Michigan State Police
Forensic Science Division
Agency Evidence Return Receipt

Transfer Date 3/24/2021 2:14:06 PM

Summary Returned to Officer Harpe, Gary from Hamburg Township Police Department. Returned by Danner, Ronda at Northville Forensic Laboratory - Evidence Receiving. Return method: Personal Delivery.

Case #: NV20-41 **Agency Case #:** 1900914 Submission #: 1

Container 1	1- Sealed metal can labeled "Sample #1" with PR# 33768 containing:
Container 2	1- Sealed metal can labeled "Sample #2" with PR# 33769 containing:
Item 1	Charred wood
Item 2	Charred wood and debris

Case #: NV20-41 **Agency Case #:** 1900914 Submission #: 2

Container 3	1- Sealed metal can labeled "Sample #3" with PR# 33767 containing:
Container 4	1- Heat-sealed nylon package containing the unanalyzed portion of carbon extracts in glass vials
Item 3	Wood (comparison sample)

Received By: _____

Case #: NV20-41
Agency Case #: 1900914

Harpe, Gary
Hamburg Township Police Department

FSD-007 (10/2018)
Michigan State Police
Page 1

Request for Laboratory E

Lab Case #: NV20-41
Hamburg Township Police Department
Agency Case # 1900914
Officer: Harpe, Gary
Officer Phone Number: 810-222-1174
Submission: 1 1/6/2020 11:08:04 AM

If evidence has been previously submitted to the laboratory on this incident, please

Agency Details

Agency Name	Agency Incident Number	File Class
Hamburg Township Police Department	1900914	2000
Submitting Officer (Name and Rank)	**Submitting Officer Phone Number**	**Submitting Officer Email**
D/Sgt Gary Harpe	810.222.1174	gharpe@hamburg.mi.us
Investigating Officer (Name and Rank)	**Investigating Officer Phone Number**	**Investigating Officer Email**
D/Sgt Gary Harpe		
Carbon Copy Officer Name or Email		
hatp@hamburg.mi.us		

Offense Details

Date of Offense	Location of Offense – Street Address	Street Intersection 1	Street Intersection 1
11/19/2019	7809 Winans Lake Rd		
Two Digit County Code	**City**	**State**	**Zip Code**
47	Brighton	MI	48116

Examination Details

Forensic Exams: *Please itemize evidence on page two for Biology/DNA exam requests*

☐ Biology/DNA ☐ Bloodstain Pattern ☐ Latent Prints ☐ Questioned Documents

Controlled Substance Exams:

☐ Overdose
☐ Possession
☐ Manufacture/PWID
☐ Other

Medical Marihuana Exams (MMA Violation): Subject is: ☐ Patient ☐ Caregiver (Provide Number of Cards/Patients)

☐ Amount
☐ Secure Storage Location
☐ Improper Transport
☐ Other:

Firearms/Toolmarks Exams:

☐ Open Shoot/NIBIN Entry ☐ Toolmarks Comparison
☐ Fired Evidence Comparison ☐ Serial Number Restoration
☐ Multiple Case Comparison ☐ GSR/Distance/Determination
☐ Other:

Trace Evidence Exams (Select all that apply):

☐ Adulterant/Unknown Chemical ☐ Lamp Filaments ☐ Paint
☑ Ignitable Liquid/Arson ☐ Fracture Match ☐ Glass
☐ Explosive Residue ☐ Footwear/Tire track ☐ Fiber
☐ Other:

Please itemize evidence on page two when requesting any examination above

Person Detail (Type Key: S = Suspect, V = Victim, E = Elimination)

Type	Name: First, Middle, Last	Race	Sex	Date of Birth	SID or FBI Number
S	Philip Gerhard Neumeier	w	m	6/24/1985	none

Statement of Facts/Details (Required)

Homeowner (Philip Neumeier) was found on video leaving his home and two minutes later smoke began exitting the structure. The subsequent cause and origin investigation found two origins of the fire. Within the first origin an incendiary device located within and incendiary pile. The second fire origin site showed an accelerant pour pattern on the floor. Samples of the floor were taken for testing.

veneer wood floor - will bring in control

reviewed 1/6/20 HP

Pre-Trial Date: , or Trial Date (if known)

IMPORTANT - PLEASE NOTE THE FOLLOWING REGARDING EVIDENCE PACKAGING AND DELIVERY:

1. *All evidence must be properly packaged and sealed in appropriate containers to prevent contamination and tampering.*
2. *Potential hazards shall be clearly identified by labeling the container. Examples: biohazard, sharp, laceration, caustic or any other known or potentially hazardous material.*
3. *The Forensic Science Division shall select and use the most appropriate testing method procedure(s).*
4. *The Forensic Science Division reserves the right to transfer evidence in its laboratory system to another accredited laboratory to help facilitate examination of evidence.*

Lab Case #: NV20-41
Hamburg Township Police Department
Agency Case # 1900914
Officer: Harpe, Gary
Officer Phone Number: 810-222-1174
Submission: 1 1/6/2020 11:08:04 AM

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The following information is REQUIRED per Federal regulations, when a Biology or DNA to accurately assess whether a DNA profile obtained from an evidentiary sample can be e

- Where the item was collected (i.e. location)?
- To whom does the item allegedly belong?
- Why do you believe this item belongs to the perpetrator and NOT a victim or unrelated individual?

The information should be included in the DETAILS column below, along with a brief description for each item of evidence.

Items submitted for Trace Evidence examination should, at a minimum, contain the identity and specific location of collection (e.g. known carpet fibers from suspect's vehicle).

By submitting evidence to the laboratory, the Forensic Science Division reserves the right to consume biological evidence and/or items of evidence when necessary to complete any and all analysis unless instructed not to do so in the DESCRIPTION/DETAILS OF ITEM column below.

Item of Evidence	Description/Detail of Item
33768	Floor Sample #1 which has been secured in a medium size sealed tin can
33769	Floor sample #2 which has been secured in a small size sealed tin can

If additional items of evidence need to be listed in a single laboratory submission please use copies of FSD-007, Page 2 for itemizing.

Michigan State Police

Northville Forensic Laboratory

Submission Report

Case #	Submission #	Page
NV20-41	1	1 of 2

Primary Agency:
Hamburg Township Police Department
10409 Merrill Rd. P.O.Box 157
Hamburg Township Police Department
Hamburg, MI 48139

Agency Case Number(s):
1900914

Submitted Date and Time:
1/6/2020 11:08:04 AM

Primary Examiner:
Cervenak, Eric

Investigating Officer
Harpe, Gary

Submitting Officer
Harpe, Gary

Names of Victims (Last, first, mid):	DOB	Race	Sex
Names of Suspects (Last, first, mid):	**DOB**	**Race**	**Sex**
Neumeier, Philip Gerhard	June 24, 1985	Caucasian	Male

Date and Type of Offense:
November 19, 2019 - Arson

Court and Court Date:

Examinations Requested:
Trace Arson

Jurisdiction:
47 - Livingston County

Brief Statement of Fact:

Specify manner of return of evidence: Personal Delivery

This evidence is being submitted in connection with a criminal investigation and has not been examined by another laboratory.

Evidence Submitted: (Itemize and Describe)

Container 1	1- Sealed metal can labeled "Sample #1" with PR# 33768 containing:
Container 2	1- Sealed metal can labeled "Sample #2" with PR# 33769 containing:
Item 1	Charred wood
Item 2	Charred wood and debris

By requesting services (Crime Scene Response or Forensic Testing) of FSD, you agree to the following:

All MSP Forensic Science Division laboratory reports will be issued in a simplified format.

Additional information will be made available to our customers upon request. This information may include the location of any testing if different from the listed laboratory, date of issue (release) for the report, the contact information of the customer, the specific dates of performance of any laboratory testing activities, a highly detailed description of the evidence item(s) and/or their condition, evidence disposition, identification of test methods used (where not provided by policy), dates of sampling (if applicable), reference to the sampling plan and sampling method used by the laboratory or other bodies where these are relevant to the validity or application of the results, additions/deviations/exclusions from methods, specific test and environmental conditions, and any other activity or report parameters that may be of interest.

For additional information about simplified reporting, please visit the MSP Forensic Science Division Website at:

https://www.michigan.gov/msp/0,4643,7-123-72297_60141---,00.html

Michigan State Police

Northville Forensic Laboratory

Submission Report

Case #	Submission #	Page
NV20-41	1	2 of 2

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Hamburg Township Police Department
10409 Merrill Rd. P.O.Box 157
Hamburg Township Police Department
Hamburg, MI 48139

Agency Case Number(s):
1900914

Submitted Date and Time:
1/6/2020 11:08:04 AM

Primary Examiner:
Cervenak, Eric

FSD-007 (10/2018)
Michigan State Police
Page 1

Request for Laborator

Lab Case #: NV20-41
Hamburg Township Police Department
Agency Case # 1900914
Officer: Harpe, Gary
Officer Phone Number: 810-222-1174
Submission: 2 1/7/2020 9:45:19 AM

PD 1/2

If evidence has been previously submitted to the laboratory on this incident, ple

Agency Details

Agency Name	Agency Incident Number	File Class
Hamburg Township Police Department	1900914	2000
Submitting Officer (Name and Rank)	**Submitting Officer Phone Number**	**Submitting Officer Email**
D/Sgt Gary Harpe	810.222.1174	gharpe@hamburg.mi.us
Investigating Officer (Name and Rank)	**Investigating Officer Phone Number**	**Investigating Officer Email**
D/Sgt Gary Harpe		
Carbon Copy Officer Name or Email		
hatp@hamburg.mi.us		

Offense Details

Date of Offense	Location of Offense – Street Address	Street Intersection 1	Street Intersection 1
11/19/2019	7809 Winans Lake Rd		
Two Digit County Code	**City**	**State**	**Zip Code**
47	Brighton	MI	48116

Examination Details

Forensic Exams: *Please itemize evidence on page two for Biology/DNA exam requests*

☐ Biology/DNA ☐ Bloodstain Pattern ☐ Latent Prints ☐ Questioned Documents

Controlled Substance Exams:

☐ Overdose
☐ Possession
☐ Manufacture/PWID
☐ Other

Medical Marihuana Exams (MMA Violation):

☐ Amount
☐ Secure Storage Location
☐ Improper Transport
☐ Other:

Subject is: ☐ Patient ☐ Caregiver (Provide Number of Cards/Patients)

Firearms/Toolmarks Exams:

☐ Open Shoot/NIBIN Entry ☐ Toolmarks Comparison
☐ Fired Evidence Comparison ☐ Serial Number Restoration
☐ Multiple Case Comparison ☐ GSR/Distance/Determination
☐ Other:

Trace Evidence Exams (Select all that apply):

☐ Adulterant/Unknown Chemical ☐ Lamp Filaments ☐ Paint
☒ Ignitable Liquid/Arson ☐ Fracture Match ☐ Glass
☐ Explosive Residue ☐ Footwear/Tire track ☐ Fiber
☐ Other:

Please itemize evidence on page two when requesting any examination above

Person Detail (Type Key: S = Suspect, V = Victim, E = Elimination)

Type	Name: First, Middle, Last	Race	Sex	Date of Birth	SID or FBI Number
S	Philip Gerhard Neumeier	w	m	6/24/1985	none

Statement of Facts/Details (Required)

Homeowner (Philip Neumeier) was found on video leaving his home and two minutes later smoke began exitting the structure. The subsequent cause and origin investigation found two origins of the fire. Within the first origin an incendiary device located within an incendiary pile. The second fire origin site showed an accelerant pour pattern on the floor. Samples of the floor were taken for testing.

control item requested 1/6/20 @ 1/7/20

Pre-Trial Date: , or Trial Date (if known)

IMPORTANT - PLEASE NOTE THE FOLLOWING REGARDING EVIDENCE PACKAGING AND DELIVERY:

1. *All evidence must be properly packaged and sealed in appropriate containers to prevent contamination and tampering.*
2. *Potential hazards shall be clearly identified by labeling the container. Examples: biohazard, sharp, laceration, caustic or any other known or potentially hazardous material.*
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4. *The Forensic Science Division reserves the right to transfer evidence in its laboratory system to another accredited laboratory to help facilitate examination of evidence.*

Lab Case #: NV20-41
Hamburg Township Police Department
Agency Case # 1900914
Officer: Harpe, Gary
Officer Phone Number: 810-222-1174
Submission: 2 1/7/2020 9:45:19 AM

RD 2/2

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Item of Evidence	Description/Detail of Item
33768	Floor Sample #1 which has been secured in a medium size sealed tin can
33769	Floor sample #2 which has been secured in a small size sealed tin can
33767	Floor sample #3 Control sample

If additional items of evidence need to be listed in a single laboratory submission please use copies of FSD-007, Page 2 for itemizing.

Michigan State Police

Northville Forensic Laboratory

Submission Report

Case #	Submission #	Page
NV20-41	2	1 of 1

Primary Agency:
Hamburg Township Police Department
10409 Merrill Rd. P.O.Box 157
Hamburg Township Police Department
Hamburg, MI 48139

Agency Case Number(s):
1900914

Submitted Date and Time:
1/7/2020 9:45:19 AM

Primary Examiner:
Cervenak, Eric

Investigating Officer
Harpe, Gary

Submitting Officer
Harpe, Gary

Names of Victims (Last, first, mid):	DOB	Race	Sex
Names of Suspects (Last, first, mid):	**DOB**	**Race**	**Sex**
Neumeier, Philip Gerhard	June 24, 1985	Caucasian	Male

Date and Type of Offense:
November 19, 2019 - Arson

Court and Court Date:

Examinations Requested:
Trace Arson

Jurisdiction:
47 - Livingston County

Brief Statement of Fact:

Specify manner of return of evidence: Personal Delivery

This evidence is being submitted in connection with a criminal investigation and has not been examined by another laboratory.

Evidence Submitted: (Itemize and Describe)

Container 3	1- Sealed metal can labeled "Sample #3" with PR# 33767 containing:
Container 4	1- Heat-sealed nylon package containing the unanalyzed portion of carbon extracts in glass vials
Item 3	Wood (comparison sample)

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Additional information will be made available to our customers upon request. This information may include the location of any testing if different from the listed laboratory, date of issue (release) for the report, the contact information of the customer, the specific dates of performance of any laboratory testing activities, a highly detailed description of the evidence item(s) and/or their condition, evidence disposition, identification of test methods used (where not provided by policy), dates of sampling (if applicable), reference to the sampling plan and sampling method used by the laboratory or other bodies where these are relevant to the validity or application of the results, additions/deviations/exclusions from methods, specific test and environmental conditions, and any other activity or report parameters that may be of interest.

For additional information about simplified reporting, please visit the MSP Forensic Science Division Website at:

https://www.michigan.gov/msp/0,4643,7-123-72297_60141---,00.html

Chain of Custody
NV20-41

Lansing Forensic Laboratory
7320 N. Canal Rd
Lansing, MI 48913

Evidence

NV20-41 Sub #1 — **Hamburg Township Police Department**
Agency Case #1900914

Container 1	1- Sealed metal can labeled "Sample #1" with PR# 33768 containing:
Container 2	1- Sealed metal can labeled "Sample #2" with PR# 33769 containing:
Item 1	Charred wood
Item 2	Charred wood and debris

NV20-41 Sub #2 — **Hamburg Township Police Department**
Agency Case #1900914

Container 3	1- Sealed metal can labeled "Sample #3" with PR# 33767 containing:
Container 4	1- Heat-sealed nylon package containing the unanalyzed portion of carbon extracts in glass vials
Item 3	Wood (comparison sample)

Transfers

NV20-41 - Container 1

1/6/2020 11:19:47 AM	Submitted by Officer Harpe, Gary from Hamburg Township Police Department. Placed directly in locker NV Evidence Receiving Strg - Locker 262 at Northville Forensic Laboratory - Evidence Receiving.
	For Storage
1/8/2020 10:11:31 AM	Removed from Storage by Orr, Caitlin at Northville Forensic Laboratory - Evidence Receiving.
	For Transport
1/8/2020 10:11:31 AM	Personal Delivery from Orr, Caitlin at Northville Forensic Laboratory - Evidence Receiving to Vainner, Jessica at Lansing Forensic Laboratory - Evidence Receiving.
	For Transport
1/8/2020 2:36:50 PM	Placed in Storage at LS Outgoing Evidence Storage - {To GR} by Vainner, Jessica at Lansing Forensic Laboratory - Evidence Receiving
	For Storage
1/10/2020 10:21:42 AM	Removed from Storage by Vainner, Jessica at Lansing Forensic Laboratory - Evidence Receiving.
	For Transport
1/10/2020 10:21:42 AM	Personal Delivery from Vainner, Jessica at Lansing Forensic Laboratory - Evidence Receiving to Konkol, Kyle at Grand Rapids Forensic Laboratory - Evidence Receiving.
	For Transport
1/10/2020 3:05:41 PM	Placed in Storage at {GR Trace Vault 1} - {Bin 928} by Konkol, Kyle at Grand Rapids Forensic Laboratory - Evidence Receiving

	For Storage
2/5/2020 9:32:58 AM	Removed from Storage by Cervenak, Eric at Grand Rapids Forensic Laboratory - Trace Evidence Unit.
	For Exam
2/7/2020 11:39:24 AM	Placed in Storage at GR Outgoing Evidence - Trace Bin 8-NV by Cervenak, Eric at Grand Rapids Forensic Laboratory - Trace Evidence Unit
	Return to agency
	For Transport
2/14/2020 7:54:08 AM	Removed from Storage by Rinkel, Chloe at Grand Rapids Forensic Laboratory - Evidence Receiving.
	For Transport
2/14/2020 9:43:40 AM	Personal Delivery from Rinkel, Chloe at Grand Rapids Forensic Laboratory - Evidence Receiving to Hodgson, Kolton at Lansing Forensic Laboratory - Evidence Receiving.
	For Storage
2/14/2020 10:16:04 AM	Placed in Storage at LS Outgoing Evidence Storage - {To NV/SH} by Hodgson, Kolton at Lansing Forensic Laboratory - Evidence Receiving
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	Requested By Officer
3/24/2021 2:14:06 PM	Returned to Officer Harpe, Gary from Hamburg Township Police Department. Returned by Danner, Ronda at Northville Forensic Laboratory - Evidence Receiving. Return method: Personal Delivery.
	Requested By Officer

NV20-41 - Container 2

1/6/2020 11:19:47 AM	Submitted by Officer Harpe, Gary from Hamburg Township Police Department. Placed directly in locker NV Evidence Receiving Strg - Locker 262 at Northville Forensic Laboratory - Evidence Receiving.
	For Storage
1/8/2020 10:11:31 AM	Removed from Storage by Orr, Caitlin at Northville Forensic Laboratory - Evidence Receiving.

	For Transport
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NV20-41 - Container 3

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	For Storage
1/8/2020 10:11:31 AM	Removed from Storage by Orr, Caitlin at Northville Forensic Laboratory - Evidence Receiving.
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NV20-41 - Container 4

2/6/2020 3:40:13 PM	Separated/created in Grand Rapids Forensic Laboratory - Trace Evidence Unit by Cervenak, Eric.
	Created by system when evidence separated/generated.
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NV20-41 - Item 1

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	Return to agency
	For Transport
2/14/2020 7:54:08 AM	Removed from Storage by Rinkel, Chloe at Grand Rapids Forensic Laboratory - Evidence Receiving.
	For Transport
2/14/2020 9:43:40 AM	Personal Delivery from Rinkel, Chloe at Grand Rapids Forensic Laboratory - Evidence Receiving to Hodgson, Kolton at Lansing Forensic Laboratory - Evidence Receiving.
	For Storage
2/14/2020 10:16:04 AM	Placed in Storage at LS Outgoing Evidence Storage - {To NV/SH} by Hodgson, Kolton at Lansing Forensic Laboratory - Evidence Receiving
	For Storage
2/19/2020 8:21:28 AM	Removed from Storage by Vainner, Jessica at Lansing Forensic Laboratory - Evidence Receiving.
	For Transport
2/19/2020 11:14:16 AM	Personal Delivery from Vainner, Jessica at Lansing Forensic Laboratory - Evidence Receiving to Danner, Ronda at Northville Forensic Laboratory - Evidence Receiving.
	For Storage
2/19/2020 11:49:29 AM	Placed in Storage at NV Trace PR - Bin 07 by Danner, Ronda at Northville Forensic Laboratory - Evidence Receiving
	For Storage
3/24/2021 2:14:06 PM	Removed from Storage by Danner, Ronda at Northville Forensic Laboratory - Evidence Receiving.
	Requested By Officer
3/24/2021 2:14:06 PM	Returned to Officer Harpe, Gary from Hamburg Township Police Department. Returned by Danner, Ronda at Northville Forensic Laboratory - Evidence Receiving. Return method: Personal Delivery.
	Requested By Officer

NV20-41 - Item 2

1/6/2020 11:19:47 AM	Submitted by Officer Harpe, Gary from Hamburg Township Police Department. Placed directly in locker NV Evidence Receiving Strg - Locker 262 at Northville Forensic Laboratory - Evidence Receiving.
	For Storage
1/8/2020 10:11:31 AM	Removed from Storage by Orr, Caitlin at Northville Forensic Laboratory - Evidence Receiving.
	For Transport
1/8/2020 10:11:31 AM	Personal Delivery from Orr, Caitlin at Northville Forensic Laboratory - Evidence Receiving to Vainner, Jessica at Lansing Forensic Laboratory - Evidence Receiving.
	For Transport
1/8/2020 2:36:50 PM	Placed in Storage at LS Outgoing Evidence Storage - {To GR} by Vainner, Jessica at Lansing Forensic Laboratory - Evidence Receiving

	For Storage
1/10/2020 10:21:42 AM	Removed from Storage by Vainner, Jessica at Lansing Forensic Laboratory - Evidence Receiving.
	For Transport
1/10/2020 10:21:42 AM	Personal Delivery from Vainner, Jessica at Lansing Forensic Laboratory - Evidence Receiving to Konkol, Kyle at Grand Rapids Forensic Laboratory - Evidence Receiving.
	For Transport
1/10/2020 3:05:41 PM	Placed in Storage at {GR Trace Vault 1} - {Bin 928} by Konkol, Kyle at Grand Rapids Forensic Laboratory - Evidence Receiving
	For Storage
2/5/2020 9:32:58 AM	Removed from Storage by Cervenak, Eric at Grand Rapids Forensic Laboratory - Trace Evidence Unit.
	For Exam
2/7/2020 11:39:24 AM	Placed in Storage at GR Outgoing Evidence - Trace Bin 8-NV by Cervenak, Eric at Grand Rapids Forensic Laboratory - Trace Evidence Unit
	Return to agency
	For Transport
2/14/2020 7:54:08 AM	Removed from Storage by Rinkel, Chloe at Grand Rapids Forensic Laboratory - Evidence Receiving.
	For Transport
2/14/2020 9:43:40 AM	Personal Delivery from Rinkel, Chloe at Grand Rapids Forensic Laboratory - Evidence Receiving to Hodgson, Kolton at Lansing Forensic Laboratory - Evidence Receiving.
	For Storage
2/14/2020 10:16:04 AM	Placed in Storage at LS Outgoing Evidence Storage - {To NV/SH} by Hodgson, Kolton at Lansing Forensic Laboratory - Evidence Receiving
	For Storage
2/19/2020 8:21:28 AM	Removed from Storage by Vainner, Jessica at Lansing Forensic Laboratory - Evidence Receiving.
	For Transport
2/19/2020 11:14:16 AM	Personal Delivery from Vainner, Jessica at Lansing Forensic Laboratory - Evidence Receiving to Danner, Ronda at Northville Forensic Laboratory - Evidence Receiving.
	For Storage
2/19/2020 11:49:29 AM	Placed in Storage at NV Trace PR - Bin 07 by Danner, Ronda at Northville Forensic Laboratory - Evidence Receiving
	For Storage
3/24/2021 2:14:06 PM	Removed from Storage by Danner, Ronda at Northville Forensic Laboratory - Evidence Receiving.
	Requested By Officer
3/24/2021 2:14:06 PM	Returned to Officer Harpe, Gary from Hamburg Township Police Department. Returned by Danner, Ronda at Northville Forensic Laboratory - Evidence Receiving. Return method: Personal Delivery.

	Requested By Officer

NV20-41 - Item 3

1/7/2020 9:49:55 AM	Submitted by Officer Harpe, Gary from Hamburg Township Police Department. Placed directly in locker NV Evidence Receiving Strg - Locker 273 at Northville Forensic Laboratory - Evidence Receiving.
	For Storage
1/8/2020 10:11:31 AM	Removed from Storage by Orr, Caitlin at Northville Forensic Laboratory - Evidence Receiving.
	For Transport
1/8/2020 10:11:31 AM	Personal Delivery from Orr, Caitlin at Northville Forensic Laboratory - Evidence Receiving to Vainner, Jessica at Lansing Forensic Laboratory - Evidence Receiving.
	For Transport
1/8/2020 2:36:50 PM	Placed in Storage at LS Outgoing Evidence Storage - {To GR} by Vainner, Jessica at Lansing Forensic Laboratory - Evidence Receiving
	For Storage
1/10/2020 10:21:42 AM	Removed from Storage by Vainner, Jessica at Lansing Forensic Laboratory - Evidence Receiving.
	For Transport
1/10/2020 10:21:42 AM	Personal Delivery from Vainner, Jessica at Lansing Forensic Laboratory - Evidence Receiving to Konkol, Kyle at Grand Rapids Forensic Laboratory - Evidence Receiving.
	For Transport
1/10/2020 3:05:41 PM	Placed in Storage at {GR Trace Vault 1} - {Bin 928} by Konkol, Kyle at Grand Rapids Forensic Laboratory - Evidence Receiving
	For Storage
2/5/2020 9:32:58 AM	Removed from Storage by Cervenak, Eric at Grand Rapids Forensic Laboratory - Trace Evidence Unit.
	For Exam
2/7/2020 11:39:24 AM	Placed in Storage at GR Outgoing Evidence - Trace Bin 8-NV by Cervenak, Eric at Grand Rapids Forensic Laboratory - Trace Evidence Unit
	Return to agency
	For Transport
2/14/2020 7:54:08 AM	Removed from Storage by Rinkel, Chloe at Grand Rapids Forensic Laboratory - Evidence Receiving.
	For Transport
2/14/2020 9:43:40 AM	Personal Delivery from Rinkel, Chloe at Grand Rapids Forensic Laboratory - Evidence Receiving to Hodgson, Kolton at Lansing Forensic Laboratory - Evidence Receiving.
	For Storage
2/14/2020 10:16:04 AM	Placed in Storage at LS Outgoing Evidence Storage - {To NV/SH} by Hodgson, Kolton at Lansing Forensic Laboratory - Evidence Receiving
	For Storage

2/19/2020 8:21:28 AM	Removed from Storage by Vainner, Jessica at Lansing Forensic Laboratory - Evidence Receiving.
	For Transport
2/19/2020 11:14:16 AM	Personal Delivery from Vainner, Jessica at Lansing Forensic Laboratory - Evidence Receiving to Danner, Ronda at Northville Forensic Laboratory - Evidence Receiving.
	For Storage
2/19/2020 11:49:29 AM	Placed in Storage at NV Trace PR - Bin 07 by Danner, Ronda at Northville Forensic Laboratory - Evidence Receiving
	For Storage
3/24/2021 2:14:06 PM	Removed from Storage by Danner, Ronda at Northville Forensic Laboratory - Evidence Receiving.
	Requested By Officer
3/24/2021 2:14:06 PM	Returned to Officer Harpe, Gary from Hamburg Township Police Department. Returned by Danner, Ronda at Northville Forensic Laboratory - Evidence Receiving. Return method: Personal Delivery.
	Requested By Officer

Michigan State Police
Northville Forensic Laboratory

Case Report
NV20-41

Wednesday, 08 February 2023 04:01 PM

Case #NV20-41

Case Status: Closed
Offense: Arson
Jurisdiction: 47 - Livingston County
Court:
Statement of Facts:

Comments:

Open Date: January 06, 2020
Offense Date: November 19, 2019

☐ **Confidential Case**

Submission #1

Date Submitted: January 06, 2020
Lab: Northville Forensic Laboratory
Submission Type: Forensic Examination
Delivery Method: Personal Delivery
Primary Section: Trace Evidence Unit
Return Method: Personal Delivery

Agency Name	Type	ORI	Case #(s)
		MI4745100	1900914

Officer Name	Type	Phone Number	E-mail
Agency, Hamburg Twp PD	Carbon Copy	8102319391	hatp@hamburg.mi.us
Harpe, Gary	Investigating	810-222-1174	hatp@hamburg.mi.us
Harpe, Gary	Submitting	810-222-1174	hatp@hamburg.mi.us

Requested Exam(s): Trace Arson

Person/Business of Interest	Type	Gender	DOB	SID
Neumeier, Philip Gerhard		Male	06/24/1985	

Evidence	Description	Agency #
Container 1	1- Sealed metal can labeled "Sample #1" with PR# 33768 containing:	
Comments:		
Container 2	1- Sealed metal can labeled "Sample #2" with PR# 33769 containing:	
Comments:		
Item 1	Charred wood	
Comments:		
Item 2	Charred wood and debris	
Comments:		

Submission #2

Date Submitted: January 07, 2020
Lab: Northville Forensic Laboratory
Submission Type: Forensic Examination
Delivery Method: Personal Delivery
Primary Section: Trace Evidence Unit
Return Method: Personal Delivery

Agency Name	Type	ORI	Case #(s)
		MI4745100	1900914

Officer Name	Type	Phone Number	E-mail
Agency, Hamburg Twp PD	Carbon Copy	8102319391	hatp@hamburg.mi.us
Harpe, Gary	Investigating	810-222-1174	hatp@hamburg.mi.us
Harpe, Gary	Submitting	810-222-1174	hatp@hamburg.mi.us

Requested Exam(s): Trace Arson

Person/Business of Interest	Type	Gender	DOB	SID
Neumeier, Philip Gerhard		Male	06/24/1985	

Evidence	Description	Agency #
Container 3	1- Sealed metal can labeled "Sample #3" with PR# 33767 containing:	
Comments:		
Container 4	1- Heat-sealed nylon package containing the unanalyzed portion of carbon extracts in glass vials	
Comments:		
Item 3	Wood (comparison sample)	
Comments:		

Case Record #1

Case #: NV20-41 **Case Record #:** 1 ☐ **Confidential Case**

Status: Complete
Type: Forensics Exam
Examiner: Cervenak, Eric
Case Note:
Sequence: 100
Working Days: 0
Discipline #: A
Priority: 20
Backlog Priority:

Lab: Grand Rapids Forensic Laboratory
Section: Trace Evidence Unit
Submitted Date: 1/6/2020 11:19:47 AM
In Section Date: 1/10/2020 3:05:41 PM
Assignment Date: 2/5/2020 9:32:50 AM
Exam Start Date: 2/5/2020 9:44:32 AM
Exams Completed: 2/7/2020 11:32:04 AM
Due Date:
Worksheet Date:
Completion Date: 2/7/2020 11:42:27 AM

Comments:

Assignment History:

Transfer Date: 1/7/2020 9:52:33 AM

From: Northville Forensic Laboratory
To: Grand Rapids Forensic Laboratory
Status: Backlog - Waiting for Evidence
Reason: Manually Assigned
Comments:

Transfer Date: 2/5/2020 9:32:50 AM

From: Grand Rapids Forensic Laboratory
To: Cervenak, Eric
Grand Rapids Forensic Laboratory
Status: Backlog - Evidence Available
Reason: Manually Assigned
Comments:

Exam Type	Evidence	Description
Trace Arson		
Trace Arson		
Trace Arson		

Lab Report(s):

Report ID: 17527877 **Report Type:** Basic Report
Case #: NV20-41 **Record #:** 1 **Status:** Released
Report Date: 2/6/2020 3:39:30 PM **Release Date:** 2/7/2020 11:42:27 AM
Examiner: Cervenak, Eric
Typist: Cervenak, Eric
Comments:

Case Record Review(s):

Reivew Date: 2/7/2020 11:42:18 AM **Review Type:** Administrative
Case #: NV20-41 **Record #:** 1 **Status:** Completed
Requested Date: 2/7/2020 11:34:34 AM
Reviewed By: Ernst, Troy J.
Comments:
Review ID: 61ed3f2d-32f3-4184-a9ad-5760c267dcaa

Reivew Date: 2/7/2020 11:36:55 AM **Review Type:** Technical
Case #: NV20-41 **Record #:** 1 **Status:** Completed
Requested Date: 2/7/2020 11:32:05 AM
Reviewed By: Streeter, Kevin D
Comments:
Review ID: e9bcc41f-f7ef-4ec0-a34c-88562ec26ab6

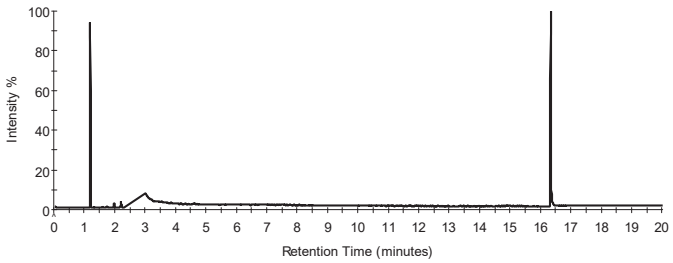
Reivew Date: 2/7/2020 11:15:55 AM **Review Type:** Technical
Case #: NV20-41 **Record #:** 1 **Status:** Completed
Requested Date: 2/7/2020 10:15:58 AM
Reviewed By: Streeter, Kevin D
Comments:
Review ID: 0c9d61ae-f19b-444e-8a4d-bc3e52f8ac9d

* * * * * * * * * * End of Report * * * * * * * * * *

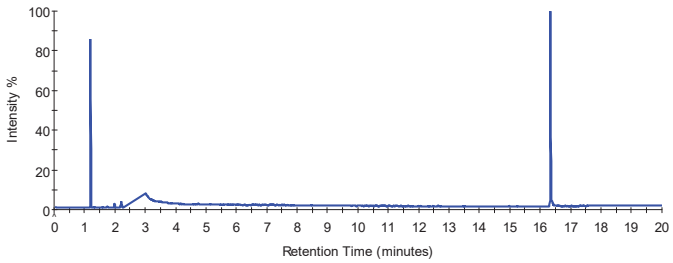
Sequence

File Name	Sample Id	Vial	Date Collected
NV20-41_cs2-pre-atm.swx	CS2 blank	Tray01:1	05 February 2020 17:13:08
NV20-41_atm.swx	Atmosphere control	Tray01:8	05 February 2020 17:48:18
NV20-41_cs2-pre-sys.swx	CS2 blank	Tray01:1	05 February 2020 18:24:20
NV20-41_sys.swx	System control	Tray01:9	05 February 2020 19:00:11
NV20-41_cs2-pre-1.swx	CS2 blank	Tray01:1	05 February 2020 19:35:07
NV20-41_lt_1.swx	Item 1	Tray01:10	05 February 2020 20:10:57
NV20-41_cs2-pre-2.swx	CS2 blank	Tray01:1	05 February 2020 20:48:55
NV20-41_lt_2.swx	Item 2	Tray01:11	05 February 2020 21:24:29
NV20-41_cs2-pre-3.swx	CS2 blank	Tray01:1	05 February 2020 22:00:09
NV20-41_lt_3.swx	Item 3	Tray01:12	05 February 2020 22:36:15
endrun-cs2.swx	CS2 blank	Tray01:1	05 February 2020 23:11:38

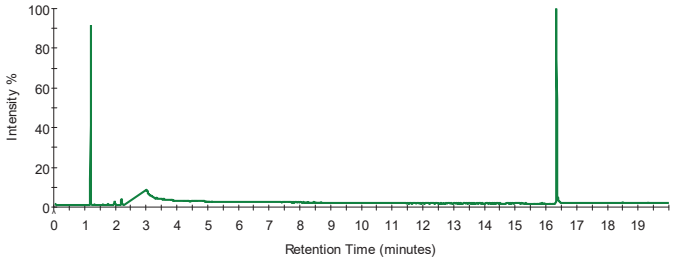
[1] TIC NL:4.75E+07, NV20-41_cs2-pre-atm.swx



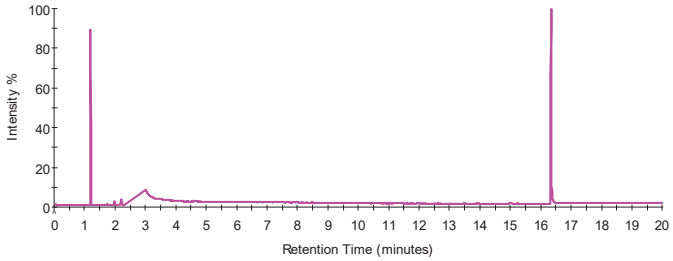
[2] TIC NL:4.61E+07, NV20-41_cs2-pre-sys.swx



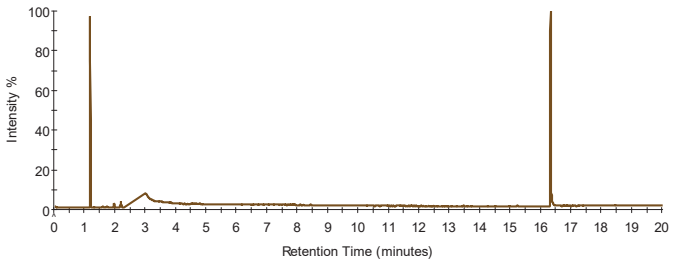
[3] TIC NL:4.41E+07, NV20-41_cs2-pre-1.swx



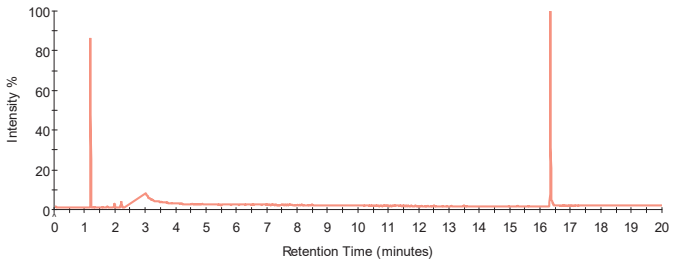
[4] TIC NL:4.53E+07, NV20-41_cs2-pre-2.swx



[5] TIC NL:4.31E+07, NV20-41_cs2-pre-3.swx

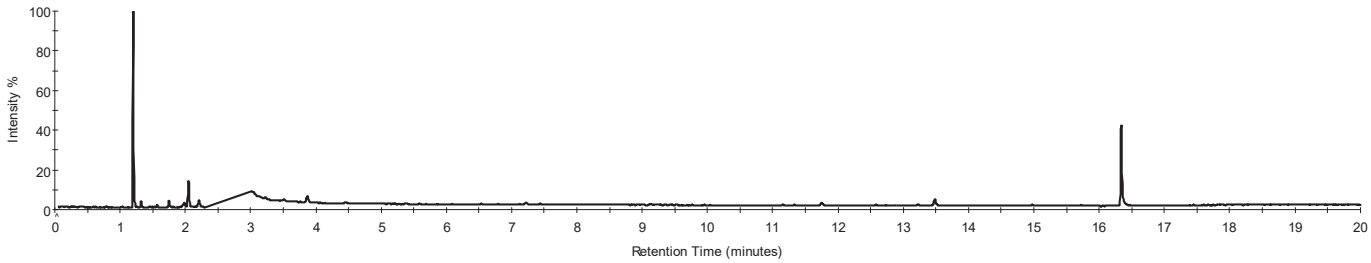


[6] TIC NL:4.85E+07, endrun-cs2.swx

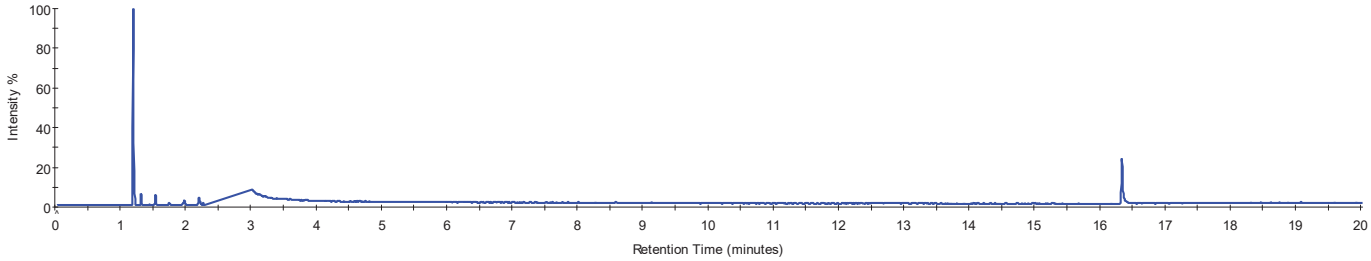


Report Printed 2/6/2020

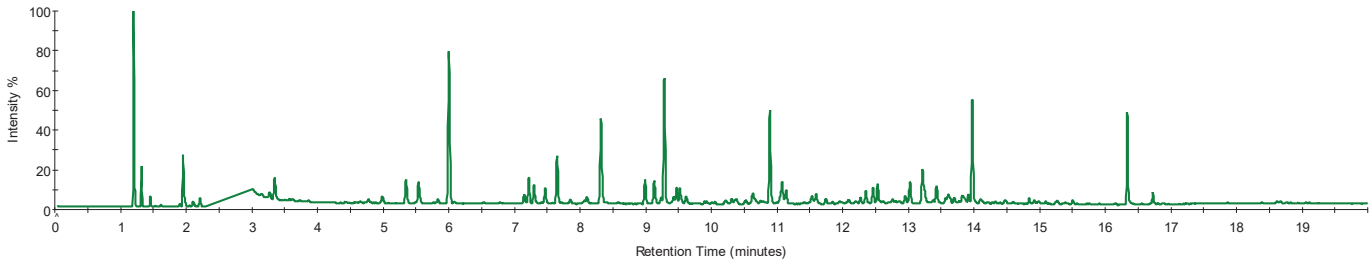
[1] TIC NL: 4.21E+07, NV20-41_atm.swx



[2] TIC NL: 4.39E+07, NV20-41_sys.swx

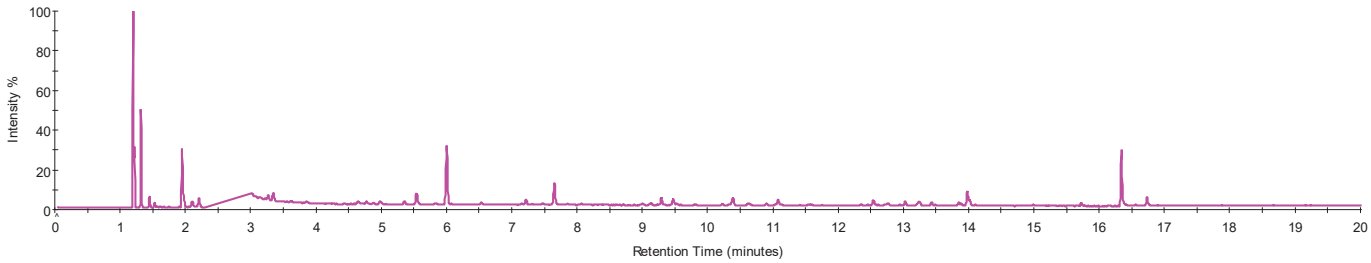


[3] TIC NL: 3.78E+07, NV20-41_It_1.swx

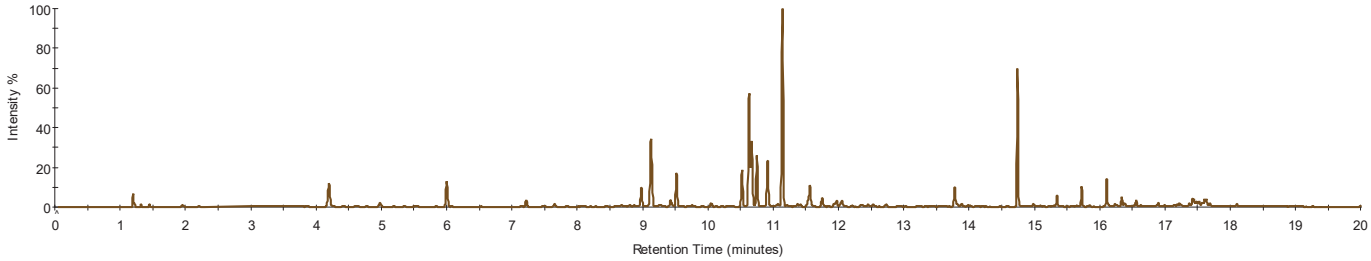


Report Printed 2/6/2020

[4] TIC NL: 4.44E+07, NV20-41_It_2.swx

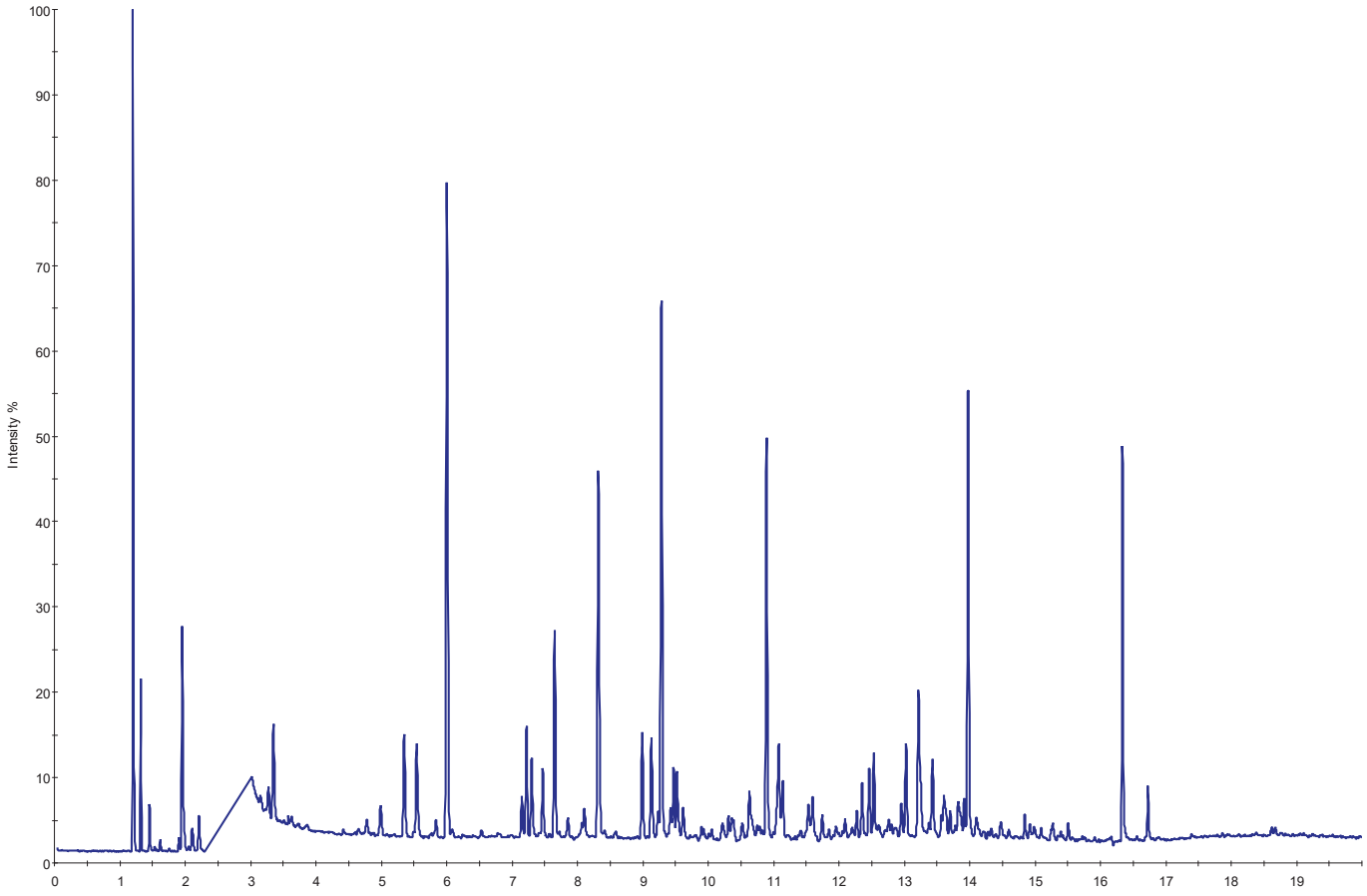


[5] TIC NL: 5.70E+08, NV20-41_It_3.swx



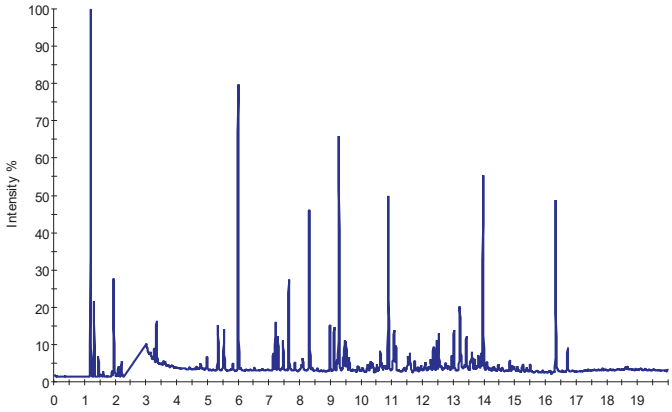
Report Printed 2/6/2020

TIC Spectragram
NV20-41_It_1.swx, NL: 3.78E+07

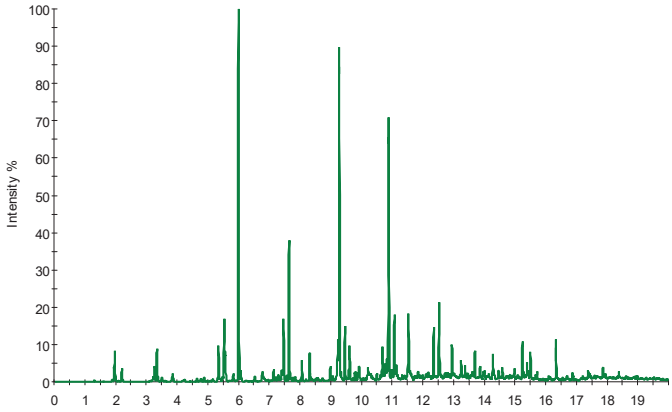


Report Printed 2/6/2020

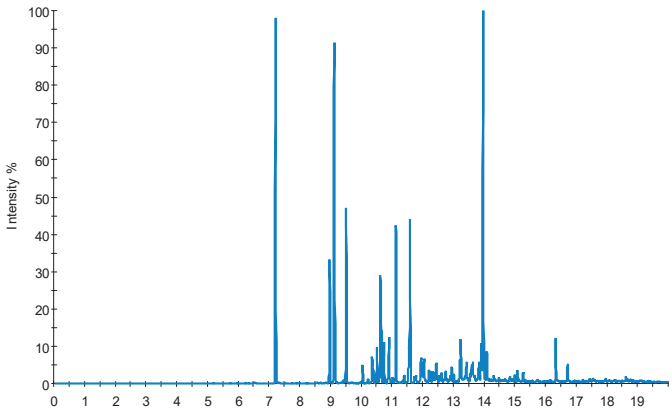
TIC Spectragram
NV20-41_It_1.swx, NL:3.78E+07



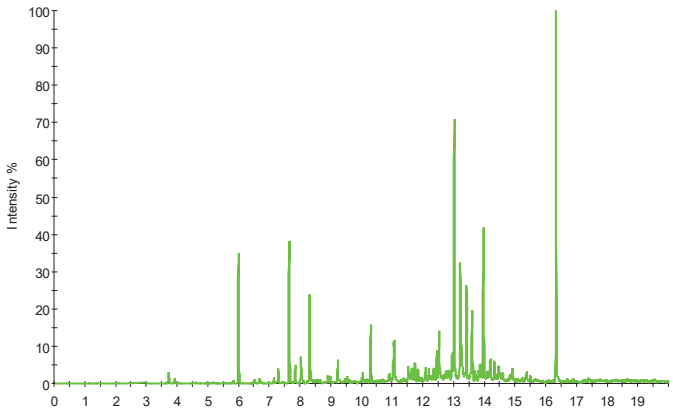
Alkanes [57,71,85,99] Spectragram
NV20-41_It_1.swx, NL:2.32E+06



Aromatics [91,105,119,134] Spectragram
NV20-41_It_1.swx, NL:2.13E+06

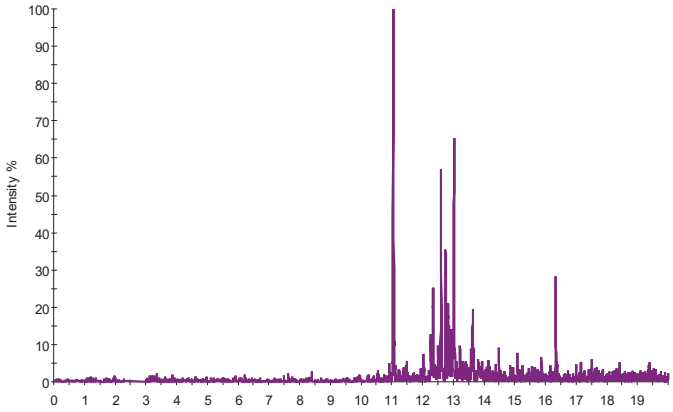


Cyclic alkanes [82,83] Spectragram
NV20-41_It_1.swx, NL:1.16E+06

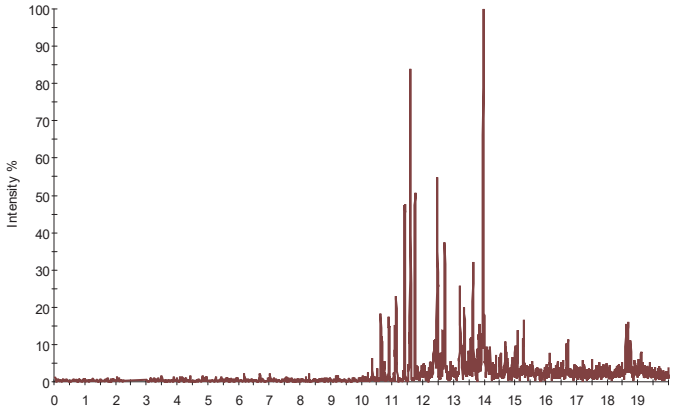


Report Printed 2/6/2020

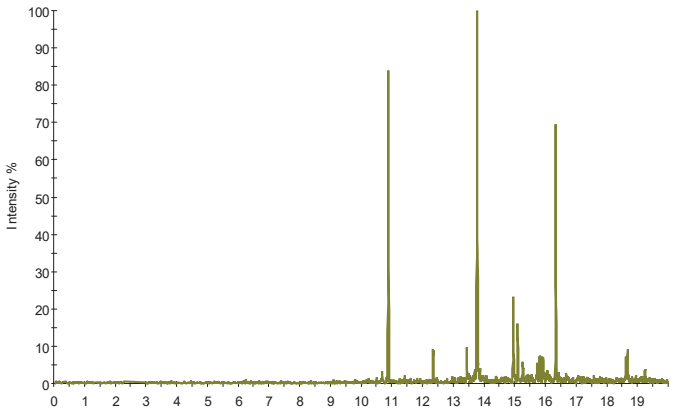
Decahydronaphthalene [138] Spectragram
NV20-41_It_1.swx, NL:6.48E+04



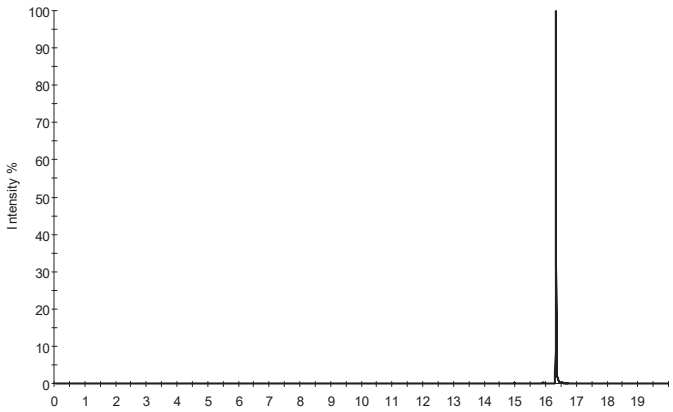
Indanes [117,131] Spectragram
NV20-41_It_1.swx, NL:1.24E+05



Naphthalene [128,142,156] Spectragram
NV20-41_It_1.swx, NL:2.63E+05

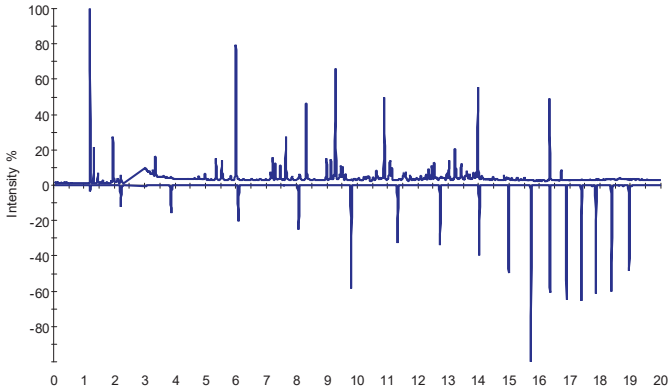


4-phenyltoluene [167,168] Spectragram
NV20-41_It_1.swx, NL:7.27E+06

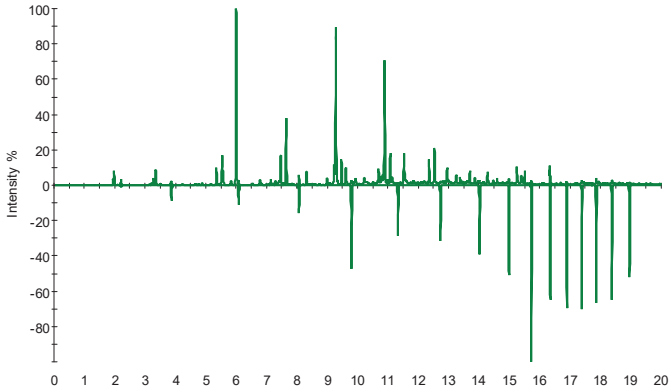


Report Printed 2/6/2020

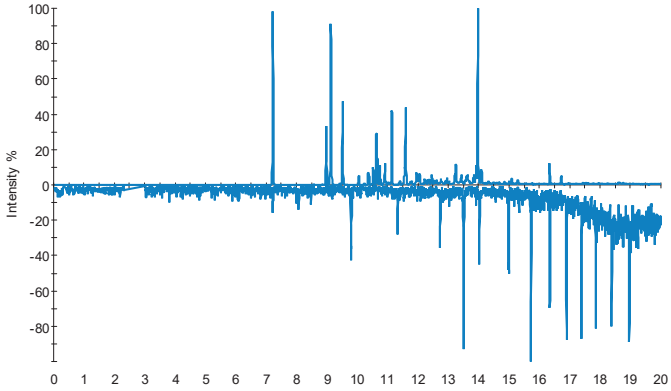
TIC Spectragram
NV20-41_It_1.swx, NL:3.78E+07
std_c5_c20_266a.swx, NL:1.20E+09



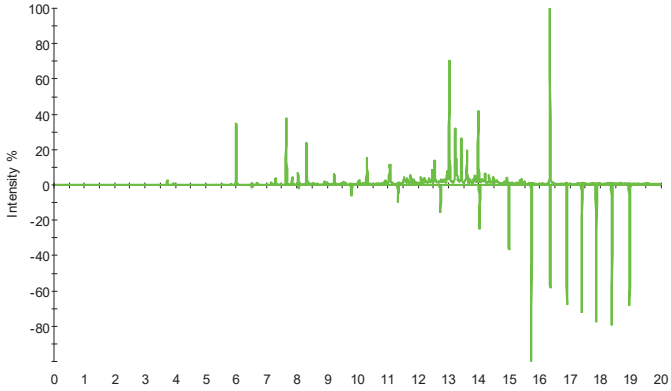
Alkanes [57,71,85,99] Spectragram
NV20-41_It_1.swx, NL:2.32E+06
std_c5_c20_266a.swx, NL:5.01E+08



Aromatics [91,105,119,134] Spectragram
NV20-41_It_1.swx, NL:2.13E+06
std_c5_c20_266a.swx, NL:1.11E+05

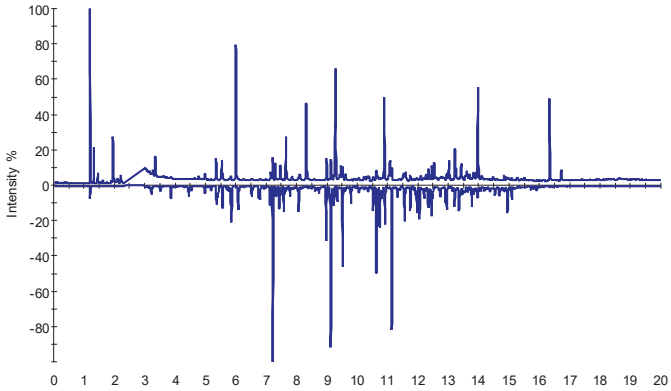


Cyclic alkanes [82,83] Spectragram
NV20-41_It_1.swx, NL:1.16E+06
std_c5_c20_266a.swx, NL:1.88E+07

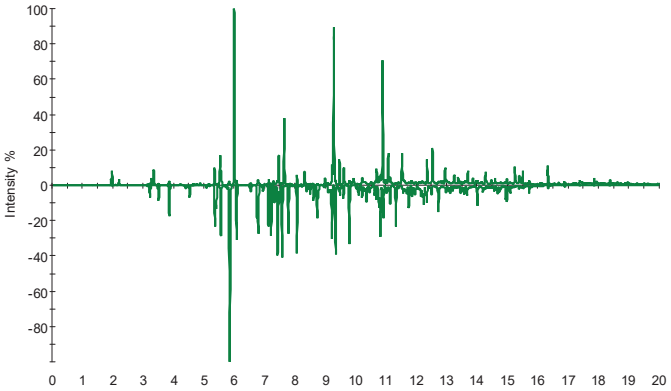


Report Printed 2/6/2020

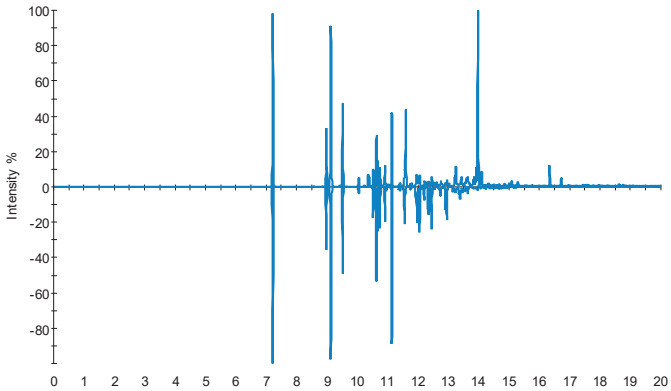
TIC Spectragram
NV20-41_It_1.swx, NL:3.78E+07
gas_gas70_88a.swx, NL:4.16E+08



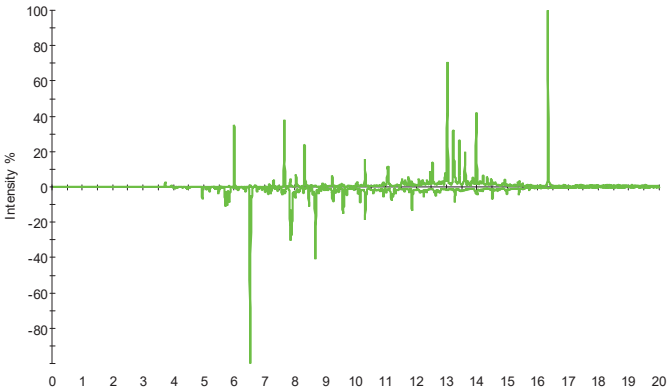
Alkanes [57,71,85,99] Spectragram
NV20-41_It_1.swx, NL:2.32E+06
gas_gas70_88a.swx, NL:4.02E+07



Aromatics [91,105,119,134] Spectragram
NV20-41_It_1.swx, NL:2.13E+06
gas_gas70_88a.swx, NL:1.69E+08



Cyclic alkanes [82,83] Spectragram
NV20-41_It_1.swx, NL:1.16E+06
gas_gas70_88a.swx, NL:5.44E+06



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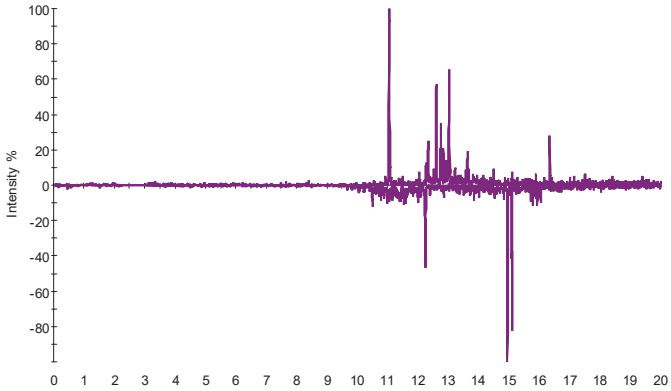
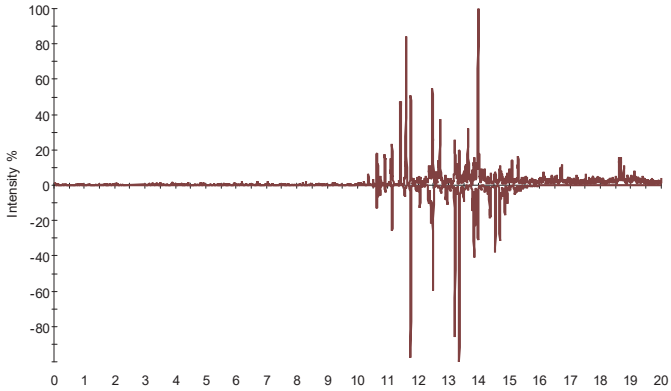
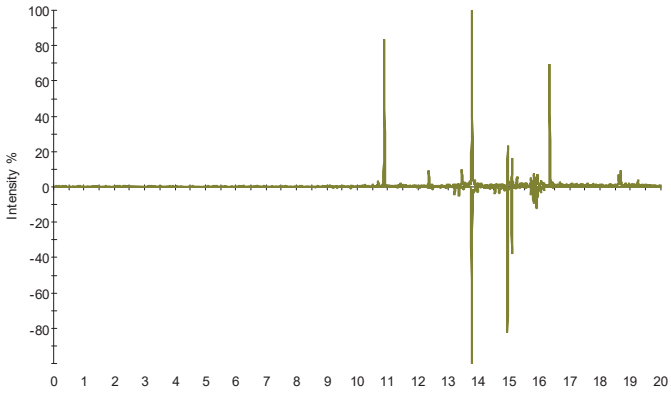
Decahydronaphthalene [138] Spectragram
NV20-41_It_1.swx, NL: 6.48E+04
gas_gas70_88a.swx, NL: 1.97E+05



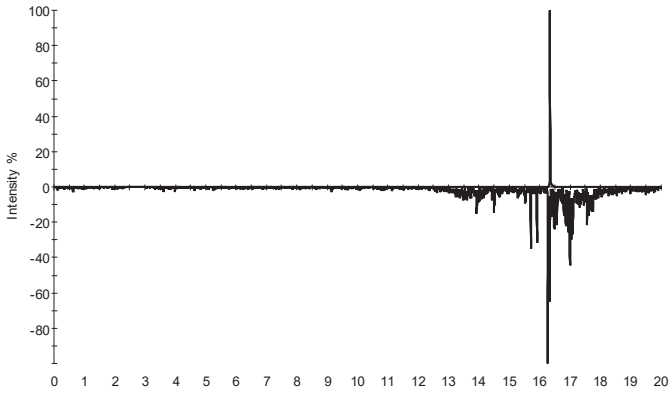
Indanes [117,131] Spectragram
NV20-41_It_1.swx, NL: 1.24E+05
gas_gas70_88a.swx, NL: 1.63E+07



Naphthalene [128,142,156] Spectragram
NV20-41_It_1.swx, NL: 2.63E+05
gas_gas70_88a.swx, NL: 2.02E+07



4-phenyltoluene [167,168] Spectragram
NV20-41_It_1.swx, NL: 7.27E+06
gas_gas70_88a.swx, NL: 1.94E+05



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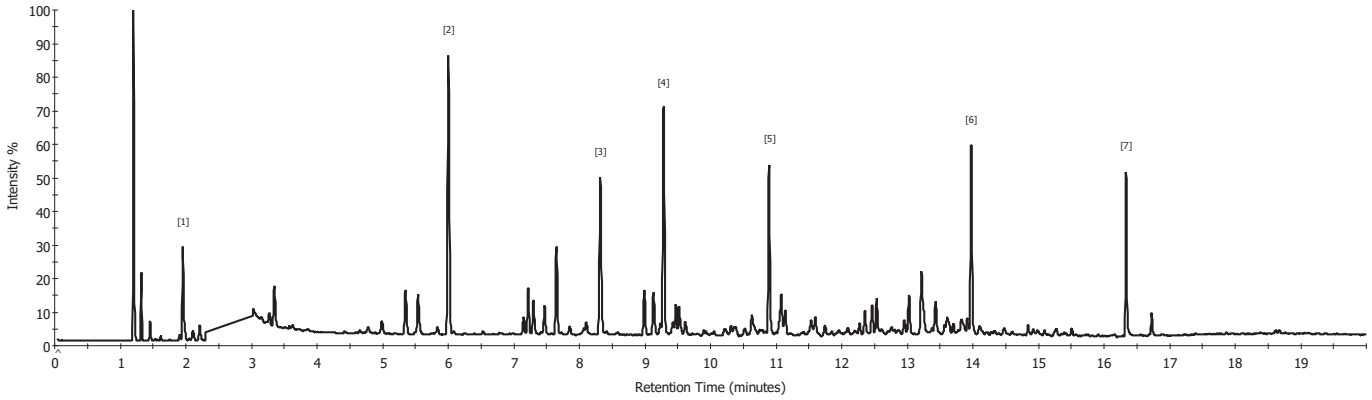
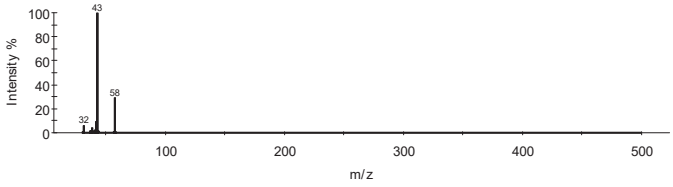
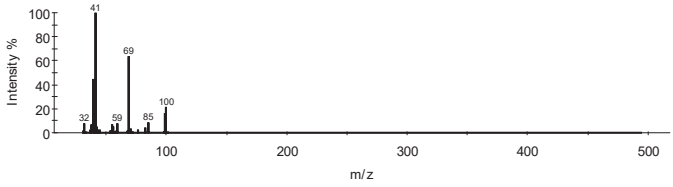
TIC NV20-41_It_1.swx



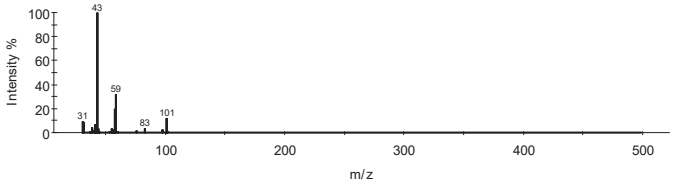
[1] NL:6.36E+06, NV20-41_It_1.swx RT:1.9518 #577



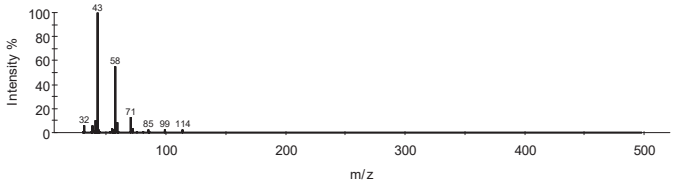
[2] NL:8.67E+06, NV20-41_It_1.swx RT:6.0039 #1584



[3] NL:7.58E+06, NV20-41_It_1.swx RT:8.3201 #2284



[4] NL:1.03E+07, NV20-41_It_1.swx RT:9.2826 #2575



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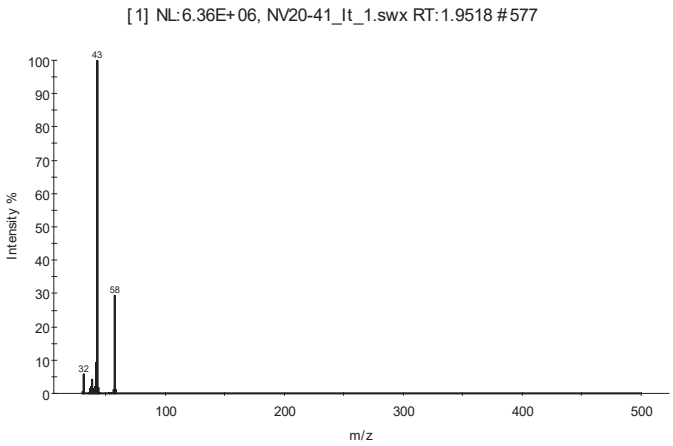
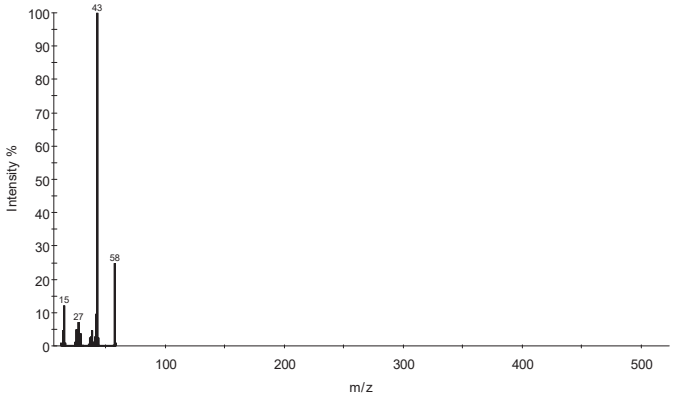


Hit	SI	RSI	Prob	Name	Library
1	925	943	87.71	Acetone	NISTDEMO
2	925	943	87.71	Acetone	replib2
3	922	960	87.71	Acetone	replib
4	922	936	87.71	Acetone	MAINLIB
5	922	926	87.71	Acetone	replib
6	911	916	87.71	Acetone	replib
7	896	896	87.71	Acetone	replib2
8	896	896	87.71	Acetone	replib
9	886	910	87.71	Acetone	replib
10	876	904	87.71	Acetone	replib2

Acetone, CAS# 67-64-1



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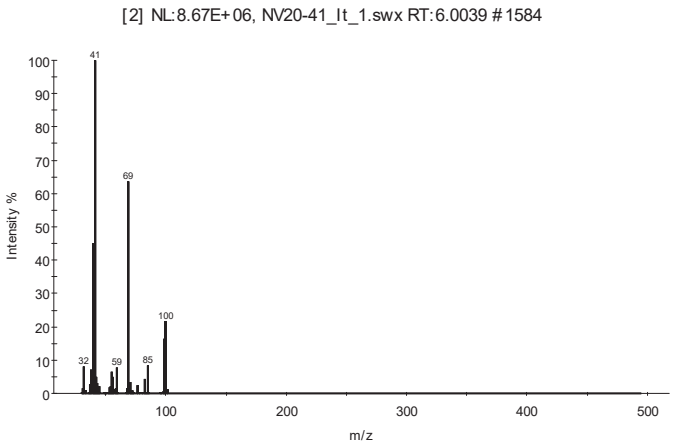
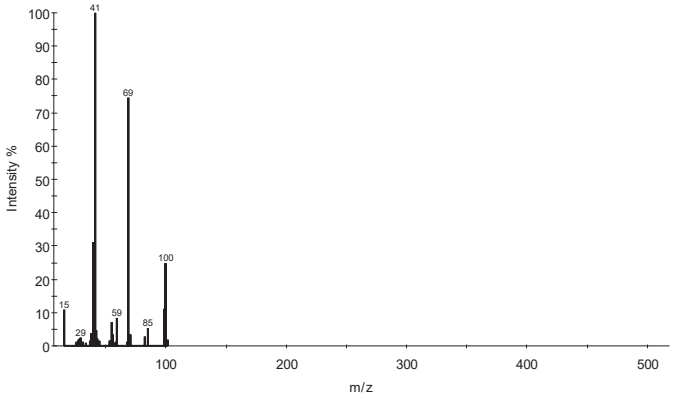
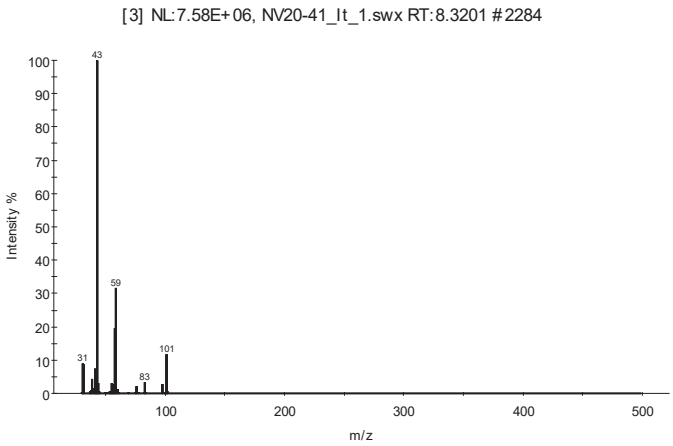


Hit	SI	RSI	Prob	Name	Library
1	915	941	86.80	Methyl methacrylate	replib
2	903	910	86.80	Methyl methacrylate	replib
3	903	910	86.80	2-Propenoic acid, 2-methyl-, methyl	replib2
4	894	908	86.80	2-Propenoic acid, 2-methyl-, methyl	MAINLIB
5	894	908	86.80	2-Propenoic acid, 2-methyl-, methyl	NISTDEMO
6	894	908	86.80	Methyl methacrylate	replib
7	861	867	86.80	2-Propenoic acid, 2-methyl-, methyl	replib2
8	861	867	86.80	Methyl methacrylate	replib
9	801	925	5.27	2-Butenoic acid, methyl ester	replib
10	786	799	3.19	2-Propenoic acid, 2-methyl-,	replib2

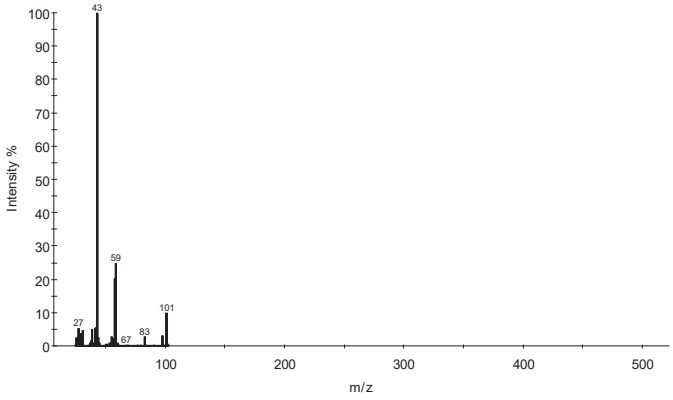
Methyl methacrylate, CAS# 80-62-6





Hit	SI	RSI	Prob	Name	Library
1	911	932	96.58	2-Pentanone, 4-hydroxy-4-methyl-	MAINLIB
2	911	932	96.58	2-Pentanone, 4-hydroxy-4-methyl-	NISTDEMO
3	905	936	96.58	2-Pentanone, 4-hydroxy-4-methyl-	replib
4	882	930	96.58	2-Pentanone, 4-hydroxy-4-methyl-	replib2
5	882	891	96.58	2-Pentanone, 4-hydroxy-4-methyl-	replib2
6	882	891	96.58	2-Pentanone, 4-hydroxy-4-methyl-	replib
7	875	908	96.58	2-Pentanone, 4-hydroxy-4-methyl-	replib2
8	875	908	96.58	2-Pentanone, 4-hydroxy-4-methyl-	replib
9	818	830	96.58	2-Pentanone, 4-hydroxy-4-methyl-	replib2
10	818	830	96.58	2-Pentanone, 4-hydroxy-4-methyl-	replib

2-Pentanone, 4-hydroxy-4-methyl-, CAS# 123-42-2



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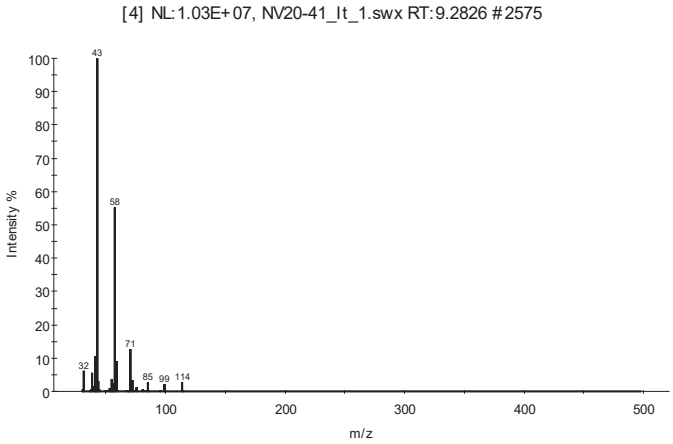
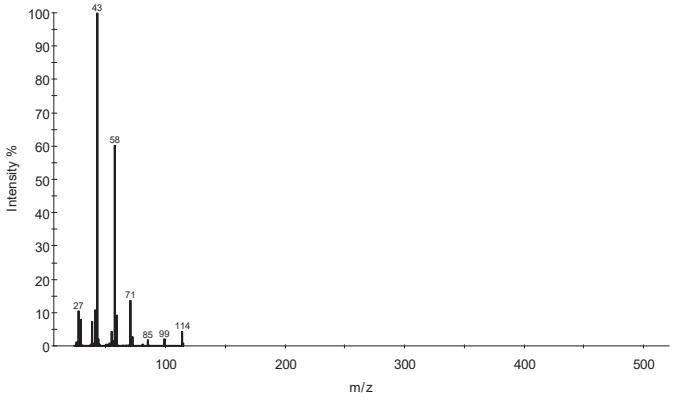


Hit	SI	RSI	Prob	Name	Library
1	900	912	65.59	2-Heptanone	replib2
2	900	912	65.59	2-Heptanone	replib
3	895	934	65.59	2-Heptanone	replib
4	894	898	65.59	2-Heptanone	MAINLIB
5	894	898	65.59	2-Heptanone	NISTDEMO
6	880	884	65.59	2-Heptanone	replib2
7	880	884	65.59	2-Heptanone	replib
8	850	873	13.34	2-Hexanone, 4-methyl-	replib2
9	850	873	13.34	2-Hexanone, 4-methyl-	replib
10	845	850	13.34	2-Hexanone, 4-methyl-	MAINLIB

2-Heptanone, CAS# 110-43-0



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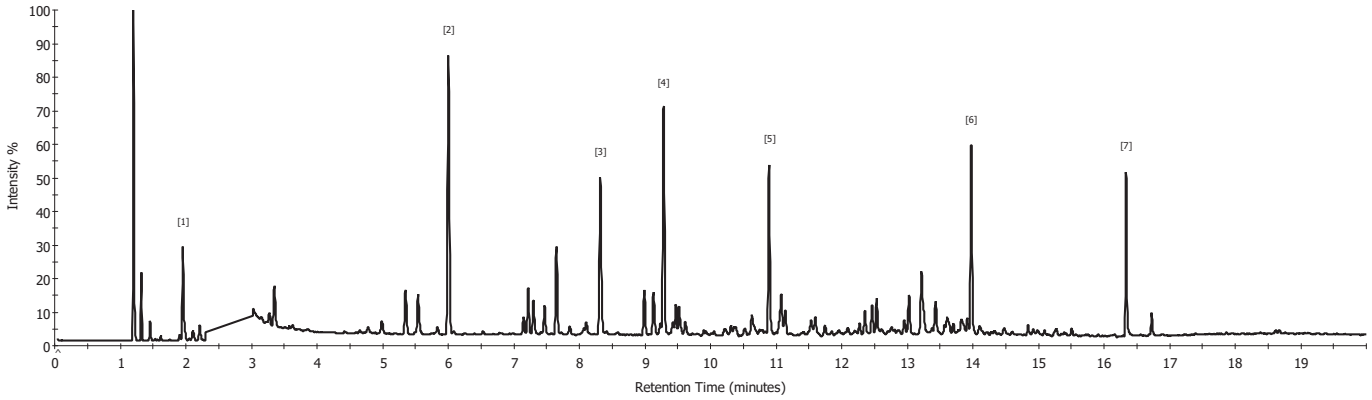
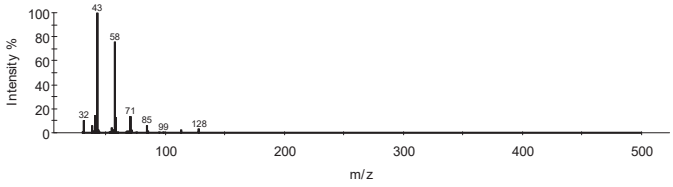
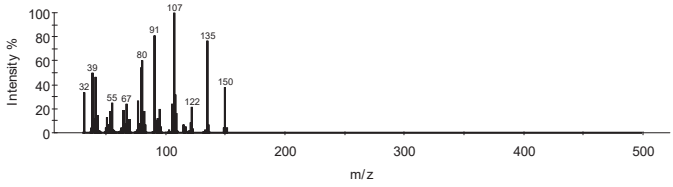
TIC NV20-41_It_1.swx



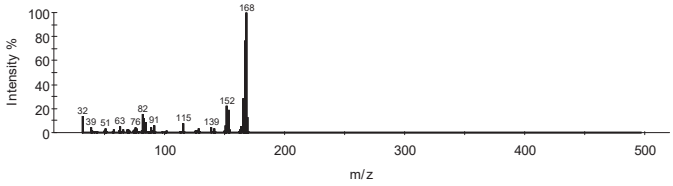
[5] NL:6.57E+06, NV20-41_It_1.swx RT:10.8906 #3061



[6] NL:1.98E+06, NV20-41_It_1.swx RT:13.9742 #3993



[7] NL:4.11E+06, NV20-41_It_1.swx RT:16.3367 #4707



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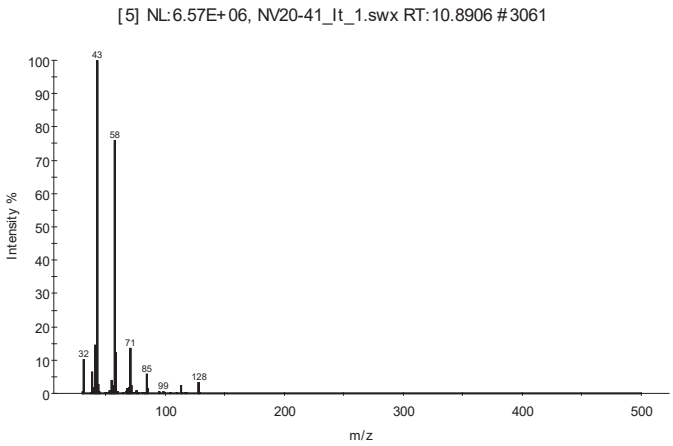
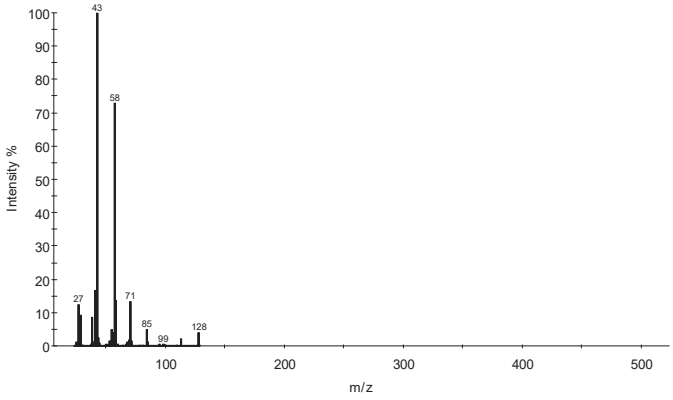


Hit	SI	RSI	Prob	Name	Library
1	905	920	76.80	2-Octanone	replib2
2	889	897	76.80	2-Octanone	replib2
3	889	897	76.80	2-Octanone	replib
4	881	896	76.80	2-Octanone	MAINLIB
5	881	896	76.80	2-Octanone	NISTDEMO
6	881	896	76.80	2-Octanone	replib
7	874	889	76.80	2-Octanone	replib2
8	874	889	76.80	2-Octanone	replib
9	856	859	76.80	2-Octanone	replib2
10	856	859	76.80	2-Octanone	replib

2-Octanone, CAS# 111-13-7



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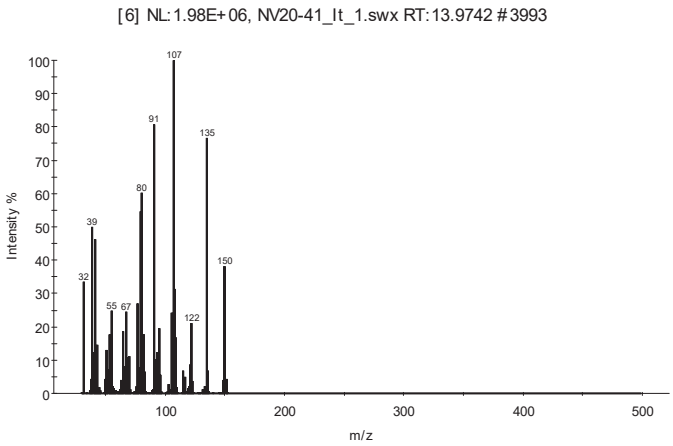
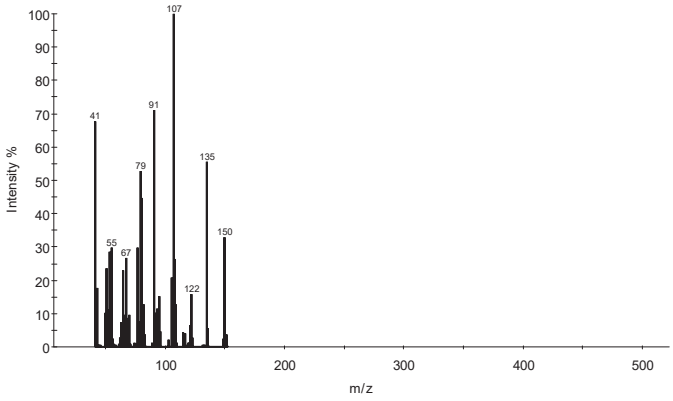


Hit	SI	RSI	Prob	Name	Library
1	944	956	65.12	Bicyclo[3.1.1]hept-3-en-2-one,	replib2
2	944	956	65.12	Bicyclo[3.1.1]hept-3-en-2-one,	replib
3	916	926	18.80	Bicyclo[3.1.1]hept-3-en-2-one,	replib
4	915	940	18.80	Bicyclo[3.1.1]hept-3-en-2-one,	replib
5	910	918	18.80	Bicyclo[3.1.1]hept-3-en-2-one,	replib2
6	910	918	18.80	Bicyclo[3.1.1]hept-3-en-2-one,	replib
7	901	922	11.39	Bicyclo[3.1.1]hept-2-en-6-one,	replib
8	896	898	18.80	Bicyclo[3.1.1]hept-3-en-2-one,	replib
9	896	898	18.80	Bicyclo[3.1.1]hept-3-en-2-one,	replib2
10	895	913	65.12	Bicyclo[3.1.1]hept-3-en-2-one,	replib

Bicyclo[3.1.1]hept-3-en-2-one, 4,6,6-trimethyl-, (1S)-, CAS# 1196-01-6



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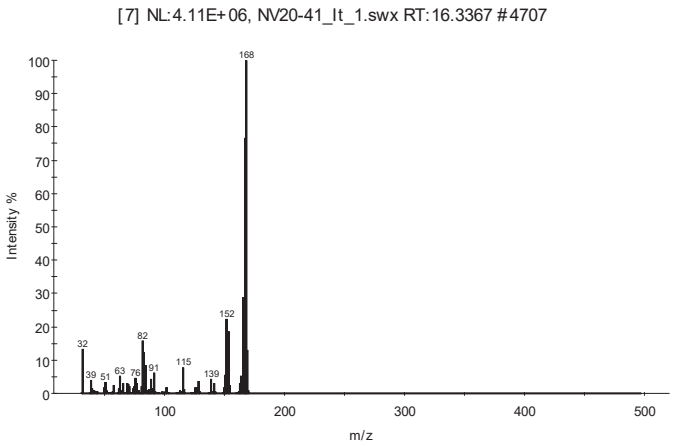
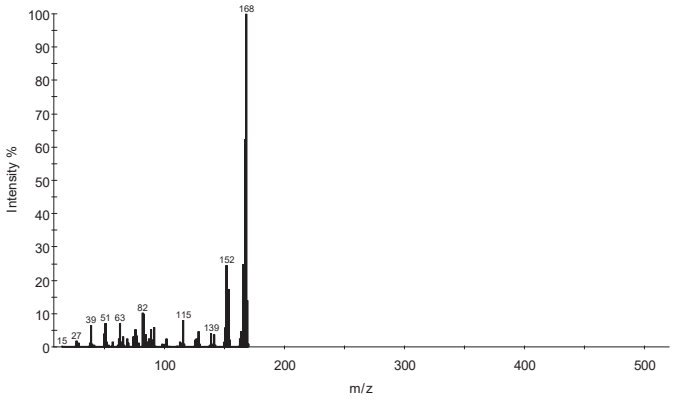


Hit	SI	RSI	Prob	Name	Library
1	924	932	26.77	1,1'-Biphenyl, 3-methyl-	replib
2	924	932	26.77	1,1'-Biphenyl, 3-methyl-	replib2
3	924	929	26.77	1,1'-Biphenyl, 4-methyl-	replib
4	924	929	26.77	1,1'-Biphenyl, 4-methyl-	replib2
5	919	925	21.58	1,1'-Biphenyl, 2-methyl-	replib
6	919	925	21.58	1,1'-Biphenyl, 2-methyl-	replib2
7	914	918	26.77	1,1'-Biphenyl, 4-methyl-	replib
8	914	918	26.77	1,1'-Biphenyl, 4-methyl-	replib2
9	912	916	26.77	1,1'-Biphenyl, 3-methyl-	replib
10	912	916	26.77	1,1'-Biphenyl, 3-methyl-	replib2

1,1'-Biphenyl, 3-methyl-, CAS# 643-93-6



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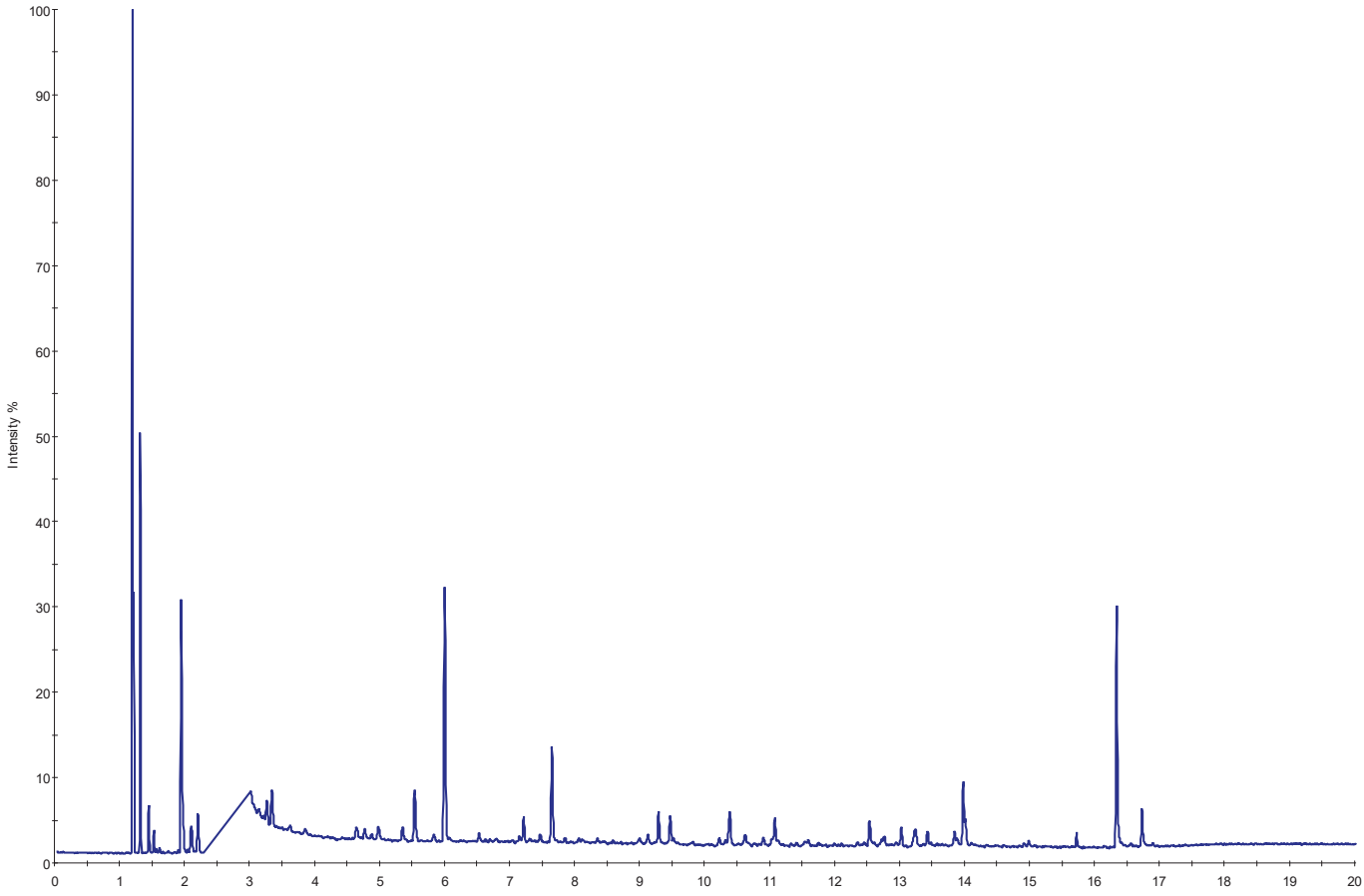
TIC Spectragram
NV20-41_It_2.swx, NL:4.44E+07



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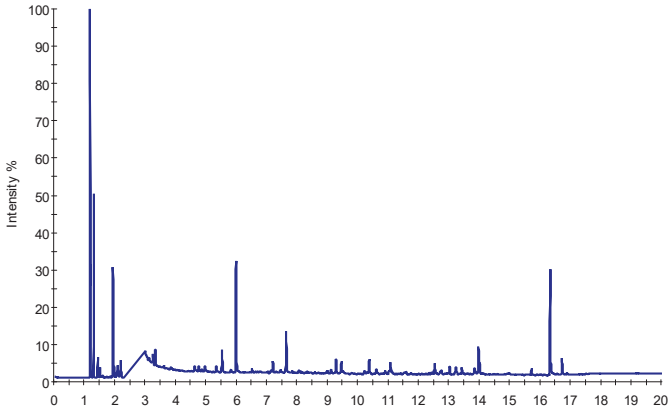
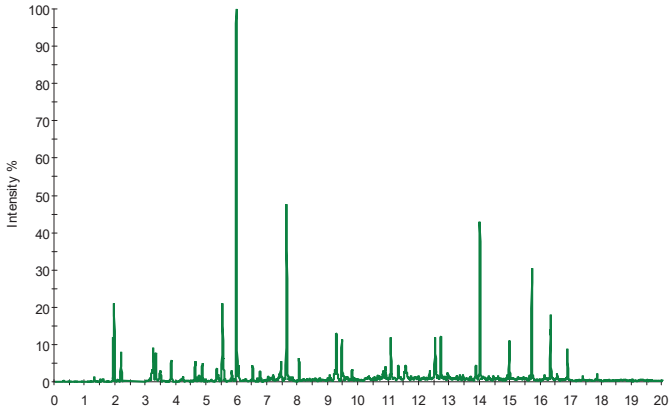
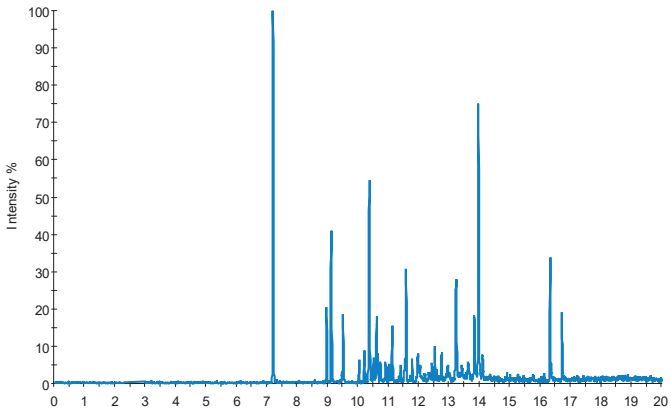
TIC Spectragram
NV20-41_It_2.swx, NL:4.44E+07



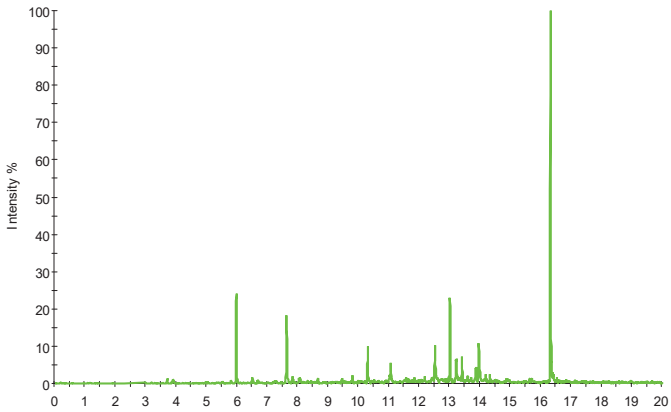
Alkanes [57,71,85,99] Spectragram
NV20-41_It_2.swx, NL:1.11E+06



Aromatics [91,105,119,134] Spectragram
NV20-41_It_2.swx, NL:4.98E+05



Cyclic alkanes [82,83] Spectragram
NV20-41_It_2.swx, NL:8.16E+05



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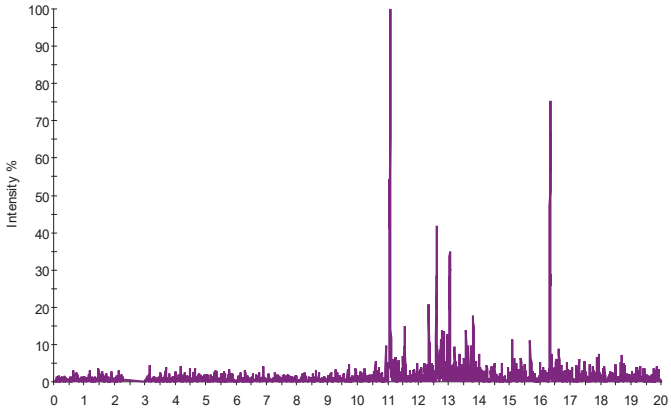
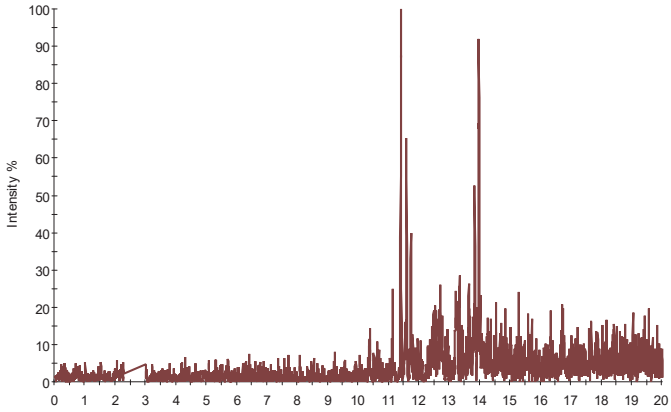
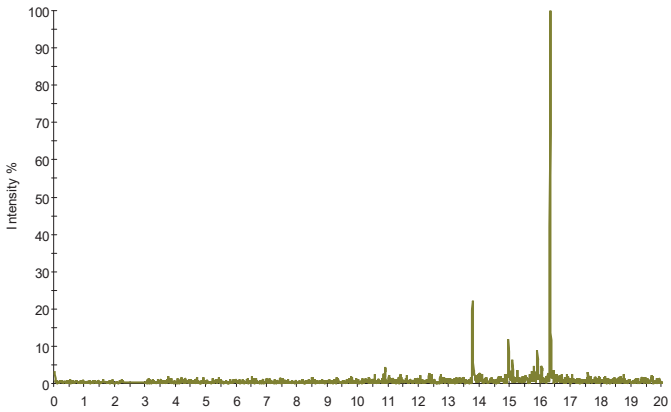
Decahydronaphthalene [138] Spectragram
NV20-41_It_2.swx, NL:2.69E+04



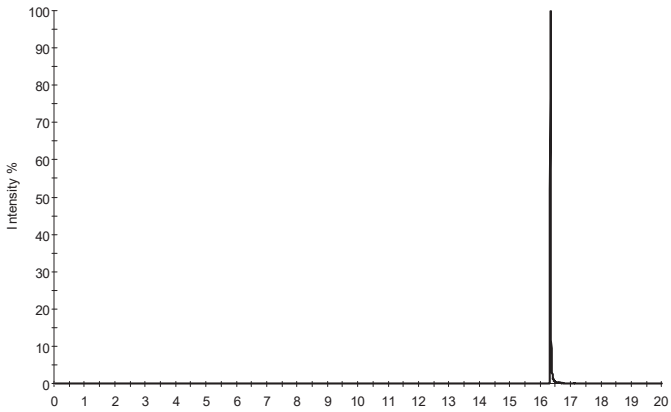
Indanes [117,131] Spectragram
NV20-41_It_2.swx, NL:2.90E+04



Naphthalene [128,142,156] Spectragram
NV20-41_It_2.swx, NL:1.35E+05



4-phenyltoluene [167,168] Spectragram
NV20-41_It_2.swx, NL:5.07E+06



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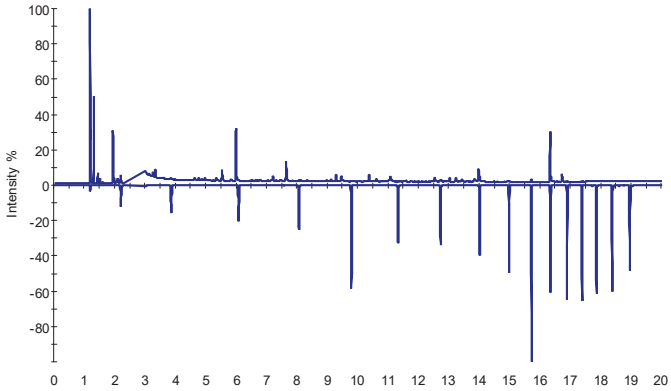
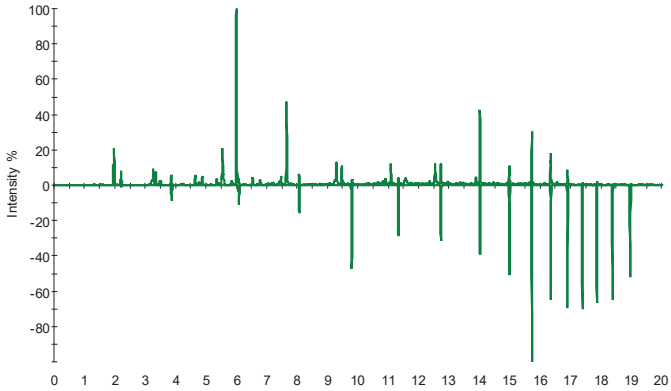
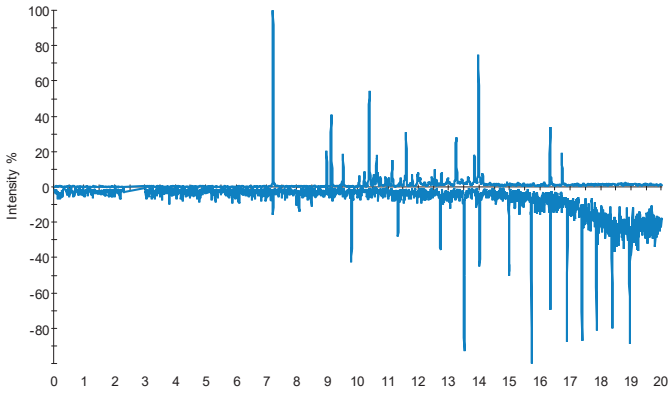
TIC Spectragram
NV20-41_It_2.swx, NL:4.44E+07
std_c5_c20_266a.swx, NL:1.20E+09



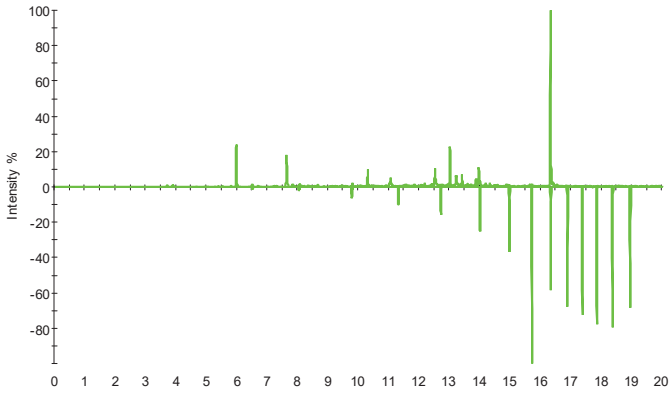
Alkanes [57,71,85,99] Spectragram
NV20-41_It_2.swx, NL:1.11E+06
std_c5_c20_266a.swx, NL:5.01E+08



Aromatics [91,105,119,134] Spectragram
NV20-41_It_2.swx, NL:4.98E+05
std_c5_c20_266a.swx, NL:1.11E+05



Cyclic alkanes [82,83] Spectragram
NV20-41_It_2.swx, NL:8.16E+05
std_c5_c20_266a.swx, NL:1.88E+07



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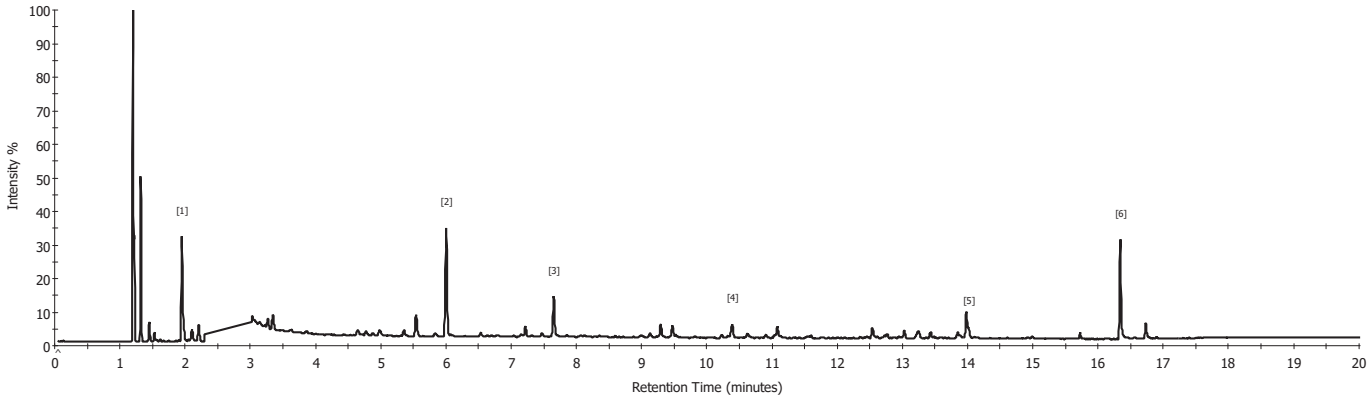
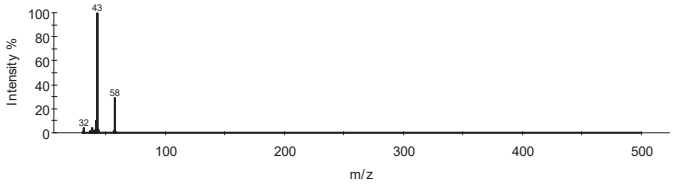
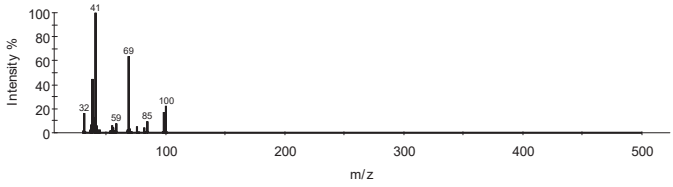
TIC NV20-41_It_2.swx



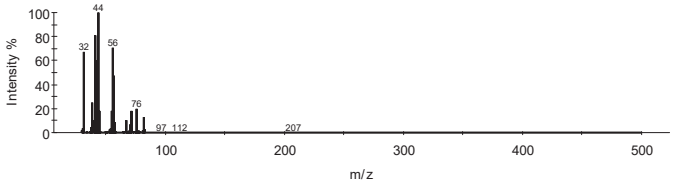
[1] NL: 8.32E+06, NV20-41_It_2.swx RT: 1.9526 #577



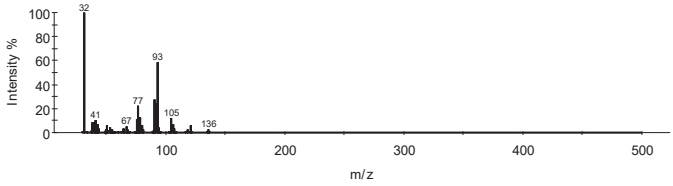
[2] NL: 3.96E+06, NV20-41_It_2.swx RT: 6.0016 #1582



[3] NL: 9.35E+05, NV20-41_It_2.swx RT: 7.6560 #2082



[4] NL: 6.41E+05, NV20-41_It_2.swx RT: 10.3922 #2909



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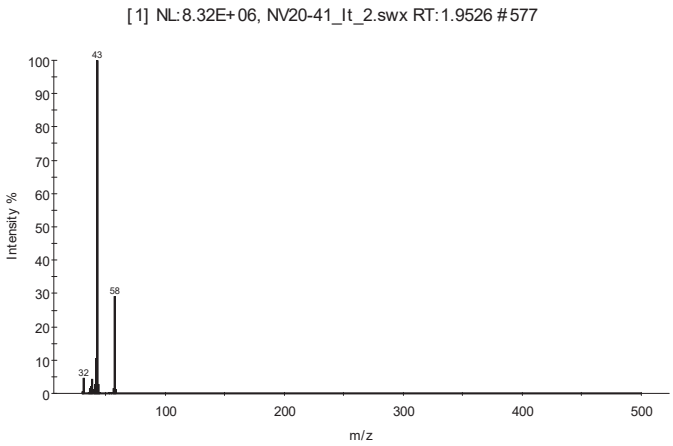
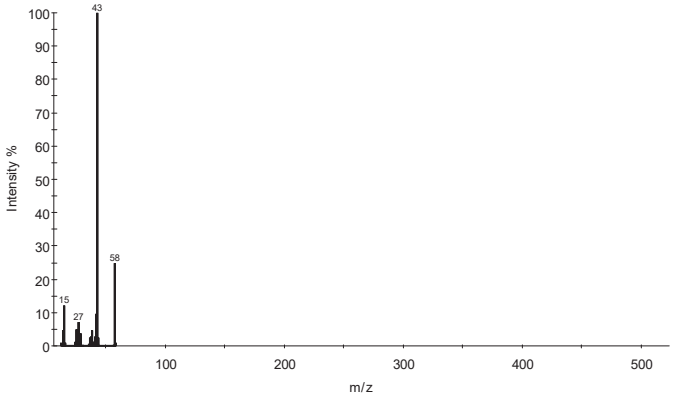


Hit	SI	RSI	Prob	Name	Library
1	932	945	91.98	Acetone	NISTDEMO
2	932	945	91.98	Acetone	replib2
3	922	956	91.98	Acetone	replib
4	910	935	91.98	Acetone	replib2
5	910	935	91.98	Acetone	replib
6	905	911	91.98	Acetone	replib
7	898	900	91.98	Acetone	replib
8	893	912	91.98	Acetone	replib
9	893	904	91.98	Acetone	MAINLIB
10	864	864	91.98	Acetone	replib2

Acetone, CAS# 67-64-1



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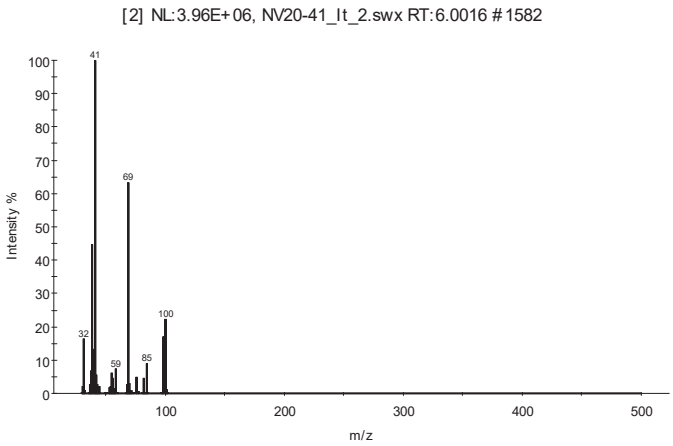
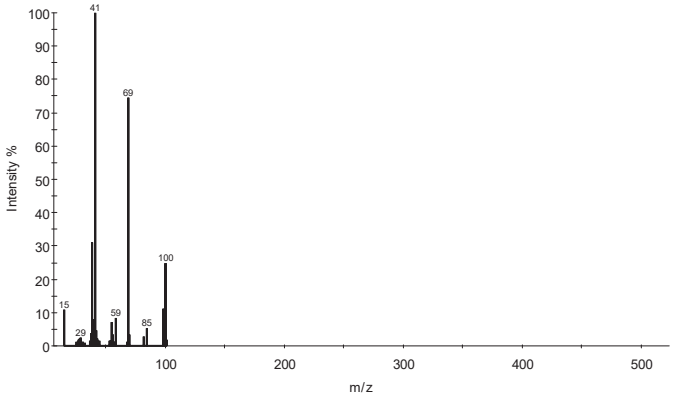
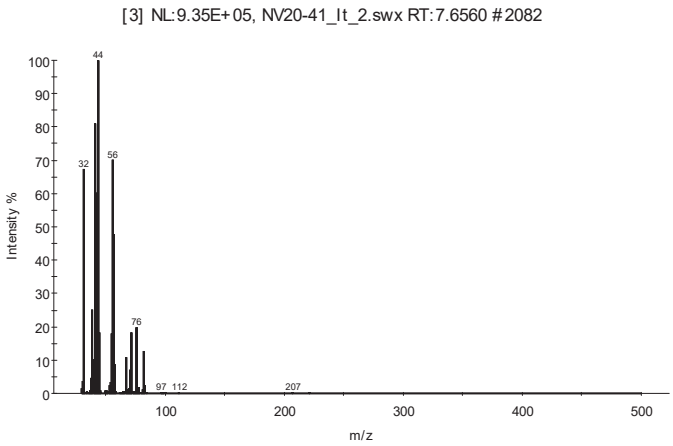


Hit	SI	RSI	Prob	Name	Library
1	896	936	88.43	Methyl methacrylate	replib
2	888	900	88.43	Methyl methacrylate	replib
3	888	900	88.43	2-Propenoic acid, 2-methyl-, methyl	replib2
4	878	903	88.43	2-Propenoic acid, 2-methyl-, methyl	MAINLIB
5	878	903	88.43	2-Propenoic acid, 2-methyl-, methyl	NISTDEMO
6	878	903	88.43	Methyl methacrylate	replib
7	833	842	88.43	2-Propenoic acid, 2-methyl-, methyl	replib2
8	833	842	88.43	Methyl methacrylate	replib
9	790	925	5.94	2-Butenoic acid, methyl ester	replib
10	767	791	2.17	2-Propenoic acid, 2-methyl-,	replib2

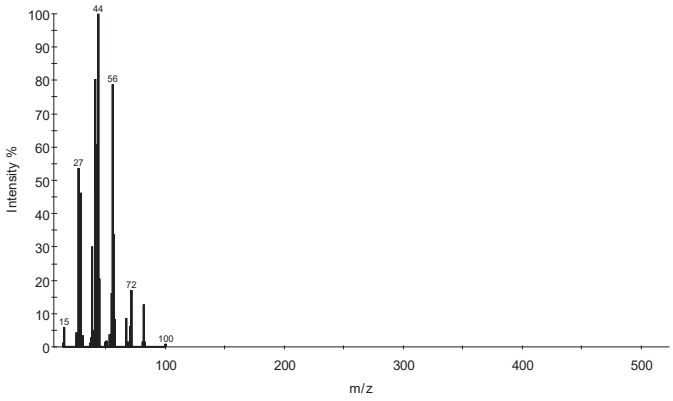
Methyl methacrylate, CAS# 80-62-6

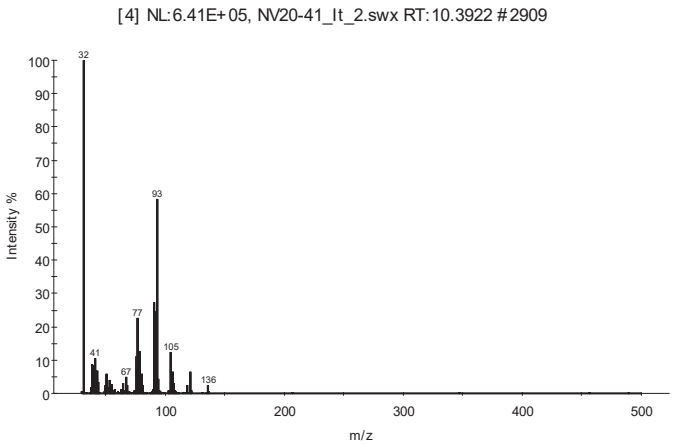




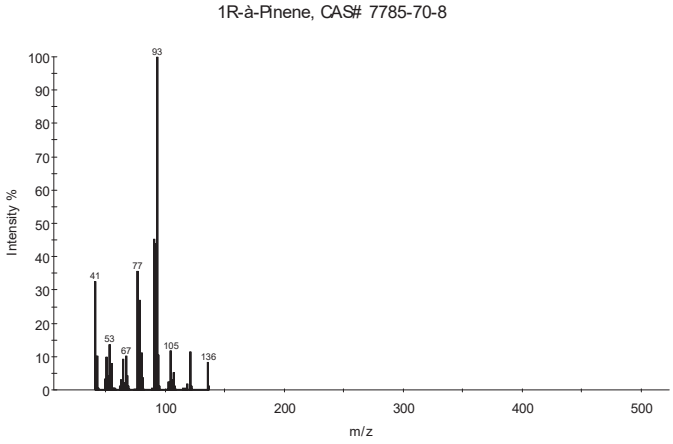
Hit	SI	RSI	Prob	Name	Library
1	845	933	87.94	Hexanal	replib
2	830	907	87.94	Hexanal	replib
3	812	882	87.94	Hexanal	replib2
4	812	882	87.94	Hexanal	replib
5	802	893	87.94	Hexanal	replib2
6	792	929	87.94	Hexanal	replib2
7	792	929	87.94	Hexanal	replib
8	789	819	87.94	Hexanal	MAINLIB
9	789	819	87.94	Hexanal	NISTDEMO
10	754	792	7.44	Cyclopentanol, 2-methyl-, cis-	replib

Hexanal, CAS# 66-25-1

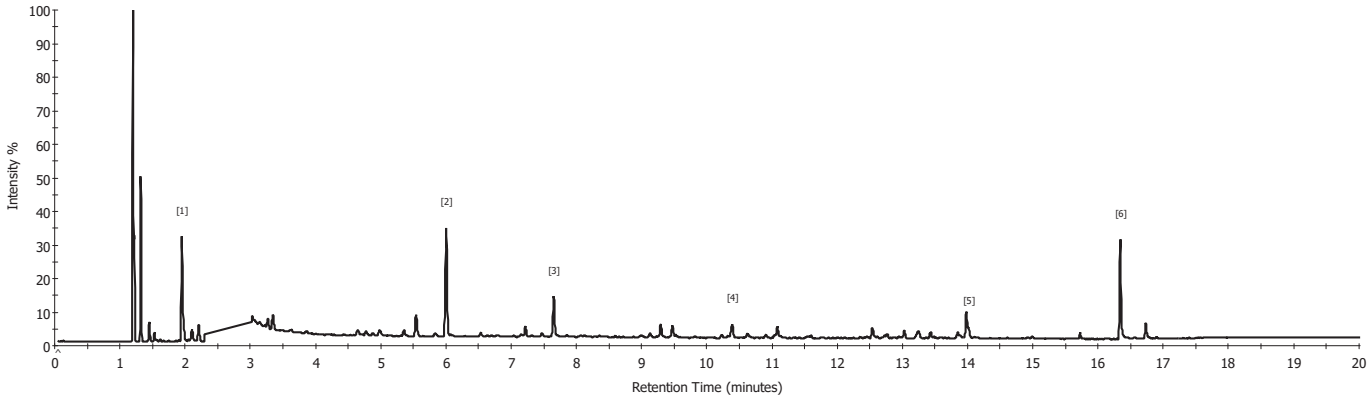




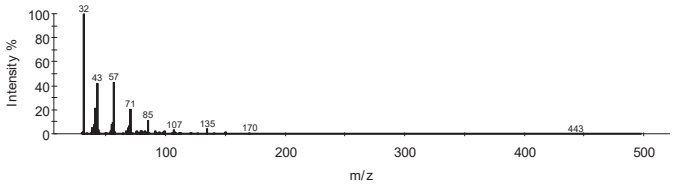
Hit	SI	RSI	Prob	Name	Library
1	844	879	53.96	1R-à-Pinene	replib2
2	770	844	7.18	1,3,6-Octatriene, 3,7-dimethyl-, (E)-	replib2
3	768	843	7.18	trans-á-Ocimene	replib
4	762	863	5.35	1S-à-Pinene	replib2
5	760	859	5.35	(1S)-2,6,6-Trimethylbicyclo[3.1.1]hept-	replib
6	760	828	4.94	à-Pinene	replib2
7	760	828	4.94	à-Pinene	replib
8	759	771	4.94	à-Pinene	replib2
9	759	794	4.75	Santolina triene	replib2
10	759	794	4.75	Santolina triene	replib



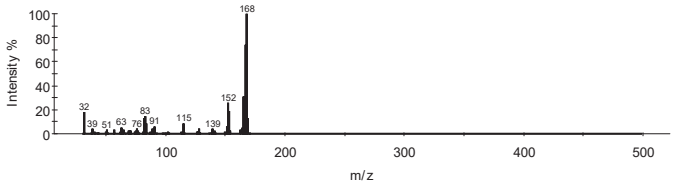
TIC NV20-41_It_2.swx



[5] NL:6.01E+05, NV20-41_It_2.swx RT:14.0182 #4005



[6] NL:2.91E+06, NV20-41_It_2.swx RT:16.3406 #4707



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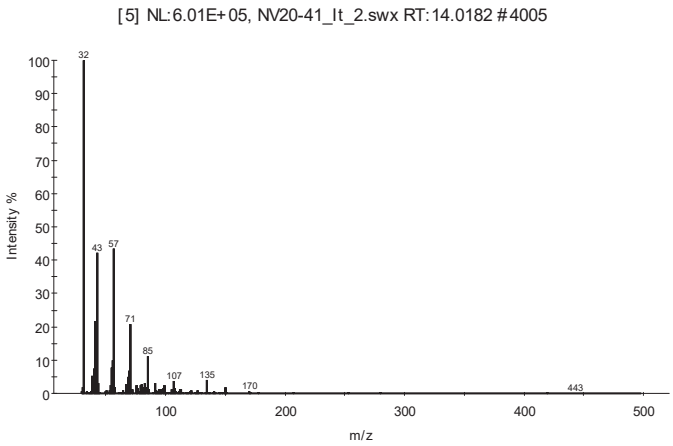
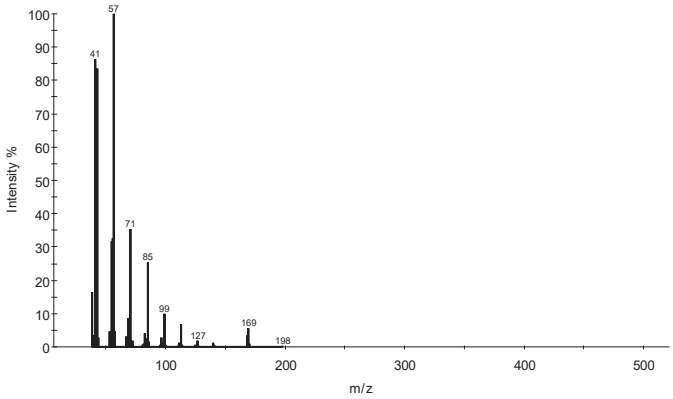


Hit	SI	RSI	Prob	Name	Library
1	711	822	12.63	Tridecane, 3-methyl-	replib
2	700	756	8.66	Tetradecane, 1-iodo-	replib
3	695	794	6.98	Tetradecane	replib2
4	695	794	6.98	Tetradecane	replib
5	693	773	6.44	Dodecane, 2,6,10-trimethyl-	replib2
6	687	786	5.06	Dodecane	replib2
7	687	786	5.06	Dodecane	replib
8	683	793	4.27	Tridecane, 4-methyl-	replib
9	683	793	4.27	Tridecane, 4-methyl-	replib2
10	682	733	4.11	Dodecane, 1-iodo-	replib

Tridecane, 3-methyl-, CAS# 6418-41-3



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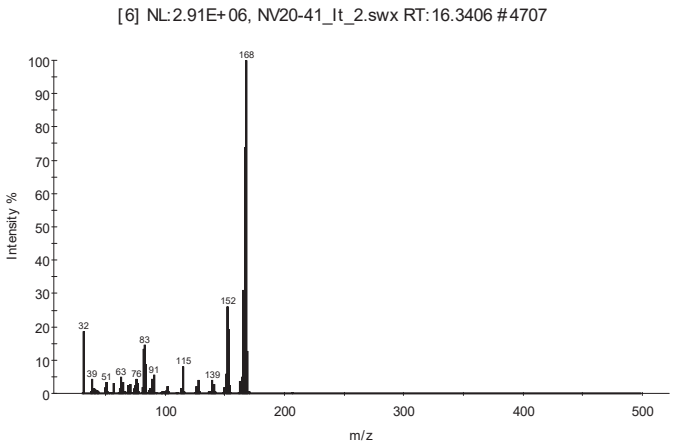
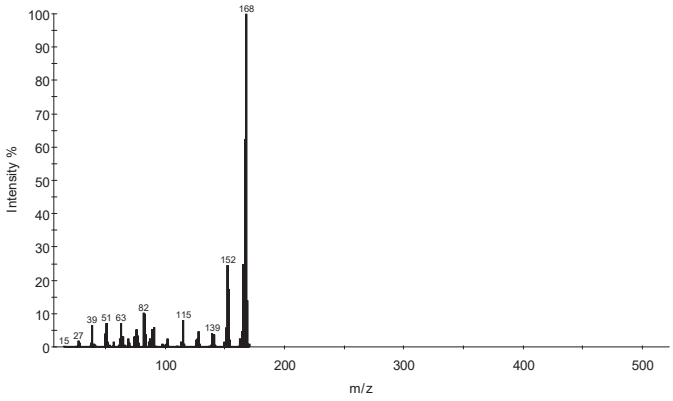


Hit	SI	RSI	Prob	Name	Library
1	930	939	33.84	1,1'-Biphenyl, 3-methyl-	replib
2	930	939	33.84	1,1'-Biphenyl, 3-methyl-	replib2
3	925	931	27.27	1,1'-Biphenyl, 4-methyl-	replib
4	925	931	27.27	1,1'-Biphenyl, 4-methyl-	replib2
5	915	920	27.27	1,1'-Biphenyl, 4-methyl-	replib
6	915	920	27.27	1,1'-Biphenyl, 4-methyl-	replib2
7	913	918	33.84	1,1'-Biphenyl, 3-methyl-	replib
8	913	918	33.84	1,1'-Biphenyl, 3-methyl-	replib2
9	909	917	15.70	1,1'-Biphenyl, 2-methyl-	replib
10	909	917	15.70	1,1'-Biphenyl, 2-methyl-	replib2

1,1'-Biphenyl, 3-methyl-, CAS# 643-93-6



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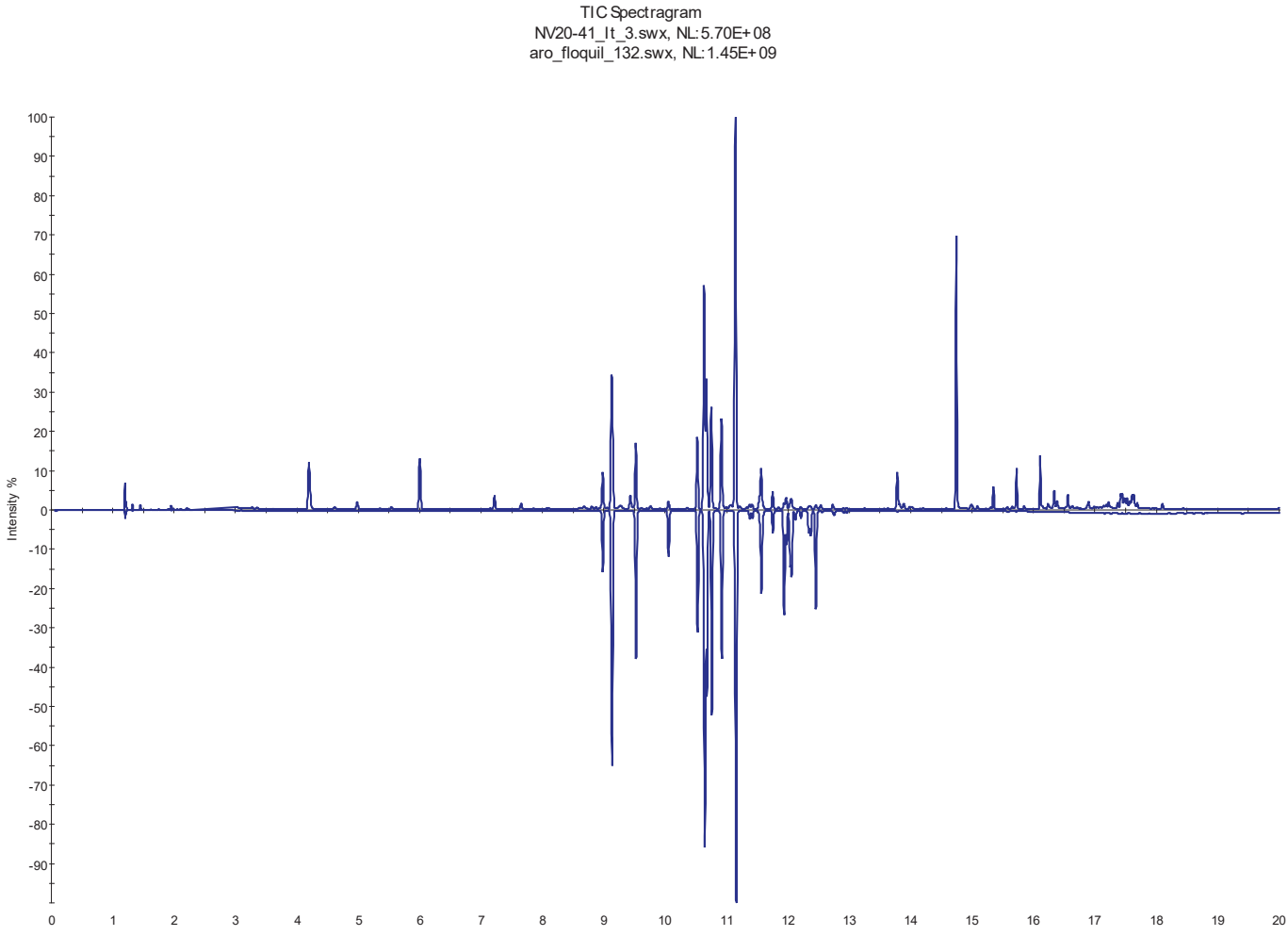

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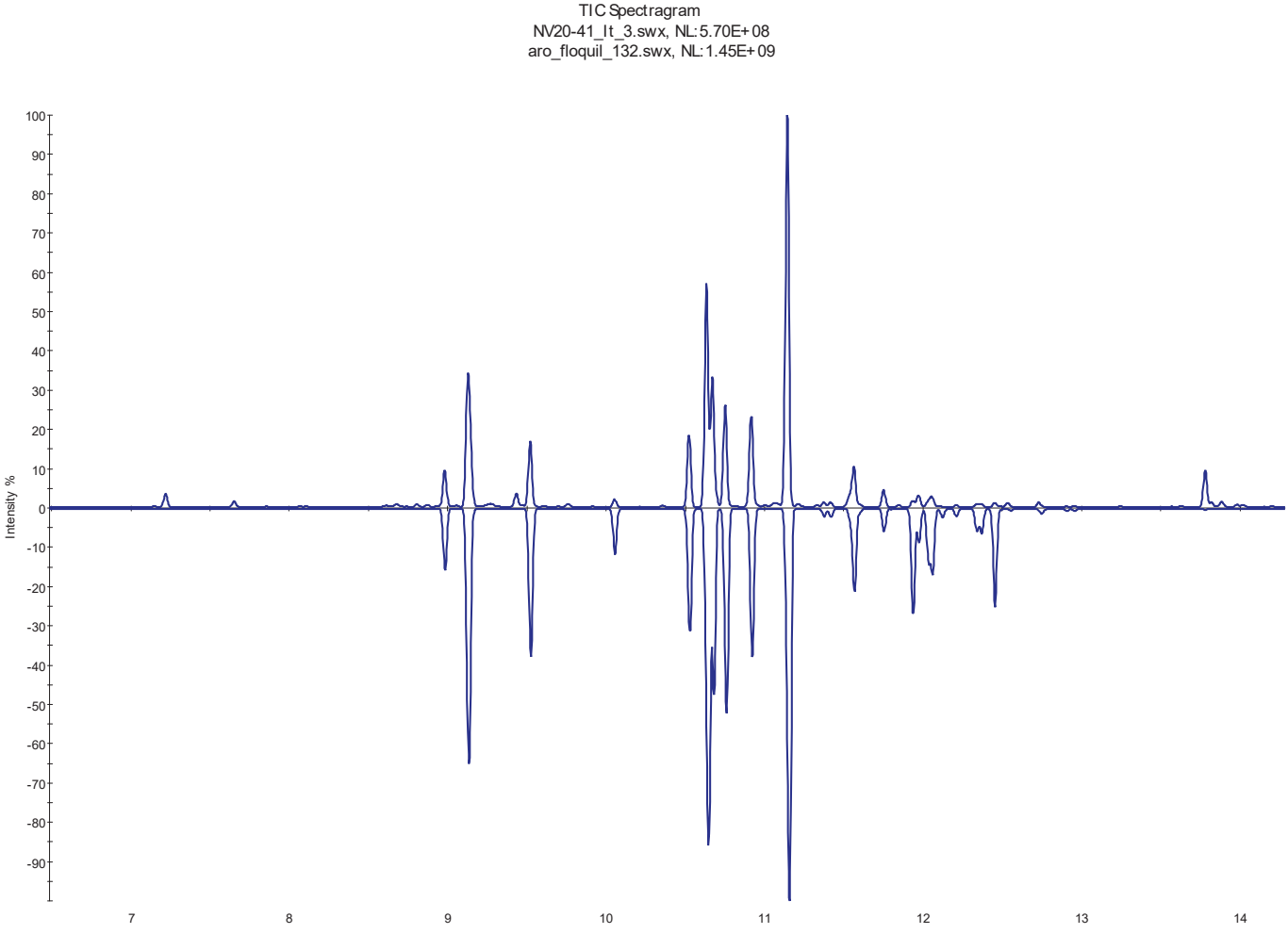

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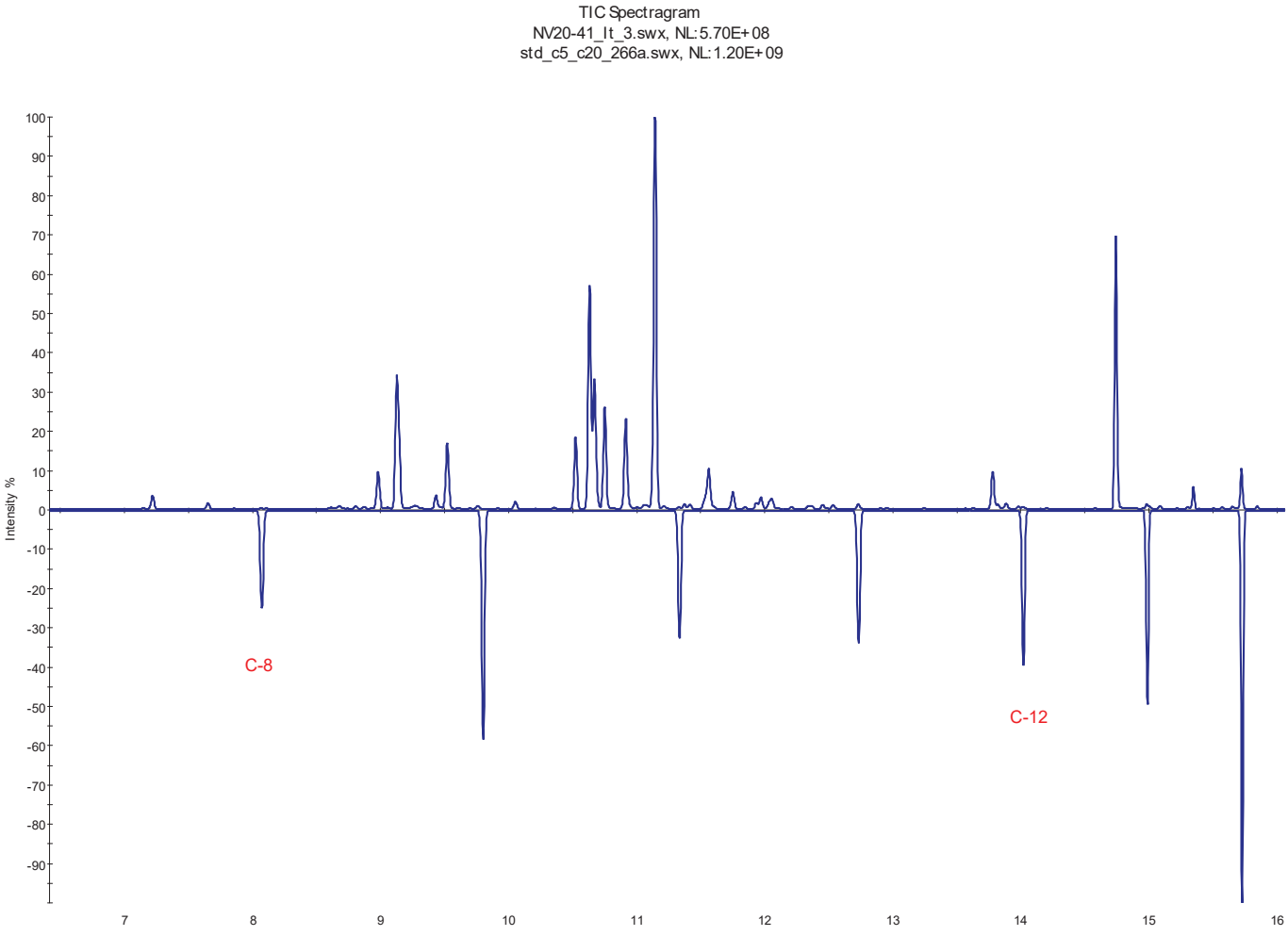

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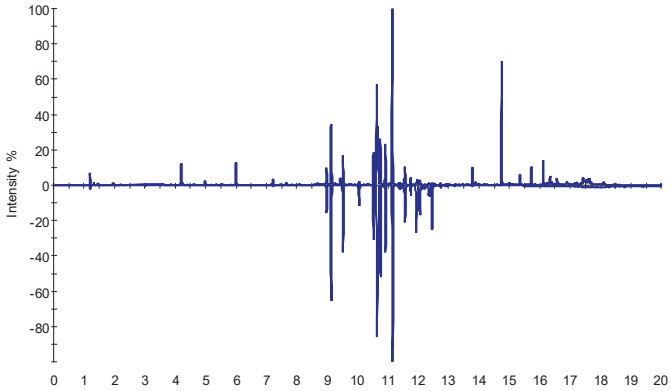
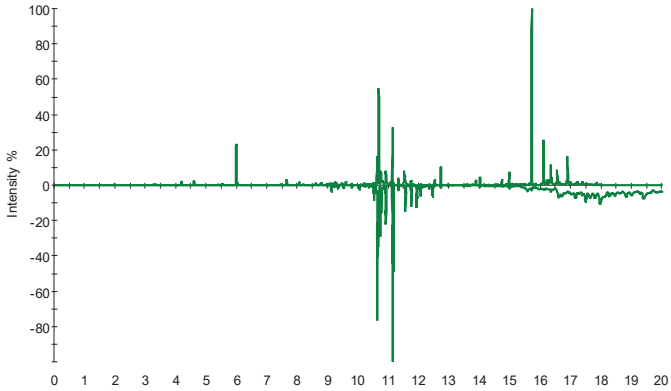
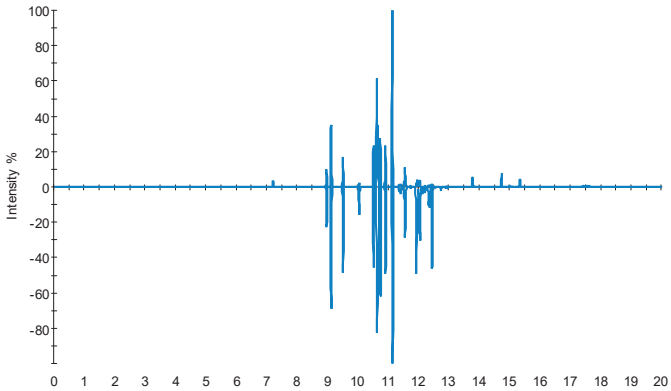
TIC Spectragram
NV20-41_It_3.swx, NL: 5.70E+08
aro_floquil_132.swx, NL: 1.45E+09



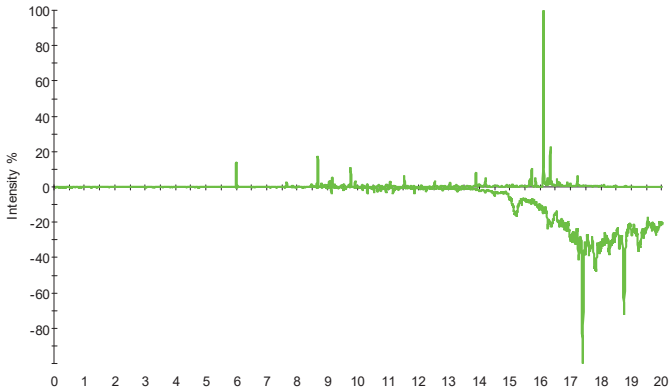
Alkanes [57,71,85,99] Spectragram
NV20-41_It_3.swx, NL: 2.60E+07
aro_floquil_132.swx, NL: 2.49E+07



Aromatics [91,105,119,134] Spectragram
NV20-41_It_3.swx, NL: 2.44E+08
aro_floquil_132.swx, NL: 4.71E+08



Cyclic alkanes [82,83] Spectragram
NV20-41_It_3.swx, NL: 7.46E+06
aro_floquil_132.swx, NL: 1.49E+06



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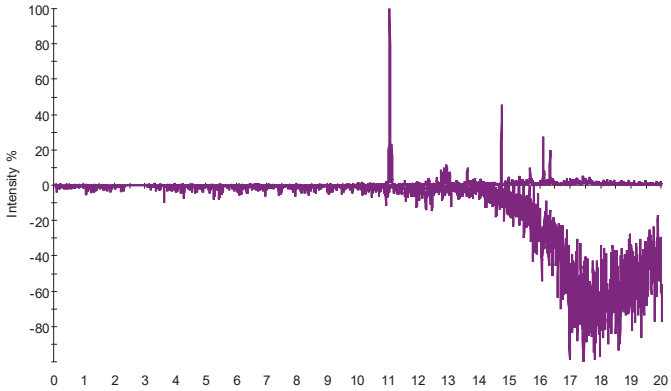
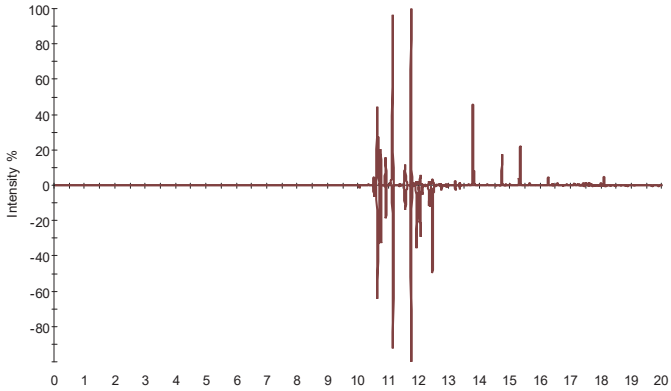
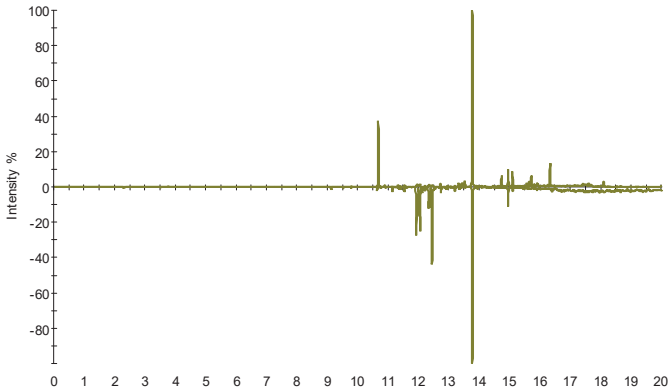
Decahydronaphthalene [138] Spectragram
NV20-41_It_3.swx, NL: 1.29E+05
aro_floquil_132.swx, NL: 4.72E+04



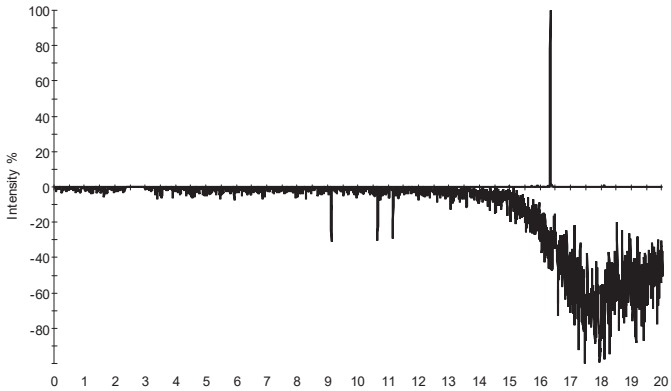
Indanes [117,131] Spectragram
NV20-41_It_3.swx, NL: 8.06E+06
aro_floquil_132.swx, NL: 2.80E+07



Naphthalene [128,142,156] Spectragram
NV20-41_It_3.swx, NL: 1.86E+06
aro_floquil_132.swx, NL: 2.08E+06



4-phenyltoluene [167,168] Spectragram
NV20-41_It_3.swx, NL: 9.58E+06
aro_floquil_132.swx, NL: 6.76E+04



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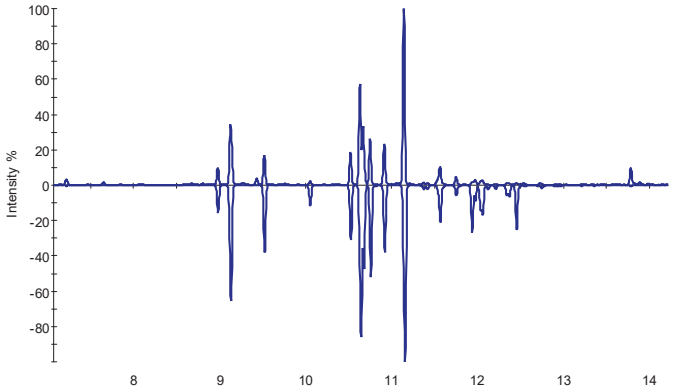
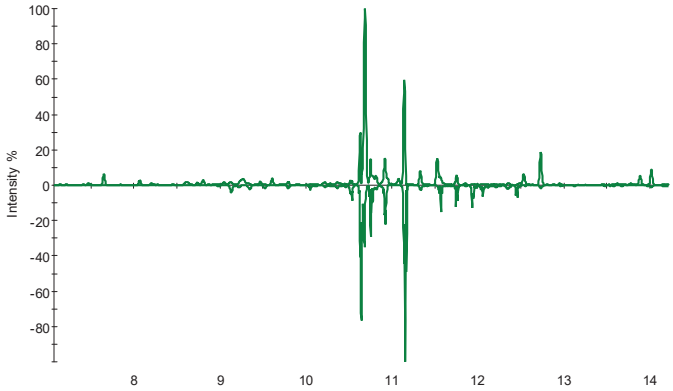
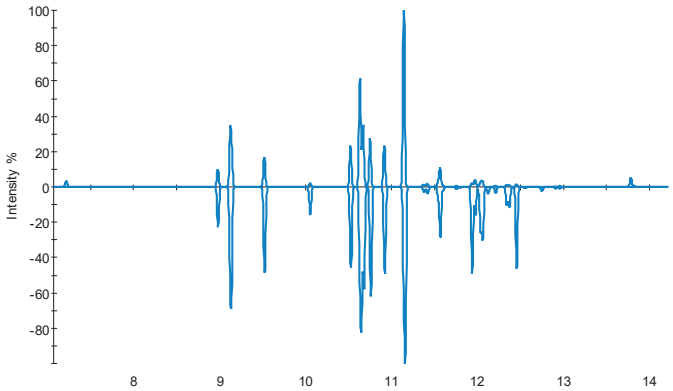
TIC Spectragram
NV20-41_It_3.swx, NL: 5.70E+08
aro_floquil_132.swx, NL: 1.45E+09



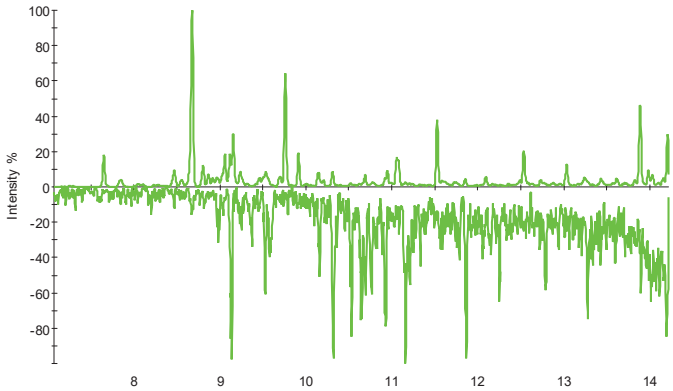
Alkanes [57,71,85,99] Spectragram
NV20-41_It_3.swx, NL: 1.42E+07
aro_floquil_132.swx, NL: 2.49E+07



Aromatics [91,105,119,134] Spectragram
NV20-41_It_3.swx, NL: 2.44E+08
aro_floquil_132.swx, NL: 4.71E+08



Cyclic alkanes [82,83] Spectragram
NV20-41_It_3.swx, NL: 1.32E+06
aro_floquil_132.swx, NL: 6.10E+04



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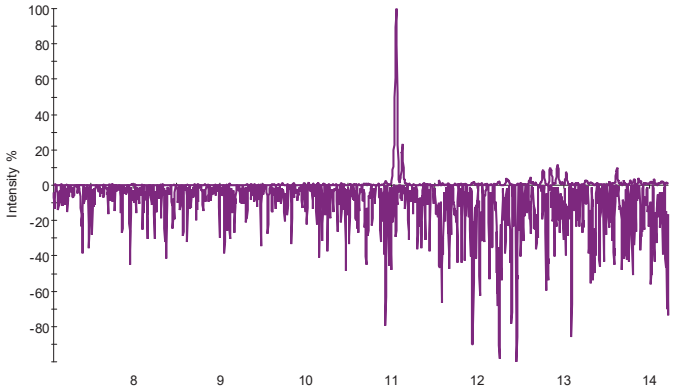
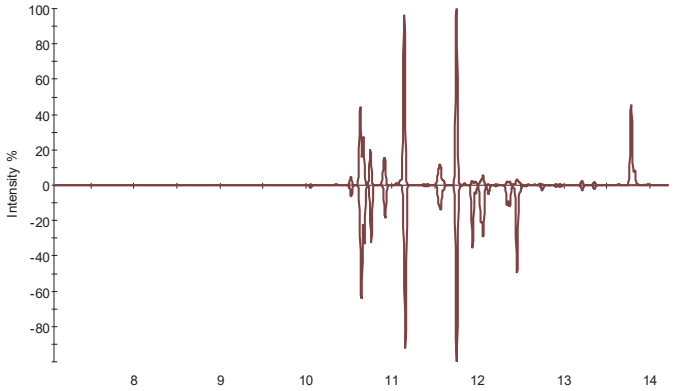
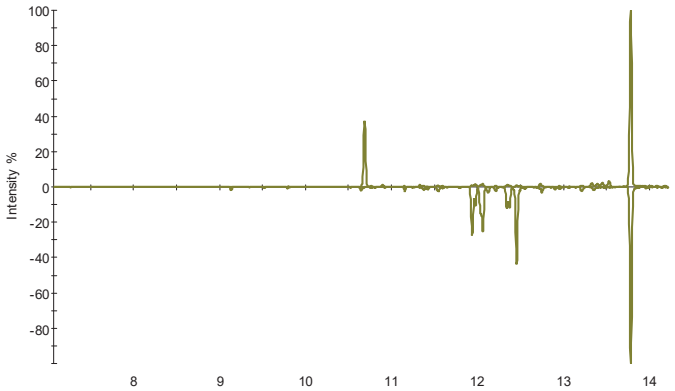
Decahydronaphthalene [138] Spectragram
NV20-41_It_3.swx, NL: 1.29E+05
aro_floquil_132.swx, NL: 6.82E+03



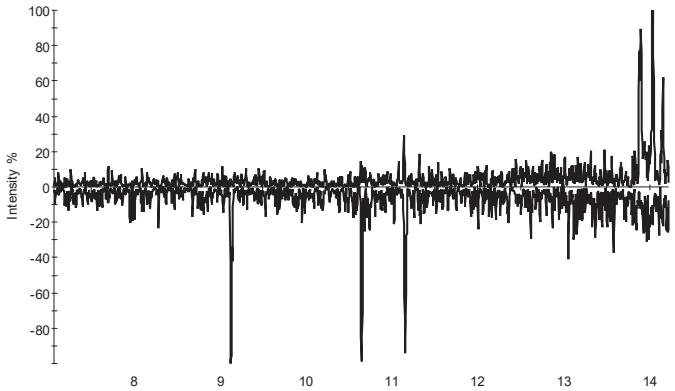
Indanes [117,131] Spectragram
NV20-41_It_3.swx, NL: 8.06E+06
aro_floquil_132.swx, NL: 2.80E+07



Naphthalene [128,142,156] Spectragram
NV20-41_It_3.swx, NL: 1.86E+06
aro_floquil_132.swx, NL: 2.08E+06



4-phenyltoluene [167,168] Spectragram
NV20-41_It_3.swx, NL: 1.44E+04
aro_floquil_132.swx, NL: 2.09E+04



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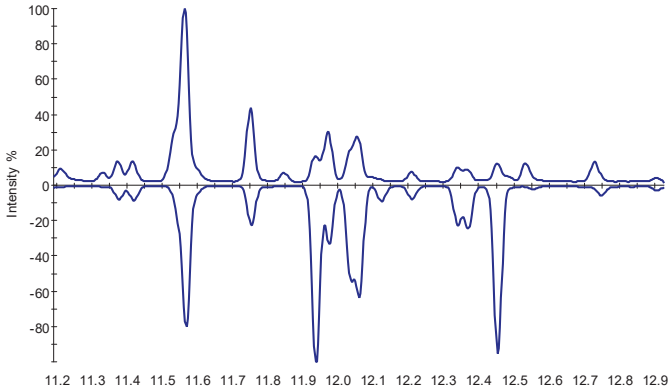
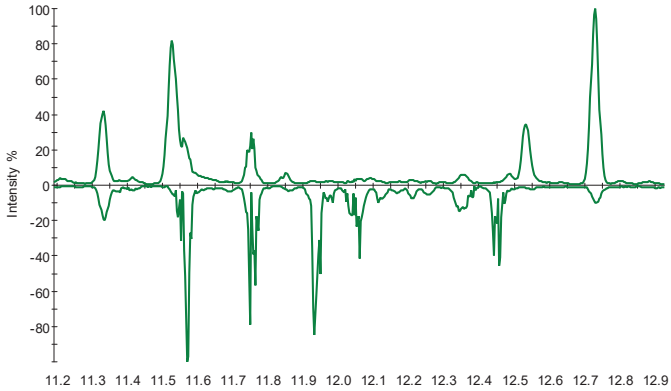
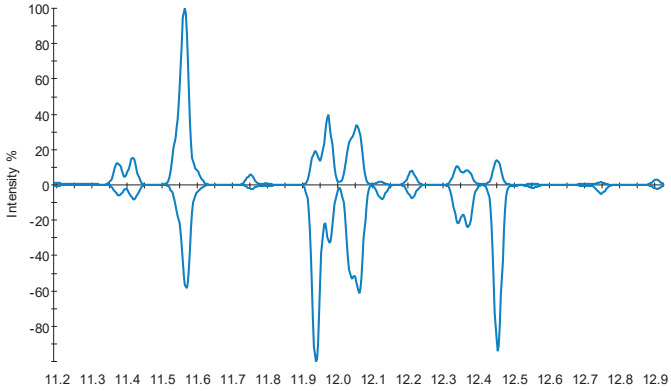
TIC Spectragram
NV20-41_It_3.swx, NL:6.13E+07
aro_floquil_132.swx, NL:3.86E+08



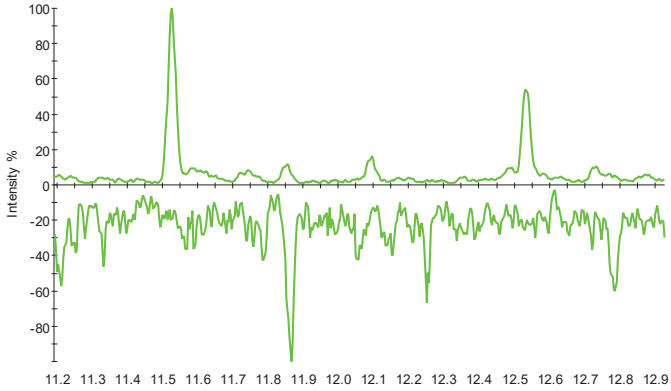
Alkanes [57,71,85,99] Spectragram
NV20-41_It_3.swx, NL:2.68E+06
aro_floquil_132.swx, NL:3.80E+06



Aromatics [91,105,119,134] Spectragram
NV20-41_It_3.swx, NL:2.64E+07
aro_floquil_132.swx, NL:2.32E+08



Cyclic alkanes [82,83] Spectragram
NV20-41_It_3.swx, NL:4.99E+05
aro_floquil_132.swx, NL:5.92E+04



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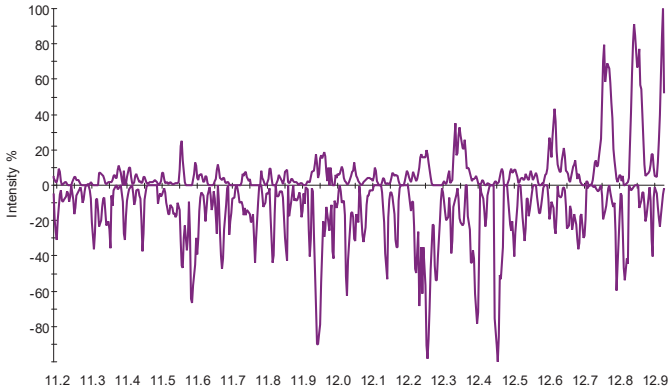
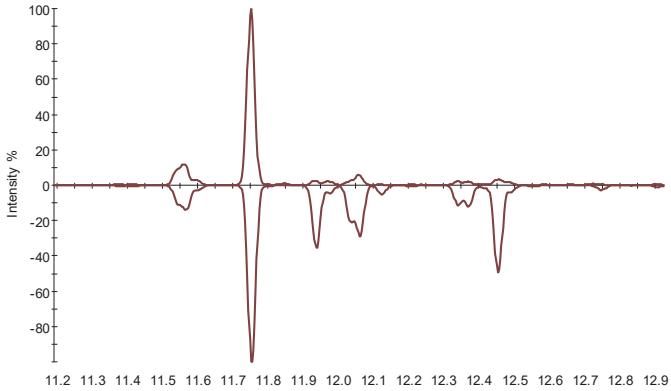
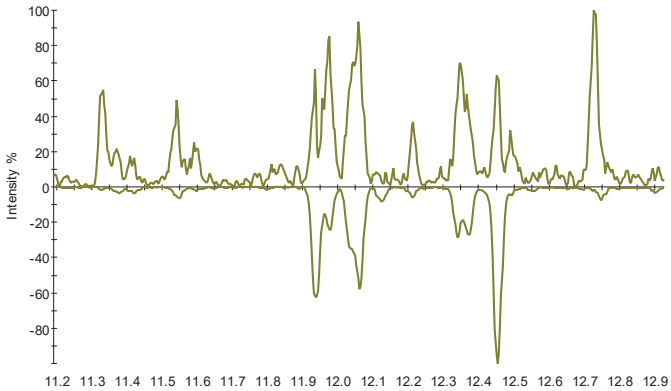
Decahydronaphthalene [138] Spectragram
NV20-41_It_3.swx, NL: 1.31E+04
aro_floquil_132.swx, NL: 6.82E+03



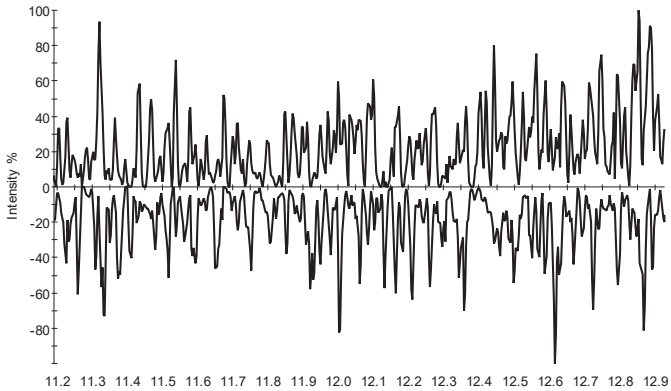
Indanes [117,131] Spectragram
NV20-41_It_3.swx, NL: 8.06E+06
aro_floquil_132.swx, NL: 2.80E+07



Naphthalene [128,142,156] Spectragram
NV20-41_It_3.swx, NL: 3.54E+04
aro_floquil_132.swx, NL: 9.10E+05



4-phenyltoluene [167,168] Spectragram
NV20-41_It_3.swx, NL: 2.86E+03
aro_floquil_132.swx, NL: 6.06E+03



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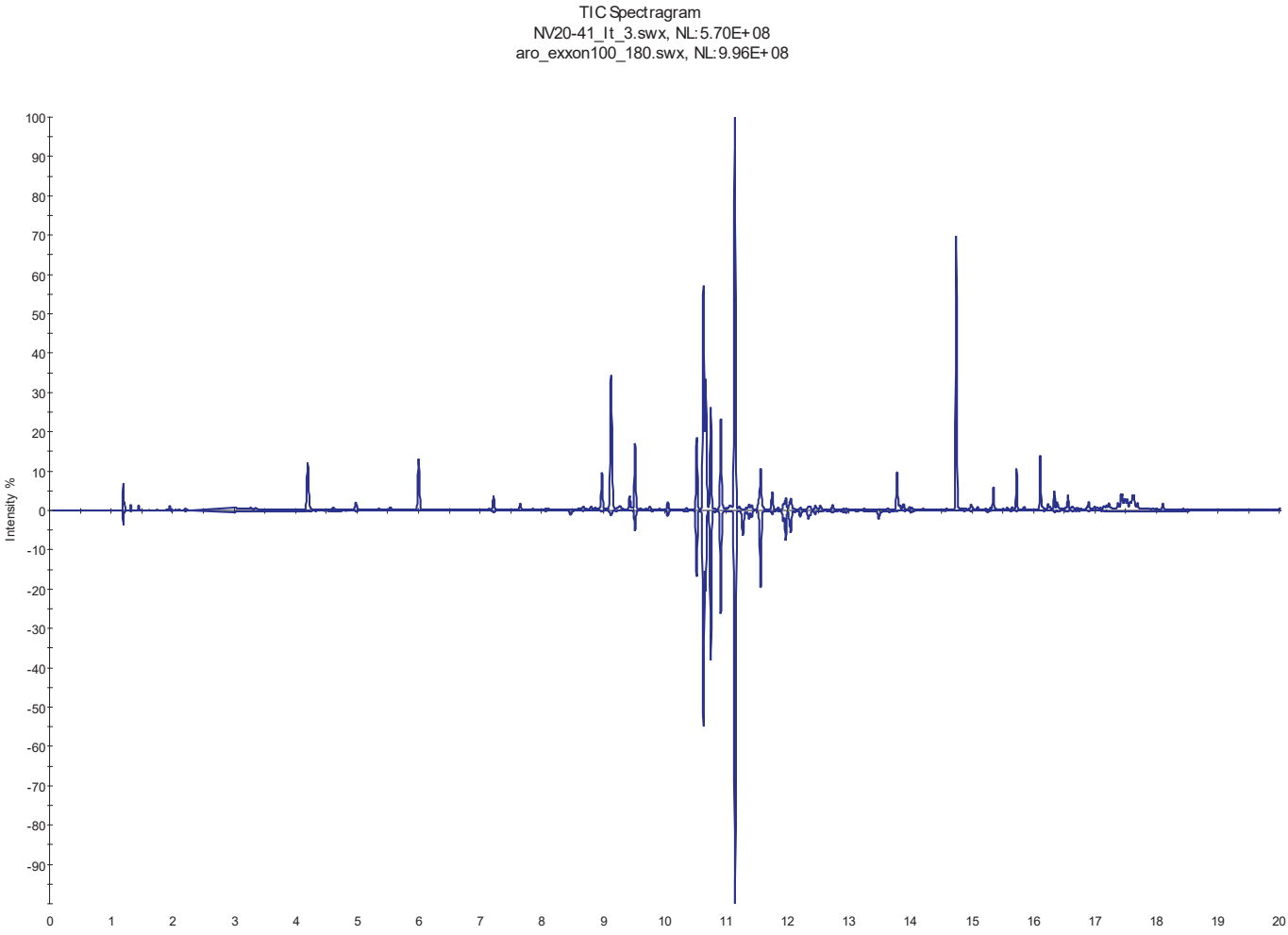

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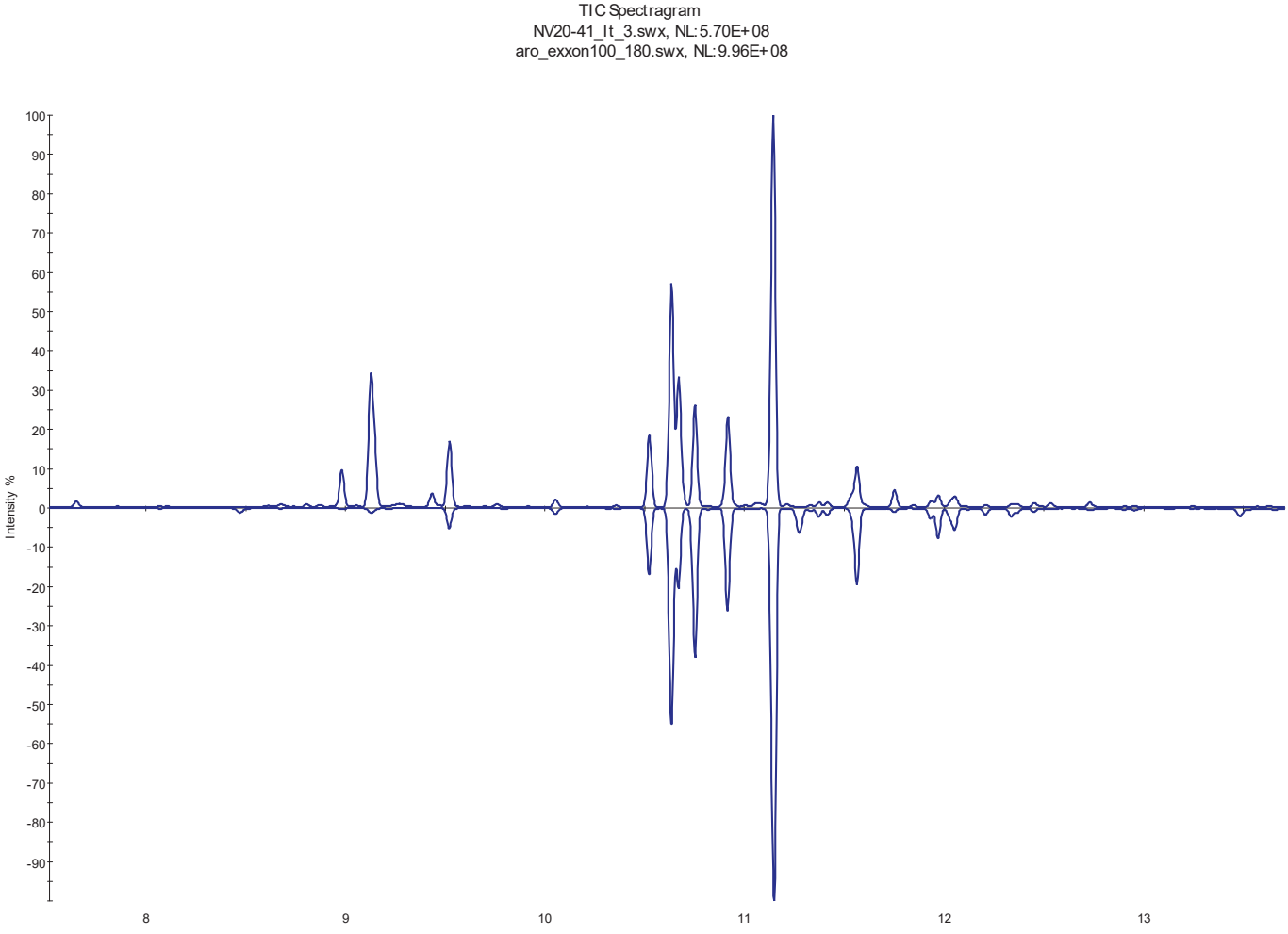

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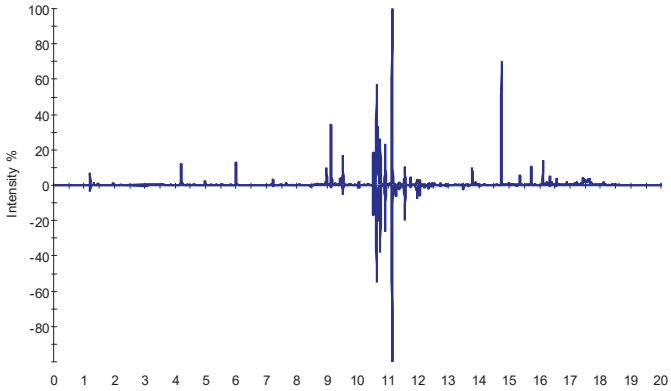
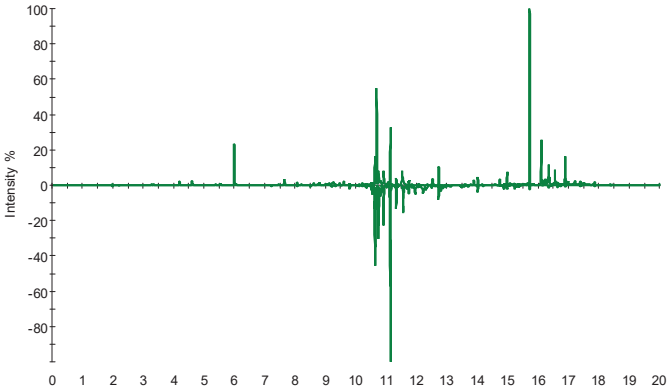
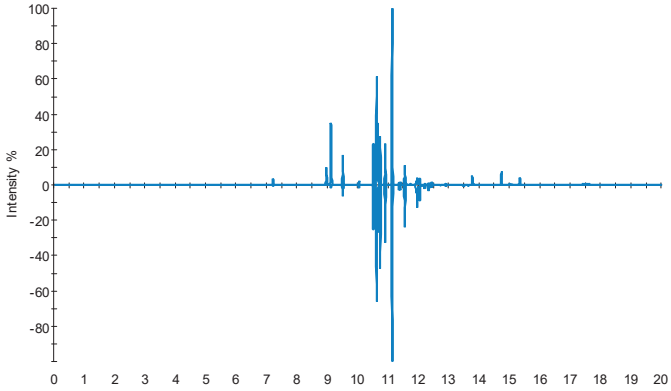
TIC Spectragram
NV20-41_It_3.swx, NL:5.70E+08
aro_exxon100_180.swx, NL:9.96E+08



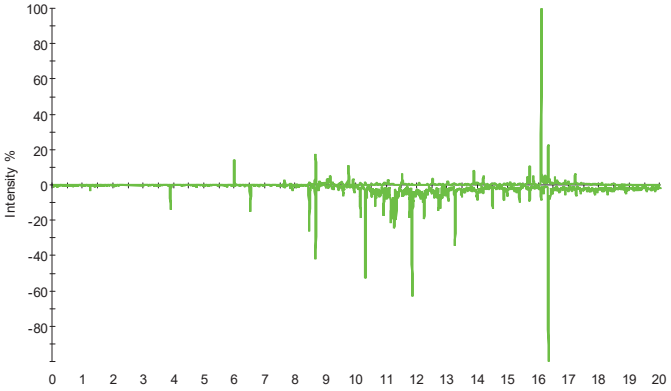
Alkanes [57,71,85,99] Spectragram
NV20-41_It_3.swx, NL:2.60E+07
aro_exxon100_180.swx, NL:1.70E+07



Aromatics [91,105,119,134] Spectragram
NV20-41_It_3.swx, NL:2.44E+08
aro_exxon100_180.swx, NL:3.58E+08



Cyclic alkanes [82,83] Spectragram
NV20-41_It_3.swx, NL:7.46E+06
aro_exxon100_180.swx, NL:2.44E+05



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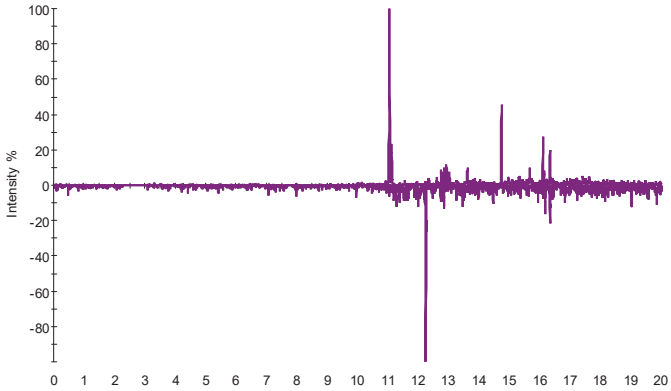
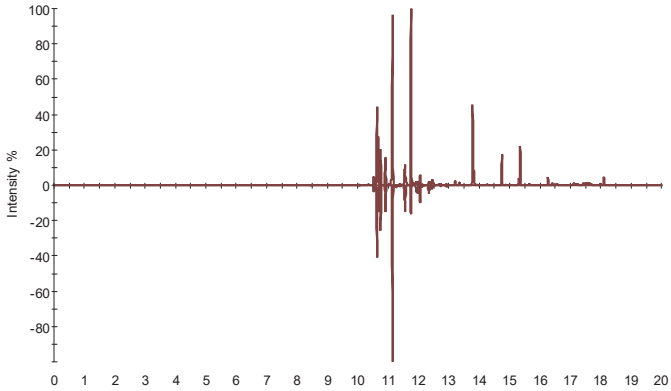
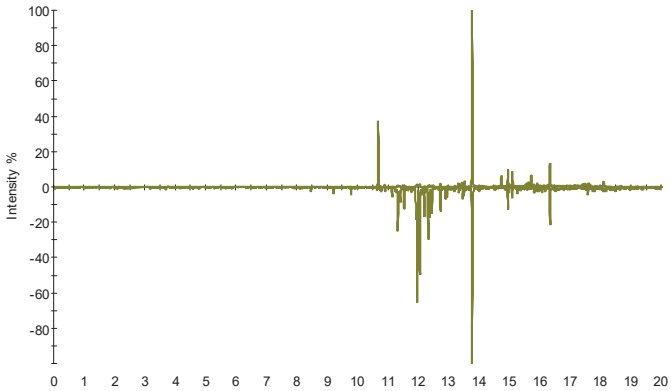
Decahydronaphthalene [138] Spectragram
NV20-41_It_3.swx, NL: 1.29E+05
aro_exxon100_180.swx, NL: 2.76E+04



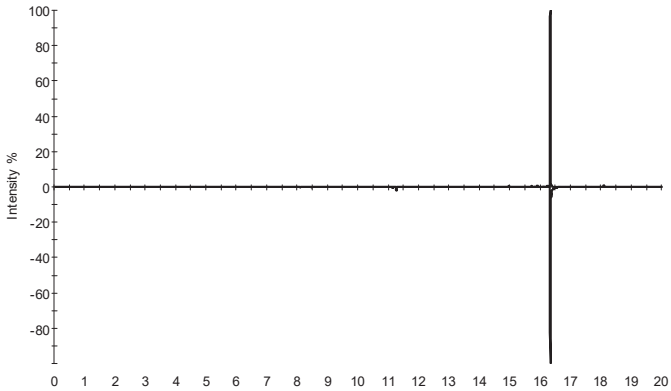
Indanes [117,131] Spectragram
NV20-41_It_3.swx, NL: 8.06E+06
aro_exxon100_180.swx, NL: 1.63E+07



Naphthalene [128,142,156] Spectragram
NV20-41_It_3.swx, NL: 1.86E+06
aro_exxon100_180.swx, NL: 1.87E+05



4-phenyltoluene [167,168] Spectragram
NV20-41_It_3.swx, NL: 9.58E+06
aro_exxon100_180.swx, NL: 1.43E+06



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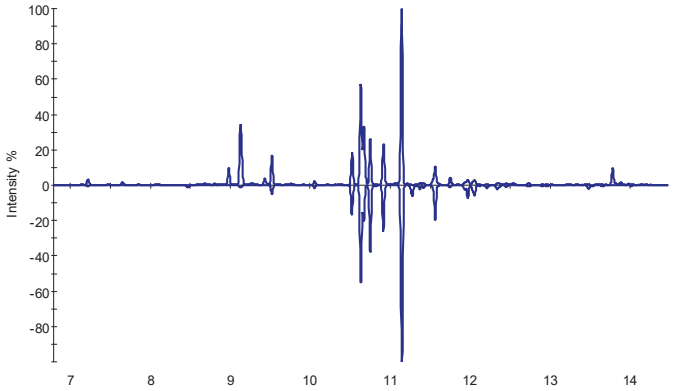
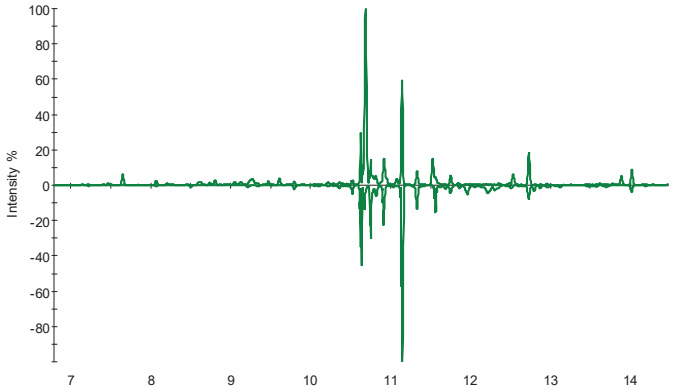
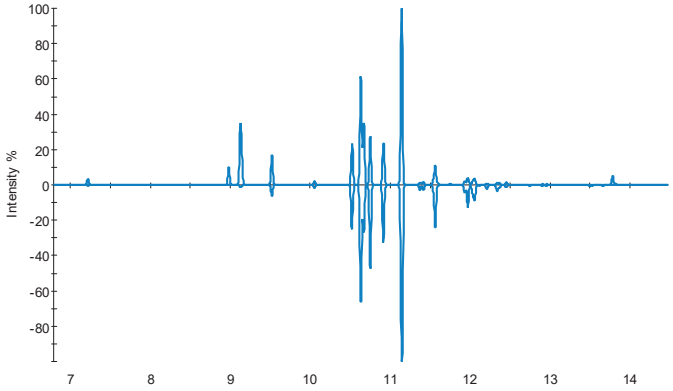
TIC Spectragram
NV20-41_It_3.swx, NL:5.70E+08
aro_exxon100_180.swx, NL:9.96E+08



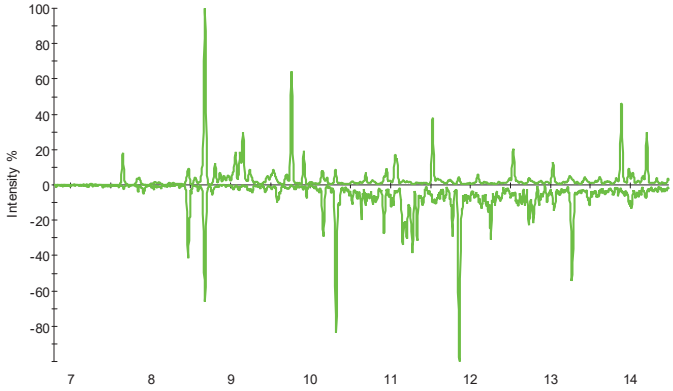
Alkanes [57,71,85,99] Spectragram
NV20-41_It_3.swx, NL:1.42E+07
aro_exxon100_180.swx, NL:1.70E+07



Aromatics [91,105,119,134] Spectragram
NV20-41_It_3.swx, NL:2.44E+08
aro_exxon100_180.swx, NL:3.58E+08



Cyclic alkanes [82,83] Spectragram
NV20-41_It_3.swx, NL:1.32E+06
aro_exxon100_180.swx, NL:1.55E+05



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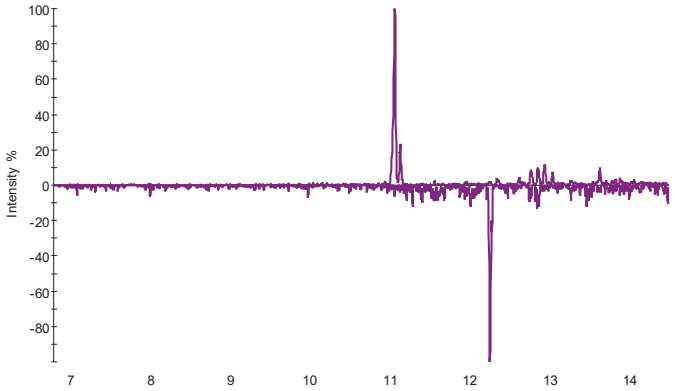
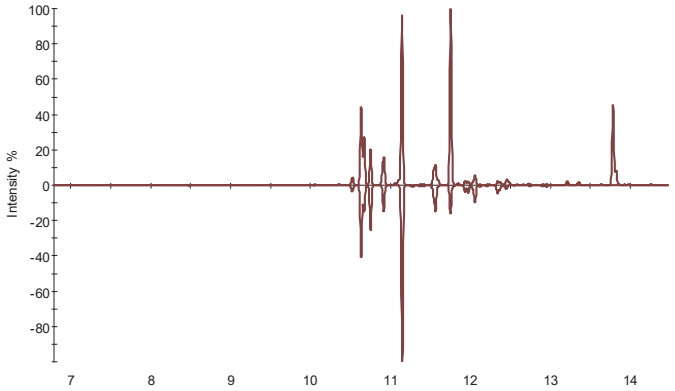
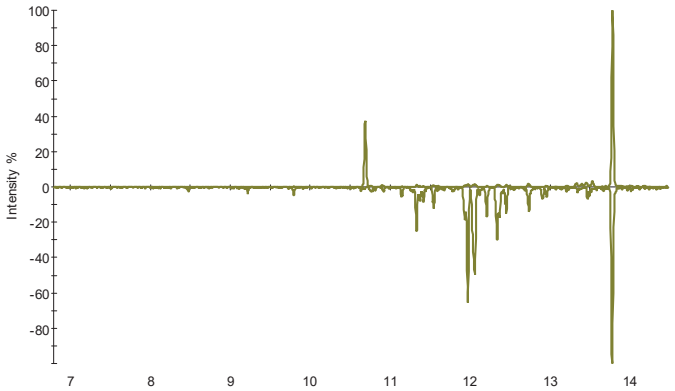
Decahydronaphthalene [138] Spectragram
NV20-41_It_3.swx, NL: 1.29E+05
aro_exxon100_180.swx, NL: 2.76E+04



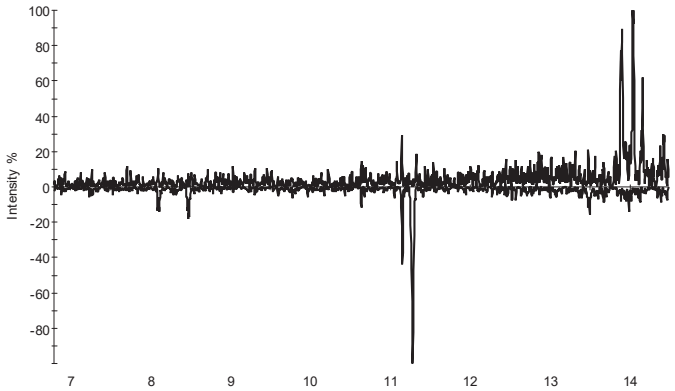
Indanes [117,131] Spectragram
NV20-41_It_3.swx, NL: 8.06E+06
aro_exxon100_180.swx, NL: 1.63E+07



Naphthalene [128,142,156] Spectragram
NV20-41_It_3.swx, NL: 1.86E+06
aro_exxon100_180.swx, NL: 1.87E+05



4-phenyltoluene [167,168] Spectragram
NV20-41_It_3.swx, NL: 1.44E+04
aro_exxon100_180.swx, NL: 3.18E+04



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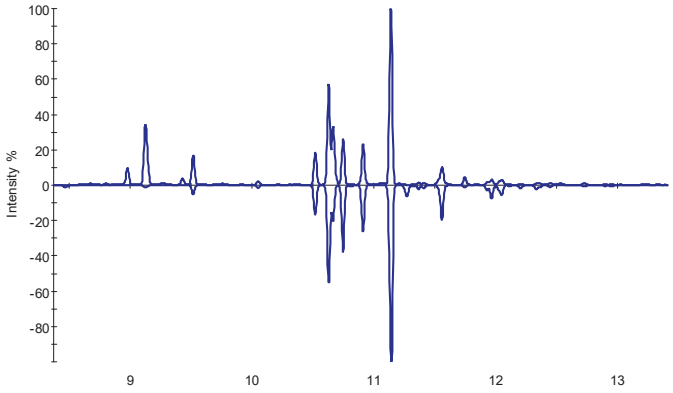
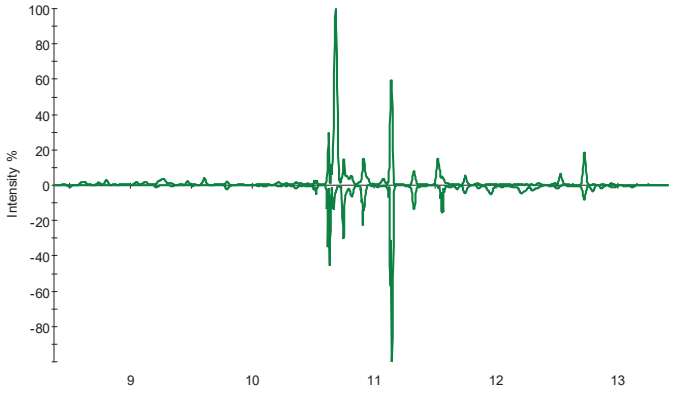
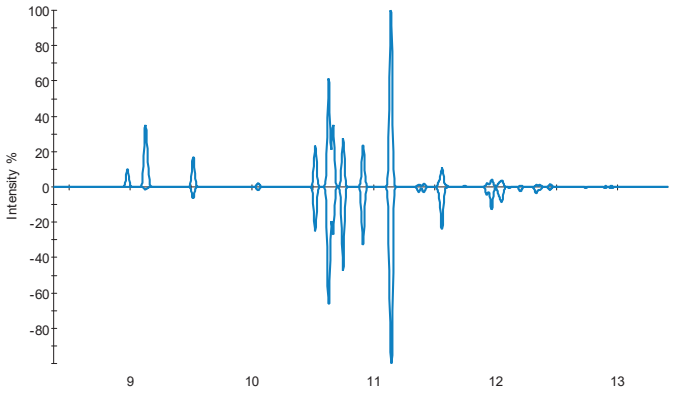
TIC Spectragram
NV20-41_It_3.swx, NL:5.70E+08
aro_exxon100_180.swx, NL:9.96E+08



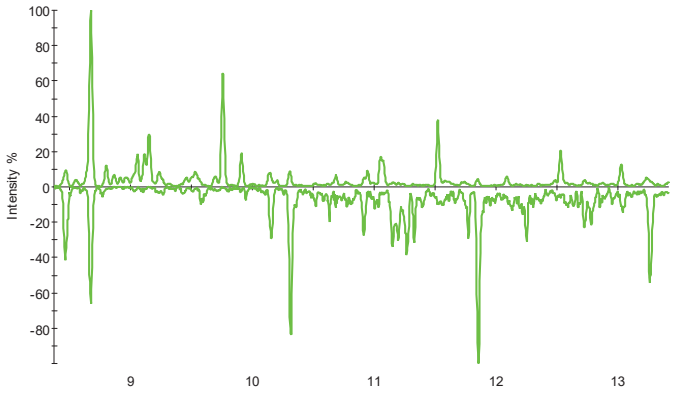
Alkanes [57,71,85,99] Spectragram
NV20-41_It_3.swx, NL:1.42E+07
aro_exxon100_180.swx, NL:1.70E+07



Aromatics [91,105,119,134] Spectragram
NV20-41_It_3.swx, NL:2.44E+08
aro_exxon100_180.swx, NL:3.58E+08



Cyclic alkanes [82,83] Spectragram
NV20-41_It_3.swx, NL:1.32E+06
aro_exxon100_180.swx, NL:1.55E+05



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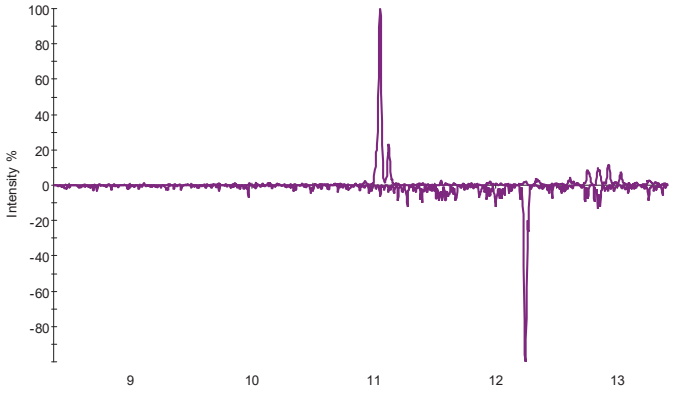
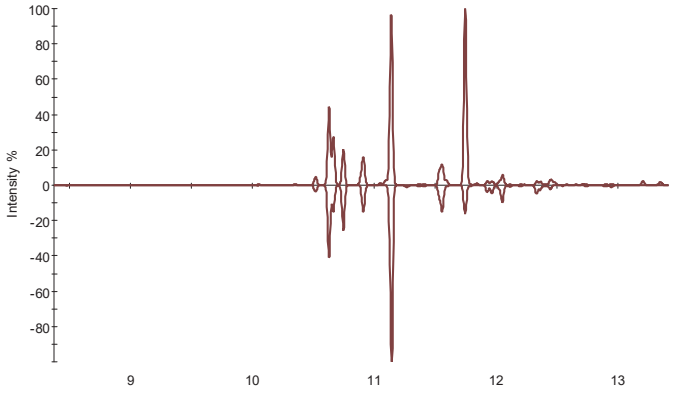
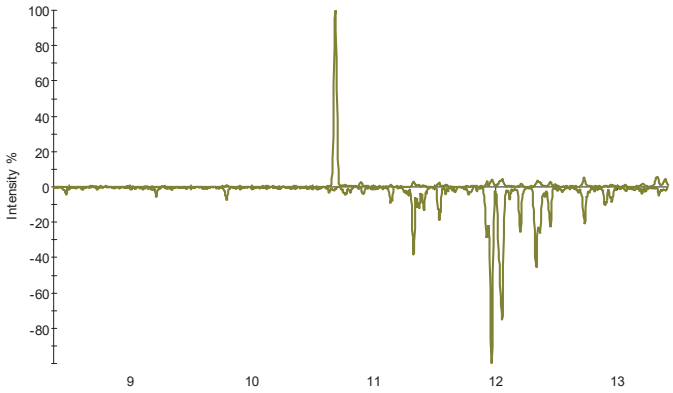
Decahydronaphthalene [138] Spectragram
NV20-41_It_3.swx, NL: 1.29E+05
aro_exxon100_180.swx, NL: 2.76E+04



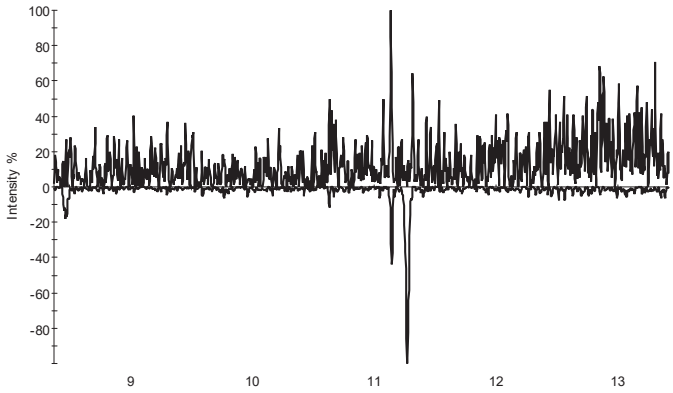
Indanes [117,131] Spectragram
NV20-41_It_3.swx, NL: 8.06E+06
aro_exxon100_180.swx, NL: 1.63E+07



Naphthalene [128,142,156] Spectragram
NV20-41_It_3.swx, NL: 6.96E+05
aro_exxon100_180.swx, NL: 1.23E+05



4-phenyltoluene [167,168] Spectragram
NV20-41_It_3.swx, NL: 4.18E+03
aro_exxon100_180.swx, NL: 3.18E+04



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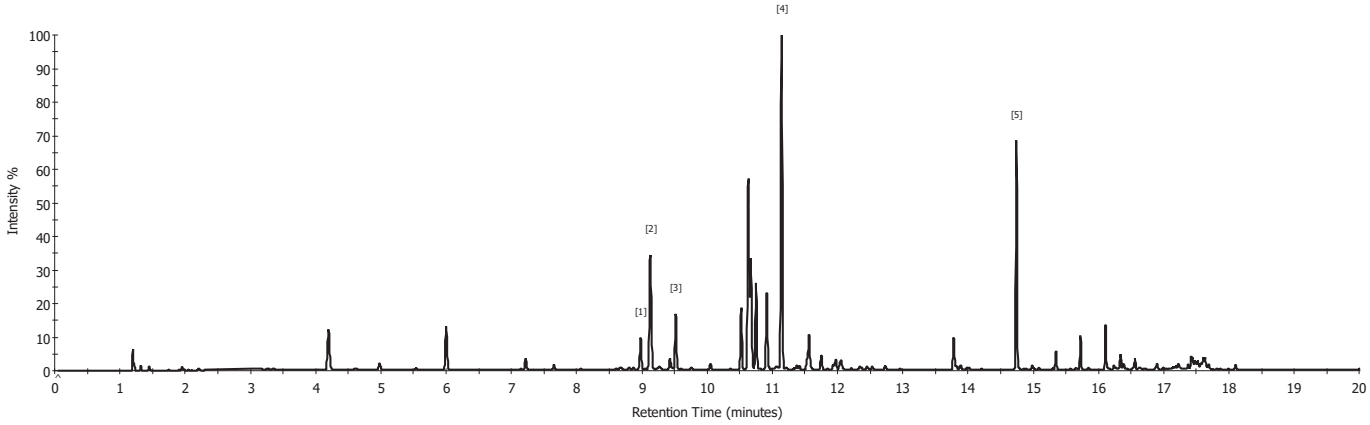
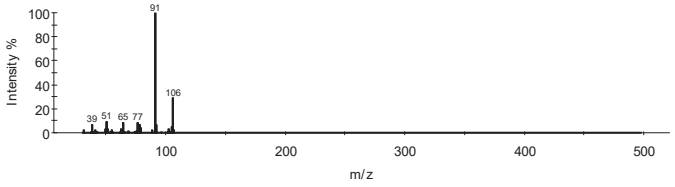
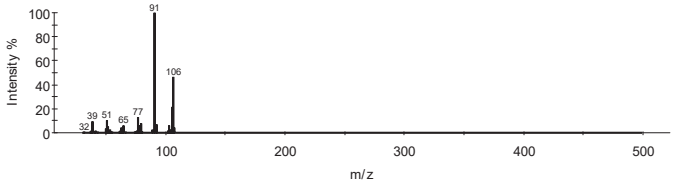
TIC NV20-41_It_3.swx



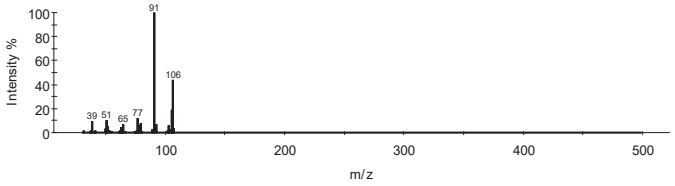
[1] NL: 2.35E+07, NV20-41_It_3.swx RT: 8.9820 # 2484



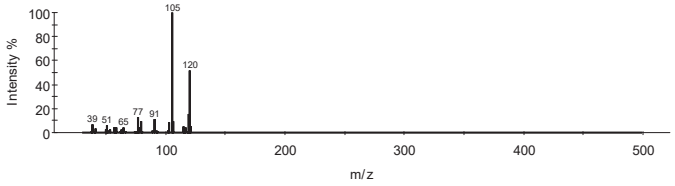
[2] NL: 6.99E+07, NV20-41_It_3.swx RT: 9.1273 # 2528



[3] NL: 3.50E+07, NV20-41_It_3.swx RT: 9.5211 # 2647



[4] NL: 1.92E+08, NV20-41_It_3.swx RT: 11.1425 # 3137



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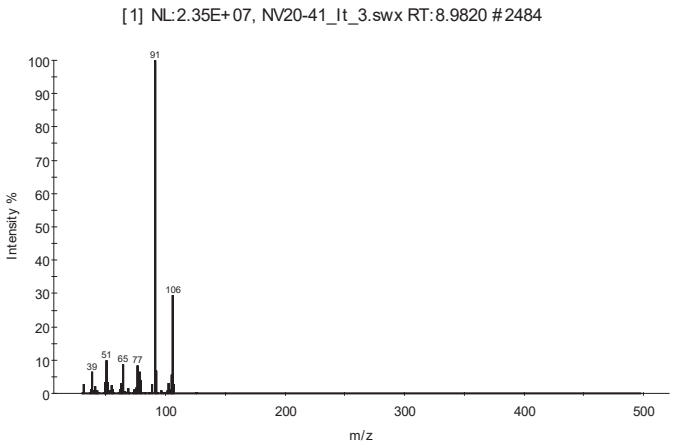
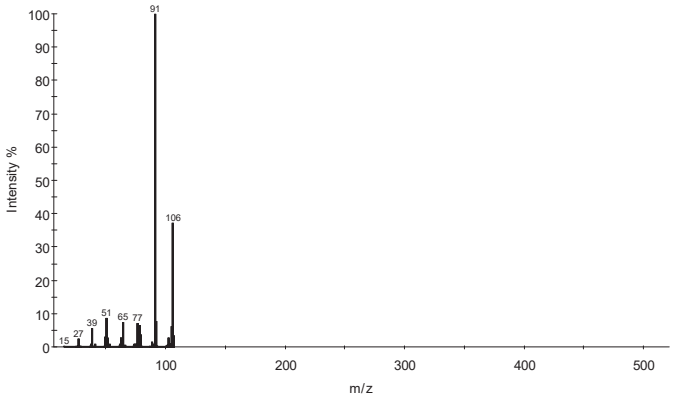
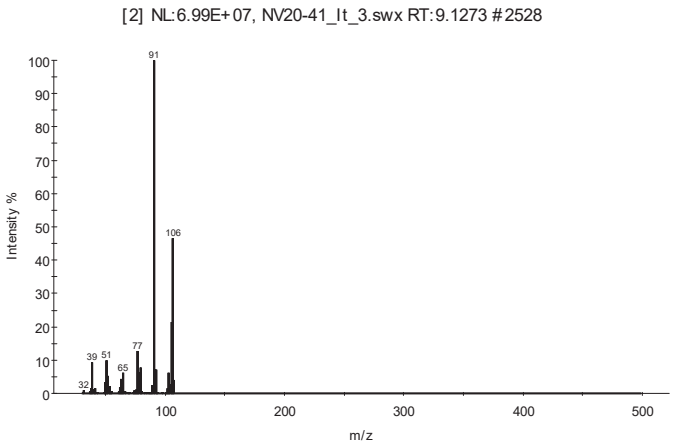


Hit	SI	RSI	Prob	Name	Library
1	937	954	62.06	Ethylbenzene	replib2
2	937	954	62.06	Ethylbenzene	replib
3	932	951	62.06	Ethylbenzene	MAINLIB
4	932	951	62.06	Ethylbenzene	NISTDEMO
5	930	947	62.06	Ethylbenzene	replib2
6	930	947	62.06	Ethylbenzene	replib
7	922	977	62.06	Ethylbenzene	replib
8	920	932	62.06	Ethylbenzene	replib2
9	920	932	62.06	Ethylbenzene	replib
10	890	903	12.98	o-Xylene	replib2

Ethylbenzene, CAS# 100-41-4

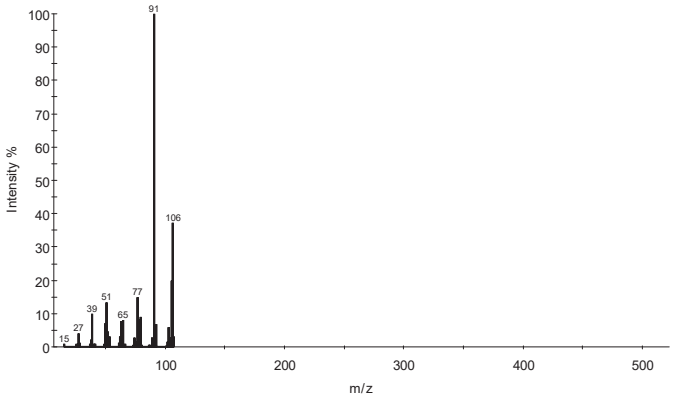


Report Printed 2/6/2020

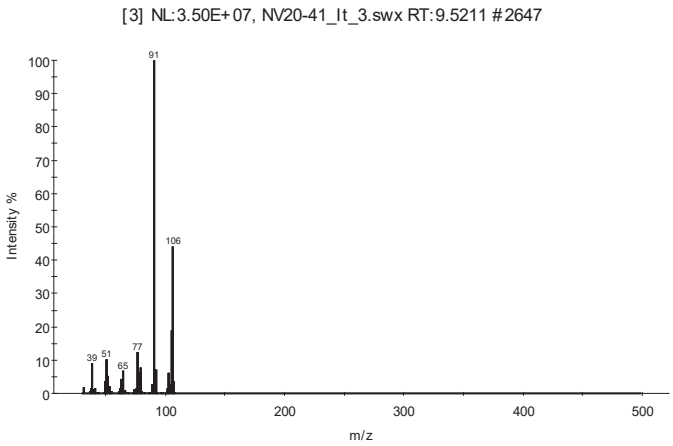


Hit	SI	RSI	Prob	Name	Library
1	956	960	46.85	p-Xylene	replib2
2	956	960	46.85	p-Xylene	replib
3	951	959	46.85	p-Xylene	replib
4	941	946	46.85	p-Xylene	replib
5	937	960	22.75	o-Xylene	replib
6	934	941	22.75	o-Xylene	replib
7	933	935	46.85	p-Xylene	replib2
8	933	935	46.85	p-Xylene	replib
9	933	935	19.22	Benzene, 1,3-dimethyl-	replib
10	928	929	19.22	Benzene, 1,3-dimethyl-	MAINLIB

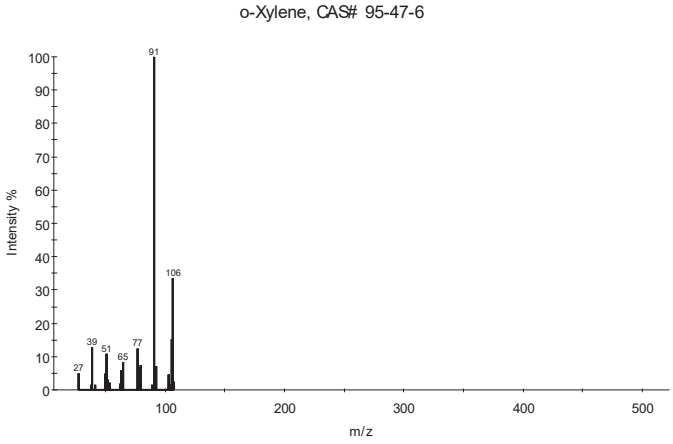
p-Xylene, CAS# 106-42-3



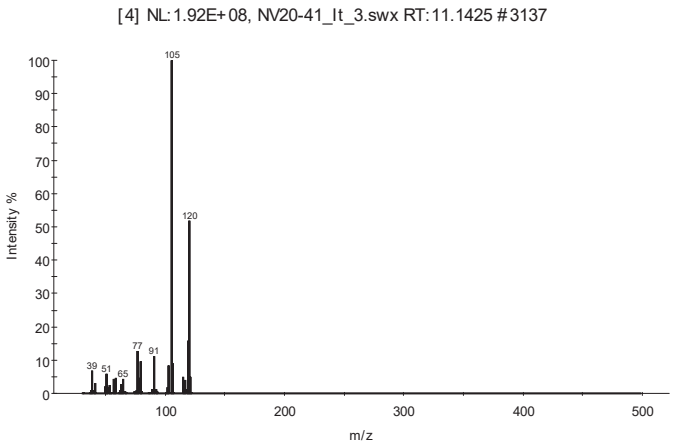
Report Printed 2/6/2020



Hit	SI	RSI	Prob	Name	Library
1	951	956	32.95	p-Xylene	replib2
2	951	956	32.95	p-Xylene	replib
3	949	952	30.40	Benzene, 1,3-dimethyl-	replib
4	948	952	32.95	p-Xylene	replib2
5	948	952	32.95	p-Xylene	replib
6	947	956	32.95	p-Xylene	replib
7	934	959	18.42	o-Xylene	replib
8	933	940	32.95	p-Xylene	replib
9	933	935	30.40	Benzene, 1,3-dimethyl-	MAINLIB
10	933	935	30.40	Benzene, 1,3-dimethyl-	replib

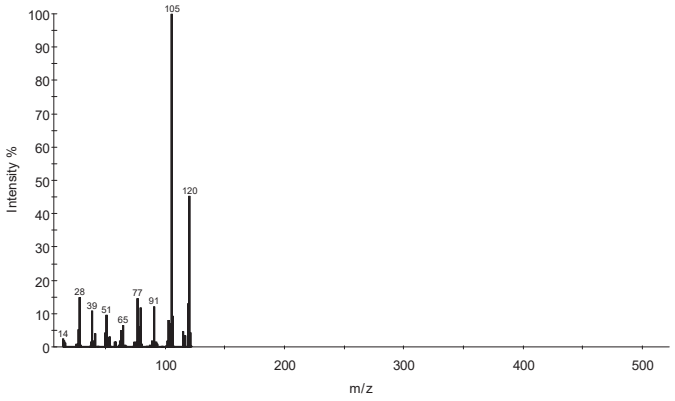


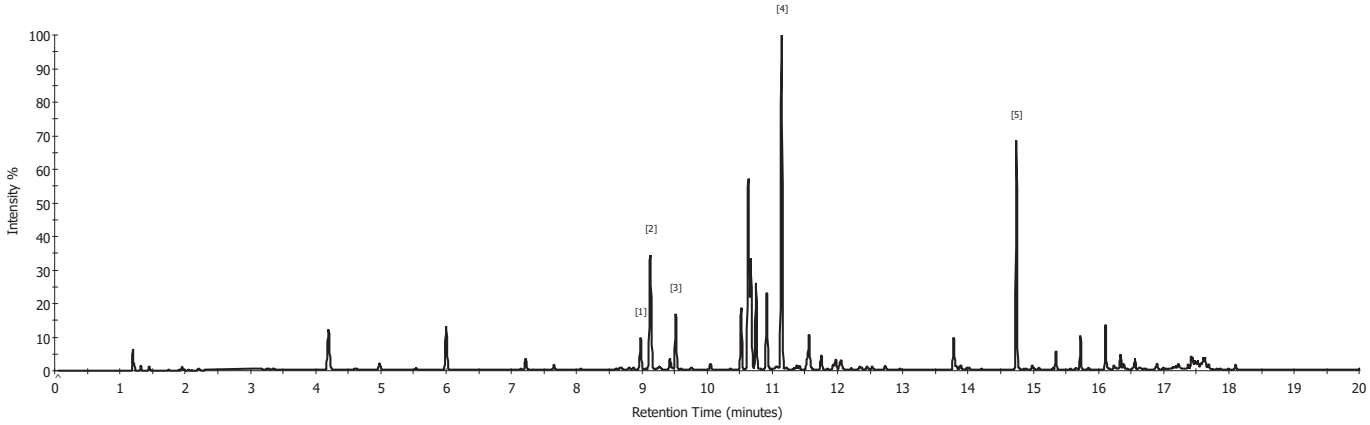
Report Printed 2/6/2020

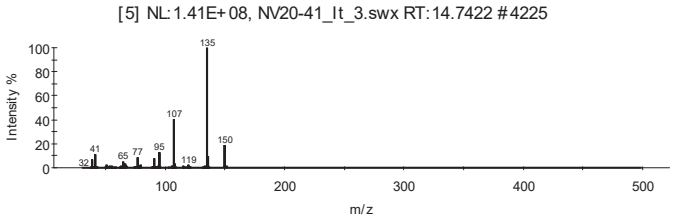


Hit	SI	RSI	Prob	Name	Library
1	934	941	30.42	Benzene, 1,2,3-trimethyl-	MAINLIB
2	934	941	30.42	Benzene, 1,2,3-trimethyl-	NISTDEMO
3	928	928	30.42	Benzene, 1,2,3-trimethyl-	replib
4	928	928	30.42	Benzene, 1,2,3-trimethyl-	replib2
5	926	934	22.70	Mesitylene	replib
6	923	930	20.05	Benzene, 1,2,4-trimethyl-	MAINLIB
7	923	930	20.05	Benzene, 1,2,4-trimethyl-	NISTDEMO
8	917	919	20.05	Benzene, 1,2,4-trimethyl-	replib
9	917	919	20.05	Benzene, 1,2,4-trimethyl-	replib2
10	914	920	20.05	Benzene, 1,2,4-trimethyl-	replib

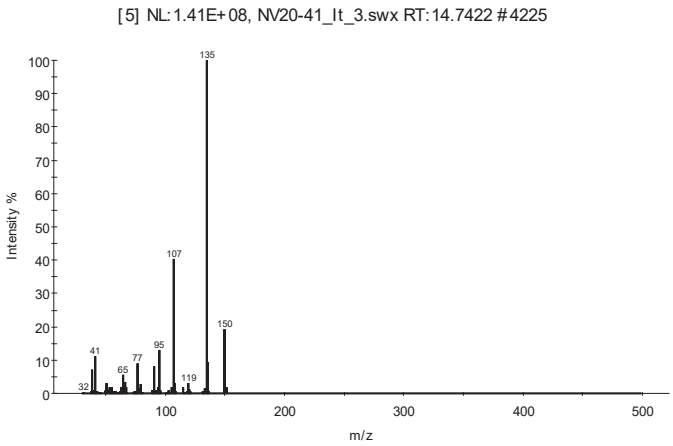
Benzene, 1,2,4-trimethyl-, CAS# 95-63-6





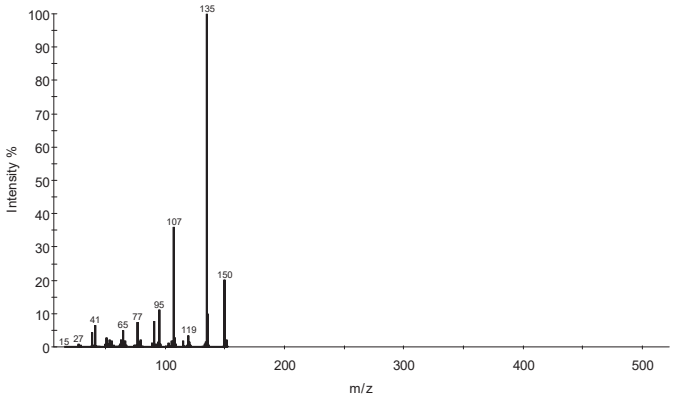


Report Printed 2/6/2020



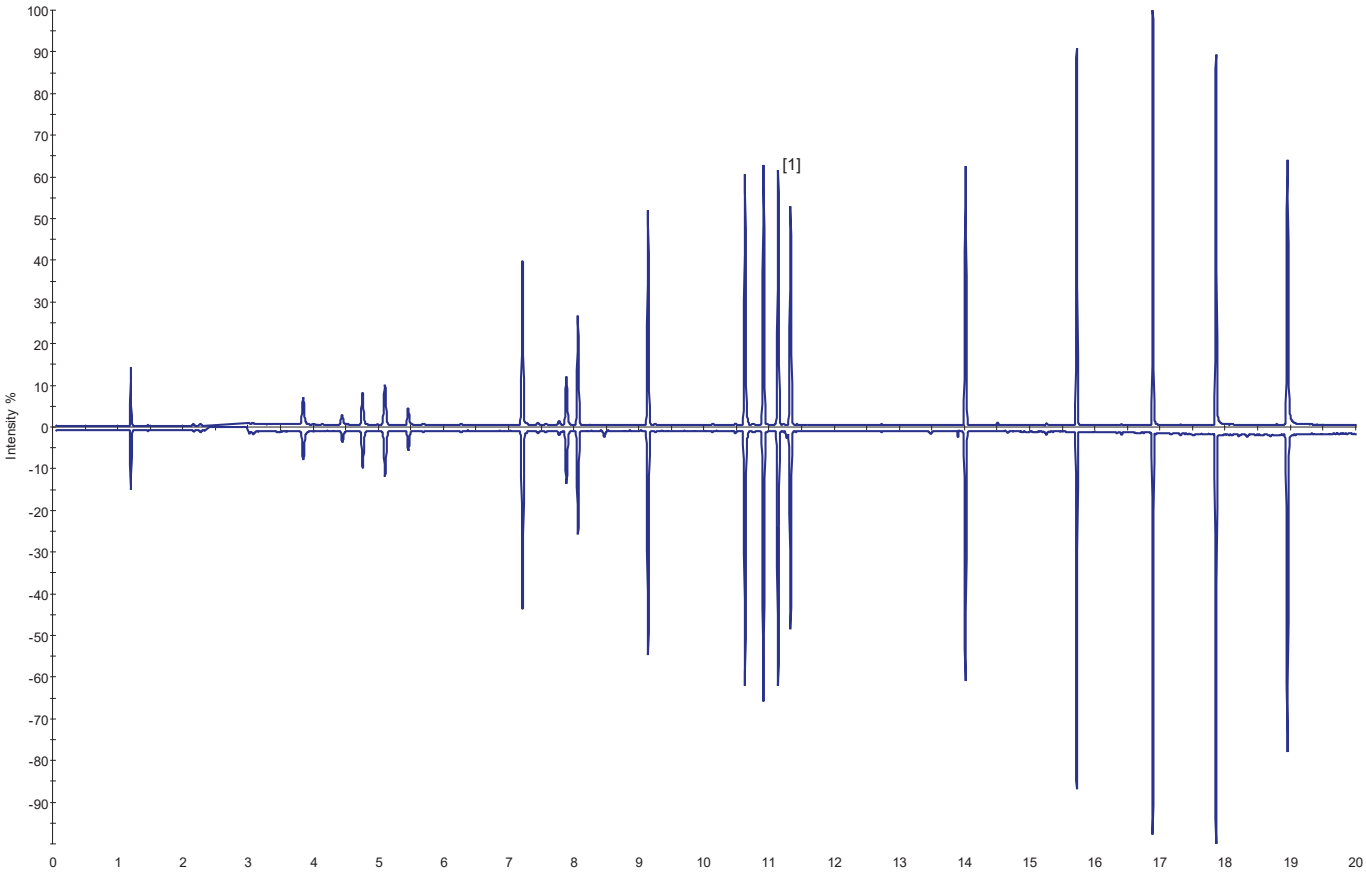
Hit	SI	RSI	Prob	Name	Library
1	946	946	51.95	Phenol, p-tert-butyl-	replib
2	937	937	51.95	Phenol, p-tert-butyl-	MAINLIB
3	937	937	51.95	Phenol, p-tert-butyl-	NISTDEMO
4	935	938	35.64	Phenol, m-tert-butyl-	replib2
5	930	933	35.64	Phenol, m-tert-butyl-	replib
6	928	929	35.64	Phenol, m-tert-butyl-	replib
7	928	928	35.64	Phenol, m-tert-butyl-	replib
8	928	928	35.64	Phenol, m-tert-butyl-	replib2
9	918	920	35.64	Phenol, m-tert-butyl-	replib
10	918	920	35.64	Phenol, m-tert-butyl-	replib2

Phenol, p-tert-butyl-, CAS# 98-54-4



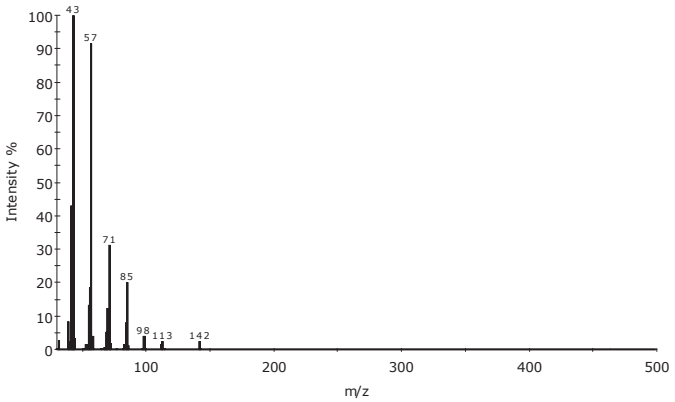
Report Printed 2/6/2020

TIC Spectragram
ASTM_sens_mix_200205084057.swx, NL: 1.89E+ 08
std_ASTM_sens_mix_266a.swx, NL: 1.97E+ 08

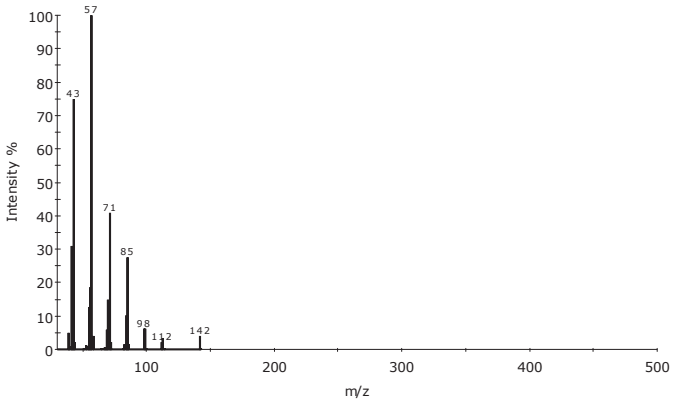


Report Printed 2/6/2020

Component 1, RT 11.3299 minutes

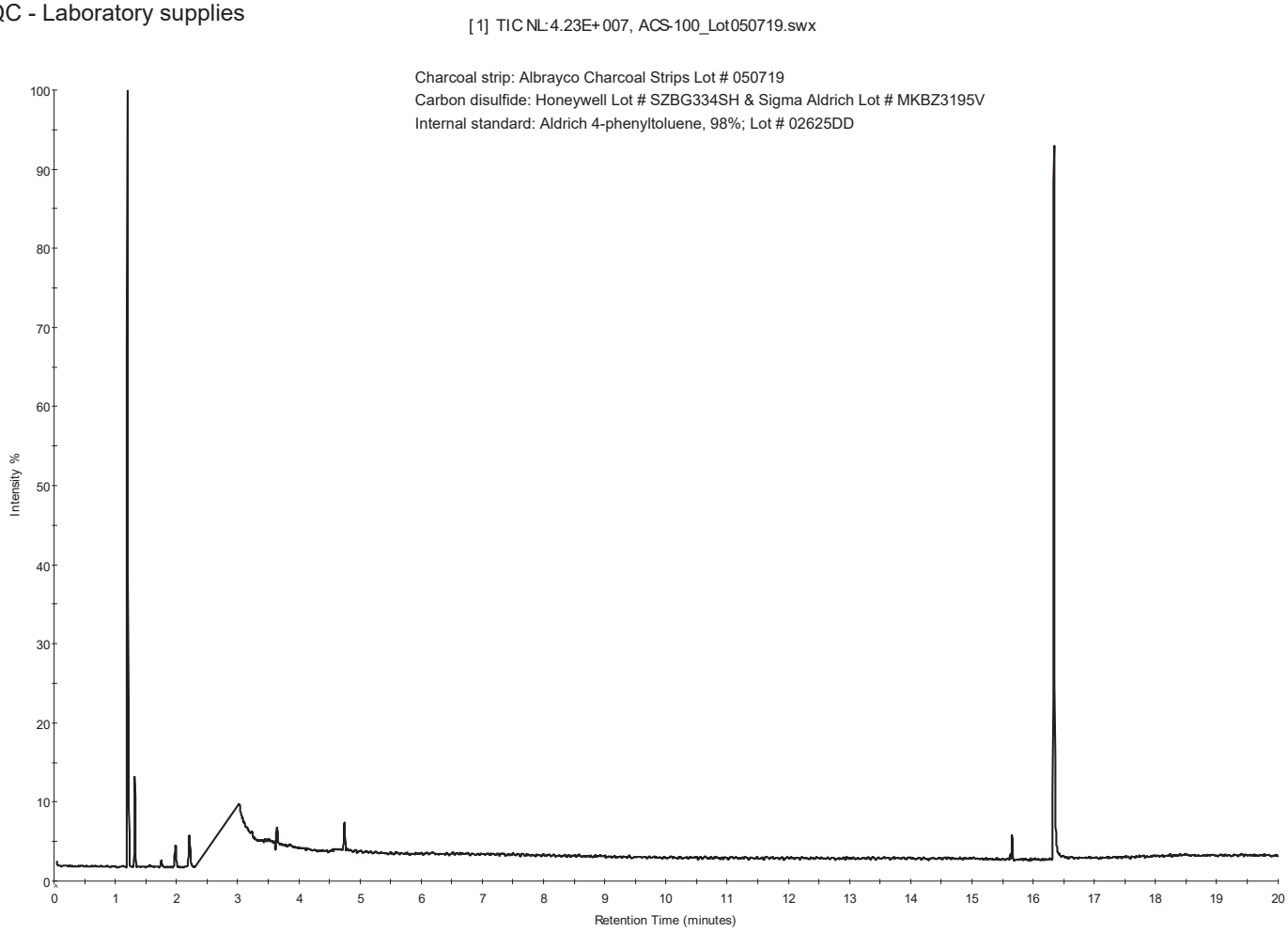


decane_astm_sens_mix_267c, CAS# n/a



Name	Library	Forward	Reverse	Probability	Confidence	MW	Formula	CAS#
decane_astm_sens_mix_267c	reference_spectra	954	956	41.97	95.46	142	C10H22	n/a
Decane	MAINLIB	947	947	32.15	94.70	142	C10H22	124-18-5
Decane	replib	947	947	32.15	94.70	142	C10H22	124-18-5
Decane	replib	945	954	32.15	94.77	142	C10H22	124-18-5
Decane	replib2	943	945	32.15	94.36	142	C10H22	124-18-5
Decane	replib2	923	923	32.15	92.30	142	C10H22	124-18-5
Decane	replib	923	923	32.15	92.30	142	C10H22	124-18-5
Decane	NISTDEMO	918	923	32.15	91.95	142	C10H22	124-18-5
Decane	replib2	918	923	32.15	91.95	142	C10H22	124-18-5
Undecane	replib2	911	930	7.94	91.67	156	C11H24	1120-21-4

QA/QC - Laboratory supplies



Report Printed 10/2/2019

Ignitable Liquids Database

- [SUBSTRATE Database]
-
- Home
- Search Database
- Classification Criteria / Definitions
- Instrument Parameters
- Sample Preparation
- Contacts
- User Guide
- Member Area
  - Committe Area
  - Administration

Search Database

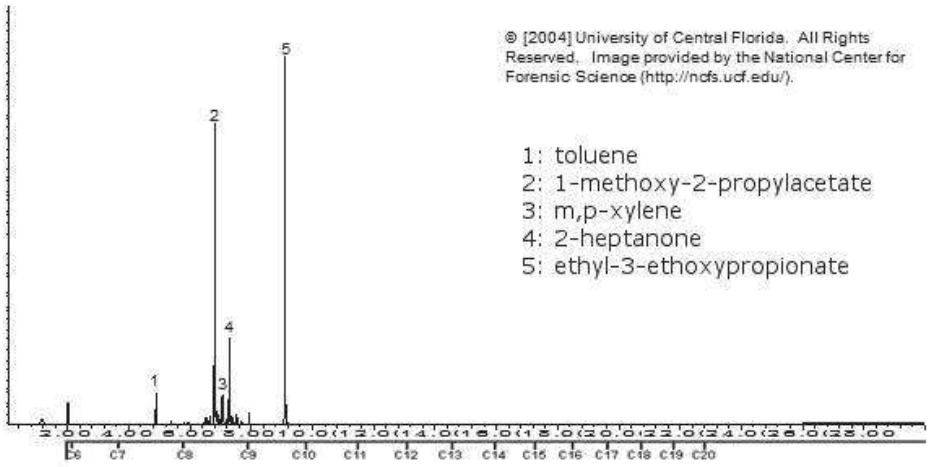
SRN	
Neat Liquids Only	☐
Classification	Search
Component Class	Select Value
Degradation Type	Select Value
Extent of Degradation	Select Value
HC Range	
Low >=	Search
High <=	Search
Product Use	Search
Brand Name	
Major Peaks	2-heptanone
Predominant ion profile	Search
Keyword Advanced Keyword	
Show All Records	☐

View complete List

Clear Search

Ignitable Liquids Reference Collection
Total Records: 5
Certain browsers scale the image. Please click on the image to zoom in/out

SRN	Brand Name	HC Range	Predominant ion profile	Classification

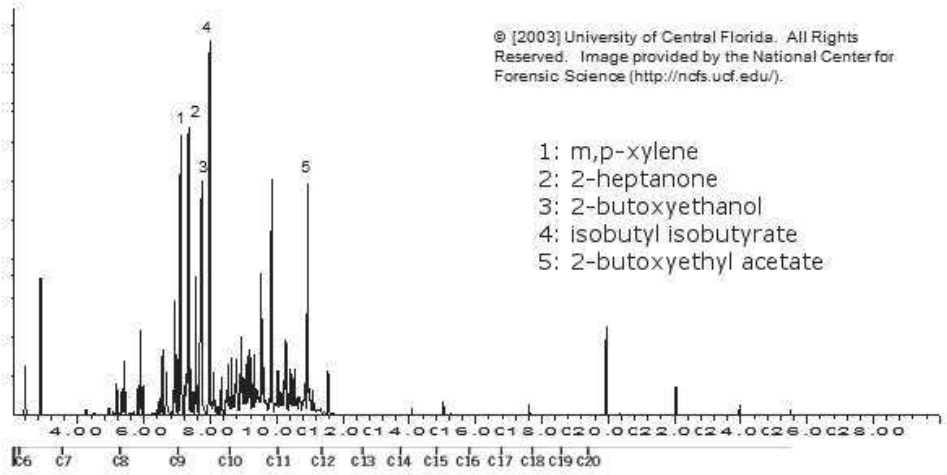


1: toluene
2: 1-methoxy-2-propylacetate
3: m,p-xylene
4: 2-heptanone
5: ethyl-3-ethoxypropionate

SRN	0219
Brand Name	PPG DT885 Reducer
HC Range	C 5-C 10
Predominant ion profile	Aromatics
Classification	Oxygenated
Major Peaks	1-methyoxy-2-propyl acetate 2-heptanone ethyl-3-ethoxypropionate m,p-xylene toluene

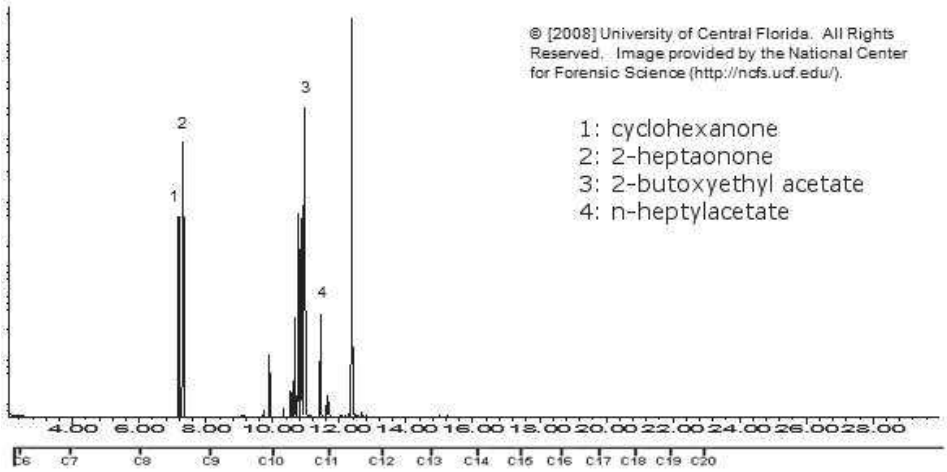
Sample detail & download section

SRN	0252
Brand Name	DEFT Clear Wood Finish (Gloss)



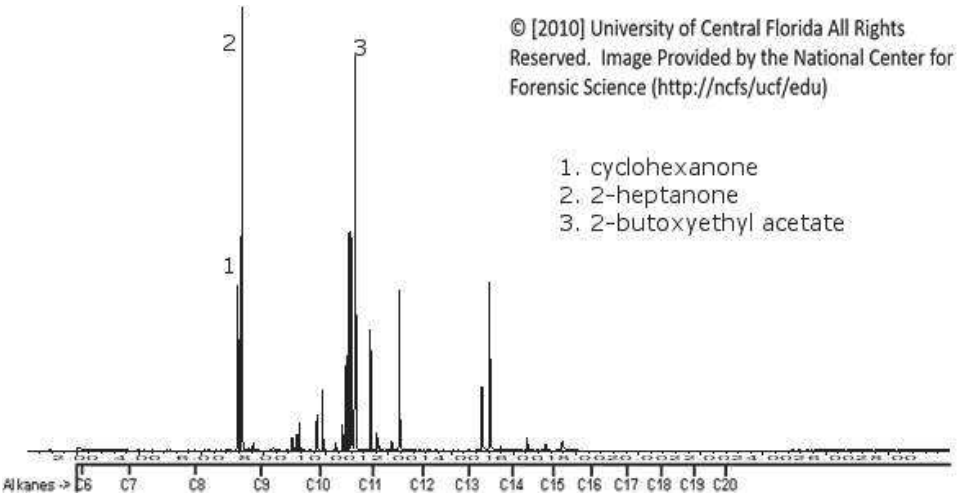
HC Range	C 6-C 11
Predominant ion profile	Alkanes
Classification	Oxygenated
Major Peaks	2-butoxyethanol 2-butoxyethyl acetate 2-heptanone isobutyl isobutyrate m,p-xylene

Sample detail & download section



SRN	0456
Brand Name	Interlux 2333N Reducing Solvent
HC Range	C 8-C 12
Predominant ion profile	Alkanes
Classification	Oxygenated
Major Peaks	2-butoxyethyl acetate 2-heptanone cyclohexanone heptylacetate

Sample detail & download section

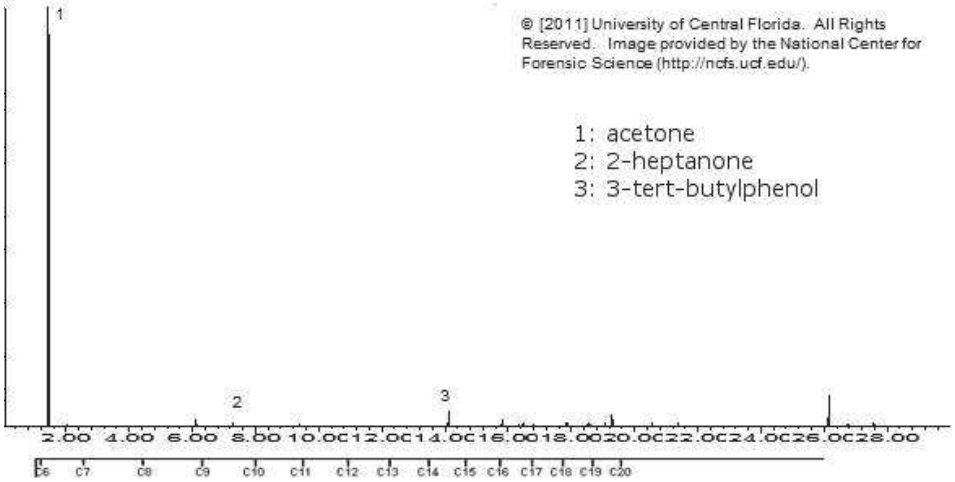


SRN	0565
Brand Name	Interlux 233N Reducing Solvent
HC Range	C 8-C 14
Predominant ion profile	Alkanes
Classification	Oxygenated
Major Peaks	2-butoxyethyl acetate 2-heptanone cyclohexanone

Sample detail & download section

SRN	0626
Brand Name	Armacell 520 BLV Adhesive
HC Range	C 4-C 17
Predominant ion profile	Alkanes
Classification	Oxygenated
Major Peaks	2-heptanone 3-tert-butylphenol acetone

Sample detail & download section



1: acetone
2: 2-heptanone
3: 3-tert-butylphenol

Michigan State Police

Micro Chemistry
- Main Form

				Lab #:	NV20-41
				Record #:	1
				Case Disc #:	A
				Date:	2/5/2020
Inv. Agency:	Hamburg Township Police Department	Case #:	1900914	Phone #:	8102311000
Inv. Officer:	Harpe, Gary	Phone #:		Cell Phone #:	
Analyst:	Cervenak, Eric	Analyst ID:		Receipt Date:	1/7/2020

TYPE OF CASE:

Item No	Description
1	Charred wood
2	Charred wood and debris
3	Wood (comparison sample)

Item No	Brief Description

GENERATE CASE RESULTS:

Case Type

Arson

Results: Negative

Item(s): 1, 2

Open Text:

Results: Aromatic product

Item(s): 3

Content: medium

Open Text:

GENERATE DISPOSITION STATEMENTS:

Include in Report	Disposition Option	
☑	Placed in storage	

REVIEW LAB REPORT:

CASE RESULTS:

The volatile contents of Items 1 - 3 were extracted using a passive carbon adsorption/elution technique and analyzed by gas chromatography - mass spectrometry (GC-MS).

No ignitable liquid residues were identified in Items 1 and 2 (Not Identified).

A medium aromatic product was identified in Item 3 (Identification). Examples include, but are not limited to, some automotive parts cleaners, specialty cleaning solvents, insecticides and brush cleaners.

Explanation of Terms:

The following descriptions are meant to provide context to the types of opinions reached in fire debris / ignitable liquid examinations.

Identification: The sample contained an ignitable liquid or residues of an ignitable liquid.

Not Identified: Compounds were detected that may be present in some ignitable liquids. Possible factors that prevented identification of an ignitable liquid may include one or more of the following:
The detected compounds may originate from substrate materials and/or pyrolysis of substrate materials
Other compounds in the sample impeded data interpretation
An unexplained absence of components and/or differences in ratios of compound types compared to a reference liquid was observed
No comparable sample in the reference collection was found

Not Detected: The data did not indicate the presence of an ignitable liquid.

DISPOSITION OF EVIDENCE:

The evidence was placed in storage but will be returned to the Michigan State Police Northville Forensic Laboratory at a later date for further disposition. The unanalyzed portion of the activated carbon extracts (Container 4) generated from this evidence will be returned with the evidence.

DISPOSITION OF EVIDENCE NOT SHOWN IN REPORT:

Michigan State Police

Micro Chemistry
- Instrumental Analysis

				Lab #:	NV20-41
				Record #:	1
				Case Disc #:	A
				Date:	2/5/2020
Inv. Agency:	Hamburg Township Police Department	Case #:	1900914	Phone #:	8102311000
Inv. Officer:	Harpe, Gary	Phone #:		Cell Phone #:	
Analyst:	Cervenak, Eric	Analyst ID:		Receipt Date:	1/7/2020

TYPE OF CASE:

INSTRUMENTAL ANALYSIS: GAS CHROMATOGRAPHY - MASS SPECTROMETRY

SAMPLE PREPARATION:

INSTRUMENT PARAMETERS:

Configuration:	(GR Col 1 w/AS)	AS: CTC Analytics PAL; GC: Thermo Trace GC 2000, ZB-1MS, 30m + 5m guard, 0.25mm I.D., 1um film 100% polydimethylsiloxane, installed 11/2018; MS: Thermo DSQ, electron ionization
Method:	MSP-arson-2018	Initial temp 40°C; 3.5 min hold; 12.5°/min to 170°; 30°/min to 280°; 2.43 min hold
Scan Range:	30 - 500	amu

Notes:

2/6/20:

GC-MS data collected on 2/5/20. The questioned item TICs were examined and found to have patterns and/or peaks that may provide information suitable for comparison to reference samples. TICs and EIPs were then compared to relevant reference ILs as necessary to show similarities and/or differences. Select peaks were searched against MS library.

QA/QC CHECKS:

- [x] Weekly tune performed
- [ ] Weekly standards obtained
- [x] Instrument sensitivity
- [x] System blank passed
- [x] Solvent blanks passed

GC-MS Results

Item No	Results
1	Not identified, the compound (acetone) indicated by a MS library search may be from the substrate and/or pyrolysis, but also has the potential to originate from ignitable liquids. The combination of peaks and lack of intensities would suggest pyrolysis and/or substrate. Several ketones were indicated including 2-heptanone. A search of the NCFS IL database did not yield possible sources (see reference material in object repository).
2	Not identified, the compounds (acetone and alpha-pinene) indicated by MS library searches may be from the substrate and/or pyrolysis, but also have the potential to originate from ignitable liquids. The combination of peaks and lack of intensities would suggest pyrolysis and/or substrate.
3	Medium aromatic product identified, elutes between C-8 and C-11, compared with Floquil Dio-sol model paint thinner. 2/7/20- Another reference standard was acquired and compared. There were better c-3 aromatic comparisons with Exxon 100 but the c-2 aromatics were not present. Between the 2 reference standards a medium aromatic product was identified.
	atmosphere and system blanks- No compounds detected in either control sample that would appear to impact the evidentiary samples.

Notes:

The portion of the carbon strips that were used to generate data are considered work products and were discarded after analysis.

Summary of GCMS:

Charcoal strip information: Albrayco Charcoal Strips Lot # 050719
Carbon disulfide information: Honeywell Lot #SZBG334SH & Sigma Aldrich Lot # MKBZ3195V
Internal standard information: Aldrich 4-phenyltoluene, 98%; Lot # 02625DD

Michigan State Police

Micro Chemistry
- Arson / Solvent Examination

Lab #:	NV20-41				
Record #:	1				
Case Disc #:	A				
Date:	2/5/2020				
Inv. Agency:	Hamburg Township Police Department	Case #:	1900914	Phone #:	8102311000
Inv. Officer:	Harpe, Gary	Phone #:		Cell Phone #:	
Analyst:	Cervenak, Eric	Analyst ID:		Receipt Date:	1/7/2020

TYPE OF CASE:

EXAMINATION: (PROCESSING)

Item No
1
2
3

Evidence Type: Fire Debris

Notes:

2/5/20:
Container 1: 1- Sealed metal can (quart) labeled "Sample #1" with PR# 33768 containing charred wood. No specific collection location was noted.

Container 2: 1- Sealed metal can (pint) labeled "Sample #2" with PR# 33769 containing charred wood and debris (plastic film and pebbles). No specific collection location was noted.

Container 3: 1- Sealed metal can (gallon) labeled "Sample #3" with PR# 33767 containing wood (comparison sample). No specific collection location was noted.

Fire Debris:

Temperature: Heated at 70 °C for 6 hrs.
Processing: Static Adsorption (C-strip, SPME) Eluted with CS2

Notes:

A hole was punched in the lid of each can and a full activated carbon strip was suspended through the hole on a paperclip. The hole was then taped closed. The metal can was placed into a nylon bag and heat-sealed for processing. After processing, the carbon strip was cut in half. One half of the carbon strip was tested; the untested portion will be returned to the agency. After processing, the nylon bag was disposed of.

Processing Notes:

Time in large oven: 10:00am on 2/5/20
Time out of oven: 4:00pm on 2/5/20

Item No

Evidence Type:

Notes:

Full activated carbon strips were used to collect control samples, consisting of an atmosphere control (ATM) which captured the atmosphere inside of the oven and a system control (SYS) which is a materials control, were also acquired and analyzed. One portion was tested; the untested portion will be returned to the agency.

Processing Notes:

The unanalyzed portions of the activated carbon extracts were placed in a heat-sealed packet and given container number 4 for tracking purposes (Evidence created in laboratory).

Summary of Processing:

STATE OF MICHIGAN
DEPARTMENT OF STATE POLICE
FORENSIC SCIENCE DIVISION
Grand Rapids Forensic Laboratory
720 Fuller Ave NE
Grand Rapids, MI 49503
(616) 242-6650
FAX (616) 242-6682

LABORATORY REPORT

Laboratory No.	:	NV20-41	Record No.	:	1
Investigating Ofcr.	:	Gary Harpe	Date Received	:	January 10, 2020
Agency	:	Hamburg Township Police Department	Time Received	:	3:05 p.m.
Agency No.	:	1900914	Date Completed	:	February 6, 2020

Nature of Offense:

2000-0 - Arson

Suspect(s):

Neumeier, Philip Gerhard

Evidence Received:

Container 1 Item 1	1- Sealed metal can labeled "Sample #1" with PR# 33768 containing: Charred wood
Container 2 Item 2	1- Sealed metal can labeled "Sample #2" with PR# 33769 containing: Charred wood and debris
Container 3 Item 3	1- Sealed metal can labeled "Sample #3" with PR# 33767 containing: Wood (comparison sample)

Evidence Created in the Laboratory:

Container 4	1- Heat-sealed nylon package containing the unanalyzed portion of carbon extracts in glass vials

Results:

The volatile contents of Items 1 - 3 were extracted using a passive carbon adsorption/elution technique and analyzed by gas chromatography - mass spectrometry (GC-MS).

No ignitable liquid residues were identified in Items 1 and 2 (Not Identified).

A medium aromatic product was identified in Item 3 (Identification). Examples include, but are not limited to, some automotive parts cleaners, specialty cleaning solvents, insecticides and brush cleaners.

Explanation of Terms:

The following descriptions are meant to provide context to the types of opinions reached in fire debris / ignitable liquid examinations.

Identification: The sample contained an ignitable liquid or residues of an ignitable liquid.

This report contains the conclusions, opinions, and/or interpretations of the laboratory analyst whose signature appears on this report. This analyst is qualified by education, training, and experience to perform this analysis and does so as part of his or her regular duties. The analysis was conducted in an MSP laboratory accredited under the ANAB International testing program since February 16, 2017.

The relevant supporting data upon which the expert opinion or inference was made are available for review/inspection.

Not Identified: Compounds were detected that may be present in some ignitable liquids. Possible factors that prevented identification of an ignitable liquid may include one or more of the following:

- The detected compounds may originate from substrate materials and/or pyrolysis of substrate materials
- Other compounds in the sample impeded data interpretation
- An unexplained absence of components and/or differences in ratios of compound types compared to a reference liquid was observed
- No comparable sample in the reference collection was found

Not Detected: The data did not indicate the presence of an ignitable liquid.

Disposition of Evidence:

The evidence was placed in storage but will be returned to the Michigan State Police Northville Forensic Laboratory at a later date for further disposition. The unanalyzed portion of the activated carbon extracts (Container 4) generated from this evidence will be returned with the evidence.

Eric M. Cervenak
Forensic Scientist
Trace Evidence Unit
email: CervenakE@michigan.gov

February 6, 2020

cc: Hamburg Twp PD Agency

This report contains the conclusions, opinions, and/or interpretations of the laboratory analyst whose signature appears on this report. This analyst is qualified by education, training, and experience to perform this analysis and does so as part of his or her regular duties. The analysis was conducted in an MSP laboratory accredited under the ANAB International testing program since February 16, 2017.

The relevant supporting data upon which the expert opinion or inference was made are available for review/inspection.