 104 Xylene (total)	106				63110	75.0000	75.0000

QC Flag Legend

M - Compound response manually integrated.

8/12/2014

Bromomethane CAS Number 74-83-9 Area = 4595 Manually integrated



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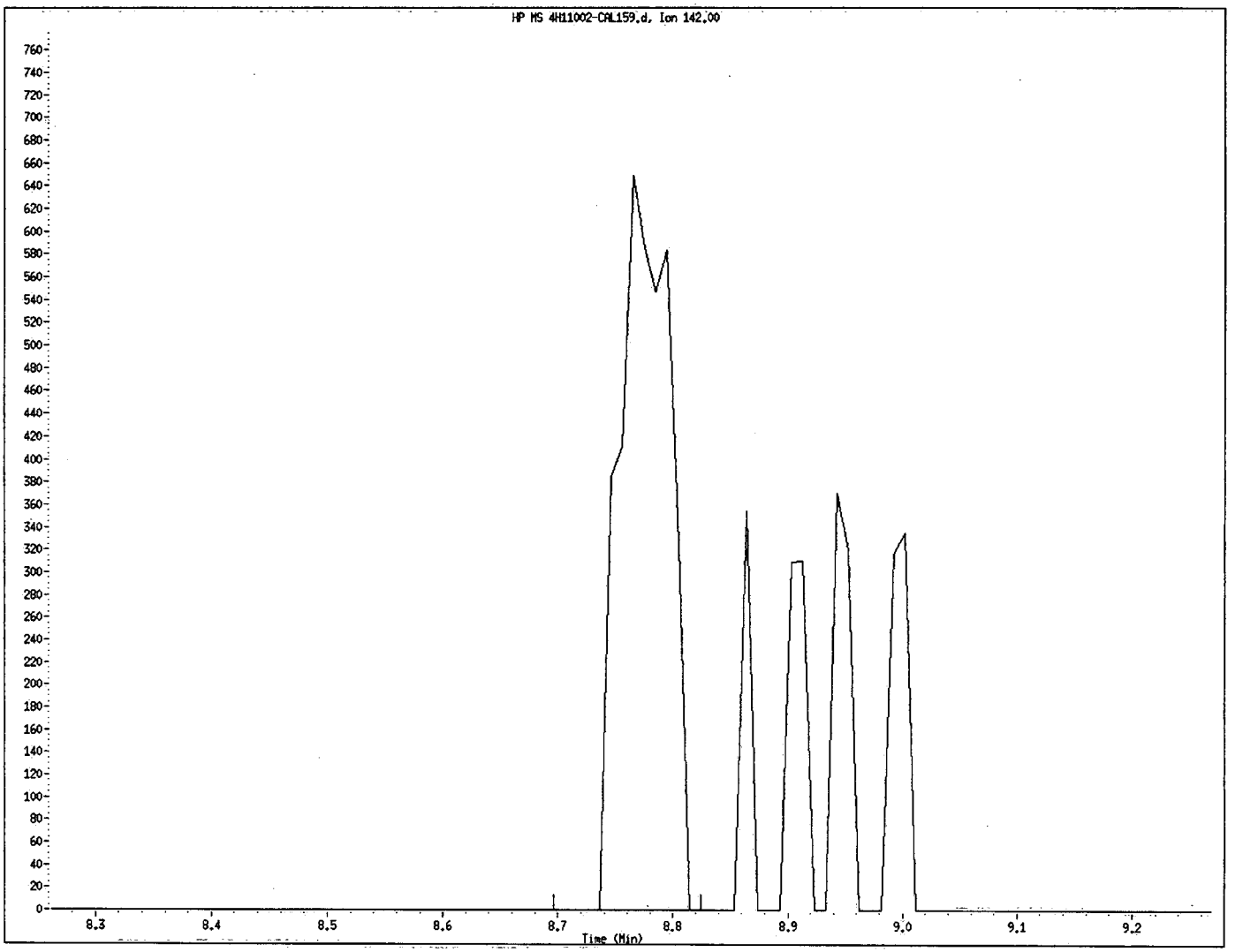
Client ID: VSTD005FT
Instrument ID: 5972hp59.i
Injection Date and Time: 11-AUG-2014 14:57
Retention Time: 5.93
Operator ID: JAO

8/12/2014

Iodomethane CAS Number 74-88-4 Area = 2060 Manually integrated



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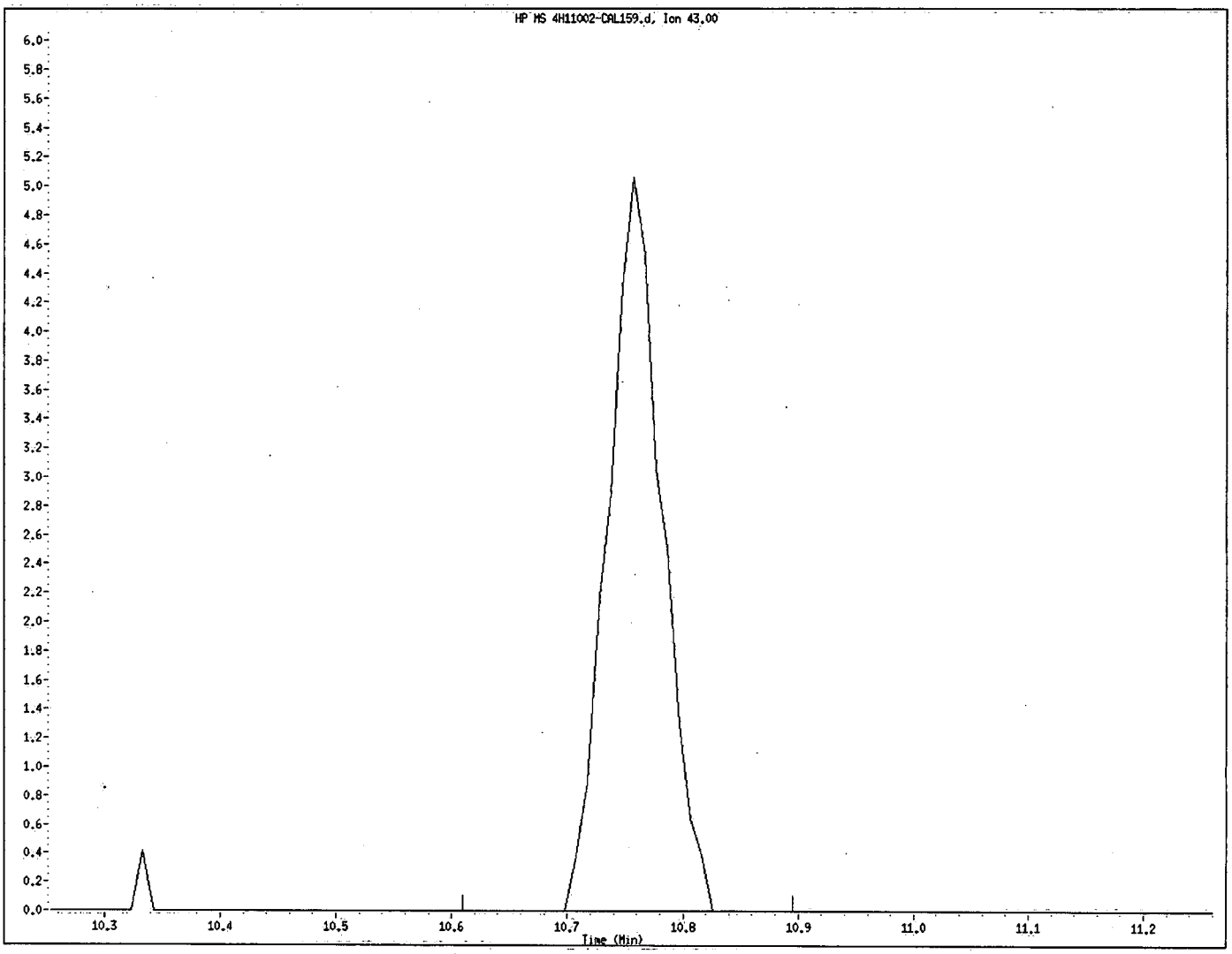
Client ID: VSTD005FT
Instrument ID: 5972hp59.i
Injection Date and Time: 11-AUG-2014 14:57
Retention Time: 8.77
Operator ID: JAO

8/12/2014

Vinyl acetate CAS Number 108-05-4 Area = 16631 Manually integrated



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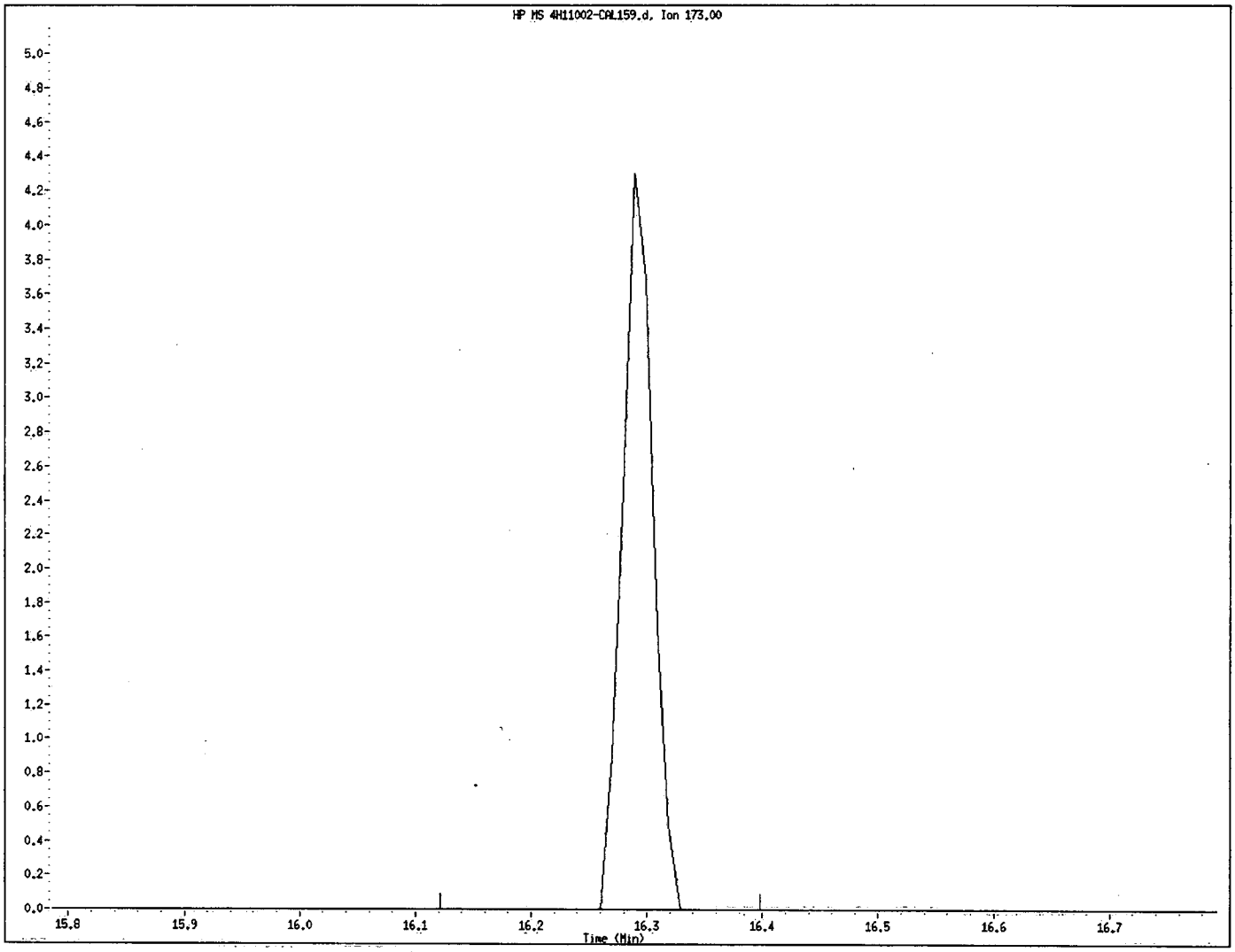
Client ID: VSTD005FT
Instrument ID: 5972hp59.i
Injection Date and Time: 11-AUG-2014 14:57
Retention Time: 10.76
Operator ID: JAO

Robin Ha 8/12/2014

Bromoform CAS Number 75-25-2 Area = 7983 Manually integrated

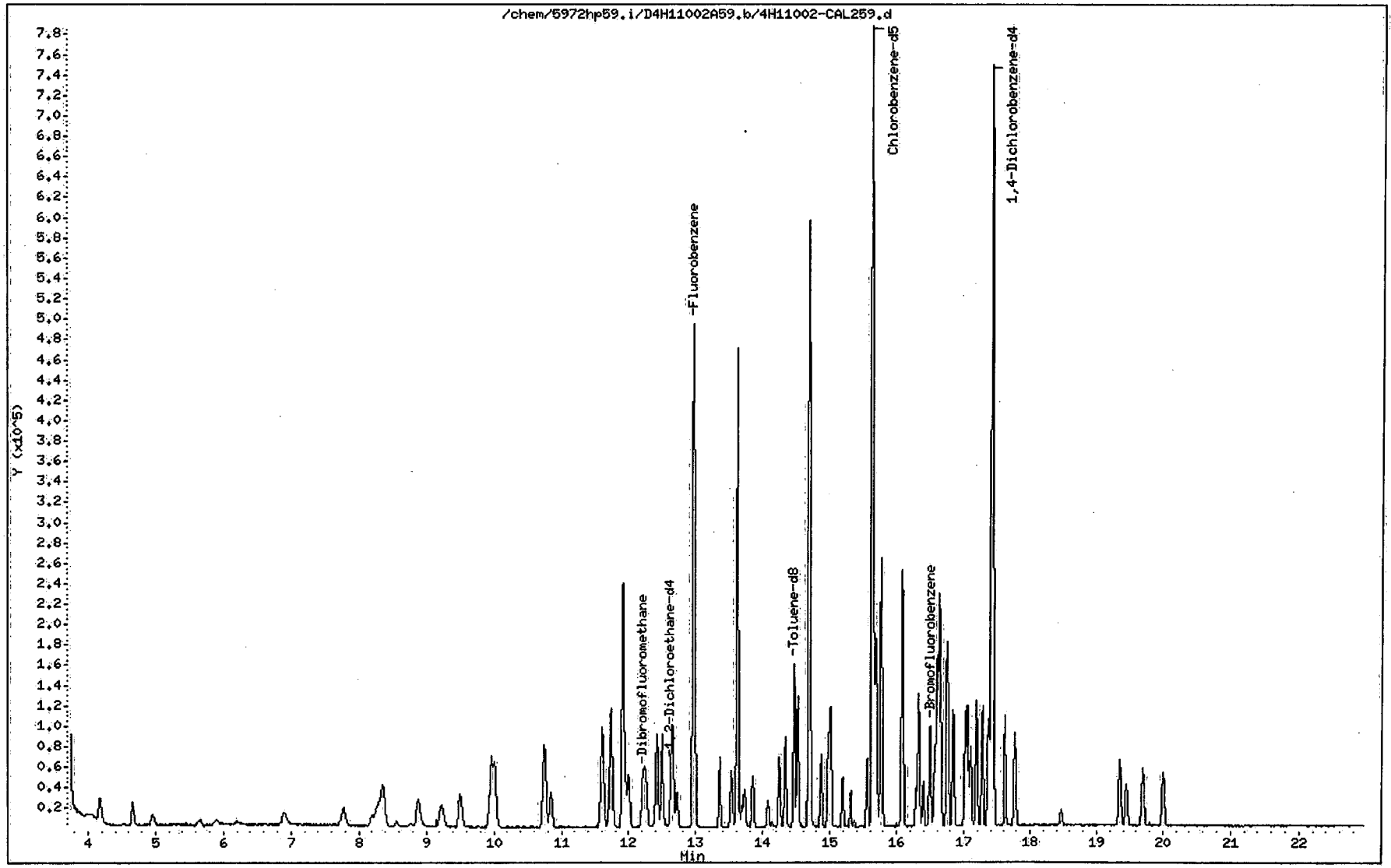


File name: /chem/5972hp59.i/D4H11002A59.b/4H11002-CAL159.d
Client ID: VSTD005FT
Instrument ID: 5972hp59.i
Injection Date and Time: 11-AUG-2014 14:57
Retention Time: 16.29
Operator ID: JAO

8/12/2014

Data File: /chem/5972hp59.i/D4H11002A59.b/4H11002-CAL259.d
Date : 11-AUG-2014 14:26
Client ID: VSTD010FT
Sample Info: 4H11002-CAL2:JAO
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5972hp59.i
Operator: JAO
Column diameter: 0.32



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Data File: /chem/5972hp59.i/D4H11002A59.b/4H11002-CAL259.d
Report Date: 12-Aug-2014 11:29

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp59.i/D4H11002A59.b/4H11002-CAL259.d
Lab Smp Id: 4H11002-CAL2 Client Smp ID: VSTD010FT
Inj Date : 11-AUG-2014 14:26
Operator : JAO Inst ID: 5972hp59.i
Smp Info : 4H11002-CAL2:JAO
Misc Info : VSTD010FT
Comment :
Method : /chem/5972hp59.i/D4H11002A59.b/8260B_5ppbv5.m
Meth Date : 12-Aug-2014 11:29 ron Quant Type: ISTD
Cal Date : 11-AUG-2014 14:26 Cal File: 4H11002-CAL259.d
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DC.sub
Target Version: 3.50
Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	5.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
* 1 Fluorobenzene	96	12.966	12.966	(1.000)	552802	250.000	
* 2 Chlorobenzene-d5	117	15.638	15.638	(1.000)	501663	250.000	
* 3 1,4-Dichlorobenzene-d4	152	17.413	17.413	(1.000)	236316	250.000	
$ 4 Dibromofluoromethane	113	12.206	12.206	(0.941)	34574	50.0000	52.3929
$ 5 1,2-Dichloroethane-d4	65	12.630	12.630	(0.974)	30373	50.0000	51.9657
$ 6 Toluene-d8	98	14.464	14.464	(0.925)	107942	50.0000	51.0649
$ 7 Bromofluorobenzene	95	16.496	16.496	(0.947)	39313	50.0000	51.7731
8 Dichlorodifluoromethane	85	4.179	4.179	(0.322)	40151	50.0000	50.8289
9 Chloromethane	50	4.662	4.662	(0.360)	35133	50.0000	51.1877
10 Vinyl Chloride	62	4.958	4.958	(0.382)	17941	50.0000	47.3519
11 Bromomethane	94	5.895	5.895	(0.455)	9390	50.0000	49.2265(M)
12 Chloroethane	64	6.201	6.201	(0.478)	6487	50.0000	42.3360
13 Trichlorofluoromethane	101	8.321	8.321	(0.642)	30185	50.0000	51.5608
14 Acrolein	56	8.193	8.193	(0.632)	18027	500.000	696.379
15 1,1,1-trichloro-2,2,2-trifluo	117	8.272	8.272	(0.638)	9695	50.0000	51.9523

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Data File: /chem/5972hp59.i/D4H11002A59.b/4H11002-CAL259.d
Report Date: 12-Aug-2014 11:29

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
16 1,1,2-trichloro-1,2,2-trifluo	101	8.321	8.321	(0.642)	30185	50.0000	51.5608
17 1,1-Dichloroethene	96	8.370	8.370	(0.646)	23047	50.0000	52.8172
18 Acetone	43	8.558	8.558	(0.660)	14158	125.000	113.303
19 Iodomethane	142	8.755	8.755	(0.675)	11119	50.0000	50.0000
20 Carbon disulfide	76	8.883	8.883	(0.685)	83000	50.0000	50.2402
21 3-Chloropropene	76	9.218	9.218	(0.711)	7360	50.0000	40.4721
22 Acetonitrile	41	9.218	9.218	(0.711)	22829	50.0000	41.9027
23 Methyl acetate	43	9.248	9.248	(0.713)	25641	50.0000	46.6059
24 Methylene Chloride	84	9.504	9.504	(0.733)	27430	50.0000	49.0149
25 Acrylonitrile	53	10.017	10.017	(0.773)	80237	500.000	500.000
26 Methyl-tert-butyl ether	73	9.948	9.948	(0.767)	59753	50.0000	51.8010
28 trans-1,2-Dichloroethene	96	9.968	9.968	(0.769)	25834	50.0000	51.9359
29 trans-1,2-DCE (part of total)	96	9.968	9.968	(0.769)	25834	50.0000	51.9359
31 Isopropyl ether	45	10.757	10.757	(0.830)	81865	50.0000	51.9732
32 1,1-Dichloroethane	63	10.737	10.737	(0.828)	46718	50.0000	51.7076
33 Vinyl acetate	43	10.757	10.757	(0.830)	38105	50.0000	52.0853(M)
34 Chloroprene	53	10.855	10.855	(0.837)	30963	50.0000	53.5840
35 2-butanone	43	11.605	11.605	(0.895)	29426	125.000	128.012
36 2,2-Dichloropropane	77	11.595	11.595	(0.894)	33241	50.0000	49.9333
37 cis-1,2-Dichloroethene	96	11.615	11.615	(0.896)	29112	50.0000	52.4651
38 cis-1,2-DCE (part of total)	96	11.615	11.615	(0.896)	29112	50.0000	52.4651
39 Propionitrile	54	11.743	11.743	(0.906)	159756	2500.00	2832.57
40 Methacrylonitrile	41	11.910	11.910	(0.919)	168982	500.000	545.462
41 Bromochloromethane	128	11.930	11.930	(0.920)	10226	50.0000	43.6823
42 Chloroform	83	12.009	12.009	(0.926)	48621	50.0000	52.9980
43 1,1,1-Trichloroethane	97	12.236	12.236	(0.944)	35352	50.0000	52.2352
44 Cyclohexane	56	12.265	12.265	(0.946)	25019	50.0000	51.7980
46 1,1-dichloropropene	75	12.423	12.423	(0.958)	32263	50.0000	51.6324
47 Isobutyl alcohol	43	12.492	12.492	(0.963)	68463	2500.00	2815.21
48 Carbon Tetrachloride	117	12.413	12.413	(0.957)	33118	50.0000	51.8899
49 Benzene	78	12.660	12.660	(0.976)	97960	50.0000	51.4048
50 1,2-Dichloroethane	62	12.719	12.719	(0.981)	32403	50.0000	51.9767
51 Trichloroethene	130	13.360	13.360	(1.030)	27158	50.0000	50.8864
52 Methylcyclohexane	83	13.528	13.528	(1.043)	24408	50.0000	52.7638
53 Methylmethacrylate	100	13.626	13.626	(1.051)	76902	500.000	473.214
54 1,2-Dichloropropane	63	13.607	13.607	(1.049)	27587	50.0000	50.3683
55 1,4-dioxane	88	13.695	13.695	(1.056)	16159	2500.00	2772.39
56 Dibromomethane	174	13.735	13.735	(1.059)	15539	50.0000	49.5642
57 Bromodichloromethane	83	13.843	13.843	(1.068)	36807	50.0000	51.4310
58 cis-1,3-Dichloropropene	75	14.248	14.248	(1.099)	40009	50.0000	51.7022
59 4-Methyl-2-pentanone	43	14.336	14.336	(0.917)	67119	125.000	130.019
60 Toluene	92	14.524	14.524	(0.929)	59928	50.0000	48.9690
61 Ethylmethacrylate	99	14.691	14.691	(0.939)	63283	500.000	500.000
62 trans-1,3-Dichloropropene	75	14.711	14.711	(0.941)	33967	50.0000	47.0400
63 1,1,2-Trichloroethane	97	14.869	14.869	(0.951)	23324	50.0000	48.2950
64 2-hexanone	43	14.997	14.997	(0.959)	53424	125.000	135.876
65 2-chloroethyl vinyl ether	63	14.080	14.080	(1.086)	10373	50.0000	53.1904

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Data File: /chem/5972hp59.i/D4H11002A59.b/4H11002-CAL259.d
Report Date: 12-Aug-2014 11:29

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
66 1,3-Dichloropropane	76	15.017	15.017	(0.960)	41329	50.0000	51.7452
67 Tetrachloroethene	164	14.967	14.967	(0.957)	20865	50.0000	49.8055
68 Dibromochloromethane	129	15.194	15.194	(0.972)	30234	50.0000	51.7372
69 1,2-Dibromoethane	107	15.313	15.313	(0.979)	26633	50.0000	49.8777
70 1-Chlorohexane	55	15.549	15.549	(0.994)	17058	50.0000	48.1577
71 Chlorobenzene	112	15.658	15.658	(1.001)	77685	50.0000	49.3186
72 Ethylbenzene	106	15.687	15.687	(1.003)	34045	50.0000	47.7896
73 1,1,1,2-Tetrachloroethane	131	15.707	15.707	(1.004)	26390	50.0000	48.9799
74 m,p-Xylene	106	15.766	15.766	(1.008)	87054	100.000	95.0540
75 m,p-Xylene (part of total)	106	15.766	15.766	(1.008)	87054	100.000	95.0540
76 o-Xylene	106	16.082	16.082	(1.028)	43860	50.0000	49.9673
77 o-Xylene (part of total)	106	16.082	16.082	(1.028)	43860	50.0000	49.9673
78 Styrene	104	16.092	16.092	(1.029)	72487	50.0000	50.6629
79 Bromoform	173	16.289	16.289	(0.935)	19460	50.0000	53.0744
80 Isopropyl Benzene	105	16.328	16.328	(1.044)	99575	50.0000	50.0569
81 1,1,2,2-Tetrachloroethane	83	16.565	16.565	(0.951)	37897	50.0000	52.0474
82 trans-1,4-dichloro-2-butene	53	16.595	16.595	(1.061)	37880	200.000	209.485
83 1,2,3-Trichloropropane	110	16.634	16.634	(1.064)	8721	50.0000	49.9964
84 Bromobenzene	156	16.654	16.654	(1.065)	30392	50.0000	48.8381
85 n-Propyl Benzene	91	16.634	16.634	(0.955)	136845	50.0000	48.6600
86 1,3,5-Trimethyl Benzene	105	16.742	16.742	(0.961)	81760	50.0000	49.7403
87 2-Chlorotoluene	91	16.762	16.762	(0.963)	88310	50.0000	49.2109
88 4-Chlorotoluene	91	16.841	16.841	(0.967)	81105	50.0000	48.6849
89 tert-Butyl Benzene	119	17.019	17.019	(0.977)	76667	50.0000	47.7693
90 1,2,4-Trimethyl Benzene	105	17.058	17.058	(0.980)	83322	50.0000	48.4186
91 Pentachloroethane	167	17.107	17.107	(0.982)	16782	50.0000	50.1142
92 sec-Butyl Benzene	105	17.186	17.186	(0.987)	103935	50.0000	48.4296
93 p-Isopropyl Toluene	119	17.275	17.275	(0.992)	87929	50.0000	50.7433
94 1,3-Dichlorobenzene	146	17.364	17.364	(0.997)	54327	50.0000	48.5577
95 1,4-Dichlorobenzene	146	17.433	17.433	(1.001)	56821	50.0000	48.4959
96 n-Butyl Benzene	91	17.610	17.610	(1.011)	78950	50.0000	46.8212
97 1,2-Dichlorobenzene	146	17.778	17.778	(1.021)	50633	50.0000	48.1291
98 1,2-Dibromo-3-Chloropropane	157	18.478	18.478	(1.061)	6371	50.0000	54.1194
99 1,2,4-Trichlorobenzene	180	19.356	19.356	(1.112)	33462	50.0000	47.9073
100 Hexachlorobutadiene	225	19.454	19.454	(1.117)	12809	50.0000	50.0000
101 Naphthalene	128	19.701	19.701	(1.131)	72571	50.0000	47.5568
102 1,2,3-Trichlorobenzene	180	20.006	20.006	(1.149)	30575	50.0000	47.4689
M 103 1,2-Dichloroethene (total)	96				54946	100.000	104.430
M 104 Xylene (total)	106				130914	150.000	145.021

QC Flag Legend

M - Compound response manually integrated.

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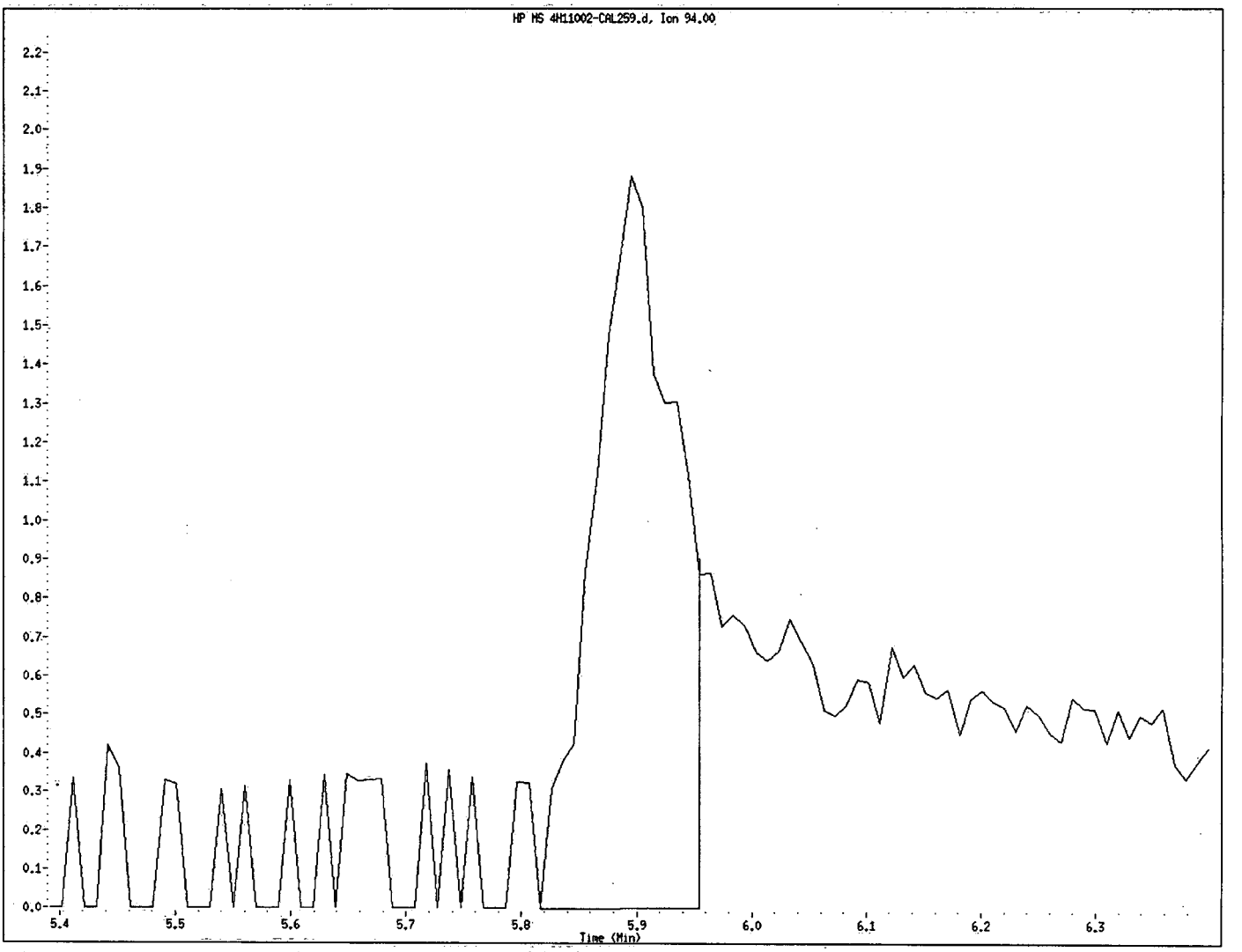
Bromomethane CAS Number 74-83-9 Area = 9390 Manually integrated



File name: /chem/5972hp59.i/D4H11002A59.b/4H11002-CAL259.d
Client ID: VSTD010FT
Instrument ID: 5972hp59.i
Injection Date and Time: 11-AUG-2014 14:26
Retention Time: 5.90
Operator ID: JAO

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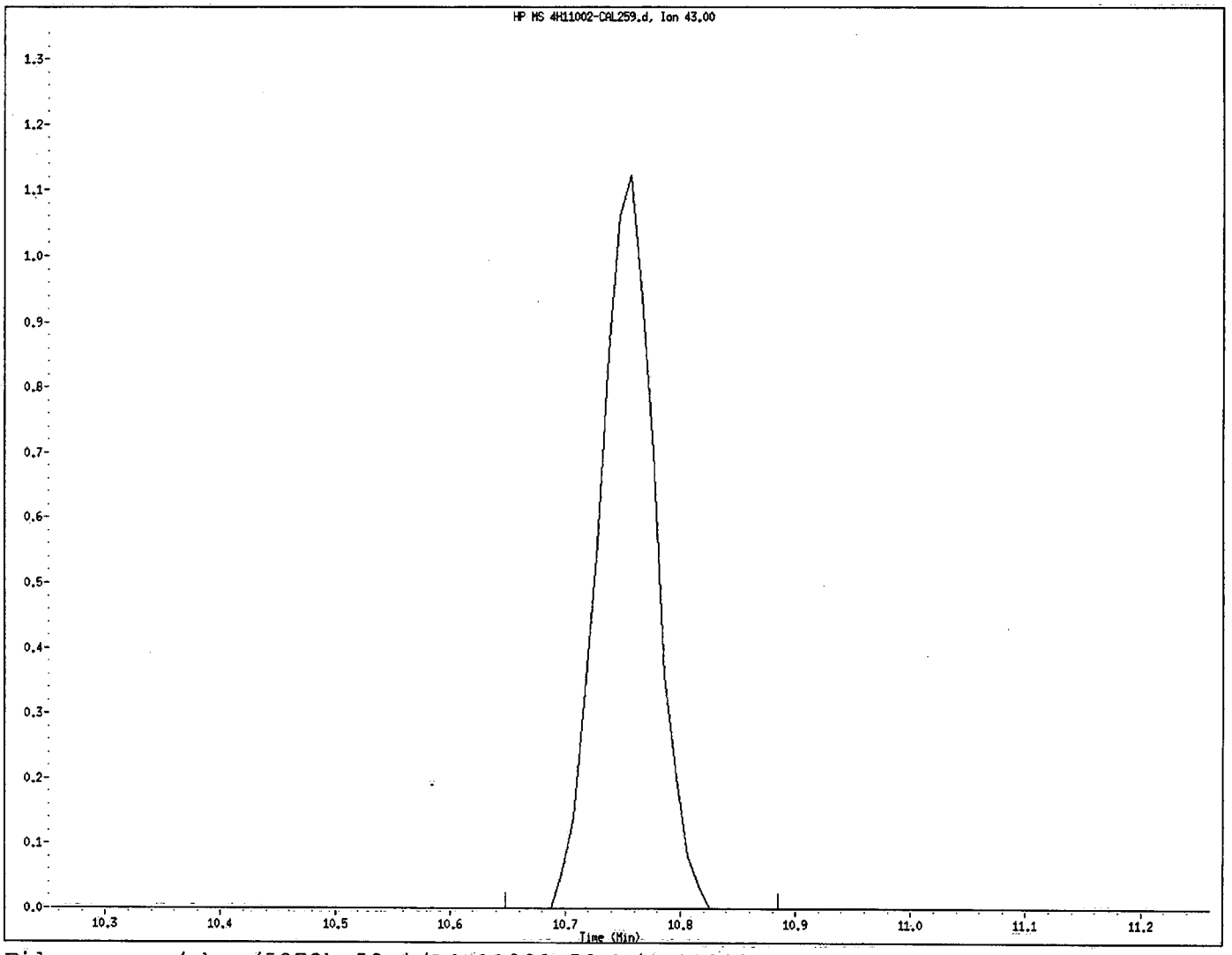
Vinyl acetate CAS Number 108-05-4 Area = 38105 Manually integrated



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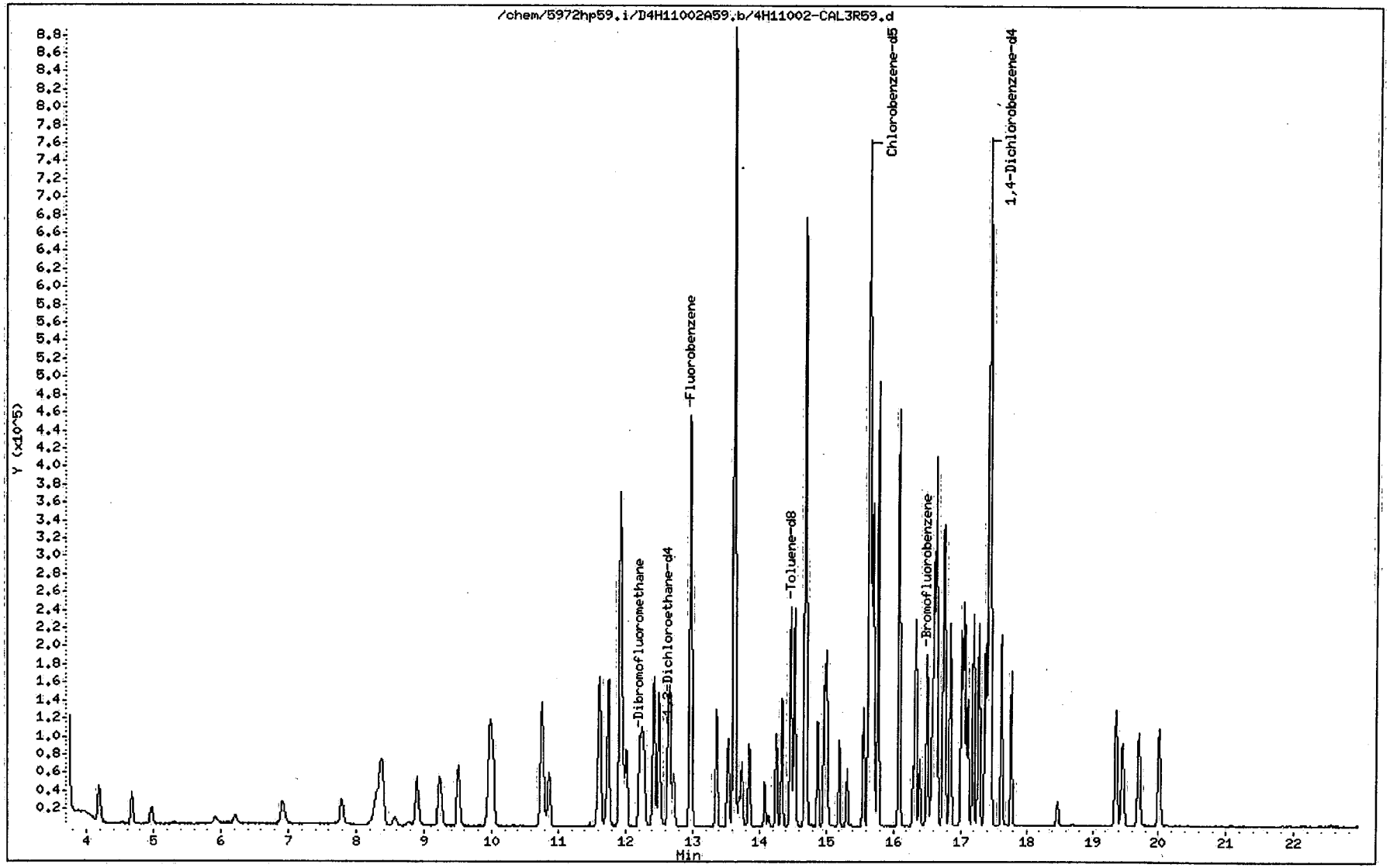
Client ID: VSTD010FT
Instrument ID: 5972hp59.i
Injection Date and Time: 11-AUG-2014 14:26
Retention Time: 10.76
Operator ID: JAO

8/12/2014

Data File: /chem/5972hp59.i/D4H11002A59.b/4H11002-CAL3R59.d
Date : 11-AUG-2014 18:02
Client ID: VSTD020FT
Sample Info: 4H11002-CAL3:JAO
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5972hp59.i
Operator: JAO
Column diameter: 0.32



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Data File: /chem/5972hp59.i/D4H11002A59.b/4H11002-CAL3R59.d
Report Date: 12-Aug-2014 11:29

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp59.i/D4H11002A59.b/4H11002-CAL3R59.d
Lab Smp Id: 4H11002-CAL3 Client Smp ID: VSTD020FT
Inj Date : 11-AUG-2014 18:02
Operator : JAO Inst ID: 5972hp59.i
Smp Info : 4H11002-CAL3:JAO
Misc Info : VSTD020FT
Comment :
Method : /chem/5972hp59.i/D4H11002A59.b/8260B_5ppbv5.m
Meth Date : 12-Aug-2014 11:29 ron Quant Type: ISTD
Cal Date : 11-AUG-2014 18:02 Cal File: 4H11002-CAL3R59.d
Als bottle: 11 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DC.sub
Target Version: 3.50
Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	5.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
* 1 Fluorobenzene	96	12.972	12.972	(1.000)	521466	250.000	
* 2 Chlorobenzene-d5	117	15.634	15.634	(1.000)	458166	250.000	
* 3 1,4-Dichlorobenzene-d4	152	17.419	17.419	(1.000)	229516	250.000	
$ 4 Dibromofluoromethane	113	12.212	12.212	(0.941)	58932	100.000	99.3890
$ 5 1,2-Dichloroethane-d4	65	12.636	12.636	(0.974)	51010	100.000	101.463
$ 6 Toluene-d8	98	14.471	14.471	(0.926)	176144	100.000	94.1469
$ 7 Bromofluorobenzene	95	16.502	16.502	(0.947)	73417	100.000	100.183
8 Dichlorodifluoromethane	85	4.185	4.185	(0.323)	65280	100.000	94.6469
9 Chloromethane	50	4.678	4.678	(0.361)	52356	100.000	87.6444
10 Vinyl Chloride	62	4.964	4.964	(0.383)	32989	100.000	91.5542
11 Bromomethane	94	5.931	5.931	(0.457)	13128	100.000	79.7256
12 Chloroethane	64	6.207	6.207	(0.478)	15714	100.000	104.118
13 Trichlorofluoromethane	101	8.347	8.347	(0.643)	55385	100.000	97.4016
14 Acrolein	56	8.199	8.199	(0.632)	7274	1000.00	296.700
15 1,1,1-trichloro-2,2,2-trifluo	117	8.288	8.288	(0.639)	17958	100.000	94.1341

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Data File: /chem/5972hp59.i/D4H11002A59.b/4H11002-CAL3R59.d
Report Date: 12-Aug-2014 11:29

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
16 1,1,2-trichloro-1,2,2-trifluo	101	8.347	8.347	(0.643)	55385	100.000	97.4016
17 1,1-Dichloroethene	96	8.386	8.386	(0.647)	39696	100.000	93.2998
18 Acetone	43	8.564	8.564	(0.660)	24662	250.000	233.004
19 Iodomethane	142	8.781	8.781	(0.677)	10618	100.000	69.0300
20 Carbon disulfide	76	8.889	8.889	(0.685)	156099	100.000	96.1067
21 3-Chloropropene	76	9.224	9.224	(0.711)	19776	100.000	104.809
22 Acetonitrile	41	9.234	9.234	(0.712)	54289	100.000	100.811
23 Methyl acetate	43	9.254	9.254	(0.713)	44120	100.000	94.0450
24 Methylene Chloride	84	9.510	9.510	(0.733)	50585	100.000	96.3215
25 Acrylonitrile	53	10.023	10.023	(0.773)	96460	1000.00	754.969
26 Methyl-tert-butyl ether	73	9.954	9.954	(0.767)	101039	100.000	94.1280
28 trans-1,2-Dichloroethene	96	9.984	9.984	(0.770)	46243	100.000	96.4211
29 trans-1,2-DCE (part of total)	96	9.984	9.984	(0.770)	46243	100.000	96.4211
31 Isopropyl ether	45	10.763	10.763	(0.830)	137921	100.000	94.1566
32 1,1-Dichloroethane	63	10.743	10.743	(0.828)	81029	100.000	95.5233
33 Vinyl acetate	43	10.753	10.753	(0.829)	60440	100.000	90.7053(M)
34 Chloroprene	53	10.861	10.861	(0.837)	53643	100.000	93.8055
35 2-butanone	43	11.611	11.611	(0.895)	45370	250.000	240.279
36 2,2-Dichloropropane	77	11.601	11.601	(0.894)	59542	100.000	94.5831
37 cis-1,2-Dichloroethene	96	11.621	11.621	(0.896)	51444	100.000	96.0215
38 cis-1,2-DCE (part of total)	96	11.621	11.621	(0.896)	51444	100.000	96.0215
39 Propionitrile	54	11.749	11.749	(0.906)	225223	5000.00	4512.14
40 Methacrylonitrile	41	11.916	11.916	(0.919)	242889	1000.00	933.335
41 Bromochloromethane	128	11.936	11.936	(0.920)	21867	100.000	99.3520
42 Chloroform	83	12.015	12.015	(0.926)	79094	100.000	92.9437
43 1,1,1-Trichloroethane	97	12.242	12.242	(0.944)	64982	100.000	97.6365
44 Cyclohexane	56	12.271	12.271	(0.946)	45722	100.000	92.3243
46 1,1-dichloropropene	75	12.429	12.429	(0.958)	58302	100.000	95.9686
47 Isobutyl alcohol	43	12.498	12.498	(0.963)	105136	5000.00	5006.58
48 Carbon Tetrachloride	117	12.419	12.419	(0.957)	60166	100.000	96.6048
49 Benzene	78	12.666	12.666	(0.976)	174255	100.000	95.3724
50 1,2-Dichloroethane	62	12.725	12.725	(0.981)	53935	100.000	95.1876
51 Trichloroethene	130	13.356	13.356	(1.030)	49440	100.000	96.5921
52 Methylcyclohexane	83	13.534	13.534	(1.043)	44128	100.000	91.9882
53 Methylmethacrylate	100	13.632	13.632	(1.051)	150838	1000.00	1057.84
54 1,2-Dichloropropane	63	13.613	13.613	(1.049)	47533	100.000	99.8066
55 1,4-dioxane	88	13.692	13.692	(1.055)	26428	5000.00	5057.35
56 Dibromomethane	174	13.741	13.741	(1.059)	28278	100.000	94.8338
57 Bromodichloromethane	83	13.849	13.849	(1.068)	64403	100.000	94.7111
58 cis-1,3-Dichloropropene	75	14.254	14.254	(1.099)	65911	100.000	89.1765
59 4-Methyl-2-pentanone	43	14.332	14.332	(0.917)	115009	250.000	257.351
60 Toluene	92	14.530	14.530	(0.929)	113181	100.000	96.8716
61 Ethylmethacrylate	99	14.687	14.687	(0.939)	69133	1000.00	717.858
62 trans-1,3-Dichloropropene	75	14.707	14.707	(0.941)	60615	100.000	92.4032
63 1,1,2-Trichloroethane	97	14.865	14.865	(0.951)	41211	100.000	96.4274
64 2-hexanone	43	15.003	15.003	(0.960)	78018	250.000	238.486
65 2-chloroethyl vinyl ether	63	14.076	14.076	(1.085)	18370	100.000	89.4753

8/12/2014

Data File: /chem/5972hp59.i/D4H11002A59.b/4H11002-CAL3R59.d
Report Date: 12-Aug-2014 11:29

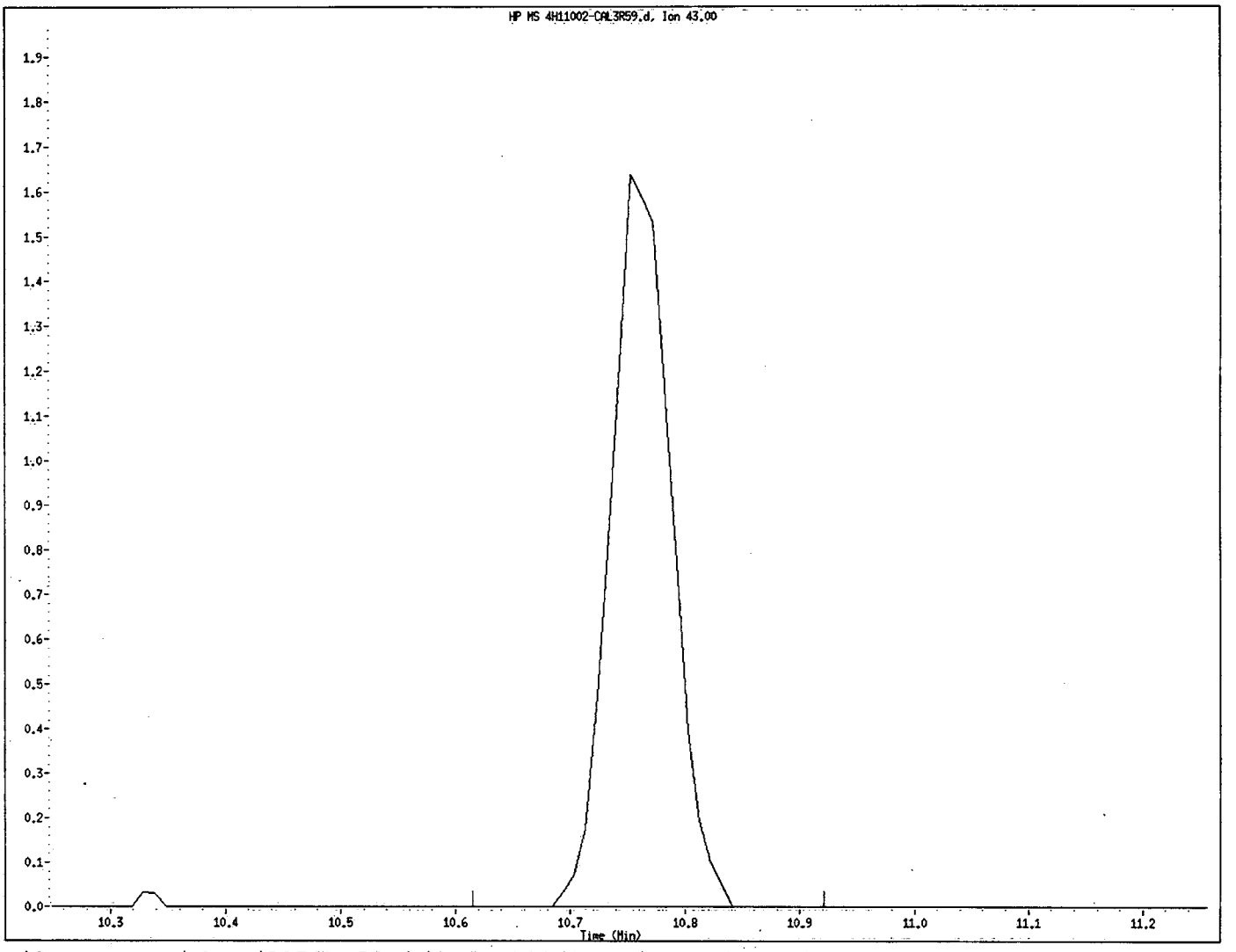
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
66 1,3-Dichloropropane	76	15.013	15.013	(0.960)	69995	100.000	97.8911
67 Tetrachloroethene	164	14.973	14.973	(0.958)	37184	100.000	91.2888
68 Dibromochloromethane	129	15.190	15.190	(0.972)	54089	100.000	97.5083
69 1,2-Dibromoethane	107	15.309	15.309	(0.979)	46762	100.000	97.4469
70 1-Chlorohexane	55	15.555	15.555	(0.995)	30963	100.000	92.1930
71 Chlorobenzene	112	15.664	15.664	(1.002)	139092	100.000	97.0425
72 Ethylbenzene	106	15.693	15.693	(1.004)	67204	100.000	98.9711
73 1,1,1,2-Tetrachloroethane	131	15.703	15.703	(1.004)	48145	100.000	95.0644
74 m,p-Xylene	106	15.772	15.772	(1.009)	160807	200.000	186.689
75 m,p-Xylene (part of total)	106	15.772	15.772	(1.009)	160807	200.000	186.689
76 o-Xylene	106	16.088	16.088	(1.029)	79147	100.000	95.0056
77 o-Xylene (part of total)	106	16.088	16.088	(1.029)	79147	100.000	95.0056
78 Styrene	104	16.088	16.088	(1.029)	132373	100.000	95.3591
79 Bromoform	173	16.295	16.295	(0.935)	33200	100.000	93.2789
80 Isopropyl Benzene	105	16.334	16.334	(1.045)	184830	100.000	92.9421
81 1,1,2,2-Tetrachloroethane	83	16.571	16.571	(0.951)	62963	100.000	95.9885
82 trans-1,4-dichloro-2-butene	53	16.601	16.601	(1.062)	61861	400.000	400.303
83 1,2,3-Trichloropropane	110	16.630	16.630	(1.064)	14860	100.000	97.5449
84 Bromobenzene	156	16.660	16.660	(1.066)	57554	100.000	95.8036
85 n-Propyl Benzene	91	16.640	16.640	(0.955)	258430	100.000	92.2230
86 1,3,5-Trimethyl Benzene	105	16.748	16.748	(0.961)	158327	100.000	94.4327
87 2-Chlorotoluene	91	16.768	16.768	(0.963)	163025	100.000	94.8975
88 4-Chlorotoluene	91	16.847	16.847	(0.967)	151223	100.000	93.9072
89 tert-Butyl Benzene	119	17.015	17.015	(0.977)	148503	100.000	91.0633
90 1,2,4-Trimethyl Benzene	105	17.054	17.054	(0.979)	164108	100.000	94.6696
91 Pentachloroethane	167	17.103	17.103	(0.982)	30449	100.000	89.6000
92 sec-Butyl Benzene	105	17.192	17.192	(0.987)	217093	100.000	96.9001
93 p-Isopropyl Toluene	119	17.271	17.271	(0.991)	161600	100.000	89.3006
94 1,3-Dichlorobenzene	146	17.370	17.370	(0.997)	105256	100.000	93.9270
95 1,4-Dichlorobenzene	146	17.439	17.439	(1.001)	107172	100.000	93.2259
96 n-Butyl Benzene	91	17.616	17.616	(1.011)	157669	100.000	89.2064
97 1,2-Dichlorobenzene	146	17.774	17.774	(1.020)	94940	100.000	92.0336
98 1,2-Dibromo-3-Chloropropane	157	18.474	18.474	(1.061)	11304	100.000	99.9502
99 1,2,4-Trichlorobenzene	180	19.362	19.362	(1.112)	62397	100.000	89.7104
100 Hexachlorobutadiene	225	19.450	19.450	(1.117)	29567	100.000	86.6689
101 Naphthalene	128	19.697	19.697	(1.131)	133827	100.000	92.0132
102 1,2,3-Trichlorobenzene	180	20.003	20.003	(1.148)	57094	100.000	89.8872
M 103 1,2-Dichloroethene (total)	96				97687	200.000	192.420
M 104 Xylene (total)	106				239954	300.000	281.695

QC Flag Legend

M - Compound response manually integrated.

Robin Ha 8/12/2014

Vinyl acetate CAS Number 108-05-4 Area = 60440 Manually integrated

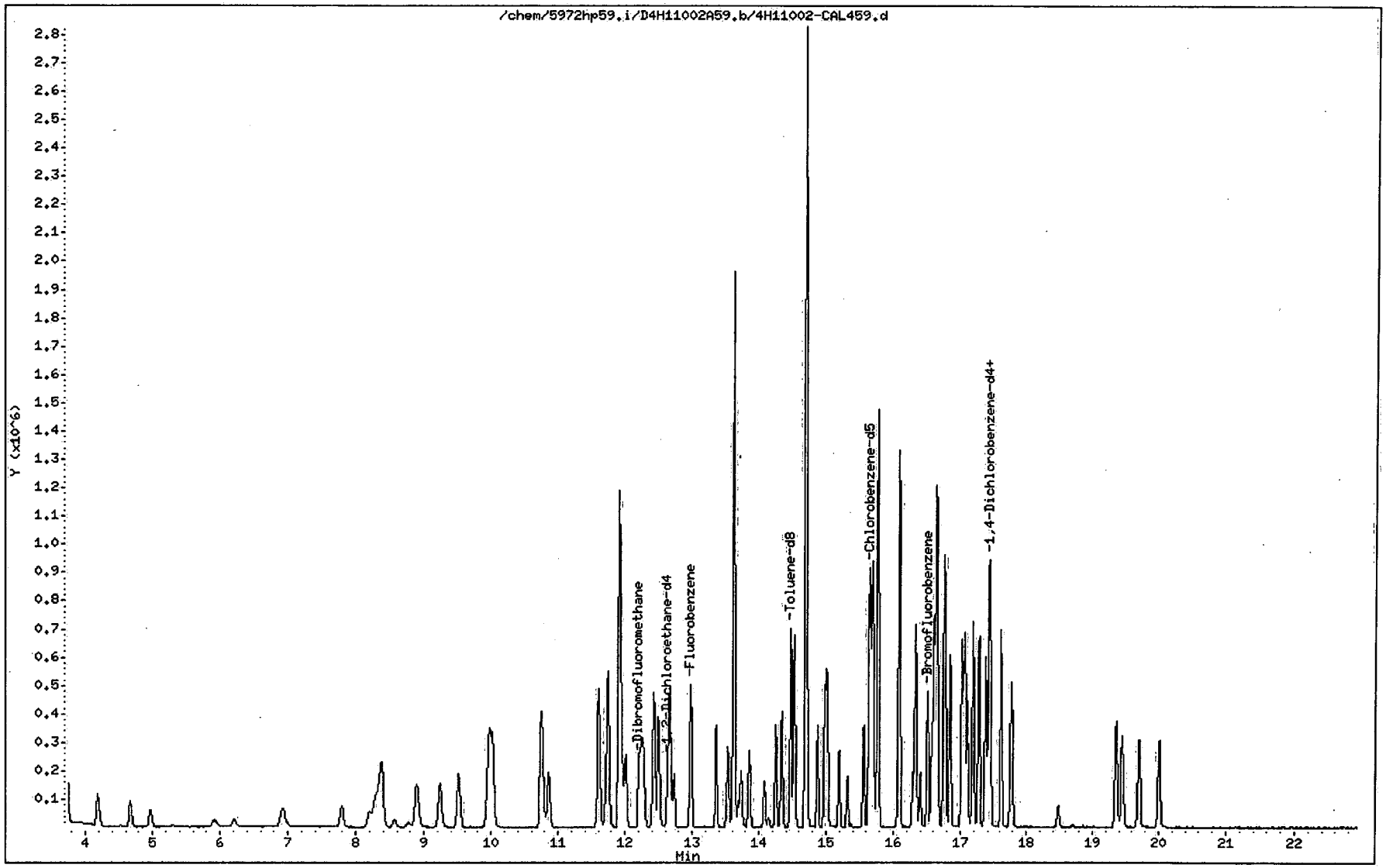


File name: /chem/5972hp59.i/D4H11002A59.b/4H11002-CAL3R59.d
Client ID: VSTD020FT
Instrument ID: 5972hp59.i
Injection Date and Time: 11-AUG-2014 18:02
Retention Time: 10.75
Operator ID: JAO

8/12/2014

Data File: /chem/5972hp59.i/D4H11002A59.b/4H11002-CAL459.d
Date : 11-AUG-2014 16:29
Client ID: VSTD050FT
Sample Info: 4H11002-CAL4:JAO
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5972hp59.i
Operator: JAO
Column diameter: 0.32



8/12/2014

Data File: /chem/5972hp59.i/D4H11002A59.b/4H11002-CAL459.d
Report Date: 12-Aug-2014 11:29

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp59.i/D4H11002A59.b/4H11002-CAL459.d
Lab Smp Id: 4H11002-CAL4 Client Smp ID: VSTD050FT
Inj Date : 11-AUG-2014 16:29
Operator : JAO Inst ID: 5972hp59.i
Smp Info : 4H11002-CAL4:JAO
Misc Info : VSTD050FT
Comment :
Method : /chem/5972hp59.i/D4H11002A59.b/8260B_5ppbv5.m
Meth Date : 12-Aug-2014 11:29 ron Quant Type: ISTD
Cal Date : 11-AUG-2014 16:29 Cal File: 4H11002-CAL459.d
Als bottle: 8 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DC.sub
Target Version: 3.50
Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	5.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
* 1 Fluorobenzene	96	12.979	12.979	(1.000)	572729	250.000	
* 2 Chlorobenzene-d5	117	15.642	15.642	(1.000)	482139	250.000	
* 3 1,4-Dichlorobenzene-d4	152	17.417	17.417	(1.000)	240480	250.000	
$ 4 Dibromofluoromethane	113	12.210	12.210	(0.941)	156580	250.000	240.143
$ 5 1,2-Dichloroethane-d4	65	12.634	12.634	(0.973)	129916	250.000	235.976
$ 6 Toluene-d8	98	14.468	14.468	(0.925)	500195	250.000	251.116
$ 7 Bromofluorobenzene	95	16.500	16.500	(0.947)	190512	250.000	248.206
8 Dichlorodifluoromethane	85	4.183	4.183	(0.322)	191253	250.000	249.796
9 Chloromethane	50	4.676	4.676	(0.360)	152972	250.000	227.533
10 Vinyl Chloride	62	4.972	4.972	(0.383)	105427	250.000	261.977
11 Bromomethane	94	5.919	5.919	(0.456)	40281	250.000	214.049
12 Chloroethane	64	6.215	6.215	(0.479)	41399	250.000	251.823
13 Trichlorofluoromethane	101	8.345	8.345	(0.643)	159990	250.000	254.855
14 Acrolein	56	8.197	8.197	(0.632)	93962	2500.00	3059.27
15 1,1,1-trichloro-2,2,2-trifluo	117	8.285	8.285	(0.638)	55696	250.000	262.739

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Data File: /chem/5972hp59.i/D4H11002A59.b/4H11002-CAL459.d
Report Date: 12-Aug-2014 11:29

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
16 1,1,2-trichloro-1,2,2-trifluo	101	8.345	8.345	(0.643)	159990	250.000	254.855
17 1,1-Dichloroethene	96	8.384	8.384	(0.646)	122104	250.000	257.846
18 Acetone	43	8.562	8.562	(0.660)	61356	625.000	518.978
19 Iodomethane	142	8.778	8.778	(0.676)	50779	250.000	209.383
20 Carbon disulfide	76	8.887	8.887	(0.685)	459113	250.000	255.377
21 3-Chloropropene	76	9.232	9.232	(0.711)	55475	250.000	270.291
22 Acetonitrile	41	9.232	9.232	(0.711)	155172	250.000	262.781
23 Methyl acetate	43	9.252	9.252	(0.713)	121366	250.000	232.773
24 Methylene Chloride	84	9.508	9.508	(0.733)	144078	250.000	247.966
25 Acrylonitrile	53	10.021	10.021	(0.772)	376593	2500.00	2804.40
26 Methyl-tert-butyl ether	73	9.952	9.952	(0.767)	303672	250.000	254.590
28 trans-1,2-Dichloroethene	96	9.982	9.982	(0.769)	137040	250.000	258.317
29 trans-1,2-DCE (part of total)	96	9.982	9.982	(0.769)	137040	250.000	258.317
31 Isopropyl ether	45	10.761	10.761	(0.829)	405630	250.000	249.219
32 1,1-Dichloroethane	63	10.751	10.751	(0.828)	238854	250.000	254.101
33 Vinyl acetate	43	10.761	10.761	(0.829)	188869	250.000	253.365
34 Chloroprene	53	10.859	10.859	(0.837)	166444	250.000	261.766
35 2-butanone	43	11.609	11.609	(0.894)	128542	625.000	615.043
36 2,2-Dichloropropane	77	11.599	11.599	(0.894)	177510	250.000	253.986
37 cis-1,2-Dichloroethene	96	11.619	11.619	(0.895)	153803	250.000	259.318
38 cis-1,2-DCE (part of total)	96	11.619	11.619	(0.895)	153803	250.000	259.318
39 Propionitrile	54	11.747	11.747	(0.905)	753795	12500.0	13486.7
40 Methacrylonitrile	41	11.924	11.924	(0.919)	755481	2500.00	2608.42
41 Bromochloromethane	128	11.934	11.934	(0.919)	61551	250.000	254.295
42 Chloroform	83	12.013	12.013	(0.926)	240381	250.000	253.611
43 1,1,1-Trichloroethane	97	12.250	12.250	(0.944)	187408	250.000	255.174
44 Cyclohexane	56	12.279	12.279	(0.946)	144896	250.000	262.366
46 1,1-dichloropropene	75	12.437	12.437	(0.958)	174417	250.000	259.313
47 Isobutyl alcohol	43	12.496	12.496	(0.963)	298176	12500.0	12931.6
48 Carbon Tetrachloride	117	12.417	12.417	(0.957)	176510	250.000	256.304
49 Benzene	78	12.664	12.664	(0.976)	511940	250.000	252.774
50 1,2-Dichloroethane	62	12.723	12.723	(0.980)	159558	250.000	253.948
51 Trichloroethene	130	13.364	13.364	(1.030)	143904	250.000	254.251
52 Methylcyclohexane	83	13.532	13.532	(1.043)	137531	250.000	256.916
53 Methylmethacrylate	100	13.630	13.630	(1.050)	339207	2500.00	2197.74
54 1,2-Dichloropropane	63	13.610	13.610	(1.049)	131753	250.000	251.787
55 1,4-dioxane	88	13.699	13.699	(1.055)	73468	12500.0	12830.1
56 Dibromomethane	174	13.739	13.739	(1.059)	83800	250.000	253.263
57 Bromodichloromethane	83	13.857	13.857	(1.068)	190072	250.000	251.837
58 cis-1,3-Dichloropropene	75	14.251	14.251	(1.098)	214167	250.000	258.239
59 4-Methyl-2-pentanone	43	14.340	14.340	(0.917)	310565	625.000	664.292
60 Toluene	92	14.528	14.528	(0.929)	323270	250.000	261.294
61 Ethylmethacrylate	99	14.695	14.695	(0.939)	315295	2500.00	2634.02
62 trans-1,3-Dichloropropene	75	14.715	14.715	(0.941)	187225	250.000	267.161
63 1,1,2-Trichloroethane	97	14.873	14.873	(0.951)	116425	250.000	257.035
64 2-hexanone	43	15.001	15.001	(0.959)	228944	625.000	658.971
65 2-chloroethyl vinyl ether	63	14.084	14.084	(1.085)	60646	250.000	263.406

8/12/2014

Data File: /chem/5972hp59.i/D4H11002A59.b/4H11002-CAL459.d
Report Date: 12-Aug-2014 11:29

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
66 1,3-Dichloropropane	76	15.021	15.021	(0.960)	203069	250.000	268.746
67 Tetrachloroethene	164	14.981	14.981	(0.958)	116499	250.000	267.136
68 Dibromochloromethane	129	15.198	15.198	(0.972)	156878	250.000	267.415
69 1,2-Dibromoethane	107	15.316	15.316	(0.979)	131753	250.000	259.582
70 1-Chlorohexane	55	15.563	15.563	(0.995)	88300	250.000	246.001
71 Chlorobenzene	112	15.662	15.662	(1.001)	389888	250.000	256.974
72 Ethylbenzene	106	15.691	15.691	(1.003)	180570	250.000	252.183
73 1,1,1,2-Tetrachloroethane	131	15.711	15.711	(1.004)	134427	250.000	249.769
74 m,p-Xylene	106	15.770	15.770	(1.008)	484189	500.000	527.153
75 m,p-Xylene (part of total)	106	15.770	15.770	(1.008)	484189	500.000	527.153
76 o-Xylene	106	16.086	16.086	(1.028)	229484	250.000	259.180
77 o-Xylene (part of total)	106	16.086	16.086	(1.028)	229484	250.000	259.180
78 Styrene	104	16.096	16.096	(1.029)	388493	250.000	263.502
79 Bromoform	173	16.293	16.293	(0.935)	98656	250.000	261.038
80 Isopropyl Benzene	105	16.332	16.332	(1.044)	555491	250.000	261.746
81 1,1,2,2-Tetrachloroethane	83	16.569	16.569	(0.951)	172564	250.000	249.085
82 trans-1,4-dichloro-2-butene	53	16.598	16.598	(1.061)	161180	1000.00	991.286
83 1,2,3-Trichloropropane	110	16.638	16.638	(1.064)	40900	250.000	253.882
84 Bromobenzene	156	16.658	16.658	(1.065)	170971	250.000	268.194
85 n-Propyl Benzene	91	16.638	16.638	(0.955)	774422	250.000	259.720
86 1,3,5-Trimethyl Benzene	105	16.746	16.746	(0.961)	468184	250.000	263.578
87 2-Chlorotoluene	91	16.766	16.766	(0.963)	456971	250.000	251.312
88 4-Chlorotoluene	91	16.845	16.845	(0.967)	423963	250.000	248.246
89 tert-Butyl Benzene	119	17.022	17.022	(0.977)	460672	250.000	264.875
90 1,2,4-Trimethyl Benzene	105	17.062	17.062	(0.980)	481758	250.000	262.445
91 Pentachloroethane	167	17.101	17.101	(0.982)	97480	250.000	268.191
92 sec-Butyl Benzene	105	17.190	17.190	(0.987)	636385	250.000	269.431
93 p-Isopropyl Toluene	119	17.279	17.279	(0.992)	520390	250.000	268.708
94 1,3-Dichlorobenzene	146	17.368	17.368	(0.997)	306607	250.000	257.998
95 1,4-Dichlorobenzene	146	17.437	17.437	(1.001)	310488	250.000	254.325
96 n-Butyl Benzene	91	17.614	17.614	(1.011)	493049	250.000	260.614
97 1,2-Dichlorobenzene	146	17.782	17.782	(1.021)	284893	250.000	259.447
98 1,2-Dibromo-3-Chloropropane	157	18.482	18.482	(1.061)	30367	250.000	256.238
99 1,2,4-Trichlorobenzene	180	19.360	19.360	(1.112)	190910	250.000	256.682
100 Hexachlorobutadiene	225	19.458	19.458	(1.117)	98660	250.000	262.488
101 Naphthalene	128	19.705	19.705	(1.131)	412804	250.000	266.625
102 1,2,3-Trichlorobenzene	180	20.010	20.010	(1.149)	173904	250.000	256.127
M 103 1,2-Dichloroethene (total)	96				290843	500.000	517.691
M 104 Xylene (total)	106				713673	750.000	786.333

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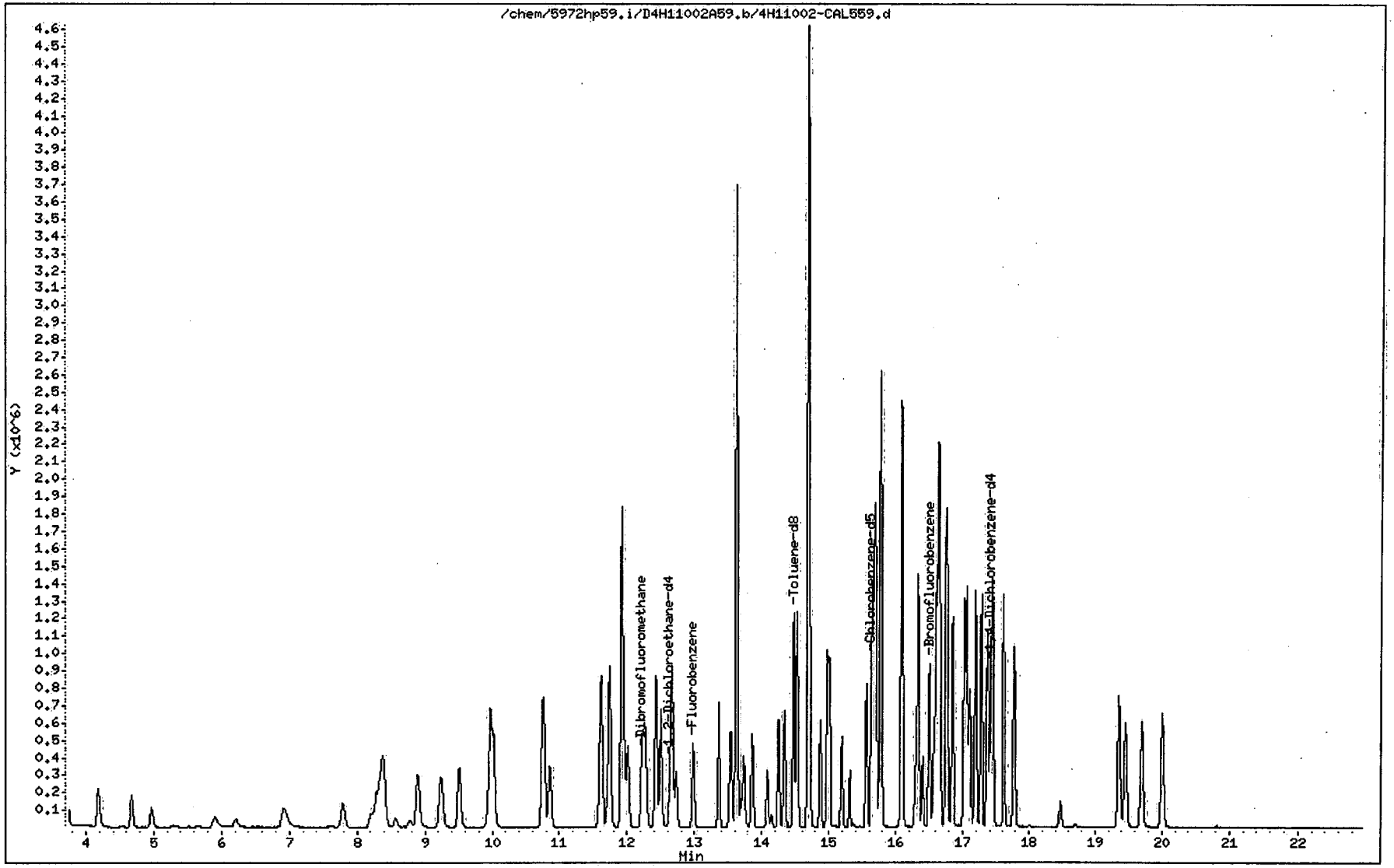
Data File: /chem/5972hp59.i/D4H11002A59.b/4H11002-CAL559.d
Date : 11-AUG-2014 15:58
Client ID: VSTD100FT
Sample Info: 4H11002-CAL5:JAO
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5972hp59.i
Operator: JAO
Column diameter: 0.32



8/12/2014

Data File: /chem/5972hp59.i/D4H11002A59.b/4H11002-CAL559.d
Report Date: 12-Aug-2014 11:29

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp59.i/D4H11002A59.b/4H11002-CAL559.d
Lab Smp Id: 4H11002-CAL5 Client Smp ID: VSTD100FT
Inj Date : 11-AUG-2014 15:58
Operator : JAO Inst ID: 5972hp59.i
Smp Info : 4H11002-CAL5:JAO
Misc Info : VSTD100FT
Comment :
Method : /chem/5972hp59.i/D4H11002A59.b/8260B_5ppbv5.m
Meth Date : 12-Aug-2014 11:29 ron Quant Type: ISTD
Cal Date : 11-AUG-2014 15:58 Cal File: 4H11002-CAL559.d
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DC.sub
Target Version: 3.50
Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	5.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	12.976	12.976	(1.000)	531068	250.000	
* 2 Chlorobenzene-d5	117	15.639	15.639	(1.000)	463545	250.000	
* 3 1,4-Dichlorobenzene-d4	152	17.414	17.414	(1.000)	233838	250.000	
$ 4 Dibromofluoromethane	113	12.207	12.207	(0.941)	288934	500.000	473.229
$ 5 1,2-Dichloroethane-d4	65	12.631	12.631	(0.973)	239663	500.000	462.973
$ 6 Toluene-d8	98	14.475	14.475	(0.926)	919461	500.000	480.654
$ 7 Bromofluorobenzene	95	16.506	16.506	(0.948)	365455	500.000	488.776
8 Dichlorodifluoromethane	85	4.180	4.180	(0.322)	355939	500.000	501.261
9 Chloromethane	50	4.673	4.673	(0.360)	302143	500.000	474.019
10 Vinyl Chloride	62	4.969	4.969	(0.383)	194612	500.000	527.853
11 Bromomethane	94	5.906	5.906	(0.455)	97761	500.000	540.803(M)
12 Chloroethane	64	6.211	6.211	(0.479)	80312	500.000	527.809
13 Trichlorofluoromethane	101	8.351	8.351	(0.644)	299380	500.000	516.815
14 Acrolein	56	8.203	8.203	(0.632)	131637	5000.00	4895.95
15 1,1,1-trichloro-2,2,2-trifluo	117	8.282	8.282	(0.638)	105929	500.000	545.861

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Data File: /chem/5972hp59.i/D4H11002A59.b/4H11002-CAL559.d
Report Date: 12-Aug-2014 11:29

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
16 1,1,2-trichloro-1,2,2-trifluo	101	8.351	8.351	(0.644)	299380	500.000	516.815
17 1,1-Dichloroethene	96	8.391	8.391	(0.647)	231013	500.000	530.256
18 Acetone	43	8.568	8.568	(0.660)	134229	1250.00	1158.91
19 Iodomethane	142	8.775	8.775	(0.676)	94233	500.000	501.881
20 Carbon disulfide	76	8.894	8.894	(0.685)	889439	500.000	536.437
21 3-Chloropropene	76	9.229	9.229	(0.711)	106694	500.000	572.237
22 Acetonitrile	41	9.229	9.229	(0.711)	298463	500.000	552.149
23 Methyl acetate	43	9.258	9.258	(0.713)	248425	500.000	505.140
24 Methylene Chloride	84	9.515	9.515	(0.733)	272939	500.000	505.565
25 Acrylonitrile	53	10.018	10.018	(0.772)	604883	5000.00	5046.96
26 Methyl-tert-butyl ether	73	9.959	9.959	(0.767)	563571	500.000	511.896
28 trans-1,2-Dichloroethene	96	9.978	9.978	(0.769)	254536	500.000	521.772
29 trans-1,2-DCE (part of total)	96	9.978	9.978	(0.769)	254536	500.000	521.772
31 Isopropyl ether	45	10.767	10.767	(0.830)	779136	500.000	515.851
32 1,1-Dichloroethane	63	10.748	10.748	(0.828)	442984	500.000	510.324
33 Vinyl acetate	43	10.767	10.767	(0.830)	343867	500.000	499.160
34 Chloroprene	53	10.856	10.856	(0.837)	300785	500.000	516.226
35 2-butanone	43	11.605	11.605	(0.894)	225015	1250.00	1156.50
36 2,2-Dichloropropane	77	11.596	11.596	(0.894)	322951	500.000	500.331
37 cis-1,2-Dichloroethene	96	11.615	11.615	(0.895)	280733	500.000	515.260
38 cis-1,2-DCE (part of total)	96	11.615	11.615	(0.895)	280733	500.000	515.260
39 Propionitrile	54	11.743	11.743	(0.905)	1254133	25000.0	24686.1
40 Methacrylonitrile	41	11.921	11.921	(0.919)	1235233	5000.00	4649.82
41 Bromochloromethane	128	11.941	11.941	(0.920)	114665	500.000	513.099
42 Chloroform	83	12.010	12.010	(0.926)	434620	500.000	496.303
43 1,1,1-Trichloroethane	97	12.246	12.246	(0.944)	351224	500.000	518.423
44 Cyclohexane	56	12.276	12.276	(0.946)	281014	500.000	555.626
46 1,1-dichloropropene	75	12.434	12.434	(0.958)	327641	500.000	530.268
47 Isobutyl alcohol	43	12.503	12.503	(0.964)	512949	25000.0	24200.2
48 Carbon Tetrachloride	117	12.424	12.424	(0.957)	330561	500.000	520.934
49 Benzene	78	12.661	12.661	(0.976)	976736	500.000	521.550
50 1,2-Dichloroethane	62	12.720	12.720	(0.980)	285972	500.000	492.796
51 Trichloroethene	130	13.361	13.361	(1.030)	265218	500.000	507.507
52 Methylcyclohexane	83	13.538	13.538	(1.043)	279043	500.000	566.076
53 Methylmethacrylate	100	13.627	13.627	(1.050)	672053	5000.00	4513.93
54 1,2-Dichloropropane	63	13.607	13.607	(1.049)	235804	500.000	486.855
55 1,4-dioxane	88	13.696	13.696	(1.055)	132861	25000.0	25188.7
56 Dibromomethane	174	13.735	13.735	(1.059)	159858	500.000	522.733
57 Bromodichloromethane	83	13.854	13.854	(1.068)	363205	500.000	519.937
58 cis-1,3-Dichloropropene	75	14.258	14.258	(1.099)	396615	500.000	520.031
59 4-Methyl-2-pentanone	43	14.337	14.337	(0.917)	528585	1250.00	1194.76
60 Toluene	92	14.524	14.524	(0.929)	619856	500.000	527.071
61 Ethylmethacrylate	99	14.692	14.692	(0.939)	524178	5000.00	4991.05
62 trans-1,3-Dichloropropene	75	14.712	14.712	(0.941)	338687	500.000	511.452
63 1,1,2-Trichloroethane	97	14.870	14.870	(0.951)	213487	500.000	493.701
64 2-hexanone	43	14.998	14.998	(0.959)	408415	1250.00	1239.54
65 2-chloroethyl vinyl ether	63	14.081	14.081	(1.085)	121056	500.000	574.739

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Data File: /chem/5972hp59.i/D4H11002A59.b/4H11002-CAL559.d
Report Date: 12-Aug-2014 11:29

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
66 1,3-Dichloropropane	76	15.017	15.017	(0.960)	354486	500.000	497.275
67 Tetrachloroethene	164	14.978	14.978	(0.958)	223845	500.000	543.181
68 Dibromochloromethane	129	15.195	15.195	(0.972)	284533	500.000	513.414
69 1,2-Dibromoethane	107	15.313	15.313	(0.979)	239516	500.000	495.576
70 1-Chlorohexane	55	15.560	15.560	(0.995)	193086	500.000	557.282
71 Chlorobenzene	112	15.658	15.658	(1.001)	751398	500.000	518.727
72 Ethylbenzene	106	15.688	15.688	(1.003)	370517	500.000	539.397
73 1,1,1,2-Tetrachloroethane	131	15.708	15.708	(1.004)	272551	500.000	526.598
74 m,p-Xylene	106	15.777	15.777	(1.009)	935310	1000.00	1073.73
75 m,p-Xylene (part of total)	106	15.777	15.777	(1.009)	935310	1000.00	1073.73
76 o-Xylene	106	16.082	16.082	(1.028)	459746	500.000	545.070
77 o-Xylene (part of total)	106	16.082	16.082	(1.028)	459746	500.000	545.070
78 Styrene	104	16.092	16.092	(1.029)	764551	500.000	546.754
79 Bromoform	173	16.290	16.290	(0.935)	183246	500.000	504.196
80 Isopropyl Benzene	105	16.329	16.329	(1.044)	1127225	500.000	559.017
81 1,1,2,2-Tetrachloroethane	83	16.566	16.566	(0.951)	326611	500.000	484.389
82 trans-1,4-dichloro-2-butene	53	16.605	16.605	(1.062)	307856	2000.00	1965.04
83 1,2,3-Trichloropropane	110	16.635	16.635	(1.064)	77522	500.000	502.463
84 Bromobenzene	156	16.654	16.654	(1.065)	323532	500.000	537.649
85 n-Propyl Benzene	91	16.635	16.635	(0.955)	1518969	500.000	529.032
86 1,3,5-Trimethyl Benzene	105	16.743	16.743	(0.961)	906329	500.000	531.960
87 2-Chlorotoluene	91	16.773	16.773	(0.963)	894845	500.000	506.765
88 4-Chlorotoluene	91	16.852	16.852	(0.968)	844906	500.000	507.886
89 tert-Butyl Benzene	119	17.019	17.019	(0.977)	896509	500.000	538.116
90 1,2,4-Trimethyl Benzene	105	17.059	17.059	(0.980)	933847	500.000	529.770
91 Pentachloroethane	167	17.108	17.108	(0.982)	179988	500.000	518.691
92 sec-Butyl Benzene	105	17.187	17.187	(0.987)	1197748	500.000	531.838
93 p-Isopropyl Toluene	119	17.276	17.276	(0.992)	986382	500.000	533.780
94 1,3-Dichlorobenzene	146	17.364	17.364	(0.997)	601538	500.000	524.746
95 1,4-Dichlorobenzene	146	17.433	17.433	(1.001)	616079	500.000	521.228
96 n-Butyl Benzene	91	17.611	17.611	(1.011)	1016607	500.000	558.547
97 1,2-Dichlorobenzene	146	17.779	17.779	(1.021)	560632	500.000	530.066
98 1,2-Dibromo-3-Chloropropane	157	18.479	18.479	(1.061)	60017	500.000	524.081
99 1,2,4-Trichlorobenzene	180	19.356	19.356	(1.112)	377219	500.000	525.092
100 Hexachlorobutadiene	225	19.455	19.455	(1.117)	190787	500.000	524.893
101 Naphthalene	128	19.701	19.701	(1.131)	790793	500.000	534.153
102 1,2,3-Trichlorobenzene	180	20.007	20.007	(1.149)	360513	500.000	549.413
M 103 1,2-Dichloroethene (total)	96				535269	1000.00	1036.67
M 104 Xylene (total)	106				1395056	1500.00	1618.80

QC Flag Legend

M - Compound response manually integrated.

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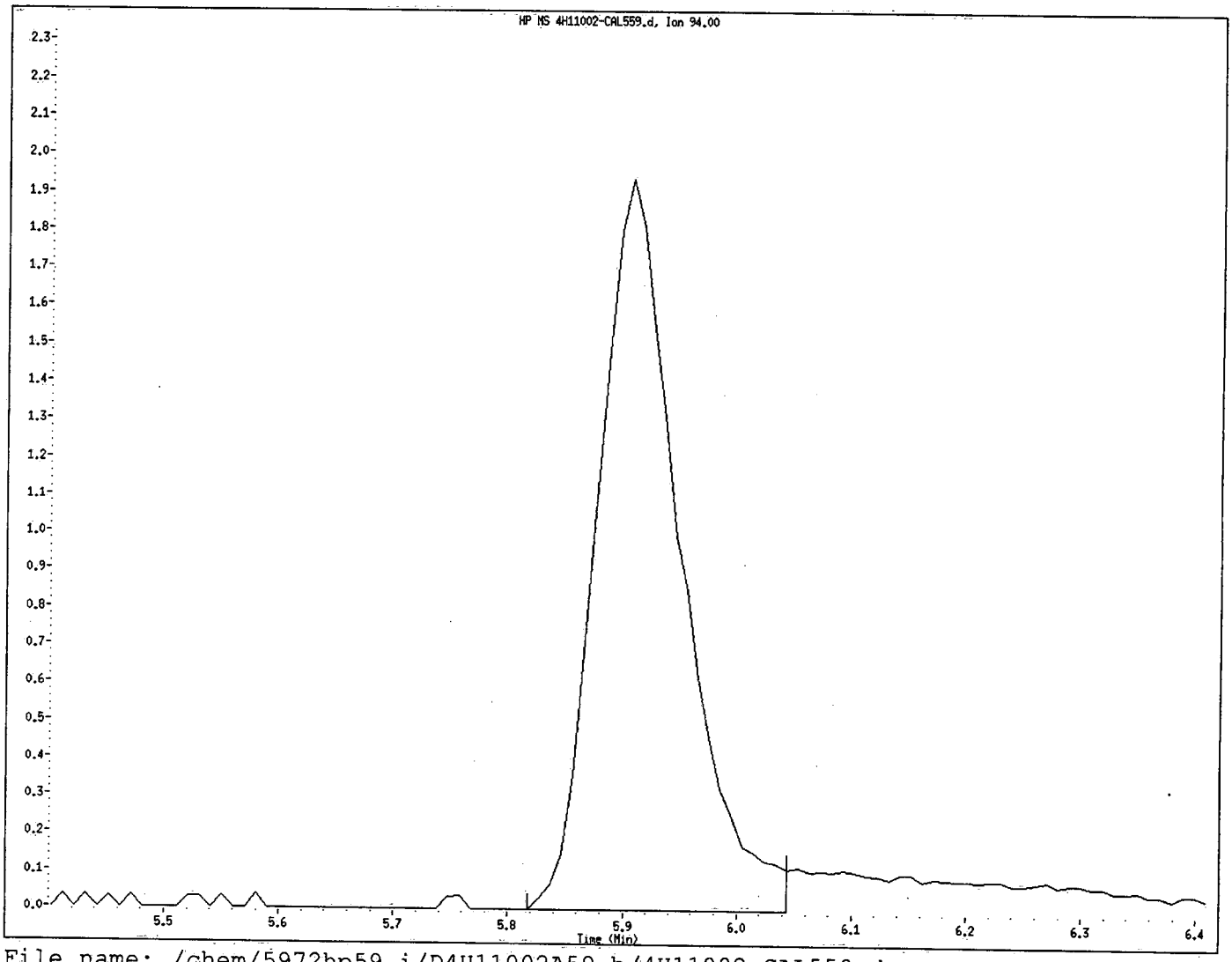
Bromomethane CAS Number 74-83-9 Area = 97761 Manually integrated



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Client ID: VSTD100FT
Instrument ID: 5972hp59.i
Injection Date and Time: 11-AUG-2014 15:58
Retention Time: 5.91
Operator ID: JAO

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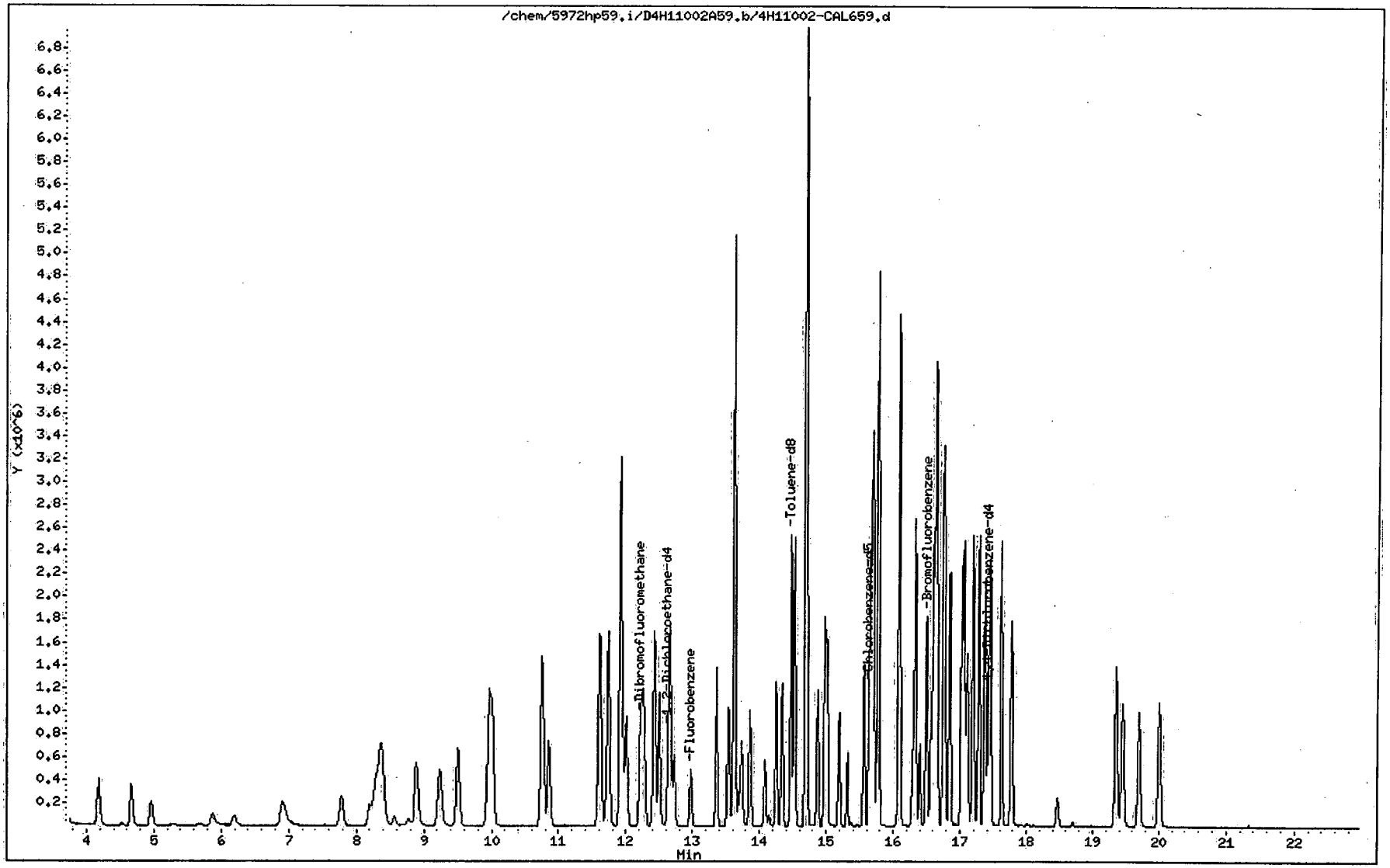
Data File: /chem/5972hp59.i/D4H11002A59.b/4H11002-CAL659.d
Date : 11-AUG-2014 15:28
Client ID: VSTD200FT
Sample Info: 4H11002-CAL6:JAO
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5972hp59.i

Operator: JAO
Column diameter: 0.32



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Data File: /chem/5972hp59.i/D4H11002A59.b/4H11002-CAL659.d
Report Date: 12-Aug-2014 11:29

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp59.i/D4H11002A59.b/4H11002-CAL659.d
Lab Smp Id: 4H11002-CAL6 Client Smp ID: VSTD200FT
Inj Date : 11-AUG-2014 15:28
Operator : JAO Inst ID: 5972hp59.i
Smp Info : 4H11002-CAL6:JAO
Misc Info : VSTD200FT
Comment :
Method : /chem/5972hp59.i/D4H11002A59.b/8260B_5ppbv5.m
Meth Date : 12-Aug-2014 11:29 ron Quant Type: ISTD
Cal Date : 11-AUG-2014 15:28 Cal File: 4H11002-CAL659.d
Als bottle: 6 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DC.sub
Target Version: 3.50
Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	5.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
* 1 Fluorobenzene	96	12.976	12.976	(1.000)	530403	250.000	
* 2 Chlorobenzene-d5	117	15.639	15.639	(1.000)	450565	250.000	
* 3 1,4-Dichlorobenzene-d4	152	17.414	17.414	(1.000)	222848	250.000	
$ 4 Dibromofluoromethane	113	12.207	12.207	(0.941)	595711	1000.00	959.776
$ 5 1,2-Dichloroethane-d4	65	12.631	12.631	(0.973)	467726	1000.00	882.878
$ 6 Toluene-d8	98	14.465	14.465	(0.925)	1853030	1000.00	983.900
$ 7 Bromofluorobenzene	95	16.496	16.496	(0.947)	721545	1000.00	1005.10(A)
8 Dichlorodifluoromethane	85	4.180	4.180	(0.322)	609967	1000.00	860.805
9 Chloromethane	50	4.663	4.663	(0.359)	625815	1000.00	966.308
10 Vinyl Chloride	62	4.959	4.959	(0.382)	357092	1000.00	988.115
11 Bromomethane	94	5.876	5.876	(0.453)	160854	1000.00	915.856
12 Chloroethane	64	6.182	6.182	(0.476)	153423	1000.00	1028.63(A)
13 Trichlorofluoromethane	101	8.341	8.341	(0.643)	592796	1000.00	1036.23(A)
14 Acrolein	56	8.193	8.193	(0.631)	314428	10000.0	11628.5(A)
15 1,1,1-trichloro-2,2,2-trifluo	117	8.272	8.272	(0.637)	205565	1000.00	1094.07(A)

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Data File: /chem/5972hp59.i/D4H11002A59.b/4H11002-CAL659.d
Report Date: 12-Aug-2014 11:29

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
16 1,1,2-trichloro-1,2,2-trifluo	101	8.341	8.341	(0.643)	592796	1000.00	1036.23(A)
17 1,1-Dichloroethene	96	8.381	8.381	(0.646)	441674	1000.00	1035.97(A)
18 Acetone	43	8.568	8.568	(0.660)	202791	2500.00	1691.43
19 Iodomethane	142	8.765	8.765	(0.675)	138549	1000.00	1000.00
20 Carbon disulfide	76	8.893	8.893	(0.685)	1677001	1000.00	1037.91(A)
21 3-Chloropropene	76	9.229	9.229	(0.711)	182778	1000.00	1031.19(A)
22 Acetonitrile	41	9.229	9.229	(0.711)	517837	1000.00	993.734
23 Methyl acetate	43	9.248	9.248	(0.713)	412738	1000.00	843.191
24 Methylene Chloride	84	9.505	9.505	(0.732)	537679	1000.00	1000.91(A)
25 Acrylonitrile	53	10.018	10.018	(0.772)	1186165	10000.0	9995.60
26 Methyl-tert-butyl ether	73	9.949	9.949	(0.767)	1059008	1000.00	970.810
28 trans-1,2-Dichloroethene	96	9.978	9.978	(0.769)	485910	1000.00	1012.00(A)
29 trans-1,2-DCE (part of total)	96	9.978	9.978	(0.769)	485910	1000.00	1012.00(A)
31 Isopropyl ether	45	10.757	10.757	(0.829)	1455041	1000.00	974.864
32 1,1-Dichloroethane	63	10.747	10.747	(0.828)	849180	1000.00	986.283
33 Vinyl acetate	43	10.757	10.757	(0.829)	661353	1000.00	960.690
34 Chloroprene	53	10.856	10.856	(0.837)	618058	1000.00	1073.69(A)
35 2-butanone	43	11.605	11.605	(0.894)	390979	2500.00	1963.07
36 2,2-Dichloropropane	77	11.595	11.595	(0.894)	656104	1000.00	1017.97(A)
37 cis-1,2-Dichloroethene	96	11.615	11.615	(0.895)	551057	1000.00	1023.09(A)
38 cis-1,2-DCE (part of total)	96	11.615	11.615	(0.895)	551057	1000.00	1023.09(A)
39 Propionitrile	54	11.743	11.743	(0.905)	2231351	50000.0	43793.2
40 Methacrylonitrile	41	11.921	11.921	(0.919)	2200514	10000.0	8104.64
41 Bromochloromethane	128	11.941	11.941	(0.920)	214512	1000.00	969.561
42 Chloroform	83	12.010	12.010	(0.926)	869843	1000.00	992.095
43 1,1,1-Trichloroethane	97	12.246	12.246	(0.944)	706258	1000.00	1056.75(A)
44 Cyclohexane	56	12.276	12.276	(0.946)	532307	1000.00	1094.39(A)
46 1,1-dichloropropene	75	12.434	12.434	(0.958)	614873	1000.00	1016.90(A)
47 Isobutyl alcohol	43	12.503	12.503	(0.964)	875923	50000.0	40940.1
48 Carbon Tetrachloride	117	12.414	12.414	(0.957)	649997	1000.00	1040.14(A)
49 Benzene	78	12.660	12.660	(0.976)	1873729	1000.00	1016.38(A)
50 1,2-Dichloroethane	62	12.720	12.720	(0.980)	550777	1000.00	945.765
51 Trichloroethene	130	13.361	13.361	(1.030)	533821	1000.00	1027.92(A)
52 Methylcyclohexane	83	13.538	13.538	(1.043)	524221	1000.00	1113.85(A)
53 Methylmethacrylate	100	13.627	13.627	(1.050)	954285	10000.0	6120.14
54 1,2-Dichloropropane	63	13.607	13.607	(1.049)	412895	1000.00	846.142
55 1,4-dioxane	88	13.696	13.696	(1.055)	228977	50000.0	43575.1
56 Dibromomethane	174	13.735	13.735	(1.059)	300781	1000.00	999.937
57 Bromodichloromethane	83	13.854	13.854	(1.068)	691901	1000.00	1005.08(A)
58 cis-1,3-Dichloropropene	75	14.248	14.248	(1.098)	769685	1000.00	1024.13(A)
59 4-Methyl-2-pentanone	43	14.337	14.337	(0.917)	954525	2500.00	2187.45
60 Toluene	92	14.524	14.524	(0.929)	1169150	1000.00	1041.58(A)
61 Ethylmethacrylate	99	14.692	14.692	(0.939)	917203	10000.0	10000.0(A)
62 trans-1,3-Dichloropropene	75	14.712	14.712	(0.941)	619174	1000.00	969.353
63 1,1,2-Trichloroethane	97	14.869	14.869	(0.951)	398722	1000.00	944.664
64 2-hexanone	43	14.998	14.998	(0.959)	643000	2500.00	2002.14
65 2-chloroethyl vinyl ether	63	14.080	14.080	(1.085)	225418	1000.00	1127.75(A)

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Data File: /chem/5972hp59.i/D4H11002A59.b/4H11002-CAL659.d
Report Date: 12-Aug-2014 11:29

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
66 1,3-Dichloropropane	76	15.017	15.017	(0.960)	647766	1000.00	933.173
67 Tetrachloroethene	164	14.978	14.978	(0.958)	414571	1000.00	1065.65(A)
68 Dibromochloromethane	129	15.195	15.195	(0.972)	551880	1000.00	1033.75(A)
69 1,2-Dibromoethane	107	15.313	15.313	(0.979)	454326	1000.00	964.270
70 1-Chlorohexane	55	15.560	15.560	(0.995)	335482	1000.00	1035.71(A)
71 Chlorobenzene	112	15.658	15.658	(1.001)	1341758	1000.00	965.014
72 Ethylbenzene	106	15.688	15.688	(1.003)	670751	1000.00	1031.71(A)
73 1,1,1,2-Tetrachloroethane	131	15.708	15.708	(1.004)	514645	1000.00	1041.46(A)
74 m,p-Xylene	106	15.767	15.767	(1.008)	1665102	2000.00	2016.14(A)
75 m,p-Xylene (part of total)	106	15.767	15.767	(1.008)	1665102	2000.00	2016.14(A)
76 o-Xylene	106	16.082	16.082	(1.028)	808898	1000.00	1017.21(A)
77 o-Xylene (part of total)	106	16.082	16.082	(1.028)	808898	1000.00	1017.21(A)
78 Styrene	104	16.092	16.092	(1.029)	1380401	1000.00	1048.28(A)
79 Bromoform	173	16.289	16.289	(0.935)	344658	1000.00	997.874
80 Isopropyl Benzene	105	16.329	16.329	(1.044)	2075350	1000.00	1102.23(A)
81 1,1,2,2-Tetrachloroethane	83	16.566	16.566	(0.951)	574559	1000.00	884.929
82 trans-1,4-dichloro-2-butene	53	16.605	16.605	(1.062)	538758	4000.00	3517.45
83 1,2,3-Trichloropropane	110	16.635	16.635	(1.064)	135822	1000.00	907.188
84 Bromobenzene	156	16.654	16.654	(1.065)	592836	1000.00	1039.66(A)
85 n-Propyl Benzene	91	16.635	16.635	(0.955)	2745969	1000.00	1023.35(A)
86 1,3,5-Trimethyl Benzene	105	16.743	16.743	(0.961)	1667136	1000.00	1049.12(A)
87 2-Chlorotoluene	91	16.763	16.763	(0.963)	1641154	1000.00	979.666
88 4-Chlorotoluene	91	16.851	16.851	(0.968)	1589213	1000.00	1007.71(A)
89 tert-Butyl Benzene	119	17.019	17.019	(0.977)	1615164	1000.00	1043.81(A)
90 1,2,4-Trimethyl Benzene	105	17.059	17.059	(0.980)	1694068	1000.00	1028.86(A)
91 Pentachloroethane	167	17.108	17.108	(0.982)	348144	1000.00	1066.05(A)
92 sec-Butyl Benzene	105	17.187	17.187	(0.987)	2254482	1000.00	1073.21(A)
93 p-Isopropyl Toluene	119	17.276	17.276	(0.992)	1896102	1000.00	1101.48(A)
94 1,3-Dichlorobenzene	146	17.364	17.364	(0.997)	1113227	1000.00	1036.10(A)
95 1,4-Dichlorobenzene	146	17.433	17.433	(1.001)	1121674	1000.00	1010.08(A)
96 n-Butyl Benzene	91	17.611	17.611	(1.011)	1820341	1000.00	1092.09(A)
97 1,2-Dichlorobenzene	146	17.778	17.778	(1.021)	979124	1000.00	991.264
98 1,2-Dibromo-3-Chloropropane	157	18.479	18.479	(1.061)	100129	1000.00	932.436
99 1,2,4-Trichlorobenzene	180	19.356	19.356	(1.112)	702179	1000.00	1043.09(A)
100 Hexachlorobutadiene	225	19.455	19.455	(1.117)	343206	1000.00	1000.08(A)
101 Naphthalene	128	19.701	19.701	(1.131)	1258245	1000.00	912.592
102 1,2,3-Trichlorobenzene	180	20.007	20.007	(1.149)	599424	1000.00	991.210
M 103 1,2-Dichloroethene (total)	96				1036967	2000.00	2035.73(A)
M 104 Xylene (total)	106				2474000	3000.00	3033.35

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Robin Hamm 8/12/2014

Second Source Calibration Verification

SECOND-SOURCE CALIBRATION VERIFICATION

SW 8260B

Client: WESTON SOLUTIONS SDG: 1408028

Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Instrument: 5972hp59 Calibration: 4081203

Lab File ID: 4H11002-SCV159.d Standard ID: 4H07015

Sequence: 4H11002 Injection Date: 08/11/14

Lab Sample ID: 4H11002-SCV1 InjectionTime: 19:16

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Dichlorodifluoromethane	50.00	61.51	23.0 *	20.00
Chloromethane	50.00	55.91	11.8	20.00
Vinyl chloride	50.00	64.14	28.3 *	20.00
Bromomethane	50.00	61.76	23.5 *	20.00
Chloroethane	50.00	58.44	16.9	20.00
Trichlorofluoromethane	50.00	58.57	17.1	20.00
Acrolein	500.0	1090	118 *	20.00
1,1-Dichloroethene	50.00	52.50	5.0	20.00
1,1,1-Trichloro-2,2,2-trifluoroethane	50.00	63.66	27.3 *	20.00
Acetone	125.0	104.6	-16.3	20.00
Iodomethane	50.00	42.61	-14.8	20.00
1,1,2-Trichloro-1,2,2-trifluoroethane	50.00	58.57	17.1	20.00
Carbon disulfide	50.00	55.20	10.4	20.00
3-Chloropropene	50.00	50.82	1.6	20.00
Acetonitrile	50.00	50.18	0.4	20.00
Methyl acetate	50.00	43.14	-13.7	20.00
Methylene chloride	50.00	49.08	-1.8	20.00
Acrylonitrile	500.0	553.6	10.7	20.00
trans-1,2-Dichloroethene	50.00	54.29	8.6	20.00
Methyl tert-butyl ether	50.00	52.33	4.7	20.00
1,1-Dichloroethane	50.00	51.96	3.9	20.00

Environmental Testing Laboratories CompuChem A Division Of Liberty Analytical Corp.

ACCREDITED IN ACCORDANCE WITH nelac

SECOND-SOURCE CALIBRATION VERIFICATION

SW 8260B

Client: WESTON SOLUTIONS SDG: 1408028

Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Instrument: 5972hp59 Calibration: 4081203

Lab File ID: 4H11002-SCV159.d Standard ID: 4H07015

Sequence: 4H11002 Injection Date: 08/11/14

Lab Sample ID: 4H11002-SCV1 InjectionTime: 19:16

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Chloroprene	50.00	57.85	15.7	20.00
Vinyl acetate	50.00	49.65	-0.7	20.00
Isopropyl Ether	50.00	52.13	4.3	20.00
cis-1,2-Dichloroethene	50.00	53.85	7.7	20.00
2,2-Dichloropropane	50.00	54.79	9.6	20.00
Propionitrile	2500	2341	-6.4	20.00
2-Butanone	125.0	112.7	-9.8	20.00
Methacrylonitrile	500.0	460.2	-8.0	20.00
Bromochloromethane	50.00	56.34	12.7	20.00
Chloroform	50.00	52.66	5.3	20.00
1,1,1-Trichloroethane	50.00	54.31	8.6	20.00
Cyclohexane	50.00	81.08	62.2 *	20.00
1,1-Dichloropropene	50.00	57.96	15.9	20.00
Carbon tetrachloride	50.00	54.44	8.9	20.00
1,2-Dichloroethane	50.00	51.33	2.7	20.00
Isobutyl alcohol	2500	2062	-17.5	20.00
Benzene	50.00	54.43	8.9	20.00
Trichloroethene	50.00	55.16	10.3	20.00
Methylcyclohexane	50.00	85.43	70.9 *	20.00
1,2-Dichloropropane	50.00	53.79	7.6	20.00
Dibromomethane	50.00	52.21	4.4	20.00

Environmental Testing Laboratories CompuChem A Division Of Liberty Analytical Corp.

ACCREDITED IN ACCORDANCE WITH nelac

SECOND-SOURCE CALIBRATION VERIFICATION

SW 8260B

Client: WESTON SOLUTIONS SDG: 1408028

Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Instrument: 5972hp59 Calibration: 4081203

Lab File ID: 4H11002-SCV159.d Standard ID: 4H07015

Sequence: 4H11002 Injection Date: 08/11/14

Lab Sample ID: 4H11002-SCV1 InjectionTime: 19:16

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
1,4-Dioxane	2500	2050	-18.0	20.00
Methyl Methacrylate	500.0	433.1	-13.4	20.00
Bromodichloromethane	50.00	46.37	-7.3	20.00
2-Chloroethylvinyl ether	50.00	45.51	-9.0	20.00
cis-1,3-Dichloropropene	50.00	54.12	8.2	20.00
4-Methyl-2-pentanone	125.0	119.1	-4.7	20.00
Toluene	50.00	54.59	9.2	20.00
trans-1,3-Dichloropropene	50.00	53.49	7.0	20.00
1,1,2-Trichloroethane	50.00	51.08	2.2	20.00
Ethyl Methacrylate	500.0	475.6	-4.9	20.00
1,3-Dichloropropane	50.00	49.50	-1.0	20.00
Tetrachloroethene	50.00	60.50	21.0 *	20.00
2-Hexanone	125.0	114.8	-8.1	20.00
1-Chlorohexane	50.00	101.5	103 *	20.00
Dibromochloromethane	50.00	48.03	-3.9	20.00
1,2-Dibromoethane	50.00	51.89	3.8	20.00
Chlorobenzene	50.00	54.34	8.7	20.00
1,1,1,2-Tetrachloroethane	50.00	53.26	6.5	20.00
Ethylbenzene	50.00	56.07	12.1	20.00
m,p-Xylene	100.0	113.6	13.6	20.00
o-Xylene	50.00	57.25	14.5	20.00

Environmental Testing Laboratories Inc. CompuChem A Division Of Liberty Analytical Corp.

ACCREDITED IN ACCORDANCE WITH nelac

SECOND-SOURCE CALIBRATION VERIFICATION

SW 8260B

Client: WESTON SOLUTIONS

SDG: 1408028

Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Instrument: 5972hp59

Calibration: 4081203

Lab File ID: 4H11002-SCV159.d

Standard ID: 4H07015

Sequence: 4H11002

Injection Date: 08/11/14

Lab Sample ID: 4H11002-SCV1

InjectionTime: 19:16

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Styrene	50.00	39.87	-20.3 *	20.00
Bromoform	50.00	48.92	-2.2	20.00
Isopropylbenzene	50.00	62.08	24.2 *	20.00
1,1,2,2-Tetrachloroethane	50.00	51.31	2.6	20.00
1,2,3-Trichloropropane	50.00	48.40	-3.2	20.00
Bromobenzene	50.00	51.83	3.7	20.00
trans-1,4-Dichloro-2-butene	200.0	209.4	4.7	20.00
n-Propylbenzene	50.00	59.48	19.0	20.00
2-Chlorotoluene	50.00	58.33	16.7	20.00
4-Chlorotoluene	50.00	59.37	18.7	20.00
1,3,5-Trimethylbenzene	50.00	61.01	22.0 *	20.00
Pentachloroethane	50.00	84.95	69.9 *	20.00
tert-Butylbenzene	50.00	61.77	23.5 *	20.00
1,2,4-Trimethylbenzene	50.00	61.15	22.3 *	20.00
sec-Butylbenzene	50.00	64.51	29.0 *	20.00
1,3-Dichlorobenzene	50.00	57.23	14.5	20.00
p-Isopropyltoluene	50.00	63.09	26.2 *	20.00
1,4-Dichlorobenzene	50.00	57.30	14.6	20.00
1,2-Dichlorobenzene	50.00	57.85	15.7	20.00
n-Butylbenzene	50.00	66.56	33.1 *	20.00
1,2-Dibromo-3-chloropropane	50.00	50.74	1.5	20.00

Environmental Testing Laboratories CompuChem A Division Of Liberty Analytical Corp.

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SECOND-SOURCE CALIBRATION VERIFICATION

SW 8260B

Client: WESTON SOLUTIONS

SDG: 1408028

Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Instrument: 5972hp59

Calibration: 4081203

Lab File ID: 4H11002-SCV159.d

Standard ID: 4H07015

Sequence: 4H11002

Injection Date: 08/11/14

Lab Sample ID: 4H11002-SCV1

InjectionTime: 19:16

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
1,2,4-Trichlorobenzene	50.00	58.42	16.8	20.00
Hexachlorobutadiene	50.00	63.57	27.1 *	20.00
Naphthalene	50.00	55.62	11.2	20.00
1,2,3-Trichlorobenzene	50.00	57.47	14.9	20.00
Diethyl ether	50.00	0.000		20.00
Tetrahydrofuran	200.0	0.000		20.00
Dibromofluoromethane	50.00	46.71	-6.6	20.00
1,2-Dichloroethane-d4	50.00	46.01	-8.0	20.00
Toluene-d8	50.00	49.40	-1.2	20.00
Bromofluorobenzene	50.00	52.29	4.6	20.00

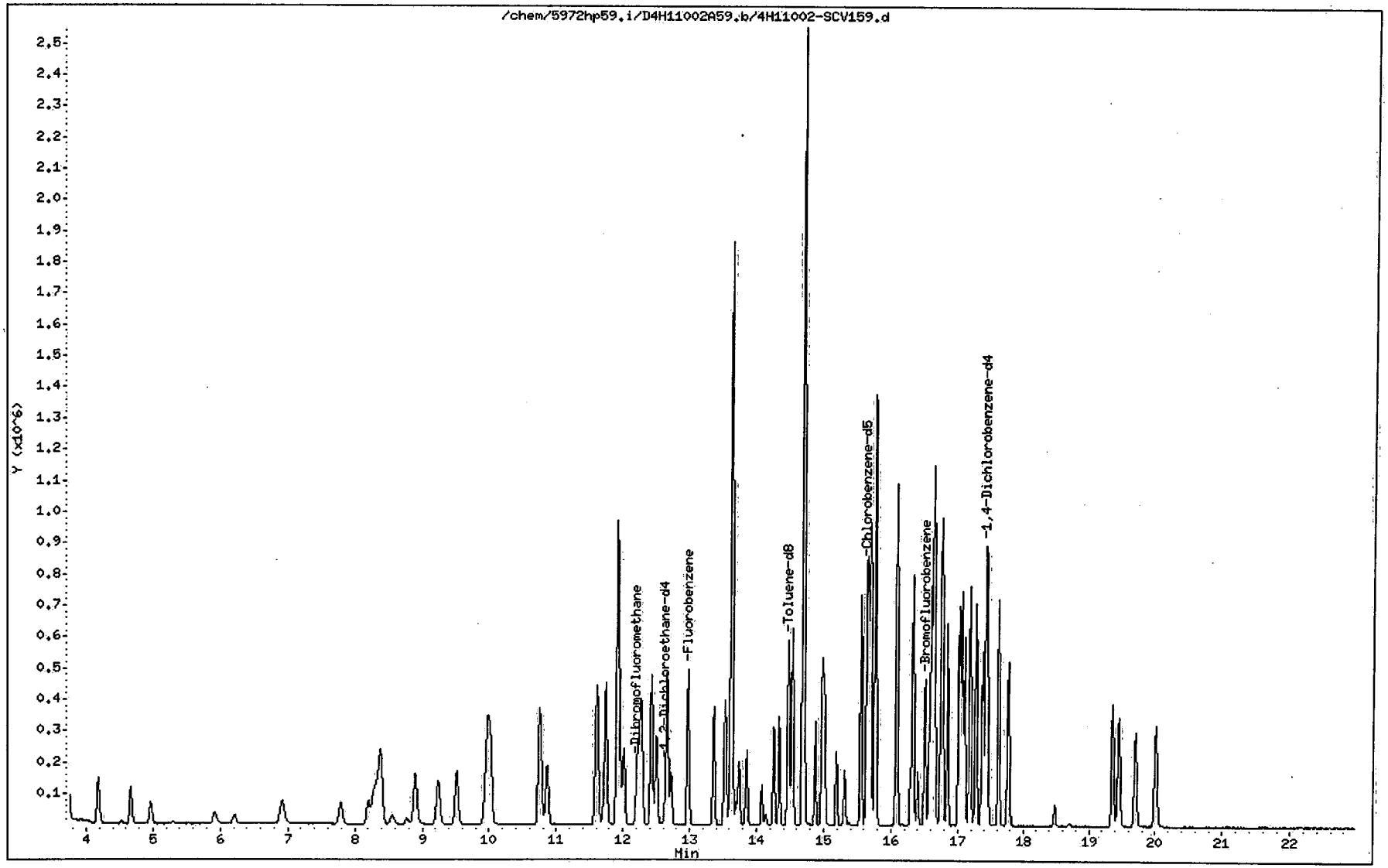
* Values outside of QC limits

Environmental Testing Laboratories CompuChem A Division Of Liberty Analytical Corp.

ACCREDITED IN ACCORDANCE WITH nelac

Data File: /chem/5972hp59.i/D4H11002A59.b/4H11002-SCV159.d
Date : 11-AUG-2014 19:16
Client ID: VSTD050FT
Sample Info: 4H11002-SCV1:JAO
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5972hp59.i
Operator: JAO
Column diameter: 0.32



8/12/2014

Data File: /chem/5972hp59.i/D4H11002A59.b/4H11002-SCV159.d
Report Date: 12-Aug-2014 11:30

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp59.i/D4H11002A59.b/4H11002-SCV159.d
Lab Smp Id: 4H11002-SCV1 Client Smp ID: VSTD050FT
Inj Date : 11-AUG-2014 19:16
Operator : JAO Inst ID: 5972hp59.i
Smp Info : 4H11002-SCV1:JAO
Misc Info : VSTD050FT
Comment :
Method : /chem/5972hp59.i/D4H11002A59.b/8260B_5ppbv5.m
Meth Date : 12-Aug-2014 11:30 ron Quant Type: ISTD
Cal Date : 11-AUG-2014 18:02 Cal File: 4H11002-CAL3R59.d
Als bottle: 13 QC Sample: QCCHECK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SCV.sub
Target Version: 3.50
Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	5.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	12.975	12.972	(1.000)	526430	250.000	
* 2 Chlorobenzene-d5	117	15.638	15.634	(1.000)	454884	250.000	
* 3 1,4-Dichlorobenzene-d4	152	17.413	17.419	(1.000)	216289	250.000	
$ 4 Dibromofluoromethane	113	12.206	12.212	(0.941)	139814	233.573	46.7146
$ 5 1,2-Dichloroethane-d4	65	12.630	12.636	(0.973)	116750	230.036	46.0073
$ 6 Toluene-d8	98	14.474	14.471	(0.926)	458803	246.994	49.3988
$ 7 Bromofluorobenzene	95	16.506	16.502	(0.948)	180563	261.460	52.2919
8 Dichlorodifluoromethane	85	4.179	4.185	(0.322)	214141	307.547	61.5094(R)
9 Chloromethane	50	4.672	4.678	(0.360)	168591	279.562	55.9123
10 Vinyl Chloride	62	4.968	4.964	(0.383)	116664	320.724	64.1448(R)
11 Bromomethane	94	5.915	5.931	(0.456)	51332	308.797	61.7594(R)
12 Chloroethane	64	6.210	6.207	(0.479)	44522	292.211	58.4423
13 Trichlorofluoromethane	101	8.350	8.347	(0.644)	168112	292.859	58.5717
14 Acrolein	56	8.202	8.199	(0.632)	134844	5448.31	1089.66(R)
15 1,1,1-trichloro-2,2,2-trifluo	117	8.291	8.288	(0.639)	61302	318.309	63.6618(R)

8/12/2014

Data File: /chem/5972hp59.i/D4H11002A59.b/4H11002-SCV159.d
Report Date: 12-Aug-2014 11:30

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
16 1,1,2-trichloro-1,2,2-trifluo	101	8.350	8.347	(0.644)	168112	292.859	58.5717
17 1,1-Dichloroethene	96	8.380	8.386	(0.646)	112754	262.513	52.5027
18 Acetone	43	8.557	8.564	(0.660)	55892	523.082	104.616
19 Iodomethane	142	8.774	8.781	(0.676)	46404	213.047	42.6094
20 Carbon disulfide	76	8.893	8.889	(0.685)	452586	276.020	55.2039
21 3-Chloropropene	76	9.228	9.224	(0.711)	48397	254.076	50.8152
22 Acetonitrile	41	9.228	9.234	(0.711)	136399	250.896	50.1793
23 Methyl acetate	43	9.258	9.254	(0.713)	102147	215.681	43.1362
24 Methylene Chloride	84	9.514	9.510	(0.733)	130092	245.379	49.0758
25 Acrylonitrile	53	10.017	10.023	(0.772)	334975	2768.24	553.648
26 Methyl-tert-butyl ether	73	9.948	9.954	(0.767)	283513	261.630	52.3261
28 trans-1,2-Dichloroethene	96	9.977	9.984	(0.769)	131435	271.470	54.2941
29 trans-1,2-DCE (part of total)	96	9.977	9.984	(0.769)	131435	271.470	54.2941
31 Isopropyl ether	45	10.766	10.763	(0.830)	385451	260.660	52.1320
32 1,1-Dichloroethane	63	10.747	10.743	(0.828)	222490	259.815	51.9630
33 Vinyl acetate	43	10.756	10.753	(0.829)	166998	248.259	49.6518
34 Chloroprene	53	10.865	10.861	(0.837)	166976	289.237	57.8475
35 2-butanone	43	11.605	11.611	(0.894)	107450	563.689	112.738
36 2,2-Dichloropropane	77	11.595	11.601	(0.894)	174105	273.960	54.7920
37 cis-1,2-Dichloroethene	96	11.614	11.621	(0.895)	145614	269.229	53.8458
38 cis-1,2-DCE (part of total)	96	11.614	11.621	(0.895)	145614	269.229	53.8458
39 Propionitrile	54	11.743	11.749	(0.905)	589781	11704.3	2340.86
40 Methacrylonitrile	41	11.920	11.916	(0.919)	604521	2301.05	460.210
41 Bromochloromethane	128	11.940	11.936	(0.920)	62590	281.694	56.3388
42 Chloroform	83	12.009	12.015	(0.926)	226212	263.316	52.6632
43 1,1,1-Trichloroethane	97	12.245	12.242	(0.944)	182461	271.565	54.3131
44 Cyclohexane	56	12.275	12.271	(0.946)	202686	405.415	81.0830(R)
46 1,1-dichloropropene	75	12.433	12.429	(0.958)	177739	289.810	57.9621
47 Isobutyl alcohol	43	12.492	12.498	(0.963)	218528	10308.2	2061.64
48 Carbon Tetrachloride	117	12.423	12.419	(0.957)	171132	272.185	54.4370
49 Benzene	78	12.670	12.666	(0.976)	501955	272.137	54.4274
50 1,2-Dichloroethane	62	12.719	12.725	(0.980)	146795	256.629	51.3259
51 Trichloroethene	130	13.360	13.356	(1.030)	142505	275.790	55.1580
52 Methylcyclohexane	83	13.537	13.534	(1.043)	206860	427.149	85.4299(R)
53 Methylmethacrylate	100	13.626	13.632	(1.050)	311714	2165.46	433.093
54 1,2-Dichloropropane	63	13.606	13.613	(1.049)	129304	268.944	53.7887
55 1,4-dioxane	88	13.695	13.692	(1.055)	54067	10248.9	2049.77
56 Dibromomethane	174	13.735	13.741	(1.059)	78576	261.030	52.2059
57 Bromodichloromethane	83	13.853	13.849	(1.068)	159174	231.874	46.3748
58 cis-1,3-Dichloropropene	75	14.247	14.254	(1.098)	201897	270.587	54.1175
59 4-Methyl-2-pentanone	43	14.336	14.332	(0.917)	264254	595.577	119.115
60 Toluene	92	14.523	14.530	(0.929)	316592	272.926	54.5852
61 Ethylmethacrylate	99	14.691	14.687	(0.939)	265185	2377.82	475.565
62 trans-1,3-Dichloropropene	75	14.711	14.707	(0.941)	174183	267.445	53.4891
63 1,1,2-Trichloroethane	97	14.869	14.865	(0.951)	108371	255.401	51.0802
64 2-hexanone	43	14.997	15.003	(0.959)	186512	574.245	114.849
65 2-chloroethyl vinyl ether	63	14.080	14.076	(1.085)	47164	227.557	45.5114

8/12/2014

Data File: /chem/5972hp59.i/D4H11002A59.b/4H11002-SCV159.d
Report Date: 12-Aug-2014 11:30

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
66 1,3-Dichloropropane	76	15.017	15.013	(0.960)	175690	247.483	49.4966
67 Tetrachloroethene	164	14.977	14.973	(0.958)	122324	302.479	60.4958(R)
68 Dibromochloromethane	129	15.194	15.190	(0.972)	132251	240.134	48.0268
69 1,2-Dibromoethane	107	15.312	15.309	(0.979)	123599	259.425	51.8851
70 1-Chlorohexane	55	15.559	15.555	(0.995)	169248	507.576	101.515
71 Chlorobenzene	112	15.657	15.664	(1.001)	386651	271.707	54.3414
72 Ethylbenzene	106	15.687	15.693	(1.003)	189017	280.373	56.0746
73 1,1,1,2-Tetrachloroethane	131	15.707	15.703	(1.004)	133895	266.289	53.2578
74 m,p-Xylene	106	15.776	15.772	(1.009)	485658	567.893	113.579
75 m,p-Xylene (part of total)	106	15.776	15.772	(1.009)	485658	567.893	113.579
76 o-Xylene	106	16.081	16.088	(1.028)	236748	286.235	57.2471
77 o-Xylene (part of total)	106	16.081	16.088	(1.028)	236748	286.235	57.2471
78 Styrene	104	16.091	16.088	(1.029)	274725	199.335	39.8670(R)
79 Bromoform	173	16.298	16.295	(0.936)	82049	244.623	48.9246
80 Isopropyl Benzene	105	16.328	16.334	(1.044)	612860	310.401	62.0802(R)
81 1,1,2,2-Tetrachloroethane	83	16.565	16.571	(0.951)	158594	256.566	51.3132
82 trans-1,4-dichloro-2-butene	53	16.604	16.601	(1.062)	160674	1047.22	209.445
83 1,2,3-Trichloropropane	110	16.634	16.630	(1.064)	36602	241.999	48.3997
84 Bromobenzene	156	16.653	16.660	(1.065)	154555	259.126	51.8252
85 n-Propyl Benzene	91	16.634	16.640	(0.955)	785364	297.403	59.4807
86 1,3,5-Trimethyl Benzene	105	16.752	16.748	(0.962)	481970	305.046	61.0093(R)
87 2-Chlorotoluene	91	16.772	16.768	(0.963)	472186	291.670	58.3341
88 4-Chlorotoluene	91	16.851	16.847	(0.968)	450493	296.857	59.3714
89 tert-Butyl Benzene	119	17.018	17.015	(0.977)	474671	308.873	61.7746(R)
90 1,2,4-Trimethyl Benzene	105	17.058	17.054	(0.980)	499426	305.725	61.1449(R)
91 Pentachloroethane	167	17.107	17.103	(0.982)	136030	424.765	84.9529(R)
92 sec-Butyl Benzene	105	17.186	17.192	(0.987)	680967	322.540	64.5079(R)
93 p-Isopropyl Toluene	119	17.275	17.271	(0.992)	537909	315.428	63.0856(R)
94 1,3-Dichlorobenzene	146	17.363	17.370	(0.997)	302163	286.130	57.2260
95 1,4-Dichlorobenzene	146	17.442	17.439	(1.002)	310353	286.477	57.2954
96 n-Butyl Benzene	91	17.610	17.616	(1.011)	554333	332.812	66.5624(R)
97 1,2-Dichlorobenzene	146	17.778	17.774	(1.021)	281187	289.248	57.8497
98 1,2-Dibromo-3-Chloropropane	157	18.478	18.474	(1.061)	27040	253.710	50.7419
99 1,2,4-Trichlorobenzene	180	19.355	19.362	(1.112)	191474	292.124	58.4249
100 Hexachlorobutadiene	225	19.454	19.450	(1.117)	106439	317.833	63.5666(R)
101 Naphthalene	128	19.701	19.697	(1.131)	381148	278.086	55.6171
102 1,2,3-Trichlorobenzene	180	20.006	20.003	(1.149)	171997	287.347	57.4694
M 103 1,2-Dichloroethene (total)	96				277049	540.576	108.115
M 104 Xylene (total)	106				722406	854.129	170.826

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

8/12/2014

Data File: /chem/5972hp59.i/D4H11002A59.b/4H11002-SCV159.d
Report Date: 12-Aug-2014 11:30

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp59.i/D4H11002A59.b/4H11002-SCV159.d
Lab Smp Id: 4H11002-SCV1 Client Smp ID: VSTD050FT
Inj Date : 11-AUG-2014 19:16
Operator : JAO Inst ID: 5972hp59.i
Smp Info : 4H11002-SCV1:JAO
Misc Info : VSTD050FT
Comment :
Method : /chem/5972hp59.i/D4H11002A59.b/8260B_5ppbv5.m
Meth Date : 12-Aug-2014 11:30 ron Quant Type: ISTD
Cal Date : 11-AUG-2014 18:02 Cal File: 4H11002-CAL3R59.d
Als bottle: 13 QC Sample: QCCHECK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SCV.sub
Target Version: 3.50
Processing Host: dante

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

8/12/2014

M. Continuing Calibration Data

(CONTINUING CALIBRATION CHECK)

If more than one instrument is used, forms shall be arranged in order by instrument. If multiple continuing calibrations from the same instrument are used, they shall be in chronological order.

RICs and Quantitation reports for all continuing (12-hour) calibrations. Spectra not required.

EICPs displaying each manual integration.

CONTINUING CALIBRATION CHECK

SW 8260B

Client: WESTON SOLUTIONS SDG: 1408028

Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Instrument ID: 5972hp59 Calibration: 4081203

Lab File ID: 4H13004-ICV159.d Calibration Date: 08/11/14 13:58

Sequence: 4H13004 Injection Date: 08/13/14

Lab Sample ID: 4H13004-ICV1 Injection Time: 13:39

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT
Dichlorodifluoromethane	Avg	50.00	45.28	0.3306647	0.2994588	0.001	-9.4	90
Chloromethane	Avg	50.00	40.99	0.2863888	0.2347859	0.1	-18.0	90
Vinyl chloride	Avg	50.00	47.10	0.1727448	0.1627195	0.001	-5.8	20
Bromomethane	Avg	50.00	45.34	7.894321E-02	7.158701E-02	0.001	-9.3	90
Chloroethane	Avg	50.00	49.53	7.235638E-02	7.167131E-02	0.001	-0.9	90
Trichlorofluoromethane	Avg	50.00	42.25	0.272609	0.2303594	0.001	-15.5	90
Acrolein	Avg	500.0	395.4	1.175355E-02	9.294246E-03	0.001	-20.9	90
1,1-Dichloroethene	Avg	50.00	48.86	0.2039764	0.1993362	0.001	-2.3	20
1,1,1-Trichloro-2,2,2-trifluoroethane	Avg	50.00	41.55	9.145869E-02	7.599364E-02	0.001	-16.9	90
Acetone	Avg	125.0	97.27	0.0507434	3.948575E-02	0.001	-22.2	90
Iodomethane	Q	50.00	35.85	7.223861E-02	7.545149E-02	0.001	-28.3	90
1,1,2-Trichloro-1,2,2-trifluoroethane	Avg	50.00	42.25	0.272609	0.2303594	0.001	-15.5	90
Carbon disulfide	Avg	50.00	47.80	0.7786825	0.7443892	0.001	-4.4	90
3-Chloropropene	Avg	50.00	56.40	9.045947E-02	0.10204	0.001	12.8	90
Acetonitrile	Avg	50.00	49.94	0.2581761	0.2578587	0.001	-0.1	90
Methyl acetate	Avg	50.00	43.19	0.2249125	0.1942849	0.001	-13.6	90
Methylene chloride	Avg	50.00	51.60	0.251775	0.2598356	0.001	3.2	90
Acrylonitrile	Lin	500.0	461.7	5.737815E-02	5.332117E-02	0.001	-7.7	90
trans-1,2-Dichloroethene	Avg	50.00	49.38	0.229926	0.2270735	0.001	-1.2	90
Methyl tert-butyl ether	Avg	50.00	50.18	0.5146171	0.5164282	0.001	0.4	90
1,1-Dichloroethane	Avg	50.00	46.65	0.406673	0.3794624	0.1	-6.7	90
Chloroprene	Avg	50.00	47.06	0.2741567	0.2580306	0.001	-5.9	90
Vinyl acetate	Avg	50.00	45.54	0.319452	0.2909745	0.001	-8.9	90
Isopropyl Ether	Avg	50.00	47.88	0.7022533	0.6725212	0.001	-4.2	90

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CONTINUING CALIBRATION CHECK

SW 8260B

Client: WESTON SOLUTIONS SDG: 1408028

Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Instrument ID: 5972hp59 Calibration: 4081203

Lab File ID: 4H13004-ICV159.d Calibration Date: 08/11/14 13:58

Sequence: 4H13004 Injection Date: 08/13/14

Lab Sample ID: 4H13004-ICV1 Injection Time: 13:39

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT
cis-1,2-Dichloroethene	Avg	50.00	47.90	0.2568505	0.2460752	0.001	-4.2	90
2,2-Dichloropropane	Avg	50.00	47.47	0.3018032	0.2865547	0.001	-5.1	90
Propionitrile	Avg	2500	2245	2.393009E-02	2.148632E-02	0.001	-10.2	90
2-Butanone	Avg	125.0	102.0	9.052452E-02	7.383231E-02	0.001	-18.4	90
Methacrylonitrile	Avg	500.0	445.0	0.1247626	0.1110394	0.001	-11.0	90
Bromochloromethane	Avg	50.00	54.27	0.105518	0.114531	0.001	8.5	90
Chloroform	Avg	50.00	49.39	0.4079786	0.402965	0.001	-1.2	20
1,1,1-Trichloroethane	Avg	50.00	48.24	0.3190765	0.3078159	0.001	-3.5	90
Cyclohexane	Avg	50.00	38.37	0.2374232	0.1821907	0.001	-23.3	90
1,1-Dichloropropene	Avg	50.00	50.37	0.2912515	0.2933877	0.001	0.7	90
Carbon tetrachloride	Avg	50.00	47.48	0.2985839	0.2835117	0.001	-5.0	90
1,2-Dichloroethane	Avg	50.00	45.92	0.2716465	0.2494686	0.001	-8.2	90
Isobutyl alcohol	Avg	2500	2341	1.006756E-02	9.426411E-03	0.001	-6.4	90
Benzene	Avg	50.00	50.92	0.875944	0.8921319	0.001	1.8	90
Trichloroethene	Avg	50.00	50.77	0.2453866	0.2491595	0.001	1.5	90
Methylcyclohexane	Avg	50.00	38.04	0.2299833	0.1749576	0.001	-23.9	90
1,2-Dichloropropane	Avg	50.00	48.82	0.2283232	0.2229148	0.001	-2.4	20
Dibromomethane	Avg	50.00	55.36	0.142955	0.1582832	0.001	10.7	90
1,4-Dioxane	Avg	2500	2502	2.505276E-03	2.50695E-03	0.001	0.07	90
Methyl Methacrylate	Avg	500.0	456.8	6.836043E-02	6.244946E-02	0.001	-8.6	90
Bromodichloromethane	Avg	50.00	48.63	0.3260014	0.3170539	0.001	-2.7	90
2-Chloroethylvinyl ether	Avg	50.00	50.51	9.842835E-02	9.943669E-02	0.001	1.0	90
cis-1,3-Dichloropropene	Avg	50.00	47.92	0.3543411	0.3396061	0.001	-4.2	90
4-Methyl-2-pentanone	Avg	125.0	109.7	0.2438501	0.2140248	0.001	-12.2	90

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CONTINUING CALIBRATION CHECK

SW 8260B

Client: WESTON SOLUTIONS SDG: 1408028

Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Instrument ID: 5972hp59 Calibration: 4081203

Lab File ID: 4H13004-ICV159.d Calibration Date: 08/11/14 13:58

Sequence: 4H13004 Injection Date: 08/13/14

Lab Sample ID: 4H13004-ICV1 Injection Time: 13:39

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT
Toluene	Avg	50.00	52.94	0.6375204	0.6750075	0.001	5.9	20
trans-1,3-Dichloropropene	Avg	50.00	50.20	0.35794	0.3593845	0.001	0.4	90
1,1,2-Trichloroethane	Avg	50.00	51.44	0.2332006	0.239903	0.001	2.9	90
Ethyl Methacrylate	Q	500.0	505.8	5.139127E-02	6.189862E-02	0.001	1.2	90
1,3-Dichloropropane	Avg	50.00	49.96	0.3901586	0.3898823	0.001	-0.07	90
Tetrachloroethene	Avg	50.00	51.40	0.2222573	0.228496	0.001	2.8	90
2-Hexanone	Avg	125.0	111.8	0.1785043	0.1596285	0.001	-10.6	90
1-Chlorohexane	Avg	50.00	45.99	0.1832577	0.1685572	0.001	-8.0	90
Dibromochloromethane	Avg	50.00	51.61	0.3026805	0.3124201	0.001	3.2	90
1,2-Dibromoethane	Avg	50.00	53.00	0.2618436	0.2775794	0.001	6.0	90
Chlorobenzene	Avg	50.00	55.03	0.782091	0.8608121	0.3	10.1	90
1,1,1,2-Tetrachloroethane	Avg	50.00	53.43	0.2763443	0.295297	0.001	6.9	90
Ethylbenzene	Avg	50.00	55.36	0.3705134	0.4102083	0.001	10.7	20
m,p-Xylene	Avg	100.0	101.0	0.4700056	0.474827	0.001	1.0	90
o-Xylene	Avg	50.00	52.97	0.4545718	0.4816066	0.001	5.9	90
Styrene	Avg	50.00	54.34	0.7574505	0.8231571	0.001	8.7	90
Bromoform	Avg	50.00	54.49	0.3876874	0.4225116	0.1	9.0	90
Isopropylbenzene	Avg	50.00	53.19	1.085119	1.154318	0.001	6.4	90
1,1,2,2-Tetrachloroethane	Avg	50.00	49.34	0.7144854	0.7050905	0.3	-1.3	90
1,2,3-Trichloropropane	Avg	50.00	49.63	8.312491E-02	0.0825043	0.001	-0.7	90
Bromobenzene	Avg	50.00	55.17	0.3278016	0.3616978	0.001	10.3	90
trans-1,4-Dichloro-2-butene	Avg	200.0	197.2	8.432291E-02	8.312778E-02	0.001	-1.4	90
n-Propylbenzene	Avg	50.00	49.32	3.052323	3.010804	0.001	-1.4	90
2-Chlorotoluene	Avg	50.00	53.30	1.871227	1.994592	0.001	6.6	90

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CONTINUING CALIBRATION CHECK

SW 8260B

Client: WESTON SOLUTIONS SDG: 1408028

Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Instrument ID: 5972hp59 Calibration: 4081203

Lab File ID: 4H13004-ICV159.d Calibration Date: 08/11/14 13:58

Sequence: 4H13004 Injection Date: 08/13/14

Lab Sample ID: 4H13004-ICV1 Injection Time: 13:39

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT
4-Chlorotoluene	Avg	50.00	50.50	1.754066	1.771666	0.001	1.0	90
1,3,5-Trimethylbenzene	Avg	50.00	54.32	1.826248	1.983918	0.001	8.6	90
Pentachloroethane	Avg	50.00	53.48	0.3701621	0.395959	0.001	7.0	90
tert-Butylbenzene	Avg	50.00	48.95	1.77631	1.738993	0.001	-2.1	90
1,2,4-Trimethylbenzene	Avg	50.00	52.46	1.888192	1.981028	0.001	4.9	90
sec-Butylbenzene	Avg	50.00	48.53	2.44033	2.368521	0.001	-2.9	90
1,3-Dichlorobenzene	Avg	50.00	55.53	1.220628	1.355596	0.001	11.1	90
p-Isopropyltoluene	Avg	50.00	51.01	1.971125	2.010792	0.001	2.0	90
1,4-Dichlorobenzene	Avg	50.00	54.59	1.252195	1.367253	0.001	9.2	90
1,2-Dichlorobenzene	Avg	50.00	55.73	1.123647	1.252506	0.001	11.5	90
n-Butylbenzene	Avg	50.00	47.34	1.925206	1.822617	0.001	-5.3	90
1,2-Dibromo-3-chloropropane	Avg	50.00	56.37	0.12319	0.1388832	0.001	12.7	90
1,2,4-Trichlorobenzene	Avg	50.00	55.46	0.7576136	0.8403908	0.001	10.9	90
Hexachlorobutadiene	Lin	50.00	39.28	0.3522287	0.3013118	0.001	-21.4	90
Naphthalene	Avg	50.00	55.50	1.58424	1.758579	0.001	11.0	90
1,2,3-Trichlorobenzene	Avg	50.00	53.27	0.6918626	0.7371329	0.001	6.5	90
Diethyl ether	Avg	50.00	0.000			0.001		90
Tetrahydrofuran	Avg	200.0	0.000			0.001		90
Dibromofluoromethane	Avg	50.00	47.10	0.2842674	0.2677513	0.001	-5.8	90
1,2-Dichloroethane-d4	Avg	50.00	43.76	0.2410236	0.2109462	0.001	-12.5	90
Toluene-d8	Avg	50.00	52.36	1.02089	1.068994	0.001	4.7	90
Bromofluorobenzene	Avg	50.00	51.88	0.7982333	0.8282716	0.001	3.8	90

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

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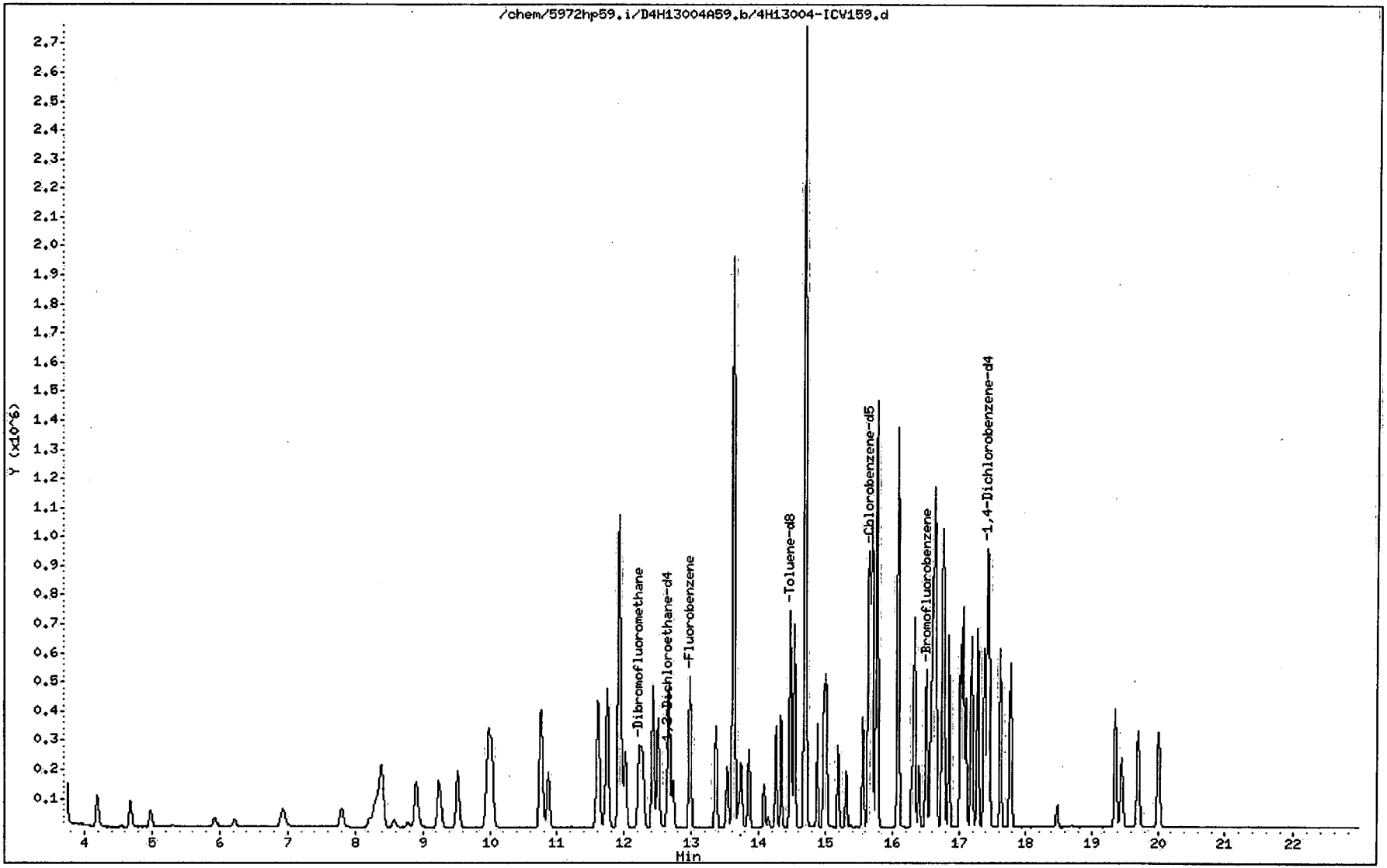
Data File: /chem/5972hp59.i/D4H13004A59.b/4H13004-ICV159.d
Date : 13-AUG-2014 13:39
Client ID: VSTD050FW
Sample Info: 4H13004-ICV1:JAO
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5972hp59.i
Operator: JAO
Column diameter: 0.32



8/14/2014

Data File: /chem/5972hp59.i/D4H13004A59.b/4H13004-ICV159.d
Report Date: 14-Aug-2014 13:26

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp59.i/D4H13004A59.b/4H13004-ICV159.d
Lab Smp Id: 4H13004-ICV1 Client Smp ID: VSTD050FW
Inj Date : 13-AUG-2014 13:39
Operator : JAO Inst ID: 5972hp59.i
Smp Info : 4H13004-ICV1:JAO
Misc Info : VSTD050FW
Comment :
Method : /chem/5972hp59.i/D4H13004A59.b/8260B_5ppbv5.m
Meth Date : 14-Aug-2014 13:26 ron Quant Type: ISTD
Cal Date : 11-AUG-2014 18:02 Cal File: 4H11002-CAL3R59.d
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DC.sub
Target Version: 3.50
Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	5.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
* 1 Fluorobenzene	96	12.983	12.972	(1.000)	604998	250.000	
* 2 Chlorobenzene-d5	117	15.636	15.634	(1.000)	514858	250.000	
* 3 1,4-Dichlorobenzene-d4	152	17.421	17.419	(1.000)	255380	250.000	
$ 4 Dibromofluoromethane	113	12.214	12.212	(0.941)	161989	250.000	235.475
$ 5 1,2-Dichloroethane-d4	65	12.638	12.636	(0.973)	127622	250.000	218.802
$ 6 Toluene-d8	98	14.472	14.471	(0.926)	550380	250.000	261.780
$ 7 Bromofluorobenzene	95	16.504	16.502	(0.947)	211524	250.000	259.408
8 Dichlorodifluoromethane	85	4.187	4.185	(0.322)	181172	250.000	226.407
9 Chloromethane	50	4.680	4.678	(0.360)	142045	250.000	204.954
10 Vinyl Chloride	62	4.976	4.964	(0.383)	98445	250.000	235.491
11 Bromomethane	94	5.923	5.931	(0.456)	43310	250.000	226.704
12 Chloroethane	64	6.218	6.207	(0.479)	43361	250.000	247.633
13 Trichlorofluoromethane	101	8.358	8.347	(0.644)	139367	250.000	211.254
14 Acrolein	56	8.210	8.199	(0.632)	56230	2500.00	1976.90
15 1,1,1-trichloro-2,2,2-trifluo	117	8.299	8.288	(0.639)	45976	250.000	207.727

8/14/2014

Data File: /chem/5972hp59.i/D4H13004A59.b/4H13004-ICV159.d
Report Date: 14-Aug-2014 13:26

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
16 1,1,2-trichloro-1,2,2-trifluo	101	8.358	8.347	(0.644)	139367	250.000	211.254
17 1,1-Dichloroethene	96	8.398	8.386	(0.647)	120598	250.000	244.313
18 Acetone	43	8.575	8.564	(0.660)	59722	625.000	486.341
19 Iodomethane	142	8.782	8.781	(0.676)	45648	250.000	179.269
20 Carbon disulfide	76	8.901	8.889	(0.686)	450354	250.000	238.990
21 3-Chloropropene	76	9.236	9.224	(0.711)	61734	250.000	282.005
22 Acetonitrile	41	9.236	9.234	(0.711)	156004	250.000	249.693
23 Methyl acetate	43	9.266	9.254	(0.714)	117542	250.000	215.956
24 Methylene Chloride	84	9.522	9.510	(0.733)	157200	250.000	258.004
25 Acrylonitrile	53	10.025	10.023	(0.772)	322592	2500.00	2308.33
26 Methyl-tert-butyl ether	73	9.966	9.954	(0.768)	312438	250.000	250.880
28 trans-1,2-Dichloroethene	96	9.985	9.984	(0.769)	137379	250.000	246.898
29 trans-1,2-DCE (part of total)	96	9.985	9.984	(0.769)	137379	250.000	246.898
31 Isopropyl ether	45	10.764	10.763	(0.829)	406874	250.000	239.415
32 1,1-Dichloroethane	63	10.755	10.743	(0.828)	229574	250.000	233.272
33 Vinyl acetate	43	10.764	10.753	(0.829)	176039	250.000	227.714
34 Chloroprene	53	10.863	10.861	(0.837)	156108	250.000	235.295
35 2-butanone	43	11.613	11.611	(0.894)	111671	625.000	509.754
36 2,2-Dichloropropane	77	11.603	11.601	(0.894)	173365	250.000	237.369
37 cis-1,2-Dichloroethene	96	11.622	11.621	(0.895)	148875	250.000	239.512
38 cis-1,2-DCE (part of total)	96	11.622	11.621	(0.895)	148875	250.000	239.512
39 Propionitrile	54	11.751	11.749	(0.905)	649959	12500.0	11223.5
40 Methacrylonitrile	41	11.928	11.916	(0.919)	671786	2500.00	2225.01
41 Bromochloromethane	128	11.948	11.936	(0.920)	69291	250.000	271.354
42 Chloroform	83	12.017	12.015	(0.926)	243793	250.000	246.928
43 1,1,1-Trichloroethane	97	12.244	12.242	(0.943)	186228	250.000	241.177
44 Cyclohexane	56	12.273	12.271	(0.945)	110225	250.000	191.842
46 1,1-dichloropropene	75	12.431	12.429	(0.957)	177499	250.000	251.834
47 Isobutyl alcohol	43	12.500	12.498	(0.963)	285148	12500.0	11703.9
48 Carbon Tetrachloride	117	12.421	12.419	(0.957)	171524	250.000	237.380
49 Benzene	78	12.668	12.666	(0.976)	539738	250.000	254.620
50 1,2-Dichloroethane	62	12.727	12.725	(0.980)	150928	250.000	229.589
51 Trichloroethene	130	13.368	13.356	(1.030)	150741	250.000	253.844
52 Methylcyclohexane	83	13.535	13.534	(1.043)	105849	250.000	190.185
53 Methylmethacrylate	100	13.634	13.632	(1.050)	377818	2500.00	2283.83
54 1,2-Dichloropropane	63	13.614	13.613	(1.049)	134863	250.000	244.078
55 1,4-dioxane	88	13.703	13.692	(1.055)	75835	12500.0	12508.4
56 Dibromomethane	174	13.743	13.741	(1.058)	95761	250.000	276.806
57 Bromodichloromethane	83	13.851	13.849	(1.067)	191817	250.000	243.139
58 cis-1,3-Dichloropropene	75	14.255	14.254	(1.098)	205461	250.000	239.604
59 4-Methyl-2-pentanone	43	14.334	14.332	(0.917)	275481	625.000	548.556
60 Toluene	92	14.531	14.530	(0.929)	347533	250.000	264.700
61 Ethylmethacrylate	99	14.689	14.687	(0.939)	318690	2500.00	2528.86
62 trans-1,3-Dichloropropene	75	14.709	14.707	(0.941)	185032	250.000	251.009
63 1,1,2-Trichloroethane	97	14.877	14.865	(0.951)	123516	250.000	257.185
64 2-hexanone	43	15.005	15.003	(0.960)	205465	625.000	558.910
65 2-chloroethyl vinyl ether	63	14.088	14.076	(1.085)	60159	250.000	252.561

Robin Hu 8/14/2014

Data File: /chem/5972hp59.i/D4H13004A59.b/4H13004-ICV159.d
Report Date: 14-Aug-2014 13:26

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
66 1,3-Dichloropropane	76	15.015	15.013	(0.960)	200734	250.000	249.823
67 Tetrachloroethene	164	14.975	14.973	(0.958)	117643	250.000	257.017
68 Dibromochloromethane	129	15.192	15.190	(0.972)	160852	250.000	258.045
69 1,2-Dibromoethane	107	15.310	15.309	(0.979)	142914	250.000	265.024
70 1-Chlorohexane	55	15.557	15.555	(0.995)	86783	250.000	229.946
71 Chlorobenzene	112	15.665	15.664	(1.002)	443196	250.000	275.164
72 Ethylbenzene	106	15.685	15.693	(1.003)	211199	250.000	276.784
73 1,1,1,2-Tetrachloroethane	131	15.705	15.703	(1.004)	152036	250.000	267.146
74 m,p-Xylene	106	15.774	15.772	(1.009)	488937	500.000	505.129
75 m,p-Xylene (part of total)	106	15.774	15.772	(1.009)	488937	500.000	505.129
76 o-Xylene	106	16.080	16.088	(1.028)	247959	250.000	264.868
77 o-Xylene (part of total)	106	16.080	16.088	(1.028)	247959	250.000	264.868
78 Styrene	104	16.090	16.088	(1.029)	423809	250.000	271.687
79 Bromoform	173	16.297	16.295	(0.935)	107901	250.000	272.456
80 Isopropyl Benzene	105	16.336	16.334	(1.045)	594310	250.000	265.943
81 1,1,2,2-Tetrachloroethane	83	16.573	16.571	(0.951)	180066	250.000	246.713
82 trans-1,4-dichloro-2-butene	53	16.602	16.601	(1.062)	171196	1000.00	985.827
83 1,2,3-Trichloropropane	110	16.632	16.630	(1.064)	42478	250.000	248.133
84 Bromobenzene	156	16.661	16.660	(1.066)	186223	250.000	275.851
85 n-Propyl Benzene	91	16.632	16.640	(0.955)	768899	250.000	246.599
86 1,3,5-Trimethyl Benzene	105	16.750	16.748	(0.961)	506653	250.000	271.584
87 2-Chlorotoluene	91	16.770	16.768	(0.963)	509379	250.000	266.482
88 4-Chlorotoluene	91	16.849	16.847	(0.967)	452448	250.000	252.508
89 tert-Butyl Benzene	119	17.016	17.015	(0.977)	444104	250.000	244.748
90 1,2,4-Trimethyl Benzene	105	17.056	17.054	(0.979)	505915	250.000	262.292
91 Pentachloroethane	167	17.105	17.103	(0.982)	101120	250.000	267.423
92 sec-Butyl Benzene	105	17.184	17.192	(0.986)	604873	250.000	242.644
93 p-Isopropyl Toluene	119	17.273	17.271	(0.991)	513516	250.000	255.031
94 1,3-Dichlorobenzene	146	17.371	17.370	(0.997)	346192	250.000	277.643
95 1,4-Dichlorobenzene	146	17.440	17.439	(1.001)	349169	250.000	272.971
96 n-Butyl Benzene	91	17.618	17.616	(1.011)	465460	250.000	236.678
97 1,2-Dichlorobenzene	146	17.776	17.774	(1.020)	319865	250.000	278.670
98 1,2-Dibromo-3-Chloropropane	157	18.486	18.474	(1.061)	35468	250.000	281.848
99 1,2,4-Trichlorobenzene	180	19.363	19.362	(1.111)	214619	250.000	277.315
100 Hexachlorobutadiene	225	19.452	19.450	(1.117)	76949	250.000	196.424
101 Naphthalene	128	19.699	19.697	(1.131)	449106	250.000	277.512
102 1,2,3-Trichlorobenzene	180	20.014	20.003	(1.149)	188249	250.000	266.358
M 103 1,2-Dichloroethene (total)	96				286254	500.000	486.002
M 104 Xylene (total)	106				736896	750.000	769.997

8/14/2014

CONTINUING CALIBRATION CHECK

SW 8260B

Client: WESTON SOLUTIONS SDG: 1408028

Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Instrument ID: 5972hp59 Calibration: 4081203

Lab File ID: 4H15005-ICV159.d Calibration Date: 08/11/14 13:58

Sequence: 4H15005 Injection Date: 08/15/14

Lab Sample ID: 4H15005-ICV1 Injection Time: 12:59

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT
Dichlorodifluoromethane	Avg	50.00	40.58	0.3306647	0.2683716	0.001	-18.8	90
Chloromethane	Avg	50.00	37.80	0.2863888	0.2165357	0.1	-24.4	90
Vinyl chloride	Avg	50.00	45.48	0.1727448	0.157124	0.001	-9.0	20
Bromomethane	Avg	50.00	30.27	7.894321E-02	4.779211E-02	0.001	-39.5	90
Chloroethane	Avg	50.00	49.01	7.235638E-02	7.091822E-02	0.001	-2.0	90
Trichlorofluoromethane	Avg	50.00	49.46	0.272609	0.2696502	0.001	-1.1	90
Acrolein	Avg	500.0	0.000	1.175355E-02		0.001		90
1,1-Dichloroethene	Avg	50.00	47.28	0.2039764	0.1928963	0.001	-5.4	20
1,1,1-Trichloro-2,2,2-trifluoroethane	Avg	50.00	52.69	9.145869E-02	0.0963832	0.001	5.4	90
Acetone	Avg	125.0	131.7	0.0507434	5.344516E-02	0.001	5.3	90
Iodomethane	Q	50.00	26.06	7.223861E-02	5.444671E-02	0.001	-47.9	90
1,1,2-Trichloro-1,2,2-trifluoroethane	Avg	50.00	49.46	0.272609	0.2696502	0.001	-1.1	90
Carbon disulfide	Avg	50.00	44.98	0.7786825	0.7004285	0.001	-10.0	90
3-Chloropropene	Avg	50.00	52.62	9.045947E-02	9.519619E-02	0.001	5.2	90
Acetonitrile	Avg	50.00	43.56	0.2581761	0.2249104	0.001	-12.9	90
Methyl acetate	Avg	50.00	30.54	0.2249125	0.1373756	0.001	-38.9	90
Methylene chloride	Avg	50.00	48.57	0.251775	0.2445611	0.001	-2.9	90
Acrylonitrile	Lin	500.0	0.000	5.737815E-02		0.001		90
trans-1,2-Dichloroethene	Avg	50.00	48.57	0.229926	0.2233553	0.001	-2.9	90
Methyl tert-butyl ether	Avg	50.00	50.59	0.5146171	0.5206902	0.001	1.2	90
1,1-Dichloroethane	Avg	50.00	45.09	0.406673	0.3667301	0.1	-9.8	90
Chloroprene	Avg	50.00	43.97	0.2741567	0.2411085	0.001	-12.1	90
Vinyl acetate	Avg	50.00	41.57	0.319452	0.2655713	0.001	-16.9	90
Isopropyl Ether	Avg	50.00	45.83	0.7022533	0.6437071	0.001	-8.3	90

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CONTINUING CALIBRATION CHECK

SW 8260B

Client: WESTON SOLUTIONS SDG: 1408028

Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Instrument ID: 5972hp59 Calibration: 4081203

Lab File ID: 4H15005-ICV159.d Calibration Date: 08/11/14 13:58

Sequence: 4H15005 Injection Date: 08/15/14

Lab Sample ID: 4H15005-ICV1 Injection Time: 12:59

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT
cis-1,2-Dichloroethene	Avg	50.00	51.31	0.2568505	0.2635609	0.001	2.6	90
2,2-Dichloropropane	Avg	50.00	42.05	0.3018032	0.2538158	0.001	-15.9	90
Propionitrile	Avg	2500	202.3	2.393009E-02	1.936861E-03	0.001	-91.9	90 *
2-Butanone	Avg	125.0	114.6	9.052452E-02	8.302848E-02	0.001	-8.3	90
Methacrylonitrile	Avg	500.0	216.9	0.1247626	5.411963E-02	0.001	-56.6	90
Bromochloromethane	Avg	50.00	56.38	0.105518	0.1189716	0.001	12.8	90
Chloroform	Avg	50.00	49.46	0.4079786	0.403584	0.001	-1.1	20
1,1,1-Trichloroethane	Avg	50.00	47.41	0.3190765	0.3025535	0.001	-5.2	90
Cyclohexane	Avg	50.00	48.23	0.2374232	0.2290031	0.001	-3.5	90
1,1-Dichloropropene	Avg	50.00	48.79	0.2912515	0.2842045	0.001	-2.4	90
Carbon tetrachloride	Avg	50.00	47.90	0.2985839	0.2860255	0.001	-4.2	90
1,2-Dichloroethane	Avg	50.00	47.14	0.2716465	0.2561226	0.001	-5.7	90
Isobutyl alcohol	Avg	2500	2258	1.006756E-02	9.091165E-03	0.001	-9.7	90
Benzene	Avg	50.00	51.71	0.875944	0.9058854	0.001	3.4	90
Trichloroethene	Avg	50.00	53.98	0.2453866	0.2649297	0.001	8.0	90
Methylcyclohexane	Avg	50.00	53.13	0.2299833	0.2443961	0.001	6.3	90
1,2-Dichloropropane	Avg	50.00	47.50	0.2283232	0.2168962	0.001	-5.0	20
Dibromomethane	Avg	50.00	59.79	0.142955	0.1709587	0.001	19.6	90
1,4-Dioxane	Avg	2500	2895	2.505276E-03	2.901197E-03	0.001	15.8	90
Methyl Methacrylate	Avg	500.0	364.5	6.836043E-02	4.983768E-02	0.001	-27.1	90
Bromodichloromethane	Avg	50.00	49.35	0.3260014	0.3217917	0.001	-1.3	90
2-Chloroethylvinyl ether	Avg	50.00	73.29	9.842835E-02	0.1442823	0.001	46.6	90
cis-1,3-Dichloropropene	Avg	50.00	42.96	0.3543411	0.3044738	0.001	-14.1	90
4-Methyl-2-pentanone	Avg	125.0	114.8	0.2438501	0.2238979	0.001	-8.2	90

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CONTINUING CALIBRATION CHECK

SW 8260B

Client: WESTON SOLUTIONS SDG: 1408028

Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Instrument ID: 5972hp59 Calibration: 4081203

Lab File ID: 4H15005-ICV159.d Calibration Date: 08/11/14 13:58

Sequence: 4H15005 Injection Date: 08/15/14

Lab Sample ID: 4H15005-ICV1 Injection Time: 12:59

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT
Toluene	Avg	50.00	50.85	0.6375204	0.6484029	0.001	1.7	20
trans-1,3-Dichloropropene	Avg	50.00	46.25	0.35794	0.3310977	0.001	-7.5	90
1,1,2-Trichloroethane	Avg	50.00	53.61	0.2332006	0.2500165	0.001	7.2	90
Ethyl Methacrylate	Q	500.0	148.5	5.139127E-02	1.579049E-02	0.001	-70.3	90
1,3-Dichloropropane	Avg	50.00	51.92	0.3901586	0.4051576	0.001	3.8	90
Tetrachloroethene	Avg	50.00	52.73	0.2222573	0.2343731	0.001	5.5	90
2-Hexanone	Avg	125.0	88.29	0.1785043	0.1260852	0.001	-29.4	90
1-Chlorohexane	Avg	50.00	44.20	0.1832577	0.1620069	0.001	-11.6	90
Dibromochloromethane	Avg	50.00	55.65	0.3026805	0.3368666	0.001	11.3	90
1,2-Dibromoethane	Avg	50.00	54.36	0.2618436	0.2846551	0.001	8.7	90
Chlorobenzene	Avg	50.00	50.17	0.782091	0.7847614	0.3	0.3	90
1,1,1,2-Tetrachloroethane	Avg	50.00	52.92	0.2763443	0.2924768	0.001	5.8	90
Ethylbenzene	Avg	50.00	49.08	0.3705134	0.3636692	0.001	-1.8	20
m,p-Xylene	Avg	100.0	99.65	0.4700056	0.4683835	0.001	-0.3	90
o-Xylene	Avg	50.00	52.60	0.4545718	0.4782169	0.001	5.2	90
Styrene	Avg	50.00	48.75	0.7574505	0.738551	0.001	-2.5	90
Bromoform	Avg	50.00	54.89	0.3876874	0.4256284	0.1	9.8	90
Isopropylbenzene	Avg	50.00	54.72	1.085119	1.187591	0.001	9.4	90
1,1,2,2-Tetrachloroethane	Avg	50.00	49.38	0.7144854	0.705692	0.3	-1.2	90
1,2,3-Trichloropropane	Avg	50.00	50.88	8.312491E-02	8.458112E-02	0.001	1.8	90
Bromobenzene	Avg	50.00	53.11	0.3278016	0.348208	0.001	6.2	90
trans-1,4-Dichloro-2-butene	Avg	200.0	142.1	8.432291E-02	5.992964E-02	0.001	-28.9	90
n-Propylbenzene	Avg	50.00	44.57	3.052323	2.720594	0.001	-10.9	90
2-Chlorotoluene	Avg	50.00	47.46	1.871227	1.776284	0.001	-5.1	90

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CONTINUING CALIBRATION CHECK

SW 8260B

Client: WESTON SOLUTIONS SDG: 1408028

Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Instrument ID: 5972hp59 Calibration: 4081203

Lab File ID: 4H15005-ICV159.d Calibration Date: 08/11/14 13:58

Sequence: 4H15005 Injection Date: 08/15/14

Lab Sample ID: 4H15005-ICV1 Injection Time: 12:59

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT
4-Chlorotoluene	Avg	50.00	45.41	1.754066	1.593058	0.001	-9.2	90
1,3,5-Trimethylbenzene	Avg	50.00	51.20	1.826248	1.870176	0.001	2.4	90
Pentachloroethane	Avg	50.00	53.58	0.3701621	0.3966463	0.001	7.2	90
tert-Butylbenzene	Avg	50.00	51.63	1.77631	1.834039	0.001	3.2	90
1,2,4-Trimethylbenzene	Avg	50.00	45.77	1.888192	1.728547	0.001	-8.5	90
sec-Butylbenzene	Avg	50.00	53.59	2.44033	2.615749	0.001	7.2	90
1,3-Dichlorobenzene	Avg	50.00	48.21	1.220628	1.176807	0.001	-3.6	90
p-Isopropyltoluene	Avg	50.00	49.65	1.971125	1.957397	0.001	-0.7	90
1,4-Dichlorobenzene	Avg	50.00	51.17	1.252195	1.281502	0.001	2.3	90
1,2-Dichlorobenzene	Avg	50.00	52.25	1.123647	1.174252	0.001	4.5	90
n-Butylbenzene	Avg	50.00	48.33	1.925206	1.860785	0.001	-3.3	90
1,2-Dibromo-3-chloropropane	Avg	50.00	57.39	0.12319	0.1413932	0.001	14.8	90
1,2,4-Trichlorobenzene	Avg	50.00	49.99	0.7576136	0.7573885	0.001	-0.03	90
Hexachlorobutadiene	Lin	50.00	49.08	0.3522287	0.3783192	0.001	-1.8	90
Naphthalene	Avg	50.00	51.88	1.58424	1.643919	0.001	3.8	90
1,2,3-Trichlorobenzene	Avg	50.00	48.66	0.6918626	0.6732917	0.001	-2.7	90
Diethyl ether	Avg	50.00	0.000			0.001		90
Tetrahydrofuran	Avg	200.0	0.000			0.001		90
Dibromofluoromethane	Avg	50.00	47.23	0.2842674	0.2685014	0.001	-5.5	90
1,2-Dichloroethane-d4	Avg	50.00	44.84	0.2410236	0.2161583	0.001	-10.3	90
Toluene-d8	Avg	50.00	45.33	1.02089	0.9255149	0.001	-9.3	90
Bromofluorobenzene	Avg	50.00	47.35	0.7982333	0.7558987	0.001	-5.3	90

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

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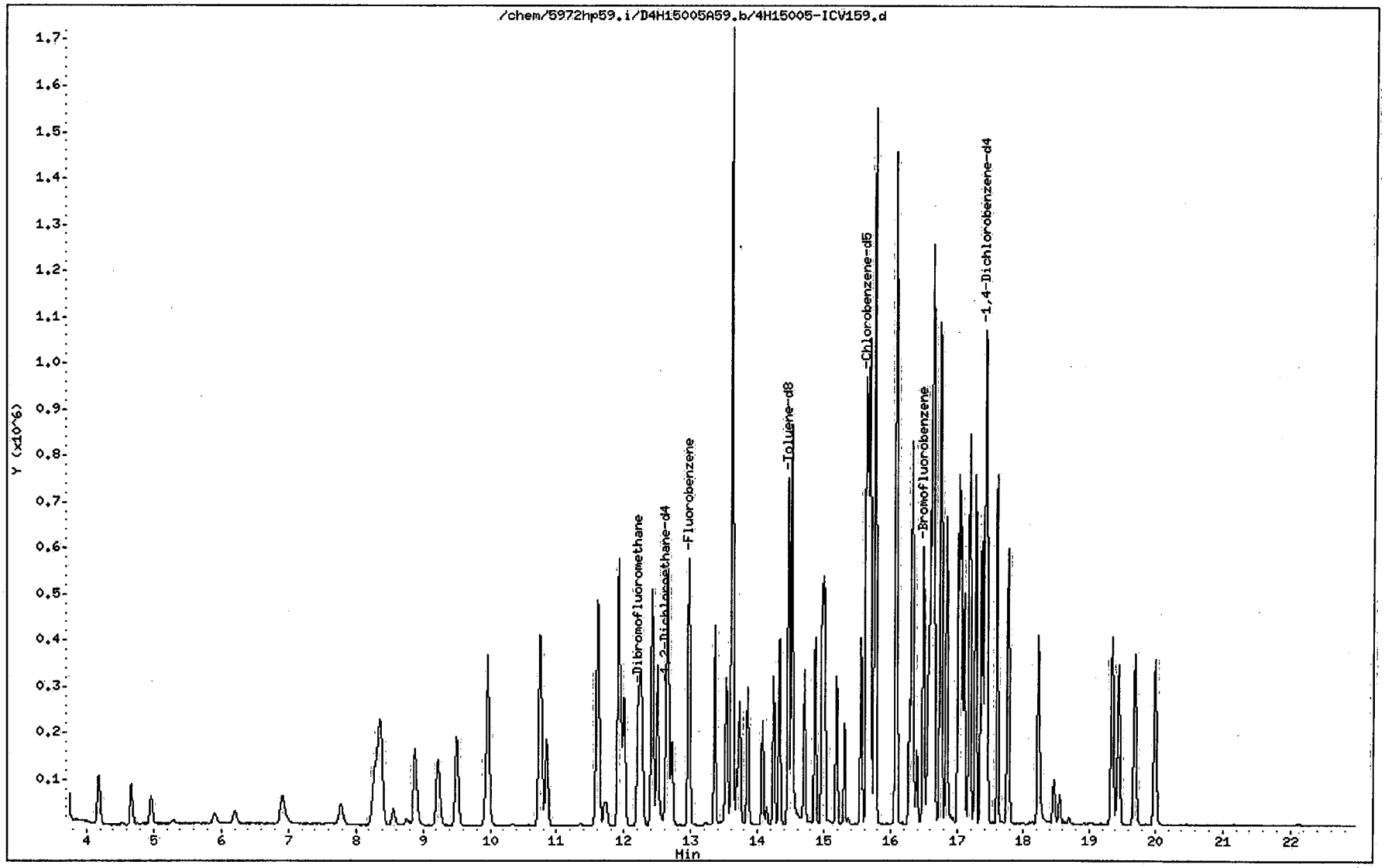
Data File: /chem/5972hp59.i/D4H15005A59.b/4H15005-ICV159.d
Date : 15-AUG-2014 12:59
Client ID: VSTD050GA
Sample Info: 4H15005-ICV1:JAO
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5972hp59.i
Operator: JAO
Column diameter: 0.32



8/18/2014

Data File: /chem/5972hp59.i/D4H15005A59.b/4H15005-ICV159.d
Report Date: 18-Aug-2014 15:40

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp59.i/D4H15005A59.b/4H15005-ICV159.d
Lab Smp Id: 4H15005-ICV1 Client Smp ID: VSTD050GA
Inj Date : 15-AUG-2014 12:59
Operator : JAO Inst ID: 5972hp59.i
Smp Info : 4H15005-ICV1:JAO
Misc Info : VSTD050GA
Comment :
Method : /chem/5972hp59.i/D4H15005A59.b/8260B_5ppbv5.m
Meth Date : 18-Aug-2014 15:40 ron Quant Type: ISTD
Cal Date : 11-AUG-2014 18:02 Cal File: 4H11002-CAL3R59.d
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DC.sub
Target Version: 3.50
Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	5.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	12.967	12.972	(1.000)	654585	250.000	
* 2 Chlorobenzene-d5	117	15.629	15.634	(1.000)	559723	250.000	
* 3 1,4-Dichlorobenzene-d4	152	17.414	17.419	(1.000)	291973	250.000	
$ 4 Dibromofluoromethane	113	12.207	12.212	(0.941)	175757	250.000	236.135
$ 5 1,2-Dichloroethane-d4	65	12.631	12.636	(0.974)	141494	250.000	224.209
$ 6 Toluene-d8	98	14.466	14.471	(0.926)	518032	250.000	226.644
$ 7 Bromofluorobenzene	95	16.497	16.502	(0.947)	220702	250.000	236.741
8 Dichlorodifluoromethane	85	4.180	4.185	(0.322)	175672	250.000	202.903
9 Chloromethane	50	4.673	4.678	(0.360)	141741	250.000	189.022
10 Vinyl Chloride	62	4.969	4.964	(0.383)	102851	250.000	227.393
11 Bromomethane	94	5.906	5.931	(0.455)	31284	250.000	151.350
12 Chloroethane	64	6.202	6.207	(0.478)	46422	250.000	245.031
13 Trichlorofluoromethane	101	8.342	8.347	(0.643)	176509	250.000	247.287
14 Acrolein	56	Compound Not Detected.					
15 1,1,1-trichloro-2,2,2-trifluo	117	8.283	8.288	(0.639)	63091	250.000	263.461

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Data File: /chem/5972hp59.i/D4H15005A59.b/4H15005-ICV159.d
Report Date: 18-Aug-2014 15:40

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
16 1,1,2-trichloro-1,2,2-trifluo	101	8.342	8.347	(0.643)	176509	250.000	247.287
17 1,1-Dichloroethene	96	8.381	8.386	(0.646)	126267	250.000	236.420
18 Acetone	43	8.569	8.564	(0.661)	87461	625.000	658.277
19 Iodomethane	142	8.766	8.781	(0.676)	35640	250.000	130.275
20 Carbon disulfide	76	8.884	8.889	(0.685)	458490	250.000	224.876
21 3-Chloropropene	76	9.229	9.224	(0.712)	62314	250.000	263.091
22 Acetonitrile	41	9.219	9.234	(0.711)	147223	250.000	217.788
23 Methyl acetate	43	9.249	9.254	(0.713)	89924	250.000	152.699
24 Methylene Chloride	84	9.505	9.510	(0.733)	160086	250.000	242.837
26 Methyl-tert-butyl ether	73	9.959	9.954	(0.768)	340836	250.000	252.950
28 trans-1,2-Dichloroethene	96	9.979	9.984	(0.770)	146205	250.000	242.856
29 trans-1,2-DCE (part of total)	96	9.979	9.984	(0.770)	146205	250.000	242.856
31 Isopropyl ether	45	10.758	10.763	(0.830)	421361	250.000	229.158
32 1,1-Dichloroethane	63	10.748	10.743	(0.829)	240056	250.000	225.445
33 Vinyl acetate	43	10.758	10.753	(0.830)	173839	250.000	207.833(M)
34 Chloroprene	53	10.856	10.861	(0.837)	157826	250.000	219.864
35 2-butanone	43	11.606	11.611	(0.895)	135873	625.000	573.246
36 2,2-Dichloropropane	77	11.596	11.601	(0.894)	166144	250.000	210.249
37 cis-1,2-Dichloroethene	96	11.616	11.621	(0.896)	172523	250.000	256.531
38 cis-1,2-DCE (part of total)	96	11.616	11.621	(0.896)	172523	250.000	256.531
39 Propionitrile	54	11.744	11.749	(0.906)	63392	12500.0	1011.73
40 Methacrylonitrile	41	11.912	11.916	(0.919)	354259	2500.00	1084.45
41 Bromochloromethane	128	11.931	11.936	(0.920)	77877	250.000	281.875
42 Chloroform	83	12.010	12.015	(0.926)	264180	250.000	247.307
43 1,1,1-Trichloroethane	97	12.237	12.242	(0.944)	198047	250.000	237.054
44 Cyclohexane	56	12.267	12.271	(0.946)	149902	250.000	241.134
46 1,1-dichloropropene	75	12.424	12.429	(0.958)	186036	250.000	243.951
47 Isobutyl alcohol	43	12.503	12.498	(0.964)	297547	12500.0	11287.7
48 Carbon Tetrachloride	117	12.414	12.419	(0.957)	187228	250.000	239.485
49 Benzene	78	12.661	12.666	(0.976)	592979	250.000	258.545
50 1,2-Dichloroethane	62	12.720	12.725	(0.981)	167654	250.000	235.713
51 Trichloroethene	130	13.351	13.356	(1.030)	173419	250.000	269.911
52 Methylcyclohexane	83	13.529	13.534	(1.043)	159978	250.000	265.667
53 Methylmethacrylate	100	13.627	13.632	(1.051)	326230	2500.00	1822.61
54 1,2-Dichloropropane	63	13.608	13.613	(1.049)	141977	250.000	237.488
55 1,4-dioxane	88	13.696	13.692	(1.056)	94954	12500.0	14475.4
56 Dibromomethane	174	13.736	13.741	(1.059)	111907	250.000	298.973
57 Bromodichloromethane	83	13.844	13.849	(1.068)	210640	250.000	246.772
58 cis-1,3-Dichloropropene	75	14.249	14.254	(1.099)	199304	250.000	214.817
59 4-Methyl-2-pentanone	43	14.328	14.332	(0.917)	313302	625.000	573.862
60 Toluene	92	14.525	14.530	(0.929)	362926	250.000	254.267
61 Ethylmethacrylate	99	14.870	14.687	(0.951)	88383	2500.00	742.563
62 trans-1,3-Dichloropropene	75	14.702	14.707	(0.941)	185323	250.000	231.252
63 1,1,2-Trichloroethane	97	14.870	14.865	(0.951)	139940	250.000	268.027
64 2-hexanone	43	14.998	15.003	(0.960)	176432	625.000	441.464
65 2-chloroethyl vinyl ether	63	14.071	14.076	(1.085)	94445	250.000	366.465
66 1,3-Dichloropropane	76	15.008	15.013	(0.960)	226776	250.000	259.611

8/18/2014

Data File: /chem/5972hp59.i/D4H15005A59.b/4H15005-ICV159.d
Report Date: 18-Aug-2014 15:40

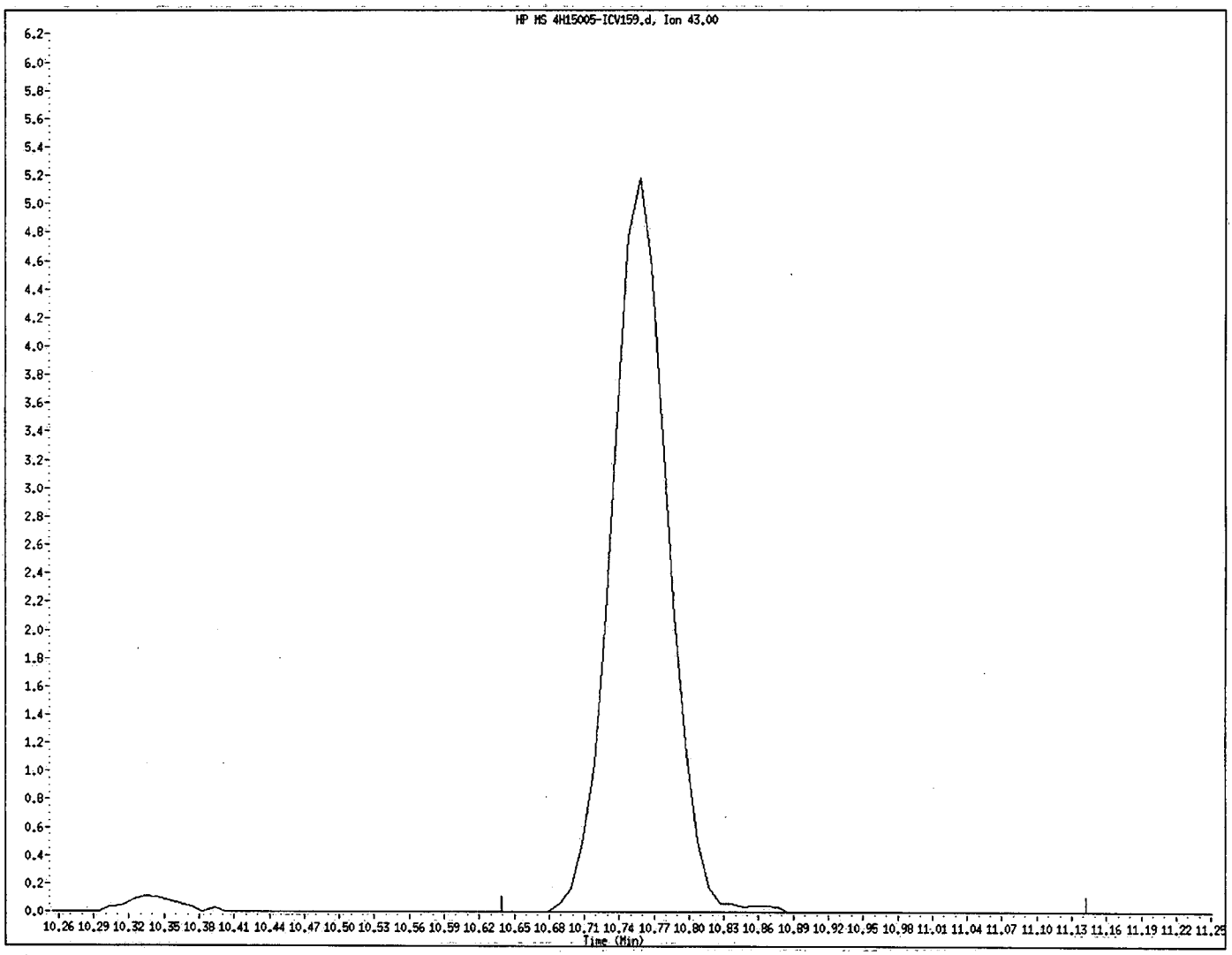
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
67 Tetrachloroethene	164	14.969	14.973	(0.958)	131184	250.000	263.628
68 Dibromochloromethane	129	15.185	15.190	(0.972)	188552	250.000	278.236
69 1,2-Dibromoethane	107	15.304	15.309	(0.979)	159328	250.000	271.780
70 1-Chlorohexane	55	15.550	15.555	(0.995)	90679	250.000	221.010
71 Chlorobenzene	112	15.659	15.664	(1.002)	439249	250.000	250.854
72 Ethylbenzene	106	15.688	15.693	(1.004)	203554	250.000	245.382
73 1,1,1,2-Tetrachloroethane	131	15.698	15.703	(1.004)	163706	250.000	264.595
74 m,p-Xylene	106	15.767	15.772	(1.009)	524330	500.000	498.274
75 m,p-Xylene (part of total)	106	15.767	15.772	(1.009)	524330	500.000	498.274
76 o-Xylene	106	16.073	16.088	(1.028)	267669	250.000	263.004
77 o-Xylene (part of total)	106	16.073	16.088	(1.028)	267669	250.000	263.004
78 Styrene	104	16.083	16.088	(1.029)	413384	250.000	243.762
79 Bromoform	173	16.290	16.295	(0.935)	124272	250.000	274.466
80 Isopropyl Benzene	105	16.329	16.334	(1.045)	664722	250.000	273.609
81 1,1,2,2-Tetrachloroethane	83	16.566	16.571	(0.951)	206043	250.000	246.923
82 trans-1,4-dichloro-2-butene	53	16.596	16.601	(1.062)	134176	1000.00	710.716
83 1,2,3-Trichloropropane	110	16.625	16.630	(1.064)	47342	250.000	254.380
84 Bromobenzene	156	16.655	16.660	(1.066)	194900	250.000	265.563
85 n-Propyl Benzene	91	16.625	16.640	(0.955)	794340	250.000	222.830
86 1,3,5-Trimethyl Benzene	105	16.744	16.748	(0.961)	546041	250.000	256.013
87 2-Chlorotoluene	91	16.763	16.768	(0.963)	518627	250.000	237.315
88 4-Chlorotoluene	91	16.842	16.847	(0.967)	465130	250.000	227.052
89 tert-Butyl Benzene	119	17.010	17.015	(0.977)	535490	250.000	258.125
90 1,2,4-Trimethyl Benzene	105	17.049	17.054	(0.979)	504689	250.000	228.863
91 Pentachloroethane	167	17.099	17.103	(0.982)	115810	250.000	267.887
92 sec-Butyl Benzene	105	17.177	17.192	(0.986)	763728	250.000	267.971
93 p-Isopropyl Toluene	119	17.266	17.271	(0.991)	571507	250.000	248.259
94 1,3-Dichlorobenzene	146	17.365	17.370	(0.997)	343596	250.000	241.025
95 1,4-Dichlorobenzene	146	17.434	17.439	(1.001)	374164	250.000	255.851
96 n-Butyl Benzene	91	17.611	17.616	(1.011)	543299	250.000	241.635
97 1,2-Dichlorobenzene	146	17.769	17.774	(1.020)	342850	250.000	261.259
98 1,2-Dibromo-3-Chloropropane	157	18.469	18.474	(1.061)	41283	250.000	286.941
99 1,2,4-Trichlorobenzene	180	19.347	19.362	(1.111)	221137	250.000	249.926
100 Hexachlorobutadiene	225	19.445	19.450	(1.117)	110459	250.000	245.424
101 Naphthalene	128	19.692	19.697	(1.131)	479980	250.000	259.418
102 1,2,3-Trichlorobenzene	180	19.998	20.003	(1.148)	196583	250.000	243.290
M 103 1,2-Dichloroethene (total)	96				318728	500.000	500.144
M 104 Xylene (total)	106				791999	750.000	761.278

QC Flag Legend

M - Compound response manually integrated.

8/18/2014

Vinyl acetate CAS Number 108-05-4 Area = 173839 Manually integrated



File name: /chem/5972hp59.i/D4H15005A59.b/4H15005-ICV159.d
Client ID: VSTD050GA
Instrument ID: 5972hp59.i
Injection Date and Time: 15-AUG-2014 12:59
Retention Time: 10.76
Operator ID: JAO

8/18/2014

N. BFB / DFTPP or FC-43 Data

For each 12-hour period, per instrument utilized, include:

Bar Graph Spectrum and Tabulated Relative Abundances

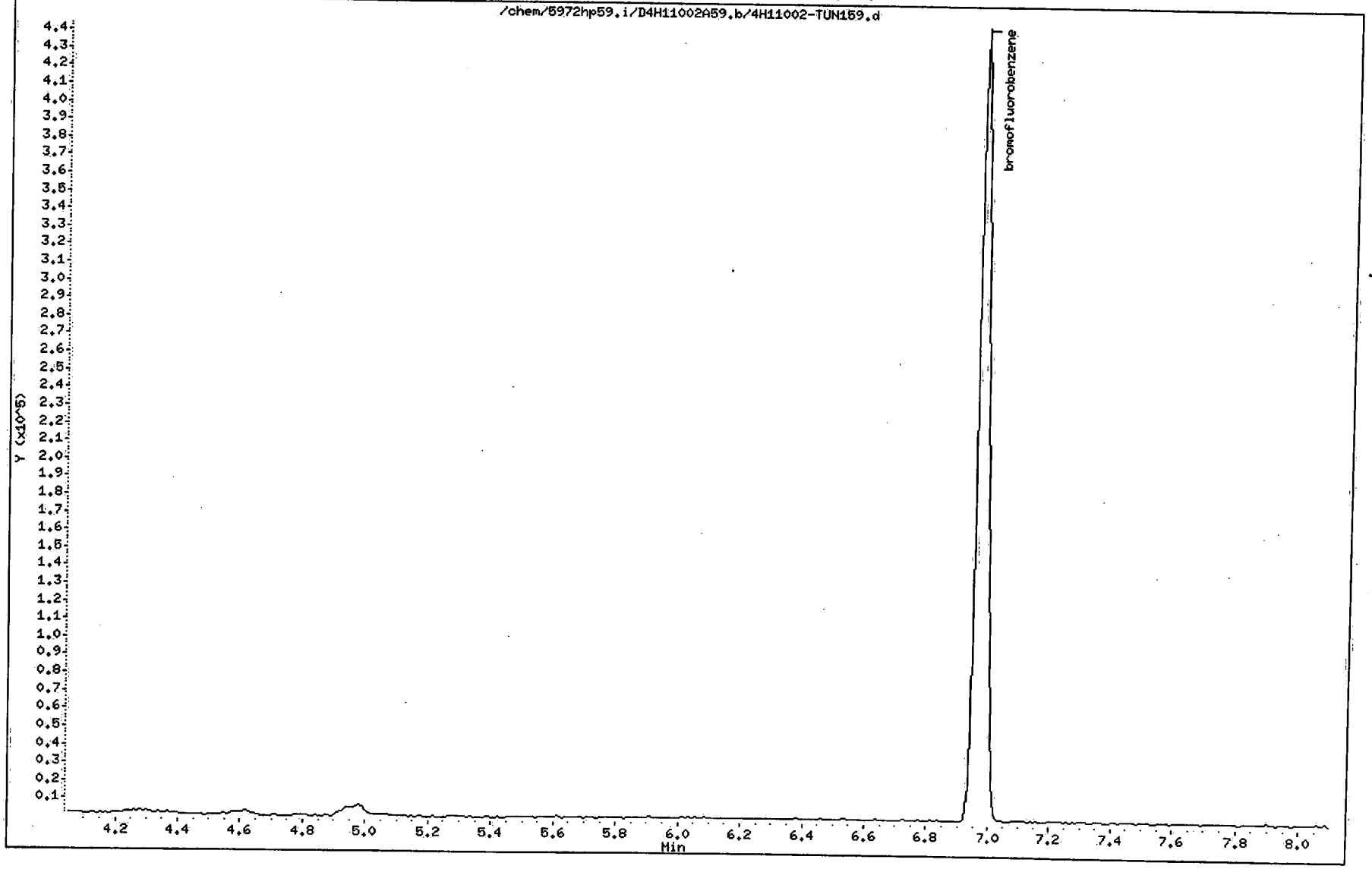
Mass Listing

RIC

PFTBA (Perfluoro-tri-n-butylamine) scan, showing the relative abundance of the key ions and the Instrument Operating Conditions

Data File: /chem/5972hp59.i/D4H11002A59.b/4H11002-TUN159.d
Date : 11-AUG-2014 13:58
Client ID: BFBFT
Sample Info: 4H11002-TUN1:JAO
Volume Injected (uL): 2.0
Column phase: SPB-624

Instrument: 5972hp59.i
Operator: JAO
Column diameter: 0.32



8/12/2014

Data File: /chem/5972hp59.i/D4H11002A59.b/4H11002-TUN159.d

Date : 11-AUG-2014 13:58

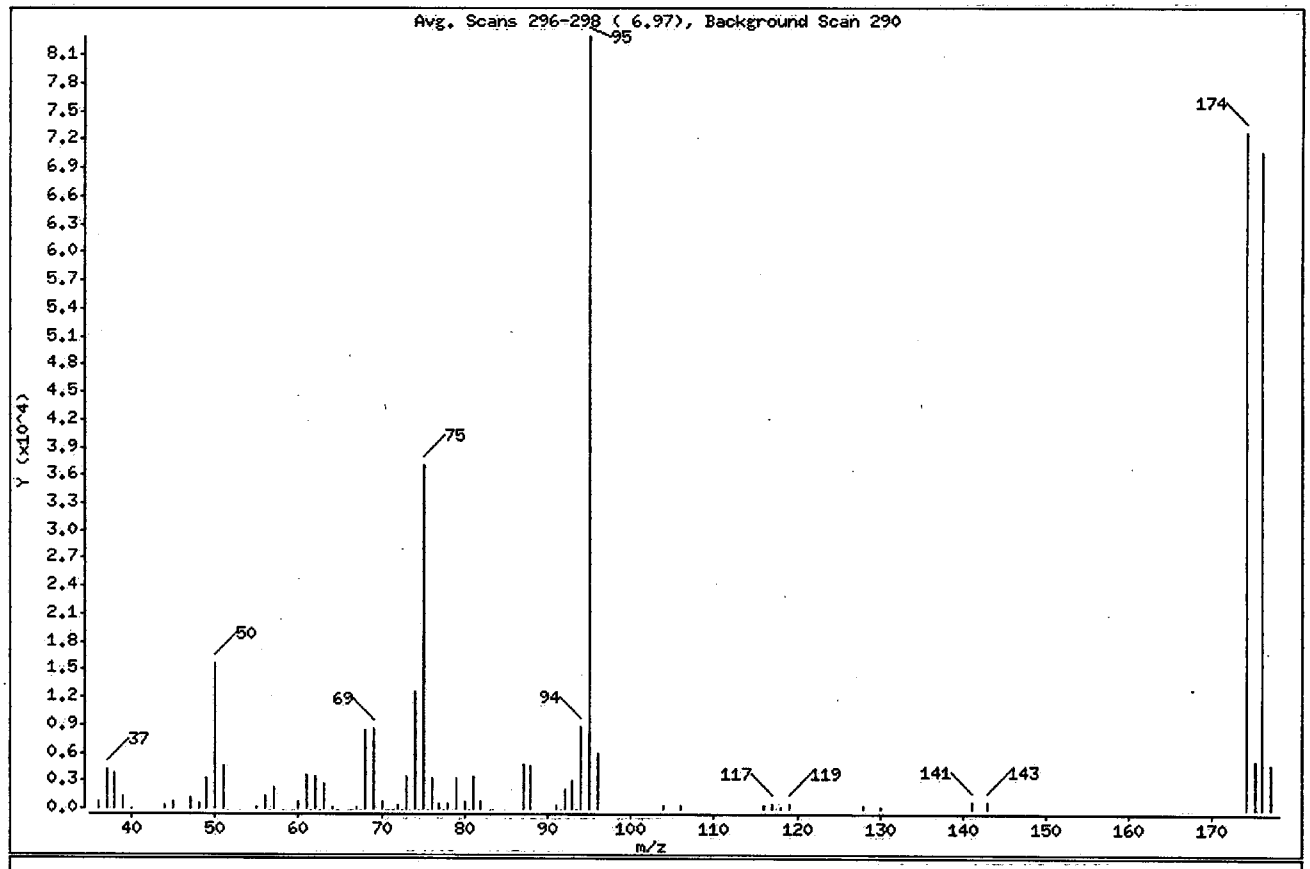
Client ID: BFBFT | Instrument: 5972hp59.i

Sample Info: 4H11002-TUN1:JAO

Volume Injected (uL): 2.0 | Operator: JAO

Column phase: SPB-624 | Column diameter: 0.32

1 bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.77
75	30.00 - 60.00% of mass 95	44.61
96	5.00 - 9.00% of mass 95	7.05
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	87.53
175	5.00 - 9.00% of mass 174	6.31 (7.21)
176	95.00 - 101.00% of mass 174	84.99 (97.10)
177	5.00 - 9.00% of mass 176	5.72 (6.73)

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Data File: /chem/5972hp59.i/D4H11002A59.b/4H11002-TUN159.d

Date : 11-AUG-2014 13:58

Client ID: BFBFT | Instrument: 5972hp59.i

Sample Info: 4H11002-TUN1:JAO

Volume Injected (uL): 2.0 | Operator: JAO

Column phase: SPB-624 | Column diameter: 0.32

Data File: 4H11002-TUN159.d

Spectrum: Avg. Scans 296-298 (6.97), Background Scan 290

Location of Maximum: 95.00

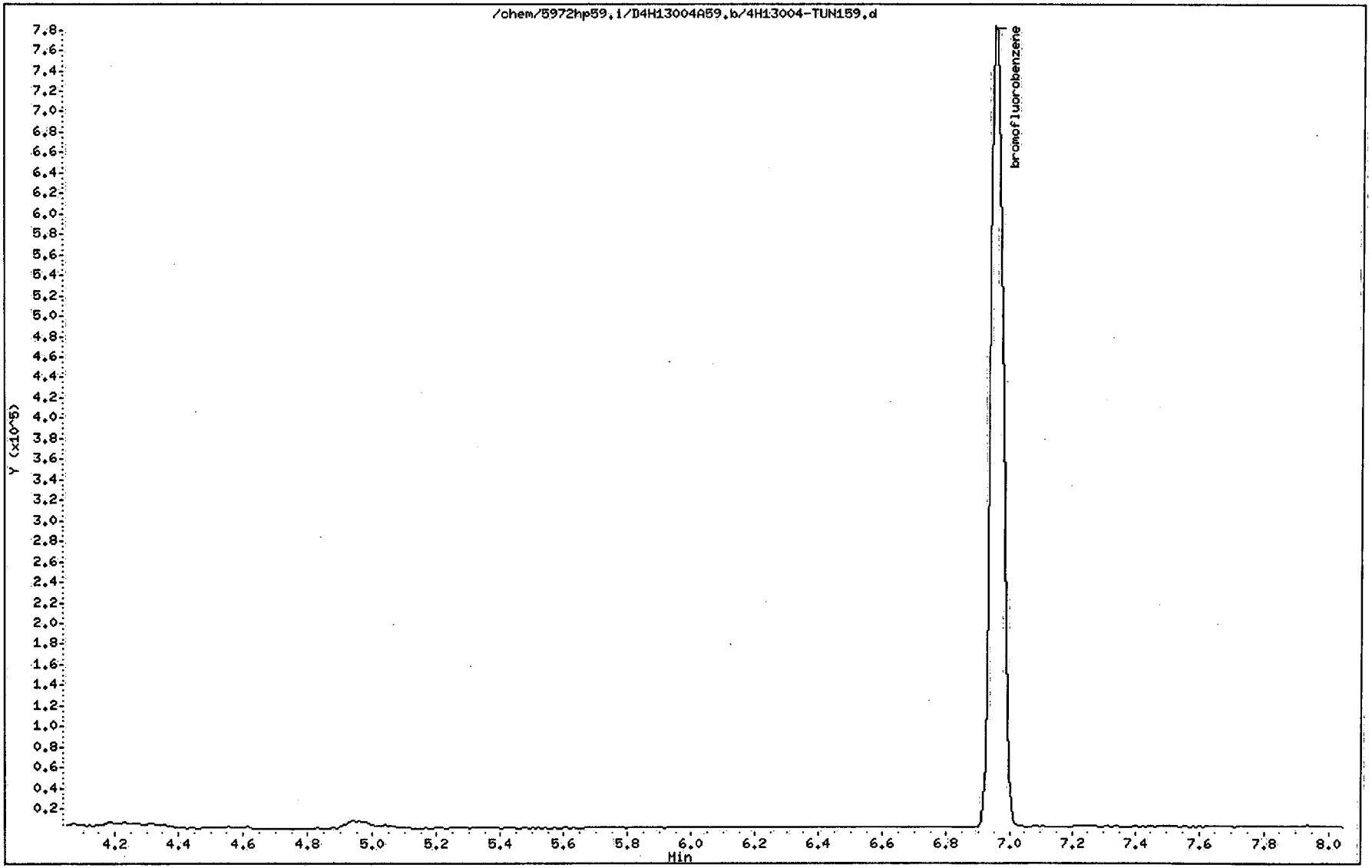
Number of points: 57

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	817	60.00	789	78.00	516	116.00	363
37.00	4179	61.00	3651	79.00	3302	117.00	529
38.00	3744	62.00	3450	80.00	800	118.00	245
39.00	1366	63.00	2650	81.00	3358	119.00	482
40.00	11	64.00	114	82.00	709	128.00	373
44.00	473	67.00	112	87.00	4710	130.00	235
45.00	828	68.00	8328	88.00	4601	141.00	743
47.00	1204	69.00	8507	91.00	405	143.00	799
48.00	511	70.00	673	92.00	2071	174.00	72616
49.00	3237	72.00	388	93.00	3092	175.00	5236
50.00	15575	73.00	3433	94.00	8701	176.00	70512
51.00	4536	74.00	12588	95.00	82960	177.00	4746
55.00	103	75.00	37008	96.00	5847		
56.00	1310	76.00	3203	104.00	432		
57.00	2236	77.00	575	106.00	402		

8/12/2014

Data File: /chem/5972hp59.i/D4H13004A59.b/4H13004-TUN159.d
Date : 13-AUG-2014 13:14
Client ID: BFBFW
Sample Info: 4H13004-TUN1:JAO
Volume Injected (uL): 2.0
Column phase: SPB-624

Instrument: 5972hp59.i
Operator: JAO
Column diameter: 0.32



Ralda Hani 8/14/2014

Data File: /chem/5972hp59.i/D4H13004A59.b/4H13004-TUN159.d

Date : 13-AUG-2014 13:14

Client ID: BFBFW

Instrument: 5972hp59.i

Sample Info: 4H13004-TUN1:JAO

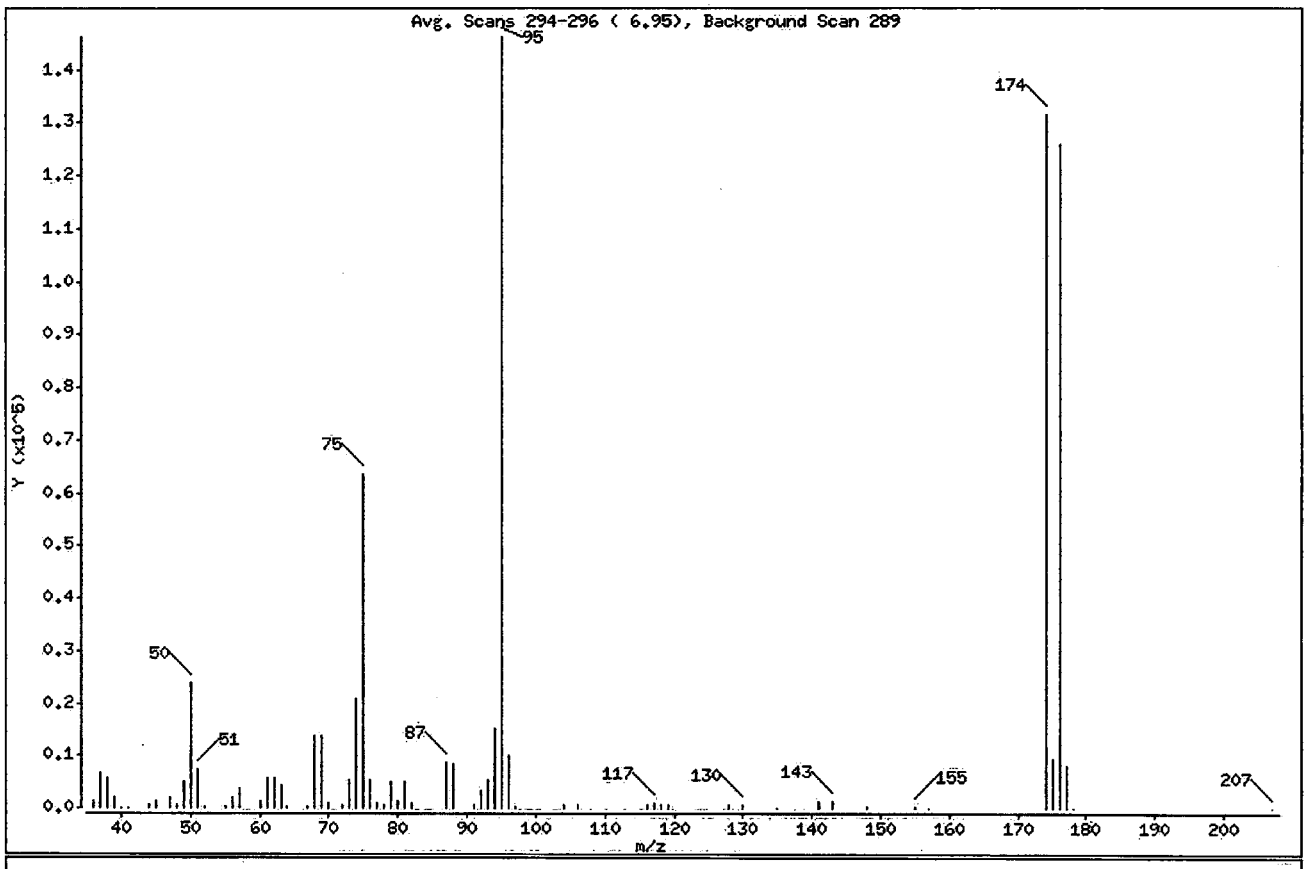
Volume Injected (uL): 2.0

Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

1 bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.22
75	30.00 - 60.00% of mass 95	43.36
96	5.00 - 9.00% of mass 95	6.92
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	89.80
175	5.00 - 9.00% of mass 174	6.47 (7.21)
176	95.00 - 101.00% of mass 174	86.07 (95.84)
177	5.00 - 9.00% of mass 176	5.56 (6.46)

Roldw Ha 8/14/2014

Data File: /chem/5972hp59.i/D4H13004A59.b/4H13004-TUN159.d

Date : 13-AUG-2014 13:14

Client ID: BFBFW

Instrument: 5972hp59.i

Sample Info: 4H13004-TUN1:JAO

Volume Injected (uL): 2.0

Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

Data File: 4H13004-TUN159.d

Spectrum: Avg. Scans 294-296 (6.95), Background Scan 289

Location of Maximum: 95.00

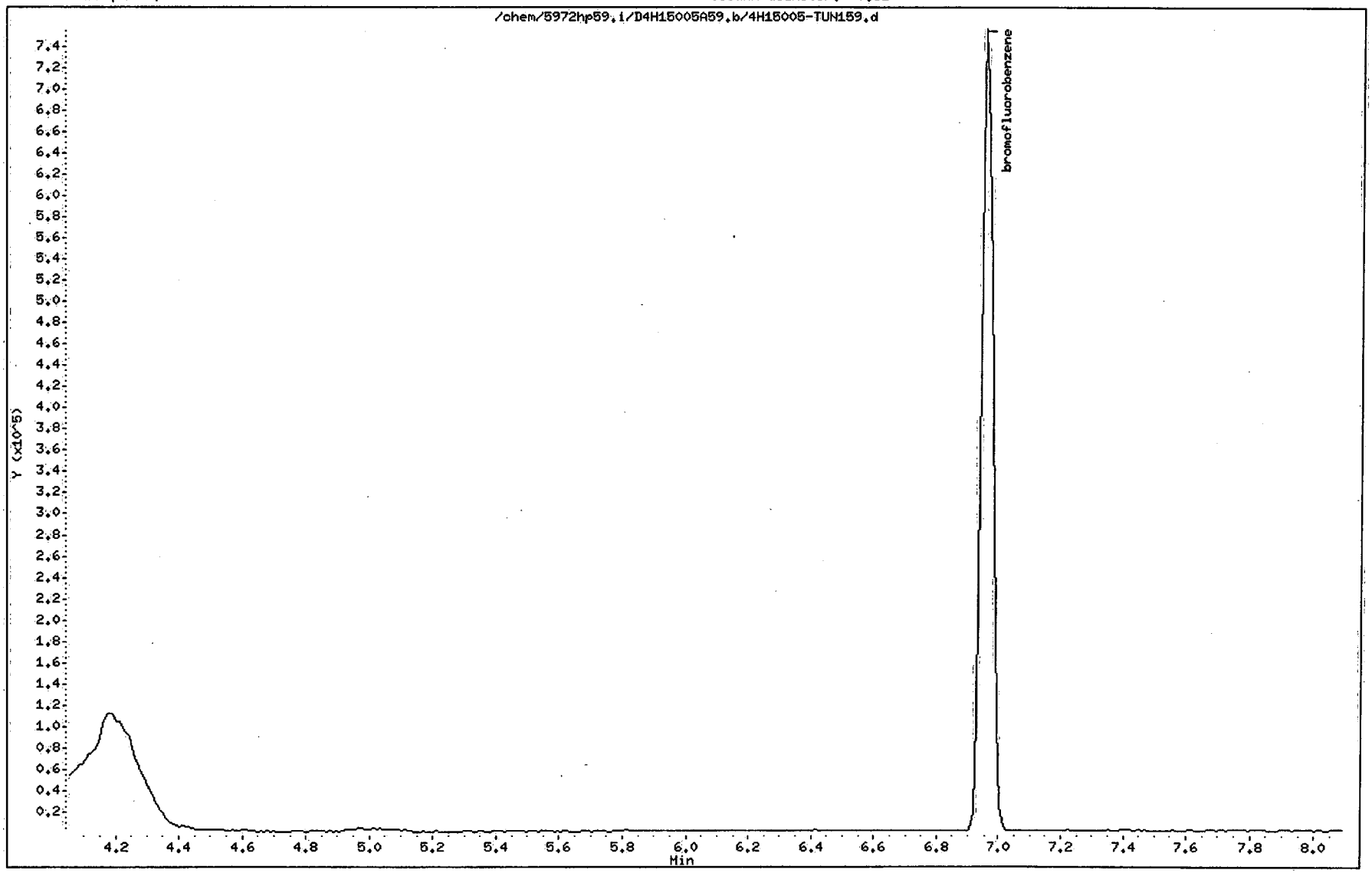
Number of points: 66

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1229	60.00	1179	80.00	1209	119.00	746
37.00	6589	61.00	5725	81.00	5166	128.00	568
38.00	5643	62.00	5624	82.00	1087	130.00	595
39.00	2137	63.00	4227	87.00	8832	135.00	114
40.00	85	64.00	273	88.00	8537	141.00	1262
41.00	113	67.00	457	91.00	586	143.00	1273
44.00	711	68.00	13841	92.00	3416	148.00	401
45.00	1341	69.00	13837	93.00	5415	155.00	242
47.00	1888	70.00	1010	94.00	15104	157.00	100
48.00	783	72.00	769	95.00	146240	174.00	131328
49.00	5149	73.00	5539	96.00	10123	175.00	9467
50.00	23712	74.00	20768	97.00	212	176.00	125872
51.00	7359	75.00	63408	104.00	633	177.00	8134
52.00	236	76.00	5437	106.00	634	178.00	106
55.00	394	77.00	1051	116.00	508	207.00	46
56.00	1998	78.00	818	117.00	903		
57.00	3625	79.00	5094	118.00	565		

Roldw Hani 8/14/2014

Data File: /chem/5972hp59.i/D4H15005A59.b/4H15005-TUN159.d
Date : 15-AUG-2014 12:33
Client ID: BFBGA
Sample Info: 4H15005-TUN1:JAO
Volume Injected (uL): 2.0
Column phase: SPB-624

Instrument: 5972hp59.i
Operator: JAO
Column diameter: 0.32



Roldan Ham 8/18/2014

Data File: /chem/5972hp59.i/D4H15005A59.b/4H15005-TUN159.d

Date : 15-AUG-2014 12:33

Client ID: BFBGA

Instrument: 5972hp59.i

Sample Info: 4H15005-TUN1:JAO

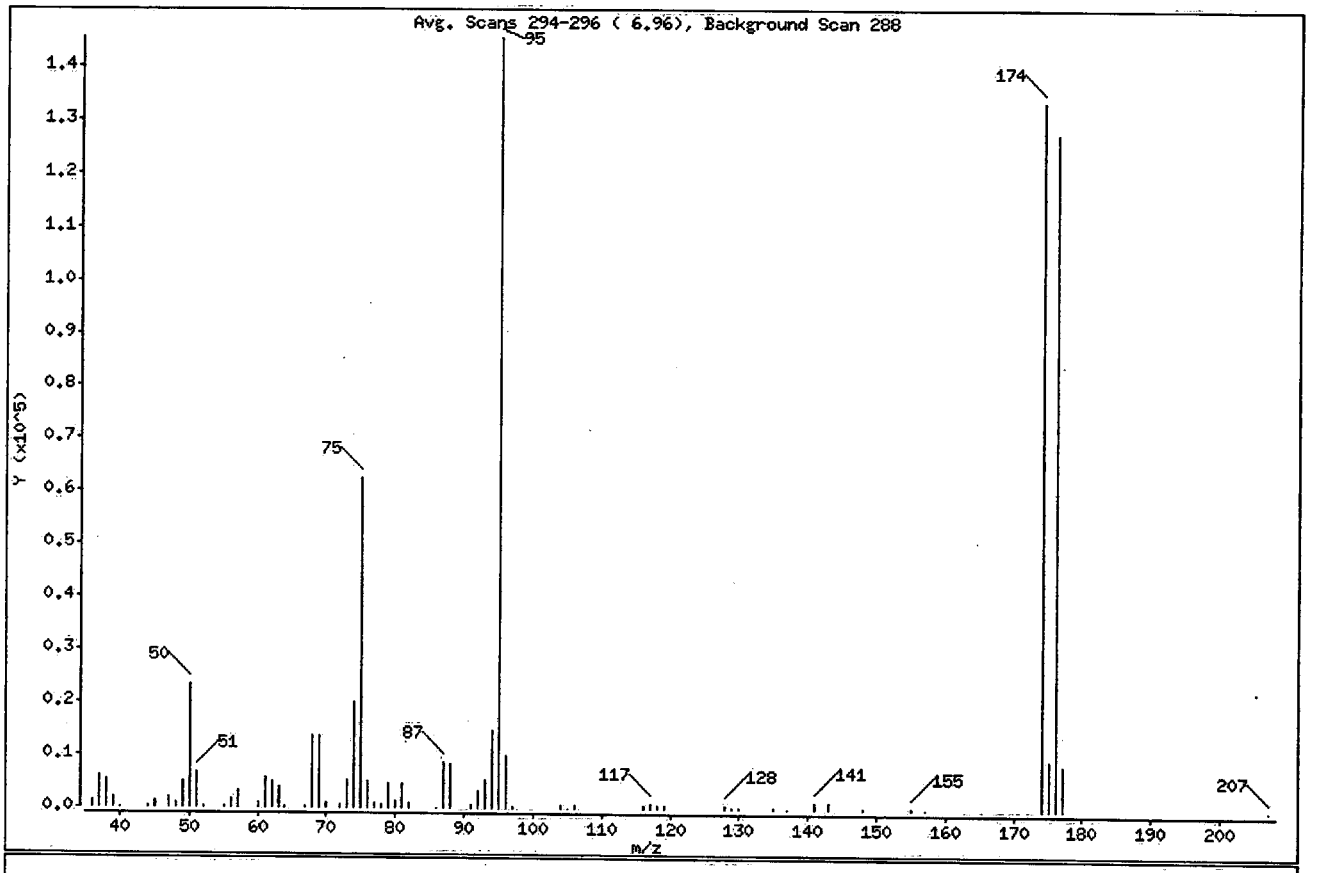
Volume Injected (uL): 2.0

Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

1 bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.09
75	30.00 - 60.00% of mass 95	42.97
96	5.00 - 9.00% of mass 95	6.78
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	91.62
175	5.00 - 9.00% of mass 174	6.52 (7.12)
176	95.00 - 101.00% of mass 174	87.54 (95.55)
177	5.00 - 9.00% of mass 176	5.75 (6.56)

Roldan Hani 8/18/2014

Data File: /chem/5972hp59.i/D4H15005A59.b/4H15005-TUN159.d

Date : 15-AUG-2014 12:33

Client ID: BFBGA | Instrument: 5972hp59.i

Sample Info: 4H15005-TUN1:JAO

Volume Injected (uL): 2.0 | Operator: JAO

Column phase: SPB-624 | Column diameter: 0.32

Data File: 4H15005-TUN159.d
Spectrum: Avg. Scans 294-296 (6.96), Background Scan 288
Location of Maximum: 95.00
Number of points: 68

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1258	62.00	5041	86.00	115	129.00	212
37.00	6162	63.00	3974	87.00	8621	130.00	483
38.00	5355	64.00	444	88.00	8452	135.00	223
39.00	2147	67.00	316	91.00	544	137.00	112
40.00	49	68.00	13717	92.00	3246	141.00	1340
44.00	472	69.00	13532	93.00	5203	143.00	1227
45.00	1188	70.00	1014	94.00	14737	148.00	250
47.00	1993	72.00	816	95.00	145280	155.00	364
48.00	838	73.00	5489	96.00	9858	157.00	109
49.00	5105	74.00	20200	97.00	243	174.00	133120
50.00	23376	75.00	62440	104.00	678	175.00	9474
51.00	6828	76.00	5147	105.00	122	176.00	127192
52.00	221	77.00	1034	106.00	584	177.00	8348
55.00	449	78.00	811	116.00	558	207.00	48
56.00	1826	79.00	4636	117.00	872		
57.00	3458	80.00	1289	118.00	527		
60.00	1121	81.00	4784	119.00	707		
61.00	5660	82.00	1010	128.00	577		

8/18/2014

O. Blank Data

Arranged by type of blank (method or instrument where applicable) in chronological order, by instrument.

Tabulated Results and TICs shall be included. (ANALYSIS DATA SHEET)

RIC and Quantitation reports.

Target compound spectra with lab-generated standard Spectra and GC/MS library search spectra for TICs.

ANALYSIS DATA SHEET

SW 8260B

VBLKFX

Client: WESTON SOLUTIONS SDG: 1408028 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Matrix: Soil Med Extraction: EPA 5030B/5035A File ID: 4081312-BLK1R59.d QC Type: Blank

Initial/Final: 5g / 5mL Lab ID: 4081312-BLK1 Column ID: SPB-624

Dilution: 50 pH: Prepared: 08/13/14 15:37

% Moisture: NA Analyzed: 08/13/14 15:37

Batch: 4081312 Sequence: 4H13004 Calibration: 4081203 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC.(ug/kg wet)	MDL	RL	Q
75-71-8	Dichlorodifluoromethane		22	250	U
74-87-3	Chloromethane		16	250	U
75-01-4	Vinyl chloride		21	250	U
74-83-9	Bromomethane		29	250	U
75-00-3	Chloroethane		36	250	U
75-69-4	Trichlorofluoromethane		15	250	U
75-35-4	1,1-Dichloroethene		55	250	U
67-64-1	Acetone		250	630	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		26	250	U
75-15-0	Carbon disulfide		7.0	250	U
79-20-9	Methyl acetate		70	250	U
75-09-2	Methylene chloride	37	25	250	J
156-60-5	trans-1,2-Dichloroethene		50	250	U
1634-04-4	Methyl tert-butyl ether		20	250	U
75-34-3	1,1-Dichloroethane		24	250	U
156-59-2	cis-1,2-Dichloroethene		21	250	U
78-93-3	2-Butanone		65	630	U
67-66-3	Chloroform		16	250	U
71-55-6	1,1,1-Trichloroethane		25	250	U
110-82-7	Cyclohexane		16	250	U
56-23-5	Carbon tetrachloride		23	250	U
107-06-2	1,2-Dichloroethane		14	250	U
71-43-2	Benzene		16	250	U
79-01-6	Trichloroethene		16	250	U
108-87-2	Methylcyclohexane		14	250	U
78-87-5	1,2-Dichloropropane		32	250	U
75-27-4	Bromodichloromethane		19	250	U
10061-01-5	cis-1,3-Dichloropropene		20	250	U
108-10-1	4-Methyl-2-pentanone		65	630	U
108-88-3	Toluene		17	250	U
10061-02-6	trans-1,3-Dichloropropene		21	250	U
79-00-5	1,1,2-Trichloroethane		36	250	U
127-18-4	Tetrachloroethene		80	250	U
591-78-6	2-Hexanone		50	630	U

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ANALYSIS DATA SHEET

SW 8260B

VBLKFX

Client: WESTON SOLUTIONS SDG: 1408028 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Matrix: Soil Med Extraction: EPA 5030B/5035A File ID: 4081312-BLK1R59.d QC Type: Blank

Initial/Final: 5g / 5mL Lab ID: 4081312-BLK1 Column ID: SPB-624

Dilution: 50 pH: Prepared: 08/13/14 15:37

% Moisture: NA Analyzed: 08/13/14 15:37

Batch: 4081312 Sequence: 4H13004 Calibration: 4081203 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC.(ug/kg wet)	MDL	RL	Q
124-48-1	Dibromochloromethane		28	250	U
106-93-4	1,2-Dibromoethane		11	250	U
108-90-7	Chlorobenzene		13	250	U
100-41-4	Ethylbenzene		29	250	U
179601-23-1	m,p-Xylene		7.0	500	U
95-47-6	o-Xylene		19	250	U
100-42-5	Styrene		4.0	250	U
75-25-2	Bromoform		55	250	U
98-82-8	Isopropylbenzene		11	250	U
79-34-5	1,1,2,2-Tetrachloroethane		19	250	U
541-73-1	1,3-Dichlorobenzene		14	250	U
106-46-7	1,4-Dichlorobenzene		11	250	U
95-50-1	1,2-Dichlorobenzene		18	250	U
96-12-8	1,2-Dibromo-3-chloropropane		33	250	U
120-82-1	1,2,4-Trichlorobenzene		18	250	U
1330-20-7	Xylenes (total)		7.0	250	U

SURROGATE RECOVERY RESULTS	ADDED (ug/kg wet)	CONC (ug/kg wet)	% REC	QC LIMITS	Q
Dibromofluoromethane	2500	2379	95	71 - 141	D
1,2-Dichloroethane-d4	2500	2407	96	70 - 139	D
Toluene-d8	2500	2430	97	72 - 123	D
Bromofluorobenzene	2500	2614	105	65 - 131	D

CAS NO.	TICS	CONC.(ug/kg wet)	Response	R.T.	% Match	Q

Environmental Testing Laboratories CompuChem A Division Of Liberty Analytical Corp.

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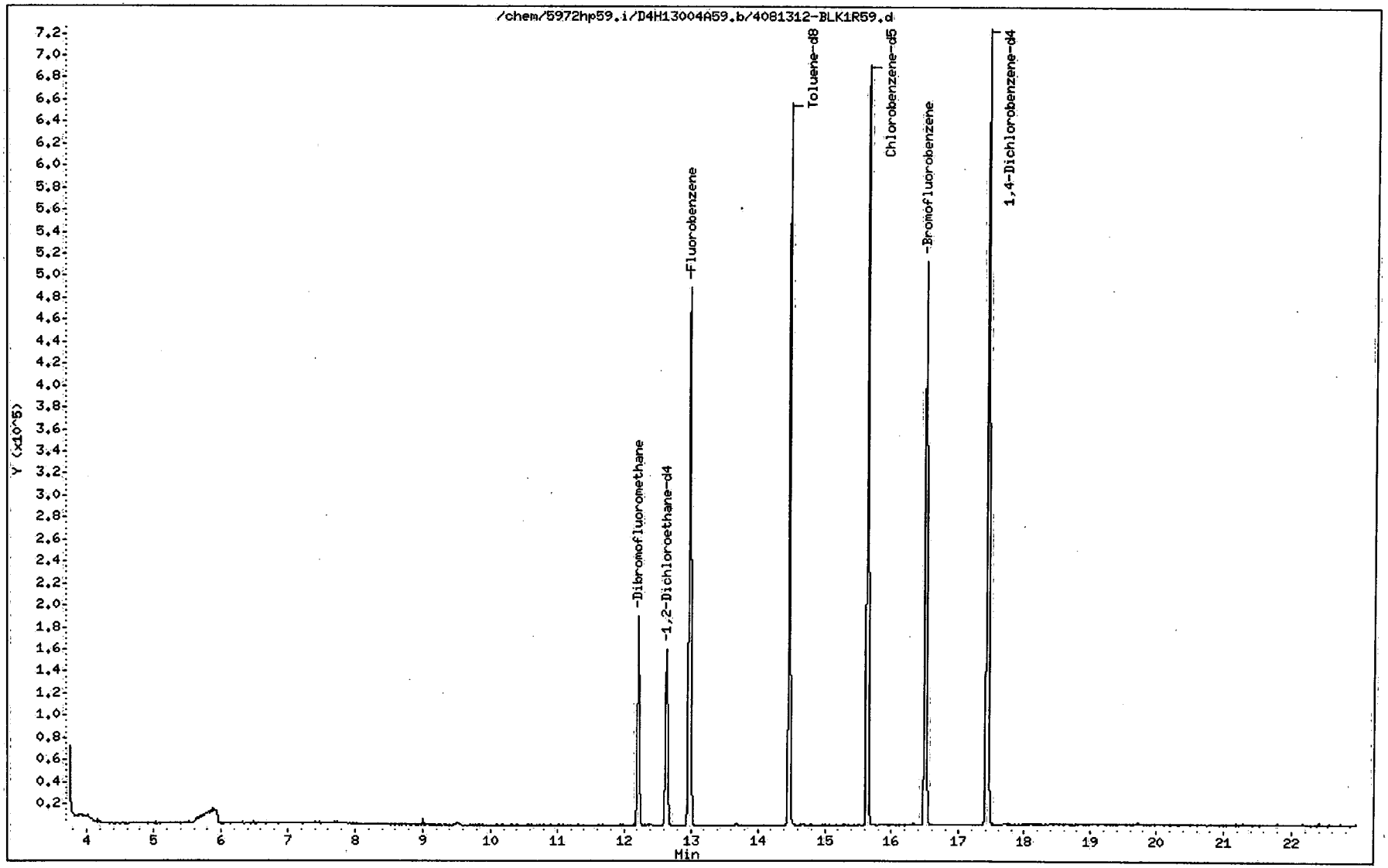
Data File: /chem/5972hp59.i/D4H13004A59.b/4081312-BLK1R59.d
Date : 13-AUG-2014 15:37
Client ID: VBLKFX
Sample Info: 4081312-BLK1:JAO

Instrument: 5972hp59.i

Operator: JAO

Column phase: SPB-624

Column diameter: 0.32



8/14/2014

Data File: /chem/5972hp59.i/D4H13004A59.b/4081312-BLK1R59.d
Report Date: 14-Aug-2014 13:26

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp59.i/D4H13004A59.b/4081312-BLK1R59.d
Lab Smp Id: 4081312-BLK1 Client Smp ID: VBLKFX
Inj Date : 13-AUG-2014 15:37
Operator : JAO Inst ID: 5972hp59.i
Smp Info : 4081312-BLK1:JAO
Misc Info : VBLKFX
Comment :
Method : /chem/5972hp59.i/D4H13004A59.b/8260B_5ppbv5.m
Meth Date : 14-Aug-2014 13:26 ron Quant Type: ISTD
Cal Date : 11-AUG-2014 18:02 Cal File: 4H11002-CAL3R59.d
Als bottle: 7 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TCL4.sub
Target Version: 3.50
Processing Host: dante

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

Name	Value	Description
DF	1.00000	Dilution Factor
Ws	5.00000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Vt	5000.00000	
Va	100.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
* 1 Fluorobenzene	96	12.980	12.972	(1.000)	538963	250.000	
* 2 Chlorobenzene-d5	117	15.642	15.634	(1.000)	474554	250.000	
* 3 1,4-Dichlorobenzene-d4	152	17.417	17.419	(1.000)	242303	250.000	
$ 4 Dibromofluoromethane	113	12.211	12.212	(0.941)	145810	237.926	2379.26
$ 5 1,2-Dichloroethane-d4	65	12.635	12.636	(0.973)	125092	240.742	2407.42
$ 6 Toluene-d8	98	14.469	14.471	(0.925)	470961	243.030	2430.30
$ 7 Bromofluorobenzene	95	16.500	16.502	(0.947)	202247	261.417	2614.17
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					

8/14/2014

Data File: /chem/5972hp59.i/D4H13004A59.b/4081312-BLK1R59.d
Report Date: 14-Aug-2014 13:26

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
17 1,1-Dichloroethene	96	Compound Not Detected.					
18 Acetone	43	Compound Not Detected.					
16 1,1,2-trichloro-1,2,2-trifluo	101	Compound Not Detected.					
20 Carbon disulfide	76	Compound Not Detected.					
23 Methyl acetate	43	Compound Not Detected.					
24 Methylene Chloride	84	9.509	9.510	(0.733)	2035	3.74915	37.4915(a)
28 trans-1,2-Dichloroethene	96	Compound Not Detected.					
26 Methyl-tert-butyl ether	73	Compound Not Detected.					
32 1,1-Dichloroethane	63	Compound Not Detected.					
37 cis-1,2-Dichloroethene	96	Compound Not Detected.					
35 2-butanone	43	Compound Not Detected.					
42 Chloroform	83	Compound Not Detected.					
43 1,1,1-Trichloroethane	97	Compound Not Detected.					
44 Cyclohexane	56	Compound Not Detected.					
48 Carbon Tetrachloride	117	Compound Not Detected.					
50 1,2-Dichloroethane	62	Compound Not Detected.					
49 Benzene	78	Compound Not Detected.					
51 Trichloroethene	130	Compound Not Detected.					
52 Methylcyclohexane	83	Compound Not Detected.					
54 1,2-Dichloropropane	63	Compound Not Detected.					
57 Bromodichloromethane	83	Compound Not Detected.					
58 cis-1,3-Dichloropropene	75	Compound Not Detected.					
59 4-Methyl-2-pentanone	43	Compound Not Detected.					
60 Toluene	92	Compound Not Detected.					
62 trans-1,3-Dichloropropene	75	Compound Not Detected.					
63 1,1,2-Trichloroethane	97	Compound Not Detected.					
67 Tetrachloroethene	164	Compound Not Detected.					
64 2-hexanone	43	Compound Not Detected.					
68 Dibromochloromethane	129	Compound Not Detected.					
69 1,2-Dibromoethane	107	Compound Not Detected.					
71 Chlorobenzene	112	Compound Not Detected.					
72 Ethylbenzene	106	Compound Not Detected.					
75 m,p-Xylene (part of total)	106	Compound Not Detected.					
77 o-Xylene (part of total)	106	Compound Not Detected.					
78 Styrene	104	Compound Not Detected.					
79 Bromoform	173	Compound Not Detected.					
80 Isopropyl Benzene	105	Compound Not Detected.					
81 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
94 1,3-Dichlorobenzene	146	Compound Not Detected.					
95 1,4-Dichlorobenzene	146	Compound Not Detected.					
97 1,2-Dichlorobenzene	146	Compound Not Detected.					
98 1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.					
99 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
M 104 Xylene (total)	106	Compound Not Detected.					

Roldan Ha 8/14/2014

Data File: /chem/5972hp59.i/D4H13004A59.b/4081312-BLK1R59.d
Report Date: 14-Aug-2014 13:26

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

8/14/2014

Data File: /chem/5972hp59.i/D4H13004A59.b/4081312-BLK1R59.d
Report Date: 14-Aug-2014 13:26

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp59.i/D4H13004A59.b/4081312-BLK1R59.d
Lab Smp Id: 4081312-BLK1 Client Smp ID: VBLKFX
Inj Date : 13-AUG-2014 15:37
Operator : JAO Inst ID: 5972hp59.i
Smp Info : 4081312-BLK1:JAO
Misc Info : VBLKFX
Comment :
Method : /chem/5972hp59.i/D4H13004A59.b/8260B_5ppbv5.m
Meth Date : 14-Aug-2014 13:26 ron Quant Type: ISTD
Cal Date : 11-AUG-2014 18:02 Cal File: 4H11002-CAL3R59.d
Als bottle: 7 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TCL4.sub
Target Version: 3.50
Processing Host: dante

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

8/14/2014

Data File: /chem/5972hp59.i/D4H13004A59.b/4081312-BLK1R59.d

Date : 13-AUG-2014 15:37

Client ID: VBLKFX

Instrument: 5972hp59.i

Sample Info: 4081312-BLK1:JAO

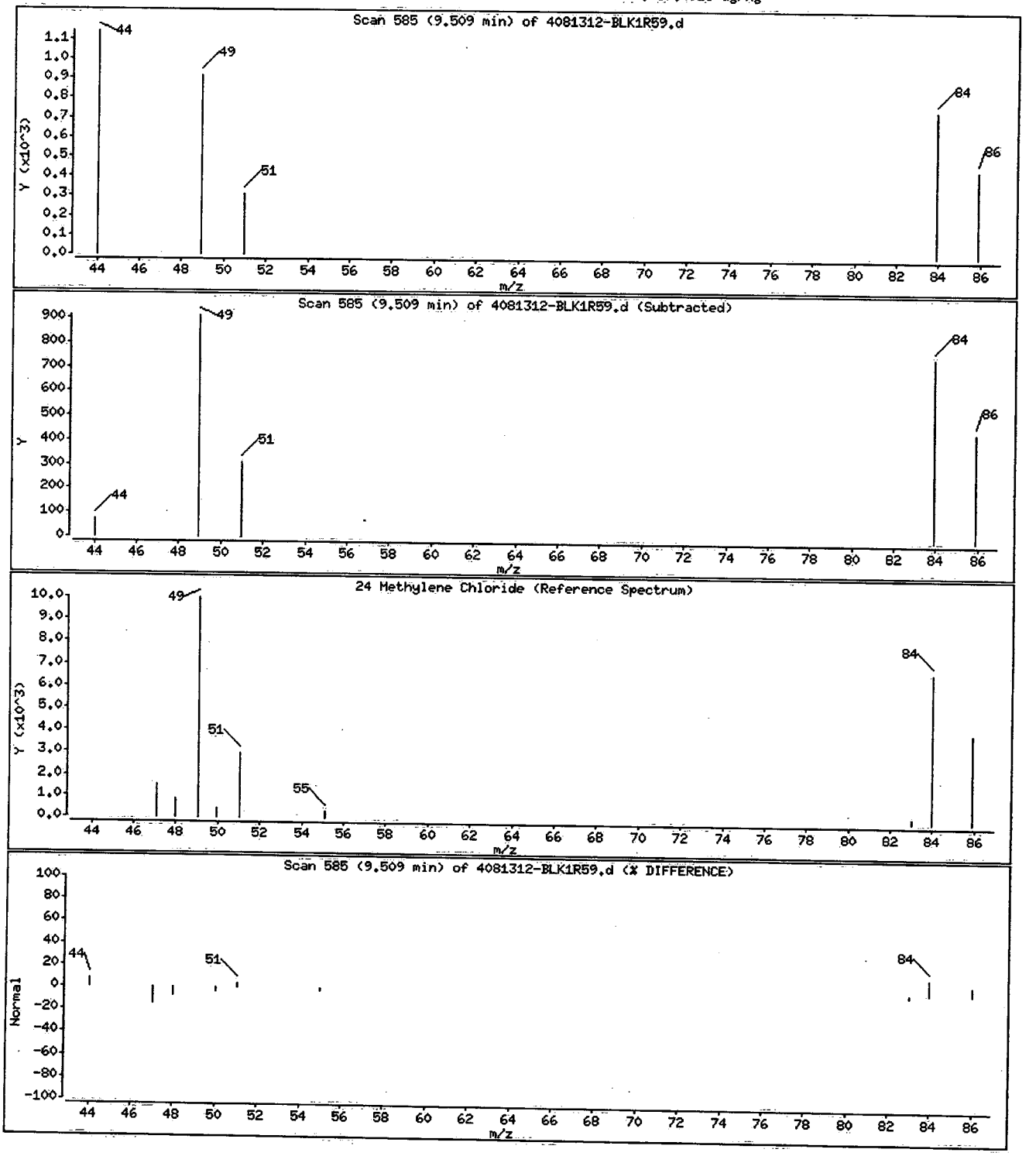
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

24 Methylene Chloride

Concentration: 37.4915 ug/Kg



Roldw Hani 8/14/2014

ANALYSIS DATA SHEET

SW 8260B

VBLKGA

Client: WESTON SOLUTIONS SDG: 1408028 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Matrix: Soil Med Extraction: EPA 5030B/5035A File ID: 4081503-BLK1R59.d QC Type: Blank

Initial/Final: 5g / 5mL Lab ID: 4081503-BLK1 Column ID: SPB-624

Dilution: 50 pH: Prepared: 08/15/14 14:17

% Moisture: NA Analyzed: 08/15/14 14:17

Batch: 4081503 Sequence: 4H15005 Calibration: 4081203 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC.(ug/kg wet)	MDL	RL	Q
75-71-8	Dichlorodifluoromethane		22	250	U
74-87-3	Chloromethane	170	16	250	J
75-01-4	Vinyl chloride		21	250	U
74-83-9	Bromomethane		29	250	U
75-00-3	Chloroethane		36	250	U
75-69-4	Trichlorofluoromethane		15	250	U
75-35-4	1,1-Dichloroethene		55	250	U
67-64-1	Acetone		250	630	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		26	250	U
75-15-0	Carbon disulfide		7.0	250	U
79-20-9	Methyl acetate		70	250	U
75-09-2	Methylene chloride	51	25	250	J
156-60-5	trans-1,2-Dichloroethene		50	250	U
1634-04-4	Methyl tert-butyl ether		20	250	U
75-34-3	1,1-Dichloroethane		24	250	U
156-59-2	cis-1,2-Dichloroethene		21	250	U
78-93-3	2-Butanone		65	630	U
67-66-3	Chloroform		16	250	U
71-55-6	1,1,1-Trichloroethane		25	250	U
110-82-7	Cyclohexane		16	250	U
56-23-5	Carbon tetrachloride		23	250	U
107-06-2	1,2-Dichloroethane		14	250	U
71-43-2	Benzene		16	250	U
79-01-6	Trichloroethene		16	250	U
108-87-2	Methylcyclohexane		14	250	U
78-87-5	1,2-Dichloropropane		32	250	U
75-27-4	Bromodichloromethane		19	250	U
10061-01-5	cis-1,3-Dichloropropene		20	250	U
108-10-1	4-Methyl-2-pentanone		65	630	U
108-88-3	Toluene	19	17	250	J
10061-02-6	trans-1,3-Dichloropropene		21	250	U
79-00-5	1,1,2-Trichloroethane		36	250	U
127-18-4	Tetrachloroethene		80	250	U
591-78-6	2-Hexanone		50	630	U

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ANALYSIS DATA SHEET

SW 8260B

VBLKGA

Client: WESTON SOLUTIONS SDG: 1408028 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Matrix: Soil Med Extraction: EPA 5030B/5035A File ID: 4081503-BLK1R59.d QC Type: Blank

Initial/Final: 5g / 5mL Lab ID: 4081503-BLK1 Column ID: SPB-624

Dilution: 50 pH: Prepared: 08/15/14 14:17

% Moisture: NA Analyzed: 08/15/14 14:17

Batch: 4081503 Sequence: 4H15005 Calibration: 4081203 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC.(ug/kg wet)	MDL	RL	Q
124-48-1	Dibromochloromethane		28	250	U
106-93-4	1,2-Dibromoethane		11	250	U
108-90-7	Chlorobenzene		13	250	U
100-41-4	Ethylbenzene		29	250	U
179601-23-1	m,p-Xylene		7.0	500	U
95-47-6	o-Xylene		19	250	U
100-42-5	Styrene		4.0	250	U
75-25-2	Bromoform		55	250	U
98-82-8	Isopropylbenzene		11	250	U
79-34-5	1,1,2,2-Tetrachloroethane		19	250	U
541-73-1	1,3-Dichlorobenzene		14	250	U
106-46-7	1,4-Dichlorobenzene		11	250	U
95-50-1	1,2-Dichlorobenzene		18	250	U
96-12-8	1,2-Dibromo-3-chloropropane		33	250	U
120-82-1	1,2,4-Trichlorobenzene		18	250	U
1330-20-7	Xylenes (total)		7.0	250	U

SURROGATE RECOVERY RESULTS	ADDED (ug/kg wet)	CONC (ug/kg wet)	% REC	QC LIMITS	Q
Dibromofluoromethane	2500	2505	100	71 - 141	D
1.2-Dichloroethane-d4	2500	2427	97	70 - 139	D
Toluene-d8	2500	2523	101	72 - 123	D
Bromofluorobenzene	2500	2442	98	65 - 131	D

CAS NO.	TICS	CONC.(ug/kg wet)	Response	R.T.	% Match	Q
000872-50-4	2-Pyrrolidinone, 1-methyl-	960	578200	18.235	94	JN

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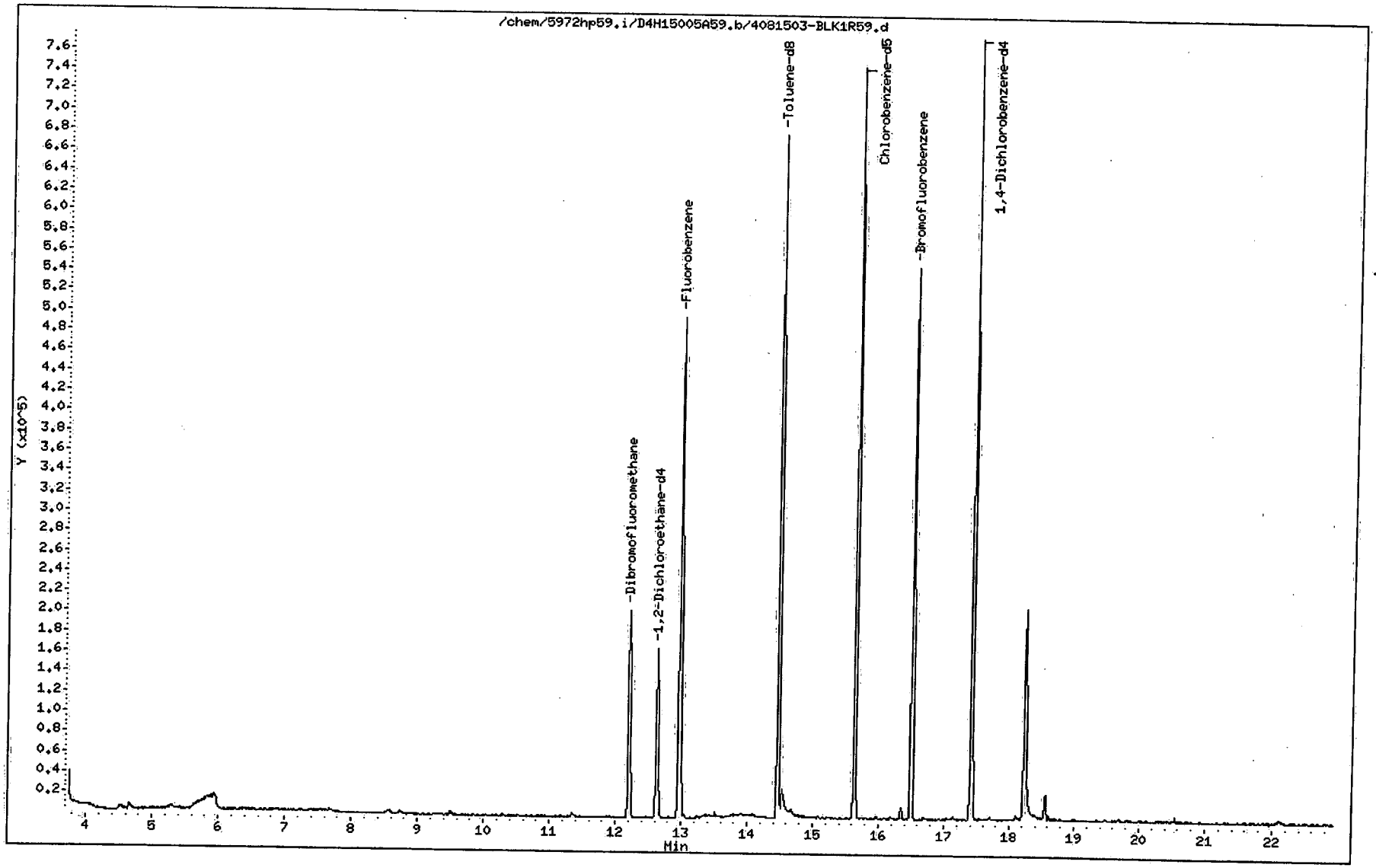
Data File: /chem/5972hp59.i/D4H15005A59.b/4081503-BLK1R59.d
Date : 15-AUG-2014 14:17
Client ID: VBLKGA
Sample Info: 4081503-BLK1:JAO

Column phase: SPB-624

Instrument: 5972hp59.i

Operator: JAO
Column diameter: 0.32



Paldw Ha 8/18/2014

Data File: /chem/5972hp59.i/D4H15005A59.b/4081503-BLK1R59.d
Report Date: 18-Aug-2014 15:40

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp59.i/D4H15005A59.b/4081503-BLK1R59.d
Lab Smp Id: 4081503-BLK1 Client Smp ID: VBLKGA
Inj Date : 15-AUG-2014 14:17
Operator : JAO Inst ID: 5972hp59.i
Smp Info : 4081503-BLK1:JAO
Misc Info : VBLKGA
Comment :
Method : /chem/5972hp59.i/D4H15005A59.b/8260B_5ppbv5.m
Meth Date : 18-Aug-2014 15:40 ron Quant Type: ISTD
Cal Date : 11-AUG-2014 18:02 Cal File: 4H11002-CAL3R59.d
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TCL4.sub
Target Version: 3.50
Processing Host: dante

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

Name	Value	Description
DF	1.00000	Dilution Factor
Ws	5.00000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Vt	5000.00000	
Va	100.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
* 1 Fluorobenzene	96	12.969	12.972	(1.000)	554407	250.000	
* 2 Chlorobenzene-d5	117	15.632	15.634	(1.000)	489209	250.000	
* 3 1,4-Dichlorobenzene-d4	152	17.407	17.419	(1.000)	267413	250.000	
$ 4 Dibromofluoromethane	113	12.210	12.212	(0.941)	157932	250.527	2505.27
$ 5 1,2-Dichloroethane-d4	65	12.634	12.636	(0.974)	129698	242.653	2426.53
$ 6 Toluene-d8	98	14.459	14.471	(0.925)	503924	252.250	2522.50
$ 7 Bromofluorobenzene	95	16.500	16.502	(0.948)	208511	244.206	2442.06
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane	50	4.656	4.678	(0.359)	10553	16.6162	166.162(a)
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					

8/18/2014

Data File: /chem/5972hp59.i/D4H15005A59.b/4081503-BLK1R59.d
Report Date: 18-Aug-2014 15:40

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
17 1,1-Dichloroethene	96	Compound Not Detected.					
18 Acetone	43	Compound Not Detected.					
16 1,1,2-trichloro-1,2,2-trifluo	101	Compound Not Detected.					
20 Carbon disulfide	76	Compound Not Detected.					
23 Methyl acetate	43	Compound Not Detected.					
24 Methylene Chloride	84	9.498	9.510	(0.732)	2827	5.06319	50.6319(a)
28 trans-1,2-Dichloroethene	96	Compound Not Detected.					
26 Methyl-tert-butyl ether	73	Compound Not Detected.					
32 1,1-Dichloroethane	63	Compound Not Detected.					
37 cis-1,2-Dichloroethene	96	Compound Not Detected.					
35 2-butanone	43	Compound Not Detected.					
42 Chloroform	83	Compound Not Detected.					
43 1,1,1-Trichloroethane	97	Compound Not Detected.					
44 Cyclohexane	56	Compound Not Detected.					
48 Carbon Tetrachloride	117	Compound Not Detected.					
50 1,2-Dichloroethane	62	Compound Not Detected.					
49 Benzene	78	Compound Not Detected.					
51 Trichloroethene	130	Compound Not Detected.					
52 Methylcyclohexane	83	Compound Not Detected.					
54 1,2-Dichloropropane	63	Compound Not Detected.					
57 Bromodichloromethane	83	Compound Not Detected.					
58 cis-1,3-Dichloropropene	75	Compound Not Detected.					
59 4-Methyl-2-pentanone	43	Compound Not Detected.					
60 Toluene	92	14.528	14.530	(0.929)	2373	1.90217	19.0217(a)
62 trans-1,3-Dichloropropene	75	Compound Not Detected.					
63 1,1,2-Trichloroethane	97	Compound Not Detected.					
67 Tetrachloroethene	164	Compound Not Detected.					
64 2-hexanone	43	Compound Not Detected.					
68 Dibromochloromethane	129	Compound Not Detected.					
69 1,2-Dibromoethane	107	Compound Not Detected.					
71 Chlorobenzene	112	Compound Not Detected.					
72 Ethylbenzene	106	Compound Not Detected.					
75 m,p-Xylene (part of total)	106	Compound Not Detected.					
77 o-Xylene (part of total)	106	Compound Not Detected.					
78 Styrene	104	Compound Not Detected.					
79 Bromoform	173	Compound Not Detected.					
80 Isopropyl Benzene	105	Compound Not Detected.					
81 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
94 1,3-Dichlorobenzene	146	Compound Not Detected.					
95 1,4-Dichlorobenzene	146	Compound Not Detected.					
97 1,2-Dichlorobenzene	146	Compound Not Detected.					
98 1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.					
99 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
M 104 Xylene (total)	106	Compound Not Detected.					

8/18/2014

Data File: /chem/5972hp59.i/D4H15005A59.b/4081503-BLK1R59.d
Report Date: 18-Aug-2014 15:40

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

8/18/2014

Data File: /chem/5972hp59.i/D4H15005A59.b/4081503-BLK1R59.d
Report Date: 18-Aug-2014 15:40

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp59.i/D4H15005A59.b/4081503-BLK1R59.d
Lab Smp Id: 4081503-BLK1 Client Smp ID: VBLKGA
Inj Date : 15-AUG-2014 14:17
Operator : JAO Inst ID: 5972hp59.i
Smp Info : 4081503-BLK1:JAO
Misc Info : VBLKGA
Comment :
Method : /chem/5972hp59.i/D4H15005A59.b/8260B_5ppbv5.m
Meth Date : 18-Aug-2014 15:40 ron Quant Type: ISTD
Cal Date : 11-AUG-2014 18:02 Cal File: 4H11002-CAL3R59.d
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TCL4.sub
Target Version: 3.50
Processing Host: dante

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

Name	Value	Description
DF	1.00000	Dilution Factor
Ws	5.00000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Vt	5000.00000	
Va	100.00000	

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 3 1,4-Dichlorobenzene-d4	17.407	1507960	250.000

	CONCENTRATIONS				QUANT		
RT	AREA	ON-COL(ng)	FINAL(ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
2-Pyrrolidinone, 1-methyl-				CAS #: 872-50-4			
18.235	578200	95.8579065	958.579	94	NIS08.1	3475	3

8/18/2014

Data File: /chem/5972hp59.i/D4H15005A59.b/4081503-BLK1R59.d

Date : 15-AUG-2014 14:17

Client ID: VBLKGA

Instrument: 5972hp59.i

Sample Info: 4081503-BLK1:JAO

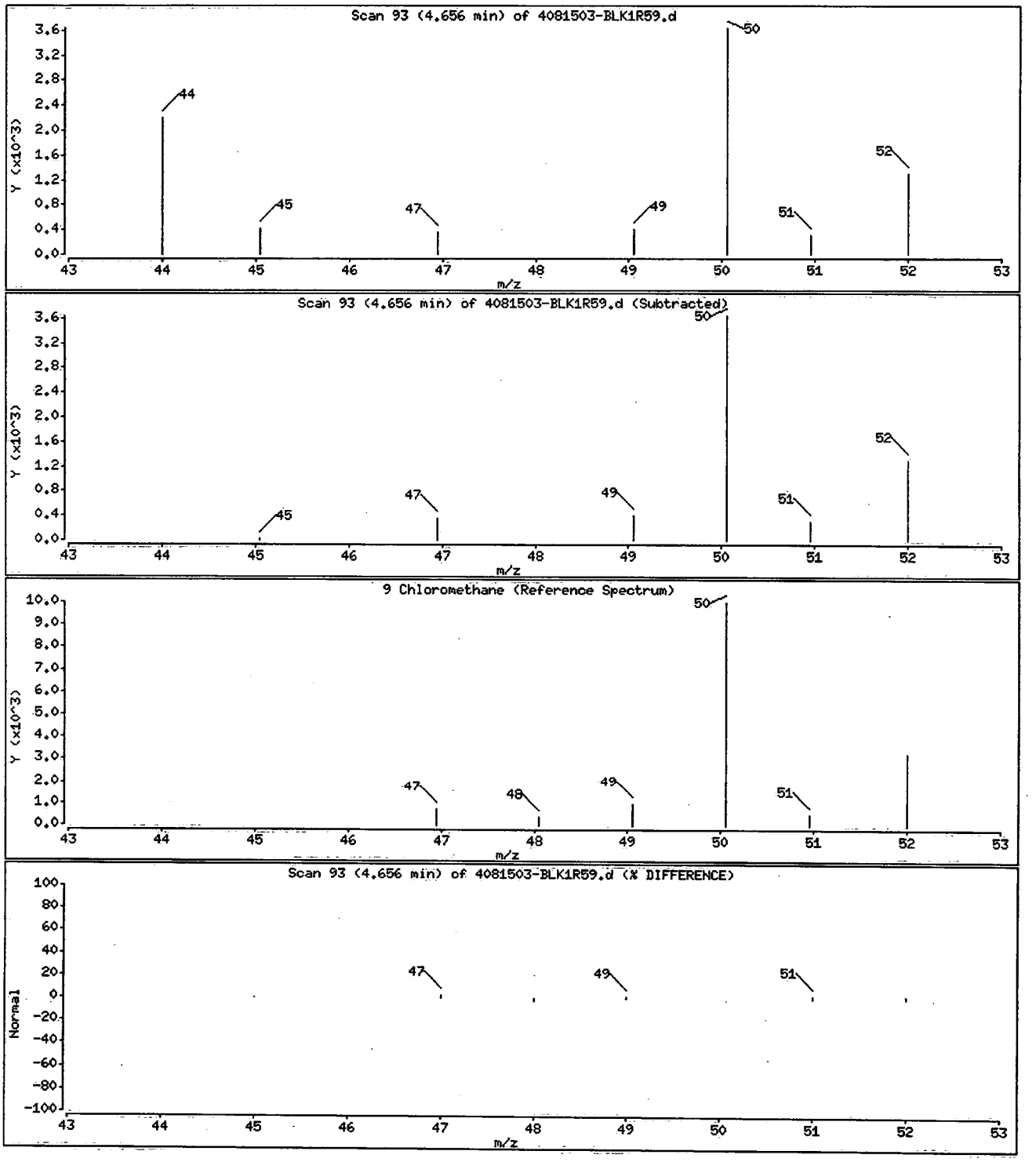
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

9 Chloromethane

Concentration: 166.162 ug/Kg



Roldw Hani 8/18/2014

Data File: /chem/5972hp59.i/D4H15005A59.b/4081503-BLK1R59.d

Date : 15-AUG-2014 14:17

Client ID: VBLKGA

Instrument: 5972hp59.i

Sample Info: 4081503-BLK1:JAO

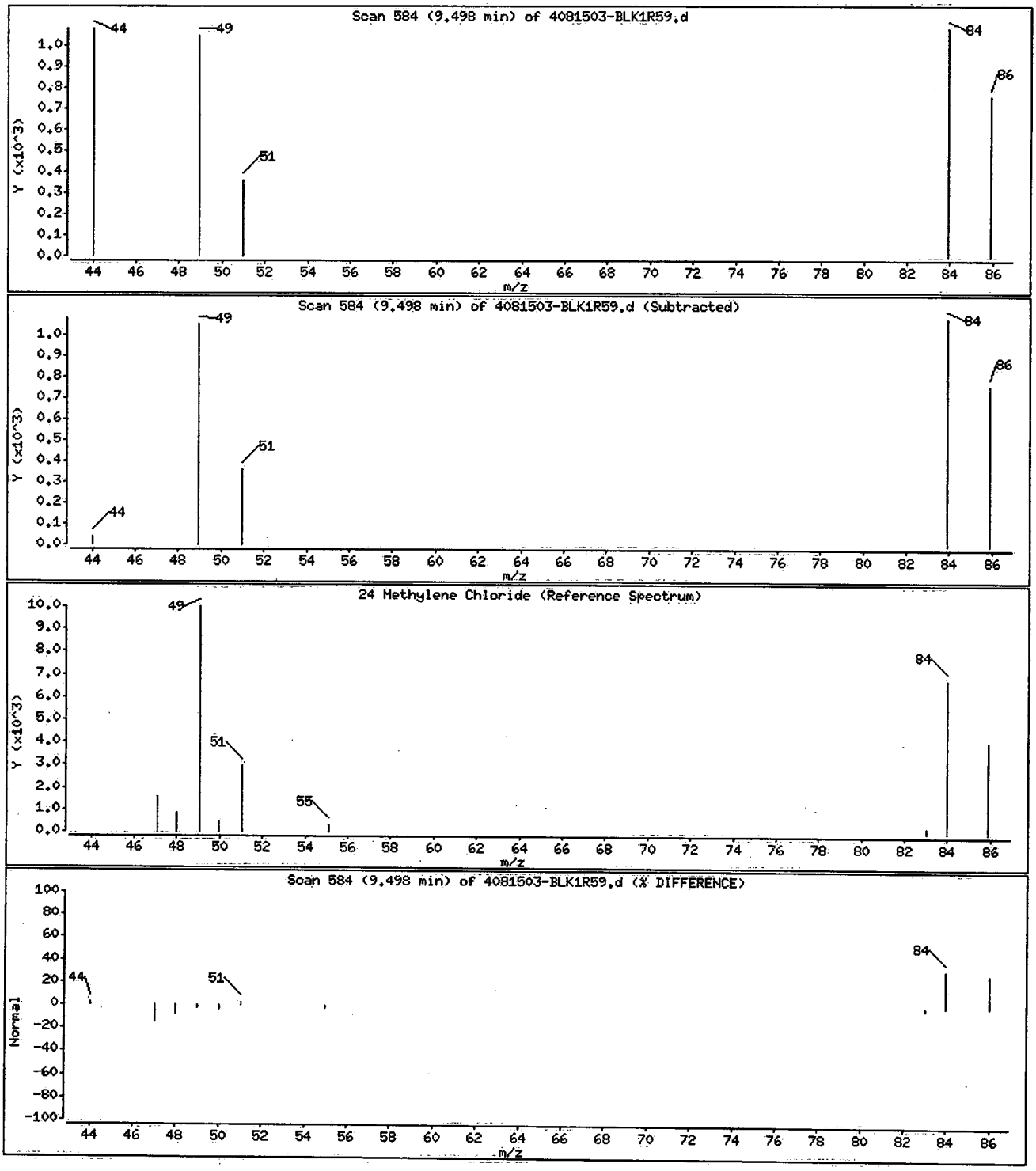
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

24 Methylene Chloride

Concentration: 50.6319 ug/Kg



8/18/2014

Data File: /chem/5972hp59.i/D4H15005A59.b/4081503-BLK1R59.d

Date : 15-AUG-2014 14:17

Client ID: VBLKGA

Instrument: 5972hp59.i

Sample Info: 4081503-BLK1:JAO

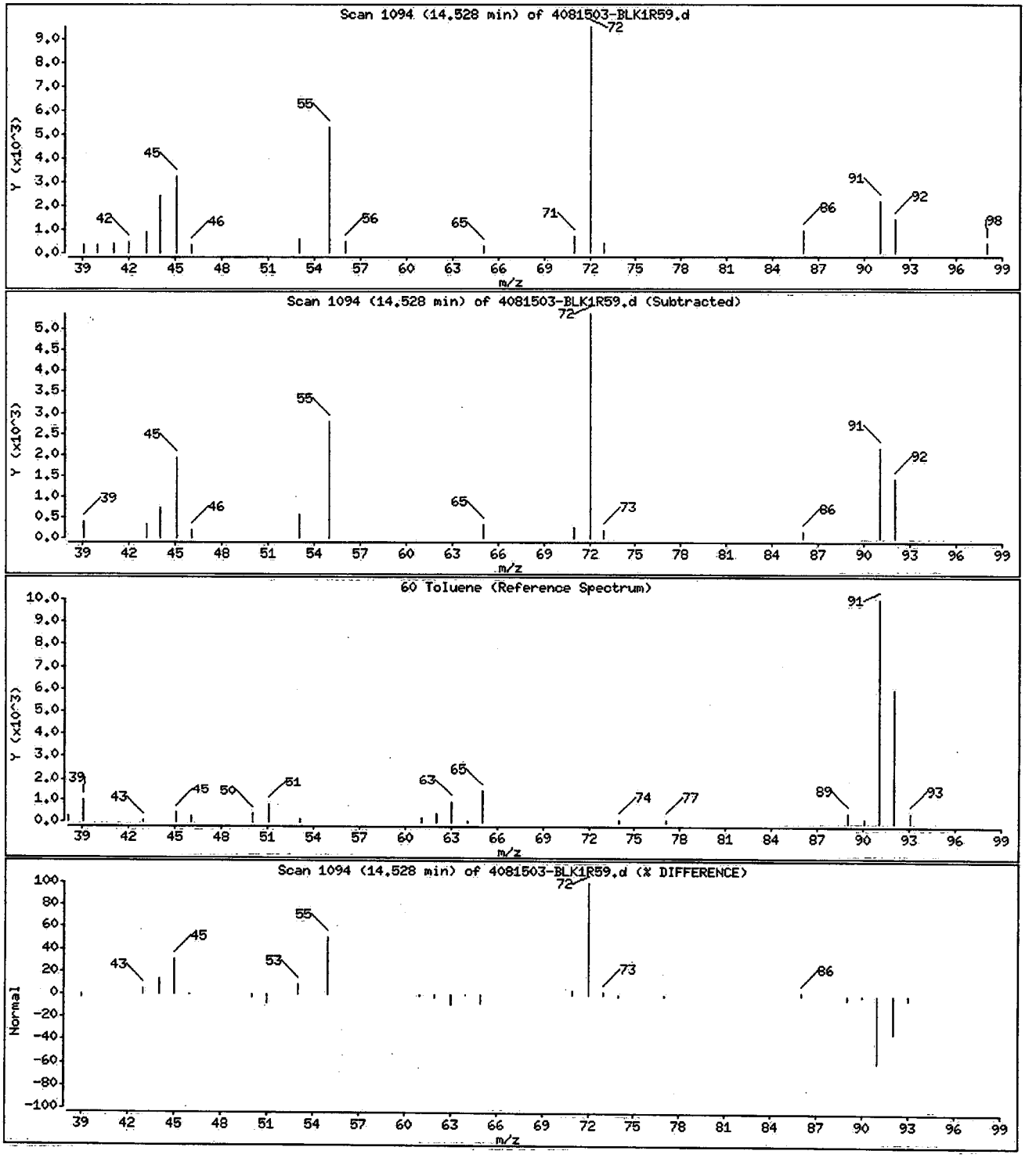
Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

60 Toluene

Concentration: 19.0217 ug/Kg



Robin Hamm 8/18/2014

Data File: /chem/5972hp59.i/D4H15005A59.b/4081503-BLK1R59.d

Date : 15-AUG-2014 14:17

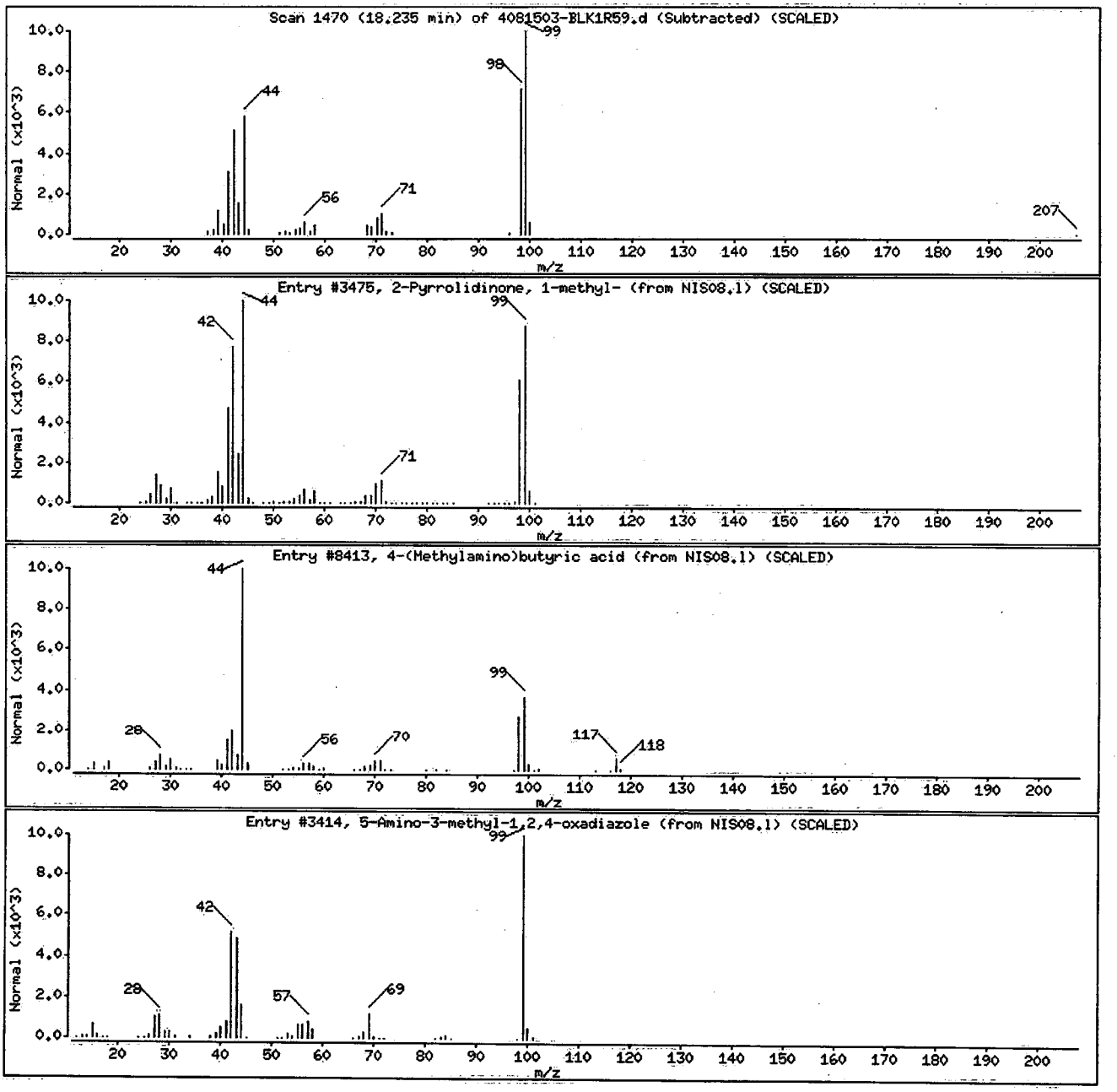
Client ID: VBLKGA | Instrument: 5972hp59.i

Sample Info: 4081503-BLK1:JAO

Operator: JAO

Column phase: SPB-624 | Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Pyrrolidinone, 1-methyl-	872-50-4	NIS08.1	3475	94	C5H9NO	99
4-(Methylamino)butyric acid	1119-48-8	NIS08.1	8413	64	C5H11NO2	117
5-Amino-3-methyl-1,2,4-oxadiazole	3663-39-6	NIS08.1	3414	46	C3H5N3O	99



8/18/2014

P. Laboratory Control Sample Data

Tabulated Results (ANALYSIS DATA SHEET)

RIC and Quantitation report

ANALYSIS DATA SHEET

SW 8260B

VLCSFX

Client: WESTON SOLUTIONS SDG: 1408028 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Matrix: Soil Med Extraction: EPA 5030B/5035A File ID: 4081312-BS159.d QC Type: LCS

Initial/Final: 5g / 5mL Lab ID: 4081312-BS1 Column ID: SPB-624

Dilution: 50 pH: Prepared: 08/13/14 15:37

% Moisture: NA Analyzed: 08/13/14 17:19

Batch: 4081312 Sequence: 4H13004 Calibration: 4081203 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC.(ug/kg wet)	MDL	RL	Q
75-71-8	Dichlorodifluoromethane	2307	22	250	
74-87-3	Chloromethane	2206	16	250	
75-01-4	Vinyl chloride	2324	21	250	
74-83-9	Bromomethane	2377	29	250	
75-00-3	Chloroethane	2424	36	250	
75-69-4	Trichlorofluoromethane	2139	15	250	
75-35-4	1,1-Dichloroethene	2391	55	250	
67-64-1	Acetone	5334	250	630	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2139	26	250	
75-15-0	Carbon disulfide	2449	7.0	250	
79-20-9	Methyl acetate	1834	70	250	
75-09-2	Methylene chloride	2376	25	250	B
156-60-5	trans-1,2-Dichloroethene	2462	50	250	
1634-04-4	Methyl tert-butyl ether	2346	20	250	
75-34-3	1,1-Dichloroethane	2302	24	250	
156-59-2	cis-1,2-Dichloroethene	2376	21	250	
78-93-3	2-Butanone	5232	65	630	
67-66-3	Chloroform	2394	16	250	
71-55-6	1,1,1-Trichloroethane	2441	25	250	
110-82-7	Cyclohexane	1925	16	250	
56-23-5	Carbon tetrachloride	2370	23	250	
107-06-2	1,2-Dichloroethane	2358	14	250	
71-43-2	Benzene	2604	16	250	
79-01-6	Trichloroethene	2525	16	250	
108-87-2	Methylcyclohexane	1766	14	250	
78-87-5	1,2-Dichloropropane	2381	32	250	
75-27-4	Bromodichloromethane	2466	19	250	
10061-01-5	cis-1,3-Dichloropropene	2579	20	250	
108-10-1	4-Methyl-2-pentanone	5830	65	630	
108-88-3	Toluene	2783	17	250	
10061-02-6	trans-1,3-Dichloropropene	2586	21	250	
79-00-5	1,1,2-Trichloroethane	2720	36	250	
127-18-4	Tetrachloroethene	2678	80	250	
591-78-6	2-Hexanone	5978	50	630	

Environmental Testing Laboratories CompuChem A Division Of Liberty Analytical Corp.

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ANALYSIS DATA SHEET
SW 8260B

VLCSFX

Client: WESTON SOLUTIONS SDG: 1408028 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Matrix: Soil Med Extraction: EPA 5030B/5035A File ID: 4081312-BS159.d QC Type: LCS

Initial/Final: 5g / 5mL Lab ID: 4081312-BS1 Column ID: SPB-624

Dilution: 50 pH: Prepared: 08/13/14 15:37

% Moisture: NA Analyzed: 08/13/14 17:19

Batch: 4081312 Sequence: 4H13004 Calibration: 4081203 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC.(ug/kg wet)	MDL	RL	Q
124-48-1	Dibromochloromethane	2741	28	250	
106-93-4	1,2-Dibromoethane	2721	11	250	
108-90-7	Chlorobenzene	2553	13	250	
100-41-4	Ethylbenzene	2632	29	250	
179601-23-1	m,p-Xylene	5339	7.0	500	
95-47-6	o-Xylene	2788	19	250	
100-42-5	Styrene	2818	4.0	250	
75-25-2	Bromoform	2671	55	250	
98-82-8	Isopropylbenzene	2749	11	250	
79-34-5	1,1,2,2-Tetrachloroethane	2537	19	250	
541-73-1	1,3-Dichlorobenzene	2776	14	250	
106-46-7	1,4-Dichlorobenzene	2663	11	250	
95-50-1	1,2-Dichlorobenzene	2746	18	250	
96-12-8	1,2-Dibromo-3-chloropropane	2902	33	250	
120-82-1	1,2,4-Trichlorobenzene	2749	18	250	
1330-20-7	Xylenes (total)	8127	7.0	250	

SURROGATE RECOVERY RESULTS	ADDED (ug/kg wet)	CONC (ug/kg wet)	% REC	QC LIMITS	Q
Dibromofluoromethane	2500	2306	92	71 - 141	D
1,2-Dichloroethane-d4	2500	2213	89	70 - 139	D
Toluene-d8	2500	2499	100	72 - 123	D
Bromofluorobenzene	2500	2658	106	65 - 131	D

Environmental Testing Laboratories
CompuChem
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Liberty Analytical Corp.

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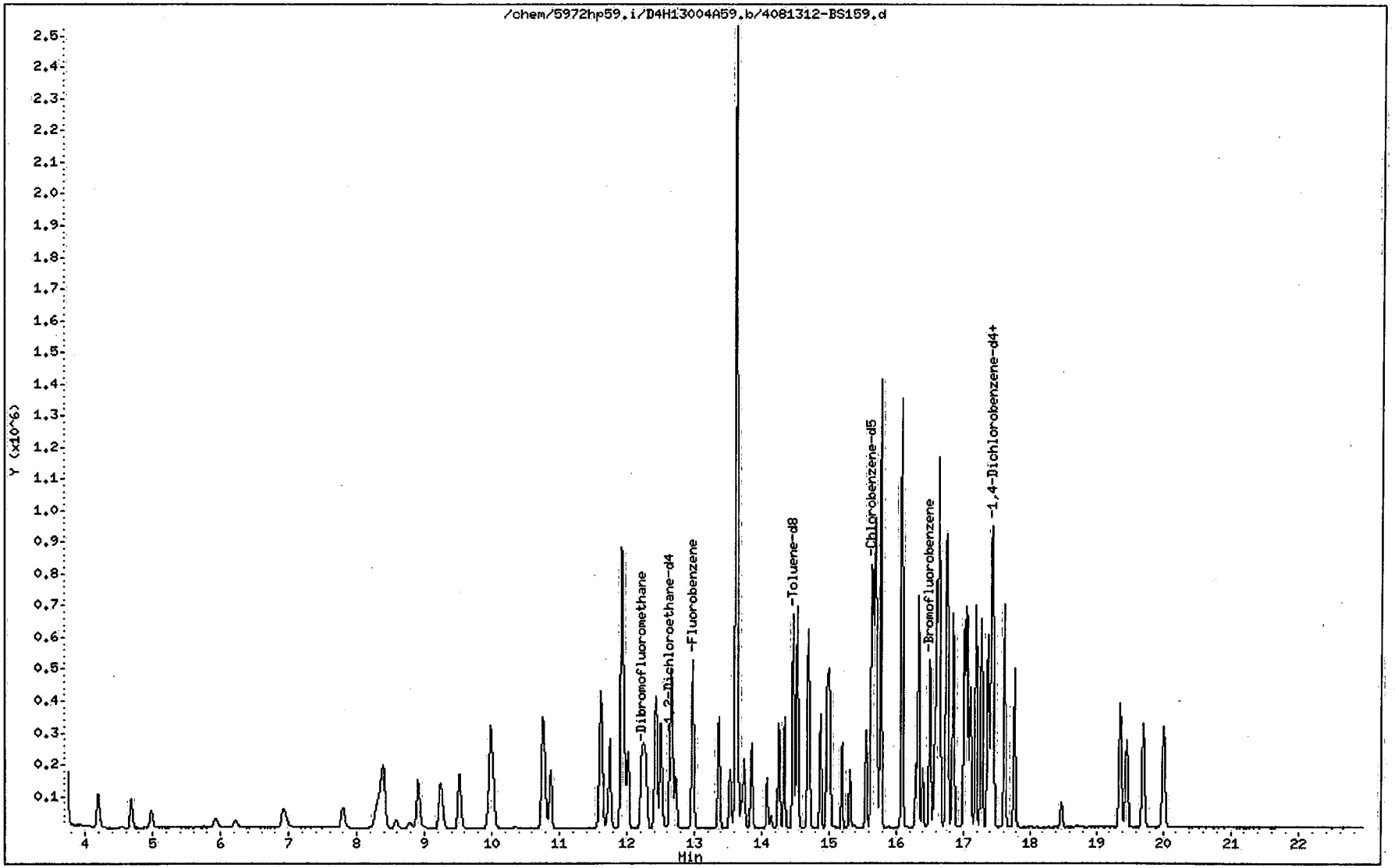
Data File: /chem/5972hp59.i/D4H13004A59.b/4081312-BS159.d
Date : 13-AUG-2014 17:19
Client ID: VLCSFX
Sample Info: 4081312-BS1;JAO

Instrument: 5972hp59.i

Operator: JAO

Column phase: SPB-624

Column diameter: 0.32



8/14/2014

Data File: /chem/5972hp59.i/D4H13004A59.b/4081312-BS159.d
Report Date: 14-Aug-2014 13:27

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp59.i/D4H13004A59.b/4081312-BS159.d
Lab Smp Id: 4081312-BS1 Client Smp ID: VLCSFX
Inj Date : 13-AUG-2014 17:19
Operator : JAO Inst ID: 5972hp59.i
Smp Info : 4081312-BS1:JAO
Misc Info : VLCSFX
Comment :
Method : /chem/5972hp59.i/D4H13004A59.b/8260B_5ppbv5.m
Meth Date : 14-Aug-2014 13:27 ron Quant Type: ISTD
Cal Date : 11-AUG-2014 18:02 Cal File: 4H11002-CAL3R59.d
Als bottle: 6 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DC.sub
Target Version: 3.50
Processing Host: dante

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

Name	Value	Description
DF	1.00000	Dilution Factor
Ws	5.00000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Vt	5000.00000	
Va	100.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
* 1 Fluorobenzene	96	12.979	12.972	(1.000)	565646	250.000	
* 2 Chlorobenzene-d5	117	15.642	15.634	(1.000)	467921	250.000	
* 3 1,4-Dichlorobenzene-d4	152	17.417	17.419	(1.000)	242309	250.000	
$ 4 Dibromofluoromethane	113	12.220	12.212	(0.941)	148335	230.628	2306.28
$ 5 1,2-Dichloroethane-d4	65	12.644	12.636	(0.974)	120673	221.282	2212.82
$ 6 Toluene-d8	98	14.469	14.471	(0.925)	477417	249.854	2498.54
$ 7 Bromofluorobenzene	95	16.500	16.502	(0.947)	205648	265.806	2658.06
8 Dichlorodifluoromethane	85	4.193	4.185	(0.323)	172610	230.714	2307.14
9 Chloromethane	50	4.686	4.678	(0.361)	142913	220.552	2205.52
10 Vinyl Chloride	62	4.982	4.964	(0.384)	90835	232.404	2324.04
11 Bromomethane	94	5.919	5.931	(0.456)	42460	237.717	2377.17
12 Chloroethane	64	6.215	6.207	(0.479)	39677	242.358	2423.58
13 Trichlorofluoromethane	101	8.355	8.347	(0.644)	131906	213.855	2138.55

Roldan Hani 8/14/2014

Data File: /chem/5972hp59.i/D4H13004A59.b/4081312-BS159.d
Report Date: 14-Aug-2014 13:27

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
14 Acrolein	56	8.216	8.199	(0.633)	3153	118.563	1185.63(aR)
15 1,1,1-trichloro-2,2,2-trifluo	117	8.295	8.288	(0.639)	43418	209.817	2098.17
16 1,1,2-trichloro-1,2,2-trifluo	101	8.355	8.347	(0.644)	131906	213.855	2138.55
17 1,1-Dichloroethene	96	8.394	8.386	(0.647)	110346	239.096	2390.96
18 Acetone	43	8.581	8.564	(0.661)	61245	533.441	5334.41
19 Iodomethane	142	8.779	8.781	(0.676)	40776	170.846	1708.46
20 Carbon disulfide	76	8.907	8.889	(0.686)	431456	244.890	2448.90
21 3-Chloropropene	76	9.242	9.224	(0.712)	56310	275.123	2751.23
22 Acetonitrile	41	9.232	9.234	(0.711)	145236	248.630	2486.30
23 Methyl acetate	43	9.262	9.254	(0.714)	93331	183.404	1834.04
24 Methylene Chloride	84	9.528	9.510	(0.734)	135365	237.623	2376.23
25 Acrylonitrile	53	10.031	10.023	(0.773)	138440	1021.58	10215.8(R)
26 Methyl-tert-butyl ether	73	9.962	9.954	(0.767)	273188	234.624	2346.24
28 trans-1,2-Dichloroethene	96	9.992	9.984	(0.770)	128083	246.206	2462.06
29 trans-1,2-DCE (part of total)	96	9.992	9.984	(0.770)	128083	246.206	2462.06
31 Isopropyl ether	45	10.771	10.763	(0.830)	364465	229.381	2293.81
32 1,1-Dichloroethane	63	10.751	10.743	(0.828)	211837	230.225	2302.25
33 Vinyl acetate	43	10.771	10.753	(0.830)	153938	212.978	2129.78(M)
34 Chloroprene	53	10.869	10.861	(0.837)	150803	243.112	2431.12
35 2-butanone	43	11.609	11.611	(0.894)	107162	523.203	5232.03
36 2,2-Dichloropropane	77	11.609	11.601	(0.894)	160726	235.374	2353.74
37 cis-1,2-Dichloroethene	96	11.628	11.621	(0.896)	138053	237.553	2375.53
38 cis-1,2-DCE (part of total)	96	11.628	11.621	(0.896)	138053	237.553	2375.53
39 Propionitrile	54	11.747	11.749	(0.905)	366025	6760.24	67602.4
40 Methacrylonitrile	41	11.924	11.916	(0.919)	564658	2000.31	20003.1
41 Bromochloromethane	128	11.944	11.936	(0.920)	65324	273.616	2736.16
42 Chloroform	83	12.013	12.015	(0.926)	221005	239.420	2394.20
43 1,1,1-Trichloroethane	97	12.250	12.242	(0.944)	176197	244.061	2440.61
44 Cyclohexane	56	12.279	12.271	(0.946)	103431	192.541	1925.41
46 1,1-dichloropropene	75	12.437	12.429	(0.958)	157722	239.342	2393.42
47 Isobutyl alcohol	43	12.506	12.498	(0.964)	258314	11340.2	113402
48 Carbon Tetrachloride	117	12.427	12.419	(0.957)	160086	236.964	2369.64
49 Benzene	78	12.664	12.666	(0.976)	516097	260.406	2604.06
50 1,2-Dichloroethane	62	12.723	12.725	(0.980)	144911	235.772	2357.72
51 Trichloroethene	130	13.364	13.356	(1.030)	140170	252.464	2524.64
52 Methylcyclohexane	83	13.542	13.534	(1.043)	91896	176.602	1766.02(R)
53 Methylmethacrylate	100	13.630	13.632	(1.050)	461208	2981.86	29818.6
54 1,2-Dichloropropane	63	13.620	13.613	(1.049)	123022	238.138	2381.38
55 1,4-dioxane	88	13.699	13.692	(1.055)	68557	12094.6	120946
56 Dibromomethane	174	13.739	13.741	(1.059)	86488	267.394	2673.94
57 Bromodichloromethane	83	13.857	13.849	(1.068)	181858	246.552	2465.52
58 cis-1,3-Dichloropropene	75	14.252	14.254	(1.098)	206788	257.928	2579.28
59 4-Methyl-2-pentanone	43	14.340	14.332	(0.917)	266097	583.021	5830.21
60 Toluene	92	14.528	14.530	(0.929)	332025	278.256	2782.56
61 Ethylmethacrylate	99	14.695	14.687	(0.939)	56842	615.068	6150.68(R)
62 trans-1,3-Dichloropropene	75	14.715	14.707	(0.941)	173280	258.646	2586.46
63 1,1,2-Trichloroethane	97	14.873	14.865	(0.951)	118723	272.002	2720.02

8/14/2014

Data File: /chem/5972hp59.i/D4H13004A59.b/4081312-BS159.d
Report Date: 14-Aug-2014 13:27

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
64 2-hexanone	43	15.001	15.003	(0.959)	199743	597.847	5978.47
65 2-chloroethyl vinyl ether	63	14.084	14.076	(1.085)	57902	259.997	2599.97
66 1,3-Dichloropropane	76	15.021	15.013	(0.960)	199281	272.893	2728.93
67 Tetrachloroethene	164	14.981	14.973	(0.958)	111403	267.799	2677.99
68 Dibromochloromethane	129	15.198	15.190	(0.972)	155310	274.146	2741.46
69 1,2-Dibromoethane	107	15.317	15.309	(0.979)	133361	272.116	2721.16
70 1-Chlorohexane	55	15.563	15.555	(0.995)	74457	217.075	2170.75
71 Chlorobenzene	112	15.662	15.664	(1.001)	373684	255.279	2552.79
72 Ethylbenzene	106	15.691	15.693	(1.003)	182514	263.184	2631.84
73 1,1,1,2-Tetrachloroethane	131	15.711	15.703	(1.004)	138047	266.897	2668.97
74 m,p-Xylene	106	15.770	15.772	(1.008)	469668	533.894	5338.94
75 m,p-Xylene (part of total)	106	15.770	15.772	(1.008)	469668	533.894	5338.94
76 o-Xylene	106	16.086	16.088	(1.028)	237217	278.812	2788.12
77 o-Xylene (part of total)	106	16.086	16.088	(1.028)	237217	278.812	2788.12
78 Styrene	104	16.096	16.088	(1.029)	399530	281.814	2818.14
79 Bromoform	173	16.293	16.295	(0.935)	100367	267.104	2671.04
80 Isopropyl Benzene	105	16.332	16.334	(1.044)	558239	274.859	2748.59
81 1,1,2,2-Tetrachloroethane	83	16.569	16.571	(0.951)	175657	253.654	2536.54
82 trans-1,4-dichloro-2-butene	53	16.599	16.601	(1.061)	158909	1006.86	10068.6
83 1,2,3-Trichloropropane	110	16.638	16.630	(1.064)	40925	263.042	2630.42
84 Bromobenzene	156	16.658	16.660	(1.065)	173833	283.327	2833.27
85 n-Propyl Benzene	91	16.638	16.640	(0.955)	747083	252.528	2525.28
86 1,3,5-Trimethyl Benzene	105	16.746	16.748	(0.961)	464938	262.667	2626.67
87 2-Chlorotoluene	91	16.766	16.768	(0.963)	466980	257.479	2574.79
88 4-Chlorotoluene	91	16.845	16.847	(0.967)	447016	262.934	2629.34
89 tert-Butyl Benzene	119	17.023	17.015	(0.977)	464622	269.868	2698.68
90 1,2,4-Trimethyl Benzene	105	17.052	17.054	(0.979)	479330	261.914	2619.14
91 Pentachloroethane	167	17.101	17.103	(0.982)	100400	279.842	2798.42
92 sec-Butyl Benzene	105	17.190	17.192	(0.987)	624253	263.926	2639.26
93 p-Isopropyl Toluene	119	17.279	17.271	(0.992)	513040	268.539	2685.39
94 1,3-Dichlorobenzene	146	17.368	17.370	(0.997)	328436	277.612	2776.12
95 1,4-Dichlorobenzene	146	17.437	17.439	(1.001)	323228	266.322	2663.22
96 n-Butyl Benzene	91	17.614	17.616	(1.011)	488134	261.597	2615.97
97 1,2-Dichlorobenzene	146	17.782	17.774	(1.021)	299022	274.564	2745.64
98 1,2-Dibromo-3-Chloropropane	157	18.482	18.474	(1.061)	34647	290.175	2901.75
99 1,2,4-Trichlorobenzene	180	19.360	19.362	(1.112)	201844	274.877	2748.77
100 Hexachlorobutadiene	225	19.458	19.450	(1.117)	88044	235.902	2359.02
101 Naphthalene	128	19.705	19.697	(1.131)	424388	276.384	2763.84
102 1,2,3-Trichlorobenzene	180	20.011	20.003	(1.149)	180001	268.427	2684.27
M 103 1,2-Dichloroethene (total)	96				266136	483.281	4832.81
M 104 Xylene (total)	106				706885	812.706	8127.06

QC Flag Legend

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

8/14/2014

Data File: /chem/5972hp59.i/D4H13004A59.b/4081312-BS159.d
Report Date: 14-Aug-2014 13:27

QC Flag Legend

M - Compound response manually integrated.

8/14/2014

Data File: /chem/5972hp59.i/D4H13004A59.b/4081312-BS159.d
Report Date: 14-Aug-2014 13:27

CompuChem

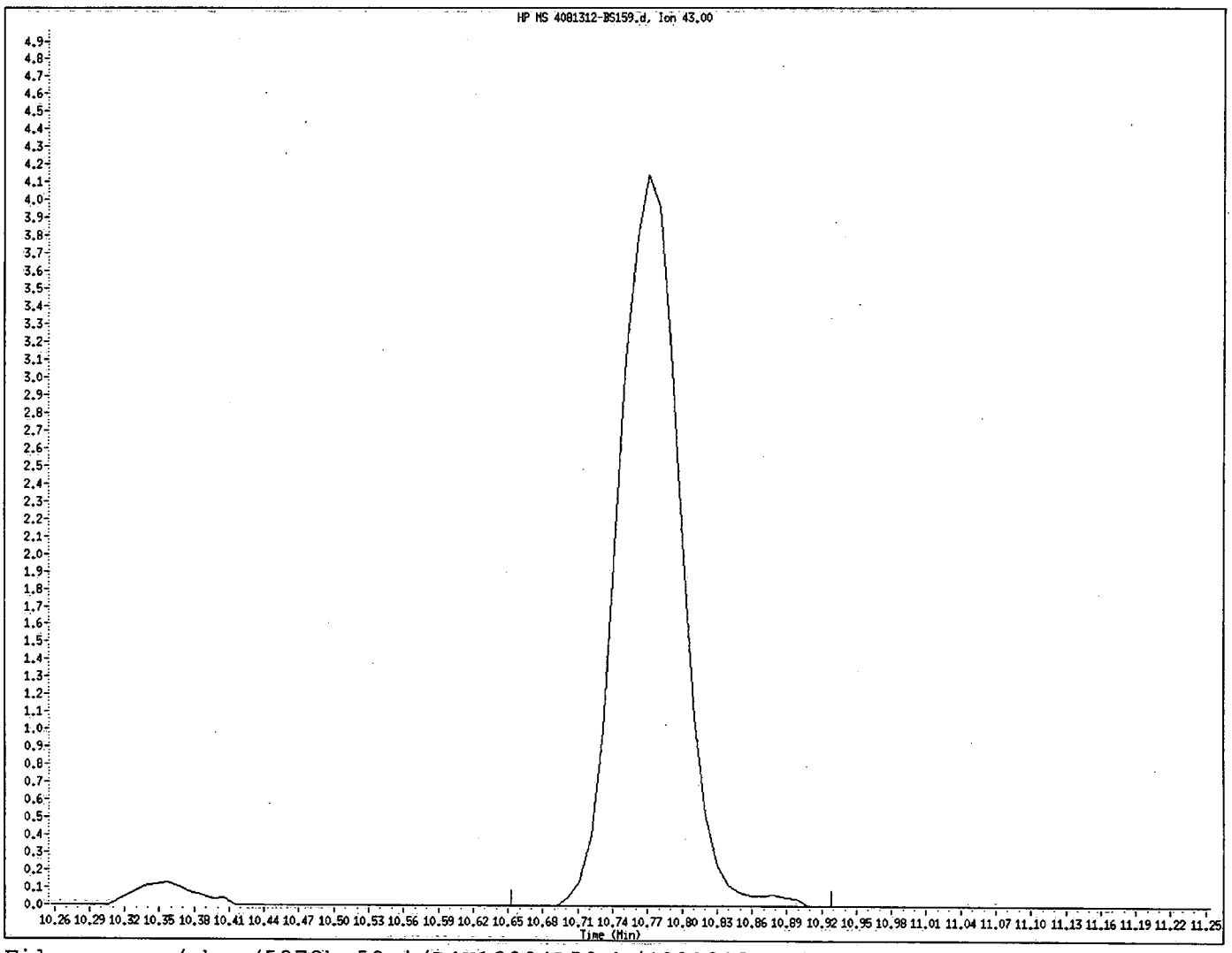
SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp59.i/D4H13004A59.b/4081312-BS159.d
Lab Smp Id: 4081312-BS1 Client Smp ID: VLCSFX
Inj Date : 13-AUG-2014 17:19
Operator : JAO Inst ID: 5972hp59.i
Smp Info : 4081312-BS1:JAO
Misc Info : VLCSFX
Comment :
Method : /chem/5972hp59.i/D4H13004A59.b/8260B_5ppbv5.m
Meth Date : 14-Aug-2014 13:27 ron Quant Type: ISTD
Cal Date : 11-AUG-2014 18:02 Cal File: 4H11002-CAL3R59.d
Als bottle: 6 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DC.sub
Target Version: 3.50
Processing Host: dante

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

8/14/2014

Vinyl acetate CAS Number 108-05-4 Area = 153938 Manually integrated



File name: /chem/5972hp59.i/D4H13004A59.b/4081312-BS159.d
Client ID: VLCSFX
Instrument ID: 5972hp59.i
Injection Date and Time: 13-AUG-2014 17:19
Retention Time: 10.77
Operator ID: JAO

8/14/2014

ANALYSIS DATA SHEET
SW 8260B

VLCSDFX

Client: WESTON SOLUTIONS SDG: 1408028 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Matrix: Soil Med Extraction: EPA 5030B/5035A File ID: 4081312-BSD159.d QC Type: LCS Dup

Initial/Final: 5g / 5mL Lab ID: 4081312-BSD1 Column ID: SPB-624

Dilution: 50 pH: Prepared: 08/13/14 15:37

% Moisture: NA Analyzed: 08/13/14 17:50

Batch: 4081312 Sequence: 4H13004 Calibration: 4081203 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC.(ug/kg wet)	MDL	RL	Q
75-71-8	Dichlorodifluoromethane	2370	22	250	
74-87-3	Chloromethane	2212	16	250	
75-01-4	Vinyl chloride	2491	21	250	
74-83-9	Bromomethane	2396	29	250	
75-00-3	Chloroethane	2612	36	250	
75-69-4	Trichlorofluoromethane	2249	15	250	
75-35-4	1,1-Dichloroethene	2425	55	250	
67-64-1	Acetone	5280	250	630	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2249	26	250	
75-15-0	Carbon disulfide	2455	7.0	250	
79-20-9	Methyl acetate	2223	70	250	
75-09-2	Methylene chloride	2539	25	250	B
156-60-5	trans-1,2-Dichloroethene	2529	50	250	
1634-04-4	Methyl tert-butyl ether	2503	20	250	
75-34-3	1,1-Dichloroethane	2491	24	250	
156-59-2	cis-1,2-Dichloroethene	2451	21	250	
78-93-3	2-Butanone	5485	65	630	
67-66-3	Chloroform	2544	16	250	
71-55-6	1,1,1-Trichloroethane	2501	25	250	
110-82-7	Cyclohexane	2038	16	250	
56-23-5	Carbon tetrachloride	2492	23	250	
107-06-2	1,2-Dichloroethane	2363	14	250	
71-43-2	Benzene	2605	16	250	
79-01-6	Trichloroethene	2711	16	250	
108-87-2	Methylcyclohexane	1903	14	250	
78-87-5	1,2-Dichloropropane	2323	32	250	
75-27-4	Bromodichloromethane	2465	19	250	
10061-01-5	cis-1,3-Dichloropropene	2596	20	250	
108-10-1	4-Methyl-2-pentanone	6187	65	630	
108-88-3	Toluene	2645	17	250	
10061-02-6	trans-1,3-Dichloropropene	2637	21	250	
79-00-5	1,1,2-Trichloroethane	2690	36	250	
127-18-4	Tetrachloroethene	2692	80	250	
591-78-6	2-Hexanone	6041	50	630	

Environmental Testing Laboratories CompuChem A Division Of Liberty Analytical Corp.

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ANALYSIS DATA SHEET

SW 8260B

VLCSDFX

Client: WESTON SOLUTIONS SDG: 1408028 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Matrix: Soil Med Extraction: EPA 5030B/5035A File ID: 4081312-BSD159.d QC Type: LCS Dup

Initial/Final: 5g / 5mL Lab ID: 4081312-BSD1 Column ID: SPB-624

Dilution: 50 pH: Prepared: 08/13/14 15:37

% Moisture: NA Analyzed: 08/13/14 17:50

Batch: 4081312 Sequence: 4H13004 Calibration: 4081203 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC.(ug/kg wet)	MDL	RL	Q
124-48-1	Dibromochloromethane	2635	28	250	
106-93-4	1,2-Dibromoethane	2681	11	250	
108-90-7	Chlorobenzene	2699	13	250	
100-41-4	Ethylbenzene	2665	29	250	
179601-23-1	m,p-Xylene	5390	7.0	500	
95-47-6	o-Xylene	2797	19	250	
100-42-5	Styrene	2785	4.0	250	
75-25-2	Bromoform	2756	55	250	
98-82-8	Isopropylbenzene	2756	11	250	
79-34-5	1,1,2,2-Tetrachloroethane	2566	19	250	
541-73-1	1,3-Dichlorobenzene	2694	14	250	
106-46-7	1,4-Dichlorobenzene	2724	11	250	
95-50-1	1,2-Dichlorobenzene	2767	18	250	
96-12-8	1,2-Dibromo-3-chloropropane	2910	33	250	
120-82-1	1,2,4-Trichlorobenzene	2698	18	250	
1330-20-7	Xylenes (total)	8187	7.0	250	

SURROGATE RECOVERY RESULTS	ADDED (ug/kg wet)	CONC (ug/kg wet)	% REC	QC LIMITS	Q
Dibromofluoromethane	2500	2369	95	71 - 141	D
1,2-Dichloroethane-d4	2500	2300	92	70 - 139	D
Toluene-d8	2500	2483	99	72 - 123	D
Bromofluorobenzene	2500	2468	99	65 - 131	D

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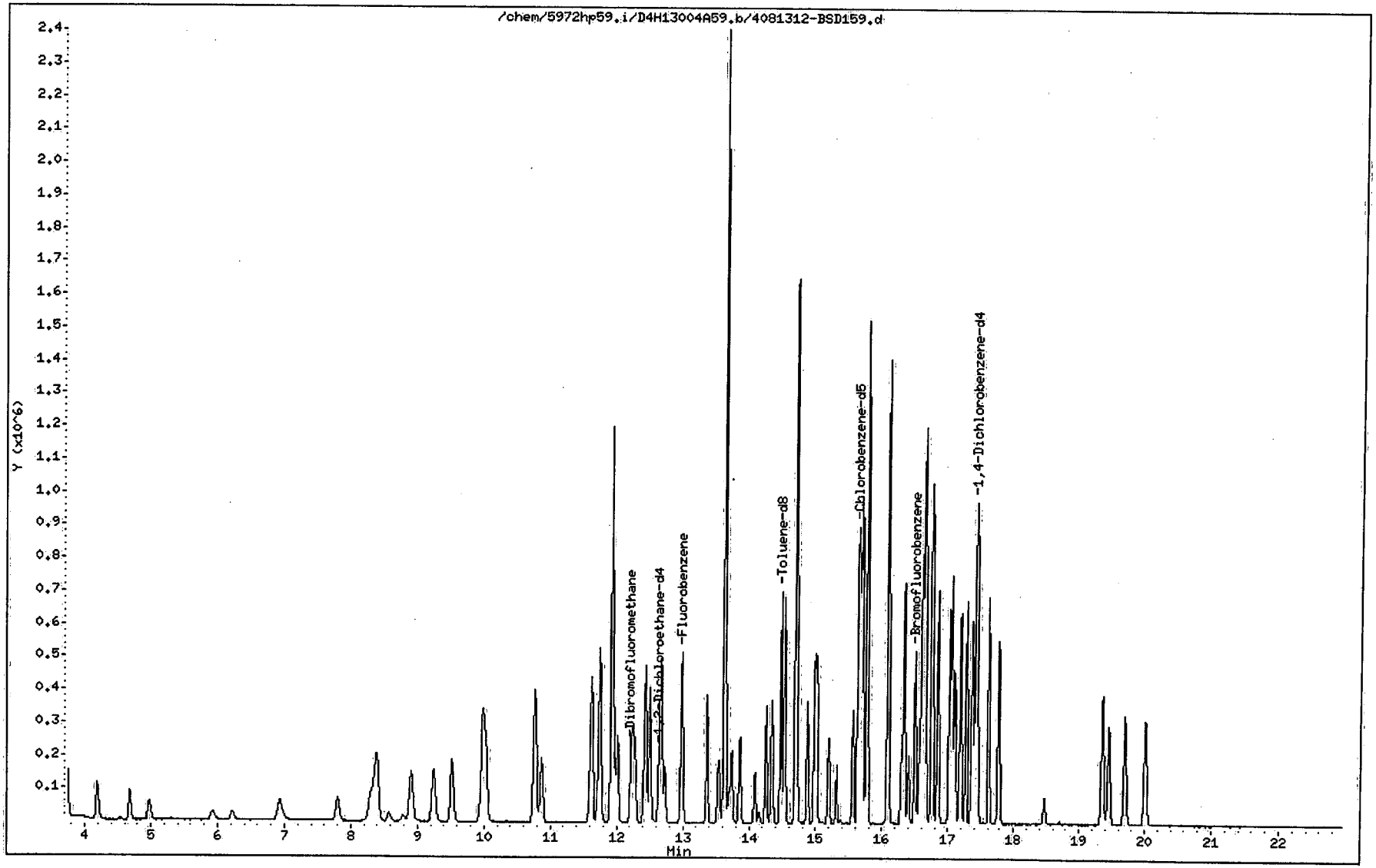
Data File: /chem/5972hp59.i/D4H13004A59.b/4081312-BSD159.d
Date : 13-AUG-2014 17:50
Client ID: VLCSDFX
Sample Info: 4081312-BSD1:JAO

Instrument: 5972hp59.i

Operator: JAO
Column diameter: 0.32

Column phase: SPB-624



8/14/2014

Data File: /chem/5972hp59.i/D4H13004A59.b/4081312-BSD159.d
Report Date: 14-Aug-2014 13:27

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp59.i/D4H13004A59.b/4081312-BSD159.d
Lab Smp Id: 4081312-BSD1 Client Smp ID: VLCSDFX
Inj Date : 13-AUG-2014 17:50
Operator : JAO Inst ID: 5972hp59.i
Smp Info : 4081312-BSD1:JAO
Misc Info : VLCSDFX
Comment :
Method : /chem/5972hp59.i/D4H13004A59.b/8260B_5ppbv5.m
Meth Date : 14-Aug-2014 13:27 ron Quant Type: ISTD
Cal Date : 11-AUG-2014 18:02 Cal File: 4H11002-CAL3R59.d
Als bottle: 7 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DC.sub
Target Version: 3.50
Processing Host: dante

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

Name	Value	Description
DF	1.00000	Dilution Factor
Ws	5.00000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Vt	5000.00000	
Va	100.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
* 1 Fluorobenzene	96	12.981	12.972	(1.000)	579617	250.000	
* 2 Chlorobenzene-d5	117	15.634	15.634	(1.000)	492193	250.000	
* 3 1,4-Dichlorobenzene-d4	152	17.419	17.419	(1.000)	250506	250.000	
$ 4 Dibromofluoromethane	113	12.212	12.212	(0.941)	156102	236.854	2368.54
$ 5 1,2-Dichloroethane-d4	65	12.636	12.636	(0.973)	128519	229.989	2299.89
$ 6 Toluene-d8	98	14.470	14.471	(0.926)	499072	248.307	2483.07
$ 7 Bromofluorobenzene	95	16.501	16.502	(0.947)	197436	246.842	2468.42
8 Dichlorodifluoromethane	85	4.185	4.185	(0.322)	181695	237.003	2370.03
9 Chloromethane	50	4.678	4.678	(0.360)	146863	221.185	2211.85
10 Vinyl Chloride	62	4.974	4.964	(0.383)	99780	249.137	2491.37
11 Bromomethane	94	5.920	5.931	(0.456)	43850	239.582	2395.82
12 Chloroethane	64	6.216	6.207	(0.479)	43813	261.171	2611.71
13 Trichlorofluoromethane	101	8.366	8.347	(0.644)	142129	224.875	2248.75

Roldan Hani 8/14/2014

Data File: /chem/5972hp59.i/D4H13004A59.b/4081312-BSD159.d
Report Date: 14-Aug-2014 13:27

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
14 Acrolein	56	8.218	8.199	(0.633)	7583	278.273	2782.73(R)
15 1,1,1-trichloro-2,2,2-trifluo	117	8.297	8.288	(0.639)	45468	214.427	2144.27
16 1,1,2-trichloro-1,2,2-trifluo	101	8.366	8.347	(0.644)	142129	224.875	2248.75
17 1,1-Dichloroethene	96	8.396	8.386	(0.647)	114672	242.480	2424.80
18 Acetone	43	8.573	8.564	(0.660)	62112	527.953	5279.53
19 Iodomethane	142	8.780	8.781	(0.676)	44705	183.551	1835.51
20 Carbon disulfide	76	8.908	8.889	(0.686)	443167	245.474	2454.74
21 3-Chloropropene	76	9.234	9.224	(0.711)	58973	281.189	2811.89
22 Acetonitrile	41	9.234	9.234	(0.711)	159710	266.818	2668.18
23 Methyl acetate	43	9.263	9.254	(0.714)	115921	222.304	2223.04
24 Methylene Chloride	84	9.520	9.510	(0.733)	148231	253.937	2539.37
25 Acrylonitrile	53	10.033	10.023	(0.773)	292095	2177.78	21777.8
26 Methyl-tert-butyl ether	73	9.963	9.954	(0.768)	298652	250.311	2503.11
28 trans-1,2-Dichloroethene	96	9.993	9.984	(0.770)	134811	252.893	2528.93
29 trans-1,2-DCE (part of total)	96	9.993	9.984	(0.770)	134811	252.893	2528.93
31 Isopropyl ether	45	10.762	10.763	(0.829)	396871	243.756	2437.56
32 1,1-Dichloroethane	63	10.752	10.743	(0.828)	234850	249.083	2490.83
33 Vinyl acetate	43	10.762	10.753	(0.829)	167837	226.611	2266.11(M)
34 Chloroprene	53	10.871	10.861	(0.837)	161305	253.774	2537.74
35 2-butanone	43	11.610	11.611	(0.894)	115114	548.480	5484.80
36 2,2-Dichloropropane	77	11.610	11.601	(0.894)	163602	233.810	2338.10
37 cis-1,2-Dichloroethene	96	11.620	11.621	(0.895)	145960	245.105	2451.05
38 cis-1,2-DCE (part of total)	96	11.620	11.621	(0.895)	145960	245.105	2451.05
39 Propionitrile	54	11.748	11.749	(0.905)	693266	12495.5	124955
40 Methacrylonitrile	41	11.926	11.916	(0.919)	701027	2423.53	24235.3
41 Bromochloromethane	128	11.946	11.936	(0.920)	65550	267.945	2679.45
42 Chloroform	83	12.015	12.015	(0.926)	240659	254.427	2544.27
43 1,1,1-Trichloroethane	97	12.251	12.242	(0.944)	185028	250.116	2501.16
44 Cyclohexane	56	12.281	12.271	(0.946)	112196	203.823	2038.23
46 1,1-dichloropropene	75	12.439	12.429	(0.958)	169985	251.734	2517.34
47 Isobutyl alcohol	43	12.498	12.498	(0.963)	298794	12801.1	128011
48 Carbon Tetrachloride	117	12.429	12.419	(0.957)	172525	249.221	2492.21
49 Benzene	78	12.665	12.666	(0.976)	529035	260.500	2605.00
50 1,2-Dichloroethane	62	12.725	12.725	(0.980)	148831	236.313	2363.13
51 Trichloroethene	130	13.366	13.356	(1.030)	154243	271.115	2711.15
52 Methylcyclohexane	83	13.543	13.534	(1.043)	101465	190.291	1902.91(R)
53 Methylmethacrylate	100	13.632	13.632	(1.050)	432890	2731.31	27313.1
54 1,2-Dichloropropane	63	13.612	13.613	(1.049)	122958	232.277	2322.77
55 1,4-dioxane	88	13.701	13.692	(1.055)	80367	13836.3	138363
56 Dibromomethane	174	13.740	13.741	(1.058)	92771	279.906	2799.06
57 Bromodichloromethane	83	13.859	13.849	(1.068)	186310	246.499	2464.99
58 cis-1,3-Dichloropropene	75	14.253	14.254	(1.098)	213237	259.561	2595.61
59 4-Methyl-2-pentanone	43	14.342	14.332	(0.917)	297048	618.740	6187.40
60 Toluene	92	14.529	14.530	(0.929)	331984	264.501	2645.01
61 Ethylmethacrylate	99	14.697	14.687	(0.940)	183711	1537.04	15370.4(R)
62 trans-1,3-Dichloropropene	75	14.717	14.707	(0.941)	185813	263.676	2636.76
63 1,1,2-Trichloroethane	97	14.874	14.865	(0.951)	123484	268.959	2689.59

Robin Hu 8/14/2014

Data File: /chem/5972hp59.i/D4H13004A59.b/4081312-BSD159.d
Report Date: 14-Aug-2014 13:27

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
64 2-hexanone	43	15.003	15.003	(0.960)	212289	604.065	6040.65
65 2-chloroethyl vinyl ether	63	14.085	14.076	(1.085)	58158	254.852	2548.52
66 1,3-Dichloropropane	76	15.012	15.013	(0.960)	201051	261.740	2617.40
67 Tetrachloroethene	164	14.983	14.973	(0.958)	117804	269.221	2692.21
68 Dibromochloromethane	129	15.200	15.190	(0.972)	157013	263.485	2634.85
69 1,2-Dibromoethane	107	15.318	15.309	(0.980)	138203	268.090	2680.90
70 1-Chlorohexane	55	15.555	15.555	(0.995)	84798	235.033	2350.33
71 Chlorobenzene	112	15.663	15.664	(1.002)	415522	269.862	2698.62
72 Ethylbenzene	106	15.693	15.693	(1.004)	194422	266.530	2665.30
73 1,1,1,2-Tetrachloroethane	131	15.703	15.703	(1.004)	145577	267.576	2675.76
74 m,p-Xylene	106	15.772	15.772	(1.009)	498779	539.026	5390.26
75 m,p-Xylene (part of total)	106	15.772	15.772	(1.009)	498779	539.026	5390.26
76 o-Xylene	106	16.087	16.088	(1.029)	250336	279.721	2797.21
77 o-Xylene (part of total)	106	16.087	16.088	(1.029)	250336	279.721	2797.21
78 Styrene	104	16.087	16.088	(1.029)	415376	278.543	2785.43
79 Bromoform	173	16.294	16.295	(0.935)	107051	275.569	2755.69
80 Isopropyl Benzene	105	16.334	16.334	(1.045)	588871	275.643	2756.43
81 1,1,2,2-Tetrachloroethane	83	16.570	16.571	(0.951)	183675	256.554	2565.54
82 trans-1,4-dichloro-2-butene	53	16.600	16.601	(1.062)	168625	1015.74	10157.4
83 1,2,3-Trichloropropane	110	16.640	16.630	(1.064)	43776	267.491	2674.91
84 Bromobenzene	156	16.659	16.660	(1.066)	181532	281.285	2812.85
85 n-Propyl Benzene	91	16.640	16.640	(0.955)	776854	253.998	2539.98
86 1,3,5-Trimethyl Benzene	105	16.748	16.748	(0.961)	503746	275.279	2752.79
87 2-Chlorotoluene	91	16.768	16.768	(0.963)	503435	268.497	2684.97
88 4-Chlorotoluene	91	16.847	16.847	(0.967)	466892	265.639	2656.39
89 tert-Butyl Benzene	119	17.014	17.015	(0.977)	465971	261.795	2617.95
90 1,2,4-Trimethyl Benzene	105	17.054	17.054	(0.979)	497022	262.695	2626.95
91 Pentachloroethane	167	17.103	17.103	(0.982)	103016	277.738	2777.38
92 sec-Butyl Benzene	105	17.192	17.192	(0.987)	605454	247.602	2476.02
93 p-Isopropyl Toluene	119	17.271	17.271	(0.991)	501716	254.019	2540.19
94 1,3-Dichlorobenzene	146	17.369	17.370	(0.997)	329524	269.417	2694.17
95 1,4-Dichlorobenzene	146	17.438	17.439	(1.001)	341826	272.430	2724.30
96 n-Butyl Benzene	91	17.616	17.616	(1.011)	495021	256.607	2566.07
97 1,2-Dichlorobenzene	146	17.774	17.774	(1.020)	311524	276.684	2766.84
98 1,2-Dibromo-3-Chloropropane	157	18.484	18.474	(1.061)	35920	290.993	2909.93
99 1,2,4-Trichlorobenzene	180	19.361	19.362	(1.112)	204782	269.753	2697.53
100 Hexachlorobutadiene	225	19.450	19.450	(1.117)	92627	239.978	2399.78
101 Naphthalene	128	19.697	19.697	(1.131)	430352	271.097	2710.97
102 1,2,3-Trichlorobenzene	180	20.012	20.003	(1.149)	185653	267.796	2677.96
M 103 1,2-Dichloroethene (total)	96				280771	497.567	4975.67
M 104 Xylene (total)	106				749115	818.747	8187.47

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Robin Ha 8/14/2014

Data File: /chem/5972hp59.i/D4H13004A59.b/4081312-BSD159.d
Report Date: 14-Aug-2014 13:27

CompuChem

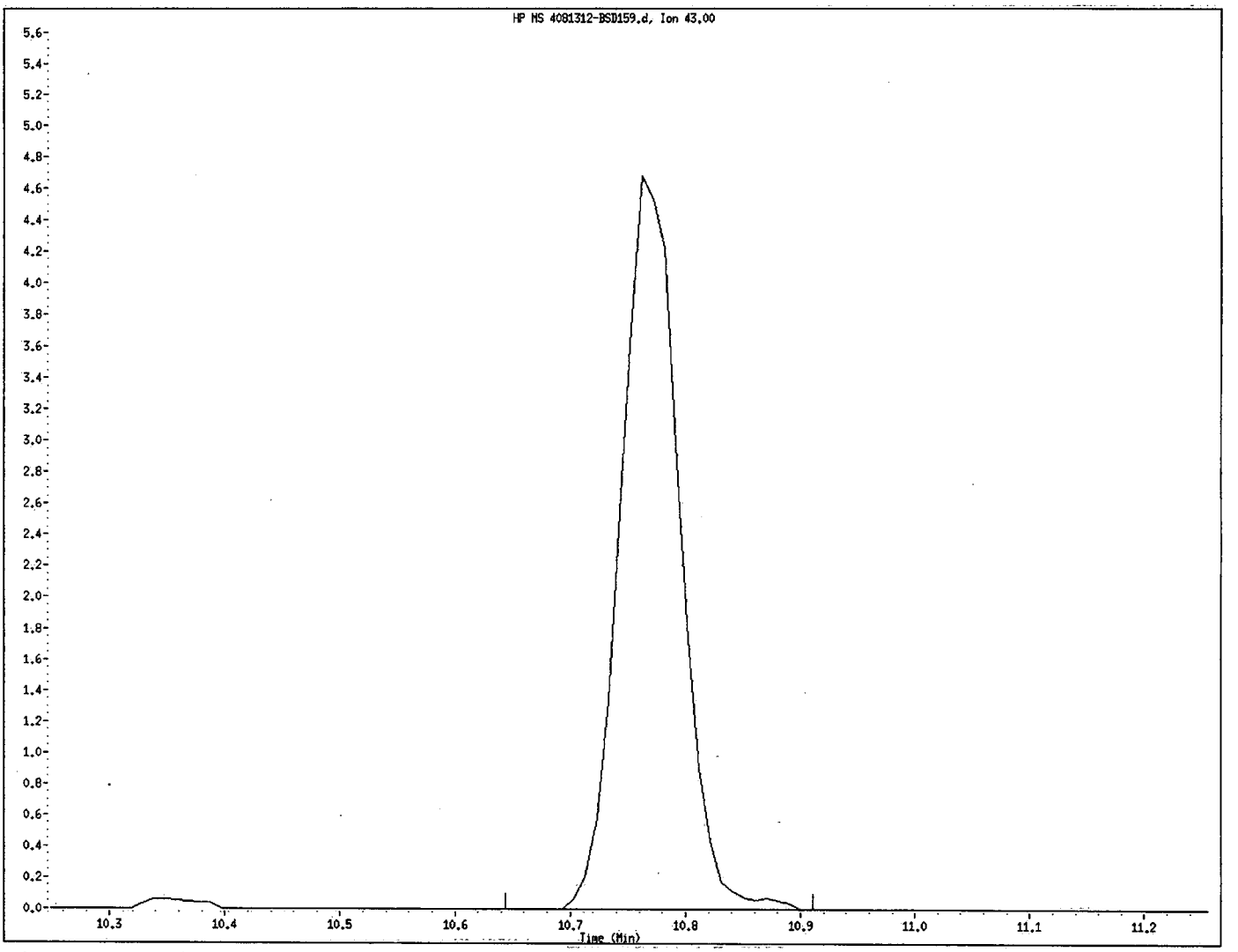
SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp59.i/D4H13004A59.b/4081312-BSD159.d
Lab Smp Id: 4081312-BSD1 Client Smp ID: VLCSDFX
Inj Date : 13-AUG-2014 17:50
Operator : JAO Inst ID: 5972hp59.i
Smp Info : 4081312-BSD1:JAO
Misc Info : VLCSDFX
Comment :
Method : /chem/5972hp59.i/D4H13004A59.b/8260B_5ppbv5.m
Meth Date : 14-Aug-2014 13:27 ron Quant Type: ISTD
Cal Date : 11-AUG-2014 18:02 Cal File: 4H11002-CAL3R59.d
Als bottle: 7 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DC.sub
Target Version: 3.50
Processing Host: dante

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

8/14/2014

Vinyl acetate CAS Number 108-05-4 Area = 167837 Manually integrated



File name: /chem/5972hp59.i/D4H13004A59.b/4081312-BSD159.d
Client ID: VLCSDFX
Instrument ID: 5972hp59.i
Injection Date and Time: 13-AUG-2014 17:50
Retention Time: 10.76
Operator ID: JAO

8/14/2014

ANALYSIS DATA SHEET

SW 8260B

VLCSGA

Client: WESTON SOLUTIONS SDG: 1408028 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Matrix: Soil Med Extraction: EPA 5030B/5035A File ID: 4081503-BS159.d QC Type: LCS

Initial/Final: 5g / 5mL Lab ID: 4081503-BS1 Column ID: SPB-624

Dilution: 50 pH: Prepared: 08/15/14 14:17

% Moisture: NA Analyzed: 08/15/14 14:58

Batch: 4081503 Sequence: 4H15005 Calibration: 4081203 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC.(ug/kg wet)	MDL	RL	Q
75-71-8	Dichlorodifluoromethane	2152	22	250	
74-87-3	Chloromethane	1760	16	250	B
75-01-4	Vinyl chloride	2340	21	250	
74-83-9	Bromomethane	2455	29	250	
75-00-3	Chloroethane	2457	36	250	
75-69-4	Trichlorofluoromethane	2249	15	250	
75-35-4	1,1-Dichloroethene	2273	55	250	
67-64-1	Acetone	7274	250	630	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2249	26	250	
75-15-0	Carbon disulfide	2057	7.0	250	
79-20-9	Methyl acetate	1756	70	250	
75-09-2	Methylene chloride	2462	25	250	B
156-60-5	trans-1,2-Dichloroethene	2310	50	250	
1634-04-4	Methyl tert-butyl ether	2596	20	250	
75-34-3	1,1-Dichloroethane	2321	24	250	
156-59-2	cis-1,2-Dichloroethene	2537	21	250	
78-93-3	2-Butanone	6735	65	630	
67-66-3	Chloroform	2570	16	250	
71-55-6	1,1,1-Trichloroethane	2331	25	250	
110-82-7	Cyclohexane	1813	16	250	
56-23-5	Carbon tetrachloride	2261	23	250	
107-06-2	1,2-Dichloroethane	2532	14	250	
71-43-2	Benzene	2372	16	250	
79-01-6	Trichloroethene	2555	16	250	
108-87-2	Methylcyclohexane	1865	14	250	
78-87-5	1,2-Dichloropropane	2261	32	250	
75-27-4	Bromodichloromethane	2508	19	250	
10061-01-5	cis-1,3-Dichloropropene	1932	20	250	
108-10-1	4-Methyl-2-pentanone	6124	65	630	
108-88-3	Toluene	2477	17	250	B
10061-02-6	trans-1,3-Dichloropropene	1959	21	250	
79-00-5	1,1,2-Trichloroethane	2706	36	250	
127-18-4	Tetrachloroethene	2605	80	250	
591-78-6	2-Hexanone	5826	50	630	

Environmental Testing Laboratories CompuChem A Division Of Liberty Analytical Corp.

ACCREDITED IN ACCORDANCE WITH nelac

ANALYSIS DATA SHEET

SW 8260B

VLCSGA

Client: WESTON SOLUTIONS SDG: 1408028 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Matrix: Soil Med Extraction: EPA 5030B/5035A File ID: 4081503-BS159.d QC Type: LCS

Initial/Final: 5g / 5mL Lab ID: 4081503-BS1 Column ID: SPB-624

Dilution: 50 pH: Prepared: 08/15/14 14:17

% Moisture: NA Analyzed: 08/15/14 14:58

Batch: 4081503 Sequence: 4H15005 Calibration: 4081203 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC.(ug/kg wet)	MDL	RL	Q
124-48-1	Dibromochloromethane	2746	28	250	
106-93-4	1,2-Dibromoethane	2808	11	250	
108-90-7	Chlorobenzene	2468	13	250	
100-41-4	Ethylbenzene	2446	29	250	
179601-23-1	m,p-Xylene	5034	7.0	500	
95-47-6	o-Xylene	2519	19	250	
100-42-5	Styrene	2380	4.0	250	
75-25-2	Bromoform	2801	55	250	
98-82-8	Isopropylbenzene	2499	11	250	
79-34-5	1,1,2,2-Tetrachloroethane	2662	19	250	
541-73-1	1,3-Dichlorobenzene	2330	14	250	
106-46-7	1,4-Dichlorobenzene	2342	11	250	
95-50-1	1,2-Dichlorobenzene	2476	18	250	
96-12-8	1,2-Dibromo-3-chloropropane	3035	33	250	
120-82-1	1,2,4-Trichlorobenzene	2224	18	250	
1330-20-7	Xylenes (total)	7553	7.0	250	

SURROGATE RECOVERY RESULTS	ADDED (ug/kg wet)	CONC (ug/kg wet)	% REC	QC LIMITS	Q
Dibromofluoromethane	2500	2451	98	71 - 141	D
1,2-Dichloroethane-d4	2500	2434	97	70 - 139	D
Toluene-d8	2500	2289	92	72 - 123	D
Bromofluorobenzene	2500	2311	92	65 - 131	D

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ACCREDITED IN ACCORDANCE WITH nelac

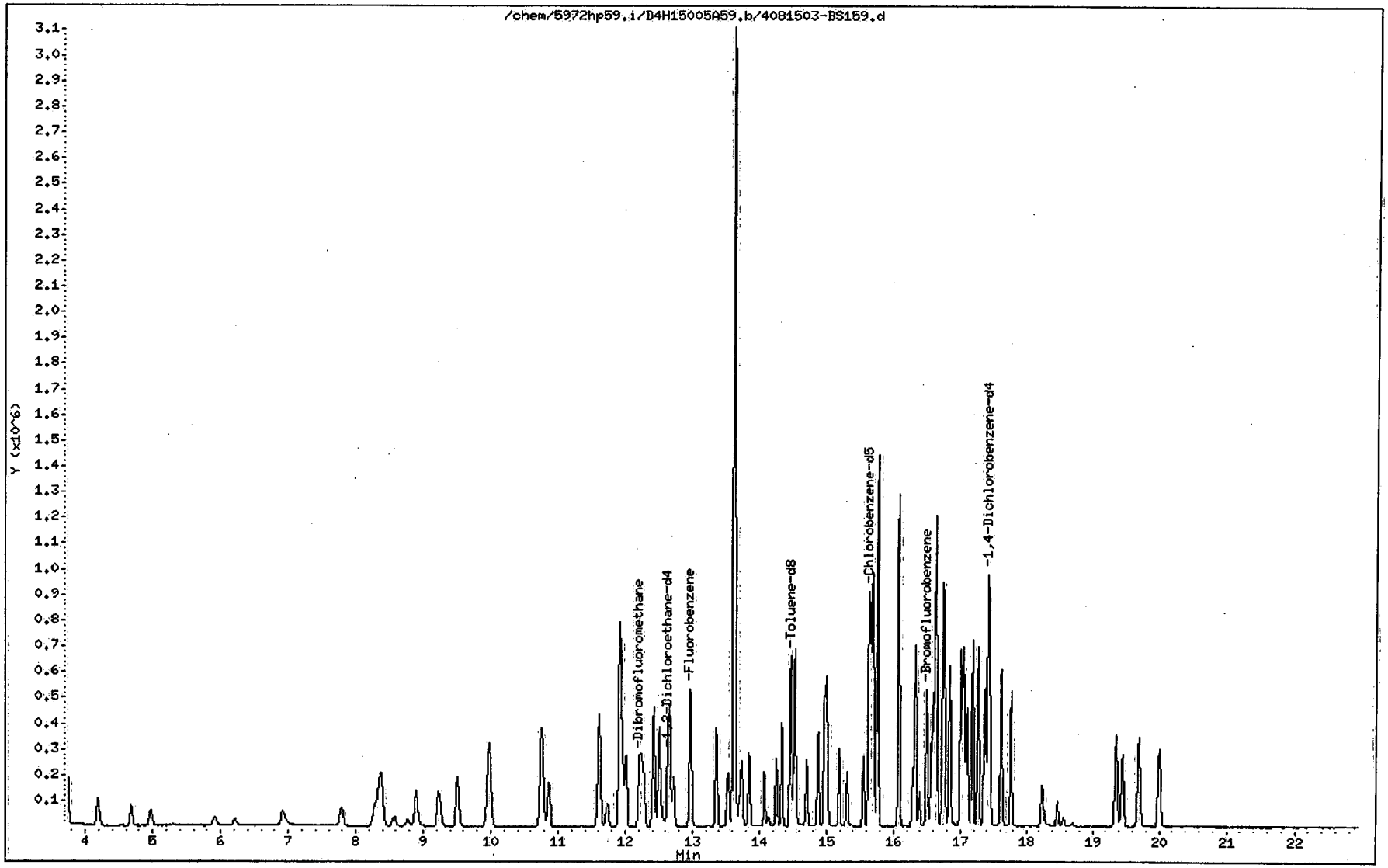
Data File: /chem/5972hp59.i/D4H15005A59.b/4081503-BS159.d
Date : 15-AUG-2014 14:58
Client ID: VLCSGA
Sample Info: 4081503-BS1:JAO

Instrument: 5972hp59.i

Operator: JAO

Column phase: SPB-624

Column diameter: 0.32



8/18/2014

Data File: /chem/5972hp59.i/D4H15005A59.b/4081503-BS159.d
Report Date: 18-Aug-2014 15:41

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp59.i/D4H15005A59.b/4081503-BS159.d
Lab Smp Id: 4081503-BS1 Client Smp ID: VLCSGA
Inj Date : 15-AUG-2014 14:58
Operator : JAO Inst ID: 5972hp59.i
Smp Info : 4081503-BS1:JAO
Misc Info : VLCSGA
Comment :
Method : /chem/5972hp59.i/D4H15005A59.b/8260B_5ppbv5.m
Meth Date : 18-Aug-2014 15:41 ron Quant Type: ISTD
Cal Date : 11-AUG-2014 18:02 Cal File: 4H11002-CAL3R59.d
Als bottle: 7 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DC.sub
Target Version: 3.50
Processing Host: dante

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

Name	Value	Description
DF	1.00000	Dilution Factor
Ws	5.00000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Vt	5000.00000	
Va	100.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
* 1 Fluorobenzene	96	12.979	12.972	(1.000)	610997	250.000	
* 2 Chlorobenzene-d5	117	15.632	15.634	(1.000)	523300	250.000	
* 3 1,4-Dichlorobenzene-d4	152	17.407	17.419	(1.000)	270311	250.000	
$ 4 Dibromofluoromethane	113	12.210	12.212	(0.941)	170260	245.068	2450.68
$ 5 1,2-Dichloroethane-d4	65	12.634	12.636	(0.973)	143396	243.432	2434.32
$ 6 Toluene-d8	98	14.468	14.471	(0.926)	489237	228.944	2289.44
$ 7 Bromofluorobenzene	95	16.500	16.502	(0.948)	199484	231.129	2311.29
8 Dichlorodifluoromethane	85	4.183	4.185	(0.322)	173911	215.199	2151.99
9 Chloromethane	50	4.676	4.678	(0.360)	123181	175.990	1759.90
10 Vinyl Chloride	62	4.972	4.964	(0.383)	98789	233.994	2339.94
11 Bromomethane	94	5.909	5.931	(0.455)	47367	245.506	2455.06
12 Chloroethane	64	6.215	6.207	(0.479)	43446	245.682	2456.82
13 Trichlorofluoromethane	101	8.355	8.347	(0.644)	149811	224.856	2248.56
14 Acrolein	56	Compound Not Detected.					

Roldan Hani 8/18/2014

Data File: /chem/5972hp59.i/D4H15005A59.b/4081503-BS159.d
Report Date: 18-Aug-2014 15:41

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
15 1,1,1-trichloro-2,2,2-trifluo	117	8.286	8.288	(0.638)	45757	204.707	2047.07
16 1,1,2-trichloro-1,2,2-trifluo	101	8.355	8.347	(0.644)	149811	224.856	2248.56
17 1,1-Dichloroethene	96	8.384	8.386	(0.646)	113310	227.295	2272.95
18 Acetone	43	8.571	8.564	(0.660)	90214	727.437	7274.37
19 Iodomethane	142	8.769	8.781	(0.676)	59310	238.659	2386.59
20 Carbon disulfide	76	8.897	8.889	(0.685)	391476	205.705	2057.05
21 3-Chloropropene	76	9.232	9.224	(0.711)	54947	248.537	2485.37
22 Acetonitrile	41	9.222	9.234	(0.711)	133738	211.953	2119.53
23 Methyl acetate	43	9.252	9.254	(0.713)	96533	175.616	1756.16
24 Methylene Chloride	84	9.508	9.510	(0.733)	151473	246.163	2461.63
25 Acrylonitrile	53	10.021	10.023	(0.772)	23002	97.7665	977.665(aR)
26 Methyl-tert-butyl ether	73	9.952	9.954	(0.767)	326461	259.566	2595.66
28 trans-1,2-Dichloroethene	96	9.982	9.984	(0.769)	129835	231.049	2310.49
29 trans-1,2-DCE (part of total)	96	9.982	9.984	(0.769)	129835	231.049	2310.49
31 Isopropyl ether	45	10.761	10.763	(0.829)	386476	225.180	2251.80
32 1,1-Dichloroethane	63	10.751	10.743	(0.828)	230707	232.122	2321.22
33 Vinyl acetate	43	10.761	10.753	(0.829)	163820	209.827	2098.27(M)
34 Chloroprene	53	10.859	10.861	(0.837)	147289	219.823	2198.23
35 2-butanone	43	11.609	11.611	(0.894)	148997	673.461	6734.61
36 2,2-Dichloropropane	77	11.599	11.601	(0.894)	117320	159.056	1590.56(R)
37 cis-1,2-Dichloroethene	96	11.619	11.621	(0.895)	159249	253.686	2536.86
38 cis-1,2-DCE (part of total)	96	11.619	11.621	(0.895)	159249	253.686	2536.86
39 Propionitrile	54	11.747	11.749	(0.905)	112899	1930.40	19304.0(R)
40 Methacrylonitrile	41	11.914	11.916	(0.918)	531895	1744.39	17443.9
41 Bromochloromethane	128	11.934	11.936	(0.919)	74318	288.183	2881.83
42 Chloroform	83	12.013	12.015	(0.926)	256292	257.039	2570.39
43 1,1,1-Trichloroethane	97	12.240	12.242	(0.943)	181803	233.135	2331.35
44 Cyclohexane	56	12.269	12.271	(0.945)	105194	181.288	1812.88
46 1,1-dichloropropene	75	12.427	12.429	(0.957)	160780	225.873	2258.73
47 Isobutyl alcohol	43	12.506	12.498	(0.964)	329922	13408.7	134087
48 Carbon Tetrachloride	117	12.417	12.419	(0.957)	165006	226.118	2261.18
49 Benzene	78	12.664	12.666	(0.976)	507759	237.182	2371.82
50 1,2-Dichloroethane	62	12.723	12.725	(0.980)	168083	253.175	2531.75
51 Trichloroethene	130	13.354	13.356	(1.029)	153207	255.463	2554.63
52 Methylcyclohexane	83	13.532	13.534	(1.043)	104845	186.532	1865.32(R)
53 Methylmethacrylate	100	13.630	13.632	(1.050)	629878	3770.10	37701.0(R)
54 1,2-Dichloropropane	63	13.611	13.613	(1.049)	126159	226.084	2260.84
55 1,4-dioxane	88	13.699	13.692	(1.055)	92536	15113.2	151132
56 Dibromomethane	174	13.739	13.741	(1.059)	107918	308.884	3088.84
57 Bromodichloromethane	83	13.847	13.849	(1.067)	199831	250.810	2508.10
58 cis-1,3-Dichloropropene	75	14.252	14.254	(1.098)	167310	193.197	1931.97(R)
59 4-Methyl-2-pentanone	43	14.330	14.332	(0.917)	312573	612.376	6123.76
60 Toluene	92	14.528	14.530	(0.929)	330556	247.708	2477.08
61 Ethylmethacrylate	99	14.685	14.687	(0.939)	2238	218.404	2184.04(RM)
62 trans-1,3-Dichloropropene	75	14.705	14.707	(0.941)	146776	195.900	1959.00
63 1,1,2-Trichloroethane	97	14.873	14.865	(0.951)	132067	270.554	2705.54
64 2-hexanone	43	15.001	15.003	(0.960)	217676	582.574	5825.74

8/18/2014

Data File: /chem/5972hp59.i/D4H15005A59.b/4081503-BS159.d
Report Date: 18-Aug-2014 15:41

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
65 2-chloroethyl vinyl ether	63	14.074	14.076	(1.084)	87031	361.788	3617.88
66 1,3-Dichloropropane	76	15.011	15.013	(0.960)	228946	280.337	2803.37
67 Tetrachloroethene	164	14.971	14.973	(0.958)	121199	260.515	2605.15
68 Dibromochloromethane	129	15.188	15.190	(0.972)	173998	274.631	2746.31
69 1,2-Dibromoethane	107	15.307	15.309	(0.979)	153879	280.754	2807.54
70 1-Chlorohexane	55	15.553	15.555	(0.995)	59511	155.140	1551.40
71 Chlorobenzene	112	15.662	15.664	(1.002)	403978	246.769	2467.69
72 Ethylbenzene	106	15.681	15.693	(1.003)	189679	244.571	2445.71
73 1,1,1,2-Tetrachloroethane	131	15.701	15.703	(1.004)	153040	264.572	2645.72
74 m,p-Xylene	106	15.770	15.772	(1.009)	495262	503.409	5034.09
75 m,p-Xylene (part of total)	106	15.770	15.772	(1.009)	495262	503.409	5034.09
76 o-Xylene	106	16.076	16.088	(1.028)	239684	251.899	2518.99
77 o-Xylene (part of total)	106	16.076	16.088	(1.028)	239684	251.899	2518.99
78 Styrene	104	16.086	16.088	(1.029)	377399	238.032	2380.32
79 Bromoform	173	16.293	16.295	(0.936)	117430	280.139	2801.39
80 Isopropyl Benzene	105	16.322	16.334	(1.044)	567723	249.947	2499.47
81 1,1,2,2-Tetrachloroethane	83	16.559	16.571	(0.951)	205673	266.232	2662.32
82 trans-1,4-dichloro-2-butene	53	16.599	16.601	(1.062)	102765	582.222	5822.22
83 1,2,3-Trichloropropane	110	16.628	16.630	(1.064)	50672	291.223	2912.23
84 Bromobenzene	156	16.648	16.660	(1.065)	186434	271.709	2717.09
85 n-Propyl Benzene	91	16.628	16.640	(0.955)	741491	224.673	2246.73
86 1,3,5-Trimethyl Benzene	105	16.746	16.748	(0.962)	460964	233.444	2334.44
87 2-Chlorotoluene	91	16.766	16.768	(0.963)	455678	225.220	2252.20
88 4-Chlorotoluene	91	16.845	16.847	(0.968)	438723	231.324	2313.24
89 tert-Butyl Benzene	119	17.013	17.015	(0.977)	478257	249.011	2490.11
90 1,2,4-Trimethyl Benzene	105	17.052	17.054	(0.980)	476646	233.467	2334.67
91 Pentachloroethane	167	17.101	17.103	(0.982)	104654	261.481	2614.81
92 sec-Butyl Benzene	105	17.180	17.192	(0.987)	651597	246.949	2469.49
93 p-Isopropyl Toluene	119	17.269	17.271	(0.992)	514908	241.597	2415.97
94 1,3-Dichlorobenzene	146	17.368	17.370	(0.998)	307536	233.018	2330.18
95 1,4-Dichlorobenzene	146	17.437	17.439	(1.002)	317102	234.209	2342.09
96 n-Butyl Benzene	91	17.614	17.616	(1.012)	452412	217.337	2173.37
97 1,2-Dichlorobenzene	146	17.772	17.774	(1.021)	300766	247.557	2475.57
98 1,2-Dibromo-3-Chloropropane	157	18.472	18.474	(1.061)	40420	303.457	3034.57
99 1,2,4-Trichlorobenzene	180	19.350	19.362	(1.112)	182162	222.375	2223.75
100 Hexachlorobutadiene	225	19.448	19.450	(1.117)	89272	214.842	2148.42
101 Naphthalene	128	19.695	19.697	(1.131)	460052	268.573	2685.73
102 1,2,3-Trichlorobenzene	180	20.001	20.003	(1.149)	170821	228.348	2283.48
M 103 1,2-Dichloroethene (total)	96				289084	485.988	4859.88
M 104 Xylene (total)	106				734946	755.308	7553.08

QC Flag Legend

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

8/18/2014

Data File: /chem/5972hp59.i/D4H15005A59.b/4081503-BS159.d
Report Date: 18-Aug-2014 15:41

CompuChem

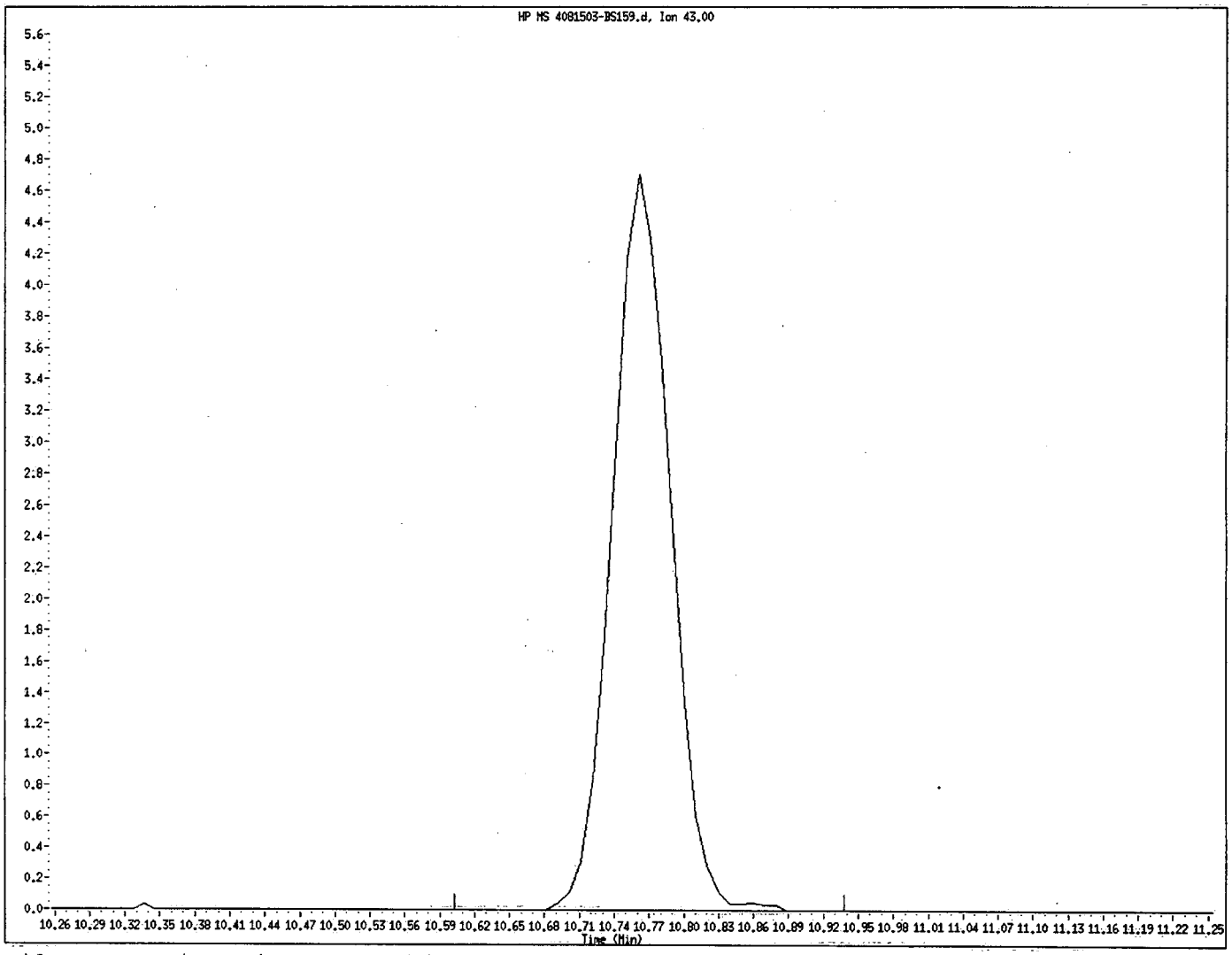
SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp59.i/D4H15005A59.b/4081503-BS159.d
Lab Smp Id: 4081503-BS1 Client Smp ID: VLCSGA
Inj Date : 15-AUG-2014 14:58
Operator : JAO Inst ID: 5972hp59.i
Smp Info : 4081503-BS1:JAO
Misc Info : VLCSGA
Comment :
Method : /chem/5972hp59.i/D4H15005A59.b/8260B_5ppbv5.m
Meth Date : 18-Aug-2014 15:41 ron Quant Type: ISTD
Cal Date : 11-AUG-2014 18:02 Cal File: 4H11002-CAL3R59.d
Als bottle: 7 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DC.sub
Target Version: 3.50
Processing Host: dante

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

8/18/2014

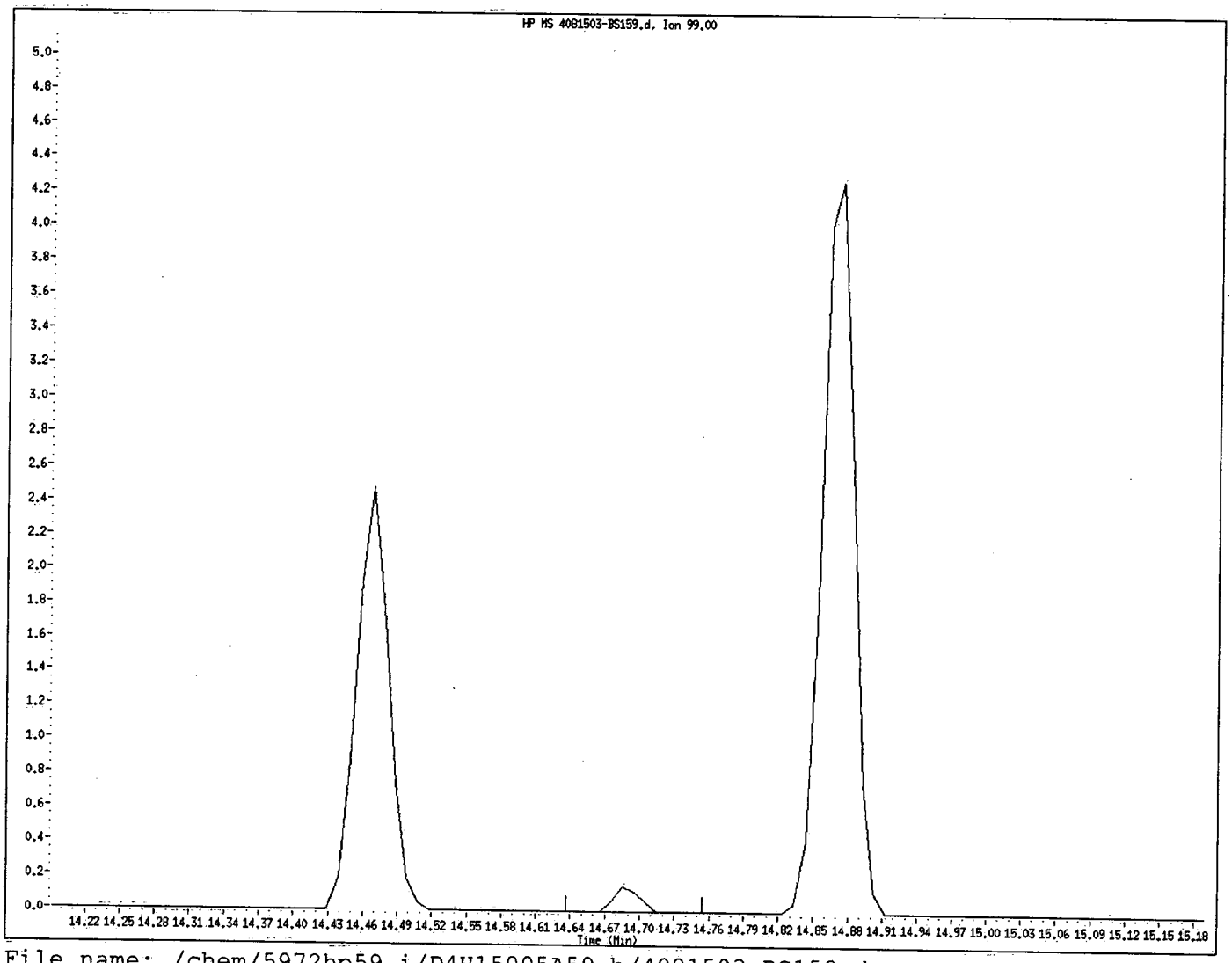
Vinyl acetate CAS Number 108-05-4 Area = 163820 Manually integrated



File name: /chem/5972hp59.i/D4H15005A59.b/4081503-BS159.d
Client ID: VLCSGA
Instrument ID: 5972hp59.i
Injection Date and Time: 15-AUG-2014 14:58
Retention Time: 10.76
Operator ID: JAO

8/18/2014

Ethylmethacrylate CAS Number 97-63-2 Area = 2238 Manually integrated



File name: /chem/5972hp59.i/D4H15005A59.b/4081503-BS159.d
Client ID: VLCSGA
Instrument ID: 5972hp59.i
Injection Date and Time: 15-AUG-2014 14:58
Retention Time: 14.69
Operator ID: JAO

Roldw Ha 8/18/2014

ANALYSIS DATA SHEET
SW 8260B

VLCSDGA

Client: WESTON SOLUTIONS SDG: 1408028 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Matrix: Soil Med Extraction: EPA 5030B/5035A File ID: 4081503-BSD159.d QC Type: LCS Dup

Initial/Final: 5g / 5mL Lab ID: 4081503-BSD1 Column ID: SPB-624

Dilution: 50 pH: Prepared: 08/15/14 14:17

% Moisture: NA Analyzed: 08/15/14 15:29

Batch: 4081503 Sequence: 4H15005 Calibration: 4081203 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC.(ug/kg wet)	MDL	RL	Q
75-71-8	Dichlorodifluoromethane	2243	22	250	
74-87-3	Chloromethane	2023	16	250	B
75-01-4	Vinyl chloride	2401	21	250	
74-83-9	Bromomethane	1779	29	250	
75-00-3	Chloroethane	2367	36	250	
75-69-4	Trichlorofluoromethane	2486	15	250	
75-35-4	1,1-Dichloroethene	2468	55	250	
67-64-1	Acetone	6117	250	630	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2486	26	250	
75-15-0	Carbon disulfide	2228	7.0	250	
79-20-9	Methyl acetate	1591	70	250	
75-09-2	Methylene chloride	2538	25	250	B
156-60-5	trans-1,2-Dichloroethene	2390	50	250	
1634-04-4	Methyl tert-butyl ether	2587	20	250	
75-34-3	1,1-Dichloroethane	2463	24	250	
156-59-2	cis-1,2-Dichloroethene	2519	21	250	
78-93-3	2-Butanone	5696	65	630	
67-66-3	Chloroform	2522	16	250	
71-55-6	1,1,1-Trichloroethane	2488	25	250	
110-82-7	Cyclohexane	1965	16	250	
56-23-5	Carbon tetrachloride	2448	23	250	
107-06-2	1,2-Dichloroethane	2545	14	250	
71-43-2	Benzene	2493	16	250	
79-01-6	Trichloroethene	2637	16	250	
108-87-2	Methylcyclohexane	1907	14	250	
78-87-5	1,2-Dichloropropane	2367	32	250	
75-27-4	Bromodichloromethane	2657	19	250	
10061-01-5	cis-1,3-Dichloropropene	1996	20	250	
108-10-1	4-Methyl-2-pentanone	5591	65	630	
108-88-3	Toluene	2376	17	250	B
10061-02-6	trans-1,3-Dichloropropene	1762	21	250	
79-00-5	1,1,2-Trichloroethane	2677	36	250	
127-18-4	Tetrachloroethene	2569	80	250	
591-78-6	2-Hexanone	4728	50	630	

Environmental Testing Laboratories CompuChem A Division Of Liberty Analytical Corp.

ACCREDITED IN ACCORDANCE WITH nelac

ANALYSIS DATA SHEET
SW 8260B

VLCSDGA

Client: WESTON SOLUTIONS SDG: 1408028 Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ

Matrix: Soil Med Extraction: EPA 5030B/5035A File ID: 4081503-BSD159.d QC Type: LCS Dup

Initial/Final: 5g / 5mL Lab ID: 4081503-BSD1 Column ID: SPB-624

Dilution: 50 pH: Prepared: 08/15/14 14:17

% Moisture: NA Analyzed: 08/15/14 15:29

Batch: 4081503 Sequence: 4H15005 Calibration: 4081203 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC.(ug/kg wet)	MDL	RL	Q
124-48-1	Dibromochloromethane	2730	28	250	
106-93-4	1,2-Dibromoethane	2659	11	250	
108-90-7	Chlorobenzene	2406	13	250	
100-41-4	Ethylbenzene	2322	29	250	
179601-23-1	m,p-Xylene	4434	7.0	500	
95-47-6	o-Xylene	2469	19	250	
100-42-5	Styrene	2319	4.0	250	
75-25-2	Bromoform	2776	55	250	
98-82-8	Isopropylbenzene	2564	11	250	
79-34-5	1,1,2,2-Tetrachloroethane	2461	19	250	
541-73-1	1,3-Dichlorobenzene	2414	14	250	
106-46-7	1,4-Dichlorobenzene	2275	11	250	
95-50-1	1,2-Dichlorobenzene	2494	18	250	
96-12-8	1,2-Dibromo-3-chloropropane	2939	33	250	
120-82-1	1,2,4-Trichlorobenzene	2094	18	250	
1330-20-7	Xylenes (total)	6904	7.0	250	

SURROGATE RECOVERY RESULTS	ADDED (ug/kg wet)	CONC (ug/kg wet)	% REC	QC LIMITS	Q
Dibromofluoromethane	2500	2445	98	71 - 141	D
1,2-Dichloroethane-d4	2500	2304	92	70 - 139	D
Toluene-d8	2500	2284	91	72 - 123	D
Bromofluorobenzene	2500	2367	95	65 - 131	D

Environmental Testing Laboratories CompuChem A Division Of Liberty Analytical Corp.

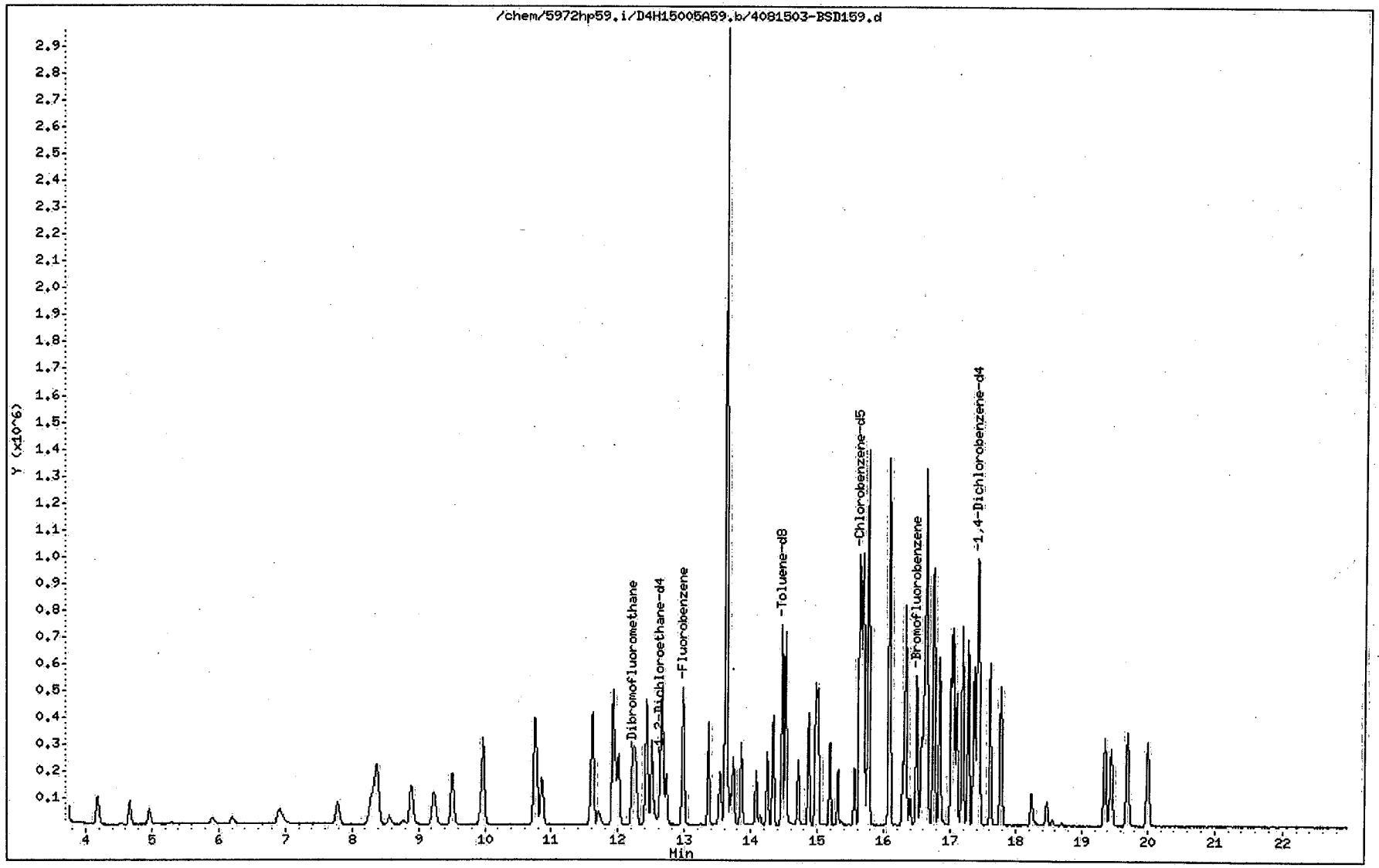
ACCREDITED IN ACCORDANCE WITH nelac

Data File: /chem/5972hp59.i/D4H15005A59.b/4081503-BSD159.d
Date : 15-AUG-2014 15:29
Client ID: VLCSDGA
Sample Info: 4081503-BSD1:JAO

Column phase: SPB-624

Instrument: 5972hp59.i

Operator: JAO
Column diameter: 0.32



8/18/2014

Data File: /chem/5972hp59.i/D4H15005A59.b/4081503-BSD159.d
Report Date: 18-Aug-2014 15:41

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp59.i/D4H15005A59.b/4081503-BSD159.d
Lab Smp Id: 4081503-BSD1 Client Smp ID: VLCSDGA
Inj Date : 15-AUG-2014 15:29
Operator : JAO Inst ID: 5972hp59.i
Smp Info : 4081503-BSD1:JAO
Misc Info : VLCSDGA
Comment :
Method : /chem/5972hp59.i/D4H15005A59.b/8260B_5ppbv5.m
Meth Date : 18-Aug-2014 15:41 ron Quant Type: ISTD
Cal Date : 11-AUG-2014 18:02 Cal File: 4H11002-CAL3R59.d
Als bottle: 8 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DC.sub
Target Version: 3.50
Processing Host: dante

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

Name	Value	Description
DF	1.00000	Dilution Factor
Ws	5.00000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Vt	5000.00000	
Va	100.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
* 1 Fluorobenzene	96	12.976	12.972	(1.000)	605116	250.000	
* 2 Chlorobenzene-d5	117	15.639	15.634	(1.000)	560549	250.000	
* 3 1,4-Dichlorobenzene-d4	152	17.414	17.419	(1.000)	280421	250.000	
$ 4 Dibromofluoromethane	113	12.207	12.212	(0.941)	168236	244.508	2445.08
$ 5 1,2-Dichloroethane-d4	65	12.631	12.636	(0.973)	134399	230.376	2303.76
$ 6 Toluene-d8	98	14.465	14.471	(0.925)	522770	228.380	2283.80
$ 7 Bromofluorobenzene	95	16.497	16.502	(0.947)	211934	236.701	2367.01
8 Dichlorodifluoromethane	85	4.180	4.185	(0.322)	179530	224.311	2243.11
9 Chloromethane	50	4.673	4.678	(0.360)	140225	202.288	2022.88
10 Vinyl Chloride	62	4.969	4.964	(0.383)	100380	240.073	2400.73
11 Bromomethane	94	5.906	5.931	(0.455)	33985	177.858	1778.58
12 Chloroethane	64	6.211	6.207	(0.479)	41458	236.719	2367.19
13 Trichlorofluoromethane	101	8.341	8.347	(0.643)	164056	248.630	2486.30
14 Acrolein	56	Compound Not Detected.					

8/18/2014

Data File: /chem/5972hp59.i/D4H15005A59.b/4081503-BSD159.d
Report Date: 18-Aug-2014 15:41

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
15 1,1,1-trichloro-2,2,2-trifluo	117	8.272	8.288	(0.637)	49265	222.543	2225.43
16 1,1,2-trichloro-1,2,2-trifluo	101	8.341	8.347	(0.643)	164056	248.630	2486.30
17 1,1-Dichloroethene	96	8.391	8.386	(0.647)	121826	246.752	2467.52
18 Acetone	43	8.568	8.564	(0.660)	75127	611.671	6116.71
19 Iodomethane	142	8.775	8.781	(0.676)	37716	147.654	1476.54
20 Carbon disulfide	76	8.894	8.889	(0.685)	419993	222.835	2228.35
21 3-Chloropropene	76	9.229	9.224	(0.711)	52127	238.073	2380.73
22 Acetonitrile	41	9.229	9.234	(0.711)	124207	198.761	1987.61
23 Methyl acetate	43	9.258	9.254	(0.713)	86637	159.144	1591.44
24 Methylene Chloride	84	9.515	9.510	(0.733)	154679	253.817	2538.17
25 Acrylonitrile	53	Compound Not Detected.					
26 Methyl-tert-butyl ether	73	9.959	9.954	(0.767)	322251	258.709	2587.09
28 trans-1,2-Dichloroethene	96	9.978	9.984	(0.769)	133016	239.011	2390.11
29 trans-1,2-DCE (part of total)	96	9.978	9.984	(0.769)	133016	239.011	2390.11
31 Isopropyl ether	45	10.757	10.763	(0.829)	410986	241.788	2417.88
32 1,1-Dichloroethane	63	10.747	10.743	(0.828)	242471	246.329	2463.29
33 Vinyl acetate	43	10.757	10.753	(0.829)	171179	221.384	2213.84(M)
34 Chloroprene	53	10.856	10.861	(0.837)	149765	225.690	2256.90
35 2-butanone	43	11.605	11.611	(0.894)	124811	569.624	5696.24
36 2,2-Dichloropropane	77	11.596	11.601	(0.894)	119597	163.719	1637.19
37 cis-1,2-Dichloroethene	96	11.615	11.621	(0.895)	156616	251.917	2519.17
38 cis-1,2-DCE (part of total)	96	11.615	11.621	(0.895)	156616	251.917	2519.17
39 Propionitrile	54	11.743	11.749	(0.905)	28934	499.535	4995.35(aR)
40 Methacrylonitrile	41	11.921	11.916	(0.919)	324601	1074.90	10749.0(R)
41 Bromochloromethane	128	11.941	11.936	(0.920)	71414	279.614	2796.14
42 Chloroform	83	12.010	12.015	(0.926)	249050	252.203	2522.03
43 1,1,1-Trichloroethane	97	12.246	12.242	(0.944)	192162	248.814	2488.14
44 Cyclohexane	56	12.276	12.271	(0.946)	112935	196.520	1965.20
46 1,1-dichloropropene	75	12.434	12.429	(0.958)	170102	241.292	2412.92
47 Isobutyl alcohol	43	12.503	12.498	(0.964)	299360	12284.9	122849
48 Carbon Tetrachloride	117	12.424	12.419	(0.957)	176903	244.777	2447.77
49 Benzene	78	12.661	12.666	(0.976)	528622	249.328	2493.28
50 1,2-Dichloroethane	62	12.720	12.725	(0.980)	167307	254.455	2544.55
51 Trichloroethene	130	13.361	13.356	(1.030)	156617	263.687	2636.87
52 Methylcyclohexane	83	13.528	13.534	(1.043)	106162	190.710	1907.10(R)
53 Methylmethacrylate	100	13.627	13.632	(1.050)	573136	3463.81	34638.1(R)
54 1,2-Dichloropropane	63	13.607	13.613	(1.049)	130818	236.711	2367.11
55 1,4-dioxane	88	13.696	13.692	(1.055)	88113	14530.7	145307
56 Dibromomethane	174	13.735	13.741	(1.059)	106710	308.395	3083.95
57 Bromodichloromethane	83	13.854	13.849	(1.068)	209657	265.700	2657.00
58 cis-1,3-Dichloropropene	75	14.248	14.254	(1.098)	171156	199.559	1995.59(R)
59 4-Methyl-2-pentanone	43	14.337	14.332	(0.917)	305716	559.141	5591.41
60 Toluene	92	14.524	14.530	(0.929)	339609	237.581	2375.81
61 Ethylmethacrylate	99	14.682	14.687	(0.939)	439	206.897	2068.97(RM)
62 trans-1,3-Dichloropropene	75	14.712	14.707	(0.941)	141438	176.231	1762.31
63 1,1,2-Trichloroethane	97	14.869	14.865	(0.951)	139991	267.730	2677.30
64 2-hexanone	43	14.998	15.003	(0.959)	189232	472.794	4727.94

8/18/2014

Data File: /chem/5972hp59.i/D4H15005A59.b/4081503-BSD159.d
Report Date: 18-Aug-2014 15:41

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
65 2-chloroethyl vinyl ether	63	14.081	14.076	(1.085)	77668	326.004	3260.04
66 1,3-Dichloropropane	76	15.008	15.013	(0.960)	218924	250.253	2502.53
67 Tetrachloroethene	164	14.978	14.973	(0.958)	128036	256.923	2569.23
68 Dibromochloromethane	129	15.195	15.190	(0.972)	185287	273.015	2730.15
69 1,2-Dibromoethane	107	15.313	15.309	(0.979)	156108	265.895	2658.95
70 1-Chlorohexane	55	15.550	15.555	(0.994)	52215	127.075	1270.75
71 Chlorobenzene	112	15.658	15.664	(1.001)	421973	240.632	2406.32
72 Ethylbenzene	106	15.688	15.693	(1.003)	192910	232.208	2322.08
73 1,1,1,2-Tetrachloroethane	131	15.708	15.703	(1.004)	160170	258.498	2584.98
74 m,p-Xylene	106	15.767	15.772	(1.008)	467312	443.435	4434.35
75 m,p-Xylene (part of total)	106	15.767	15.772	(1.008)	467312	443.435	4434.35
76 o-Xylene	106	16.082	16.088	(1.028)	251686	246.935	2469.35
77 o-Xylene (part of total)	106	16.082	16.088	(1.028)	251686	246.935	2469.35
78 Styrene	104	16.092	16.088	(1.029)	393921	231.943	2319.43
79 Bromoform	173	16.289	16.295	(0.935)	120726	277.619	2776.19
80 Isopropyl Benzene	105	16.329	16.334	(1.044)	623830	256.398	2563.98
81 1,1,2,2-Tetrachloroethane	83	16.566	16.571	(0.951)	197262	246.138	2461.38
82 trans-1,4-dichloro-2-butene	53	16.595	16.601	(1.061)	96689	511.397	5113.97
83 1,2,3-Trichloropropane	110	16.635	16.630	(1.064)	49683	266.565	2665.65
84 Bromobenzene	156	16.654	16.660	(1.065)	197007	268.038	2680.38
85 n-Propyl Benzene	91	16.635	16.640	(0.955)	777700	227.149	2271.49
86 1,3,5-Trimethyl Benzene	105	16.743	16.748	(0.961)	487618	238.040	2380.40
87 2-Chlorotoluene	91	16.763	16.768	(0.963)	468794	223.350	2233.50
88 4-Chlorotoluene	91	16.842	16.847	(0.967)	421643	214.303	2143.03
89 tert-Butyl Benzene	119	17.019	17.015	(0.977)	512476	257.208	2572.08
90 1,2,4-Trimethyl Benzene	105	17.049	17.054	(0.979)	497575	234.932	2349.32
91 Pentachloroethane	167	17.098	17.103	(0.982)	112166	270.146	2701.46
92 sec-Butyl Benzene	105	17.187	17.192	(0.987)	680125	248.468	2484.68
93 p-Isopropyl Toluene	119	17.266	17.271	(0.991)	511745	231.456	2314.56
94 1,3-Dichlorobenzene	146	17.364	17.370	(0.997)	330466	241.364	2413.64
95 1,4-Dichlorobenzene	146	17.433	17.439	(1.001)	319607	227.548	2275.48
96 n-Butyl Benzene	91	17.611	17.616	(1.011)	435243	201.551	2015.51
97 1,2-Dichlorobenzene	146	17.779	17.774	(1.021)	314354	249.413	2494.13
98 1,2-Dibromo-3-Chloropropane	157	18.479	18.474	(1.061)	40616	293.935	2939.35
99 1,2,4-Trichlorobenzene	180	19.356	19.362	(1.112)	177909	209.353	2093.53
100 Hexachlorobutadiene	225	19.455	19.450	(1.117)	94883	219.998	2199.98
101 Naphthalene	128	19.692	19.697	(1.131)	473197	266.287	2662.87
102 1,2,3-Trichlorobenzene	180	19.997	20.003	(1.148)	178285	229.734	2297.34
M 103 1,2-Dichloroethene (total)	96				289632	491.641	4916.41
M 104 Xylene (total)	106				718998	690.371	6903.71

QC Flag Legend

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

8/18/2014

Data File: /chem/5972hp59.i/D4H15005A59.b/4081503-BSD159.d
Report Date: 18-Aug-2014 15:41

CompuChem

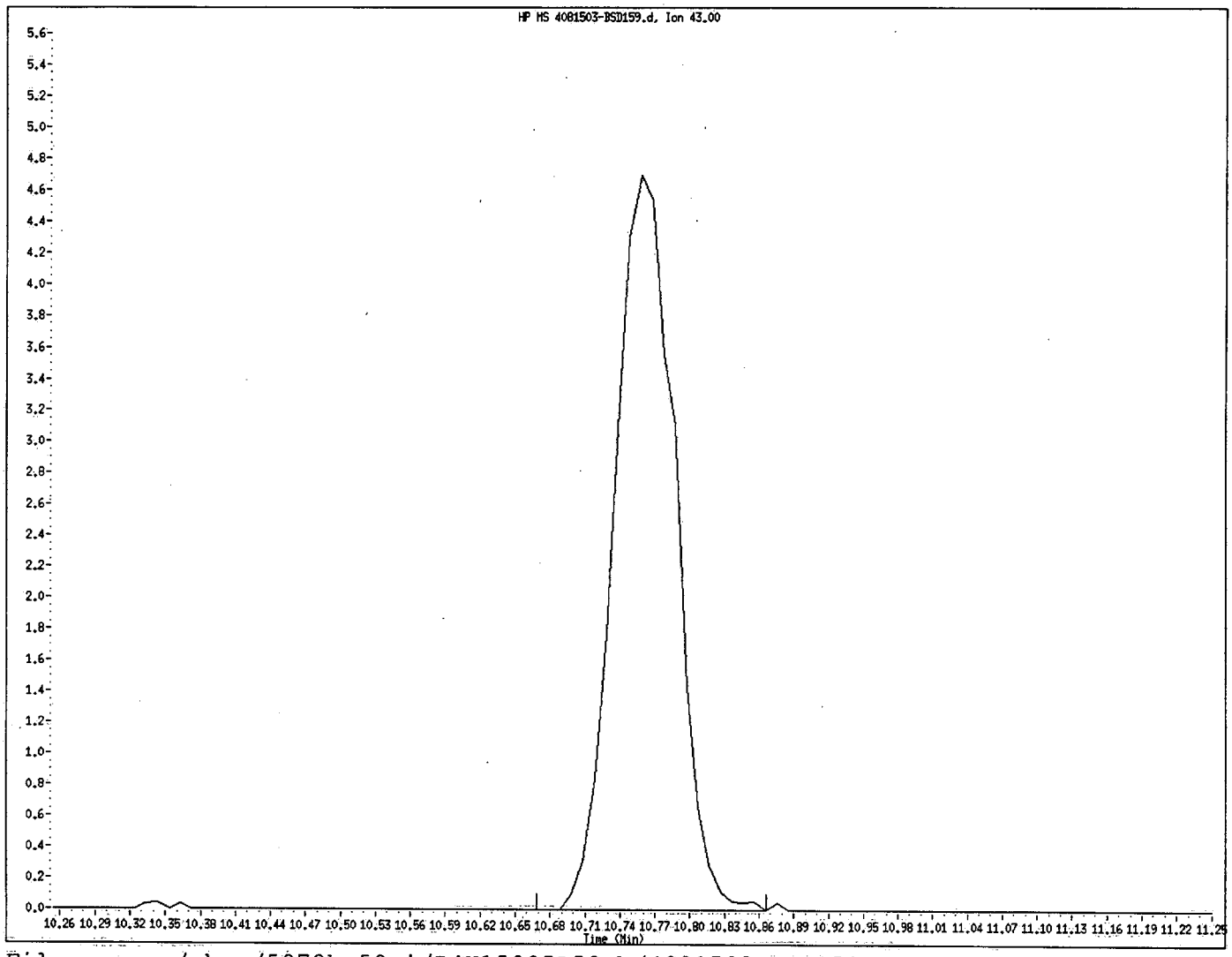
SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5972hp59.i/D4H15005A59.b/4081503-BSD159.d
Lab Smp Id: 4081503-BSD1 Client Smp ID: VLCSDGA
Inj Date : 15-AUG-2014 15:29
Operator : JAO Inst ID: 5972hp59.i
Smp Info : 4081503-BSD1:JAO
Misc Info : VLCSDGA
Comment :
Method : /chem/5972hp59.i/D4H15005A59.b/8260B_5ppbv5.m
Meth Date : 18-Aug-2014 15:41 ron Quant Type: ISTD
Cal Date : 11-AUG-2014 18:02 Cal File: 4H11002-CAL3R59.d
Als bottle: 8 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DC.sub
Target Version: 3.50
Processing Host: dante

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

8/18/2014

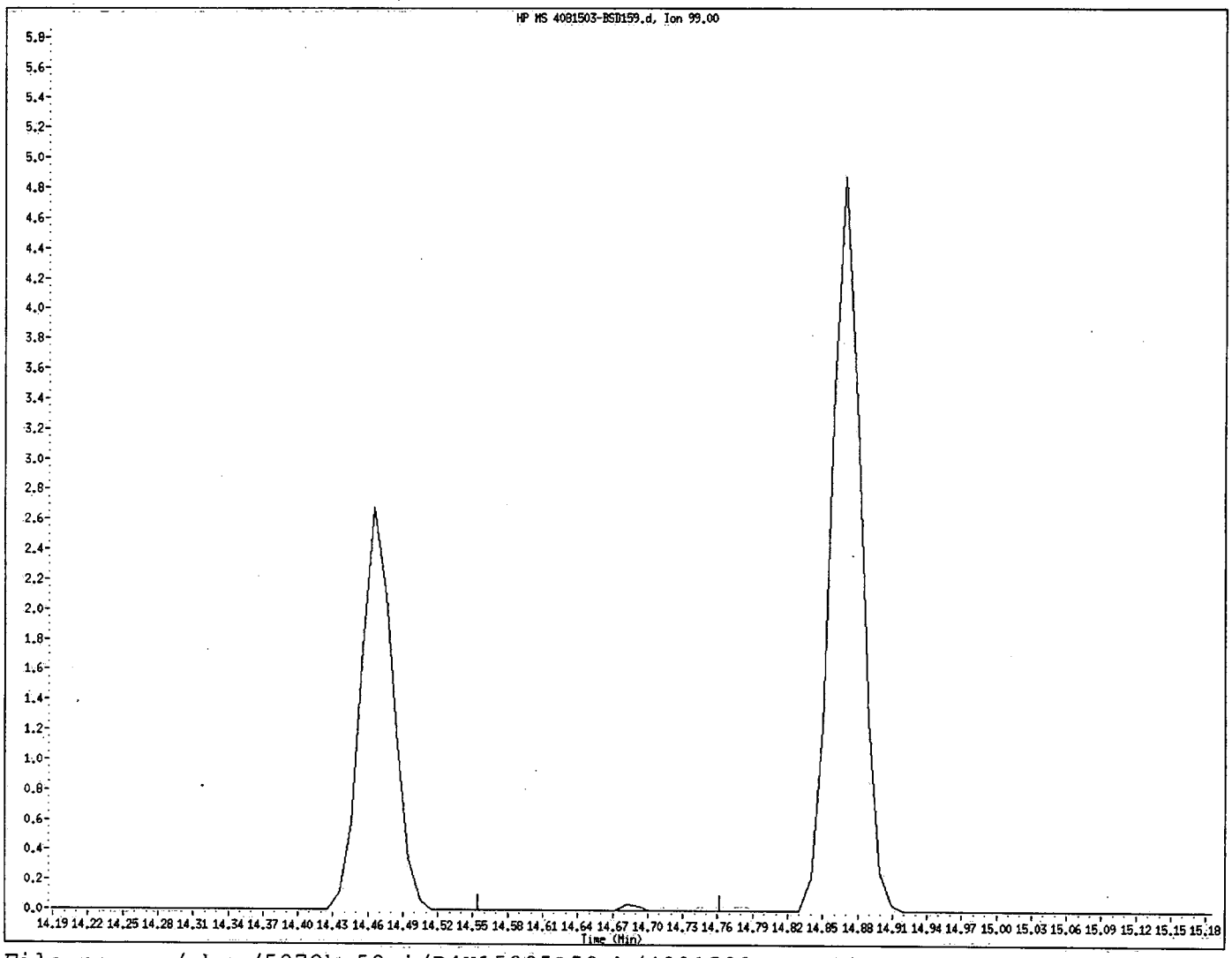
Vinyl acetate CAS Number 108-05-4 Area = 171179 Manually integrated



File name: /chem/5972hp59.i/D4H15005A59.b/4081503-BSD159.d
Client ID: VLCSDGA
Instrument ID: 5972hp59.i
Injection Date and Time: 15-AUG-2014 15:29
Retention Time: 10.76
Operator ID: JAO

8/18/2014

Ethylmethacrylate CAS Number 97-63-2 Area = 439 Manually integrated



File name: /chem/5972hp59.i/D4H15005A59.b/4081503-BSD159.d
Client ID: VLCSDGA
Instrument ID: 5972hp59.i
Injection Date and Time: 15-AUG-2014 15:29
Retention Time: 14.68
Operator ID: JAO

8/18/2014

S. Run Logs / Prep Sheets / Internal CoC Documents / Standard Preparation Information / Manual Integration Summary

Run Logs

COMPUCHEM a Division of Liberty Analytical Corp DATE 8/11/14 INITIAL TIME OF TUNE 1358 SHIFT/S(A) ✓ (B)____ (C)____

GC/MS VOLATILE RUN LOG TIME TUNE EXPIRES 0158 LINKER /METHOD____

COMPUCHEM LOGBOOK 11 NNN 32 (5972hp59) METHOD: 8260B SOM01.2 (Circle one) or Other: 5 ppb

MAINTENANCE none

	FILE NAME		pH	Vial	DATE	TIME	Client ID	SDG#	INJ. VOL.*	DF+	CHEMIST	COMMENTS (ETC.)/ DISPOSITION
1	4H11002-TUN1		—	—	8/11/14	1358	BFBFT	—	2uL	—	JAO	LCD=SCD
2	-CAL2		—	—	/ /	1426	VSTD010FT	—	5mL	—		4F019029
3	-CAL1		—	—	/ /	1457	VSTD005FT	—		—		28 no acrolein
4	-CAL6		—	—	/ /	1528	VSTD200FT	—		—		33 no
5	-CAL5	US	—	—	/ /	1558	VSTD100FT	—		—		32 iodo-
6	-CAL4		—	—	/ /	1629	VSTD050FT	—		—		31 methane
7	-CAL3	US	—	—	/ /	1700	VSTD020FT	—		—		30
8	-CAL1R	RU	—	—	/ /	1732	VSTD005FT	—		—		28
9	-CAL3R		—	—	/ /	1802	VSTD020FT	—		—		30
10	-CAL5R	RU	—	—	/ /	1833	VSTD100FT	—		—		32
11	-SCV1		—	—	/ /	1916	VSTD050FT	—		—		4H07015
12	-SCV1R		—	—	/ /	1947	VSTD050FT	—		—		
13	4081111-BLK1	CS	—	—	/ /	2018	VBLKFT	1408024	5.0	—		
14	-BLK1R		—	—	/ /	2049				—		
15	-BS1		—	—	/ /	2119	VLCSFT		5mL	—		Acetone
16	4H11002-IBL1		—	—	/ /	2150	VIBLKFT	—		—		
17	1408024-01		—	A	/ /	2221	P001-S002-0002-01	1408024	3.39	—		
18	-03		—	A	/ /	2252	-S003-0002-02		3.~~39~~ 68	8-11-14		
19	-04		—	A	/ /	2323	-S006-0002-01		3.93	—		
20	-05		—	A	/ /	2354	-S001-0002-01		3.10	—		
21	-02		—	A	8/12/14	0025	-S003-0002-01		3.39	—		
22	4081111-MS1	IL	—	B	/ /	0055	MS		3.53	—		
23	-MSD1		—	C	/ /	0126	MSD		3.50	—		
24	4081111-BS1R		—	—	/ /	0157	VLCSFT	—	5mL	—		

JAO 12-14

JAO 12-14

*On-column sample aliquot +Not applicable to soil matrix

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation

Tune (ID #7008) Lot No.: 4G19001 Calibration Group Code / Lot No.: 4F19031

Internal Standard Lot No.: 4H01003 Surrogate Lot No.: 4F16001

REVIEWED BY: TAJ Date 8/12/14

9/19/12: bm

COMPUCHEM a Division of Liberty Analytical Corp DATE 8/13/14 INITIAL TIME OF TUNE 1314 SHIFT/S(A) ✓ (B)____ (C)____
GC/MS VOLATILE RUN LOG TIME TUNE EXPIRES 0114 LINKER /METHOD____
COMPUCHEM LOGBOOK 11 NNN 32 (5972hp59) METHOD: (8260B) SOM01.2 (Circle one) or Other: 5 µg/L
MAINTENANCE none

		FILE NAME		pH	Vial	DATE	TIME	Client ID	SDG#	INJ VOL	DF	CHEMIST	COMMENTS (ETC.) / DISPOSITION
1		4H13004-TUN1		—	—	8/13/14	1314	BFBFW	—	2uL	—	JAO	LCD=SCD
2		↓ -ICV1		—	—	/ /	1339	VSTD050FW	—	5mL	—		
3		4081311-BLK1		—	—	/ /	1419	VBLKFW	VARIOUS	5.0	—		
4		4081312-BLK1	CS	—	—	/ /	1451	VBLKFX		~~100uL~~ 5mL	—		M. Level Meoh Lot # 4C18041
5		↓ -BLK1R		—	—	/ /	1537	↓		↓	—		↓ ↓
6		4081311-BS1		—	—	/ /	1618	VLCSFW		5mL	—		MCH ↓
7		↓ -BSD1		—	—	/ /	1649	VLCSDFW			—		MCH ↓
8		4081312-BS1		—	—	/ /	1719	VLCSFX			—		MCH ↓
9		↓ -BSD1		—	—	/ /	1750	VLCSDFX			—		MCH ↓
10		↓ -BS1R	RO	—	—	/ /	1821	VLCSFX	↓		—		
11		4H13004-IBL1		—	—	/ /	1851	VIBLKFXW JAO 8-13-14	—	↓	—		
12		1408019-06D2	DI	—	Jar	/ /	1922	P001-DR0702-SW-01	1408019	50uL	—		M. Level o-Xylene 1003µg
13		4H13004-IBL2		—	—	/ /	2011	VIBLKFX	—	5mL	—		
14		1408028-02	DW	—	Jar	/ /	2041	P001-COMP02-LW-01	1408028	5uL	—		M. Level [5g ~~5mL~~ MeOH]
15		↓ -01	DW	—	↓	/ /	2134	-DR0502-LW-01	↓	5uL	—		
16		1408028-08D2		—		/ /	2218	-DR0501-LW-01	1408019	100uL	—		
17		↓ -06D3		—		/ /	2302	-DR0702-SW-01	↓	30uL	—		
18		1408028-02D	SH	—		↓ /	2342	-DR0502-LW-01	1408028	100uL	—		huge TIC
19		↓ -01D		—		8/14/14	0023	-COMP02-LW-01	↓	17uL	—		↓ ↓
20		1408019-03	IL SH	—		/ /	0054	-PL0202-SW-01	1408019	0.5g	—		Low Level - H2O
21		↓ -10	OT DI	—	↓	/ ↓	0125	-US101-LW-01	↓	0.5g	—	↓	~~Low Level - H2O~~ out of tune
22						/ /							
23						/ /		JAO 8-14-14					
24						/ /							

*On-column sample aliquot +Not applicable to soil matrix

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation

Tune (ID #7008) Lot No.: 4G19001 Calibration Group Code / Lot No.: 4F19031
Internal Standard Lot No.: 4H13001 Surrogate Lot No.: 4F16001
REVIEWED BY: TAJ Date 8/14/14
9/19/12: bm

COMPUCHEM a Division of Liberty Analytical Corp DATE 8/15/14 INITIAL TIME OF TUNE 1233 SHIFT/S(A) ✓ (B) ____ (C) ____

GC/MS VOLATILE RUN LOG TIME TUNE EXPIRES 0033 LINKER /METHOD ____

COMPUCHEM LOGBOOK 11 NNN 32 (5972hp59) METHOD: 8260B SOM01.2 (Circle one) or Other: 5 ppb

MAINTENANCE none

		FILE NAME		pH	Vial	DATE	TIME	Client ID	SDG#	INJ. VOL.*	DF+	CHEMIST	COMMENTS (ETC.)/ DISPOSITION
1		4H15005-TUN1	\	—	—	8/15/14	1233	BFBGA	—	2uL	—	JAO	LCD=SCD
2		↓ -ICV1	\	—	—	/ /	1259	VSTD050GA	—	5mL	—		
3	\	4081503-BLK1	cs	—	—	/ /	1345	VBLKGA	1408028	100uL 5mL	—		M. Level Meoh Lot # 4C18041
4		-BLK1R	\	—	—	/ /	1417	↓		↓	—		↓ ↓
5		-BS1	\	—	—	/ /	1458	VLCSGA		5mL	—		
6		↓ -BSD1	\	—	—	/ /	1529	VLCSDGA	↓		—		
7		4H15005-IBL1	\	—	—	/ /	1611	VIBLKGA	—	↓	—		
8	\	1408028-02D2	FILE SI		Jar	/ /	1642	P001-DR0502-LW-01	1408028	100uL	—	↓	M. Level huge TIC
9						/ /							
10						/ /							
11						/ /							
12						/ /							
13						/ /							
14						/ /							
15						/ /							
16						/ /							
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19						/ /							
20						/ /							
21						/ /							
22						/ /							
23						/ /							
24						/ /							

JAO 8-15-14

*On-column sample aliquot +Not applicable to soil matrix

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation

Tune (ID #7008) Lot No.: 4G19001 Calibration Group Code / Lot No.: 4F19031

Internal Standard Lot No.: 4H13001 Surrogate Lot No.: 4F16001

REVIEWED BY: [signature] Date 8/18/14

9/19/12: bm

7/31/2013

VOA Internal Chain of Custody Sheet

Dept: PM

Matrix Soil **Batch:** 4081310 **Status:** Batched **Analysis:** VOA-8260B 5PPB

Lab Id	Client Id	Received	Container	Preparation
1408028-01 A	P001-COMP02-LW-01	08/12/14	4b_4OZ WM Glass, coc	EPA 5035A
1408028-02 A	P001-DR0502-LW-01	08/12/14	4b_4OZ WM Glass, coc	EPA 5035A

Relinquished By	Date/Time	Received By	Date/Time
#5	8-13-14	JAD	8-13-14
JAD	8-13-14	#5	8-13-14
#5	8-15-14	JAD	8-15-14
JAD	8-15-14	#5	8-15-14

7/31/2013

VOA Internal Chain of Custody Sheet

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Matrix Soil **Batch:** 4081310 **Status:** Batched **Analysis:** VOA-8260B 5PPB

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1408028-01 A	P001-COMP02-LW-01	08/12/14	4b_4OZ WM Glass, coc	EPA 5035A
1408028-02 A	P001-DR0502-LW-01	08/12/14	4b_4OZ WM Glass, coc	EPA 5035A

#5	8-13-14	JAD	8-13-14
Relinquished By	Date/Time	Received By	Date/Time
JAD	8-13-14	#5	8-13-14
Relinquished By	Date/Time	Received By	Date/Time
#5	8-15-14	JAD	8-15-14
Relinquished By	Date/Time	Received By	Date/Time
JAD	8-15-14	#5	8-15-14
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Manual Integration Report

CompuChem
A Division Of
Liberty Analytical Corp.

Manual Integration Summary

Client: WESTON SOLUTIONS
Work Order: 1408028
Sdg: 1408028
Project: RST2/RFP306/EP-S2-14-01/SITE ID:ZZ
Case:

Analysis: VOA-8260B 5PPB
Sample Type: Field Sample
Lab Id: 1408028-02
Client Id: P001-DR0502-LW-01
Instrument: 5972hp59

Analyte	Type	M Flag
1,4-Dichlorobenzene-d4	ISTD	M
Bromofluorobenzene	SURROGATE	M

Sample Total: 2

Analysis: VOA-8260B 5PPB
Sample Type: Cal Standard
Lab Id: 4H11002-CAL1
Client Id: VSTD005FT
Instrument: 5972hp59

Analyte	Type	M Flag
Bromoform	TARGET	M
Bromomethane	TARGET	M
Iodomethane	TARGET	M
Vinyl acetate	TARGET	M

Sample Total: 4

Analysis: VOA-8260B 5PPB
Sample Type: Cal Standard
Lab Id: 4H11002-CAL2
Client Id: VSTD010FT
Instrument: 5972hp59

Analyte	Type	M Flag
Bromomethane	TARGET	M
Vinyl acetate	TARGET	M

Sample Total: 2

Analysis: VOA-8260B 5PPB
Sample Type: Cal Standard
Lab Id: 4H11002-CAL3
Client Id: VSTD020FT
Instrument: 5972hp59

Analyte	Type	M Flag
Vinyl acetate	TARGET	M

Sample Total: 1

Client: WESTON SOLUTIONS	**Project:** RST2/RFP306/EP-S2-14-01/SITE ID:ZZ
Work Order: 1408028	**Case:**
Sdg: 1408028	

Analysis: VOA-8260B 5PPB **Sample Type:** Cal Standard

Lab Id: 4H11002-CAL5 **Client Id:** VSTD100FT **Instrument:** 5972hp59

Analyte	Type	M Flag
Bromomethane	TARGET	M

Sample Total: 1

Analysis: VOA-8260B 5PPB **Sample Type:** Initial Cal Check

Lab Id: 4H15005-ICV1 **Client Id:** VSTD050GA **Instrument:** 5972hp59

Analyte	Type	M Flag
Vinyl acetate	TARGET	M

Sample Total: 1

Total Manual Integrations: 11