284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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# DATA PACKAGE

## SEMI-VOLATILE ORGANICS

**PROJECT NAME : FORMER SCHLUMBERGER SITE PRINCETON NJ**

**JACOBS ENGINEERING GROUP, INC.**

**412 Mt. Kemble Ave**

**Downtown Building**

**Morristown, NJ - 07960**

**Phone No: 9732670555**

**ORDER ID : P3457**

**ATTENTION : Mary I. Murphy**

**Laboratory Certification ID # 20012**

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# Cover Page

**Order ID :** P3457

**Project ID :** Former Schlumberger Site Princeton NJ

**Client :** JACOBS Engineering Group, Inc.

| Lab Sample Number | Client Sample Number |
|---|---|
| P3457-01 | 924-K1-WS-080224 |
| P3457-02 | 932-K1-WS-080224 |
| P3457-03 | TB-01-080224 |

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : N. N. Pandya

APPROVED
Nimisha Pandya QA/QC Supervisor Pandya , 10/30/2024, 12:48:08 PM

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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# CASE NARRATIVE

**JACOBS Engineering Group, Inc.**
**Project Name: Former Schlumberger Site Princeton NJ**
**Project # N/A**
**Chemtech Project # P3457**
**Test Name: SVOCMS Group6**

**A. Number of Samples and Date of Receipt:**
3 Water samples were received on 08/02/2024.

**B. Parameters**
According to the Chain of Custody document, the following analyses were requested: Hexavalent Chromium, Mercury, Metals Group4, SVOCMS Group3, SVOCMS Group6 and VOCMS Group6. This data package contains results for SVOCMS Group6.

**C. Analytical Techniques:**
The samples were analyzed on instrument BNA_F using GC Column DB-UI 8270D which is 20 meters, 0.18 mm ID, 0.36 um dfThe analysis of SVOCMS Group6 was based on method 8270E and extraction was done based on method 3510.

**D. QA/ QC Samples:**
The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for PB162489BL [2,4,6-Tribromophenol - 122%, Phenol-d6 - 111%, Terphenyl-d14 - 136%], these compounds did not meet the NJDKQP criteria but met the in-house criteria.

The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.

The MS {P3466-02MS} with File ID: BF139004.D recoveries met the requirements for all compounds except for Fluoranthene[132%] ,this compound did not meet the NJDKQP criteria but met the in-house criteria also Benzaldehyde[0%] this compound did not meet the NJDKQP criteria and in-house criteria due to matrix interference.

The MSD {P3466-03MSD} with File ID: BF139005.D recoveries met the acceptable requirements except for 2-Methylphenol[69%], Fluoranthene[132%] these compounds did not meet the NJDKQP criteria but met the in-house criteria and Benzaldehyde[0%] this compound did not meet the NJDKQP criteria and in-house criteria due to matrix interference.

The RPD met criteria .
The Blank Spike met requirements for all samples .

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The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .

The Continuous Calibration File ID BF138879.D met the requirements except for Benzaldehyde, is marginally biased low therefore no corrective action was taken.

The Tuning criteria met requirements.

**E. Additional Comments:**
This data package has been revised due to parameter list changed.

The Form 6 is not included in the data package because the Initial Calibration was performed using 8 points.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

**F. Manual Integration Comments:**
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

---

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature N. N. Pandya

APPROVED
Nimisha Pandya QA/QC Supervisor Pandya , 10/30/2024, 12:48:17 PM

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# DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

| | |
|---|---|
| Value | If the result is a value greater than or equal to the detection limit, report the value |
| **U** | Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required. |
| **ND** | Indicates the analyte was analyzed for, but not detected |
| **J** | Indicates an estimated value. This flag is used:<br>(1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.)<br>(2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others. |
| **B** | Indicates the analyte was found in the blank as well as the sample report as "12 B". |
| **E** | Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis. |
| **D** | This flag identifies all compounds identified in an analysis at a secondary dilution factor. |
| **P** | This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P". |
| **N** | This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used. |
| **A** | This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product. |
| **Q** | Indicates the LCS did not meet the control limits requirements |

QA Control # A3040960

## GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: P3457 MATRIX: Water

METHOD: 8270E/3510

| | | NA | NO | YES |
|---|---|---|---|---|
| 1. | Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks) | | | ✓ |
| 2. | GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ) | | | ✓ |
| 3. | GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series. | | | ✓ |
| 4. | GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series. | | | ✓ |
| 5. | GC/MS Calibration Requirements. | | | ✓ |

The Initial Calibration met the requirements .

The Continuous Calibration File ID BF138879.D met the requirements except for Benzaldehyde, is marginally biased low therefore no corrective action was taken.

| | | | | |
|---|---|---|---|---|
| 6. | Blank Contamination - If yes, list compounds and concentrations in each blank: | | ✓ | |
| 7. | Surrogate Recoveries Meet Criteria | | ✓ | |

If not met, list those compounds and their recoveries which fall outside the acceptable ranges.

The Surrogate recoveries met the acceptable criteria except for PB162489BL [2,4,6-Tribromophenol - 122%, Phenol-d6 - 111%, Terphenyl-d14 - 136%], these compounds did not meet the NJDKQP criteria but met the in-house criteria.

## GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

| | | NA | NO | YES |
|---|---|---|---|---|
| 8. | Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria | | ✓ | |
| | If not met, list those compounds and their recoveries which fall outside the acceptable range. | | | |
| | The MS {P3466-02MS} with File ID: BF139004.D recoveries met the requirements for all compounds except for Fluoranthene[132%] ,this compound did not meet the NJDKQP criteria but met the in-house criteria also Benzaldehyde[0%] this compound did not meet the NJDKQP criteria and in-house criteria due to matrix interference. | | | |
| | The MSD {P3466-03MSD} with File ID: BF139005.D recoveries met the acceptable requirements except for 2-Methylphenol[69%], Fluoranthene[132%] these compounds did not meet the NJDKQP criteria but met the in-house criteria and Benzaldehyde[0%] this compound did not meet the NJDKQP criteria and in-house criteria due to matrix interference. | | | |
| | The Blank Spike met requirements for all samples . | | | |
| 9. | Internal Standard Area/Retention Time Shift Meet Criteria | | | ✓ |
| | Comments: | | | |
| 10. | Extraction Holding Time Met | | | ✓ |
| | If not met, list number of days exceeded for each sample: | | | |
| 11. | Analysis Holding Time Met | | | ✓ |
| | If not met, list number of days exceeded for each sample: | | | |

ADDITIONAL COMMENTS:

This data package has been revised due to parameter list changed.

The Form 6 is not included in the data package because the Initial Calibration was performed using 8 points.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

S. M. Jodhani

QA REVIEW

**REVIEWED**
*By Sohil Jodhani, QA/QC Director at 9:48 am, Oct 30, 2024*

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## APPENDIX A

## QA REVIEW GENERAL DOCUMENTATION

**Project #:** P3457

| | Completed |
|---|---|
| **For thorough review, the report must have the following:** | |
| **GENERAL:** | |
| **Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)** | ✓ |
| **Check chain-of-custody for proper relinquish/return of samples** | ✓ |
| **Is the chain of custody signed and complete** | ✓ |
| **Check internal chain-of-custody for proper relinquish/return of samples /sample extracts** | ✓ |
| **Collect information for each project id from server. Were all requirements followed** | ✓ |
| **COVER PAGE:** | |
| **Do numbers of samples correspond to the number of samples in the Chain of Custody on login page** | ✓ |
| **Do lab numbers and client Ids on cover page agree with the Chain of Custody** | ✓ |
| **CHAIN OF CUSTODY:** | |
| **Do requested analyses on Chain of Custody agree with form I results** | ✓ |
| **Do requested analyses on Chain of Custody agree with the log-in page** | ✓ |
| **Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody** | ✓ |
| **Were the samples received within hold time** | ✓ |
| **Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle** | ✓ |
| **ANALYTICAL:** | |
| **Was method requirement followed?** | ✓ |
| **Was client requirement followed?** | ✓ |
| **Does the case narrative summarize all QC failure?** | ✓ |
| **All runlogs and manual integration are reviewed for requirements** | ✓ |
| **All manual calculations and /or hand notations verified** | ✓ |

**QA Review Signature:** SOHIL JODHANI **Date:** 10/14/2024

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | P3457 | **OrderDate:** | 8/2/2024 12:31:00 PM |
| **Client:** | JACOBS Engineering Group, Inc. | **Project:** | Former Schlumberger Site Princeton NJ |
| **Contact:** | Mary I. Murphy | **Location:** | J21,VOA Ref. #3 Water |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **P3457-01** | **924-K1-WS-080224** | **Water** | | | **08/02/24** | | | **08/02/24** |
| | | | SVOCMS Group3 | 8270-Modified | | 08/05/24 | 08/06/24 | |
| | | | SVOCMS Group6 | 8270E | | 08/05/24 | 08/10/24 | |
| **P3457-02** | **932-K1-WS-080224** | **Water** | | | **08/02/24** | | | **08/02/24** |
| | | | SVOCMS Group3 | 8270-Modified | | 08/05/24 | 08/06/24 | |
| | | | SVOCMS Group6 | 8270E | | 08/05/24 | 08/10/24 | |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** P3457

**Client:** JACOBS Engineering Group, Inc.

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| **Client ID :** | | | | | | | | |
| | | | | 0.000 | | | | |
| | | | **Total Svoc :** | | | **0.00** | | |
| | | | **Total Concentration:** | | | **0.00** | | |

# QC SUMMARY

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# Surrogate Summary

**SW-846**

**SDG No.:** P3457

**Client:** JACOBS Engineering Group, Inc.

**Analytical Method:** 8270E

| Lab Sample ID | Client ID | Parameter | Spike (PPM) | Result (PPM) | Recovery (%) | Qual | Limits (%) Low | Limits (%) High |
|---|---|---|---|---|---|---|---|---|
| P3457-01 | 924-K1-WS-080224 | 2-Fluorophenol | 150 | 56.3 | 38 | | 15 (10) | 110 (139) |
| | | Phenol-d6 | 150 | 33.2 | 22 | | 15 (10) | 110 (134) |
| | | Nitrobenzene-d5 | 100 | 95.3 | 95 | | 30 (49) | 130 (133) |
| | | 2-Fluorobiphenyl | 100 | 98.1 | 98 | | 30 (52) | 130 (132) |
| | | 2,4,6-Tribromophenol | 150 | 149 | 99 | | 15 (44) | 110 (137) |
| | | Terphenyl-d14 | 100 | 112 | 112 | | 30 (48) | 130 (125) |
| P3457-02 | 932-K1-WS-080224 | 2-Fluorophenol | 150 | 55.1 | 37 | | 15 (10) | 110 (139) |
| | | Phenol-d6 | 150 | 32.6 | 22 | | 15 (10) | 110 (134) |
| | | Nitrobenzene-d5 | 100 | 97.9 | 98 | | 30 (49) | 130 (133) |
| | | 2-Fluorobiphenyl | 100 | 98.9 | 99 | | 30 (52) | 130 (132) |
| | | 2,4,6-Tribromophenol | 150 | 142 | 95 | | 15 (44) | 110 (137) |
| | | Terphenyl-d14 | 100 | 106 | 106 | | 30 (48) | 130 (125) |
| P3466-02MS | 924-K1-WP0-0.25-080224MS | 2-Fluorophenol | 150 | 77.1 | 51 | | 15 (10) | 110 (139) |
| | | Phenol-d6 | 150 | 45.0 | 30 | | 15 (10) | 110 (134) |
| | | Nitrobenzene-d5 | 100 | 104 | 104 | | 30 (49) | 130 (133) |
| | | 2-Fluorobiphenyl | 100 | 103 | 103 | | 30 (52) | 130 (132) |
| | | 2,4,6-Tribromophenol | 150 | 157 | 105 | | 15 (44) | 110 (137) |
| | | Terphenyl-d14 | 100 | 115 | 115 | | 30 (48) | 130 (125) |
| P3466-03MSD | 924-K1-WP0-0.25-080224MSD | 2-Fluorophenol | 150 | 75.1 | 50 | | 15 (10) | 110 (139) |
| | | Phenol-d6 | 150 | 43.2 | 29 | | 15 (10) | 110 (134) |
| | | Nitrobenzene-d5 | 100 | 104 | 104 | | 30 (49) | 130 (133) |
| | | 2-Fluorobiphenyl | 100 | 100 | 100 | | 30 (52) | 130 (132) |
| | | 2,4,6-Tribromophenol | 150 | 156 | 104 | | 15 (44) | 110 (137) |
| | | Terphenyl-d14 | 100 | 113 | 113 | | 30 (48) | 130 (125) |
| PB162489BL | PB162489BL | 2-Fluorophenol | 150 | 166 | 110 | | 15 (10) | 110 (139) |
| | | Phenol-d6 | 150 | 167 | 111 | * | 15 (10) | 110 (134) |
| | | Nitrobenzene-d5 | 100 | 112 | 112 | | 30 (49) | 130 (133) |
| | | 2-Fluorobiphenyl | 100 | 110 | 110 | | 30 (52) | 130 (132) |
| | | 2,4,6-Tribromophenol | 150 | 182 | 122 | * | 15 (32) | 110 (145) |
| | | Terphenyl-d14 | 100 | 136 | 136 | * | 30 (36) | 130 (145) |
| PB162489BS | PB162489BS | 2-Fluorophenol | 150 | 130 | 87 | | 15 (10) | 110 (139) |
| | | Phenol-d6 | 150 | 129 | 86 | | 15 (10) | 110 (134) |
| | | Nitrobenzene-d5 | 100 | 85.0 | 85 | | 30 (49) | 130 (133) |
| | | 2-Fluorobiphenyl | 100 | 86.9 | 87 | | 30 (52) | 130 (132) |
| | | 2,4,6-Tribromophenol | 150 | 139 | 92 | | 15 (32) | 110 (145) |
| | | Terphenyl-d14 | 100 | 116 | 116 | | 30 (36) | 130 (145) |

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## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** P3457

**Client:** JACOBS Engineering Group, Inc.

**Analytical Method:** SW8270E

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID:** P3466-02MS | | **Client Sample ID:** | 924-K1-WP0-0.25-080224MS | | | | | **DataFile:** | BF139004.D | | |
| Pyridine | 51 | 0 | 16.2 | ug/L | 32 | | | | 20 (10) | 160 (109) | |
| Benzaldehyde | 51 | 0 | 0 | ug/L | 0 | * | | | 20 (10) | 160 (137) | |
| 2-Methylphenol | 51 | 0 | 35.8 | ug/L | 70 | | | | 70 (37) | 130 (126) | |
| 3+4-Methylphenols | 51 | 0 | 32.7 | ug/L | 64 | | | | 20 (31) | 160 (127) | |
| Hexachloroethane | 51 | 0 | 40.8 | ug/L | 80 | | | | 20 (49) | 160 (110) | |
| Nitrobenzene | 51 | 0 | 54.7 | ug/L | 107 | | | | 70 (62) | 130 (112) | |
| Naphthalene | 51 | 0 | 49.4 | ug/L | 97 | | | | 70 (17) | 130 (157) | |
| Hexachlorobutadiene | 51 | 0 | 50.5 | ug/L | 99 | | | | 70 (52) | 130 (125) | |
| 2-Methylnaphthalene | 51 | 0 | 48.5 | ug/L | 95 | | | | 70 (38) | 130 (146) | |
| 2,4,6-Trichlorophenol | 51 | 0 | 56.6 | ug/L | 111 | | | | 70 (78) | 130 (112) | |
| 2,4,5-Trichlorophenol | 51 | 0 | 53.2 | ug/L | 104 | | | | 70 (71) | 130 (111) | |
| Acenaphthylene | 51 | 0 | 57.6 | ug/L | 113 | | | | 70 (40) | 130 (141) | |
| Acenaphthene | 51 | 0 | 52.9 | ug/L | 104 | | | | 70 (37) | 130 (146) | |
| Dibenzofuran | 51 | 0 | 56.6 | ug/L | 111 | | | | 70 (41) | 130 (145) | |
| 2,4-Dinitrotoluene | 51 | 0 | 59.6 | ug/L | 117 | | | | 70 (50) | 130 (142) | |
| Fluorene | 51 | 0 | 57.0 | ug/L | 112 | | | | 70 (39) | 130 (144) | |
| Hexachlorobenzene | 51 | 0 | 49.6 | ug/L | 97 | | | | 70 (72) | 130 (115) | |
| Pentachlorophenol | 100 | 0 | 92.4 | ug/L | 92 | | | | 20 (25) | 160 (139) | |
| Phenanthrene | 51 | 0 | 56.1 | ug/L | 110 | | | | 70 (40) | 130 (147) | |
| Anthracene | 51 | 0 | 58.4 | ug/L | 115 | | | | 70 (41) | 130 (146) | |
| Carbazole | 51 | 0 | 61.8 | ug/L | 121 | | | | 70 (37) | 130 (154) | |
| Di-n-butylphthalate | 51 | 0 | 63.6 | ug/L | 125 | | | | 70 (40) | 130 (151) | |
| Fluoranthene | 51 | 0 | 67.2 | ug/L | 132 | * | | | 70 (42) | 130 (146) | |
| Pyrene | 51 | 0 | 54.2 | ug/L | 106 | | | | 70 (41) | 130 (149) | |
| Benzo(a)anthracene | 51 | 0 | 56.3 | ug/L | 110 | | | | 70 (41) | 130 (147) | |
| Chrysene | 51 | 0 | 53.6 | ug/L | 105 | | | | 70 (44) | 130 (144) | |
| bis(2-Ethylhexyl)phthalate | 51 | 0 | 61.7 | ug/L | 121 | | | | 70 (33) | 130 (160) | |
| Benzo(b)fluoranthene | 51 | 0 | 57.9 | ug/L | 114 | | | | 70 (40) | 130 (150) | |
| Benzo(k)fluoranthene | 51 | 0 | 61.7 | ug/L | 121 | | | | 70 (40) | 130 (147) | |
| Benzo(a)pyrene | 51 | 0 | 58.3 | ug/L | 114 | | | | 70 (42) | 130 (147) | |
| Indeno(1,2,3-cd)pyrene | 51 | 0 | 46.7 | ug/L | 92 | | | | 70 (30) | 130 (166) | |
| Dibenz(a,h)anthracene | 51 | 0 | 46.6 | ug/L | 91 | | | | 70 (23) | 130 (172) | |
| Benzo(g,h,i)perylene | 51 | 0 | 42.5 | ug/L | 83 | | | | 70 (27) | 130 (167) | |
| 1,4-Dioxane | 51 | 0 | 23.5 | ug/L | 46 | | | | 20 (38) | 160 (130) | |
| 1-Methylnaphthalene | 51 | 0 | 44.8 | ug/L | 88 | | | | 70 (25) | 130 (151) | |

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## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** P3457

**Client:** JACOBS Engineering Group, Inc.

**Analytical Method:** SW8270E

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID: P3466-03MSD** | | **Client Sample ID: 924-K1-WP0-0.25-080224MSD** | | | | | | **DataFile: BF139005.D** | | | |
| Pyridine | 52.6 | 0 | 16.3 | ug/L | 31 | | 3 | | 20 (10) | 160 (109) | 20 (20) |
| Benzaldehyde | 52.6 | 0 | 0 | ug/L | 0 | * | 0 | | 20 (10) | 160 (137) | 20 (20) |
| 2-Methylphenol | 52.6 | 0 | 36.1 | ug/L | 69 | * | 1 | | 70 (37) | 130 (126) | 20 (20) |
| 3+4-Methylphenols | 52.6 | 0 | 32.8 | ug/L | 62 | | 3 | | 20 (31) | 160 (127) | 20 (20) |
| Hexachloroethane | 52.6 | 0 | 41.6 | ug/L | 79 | | 1 | | 20 (49) | 160 (110) | 20 (20) |
| Nitrobenzene | 52.6 | 0 | 55.8 | ug/L | 106 | | 1 | | 70 (62) | 130 (112) | 20 (20) |
| Naphthalene | 52.6 | 0 | 50.3 | ug/L | 96 | | 1 | | 70 (17) | 130 (157) | 20 (20) |
| Hexachlorobutadiene | 52.6 | 0 | 51.4 | ug/L | 98 | | 1 | | 70 (52) | 130 (125) | 20 (20) |
| 2-Methylnaphthalene | 52.6 | 0 | 49.2 | ug/L | 94 | | 1 | | 70 (38) | 130 (146) | 20 (20) |
| 2,4,6-Trichlorophenol | 52.6 | 0 | 56.9 | ug/L | 108 | | 3 | | 70 (78) | 130 (112) | 20 (20) |
| 2,4,5-Trichlorophenol | 52.6 | 0 | 55.9 | ug/L | 106 | | 2 | | 70 (71) | 130 (111) | 20 (20) |
| Acenaphthylene | 52.6 | 0 | 59.9 | ug/L | 114 | | 1 | | 70 (40) | 130 (141) | 20 (20) |
| Acenaphthene | 52.6 | 0 | 55.3 | ug/L | 105 | | 1 | | 70 (37) | 130 (146) | 20 (20) |
| Dibenzofuran | 52.6 | 0 | 57.7 | ug/L | 110 | | 1 | | 70 (41) | 130 (145) | 20 (20) |
| 2,4-Dinitrotoluene | 52.6 | 0 | 62.4 | ug/L | 119 | | 2 | | 70 (50) | 130 (142) | 20 (20) |
| Fluorene | 52.6 | 0 | 59.7 | ug/L | 113 | | 1 | | 70 (39) | 130 (144) | 20 (20) |
| Hexachlorobenzene | 52.6 | 0 | 51.5 | ug/L | 98 | | 1 | | 70 (72) | 130 (115) | 20 (20) |
| Pentachlorophenol | 110 | 0 | 97.5 | ug/L | 89 | | 3 | | 20 (25) | 160 (139) | 20 (20) |
| Phenanthrene | 52.6 | 0 | 58.3 | ug/L | 111 | | 1 | | 70 (40) | 130 (147) | 20 (20) |
| Anthracene | 52.6 | 0 | 59.1 | ug/L | 112 | | 3 | | 70 (41) | 130 (146) | 20 (20) |
| Carbazole | 52.6 | 0 | 64.6 | ug/L | 123 | | 2 | | 70 (37) | 130 (154) | 20 (20) |
| Di-n-butylphthalate | 52.6 | 0 | 66.6 | ug/L | 127 | | 2 | | 70 (40) | 130 (151) | 20 (20) |
| Fluoranthene | 52.6 | 0 | 69.4 | ug/L | 132 | * | 0 | | 70 (42) | 130 (146) | 20 (20) |
| Pyrene | 52.6 | 0 | 55.8 | ug/L | 106 | | 0 | | 70 (41) | 130 (149) | 20 (20) |
| Benzo(a)anthracene | 52.6 | 0 | 57.1 | ug/L | 109 | | 1 | | 70 (41) | 130 (147) | 20 (20) |
| Chrysene | 52.6 | 0 | 56.1 | ug/L | 107 | | 2 | | 70 (44) | 130 (144) | 20 (20) |
| bis(2-Ethylhexyl)phthalate | 52.6 | 0 | 63.1 | ug/L | 120 | | 1 | | 70 (33) | 130 (160) | 20 (20) |
| Benzo(b)fluoranthene | 52.6 | 0 | 59.8 | ug/L | 114 | | 0 | | 70 (40) | 130 (150) | 20 (20) |
| Benzo(k)fluoranthene | 52.6 | 0 | 66.8 | ug/L | 127 | | 5 | | 70 (40) | 130 (147) | 20 (20) |
| Benzo(a)pyrene | 52.6 | 0 | 61.5 | ug/L | 117 | | 3 | | 70 (42) | 130 (147) | 20 (20) |
| Indeno(1,2,3-cd)pyrene | 52.6 | 0 | 49.2 | ug/L | 94 | | 2 | | 70 (30) | 130 (166) | 20 (20) |
| Dibenz(a,h)anthracene | 52.6 | 0 | 49.9 | ug/L | 95 | | 4 | | 70 (23) | 130 (172) | 20 (20) |
| Benzo(g,h,i)perylene | 52.6 | 0 | 43.1 | ug/L | 82 | | 1 | | 70 (27) | 130 (167) | 20 (20) |
| 1,4-Dioxane | 52.6 | 0 | 24.1 | ug/L | 46 | | 0 | | 20 (38) | 160 (130) | 20 (20) |
| 1-Methylnaphthalene | 52.6 | 0 | 46.2 | ug/L | 88 | | 0 | | 70 (25) | 130 (151) | 20 (20) |

( ) = LABORATORY INHOUSE LIMIT

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P3457

**Client:** JACOBS Engineering Group, Inc.

**Analytical Method:** 8270E **DataFile:** BF138886.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB162489BS | Pyridine | 50 | 32.5 | ug/L | 65 | | | | 20 (29) | 160 (97) | |
| | Benzaldehyde | 50 | 38.9 | ug/L | 78 | | | | 20 (10) | 160 (162) | |
| | 2-Methylphenol | 50 | 47.4 | ug/L | 95 | | | | 70 (69) | 130 (109) | |
| | 3+4-Methylphenols | 50 | 49.8 | ug/L | 100 | | | | 20 (67) | 160 (106) | |
| | Hexachloroethane | 50 | 45.5 | ug/L | 91 | | | | 20 (76) | 160 (118) | |
| | Nitrobenzene | 50 | 43.6 | ug/L | 87 | | | | 70 (58) | 130 (106) | |
| | Naphthalene | 50 | 44.3 | ug/L | 89 | | | | 70 (64) | 130 (107) | |
| | Hexachlorobutadiene | 50 | 44.1 | ug/L | 88 | | | | 70 (69) | 130 (101) | |
| | 2-Methylnaphthalene | 50 | 46.5 | ug/L | 93 | | | | 70 (64) | 130 (107) | |
| | 2,4,6-Trichlorophenol | 50 | 45.6 | ug/L | 91 | | | | 70 (61) | 130 (110) | |
| | 2,4,5-Trichlorophenol | 50 | 44.2 | ug/L | 88 | | | | 70 (70) | 130 (106) | |
| | Acenaphthylene | 50 | 48.4 | ug/L | 97 | | | | 70 (79) | 130 (103) | |
| | Acenaphthene | 50 | 43.5 | ug/L | 87 | | | | 70 (59) | 130 (113) | |
| | Dibenzofuran | 50 | 46.4 | ug/L | 93 | | | | 70 (65) | 130 (106) | |
| | 2,4-Dinitrotoluene | 50 | 48.7 | ug/L | 97 | | | | 70 (60) | 130 (115) | |
| | Fluorene | 50 | 47.8 | ug/L | 96 | | | | 70 (64) | 130 (107) | |
| | Hexachlorobenzene | 50 | 46.4 | ug/L | 93 | | | | 70 (73) | 130 (106) | |
| | Pentachlorophenol | 100 | 75.1 | ug/L | 75 | | | | 20 (47) | 160 (114) | |
| | Phenanthrene | 50 | 47.8 | ug/L | 96 | | | | 70 (62) | 130 (109) | |
| | Anthracene | 50 | 49.0 | ug/L | 98 | | | | 70 (65) | 130 (110) | |
| | Carbazole | 50 | 46.7 | ug/L | 93 | | | | 70 (62) | 130 (106) | |
| | Di-n-butylphthalate | 50 | 55.8 | ug/L | 112 | | | | 70 (64) | 130 (106) | |
| | Fluoranthene | 50 | 48.8 | ug/L | 98 | | | | 70 (64) | 130 (110) | |
| | Pyrene | 50 | 50.1 | ug/L | 100 | | | | 70 (71) | 130 (103) | |
| | Benzo(a)anthracene | 50 | 46.9 | ug/L | 94 | | | | 70 (62) | 130 (107) | |
| | Chrysene | 50 | 48.2 | ug/L | 96 | | | | 70 (61) | 130 (108) | |
| | bis(2-Ethylhexyl)phthalate | 50 | 46.5 | ug/L | 93 | | | | 70 (59) | 130 (110) | |
| | Benzo(b)fluoranthene | 50 | 48.7 | ug/L | 97 | | | | 70 (77) | 130 (113) | |
| | Benzo(k)fluoranthene | 50 | 57.5 | ug/L | 115 | | | | 70 (77) | 130 (105) | |
| | Benzo(a)pyrene | 50 | 53.0 | ug/L | 106 | | | | 70 (72) | 130 (131) | |
| | Indeno(1,2,3-cd)pyrene | 50 | 47.2 | ug/L | 94 | | | | 70 (72) | 130 (105) | |
| | Dibenz(a,h)anthracene | 50 | 46.7 | ug/L | 93 | | | | 70 (78) | 130 (115) | |
| | Benzo(g,h,i)perylene | 50 | 41.2 | ug/L | 82 | | | | 70 (75) | 130 (118) | |
| | 1,4-Dioxane | 50 | 30.1 | ug/L | 60 | | | | 20 (38) | 160 (125) | |
| | 1-Methylnaphthalene | 50 | 43.6 | ug/L | 87 | | | | 70 (51) | 130 (114) | |

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB162489BL

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: P3457 SAS No.: P3457 SDG NO.: P3457

Lab File ID: BF138885.D Lab Sample ID: PB162489BL

Instrument ID: BNA_F Date Extracted: 08/05/2024

Matrix: (soil/water) Water Date Analyzed: 08/09/2024

Level: (low/med) LOW Time Analyzed: 12:55

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| PB162489BS | PB162489BS | BF138886.D | 08/09/2024 |
| 924-K1-WS-080224 | P3457-01 | BF138915.D | 08/10/2024 |
| 932-K1-WS-080224 | P3457-02 | BF138916.D | 08/10/2024 |
| 924-K1-WP0-0.25-080224MS | P3466-02MS | BF139004.D | 08/14/2024 |
| 924-K1-WP0-0.25-080224MSD | P3466-03MSD | BF139005.D | 08/14/2024 |

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM SAS No.: P3457 SDG NO.: P3457

Lab File ID: BF138679.D DFTPP Injection Date: 07/30/2024

Instrument ID: BNA_F DFTPP Injection Time: 12:24

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 49.4 |
| 68 | Less than 2.0% of mass 69 | 0.8 ( 1.9 ) 1 |
| 69 | Mass 69 relative abundance | 41.1 |
| 70 | Less than 2.0% of mass 69 | 0.2 ( 0.4 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 51.5 |
| 197 | Less than 2.0% of mass 198 | 0.0 |
| 198 | Base Peak, 100% relative abundance | 100 |
| 199 | 5.0 to 9.0% of mass 198 | 6.8 |
| 275 | 10.0 - 60.0% of mass 198 | 25.9 |
| 365 | Greater than 1% of mass 198 | 2.9 |
| 441 | Present, but less than mass 443 | 12.3 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 14.8 (18.9) 2 |

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDICC2.5 | SSTDICC2.5 | BF138680.D | 07/30/2024 | 12:54 |
| SSTDICC005 | SSTDICC005 | BF138681.D | 07/30/2024 | 13:25 |
| SSTDICC010 | SSTDICC010 | BF138682.D | 07/30/2024 | 13:56 |
| SSTDICC020 | SSTDICC020 | BF138683.D | 07/30/2024 | 14:25 |
| SSTDICCC040 | SSTDICCC040 | BF138684.D | 07/30/2024 | 14:56 |
| SSTDICC050 | SSTDICC050 | BF138685.D | 07/30/2024 | 15:27 |
| SSTDICC060 | SSTDICC060 | BF138686.D | 07/30/2024 | 15:58 |
| SSTDICC080 | SSTDICC080 | BF138687.D | 07/30/2024 | 16:29 |

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM SAS No.: P3457 SDG NO.: P3457

Lab File ID: BF138878.D DFTPP Injection Date: 08/09/2024

Instrument ID: BNA_F DFTPP Injection Time: 09:17

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 46.8 |
| 68 | Less than 2.0% of mass 69 | 0.8 ( 1.9 ) 1 |
| 69 | Mass 69 relative abundance | 39.9 |
| 70 | Less than 2.0% of mass 69 | 0.2 ( 0.4 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 49.4 |
| 197 | Less than 2.0% of mass 198 | 0.0 |
| 198 | Base Peak, 100% relative abundance | 100 |
| 199 | 5.0 to 9.0% of mass 198 | 7.1 |
| 275 | 10.0 - 60.0% of mass 198 | 25.7 |
| 365 | Greater than 1% of mass 198 | 2.9 |
| 441 | Present, but less than mass 443 | 12.8 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 15.1 (18.4) 2 |

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDCCC040 | SSTDCCC040 | BF138879.D | 08/09/2024 | 09:48 |
| PB162489BL | PB162489BL | BF138885.D | 08/09/2024 | 12:55 |
| PB162489BS | PB162489BS | BF138886.D | 08/09/2024 | 13:25 |

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM SAS No.: P3457 SDG NO.: P3457

Lab File ID: BF138900.D DFTPP Injection Date: 08/10/2024

Instrument ID: BNA_F DFTPP Injection Time: 10:12

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 47.8 |
| 68 | Less than 2.0% of mass 69 | 0.3 ( 0.8 ) 1 |
| 69 | Mass 69 relative abundance | 40.9 |
| 70 | Less than 2.0% of mass 69 | 0.3 ( 0.6 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 48.7 |
| 197 | Less than 2.0% of mass 198 | 0.0 |
| 198 | Base Peak, 100% relative abundance | 100 |
| 199 | 5.0 to 9.0% of mass 198 | 6.8 |
| 275 | 10.0 - 60.0% of mass 198 | 25.6 |
| 365 | Greater than 1% of mass 198 | 3.1 |
| 441 | Present, but less than mass 443 | 13.1 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 15.6 (19.2) 2 |

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDCCC040 | SSTDCCC040 | BF138901.D | 08/10/2024 | 10:41 |
| 924-K1-WS-080224 | P3457-01 | BF138915.D | 08/10/2024 | 17:52 |
| 932-K1-WS-080224 | P3457-02 | BF138916.D | 08/10/2024 | 18:22 |

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM SAS No.: P3457 SDG NO.: P3457

Lab File ID: BF138987.D DFTPP Injection Date: 08/14/2024

Instrument ID: BNA_F DFTPP Injection Time: 11:33

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 49.7 |
| 68 | Less than 2.0% of mass 69 | 0.8 ( 1.8 ) 1 |
| 69 | Mass 69 relative abundance | 42.6 |
| 70 | Less than 2.0% of mass 69 | 0.0 ( 0.0 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 50.7 |
| 197 | Less than 2.0% of mass 198 | 0.0 |
| 198 | Base Peak, 100% relative abundance | 100 |
| 199 | 5.0 to 9.0% of mass 198 | 6.4 |
| 275 | 10.0 - 60.0% of mass 198 | 25.8 |
| 365 | Greater than 1% of mass 198 | 3 |
| 441 | Present, but less than mass 443 | 11.1 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 12.8 (18.9) 2 |

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDCCC040 | SSTDCCC040 | BF138988.D | 08/14/2024 | 12:03 |
| 924-K1-WP0-0.25-080224MS | P3466-02MS | BF139004.D | 08/14/2024 | 20:16 |
| 924-K1-WP0-0.25-080224MSD | P3466-03MSD | BF139005.D | 08/14/2024 | 20:47 |

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P3457 SAS No.: P3457 SDG NO.: P3457

EPA Sample No.: SSTDCCC040 Date Analyzed: 08/09/2024

Lab File ID: BF138879.D Time Analyzed: 09:48

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

| | | IS1 (DCB) AREA # | RT # | IS2 (NPT) AREA # | RT # | IS3 (ANT) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 65310 | 6.845 | 265298 | 8.13 | 151080 | 9.88 |
| | UPPER LIMIT | 130620 | 7.345 | 530596 | 8.628 | 302160 | 10.38 |
| | LOWER LIMIT | 32655 | 6.345 | 132649 | 7.628 | 75540 | 9.38 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PB162489BL | 40127 | 6.84 | 165520 | 8.12 | 99849 | 9.88 |
| 02 | PB162489BS | 55937 | 6.84 | 237308 | 8.12 | 135700 | 9.88 |

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P3457 SAS No.: P3457 SDG NO.: P3457

EPA Sample No.: SSTDCCC040 Date Analyzed: 08/09/2024

Lab File ID: BF138879.D Time Analyzed: 09:48

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

| | | IS4 (PHN) AREA # | RT # | IS5 (CRY) AREA # | RT # | IS6 (PRY) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 254940 | 11.363 | 120643 | 14.004 | 111360 | 15.462 |
| | UPPER LIMIT | 509880 | 11.863 | 241286 | 14.504 | 222720 | 15.962 |
| | LOWER LIMIT | 127470 | 10.863 | 60321.5 | 13.504 | 55680 | 14.962 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PB162489BL | 189104 | 11.36 | 112088 | 14.00 | 75976 | 15.47 |
| 02 | PB162489BS | 232367 | 11.36 | 113862 | 14.00 | 96864 | 15.46 |

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P3457 SAS No.: P3457 SDG NO.: P3457

EPA Sample No.: SSTDCCC040 Date Analyzed: 08/10/2024

Lab File ID: BF138901.D Time Analyzed: 10:41

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

| | | IS1 (DCB) AREA # | RT # | IS2 (NPT) AREA # | RT # | IS3 (ANT) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 63234 | 6.845 | 258541 | 8.13 | 146261 | 9.88 |
| | UPPER LIMIT | 126468 | 7.345 | 517082 | 8.628 | 292522 | 10.38 |
| | LOWER LIMIT | 31617 | 6.345 | 129271 | 7.628 | 73130.5 | 9.38 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | 924-K1-WS-080224 | 39664 | 6.84 | 160989 | 8.12 | 89864 | 9.87 |
| 02 | 932-K1-WS-080224 | 37230 | 6.84 | 143891 | 8.12 | 78846 | 9.87 |

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P3457 SAS No.: P3457 SDG NO.: P3457

EPA Sample No.: SSTDCCC040 Date Analyzed: 08/10/2024

Lab File ID: BF138901.D Time Analyzed: 10:41

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

| | | IS4 (PHN) AREA # | RT # | IS5 (CRY) AREA # | RT # | IS6 (PRY) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 247933 | 11.369 | 115525 | 14.004 | 117822 | 15.468 |
| | UPPER LIMIT | 495866 | 11.869 | 231050 | 14.504 | 235644 | 15.968 |
| | LOWER LIMIT | 123967 | 10.869 | 57762.5 | 13.504 | 58911 | 14.968 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | 924-K1-WS-080224 | 156314 | 11.36 | 70605 | 14.00 | 83219 | 15.46 |
| 02 | 932-K1-WS-080224 | 133629 | 11.36 | 64457 | 14.00 | 79602 | 15.46 |

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P3457 SAS No.: P3457 SDG NO.: P3457

EPA Sample No.: SSTDCCC040 Date Analyzed: 08/14/2024

Lab File ID: BF138988.D Time Analyzed: 12:03

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

| | | IS1 (DCB) AREA # | RT # | IS2 (NPT) AREA # | RT # | IS3 (ANT) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 46569 | 6.839 | 180395 | 8.12 | 100753 | 9.87 |
| | UPPER LIMIT | 93138 | 7.339 | 360790 | 8.622 | 201506 | 10.369 |
| | LOWER LIMIT | 23284.5 | 6.339 | 90197.5 | 7.622 | 50376.5 | 9.369 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | 924-K1-WP0-0.25-080224MS | 32155 | 6.83 | 113510 | 8.12 | 51515 | 9.87 |
| 02 | 924-K1-WP0-0.25-080224MSD | 35424 | 6.83 | 122342 | 8.12 | 56215 | 9.87 |

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P3457 SAS No.: P3457 SDG NO.: P3457

EPA Sample No.: SSTDCCC040 Date Analyzed: 08/14/2024

Lab File ID: BF138988.D Time Analyzed: 12:03

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

| | | IS4 (PHN) AREA # | RT # | IS5 (CRY) AREA # | RT # | IS6 (PRY) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 170882 | 11.357 | 83079 | 13.998 | 87305 | 15.462 |
| | UPPER LIMIT | 341764 | 11.857 | 166158 | 14.498 | 174610 | 15.962 |
| | LOWER LIMIT | 85441 | 10.857 | 41539.5 | 13.498 | 43652.5 | 14.962 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | 924-K1-WP0-0.25-080224MS | 97165 | 11.36 | 61682 | 14.00 | 47286 | 15.46 |
| 02 | 924-K1-WP0-0.25-080224MSD | 107145 | 11.36 | 69421 | 14.00 | 51366 | 15.46 |

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

# SAMPLE DATA

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JACOBS Engineering Group, Inc. | Date Collected: | 08/02/24 |
| Project: | Former Schlumberger Site Princeton NJ | Date Received: | 08/02/24 |
| Client Sample ID: | 924-K1-WS-080224 | SDG No.: | P3457 |
| Lab Sample ID: | P3457-01 | Matrix: | Water |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 970 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOCMS Group6 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF138915.D | 1 | 08/05/24 08:25 | 08/10/24 17:52 | PB162489 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 110-86-1 | Pyridine | 1.60 | U | 1.60 | 5.20 | ug/L |
| 100-52-7 | Benzaldehyde | 4.10 | U | 4.10 | 10.3 | ug/L |
| 95-48-7 | 2-Methylphenol | 1.20 | U | 1.20 | 5.20 | ug/L |
| 65794-96-9 | 3+4-Methylphenols | 1.20 | U | 1.20 | 10.3 | ug/L |
| 67-72-1 | Hexachloroethane | 1.00 | U | 1.00 | 5.20 | ug/L |
| 98-95-3 | Nitrobenzene | 1.30 | U | 1.30 | 5.20 | ug/L |
| 91-20-3 | Naphthalene | 1.10 | U | 1.10 | 5.20 | ug/L |
| 87-68-3 | Hexachlorobutadiene | 1.30 | U | 1.30 | 5.20 | ug/L |
| 91-57-6 | 2-Methylnaphthalene | 1.20 | U | 1.20 | 5.20 | ug/L |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.92 | U | 0.92 | 5.20 | ug/L |
| 95-95-4 | 2,4,5-Trichlorophenol | 1.00 | U | 1.00 | 5.20 | ug/L |
| 208-96-8 | Acenaphthylene | 1.10 | U | 1.10 | 5.20 | ug/L |
| 83-32-9 | Acenaphthene | 0.84 | U | 0.84 | 5.20 | ug/L |
| 132-64-9 | Dibenzofuran | 0.96 | U | 0.96 | 5.20 | ug/L |
| 121-14-2 | 2,4-Dinitrotoluene | 1.60 | U | 1.60 | 5.20 | ug/L |
| 86-73-7 | Fluorene | 0.99 | U | 0.99 | 5.20 | ug/L |
| 118-74-1 | Hexachlorobenzene | 1.20 | U | 1.20 | 5.20 | ug/L |
| 87-86-5 | Pentachlorophenol | 1.90 | U | 1.90 | 10.3 | ug/L |
| 85-01-8 | Phenanthrene | 0.92 | U | 0.92 | 5.20 | ug/L |
| 120-12-7 | Anthracene | 1.10 | U | 1.10 | 5.20 | ug/L |
| 86-74-8 | Carbazole | 1.20 | U | 1.20 | 5.20 | ug/L |
| 84-74-2 | Di-n-butylphthalate | 1.50 | U | 1.50 | 5.20 | ug/L |
| 206-44-0 | Fluoranthene | 1.30 | U | 1.30 | 5.20 | ug/L |
| 129-00-0 | Pyrene | 1.10 | U | 1.10 | 5.20 | ug/L |
| 56-55-3 | Benzo(a)anthracene | 0.97 | U | 0.97 | 5.20 | ug/L |
| 218-01-9 | Chrysene | 0.89 | U | 0.89 | 5.20 | ug/L |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 1.90 | U | 1.90 | 5.20 | ug/L |
| 205-99-2 | Benzo(b)fluoranthene | 1.20 | U | 1.20 | 5.20 | ug/L |
| 207-08-9 | Benzo(k)fluoranthene | 1.20 | U | 1.20 | 5.20 | ug/L |

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JACOBS Engineering Group, Inc. | Date Collected: | 08/02/24 |
| Project: | Former Schlumberger Site Princeton NJ | Date Received: | 08/02/24 |
| Client Sample ID: | 924-K1-WS-080224 | SDG No.: | P3457 |
| Lab Sample ID: | P3457-01 | Matrix: | Water |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 970 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOCMS Group6 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF138915.D | 1 | 08/05/24 08:25 | 08/10/24 17:52 | PB162489 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 50-32-8 | Benzo(a)pyrene | 1.70 | U | 1.70 | 5.20 | ug/L |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1.10 | U | 1.10 | 5.20 | ug/L |
| 53-70-3 | Dibenzo(a,h)anthracene | 1.20 | U | 1.20 | 5.20 | ug/L |
| 191-24-2 | Benzo(g,h,i)perylene | 1.20 | U | 1.20 | 5.20 | ug/L |
| 123-91-1 | 1,4-Dioxane | 1.30 | U | 1.30 | 5.20 | ug/L |
| 90-12-0 | 1-Methylnaphthalene | 0.89 | U | 0.89 | 5.20 | ug/L |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 56.3 | | 15 (10) - 110 (139) | 38% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 33.2 | | 15 (10) - 110 (134) | 22% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 95.3 | | 30 (49) - 130 (133) | 95% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 98.1 | | 30 (52) - 130 (132) | 98% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 149 | | 15 (44) - 110 (137) | 99% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 112 | | 30 (48) - 130 (125) | 112% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 39700 | 6.84 | | | |
| 1146-65-2 | Naphthalene-d8 | 161000 | 8.116 | | | |
| 15067-26-2 | Acenaphthene-d10 | 89900 | 9.869 | | | |
| 1517-22-2 | Phenanthrene-d10 | 156000 | 11.357 | | | |
| 1719-03-5 | Chrysene-d12 | 70600 | 13.998 | | | |
| 1520-96-3 | Perylene-d12 | 83200 | 15.463 | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081024\
Data File : BF138915.D
Acq On : 10 Aug 2024 17:52
Operator : RC/JU
Sample : P3457-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WS-080224

Quant Time: Aug 12 01:17:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

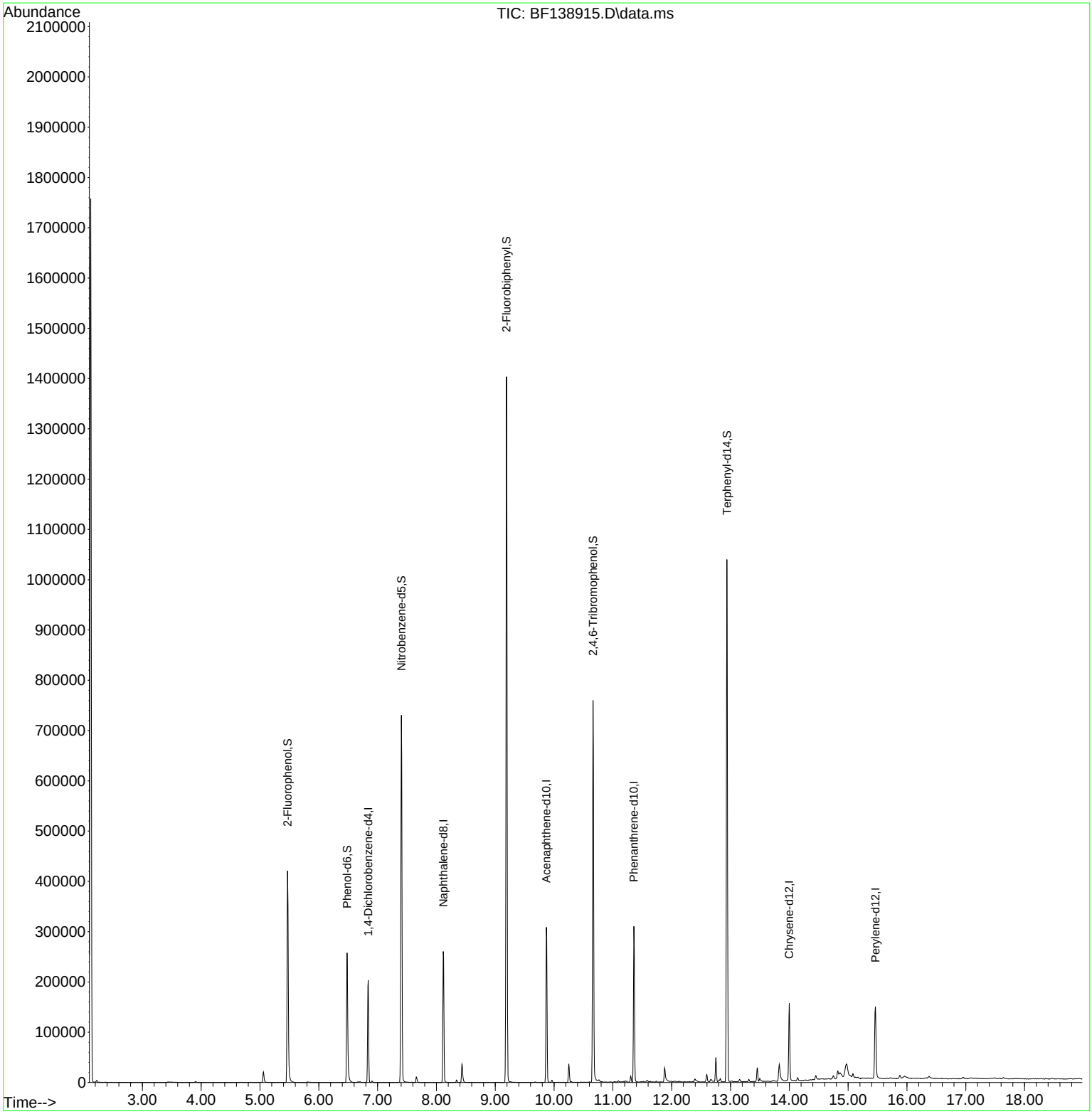
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.840 | 152 | 39664 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 8.116 | 136 | 160989 | 20.000 | ng | -0.01 |
| 39) Acenaphthene-d10 | 9.869 | 164 | 89864 | 20.000 | ng | -0.01 |
| 64) Phenanthrene-d10 | 11.357 | 188 | 156314 | 20.000 | ng | -0.01 |
| 76) Chrysene-d12 | 13.998 | 240 | 70605 | 20.000 | ng | 0.00 |
| 86) Perylene-d12 | 15.463 | 264 | 83219 | 20.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.469 | 112 | 144726 | 56.325 | ng | 0.00 |
| 7) Phenol-d6 | 6.481 | 99 | 114405 | 33.163 | ng | 0.00 |
| 23) Nitrobenzene-d5 | 7.404 | 82 | 313893 | 95.327 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.663 | 330 | 109341 | 148.540 | ng | 0.00 |
| 45) 2-Fluorobiphenyl | 9.192 | 172 | 586946 | 98.135 | ng | -0.01 |
| 79) Terphenyl-d14 | 12.939 | 244 | 471222 | 111.742 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |

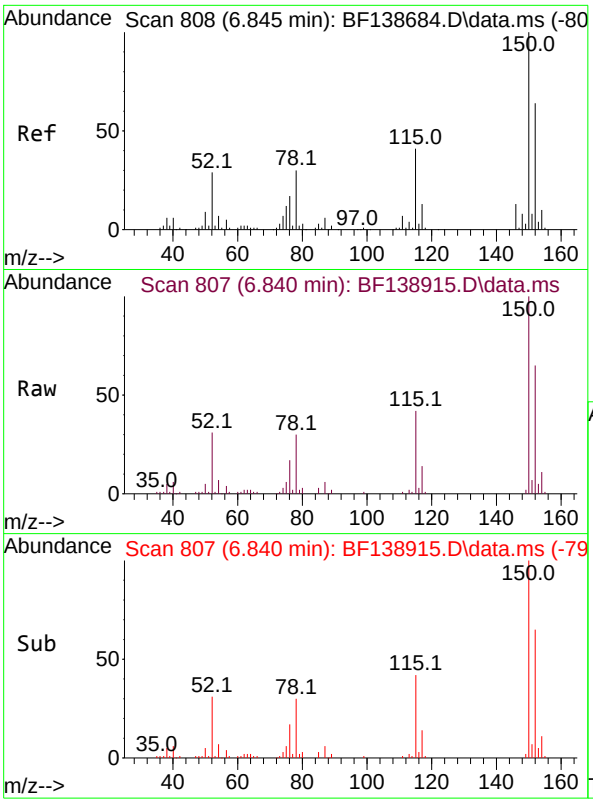
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081024\
Data File : BF138915.D
Acq On : 10 Aug 2024 17:52
Operator : RC/JU
Sample : P3457-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WS-080224

Quant Time: Aug 12 01:17:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration



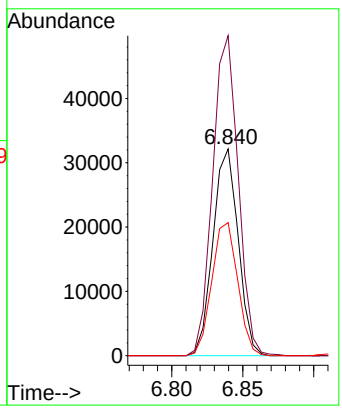


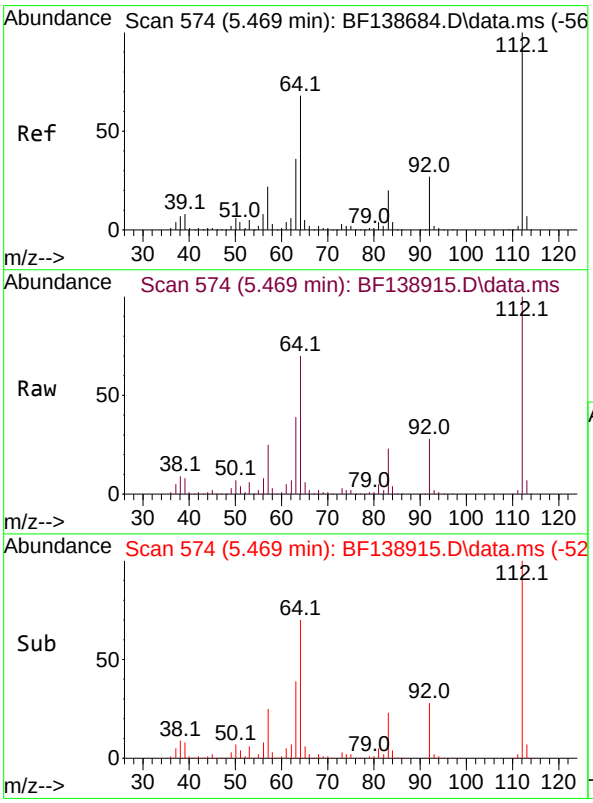

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.840 min Scan# 8
Delta R.T. -0.005 min
Lab File: BF138915.D
Acq: 10 Aug 2024 17:52

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WS-080224

Tgt Ion:152 Resp: 39664

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 154.8 | 126.0 | 189.0 |
| 115 | 64.4 | 51.7 | 77.5 |

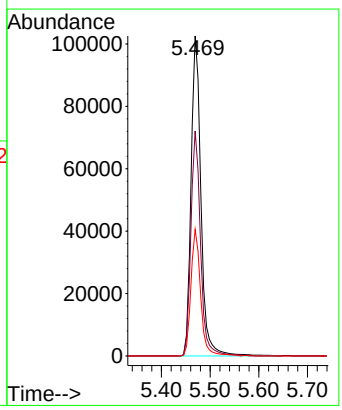


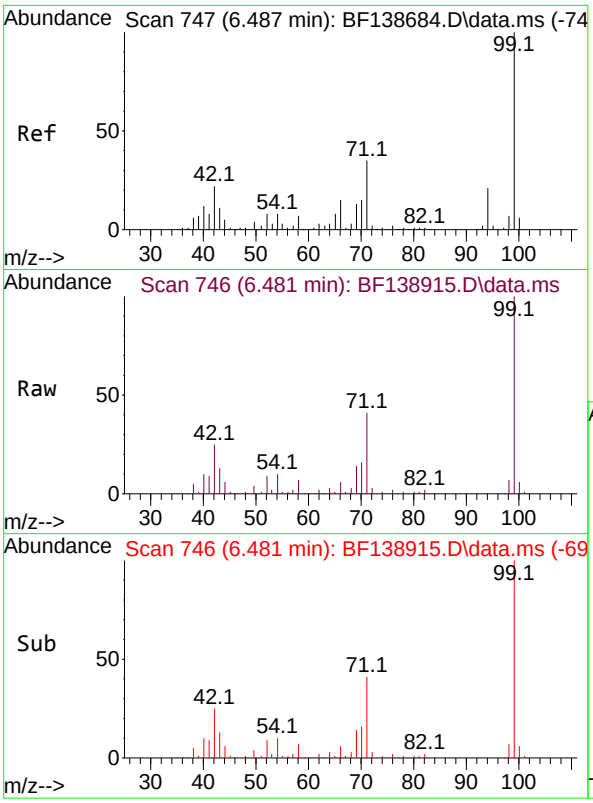




#5
2-Fluorophenol
Concen: 56.325 ng
RT: 5.469 min Scan# 574
Delta R.T. 0.000 min
Lab File: BF138915.D
Acq: 10 Aug 2024 17:52

Tgt Ion:112 Resp: 144726

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 70.3 | 54.2 | 81.4 |
| 63 | 39.5 | 28.7 | 43.1 |



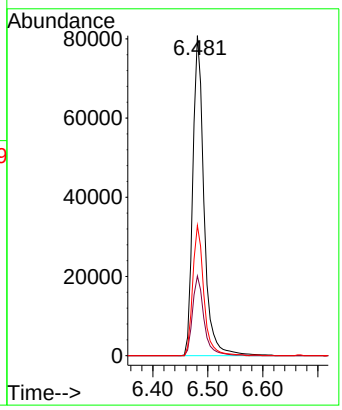


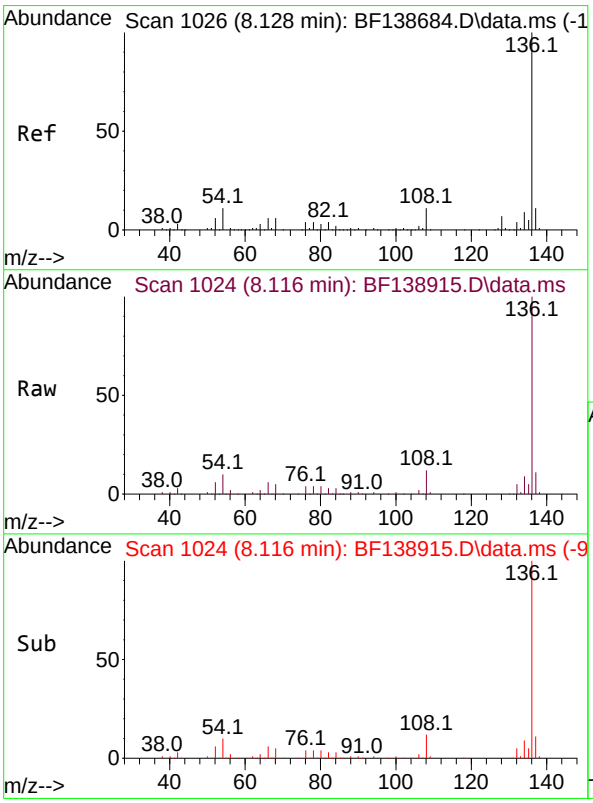

#7
Phenol-d6
Concen: 33.163 ng
RT: 6.481 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF138915.D
Acq: 10 Aug 2024 17:52

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WS-080224

Tgt Ion: 99 Resp: 114405

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 24.9 | 17.4 | 26.0 |
| 71 | 40.7 | 28.1 | 42.1 |

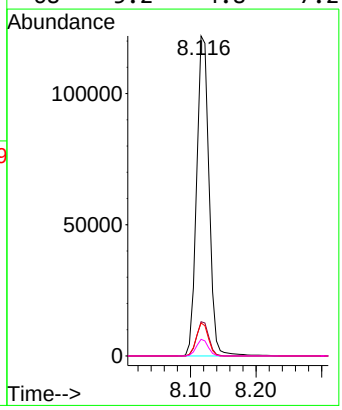


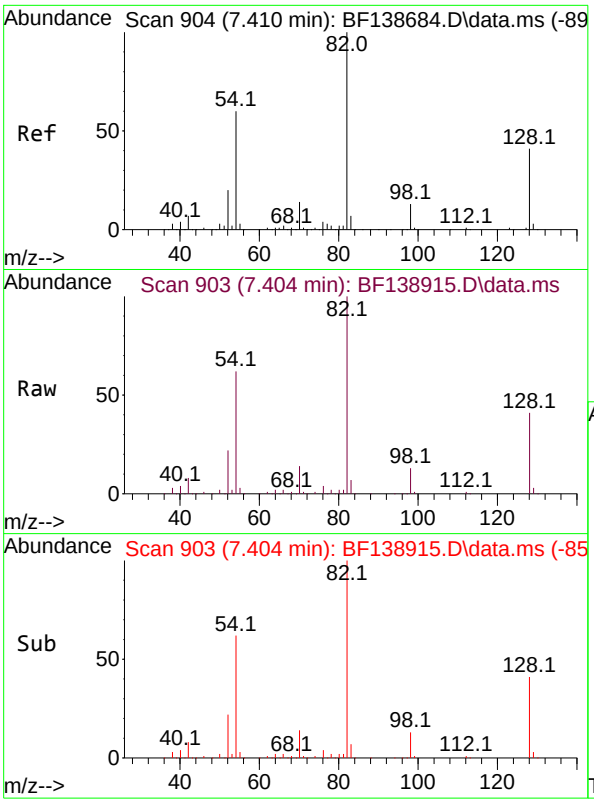




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.116 min Scan# 1024
Delta R.T. -0.012 min
Lab File: BF138915.D
Acq: 10 Aug 2024 17:52

Tgt Ion:136 Resp: 160989

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.7 | 8.9 | 13.3 |
| 54 | 10.3 | 8.6 | 12.8 |
| 68 | 5.2 | 4.8 | 7.2 |



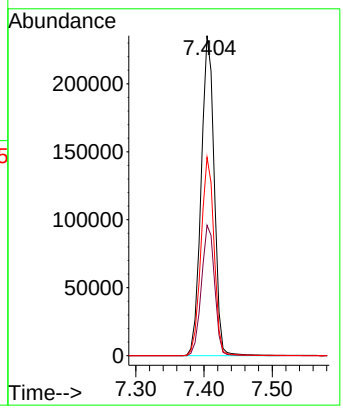


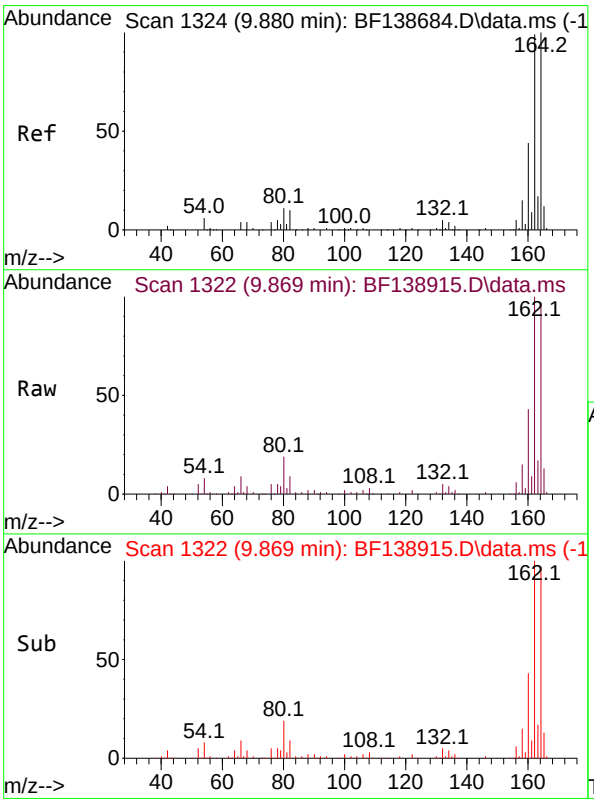

#23
Nitrobenzene-d5
Concen: 95.327 ng
RT: 7.404 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF138915.D
Acq: 10 Aug 2024 17:52

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WS-080224

Tgt Ion: 82 Resp: 313893

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 40.8 | 32.8 | 49.2 |
| 54 | 62.0 | 48.3 | 72.5 |

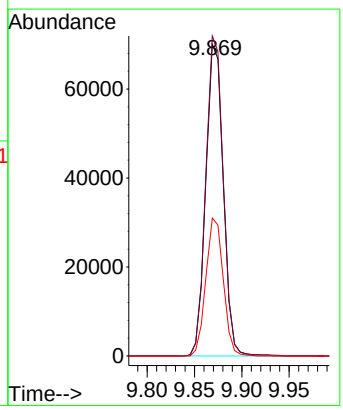


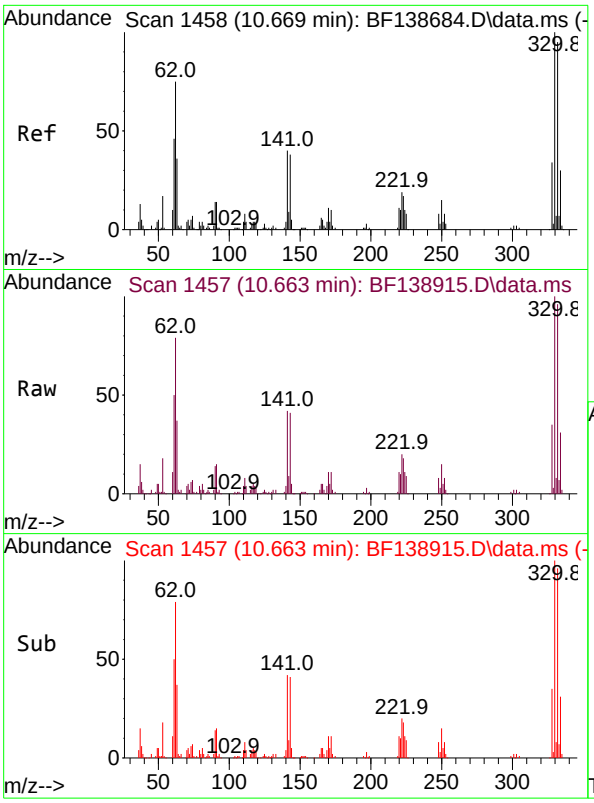




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.869 min Scan# 1322
Delta R.T. -0.011 min
Lab File: BF138915.D
Acq: 10 Aug 2024 17:52

Tgt Ion:164 Resp: 89864

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 102.6 | 79.4 | 119.0 |
| 160 | 44.2 | 35.1 | 52.7 |



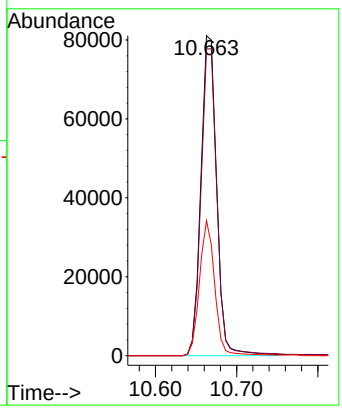


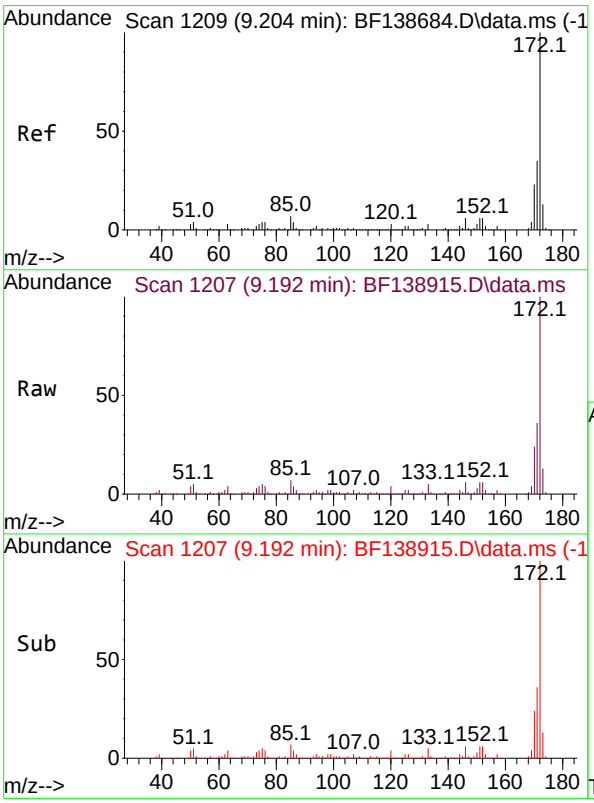

#42
2,4,6-Tribromophenol
Concen: 148.540 ng
RT: 10.663 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF138915.D
Acq: 10 Aug 2024 17:52

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WS-080224

Tgt Ion:330 Resp: 109341

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 97.1 | 76.4 | 114.6 |
| 141 | 41.0 | 31.1 | 46.7 |

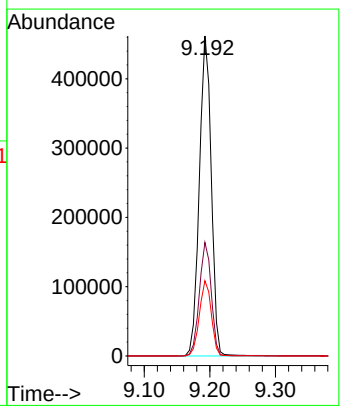


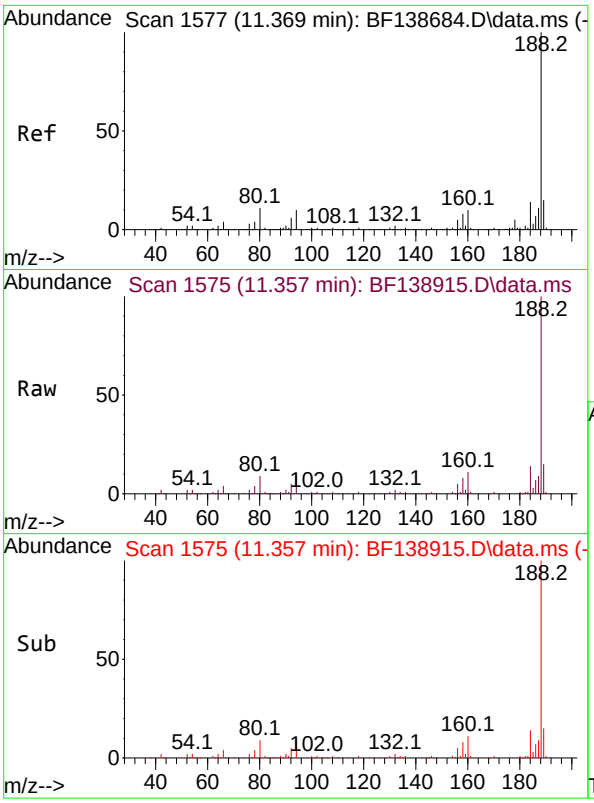




#45
2-Fluorobiphenyl
Concen: 98.135 ng
RT: 9.192 min Scan# 1207
Delta R.T. -0.012 min
Lab File: BF138915.D
Acq: 10 Aug 2024 17:52

Tgt Ion:172 Resp: 586946

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.5 | 28.3 | 42.5 |
| 170 | 23.5 | 18.8 | 28.2 |



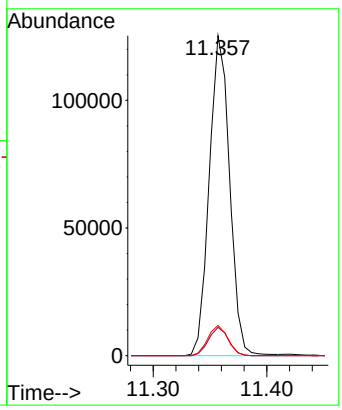


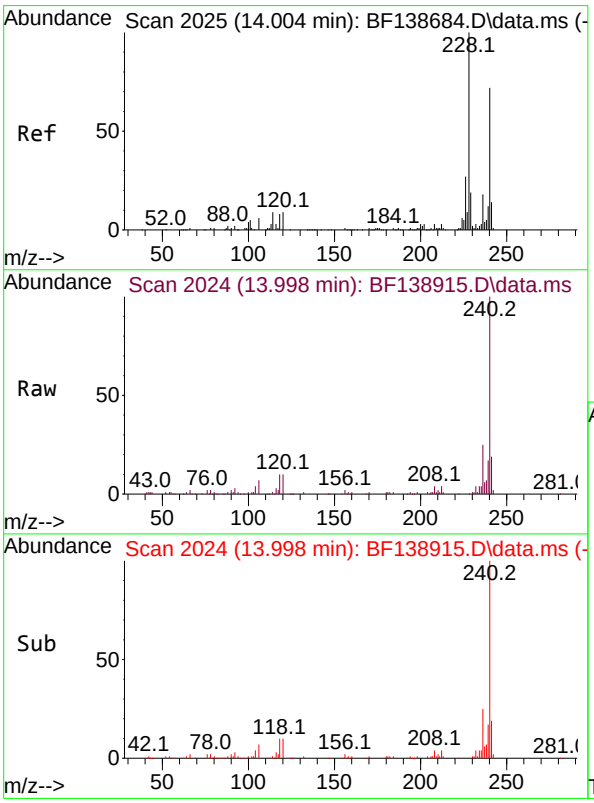

#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.357 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF138915.D
Acq: 10 Aug 2024 17:52

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WS-080224

Tgt Ion:188 Resp: 156314

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 8.9 | 7.6 | 11.4 |
| 80 | 9.4 | 8.6 | 12.8 |

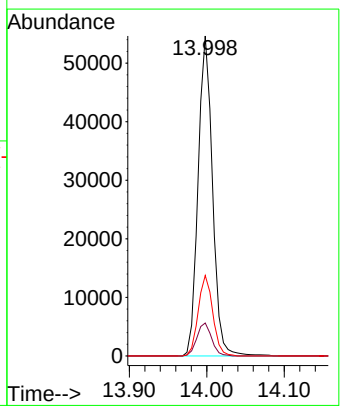


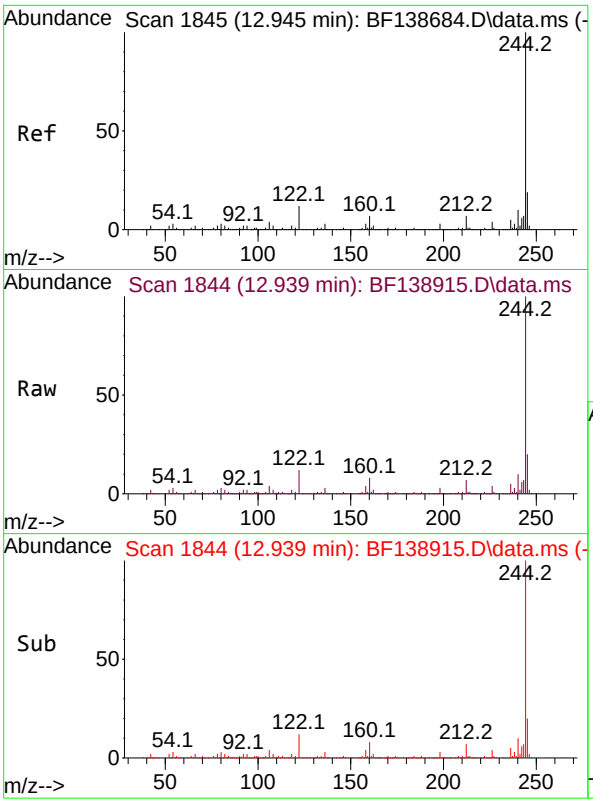




#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.998 min Scan# 2024
Delta R.T. -0.006 min
Lab File: BF138915.D
Acq: 10 Aug 2024 17:52

Tgt Ion:240 Resp: 70605

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 10.3 | 10.2 | 15.4 |
| 236 | 25.2 | 19.8 | 29.8 |



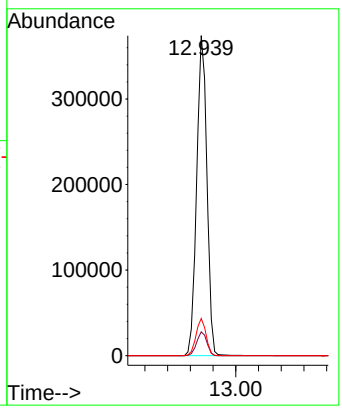


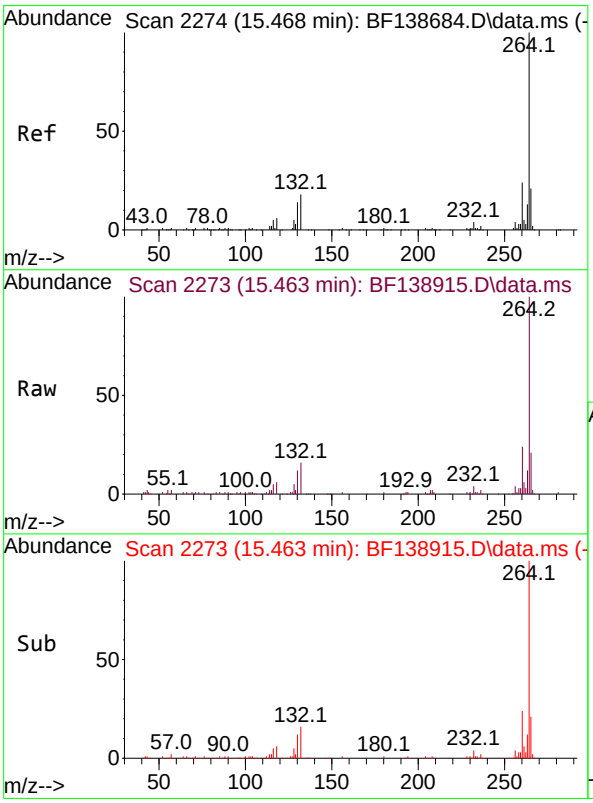

#79
Terphenyl-d14
Concen: 111.742 ng
RT: 12.939 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138915.D
Acq: 10 Aug 2024 17:52

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WS-080224

Tgt Ion:244 Resp: 471222

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.5 | 5.4 | 8.2 |
| 122 | 11.6 | 9.6 | 14.4 |

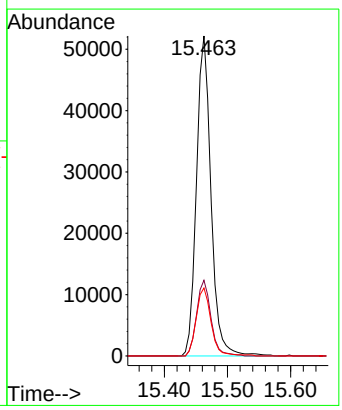



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.463 min Scan# 2273
Delta R.T. -0.006 min
Lab File: BF138915.D
Acq: 10 Aug 2024 17:52

Tgt Ion:264 Resp: 83219

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.7 | 19.0 | 28.6 |
| 265 | 21.2 | 17.0 | 25.6 |



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JACOBS Engineering Group, Inc. | Date Collected: | 08/02/24 |
| Project: | Former Schlumberger Site Princeton NJ | Date Received: | 08/02/24 |
| Client Sample ID: | 932-K1-WS-080224 | SDG No.: | P3457 |
| Lab Sample ID: | P3457-02 | Matrix: | Water |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 970 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOCMS Group6 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF138916.D | 1 | 08/05/24 08:25 | 08/10/24 18:22 | PB162489 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 110-86-1 | Pyridine | 1.60 | U | 1.60 | 5.20 | ug/L |
| 100-52-7 | Benzaldehyde | 4.10 | U | 4.10 | 10.3 | ug/L |
| 95-48-7 | 2-Methylphenol | 1.20 | U | 1.20 | 5.20 | ug/L |
| 65794-96-9 | 3+4-Methylphenols | 1.20 | U | 1.20 | 10.3 | ug/L |
| 67-72-1 | Hexachloroethane | 1.00 | U | 1.00 | 5.20 | ug/L |
| 98-95-3 | Nitrobenzene | 1.30 | U | 1.30 | 5.20 | ug/L |
| 91-20-3 | Naphthalene | 1.10 | U | 1.10 | 5.20 | ug/L |
| 87-68-3 | Hexachlorobutadiene | 1.30 | U | 1.30 | 5.20 | ug/L |
| 91-57-6 | 2-Methylnaphthalene | 1.20 | U | 1.20 | 5.20 | ug/L |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.92 | U | 0.92 | 5.20 | ug/L |
| 95-95-4 | 2,4,5-Trichlorophenol | 1.00 | U | 1.00 | 5.20 | ug/L |
| 208-96-8 | Acenaphthylene | 1.10 | U | 1.10 | 5.20 | ug/L |
| 83-32-9 | Acenaphthene | 0.84 | U | 0.84 | 5.20 | ug/L |
| 132-64-9 | Dibenzofuran | 0.96 | U | 0.96 | 5.20 | ug/L |
| 121-14-2 | 2,4-Dinitrotoluene | 1.60 | U | 1.60 | 5.20 | ug/L |
| 86-73-7 | Fluorene | 0.99 | U | 0.99 | 5.20 | ug/L |
| 118-74-1 | Hexachlorobenzene | 1.20 | U | 1.20 | 5.20 | ug/L |
| 87-86-5 | Pentachlorophenol | 1.90 | U | 1.90 | 10.3 | ug/L |
| 85-01-8 | Phenanthrene | 0.92 | U | 0.92 | 5.20 | ug/L |
| 120-12-7 | Anthracene | 1.10 | U | 1.10 | 5.20 | ug/L |
| 86-74-8 | Carbazole | 1.20 | U | 1.20 | 5.20 | ug/L |
| 84-74-2 | Di-n-butylphthalate | 1.50 | U | 1.50 | 5.20 | ug/L |
| 206-44-0 | Fluoranthene | 1.30 | U | 1.30 | 5.20 | ug/L |
| 129-00-0 | Pyrene | 1.10 | U | 1.10 | 5.20 | ug/L |
| 56-55-3 | Benzo(a)anthracene | 0.97 | U | 0.97 | 5.20 | ug/L |
| 218-01-9 | Chrysene | 0.89 | U | 0.89 | 5.20 | ug/L |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 1.90 | U | 1.90 | 5.20 | ug/L |
| 205-99-2 | Benzo(b)fluoranthene | 1.20 | U | 1.20 | 5.20 | ug/L |
| 207-08-9 | Benzo(k)fluoranthene | 1.20 | U | 1.20 | 5.20 | ug/L |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JACOBS Engineering Group, Inc. | Date Collected: | 08/02/24 |
| Project: | Former Schlumberger Site Princeton NJ | Date Received: | 08/02/24 |
| Client Sample ID: | 932-K1-WS-080224 | SDG No.: | P3457 |
| Lab Sample ID: | P3457-02 | Matrix: | Water |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 970 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOCMS Group6 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF138916.D | 1 | 08/05/24 08:25 | 08/10/24 18:22 | PB162489 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 50-32-8 | Benzo(a)pyrene | 1.70 | U | 1.70 | 5.20 | ug/L |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1.10 | U | 1.10 | 5.20 | ug/L |
| 53-70-3 | Dibenzo(a,h)anthracene | 1.20 | U | 1.20 | 5.20 | ug/L |
| 191-24-2 | Benzo(g,h,i)perylene | 1.20 | U | 1.20 | 5.20 | ug/L |
| 123-91-1 | 1,4-Dioxane | 1.30 | U | 1.30 | 5.20 | ug/L |
| 90-12-0 | 1-Methylnaphthalene | 0.89 | U | 0.89 | 5.20 | ug/L |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 55.1 | | 15 (10) - 110 (139) | 37% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 32.6 | | 15 (10) - 110 (134) | 22% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 97.9 | | 30 (49) - 130 (133) | 98% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 98.9 | | 30 (52) - 130 (132) | 99% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 142 | | 15 (44) - 110 (137) | 95% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 106 | | 30 (48) - 130 (125) | 106% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 37200 | 6.839 | | | |
| 1146-65-2 | Naphthalene-d8 | 144000 | 8.122 | | | |
| 15067-26-2 | Acenaphthene-d10 | 78800 | 9.869 | | | |
| 1517-22-2 | Phenanthrene-d10 | 134000 | 11.357 | | | |
| 1719-03-5 | Chrysene-d12 | 64500 | 13.998 | | | |
| 1520-96-3 | Perylene-d12 | 79600 | 15.462 | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081024\
Data File : BF138916.D
Acq On : 10 Aug 2024 18:22
Operator : RC/JU
Sample : P3457-02
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
932-K1-WS-080224

Quant Time: Aug 12 01:17:28 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

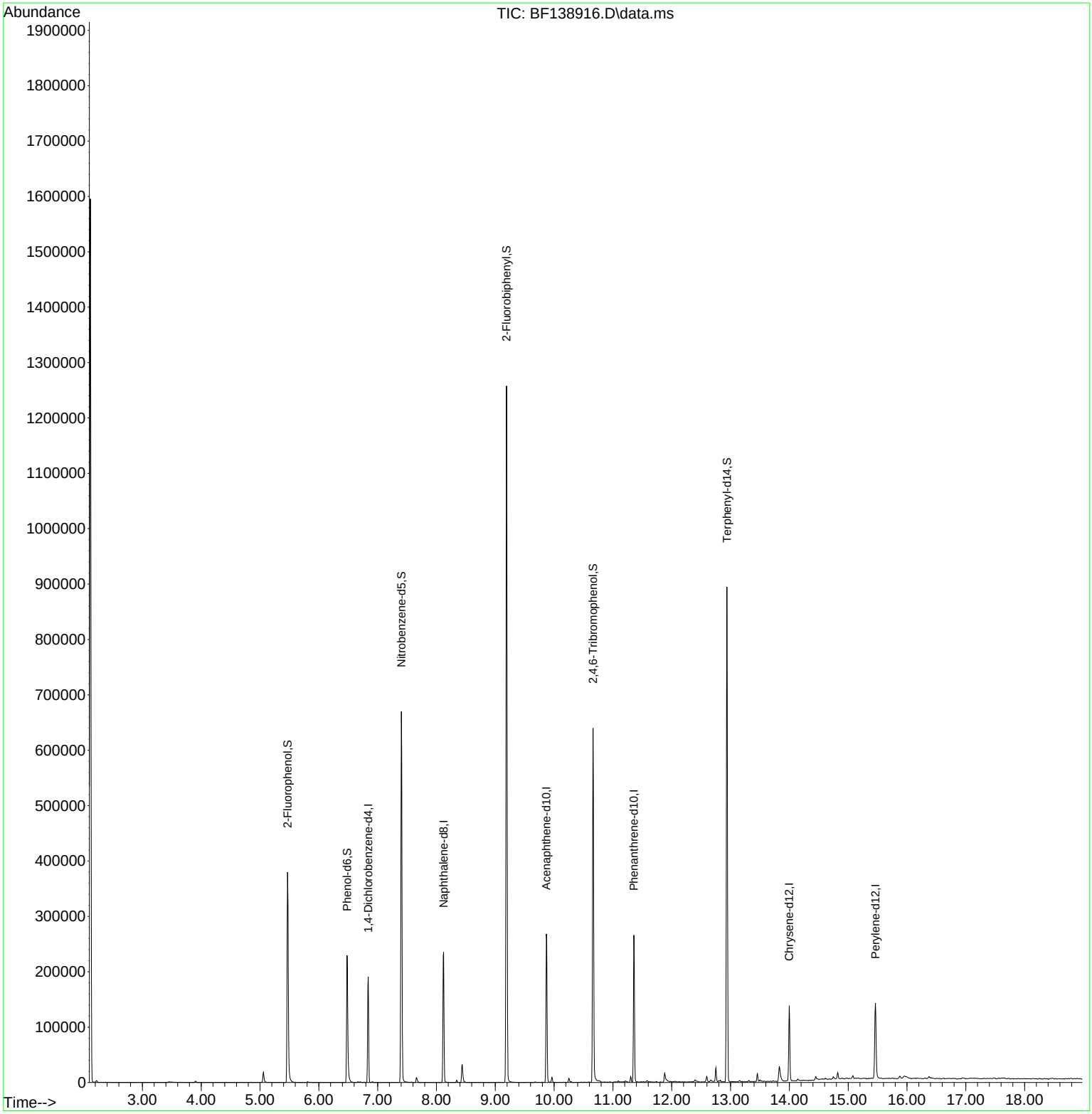
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.839 | 152 | 37230 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 8.122 | 136 | 143891 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 9.869 | 164 | 78846 | 20.000 | ng | -0.01 |
| 64) Phenanthrene-d10 | 11.357 | 188 | 133629 | 20.000 | ng | -0.01 |
| 76) Chrysene-d12 | 13.998 | 240 | 64457 | 20.000 | ng | # 0.00 |
| 86) Perylene-d12 | 15.462 | 264 | 79602 | 20.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.469 | 112 | 132816 | 55.069 | ng | 0.00 |
| 7) Phenol-d6 | 6.481 | 99 | 105633 | 32.622 | ng | 0.00 |
| 23) Nitrobenzene-d5 | 7.404 | 82 | 288003 | 97.858 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.663 | 330 | 91925 | 142.331 | ng | 0.00 |
| 45) 2-Fluorobiphenyl | 9.192 | 172 | 519141 | 98.928 | ng | -0.01 |
| 79) Terphenyl-d14 | 12.939 | 244 | 409077 | 106.258 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |

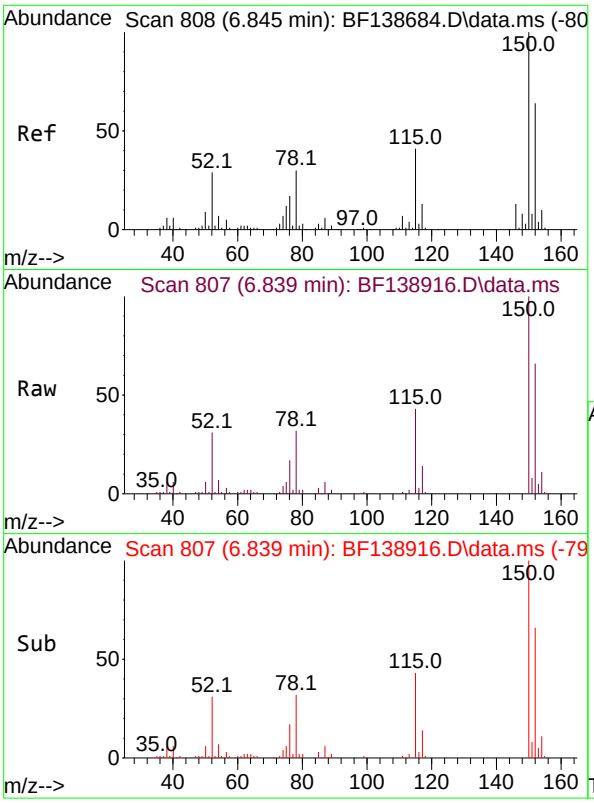
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081024\
Data File : BF138916.D
Acq On : 10 Aug 2024 18:22
Operator : RC/JU
Sample : P3457-02
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
932-K1-WS-080224

Quant Time: Aug 12 01:17:28 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration



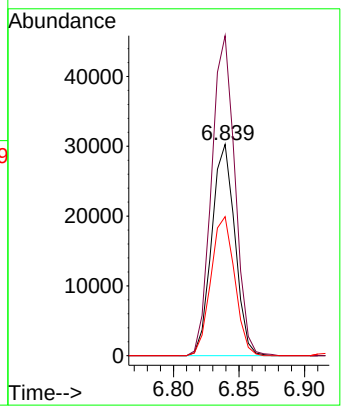


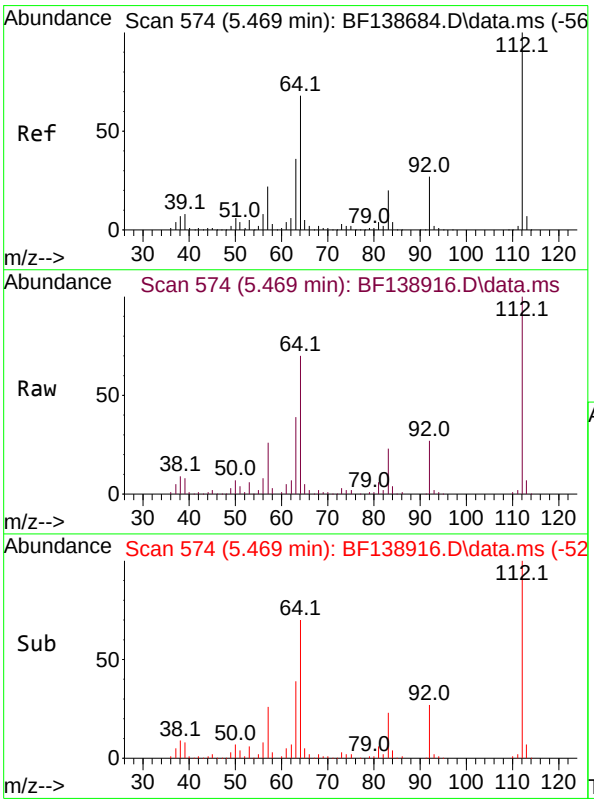

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.839 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF138916.D
Acq: 10 Aug 2024 18:22

**Instrument :**
BNA_F
**ClientSampleId :**
932-K1-WS-080224

Tgt Ion:152 Resp: 37230

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 151.4 | 126.0 | 189.0 |
| 115 | 65.8 | 51.7 | 77.5 |

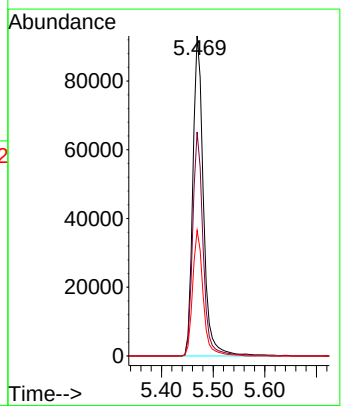


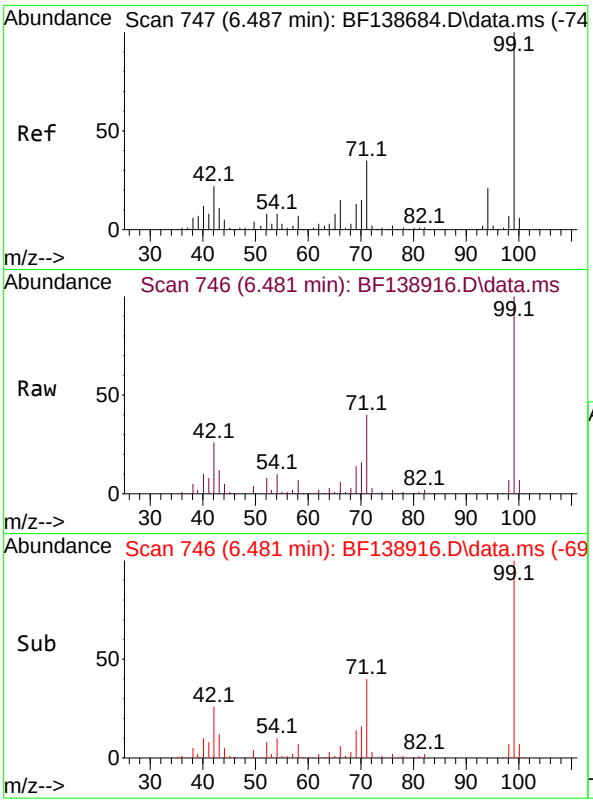




#5
2-Fluorophenol
Concen: 55.069 ng
RT: 5.469 min Scan# 574
Delta R.T. -0.000 min
Lab File: BF138916.D
Acq: 10 Aug 2024 18:22

Tgt Ion:112 Resp: 132816

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 70.0 | 54.2 | 81.4 |
| 63 | 39.2 | 28.7 | 43.1 |



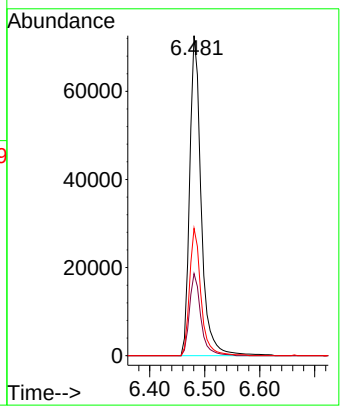


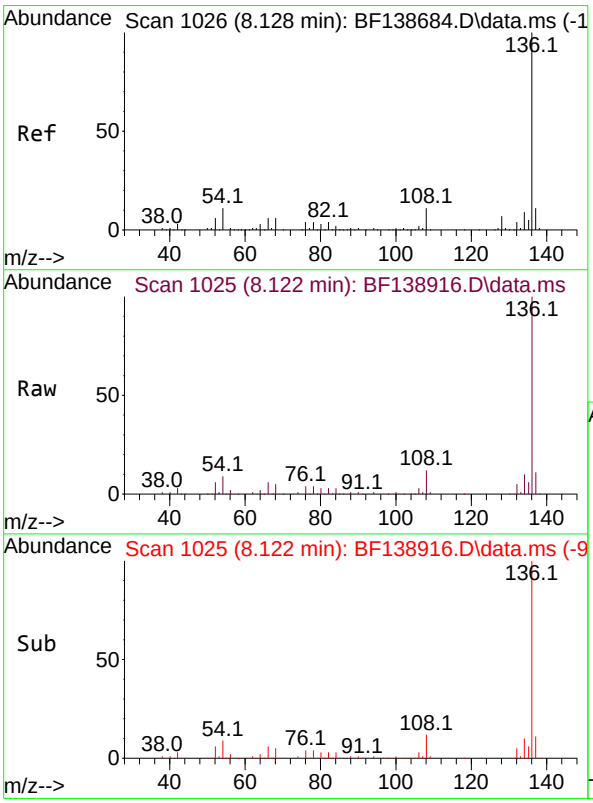

#7
Phenol-d6
Concen: 32.622 ng
RT: 6.481 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF138916.D
Acq: 10 Aug 2024 18:22

**Instrument :**
BNA_F
**ClientSampleId :**
932-K1-WS-080224

Tgt Ion: 99 Resp: 105633

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 25.6 | 17.4 | 26.0 |
| 71 | 39.8 | 28.1 | 42.1 |

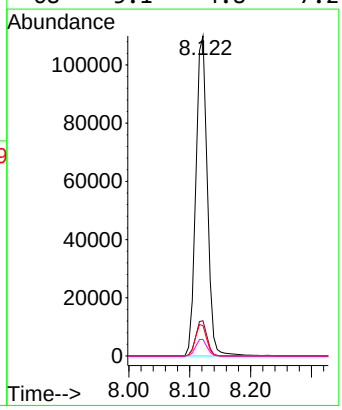


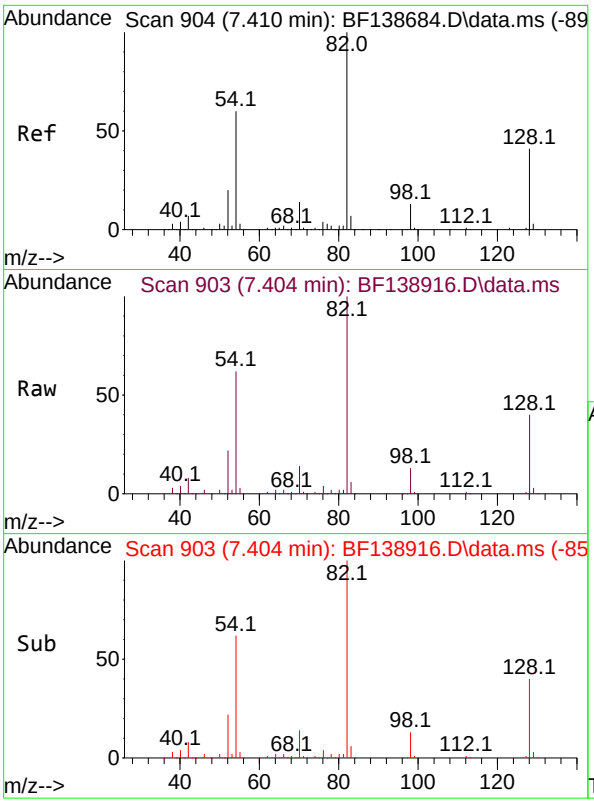




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.122 min Scan# 1025
Delta R.T. -0.006 min
Lab File: BF138916.D
Acq: 10 Aug 2024 18:22

Tgt Ion:136 Resp: 143891

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.0 | 8.9 | 13.3 |
| 54 | 9.5 | 8.6 | 12.8 |
| 68 | 5.1 | 4.8 | 7.2 |



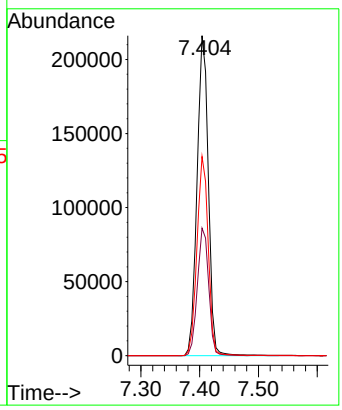


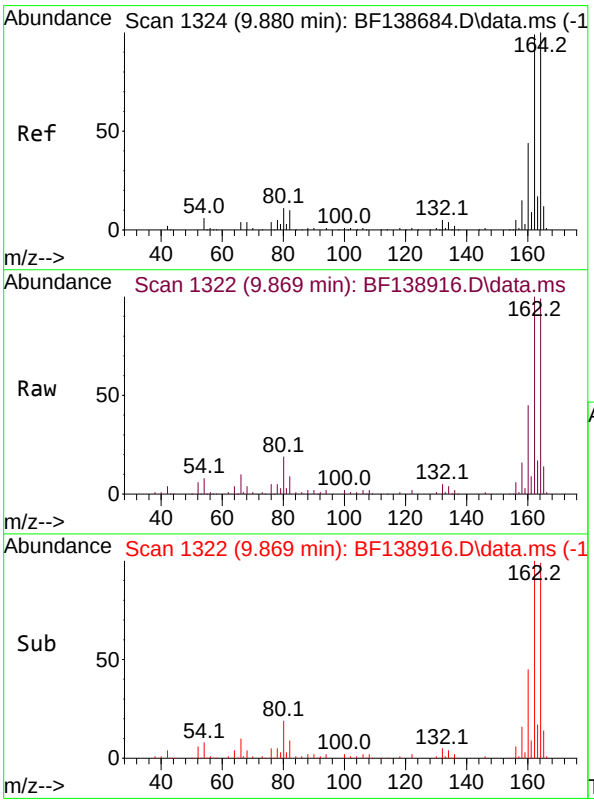

#23
Nitrobenzene-d5
Concen: 97.858 ng
RT: 7.404 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF138916.D
Acq: 10 Aug 2024 18:22

**Instrument :**
BNA_F
**ClientSampleId :**
932-K1-WS-080224

Tgt Ion: 82 Resp: 288003

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 39.8 | 32.8 | 49.2 |
| 54 | 62.3 | 48.3 | 72.5 |

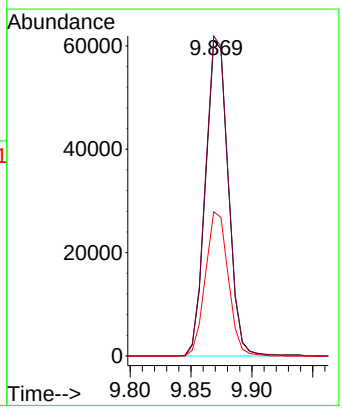


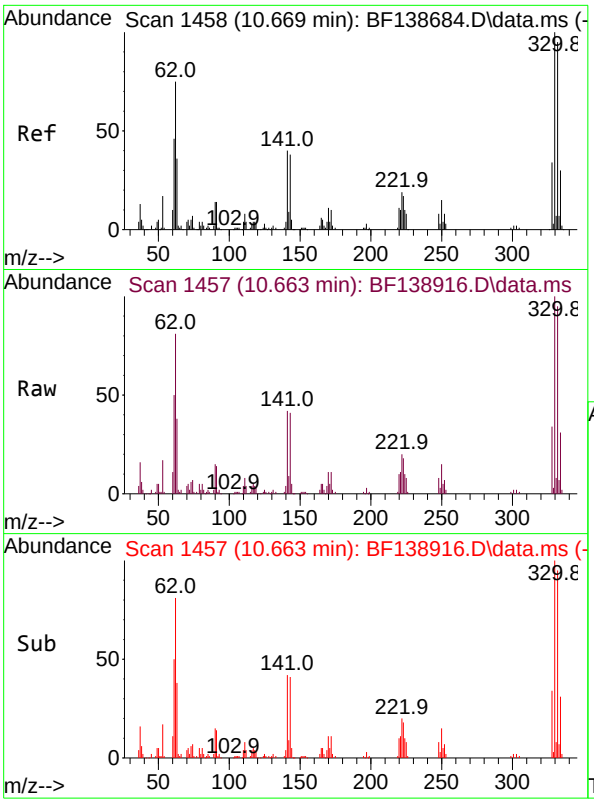




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.869 min Scan# 1322
Delta R.T. -0.011 min
Lab File: BF138916.D
Acq: 10 Aug 2024 18:22

Tgt Ion:164 Resp: 78846

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 101.3 | 79.4 | 119.0 |
| 160 | 45.6 | 35.1 | 52.7 |



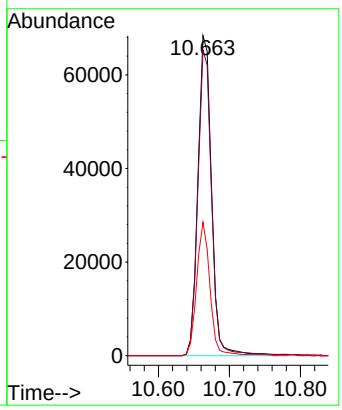


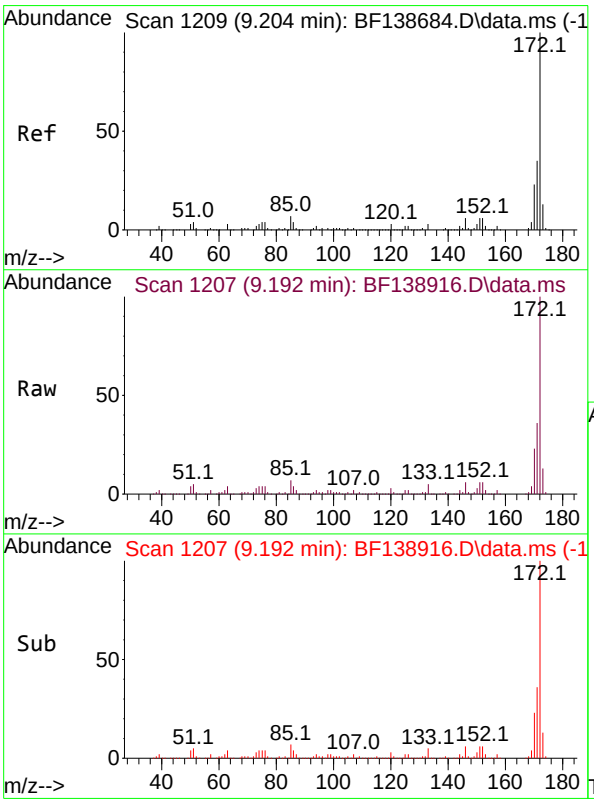

#42
2,4,6-Tribromophenol
Concen: 142.331 ng
RT: 10.663 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF138916.D
Acq: 10 Aug 2024 18:22

**Instrument :**
BNA_F
**ClientSampleId :**
932-K1-WS-080224

Tgt Ion:330 Resp: 91925

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.0 | 76.4 | 114.6 |
| 141 | 40.8 | 31.1 | 46.7 |

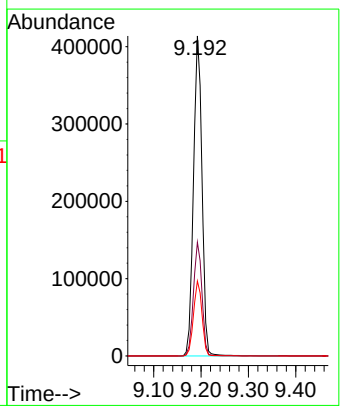


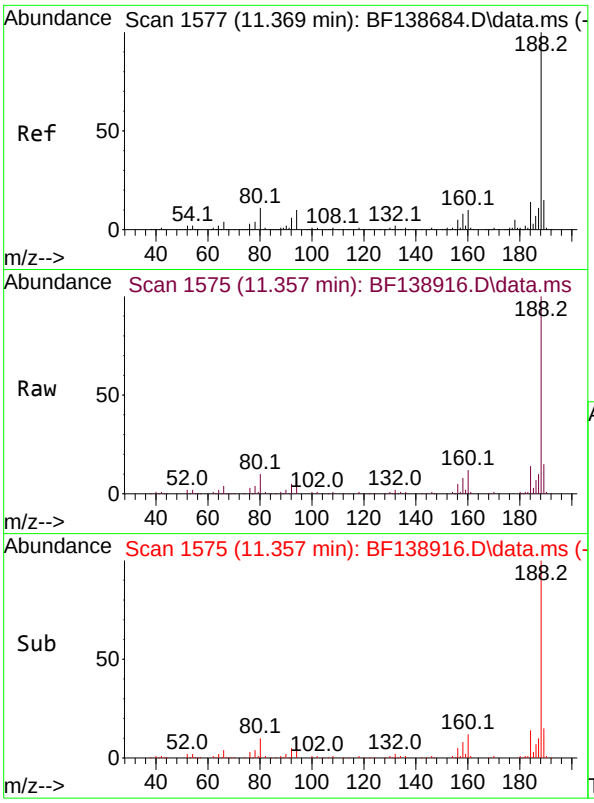




#45
2-Fluorobiphenyl
Concen: 98.928 ng
RT: 9.192 min Scan# 1207
Delta R.T. -0.012 min
Lab File: BF138916.D
Acq: 10 Aug 2024 18:22

Tgt Ion:172 Resp: 519141

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.6 | 28.3 | 42.5 |
| 170 | 23.4 | 18.8 | 28.2 |



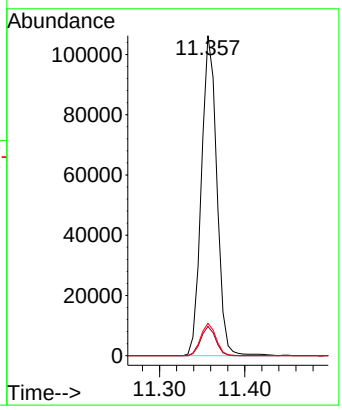


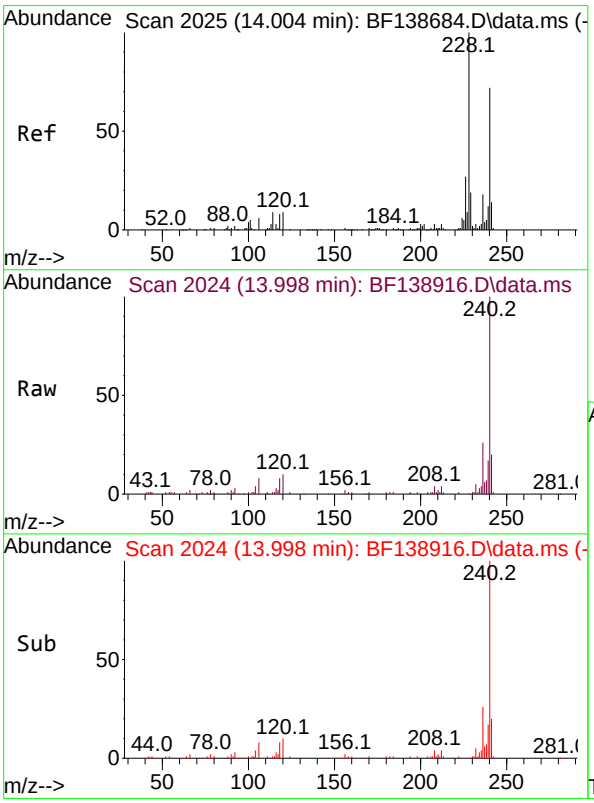

#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.357 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF138916.D
Acq: 10 Aug 2024 18:22

**Instrument :**
BNA_F
**ClientSampleId :**
932-K1-WS-080224

Tgt Ion:188 Resp: 133629

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 9.1 | 7.6 | 11.4 |
| 80 | 10.1 | 8.6 | 12.8 |

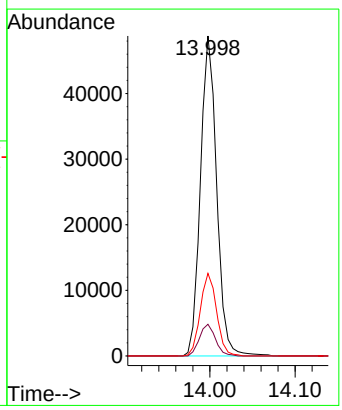


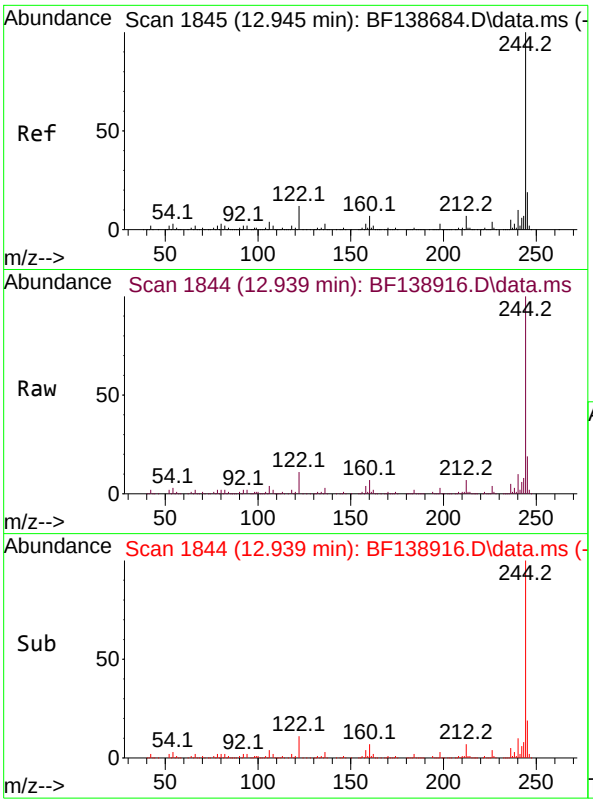




#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.998 min Scan# 2024
Delta R.T. -0.006 min
Lab File: BF138916.D
Acq: 10 Aug 2024 18:22

Tgt Ion:240 Resp: 64457

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 9.9 | 10.2 | 15.4# |
| 236 | 25.8 | 19.8 | 29.8 |



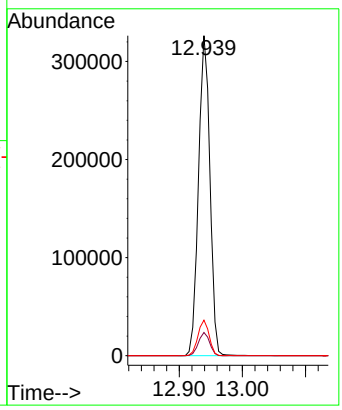


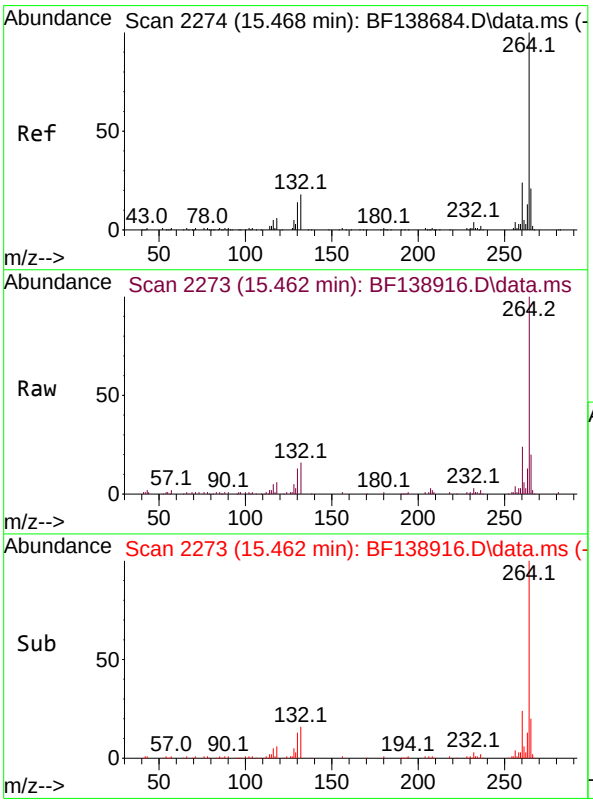

#79
Terphenyl-d14
Concen: 106.258 ng
RT: 12.939 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138916.D
Acq: 10 Aug 2024 18:22

**Instrument :**
BNA_F
**ClientSampleId :**
932-K1-WS-080224

Tgt Ion:244 Resp: 409077

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.2 | 5.4 | 8.2 |
| 122 | 11.1 | 9.6 | 14.4 |

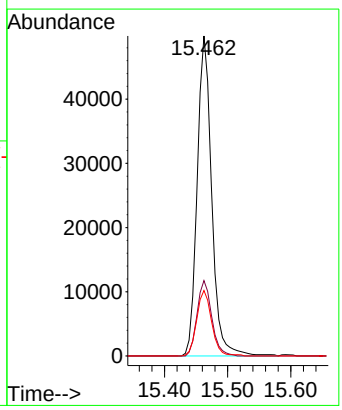



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.462 min Scan# 2273
Delta R.T. -0.006 min
Lab File: BF138916.D
Acq: 10 Aug 2024 18:22

Tgt Ion:264 Resp: 79602

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.5 | 19.0 | 28.6 |
| 265 | 20.5 | 17.0 | 25.6 |



# CALIBRATION SUMMARY

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF073024.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Jul 30 17:50:01 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BF138680.D 5 =BF138681.D 10 =BF138682.D 20 =BF138683.D 40 =BF138684.D 50 =BF138685.D 60 =BF138686.D 80 =BF1386
87.D

| | | Compound | 2.5 | 5 | 10 | 20 | 40 | 50 | 60 | 80 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | 1,4-Dichlorobenzen... | ----------ISTD---------- | | | | | | | | | |
| 2) | | 1,4-Dioxane | | 0.597 | 0.555 | 0.581 | 0.576 | 0.557 | 0.563 | 0.544 | 0.567 | 3.20 |
| 3) | | Pyridine | | 1.373 | 1.365 | 1.453 | 1.381 | 1.380 | 1.358 | 1.308 | 1.374 | 3.13 |
| 4) | | n-Nitrosodimet... | | 0.813 | 0.817 | 0.829 | 0.814 | 0.804 | 0.849 | 0.803 | 0.818 | 1.94 |
| 5) | S | 2-Fluorophenol | | 1.404 | 1.367 | 1.341 | 1.274 | 1.244 | 1.256 | 1.183 | 1.296 | 6.00 |
| 6) | | Aniline | | 1.656 | 1.626 | 1.704 | 1.532 | 1.487 | 1.480 | 1.375 | 1.551 | 7.47 |
| 7) | S | Phenol-d6 | | 1.938 | 1.816 | 1.828 | 1.681 | 1.654 | 1.684 | 1.575 | 1.740 | 7.19 |
| 8) | | 2-Chlorophenol | | 1.471 | 1.418 | 1.443 | 1.325 | 1.308 | 1.325 | 1.252 | 1.363 | 5.94 |
| 9) | | Benzaldehyde | | 1.230 | 1.119 | 1.099 | 0.904 | 0.862 | | | 1.043 | 14.84 |
| 10) | C | Phenol | | 2.012 | 1.946 | 1.913 | 1.775 | 1.739 | 1.771 | 1.664 | 1.832 | 6.89 |
| 11) | | bis(2-Chloroet... | | 1.494 | 1.476 | 1.434 | 1.363 | 1.348 | 1.416 | 1.335 | 1.409 | 4.46 |
| 12) | | 1,3-Dichlorobe... | | 1.687 | 1.609 | 1.608 | 1.475 | 1.445 | 1.468 | 1.389 | 1.526 | 7.12 |
| 13) | C | 1,4-Dichlorobe... | | 1.689 | 1.615 | 1.620 | 1.496 | 1.482 | 1.470 | 1.407 | 1.540 | 6.61 |
| 14) | | 1,2-Dichlorobe... | | 1.621 | 1.511 | 1.532 | 1.408 | 1.358 | 1.361 | 1.284 | 1.439 | 8.25 |
| 15) | | Benzyl Alcohol | | 1.326 | 1.287 | 1.334 | 1.218 | 1.213 | 1.246 | 1.151 | 1.254 | 5.27 |
| 16) | | 2,2'-oxybis(1-... | | 2.695 | 2.576 | 2.592 | 2.350 | 2.311 | 2.317 | 2.138 | 2.426 | 8.17 |
| 17) | | 2-Methylphenol | | 1.192 | 1.154 | 1.183 | 1.103 | 1.072 | 1.130 | 1.045 | 1.126 | 4.91 |
| 18) | | Hexachloroethane | | 0.619 | 0.614 | 0.598 | 0.568 | 0.554 | 0.564 | 0.540 | 0.580 | 5.31 |
| 19) | P | n-Nitroso-di-n... | 1.109 | 1.130 | 1.087 | 1.123 | 0.992 | 0.970 | 1.025 | 0.970 | 1.051 | 6.56 |
| 20) | | 3+4-Methylphenols | | 1.661 | 1.554 | 1.558 | 1.367 | 1.328 | 1.365 | 1.277 | 1.444 | 10.02 |
| 21) | I | Naphthalene-d8 | ----------ISTD---------- | | | | | | | | | |
| 22) | | Acetophenone | | 0.538 | 0.510 | 0.508 | 0.482 | 0.457 | 0.475 | 0.458 | 0.490 | 6.14 |
| 23) | S | Nitrobenzene-d5 | | 0.426 | 0.416 | 0.424 | 0.407 | 0.393 | 0.405 | 0.392 | 0.409 | 3.33 |
| 24) | | Nitrobenzene | | 0.431 | 0.423 | 0.433 | 0.417 | 0.400 | 0.409 | 0.401 | 0.416 | 3.31 |
| 25) | | Isophorone | | 0.735 | 0.710 | 0.735 | 0.681 | 0.655 | 0.697 | 0.677 | 0.699 | 4.31 |
| 26) | C | 2-Nitrophenol | | 0.169 | 0.176 | 0.188 | 0.184 | 0.175 | 0.184 | 0.179 | 0.179 | 3.75 |
| 27) | | 2,4-Dimethylph... | | 0.219 | 0.217 | 0.221 | 0.214 | 0.207 | 0.215 | 0.207 | 0.214 | 2.55 |
| 28) | | bis(2-Chloroet... | | 0.448 | 0.433 | 0.449 | 0.418 | 0.402 | 0.416 | 0.410 | 0.425 | 4.31 |
| 29) | C | 2,4-Dichloroph... | | 0.279 | 0.276 | 0.293 | 0.276 | 0.264 | 0.276 | 0.264 | 0.275 | 3.55 |
| 30) | | 1,2,4-Trichlor... | | 0.344 | 0.324 | 0.329 | 0.316 | 0.304 | 0.308 | 0.299 | 0.318 | 4.96 |
| 31) | | Naphthalene | | 1.124 | 1.102 | 1.110 | 1.044 | 1.000 | 1.014 | 0.976 | 1.053 | 5.63 |
| 32) | | Benzoic acid | | | 0.136 | 0.158 | 0.166 | 0.166 | 0.190 | 0.194 | 0.168 | 12.72 |
| 33) | | 4-Chloroaniline | | 0.354 | 0.363 | 0.369 | 0.346 | 0.337 | 0.358 | 0.348 | 0.353 | 3.09 |
| 34) | C | Hexachlorobuta... | | 0.205 | 0.197 | 0.200 | 0.190 | 0.187 | 0.187 | 0.181 | 0.192 | 4.39 |
| 35) | | Caprolactam | | 0.078 | 0.084 | 0.088 | 0.078 | 0.076 | 0.087 | 0.085 | 0.082 | 5.59 |
| 36) | C | 4-Chloro-3-met... | | 0.326 | 0.319 | 0.343 | 0.307 | 0.290 | 0.314 | 0.303 | 0.315 | 5.37 |
| 37) | | 2-Methylnaphth... | | 0.723 | 0.699 | 0.709 | 0.649 | 0.619 | 0.640 | 0.615 | 0.665 | 6.71 |
| 38) | | 1-Methylnaphth... | | 0.713 | 0.685 | 0.692 | 0.636 | 0.606 | 0.631 | 0.597 | 0.652 | 6.95 |

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF073024.M

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 39) | I | Acenaphthene-d10 | ----------ISTD---------- | | | | | | | | |
| 40) | | 1,2,4,5-Tetrac... | 0.606 | 0.560 | 0.581 | 0.550 | 0.542 | 0.534 | 0.515 | 0.556 | 5.48 |
| 41) | P | Hexachlorocycl... | | 0.064 | 0.101 | 0.127 | 0.138 | 0.146 | 0.147 | 0.120 | 27.08 |
| 42) | S | 2,4,6-Tribromo... | 0.168 | 0.164 | 0.176 | 0.159 | 0.156 | 0.166 | 0.158 | 0.164 | 4.19 |
| 43) | C | 2,4,6-Trichlor... | 0.338 | 0.338 | 0.353 | 0.336 | 0.330 | 0.341 | 0.334 | 0.339 | 2.10 |
| 44) | | 2,4,5-Trichlor... | 0.368 | 0.379 | 0.387 | 0.368 | 0.361 | 0.368 | 0.360 | 0.370 | 2.63 |
| 45) | S | 2-Fluorobiphenyl | 1.512 | 1.424 | 1.402 | 1.306 | 1.260 | 1.242 | 1.172 | 1.331 | 8.95 |
| 46) | | 1,1'-Biphenyl | 1.714 | 1.635 | 1.630 | 1.539 | 1.507 | 1.497 | 1.442 | 1.566 | 6.12 |
| 47) | | 2-Chloronaphth... | 1.263 | 1.206 | 1.213 | 1.151 | 1.119 | 1.114 | 1.089 | 1.165 | 5.46 |
| 48) | | 2-Nitroaniline | 0.394 | 0.403 | 0.414 | 0.389 | 0.380 | 0.395 | 0.390 | 0.395 | 2.74 |
| 49) | | Acenaphthylene | 1.796 | 1.744 | 1.743 | 1.637 | 1.573 | 1.587 | 1.486 | 1.652 | 6.79 |
| 50) | | Dimethylphthalate | 1.336 | 1.297 | 1.367 | 1.229 | 1.208 | 1.278 | 1.237 | 1.279 | 4.57 |
| 51) | | 2,6-Dinitrotol... | 0.286 | 0.288 | 0.304 | 0.288 | 0.277 | 0.300 | 0.277 | 0.289 | 3.57 |
| 52) | C | Acenaphthene | 1.217 | 1.173 | 1.169 | 1.082 | 1.049 | 1.069 | 1.016 | 1.111 | 6.77 |
| 53) | | 3-Nitroaniline | 0.308 | 0.300 | 0.317 | 0.288 | 0.286 | 0.303 | 0.286 | 0.298 | 4.09 |
| 54) | P | 2,4-Dinitrophenol | | 0.097 | 0.142 | 0.127 | 0.131 | 0.152 | 0.148 | 0.133 | 14.84 |
| 55) | | Dibenzofuran | 1.729 | 1.680 | 1.666 | 1.515 | 1.484 | 1.488 | 1.412 | 1.568 | 7.75 |
| 56) | P | 4-Nitrophenol | | 0.156 | 0.186 | 0.175 | 0.176 | 0.197 | 0.187 | 0.179 | 7.86 |
| 57) | | 2,4-Dinitrotol... | 0.377 | 0.376 | 0.402 | 0.362 | 0.342 | 0.371 | 0.348 | 0.368 | 5.41 |
| 58) | | Fluorene | 1.374 | 1.326 | 1.351 | 1.206 | 1.166 | 1.189 | 1.127 | 1.249 | 7.97 |
| 59) | | 2,3,4,6-Tetrac... | 0.270 | 0.279 | 0.297 | 0.274 | 0.280 | 0.300 | 0.282 | 0.283 | 3.99 |
| 60) | | Diethylphthalate | 1.268 | 1.259 | 1.321 | 1.155 | 1.113 | 1.216 | 1.156 | 1.213 | 6.16 |
| 61) | | 4-Chlorophenyl... | 0.662 | 0.664 | 0.662 | 0.589 | 0.580 | 0.591 | 0.551 | 0.614 | 7.67 |
| 62) | | 4-Nitroaniline | 0.284 | 0.292 | 0.313 | 0.272 | 0.265 | 0.292 | 0.267 | 0.284 | 6.04 |
| 63) | | Azobenzene | 1.427 | 1.391 | 1.450 | 1.300 | 1.259 | 1.329 | 1.258 | 1.345 | 5.85 |
| 64) | I | Phenanthrene-d10 | ----------ISTD---------- | | | | | | | | |
| 65) | | 4,6-Dinitro-2-... | | 0.107 | 0.123 | 0.125 | 0.123 | 0.128 | 0.127 | 0.122 | 6.44 |
| 66) | c | n-Nitrosodiphe... | 0.642 | 0.645 | 0.645 | 0.631 | 0.606 | 0.612 | 0.594 | 0.625 | 3.34 |
| 67) | | 4-Bromophenyl-... | 0.227 | 0.219 | 0.226 | 0.217 | 0.211 | 0.206 | 0.209 | 0.217 | 3.80 |
| 68) | | Hexachlorobenzene | 0.231 | 0.231 | 0.234 | 0.220 | 0.214 | 0.219 | 0.216 | 0.224 | 3.73 |
| 69) | | Atrazine | 0.171 | 0.172 | 0.176 | 0.162 | 0.153 | 0.153 | 0.141 | 0.161 | 7.84 |
| 70) | C | Pentachlorophenol | | 0.077 | 0.097 | 0.102 | 0.104 | 0.113 | 0.111 | 0.101 | 12.93 |
| 71) | | Phenanthrene | 1.112 | 1.109 | 1.087 | 1.021 | 0.970 | 0.965 | 0.944 | 1.030 | 7.04 |
| 72) | | Anthracene | 1.082 | 1.077 | 1.078 | 1.003 | 0.965 | 0.967 | 0.930 | 1.015 | 6.31 |
| 73) | | Carbazole | 0.970 | 0.938 | 0.940 | 0.870 | 0.810 | 0.825 | 0.774 | 0.875 | 8.62 |
| 74) | | Di-n-butylphth... | 0.991 | 0.990 | 1.040 | 0.991 | 0.944 | 0.992 | 0.941 | 0.984 | 3.41 |
| 75) | C | Fluoranthene | 1.068 | 1.045 | 1.039 | 0.965 | 0.899 | 0.886 | 0.827 | 0.961 | 9.67 |
| 76) | I | Chrysene-d12 | ----------ISTD---------- | | | | | | | | |
| 77) | | Benzidine | 0.491 | 0.482 | 0.484 | 0.535 | 0.470 | 0.408 | | 0.478 | 8.58 |
| 78) | | Pyrene | 1.978 | 1.958 | 2.140 | 1.750 | 1.694 | 1.929 | 1.733 | 1.883 | 8.64 |
| 79) | S | Terphenyl-d14 | 1.264 | 1.265 | 1.362 | 1.106 | 1.072 | 1.210 | 1.083 | 1.195 | 9.25 |
| 80) | | Butylbenzylpht... | 0.577 | 0.571 | 0.605 | 0.628 | 0.622 | 0.620 | 0.598 | 0.603 | 3.71 |
| 81) | | Benzo(a)anthra... | 1.401 | 1.438 | 1.410 | 1.395 | 1.351 | 1.351 | 1.295 | 1.377 | 3.49 |
| 82) | | 3,3'-Dichlorob... | 0.388 | 0.364 | 0.377 | 0.360 | 0.346 | 0.319 | 0.314 | 0.352 | 8.00 |
| 83) | | Chrysene | 1.342 | 1.228 | 1.260 | 1.222 | 1.203 | 1.229 | 1.213 | 1.243 | 3.82 |
| 84) | | Bis(2-ethylhex... | 0.876 | 0.838 | 0.861 | 0.948 | 0.945 | 0.847 | 0.866 | 0.883 | 5.12 |
| 85) | c | Di-n-octyl pht... | 1.637 | 1.524 | 1.614 | 1.744 | 1.742 | 1.570 | 1.605 | 1.634 | 5.06 |

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF073024.M

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 86) | I | Perylene-d12 | ----------ISTD---------- | | | | | | | |
| 87) | | Indeno(1,2,3-c... | 1.469 | 1.464 | 1.517 | 1.395 | 1.406 | 1.405 | 1.377 | 1.433 | 3.54 |
| 88) | | Benzo(b)fluora... | 1.287 | 1.361 | 1.287 | 1.229 | 1.181 | 1.135 | 1.200 | 1.240 | 6.19 |
| 89) | | Benzo(k)fluora... | 1.202 | 1.043 | 1.098 | 1.002 | 1.060 | 1.117 | 0.992 | 1.073 | 6.79 |
| 90) | C | Benzo(a)pyrene | 1.084 | 1.047 | 1.071 | 1.023 | 1.026 | 1.035 | 1.014 | 1.043 | 2.50 |
| 91) | | Dibenzo(a,h)an... | 1.226 | 1.231 | 1.253 | 1.134 | 1.140 | 1.147 | 1.106 | 1.177 | 4.94 |
| 92) | | Benzo(g,h,i)pe... | 1.261 | 1.234 | 1.289 | 1.199 | 1.196 | 1.198 | 1.169 | 1.221 | 3.46 |

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138680.D
Acq On : 30 Jul 2024 12:54
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC2.5

Quant Time: Jul 30 17:41:05 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:38:59 2024
Response via : Initial Calibration

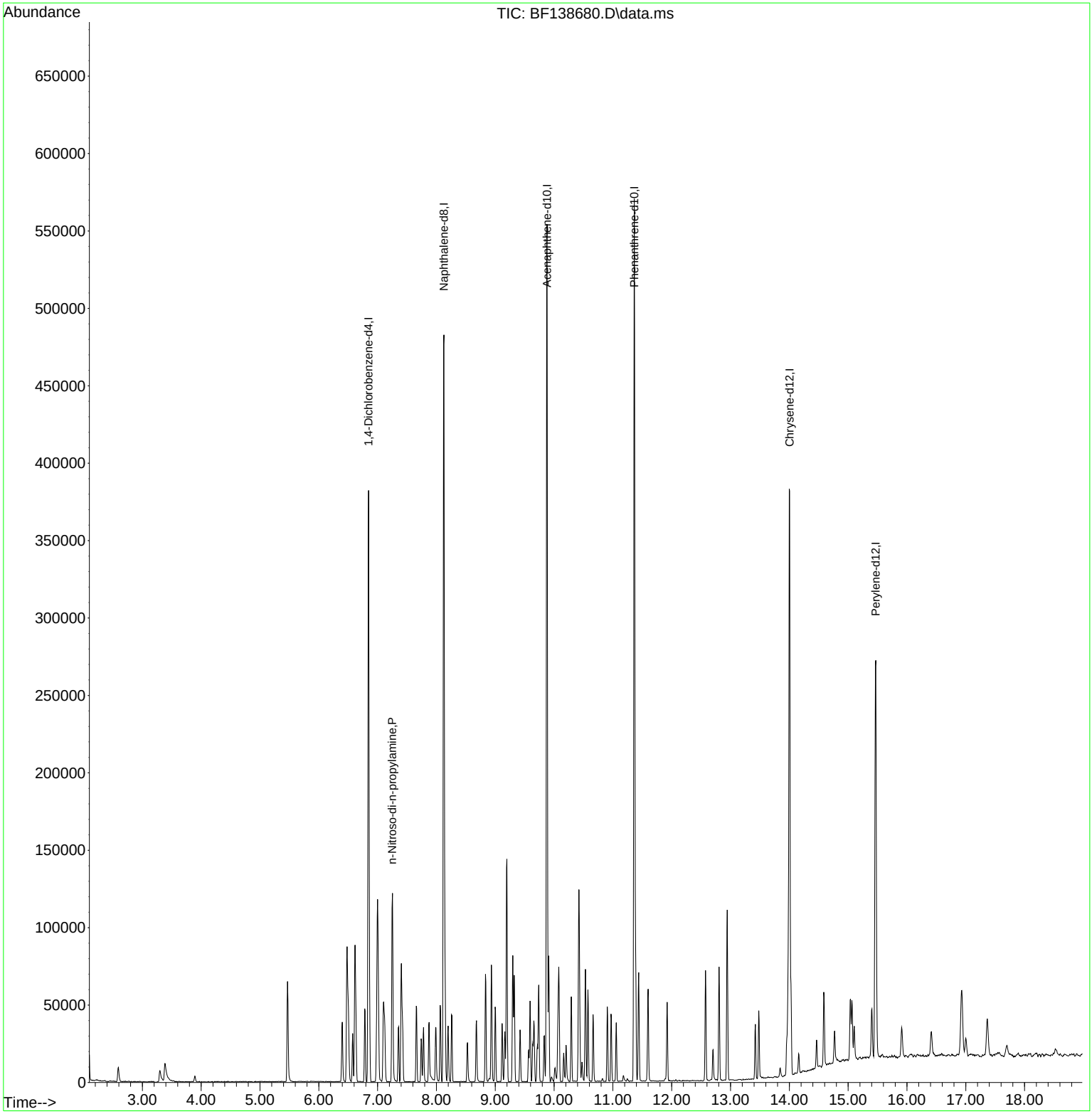
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.846 | 152 | 73346 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 8.128 | 136 | 293951 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 9.881 | 164 | 161886 | 20.000 | ng | 0.00 |
| 64) Phenanthrene-d10 | 11.363 | 188 | 284722 | 20.000 | ng | 0.00 |
| 76) Chrysene-d12 | 14.004 | 240 | 165574 | 20.000 | ng | 0.00 |
| 86) Perylene-d12 | 15.468 | 264 | 141601 | 20.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 0.000 | 112 | 0d | 0.000 | ng | |
| 7) Phenol-d6 | 0.000 | 99 | 0d | 0.000 | ng | |
| 23) Nitrobenzene-d5 | 0.000 | 82 | 0d | 0.000 | ng | |
| 42) 2,4,6-Tribromophenol | 0.000 | 330 | 0d | 0.000 | ng | |
| 45) 2-Fluorobiphenyl | 0.000 | 172 | 0d | 0.000 | ng | |
| 79) Terphenyl-d14 | 0.000 | 244 | 0d | 0.000 | ng | |
| Target Compounds | | | | | | Qvalue |
| 19) n-Nitroso-di-n-propyla... | 7.245 | 70 | 10170 | 2.640 | ng | 97 |

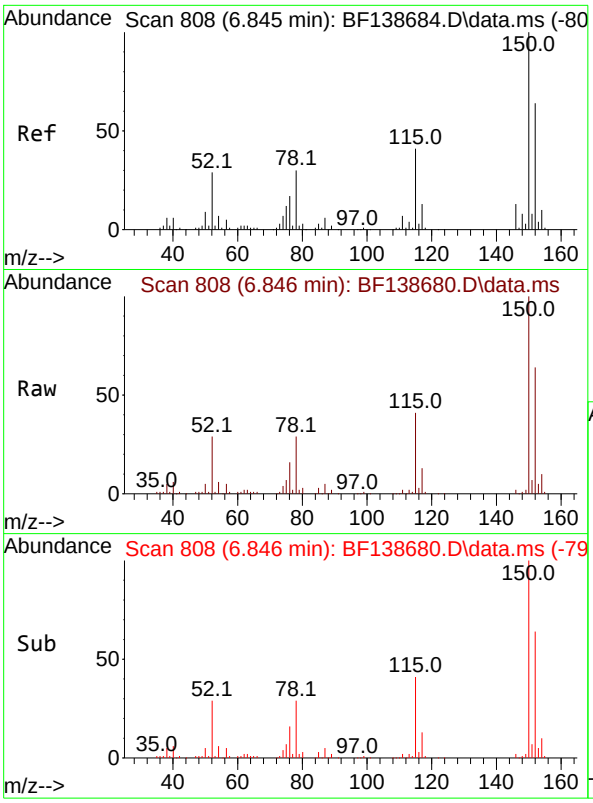
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138680.D
Acq On : 30 Jul 2024 12:54
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC2.5

Quant Time: Jul 30 17:41:05 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:38:59 2024
Response via : Initial Calibration



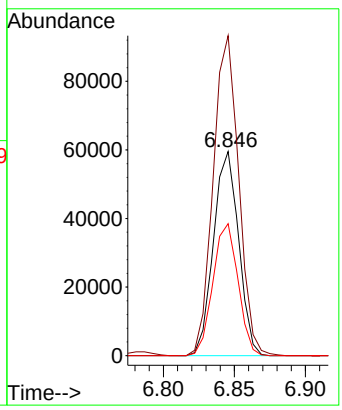


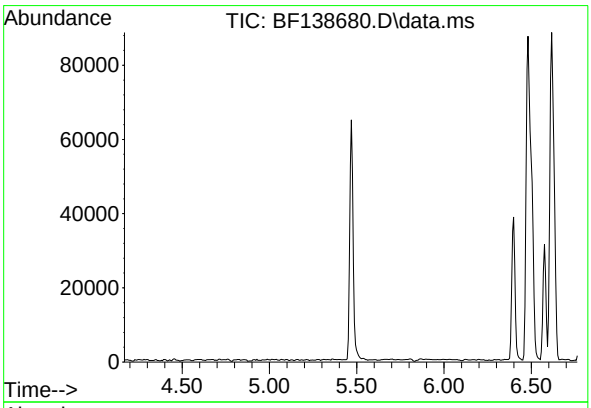

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.846 min Scan# 8
Delta R.T. 0.001 min
Lab File: BF138680.D
Acq: 30 Jul 2024 12:54

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC2.5

Tgt Ion:152 Resp: 73346

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 156.7 | 126.0 | 189.0 |
| 115 | 64.6 | 51.7 | 77.5 |



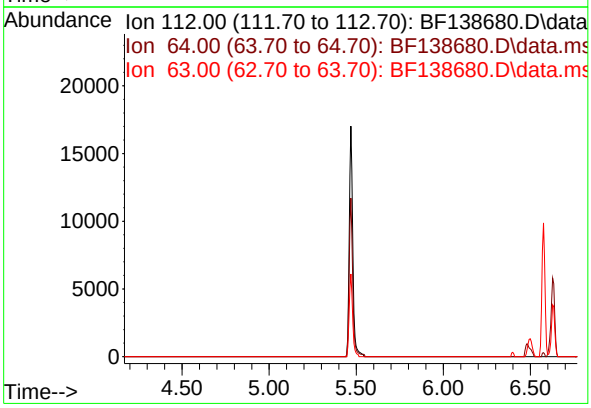



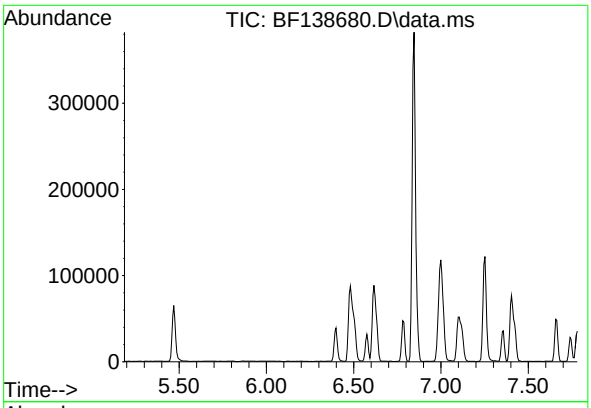

#5
2-Fluorophenol
Concen: 0.000 ng
Expected RT: 5.47 min

Lab File: BF138680.D
Acq: 30 Jul 2024 12:54

Tgt Ion: 112

| Sig | Exp Ratio |
|---|---|
| 112 | 100 |
| 64 | 67.8 |
| 63 | 35.9 |





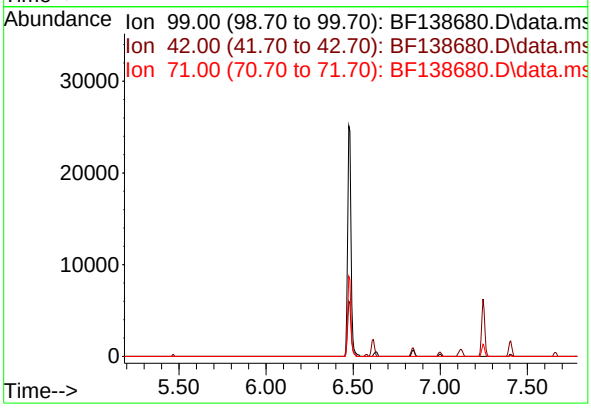

#7
Phenol-d6
Concen: 0.000 ng
Expected RT: 6.49 min

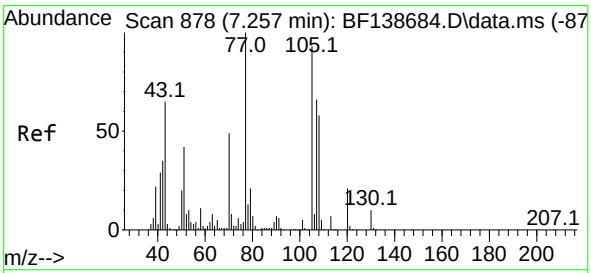
Lab File: BF138680.D
Acq: 30 Jul 2024 12:54

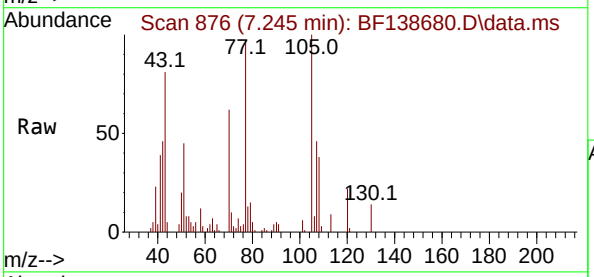
**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC2.5

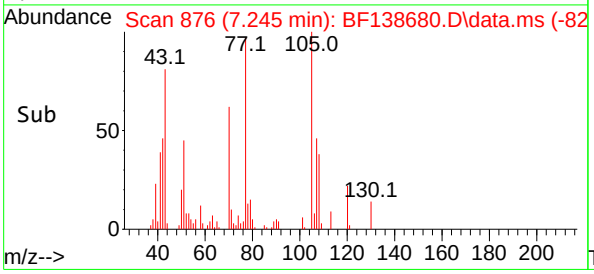
Tgt Ion: 99

| Sig | Exp Ratio |
|---|---|
| 99 | 100 |
| 42 | 21.7 |
| 71 | 35.1 |



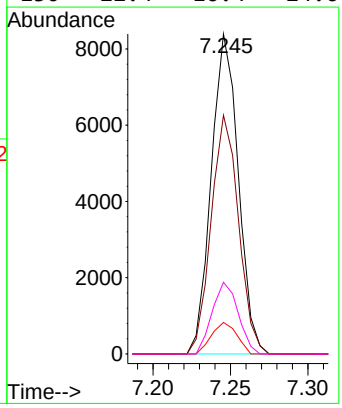



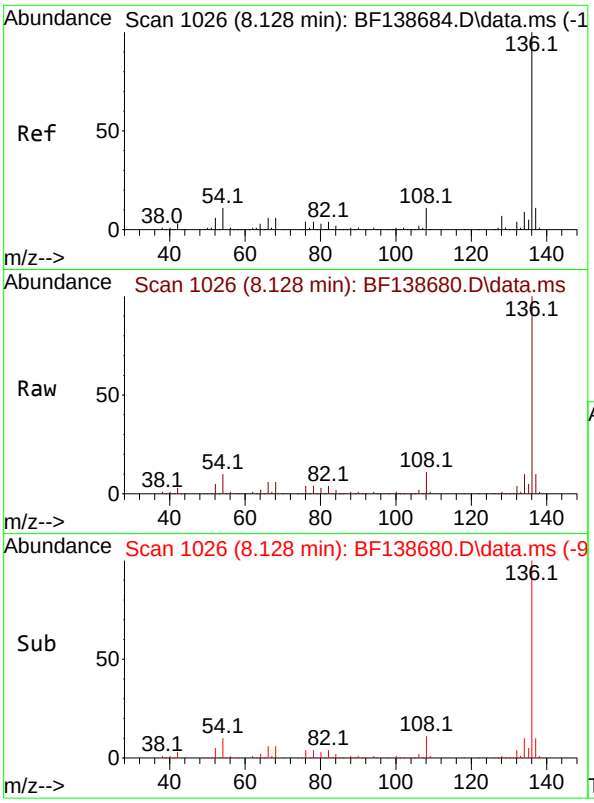




#19
n-Nitroso-di-n-propylamine
Concen: 2.640 ng
RT: 7.245 min Scan# 876
Delta R.T. -0.012 min
Lab File: BF138680.D
Acq: 30 Jul 2024 12:54

Tgt Ion: 70 Resp: 10170

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 42 | 74.6 | 57.4 | 86.0 |
| 101 | 9.8 | 7.5 | 11.3 |
| 130 | 22.4 | 16.4 | 24.6 |



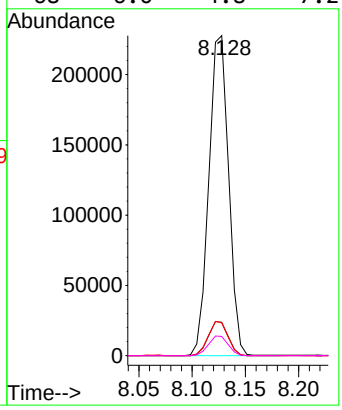


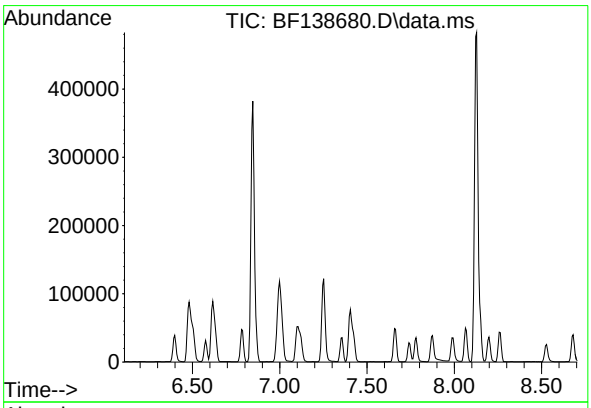

#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.128 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138680.D
Acq: 30 Jul 2024 12:54

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC2.5

Tgt Ion:136 Resp: 293951

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.5 | 8.9 | 13.3 |
| 54 | 10.2 | 8.6 | 12.8 |
| 68 | 6.0 | 4.8 | 7.2 |



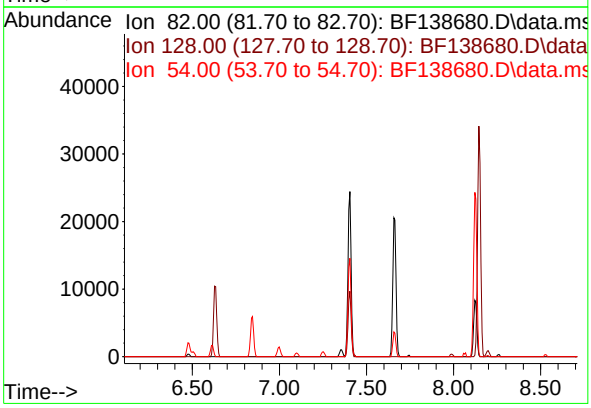



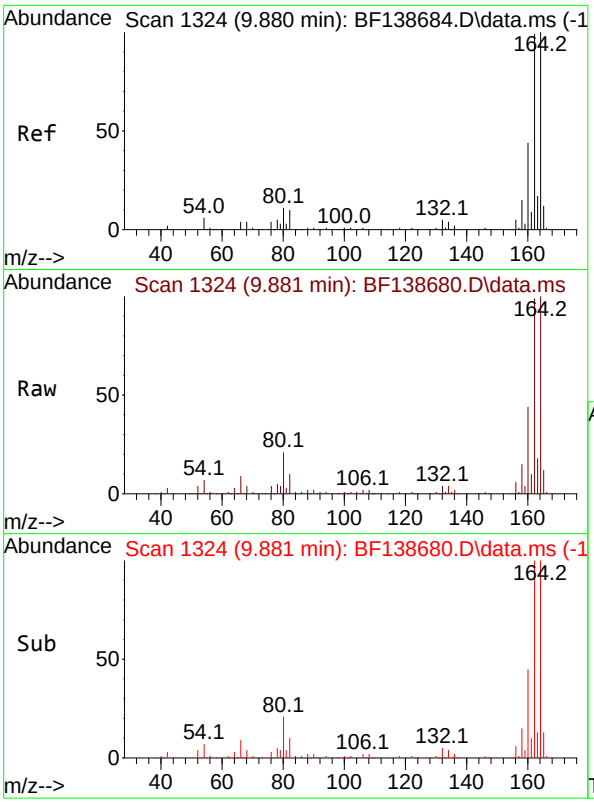

#23
Nitrobenzene-d5
Concen: 0.000 ng
Expected RT: 7.41 min

Lab File: BF138680.D
Acq: 30 Jul 2024 12:54

Tgt Ion: 82

| Sig | Exp Ratio |
|---|---|
| 82 | 100 |
| 128 | 41.0 |
| 54 | 60.4 |



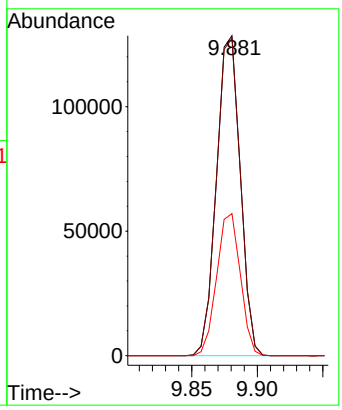


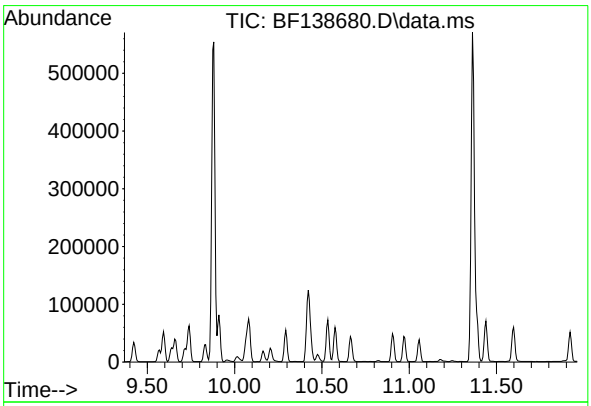

#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.881 min Scan# 1
Delta R.T. 0.001 min
Lab File: BF138680.D
Acq: 30 Jul 2024 12:54

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC2.5

Tgt Ion:164 Resp: 161886

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 99.2 | 79.4 | 119.0 |
| 160 | 44.4 | 35.1 | 52.7 |



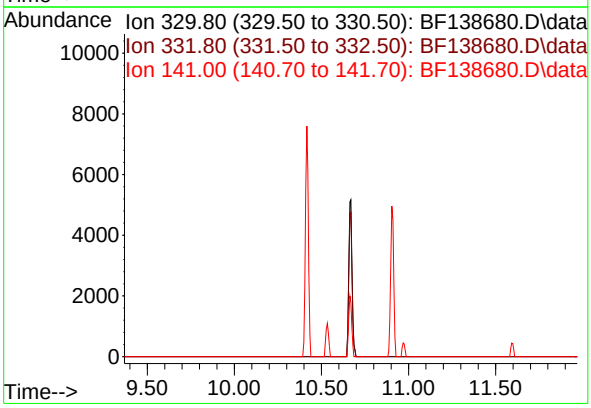



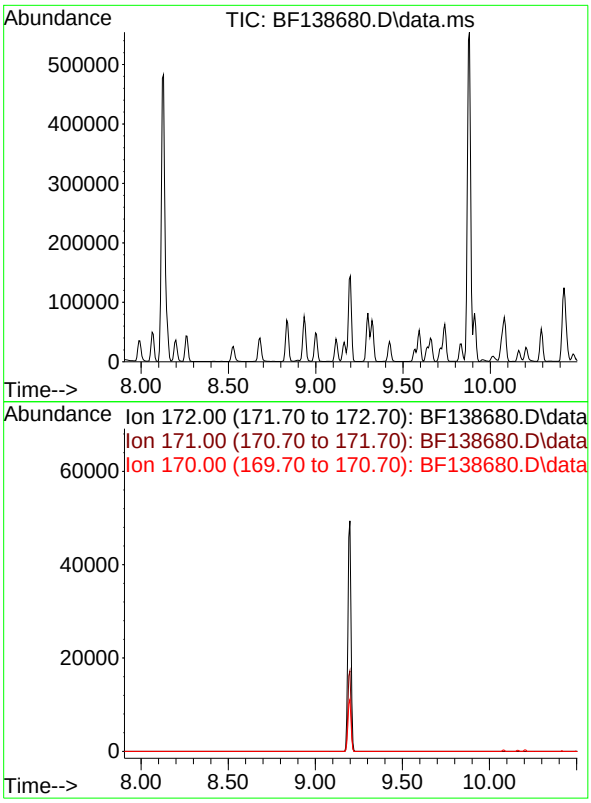

#42
2,4,6-Tribromophenol
Concen: 0.000 ng
Expected RT: 10.67 min

Lab File: BF138680.D
Acq: 30 Jul 2024 12:54

Tgt Ion: 330

| Sig | Exp Ratio |
|---|---|
| 330 | 100 |
| 332 | 95.5 |
| 141 | 38.9 |





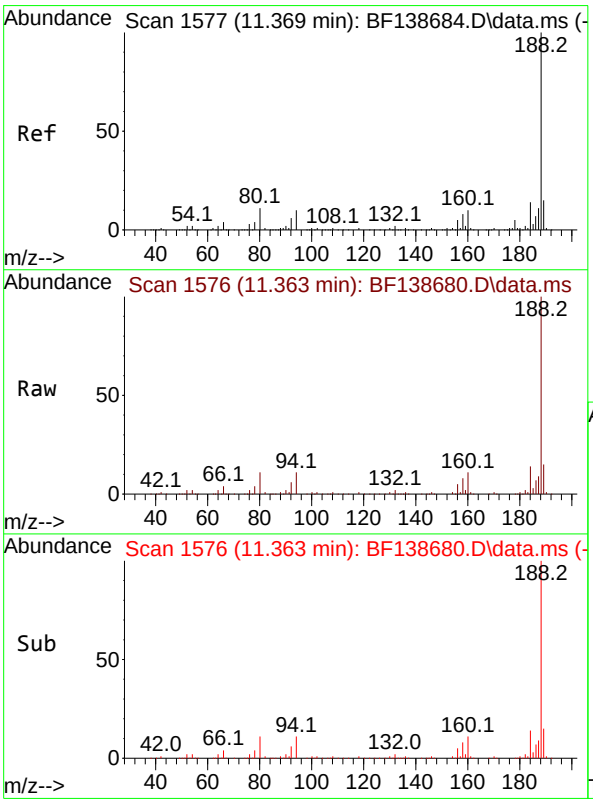

#45
2-Fluorobiphenyl
Concen: 0.000 ng
Expected RT: 9.20 min

Lab File: BF138680.D
Acq: 30 Jul 2024 12:54

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC2.5

Tgt Ion: 172

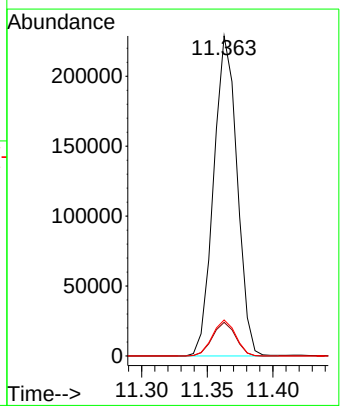
| Sig | Exp Ratio |
|---|---|
| 172 | 100 |
| 171 | 35.4 |
| 170 | 23.5 |

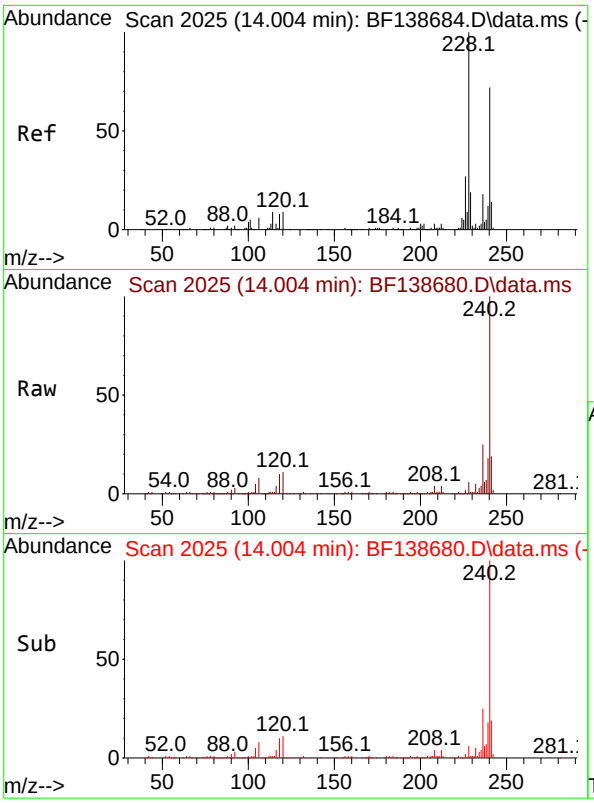



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.363 min Scan# 1576
Delta R.T. -0.006 min
Lab File: BF138680.D
Acq: 30 Jul 2024 12:54

Tgt Ion:188 Resp: 284722

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 10.5 | 7.6 | 11.4 |
| 80 | 11.3 | 8.6 | 12.8 |



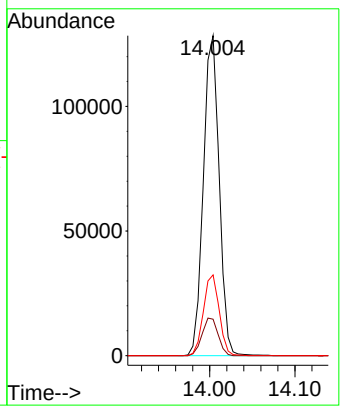


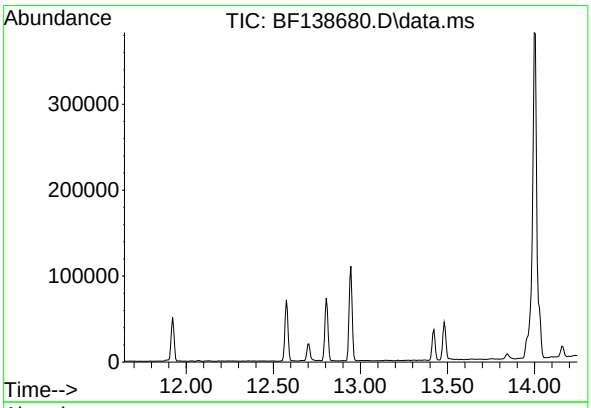

#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.004 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF138680.D
Acq: 30 Jul 2024 12:54

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC2.5

Tgt Ion:240 Resp: 165574

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 11.4 | 10.2 | 15.4 |
| 236 | 25.3 | 19.8 | 29.8 |



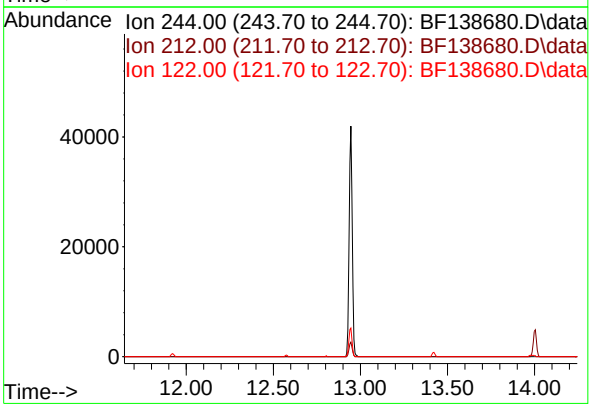



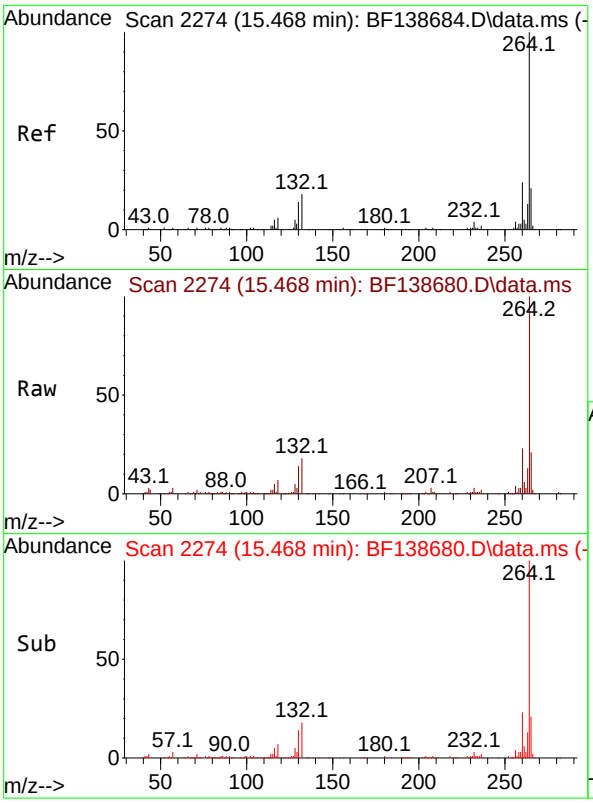

#79
Terphenyl-d14
Concen: 0.000 ng
Expected RT: 12.95 min

Lab File: BF138680.D
Acq: 30 Jul 2024 12:54

Tgt Ion: 244

| Sig | Exp Ratio |
|---|---|
| 244 | 100 |
| 212 | 6.8 |
| 122 | 12.0 |



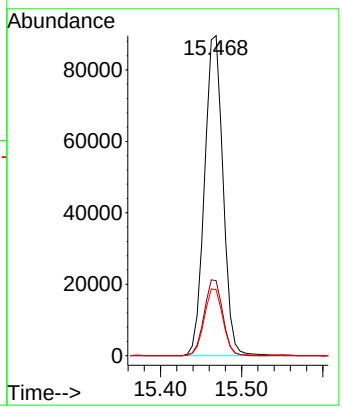



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.468 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF138680.D
Acq: 30 Jul 2024 12:54

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC2.5

Tgt Ion:264 Resp: 141601

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.4 | 19.0 | 28.6 |
| 265 | 20.6 | 17.0 | 25.6 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138681.D
Acq On : 30 Jul 2024 13:25
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

Quant Time: Jul 30 17:41:58 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:38:59 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.845 | 152 | 70137 | 20.000 | ng | | 0.00 |
| 21) Naphthalene-d8 | 8.128 | 136 | 290994 | 20.000 | ng | | 0.00 |
| 39) Acenaphthene-d10 | 9.881 | 164 | 157274 | 20.000 | ng | | 0.00 |
| 64) Phenanthrene-d10 | 11.363 | 188 | 264044 | 20.000 | ng | | 0.00 |
| 76) Chrysene-d12 | 14.004 | 240 | 144971 | 20.000 | ng | | 0.00 |
| 86) Perylene-d12 | 15.463 | 264 | 139476 | 20.000 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 5) 2-Fluorophenol | 5.469 | 112 | 49224 | 10.834 | ng | | 0.00 |
| 7) Phenol-d6 | 6.475 | 99 | 67958 | 11.140 | ng | | -0.01 |
| 23) Nitrobenzene-d5 | 7.404 | 82 | 61942 | 10.407 | ng | | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.669 | 330 | 13218 | 10.260 | ng | | 0.00 |
| 45) 2-Fluorobiphenyl | 9.198 | 172 | 118878 | 11.357 | ng | | 0.00 |
| 79) Terphenyl-d14 | 12.945 | 244 | 91621 | 10.581 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.593 | 88 | 10463 | 5.260 | ng | | 98 |
| 3) Pyridine | 3.369 | 79 | 24069 | 4.995 | ng | | 97 |
| 4) n-Nitrosodimethylamine | 3.287 | 42 | 14249 | 4.965 | ng | # | 96 |
| 6) Aniline | 6.504 | 93 | 29043 | 5.339 | ng | | 99 |
| 8) 2-Chlorophenol | 6.628 | 128 | 25801 | 5.397 | ng | | 94 |
| 9) Benzaldehyde | 6.398 | 77 | 21562 | 5.896 | ng | | 98 |
| 10) Phenol | 6.493 | 94 | 35277 | 5.492 | ng | | 98 |
| 11) bis(2-Chloroethyl)ether | 6.575 | 93 | 26204 | 5.302 | ng | | 98 |
| 12) 1,3-Dichlorobenzene | 6.787 | 146 | 29587 | 5.529 | ng | | 99 |
| 13) 1,4-Dichlorobenzene | 6.863 | 146 | 29620 | 5.485 | ng | | 97 |
| 14) 1,2-Dichlorobenzene | 7.010 | 146 | 28415 | 5.630 | ng | | 99 |
| 15) Benzyl Alcohol | 6.987 | 79 | 23244 | 5.287 | ng | | 98 |
| 16) 2,2'-oxybis(1-Chloropr... | 7.116 | 45 | 47247 | 5.555 | ng | | 96 |
| 17) 2-Methylphenol | 7.098 | 107 | 20893 | 5.293 | ng | | 96 |
| 18) Hexachloroethane | 7.351 | 117 | 10859 | 5.342 | ng | | 98 |
| 19) n-Nitroso-di-n-propyla... | 7.245 | 70 | 19805 | 5.375 | ng | | 96 |
| 20) 3+4-Methylphenols | 7.251 | 107 | 29122 | 5.750 | ng | | 97 |
| 22) Acetophenone | 7.251 | 105 | 39162 | 5.496 | ng | | 97 |
| 24) Nitrobenzene | 7.422 | 77 | 31388 | 5.183 | ng | | 99 |
| 25) Isophorone | 7.663 | 82 | 53456 | 5.260 | ng | | 100 |
| 26) 2-Nitrophenol | 7.739 | 139 | 12268 | 4.708 | ng | | 93 |
| 27) 2,4-Dimethylphenol | 7.781 | 122 | 15906 | 5.102 | ng | | 99 |
| 28) bis(2-Chloroethoxy)met... | 7.869 | 93 | 32570 | 5.263 | ng | | 99 |
| 29) 2,4-Dichlorophenol | 7.987 | 162 | 20263 | 5.058 | ng | | 98 |
| 30) 1,2,4-Trichlorobenzene | 8.063 | 180 | 25030 | 5.414 | ng | | 99 |
| 31) Naphthalene | 8.145 | 128 | 81757 | 5.338 | ng | | 100 |
| 33) 4-Chloroaniline | 8.198 | 127 | 25753 | 5.009 | ng | | 98 |
| 34) Hexachlorobutadiene | 8.263 | 225 | 14945 | 5.337 | ng | | 99 |
| 35) Caprolactam | 8.528 | 113 | 5694 | 4.763 | ng | | 98 |
| 36) 4-Chloro-3-methylphenol | 8.681 | 107 | 23684 | 5.173 | ng | | 94 |
| 37) 2-Methylnaphthalene | 8.834 | 142 | 52614 | 5.439 | ng | | 99 |
| 38) 1-Methylnaphthalene | 8.934 | 142 | 51855 | 5.470 | ng | | 99 |
| 40) 1,2,4,5-Tetrachloroben... | 8.998 | 216 | 23837 | 5.456 | ng | | 96 |
| 43) 2,4,6-Trichlorophenol | 9.116 | 196 | 13303 | 4.994 | ng | | 98 |
| 44) 2,4,5-Trichlorophenol | 9.163 | 196 | 14479 | 4.972 | ng | | 99 |
| 46) 1,1'-Biphenyl | 9.298 | 154 | 67394 | 5.471 | ng | | 98 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138681.D
Acq On : 30 Jul 2024 13:25
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

Quant Time: Jul 30 17:41:58 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:38:59 2024
Response via : Initial Calibration

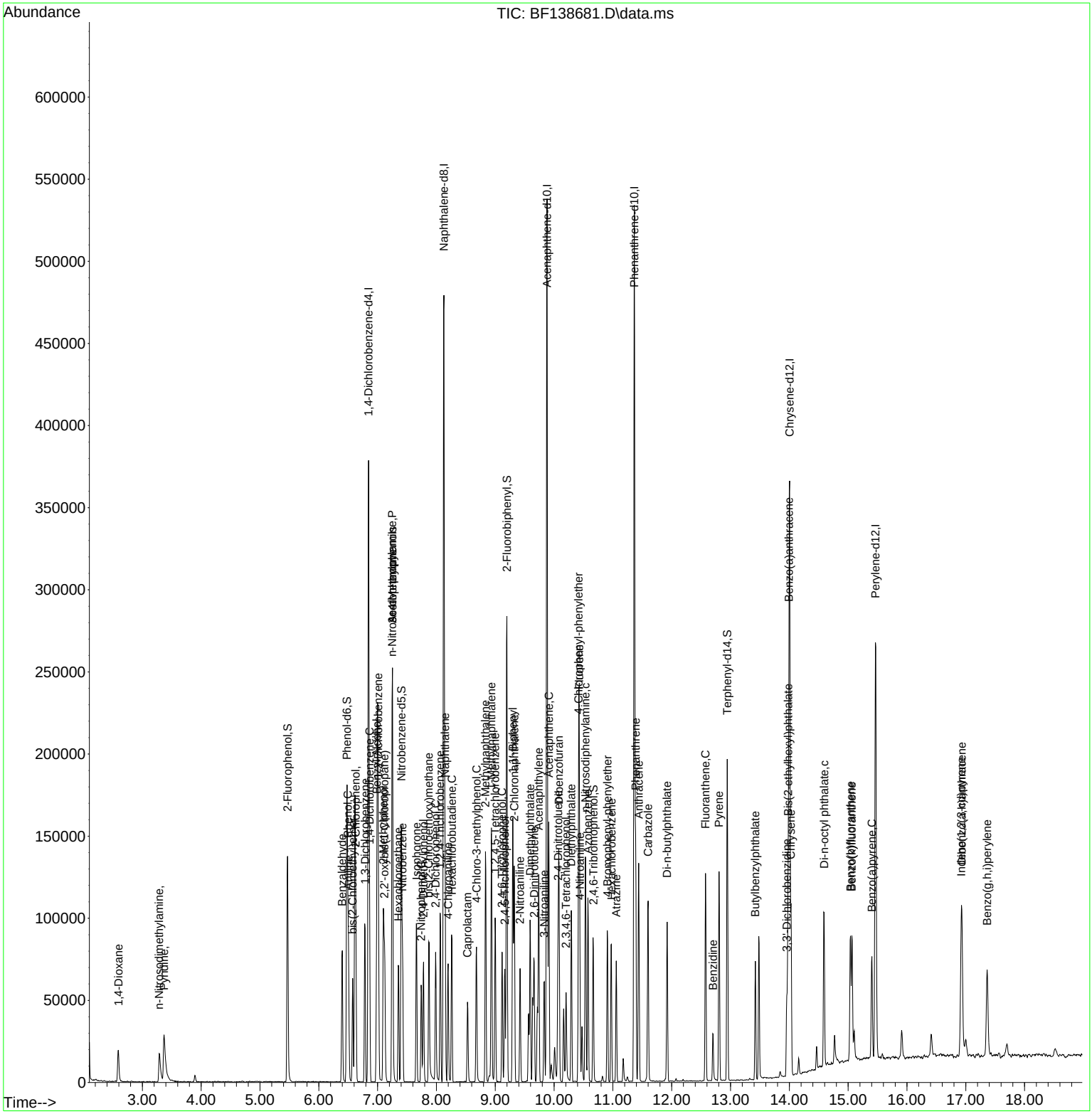
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 47) 2-Chloronaphthalene | 9.322 | 162 | 49660 | 5.421 | ng | | 100 |
| 48) 2-Nitroaniline | 9.422 | 65 | 15473 | 4.982 | ng | | 95 |
| 49) Acenaphthylene | 9.739 | 152 | 70622 | 5.435 | ng | | 99 |
| 50) Dimethylphthalate | 9.592 | 163 | 52521 | 5.223 | ng | | 99 |
| 51) 2,6-Dinitrotoluene | 9.663 | 165 | 11264 | 4.963 | ng | | 95 |
| 52) Acenaphthene | 9.910 | 154 | 47866 | 5.480 | ng | | 98 |
| 53) 3-Nitroaniline | 9.833 | 138 | 12123 | 5.167 | ng | | 99 |
| 55) Dibenzofuran | 10.081 | 168 | 67994 | 5.515 | ng | | 99 |
| 57) 2,4-Dinitrotoluene | 10.069 | 165 | 14816 | 5.117 | ng | # | 98 |
| 58) Fluorene | 10.428 | 166 | 54036 | 5.504 | ng | | 98 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.204 | 232 | 10608 | 4.765 | ng | # | 96 |
| 60) Diethylphthalate | 10.292 | 149 | 49851 | 5.228 | ng | | 98 |
| 61) 4-Chlorophenyl-phenyle... | 10.416 | 204 | 26020 | 5.389 | ng | | 99 |
| 62) 4-Nitroaniline | 10.439 | 138 | 11156 | 5.004 | ng | | 97 |
| 63) Azobenzene | 10.575 | 77 | 56096 | 5.304 | ng | | 99 |
| 66) n-Nitrosodiphenylamine | 10.533 | 169 | 42403 | 5.138 | ng | | 97 |
| 67) 4-Bromophenyl-phenylether | 10.910 | 248 | 14996 | 5.246 | ng | | 95 |
| 68) Hexachlorobenzene | 10.975 | 284 | 15270 | 5.173 | ng | | 98 |
| 69) Atrazine | 11.057 | 200 | 11256 | 5.286 | ng | | 99 |
| 71) Phenanthrene | 11.386 | 178 | 73432 | 5.401 | ng | | 99 |
| 72) Anthracene | 11.439 | 178 | 71415 | 5.332 | ng | | 98 |
| 73) Carbazole | 11.598 | 167 | 64031 | 5.541 | ng | | 98 |
| 74) Di-n-butylphthalate | 11.922 | 149 | 65388 | 5.034 | ng | | 100 |
| 75) Fluoranthene | 12.574 | 202 | 70499 | 5.554 | ng | | 98 |
| 77) Benzidine | 12.704 | 184 | 17784 | 5.129 | ng | | 99 |
| 78) Pyrene | 12.804 | 202 | 71695 | 5.253 | ng | | 100 |
| 80) Butylbenzylphthalate | 13.421 | 149 | 20901 | 4.782 | ng | | 97 |
| 81) Benzo(a)anthracene | 13.992 | 228 | 50774 | 5.086 | ng | | 99 |
| 82) 3,3'-Dichlorobenzidine | 13.957 | 252 | 14073 | 5.509 | ng | | 98 |
| 83) Chrysene | 14.027 | 228 | 48647 | 5.401 | ng | | 98 |
| 84) Bis(2-ethylhexyl)phtha... | 13.980 | 149 | 31754 | 4.961 | ng | | 99 |
| 85) Di-n-octyl phthalate | 14.592 | 149 | 59336 | 5.011 | ng | | 99 |
| 87) Indeno(1,2,3-cd)pyrene | 16.921 | 276 | 51232 | 5.126 | ng | | 100 |
| 88) Benzo(b)fluoranthene | 15.039 | 252 | 44859 | 5.188 | ng | | 99 |
| 89) Benzo(k)fluoranthene | 15.063 | 252 | 41920 | 5.600 | ng | | 99 |
| 90) Benzo(a)pyrene | 15.404 | 252 | 37810 | 5.199 | ng | | 99 |
| 91) Dibenzo(a,h)anthracene | 16.933 | 278 | 42736 | 5.209 | ng | | 98 |
| 92) Benzo(g,h,i)perylene | 17.362 | 276 | 43978 | 5.165 | ng | | 99 |

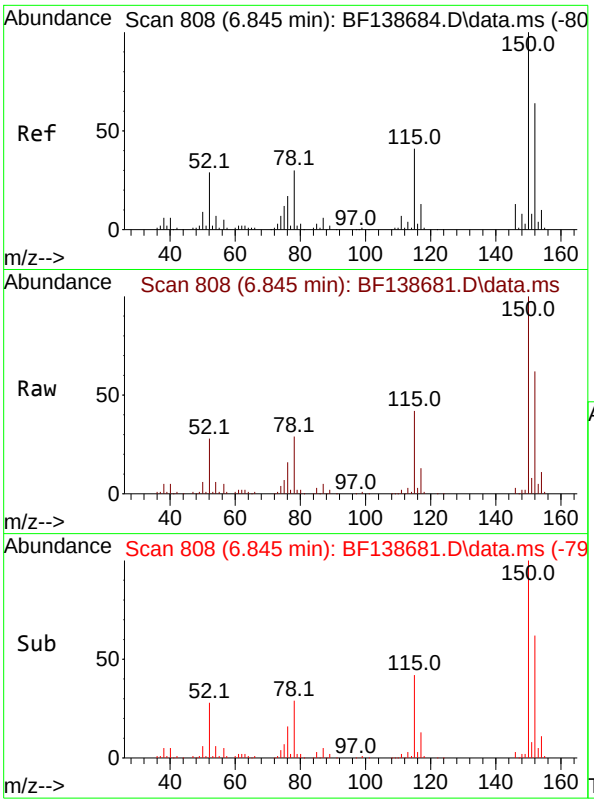
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138681.D
Acq On : 30 Jul 2024 13:25
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

Quant Time: Jul 30 17:41:58 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:38:59 2024
Response via : Initial Calibration



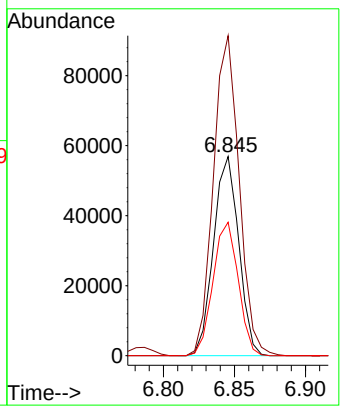


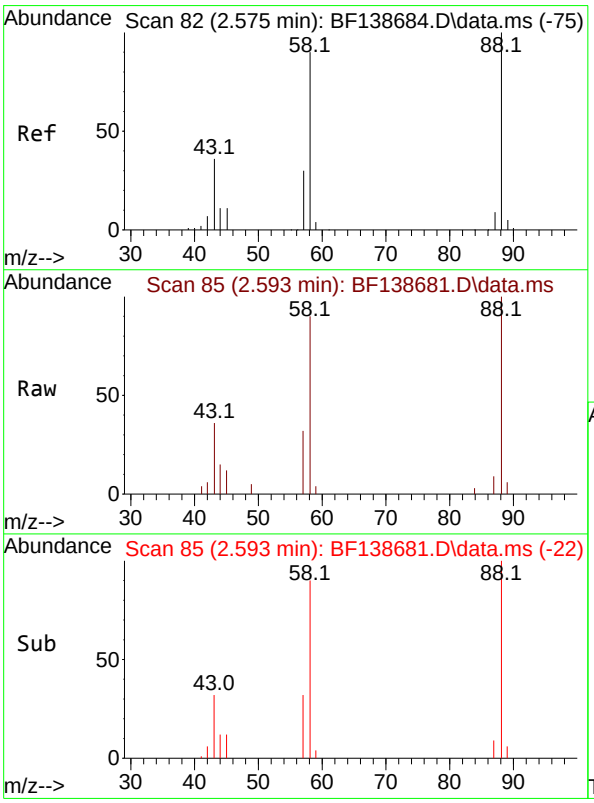

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.845 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

Tgt Ion:152 Resp: 70137

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 160.6 | 126.0 | 189.0 |
| 115 | 67.0 | 51.7 | 77.5 |

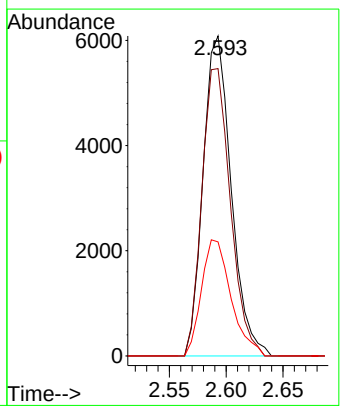


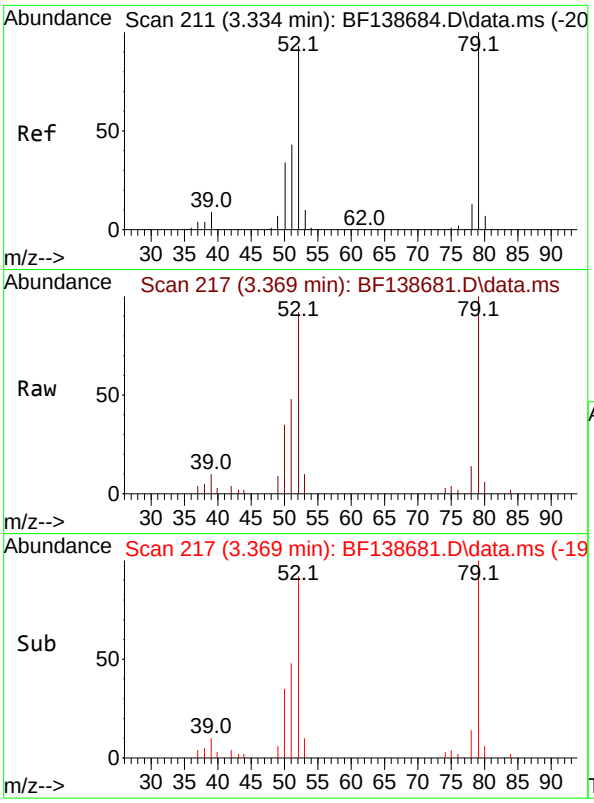




#2
1,4-Dioxane
Concen: 5.260 ng
RT: 2.593 min Scan# 85
Delta R.T. 0.018 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion: 88 Resp: 10463

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 90.9 | 71.6 | 107.4 |
| 43 | 38.2 | 28.7 | 43.1 |



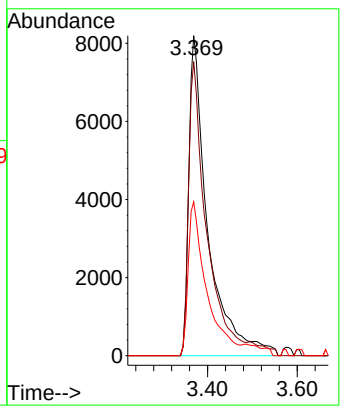


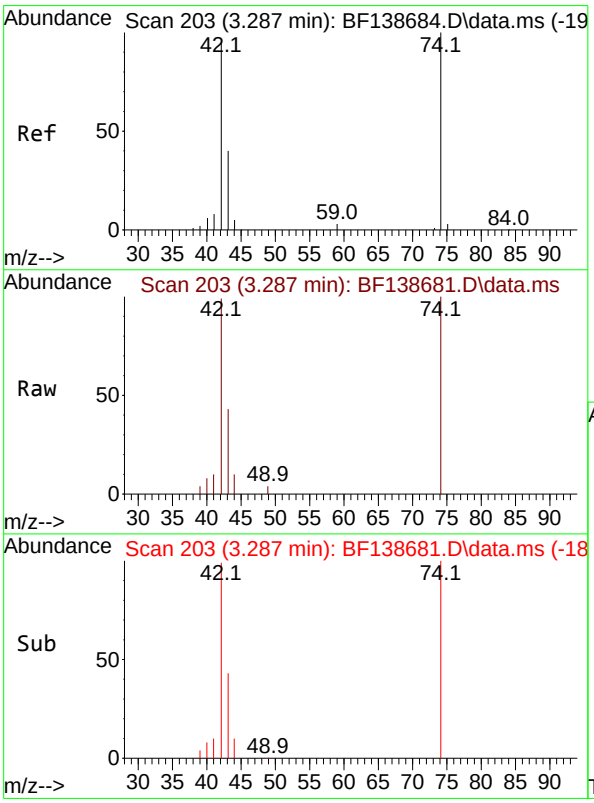

#3
Pyridine
Concen: 4.995 ng
RT: 3.369 min Scan# 21
Delta R.T. 0.035 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

Tgt Ion: 79 Resp: 24069

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 91.9 | 74.7 | 112.1 |
| 51 | 48.1 | 34.6 | 51.8 |

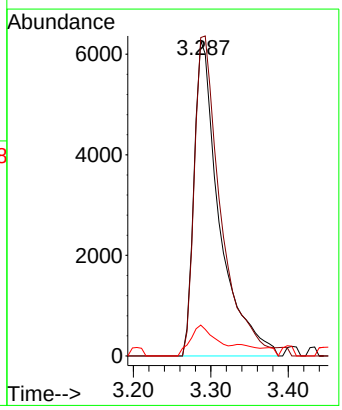


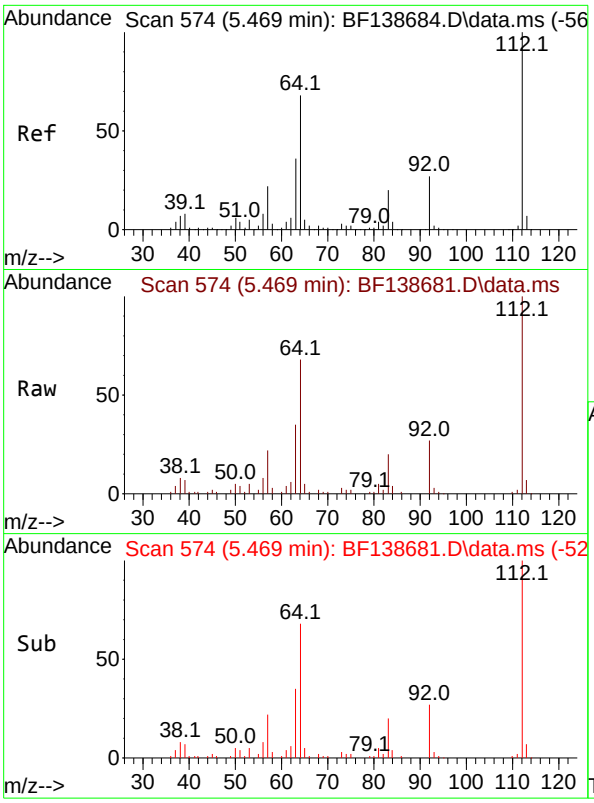




#4
n-Nitrosodimethylamine
Concen: 4.965 ng
RT: 3.287 min Scan# 203
Delta R.T. 0.000 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion: 42 Resp: 14249

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 101.1 | 84.2 | 126.4 |
| 44 | 9.8 | 4.9 | 7.3# |



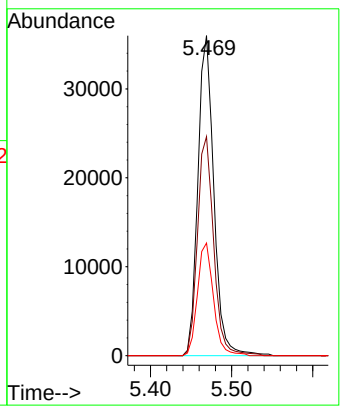


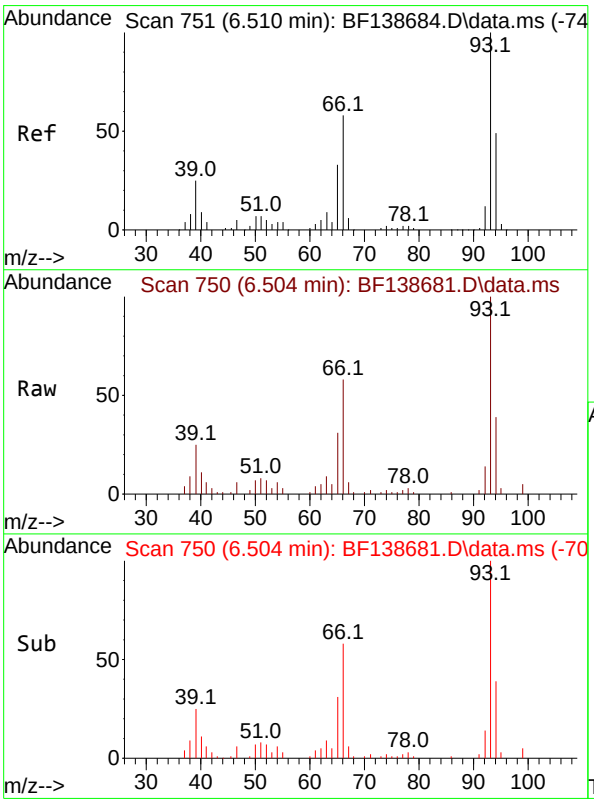

#5
2-Fluorophenol
Concen: 10.834 ng
RT: 5.469 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

Tgt Ion:112 Resp: 49224

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 68.5 | 54.2 | 81.4 |
| 63 | 35.2 | 28.7 | 43.1 |

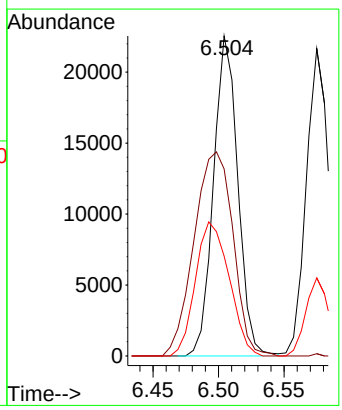


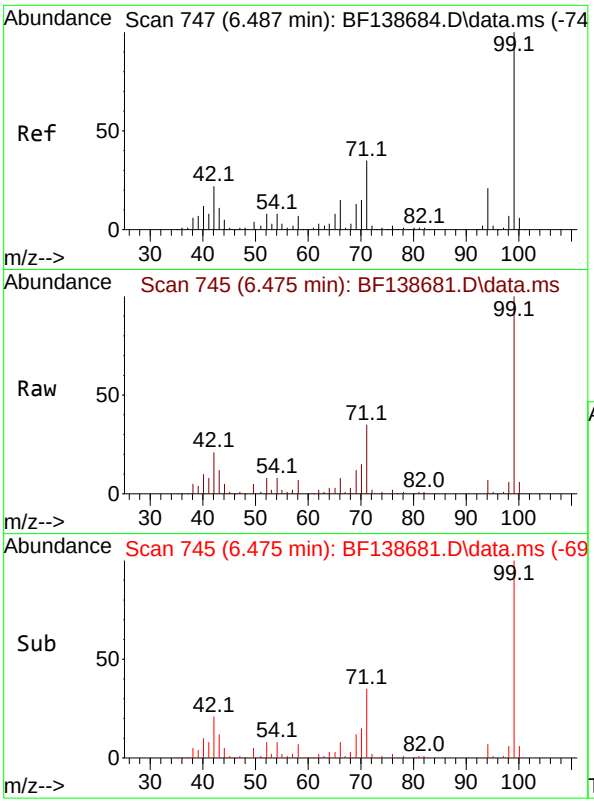




#6
Aniline
Concen: 5.339 ng
RT: 6.504 min Scan# 750
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion: 93 Resp: 29043

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 66 | 58.4 | 46.9 | 70.3 |
| 65 | 31.2 | 26.5 | 39.7 |



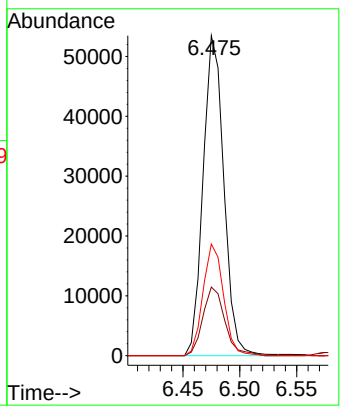


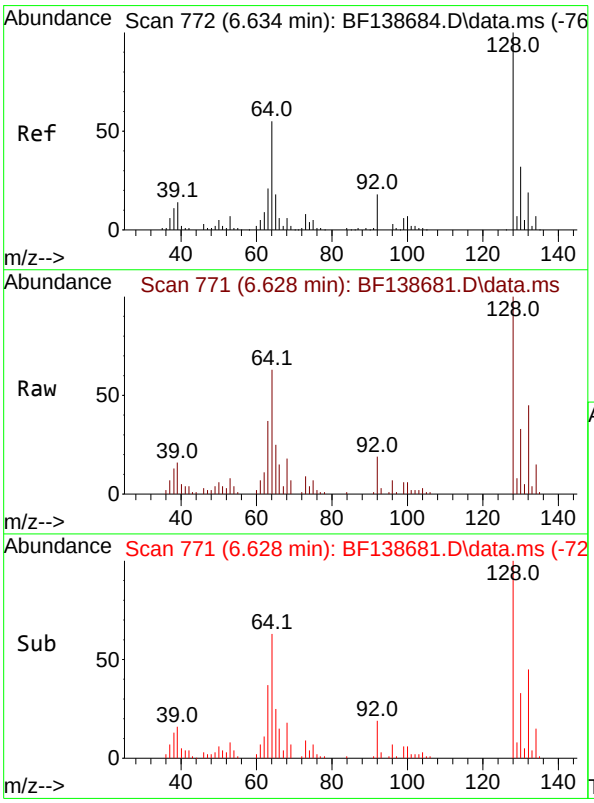

#7
Phenol-d6
Concen: 11.140 ng
RT: 6.475 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

Tgt Ion: 99 Resp: 67958

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 21.4 | 17.4 | 26.0 |
| 71 | 34.9 | 28.1 | 42.1 |

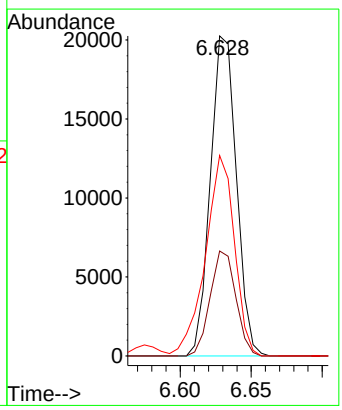


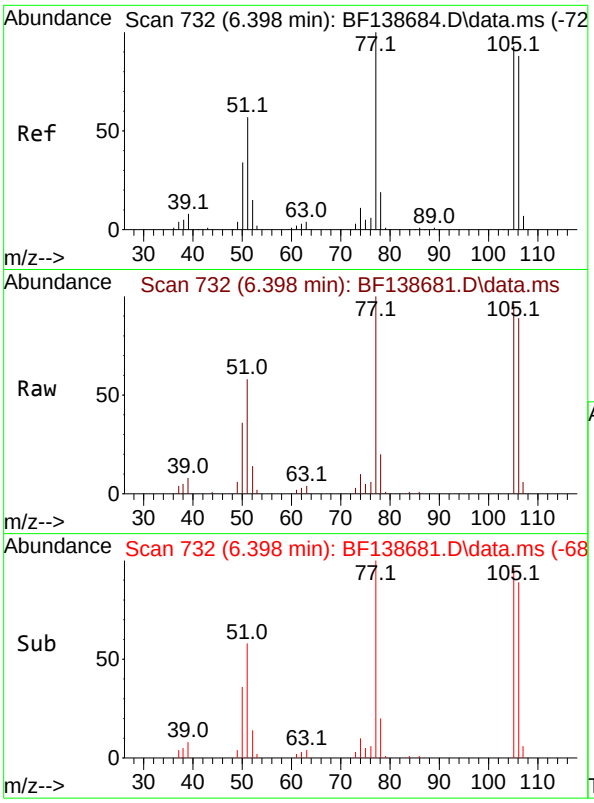




#8
2-Chlorophenol
Concen: 5.397 ng
RT: 6.628 min Scan# 771
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:128 Resp: 25801

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 130 | 32.8 | 12.0 | 52.0 |
| 64 | 62.7 | 36.3 | 76.3 |



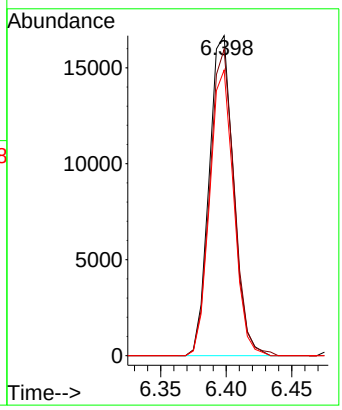


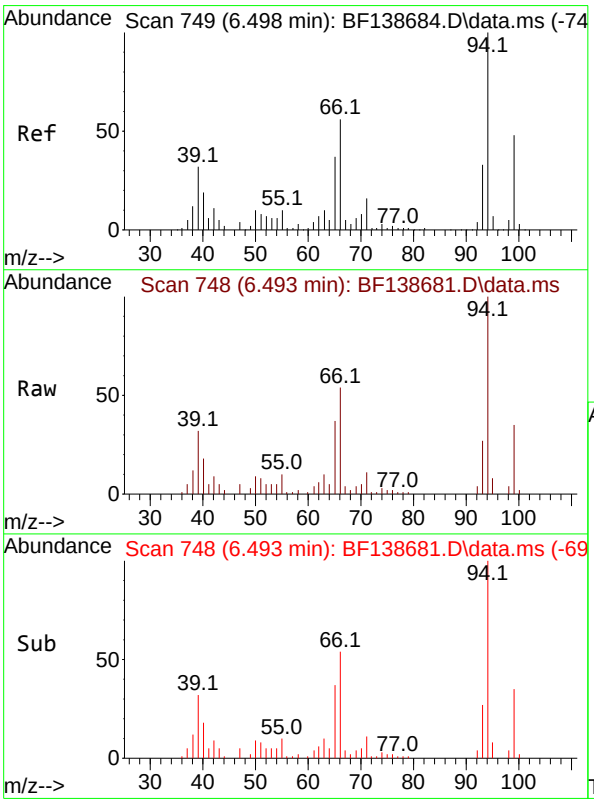

#9
Benzaldehyde
Concen: 5.896 ng
RT: 6.398 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

Tgt Ion: 77 Resp: 21562

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 105 | 95.7 | 72.9 | 112.9 |
| 106 | 89.3 | 68.4 | 108.4 |

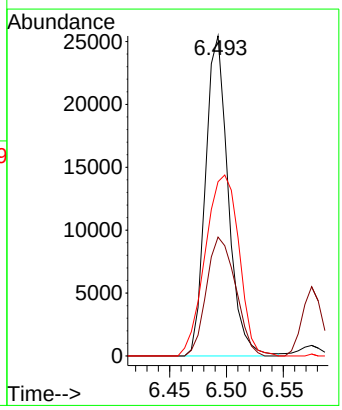


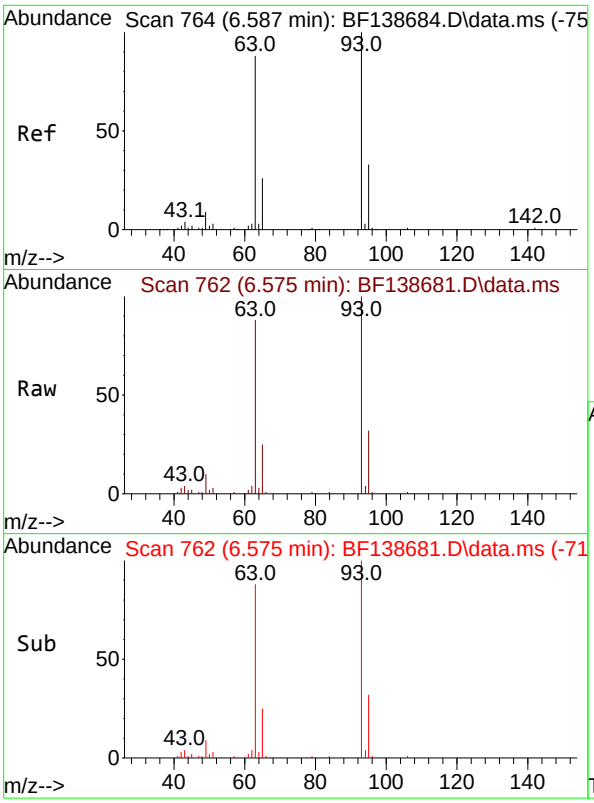




#10
Phenol
Concen: 5.492 ng
RT: 6.493 min Scan# 748
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion: 94 Resp: 35277

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 37.2 | 16.9 | 56.9 |
| 66 | 54.5 | 36.5 | 76.5 |



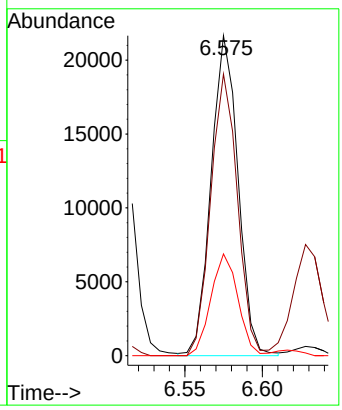


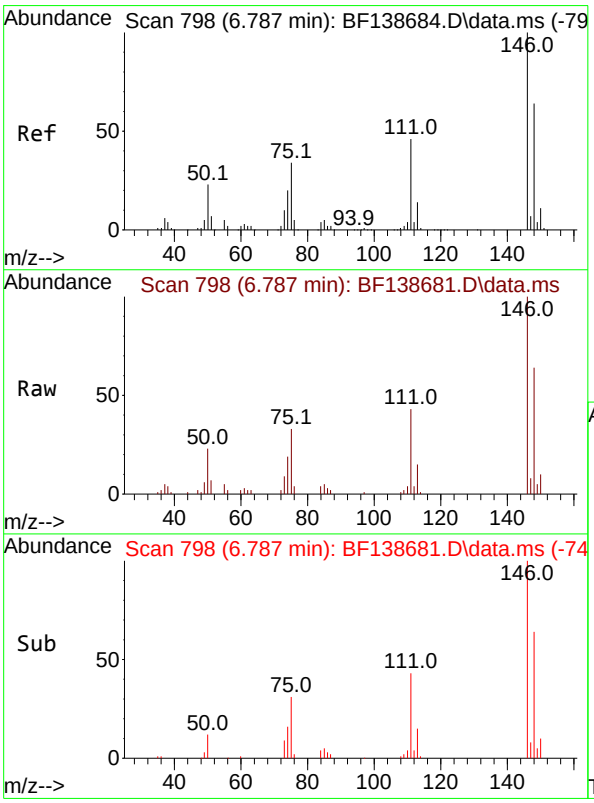

#11
bis(2-Chloroethyl)ether
Concen: 5.302 ng
RT: 6.575 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

Tgt Ion: 93 Resp: 26204

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 88.0 | 65.3 | 105.3 |
| 95 | 31.8 | 12.4 | 52.4 |

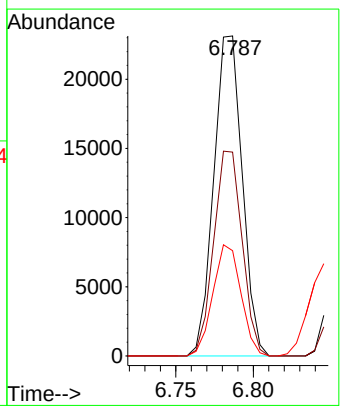


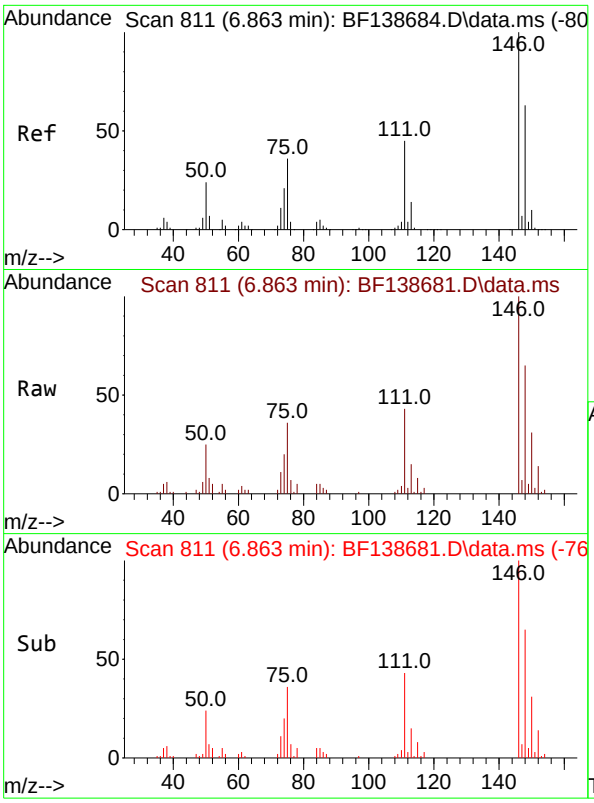




#12
1,3-Dichlorobenzene
Concen: 5.529 ng
RT: 6.787 min Scan# 798
Delta R.T. 0.000 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:146 Resp: 29587

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 63.7 | 51.2 | 76.8 |
| 75 | 32.9 | 27.4 | 41.2 |



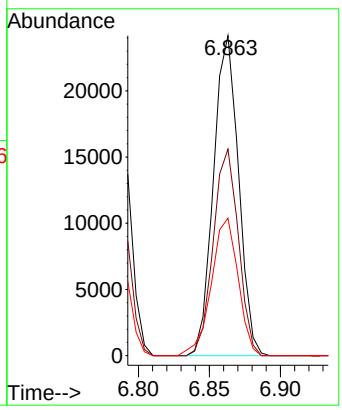


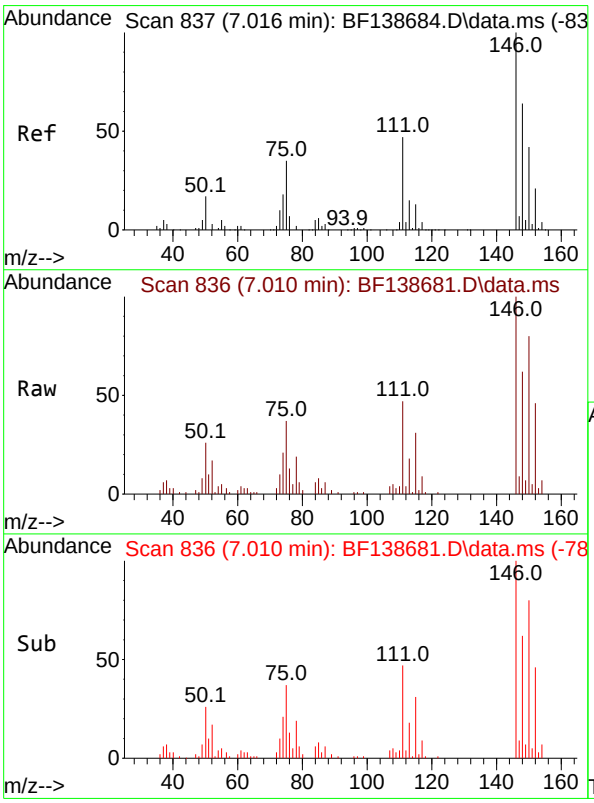

#13
1,4-Dichlorobenzene
Concen: 5.485 ng
RT: 6.863 min Scan# 81
Delta R.T. 0.000 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

Tgt Ion:146 Resp: 29620

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 64.6 | 50.2 | 75.2 |
| 111 | 42.9 | 35.9 | 53.9 |

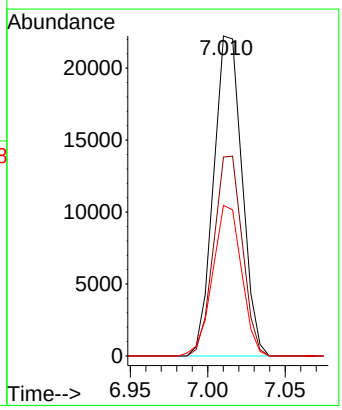


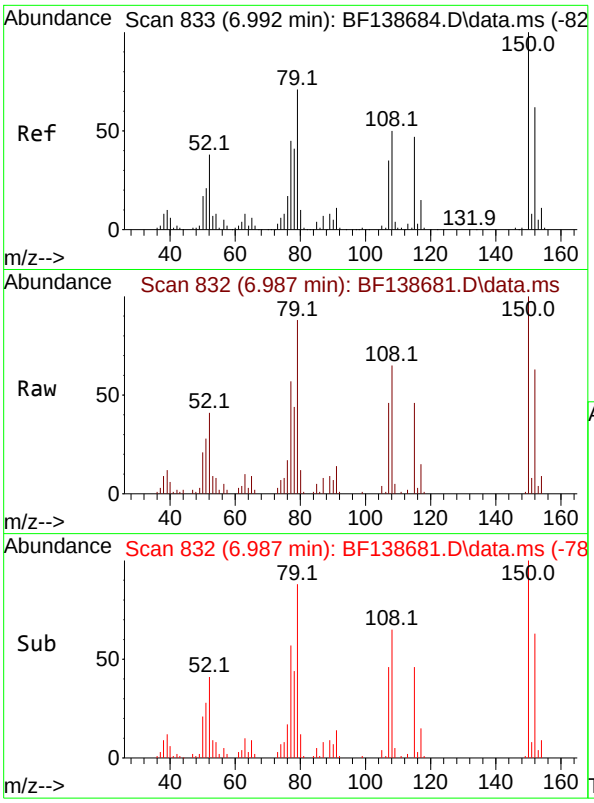




#14
1,2-Dichlorobenzene
Concen: 5.630 ng
RT: 7.010 min Scan# 836
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:146 Resp: 28415

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 62.1 | 50.8 | 76.2 |
| 111 | 47.0 | 37.4 | 56.2 |



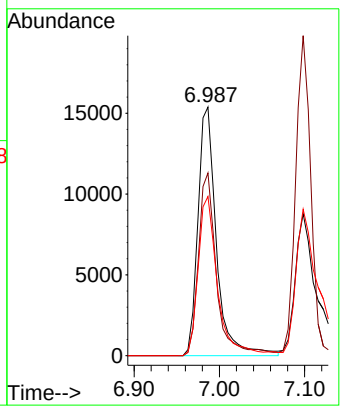


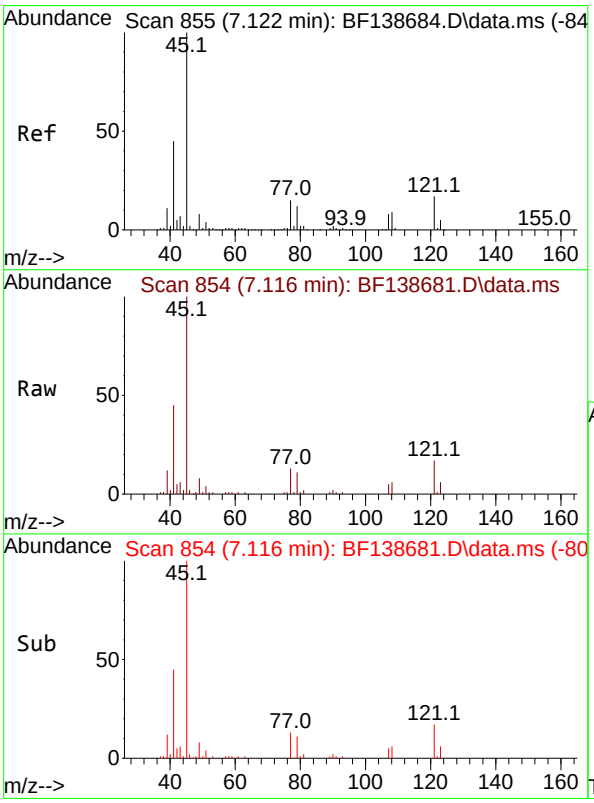

#15
Benzyl Alcohol
Concen: 5.287 ng
RT: 6.987 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

Tgt Ion: 79 Resp: 23244

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 108 | 73.5 | 56.6 | 85.0 |
| 77 | 64.0 | 50.3 | 75.5 |

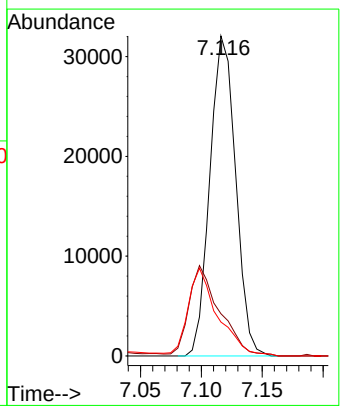


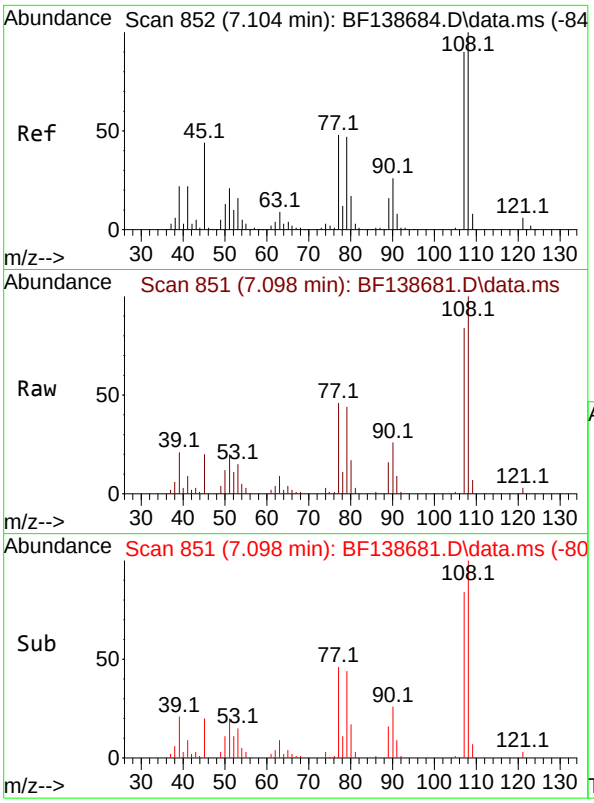




#16
2,2'-oxybis(1-Chloropropane)
Concen: 5.555 ng
RT: 7.116 min Scan# 854
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion: 45 Resp: 47247

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 77 | 13.2 | 0.0 | 34.9 |
| 79 | 10.6 | 0.0 | 32.2 |



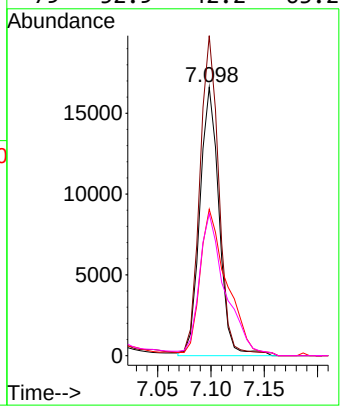


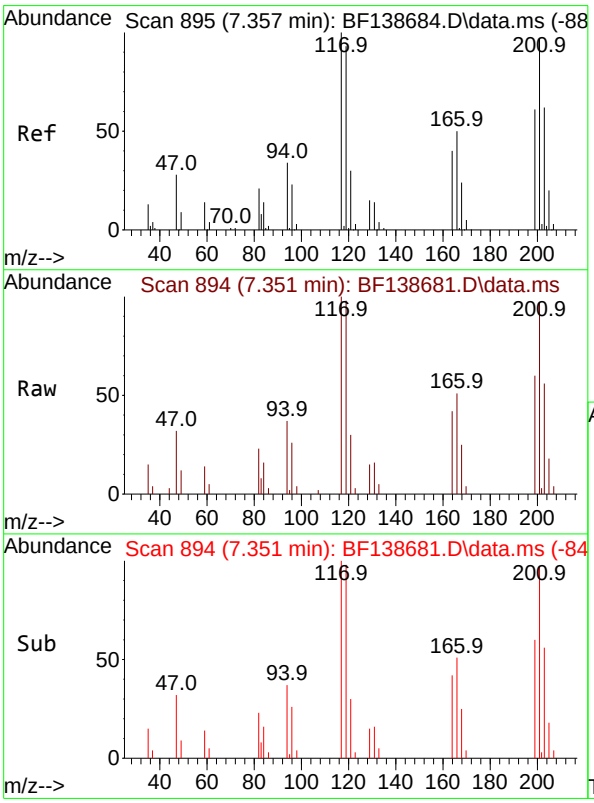

#17
2-Methylphenol
Concen: 5.293 ng
RT: 7.098 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

Tgt Ion:107 Resp: 20893

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 119.2 | 89.2 | 133.8 |
| 77 | 54.5 | 43.0 | 64.4 |
| 79 | 52.9 | 42.2 | 63.2 |

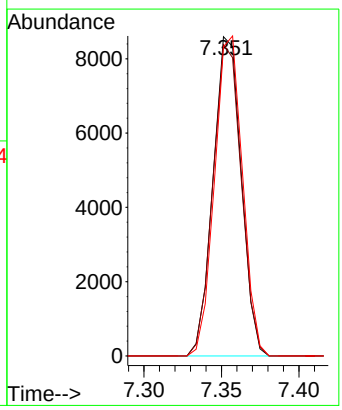


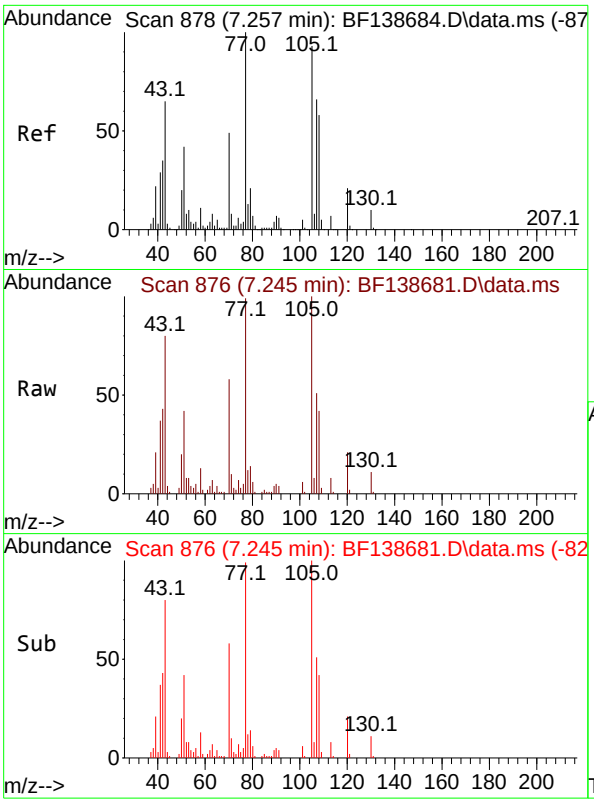




#18
Hexachloroethane
Concen: 5.342 ng
RT: 7.351 min Scan# 894
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:117 Resp: 10859

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 97.6 | 74.6 | 111.8 |
| 201 | 96.9 | 77.2 | 115.8 |



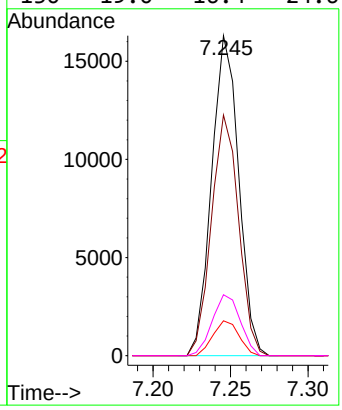


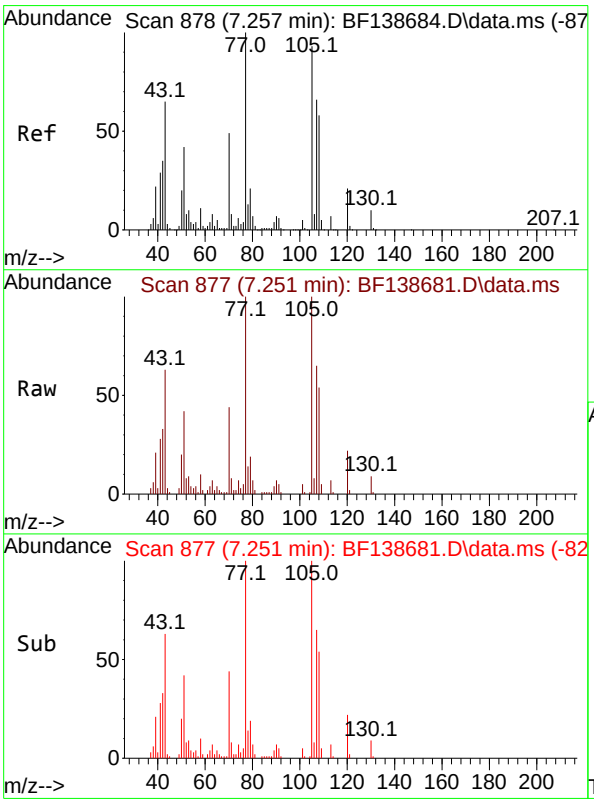

#19
n-Nitroso-di-n-propylamine
Concen: 5.375 ng
RT: 7.245 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

Tgt Ion: 70 Resp: 19805

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 42 | 75.2 | 57.4 | 86.0 |
| 101 | 10.9 | 7.5 | 11.3 |
| 130 | 19.0 | 16.4 | 24.6 |

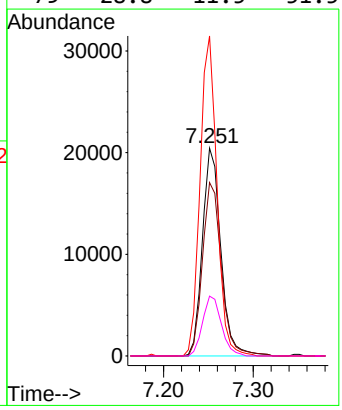


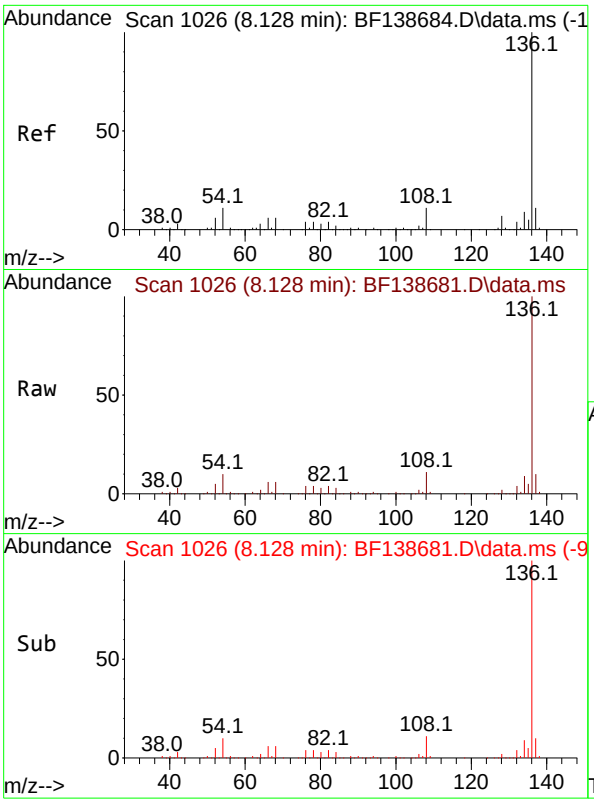




#20
3+4-Methylphenols
Concen: 5.750 ng
RT: 7.251 min Scan# 877
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:107 Resp: 29122

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 83.5 | 68.2 | 108.2 |
| 77 | 154.0 | 132.1 | 172.1 |
| 79 | 28.8 | 11.5 | 51.5 |



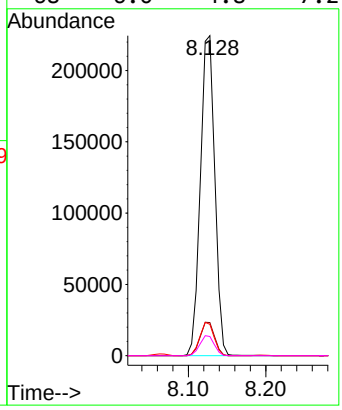


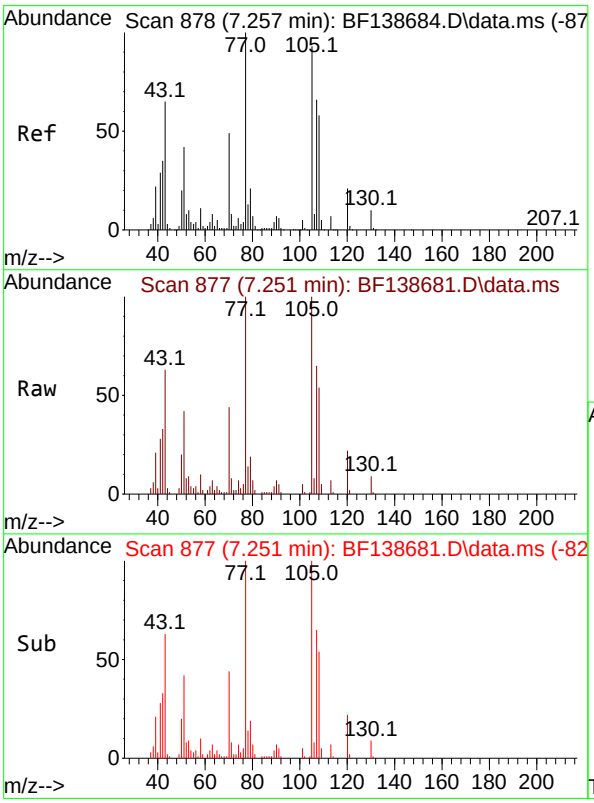

#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.128 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

Tgt Ion:136 Resp: 290994

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.3 | 8.9 | 13.3 |
| 54 | 9.8 | 8.6 | 12.8 |
| 68 | 6.0 | 4.8 | 7.2 |

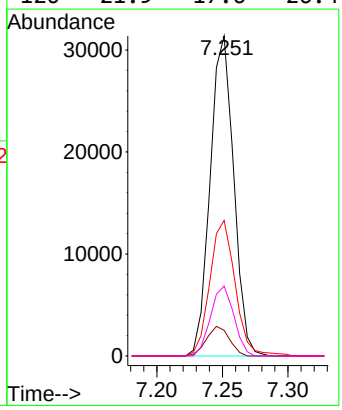


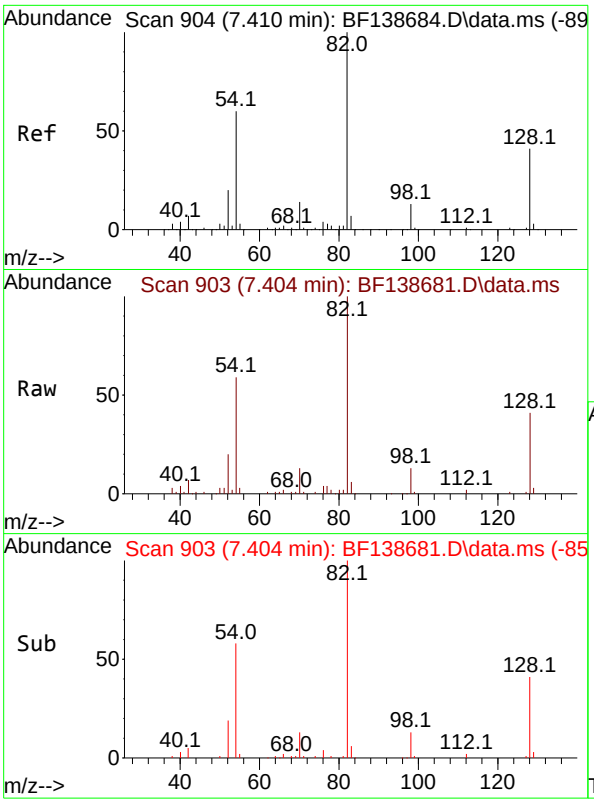




#22
Acetophenone
Concen: 5.496 ng
RT: 7.251 min Scan# 877
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:105 Resp: 39162

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 71 | 8.0 | 7.2 | 10.8 |
| 51 | 42.3 | 35.9 | 53.9 |
| 120 | 21.9 | 17.6 | 26.4 |



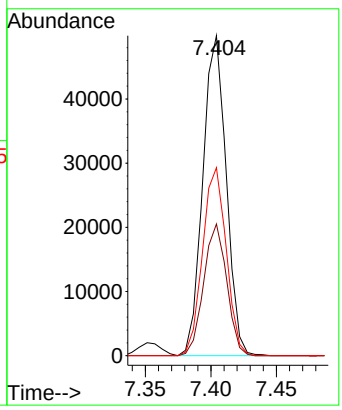


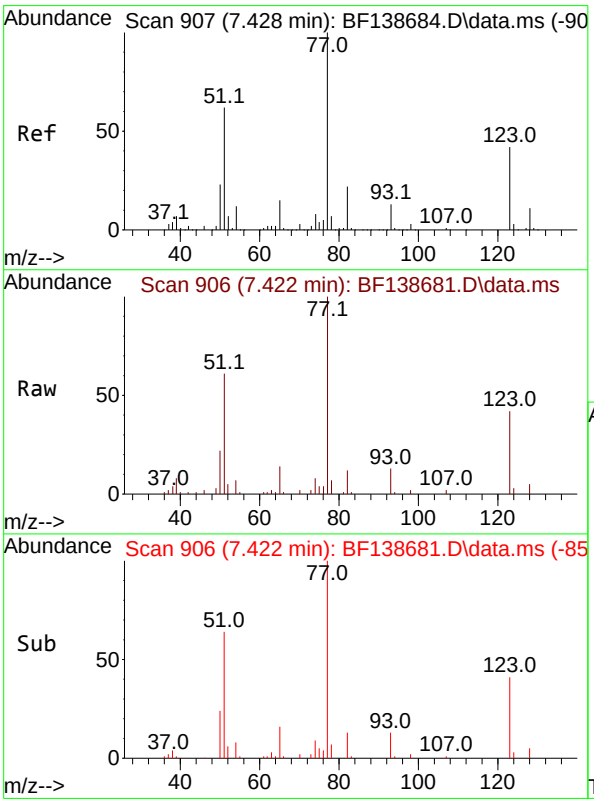

#23
Nitrobenzene-d5
Concen: 10.407 ng
RT: 7.404 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

Tgt Ion: 82 Resp: 61942

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 41.2 | 32.8 | 49.2 |
| 54 | 58.8 | 48.3 | 72.5 |

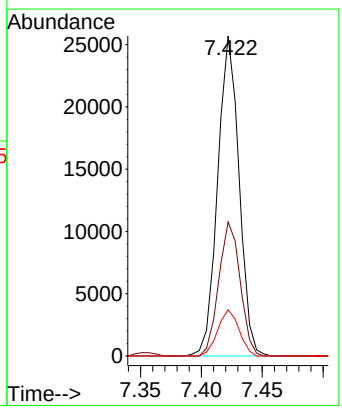


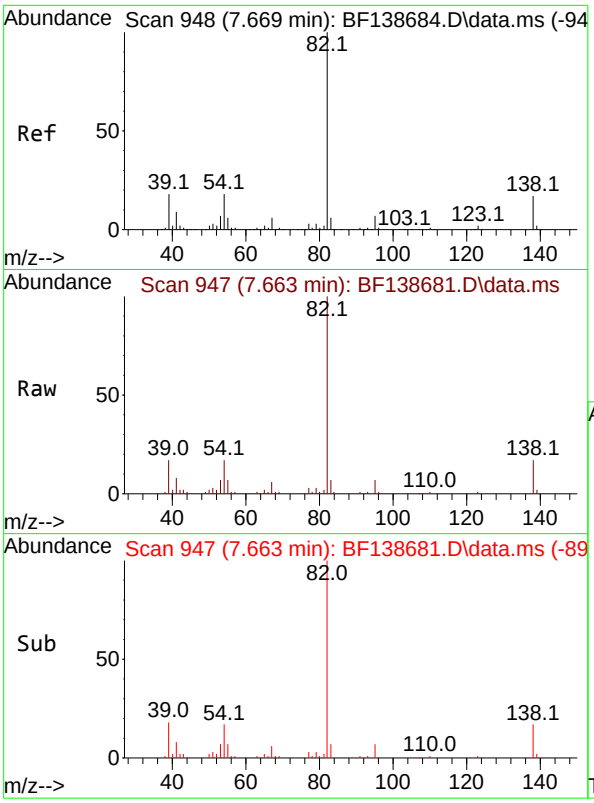




#24
Nitrobenzene
Concen: 5.183 ng
RT: 7.422 min Scan# 906
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion: 77 Resp: 31388

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 123 | 41.8 | 33.3 | 49.9 |
| 65 | 14.5 | 11.9 | 17.9 |



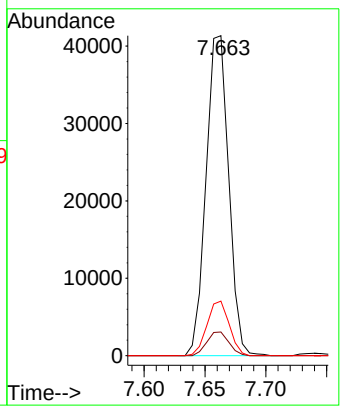


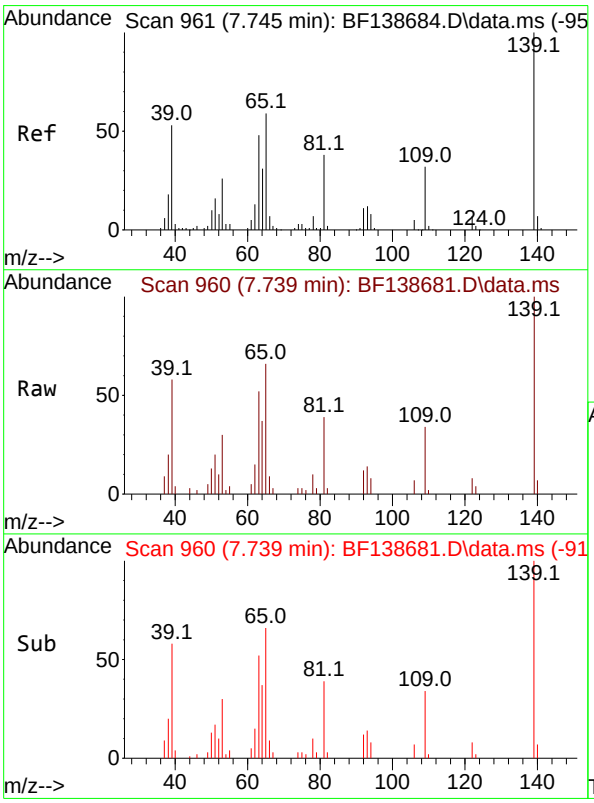

#25
Isophorone
Concen: 5.260 ng
RT: 7.663 min Scan# 94
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

Tgt Ion: 82 Resp: 53456

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 95 | 7.4 | 5.7 | 8.5 |
| 138 | 17.1 | 13.7 | 20.5 |

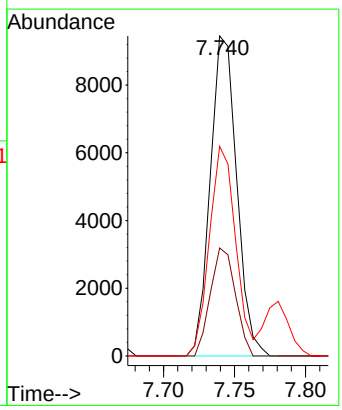


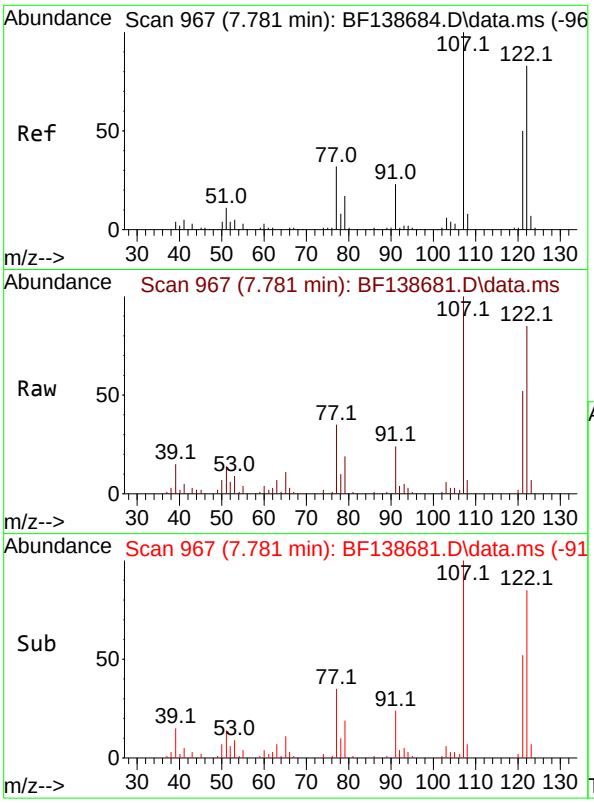




#26
2-Nitrophenol
Concen: 4.708 ng
RT: 7.739 min Scan# 960
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:139 Resp: 12268

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 33.8 | 25.9 | 38.9 |
| 65 | 65.5 | 47.0 | 70.6 |



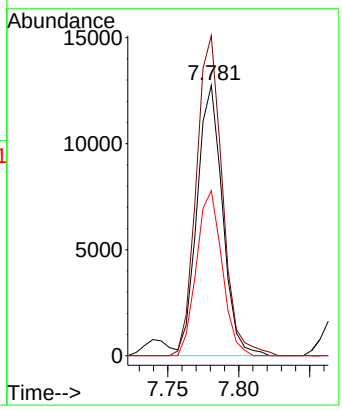


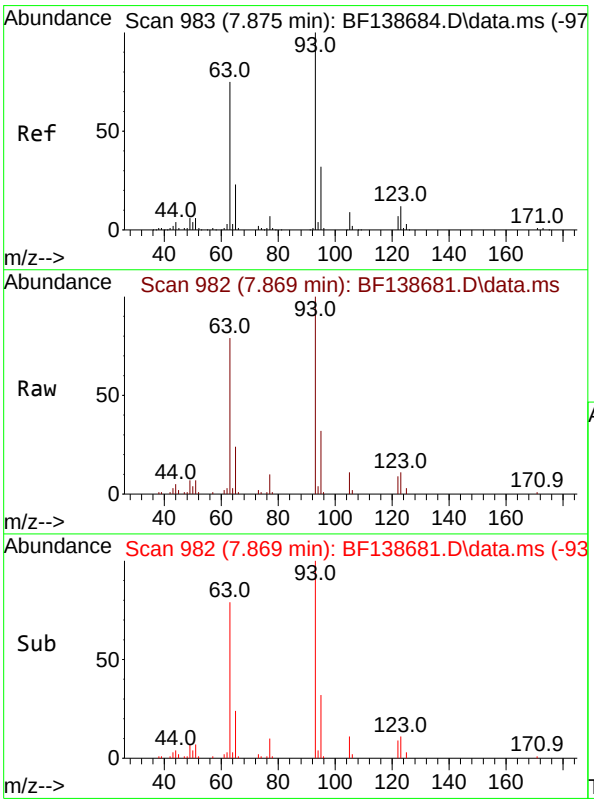

#27
2,4-Dimethylphenol
Concen: 5.102 ng
RT: 7.781 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

Tgt Ion:122 Resp: 15906

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 107 | 118.3 | 95.0 | 142.6 |
| 121 | 61.0 | 47.3 | 70.9 |

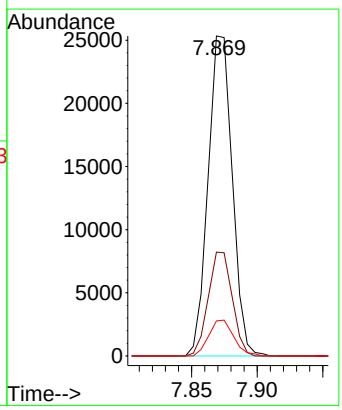


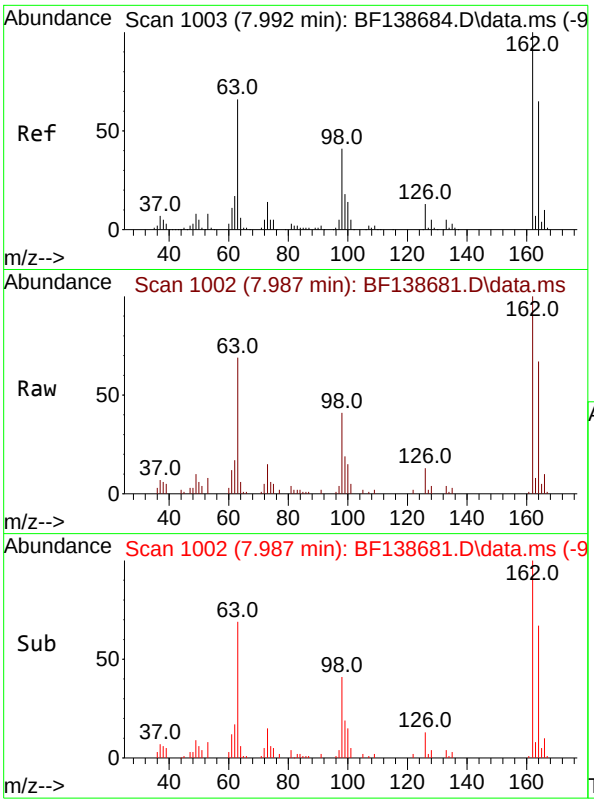




#28
bis(2-Chloroethoxy)methane
Concen: 5.263 ng
RT: 7.869 min Scan# 982
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion: 93 Resp: 32570

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 32.5 | 25.8 | 38.8 |
| 123 | 10.9 | 9.4 | 14.0 |



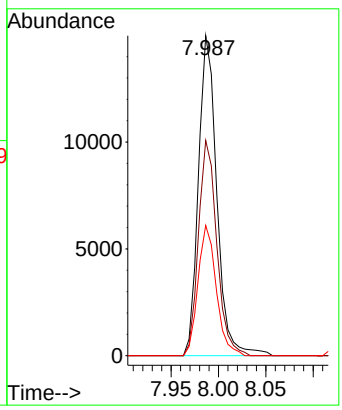


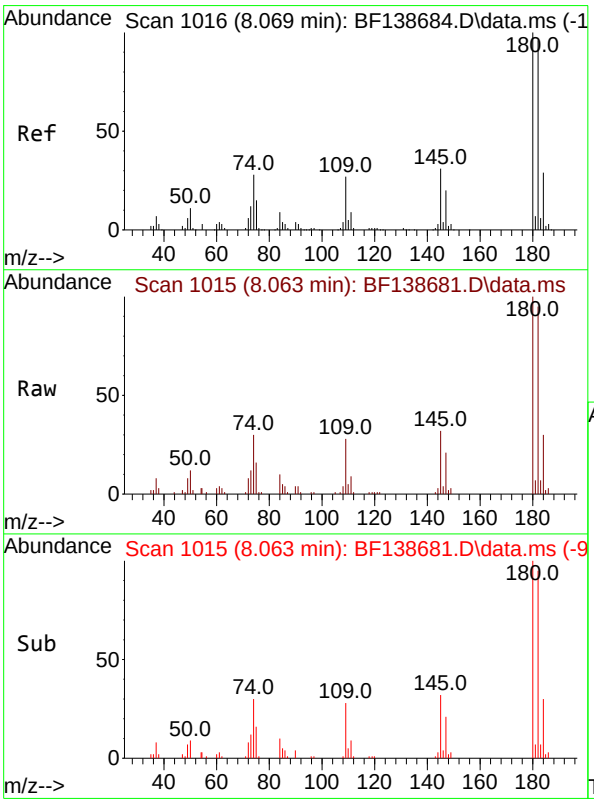

#29
2,4-Dichlorophenol
Concen: 5.058 ng
RT: 7.987 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

Tgt Ion:162 Resp: 20263

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 164 | 67.2 | 44.7 | 84.7 |
| 98 | 40.7 | 20.8 | 60.8 |

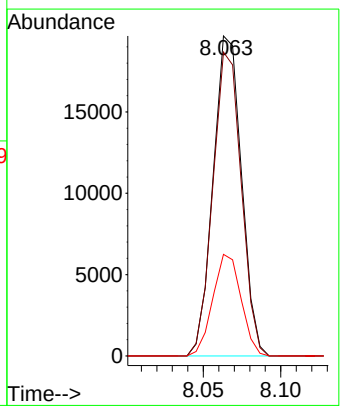


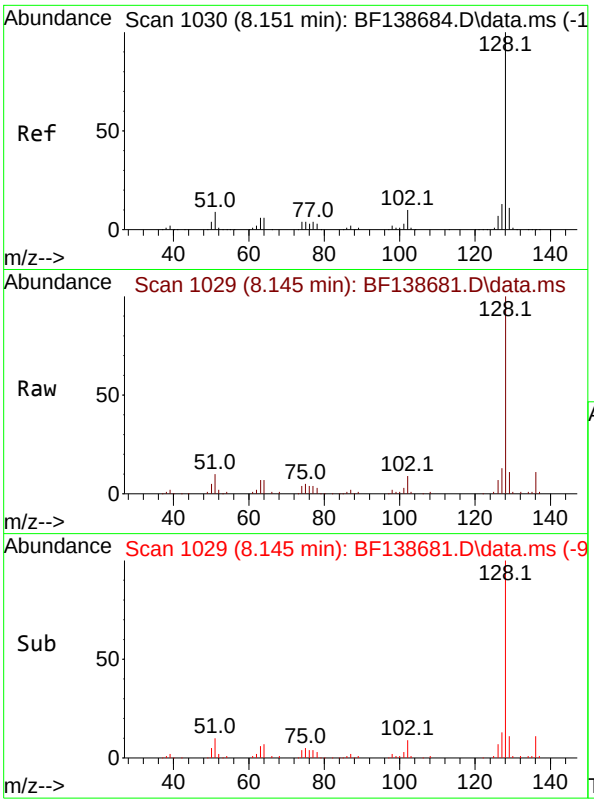




#30
1,2,4-Trichlorobenzene
Concen: 5.414 ng
RT: 8.063 min Scan# 1015
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:180 Resp: 25030

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.0 | 76.9 | 115.3 |
| 145 | 31.7 | 25.0 | 37.4 |



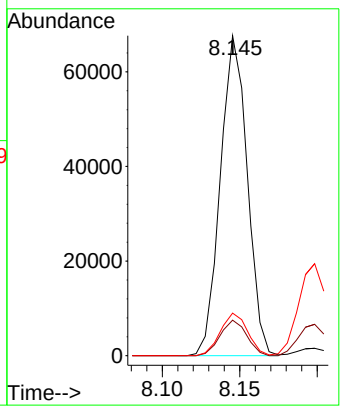


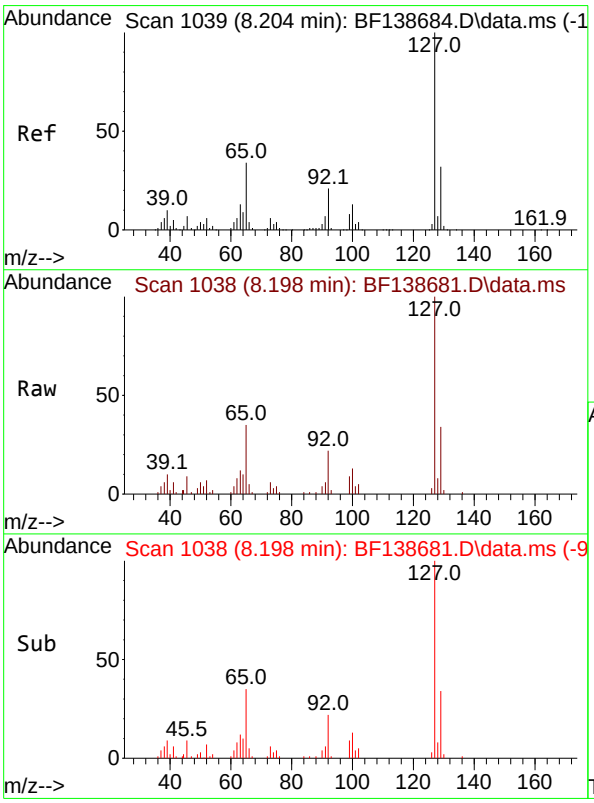

#31
Naphthalene
Concen: 5.338 ng
RT: 8.145 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

Tgt Ion:128 Resp: 81757

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.1 | 8.7 | 13.1 |
| 127 | 13.3 | 10.6 | 16.0 |

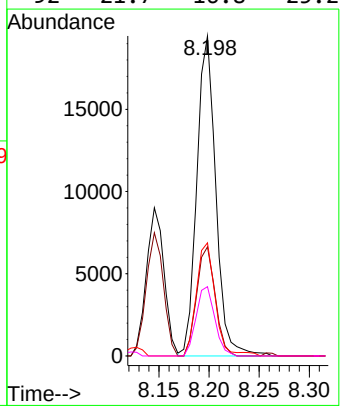


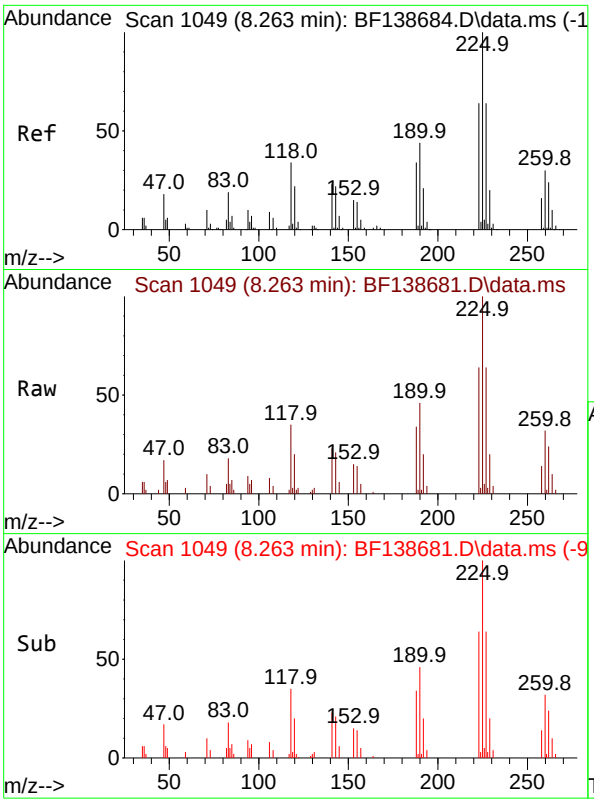




#33
4-Chloroaniline
Concen: 5.009 ng
RT: 8.198 min Scan# 1038
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:127 Resp: 25753

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 34.1 | 25.9 | 38.9 |
| 65 | 35.4 | 27.6 | 41.4 |
| 92 | 21.7 | 16.8 | 25.2 |



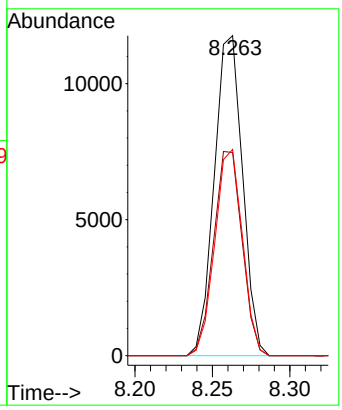


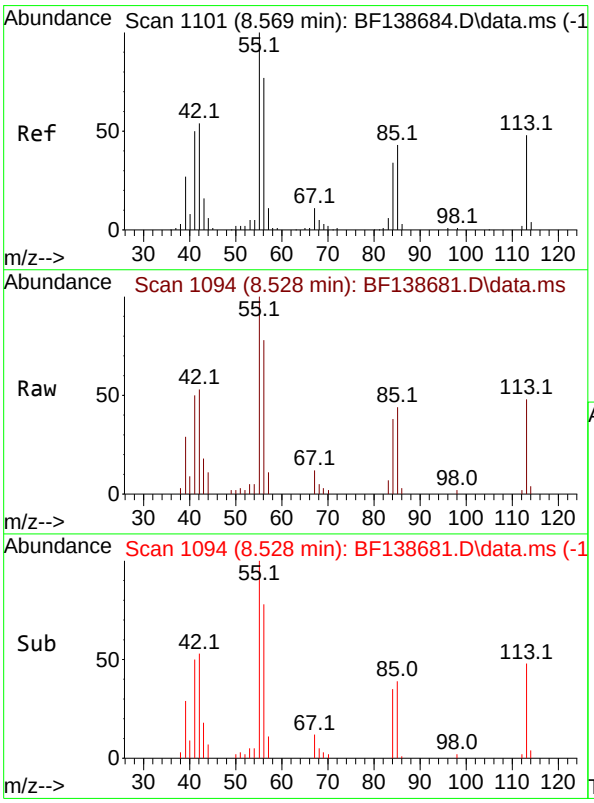

#34
Hexachlorobutadiene
Concen: 5.337 ng
RT: 8.263 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

Tgt Ion:225 Resp: 14945

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.5 | 51.2 | 76.8 |
| 227 | 64.4 | 51.1 | 76.7 |

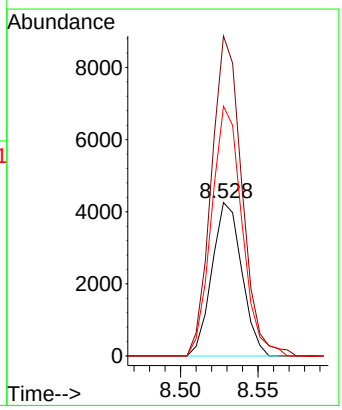


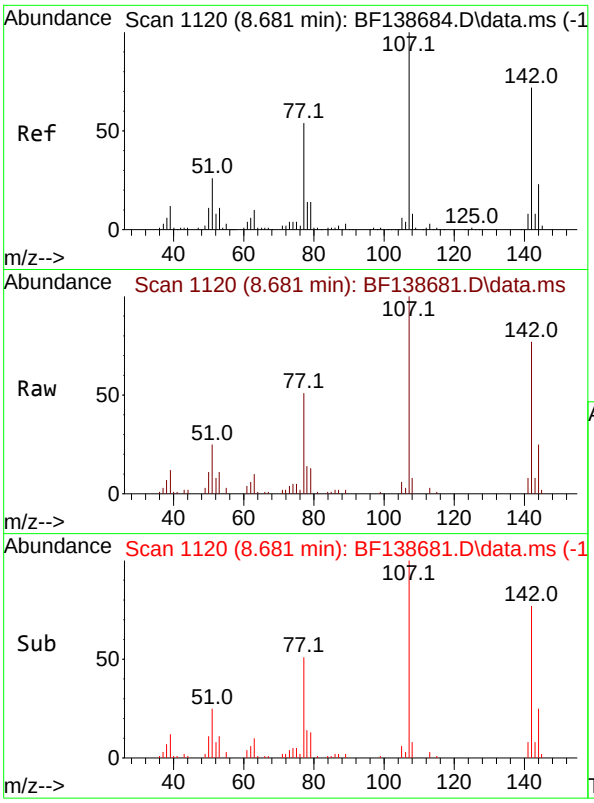




#35
Caprolactam
Concen: 4.763 ng
RT: 8.528 min Scan# 1094
Delta R.T. -0.041 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:113 Resp: 5694

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 55 | 208.6 | 186.7 | 226.7 |
| 56 | 162.7 | 138.9 | 178.9 |



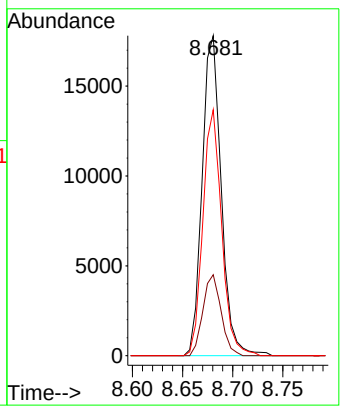


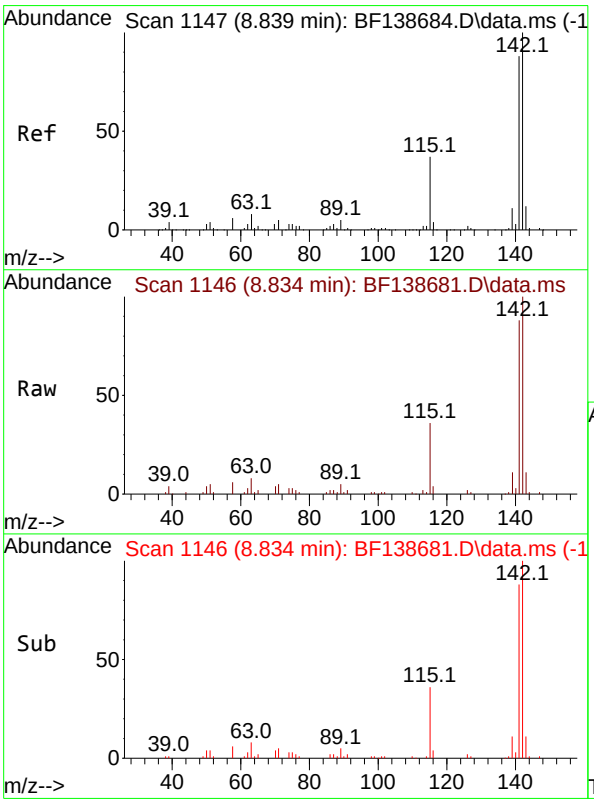

#36
4-Chloro-3-methylphenol
Concen: 5.173 ng
RT: 8.681 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

Tgt Ion:107 Resp: 23684

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 144 | 25.3 | 18.2 | 27.2 |
| 142 | 76.9 | 57.4 | 86.2 |

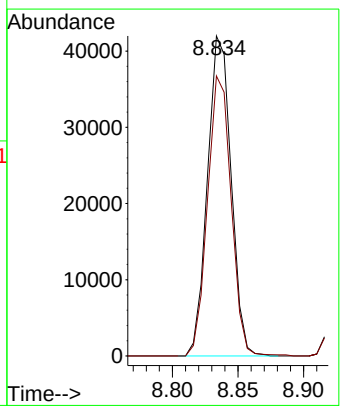


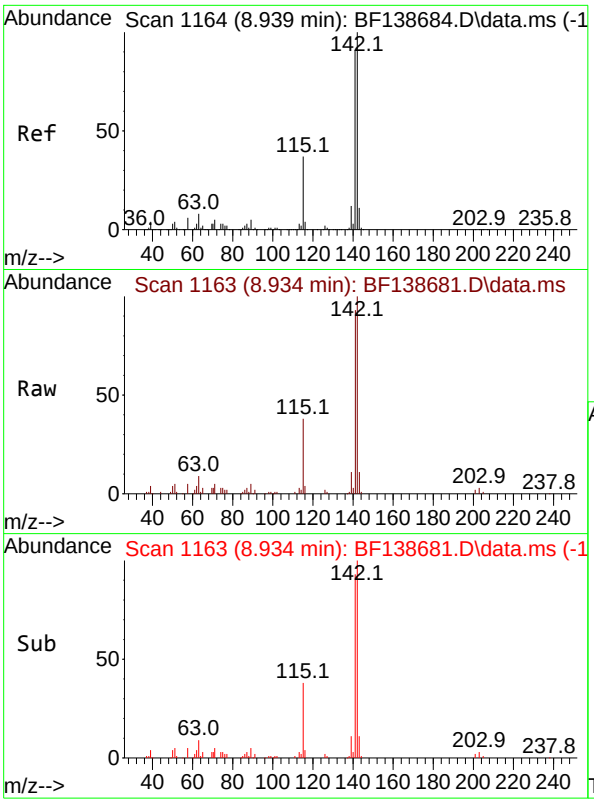




#37
2-Methylnaphthalene
Concen: 5.439 ng
RT: 8.834 min Scan# 1146
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:142 Resp: 52614

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 87.5 | 70.8 | 106.2 |



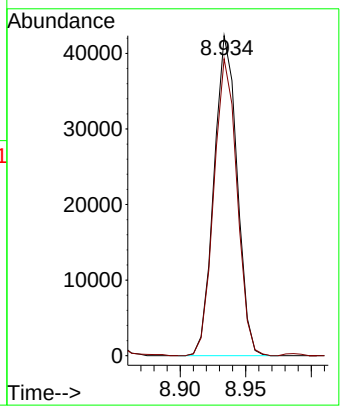


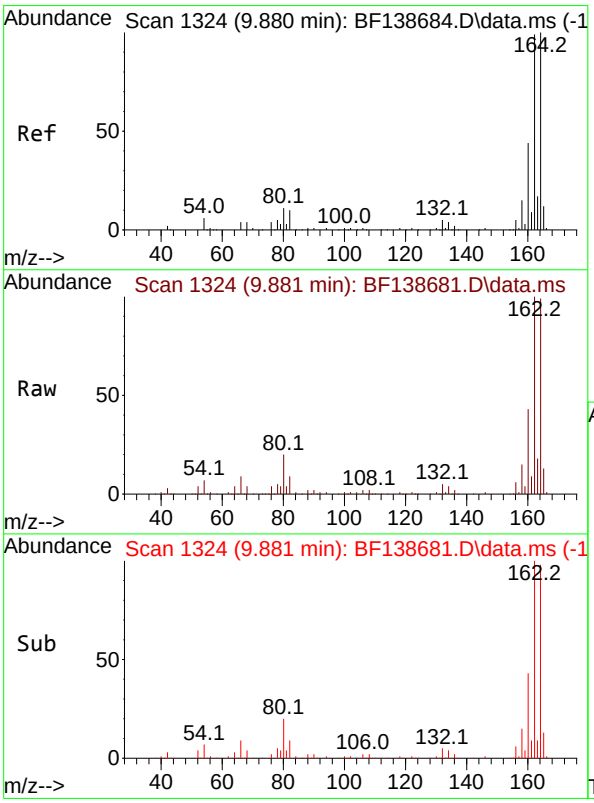

#38
1-Methylnaphthalene
Concen: 5.470 ng
RT: 8.934 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

Tgt Ion:142 Resp: 51855

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 92.8 | 73.1 | 109.7 |

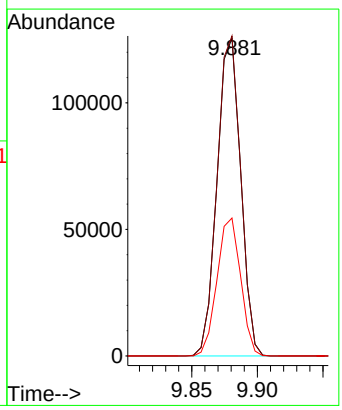


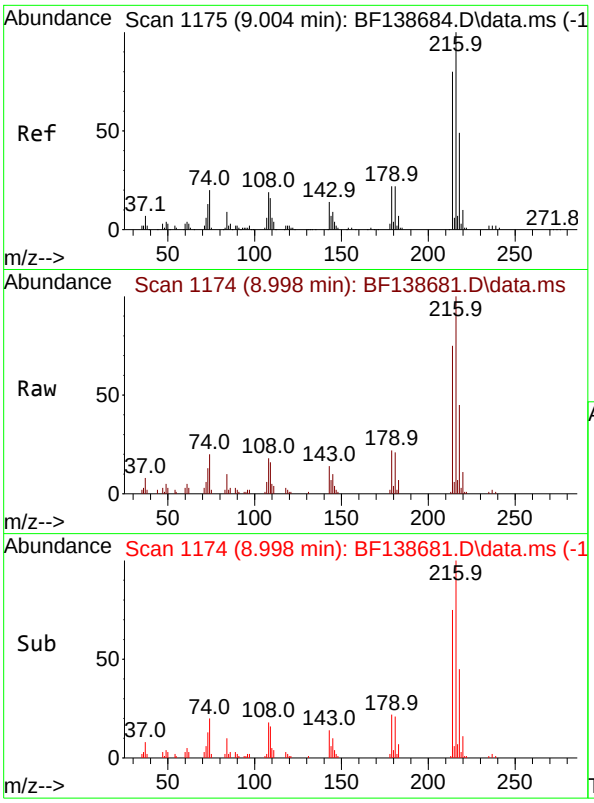




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.881 min Scan# 1324
Delta R.T. 0.001 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:164 Resp: 157274

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 100.7 | 79.4 | 119.0 |
| 160 | 43.4 | 35.1 | 52.7 |



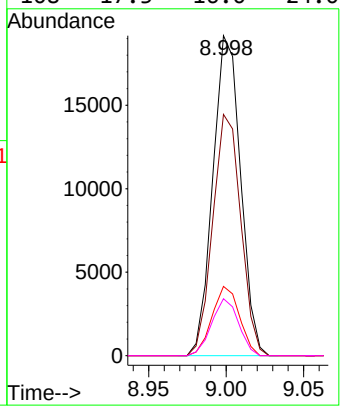


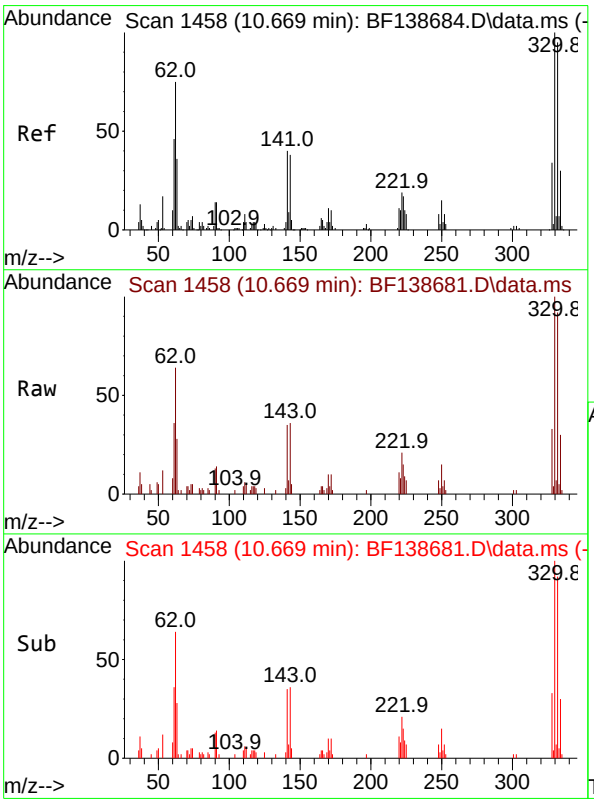

#40
1,2,4,5-Tetrachlorobenzene
Concen: 5.456 ng
RT: 8.998 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

Tgt Ion:216 Resp: 23837

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 216 | 100 | | |
| 214 | 76.1 | 63.9 | 95.9 |
| 179 | 21.4 | 17.8 | 26.6 |
| 108 | 17.3 | 16.0 | 24.0 |

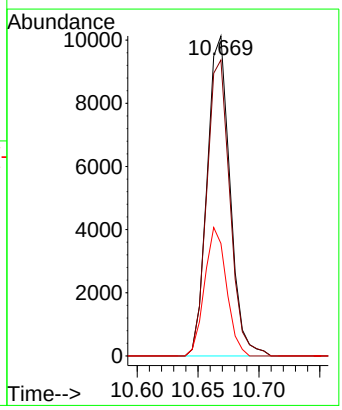


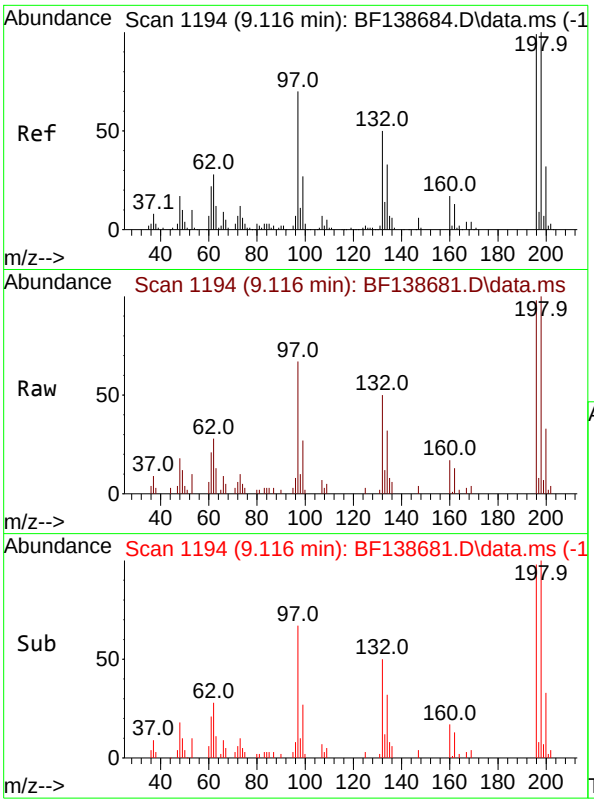




#42
2,4,6-Tribromophenol
Concen: 10.260 ng
RT: 10.669 min Scan# 1458
Delta R.T. 0.000 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:330 Resp: 13218

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 93.9 | 76.4 | 114.6 |
| 141 | 38.6 | 31.1 | 46.7 |



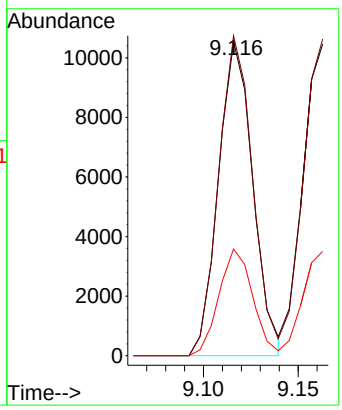


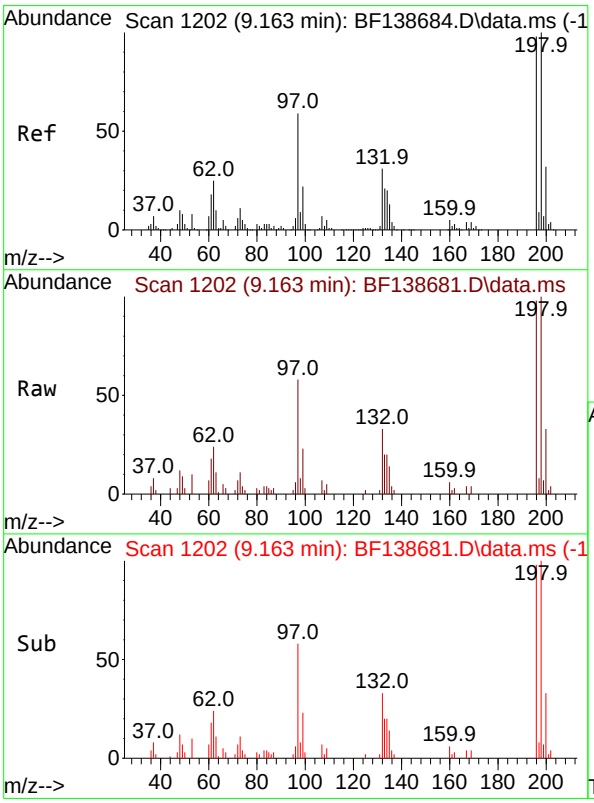

#43
2,4,6-Trichlorophenol
Concen: 4.994 ng
RT: 9.116 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

Tgt Ion:196 Resp: 13303

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 101.8 | 80.5 | 120.7 |
| 200 | 34.0 | 25.9 | 38.9 |

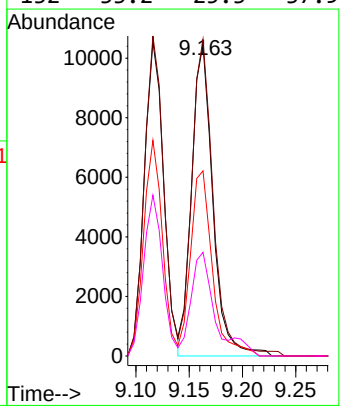


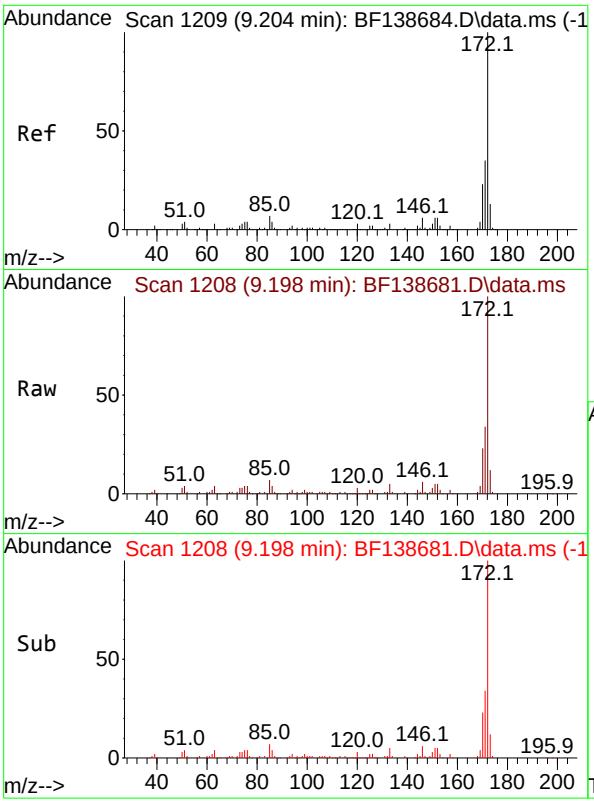




#44
2,4,5-Trichlorophenol
Concen: 4.972 ng
RT: 9.163 min Scan# 1202
Delta R.T. 0.000 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:196 Resp: 14479

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 101.6 | 81.2 | 121.8 |
| 97 | 59.4 | 47.8 | 71.6 |
| 132 | 33.2 | 25.3 | 37.9 |



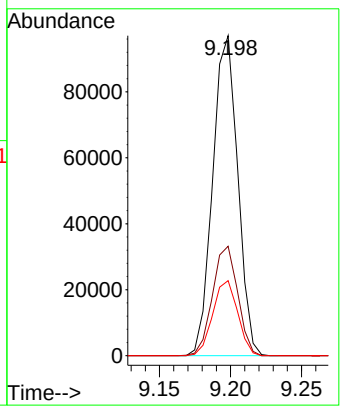


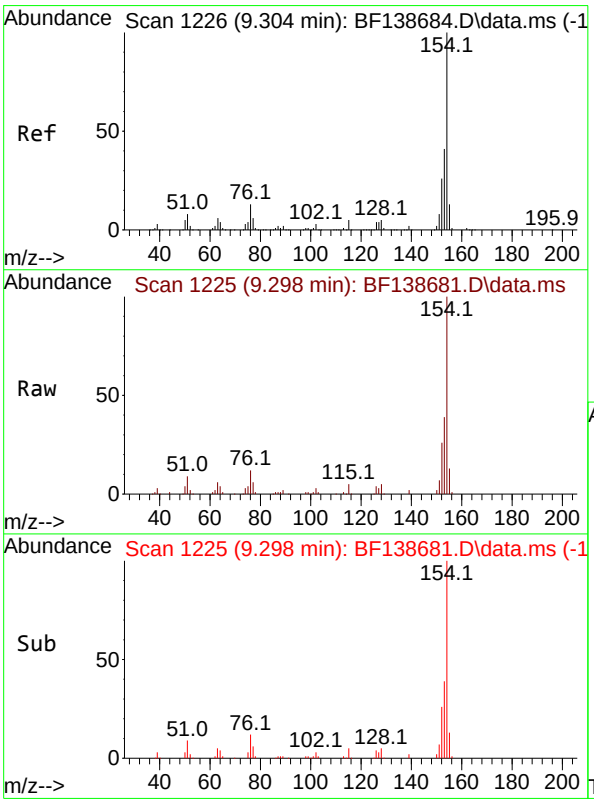

#45
2-Fluorobiphenyl
Concen: 11.357 ng
RT: 9.198 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

Tgt Ion:172 Resp: 118878

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 34.2 | 28.3 | 42.5 |
| 170 | 23.5 | 18.8 | 28.2 |

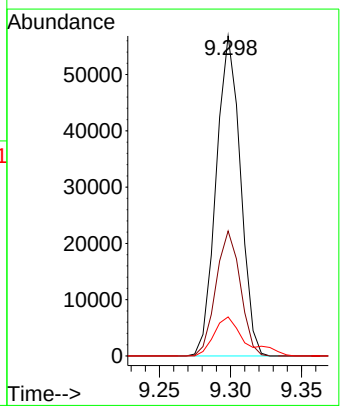


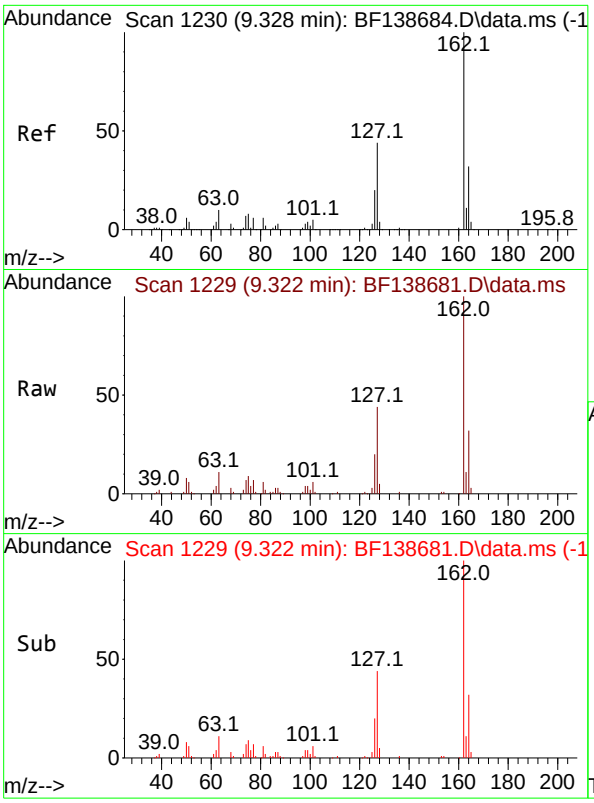




#46
1,1'-Biphenyl
Concen: 5.471 ng
RT: 9.298 min Scan# 1225
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:154 Resp: 67394

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 39.1 | 20.8 | 60.8 |
| 76 | 12.2 | 0.0 | 32.8 |



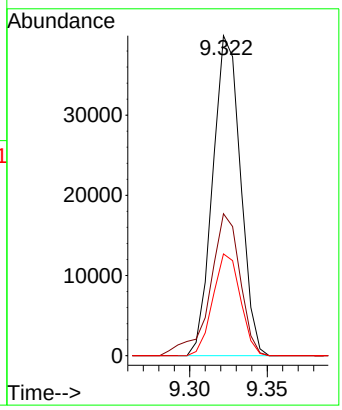


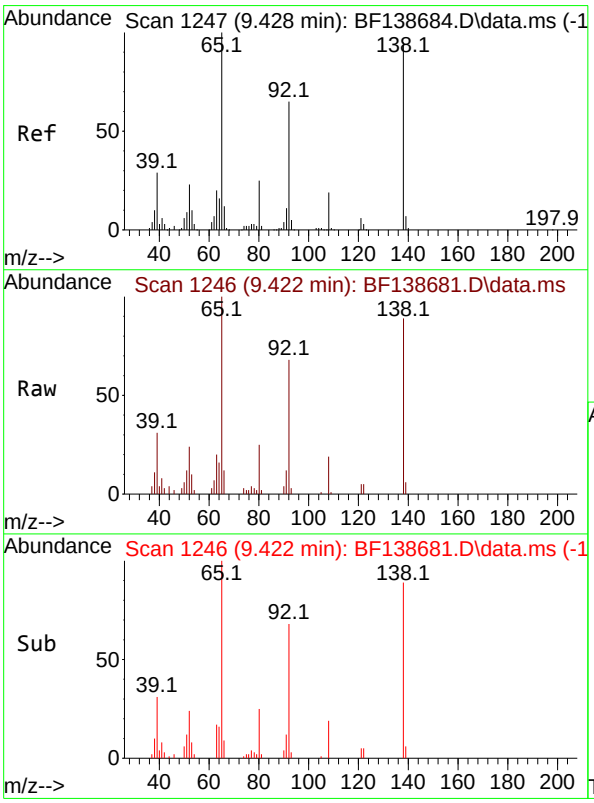

#47
2-Chloronaphthalene
Concen: 5.421 ng
RT: 9.322 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

Tgt Ion:162 Resp: 49660

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 127 | 44.3 | 35.4 | 53.2 |
| 164 | 31.8 | 25.6 | 38.4 |

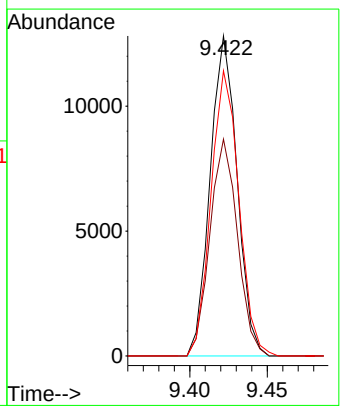


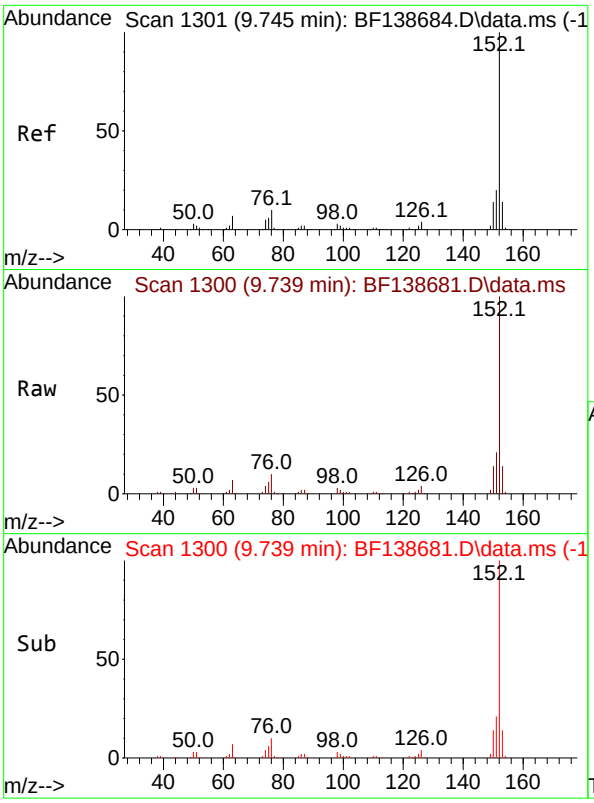




#48
2-Nitroaniline
Concen: 4.982 ng
RT: 9.422 min Scan# 1246
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion: 65 Resp: 15473

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 92 | 67.8 | 52.0 | 78.0 |
| 138 | 89.1 | 76.2 | 114.4 |



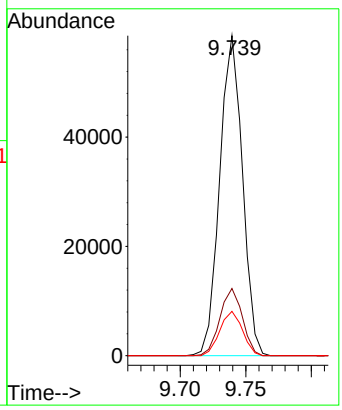


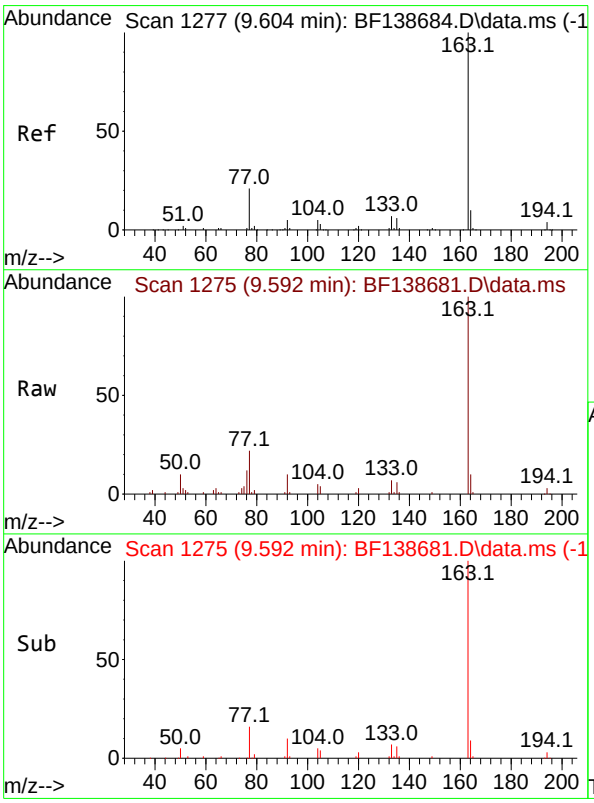

#49
Acenaphthylene
Concen: 5.435 ng
RT: 9.739 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

Tgt Ion:152 Resp: 70622

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.0 | 16.0 | 24.0 |
| 153 | 13.9 | 11.0 | 16.4 |

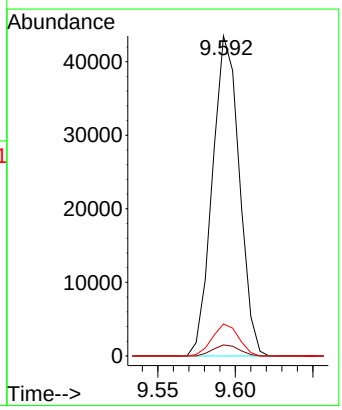


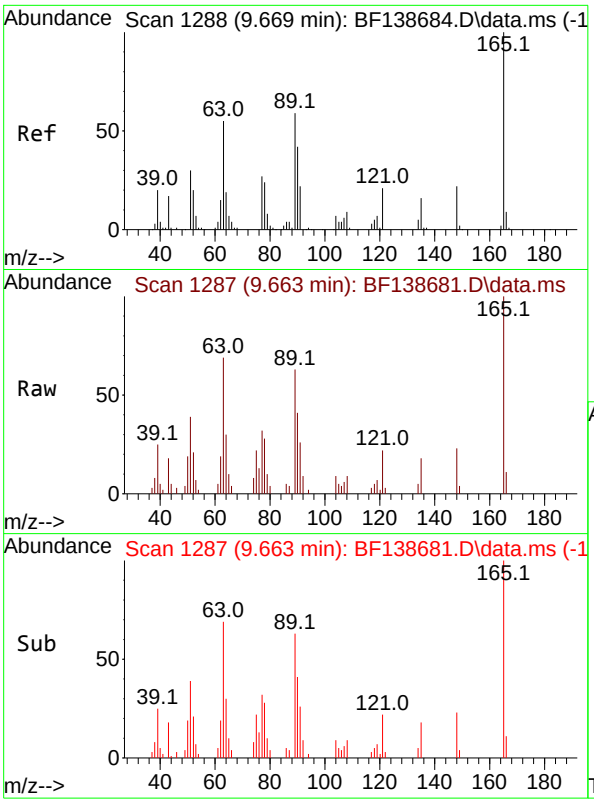




#50
Dimethylphthalate
Concen: 5.223 ng
RT: 9.592 min Scan# 1275
Delta R.T. -0.012 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:163 Resp: 52521

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 3.4 | 3.1 | 4.7 |
| 164 | 10.0 | 7.8 | 11.8 |



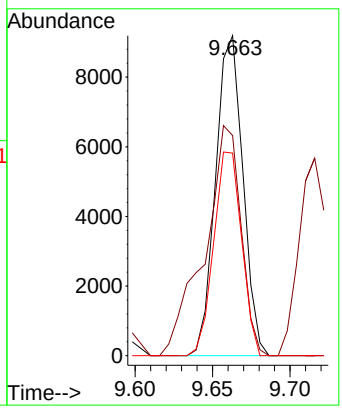


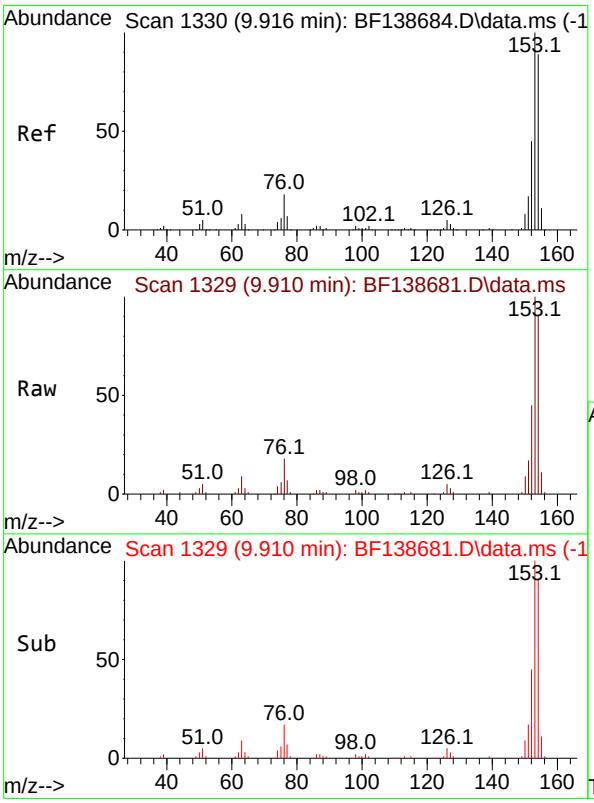

#51
2,6-Dinitrotoluene
Concen: 4.963 ng
RT: 9.663 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

Tgt Ion:165 Resp: 11264

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 68.8 | 52.0 | 78.0 |
| 89 | 63.3 | 47.0 | 70.6 |

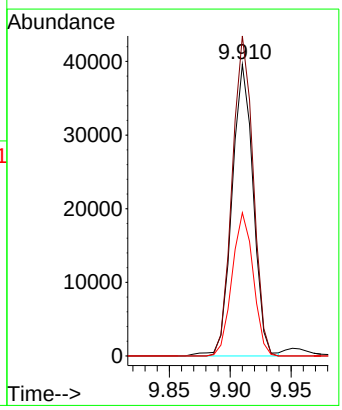


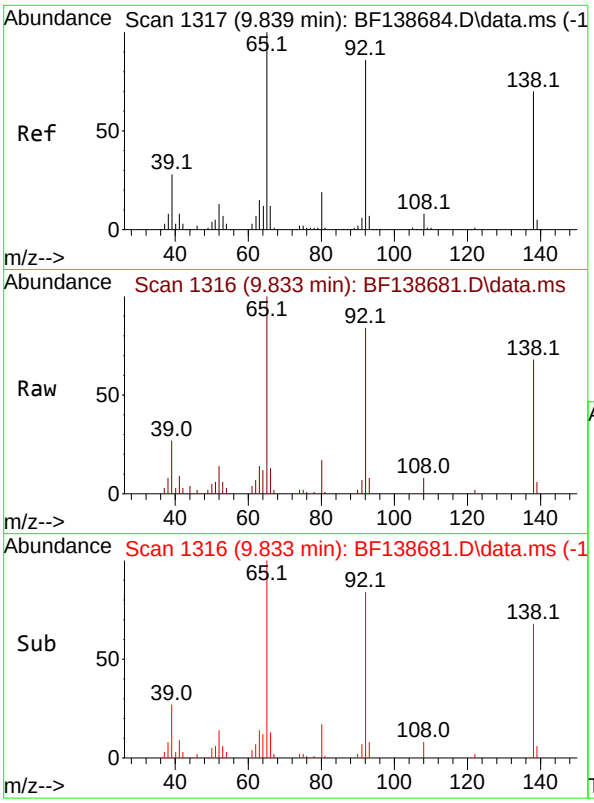




#52
Acenaphthene
Concen: 5.480 ng
RT: 9.910 min Scan# 1329
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:154 Resp: 47866

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 109.8 | 89.9 | 134.9 |
| 152 | 49.1 | 40.6 | 60.8 |



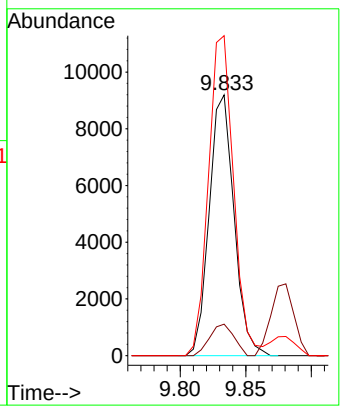


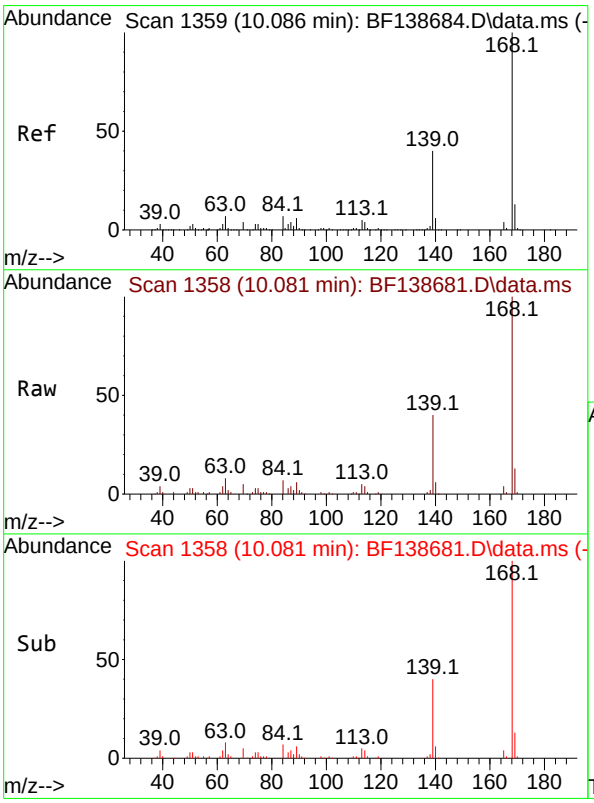

#53
3-Nitroaniline
Concen: 5.167 ng
RT: 9.833 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

Tgt Ion:138 Resp: 12123

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 108 | 12.1 | 9.1 | 13.7 |
| 92 | 122.7 | 98.7 | 148.1 |

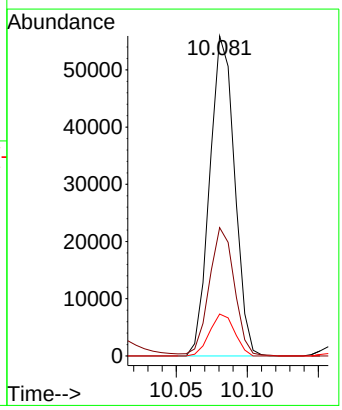


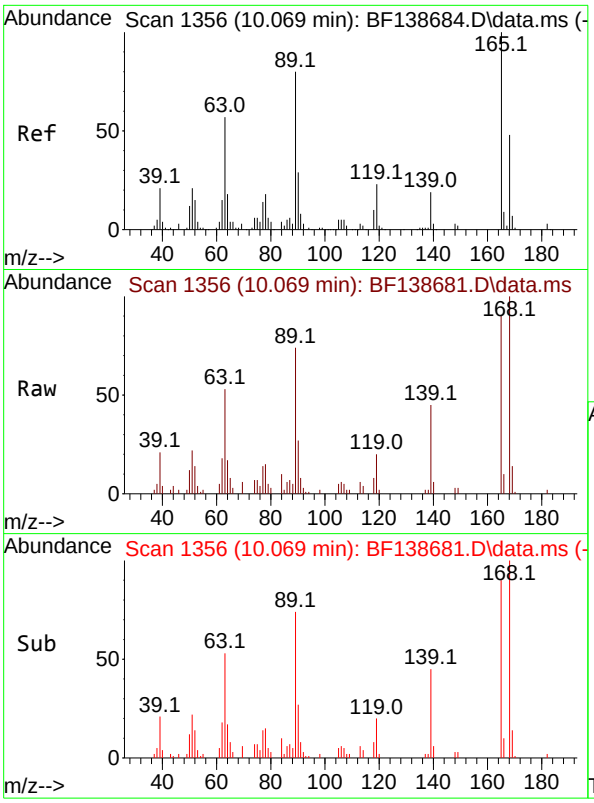




#55
Dibenzofuran
Concen: 5.515 ng
RT: 10.081 min Scan# 1358
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:168 Resp: 67994

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 40.1 | 32.6 | 49.0 |
| 169 | 13.1 | 10.7 | 16.1 |



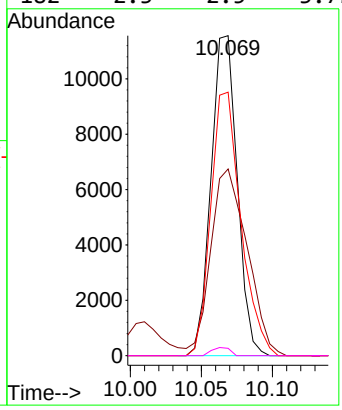


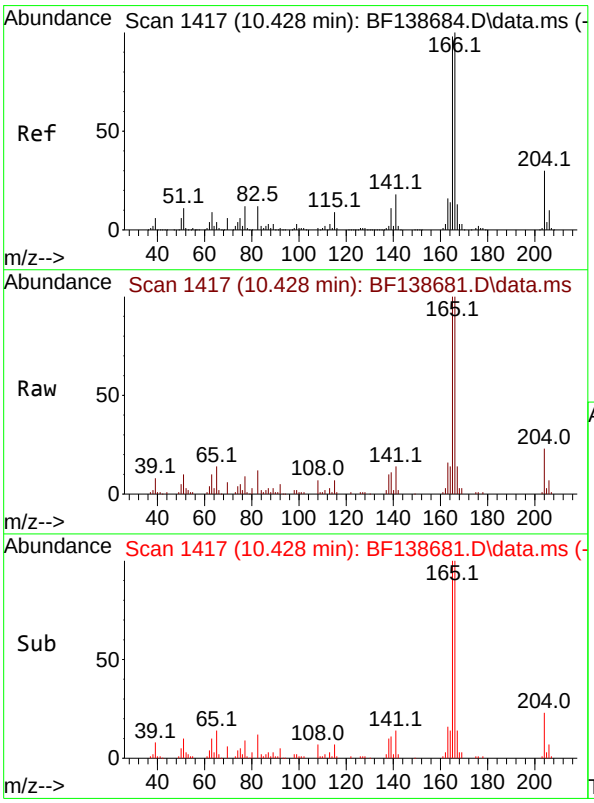

#57
2,4-Dinitrotoluene
Concen: 5.117 ng
RT: 10.069 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

Tgt Ion:165 Resp: 14816

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 58.4 | 46.3 | 69.5 |
| 89 | 82.4 | 64.2 | 96.4 |
| 182 | 2.3 | 2.5 | 3.7# |

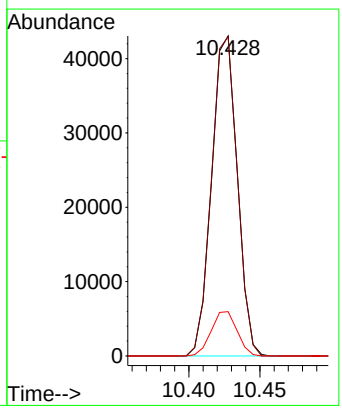


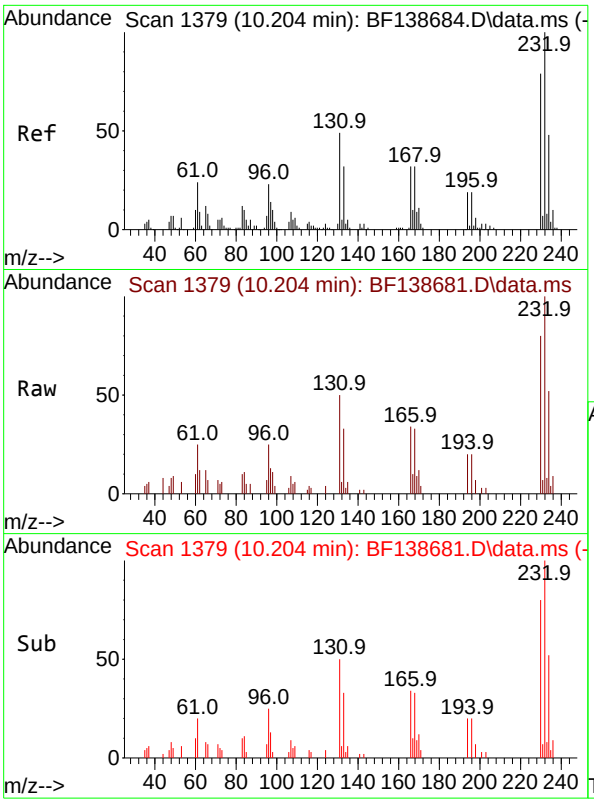




#58
Fluorene
Concen: 5.504 ng
RT: 10.428 min Scan# 1417
Delta R.T. 0.000 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:166 Resp: 54036

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 99.9 | 78.4 | 117.6 |
| 167 | 13.8 | 10.6 | 16.0 |



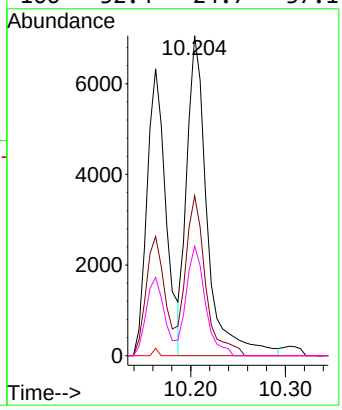


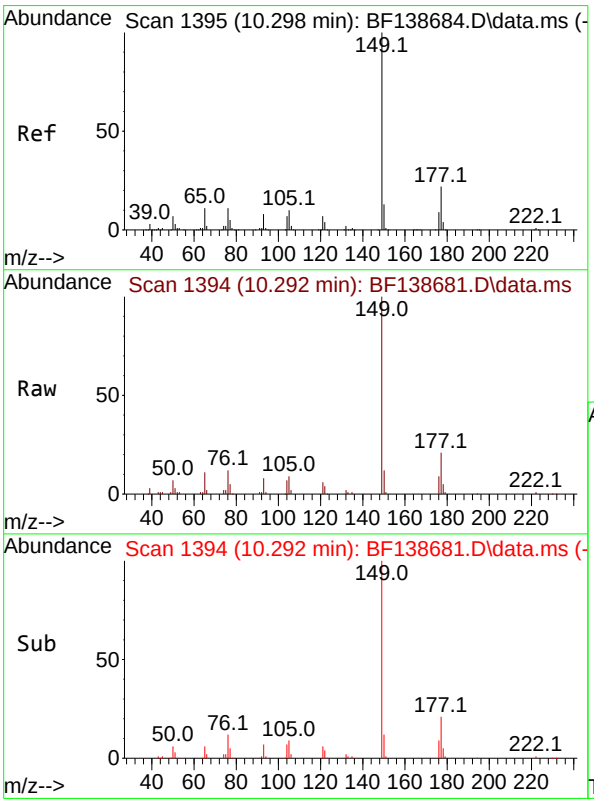

#59
2,3,4,6-Tetrachlorophenol
Concen: 4.765 ng
RT: 10.204 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

Tgt Ion:232 Resp: 10608

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 232 | 100 | | |
| 131 | 49.5 | 37.0 | 55.4 |
| 130 | 0.0 | 2.0 | 3.0# |
| 166 | 32.4 | 24.7 | 37.1 |

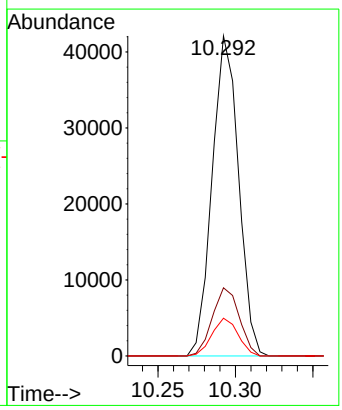


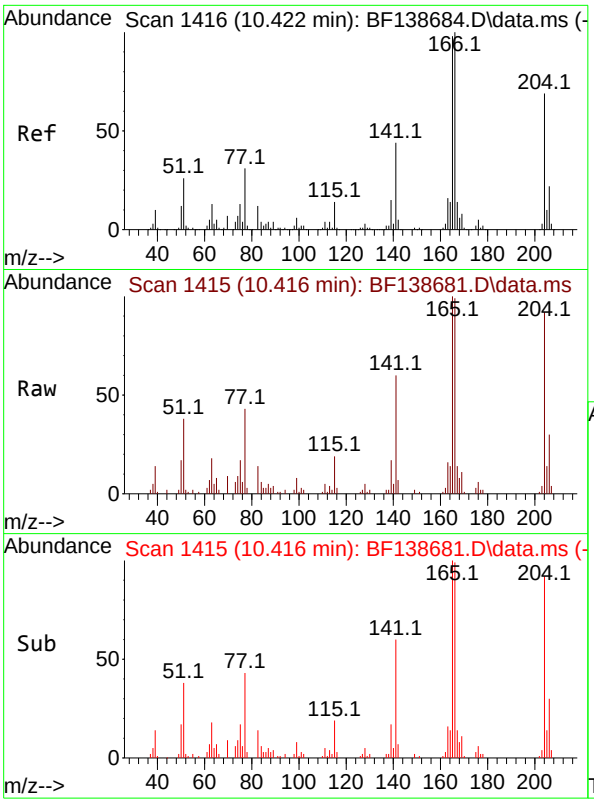




#60
Diethylphthalate
Concen: 5.228 ng
RT: 10.292 min Scan# 1394
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:149 Resp: 49851

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 177 | 21.3 | 17.8 | 26.8 |
| 150 | 11.8 | 10.1 | 15.1 |



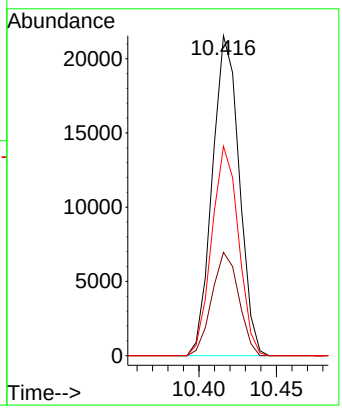


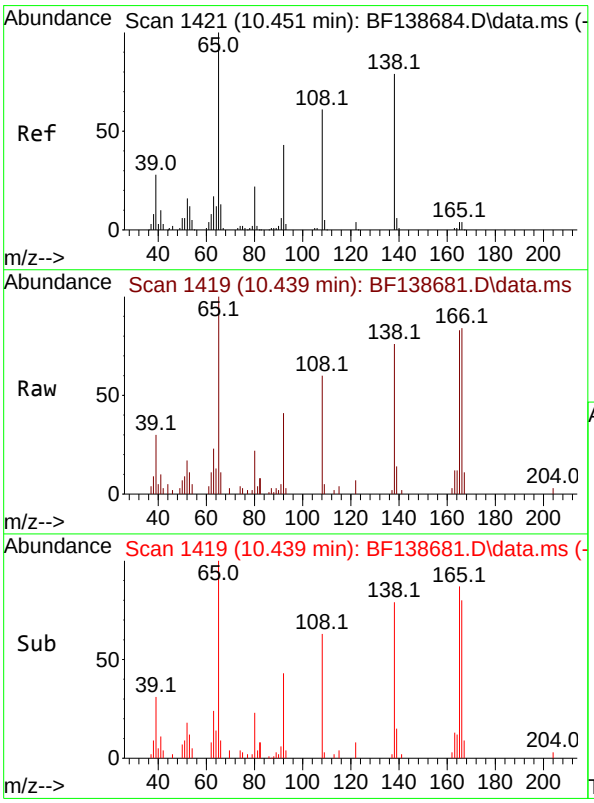

#61
4-Chlorophenyl-phenylether
Concen: 5.389 ng
RT: 10.416 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

Tgt Ion:204 Resp: 26020

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 204 | 100 | | |
| 206 | 32.3 | 26.1 | 39.1 |
| 141 | 65.5 | 51.4 | 77.0 |

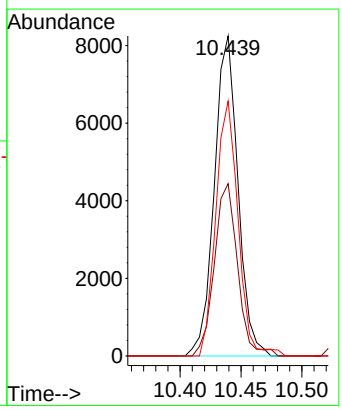


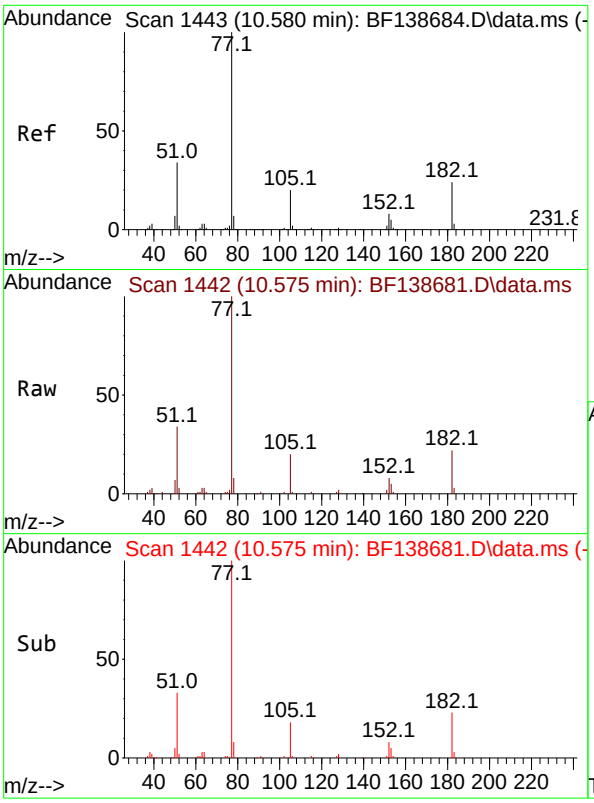




#62
4-Nitroaniline
Concen: 5.004 ng
RT: 10.439 min Scan# 1419
Delta R.T. -0.012 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:138 Resp: 11156

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 53.8 | 34.2 | 74.2 |
| 108 | 79.7 | 56.2 | 96.2 |



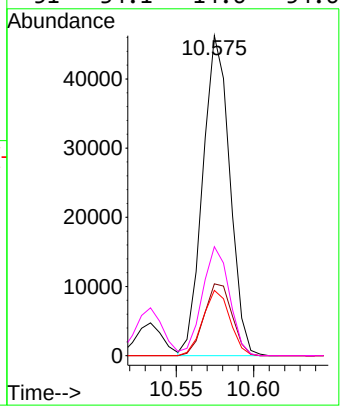


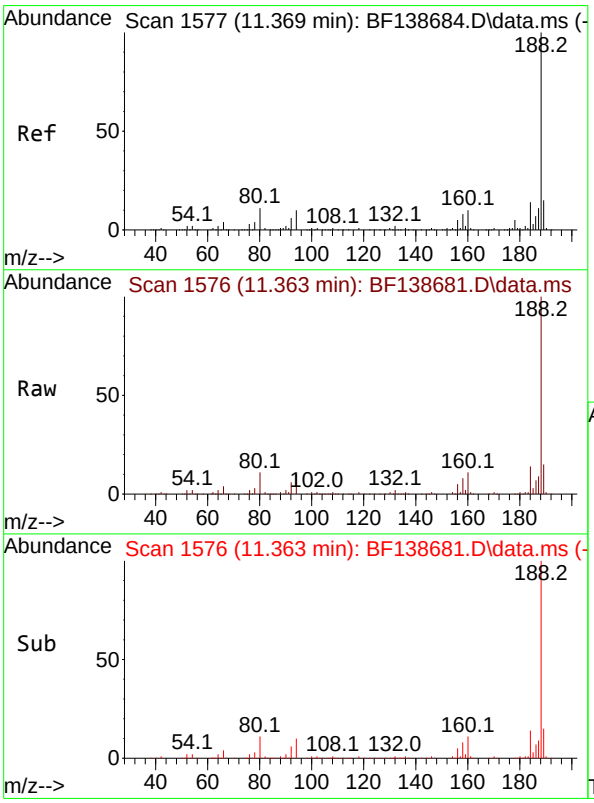

#63
Azobenzene
Concen: 5.304 ng
RT: 10.575 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

Tgt Ion: 77 Resp: 56096

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 182 | 22.5 | 3.4 | 43.4 |
| 105 | 20.4 | 0.2 | 40.2 |
| 51 | 34.1 | 14.6 | 54.6 |

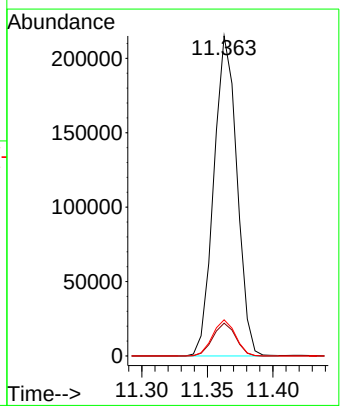


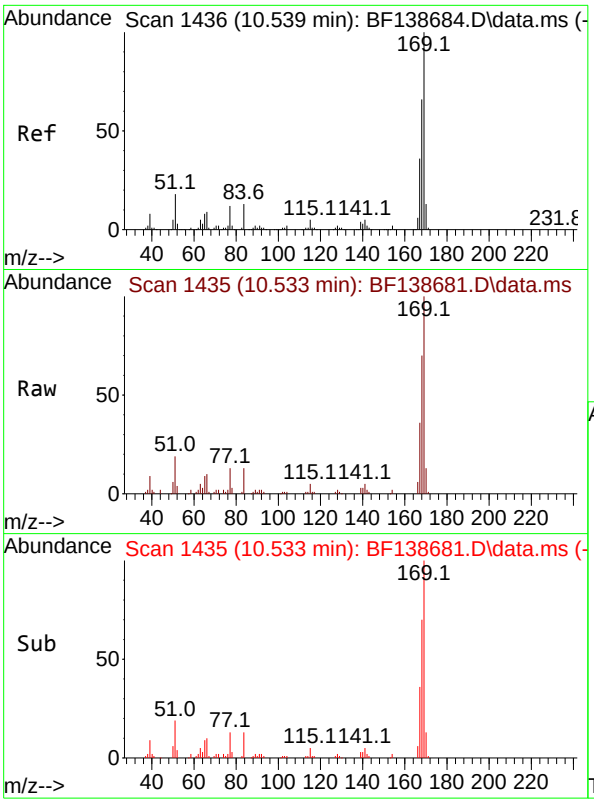




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.363 min Scan# 1576
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:188 Resp: 264044

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 10.3 | 7.6 | 11.4 |
| 80 | 11.3 | 8.6 | 12.8 |



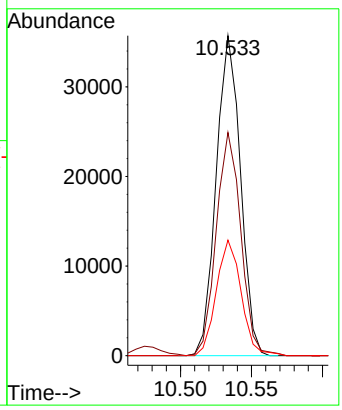


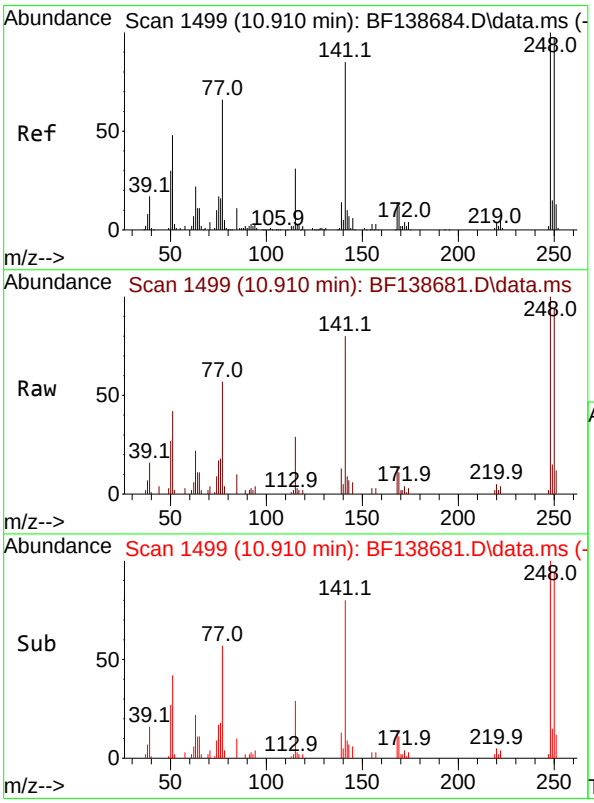

#66
n-Nitrosodiphenylamine
Concen: 5.138 ng
RT: 10.533 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

Tgt Ion:169 Resp: 42403

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 69.7 | 53.0 | 79.6 |
| 167 | 36.1 | 29.0 | 43.6 |

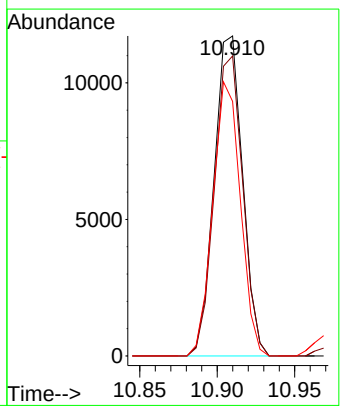


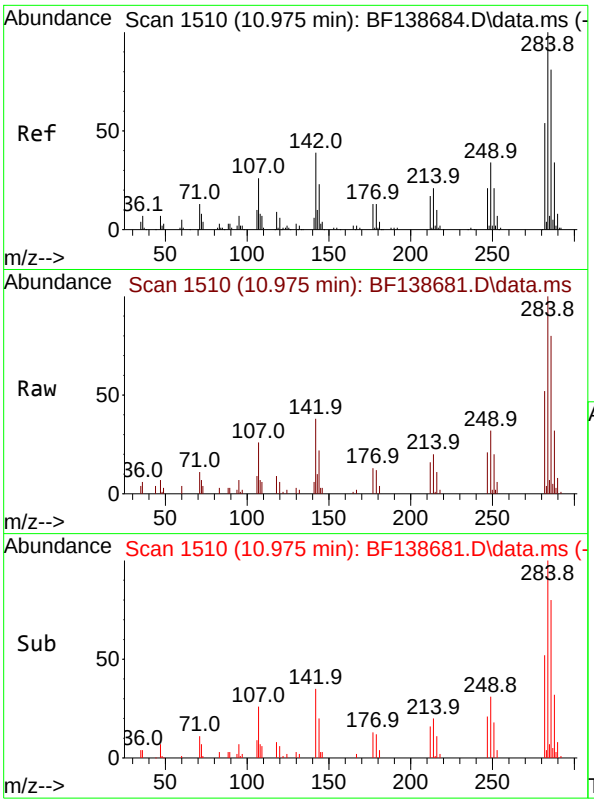




#67
4-Bromophenyl-phenylether
Concen: 5.246 ng
RT: 10.910 min Scan# 1499
Delta R.T. 0.000 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:248 Resp: 14996

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 93.7 | 77.7 | 116.5 |
| 141 | 79.6 | 68.0 | 102.0 |



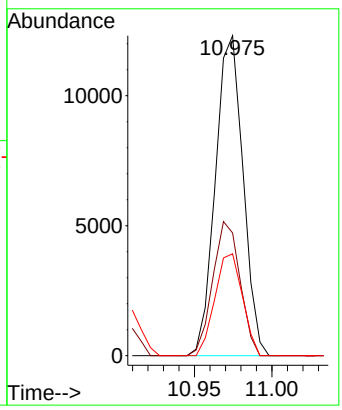


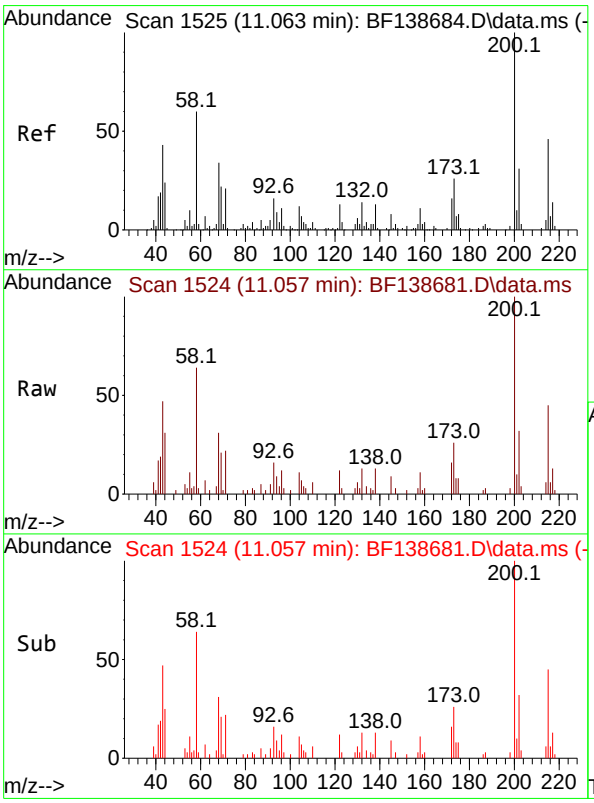

#68
Hexachlorobenzene
Concen: 5.173 ng
RT: 10.975 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

Tgt Ion:284 Resp: 15270

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 38.4 | 31.3 | 46.9 |
| 249 | 31.8 | 27.2 | 40.8 |

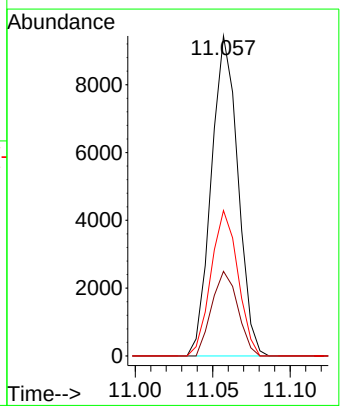


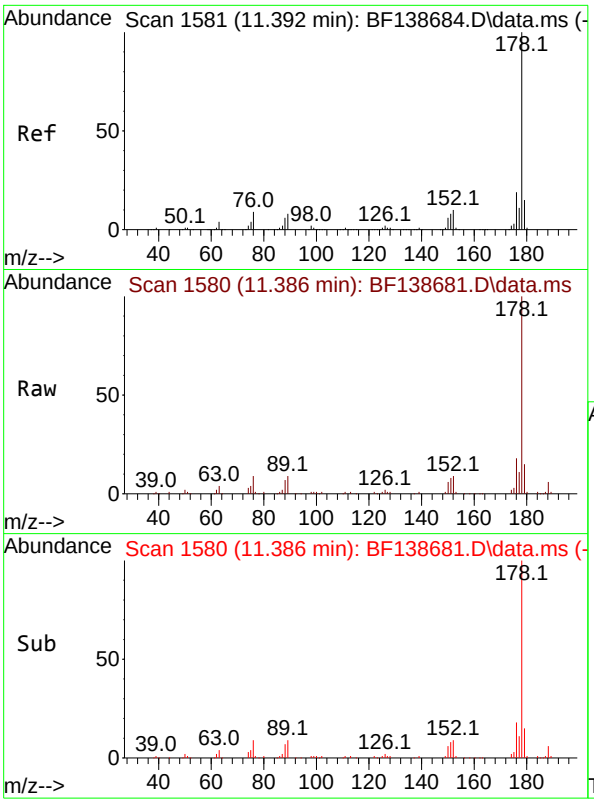




#69
Atrazine
Concen: 5.286 ng
RT: 11.057 min Scan# 1524
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:200 Resp: 11256

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 26.4 | 6.0 | 46.0 |
| 215 | 45.4 | 26.1 | 66.1 |



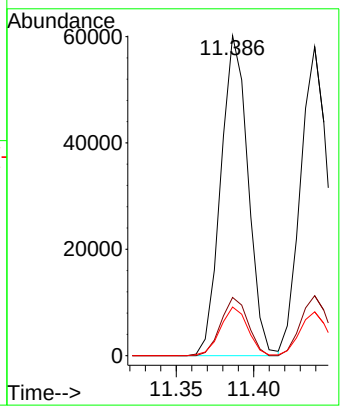


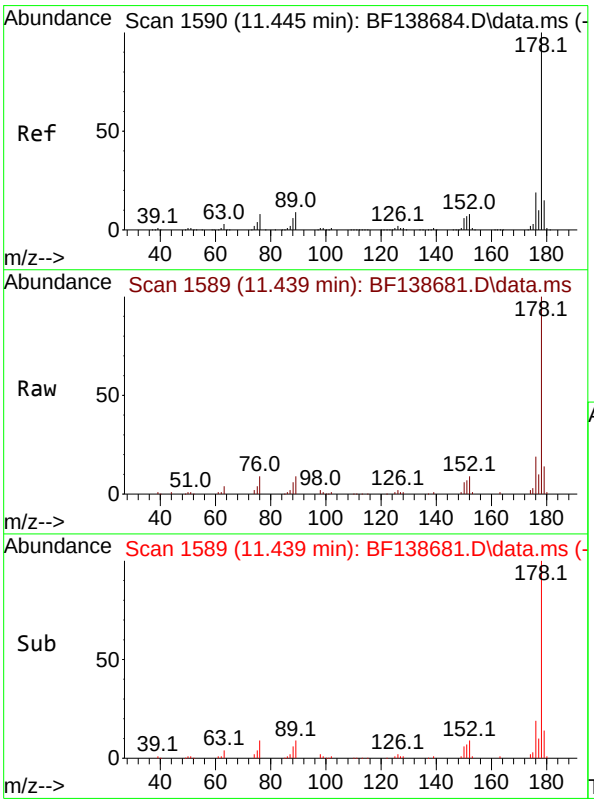

#71
Phenanthrene
Concen: 5.401 ng
RT: 11.386 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

Tgt Ion:178 Resp: 73432

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.2 | 15.4 | 23.0 |
| 179 | 15.2 | 12.2 | 18.2 |

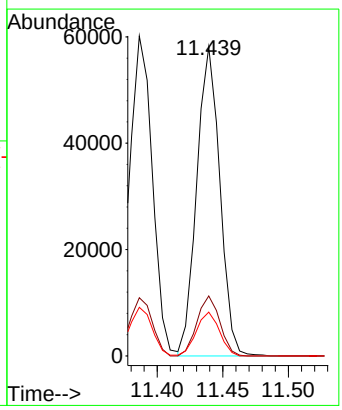


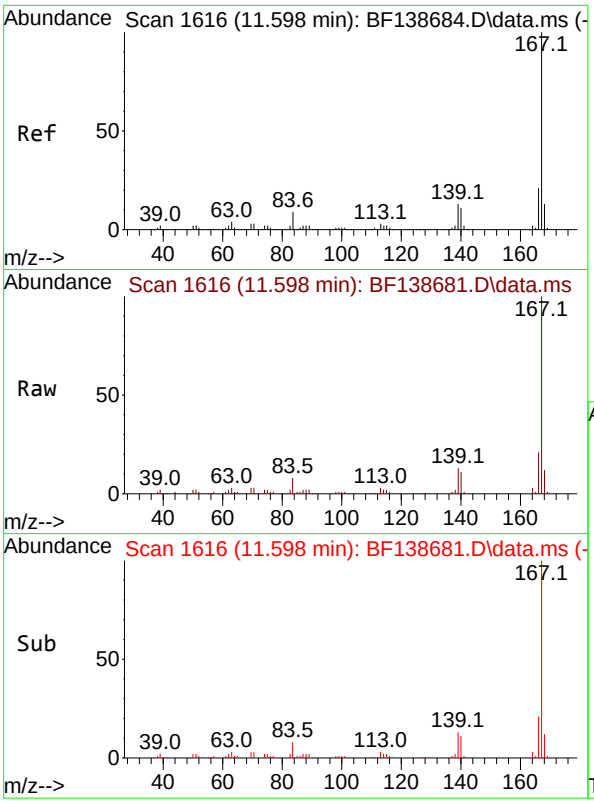




#72
Anthracene
Concen: 5.332 ng
RT: 11.439 min Scan# 1589
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:178 Resp: 71415

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.4 | 14.9 | 22.3 |
| 179 | 14.2 | 12.4 | 18.6 |



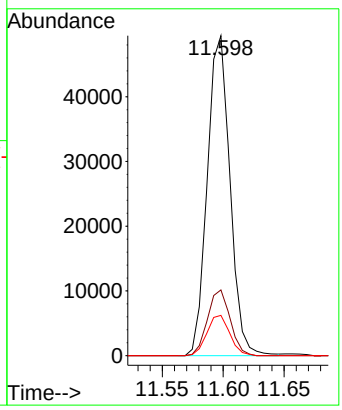


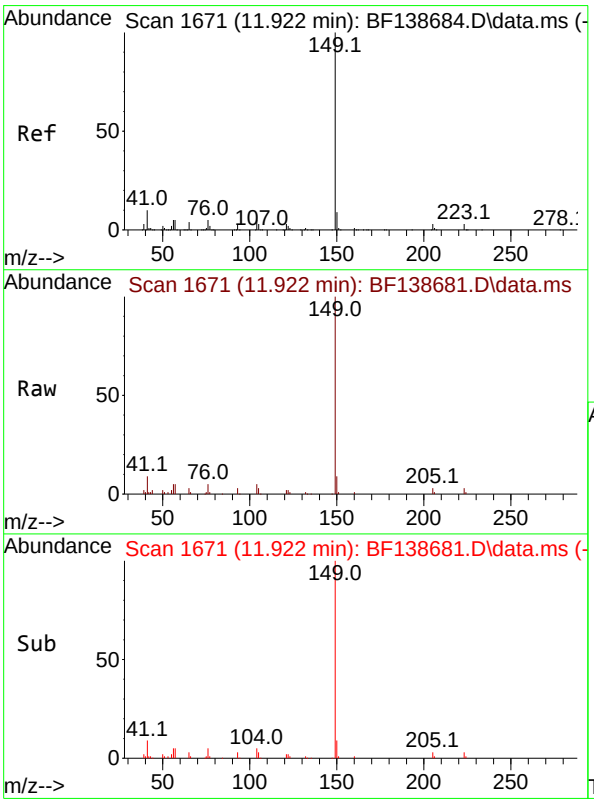

#73
Carbazole
Concen: 5.541 ng
RT: 11.598 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

Tgt Ion:167 Resp: 64031

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 20.5 | 17.2 | 25.8 |
| 139 | 12.6 | 10.6 | 16.0 |

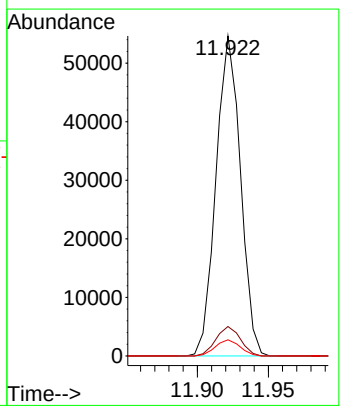


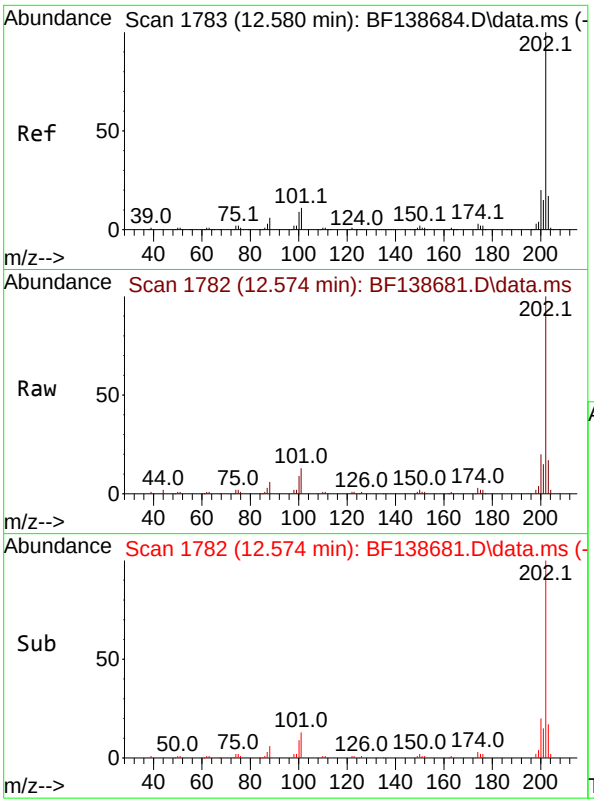




#74
Di-n-butylphthalate
Concen: 5.034 ng
RT: 11.922 min Scan# 1671
Delta R.T. 0.000 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:149 Resp: 65388

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 9.2 | 7.4 | 11.0 |
| 104 | 5.0 | 4.1 | 6.1 |



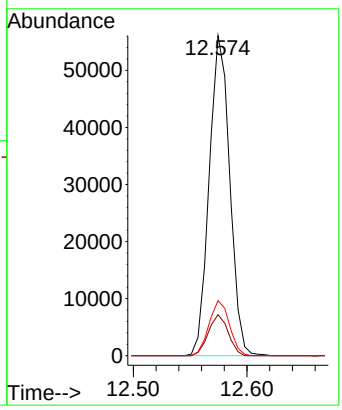


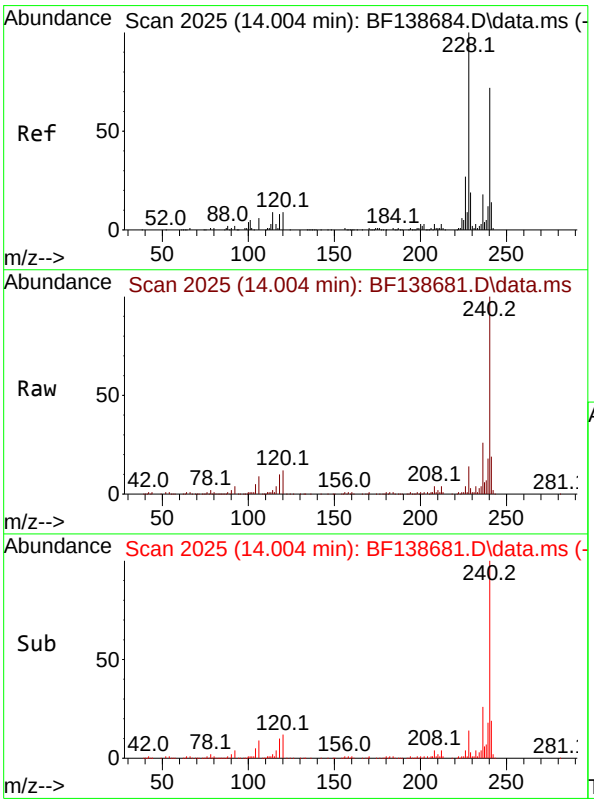

#75
Fluoranthene
Concen: 5.554 ng
RT: 12.574 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

Tgt Ion:202 Resp: 70499

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 12.8 | 0.0 | 31.2 |
| 203 | 17.2 | 0.0 | 37.3 |

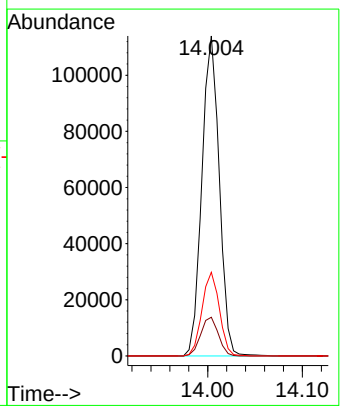


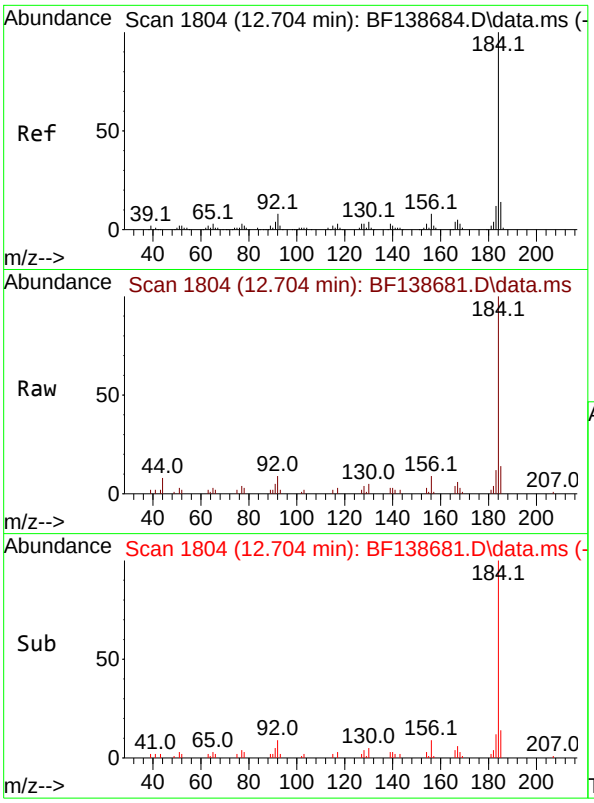




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.004 min Scan# 2025
Delta R.T. 0.000 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:240 Resp: 144971

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 12.1 | 10.2 | 15.4 |
| 236 | 26.2 | 19.8 | 29.8 |



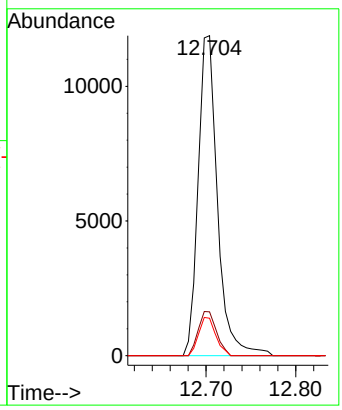


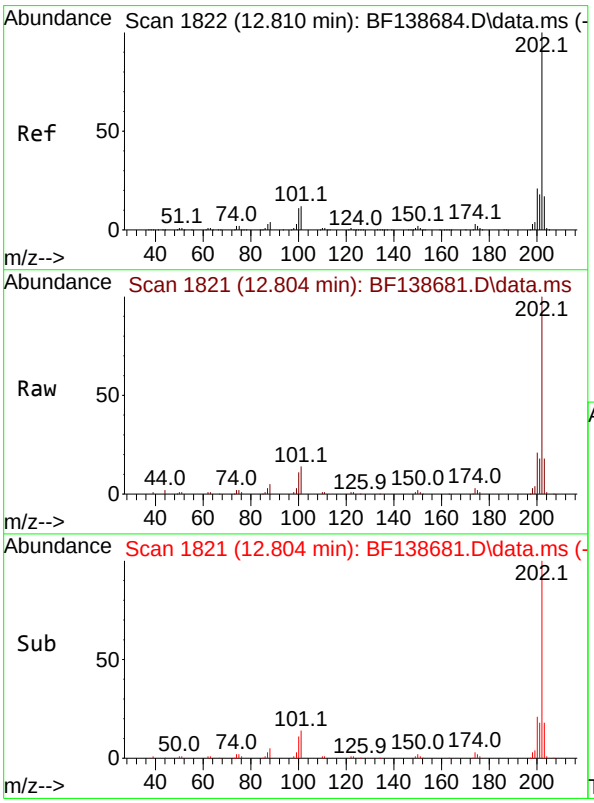

#77
Benzidine
Concen: 5.129 ng
RT: 12.704 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

Tgt Ion:184 Resp: 17784

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 185 | 13.7 | 11.1 | 16.7 |
| 183 | 11.7 | 9.6 | 14.4 |

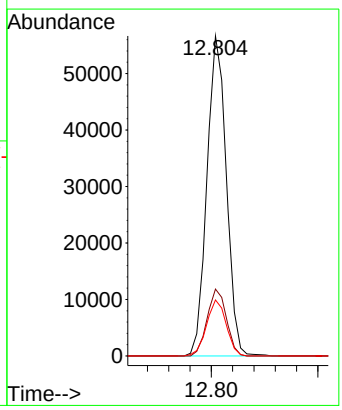


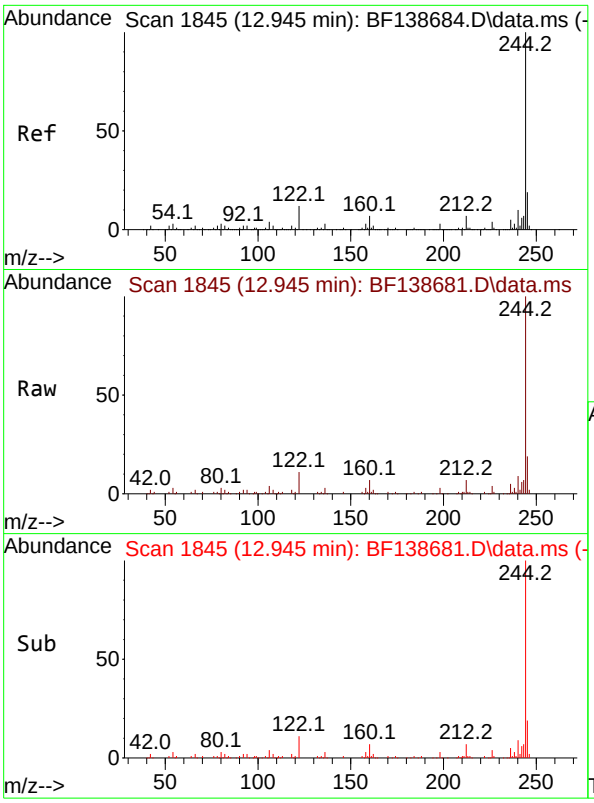




#78
Pyrene
Concen: 5.253 ng
RT: 12.804 min Scan# 1821
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:202 Resp: 71695

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.9 | 16.8 | 25.2 |
| 203 | 17.5 | 13.8 | 20.6 |



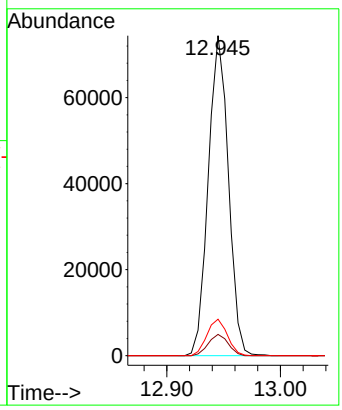


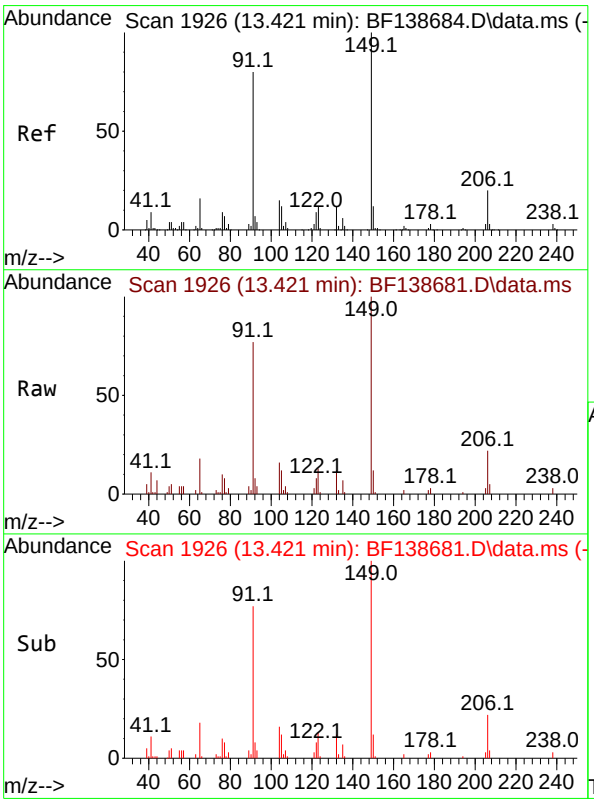

#79
Terphenyl-d14
Concen: 10.581 ng
RT: 12.945 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

Tgt Ion:244 Resp: 91621

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 6.6 | 5.4 | 8.2 |
| 122 | 11.4 | 9.6 | 14.4 |

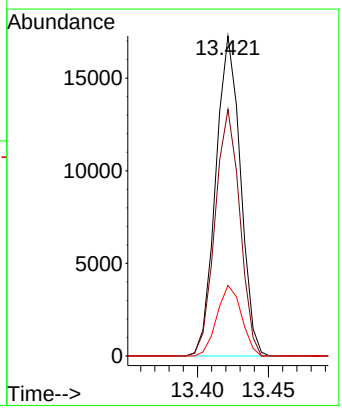


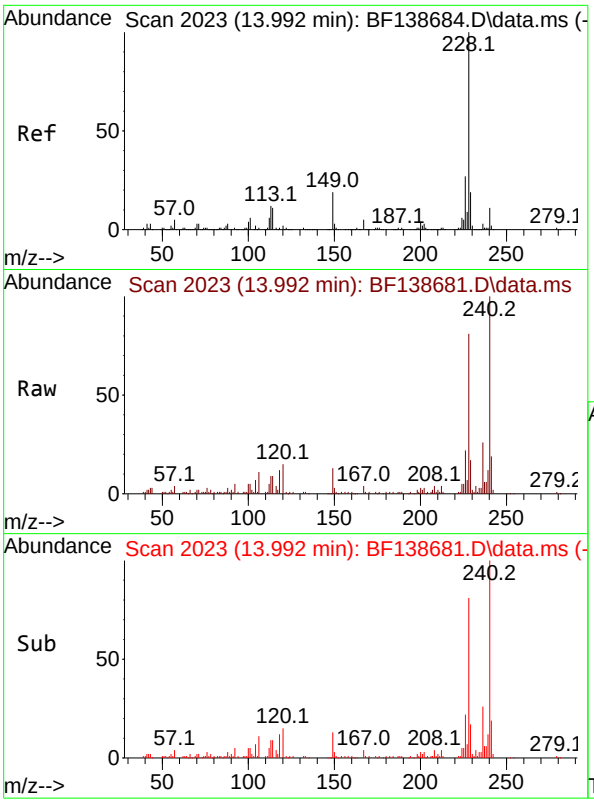




#80
Butylbenzylphthalate
Concen: 4.782 ng
RT: 13.421 min Scan# 1926
Delta R.T. 0.000 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:149 Resp: 20901

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 91 | 77.1 | 63.7 | 95.5 |
| 206 | 22.0 | 16.2 | 24.2 |



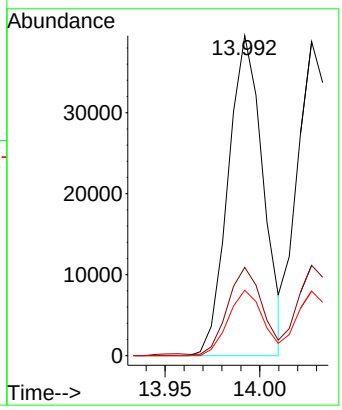


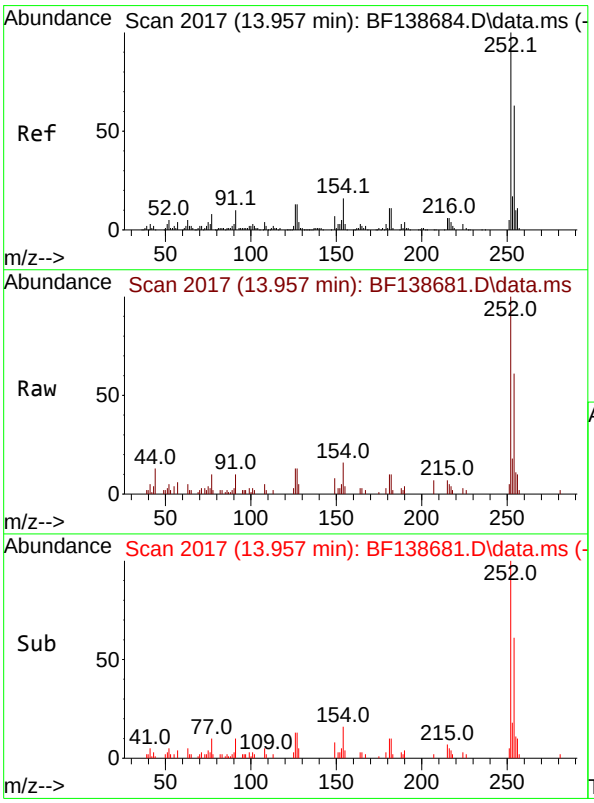

#81
Benzo(a)anthracene
Concen: 5.086 ng
RT: 13.992 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

Tgt Ion:228 Resp: 50774

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.6 | 22.1 | 33.1 |
| 229 | 20.5 | 15.4 | 23.0 |

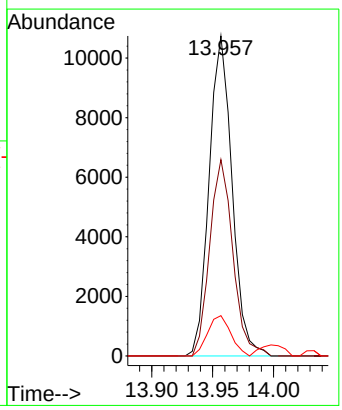


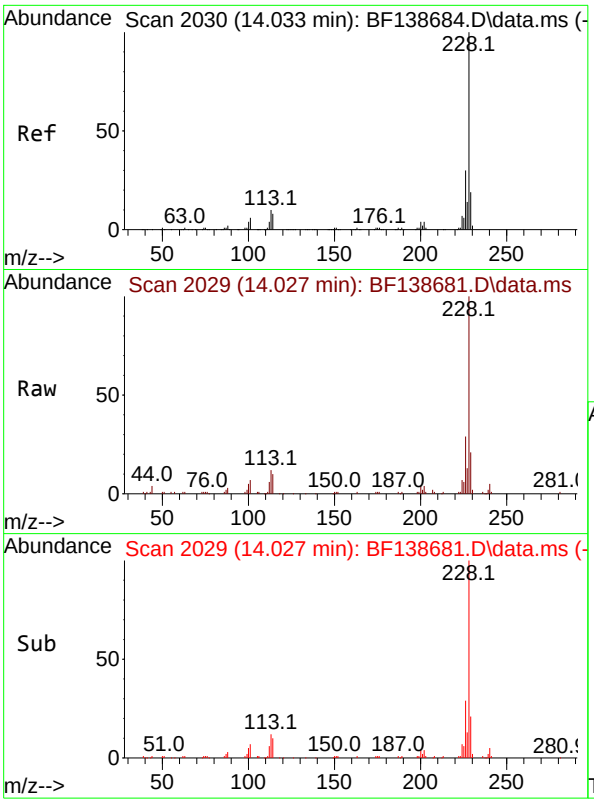




#82
3,3'-Dichlorobenzidine
Concen: 5.509 ng
RT: 13.957 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:252 Resp: 14073

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 61.3 | 50.8 | 76.2 |
| 126 | 12.6 | 10.2 | 15.2 |



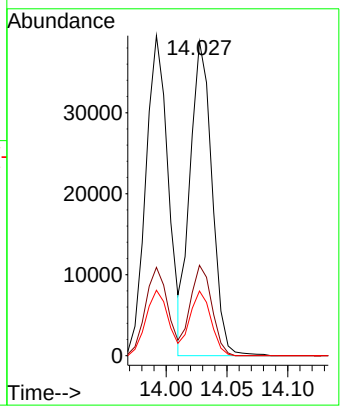


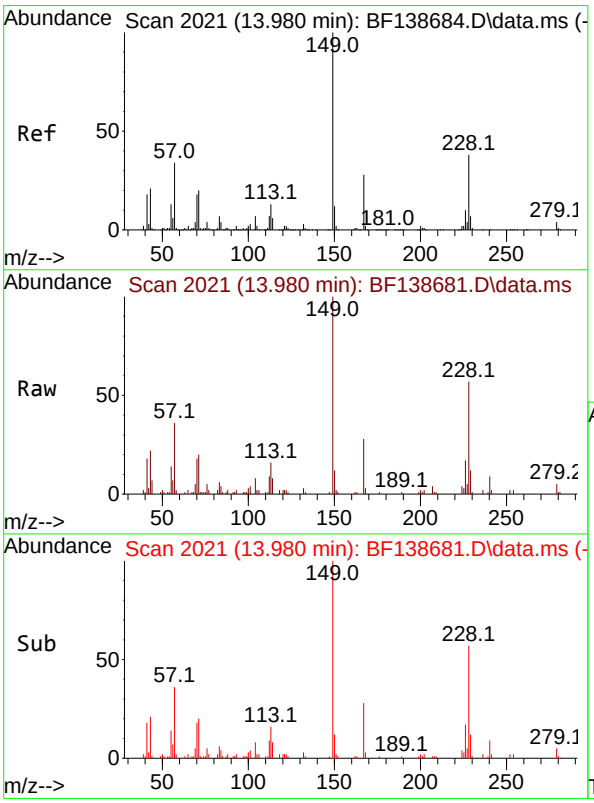

#83
Chrysene
Concen: 5.401 ng
RT: 14.027 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

Tgt Ion:228 Resp: 48647

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.8 | 23.7 | 35.5 |
| 229 | 20.6 | 15.0 | 22.6 |

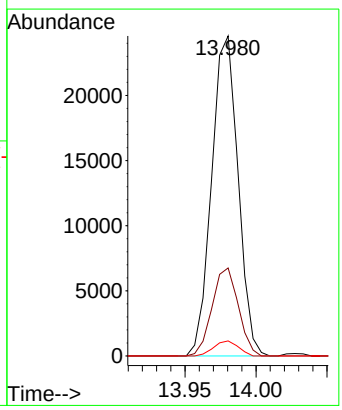


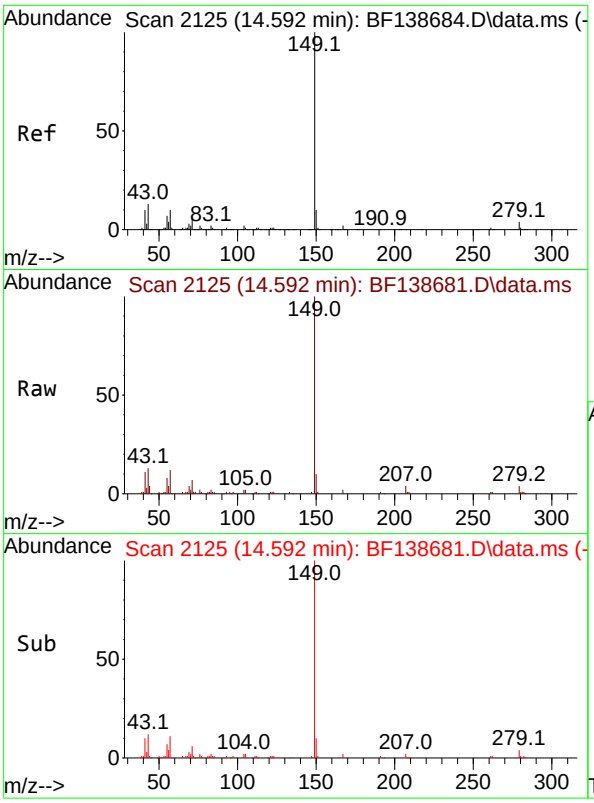




#84
Bis(2-ethylhexyl)phthalate
Concen: 4.961 ng
RT: 13.980 min Scan# 2021
Delta R.T. 0.000 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:149 Resp: 31754

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 27.5 | 22.2 | 33.4 |
| 279 | 4.7 | 3.4 | 5.0 |



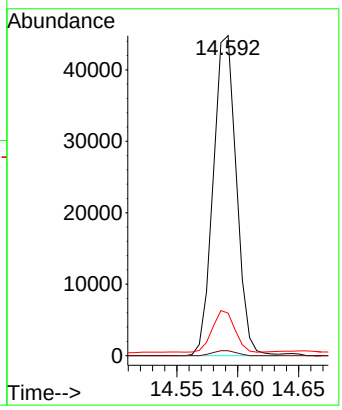


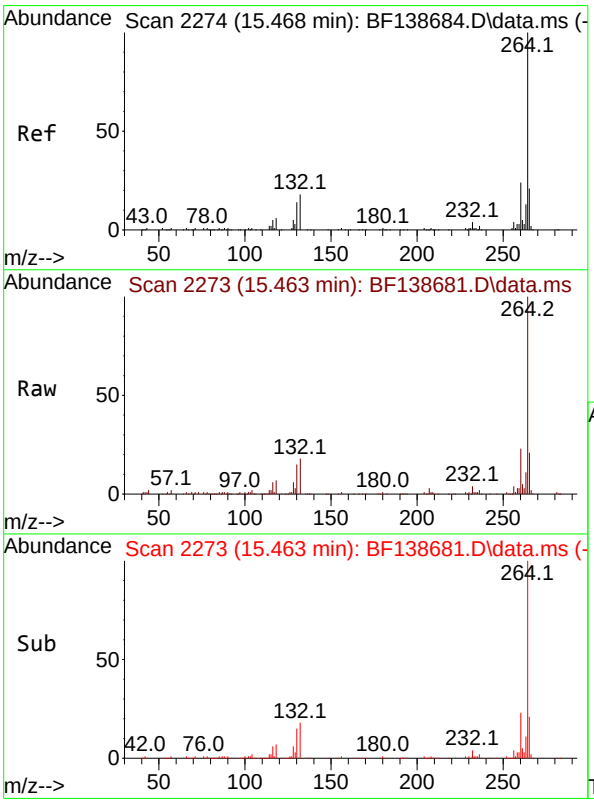

#85
Di-n-octyl phthalate
Concen: 5.011 ng
RT: 14.592 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

Tgt Ion:149 Resp: 59336

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 1.6 | 1.4 | 2.0 |
| 43 | 12.6 | 10.4 | 15.6 |

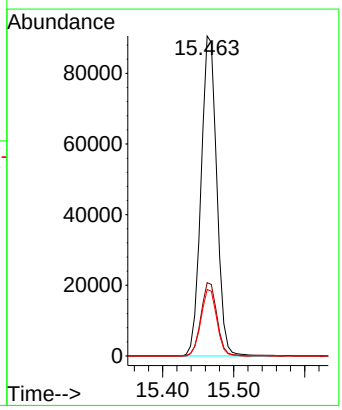


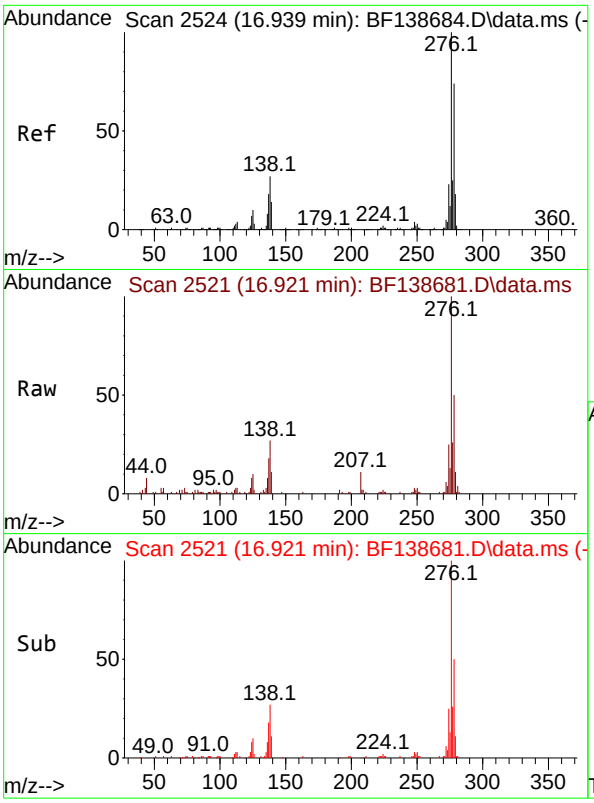




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.463 min Scan# 2273
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:264 Resp: 139476

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 22.9 | 19.0 | 28.6 |
| 265 | 20.7 | 17.0 | 25.6 |



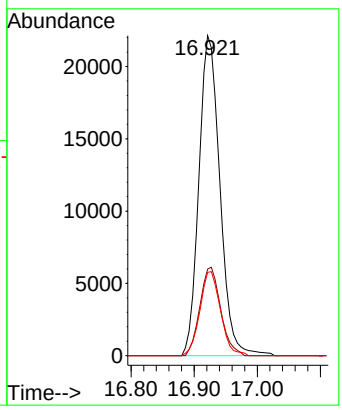


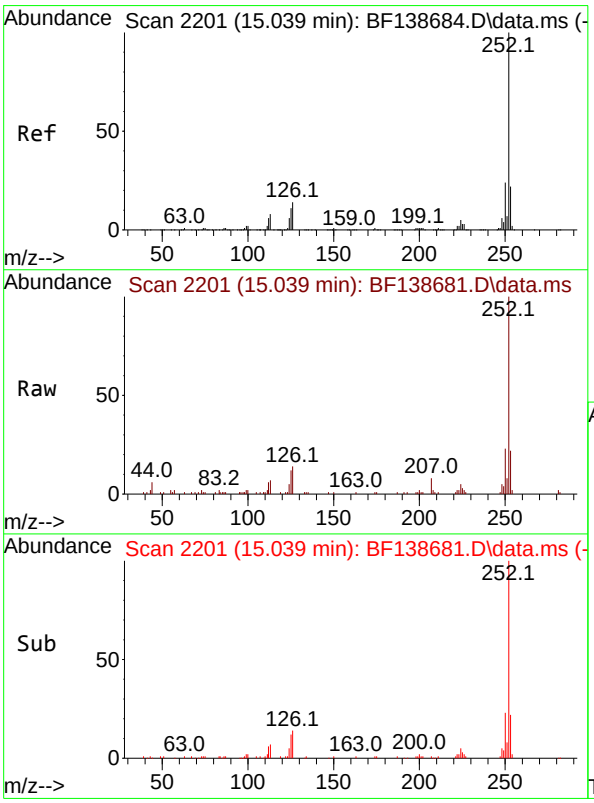

#87
Indeno(1,2,3-cd)pyrene
Concen: 5.126 ng
RT: 16.921 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

Tgt Ion:276 Resp: 51232

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 27.3 | 21.8 | 32.8 |
| 277 | 25.7 | 20.6 | 30.8 |

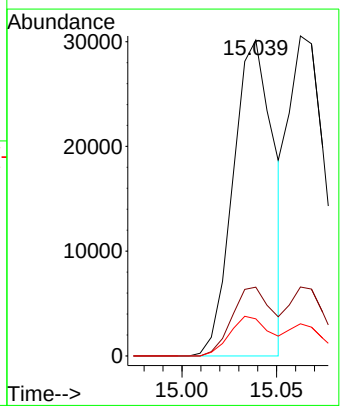


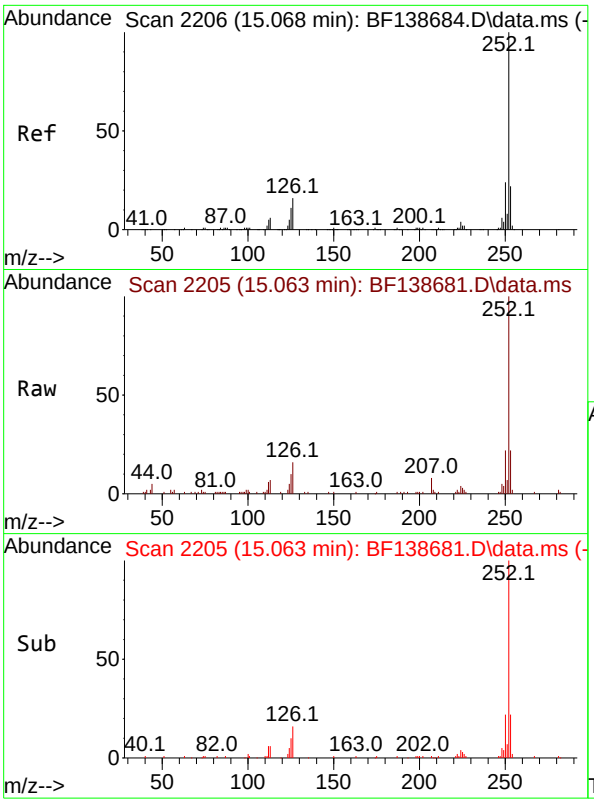




#88
Benzo(b)fluoranthene
Concen: 5.188 ng
RT: 15.039 min Scan# 2201
Delta R.T. 0.000 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:252 Resp: 44859

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.8 | 17.5 | 26.3 |
| 125 | 11.7 | 8.9 | 13.3 |



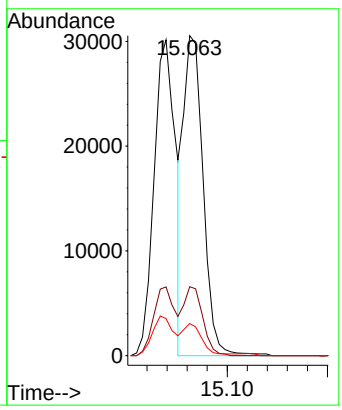


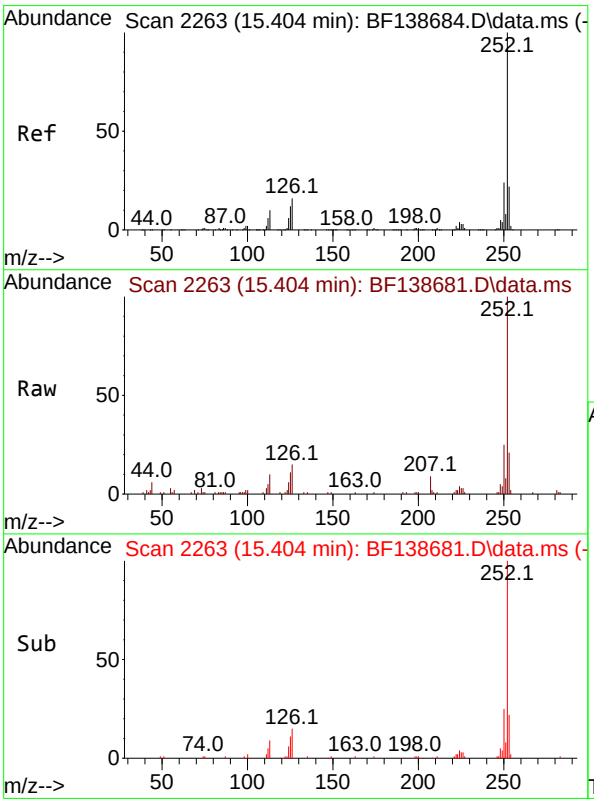

#89
Benzo(k)fluoranthene
Concen: 5.600 ng
RT: 15.063 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

Tgt Ion:252 Resp: 41920

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.5 | 17.4 | 26.0 |
| 125 | 10.1 | 8.6 | 13.0 |

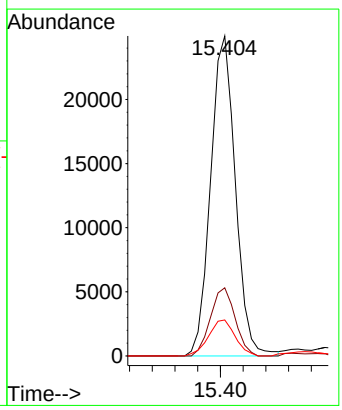


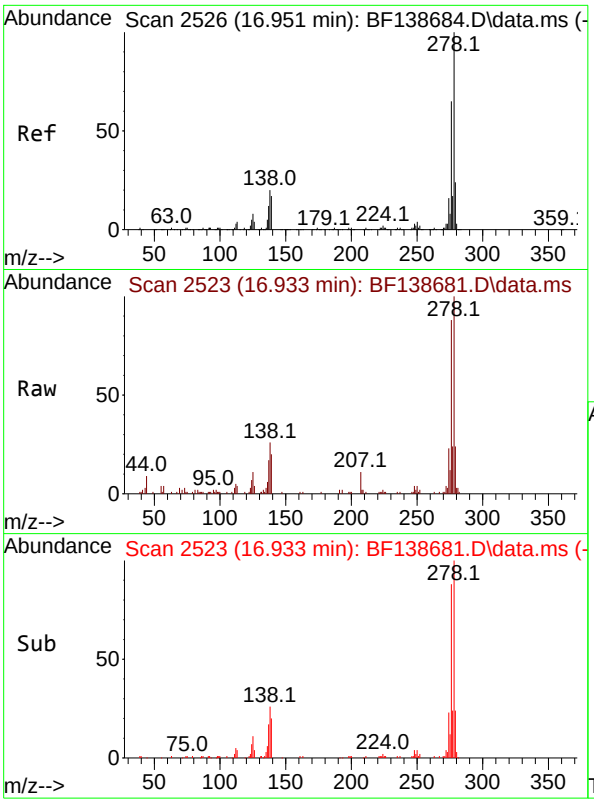




#90
Benzo(a)pyrene
Concen: 5.199 ng
RT: 15.404 min Scan# 2263
Delta R.T. 0.000 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:252 Resp: 37810

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.3 | 17.3 | 25.9 |
| 125 | 11.2 | 9.5 | 14.3 |



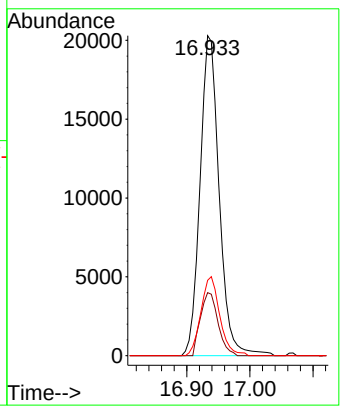


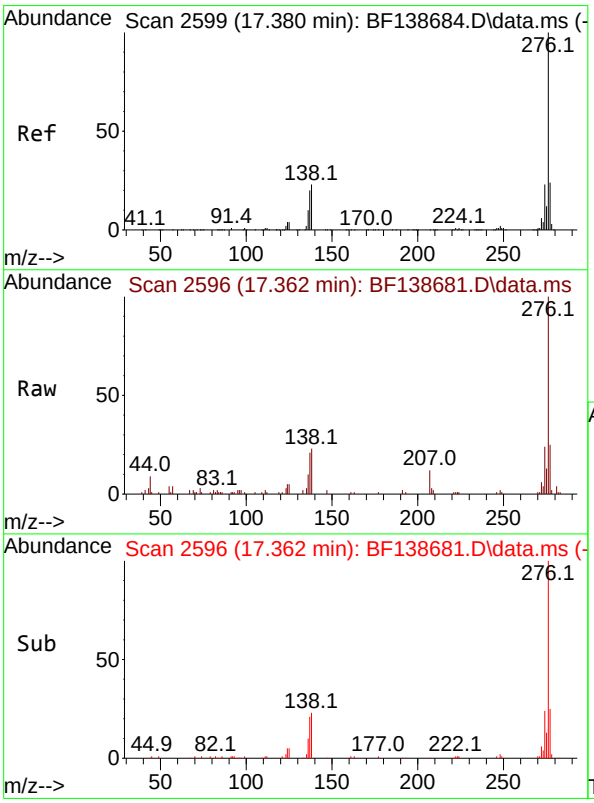

#91
Dibenzo(a,h)anthracene
Concen: 5.209 ng
RT: 16.933 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

Tgt Ion:278 Resp: 42736

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 19.7 | 14.0 | 21.0 |
| 279 | 23.5 | 19.0 | 28.4 |

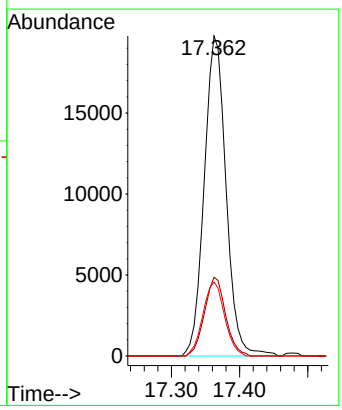



#92
Benzo(g,h,i)perylene
Concen: 5.165 ng
RT: 17.362 min Scan# 2596
Delta R.T. -0.018 min
Lab File: BF138681.D
Acq: 30 Jul 2024 13:25

Tgt Ion:276 Resp: 43978

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 24.6 | 19.0 | 28.4 |
| 138 | 23.1 | 18.5 | 27.7 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138682.D
Acq On : 30 Jul 2024 13:56
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 30 17:42:53 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:38:59 2024
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.845 | 152 | 73349 | 20.000 | ng | | 0.00 |
| 21) Naphthalene-d8 | 8.128 | 136 | 297904 | 20.000 | ng | | 0.00 |
| 39) Acenaphthene-d10 | 9.880 | 164 | 162245 | 20.000 | ng | | 0.00 |
| 64) Phenanthrene-d10 | 11.369 | 188 | 269225 | 20.000 | ng | | 0.00 |
| 76) Chrysene-d12 | 14.004 | 240 | 146258 | 20.000 | ng | | 0.00 |
| 86) Perylene-d12 | 15.468 | 264 | 137026 | 20.000 | ng | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.469 | 112 | 100297 | 21.108 | ng | | 0.00 |
| 7) Phenol-d6 | 6.475 | 99 | 133232 | 20.884 | ng | | -0.01 |
| 23) Nitrobenzene-d5 | 7.404 | 82 | 123997 | 20.350 | ng | | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.669 | 330 | 26595 | 20.011 | ng | | 0.00 |
| 45) 2-Fluorobiphenyl | 9.198 | 172 | 231000 | 21.392 | ng | | 0.00 |
| 79) Terphenyl-d14 | 12.945 | 244 | 185079 | 21.187 | ng | | 0.00 |
| **Target Compounds** | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.593 | 88 | 20339 | 9.777 | ng | | 95 |
| 3) Pyridine | 3.357 | 79 | 50057 | 9.933 | ng | | 98 |
| 4) n-Nitrosodimethylamine | 3.287 | 42 | 29962 | 9.983 | ng | # | 98 |
| 6) Aniline | 6.504 | 93 | 59629 | 10.481 | ng | | 94 |
| 8) 2-Chlorophenol | 6.628 | 128 | 51997 | 10.401 | ng | | 97 |
| 9) Benzaldehyde | 6.398 | 77 | 41047 | 10.733 | ng | | 99 |
| 10) Phenol | 6.492 | 94 | 71371 | 10.626 | ng | | 92 |
| 11) bis(2-Chloroethyl)ether | 6.575 | 93 | 54121 | 10.471 | ng | | 99 |
| 12) 1,3-Dichlorobenzene | 6.787 | 146 | 59006 | 10.544 | ng | | 98 |
| 13) 1,4-Dichlorobenzene | 6.863 | 146 | 59226 | 10.487 | ng | | 97 |
| 14) 1,2-Dichlorobenzene | 7.016 | 146 | 55425 | 10.501 | ng | | 98 |
| 15) Benzyl Alcohol | 6.987 | 79 | 47206 | 10.267 | ng | | 99 |
| 16) 2,2'-oxybis(1-Chloropr... | 7.116 | 45 | 94469 | 10.620 | ng | | 97 |
| 17) 2-Methylphenol | 7.098 | 107 | 42323 | 10.252 | ng | | 97 |
| 18) Hexachloroethane | 7.351 | 117 | 22530 | 10.598 | ng | | 97 |
| 19) n-Nitroso-di-n-propyla... | 7.245 | 70 | 39862 | 10.345 | ng | | 99 |
| 20) 3+4-Methylphenols | 7.251 | 107 | 56989 | 10.760 | ng | | 97 |
| 22) Acetophenone | 7.251 | 105 | 75892 | 10.404 | ng | | 99 |
| 24) Nitrobenzene | 7.422 | 77 | 63020 | 10.164 | ng | | 98 |
| 25) Isophorone | 7.663 | 82 | 105784 | 10.167 | ng | | 99 |
| 26) 2-Nitrophenol | 7.739 | 139 | 26149 | 9.803 | ng | | 96 |
| 27) 2,4-Dimethylphenol | 7.781 | 122 | 32386 | 10.147 | ng | | 98 |
| 28) bis(2-Chloroethoxy)met... | 7.875 | 93 | 64569 | 10.191 | ng | | 99 |
| 29) 2,4-Dichlorophenol | 7.987 | 162 | 41138 | 10.031 | ng | | 99 |
| 30) 1,2,4-Trichlorobenzene | 8.063 | 180 | 48272 | 10.199 | ng | | 98 |
| 31) Naphthalene | 8.145 | 128 | 164167 | 10.469 | ng | | 99 |
| 32) Benzoic acid | 7.875 | 122 | 20318m | 8.102 | ng | | |
| 33) 4-Chloroaniline | 8.198 | 127 | 54003 | 10.260 | ng | | 98 |
| 34) Hexachlorobutadiene | 8.263 | 225 | 29309 | 10.224 | ng | | 98 |
| 35) Caprolactam | 8.539 | 113 | 12474 | 10.193 | ng | | 93 |
| 36) 4-Chloro-3-methylphenol | 8.681 | 107 | 47584 | 10.152 | ng | | 96 |
| 37) 2-Methylnaphthalene | 8.839 | 142 | 104097 | 10.511 | ng | | 99 |
| 38) 1-Methylnaphthalene | 8.934 | 142 | 102100 | 10.521 | ng | | 100 |
| 40) 1,2,4,5-Tetrachloroben... | 9.004 | 216 | 45439 | 10.082 | ng | | 98 |
| 41) Hexachlorocyclopentadiene | 8.986 | 237 | 5161 | 10.915 | ng | | 96 |
| 43) 2,4,6-Trichlorophenol | 9.116 | 196 | 27439 | 9.985 | ng | | 98 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138682.D
Acq On : 30 Jul 2024 13:56
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 30 17:42:53 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:38:59 2024
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 9.163 | 196 | 30782 | 10.247 | ng | | 97 |
| 46) 1,1'-Biphenyl | 9.298 | 154 | 132668 | 10.441 | ng | | 99 |
| 47) 2-Chloronaphthalene | 9.328 | 162 | 97850 | 10.354 | ng | | 97 |
| 48) 2-Nitroaniline | 9.422 | 65 | 32731 | 10.216 | ng | | 97 |
| 49) Acenaphthylene | 9.739 | 152 | 141438 | 10.552 | ng | | 99 |
| 50) Dimethylphthalate | 9.598 | 163 | 105187 | 10.139 | ng | | 100 |
| 51) 2,6-Dinitrotoluene | 9.663 | 165 | 23351 | 9.974 | ng | | 95 |
| 52) Acenaphthene | 9.910 | 154 | 95143 | 10.560 | ng | | 98 |
| 53) 3-Nitroaniline | 9.833 | 138 | 24353 | 10.062 | ng | | 99 |
| 54) 2,4-Dinitrophenol | 9.951 | 184 | 7908 | 7.337 | ng | | 88 |
| 55) Dibenzofuran | 10.080 | 168 | 136302 | 10.717 | ng | | 99 |
| 56) 4-Nitrophenol | 10.004 | 139 | 12643 | 8.687 | ng | | 95 |
| 57) 2,4-Dinitrotoluene | 10.069 | 165 | 30462 | 10.198 | ng | | 99 |
| 58) Fluorene | 10.428 | 166 | 107585 | 10.622 | ng | | 100 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.204 | 232 | 22672 | 9.872 | ng | # | 94 |
| 60) Diethylphthalate | 10.298 | 149 | 102108 | 10.381 | ng | | 99 |
| 61) 4-Chlorophenyl-phenyle... | 10.416 | 204 | 53870 | 10.814 | ng | | 99 |
| 62) 4-Nitroaniline | 10.439 | 138 | 23653 | 10.284 | ng | | 98 |
| 63) Azobenzene | 10.575 | 77 | 112880 | 10.347 | ng | | 99 |
| 65) 4,6-Dinitro-2-methylph... | 10.475 | 198 | 14344 | 8.733 | ng | | 96 |
| 66) n-Nitrosodiphenylamine | 10.533 | 169 | 86813 | 10.316 | ng | | 100 |
| 67) 4-Bromophenyl-phenylether | 10.910 | 248 | 29510 | 10.124 | ng | | 98 |
| 68) Hexachlorobenzene | 10.975 | 284 | 31049 | 10.317 | ng | | 96 |
| 69) Atrazine | 11.063 | 200 | 23189 | 10.680 | ng | | 96 |
| 70) Pentachlorophenol | 11.175 | 266 | 10392 | 7.661 | ng | | 93 |
| 71) Phenanthrene | 11.392 | 178 | 149253 | 10.766 | ng | | 99 |
| 72) Anthracene | 11.439 | 178 | 145043 | 10.620 | ng | | 99 |
| 73) Carbazole | 11.598 | 167 | 126321 | 10.721 | ng | | 100 |
| 74) Di-n-butylphthalate | 11.922 | 149 | 133246 | 10.060 | ng | | 99 |
| 75) Fluoranthene | 12.580 | 202 | 140690 | 10.871 | ng | | 99 |
| 77) Benzidine | 12.704 | 184 | 35263 | 10.080 | ng | | 100 |
| 78) Pyrene | 12.810 | 202 | 143221 | 10.400 | ng | | 99 |
| 80) Butylbenzylphthalate | 13.421 | 149 | 41771 | 9.472 | ng | | 99 |
| 81) Benzo(a)anthracene | 13.998 | 228 | 105185 | 10.444 | ng | | 97 |
| 82) 3,3'-Dichlorobenzidine | 13.957 | 252 | 26584 | 10.314 | ng | | 98 |
| 83) Chrysene | 14.033 | 228 | 89780 | 9.881 | ng | | 99 |
| 84) Bis(2-ethylhexyl)phtha... | 13.980 | 149 | 61314 | 9.495 | ng | | 98 |
| 85) Di-n-octyl phthalate | 14.592 | 149 | 111460 | 9.329 | ng | | 100 |
| 87) Indeno(1,2,3-cd)pyrene | 16.933 | 276 | 100310 | 10.215 | ng | | 99 |
| 88) Benzo(b)fluoranthene | 15.039 | 252 | 93263 | 10.980 | ng | | 99 |
| 89) Benzo(k)fluoranthene | 15.068 | 252 | 71464 | 9.717 | ng | | 99 |
| 90) Benzo(a)pyrene | 15.404 | 252 | 71724 | 10.038 | ng | | 98 |
| 91) Dibenzo(a,h)anthracene | 16.945 | 278 | 84356 | 10.465 | ng | | 97 |
| 92) Benzo(g,h,i)perylene | 17.374 | 276 | 84564 | 10.110 | ng | | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

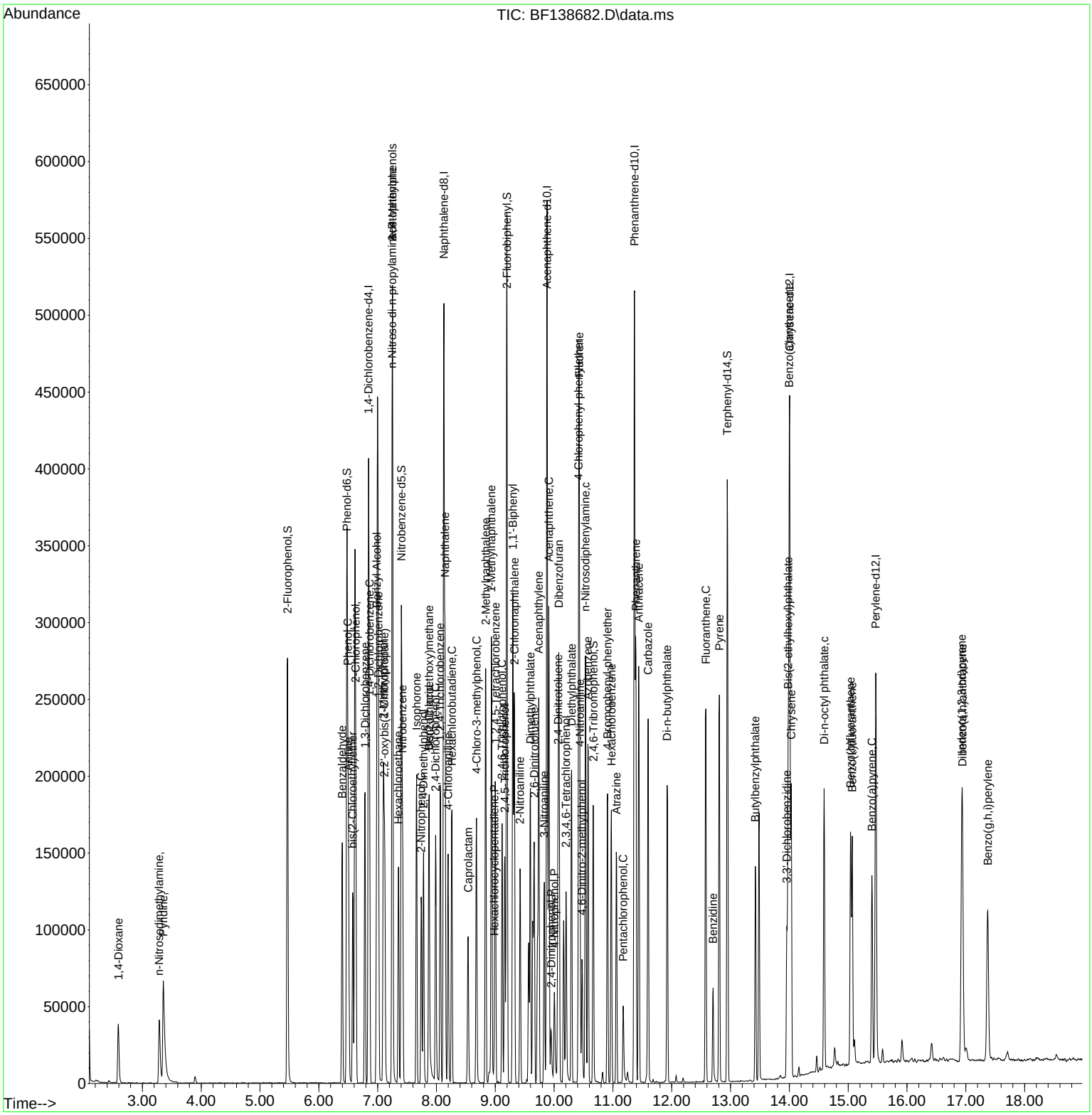
ICAL Form

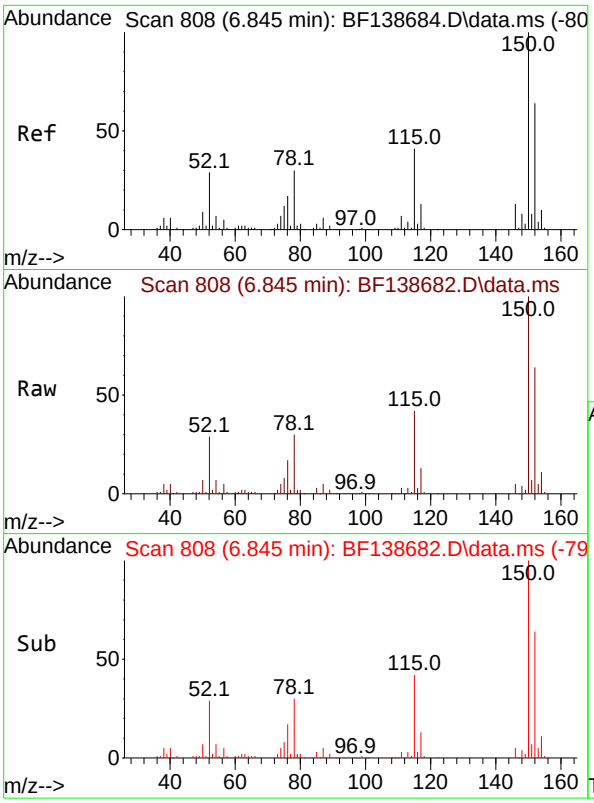
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138682.D
Acq On : 30 Jul 2024 13:56
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 30 17:42:53 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:38:59 2024
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024

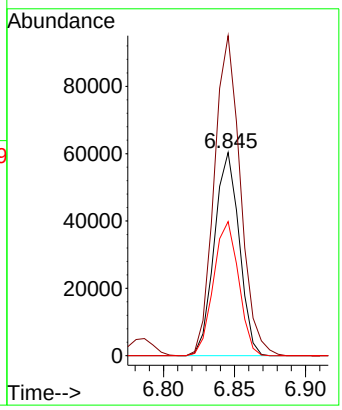





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.845 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:152 Resp: 7334

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 157.4 | 126.0 | 189.0 |
| 115 | 66.0 | 51.7 | 77.5 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations APPROVED**

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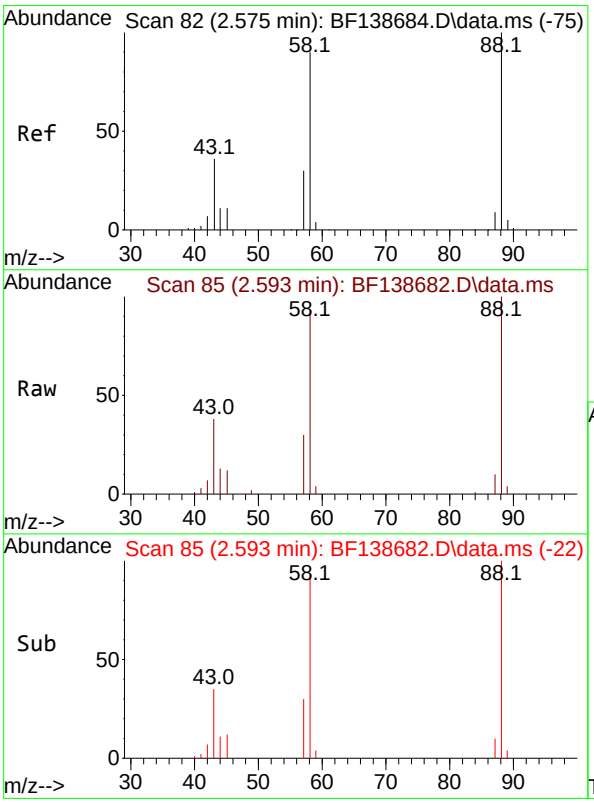
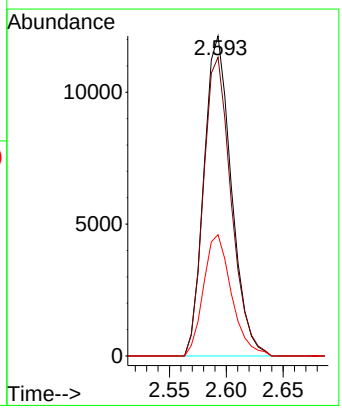
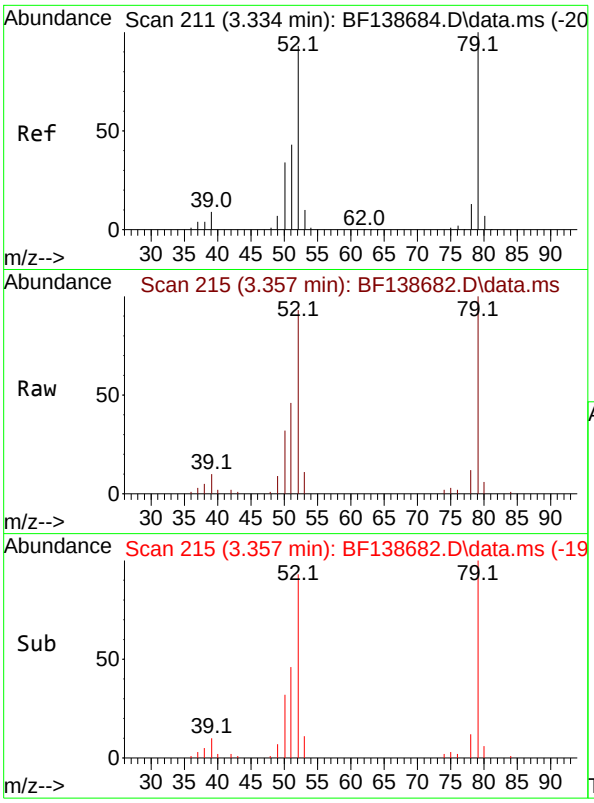



#2
1,4-Dioxane
Concen: 9.777 ng
RT: 2.593 min Scan# 85
Delta R.T. 0.018 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion: 88 Resp: 20339

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 94.3 | 71.6 | 107.4 |
| 43 | 38.8 | 28.7 | 43.1 |






#3
Pyridine
Concen: 9.933 ng
RT: 3.357 min Scan# 21
Delta R.T. 0.024 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

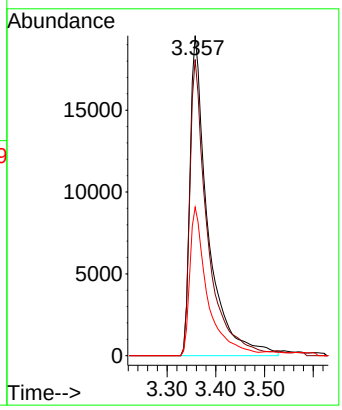
Tgt Ion: 79 Resp: 5005

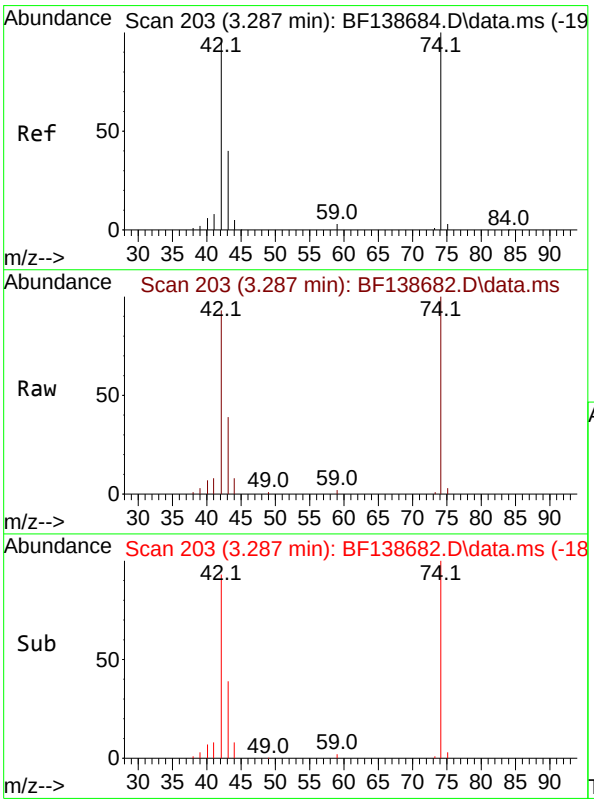
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 92.6 | 74.7 | 112.1 |
| 51 | 46.4 | 34.6 | 51.8 |

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024

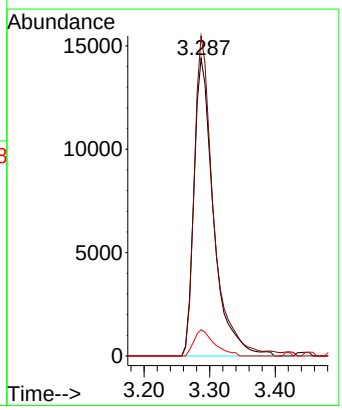


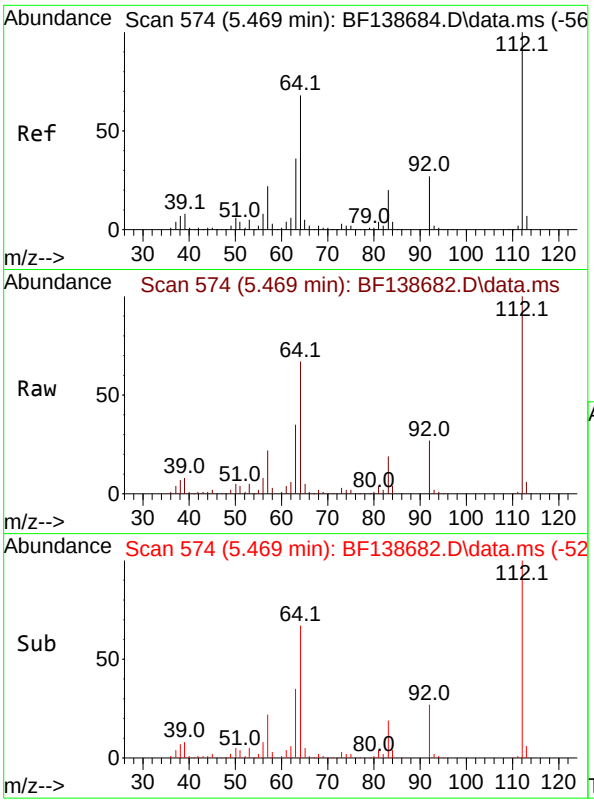




#4
n-Nitrosodimethylamine
Concen: 9.983 ng
RT: 3.287 min Scan# 203
Delta R.T. -0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion: 42 Resp: 29962

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 107.5 | 84.2 | 126.4 |
| 44 | 8.8 | 4.9 | 7.3# |

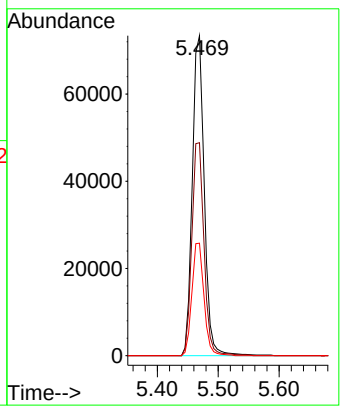





#5
2-Fluorophenol
Concen: 21.108 ng
RT: 5.469 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:112 Resp: 10029

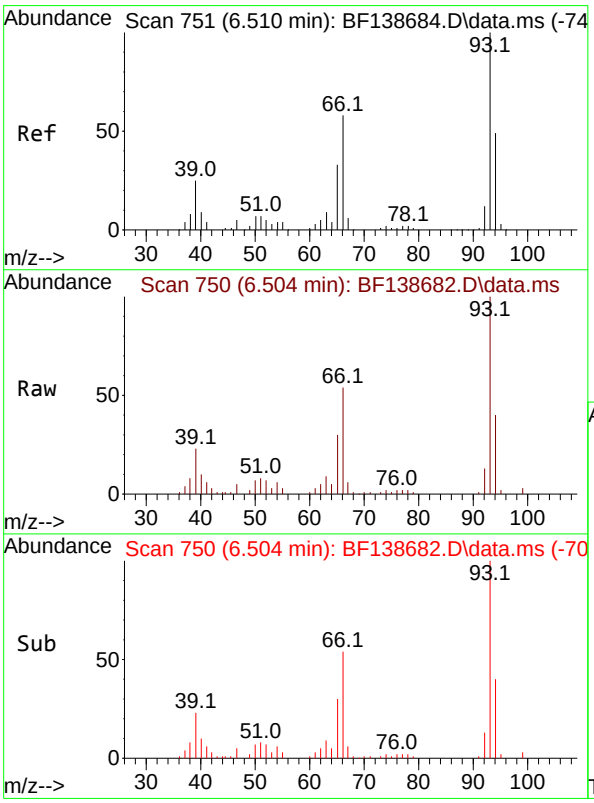
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 66.6 | 54.2 | 81.4 |
| 63 | 35.2 | 28.7 | 43.1 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations**
**APPROVED**

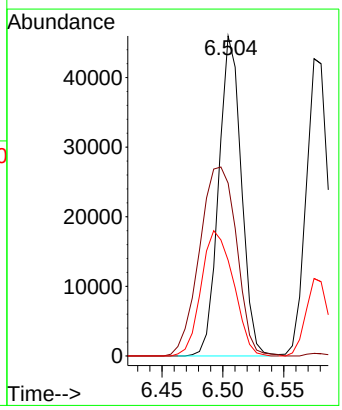
Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024

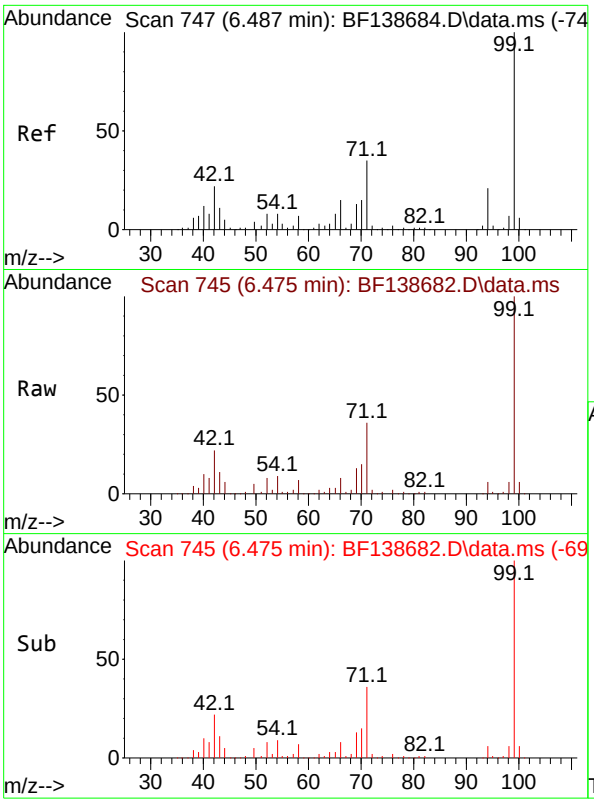



#6
Aniline
Concen: 10.481 ng
RT: 6.504 min Scan# 750
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion: 93 Resp: 59629

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 66 | 54.0 | 46.9 | 70.3 |
| 65 | 29.9 | 26.5 | 39.7 |

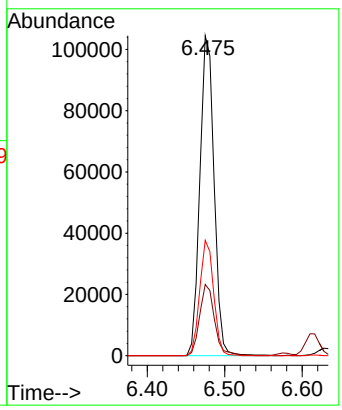





#7
Phenol-d6
Concen: 20.884 ng
RT: 6.475 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion: 99 Resp: 13323

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 22.2 | 17.4 | 26.0 |
| 71 | 36.0 | 28.1 | 42.1 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations APPROVED**

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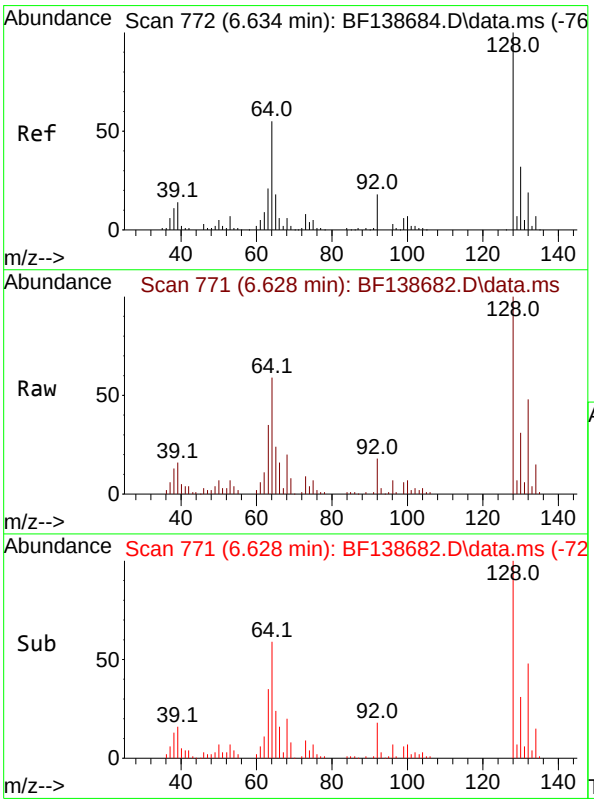
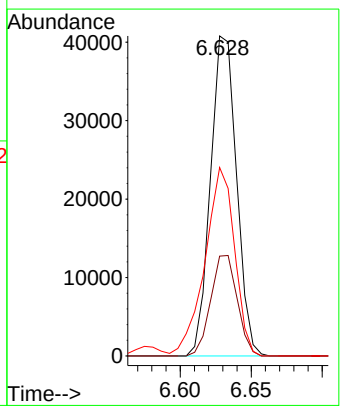
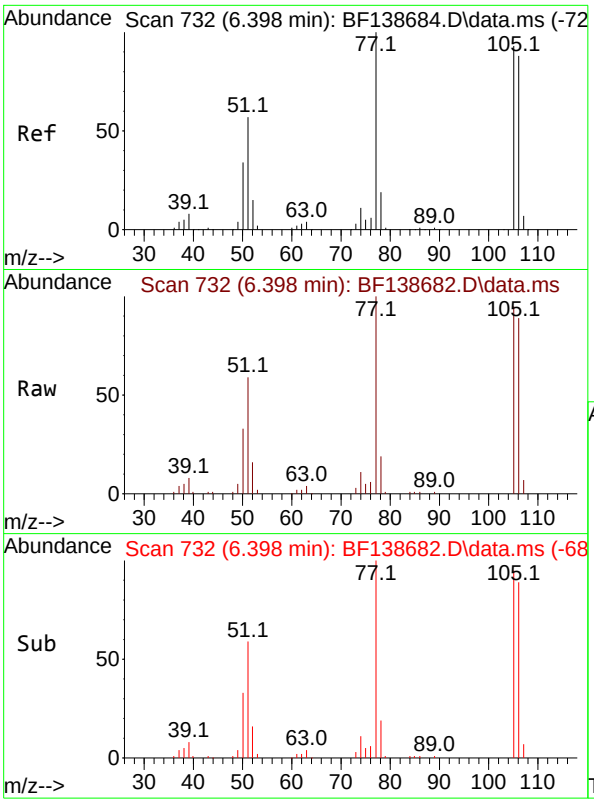



#8
2-Chlorophenol
Concen: 10.401 ng
RT: 6.628 min Scan# 771
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:128 Resp: 51997

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 130 | 31.2 | 12.0 | 52.0 |
| 64 | 58.9 | 36.3 | 76.3 |

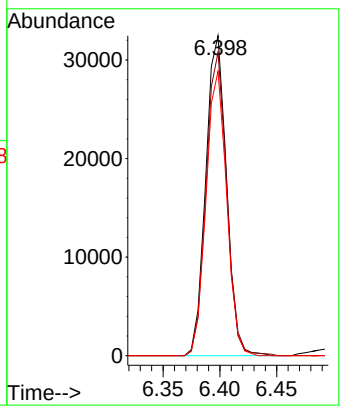





#9
Benzaldehyde
Concen: 10.733 ng
RT: 6.398 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion: 77 Resp: 4104

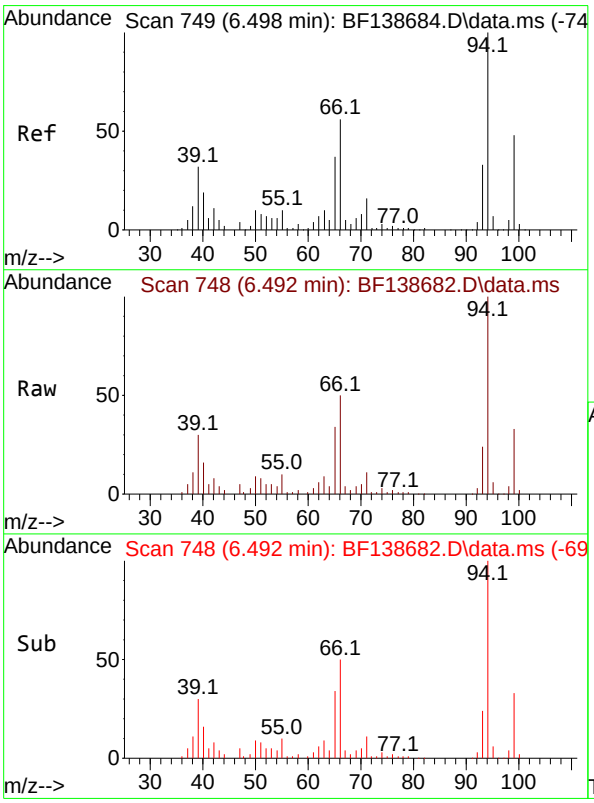
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 105 | 94.8 | 72.9 | 112.9 |
| 106 | 88.9 | 68.4 | 108.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations**
**APPROVED**

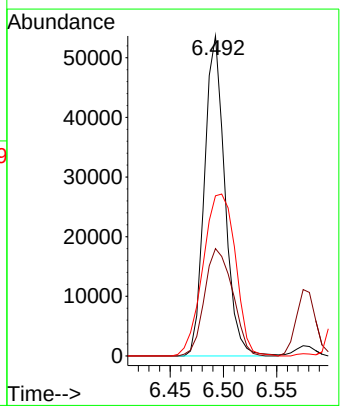
Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024

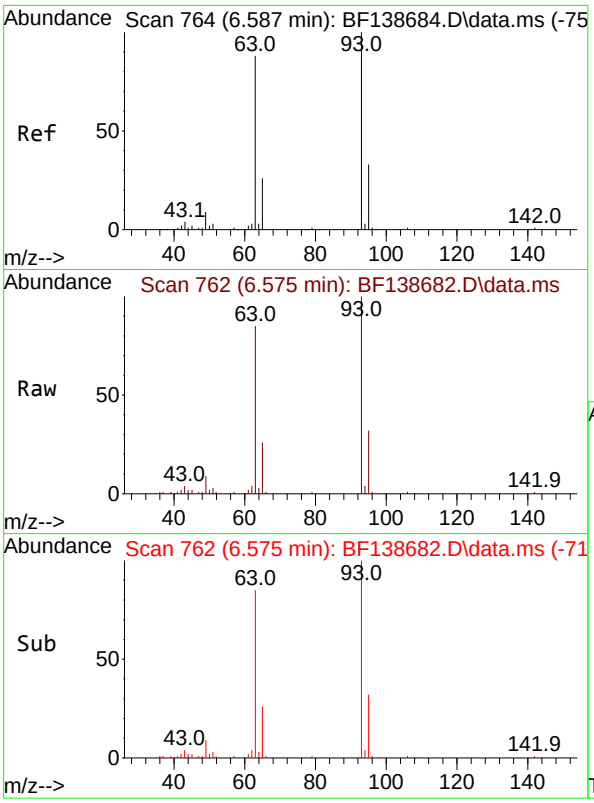



#10
Phenol
Concen: 10.626 ng
RT: 6.492 min Scan# 748
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion: 94 Resp: 71371

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 33.6 | 16.9 | 56.9 |
| 66 | 50.1 | 36.5 | 76.5 |

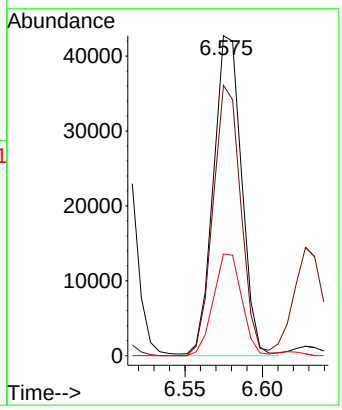





#11
bis(2-Chloroethyl)ether
Concen: 10.471 ng
RT: 6.575 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion: 93 Resp: 5412

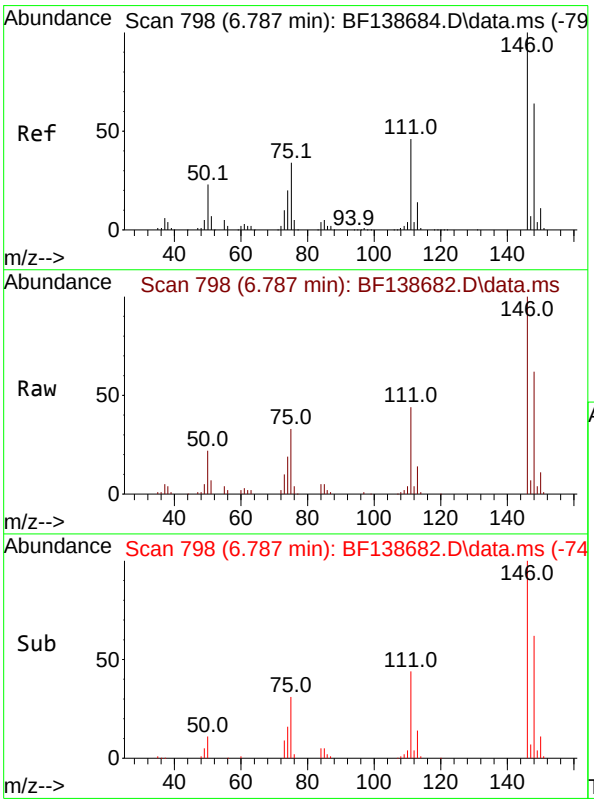
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 84.5 | 65.3 | 105.3 |
| 95 | 31.8 | 12.4 | 52.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations**
**APPROVED**

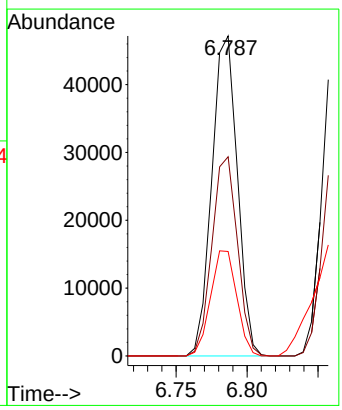
Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024

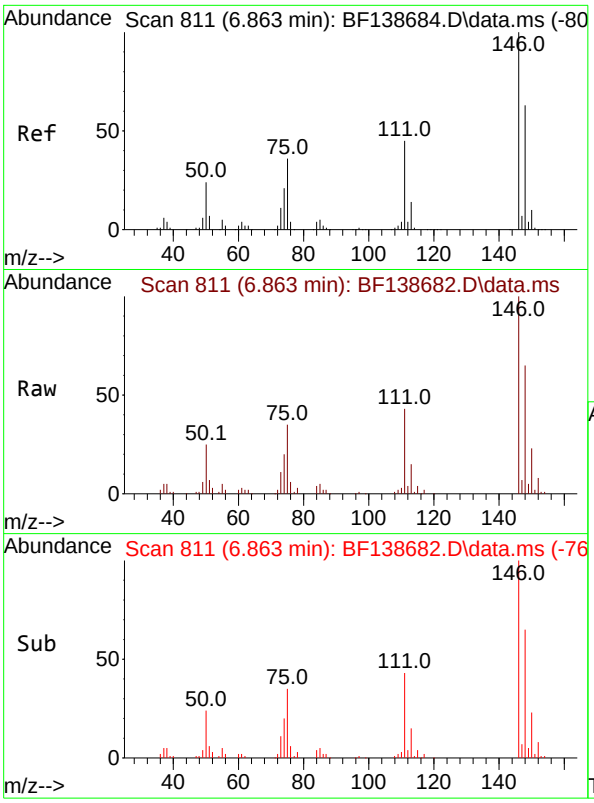



#12
1,3-Dichlorobenzene
Concen: 10.544 ng
RT: 6.787 min Scan# 798
Delta R.T. 0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:146 Resp: 59006

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 62.2 | 51.2 | 76.8 |
| 75 | 32.6 | 27.4 | 41.2 |

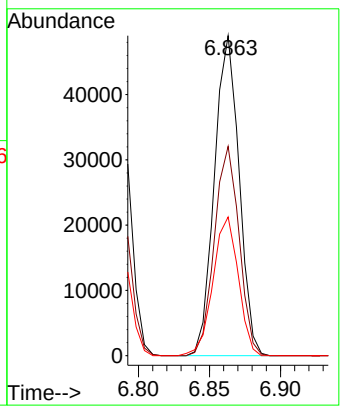





#13
1,4-Dichlorobenzene
Concen: 10.487 ng
RT: 6.863 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:146 Resp: 5922

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 65.4 | 50.2 | 75.2 |
| 111 | 43.4 | 35.9 | 53.9 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations**
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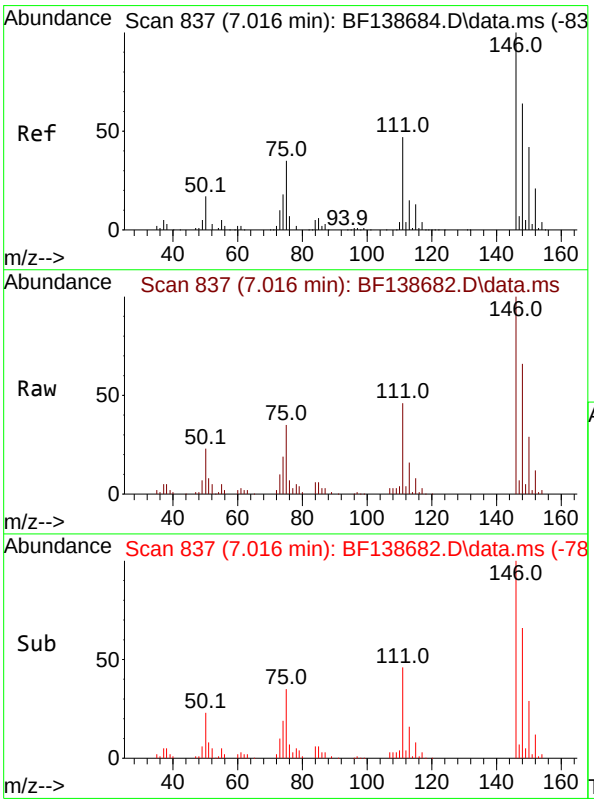
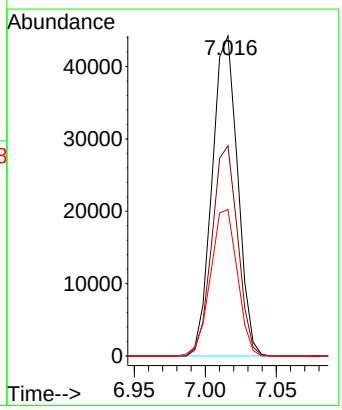
Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024

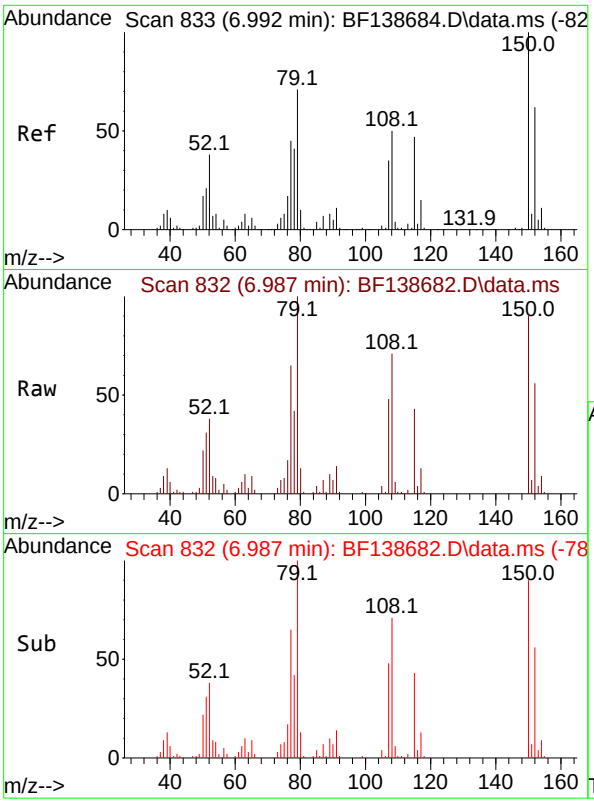



#14
1,2-Dichlorobenzene
Concen: 10.501 ng
RT: 7.016 min Scan# 837
Delta R.T. -0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:146 Resp: 55425

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 65.7 | 50.8 | 76.2 |
| 111 | 45.7 | 37.4 | 56.2 |

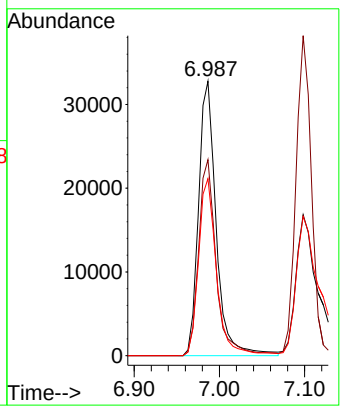





#15
Benzyl Alcohol
Concen: 10.267 ng
RT: 6.987 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion: 79 Resp: 4720

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 108 | 71.4 | 56.6 | 85.0 |
| 77 | 64.6 | 50.3 | 75.5 |




**Instrument :**
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SSTDICC010

**Manual Integrations**
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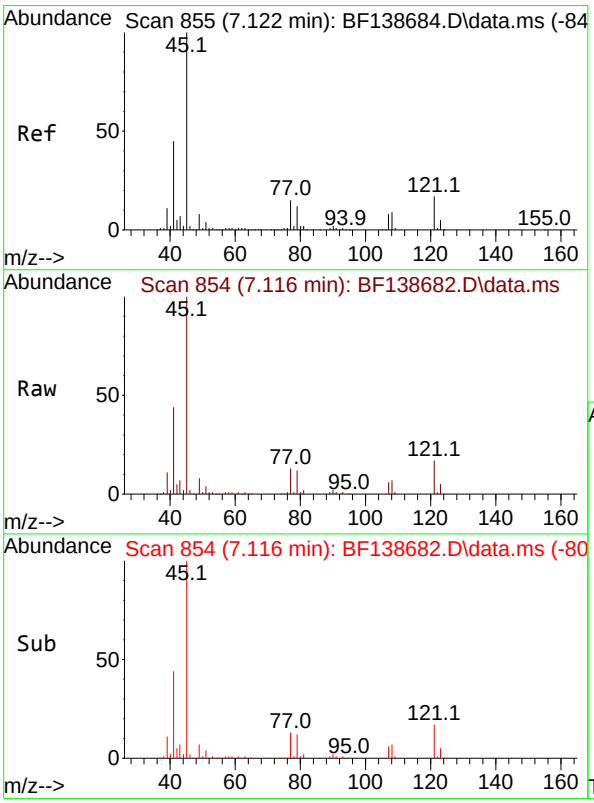
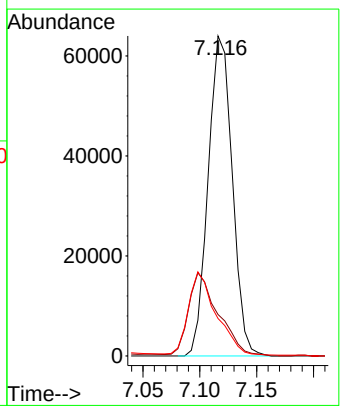
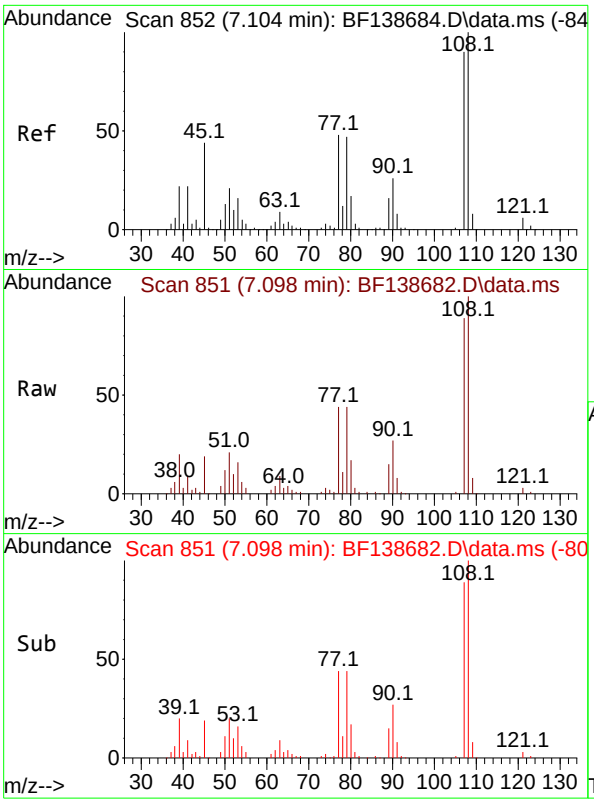



#16
2,2'-oxybis(1-Chloropropane)
Concen: 10.620 ng
RT: 7.116 min Scan# 854
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion: 45 Resp: 94469

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 77 | 13.0 | 0.0 | 34.9 |
| 79 | 11.7 | 0.0 | 32.2 |

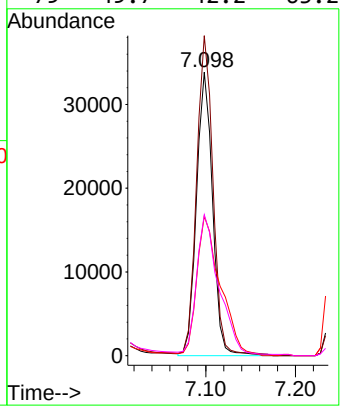





#17
2-Methylphenol
Concen: 10.252 ng
RT: 7.098 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:107 Resp: 4232

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 112.9 | 89.2 | 133.8 |
| 77 | 49.1 | 43.0 | 64.4 |
| 79 | 49.7 | 42.2 | 63.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

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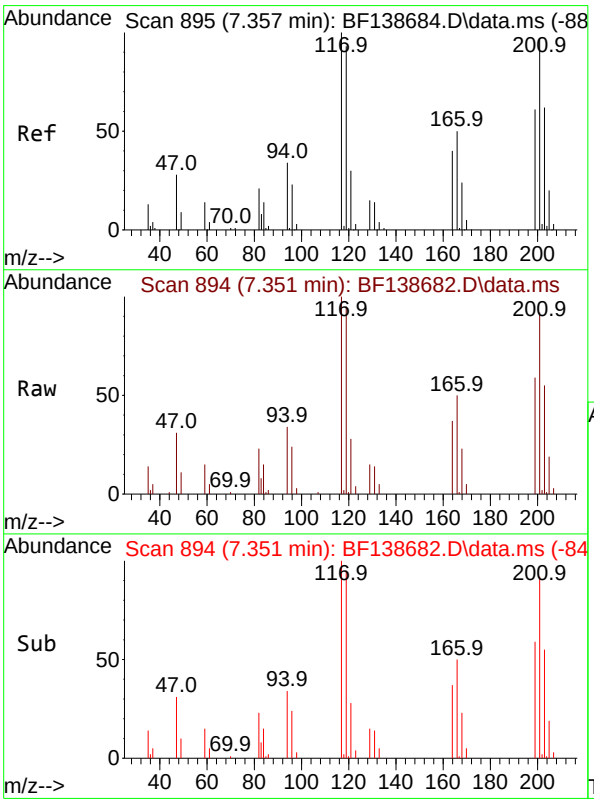
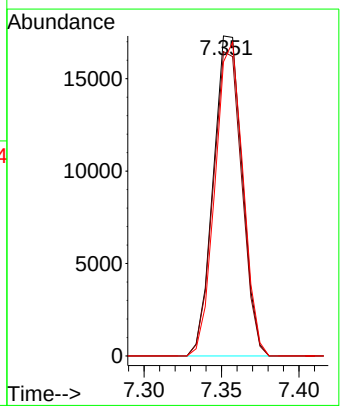
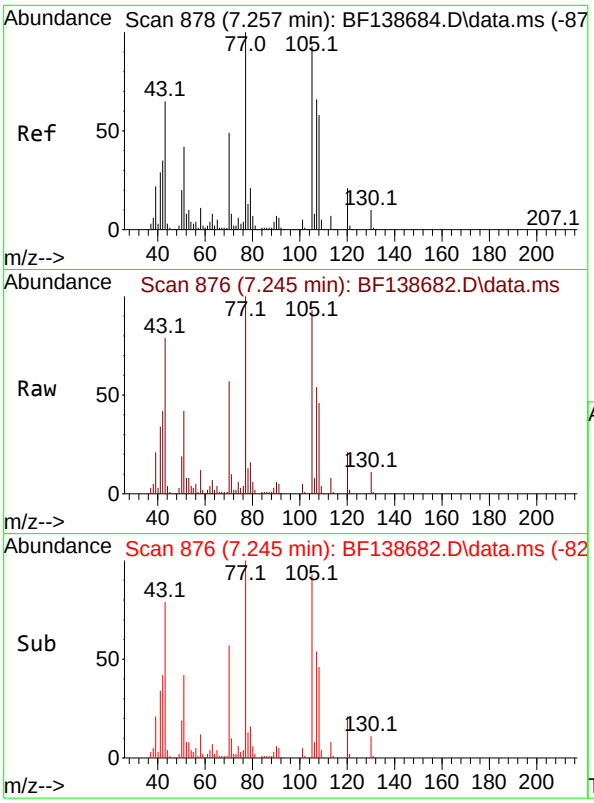



#18
Hexachloroethane
Concen: 10.598 ng
RT: 7.351 min Scan# 894
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:117 Resp: 22530

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 95.1 | 74.6 | 111.8 |
| 201 | 91.9 | 77.2 | 115.8 |

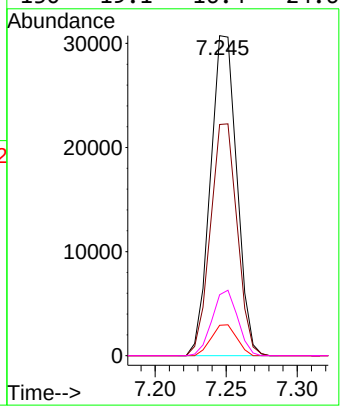





#19
n-Nitroso-di-n-propylamine
Concen: 10.345 ng
RT: 7.245 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion: 70 Resp: 3986

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 42 | 72.3 | 57.4 | 86.0 |
| 101 | 9.5 | 7.5 | 11.3 |
| 130 | 19.1 | 16.4 | 24.6 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

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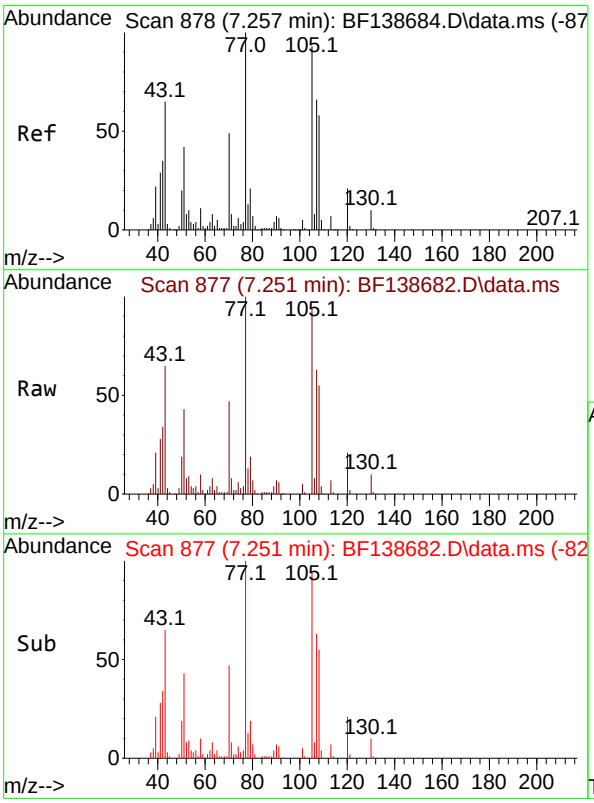
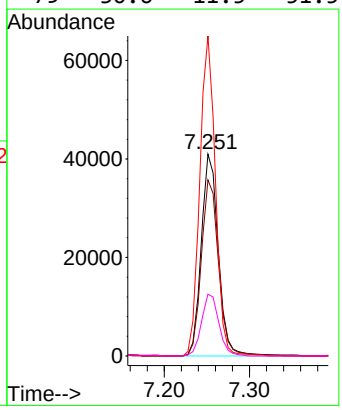
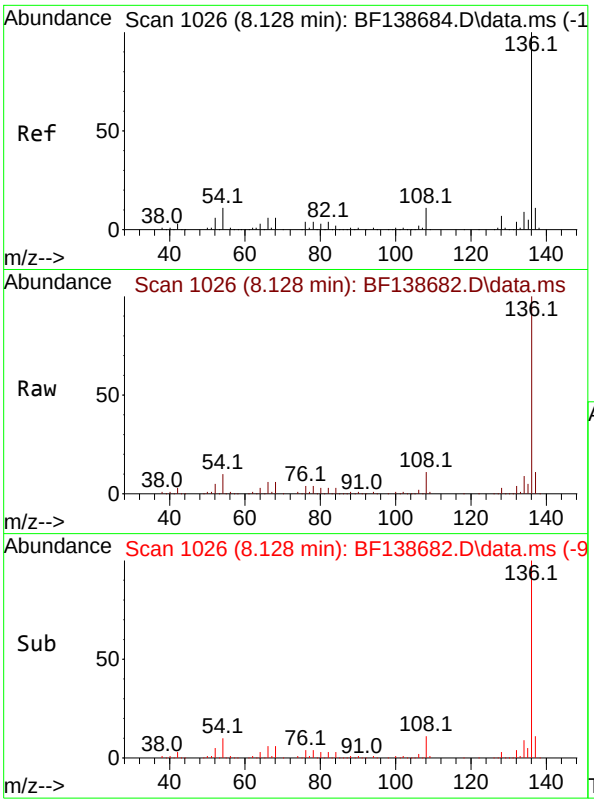



#20
3+4-Methylphenols
Concen: 10.760 ng
RT: 7.251 min Scan# 877
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:107 Resp: 56989

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 87.2 | 68.2 | 108.2 |
| 77 | 158.6 | 132.1 | 172.1 |
| 79 | 30.6 | 11.5 | 51.5 |






#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.128 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

Tgt Ion:136 Resp: 29790

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.8 | 8.9 | 13.3 |
| 54 | 10.1 | 8.6 | 12.8 |
| 68 | 6.0 | 4.8 | 7.2 |

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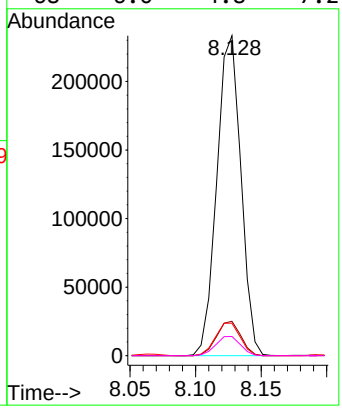
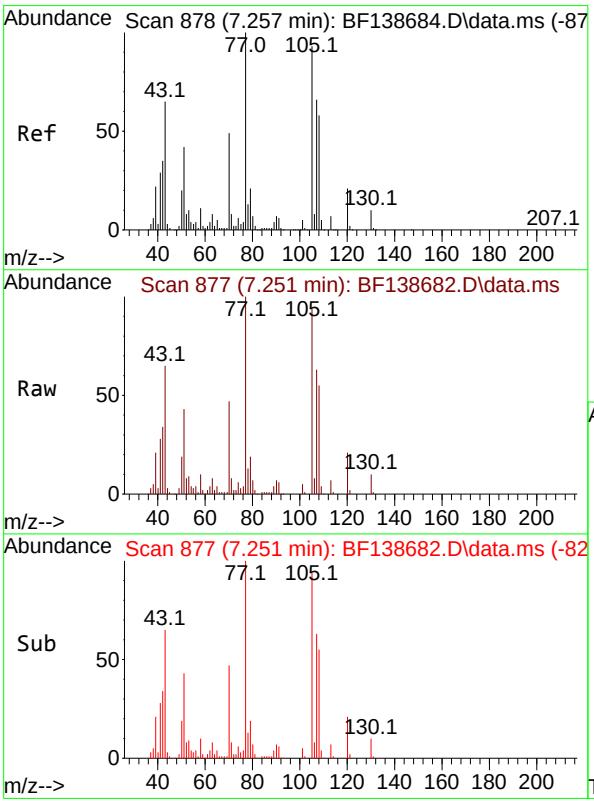
Supervised By :mohammad ahmed 07/31/2024

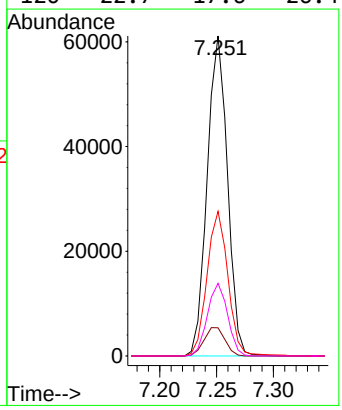


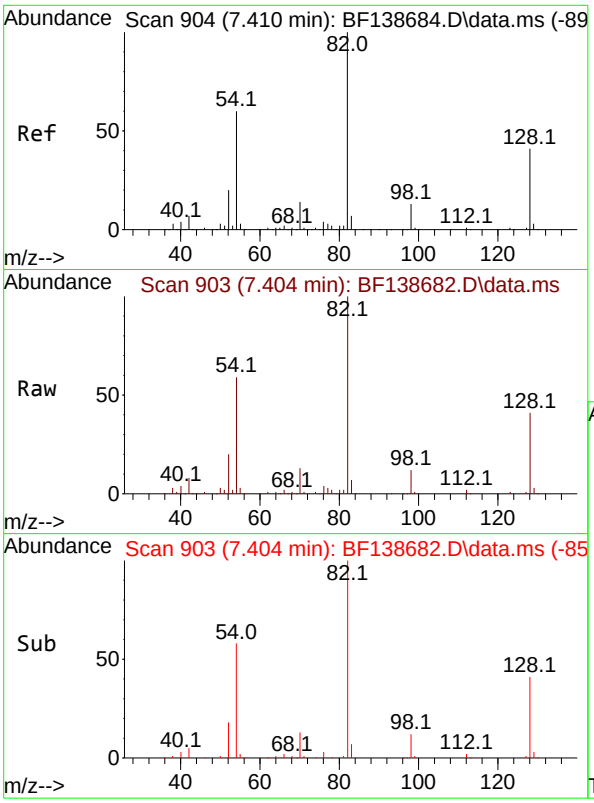




#22
Acetophenone
Concen: 10.404 ng
RT: 7.251 min Scan# 877
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:105 Resp: 75892

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 71 | 8.8 | 7.2 | 10.8 |
| 51 | 45.2 | 35.9 | 53.9 |
| 120 | 22.7 | 17.6 | 26.4 |

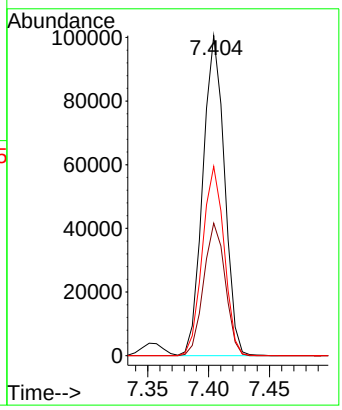





#23
Nitrobenzene-d5
Concen: 20.350 ng
RT: 7.404 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion: 82 Resp: 12399

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 41.4 | 32.8 | 49.2 |
| 54 | 59.1 | 48.3 | 72.5 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

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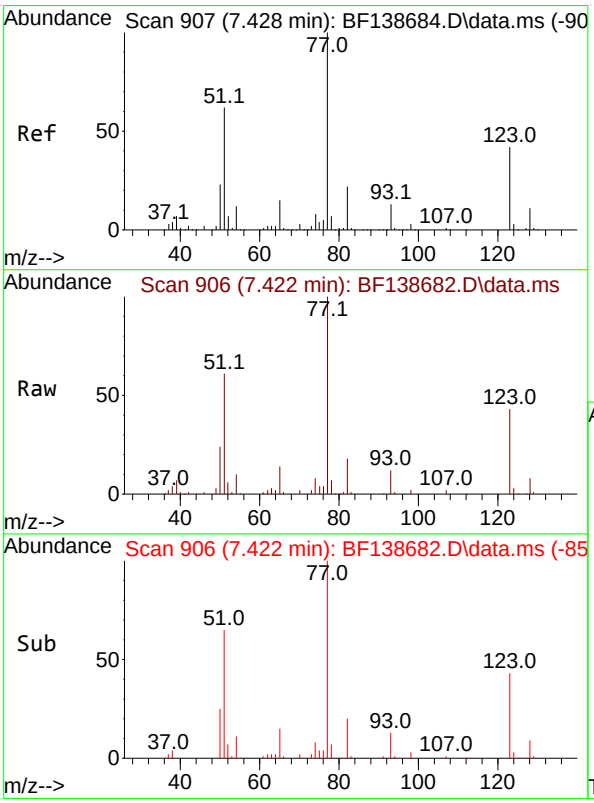
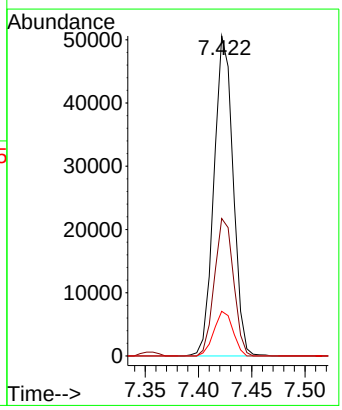
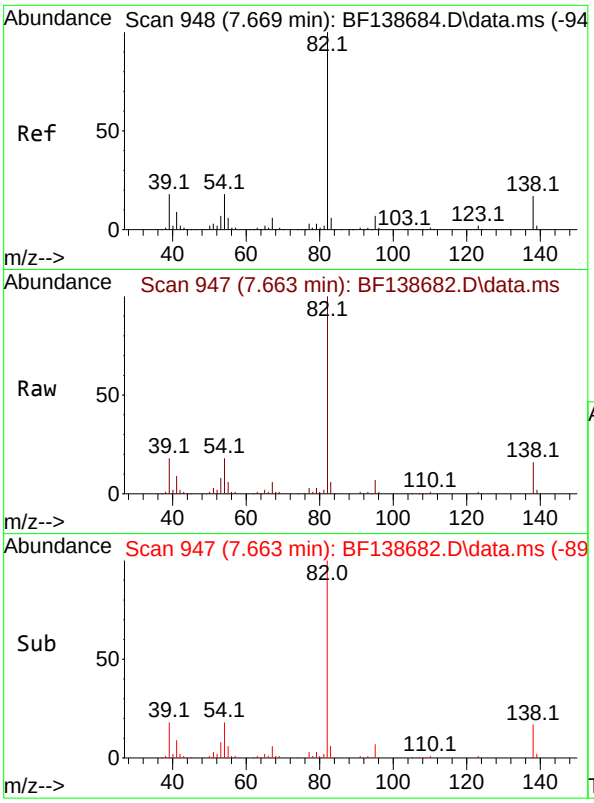



#24
Nitrobenzene
Concen: 10.164 ng
RT: 7.422 min Scan# 906
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion: 77 Resp: 63020

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 123 | 42.9 | 33.3 | 49.9 |
| 65 | 14.0 | 11.9 | 17.9 |

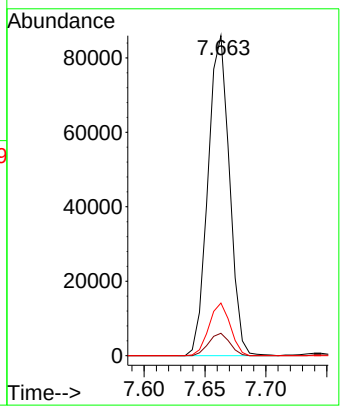





#25
Isophorone
Concen: 10.167 ng
RT: 7.663 min Scan# 94
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion: 82 Resp: 10578

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 95 | 7.0 | 5.7 | 8.5 |
| 138 | 16.4 | 13.7 | 20.5 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

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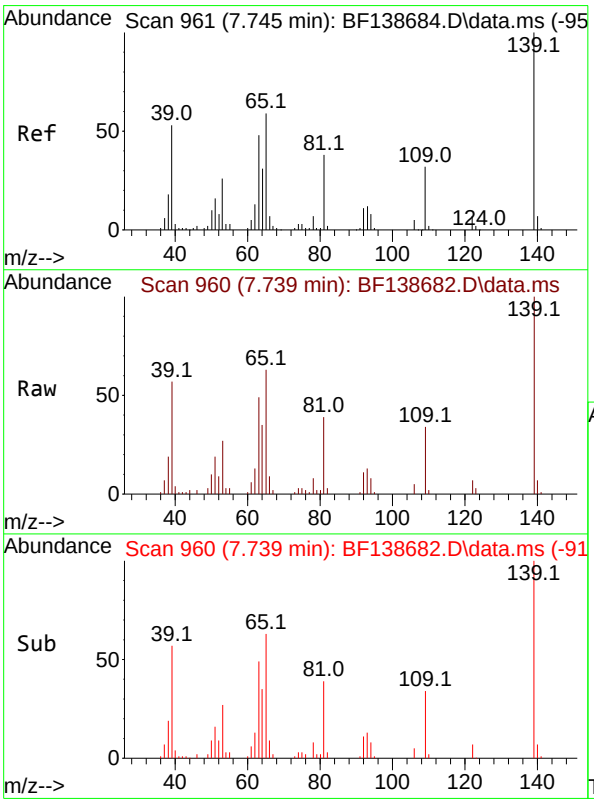
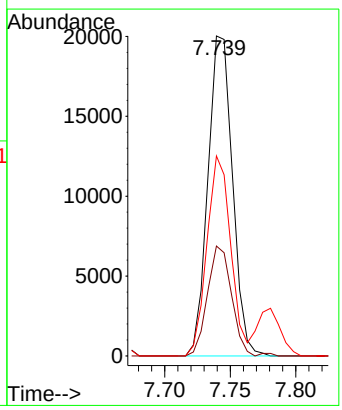
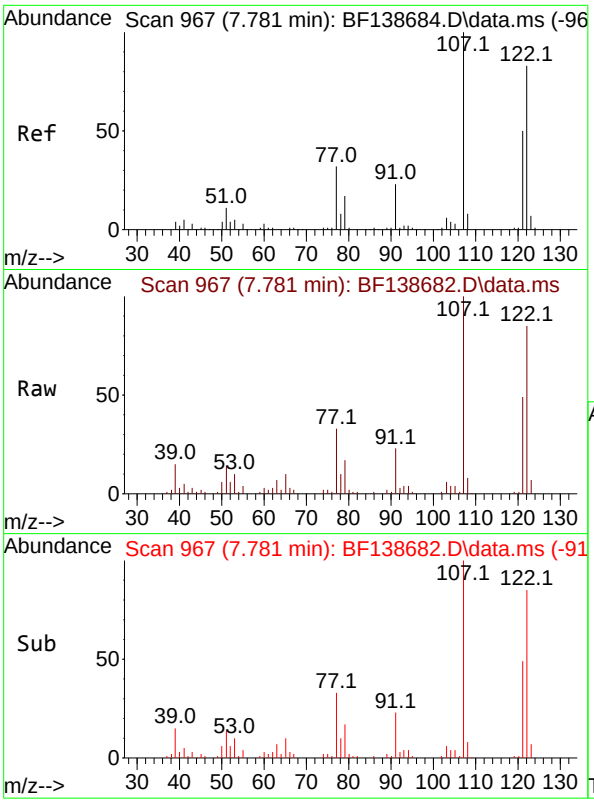



#26
2-Nitrophenol
Concen: 9.803 ng
RT: 7.739 min Scan# 960
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:139 Resp: 26149

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 34.4 | 25.9 | 38.9 |
| 65 | 62.5 | 47.0 | 70.6 |

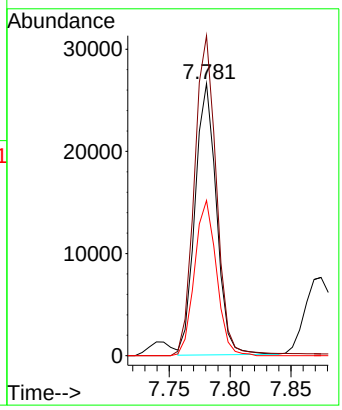





#27
2,4-Dimethylphenol
Concen: 10.147 ng
RT: 7.781 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:122 Resp: 3238

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 107 | 117.6 | 95.0 | 142.6 |
| 121 | 57.1 | 47.3 | 70.9 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

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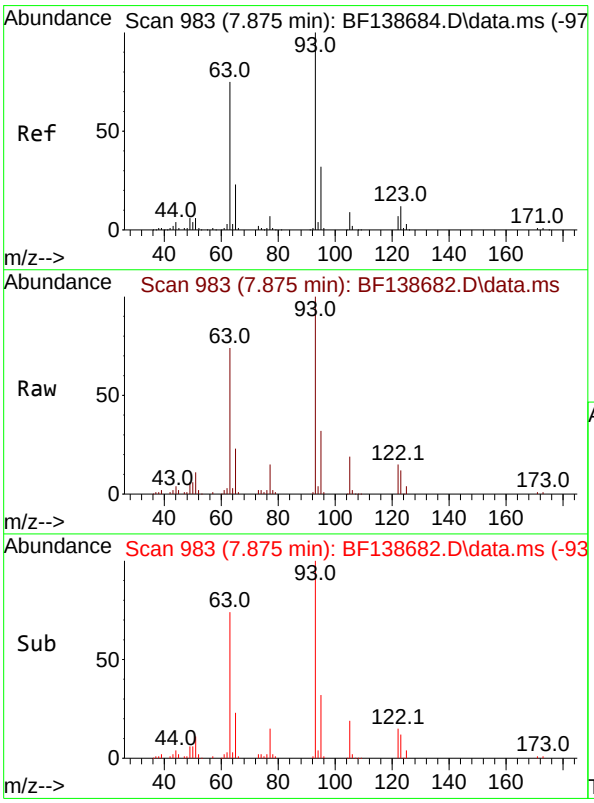
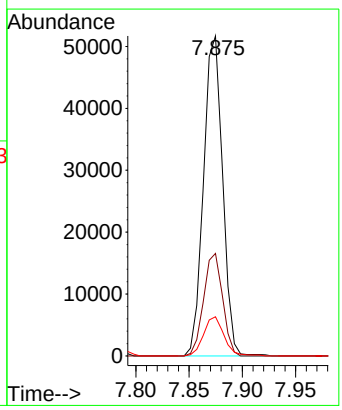
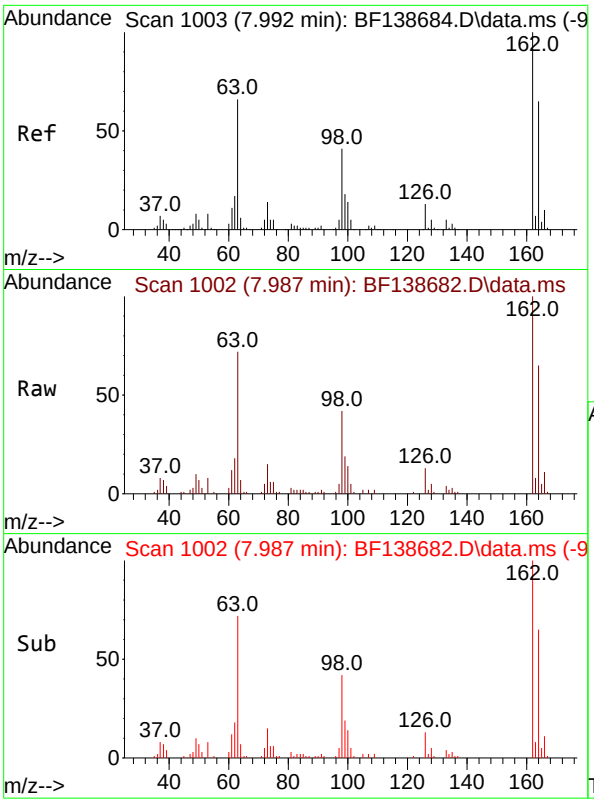



#28
bis(2-Chloroethoxy)methane
Concen: 10.191 ng
RT: 7.875 min Scan# 983
Delta R.T. -0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion: 93 Resp: 64569

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 32.0 | 25.8 | 38.8 |
| 123 | 12.3 | 9.4 | 14.0 |

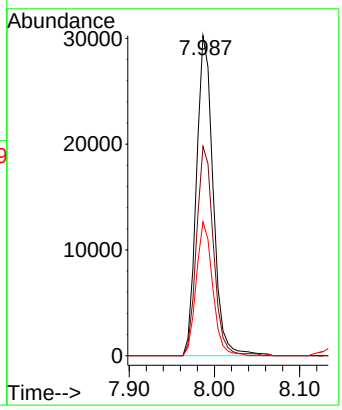





#29
2,4-Dichlorophenol
Concen: 10.031 ng
RT: 7.987 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:162 Resp: 4113

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 164 | 65.4 | 44.7 | 84.7 |
| 98 | 41.8 | 20.8 | 60.8 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

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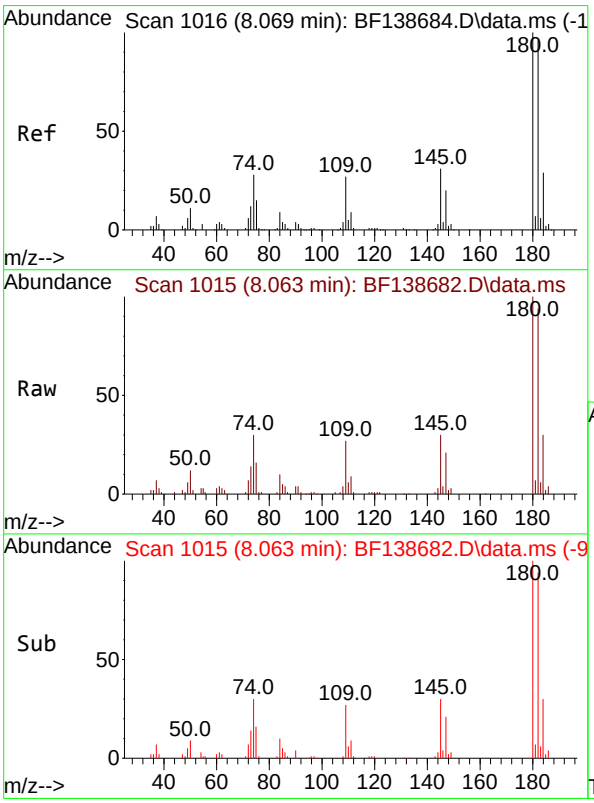
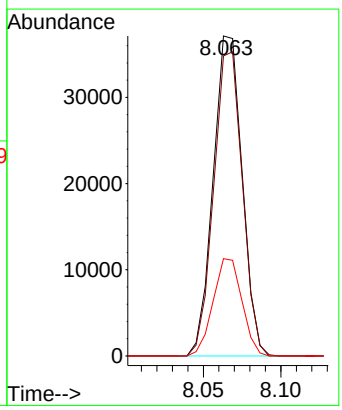
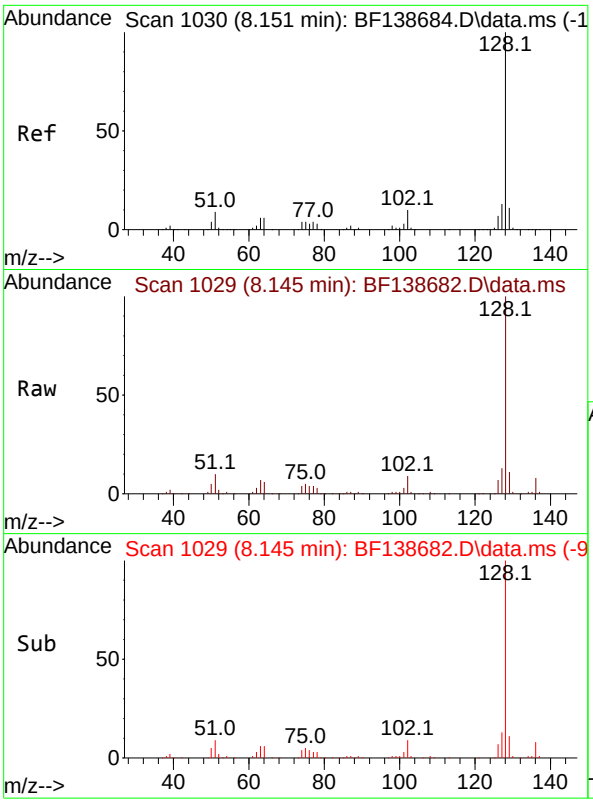



#30
1,2,4-Trichlorobenzene
Concen: 10.199 ng
RT: 8.063 min Scan# 1015
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:180 Resp: 48272

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.7 | 76.9 | 115.3 |
| 145 | 30.4 | 25.0 | 37.4 |

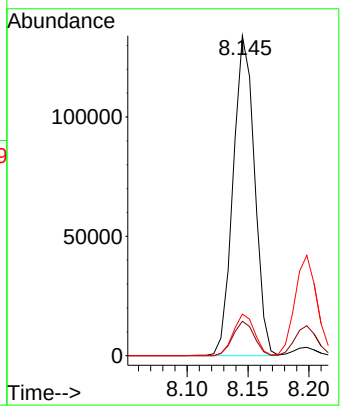





#31
Naphthalene
Concen: 10.469 ng
RT: 8.145 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:128 Resp: 16416

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 10.7 | 8.7 | 13.1 |
| 127 | 13.0 | 10.6 | 16.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations**
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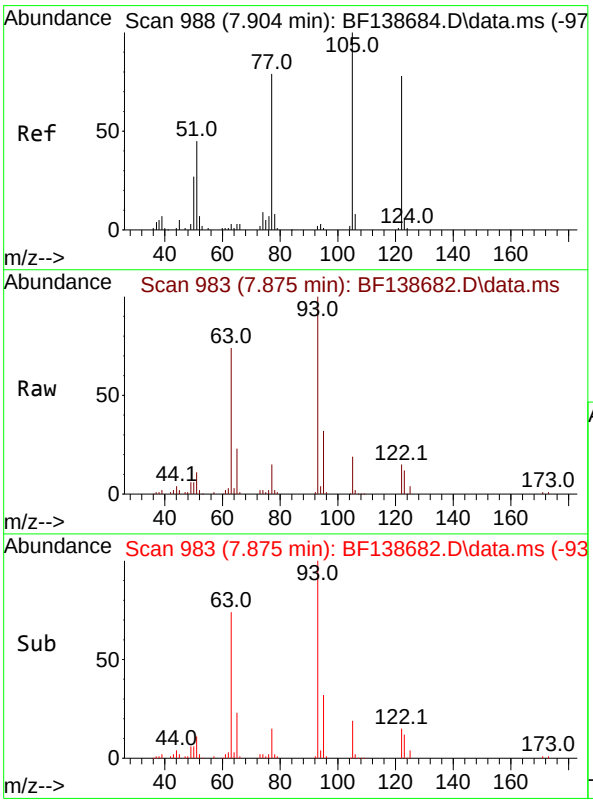
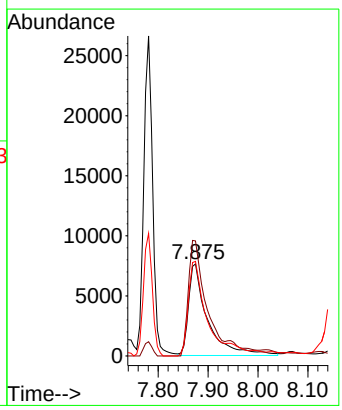
Supervised By :mohammad ahmed 07/31/2024

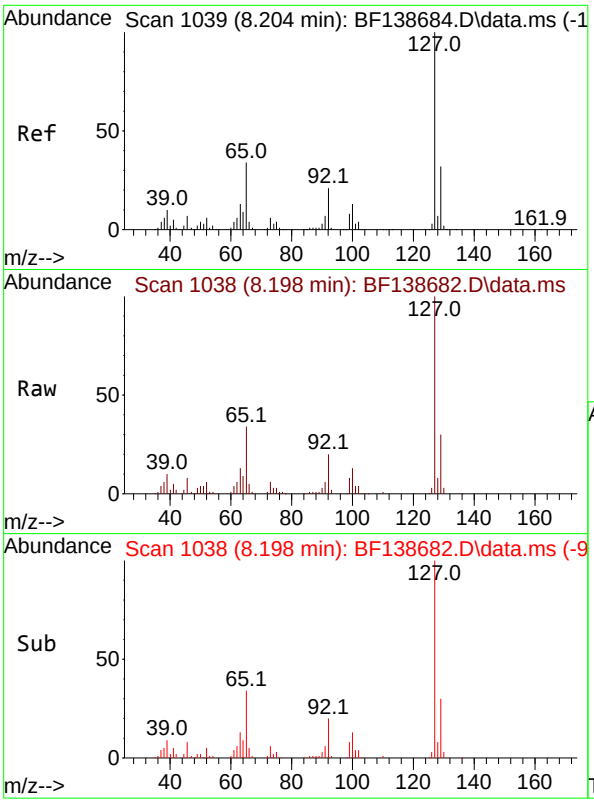



#32
Benzoic acid
Concen: 8.102 ng m
RT: 7.875 min Scan# 983
Delta R.T. -0.029 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:122 Resp: 20318

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 125.2 | 106.7 | 146.7 |
| 77 | 102.9 | 81.1 | 121.1 |

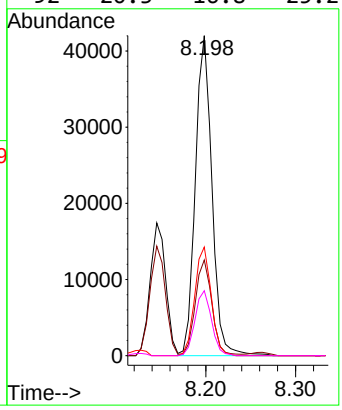





#33
4-Chloroaniline
Concen: 10.260 ng
RT: 8.198 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:127 Resp: 5400

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 29.9 | 25.9 | 38.9 |
| 65 | 33.9 | 27.6 | 41.4 |
| 92 | 20.3 | 16.8 | 25.2 |




**Instrument :**
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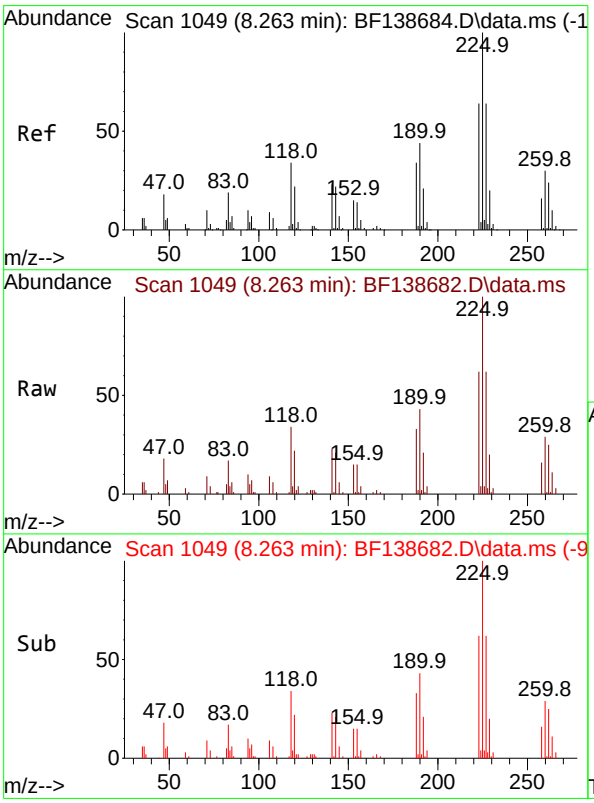
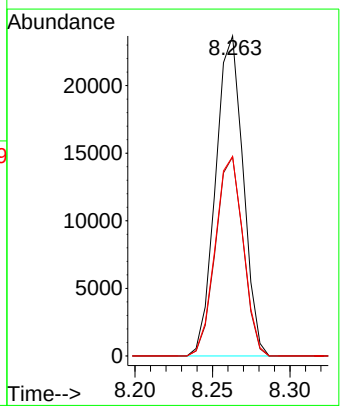
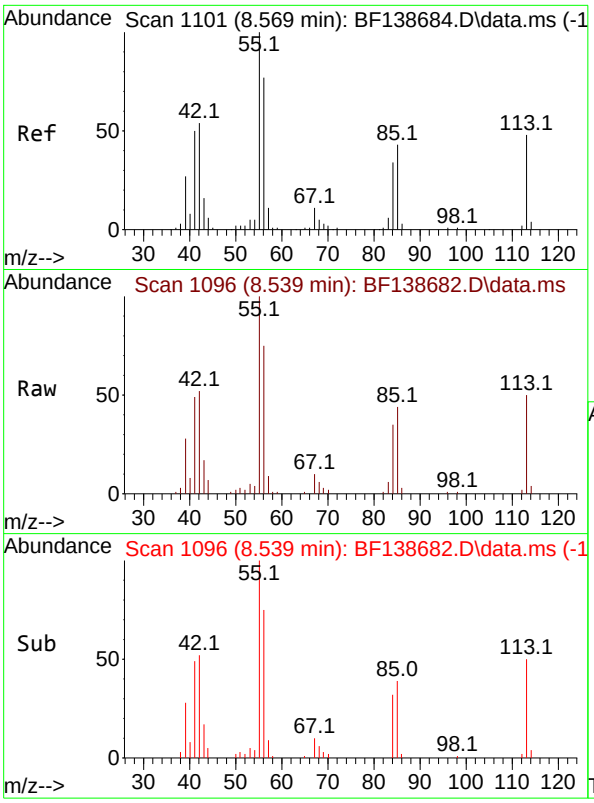



#34
Hexachlorobutadiene
Concen: 10.224 ng
RT: 8.263 min Scan# 1049
Delta R.T. -0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:225 Resp: 29309

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.3 | 51.2 | 76.8 |
| 227 | 62.4 | 51.1 | 76.7 |

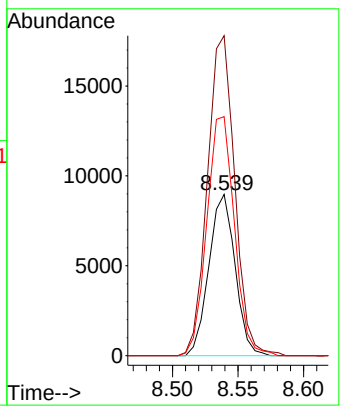





#35
Caprolactam
Concen: 10.193 ng
RT: 8.539 min Scan# 1
Delta R.T. -0.029 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:113 Resp: 1247

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 55 | 198.5 | 186.7 | 226.7 |
| 56 | 148.2 | 138.9 | 178.9 |




**Instrument :**
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**ClientSampleId :**
SSTDICC010

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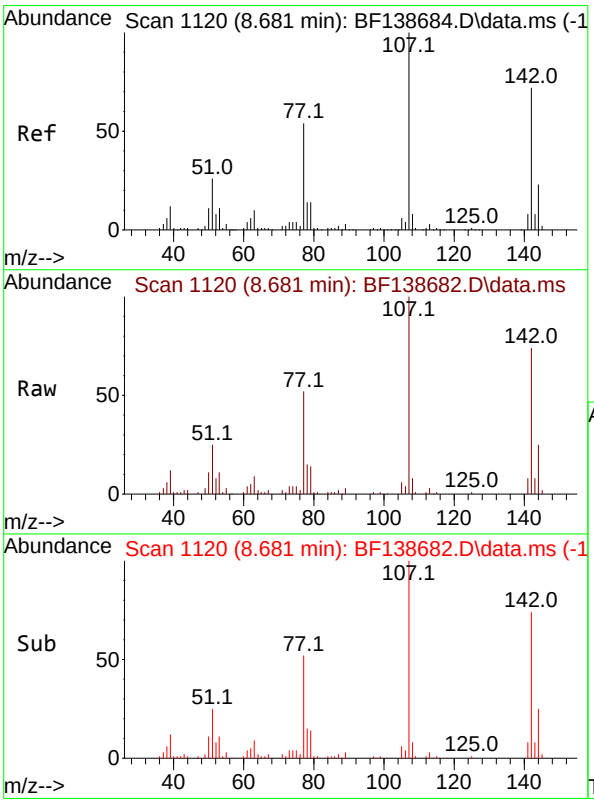
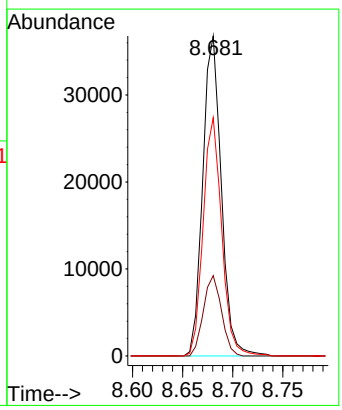
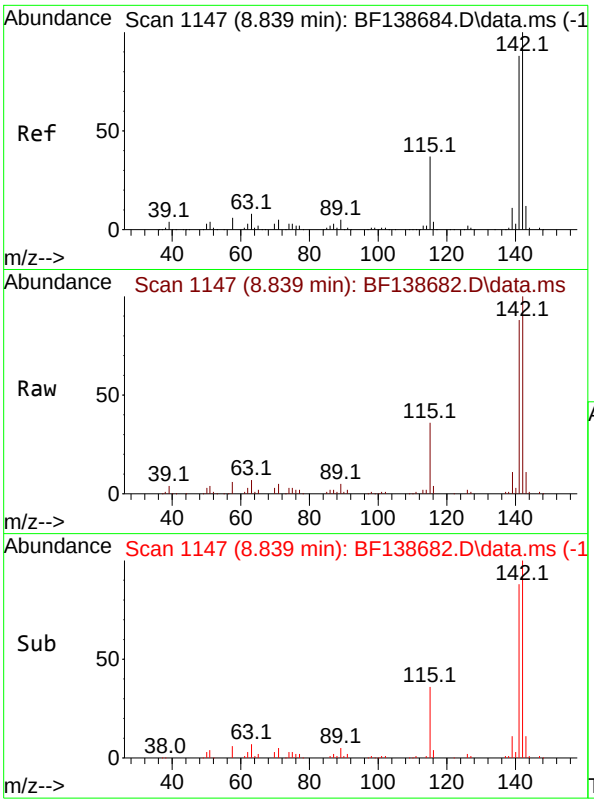



#36
4-Chloro-3-methylphenol
Concen: 10.152 ng
RT: 8.681 min Scan# 1120
Delta R.T. -0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:107 Resp: 47584

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 144 | 25.1 | 18.2 | 27.2 |
| 142 | 74.5 | 57.4 | 86.2 |

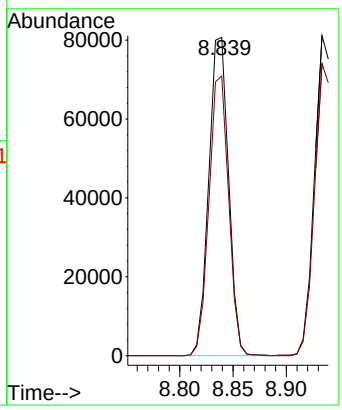





#37
2-Methylnaphthalene
Concen: 10.511 ng
RT: 8.839 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:142 Resp: 10409

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 87.8 | 70.8 | 106.2 |




**Instrument :**
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**ClientSampleId :**
SSTDICC010

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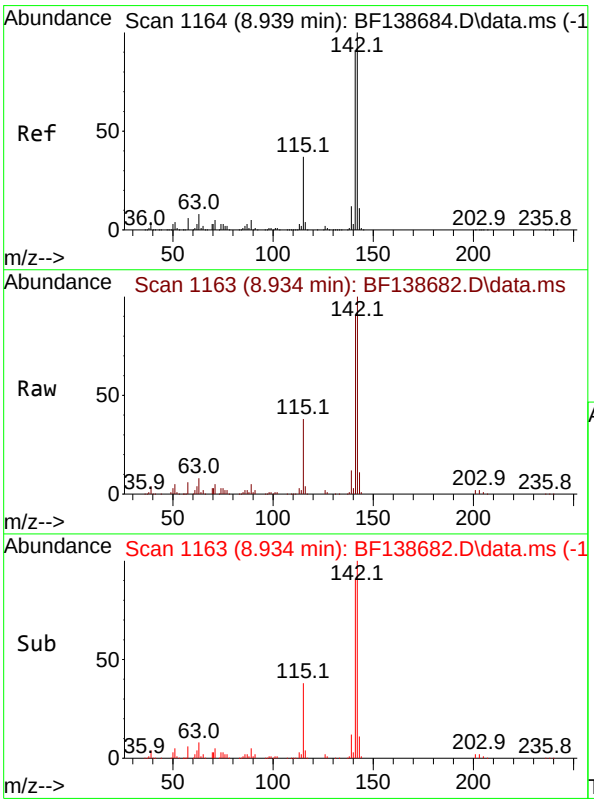
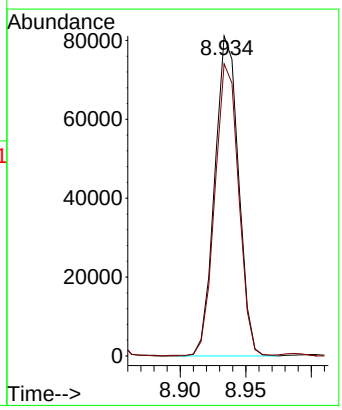
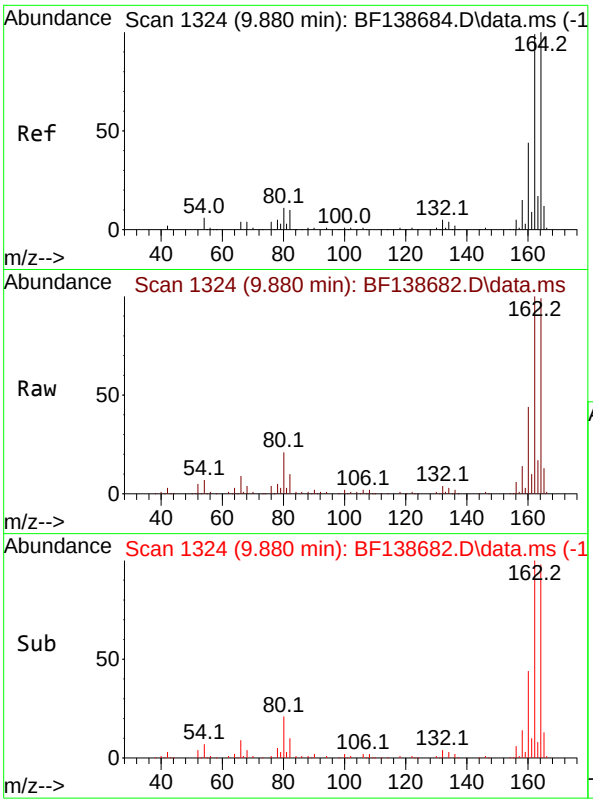



#38
1-Methylnaphthalene
Concen: 10.521 ng
RT: 8.934 min Scan# 1163
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:142 Resp: 102100

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 91.3 | 73.1 | 109.7 |

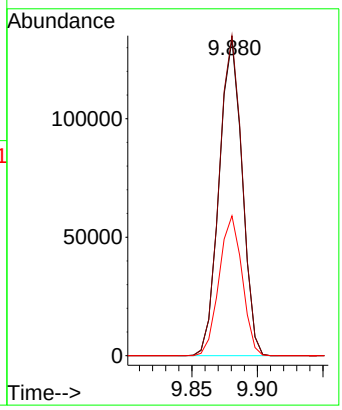





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.880 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:164 Resp: 16224

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 101.3 | 79.4 | 119.0 |
| 160 | 44.3 | 35.1 | 52.7 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

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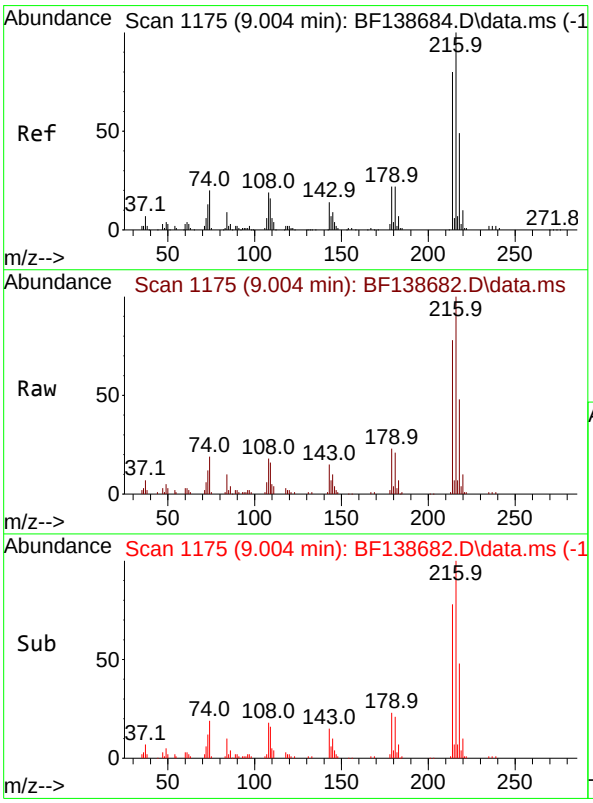
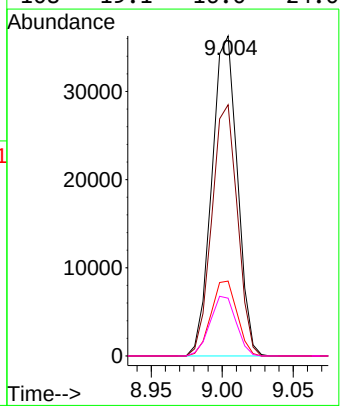
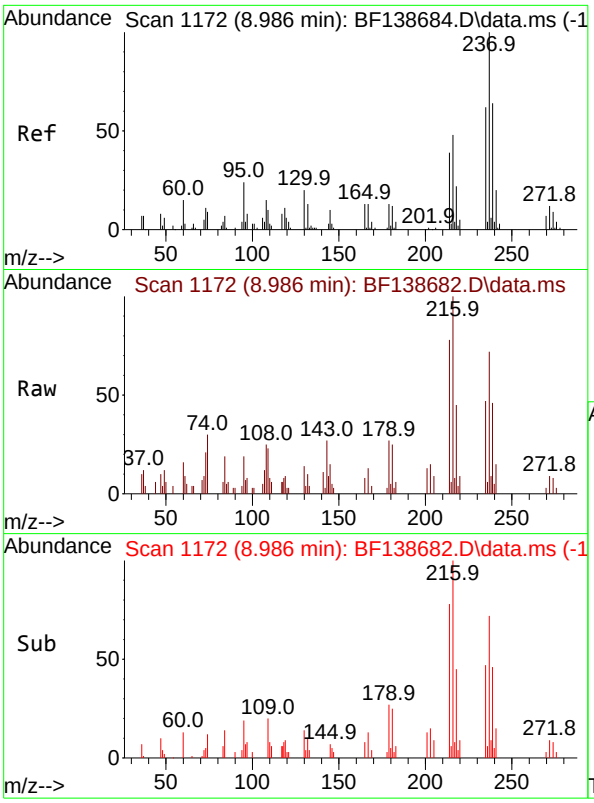



#40
1,2,4,5-Tetrachlorobenzene
Concen: 10.082 ng
RT: 9.004 min Scan# 1175
Delta R.T. 0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:216 Resp: 45439

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 216 | 100 | | |
| 214 | 78.4 | 63.9 | 95.9 |
| 179 | 23.9 | 17.8 | 26.6 |
| 108 | 19.1 | 16.0 | 24.0 |






#41
Hexachlorocyclopentadiene
Concen: 10.915 ng
RT: 8.986 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

Tgt Ion:237 Resp: 516

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 237 | 100 | | |
| 235 | 65.1 | 41.8 | 81.8 |
| 272 | 12.6 | 0.0 | 32.2 |

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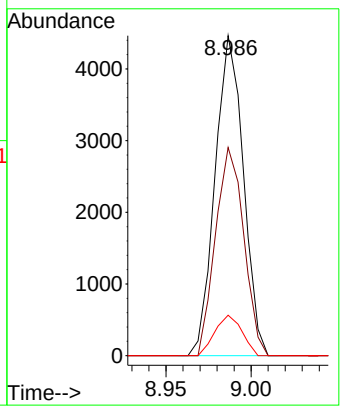
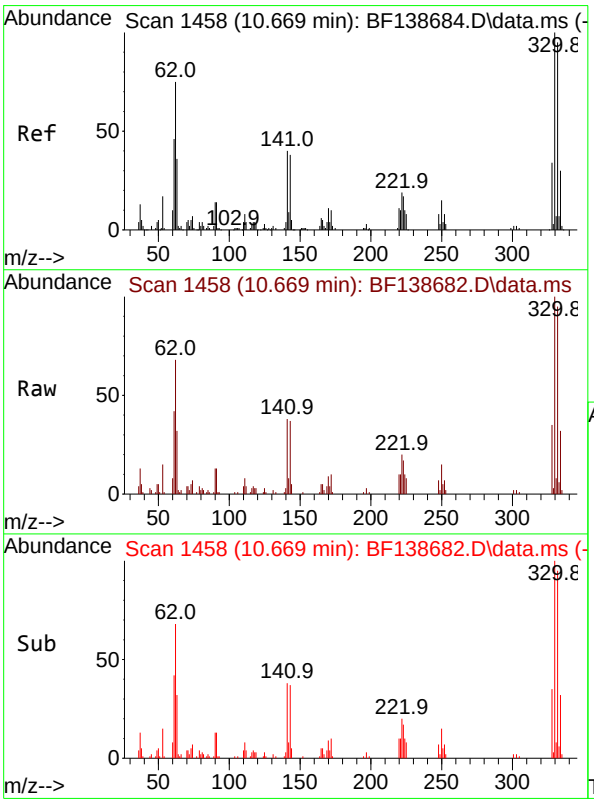
Supervised By :mohammad ahmed 07/31/2024

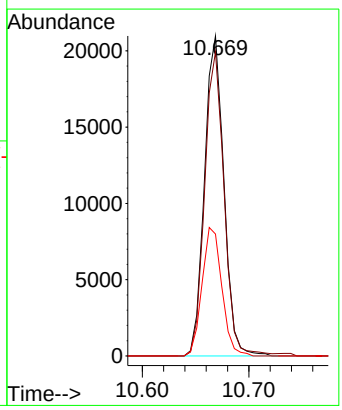


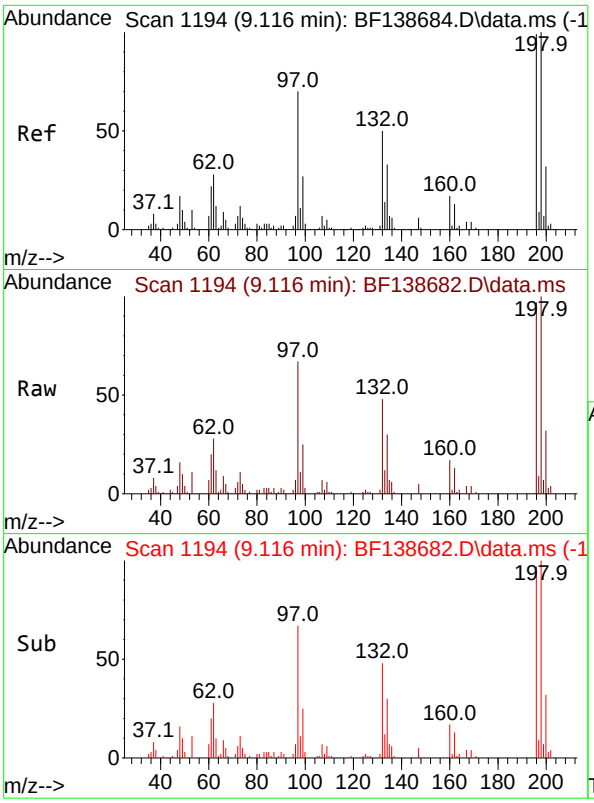




#42
2,4,6-Tribromophenol
Concen: 20.011 ng
RT: 10.669 min Scan# 1458
Delta R.T. 0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:330 Resp: 26595

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 95.6 | 76.4 | 114.6 |
| 141 | 41.0 | 31.1 | 46.7 |

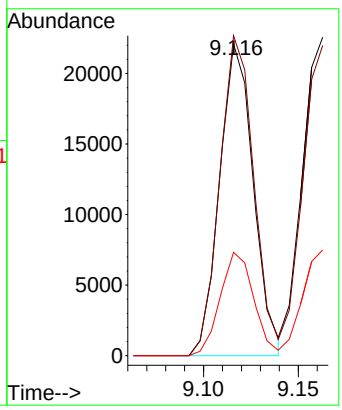





#43
2,4,6-Trichlorophenol
Concen: 9.985 ng
RT: 9.116 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:196 Resp: 2743

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 102.7 | 80.5 | 120.7 |
| 200 | 33.2 | 25.9 | 38.9 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

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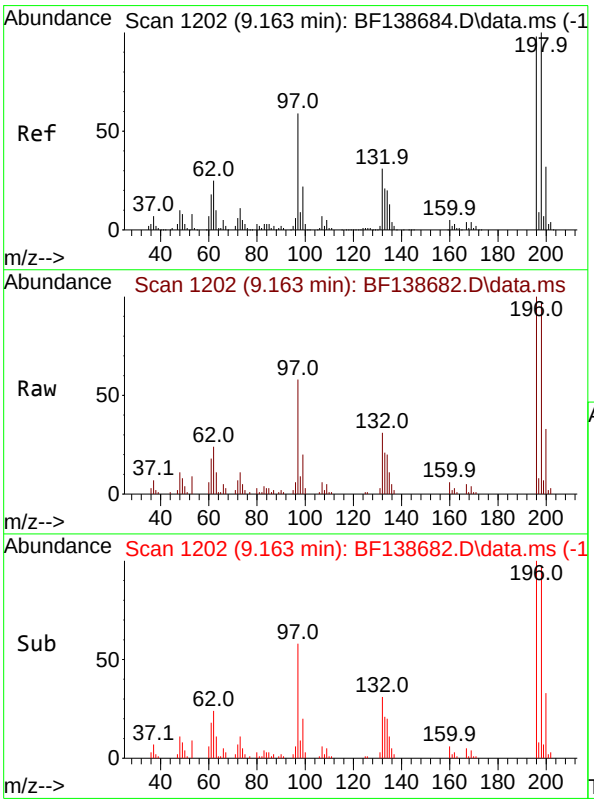
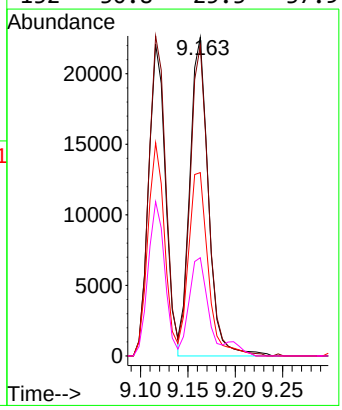
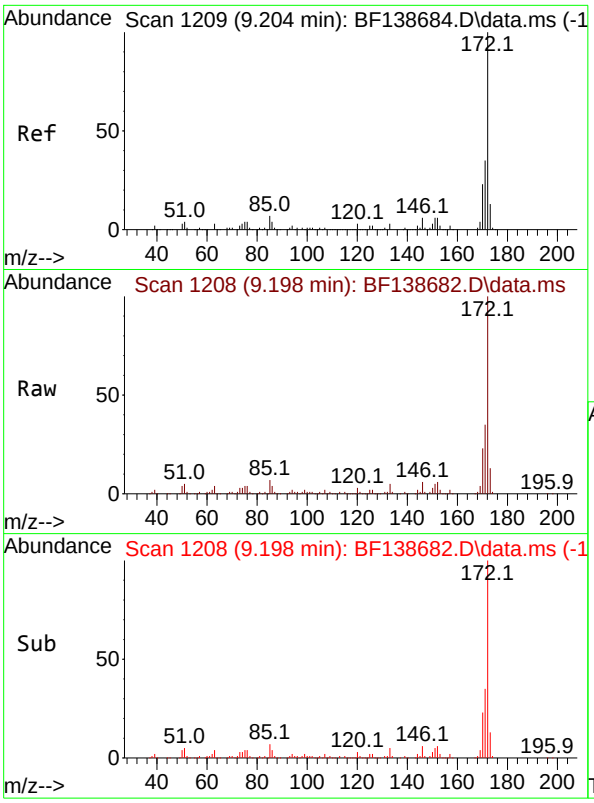



#44
2,4,5-Trichlorophenol
Concen: 10.247 ng
RT: 9.163 min Scan# 1202
Delta R.T. 0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:196 Resp: 30782

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 97.4 | 81.2 | 121.8 |
| 97 | 57.6 | 47.8 | 71.6 |
| 132 | 30.8 | 25.3 | 37.9 |

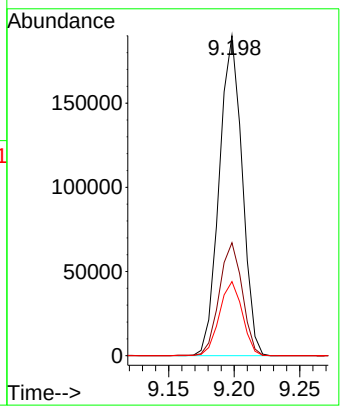





#45
2-Fluorobiphenyl
Concen: 21.392 ng
RT: 9.198 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:172 Resp: 23100

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.3 | 28.3 | 42.5 |
| 170 | 23.2 | 18.8 | 28.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

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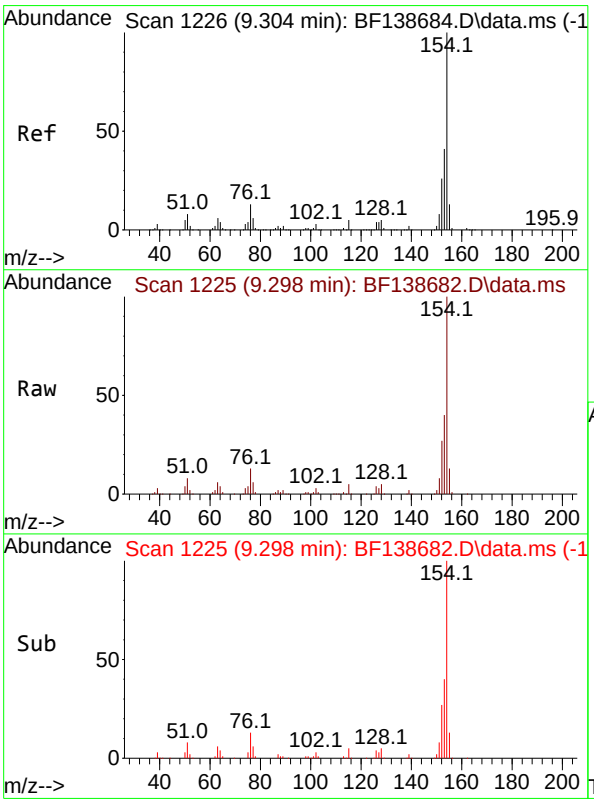
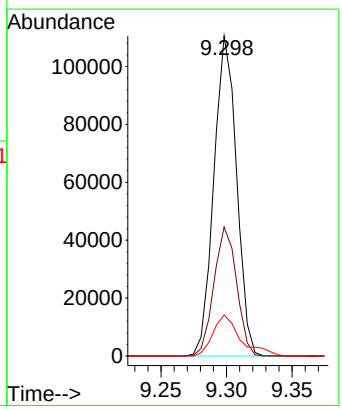
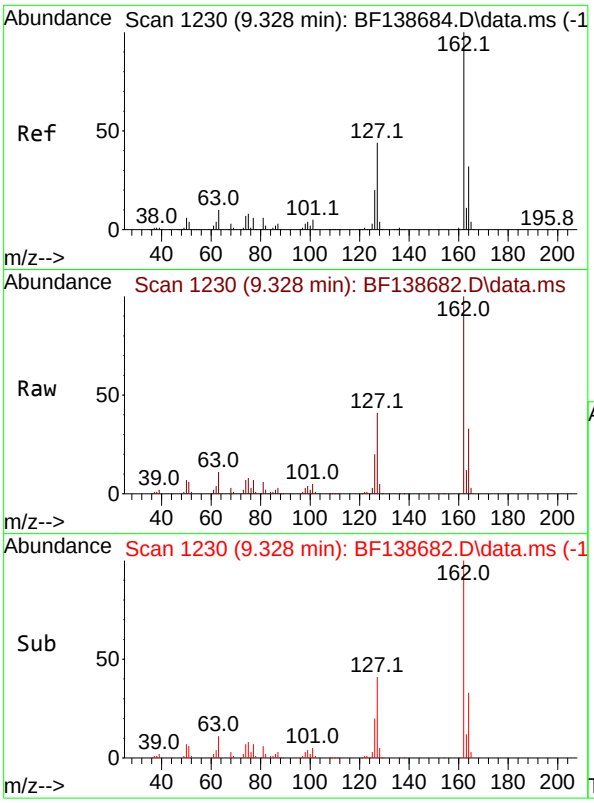



#46
1,1'-Biphenyl
Concen: 10.441 ng
RT: 9.298 min Scan# 1225
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:154 Resp: 132668

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 40.2 | 20.8 | 60.8 |
| 76 | 12.8 | 0.0 | 32.8 |

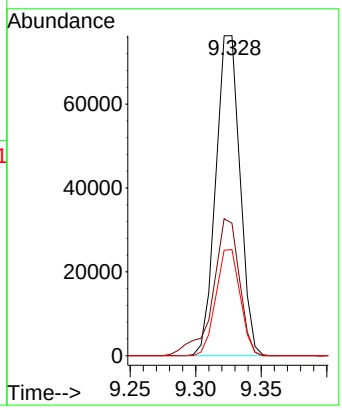





#47
2-Chloronaphthalene
Concen: 10.354 ng
RT: 9.328 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:162 Resp: 9785

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 127 | 41.4 | 35.4 | 53.2 |
| 164 | 33.1 | 25.6 | 38.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations**
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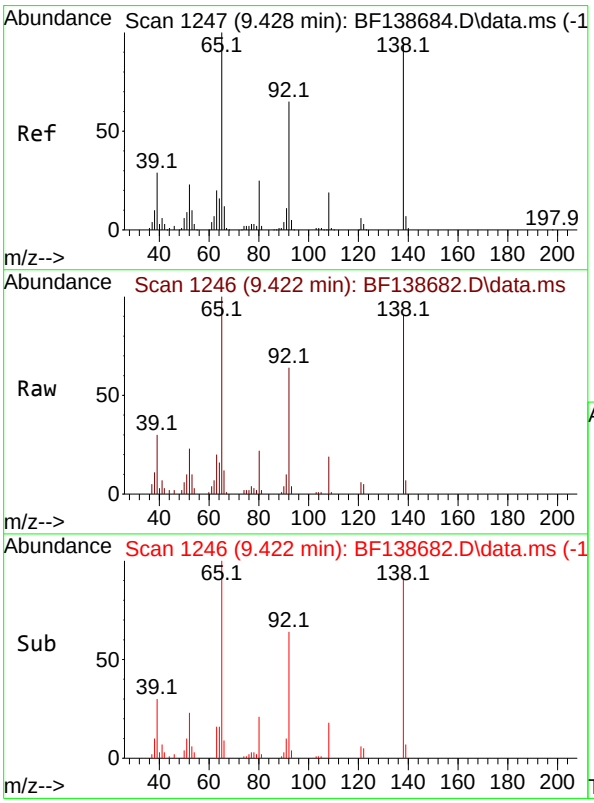
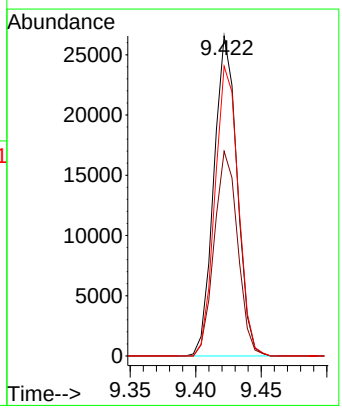
Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024

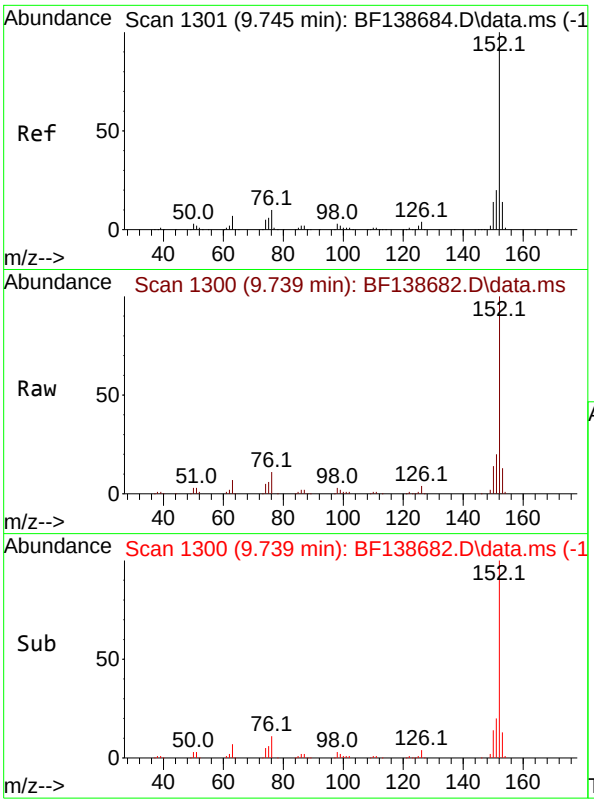



#48
2-Nitroaniline
Concen: 10.216 ng
RT: 9.422 min Scan# 1246
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion: 65 Resp: 32731

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 92 | 63.9 | 52.0 | 78.0 |
| 138 | 90.5 | 76.2 | 114.4 |

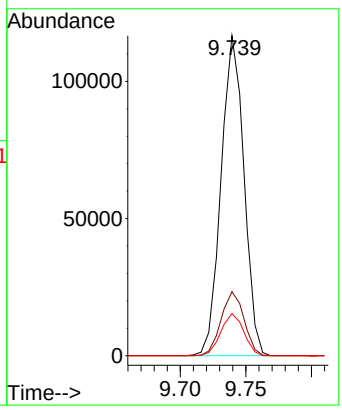





#49
Acenaphthylene
Concen: 10.552 ng
RT: 9.739 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:152 Resp: 14143

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.0 | 16.0 | 24.0 |
| 153 | 13.2 | 11.0 | 16.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

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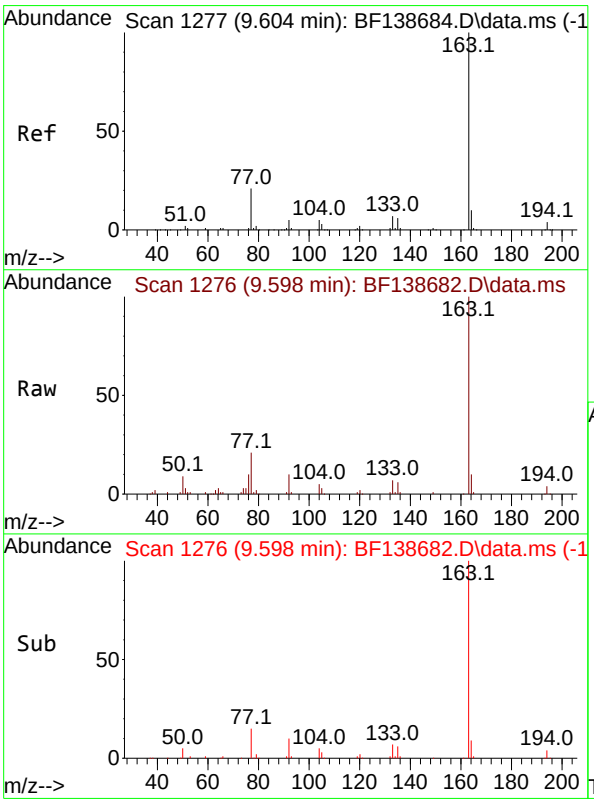
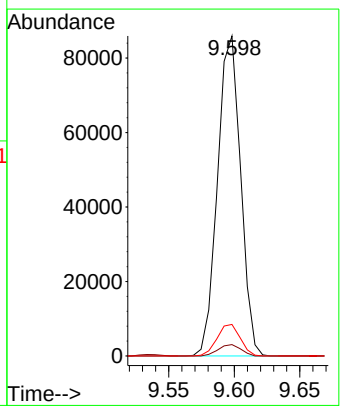
Supervised By :mohammad ahmed 07/31/2024

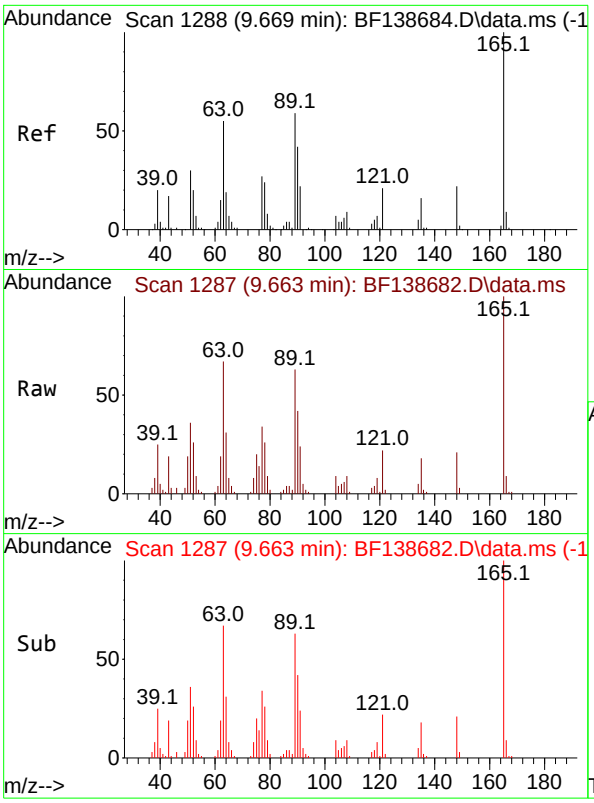



#50
Dimethylphthalate
Concen: 10.139 ng
RT: 9.598 min Scan# 1276
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:163 Resp: 105187

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 3.6 | 3.1 | 4.7 |
| 164 | 9.8 | 7.8 | 11.8 |

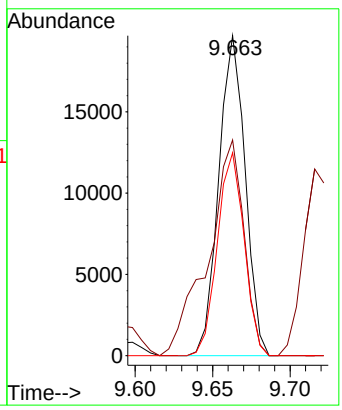





#51
2,6-Dinitrotoluene
Concen: 9.974 ng
RT: 9.663 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:165 Resp: 2335

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 67.4 | 52.0 | 78.0 |
| 89 | 63.4 | 47.0 | 70.6 |




**Instrument :**
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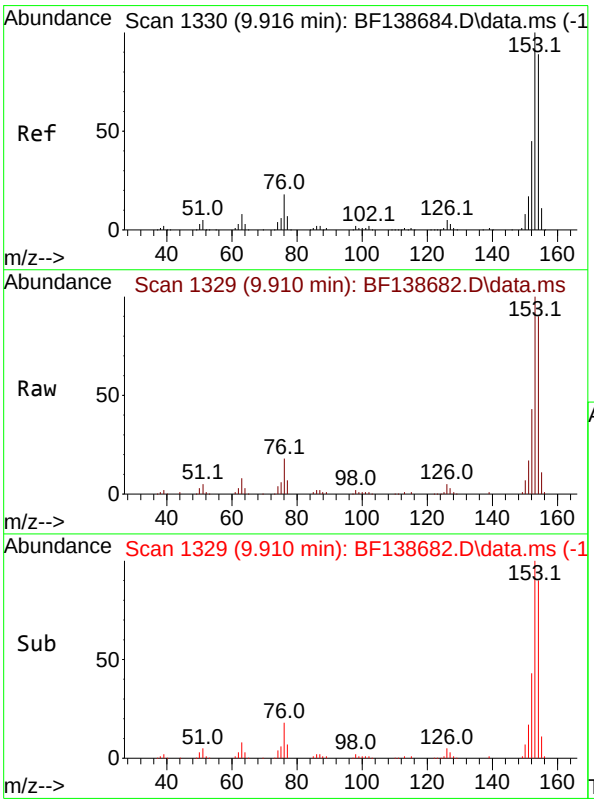
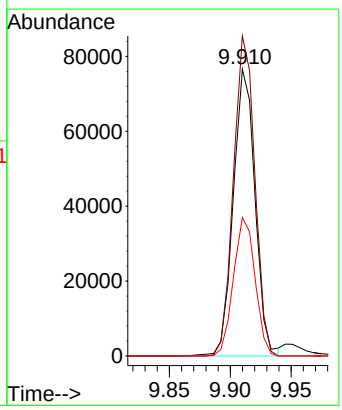
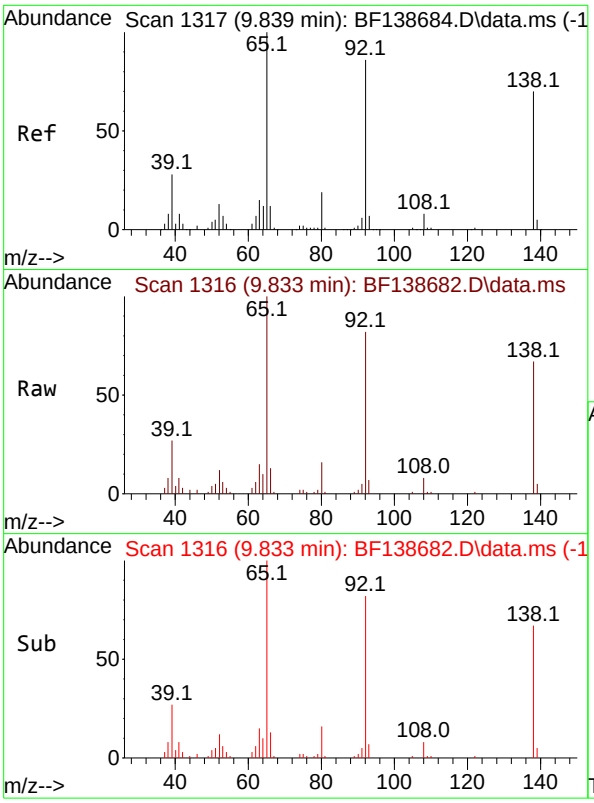



#52
Acenaphthene
Concen: 10.560 ng
RT: 9.910 min Scan# 1329
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:154 Resp: 95143

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 111.6 | 89.9 | 134.9 |
| 152 | 48.3 | 40.6 | 60.8 |






#53
3-Nitroaniline
Concen: 10.062 ng
RT: 9.833 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:138 Resp: 2435

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 108 | 11.9 | 9.1 | 13.7 |
| 92 | 122.5 | 98.7 | 148.1 |

**Instrument :**
BNA_F
**ClientSampleId :**
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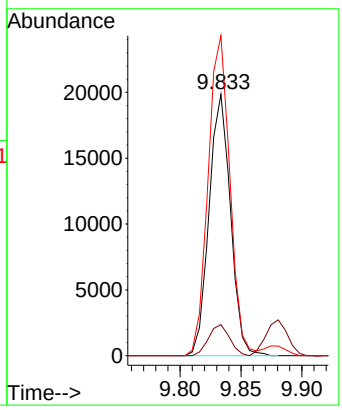
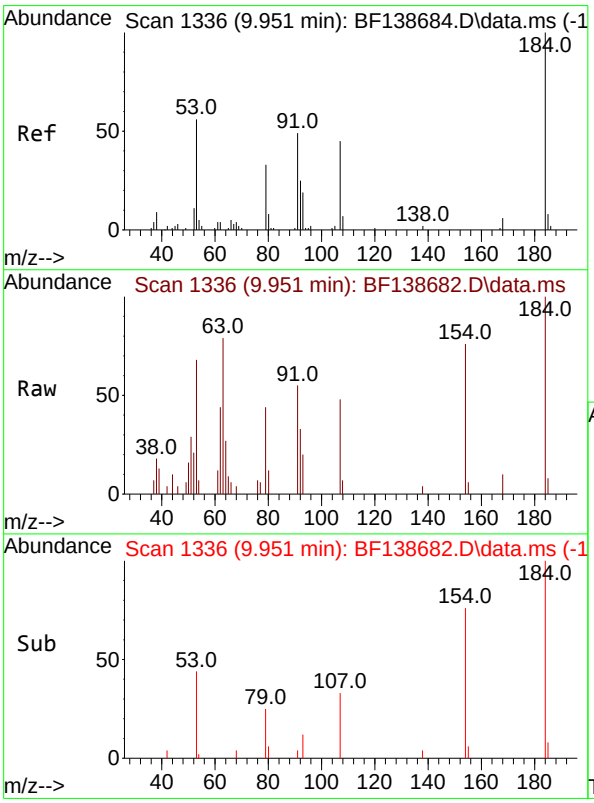
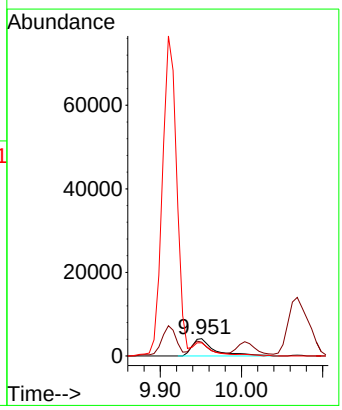


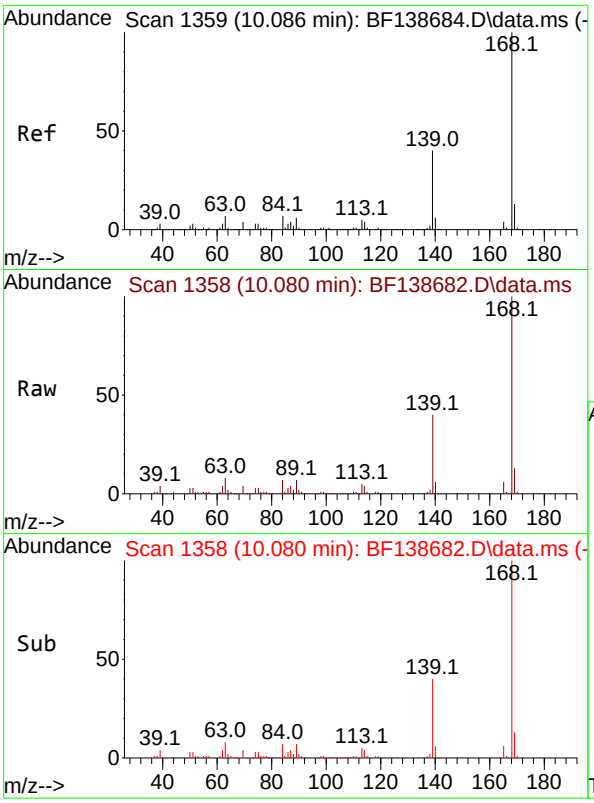




#54
2,4-Dinitrophenol
Concen: 7.337 ng
RT: 9.951 min Scan# 1336
Delta R.T. 0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:184 Resp: 7908

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 63 | 79.4 | 57.5 | 86.3 |
| 154 | 75.8 | 51.7 | 77.5 |

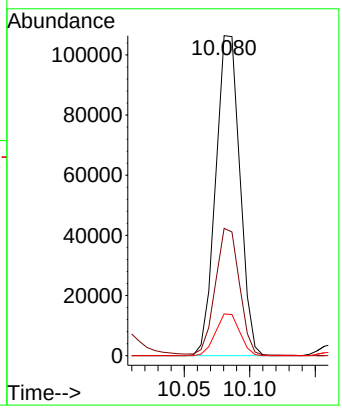





#55
Dibenzofuran
Concen: 10.717 ng
RT: 10.080 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:168 Resp: 13630

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 39.8 | 32.6 | 49.0 |
| 169 | 13.0 | 10.7 | 16.1 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

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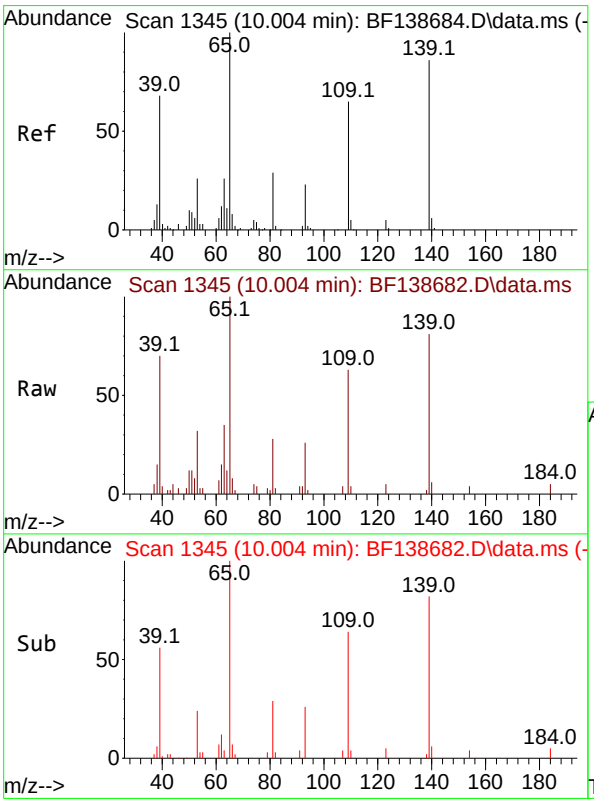
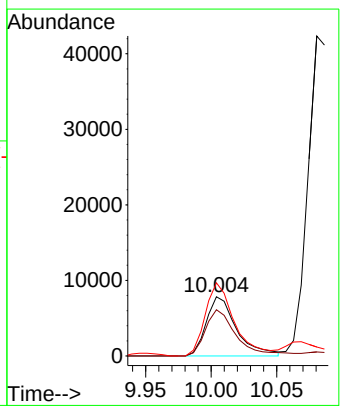
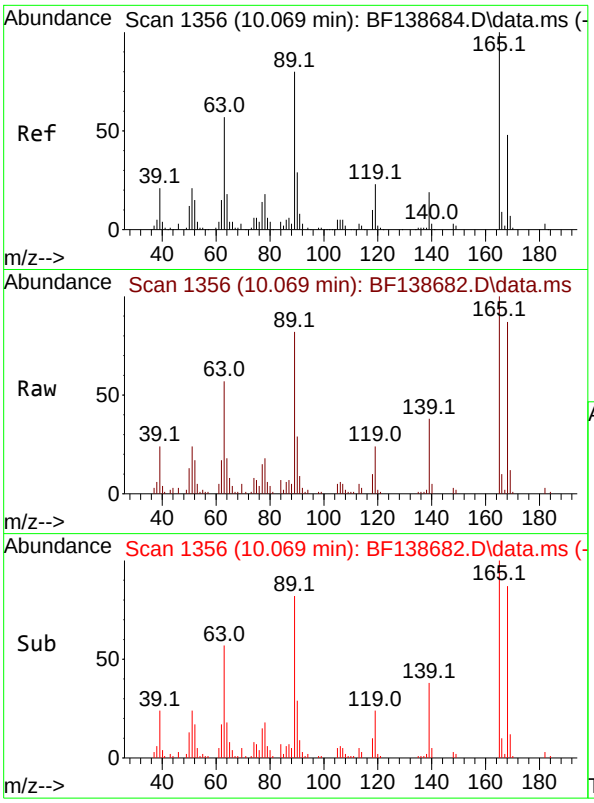



#56
4-Nitrophenol
Concen: 8.687 ng
RT: 10.004 min Scan# 1345
Delta R.T. 0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:139 Resp: 12643

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 78.0 | 55.5 | 95.5 |
| 65 | 123.5 | 96.7 | 136.7 |

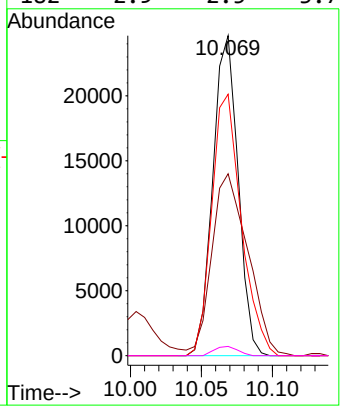





#57
2,4-Dinitrotoluene
Concen: 10.198 ng
RT: 10.069 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:165 Resp: 3046

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 56.8 | 46.3 | 69.5 |
| 89 | 81.7 | 64.2 | 96.4 |
| 182 | 2.9 | 2.5 | 3.7 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

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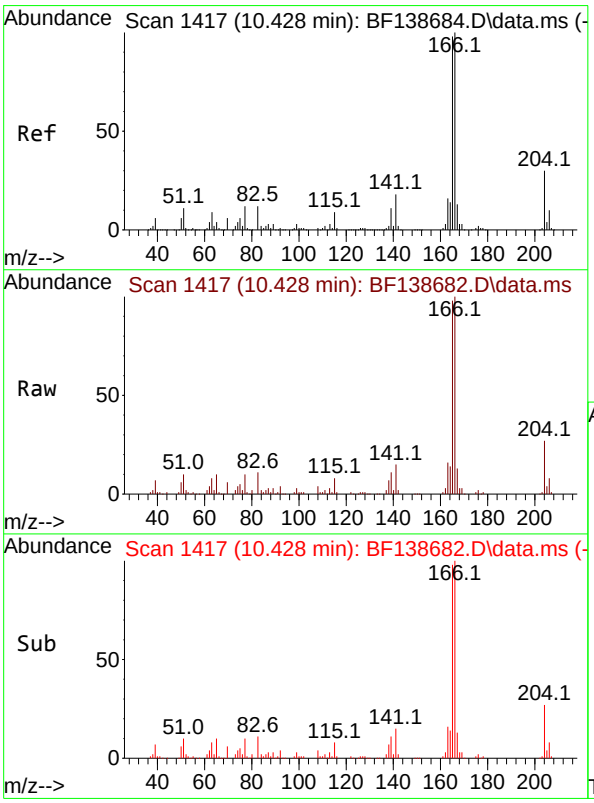
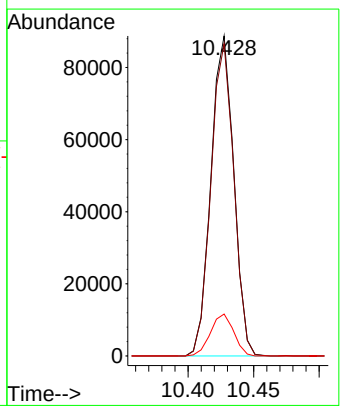
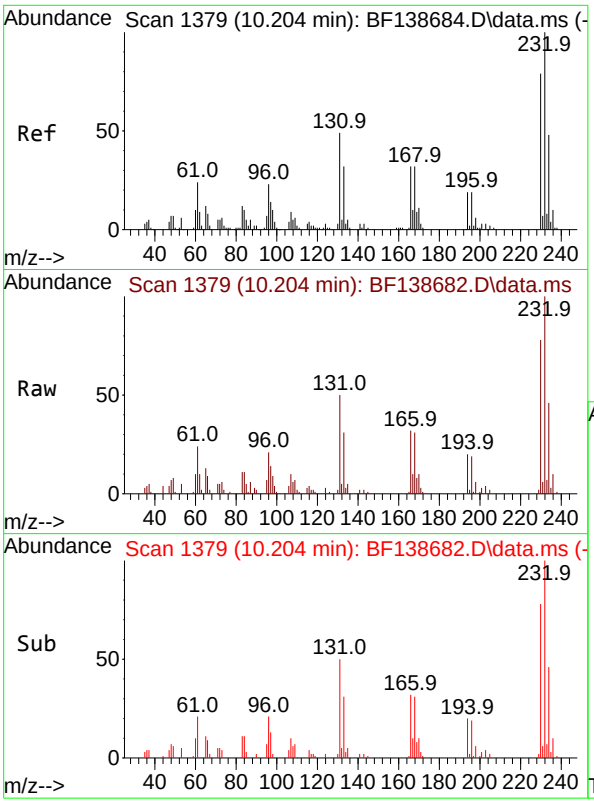



#58
Fluorene
Concen: 10.622 ng
RT: 10.428 min Scan# 1417
Delta R.T. 0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:166 Resp: 107585

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 97.6 | 78.4 | 117.6 |
| 167 | 13.1 | 10.6 | 16.0 |

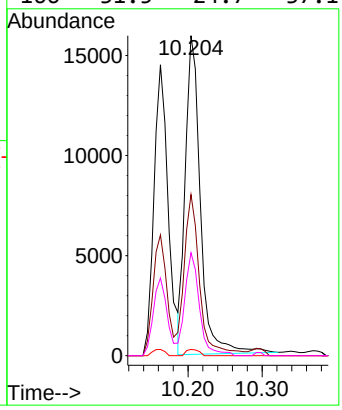





#59
2,3,4,6-Tetrachlorophenol
Concen: 9.872 ng
RT: 10.204 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:232 Resp: 2267

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 232 | 100 | | |
| 131 | 52.2 | 37.0 | 55.4 |
| 130 | 1.6 | 2.0 | 3.0# |
| 166 | 31.5 | 24.7 | 37.1 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations APPROVED**

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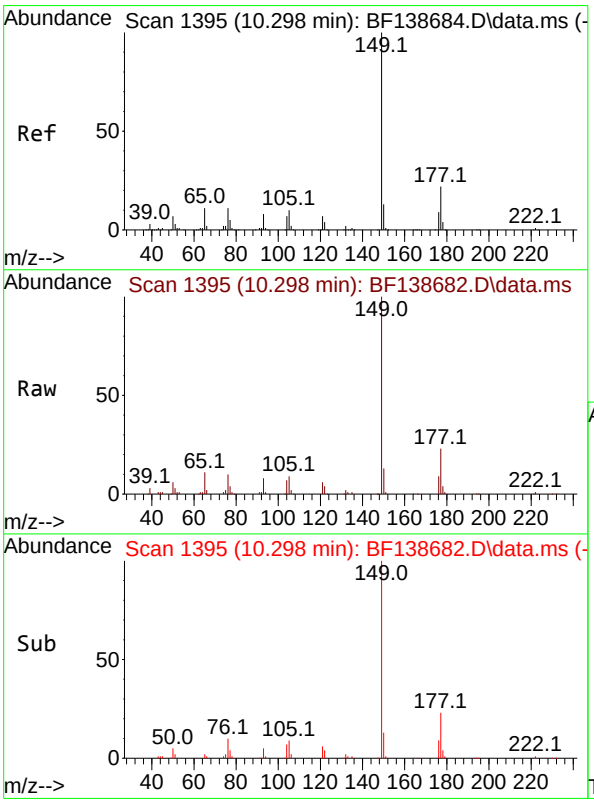
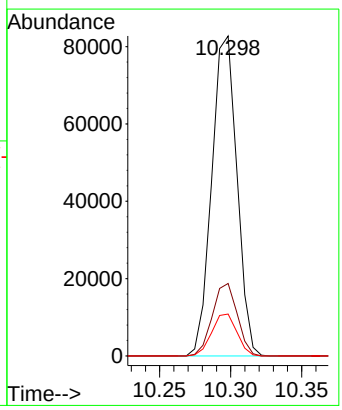
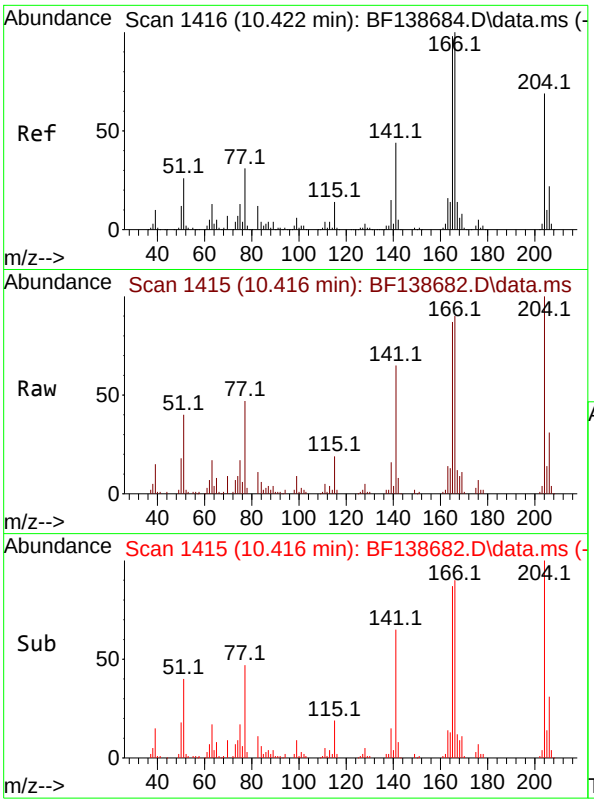



#60
Diethylphthalate
Concen: 10.381 ng
RT: 10.298 min Scan# 1395
Delta R.T. 0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:149 Resp: 102108

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 177 | 22.6 | 17.8 | 26.8 |
| 150 | 13.1 | 10.1 | 15.1 |

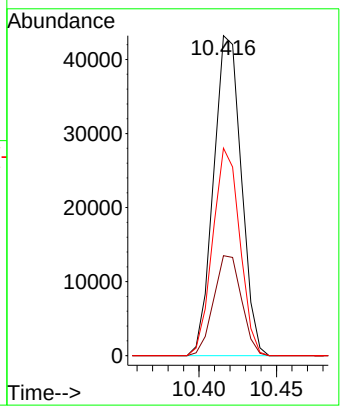





#61
4-Chlorophenyl-phenylether
Concen: 10.814 ng
RT: 10.416 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:204 Resp: 5387

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 204 | 100 | | |
| 206 | 31.3 | 26.1 | 39.1 |
| 141 | 64.8 | 51.4 | 77.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

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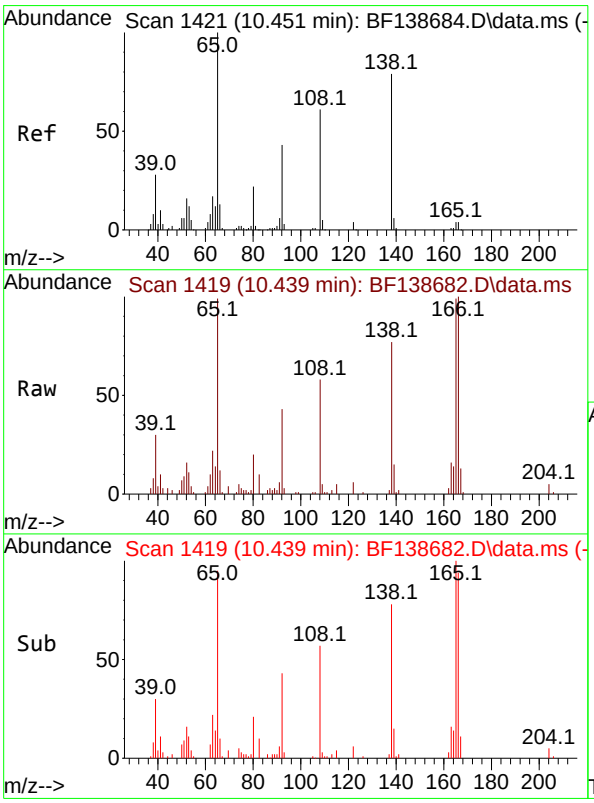
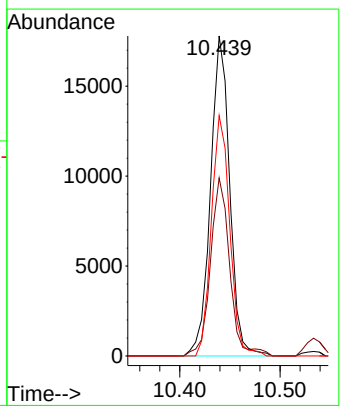
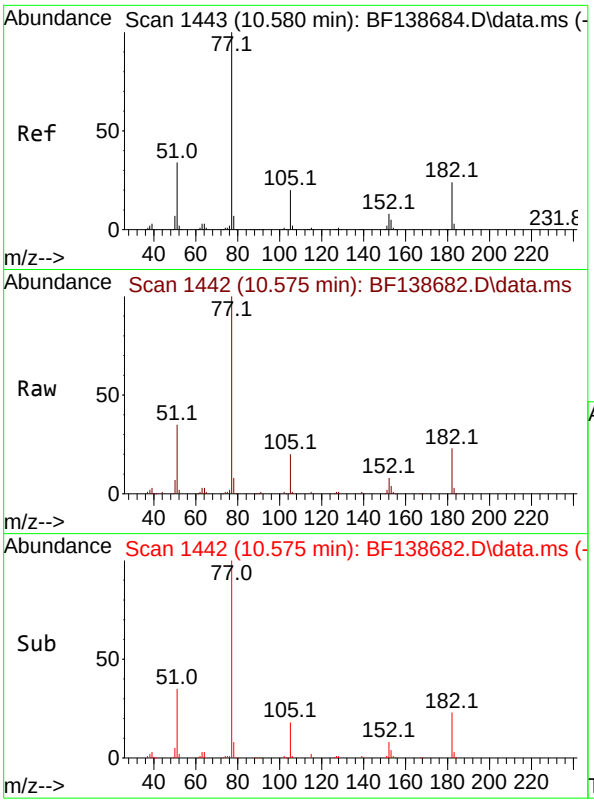



#62
4-Nitroaniline
Concen: 10.284 ng
RT: 10.439 min Scan# 1419
Delta R.T. -0.012 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:138 Resp: 23653

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 55.6 | 34.2 | 74.2 |
| 108 | 75.1 | 56.2 | 96.2 |

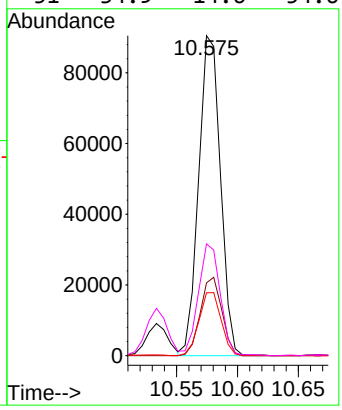





#63
Azobenzene
Concen: 10.347 ng
RT: 10.575 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion: 77 Resp: 11288

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 182 | 22.7 | 3.4 | 43.4 |
| 105 | 19.7 | 0.2 | 40.2 |
| 51 | 34.9 | 14.6 | 54.6 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations APPROVED**

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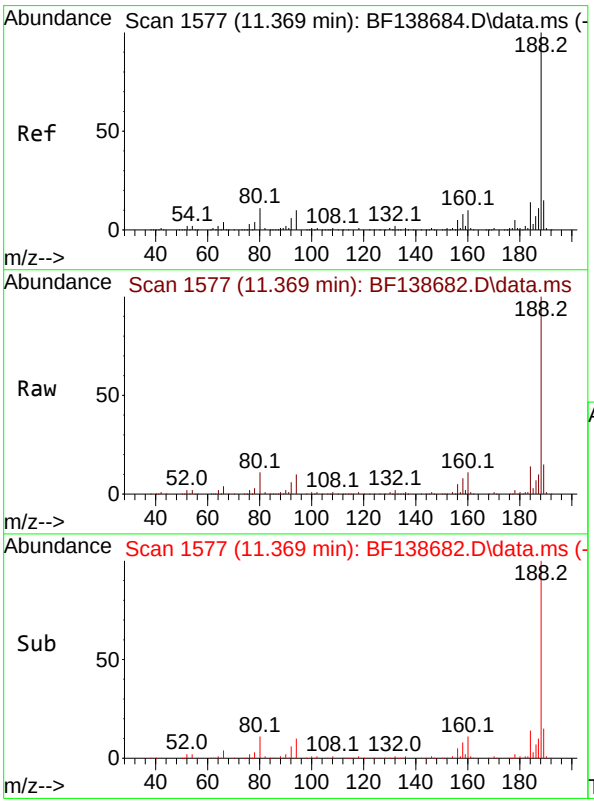
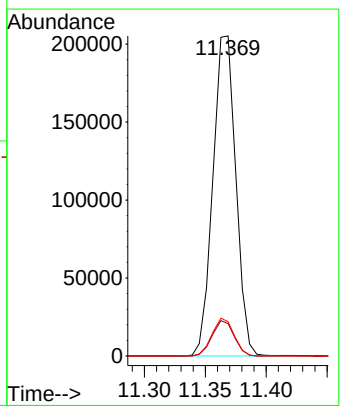
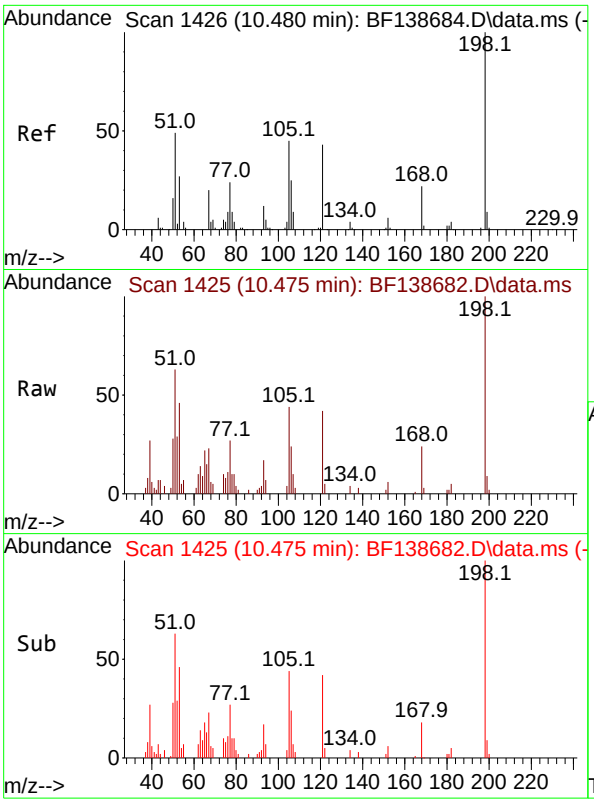



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.369 min Scan# 1577
Delta R.T. 0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:188 Resp: 269225

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 10.1 | 7.6 | 11.4 |
| 80 | 10.7 | 8.6 | 12.8 |

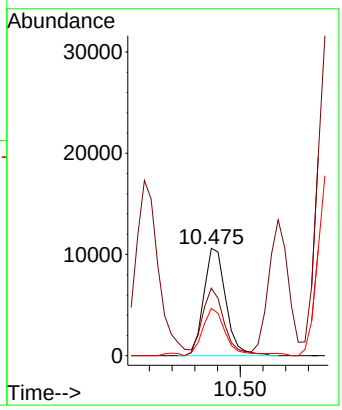





#65
4,6-Dinitro-2-methylphenol
Concen: 8.733 ng
RT: 10.475 min Scan# 14
Delta R.T. -0.005 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:198 Resp: 1434

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 62.9 | 39.9 | 79.9 |
| 105 | 43.9 | 26.1 | 66.1 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations**
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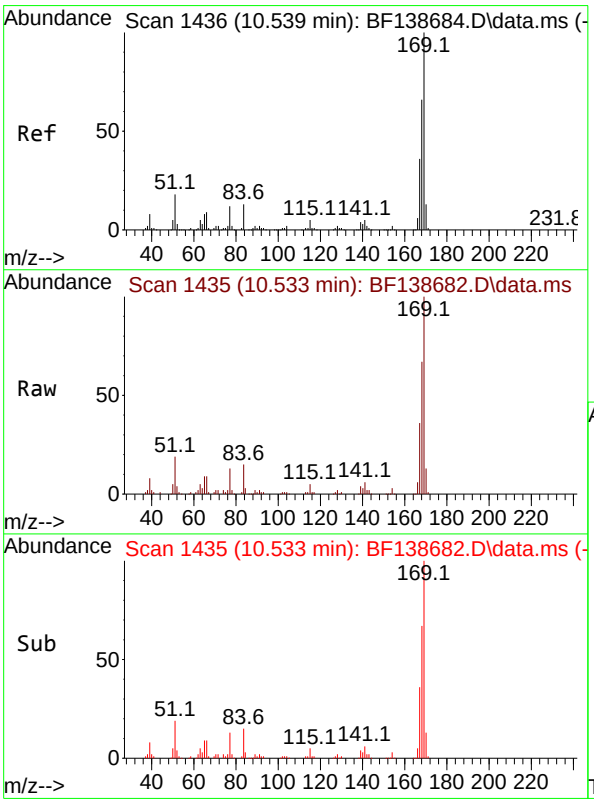
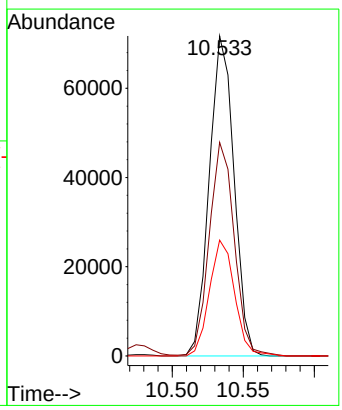
Supervised By :mohammad ahmed 07/31/2024

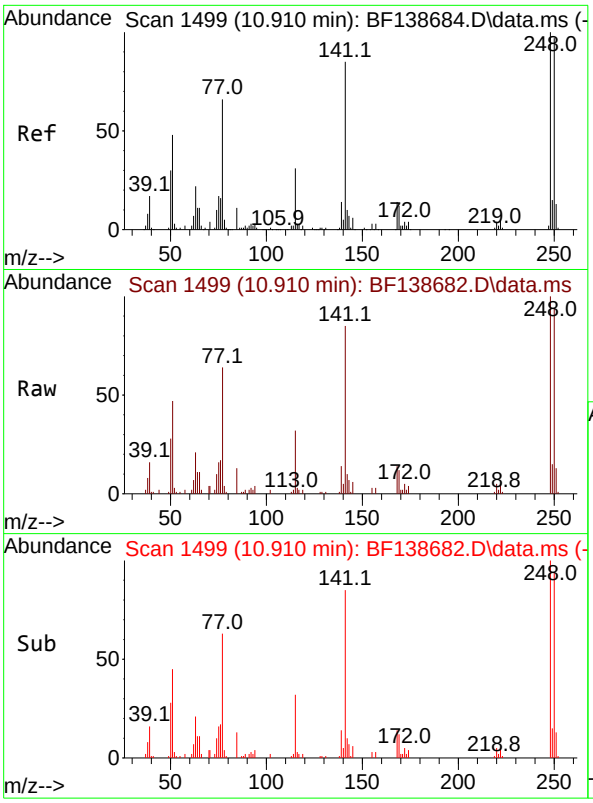



#66
n-Nitrosodiphenylamine
Concen: 10.316 ng
RT: 10.533 min Scan# 1435
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:169 Resp: 86813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 66.7 | 53.0 | 79.6 |
| 167 | 36.2 | 29.0 | 43.6 |

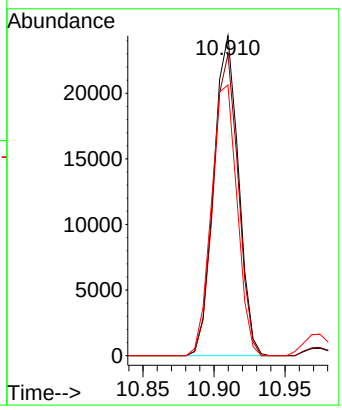





#67
4-Bromophenyl-phenylether
Concen: 10.124 ng
RT: 10.910 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:248 Resp: 2951

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 94.2 | 77.7 | 116.5 |
| 141 | 84.6 | 68.0 | 102.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations**
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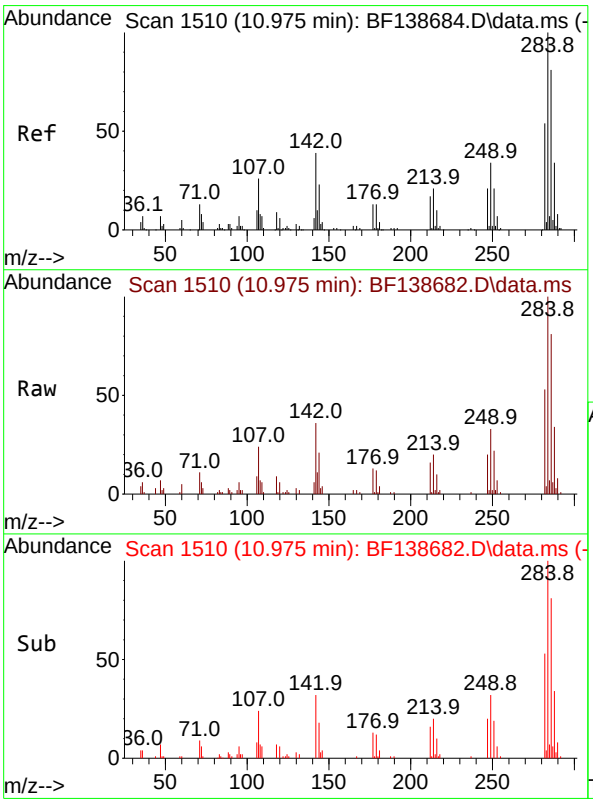
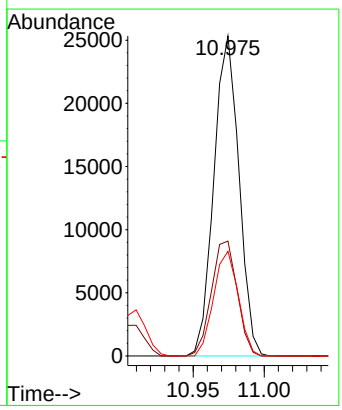
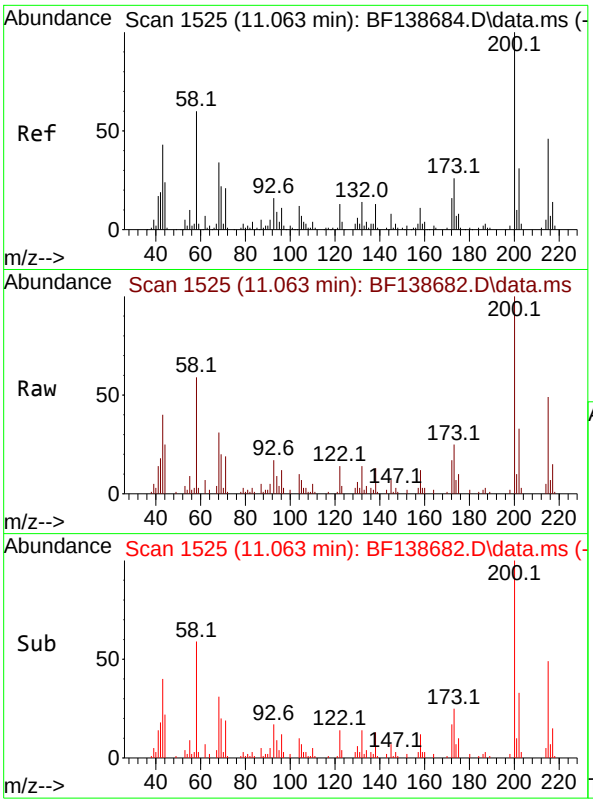



#68
Hexachlorobenzene
Concen: 10.317 ng
RT: 10.975 min Scan# 1510
Delta R.T. -0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:284 Resp: 31049

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 35.9 | 31.3 | 46.9 |
| 249 | 32.7 | 27.2 | 40.8 |

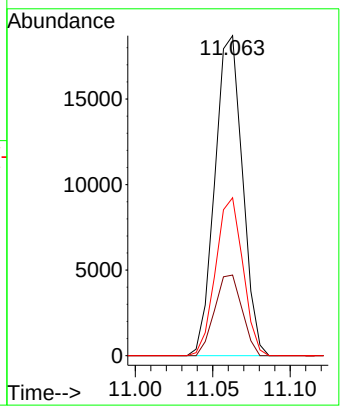





#69
Atrazine
Concen: 10.680 ng
RT: 11.063 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:200 Resp: 2318

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 25.2 | 6.0 | 46.0 |
| 215 | 49.3 | 26.1 | 66.1 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

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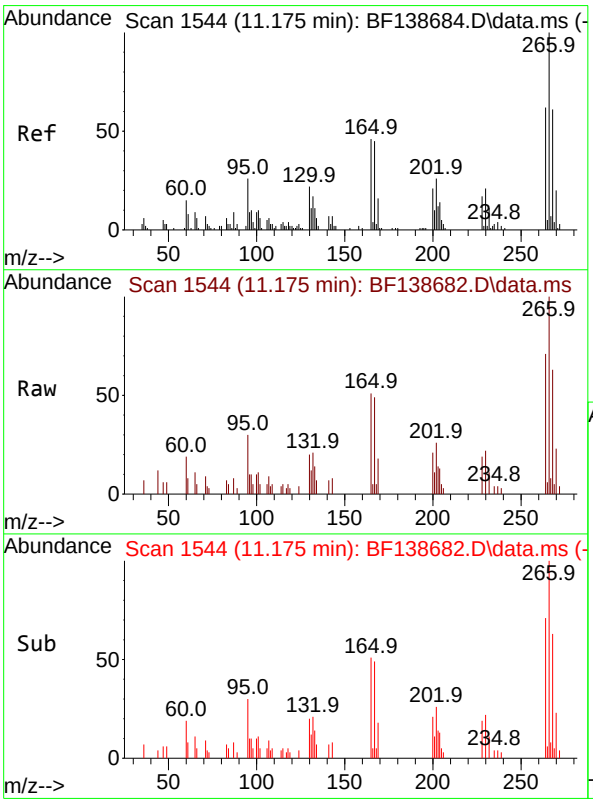
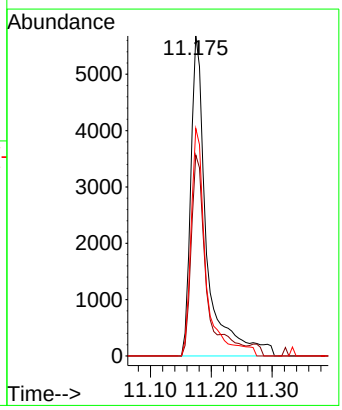
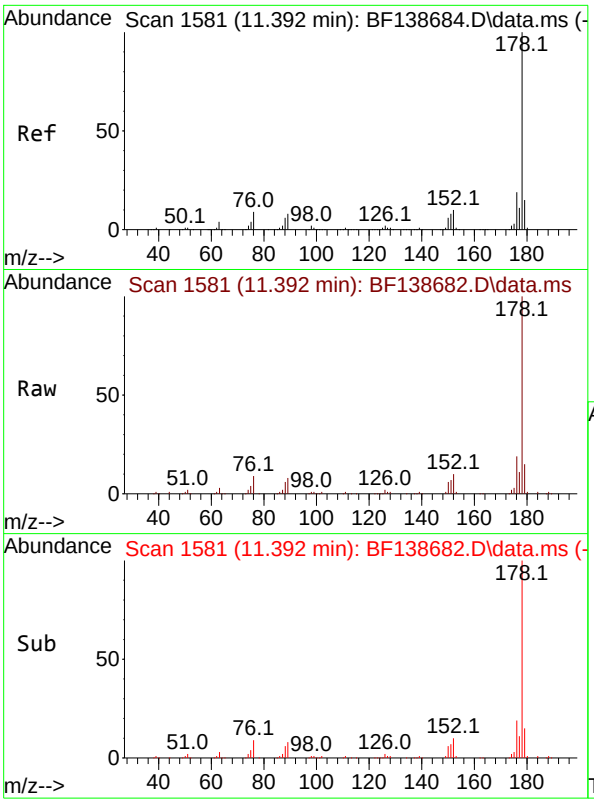



#70
Pentachlorophenol
Concen: 7.661 ng
RT: 11.175 min Scan# 1544
Delta R.T. -0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:266 Resp: 10392

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 268 | 62.8 | 49.2 | 73.8 |
| 264 | 71.1 | 49.8 | 74.6 |

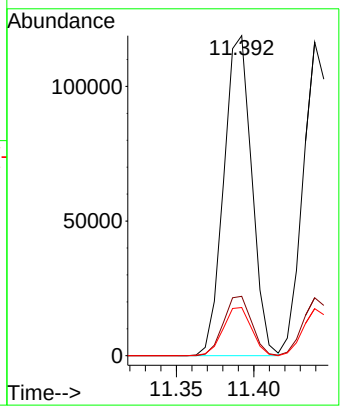





#71
Phenanthrene
Concen: 10.766 ng
RT: 11.392 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:178 Resp: 14925

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.6 | 15.4 | 23.0 |
| 179 | 15.1 | 12.2 | 18.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations**
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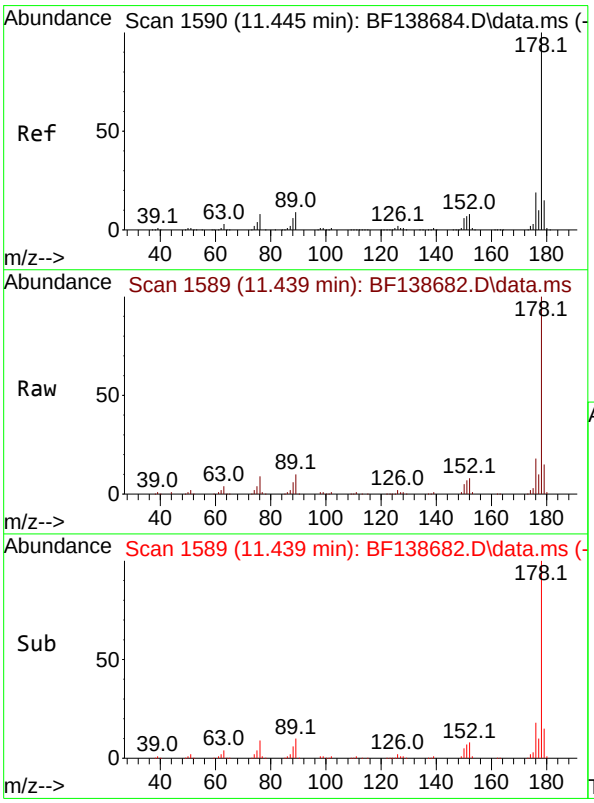
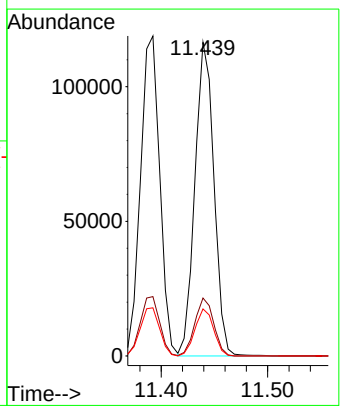
Supervised By :mohammad ahmed 07/31/2024

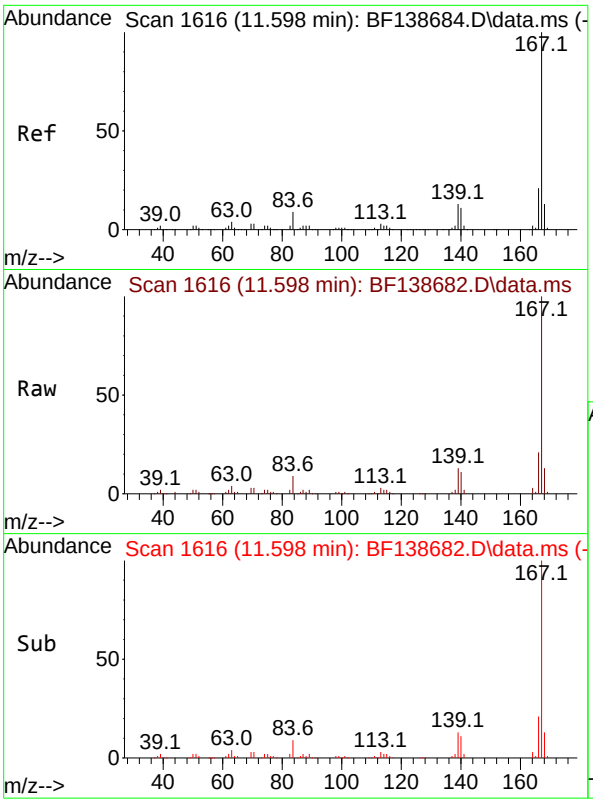



#72
Anthracene
Concen: 10.620 ng
RT: 11.439 min Scan# 1589
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:178 Resp: 145043

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.5 | 14.9 | 22.3 |
| 179 | 15.0 | 12.4 | 18.6 |

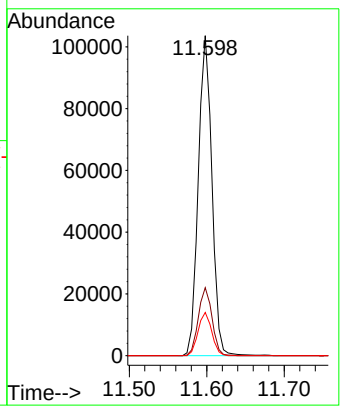





#73
Carbazole
Concen: 10.721 ng
RT: 11.598 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:167 Resp: 12632

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 21.3 | 17.2 | 25.8 |
| 139 | 13.5 | 10.6 | 16.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

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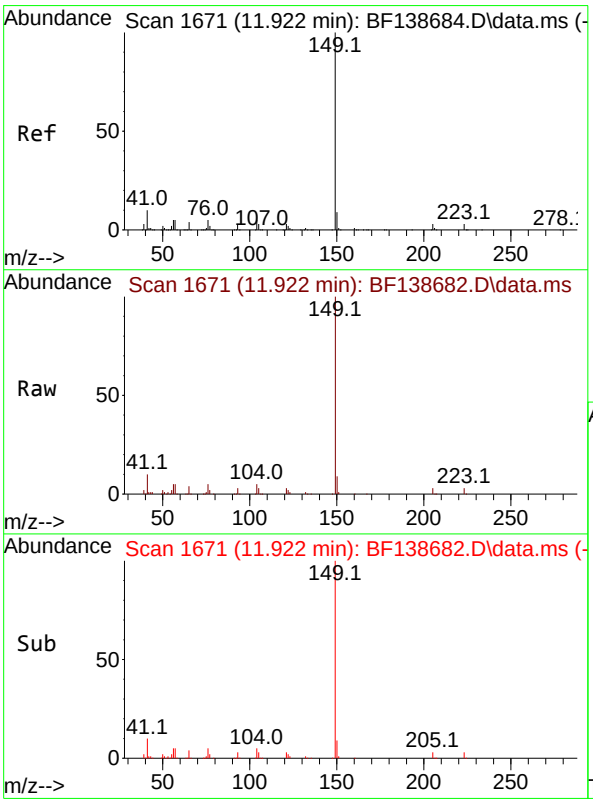
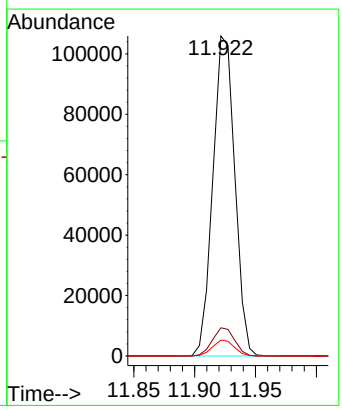
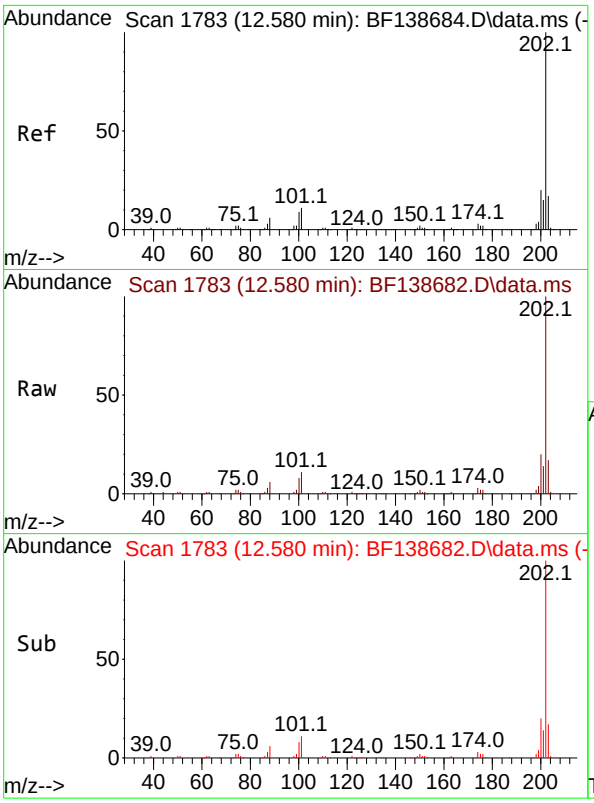



#74
Di-n-butylphthalate
Concen: 10.060 ng
RT: 11.922 min Scan# 1671
Delta R.T. -0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:149 Resp: 133246

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 8.8 | 7.4 | 11.0 |
| 104 | 5.0 | 4.1 | 6.1 |

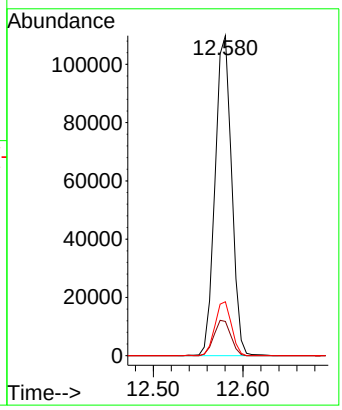





#75
Fluoranthene
Concen: 10.871 ng
RT: 12.580 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:202 Resp: 14069

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 10.7 | 0.0 | 31.2 |
| 203 | 16.8 | 0.0 | 37.3 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

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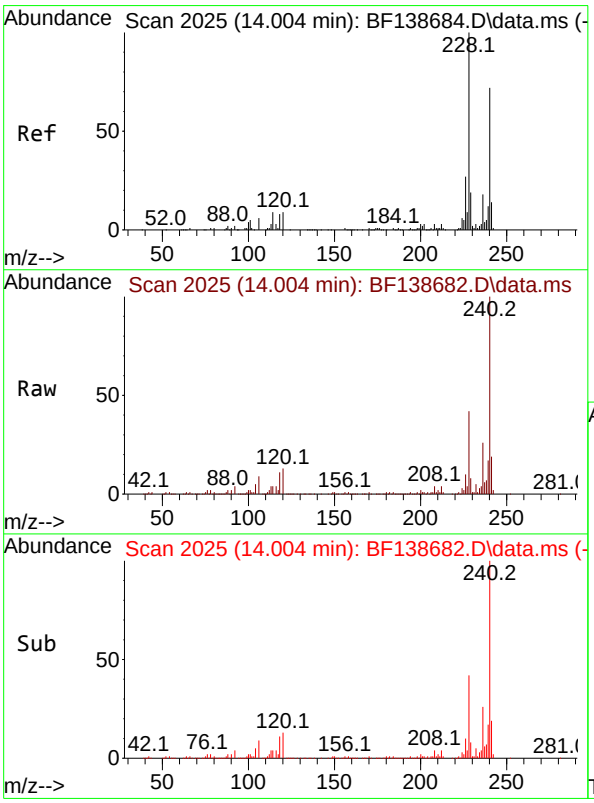
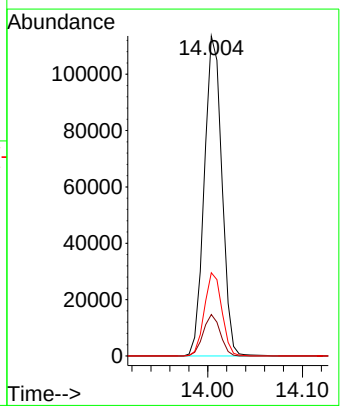
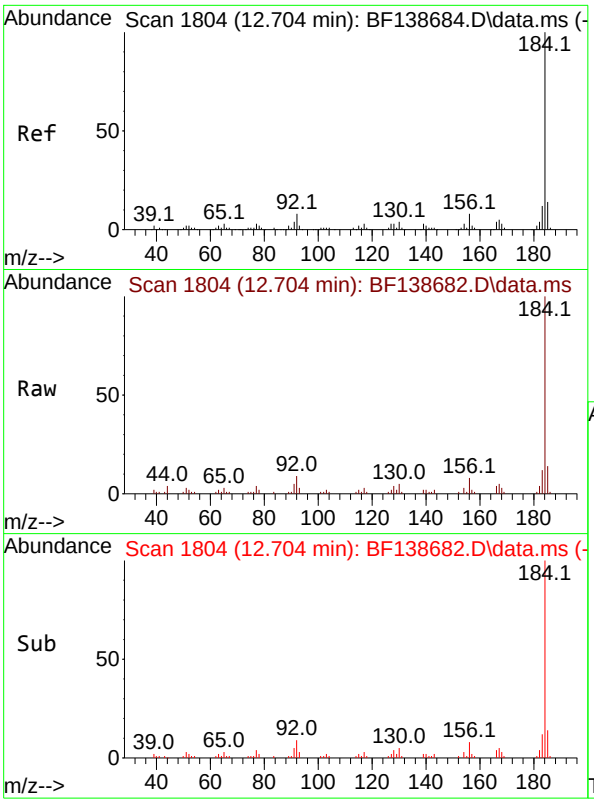



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.004 min Scan# 2025
Delta R.T. -0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:240 Resp: 146258

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 13.0 | 10.2 | 15.4 |
| 236 | 26.0 | 19.8 | 29.8 |

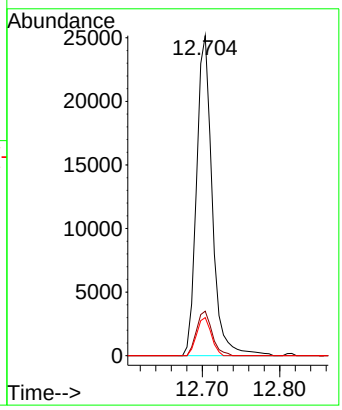





#77
Benzidine
Concen: 10.080 ng
RT: 12.704 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:184 Resp: 3526

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 185 | 13.9 | 11.1 | 16.7 |
| 183 | 11.9 | 9.6 | 14.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

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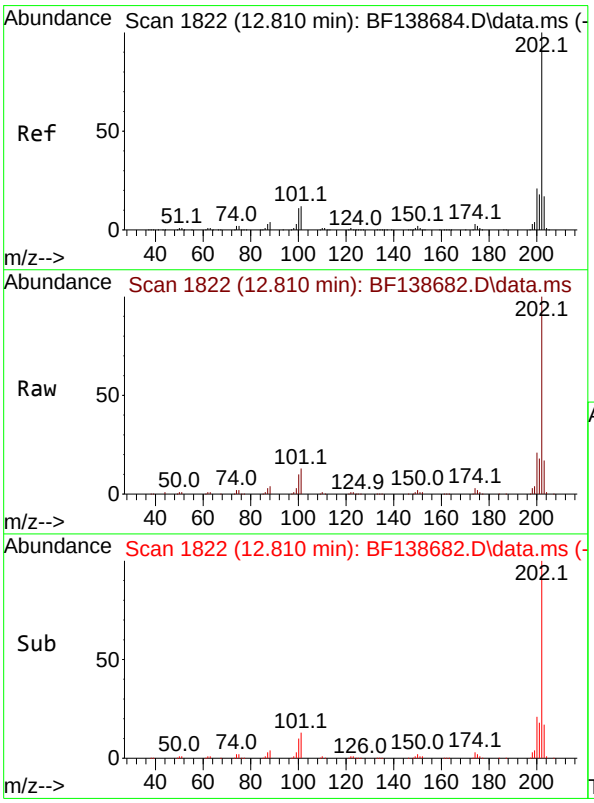
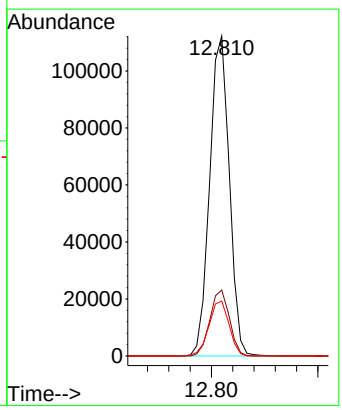
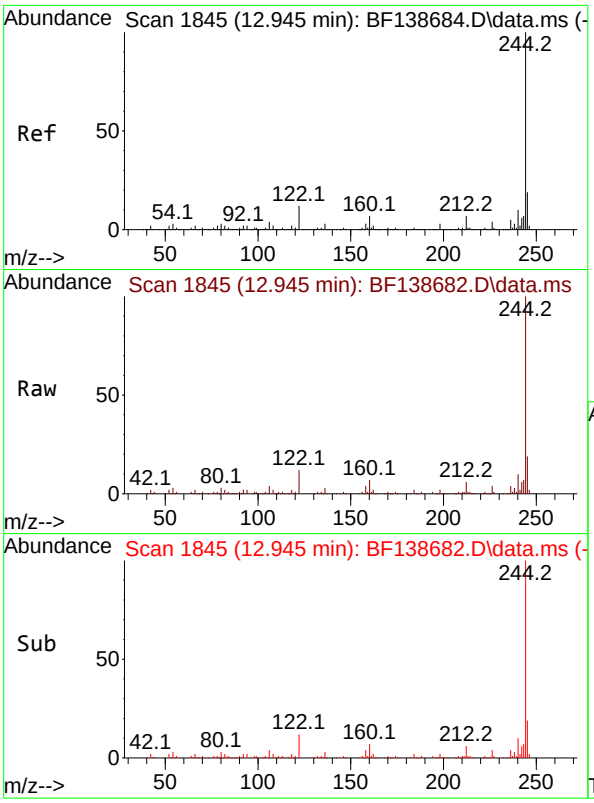



#78
Pyrene
Concen: 10.400 ng
RT: 12.810 min Scan# 1822
Delta R.T. 0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:202 Resp: 143221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.6 | 16.8 | 25.2 |
| 203 | 17.2 | 13.8 | 20.6 |

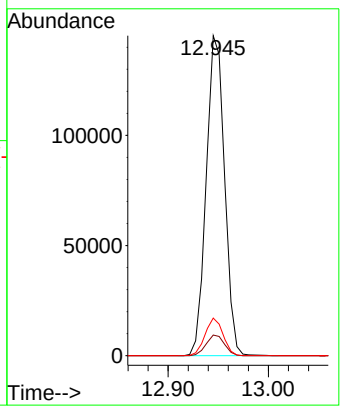





#79
Terphenyl-d14
Concen: 21.187 ng
RT: 12.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:244 Resp: 18507

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 6.5 | 5.4 | 8.2 |
| 122 | 11.8 | 9.6 | 14.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations**
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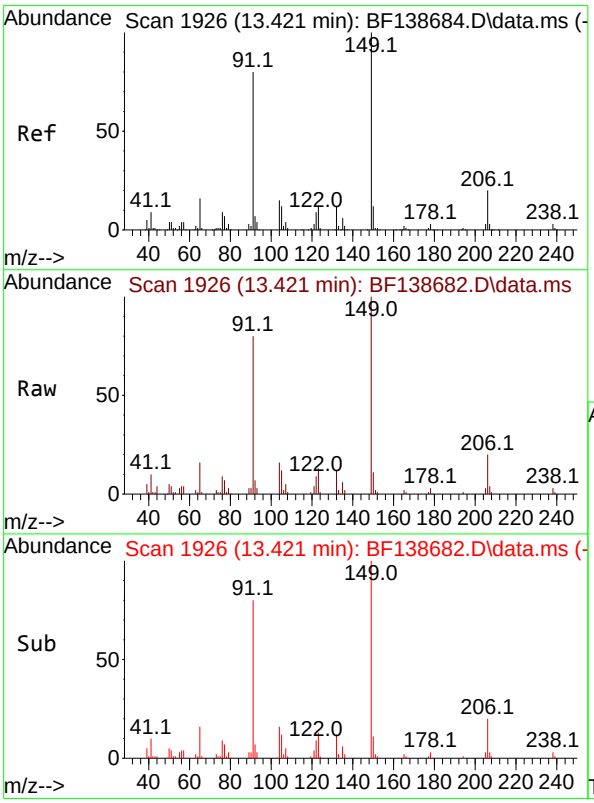
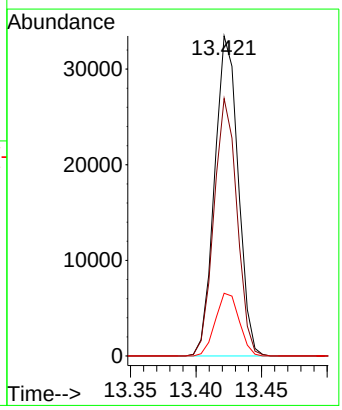
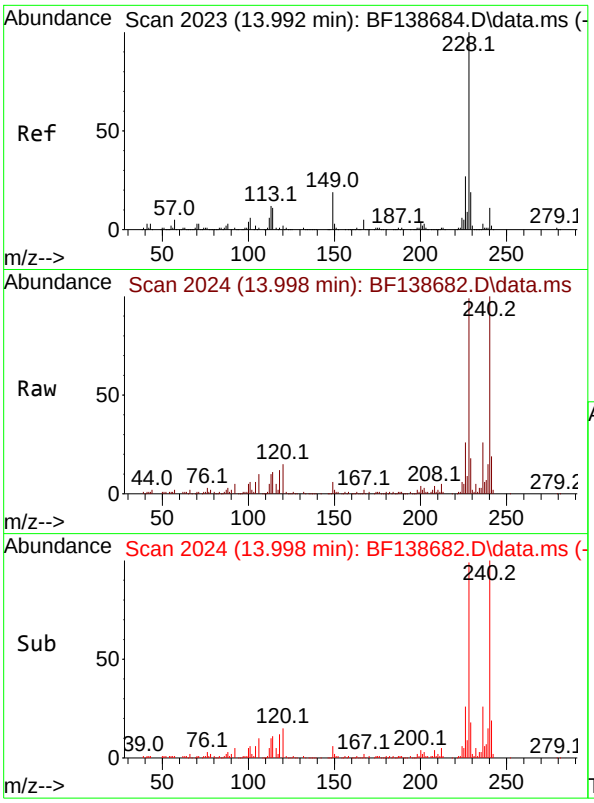



#80
Butylbenzylphthalate
Concen: 9.472 ng
RT: 13.421 min Scan# 1926
Delta R.T. -0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:149 Resp: 41771

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 91 | 80.4 | 63.7 | 95.5 |
| 206 | 19.6 | 16.2 | 24.2 |

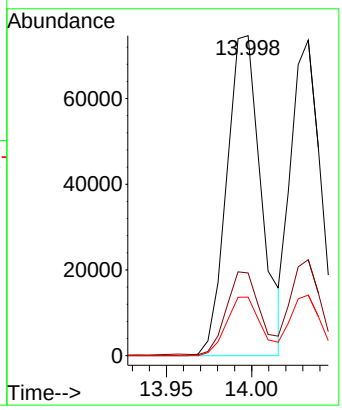





#81
Benzo(a)anthracene
Concen: 10.444 ng
RT: 13.998 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:228 Resp: 10518

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 25.8 | 22.1 | 33.1 |
| 229 | 18.3 | 15.4 | 23.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

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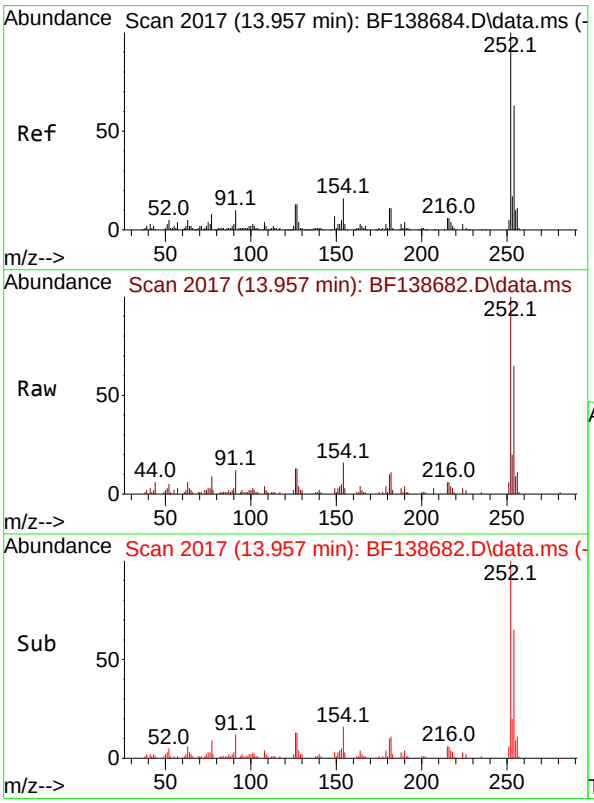
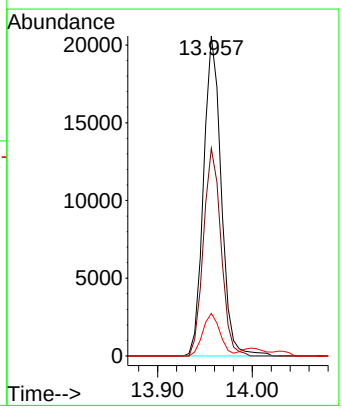
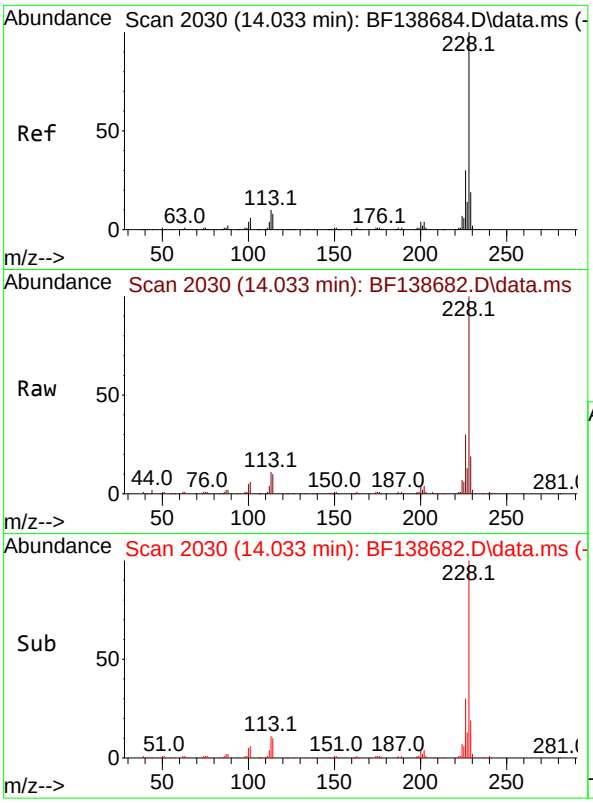



#82
3,3'-Dichlorobenzidine
Concen: 10.314 ng
RT: 13.957 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:252 Resp: 26584

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 64.9 | 50.8 | 76.2 |
| 126 | 13.3 | 10.2 | 15.2 |

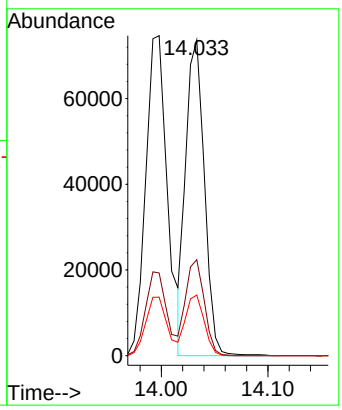





#83
Chrysene
Concen: 9.881 ng
RT: 14.033 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:228 Resp: 8978

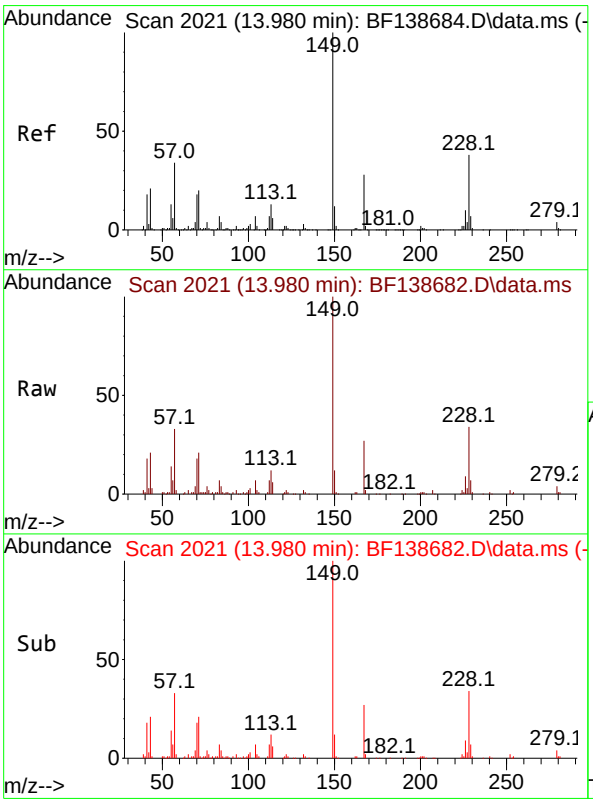
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.4 | 23.7 | 35.5 |
| 229 | 19.2 | 15.0 | 22.6 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations**
**APPROVED**

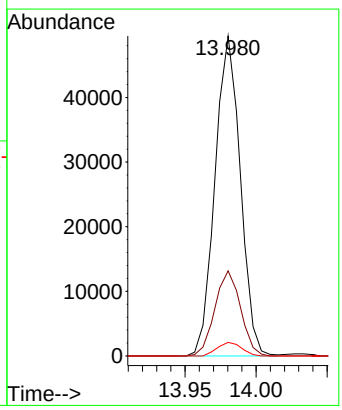
Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024

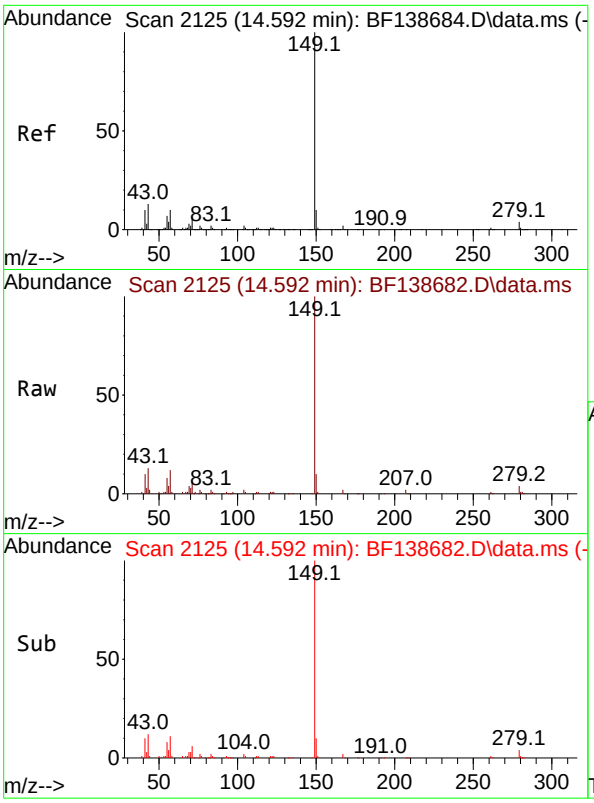



#84
Bis(2-ethylhexyl)phthalate
Concen: 9.495 ng
RT: 13.980 min Scan# 2021
Delta R.T. 0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:149 Resp: 61314

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.6 | 22.2 | 33.4 |
| 279 | 4.3 | 3.4 | 5.0 |






#85
Di-n-octyl phthalate
Concen: 9.329 ng
RT: 14.592 min Scan# 21
Delta R.T. -0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

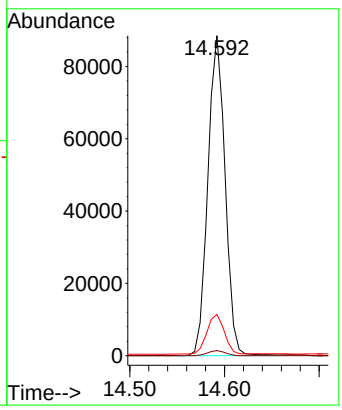
Tgt Ion:149 Resp: 11146

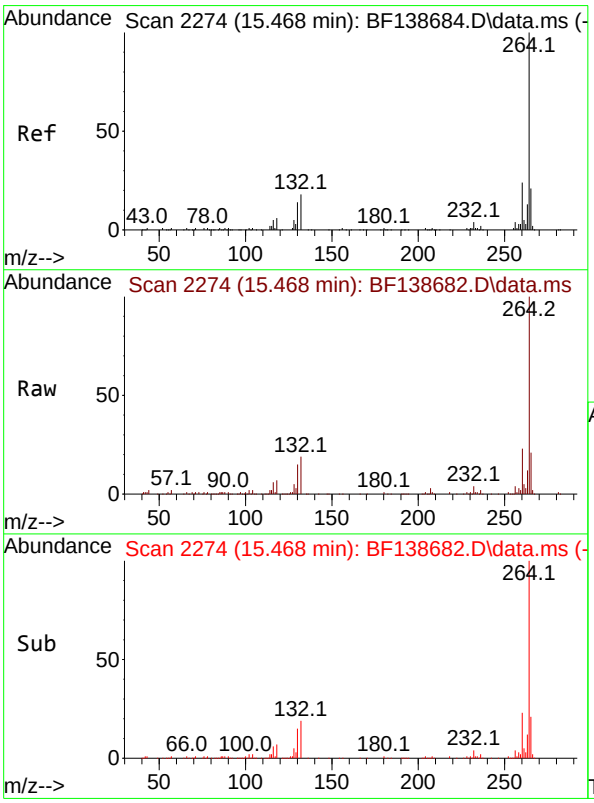
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 1.6 | 1.4 | 2.0 |
| 43 | 12.8 | 10.4 | 15.6 |

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024

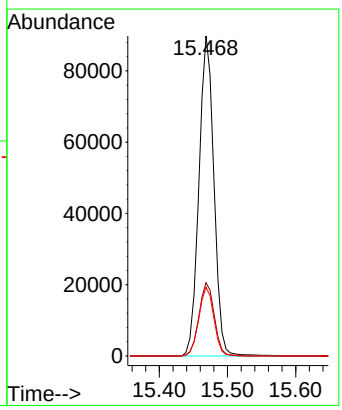


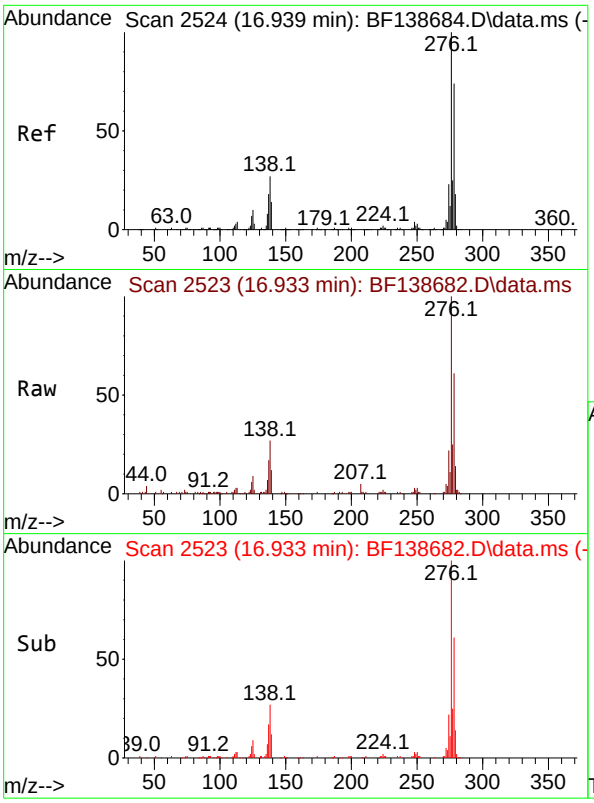




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.468 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:264 Resp: 137026

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 22.9 | 19.0 | 28.6 |
| 265 | 21.5 | 17.0 | 25.6 |

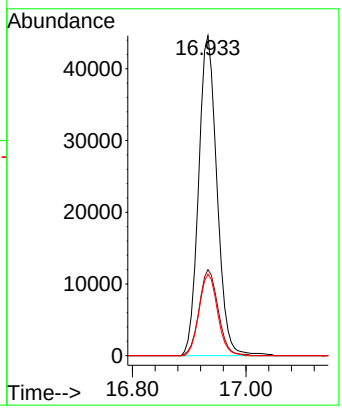





#87
Indeno(1,2,3-cd)pyrene
Concen: 10.215 ng
RT: 16.933 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:276 Resp: 10031

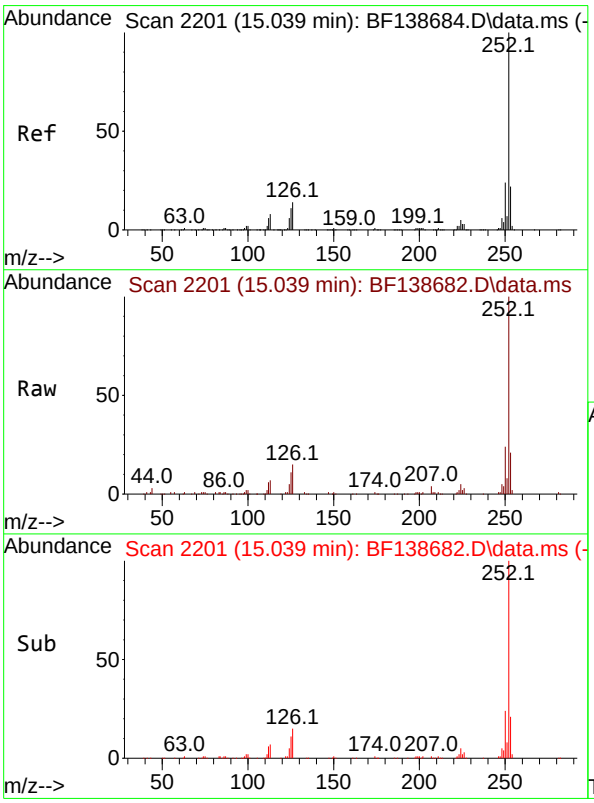
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 27.7 | 21.8 | 32.8 |
| 277 | 25.5 | 20.6 | 30.8 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations APPROVED**

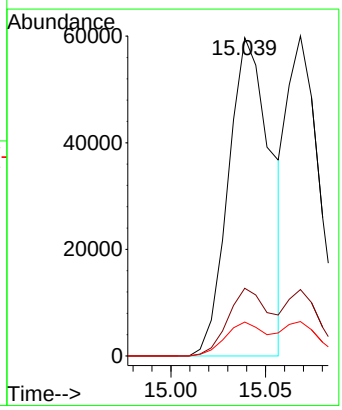
Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024

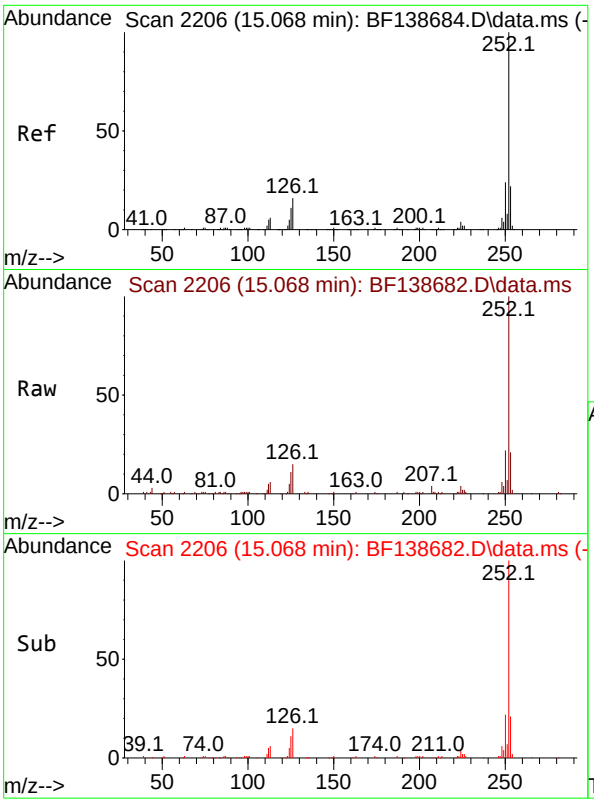



#88
Benzo(b)fluoranthene
Concen: 10.980 ng
RT: 15.039 min Scan# 2201
Delta R.T. 0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:252 Resp: 93263

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.2 | 17.5 | 26.3 |
| 125 | 10.7 | 8.9 | 13.3 |

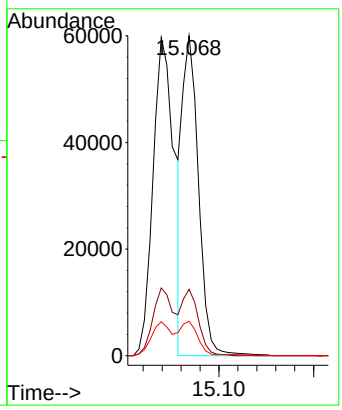





#89
Benzo(k)fluoranthene
Concen: 9.717 ng
RT: 15.068 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:252 Resp: 7146

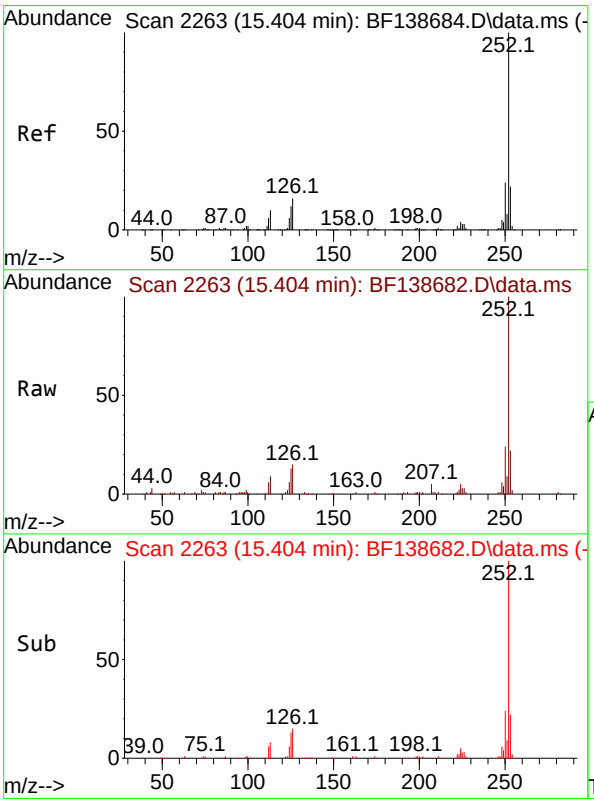
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 20.8 | 17.4 | 26.0 |
| 125 | 10.7 | 8.6 | 13.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations**
**APPROVED**

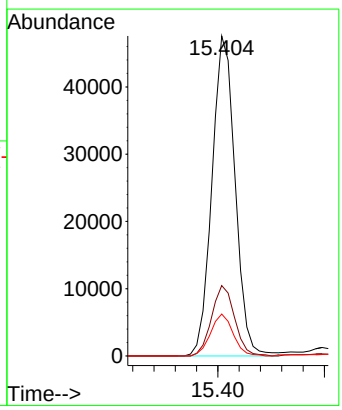
Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024

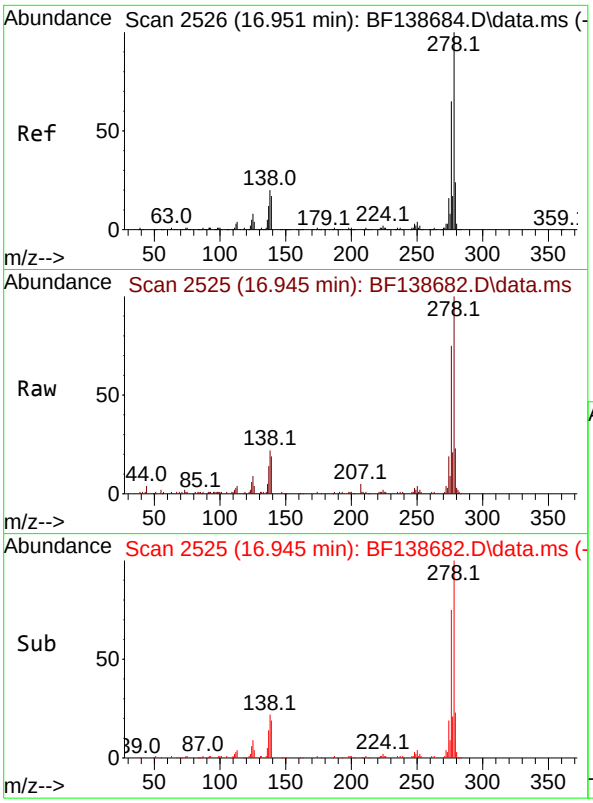



#90
Benzo(a)pyrene
Concen: 10.038 ng
RT: 15.404 min Scan# 2263
Delta R.T. 0.000 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:252 Resp: 71724

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.0 | 17.3 | 25.9 |
| 125 | 13.1 | 9.5 | 14.3 |

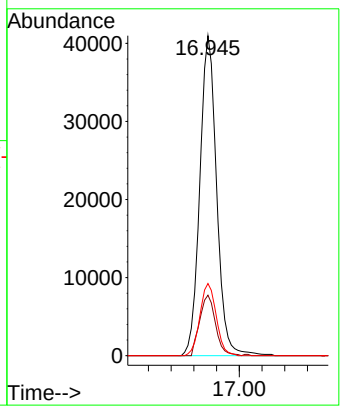





#91
Dibenzo(a,h)anthracene
Concen: 10.465 ng
RT: 16.945 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:278 Resp: 8435

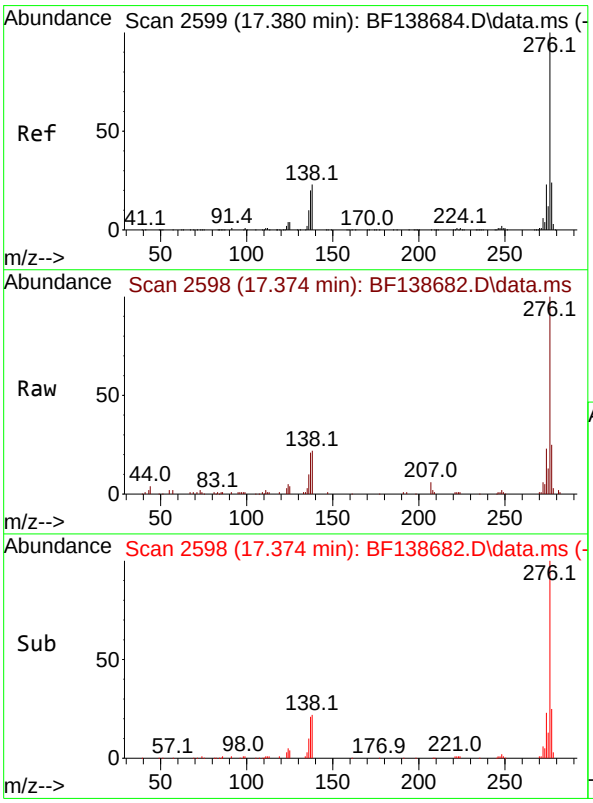
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 18.9 | 14.0 | 21.0 |
| 279 | 22.6 | 19.0 | 28.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations APPROVED**

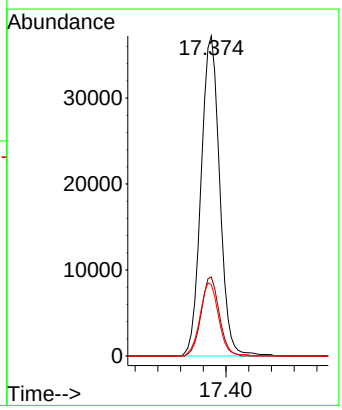
Reviewed By :Yogesh Patel 07/31/2024
Supervised By :mohammad ahmed 07/31/2024




#92
Benzo(g,h,i)perylene
Concen: 10.110 ng
RT: 17.374 min Scan# 2598
Delta R.T. -0.006 min
Lab File: BF138682.D
Acq: 30 Jul 2024 13:56

Tgt Ion:276 Resp: 84564

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 24.7 | 19.0 | 28.4 |
| 138 | 22.3 | 18.5 | 27.7 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138683.D
Acq On : 30 Jul 2024 14:25
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

Quant Time: Jul 30 17:43:45 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:38:59 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.846 | 152 | 73859 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 8.128 | 136 | 300790 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 9.881 | 164 | 166031 | 20.000 | ng | 0.00 |
| 64) Phenanthrene-d10 | 11.369 | 188 | 283009 | 20.000 | ng | 0.00 |
| 76) Chrysene-d12 | 14.010 | 240 | 137400 | 20.000 | ng | 0.00 |
| 86) Perylene-d12 | 15.469 | 264 | 137093 | 20.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.463 | 112 | 198160 | 41.415 | ng | 0.00 |
| 7) Phenol-d6 | 6.481 | 99 | 269991 | 42.029 | ng | 0.00 |
| 23) Nitrobenzene-d5 | 7.410 | 82 | 255192 | 41.480 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.669 | 330 | 58374 | 42.922 | ng | 0.00 |
| 45) 2-Fluorobiphenyl | 9.198 | 172 | 465641 | 42.138 | ng | 0.00 |
| 79) Terphenyl-d14 | 12.951 | 244 | 374162 | 45.593 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.587 | 88 | 42900 | 20.480 | ng | 99 |
| 3) Pyridine | 3.346 | 79 | 107346 | 21.154 | ng | 98 |
| 4) n-Nitrosodimethylamine | 3.287 | 42 | 61242 | 20.264 | ng | 98 |
| 6) Aniline | 6.504 | 93 | 125837 | 21.965 | ng | 98 |
| 8) 2-Chlorophenol | 6.634 | 128 | 106548 | 21.166 | ng | 98 |
| 9) Benzaldehyde | 6.399 | 77 | 81141 | 21.071 | ng | 100 |
| 10) Phenol | 6.493 | 94 | 141295 | 20.890 | ng | 95 |
| 11) bis(2-Chloroethyl)ether | 6.581 | 93 | 105905 | 20.347 | ng | 98 |
| 12) 1,3-Dichlorobenzene | 6.787 | 146 | 118768 | 21.077 | ng | 99 |
| 13) 1,4-Dichlorobenzene | 6.863 | 146 | 119642 | 21.039 | ng | 99 |
| 14) 1,2-Dichlorobenzene | 7.016 | 146 | 113116 | 21.284 | ng | 100 |
| 15) Benzyl Alcohol | 6.987 | 79 | 98544 | 21.284 | ng | 99 |
| 16) 2,2'-oxybis(1-Chloropr... | 7.122 | 45 | 191406 | 21.369 | ng | 94 |
| 17) 2-Methylphenol | 7.098 | 107 | 87392 | 21.024 | ng | 98 |
| 18) Hexachloroethane | 7.357 | 117 | 44140 | 20.620 | ng | 99 |
| 19) n-Nitroso-di-n-propyla... | 7.251 | 70 | 82912 | 21.369 | ng | 98 |
| 20) 3+4-Methylphenols | 7.257 | 107 | 115081 | 21.577 | ng | 94 |
| 22) Acetophenone | 7.251 | 105 | 152730 | 20.738 | ng | 100 |
| 24) Nitrobenzene | 7.428 | 77 | 130332 | 20.819 | ng | 98 |
| 25) Isophorone | 7.663 | 82 | 220971 | 21.034 | ng | 99 |
| 26) 2-Nitrophenol | 7.745 | 139 | 56578 | 21.006 | ng | 99 |
| 27) 2,4-Dimethylphenol | 7.781 | 122 | 66449 | 20.620 | ng | 98 |
| 28) bis(2-Chloroethoxy)met... | 7.875 | 93 | 135096 | 21.118 | ng | 100 |
| 29) 2,4-Dichlorophenol | 7.992 | 162 | 88156 | 21.289 | ng | 99 |
| 30) 1,2,4-Trichlorobenzene | 8.069 | 180 | 98908 | 20.697 | ng | 98 |
| 31) Naphthalene | 8.151 | 128 | 333821 | 21.084 | ng | 99 |
| 32) Benzoic acid | 7.887 | 122 | 47452 | 18.740 | ng | 97 |
| 33) 4-Chloroaniline | 8.198 | 127 | 111005 | 20.887 | ng | 98 |
| 34) Hexachlorobutadiene | 8.263 | 225 | 60058 | 20.749 | ng | 98 |
| 35) Caprolactam | 8.557 | 113 | 26359 | 21.333 | ng | 98 |
| 36) 4-Chloro-3-methylphenol | 8.681 | 107 | 103141 | 21.794 | ng | 99 |
| 37) 2-Methylnaphthalene | 8.840 | 142 | 213210 | 21.323 | ng | 99 |
| 38) 1-Methylnaphthalene | 8.940 | 142 | 208242 | 21.253 | ng | 99 |
| 40) 1,2,4,5-Tetrachloroben... | 9.004 | 216 | 96503 | 20.924 | ng | 98 |
| 41) Hexachlorocyclopentadiene | 8.987 | 237 | 16767 | 19.505 | ng | 99 |
| 43) 2,4,6-Trichlorophenol | 9.116 | 196 | 58575 | 20.830 | ng | 97 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138683.D
Acq On : 30 Jul 2024 14:25
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

Quant Time: Jul 30 17:43:45 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:38:59 2024
Response via : Initial Calibration

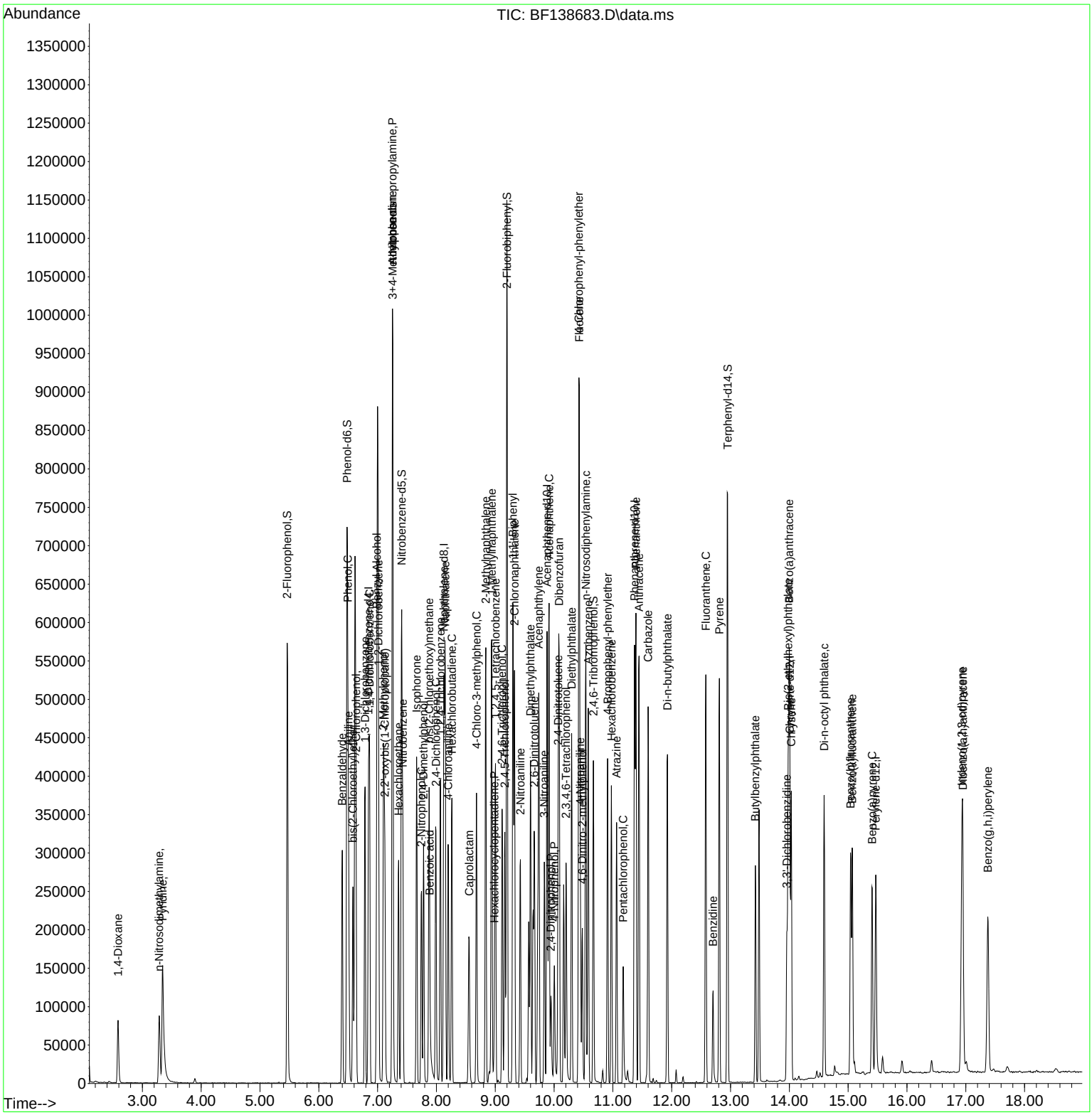
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 9.163 | 196 | 64272 | 20.907 | ng | 97 |
| 46) 1,1'-Biphenyl | 9.298 | 154 | 270560 | 20.807 | ng | 100 |
| 47) 2-Chloronaphthalene | 9.328 | 162 | 201367 | 20.822 | ng | 98 |
| 48) 2-Nitroaniline | 9.428 | 65 | 68663 | 20.943 | ng | 97 |
| 49) Acenaphthylene | 9.739 | 152 | 289321 | 21.093 | ng | 99 |
| 50) Dimethylphthalate | 9.598 | 163 | 226938 | 21.376 | ng | 99 |
| 51) 2,6-Dinitrotoluene | 9.663 | 165 | 50501 | 21.078 | ng | 94 |
| 52) Acenaphthene | 9.916 | 154 | 194057 | 21.047 | ng | 100 |
| 53) 3-Nitroaniline | 9.834 | 138 | 52618 | 21.244 | ng | 95 |
| 54) 2,4-Dinitrophenol | 9.945 | 184 | 23573 | 21.374 | ng | 92 |
| 55) Dibenzofuran | 10.086 | 168 | 276572 | 21.249 | ng | 99 |
| 56) 4-Nitrophenol | 10.004 | 139 | 30898 | 20.745 | ng | 98 |
| 57) 2,4-Dinitrotoluene | 10.069 | 165 | 66734 | 21.832 | ng | 97 |
| 58) Fluorene | 10.428 | 166 | 224349 | 21.646 | ng | 99 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.204 | 232 | 49368 | 21.005 | ng | 97 |
| 60) Diethylphthalate | 10.298 | 149 | 219374 | 21.793 | ng | 100 |
| 61) 4-Chlorophenyl-phenyle... | 10.422 | 204 | 109862 | 21.552 | ng | 99 |
| 62) 4-Nitroaniline | 10.445 | 138 | 51964 | 22.077 | ng | 98 |
| 63) Azobenzene | 10.581 | 77 | 240769 | 21.566 | ng | 100 |
| 65) 4,6-Dinitro-2-methylph... | 10.481 | 198 | 34887 | 20.206 | ng | 99 |
| 66) n-Nitrosodiphenylamine | 10.539 | 169 | 182551 | 20.636 | ng | 99 |
| 67) 4-Bromophenyl-phenylether | 10.910 | 248 | 64049 | 20.903 | ng | 99 |
| 68) Hexachlorobenzene | 10.975 | 284 | 66331 | 20.966 | ng | 97 |
| 69) Atrazine | 11.063 | 200 | 49863 | 21.847 | ng | 98 |
| 70) Pentachlorophenol | 11.175 | 266 | 27470 | 19.263 | ng | 98 |
| 71) Phenanthrene | 11.392 | 178 | 307735 | 21.117 | ng | 100 |
| 72) Anthracene | 11.445 | 178 | 305147 | 21.256 | ng | 99 |
| 73) Carbazole | 11.598 | 167 | 265973 | 21.474 | ng | 100 |
| 74) Di-n-butylphthalate | 11.928 | 149 | 294214 | 21.131 | ng | 100 |
| 75) Fluoranthene | 12.580 | 202 | 294039 | 21.613 | ng | 100 |
| 77) Benzidine | 12.704 | 184 | 66561 | 20.254 | ng | 98 |
| 78) Pyrene | 12.810 | 202 | 294030 | 22.728 | ng | 100 |
| 80) Butylbenzylphthalate | 13.422 | 149 | 83162 | 20.074 | ng | 98 |
| 81) Benzo(a)anthracene | 13.998 | 228 | 193671 | 20.469 | ng | 100 |
| 82) 3,3'-Dichlorobenzidine | 13.957 | 252 | 51844 | 21.412 | ng | 99 |
| 83) Chrysene | 14.033 | 228 | 173160 | 20.285 | ng | 98 |
| 84) Bis(2-ethylhexyl)phtha... | 13.980 | 149 | 118293 | 19.500 | ng | 99 |
| 85) Di-n-octyl phthalate | 14.592 | 149 | 221760 | 19.758 | ng | 100 |
| 87) Indeno(1,2,3-cd)pyrene | 16.933 | 276 | 207968 | 21.168 | ng | 99 |
| 88) Benzo(b)fluoranthene | 15.039 | 252 | 176387 | 20.755 | ng | 100 |
| 89) Benzo(k)fluoranthene | 15.069 | 252 | 150547 | 20.460 | ng | 99 |
| 90) Benzo(a)pyrene | 15.410 | 252 | 146767 | 20.531 | ng | 99 |
| 91) Dibenzo(a,h)anthracene | 16.951 | 278 | 171745 | 21.296 | ng | 99 |
| 92) Benzo(g,h,i)perylene | 17.374 | 276 | 176662 | 21.110 | ng | 98 |

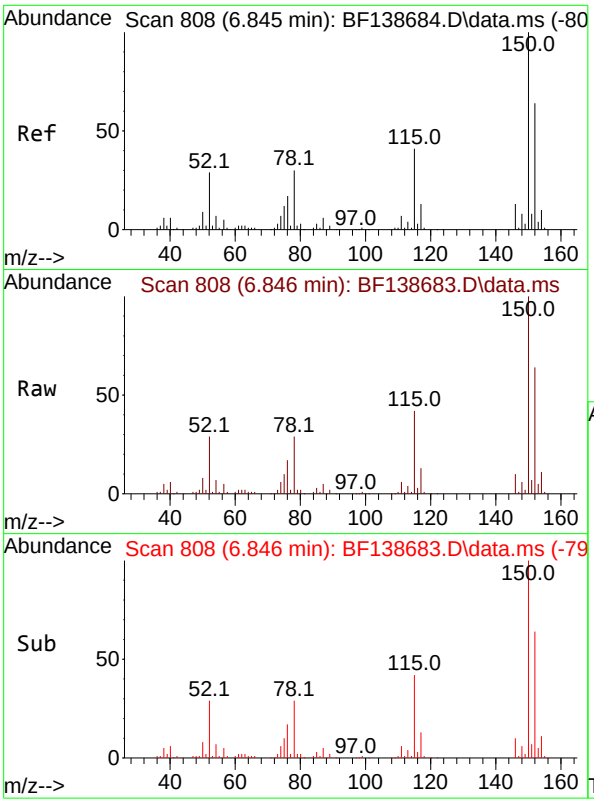
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138683.D
Acq On : 30 Jul 2024 14:25
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

Quant Time: Jul 30 17:43:45 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:38:59 2024
Response via : Initial Calibration



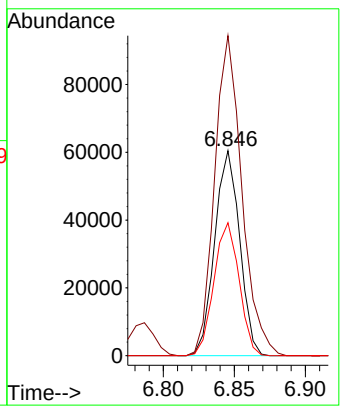


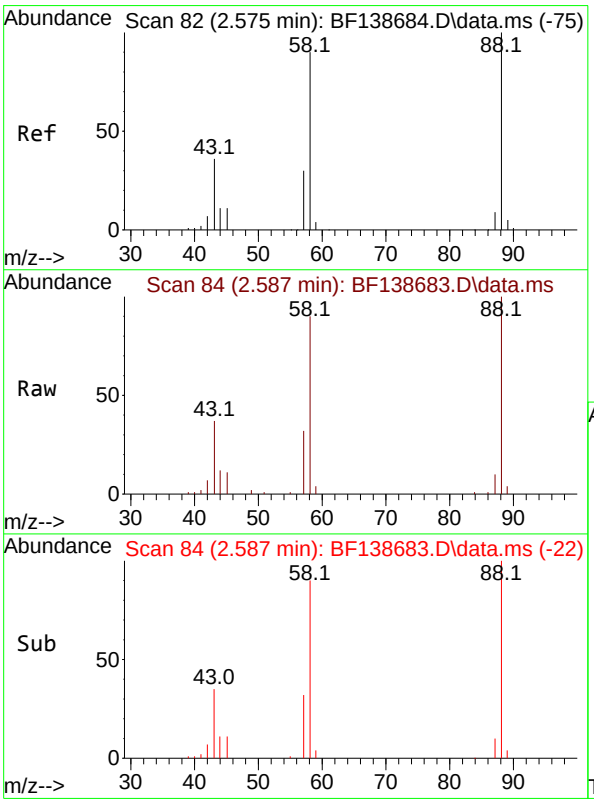

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.846 min Scan# 8
Delta R.T. 0.001 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

Tgt Ion:152 Resp: 73859

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 156.1 | 126.0 | 189.0 |
| 115 | 64.9 | 51.7 | 77.5 |

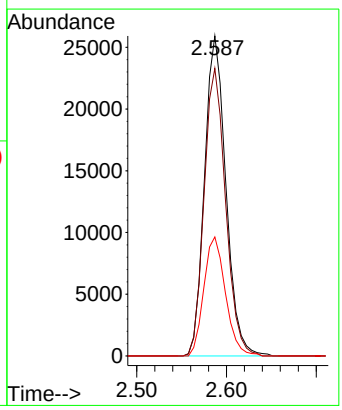


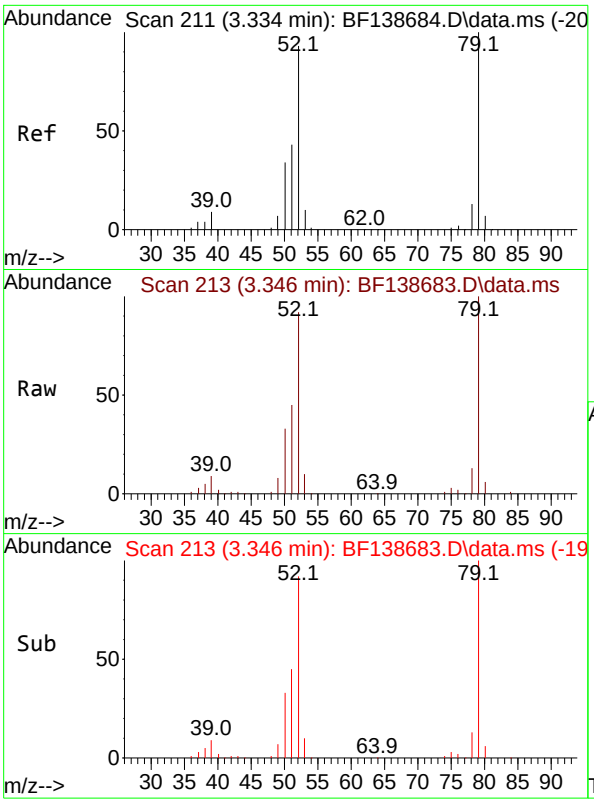




#2
1,4-Dioxane
Concen: 20.480 ng
RT: 2.587 min Scan# 84
Delta R.T. 0.012 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion: 88 Resp: 42900

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 90.3 | 71.6 | 107.4 |
| 43 | 37.7 | 28.7 | 43.1 |



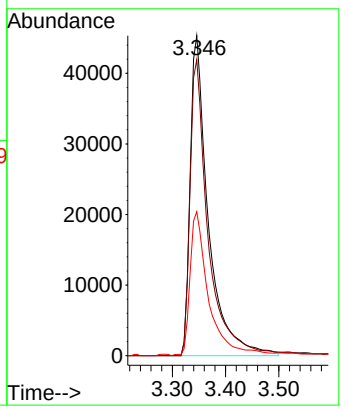


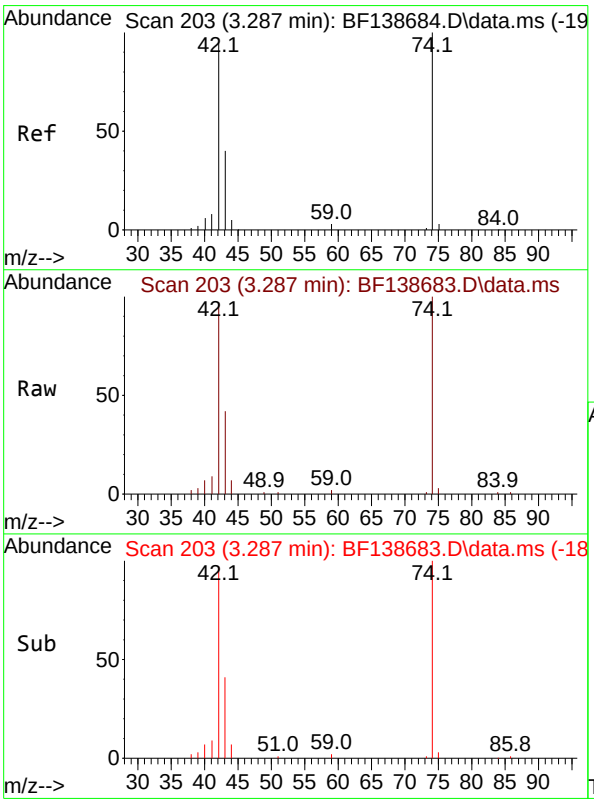

#3
Pyridine
Concen: 21.154 ng
RT: 3.346 min Scan# 21
Delta R.T. 0.012 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

Tgt Ion: 79 Resp: 107346

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 92.5 | 74.7 | 112.1 |
| 51 | 45.0 | 34.6 | 51.8 |

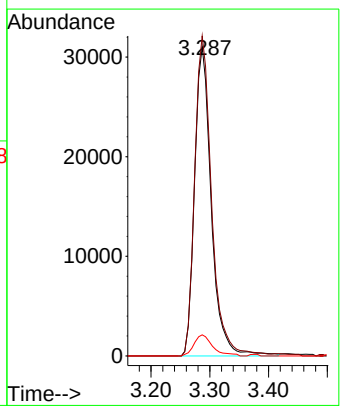


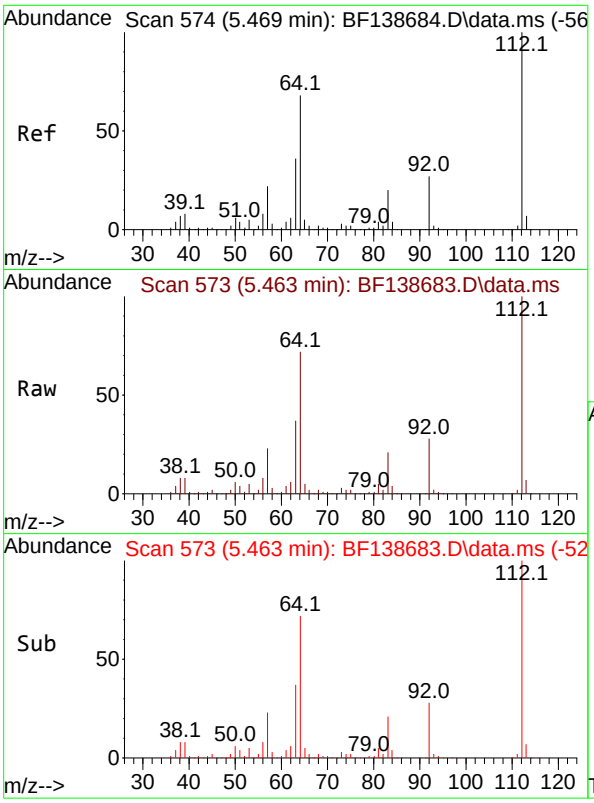




#4
n-Nitrosodimethylamine
Concen: 20.264 ng
RT: 3.287 min Scan# 203
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion: 42 Resp: 61242

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 103.5 | 84.2 | 126.4 |
| 44 | 6.8 | 4.9 | 7.3 |



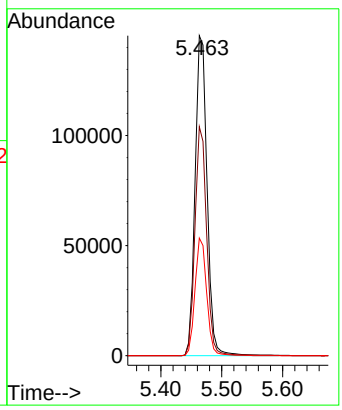


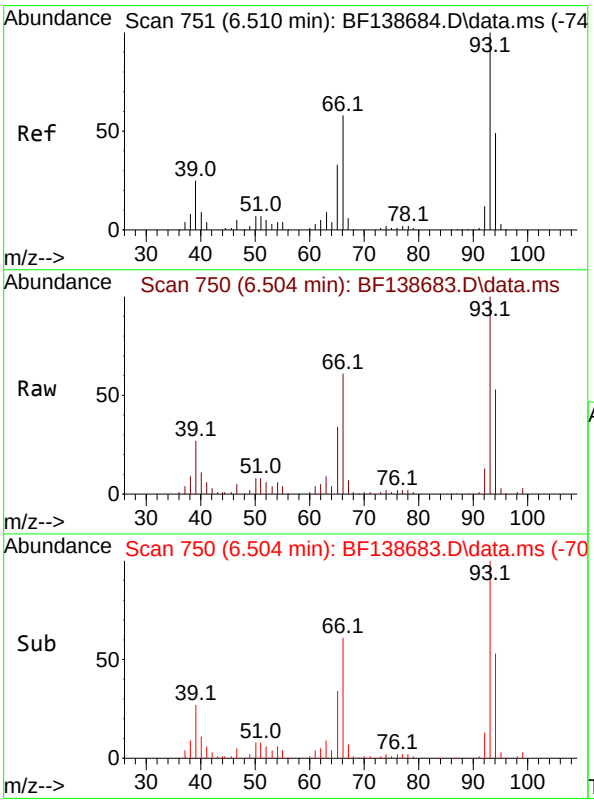

#5
2-Fluorophenol
Concen: 41.415 ng
RT: 5.463 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

Tgt Ion:112 Resp: 198160

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 71.6 | 54.2 | 81.4 |
| 63 | 36.8 | 28.7 | 43.1 |

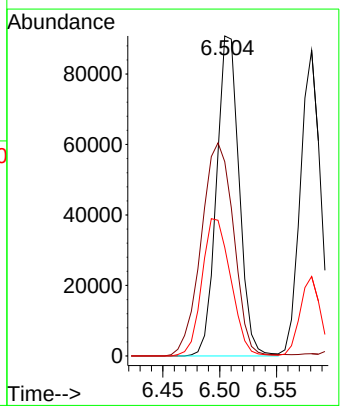


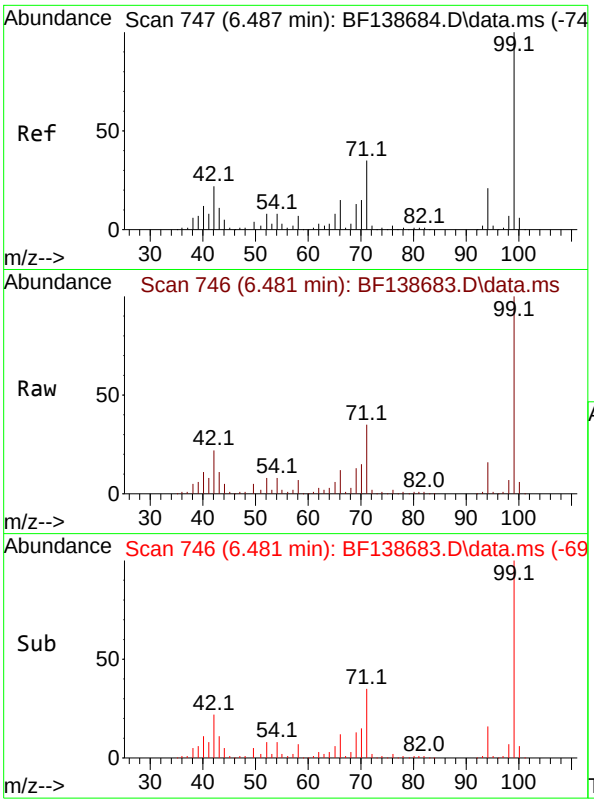




#6
Aniline
Concen: 21.965 ng
RT: 6.504 min Scan# 750
Delta R.T. -0.006 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion: 93 Resp: 125837

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 66 | 60.7 | 46.9 | 70.3 |
| 65 | 33.9 | 26.5 | 39.7 |



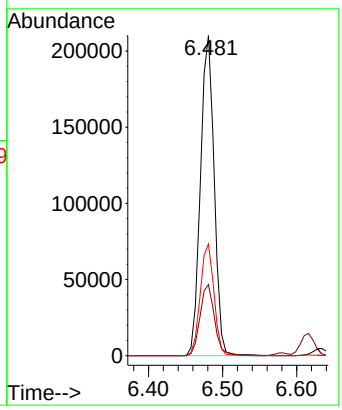


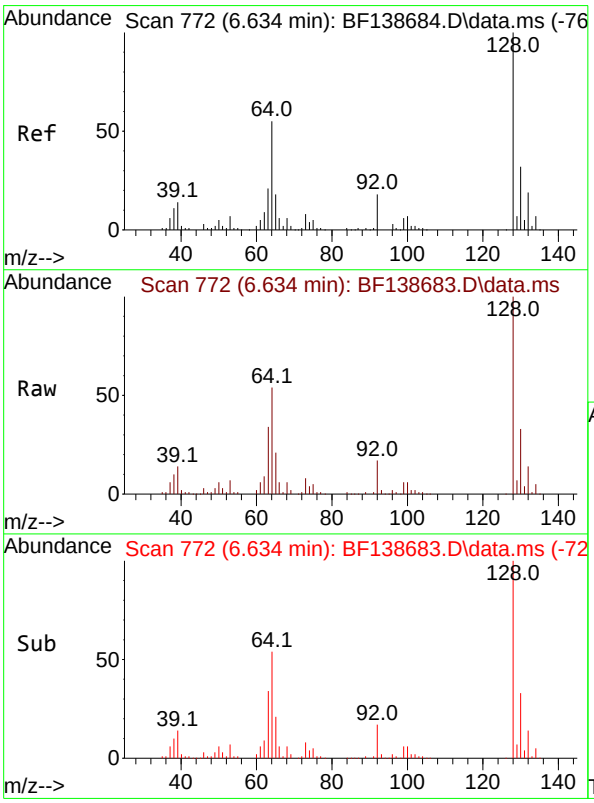

#7
Phenol-d6
Concen: 42.029 ng
RT: 6.481 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

Tgt Ion: 99 Resp: 269991

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 22.2 | 17.4 | 26.0 |
| 71 | 34.9 | 28.1 | 42.1 |

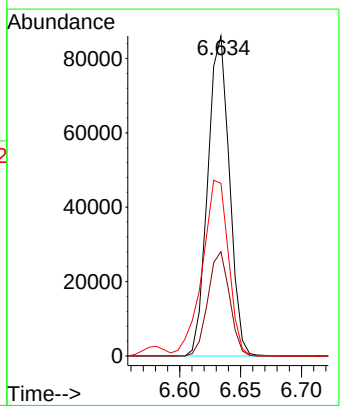


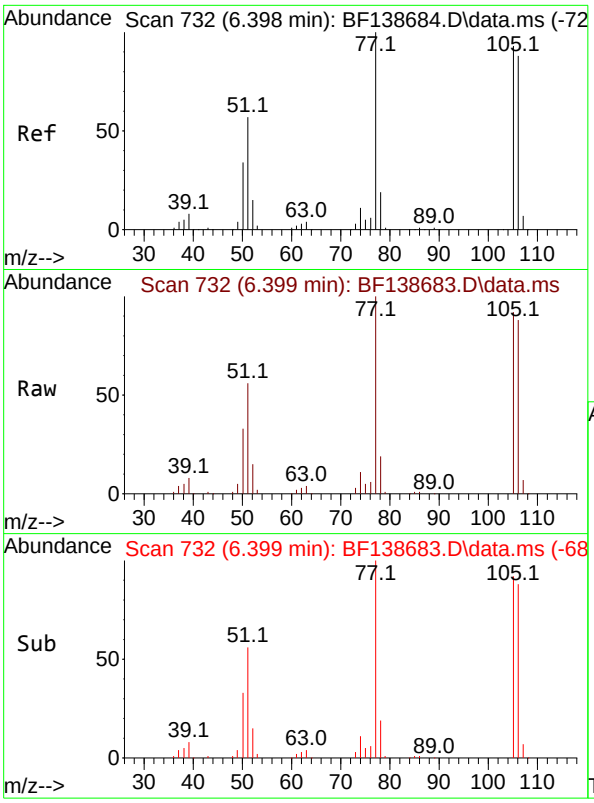




#8
2-Chlorophenol
Concen: 21.166 ng
RT: 6.634 min Scan# 772
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:128 Resp: 106548

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 130 | 32.6 | 12.0 | 52.0 |
| 64 | 54.0 | 36.3 | 76.3 |



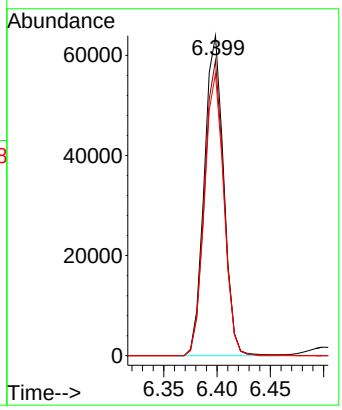


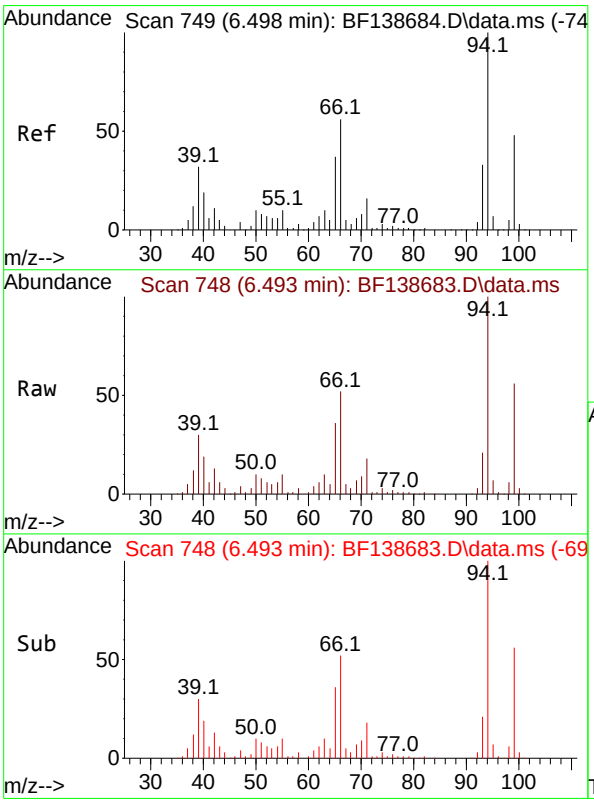

#9
Benzaldehyde
Concen: 21.071 ng
RT: 6.399 min Scan# 7
Delta R.T. 0.001 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

Tgt Ion: 77 Resp: 81141

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 105 | 92.3 | 72.9 | 112.9 |
| 106 | 88.2 | 68.4 | 108.4 |

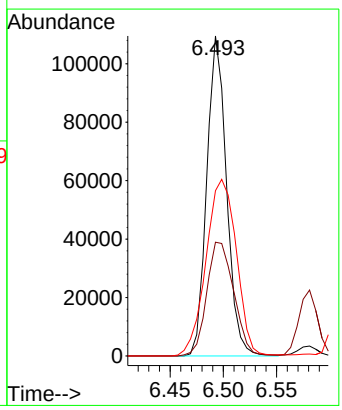


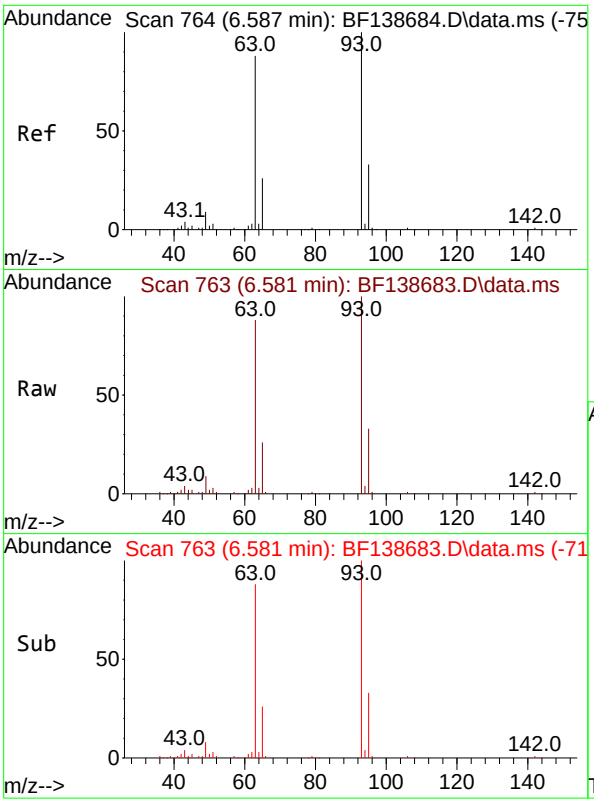




#10
Phenol
Concen: 20.890 ng
RT: 6.493 min Scan# 748
Delta R.T. -0.006 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion: 94 Resp: 141295

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 35.6 | 16.9 | 56.9 |
| 66 | 51.7 | 36.5 | 76.5 |



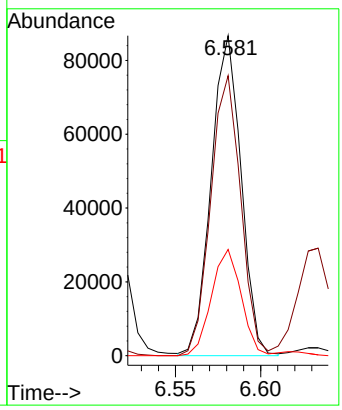


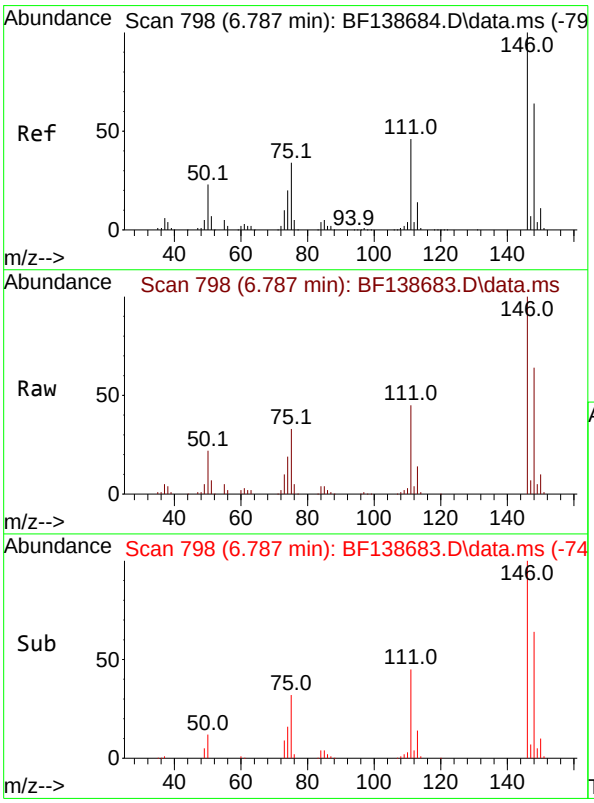

#11
bis(2-Chloroethyl)ether
Concen: 20.347 ng
RT: 6.581 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

Tgt Ion: 93 Resp: 105905

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 87.5 | 65.3 | 105.3 |
| 95 | 33.2 | 12.4 | 52.4 |

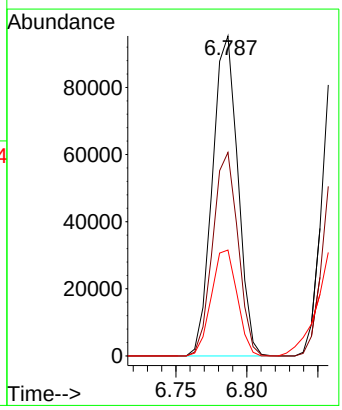


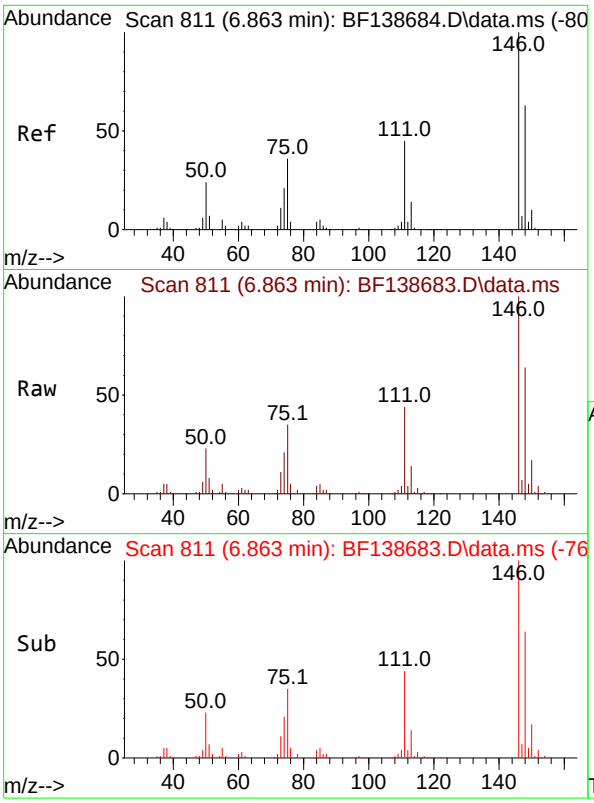




#12
1,3-Dichlorobenzene
Concen: 21.077 ng
RT: 6.787 min Scan# 798
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:146 Resp: 118768

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 63.6 | 51.2 | 76.8 |
| 75 | 33.1 | 27.4 | 41.2 |



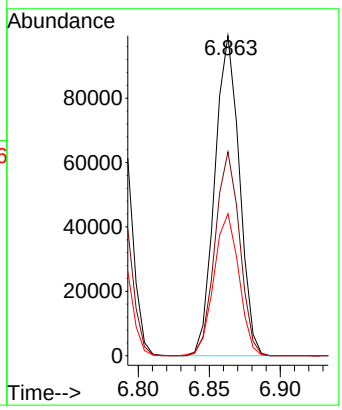


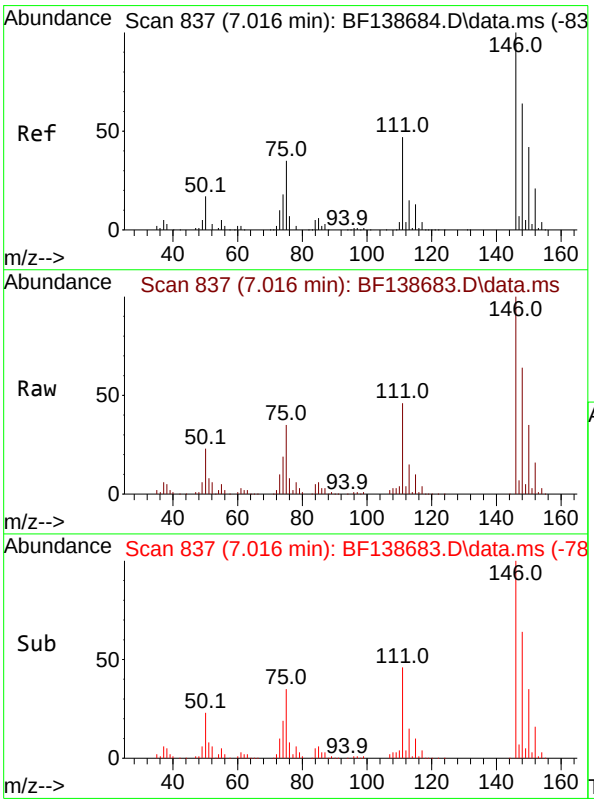

#13
1,4-Dichlorobenzene
Concen: 21.039 ng
RT: 6.863 min Scan# 81
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

Tgt Ion:146 Resp: 119642

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 63.7 | 50.2 | 75.2 |
| 111 | 44.4 | 35.9 | 53.9 |

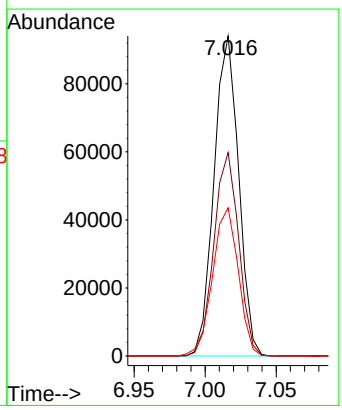


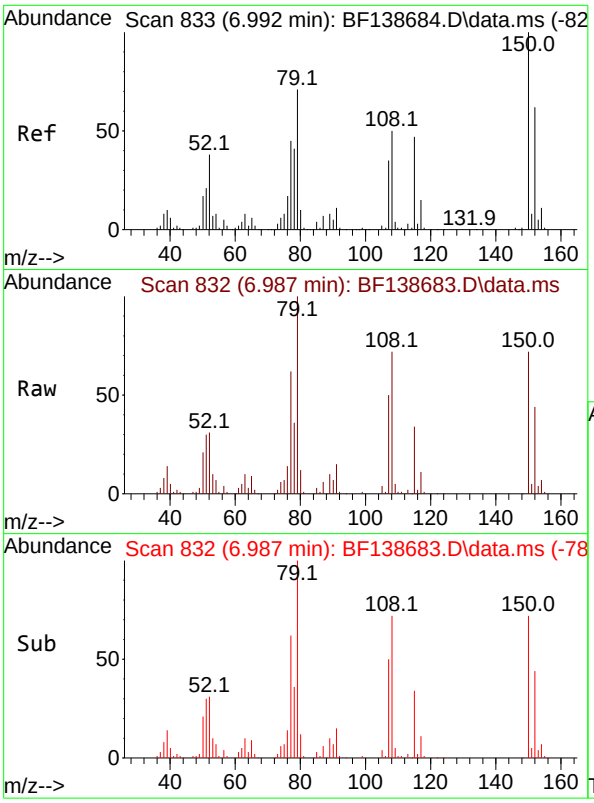




#14
1,2-Dichlorobenzene
Concen: 21.284 ng
RT: 7.016 min Scan# 837
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:146 Resp: 113116

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 63.5 | 50.8 | 76.2 |
| 111 | 46.3 | 37.4 | 56.2 |



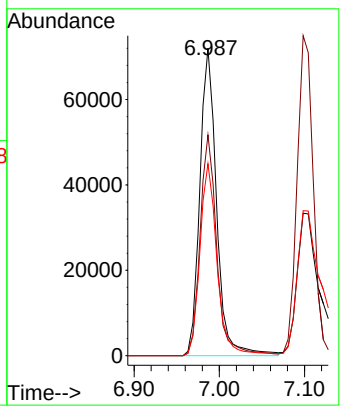


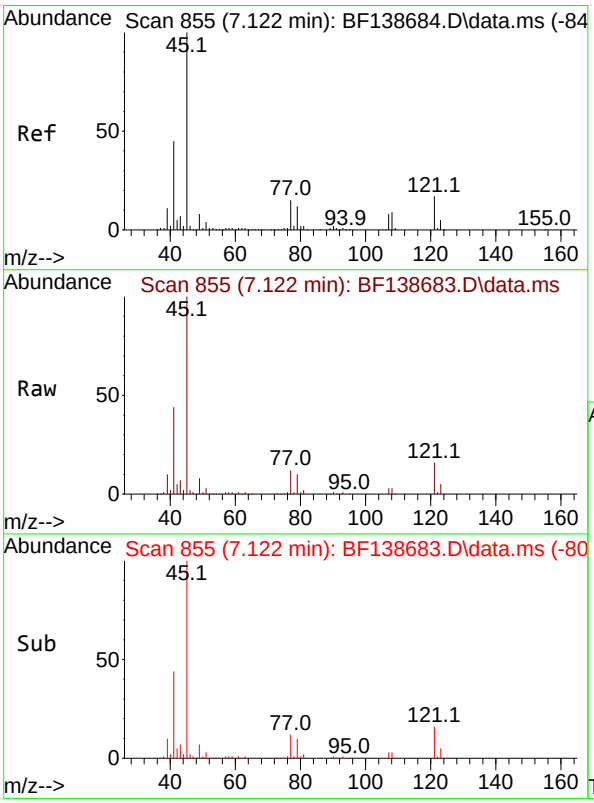

#15
Benzyl Alcohol
Concen: 21.284 ng
RT: 6.987 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

Tgt Ion: 79 Resp: 98544

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 108 | 71.9 | 56.6 | 85.0 |
| 77 | 62.5 | 50.3 | 75.5 |

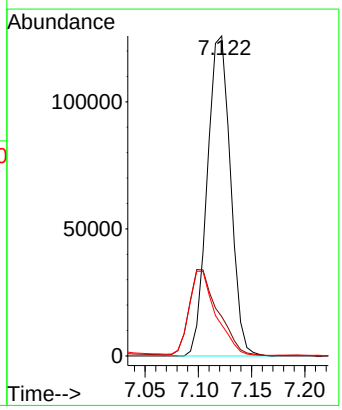


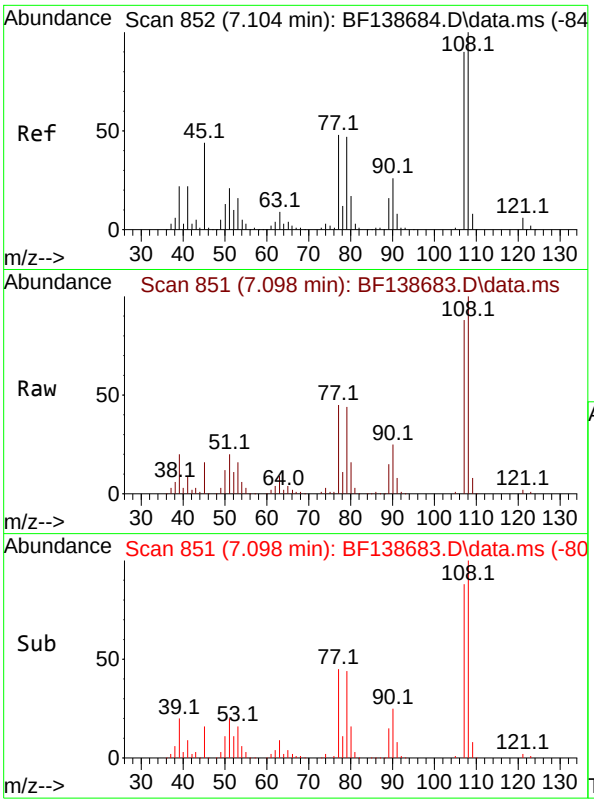




#16
2,2'-oxybis(1-Chloropropane)
Concen: 21.369 ng
RT: 7.122 min Scan# 855
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion: 45 Resp: 191406

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 77 | 12.3 | 0.0 | 34.9 |
| 79 | 9.7 | 0.0 | 32.2 |



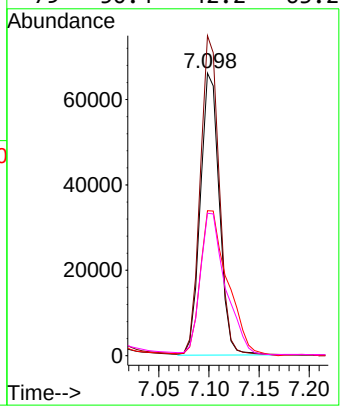


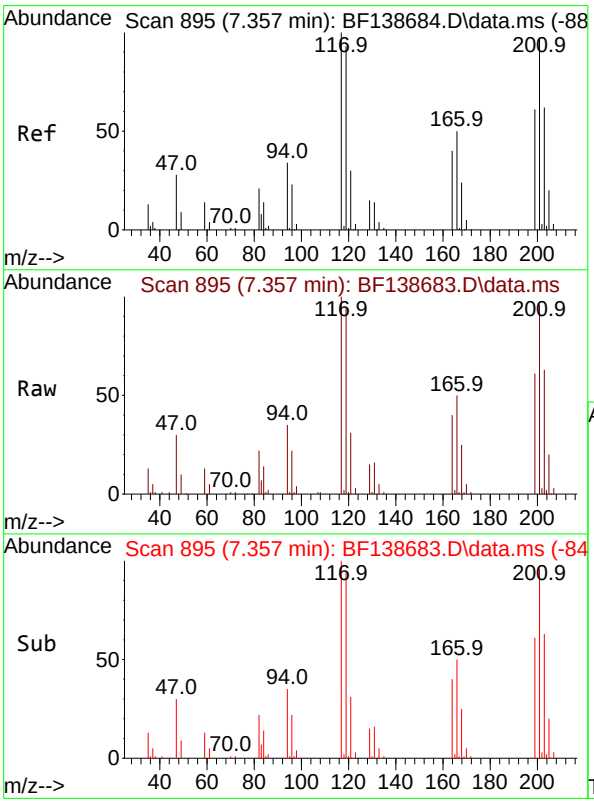

#17
2-Methylphenol
Concen: 21.024 ng
RT: 7.098 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

Tgt Ion:107 Resp: 87392

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 113.3 | 89.2 | 133.8 |
| 77 | 51.3 | 43.0 | 64.4 |
| 79 | 50.4 | 42.2 | 63.2 |

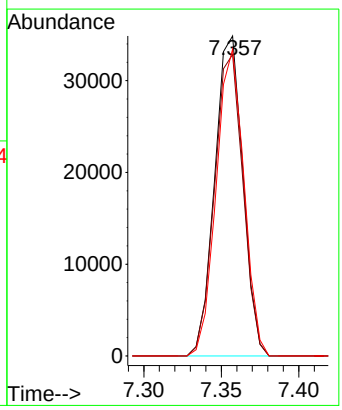


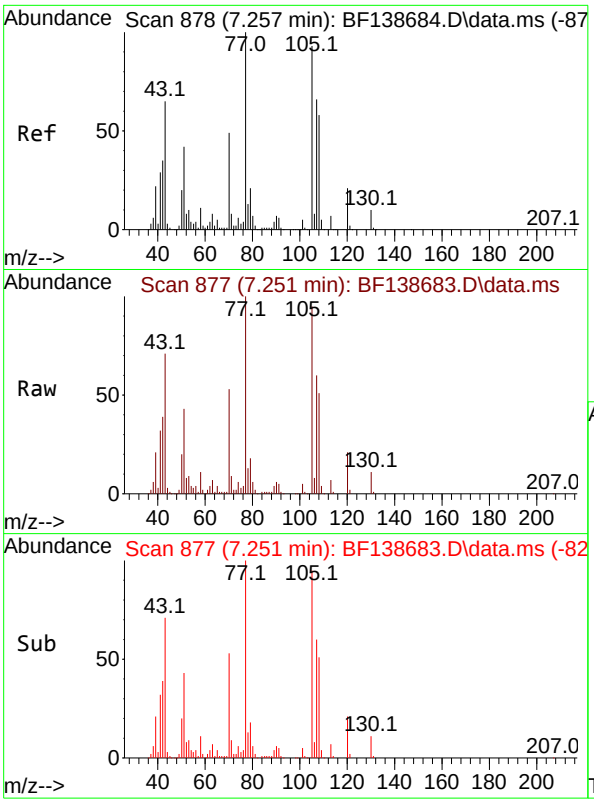




#18
Hexachloroethane
Concen: 20.620 ng
RT: 7.357 min Scan# 895
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:117 Resp: 44140

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 94.2 | 74.6 | 111.8 |
| 201 | 95.8 | 77.2 | 115.8 |



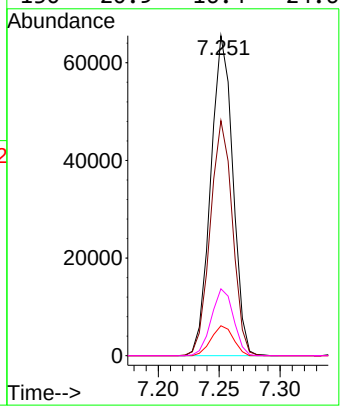


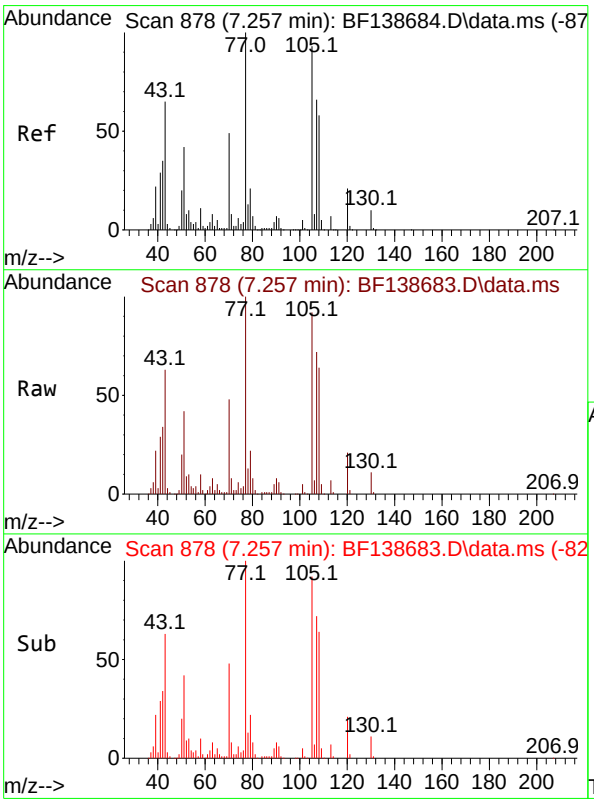

#19
n-Nitroso-di-n-propylamine
Concen: 21.369 ng
RT: 7.251 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

Tgt Ion: 70 Resp: 82912

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 42 | 73.4 | 57.4 | 86.0 |
| 101 | 9.4 | 7.5 | 11.3 |
| 130 | 20.9 | 16.4 | 24.6 |

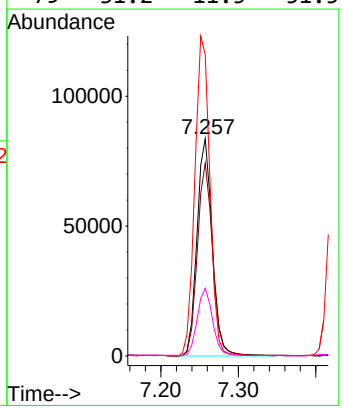


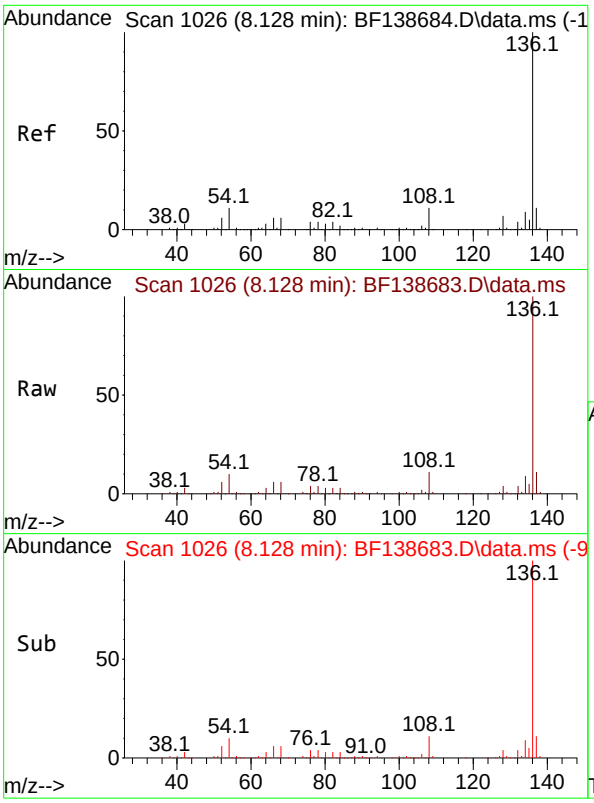




#20
3+4-Methylphenols
Concen: 21.577 ng
RT: 7.257 min Scan# 878
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:107 Resp: 115081

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 88.8 | 68.2 | 108.2 |
| 77 | 138.7 | 132.1 | 172.1 |
| 79 | 31.2 | 11.5 | 51.5 |



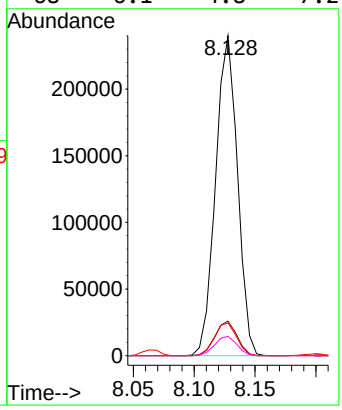


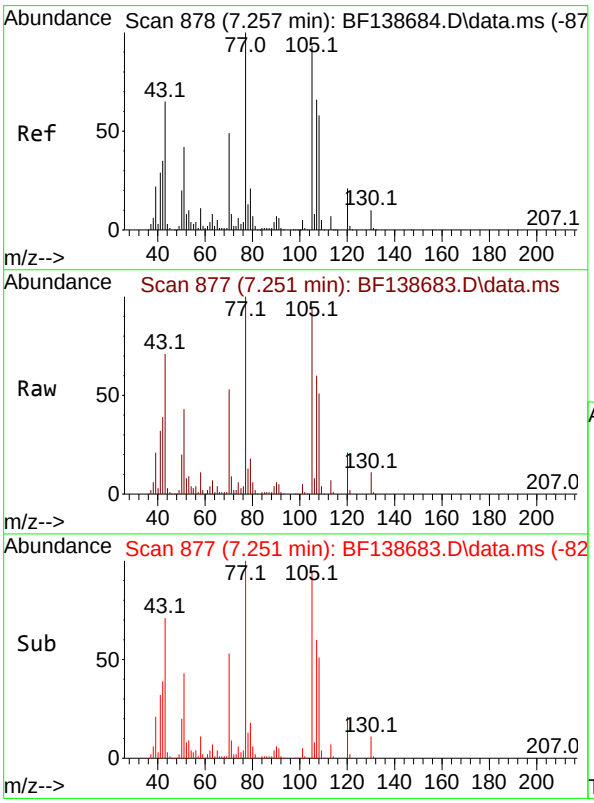

#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.128 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

Tgt Ion:136 Resp: 300790

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.8 | 8.9 | 13.3 |
| 54 | 10.3 | 8.6 | 12.8 |
| 68 | 6.1 | 4.8 | 7.2 |

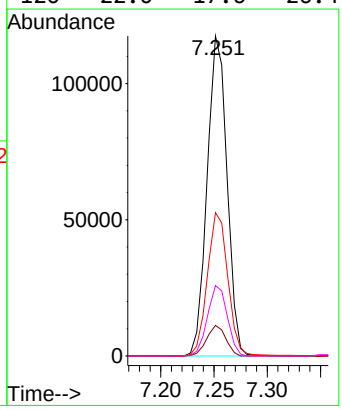


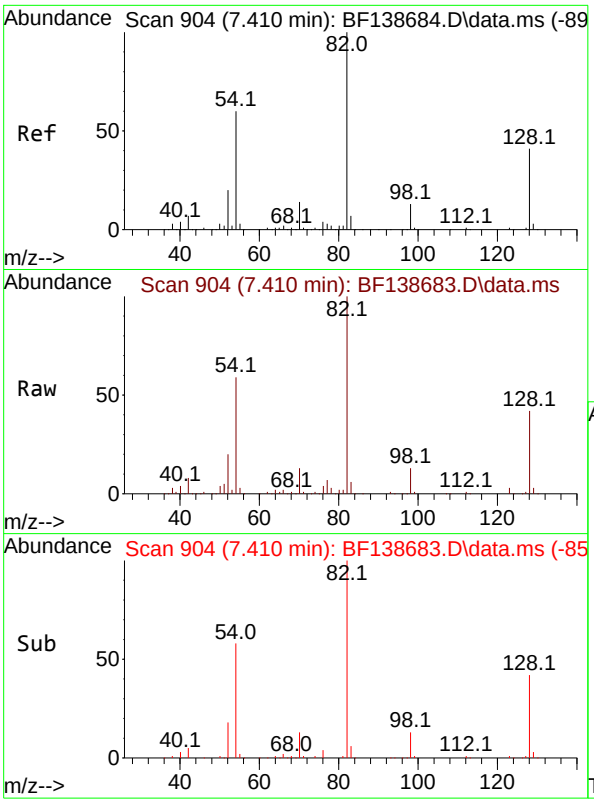




#22
Acetophenone
Concen: 20.738 ng
RT: 7.251 min Scan# 877
Delta R.T. -0.006 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:105 Resp: 152730

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 71 | 9.6 | 7.2 | 10.8 |
| 51 | 44.8 | 35.9 | 53.9 |
| 120 | 22.0 | 17.6 | 26.4 |



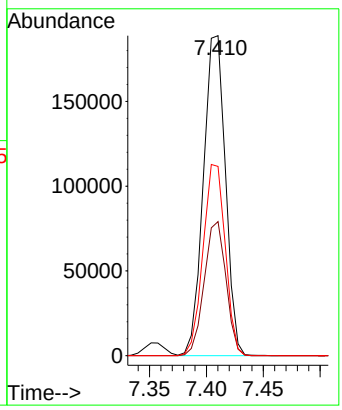


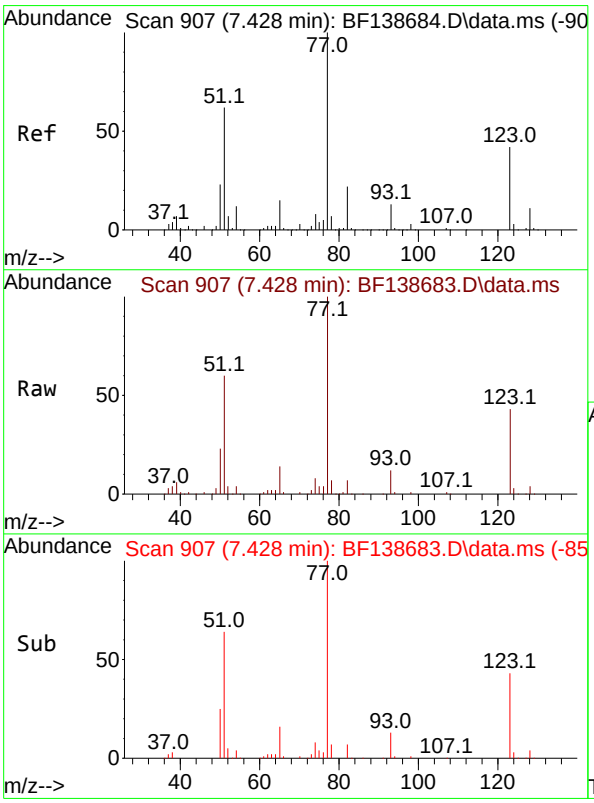

#23
Nitrobenzene-d5
Concen: 41.480 ng
RT: 7.410 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

Tgt Ion: 82 Resp: 255192

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 41.9 | 32.8 | 49.2 |
| 54 | 59.2 | 48.3 | 72.5 |

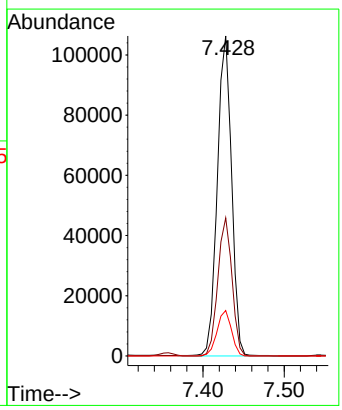


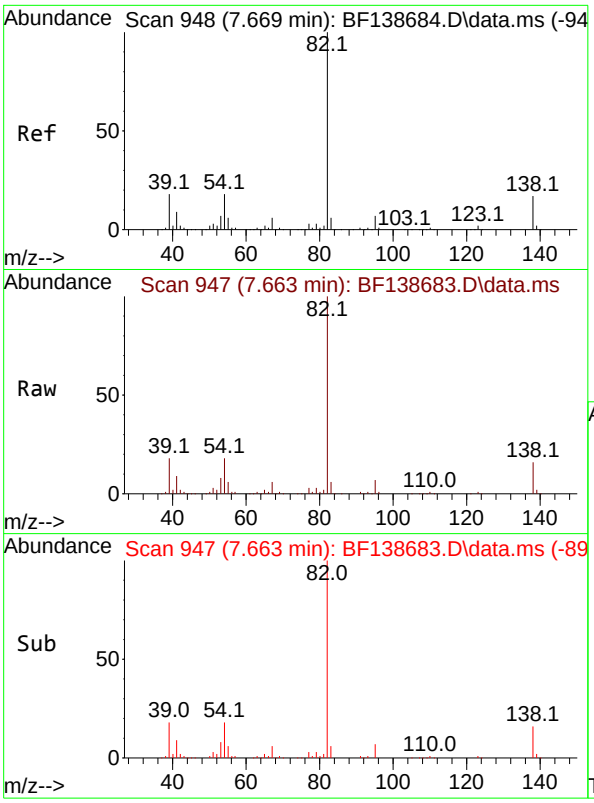




#24
Nitrobenzene
Concen: 20.819 ng
RT: 7.428 min Scan# 907
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion: 77 Resp: 130332

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 123 | 43.2 | 33.3 | 49.9 |
| 65 | 14.2 | 11.9 | 17.9 |



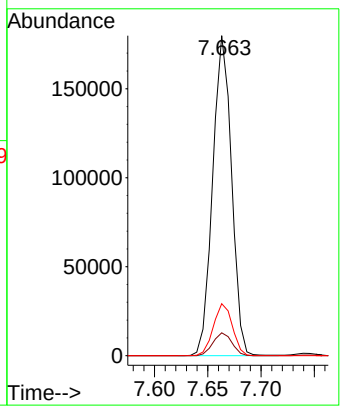


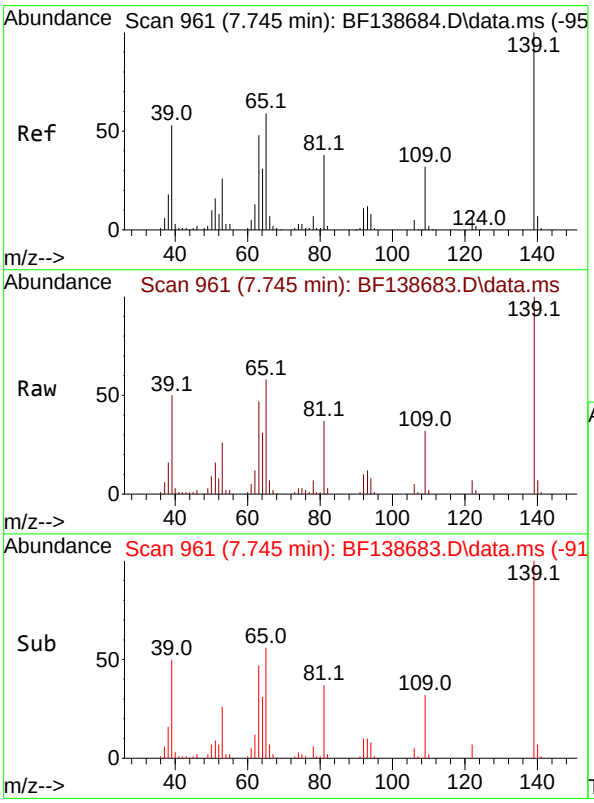

#25
Isophorone
Concen: 21.034 ng
RT: 7.663 min Scan# 94
Delta R.T. -0.006 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

Tgt Ion: 82 Resp: 220971

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 95 | 7.2 | 5.7 | 8.5 |
| 138 | 16.3 | 13.7 | 20.5 |

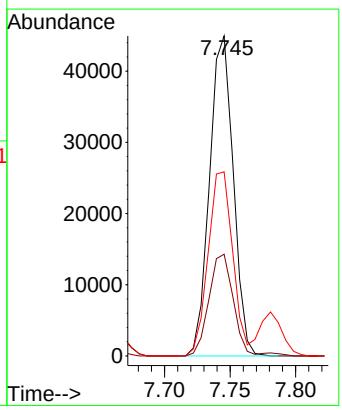


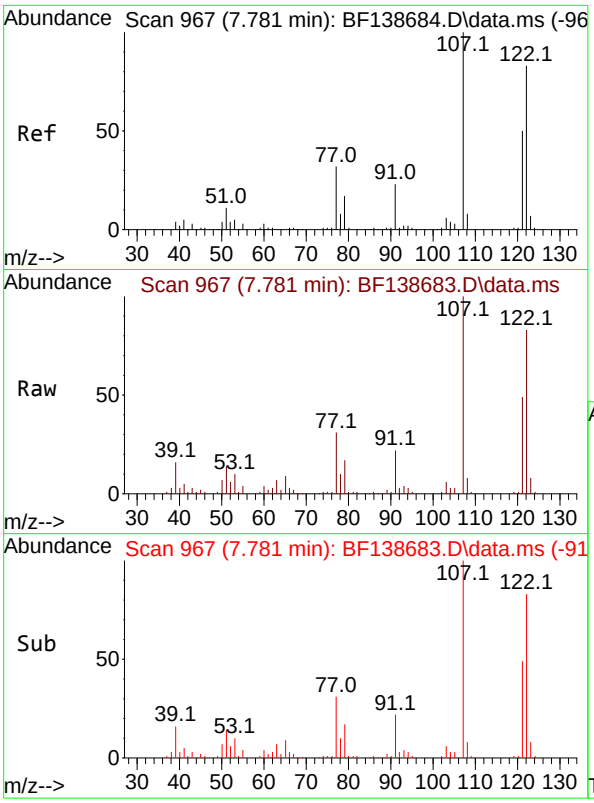




#26
2-Nitrophenol
Concen: 21.006 ng
RT: 7.745 min Scan# 961
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:139 Resp: 56578

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 31.8 | 25.9 | 38.9 |
| 65 | 57.6 | 47.0 | 70.6 |



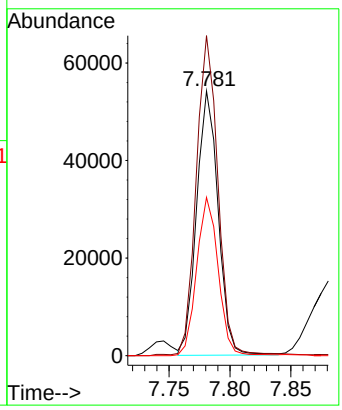


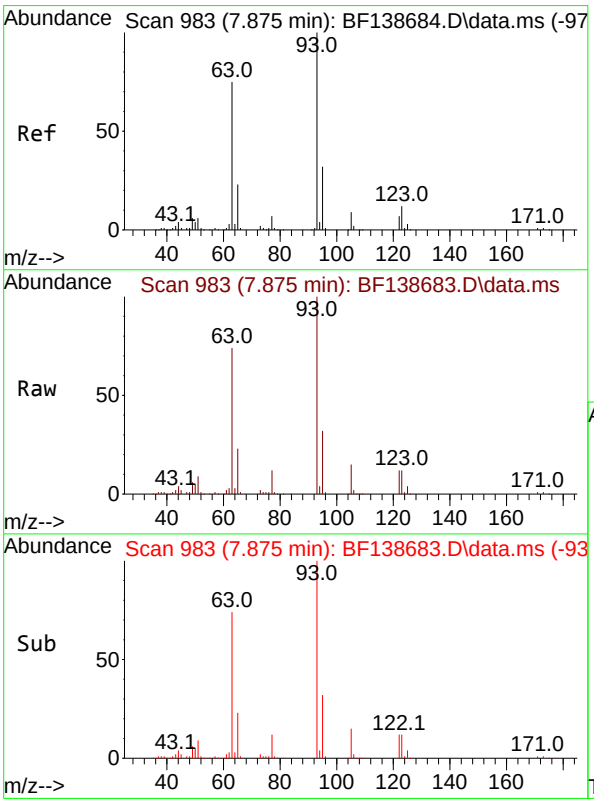

#27
2,4-Dimethylphenol
Concen: 20.620 ng
RT: 7.781 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

Tgt Ion:122 Resp: 66449

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 107 | 120.9 | 95.0 | 142.6 |
| 121 | 59.8 | 47.3 | 70.9 |

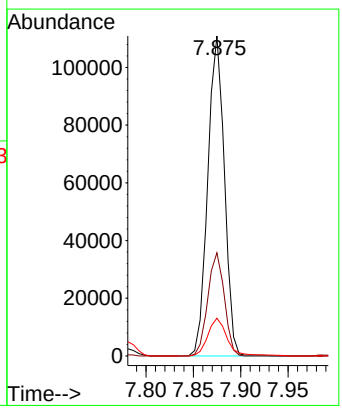


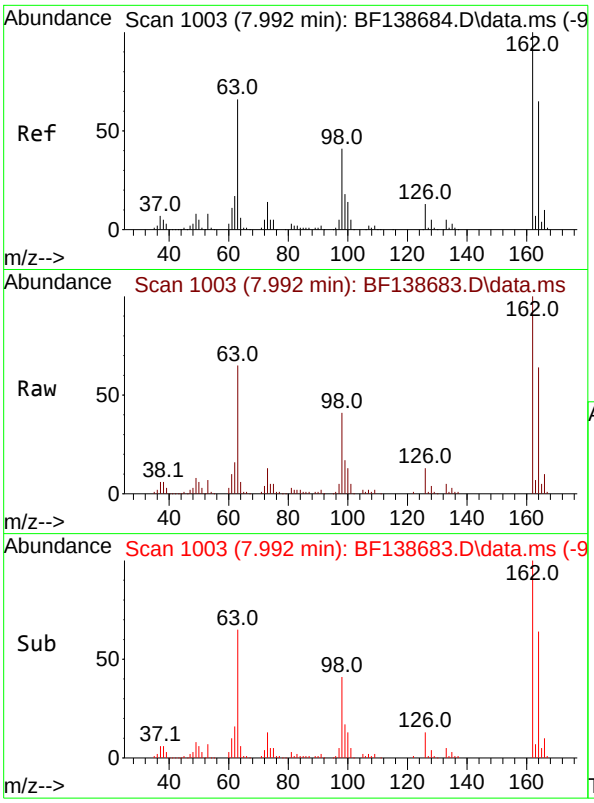




#28
bis(2-Chloroethoxy)methane
Concen: 21.118 ng
RT: 7.875 min Scan# 983
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion: 93 Resp: 135096

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 32.3 | 25.8 | 38.8 |
| 123 | 11.8 | 9.4 | 14.0 |



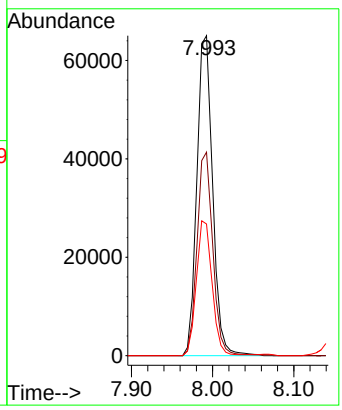


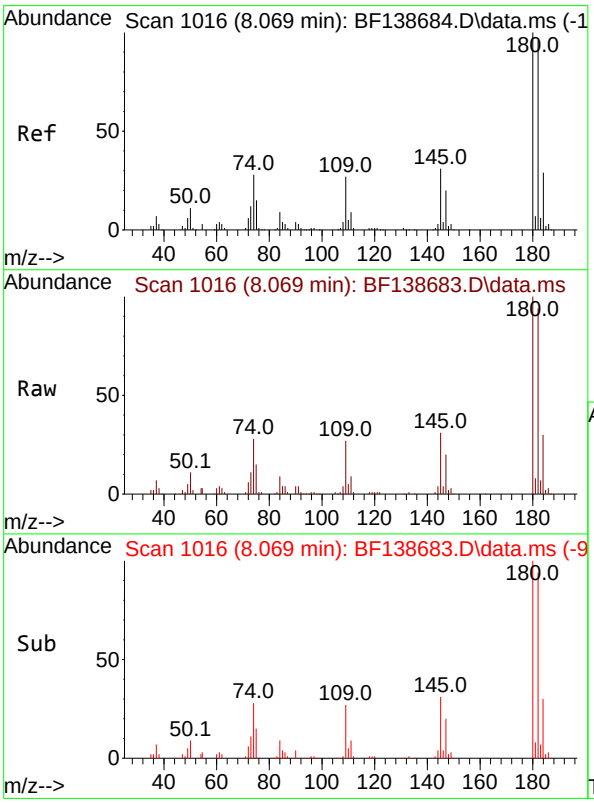

#29
2,4-Dichlorophenol
Concen: 21.289 ng
RT: 7.992 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

Tgt Ion:162 Resp: 88156

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 164 | 63.6 | 44.7 | 84.7 |
| 98 | 41.1 | 20.8 | 60.8 |

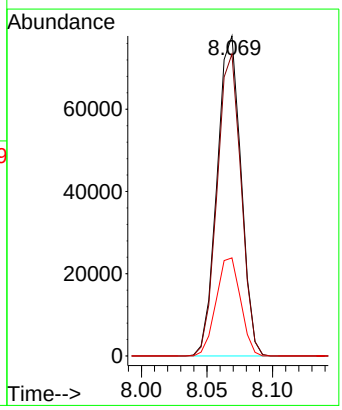


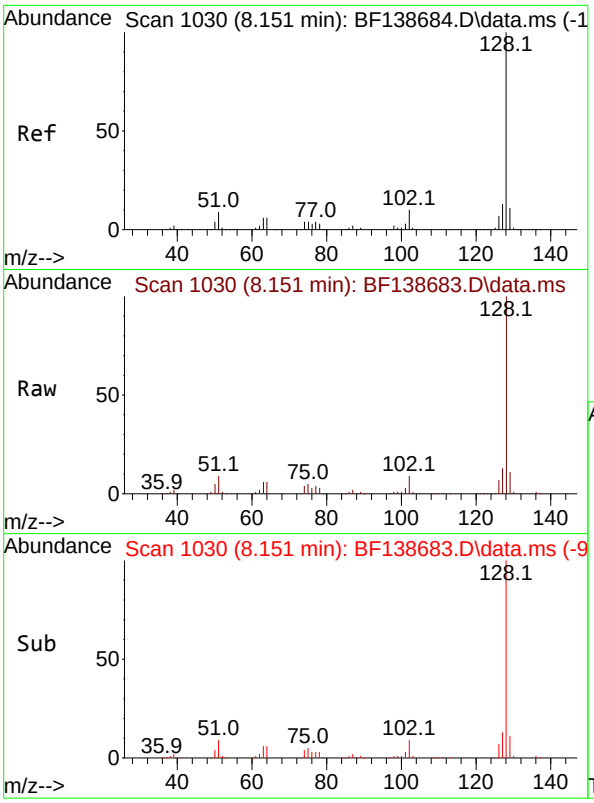




#30
1,2,4-Trichlorobenzene
Concen: 20.697 ng
RT: 8.069 min Scan# 1016
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:180 Resp: 98908

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.3 | 76.9 | 115.3 |
| 145 | 30.7 | 25.0 | 37.4 |



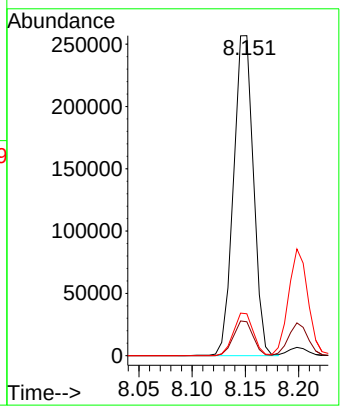


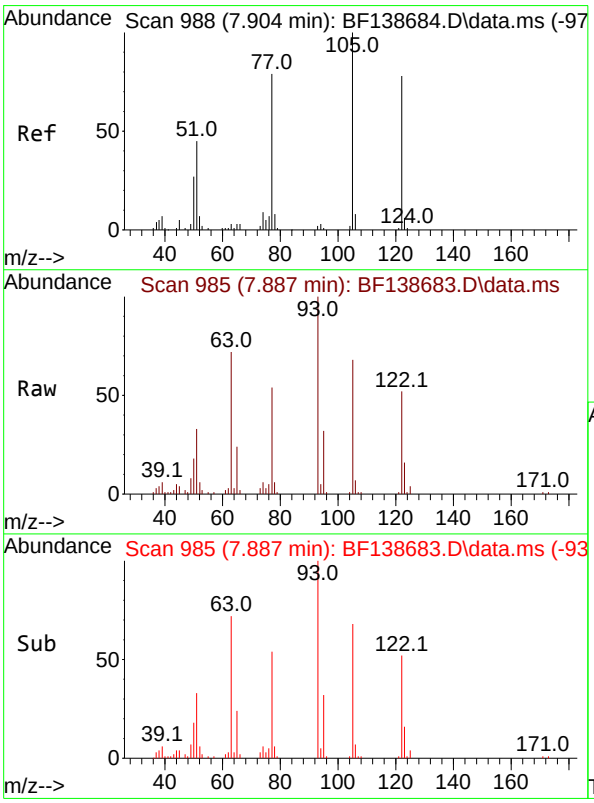

#31
Naphthalene
Concen: 21.084 ng
RT: 8.151 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

Tgt Ion:128 Resp: 333821

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 10.6 | 8.7 | 13.1 |
| 127 | 13.1 | 10.6 | 16.0 |

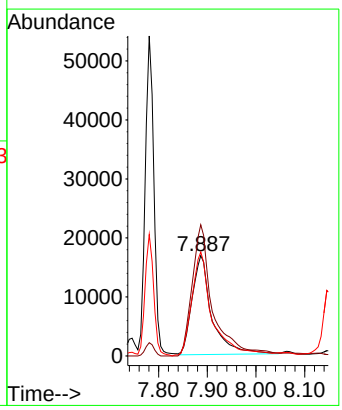


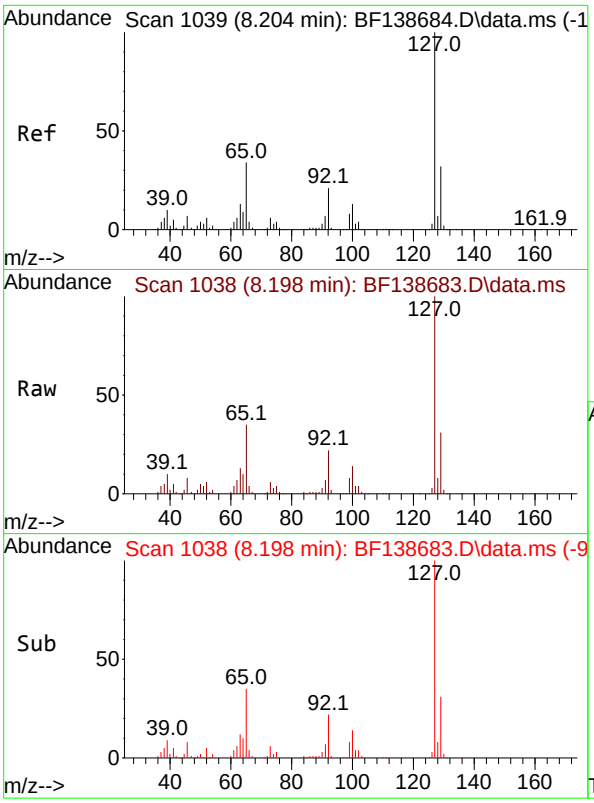




#32
Benzoic acid
Concen: 18.740 ng
RT: 7.887 min Scan# 985
Delta R.T. -0.017 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:122 Resp: 47452

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 130.8 | 106.7 | 146.7 |
| 77 | 103.7 | 81.1 | 121.1 |



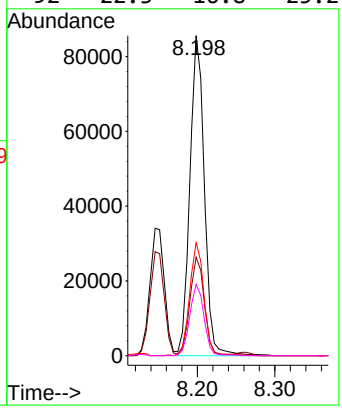


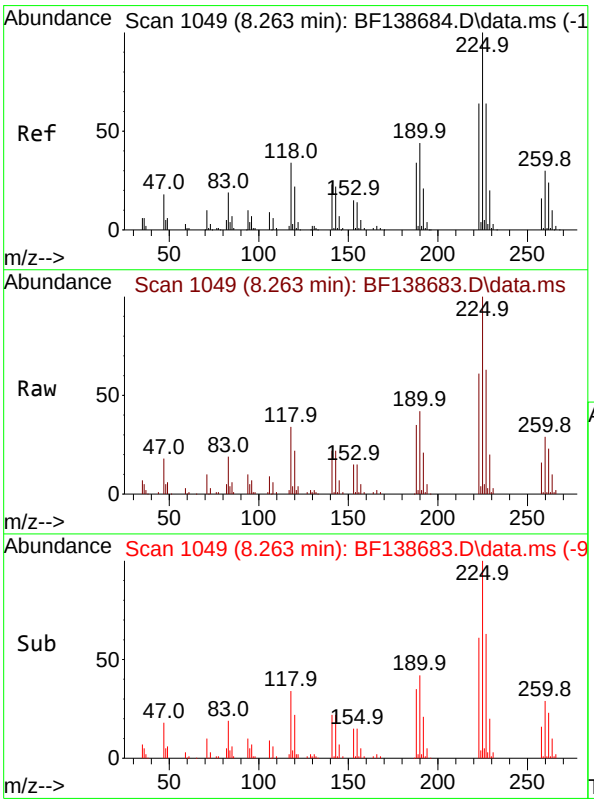

#33
4-Chloroaniline
Concen: 20.887 ng
RT: 8.198 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

Tgt Ion:127 Resp: 111005

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 30.7 | 25.9 | 38.9 |
| 65 | 35.3 | 27.6 | 41.4 |
| 92 | 22.3 | 16.8 | 25.2 |

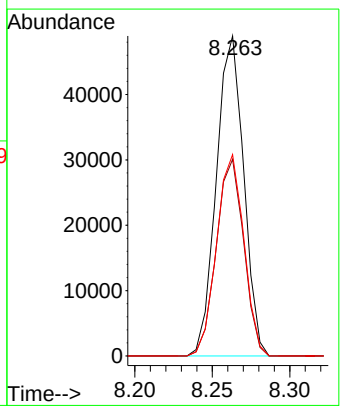


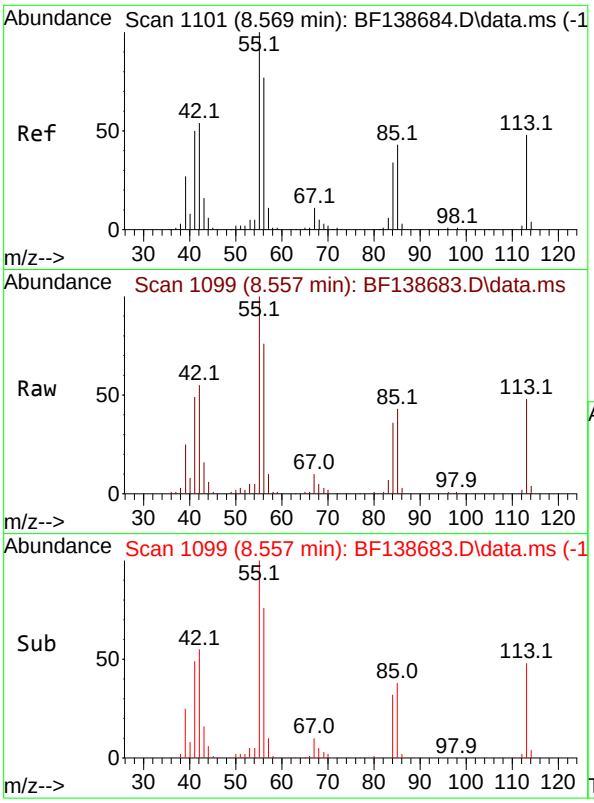




#34
Hexachlorobutadiene
Concen: 20.749 ng
RT: 8.263 min Scan# 1049
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:225 Resp: 60058

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 61.5 | 51.2 | 76.8 |
| 227 | 62.9 | 51.1 | 76.7 |



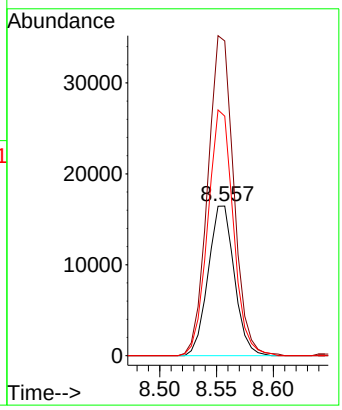


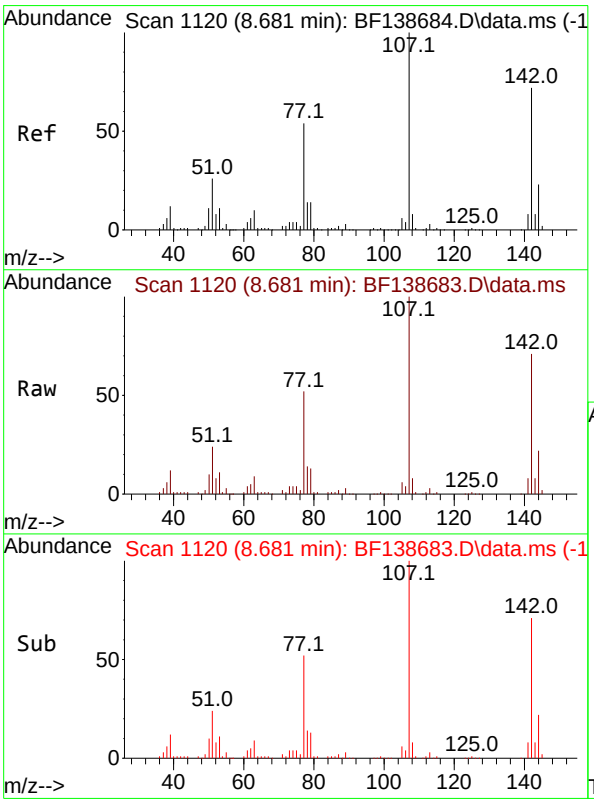

#35
Caprolactam
Concen: 21.333 ng
RT: 8.557 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

Tgt Ion:113 Resp: 26359

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 55 | 210.5 | 186.7 | 226.7 |
| 56 | 160.2 | 138.9 | 178.9 |

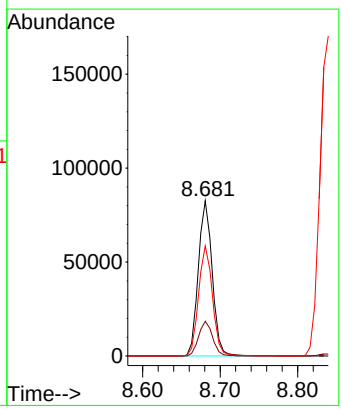


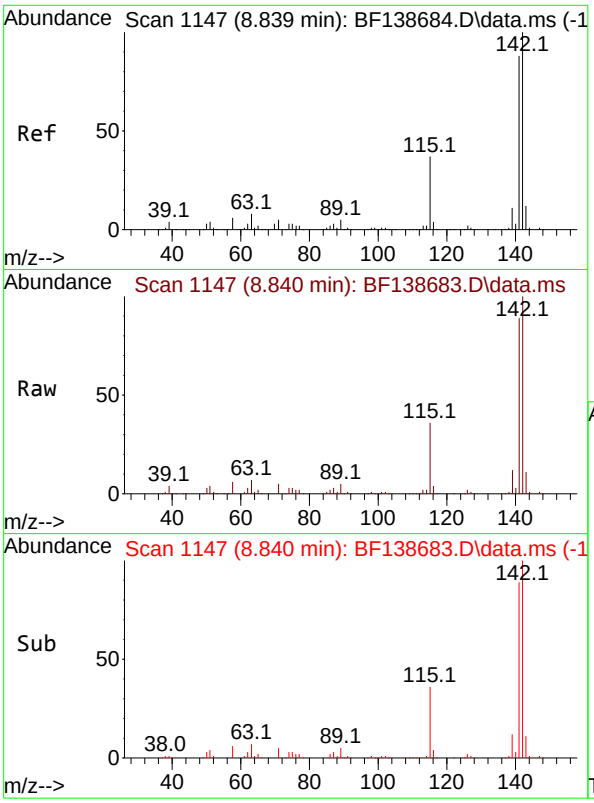




#36
4-Chloro-3-methylphenol
Concen: 21.794 ng
RT: 8.681 min Scan# 1120
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:107 Resp: 103141

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 144 | 22.4 | 18.2 | 27.2 |
| 142 | 70.9 | 57.4 | 86.2 |



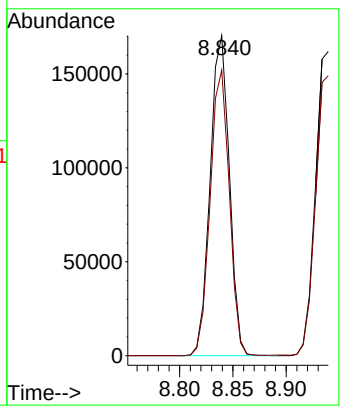


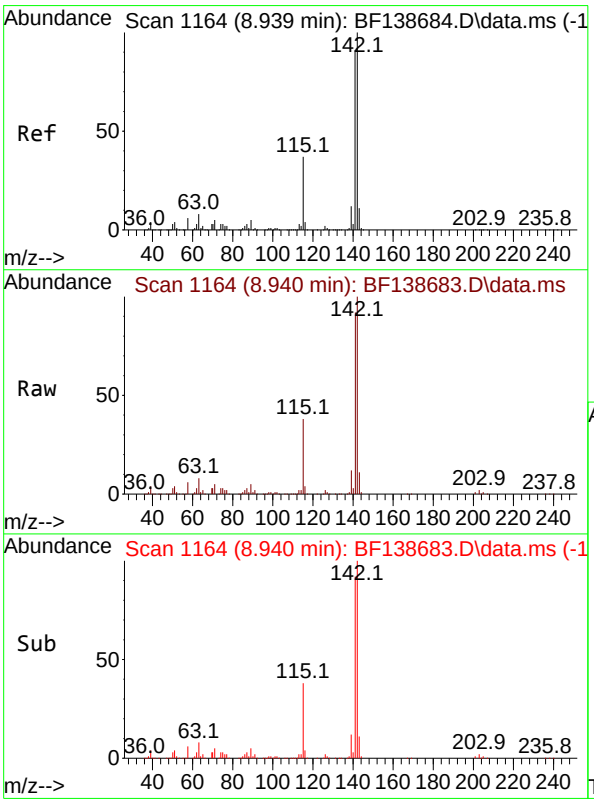

#37
2-Methylnaphthalene
Concen: 21.323 ng
RT: 8.840 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

Tgt Ion:142 Resp: 213210

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 89.3 | 70.8 | 106.2 |

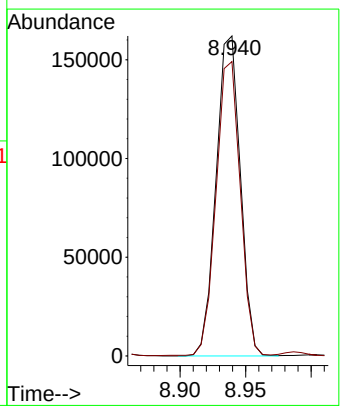


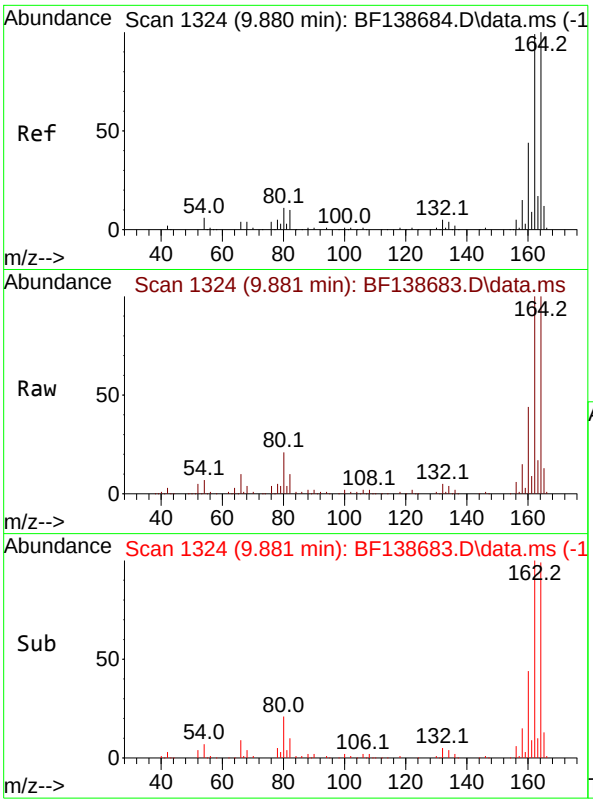




#38
1-Methylnaphthalene
Concen: 21.253 ng
RT: 8.940 min Scan# 1164
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:142 Resp: 208242

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 92.0 | 73.1 | 109.7 |



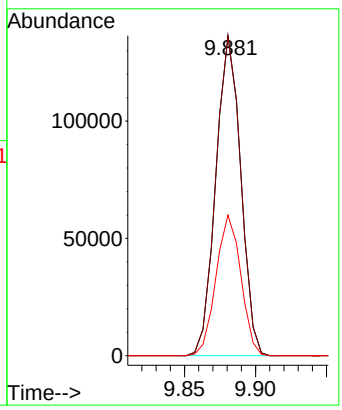


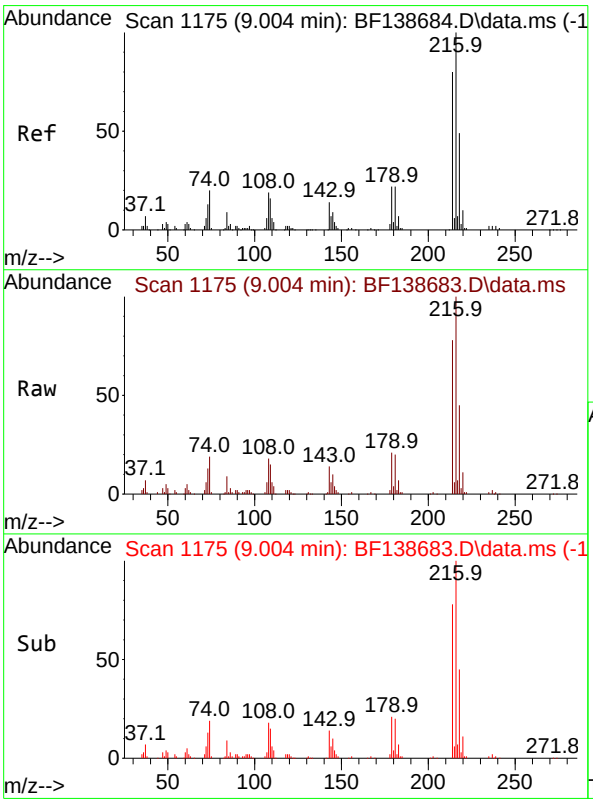

#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.881 min Scan# 1
Delta R.T. 0.001 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

Tgt Ion:164 Resp: 166031

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 99.8 | 79.4 | 119.0 |
| 160 | 43.9 | 35.1 | 52.7 |

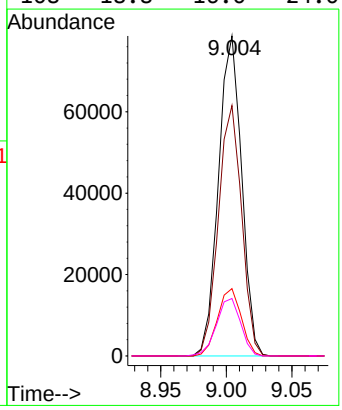


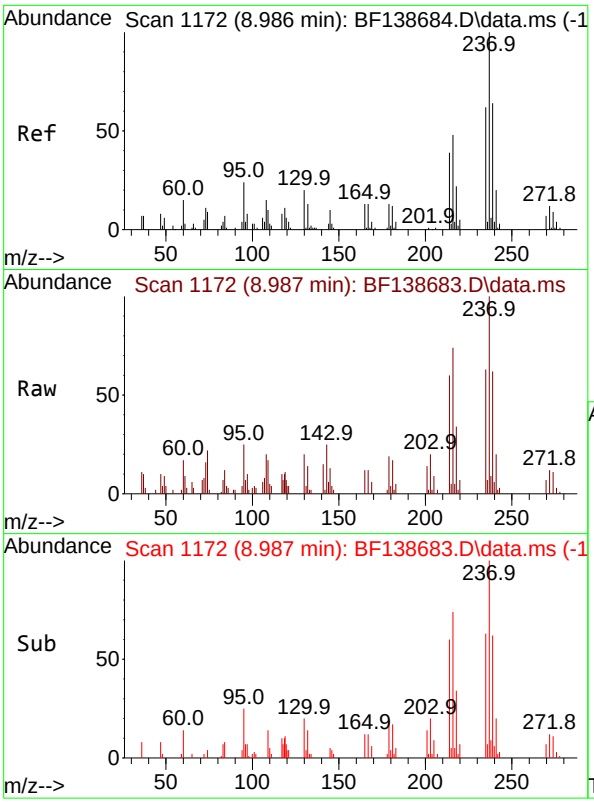




#40
1,2,4,5-Tetrachlorobenzene
Concen: 20.924 ng
RT: 9.004 min Scan# 1175
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:216 Resp: 96503

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 216 | 100 | | |
| 214 | 78.5 | 63.9 | 95.9 |
| 179 | 21.5 | 17.8 | 26.6 |
| 108 | 18.8 | 16.0 | 24.0 |



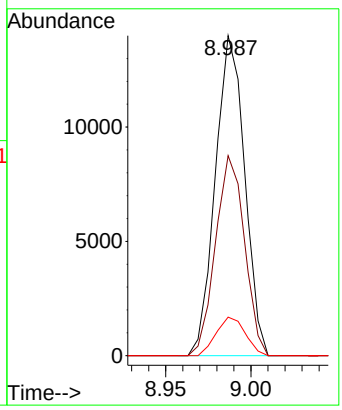


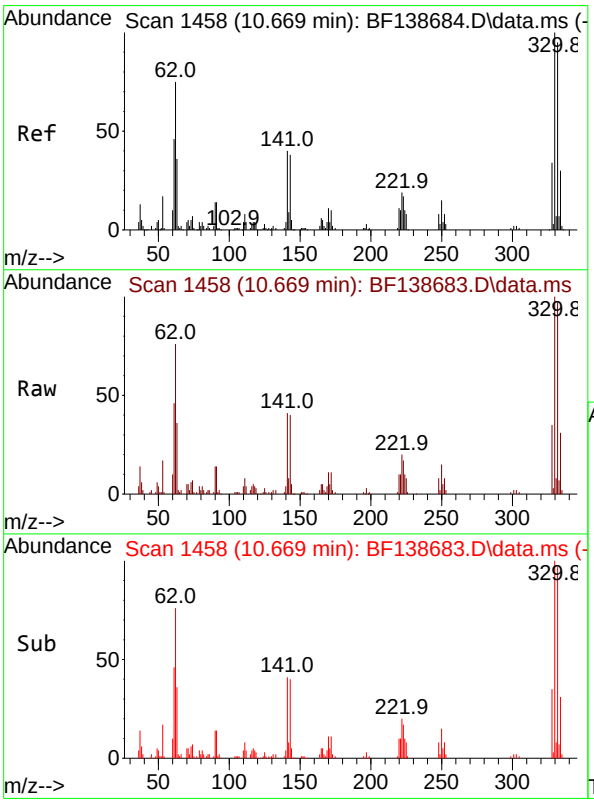

#41
Hexachlorocyclopentadiene
Concen: 19.505 ng
RT: 8.987 min Scan# 11
Delta R.T. 0.001 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

Tgt Ion:237 Resp: 16767

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 237 | 100 | | |
| 235 | 62.5 | 41.8 | 81.8 |
| 272 | 12.0 | 0.0 | 32.2 |

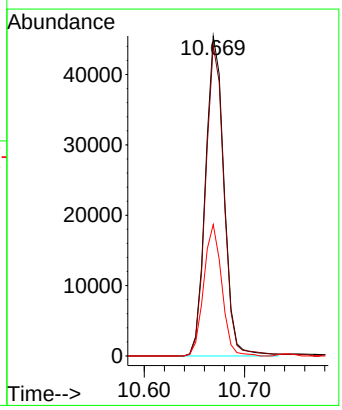


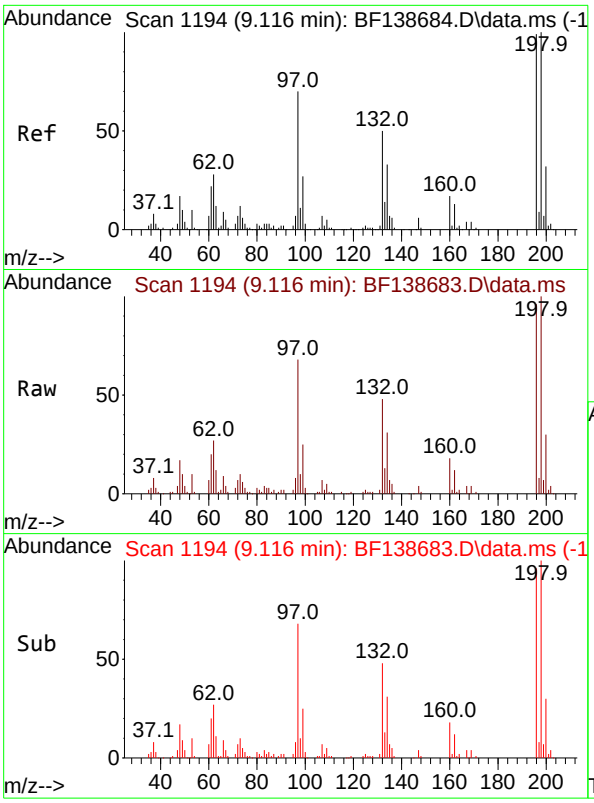




#42
2,4,6-Tribromophenol
Concen: 42.922 ng
RT: 10.669 min Scan# 1458
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:330 Resp: 58374

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 97.0 | 76.4 | 114.6 |
| 141 | 39.9 | 31.1 | 46.7 |



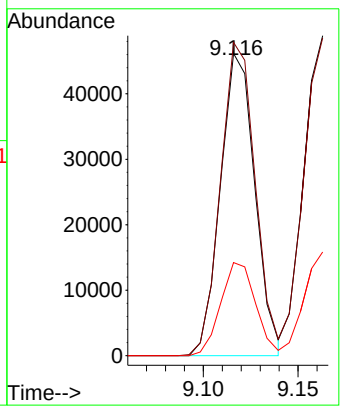


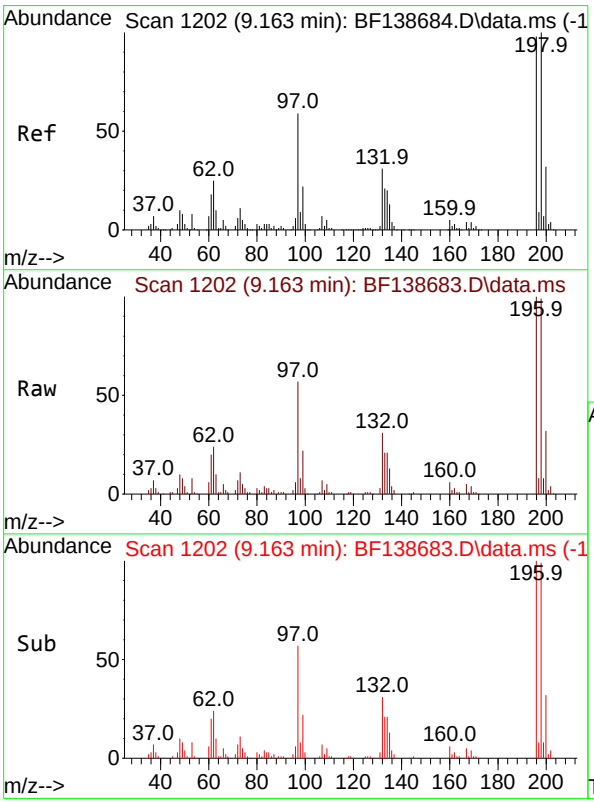

#43
2,4,6-Trichlorophenol
Concen: 20.830 ng
RT: 9.116 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

Tgt Ion:196 Resp: 58575

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 103.7 | 80.5 | 120.7 |
| 200 | 30.8 | 25.9 | 38.9 |

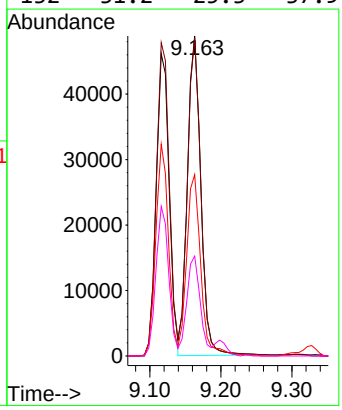


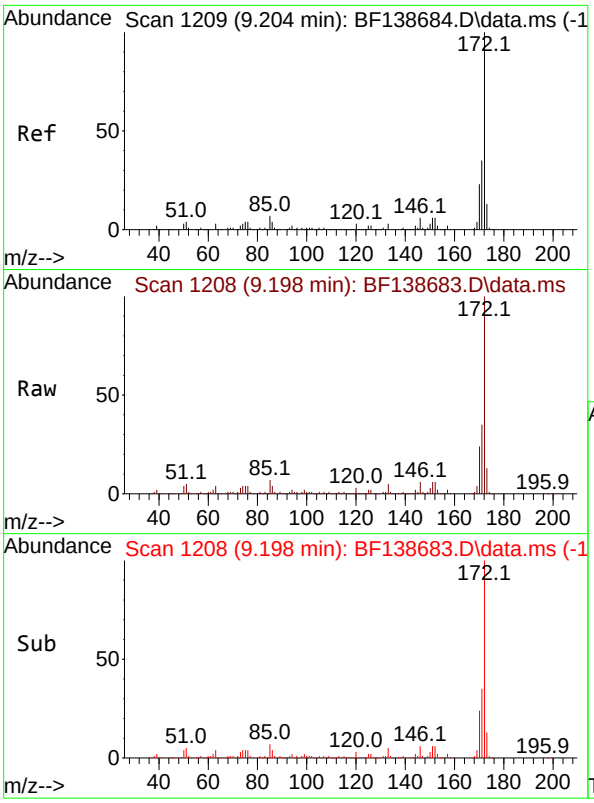




#44
2,4,5-Trichlorophenol
Concen: 20.907 ng
RT: 9.163 min Scan# 1202
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:196 Resp: 64272

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 99.3 | 81.2 | 121.8 |
| 97 | 56.7 | 47.8 | 71.6 |
| 132 | 31.2 | 25.3 | 37.9 |



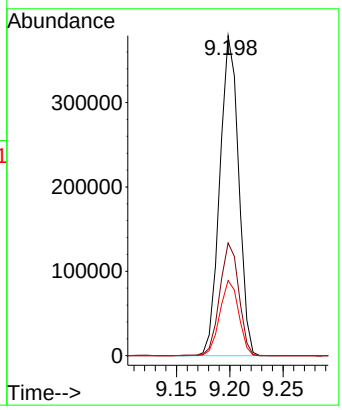


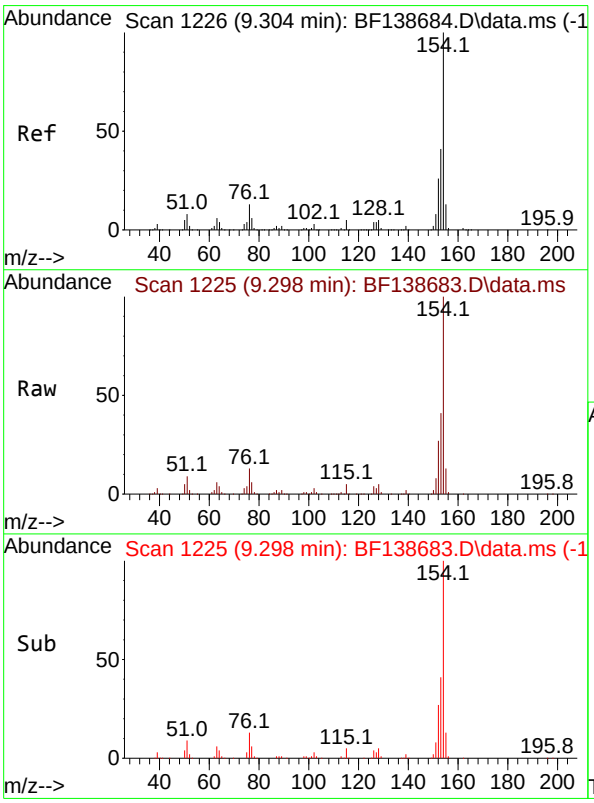

#45
2-Fluorobiphenyl
Concen: 42.138 ng
RT: 9.198 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

Tgt Ion:172 Resp: 465641

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.3 | 28.3 | 42.5 |
| 170 | 23.5 | 18.8 | 28.2 |

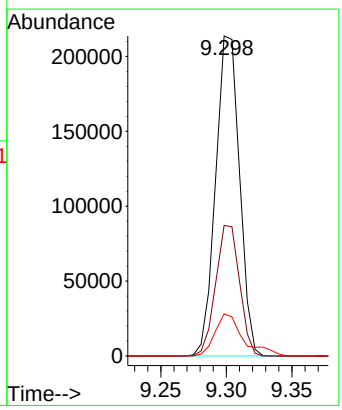


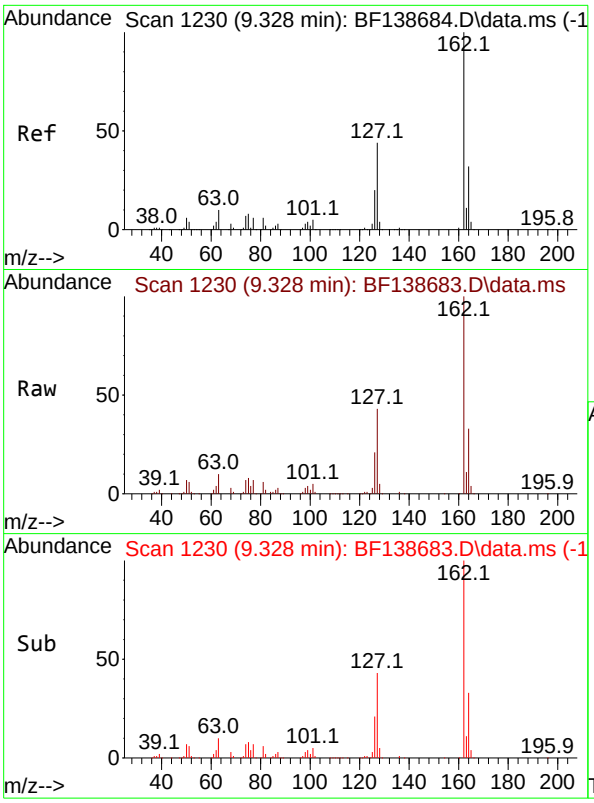




#46
1,1'-Biphenyl
Concen: 20.807 ng
RT: 9.298 min Scan# 1225
Delta R.T. -0.006 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:154 Resp: 270560

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 40.8 | 20.8 | 60.8 |
| 76 | 13.2 | 0.0 | 32.8 |



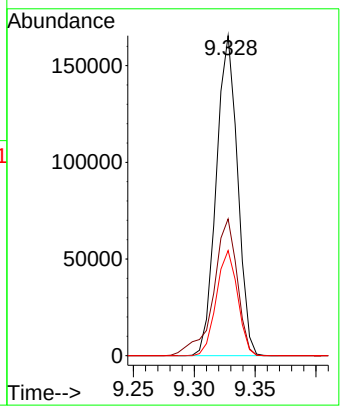


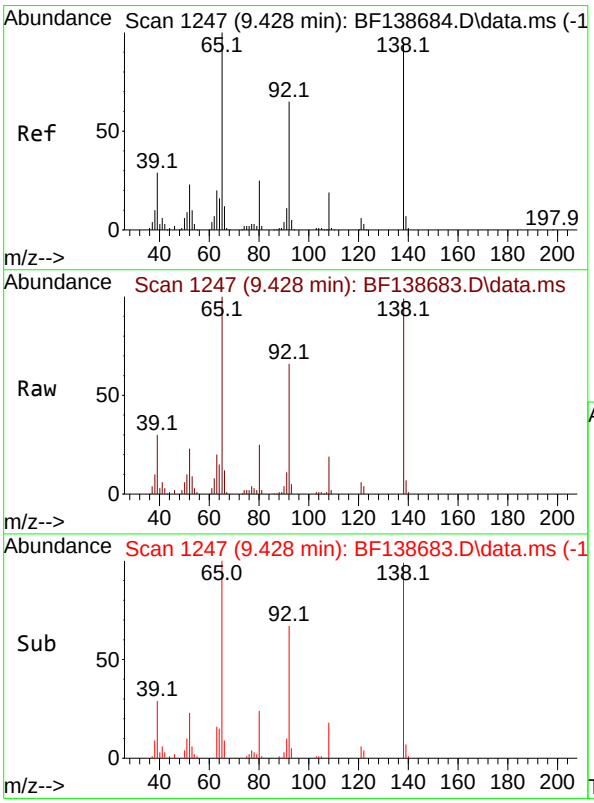

#47
2-Chloronaphthalene
Concen: 20.822 ng
RT: 9.328 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

Tgt Ion:162 Resp: 201367

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 127 | 42.8 | 35.4 | 53.2 |
| 164 | 32.9 | 25.6 | 38.4 |

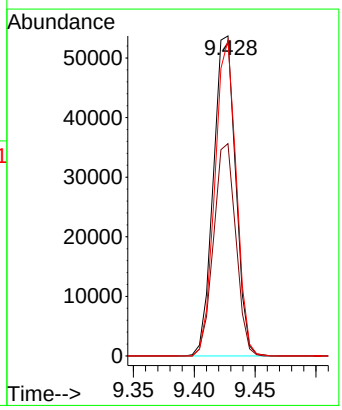


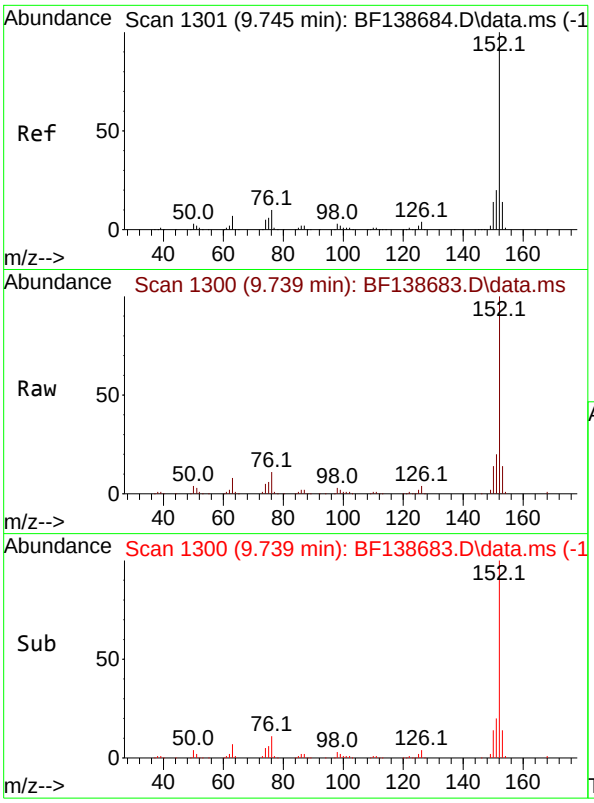




#48
2-Nitroaniline
Concen: 20.943 ng
RT: 9.428 min Scan# 1247
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion: 65 Resp: 68663

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 92 | 66.3 | 52.0 | 78.0 |
| 138 | 98.6 | 76.2 | 114.4 |



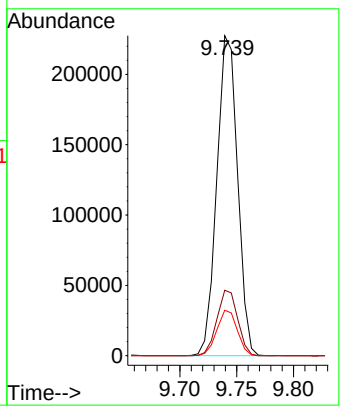


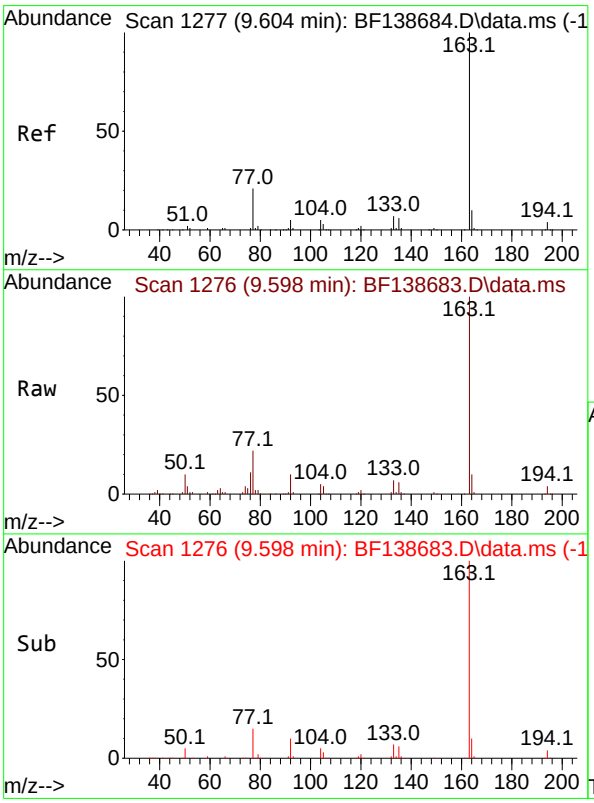

#49
Acenaphthylene
Concen: 21.093 ng
RT: 9.739 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

Tgt Ion:152 Resp: 289321

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.4 | 16.0 | 24.0 |
| 153 | 14.2 | 11.0 | 16.4 |

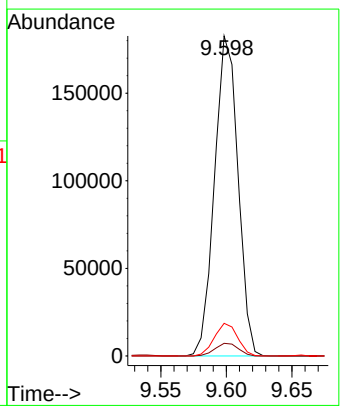


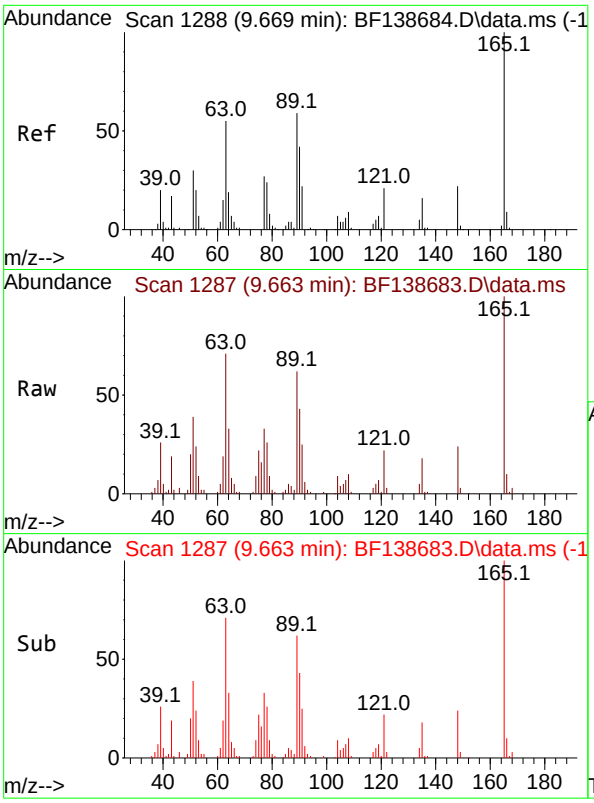




#50
Dimethylphthalate
Concen: 21.376 ng
RT: 9.598 min Scan# 1276
Delta R.T. -0.006 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:163 Resp: 226938

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 4.0 | 3.1 | 4.7 |
| 164 | 10.2 | 7.8 | 11.8 |



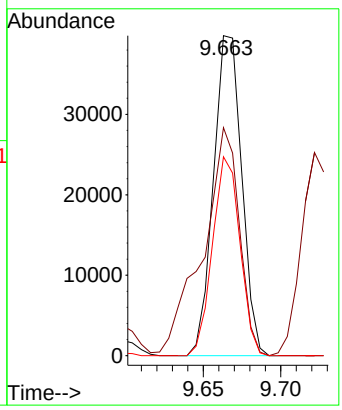


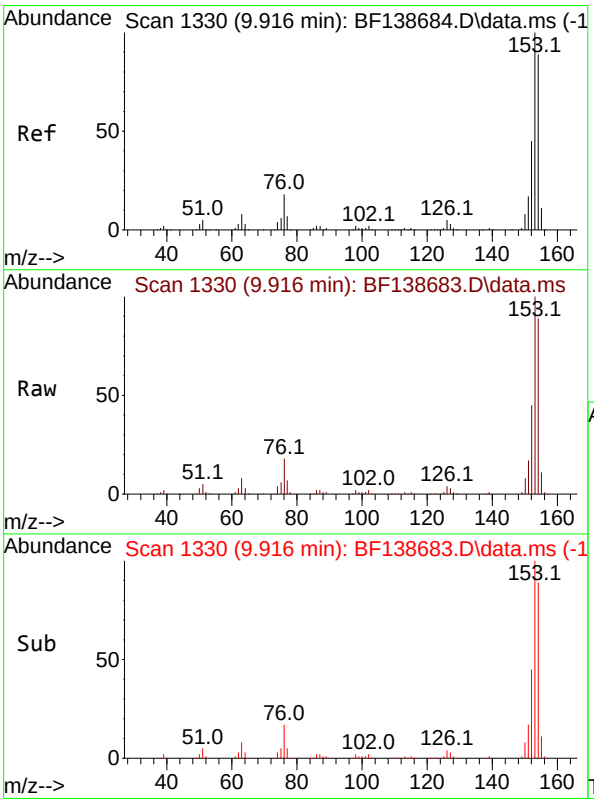

#51
2,6-Dinitrotoluene
Concen: 21.078 ng
RT: 9.663 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

Tgt Ion:165 Resp: 50501

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 71.3 | 52.0 | 78.0 |
| 89 | 62.2 | 47.0 | 70.6 |

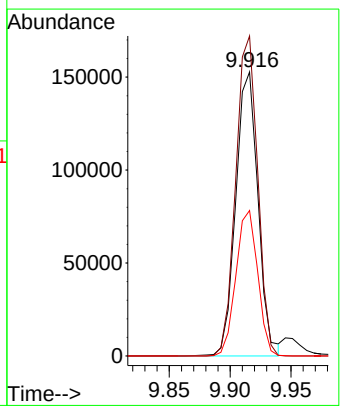


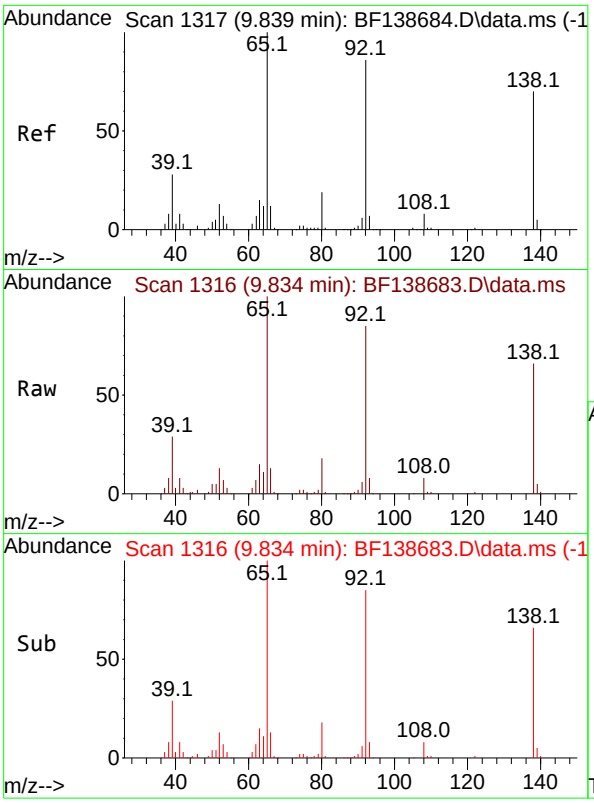




#52
Acenaphthene
Concen: 21.047 ng
RT: 9.916 min Scan# 1330
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:154 Resp: 194057

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 112.6 | 89.9 | 134.9 |
| 152 | 51.2 | 40.6 | 60.8 |



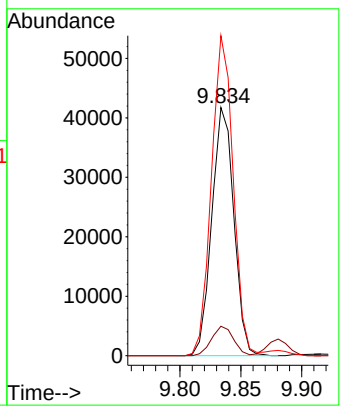


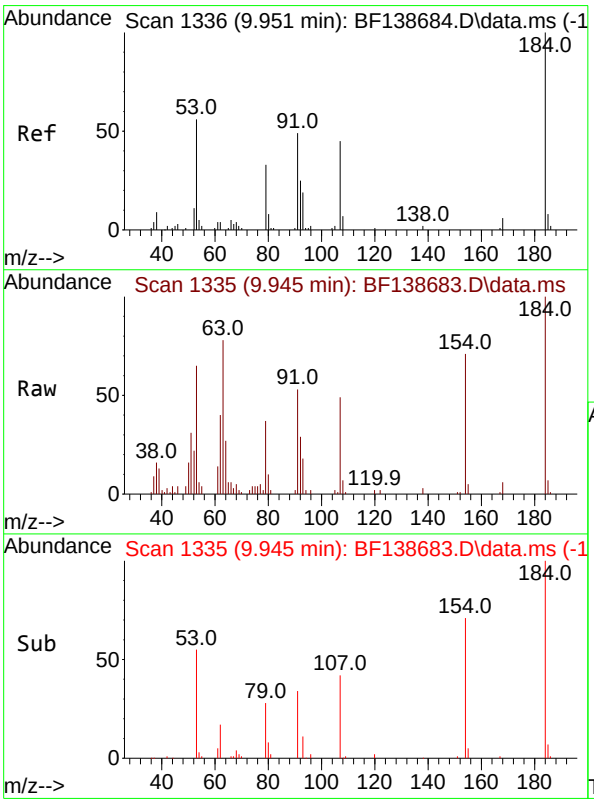

#53
3-Nitroaniline
Concen: 21.244 ng
RT: 9.834 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

Tgt Ion:138 Resp: 52618

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 108 | 11.9 | 9.1 | 13.7 |
| 92 | 128.9 | 98.7 | 148.1 |

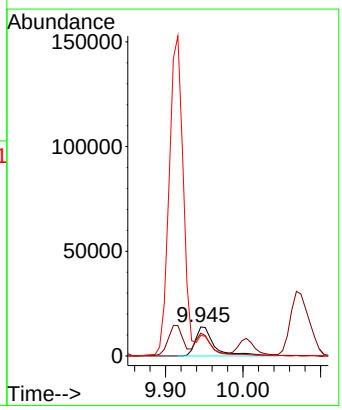


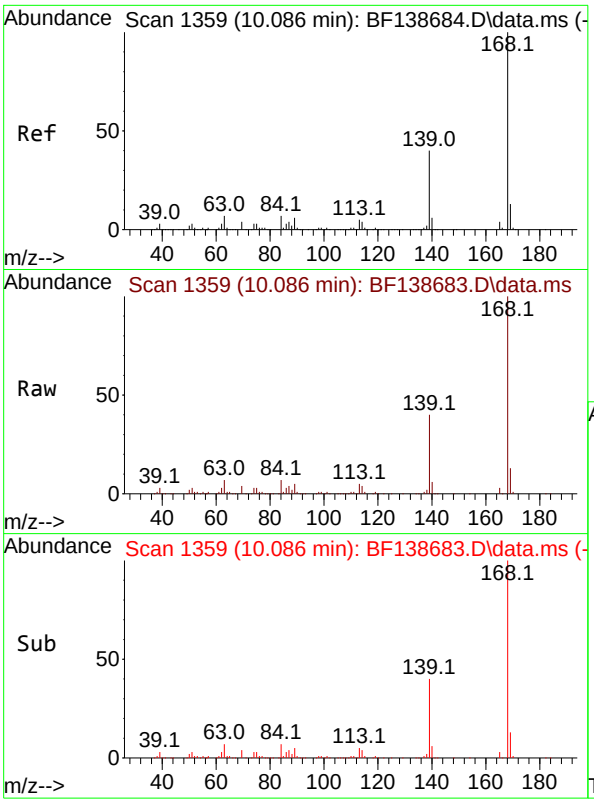




#54
2,4-Dinitrophenol
Concen: 21.374 ng
RT: 9.945 min Scan# 1335
Delta R.T. -0.006 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:184 Resp: 23573

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 63 | 78.5 | 57.5 | 86.3 |
| 154 | 70.7 | 51.7 | 77.5 |



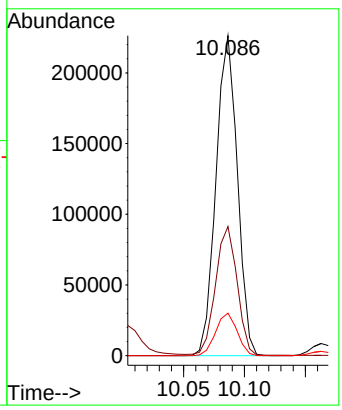


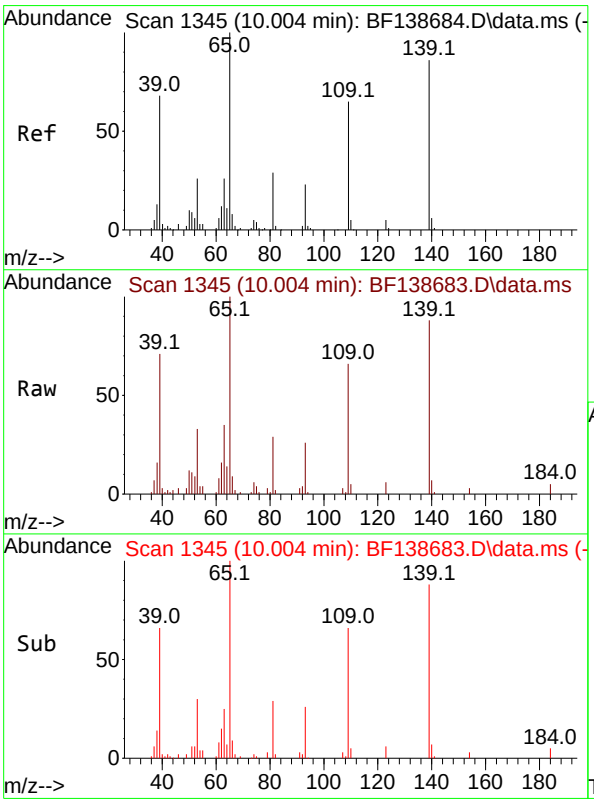

#55
Dibenzofuran
Concen: 21.249 ng
RT: 10.086 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

Tgt Ion:168 Resp: 276572

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 40.4 | 32.6 | 49.0 |
| 169 | 13.3 | 10.7 | 16.1 |

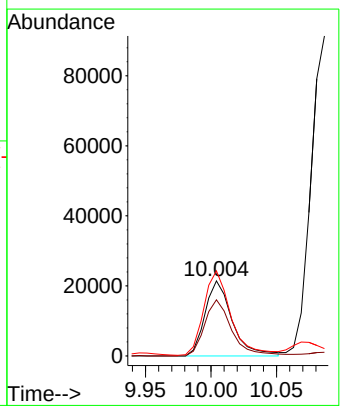


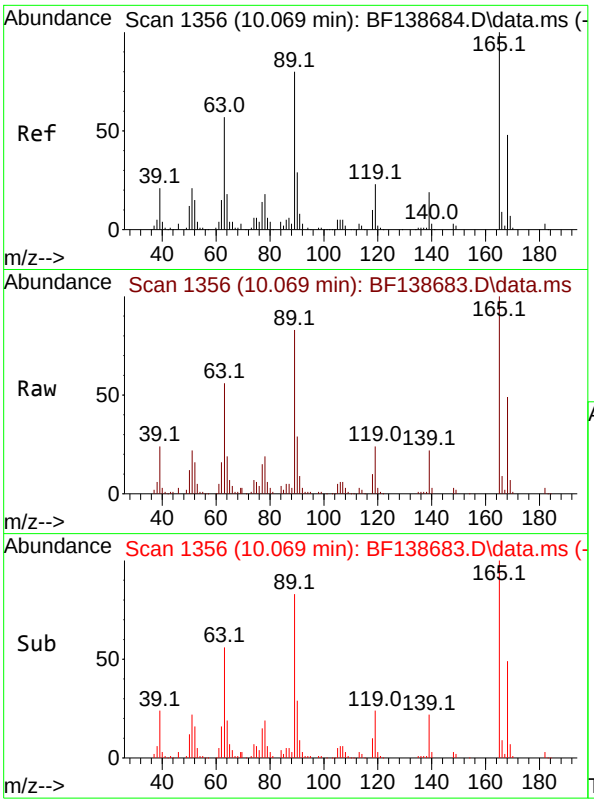




#56
4-Nitrophenol
Concen: 20.745 ng
RT: 10.004 min Scan# 1345
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:139 Resp: 30898

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 74.9 | 55.5 | 95.5 |
| 65 | 113.5 | 96.7 | 136.7 |



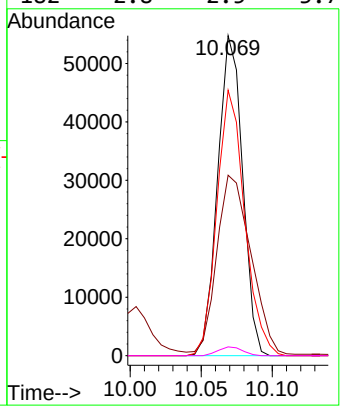


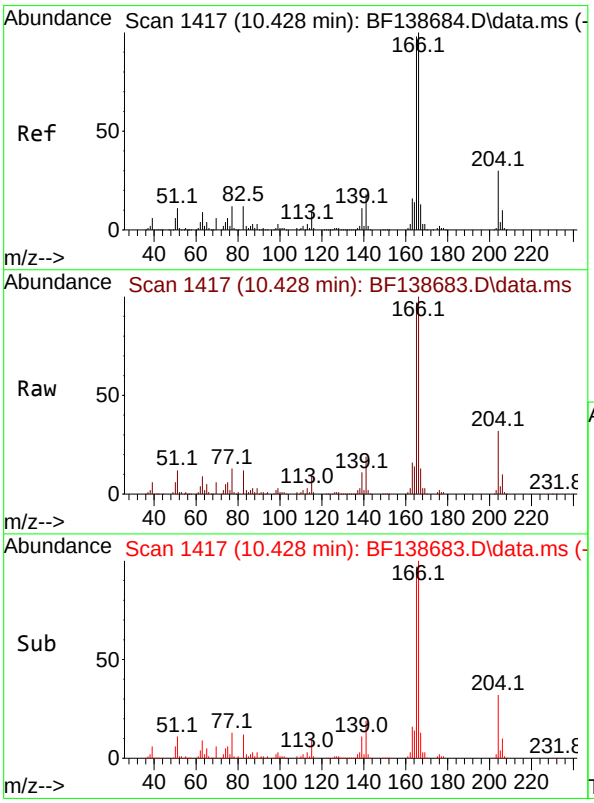

#57
2,4-Dinitrotoluene
Concen: 21.832 ng
RT: 10.069 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

Tgt Ion:165 Resp: 66734

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 56.4 | 46.3 | 69.5 |
| 89 | 82.9 | 64.2 | 96.4 |
| 182 | 2.8 | 2.5 | 3.7 |

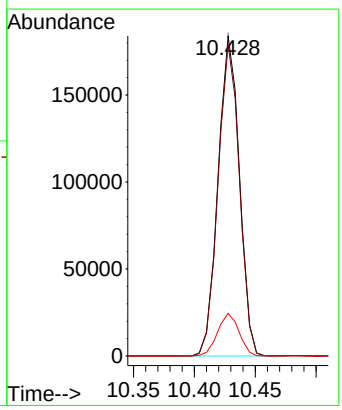


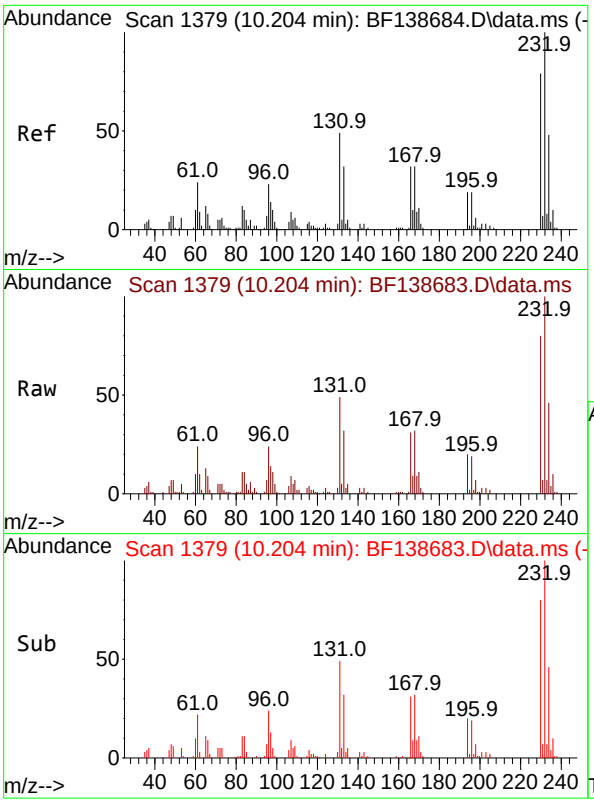




#58
Fluorene
Concen: 21.646 ng
RT: 10.428 min Scan# 1417
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:166 Resp: 224349

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 97.3 | 78.4 | 117.6 |
| 167 | 13.3 | 10.6 | 16.0 |



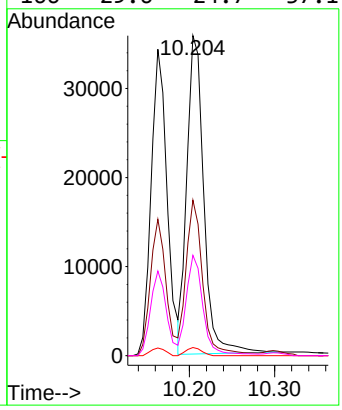


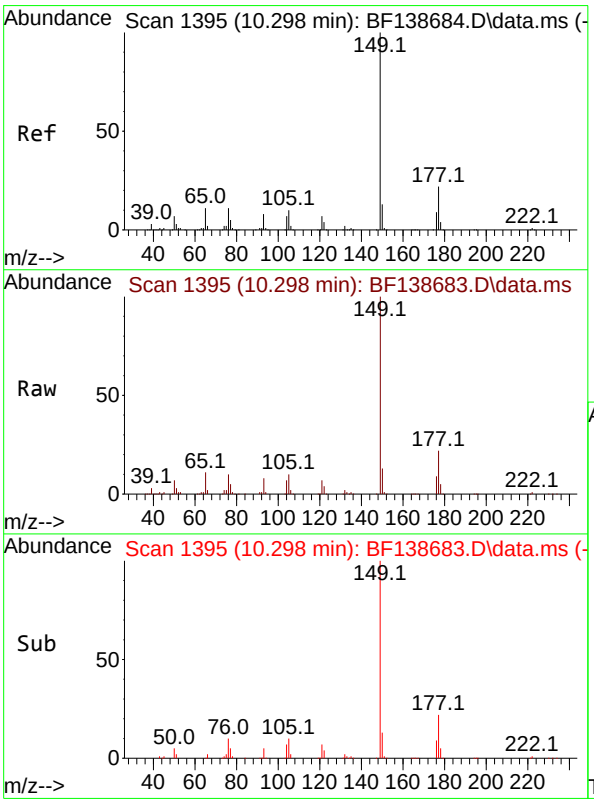

#59
2,3,4,6-Tetrachlorophenol
Concen: 21.005 ng
RT: 10.204 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

Tgt Ion:232 Resp: 49368

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 232 | 100 | | |
| 131 | 48.1 | 37.0 | 55.4 |
| 130 | 2.4 | 2.0 | 3.0 |
| 166 | 29.6 | 24.7 | 37.1 |

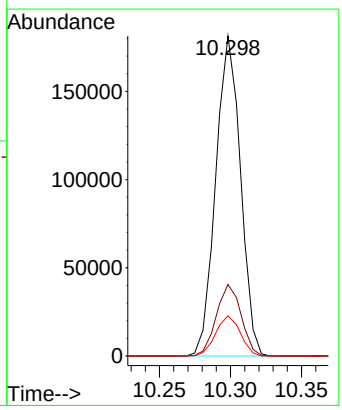


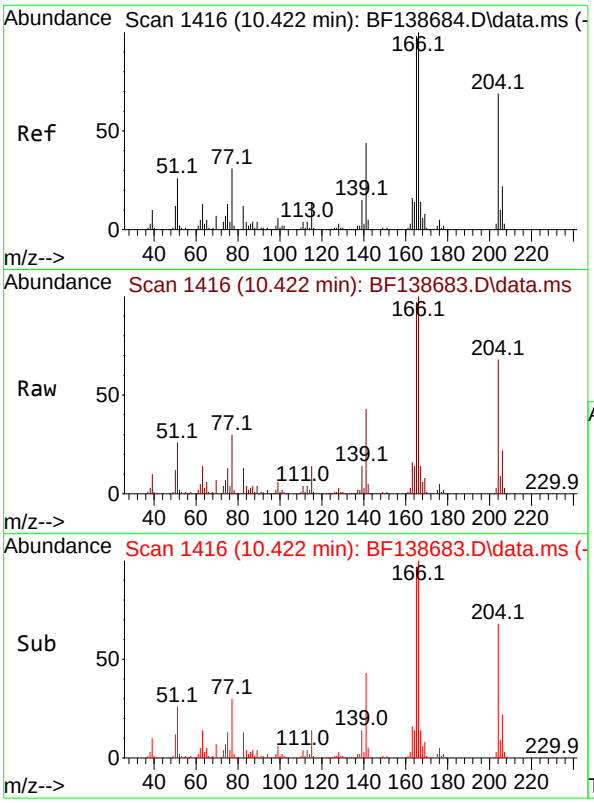




#60
Diethylphthalate
Concen: 21.793 ng
RT: 10.298 min Scan# 1395
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:149 Resp: 219374

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 177 | 22.4 | 17.8 | 26.8 |
| 150 | 12.6 | 10.1 | 15.1 |



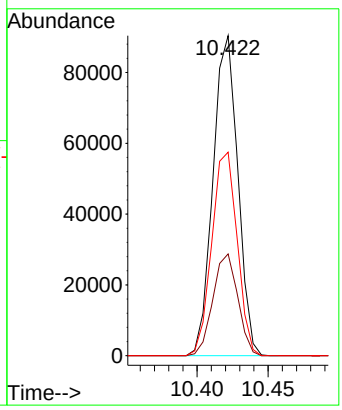


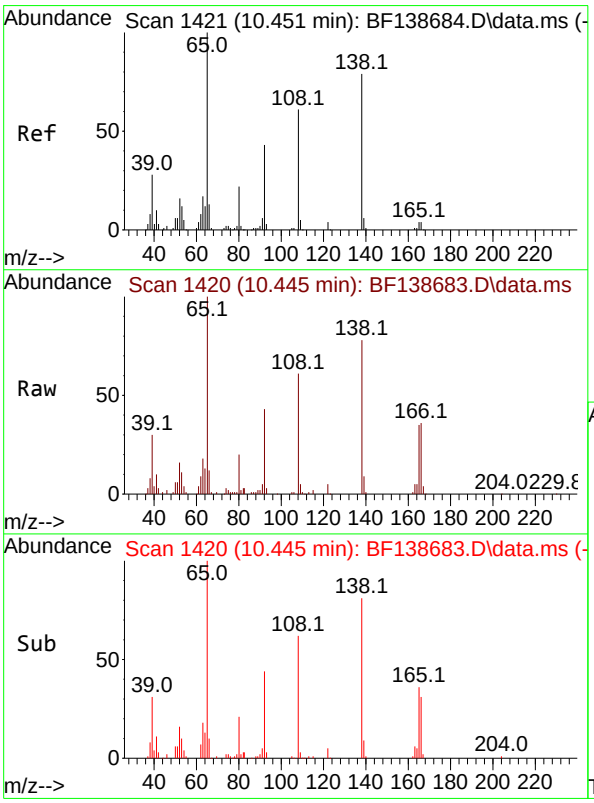

#61
4-Chlorophenyl-phenylether
Concen: 21.552 ng
RT: 10.422 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

Tgt Ion:204 Resp: 109862

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 204 | 100 | | |
| 206 | 31.8 | 26.1 | 39.1 |
| 141 | 63.6 | 51.4 | 77.0 |

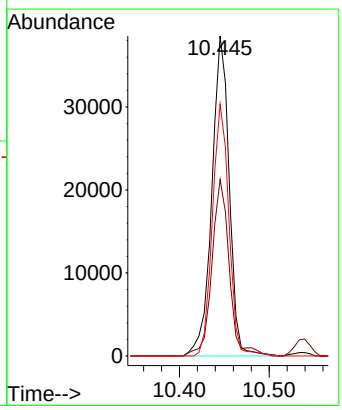


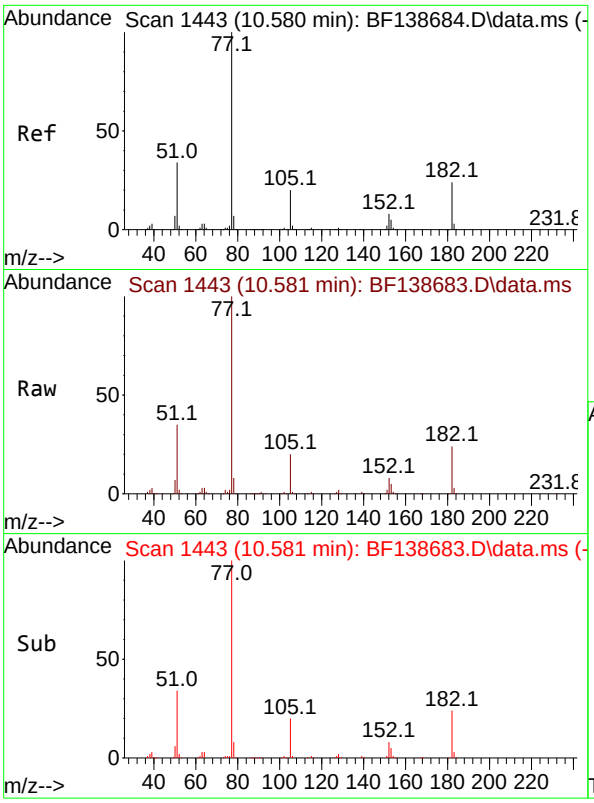




#62
4-Nitroaniline
Concen: 22.077 ng
RT: 10.445 min Scan# 1420
Delta R.T. -0.006 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:138 Resp: 51964

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 55.1 | 34.2 | 74.2 |
| 108 | 78.7 | 56.2 | 96.2 |



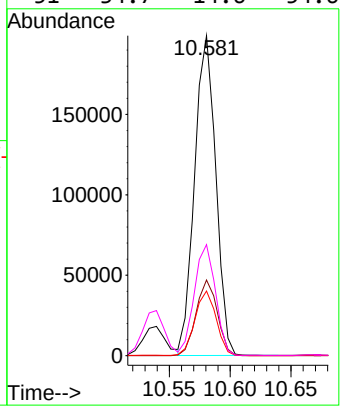


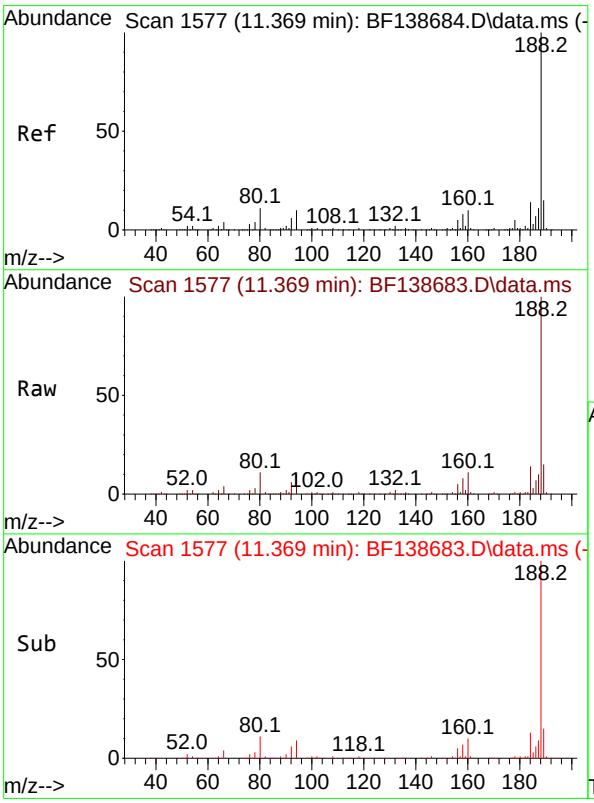

#63
Azobenzene
Concen: 21.566 ng
RT: 10.581 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

Tgt Ion: 77 Resp: 240769

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 182 | 23.7 | 3.4 | 43.4 |
| 105 | 20.2 | 0.2 | 40.2 |
| 51 | 34.7 | 14.6 | 54.6 |

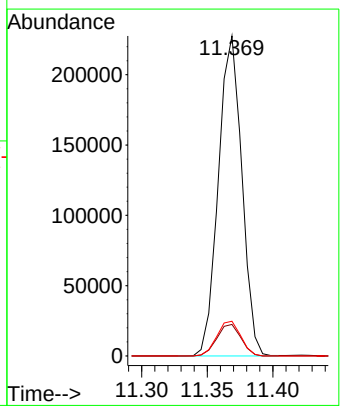


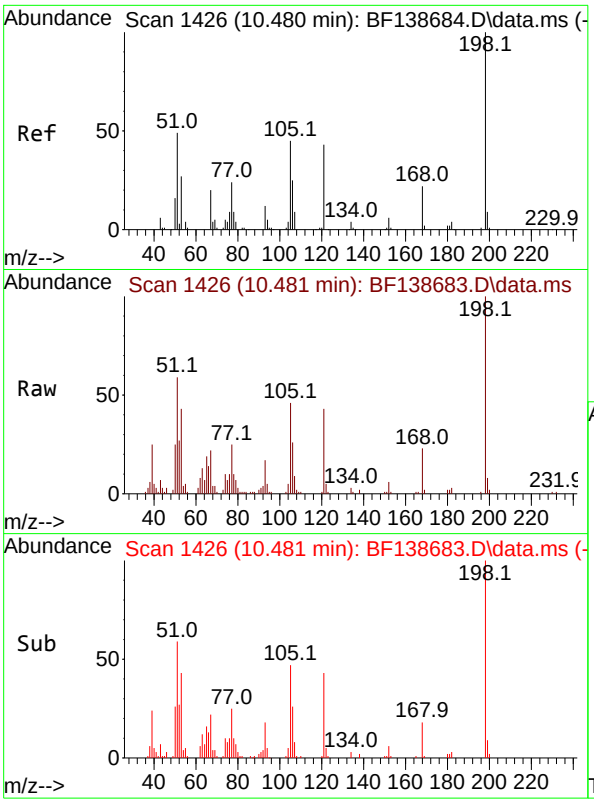




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.369 min Scan# 1577
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:188 Resp: 283009

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 9.8 | 7.6 | 11.4 |
| 80 | 10.9 | 8.6 | 12.8 |



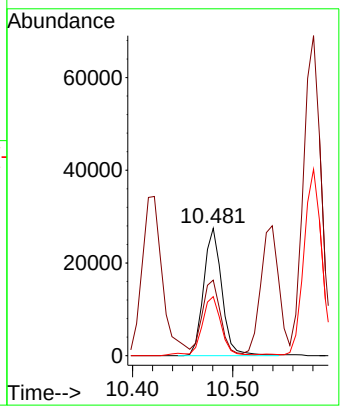


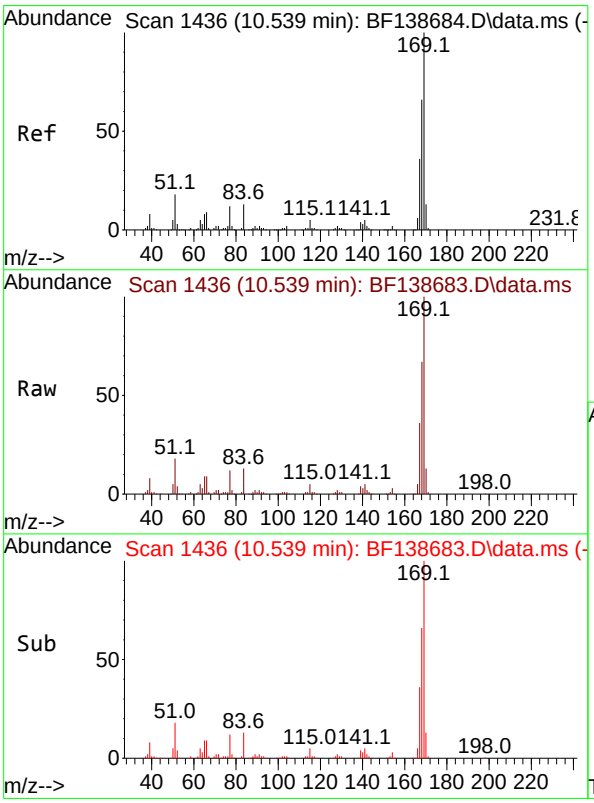

#65
4,6-Dinitro-2-methylphenol
Concen: 20.206 ng
RT: 10.481 min Scan# 14
Delta R.T. 0.001 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

Tgt Ion:198 Resp: 34887

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 59.2 | 39.9 | 79.9 |
| 105 | 46.3 | 26.1 | 66.1 |

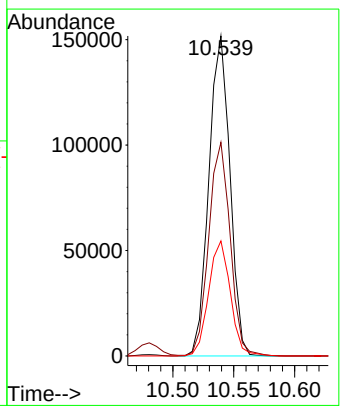


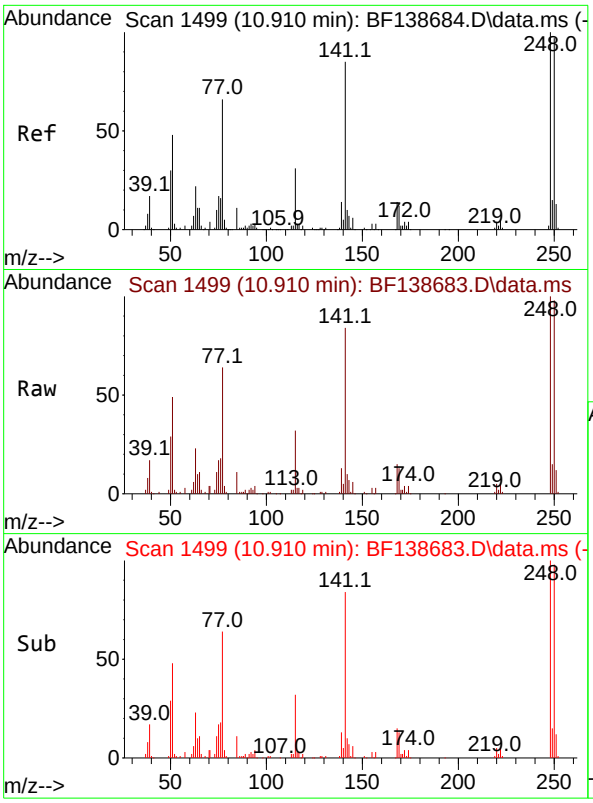




#66
n-Nitrosodiphenylamine
Concen: 20.636 ng
RT: 10.539 min Scan# 1436
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:169 Resp: 182551

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 66.7 | 53.0 | 79.6 |
| 167 | 35.9 | 29.0 | 43.6 |



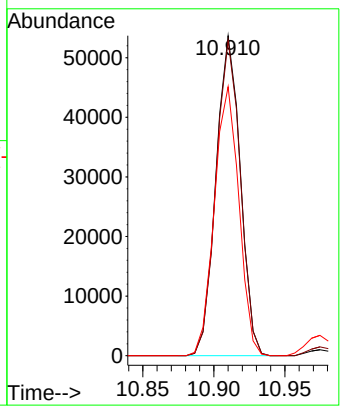


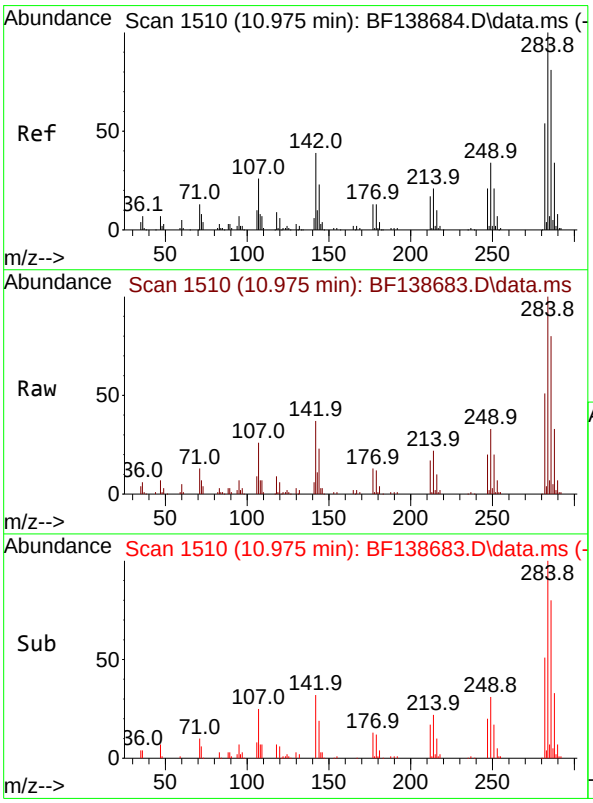

#67
4-Bromophenyl-phenylether
Concen: 20.903 ng
RT: 10.910 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

Tgt Ion:248 Resp: 64049

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 98.5 | 77.7 | 116.5 |
| 141 | 84.1 | 68.0 | 102.0 |

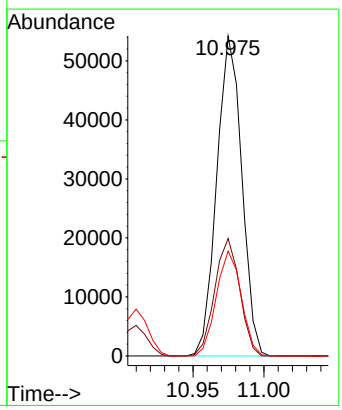


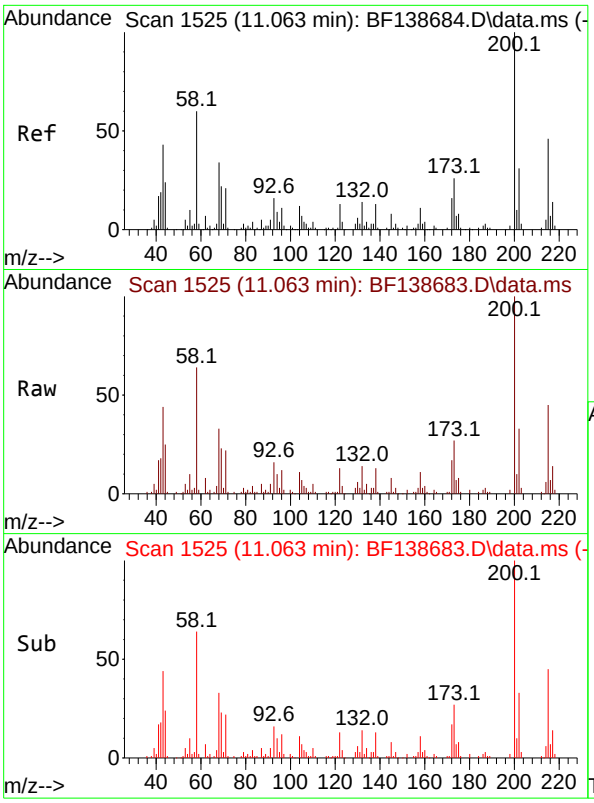




#68
Hexachlorobenzene
Concen: 20.966 ng
RT: 10.975 min Scan# 1510
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:284 Resp: 66331

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 36.7 | 31.3 | 46.9 |
| 249 | 32.8 | 27.2 | 40.8 |



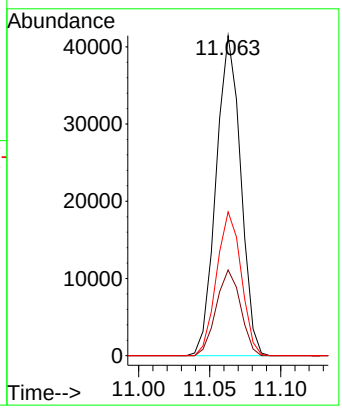


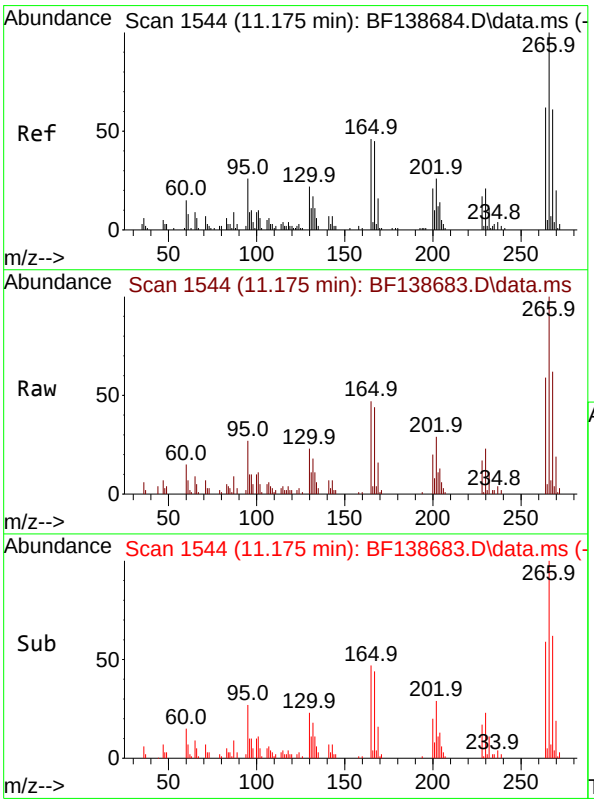

#69
Atrazine
Concen: 21.847 ng
RT: 11.063 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

Tgt Ion:200 Resp: 49863

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 26.8 | 6.0 | 46.0 |
| 215 | 45.0 | 26.1 | 66.1 |

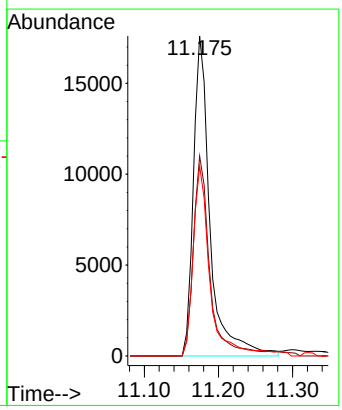


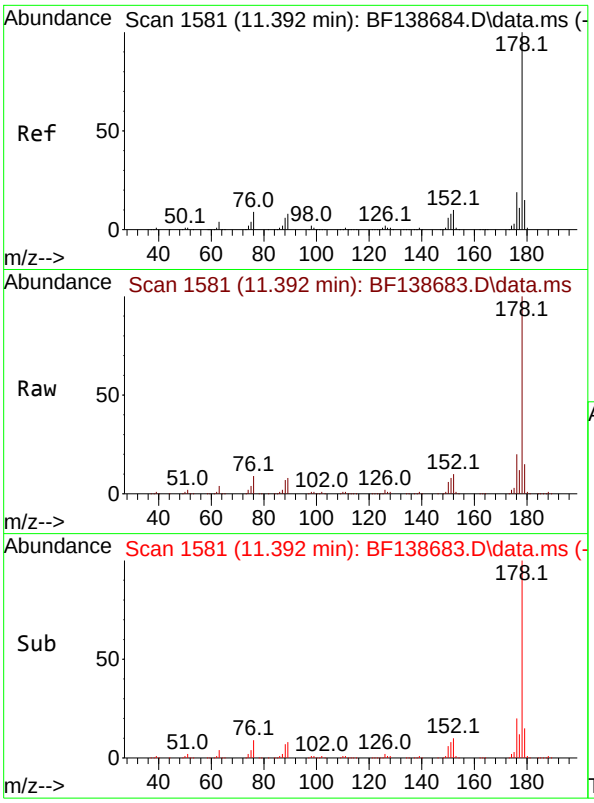




#70
Pentachlorophenol
Concen: 19.263 ng
RT: 11.175 min Scan# 1544
Delta R.T. -0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:266 Resp: 27470

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 268 | 62.5 | 49.2 | 73.8 |
| 264 | 59.4 | 49.8 | 74.6 |



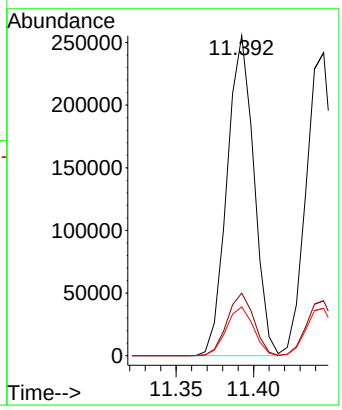


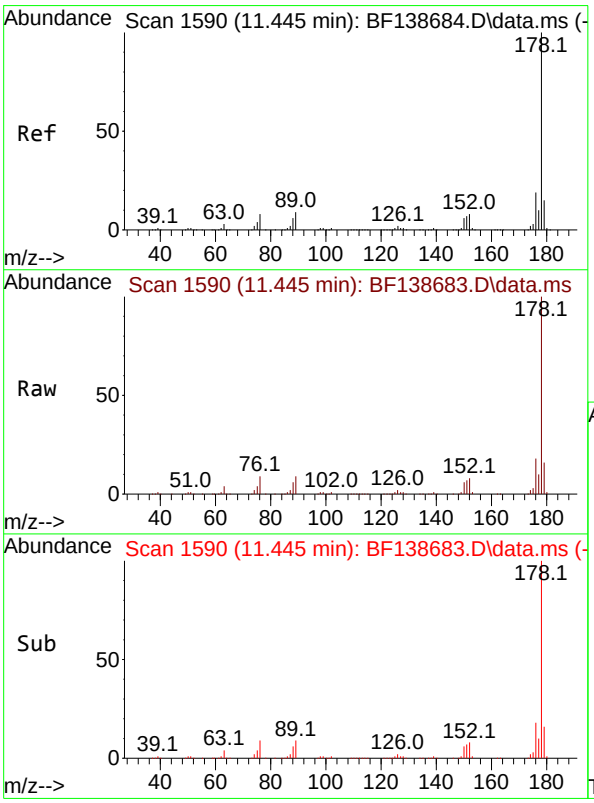

#71
Phenanthrene
Concen: 21.117 ng
RT: 11.392 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

Tgt Ion:178 Resp: 307735

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.5 | 15.4 | 23.0 |
| 179 | 15.3 | 12.2 | 18.2 |

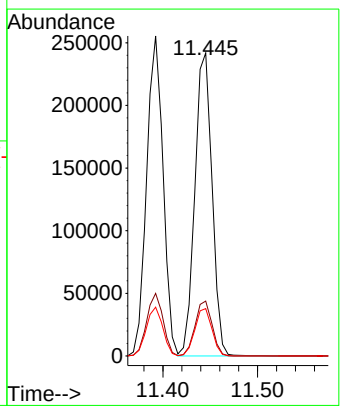


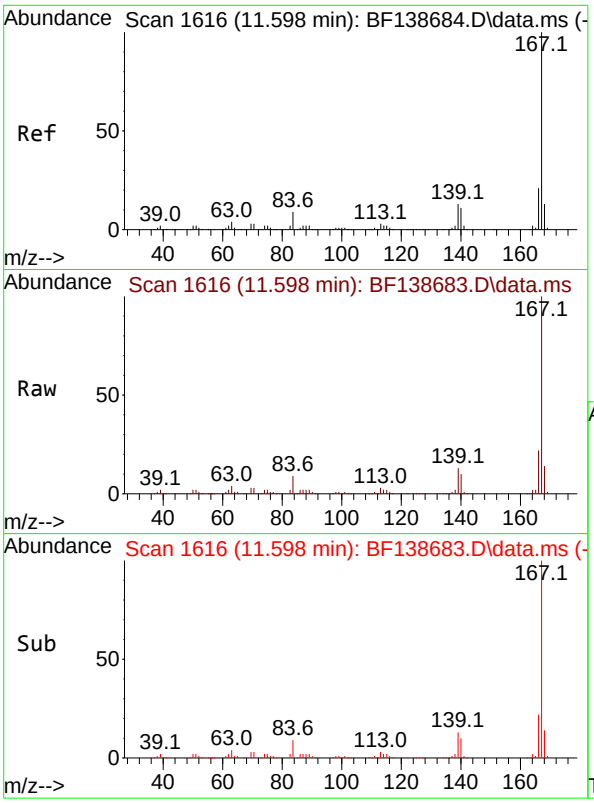




#72
Anthracene
Concen: 21.256 ng
RT: 11.445 min Scan# 1590
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:178 Resp: 305147

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.1 | 14.9 | 22.3 |
| 179 | 15.6 | 12.4 | 18.6 |



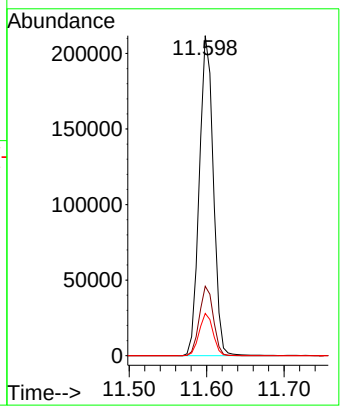


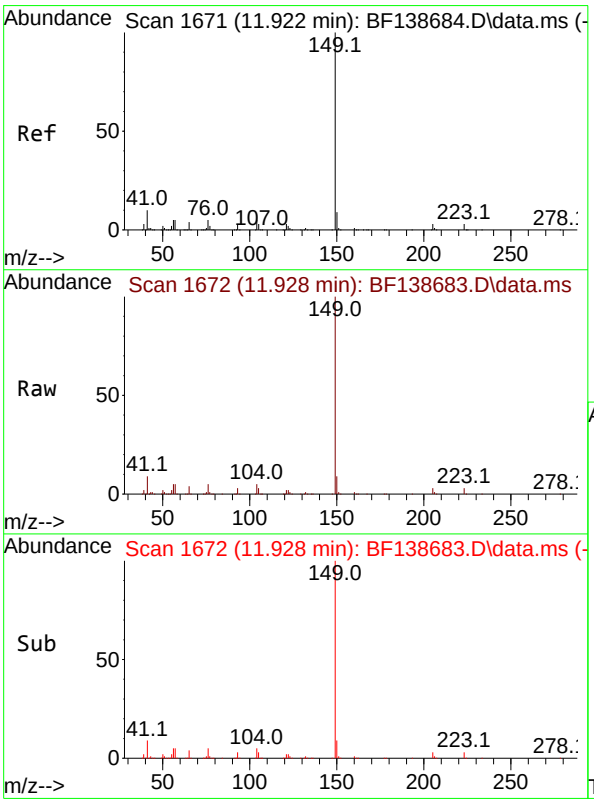

#73
Carbazole
Concen: 21.474 ng
RT: 11.598 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

Tgt Ion:167 Resp: 265973

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 21.7 | 17.2 | 25.8 |
| 139 | 13.2 | 10.6 | 16.0 |

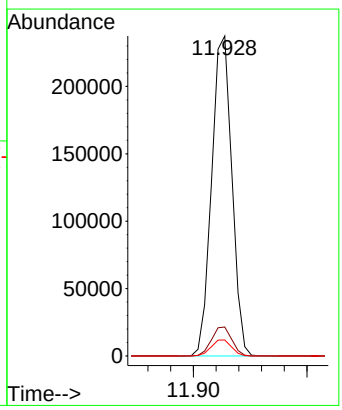


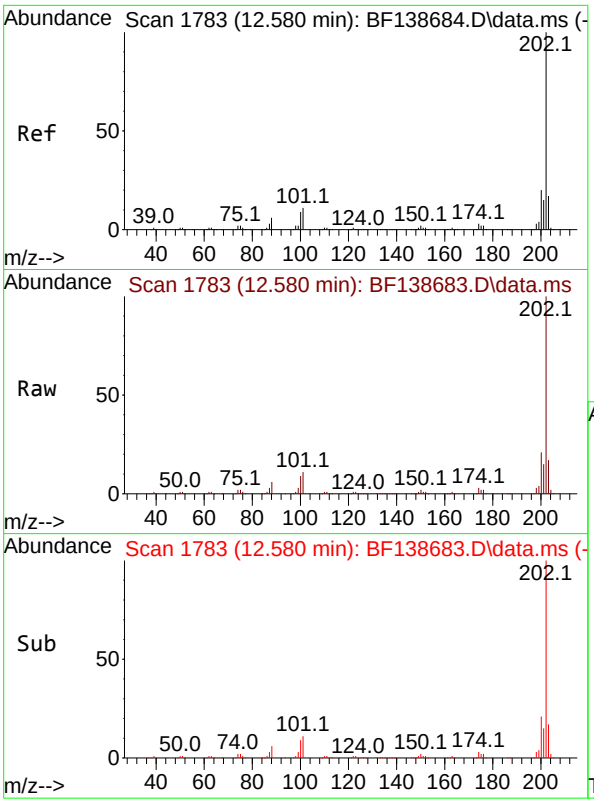




#74
Di-n-butylphthalate
Concen: 21.131 ng
RT: 11.928 min Scan# 1672
Delta R.T. 0.006 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:149 Resp: 294214

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 9.0 | 7.4 | 11.0 |
| 104 | 5.0 | 4.1 | 6.1 |



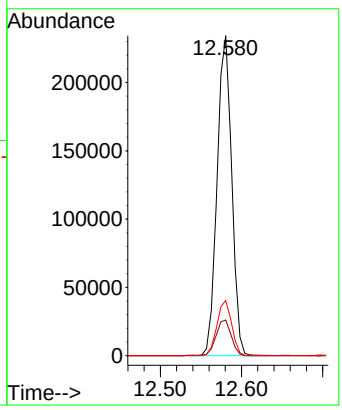


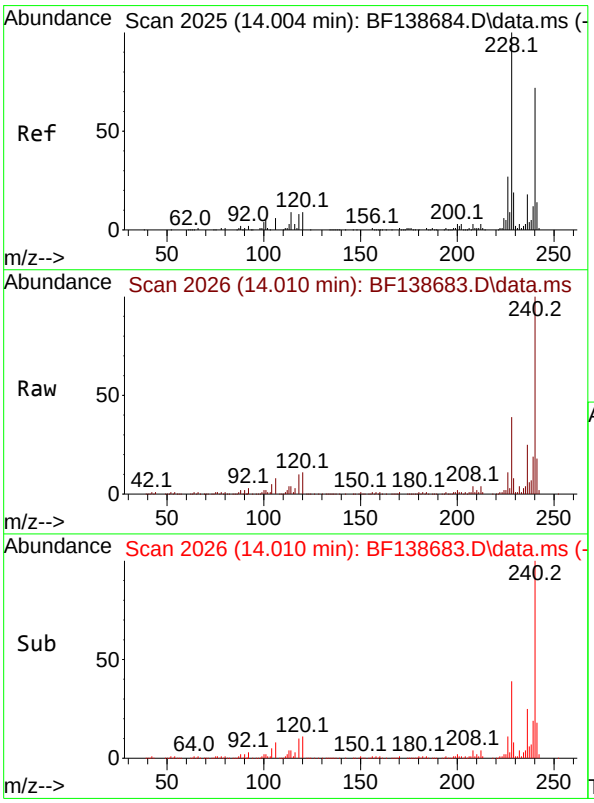

#75
Fluoranthene
Concen: 21.613 ng
RT: 12.580 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

Tgt Ion:202 Resp: 294039

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.1 | 0.0 | 31.2 |
| 203 | 17.3 | 0.0 | 37.3 |

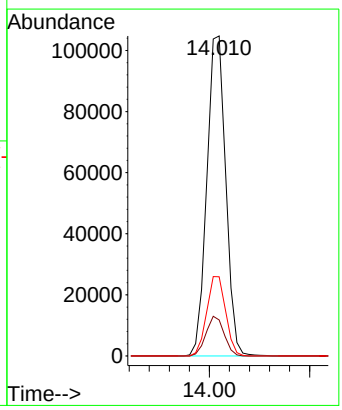


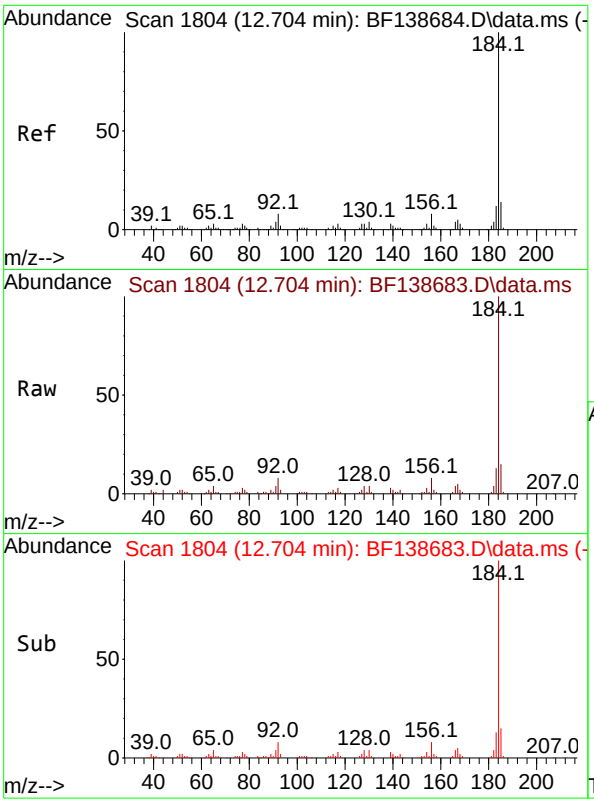




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.010 min Scan# 2026
Delta R.T. 0.006 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:240 Resp: 137400

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 11.3 | 10.2 | 15.4 |
| 236 | 24.7 | 19.8 | 29.8 |



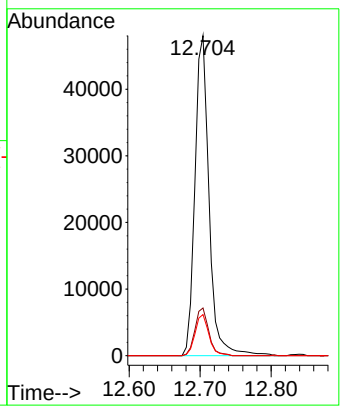


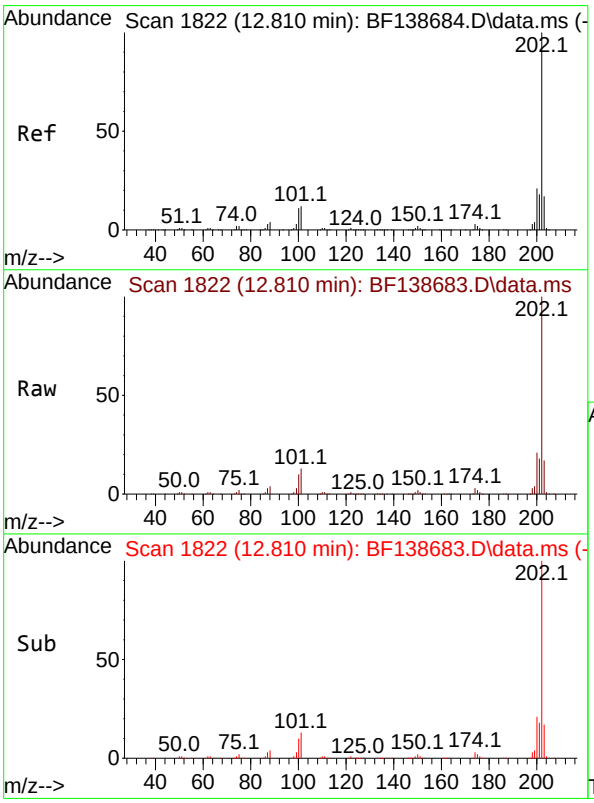

#77
Benzidine
Concen: 20.254 ng
RT: 12.704 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

Tgt Ion:184 Resp: 66561

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 185 | 14.9 | 11.1 | 16.7 |
| 183 | 12.9 | 9.6 | 14.4 |

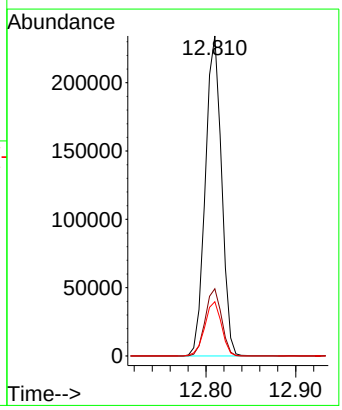


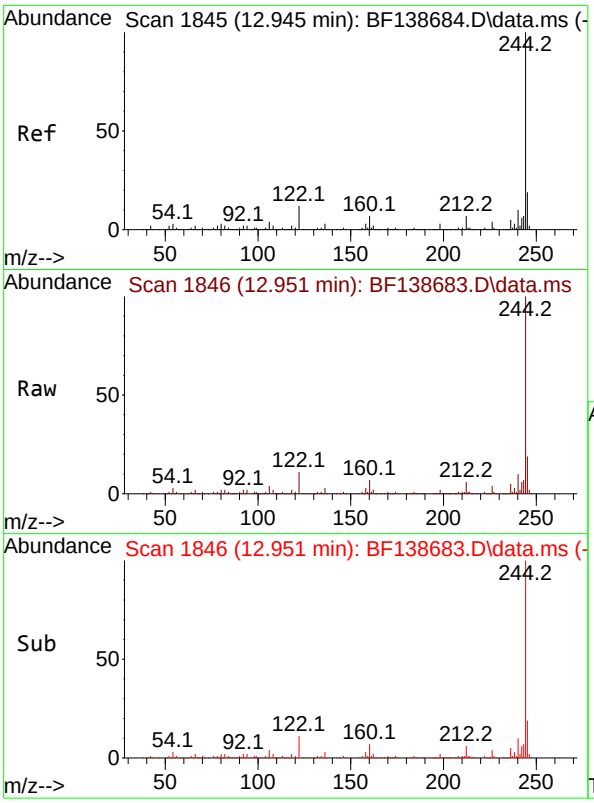




#78
Pyrene
Concen: 22.728 ng
RT: 12.810 min Scan# 1822
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:202 Resp: 294030

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.0 | 16.8 | 25.2 |
| 203 | 16.9 | 13.8 | 20.6 |



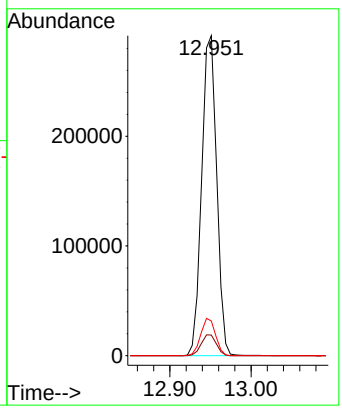


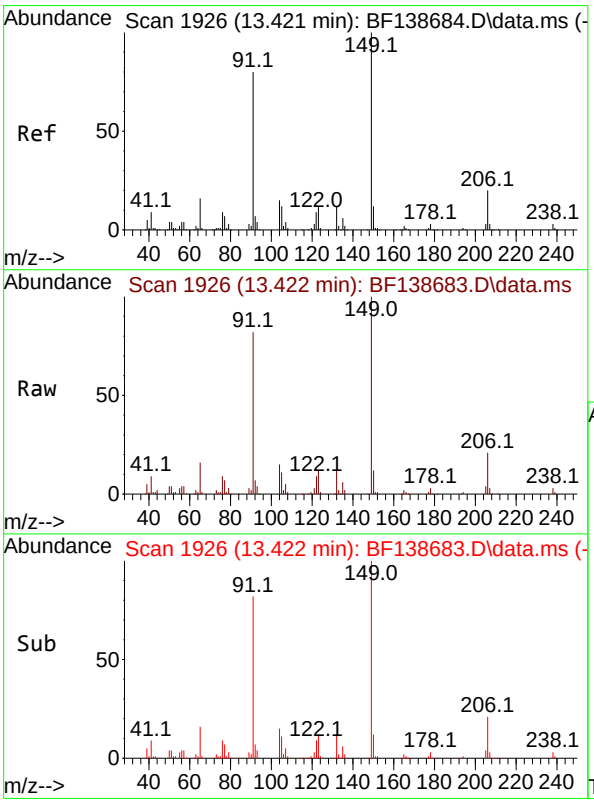

#79
Terphenyl-d14
Concen: 45.593 ng
RT: 12.951 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

Tgt Ion:244 Resp: 374162

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 6.5 | 5.4 | 8.2 |
| 122 | 10.8 | 9.6 | 14.4 |

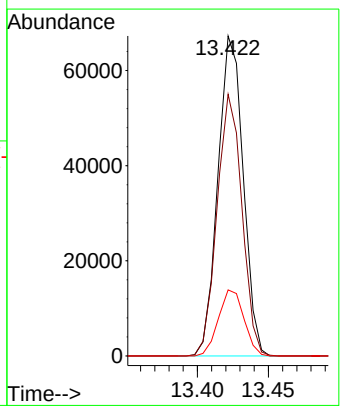


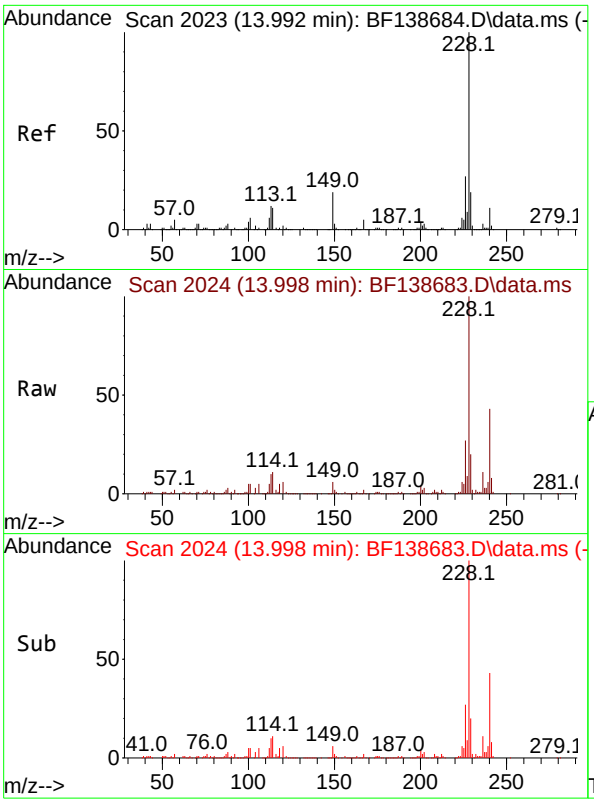




#80
Butylbenzylphthalate
Concen: 20.074 ng
RT: 13.422 min Scan# 1926
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:149 Resp: 83162

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 91 | 81.8 | 63.7 | 95.5 |
| 206 | 20.7 | 16.2 | 24.2 |



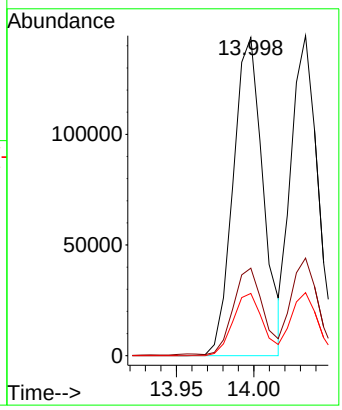


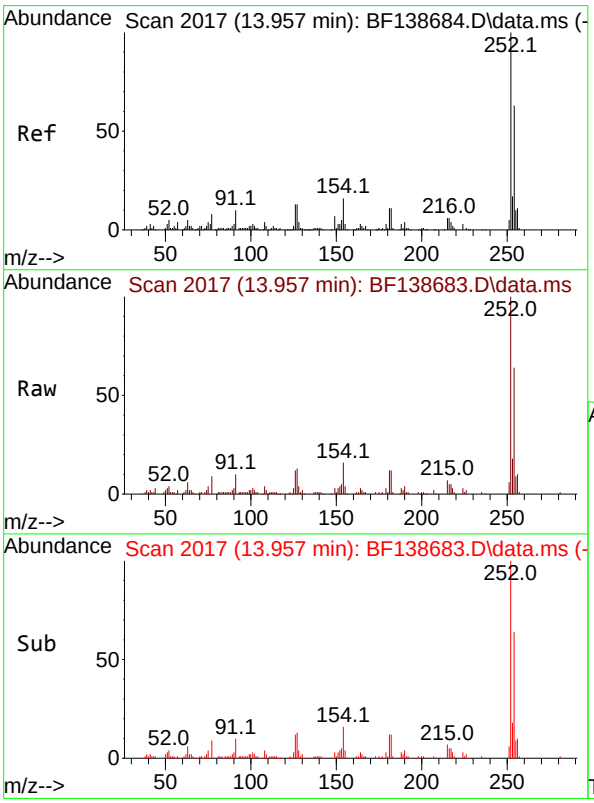

#81
Benzo(a)anthracene
Concen: 20.469 ng
RT: 13.998 min Scan# 2(
Delta R.T. 0.006 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

Tgt Ion:228 Resp: 193671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.5 | 22.1 | 33.1 |
| 229 | 19.5 | 15.4 | 23.0 |

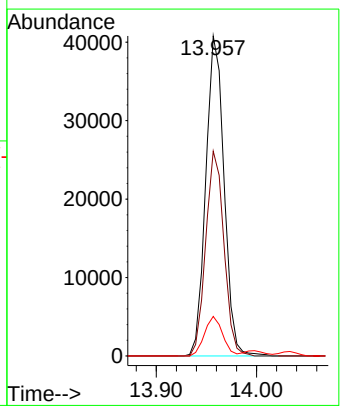


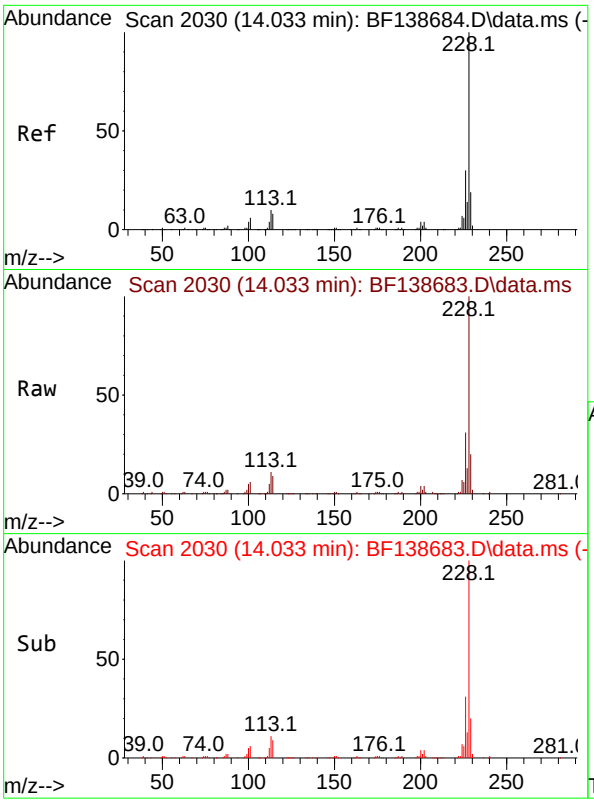




#82
3,3'-Dichlorobenzidine
Concen: 21.412 ng
RT: 13.957 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:252 Resp: 51844

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 64.0 | 50.8 | 76.2 |
| 126 | 12.4 | 10.2 | 15.2 |



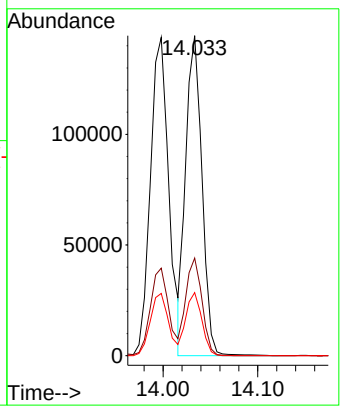


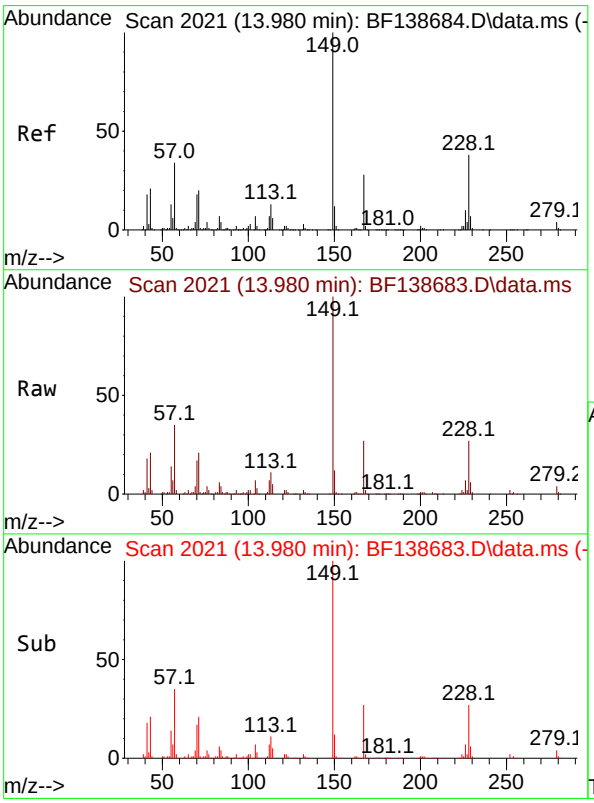

#83
Chrysene
Concen: 20.285 ng
RT: 14.033 min Scan# 2(
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

Tgt Ion:228 Resp: 173160

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.5 | 23.7 | 35.5 |
| 229 | 19.7 | 15.0 | 22.6 |

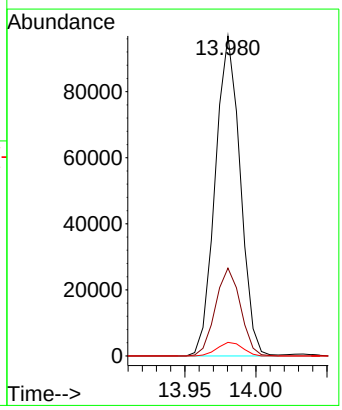


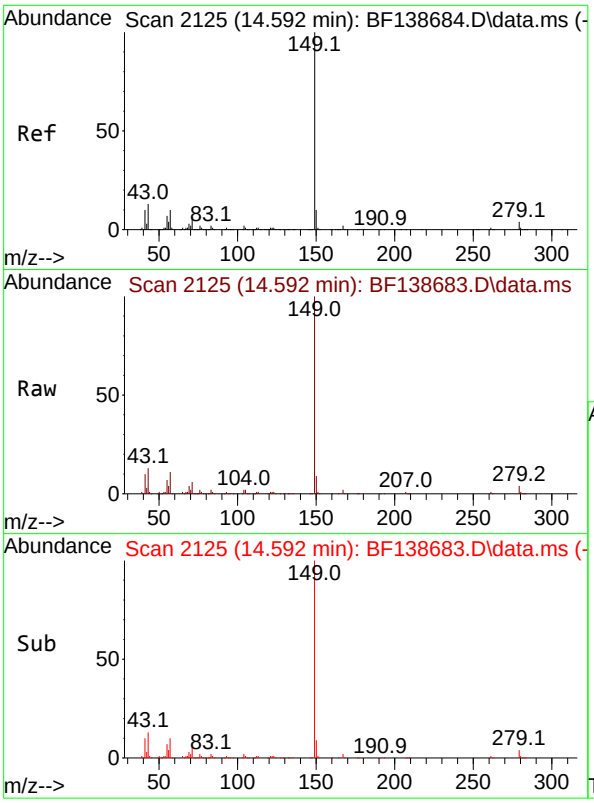




#84
Bis(2-ethylhexyl)phthalate
Concen: 19.500 ng
RT: 13.980 min Scan# 2021
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:149 Resp: 118293

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 27.5 | 22.2 | 33.4 |
| 279 | 4.3 | 3.4 | 5.0 |



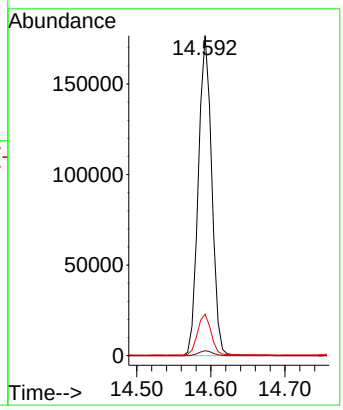


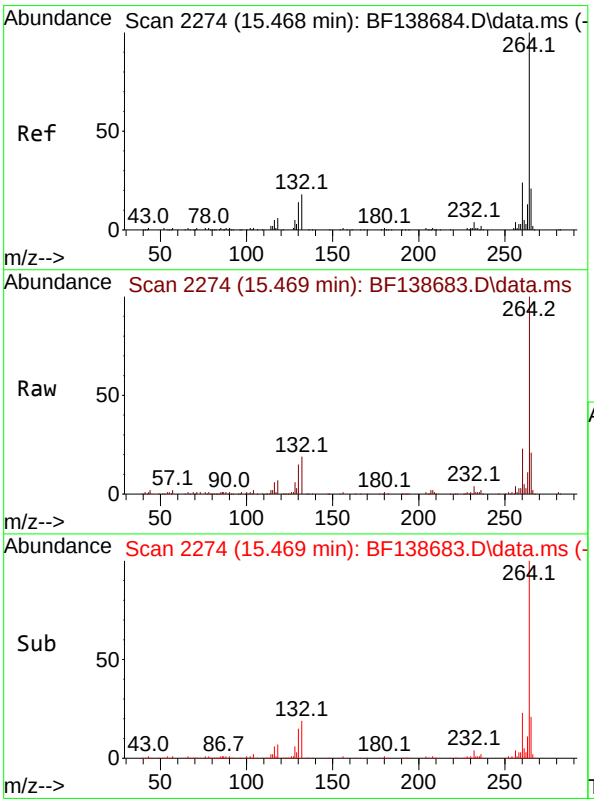

#85
Di-n-octyl phthalate
Concen: 19.758 ng
RT: 14.592 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

Tgt Ion:149 Resp: 221760

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 1.6 | 1.4 | 2.0 |
| 43 | 12.9 | 10.4 | 15.6 |

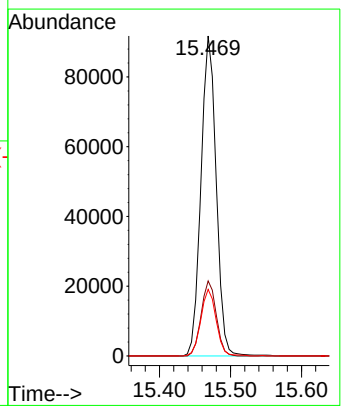


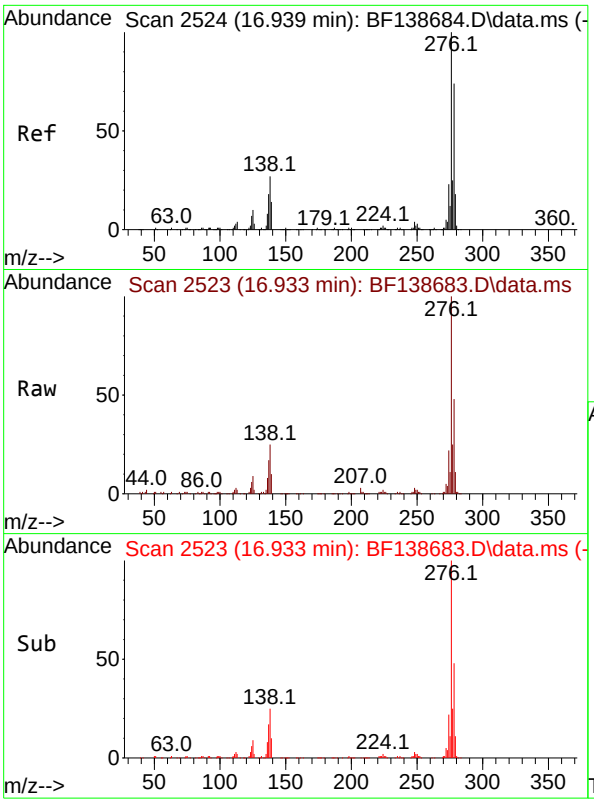




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.469 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:264 Resp: 137093

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.4 | 19.0 | 28.6 |
| 265 | 20.8 | 17.0 | 25.6 |



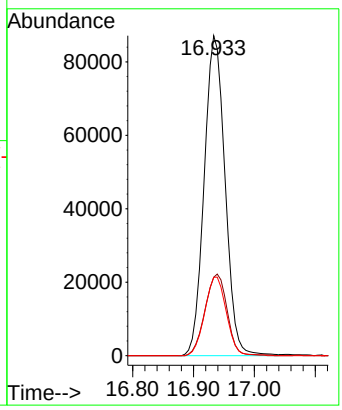


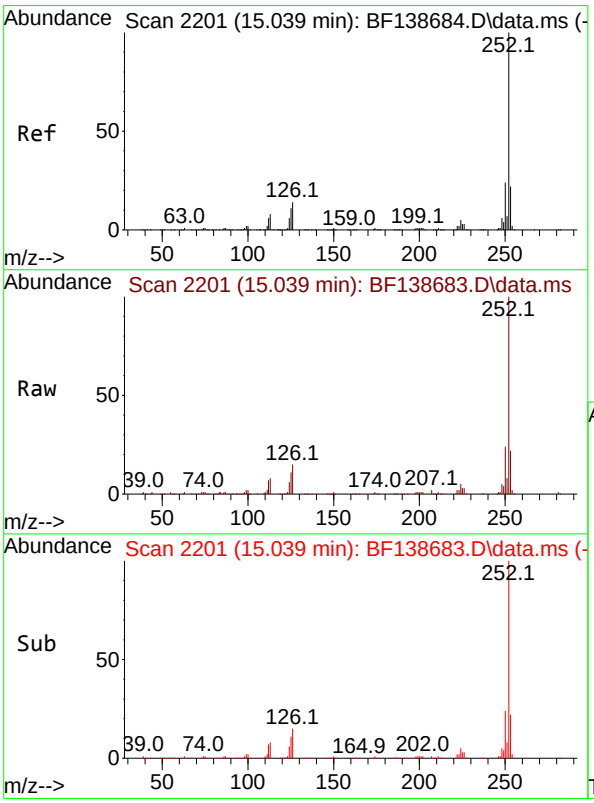

#87
Indeno(1,2,3-cd)pyrene
Concen: 21.168 ng
RT: 16.933 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

Tgt Ion:276 Resp: 207968

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 26.9 | 21.8 | 32.8 |
| 277 | 25.4 | 20.6 | 30.8 |

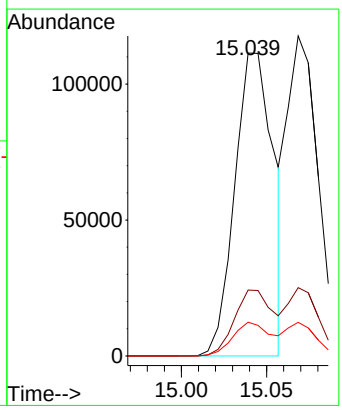


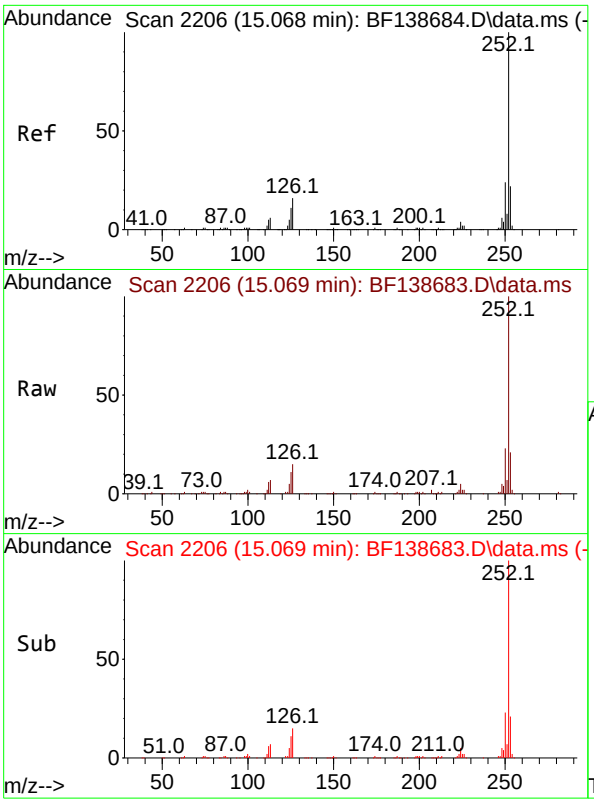




#88
Benzo(b)fluoranthene
Concen: 20.755 ng
RT: 15.039 min Scan# 2201
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:252 Resp: 176387

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.8 | 17.5 | 26.3 |
| 125 | 11.1 | 8.9 | 13.3 |



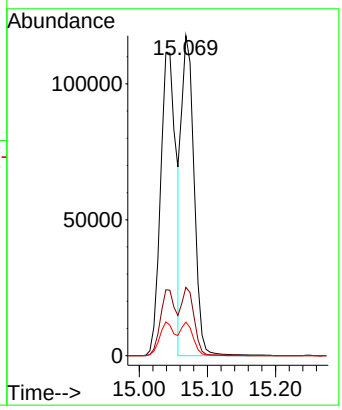


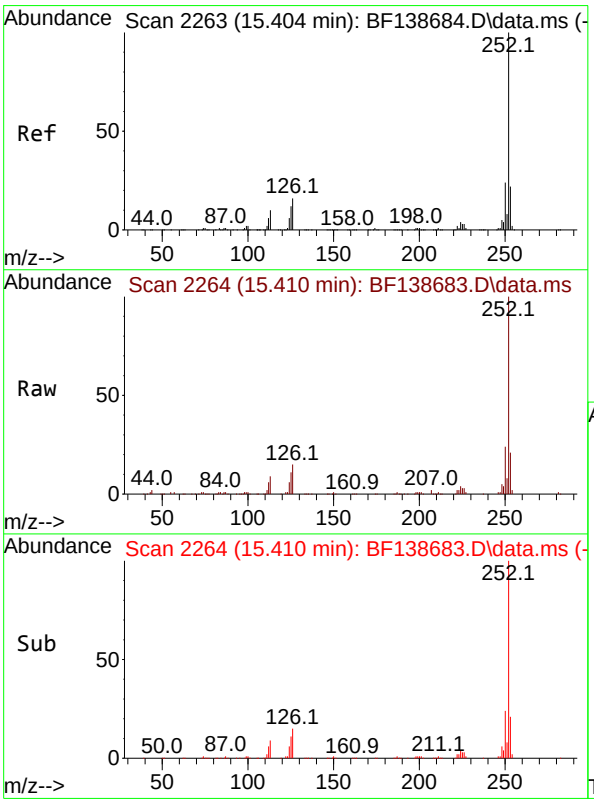

#89
Benzo(k)fluoranthene
Concen: 20.460 ng
RT: 15.069 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

Tgt Ion:252 Resp: 150547

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.3 | 17.4 | 26.0 |
| 125 | 10.5 | 8.6 | 13.0 |

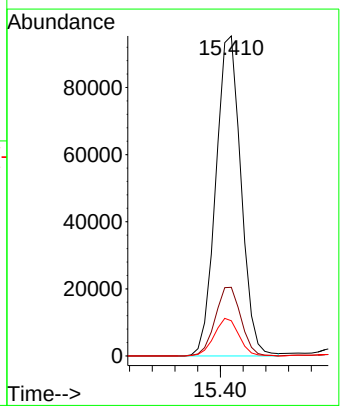


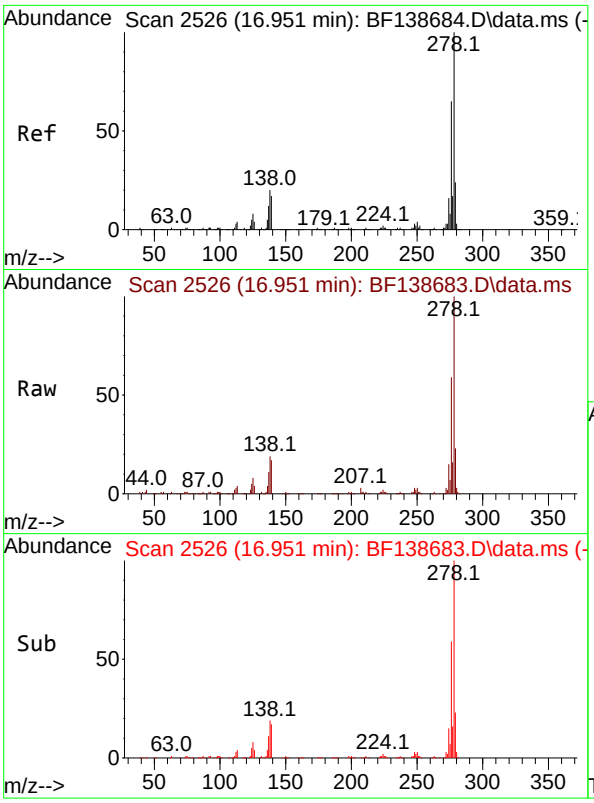




#90
Benzo(a)pyrene
Concen: 20.531 ng
RT: 15.410 min Scan# 2264
Delta R.T. 0.006 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:252 Resp: 146767

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.4 | 17.3 | 25.9 |
| 125 | 11.0 | 9.5 | 14.3 |



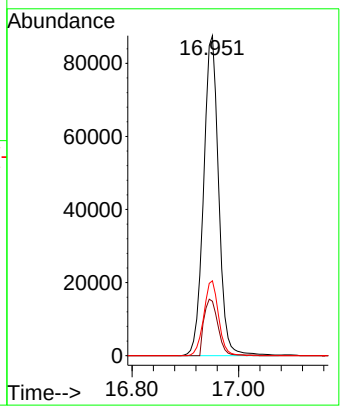


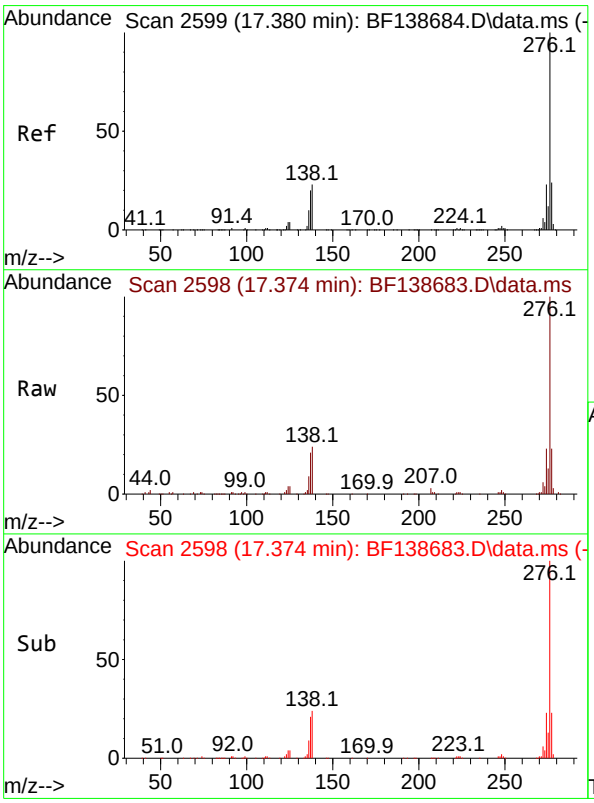

#91
Dibenzo(a,h)anthracene
Concen: 21.296 ng
RT: 16.951 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

Tgt Ion:278 Resp: 171745

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 17.0 | 14.0 | 21.0 |
| 279 | 23.4 | 19.0 | 28.4 |

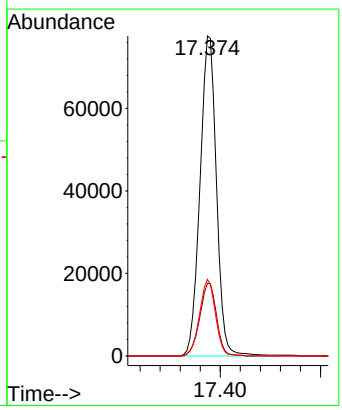



#92
Benzo(g,h,i)perylene
Concen: 21.110 ng
RT: 17.374 min Scan# 2598
Delta R.T. -0.006 min
Lab File: BF138683.D
Acq: 30 Jul 2024 14:25

Tgt Ion:276 Resp: 176662

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 22.7 | 19.0 | 28.4 |
| 138 | 24.0 | 18.5 | 27.7 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138684.D
Acq On : 30 Jul 2024 14:56
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

Quant Time: Jul 30 17:44:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:38:59 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.845 | 152 | 72528 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 8.128 | 136 | 281315 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 9.880 | 164 | 146962 | 20.000 | ng | 0.00 |
| 64) Phenanthrene-d10 | 11.369 | 188 | 227513 | 20.000 | ng | 0.00 |
| 76) Chrysene-d12 | 14.004 | 240 | 125928 | 20.000 | ng | 0.00 |
| 86) Perylene-d12 | 15.468 | 264 | 151531 | 20.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.469 | 112 | 369590 | 78.662 | ng | 0.00 |
| 7) Phenol-d6 | 6.487 | 99 | 487812 | 77.330 | ng | 0.00 |
| 23) Nitrobenzene-d5 | 7.410 | 82 | 457661 | 79.539 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.669 | 330 | 93462 | 77.638 | ng | 0.00 |
| 45) 2-Fluorobiphenyl | 9.204 | 172 | 767623 | 78.480 | ng | 0.00 |
| 79) Terphenyl-d14 | 12.945 | 244 | 556920 | 74.045 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.575 | 88 | 83483 | 40.585 | ng | 100 |
| 3) Pyridine | 3.334 | 79 | 200383 | 40.213 | ng | 100 |
| 4) n-Nitrosodimethylamine | 3.287 | 42 | 118122 | 39.802 | ng | 100 |
| 6) Aniline | 6.510 | 93 | 222231 | 39.503 | ng | 100 |
| 8) 2-Chlorophenol | 6.634 | 128 | 192242 | 38.889 | ng | 100 |
| 9) Benzaldehyde | 6.398 | 77 | 131168 | 34.687 | ng | 100 |
| 10) Phenol | 6.498 | 94 | 257462 | 38.764 | ng | 100 |
| 11) bis(2-Chloroethyl)ether | 6.587 | 93 | 197702 | 38.681 | ng | 100 |
| 12) 1,3-Dichlorobenzene | 6.787 | 146 | 213925 | 38.660 | ng | 100 |
| 13) 1,4-Dichlorobenzene | 6.863 | 146 | 217011 | 38.861 | ng | 100 |
| 14) 1,2-Dichlorobenzene | 7.016 | 146 | 204280 | 39.143 | ng | 100 |
| 15) Benzyl Alcohol | 6.992 | 79 | 176734 | 38.872 | ng | 100 |
| 16) 2,2'-oxybis(1-Chloropr... | 7.122 | 45 | 340905 | 38.757 | ng | 100 |
| 17) 2-Methylphenol | 7.104 | 107 | 160028 | 39.204 | ng | 100 |
| 18) Hexachloroethane | 7.357 | 117 | 82349 | 39.176 | ng | 100 |
| 19) n-Nitroso-di-n-propyla... | 7.257 | 70 | 143913 | 37.772 | ng | 100 |
| 20) 3+4-Methylphenols | 7.257 | 107 | 198296 | 37.862 | ng | 100 |
| 22) Acetophenone | 7.257 | 105 | 271238 | 39.378 | ng | 100 |
| 24) Nitrobenzene | 7.428 | 77 | 234435 | 40.040 | ng | 100 |
| 25) Isophorone | 7.669 | 82 | 382875 | 38.969 | ng | 100 |
| 26) 2-Nitrophenol | 7.745 | 139 | 103255 | 40.990 | ng | 100 |
| 27) 2,4-Dimethylphenol | 7.781 | 122 | 120225 | 39.890 | ng | 100 |
| 28) bis(2-Chloroethoxy)met... | 7.875 | 93 | 235424 | 39.348 | ng | 100 |
| 29) 2,4-Dichlorophenol | 7.992 | 162 | 155028 | 40.030 | ng | 100 |
| 30) 1,2,4-Trichlorobenzene | 8.069 | 180 | 178035 | 39.835 | ng | 100 |
| 31) Naphthalene | 8.151 | 128 | 587199 | 39.655 | ng | 100 |
| 32) Benzoic acid | 7.904 | 122 | 93278 | 39.389 | ng | 100 |
| 33) 4-Chloroaniline | 8.204 | 127 | 194499 | 39.130 | ng | 100 |
| 34) Hexachlorobutadiene | 8.263 | 225 | 106863 | 39.476 | ng | 100 |
| 35) Caprolactam | 8.569 | 113 | 43894 | 37.984 | ng | 100 |
| 36) 4-Chloro-3-methylphenol | 8.681 | 107 | 172540 | 38.983 | ng | 100 |
| 37) 2-Methylnaphthalene | 8.839 | 142 | 364899 | 39.019 | ng | 100 |
| 38) 1-Methylnaphthalene | 8.939 | 142 | 357806 | 39.045 | ng | 100 |
| 40) 1,2,4,5-Tetrachloroben... | 9.004 | 216 | 161777 | 39.628 | ng | 100 |
| 41) Hexachlorocyclopentadiene | 8.986 | 237 | 37306 | 38.484 | ng | 100 |
| 43) 2,4,6-Trichlorophenol | 9.116 | 196 | 98841 | 39.709 | ng | 100 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138684.D
Acq On : 30 Jul 2024 14:56
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

Quant Time: Jul 30 17:44:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:38:59 2024
Response via : Initial Calibration

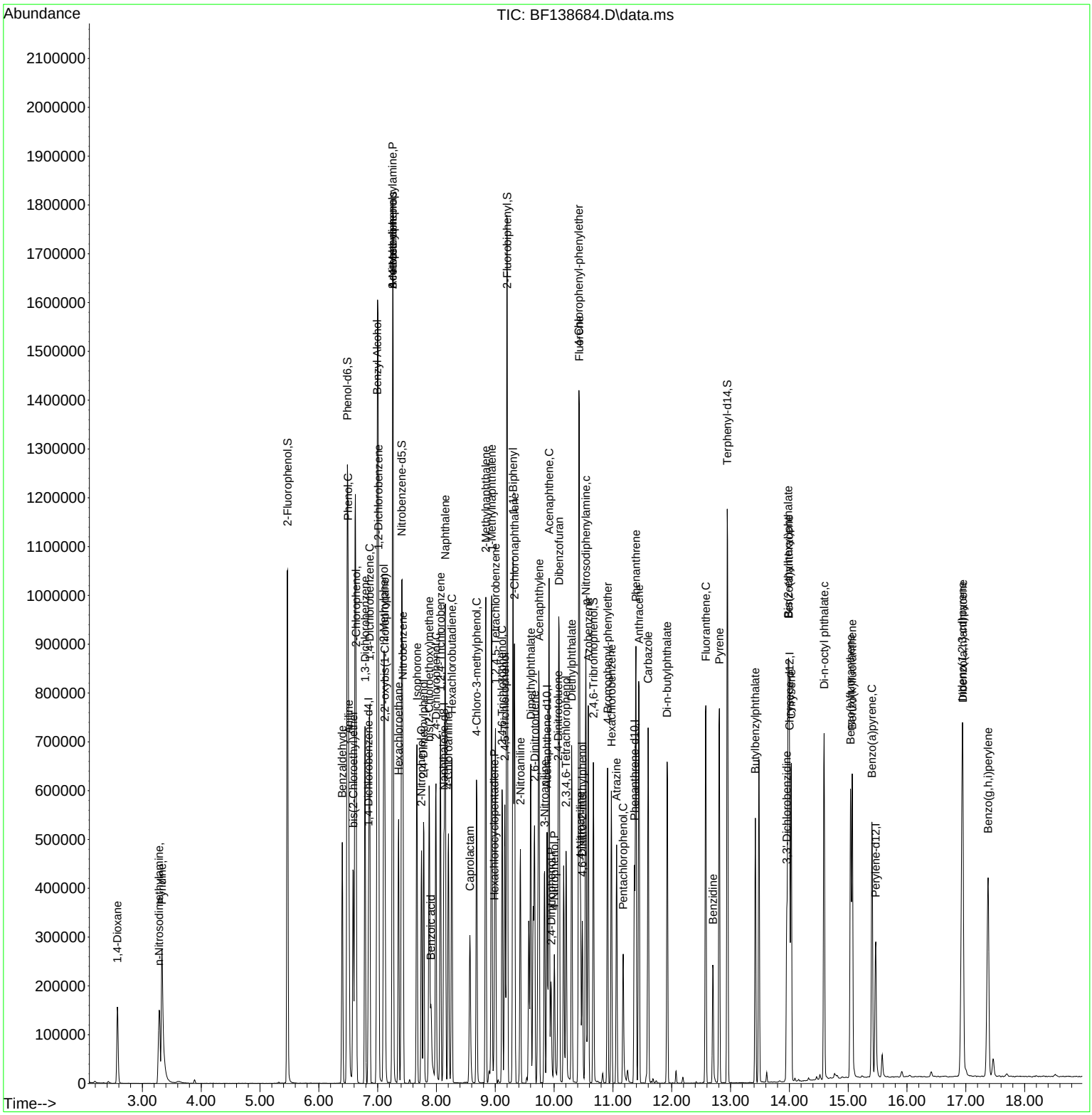
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 9.163 | 196 | 108268 | 39.788 | ng | 100 |
| 46) 1,1'-Biphenyl | 9.304 | 154 | 452377 | 39.303 | ng | 100 |
| 47) 2-Chloronaphthalene | 9.328 | 162 | 338303 | 39.520 | ng | 100 |
| 48) 2-Nitroaniline | 9.428 | 65 | 114390 | 39.417 | ng | 100 |
| 49) Acenaphthylene | 9.745 | 152 | 481180 | 39.633 | ng | 100 |
| 50) Dimethylphthalate | 9.604 | 163 | 361332 | 38.452 | ng | 100 |
| 51) 2,6-Dinitrotoluene | 9.669 | 165 | 84654 | 39.918 | ng | 100 |
| 52) Acenaphthene | 9.916 | 154 | 318001 | 38.964 | ng | 100 |
| 53) 3-Nitroaniline | 9.839 | 138 | 84697 | 38.633 | ng | 100 |
| 54) 2,4-Dinitrophenol | 9.951 | 184 | 37379 | 38.289 | ng | 100 |
| 55) Dibenzofuran | 10.086 | 168 | 445244 | 38.648 | ng | 100 |
| 56) 4-Nitrophenol | 10.004 | 139 | 51459 | 39.032 | ng | 100 |
| 57) 2,4-Dinitrotoluene | 10.069 | 165 | 106444 | 39.341 | ng | 100 |
| 58) Fluorene | 10.428 | 166 | 354441 | 38.634 | ng | 100 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.204 | 232 | 80452 | 38.673 | ng | 100 |
| 60) Diethylphthalate | 10.298 | 149 | 339596 | 38.114 | ng | 100 |
| 61) 4-Chlorophenyl-phenyle... | 10.422 | 204 | 173020 | 38.346 | ng | 100 |
| 62) 4-Nitroaniline | 10.451 | 138 | 79919 | 38.360 | ng | 100 |
| 63) Azobenzene | 10.580 | 77 | 382056 | 38.662 | ng | 100 |
| 65) 4,6-Dinitro-2-methylph... | 10.480 | 198 | 56704 | 40.852 | ng | 100 |
| 66) n-Nitrosodiphenylamine | 10.539 | 169 | 287289 | 40.397 | ng | 100 |
| 67) 4-Bromophenyl-phenylether | 10.910 | 248 | 98606 | 40.031 | ng | 100 |
| 68) Hexachlorobenzene | 10.975 | 284 | 100089 | 39.354 | ng | 100 |
| 69) Atrazine | 11.063 | 200 | 73933 | 40.295 | ng | 100 |
| 70) Pentachlorophenol | 11.175 | 266 | 46467 | 40.533 | ng | 100 |
| 71) Phenanthrene | 11.392 | 178 | 464600 | 39.658 | ng | 100 |
| 72) Anthracene | 11.445 | 178 | 456164 | 39.526 | ng | 100 |
| 73) Carbazole | 11.598 | 167 | 395675 | 39.739 | ng | 100 |
| 74) Di-n-butylphthalate | 11.922 | 149 | 451011 | 40.293 | ng | 100 |
| 75) Fluoranthene | 12.580 | 202 | 439041 | 40.144 | ng | 100 |
| 77) Benzidine | 12.704 | 184 | 134710 | 44.725 | ng | 100 |
| 78) Pyrene | 12.810 | 202 | 440674 | 37.167 | ng | 100 |
| 80) Butylbenzylphthalate | 13.421 | 149 | 158088 | 41.637 | ng | 100 |
| 81) Benzo(a)anthracene | 13.992 | 228 | 351448 | 40.528 | ng | 100 |
| 82) 3,3'-Dichlorobenzidine | 13.957 | 252 | 90595 | 40.825 | ng | 100 |
| 83) Chrysene | 14.033 | 228 | 307799 | 39.343 | ng | 100 |
| 84) Bis(2-ethylhexyl)phtha... | 13.980 | 149 | 238798 | 42.951 | ng | 100 |
| 85) Di-n-octyl phthalate | 14.592 | 149 | 439133 | 42.690 | ng | 100 |
| 87) Indeno(1,2,3-cd)pyrene | 16.939 | 276 | 422742 | 38.929 | ng | 100 |
| 88) Benzo(b)fluoranthene | 15.039 | 252 | 372478 | 39.653 | ng | 100 |
| 89) Benzo(k)fluoranthene | 15.068 | 252 | 303576 | 37.326 | ng | 100 |
| 90) Benzo(a)pyrene | 15.404 | 252 | 309949 | 39.228 | ng | 100 |
| 91) Dibenzo(a,h)anthracene | 16.951 | 278 | 343548 | 38.540 | ng | 100 |
| 92) Benzo(g,h,i)perylene | 17.380 | 276 | 363283 | 39.273 | ng | 100 |

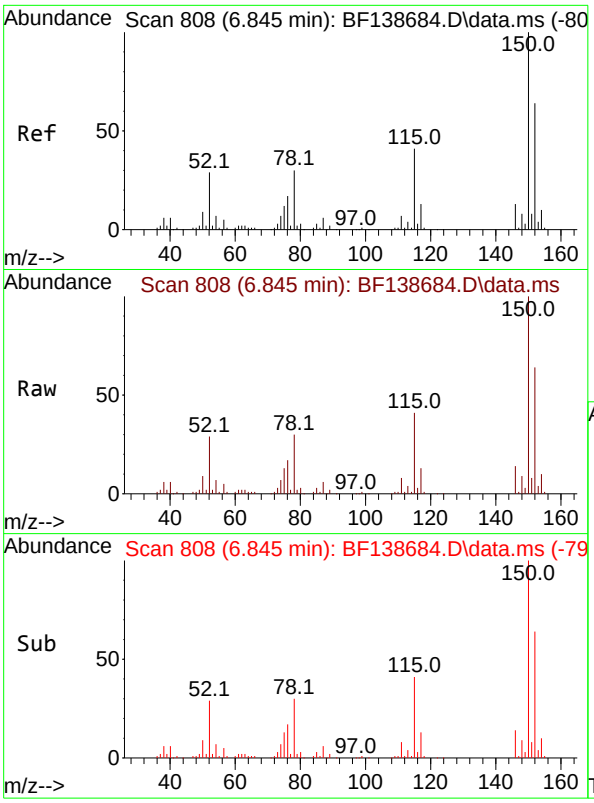
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138684.D
Acq On : 30 Jul 2024 14:56
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

Quant Time: Jul 30 17:44:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:38:59 2024
Response via : Initial Calibration



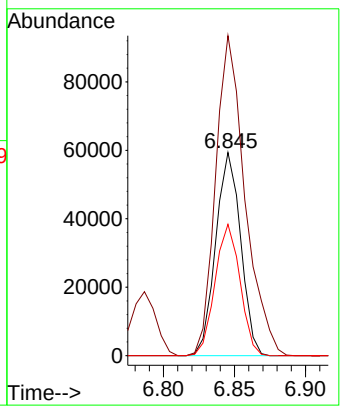


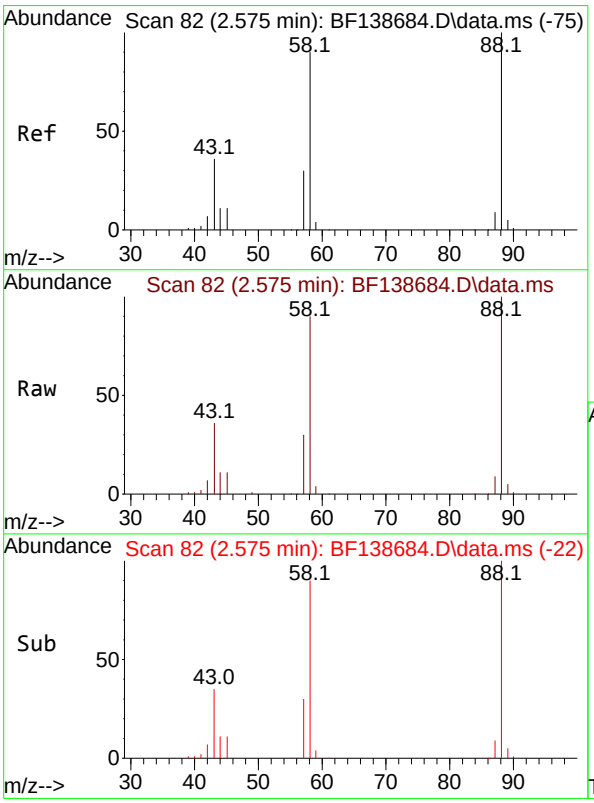

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.845 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

Tgt Ion:152 Resp: 72528

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 157.5 | 126.0 | 189.0 |
| 115 | 64.6 | 51.7 | 77.5 |

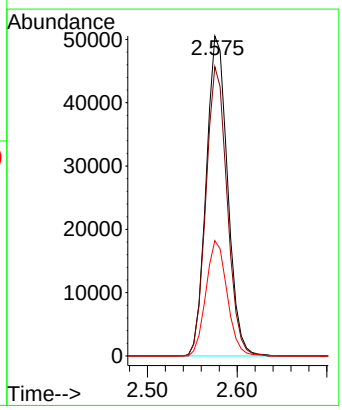


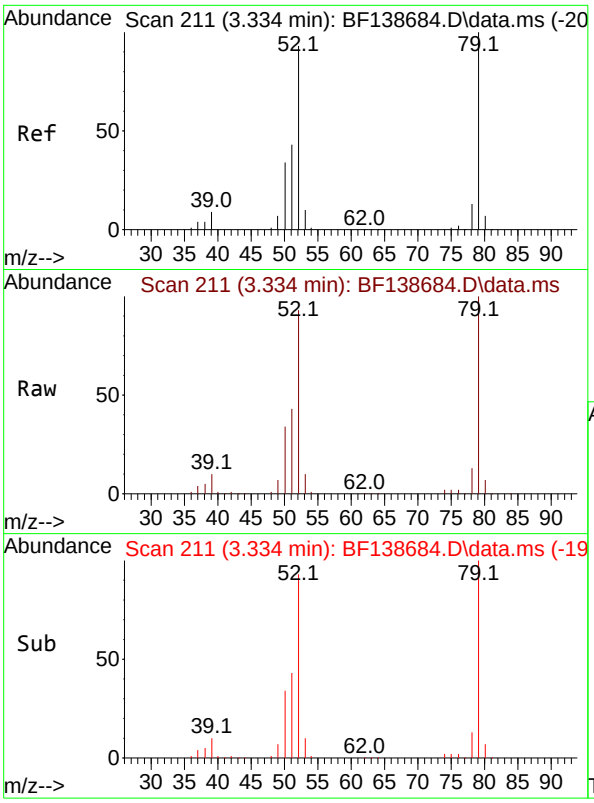




#2
1,4-Dioxane
Concen: 40.585 ng
RT: 2.575 min Scan# 82
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion: 88 Resp: 83483

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 89.5 | 71.6 | 107.4 |
| 43 | 35.9 | 28.7 | 43.1 |



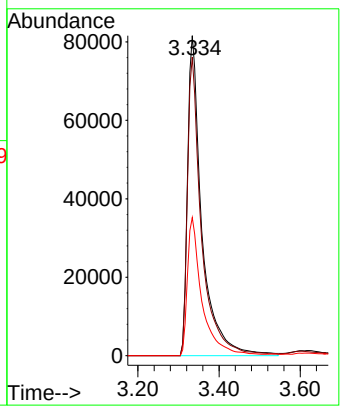


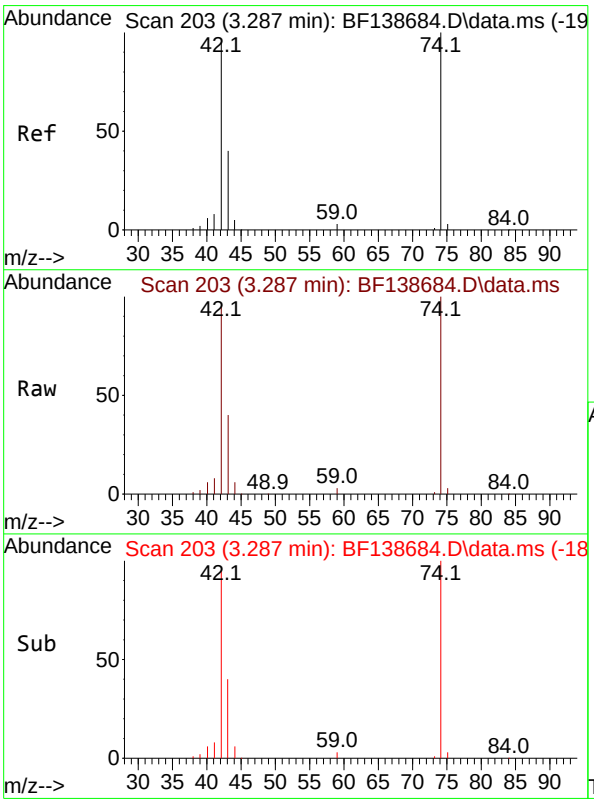

#3
Pyridine
Concen: 40.213 ng
RT: 3.334 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

Tgt Ion: 79 Resp: 200383

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 93.4 | 74.7 | 112.1 |
| 51 | 43.2 | 34.6 | 51.8 |

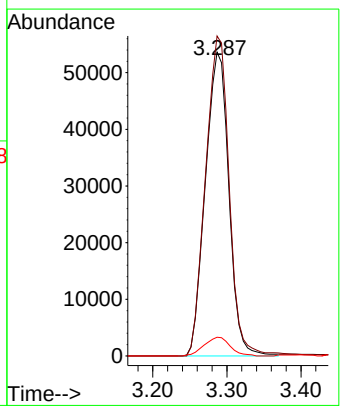


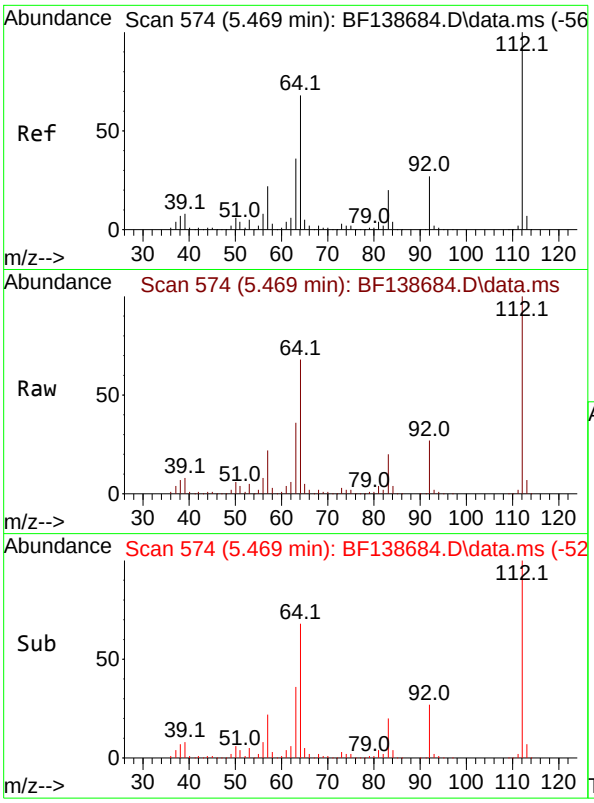




#4
n-Nitrosodimethylamine
Concen: 39.802 ng
RT: 3.287 min Scan# 203
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion: 42 Resp: 118122

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 105.3 | 84.2 | 126.4 |
| 44 | 6.1 | 4.9 | 7.3 |



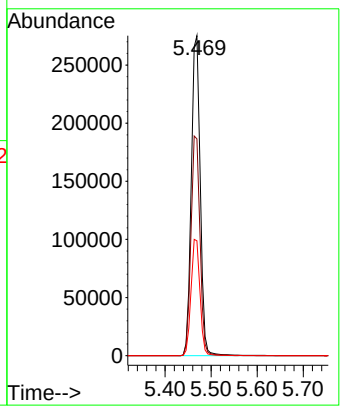


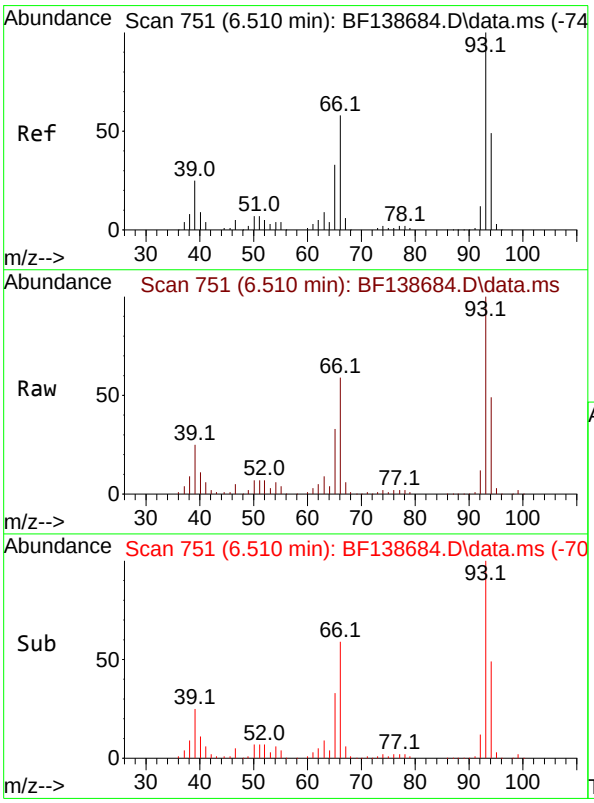

#5
2-Fluorophenol
Concen: 78.662 ng
RT: 5.469 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

Tgt Ion:112 Resp: 369590

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 67.8 | 54.2 | 81.4 |
| 63 | 35.9 | 28.7 | 43.1 |

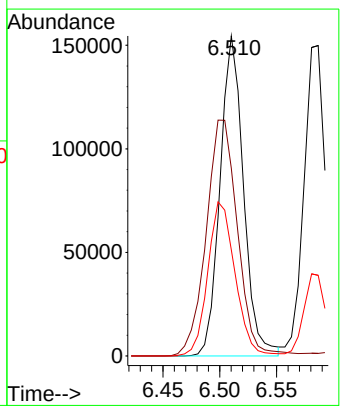


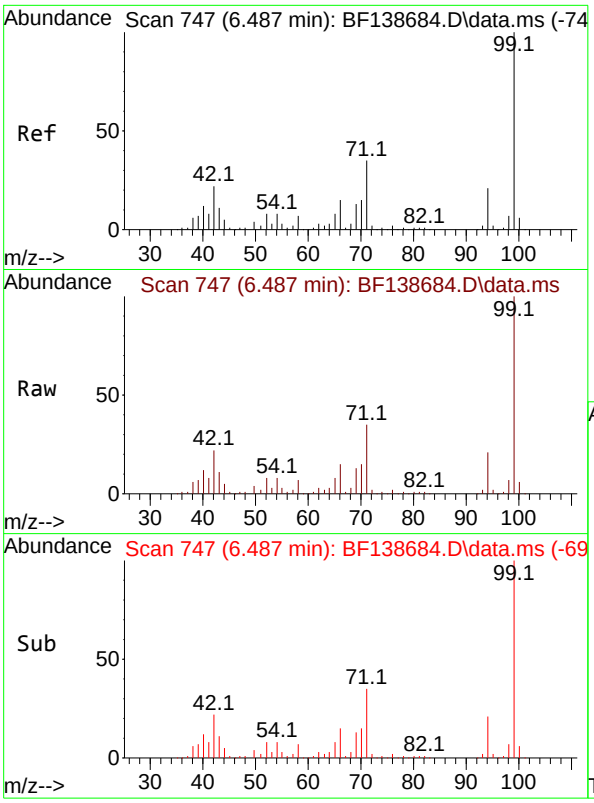




#6
Aniline
Concen: 39.503 ng
RT: 6.510 min Scan# 751
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion: 93 Resp: 222231

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 66 | 58.6 | 46.9 | 70.3 |
| 65 | 33.1 | 26.5 | 39.7 |



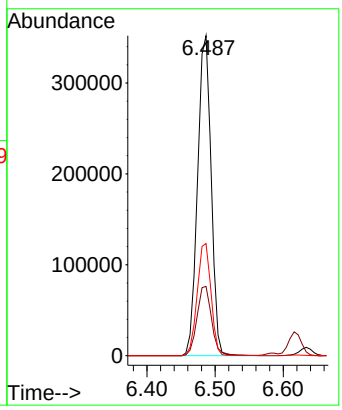


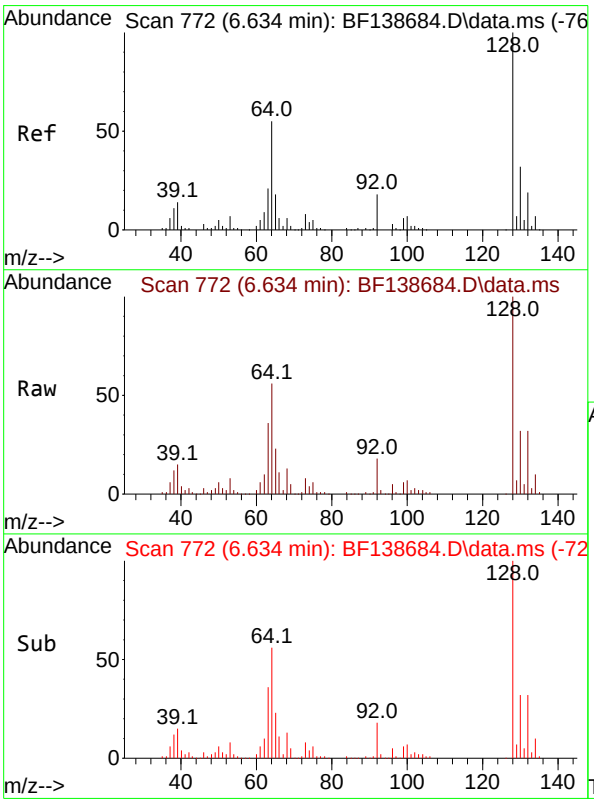

#7
Phenol-d6
Concen: 77.330 ng
RT: 6.487 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

Tgt Ion: 99 Resp: 487812

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 21.7 | 17.4 | 26.0 |
| 71 | 35.1 | 28.1 | 42.1 |

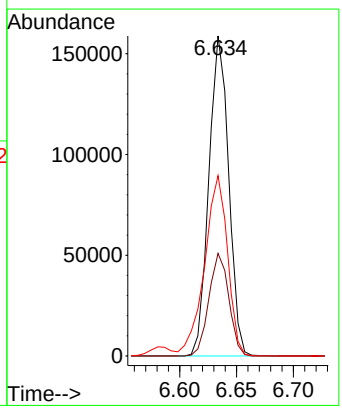


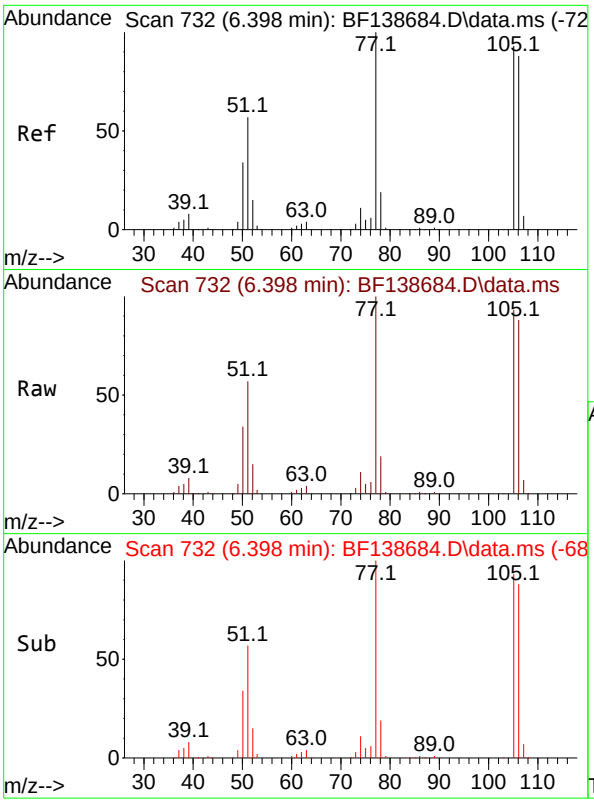




#8
2-Chlorophenol
Concen: 38.889 ng
RT: 6.634 min Scan# 772
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:128 Resp: 192242

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 130 | 32.0 | 12.0 | 52.0 |
| 64 | 56.3 | 36.3 | 76.3 |



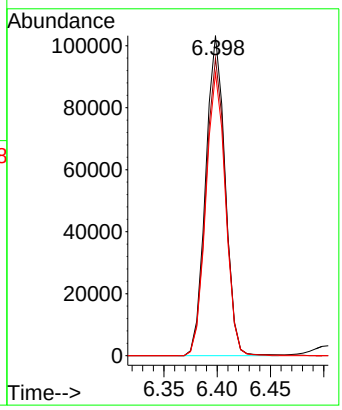


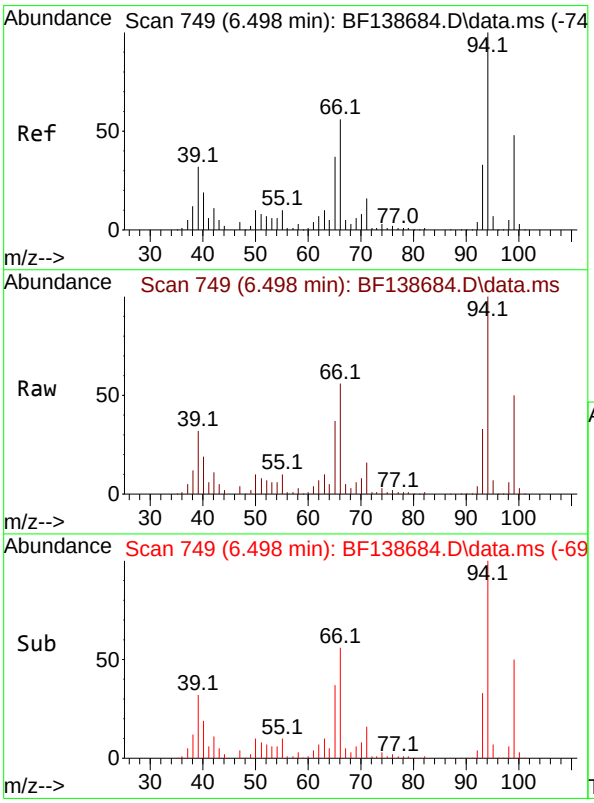

#9
Benzaldehyde
Concen: 34.687 ng
RT: 6.398 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

Tgt Ion: 77 Resp: 131168

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 105 | 92.9 | 72.9 | 112.9 |
| 106 | 88.4 | 68.4 | 108.4 |

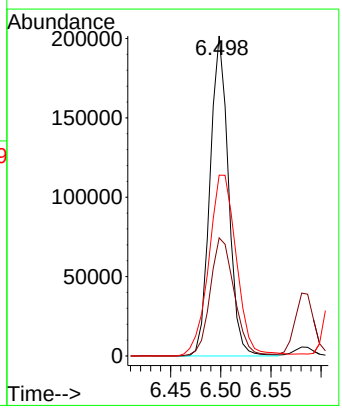


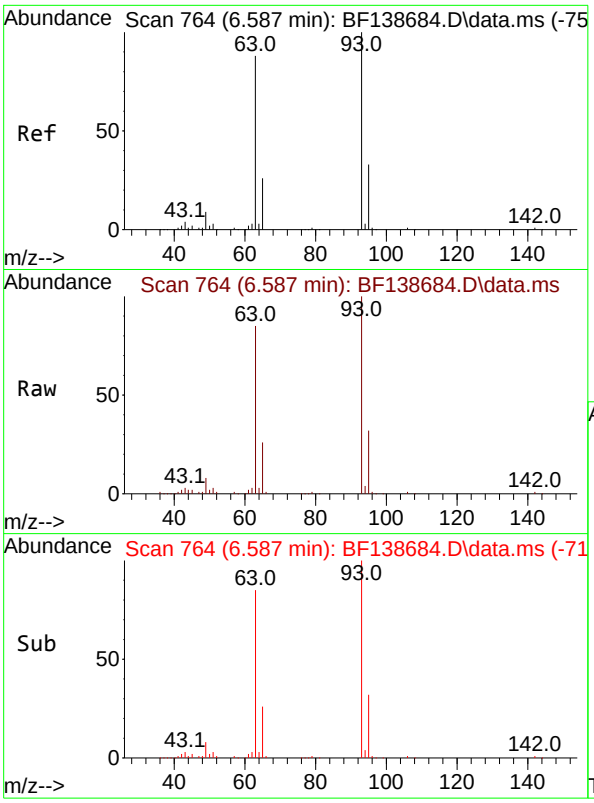




#10
Phenol
Concen: 38.764 ng
RT: 6.498 min Scan# 749
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion: 94 Resp: 257462

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 36.9 | 16.9 | 56.9 |
| 66 | 56.5 | 36.5 | 76.5 |



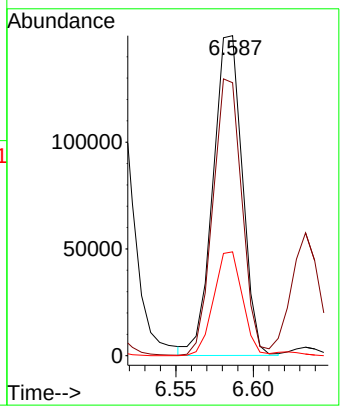


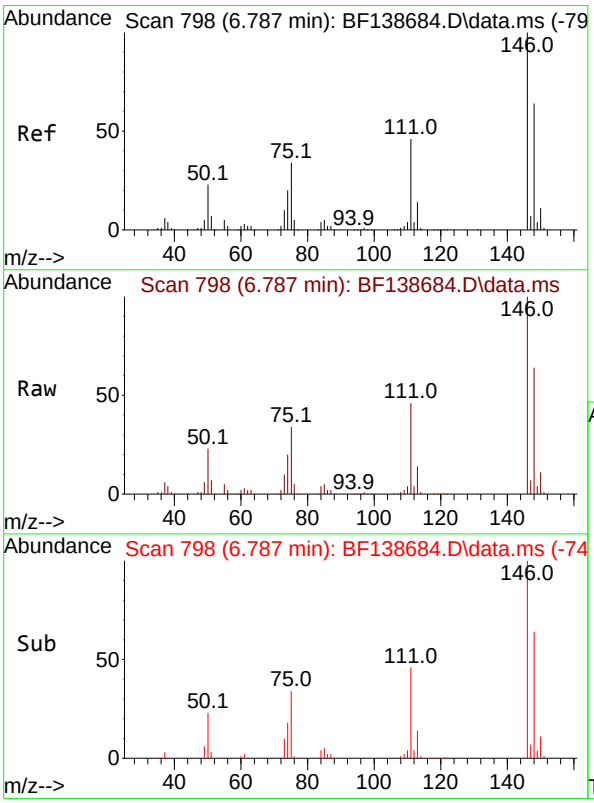

#11
bis(2-Chloroethyl)ether
Concen: 38.681 ng
RT: 6.587 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

Tgt Ion: 93 Resp: 197702

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 85.3 | 65.3 | 105.3 |
| 95 | 32.4 | 12.4 | 52.4 |

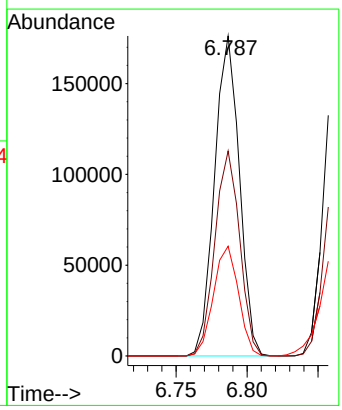


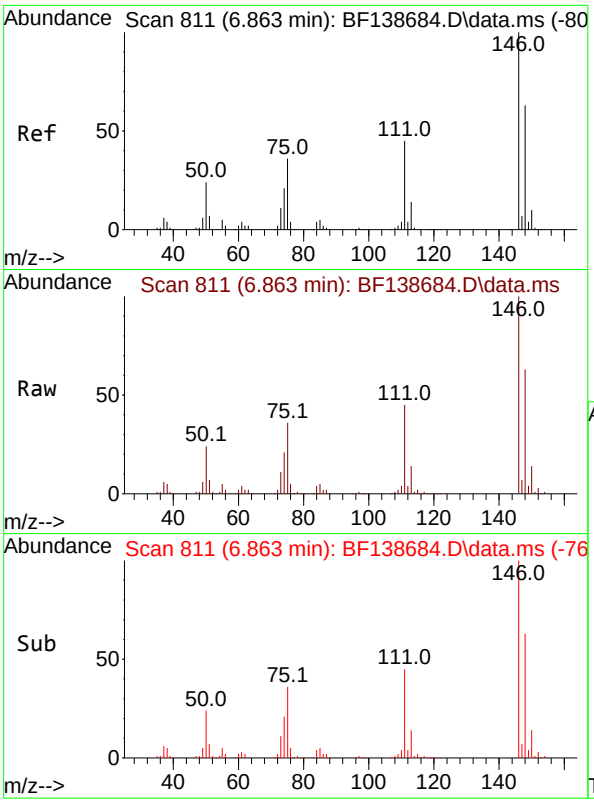




#12
1,3-Dichlorobenzene
Concen: 38.660 ng
RT: 6.787 min Scan# 798
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:146 Resp: 213925

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 64.0 | 51.2 | 76.8 |
| 75 | 34.3 | 27.4 | 41.2 |



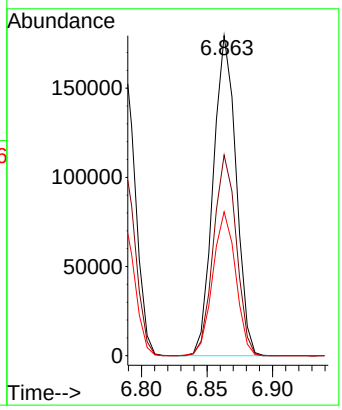


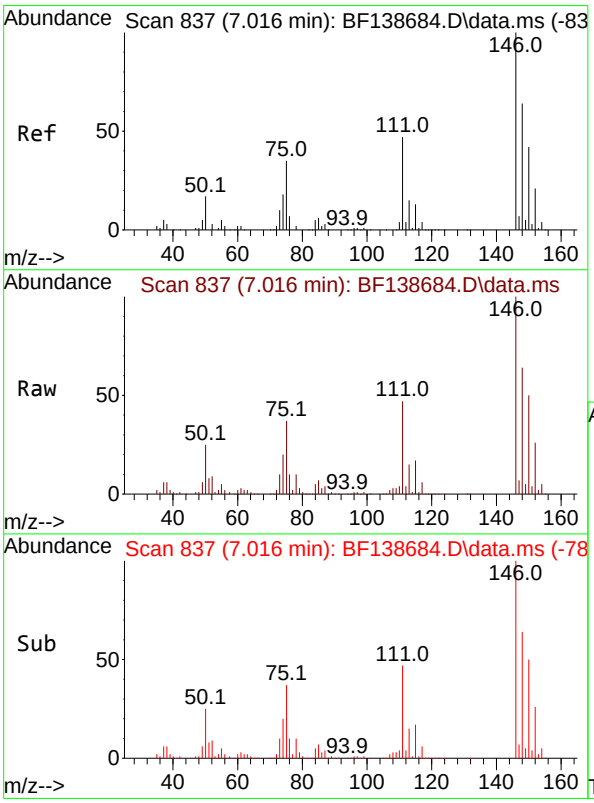

#13
1,4-Dichlorobenzene
Concen: 38.861 ng
RT: 6.863 min Scan# 81
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

Tgt Ion:146 Resp: 217011

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 62.7 | 50.2 | 75.2 |
| 111 | 44.9 | 35.9 | 53.9 |

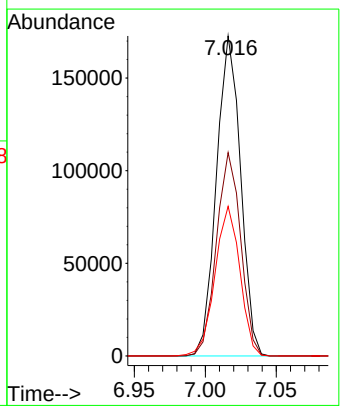


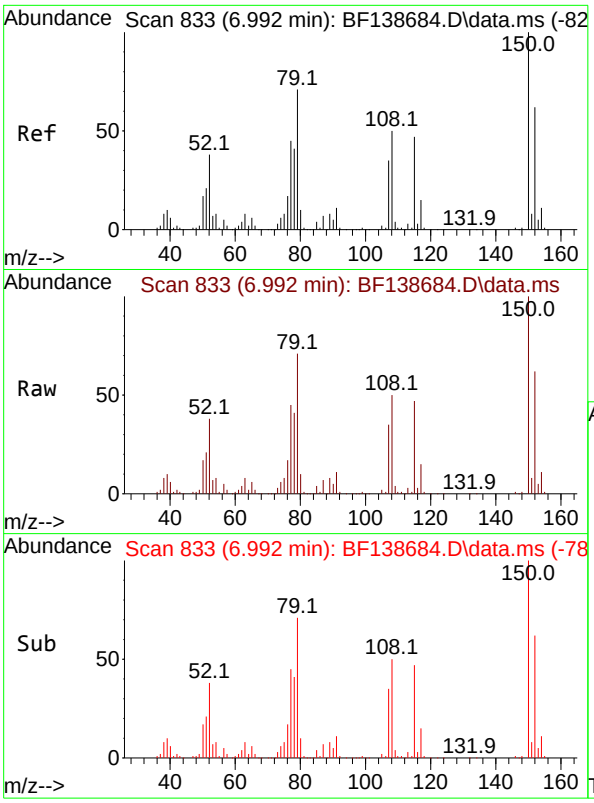




#14
1,2-Dichlorobenzene
Concen: 39.143 ng
RT: 7.016 min Scan# 837
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:146 Resp: 204280

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 63.5 | 50.8 | 76.2 |
| 111 | 46.8 | 37.4 | 56.2 |



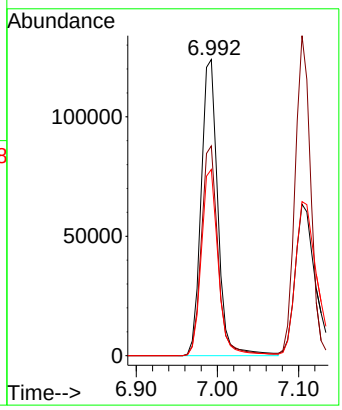


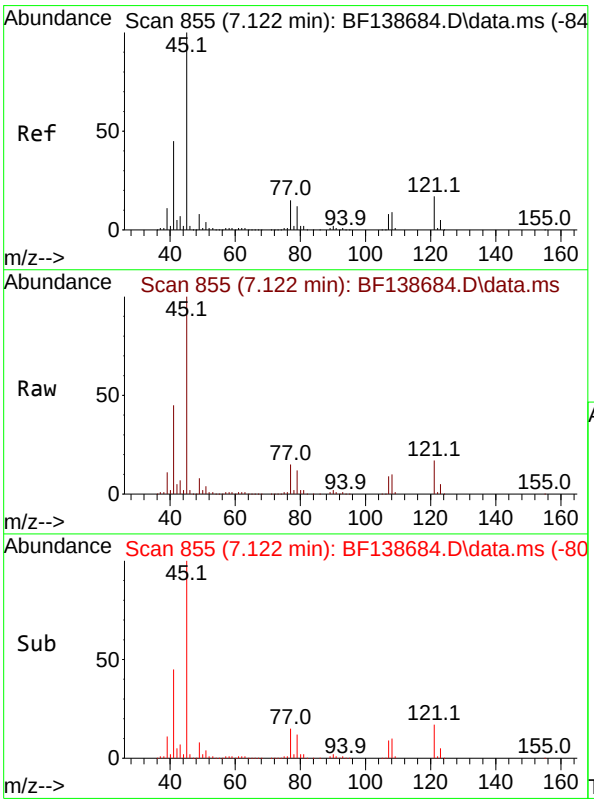

#15
Benzyl Alcohol
Concen: 38.872 ng
RT: 6.992 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

Tgt Ion: 79 Resp: 176734

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 108 | 70.8 | 56.6 | 85.0 |
| 77 | 62.9 | 50.3 | 75.5 |

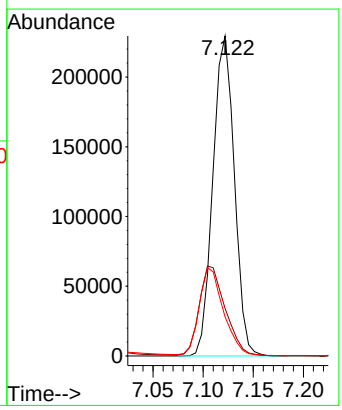


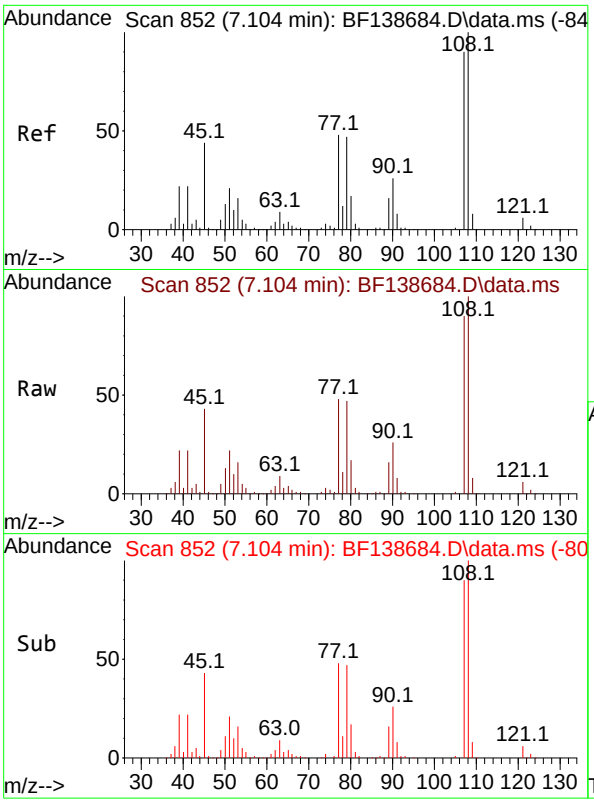




#16
2,2'-oxybis(1-Chloropropane)
Concen: 38.757 ng
RT: 7.122 min Scan# 855
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion: 45 Resp: 340905

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 77 | 14.9 | 0.0 | 34.9 |
| 79 | 12.2 | 0.0 | 32.2 |



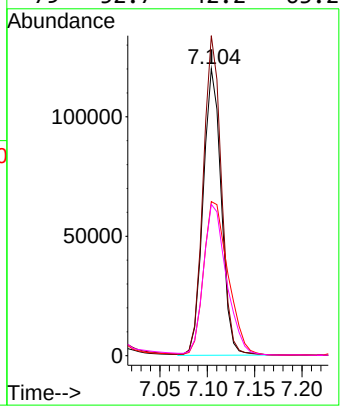


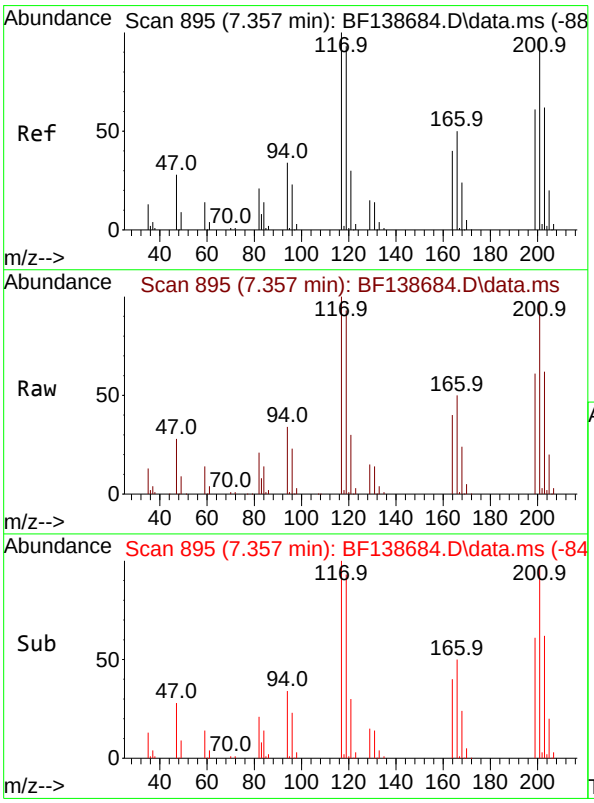

#17
2-Methylphenol
Concen: 39.204 ng
RT: 7.104 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

Tgt Ion:107 Resp: 160028

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 111.5 | 89.2 | 133.8 |
| 77 | 53.7 | 43.0 | 64.4 |
| 79 | 52.7 | 42.2 | 63.2 |

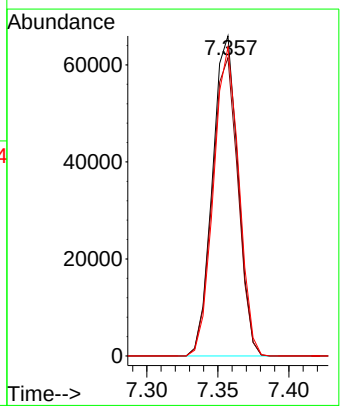


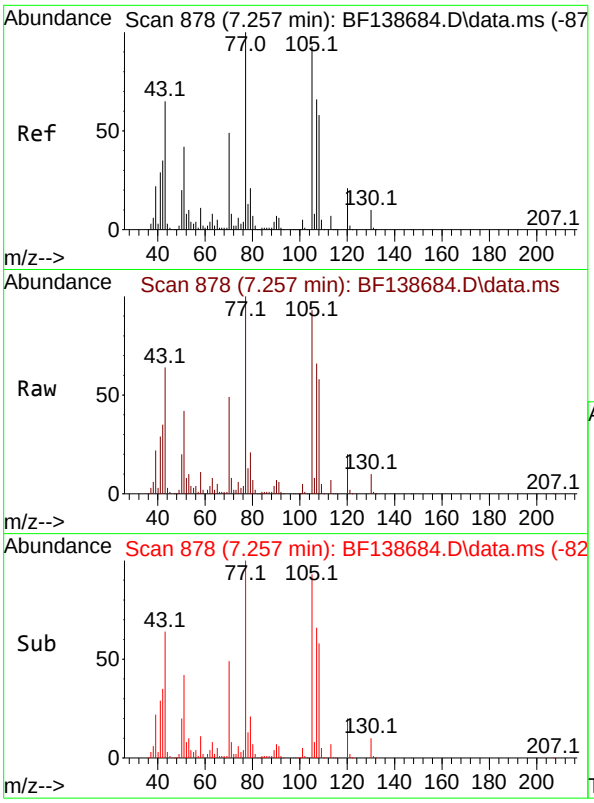




#18
Hexachloroethane
Concen: 39.176 ng
RT: 7.357 min Scan# 895
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:117 Resp: 82349

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 93.2 | 74.6 | 111.8 |
| 201 | 96.5 | 77.2 | 115.8 |



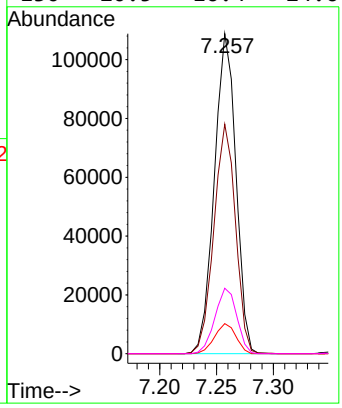


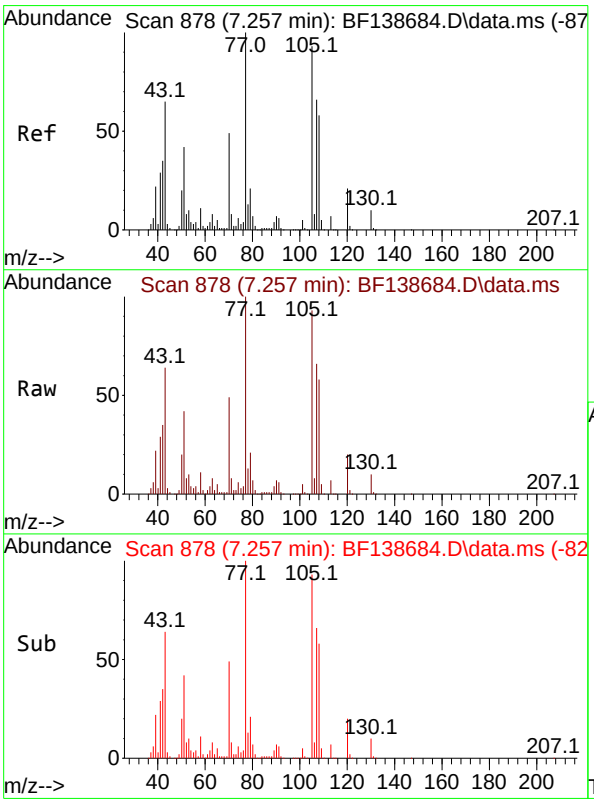

#19
n-Nitroso-di-n-propylamine
Concen: 37.772 ng
RT: 7.257 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

Tgt Ion: 70 Resp: 143913

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 42 | 71.7 | 57.4 | 86.0 |
| 101 | 9.4 | 7.5 | 11.3 |
| 130 | 20.5 | 16.4 | 24.6 |

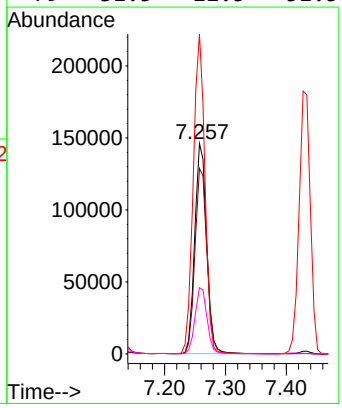


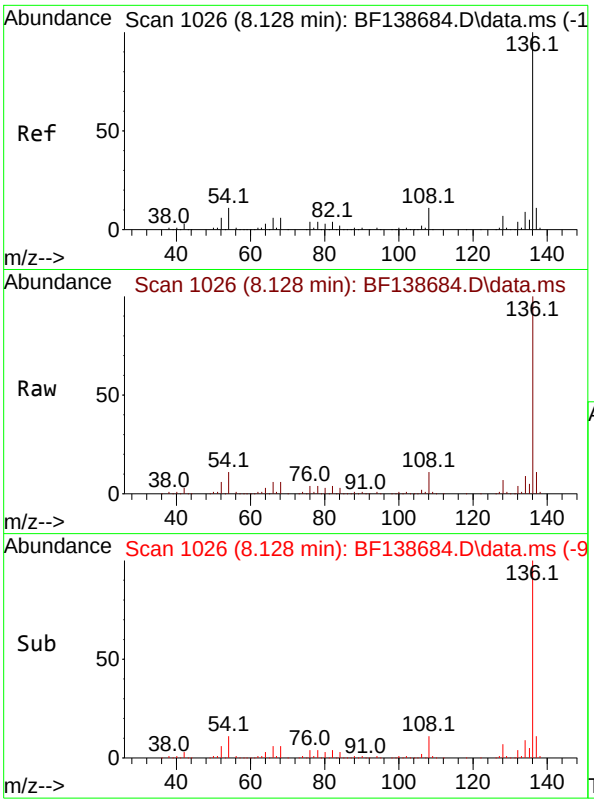




#20
3+4-Methylphenols
Concen: 37.862 ng
RT: 7.257 min Scan# 878
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:107 Resp: 198296

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 88.2 | 68.2 | 108.2 |
| 77 | 152.1 | 132.1 | 172.1 |
| 79 | 31.5 | 11.5 | 51.5 |



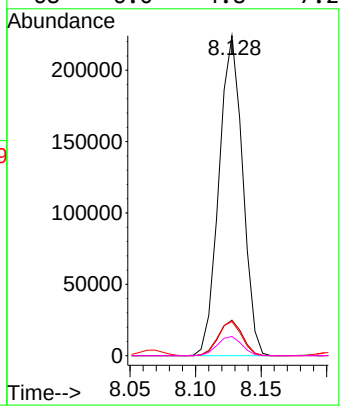


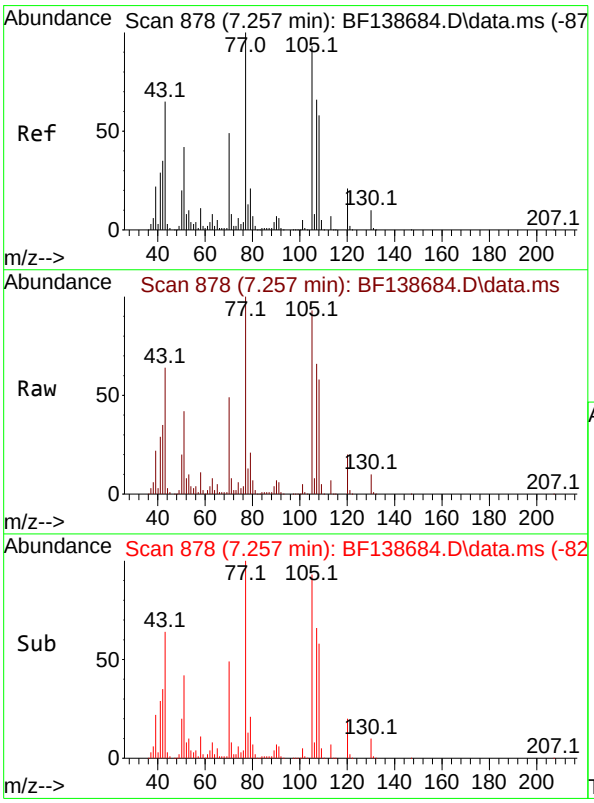

#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.128 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

Tgt Ion:136 Resp: 281315

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.1 | 8.9 | 13.3 |
| 54 | 10.7 | 8.6 | 12.8 |
| 68 | 6.0 | 4.8 | 7.2 |

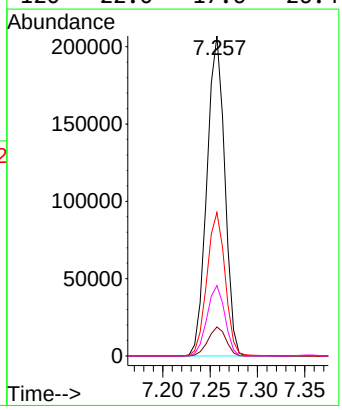


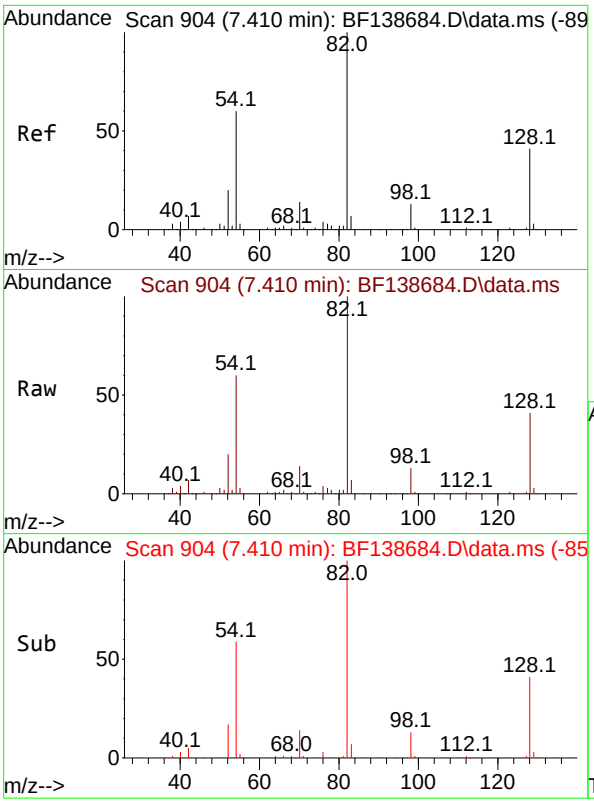




#22
Acetophenone
Concen: 39.378 ng
RT: 7.257 min Scan# 878
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:105 Resp: 271238

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 71 | 9.0 | 7.2 | 10.8 |
| 51 | 44.9 | 35.9 | 53.9 |
| 120 | 22.0 | 17.6 | 26.4 |



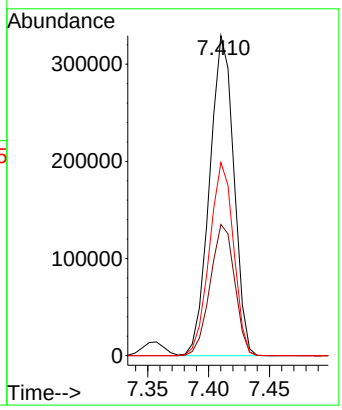


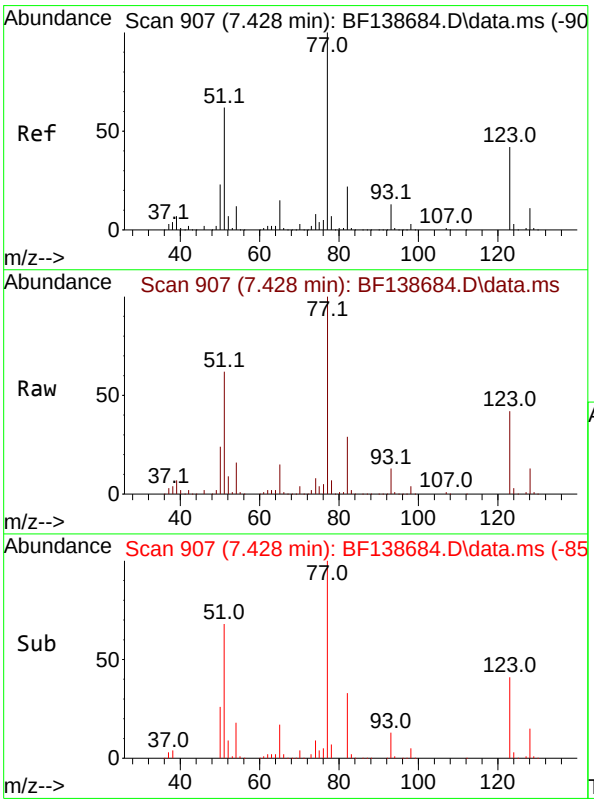

#23
Nitrobenzene-d5
Concen: 79.539 ng
RT: 7.410 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

Tgt Ion: 82 Resp: 457661

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 41.0 | 32.8 | 49.2 |
| 54 | 60.4 | 48.3 | 72.5 |

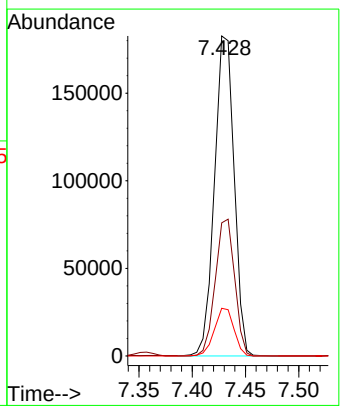


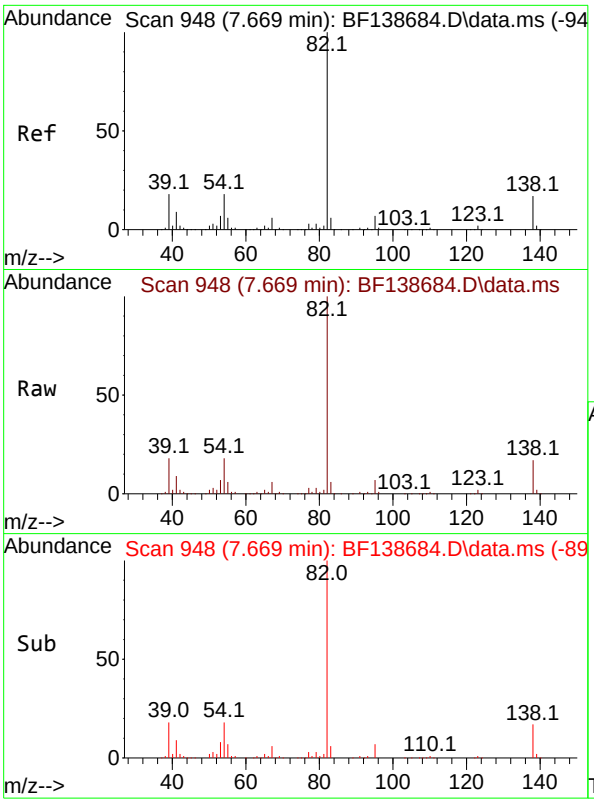




#24
Nitrobenzene
Concen: 40.040 ng
RT: 7.428 min Scan# 907
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion: 77 Resp: 234435

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 123 | 41.6 | 33.3 | 49.9 |
| 65 | 14.9 | 11.9 | 17.9 |



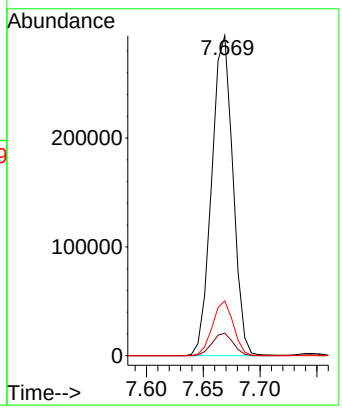


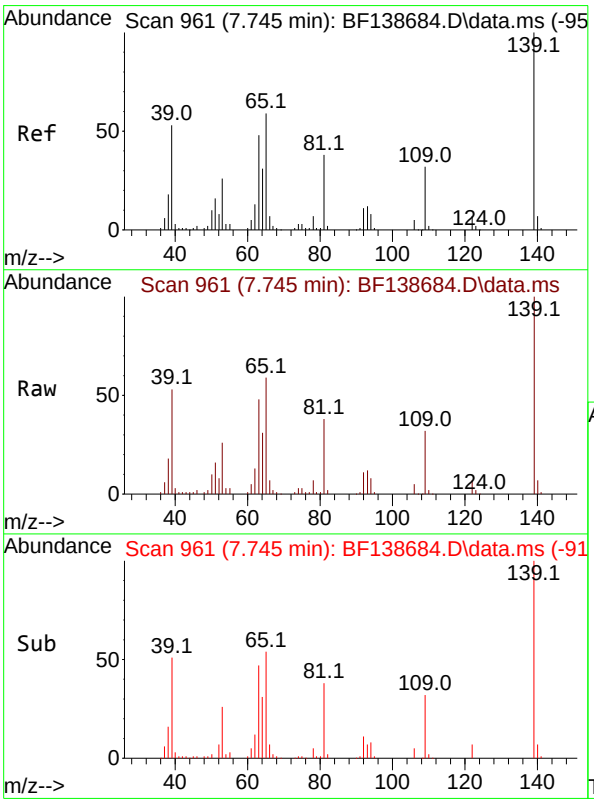

#25
Isophorone
Concen: 38.969 ng
RT: 7.669 min Scan# 94
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

Tgt Ion: 82 Resp: 382875

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 95 | 7.1 | 5.7 | 8.5 |
| 138 | 17.1 | 13.7 | 20.5 |

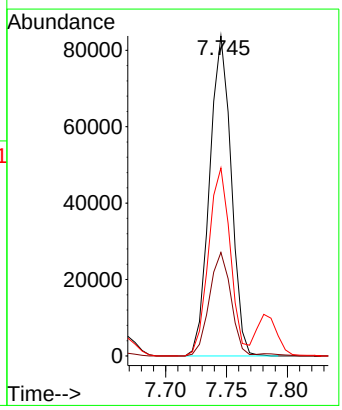


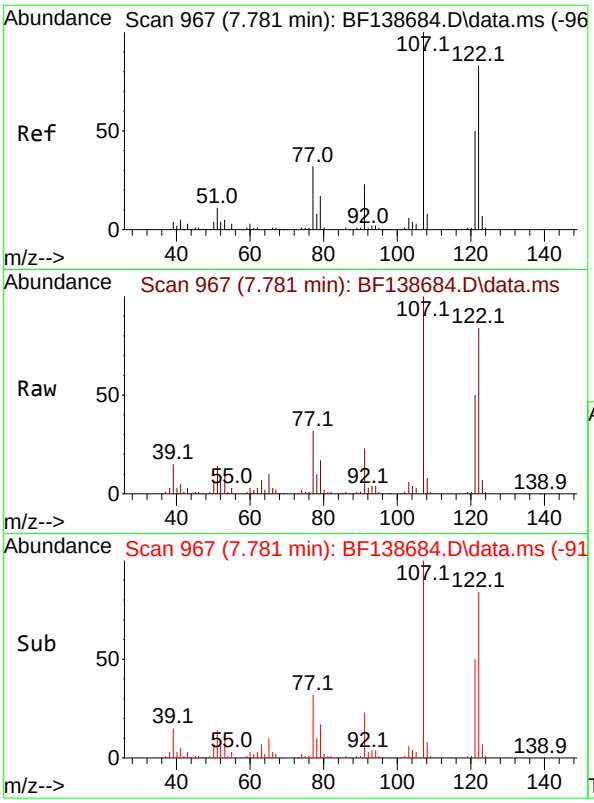




#26
2-Nitrophenol
Concen: 40.990 ng
RT: 7.745 min Scan# 961
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:139 Resp: 103255

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 32.4 | 25.9 | 38.9 |
| 65 | 58.8 | 47.0 | 70.6 |



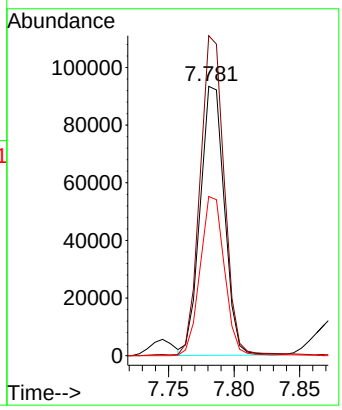


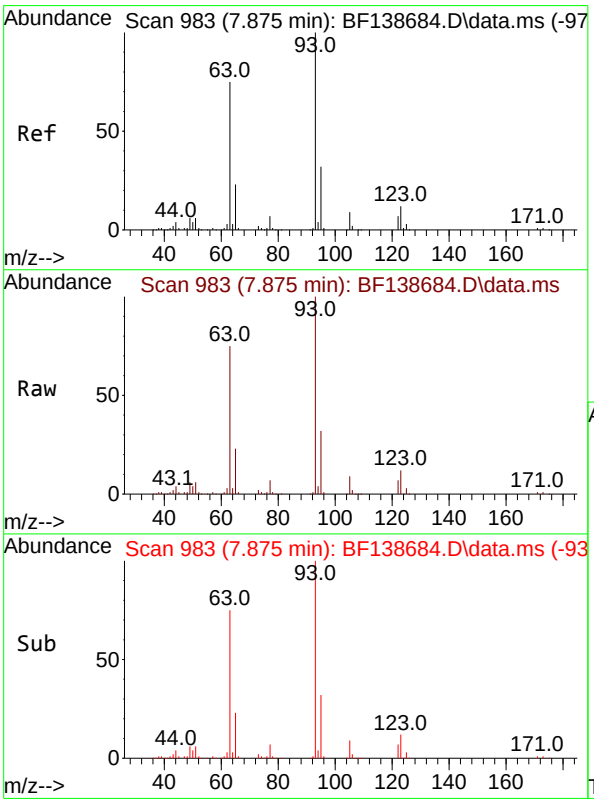

#27
2,4-Dimethylphenol
Concen: 39.890 ng
RT: 7.781 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

Tgt Ion:122 Resp: 120225

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 107 | 118.8 | 95.0 | 142.6 |
| 121 | 59.1 | 47.3 | 70.9 |

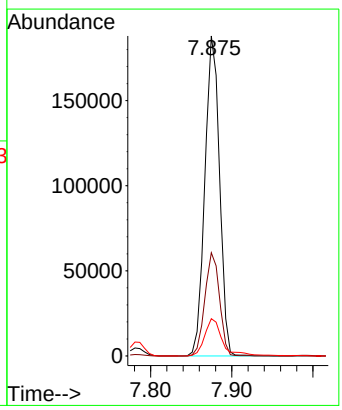


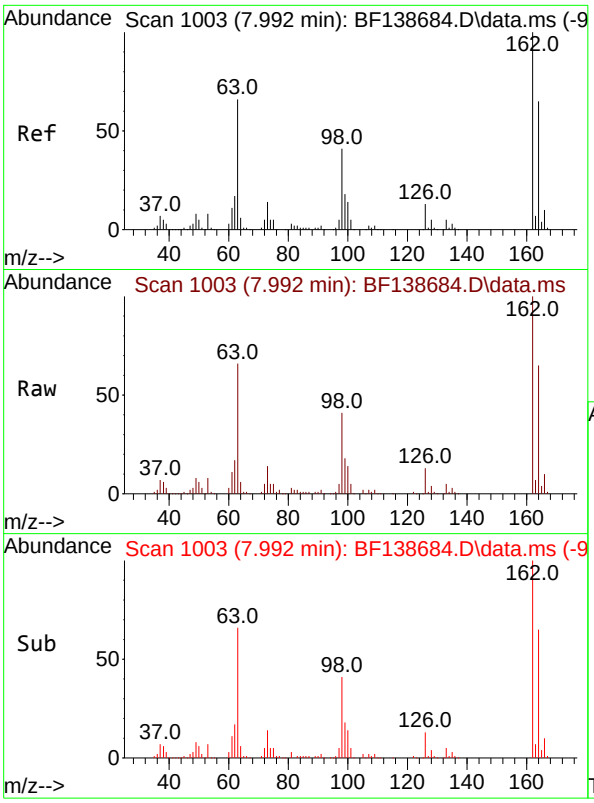




#28
bis(2-Chloroethoxy)methane
Concen: 39.348 ng
RT: 7.875 min Scan# 983
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion: 93 Resp: 235424

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 32.3 | 25.8 | 38.8 |
| 123 | 11.7 | 9.4 | 14.0 |



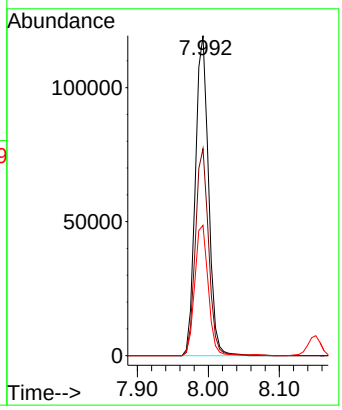


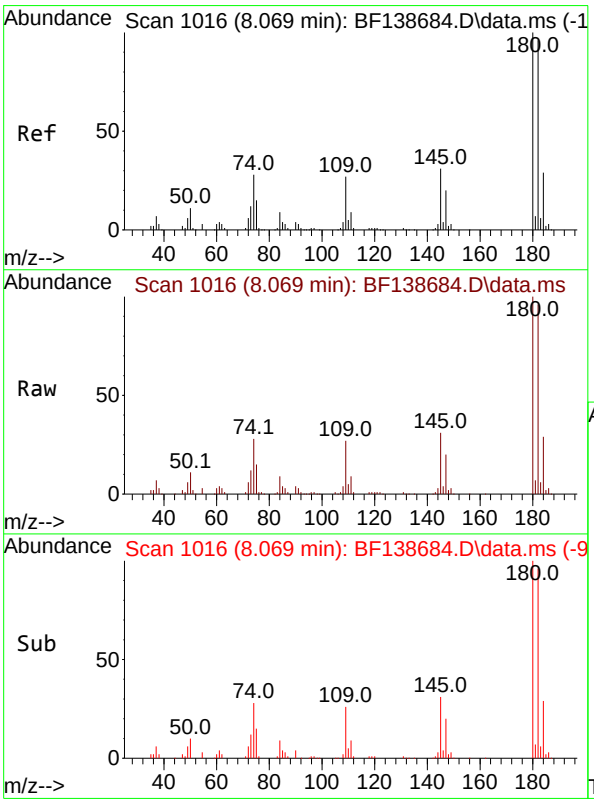

#29
2,4-Dichlorophenol
Concen: 40.030 ng
RT: 7.992 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

Tgt Ion:162 Resp: 155028

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 164 | 64.7 | 44.7 | 84.7 |
| 98 | 40.8 | 20.8 | 60.8 |

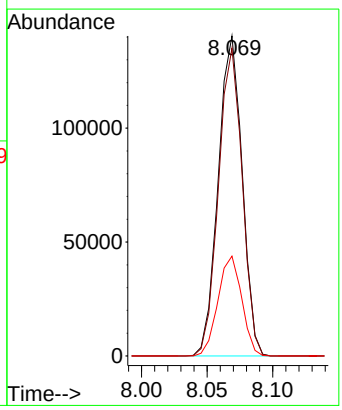


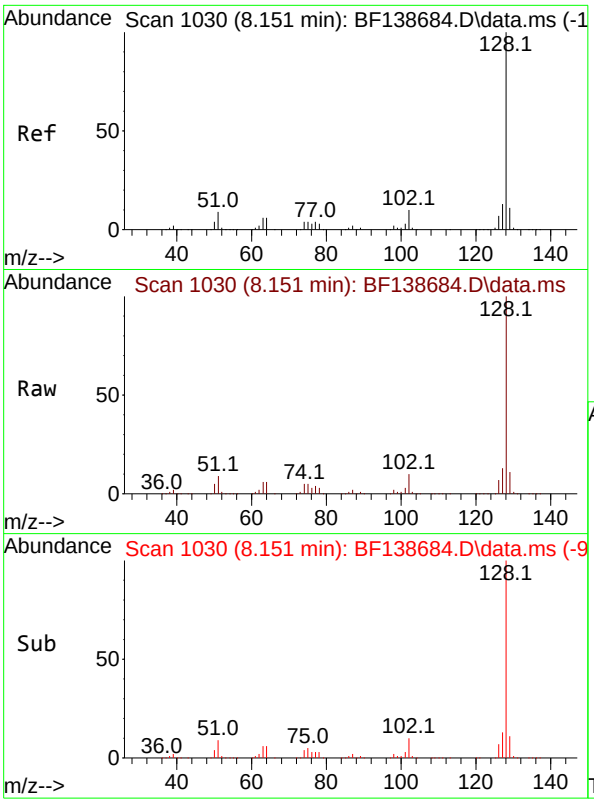




#30
1,2,4-Trichlorobenzene
Concen: 39.835 ng
RT: 8.069 min Scan# 1016
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:180 Resp: 178035

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 96.1 | 76.9 | 115.3 |
| 145 | 31.2 | 25.0 | 37.4 |



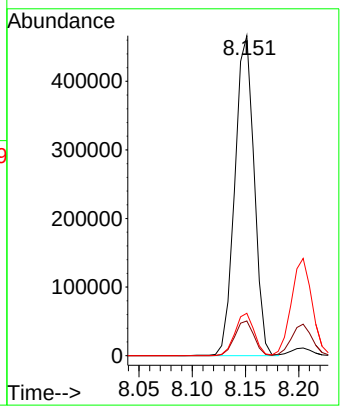


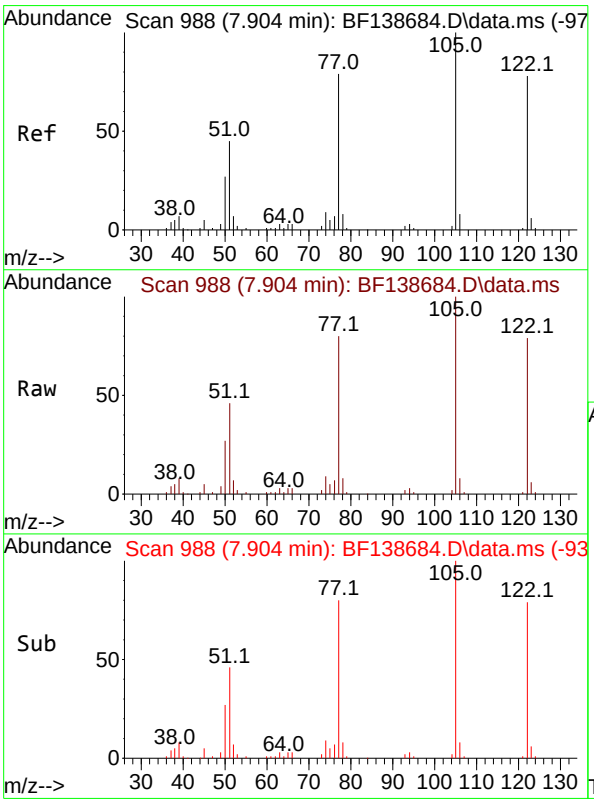

#31
Naphthalene
Concen: 39.655 ng
RT: 8.151 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

Tgt Ion:128 Resp: 587199

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 10.9 | 8.7 | 13.1 |
| 127 | 13.3 | 10.6 | 16.0 |

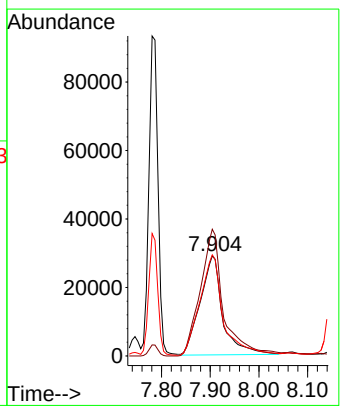


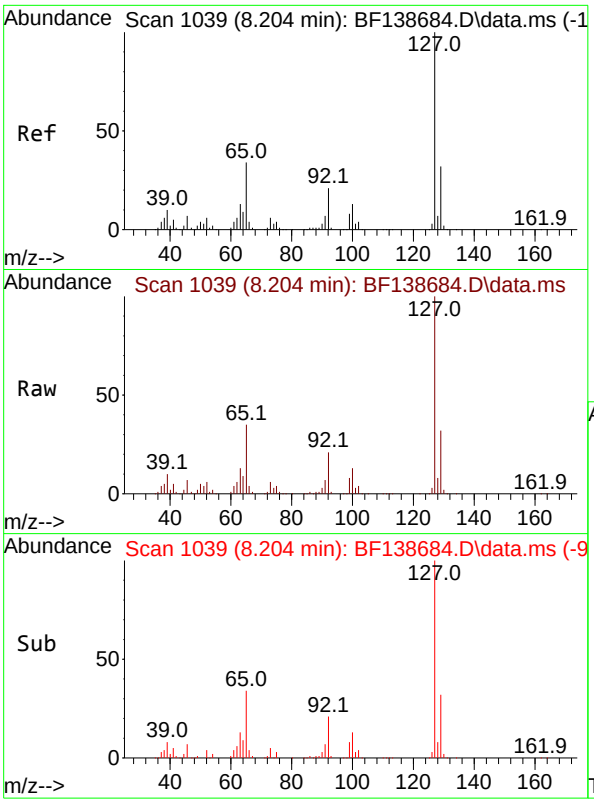




#32
Benzoic acid
Concen: 39.389 ng
RT: 7.904 min Scan# 988
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:122 Resp: 93278

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 126.7 | 106.7 | 146.7 |
| 77 | 101.1 | 81.1 | 121.1 |



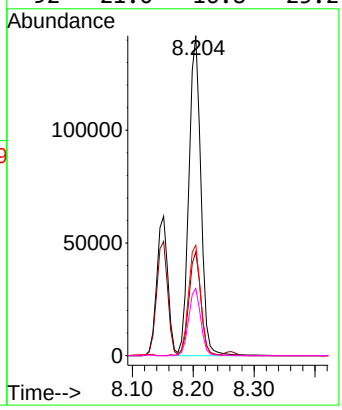


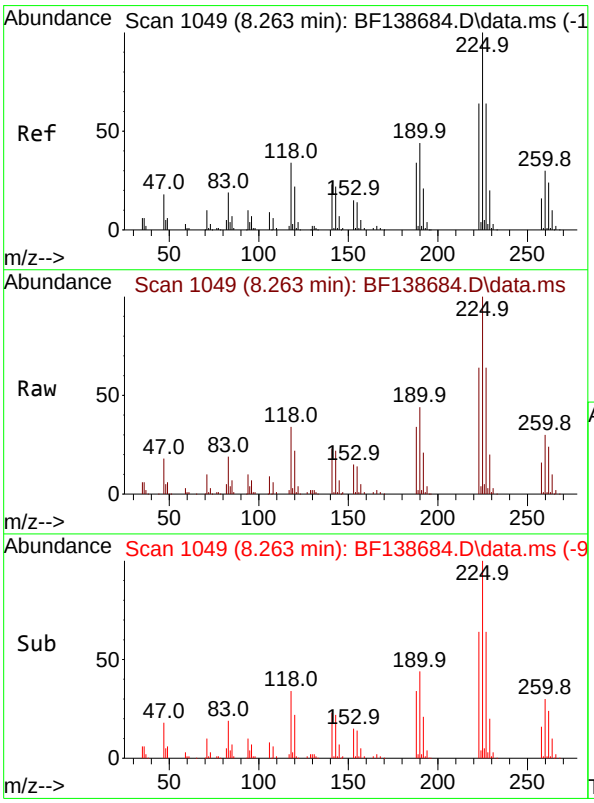

#33
4-Chloroaniline
Concen: 39.130 ng
RT: 8.204 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

Tgt Ion:127 Resp: 194499

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 32.4 | 25.9 | 38.9 |
| 65 | 34.5 | 27.6 | 41.4 |
| 92 | 21.0 | 16.8 | 25.2 |

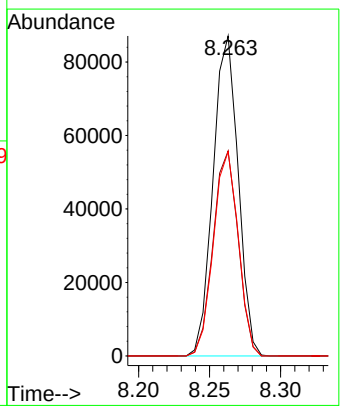


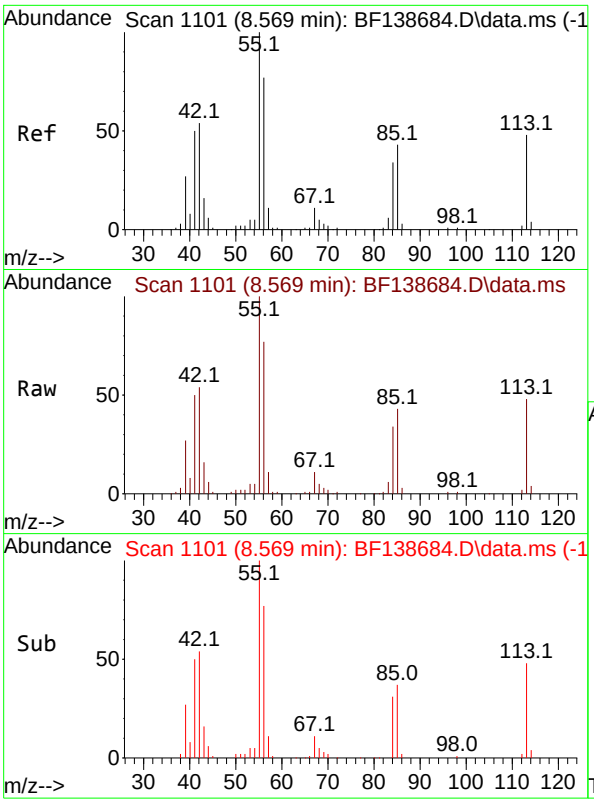




#34
Hexachlorobutadiene
Concen: 39.476 ng
RT: 8.263 min Scan# 1049
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:225 Resp: 106863

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 64.0 | 51.2 | 76.8 |
| 227 | 63.9 | 51.1 | 76.7 |



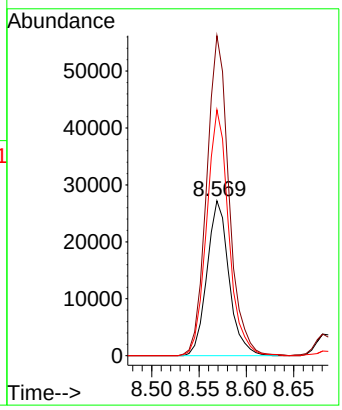


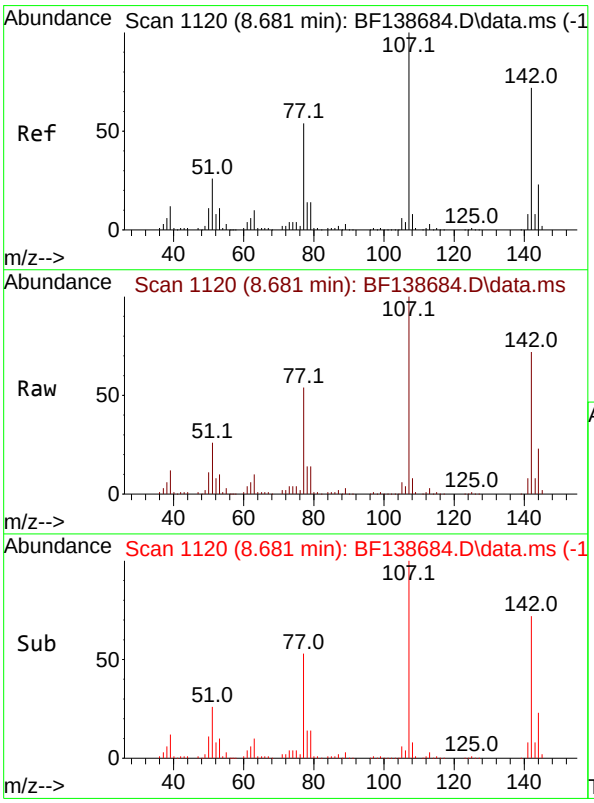

#35
Caprolactam
Concen: 37.984 ng
RT: 8.569 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

Tgt Ion:113 Resp: 43894

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 55 | 206.7 | 186.7 | 226.7 |
| 56 | 158.9 | 138.9 | 178.9 |

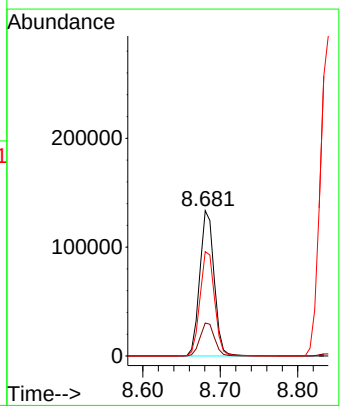


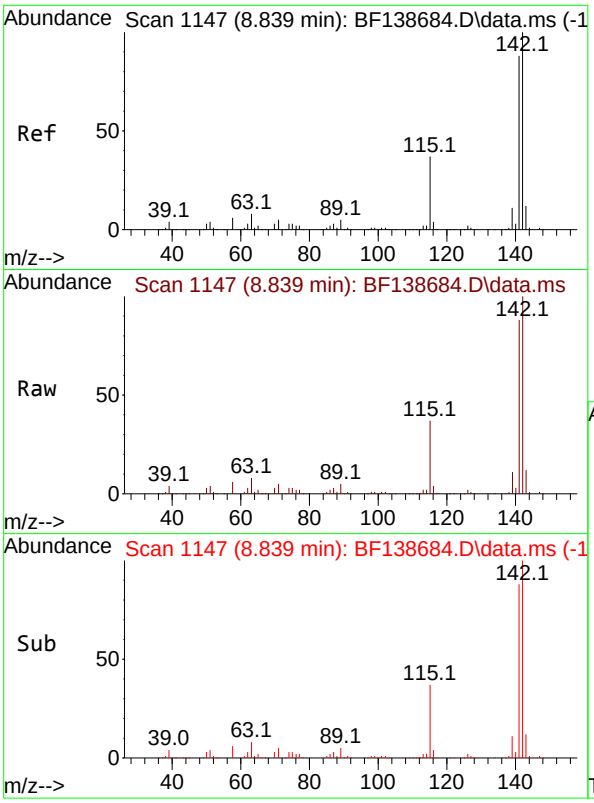




#36
4-Chloro-3-methylphenol
Concen: 38.983 ng
RT: 8.681 min Scan# 1120
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:107 Resp: 172540

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 144 | 22.7 | 18.2 | 27.2 |
| 142 | 71.8 | 57.4 | 86.2 |



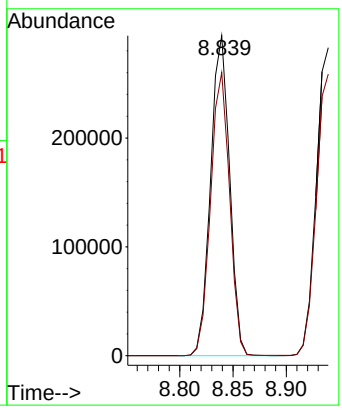


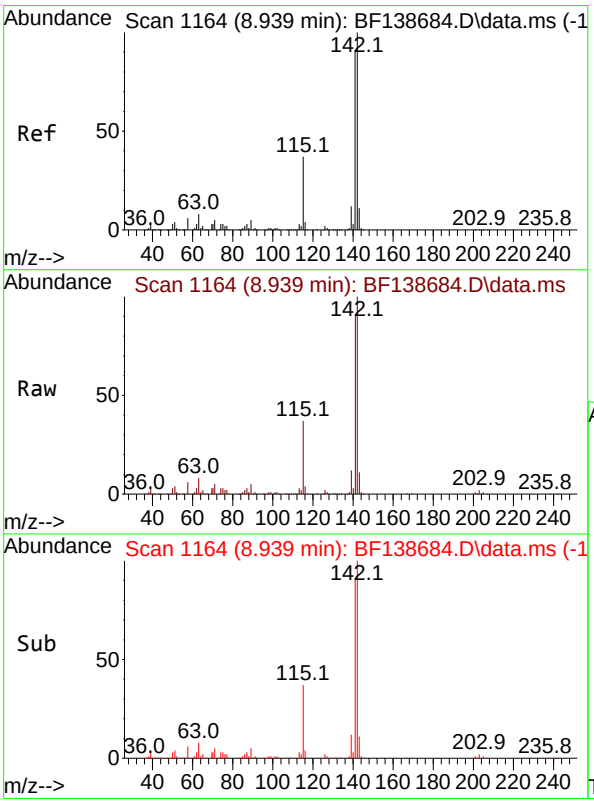

#37
2-Methylnaphthalene
Concen: 39.019 ng
RT: 8.839 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

Tgt Ion:142 Resp: 364899

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 88.5 | 70.8 | 106.2 |

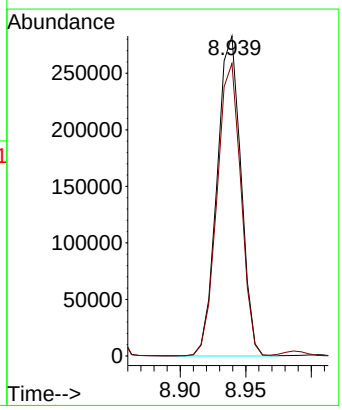


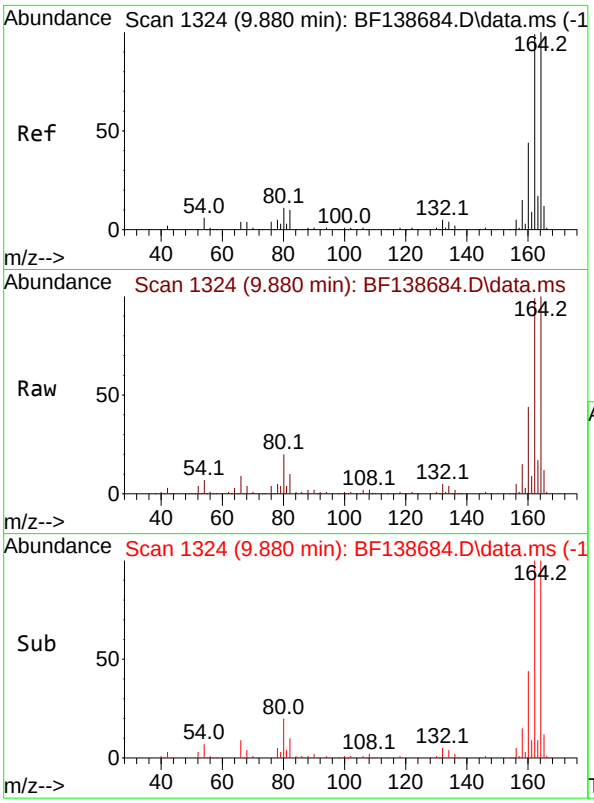




#38
1-Methylnaphthalene
Concen: 39.045 ng
RT: 8.939 min Scan# 1164
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:142 Resp: 357806

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 91.4 | 73.1 | 109.7 |



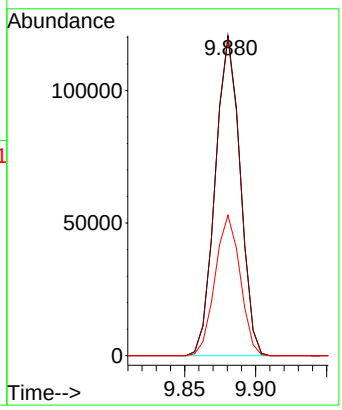


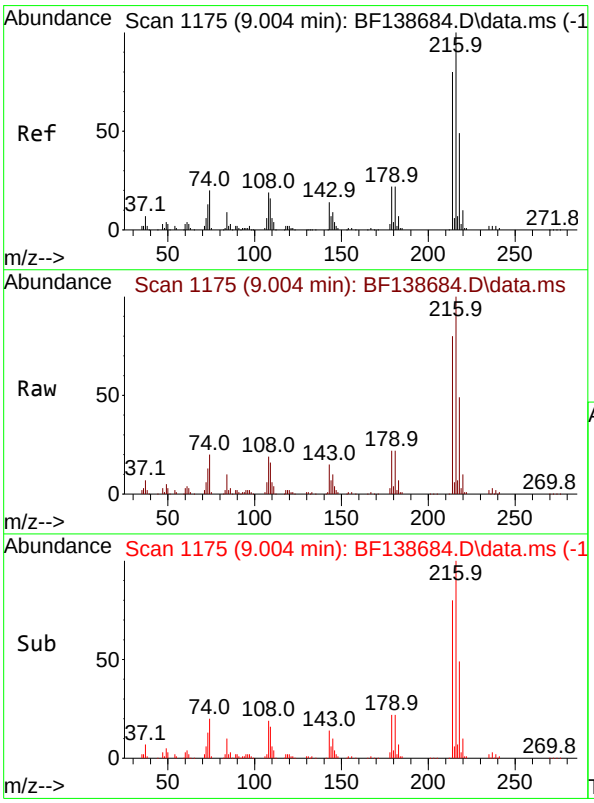

#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.880 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

Tgt Ion:164 Resp: 146962

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 99.2 | 79.4 | 119.0 |
| 160 | 43.9 | 35.1 | 52.7 |

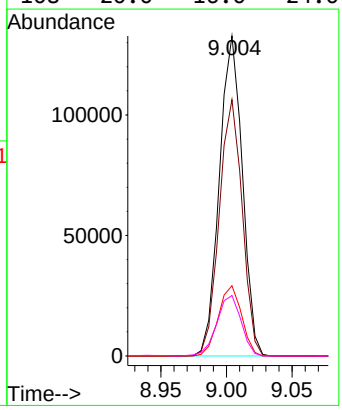


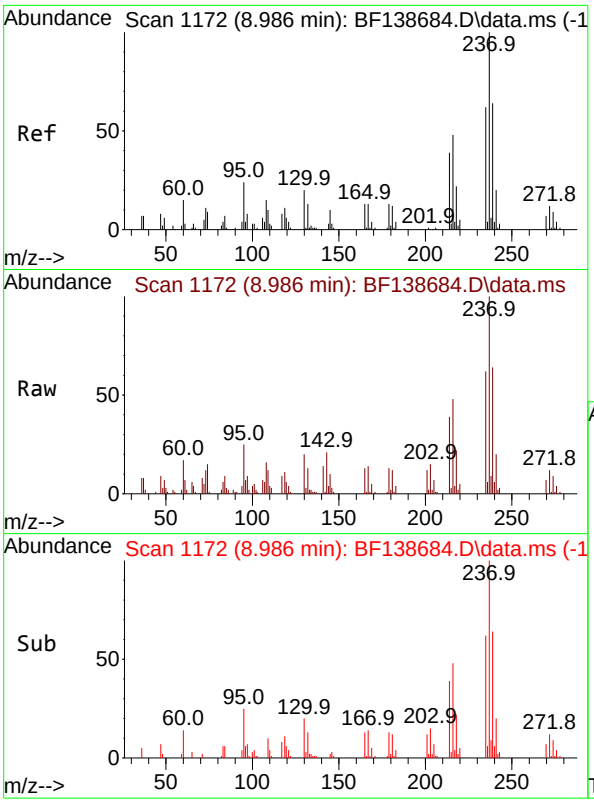




#40
1,2,4,5-Tetrachlorobenzene
Concen: 39.628 ng
RT: 9.004 min Scan# 1175
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:216 Resp: 161777

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 216 | 100 | | |
| 214 | 79.9 | 63.9 | 95.9 |
| 179 | 22.2 | 17.8 | 26.6 |
| 108 | 20.0 | 16.0 | 24.0 |



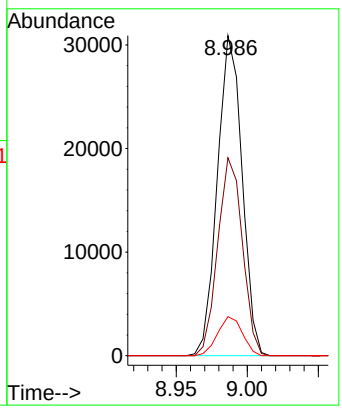


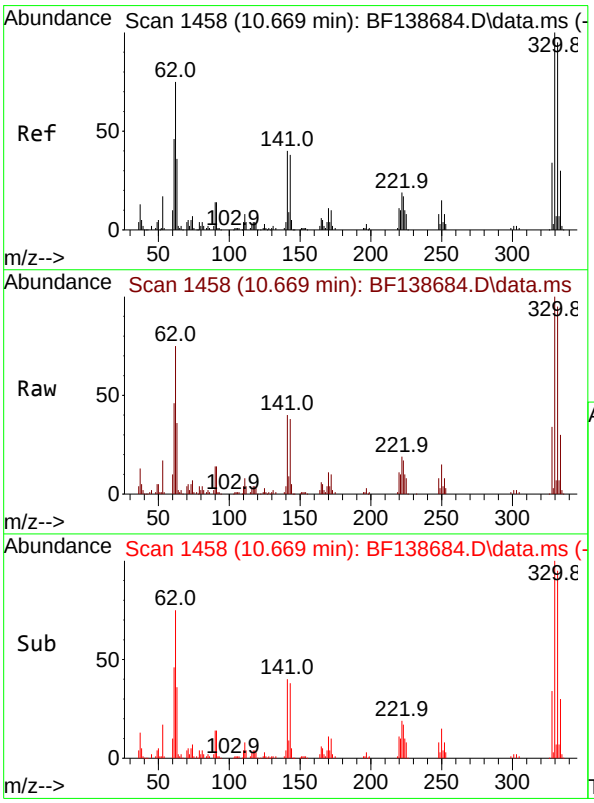

#41
Hexachlorocyclopentadiene
Concen: 38.484 ng
RT: 8.986 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

Tgt Ion:237 Resp: 37306

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 237 | 100 | | |
| 235 | 61.8 | 41.8 | 81.8 |
| 272 | 12.2 | 0.0 | 32.2 |

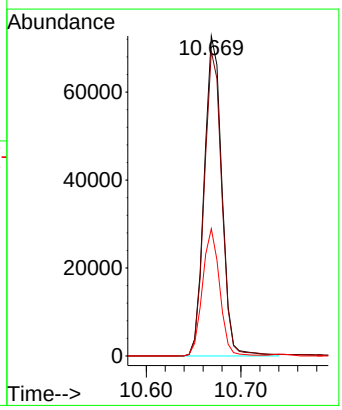


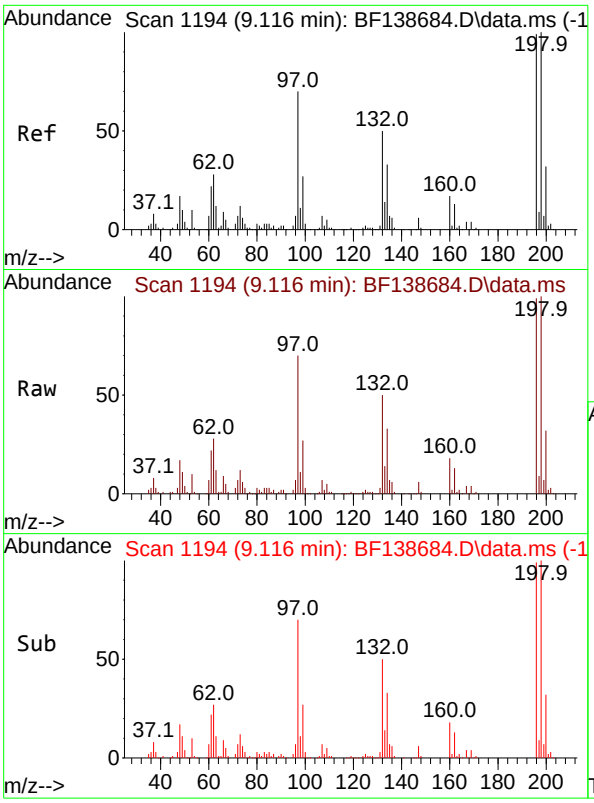




#42
2,4,6-Tribromophenol
Concen: 77.638 ng
RT: 10.669 min Scan# 1458
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:330 Resp: 93462

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 95.5 | 76.4 | 114.6 |
| 141 | 38.9 | 31.1 | 46.7 |



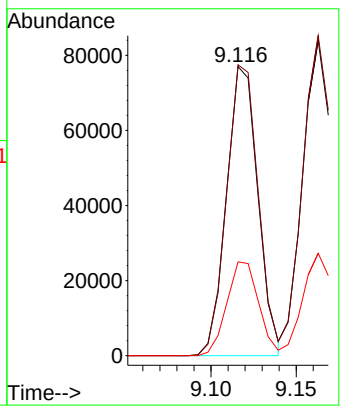


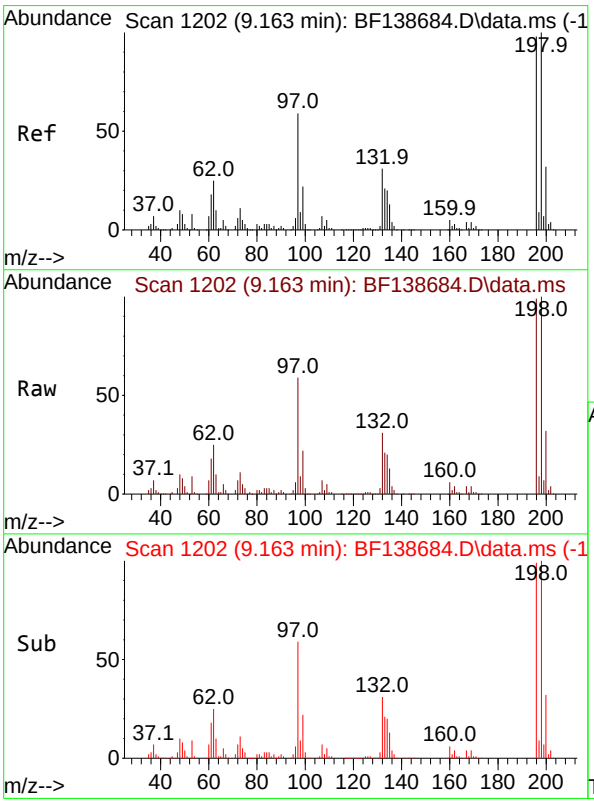

#43
2,4,6-Trichlorophenol
Concen: 39.709 ng
RT: 9.116 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

Tgt Ion:196 Resp: 98841

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 100.6 | 80.5 | 120.7 |
| 200 | 32.4 | 25.9 | 38.9 |

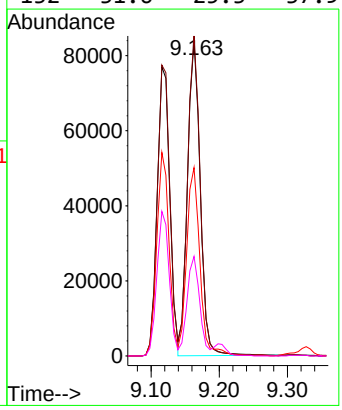


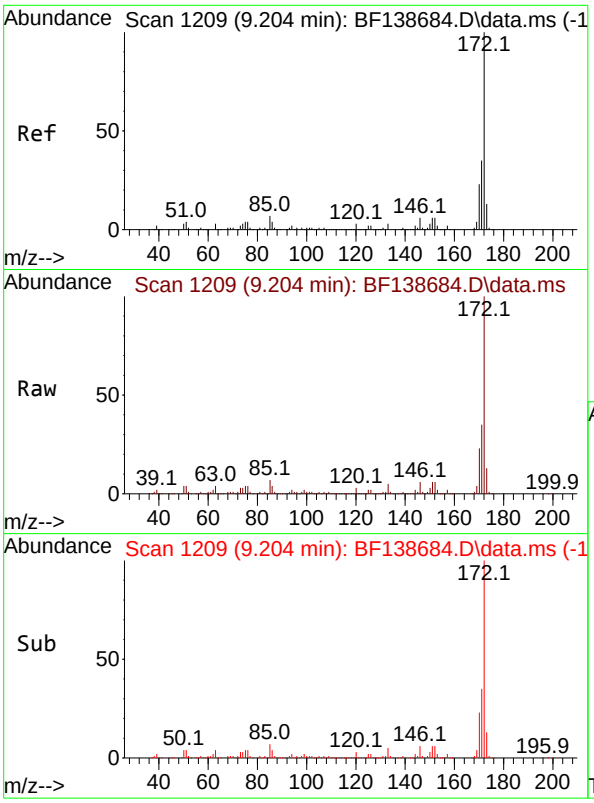




#44
2,4,5-Trichlorophenol
Concen: 39.788 ng
RT: 9.163 min Scan# 1202
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:196 Resp: 108268

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 101.5 | 81.2 | 121.8 |
| 97 | 59.7 | 47.8 | 71.6 |
| 132 | 31.6 | 25.3 | 37.9 |



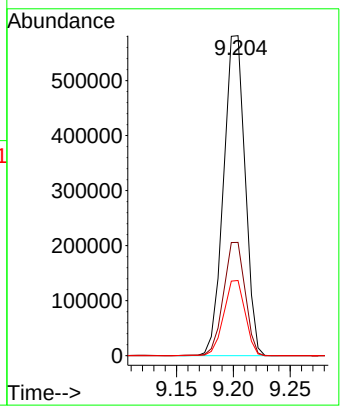


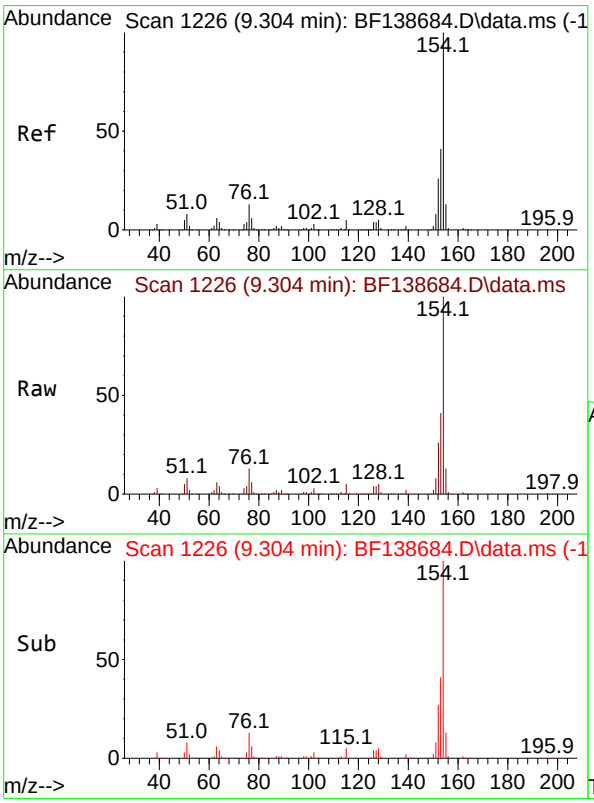

#45
2-Fluorobiphenyl
Concen: 78.480 ng
RT: 9.204 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

Tgt Ion:172 Resp: 767623

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.4 | 28.3 | 42.5 |
| 170 | 23.5 | 18.8 | 28.2 |

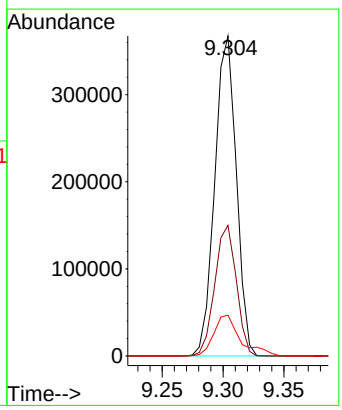


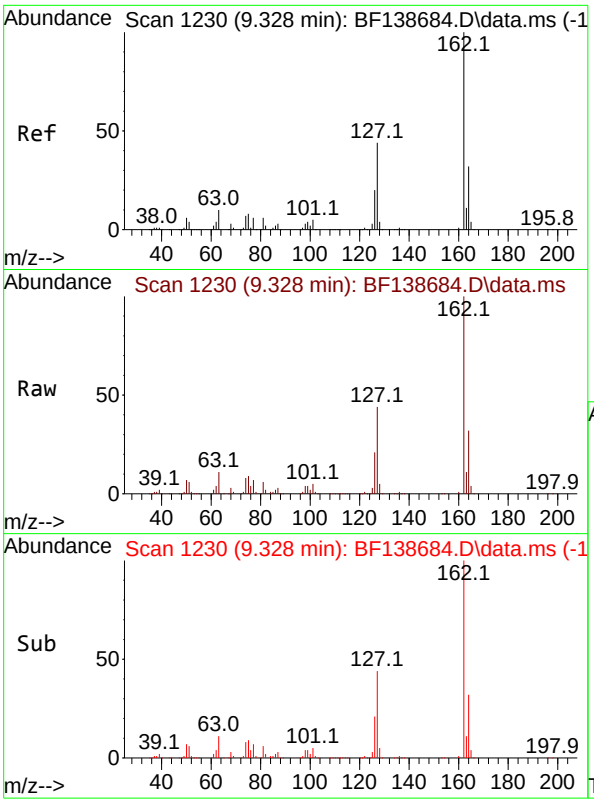




#46
1,1'-Biphenyl
Concen: 39.303 ng
RT: 9.304 min Scan# 1226
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:154 Resp: 452377

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 40.8 | 20.8 | 60.8 |
| 76 | 12.8 | 0.0 | 32.8 |



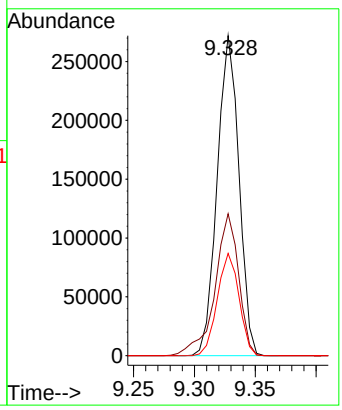


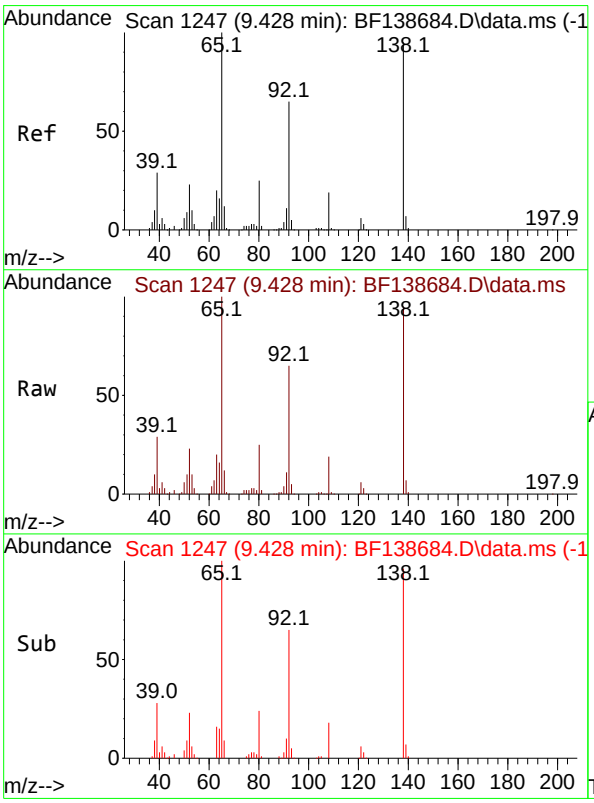

#47
2-Chloronaphthalene
Concen: 39.520 ng
RT: 9.328 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

Tgt Ion:162 Resp: 338303

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 127 | 44.3 | 35.4 | 53.2 |
| 164 | 32.0 | 25.6 | 38.4 |

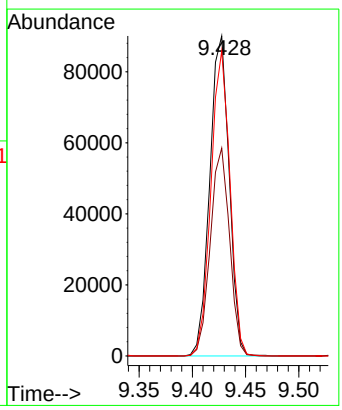


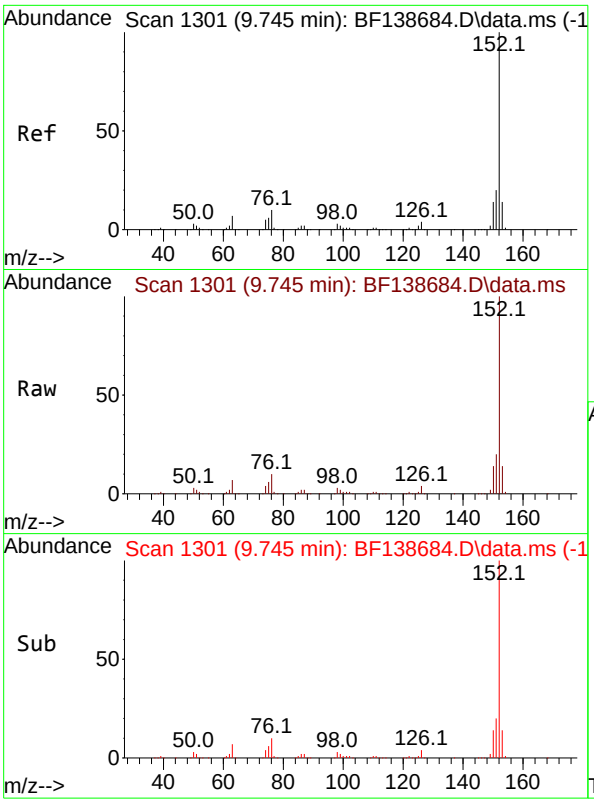




#48
2-Nitroaniline
Concen: 39.417 ng
RT: 9.428 min Scan# 1247
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion: 65 Resp: 114390

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 92 | 65.0 | 52.0 | 78.0 |
| 138 | 95.3 | 76.2 | 114.4 |



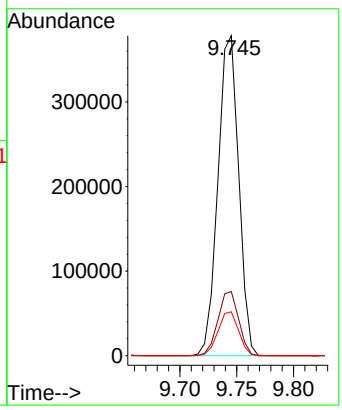


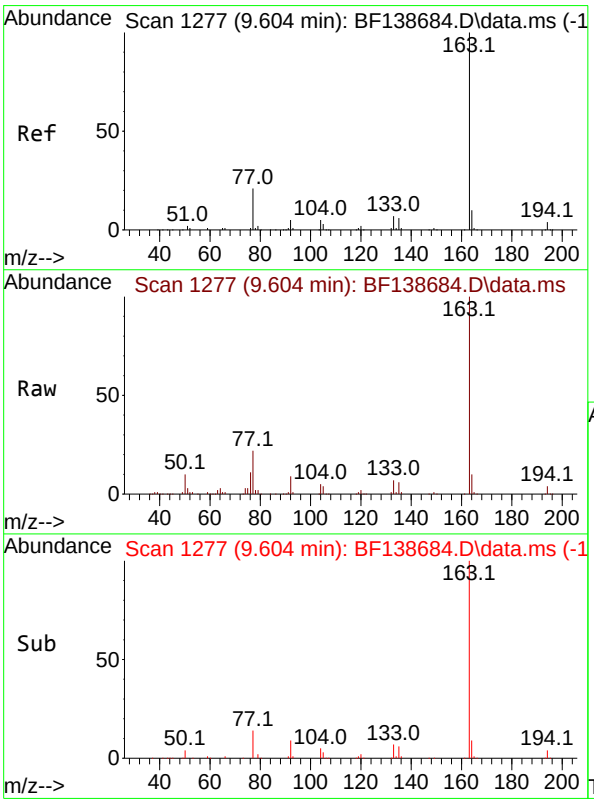

#49
Acenaphthylene
Concen: 39.633 ng
RT: 9.745 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

Tgt Ion:152 Resp: 481180

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.0 | 16.0 | 24.0 |
| 153 | 13.7 | 11.0 | 16.4 |

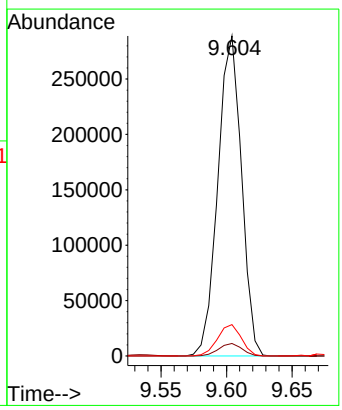


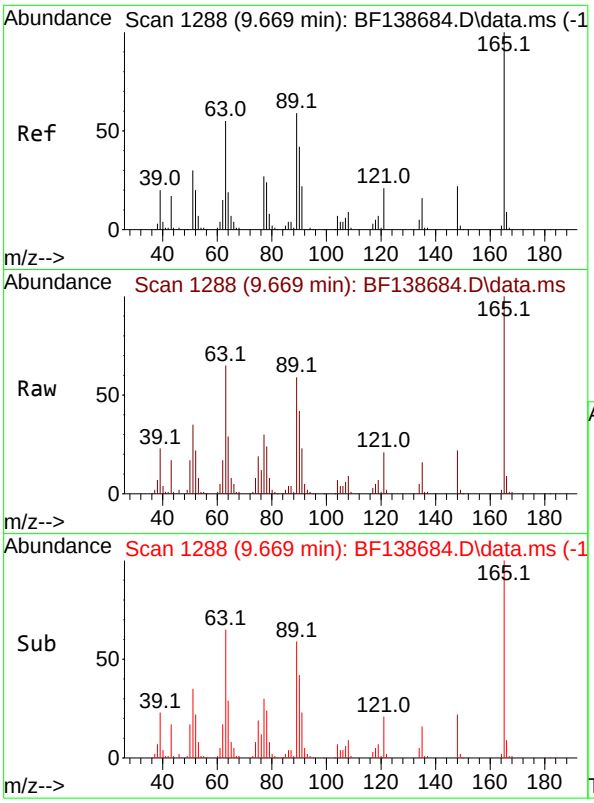




#50
Dimethylphthalate
Concen: 38.452 ng
RT: 9.604 min Scan# 1277
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:163 Resp: 361332

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 3.9 | 3.1 | 4.7 |
| 164 | 9.8 | 7.8 | 11.8 |



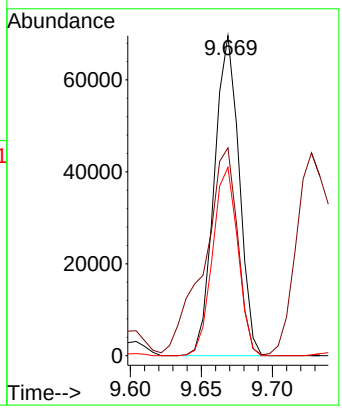


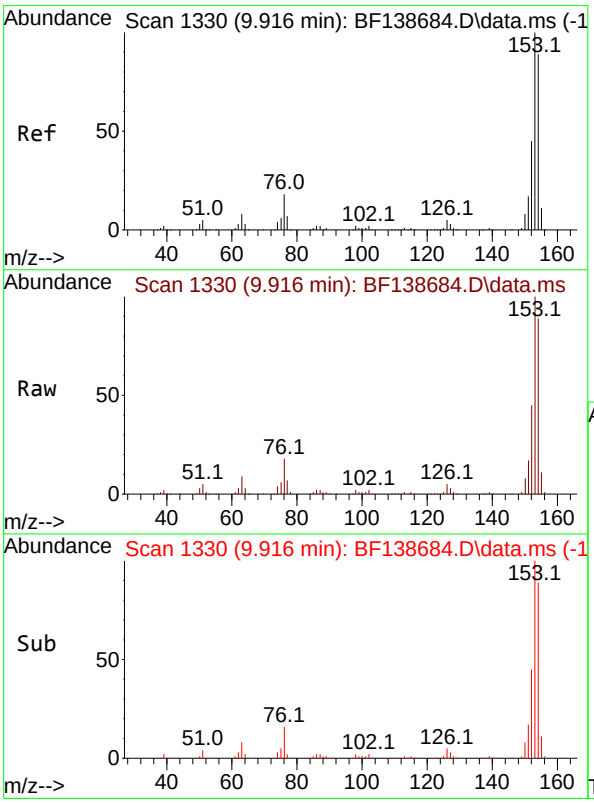

#51
2,6-Dinitrotoluene
Concen: 39.918 ng
RT: 9.669 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

Tgt Ion:165 Resp: 84654

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 65.0 | 52.0 | 78.0 |
| 89 | 58.8 | 47.0 | 70.6 |

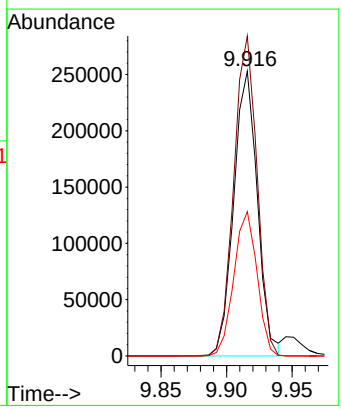


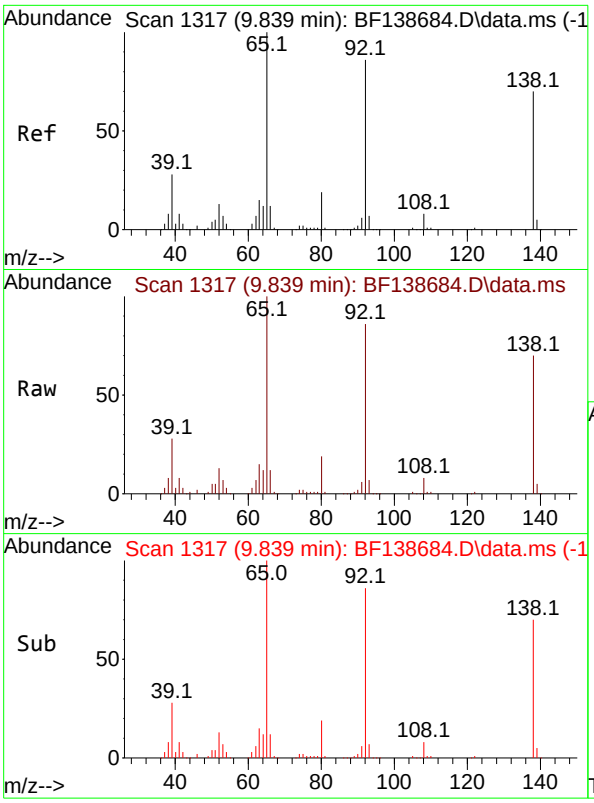




#52
Acenaphthene
Concen: 38.964 ng
RT: 9.916 min Scan# 1330
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:154 Resp: 318001

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 112.4 | 89.9 | 134.9 |
| 152 | 50.7 | 40.6 | 60.8 |



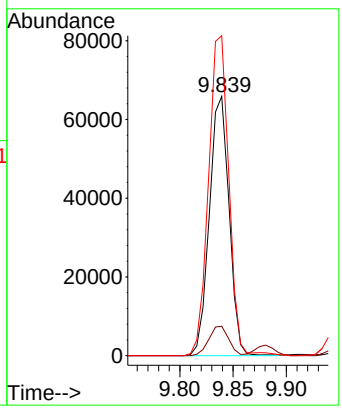


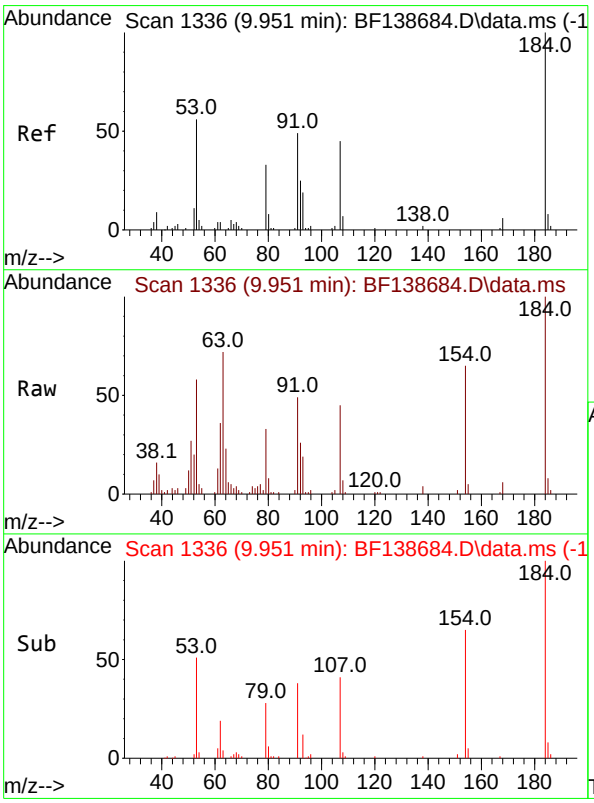

#53
3-Nitroaniline
Concen: 38.633 ng
RT: 9.839 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

Tgt Ion:138 Resp: 84697

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 108 | 11.4 | 9.1 | 13.7 |
| 92 | 123.4 | 98.7 | 148.1 |

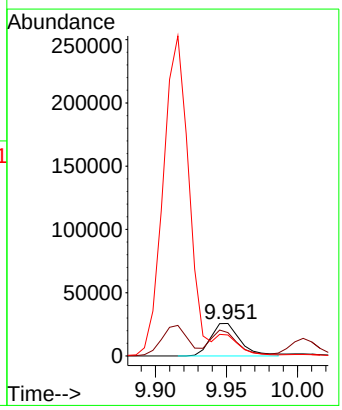


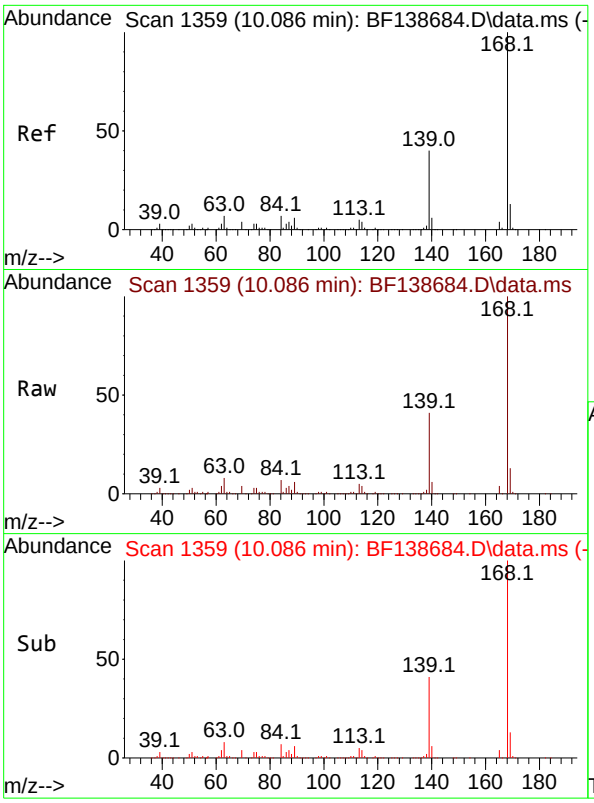




#54
2,4-Dinitrophenol
Concen: 38.289 ng
RT: 9.951 min Scan# 1336
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:184 Resp: 37379

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 63 | 71.9 | 57.5 | 86.3 |
| 154 | 64.6 | 51.7 | 77.5 |



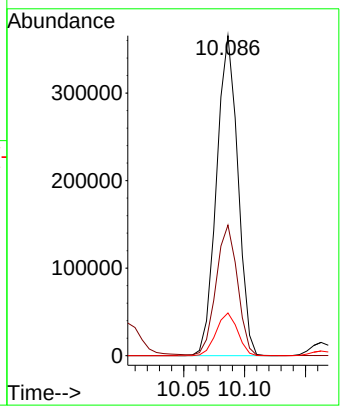


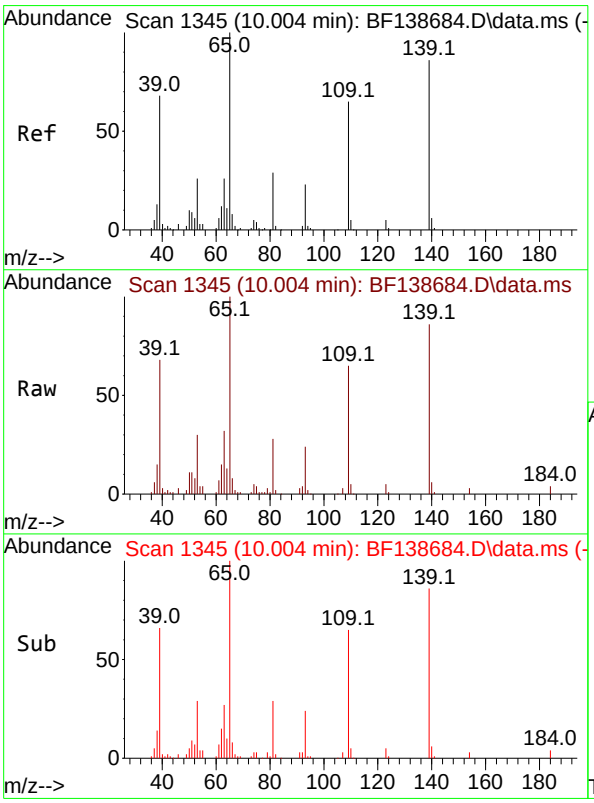

#55
Dibenzofuran
Concen: 38.648 ng
RT: 10.086 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

Tgt Ion:168 Resp: 445244

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 40.8 | 32.6 | 49.0 |
| 169 | 13.4 | 10.7 | 16.1 |

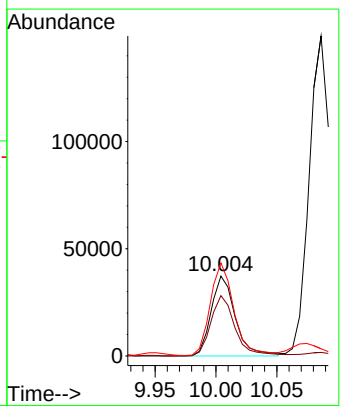


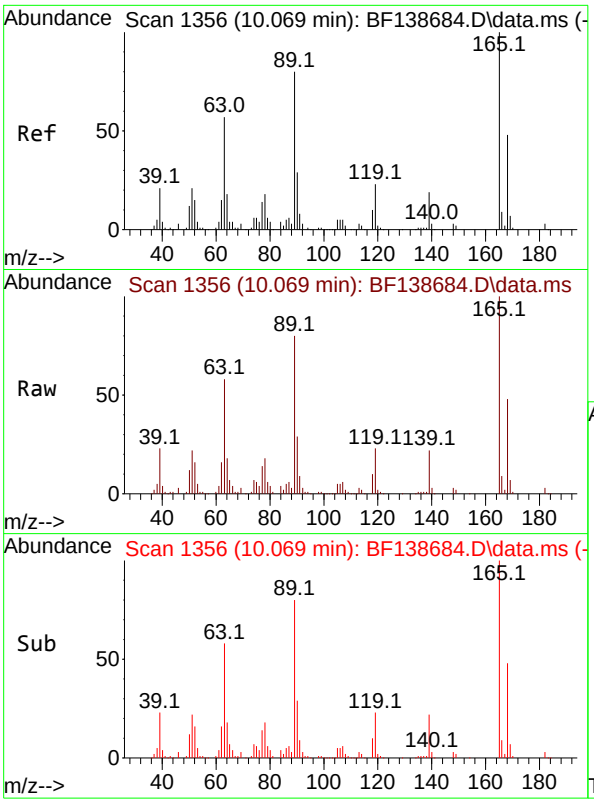




#56
4-Nitrophenol
Concen: 39.032 ng
RT: 10.004 min Scan# 1345
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:139 Resp: 51459

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 75.5 | 55.5 | 95.5 |
| 65 | 116.7 | 96.7 | 136.7 |



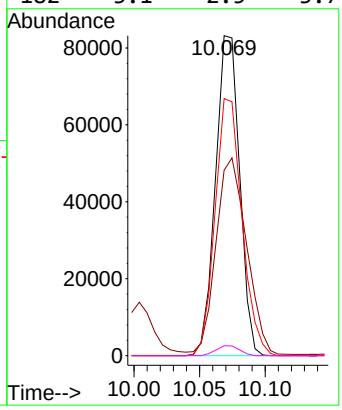


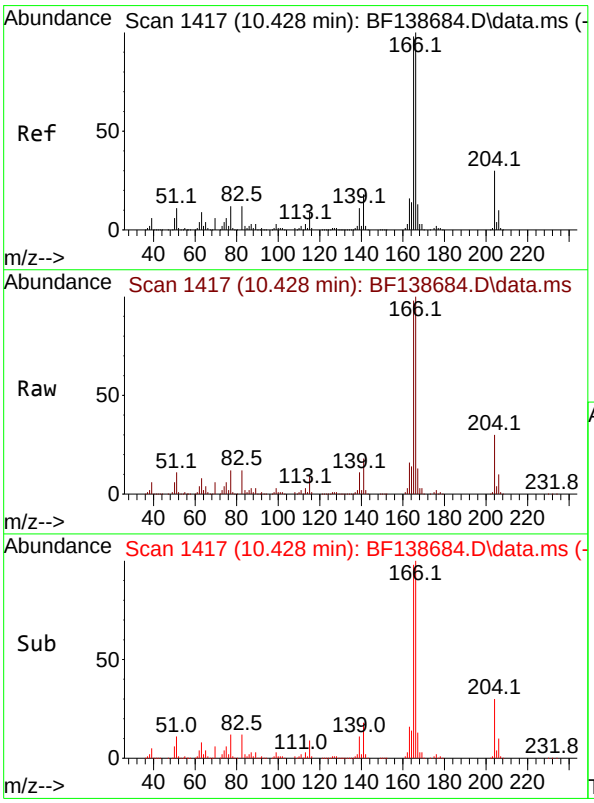

#57
2,4-Dinitrotoluene
Concen: 39.341 ng
RT: 10.069 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

Tgt Ion:165 Resp: 106444

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 57.9 | 46.3 | 69.5 |
| 89 | 80.3 | 64.2 | 96.4 |
| 182 | 3.1 | 2.5 | 3.7 |

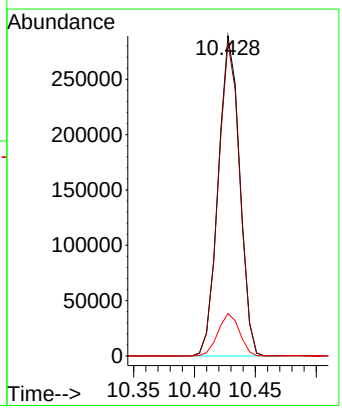


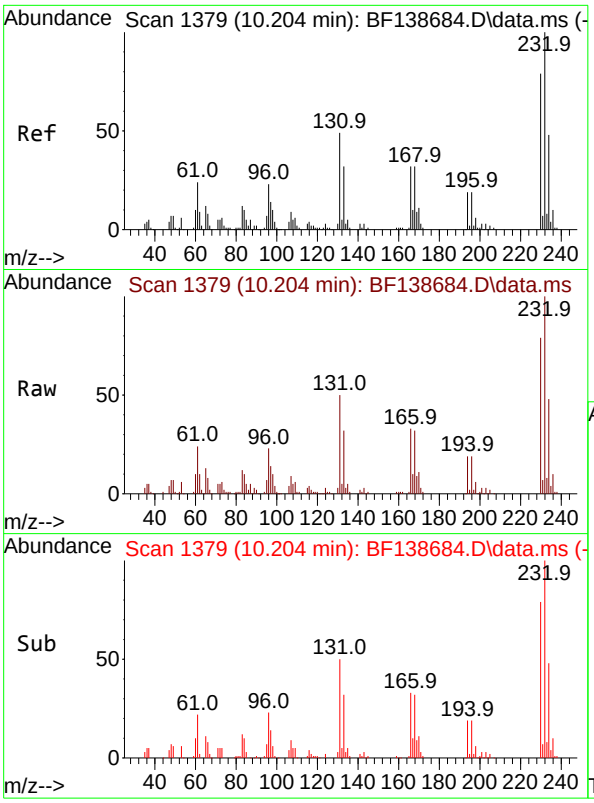




#58
Fluorene
Concen: 38.634 ng
RT: 10.428 min Scan# 1417
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:166 Resp: 354441

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 98.0 | 78.4 | 117.6 |
| 167 | 13.3 | 10.6 | 16.0 |



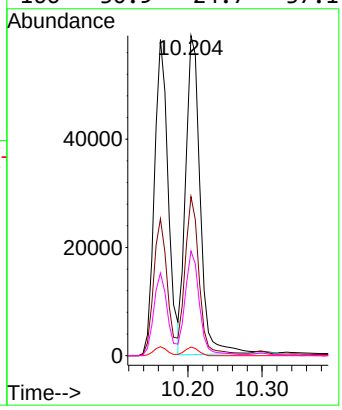


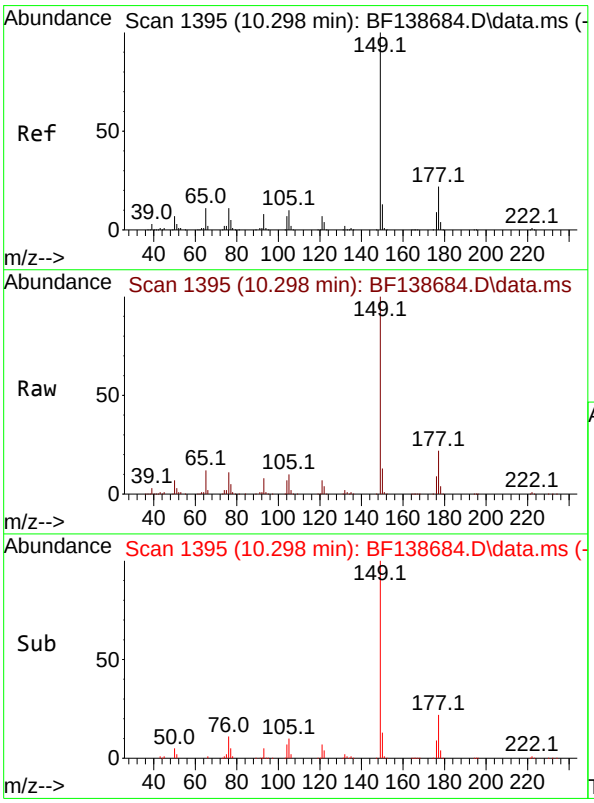

#59
2,3,4,6-Tetrachlorophenol
Concen: 38.673 ng
RT: 10.204 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

Tgt Ion:232 Resp: 80452

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 232 | 100 | | |
| 131 | 46.2 | 37.0 | 55.4 |
| 130 | 2.5 | 2.0 | 3.0 |
| 166 | 30.9 | 24.7 | 37.1 |

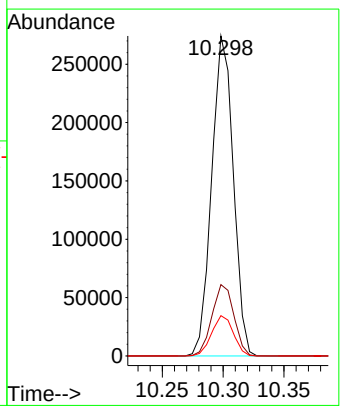


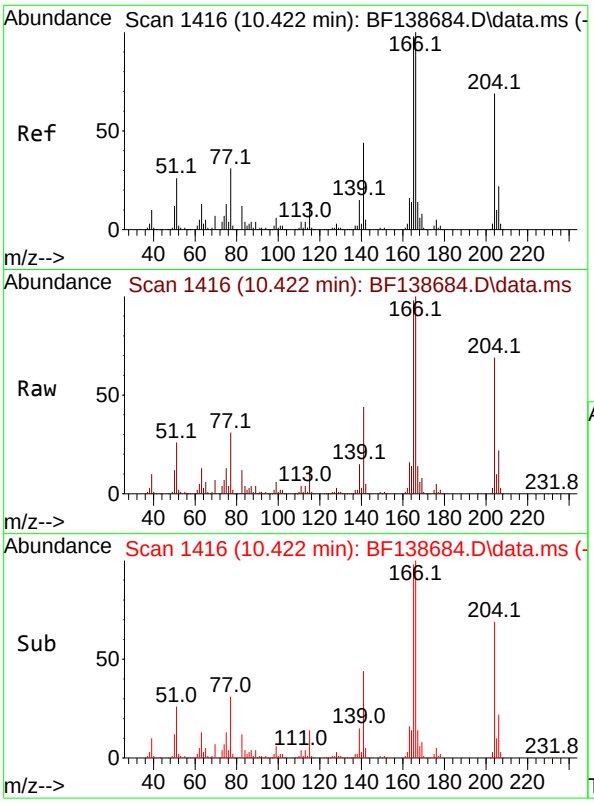




#60
Diethylphthalate
Concen: 38.114 ng
RT: 10.298 min Scan# 1395
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:149 Resp: 339596

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 177 | 22.3 | 17.8 | 26.8 |
| 150 | 12.6 | 10.1 | 15.1 |



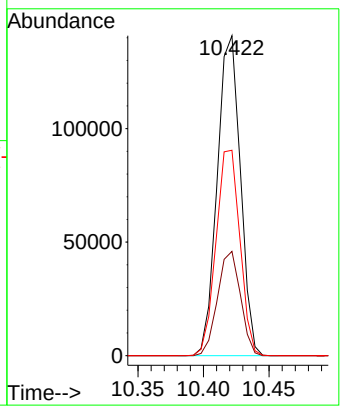


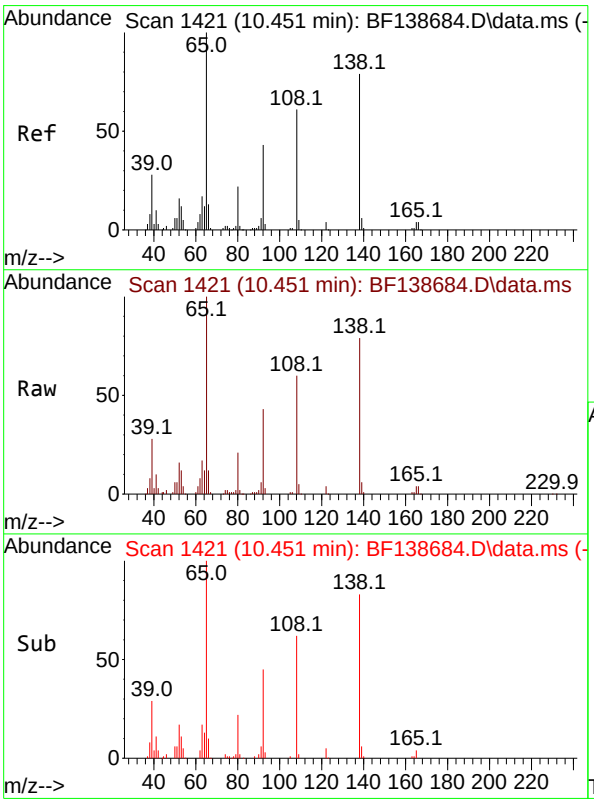

#61
4-Chlorophenyl-phenylether
Concen: 38.346 ng
RT: 10.422 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

Tgt Ion:204 Resp: 173020

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 204 | 100 | | |
| 206 | 32.6 | 26.1 | 39.1 |
| 141 | 64.2 | 51.4 | 77.0 |

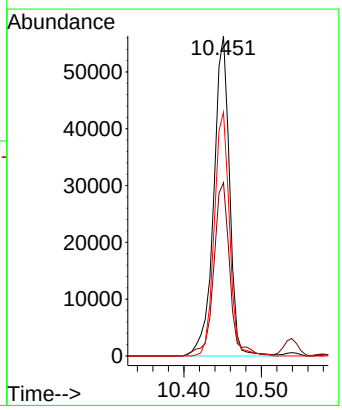


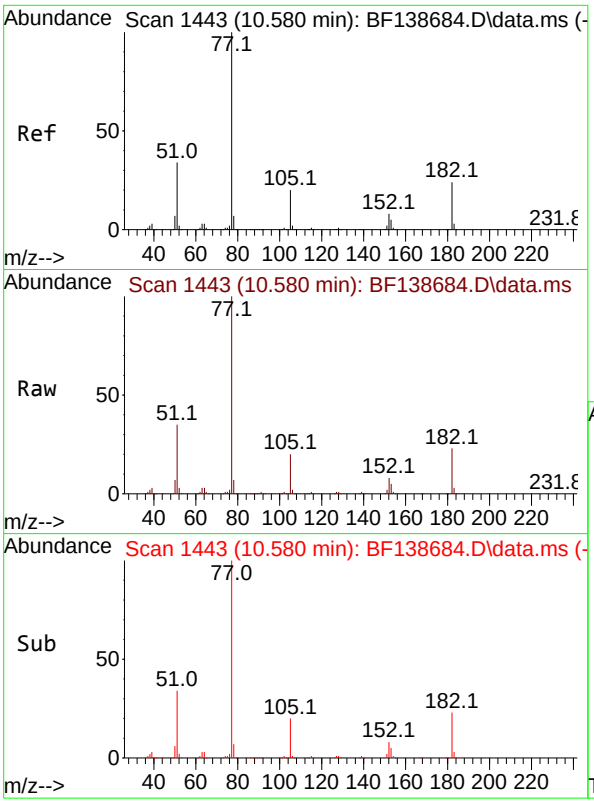




#62
4-Nitroaniline
Concen: 38.360 ng
RT: 10.451 min Scan# 1421
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:138 Resp: 79919

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 54.2 | 34.2 | 74.2 |
| 108 | 76.2 | 56.2 | 96.2 |



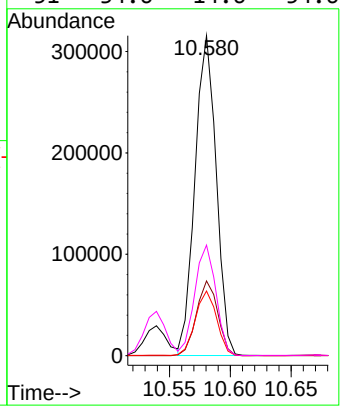


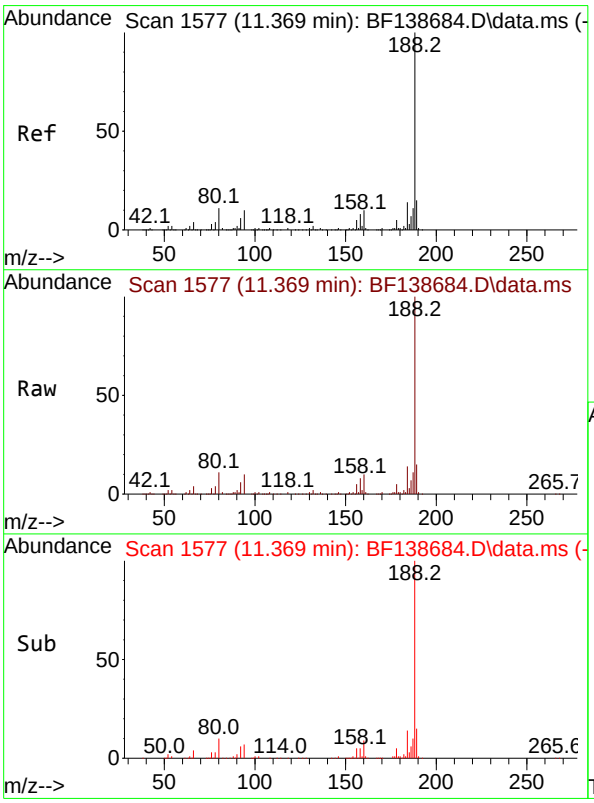

#63
Azobenzene
Concen: 38.662 ng
RT: 10.580 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

Tgt Ion: 77 Resp: 382056

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 182 | 23.4 | 3.4 | 43.4 |
| 105 | 20.2 | 0.2 | 40.2 |
| 51 | 34.6 | 14.6 | 54.6 |

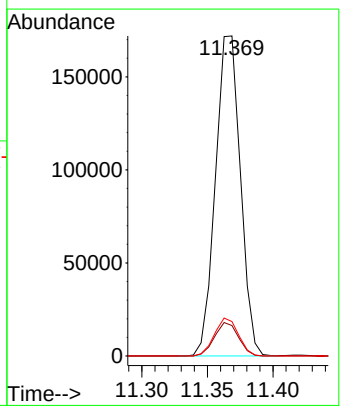


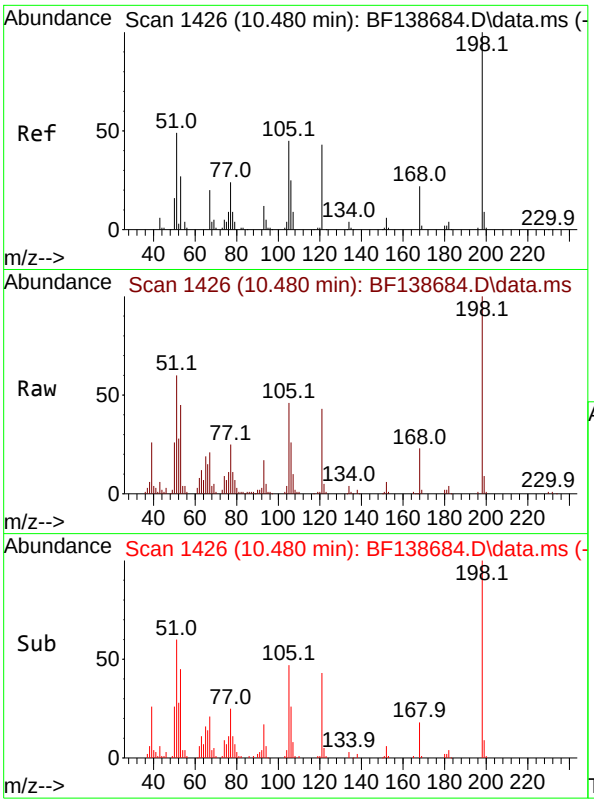




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.369 min Scan# 1577
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:188 Resp: 227513

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 9.5 | 7.6 | 11.4 |
| 80 | 10.7 | 8.6 | 12.8 |



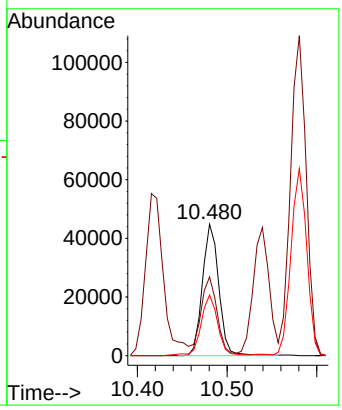


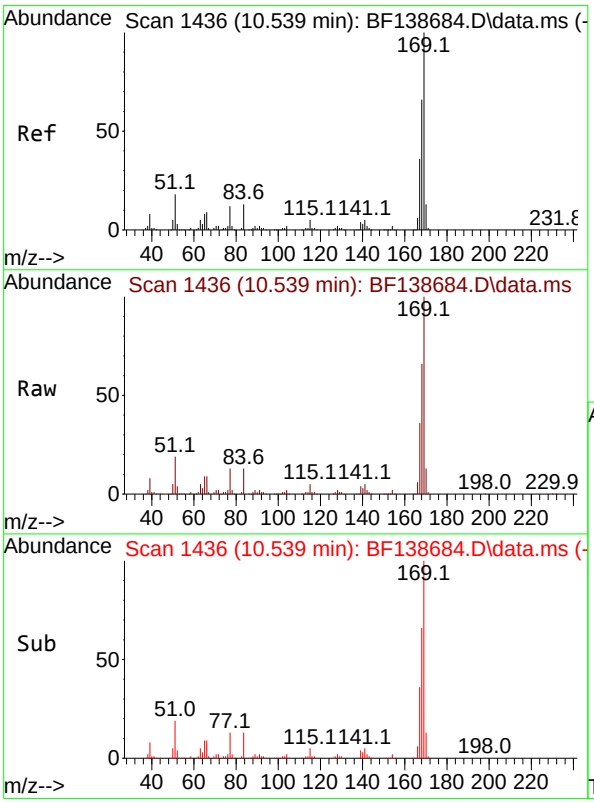

#65
4,6-Dinitro-2-methylphenol
Concen: 40.852 ng
RT: 10.480 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

Tgt Ion:198 Resp: 56704

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 59.9 | 39.9 | 79.9 |
| 105 | 46.1 | 26.1 | 66.1 |

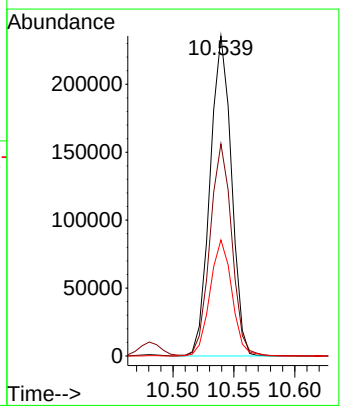


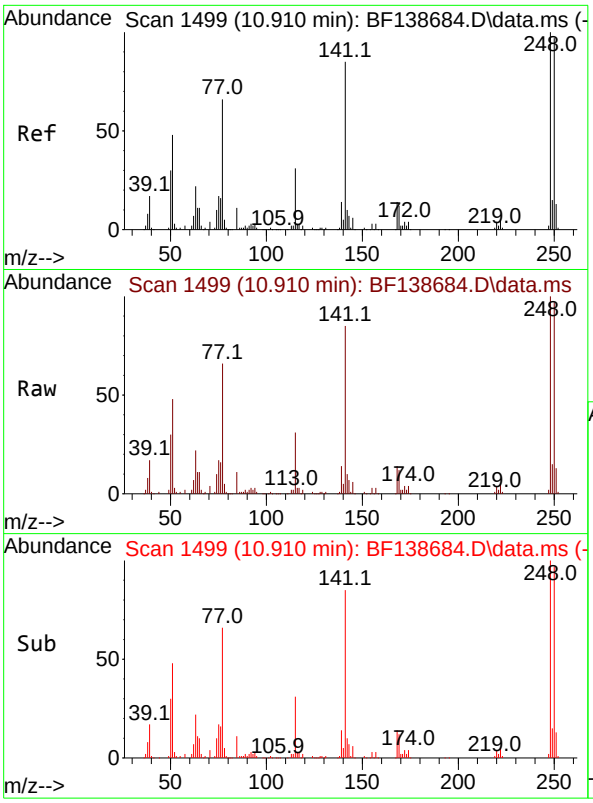




#66
n-Nitrosodiphenylamine
Concen: 40.397 ng
RT: 10.539 min Scan# 1436
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:169 Resp: 287289

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 66.3 | 53.0 | 79.6 |
| 167 | 36.3 | 29.0 | 43.6 |



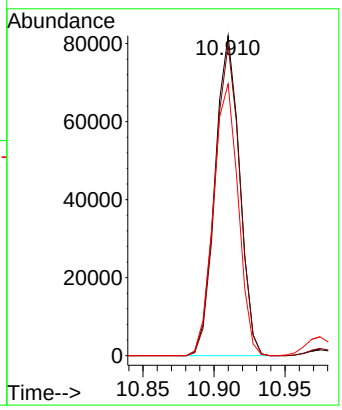


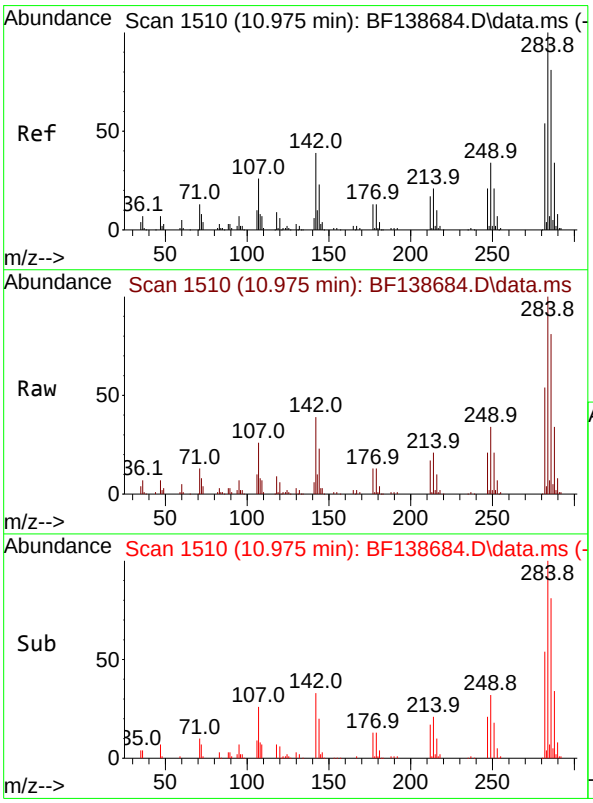

#67
4-Bromophenyl-phenylether
Concen: 40.031 ng
RT: 10.910 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

Tgt Ion:248 Resp: 98606

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 97.1 | 77.7 | 116.5 |
| 141 | 85.0 | 68.0 | 102.0 |

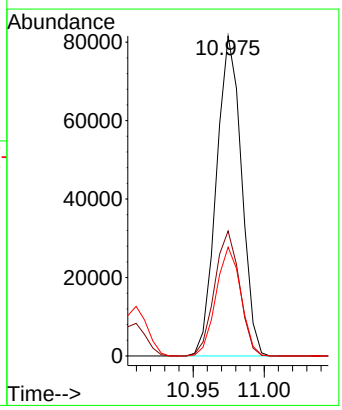


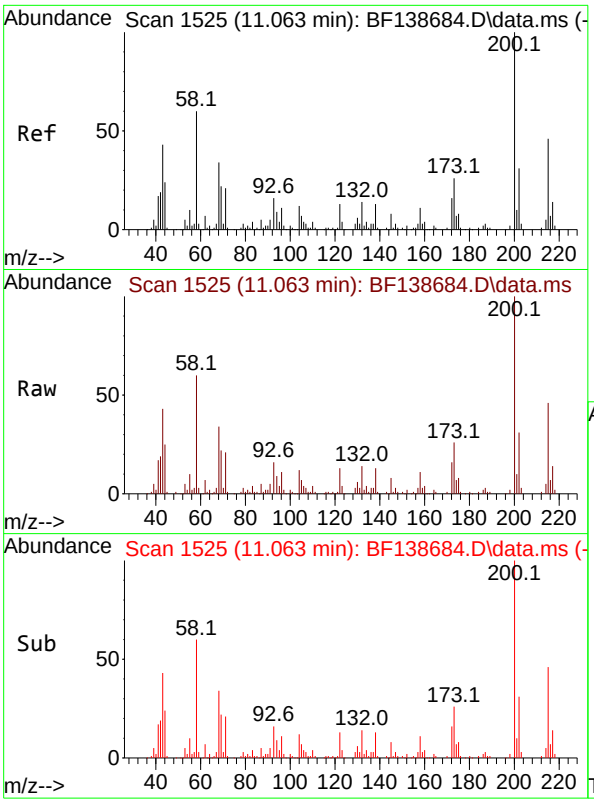




#68
Hexachlorobenzene
Concen: 39.354 ng
RT: 10.975 min Scan# 1510
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:284 Resp: 100089

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 39.1 | 31.3 | 46.9 |
| 249 | 34.0 | 27.2 | 40.8 |



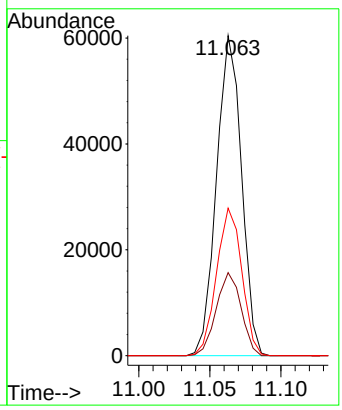


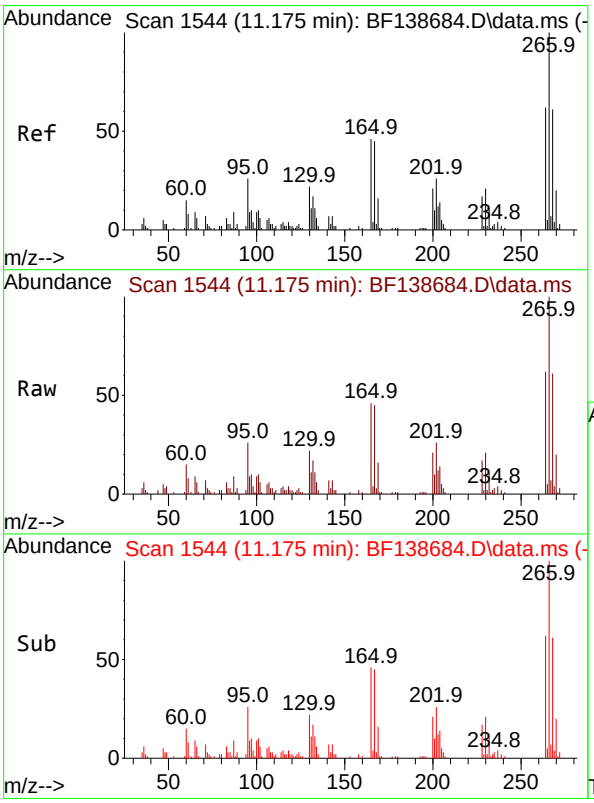

#69
Atrazine
Concen: 40.295 ng
RT: 11.063 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

Tgt Ion:200 Resp: 73933

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 26.0 | 6.0 | 46.0 |
| 215 | 46.1 | 26.1 | 66.1 |

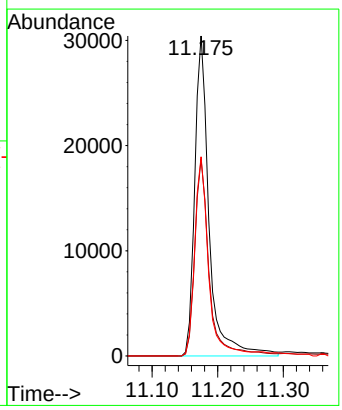


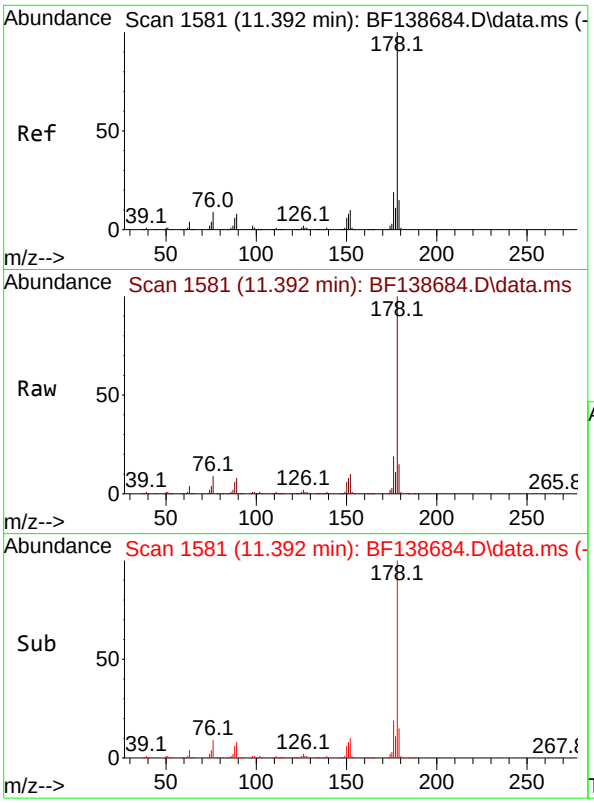




#70
Pentachlorophenol
Concen: 40.533 ng
RT: 11.175 min Scan# 1544
Delta R.T. -0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:266 Resp: 46467

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 268 | 61.5 | 49.2 | 73.8 |
| 264 | 62.2 | 49.8 | 74.6 |



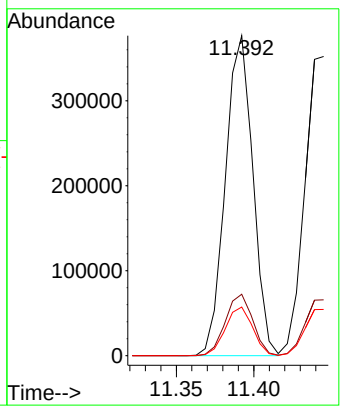


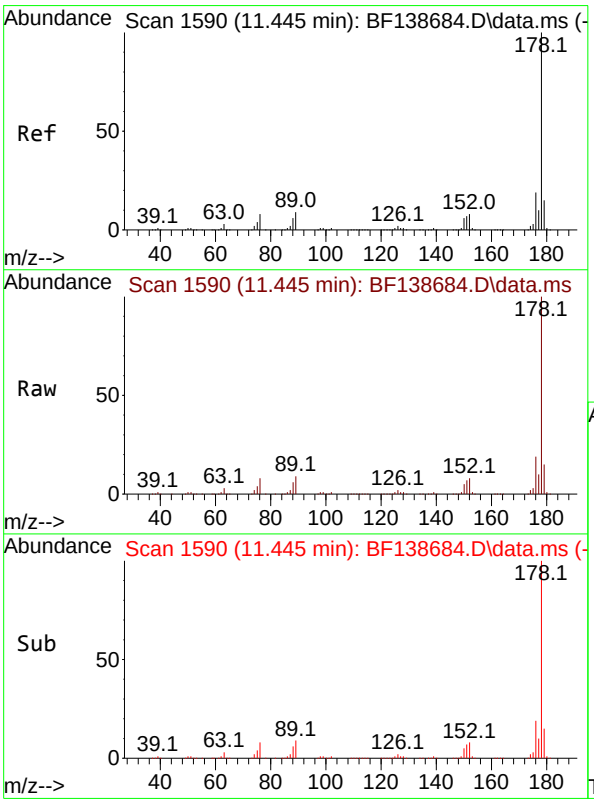

#71
Phenanthrene
Concen: 39.658 ng
RT: 11.392 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

Tgt Ion:178 Resp: 464600

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.2 | 15.4 | 23.0 |
| 179 | 15.2 | 12.2 | 18.2 |

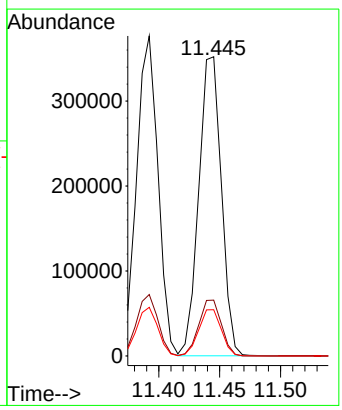


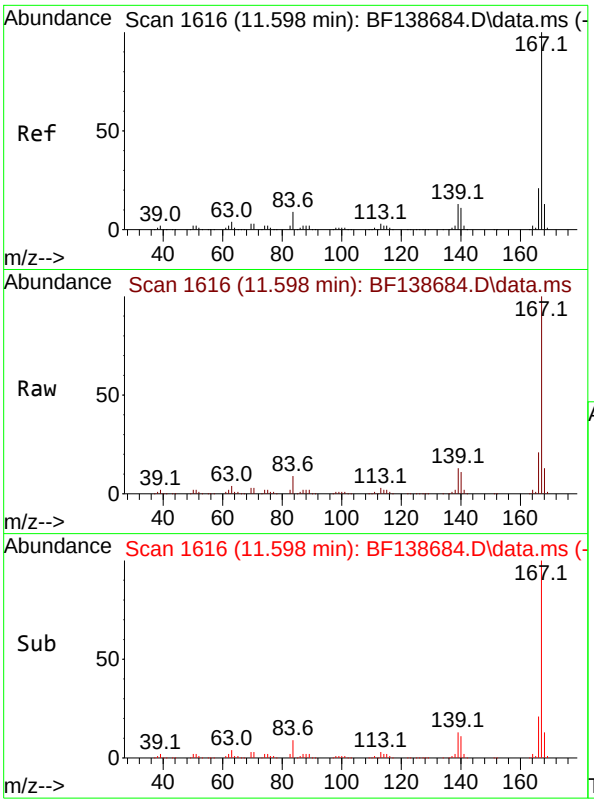




#72
Anthracene
Concen: 39.526 ng
RT: 11.445 min Scan# 1590
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:178 Resp: 456164

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.6 | 14.9 | 22.3 |
| 179 | 15.5 | 12.4 | 18.6 |



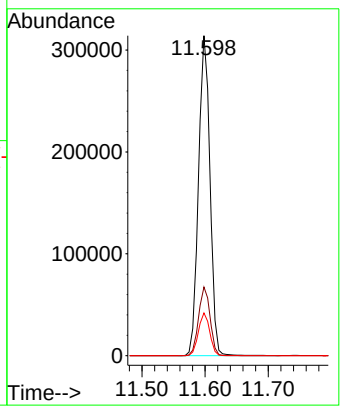


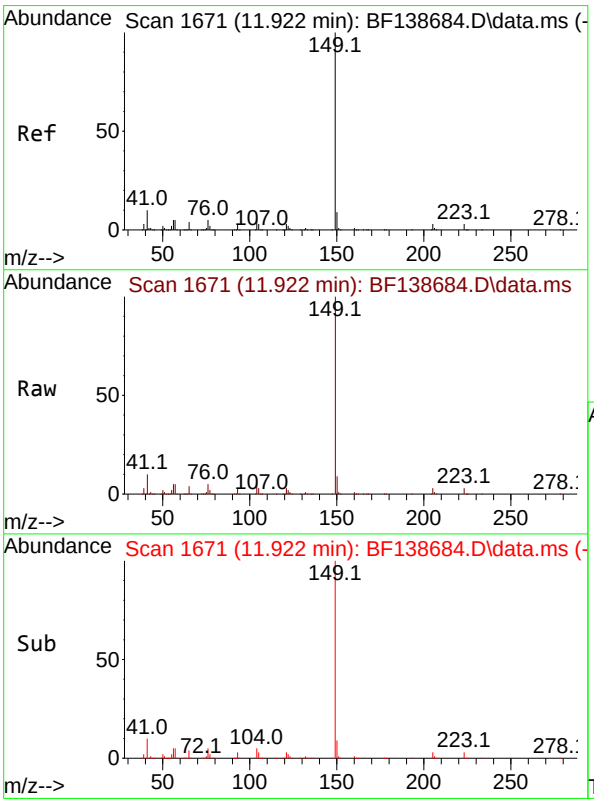

#73
Carbazole
Concen: 39.739 ng
RT: 11.598 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

Tgt Ion:167 Resp: 395675

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 21.5 | 17.2 | 25.8 |
| 139 | 13.3 | 10.6 | 16.0 |

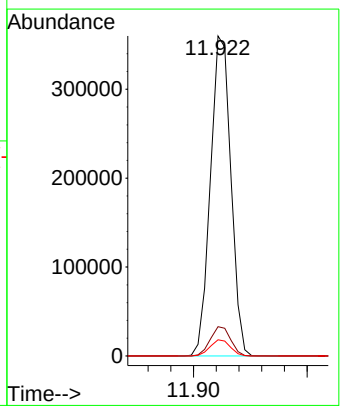


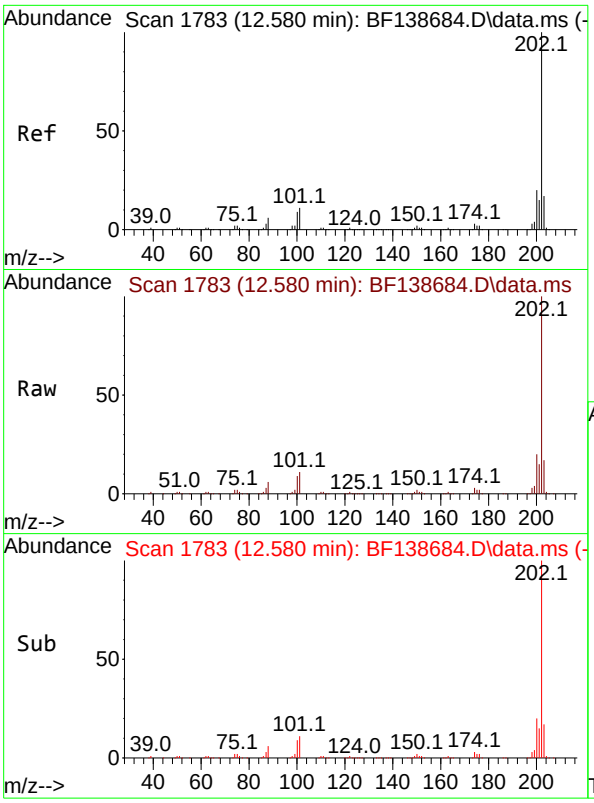




#74
Di-n-butylphthalate
Concen: 40.293 ng
RT: 11.922 min Scan# 1671
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:149 Resp: 451011

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 9.2 | 7.4 | 11.0 |
| 104 | 5.1 | 4.1 | 6.1 |



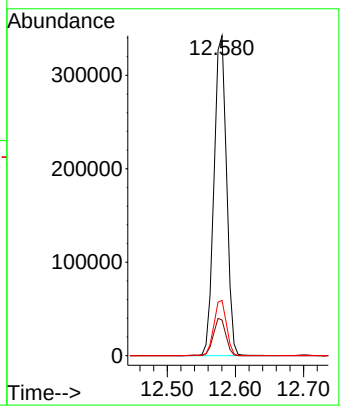


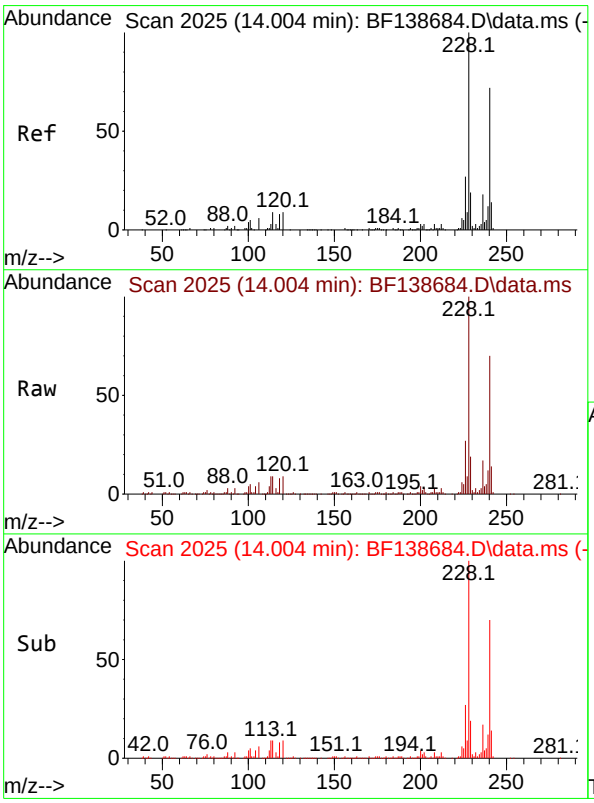

#75
Fluoranthene
Concen: 40.144 ng
RT: 12.580 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

Tgt Ion:202 Resp: 439041

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.2 | 0.0 | 31.2 |
| 203 | 17.3 | 0.0 | 37.3 |

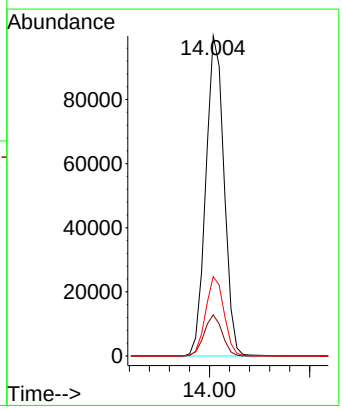


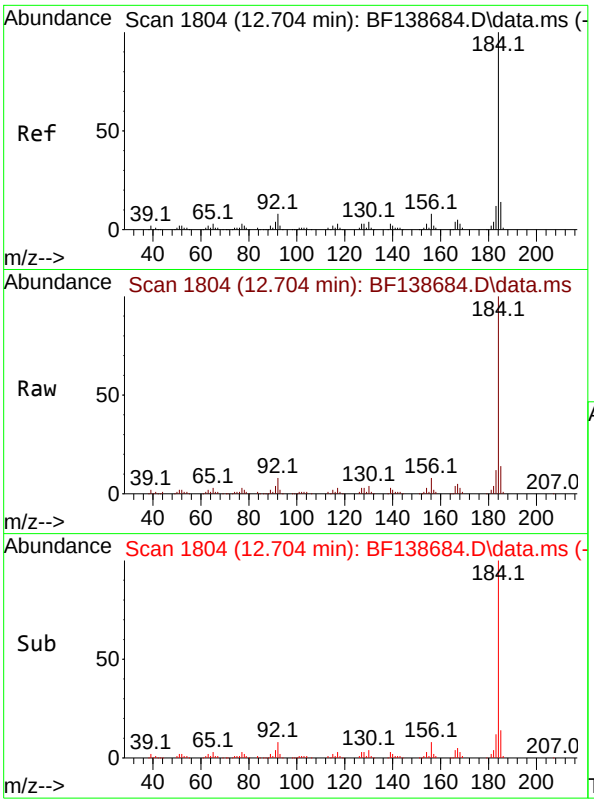




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.004 min Scan# 2025
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:240 Resp: 125928

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 12.8 | 10.2 | 15.4 |
| 236 | 24.8 | 19.8 | 29.8 |



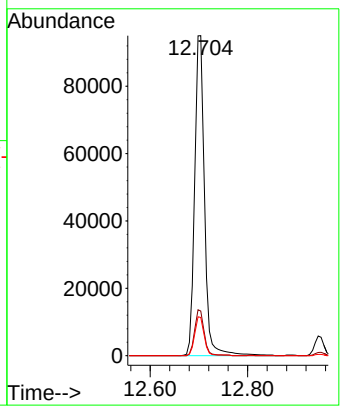


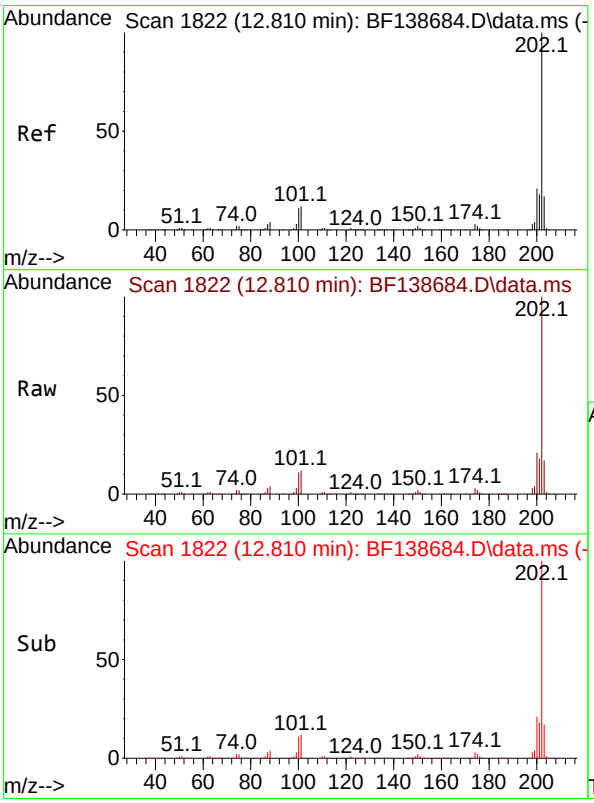

#77
Benzidine
Concen: 44.725 ng
RT: 12.704 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

Tgt Ion:184 Resp: 134710

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 185 | 13.9 | 11.1 | 16.7 |
| 183 | 12.0 | 9.6 | 14.4 |

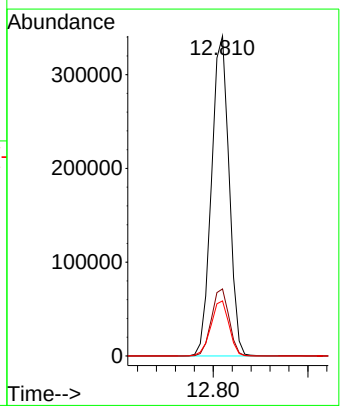


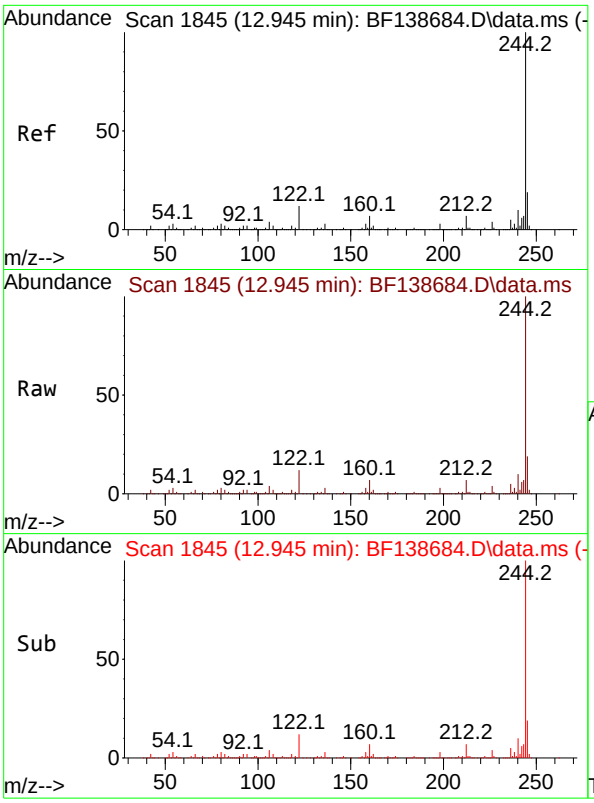




#78
Pyrene
Concen: 37.167 ng
RT: 12.810 min Scan# 1822
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:202 Resp: 440674

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.0 | 16.8 | 25.2 |
| 203 | 17.2 | 13.8 | 20.6 |



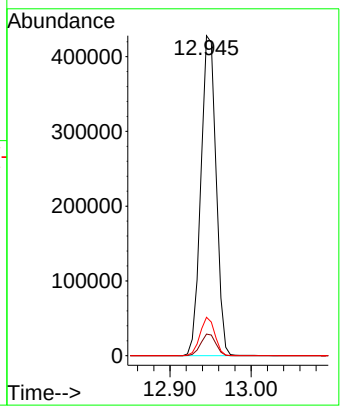


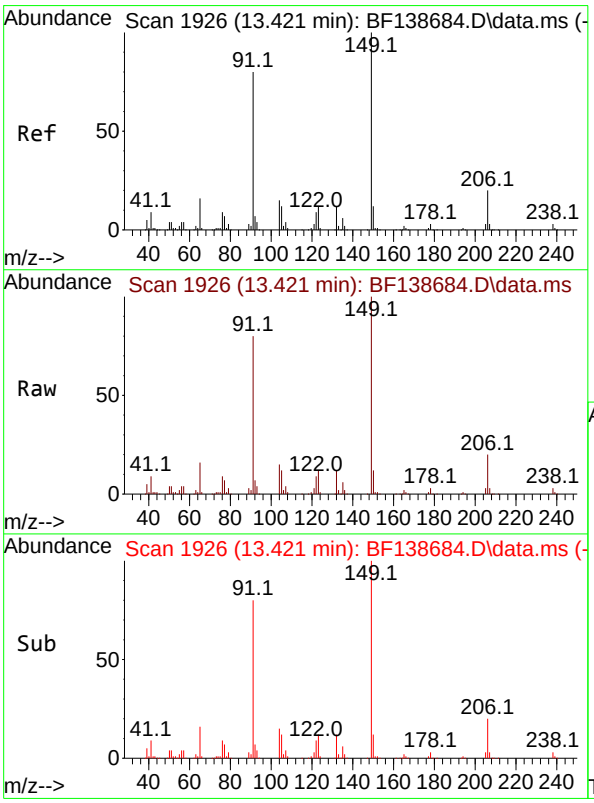

#79
Terphenyl-d14
Concen: 74.045 ng
RT: 12.945 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

Tgt Ion:244 Resp: 556920

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 6.8 | 5.4 | 8.2 |
| 122 | 12.0 | 9.6 | 14.4 |

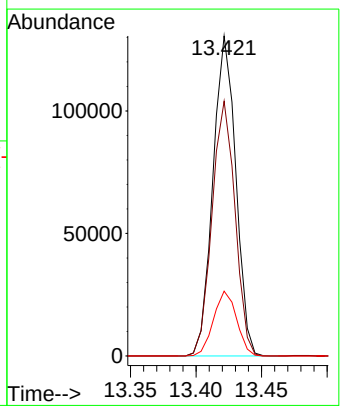


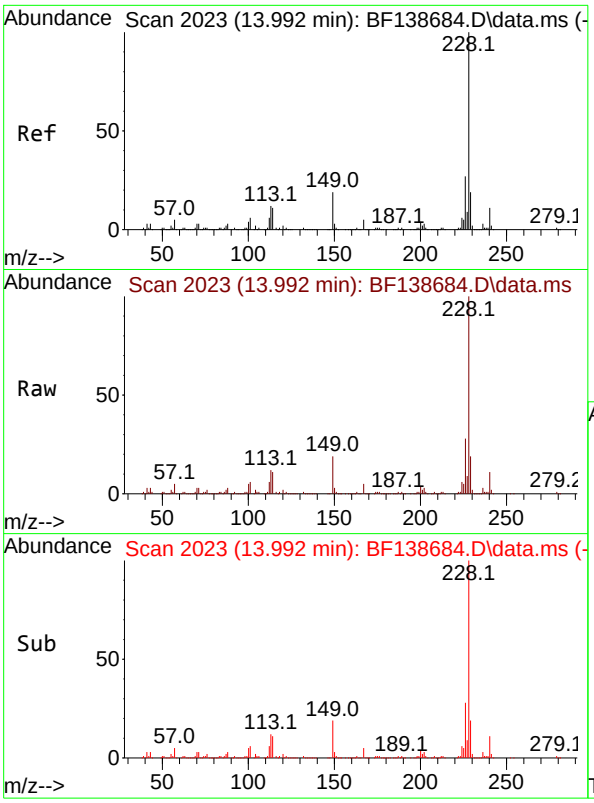




#80
Butylbenzylphthalate
Concen: 41.637 ng
RT: 13.421 min Scan# 1926
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:149 Resp: 158088

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 91 | 79.6 | 63.7 | 95.5 |
| 206 | 20.2 | 16.2 | 24.2 |



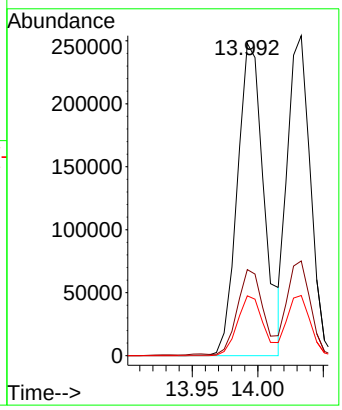


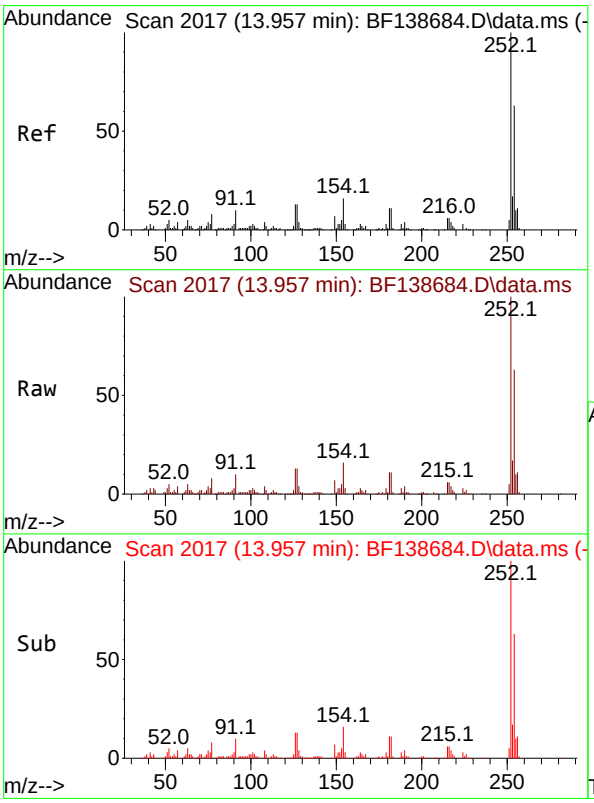

#81
Benzo(a)anthracene
Concen: 40.528 ng
RT: 13.992 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

Tgt Ion:228 Resp: 351448

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.6 | 22.1 | 33.1 |
| 229 | 19.2 | 15.4 | 23.0 |

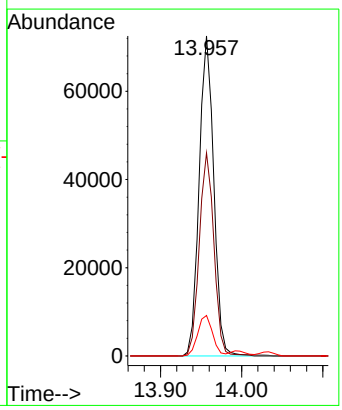


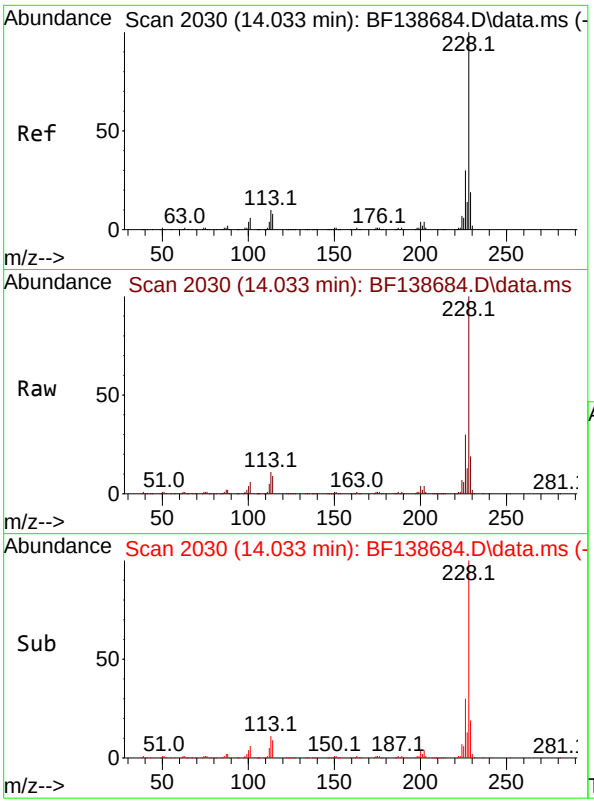




#82
3,3'-Dichlorobenzidine
Concen: 40.825 ng
RT: 13.957 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:252 Resp: 90595

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 63.5 | 50.8 | 76.2 |
| 126 | 12.7 | 10.2 | 15.2 |



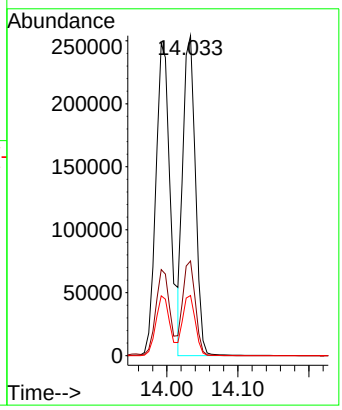


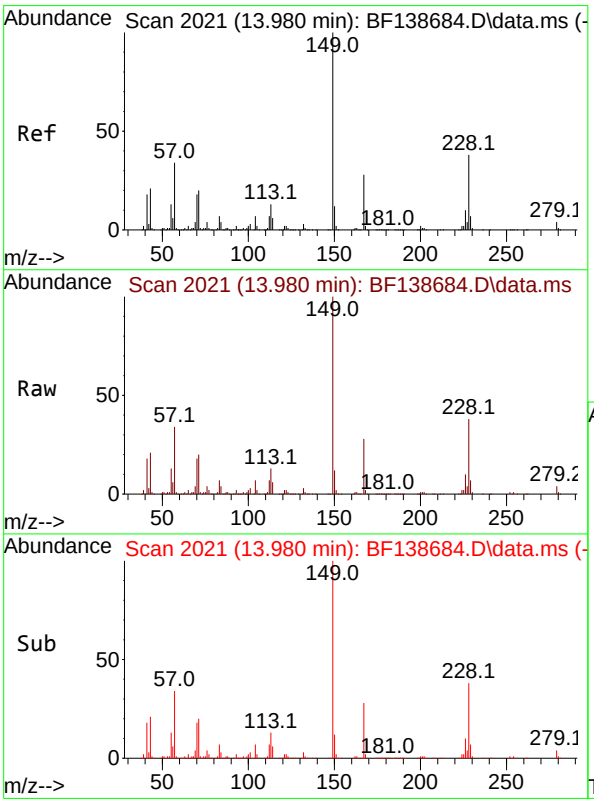

#83
Chrysene
Concen: 39.343 ng
RT: 14.033 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

Tgt Ion:228 Resp: 307799

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.6 | 23.7 | 35.5 |
| 229 | 18.8 | 15.0 | 22.6 |

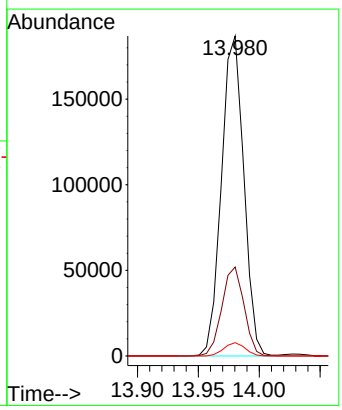


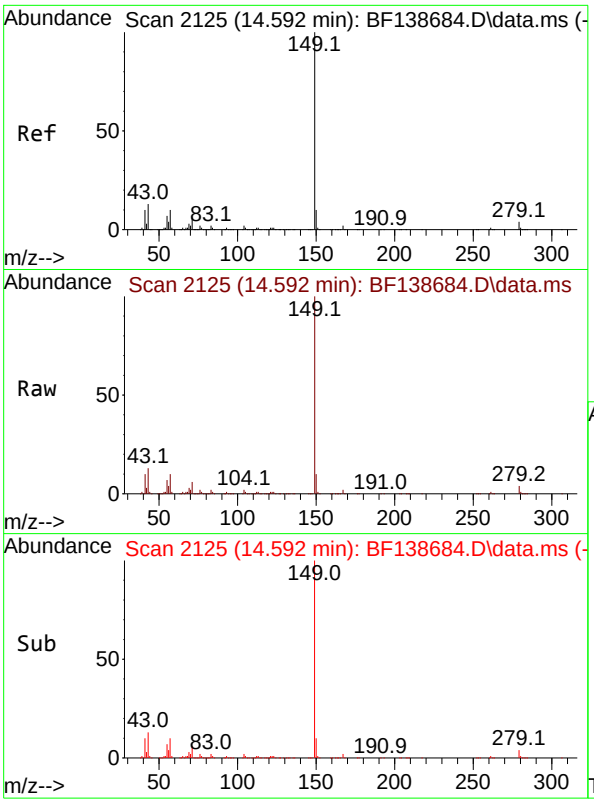




#84
Bis(2-ethylhexyl)phthalate
Concen: 42.951 ng
RT: 13.980 min Scan# 2021
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:149 Resp: 238798

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 27.8 | 22.2 | 33.4 |
| 279 | 4.2 | 3.4 | 5.0 |



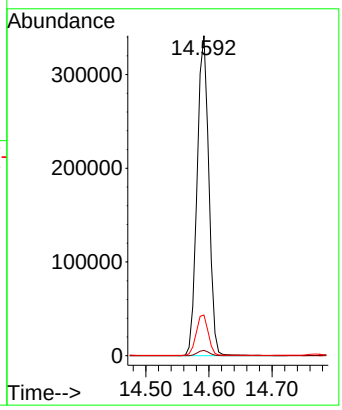


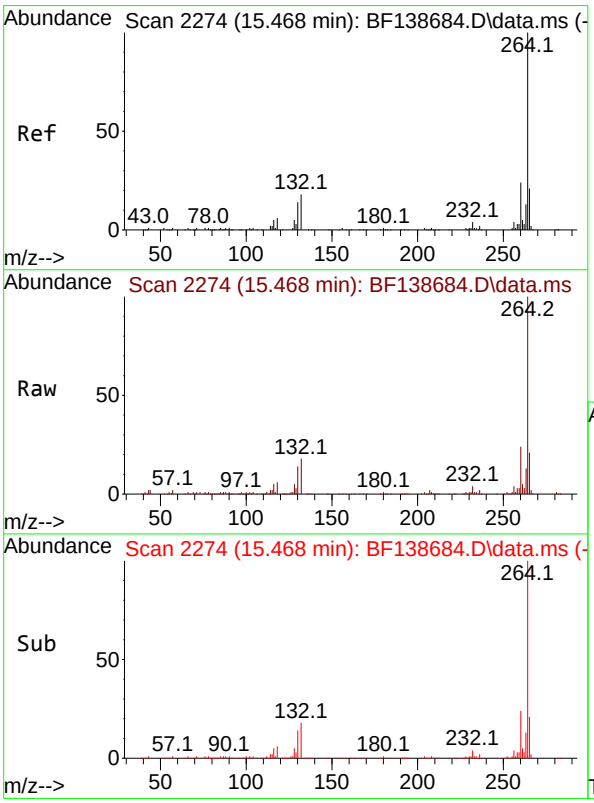

#85
Di-n-octyl phthalate
Concen: 42.690 ng
RT: 14.592 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

Tgt Ion:149 Resp: 439133

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 1.7 | 1.4 | 2.0 |
| 43 | 13.0 | 10.4 | 15.6 |

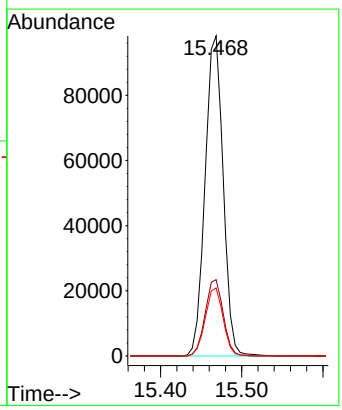


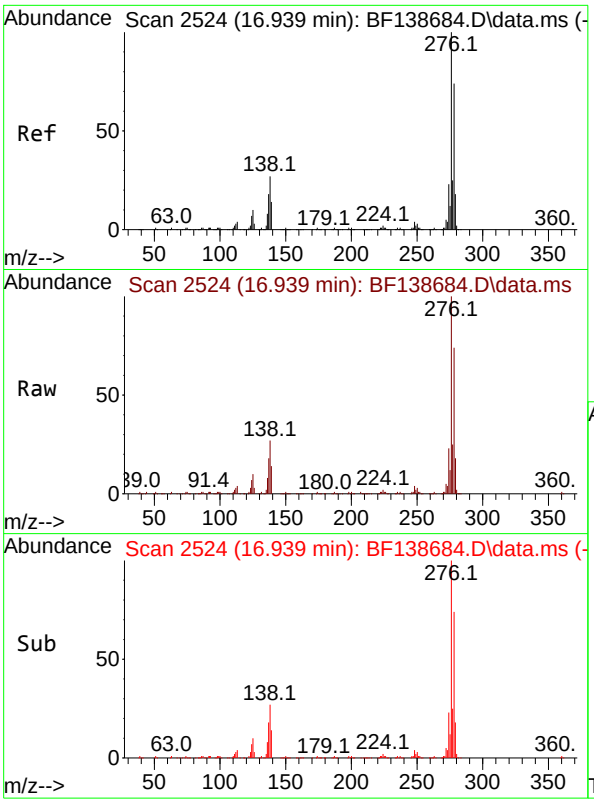




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.468 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:264 Resp: 151531

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.8 | 19.0 | 28.6 |
| 265 | 21.3 | 17.0 | 25.6 |



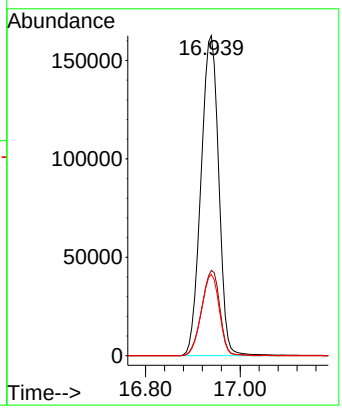


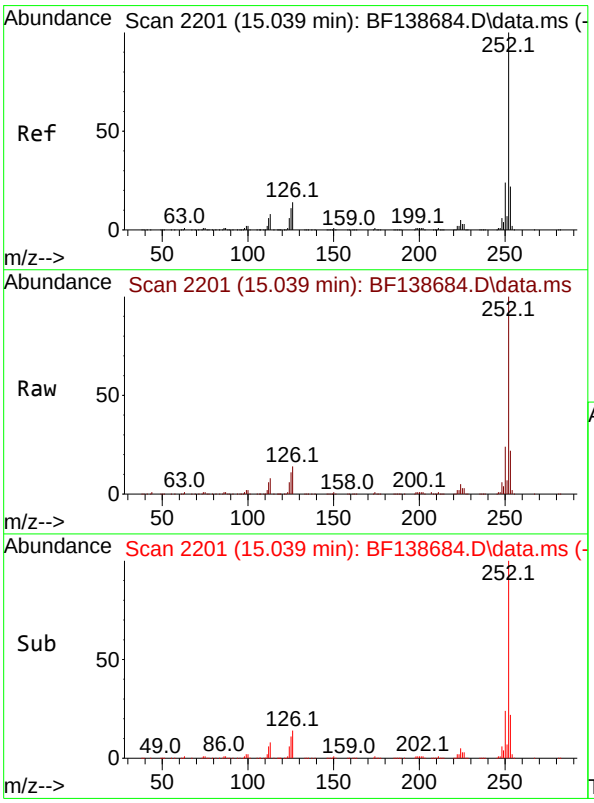

#87
Indeno(1,2,3-cd)pyrene
Concen: 38.929 ng
RT: 16.939 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

Tgt Ion:276 Resp: 422742

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 27.3 | 21.8 | 32.8 |
| 277 | 25.7 | 20.6 | 30.8 |

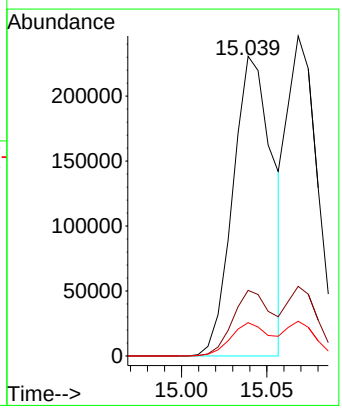


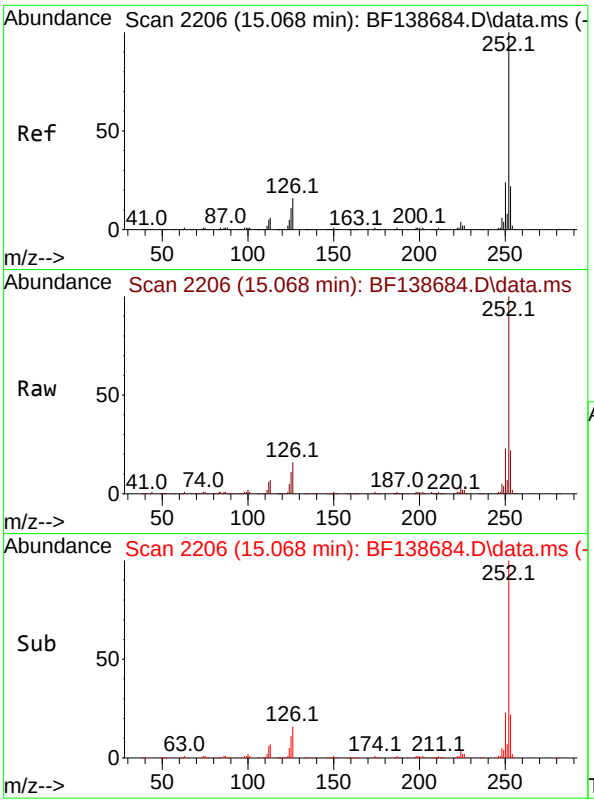




#88
Benzo(b)fluoranthene
Concen: 39.653 ng
RT: 15.039 min Scan# 2201
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:252 Resp: 372478

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.9 | 17.5 | 26.3 |
| 125 | 11.1 | 8.9 | 13.3 |



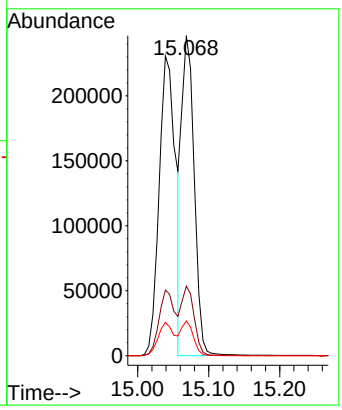


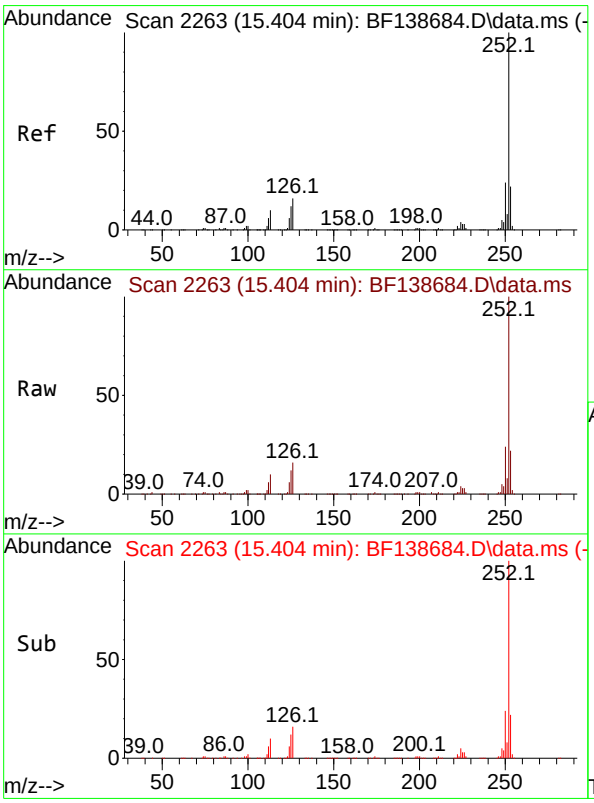

#89
Benzo(k)fluoranthene
Concen: 37.326 ng
RT: 15.068 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

Tgt Ion:252 Resp: 303576

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.7 | 17.4 | 26.0 |
| 125 | 10.8 | 8.6 | 13.0 |

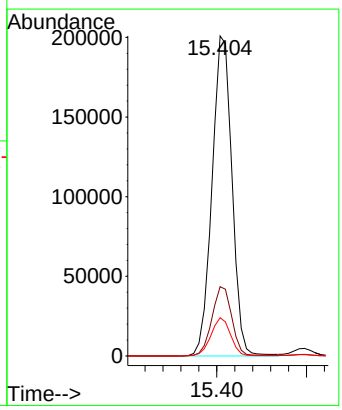


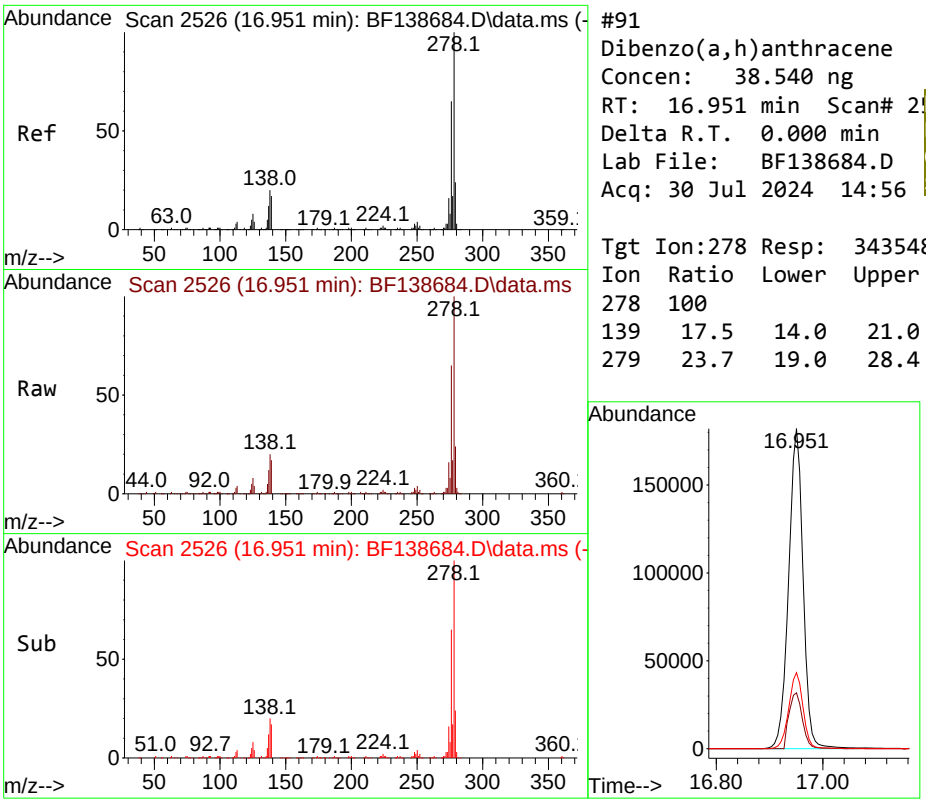




#90
Benzo(a)pyrene
Concen: 39.228 ng
RT: 15.404 min Scan# 2263
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:252 Resp: 309949

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.6 | 17.3 | 25.9 |
| 125 | 11.9 | 9.5 | 14.3 |





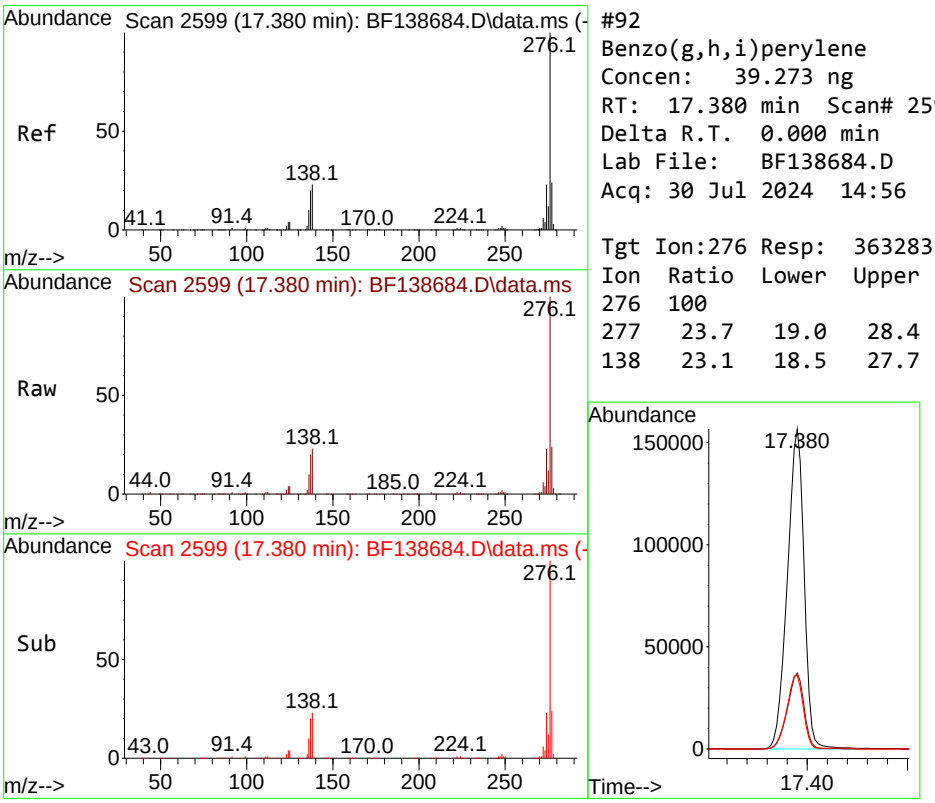

#91
Dibenzo(a,h)anthracene
Concen: 38.540 ng
RT: 16.951 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

Tgt Ion:278 Resp: 343548

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 17.5 | 14.0 | 21.0 |
| 279 | 23.7 | 19.0 | 28.4 |




#92
Benzo(g,h,i)perylene
Concen: 39.273 ng
RT: 17.380 min Scan# 2599
Delta R.T. 0.000 min
Lab File: BF138684.D
Acq: 30 Jul 2024 14:56

Tgt Ion:276 Resp: 363283

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 23.7 | 19.0 | 28.4 |
| 138 | 23.1 | 18.5 | 27.7 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138685.D
Acq On : 30 Jul 2024 15:27
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Quant Time: Jul 30 17:45:37 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:38:59 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.845 | 152 | 74850 | 20.000 | ng | | 0.00 |
| 21) Naphthalene-d8 | 8.128 | 136 | 297858 | 20.000 | ng | | 0.00 |
| 39) Acenaphthene-d10 | 9.880 | 164 | 152426 | 20.000 | ng | | 0.00 |
| 64) Phenanthrene-d10 | 11.369 | 188 | 237060 | 20.000 | ng | | 0.00 |
| 76) Chrysene-d12 | 14.004 | 240 | 124208 | 20.000 | ng | | 0.00 |
| 86) Perylene-d12 | 15.468 | 264 | 151751 | 20.000 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 5) 2-Fluorophenol | 5.469 | 112 | 465439 | 95.989 | ng | | 0.00 |
| 7) Phenol-d6 | 6.487 | 99 | 619012 | 95.084 | ng | | 0.00 |
| 23) Nitrobenzene-d5 | 7.416 | 82 | 585266 | 96.067 | ng | | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.675 | 330 | 119062 | 95.358 | ng | | 0.00 |
| 45) 2-Fluorobiphenyl | 9.204 | 172 | 960645 | 94.693 | ng | | 0.00 |
| 79) Terphenyl-d14 | 12.951 | 244 | 665833 | 89.751 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.587 | 88 | 104204 | 49.086 | ng | | 98 |
| 3) Pyridine | 3.340 | 79 | 258280 | 50.224 | ng | | 98 |
| 4) n-Nitrosodimethylamine | 3.299 | 42 | 150372 | 49.096 | ng | | 97 |
| 6) Aniline | 6.510 | 93 | 278162 | 47.911 | ng | # | 77 |
| 8) 2-Chlorophenol | 6.634 | 128 | 244752 | 47.976 | ng | | 97 |
| 9) Benzaldehyde | 6.398 | 77 | 161301 | 41.333 | ng | | 99 |
| 10) Phenol | 6.504 | 94 | 325498 | 47.487 | ng | | 90 |
| 11) bis(2-Chloroethyl)ether | 6.587 | 93 | 252329 | 47.838 | ng | | 99 |
| 12) 1,3-Dichlorobenzene | 6.787 | 146 | 270376 | 47.346 | ng | | 99 |
| 13) 1,4-Dichlorobenzene | 6.863 | 146 | 277374 | 48.130 | ng | | 99 |
| 14) 1,2-Dichlorobenzene | 7.016 | 146 | 254151 | 47.188 | ng | | 99 |
| 15) Benzyl Alcohol | 6.992 | 79 | 227061 | 48.392 | ng | | 99 |
| 16) 2,2'-oxybis(1-Chloropr... | 7.122 | 45 | 432504 | 47.646 | ng | | 96 |
| 17) 2-Methylphenol | 7.104 | 107 | 200680 | 47.638 | ng | | 99 |
| 18) Hexachloroethane | 7.357 | 117 | 103651 | 47.780 | ng | | 98 |
| 19) n-Nitroso-di-n-propyla... | 7.263 | 70 | 181478 | 46.154 | ng | | 98 |
| 20) 3+4-Methylphenols | 7.263 | 107 | 248467 | 45.970 | ng | | 91 |
| 22) Acetophenone | 7.257 | 105 | 340314 | 46.663 | ng | | 99 |
| 24) Nitrobenzene | 7.434 | 77 | 297595 | 48.005 | ng | | 97 |
| 25) Isophorone | 7.669 | 82 | 487636 | 46.876 | ng | | 99 |
| 26) 2-Nitrophenol | 7.745 | 139 | 130074 | 48.769 | ng | | 99 |
| 27) 2,4-Dimethylphenol | 7.787 | 122 | 154221 | 48.328 | ng | | 100 |
| 28) bis(2-Chloroethoxy)met... | 7.881 | 93 | 299695 | 47.308 | ng | | 100 |
| 29) 2,4-Dichlorophenol | 7.992 | 162 | 196641 | 47.954 | ng | | 99 |
| 30) 1,2,4-Trichlorobenzene | 8.069 | 180 | 226165 | 47.793 | ng | | 98 |
| 31) Naphthalene | 8.151 | 128 | 744393 | 47.479 | ng | | 100 |
| 32) Benzoic acid | 7.916 | 122 | 123714 | 49.340 | ng | | 97 |
| 33) 4-Chloroaniline | 8.204 | 127 | 250620 | 47.621 | ng | | 98 |
| 34) Hexachlorobutadiene | 8.263 | 225 | 138993 | 48.493 | ng | | 98 |
| 35) Caprolactam | 8.581 | 113 | 56708 | 46.347 | ng | | 96 |
| 36) 4-Chloro-3-methylphenol | 8.686 | 107 | 216280 | 46.151 | ng | | 99 |
| 37) 2-Methylnaphthalene | 8.839 | 142 | 461125 | 46.570 | ng | | 100 |
| 38) 1-Methylnaphthalene | 8.939 | 142 | 450948 | 46.476 | ng | | 99 |
| 40) 1,2,4,5-Tetrachloroben... | 9.004 | 216 | 206585 | 48.789 | ng | | 99 |
| 41) Hexachlorocyclopentadiene | 8.986 | 237 | 52700 | 49.894 | ng | | 97 |
| 43) 2,4,6-Trichlorophenol | 9.122 | 196 | 125832 | 48.741 | ng | | 98 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138685.D
Acq On : 30 Jul 2024 15:27
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Quant Time: Jul 30 17:45:37 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:38:59 2024
Response via : Initial Calibration

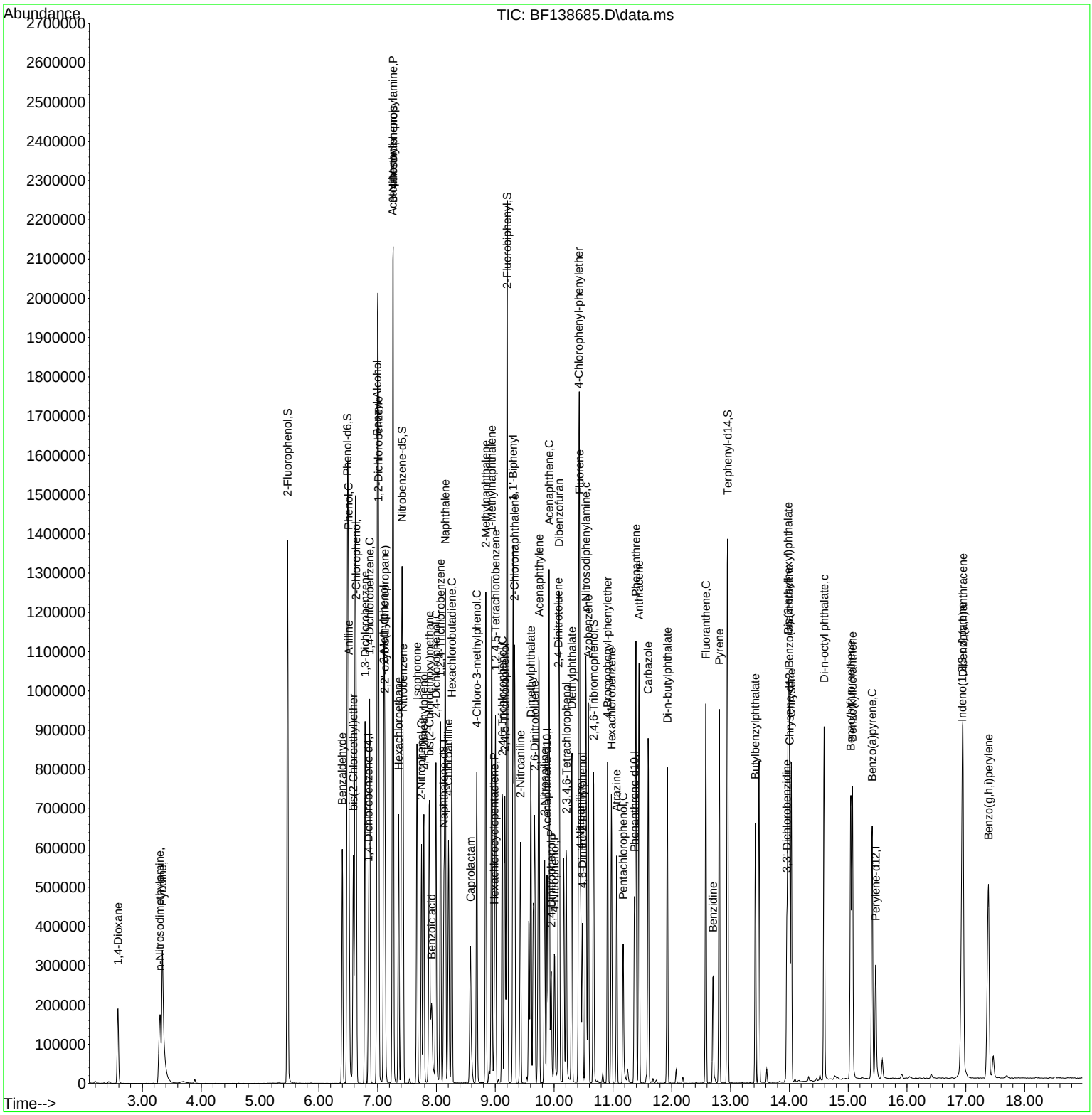
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 9.163 | 196 | 137518 | 48.726 | ng | 98 |
| 46) 1,1'-Biphenyl | 9.304 | 154 | 574292 | 48.107 | ng | 100 |
| 47) 2-Chloronaphthalene | 9.328 | 162 | 426264 | 48.011 | ng | 98 |
| 48) 2-Nitroaniline | 9.428 | 65 | 144739 | 48.087 | ng | 99 |
| 49) Acenaphthylene | 9.745 | 152 | 599464 | 47.605 | ng | 99 |
| 50) Dimethylphthalate | 9.604 | 163 | 460459 | 47.244 | ng | 99 |
| 51) 2,6-Dinitrotoluene | 9.669 | 165 | 105483 | 47.956 | ng | 96 |
| 52) Acenaphthene | 9.916 | 154 | 399608 | 47.208 | ng | 100 |
| 53) 3-Nitroaniline | 9.839 | 138 | 108951 | 47.915 | ng | 99 |
| 54) 2,4-Dinitrophenol | 9.951 | 184 | 49980 | 49.361 | ng | 96 |
| 55) Dibenzofuran | 10.086 | 168 | 565582 | 47.333 | ng | 99 |
| 56) 4-Nitrophenol | 10.010 | 139 | 66924 | 48.943 | ng | 94 |
| 57) 2,4-Dinitrotoluene | 10.075 | 165 | 130457 | 46.487 | ng | 95 |
| 58) Fluorene | 10.433 | 166 | 444469 | 46.711 | ng | 99 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.210 | 232 | 106594 | 49.402 | ng | 99 |
| 60) Diethylphthalate | 10.304 | 149 | 424041 | 45.886 | ng | 99 |
| 61) 4-Chlorophenyl-phenyle... | 10.422 | 204 | 220930 | 47.209 | ng | 99 |
| 62) 4-Nitroaniline | 10.451 | 138 | 101171 | 46.819 | ng | 100 |
| 63) Azobenzene | 10.580 | 77 | 479859 | 46.818 | ng | 100 |
| 65) 4,6-Dinitro-2-methylph... | 10.486 | 198 | 72667 | 50.244 | ng | 95 |
| 66) n-Nitrosodiphenylamine | 10.539 | 169 | 359408 | 48.503 | ng | 99 |
| 67) 4-Bromophenyl-phenylether | 10.910 | 248 | 124874 | 48.653 | ng | 99 |
| 68) Hexachlorobenzene | 10.975 | 284 | 126744 | 47.827 | ng | 99 |
| 69) Atrazine | 11.063 | 200 | 90580 | 47.380 | ng | 98 |
| 70) Pentachlorophenol | 11.175 | 266 | 61385 | 51.390 | ng | 99 |
| 71) Phenanthrene | 11.392 | 178 | 575040 | 47.109 | ng | 100 |
| 72) Anthracene | 11.445 | 178 | 571666 | 47.539 | ng | 99 |
| 73) Carbazole | 11.598 | 167 | 480092 | 46.275 | ng | 99 |
| 74) Di-n-butylphthalate | 11.927 | 149 | 559303 | 47.956 | ng | 99 |
| 75) Fluoranthene | 12.580 | 202 | 533004 | 46.772 | ng | 99 |
| 77) Benzidine | 12.704 | 184 | 145955 | 49.129 | ng | 99 |
| 78) Pyrene | 12.810 | 202 | 525950 | 44.974 | ng | 99 |
| 80) Butylbenzylphthalate | 13.421 | 149 | 193143 | 51.575 | ng | 99 |
| 81) Benzo(a)anthracene | 13.998 | 228 | 419449 | 49.040 | ng | 99 |
| 82) 3,3'-Dichlorobenzidine | 13.957 | 252 | 107444 | 49.088 | ng | 98 |
| 83) Chrysene | 14.033 | 228 | 373417 | 48.391 | ng | 98 |
| 84) Bis(2-ethylhexyl)phtha... | 13.980 | 149 | 293490 | 53.519 | ng | 99 |
| 85) Di-n-octyl phthalate | 14.592 | 149 | 540838 | 53.306 | ng | 100 |
| 87) Indeno(1,2,3-cd)pyrene | 16.939 | 276 | 533298 | 49.039 | ng | 99 |
| 88) Benzo(b)fluoranthene | 15.045 | 252 | 447896 | 47.613 | ng | 99 |
| 89) Benzo(k)fluoranthene | 15.074 | 252 | 402008 | 49.358 | ng | 99 |
| 90) Benzo(a)pyrene | 15.410 | 252 | 389298 | 49.199 | ng | 100 |
| 91) Dibenzo(a,h)anthracene | 16.951 | 278 | 432604 | 48.460 | ng | 99 |
| 92) Benzo(g,h,i)perylene | 17.386 | 276 | 453886 | 48.997 | ng | 100 |

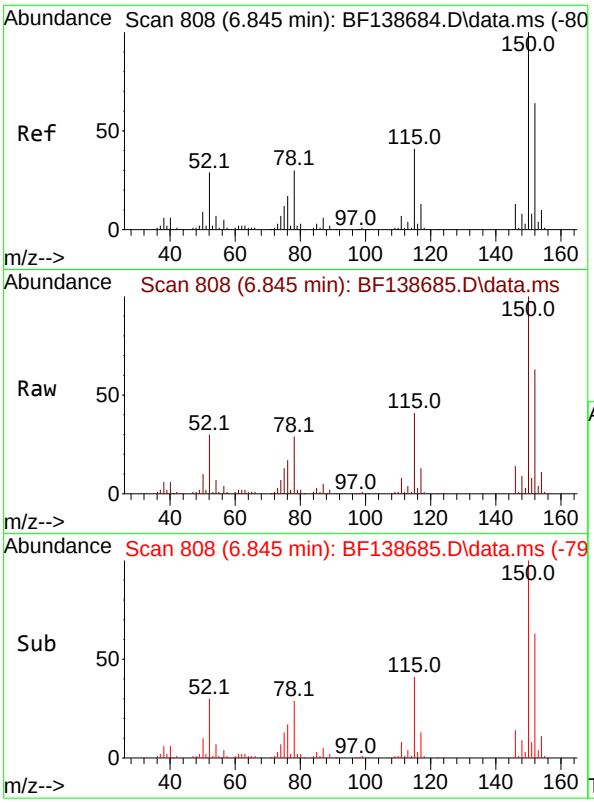
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138685.D
Acq On : 30 Jul 2024 15:27
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Quant Time: Jul 30 17:45:37 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:38:59 2024
Response via : Initial Calibration



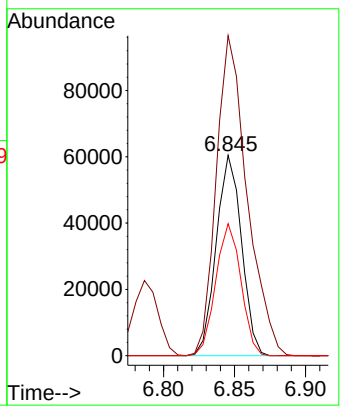


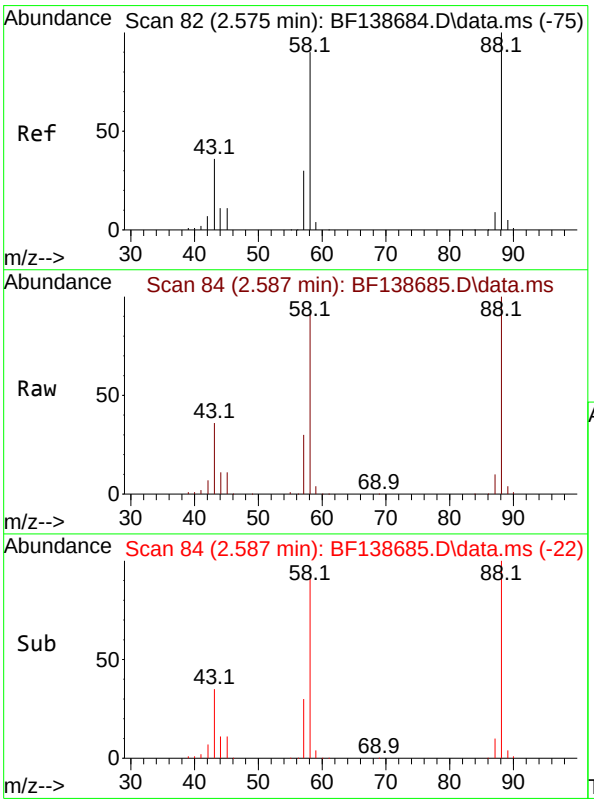

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.845 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:152 Resp: 74850

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 159.8 | 126.0 | 189.0 |
| 115 | 65.9 | 51.7 | 77.5 |

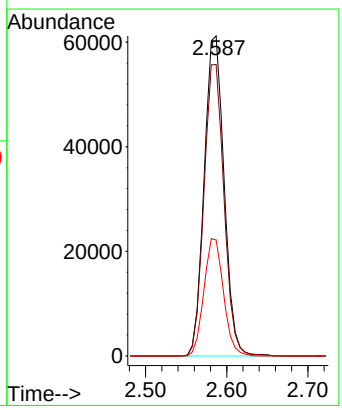


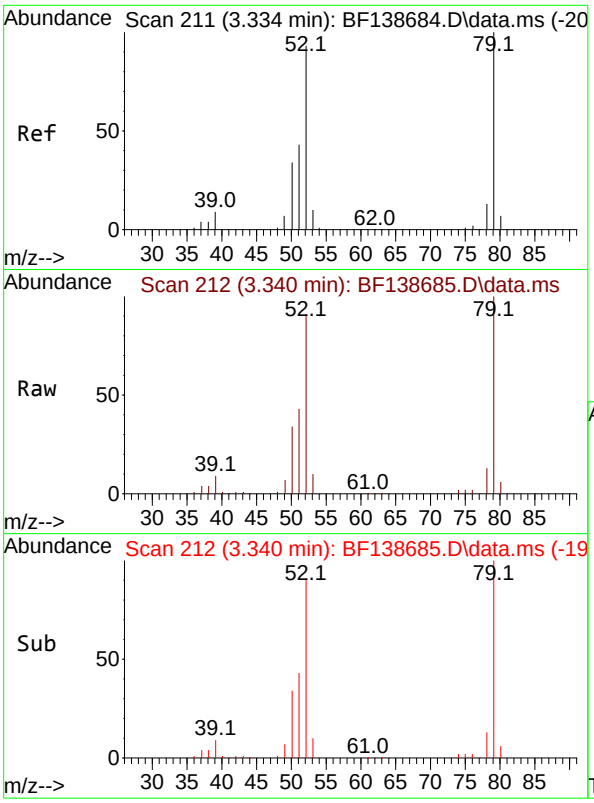




#2
1,4-Dioxane
Concen: 49.086 ng
RT: 2.587 min Scan# 84
Delta R.T. 0.012 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion: 88 Resp: 104204

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 91.5 | 71.6 | 107.4 |
| 43 | 36.1 | 28.7 | 43.1 |



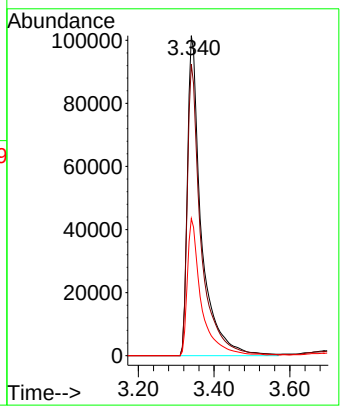


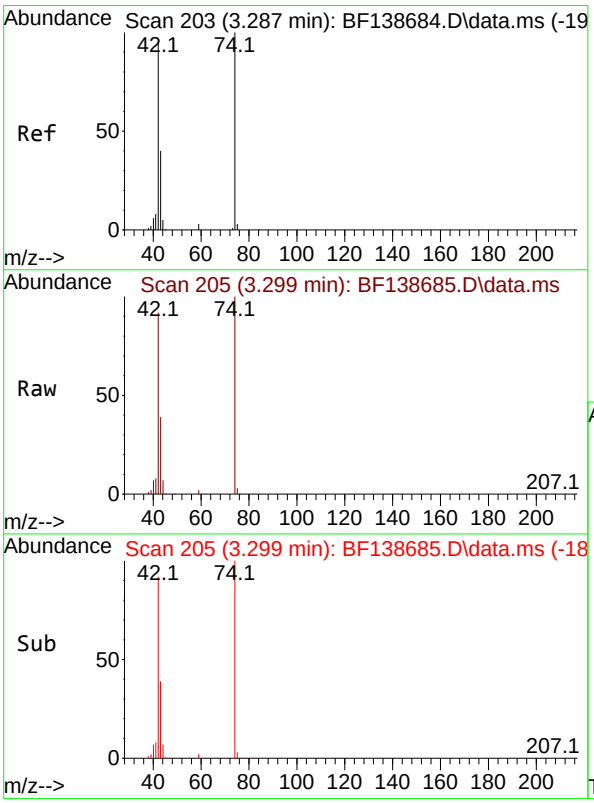

#3
Pyridine
Concen: 50.224 ng
RT: 3.340 min Scan# 21
Delta R.T. 0.006 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion: 79 Resp: 258280

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 91.0 | 74.7 | 112.1 |
| 51 | 42.9 | 34.6 | 51.8 |

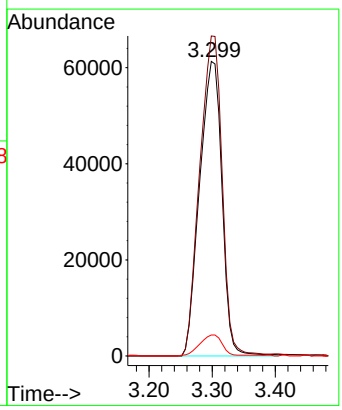


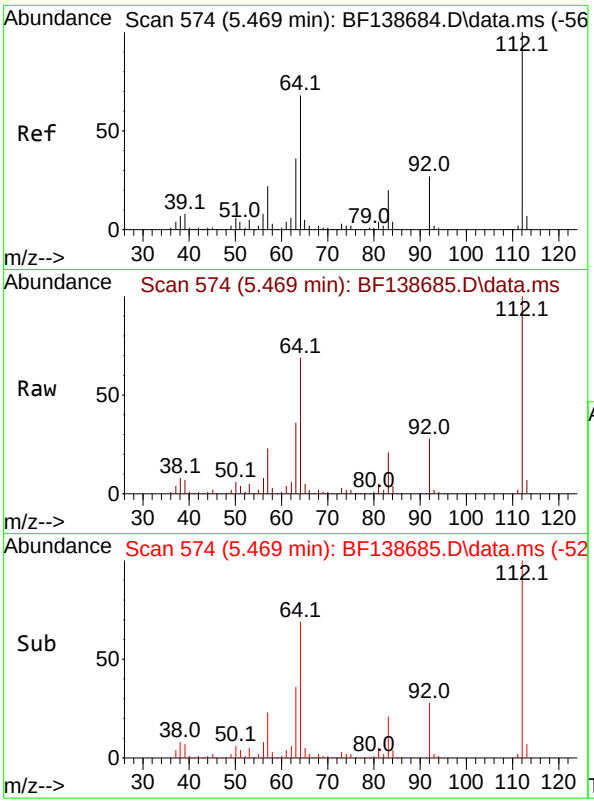




#4
n-Nitrosodimethylamine
Concen: 49.096 ng
RT: 3.299 min Scan# 205
Delta R.T. 0.012 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion: 42 Resp: 150372

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 108.7 | 84.2 | 126.4 |
| 44 | 7.1 | 4.9 | 7.3 |



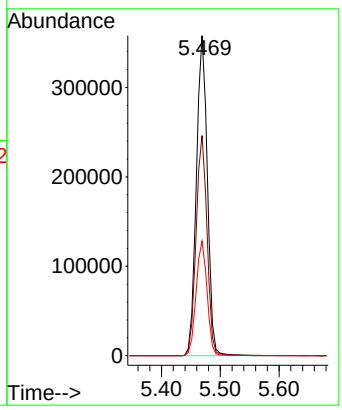


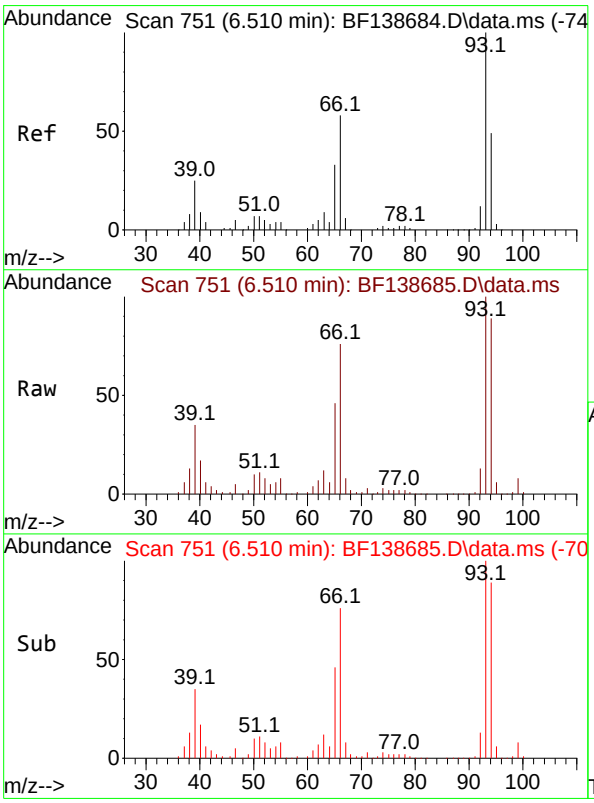

#5
2-Fluorophenol
Concen: 95.989 ng
RT: 5.469 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:112 Resp: 465439

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 68.8 | 54.2 | 81.4 |
| 63 | 35.8 | 28.7 | 43.1 |

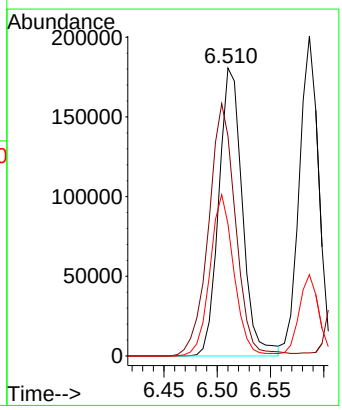


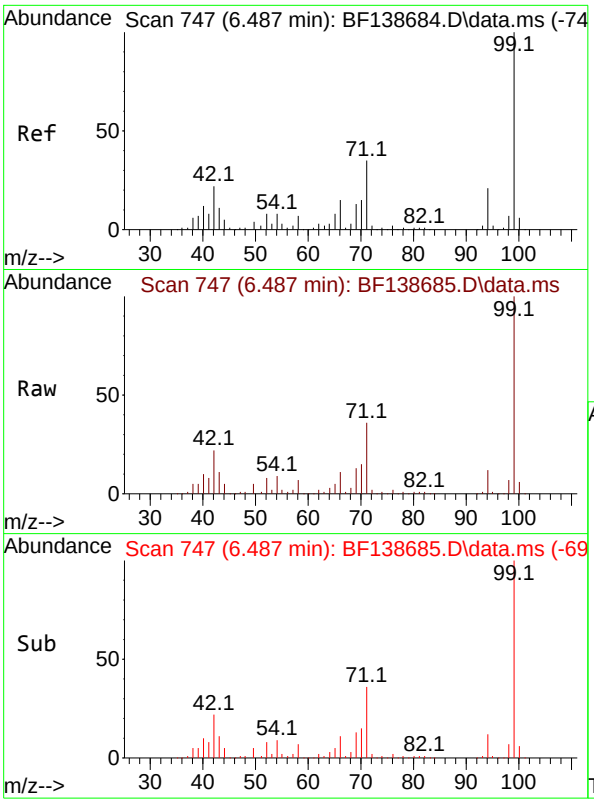




#6
Aniline
Concen: 47.911 ng
RT: 6.510 min Scan# 751
Delta R.T. -0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion: 93 Resp: 278162

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 66 | 76.5 | 46.9 | 70.3# |
| 65 | 45.9 | 26.5 | 39.7# |



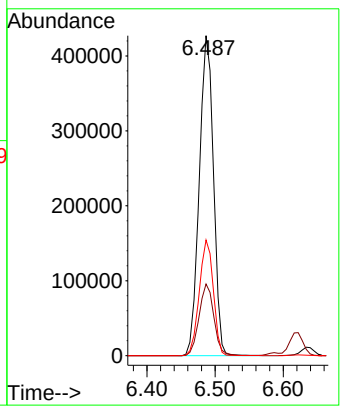


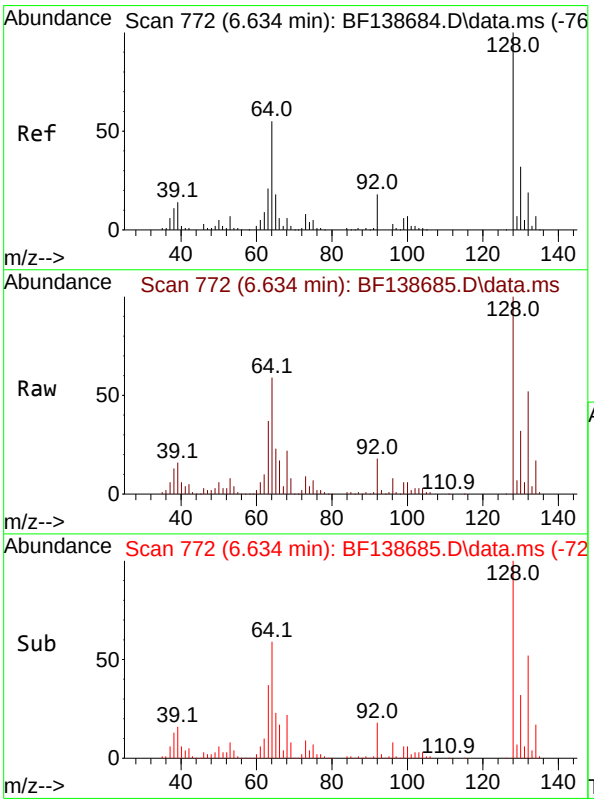

#7
Phenol-d6
Concen: 95.084 ng
RT: 6.487 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion: 99 Resp: 619012

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 22.4 | 17.4 | 26.0 |
| 71 | 36.2 | 28.1 | 42.1 |

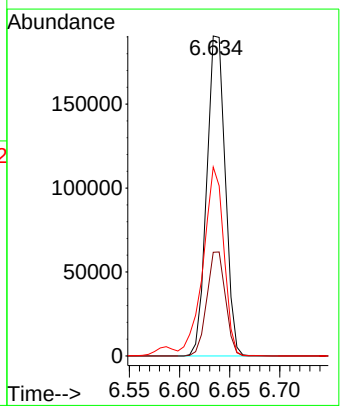


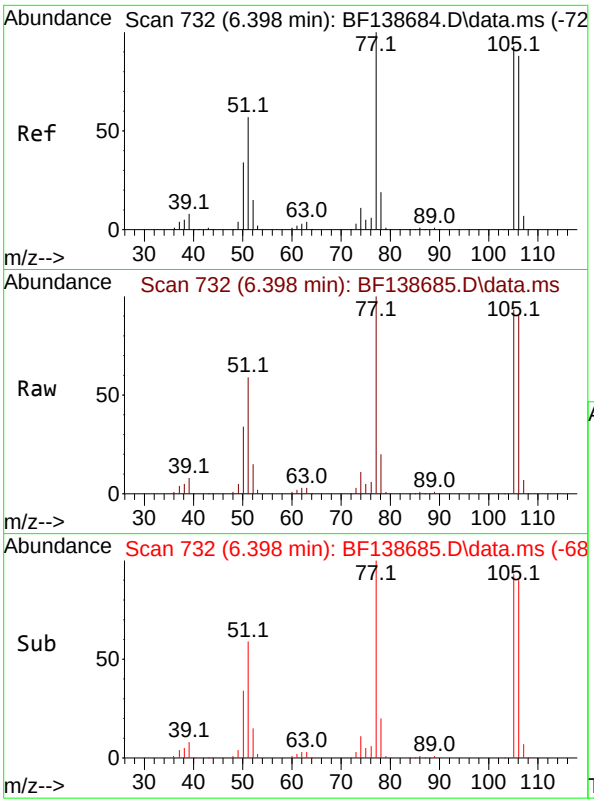




#8
2-Chlorophenol
Concen: 47.976 ng
RT: 6.634 min Scan# 772
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:128 Resp: 244752

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 130 | 32.4 | 12.0 | 52.0 |
| 64 | 59.1 | 36.3 | 76.3 |



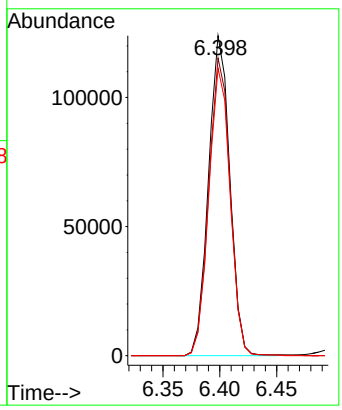


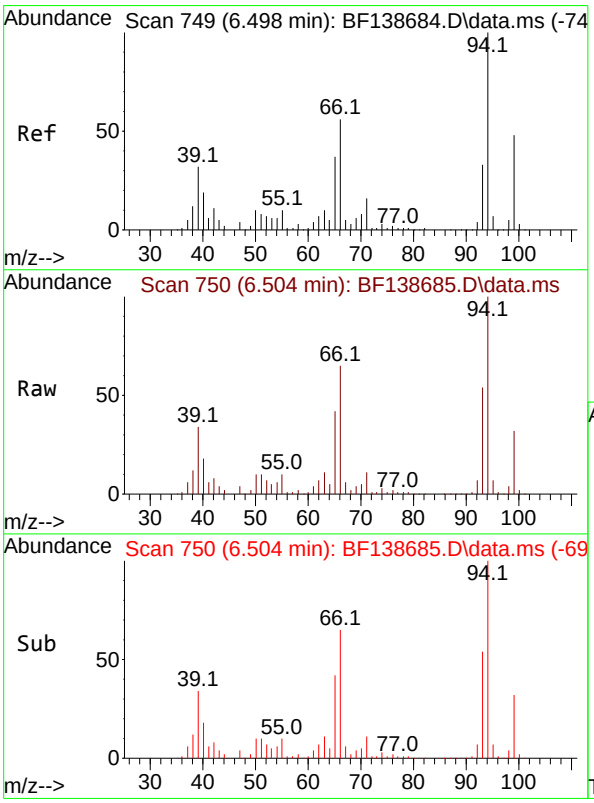

#9
Benzaldehyde
Concen: 41.333 ng
RT: 6.398 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion: 77 Resp: 161301

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 105 | 93.0 | 72.9 | 112.9 |
| 106 | 89.8 | 68.4 | 108.4 |

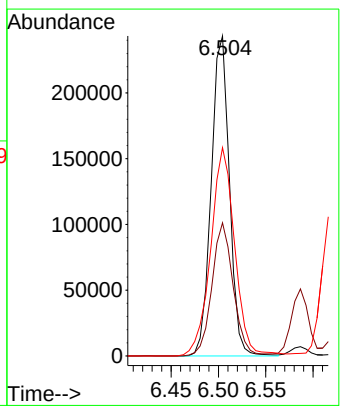


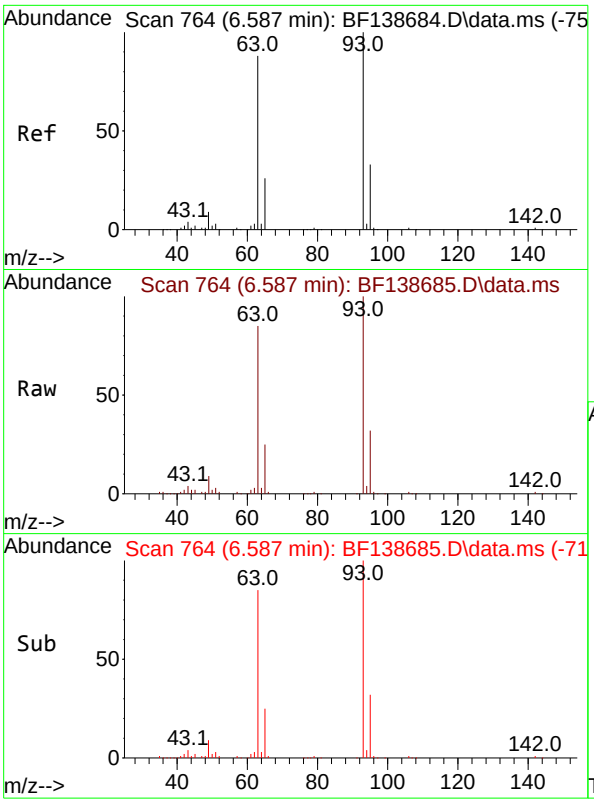




#10
Phenol
Concen: 47.487 ng
RT: 6.504 min Scan# 750
Delta R.T. 0.006 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion: 94 Resp: 325498

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 41.6 | 16.9 | 56.9 |
| 66 | 65.1 | 36.5 | 76.5 |



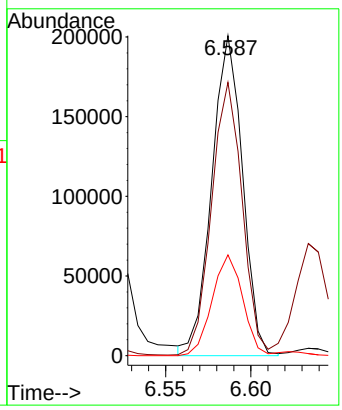


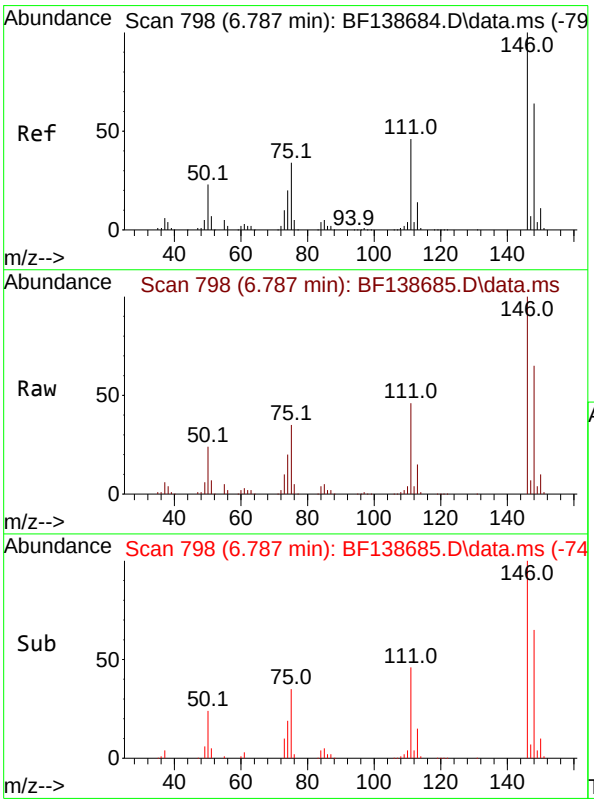

#11
bis(2-Chloroethyl)ether
Concen: 47.838 ng
RT: 6.587 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion: 93 Resp: 252329

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 85.4 | 65.3 | 105.3 |
| 95 | 31.5 | 12.4 | 52.4 |

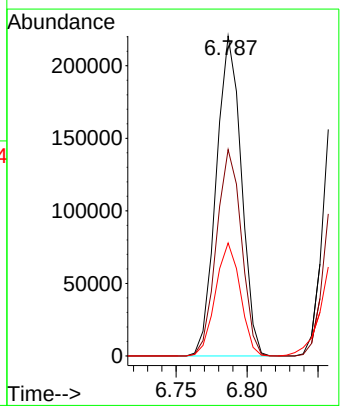


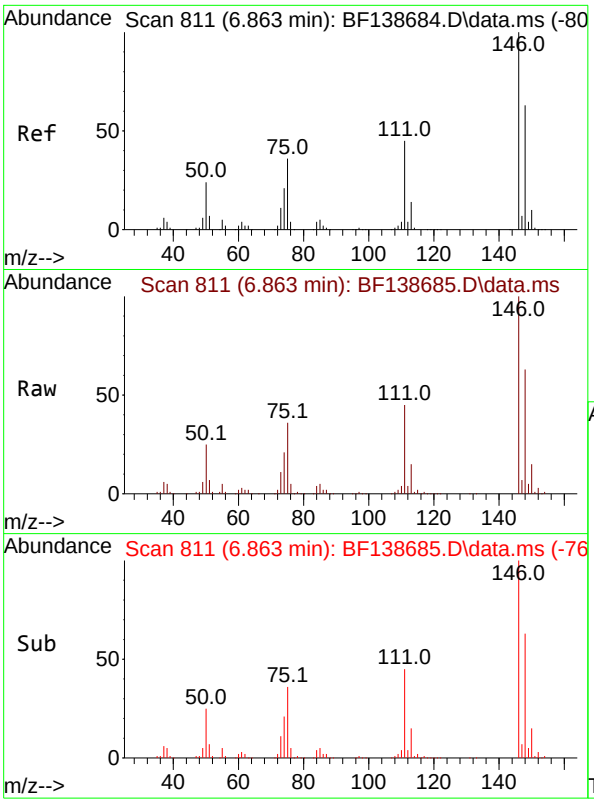




#12
1,3-Dichlorobenzene
Concen: 47.346 ng
RT: 6.787 min Scan# 798
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:146 Resp: 270376

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 64.5 | 51.2 | 76.8 |
| 75 | 35.3 | 27.4 | 41.2 |



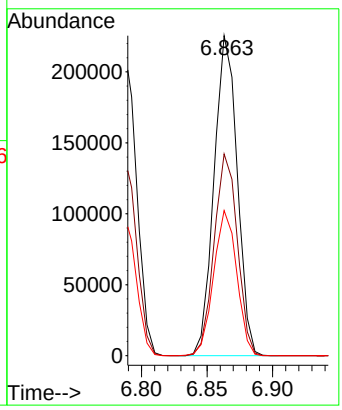


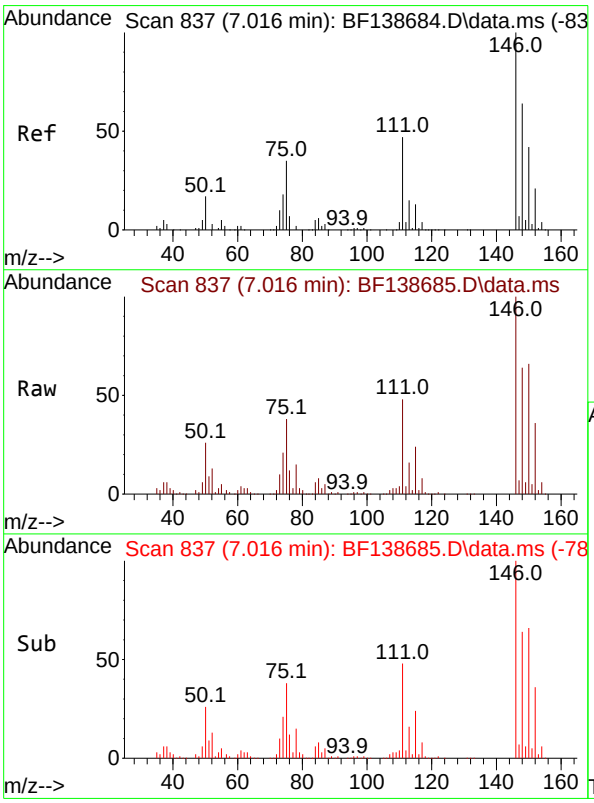

#13
1,4-Dichlorobenzene
Concen: 48.130 ng
RT: 6.863 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:146 Resp: 277374

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 63.1 | 50.2 | 75.2 |
| 111 | 45.4 | 35.9 | 53.9 |

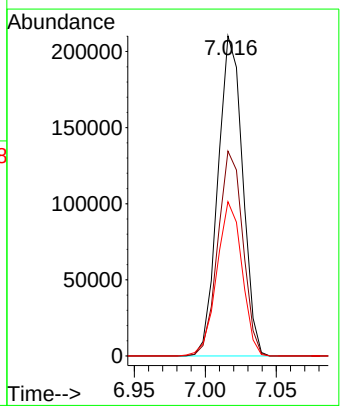


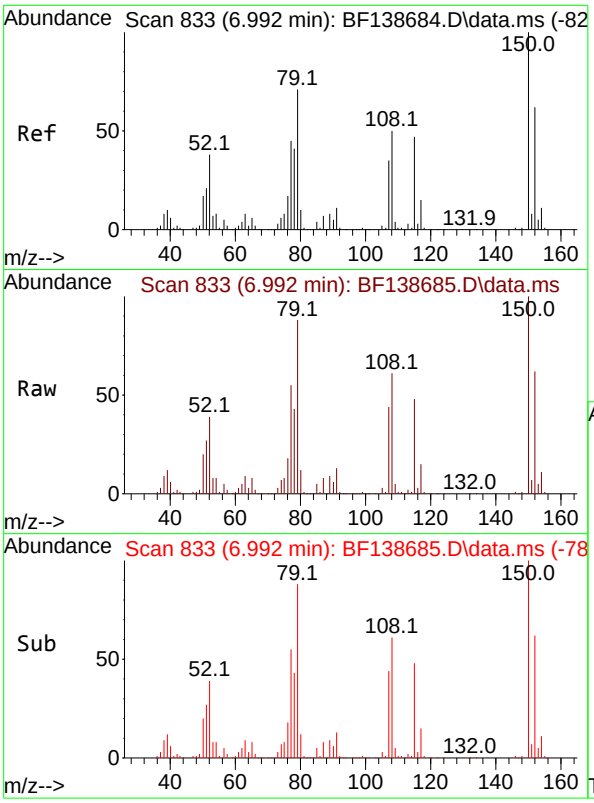




#14
1,2-Dichlorobenzene
Concen: 47.188 ng
RT: 7.016 min Scan# 837
Delta R.T. -0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:146 Resp: 254151

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 64.0 | 50.8 | 76.2 |
| 111 | 48.2 | 37.4 | 56.2 |



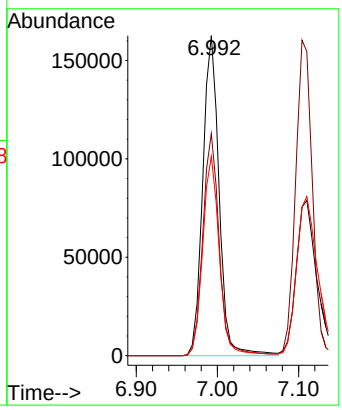


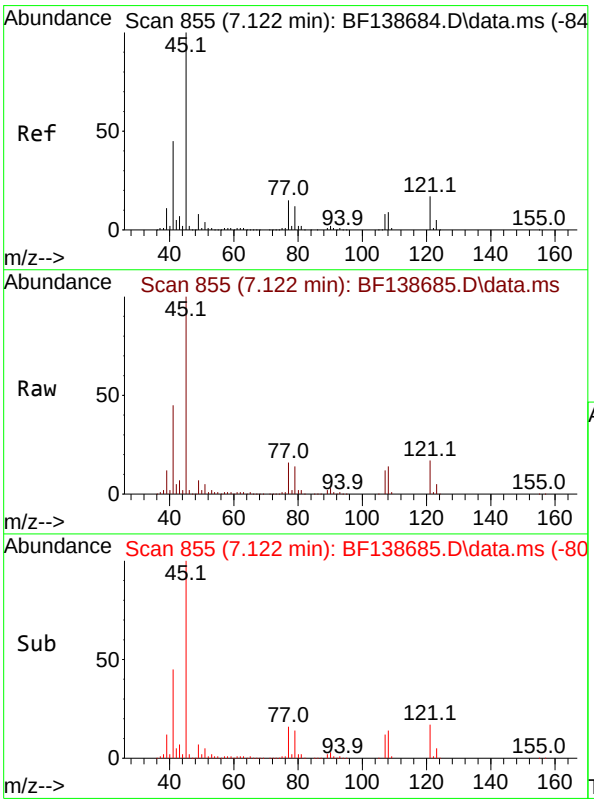

#15
Benzyl Alcohol
Concen: 48.392 ng
RT: 6.992 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion: 79 Resp: 227061

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 108 | 69.4 | 56.6 | 85.0 |
| 77 | 62.3 | 50.3 | 75.5 |

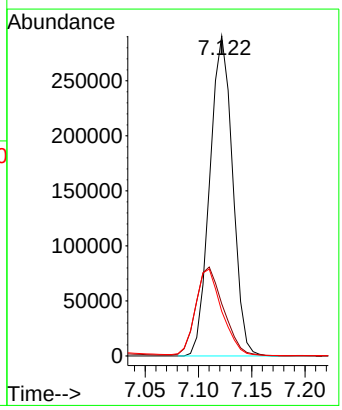


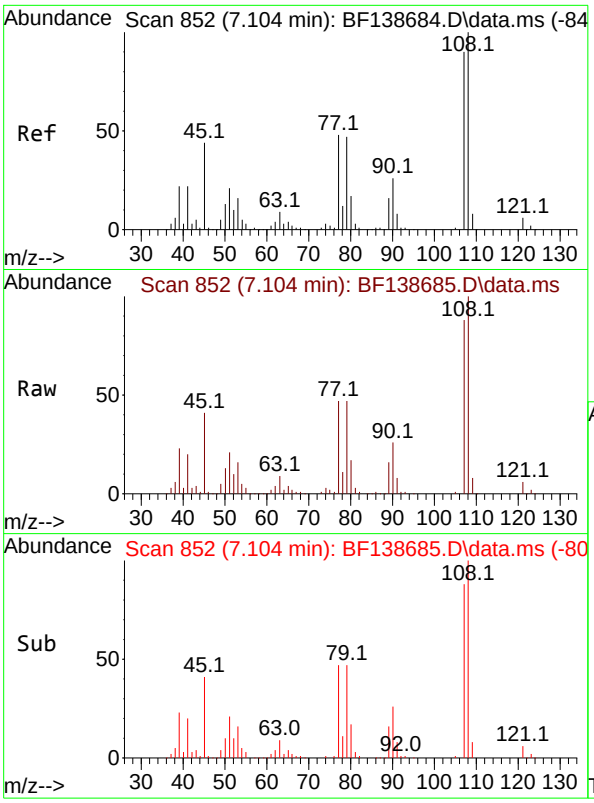




#16
2,2'-oxybis(1-Chloropropane)
Concen: 47.646 ng
RT: 7.122 min Scan# 855
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion: 45 Resp: 432504

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 77 | 16.3 | 0.0 | 34.9 |
| 79 | 13.9 | 0.0 | 32.2 |



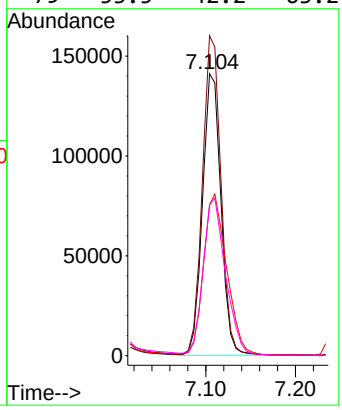


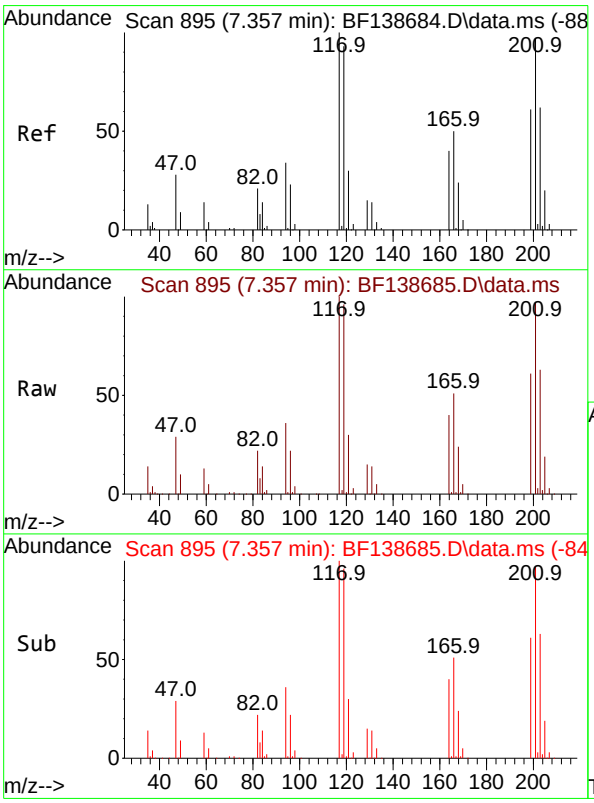

#17
2-Methylphenol
Concen: 47.638 ng
RT: 7.104 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:107 Resp: 200680

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 113.5 | 89.2 | 133.8 |
| 77 | 53.6 | 43.0 | 64.4 |
| 79 | 53.5 | 42.2 | 63.2 |

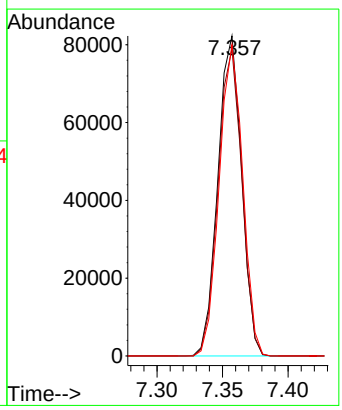


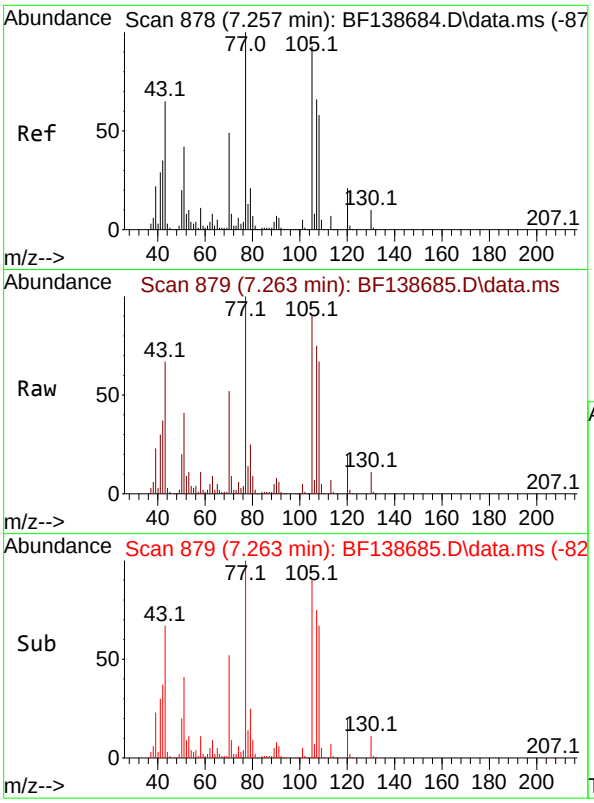




#18
Hexachloroethane
Concen: 47.780 ng
RT: 7.357 min Scan# 895
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:117 Resp: 103651

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 96.0 | 74.6 | 111.8 |
| 201 | 97.3 | 77.2 | 115.8 |



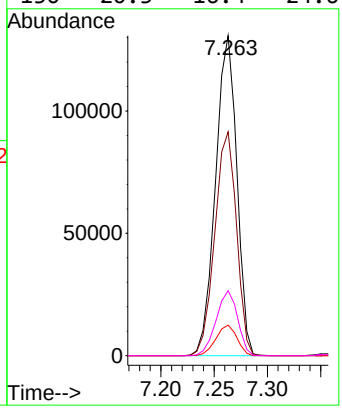


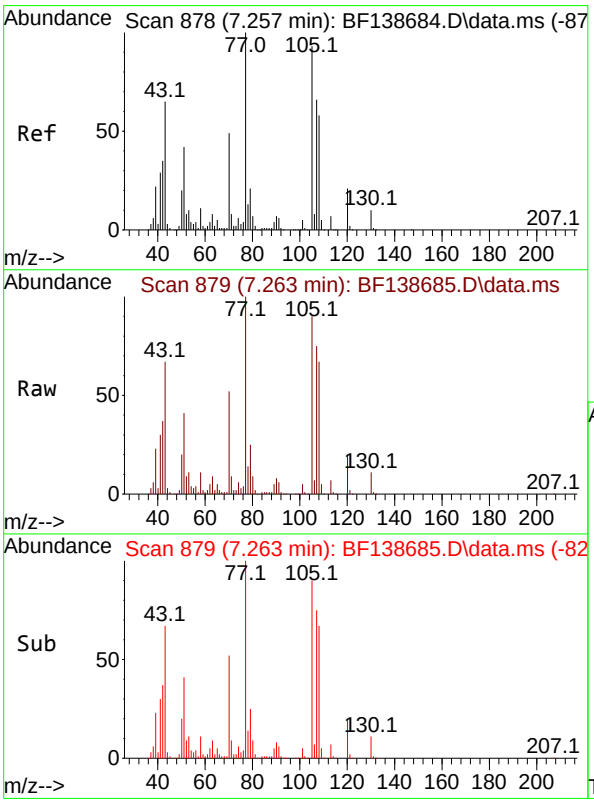

#19
n-Nitroso-di-n-propylamine
Concen: 46.154 ng
RT: 7.263 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion: 70 Resp: 181478

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 42 | 69.9 | 57.4 | 86.0 |
| 101 | 9.6 | 7.5 | 11.3 |
| 130 | 20.3 | 16.4 | 24.6 |

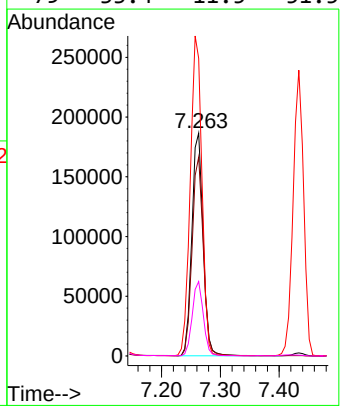


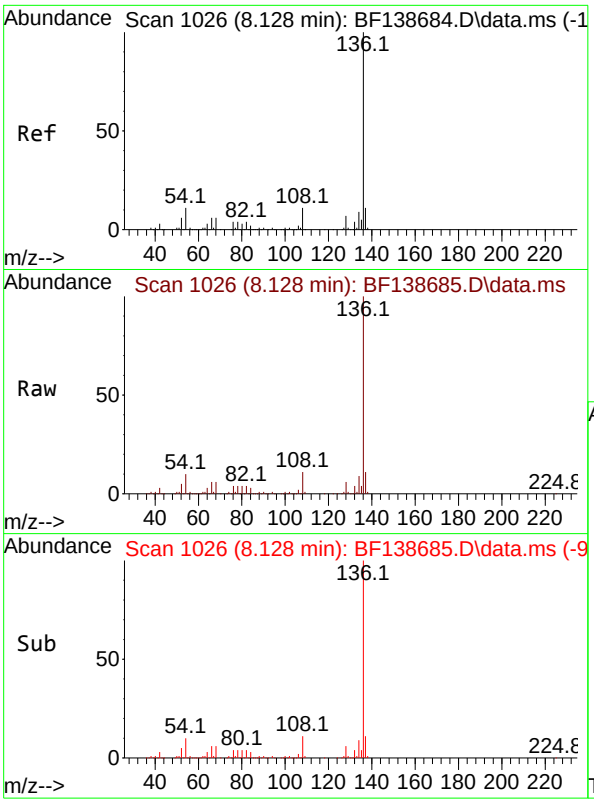




#20
3+4-Methylphenols
Concen: 45.970 ng
RT: 7.263 min Scan# 879
Delta R.T. 0.006 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:107 Resp: 248467

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 89.3 | 68.2 | 108.2 |
| 77 | 133.6 | 132.1 | 172.1 |
| 79 | 33.4 | 11.5 | 51.5 |



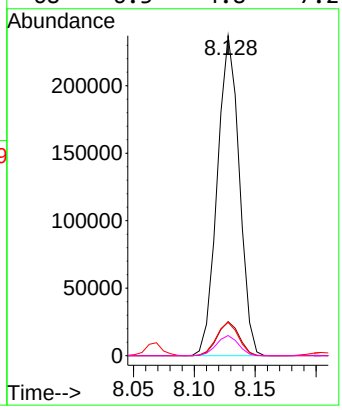


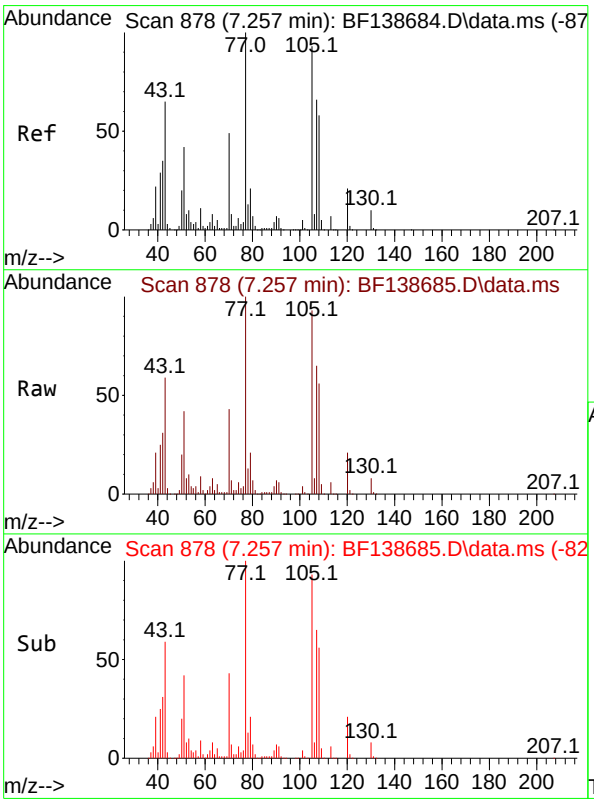

#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.128 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:136 Resp: 297858

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.7 | 8.9 | 13.3 |
| 54 | 10.4 | 8.6 | 12.8 |
| 68 | 6.3 | 4.8 | 7.2 |

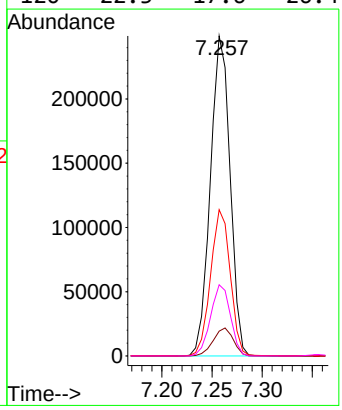


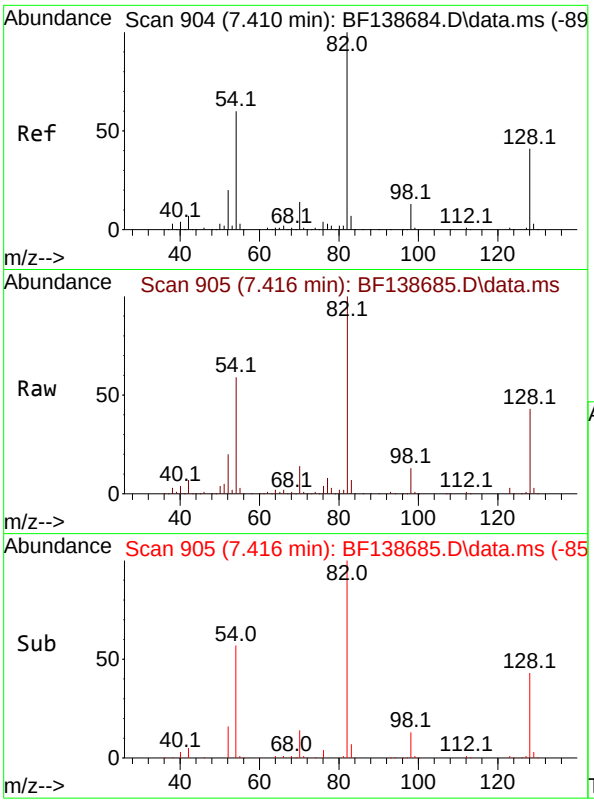




#22
Acetophenone
Concen: 46.663 ng
RT: 7.257 min Scan# 878
Delta R.T. -0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:105 Resp: 340314

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 71 | 7.7 | 7.2 | 10.8 |
| 51 | 45.7 | 35.9 | 53.9 |
| 120 | 22.3 | 17.6 | 26.4 |



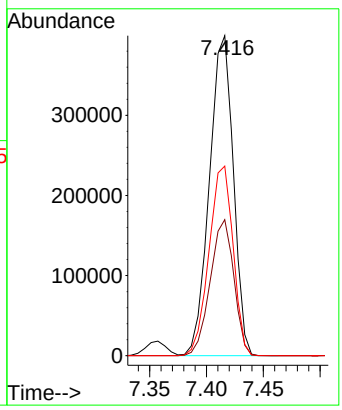


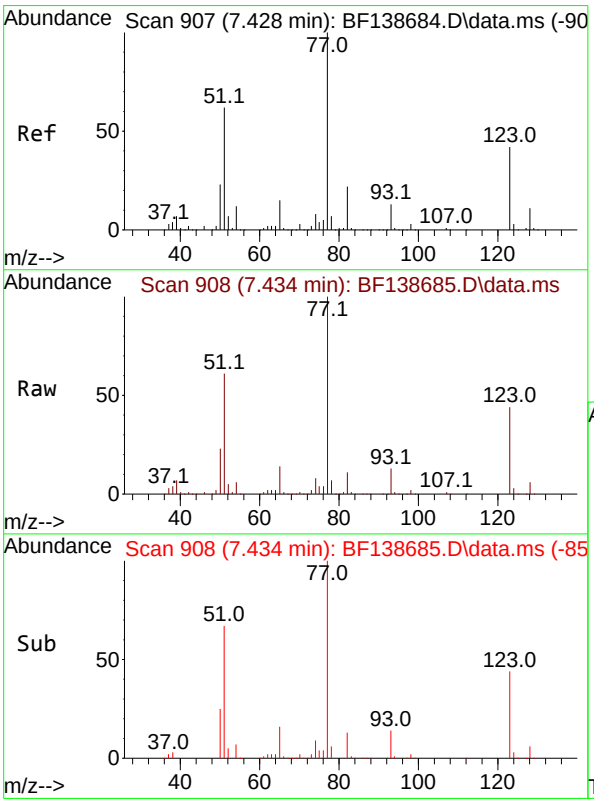

#23
Nitrobenzene-d5
Concen: 96.067 ng
RT: 7.416 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion: 82 Resp: 585266

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 42.5 | 32.8 | 49.2 |
| 54 | 59.3 | 48.3 | 72.5 |

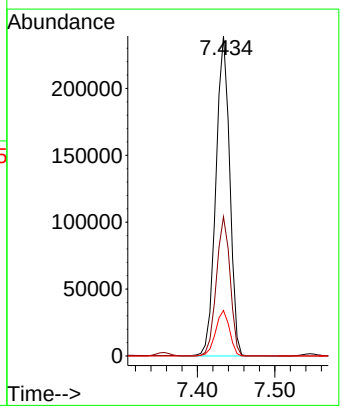


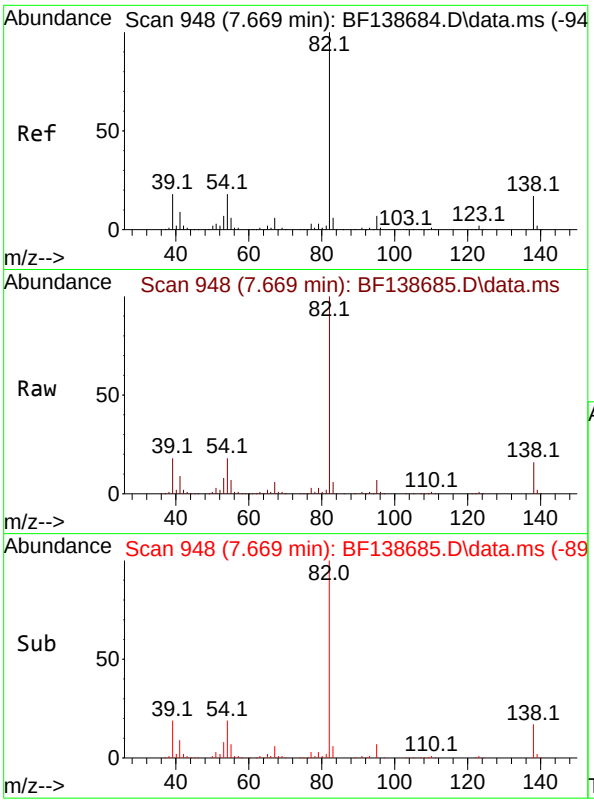




#24
Nitrobenzene
Concen: 48.005 ng
RT: 7.434 min Scan# 908
Delta R.T. 0.006 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion: 77 Resp: 297595

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 123 | 43.5 | 33.3 | 49.9 |
| 65 | 14.2 | 11.9 | 17.9 |



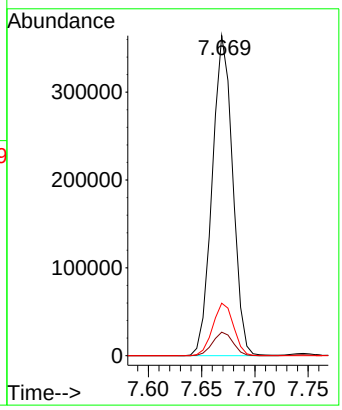


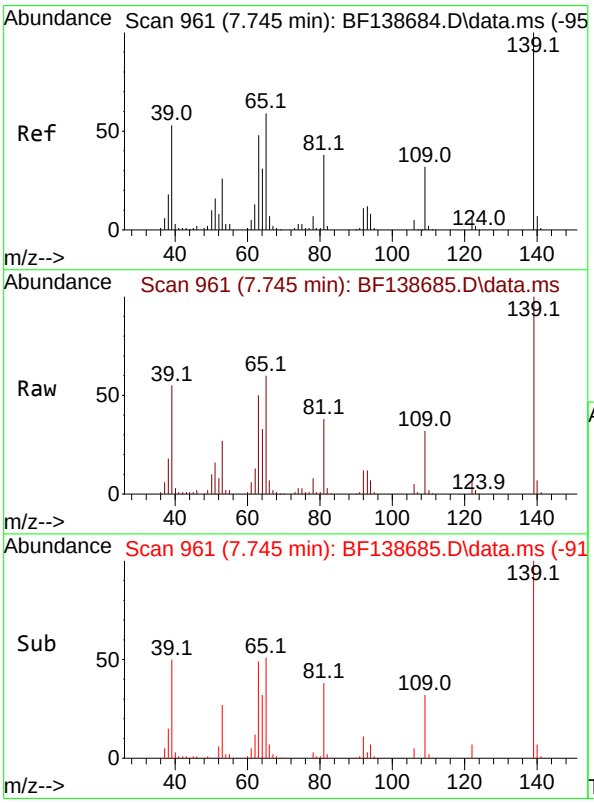

#25
Isophorone
Concen: 46.876 ng
RT: 7.669 min Scan# 94
Delta R.T. -0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion: 82 Resp: 487636

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 95 | 7.3 | 5.7 | 8.5 |
| 138 | 16.4 | 13.7 | 20.5 |

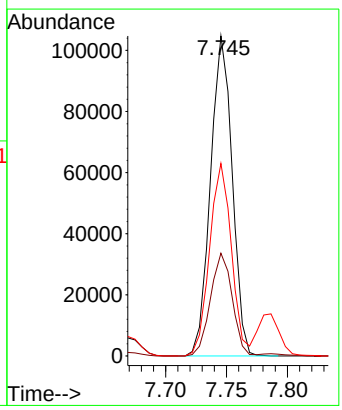


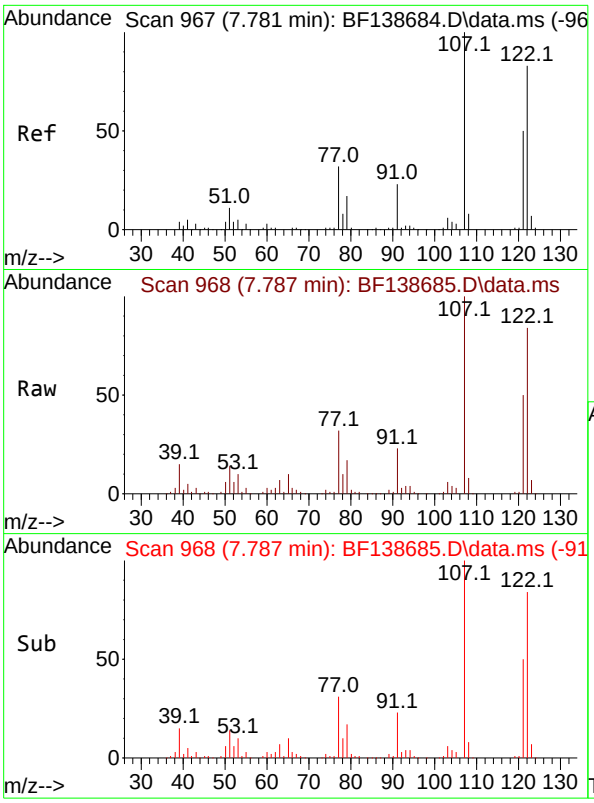




#26
2-Nitrophenol
Concen: 48.769 ng
RT: 7.745 min Scan# 961
Delta R.T. -0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:139 Resp: 130074

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 32.1 | 25.9 | 38.9 |
| 65 | 60.1 | 47.0 | 70.6 |



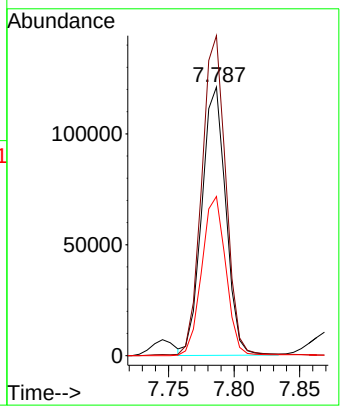


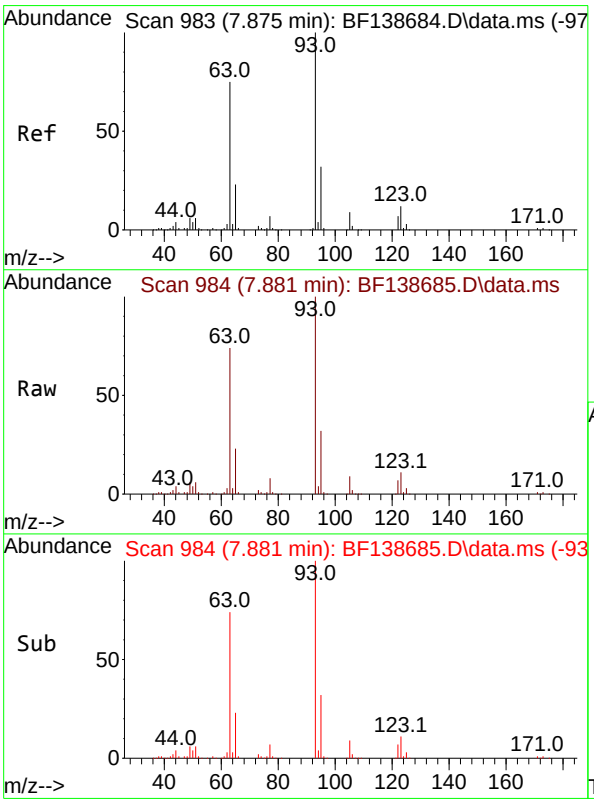

#27
2,4-Dimethylphenol
Concen: 48.328 ng
RT: 7.787 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:122 Resp: 154221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 107 | 119.1 | 95.0 | 142.6 |
| 121 | 59.3 | 47.3 | 70.9 |

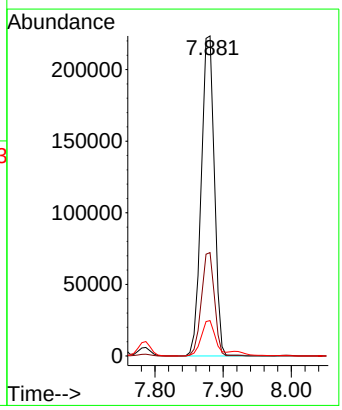


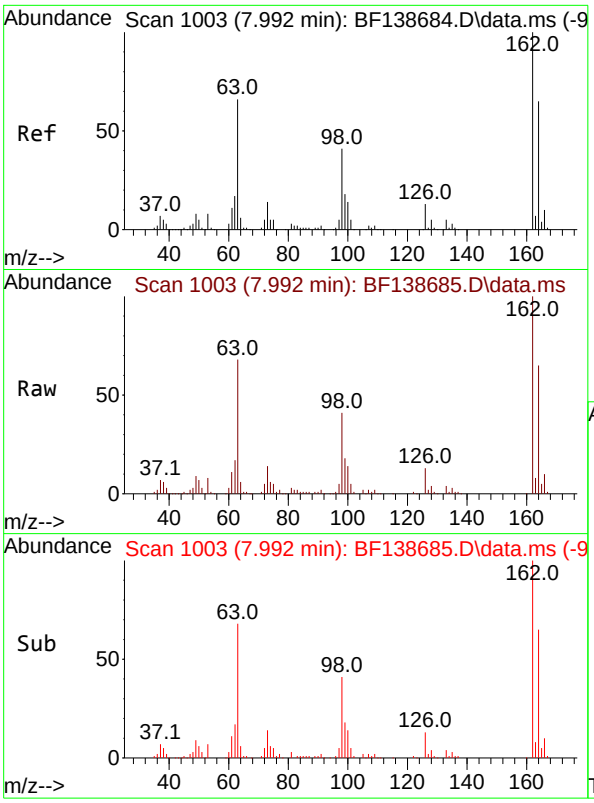




#28
bis(2-Chloroethoxy)methane
Concen: 47.308 ng
RT: 7.881 min Scan# 984
Delta R.T. 0.006 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion: 93 Resp: 299695

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 32.3 | 25.8 | 38.8 |
| 123 | 11.1 | 9.4 | 14.0 |



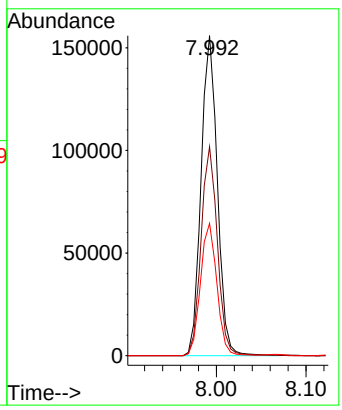


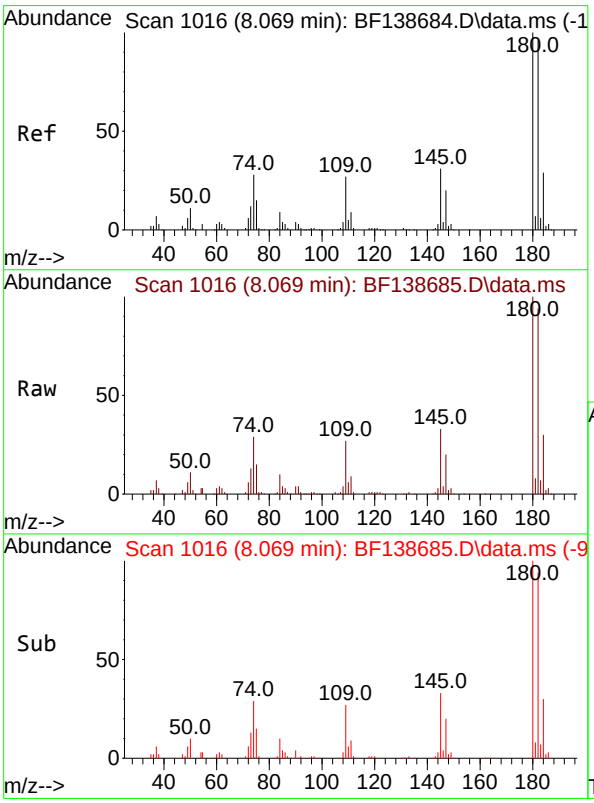

#29
2,4-Dichlorophenol
Concen: 47.954 ng
RT: 7.992 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:162 Resp: 196641

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 164 | 65.3 | 44.7 | 84.7 |
| 98 | 41.4 | 20.8 | 60.8 |

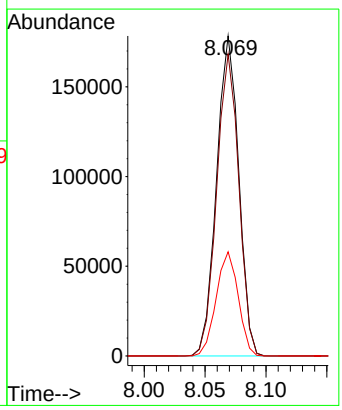


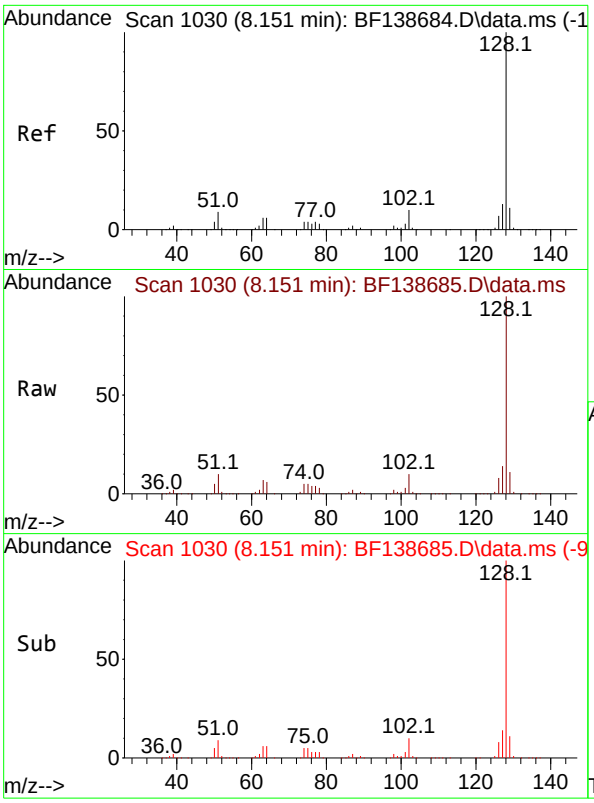




#30
1,2,4-Trichlorobenzene
Concen: 47.793 ng
RT: 8.069 min Scan# 1016
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:180 Resp: 226165

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.4 | 76.9 | 115.3 |
| 145 | 32.5 | 25.0 | 37.4 |



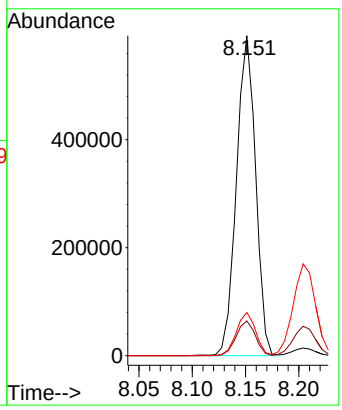


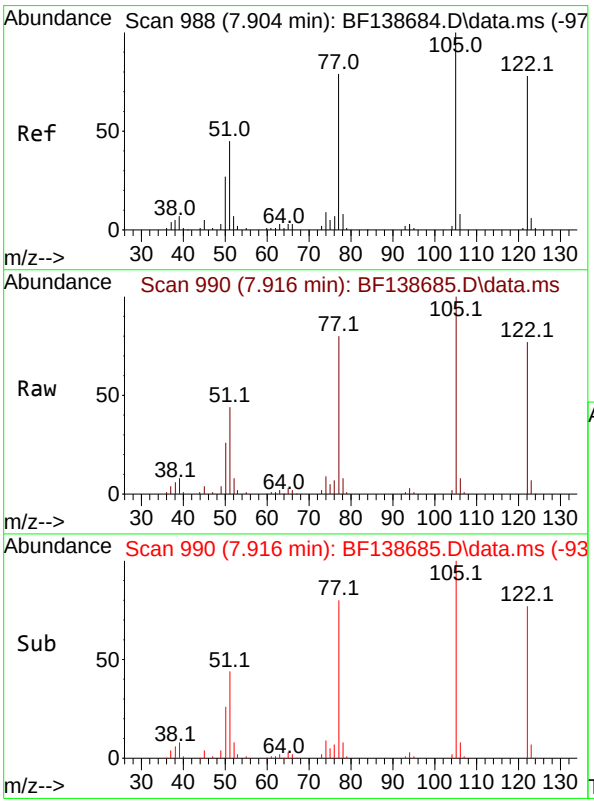

#31
Naphthalene
Concen: 47.479 ng
RT: 8.151 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:128 Resp: 744393

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 10.9 | 8.7 | 13.1 |
| 127 | 13.5 | 10.6 | 16.0 |

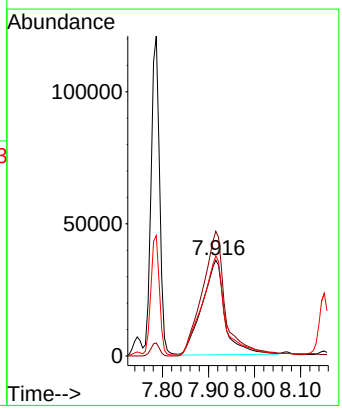


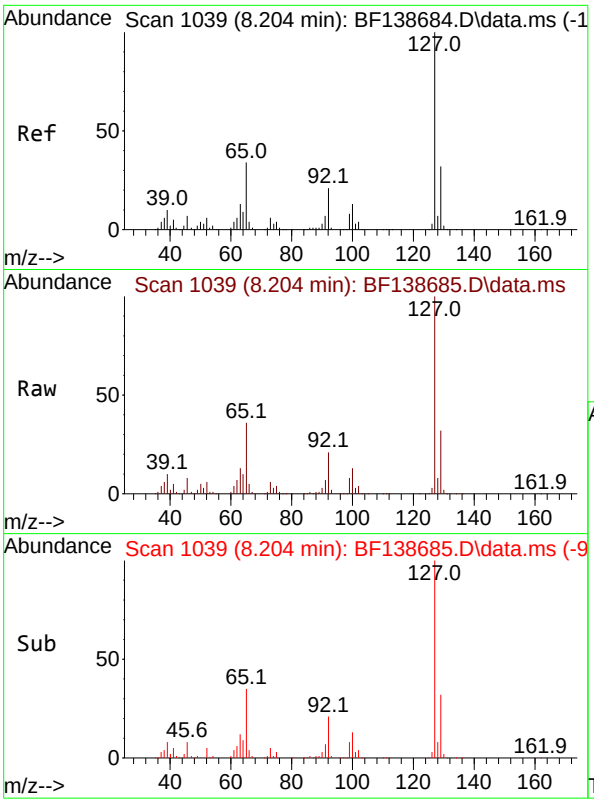




#32
Benzoic acid
Concen: 49.340 ng
RT: 7.916 min Scan# 990
Delta R.T. 0.012 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:122 Resp: 123714

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 130.0 | 106.7 | 146.7 |
| 77 | 104.4 | 81.1 | 121.1 |



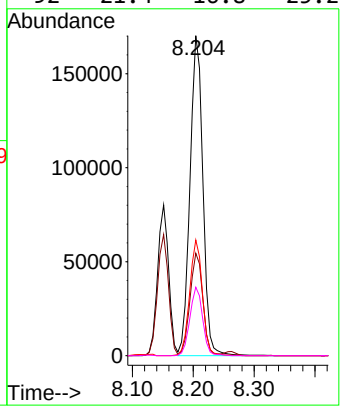


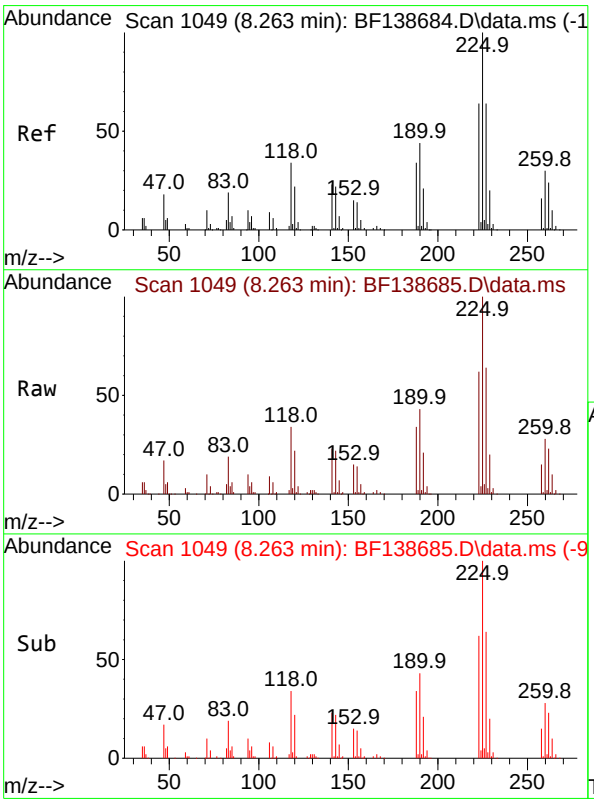

#33
4-Chloroaniline
Concen: 47.621 ng
RT: 8.204 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:127 Resp: 250620

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 32.0 | 25.9 | 38.9 |
| 65 | 36.2 | 27.6 | 41.4 |
| 92 | 21.4 | 16.8 | 25.2 |

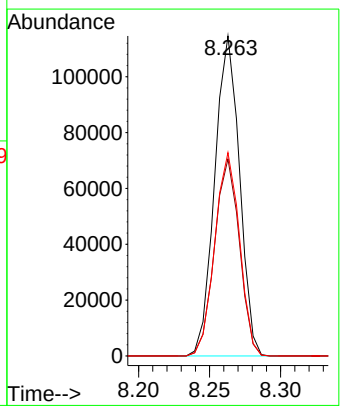


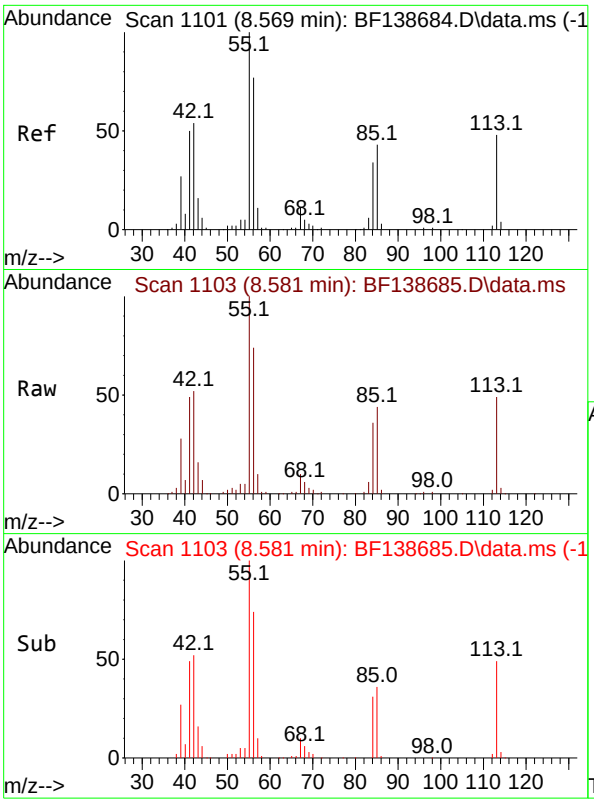




#34
Hexachlorobutadiene
Concen: 48.493 ng
RT: 8.263 min Scan# 1049
Delta R.T. -0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:225 Resp: 138993

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 61.5 | 51.2 | 76.8 |
| 227 | 63.6 | 51.1 | 76.7 |



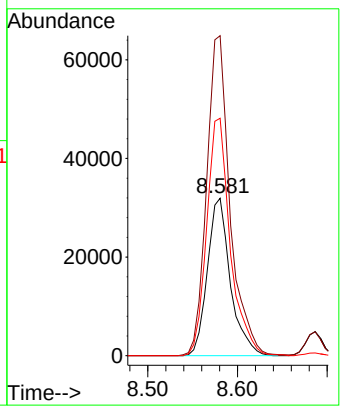


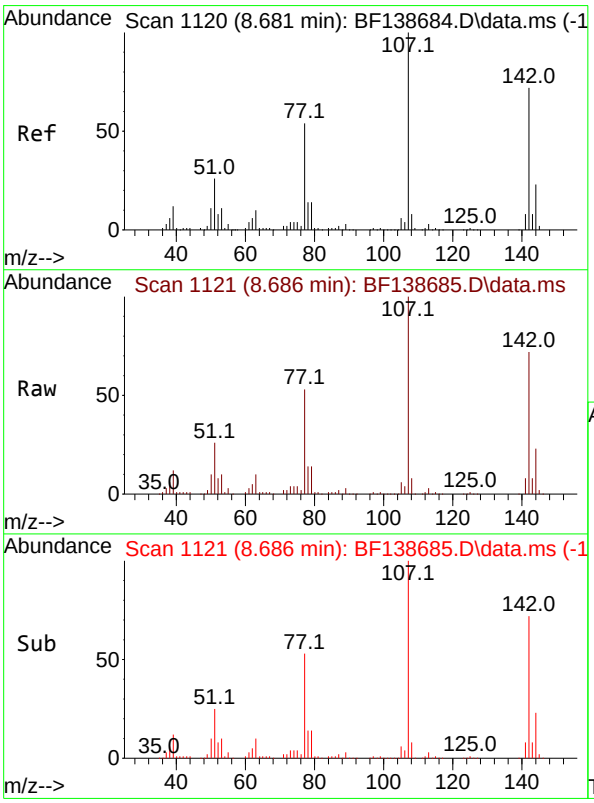

#35
Caprolactam
Concen: 46.347 ng
RT: 8.581 min Scan# 11
Delta R.T. 0.012 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:113 Resp: 56708

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 55 | 203.2 | 186.7 | 226.7 |
| 56 | 150.8 | 138.9 | 178.9 |

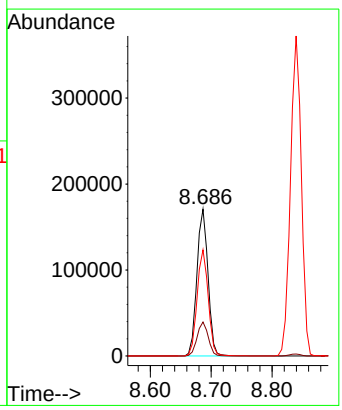


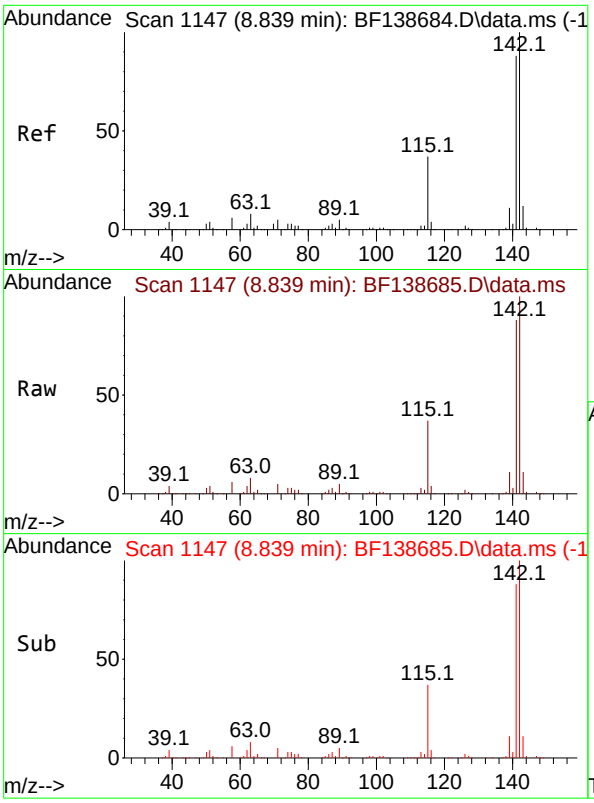




#36
4-Chloro-3-methylphenol
Concen: 46.151 ng
RT: 8.686 min Scan# 1121
Delta R.T. 0.006 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:107 Resp: 216280

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 144 | 23.2 | 18.2 | 27.2 |
| 142 | 72.3 | 57.4 | 86.2 |



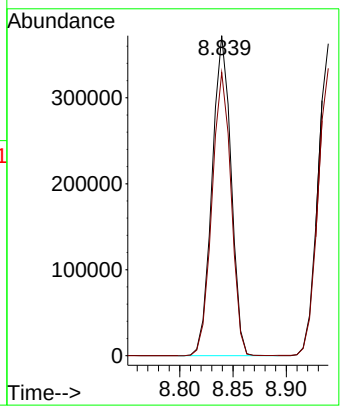


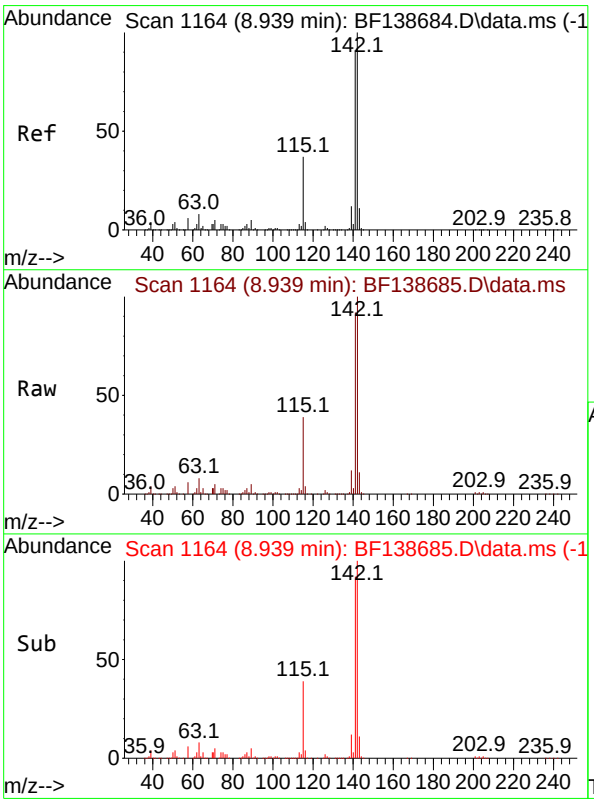

#37
2-Methylnaphthalene
Concen: 46.570 ng
RT: 8.839 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:142 Resp: 461125

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 88.5 | 70.8 | 106.2 |

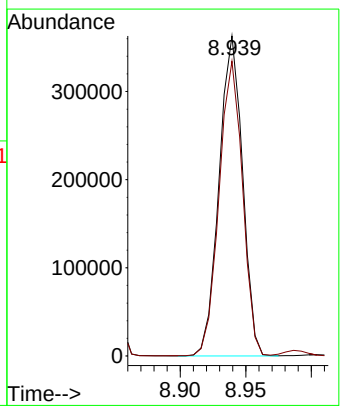


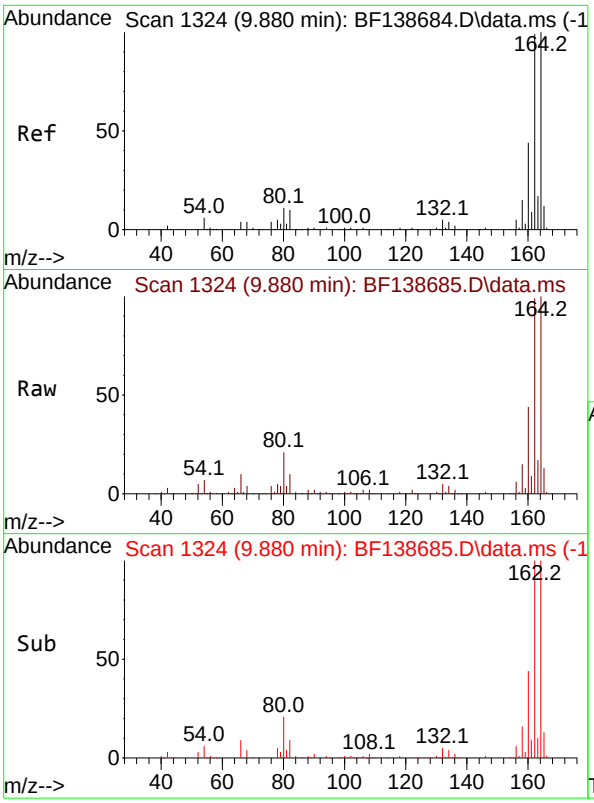




#38
1-Methylnaphthalene
Concen: 46.476 ng
RT: 8.939 min Scan# 1164
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:142 Resp: 450948

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 92.1 | 73.1 | 109.7 |



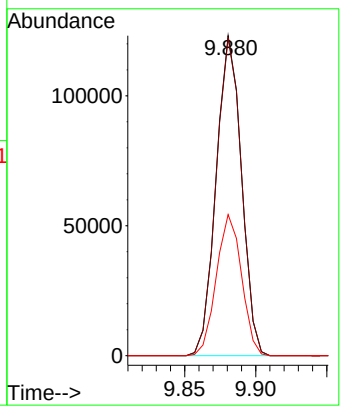


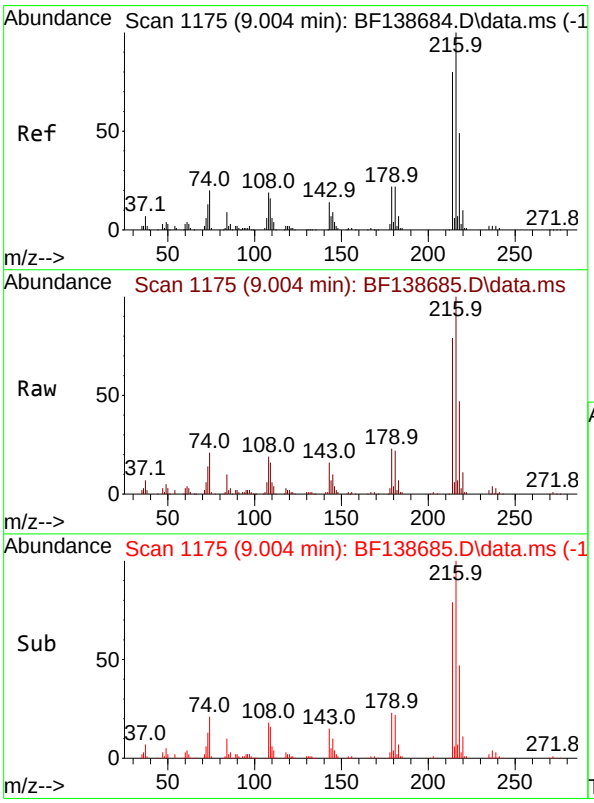

#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.880 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:164 Resp: 152426

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 99.3 | 79.4 | 119.0 |
| 160 | 44.1 | 35.1 | 52.7 |

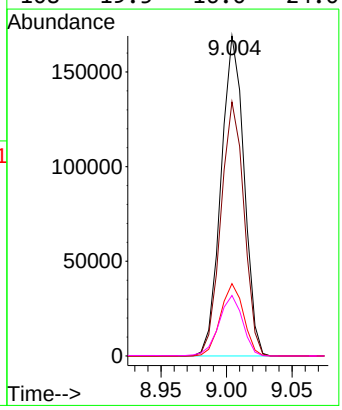


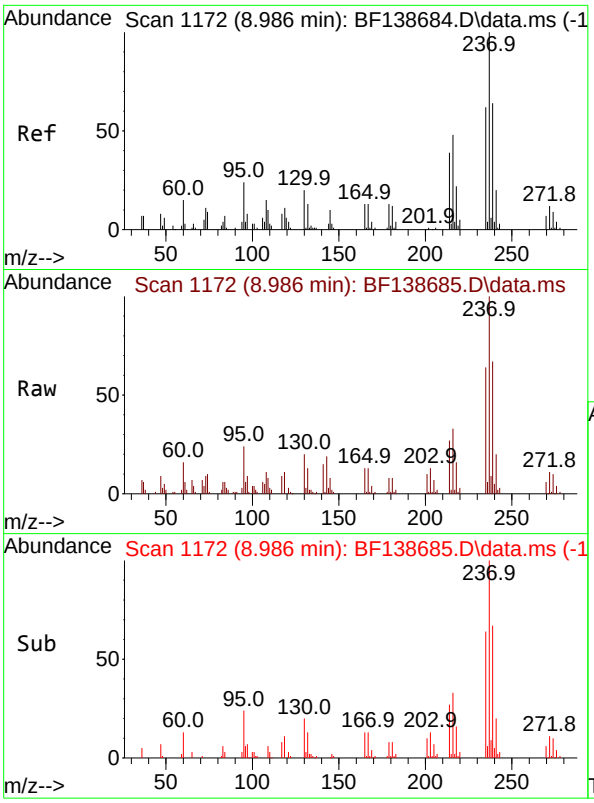




#40
1,2,4,5-Tetrachlorobenzene
Concen: 48.789 ng
RT: 9.004 min Scan# 1175
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:216 Resp: 206585

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 216 | 100 | | |
| 214 | 79.5 | 63.9 | 95.9 |
| 179 | 22.5 | 17.8 | 26.6 |
| 108 | 19.5 | 16.0 | 24.0 |



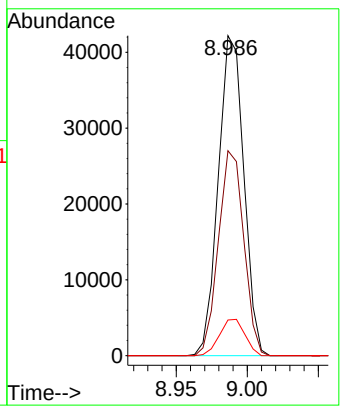


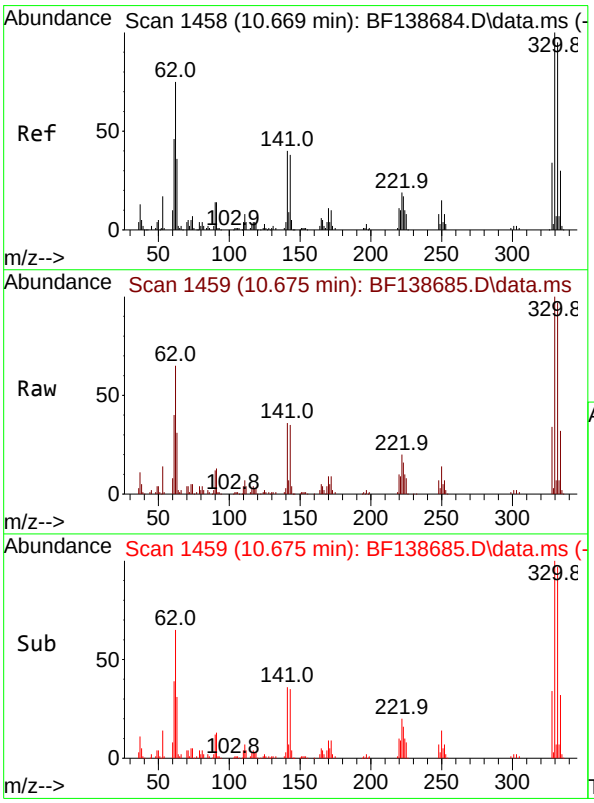

#41
Hexachlorocyclopentadiene
Concen: 49.894 ng
RT: 8.986 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:237 Resp: 52700

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 237 | 100 | | |
| 235 | 64.1 | 41.8 | 81.8 |
| 272 | 11.1 | 0.0 | 32.2 |

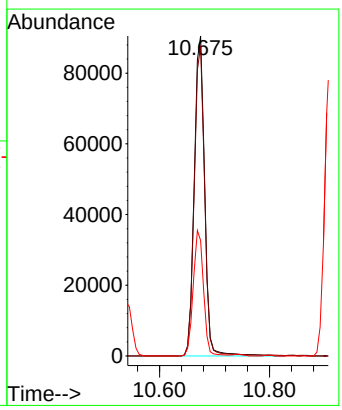


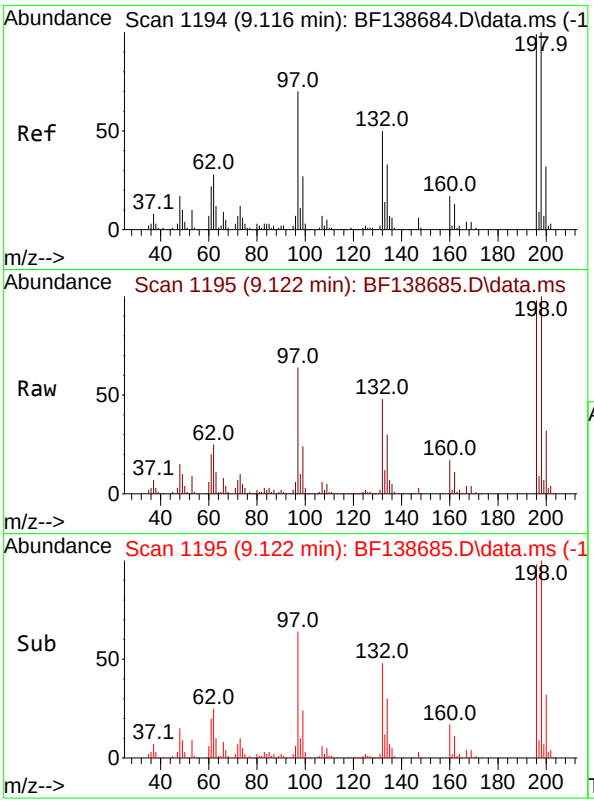




#42
2,4,6-Tribromophenol
Concen: 95.358 ng
RT: 10.675 min Scan# 1459
Delta R.T. 0.006 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:330 Resp: 119062

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 95.9 | 76.4 | 114.6 |
| 141 | 38.7 | 31.1 | 46.7 |



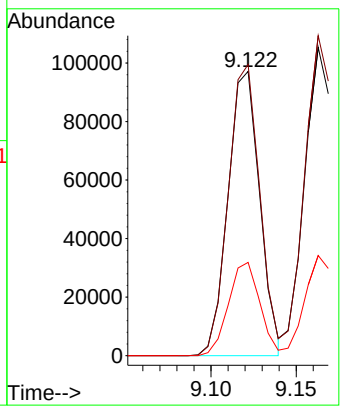


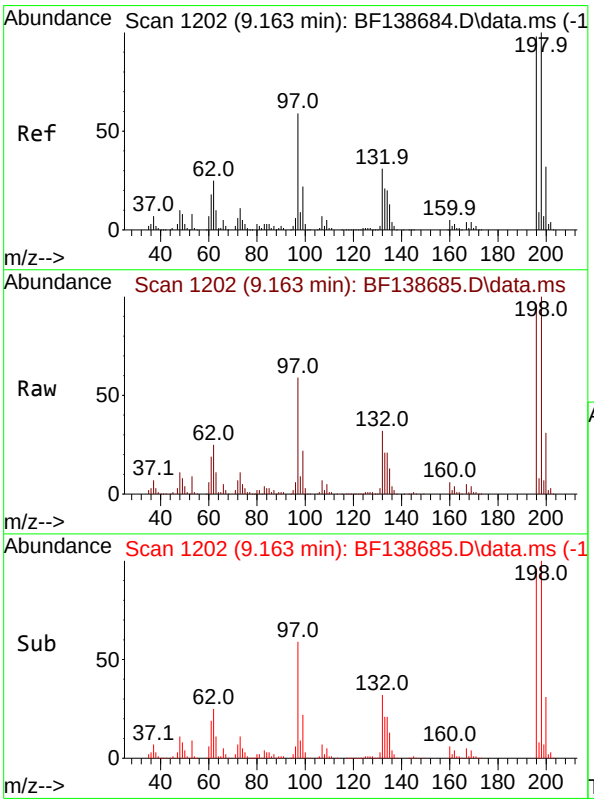

#43
2,4,6-Trichlorophenol
Concen: 48.741 ng
RT: 9.122 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:196 Resp: 125832

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 102.4 | 80.5 | 120.7 |
| 200 | 32.8 | 25.9 | 38.9 |

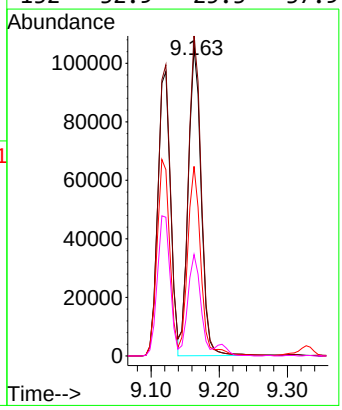


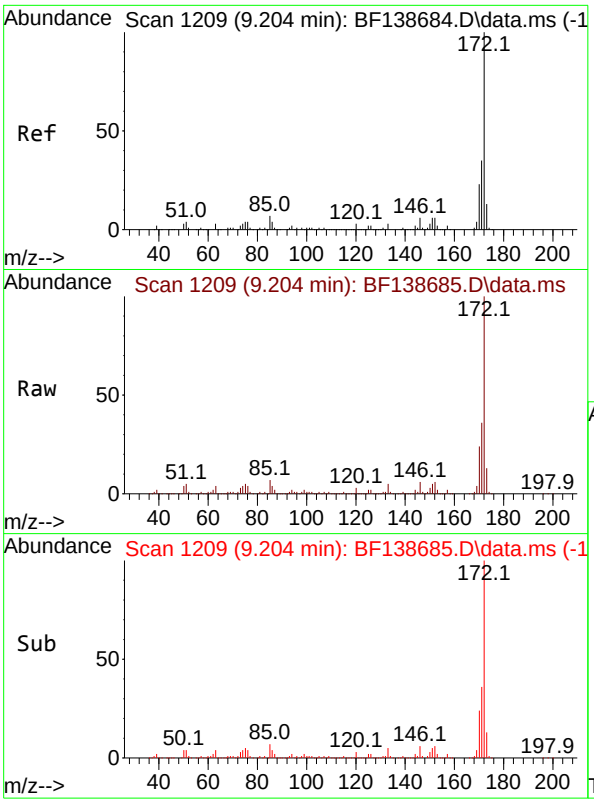




#44
2,4,5-Trichlorophenol
Concen: 48.726 ng
RT: 9.163 min Scan# 1202
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:196 Resp: 137518

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 103.8 | 81.2 | 121.8 |
| 97 | 61.5 | 47.8 | 71.6 |
| 132 | 32.9 | 25.3 | 37.9 |



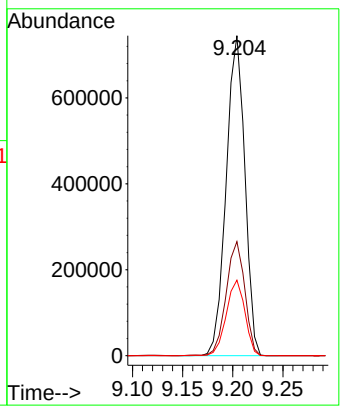


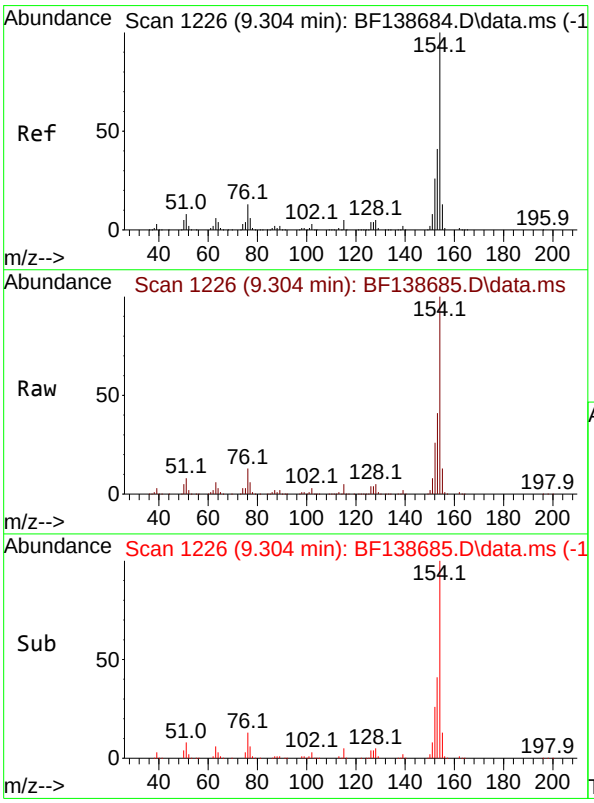

#45
2-Fluorobiphenyl
Concen: 94.693 ng
RT: 9.204 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:172 Resp: 960645

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.6 | 28.3 | 42.5 |
| 170 | 23.6 | 18.8 | 28.2 |

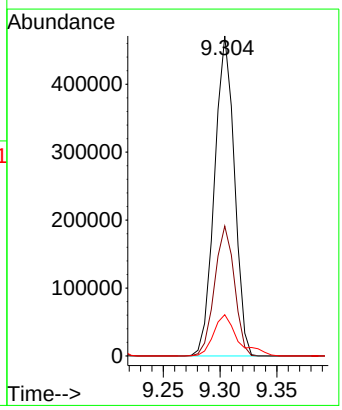


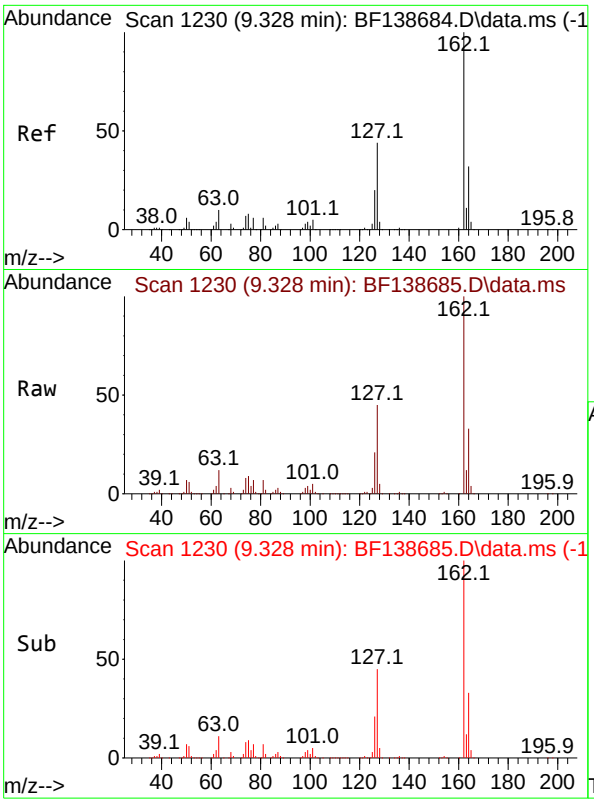




#46
1,1'-Biphenyl
Concen: 48.107 ng
RT: 9.304 min Scan# 1226
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:154 Resp: 574292

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 40.6 | 20.8 | 60.8 |
| 76 | 12.9 | 0.0 | 32.8 |



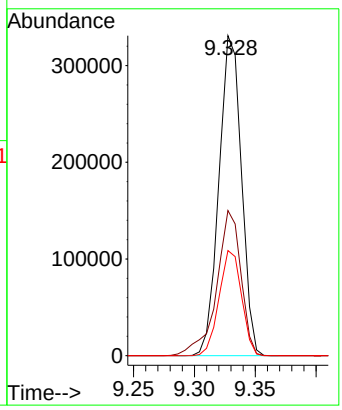


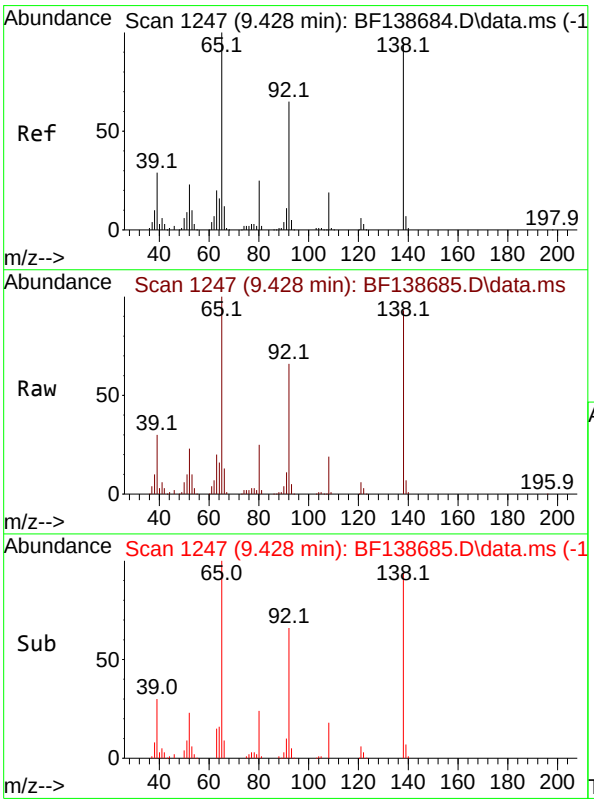

#47
2-Chloronaphthalene
Concen: 48.011 ng
RT: 9.328 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:162 Resp: 426264

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 127 | 45.4 | 35.4 | 53.2 |
| 164 | 32.9 | 25.6 | 38.4 |

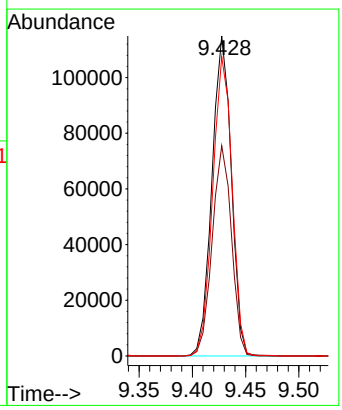


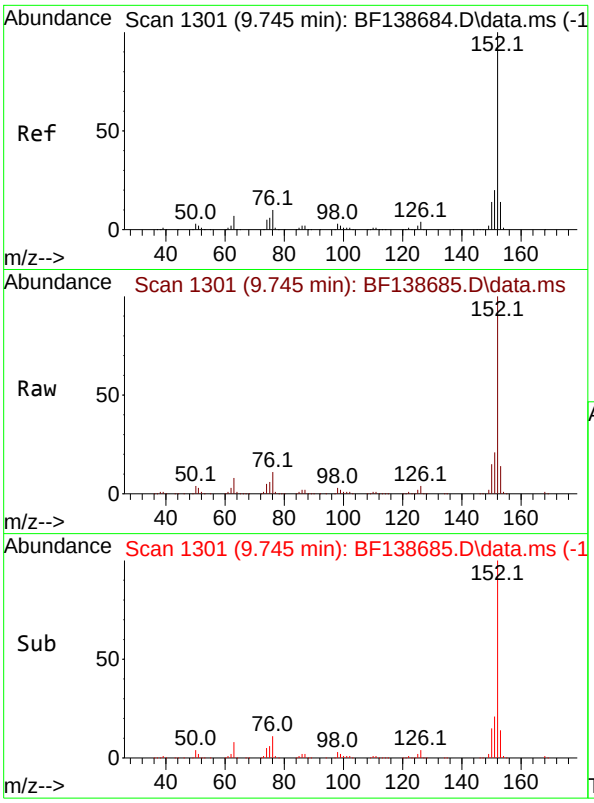




#48
2-Nitroaniline
Concen: 48.087 ng
RT: 9.428 min Scan# 1247
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion: 65 Resp: 144739

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 92 | 65.7 | 52.0 | 78.0 |
| 138 | 93.5 | 76.2 | 114.4 |



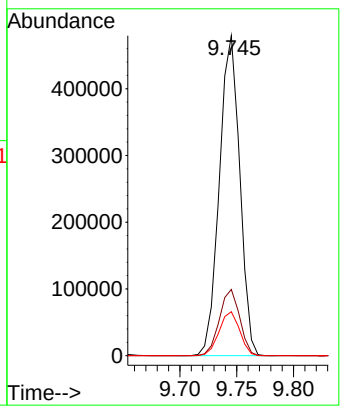


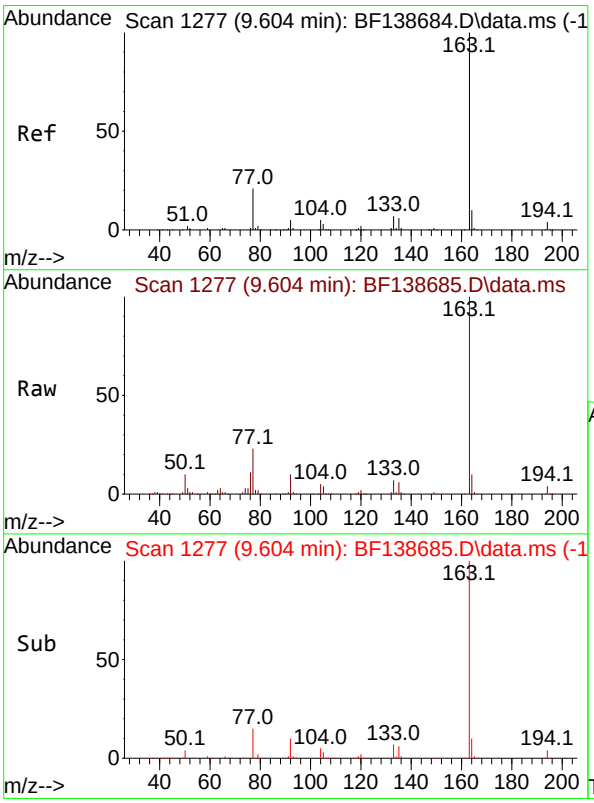

#49
Acenaphthylene
Concen: 47.605 ng
RT: 9.745 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:152 Resp: 599464

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.7 | 16.0 | 24.0 |
| 153 | 13.8 | 11.0 | 16.4 |

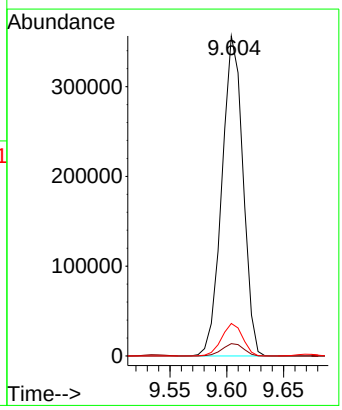


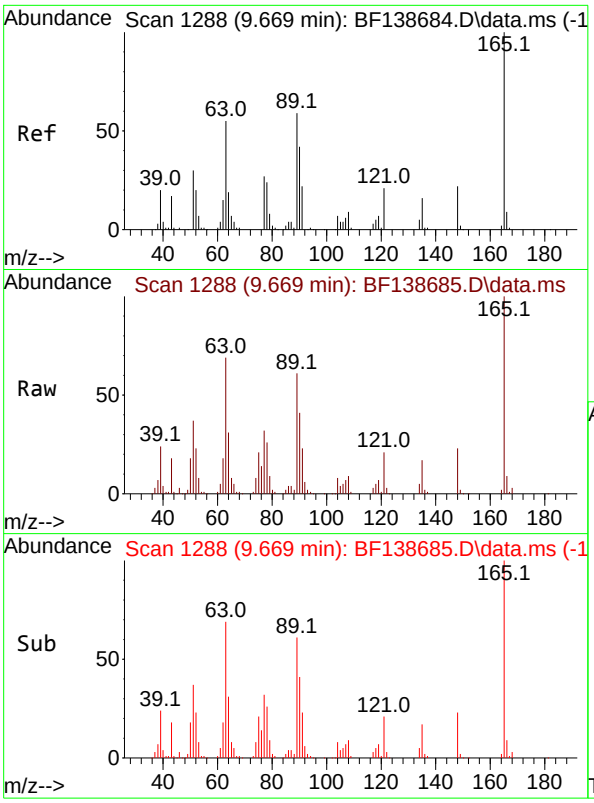




#50
Dimethylphthalate
Concen: 47.244 ng
RT: 9.604 min Scan# 1277
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:163 Resp: 460459

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 3.9 | 3.1 | 4.7 |
| 164 | 10.2 | 7.8 | 11.8 |



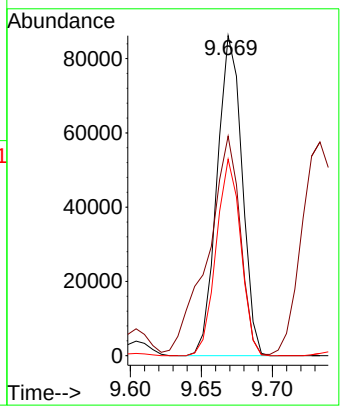


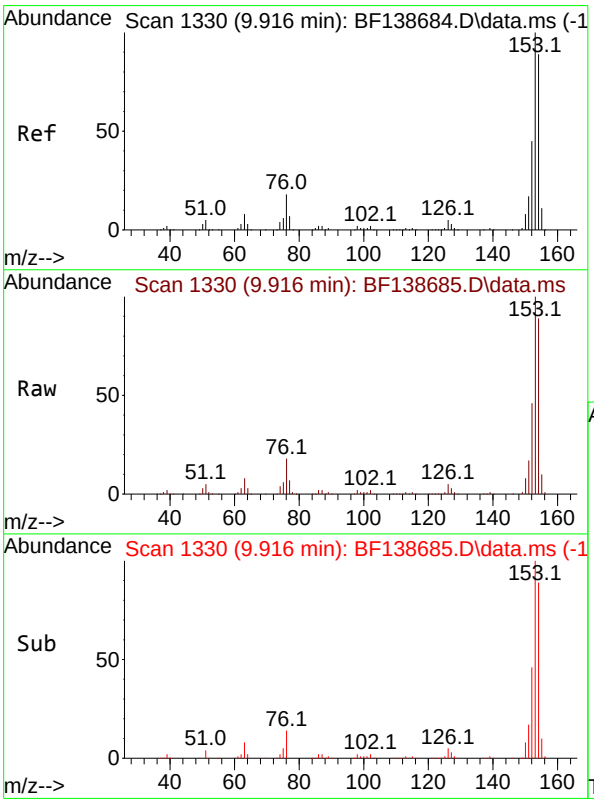

#51
2,6-Dinitrotoluene
Concen: 47.956 ng
RT: 9.669 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:165 Resp: 105483

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 68.6 | 52.0 | 78.0 |
| 89 | 61.4 | 47.0 | 70.6 |

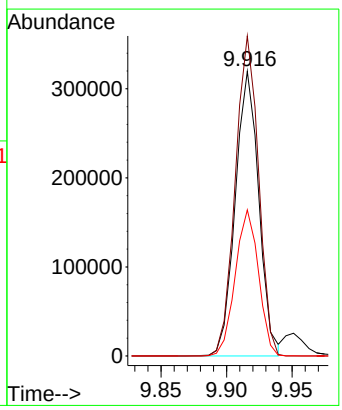


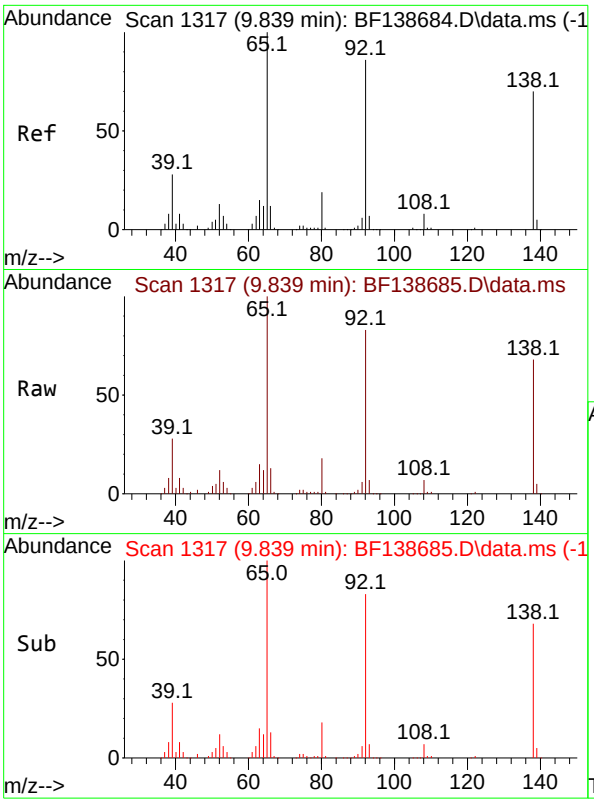




#52
Acenaphthene
Concen: 47.208 ng
RT: 9.916 min Scan# 1330
Delta R.T. -0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:154 Resp: 399608

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 112.4 | 89.9 | 134.9 |
| 152 | 51.3 | 40.6 | 60.8 |



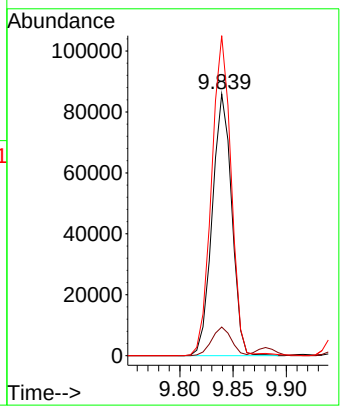


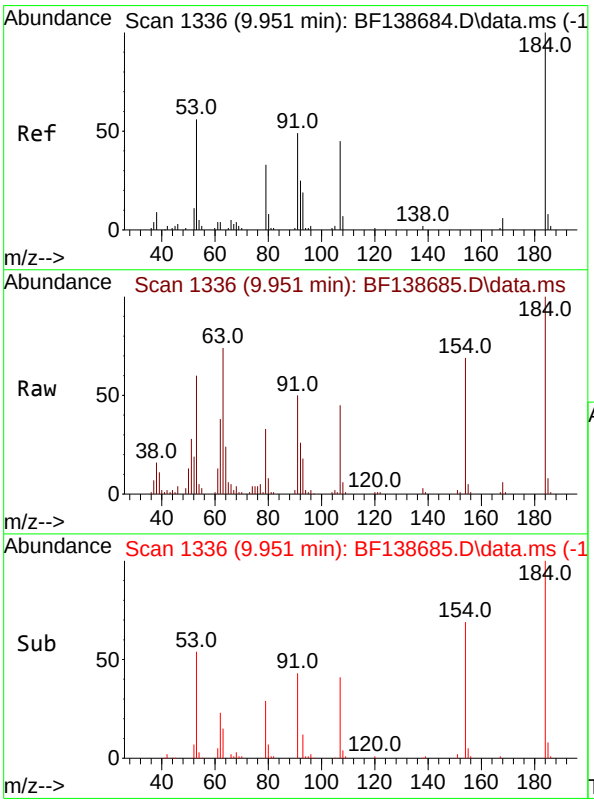

#53
3-Nitroaniline
Concen: 47.915 ng
RT: 9.839 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:138 Resp: 108951

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 108 | 11.0 | 9.1 | 13.7 |
| 92 | 122.3 | 98.7 | 148.1 |

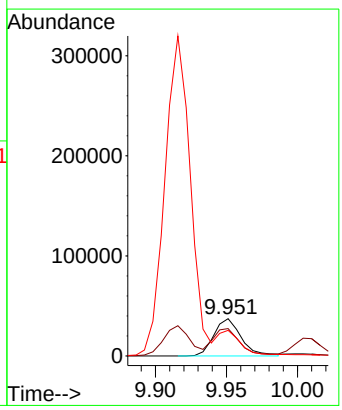


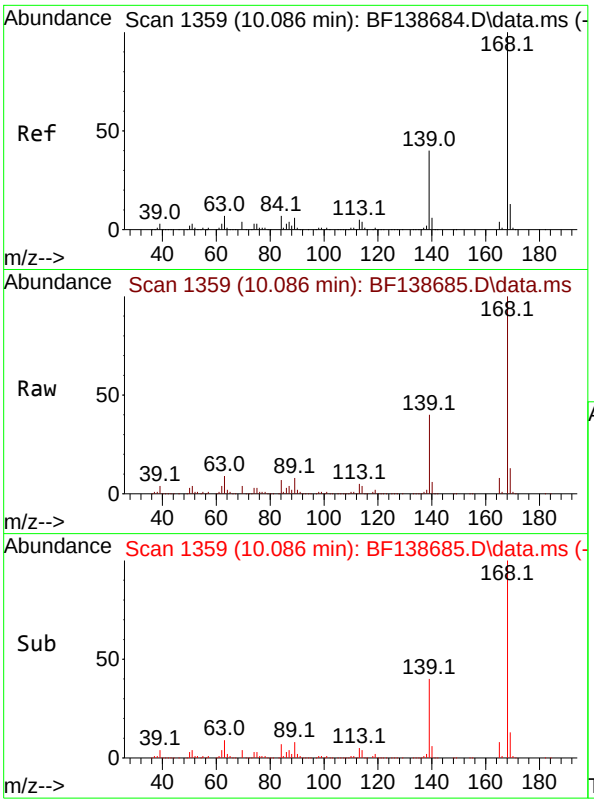




#54
2,4-Dinitrophenol
Concen: 49.361 ng
RT: 9.951 min Scan# 1336
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:184 Resp: 49980

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 63 | 73.5 | 57.5 | 86.3 |
| 154 | 68.7 | 51.7 | 77.5 |



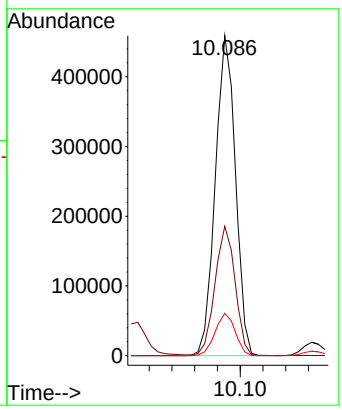


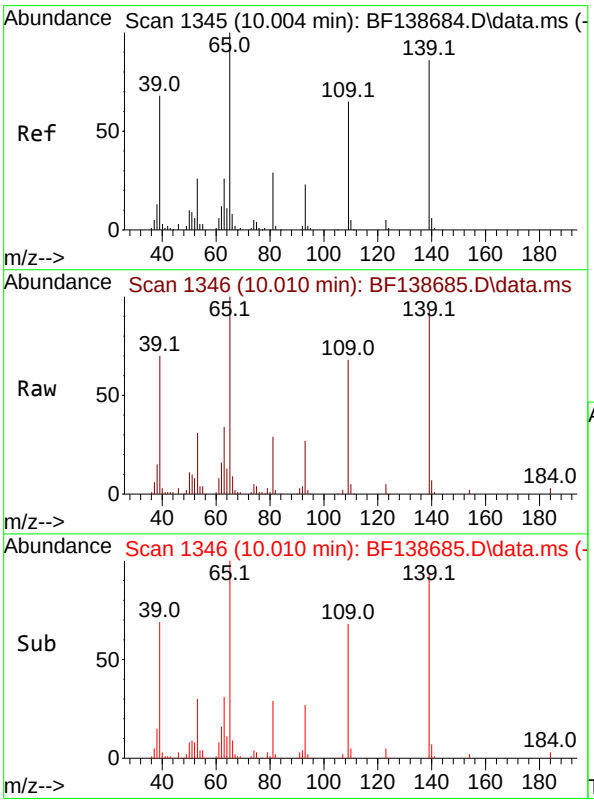

#55
Dibenzofuran
Concen: 47.333 ng
RT: 10.086 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:168 Resp: 565582

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 40.4 | 32.6 | 49.0 |
| 169 | 13.2 | 10.7 | 16.1 |

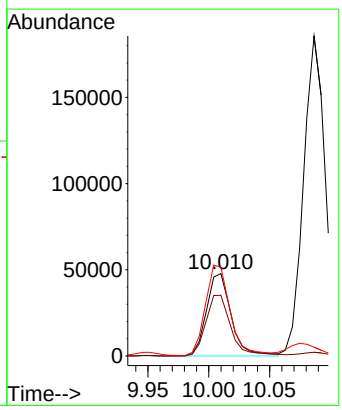


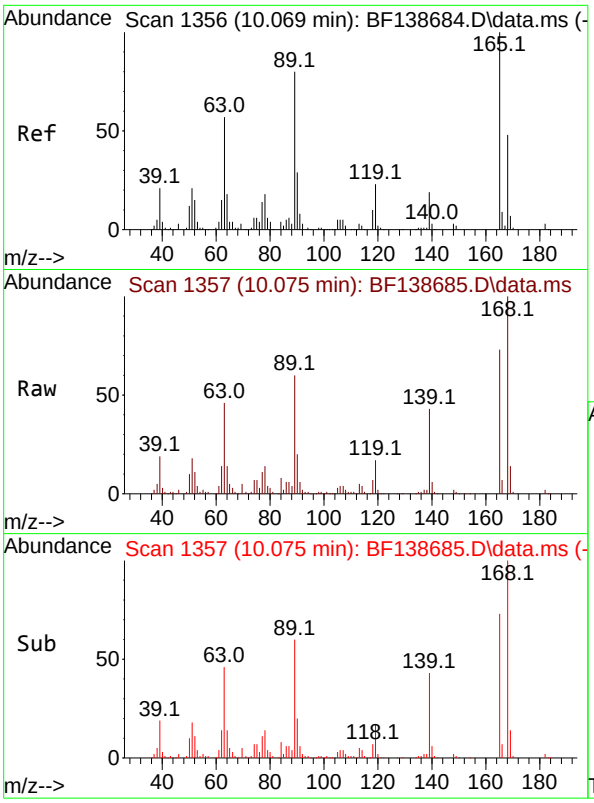




#56
4-Nitrophenol
Concen: 48.943 ng
RT: 10.010 min Scan# 1346
Delta R.T. 0.006 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:139 Resp: 66924

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 73.8 | 55.5 | 95.5 |
| 65 | 107.8 | 96.7 | 136.7 |



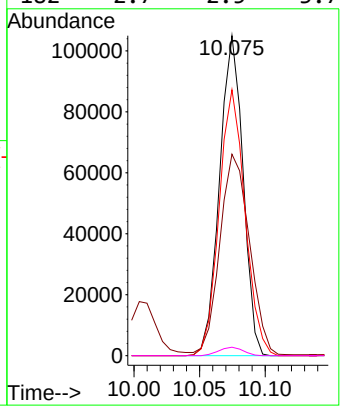


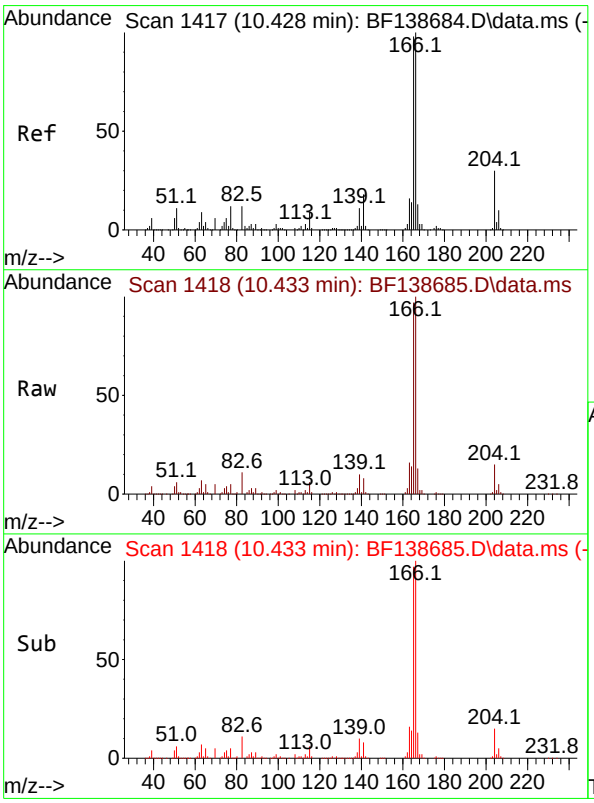

#57
2,4-Dinitrotoluene
Concen: 46.487 ng
RT: 10.075 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:165 Resp: 130457

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 63.0 | 46.3 | 69.5 |
| 89 | 83.1 | 64.2 | 96.4 |
| 182 | 2.7 | 2.5 | 3.7 |

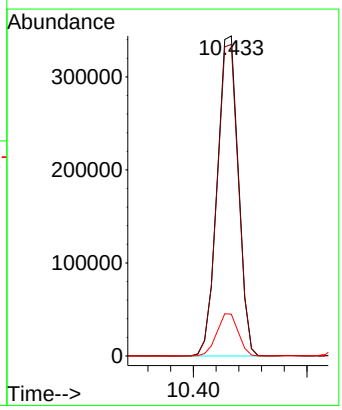


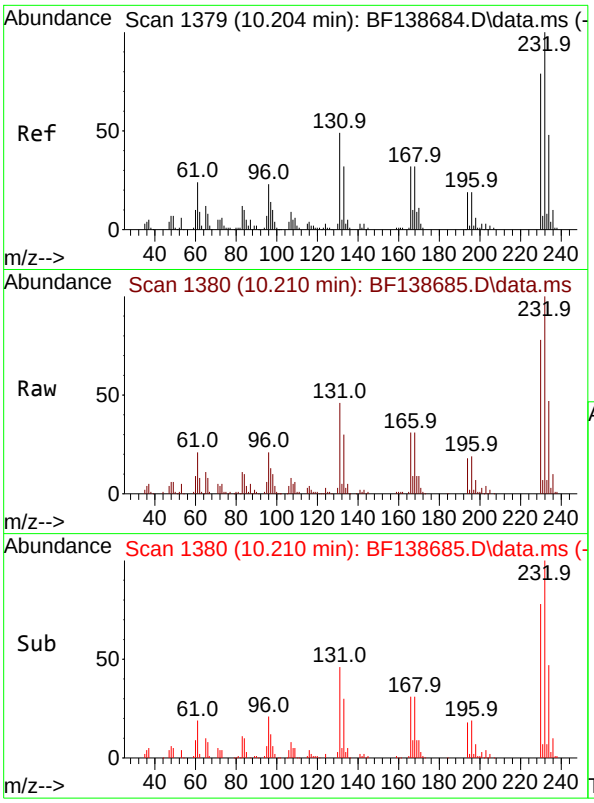




#58
Fluorene
Concen: 46.711 ng
RT: 10.433 min Scan# 1418
Delta R.T. 0.006 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:166 Resp: 444469

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 97.4 | 78.4 | 117.6 |
| 167 | 13.1 | 10.6 | 16.0 |



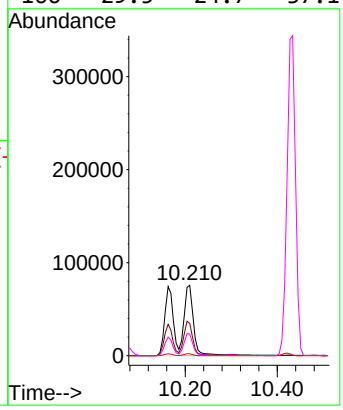


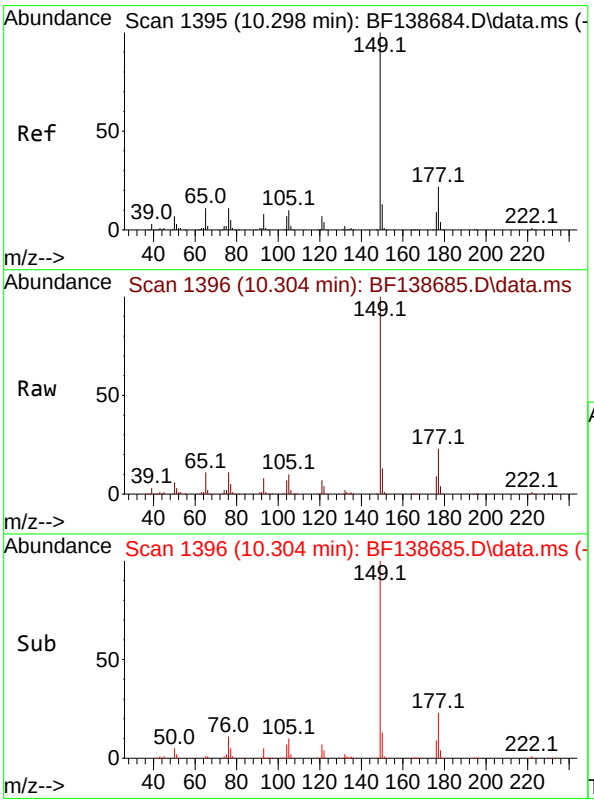

#59
2,3,4,6-Tetrachlorophenol
Concen: 49.402 ng
RT: 10.210 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:232 Resp: 106594

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 232 | 100 | | |
| 131 | 46.1 | 37.0 | 55.4 |
| 130 | 2.5 | 2.0 | 3.0 |
| 166 | 29.5 | 24.7 | 37.1 |

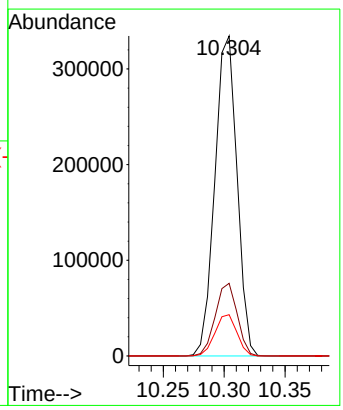


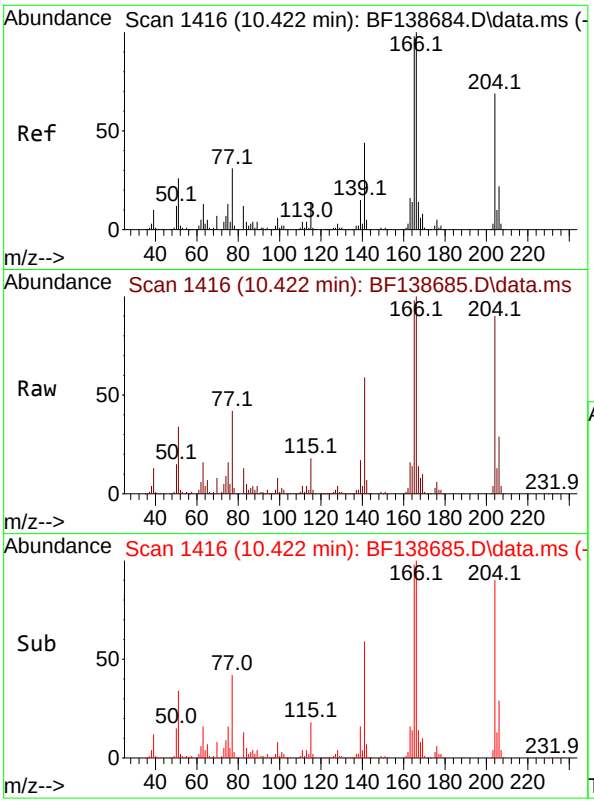




#60
Diethylphthalate
Concen: 45.886 ng
RT: 10.304 min Scan# 1396
Delta R.T. 0.006 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:149 Resp: 424041

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 177 | 22.7 | 17.8 | 26.8 |
| 150 | 12.9 | 10.1 | 15.1 |



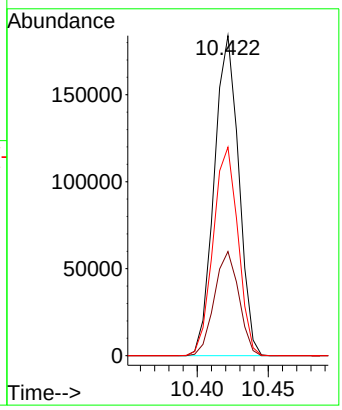


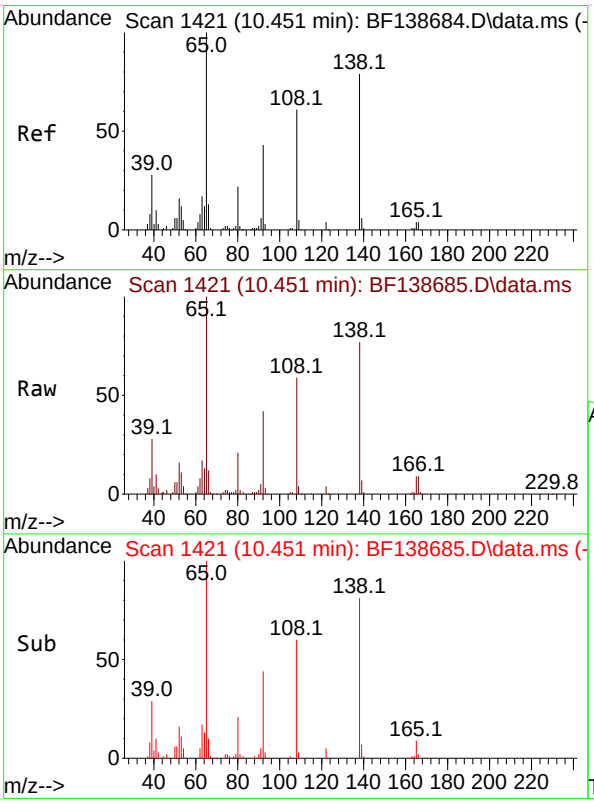

#61
4-Chlorophenyl-phenylether
Concen: 47.209 ng
RT: 10.422 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:204 Resp: 220930

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 204 | 100 | | |
| 206 | 32.6 | 26.1 | 39.1 |
| 141 | 65.2 | 51.4 | 77.0 |

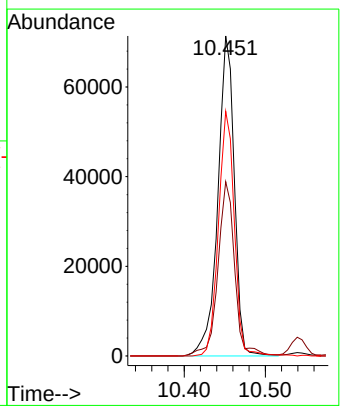


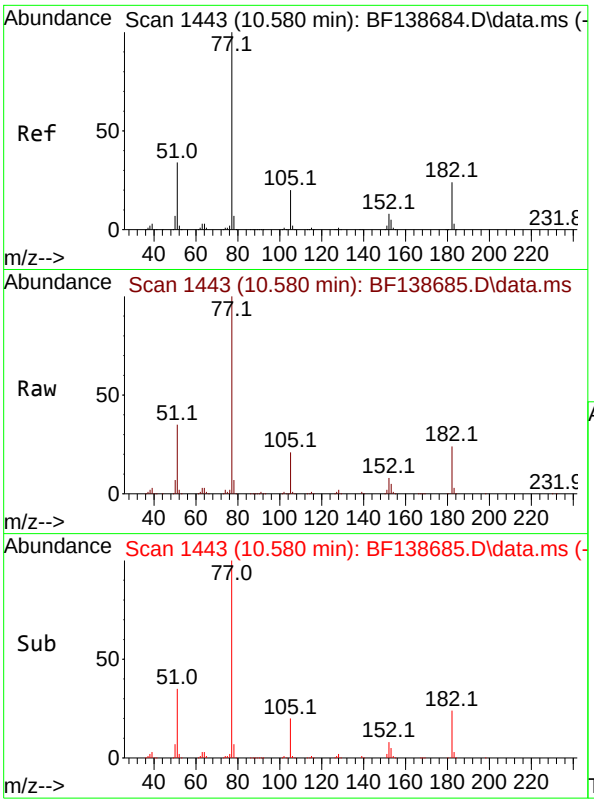




#62
4-Nitroaniline
Concen: 46.819 ng
RT: 10.451 min Scan# 1421
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:138 Resp: 101171

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 54.4 | 34.2 | 74.2 |
| 108 | 76.5 | 56.2 | 96.2 |



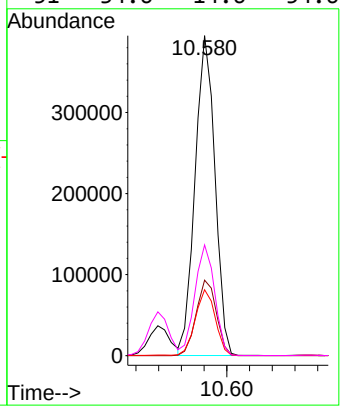


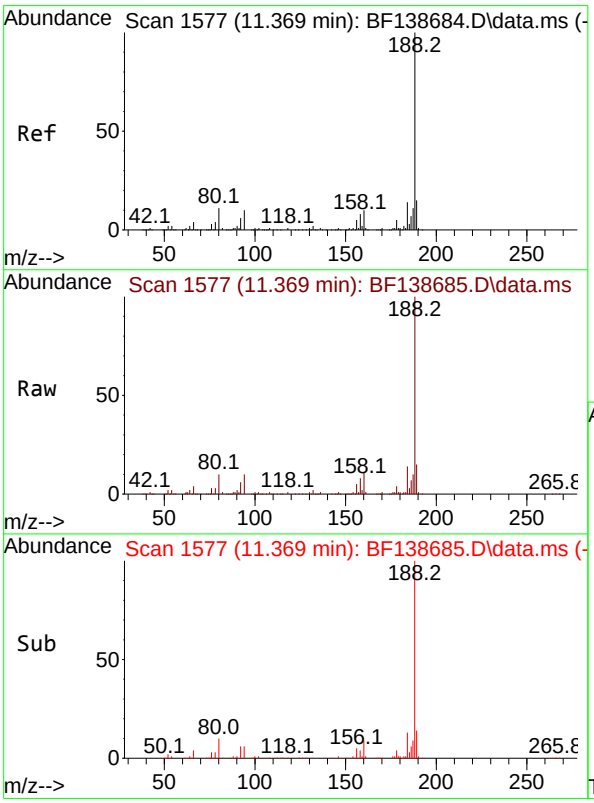

#63
Azobenzene
Concen: 46.818 ng
RT: 10.580 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion: 77 Resp: 479859

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 182 | 23.6 | 3.4 | 43.4 |
| 105 | 20.6 | 0.2 | 40.2 |
| 51 | 34.6 | 14.6 | 54.6 |

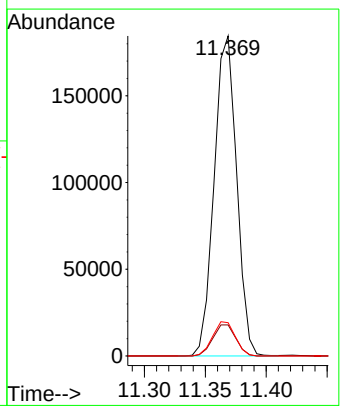


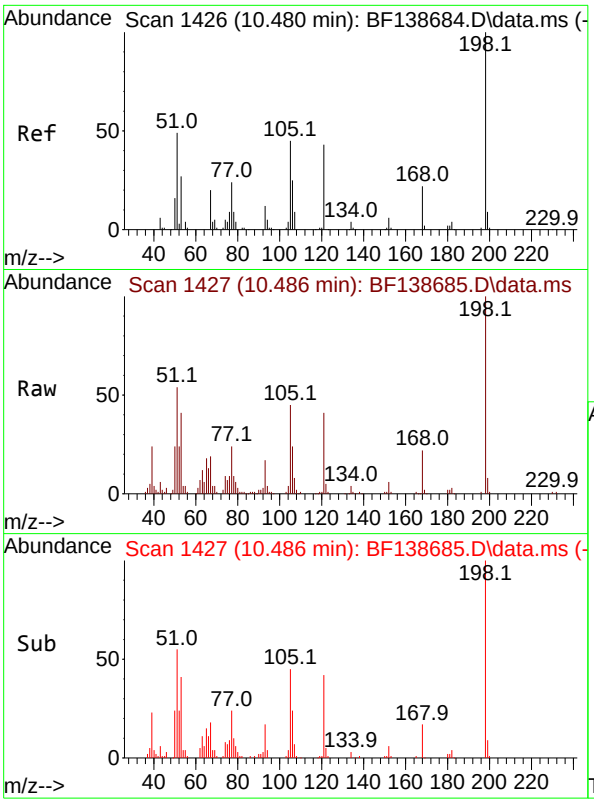




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.369 min Scan# 1577
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:188 Resp: 237060

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 9.7 | 7.6 | 11.4 |
| 80 | 10.4 | 8.6 | 12.8 |



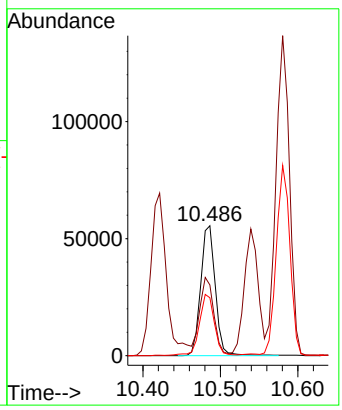


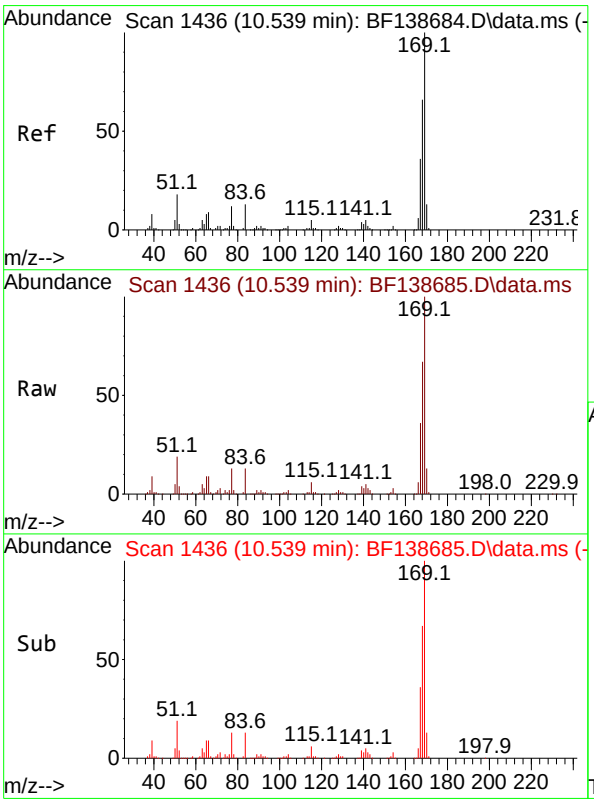

#65
4,6-Dinitro-2-methylphenol
Concen: 50.244 ng
RT: 10.486 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:198 Resp: 72667

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 54.4 | 39.9 | 79.9 |
| 105 | 44.7 | 26.1 | 66.1 |

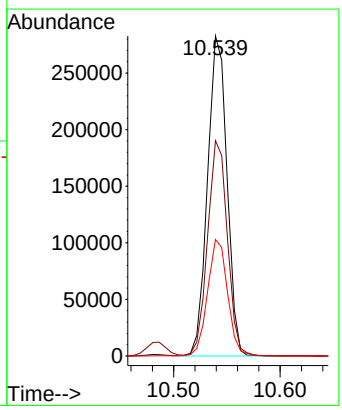


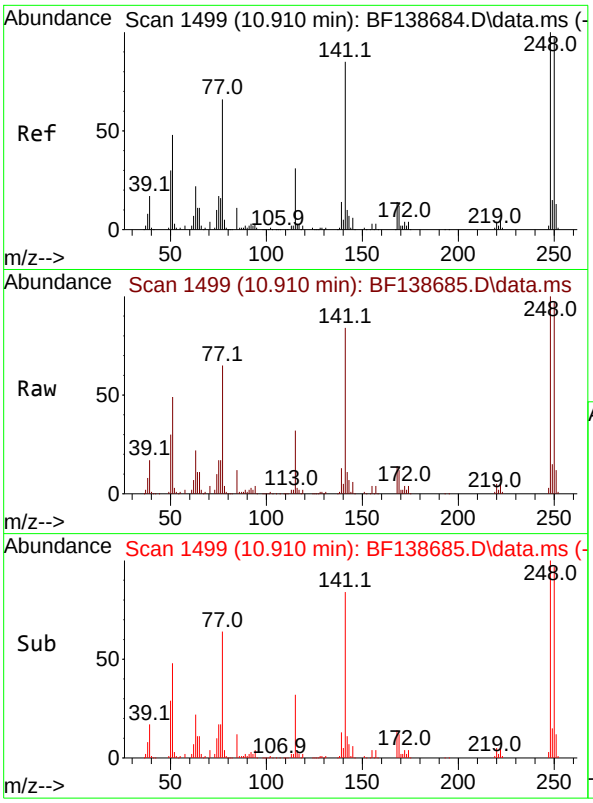




#66
n-Nitrosodiphenylamine
Concen: 48.503 ng
RT: 10.539 min Scan# 1436
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:169 Resp: 359408

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 67.3 | 53.0 | 79.6 |
| 167 | 36.4 | 29.0 | 43.6 |



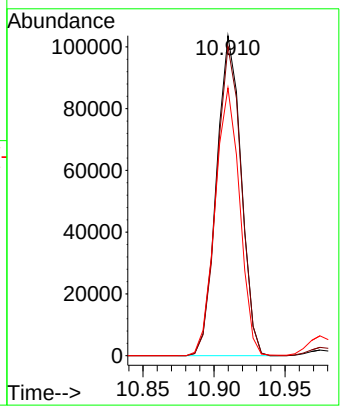


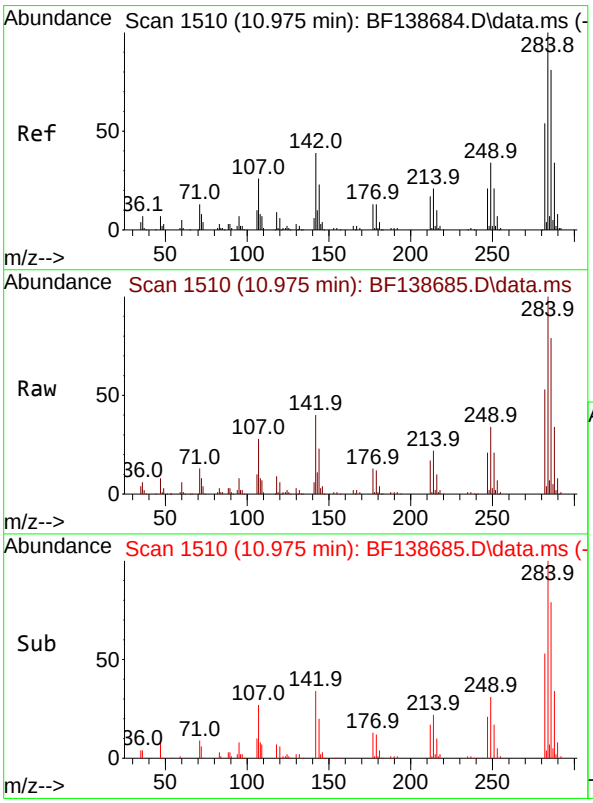

#67
4-Bromophenyl-phenylether
Concen: 48.653 ng
RT: 10.910 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:248 Resp: 124874

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 96.6 | 77.7 | 116.5 |
| 141 | 83.7 | 68.0 | 102.0 |

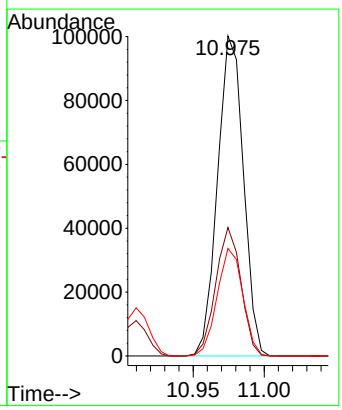


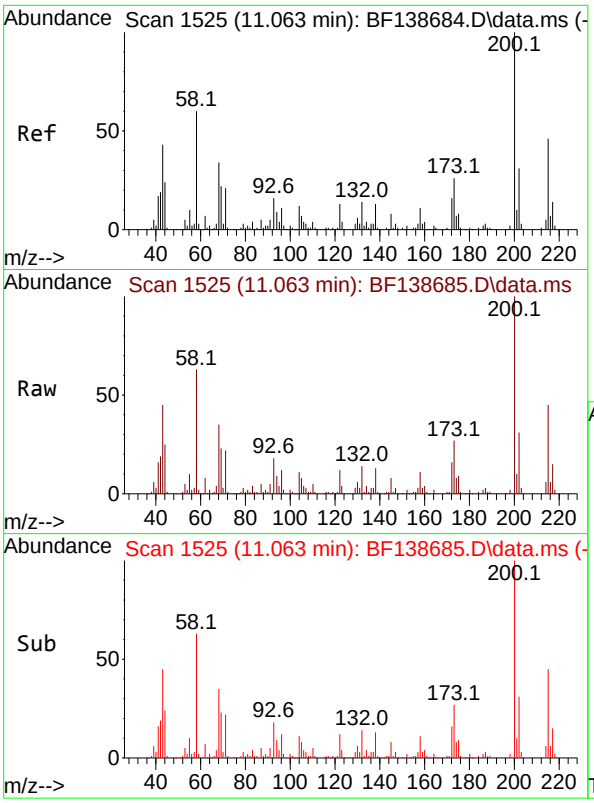




#68
Hexachlorobenzene
Concen: 47.827 ng
RT: 10.975 min Scan# 1510
Delta R.T. -0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:284 Resp: 126744

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 40.2 | 31.3 | 46.9 |
| 249 | 33.6 | 27.2 | 40.8 |



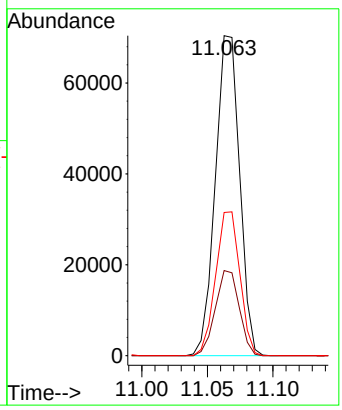


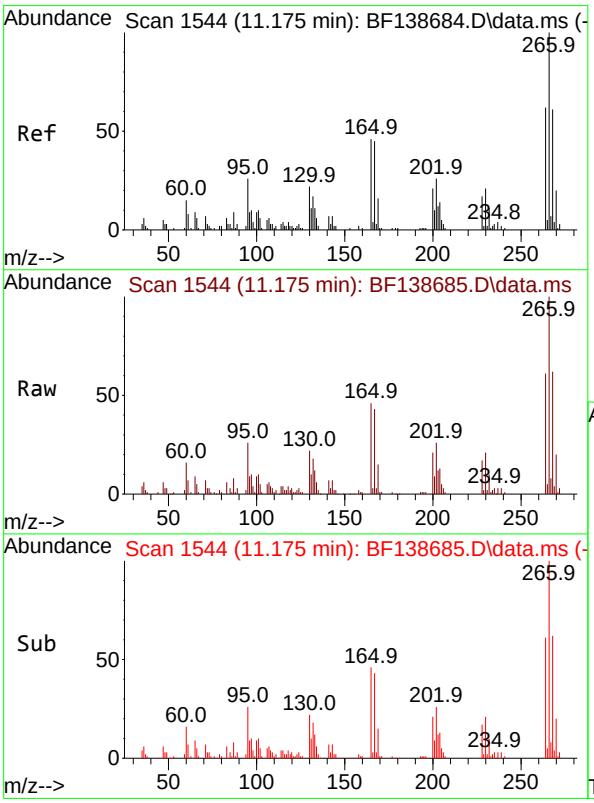

#69
Atrazine
Concen: 47.380 ng
RT: 11.063 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:200 Resp: 90580

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 26.6 | 6.0 | 46.0 |
| 215 | 44.8 | 26.1 | 66.1 |

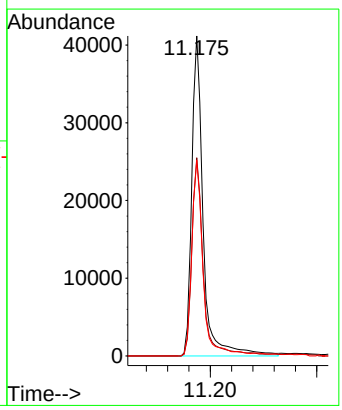


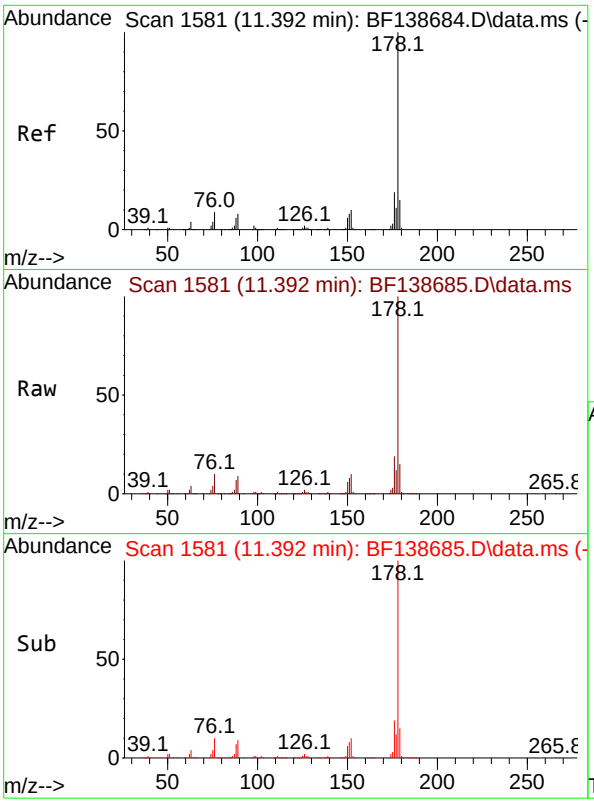




#70
Pentachlorophenol
Concen: 51.390 ng
RT: 11.175 min Scan# 1544
Delta R.T. -0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:266 Resp: 61385

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 268 | 61.9 | 49.2 | 73.8 |
| 264 | 61.2 | 49.8 | 74.6 |



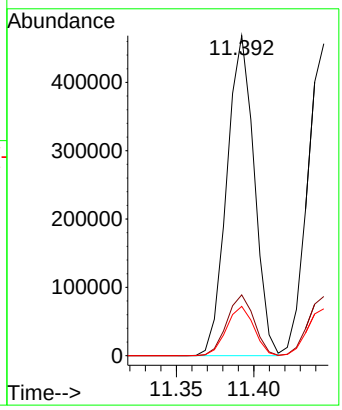


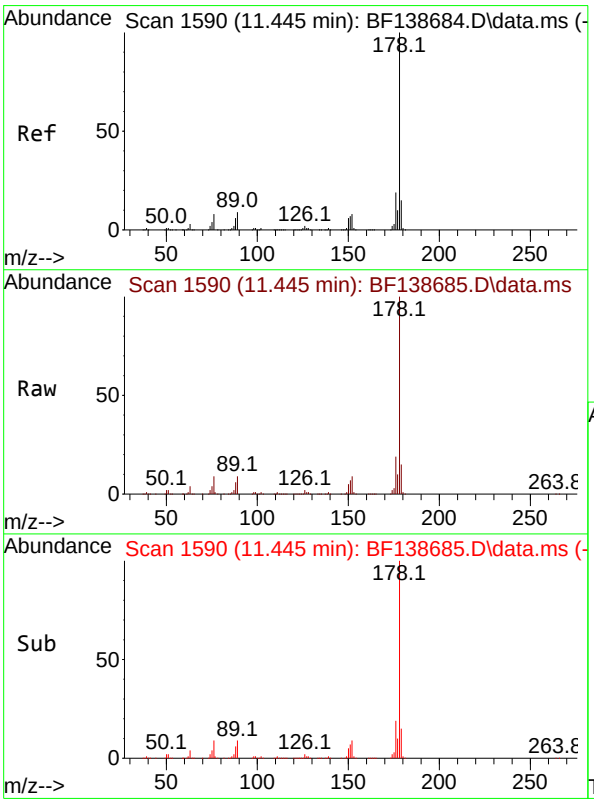

#71
Phenanthrene
Concen: 47.109 ng
RT: 11.392 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:178 Resp: 575040

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.0 | 15.4 | 23.0 |
| 179 | 15.4 | 12.2 | 18.2 |

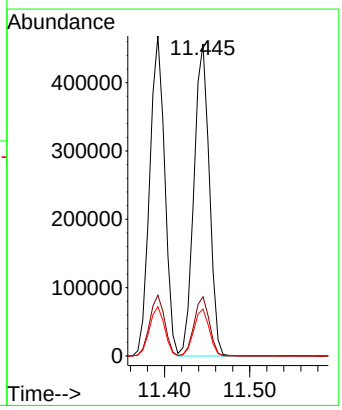


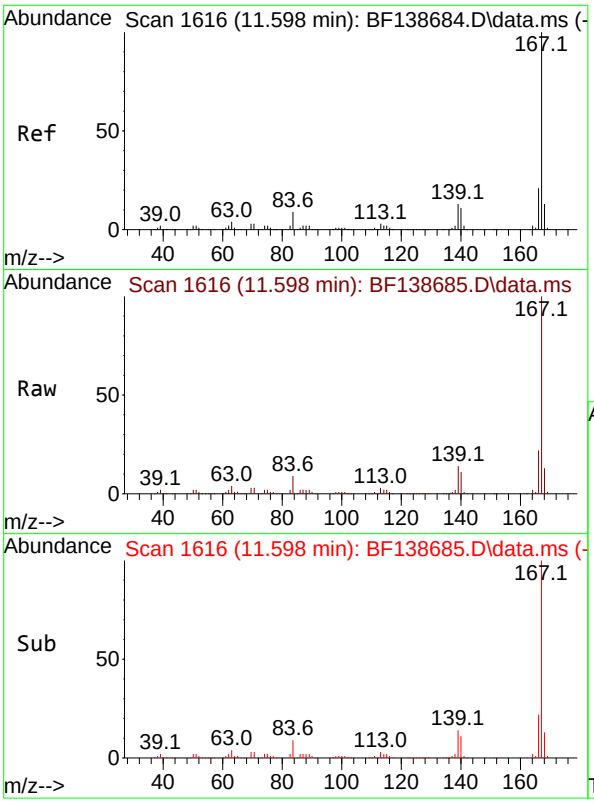




#72
Anthracene
Concen: 47.539 ng
RT: 11.445 min Scan# 1590
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:178 Resp: 571666

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.0 | 14.9 | 22.3 |
| 179 | 15.0 | 12.4 | 18.6 |



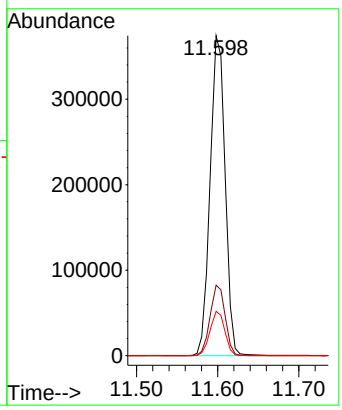


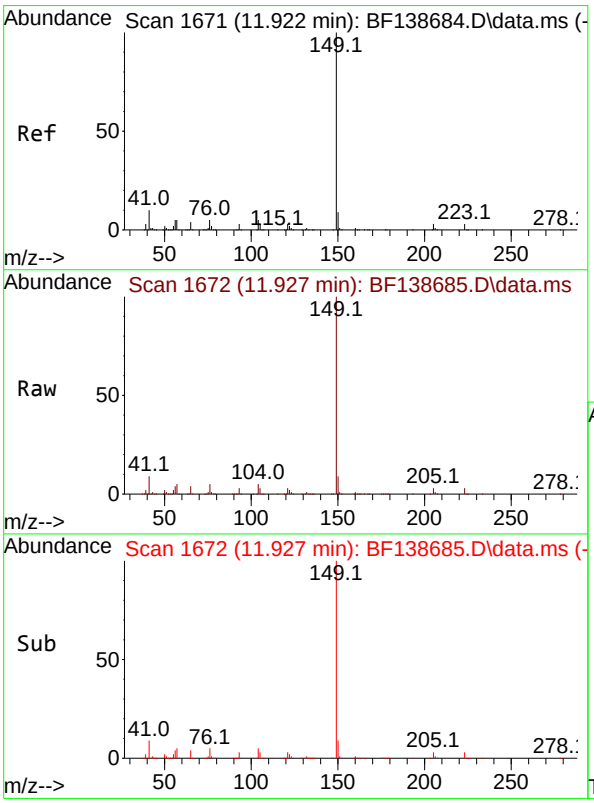

#73
Carbazole
Concen: 46.275 ng
RT: 11.598 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:167 Resp: 480092

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 22.1 | 17.2 | 25.8 |
| 139 | 13.9 | 10.6 | 16.0 |

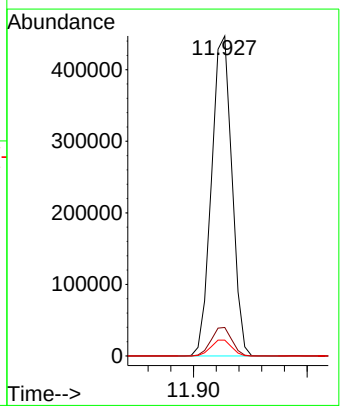


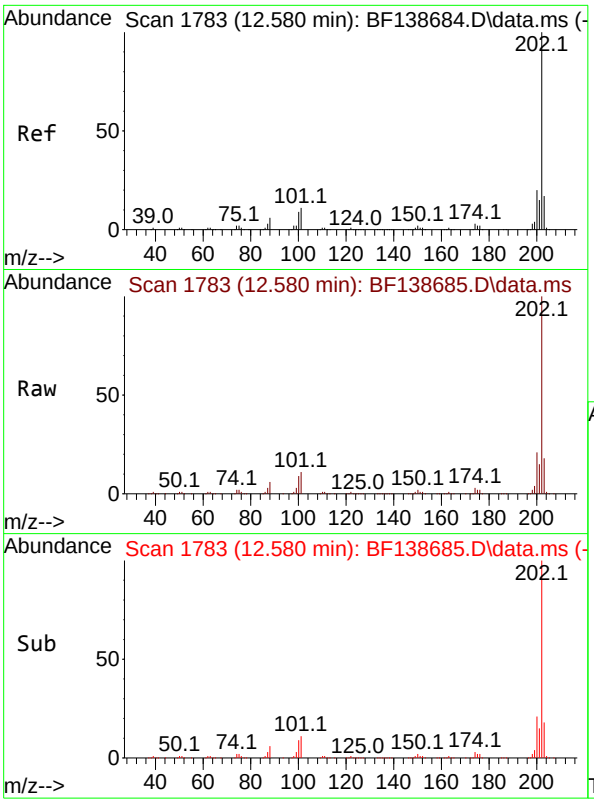




#74
Di-n-butylphthalate
Concen: 47.956 ng
RT: 11.927 min Scan# 1672
Delta R.T. 0.006 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:149 Resp: 559303

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 8.9 | 7.4 | 11.0 |
| 104 | 5.0 | 4.1 | 6.1 |



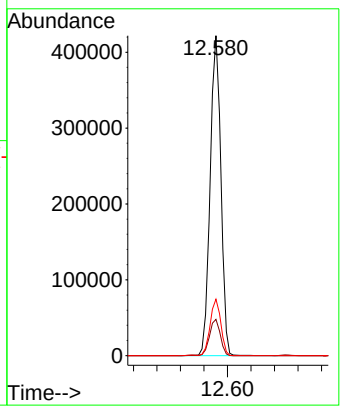


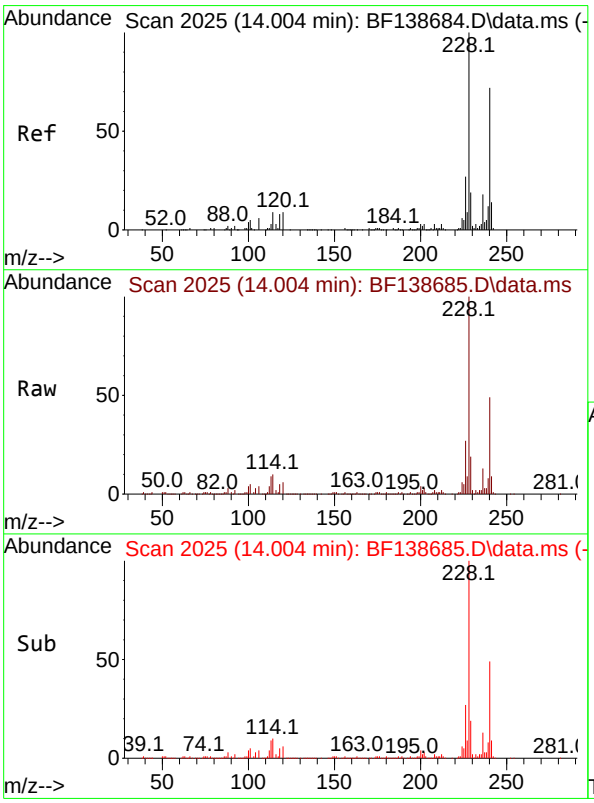

#75
Fluoranthene
Concen: 46.772 ng
RT: 12.580 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:202 Resp: 533004

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.4 | 0.0 | 31.2 |
| 203 | 17.7 | 0.0 | 37.3 |

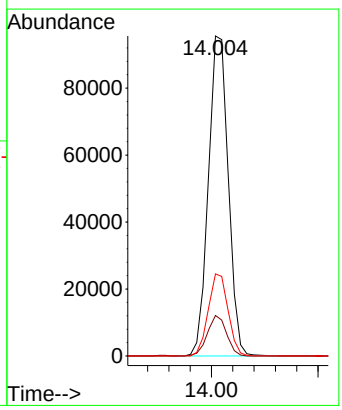


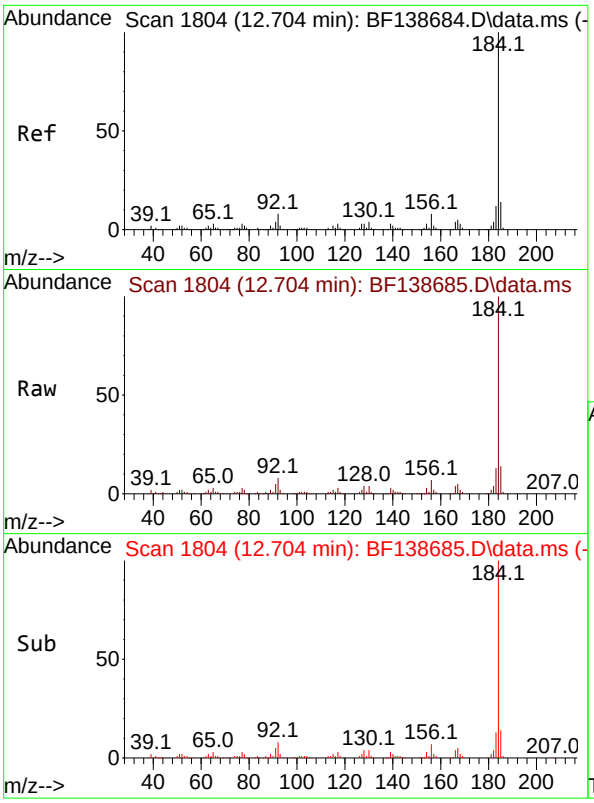




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.004 min Scan# 2025
Delta R.T. -0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:240 Resp: 124208

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 12.7 | 10.2 | 15.4 |
| 236 | 25.7 | 19.8 | 29.8 |



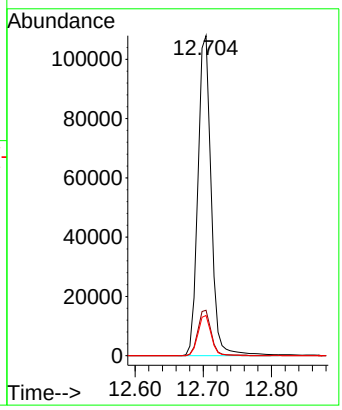


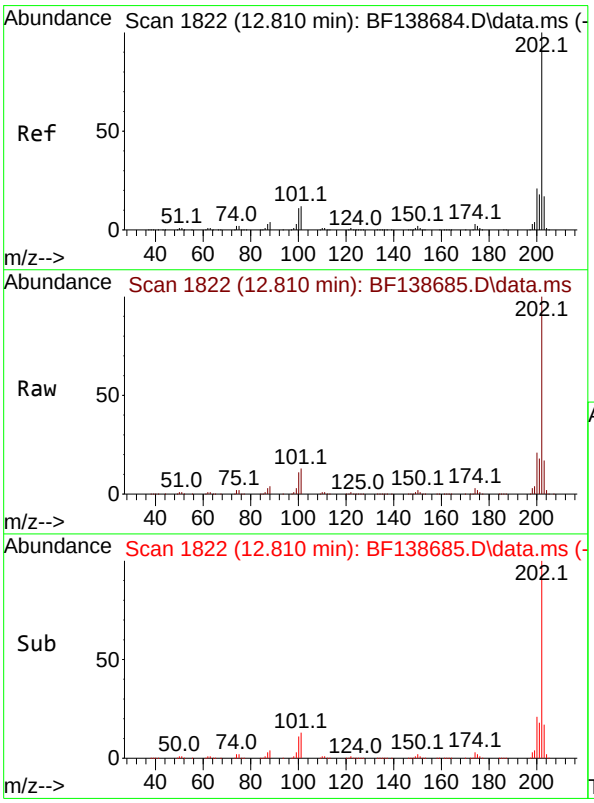

#77
Benzidine
Concen: 49.129 ng
RT: 12.704 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:184 Resp: 145955

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 185 | 14.2 | 11.1 | 16.7 |
| 183 | 12.6 | 9.6 | 14.4 |

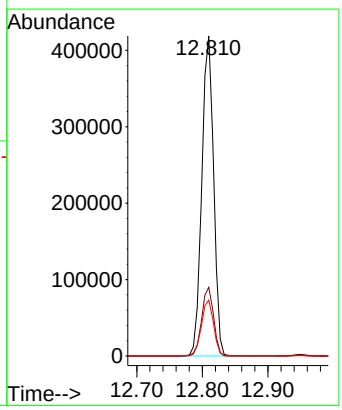


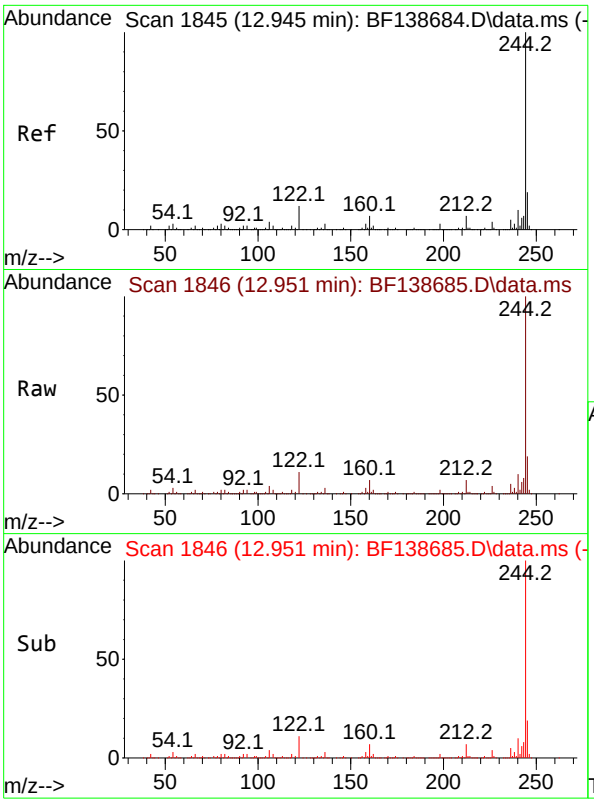




#78
Pyrene
Concen: 44.974 ng
RT: 12.810 min Scan# 1822
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:202 Resp: 525950

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.5 | 16.8 | 25.2 |
| 203 | 17.5 | 13.8 | 20.6 |



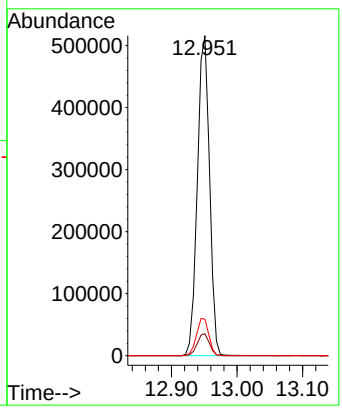


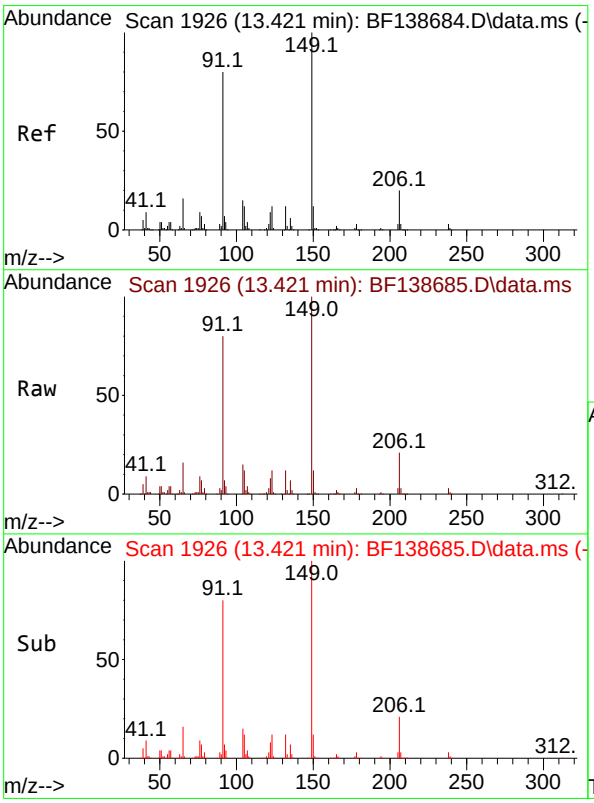

#79
Terphenyl-d14
Concen: 89.751 ng
RT: 12.951 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:244 Resp: 665833

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 6.8 | 5.4 | 8.2 |
| 122 | 11.4 | 9.6 | 14.4 |

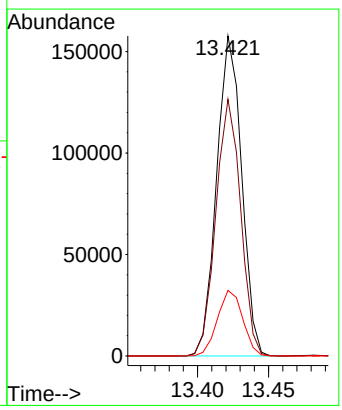


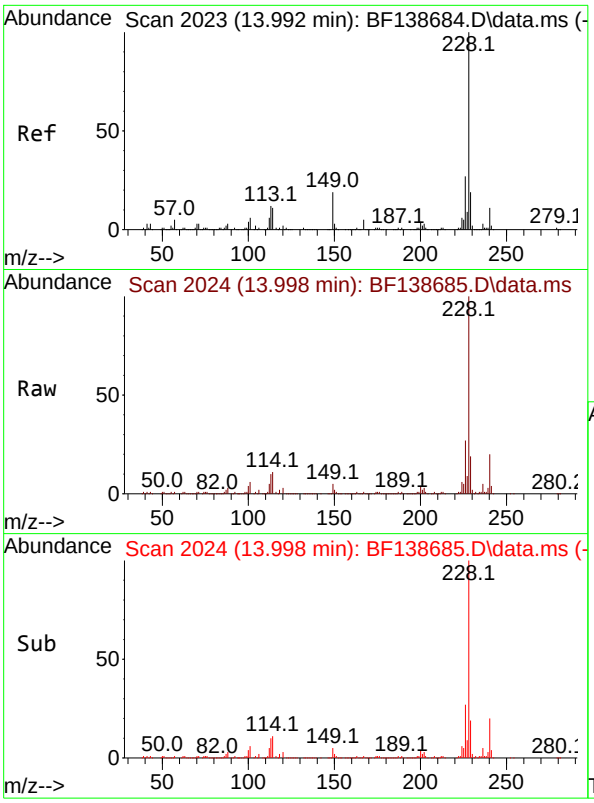




#80
Butylbenzylphthalate
Concen: 51.575 ng
RT: 13.421 min Scan# 1926
Delta R.T. -0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:149 Resp: 193143

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 91 | 80.2 | 63.7 | 95.5 |
| 206 | 20.5 | 16.2 | 24.2 |



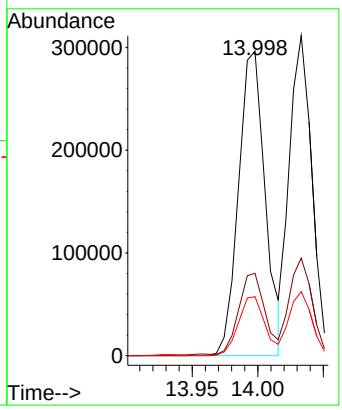


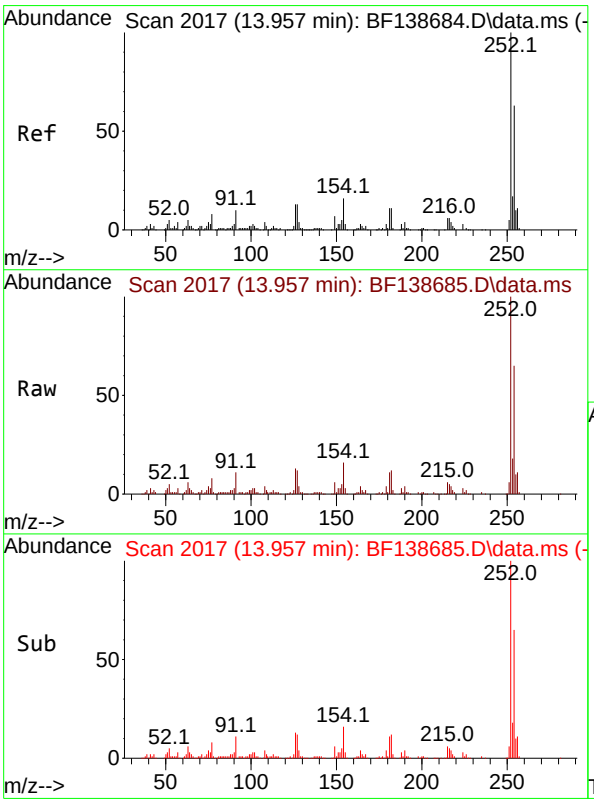

#81
Benzo(a)anthracene
Concen: 49.040 ng
RT: 13.998 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:228 Resp: 419449

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.1 | 22.1 | 33.1 |
| 229 | 19.4 | 15.4 | 23.0 |

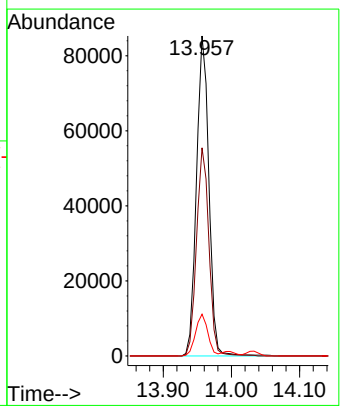


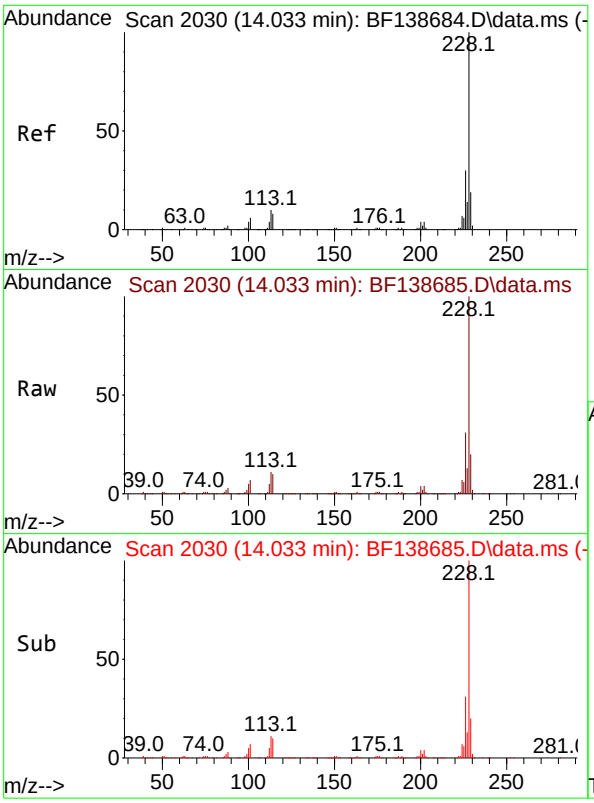




#82
3,3'-Dichlorobenzidine
Concen: 49.088 ng
RT: 13.957 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:252 Resp: 107444

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 65.0 | 50.8 | 76.2 |
| 126 | 13.1 | 10.2 | 15.2 |



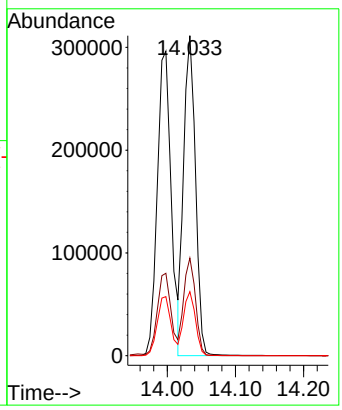


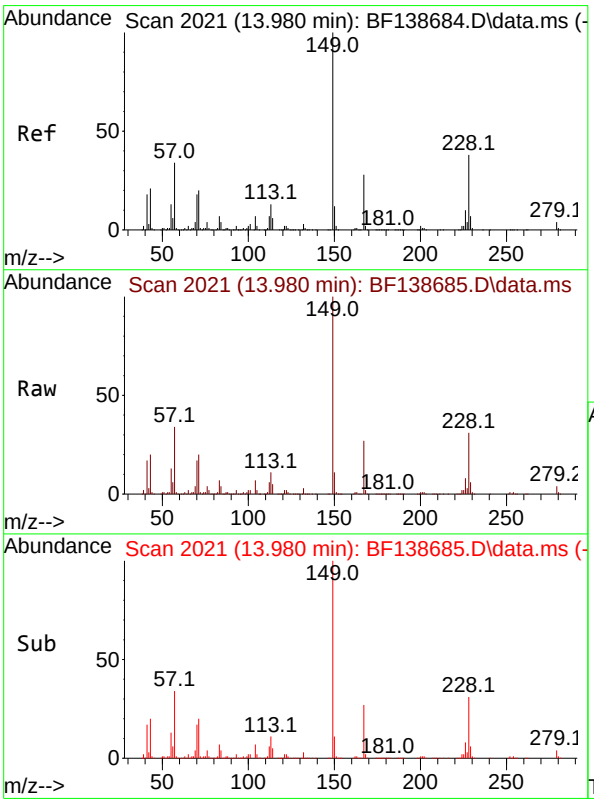

#83
Chrysene
Concen: 48.391 ng
RT: 14.033 min Scan# 2(
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:228 Resp: 373417

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.5 | 23.7 | 35.5 |
| 229 | 20.0 | 15.0 | 22.6 |

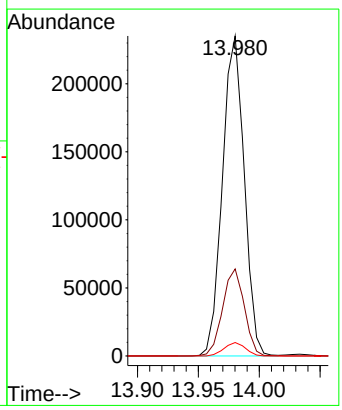


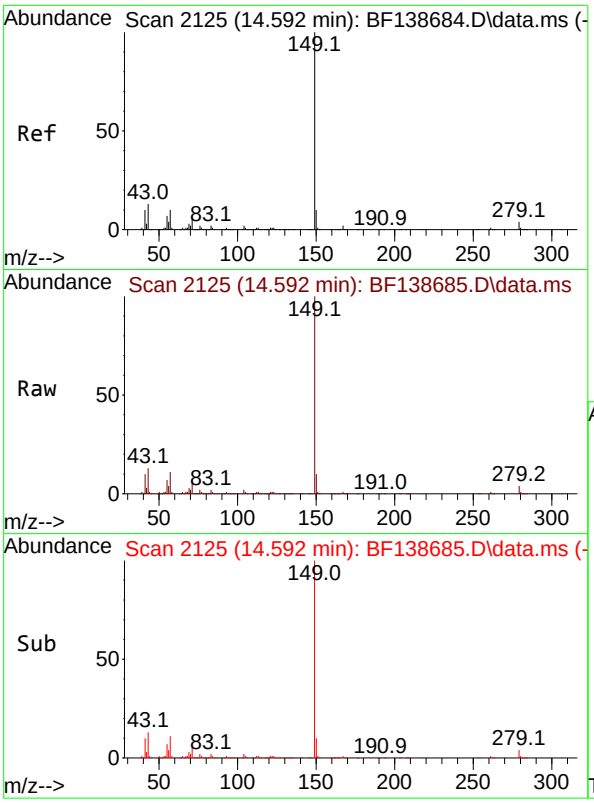




#84
Bis(2-ethylhexyl)phthalate
Concen: 53.519 ng
RT: 13.980 min Scan# 2021
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:149 Resp: 293490

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 27.2 | 22.2 | 33.4 |
| 279 | 4.2 | 3.4 | 5.0 |



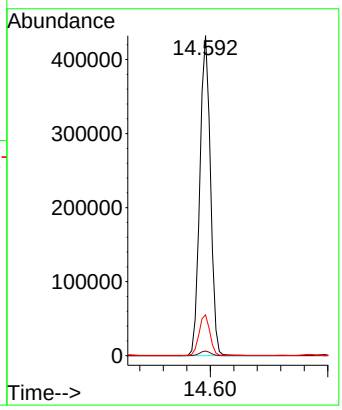


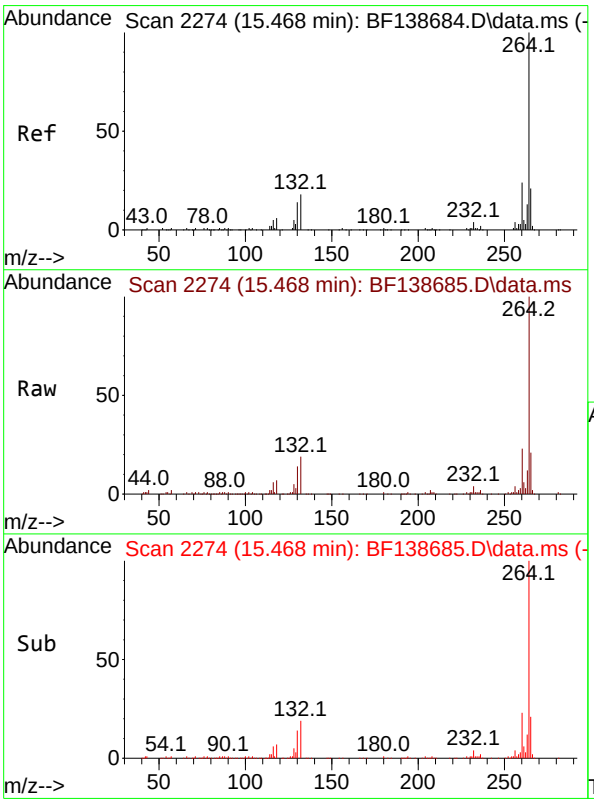

#85
Di-n-octyl phthalate
Concen: 53.306 ng
RT: 14.592 min Scan# 21
Delta R.T. -0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:149 Resp: 540838

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 1.5 | 1.4 | 2.0 |
| 43 | 13.0 | 10.4 | 15.6 |

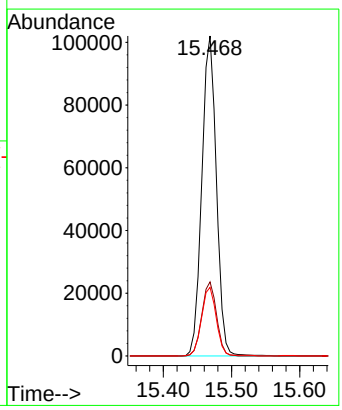


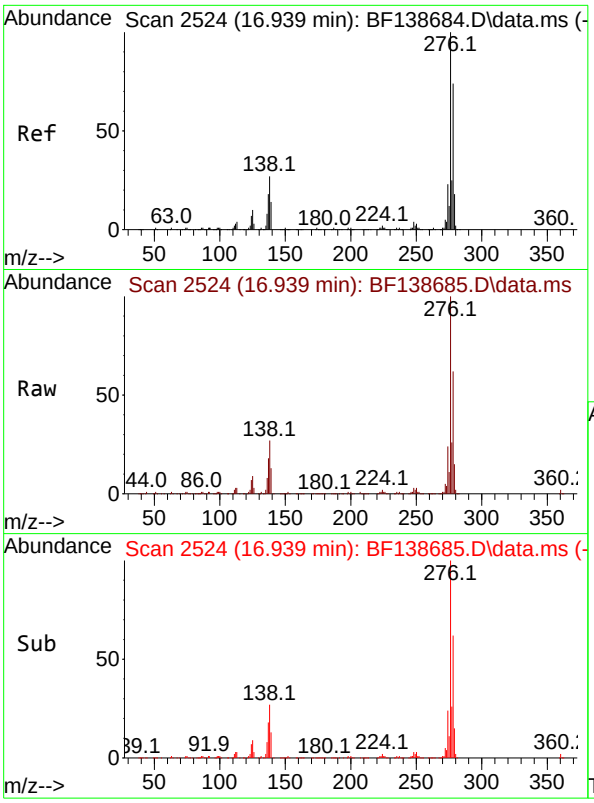




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.468 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:264 Resp: 151751

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.2 | 19.0 | 28.6 |
| 265 | 21.5 | 17.0 | 25.6 |



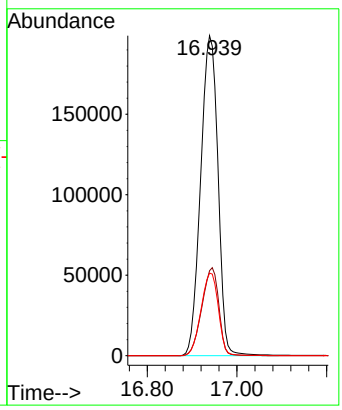


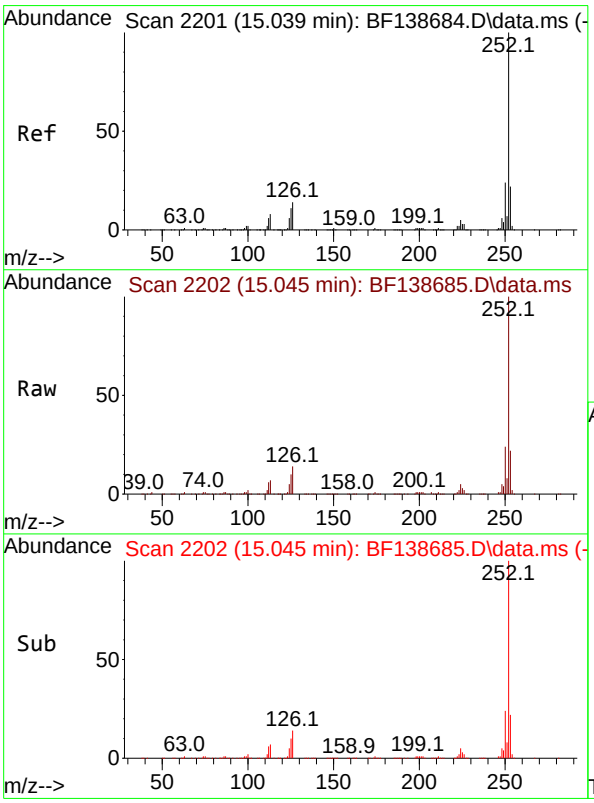

#87
Indeno(1,2,3-cd)pyrene
Concen: 49.039 ng
RT: 16.939 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:276 Resp: 533298

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 26.9 | 21.8 | 32.8 |
| 277 | 25.8 | 20.6 | 30.8 |

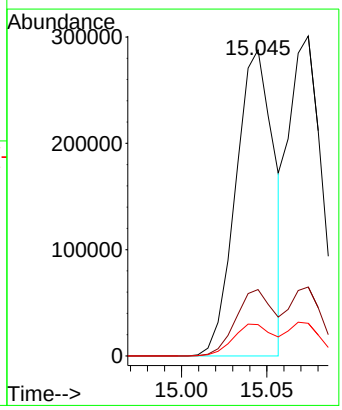


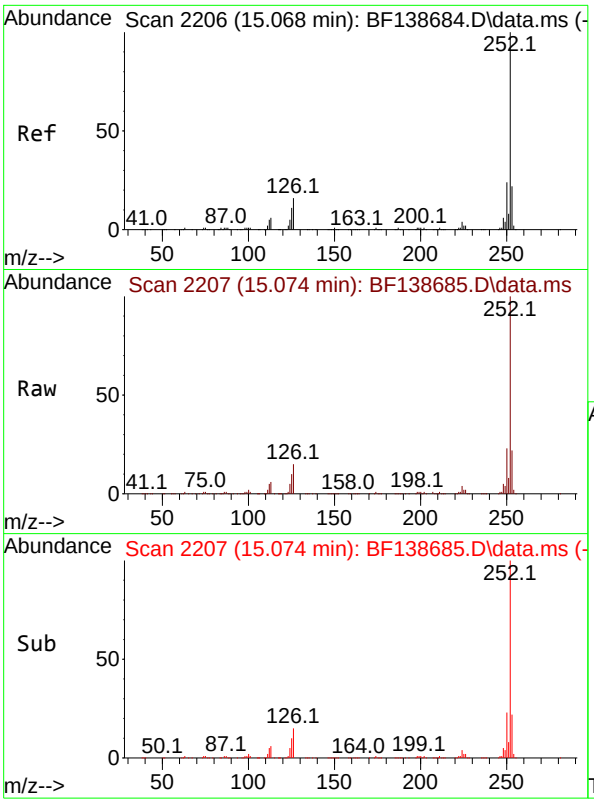




#88
Benzo(b)fluoranthene
Concen: 47.613 ng
RT: 15.045 min Scan# 2202
Delta R.T. 0.006 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:252 Resp: 447896

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.7 | 17.5 | 26.3 |
| 125 | 10.3 | 8.9 | 13.3 |



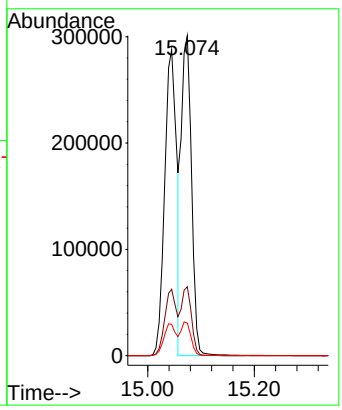


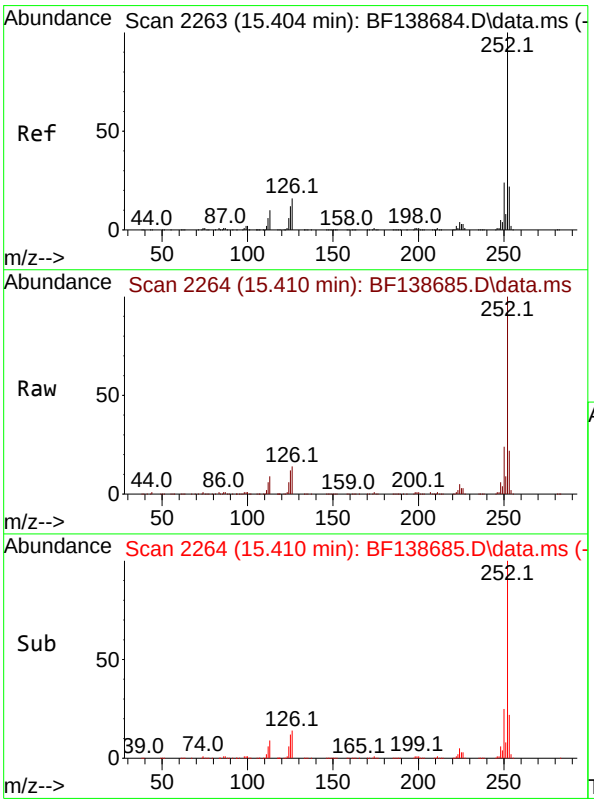

#89
Benzo(k)fluoranthene
Concen: 49.358 ng
RT: 15.074 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:252 Resp: 402008

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.6 | 17.4 | 26.0 |
| 125 | 10.2 | 8.6 | 13.0 |

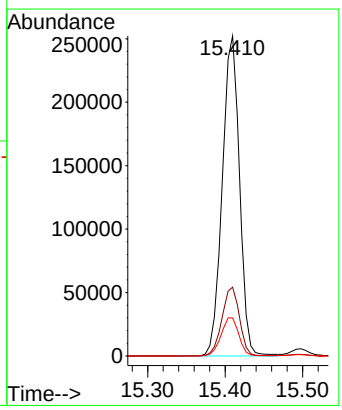


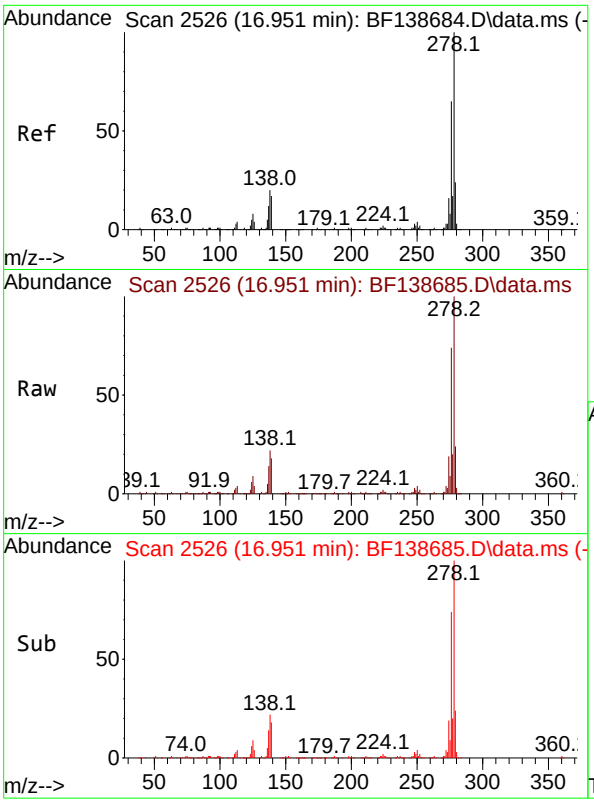




#90
Benzo(a)pyrene
Concen: 49.199 ng
RT: 15.410 min Scan# 2264
Delta R.T. 0.006 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:252 Resp: 389298

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.5 | 17.3 | 25.9 |
| 125 | 11.9 | 9.5 | 14.3 |



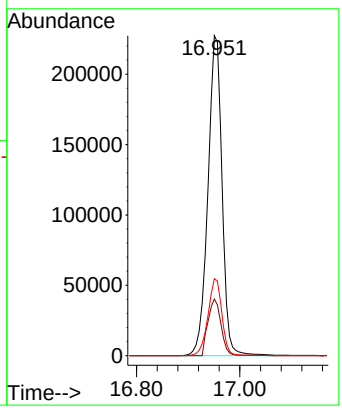


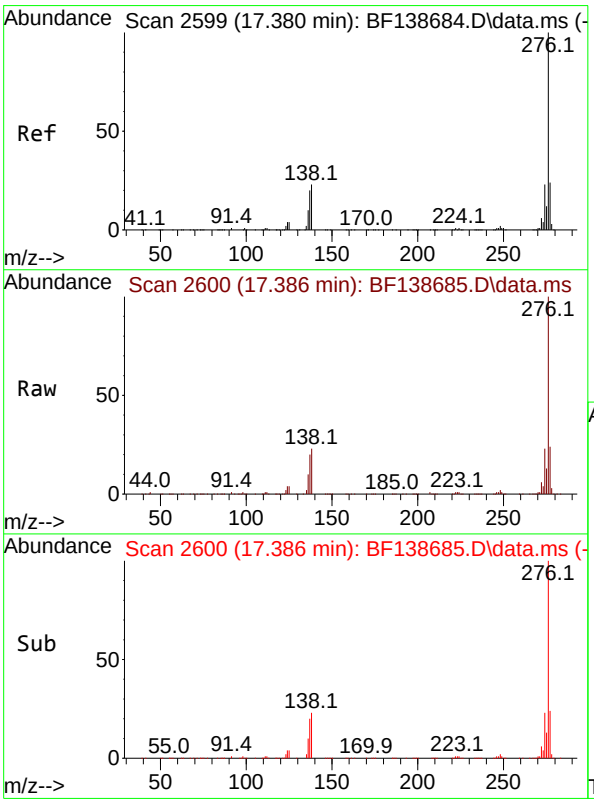

#91
Dibenzo(a,h)anthracene
Concen: 48.460 ng
RT: 16.951 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:278 Resp: 432604

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 17.7 | 14.0 | 21.0 |
| 279 | 24.1 | 19.0 | 28.4 |

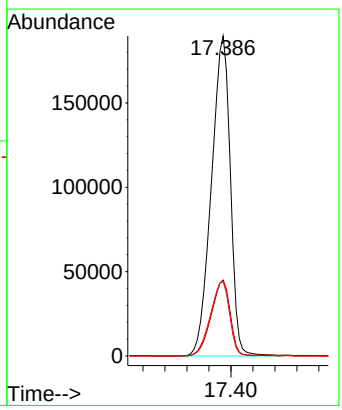



#92
Benzo(g,h,i)perylene
Concen: 48.997 ng
RT: 17.386 min Scan# 2600
Delta R.T. 0.006 min
Lab File: BF138685.D
Acq: 30 Jul 2024 15:27

Tgt Ion:276 Resp: 453886

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 23.8 | 19.0 | 28.4 |
| 138 | 23.2 | 18.5 | 27.7 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138686.D
Acq On : 30 Jul 2024 15:58
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Quant Time: Jul 30 17:46:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:38:59 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.845 | 152 | 83492 | 20.000 | ng | | 0.00 |
| 21) Naphthalene-d8 | 8.128 | 136 | 334760 | 20.000 | ng | | 0.00 |
| 39) Acenaphthene-d10 | 9.880 | 164 | 181338 | 20.000 | ng | | 0.00 |
| 64) Phenanthrene-d10 | 11.369 | 188 | 299773 | 20.000 | ng | | 0.00 |
| 76) Chrysene-d12 | 14.010 | 240 | 135234 | 20.000 | ng | | 0.00 |
| 86) Perylene-d12 | 15.468 | 264 | 151051 | 20.000 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 5) 2-Fluorophenol | 5.469 | 112 | 629095 | 116.311 | ng | | 0.00 |
| 7) Phenol-d6 | 6.492 | 99 | 843765 | 116.193 | ng | | 0.00 |
| 23) Nitrobenzene-d5 | 7.416 | 82 | 813835 | 118.860 | ng | | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.675 | 330 | 180537 | 121.541 | ng | | 0.00 |
| 45) 2-Fluorobiphenyl | 9.204 | 172 | 1351342 | 111.967 | ng | | 0.00 |
| 79) Terphenyl-d14 | 12.951 | 244 | 981714 | 121.541 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.604 | 88 | 140904 | 59.504 | ng | | 99 |
| 3) Pyridine | 3.357 | 79 | 340220 | 59.310 | ng | | 98 |
| 4) n-Nitrosodimethylamine | 3.328 | 42 | 212531 | 62.209 | ng | | 99 |
| 6) Aniline | 6.516 | 93 | 370584 | 57.223 | ng | # | 79 |
| 8) 2-Chlorophenol | 6.639 | 128 | 331893 | 58.323 | ng | | 99 |
| 10) Phenol | 6.510 | 94 | 443551 | 58.012 | ng | | 88 |
| 11) bis(2-Chloroethyl)ether | 6.587 | 93 | 354634 | 60.274 | ng | | 99 |
| 12) 1,3-Dichlorobenzene | 6.787 | 146 | 367637 | 57.714 | ng | | 98 |
| 13) 1,4-Dichlorobenzene | 6.863 | 146 | 368108 | 57.263 | ng | | 99 |
| 14) 1,2-Dichlorobenzene | 7.022 | 146 | 340797 | 56.726 | ng | | 99 |
| 15) Benzyl Alcohol | 6.992 | 79 | 312171 | 59.644 | ng | | 98 |
| 16) 2,2'-oxybis(1-Chloropr... | 7.122 | 45 | 580475 | 57.327 | ng | | 84 |
| 17) 2-Methylphenol | 7.110 | 107 | 282986 | 60.223 | ng | | 97 |
| 18) Hexachloroethane | 7.357 | 117 | 141381 | 58.427 | ng | | 98 |
| 19) n-Nitroso-di-n-propyla... | 7.269 | 70 | 256740 | 58.537 | ng | | 98 |
| 20) 3+4-Methylphenols | 7.263 | 107 | 341873 | 56.705 | ng | | 96 |
| 22) Acetophenone | 7.263 | 105 | 477062 | 58.203 | ng | # | 99 |
| 24) Nitrobenzene | 7.439 | 77 | 410640 | 58.938 | ng | | 98 |
| 25) Isophorone | 7.675 | 82 | 700155 | 59.885 | ng | | 99 |
| 26) 2-Nitrophenol | 7.751 | 139 | 185196 | 61.782 | ng | | 98 |
| 27) 2,4-Dimethylphenol | 7.786 | 122 | 216101 | 60.254 | ng | | 99 |
| 28) bis(2-Chloroethoxy)met... | 7.881 | 93 | 417700 | 58.667 | ng | | 99 |
| 29) 2,4-Dichlorophenol | 7.992 | 162 | 276792 | 60.060 | ng | | 98 |
| 30) 1,2,4-Trichlorobenzene | 8.069 | 180 | 308922 | 58.085 | ng | | 98 |
| 31) Naphthalene | 8.151 | 128 | 1018783 | 57.817 | ng | | 99 |
| 32) Benzoic acid | 7.939 | 122 | 191273 | 67.875 | ng | | 99 |
| 33) 4-Chloroaniline | 8.210 | 127 | 359031 | 60.700 | ng | | 99 |
| 34) Hexachlorobutadiene | 8.263 | 225 | 188273 | 58.445 | ng | | 98 |
| 35) Caprolactam | 8.592 | 113 | 86887 | 63.184 | ng | | 96 |
| 36) 4-Chloro-3-methylphenol | 8.692 | 107 | 315510 | 59.904 | ng | | 98 |
| 37) 2-Methylnaphthalene | 8.839 | 142 | 643115 | 57.790 | ng | | 99 |
| 38) 1-Methylnaphthalene | 8.939 | 142 | 633938 | 58.134 | ng | | 99 |
| 40) 1,2,4,5-Tetrachloroben... | 9.004 | 216 | 290297 | 57.629 | ng | | 99 |
| 41) Hexachlorocyclopentadiene | 8.992 | 237 | 79605 | 61.472 | ng | | 98 |
| 43) 2,4,6-Trichlorophenol | 9.122 | 196 | 185606 | 60.432 | ng | | 99 |
| 44) 2,4,5-Trichlorophenol | 9.169 | 196 | 200163 | 59.615 | ng | | 99 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138686.D
Acq On : 30 Jul 2024 15:58
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Quant Time: Jul 30 17:46:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:38:59 2024
Response via : Initial Calibration

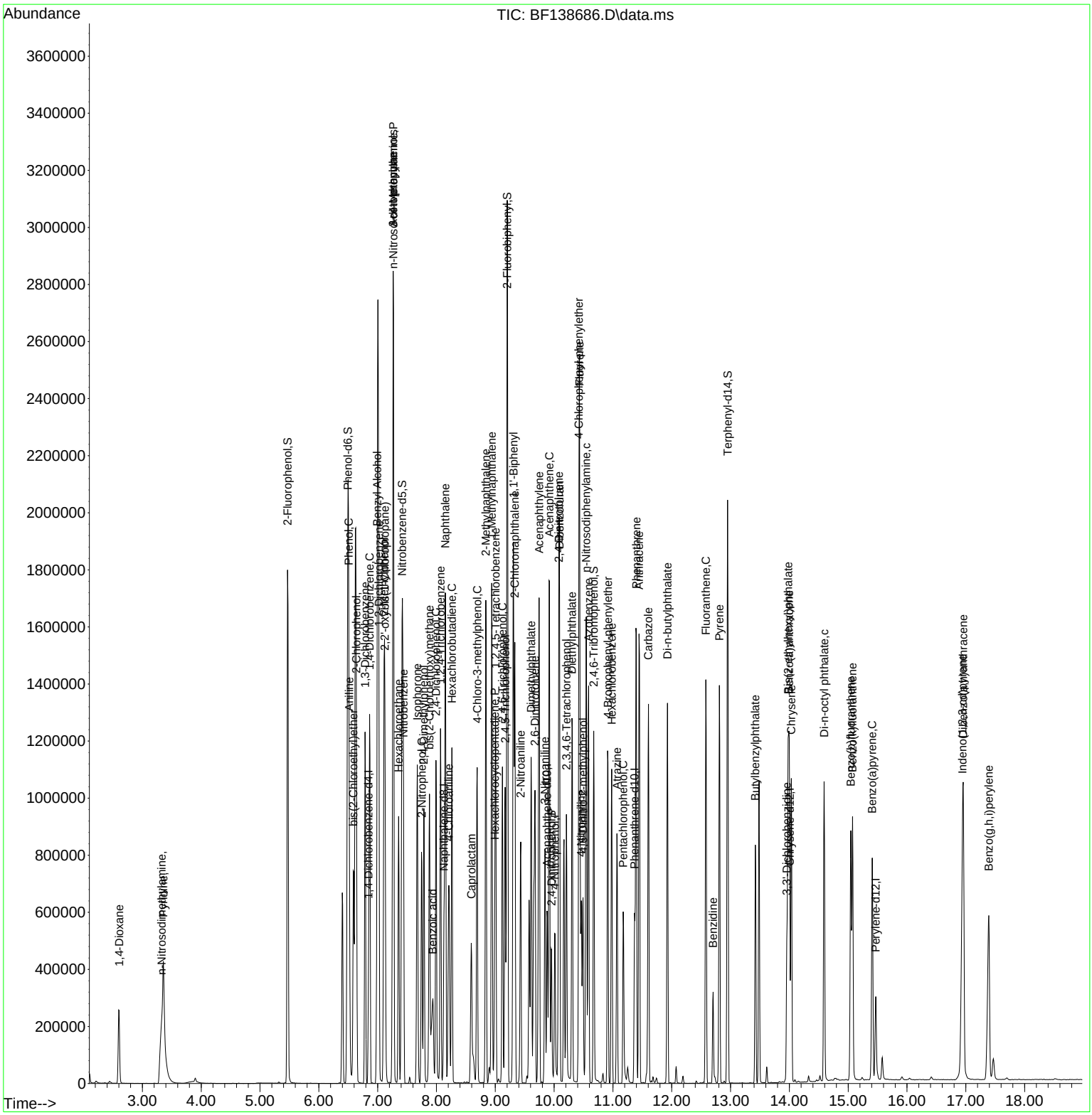
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 46) 1,1'-Biphenyl | 9.310 | 154 | 814566 | 57.355 | ng | 100 |
| 47) 2-Chloronaphthalene | 9.333 | 162 | 605996 | 57.372 | ng | 99 |
| 48) 2-Nitroaniline | 9.433 | 65 | 214695 | 59.957 | ng | 100 |
| 49) Acenaphthylene | 9.745 | 152 | 863615 | 57.648 | ng | 99 |
| 50) Dimethylphthalate | 9.610 | 163 | 695202 | 59.957 | ng | 99 |
| 51) 2,6-Dinitrotoluene | 9.675 | 165 | 163000 | 62.290 | ng | 97 |
| 52) Acenaphthene | 9.922 | 154 | 581492 | 57.743 | ng | 100 |
| 53) 3-Nitroaniline | 9.845 | 138 | 165034 | 61.007 | ng | 98 |
| 54) 2,4-Dinitrophenol | 9.957 | 184 | 82451 | 68.448 | ng | 96 |
| 55) Dibenzofuran | 10.092 | 168 | 809534 | 56.948 | ng | 99 |
| 56) 4-Nitrophenol | 10.016 | 139 | 107052 | 65.807 | ng | 97 |
| 57) 2,4-Dinitrotoluene | 10.080 | 165 | 201610 | 60.388 | ng | 93 |
| 58) Fluorene | 10.433 | 166 | 646844 | 57.140 | ng | 99 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.210 | 232 | 162987 | 63.494 | ng | 97 |
| 60) Diethylphthalate | 10.304 | 149 | 661415 | 60.161 | ng | 99 |
| 61) 4-Chlorophenyl-phenyle... | 10.422 | 204 | 321470 | 57.740 | ng | 97 |
| 62) 4-Nitroaniline | 10.463 | 138 | 159081 | 61.881 | ng | 99 |
| 63) Azobenzene | 10.586 | 77 | 722929 | 59.288 | ng | 99 |
| 65) 4,6-Dinitro-2-methylph... | 10.492 | 198 | 115013 | 62.887 | ng | 98 |
| 66) n-Nitrosodiphenylamine | 10.545 | 169 | 550299 | 58.728 | ng | 100 |
| 67) 4-Bromophenyl-phenylether | 10.916 | 248 | 185589 | 57.182 | ng | 98 |
| 68) Hexachlorobenzene | 10.980 | 284 | 197152 | 58.832 | ng | 96 |
| 69) Atrazine | 11.069 | 200 | 137932 | 57.055 | ng | 99 |
| 70) Pentachlorophenol | 11.174 | 266 | 101863 | 67.437 | ng | 98 |
| 71) Phenanthrene | 11.398 | 178 | 867741 | 56.216 | ng | 99 |
| 72) Anthracene | 11.445 | 178 | 869464 | 57.177 | ng | 99 |
| 73) Carbazole | 11.604 | 167 | 742002 | 56.558 | ng | 99 |
| 74) Di-n-butylphthalate | 11.927 | 149 | 891999 | 60.481 | ng | 100 |
| 75) Fluoranthene | 12.580 | 202 | 797022 | 55.309 | ng | 99 |
| 77) Benzidine | 12.704 | 184 | 165511 | 51.170 | ng | 98 |
| 78) Pyrene | 12.810 | 202 | 782403 | 61.448 | ng | 99 |
| 80) Butylbenzylphthalate | 13.421 | 149 | 251612 | 61.709 | ng | 99 |
| 81) Benzo(a)anthracene | 13.998 | 228 | 548125 | 58.859 | ng | 99 |
| 82) 3,3'-Dichlorobenzidine | 13.957 | 252 | 129254 | 54.238 | ng | 99 |
| 83) Chrysene | 14.033 | 228 | 498766 | 59.365 | ng | 99 |
| 84) Bis(2-ethylhexyl)phtha... | 13.980 | 149 | 343468 | 57.526 | ng | 100 |
| 85) Di-n-octyl phthalate | 14.592 | 149 | 637055 | 57.670 | ng | 100 |
| 87) Indeno(1,2,3-cd)pyrene | 16.945 | 276 | 636857 | 58.833 | ng | 100 |
| 88) Benzo(b)fluoranthene | 15.045 | 252 | 514218 | 54.916 | ng | 99 |
| 89) Benzo(k)fluoranthene | 15.074 | 252 | 506146 | 62.431 | ng | 99 |
| 90) Benzo(a)pyrene | 15.410 | 252 | 469205 | 59.572 | ng | 100 |
| 91) Dibenzo(a,h)anthracene | 16.956 | 278 | 519552 | 58.470 | ng | 99 |
| 92) Benzo(g,h,i)perylene | 17.392 | 276 | 542952 | 58.883 | ng | 99 |

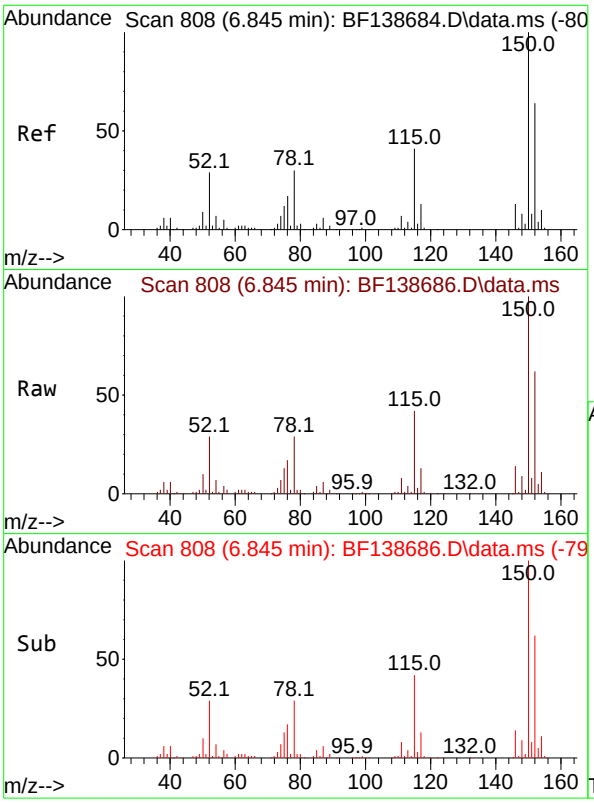
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138686.D
Acq On : 30 Jul 2024 15:58
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Quant Time: Jul 30 17:46:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:38:59 2024
Response via : Initial Calibration



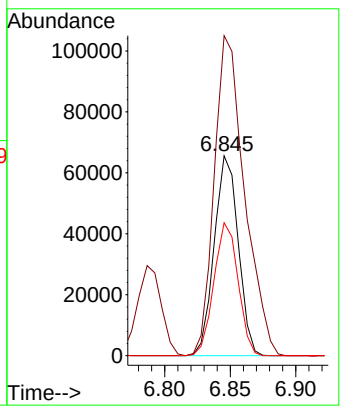


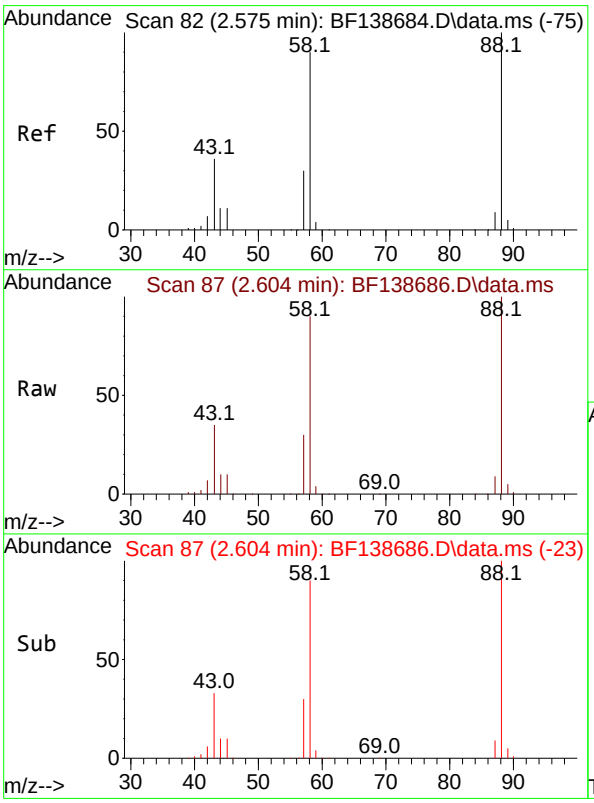

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.845 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:152 Resp: 83492

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 160.2 | 126.0 | 189.0 |
| 115 | 66.6 | 51.7 | 77.5 |

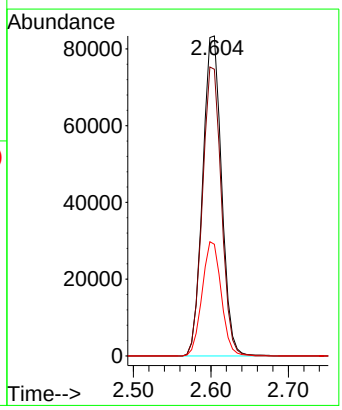


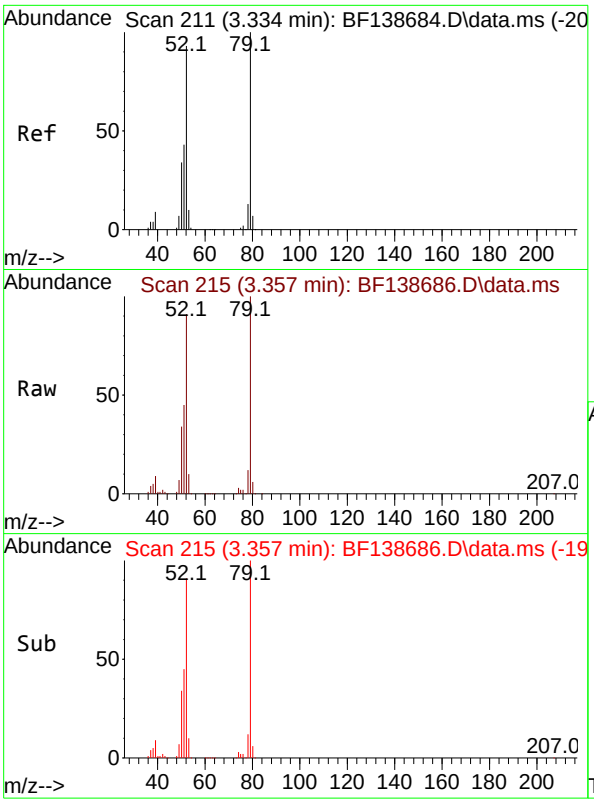




#2
1,4-Dioxane
Concen: 59.504 ng
RT: 2.604 min Scan# 87
Delta R.T. 0.029 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion: 88 Resp: 140904

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 90.5 | 71.6 | 107.4 |
| 43 | 36.2 | 28.7 | 43.1 |



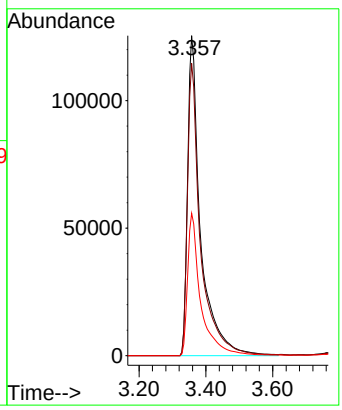


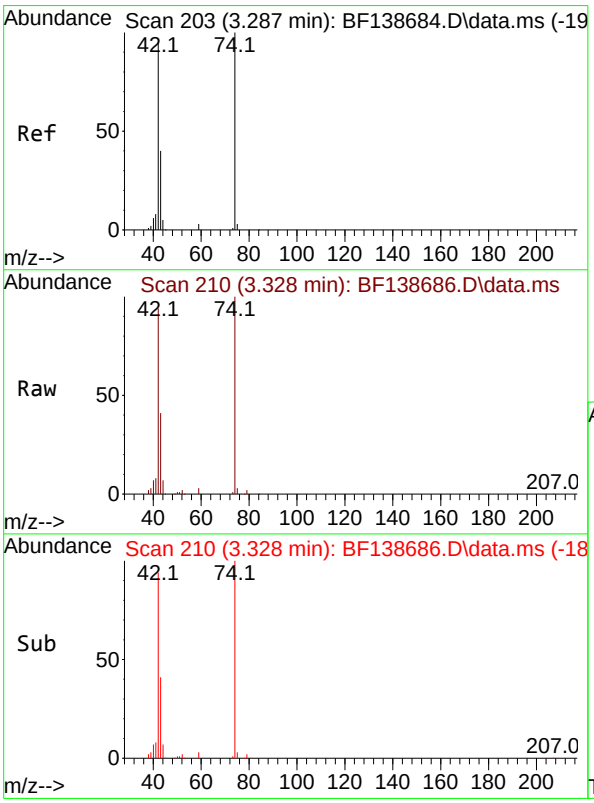

#3
Pyridine
Concen: 59.310 ng
RT: 3.357 min Scan# 21
Delta R.T. 0.023 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion: 79 Resp: 340220

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 91.3 | 74.7 | 112.1 |
| 51 | 44.5 | 34.6 | 51.8 |

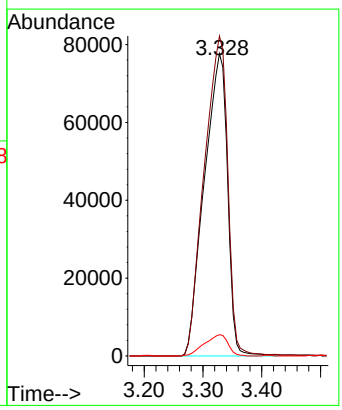


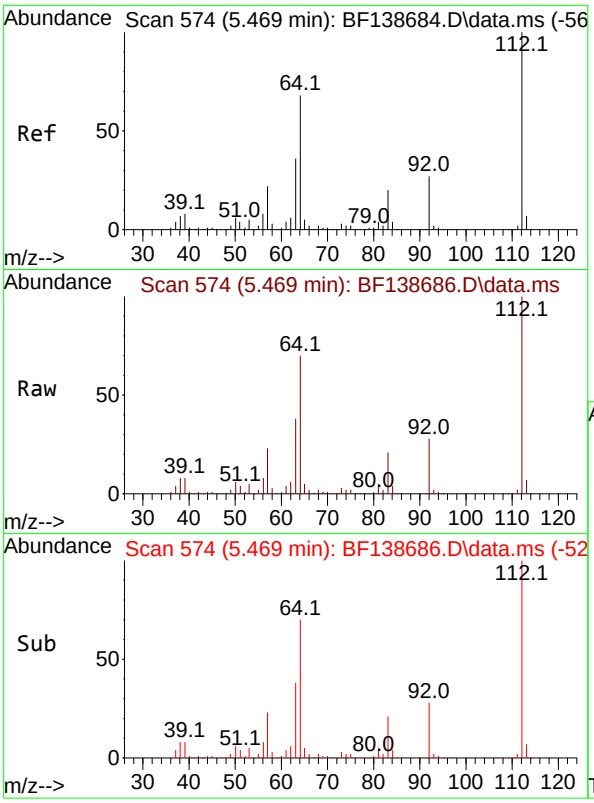




#4
n-Nitrosodimethylamine
Concen: 62.209 ng
RT: 3.328 min Scan# 210
Delta R.T. 0.041 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion: 42 Resp: 212531

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 105.8 | 84.2 | 126.4 |
| 44 | 7.0 | 4.9 | 7.3 |



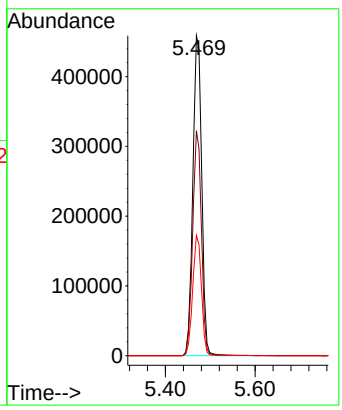


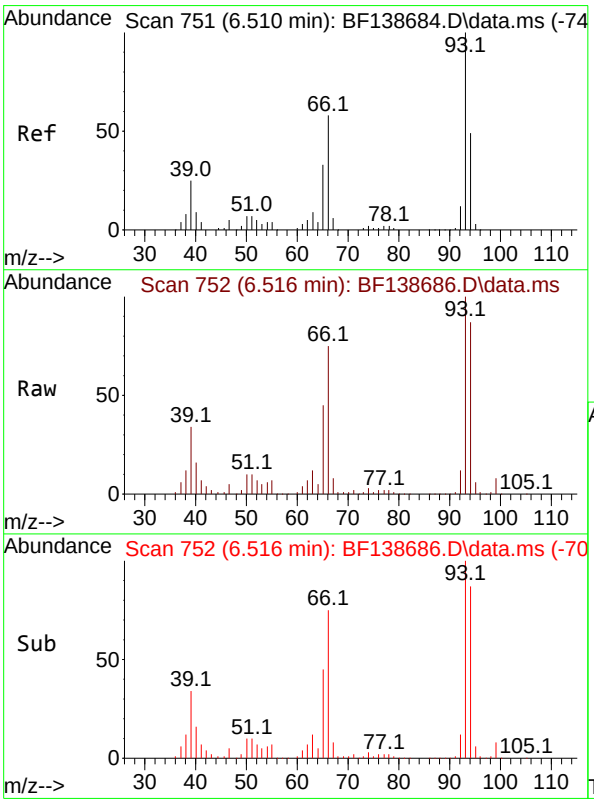

#5
2-Fluorophenol
Concen: 116.311 ng
RT: 5.469 min Scan# 5
Delta R.T. -0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:112 Resp: 629095

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 70.3 | 54.2 | 81.4 |
| 63 | 37.6 | 28.7 | 43.1 |

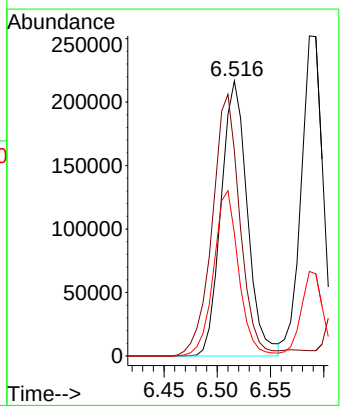


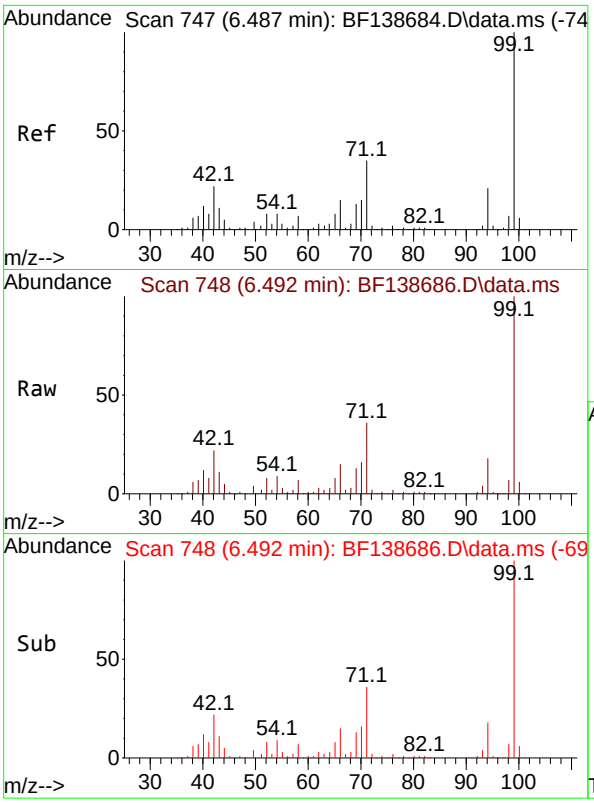




#6
Aniline
Concen: 57.223 ng
RT: 6.516 min Scan# 752
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion: 93 Resp: 370584

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 66 | 74.7 | 46.9 | 70.3# |
| 65 | 44.6 | 26.5 | 39.7# |



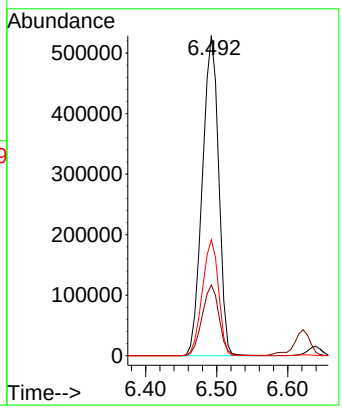


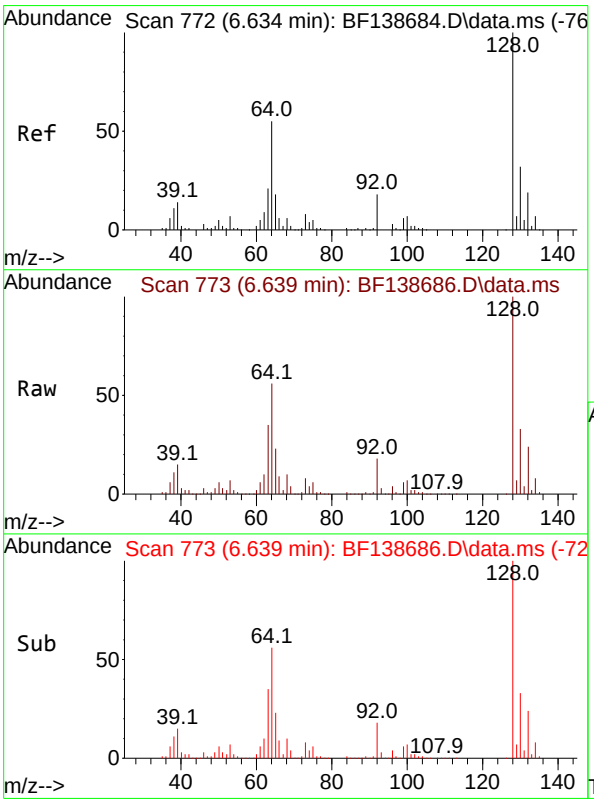

#7
Phenol-d6
Concen: 116.193 ng
RT: 6.492 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion: 99 Resp: 843765

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 22.0 | 17.4 | 26.0 |
| 71 | 36.2 | 28.1 | 42.1 |

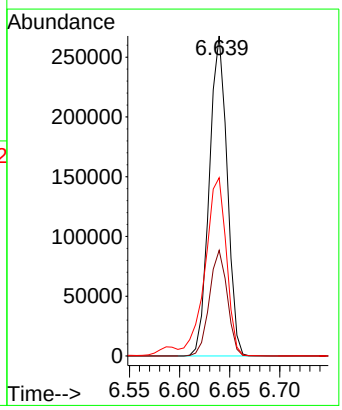


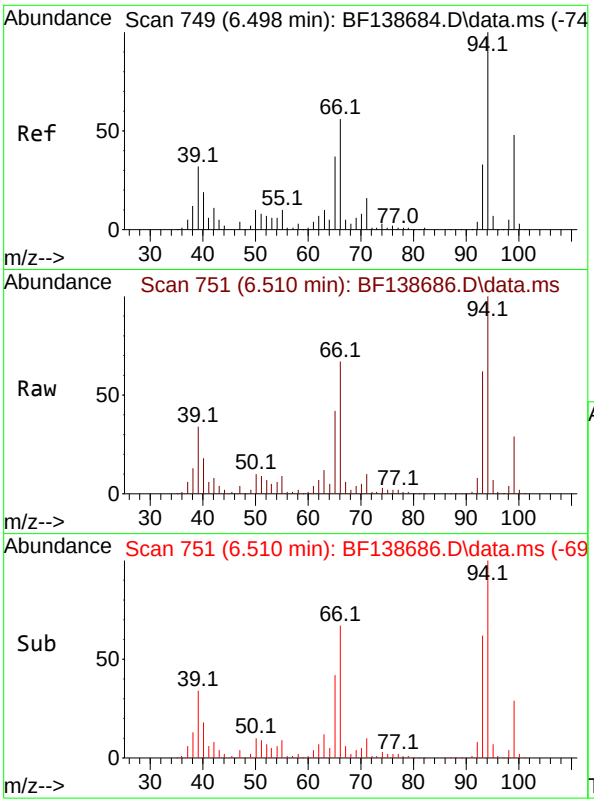




#8
2-Chlorophenol
Concen: 58.323 ng
RT: 6.639 min Scan# 773
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:128 Resp: 331893

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 130 | 33.0 | 12.0 | 52.0 |
| 64 | 55.7 | 36.3 | 76.3 |



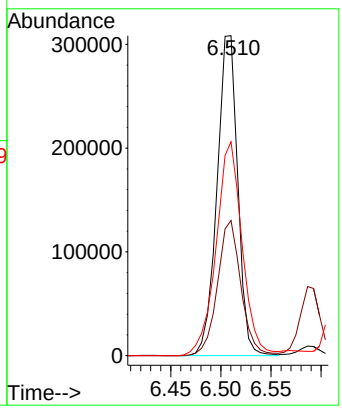


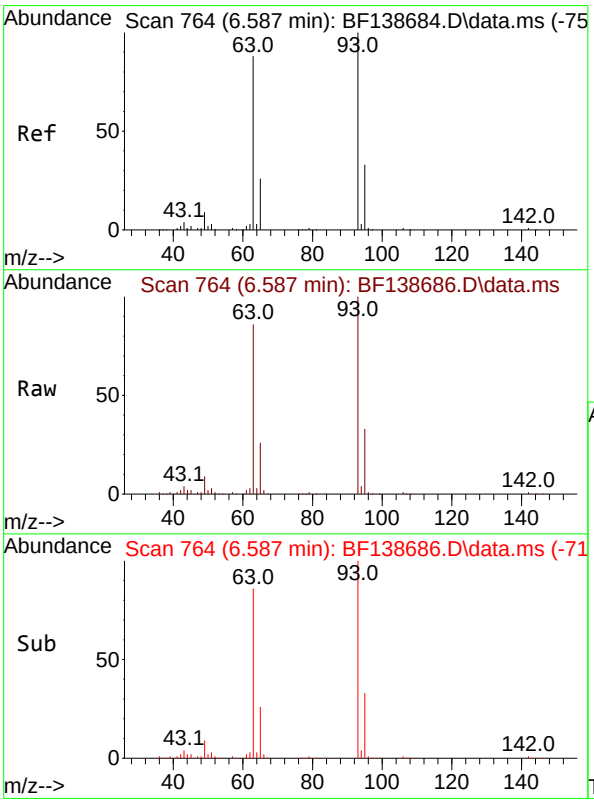

#10
Phenol
Concen: 58.012 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.012 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion: 94 Resp: 443551

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 42.2 | 16.9 | 56.9 |
| 66 | 66.8 | 36.5 | 76.5 |

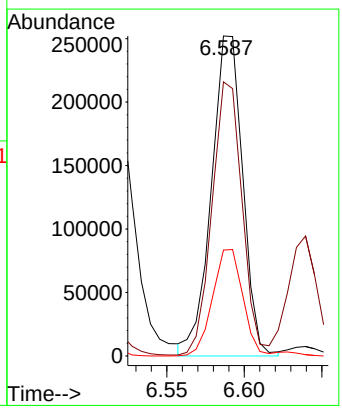


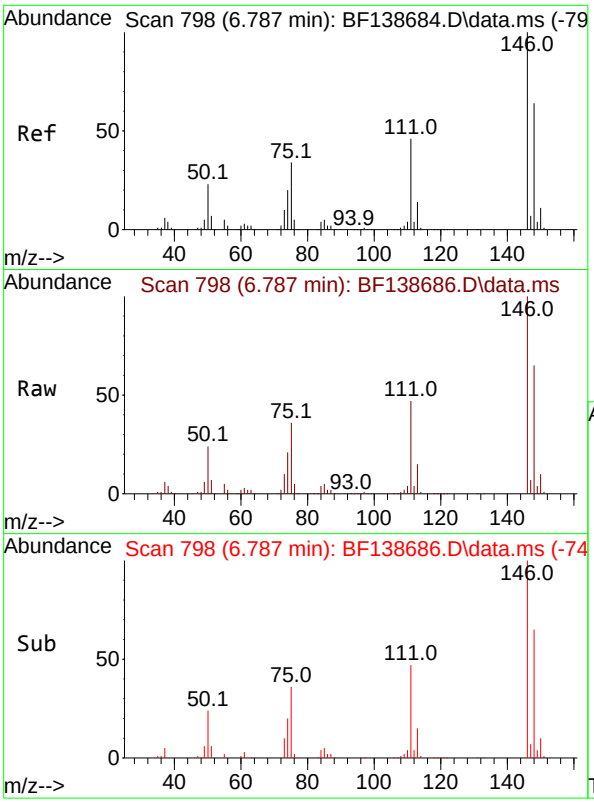




#11
bis(2-Chloroethyl)ether
Concen: 60.274 ng
RT: 6.587 min Scan# 764
Delta R.T. -0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion: 93 Resp: 354634

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 85.6 | 65.3 | 105.3 |
| 95 | 33.1 | 12.4 | 52.4 |



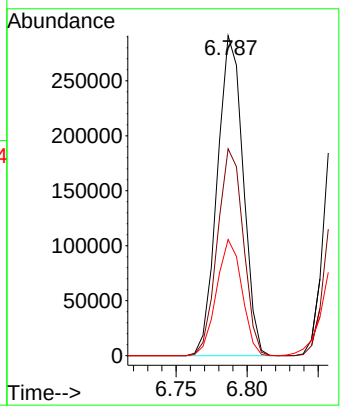


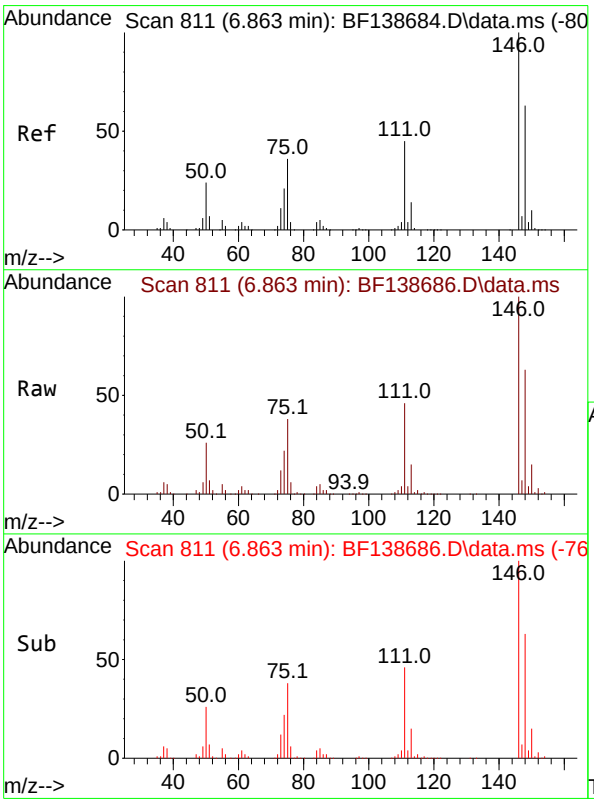

#12
1,3-Dichlorobenzene
Concen: 57.714 ng
RT: 6.787 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:146 Resp: 367637

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 64.7 | 51.2 | 76.8 |
| 75 | 36.3 | 27.4 | 41.2 |

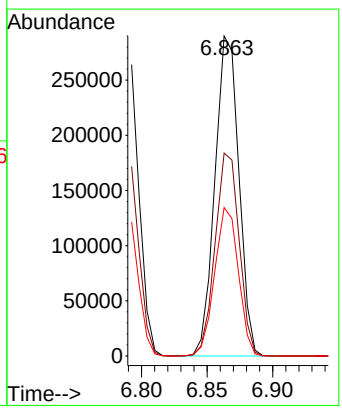


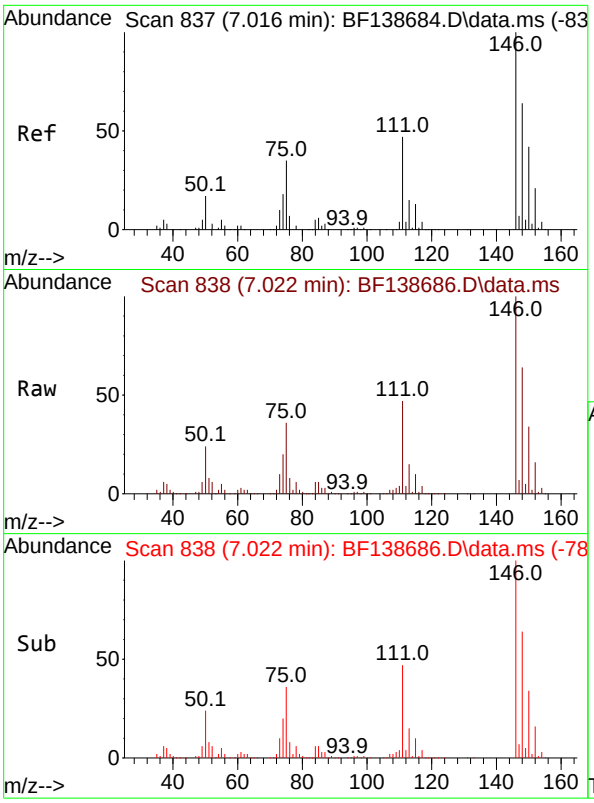




#13
1,4-Dichlorobenzene
Concen: 57.263 ng
RT: 6.863 min Scan# 811
Delta R.T. -0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:146 Resp: 368108

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 63.4 | 50.2 | 75.2 |
| 111 | 46.4 | 35.9 | 53.9 |



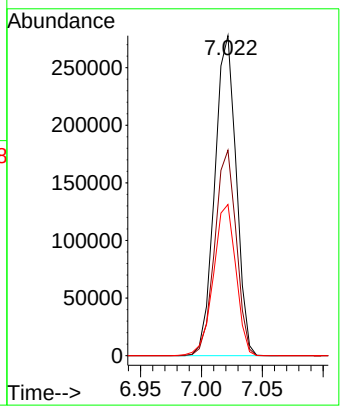


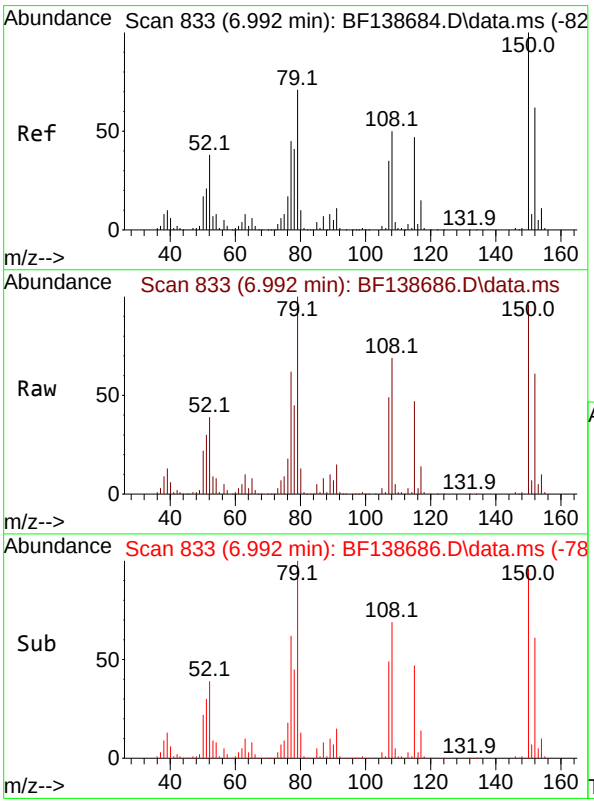

#14
1,2-Dichlorobenzene
Concen: 56.726 ng
RT: 7.022 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:146 Resp: 340797

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 64.2 | 50.8 | 76.2 |
| 111 | 47.2 | 37.4 | 56.2 |

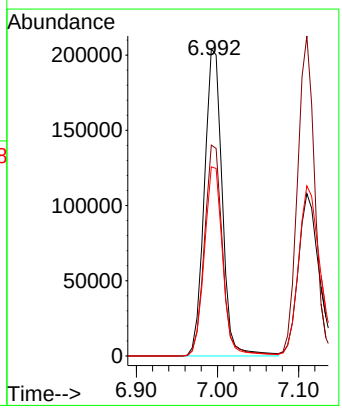


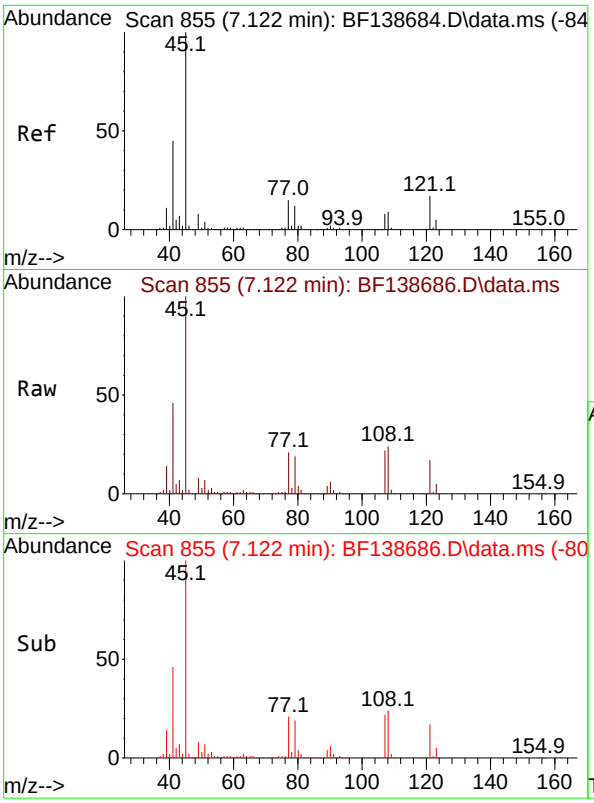




#15
Benzyl Alcohol
Concen: 59.644 ng
RT: 6.992 min Scan# 833
Delta R.T. -0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion: 79 Resp: 312171

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 108 | 68.7 | 56.6 | 85.0 |
| 77 | 61.6 | 50.3 | 75.5 |



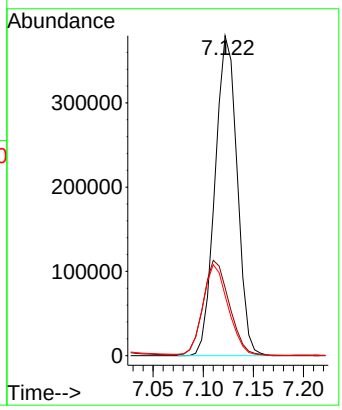


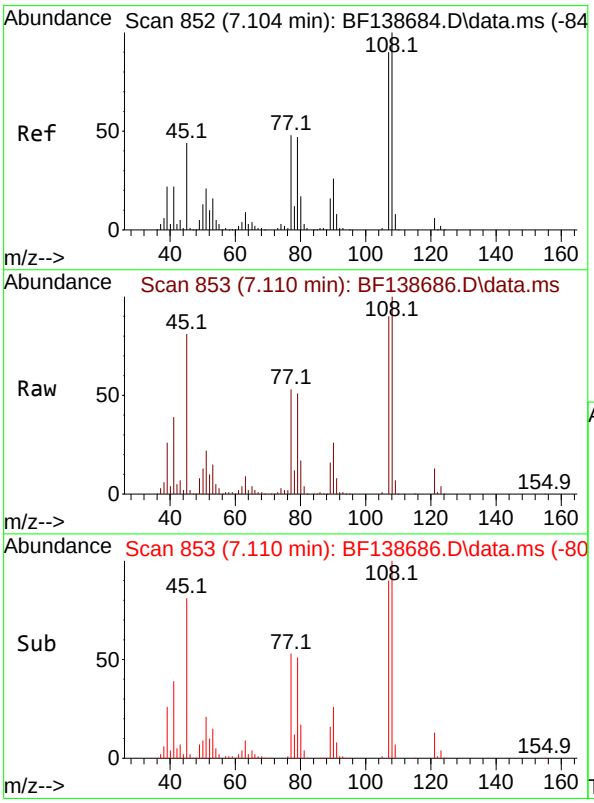

#16
2,2'-oxybis(1-Chloropropane)
Concen: 57.327 ng
RT: 7.122 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion: 45 Resp: 580475

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 77 | 21.2 | 0.0 | 34.9 |
| 79 | 18.8 | 0.0 | 32.2 |

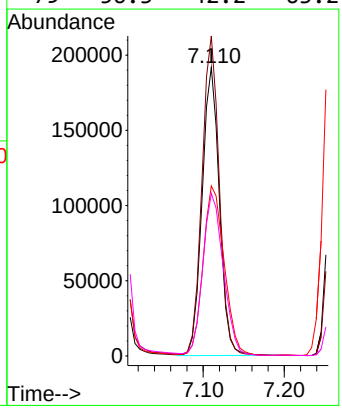


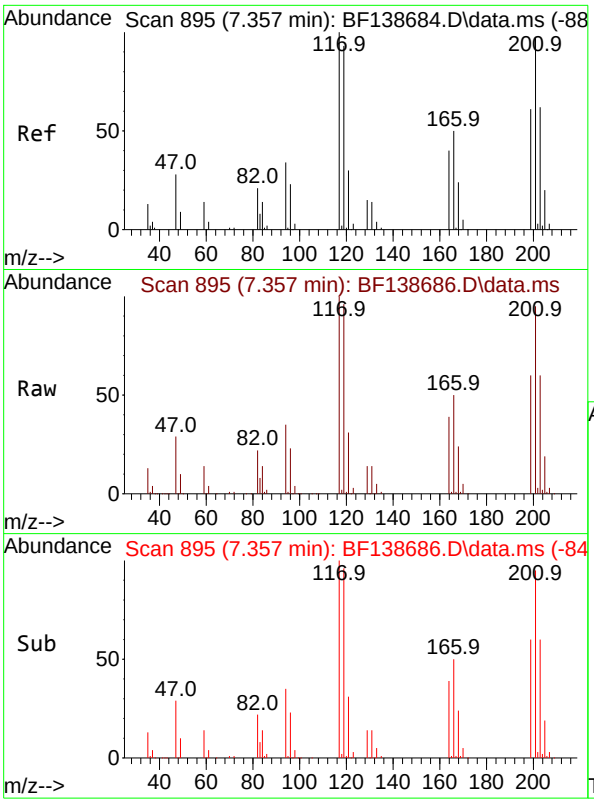




#17
2-Methylphenol
Concen: 60.223 ng
RT: 7.110 min Scan# 853
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:107 Resp: 282986

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 110.9 | 89.2 | 133.8 |
| 77 | 58.9 | 43.0 | 64.4 |
| 79 | 56.3 | 42.2 | 63.2 |



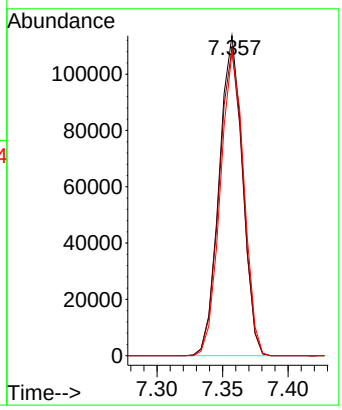


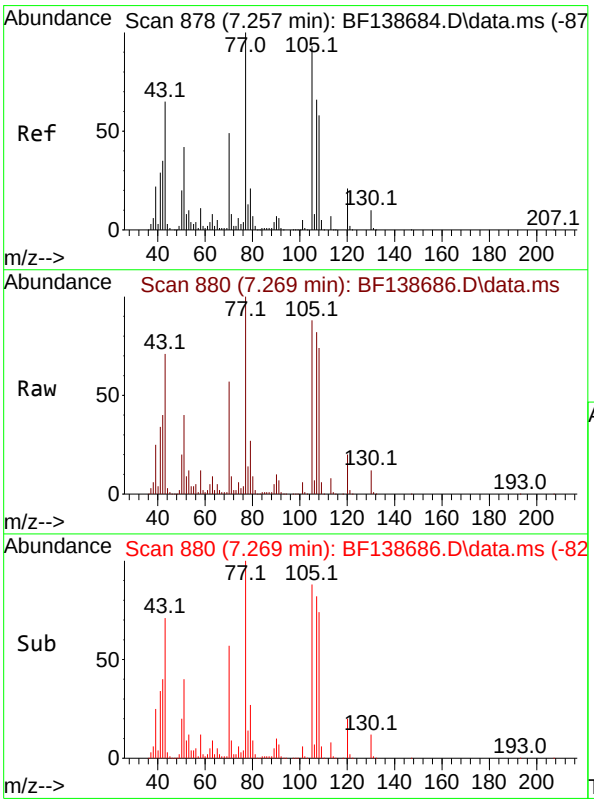

#18
Hexachloroethane
Concen: 58.427 ng
RT: 7.357 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:117 Resp: 141381

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 96.0 | 74.6 | 111.8 |
| 201 | 94.8 | 77.2 | 115.8 |

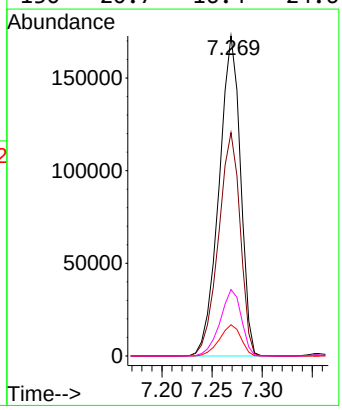


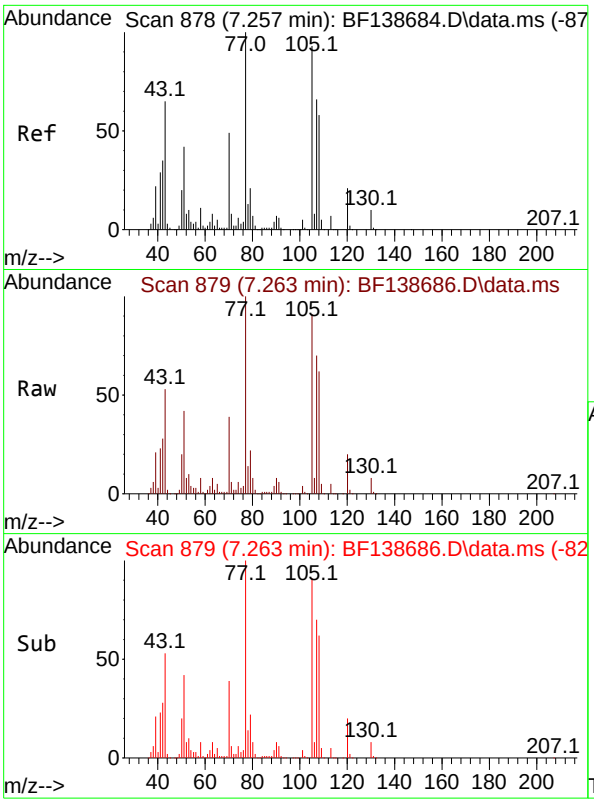




#19
n-Nitroso-di-n-propylamine
Concen: 58.537 ng
RT: 7.269 min Scan# 880
Delta R.T. 0.012 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion: 70 Resp: 256740

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 42 | 69.8 | 57.4 | 86.0 |
| 101 | 9.7 | 7.5 | 11.3 |
| 130 | 20.7 | 16.4 | 24.6 |



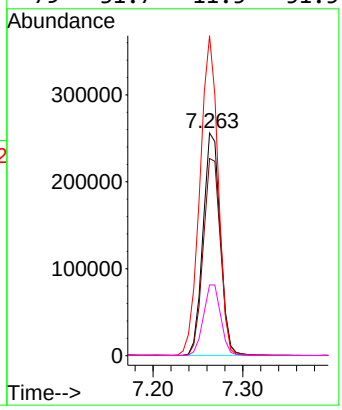


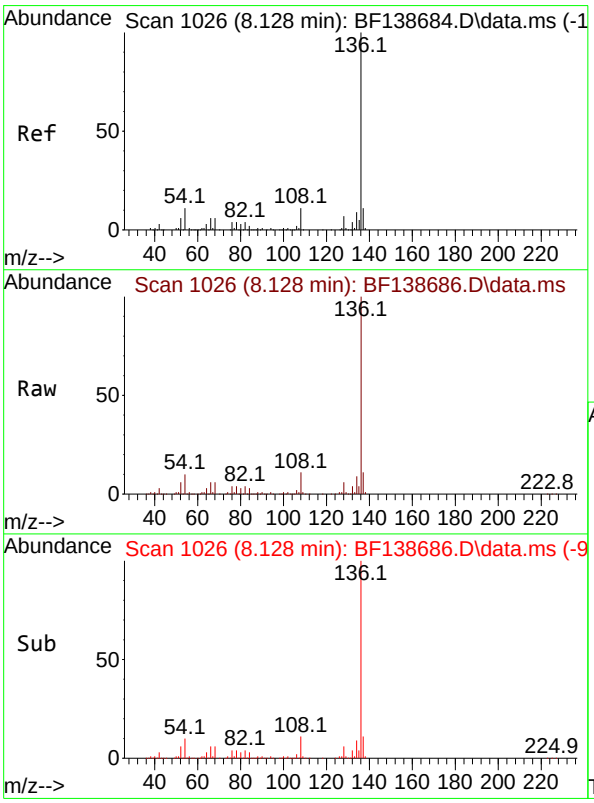

#20
3+4-Methylphenols
Concen: 56.705 ng
RT: 7.263 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:107 Resp: 341873

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 88.5 | 68.2 | 108.2 |
| 77 | 143.7 | 132.1 | 172.1 |
| 79 | 31.7 | 11.5 | 51.5 |

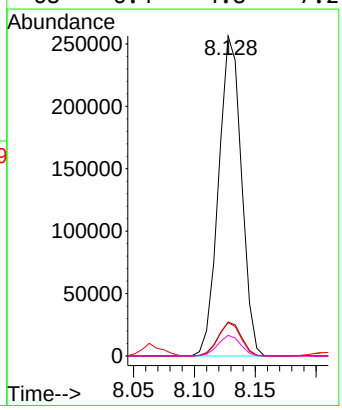


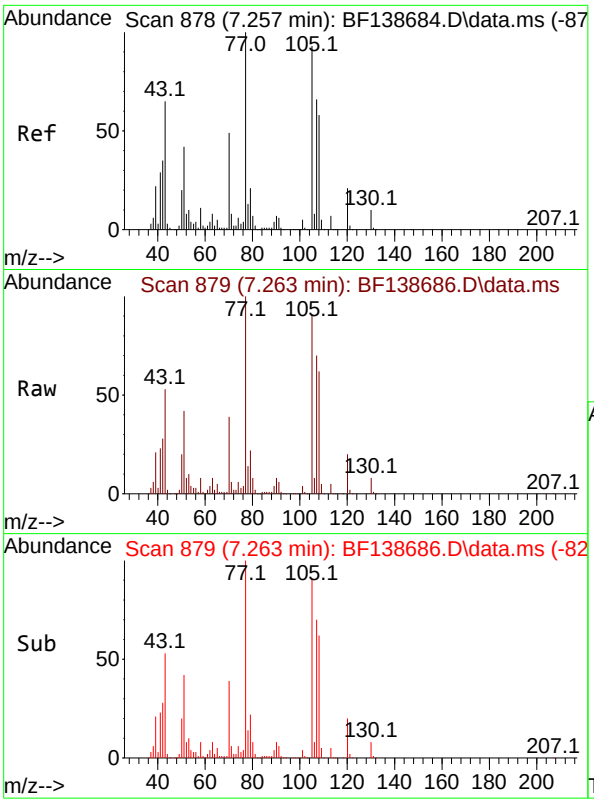




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.128 min Scan# 1026
Delta R.T. -0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:136 Resp: 334760

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.6 | 8.9 | 13.3 |
| 54 | 10.5 | 8.6 | 12.8 |
| 68 | 6.4 | 4.8 | 7.2 |



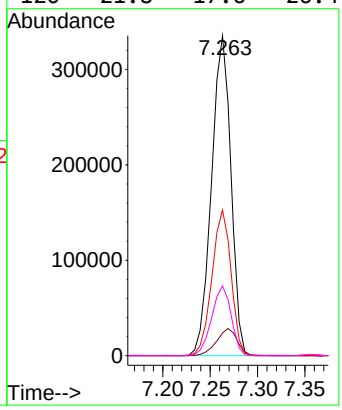


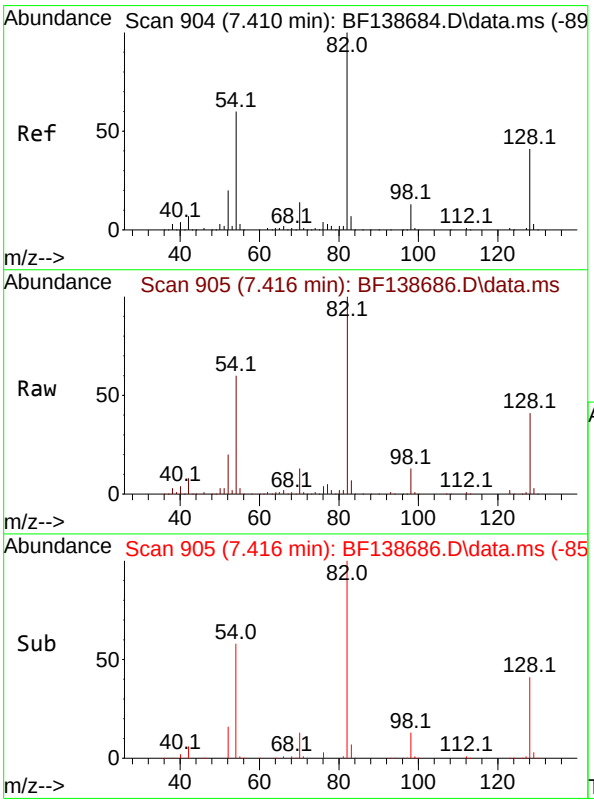

#22
Acetophenone
Concen: 58.203 ng
RT: 7.263 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:105 Resp: 477062

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 71 | 7.1 | 7.2 | 10.8# |
| 51 | 45.6 | 35.9 | 53.9 |
| 120 | 21.8 | 17.6 | 26.4 |

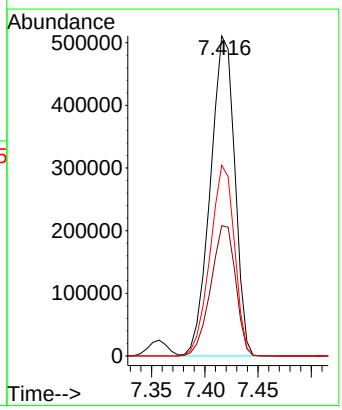


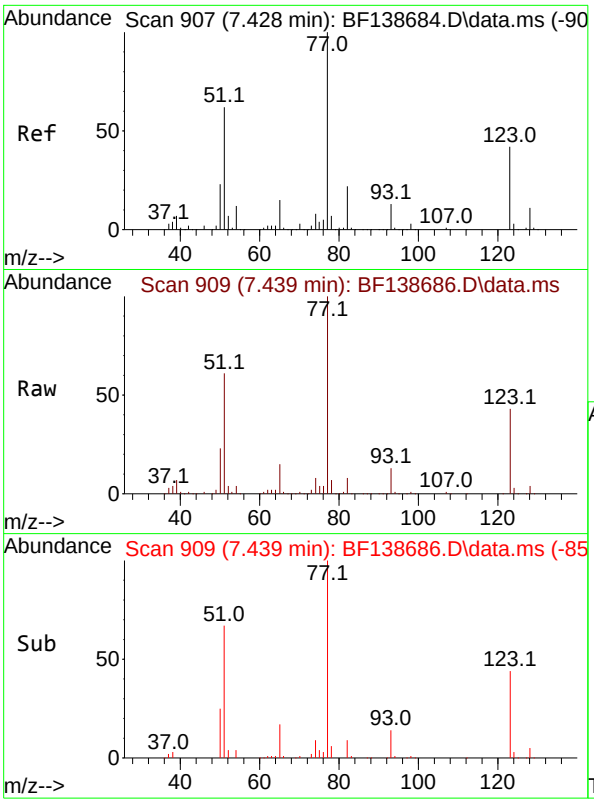




#23
Nitrobenzene-d5
Concen: 118.860 ng
RT: 7.416 min Scan# 905
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion: 82 Resp: 813835

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 40.7 | 32.8 | 49.2 |
| 54 | 59.6 | 48.3 | 72.5 |



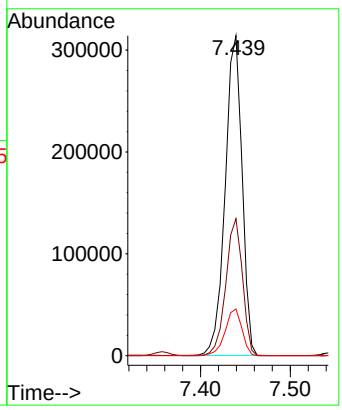


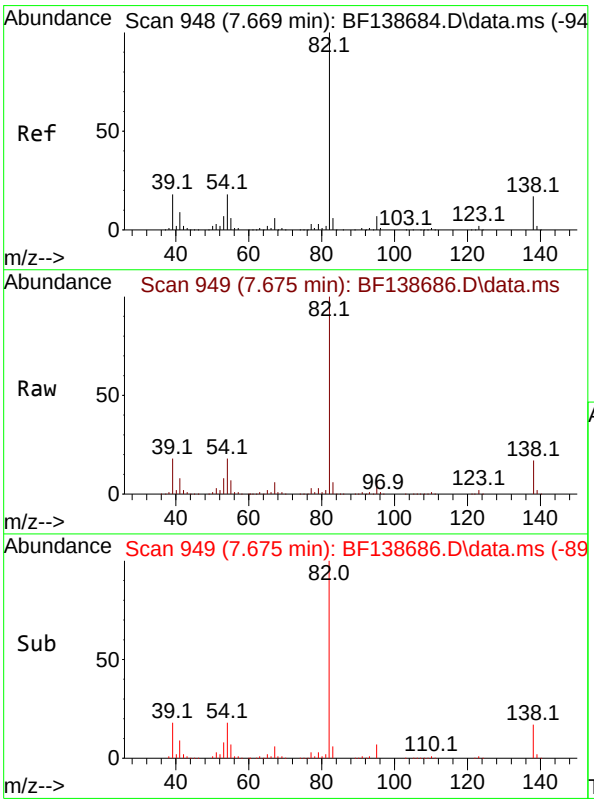

#24
Nitrobenzene
Concen: 58.938 ng
RT: 7.439 min Scan# 9
Delta R.T. 0.012 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion: 77 Resp: 410640

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 123 | 42.8 | 33.3 | 49.9 |
| 65 | 14.6 | 11.9 | 17.9 |

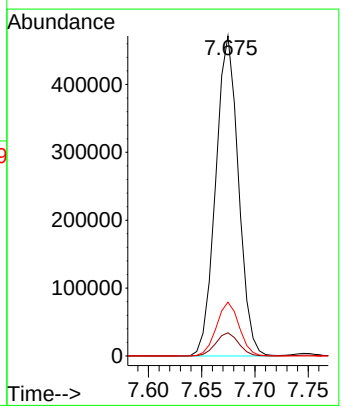


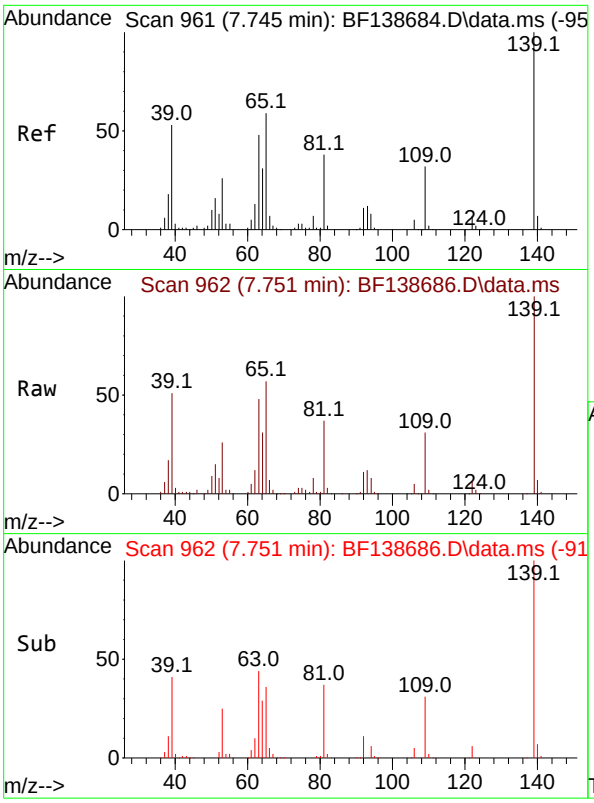




#25
Isophorone
Concen: 59.885 ng
RT: 7.675 min Scan# 949
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion: 82 Resp: 700155

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 95 | 7.3 | 5.7 | 8.5 |
| 138 | 16.8 | 13.7 | 20.5 |



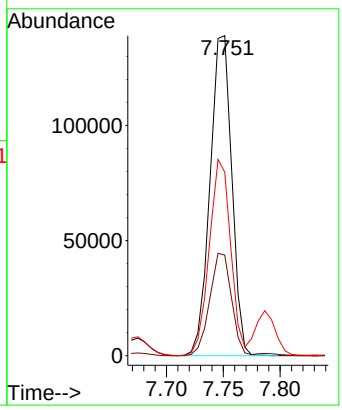


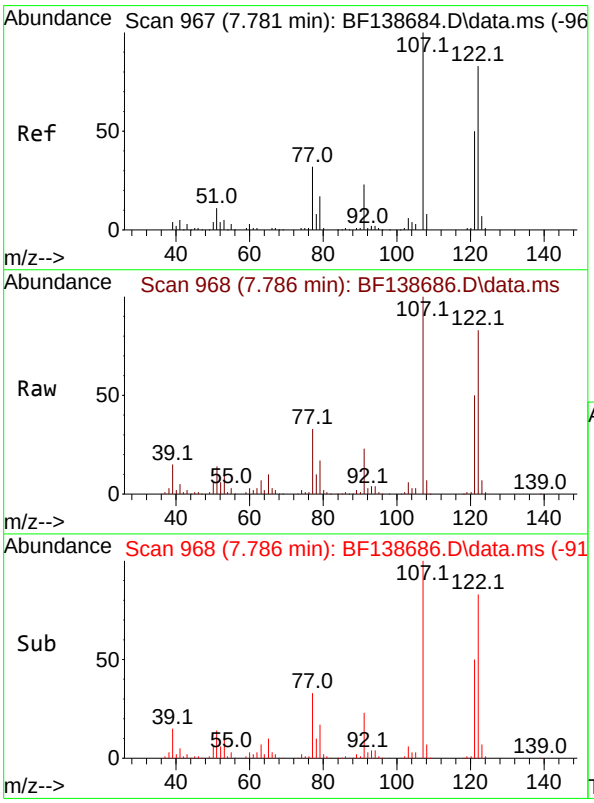

#26
2-Nitrophenol
Concen: 61.782 ng
RT: 7.751 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:139 Resp: 185196

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 31.4 | 25.9 | 38.9 |
| 65 | 57.4 | 47.0 | 70.6 |

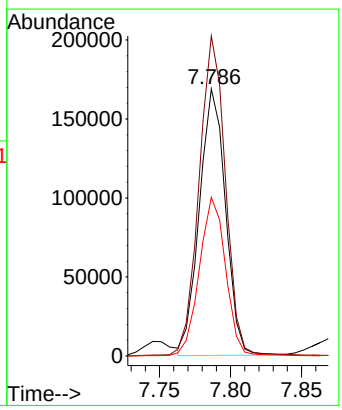


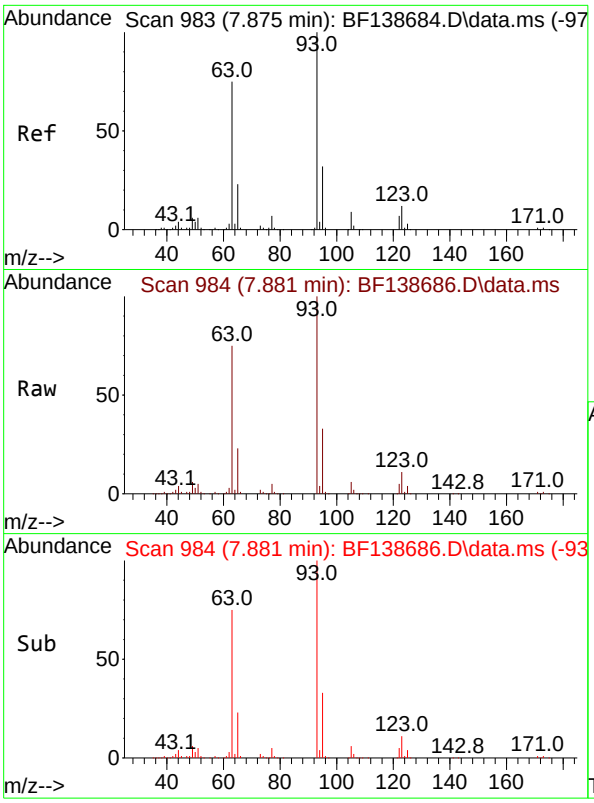




#27
2,4-Dimethylphenol
Concen: 60.254 ng
RT: 7.786 min Scan# 968
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:122 Resp: 216101

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 107 | 119.8 | 95.0 | 142.6 |
| 121 | 59.4 | 47.3 | 70.9 |



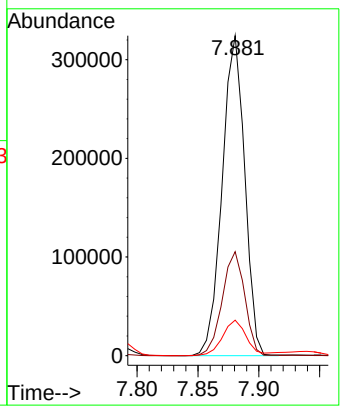


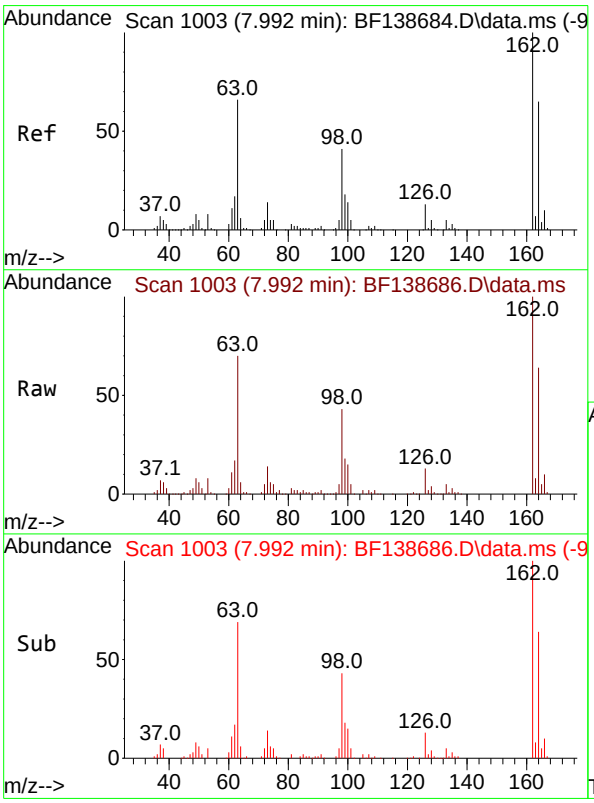

#28
bis(2-Chloroethoxy)methane
Concen: 58.667 ng
RT: 7.881 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion: 93 Resp: 417700

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 32.5 | 25.8 | 38.8 |
| 123 | 11.1 | 9.4 | 14.0 |

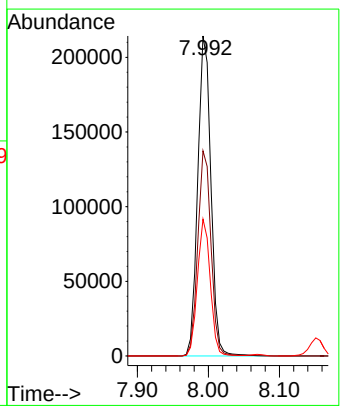


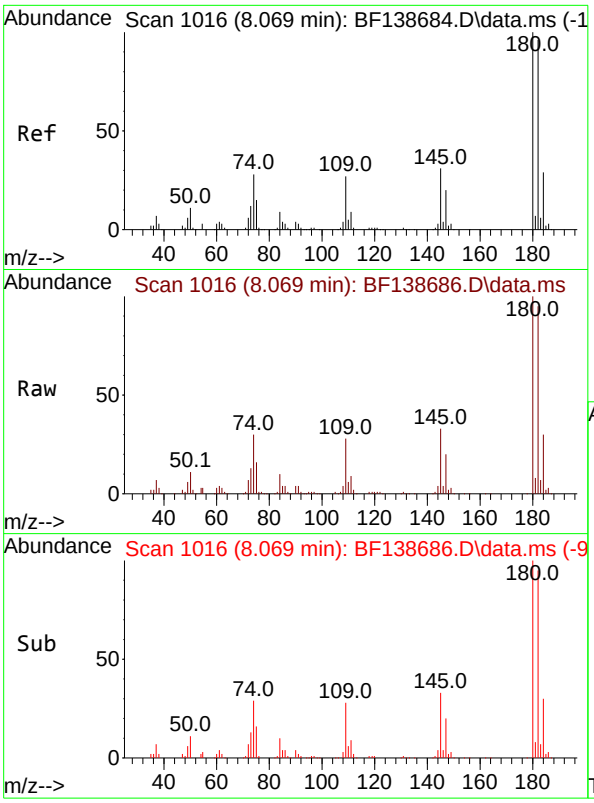




#29
2,4-Dichlorophenol
Concen: 60.060 ng
RT: 7.992 min Scan# 1003
Delta R.T. -0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:162 Resp: 276792

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 164 | 64.1 | 44.7 | 84.7 |
| 98 | 42.8 | 20.8 | 60.8 |



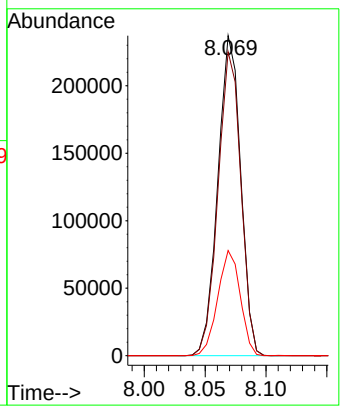


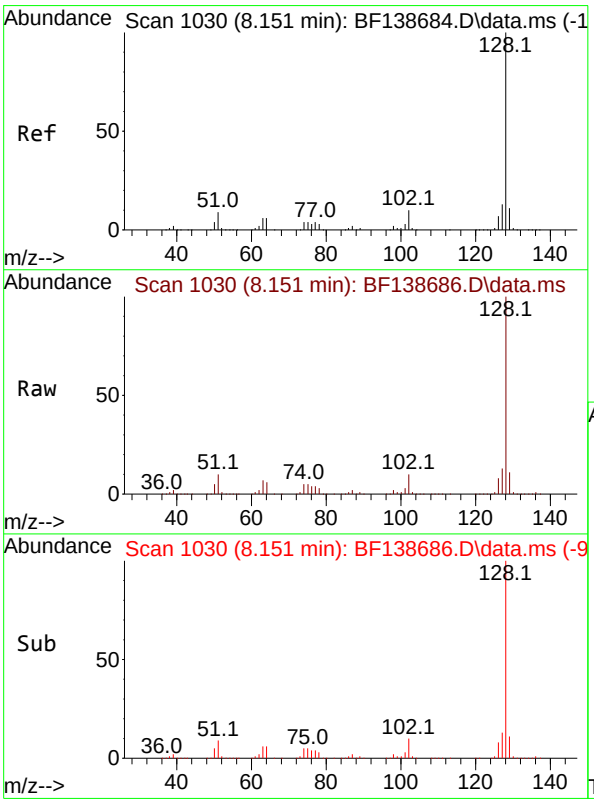

#30
1,2,4-Trichlorobenzene
Concen: 58.085 ng
RT: 8.069 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:180 Resp: 308922

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.0 | 76.9 | 115.3 |
| 145 | 32.9 | 25.0 | 37.4 |

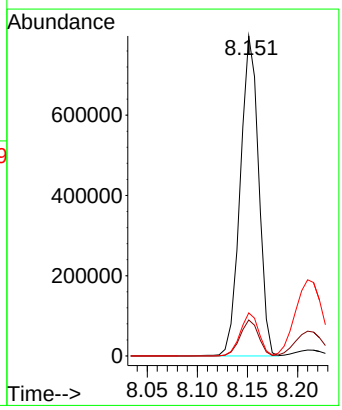


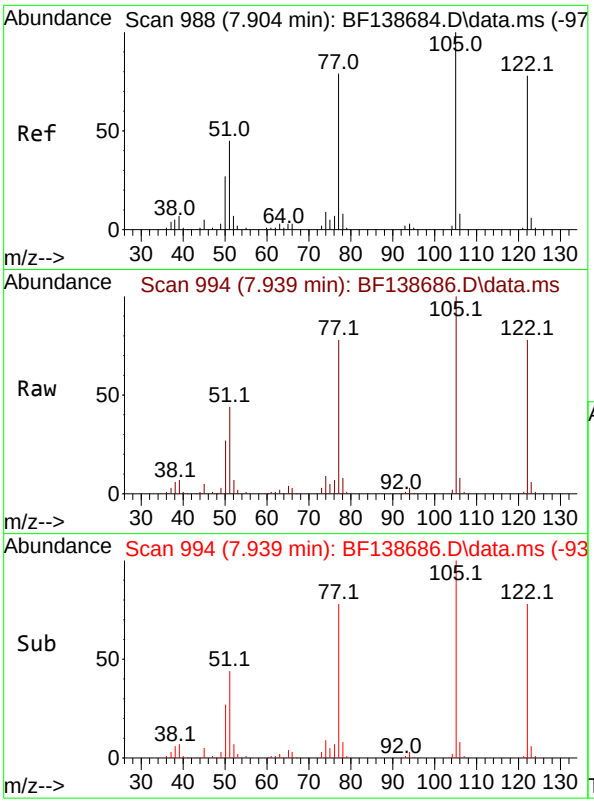




#31
Naphthalene
Concen: 57.817 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:128 Resp: 1018783

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.2 | 8.7 | 13.1 |
| 127 | 13.5 | 10.6 | 16.0 |



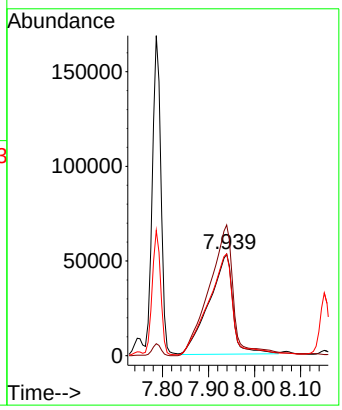


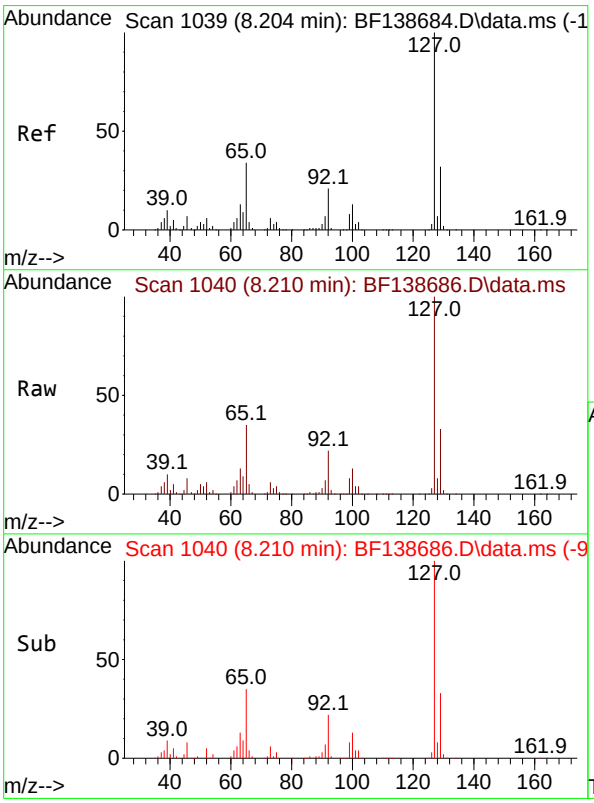

#32
Benzoic acid
Concen: 67.875 ng
RT: 7.939 min Scan# 9
Delta R.T. 0.035 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:122 Resp: 191273

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 128.7 | 106.7 | 146.7 |
| 77 | 100.2 | 81.1 | 121.1 |

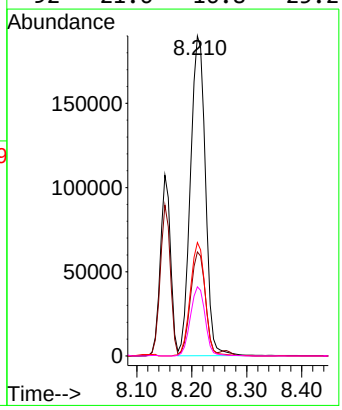


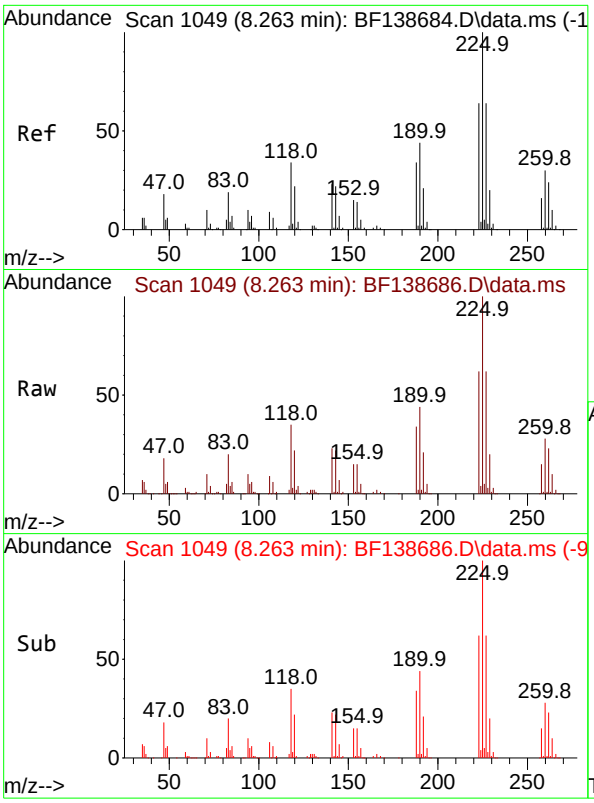




#33
4-Chloroaniline
Concen: 60.700 ng
RT: 8.210 min Scan# 1040
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:127 Resp: 359031

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 32.5 | 25.9 | 38.9 |
| 65 | 35.4 | 27.6 | 41.4 |
| 92 | 21.6 | 16.8 | 25.2 |



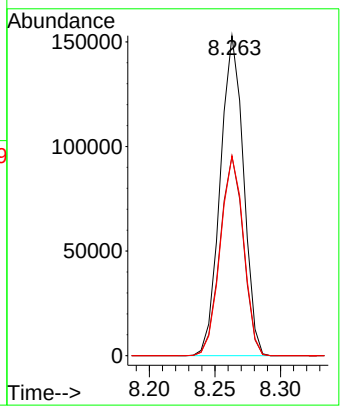


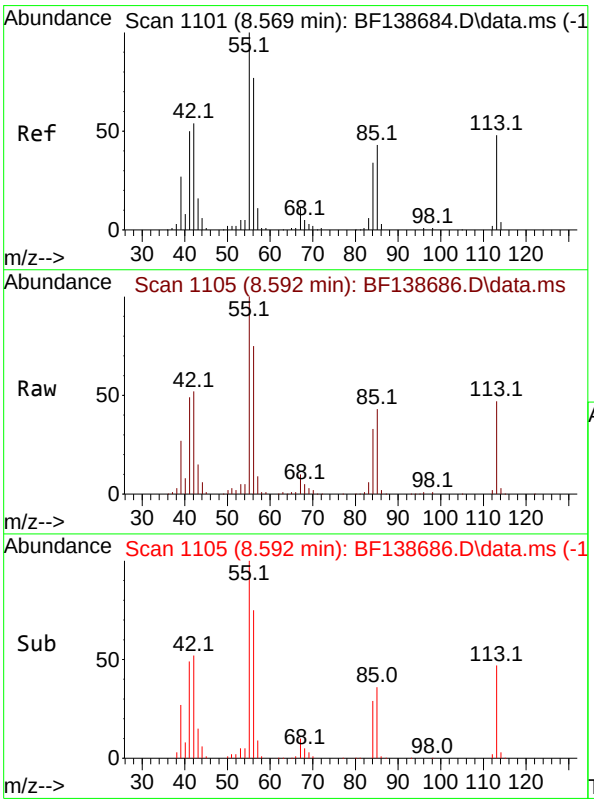

#34
Hexachlorobutadiene
Concen: 58.445 ng
RT: 8.263 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:225 Resp: 188273

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.4 | 51.2 | 76.8 |
| 227 | 62.3 | 51.1 | 76.7 |

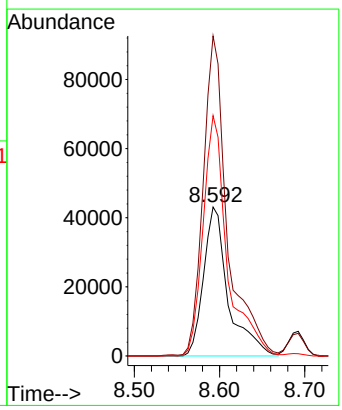


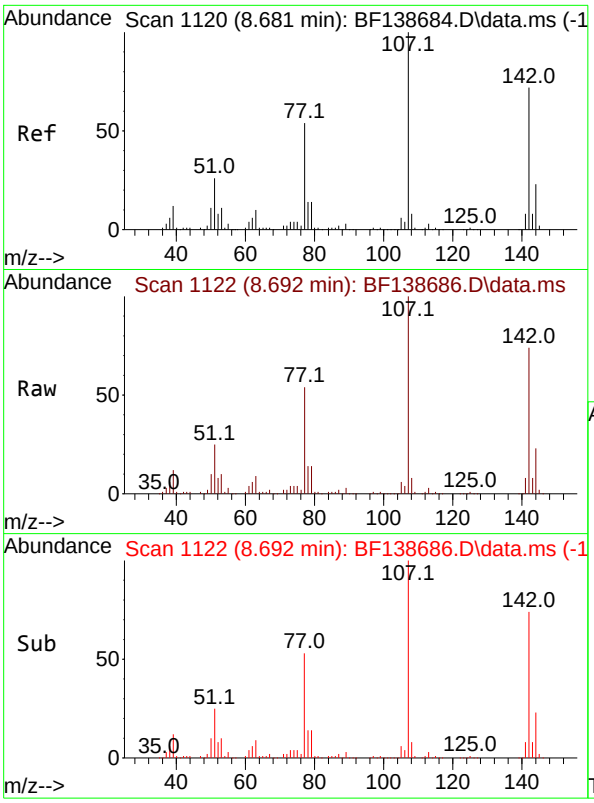




#35
Caprolactam
Concen: 63.184 ng
RT: 8.592 min Scan# 1105
Delta R.T. 0.023 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:113 Resp: 86887

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 55 | 214.9 | 186.7 | 226.7 |
| 56 | 161.4 | 138.9 | 178.9 |



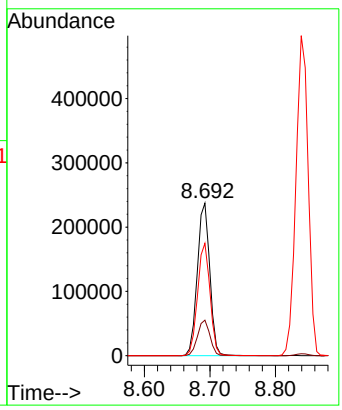


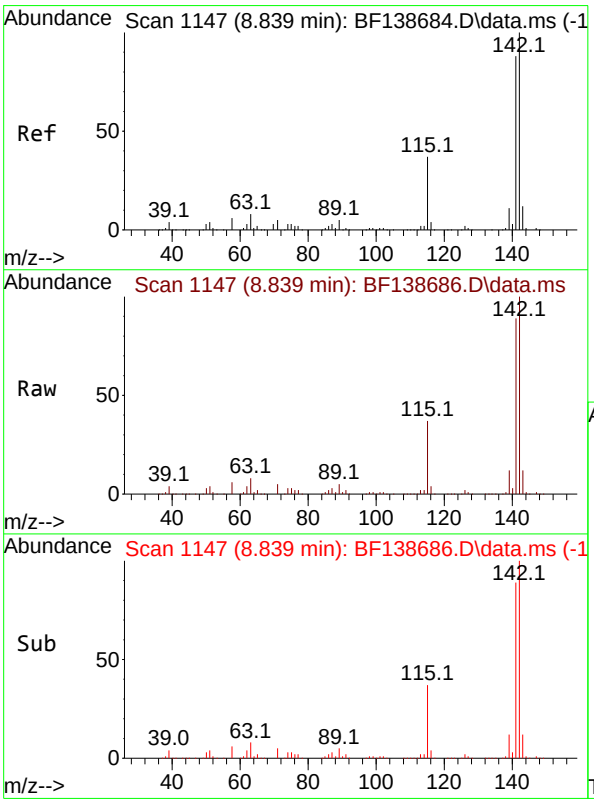

#36
4-Chloro-3-methylphenol
Concen: 59.904 ng
RT: 8.692 min Scan# 11
Delta R.T. 0.012 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:107 Resp: 315510

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 144 | 23.3 | 18.2 | 27.2 |
| 142 | 73.7 | 57.4 | 86.2 |

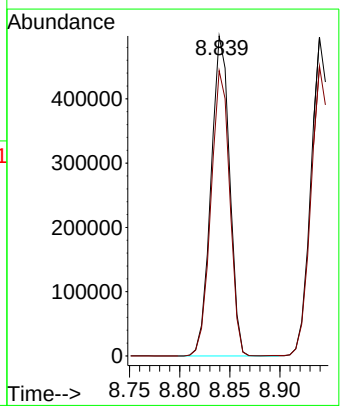


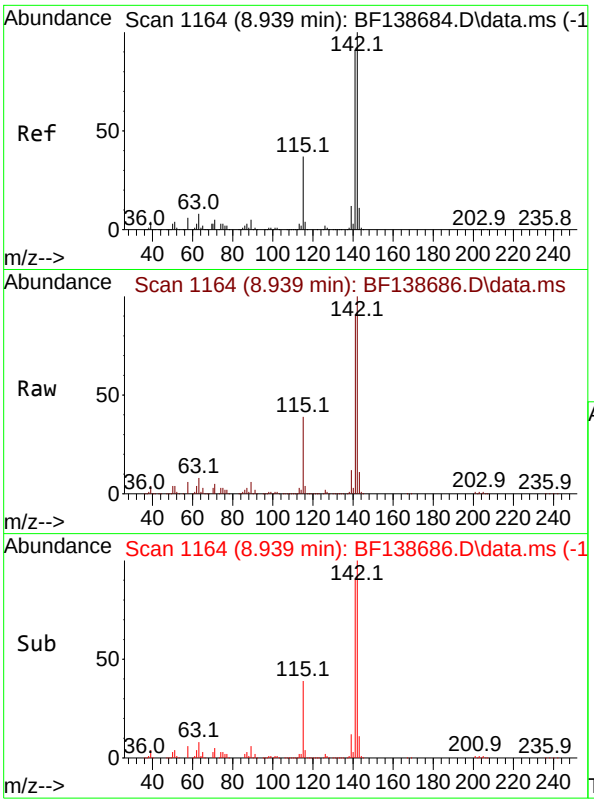




#37
2-Methylnaphthalene
Concen: 57.790 ng
RT: 8.839 min Scan# 1147
Delta R.T. -0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:142 Resp: 643115

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 89.2 | 70.8 | 106.2 |



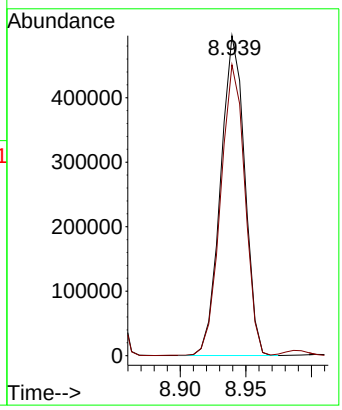


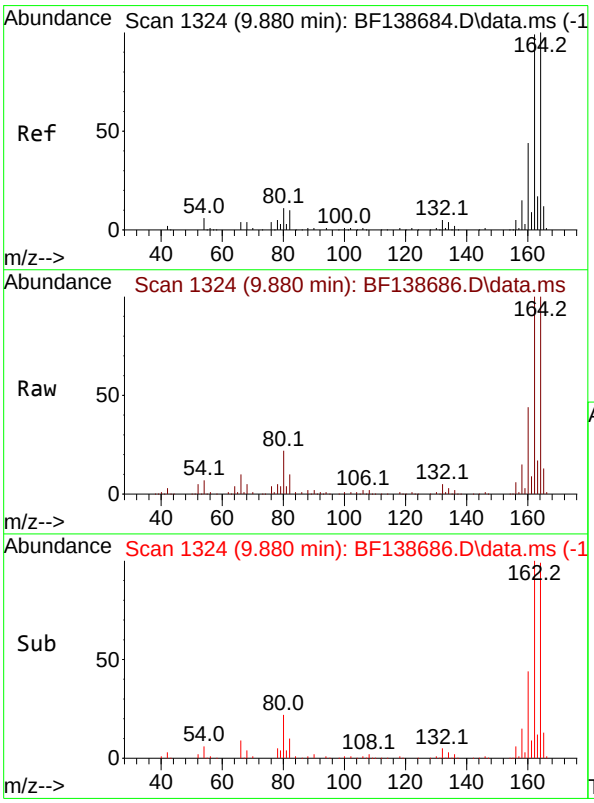

#38
1-Methylnaphthalene
Concen: 58.134 ng
RT: 8.939 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:142 Resp: 633938

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 90.9 | 73.1 | 109.7 |

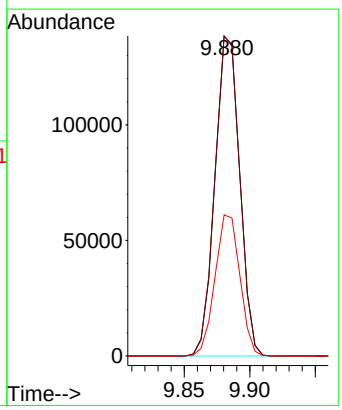


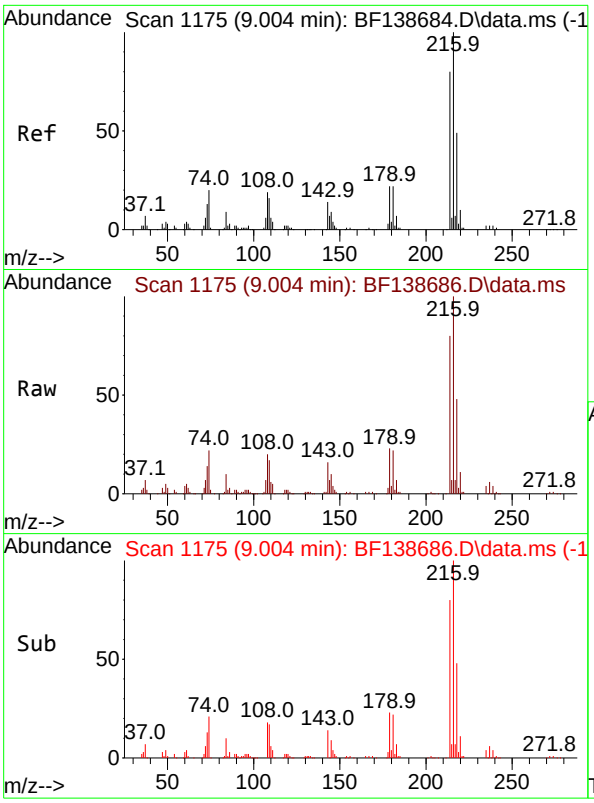




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.880 min Scan# 1324
Delta R.T. 0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:164 Resp: 181338

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 100.0 | 79.4 | 119.0 |
| 160 | 44.1 | 35.1 | 52.7 |



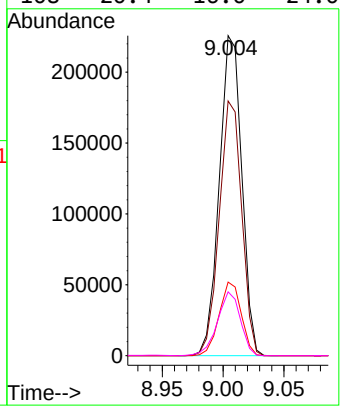


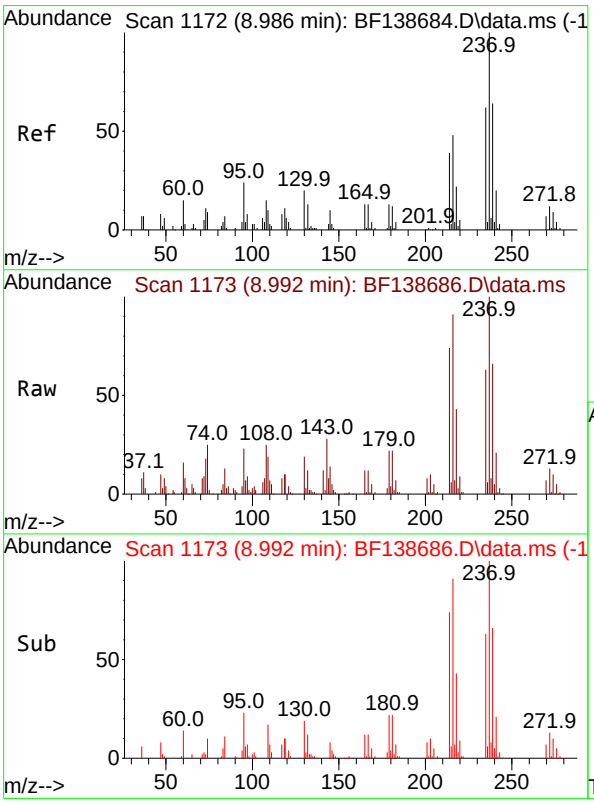

#40
1,2,4,5-Tetrachlorobenzene
Concen: 57.629 ng
RT: 9.004 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:216 Resp: 290297

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 216 | 100 | | |
| 214 | 79.5 | 63.9 | 95.9 |
| 179 | 22.7 | 17.8 | 26.6 |
| 108 | 20.4 | 16.0 | 24.0 |

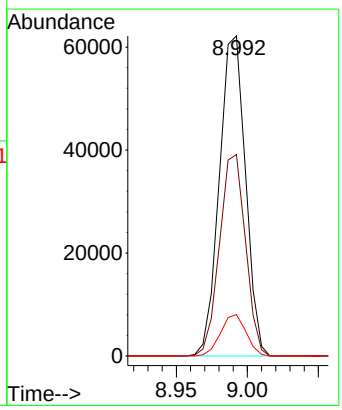


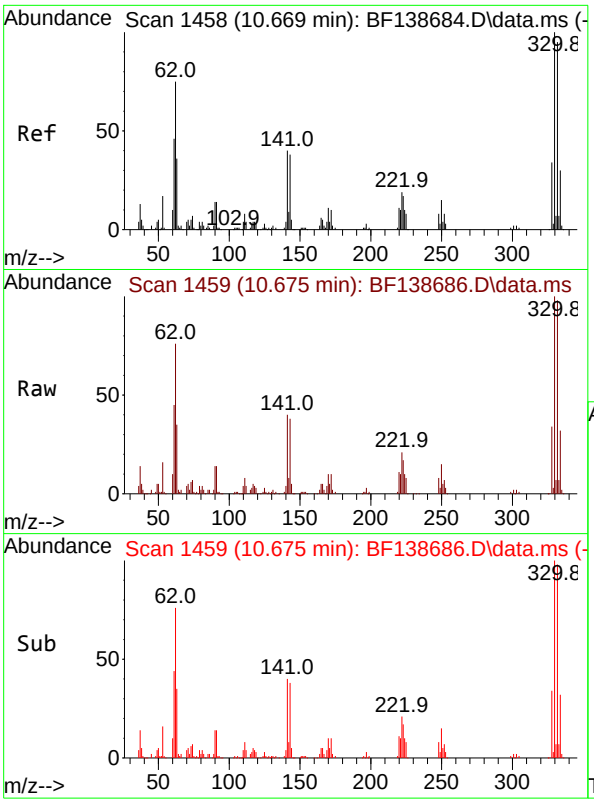




#41
Hexachlorocyclopentadiene
Concen: 61.472 ng
RT: 8.992 min Scan# 1173
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:237 Resp: 79605

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 237 | 100 | | |
| 235 | 63.0 | 41.8 | 81.8 |
| 272 | 13.0 | 0.0 | 32.2 |



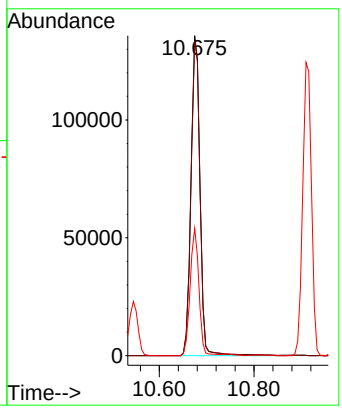


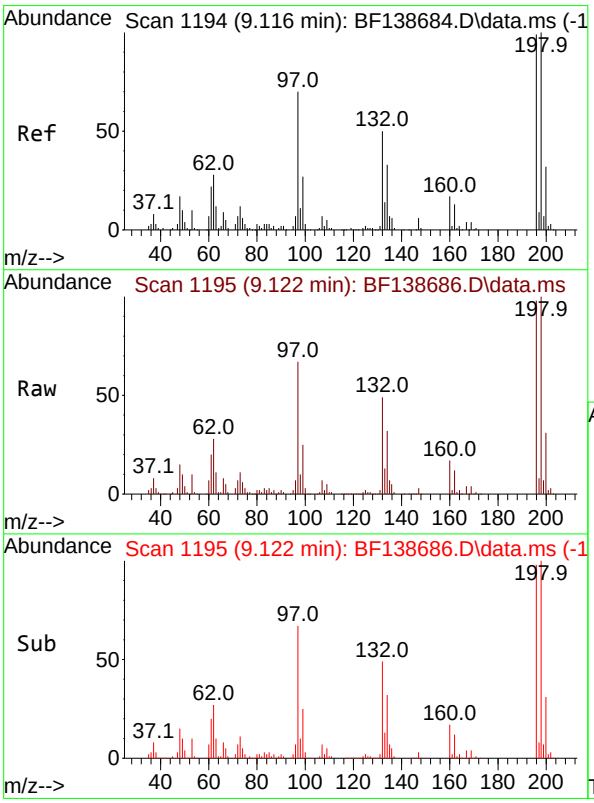

#42
2,4,6-Tribromophenol
Concen: 121.541 ng
RT: 10.675 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:330 Resp: 180537

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 97.4 | 76.4 | 114.6 |
| 141 | 38.5 | 31.1 | 46.7 |

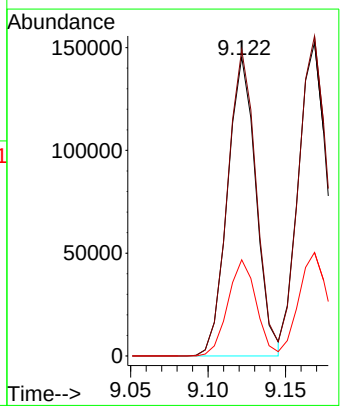


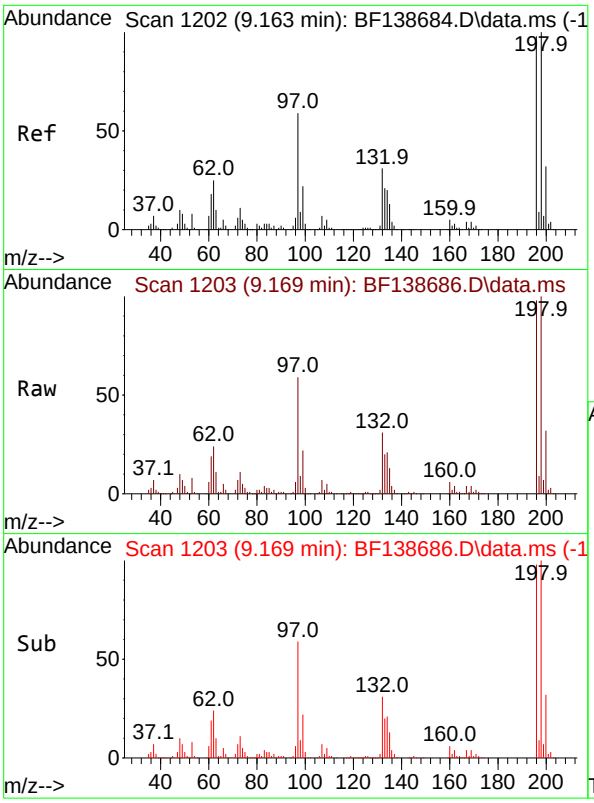




#43
2,4,6-Trichlorophenol
Concen: 60.432 ng
RT: 9.122 min Scan# 1195
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:196 Resp: 185606

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 102.4 | 80.5 | 120.7 |
| 200 | 32.1 | 25.9 | 38.9 |



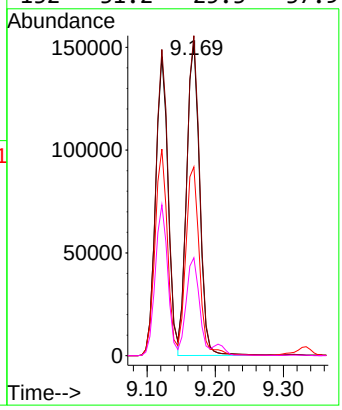


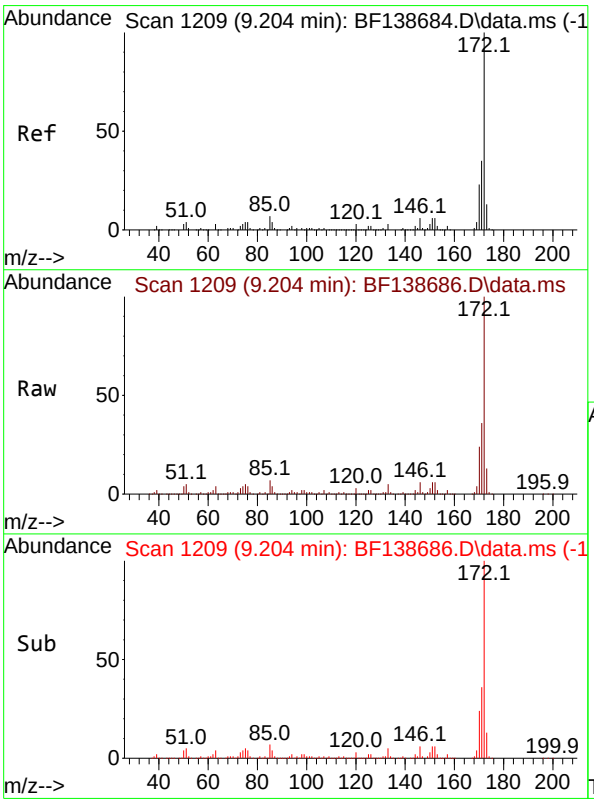

#44
2,4,5-Trichlorophenol
Concen: 59.615 ng
RT: 9.169 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:196 Resp: 200163

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 102.1 | 81.2 | 121.8 |
| 97 | 60.2 | 47.8 | 71.6 |
| 132 | 31.2 | 25.3 | 37.9 |

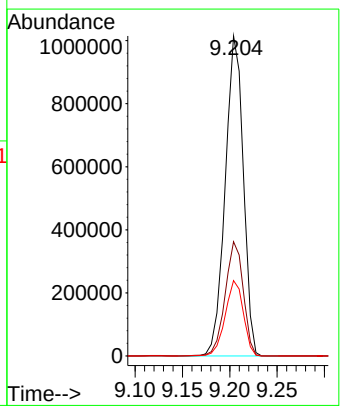


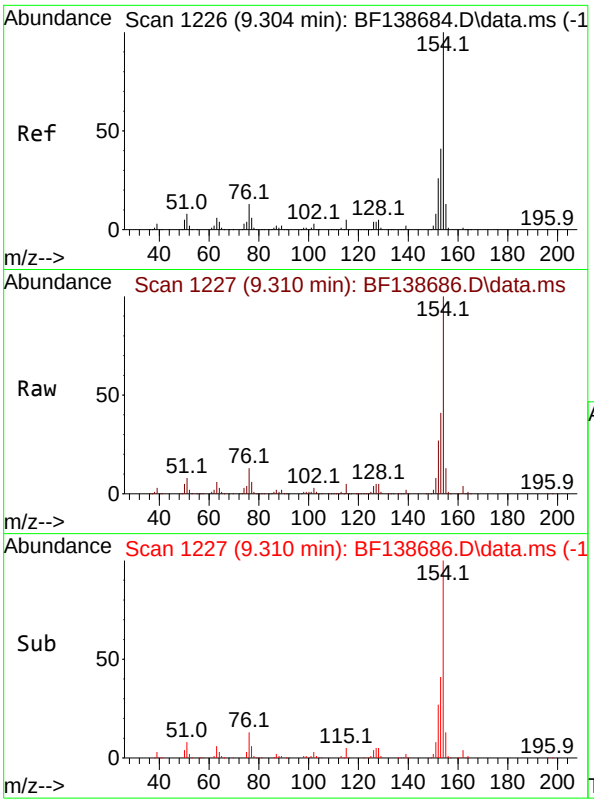




#45
2-Fluorobiphenyl
Concen: 111.967 ng
RT: 9.204 min Scan# 1209
Delta R.T. -0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:172 Resp: 1351342

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.7 | 28.3 | 42.5 |
| 170 | 23.6 | 18.8 | 28.2 |



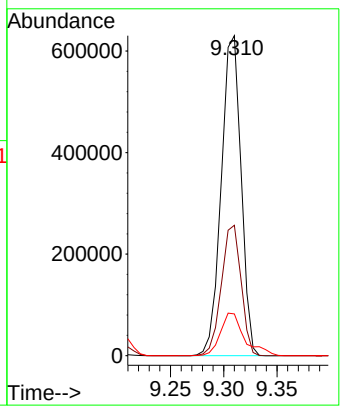


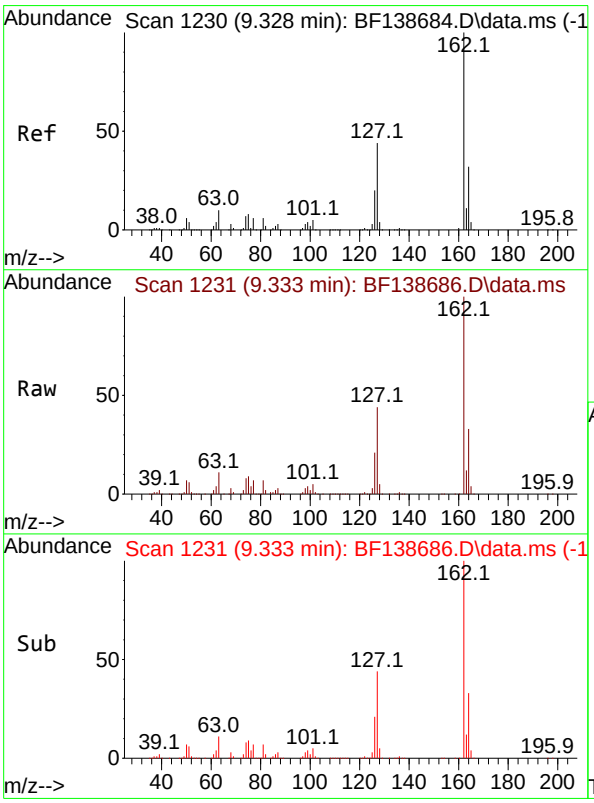

#46
1,1'-Biphenyl
Concen: 57.355 ng
RT: 9.310 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:154 Resp: 814566

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 40.8 | 20.8 | 60.8 |
| 76 | 13.1 | 0.0 | 32.8 |

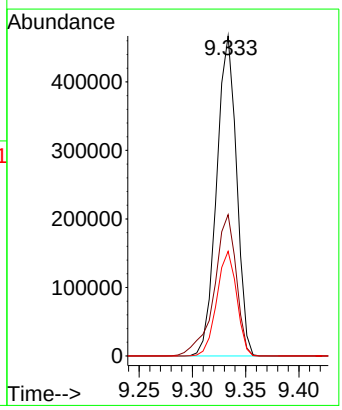


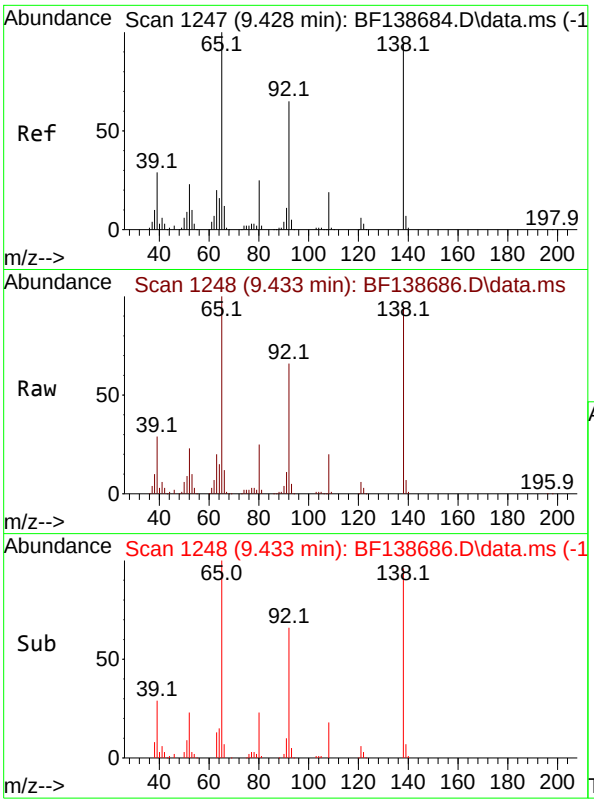




#47
2-Chloronaphthalene
Concen: 57.372 ng
RT: 9.333 min Scan# 1231
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:162 Resp: 605996

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 127 | 44.1 | 35.4 | 53.2 |
| 164 | 32.7 | 25.6 | 38.4 |



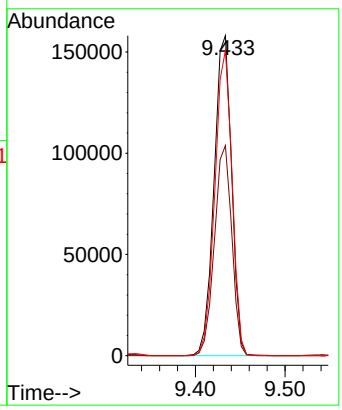


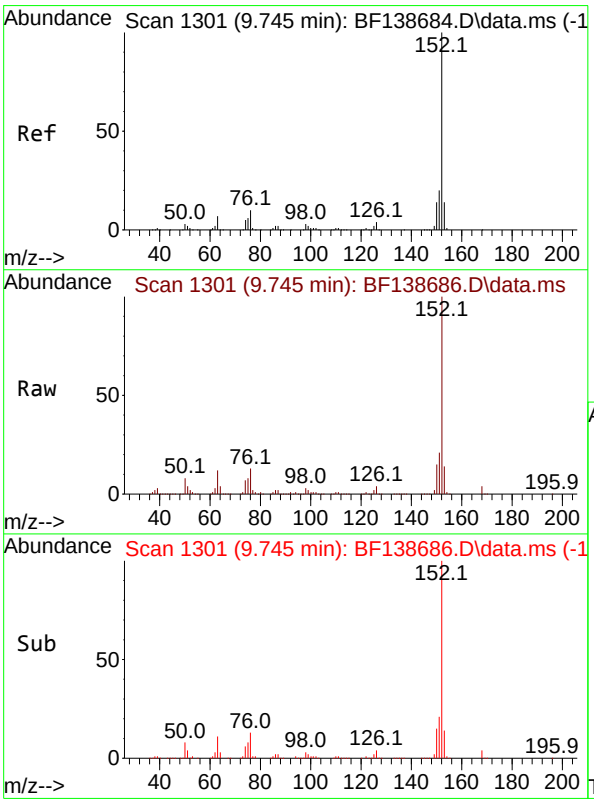

#48
2-Nitroaniline
Concen: 59.957 ng
RT: 9.433 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion: 65 Resp: 214695

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 92 | 65.7 | 52.0 | 78.0 |
| 138 | 95.4 | 76.2 | 114.4 |

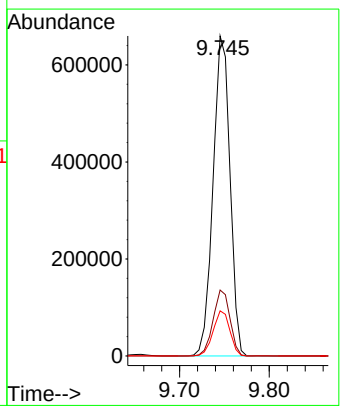


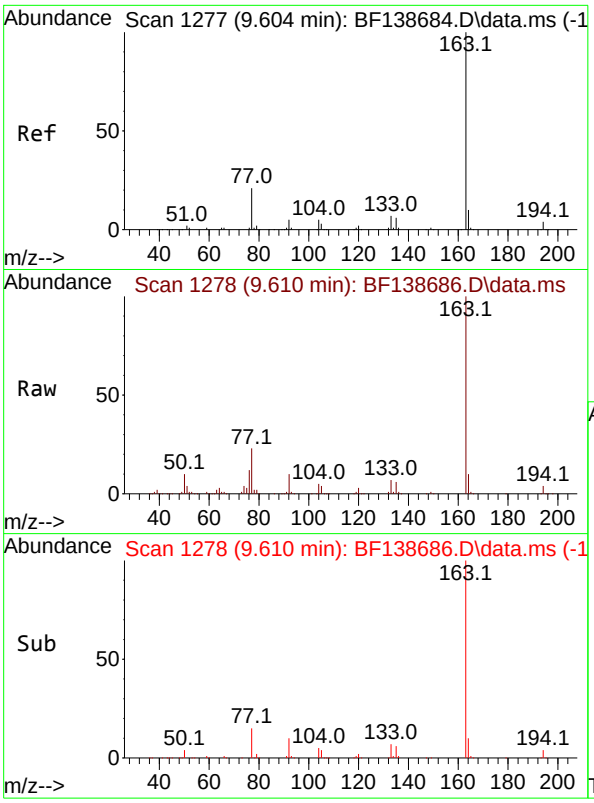




#49
Acenaphthylene
Concen: 57.648 ng
RT: 9.745 min Scan# 1301
Delta R.T. -0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:152 Resp: 863615

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.6 | 16.0 | 24.0 |
| 153 | 14.1 | 11.0 | 16.4 |



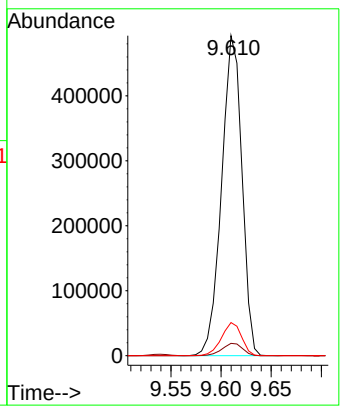


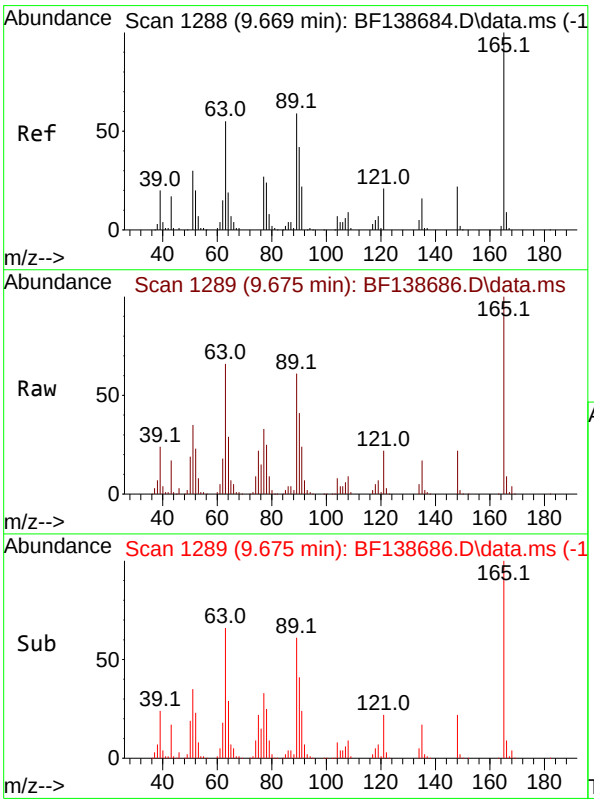

#50
Dimethylphthalate
Concen: 59.957 ng
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:163 Resp: 695202

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 3.9 | 3.1 | 4.7 |
| 164 | 10.3 | 7.8 | 11.8 |

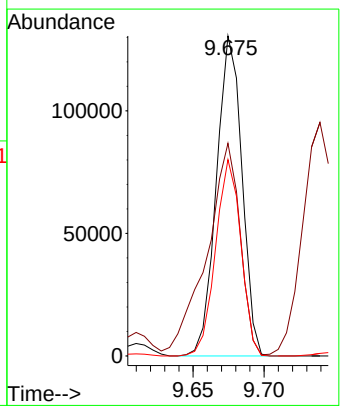


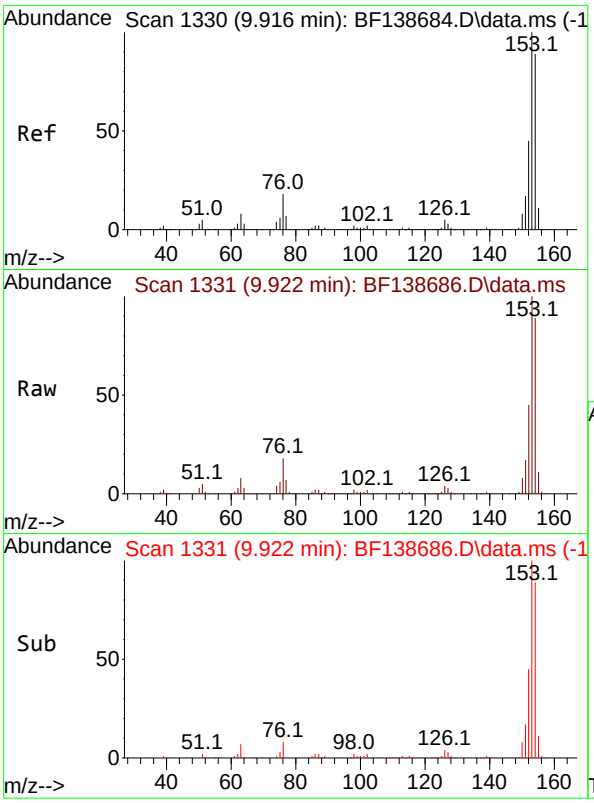




#51
2,6-Dinitrotoluene
Concen: 62.290 ng
RT: 9.675 min Scan# 1289
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:165 Resp: 163000

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 66.5 | 52.0 | 78.0 |
| 89 | 61.3 | 47.0 | 70.6 |



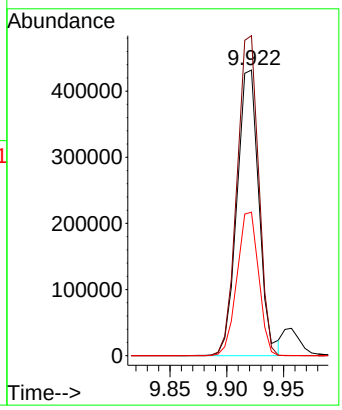


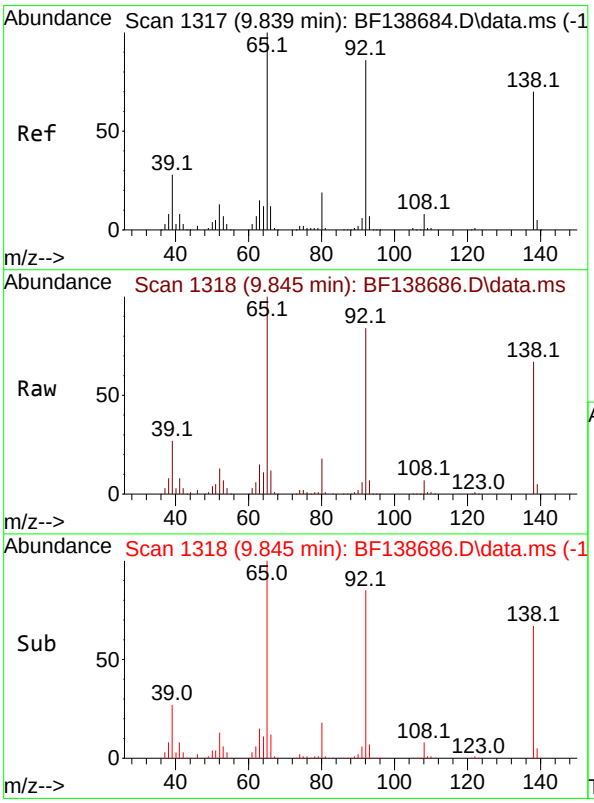

#52
Acenaphthene
Concen: 57.743 ng
RT: 9.922 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:154 Resp: 581492

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 112.0 | 89.9 | 134.9 |
| 152 | 50.3 | 40.6 | 60.8 |

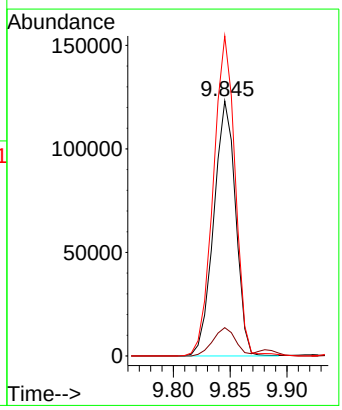


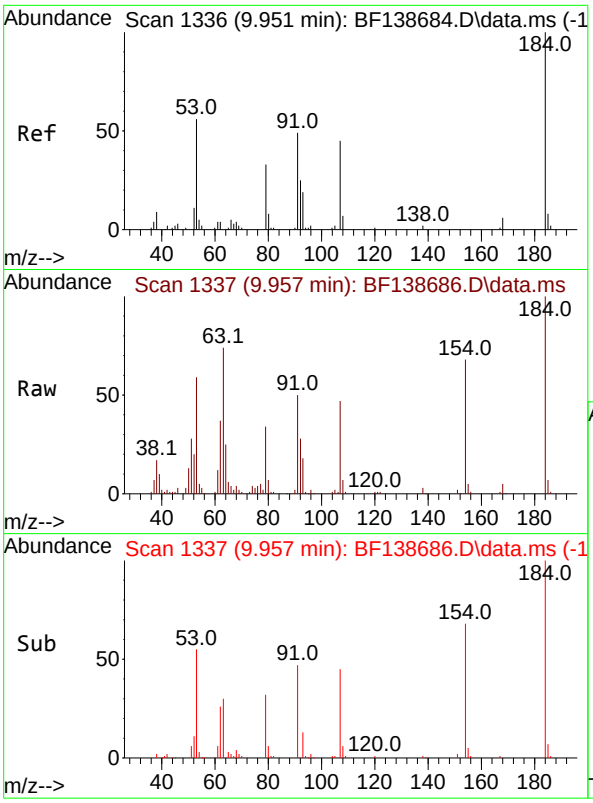




#53
3-Nitroaniline
Concen: 61.007 ng
RT: 9.845 min Scan# 1318
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:138 Resp: 165034

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 108 | 11.1 | 9.1 | 13.7 |
| 92 | 125.5 | 98.7 | 148.1 |



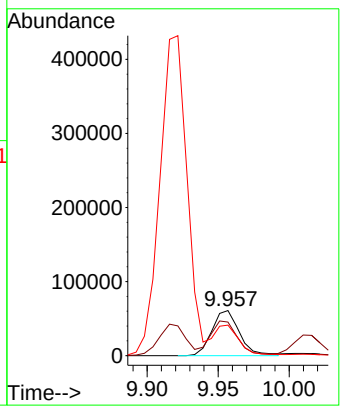


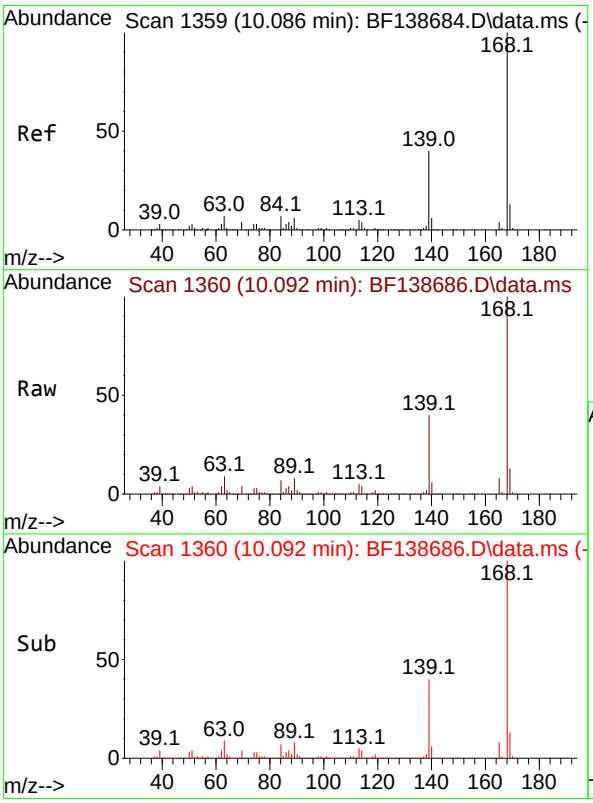

#54
2,4-Dinitrophenol
Concen: 68.448 ng
RT: 9.957 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:184 Resp: 82451

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 63 | 74.4 | 57.5 | 86.3 |
| 154 | 68.0 | 51.7 | 77.5 |

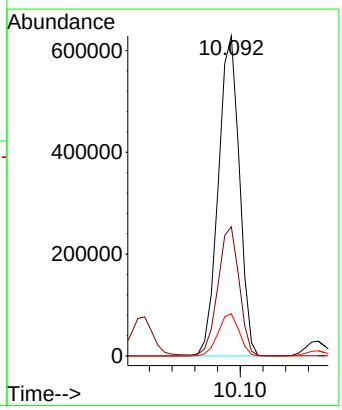


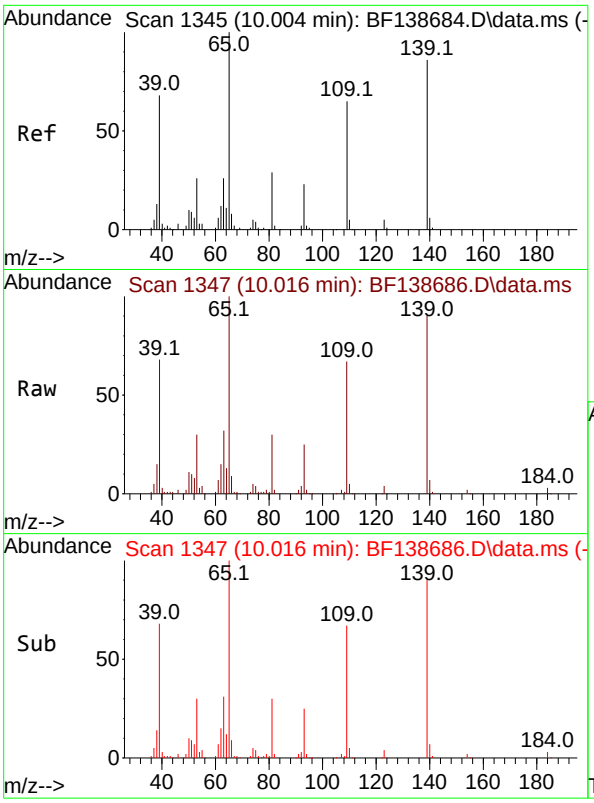




#55
Dibenzofuran
Concen: 56.948 ng
RT: 10.092 min Scan# 1360
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:168 Resp: 809534

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 40.4 | 32.6 | 49.0 |
| 169 | 13.2 | 10.7 | 16.1 |



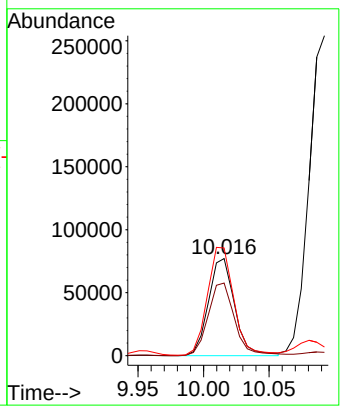


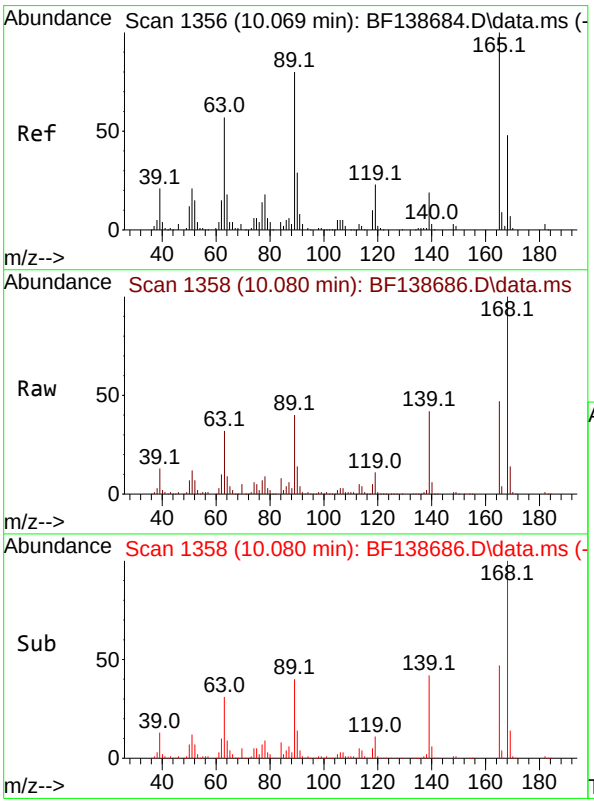

#56
4-Nitrophenol
Concen: 65.807 ng
RT: 10.016 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:139 Resp: 107052

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 74.9 | 55.5 | 95.5 |
| 65 | 111.0 | 96.7 | 136.7 |

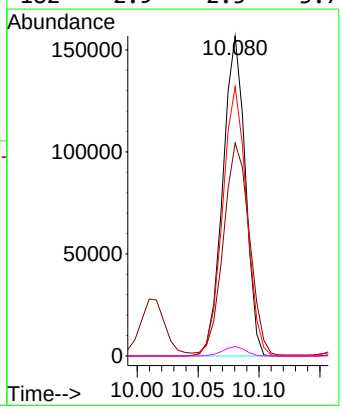


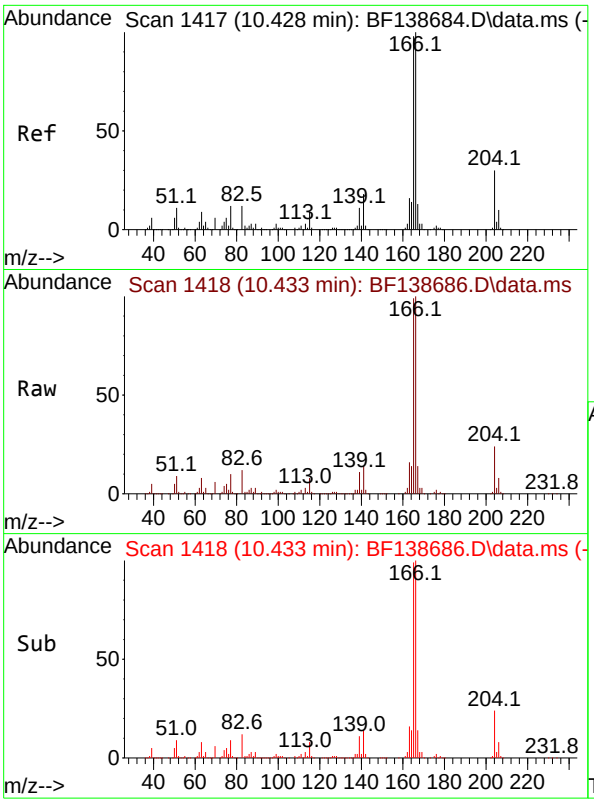




#57
2,4-Dinitrotoluene
Concen: 60.388 ng
RT: 10.080 min Scan# 1358
Delta R.T. 0.012 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:165 Resp: 201610

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 66.5 | 46.3 | 69.5 |
| 89 | 84.2 | 64.2 | 96.4 |
| 182 | 2.9 | 2.5 | 3.7 |



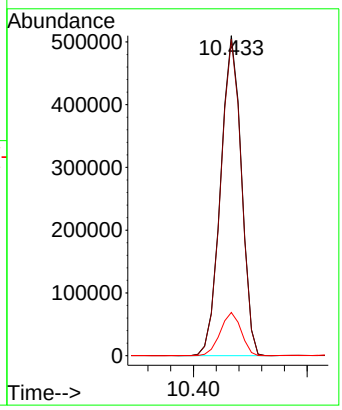


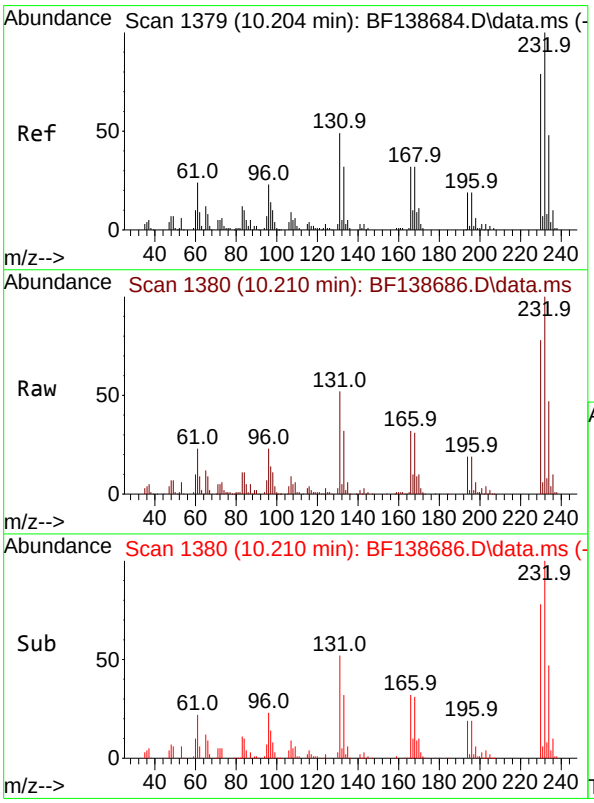

#58
Fluorene
Concen: 57.140 ng
RT: 10.433 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:166 Resp: 646844

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 98.8 | 78.4 | 117.6 |
| 167 | 13.5 | 10.6 | 16.0 |

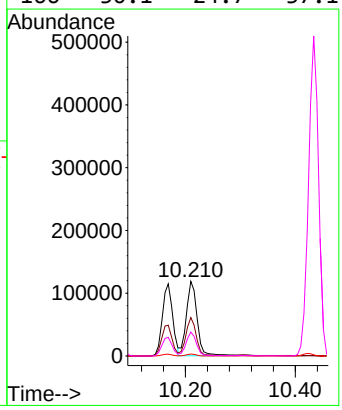


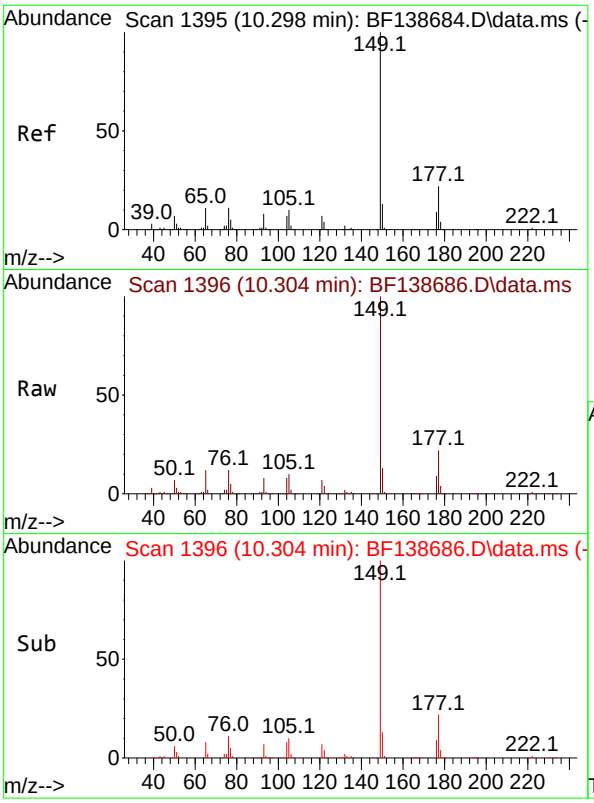




#59
2,3,4,6-Tetrachlorophenol
Concen: 63.494 ng
RT: 10.210 min Scan# 1380
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:232 Resp: 162987

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 232 | 100 | | |
| 131 | 48.9 | 37.0 | 55.4 |
| 130 | 2.4 | 2.0 | 3.0 |
| 166 | 30.1 | 24.7 | 37.1 |



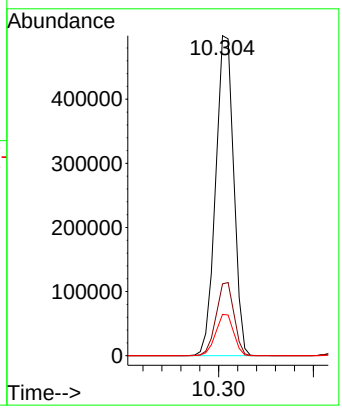


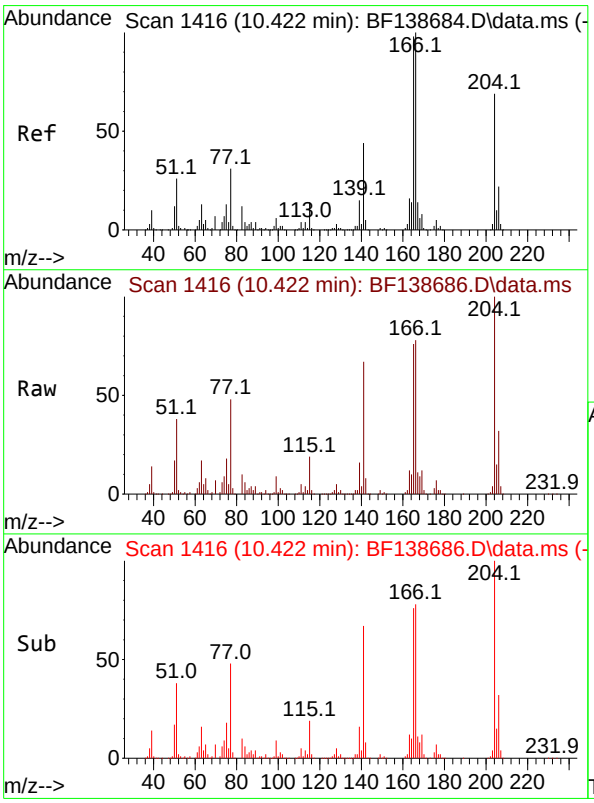

#60
Diethylphthalate
Concen: 60.161 ng
RT: 10.304 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:149 Resp: 661415

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 177 | 22.5 | 17.8 | 26.8 |
| 150 | 12.9 | 10.1 | 15.1 |

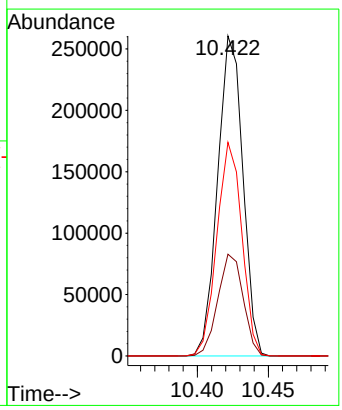


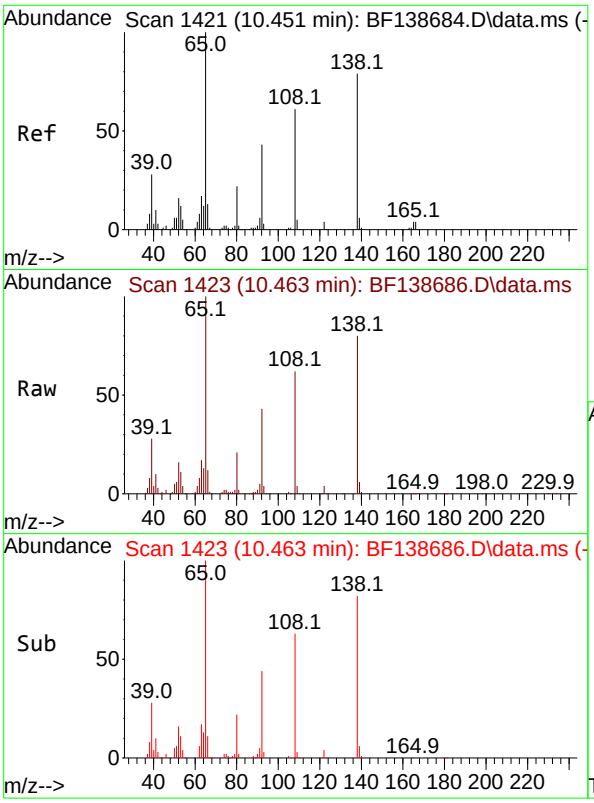




#61
4-Chlorophenyl-phenylether
Concen: 57.740 ng
RT: 10.422 min Scan# 1416
Delta R.T. -0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:204 Resp: 321470

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 204 | 100 | | |
| 206 | 31.8 | 26.1 | 39.1 |
| 141 | 66.8 | 51.4 | 77.0 |



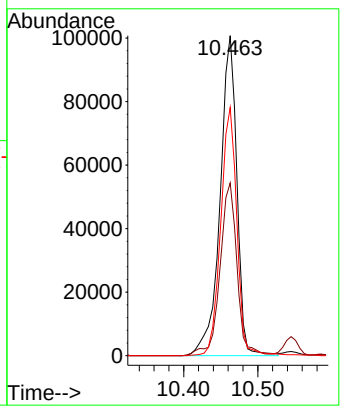


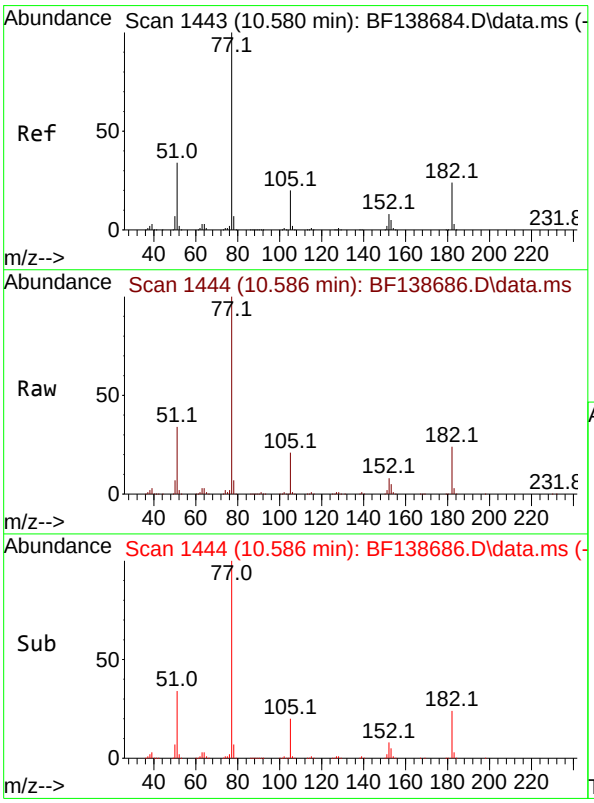

#62
4-Nitroaniline
Concen: 61.881 ng
RT: 10.463 min Scan# 14
Delta R.T. 0.012 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:138 Resp: 159081

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 54.0 | 34.2 | 74.2 |
| 108 | 77.6 | 56.2 | 96.2 |

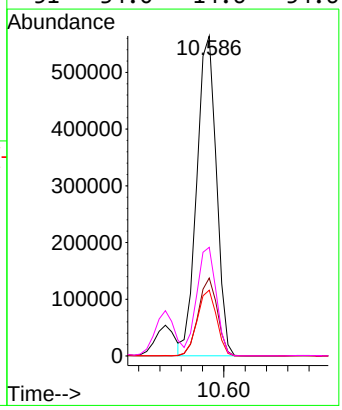


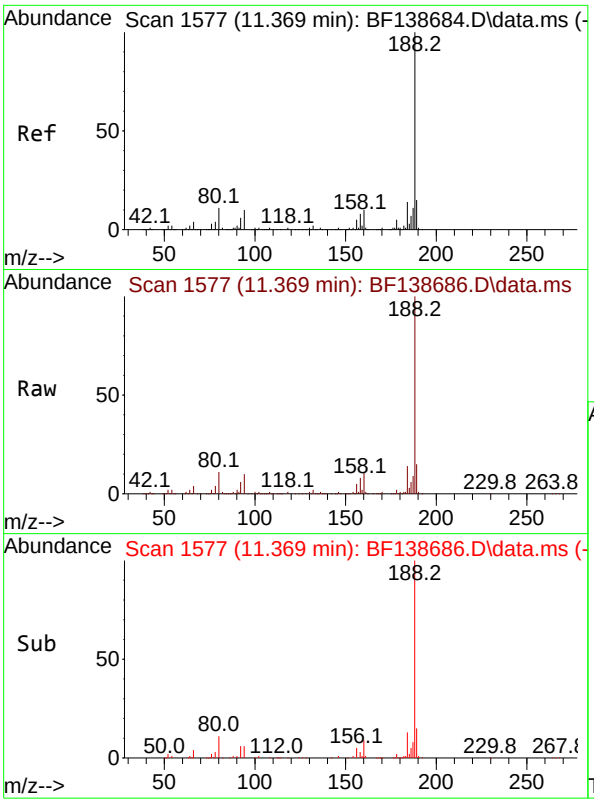




#63
Azobenzene
Concen: 59.288 ng
RT: 10.586 min Scan# 1444
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion: 77 Resp: 722929

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 182 | 24.3 | 3.4 | 43.4 |
| 105 | 20.5 | 0.2 | 40.2 |
| 51 | 34.0 | 14.6 | 54.6 |



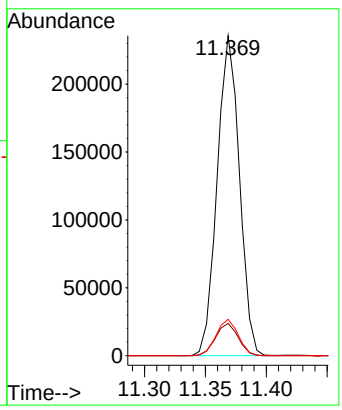


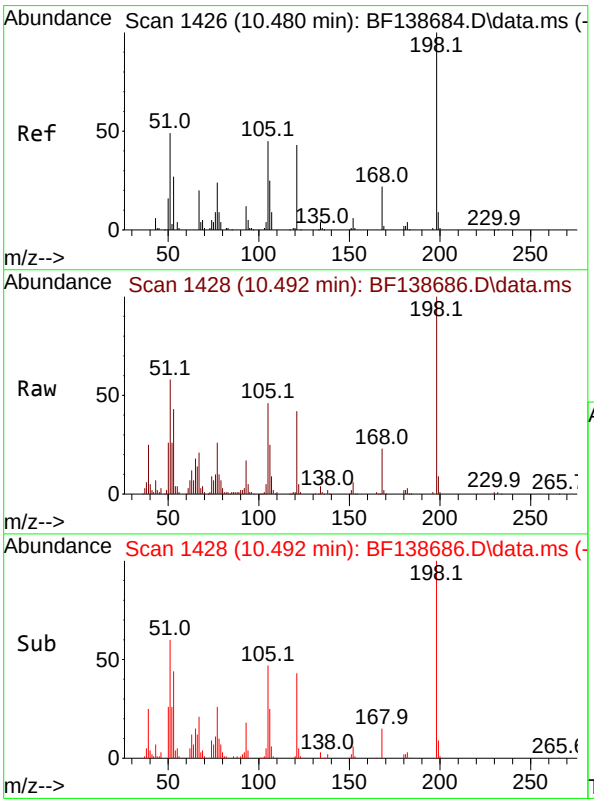

#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.369 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:188 Resp: 299773

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 10.1 | 7.6 | 11.4 |
| 80 | 11.3 | 8.6 | 12.8 |

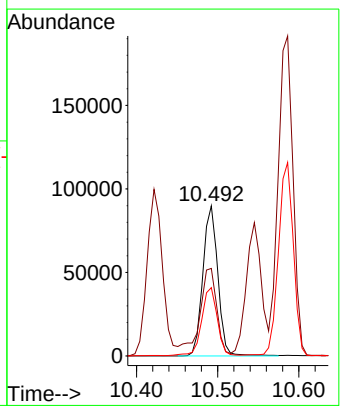


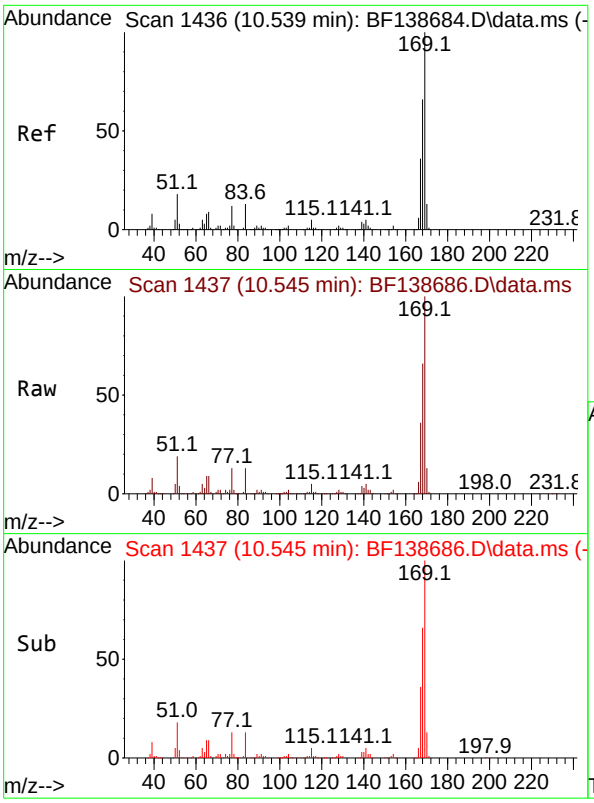




#65
4,6-Dinitro-2-methylphenol
Concen: 62.887 ng
RT: 10.492 min Scan# 1428
Delta R.T. 0.012 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:198 Resp: 115013

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 58.4 | 39.9 | 79.9 |
| 105 | 45.6 | 26.1 | 66.1 |



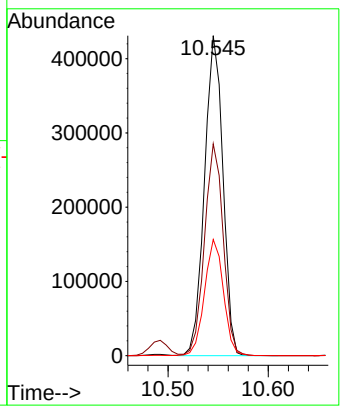


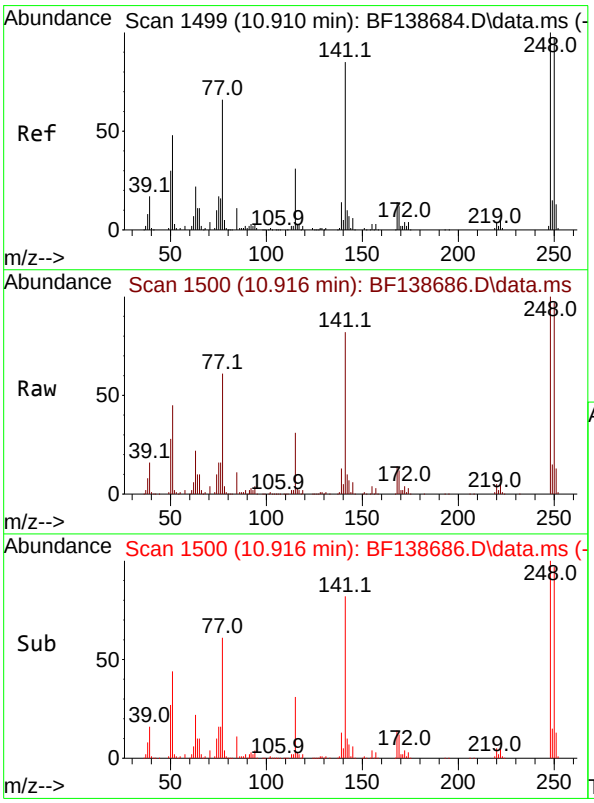

#66
n-Nitrosodiphenylamine
Concen: 58.728 ng
RT: 10.545 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:169 Resp: 550299

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 66.2 | 53.0 | 79.6 |
| 167 | 36.3 | 29.0 | 43.6 |

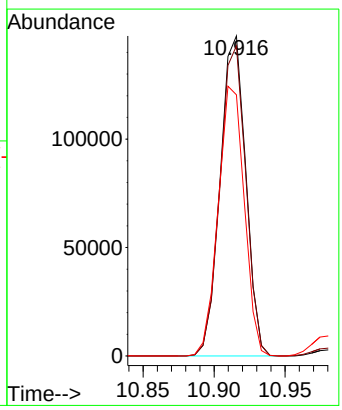


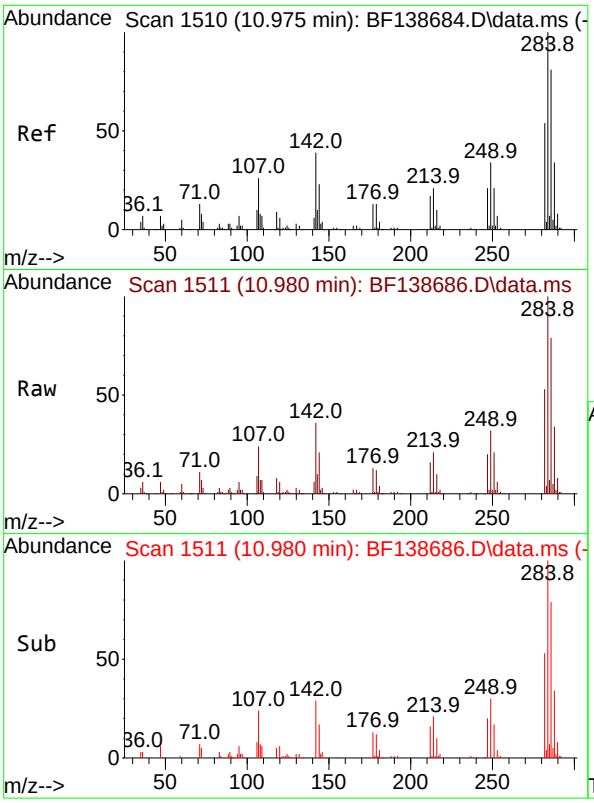




#67
4-Bromophenyl-phenylether
Concen: 57.182 ng
RT: 10.916 min Scan# 1500
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:248 Resp: 185589

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 96.9 | 77.7 | 116.5 |
| 141 | 81.6 | 68.0 | 102.0 |



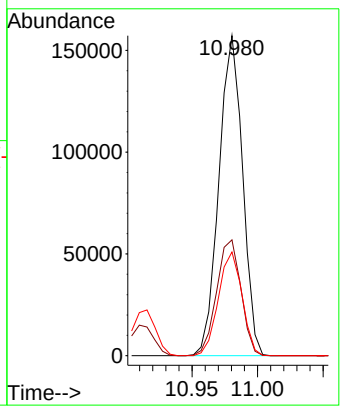


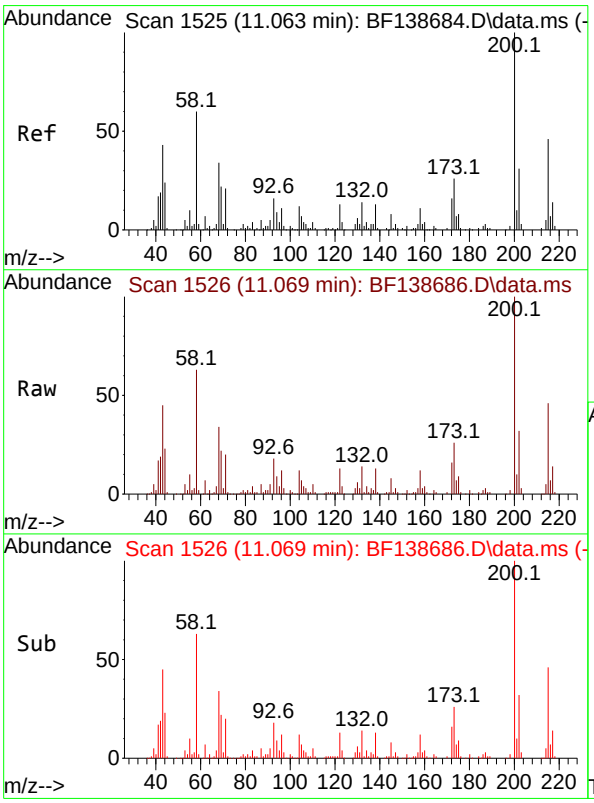

#68
Hexachlorobenzene
Concen: 58.832 ng
RT: 10.980 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:284 Resp: 197152

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 36.2 | 31.3 | 46.9 |
| 249 | 32.4 | 27.2 | 40.8 |

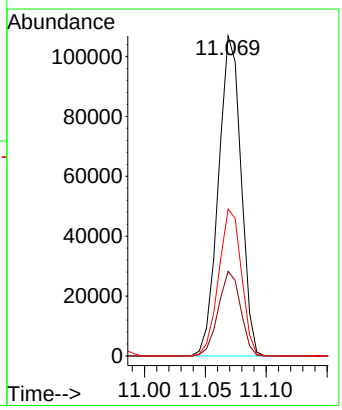


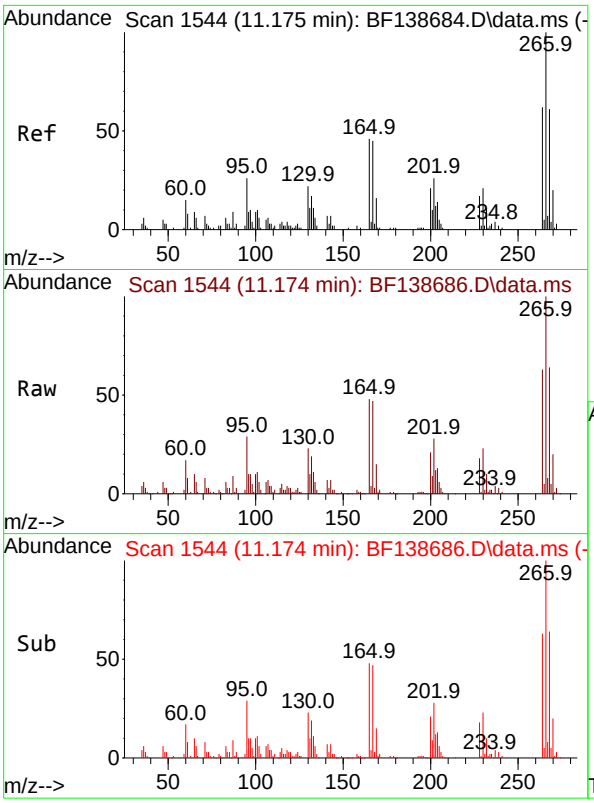




#69
Atrazine
Concen: 57.055 ng
RT: 11.069 min Scan# 1526
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:200 Resp: 137932

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 26.5 | 6.0 | 46.0 |
| 215 | 45.9 | 26.1 | 66.1 |



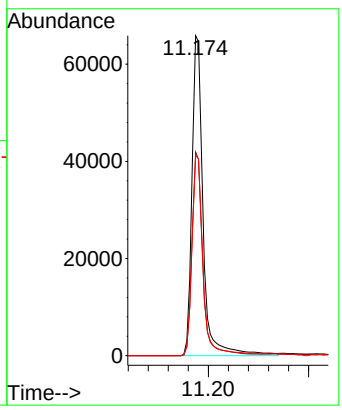


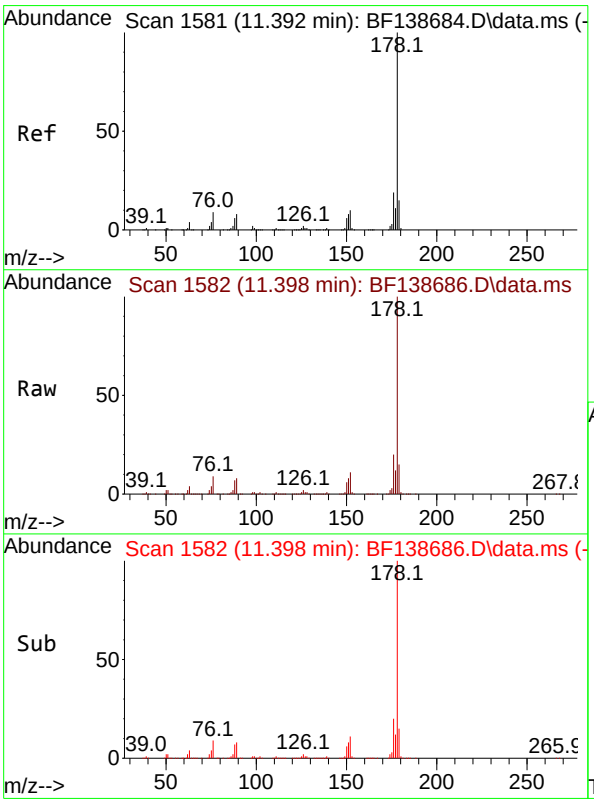

#70
Pentachlorophenol
Concen: 67.437 ng
RT: 11.174 min Scan# 1
Delta R.T. -0.001 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:266 Resp: 101863

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 268 | 63.6 | 49.2 | 73.8 |
| 264 | 62.6 | 49.8 | 74.6 |

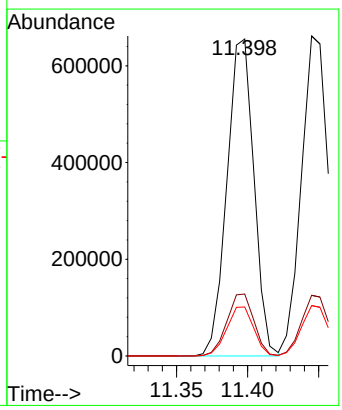


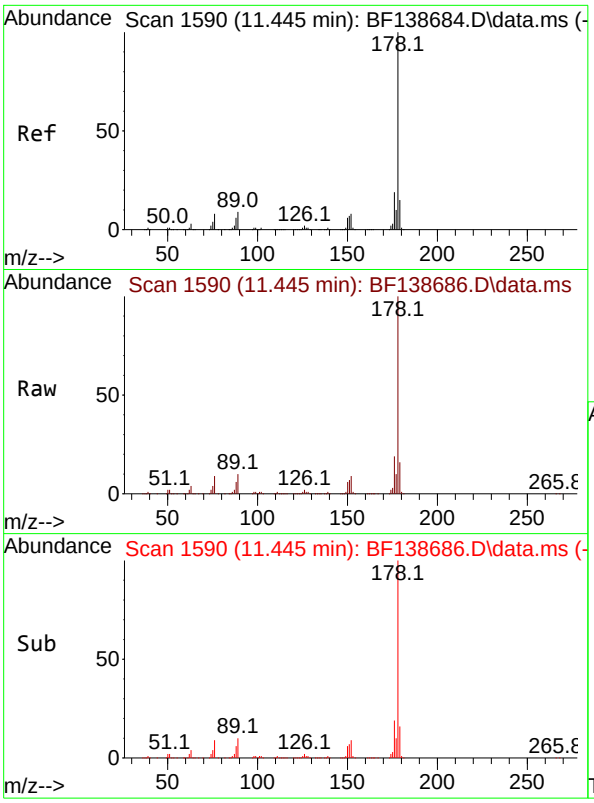




#71
Phenanthrene
Concen: 56.216 ng
RT: 11.398 min Scan# 1582
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:178 Resp: 867741

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.5 | 15.4 | 23.0 |
| 179 | 15.4 | 12.2 | 18.2 |



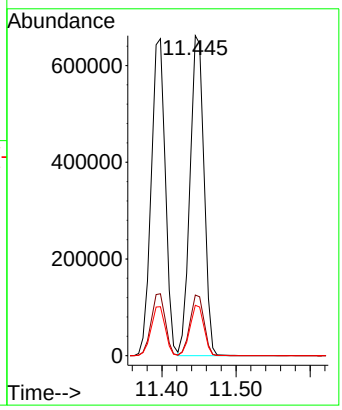


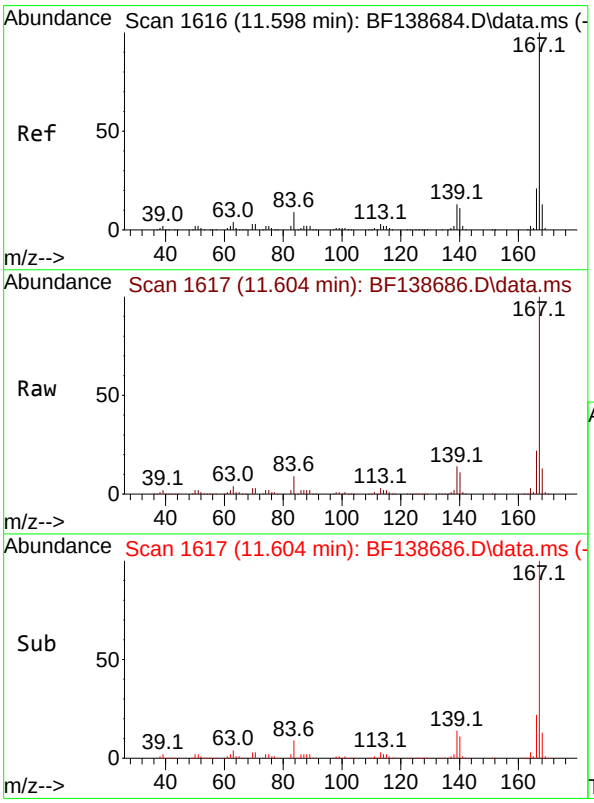

#72
Anthracene
Concen: 57.177 ng
RT: 11.445 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:178 Resp: 869464

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.0 | 14.9 | 22.3 |
| 179 | 15.8 | 12.4 | 18.6 |

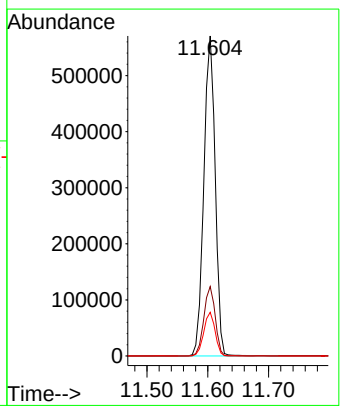


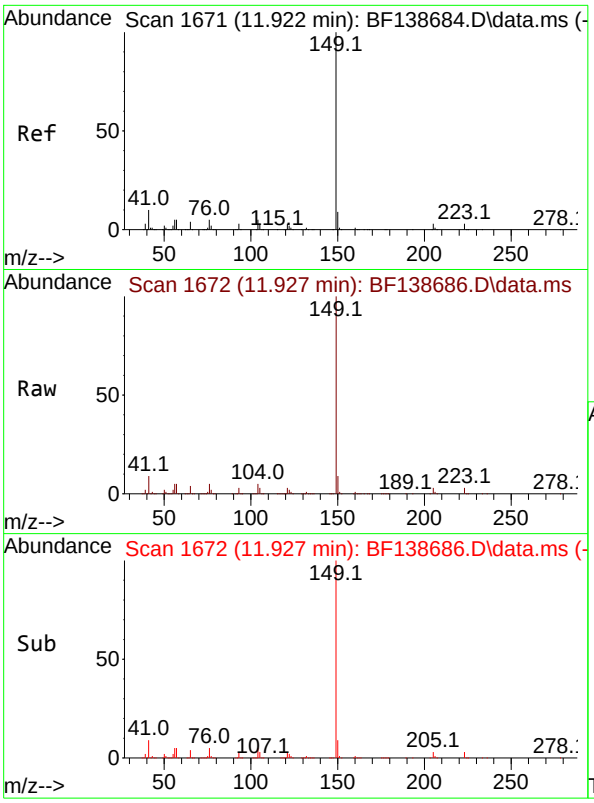




#73
Carbazole
Concen: 56.558 ng
RT: 11.604 min Scan# 1617
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:167 Resp: 742002

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 21.7 | 17.2 | 25.8 |
| 139 | 13.7 | 10.6 | 16.0 |



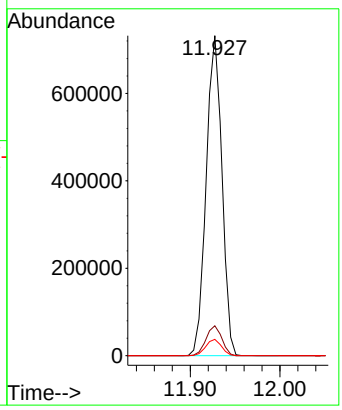


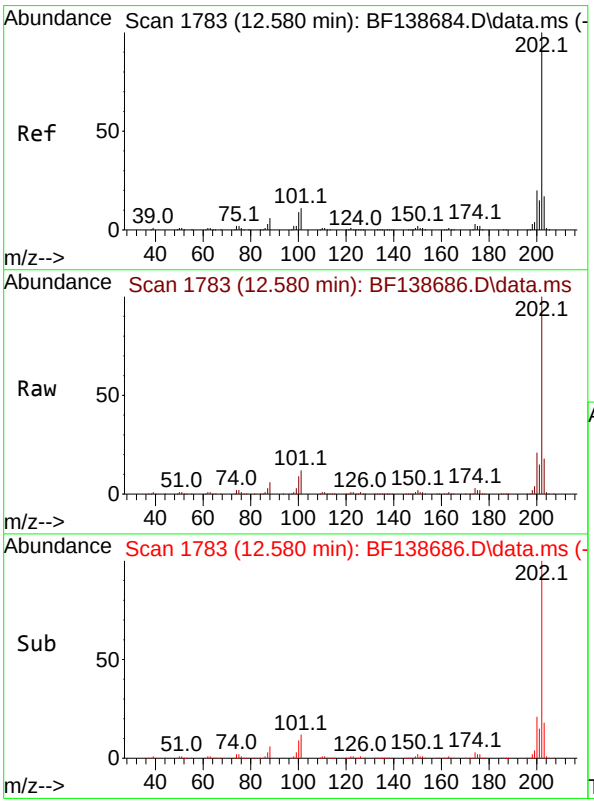

#74
Di-n-butylphthalate
Concen: 60.481 ng
RT: 11.927 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:149 Resp: 891999

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 9.4 | 7.4 | 11.0 |
| 104 | 5.1 | 4.1 | 6.1 |

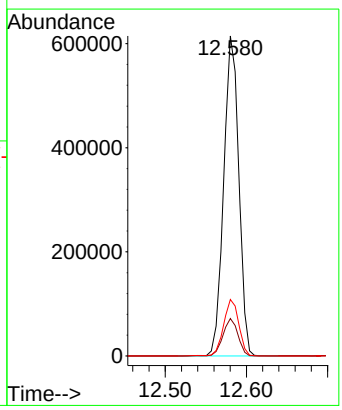


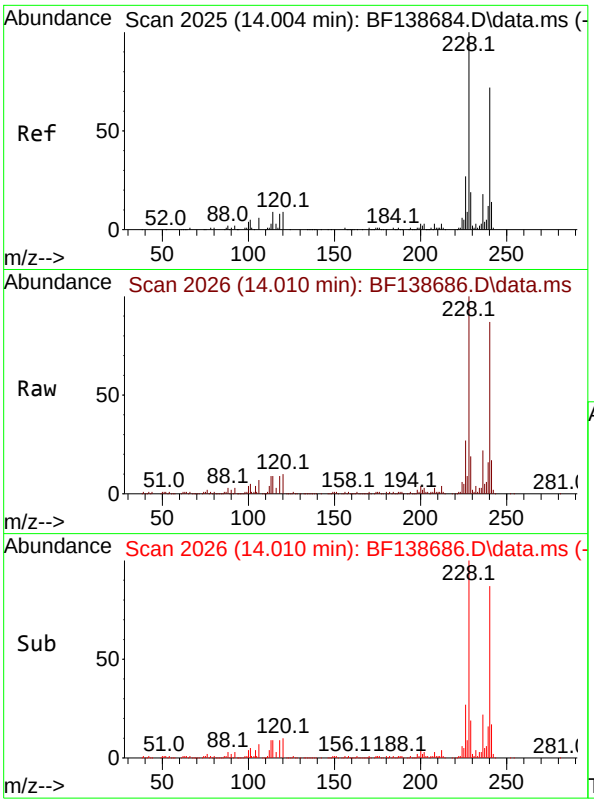




#75
Fluoranthene
Concen: 55.309 ng
RT: 12.580 min Scan# 1783
Delta R.T. -0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:202 Resp: 797022

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.7 | 0.0 | 31.2 |
| 203 | 17.7 | 0.0 | 37.3 |



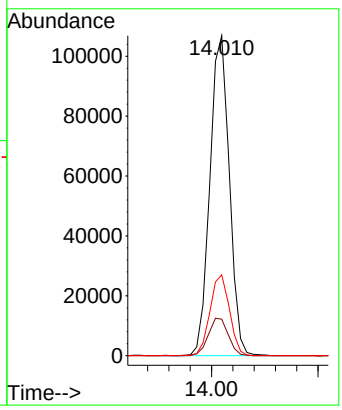


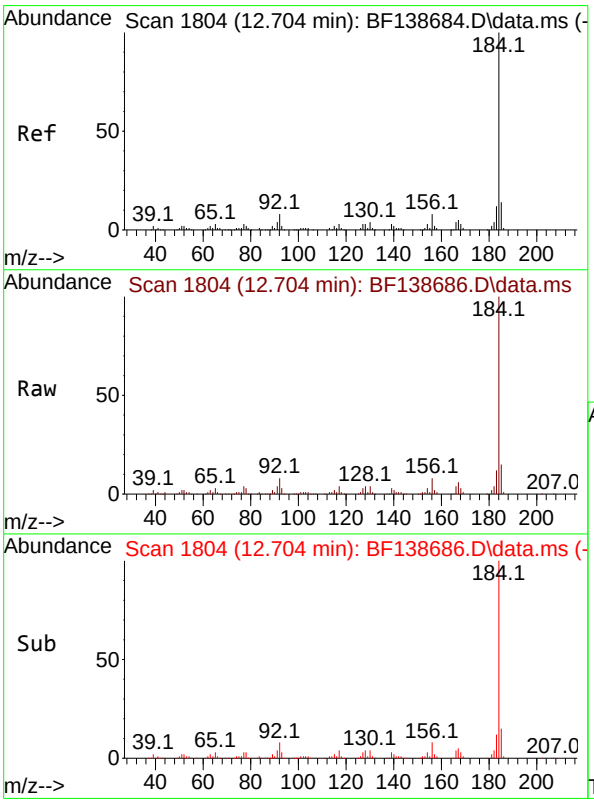

#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.010 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:240 Resp: 135234

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 11.4 | 10.2 | 15.4 |
| 236 | 25.3 | 19.8 | 29.8 |

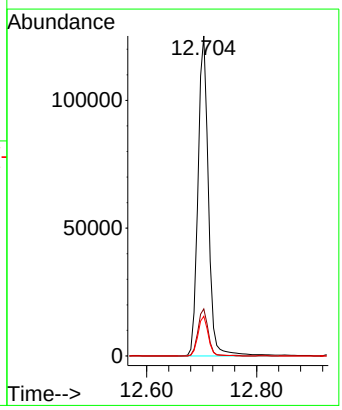


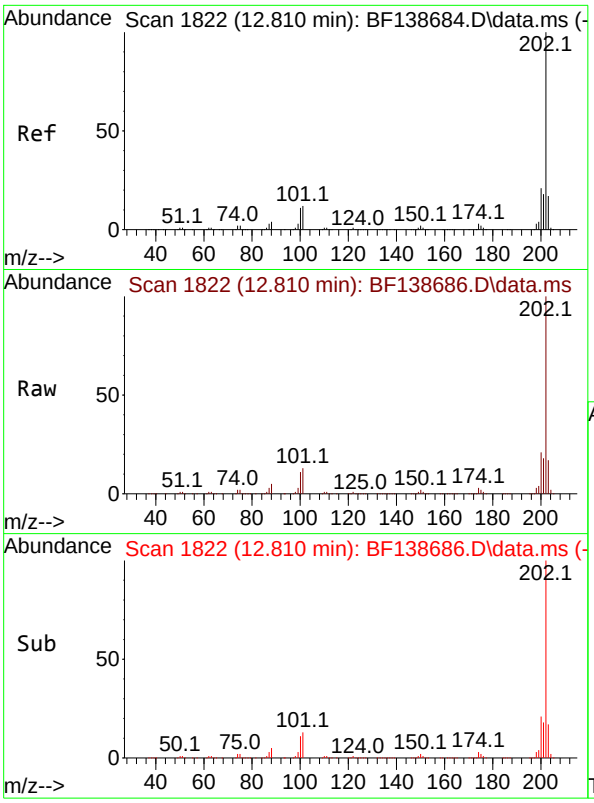




#77
Benzidine
Concen: 51.170 ng
RT: 12.704 min Scan# 1804
Delta R.T. -0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:184 Resp: 165511

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 185 | 14.7 | 11.1 | 16.7 |
| 183 | 12.4 | 9.6 | 14.4 |



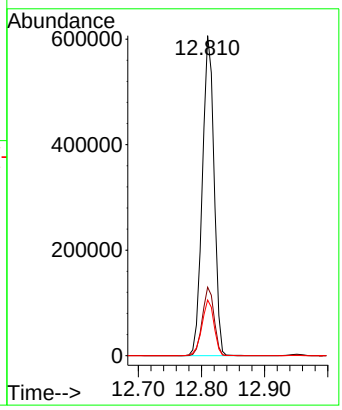


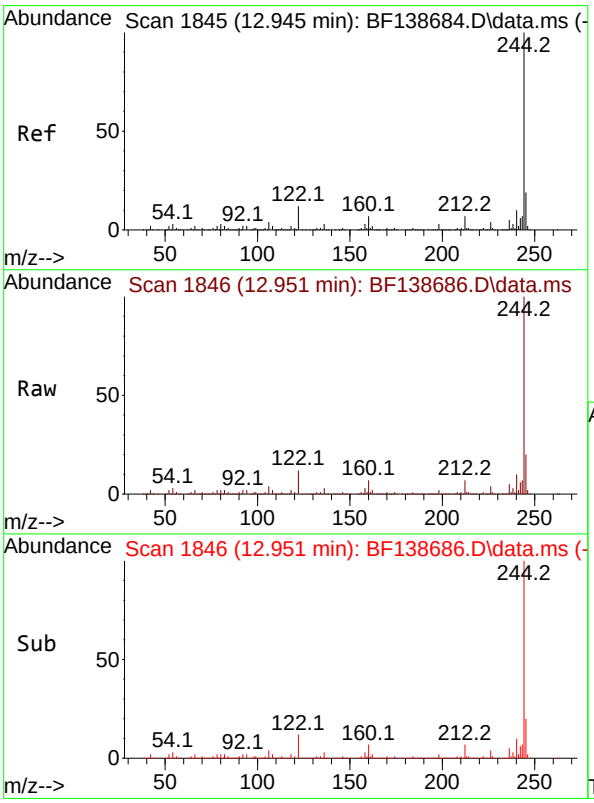

#78
Pyrene
Concen: 61.448 ng
RT: 12.810 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:202 Resp: 782403

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.4 | 16.8 | 25.2 |
| 203 | 17.4 | 13.8 | 20.6 |

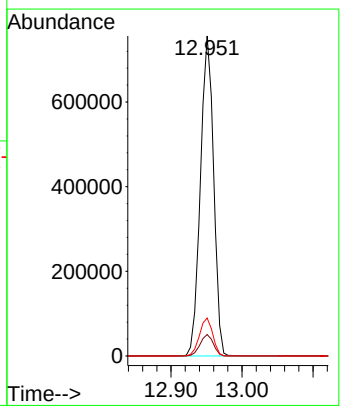


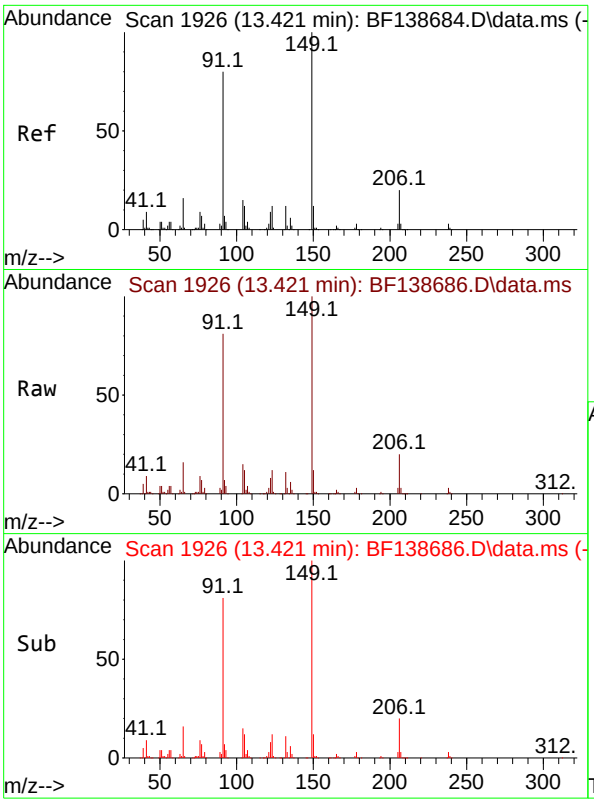




#79
Terphenyl-d14
Concen: 121.541 ng
RT: 12.951 min Scan# 1846
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:244 Resp: 981714

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 6.7 | 5.4 | 8.2 |
| 122 | 11.9 | 9.6 | 14.4 |



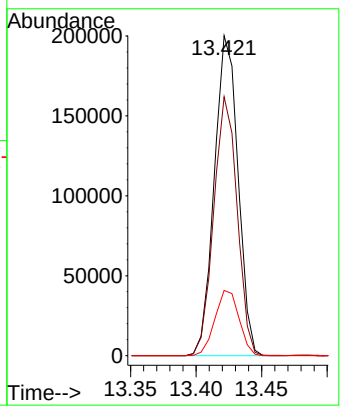


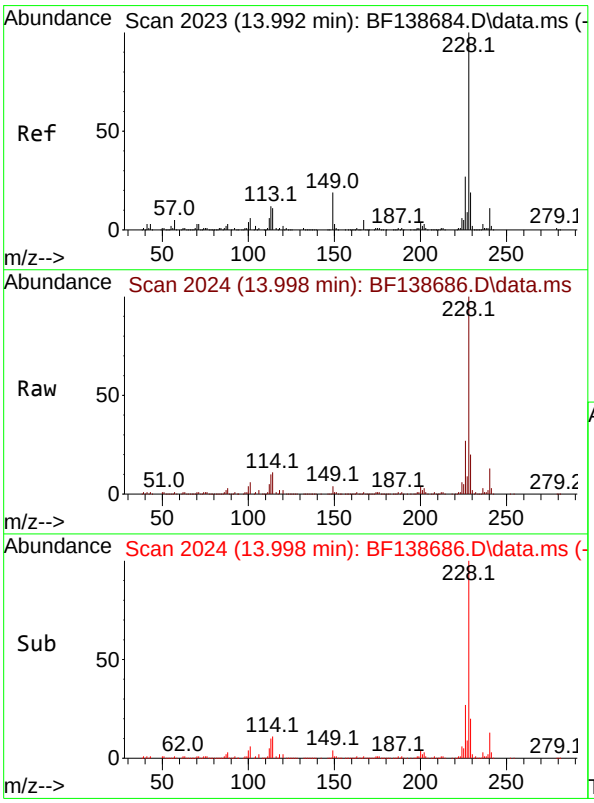

#80
Butylbenzylphthalate
Concen: 61.709 ng
RT: 13.421 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:149 Resp: 251612

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 91 | 80.9 | 63.7 | 95.5 |
| 206 | 20.4 | 16.2 | 24.2 |

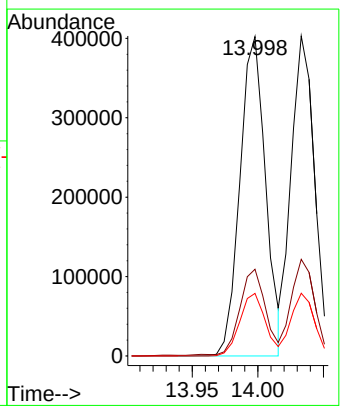


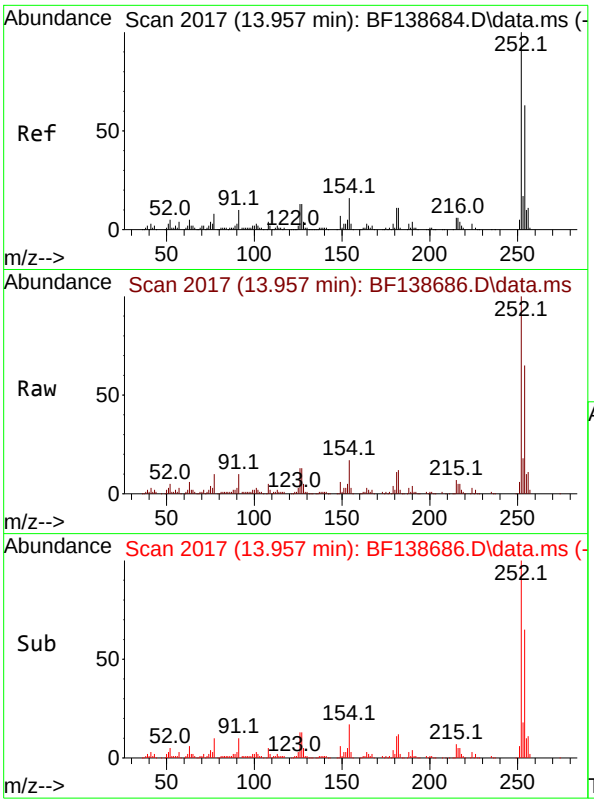




#81
Benzo(a)anthracene
Concen: 58.859 ng
RT: 13.998 min Scan# 2024
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:228 Resp: 548125

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.2 | 22.1 | 33.1 |
| 229 | 19.6 | 15.4 | 23.0 |



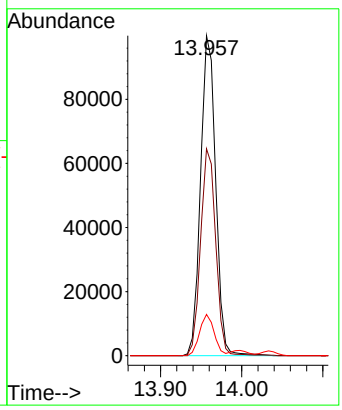


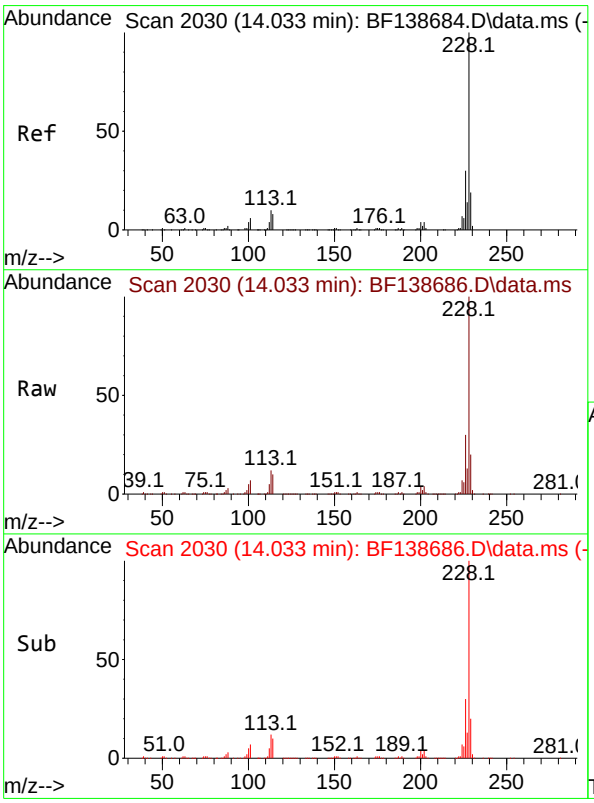

#82
3,3'-Dichlorobenzidine
Concen: 54.238 ng
RT: 13.957 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:252 Resp: 129254

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 64.6 | 50.8 | 76.2 |
| 126 | 12.9 | 10.2 | 15.2 |

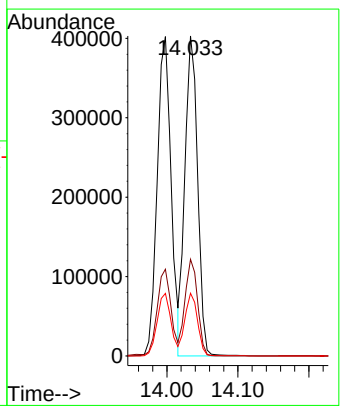


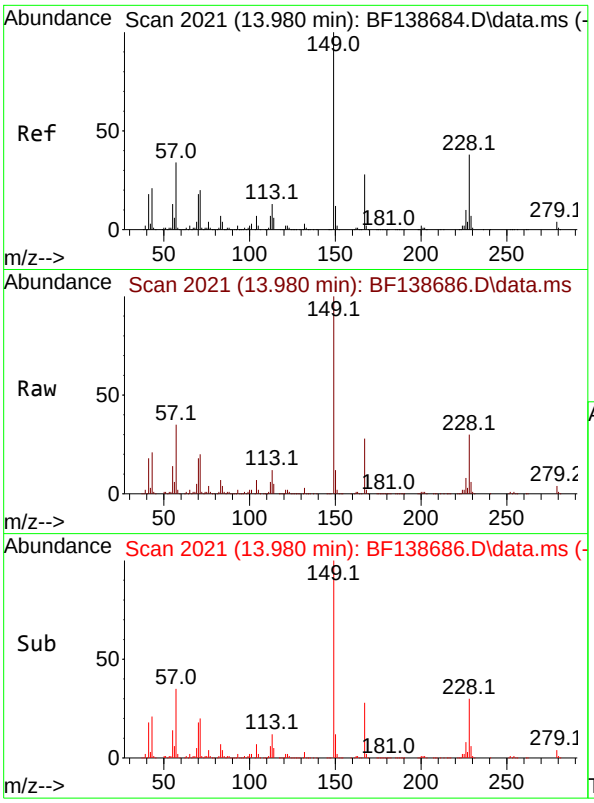




#83
Chrysene
Concen: 59.365 ng
RT: 14.033 min Scan# 2030
Delta R.T. -0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:228 Resp: 498766

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.2 | 23.7 | 35.5 |
| 229 | 19.6 | 15.0 | 22.6 |



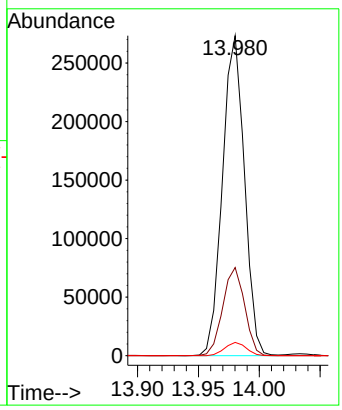


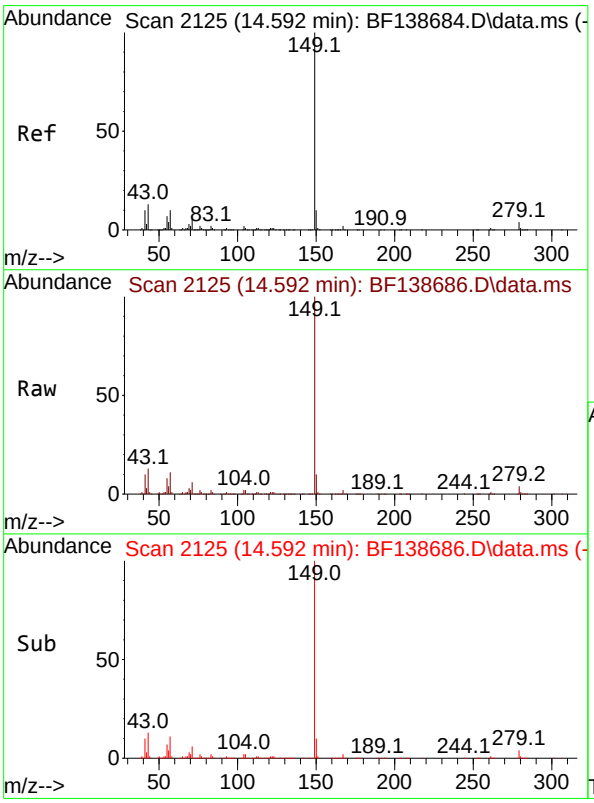

#84
Bis(2-ethylhexyl)phthalate
Concen: 57.526 ng
RT: 13.980 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:149 Resp: 343468

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 27.6 | 22.2 | 33.4 |
| 279 | 4.2 | 3.4 | 5.0 |

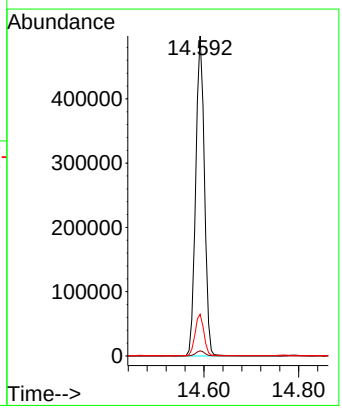


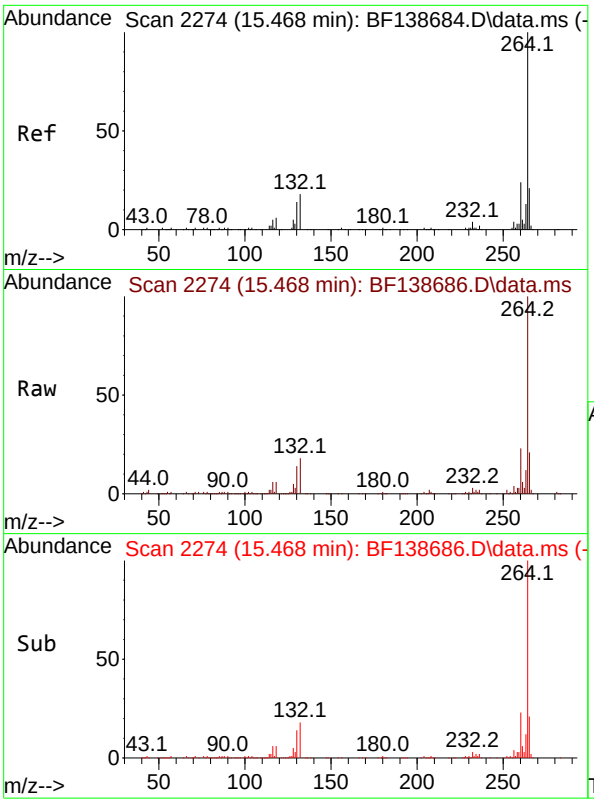




#85
Di-n-octyl phthalate
Concen: 57.670 ng
RT: 14.592 min Scan# 2125
Delta R.T. -0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:149 Resp: 637055

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 1.6 | 1.4 | 2.0 |
| 43 | 13.1 | 10.4 | 15.6 |



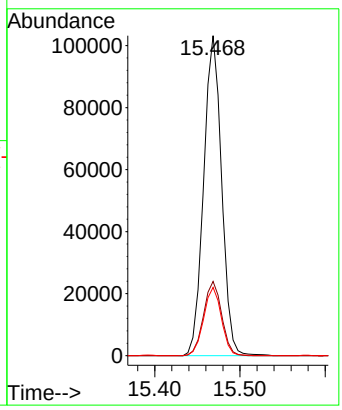


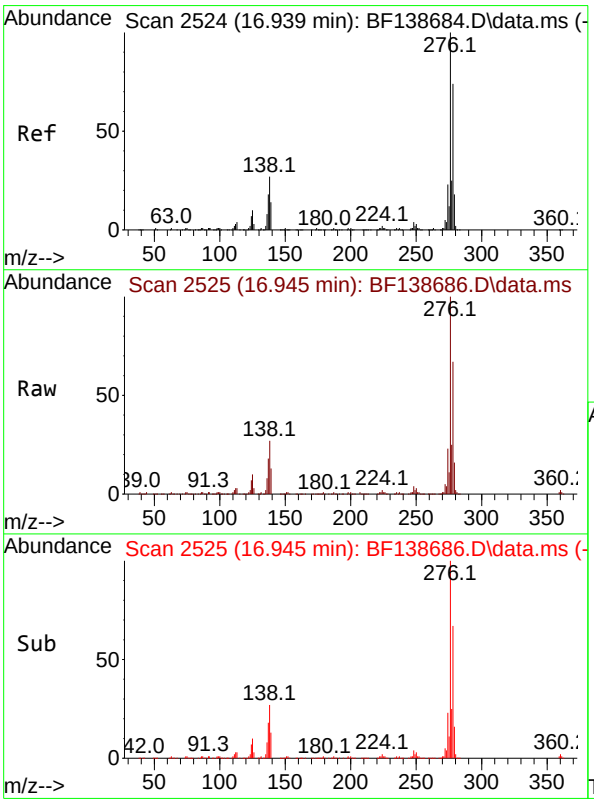

#86
Perylene-d12
Concen: 20.000 ng
RT: 15.468 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:264 Resp: 151051

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.2 | 19.0 | 28.6 |
| 265 | 21.3 | 17.0 | 25.6 |

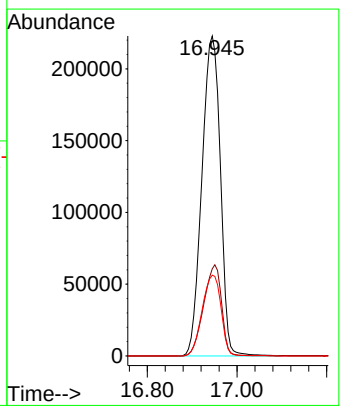


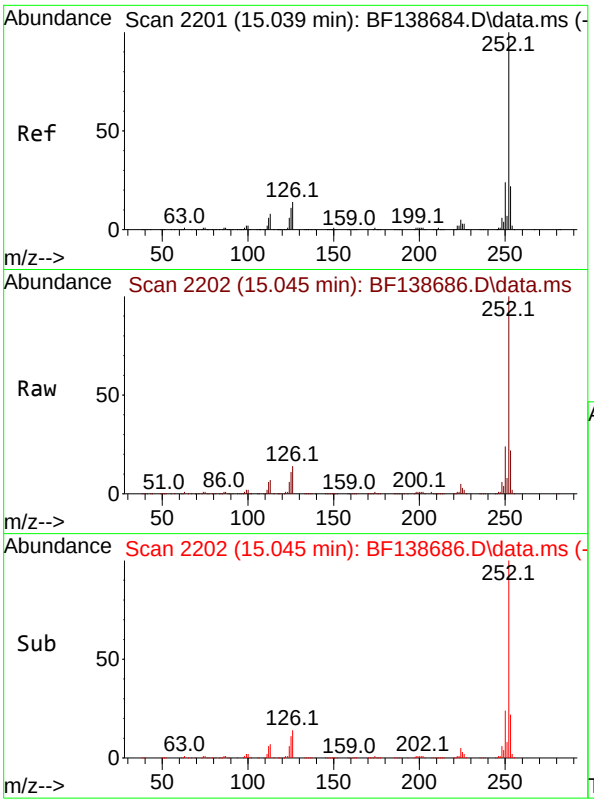




#87
Indeno(1,2,3-cd)pyrene
Concen: 58.833 ng
RT: 16.945 min Scan# 2525
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:276 Resp: 636857

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 27.6 | 21.8 | 32.8 |
| 277 | 25.8 | 20.6 | 30.8 |



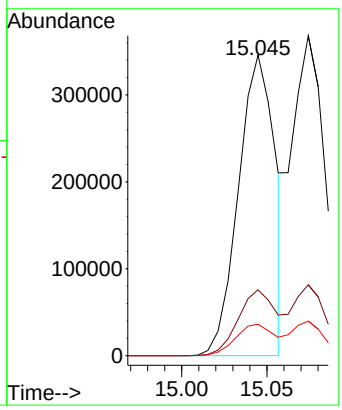


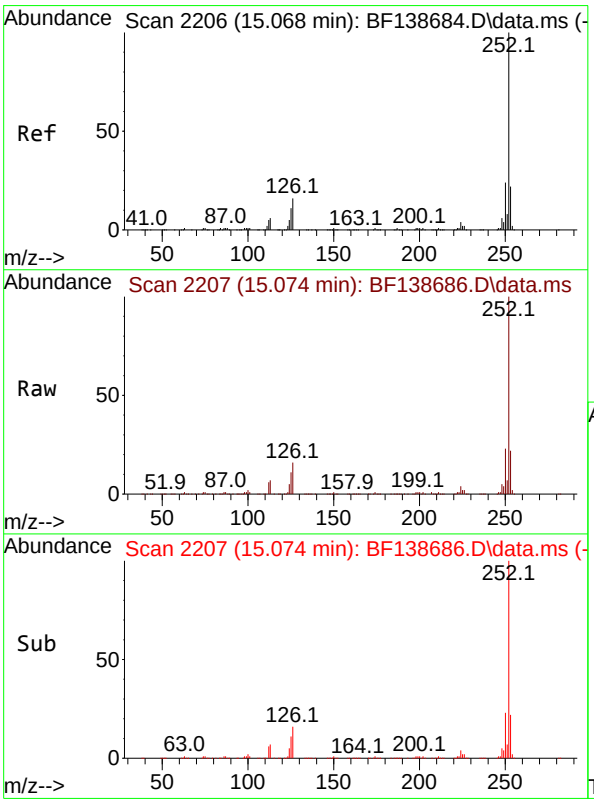

#88
Benzo(b)fluoranthene
Concen: 54.916 ng
RT: 15.045 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:252 Resp: 514218

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.9 | 17.5 | 26.3 |
| 125 | 10.5 | 8.9 | 13.3 |

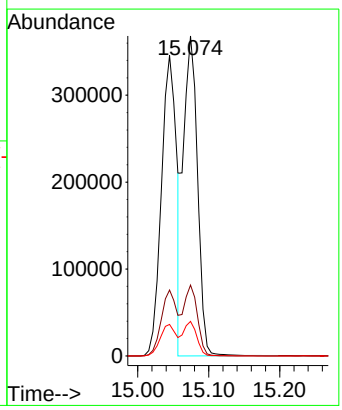


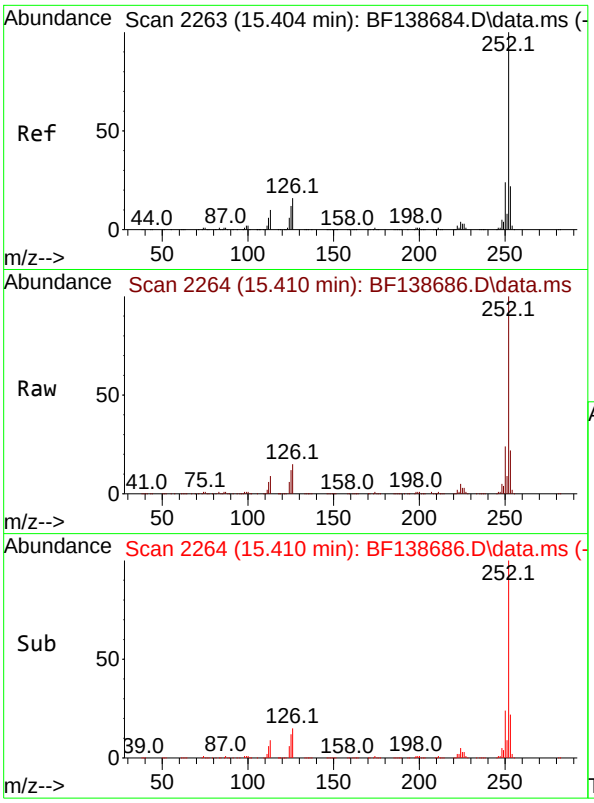




#89
Benzo(k)fluoranthene
Concen: 62.431 ng
RT: 15.074 min Scan# 2207
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:252 Resp: 506146

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.2 | 17.4 | 26.0 |
| 125 | 10.8 | 8.6 | 13.0 |



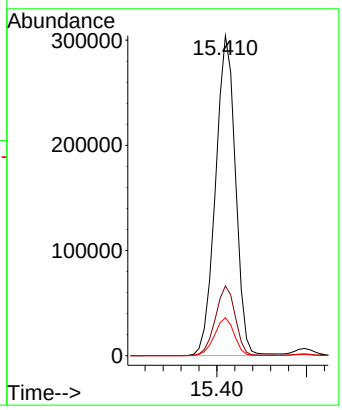


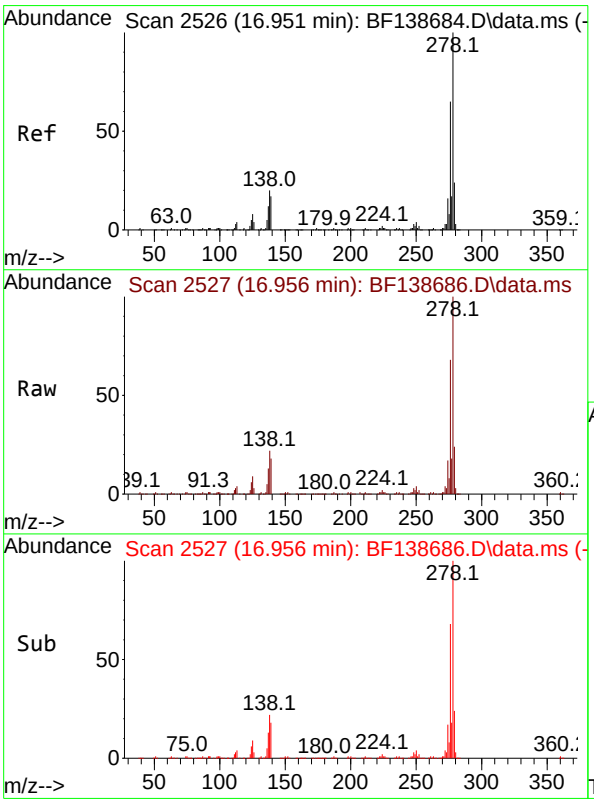

#90
Benzo(a)pyrene
Concen: 59.572 ng
RT: 15.410 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:252 Resp: 469205

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.8 | 17.3 | 25.9 |
| 125 | 11.9 | 9.5 | 14.3 |

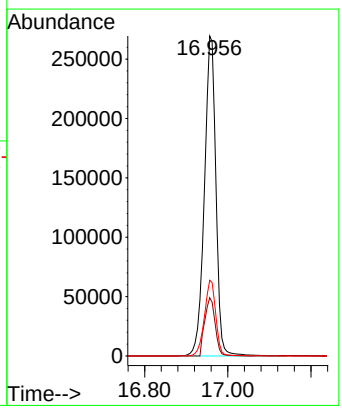


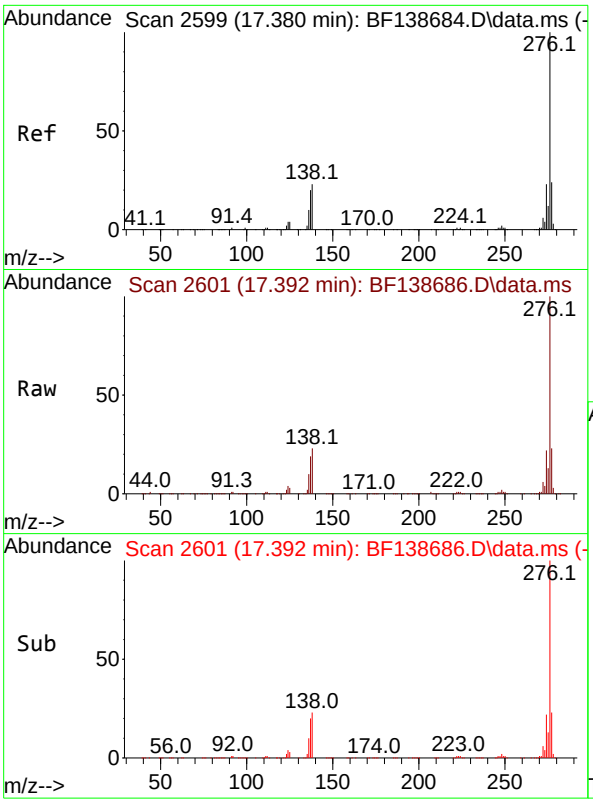




#91
Dibenzo(a,h)anthracene
Concen: 58.470 ng
RT: 16.956 min Scan# 2527
Delta R.T. 0.006 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

Tgt Ion:278 Resp: 519552

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 18.2 | 14.0 | 21.0 |
| 279 | 23.7 | 19.0 | 28.4 |



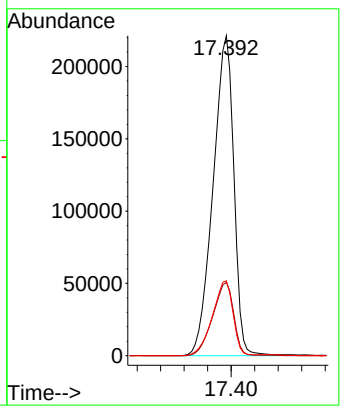



#92
Benzo(g,h,i)perylene
Concen: 58.883 ng
RT: 17.392 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF138686.D
Acq: 30 Jul 2024 15:58

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:276 Resp: 542952

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 23.0 | 19.0 | 28.4 |
| 138 | 23.4 | 18.5 | 27.7 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138687.D
Acq On : 30 Jul 2024 16:29
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

Quant Time: Jul 30 17:47:27 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:38:59 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.845 | 152 | 82334 | 20.000 | ng | | 0.00 |
| 21) Naphthalene-d8 | 8.134 | 136 | 318281 | 20.000 | ng | | 0.00 |
| 39) Acenaphthene-d10 | 9.886 | 164 | 170513 | 20.000 | ng | | 0.00 |
| 64) Phenanthrene-d10 | 11.369 | 188 | 270140 | 20.000 | ng | | 0.00 |
| 76) Chrysene-d12 | 14.010 | 240 | 127279 | 20.000 | ng | | 0.00 |
| 86) Perylene-d12 | 15.468 | 264 | 150274 | 20.000 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 5) 2-Fluorophenol | 5.475 | 112 | 779516 | 146.149 | ng | | 0.00 |
| 7) Phenol-d6 | 6.498 | 99 | 1037275 | 144.849 | ng | | 0.01 |
| 23) Nitrobenzene-d5 | 7.422 | 82 | 999276 | 153.499 | ng | | 0.01 |
| 42) 2,4,6-Tribromophenol | 10.681 | 330 | 215316 | 154.157 | ng | | 0.01 |
| 45) 2-Fluorobiphenyl | 9.210 | 172 | 1598378 | 140.843 | ng | | 0.00 |
| 79) Terphenyl-d14 | 12.951 | 244 | 1102959 | 145.087 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.599 | 88 | 179012 | 76.661 | ng | | 99 |
| 3) Pyridine | 3.357 | 79 | 430656 | 76.132 | ng | | 98 |
| 4) n-Nitrosodimethylamine | 3.334 | 42 | 264606 | 78.541 | ng | | 100 |
| 6) Aniline | 6.522 | 93 | 452908 | 70.918 | ng | # | 81 |
| 8) 2-Chlorophenol | 6.640 | 128 | 412290 | 73.470 | ng | | 99 |
| 10) Phenol | 6.510 | 94 | 548122 | 72.698 | ng | | 91 |
| 11) bis(2-Chloroethyl)ether | 6.593 | 93 | 439507 | 75.750 | ng | | 99 |
| 12) 1,3-Dichlorobenzene | 6.793 | 146 | 457584 | 72.845 | ng | | 100 |
| 13) 1,4-Dichlorobenzene | 6.869 | 146 | 463447 | 73.107 | ng | | 99 |
| 14) 1,2-Dichlorobenzene | 7.022 | 146 | 422717 | 71.351 | ng | | 100 |
| 15) Benzyl Alcohol | 6.998 | 79 | 379102 | 73.451 | ng | | 99 |
| 16) 2,2'-oxybis(1-Chloropr... | 7.128 | 45 | 704056 | 70.510 | ng | | 91 |
| 17) 2-Methylphenol | 7.110 | 107 | 344171 | 74.274 | ng | | 97 |
| 18) Hexachloroethane | 7.357 | 117 | 177915 | 74.559 | ng | | 96 |
| 19) n-Nitroso-di-n-propyla... | 7.275 | 70 | 319414 | 73.850 | ng | | 96 |
| 20) 3+4-Methylphenols | 7.269 | 107 | 420506 | 70.728 | ng | # | 90 |
| 22) Acetophenone | 7.269 | 105 | 583306 | 74.849 | ng | | 98 |
| 24) Nitrobenzene | 7.440 | 77 | 510201 | 77.019 | ng | | 98 |
| 25) Isophorone | 7.681 | 82 | 862380 | 77.580 | ng | | 99 |
| 26) 2-Nitrophenol | 7.751 | 139 | 227531 | 79.835 | ng | | 99 |
| 27) 2,4-Dimethylphenol | 7.792 | 122 | 263469 | 77.265 | ng | | 99 |
| 28) bis(2-Chloroethoxy)met... | 7.881 | 93 | 522528 | 77.190 | ng | | 99 |
| 29) 2,4-Dichlorophenol | 7.998 | 162 | 336540 | 76.805 | ng | | 100 |
| 30) 1,2,4-Trichlorobenzene | 8.075 | 180 | 381296 | 75.405 | ng | | 99 |
| 31) Naphthalene | 8.157 | 128 | 1242069 | 74.139 | ng | | 100 |
| 32) Benzoic acid | 7.957 | 122 | 247058 | 92.209 | ng | | 97 |
| 33) 4-Chloroaniline | 8.216 | 127 | 443424 | 78.849 | ng | | 99 |
| 34) Hexachlorobutadiene | 8.263 | 225 | 230783 | 75.351 | ng | | 100 |
| 35) Caprolactam | 8.604 | 113 | 107916 | 82.539 | ng | | 97 |
| 36) 4-Chloro-3-methylphenol | 8.692 | 107 | 386382 | 77.158 | ng | | 99 |
| 37) 2-Methylnaphthalene | 8.839 | 142 | 782843 | 73.988 | ng | | 100 |
| 38) 1-Methylnaphthalene | 8.945 | 142 | 760272 | 73.328 | ng | | 99 |
| 40) 1,2,4,5-Tetrachloroben... | 9.010 | 216 | 351438 | 74.196 | ng | | 99 |
| 41) Hexachlorocyclopentadiene | 8.992 | 237 | 99926 | 79.729 | ng | | 98 |
| 43) 2,4,6-Trichlorophenol | 9.122 | 196 | 227901 | 78.913 | ng | | 100 |
| 44) 2,4,5-Trichlorophenol | 9.169 | 196 | 245697 | 77.822 | ng | | 98 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138687.D
Acq On : 30 Jul 2024 16:29
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

Quant Time: Jul 30 17:47:27 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:38:59 2024
Response via : Initial Calibration

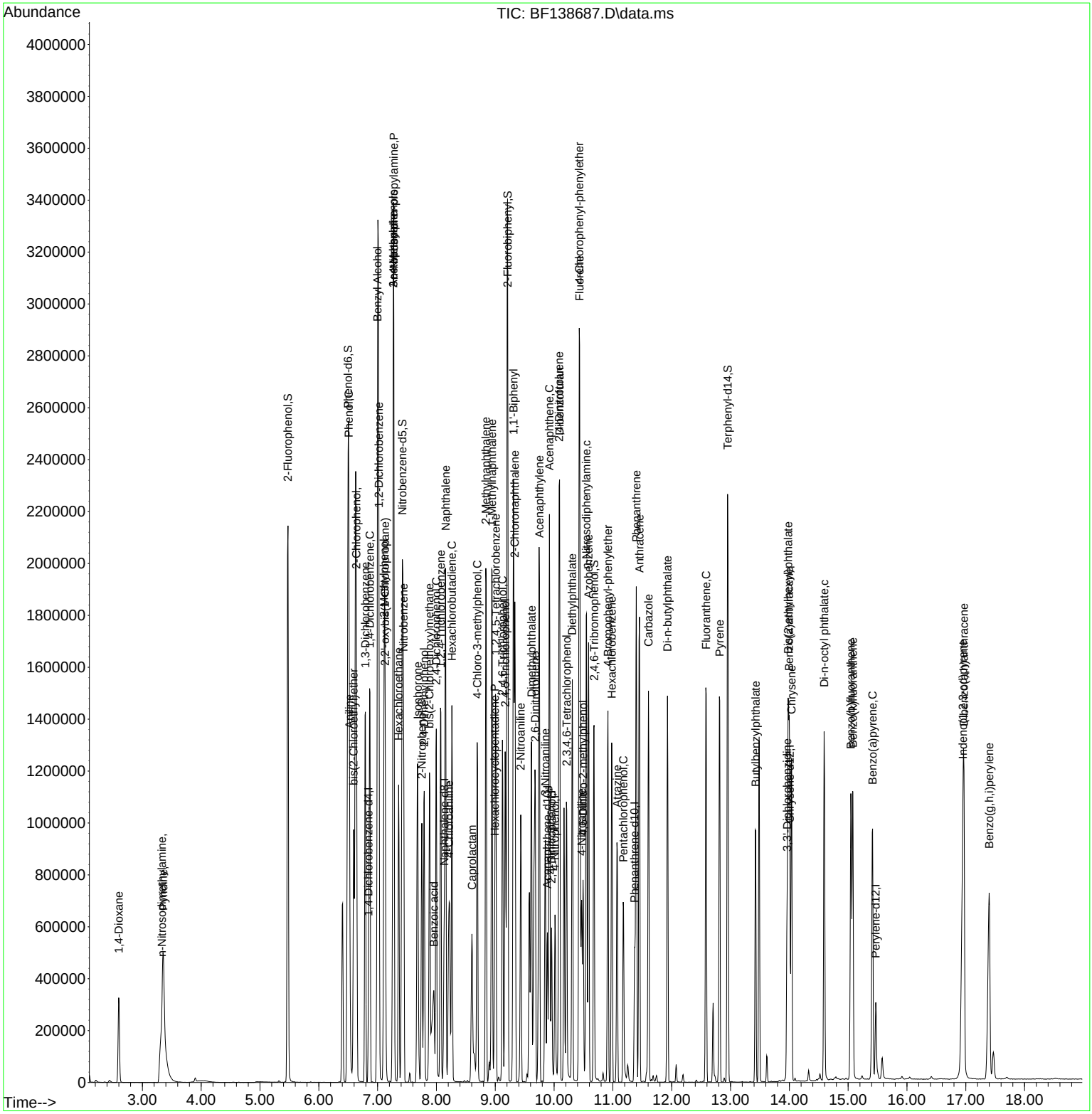
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) 1,1'-Biphenyl | 9.310 | 154 | 983564 | 73.651 | ng | | 100 |
| 47) 2-Chloronaphthalene | 9.334 | 162 | 742852 | 74.793 | ng | | 100 |
| 48) 2-Nitroaniline | 9.434 | 65 | 266220 | 79.066 | ng | | 98 |
| 49) Acenaphthylene | 9.751 | 152 | 1013441 | 71.944 | ng | | 99 |
| 50) Dimethylphthalate | 9.616 | 163 | 843645 | 77.379 | ng | | 99 |
| 51) 2,6-Dinitrotoluene | 9.681 | 165 | 189138 | 76.868 | ng | | 97 |
| 52) Acenaphthene | 9.922 | 154 | 693130 | 73.198 | ng | | 100 |
| 53) 3-Nitroaniline | 9.851 | 138 | 194796 | 76.581 | ng | | 100 |
| 54) 2,4-Dinitrophenol | 9.957 | 184 | 100793 | 88.986 | ng | | 94 |
| 55) Dibenzofuran | 10.092 | 168 | 963359 | 72.071 | ng | | 100 |
| 56) 4-Nitrophenol | 10.016 | 139 | 127589 | 83.411 | ng | | 98 |
| 57) 2,4-Dinitrotoluene | 10.086 | 165 | 237463 | 75.642 | ng | # | 88 |
| 58) Fluorene | 10.433 | 166 | 768404 | 72.188 | ng | | 99 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.216 | 232 | 192425 | 79.721 | ng | | 97 |
| 60) Diethylphthalate | 10.310 | 149 | 788464 | 76.270 | ng | | 99 |
| 61) 4-Chlorophenyl-phenyle... | 10.428 | 204 | 376130 | 71.847 | ng | | 99 |
| 62) 4-Nitroaniline | 10.469 | 138 | 181845 | 75.227 | ng | | 98 |
| 63) Azobenzene | 10.586 | 77 | 857699 | 74.806 | ng | | 99 |
| 65) 4,6-Dinitro-2-methylph... | 10.492 | 198 | 137397 | 83.368 | ng | | 97 |
| 66) n-Nitrosodiphenylamine | 10.551 | 169 | 641930 | 76.022 | ng | | 99 |
| 67) 4-Bromophenyl-phenylether | 10.916 | 248 | 226137 | 77.318 | ng | | 99 |
| 68) Hexachlorobenzene | 10.980 | 284 | 233005 | 77.158 | ng | | 99 |
| 69) Atrazine | 11.075 | 200 | 152765 | 70.122 | ng | | 99 |
| 70) Pentachlorophenol | 11.180 | 266 | 120403 | 88.455 | ng | | 98 |
| 71) Phenanthrene | 11.398 | 178 | 1020185 | 73.341 | ng | | 99 |
| 72) Anthracene | 11.451 | 178 | 1005219 | 73.356 | ng | | 100 |
| 73) Carbazole | 11.604 | 167 | 836447 | 70.750 | ng | | 99 |
| 74) Di-n-butylphthalate | 11.927 | 149 | 1016790 | 76.505 | ng | | 100 |
| 75) Fluoranthene | 12.586 | 202 | 893988 | 68.843 | ng | | 99 |
| 78) Pyrene | 12.816 | 202 | 882216 | 73.618 | ng | | 99 |
| 80) Butylbenzylphthalate | 13.427 | 149 | 304470 | 79.340 | ng | | 99 |
| 81) Benzo(a)anthracene | 13.998 | 228 | 659091 | 75.198 | ng | | 99 |
| 82) 3,3'-Dichlorobenzidine | 13.963 | 252 | 159678 | 71.192 | ng | | 99 |
| 83) Chrysene | 14.039 | 228 | 617804 | 78.129 | ng | | 98 |
| 84) Bis(2-ethylhexyl)phtha... | 13.980 | 149 | 440693 | 78.423 | ng | | 100 |
| 85) Di-n-octyl phthalate | 14.592 | 149 | 817161 | 78.597 | ng | | 99 |
| 87) Indeno(1,2,3-cd)pyrene | 16.951 | 276 | 827423 | 76.833 | ng | | 99 |
| 88) Benzo(b)fluoranthene | 15.045 | 252 | 721224 | 77.422 | ng | | 99 |
| 89) Benzo(k)fluoranthene | 15.080 | 252 | 596517 | 73.959 | ng | | 99 |
| 90) Benzo(a)pyrene | 15.416 | 252 | 609452 | 77.779 | ng | | 99 |
| 91) Dibenzo(a,h)anthracene | 16.968 | 278 | 664634 | 75.184 | ng | | 100 |
| 92) Benzo(g,h,i)perylene | 17.398 | 276 | 702583 | 76.589 | ng | | 99 |

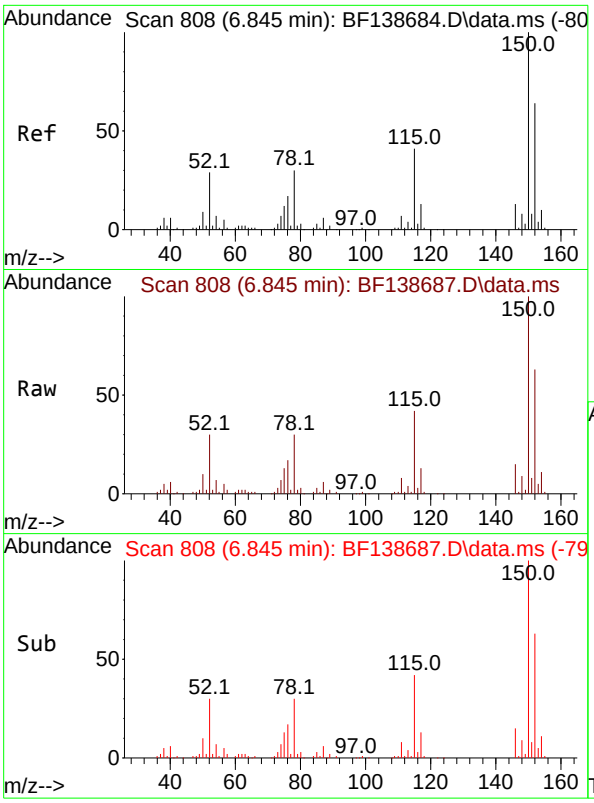
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138687.D
Acq On : 30 Jul 2024 16:29
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

Quant Time: Jul 30 17:47:27 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:38:59 2024
Response via : Initial Calibration



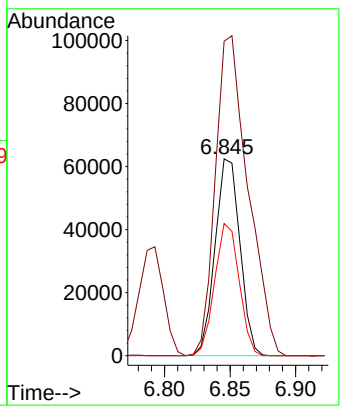


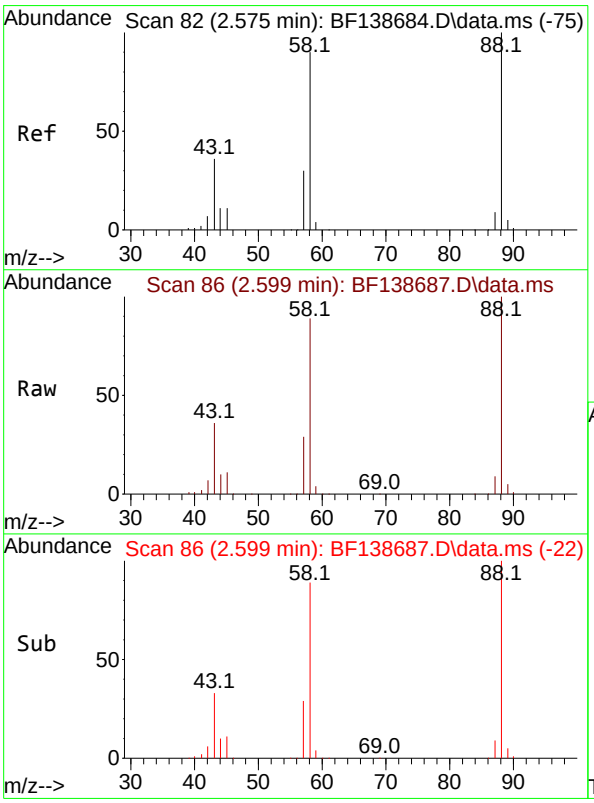

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.845 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

Tgt Ion:152 Resp: 82334

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 159.8 | 126.0 | 189.0 |
| 115 | 67.1 | 51.7 | 77.5 |

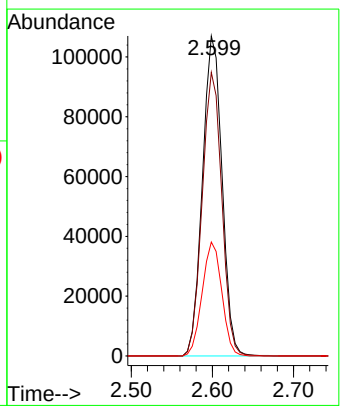


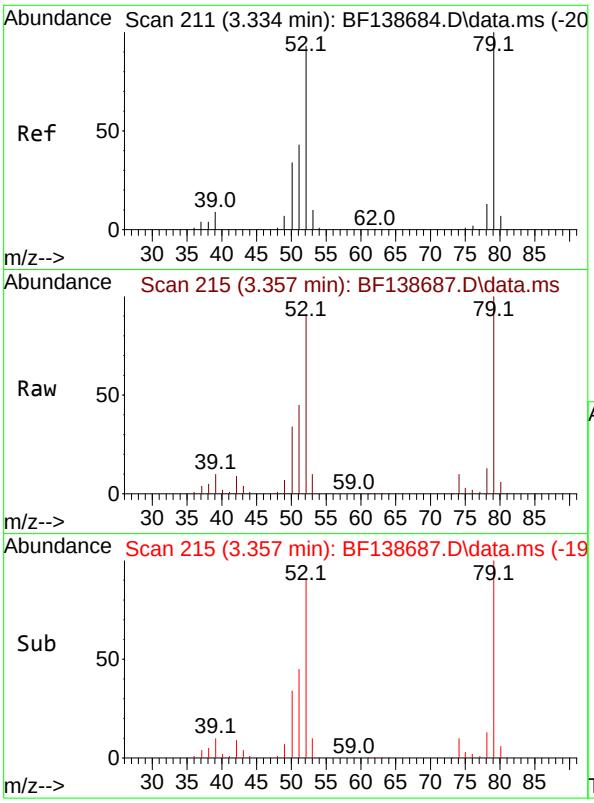




#2
1,4-Dioxane
Concen: 76.661 ng
RT: 2.599 min Scan# 86
Delta R.T. 0.024 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion: 88 Resp: 179012

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 88.5 | 71.6 | 107.4 |
| 43 | 35.7 | 28.7 | 43.1 |



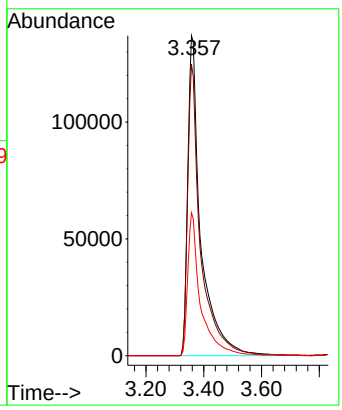


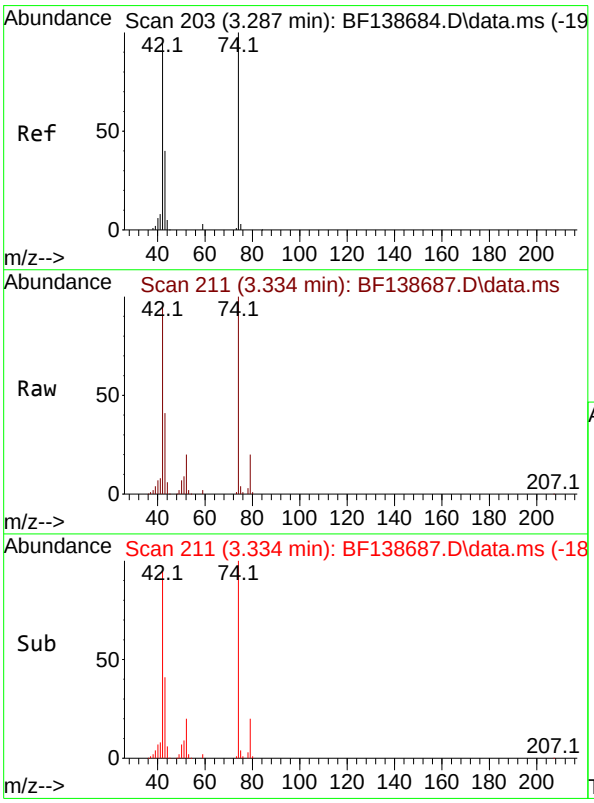

#3
Pyridine
Concen: 76.132 ng
RT: 3.357 min Scan# 21
Delta R.T. 0.024 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

Tgt Ion: 79 Resp: 430656

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 91.0 | 74.7 | 112.1 |
| 51 | 44.7 | 34.6 | 51.8 |

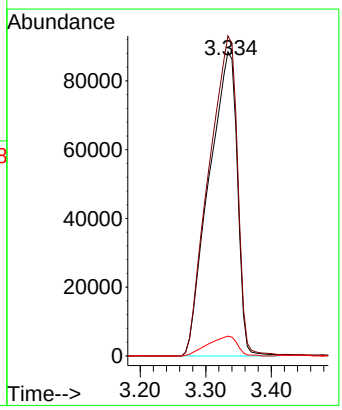


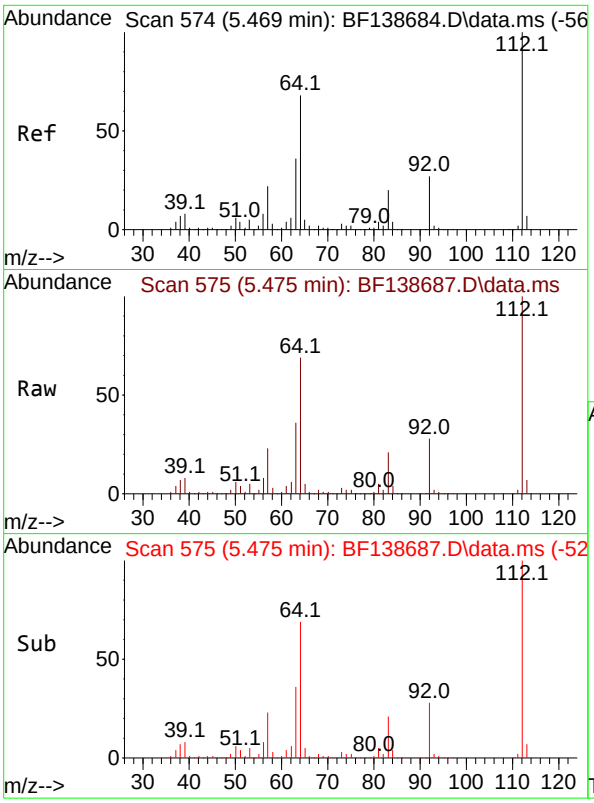




#4
n-Nitrosodimethylamine
Concen: 78.541 ng
RT: 3.334 min Scan# 211
Delta R.T. 0.047 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion: 42 Resp: 264606

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 105.2 | 84.2 | 126.4 |
| 44 | 6.5 | 4.9 | 7.3 |



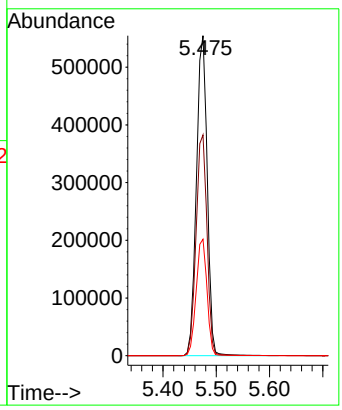


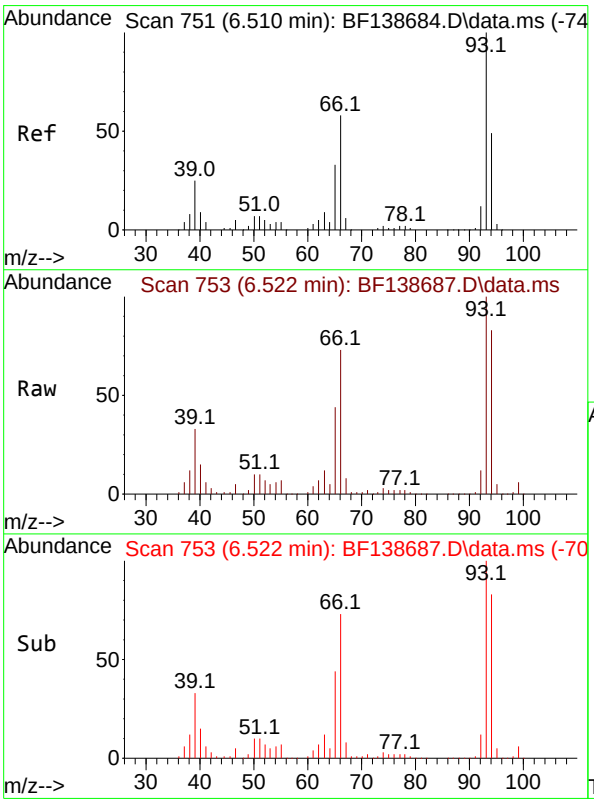

#5
2-Fluorophenol
Concen: 146.149 ng
RT: 5.475 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

Tgt Ion:112 Resp: 779516

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 69.0 | 54.2 | 81.4 |
| 63 | 36.4 | 28.7 | 43.1 |

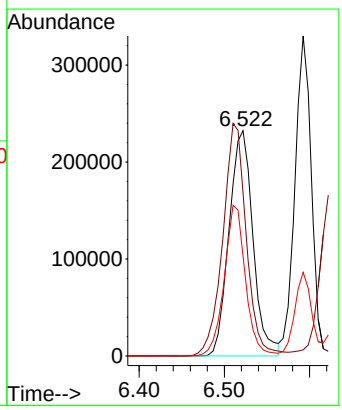


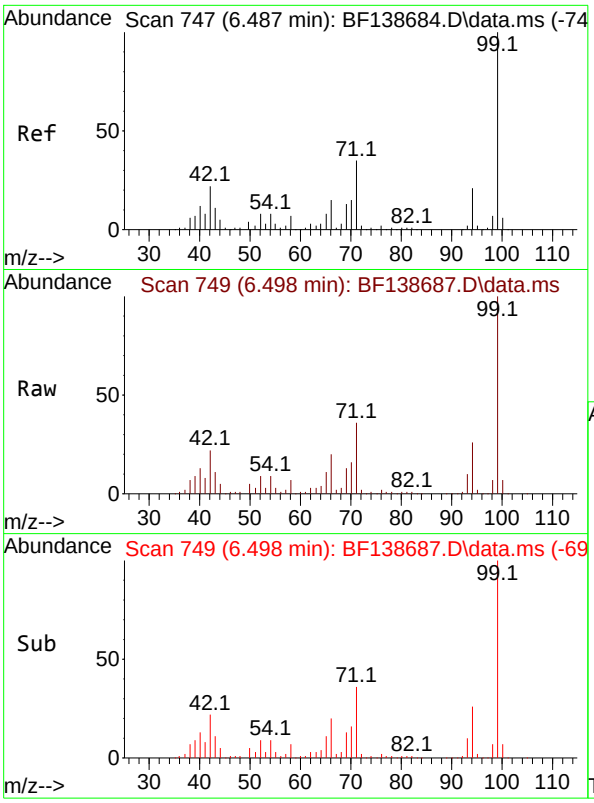




#6
Aniline
Concen: 70.918 ng
RT: 6.522 min Scan# 753
Delta R.T. 0.012 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion: 93 Resp: 452908

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 66 | 72.6 | 46.9 | 70.3# |
| 65 | 44.4 | 26.5 | 39.7# |



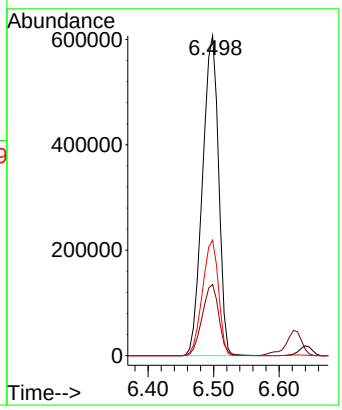


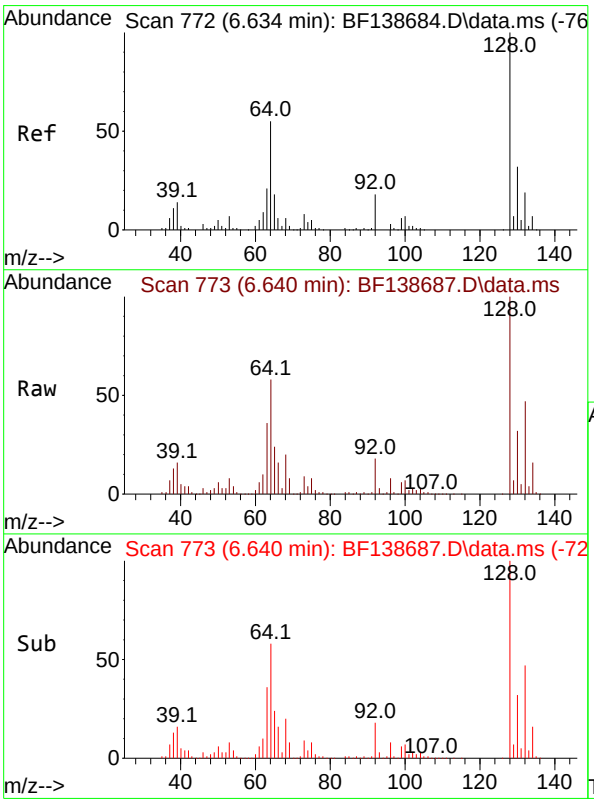

#7
Phenol-d6
Concen: 144.849 ng
RT: 6.498 min Scan# 7
Delta R.T. 0.012 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

Tgt Ion: 99 Resp: 1037275

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 22.3 | 17.4 | 26.0 |
| 71 | 36.1 | 28.1 | 42.1 |

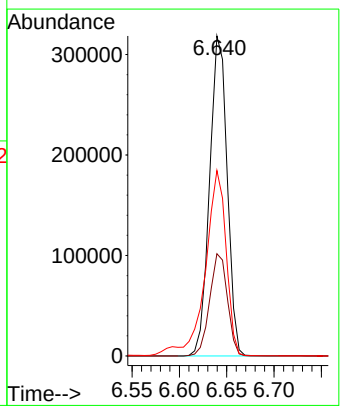


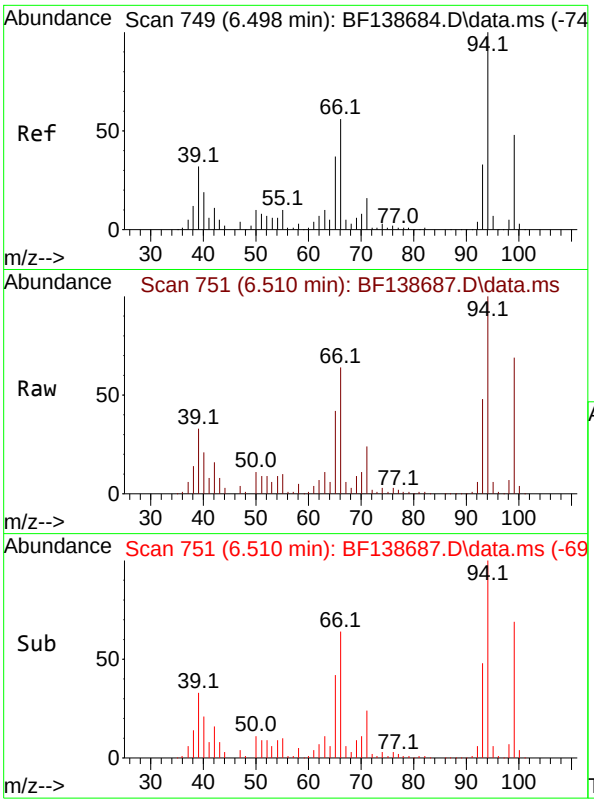




#8
2-Chlorophenol
Concen: 73.470 ng
RT: 6.640 min Scan# 773
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:128 Resp: 412290

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 130 | 31.9 | 12.0 | 52.0 |
| 64 | 57.9 | 36.3 | 76.3 |



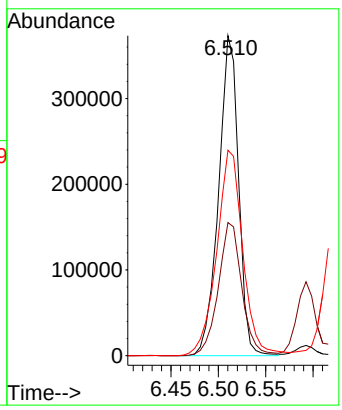


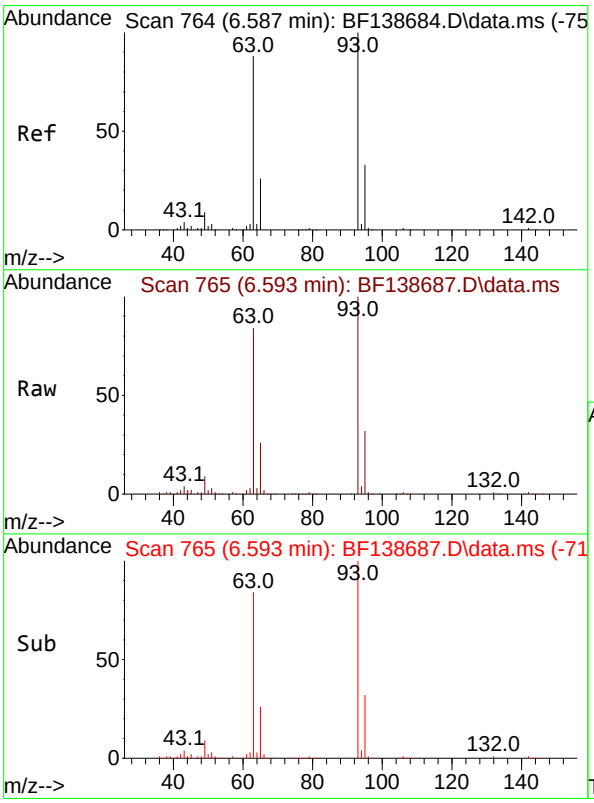

#10
Phenol
Concen: 72.698 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.012 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

Tgt Ion: 94 Resp: 548122

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 41.6 | 16.9 | 56.9 |
| 66 | 64.2 | 36.5 | 76.5 |

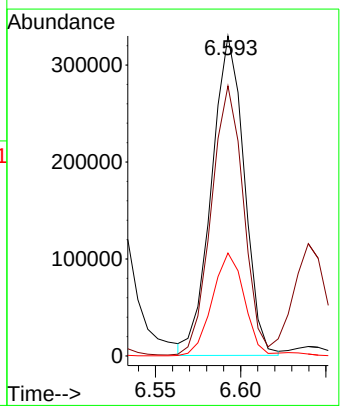


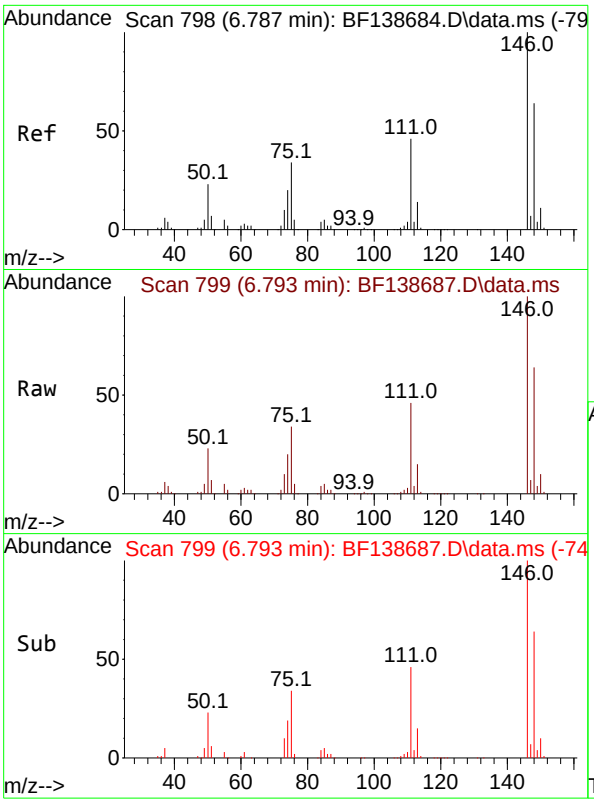




#11
bis(2-Chloroethyl)ether
Concen: 75.750 ng
RT: 6.593 min Scan# 765
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion: 93 Resp: 439507

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 84.4 | 65.3 | 105.3 |
| 95 | 32.1 | 12.4 | 52.4 |



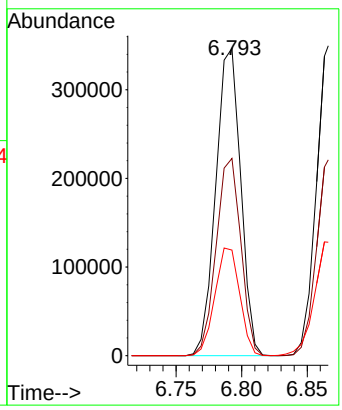


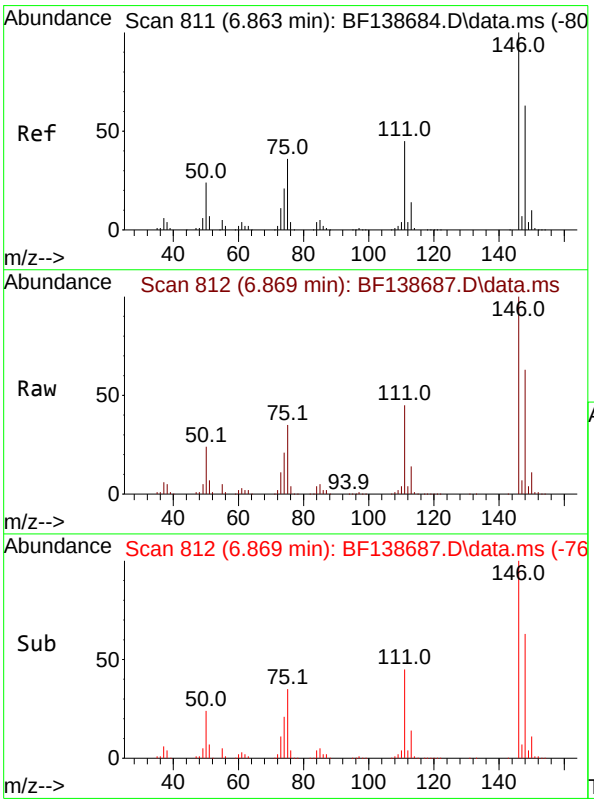

#12
1,3-Dichlorobenzene
Concen: 72.845 ng
RT: 6.793 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

Tgt Ion:146 Resp: 457584

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 64.2 | 51.2 | 76.8 |
| 75 | 34.4 | 27.4 | 41.2 |

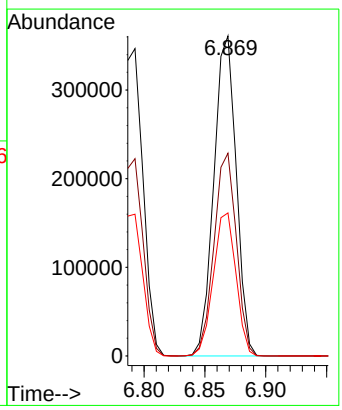


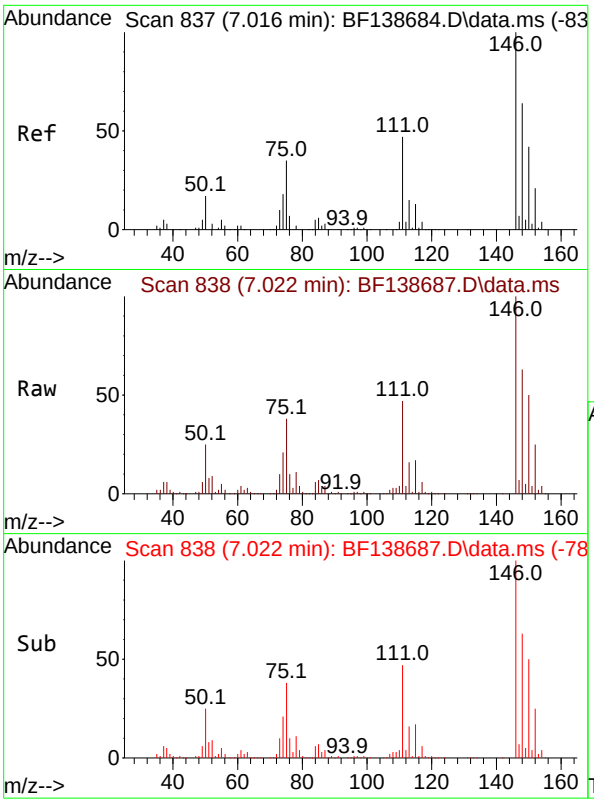




#13
1,4-Dichlorobenzene
Concen: 73.107 ng
RT: 6.869 min Scan# 812
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:146 Resp: 463447

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 63.4 | 50.2 | 75.2 |
| 111 | 44.7 | 35.9 | 53.9 |



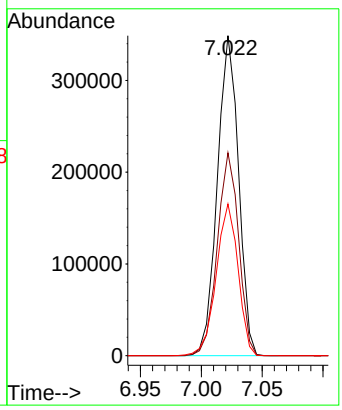


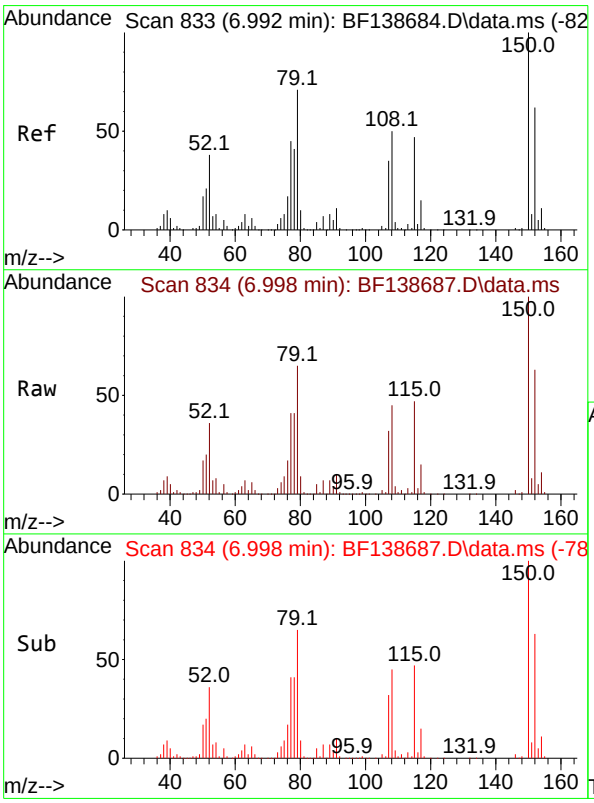

#14
1,2-Dichlorobenzene
Concen: 71.351 ng
RT: 7.022 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

Tgt Ion:146 Resp: 422717

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 63.4 | 50.8 | 76.2 |
| 111 | 47.4 | 37.4 | 56.2 |

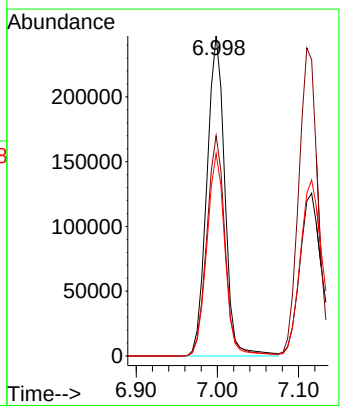


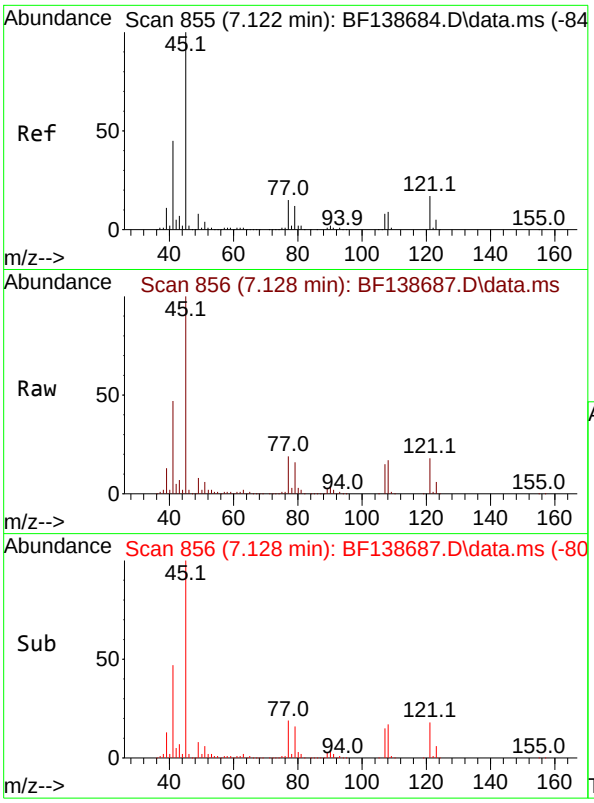




#15
Benzyl Alcohol
Concen: 73.451 ng
RT: 6.998 min Scan# 834
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion: 79 Resp: 379102

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 108 | 68.9 | 56.6 | 85.0 |
| 77 | 63.2 | 50.3 | 75.5 |



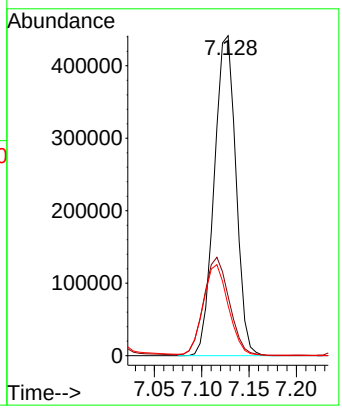


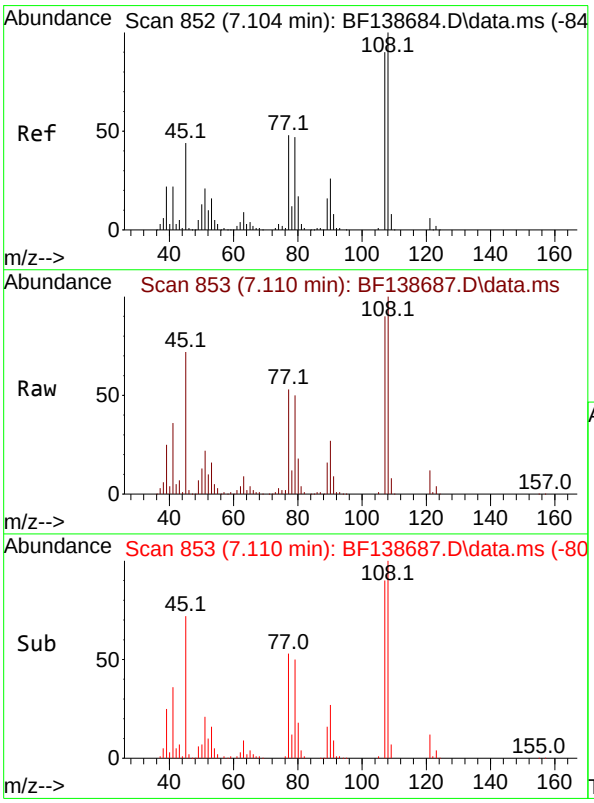

#16
2,2'-oxybis(1-Chloropropane)
Concen: 70.510 ng
RT: 7.128 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

Tgt Ion: 45 Resp: 704056

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 77 | 18.5 | 0.0 | 34.9 |
| 79 | 15.7 | 0.0 | 32.2 |

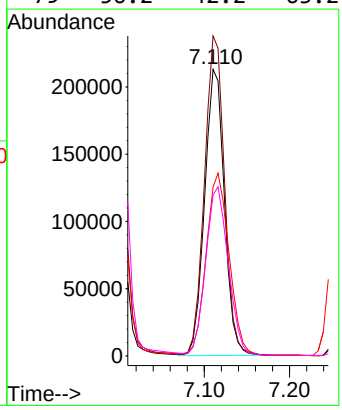


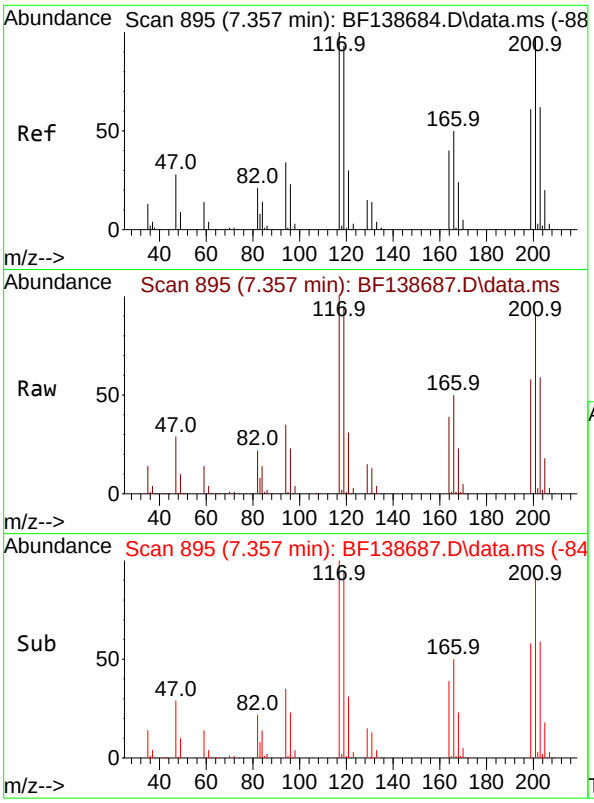




#17
2-Methylphenol
Concen: 74.274 ng
RT: 7.110 min Scan# 853
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:107 Resp: 344171

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 111.7 | 89.2 | 133.8 |
| 77 | 59.0 | 43.0 | 64.4 |
| 79 | 56.2 | 42.2 | 63.2 |



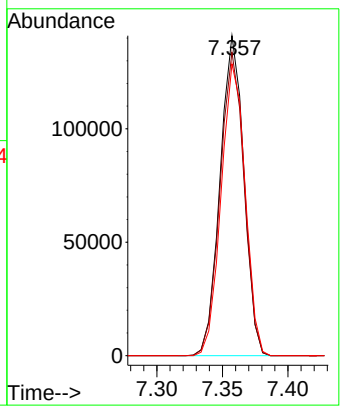


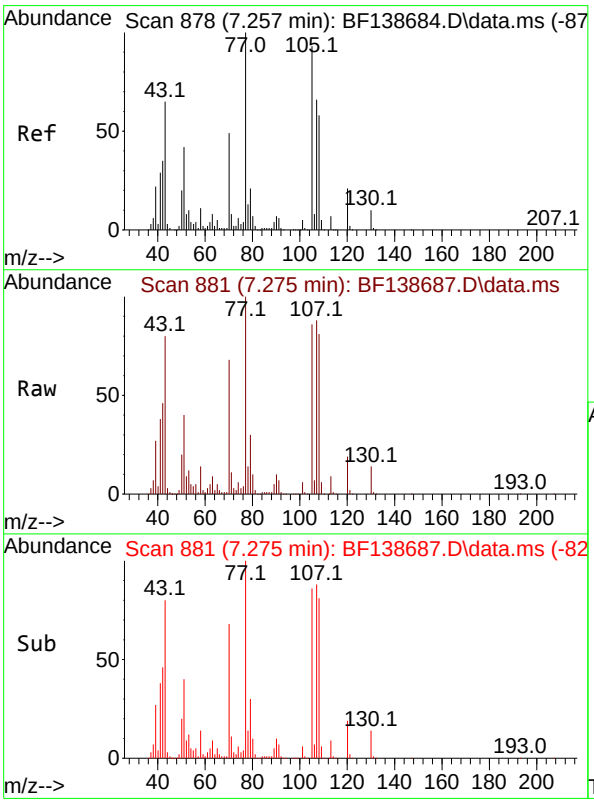

#18
Hexachloroethane
Concen: 74.559 ng
RT: 7.357 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

Tgt Ion:117 Resp: 177915

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 94.8 | 74.6 | 111.8 |
| 201 | 91.2 | 77.2 | 115.8 |

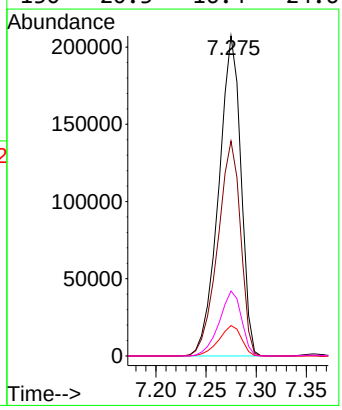


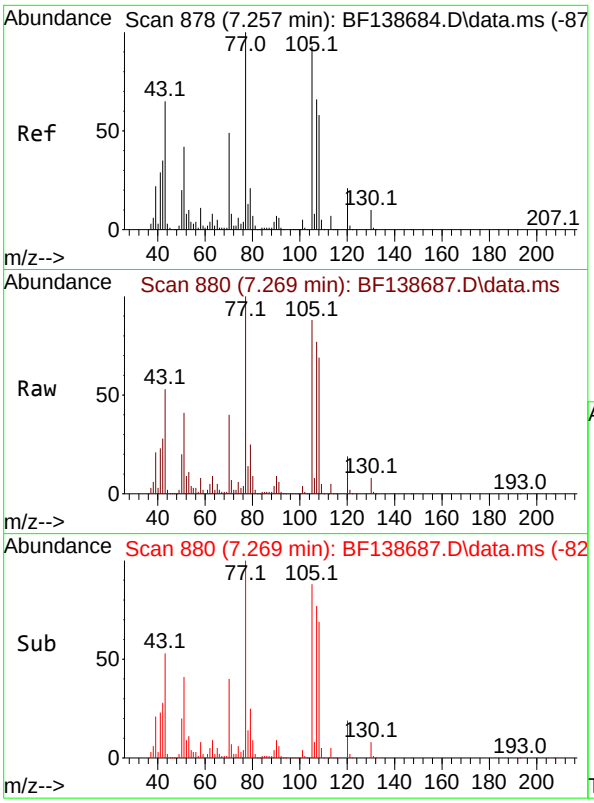




#19
n-Nitroso-di-n-propylamine
Concen: 73.850 ng
RT: 7.275 min Scan# 881
Delta R.T. 0.018 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion: 70 Resp: 319414

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 42 | 67.1 | 57.4 | 86.0 |
| 101 | 9.5 | 7.5 | 11.3 |
| 130 | 20.3 | 16.4 | 24.6 |



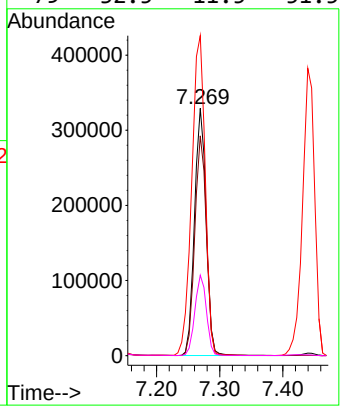


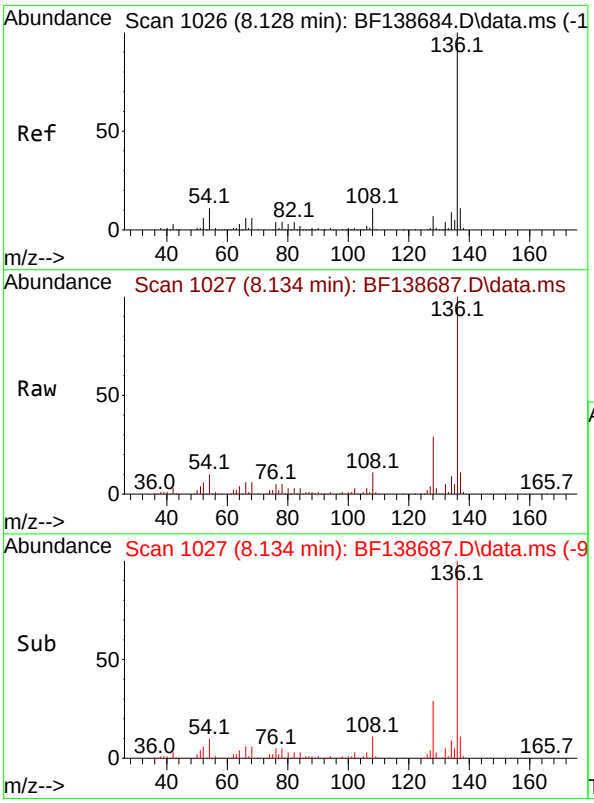

#20
3+4-Methylphenols
Concen: 70.728 ng
RT: 7.269 min Scan# 8
Delta R.T. 0.012 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

Tgt Ion:107 Resp: 420506

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 88.9 | 68.2 | 108.2 |
| 77 | 129.4 | 132.1 | 172.1# |
| 79 | 32.5 | 11.5 | 51.5 |

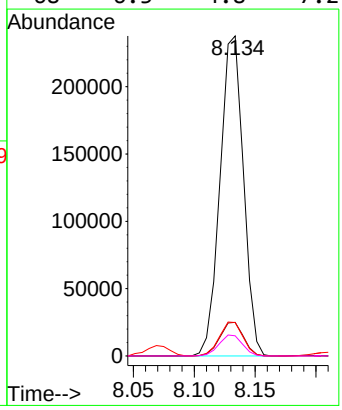


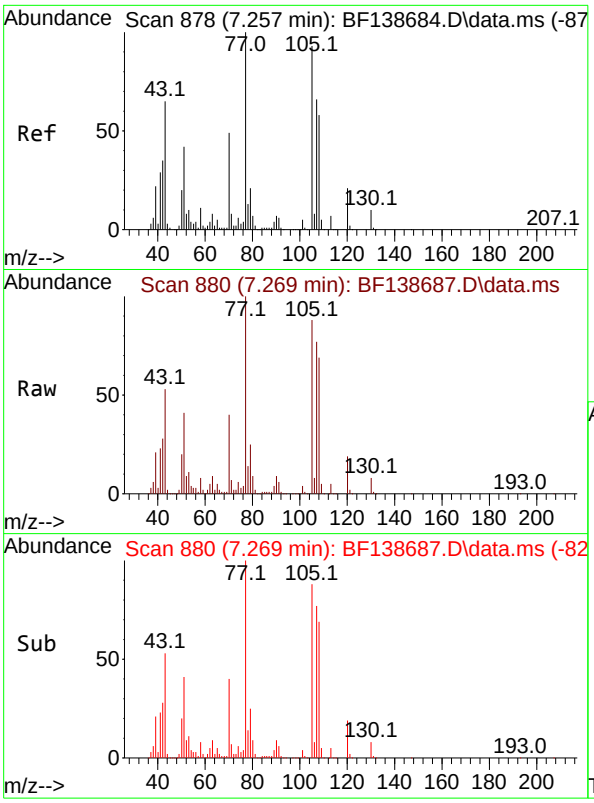




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.134 min Scan# 1027
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:136 Resp: 318281

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.5 | 8.9 | 13.3 |
| 54 | 10.4 | 8.6 | 12.8 |
| 68 | 6.3 | 4.8 | 7.2 |



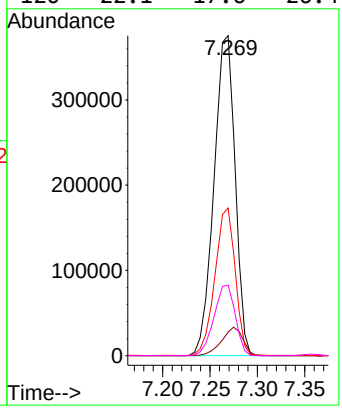


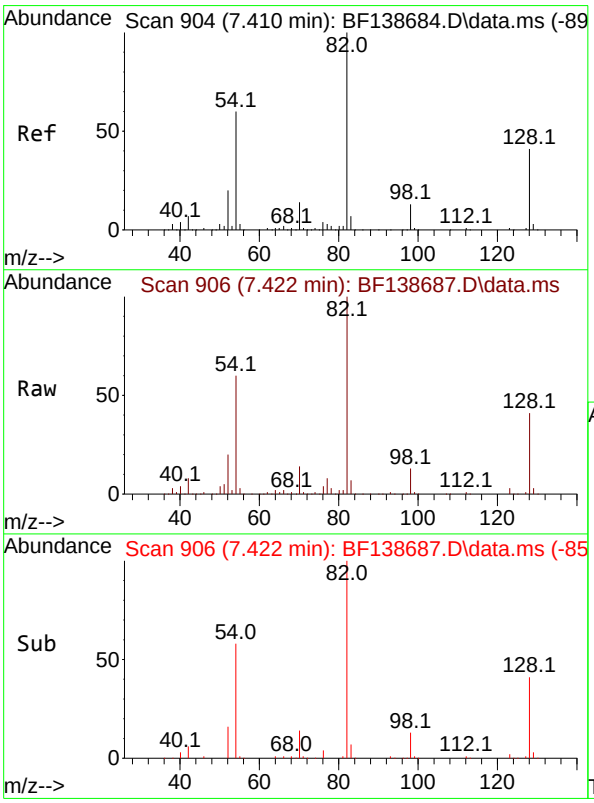

#22
Acetophenone
Concen: 74.849 ng
RT: 7.269 min Scan# 8
Delta R.T. 0.012 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

Tgt Ion:105 Resp: 583306

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 71 | 7.4 | 7.2 | 10.8 |
| 51 | 46.1 | 35.9 | 53.9 |
| 120 | 22.1 | 17.6 | 26.4 |

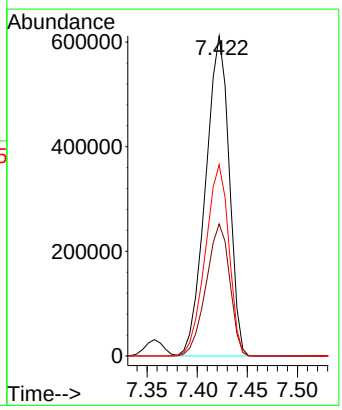


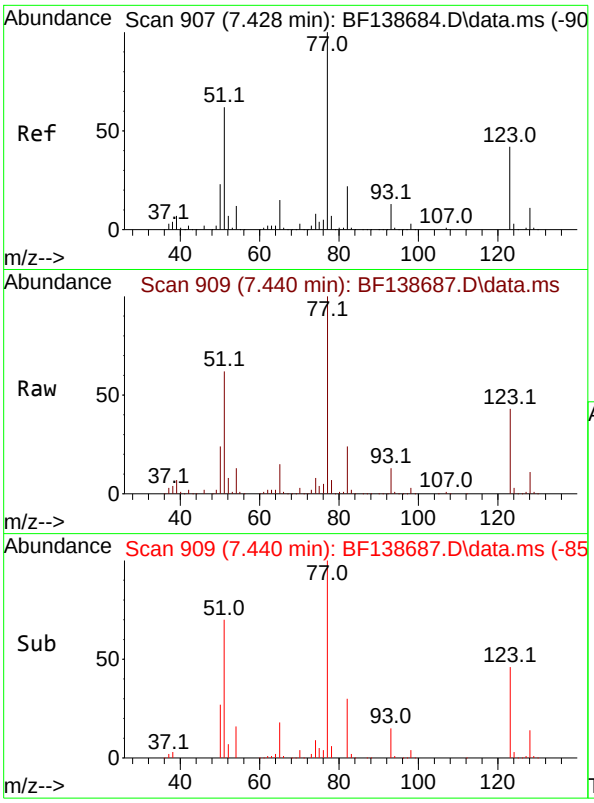




#23
Nitrobenzene-d5
Concen: 153.499 ng
RT: 7.422 min Scan# 906
Delta R.T. 0.012 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion: 82 Resp: 999276

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 41.3 | 32.8 | 49.2 |
| 54 | 59.8 | 48.3 | 72.5 |



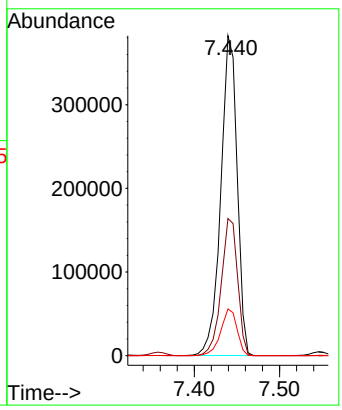


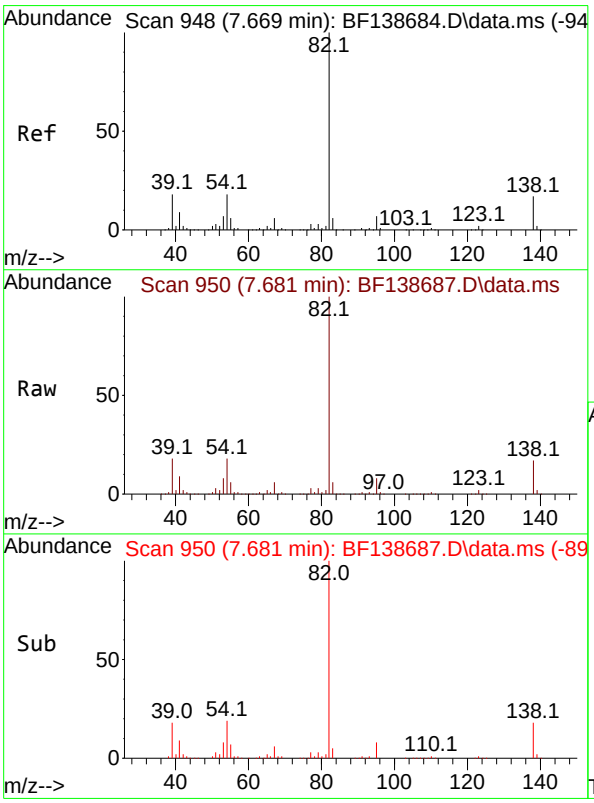

#24
Nitrobenzene
Concen: 77.019 ng
RT: 7.440 min Scan# 9
Delta R.T. 0.012 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

Tgt Ion: 77 Resp: 510201

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 123 | 42.8 | 33.3 | 49.9 |
| 65 | 14.6 | 11.9 | 17.9 |

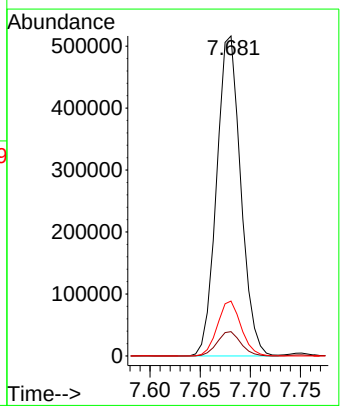


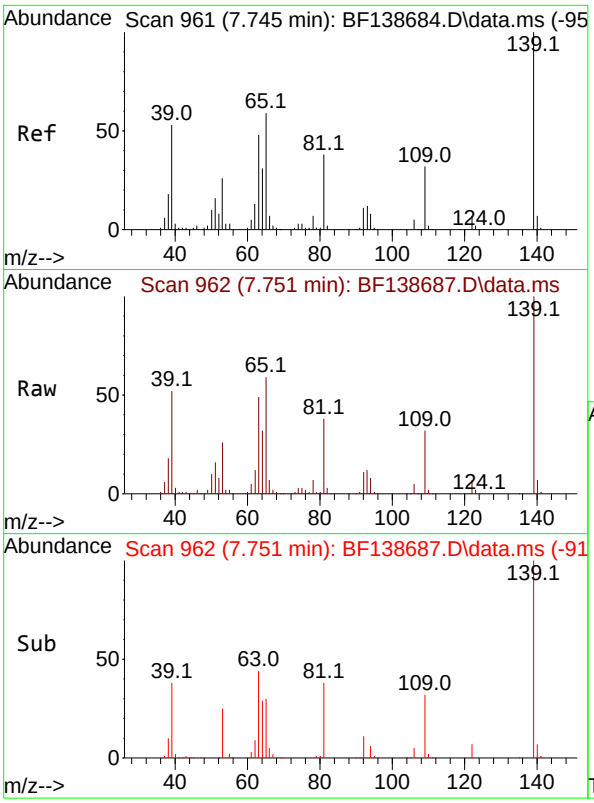




#25
Isophorone
Concen: 77.580 ng
RT: 7.681 min Scan# 950
Delta R.T. 0.012 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion: 82 Resp: 862380

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 95 | 7.6 | 5.7 | 8.5 |
| 138 | 17.2 | 13.7 | 20.5 |



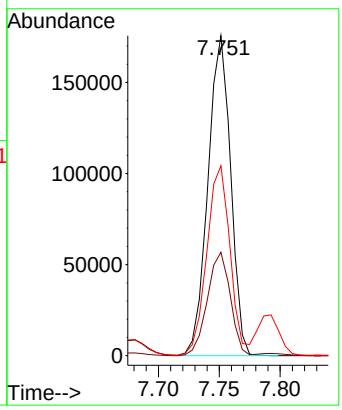


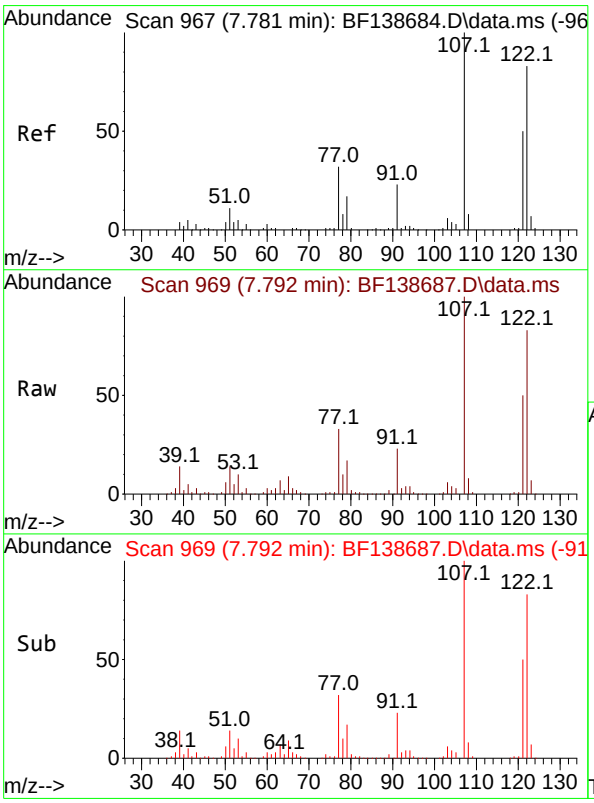

#26
2-Nitrophenol
Concen: 79.835 ng
RT: 7.751 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

Tgt Ion:139 Resp: 227531

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 32.3 | 25.9 | 38.9 |
| 65 | 59.3 | 47.0 | 70.6 |

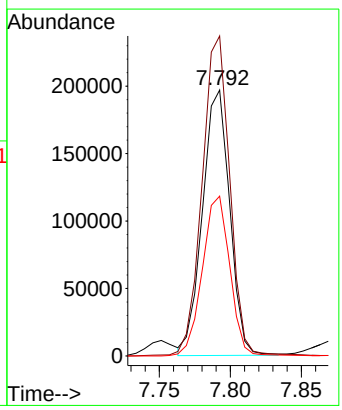


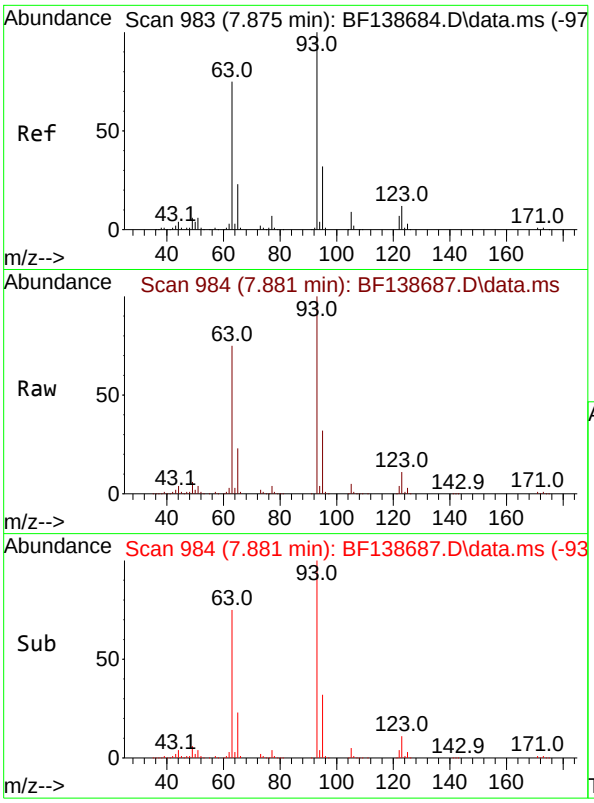




#27
2,4-Dimethylphenol
Concen: 77.265 ng
RT: 7.792 min Scan# 969
Delta R.T. 0.012 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:122 Resp: 263469

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 107 | 120.4 | 95.0 | 142.6 |
| 121 | 60.1 | 47.3 | 70.9 |



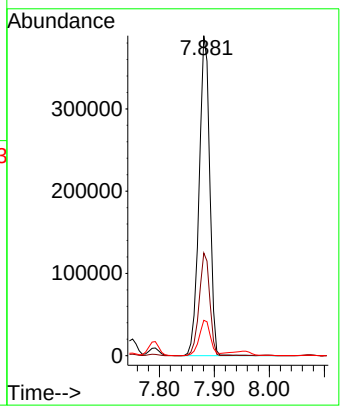


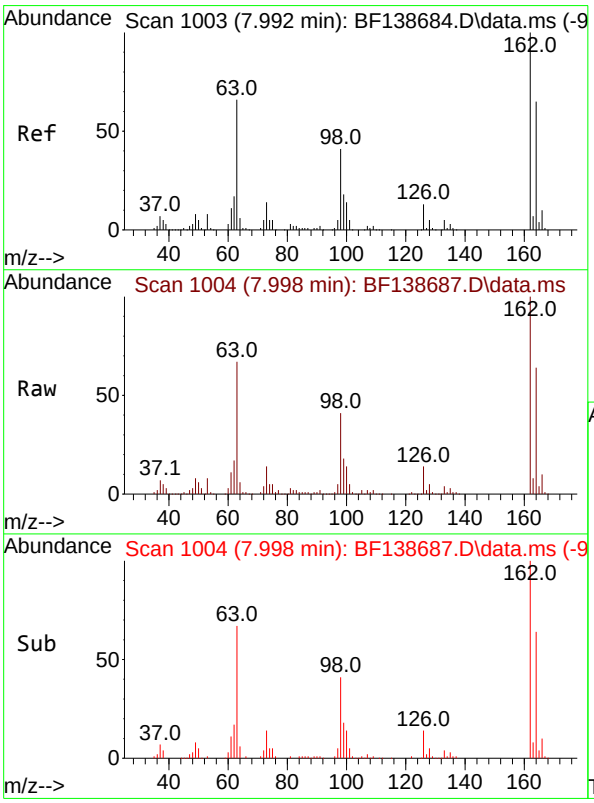

#28
bis(2-Chloroethoxy)methane
Concen: 77.190 ng
RT: 7.881 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

Tgt Ion: 93 Resp: 522528

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 32.1 | 25.8 | 38.8 |
| 123 | 11.1 | 9.4 | 14.0 |

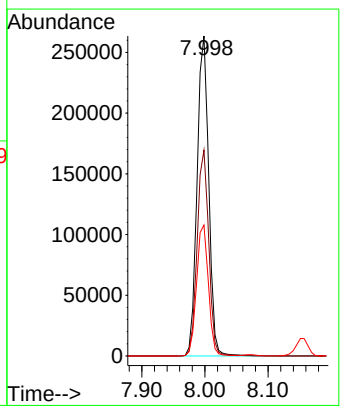


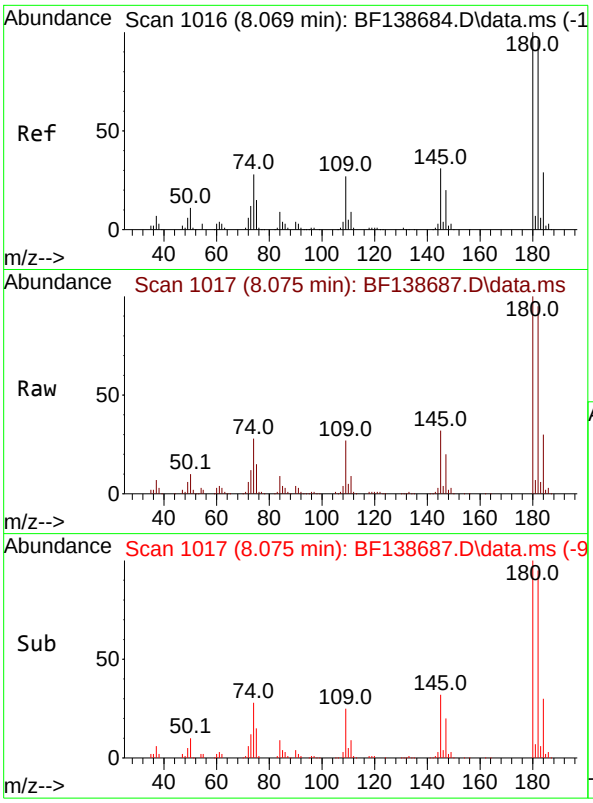




#29
2,4-Dichlorophenol
Concen: 76.805 ng
RT: 7.998 min Scan# 1004
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:162 Resp: 336540

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 164 | 64.3 | 44.7 | 84.7 |
| 98 | 40.9 | 20.8 | 60.8 |



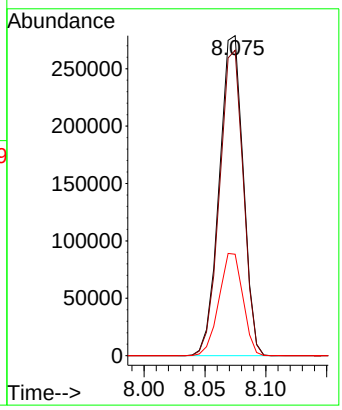


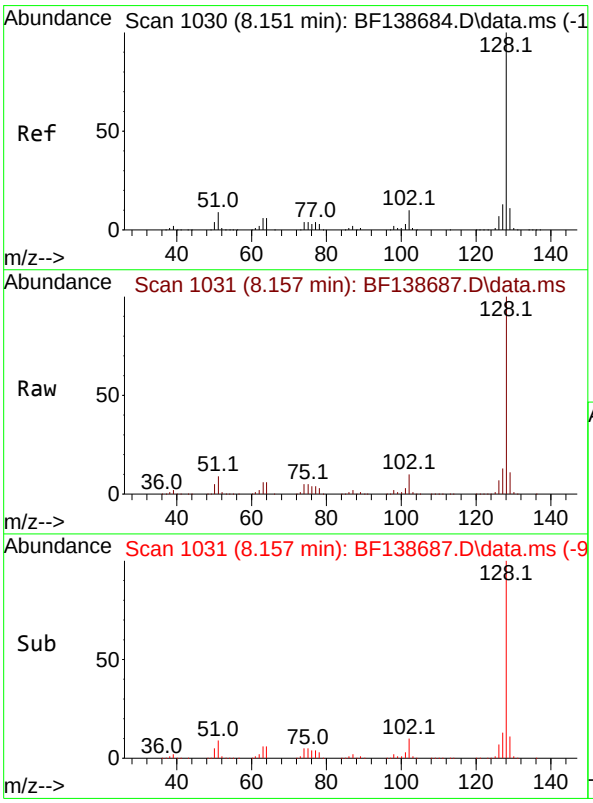

#30
1,2,4-Trichlorobenzene
Concen: 75.405 ng
RT: 8.075 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

Tgt Ion:180 Resp: 381296

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.5 | 76.9 | 115.3 |
| 145 | 31.7 | 25.0 | 37.4 |

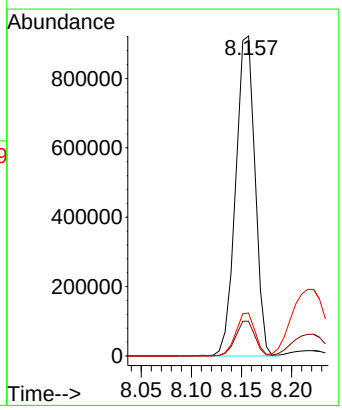


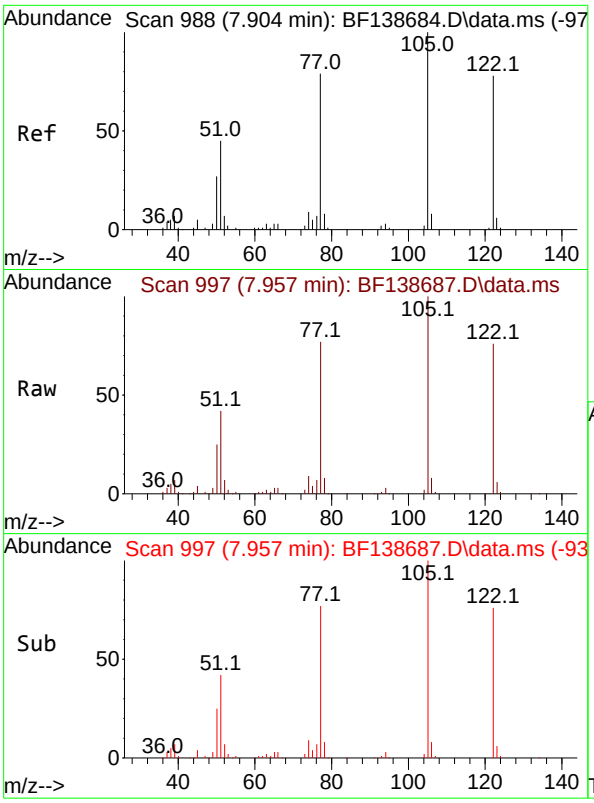




#31
Naphthalene
Concen: 74.139 ng
RT: 8.157 min Scan# 1031
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:128 Resp: 1242069

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 10.9 | 8.7 | 13.1 |
| 127 | 13.4 | 10.6 | 16.0 |



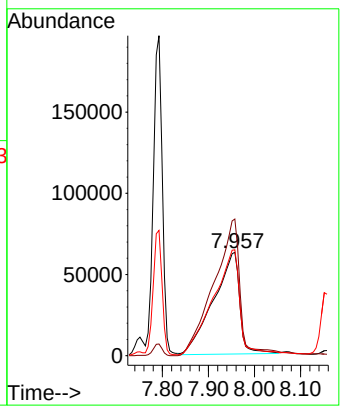


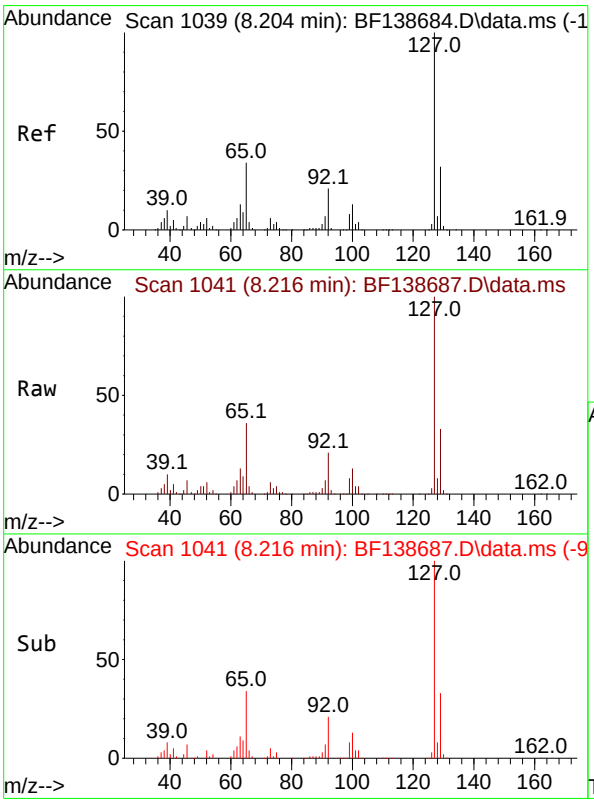

#32
Benzoic acid
Concen: 92.209 ng
RT: 7.957 min Scan# 9
Delta R.T. 0.053 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

Tgt Ion:122 Resp: 247058

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 132.3 | 106.7 | 146.7 |
| 77 | 102.5 | 81.1 | 121.1 |

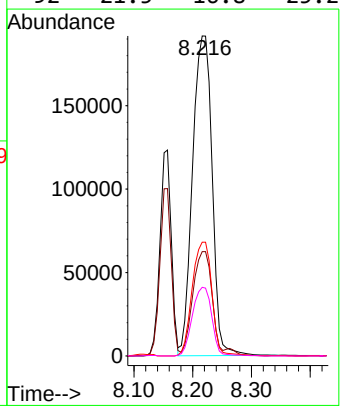


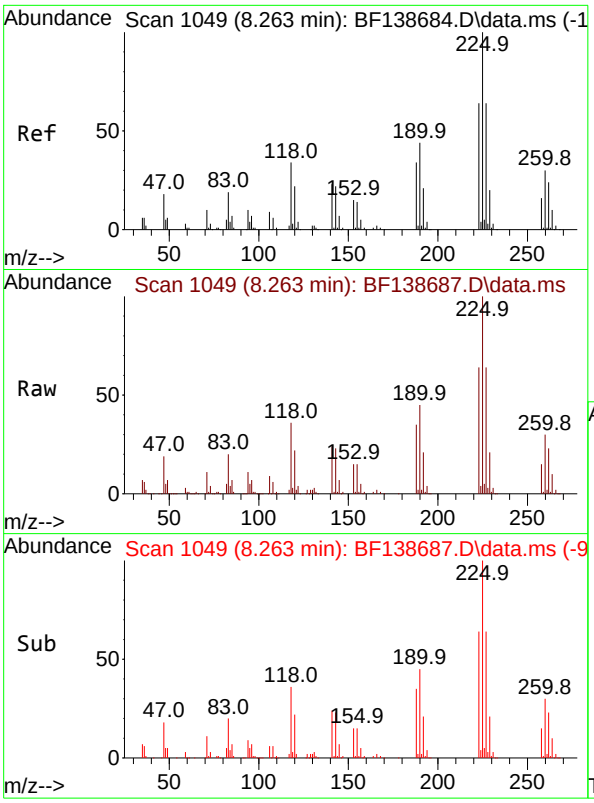




#33
4-Chloroaniline
Concen: 78.849 ng
RT: 8.216 min Scan# 1041
Delta R.T. 0.012 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:127 Resp: 443424

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 32.6 | 25.9 | 38.9 |
| 65 | 35.6 | 27.6 | 41.4 |
| 92 | 21.5 | 16.8 | 25.2 |



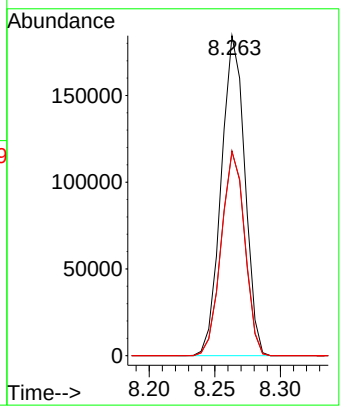


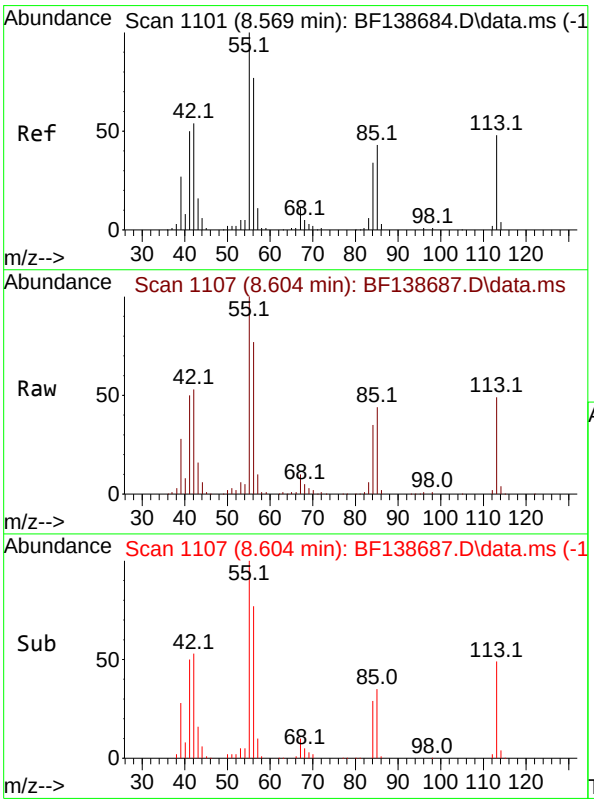

#34
Hexachlorobutadiene
Concen: 75.351 ng
RT: 8.263 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

Tgt Ion:225 Resp: 230783

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 64.0 | 51.2 | 76.8 |
| 227 | 63.7 | 51.1 | 76.7 |

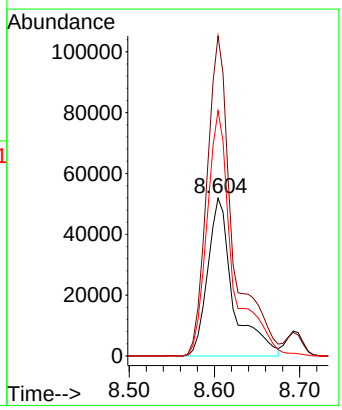


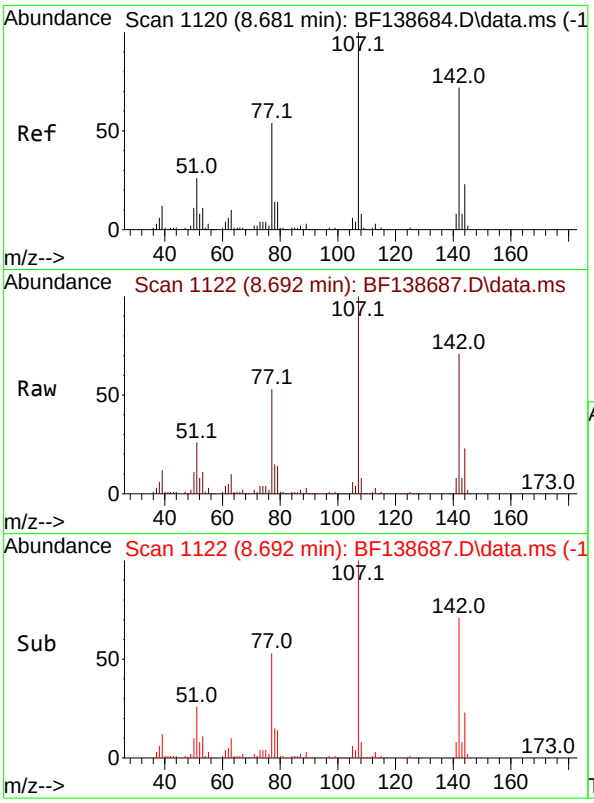




#35
Caprolactam
Concen: 82.539 ng
RT: 8.604 min Scan# 1107
Delta R.T. 0.035 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:113 Resp: 107916

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 55 | 202.9 | 186.7 | 226.7 |
| 56 | 155.5 | 138.9 | 178.9 |



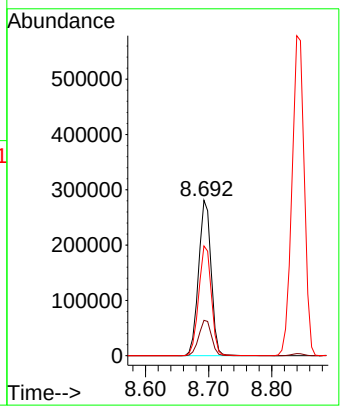


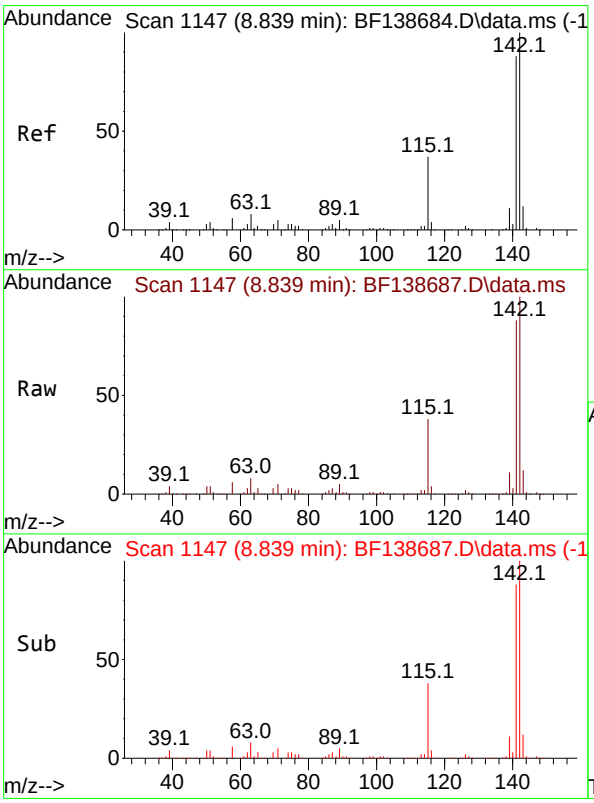

#36
4-Chloro-3-methylphenol
Concen: 77.158 ng
RT: 8.692 min Scan# 11
Delta R.T. 0.012 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

Tgt Ion:107 Resp: 386382

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 144 | 22.8 | 18.2 | 27.2 |
| 142 | 70.7 | 57.4 | 86.2 |

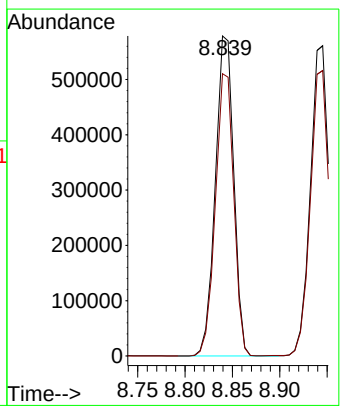


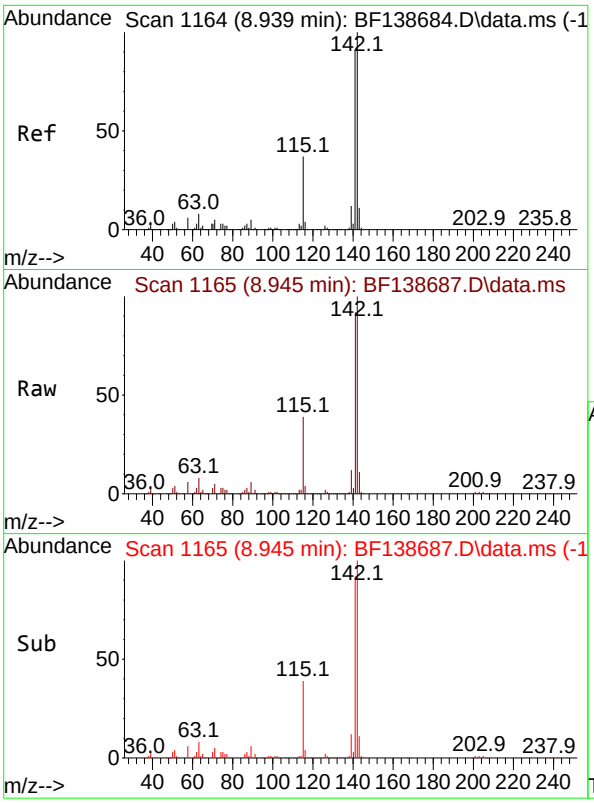




#37
2-Methylnaphthalene
Concen: 73.988 ng
RT: 8.839 min Scan# 1147
Delta R.T. 0.000 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:142 Resp: 782843

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 88.2 | 70.8 | 106.2 |



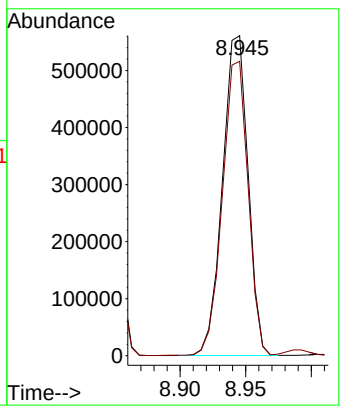


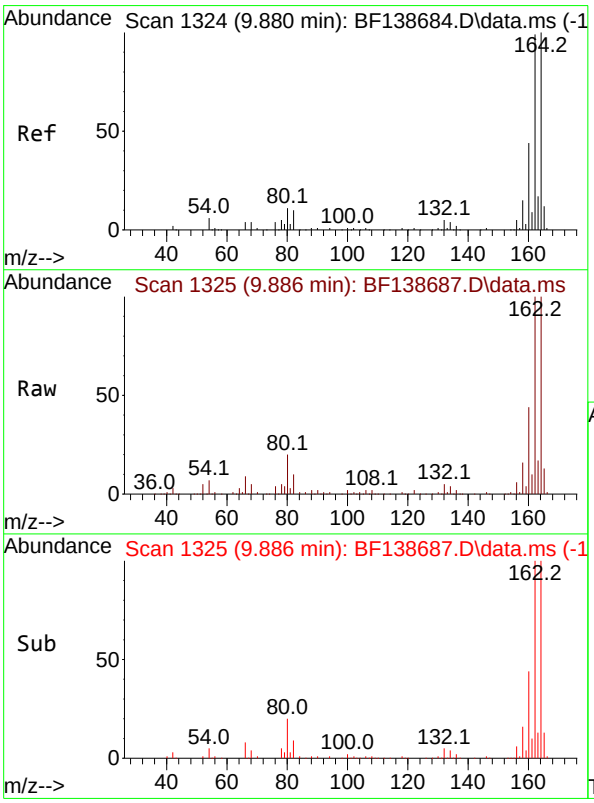

#38
1-Methylnaphthalene
Concen: 73.328 ng
RT: 8.945 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

Tgt Ion:142 Resp: 760272

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 92.0 | 73.1 | 109.7 |

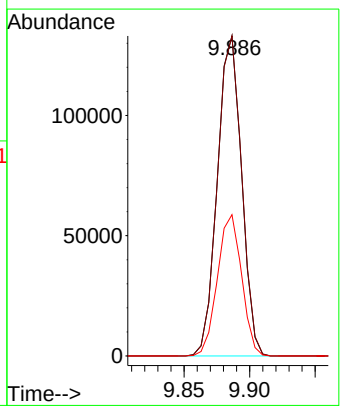


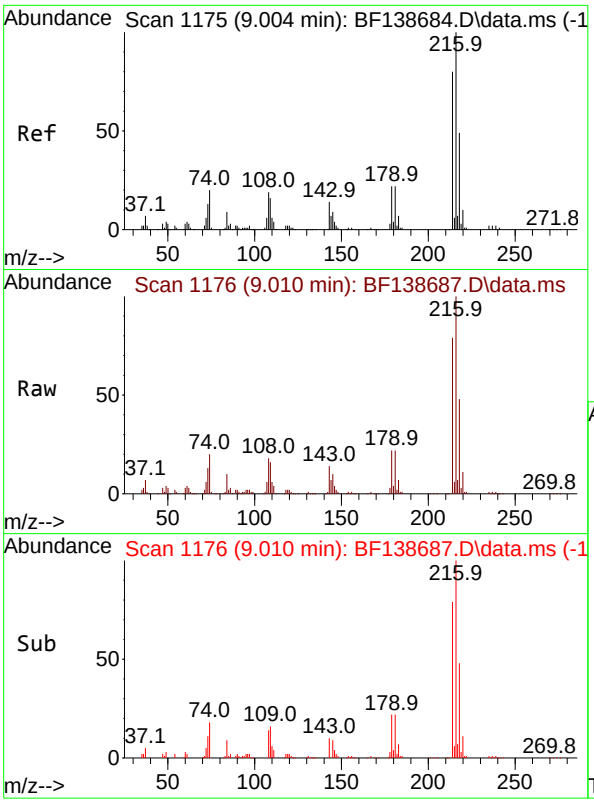




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.886 min Scan# 1325
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:164 Resp: 170513

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 100.0 | 79.4 | 119.0 |
| 160 | 44.2 | 35.1 | 52.7 |



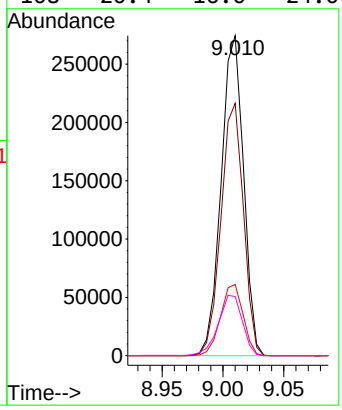


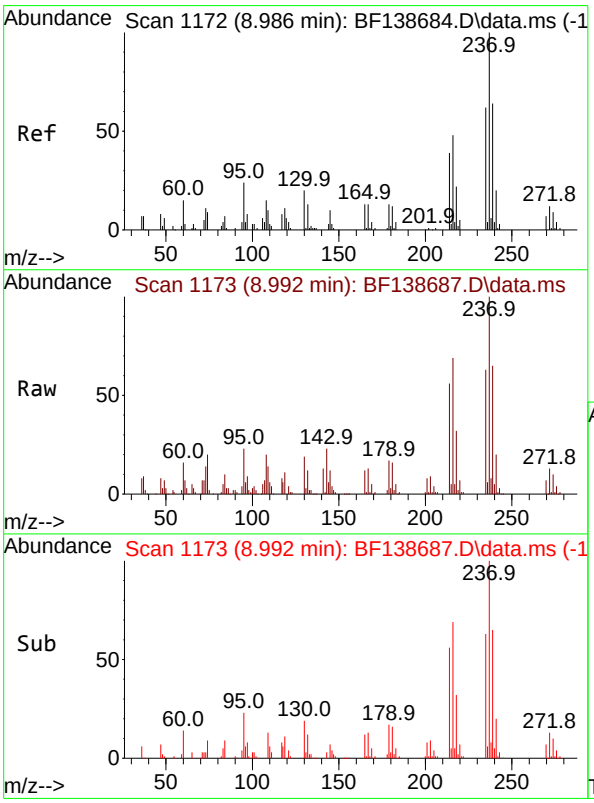

#40
1,2,4,5-Tetrachlorobenzene
Concen: 74.196 ng
RT: 9.010 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

Tgt Ion:216 Resp: 351438

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 216 | 100 | | |
| 214 | 79.1 | 63.9 | 95.9 |
| 179 | 22.5 | 17.8 | 26.6 |
| 108 | 20.4 | 16.0 | 24.0 |

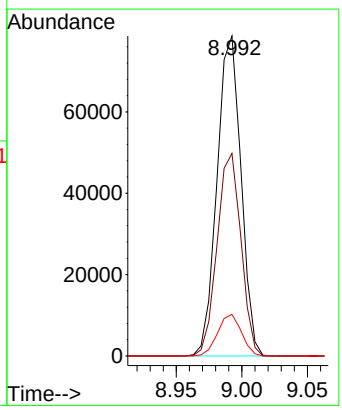


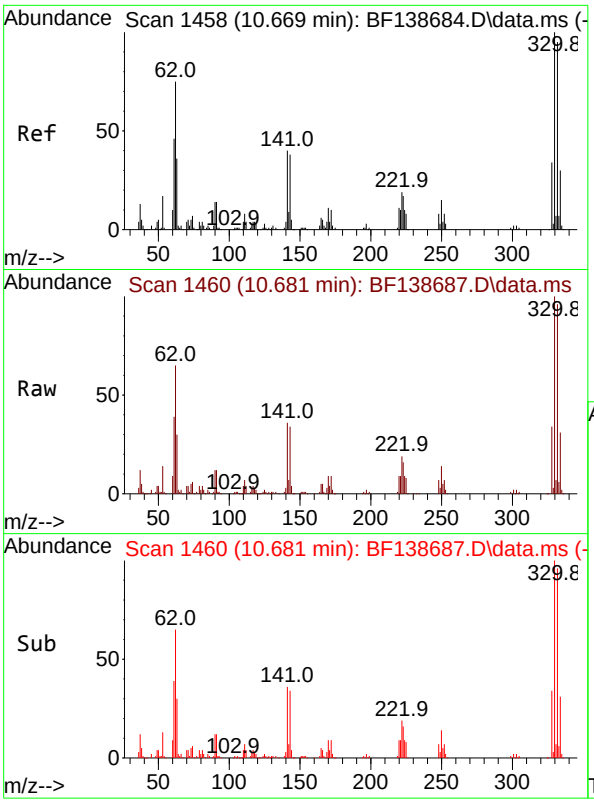




#41
Hexachlorocyclopentadiene
Concen: 79.729 ng
RT: 8.992 min Scan# 1173
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:237 Resp: 99926

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 237 | 100 | | |
| 235 | 63.3 | 41.8 | 81.8 |
| 272 | 13.0 | 0.0 | 32.2 |



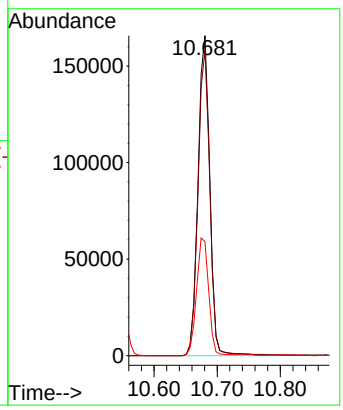


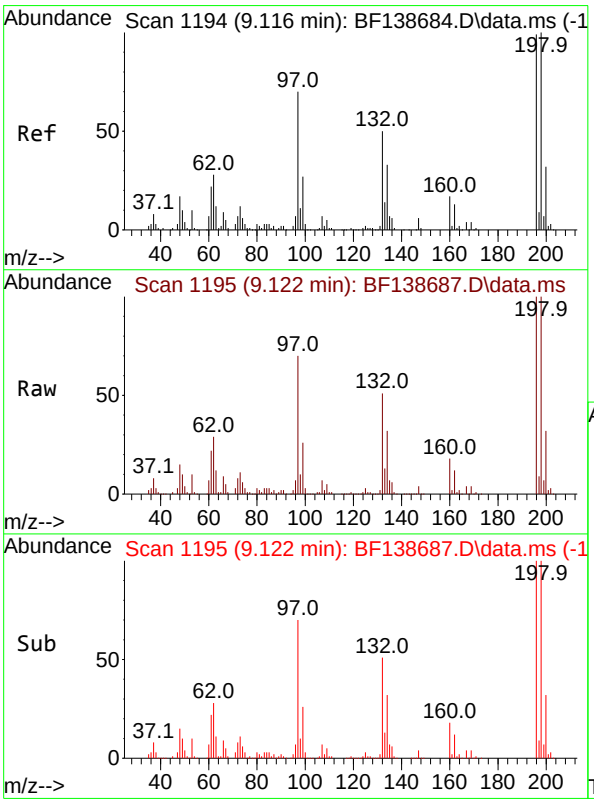

#42
2,4,6-Tribromophenol
Concen: 154.157 ng
RT: 10.681 min Scan# 14
Delta R.T. 0.012 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

Tgt Ion:330 Resp: 215316

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 95.3 | 76.4 | 114.6 |
| 141 | 37.9 | 31.1 | 46.7 |

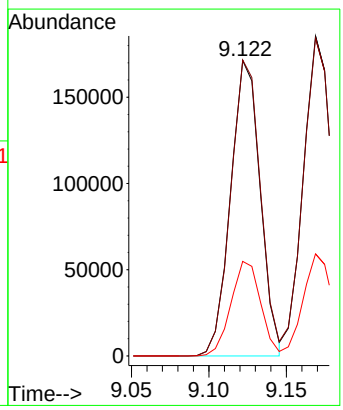


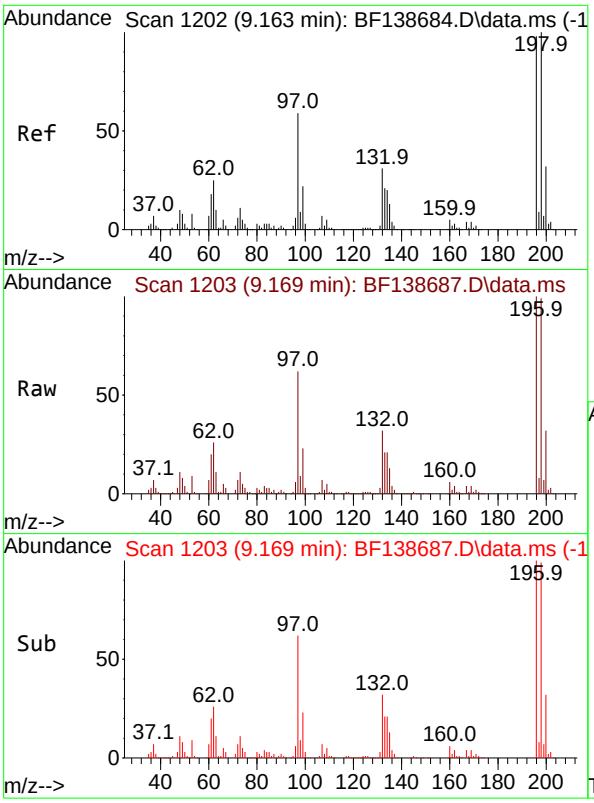




#43
2,4,6-Trichlorophenol
Concen: 78.913 ng
RT: 9.122 min Scan# 1195
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:196 Resp: 227901

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 100.2 | 80.5 | 120.7 |
| 200 | 32.0 | 25.9 | 38.9 |



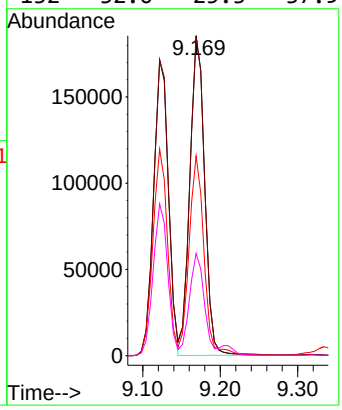


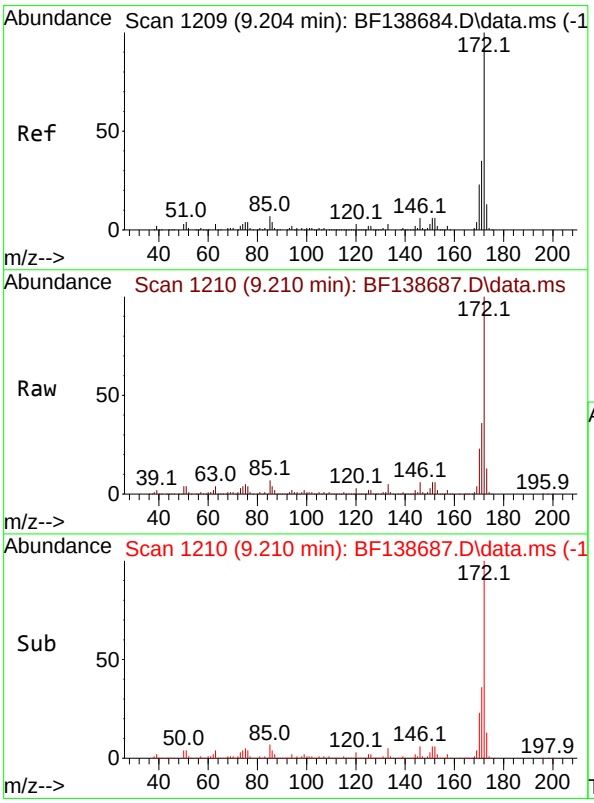

#44
2,4,5-Trichlorophenol
Concen: 77.822 ng
RT: 9.169 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

Tgt Ion:196 Resp: 245697

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 99.3 | 81.2 | 121.8 |
| 97 | 62.4 | 47.8 | 71.6 |
| 132 | 32.0 | 25.3 | 37.9 |

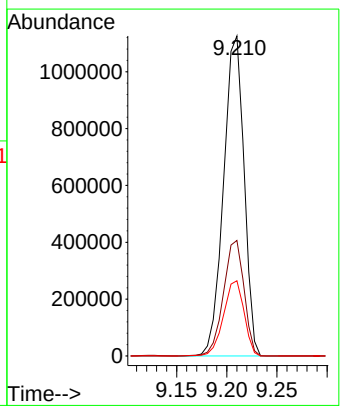


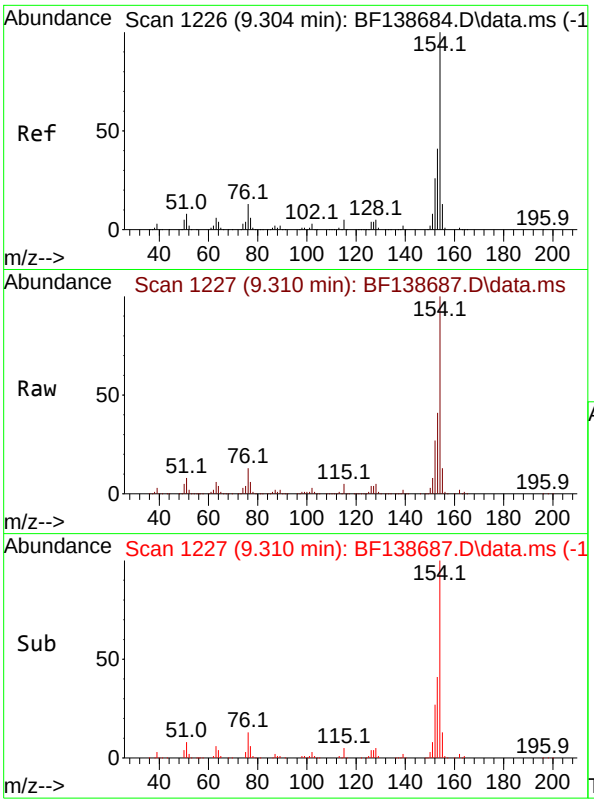




#45
2-Fluorobiphenyl
Concen: 140.843 ng
RT: 9.210 min Scan# 1210
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:172 Resp: 1598378

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.1 | 28.3 | 42.5 |
| 170 | 23.5 | 18.8 | 28.2 |



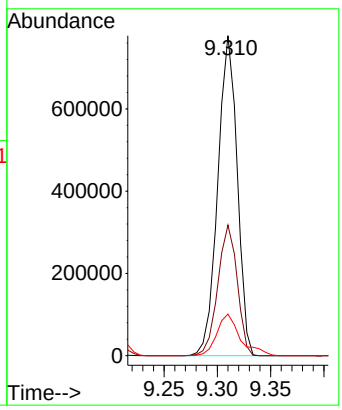


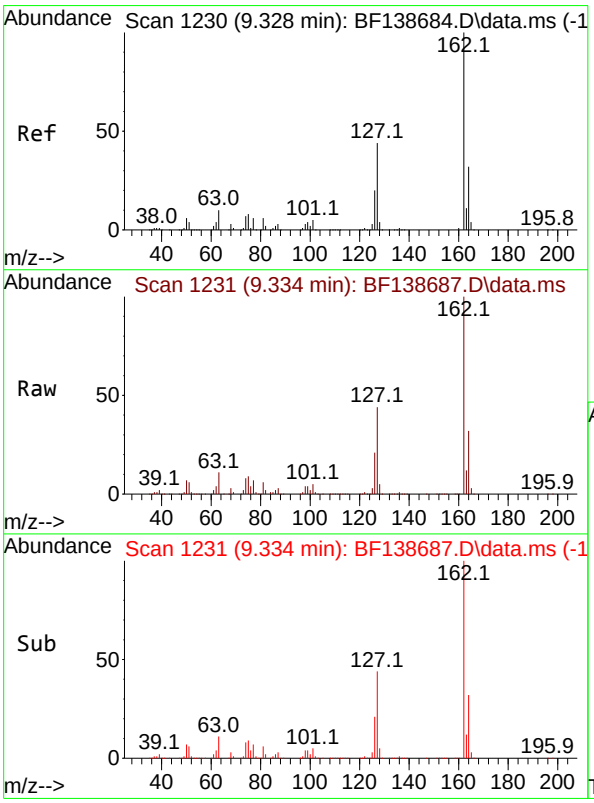

#46
1,1'-Biphenyl
Concen: 73.651 ng
RT: 9.310 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

Tgt Ion:154 Resp: 983564

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 40.8 | 20.8 | 60.8 |
| 76 | 13.0 | 0.0 | 32.8 |

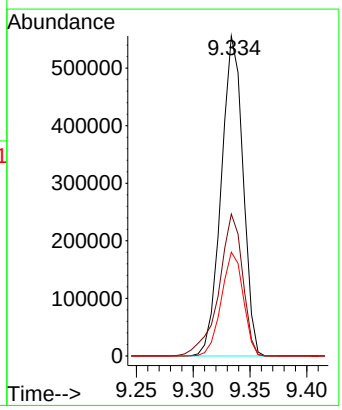


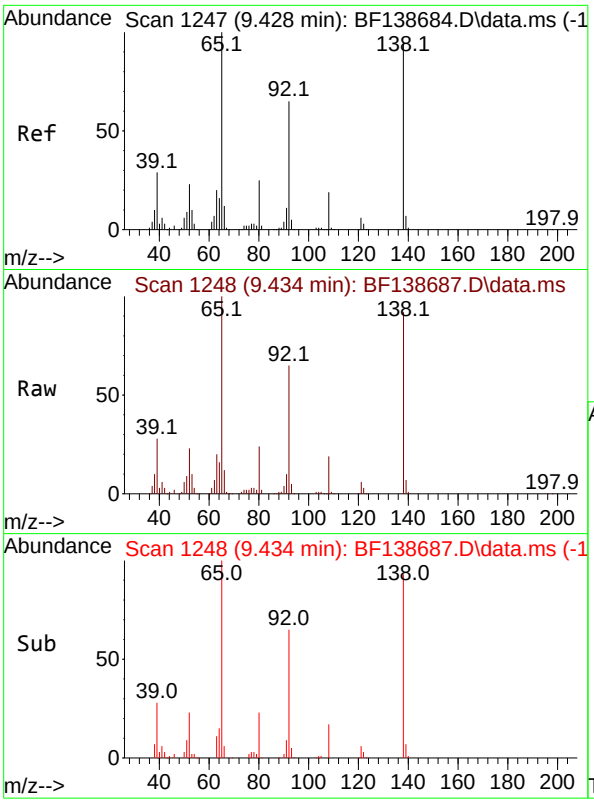




#47
2-Chloronaphthalene
Concen: 74.793 ng
RT: 9.334 min Scan# 1231
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:162 Resp: 742852

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 127 | 44.4 | 35.4 | 53.2 |
| 164 | 32.4 | 25.6 | 38.4 |



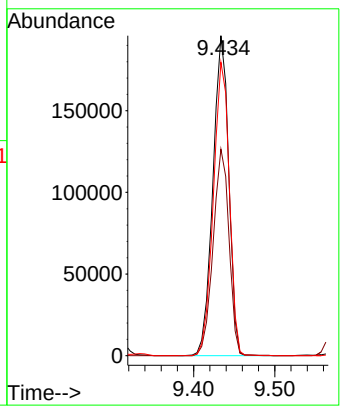


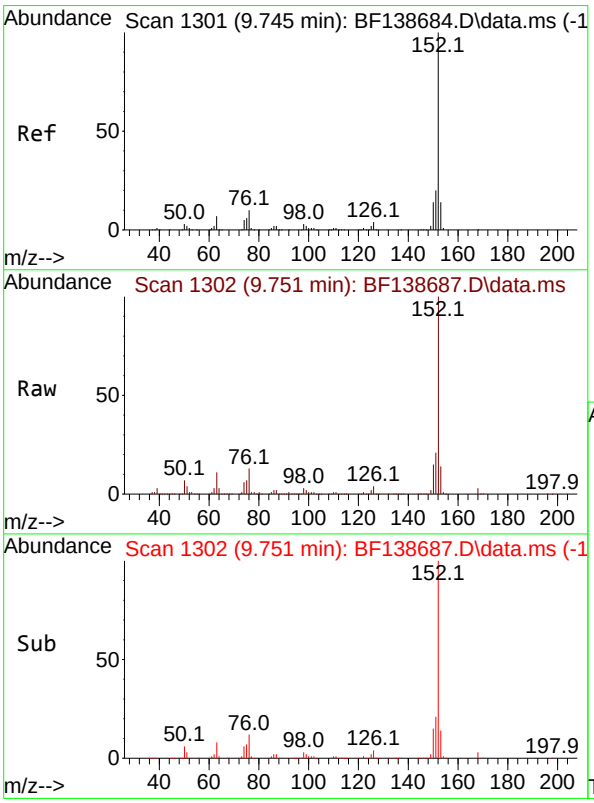

#48
2-Nitroaniline
Concen: 79.066 ng
RT: 9.434 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

Tgt Ion: 65 Resp: 266220

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 92 | 64.6 | 52.0 | 78.0 |
| 138 | 91.7 | 76.2 | 114.4 |

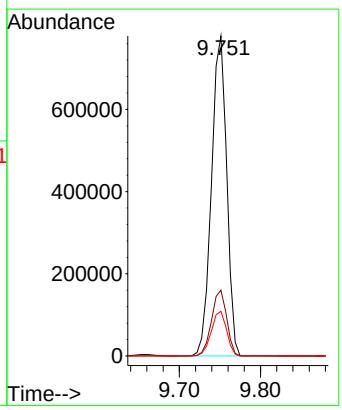


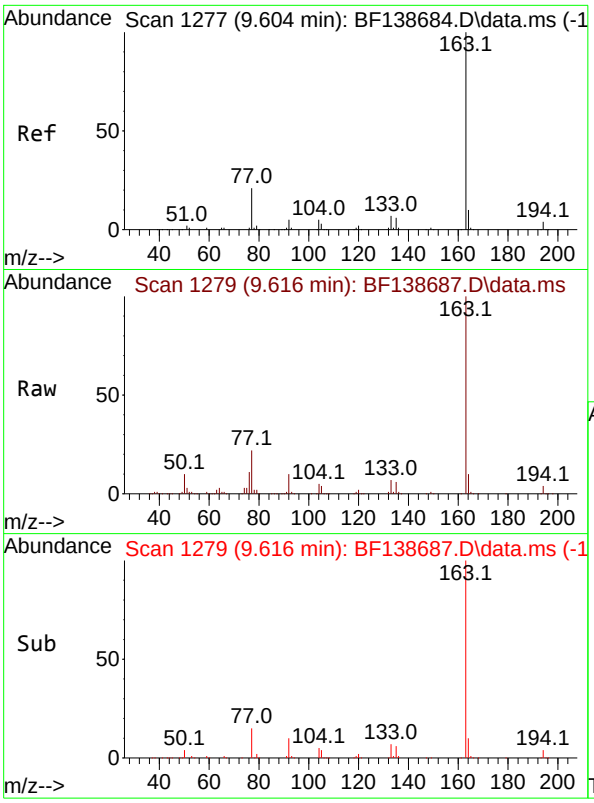




#49
Acenaphthylene
Concen: 71.944 ng
RT: 9.751 min Scan# 1302
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:152 Resp: 1013441

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.6 | 16.0 | 24.0 |
| 153 | 14.0 | 11.0 | 16.4 |



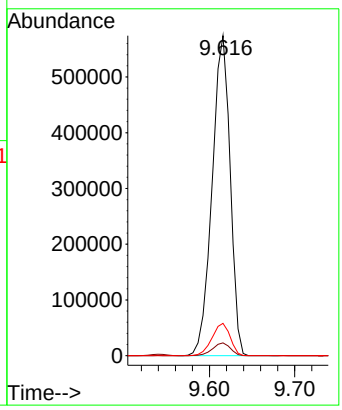


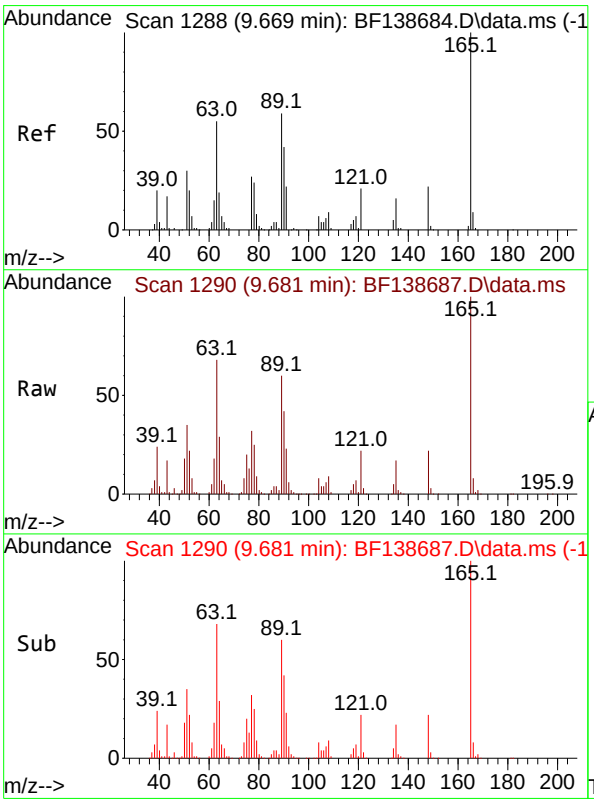

#50
Dimethylphthalate
Concen: 77.379 ng
RT: 9.616 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

Tgt Ion:163 Resp: 843645

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 4.0 | 3.1 | 4.7 |
| 164 | 10.1 | 7.8 | 11.8 |

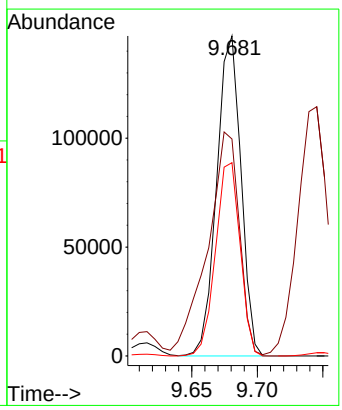


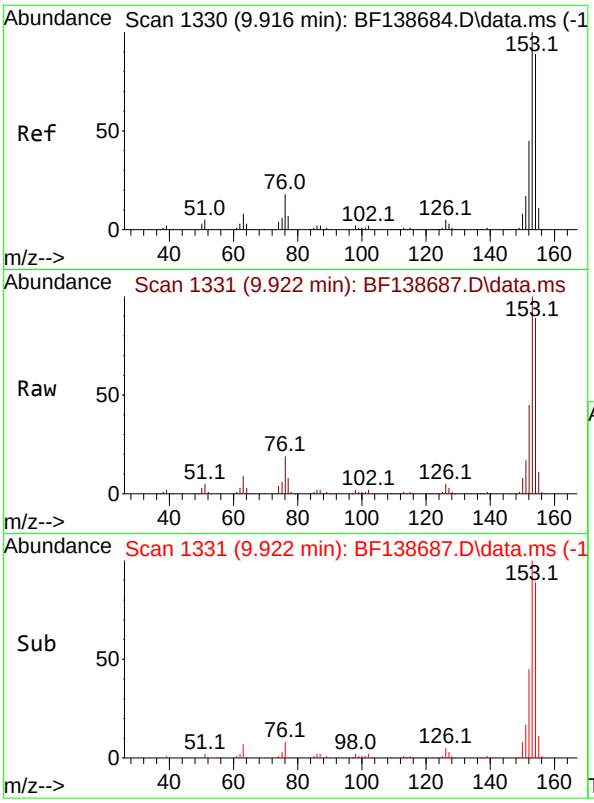




#51
2,6-Dinitrotoluene
Concen: 76.868 ng
RT: 9.681 min Scan# 1290
Delta R.T. 0.012 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:165 Resp: 189138

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 67.8 | 52.0 | 78.0 |
| 89 | 60.4 | 47.0 | 70.6 |



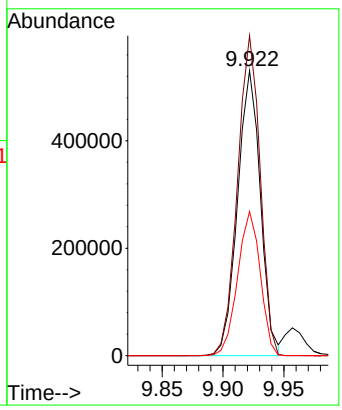


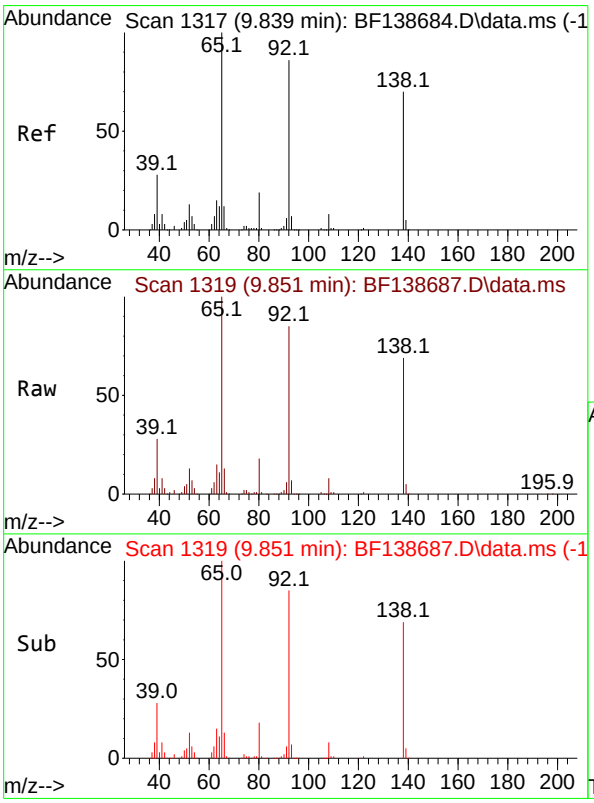

#52
Acenaphthene
Concen: 73.198 ng
RT: 9.922 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

Tgt Ion:154 Resp: 693130

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 112.3 | 89.9 | 134.9 |
| 152 | 50.6 | 40.6 | 60.8 |

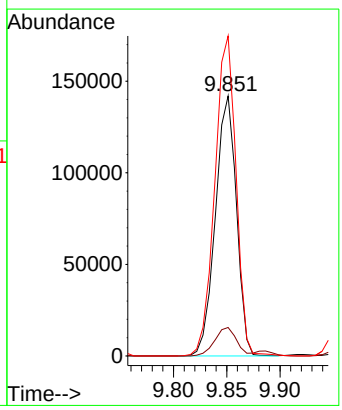


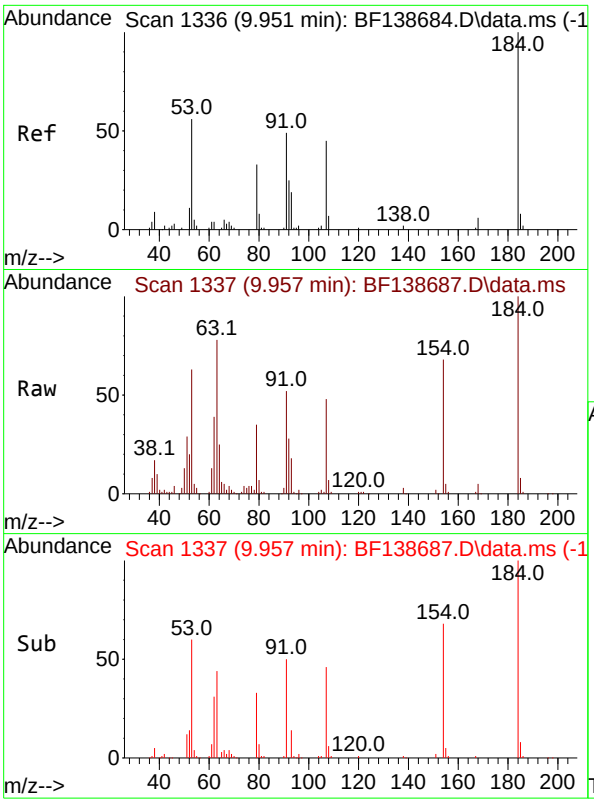




#53
3-Nitroaniline
Concen: 76.581 ng
RT: 9.851 min Scan# 1319
Delta R.T. 0.012 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:138 Resp: 194796

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 108 | 11.0 | 9.1 | 13.7 |
| 92 | 123.1 | 98.7 | 148.1 |



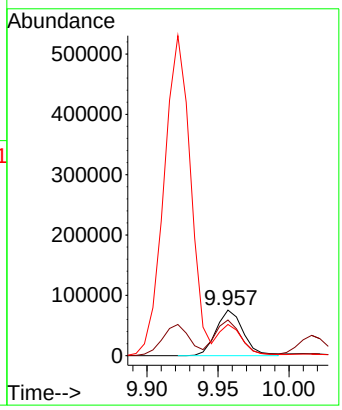


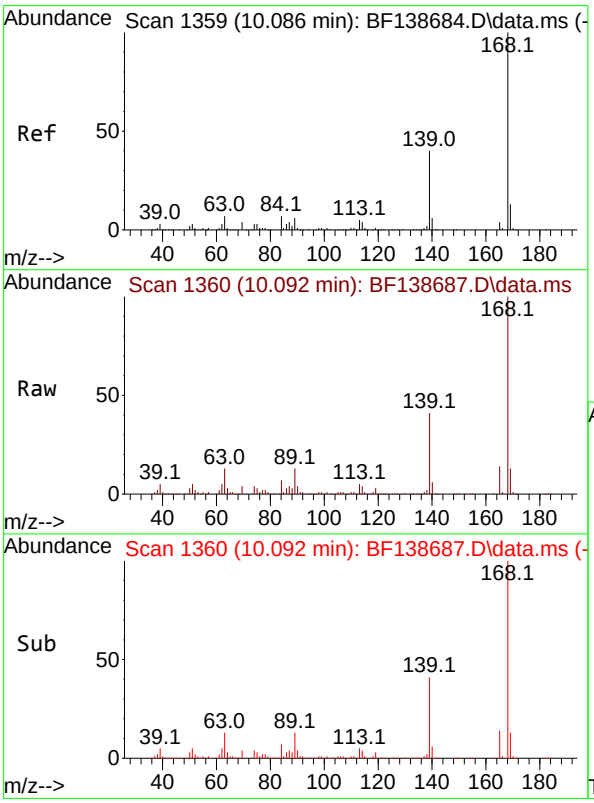

#54
2,4-Dinitrophenol
Concen: 88.986 ng
RT: 9.957 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

Tgt Ion:184 Resp: 100793

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 63 | 78.3 | 57.5 | 86.3 |
| 154 | 68.5 | 51.7 | 77.5 |

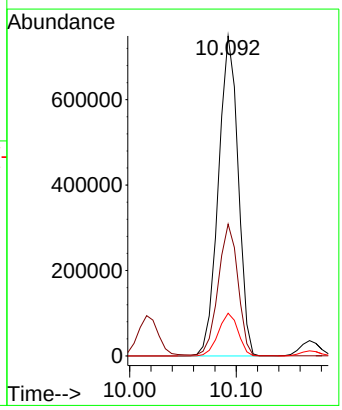


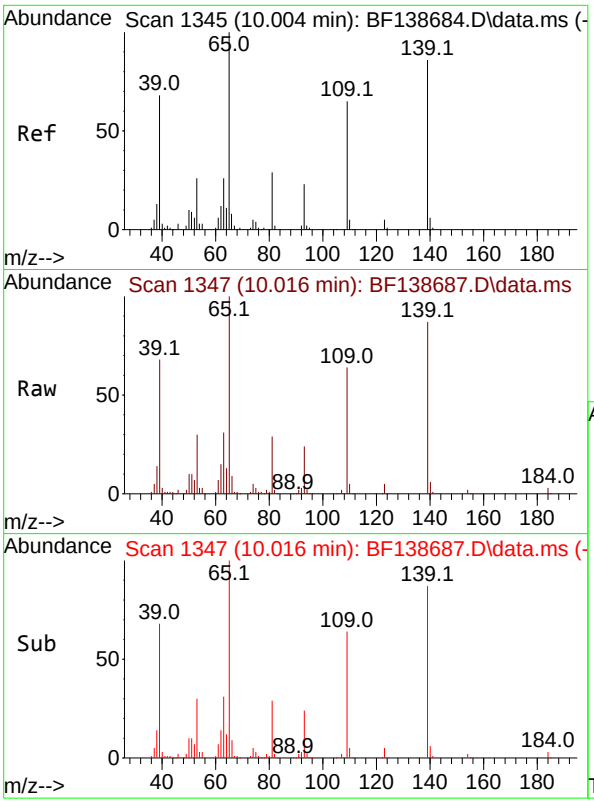




#55
Dibenzofuran
Concen: 72.071 ng
RT: 10.092 min Scan# 1360
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:168 Resp: 963359

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 41.2 | 32.6 | 49.0 |
| 169 | 13.4 | 10.7 | 16.1 |



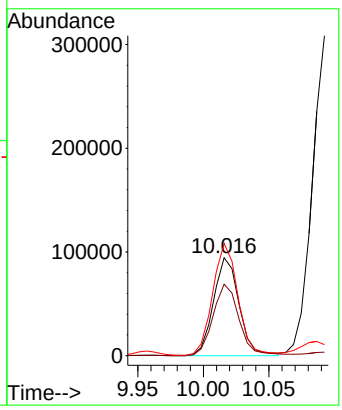


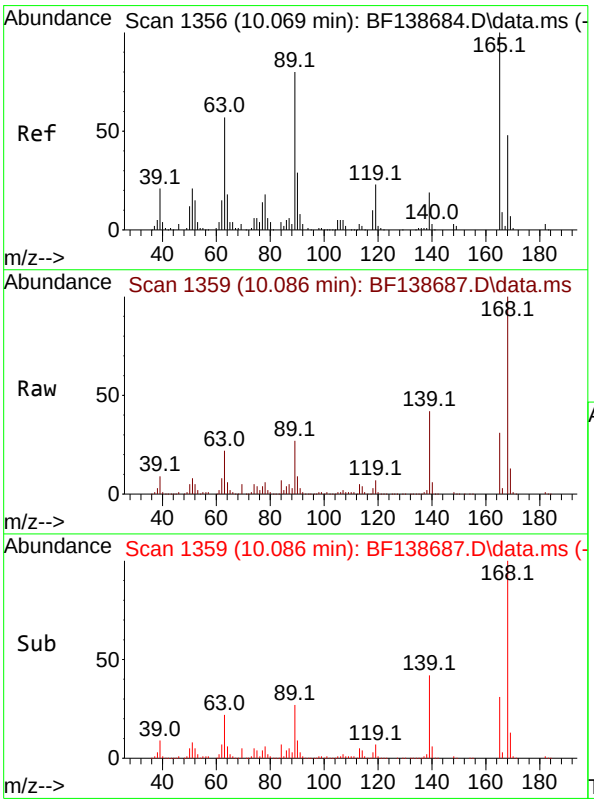

#56
4-Nitrophenol
Concen: 83.411 ng
RT: 10.016 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

Tgt Ion:139 Resp: 127589

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 73.1 | 55.5 | 95.5 |
| 65 | 114.7 | 96.7 | 136.7 |

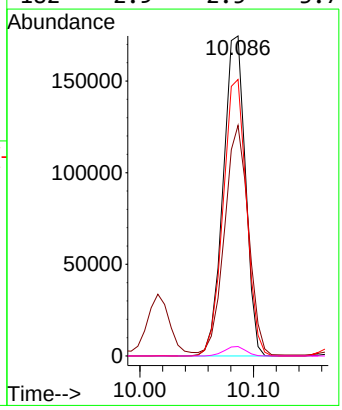


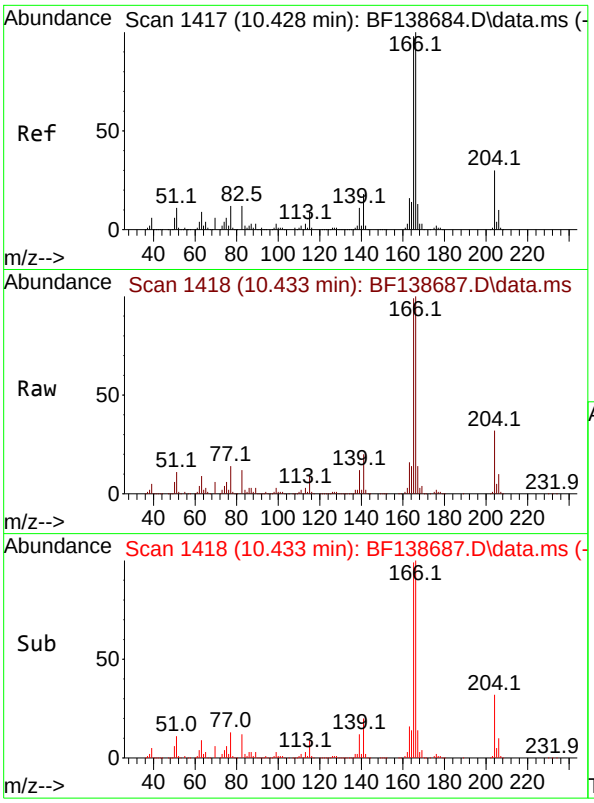




#57
2,4-Dinitrotoluene
Concen: 75.642 ng
RT: 10.086 min Scan# 1359
Delta R.T. 0.018 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:165 Resp: 237463

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 72.1 | 46.3 | 69.5# |
| 89 | 86.4 | 64.2 | 96.4 |
| 182 | 2.9 | 2.5 | 3.7 |



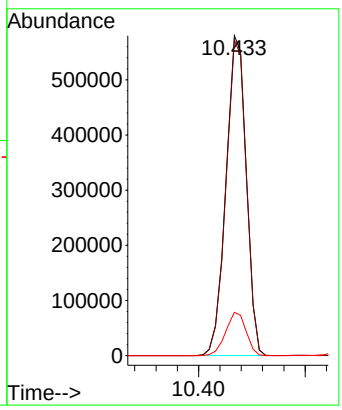


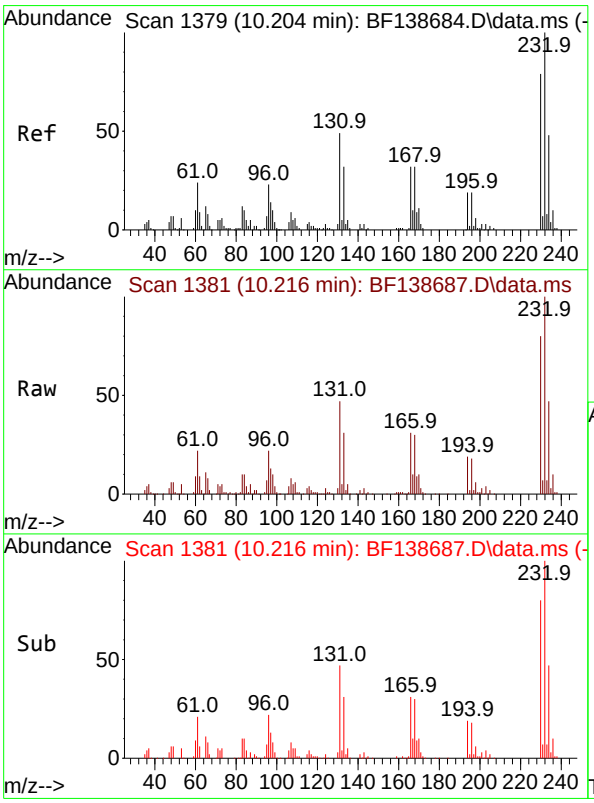

#58
Fluorene
Concen: 72.188 ng
RT: 10.433 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

Tgt Ion:166 Resp: 768404

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 98.7 | 78.4 | 117.6 |
| 167 | 13.6 | 10.6 | 16.0 |

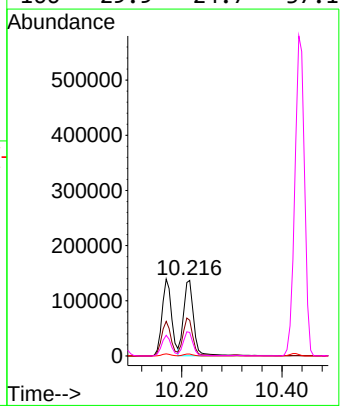


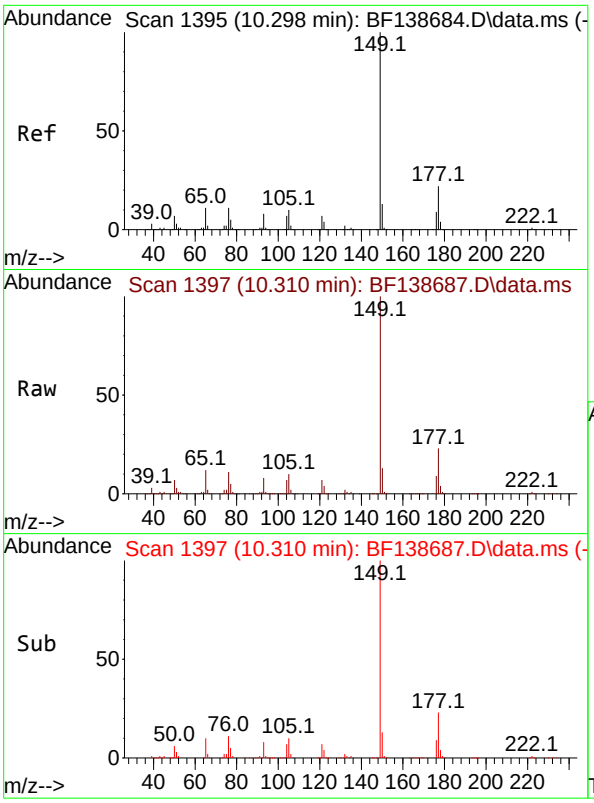




#59
2,3,4,6-Tetrachlorophenol
Concen: 79.721 ng
RT: 10.216 min Scan# 1381
Delta R.T. 0.012 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:232 Resp: 192425

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 232 | 100 | | |
| 131 | 48.4 | 37.0 | 55.4 |
| 130 | 2.5 | 2.0 | 3.0 |
| 166 | 29.9 | 24.7 | 37.1 |



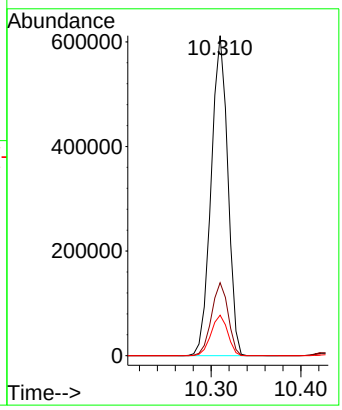


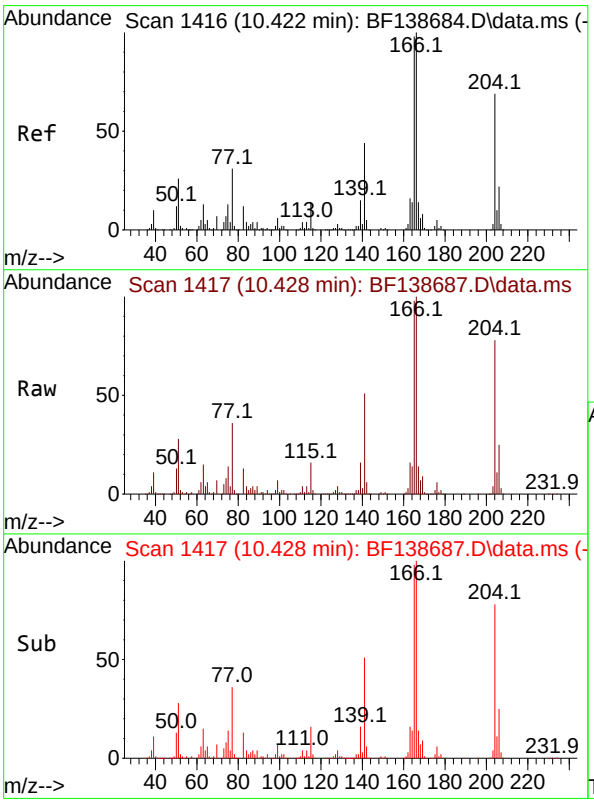

#60
Diethylphthalate
Concen: 76.270 ng
RT: 10.310 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

Tgt Ion:149 Resp: 788464

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 177 | 22.8 | 17.8 | 26.8 |
| 150 | 12.7 | 10.1 | 15.1 |

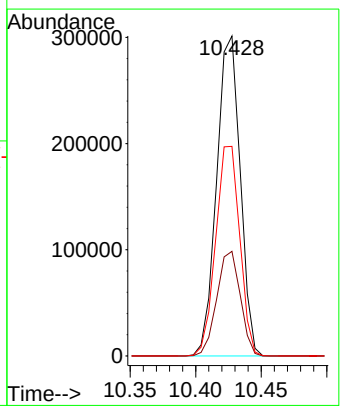


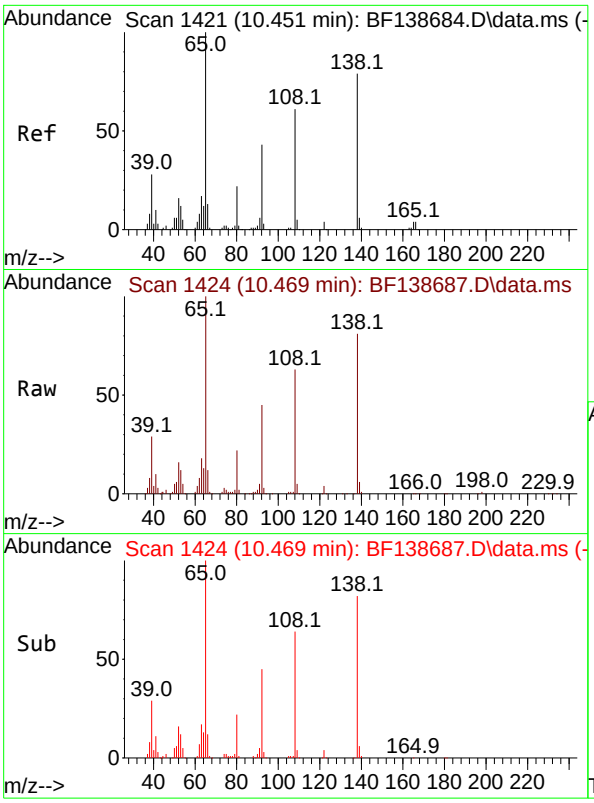




#61
4-Chlorophenyl-phenylether
Concen: 71.847 ng
RT: 10.428 min Scan# 1417
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:204 Resp: 376130

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 204 | 100 | | |
| 206 | 32.7 | 26.1 | 39.1 |
| 141 | 65.5 | 51.4 | 77.0 |



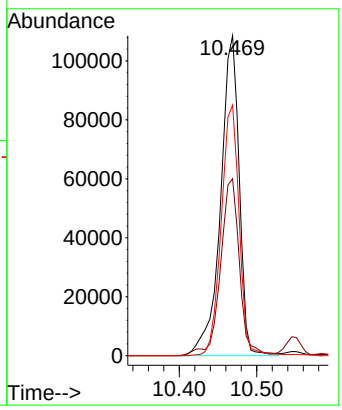


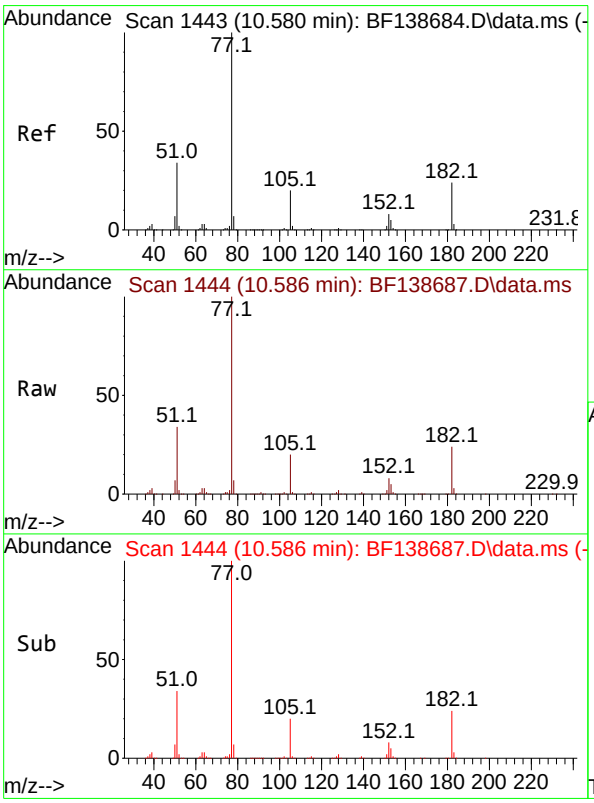

#62
4-Nitroaniline
Concen: 75.227 ng
RT: 10.469 min Scan# 14
Delta R.T. 0.018 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

Tgt Ion:138 Resp: 181845

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 55.3 | 34.2 | 74.2 |
| 108 | 78.3 | 56.2 | 96.2 |

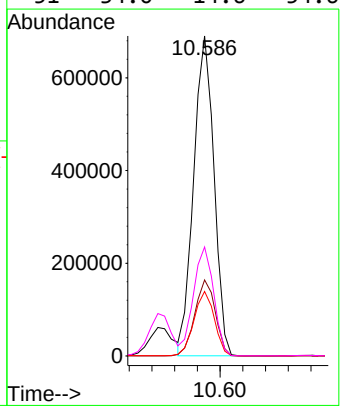


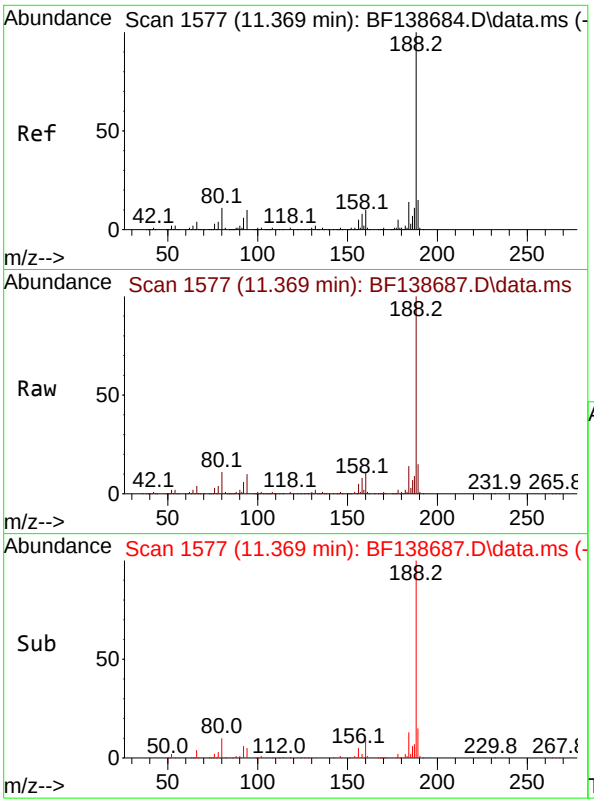




#63
Azobenzene
Concen: 74.806 ng
RT: 10.586 min Scan# 1444
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion: 77 Resp: 857699

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 182 | 23.8 | 3.4 | 43.4 |
| 105 | 20.1 | 0.2 | 40.2 |
| 51 | 34.0 | 14.6 | 54.6 |



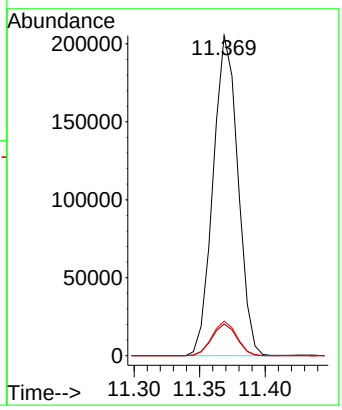


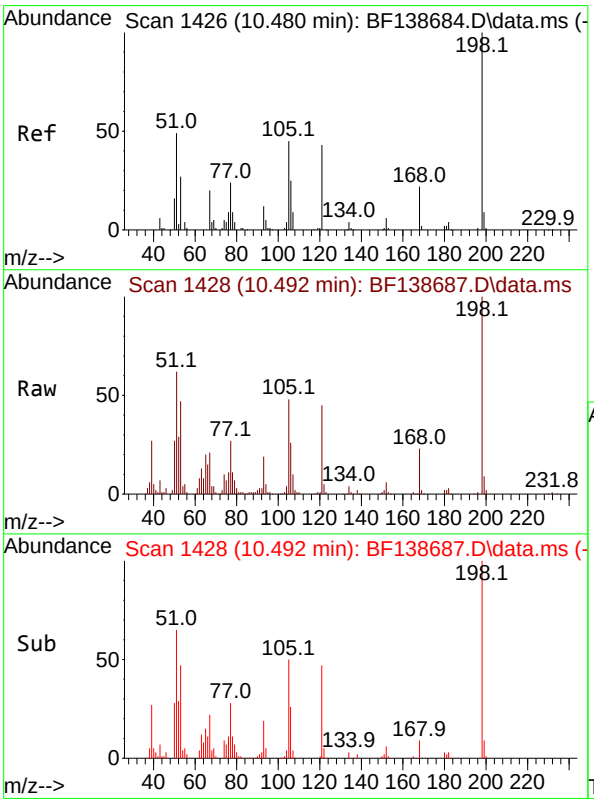

#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.369 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

Tgt Ion:188 Resp: 270140

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 9.9 | 7.6 | 11.4 |
| 80 | 10.8 | 8.6 | 12.8 |

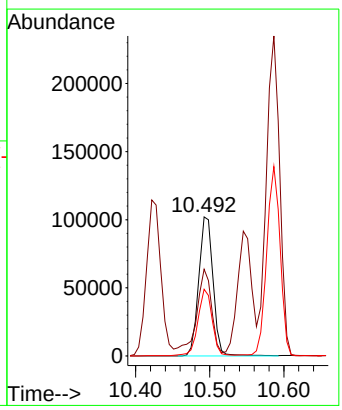


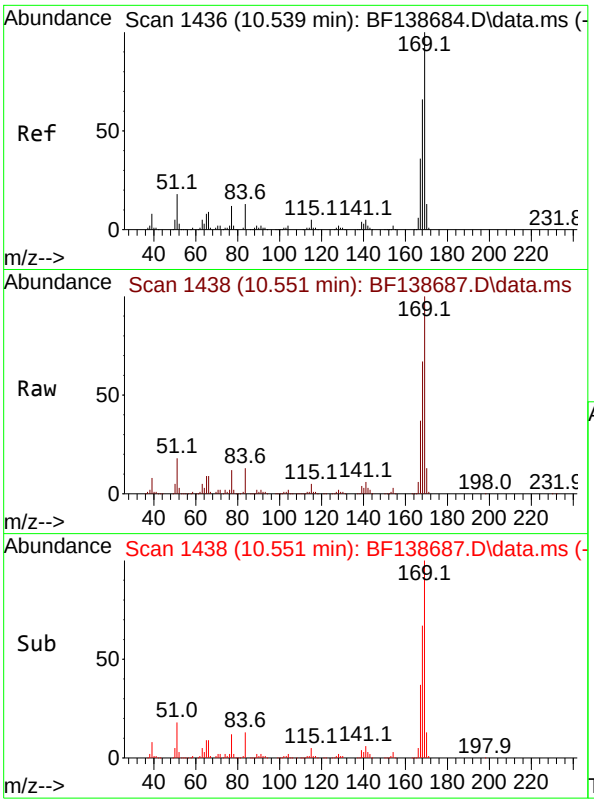




#65
4,6-Dinitro-2-methylphenol
Concen: 83.368 ng
RT: 10.492 min Scan# 1428
Delta R.T. 0.012 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:198 Resp: 137397

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 62.4 | 39.9 | 79.9 |
| 105 | 48.0 | 26.1 | 66.1 |



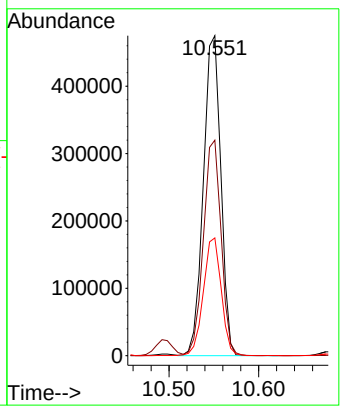


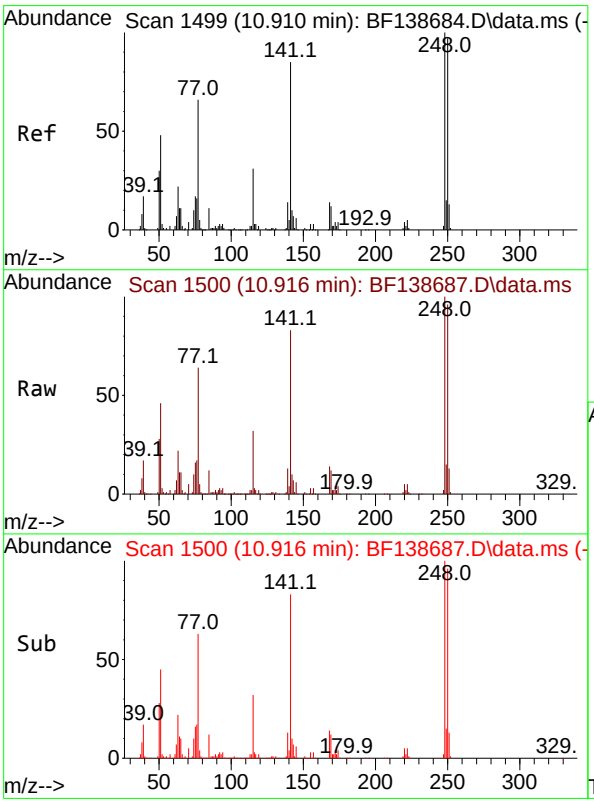

#66
n-Nitrosodiphenylamine
Concen: 76.022 ng
RT: 10.551 min Scan# 14
Delta R.T. 0.012 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

Tgt Ion:169 Resp: 641930

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 67.3 | 53.0 | 79.6 |
| 167 | 36.8 | 29.0 | 43.6 |

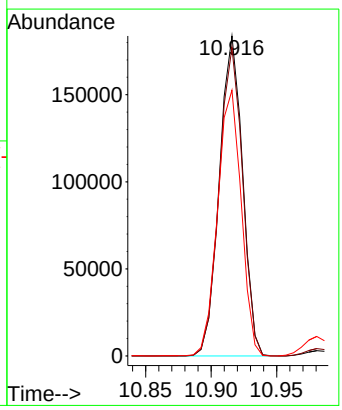


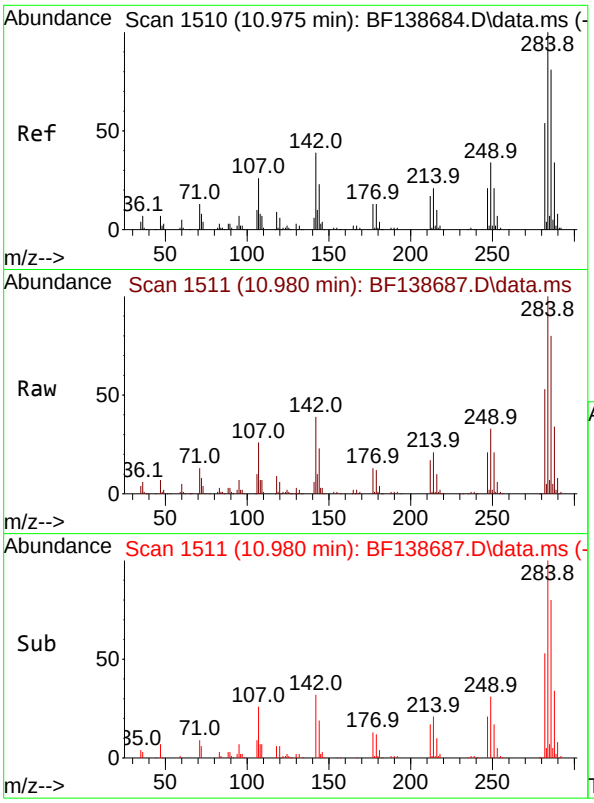




#67
4-Bromophenyl-phenylether
Concen: 77.318 ng
RT: 10.916 min Scan# 1500
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:248 Resp: 226137

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 96.4 | 77.7 | 116.5 |
| 141 | 83.0 | 68.0 | 102.0 |



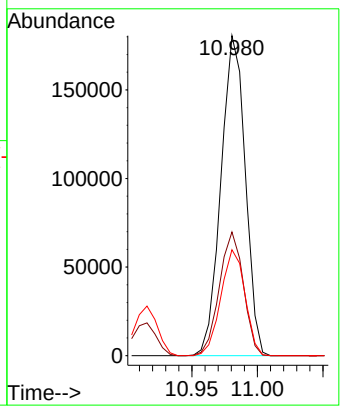


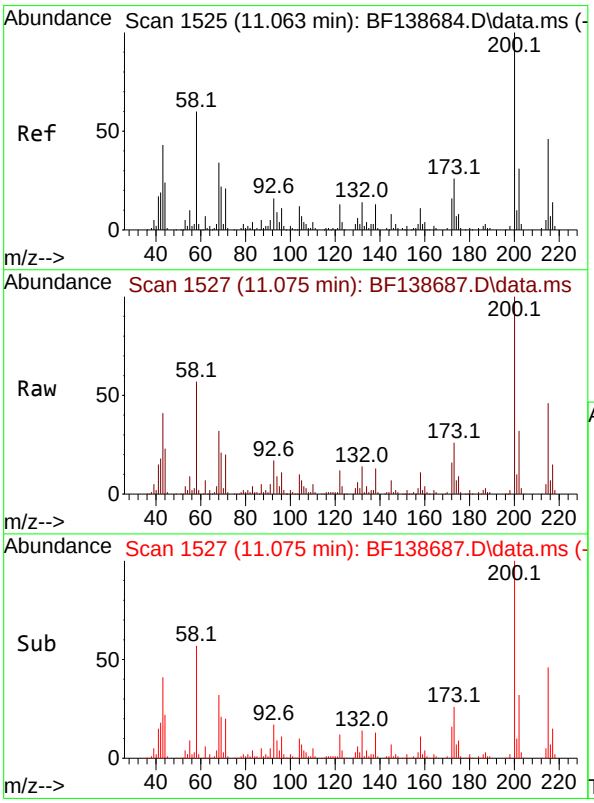

#68
Hexachlorobenzene
Concen: 77.158 ng
RT: 10.980 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

Tgt Ion:284 Resp: 233005

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 38.7 | 31.3 | 46.9 |
| 249 | 33.1 | 27.2 | 40.8 |

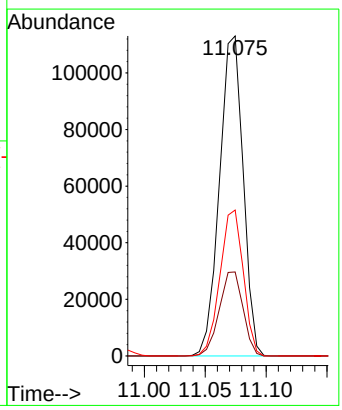


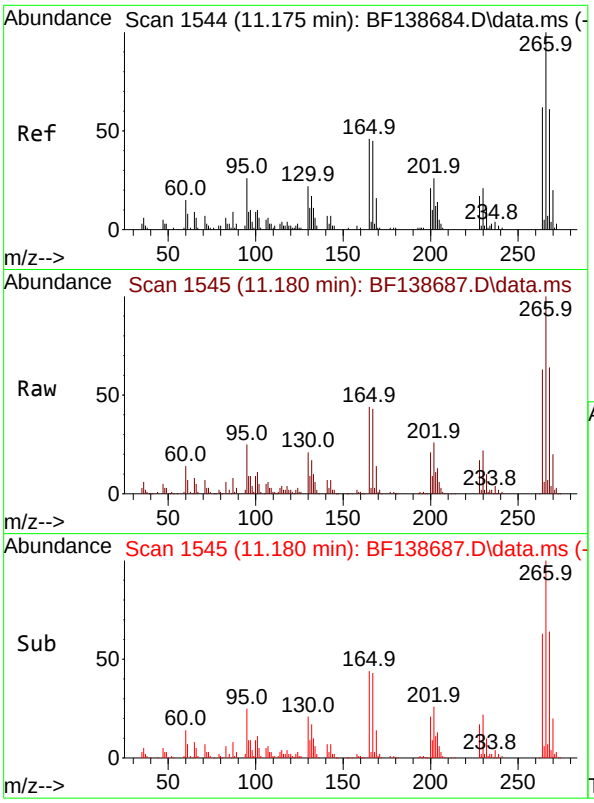




#69
Atrazine
Concen: 70.122 ng
RT: 11.075 min Scan# 1527
Delta R.T. 0.012 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:200 Resp: 152765

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 26.2 | 6.0 | 46.0 |
| 215 | 45.6 | 26.1 | 66.1 |



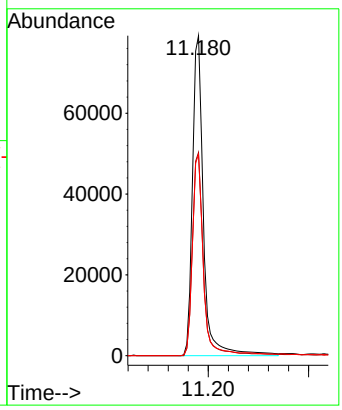


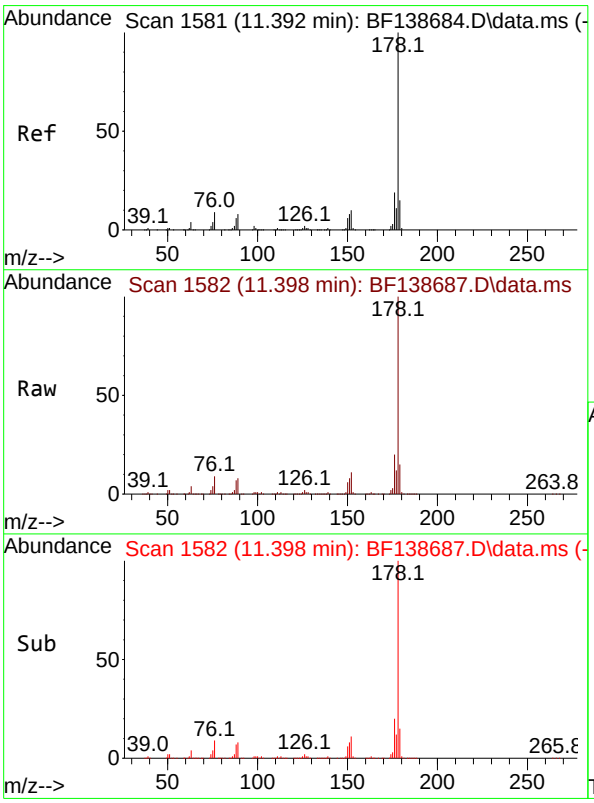

#70
Pentachlorophenol
Concen: 88.455 ng
RT: 11.180 min Scan# 1
Delta R.T. 0.005 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

Tgt Ion:266 Resp: 120403

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 268 | 63.5 | 49.2 | 73.8 |
| 264 | 63.0 | 49.8 | 74.6 |

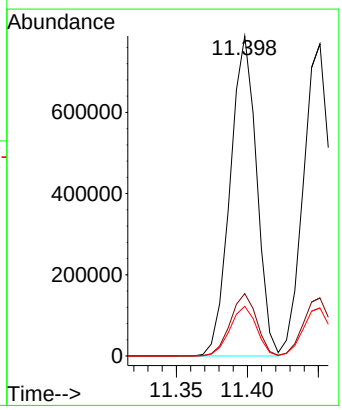


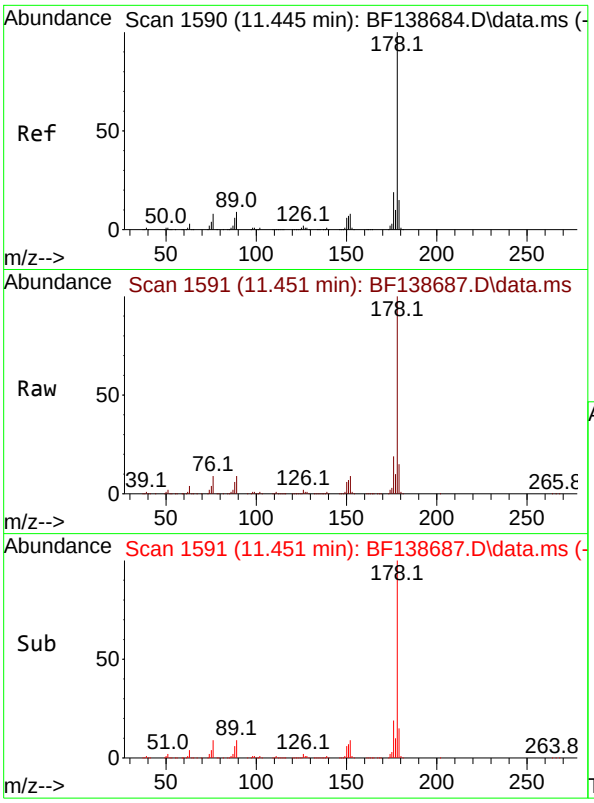




#71
Phenanthrene
Concen: 73.341 ng
RT: 11.398 min Scan# 1582
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:178 Resp: 1020185

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.5 | 15.4 | 23.0 |
| 179 | 15.5 | 12.2 | 18.2 |



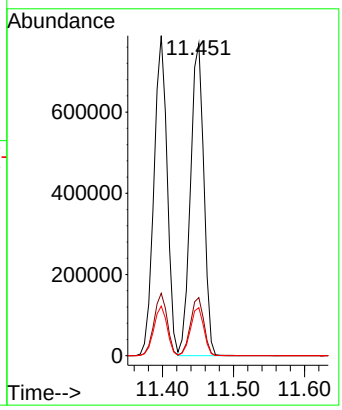


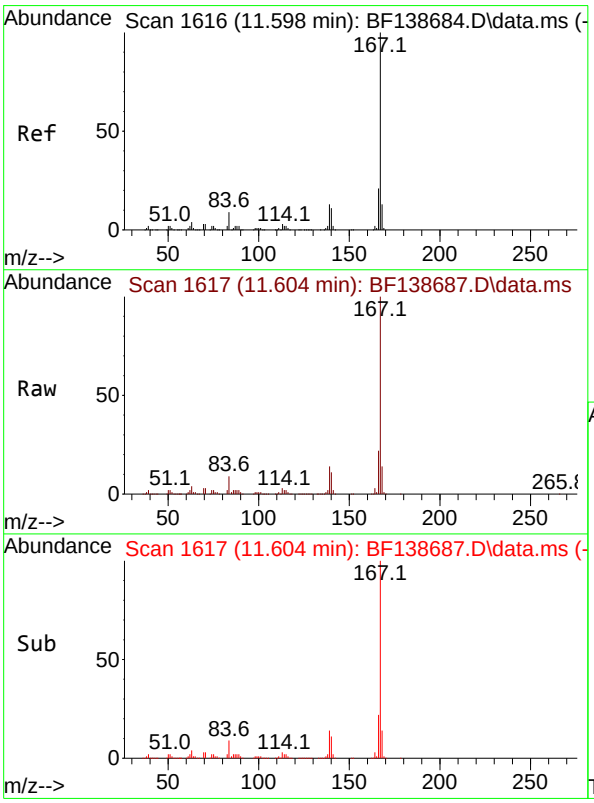

#72
Anthracene
Concen: 73.356 ng
RT: 11.451 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

Tgt Ion:178 Resp: 1005219

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.6 | 14.9 | 22.3 |
| 179 | 15.4 | 12.4 | 18.6 |

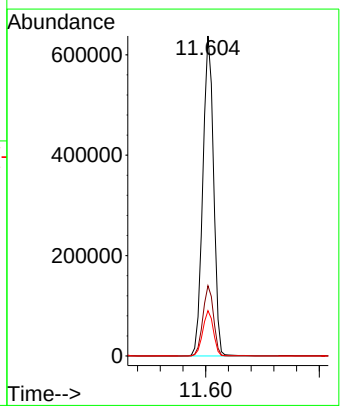


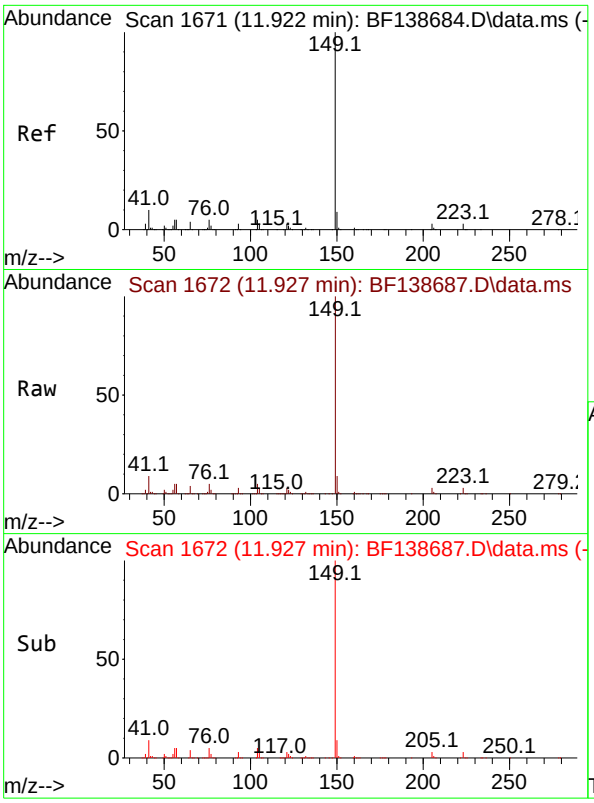




#73
Carbazole
Concen: 70.750 ng
RT: 11.604 min Scan# 1617
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:167 Resp: 836447

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 22.0 | 17.2 | 25.8 |
| 139 | 14.1 | 10.6 | 16.0 |



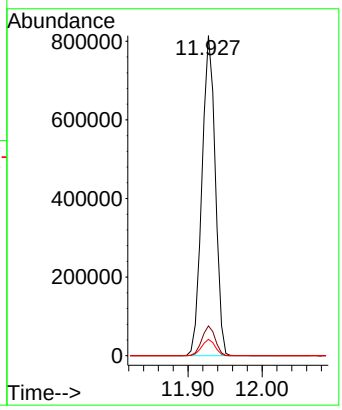


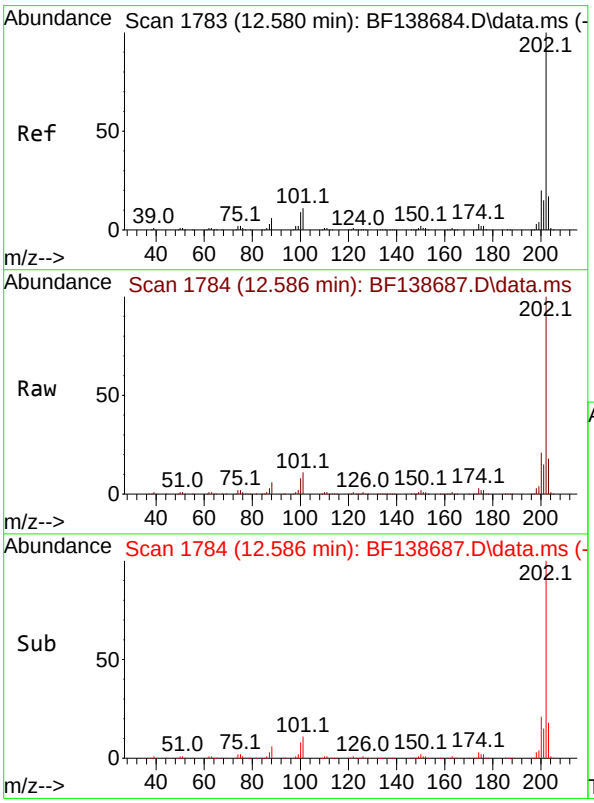

#74
Di-n-butylphthalate
Concen: 76.505 ng
RT: 11.927 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

Tgt Ion:149 Resp: 1016790

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 9.3 | 7.4 | 11.0 |
| 104 | 5.1 | 4.1 | 6.1 |

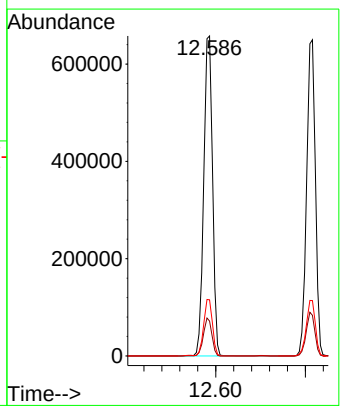


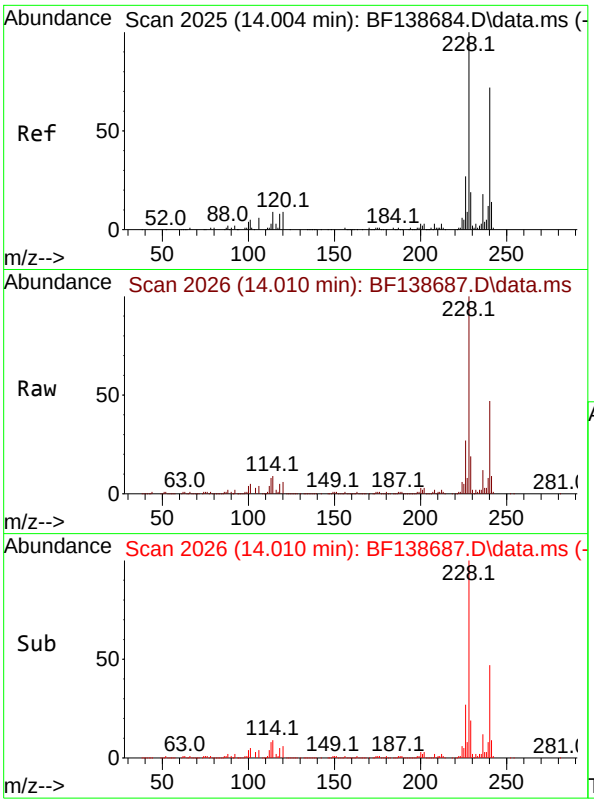




#75
Fluoranthene
Concen: 68.843 ng
RT: 12.586 min Scan# 1784
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:202 Resp: 893988

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 10.9 | 0.0 | 31.2 |
| 203 | 17.6 | 0.0 | 37.3 |



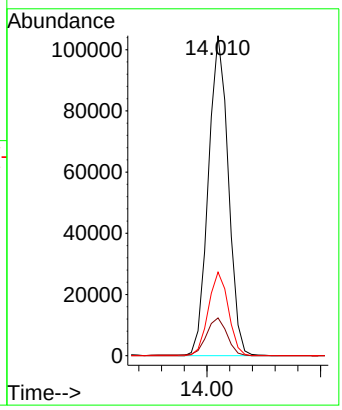


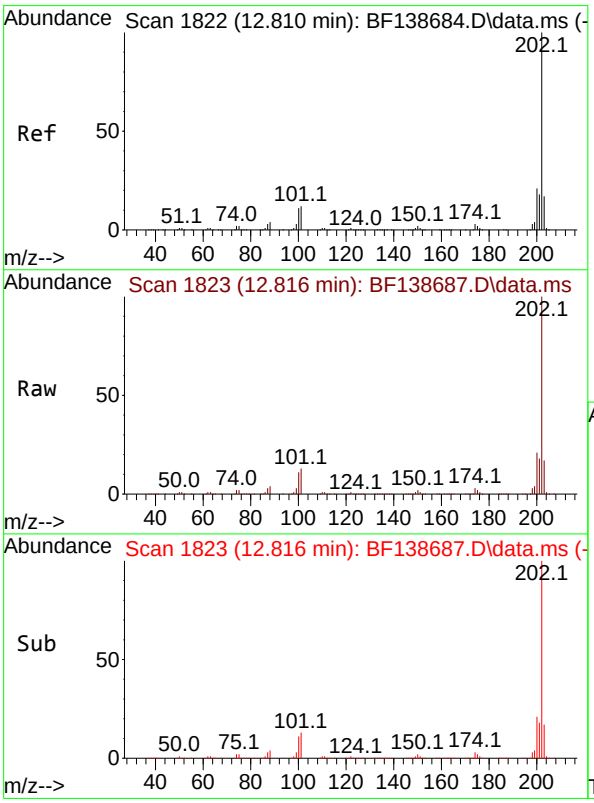

#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.010 min Scan# 2(
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

Tgt Ion:240 Resp: 127279

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 11.8 | 10.2 | 15.4 |
| 236 | 26.1 | 19.8 | 29.8 |

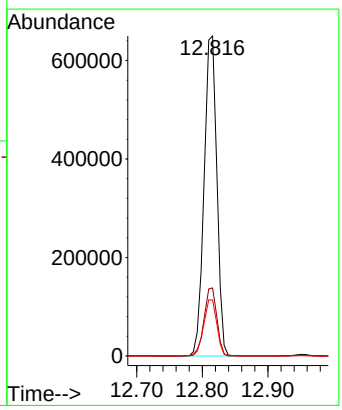


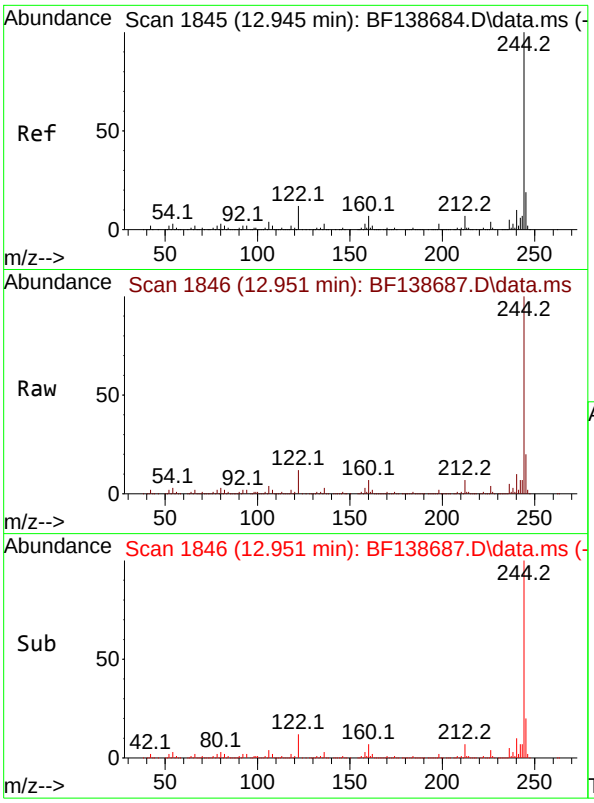




#78
Pyrene
Concen: 73.618 ng
RT: 12.816 min Scan# 1823
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:202 Resp: 882216

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.2 | 16.8 | 25.2 |
| 203 | 17.5 | 13.8 | 20.6 |



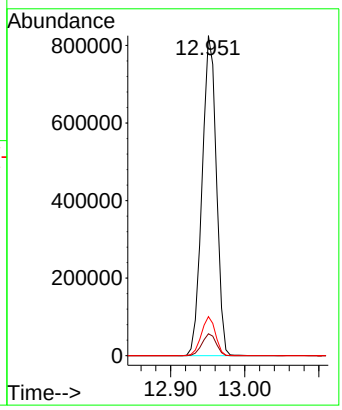


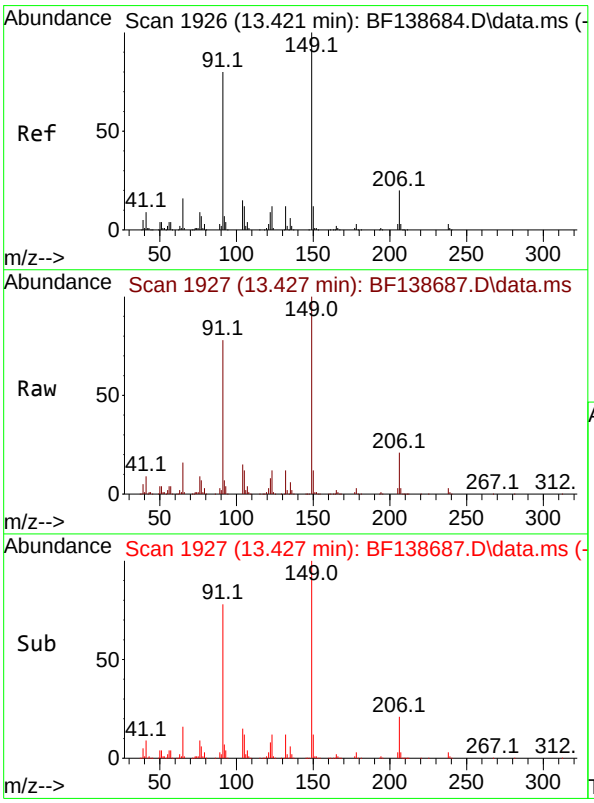

#79
Terphenyl-d14
Concen: 145.087 ng
RT: 12.951 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

Tgt Ion:244 Resp: 1102959

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 6.9 | 5.4 | 8.2 |
| 122 | 12.2 | 9.6 | 14.4 |

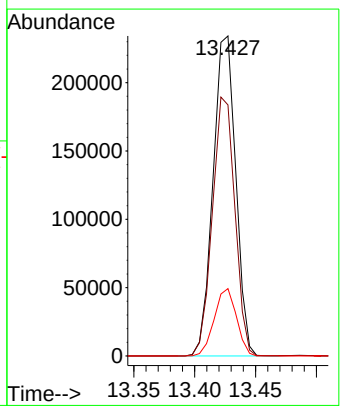


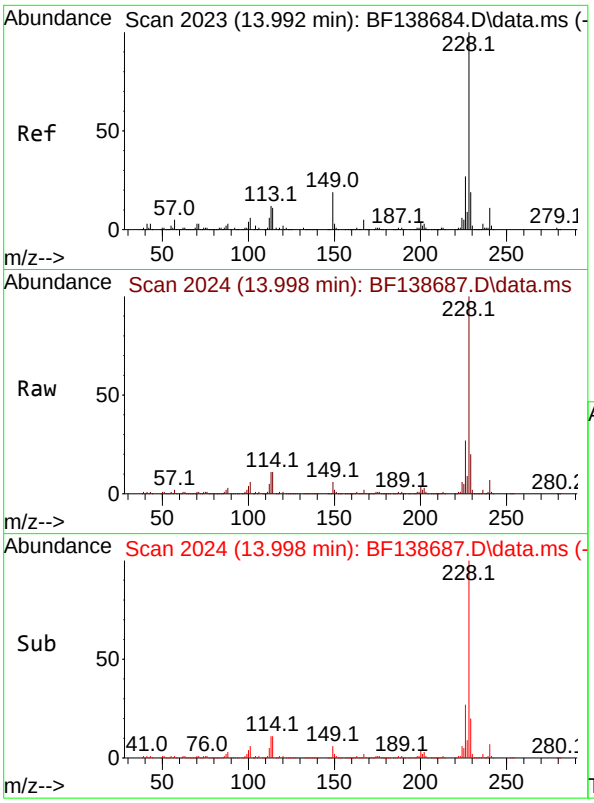




#80
Butylbenzylphthalate
Concen: 79.340 ng
RT: 13.427 min Scan# 1927
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:149 Resp: 304470

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 91 | 78.4 | 63.7 | 95.5 |
| 206 | 21.1 | 16.2 | 24.2 |



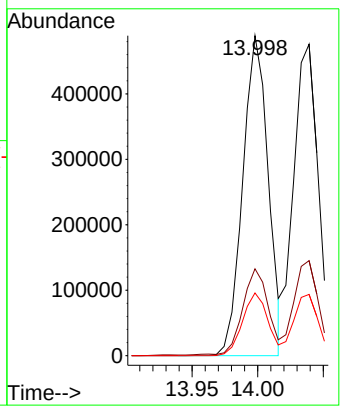


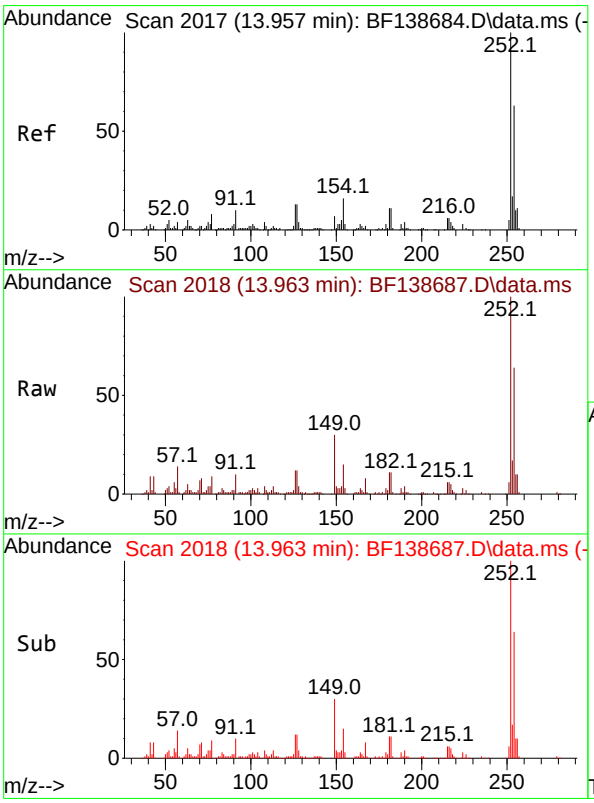

#81
Benzo(a)anthracene
Concen: 75.198 ng
RT: 13.998 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

Tgt Ion:228 Resp: 659091

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.1 | 22.1 | 33.1 |
| 229 | 19.6 | 15.4 | 23.0 |

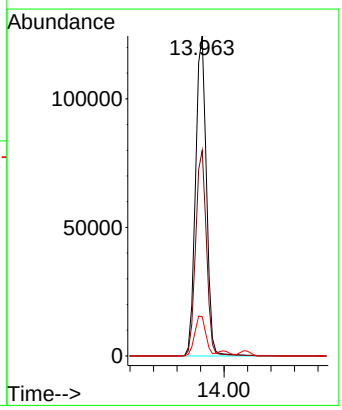


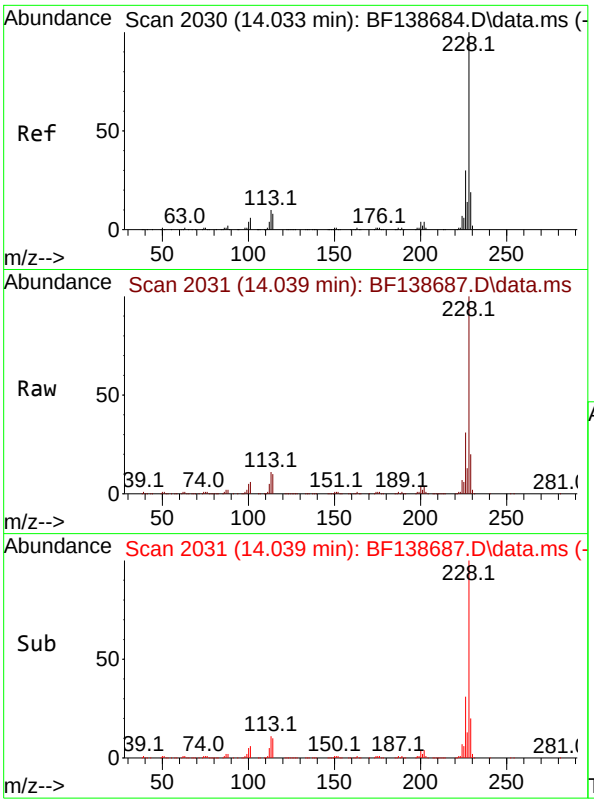




#82
3,3'-Dichlorobenzidine
Concen: 71.192 ng
RT: 13.963 min Scan# 2018
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:252 Resp: 159678

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 64.2 | 50.8 | 76.2 |
| 126 | 12.3 | 10.2 | 15.2 |



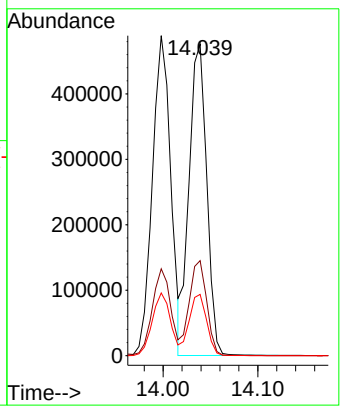


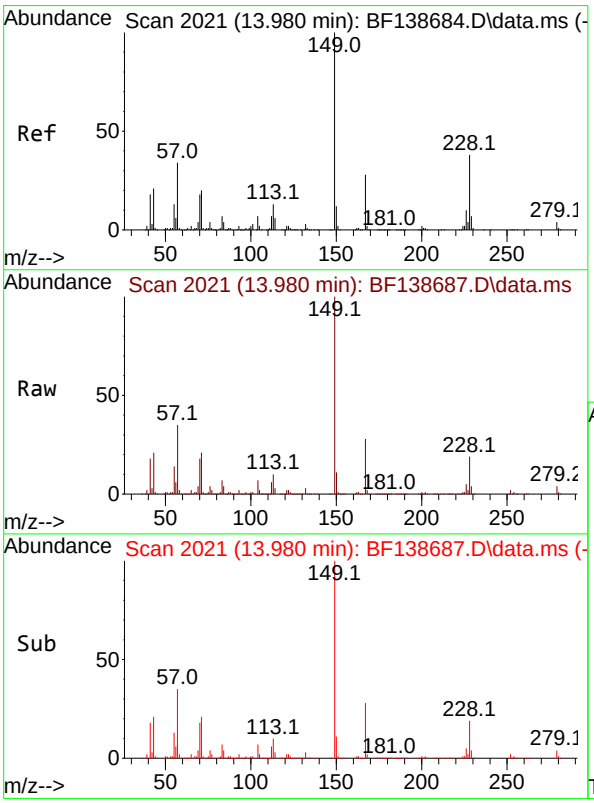

#83
Chrysene
Concen: 78.129 ng
RT: 14.039 min Scan# 2(
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

Tgt Ion:228 Resp: 617804

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.5 | 23.7 | 35.5 |
| 229 | 19.7 | 15.0 | 22.6 |

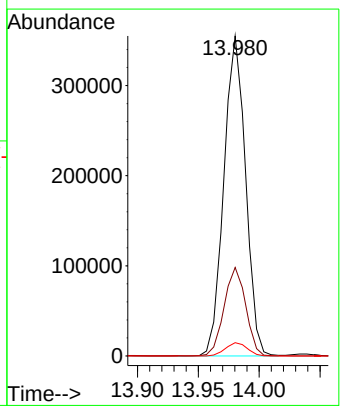


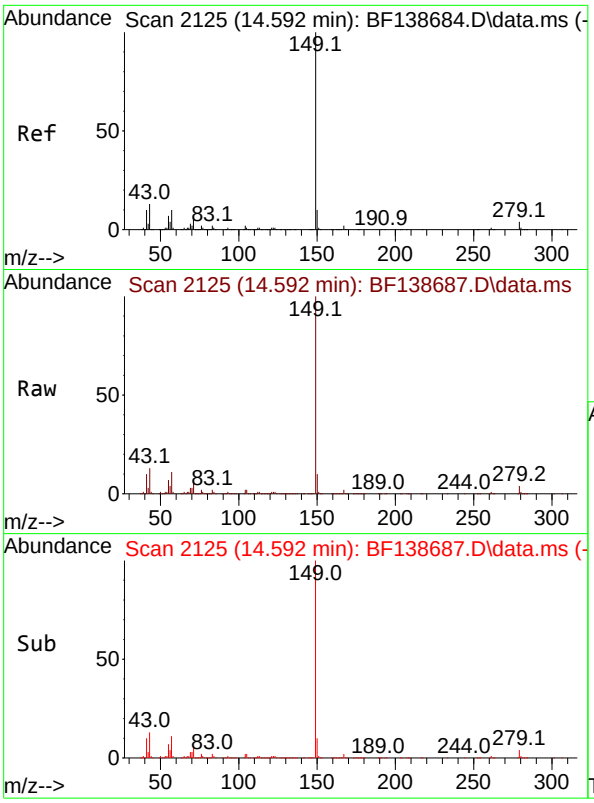




#84
Bis(2-ethylhexyl)phthalate
Concen: 78.423 ng
RT: 13.980 min Scan# 2021
Delta R.T. 0.000 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:149 Resp: 440693

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 27.7 | 22.2 | 33.4 |
| 279 | 4.1 | 3.4 | 5.0 |



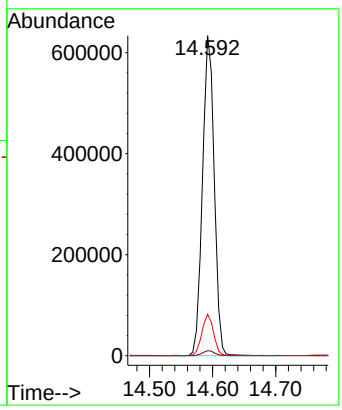


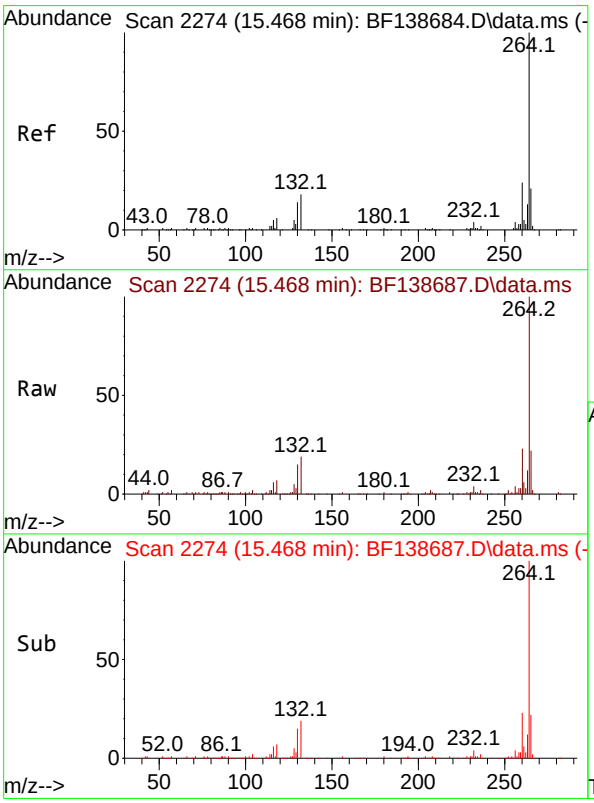

#85
Di-n-octyl phthalate
Concen: 78.597 ng
RT: 14.592 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

Tgt Ion:149 Resp: 817161

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 1.6 | 1.4 | 2.0 |
| 43 | 12.8 | 10.4 | 15.6 |

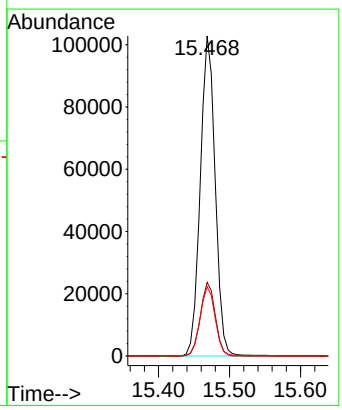


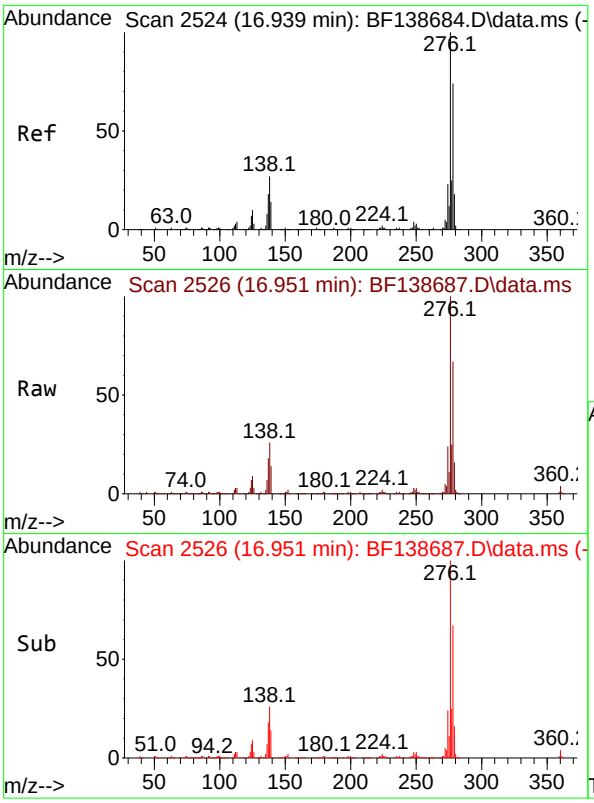




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.468 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:264 Resp: 150274

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.0 | 19.0 | 28.6 |
| 265 | 21.7 | 17.0 | 25.6 |



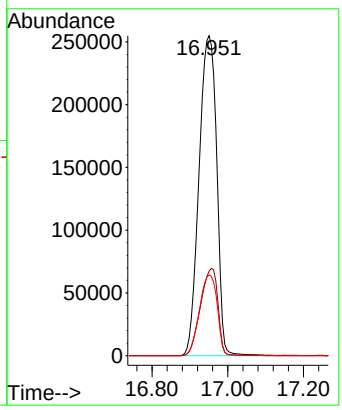


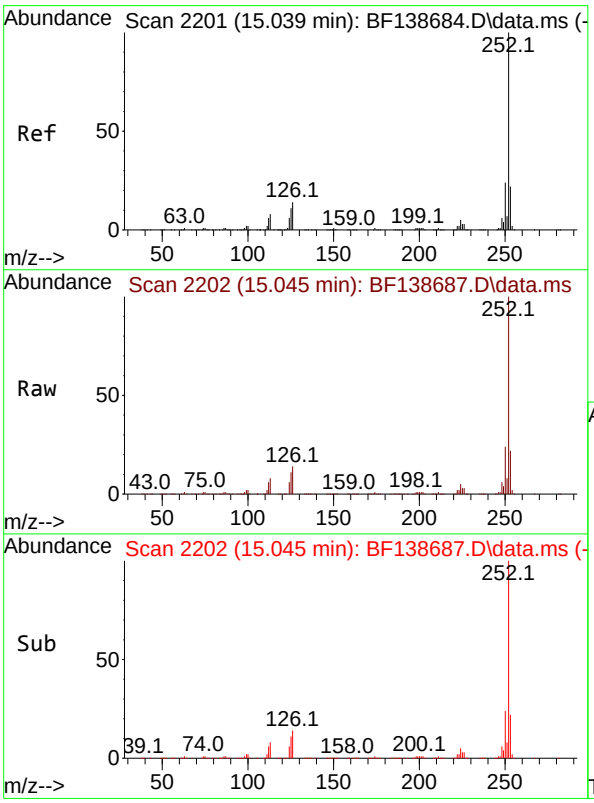

#87
Indeno(1,2,3-cd)pyrene
Concen: 76.833 ng
RT: 16.951 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

Tgt Ion:276 Resp: 827423

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 26.8 | 21.8 | 32.8 |
| 277 | 25.3 | 20.6 | 30.8 |

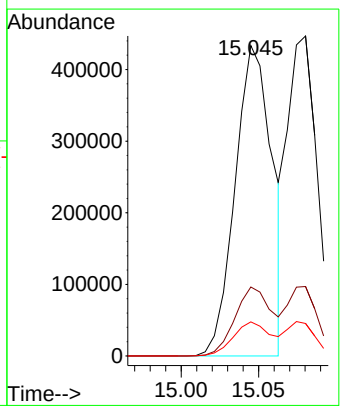


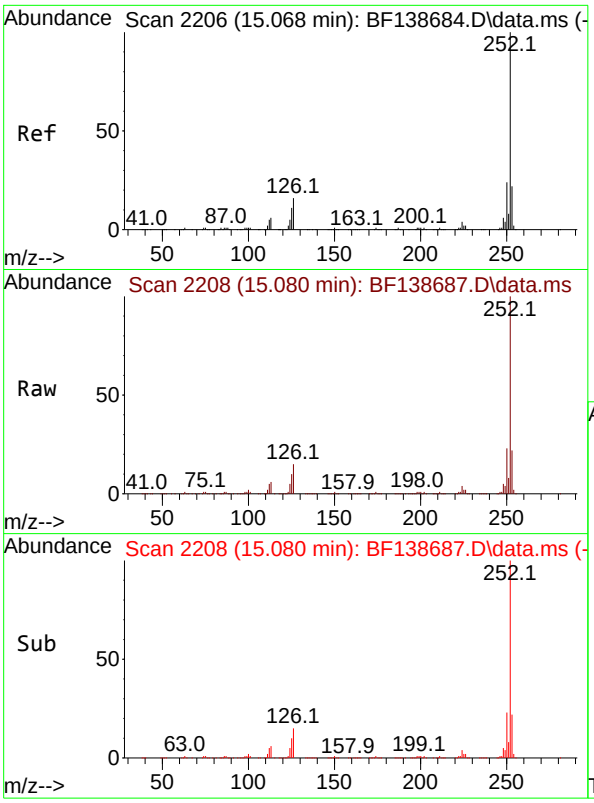




#88
Benzo(b)fluoranthene
Concen: 77.422 ng
RT: 15.045 min Scan# 2202
Delta R.T. 0.006 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:252 Resp: 721224

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.2 | 17.5 | 26.3 |
| 125 | 11.0 | 8.9 | 13.3 |



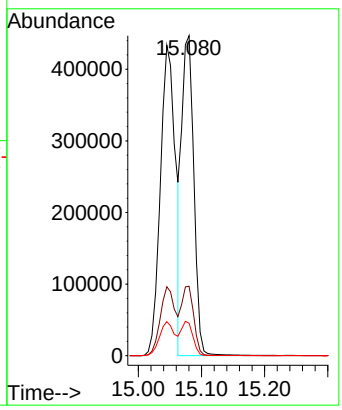


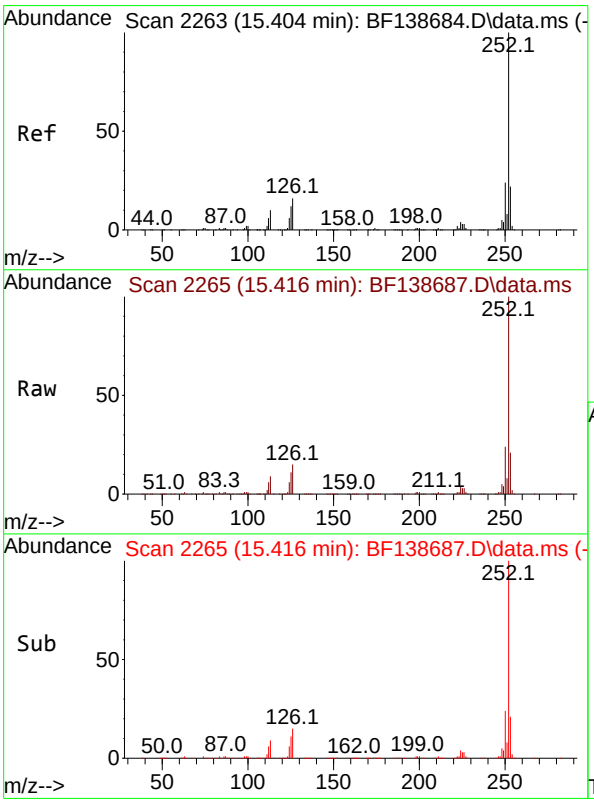

#89
Benzo(k)fluoranthene
Concen: 73.959 ng
RT: 15.080 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

Tgt Ion:252 Resp: 596517

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.7 | 17.4 | 26.0 |
| 125 | 10.1 | 8.6 | 13.0 |

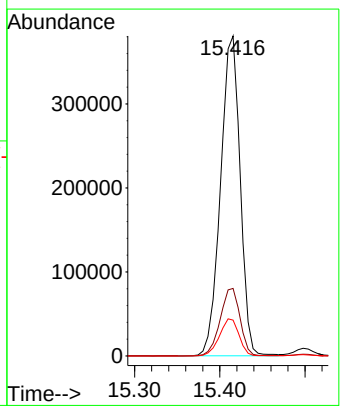


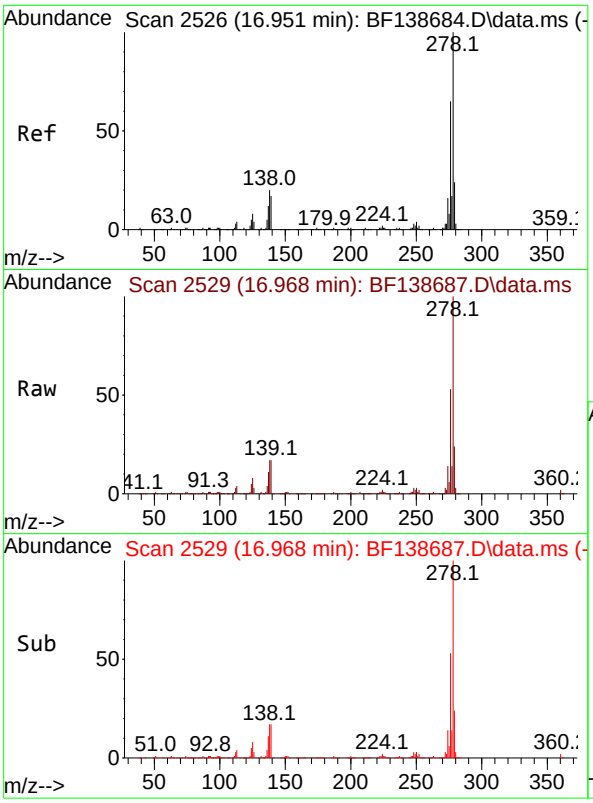




#90
Benzo(a)pyrene
Concen: 77.779 ng
RT: 15.416 min Scan# 2265
Delta R.T. 0.012 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:252 Resp: 609452

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.1 | 17.3 | 25.9 |
| 125 | 11.2 | 9.5 | 14.3 |



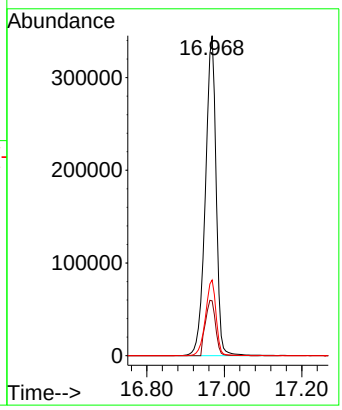


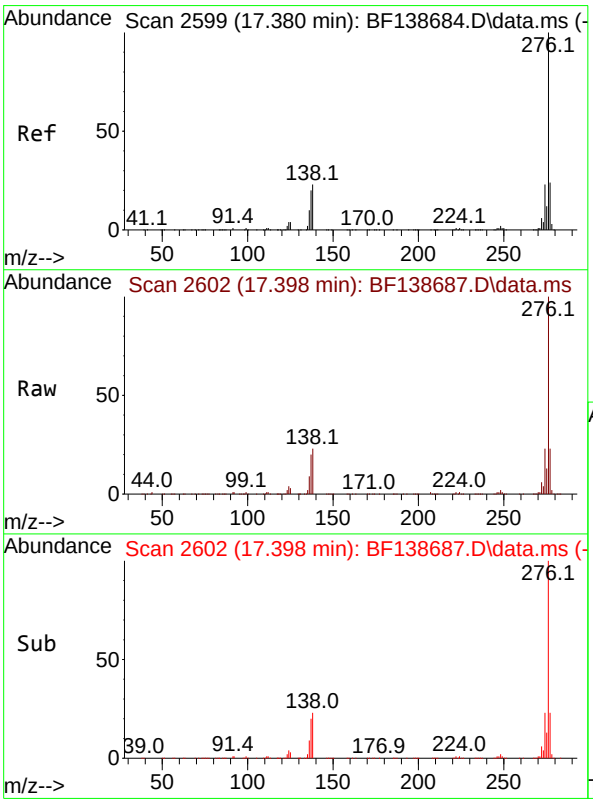

#91
Dibenzo(a,h)anthracene
Concen: 75.184 ng
RT: 16.968 min Scan# 2
Delta R.T. 0.018 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

Tgt Ion:278 Resp: 664634

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 17.1 | 14.0 | 21.0 |
| 279 | 23.7 | 19.0 | 28.4 |

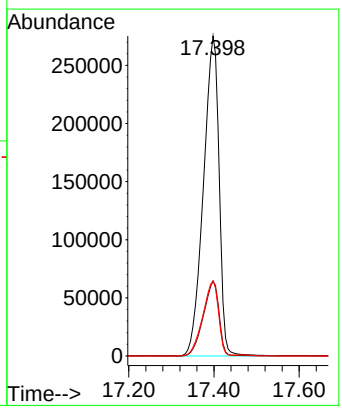



#92
Benzo(g,h,i)perylene
Concen: 76.589 ng
RT: 17.398 min Scan# 2602
Delta R.T. 0.018 min
Lab File: BF138687.D
Acq: 30 Jul 2024 16:29

Tgt Ion:276 Resp: 702583

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 23.4 | 19.0 | 28.4 |
| 138 | 23.5 | 18.5 | 27.7 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138688.D
Acq On : 30 Jul 2024 17:55
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF073024

Quant Time: Jul 30 18:15:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.845 | 152 | 81804 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 8.128 | 136 | 316107 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 9.881 | 164 | 164062 | 20.000 | ng | 0.00 |
| 64) Phenanthrene-d10 | 11.369 | 188 | 252048 | 20.000 | ng | 0.00 |
| 76) Chrysene-d12 | 14.004 | 240 | 134464 | 20.000 | ng | 0.00 |
| 86) Perylene-d12 | 15.468 | 264 | 171097 | 20.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.469 | 112 | 414257 | 78.171 | ng | 0.00 |
| 7) Phenol-d6 | 6.487 | 99 | 551968 | 77.578 | ng | 0.00 |
| 23) Nitrobenzene-d5 | 7.410 | 82 | 519984 | 80.424 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.675 | 330 | 104018 | 77.401 | ng | 0.00 |
| 45) 2-Fluorobiphenyl | 9.204 | 172 | 857165 | 78.500 | ng | 0.00 |
| 79) Terphenyl-d14 | 12.951 | 244 | 589459 | 73.396 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.581 | 88 | 92359 | 39.808 | ng | 99 |
| 3) Pyridine | 3.340 | 79 | 227413 | 40.463 | ng | 97 |
| 4) n-Nitrosodimethylamine | 3.299 | 42 | 131855 | 39.391 | ng | 100 |
| 6) Aniline | 6.510 | 93 | 255062 | 40.197 | ng | 90 |
| 8) 2-Chlorophenol | 6.634 | 128 | 216863 | 38.895 | ng | 98 |
| 9) Benzaldehyde | 6.398 | 77 | 161636 | 37.898 | ng | 99 |
| 10) Phenol | 6.498 | 94 | 286738 | 38.277 | ng | 97 |
| 11) bis(2-Chloroethyl)ether | 6.587 | 93 | 221556 | 38.433 | ng | 100 |
| 12) 1,3-Dichlorobenzene | 6.787 | 146 | 241485 | 38.692 | ng | 99 |
| 13) 1,4-Dichlorobenzene | 6.863 | 146 | 243549 | 38.668 | ng | 98 |
| 14) 1,2-Dichlorobenzene | 7.016 | 146 | 226577 | 38.492 | ng | 99 |
| 15) Benzyl Alcohol | 6.992 | 79 | 200599 | 39.118 | ng | 99 |
| 16) 2,2'-oxybis(1-Chloropr... | 7.122 | 45 | 378258 | 38.127 | ng | 99 |
| 17) 2-Methylphenol | 7.104 | 107 | 177941 | 38.649 | ng | 98 |
| 18) Hexachloroethane | 7.357 | 117 | 93375 | 39.384 | ng | 99 |
| 19) n-Nitroso-di-n-propyla... | 7.263 | 70 | 160901 | 37.442 | ng | 98 |
| 20) 3+4-Methylphenols | 7.257 | 107 | 221138 | 37.436 | ng | 97 |
| 22) Acetophenone | 7.257 | 105 | 302593 | 39.095 | ng | 99 |
| 24) Nitrobenzene | 7.434 | 77 | 262386 | 39.882 | ng | 97 |
| 25) Isophorone | 7.669 | 82 | 433596 | 39.275 | ng | 99 |
| 26) 2-Nitrophenol | 7.745 | 139 | 115113 | 40.668 | ng | 99 |
| 27) 2,4-Dimethylphenol | 7.787 | 122 | 136249 | 40.231 | ng | 99 |
| 28) bis(2-Chloroethoxy)met... | 7.875 | 93 | 265943 | 39.557 | ng | 99 |
| 29) 2,4-Dichlorophenol | 7.992 | 162 | 176541 | 40.567 | ng | 99 |
| 30) 1,2,4-Trichlorobenzene | 8.069 | 180 | 199132 | 39.651 | ng | 99 |
| 31) Naphthalene | 8.151 | 128 | 652780 | 39.232 | ng | 100 |
| 32) Benzoic acid | 7.916 | 122 | 110429 | 41.481 | ng | 98 |
| 33) 4-Chloroaniline | 8.204 | 127 | 223787 | 40.067 | ng | 99 |
| 34) Hexachlorobutadiene | 8.263 | 225 | 124022 | 40.772 | ng | 99 |
| 35) Caprolactam | 8.575 | 113 | 49818 | 38.365 | ng | 99 |
| 36) 4-Chloro-3-methylphenol | 8.686 | 107 | 194782 | 39.164 | ng | 99 |
| 37) 2-Methylnaphthalene | 8.839 | 142 | 408106 | 38.836 | ng | 100 |
| 38) 1-Methylnaphthalene | 8.939 | 142 | 398155 | 38.666 | ng | 98 |
| 40) 1,2,4,5-Tetrachloroben... | 9.004 | 216 | 184821 | 40.554 | ng | 99 |
| 41) Hexachlorocyclopentadiene | 8.986 | 237 | 46660 | 42.278 | ng | 99 |
| 43) 2,4,6-Trichlorophenol | 9.116 | 196 | 112217 | 40.384 | ng | 99 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138688.D
Acq On : 30 Jul 2024 17:55
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF073024

Quant Time: Jul 30 18:15:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

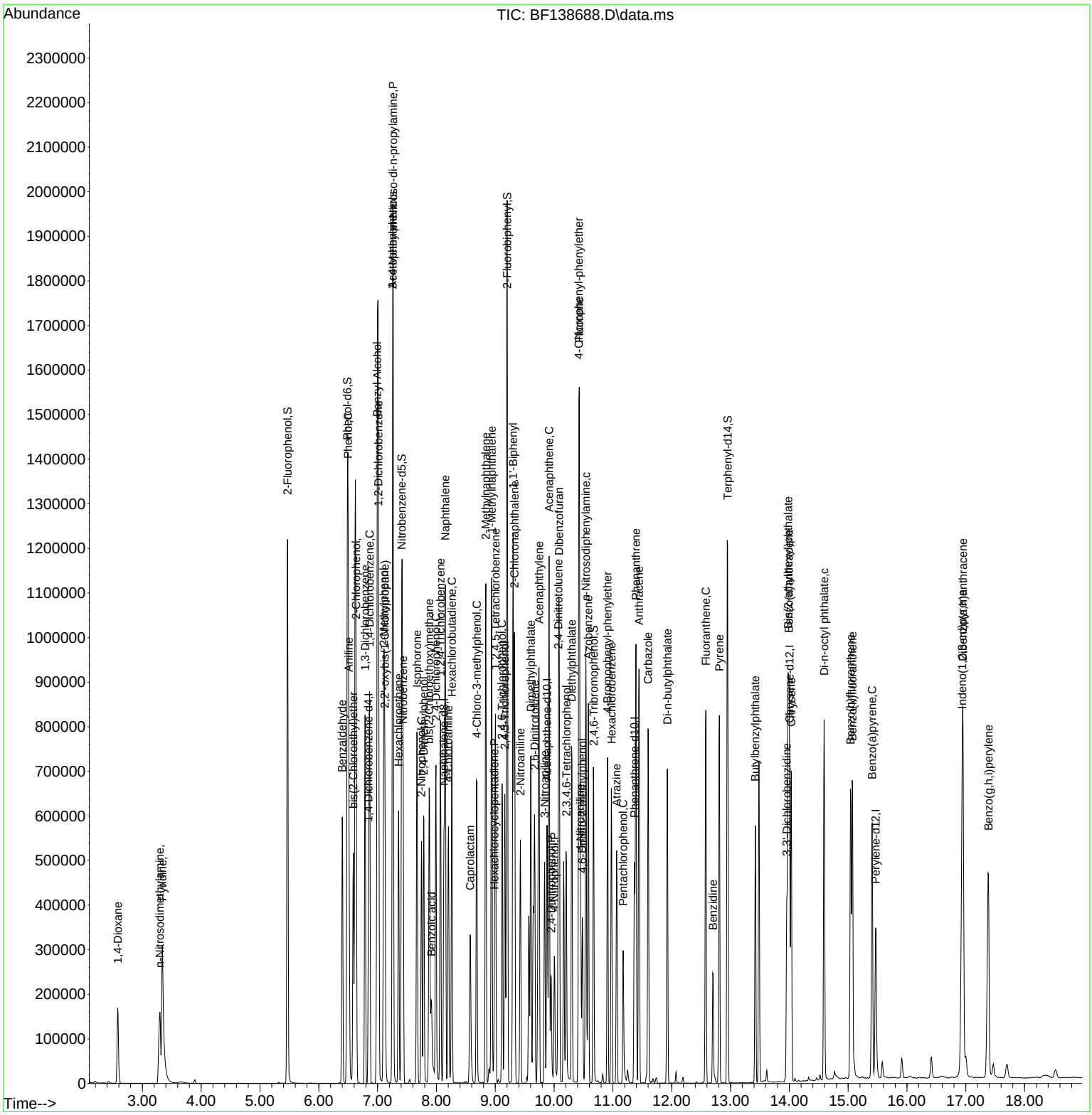
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 9.163 | 196 | 124581 | 41.011 | ng | 99 |
| 46) 1,1'-Biphenyl | 9.304 | 154 | 515966 | 40.156 | ng | 99 |
| 47) 2-Chloronaphthalene | 9.328 | 162 | 381923 | 39.966 | ng | 99 |
| 48) 2-Nitroaniline | 9.428 | 65 | 127985 | 39.505 | ng | 99 |
| 49) Acenaphthylene | 9.745 | 152 | 535427 | 39.504 | ng | 99 |
| 50) Dimethylphthalate | 9.604 | 163 | 403438 | 38.458 | ng | 99 |
| 51) 2,6-Dinitrotoluene | 9.669 | 165 | 94451 | 39.895 | ng | 98 |
| 52) Acenaphthene | 9.916 | 154 | 359484 | 39.456 | ng | 100 |
| 53) 3-Nitroaniline | 9.839 | 138 | 93752 | 38.306 | ng | 99 |
| 54) 2,4-Dinitrophenol | 9.951 | 184 | 42619 | 39.106 | ng | 97 |
| 55) Dibenzofuran | 10.086 | 168 | 501545 | 38.997 | ng | 100 |
| 56) 4-Nitrophenol | 10.004 | 139 | 57893 | 39.336 | ng | 98 |
| 57) 2,4-Dinitrotoluene | 10.075 | 165 | 116813 | 38.673 | ng | 97 |
| 58) Fluorene | 10.428 | 166 | 395954 | 38.661 | ng | 100 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.210 | 232 | 89831 | 38.680 | ng | 97 |
| 60) Diethylphthalate | 10.298 | 149 | 382418 | 38.447 | ng | 99 |
| 61) 4-Chlorophenyl-phenyle... | 10.422 | 204 | 196905 | 39.091 | ng | 99 |
| 62) 4-Nitroaniline | 10.451 | 138 | 89602 | 38.525 | ng | 99 |
| 63) Azobenzene | 10.580 | 77 | 426075 | 38.622 | ng | 99 |
| 65) 4,6-Dinitro-2-methylph... | 10.480 | 198 | 63542 | 41.323 | ng | 97 |
| 66) n-Nitrosodiphenylamine | 10.539 | 169 | 319562 | 40.561 | ng | 100 |
| 67) 4-Bromophenyl-phenylether | 10.910 | 248 | 110219 | 40.390 | ng | 99 |
| 68) Hexachlorobenzene | 10.975 | 284 | 113117 | 40.147 | ng | 99 |
| 69) Atrazine | 11.063 | 200 | 80604 | 39.654 | ng | 98 |
| 70) Pentachlorophenol | 11.175 | 266 | 51801 | 40.788 | ng | 96 |
| 71) Phenanthrene | 11.392 | 178 | 506626 | 39.036 | ng | 100 |
| 72) Anthracene | 11.445 | 178 | 496297 | 38.817 | ng | 99 |
| 73) Carbazole | 11.598 | 167 | 425187 | 38.546 | ng | 100 |
| 74) Di-n-butylphthalate | 11.927 | 149 | 496140 | 40.010 | ng | 100 |
| 75) Fluoranthene | 12.580 | 202 | 463445 | 38.250 | ng | 100 |
| 77) Benzidine | 12.704 | 184 | 132396 | 41.166 | ng | 98 |
| 78) Pyrene | 12.810 | 202 | 467254 | 36.907 | ng | 100 |
| 80) Butylbenzylphthalate | 13.421 | 149 | 171996 | 42.425 | ng | 99 |
| 81) Benzo(a)anthracene | 13.992 | 228 | 379585 | 40.994 | ng | 99 |
| 82) 3,3'-Dichlorobenzidine | 13.957 | 252 | 104638 | 44.160 | ng | 100 |
| 83) Chrysene | 14.033 | 228 | 328373 | 39.308 | ng | 99 |
| 84) Bis(2-ethylhexyl)phtha... | 13.980 | 149 | 266678 | 44.921 | ng | 99 |
| 85) Di-n-octyl phthalate | 14.592 | 149 | 485296 | 44.183 | ng | 100 |
| 87) Indeno(1,2,3-cd)pyrene | 16.939 | 276 | 483878 | 39.463 | ng | 99 |
| 88) Benzo(b)fluoranthene | 15.039 | 252 | 404868 | 38.172 | ng | 99 |
| 89) Benzo(k)fluoranthene | 15.074 | 252 | 352910 | 38.430 | ng | 99 |
| 90) Benzo(a)pyrene | 15.410 | 252 | 356148 | 39.920 | ng | 98 |
| 91) Dibenzo(a,h)anthracene | 16.951 | 278 | 393430 | 39.089 | ng | 99 |
| 92) Benzo(g,h,i)perylene | 17.386 | 276 | 412115 | 39.457 | ng | 98 |

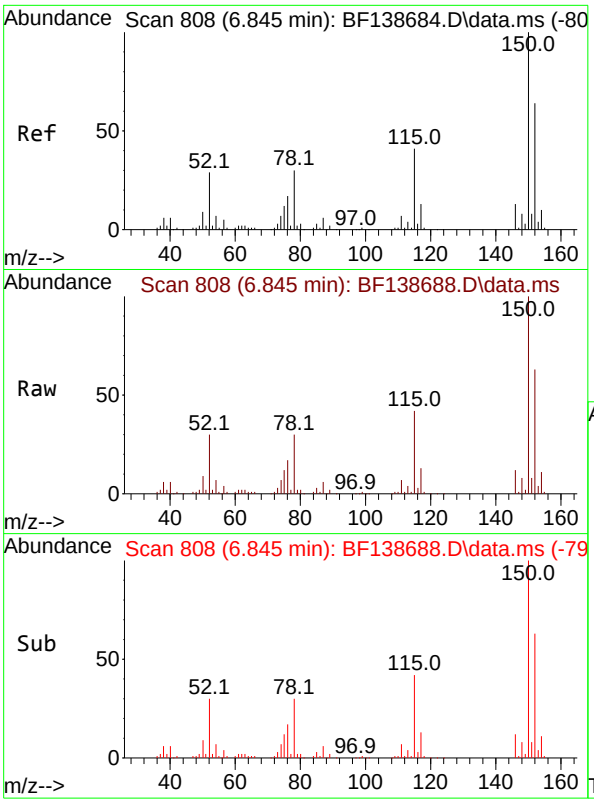
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138688.D
Acq On : 30 Jul 2024 17:55
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF073024

Quant Time: Jul 30 18:15:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration



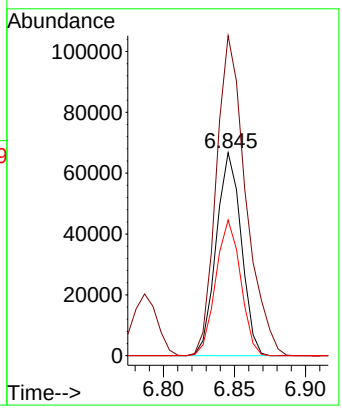


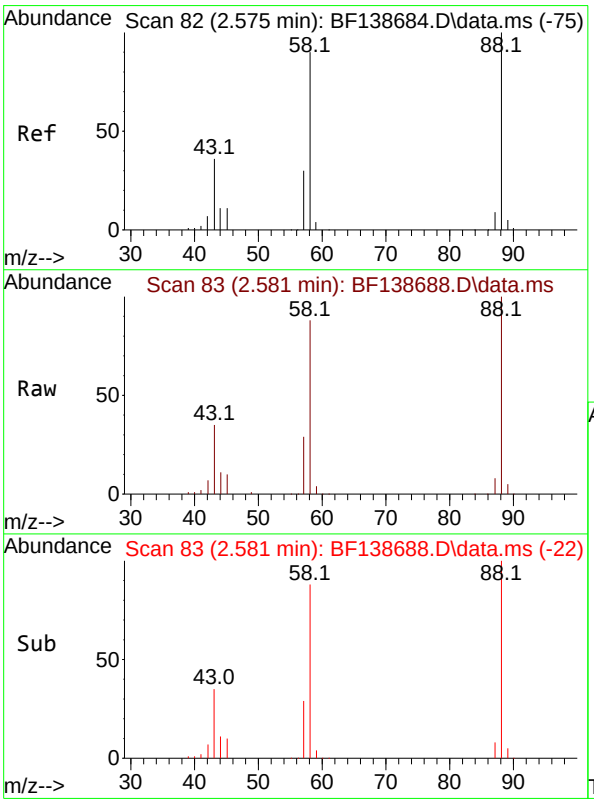

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.845 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF073024

Tgt Ion:152 Resp: 81804

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 157.6 | 126.0 | 189.0 |
| 115 | 66.8 | 51.7 | 77.5 |

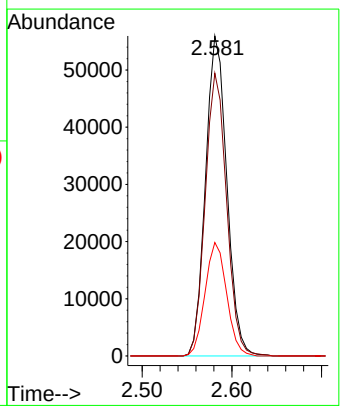


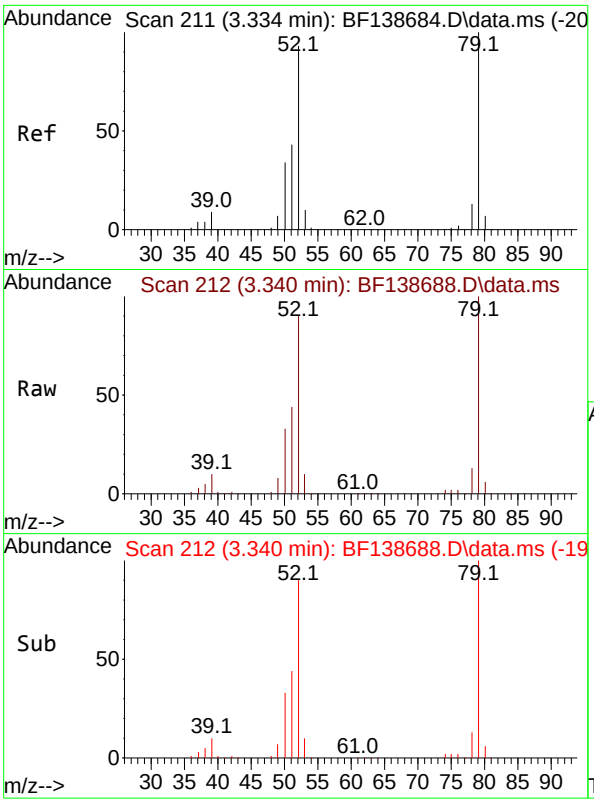




#2
1,4-Dioxane
Concen: 39.808 ng
RT: 2.581 min Scan# 83
Delta R.T. 0.006 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion: 88 Resp: 92359

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 88.5 | 71.6 | 107.4 |
| 43 | 35.9 | 28.7 | 43.1 |



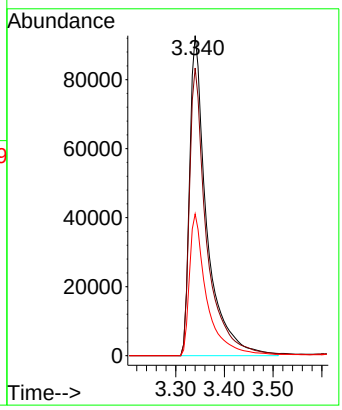


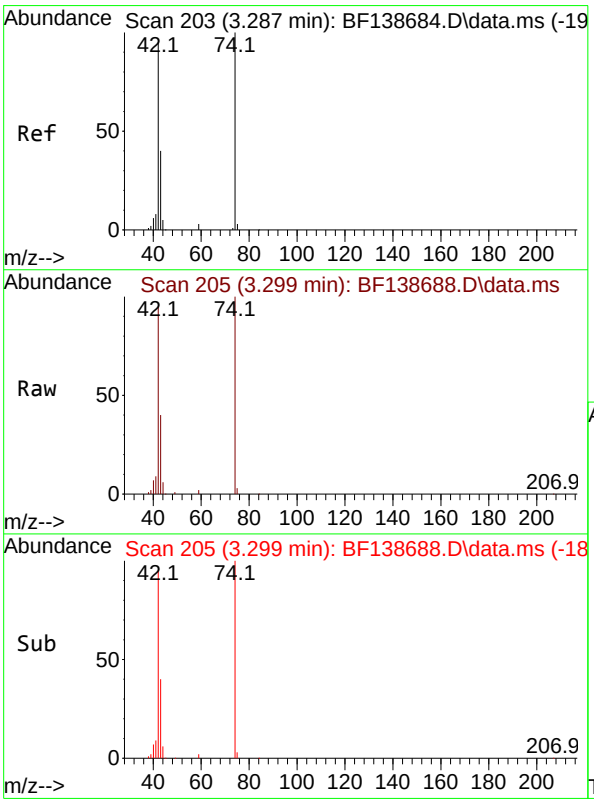

#3
Pyridine
Concen: 40.463 ng
RT: 3.340 min Scan# 21
Delta R.T. 0.006 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF073024

Tgt Ion: 79 Resp: 227413

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 89.9 | 74.7 | 112.1 |
| 51 | 44.3 | 34.6 | 51.8 |

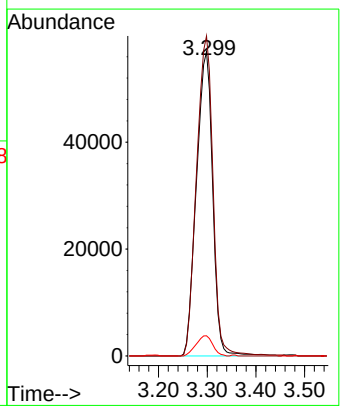


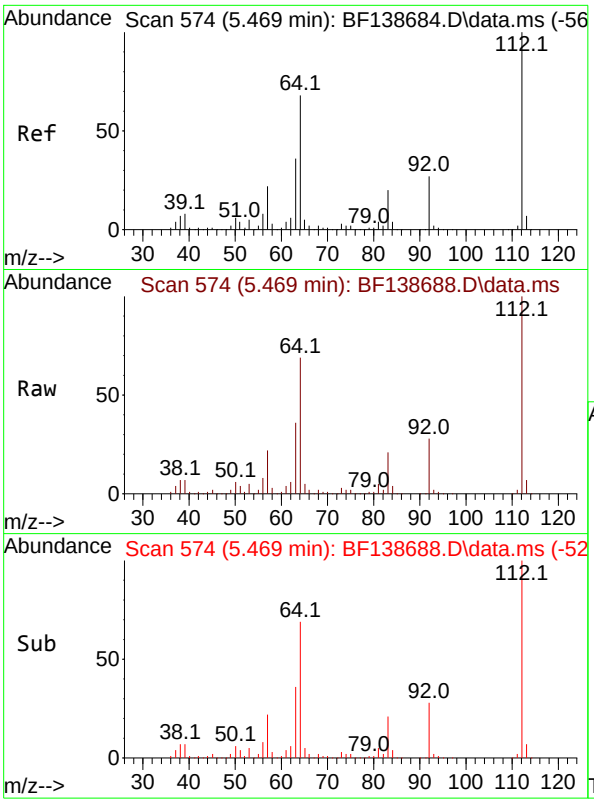




#4
n-Nitrosodimethylamine
Concen: 39.391 ng
RT: 3.299 min Scan# 205
Delta R.T. 0.012 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion: 42 Resp: 131855

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 105.1 | 84.2 | 126.4 |
| 44 | 6.6 | 4.9 | 7.3 |



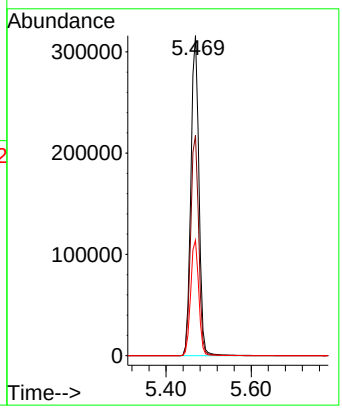


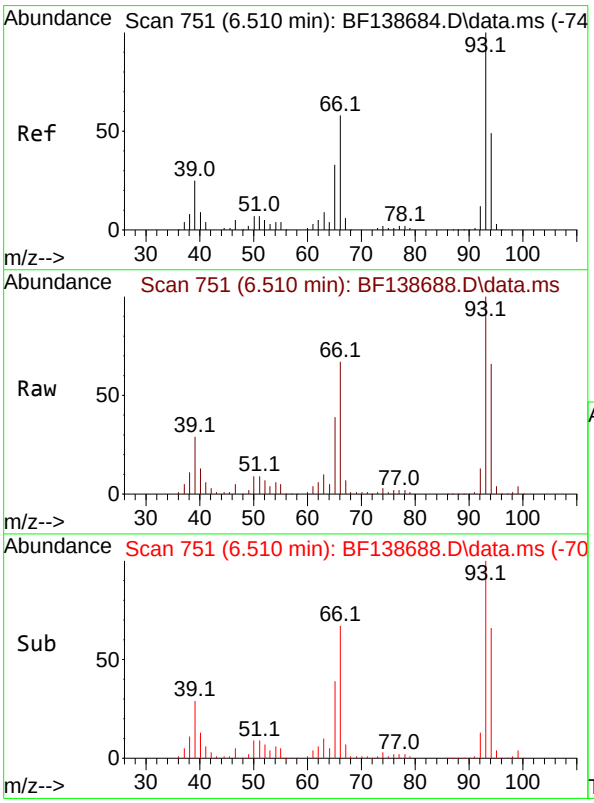

#5
2-Fluorophenol
Concen: 78.171 ng
RT: 5.469 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF073024

Tgt Ion:112 Resp: 414257

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 68.9 | 54.2 | 81.4 |
| 63 | 36.1 | 28.7 | 43.1 |

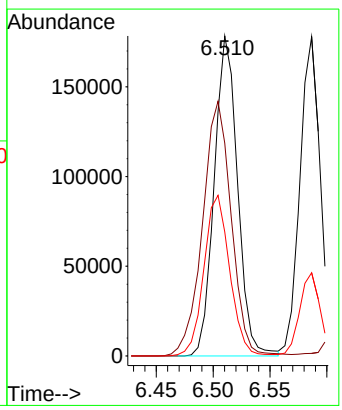


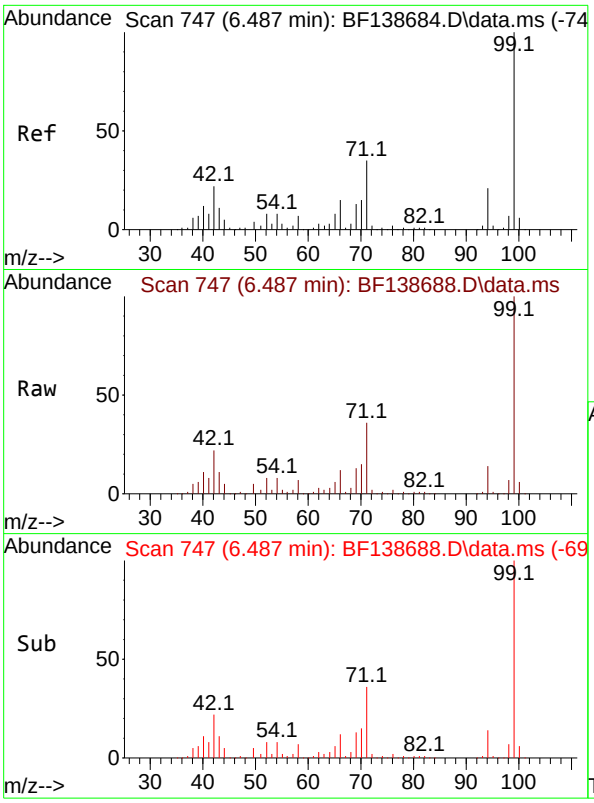




#6
Aniline
Concen: 40.197 ng
RT: 6.510 min Scan# 751
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion: 93 Resp: 255062

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 66 | 66.5 | 46.9 | 70.3 |
| 65 | 38.7 | 26.5 | 39.7 |



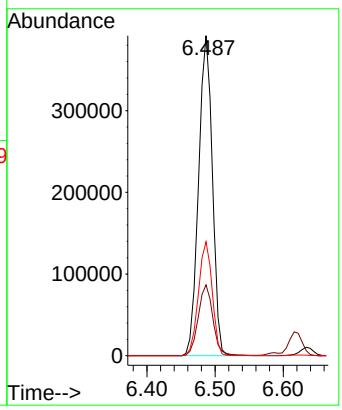


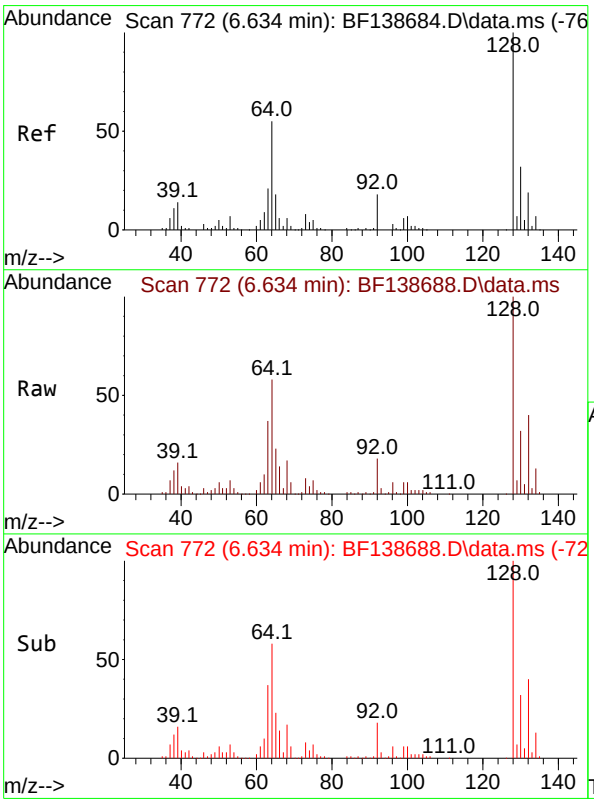

#7
Phenol-d6
Concen: 77.578 ng
RT: 6.487 min Scan# 74
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF073024

Tgt Ion: 99 Resp: 551968

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 22.2 | 17.4 | 26.0 |
| 71 | 35.6 | 28.1 | 42.1 |

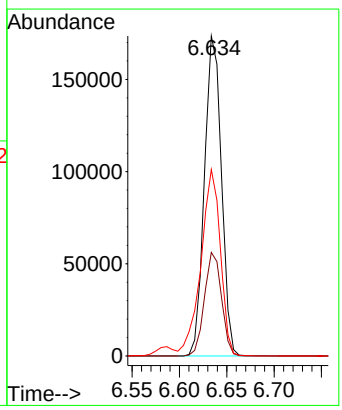


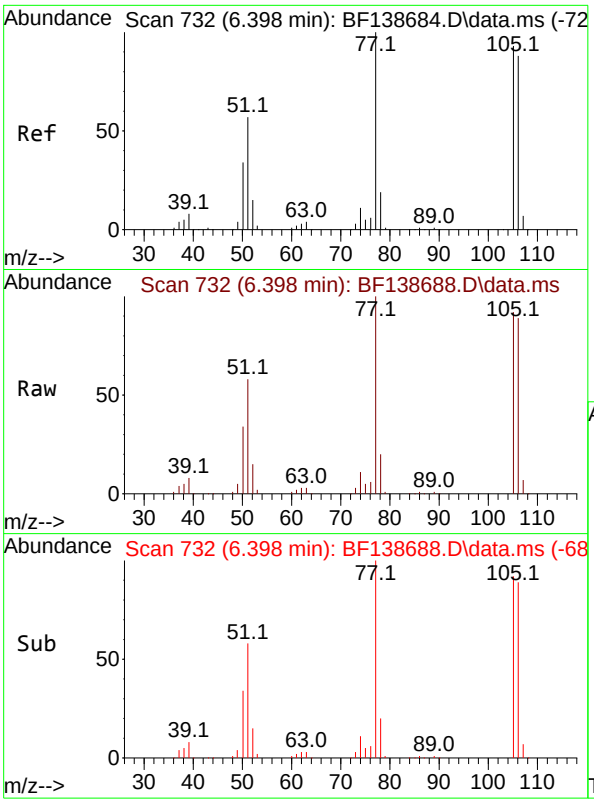




#8
2-Chlorophenol
Concen: 38.895 ng
RT: 6.634 min Scan# 772
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:128 Resp: 216863

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 130 | 32.4 | 12.0 | 52.0 |
| 64 | 58.3 | 36.3 | 76.3 |



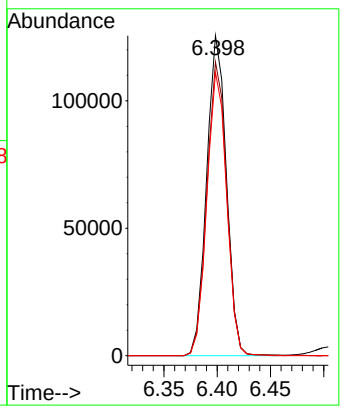


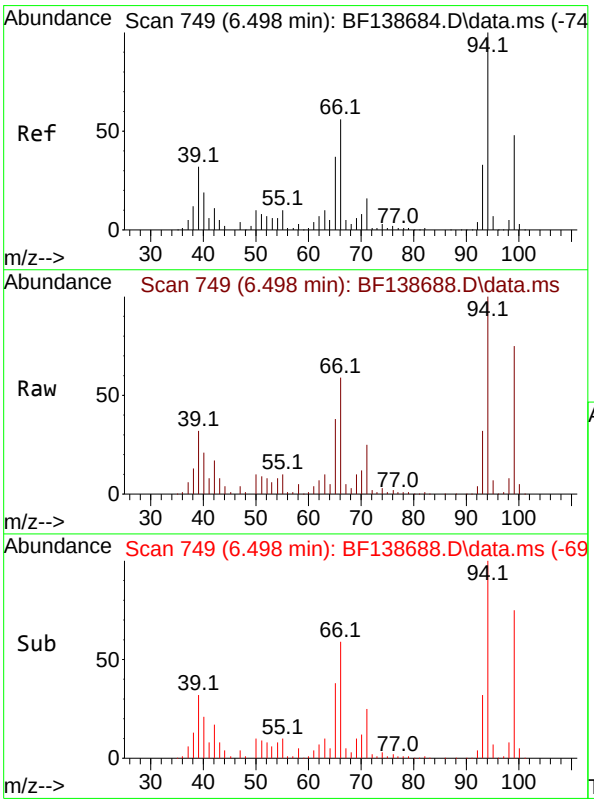

#9
Benzaldehyde
Concen: 37.898 ng
RT: 6.398 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF073024

Tgt Ion: 77 Resp: 161636

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 105 | 91.7 | 72.9 | 112.9 |
| 106 | 88.6 | 68.4 | 108.4 |

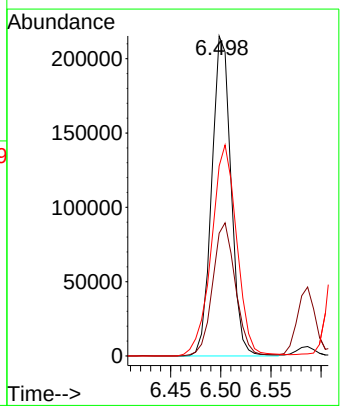


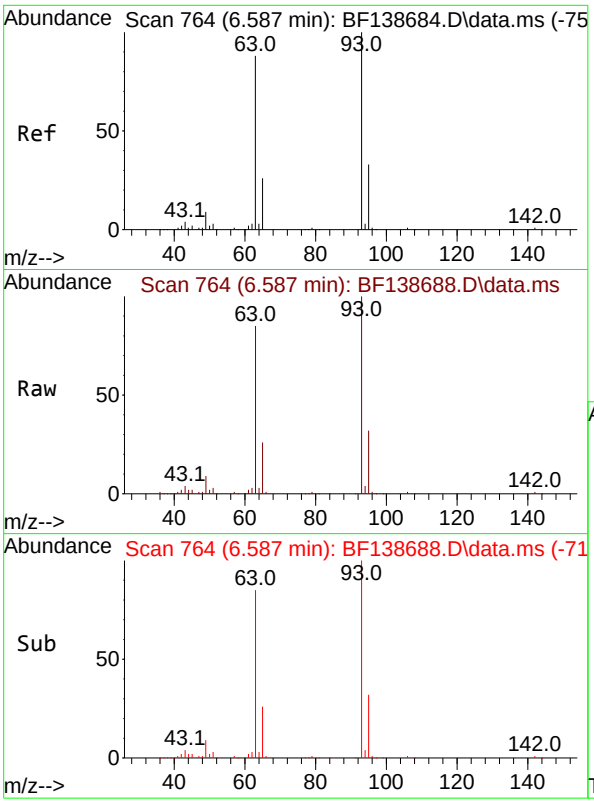




#10
Phenol
Concen: 38.277 ng
RT: 6.498 min Scan# 749
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion: 94 Resp: 286738

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 38.4 | 16.9 | 56.9 |
| 66 | 59.3 | 36.5 | 76.5 |



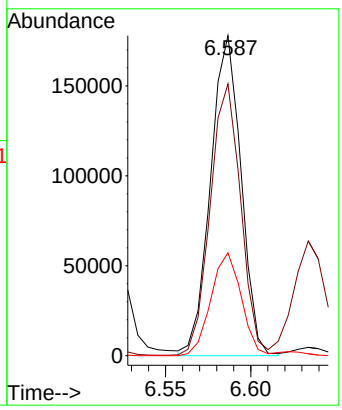


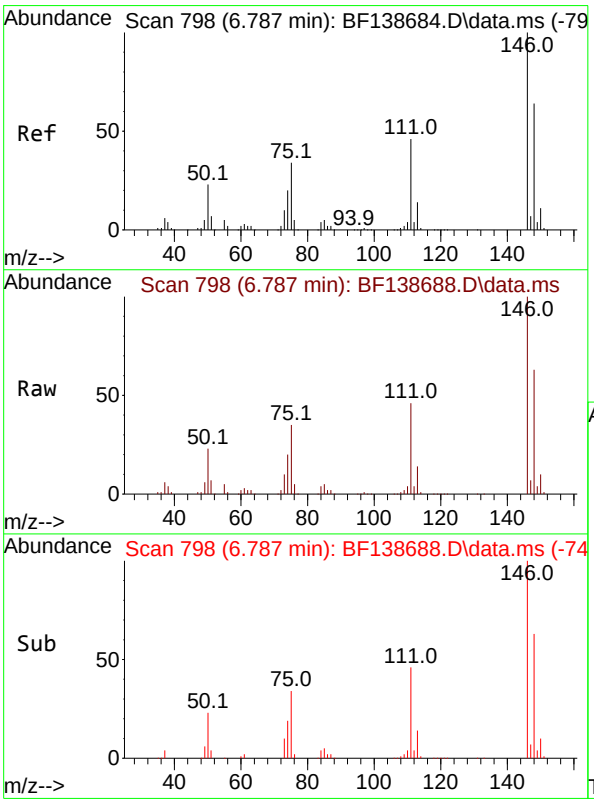

#11
bis(2-Chloroethyl)ether
Concen: 38.433 ng
RT: 6.587 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF073024

Tgt Ion: 93 Resp: 221556

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 85.0 | 65.3 | 105.3 |
| 95 | 32.2 | 12.4 | 52.4 |

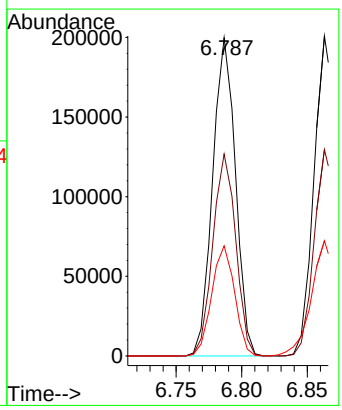


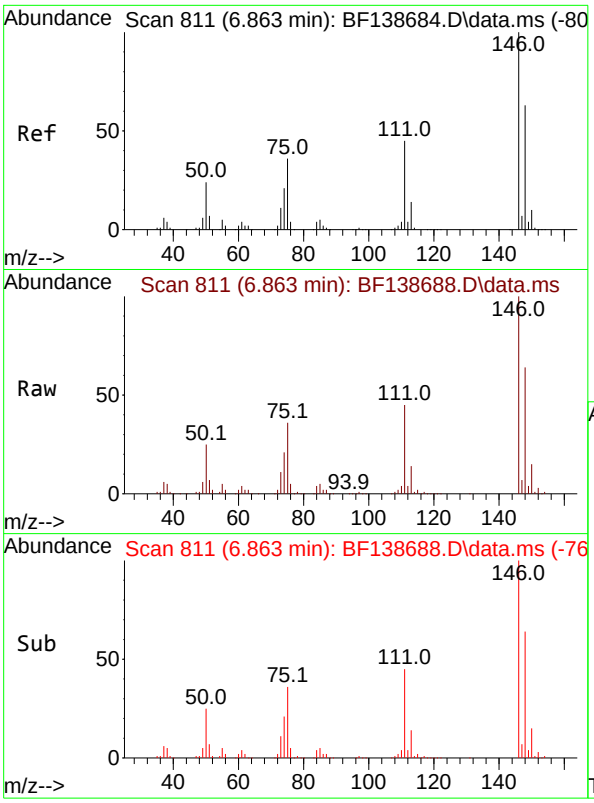




#12
1,3-Dichlorobenzene
Concen: 38.692 ng
RT: 6.787 min Scan# 798
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:146 Resp: 241485

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 63.5 | 51.2 | 76.8 |
| 75 | 34.6 | 27.4 | 41.2 |



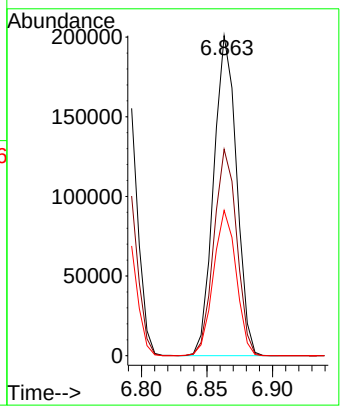


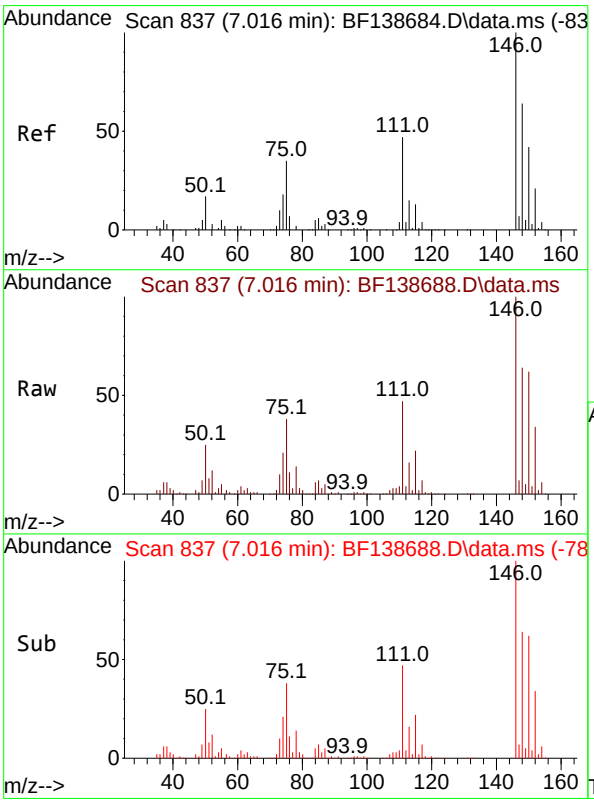

#13
1,4-Dichlorobenzene
Concen: 38.668 ng
RT: 6.863 min Scan# 81
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF073024

Tgt Ion:146 Resp: 243549

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 64.5 | 50.2 | 75.2 |
| 111 | 45.4 | 35.9 | 53.9 |

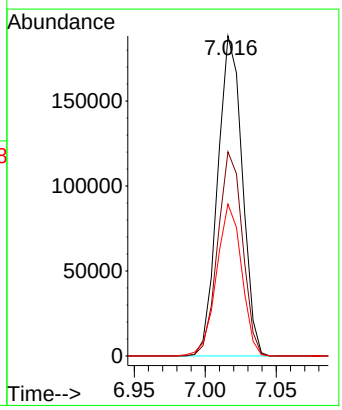


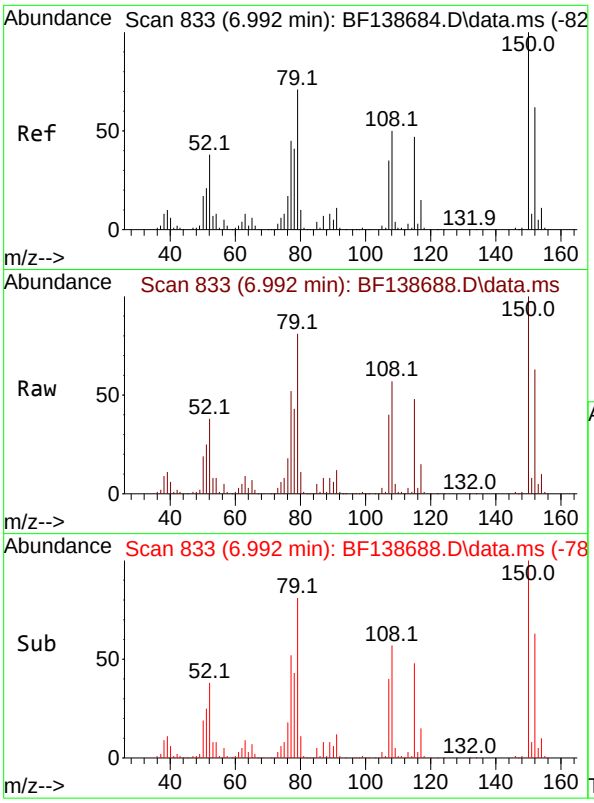




#14
1,2-Dichlorobenzene
Concen: 38.492 ng
RT: 7.016 min Scan# 837
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:146 Resp: 226577

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 63.8 | 50.8 | 76.2 |
| 111 | 47.4 | 37.4 | 56.2 |



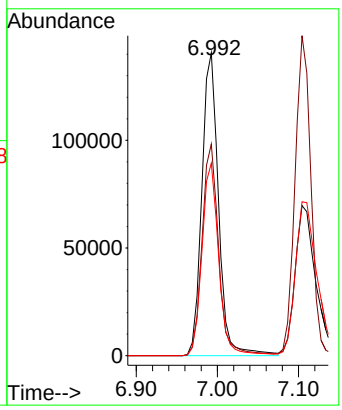


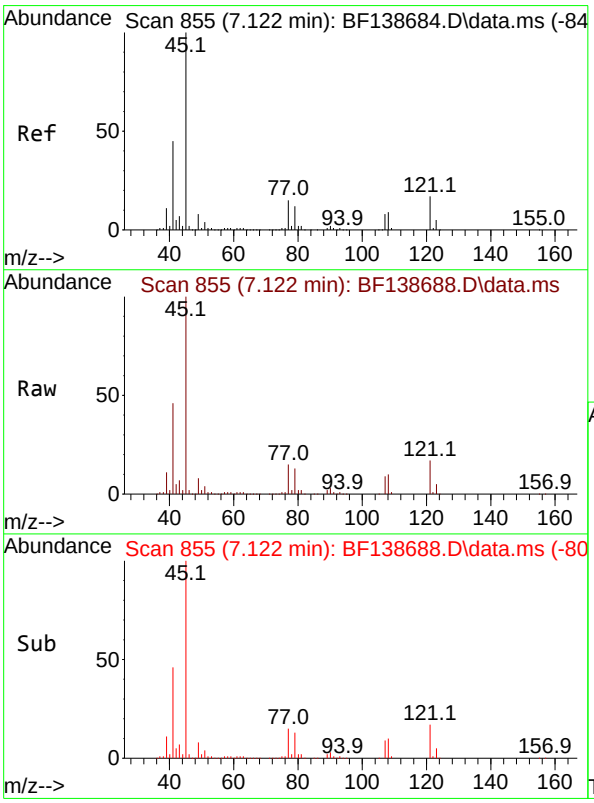

#15
Benzyl Alcohol
Concen: 39.118 ng
RT: 6.992 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF073024

Tgt Ion: 79 Resp: 200599

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 108 | 69.9 | 56.6 | 85.0 |
| 77 | 63.6 | 50.3 | 75.5 |

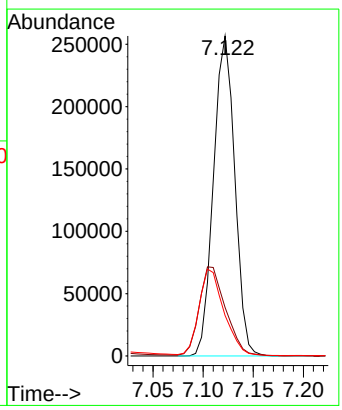


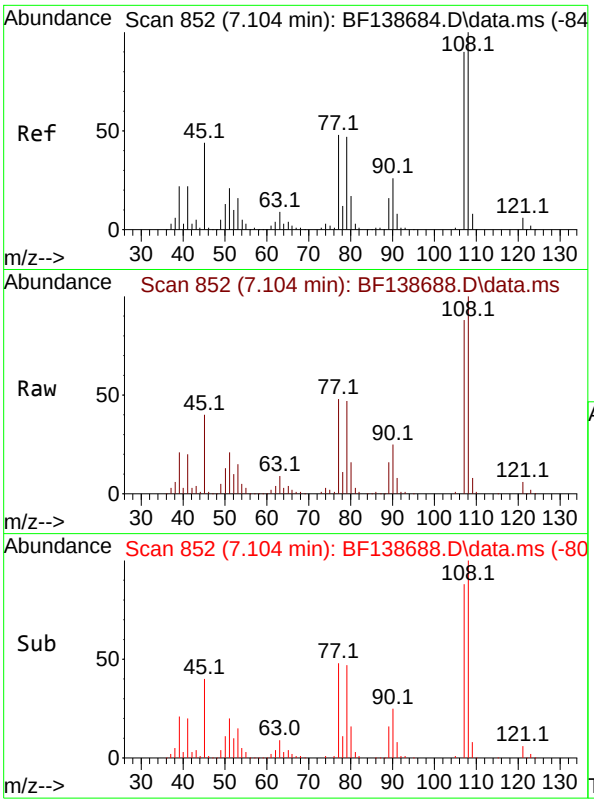




#16
2,2'-oxybis(1-Chloropropane)
Concen: 38.127 ng
RT: 7.122 min Scan# 855
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion: 45 Resp: 378258

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 77 | 15.2 | 0.0 | 34.9 |
| 79 | 12.7 | 0.0 | 32.2 |



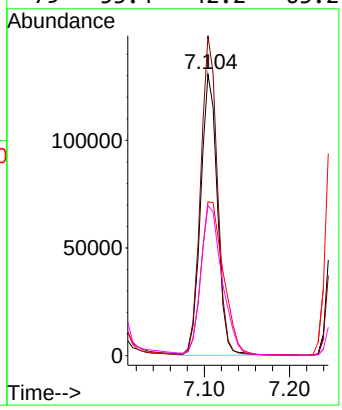


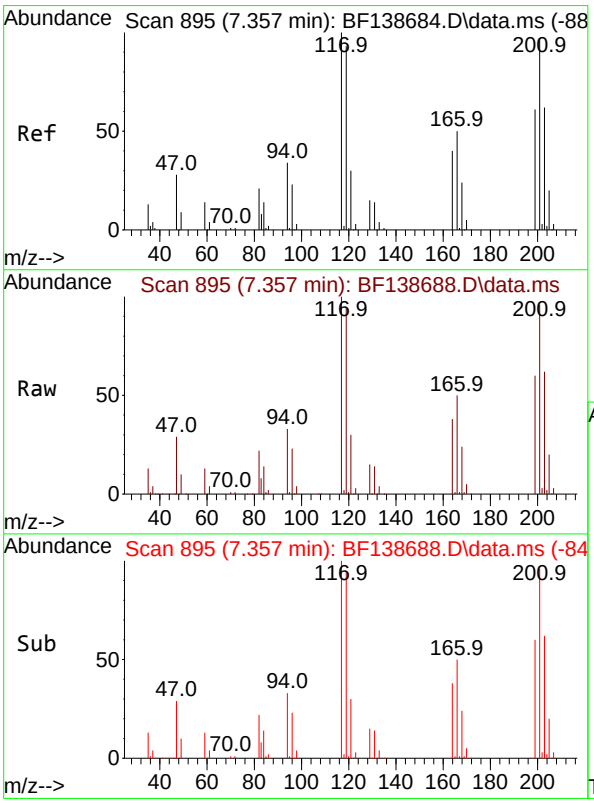

#17
2-Methylphenol
Concen: 38.649 ng
RT: 7.104 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF073024

Tgt Ion:107 Resp: 177941

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 113.7 | 89.2 | 133.8 |
| 77 | 54.7 | 43.0 | 64.4 |
| 79 | 53.4 | 42.2 | 63.2 |

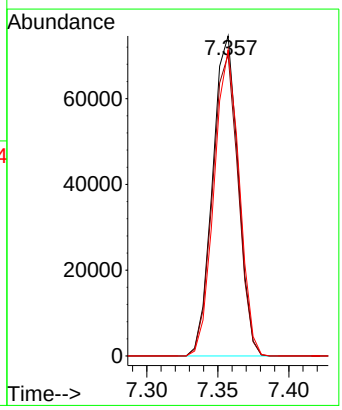


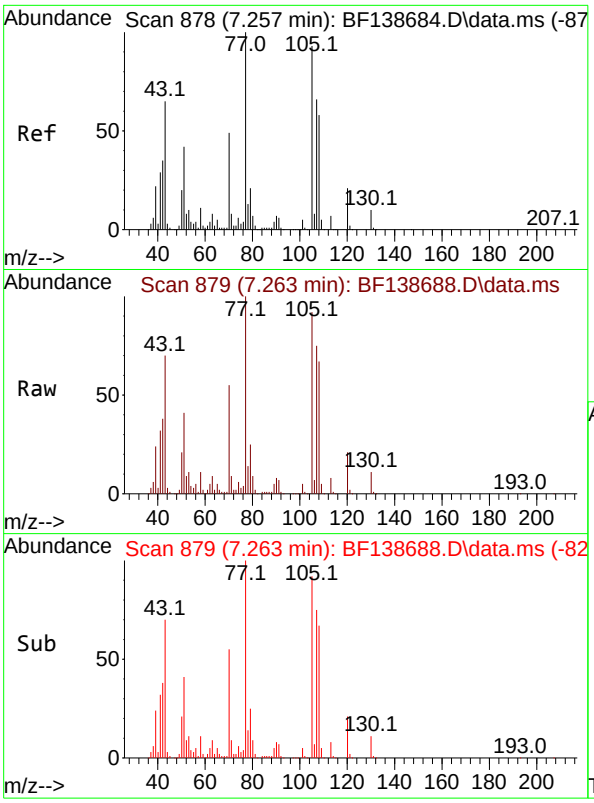




#18
Hexachloroethane
Concen: 39.384 ng
RT: 7.357 min Scan# 895
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:117 Resp: 93375

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 94.1 | 74.6 | 111.8 |
| 201 | 95.7 | 77.2 | 115.8 |



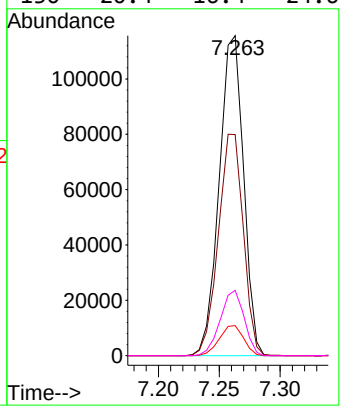


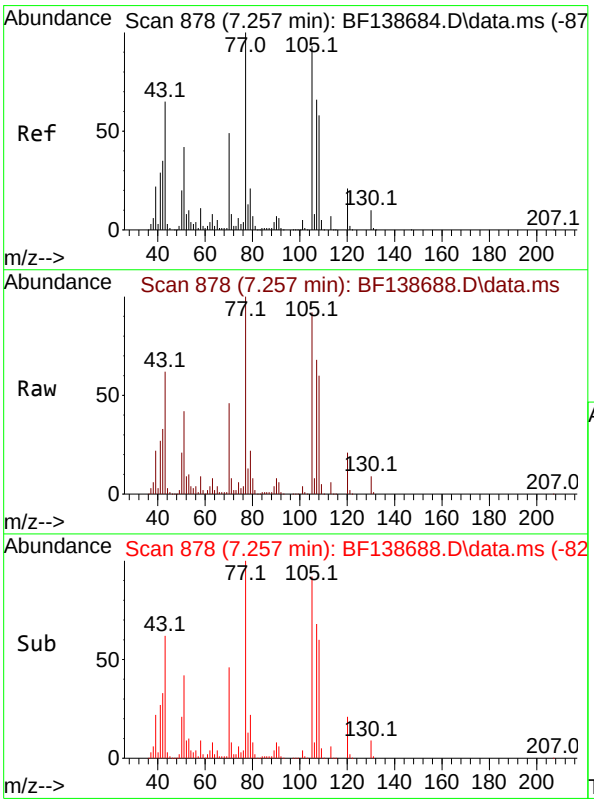

#19
n-Nitroso-di-n-propylamine
Concen: 37.442 ng
RT: 7.263 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF073024

Tgt Ion: 70 Resp: 160901

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 42 | 69.1 | 57.4 | 86.0 |
| 101 | 9.4 | 7.5 | 11.3 |
| 130 | 20.4 | 16.4 | 24.6 |

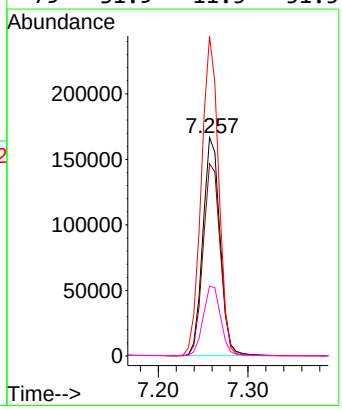


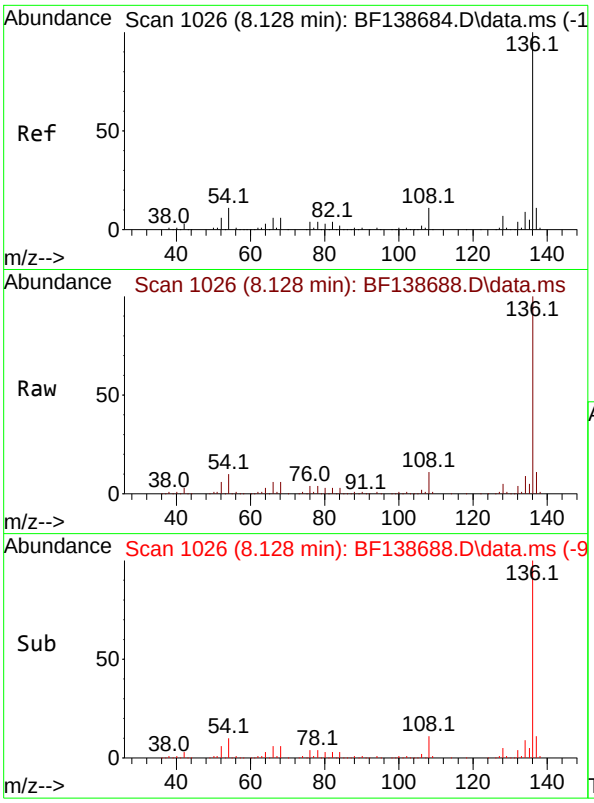




#20
3+4-Methylphenols
Concen: 37.436 ng
RT: 7.257 min Scan# 878
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:107 Resp: 221138

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 88.0 | 68.2 | 108.2 |
| 77 | 146.4 | 132.1 | 172.1 |
| 79 | 31.9 | 11.5 | 51.5 |



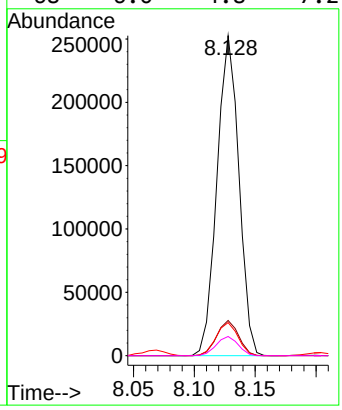


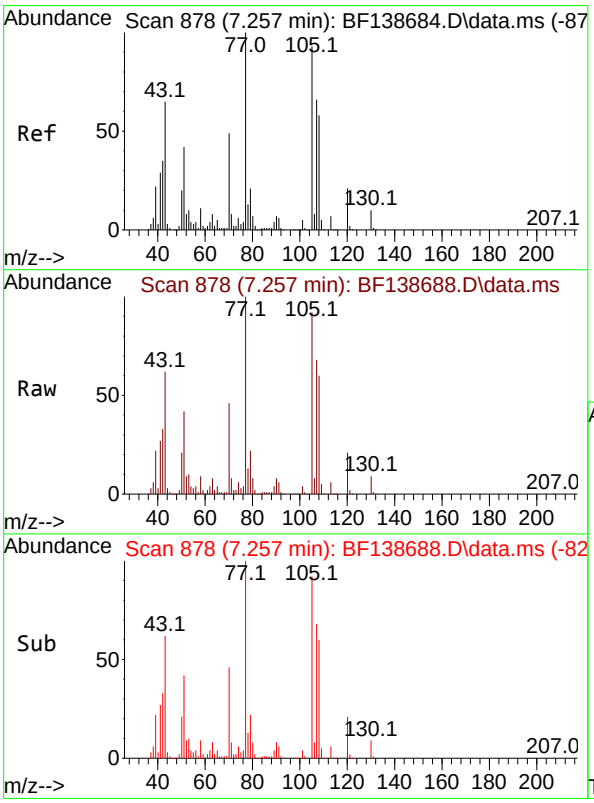

#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.128 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF073024

Tgt Ion:136 Resp: 316107

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.0 | 8.9 | 13.3 |
| 54 | 10.4 | 8.6 | 12.8 |
| 68 | 6.0 | 4.8 | 7.2 |

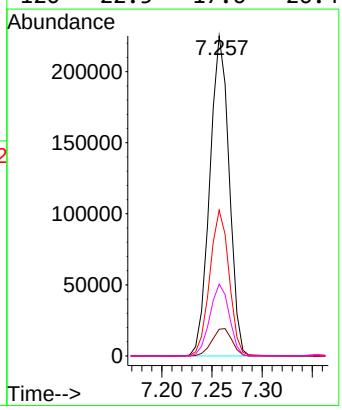


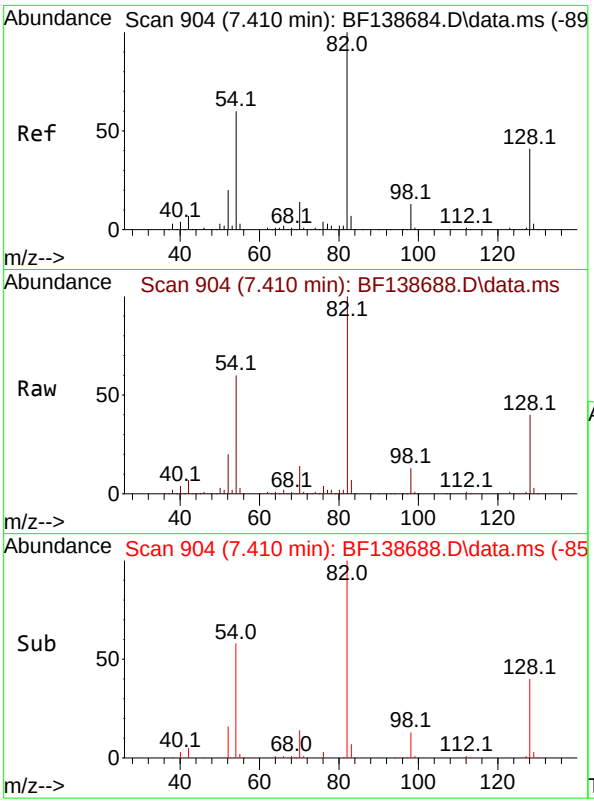




#22
Acetophenone
Concen: 39.095 ng
RT: 7.257 min Scan# 878
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:105 Resp: 302593

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 71 | 8.3 | 7.2 | 10.8 |
| 51 | 45.6 | 35.9 | 53.9 |
| 120 | 22.5 | 17.6 | 26.4 |



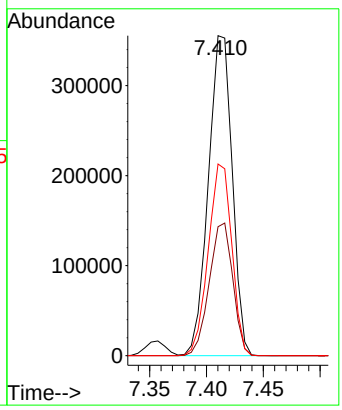


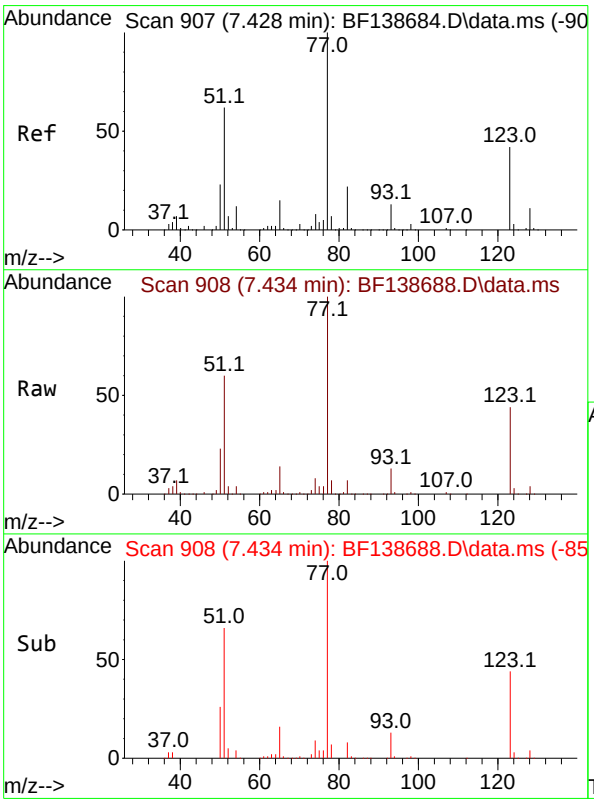

#23
Nitrobenzene-d5
Concen: 80.424 ng
RT: 7.410 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF073024

Tgt Ion: 82 Resp: 519984

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 40.3 | 32.8 | 49.2 |
| 54 | 59.9 | 48.3 | 72.5 |

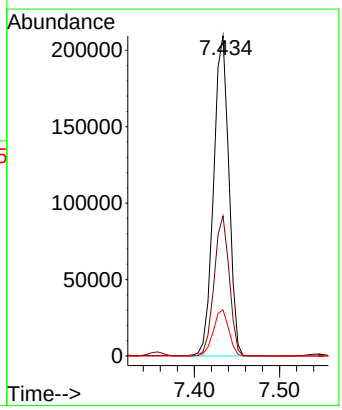


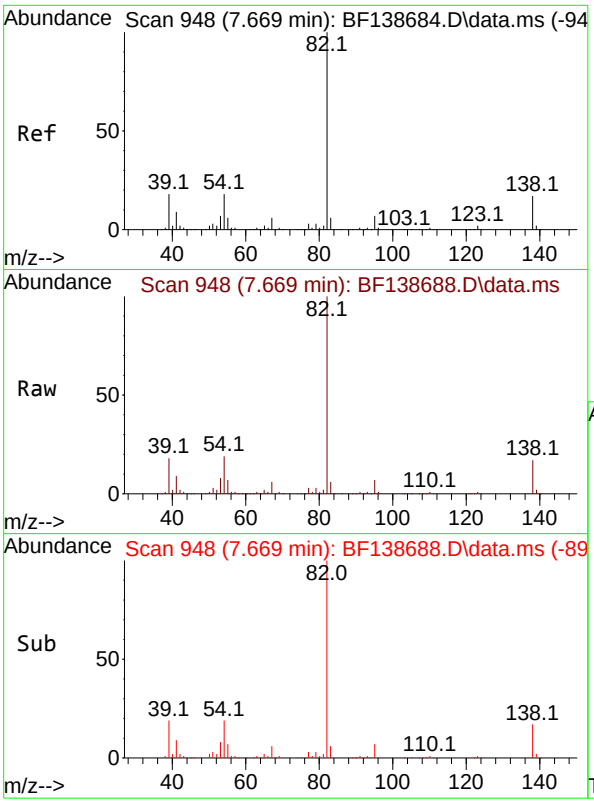




#24
Nitrobenzene
Concen: 39.882 ng
RT: 7.434 min Scan# 908
Delta R.T. 0.006 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion: 77 Resp: 262386

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 123 | 43.7 | 33.3 | 49.9 |
| 65 | 14.4 | 11.9 | 17.9 |



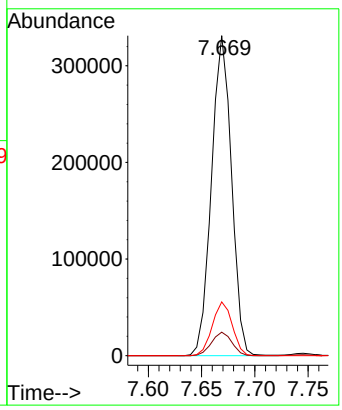


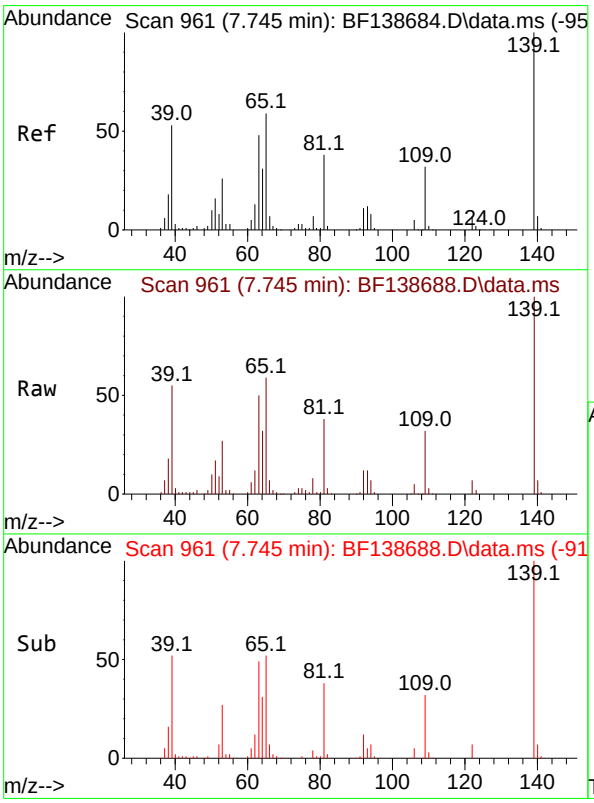

#25
Isophorone
Concen: 39.275 ng
RT: 7.669 min Scan# 94
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF073024

Tgt Ion: 82 Resp: 433596

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 95 | 7.4 | 5.7 | 8.5 |
| 138 | 16.8 | 13.7 | 20.5 |

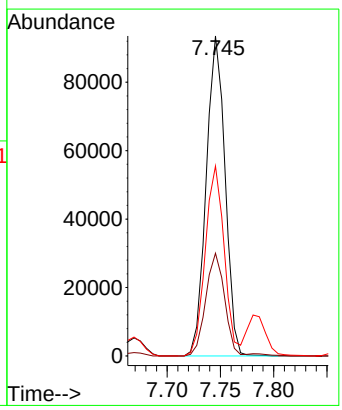


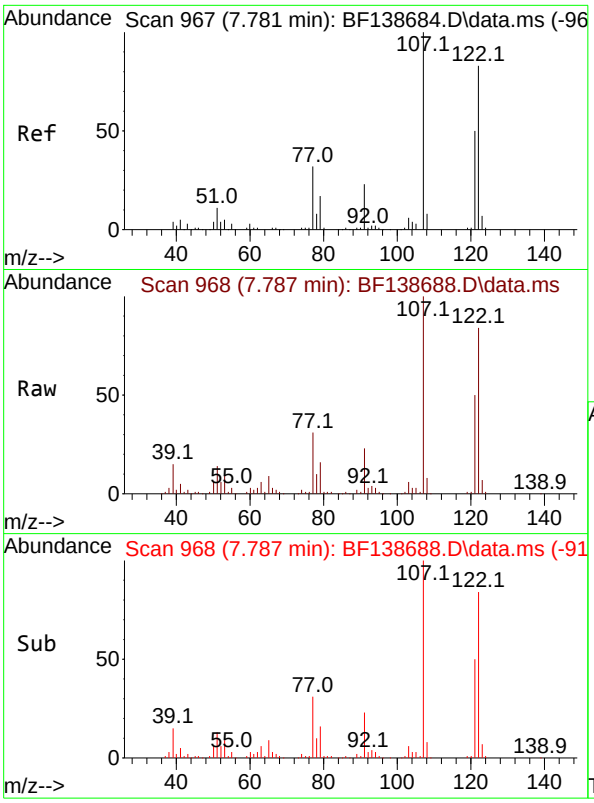




#26
2-Nitrophenol
Concen: 40.668 ng
RT: 7.745 min Scan# 961
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:139 Resp: 115113

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 32.1 | 25.9 | 38.9 |
| 65 | 59.3 | 47.0 | 70.6 |



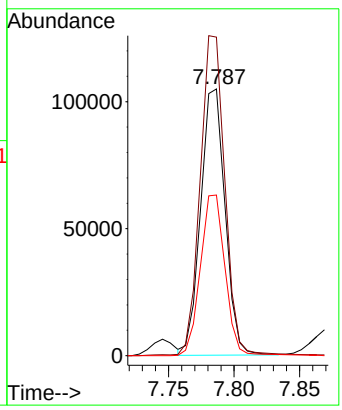


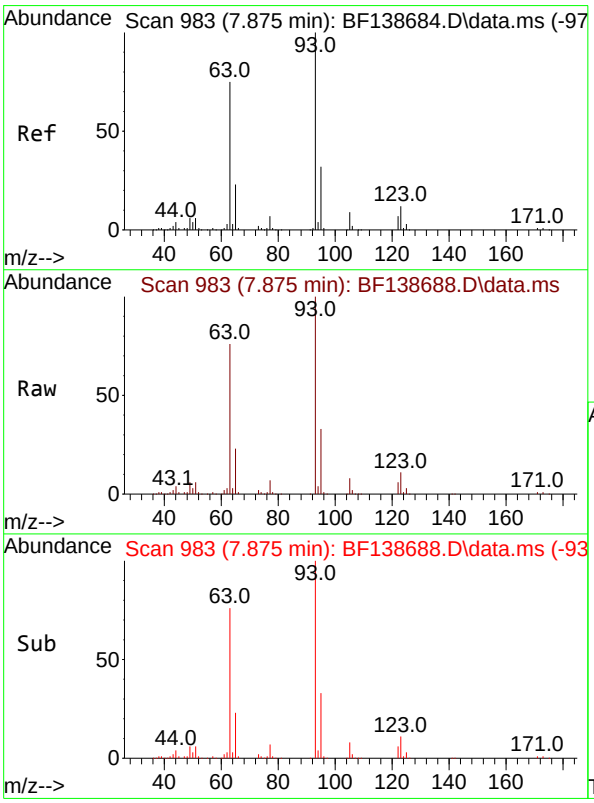

#27
2,4-Dimethylphenol
Concen: 40.231 ng
RT: 7.787 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF073024

Tgt Ion:122 Resp: 136249

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 107 | 119.4 | 95.0 | 142.6 |
| 121 | 60.2 | 47.3 | 70.9 |

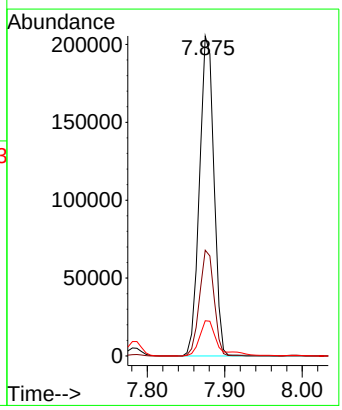


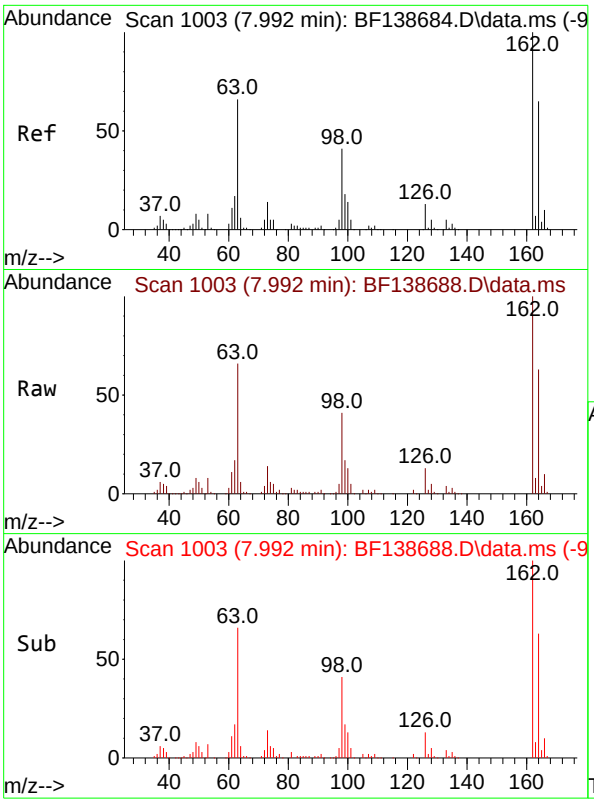




#28
bis(2-Chloroethoxy)methane
Concen: 39.557 ng
RT: 7.875 min Scan# 983
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion: 93 Resp: 265943

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 33.1 | 25.8 | 38.8 |
| 123 | 11.0 | 9.4 | 14.0 |



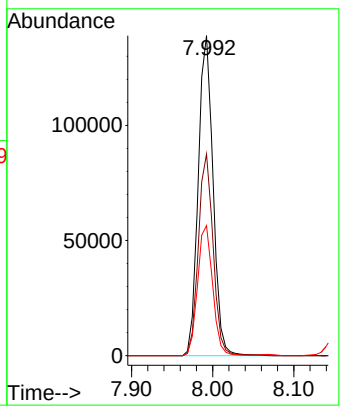


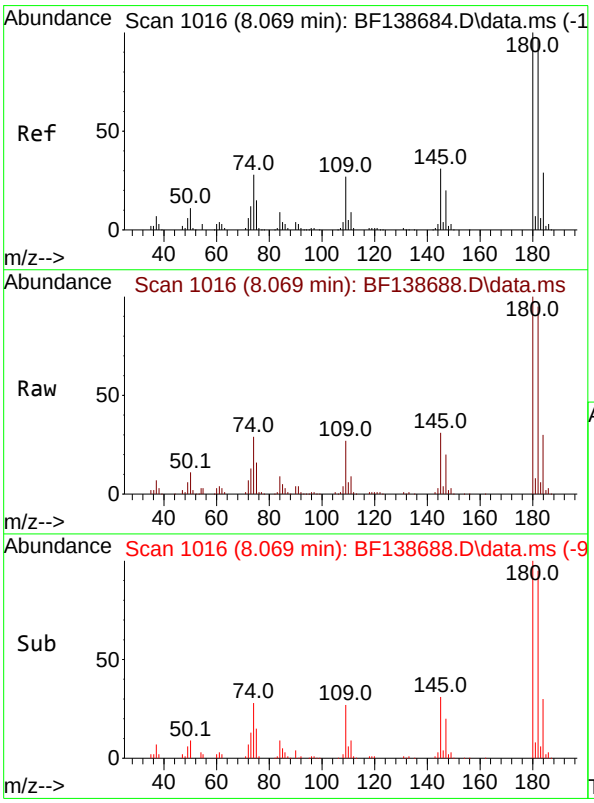

#29
2,4-Dichlorophenol
Concen: 40.567 ng
RT: 7.992 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF073024

Tgt Ion:162 Resp: 176541

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 164 | 63.0 | 44.7 | 84.7 |
| 98 | 40.7 | 20.8 | 60.8 |

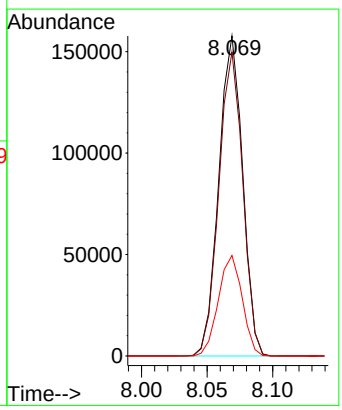


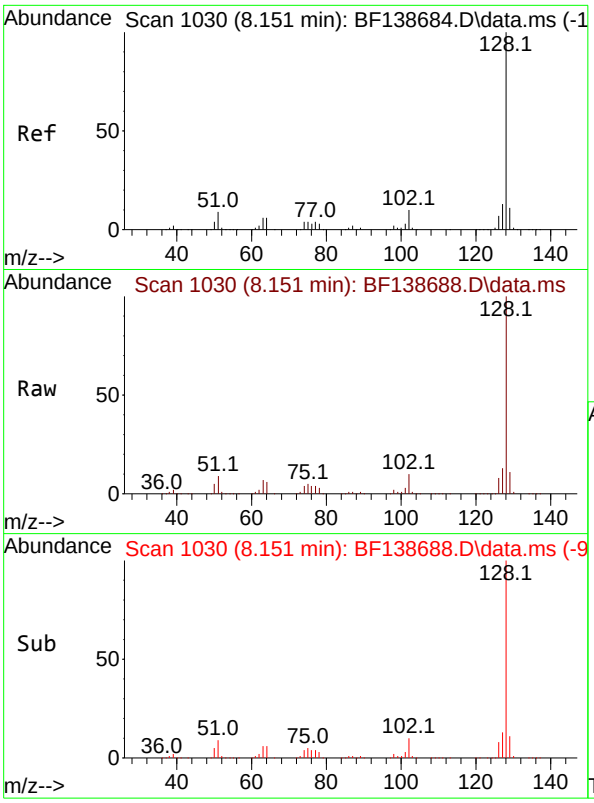




#30
1,2,4-Trichlorobenzene
Concen: 39.651 ng
RT: 8.069 min Scan# 1016
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:180 Resp: 199132

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.0 | 76.9 | 115.3 |
| 145 | 31.4 | 25.0 | 37.4 |



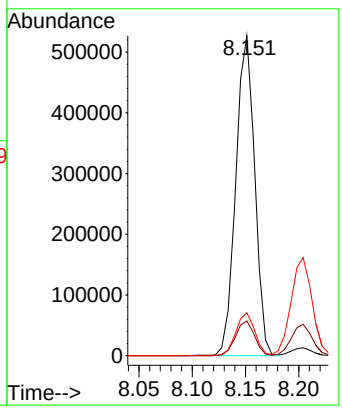


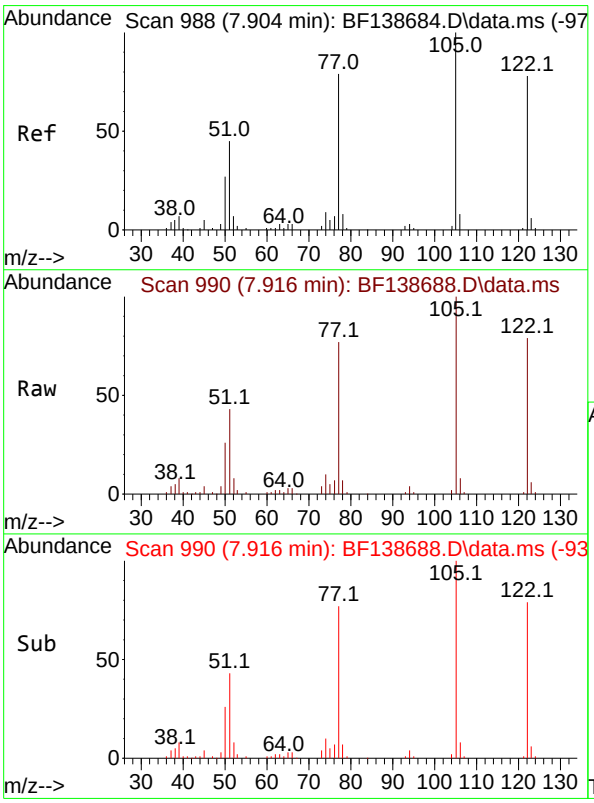

#31
Naphthalene
Concen: 39.232 ng
RT: 8.151 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF073024

Tgt Ion:128 Resp: 652780

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 10.9 | 8.7 | 13.1 |
| 127 | 13.4 | 10.6 | 16.0 |

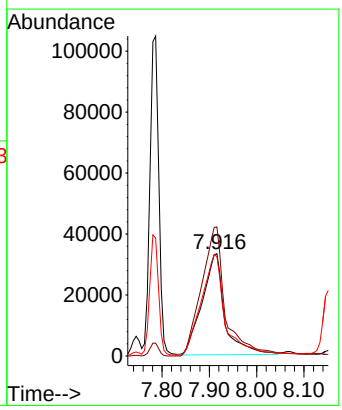


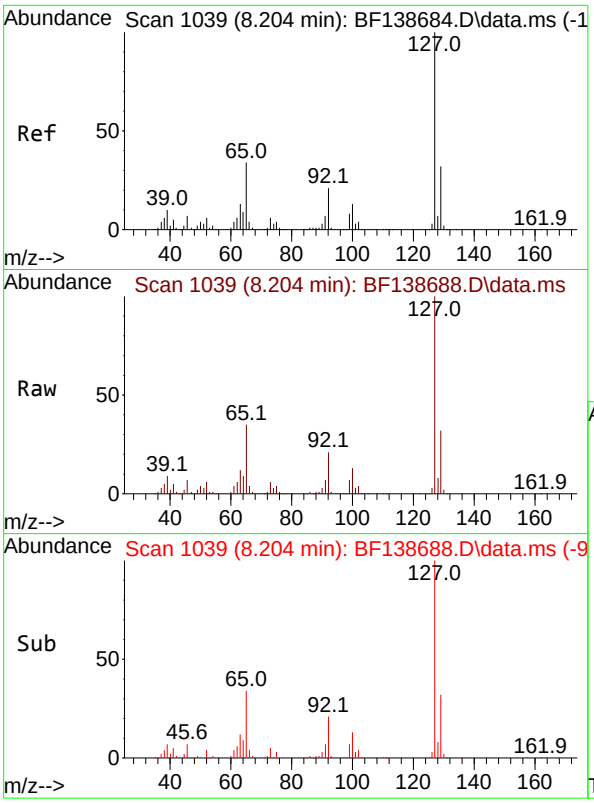




#32
Benzoic acid
Concen: 41.481 ng
RT: 7.916 min Scan# 990
Delta R.T. 0.012 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:122 Resp: 110429

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 126.2 | 106.7 | 146.7 |
| 77 | 97.2 | 81.1 | 121.1 |



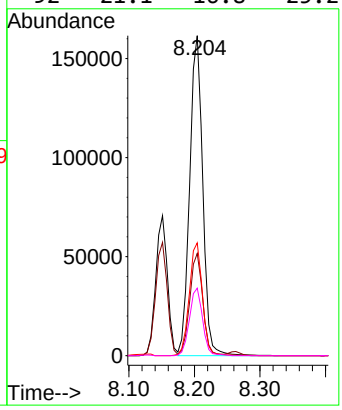


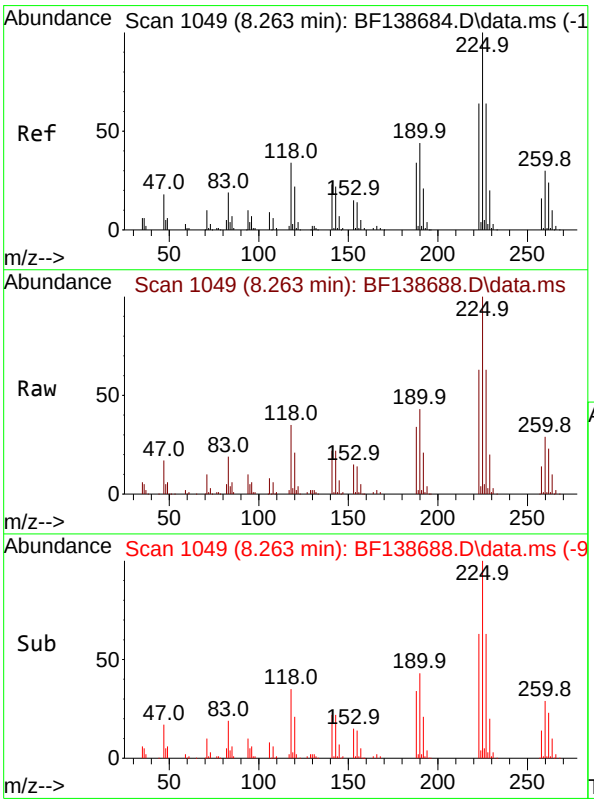

#33
4-Chloroaniline
Concen: 40.067 ng
RT: 8.204 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF073024

Tgt Ion:127 Resp: 223787

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 32.0 | 25.9 | 38.9 |
| 65 | 35.2 | 27.6 | 41.4 |
| 92 | 21.1 | 16.8 | 25.2 |

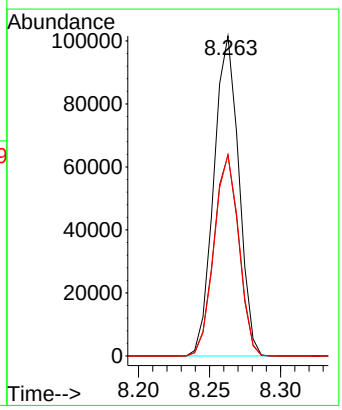


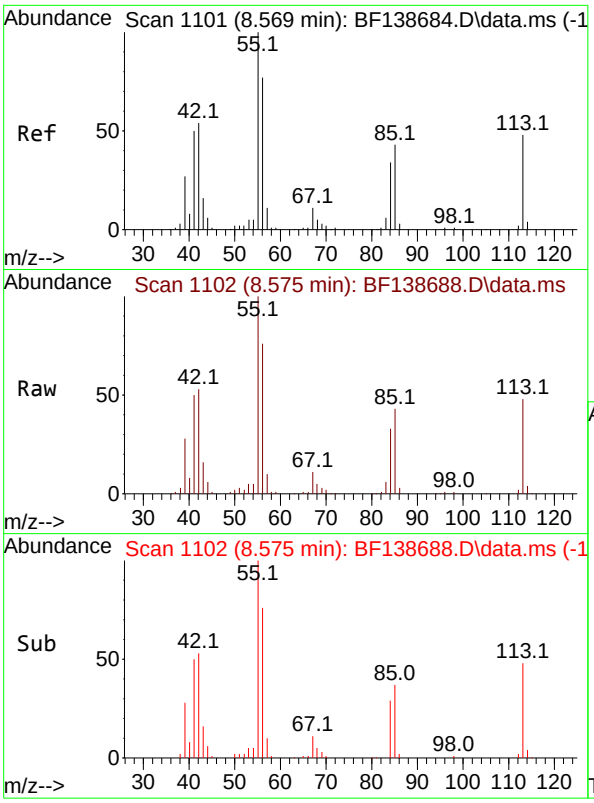




#34
Hexachlorobutadiene
Concen: 40.772 ng
RT: 8.263 min Scan# 1049
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:225 Resp: 124022

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.8 | 51.2 | 76.8 |
| 227 | 62.9 | 51.1 | 76.7 |



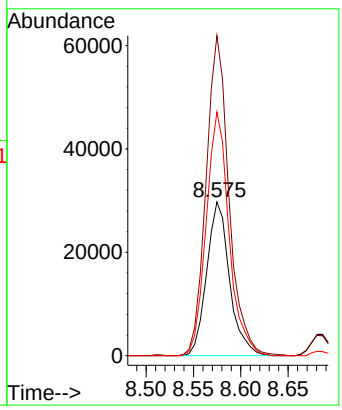


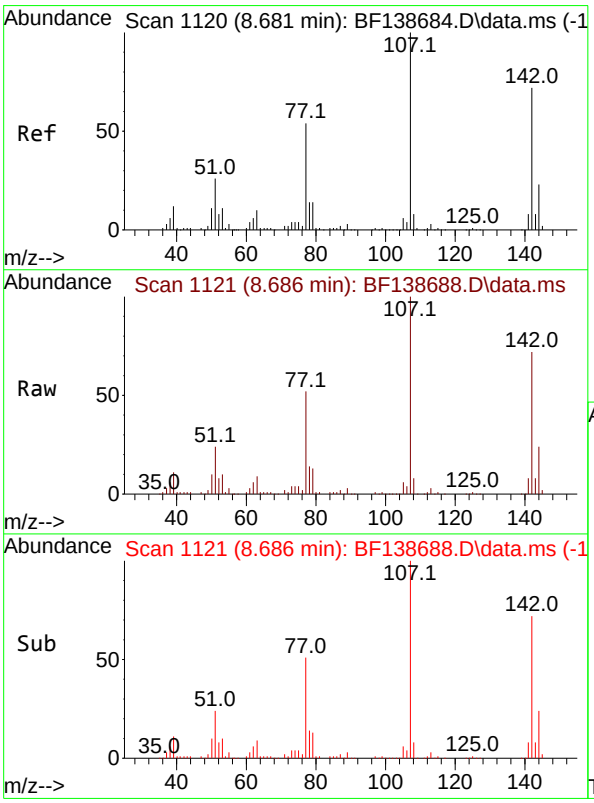

#35
Caprolactam
Concen: 38.365 ng
RT: 8.575 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF073024

Tgt Ion:113 Resp: 49818

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 55 | 208.2 | 186.7 | 226.7 |
| 56 | 158.6 | 138.9 | 178.9 |

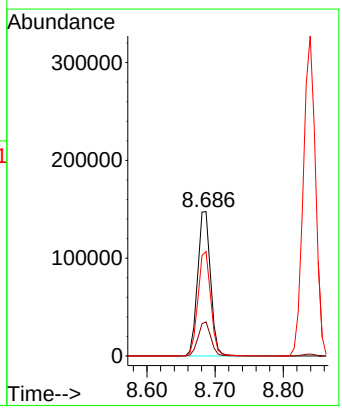


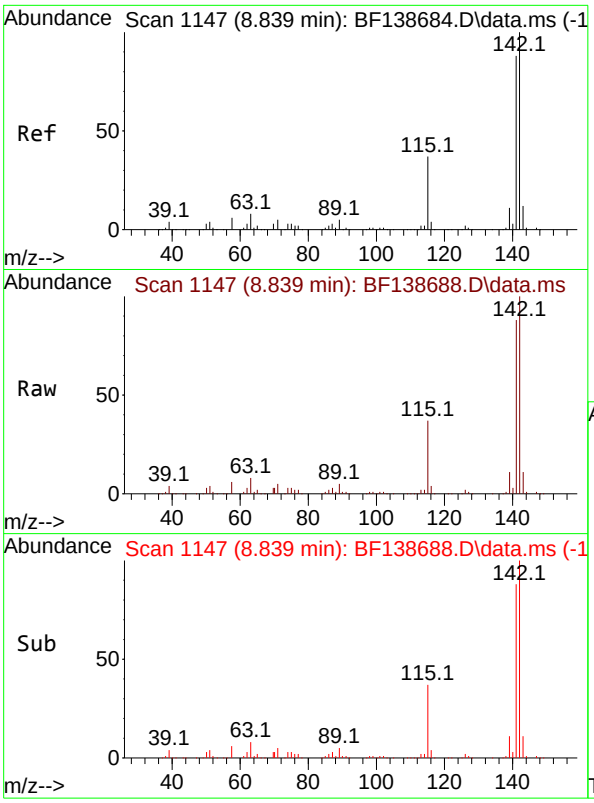




#36
4-Chloro-3-methylphenol
Concen: 39.164 ng
RT: 8.686 min Scan# 1121
Delta R.T. 0.006 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:107 Resp: 194782

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 144 | 23.6 | 18.2 | 27.2 |
| 142 | 72.3 | 57.4 | 86.2 |



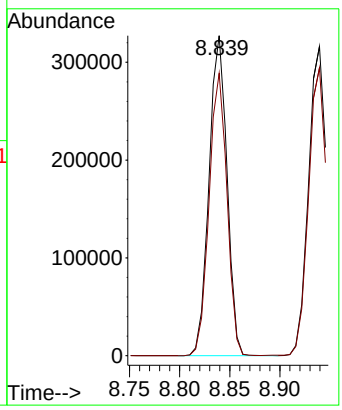


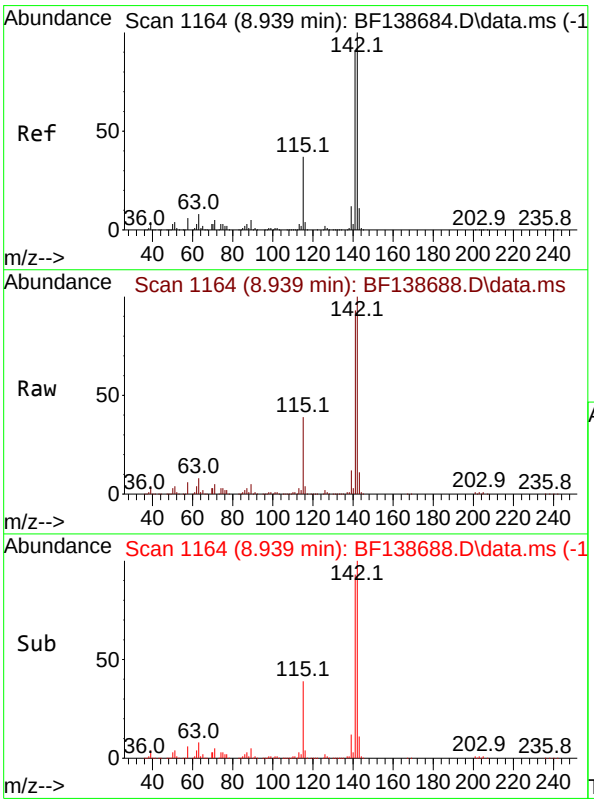

#37
2-Methylnaphthalene
Concen: 38.836 ng
RT: 8.839 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF073024

Tgt Ion:142 Resp: 408106

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 88.3 | 70.8 | 106.2 |

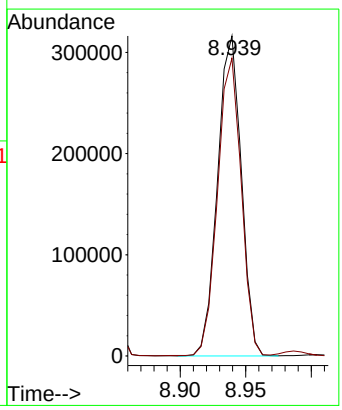


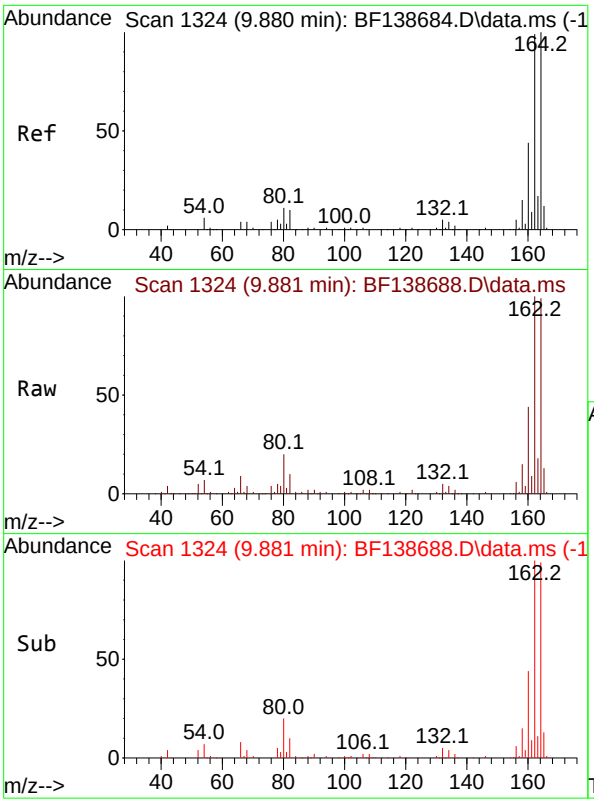




#38
1-Methylnaphthalene
Concen: 38.666 ng
RT: 8.939 min Scan# 1164
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:142 Resp: 398155

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 93.1 | 73.1 | 109.7 |



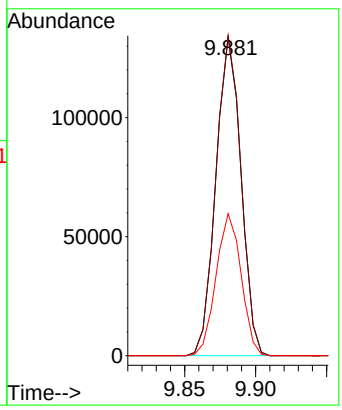


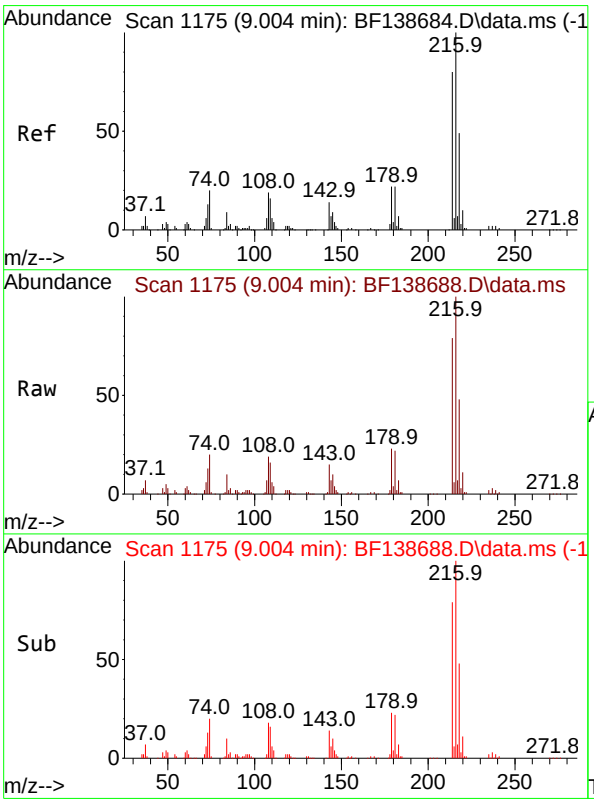

#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.881 min Scan# 1
Delta R.T. 0.001 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF073024

Tgt Ion:164 Resp: 164062

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 100.6 | 79.4 | 119.0 |
| 160 | 44.6 | 35.1 | 52.7 |

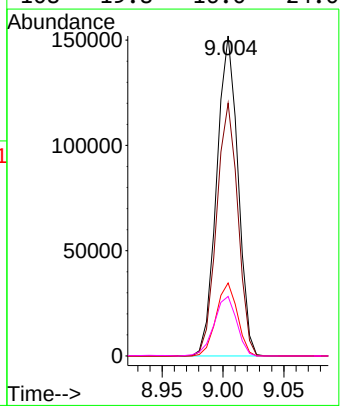


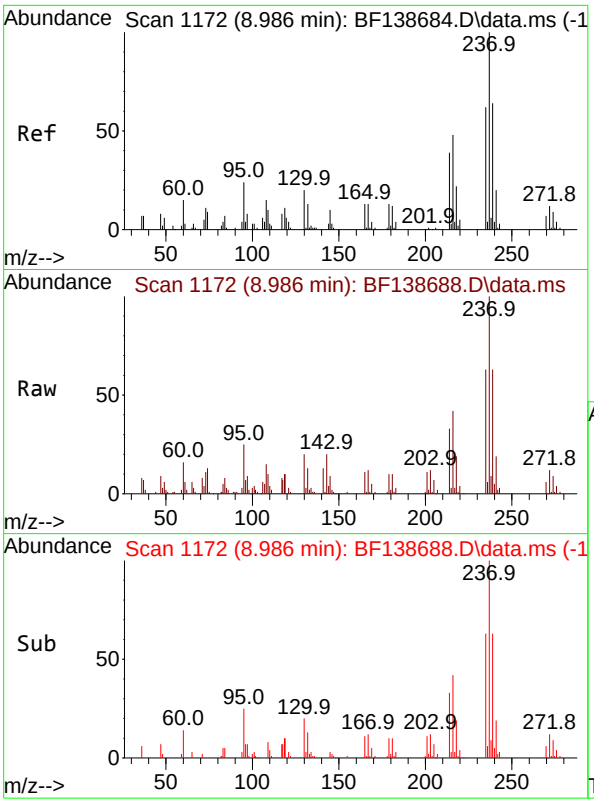




#40
1,2,4,5-Tetrachlorobenzene
Concen: 40.554 ng
RT: 9.004 min Scan# 1175
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:216 Resp: 184821

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 216 | 100 | | |
| 214 | 78.7 | 63.9 | 95.9 |
| 179 | 22.6 | 17.8 | 26.6 |
| 108 | 19.8 | 16.0 | 24.0 |



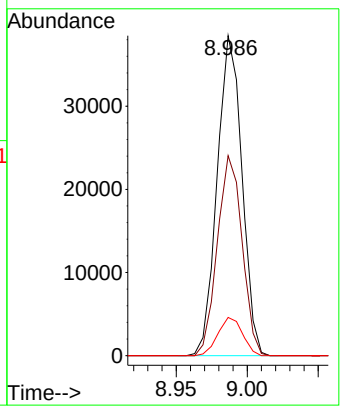


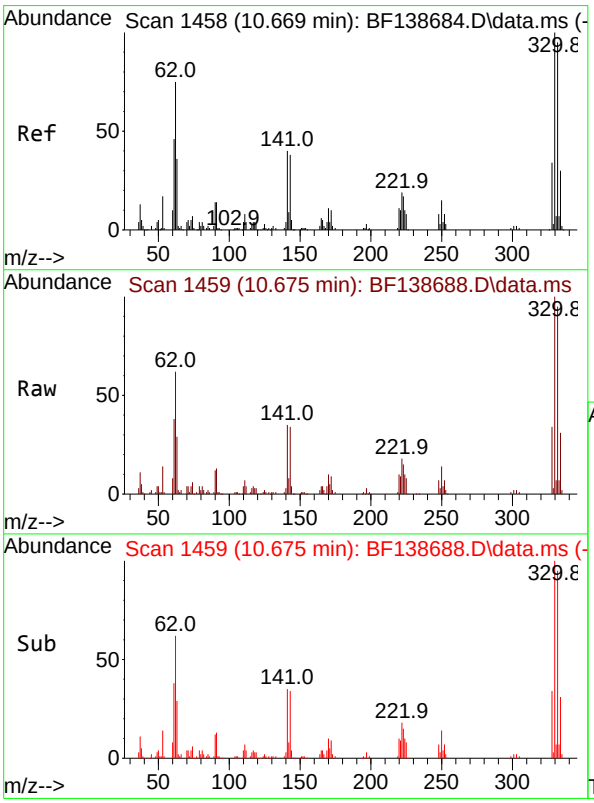

#41
Hexachlorocyclopentadiene
Concen: 42.278 ng
RT: 8.986 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF073024

Tgt Ion:237 Resp: 46660

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 237 | 100 | | |
| 235 | 62.5 | 41.8 | 81.8 |
| 272 | 11.9 | 0.0 | 32.2 |

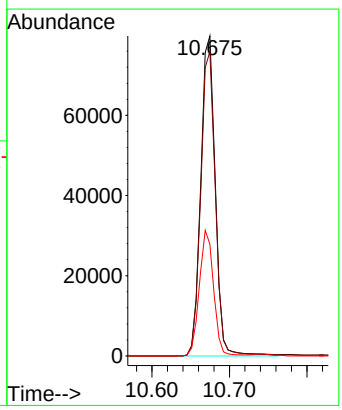


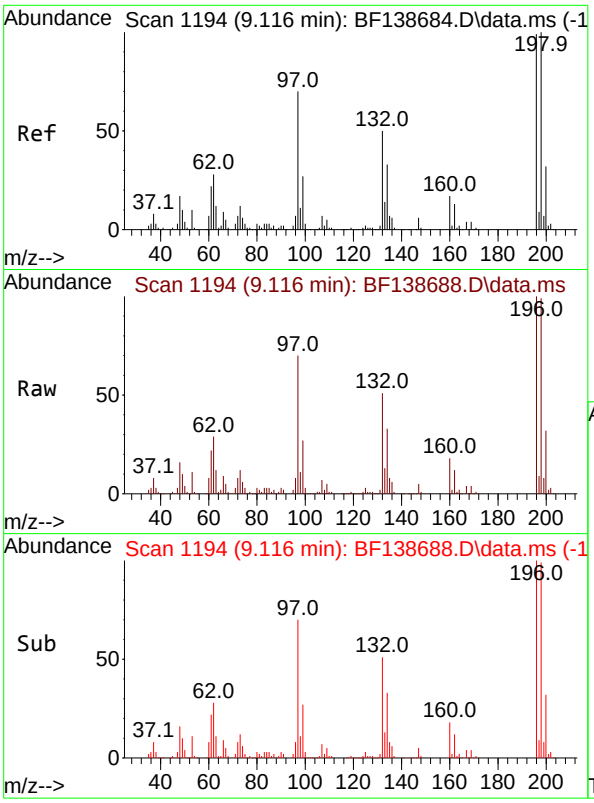




#42
2,4,6-Tribromophenol
Concen: 77.401 ng
RT: 10.675 min Scan# 1459
Delta R.T. 0.006 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:330 Resp: 104018

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.6 | 76.4 | 114.6 |
| 141 | 38.5 | 31.1 | 46.7 |



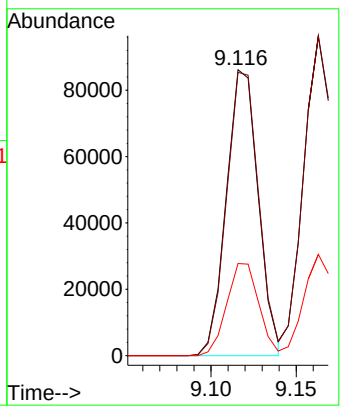


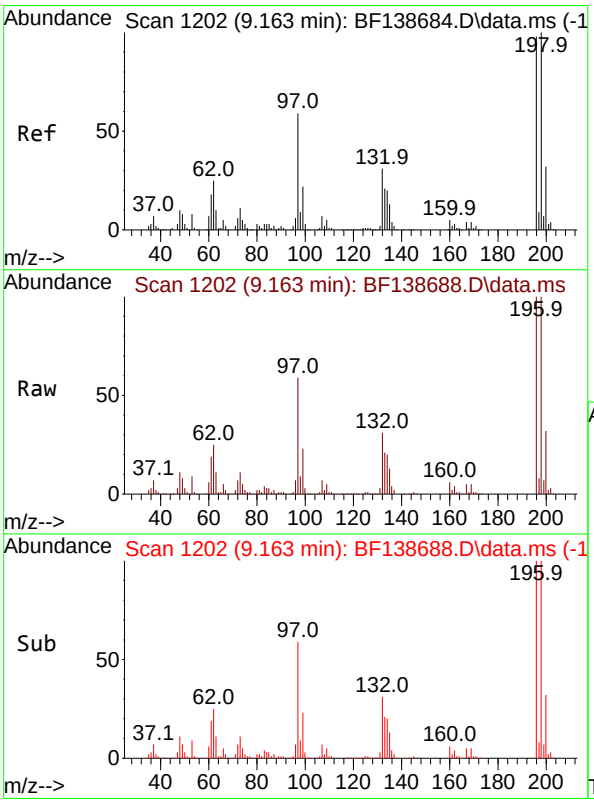

#43
2,4,6-Trichlorophenol
Concen: 40.384 ng
RT: 9.116 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF073024

Tgt Ion:196 Resp: 112217

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 99.1 | 80.5 | 120.7 |
| 200 | 32.2 | 25.9 | 38.9 |

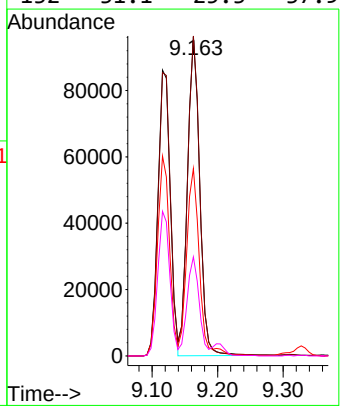


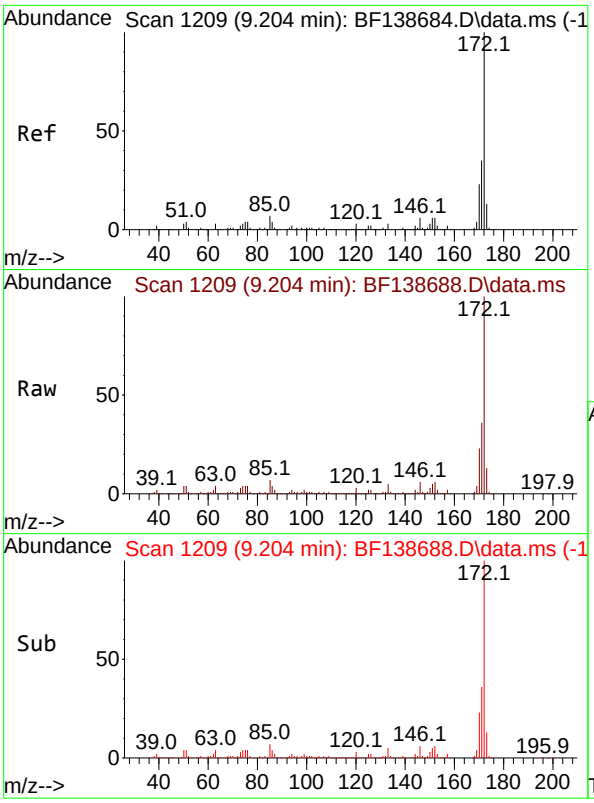




#44
2,4,5-Trichlorophenol
Concen: 41.011 ng
RT: 9.163 min Scan# 1202
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:196 Resp: 124581

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 100.3 | 81.2 | 121.8 |
| 97 | 58.7 | 47.8 | 71.6 |
| 132 | 31.1 | 25.3 | 37.9 |



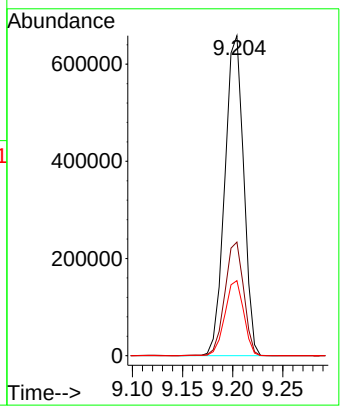


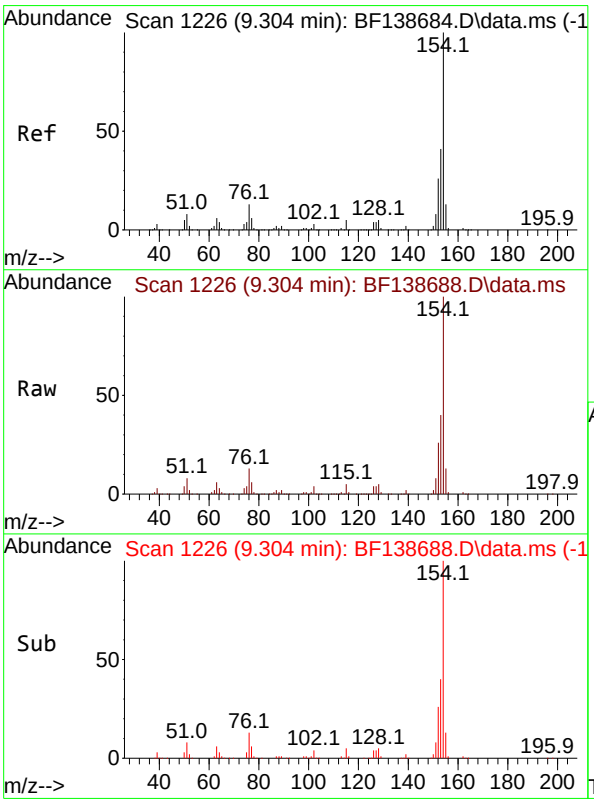

#45
2-Fluorobiphenyl
Concen: 78.500 ng
RT: 9.204 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF073024

Tgt Ion:172 Resp: 857165

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.5 | 28.3 | 42.5 |
| 170 | 23.5 | 18.8 | 28.2 |

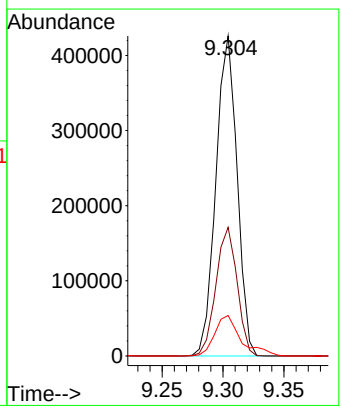


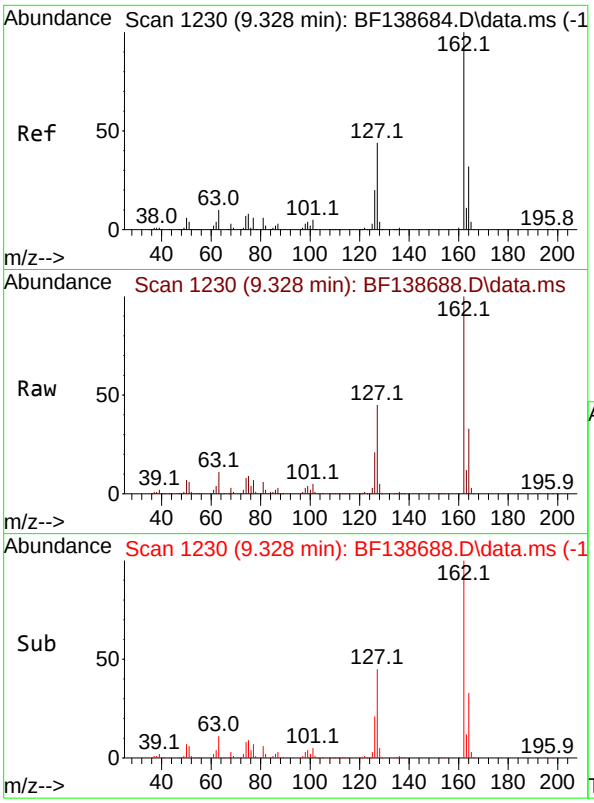




#46
1,1'-Biphenyl
Concen: 40.156 ng
RT: 9.304 min Scan# 1226
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:154 Resp: 515966

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 40.2 | 20.8 | 60.8 |
| 76 | 12.7 | 0.0 | 32.8 |



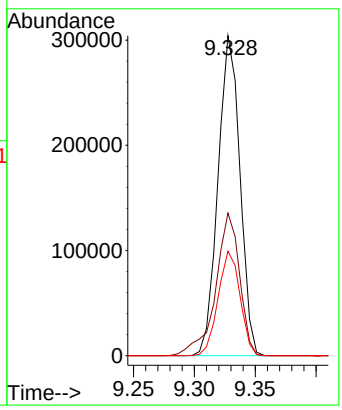


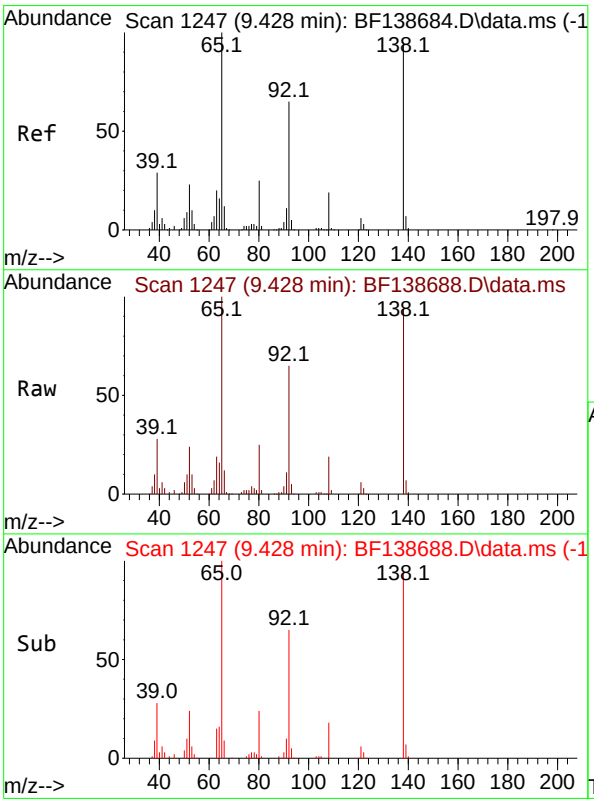

#47
2-Chloronaphthalene
Concen: 39.966 ng
RT: 9.328 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF073024

Tgt Ion:162 Resp: 381923

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 127 | 44.5 | 35.4 | 53.2 |
| 164 | 32.6 | 25.6 | 38.4 |

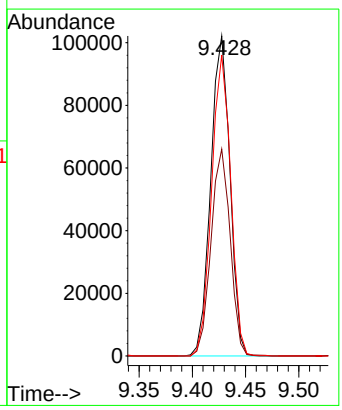


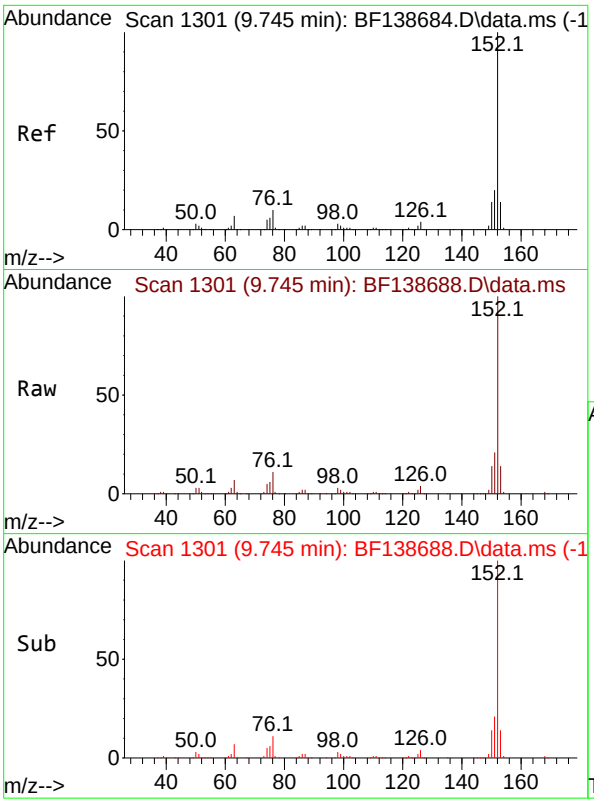




#48
2-Nitroaniline
Concen: 39.505 ng
RT: 9.428 min Scan# 1247
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion: 65 Resp: 127985

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 92 | 64.6 | 52.0 | 78.0 |
| 138 | 94.1 | 76.2 | 114.4 |



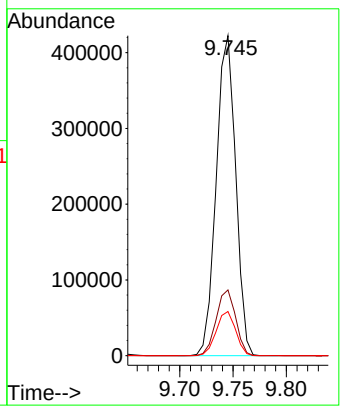


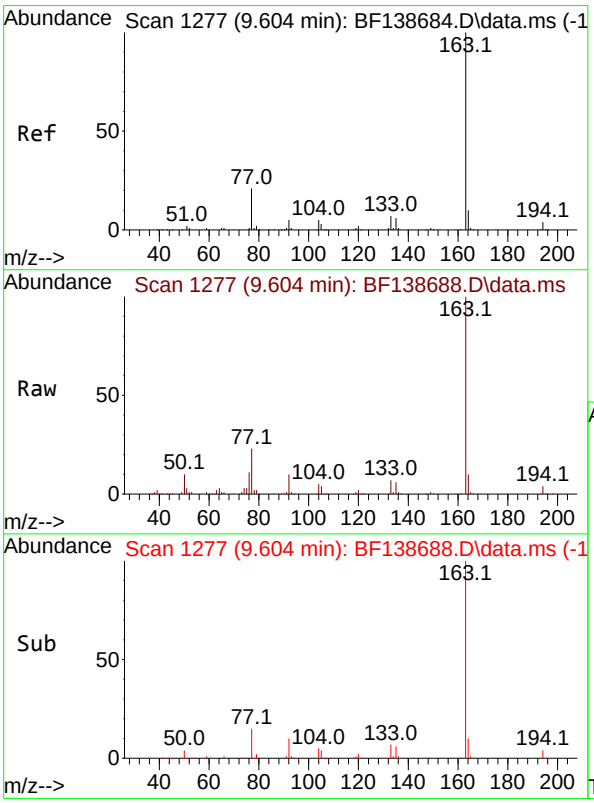

#49
Acenaphthylene
Concen: 39.504 ng
RT: 9.745 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF073024

Tgt Ion:152 Resp: 535427

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.6 | 16.0 | 24.0 |
| 153 | 13.8 | 11.0 | 16.4 |

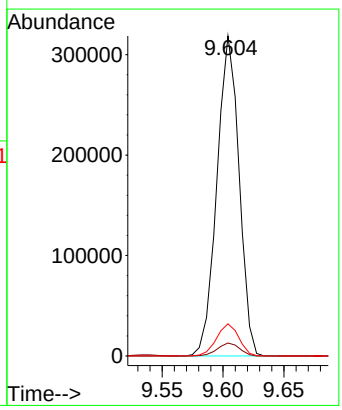


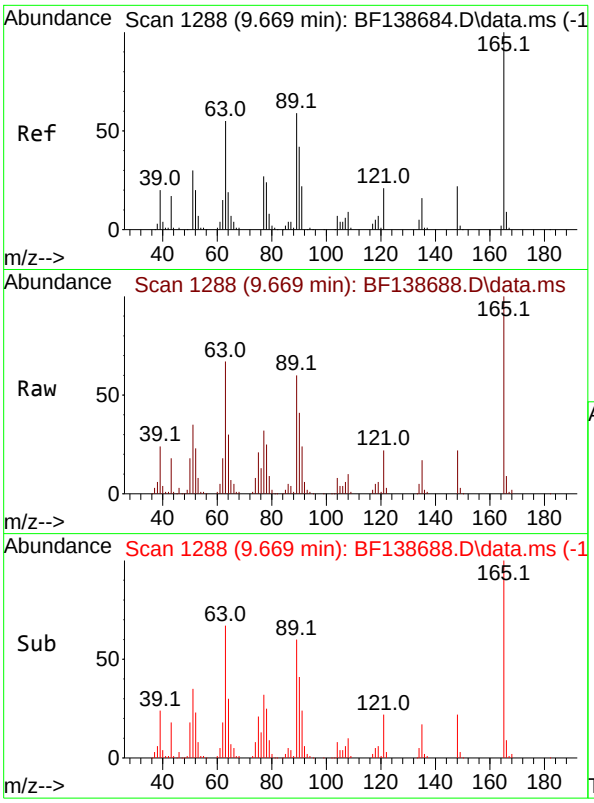




#50
Dimethylphthalate
Concen: 38.458 ng
RT: 9.604 min Scan# 1277
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:163 Resp: 403438

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 4.0 | 3.1 | 4.7 |
| 164 | 10.1 | 7.8 | 11.8 |



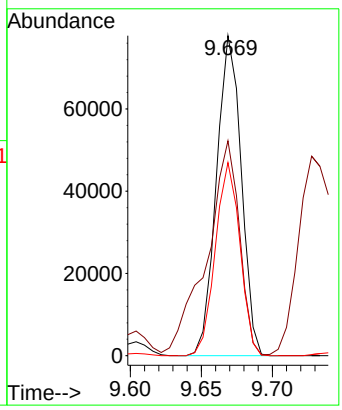


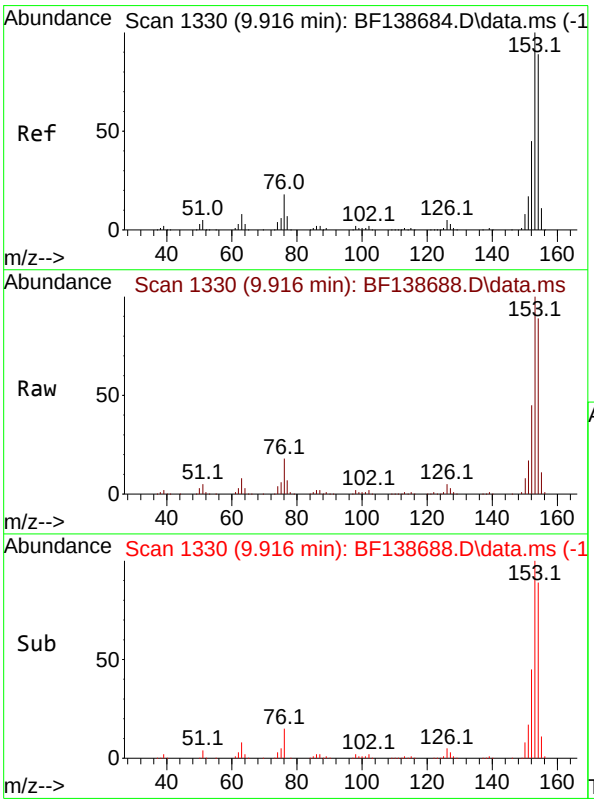

#51
2,6-Dinitrotoluene
Concen: 39.895 ng
RT: 9.669 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF073024

Tgt Ion:165 Resp: 94451

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 67.1 | 52.0 | 78.0 |
| 89 | 60.3 | 47.0 | 70.6 |

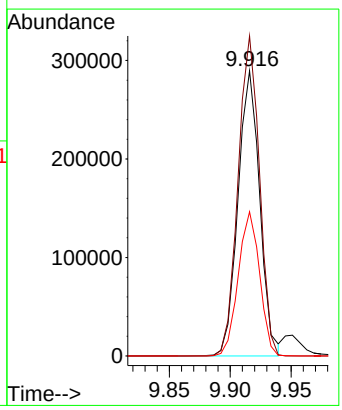


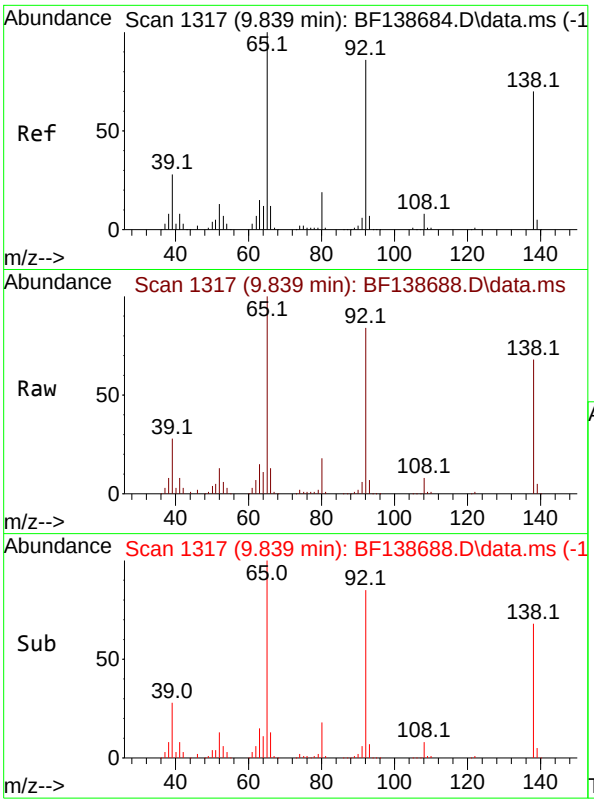




#52
Acenaphthene
Concen: 39.456 ng
RT: 9.916 min Scan# 1330
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:154 Resp: 359484

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 112.2 | 89.9 | 134.9 |
| 152 | 50.6 | 40.6 | 60.8 |



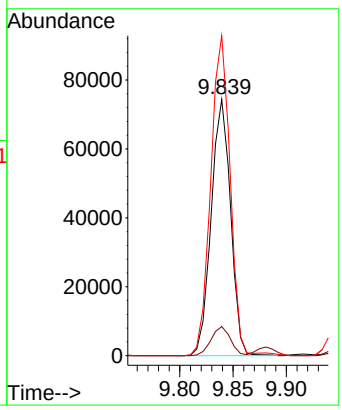


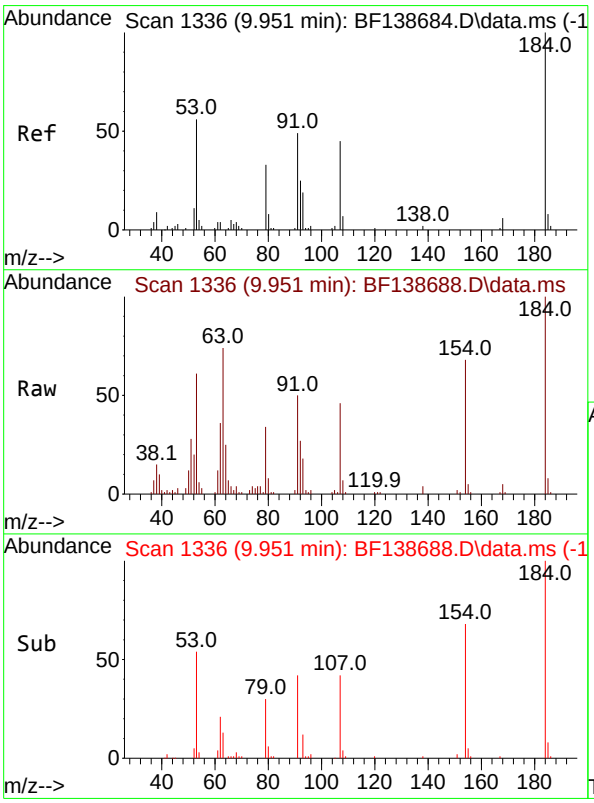

#53
3-Nitroaniline
Concen: 38.306 ng
RT: 9.839 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF073024

Tgt Ion:138 Resp: 93752

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 108 | 11.3 | 9.1 | 13.7 |
| 92 | 124.8 | 98.7 | 148.1 |

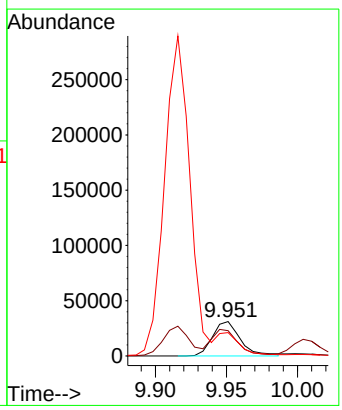


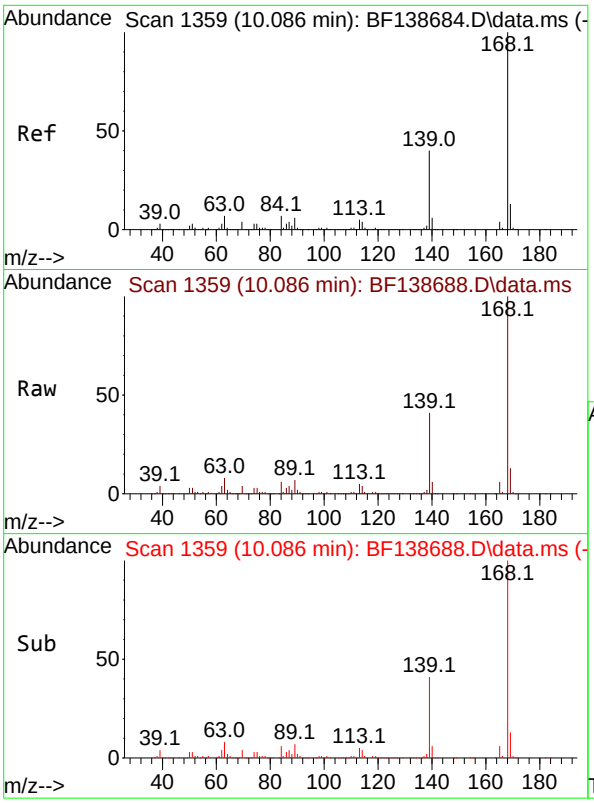




#54
2,4-Dinitrophenol
Concen: 39.106 ng
RT: 9.951 min Scan# 1336
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:184 Resp: 42619

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 63 | 73.7 | 57.5 | 86.3 |
| 154 | 67.8 | 51.7 | 77.5 |



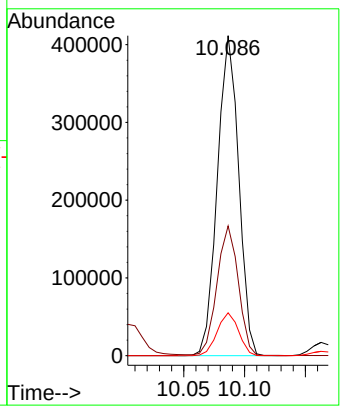


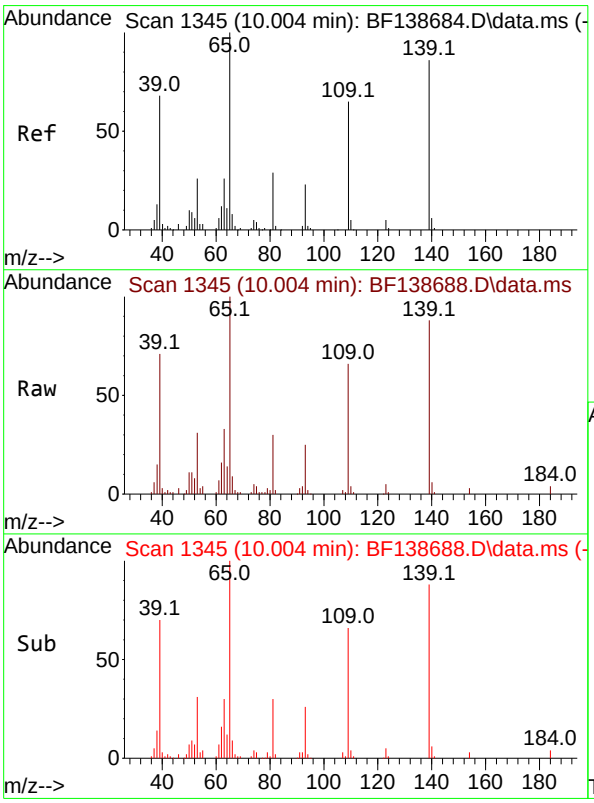

#55
Dibenzofuran
Concen: 38.997 ng
RT: 10.086 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF073024

Tgt Ion:168 Resp: 501545

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 40.5 | 32.6 | 49.0 |
| 169 | 13.4 | 10.7 | 16.1 |

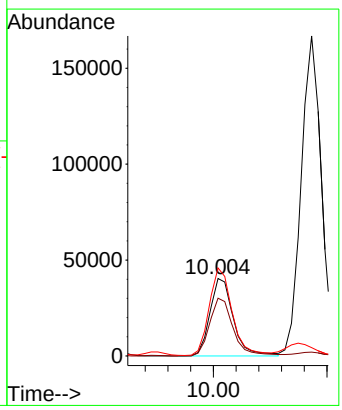


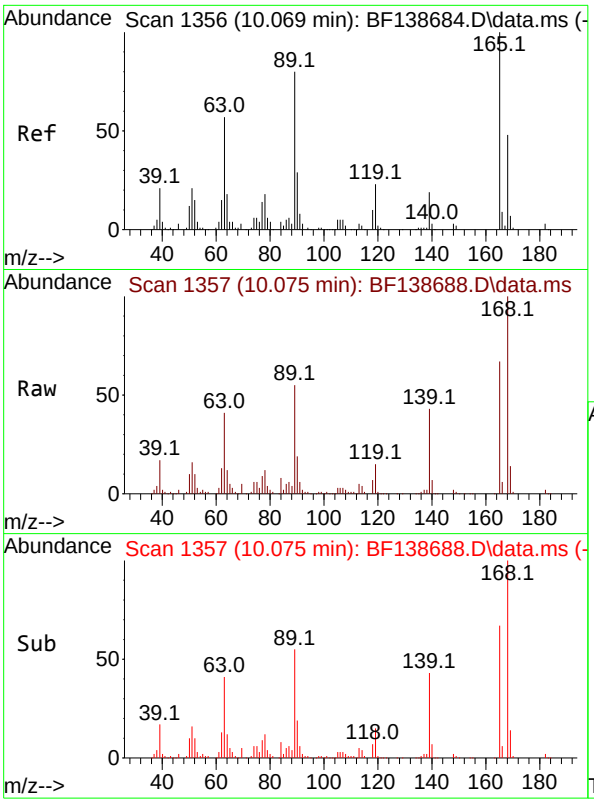




#56
4-Nitrophenol
Concen: 39.336 ng
RT: 10.004 min Scan# 1345
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:139 Resp: 57893

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 74.6 | 55.5 | 95.5 |
| 65 | 113.6 | 96.7 | 136.7 |



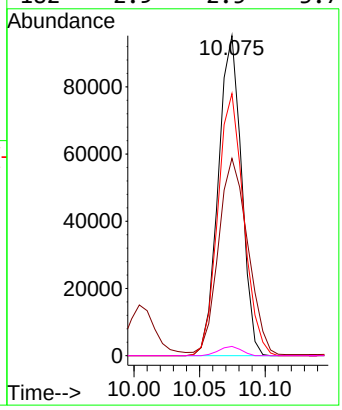


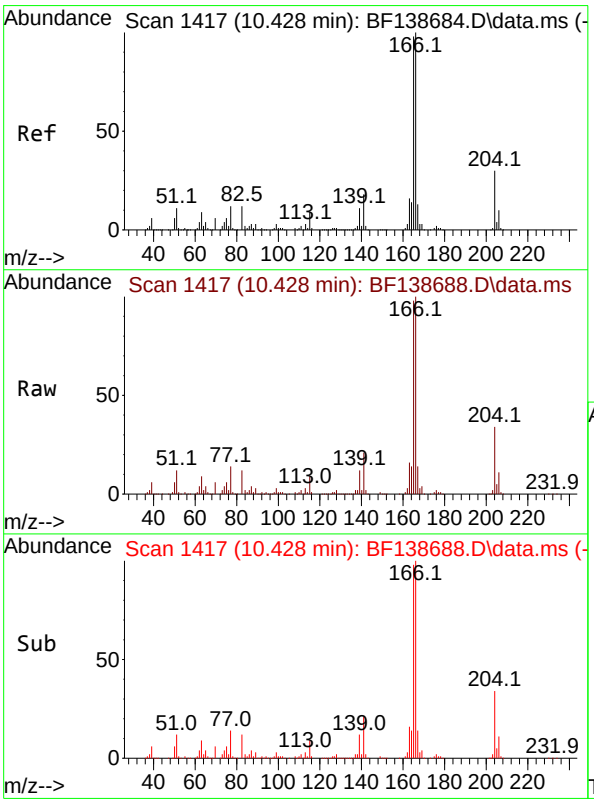

#57
2,4-Dinitrotoluene
Concen: 38.673 ng
RT: 10.075 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF073024

Tgt Ion:165 Resp: 116813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 61.6 | 46.3 | 69.5 |
| 89 | 81.9 | 64.2 | 96.4 |
| 182 | 2.9 | 2.5 | 3.7 |

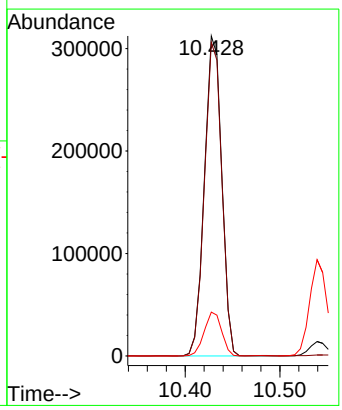


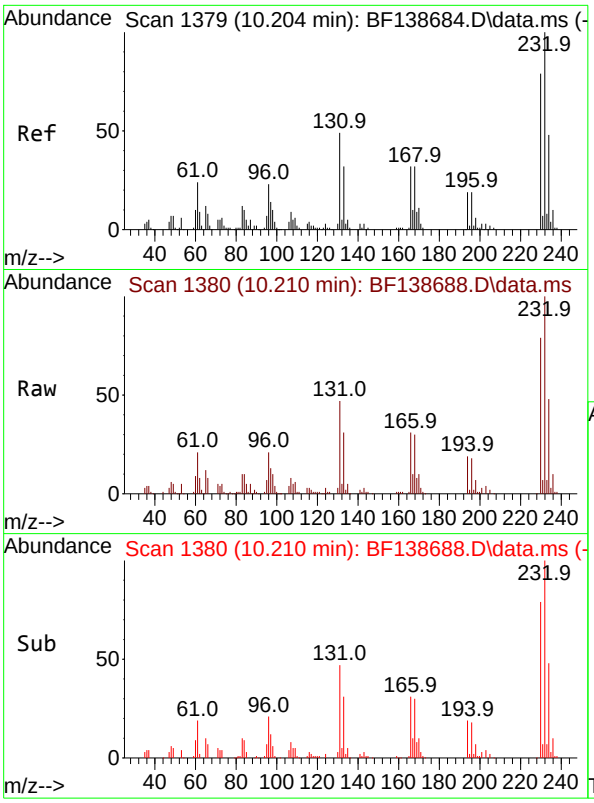




#58
Fluorene
Concen: 38.661 ng
RT: 10.428 min Scan# 1417
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:166 Resp: 395954

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 98.0 | 78.4 | 117.6 |
| 167 | 13.7 | 10.6 | 16.0 |



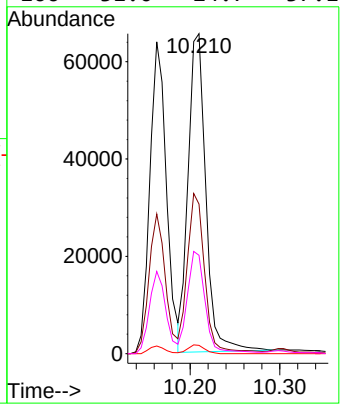


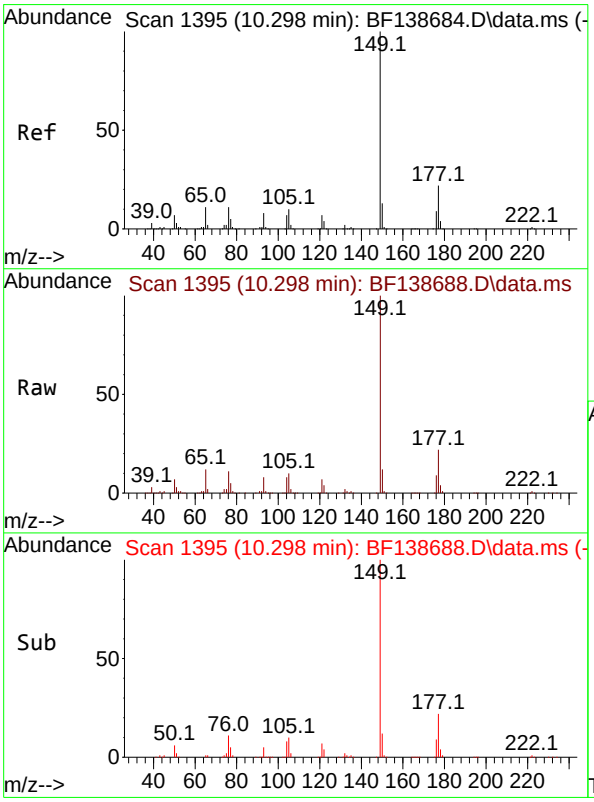

#59
2,3,4,6-Tetrachlorophenol
Concen: 38.680 ng
RT: 10.210 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF073024

Tgt Ion:232 Resp: 89831

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 232 | 100 | | |
| 131 | 49.2 | 37.0 | 55.4 |
| 130 | 2.6 | 2.0 | 3.0 |
| 166 | 31.0 | 24.7 | 37.1 |

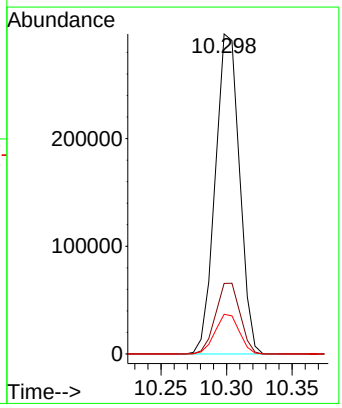


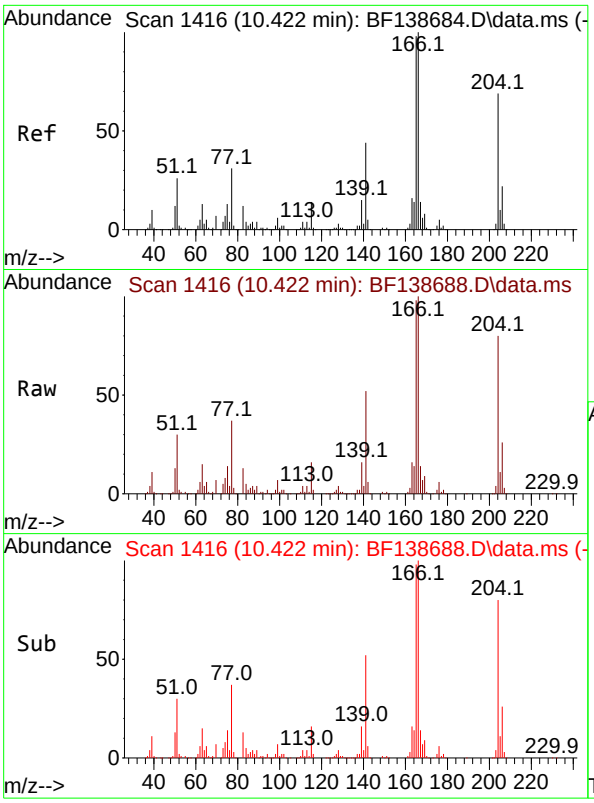




#60
Diethylphthalate
Concen: 38.447 ng
RT: 10.298 min Scan# 1395
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:149 Resp: 382418

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 177 | 22.0 | 17.8 | 26.8 |
| 150 | 12.4 | 10.1 | 15.1 |



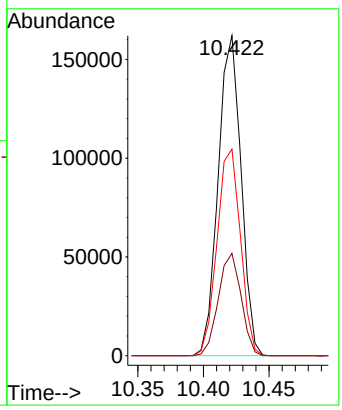


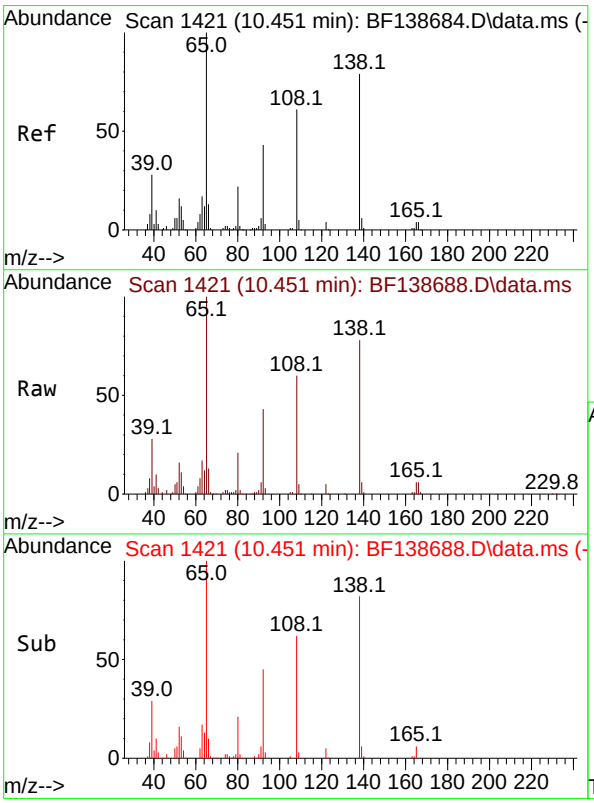

#61
4-Chlorophenyl-phenylether
Concen: 39.091 ng
RT: 10.422 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF073024

Tgt Ion:204 Resp: 196905

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 204 | 100 | | |
| 206 | 31.9 | 26.1 | 39.1 |
| 141 | 64.5 | 51.4 | 77.0 |

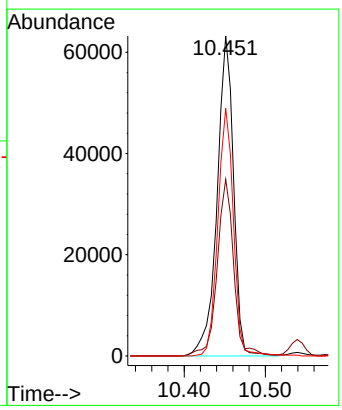


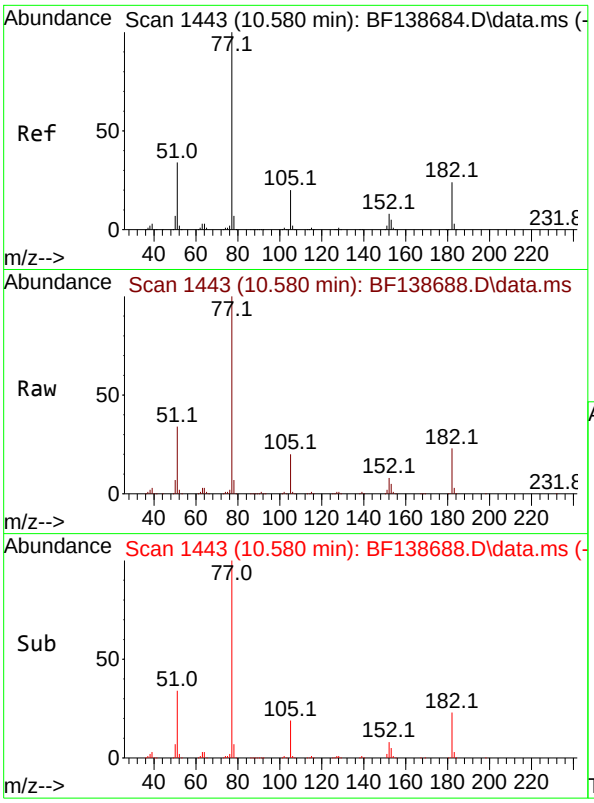




#62
4-Nitroaniline
Concen: 38.525 ng
RT: 10.451 min Scan# 1421
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:138 Resp: 89602

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 55.2 | 34.2 | 74.2 |
| 108 | 77.4 | 56.2 | 96.2 |



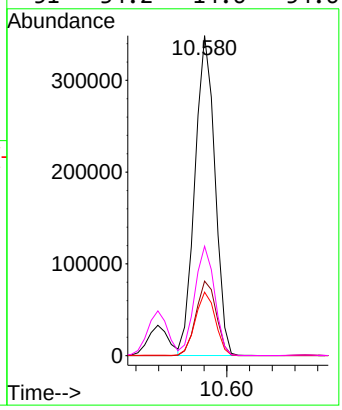


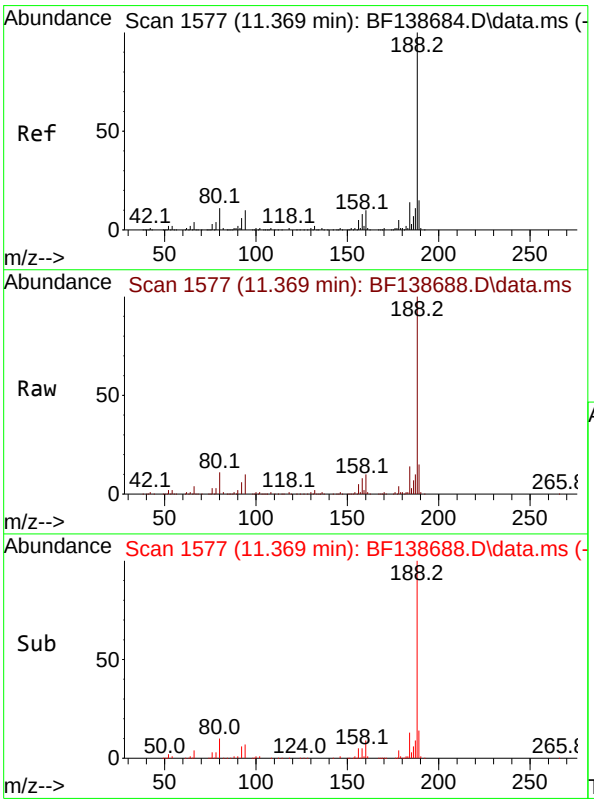

#63
Azobenzene
Concen: 38.622 ng
RT: 10.580 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF073024

Tgt Ion: 77 Resp: 426075

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 182 | 23.3 | 3.4 | 43.4 |
| 105 | 19.9 | 0.2 | 40.2 |
| 51 | 34.2 | 14.6 | 54.6 |

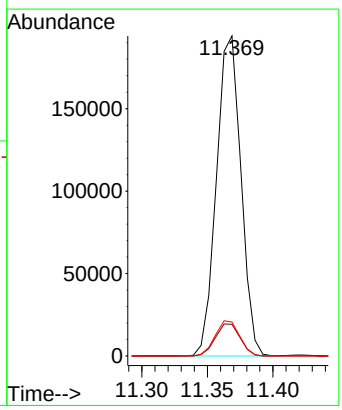


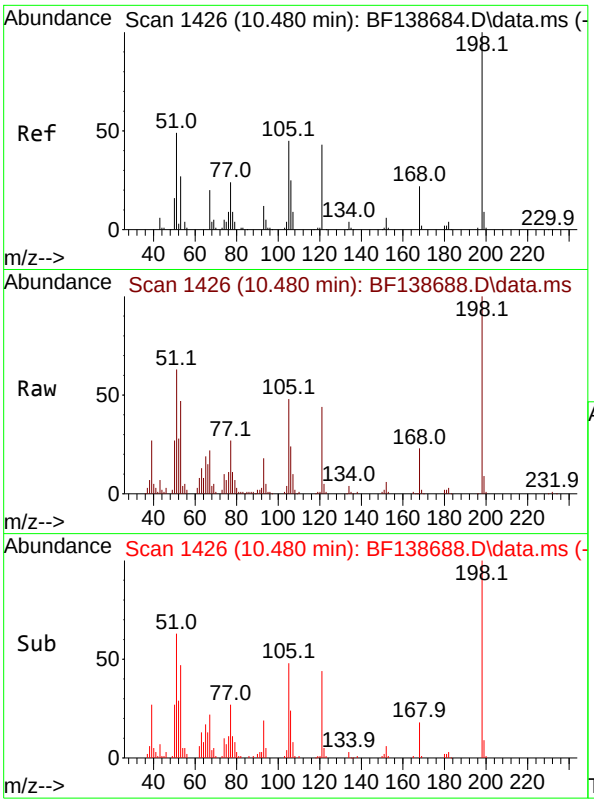




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.369 min Scan# 1577
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:188 Resp: 252048

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 9.9 | 7.6 | 11.4 |
| 80 | 10.6 | 8.6 | 12.8 |



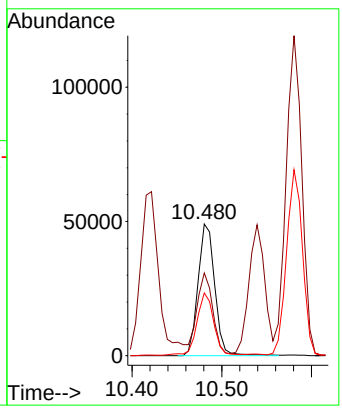


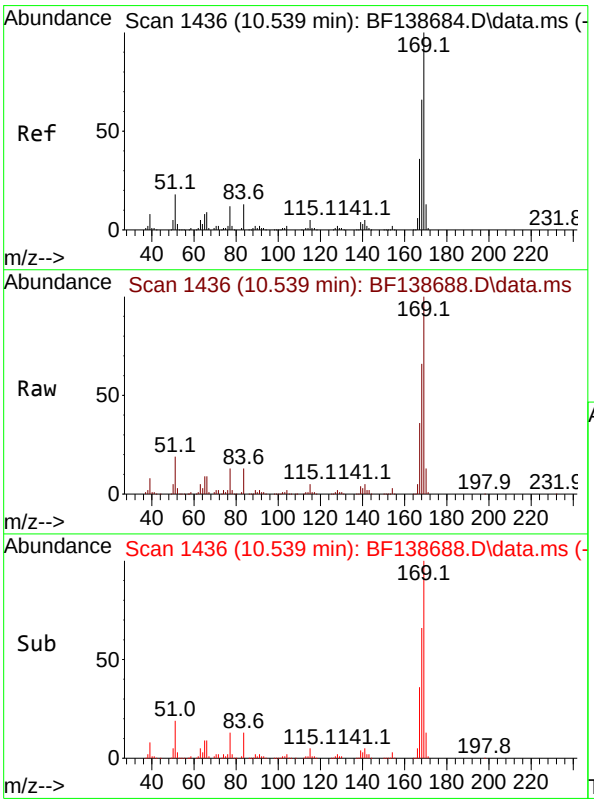

#65
4,6-Dinitro-2-methylphenol
Concen: 41.323 ng
RT: 10.480 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF073024

Tgt Ion:198 Resp: 63542

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 62.8 | 39.9 | 79.9 |
| 105 | 47.6 | 26.1 | 66.1 |

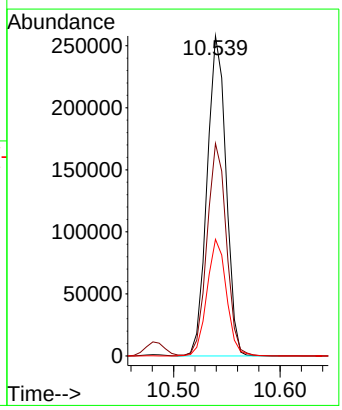


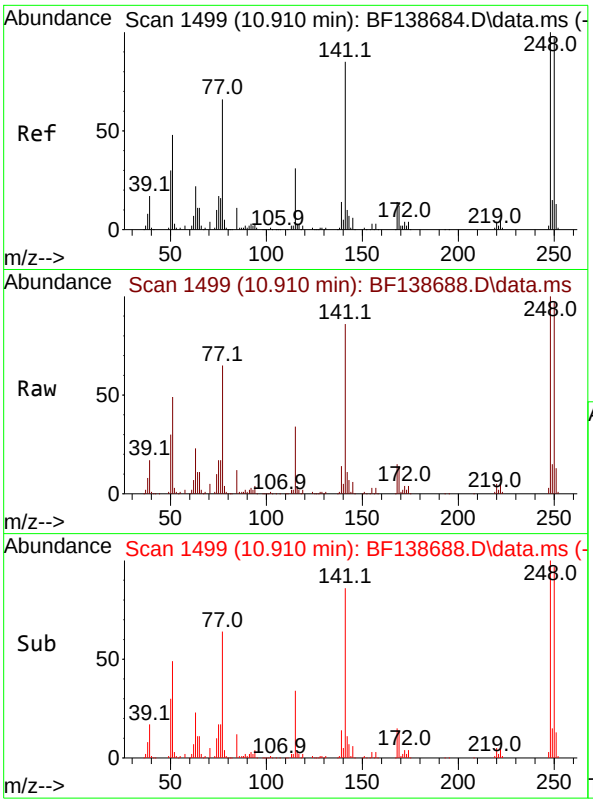




#66
n-Nitrosodiphenylamine
Concen: 40.561 ng
RT: 10.539 min Scan# 1436
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:169 Resp: 319562

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 66.4 | 53.0 | 79.6 |
| 167 | 36.5 | 29.0 | 43.6 |



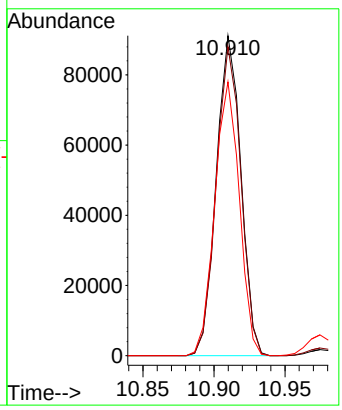


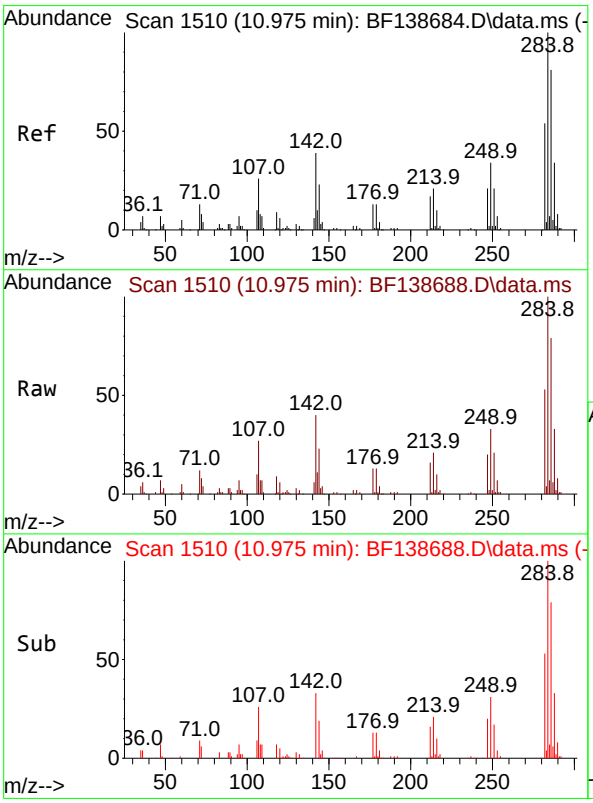

#67
4-Bromophenyl-phenylether
Concen: 40.390 ng
RT: 10.910 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF073024

Tgt Ion:248 Resp: 110219

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 96.6 | 77.7 | 116.5 |
| 141 | 85.6 | 68.0 | 102.0 |

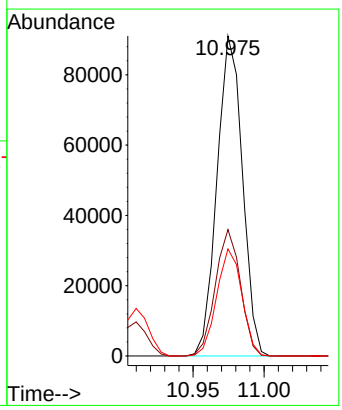


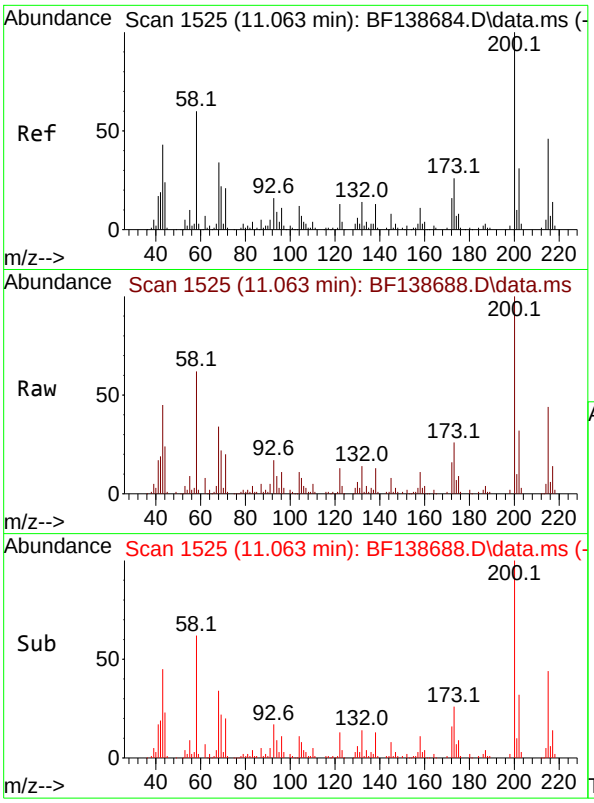




#68
Hexachlorobenzene
Concen: 40.147 ng
RT: 10.975 min Scan# 1510
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:284 Resp: 113117

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 39.5 | 31.3 | 46.9 |
| 249 | 33.5 | 27.2 | 40.8 |



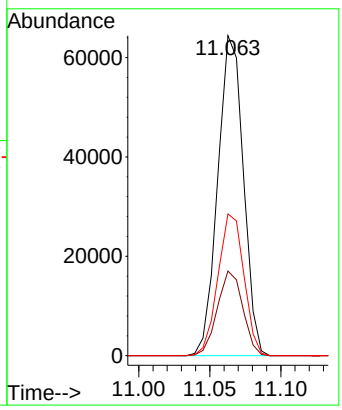


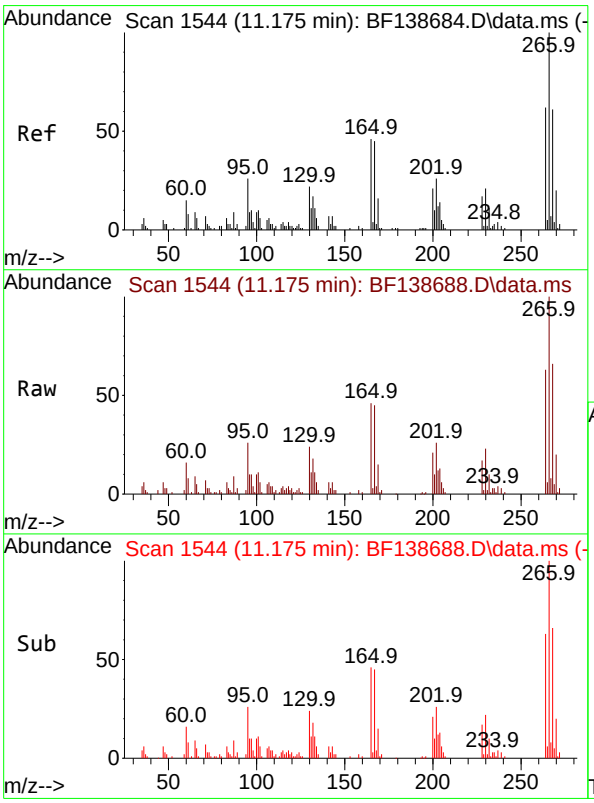

#69
Atrazine
Concen: 39.654 ng
RT: 11.063 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF073024

Tgt Ion:200 Resp: 80604

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 26.5 | 6.0 | 46.0 |
| 215 | 44.3 | 26.1 | 66.1 |

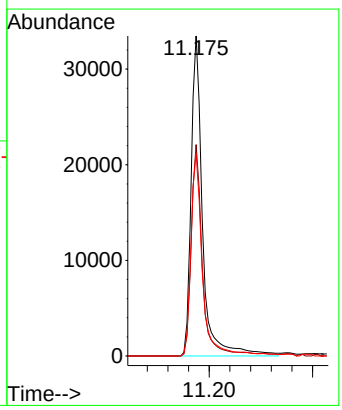


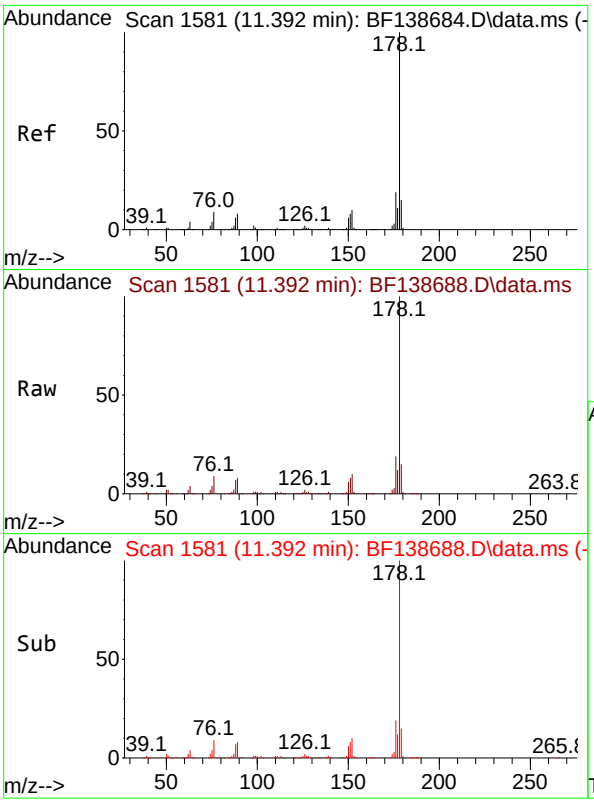




#70
Pentachlorophenol
Concen: 40.788 ng
RT: 11.175 min Scan# 1544
Delta R.T. -0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:266 Resp: 51801

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 268 | 66.0 | 49.2 | 73.8 |
| 264 | 63.4 | 49.8 | 74.6 |



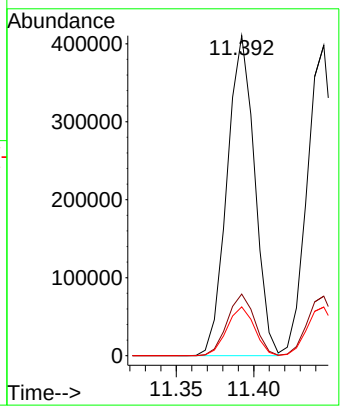


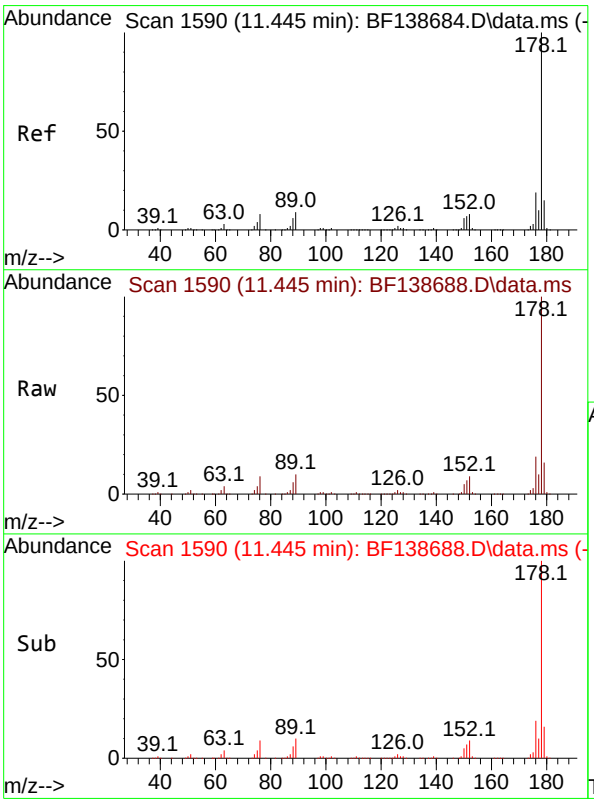

#71
Phenanthrene
Concen: 39.036 ng
RT: 11.392 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF073024

Tgt Ion:178 Resp: 506626

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.2 | 15.4 | 23.0 |
| 179 | 15.3 | 12.2 | 18.2 |

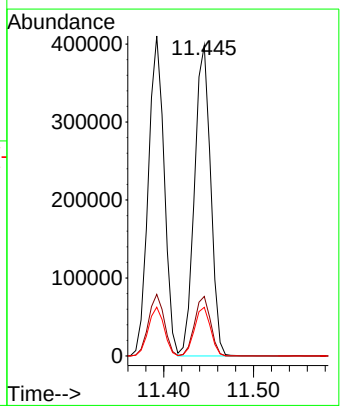


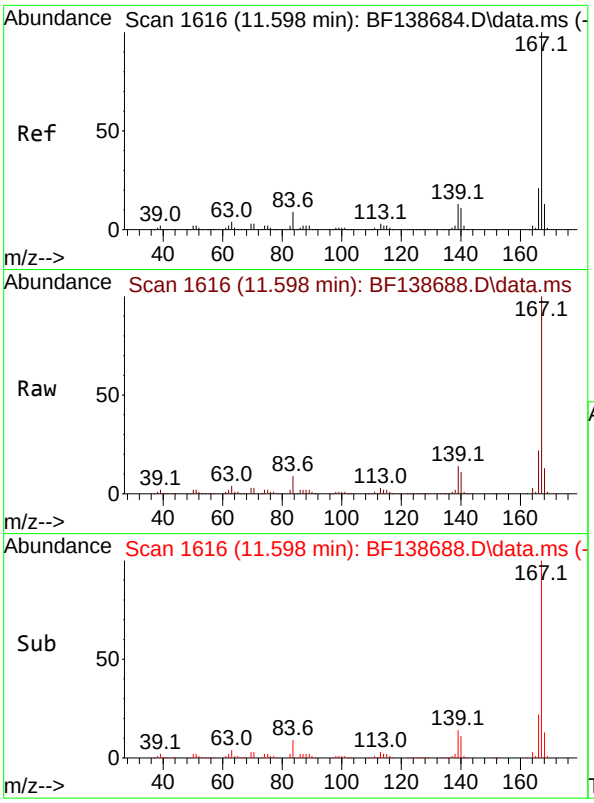




#72
Anthracene
Concen: 38.817 ng
RT: 11.445 min Scan# 1590
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:178 Resp: 496297

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.2 | 14.9 | 22.3 |
| 179 | 15.7 | 12.4 | 18.6 |



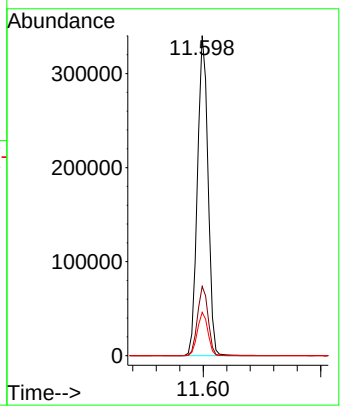


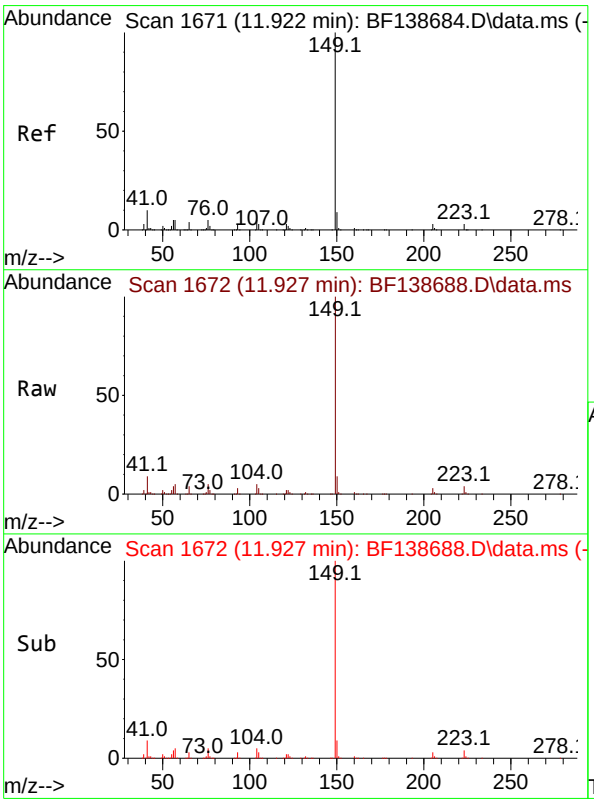

#73
Carbazole
Concen: 38.546 ng
RT: 11.598 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF073024

Tgt Ion:167 Resp: 425187

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 21.6 | 17.2 | 25.8 |
| 139 | 13.6 | 10.6 | 16.0 |

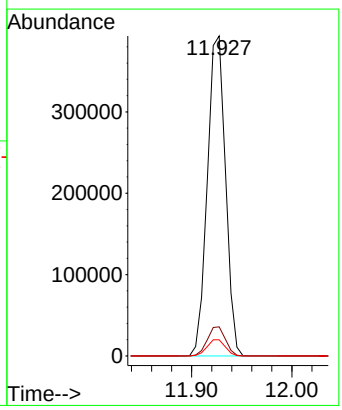


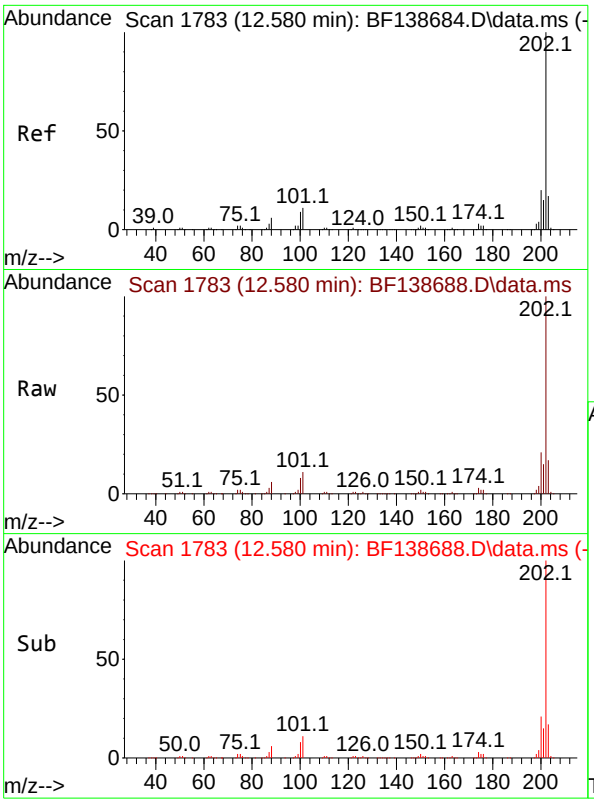




#74
Di-n-butylphthalate
Concen: 40.010 ng
RT: 11.927 min Scan# 1672
Delta R.T. 0.006 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:149 Resp: 496140

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 9.1 | 7.4 | 11.0 |
| 104 | 5.0 | 4.1 | 6.1 |



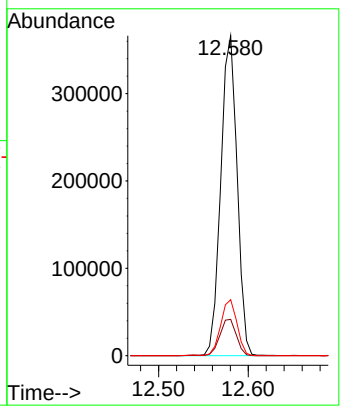


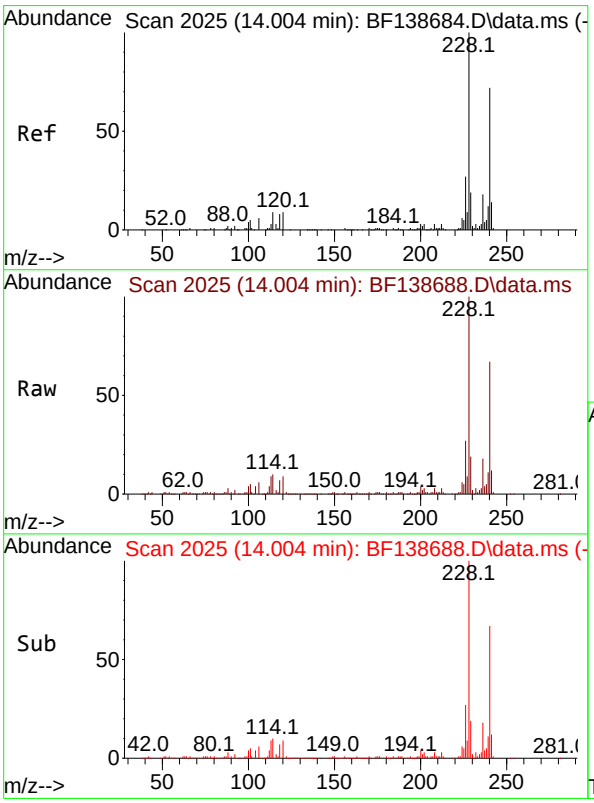

#75
Fluoranthene
Concen: 38.250 ng
RT: 12.580 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF073024

Tgt Ion:202 Resp: 463445

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.3 | 0.0 | 31.2 |
| 203 | 17.5 | 0.0 | 37.3 |

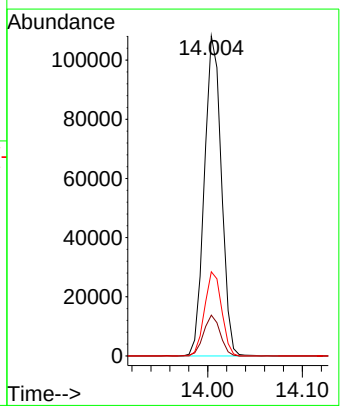


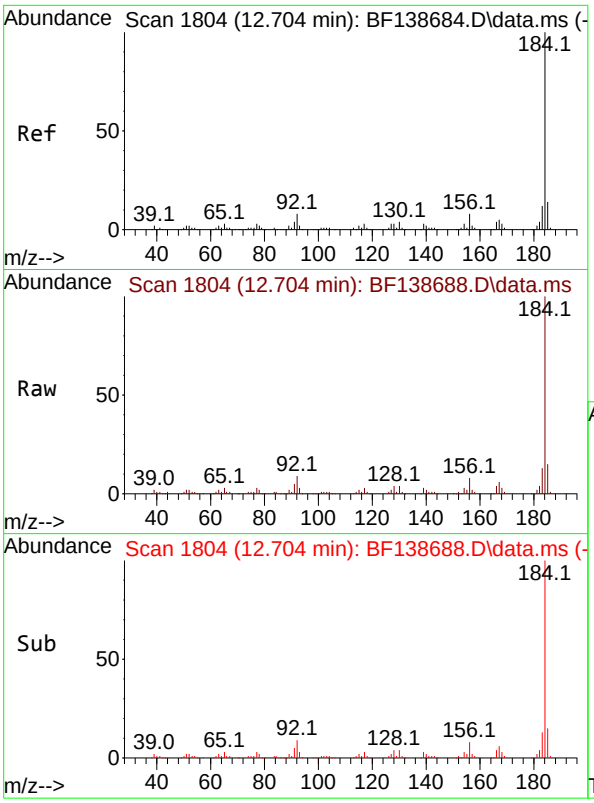




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.004 min Scan# 2025
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:240 Resp: 134464

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 12.7 | 10.2 | 15.4 |
| 236 | 26.3 | 19.8 | 29.8 |



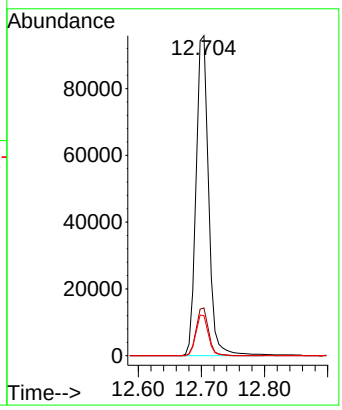


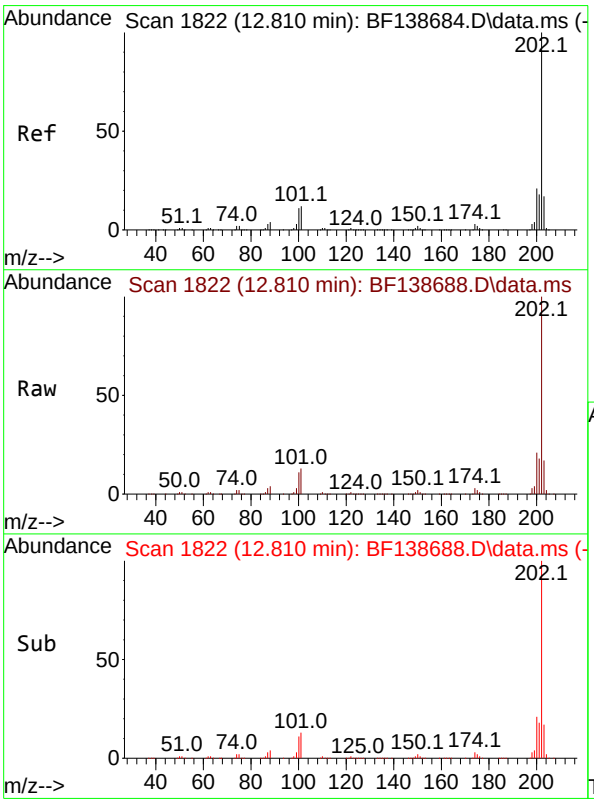

#77
Benzidine
Concen: 41.166 ng
RT: 12.704 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF073024

Tgt Ion:184 Resp: 132396

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 185 | 14.9 | 11.1 | 16.7 |
| 183 | 12.5 | 9.6 | 14.4 |

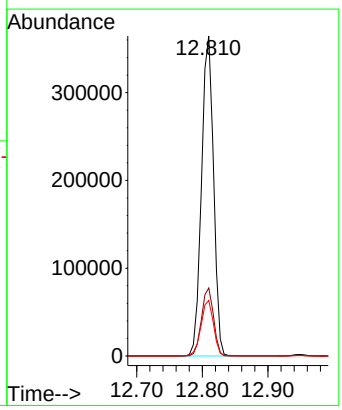


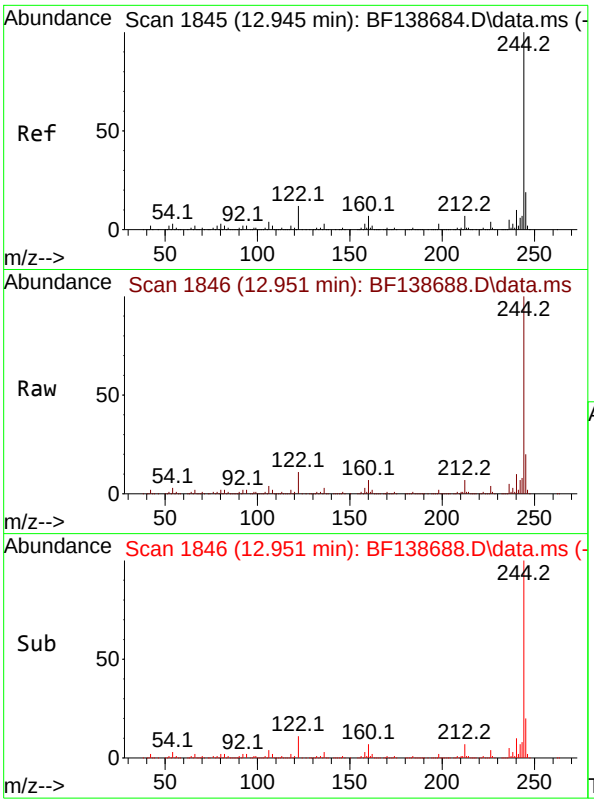




#78
Pyrene
Concen: 36.907 ng
RT: 12.810 min Scan# 1822
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:202 Resp: 467254

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.3 | 16.8 | 25.2 |
| 203 | 17.3 | 13.8 | 20.6 |



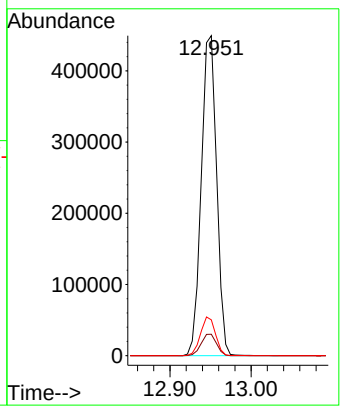


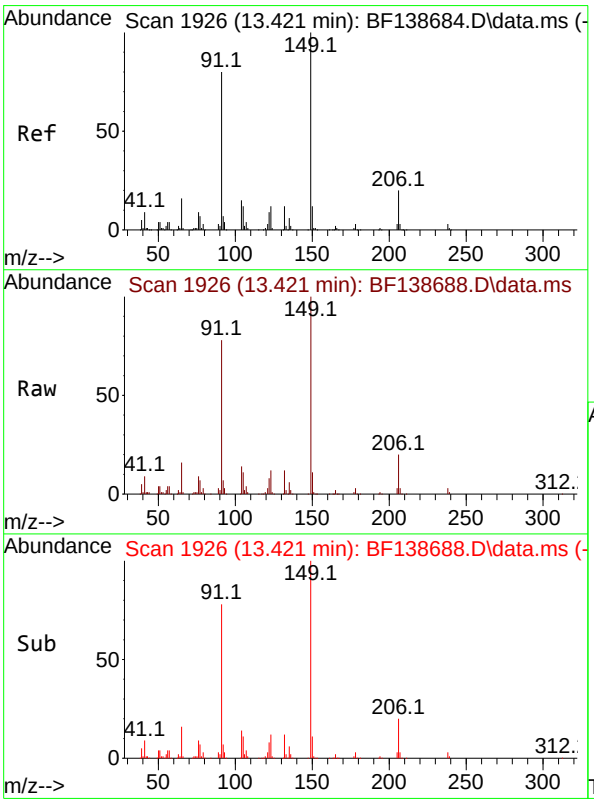

#79
Terphenyl-d14
Concen: 73.396 ng
RT: 12.951 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF073024

Tgt Ion:244 Resp: 589459

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 6.7 | 5.4 | 8.2 |
| 122 | 11.2 | 9.6 | 14.4 |

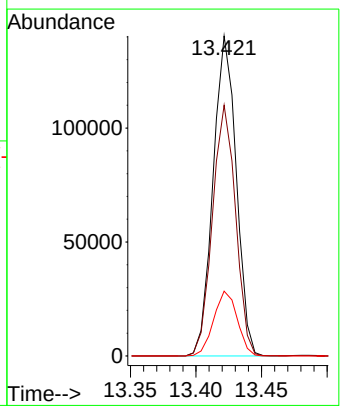


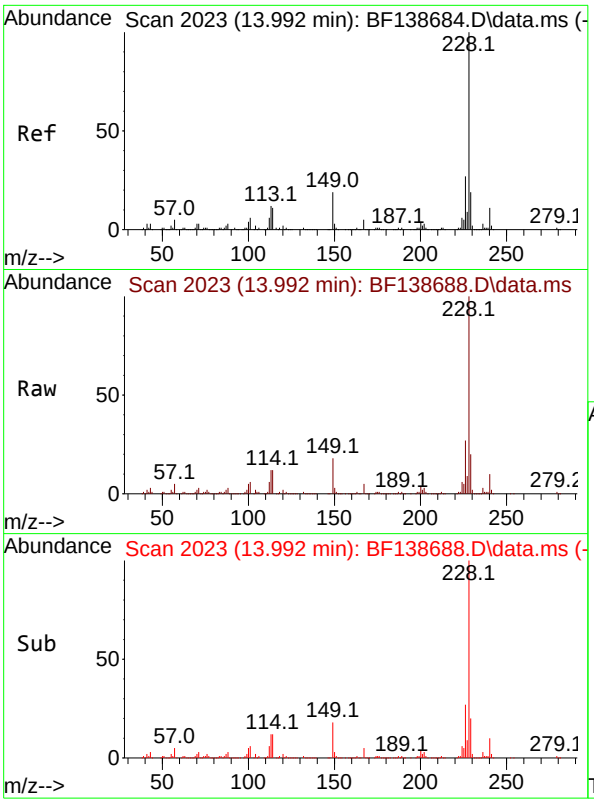




#80
Butylbenzylphthalate
Concen: 42.425 ng
RT: 13.421 min Scan# 1926
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:149 Resp: 171996

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 91 | 78.3 | 63.7 | 95.5 |
| 206 | 20.3 | 16.2 | 24.2 |



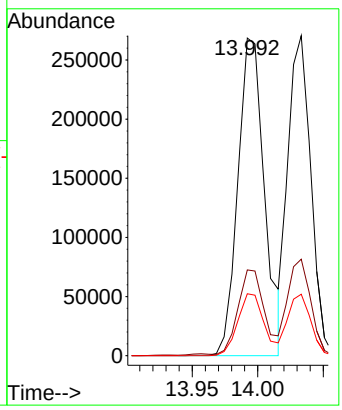


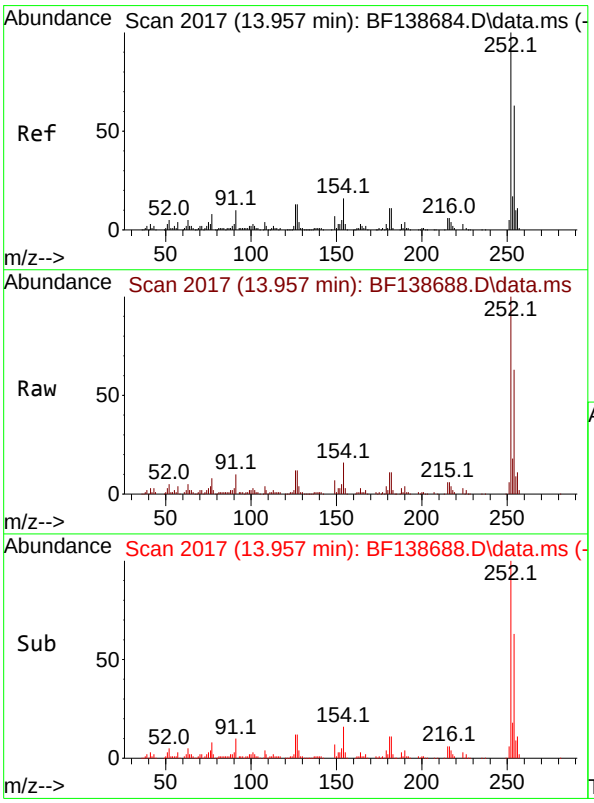

#81
Benzo(a)anthracene
Concen: 40.994 ng
RT: 13.992 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF073024

Tgt Ion:228 Resp: 379585

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.0 | 22.1 | 33.1 |
| 229 | 19.5 | 15.4 | 23.0 |

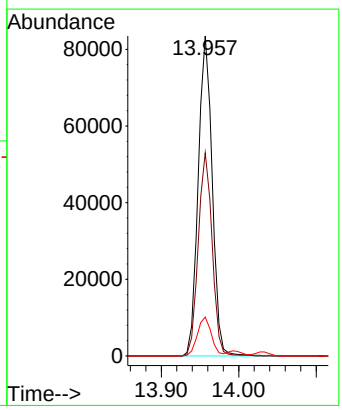


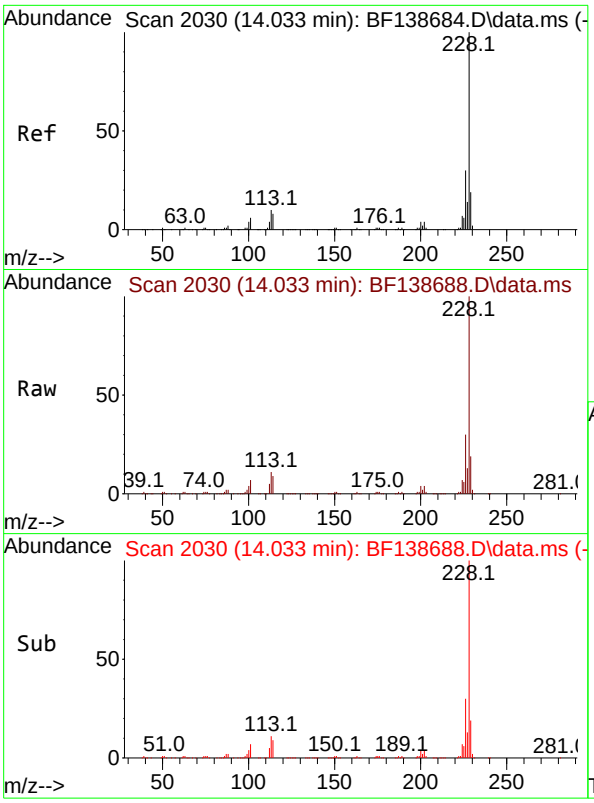




#82
3,3'-Dichlorobenzidine
Concen: 44.160 ng
RT: 13.957 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:252 Resp: 104638

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 63.5 | 50.8 | 76.2 |
| 126 | 12.1 | 10.2 | 15.2 |



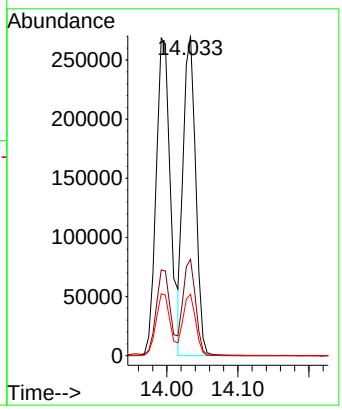


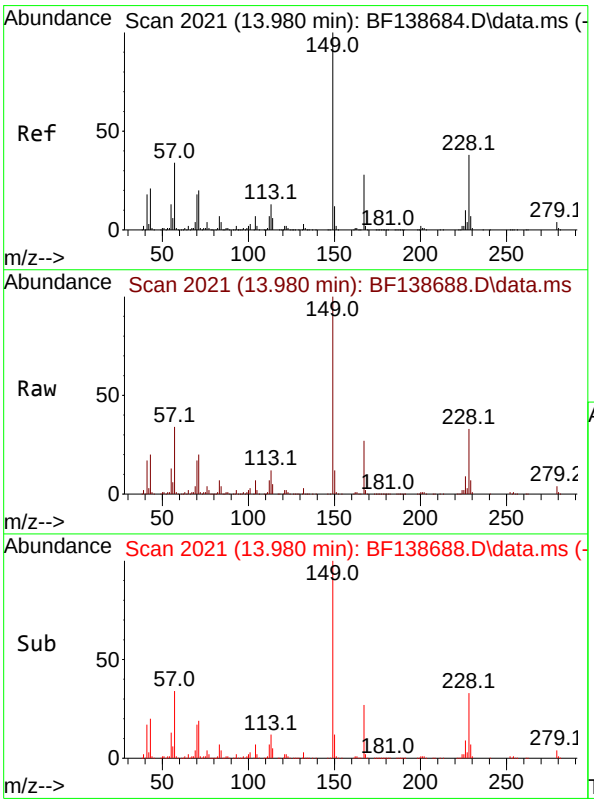

#83
Chrysene
Concen: 39.308 ng
RT: 14.033 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF073024

Tgt Ion:228 Resp: 328373

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.1 | 23.7 | 35.5 |
| 229 | 19.2 | 15.0 | 22.6 |

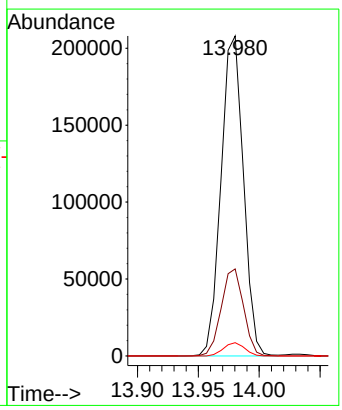


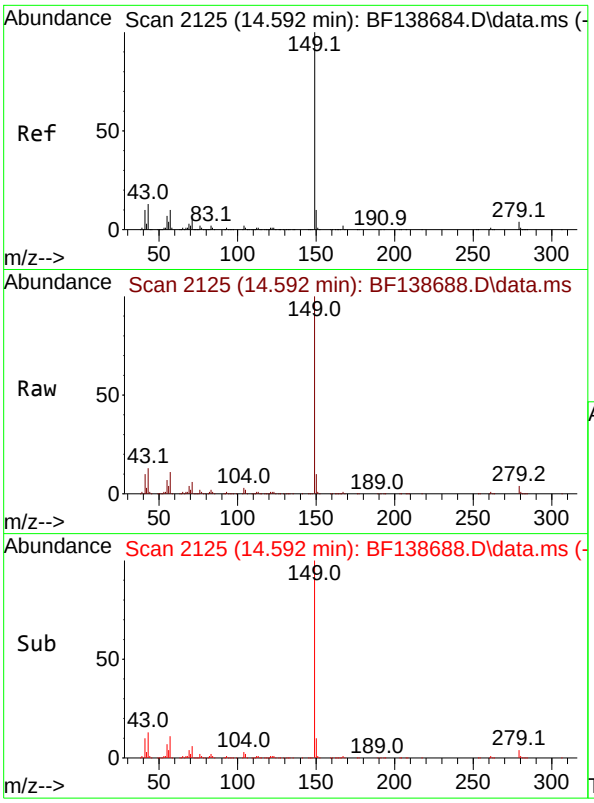




#84
Bis(2-ethylhexyl)phthalate
Concen: 44.921 ng
RT: 13.980 min Scan# 2021
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:149 Resp: 266678

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 27.2 | 22.2 | 33.4 |
| 279 | 4.2 | 3.4 | 5.0 |



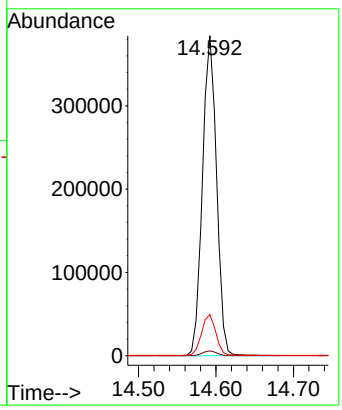


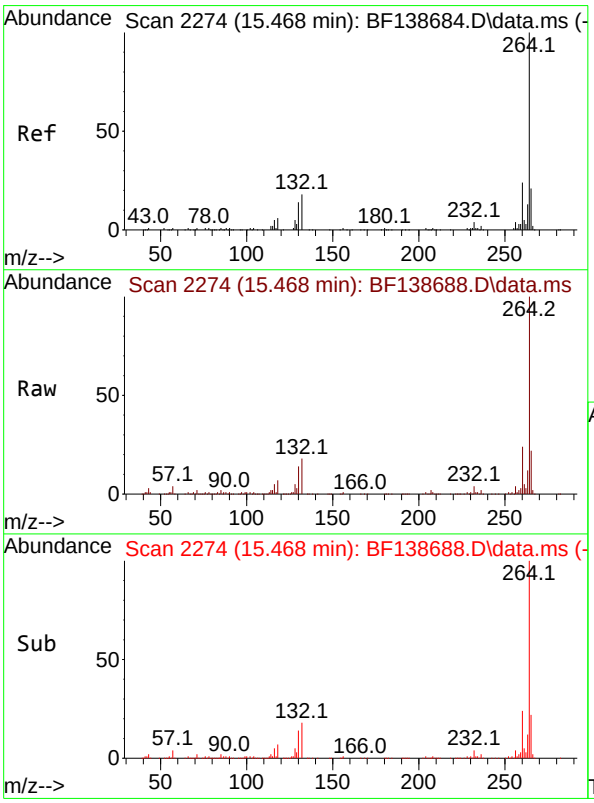

#85
Di-n-octyl phthalate
Concen: 44.183 ng
RT: 14.592 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF073024

Tgt Ion:149 Resp: 485296

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 1.5 | 1.4 | 2.0 |
| 43 | 13.0 | 10.4 | 15.6 |

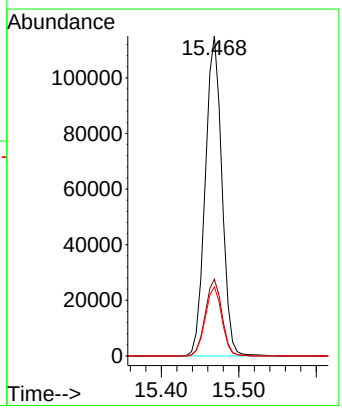


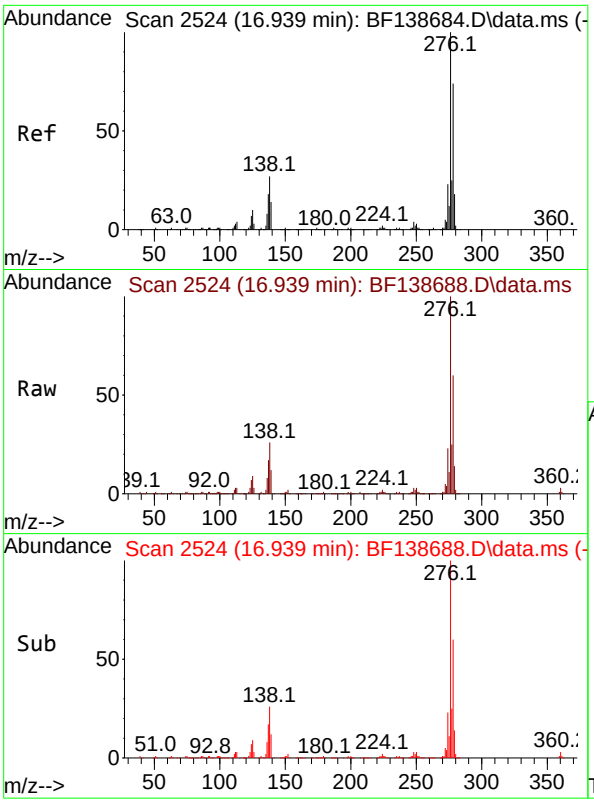




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.468 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:264 Resp: 171097

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 24.0 | 19.0 | 28.6 |
| 265 | 21.6 | 17.0 | 25.6 |



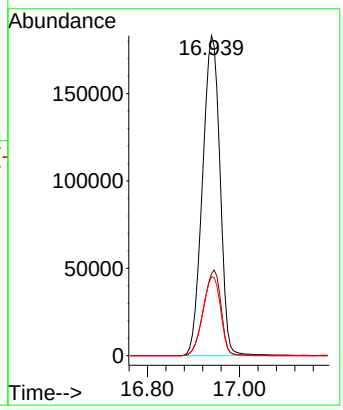


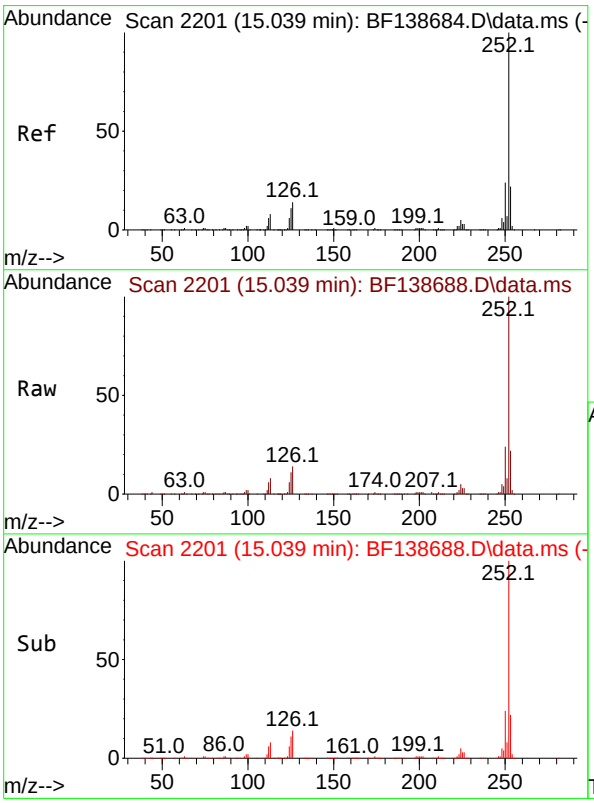

#87
Indeno(1,2,3-cd)pyrene
Concen: 39.463 ng
RT: 16.939 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF073024

Tgt Ion:276 Resp: 483878

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 26.8 | 21.8 | 32.8 |
| 277 | 25.2 | 20.6 | 30.8 |

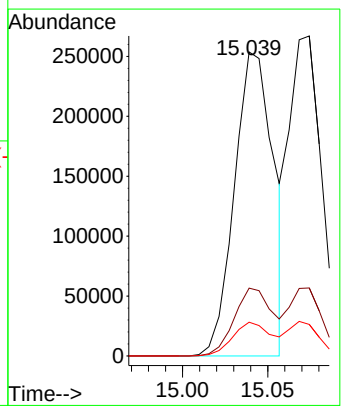


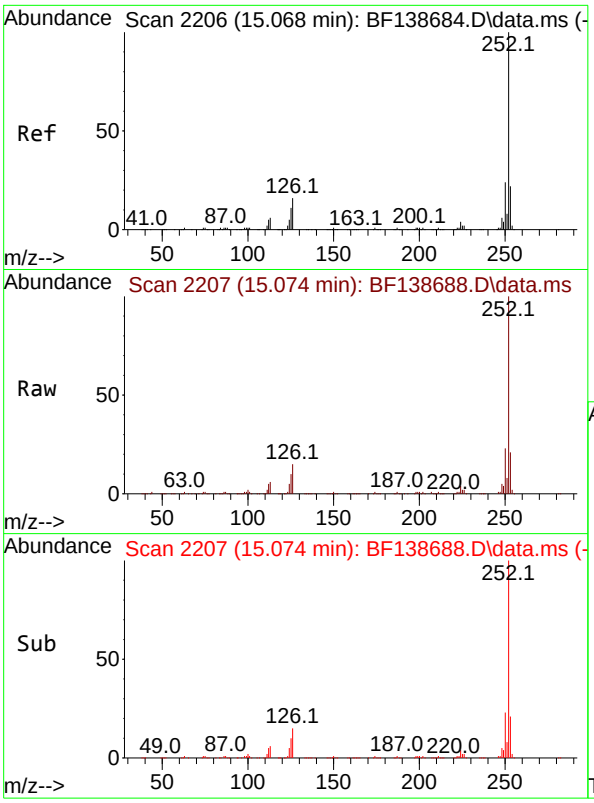




#88
Benzo(b)fluoranthene
Concen: 38.172 ng
RT: 15.039 min Scan# 2201
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:252 Resp: 404868

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.3 | 17.5 | 26.3 |
| 125 | 11.1 | 8.9 | 13.3 |



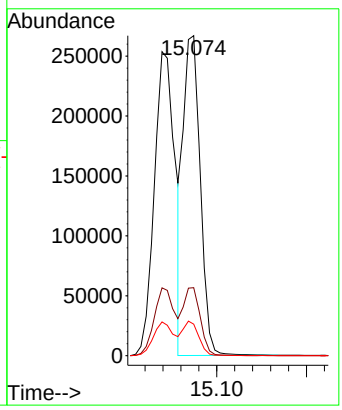


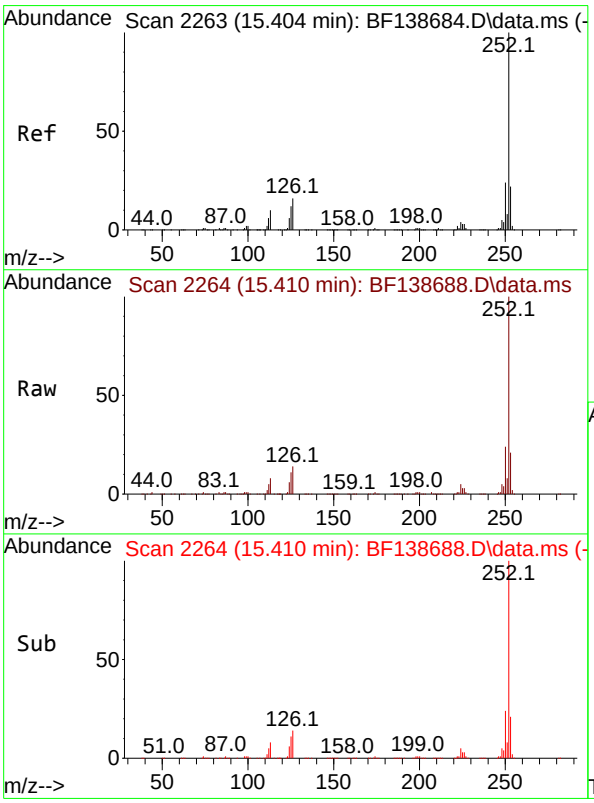

#89
Benzo(k)fluoranthene
Concen: 38.430 ng
RT: 15.074 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF073024

Tgt Ion:252 Resp: 352910

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.3 | 17.4 | 26.0 |
| 125 | 9.9 | 8.6 | 13.0 |

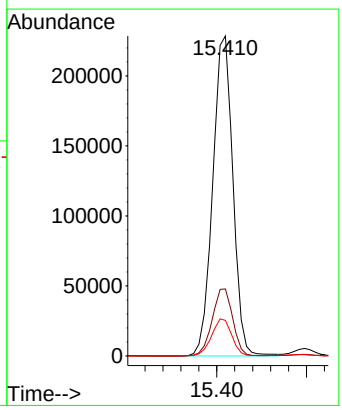


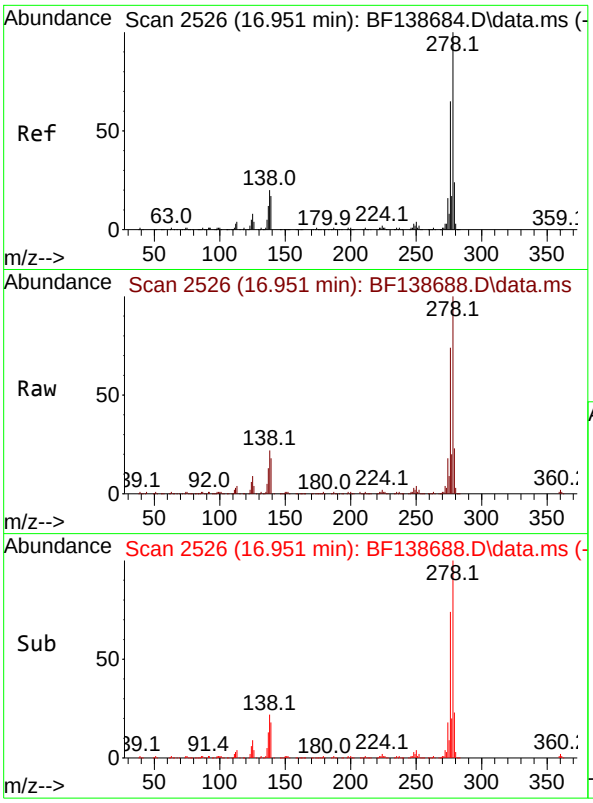




#90
Benzo(a)pyrene
Concen: 39.920 ng
RT: 15.410 min Scan# 2264
Delta R.T. 0.006 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:252 Resp: 356148

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.0 | 17.3 | 25.9 |
| 125 | 11.1 | 9.5 | 14.3 |



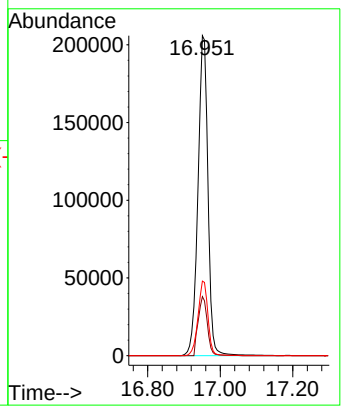


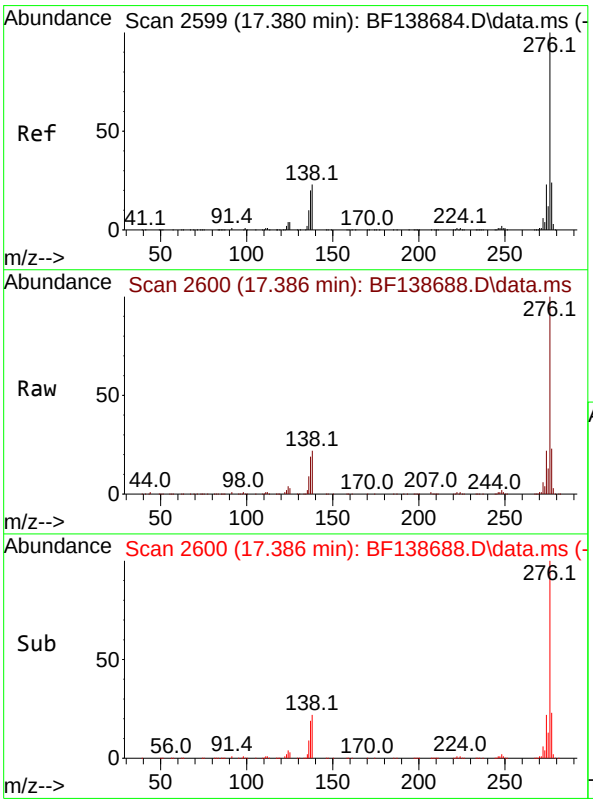

#91
Dibenzo(a,h)anthracene
Concen: 39.089 ng
RT: 16.951 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF073024

Tgt Ion:278 Resp: 393430

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 18.4 | 14.0 | 21.0 |
| 279 | 23.3 | 19.0 | 28.4 |

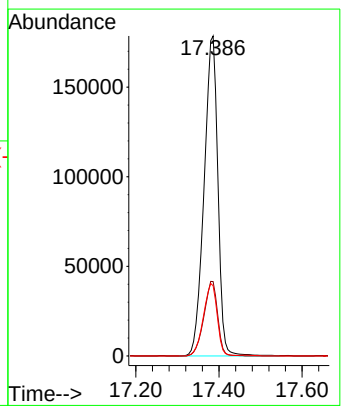



#92
Benzo(g,h,i)perylene
Concen: 39.457 ng
RT: 17.386 min Scan# 2600
Delta R.T. 0.006 min
Lab File: BF138688.D
Acq: 30 Jul 2024 17:55

Tgt Ion:276 Resp: 412115

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 23.3 | 19.0 | 28.4 |
| 138 | 22.0 | 18.5 | 27.7 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138688.D
Acq On : 30 Jul 2024 17:55
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF073024

Quant Time: Jul 30 18:15:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 113 | 0.00 |
| 2 | | 1,4-Dioxane | 0.567 | 0.565 | 0.4 | 111 | 0.00 |
| 3 | | Pyridine | 1.374 | 1.390 | -1.2 | 113 | 0.00 |
| 4 | | n-Nitrosodimethylamine | 0.818 | 0.806 | 1.5 | 112 | 0.01 |
| 5 | S | 2-Fluorophenol | 1.296 | 1.266 | 2.3 | 112 | 0.00 |
| 6 | | Aniline | 1.551 | 1.559 | -0.5 | 115 | 0.00 |
| 7 | S | Phenol-d6 | 1.740 | 1.687 | 3.0 | 113 | 0.00 |
| 8 | | 2-Chlorophenol | 1.363 | 1.326 | 2.7 | 113 | 0.00 |
| 9 | | Benzaldehyde | 1.043 | 0.988 | 5.3 | 123 | 0.00 |
| 10 | C | Phenol | 1.832 | 1.753 | 4.3 | 111 | 0.00 |
| 11 | | bis(2-Chloroethyl)ether | 1.409 | 1.354 | 3.9 | 112 | 0.00 |
| 12 | | 1,3-Dichlorobenzene | 1.526 | 1.476 | 3.3 | 113 | 0.00 |
| 13 | C | 1,4-Dichlorobenzene | 1.540 | 1.489 | 3.3 | 112 | 0.00 |
| 14 | | 1,2-Dichlorobenzene | 1.439 | 1.385 | 3.8 | 111 | 0.00 |
| 15 | | Benzyl Alcohol | 1.254 | 1.226 | 2.2 | 114 | 0.00 |
| 16 | | 2,2'-oxybis(1-Chloropropane | 2.426 | 2.312 | 4.7 | 111 | 0.00 |
| 17 | | 2-Methylphenol | 1.126 | 1.088 | 3.4 | 111 | 0.00 |
| 18 | | Hexachloroethane | 0.580 | 0.571 | 1.6 | 113 | 0.00 |
| 19 | P | n-Nitroso-di-n-propylamine | 1.051 | 0.983 | 6.5 | 112 | 0.00 |
| 20 | | 3+4-Methylphenols | 1.444 | 1.352 | 6.4 | 112 | 0.00 |
| 21 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 112 | 0.00 |
| 22 | | Acetophenone | 0.490 | 0.479 | 2.2 | 112 | 0.00 |
| 23 | S | Nitrobenzene-d5 | 0.409 | 0.411 | -0.5 | 114 | 0.00 |
| 24 | | Nitrobenzene | 0.416 | 0.415 | 0.2 | 112 | 0.00 |
| 25 | | Isophorone | 0.699 | 0.686 | 1.9 | 113 | 0.00 |
| 26 | C | 2-Nitrophenol | 0.179 | 0.182 | -1.7 | 111 | 0.00 |
| 27 | | 2,4-Dimethylphenol | 0.214 | 0.216 | -0.9 | 113 | 0.00 |
| 28 | | bis(2-Chloroethoxy)methane | 0.425 | 0.421 | 0.9 | 113 | 0.00 |
| 29 | C | 2,4-Dichlorophenol | 0.275 | 0.279 | -1.5 | 114 | 0.00 |
| 30 | | 1,2,4-Trichlorobenzene | 0.318 | 0.315 | 0.9 | 112 | 0.00 |
| 31 | | Naphthalene | 1.053 | 1.033 | 1.9 | 111 | 0.00 |
| 32 | | Benzoic acid | 0.168 | 0.175 | -4.2 | 118 | 0.01 |
| 33 | | 4-Chloroaniline | 0.353 | 0.354 | -0.3 | 115 | 0.00 |
| 34 | C | Hexachlorobutadiene | 0.192 | 0.196 | -2.1 | 116 | 0.00 |
| 35 | | Caprolactam | 0.082 | 0.079 | 3.7 | 113 | 0.00 |
| 36 | C | 4-Chloro-3-methylphenol | 0.315 | 0.308 | 2.2 | 113 | 0.00 |
| 37 | | 2-Methylnaphthalene | 0.665 | 0.646 | 2.9 | 112 | 0.00 |
| 38 | | 1-Methylnaphthalene | 0.652 | 0.630 | 3.4 | 111 | 0.00 |
| 39 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 112 | 0.00 |
| 40 | | 1,2,4,5-Tetrachlorobenzene | 0.556 | 0.563 | -1.3 | 114 | 0.00 |
| 41 | P | Hexachlorocyclopentadiene | 0.120 | 0.142 | -18.3 | 125 | 0.00 |
| 42 | S | 2,4,6-Tribromophenol | 0.164 | 0.159 | 3.0 | 111 | 0.00 |
| 43 | C | 2,4,6-Trichlorophenol | 0.339 | 0.342 | -0.9 | 114 | 0.00 |
| 44 | | 2,4,5-Trichlorophenol | 0.370 | 0.380 | -2.7 | 115 | 0.00 |
| 45 | S | 2-Fluorobiphenyl | 1.331 | 1.306 | 1.9 | 112 | 0.00 |
| 46 | | 1,1'-Biphenyl | 1.566 | 1.572 | -0.4 | 114 | 0.00 |
| 47 | | 2-Chloronaphthalene | 1.165 | 1.164 | 0.1 | 113 | 0.00 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138688.D
Acq On : 30 Jul 2024 17:55
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF073024

Quant Time: Jul 30 18:15:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 48 | | 2-Nitroaniline | 0.395 | 0.390 | 1.3 | 112 | 0.00 |
| 49 | | Acenaphthylene | 1.652 | 1.632 | 1.2 | 111 | 0.00 |
| 50 | | Dimethylphthalate | 1.279 | 1.230 | 3.8 | 112 | 0.00 |
| 51 | | 2,6-Dinitrotoluene | 0.289 | 0.288 | 0.3 | 112 | 0.00 |
| 52 | C | Acenaphthene | 1.111 | 1.096 | 1.4 | 113 | 0.00 |
| 53 | | 3-Nitroaniline | 0.298 | 0.286 | 4.0 | 111 | 0.00 |
| 54 | P | 2,4-Dinitrophenol | 0.133 | 0.130 | 2.3 | 114 | 0.00 |
| 55 | | Dibenzofuran | 1.568 | 1.529 | 2.5 | 113 | 0.00 |
| 56 | P | 4-Nitrophenol | 0.179 | 0.176 | 1.7 | 113 | 0.00 |
| 57 | | 2,4-Dinitrotoluene | 0.368 | 0.356 | 3.3 | 110 | 0.00 |
| 58 | | Fluorene | 1.249 | 1.207 | 3.4 | 112 | 0.00 |
| 59 | | 2,3,4,6-Tetrachlorophenol | 0.283 | 0.274 | 3.2 | 112 | 0.00 |
| 60 | | Diethylphthalate | 1.213 | 1.165 | 4.0 | 113 | 0.00 |
| 61 | | 4-Chlorophenyl-phenylether | 0.614 | 0.600 | 2.3 | 114 | 0.00 |
| 62 | | 4-Nitroaniline | 0.284 | 0.273 | 3.9 | 112 | 0.00 |
| 63 | | Azobenzene | 1.345 | 1.299 | 3.4 | 112 | 0.00 |
| 64 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 111 | 0.00 |
| 65 | | 4,6-Dinitro-2-methylphenol | 0.122 | 0.126 | -3.3 | 112 | 0.00 |
| 66 | c | n-Nitrosodiphenylamine | 0.625 | 0.634 | -1.4 | 111 | 0.00 |
| 67 | | 4-Bromophenyl-phenylether | 0.217 | 0.219 | -0.9 | 112 | 0.00 |
| 68 | | Hexachlorobenzene | 0.224 | 0.224 | 0.0 | 113 | 0.00 |
| 69 | | Atrazine | 0.161 | 0.160 | 0.6 | 109 | 0.00 |
| 70 | C | Pentachlorophenol | 0.101 | 0.103 | -2.0 | 111 | 0.00 |
| 71 | | Phenanthrene | 1.030 | 1.005 | 2.4 | 109 | 0.00 |
| 72 | | Anthracene | 1.015 | 0.985 | 3.0 | 109 | 0.00 |
| 73 | | Carbazole | 0.875 | 0.843 | 3.7 | 107 | 0.00 |
| 74 | | Di-n-butylphthalate | 0.984 | 0.984 | 0.0 | 110 | 0.00 |
| 75 | C | Fluoranthene | 0.961 | 0.919 | 4.4 | 106 | 0.00 |
| 76 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 107 | 0.00 |
| 77 | | Benzidine | 0.478 | 0.492 | -2.9 | 98 | 0.00 |
| 78 | | Pyrene | 1.883 | 1.737 | 7.8 | 106 | 0.00 |
| 79 | S | Terphenyl-d14 | 1.195 | 1.096 | 8.3 | 106 | 0.00 |
| 80 | | Butylbenzylphthalate | 0.603 | 0.640 | -6.1 | 109 | 0.00 |
| 81 | | Benzo(a)anthracene | 1.377 | 1.411 | -2.5 | 108 | 0.00 |
| 82 | | 3,3'-Dichlorobenzidine | 0.352 | 0.389 | -10.5 | 116 | 0.00 |
| 83 | | Chrysene | 1.243 | 1.221 | 1.8 | 107 | 0.00 |
| 84 | | Bis(2-ethylhexyl)phthalate | 0.883 | 0.992 | -12.3 | 112 | 0.00 |
| 85 | c | Di-n-octyl phthalate | 1.634 | 1.805 | -10.5 | 111 | 0.00 |
| 86 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 113 | 0.00 |
| 87 | | Indeno(1,2,3-cd)pyrene | 1.433 | 1.414 | 1.3 | 114 | 0.00 |
| 88 | | Benzo(b)fluoranthene | 1.240 | 1.183 | 4.6 | 109 | 0.00 |
| 89 | | Benzo(k)fluoranthene | 1.073 | 1.031 | 3.9 | 116 | 0.00 |
| 90 | C | Benzo(a)pyrene | 1.043 | 1.041 | 0.2 | 115 | 0.00 |
| 91 | | Dibenzo(a,h)anthracene | 1.177 | 1.150 | 2.3 | 115 | 0.00 |
| 92 | | Benzo(g,h,i)perylene | 1.221 | 1.204 | 1.4 | 113 | 0.00 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138688.D
Acq On : 30 Jul 2024 17:55
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF073024

Quant Time: Jul 30 18:15:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| Compound | AvgRF | CCRF | %Dev Area% | Dev(min) |
|---|---|---|---|---|

(#) = Out of Range SPCC's out = 0 CCC's out = 0

# Evaluate Continuing Calibration Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138688.D
Acq On : 30 Jul 2024 17:55
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF073024

Quant Time: Jul 30 18:15:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 1,4-Dichlorobenzene-d4 | 20.000 | 20.000 | 0.0 | 113 | 0.00 |
| 2 | | 1,4-Dioxane | 40.000 | 39.808 | 0.5 | 111 | 0.00 |
| 3 | | Pyridine | 40.000 | 40.463 | -1.2 | 113 | 0.00 |
| 4 | | n-Nitrosodimethylamine | 40.000 | 39.391 | 1.5 | 112 | 0.01 |
| 5 | S | 2-Fluorophenol | 80.000 | 78.171 | 2.3 | 112 | 0.00 |
| 6 | | Aniline | 40.000 | 40.197 | -0.5 | 115 | 0.00 |
| 7 | S | Phenol-d6 | 80.000 | 77.578 | 3.0 | 113 | 0.00 |
| 8 | | 2-Chlorophenol | 40.000 | 38.895 | 2.8 | 113 | 0.00 |
| 9 | | Benzaldehyde | 40.000 | 37.898 | 5.3 | 123 | 0.00 |
| 10 | C | Phenol | 40.000 | 38.277 | 4.3 | 111 | 0.00 |
| 11 | | bis(2-Chloroethyl)ether | 40.000 | 38.433 | 3.9 | 112 | 0.00 |
| 12 | | 1,3-Dichlorobenzene | 40.000 | 38.692 | 3.3 | 113 | 0.00 |
| 13 | C | 1,4-Dichlorobenzene | 40.000 | 38.668 | 3.3 | 112 | 0.00 |
| 14 | | 1,2-Dichlorobenzene | 40.000 | 38.492 | 3.8 | 111 | 0.00 |
| 15 | | Benzyl Alcohol | 40.000 | 39.118 | 2.2 | 114 | 0.00 |
| 16 | | 2,2'-oxybis(1-Chloropropane | 40.000 | 38.127 | 4.7 | 111 | 0.00 |
| 17 | | 2-Methylphenol | 40.000 | 38.649 | 3.4 | 111 | 0.00 |
| 18 | | Hexachloroethane | 40.000 | 39.384 | 1.5 | 113 | 0.00 |
| 19 | P | n-Nitroso-di-n-propylamine | 40.000 | 37.442 | 6.4 | 112 | 0.00 |
| 20 | | 3+4-Methylphenols | 40.000 | 37.436 | 6.4 | 112 | 0.00 |
| 21 | I | Naphthalene-d8 | 20.000 | 20.000 | 0.0 | 112 | 0.00 |
| 22 | | Acetophenone | 40.000 | 39.095 | 2.3 | 112 | 0.00 |
| 23 | S | Nitrobenzene-d5 | 80.000 | 80.424 | -0.5 | 114 | 0.00 |
| 24 | | Nitrobenzene | 40.000 | 39.882 | 0.3 | 112 | 0.00 |
| 25 | | Isophorone | 40.000 | 39.275 | 1.8 | 113 | 0.00 |
| 26 | C | 2-Nitrophenol | 40.000 | 40.668 | -1.7 | 111 | 0.00 |
| 27 | | 2,4-Dimethylphenol | 40.000 | 40.231 | -0.6 | 113 | 0.00 |
| 28 | | bis(2-Chloroethoxy)methane | 40.000 | 39.557 | 1.1 | 113 | 0.00 |
| 29 | C | 2,4-Dichlorophenol | 40.000 | 40.567 | -1.4 | 114 | 0.00 |
| 30 | | 1,2,4-Trichlorobenzene | 40.000 | 39.651 | 0.9 | 112 | 0.00 |
| 31 | | Naphthalene | 40.000 | 39.232 | 1.9 | 111 | 0.00 |
| 32 | | Benzoic acid | 40.000 | 41.481 | -3.7 | 118 | 0.01 |
| 33 | | 4-Chloroaniline | 40.000 | 40.067 | -0.2 | 115 | 0.00 |
| 34 | C | Hexachlorobutadiene | 40.000 | 40.772 | -1.9 | 116 | 0.00 |
| 35 | | Caprolactam | 40.000 | 38.365 | 4.1 | 113 | 0.00 |
| 36 | C | 4-Chloro-3-methylphenol | 40.000 | 39.164 | 2.1 | 113 | 0.00 |
| 37 | | 2-Methylnaphthalene | 40.000 | 38.836 | 2.9 | 112 | 0.00 |
| 38 | | 1-Methylnaphthalene | 40.000 | 38.666 | 3.3 | 111 | 0.00 |
| 39 | I | Acenaphthene-d10 | 20.000 | 20.000 | 0.0 | 112 | 0.00 |
| 40 | | 1,2,4,5-Tetrachlorobenzene | 40.000 | 40.554 | -1.4 | 114 | 0.00 |
| 41 | P | Hexachlorocyclopentadiene | 40.000 | 42.278 | -5.7 | 125 | 0.00 |
| 42 | S | 2,4,6-Tribromophenol | 80.000 | 77.401 | 3.2 | 111 | 0.00 |
| 43 | C | 2,4,6-Trichlorophenol | 40.000 | 40.384 | -1.0 | 114 | 0.00 |
| 44 | | 2,4,5-Trichlorophenol | 40.000 | 41.011 | -2.5 | 115 | 0.00 |
| 45 | S | 2-Fluorobiphenyl | 80.000 | 78.500 | 1.9 | 112 | 0.00 |
| 46 | | 1,1'-Biphenyl | 40.000 | 40.156 | -0.4 | 114 | 0.00 |
| 47 | | 2-Chloronaphthalene | 40.000 | 39.966 | 0.1 | 113 | 0.00 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138688.D
Acq On : 30 Jul 2024 17:55
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF073024

Quant Time: Jul 30 18:15:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 48 | | 2-Nitroaniline | 40.000 | 39.505 | 1.2 | 112 | 0.00 |
| 49 | | Acenaphthylene | 40.000 | 39.504 | 1.2 | 111 | 0.00 |
| 50 | | Dimethylphthalate | 40.000 | 38.458 | 3.9 | 112 | 0.00 |
| 51 | | 2,6-Dinitrotoluene | 40.000 | 39.895 | 0.3 | 112 | 0.00 |
| 52 | C | Acenaphthene | 40.000 | 39.456 | 1.4 | 113 | 0.00 |
| 53 | | 3-Nitroaniline | 40.000 | 38.306 | 4.2 | 111 | 0.00 |
| 54 | P | 2,4-Dinitrophenol | 40.000 | 39.106 | 2.2 | 114 | 0.00 |
| 55 | | Dibenzofuran | 40.000 | 38.997 | 2.5 | 113 | 0.00 |
| 56 | P | 4-Nitrophenol | 40.000 | 39.336 | 1.7 | 113 | 0.00 |
| 57 | | 2,4-Dinitrotoluene | 40.000 | 38.673 | 3.3 | 110 | 0.00 |
| 58 | | Fluorene | 40.000 | 38.661 | 3.3 | 112 | 0.00 |
| 59 | | 2,3,4,6-Tetrachlorophenol | 40.000 | 38.680 | 3.3 | 112 | 0.00 |
| 60 | | Diethylphthalate | 40.000 | 38.447 | 3.9 | 113 | 0.00 |
| 61 | | 4-Chlorophenyl-phenylether | 40.000 | 39.091 | 2.3 | 114 | 0.00 |
| 62 | | 4-Nitroaniline | 40.000 | 38.525 | 3.7 | 112 | 0.00 |
| 63 | | Azobenzene | 40.000 | 38.622 | 3.4 | 112 | 0.00 |
| 64 | I | Phenanthrene-d10 | 20.000 | 20.000 | 0.0 | 111 | 0.00 |
| 65 | | 4,6-Dinitro-2-methylphenol | 40.000 | 41.323 | -3.3 | 112 | 0.00 |
| 66 | c | n-Nitrosodiphenylamine | 40.000 | 40.561 | -1.4 | 111 | 0.00 |
| 67 | | 4-Bromophenyl-phenylether | 40.000 | 40.390 | -1.0 | 112 | 0.00 |
| 68 | | Hexachlorobenzene | 40.000 | 40.147 | -0.4 | 113 | 0.00 |
| 69 | | Atrazine | 40.000 | 39.654 | 0.9 | 109 | 0.00 |
| 70 | C | Pentachlorophenol | 40.000 | 40.788 | -2.0 | 111 | 0.00 |
| 71 | | Phenanthrene | 40.000 | 39.036 | 2.4 | 109 | 0.00 |
| 72 | | Anthracene | 40.000 | 38.817 | 3.0 | 109 | 0.00 |
| 73 | | Carbazole | 40.000 | 38.546 | 3.6 | 107 | 0.00 |
| 74 | | Di-n-butylphthalate | 40.000 | 40.010 | -0.0 | 110 | 0.00 |
| 75 | C | Fluoranthene | 40.000 | 38.250 | 4.4 | 106 | 0.00 |
| 76 | I | Chrysene-d12 | 20.000 | 20.000 | 0.0 | 107 | 0.00 |
| 77 | | Benzidine | 40.000 | 41.166 | -2.9 | 98 | 0.00 |
| 78 | | Pyrene | 40.000 | 36.907 | 7.7 | 106 | 0.00 |
| 79 | S | Terphenyl-d14 | 80.000 | 73.396 | 8.3 | 106 | 0.00 |
| 80 | | Butylbenzylphthalate | 40.000 | 42.425 | -6.1 | 109 | 0.00 |
| 81 | | Benzo(a)anthracene | 40.000 | 40.994 | -2.5 | 108 | 0.00 |
| 82 | | 3,3'-Dichlorobenzidine | 40.000 | 44.160 | -10.4 | 116 | 0.00 |
| 83 | | Chrysene | 40.000 | 39.308 | 1.7 | 107 | 0.00 |
| 84 | | Bis(2-ethylhexyl)phthalate | 40.000 | 44.921 | -12.3 | 112 | 0.00 |
| 85 | c | Di-n-octyl phthalate | 40.000 | 44.183 | -10.5 | 111 | 0.00 |
| 86 | I | Perylene-d12 | 20.000 | 20.000 | 0.0 | 113 | 0.00 |
| 87 | | Indeno(1,2,3-cd)pyrene | 40.000 | 39.463 | 1.3 | 114 | 0.00 |
| 88 | | Benzo(b)fluoranthene | 40.000 | 38.172 | 4.6 | 109 | 0.00 |
| 89 | | Benzo(k)fluoranthene | 40.000 | 38.430 | 3.9 | 116 | 0.00 |
| 90 | C | Benzo(a)pyrene | 40.000 | 39.920 | 0.2 | 115 | 0.00 |
| 91 | | Dibenzo(a,h)anthracene | 40.000 | 39.089 | 2.3 | 115 | 0.00 |
| 92 | | Benzo(g,h,i)perylene | 40.000 | 39.457 | 1.4 | 113 | 0.00 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138688.D
Acq On : 30 Jul 2024 17:55
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF073024

Quant Time: Jul 30 18:15:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: P3457 SAS No.: P3457 SDG No.: P3457

Instrument ID: BNA_F Calibration Date/Time: 08/09/2024 09:48

Lab File ID: BF138879.D Init. Calib. Date(s): 07/30/2024 07/30/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:54 16:29

GC Column: DB-UI ID: 0.18 (mm)

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Pyridine | 1.374 | 1.192 | | -13.2 | |
| 2-Fluorophenol | 1.296 | 1.253 | | -3.3 | |
| Benzaldehyde | 1.043 | 0.831 | | -20.3 | |
| Phenol-d6 | 1.740 | 1.688 | | -3.0 | |
| 2-Methylphenol | 1.126 | 1.087 | | -3.5 | |
| 3+4-Methylphenols | 1.444 | 1.469 | | 1.7 | |
| Nitrobenzene-d5 | 0.409 | 0.415 | | 1.5 | |
| Hexachloroethane | 0.580 | 0.586 | | 1.0 | |
| Nitrobenzene | 0.416 | 0.419 | | 0.7 | |
| Naphthalene | 1.053 | 1.044 | | -0.9 | |
| Hexachlorobutadiene | 0.192 | 0.201 | | 4.7 | 20.0 |
| 2-Methylnaphthalene | 0.665 | 0.685 | | 3.0 | |
| 2,4,6-Trichlorophenol | 0.339 | 0.331 | | -2.4 | 20.0 |
| 2-Fluorobiphenyl | 1.331 | 1.366 | | 2.6 | |
| 2,4,5-Trichlorophenol | 0.370 | 0.367 | | -0.8 | |
| Acenaphthylene | 1.652 | 1.623 | | -1.8 | |
| Acenaphthene | 1.111 | 1.081 | | -2.7 | 20.0 |
| Dibenzofuran | 1.568 | 1.578 | | 0.6 | |
| 2,4-Dinitrotoluene | 0.368 | 0.397 | | 7.9 | |
| Fluorene | 1.249 | 1.298 | | 3.9 | |
| 2,4,6-Tribromophenol | 0.164 | 0.175 | | 6.7 | |
| Hexachlorobenzene | 0.224 | 0.225 | | 0.4 | |
| Pentachlorophenol | 0.101 | 0.114 | | 12.9 | 20.0 |
| Phenanthrene | 1.030 | 1.033 | | 0.3 | |
| Anthracene | 1.015 | 1.020 | | 0.5 | |
| Carbazole | 0.875 | 0.907 | | 3.7 | |
| Di-n-butylphthalate | 0.984 | 1.177 | | 19.6 | |
| Fluoranthene | 0.961 | 1.015 | | 5.6 | 20.0 |
| Pyrene | 1.883 | 2.164 | | 14.9 | |
| Terphenyl-d14 | 1.195 | 1.398 | | 17.0 | |
| Benzo(a)anthracene | 1.377 | 1.353 | | -1.7 | |
| Chrysene | 1.243 | 1.242 | | -0.1 | |
| Bis(2-ethylhexyl)phthalate | 0.883 | 0.836 | | -5.3 | |
| Benzo(b)fluoranthene | 1.240 | 1.263 | | 1.9 | |
| Benzo(k)fluoranthene | 1.073 | 1.156 | | 7.7 | |
| Benzo(a)pyrene | 1.043 | 1.059 | | 1.5 | 20.0 |
| Indeno(1,2,3-cd)pyrene | 1.433 | 1.357 | | -5.3 | |
| Dibenzo(a,h)anthracene | 1.177 | 1.120 | | -4.8 | |
| Benzo(g,h,i)perylene | 1.221 | 1.111 | | -9.0 | |

Form VII SV-1

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: P3457 SAS No.: P3457 SDG No.: P3457

Instrument ID: BNA_F Calibration Date/Time: 08/09/2024 09:48

Lab File ID: BF138879.D Init. Calib. Date(s): 07/30/2024 07/30/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:54 16:29

GC Column: DB-UI ID: 0.18 (mm)

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 1,4-Dioxane | 0.567 | 0.467 | | -17.6 | 20.0 |
| 1-Methylnaphthalene | 0.652 | 0.663 | | 1.7 | |

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080924\
Data File : BF138879.D
Acq On : 09 Aug 2024 09:48
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 09 10:52:44 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.845 | 152 | 65310 | 20.000 | ng | | 0.00 |
| 21) Naphthalene-d8 | 8.128 | 136 | 265298 | 20.000 | ng | | 0.00 |
| 39) Acenaphthene-d10 | 9.880 | 164 | 151080 | 20.000 | ng | | 0.00 |
| 64) Phenanthrene-d10 | 11.363 | 188 | 254940 | 20.000 | ng | | 0.00 |
| 76) Chrysene-d12 | 14.004 | 240 | 120643 | 20.000 | ng | # | 0.00 |
| 86) Perylene-d12 | 15.462 | 264 | 111360 | 20.000 | ng | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.469 | 112 | 327221 | 77.341 | ng | | 0.00 |
| 7) Phenol-d6 | 6.492 | 99 | 441036 | 77.642 | ng | | 0.00 |
| 23) Nitrobenzene-d5 | 7.416 | 82 | 440205 | 81.125 | ng | | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.674 | 330 | 105999 | 85.652 | ng | | 0.00 |
| 45) 2-Fluorobiphenyl | 9.198 | 172 | 825374 | 82.084 | ng | | 0.00 |
| 79) Terphenyl-d14 | 12.945 | 244 | 674631 | 93.624 | ng | | 0.00 |
| **Target Compounds** | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.599 | 88 | 61050 | 32.959 | ng | | 96 |
| 3) Pyridine | 3.357 | 79 | 155693 | 34.698 | ng | | 97 |
| 4) n-Nitrosodimethylamine | 3.334 | 42 | 110982 | 41.529 | ng | | 85 |
| 6) Aniline | 6.510 | 93 | 195305 | 38.553 | ng | # | 42 |
| 8) 2-Chlorophenol | 6.634 | 128 | 177941 | 39.975 | ng | | 99 |
| 9) Benzaldehyde | 6.398 | 77 | 108515 | 31.868 | ng | | 100 |
| 10) Phenol | 6.510 | 94 | 230807 | 38.591 | ng | | 78 |
| 11) bis(2-Chloroethyl)ether | 6.587 | 93 | 172259 | 37.428 | ng | | 98 |
| 12) 1,3-Dichlorobenzene | 6.787 | 146 | 195964 | 39.328 | ng | | 99 |
| 13) 1,4-Dichlorobenzene | 6.863 | 146 | 198050 | 39.385 | ng | | 99 |
| 14) 1,2-Dichlorobenzene | 7.016 | 146 | 191541 | 40.758 | ng | | 100 |
| 15) Benzyl Alcohol | 6.992 | 79 | 174054 | 42.513 | ng | | 97 |
| 16) 2,2'-oxybis(1-Chloropr... | 7.116 | 45 | 278655 | 35.181 | ng | | 54 |
| 17) 2-Methylphenol | 7.110 | 107 | 142043 | 38.644 | ng | # | 89 |
| 18) Hexachloroethane | 7.351 | 117 | 76517 | 40.424 | ng | | 98 |
| 19) n-Nitroso-di-n-propyla... | 7.263 | 70 | 141939 | 41.371 | ng | | 98 |
| 20) 3+4-Methylphenols | 7.263 | 107 | 191899 | 40.691 | ng | # | 90 |
| 22) Acetophenone | 7.257 | 105 | 265553 | 40.881 | ng | # | 98 |
| 24) Nitrobenzene | 7.434 | 77 | 222112 | 40.226 | ng | | 99 |
| 25) Isophorone | 7.669 | 82 | 365563 | 39.454 | ng | | 98 |
| 26) 2-Nitrophenol | 7.745 | 139 | 97900 | 41.211 | ng | | 95 |
| 27) 2,4-Dimethylphenol | 7.786 | 122 | 111210 | 39.127 | ng | | 97 |
| 28) bis(2-Chloroethoxy)met... | 7.875 | 93 | 218905 | 38.796 | ng | | 99 |
| 29) 2,4-Dichlorophenol | 7.992 | 162 | 150623 | 41.240 | ng | | 100 |
| 30) 1,2,4-Trichlorobenzene | 8.063 | 180 | 168914 | 40.076 | ng | | 99 |
| 31) Naphthalene | 8.145 | 128 | 553926 | 39.667 | ng | | 100 |
| 32) Benzoic acid | 7.945 | 122 | 79011 | 35.363 | ng | | 93 |
| 33) 4-Chloroaniline | 8.204 | 127 | 173813 | 37.080 | ng | | 98 |
| 34) Hexachlorobutadiene | 8.257 | 225 | 106581 | 41.748 | ng | | 99 |
| 35) Caprolactam | 8.598 | 113 | 45794m | 42.020 | ng | | |
| 36) 4-Chloro-3-methylphenol | 8.692 | 107 | 175226 | 41.980 | ng | | 99 |
| 37) 2-Methylnaphthalene | 8.833 | 142 | 363449 | 41.211 | ng | | 99 |
| 38) 1-Methylnaphthalene | 8.933 | 142 | 351793 | 40.707 | ng | | 98 |
| 40) 1,2,4,5-Tetrachloroben... | 9.004 | 216 | 168508 | 40.151 | ng | | 99 |
| 41) Hexachlorocyclopentadiene | 8.980 | 237 | 51121 | 48.979 | ng | | 99 |
| 43) 2,4,6-Trichlorophenol | 9.122 | 196 | 99909 | 39.044 | ng | | 100 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080924\
Data File : BF138879.D
Acq On : 09 Aug 2024 09:48
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 09 10:52:44 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 9.169 | 196 | 110978 | 39.672 | ng | | 100 |
| 46) 1,1'-Biphenyl | 9.304 | 154 | 461730 | 39.023 | ng | | 99 |
| 47) 2-Chloronaphthalene | 9.328 | 162 | 343772 | 39.064 | ng | | 99 |
| 48) 2-Nitroaniline | 9.433 | 65 | 120246 | 40.306 | ng | | 99 |
| 49) Acenaphthylene | 9.739 | 152 | 490451 | 39.295 | ng | | 100 |
| 50) Dimethylphthalate | 9.604 | 163 | 397073 | 41.104 | ng | | 100 |
| 51) 2,6-Dinitrotoluene | 9.675 | 165 | 89744 | 41.164 | ng | | 91 |
| 52) Acenaphthene | 9.916 | 154 | 326651 | 38.933 | ng | | 100 |
| 53) 3-Nitroaniline | 9.845 | 138 | 89775 | 39.833 | ng | | 97 |
| 54) 2,4-Dinitrophenol | 9.957 | 184 | 45402 | 45.240 | ng | # | 83 |
| 55) Dibenzofuran | 10.086 | 168 | 476936 | 40.270 | ng | | 99 |
| 56) 4-Nitrophenol | 10.022 | 139 | 57826 | 42.666 | ng | | 91 |
| 57) 2,4-Dinitrotoluene | 10.080 | 165 | 120107 | 43.181 | ng | # | 83 |
| 58) Fluorene | 10.427 | 166 | 392206 | 41.585 | ng | | 100 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.210 | 232 | 87762m | 41.037 | ng | | |
| 60) Diethylphthalate | 10.298 | 149 | 402355 | 43.927 | ng | | 99 |
| 61) 4-Chlorophenyl-phenyle... | 10.416 | 204 | 193596 | 41.737 | ng | | 97 |
| 62) 4-Nitroaniline | 10.463 | 138 | 88058 | 41.114 | ng | | 89 |
| 63) Azobenzene | 10.580 | 77 | 412159 | 40.571 | ng | | 98 |
| 65) 4,6-Dinitro-2-methylph... | 10.492 | 198 | 64538 | 41.494 | ng | | 94 |
| 66) n-Nitrosodiphenylamine | 10.539 | 169 | 321358 | 40.327 | ng | | 100 |
| 67) 4-Bromophenyl-phenylether | 10.904 | 248 | 111018 | 40.221 | ng | | 96 |
| 68) Hexachlorobenzene | 10.974 | 284 | 114946 | 40.333 | ng | | 99 |
| 69) Atrazine | 11.063 | 200 | 79675 | 38.753 | ng | | 96 |
| 70) Pentachlorophenol | 11.174 | 266 | 58263 | 45.355 | ng | | 98 |
| 71) Phenanthrene | 11.392 | 178 | 526719 | 40.124 | ng | | 100 |
| 72) Anthracene | 11.445 | 178 | 519957 | 40.206 | ng | | 100 |
| 73) Carbazole | 11.598 | 167 | 462567 | 41.459 | ng | | 99 |
| 74) Di-n-butylphthalate | 11.916 | 149 | 599976 | 47.835 | ng | | 99 |
| 75) Fluoranthene | 12.574 | 202 | 517334 | 42.213 | ng | | 99 |
| 77) Benzidine | 12.698 | 184 | 114954 | 39.838 | ng | | 99 |
| 78) Pyrene | 12.804 | 202 | 522241 | 45.976 | ng | | 99 |
| 80) Butylbenzylphthalate | 13.415 | 149 | 169955 | 46.724 | ng | | 97 |
| 81) Benzo(a)anthracene | 13.992 | 228 | 326447 | 39.294 | ng | | 99 |
| 82) 3,3'-Dichlorobenzidine | 13.951 | 252 | 83780 | 39.408 | ng | | 98 |
| 83) Chrysene | 14.027 | 228 | 299773 | 39.995 | ng | | 99 |
| 84) Bis(2-ethylhexyl)phtha... | 13.968 | 149 | 201833 | 37.893 | ng | | 99 |
| 85) Di-n-octyl phthalate | 14.580 | 149 | 337677 | 34.265 | ng | | 100 |
| 87) Indeno(1,2,3-cd)pyrene | 16.939 | 276 | 302261 | 37.875 | ng | | 96 |
| 88) Benzo(b)fluoranthene | 15.039 | 252 | 281311 | 40.751 | ng | | 98 |
| 89) Benzo(k)fluoranthene | 15.068 | 252 | 257413 | 43.068 | ng | | 98 |
| 90) Benzo(a)pyrene | 15.404 | 252 | 235833 | 40.615 | ng | | 98 |
| 91) Dibenzo(a,h)anthracene | 16.951 | 278 | 249401 | 38.071 | ng | | 97 |
| 92) Benzo(g,h,i)perylene | 17.380 | 276 | 247476 | 36.405 | ng | | 96 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

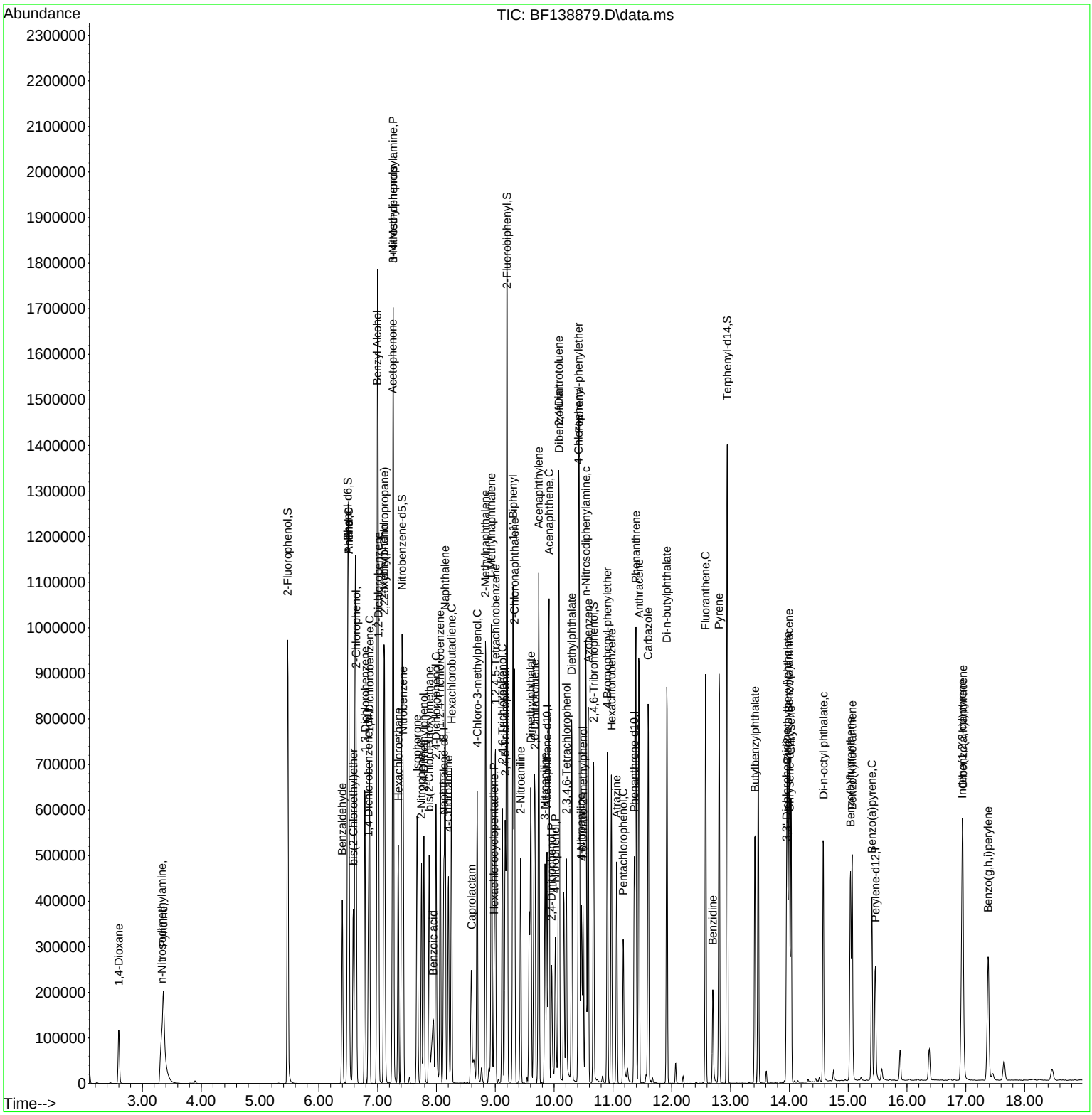
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080924\
Data File : BF138879.D
Acq On : 09 Aug 2024 09:48
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

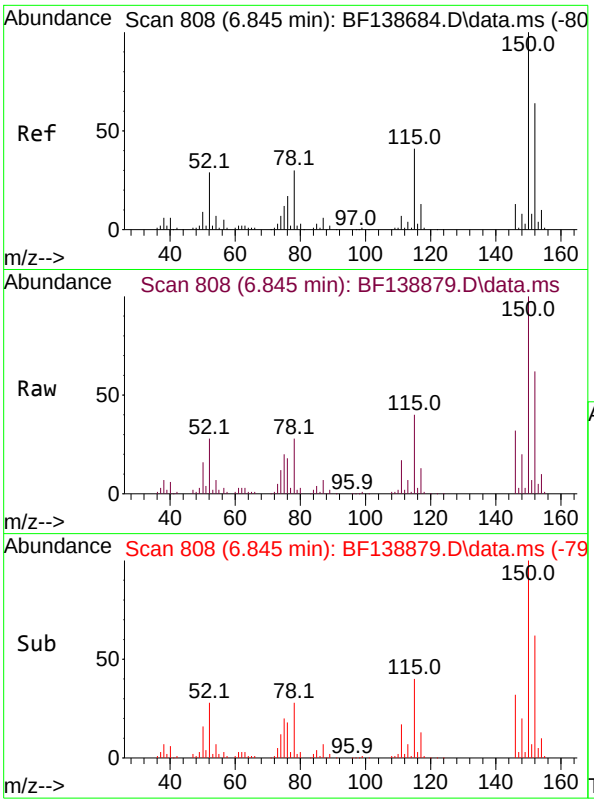
Quant Time: Aug 09 10:52:44 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

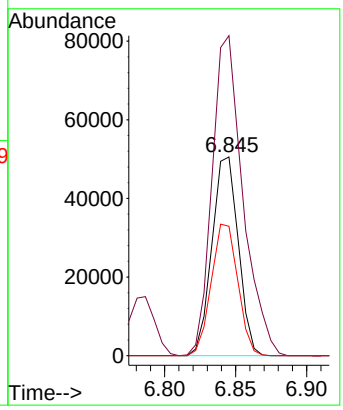





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.845 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:152 Resp: 6531

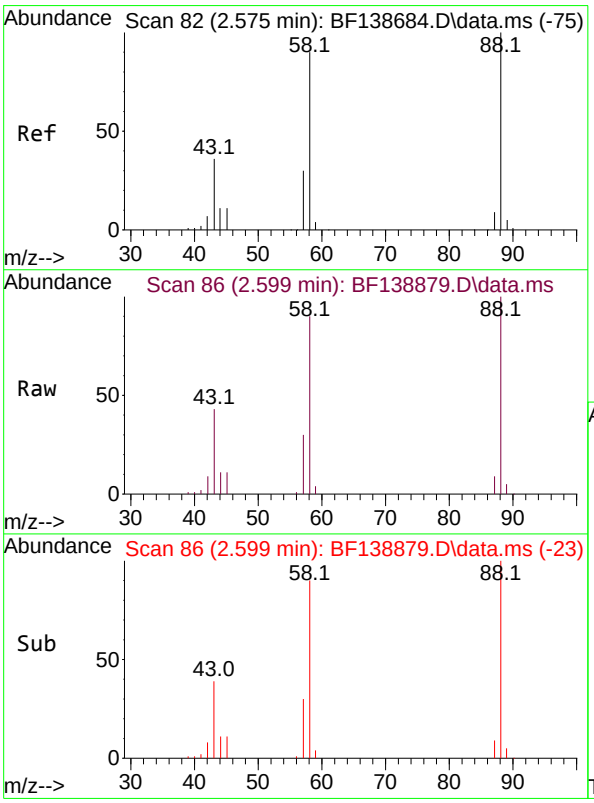
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 161.1 | 126.0 | 189.0 |
| 115 | 65.2 | 51.7 | 77.5 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
**APPROVED**

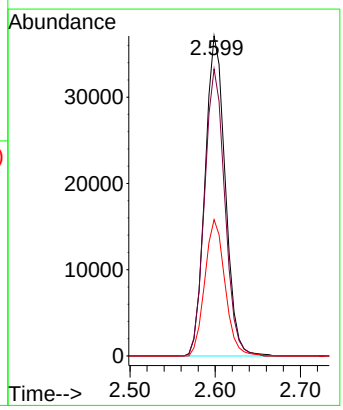
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

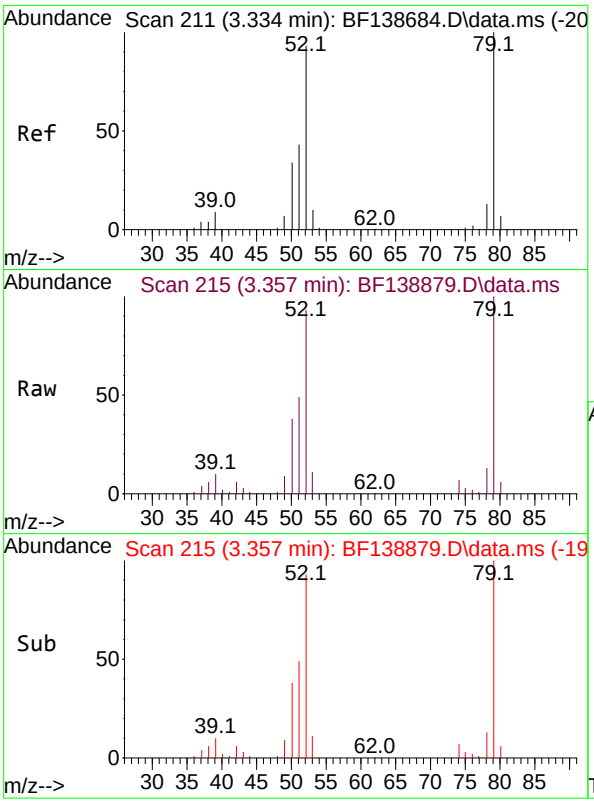



#2
1,4-Dioxane
Concen: 32.959 ng
RT: 2.599 min Scan# 86
Delta R.T. 0.023 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion: 88 Resp: 61050

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 89.9 | 71.6 | 107.4 |
| 43 | 42.6 | 28.7 | 43.1 |






#3
Pyridine
Concen: 34.698 ng
RT: 3.357 min Scan# 21
Delta R.T. 0.023 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

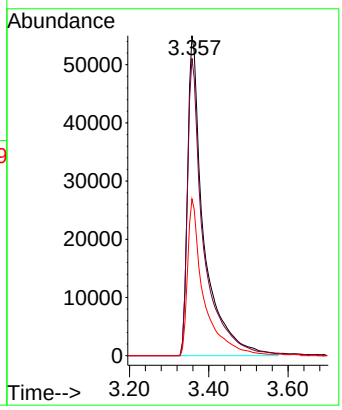
Tgt Ion: 79 Resp: 15569

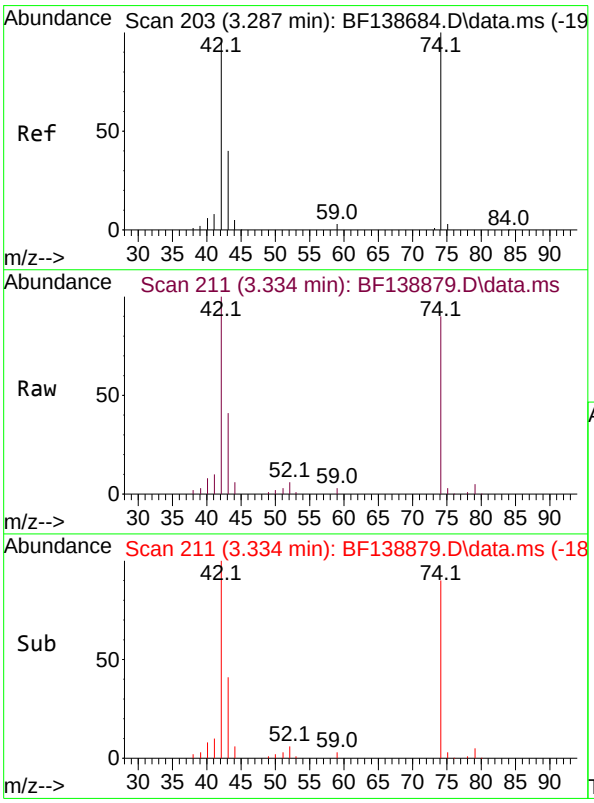
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 93.0 | 74.7 | 112.1 |
| 51 | 48.9 | 34.6 | 51.8 |

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

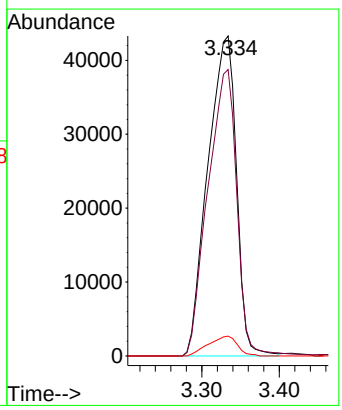


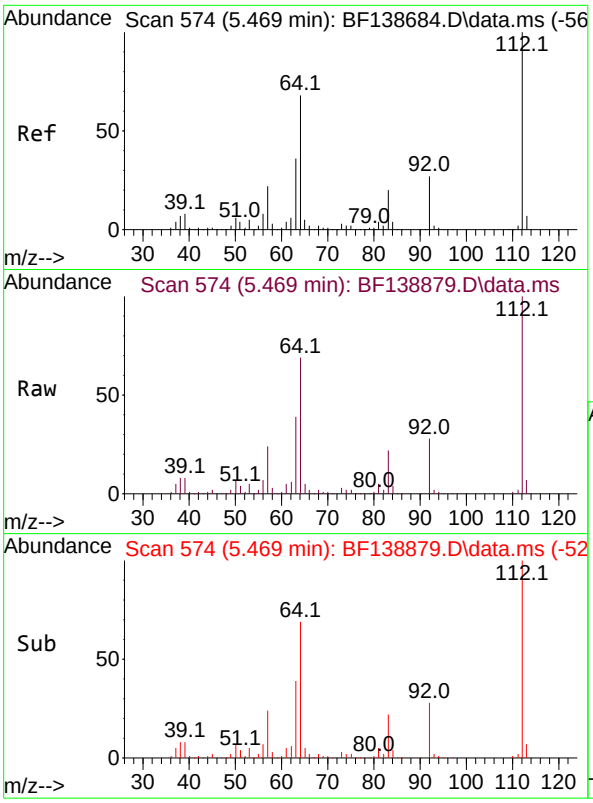




#4
n-Nitrosodimethylamine
Concen: 41.529 ng
RT: 3.334 min Scan# 211
Delta R.T. 0.047 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion: 42 Resp: 110982

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 89.5 | 84.2 | 126.4 |
| 44 | 6.2 | 4.9 | 7.3 |

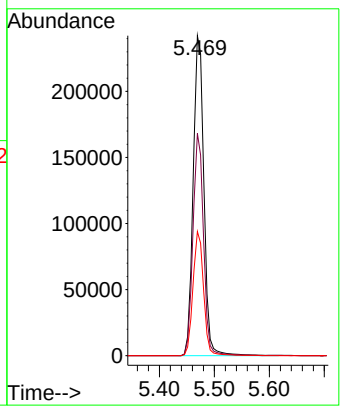





#5
2-Fluorophenol
Concen: 77.341 ng
RT: 5.469 min Scan# 5
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:112 Resp: 32722

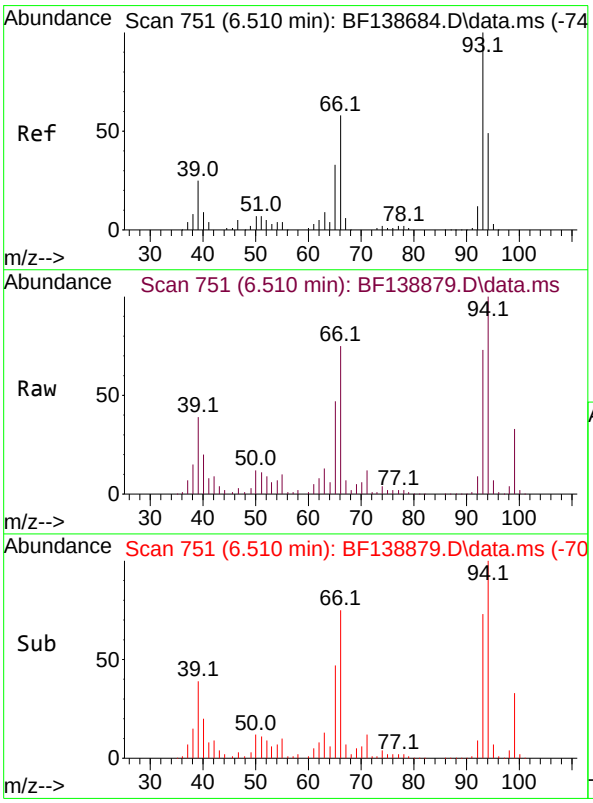
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 69.5 | 54.2 | 81.4 |
| 63 | 38.8 | 28.7 | 43.1 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
**APPROVED**

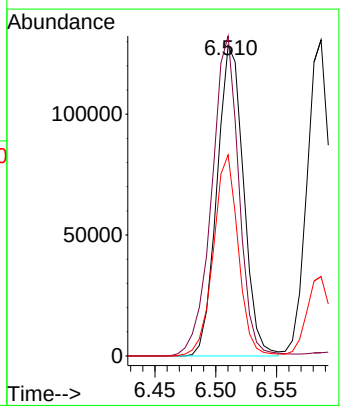
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

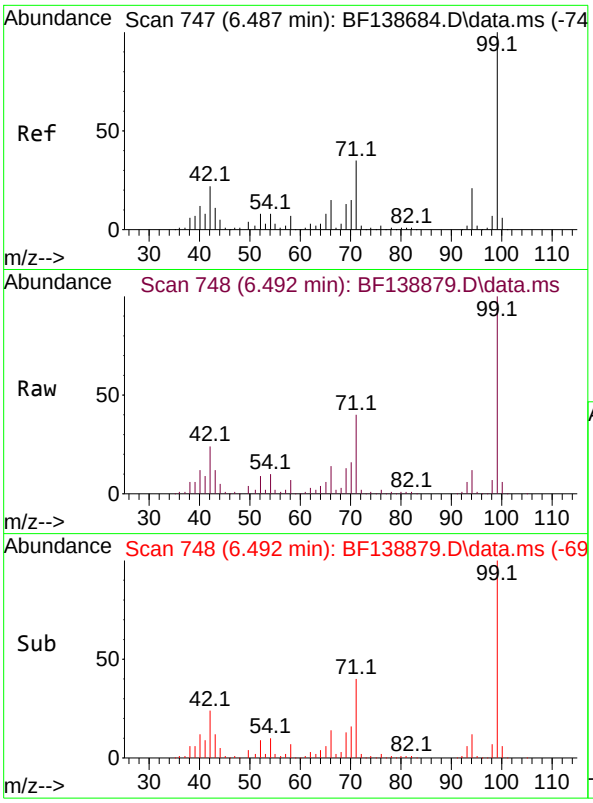



#6
Aniline
Concen: 38.553 ng
RT: 6.510 min Scan# 751
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion: 93 Resp: 195305

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 66 | 103.0 | 46.9 | 70.3# |
| 65 | 64.7 | 26.5 | 39.7# |

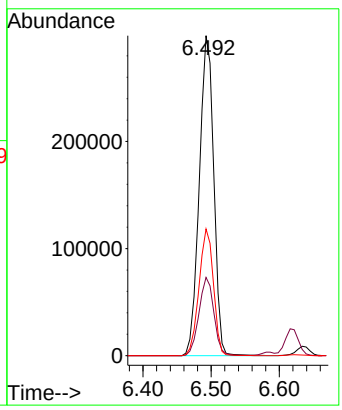





#7
Phenol-d6
Concen: 77.642 ng
RT: 6.492 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion: 99 Resp: 44103

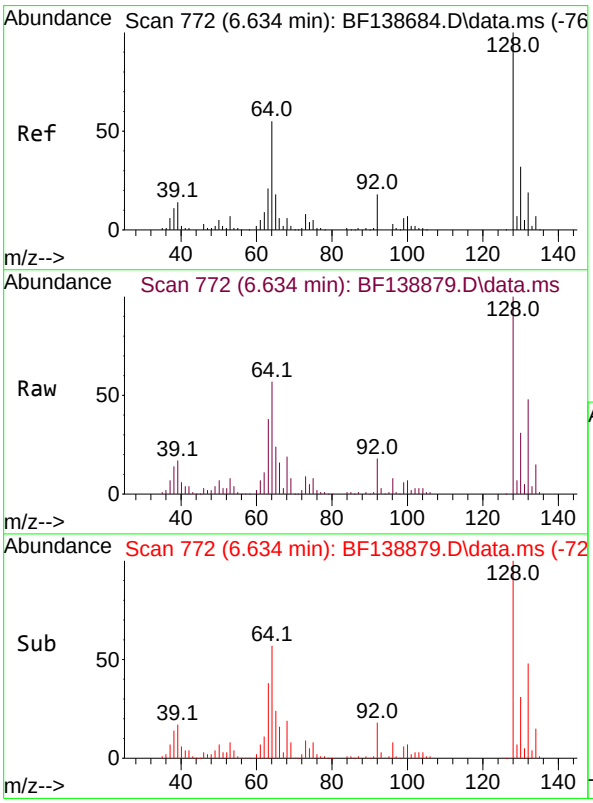
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 24.5 | 17.4 | 26.0 |
| 71 | 39.6 | 28.1 | 42.1 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
**APPROVED**

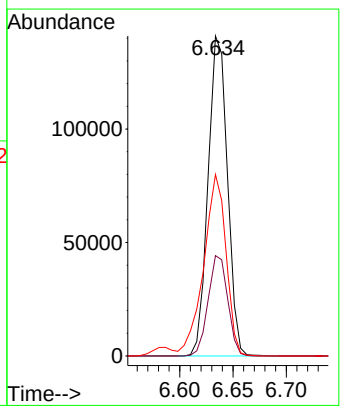
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

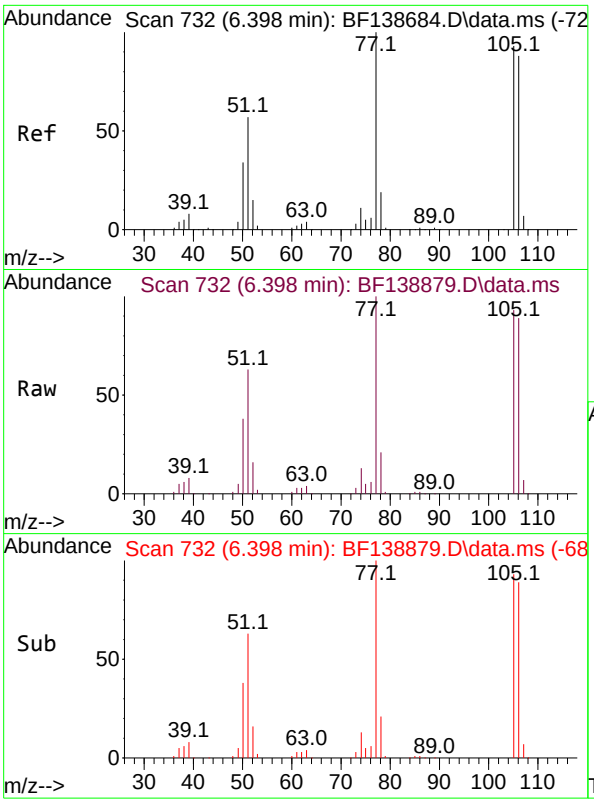



#8
2-Chlorophenol
Concen: 39.975 ng
RT: 6.634 min Scan# 772
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:128 Resp: 177941

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 130 | 31.4 | 12.0 | 52.0 |
| 64 | 56.7 | 36.3 | 76.3 |

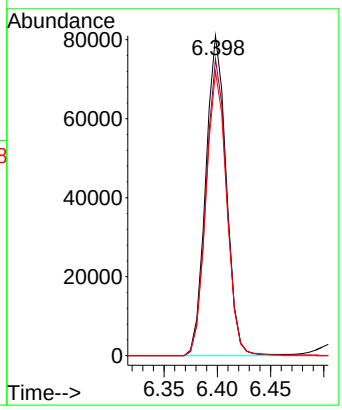





#9
Benzaldehyde
Concen: 31.868 ng
RT: 6.398 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion: 77 Resp: 10851

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 105 | 92.7 | 72.9 | 112.9 |
| 106 | 88.8 | 68.4 | 108.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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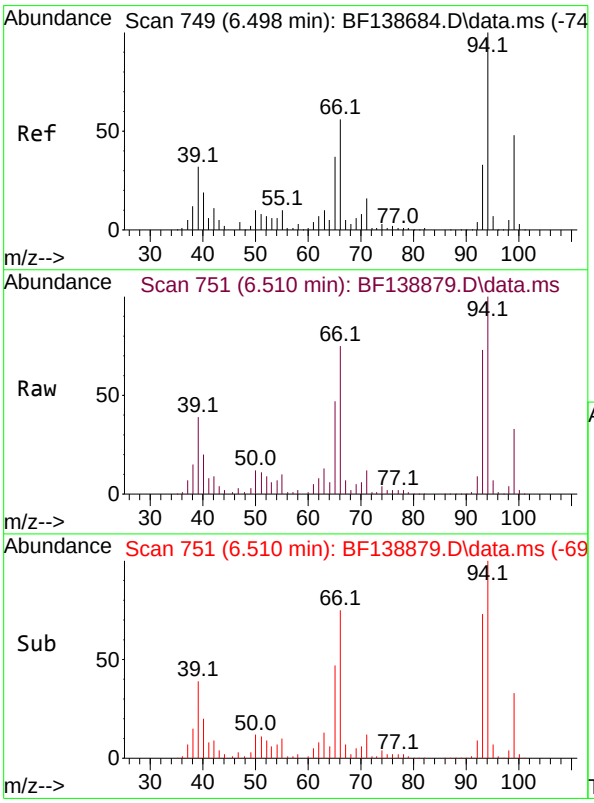
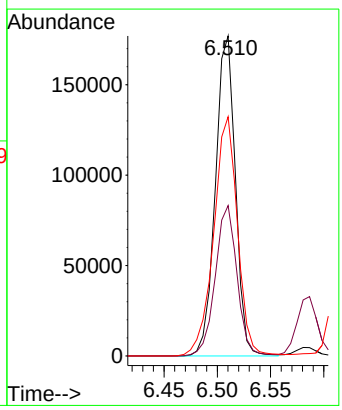
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

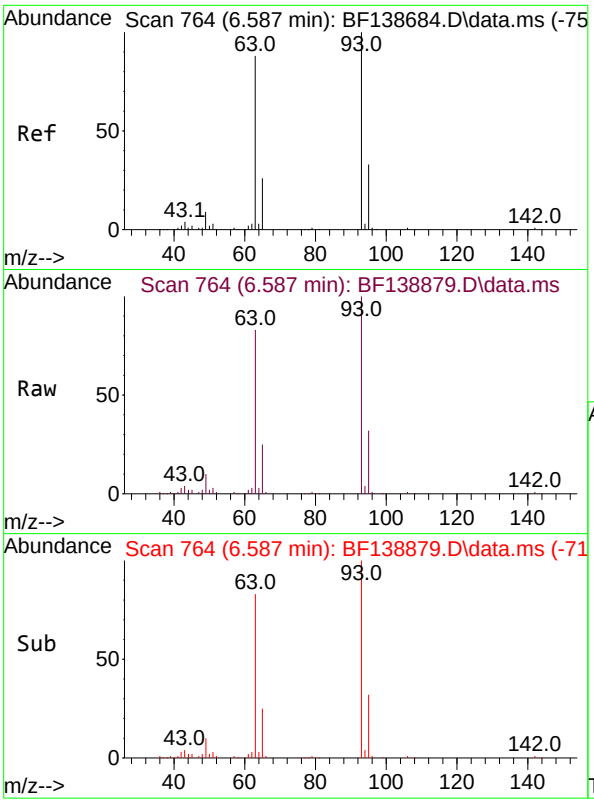



#10
Phenol
Concen: 38.591 ng
RT: 6.510 min Scan# 751
Delta R.T. 0.012 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion: 94 Resp: 230807

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 47.0 | 16.9 | 56.9 |
| 66 | 74.8 | 36.5 | 76.5 |

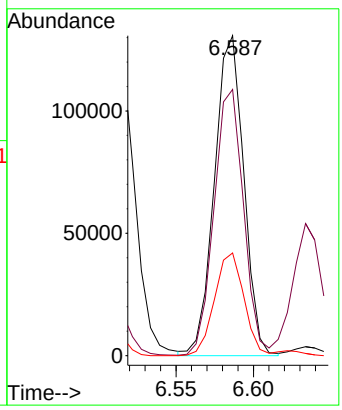





#11
bis(2-Chloroethyl)ether
Concen: 37.428 ng
RT: 6.587 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion: 93 Resp: 17225

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 83.2 | 65.3 | 105.3 |
| 95 | 32.1 | 12.4 | 52.4 |




**Instrument :**
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SSTDCCC040

**Manual Integrations**
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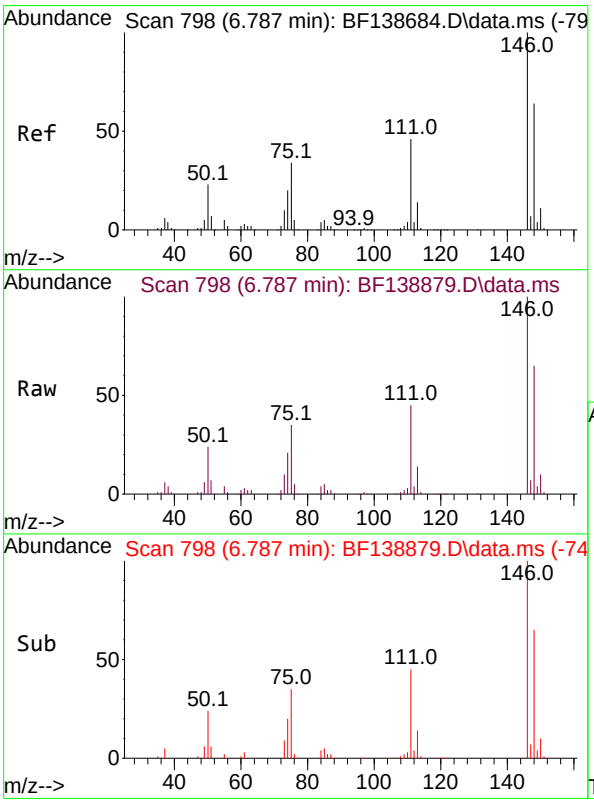
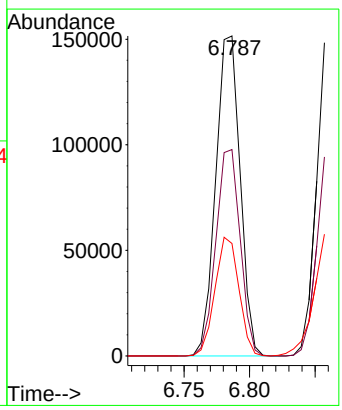
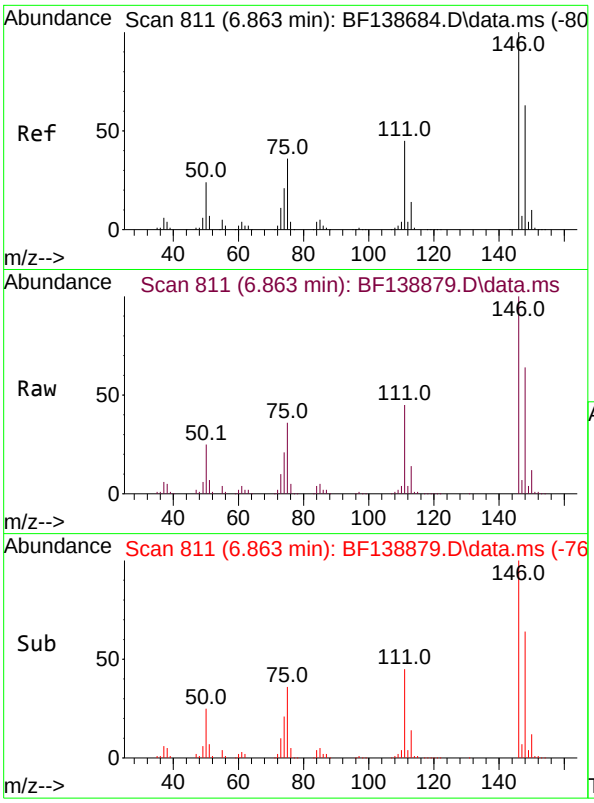



#12
1,3-Dichlorobenzene
Concen: 39.328 ng
RT: 6.787 min Scan# 798
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:146 Resp: 195964

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 64.5 | 51.2 | 76.8 |
| 75 | 35.2 | 27.4 | 41.2 |

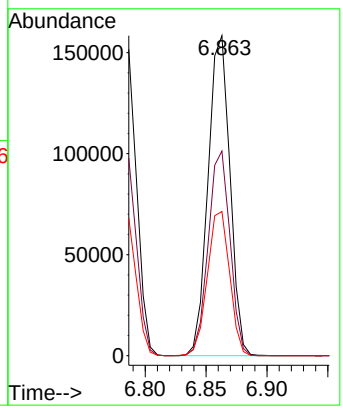





#13
1,4-Dichlorobenzene
Concen: 39.385 ng
RT: 6.863 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:146 Resp: 19805

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 63.9 | 50.2 | 75.2 |
| 111 | 45.1 | 35.9 | 53.9 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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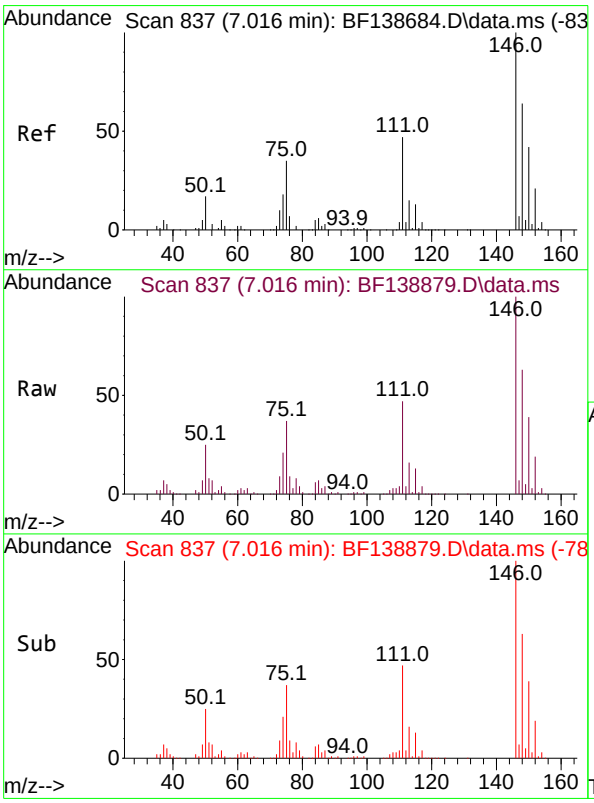
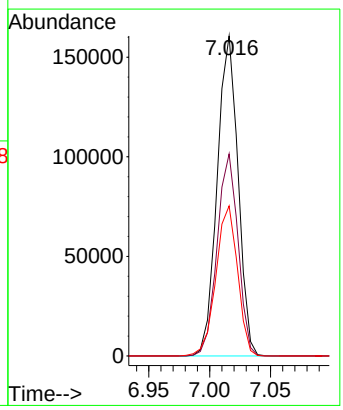
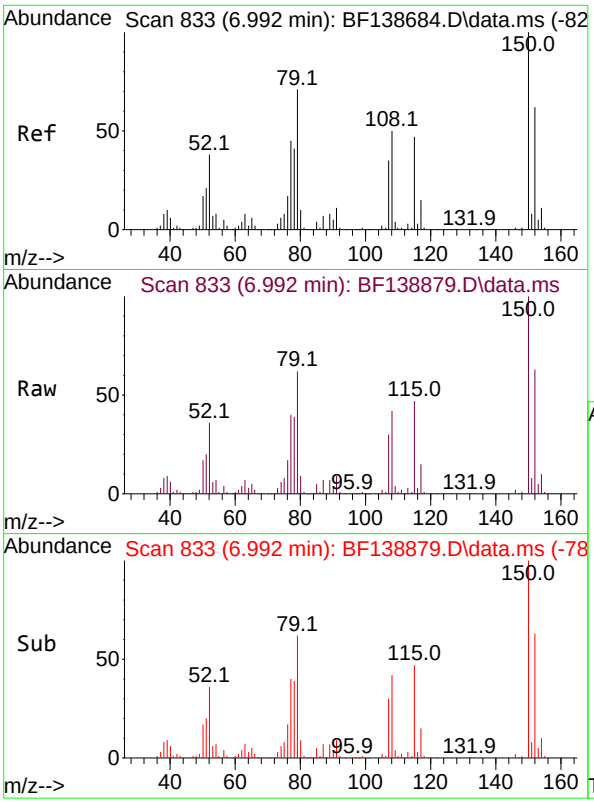



#14
1,2-Dichlorobenzene
Concen: 40.758 ng
RT: 7.016 min Scan# 837
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:146 Resp: 191541

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 63.2 | 50.8 | 76.2 |
| 111 | 46.9 | 37.4 | 56.2 |

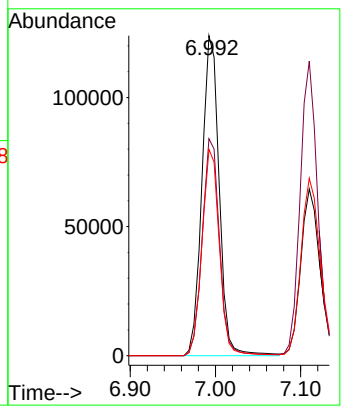





#15
Benzyl Alcohol
Concen: 42.513 ng
RT: 6.992 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion: 79 Resp: 17405

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 108 | 67.8 | 56.6 | 85.0 |
| 77 | 64.5 | 50.3 | 75.5 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

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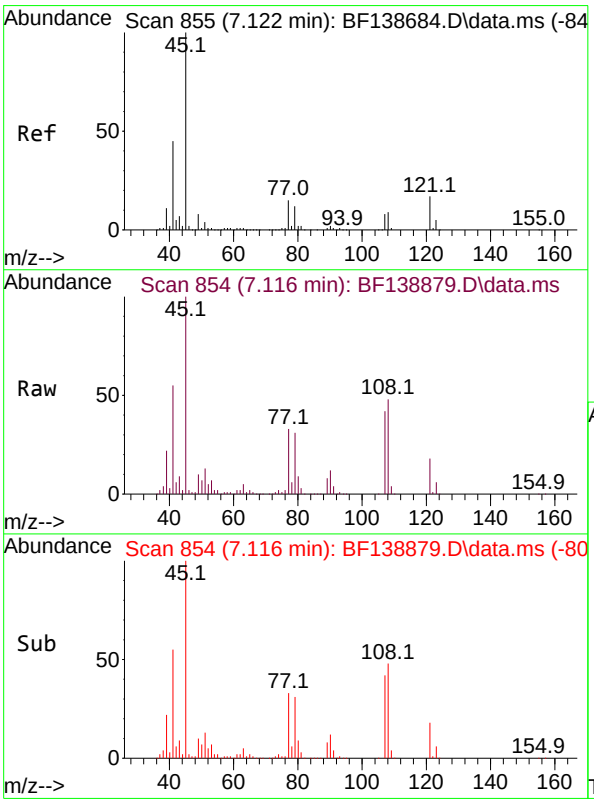
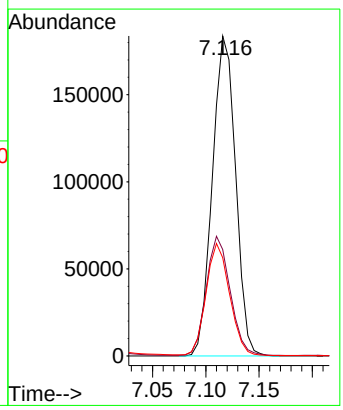
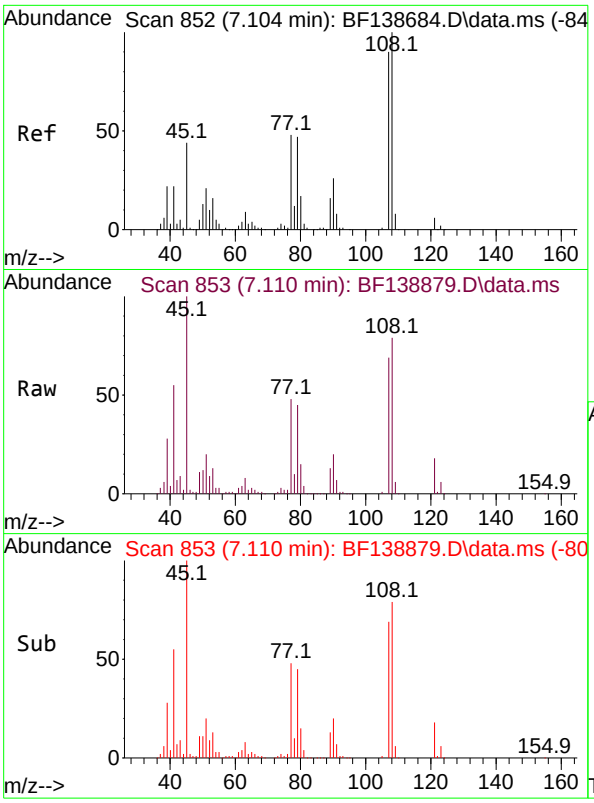



#16
2,2'-oxybis(1-Chloropropane)
Concen: 35.181 ng
RT: 7.116 min Scan# 854
Delta R.T. -0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion: 45 Resp: 278655

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 77 | 33.2 | 0.0 | 34.9 |
| 79 | 30.7 | 0.0 | 32.2 |

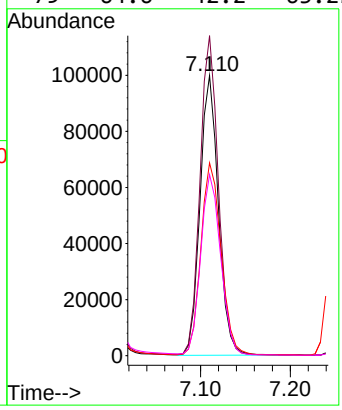





#17
2-Methylphenol
Concen: 38.644 ng
RT: 7.110 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:107 Resp: 14204

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 114.2 | 89.2 | 133.8 |
| 77 | 68.8 | 43.0 | 64.4# |
| 79 | 64.6 | 42.2 | 63.2# |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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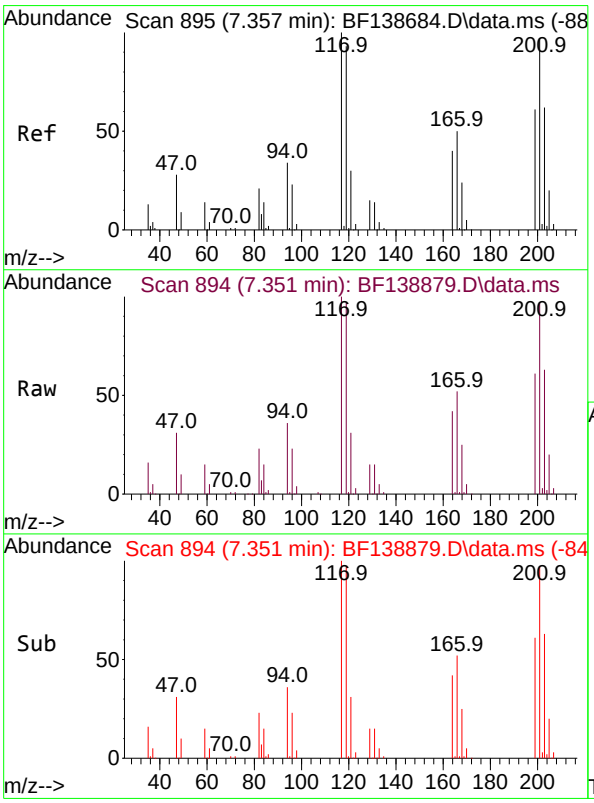
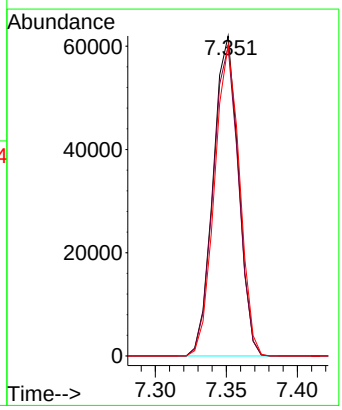
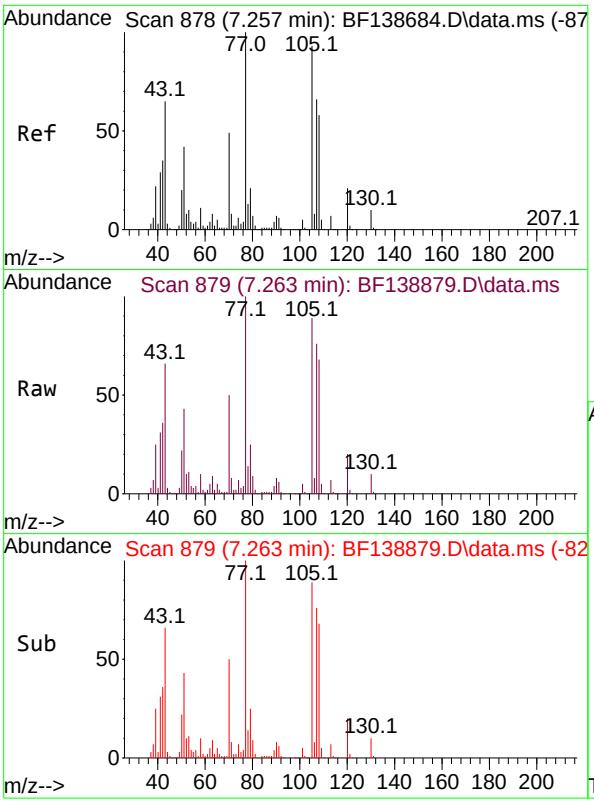



#18
Hexachloroethane
Concen: 40.424 ng
RT: 7.351 min Scan# 894
Delta R.T. -0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:117 Resp: 76517

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 96.7 | 74.6 | 111.8 |
| 201 | 97.2 | 77.2 | 115.8 |

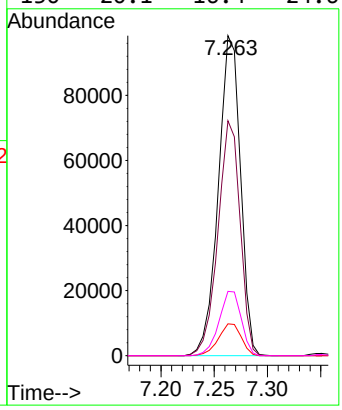





#19
n-Nitroso-di-n-propylamine
Concen: 41.371 ng
RT: 7.263 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion: 70 Resp: 14193

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 42 | 73.4 | 57.4 | 86.0 |
| 101 | 9.9 | 7.5 | 11.3 |
| 130 | 20.1 | 16.4 | 24.6 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

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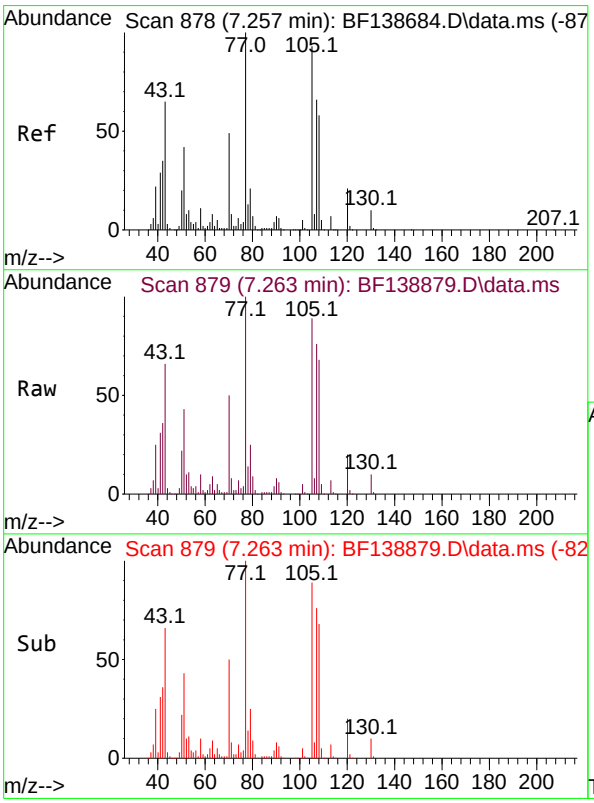
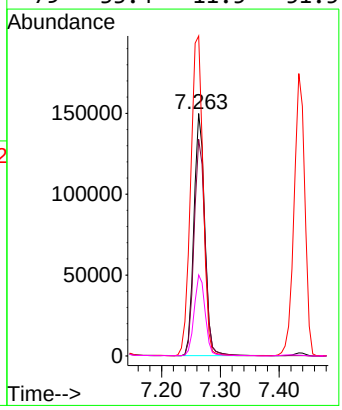
Supervised By :mohammad ahmed 08/12/2024

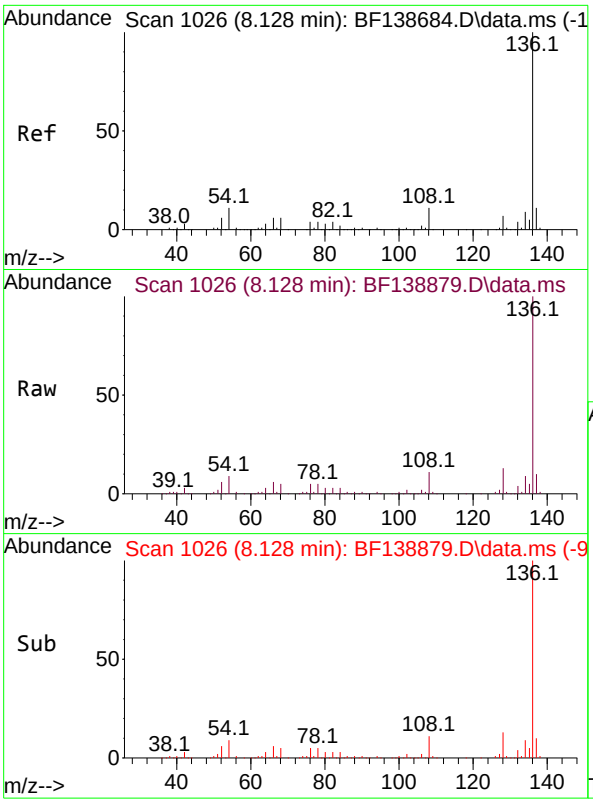



#20
3+4-Methylphenols
Concen: 40.691 ng
RT: 7.263 min Scan# 879
Delta R.T. 0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:107 Resp: 191899

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 89.3 | 68.2 | 108.2 |
| 77 | 132.0 | 132.1 | 172.1# |
| 79 | 33.4 | 11.5 | 51.5 |






#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.128 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:136 Resp: 26529

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.4 | 8.9 | 13.3 |
| 54 | 9.2 | 8.6 | 12.8 |
| 68 | 5.1 | 4.8 | 7.2 |

**Manual Integrations**
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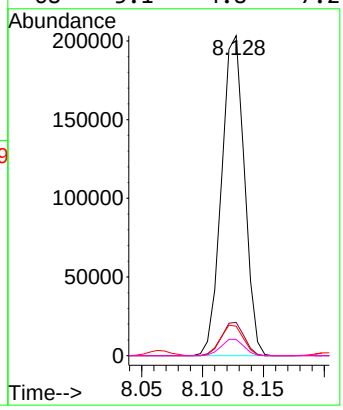
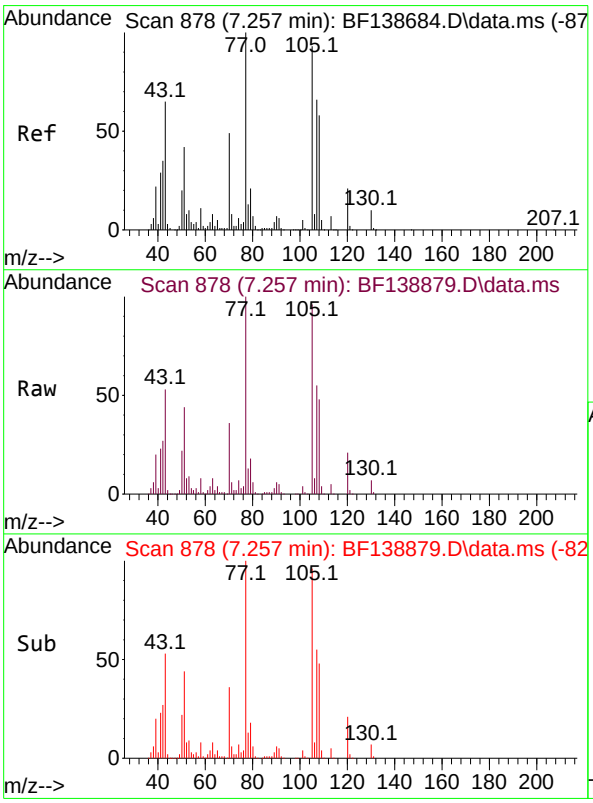
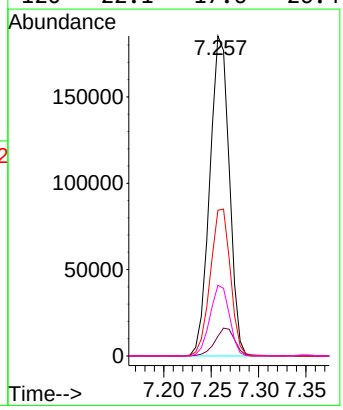


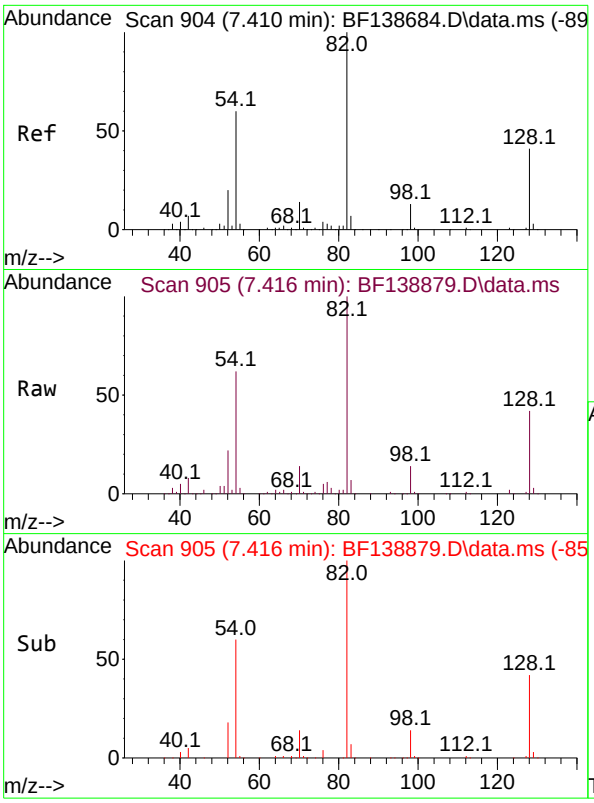




#22
Acetophenone
Concen: 40.881 ng
RT: 7.257 min Scan# 878
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:105 Resp: 265553

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 71 | 6.2 | 7.2 | 10.8# |
| 51 | 45.5 | 35.9 | 53.9 |
| 120 | 22.1 | 17.6 | 26.4 |

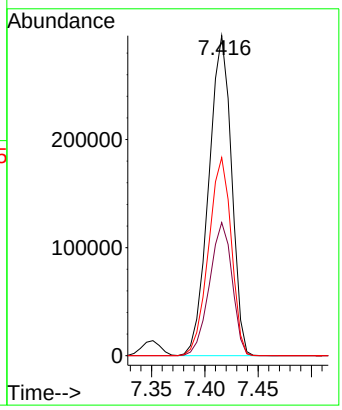





#23
Nitrobenzene-d5
Concen: 81.125 ng
RT: 7.416 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion: 82 Resp: 44020

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 41.6 | 32.8 | 49.2 |
| 54 | 61.9 | 48.3 | 72.5 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

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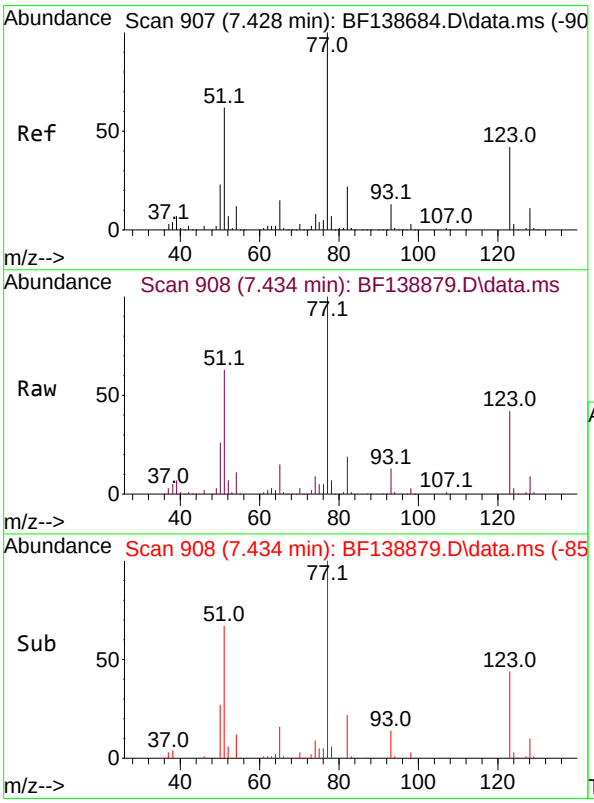
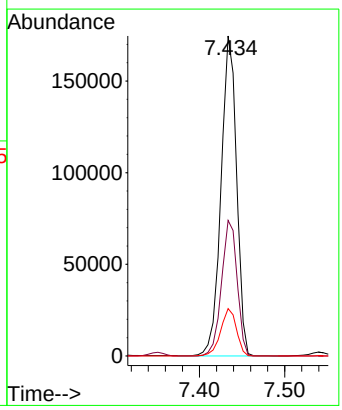
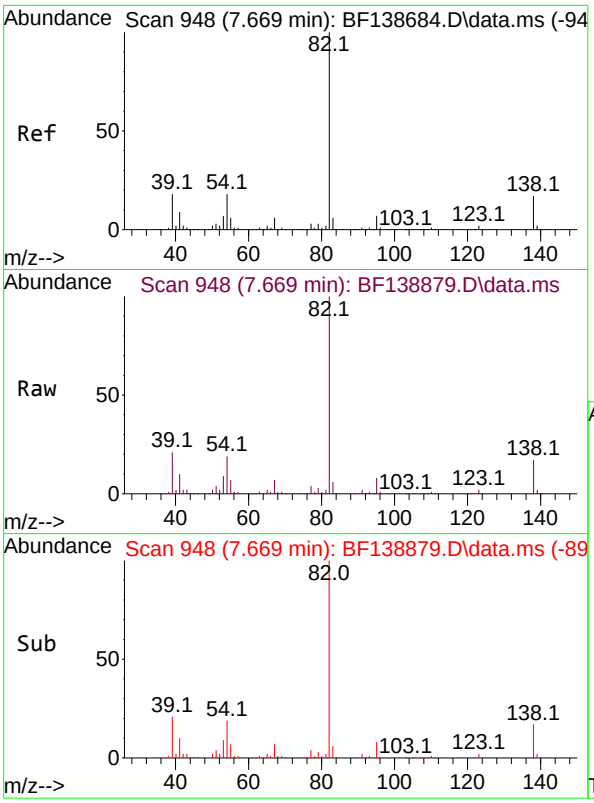



#24
Nitrobenzene
Concen: 40.226 ng
RT: 7.434 min Scan# 908
Delta R.T. 0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion: 77 Resp: 222112

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 123 | 42.3 | 33.3 | 49.9 |
| 65 | 14.8 | 11.9 | 17.9 |






#25
Isophorone
Concen: 39.454 ng
RT: 7.669 min Scan# 94
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion: 82 Resp: 36556

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 95 | 8.2 | 5.7 | 8.5 |
| 138 | 16.8 | 13.7 | 20.5 |

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

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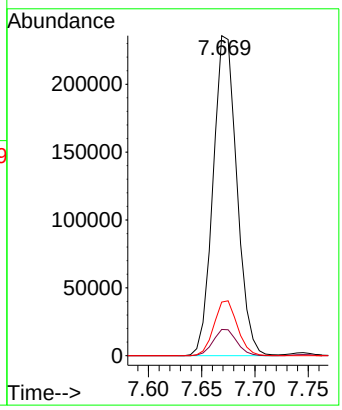
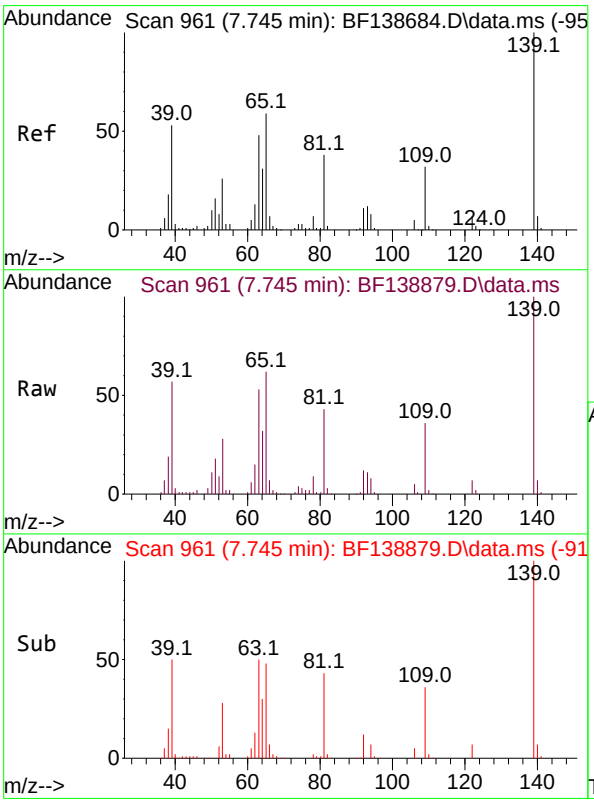
Supervised By :mohammad ahmed 08/12/2024

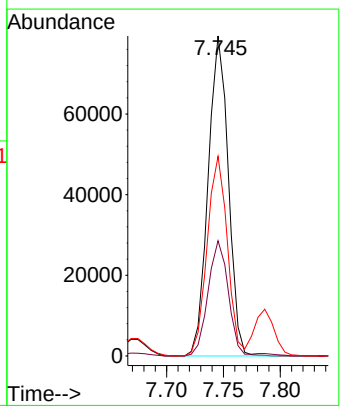


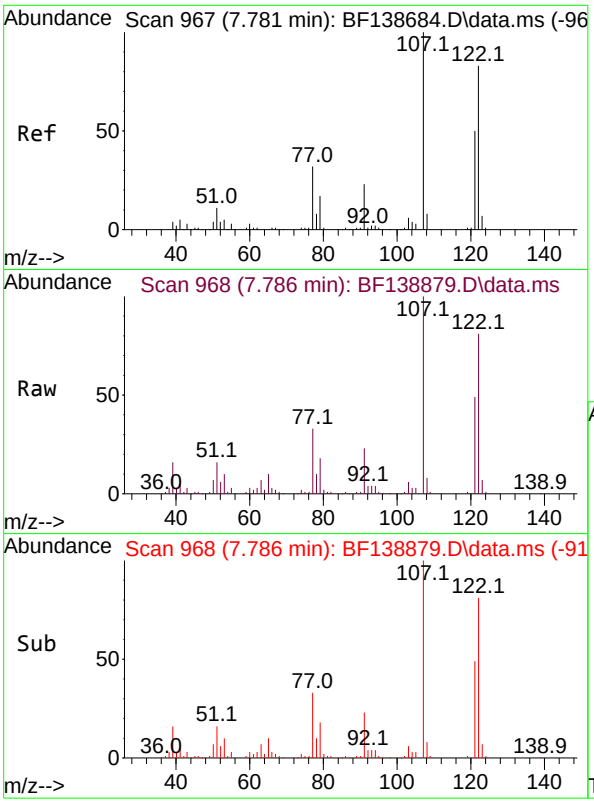




#26
2-Nitrophenol
Concen: 41.211 ng
RT: 7.745 min Scan# 961
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:139 Resp: 97900

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 36.0 | 25.9 | 38.9 |
| 65 | 62.4 | 47.0 | 70.6 |

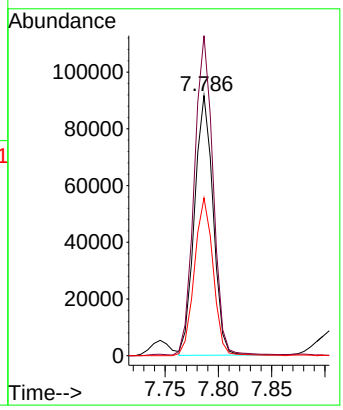





#27
2,4-Dimethylphenol
Concen: 39.127 ng
RT: 7.786 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:122 Resp: 11121

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 107 | 123.0 | 95.0 | 142.6 |
| 121 | 60.6 | 47.3 | 70.9 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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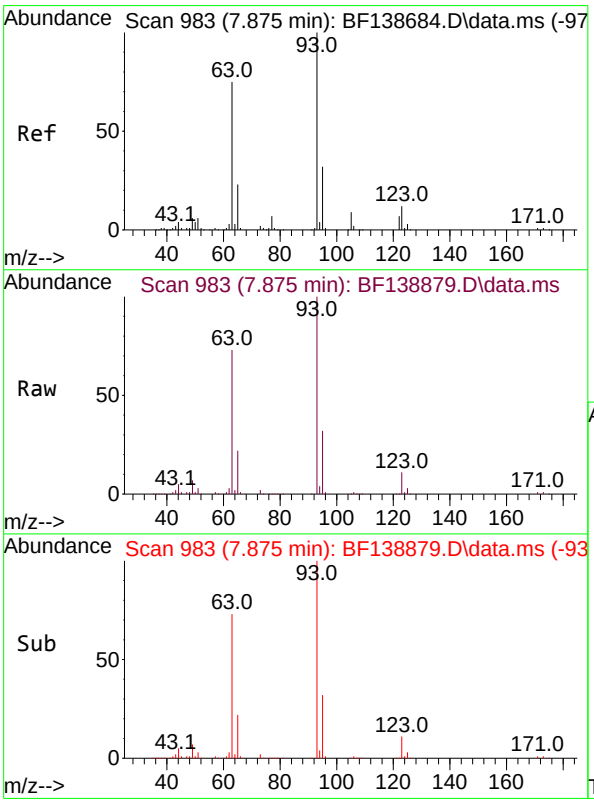
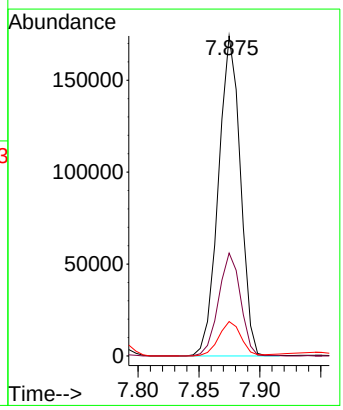
Supervised By :mohammad ahmed 08/12/2024

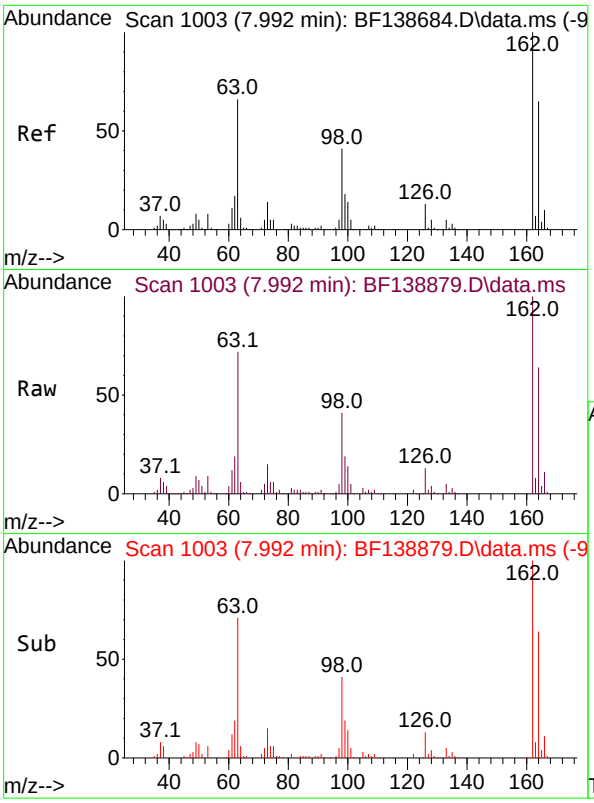



#28
bis(2-Chloroethoxy)methane
Concen: 38.796 ng
RT: 7.875 min Scan# 983
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion: 93 Resp: 218905

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 32.2 | 25.8 | 38.8 |
| 123 | 10.8 | 9.4 | 14.0 |

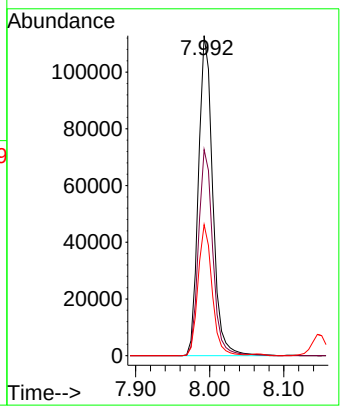





#29
2,4-Dichlorophenol
Concen: 41.240 ng
RT: 7.992 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:162 Resp: 15062

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 164 | 64.4 | 44.7 | 84.7 |
| 98 | 41.0 | 20.8 | 60.8 |




**Instrument :**
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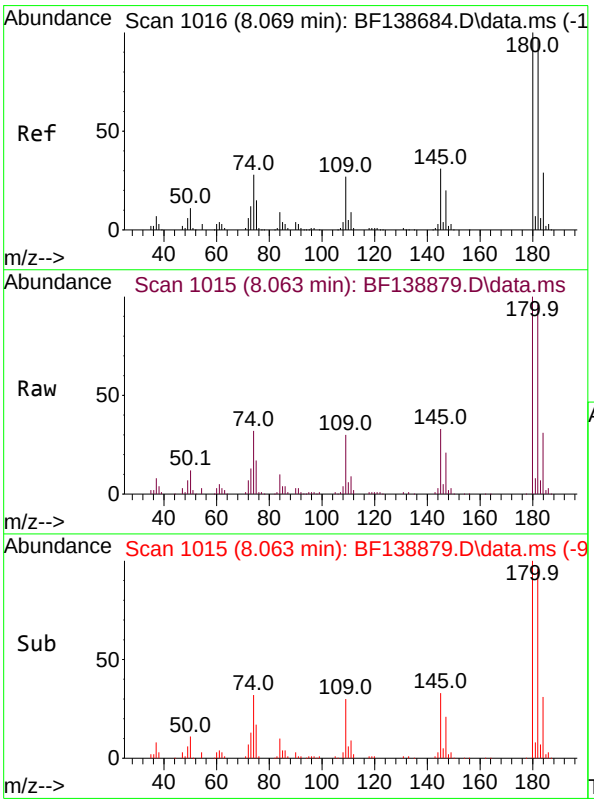
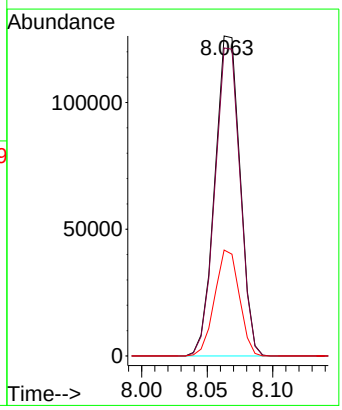
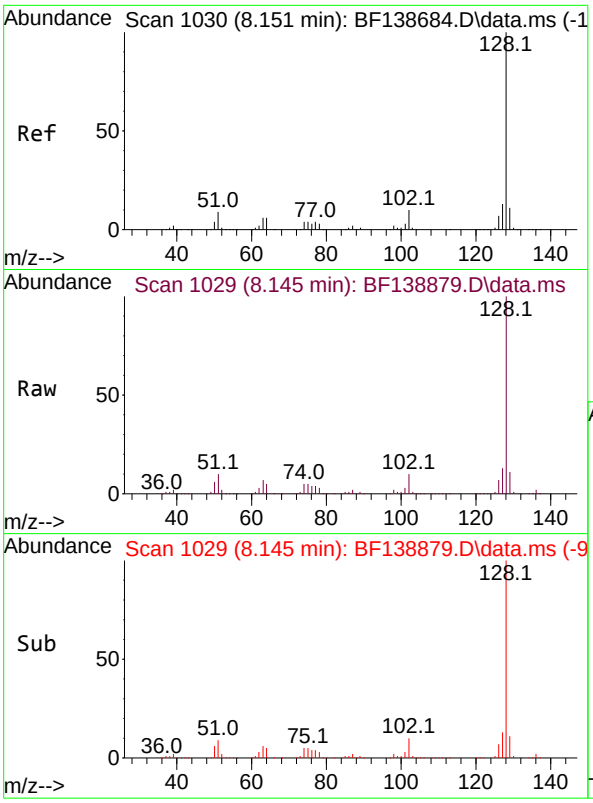



#30
1,2,4-Trichlorobenzene
Concen: 40.076 ng
RT: 8.063 min Scan# 1015
Delta R.T. -0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:180 Resp: 168914

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 96.2 | 76.9 | 115.3 |
| 145 | 33.1 | 25.0 | 37.4 |

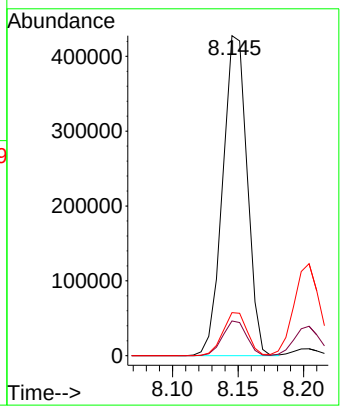





#31
Naphthalene
Concen: 39.667 ng
RT: 8.145 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:128 Resp: 55392

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 10.9 | 8.7 | 13.1 |
| 127 | 13.4 | 10.6 | 16.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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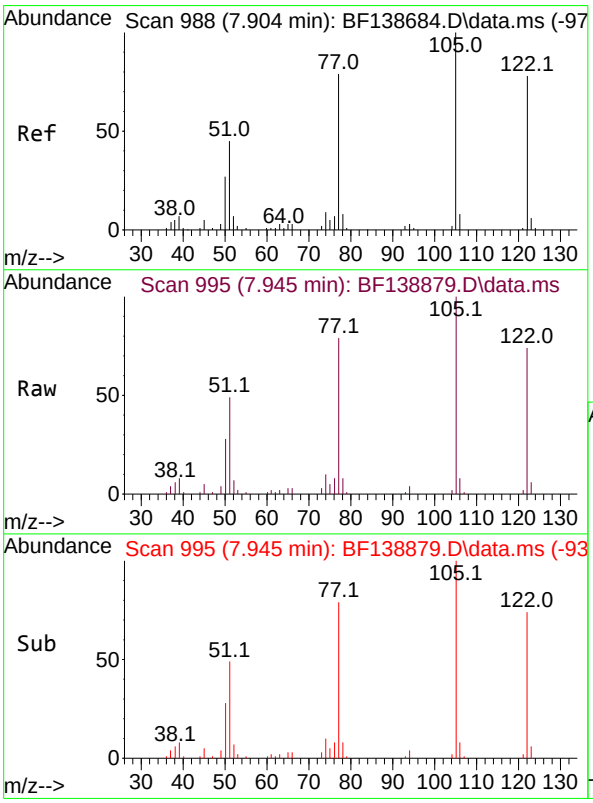
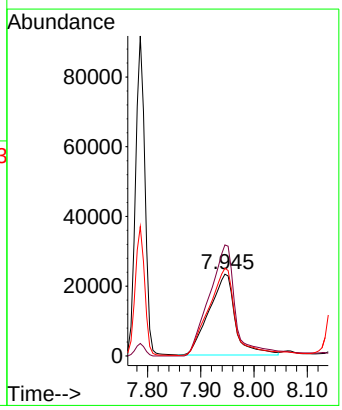
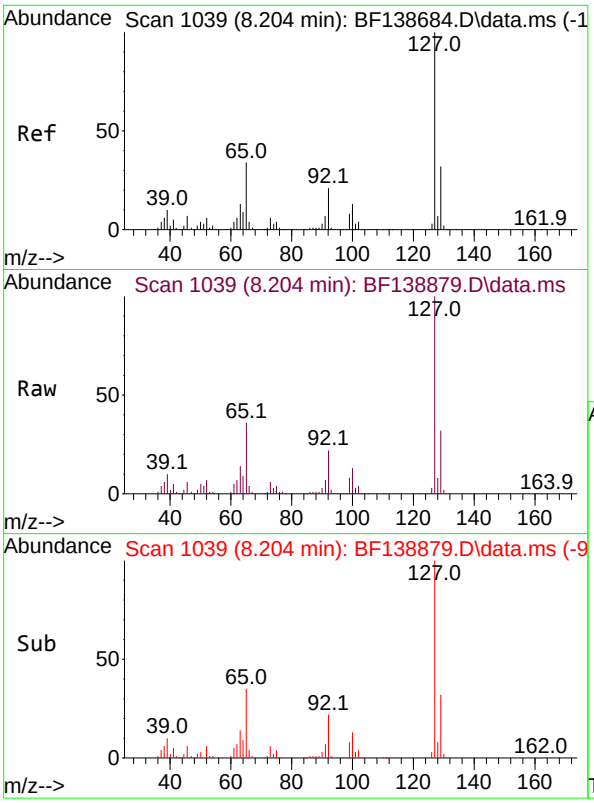



#32
Benzoic acid
Concen: 35.363 ng
RT: 7.945 min Scan# 995
Delta R.T. 0.041 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:122 Resp: 79011

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 135.9 | 106.7 | 146.7 |
| 77 | 107.2 | 81.1 | 121.1 |

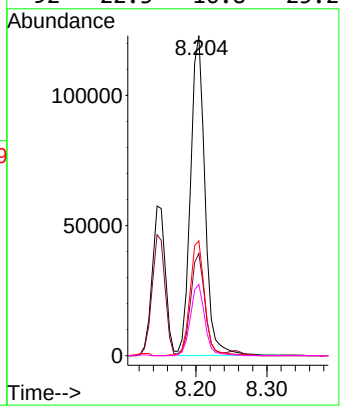





#33
4-Chloroaniline
Concen: 37.080 ng
RT: 8.204 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:127 Resp: 17381

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 31.9 | 25.9 | 38.9 |
| 65 | 35.9 | 27.6 | 41.4 |
| 92 | 22.3 | 16.8 | 25.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

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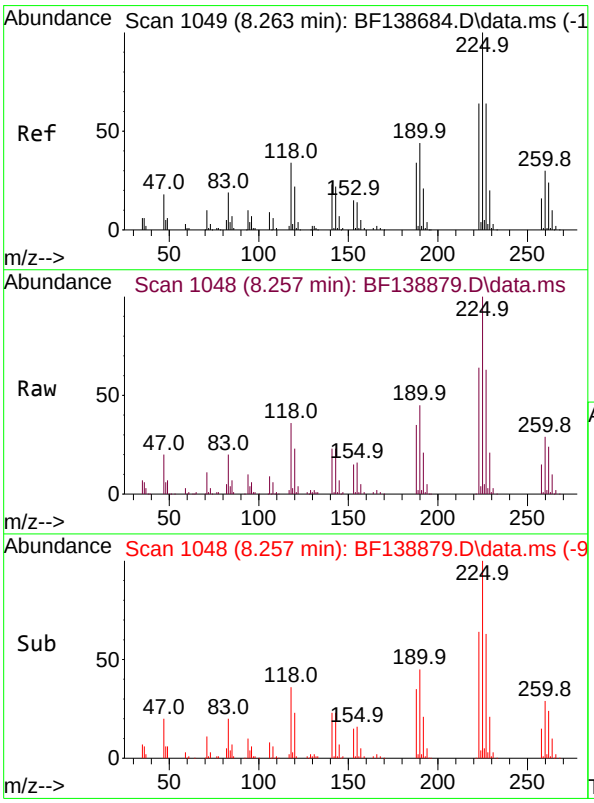
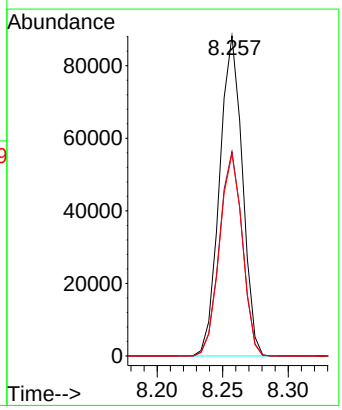
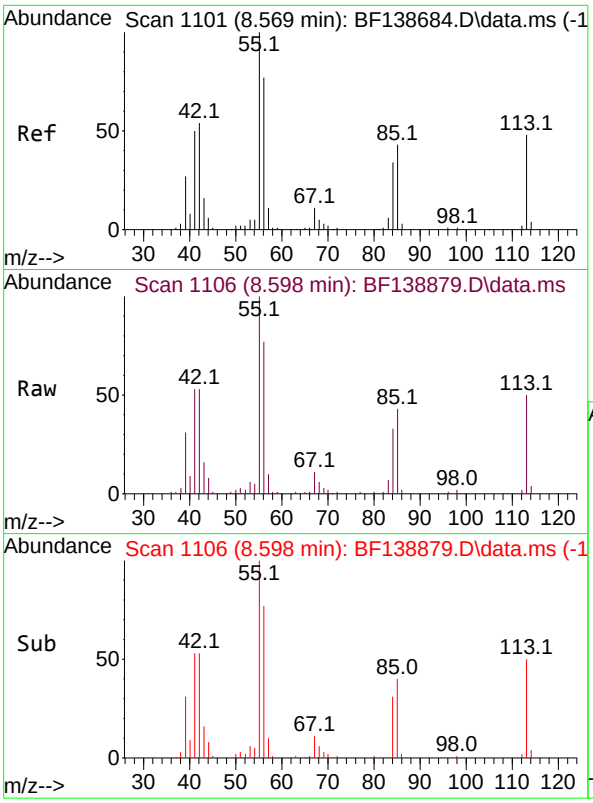



#34
Hexachlorobutadiene
Concen: 41.748 ng
RT: 8.257 min Scan# 1048
Delta R.T. -0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:225 Resp: 106581

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.9 | 51.2 | 76.8 |
| 227 | 63.2 | 51.1 | 76.7 |

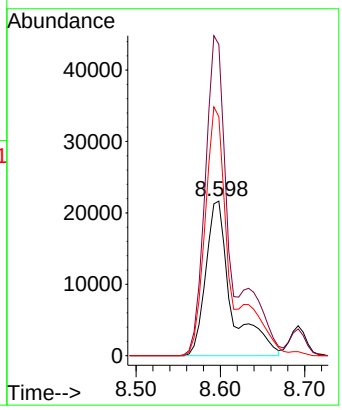





#35
Caprolactam
Concen: 42.020 ng m
RT: 8.598 min Scan# 1
Delta R.T. 0.029 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:113 Resp: 4579

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 55 | 201.3 | 186.7 | 226.7 |
| 56 | 154.6 | 138.9 | 178.9 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

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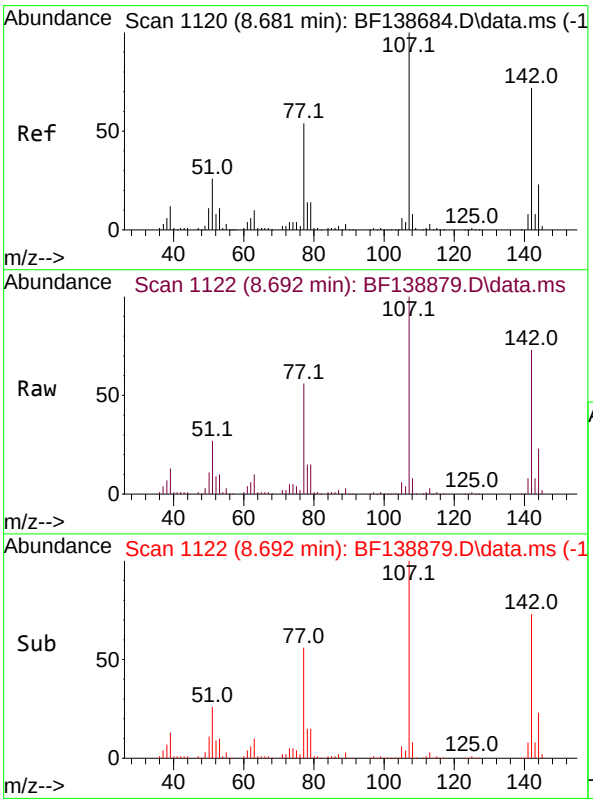
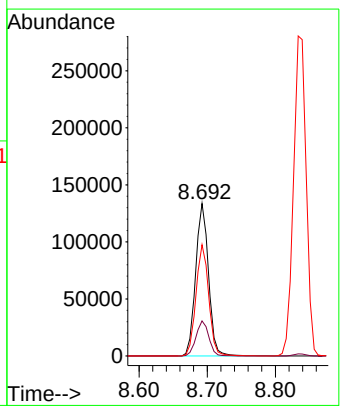
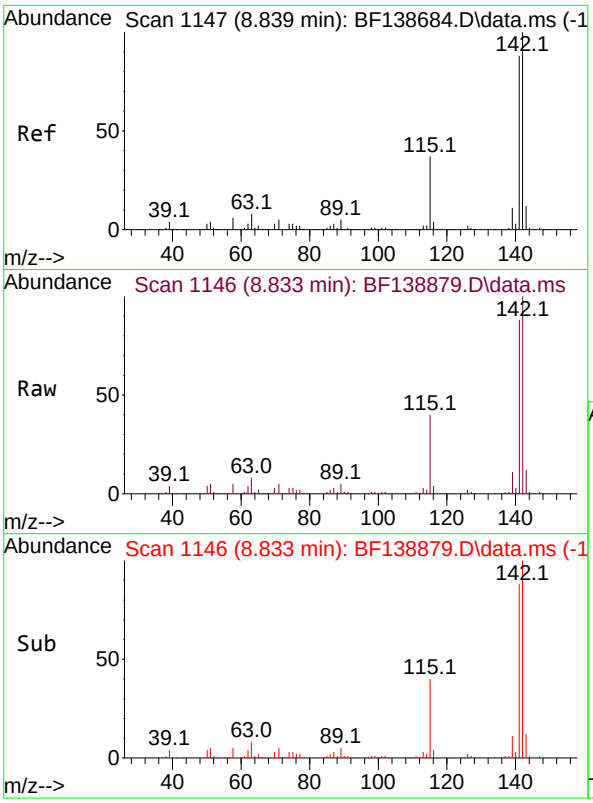



#36
4-Chloro-3-methylphenol
Concen: 41.980 ng
RT: 8.692 min Scan# 1122
Delta R.T. 0.012 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:107 Resp: 175226

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 144 | 23.0 | 18.2 | 27.2 |
| 142 | 72.9 | 57.4 | 86.2 |






#37
2-Methylnaphthalene
Concen: 41.211 ng
RT: 8.833 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:142 Resp: 36344

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 87.6 | 70.8 | 106.2 |

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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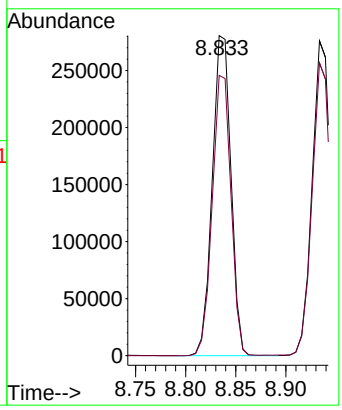
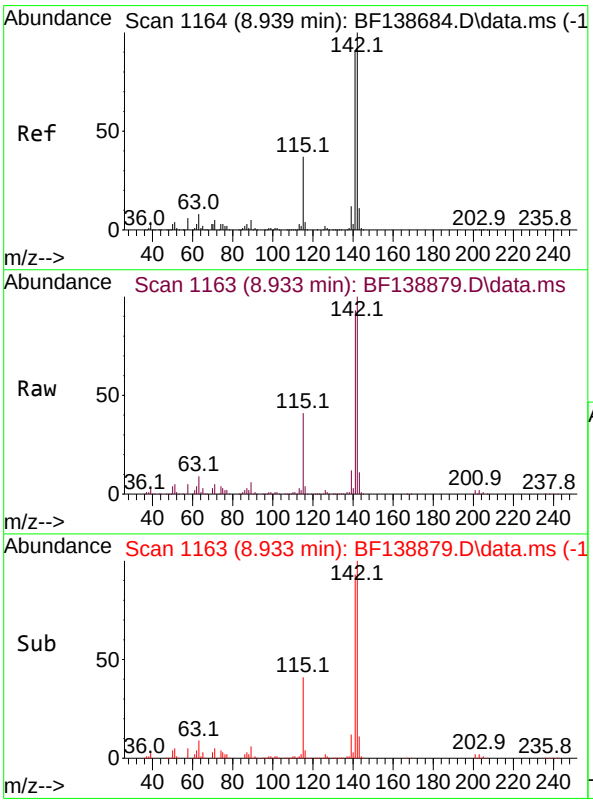
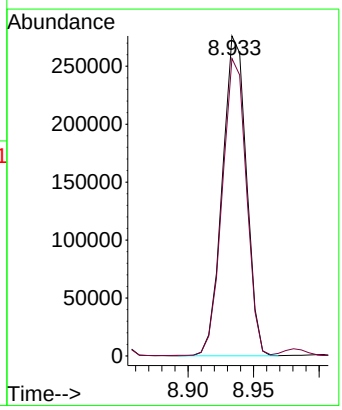


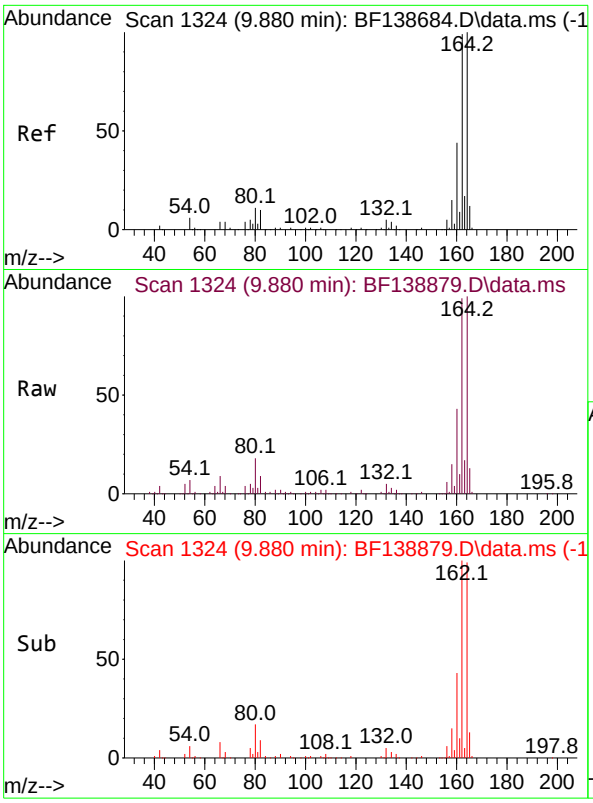




#38
1-Methylnaphthalene
Concen: 40.707 ng
RT: 8.933 min Scan# 1163
Delta R.T. -0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:142 Resp: 351793

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 93.0 | 73.1 | 109.7 |

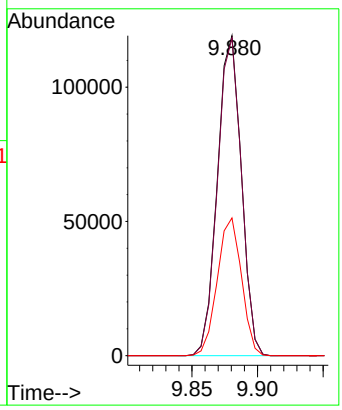





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.880 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:164 Resp: 15108

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 99.2 | 79.4 | 119.0 |
| 160 | 43.1 | 35.1 | 52.7 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

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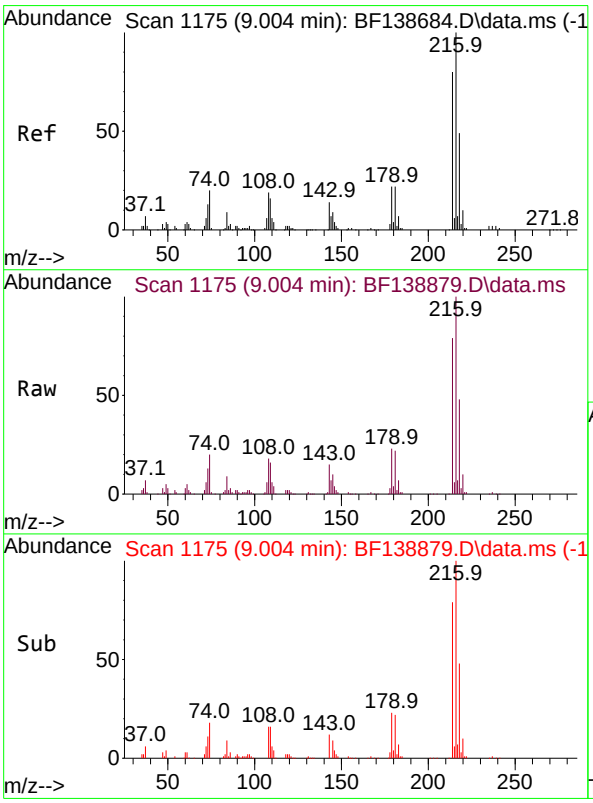
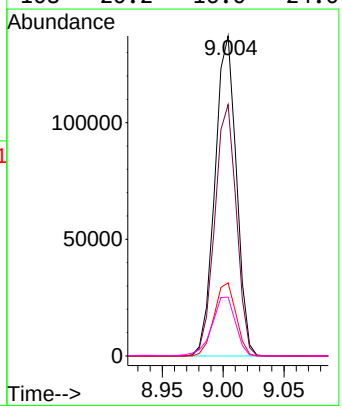
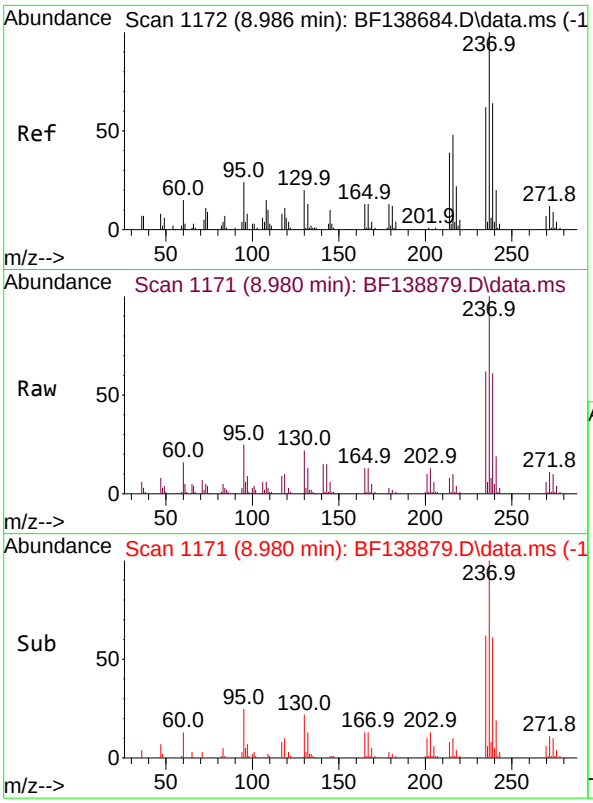



#40
1,2,4,5-Tetrachlorobenzene
Concen: 40.151 ng
RT: 9.004 min Scan# 1175
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:216 Resp: 168508

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 216 | 100 | | |
| 214 | 78.6 | 63.9 | 95.9 |
| 179 | 23.2 | 17.8 | 26.6 |
| 108 | 20.2 | 16.0 | 24.0 |

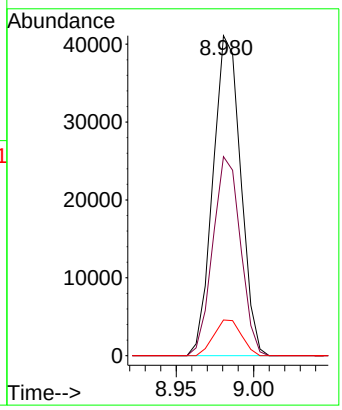





#41
Hexachlorocyclopentadiene
Concen: 48.979 ng
RT: 8.980 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:237 Resp: 5112

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 237 | 100 | | |
| 235 | 62.2 | 41.8 | 81.8 |
| 272 | 11.1 | 0.0 | 32.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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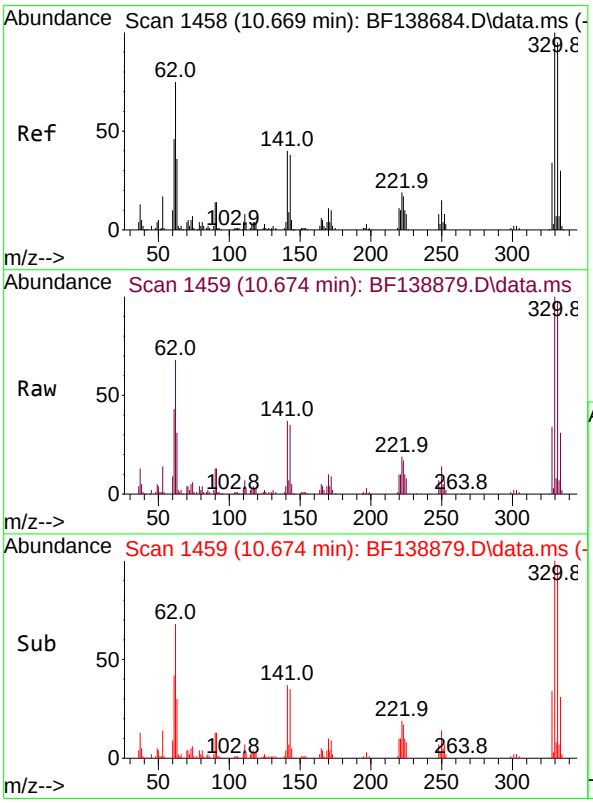
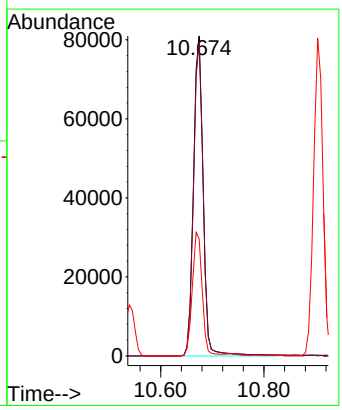
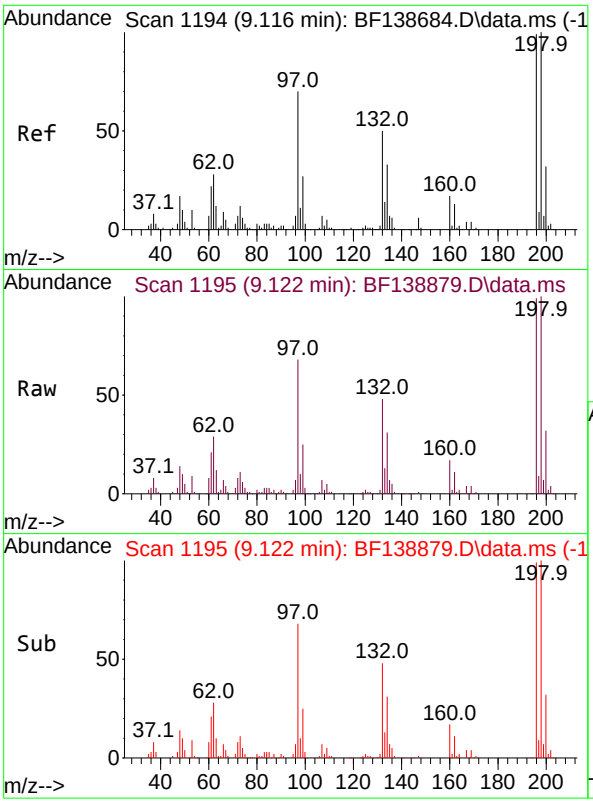



#42
2,4,6-Tribromophenol
Concen: 85.652 ng
RT: 10.674 min Scan# 1459
Delta R.T. 0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:330 Resp: 105999

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 97.6 | 76.4 | 114.6 |
| 141 | 39.3 | 31.1 | 46.7 |

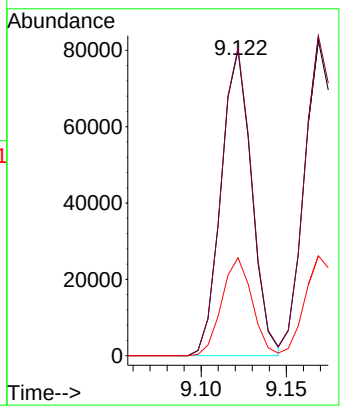





#43
2,4,6-Trichlorophenol
Concen: 39.044 ng
RT: 9.122 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:196 Resp: 9990

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 100.8 | 80.5 | 120.7 |
| 200 | 32.1 | 25.9 | 38.9 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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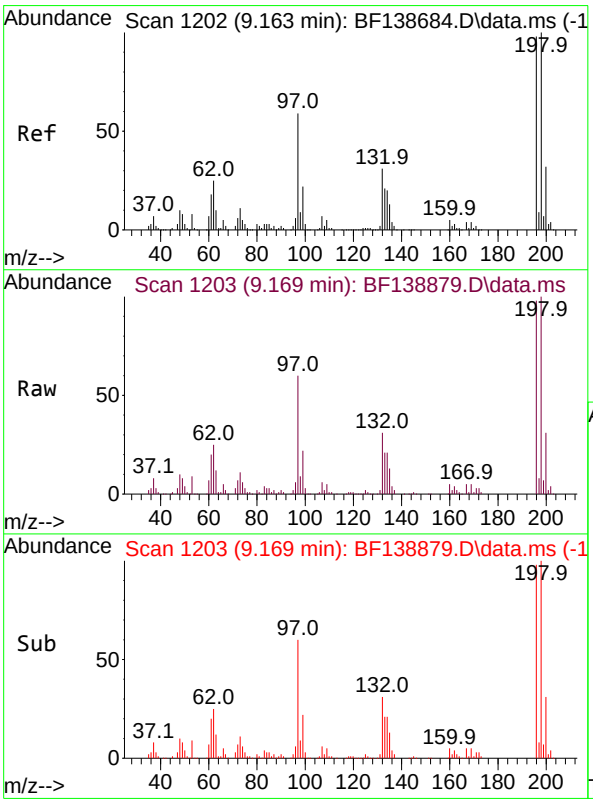
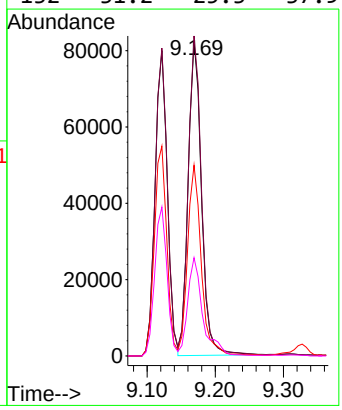
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

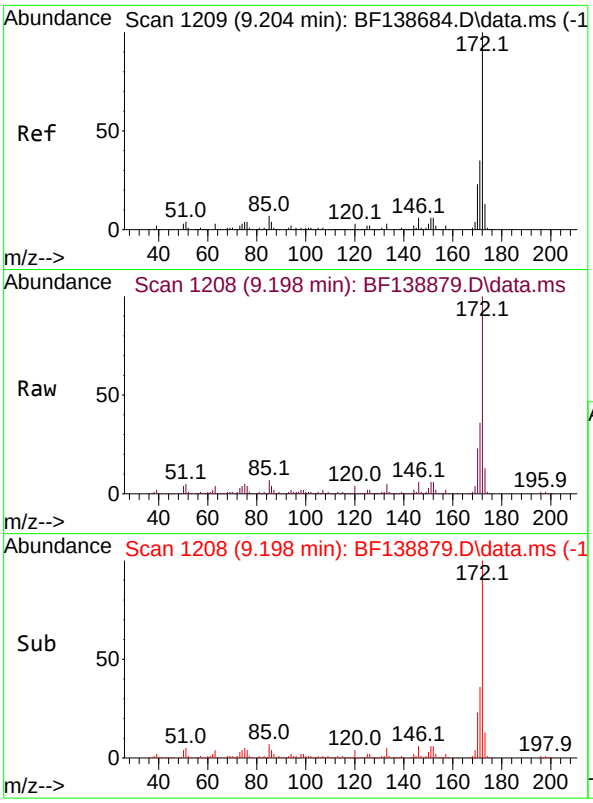



#44
2,4,5-Trichlorophenol
Concen: 39.672 ng
RT: 9.169 min Scan# 1203
Delta R.T. 0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:196 Resp: 110978

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 101.5 | 81.2 | 121.8 |
| 97 | 60.5 | 47.8 | 71.6 |
| 132 | 31.2 | 25.3 | 37.9 |

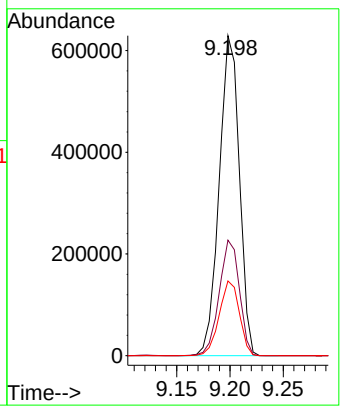





#45
2-Fluorobiphenyl
Concen: 82.084 ng
RT: 9.198 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:172 Resp: 82537

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.1 | 28.3 | 42.5 |
| 170 | 23.4 | 18.8 | 28.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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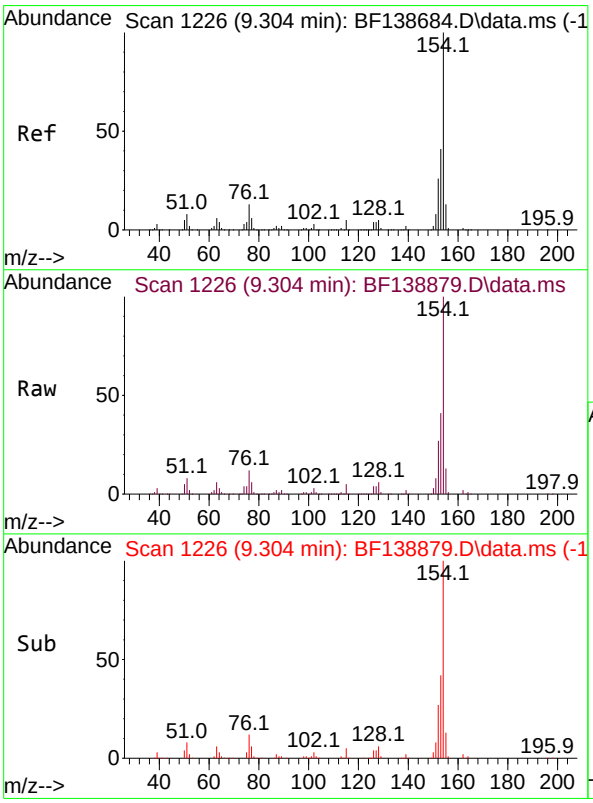
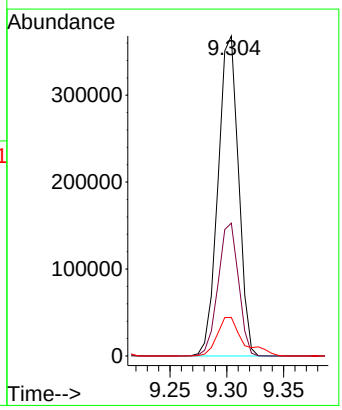
Supervised By :mohammad ahmed 08/12/2024

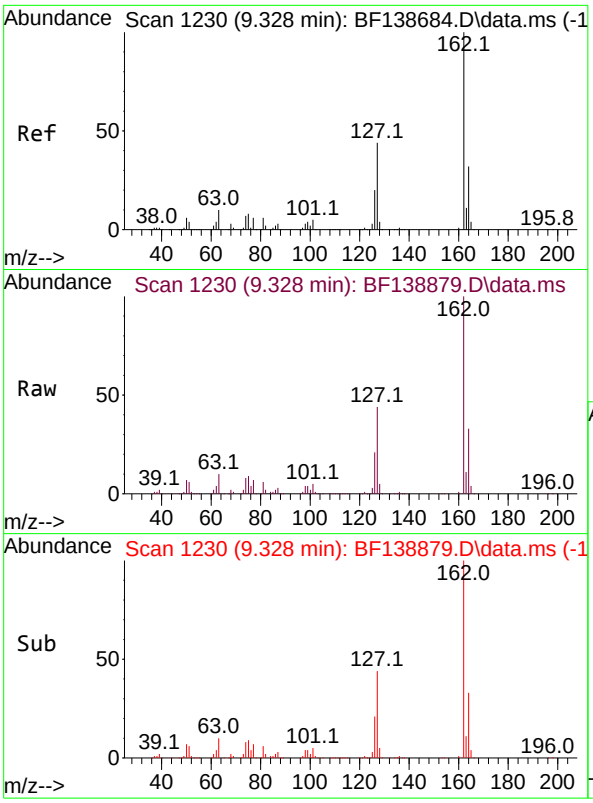



#46
1,1'-Biphenyl
Concen: 39.023 ng
RT: 9.304 min Scan# 1226
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:154 Resp: 461730

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 41.5 | 20.8 | 60.8 |
| 76 | 12.0 | 0.0 | 32.8 |

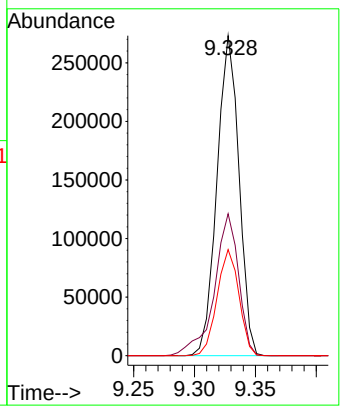





#47
2-Chloronaphthalene
Concen: 39.064 ng
RT: 9.328 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:162 Resp: 34377

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 127 | 44.4 | 35.4 | 53.2 |
| 164 | 33.1 | 25.6 | 38.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

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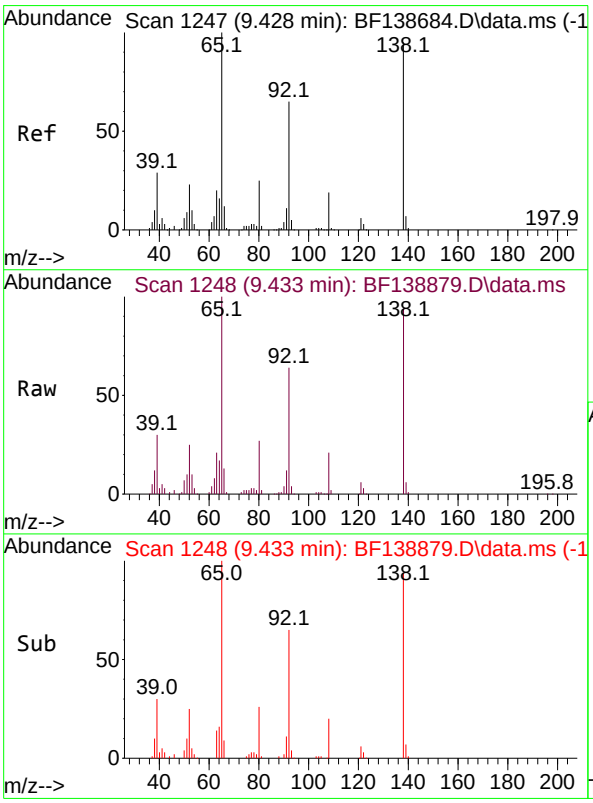
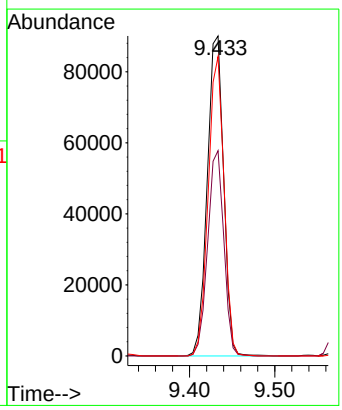
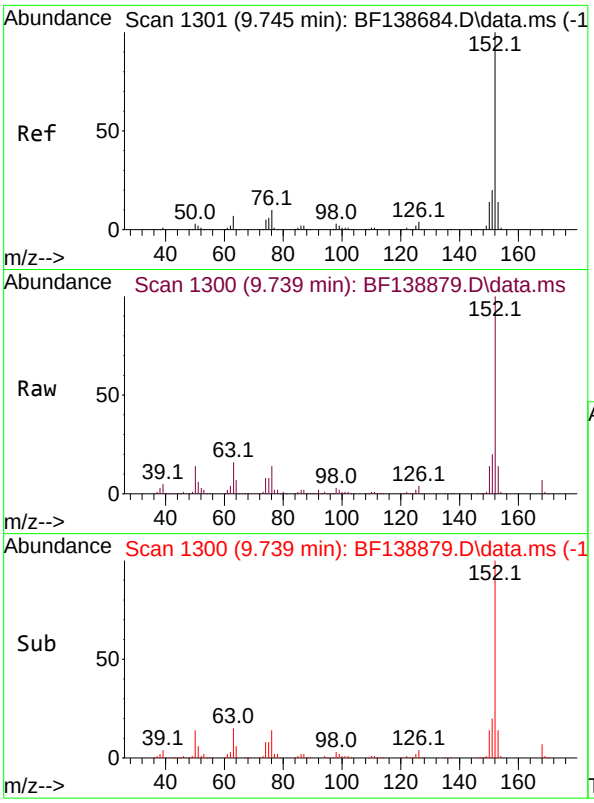



#48
2-Nitroaniline
Concen: 40.306 ng
RT: 9.433 min Scan# 1248
Delta R.T. 0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion: 65 Resp: 120246

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 92 | 64.2 | 52.0 | 78.0 |
| 138 | 93.6 | 76.2 | 114.4 |

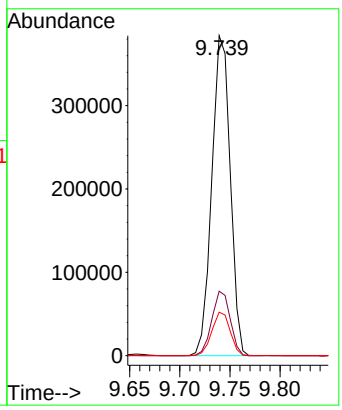





#49
Acenaphthylene
Concen: 39.295 ng
RT: 9.739 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:152 Resp: 49045

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.1 | 16.0 | 24.0 |
| 153 | 13.6 | 11.0 | 16.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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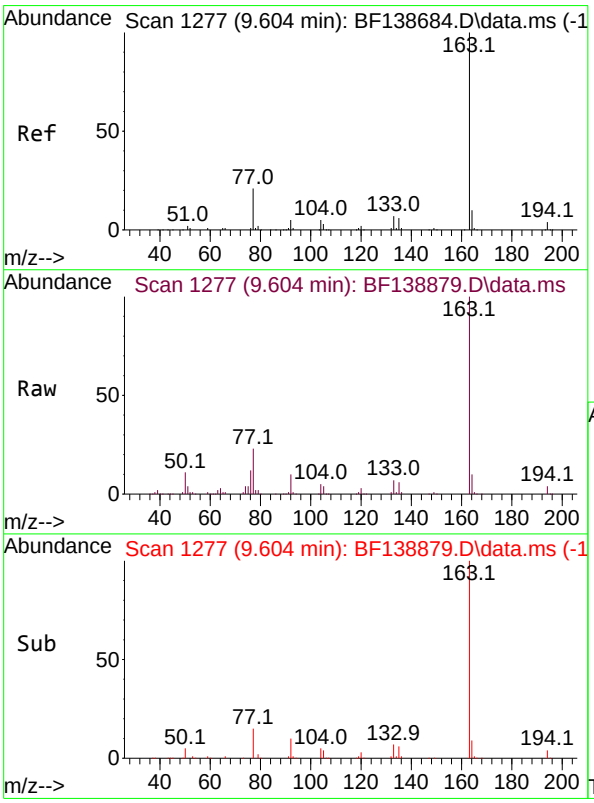
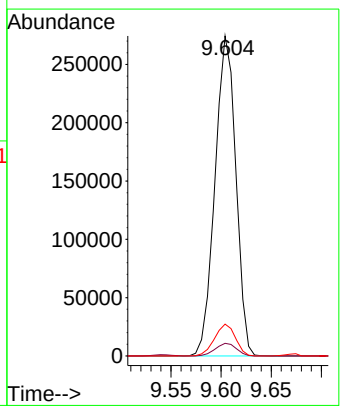
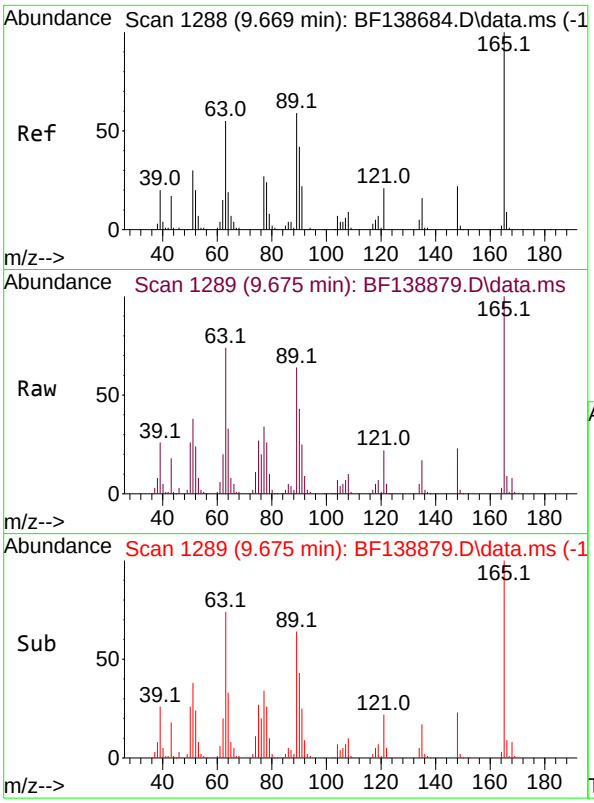



#50
Dimethylphthalate
Concen: 41.104 ng
RT: 9.604 min Scan# 1277
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:163 Resp: 397073

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 4.0 | 3.1 | 4.7 |
| 164 | 9.9 | 7.8 | 11.8 |






#51
2,6-Dinitrotoluene
Concen: 41.164 ng
RT: 9.675 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:165 Resp: 8974

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 74.1 | 52.0 | 78.0 |
| 89 | 64.2 | 47.0 | 70.6 |

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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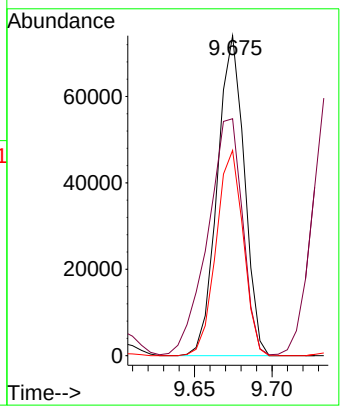
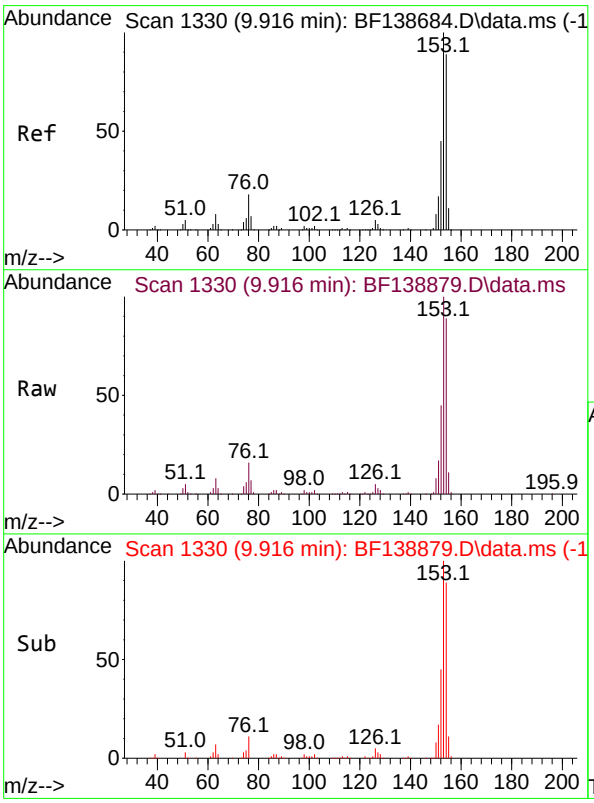
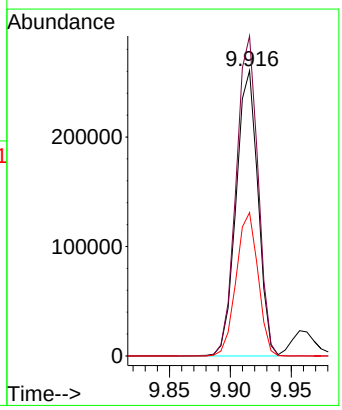


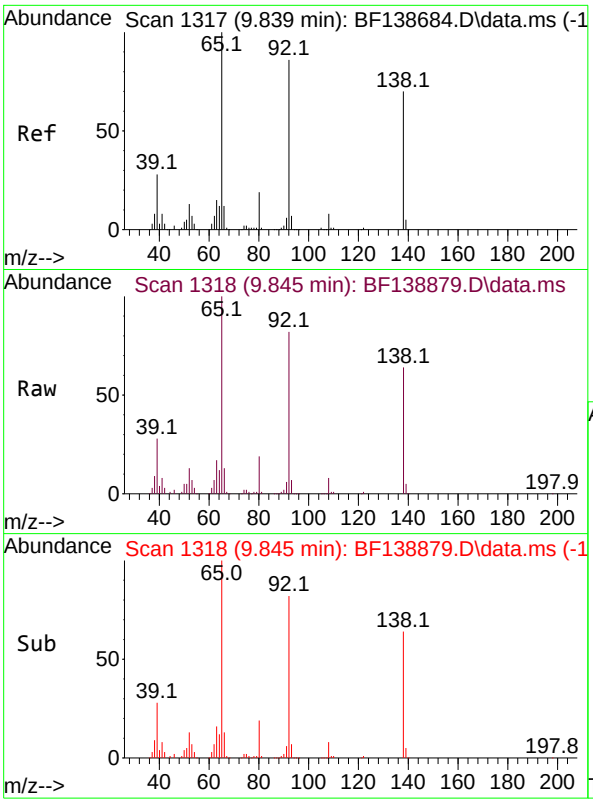




#52
Acenaphthene
Concen: 38.933 ng
RT: 9.916 min Scan# 1330
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:154 Resp: 326651

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 112.2 | 89.9 | 134.9 |
| 152 | 50.3 | 40.6 | 60.8 |

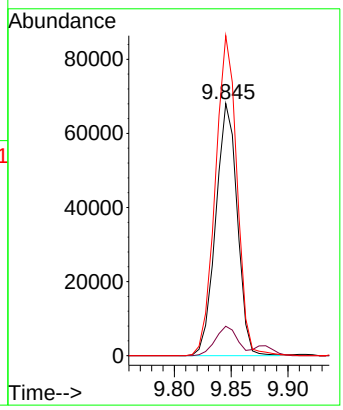





#53
3-Nitroaniline
Concen: 39.833 ng
RT: 9.845 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:138 Resp: 8977

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 108 | 11.7 | 9.1 | 13.7 |
| 92 | 126.9 | 98.7 | 148.1 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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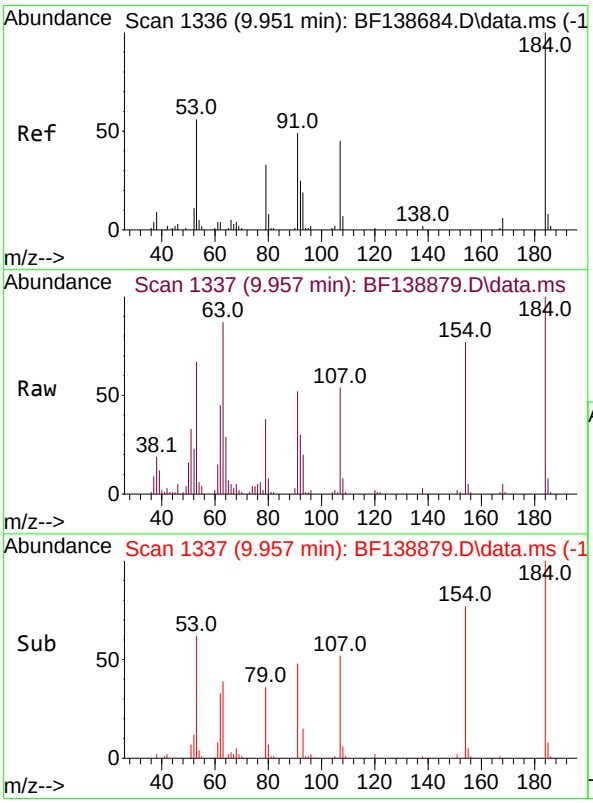
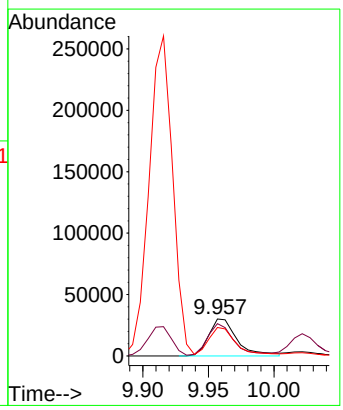
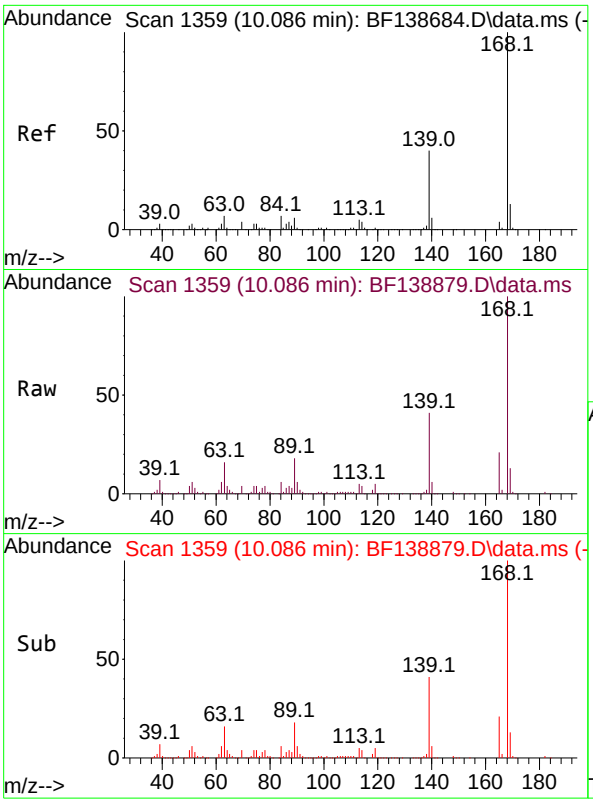



#54
2,4-Dinitrophenol
Concen: 45.240 ng
RT: 9.957 min Scan# 1337
Delta R.T. 0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:184 Resp: 45402

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 63 | 87.4 | 57.5 | 86.3# |
| 154 | 77.0 | 51.7 | 77.5 |

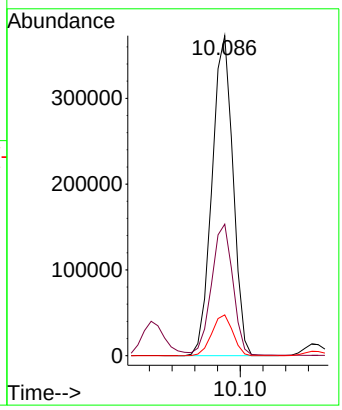





#55
Dibenzofuran
Concen: 40.270 ng
RT: 10.086 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:168 Resp: 47693

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 41.1 | 32.6 | 49.0 |
| 169 | 12.7 | 10.7 | 16.1 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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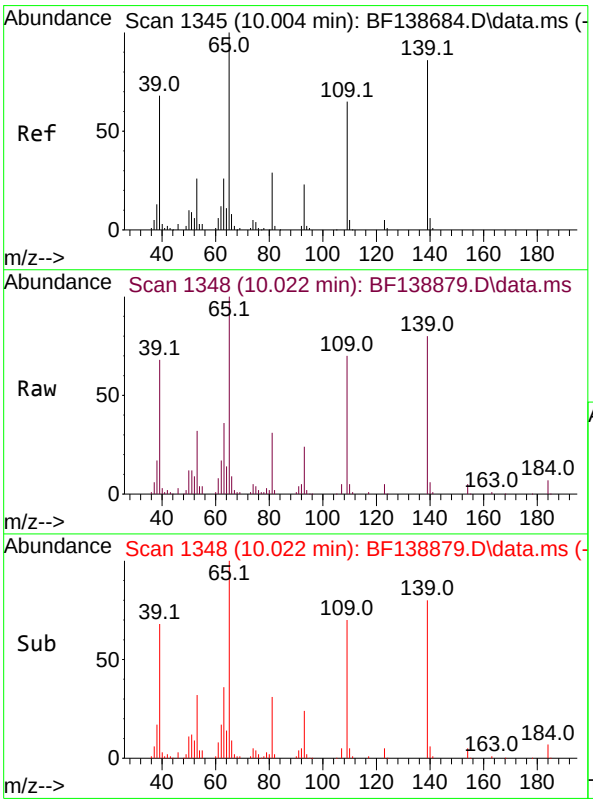
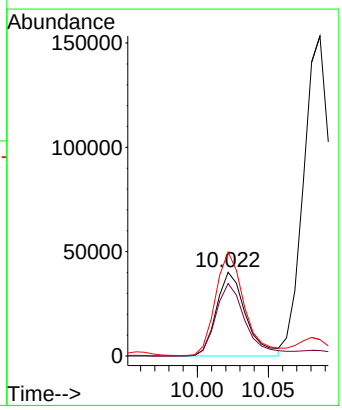
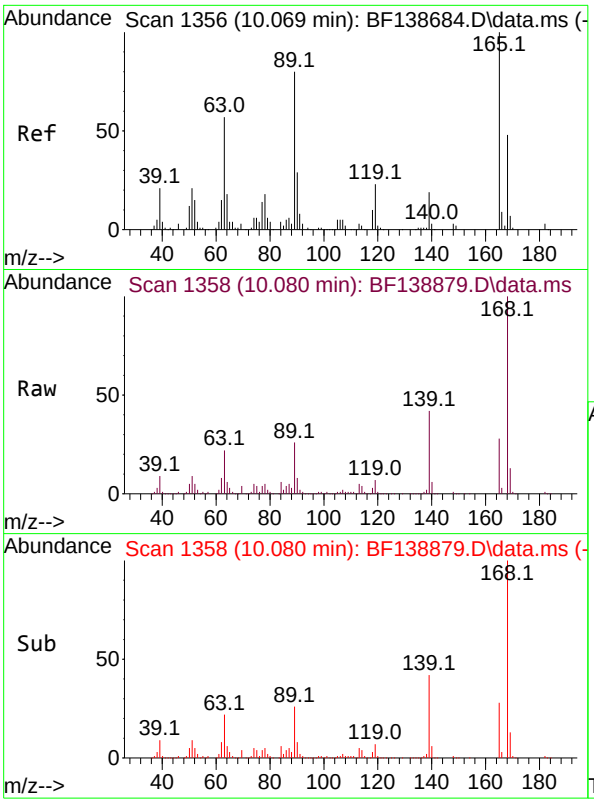



#56
4-Nitrophenol
Concen: 42.666 ng
RT: 10.022 min Scan# 1348
Delta R.T. 0.018 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:139 Resp: 57826

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 86.6 | 55.5 | 95.5 |
| 65 | 124.3 | 96.7 | 136.7 |

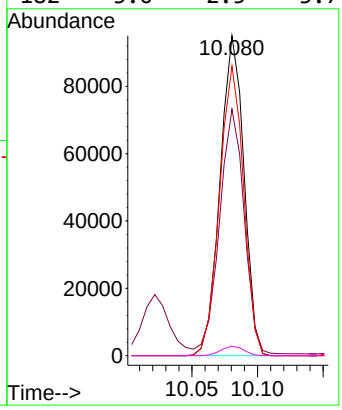





#57
2,4-Dinitrotoluene
Concen: 43.181 ng
RT: 10.080 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:165 Resp: 12010

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 77.0 | 46.3 | 69.5 |
| 89 | 90.5 | 64.2 | 96.4 |
| 182 | 3.0 | 2.5 | 3.7 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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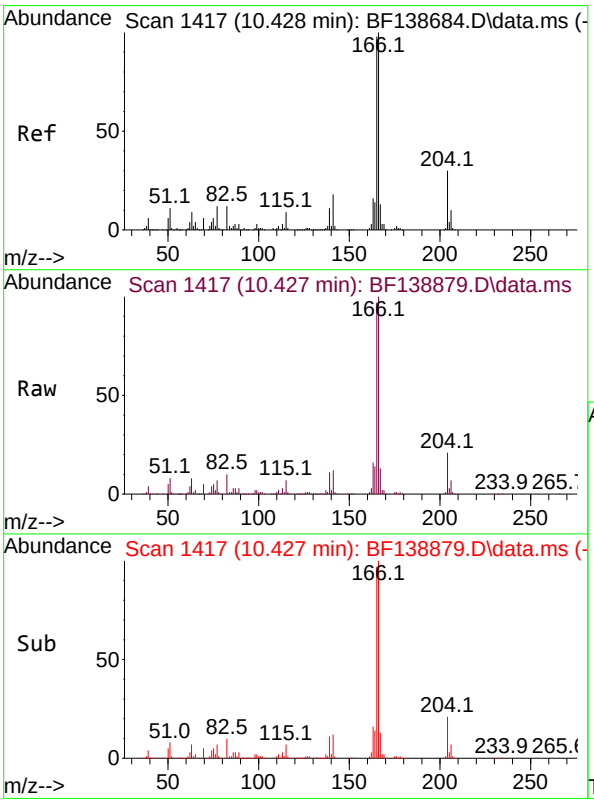
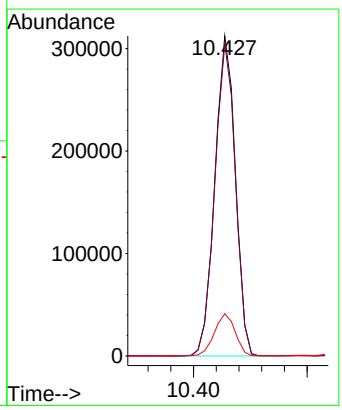
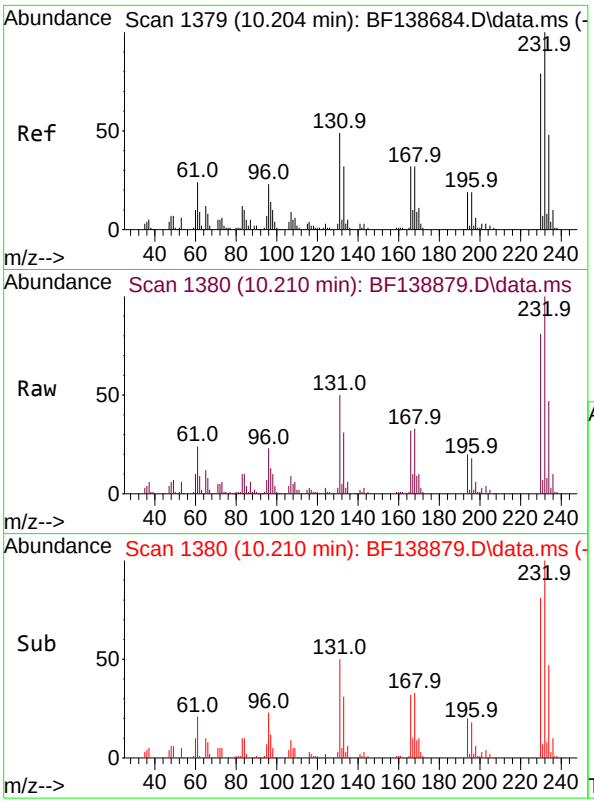



#58
Fluorene
Concen: 41.585 ng
RT: 10.427 min Scan# 1417
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:166 Resp: 392206

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 97.5 | 78.4 | 117.6 |
| 167 | 13.2 | 10.6 | 16.0 |

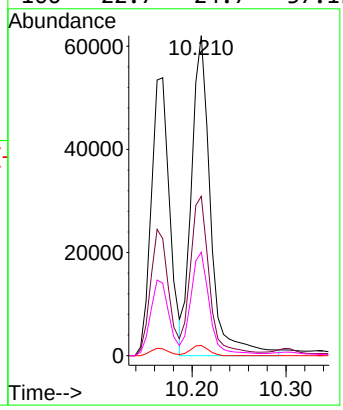





#59
2,3,4,6-Tetrachlorophenol
Concen: 41.037 ng m
RT: 10.210 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:232 Resp: 8776

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 232 | 100 | | |
| 131 | 37.2 | 37.0 | 55.4 |
| 130 | 2.2 | 2.0 | 3.0 |
| 166 | 22.7 | 24.7 | 37.1# |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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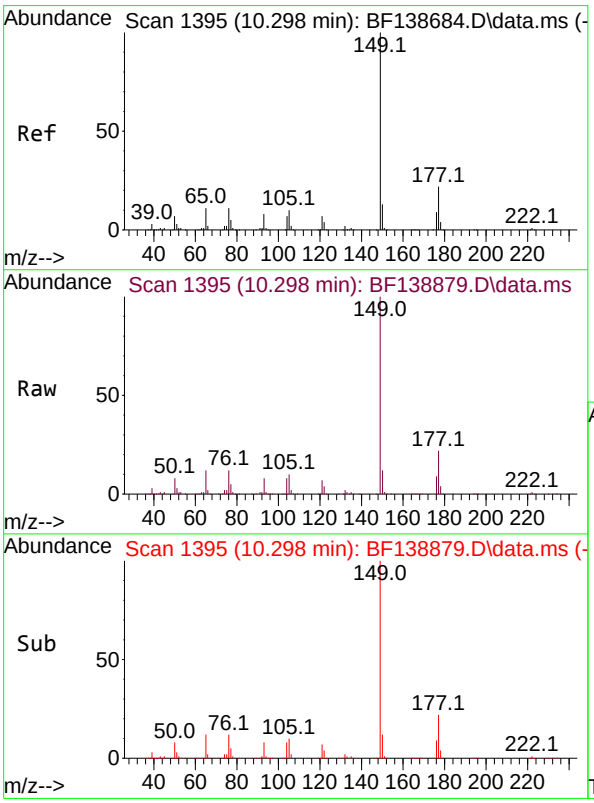
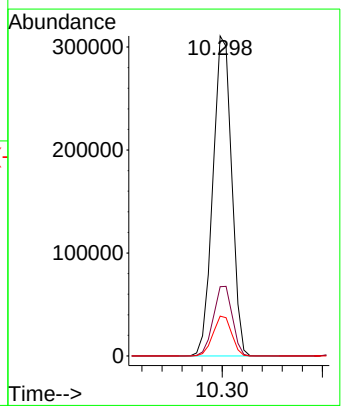
Supervised By :mohammad ahmed 08/12/2024

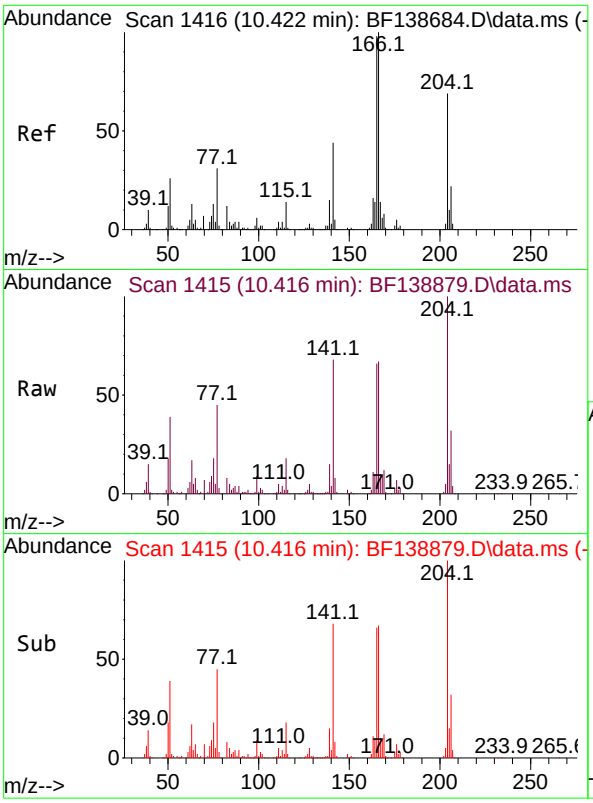



#60
Diethylphthalate
Concen: 43.927 ng
RT: 10.298 min Scan# 1395
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:149 Resp: 402355

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 177 | 21.6 | 17.8 | 26.8 |
| 150 | 12.4 | 10.1 | 15.1 |

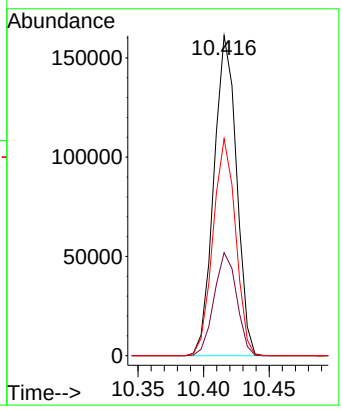





#61
4-Chlorophenyl-phenylether
Concen: 41.737 ng
RT: 10.416 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:204 Resp: 19359

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 204 | 100 | | |
| 206 | 32.2 | 26.1 | 39.1 |
| 141 | 67.8 | 51.4 | 77.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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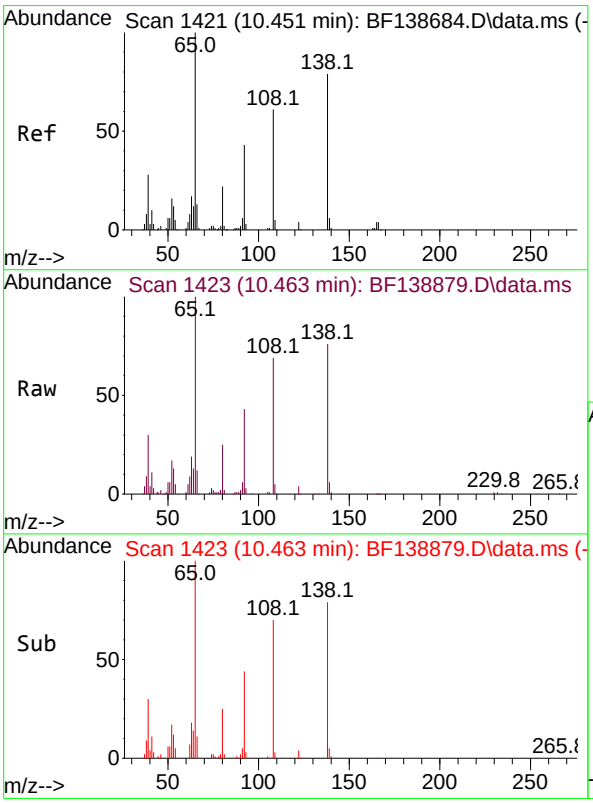
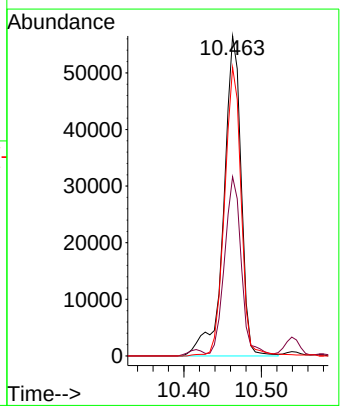
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

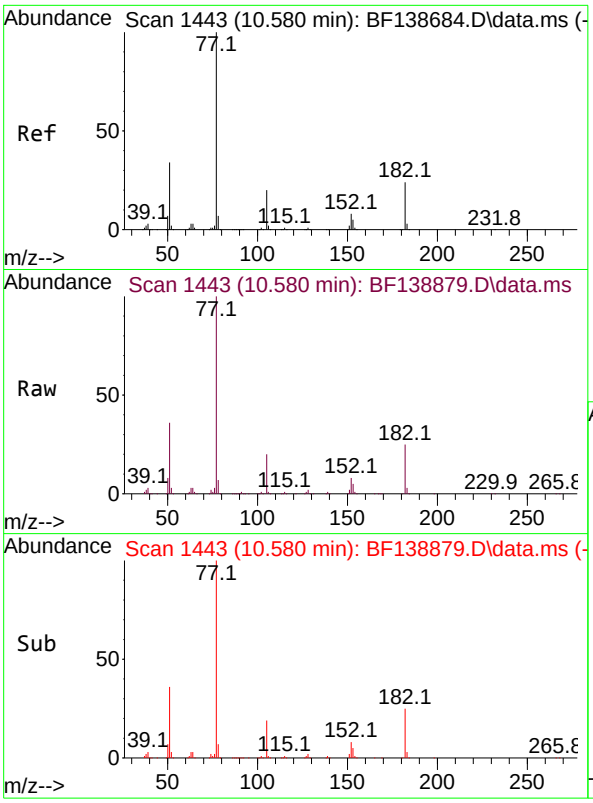



#62
4-Nitroaniline
Concen: 41.114 ng
RT: 10.463 min Scan# 1423
Delta R.T. 0.012 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:138 Resp: 88058

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 56.0 | 34.2 | 74.2 |
| 108 | 90.2 | 56.2 | 96.2 |

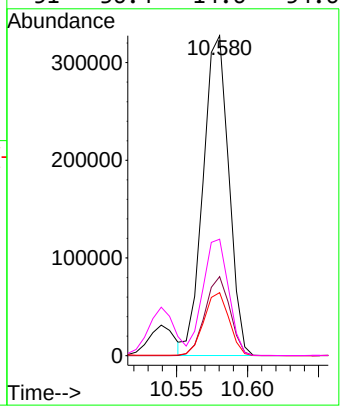





#63
Azobenzene
Concen: 40.571 ng
RT: 10.580 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion: 77 Resp: 41215

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 182 | 24.7 | 3.4 | 43.4 |
| 105 | 19.7 | 0.2 | 40.2 |
| 51 | 36.4 | 14.6 | 54.6 |




**Instrument :**
BNA_F
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SSTDCCC040

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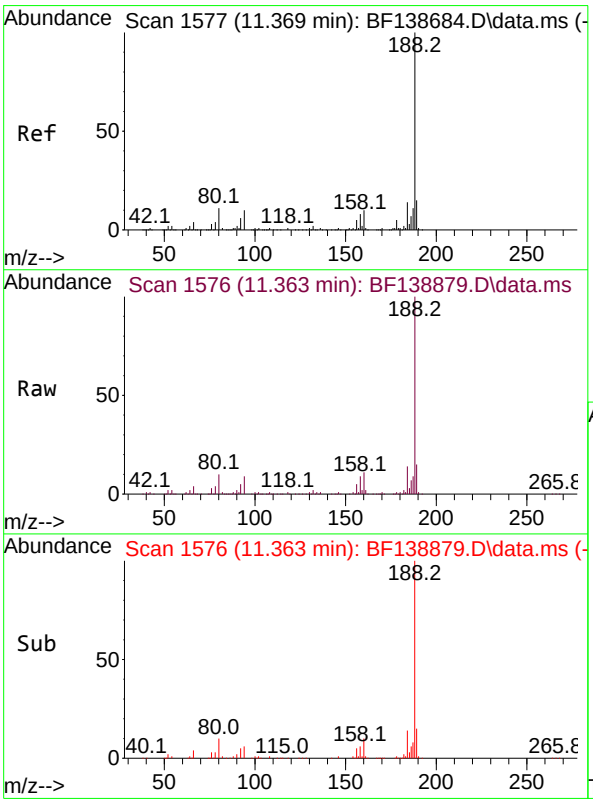
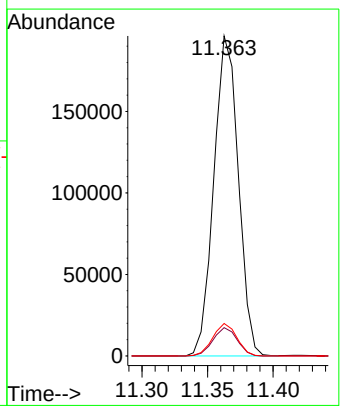
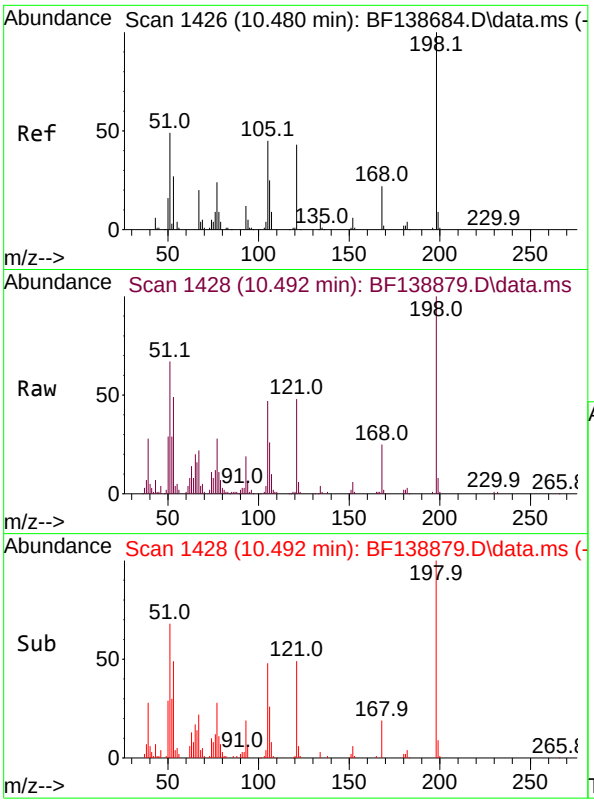



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.363 min Scan# 1576
Delta R.T. -0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:188 Resp: 254940

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 8.8 | 7.6 | 11.4 |
| 80 | 10.2 | 8.6 | 12.8 |

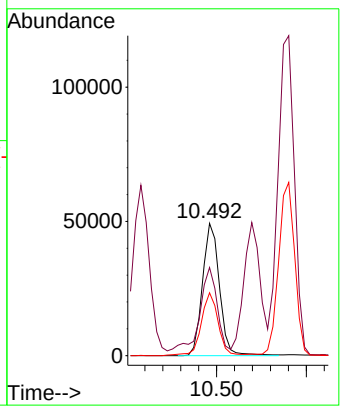





#65
4,6-Dinitro-2-methylphenol
Concen: 41.494 ng
RT: 10.492 min Scan# 14
Delta R.T. 0.012 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:198 Resp: 6453

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 66.7 | 39.9 | 79.9 |
| 105 | 47.4 | 26.1 | 66.1 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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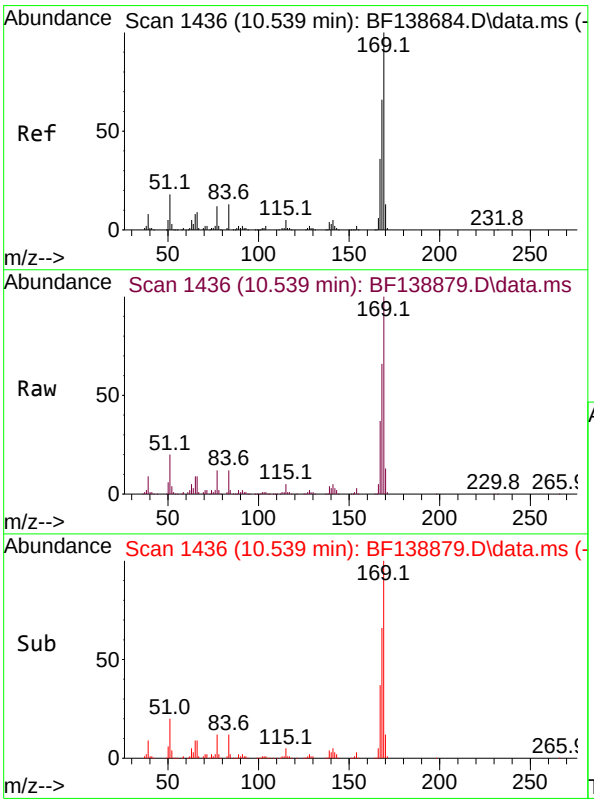
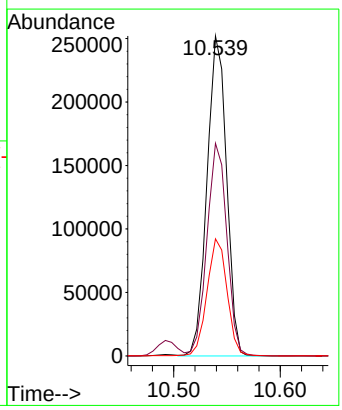
Supervised By :mohammad ahmed 08/12/2024

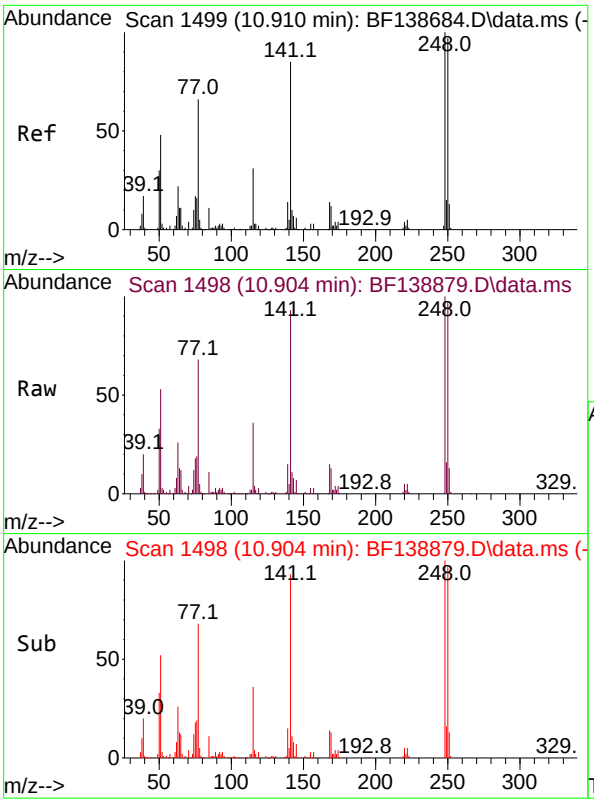



#66
n-Nitrosodiphenylamine
Concen: 40.327 ng
RT: 10.539 min Scan# 1436
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:169 Resp: 321358

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 66.4 | 53.0 | 79.6 |
| 167 | 36.6 | 29.0 | 43.6 |

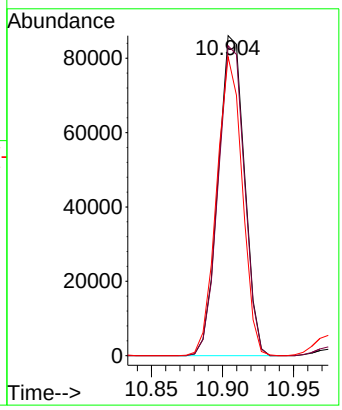





#67
4-Bromophenyl-phenylether
Concen: 40.221 ng
RT: 10.904 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:248 Resp: 111018

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 96.9 | 77.7 | 116.5 |
| 141 | 93.4 | 68.0 | 102.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

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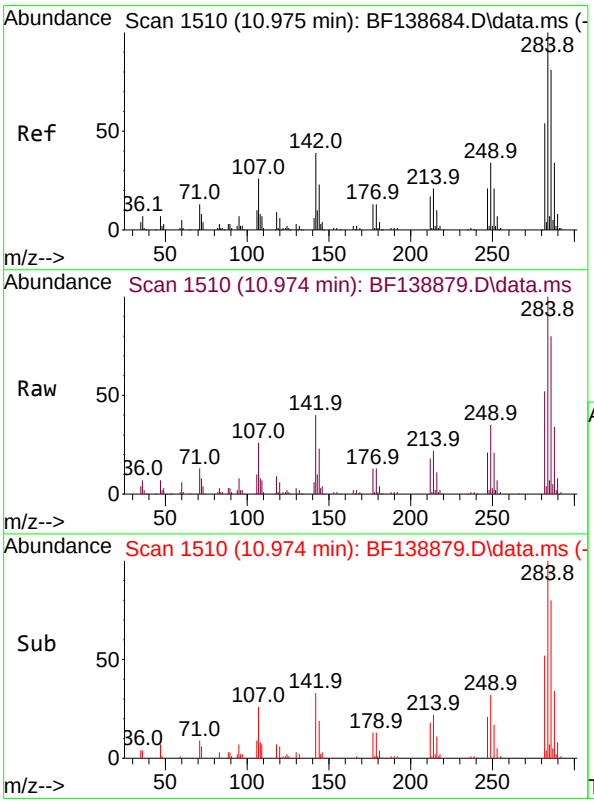
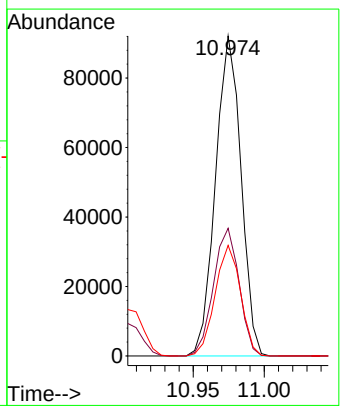
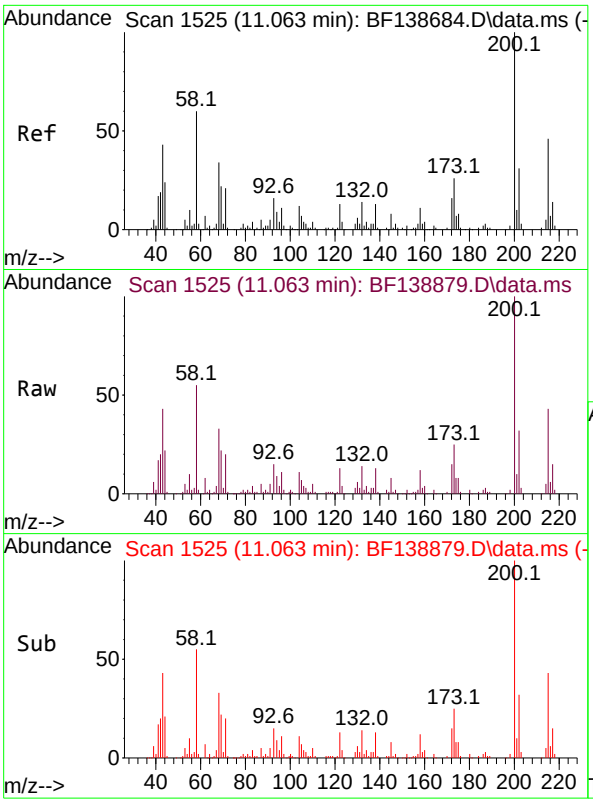



#68
Hexachlorobenzene
Concen: 40.333 ng
RT: 10.974 min Scan# 1510
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:284 Resp: 114946

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 39.9 | 31.3 | 46.9 |
| 249 | 34.5 | 27.2 | 40.8 |

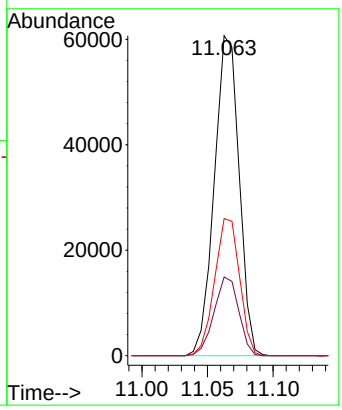





#69
Atrazine
Concen: 38.753 ng
RT: 11.063 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:200 Resp: 7967

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 24.6 | 6.0 | 46.0 |
| 215 | 42.8 | 26.1 | 66.1 |




**Instrument :**
BNA_F
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SSTDCCC040

**Manual Integrations**
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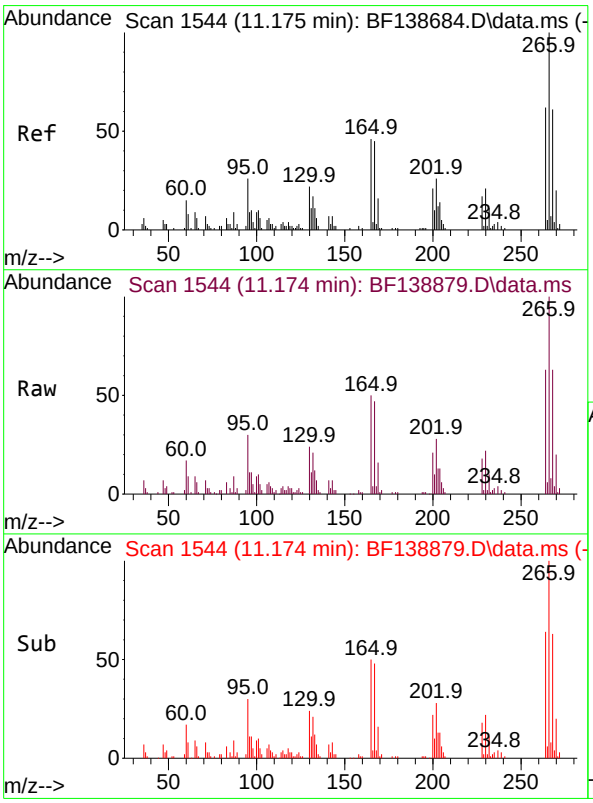
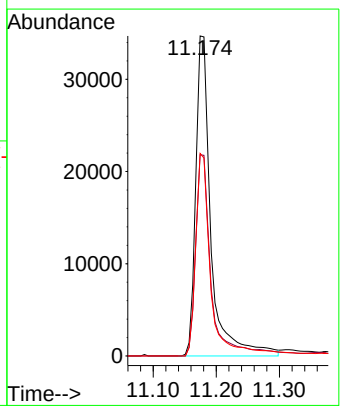
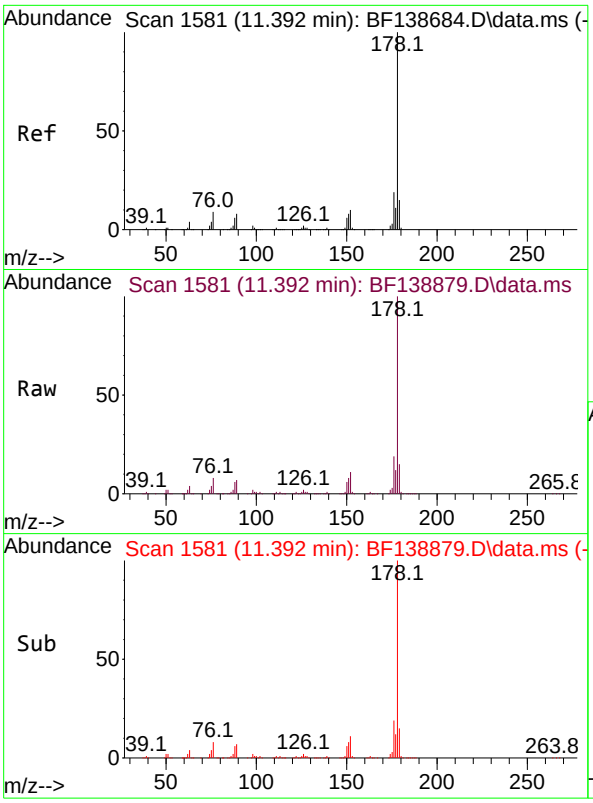



#70
Pentachlorophenol
Concen: 45.355 ng
RT: 11.174 min Scan# 1544
Delta R.T. -0.001 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:266 Resp: 58263

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 268 | 62.9 | 49.2 | 73.8 |
| 264 | 63.3 | 49.8 | 74.6 |

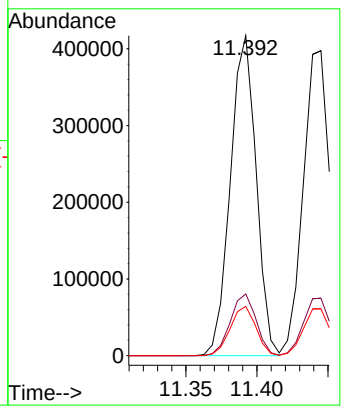





#71
Phenanthrene
Concen: 40.124 ng
RT: 11.392 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:178 Resp: 52671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.3 | 15.4 | 23.0 |
| 179 | 15.4 | 12.2 | 18.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

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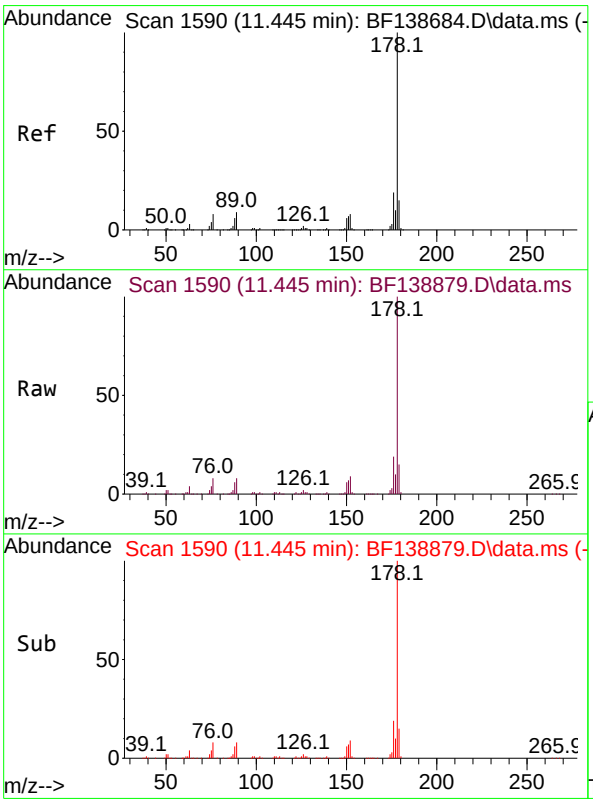
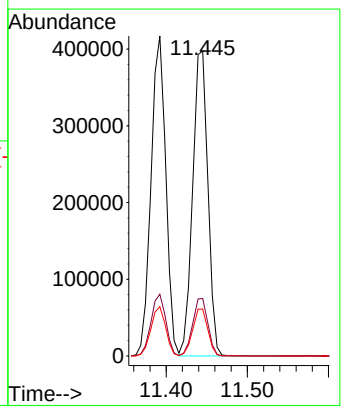
Supervised By :mohammad ahmed 08/12/2024

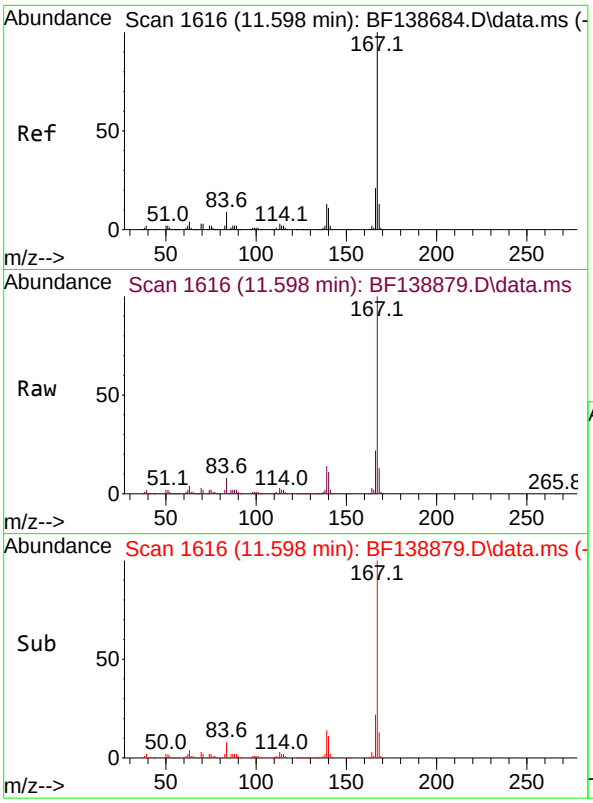



#72
Anthracene
Concen: 40.206 ng
RT: 11.445 min Scan# 1590
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:178 Resp: 519957

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.8 | 14.9 | 22.3 |
| 179 | 15.4 | 12.4 | 18.6 |

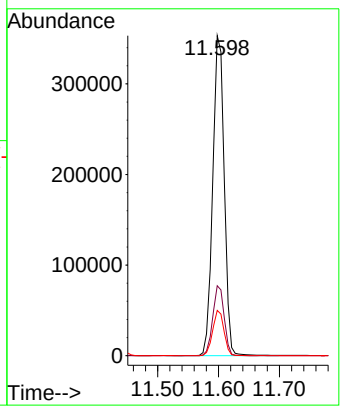





#73
Carbazole
Concen: 41.459 ng
RT: 11.598 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:167 Resp: 46256

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 21.8 | 17.2 | 25.8 |
| 139 | 14.1 | 10.6 | 16.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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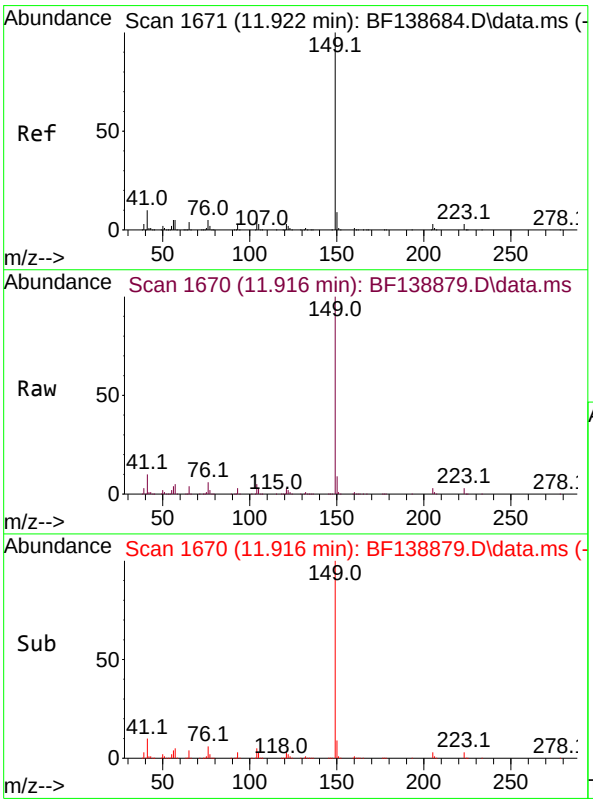
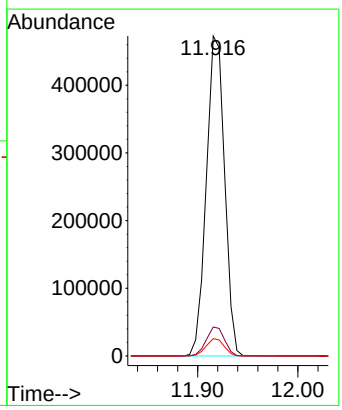
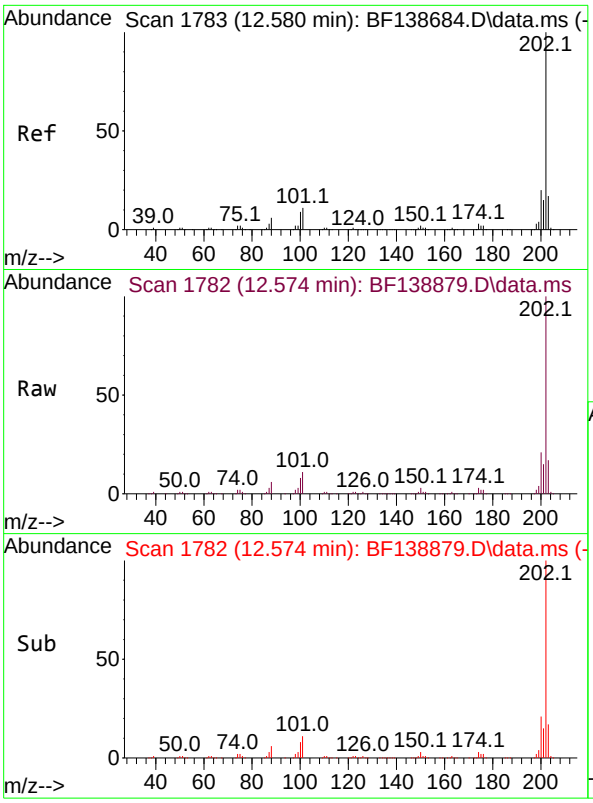



#74
Di-n-butylphthalate
Concen: 47.835 ng
RT: 11.916 min Scan# 1670
Delta R.T. -0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:149 Resp: 599976

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 9.0 | 7.4 | 11.0 |
| 104 | 5.4 | 4.1 | 6.1 |

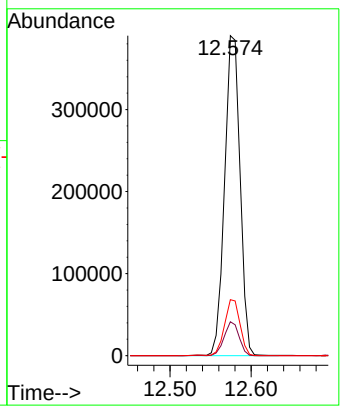





#75
Fluoranthene
Concen: 42.213 ng
RT: 12.574 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:202 Resp: 51733

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 10.6 | 0.0 | 31.2 |
| 203 | 17.5 | 0.0 | 37.3 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

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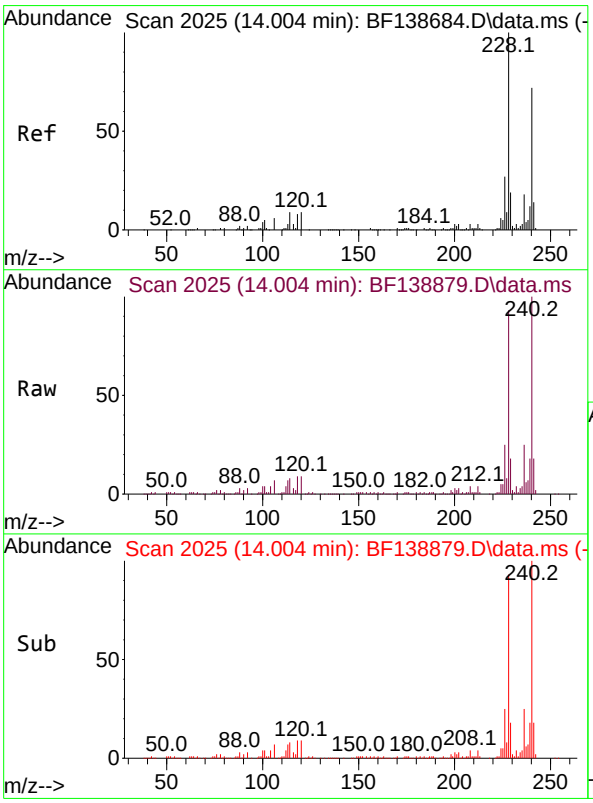
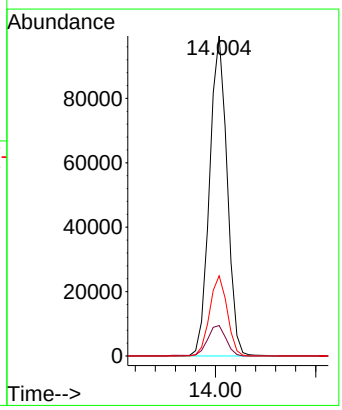
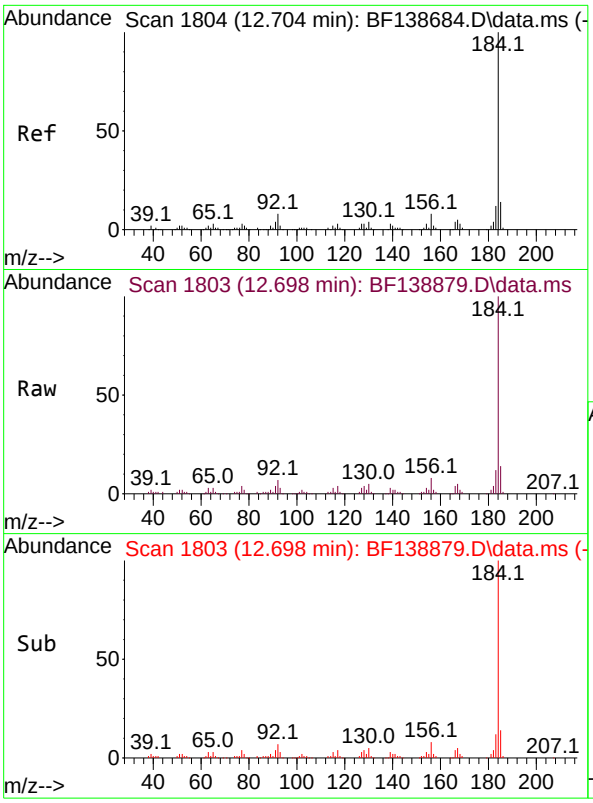



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.004 min Scan# 2025
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:240 Resp: 120643

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 9.5 | 10.2 | 15.4# |
| 236 | 25.1 | 19.8 | 29.8 |

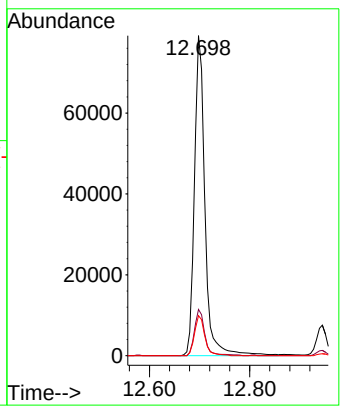





#77
Benzidine
Concen: 39.838 ng
RT: 12.698 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:184 Resp: 11495

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 185 | 14.4 | 11.1 | 16.7 |
| 183 | 12.5 | 9.6 | 14.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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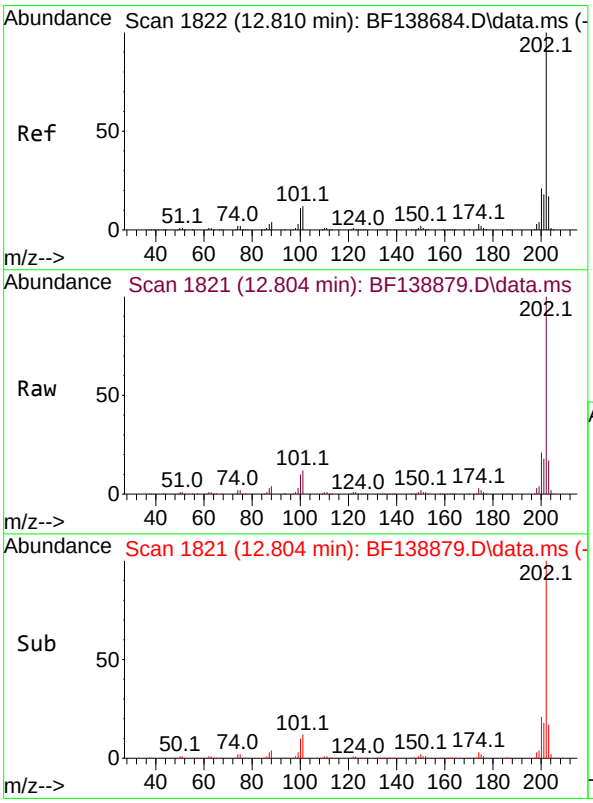
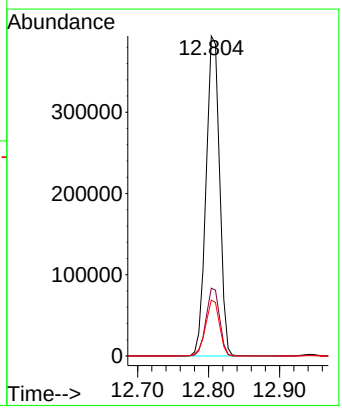
Supervised By :mohammad ahmed 08/12/2024

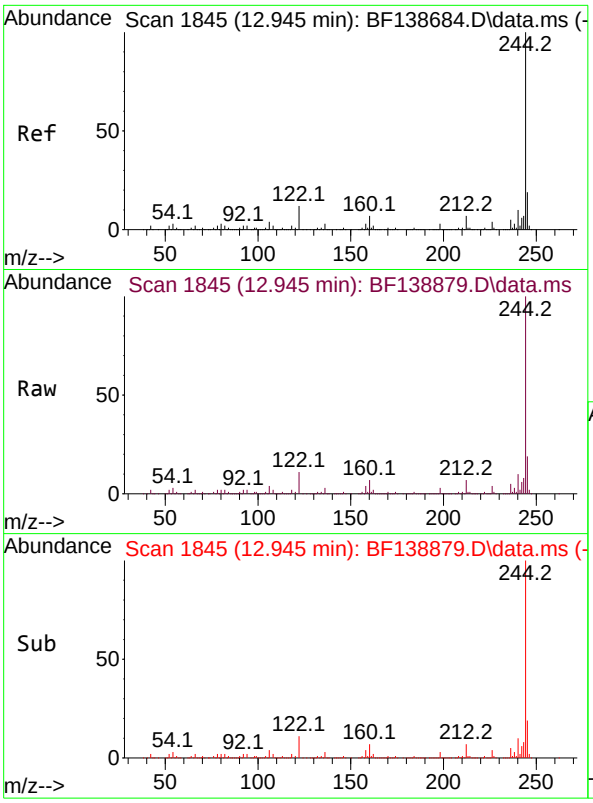



#78
Pyrene
Concen: 45.976 ng
RT: 12.804 min Scan# 1821
Delta R.T. -0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:202 Resp: 522241

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.2 | 16.8 | 25.2 |
| 203 | 17.5 | 13.8 | 20.6 |

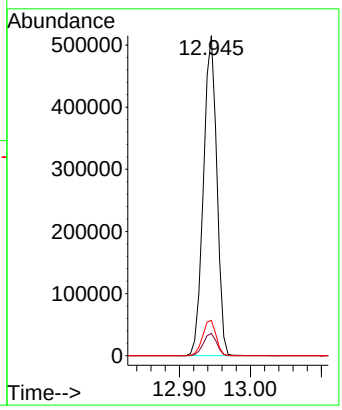





#79
Terphenyl-d14
Concen: 93.624 ng
RT: 12.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:244 Resp: 67463

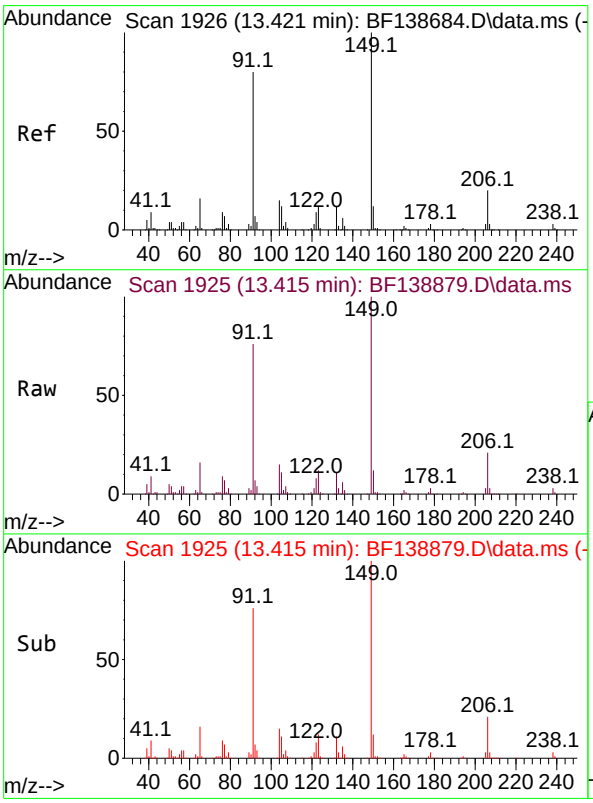
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.0 | 5.4 | 8.2 |
| 122 | 11.0 | 9.6 | 14.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations APPROVED**

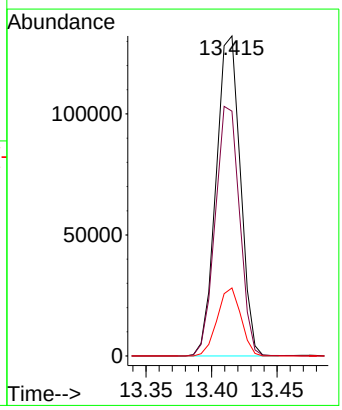
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

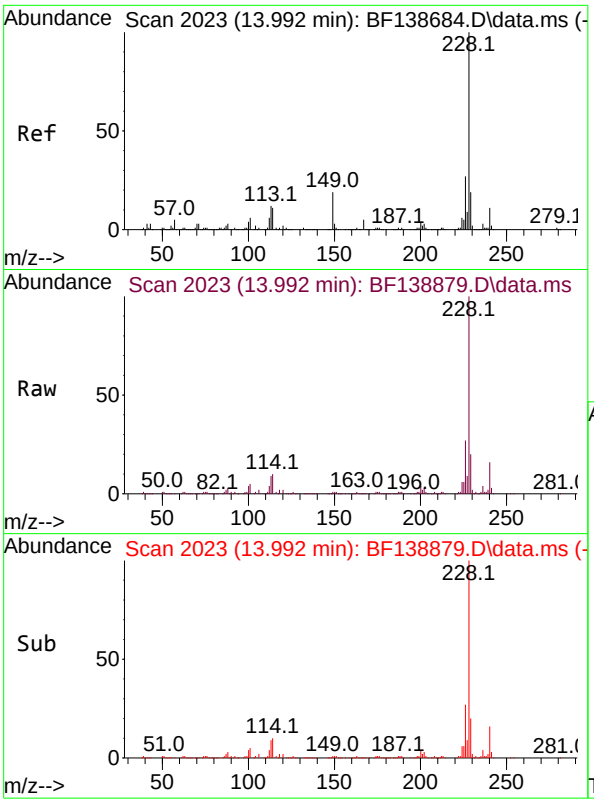



#80
Butylbenzylphthalate
Concen: 46.724 ng
RT: 13.415 min Scan# 1925
Delta R.T. -0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:149 Resp: 169955

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 91 | 76.5 | 63.7 | 95.5 |
| 206 | 21.3 | 16.2 | 24.2 |






#81
Benzo(a)anthracene
Concen: 39.294 ng
RT: 13.992 min Scan# 2(
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:228 Resp: 32644

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 26.9 | 22.1 | 33.1 |
| 229 | 19.8 | 15.4 | 23.0 |

**Instrument :**
BNA_F
**ClientSampleId :**
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**Manual Integrations**
**APPROVED**

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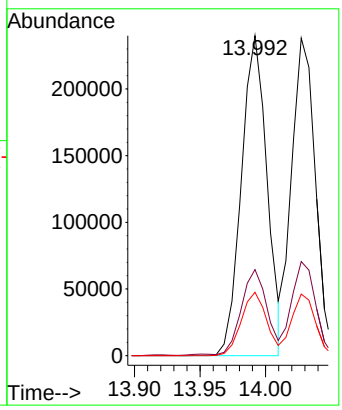
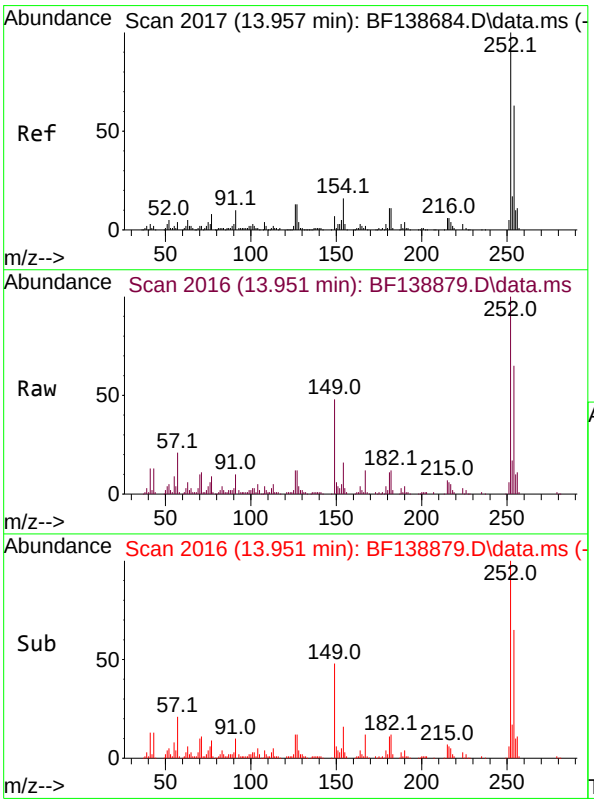
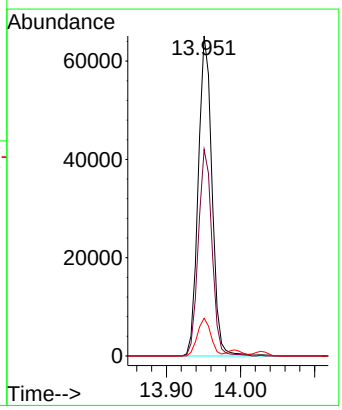


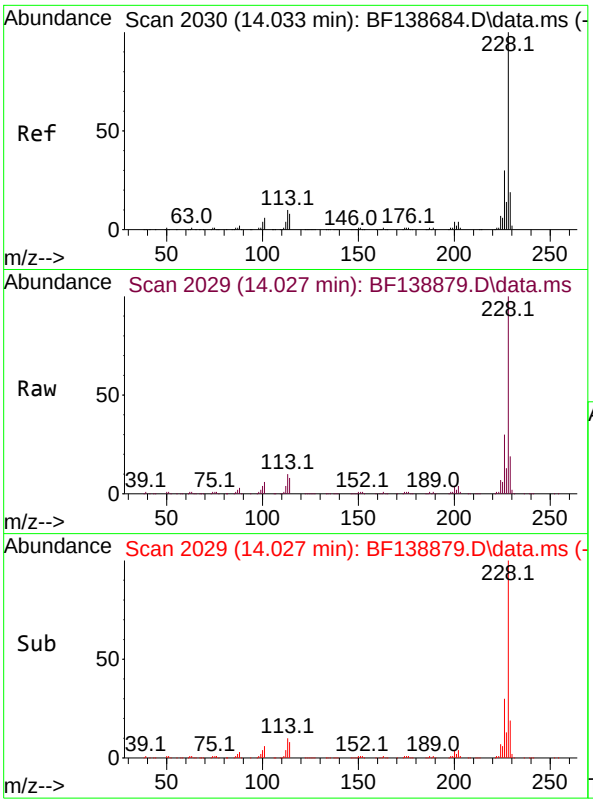




#82
3,3'-Dichlorobenzidine
Concen: 39.408 ng
RT: 13.951 min Scan# 2016
Delta R.T. -0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:252 Resp: 83780

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 64.6 | 50.8 | 76.2 |
| 126 | 11.8 | 10.2 | 15.2 |

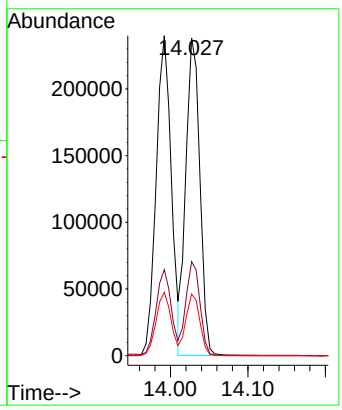





#83
Chrysene
Concen: 39.995 ng
RT: 14.027 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:228 Resp: 29977

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.6 | 23.7 | 35.5 |
| 229 | 19.4 | 15.0 | 22.6 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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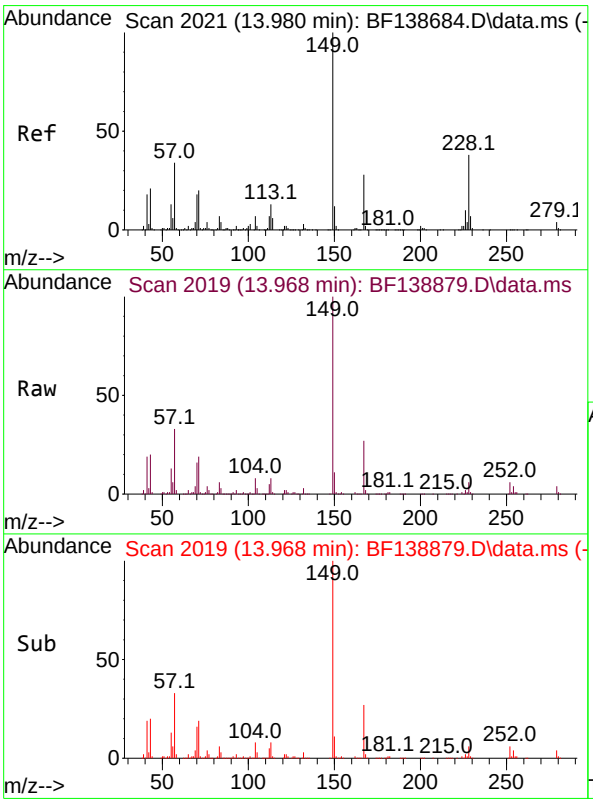
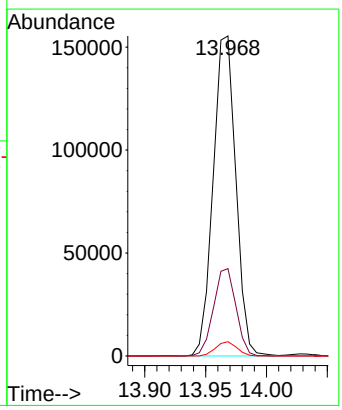
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

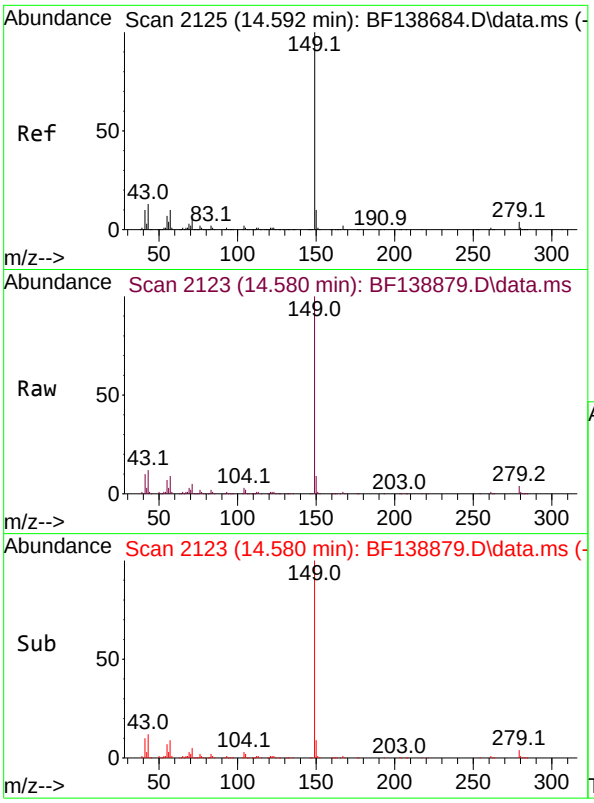



#84
Bis(2-ethylhexyl)phthalate
Concen: 37.893 ng
RT: 13.968 min Scan# 2019
Delta R.T. -0.012 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:149 Resp: 201833

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 27.3 | 22.2 | 33.4 |
| 279 | 4.5 | 3.4 | 5.0 |

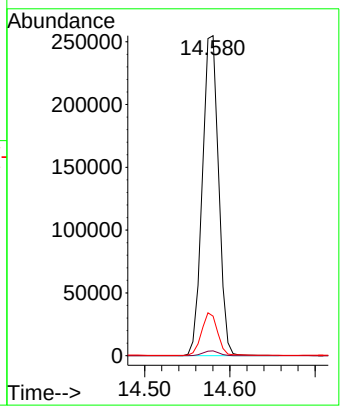





#85
Di-n-octyl phthalate
Concen: 34.265 ng
RT: 14.580 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:149 Resp: 33767

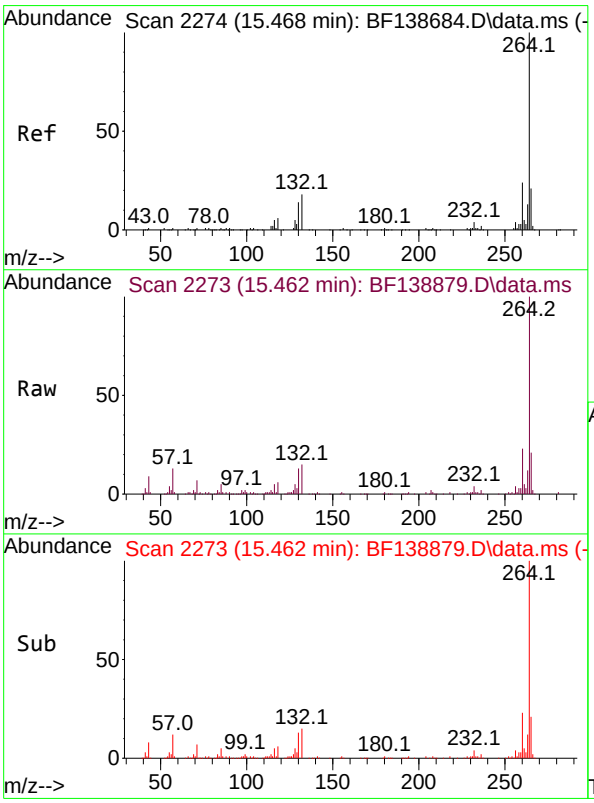
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 1.5 | 1.4 | 2.0 |
| 43 | 13.1 | 10.4 | 15.6 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations APPROVED**

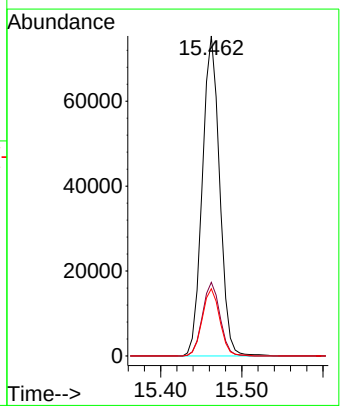
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

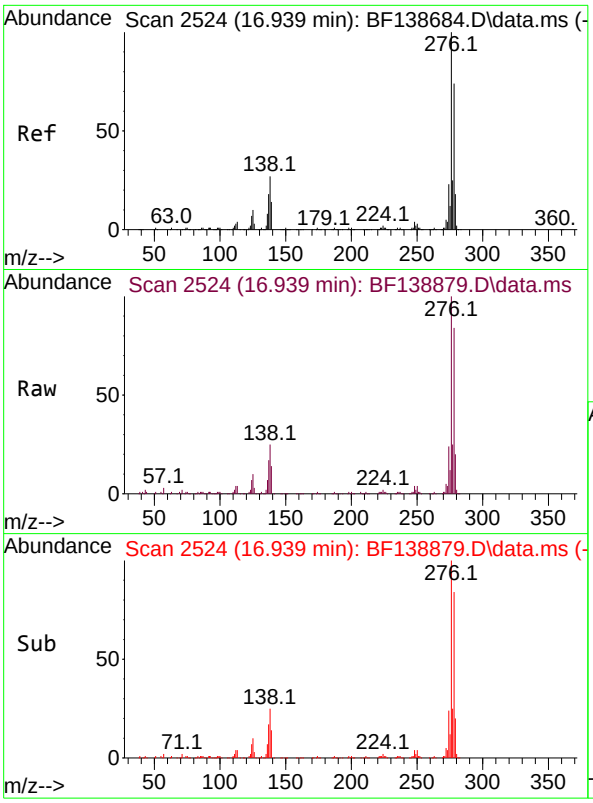



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.462 min Scan# 2273
Delta R.T. -0.006 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:264 Resp: 111360

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.0 | 19.0 | 28.6 |
| 265 | 21.0 | 17.0 | 25.6 |

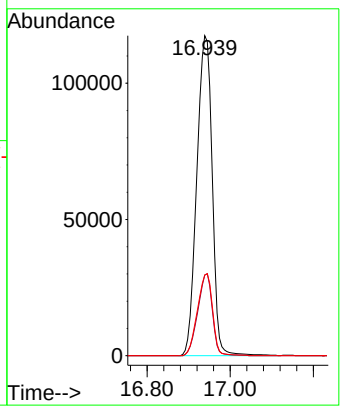





#87
Indeno(1,2,3-cd)pyrene
Concen: 37.875 ng
RT: 16.939 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:276 Resp: 30226

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 24.1 | 21.8 | 32.8 |
| 277 | 25.2 | 20.6 | 30.8 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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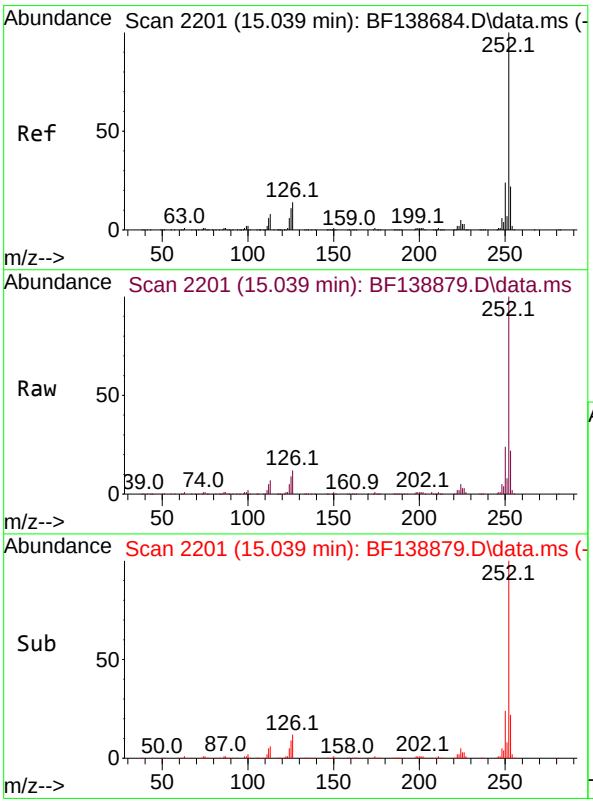
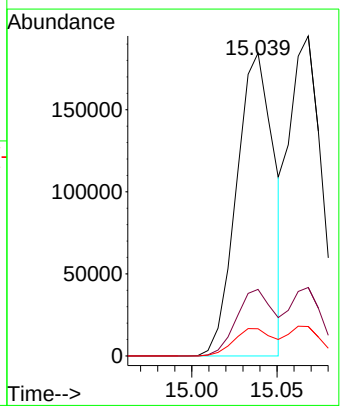
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

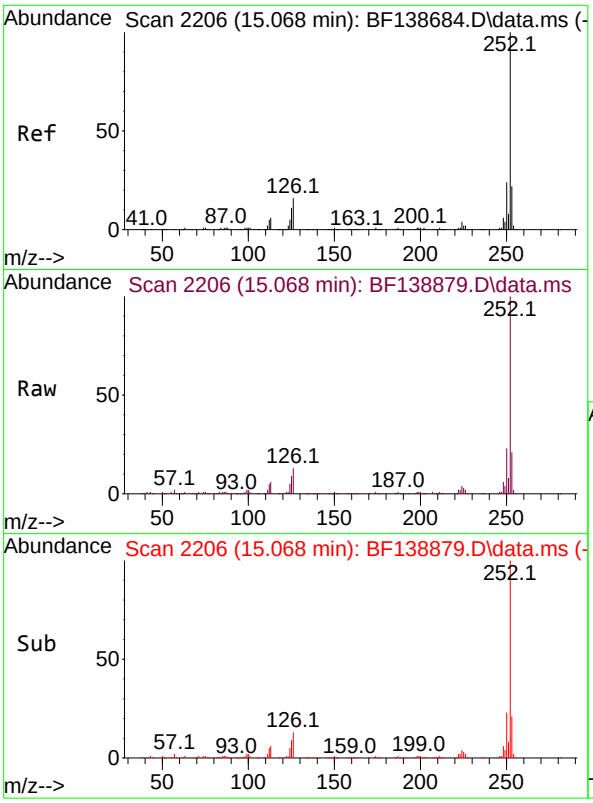



#88
Benzo(b)fluoranthene
Concen: 40.751 ng
RT: 15.039 min Scan# 2201
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:252 Resp: 281311

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.0 | 17.5 | 26.3 |
| 125 | 9.0 | 8.9 | 13.3 |

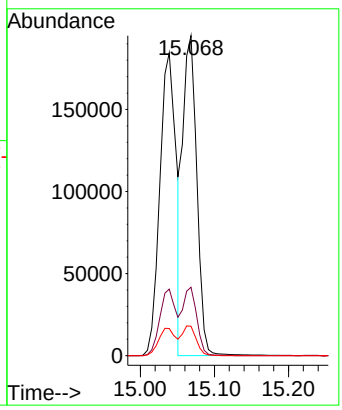





#89
Benzo(k)fluoranthene
Concen: 43.068 ng
RT: 15.068 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:252 Resp: 25741

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.4 | 17.4 | 26.0 |
| 125 | 9.2 | 8.6 | 13.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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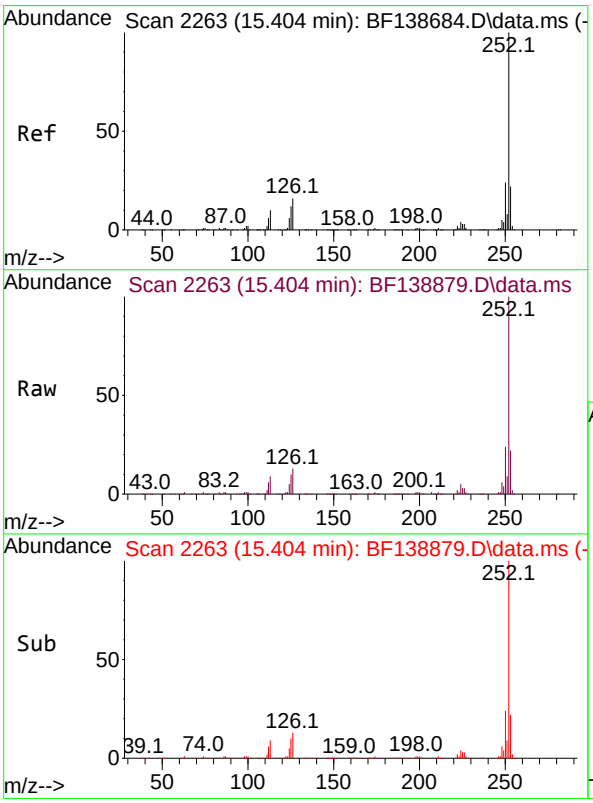
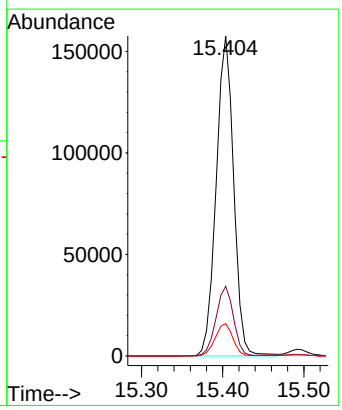
Supervised By :mohammad ahmed 08/12/2024

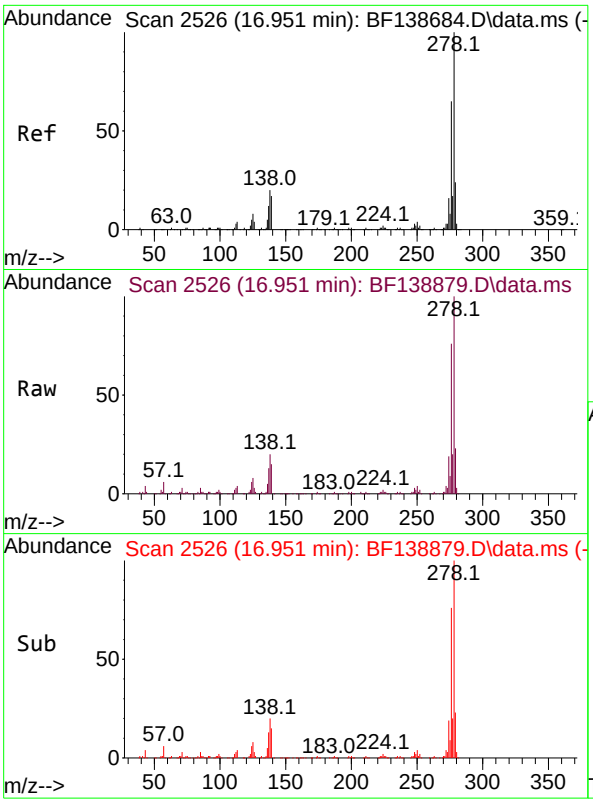



#90
Benzo(a)pyrene
Concen: 40.615 ng
RT: 15.404 min Scan# 2263
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:252 Resp: 235833

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.7 | 17.3 | 25.9 |
| 125 | 10.1 | 9.5 | 14.3 |

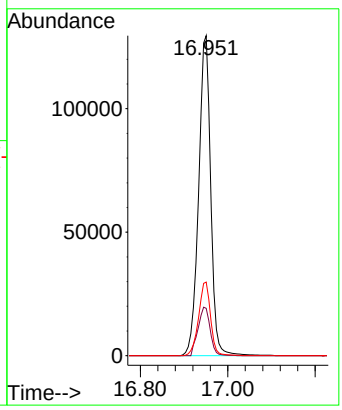





#91
Dibenzo(a,h)anthracene
Concen: 38.071 ng
RT: 16.951 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:278 Resp: 24940

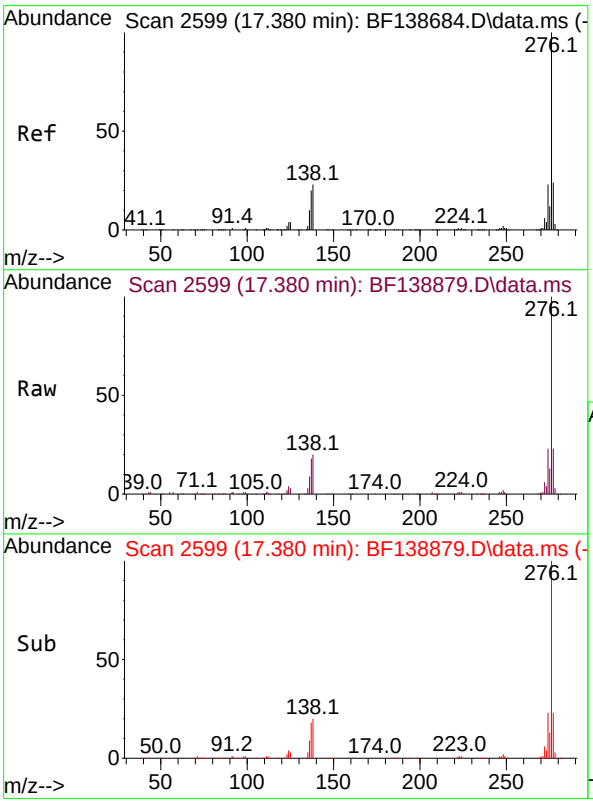
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 14.8 | 14.0 | 21.0 |
| 279 | 23.0 | 19.0 | 28.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations APPROVED**

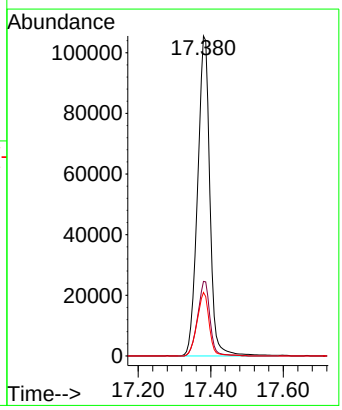
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024




#92
Benzo(g,h,i)perylene
Concen: 36.405 ng
RT: 17.380 min Scan# 2599
Delta R.T. -0.000 min
Lab File: BF138879.D
Acq: 09 Aug 2024 09:48

Tgt Ion:276 Resp: 247476

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 23.3 | 19.0 | 28.4 |
| 138 | 19.8 | 18.5 | 27.7 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080924\
Data File : BF138879.D
Acq On : 09 Aug 2024 09:48
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_F
**LabSampleId :**
SSTDCCC040

Quant Time: Aug 09 10:52:44 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 90 | 0.00 |
| 2 | | 1,4-Dioxane | 0.567 | 0.467 | 17.6 | 73 | 0.02 |
| 3 | | Pyridine | 1.374 | 1.192 | 13.2 | 78 | 0.02 |
| 4 | | n-Nitrosodimethylamine | 0.818 | 0.850 | -3.9 | 94 | 0.05 |
| 5 | S | 2-Fluorophenol | 1.296 | 1.253 | 3.3 | 89 | 0.00 |
| 6 | | Aniline | 1.551 | 1.495 | 3.6 | 88 | 0.00 |
| 7 | S | Phenol-d6 | 1.740 | 1.688 | 3.0 | 90 | 0.00 |
| 8 | | 2-Chlorophenol | 1.363 | 1.362 | 0.1 | 93 | 0.00 |
| 9 | | Benzaldehyde | 1.043 | 0.831 | 20.3 | 83 | 0.00 |
| 10 | C | Phenol | 1.832 | 1.767 | 3.5 | 90 | 0.01 |
| 11 | | bis(2-Chloroethyl)ether | 1.409 | 1.319 | 6.4 | 87 | 0.00 |
| 12 | | 1,3-Dichlorobenzene | 1.526 | 1.500 | 1.7 | 92 | 0.00 |
| 13 | C | 1,4-Dichlorobenzene | 1.540 | 1.516 | 1.6 | 91 | 0.00 |
| 14 | | 1,2-Dichlorobenzene | 1.439 | 1.466 | -1.9 | 94 | 0.00 |
| 15 | | Benzyl Alcohol | 1.254 | 1.333 | -6.3 | 98 | 0.00 |
| 16 | | 2,2'-oxybis(1-Chloropropane | 2.426 | 2.133 | 12.1 | 82 | 0.00 |
| 17 | | 2-Methylphenol | 1.126 | 1.087 | 3.5 | 89 | 0.00 |
| 18 | | Hexachloroethane | 0.580 | 0.586 | -1.0 | 93 | 0.00 |
| 19 | P | n-Nitroso-di-n-propylamine | 1.051 | 1.087 | -3.4 | 99 | 0.00 |
| 20 | | 3+4-Methylphenols | 1.444 | 1.469 | -1.7 | 97 | 0.00 |
| 21 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 94 | 0.00 |
| 22 | | Acetophenone | 0.490 | 0.500 | -2.0 | 98 | 0.00 |
| 23 | S | Nitrobenzene-d5 | 0.409 | 0.415 | -1.5 | 96 | 0.00 |
| 24 | | Nitrobenzene | 0.416 | 0.419 | -0.7 | 95 | 0.00 |
| 25 | | Isophorone | 0.699 | 0.689 | 1.4 | 95 | 0.00 |
| 26 | C | 2-Nitrophenol | 0.179 | 0.185 | -3.4 | 95 | 0.00 |
| 27 | | 2,4-Dimethylphenol | 0.214 | 0.210 | 1.9 | 93 | 0.00 |
| 28 | | bis(2-Chloroethoxy)methane | 0.425 | 0.413 | 2.8 | 93 | 0.00 |
| 29 | C | 2,4-Dichlorophenol | 0.275 | 0.284 | -3.3 | 97 | 0.00 |
| 30 | | 1,2,4-Trichlorobenzene | 0.318 | 0.318 | 0.0 | 95 | 0.00 |
| 31 | | Naphthalene | 1.053 | 1.044 | 0.9 | 94 | 0.00 |
| 32 | | Benzoic acid | 0.168 | 0.149 | 11.3 | 85 | 0.04 |
| 33 | | 4-Chloroaniline | 0.353 | 0.328 | 7.1 | 89 | 0.00 |
| 34 | C | Hexachlorobutadiene | 0.192 | 0.201 | -4.7 | 100 | 0.00 |
| 35 | | Caprolactam | 0.082 | 0.086 | -4.9 | 104 | 0.03 |
| 36 | C | 4-Chloro-3-methylphenol | 0.315 | 0.330 | -4.8 | 102 | 0.01 |
| 37 | | 2-Methylnaphthalene | 0.665 | 0.685 | -3.0 | 100 | 0.00 |
| 38 | | 1-Methylnaphthalene | 0.652 | 0.663 | -1.7 | 98 | 0.00 |
| 39 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 103 | 0.00 |
| 40 | | 1,2,4,5-Tetrachlorobenzene | 0.556 | 0.558 | -0.4 | 104 | 0.00 |
| 41 | P | Hexachlorocyclopentadiene | 0.120 | 0.169 | -40.8# | 137 | 0.00 |
| 42 | S | 2,4,6-Tribromophenol | 0.164 | 0.175 | -6.7 | 113 | 0.00 |
| 43 | C | 2,4,6-Trichlorophenol | 0.339 | 0.331 | 2.4 | 101 | 0.00 |
| 44 | | 2,4,5-Trichlorophenol | 0.370 | 0.367 | 0.8 | 103 | 0.00 |
| 45 | S | 2-Fluorobiphenyl | 1.331 | 1.366 | -2.6 | 108 | 0.00 |
| 46 | | 1,1'-Biphenyl | 1.566 | 1.528 | 2.4 | 102 | 0.00 |
| 47 | | 2-Chloronaphthalene | 1.165 | 1.138 | 2.3 | 102 | 0.00 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080924\
Data File : BF138879.D
Acq On : 09 Aug 2024 09:48
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_F
**LabSampleId :**
SSTDCCC040

Quant Time: Aug 09 10:52:44 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 48 | | 2-Nitroaniline | 0.395 | 0.398 | -0.8 | 105 | 0.00 |
| 49 | | Acenaphthylene | 1.652 | 1.623 | 1.8 | 102 | 0.00 |
| 50 | | Dimethylphthalate | 1.279 | 1.314 | -2.7 | 110 | 0.00 |
| 51 | | 2,6-Dinitrotoluene | 0.289 | 0.297 | -2.8 | 106 | 0.00 |
| 52 | C | Acenaphthene | 1.111 | 1.081 | 2.7 | 103 | 0.00 |
| 53 | | 3-Nitroaniline | 0.298 | 0.297 | 0.3 | 106 | 0.00 |
| 54 | P | 2,4-Dinitrophenol | 0.133 | 0.150 | -12.8 | 121 | 0.00 |
| 55 | | Dibenzofuran | 1.568 | 1.578 | -0.6 | 107 | 0.00 |
| 56 | P | 4-Nitrophenol | 0.179 | 0.191 | -6.7 | 112 | 0.02 |
| 57 | | 2,4-Dinitrotoluene | 0.368 | 0.397 | -7.9 | 113 | 0.01 |
| 58 | | Fluorene | 1.249 | 1.298 | -3.9 | 111 | 0.00 |
| 59 | | 2,3,4,6-Tetrachlorophenol | 0.283 | 0.290 | -2.5 | 109 | 0.00 |
| 60 | | Diethylphthalate | 1.213 | 1.332 | -9.8 | 118 | 0.00 |
| 61 | | 4-Chlorophenyl-phenylether | 0.614 | 0.641 | -4.4 | 112 | 0.00 |
| 62 | | 4-Nitroaniline | 0.284 | 0.291 | -2.5 | 110 | 0.01 |
| 63 | | Azobenzene | 1.345 | 1.364 | -1.4 | 108 | 0.00 |
| 64 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 112 | 0.00 |
| 65 | | 4,6-Dinitro-2-methylphenol | 0.122 | 0.127 | -4.1 | 114 | 0.01 |
| 66 | c | n-Nitrosodiphenylamine | 0.625 | 0.630 | -0.8 | 112 | 0.00 |
| 67 | | 4-Bromophenyl-phenylether | 0.217 | 0.218 | -0.5 | 113 | 0.00 |
| 68 | | Hexachlorobenzene | 0.224 | 0.225 | -0.4 | 115 | 0.00 |
| 69 | | Atrazine | 0.161 | 0.156 | 3.1 | 108 | 0.00 |
| 70 | C | Pentachlorophenol | 0.101 | 0.114 | -12.9 | 125 | 0.00 |
| 71 | | Phenanthrene | 1.030 | 1.033 | -0.3 | 113 | 0.00 |
| 72 | | Anthracene | 1.015 | 1.020 | -0.5 | 114 | 0.00 |
| 73 | | Carbazole | 0.875 | 0.907 | -3.7 | 117 | 0.00 |
| 74 | | Di-n-butylphthalate | 0.984 | 1.177 | -19.6 | 133 | 0.00 |
| 75 | C | Fluoranthene | 0.961 | 1.015 | -5.6 | 118 | 0.00 |
| 76 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 96 | 0.00 |
| 77 | | Benzidine | 0.478 | 0.476 | 0.4 | 85 | 0.00 |
| 78 | | Pyrene | 1.883 | 2.164 | -14.9 | 119 | 0.00 |
| 79 | S | Terphenyl-d14 | 1.195 | 1.398 | -17.0 | 121 | 0.00 |
| 80 | | Butylbenzylphthalate | 0.603 | 0.704 | -16.7 | 108 | 0.00 |
| 81 | | Benzo(a)anthracene | 1.377 | 1.353 | 1.7 | 93 | 0.00 |
| 82 | | 3,3'-Dichlorobenzidine | 0.352 | 0.347 | 1.4 | 92 | 0.00 |
| 83 | | Chrysene | 1.243 | 1.242 | 0.1 | 97 | 0.00 |
| 84 | | Bis(2-ethylhexyl)phthalate | 0.883 | 0.836 | 5.3 | 85 | -0.01 |
| 85 | c | Di-n-octyl phthalate | 1.634 | 1.399 | 14.4 | 77 | -0.01 |
| 86 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 73 | 0.00 |
| 87 | | Indeno(1,2,3-cd)pyrene | 1.433 | 1.357 | 5.3 | 72 | 0.00 |
| 88 | | Benzo(b)fluoranthene | 1.240 | 1.263 | -1.9 | 76 | 0.00 |
| 89 | | Benzo(k)fluoranthene | 1.073 | 1.156 | -7.7 | 85 | 0.00 |
| 90 | C | Benzo(a)pyrene | 1.043 | 1.059 | -1.5 | 76 | 0.00 |
| 91 | | Dibenzo(a,h)anthracene | 1.177 | 1.120 | 4.8 | 73 | 0.00 |
| 92 | | Benzo(g,h,i)perylene | 1.221 | 1.111 | 9.0 | 68 | 0.00 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080924\
Data File : BF138879.D
Acq On : 09 Aug 2024 09:48
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_F
**LabSampleId :**
SSTDCCC040

Quant Time: Aug 09 10:52:44 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080924\
Data File : BF138879.D
Acq On : 09 Aug 2024 09:48
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_F
**LabSampleId :**
SSTDCCC040

Quant Time: Aug 09 10:52:44 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 1,4-Dichlorobenzene-d4 | 20.000 | 20.000 | 0.0 | 90 | 0.00 |
| 2 | | 1,4-Dioxane | 40.000 | 32.959 | 17.6 | 73 | 0.02 |
| 3 | | Pyridine | 40.000 | 34.698 | 13.3 | 78 | 0.02 |
| 4 | | n-Nitrosodimethylamine | 40.000 | 41.529 | -3.8 | 94 | 0.05 |
| 5 | S | 2-Fluorophenol | 80.000 | 77.341 | 3.3 | 89 | 0.00 |
| 6 | | Aniline | 40.000 | 38.553 | 3.6 | 88 | 0.00 |
| 7 | S | Phenol-d6 | 80.000 | 77.642 | 2.9 | 90 | 0.00 |
| 8 | | 2-Chlorophenol | 40.000 | 39.975 | 0.1 | 93 | 0.00 |
| 9 | | Benzaldehyde | 40.000 | 31.868 | 20.3 | 83 | 0.00 |
| 10 | C | Phenol | 40.000 | 38.591 | 3.5 | 90 | 0.01 |
| 11 | | bis(2-Chloroethyl)ether | 40.000 | 37.428 | 6.4 | 87 | 0.00 |
| 12 | | 1,3-Dichlorobenzene | 40.000 | 39.328 | 1.7 | 92 | 0.00 |
| 13 | C | 1,4-Dichlorobenzene | 40.000 | 39.385 | 1.5 | 91 | 0.00 |
| 14 | | 1,2-Dichlorobenzene | 40.000 | 40.758 | -1.9 | 94 | 0.00 |
| 15 | | Benzyl Alcohol | 40.000 | 42.513 | -6.3 | 98 | 0.00 |
| 16 | | 2,2'-oxybis(1-Chloropropane | 40.000 | 35.181 | 12.0 | 82 | 0.00 |
| 17 | | 2-Methylphenol | 40.000 | 38.644 | 3.4 | 89 | 0.00 |
| 18 | | Hexachloroethane | 40.000 | 40.424 | -1.1 | 93 | 0.00 |
| 19 | P | n-Nitroso-di-n-propylamine | 40.000 | 41.371 | -3.4 | 99 | 0.00 |
| 20 | | 3+4-Methylphenols | 40.000 | 40.691 | -1.7 | 97 | 0.00 |
| 21 | I | Naphthalene-d8 | 20.000 | 20.000 | 0.0 | 94 | 0.00 |
| 22 | | Acetophenone | 40.000 | 40.881 | -2.2 | 98 | 0.00 |
| 23 | S | Nitrobenzene-d5 | 80.000 | 81.125 | -1.4 | 96 | 0.00 |
| 24 | | Nitrobenzene | 40.000 | 40.226 | -0.6 | 95 | 0.00 |
| 25 | | Isophorone | 40.000 | 39.454 | 1.4 | 95 | 0.00 |
| 26 | C | 2-Nitrophenol | 40.000 | 41.211 | -3.0 | 95 | 0.00 |
| 27 | | 2,4-Dimethylphenol | 40.000 | 39.127 | 2.2 | 93 | 0.00 |
| 28 | | bis(2-Chloroethoxy)methane | 40.000 | 38.796 | 3.0 | 93 | 0.00 |
| 29 | C | 2,4-Dichlorophenol | 40.000 | 41.240 | -3.1 | 97 | 0.00 |
| 30 | | 1,2,4-Trichlorobenzene | 40.000 | 40.076 | -0.2 | 95 | 0.00 |
| 31 | | Naphthalene | 40.000 | 39.667 | 0.8 | 94 | 0.00 |
| 32 | | Benzoic acid | 40.000 | 35.363 | 11.6 | 85 | 0.04 |
| 33 | | 4-Chloroaniline | 40.000 | 37.080 | 7.3 | 89 | 0.00 |
| 34 | C | Hexachlorobutadiene | 40.000 | 41.748 | -4.4 | 100 | 0.00 |
| 35 | | Caprolactam | 40.000 | 42.020 | -5.1 | 104 | 0.03 |
| 36 | C | 4-Chloro-3-methylphenol | 40.000 | 41.980 | -4.9 | 102 | 0.01 |
| 37 | | 2-Methylnaphthalene | 40.000 | 41.211 | -3.0 | 100 | 0.00 |
| 38 | | 1-Methylnaphthalene | 40.000 | 40.707 | -1.8 | 98 | 0.00 |
| 39 | I | Acenaphthene-d10 | 20.000 | 20.000 | 0.0 | 103 | 0.00 |
| 40 | | 1,2,4,5-Tetrachlorobenzene | 40.000 | 40.151 | -0.4 | 104 | 0.00 |
| 41 | P | Hexachlorocyclopentadiene | 40.000 | 48.979 | -22.4 | 137 | 0.00 |
| 42 | S | 2,4,6-Tribromophenol | 80.000 | 85.652 | -7.1 | 113 | 0.00 |
| 43 | C | 2,4,6-Trichlorophenol | 40.000 | 39.044 | 2.4 | 101 | 0.00 |
| 44 | | 2,4,5-Trichlorophenol | 40.000 | 39.672 | 0.8 | 103 | 0.00 |
| 45 | S | 2-Fluorobiphenyl | 80.000 | 82.084 | -2.6 | 108 | 0.00 |
| 46 | | 1,1'-Biphenyl | 40.000 | 39.023 | 2.4 | 102 | 0.00 |
| 47 | | 2-Chloronaphthalene | 40.000 | 39.064 | 2.3 | 102 | 0.00 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080924\
Data File : BF138879.D
Acq On : 09 Aug 2024 09:48
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_F
**LabSampleId :**
SSTDCCC040

Quant Time: Aug 09 10:52:44 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 48 | | 2-Nitroaniline | 40.000 | 40.306 | -0.8 | 105 | 0.00 |
| 49 | | Acenaphthylene | 40.000 | 39.295 | 1.8 | 102 | 0.00 |
| 50 | | Dimethylphthalate | 40.000 | 41.104 | -2.8 | 110 | 0.00 |
| 51 | | 2,6-Dinitrotoluene | 40.000 | 41.164 | -2.9 | 106 | 0.00 |
| 52 | C | Acenaphthene | 40.000 | 38.933 | 2.7 | 103 | 0.00 |
| 53 | | 3-Nitroaniline | 40.000 | 39.833 | 0.4 | 106 | 0.00 |
| 54 | P | 2,4-Dinitrophenol | 40.000 | 45.240 | -13.1 | 121 | 0.00 |
| 55 | | Dibenzofuran | 40.000 | 40.270 | -0.7 | 107 | 0.00 |
| 56 | P | 4-Nitrophenol | 40.000 | 42.666 | -6.7 | 112 | 0.02 |
| 57 | | 2,4-Dinitrotoluene | 40.000 | 43.181 | -8.0 | 113 | 0.01 |
| 58 | | Fluorene | 40.000 | 41.585 | -4.0 | 111 | 0.00 |
| 59 | | 2,3,4,6-Tetrachlorophenol | 40.000 | 41.037 | -2.6 | 109 | 0.00 |
| 60 | | Diethylphthalate | 40.000 | 43.927 | -9.8 | 118 | 0.00 |
| 61 | | 4-Chlorophenyl-phenylether | 40.000 | 41.737 | -4.3 | 112 | 0.00 |
| 62 | | 4-Nitroaniline | 40.000 | 41.114 | -2.8 | 110 | 0.01 |
| 63 | | Azobenzene | 40.000 | 40.571 | -1.4 | 108 | 0.00 |
| 64 | I | Phenanthrene-d10 | 20.000 | 20.000 | 0.0 | 112 | 0.00 |
| 65 | | 4,6-Dinitro-2-methylphenol | 40.000 | 41.494 | -3.7 | 114 | 0.01 |
| 66 | c | n-Nitrosodiphenylamine | 40.000 | 40.327 | -0.8 | 112 | 0.00 |
| 67 | | 4-Bromophenyl-phenylether | 40.000 | 40.221 | -0.6 | 113 | 0.00 |
| 68 | | Hexachlorobenzene | 40.000 | 40.333 | -0.8 | 115 | 0.00 |
| 69 | | Atrazine | 40.000 | 38.753 | 3.1 | 108 | 0.00 |
| 70 | C | Pentachlorophenol | 40.000 | 45.355 | -13.4 | 125 | 0.00 |
| 71 | | Phenanthrene | 40.000 | 40.124 | -0.3 | 113 | 0.00 |
| 72 | | Anthracene | 40.000 | 40.206 | -0.5 | 114 | 0.00 |
| 73 | | Carbazole | 40.000 | 41.459 | -3.6 | 117 | 0.00 |
| 74 | | Di-n-butylphthalate | 40.000 | 47.835 | -19.6 | 133 | 0.00 |
| 75 | C | Fluoranthene | 40.000 | 42.213 | -5.5 | 118 | 0.00 |
| 76 | I | Chrysene-d12 | 20.000 | 20.000 | 0.0 | 96 | 0.00 |
| 77 | | Benzidine | 40.000 | 39.838 | 0.4 | 85 | 0.00 |
| 78 | | Pyrene | 40.000 | 45.976 | -14.9 | 119 | 0.00 |
| 79 | S | Terphenyl-d14 | 80.000 | 93.624 | -17.0 | 121 | 0.00 |
| 80 | | Butylbenzylphthalate | 40.000 | 46.724 | -16.8 | 108 | 0.00 |
| 81 | | Benzo(a)anthracene | 40.000 | 39.294 | 1.8 | 93 | 0.00 |
| 82 | | 3,3'-Dichlorobenzidine | 40.000 | 39.408 | 1.5 | 92 | 0.00 |
| 83 | | Chrysene | 40.000 | 39.995 | 0.0 | 97 | 0.00 |
| 84 | | Bis(2-ethylhexyl)phthalate | 40.000 | 37.893 | 5.3 | 85 | -0.01 |
| 85 | c | Di-n-octyl phthalate | 40.000 | 34.265 | 14.3 | 77 | -0.01 |
| 86 | I | Perylene-d12 | 20.000 | 20.000 | 0.0 | 73 | 0.00 |
| 87 | | Indeno(1,2,3-cd)pyrene | 40.000 | 37.875 | 5.3 | 72 | 0.00 |
| 88 | | Benzo(b)fluoranthene | 40.000 | 40.751 | -1.9 | 76 | 0.00 |
| 89 | | Benzo(k)fluoranthene | 40.000 | 43.068 | -7.7 | 85 | 0.00 |
| 90 | C | Benzo(a)pyrene | 40.000 | 40.615 | -1.5 | 76 | 0.00 |
| 91 | | Dibenzo(a,h)anthracene | 40.000 | 38.071 | 4.8 | 73 | 0.00 |
| 92 | | Benzo(g,h,i)perylene | 40.000 | 36.405 | 9.0 | 68 | 0.00 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080924\
Data File : BF138879.D
Acq On : 09 Aug 2024 09:48
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_F
**LabSampleId :**
SSTDCCC040

Quant Time: Aug 09 10:52:44 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: P3457 SAS No.: P3457 SDG No.: P3457

Instrument ID: BNA_F Calibration Date/Time: 08/10/2024 10:41

Lab File ID: BF138901.D Init. Calib. Date(s): 07/30/2024 07/30/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:54 16:29

GC Column: DB-UI ID: 0.18 (mm)

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Pyridine | 1.374 | 1.245 | | -9.4 | |
| 2-Fluorophenol | 1.296 | 1.267 | | -2.2 | |
| Benzaldehyde | 1.043 | 0.916 | | -12.2 | |
| Phenol-d6 | 1.740 | 1.736 | | -0.2 | |
| 2-Methylphenol | 1.126 | 1.130 | | 0.4 | |
| 3+4-Methylphenols | 1.444 | 1.532 | | 6.1 | |
| Nitrobenzene-d5 | 0.409 | 0.425 | | 3.9 | |
| Hexachloroethane | 0.580 | 0.601 | | 3.6 | |
| Nitrobenzene | 0.416 | 0.425 | | 2.2 | |
| Naphthalene | 1.053 | 1.059 | | 0.6 | |
| Hexachlorobutadiene | 0.192 | 0.208 | | 8.3 | 20.0 |
| 2-Methylnaphthalene | 0.665 | 0.691 | | 3.9 | |
| 2,4,6-Trichlorophenol | 0.339 | 0.337 | | -0.6 | 20.0 |
| 2-Fluorobiphenyl | 1.331 | 1.376 | | 3.4 | |
| 2,4,5-Trichlorophenol | 0.370 | 0.377 | | 1.9 | |
| Acenaphthylene | 1.652 | 1.642 | | -0.6 | |
| Acenaphthene | 1.111 | 1.104 | | -0.6 | 20.0 |
| Dibenzofuran | 1.568 | 1.590 | | 1.4 | |
| 2,4-Dinitrotoluene | 0.368 | 0.405 | | 10.1 | |
| Fluorene | 1.249 | 1.309 | | 4.8 | |
| 2,4,6-Tribromophenol | 0.164 | 0.177 | | 7.9 | |
| Hexachlorobenzene | 0.224 | 0.229 | | 2.2 | |
| Pentachlorophenol | 0.101 | 0.121 | | 19.8 | 20.0 |
| Phenanthrene | 1.030 | 1.051 | | 2.0 | |
| Anthracene | 1.015 | 1.029 | | 1.4 | |
| Carbazole | 0.875 | 0.883 | | 0.9 | |
| Di-n-butylphthalate | 0.984 | 1.131 | | 14.9 | |
| Fluoranthene | 0.961 | 0.969 | | 0.8 | 20.0 |
| Pyrene | 1.883 | 2.088 | | 10.9 | |
| Terphenyl-d14 | 1.195 | 1.360 | | 13.8 | |
| Benzo(a)anthracene | 1.377 | 1.402 | | 1.8 | |
| Chrysene | 1.243 | 1.236 | | -0.6 | |
| Bis(2-ethylhexyl)phthalate | 0.883 | 0.871 | | -1.4 | |
| Benzo(b)fluoranthene | 1.240 | 1.227 | | -1.0 | |
| Benzo(k)fluoranthene | 1.073 | 1.114 | | 3.8 | |
| Benzo(a)pyrene | 1.043 | 1.061 | | 1.7 | 20.0 |
| Indeno(1,2,3-cd)pyrene | 1.433 | 1.363 | | -4.9 | |
| Dibenzo(a,h)anthracene | 1.177 | 1.113 | | -5.4 | |
| Benzo(g,h,i)perylene | 1.221 | 1.134 | | -7.1 | |

Form VII SV-1

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: P3457 SAS No.: P3457 SDG No.: P3457

Instrument ID: BNA_F Calibration Date/Time: 08/10/2024 10:41

Lab File ID: BF138901.D Init. Calib. Date(s): 07/30/2024 07/30/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:54 16:29

GC Column: DB-UI ID: 0.18 (mm)

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 1,4-Dioxane | 0.567 | 0.483 | | -14.8 | 20.0 |
| 1-Methylnaphthalene | 0.652 | 0.672 | | 3.1 | |

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081024\
Data File : BF138901.D
Acq On : 10 Aug 2024 10:41
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 12 01:11:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations APPROVED**
Reviewed By :Jagrut Upadhyay 08/12/2024
Supervised By :mohammad ahmed 08/13/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.845 | 152 | 63234 | 20.000 | ng | | 0.00 |
| 21) Naphthalene-d8 | 8.128 | 136 | 258541 | 20.000 | ng | | 0.00 |
| 39) Acenaphthene-d10 | 9.880 | 164 | 146261 | 20.000 | ng | | 0.00 |
| 64) Phenanthrene-d10 | 11.369 | 188 | 247933 | 20.000 | ng | | 0.00 |
| 76) Chrysene-d12 | 14.004 | 240 | 115525 | 20.000 | ng | | 0.00 |
| 86) Perylene-d12 | 15.468 | 264 | 117822 | 20.000 | ng | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.475 | 112 | 320465 | 78.231 | ng | | 0.00 |
| 7) Phenol-d6 | 6.492 | 99 | 439099 | 79.839 | ng | | 0.00 |
| 23) Nitrobenzene-d5 | 7.416 | 82 | 439920 | 83.191 | ng | | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.675 | 330 | 103699 | 86.555 | ng | | 0.00 |
| 45) 2-Fluorobiphenyl | 9.198 | 172 | 804889 | 82.684 | ng | | 0.00 |
| 79) Terphenyl-d14 | 12.945 | 244 | 628672 | 91.112 | ng | | 0.00 |
| **Target Compounds** | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.599 | 88 | 61103 | 34.071 | ng | | 97 |
| 3) Pyridine | 3.357 | 79 | 157484 | 36.250 | ng | | 97 |
| 4) n-Nitrosodimethylamine | 3.334 | 42 | 112433 | 43.453 | ng | | 83 |
| 6) Aniline | 6.510 | 93 | 194296 | 39.613 | ng | # | 41 |
| 8) 2-Chlorophenol | 6.639 | 128 | 175639 | 40.753 | ng | | 96 |
| 9) Benzaldehyde | 6.398 | 77 | 115786 | 35.120 | ng | | 99 |
| 10) Phenol | 6.510 | 94 | 230139 | 39.743 | ng | | 79 |
| 11) bis(2-Chloroethyl)ether | 6.587 | 93 | 167809 | 37.658 | ng | | 99 |
| 12) 1,3-Dichlorobenzene | 6.787 | 146 | 192215 | 39.842 | ng | | 98 |
| 13) 1,4-Dichlorobenzene | 6.863 | 146 | 196478 | 40.356 | ng | | 100 |
| 14) 1,2-Dichlorobenzene | 7.016 | 146 | 188564 | 41.442 | ng | | 98 |
| 15) Benzyl Alcohol | 6.992 | 79 | 171483 | 43.260 | ng | | 97 |
| 16) 2,2'-oxybis(1-Chloropr... | 7.116 | 45 | 276455 | 36.049 | ng | # | 50 |
| 17) 2-Methylphenol | 7.110 | 107 | 142935 | 40.163 | ng | # | 91 |
| 18) Hexachloroethane | 7.351 | 117 | 76031 | 41.486 | ng | | 98 |
| 19) n-Nitroso-di-n-propyla... | 7.263 | 70 | 140425 | 42.274 | ng | | 99 |
| 20) 3+4-Methylphenols | 7.263 | 107 | 193788 | 42.440 | ng | | 93 |
| 22) Acetophenone | 7.257 | 105 | 264253 | 41.744 | ng | # | 98 |
| 24) Nitrobenzene | 7.434 | 77 | 219665 | 40.822 | ng | | 99 |
| 25) Isophorone | 7.675 | 82 | 363094 | 40.211 | ng | | 99 |
| 26) 2-Nitrophenol | 7.745 | 139 | 95229 | 41.134 | ng | | 92 |
| 27) 2,4-Dimethylphenol | 7.786 | 122 | 111520 | 40.261 | ng | | 98 |
| 28) bis(2-Chloroethoxy)met... | 7.875 | 93 | 215348 | 39.163 | ng | | 99 |
| 29) 2,4-Dichlorophenol | 7.992 | 162 | 148177 | 41.631 | ng | | 99 |
| 30) 1,2,4-Trichlorobenzene | 8.069 | 180 | 169785 | 41.335 | ng | | 97 |
| 31) Naphthalene | 8.151 | 128 | 547469 | 40.229 | ng | | 100 |
| 32) Benzoic acid | 7.951 | 122 | 73794 | 33.892 | ng | | 88 |
| 33) 4-Chloroaniline | 8.204 | 127 | 168871 | 36.967 | ng | | 98 |
| 34) Hexachlorobutadiene | 8.257 | 225 | 107615 | 43.255 | ng | | 100 |
| 35) Caprolactam | 8.598 | 113 | 45469m | 42.813 | ng | | |
| 36) 4-Chloro-3-methylphenol | 8.692 | 107 | 174210 | 42.827 | ng | | 98 |
| 37) 2-Methylnaphthalene | 8.839 | 142 | 357386 | 41.582 | ng | | 99 |
| 38) 1-Methylnaphthalene | 8.939 | 142 | 347514 | 41.263 | ng | | 99 |
| 40) 1,2,4,5-Tetrachloroben... | 9.004 | 216 | 166654 | 41.018 | ng | | 98 |
| 41) Hexachlorocyclopentadiene | 8.986 | 237 | 47919 | 47.645 | ng | | 99 |
| 43) 2,4,6-Trichlorophenol | 9.122 | 196 | 98461 | 39.746 | ng | | 99 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081024\
Data File : BF138901.D
Acq On : 10 Aug 2024 10:41
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 12 01:11:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations APPROVED**
Reviewed By :Jagrut Upadhyay 08/12/2024
Supervised By :mohammad ahmed 08/13/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 9.175 | 196 | 110160 | 40.677 | ng | | 98 |
| 46) 1,1'-Biphenyl | 9.304 | 154 | 456093 | 39.816 | ng | | 99 |
| 47) 2-Chloronaphthalene | 9.328 | 162 | 341460 | 40.080 | ng | | 100 |
| 48) 2-Nitroaniline | 9.433 | 65 | 119216 | 41.277 | ng | | 97 |
| 49) Acenaphthylene | 9.745 | 152 | 480233 | 39.744 | ng | | 99 |
| 50) Dimethylphthalate | 9.604 | 163 | 396316 | 42.377 | ng | | 100 |
| 51) 2,6-Dinitrotoluene | 9.675 | 165 | 90405 | 42.834 | ng | | 90 |
| 52) Acenaphthene | 9.916 | 154 | 323021 | 39.769 | ng | | 100 |
| 53) 3-Nitroaniline | 9.845 | 138 | 87074 | 39.908 | ng | | 94 |
| 54) 2,4-Dinitrophenol | 9.963 | 184 | 44762 | 46.071 | ng | | 87 |
| 55) Dibenzofuran | 10.086 | 168 | 465060 | 40.561 | ng | | 98 |
| 56) 4-Nitrophenol | 10.028 | 139 | 56447 | 43.021 | ng | | 93 |
| 57) 2,4-Dinitrotoluene | 10.080 | 165 | 118576 | 44.035 | ng | # | 83 |
| 58) Fluorene | 10.427 | 166 | 383007 | 41.948 | ng | | 100 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.210 | 232 | 85030 | 41.069 | ng | | 96 |
| 60) Diethylphthalate | 10.304 | 149 | 392422 | 44.254 | ng | | 100 |
| 61) 4-Chlorophenyl-phenyle... | 10.416 | 204 | 192635 | 42.898 | ng | | 95 |
| 62) 4-Nitroaniline | 10.469 | 138 | 86663 | 41.796 | ng | | 90 |
| 63) Azobenzene | 10.580 | 77 | 398845 | 40.554 | ng | | 97 |
| 65) 4,6-Dinitro-2-methylph... | 10.498 | 198 | 63626 | 42.064 | ng | | 98 |
| 66) n-Nitrosodiphenylamine | 10.545 | 169 | 315882 | 40.760 | ng | | 99 |
| 67) 4-Bromophenyl-phenylether | 10.910 | 248 | 111751 | 41.631 | ng | | 98 |
| 68) Hexachlorobenzene | 10.975 | 284 | 113668 | 41.012 | ng | | 97 |
| 69) Atrazine | 11.069 | 200 | 73548 | 36.784 | ng | | 98 |
| 70) Pentachlorophenol | 11.180 | 266 | 60194 | 48.183 | ng | | 98 |
| 71) Phenanthrene | 11.392 | 178 | 521085 | 40.816 | ng | | 100 |
| 72) Anthracene | 11.445 | 178 | 510139 | 40.562 | ng | | 100 |
| 73) Carbazole | 11.604 | 167 | 437899 | 40.357 | ng | | 99 |
| 74) Di-n-butylphthalate | 11.922 | 149 | 560651 | 45.963 | ng | | 99 |
| 75) Fluoranthene | 12.580 | 202 | 480391 | 40.307 | ng | | 99 |
| 77) Benzidine | 12.704 | 184 | 119714 | 43.325 | ng | | 99 |
| 78) Pyrene | 12.810 | 202 | 482435 | 44.353 | ng | | 100 |
| 80) Butylbenzylphthalate | 13.416 | 149 | 154344 | 44.312 | ng | | 99 |
| 81) Benzo(a)anthracene | 13.998 | 228 | 323951 | 40.721 | ng | | 99 |
| 82) 3,3'-Dichlorobenzidine | 13.957 | 252 | 86086 | 42.286 | ng | | 99 |
| 83) Chrysene | 14.033 | 228 | 285552 | 39.786 | ng | | 100 |
| 84) Bis(2-ethylhexyl)phtha... | 13.968 | 149 | 201163 | 39.440 | ng | | 98 |
| 85) Di-n-octyl phthalate | 14.580 | 149 | 351563 | 37.255 | ng | | 100 |
| 87) Indeno(1,2,3-cd)pyrene | 16.956 | 276 | 321131 | 38.033 | ng | | 96 |
| 88) Benzo(b)fluoranthene | 15.045 | 252 | 289097 | 39.582 | ng | | 98 |
| 89) Benzo(k)fluoranthene | 15.074 | 252 | 262435 | 41.500 | ng | | 98 |
| 90) Benzo(a)pyrene | 15.410 | 252 | 250070 | 40.704 | ng | | 99 |
| 91) Dibenzo(a,h)anthracene | 16.962 | 278 | 262197 | 37.829 | ng | | 98 |
| 92) Benzo(g,h,i)perylene | 17.398 | 276 | 267113 | 37.138 | ng | | 96 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081024\
Data File : BF138901.D
Acq On : 10 Aug 2024 10:41
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 12 01:11:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

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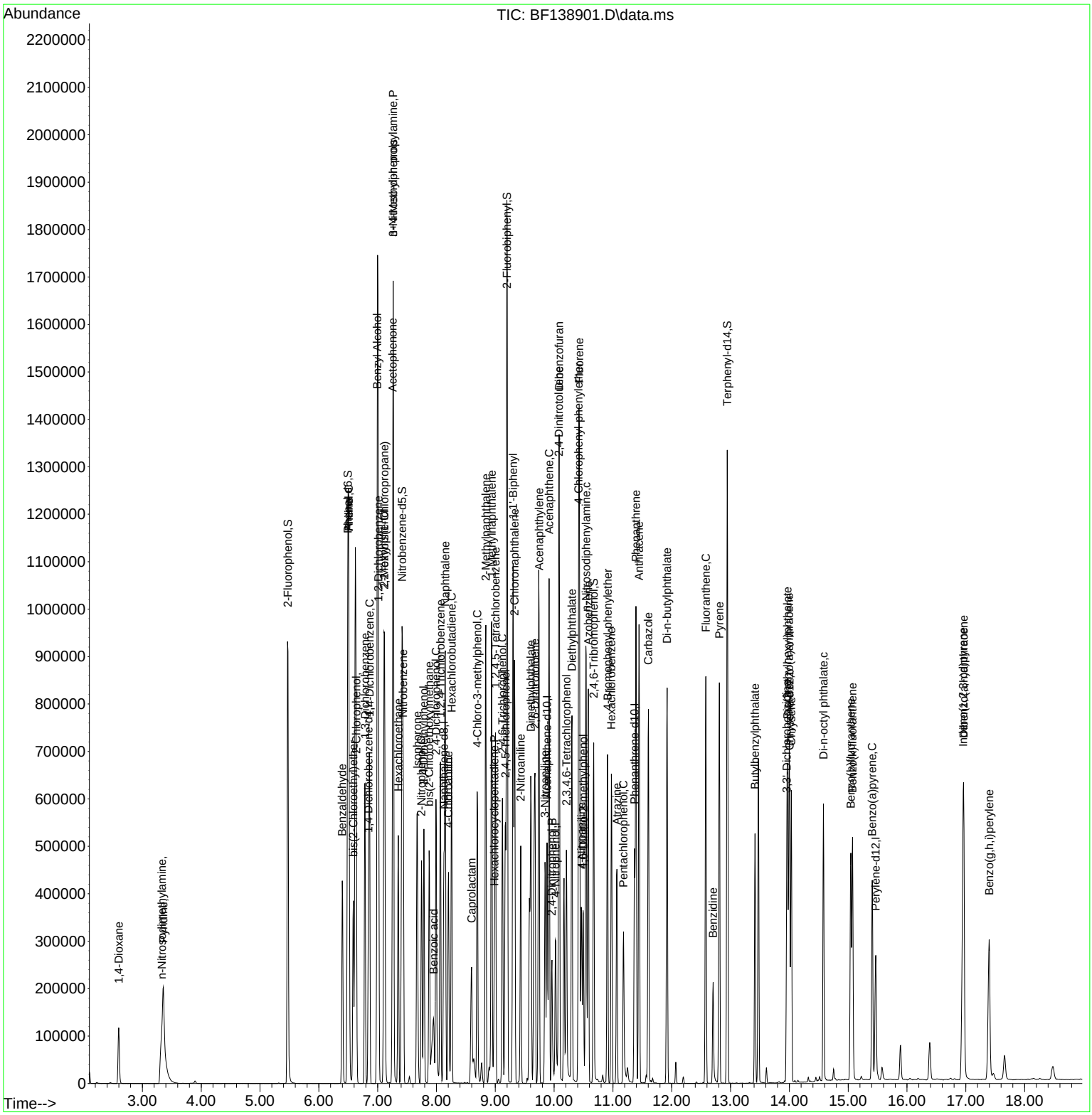
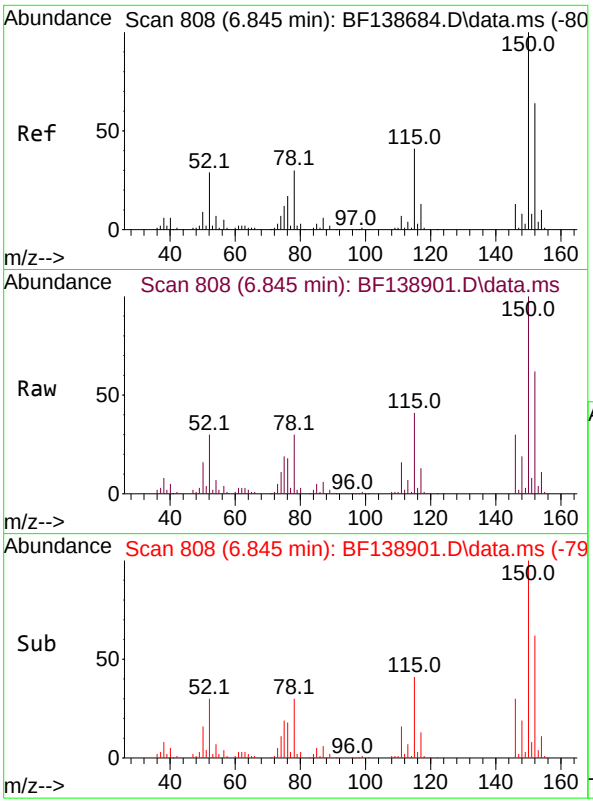
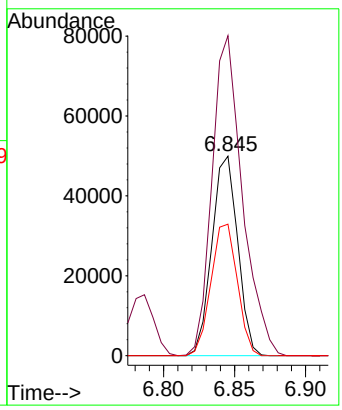





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.845 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:152 Resp: 6323

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 160.4 | 126.0 | 189.0 |
| 115 | 65.9 | 51.7 | 77.5 |

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SSTDCCC040

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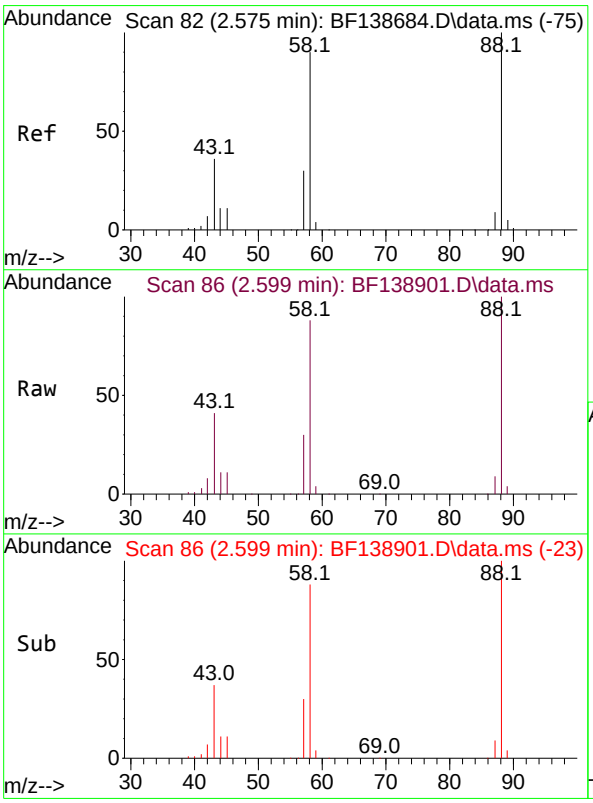
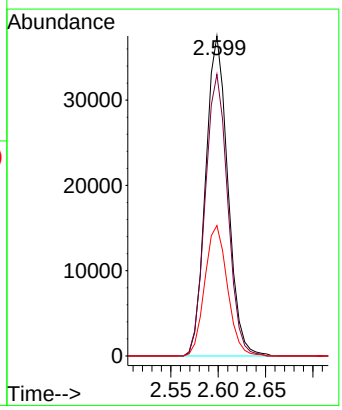
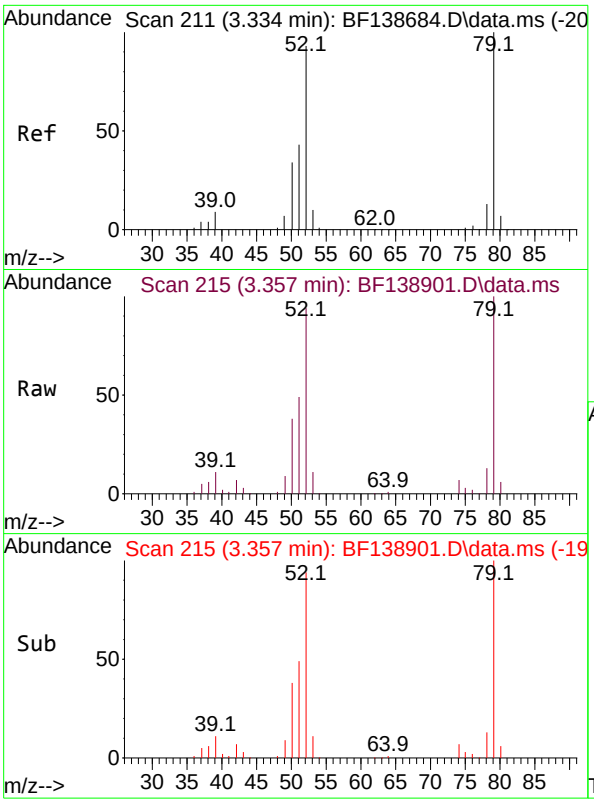



#2
1,4-Dioxane
Concen: 34.071 ng
RT: 2.599 min Scan# 86
Delta R.T. 0.023 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion: 88 Resp: 61103

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 89.1 | 71.6 | 107.4 |
| 43 | 41.5 | 28.7 | 43.1 |

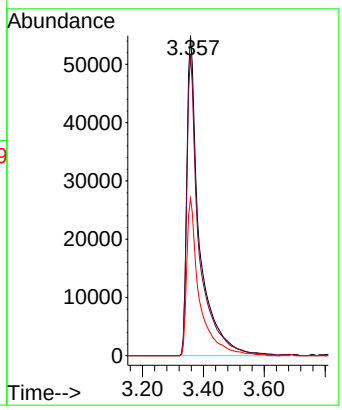





#3
Pyridine
Concen: 36.250 ng
RT: 3.357 min Scan# 21
Delta R.T. 0.023 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion: 79 Resp: 15748

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 94.0 | 74.7 | 112.1 |
| 51 | 49.2 | 34.6 | 51.8 |

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**ClientSampleId :**
SSTDCCC040

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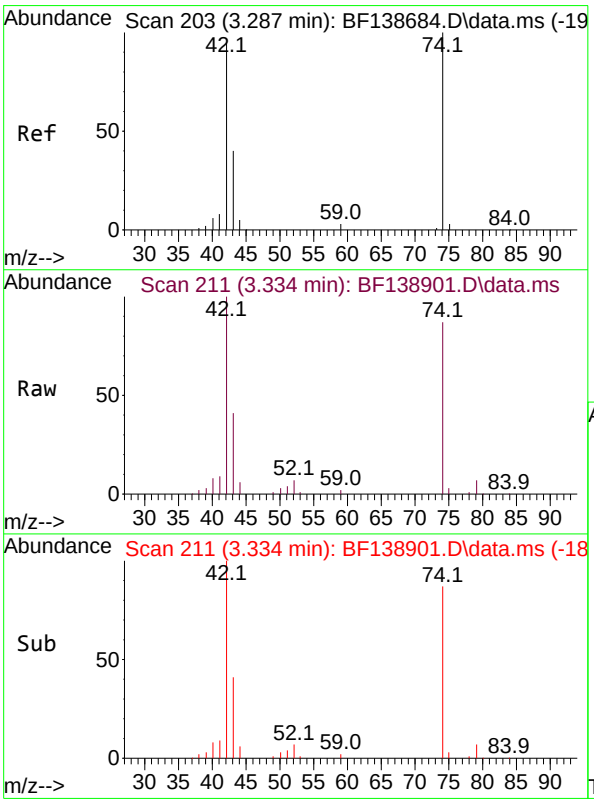
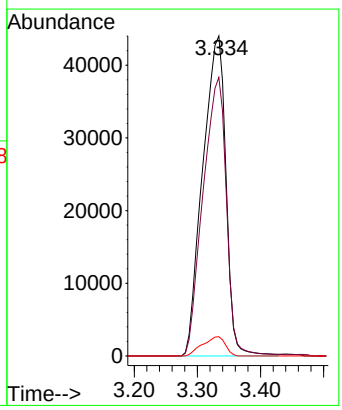
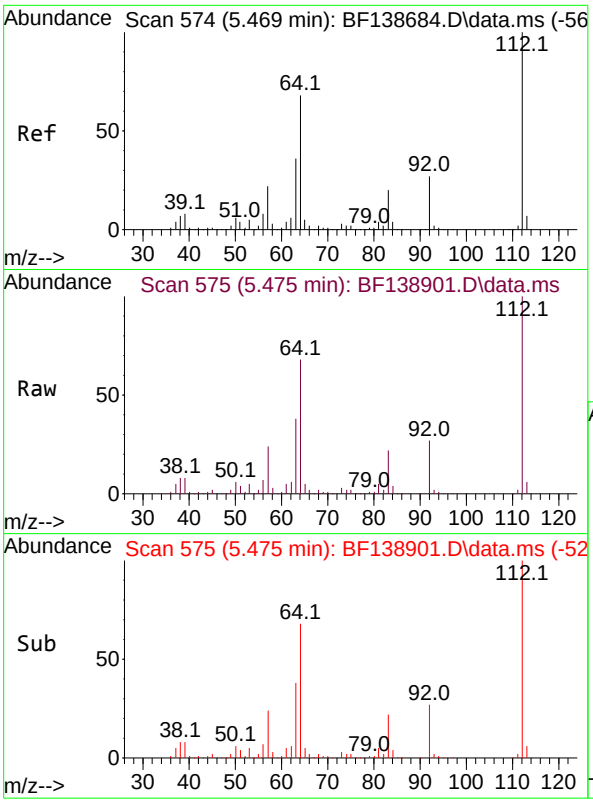



#4
n-Nitrosodimethylamine
Concen: 43.453 ng
RT: 3.334 min Scan# 211
Delta R.T. 0.047 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion: 42 Resp: 112433

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 87.0 | 84.2 | 126.4 |
| 44 | 6.0 | 4.9 | 7.3 |

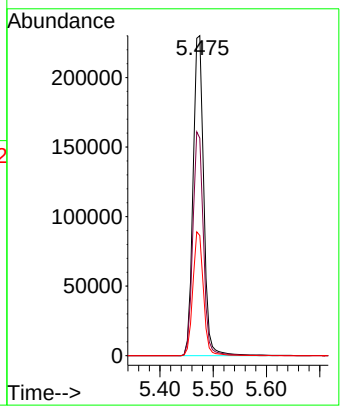





#5
2-Fluorophenol
Concen: 78.231 ng
RT: 5.475 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:112 Resp: 32046

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 68.0 | 54.2 | 81.4 |
| 63 | 37.5 | 28.7 | 43.1 |

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BNA_F
**ClientSampleId :**
SSTDCCC040

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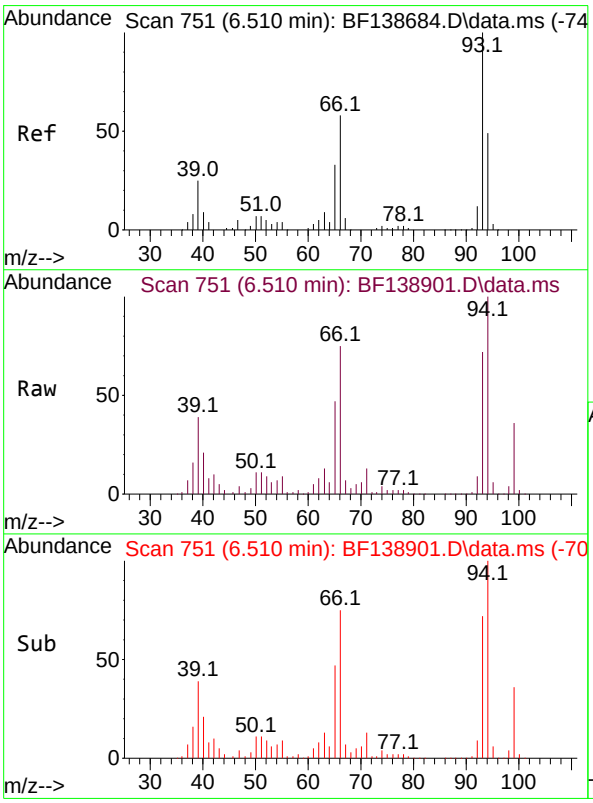
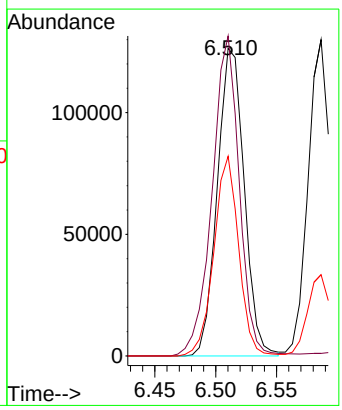
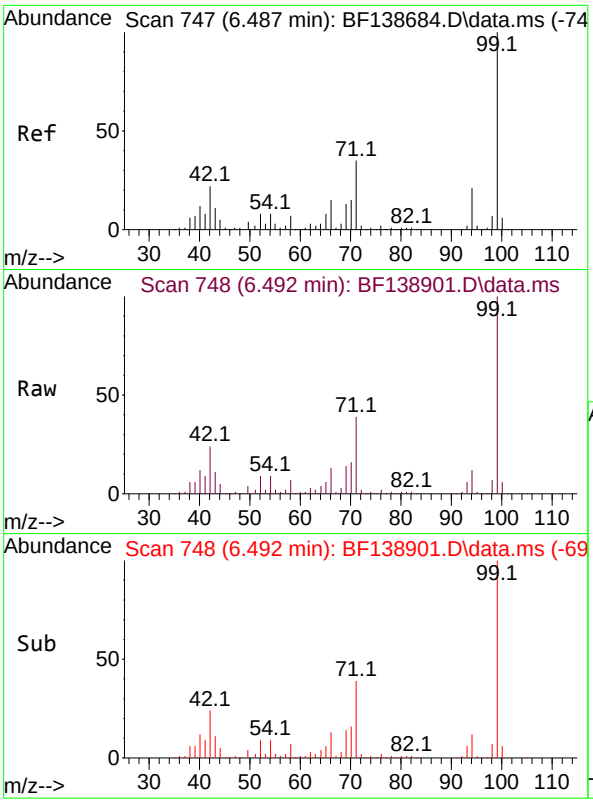



#6
Aniline
Concen: 39.613 ng
RT: 6.510 min Scan# 751
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion: 93 Resp: 194296

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 66 | 104.0 | 46.9 | 70.3# |
| 65 | 64.9 | 26.5 | 39.7# |

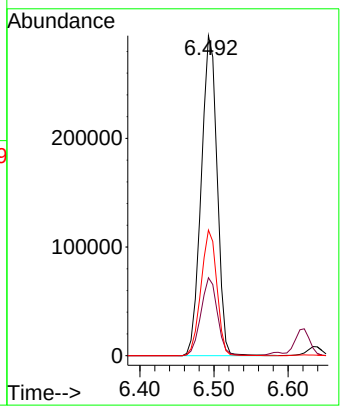





#7
Phenol-d6
Concen: 79.839 ng
RT: 6.492 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion: 99 Resp: 43909

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 24.3 | 17.4 | 26.0 |
| 71 | 39.3 | 28.1 | 42.1 |

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BNA_F
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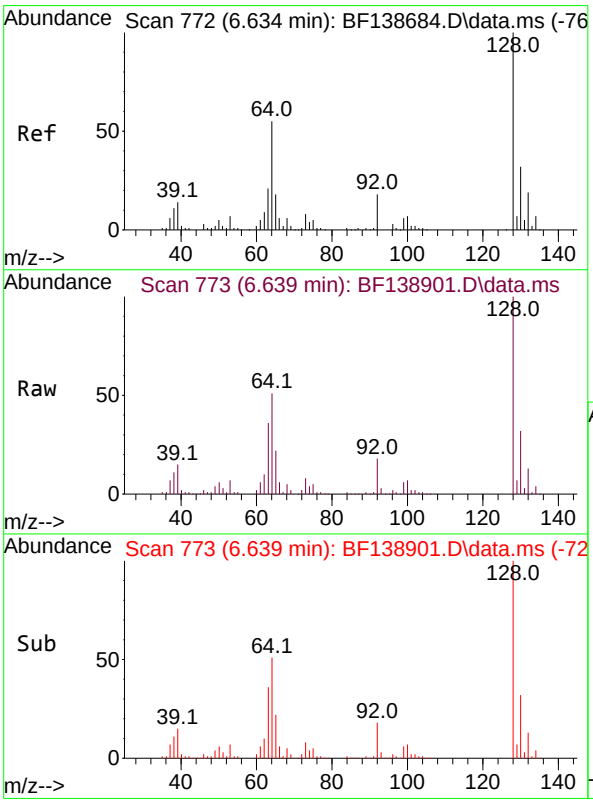
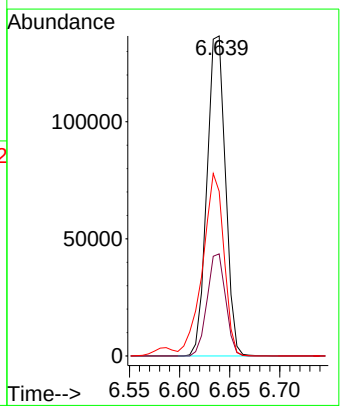
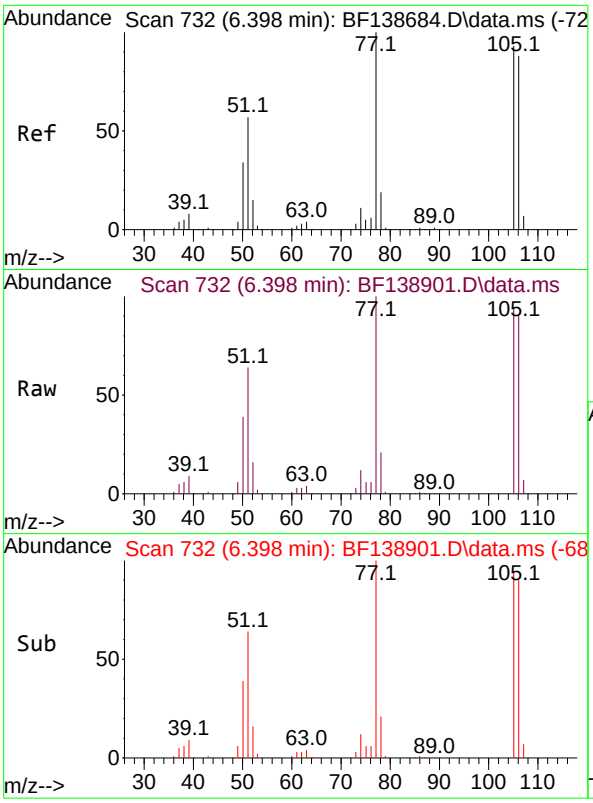



#8
2-Chlorophenol
Concen: 40.753 ng
RT: 6.639 min Scan# 773
Delta R.T. 0.006 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:128 Resp: 175639

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 130 | 31.9 | 12.0 | 52.0 |
| 64 | 51.4 | 36.3 | 76.3 |

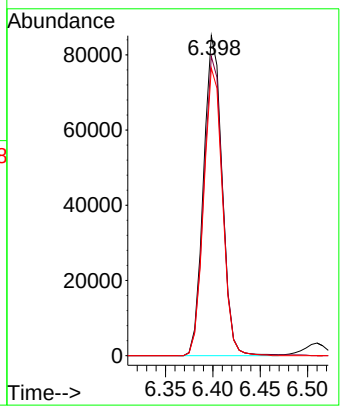





#9
Benzaldehyde
Concen: 35.120 ng
RT: 6.398 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion: 77 Resp: 11578

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 105 | 93.5 | 72.9 | 112.9 |
| 106 | 89.9 | 68.4 | 108.4 |

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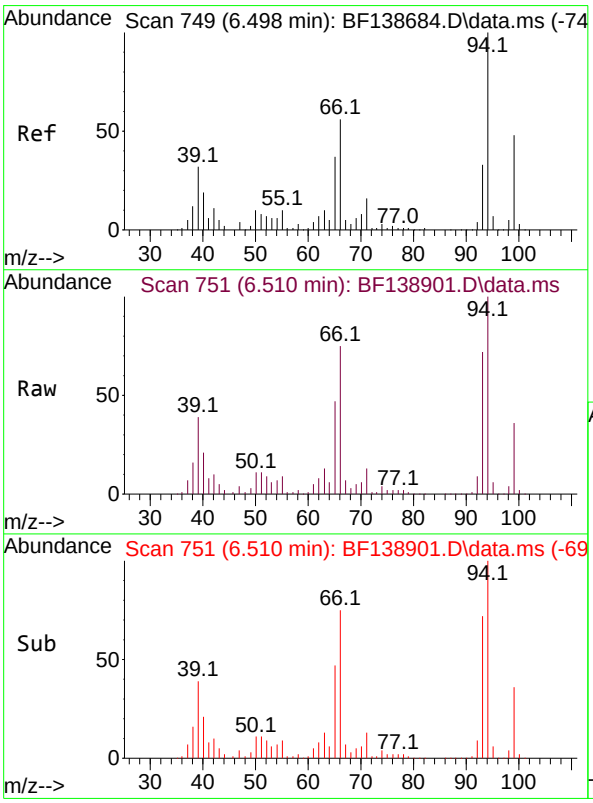
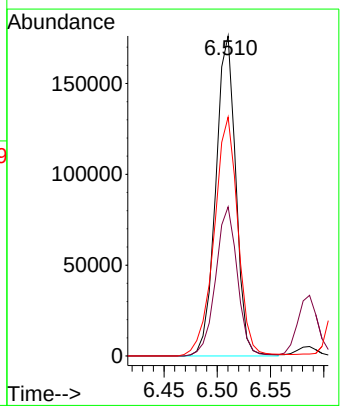
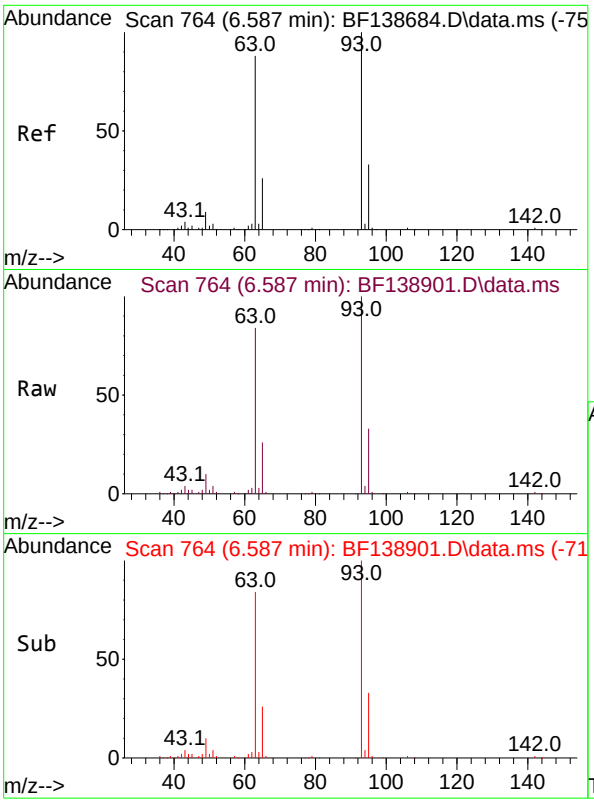



#10
Phenol
Concen: 39.743 ng
RT: 6.510 min Scan# 751
Delta R.T. 0.012 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion: 94 Resp: 230139

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 46.6 | 16.9 | 56.9 |
| 66 | 74.6 | 36.5 | 76.5 |

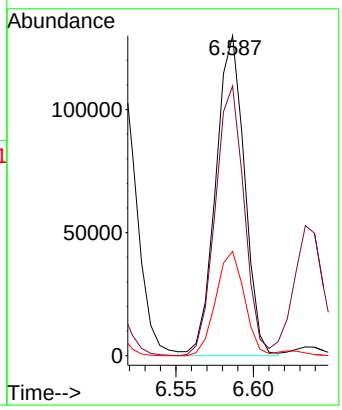





#11
bis(2-Chloroethyl)ether
Concen: 37.658 ng
RT: 6.587 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion: 93 Resp: 16780

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 84.3 | 65.3 | 105.3 |
| 95 | 32.6 | 12.4 | 52.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

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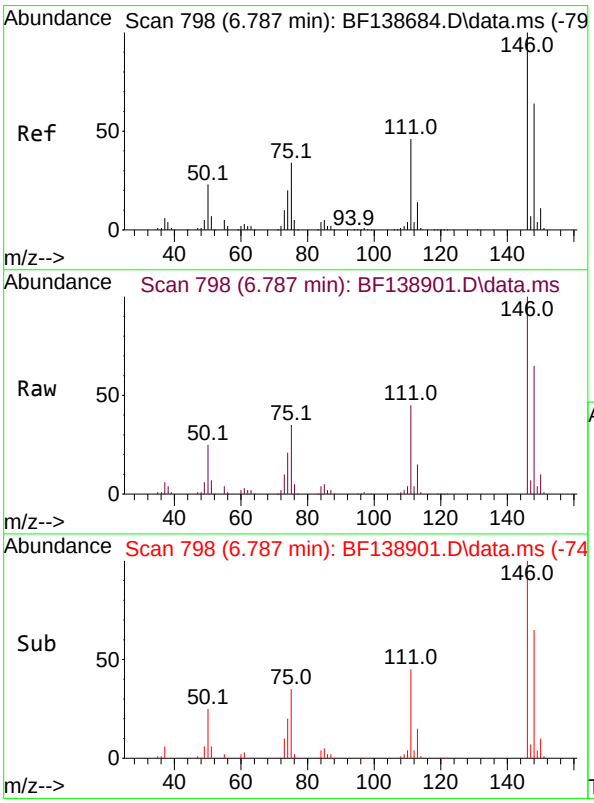
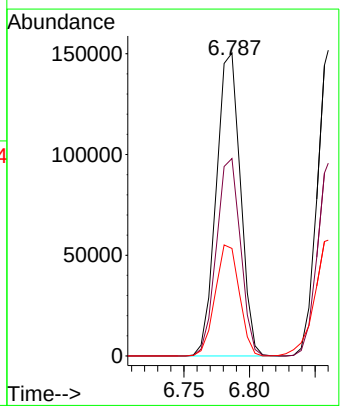
Supervised By :mohammad ahmed 08/13/2024

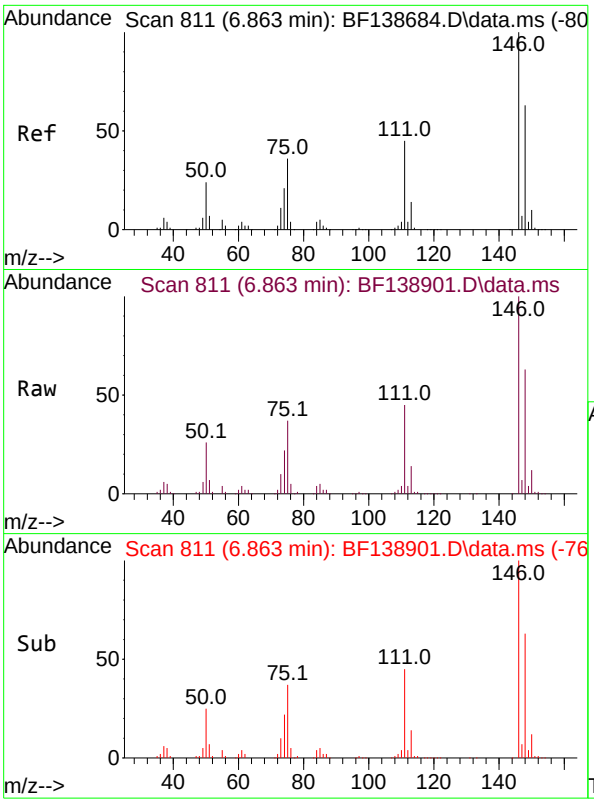



#12
1,3-Dichlorobenzene
Concen: 39.842 ng
RT: 6.787 min Scan# 798
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:146 Resp: 192215

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 65.2 | 51.2 | 76.8 |
| 75 | 35.5 | 27.4 | 41.2 |

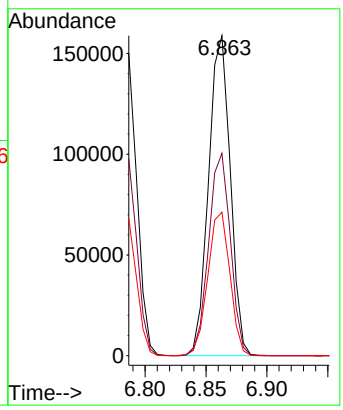





#13
1,4-Dichlorobenzene
Concen: 40.356 ng
RT: 6.863 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:146 Resp: 19647

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 63.2 | 50.2 | 75.2 |
| 111 | 44.9 | 35.9 | 53.9 |




**Instrument :**
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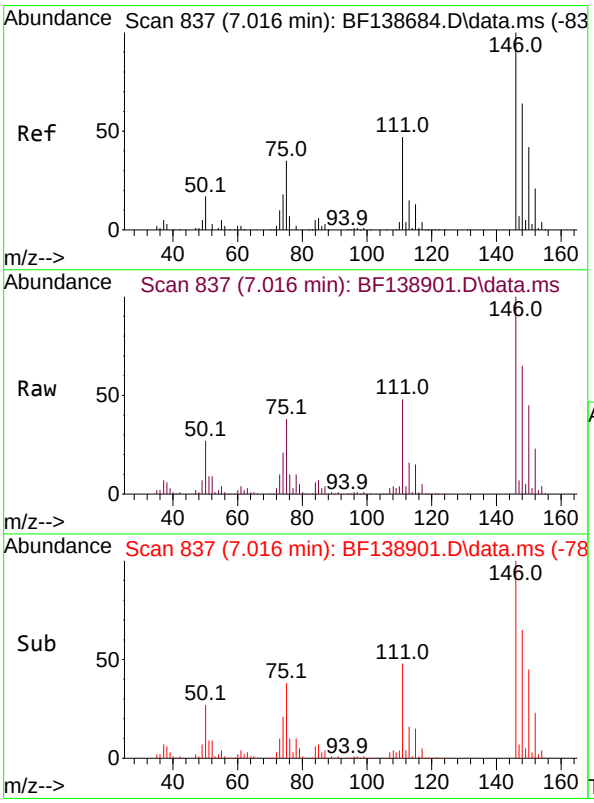
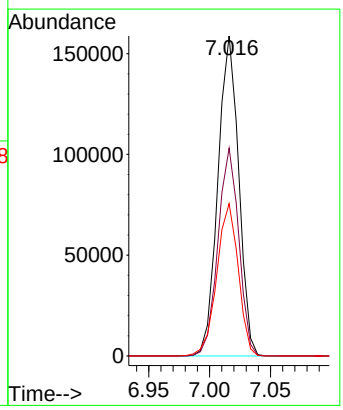
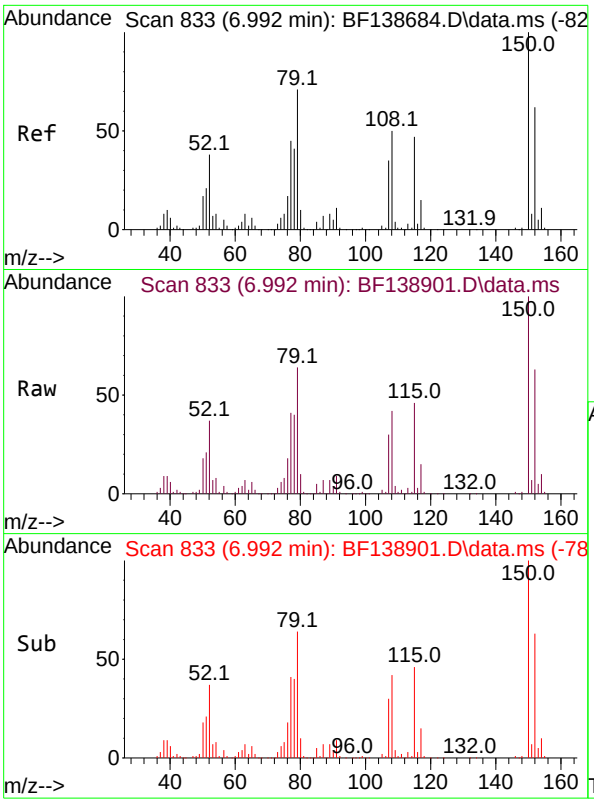



#14
1,2-Dichlorobenzene
Concen: 41.442 ng
RT: 7.016 min Scan# 837
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:146 Resp: 188564

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 64.9 | 50.8 | 76.2 |
| 111 | 47.6 | 37.4 | 56.2 |






#15
Benzyl Alcohol
Concen: 43.260 ng
RT: 6.992 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion: 79 Resp: 17148

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 108 | 66.5 | 56.6 | 85.0 |
| 77 | 63.7 | 50.3 | 75.5 |

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

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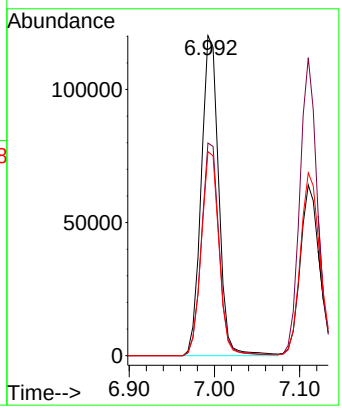
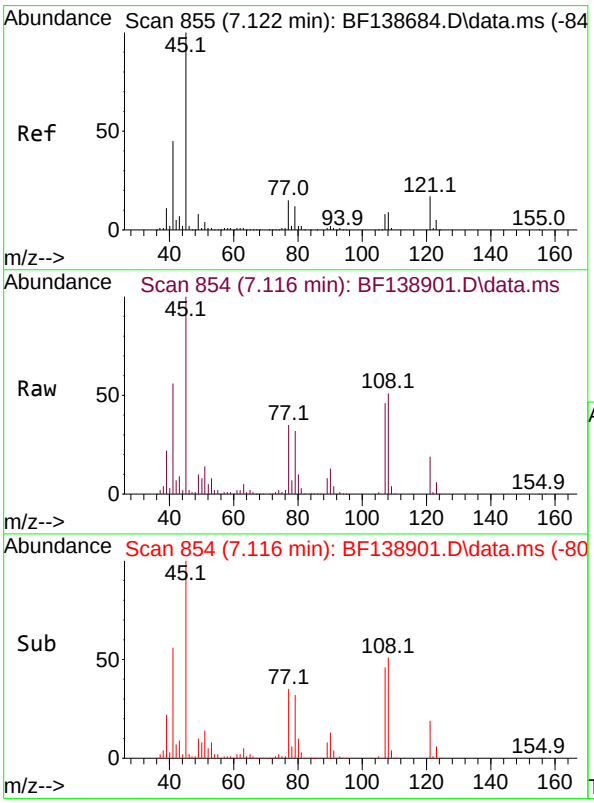
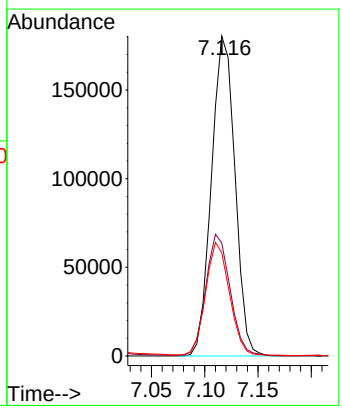


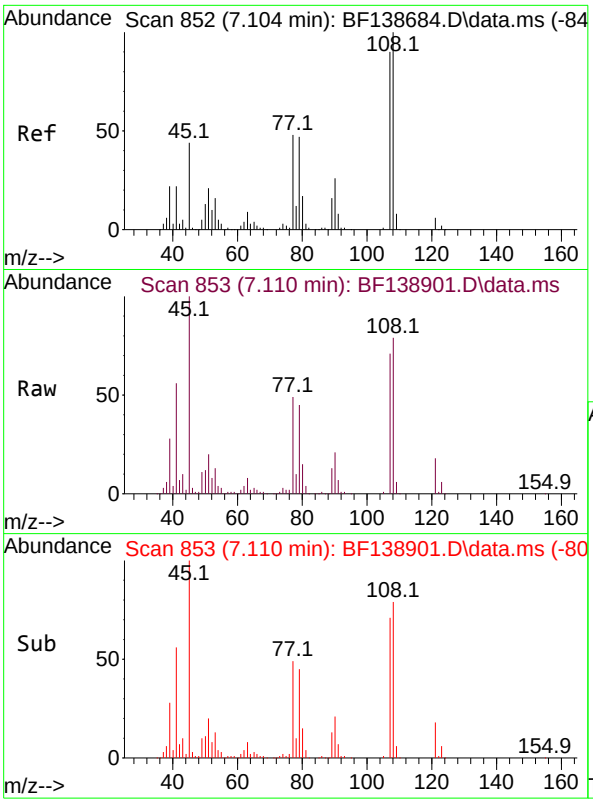




#16
2,2'-oxybis(1-Chloropropane)
Concen: 36.049 ng
RT: 7.116 min Scan# 854
Delta R.T. -0.006 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion: 45 Resp: 276455

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 77 | 35.4 | 0.0 | 34.9# |
| 79 | 32.2 | 0.0 | 32.2# |






#17
2-Methylphenol
Concen: 40.163 ng
RT: 7.110 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:107 Resp: 14293

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 111.1 | 89.2 | 133.8 |
| 77 | 68.2 | 43.0 | 64.4# |
| 79 | 63.7 | 42.2 | 63.2# |

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

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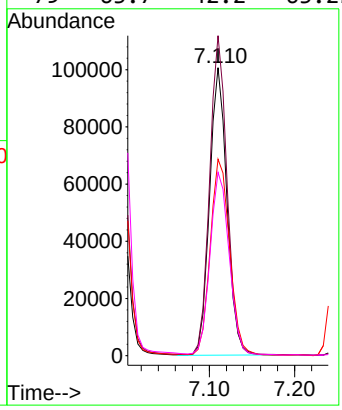
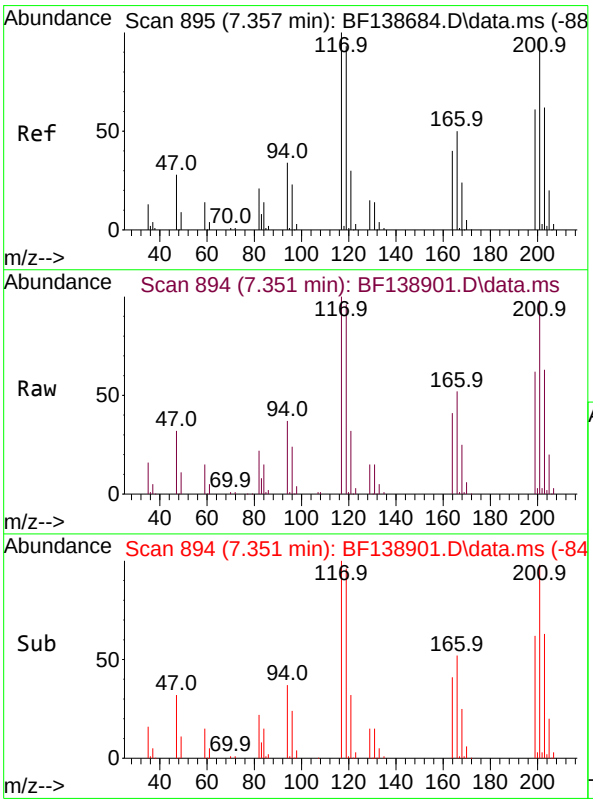
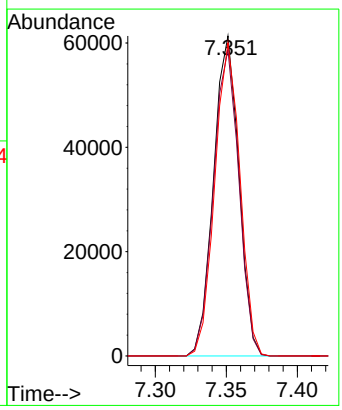


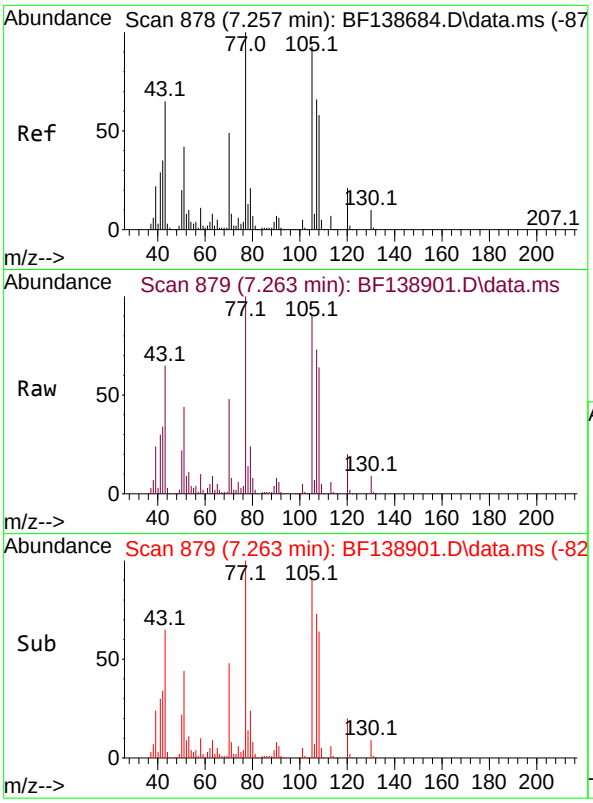




#18
Hexachloroethane
Concen: 41.486 ng
RT: 7.351 min Scan# 894
Delta R.T. -0.006 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:117 Resp: 76031

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 95.8 | 74.6 | 111.8 |
| 201 | 97.9 | 77.2 | 115.8 |

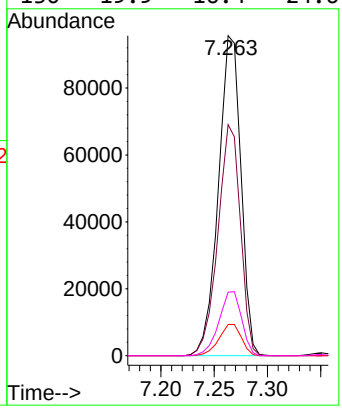





#19
n-Nitroso-di-n-propylamine
Concen: 42.274 ng
RT: 7.263 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion: 70 Resp: 14042

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 42 | 72.2 | 57.4 | 86.0 |
| 101 | 9.7 | 7.5 | 11.3 |
| 130 | 19.9 | 16.4 | 24.6 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

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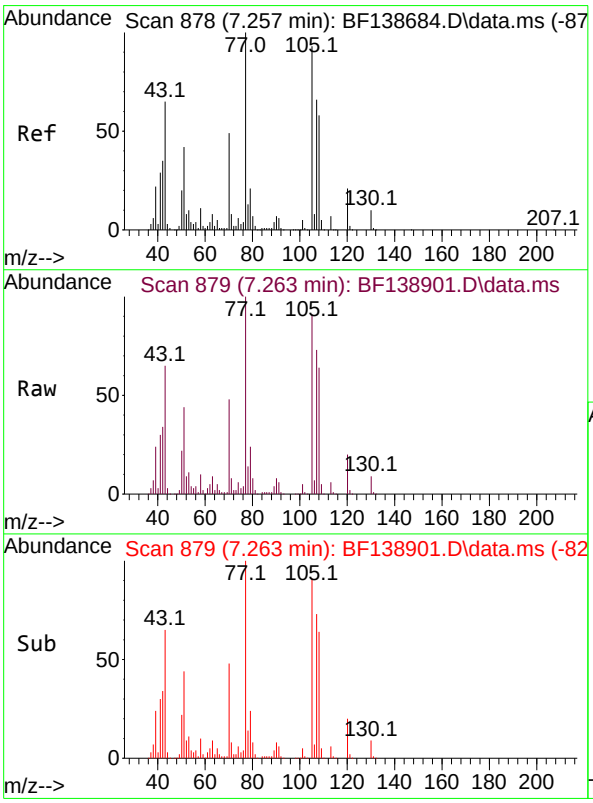
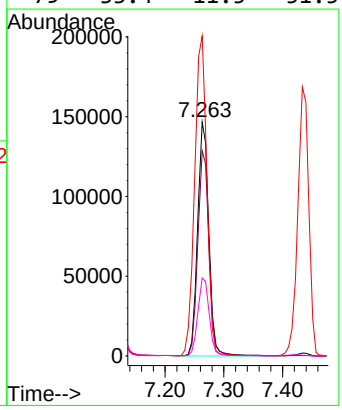
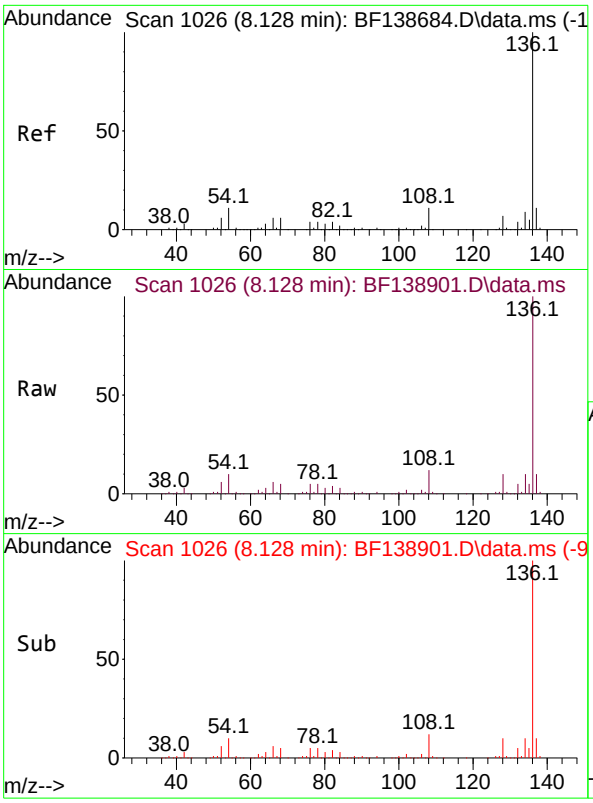



#20
3+4-Methylphenols
Concen: 42.440 ng
RT: 7.263 min Scan# 879
Delta R.T. 0.006 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:107 Resp: 193788

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 87.8 | 68.2 | 108.2 |
| 77 | 136.9 | 132.1 | 172.1 |
| 79 | 33.4 | 11.5 | 51.5 |






#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.128 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:136 Resp: 25854

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.4 | 8.9 | 13.3 |
| 54 | 9.6 | 8.6 | 12.8 |
| 68 | 5.2 | 4.8 | 7.2 |

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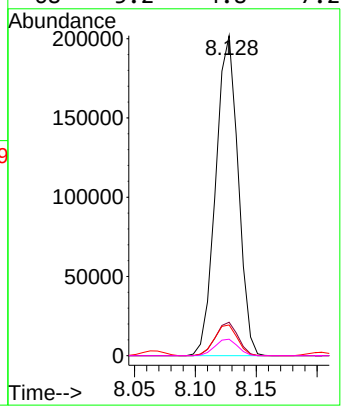
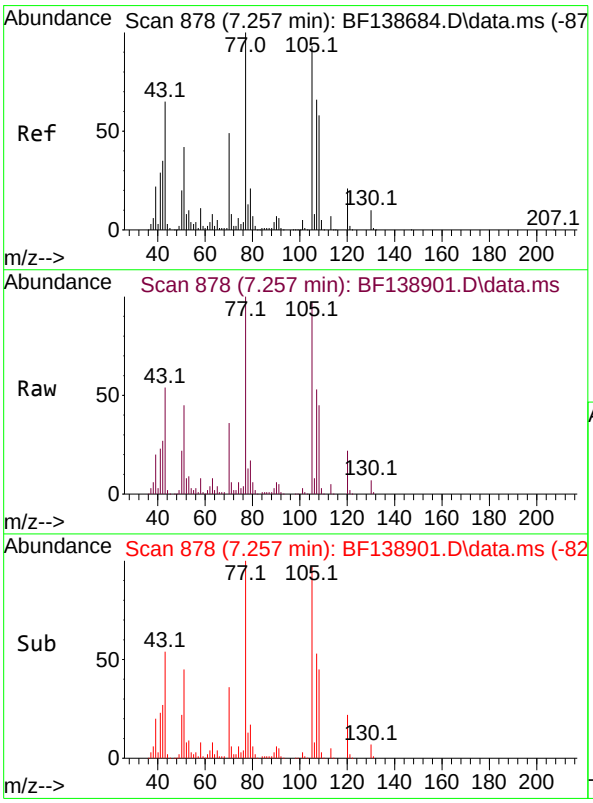
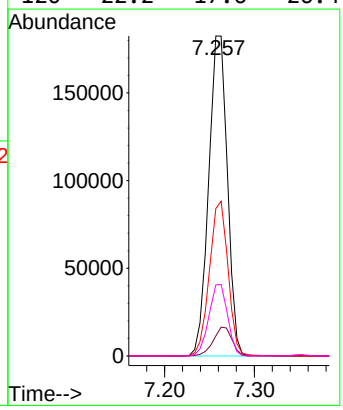


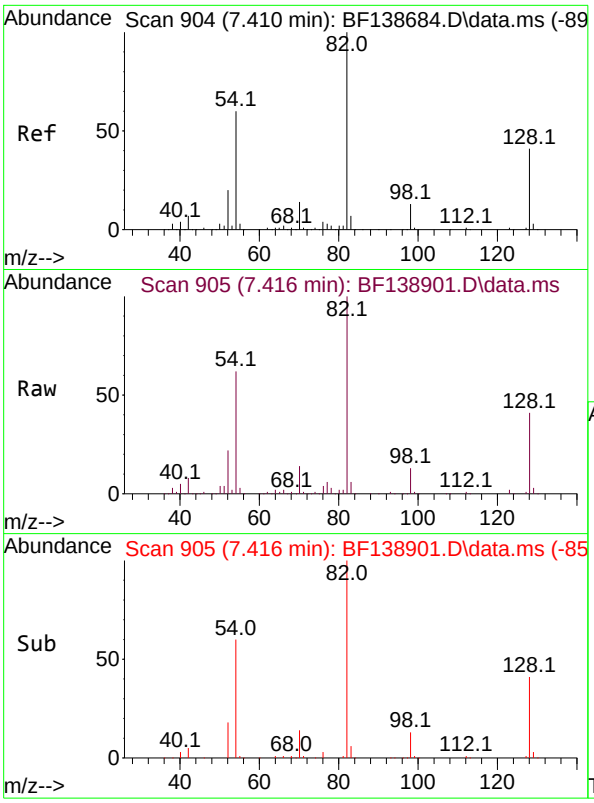




#22
Acetophenone
Concen: 41.744 ng
RT: 7.257 min Scan# 878
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:105 Resp: 264253

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 71 | 6.3 | 7.2 | 10.8# |
| 51 | 46.1 | 35.9 | 53.9 |
| 120 | 22.2 | 17.6 | 26.4 |

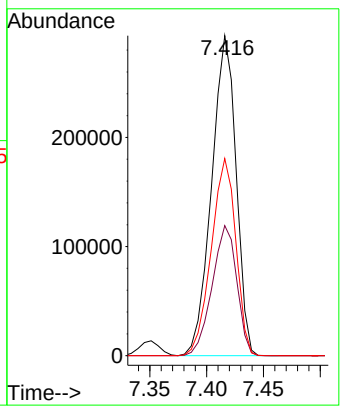





#23
Nitrobenzene-d5
Concen: 83.191 ng
RT: 7.416 min Scan# 9(
Delta R.T. 0.006 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion: 82 Resp: 43992(

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 40.7 | 32.8 | 49.2 |
| 54 | 61.6 | 48.3 | 72.5 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

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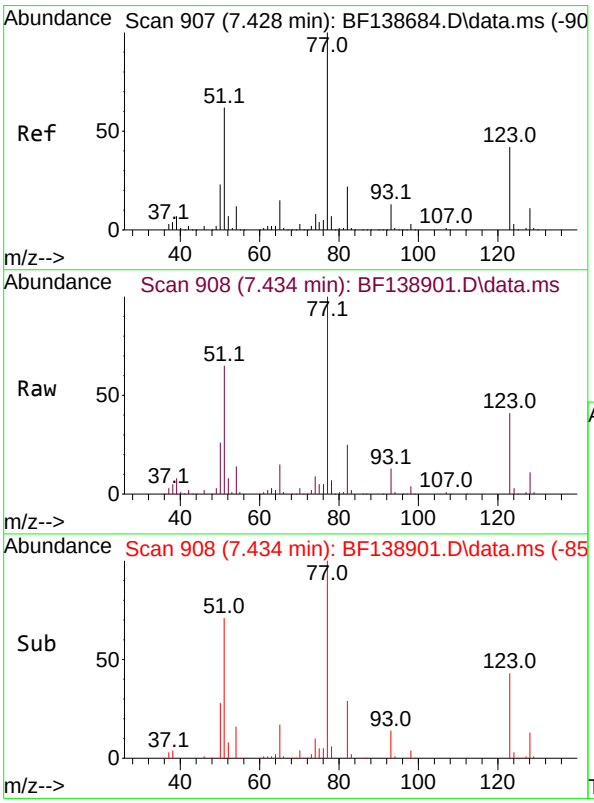
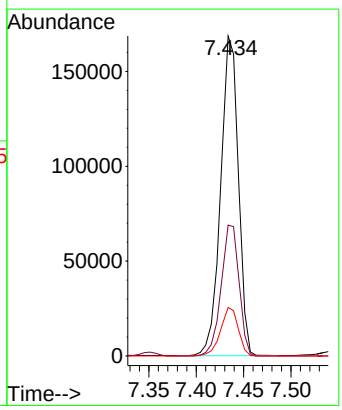
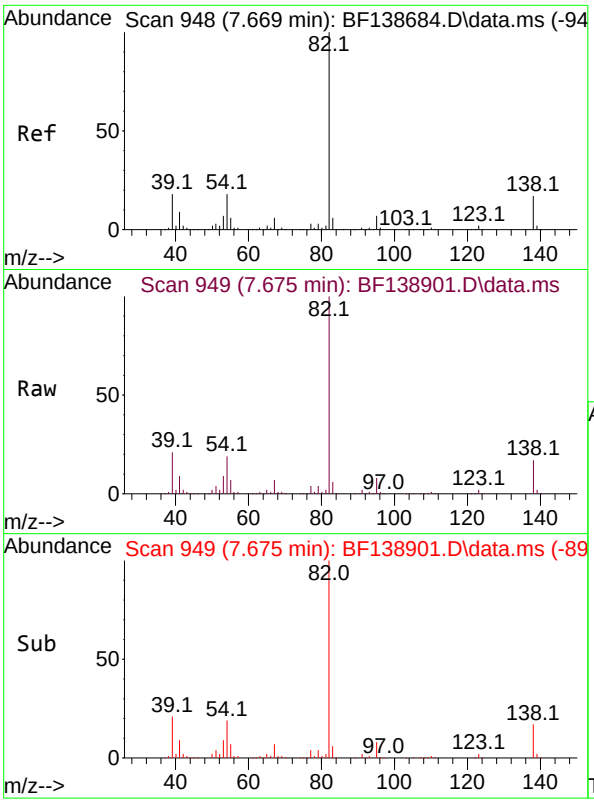



#24
Nitrobenzene
Concen: 40.822 ng
RT: 7.434 min Scan# 908
Delta R.T. 0.006 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion: 77 Resp: 219665

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 123 | 40.9 | 33.3 | 49.9 |
| 65 | 15.1 | 11.9 | 17.9 |

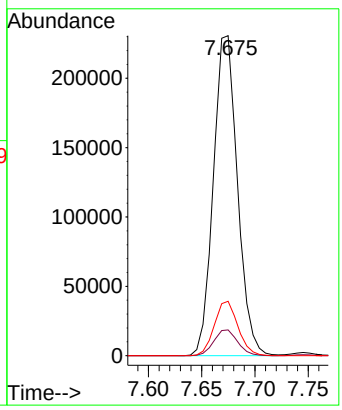





#25
Isophorone
Concen: 40.211 ng
RT: 7.675 min Scan# 94
Delta R.T. 0.006 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion: 82 Resp: 36309

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 95 | 8.0 | 5.7 | 8.5 |
| 138 | 17.0 | 13.7 | 20.5 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

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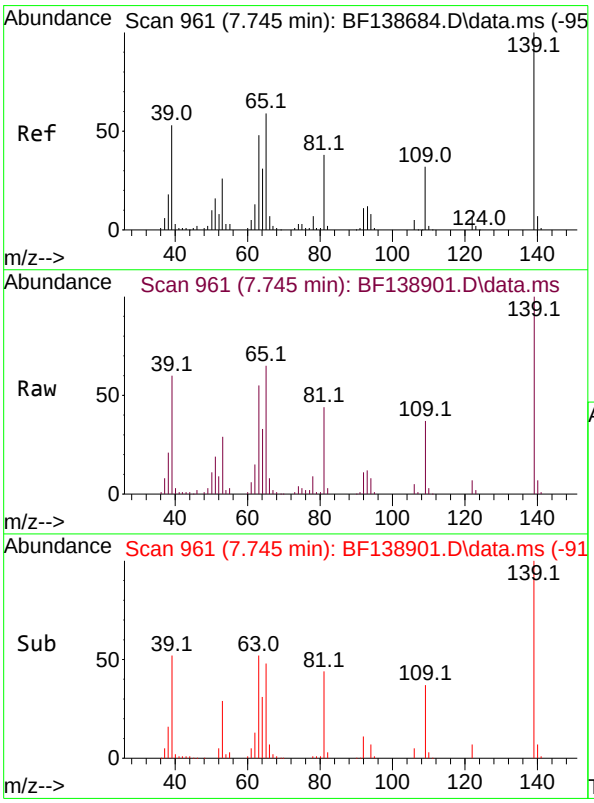
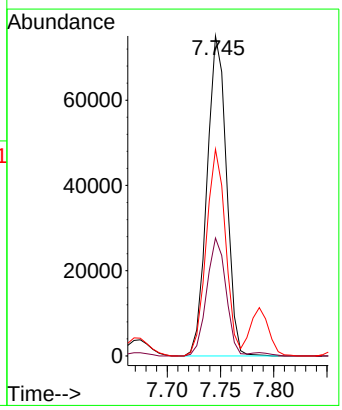
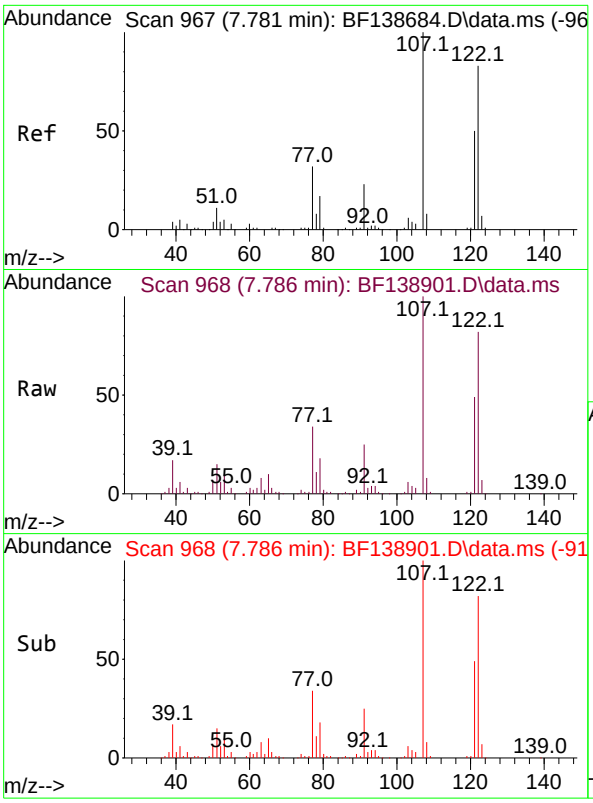



#26
2-Nitrophenol
Concen: 41.134 ng
RT: 7.745 min Scan# 961
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:139 Resp: 95229

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 36.9 | 25.9 | 38.9 |
| 65 | 64.6 | 47.0 | 70.6 |

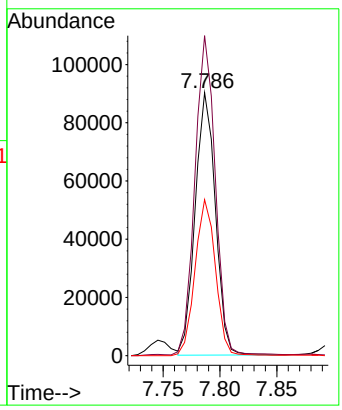





#27
2,4-Dimethylphenol
Concen: 40.261 ng
RT: 7.786 min Scan# 9(
Delta R.T. 0.006 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:122 Resp: 11152(

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 107 | 121.6 | 95.0 | 142.6 |
| 121 | 59.3 | 47.3 | 70.9 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

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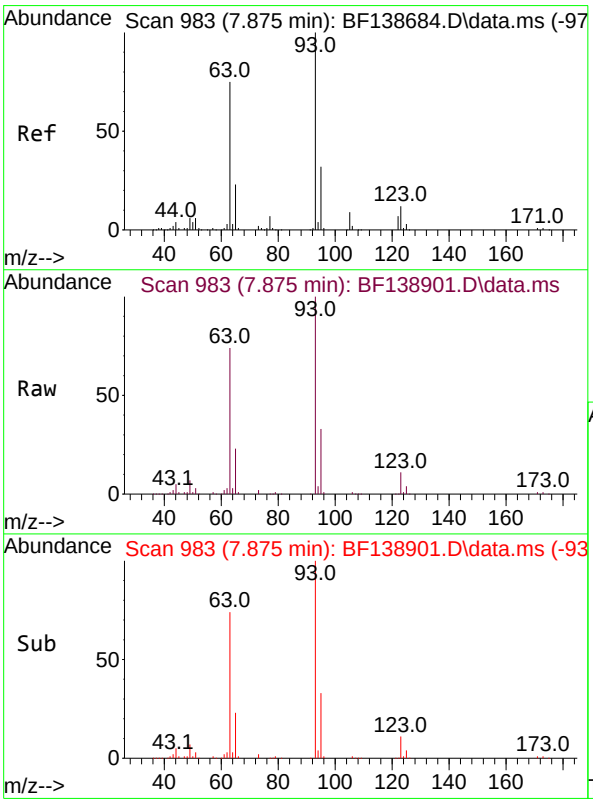
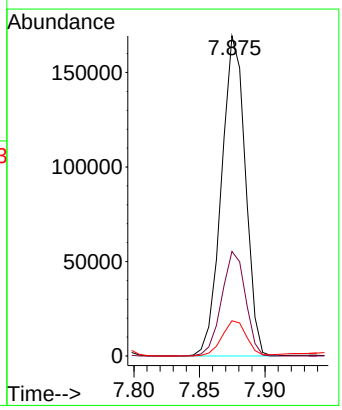
Reviewed By :Jagrut Upadhyay 08/12/2024
Supervised By :mohammad ahmed 08/13/2024

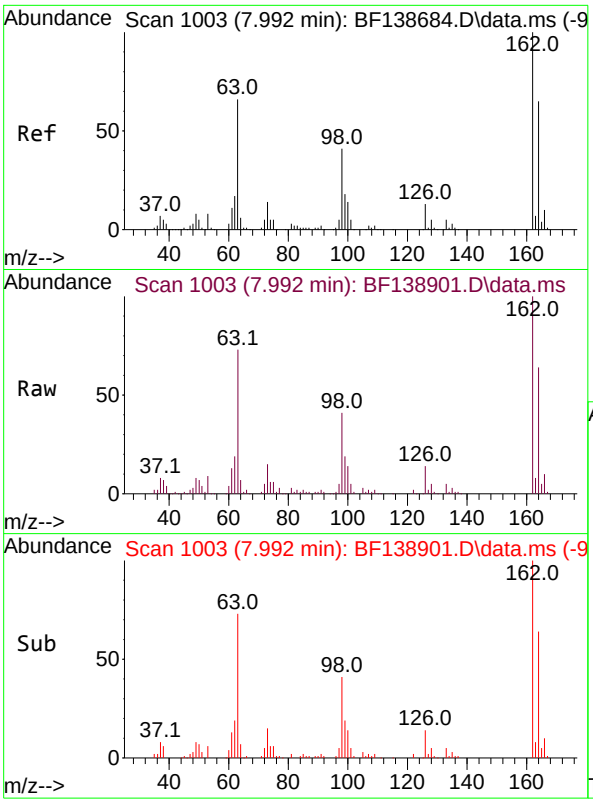



#28
bis(2-Chloroethoxy)methane
Concen: 39.163 ng
RT: 7.875 min Scan# 983
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion: 93 Resp: 215348

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 32.6 | 25.8 | 38.8 |
| 123 | 11.0 | 9.4 | 14.0 |

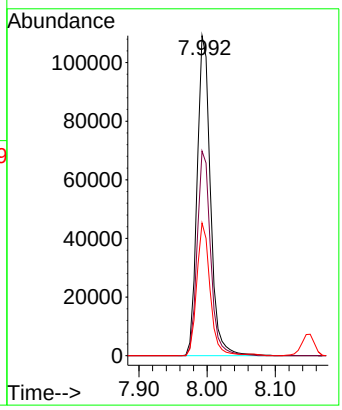





#29
2,4-Dichlorophenol
Concen: 41.631 ng
RT: 7.992 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:162 Resp: 14817

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 164 | 64.0 | 44.7 | 84.7 |
| 98 | 41.5 | 20.8 | 60.8 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

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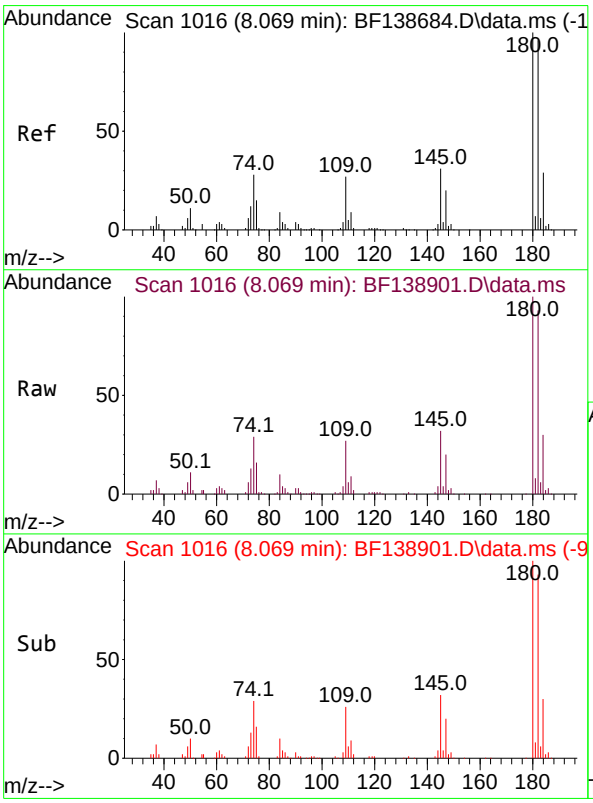
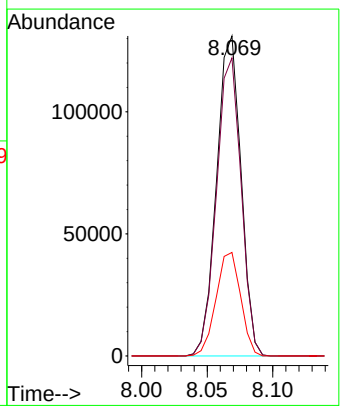
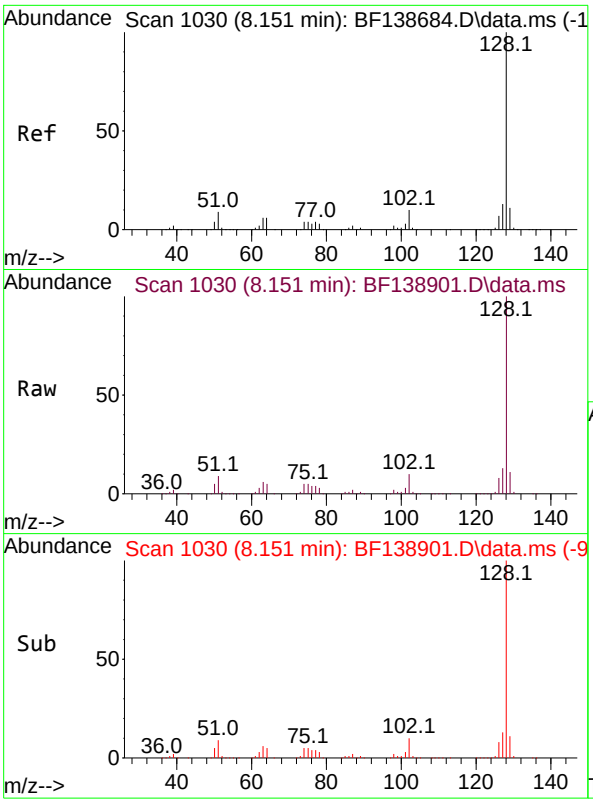



#30
1,2,4-Trichlorobenzene
Concen: 41.335 ng
RT: 8.069 min Scan# 1016
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:180 Resp: 169785

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.2 | 76.9 | 115.3 |
| 145 | 32.4 | 25.0 | 37.4 |

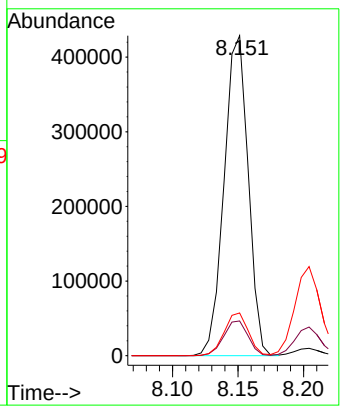





#31
Naphthalene
Concen: 40.229 ng
RT: 8.151 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:128 Resp: 54746

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 10.8 | 8.7 | 13.1 |
| 127 | 13.3 | 10.6 | 16.0 |

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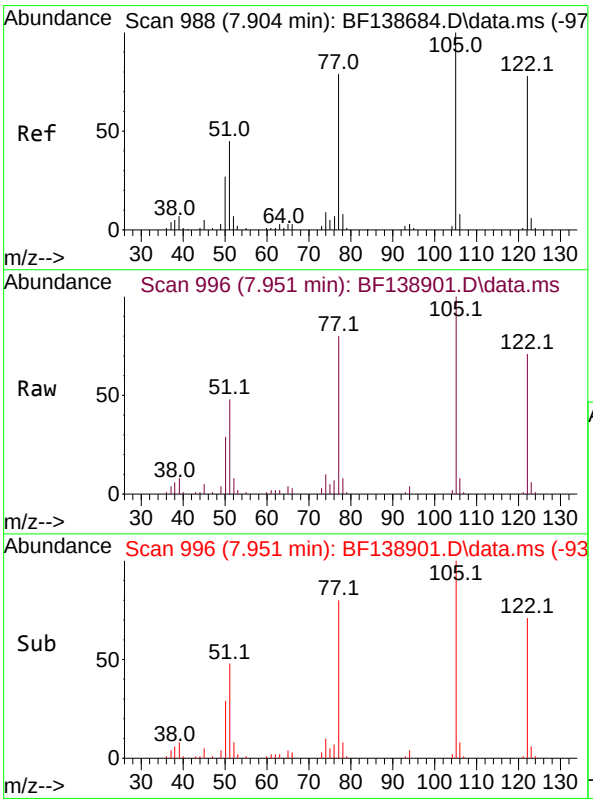
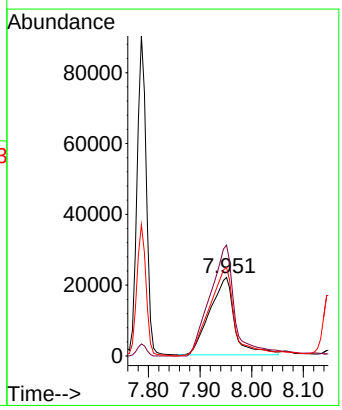
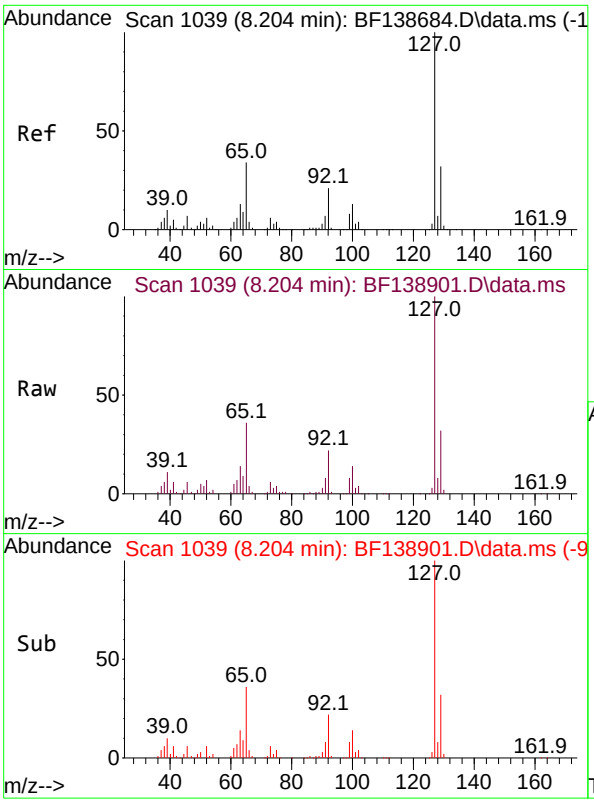



#32
Benzoic acid
Concen: 33.892 ng
RT: 7.951 min Scan# 996
Delta R.T. 0.047 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:122 Resp: 73794

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 141.4 | 106.7 | 146.7 |
| 77 | 113.0 | 81.1 | 121.1 |

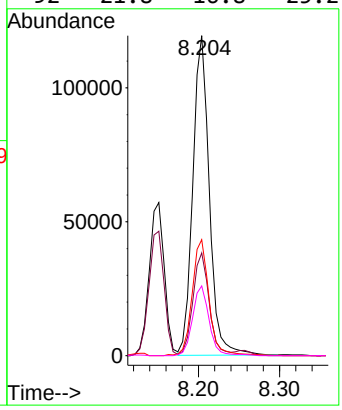





#33
4-Chloroaniline
Concen: 36.967 ng
RT: 8.204 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:127 Resp: 16887

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 32.1 | 25.9 | 38.9 |
| 65 | 36.2 | 27.6 | 41.4 |
| 92 | 21.8 | 16.8 | 25.2 |




**Instrument :**
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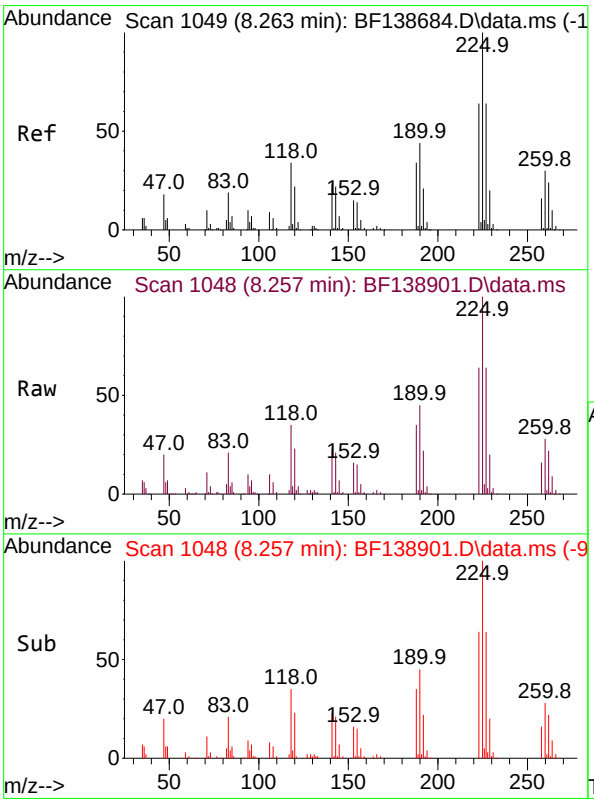
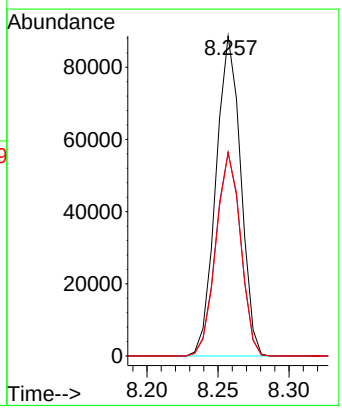
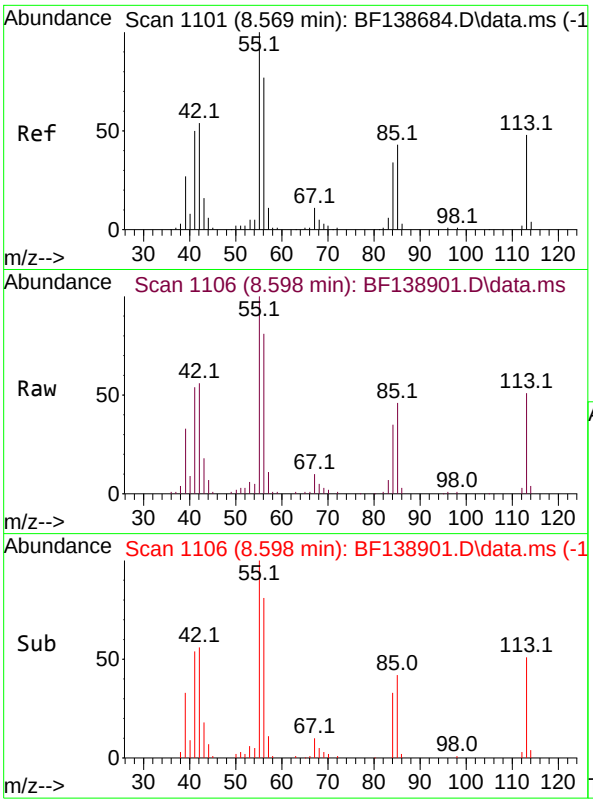



#34
Hexachlorobutadiene
Concen: 43.255 ng
RT: 8.257 min Scan# 1048
Delta R.T. -0.006 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:225 Resp: 107615

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.7 | 51.2 | 76.8 |
| 227 | 63.5 | 51.1 | 76.7 |

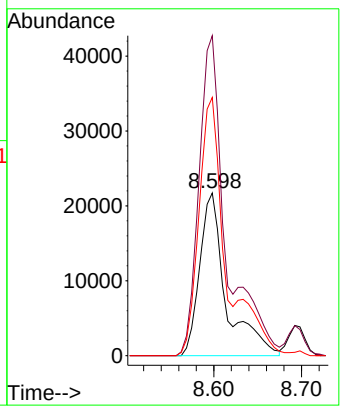





#35
Caprolactam
Concen: 42.813 ng m
RT: 8.598 min Scan# 1
Delta R.T. 0.029 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:113 Resp: 4546

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 55 | 196.6 | 186.7 | 226.7 |
| 56 | 158.6 | 138.9 | 178.9 |




**Instrument :**
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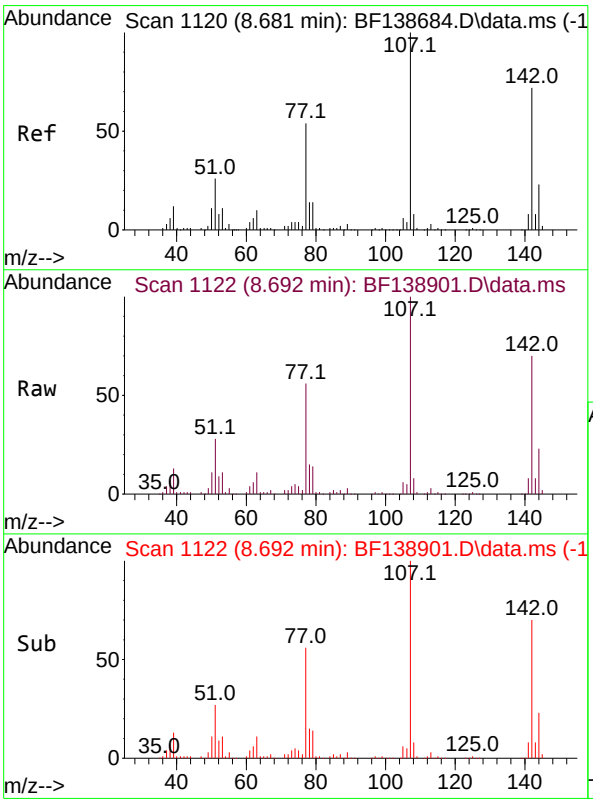
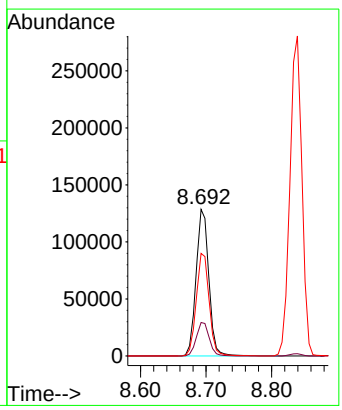
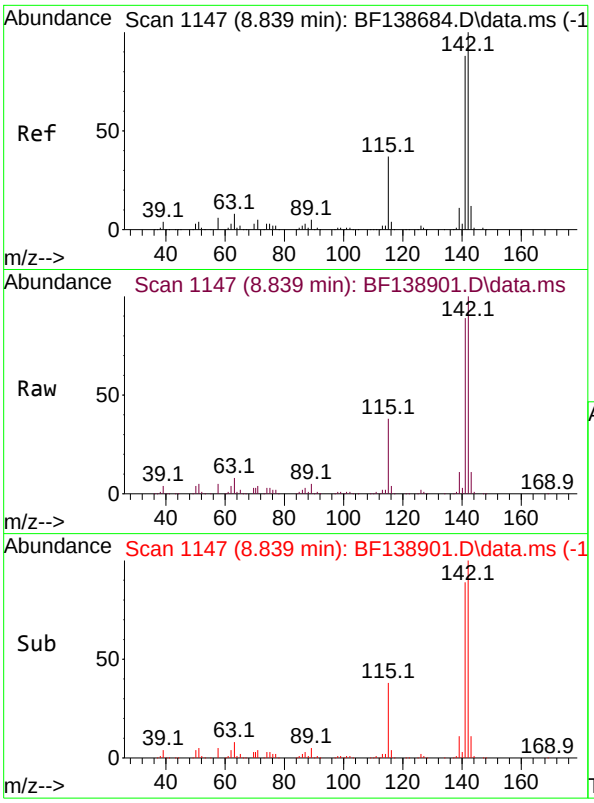



#36
4-Chloro-3-methylphenol
Concen: 42.827 ng
RT: 8.692 min Scan# 1122
Delta R.T. 0.012 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:107 Resp: 174210

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 144 | 22.8 | 18.2 | 27.2 |
| 142 | 69.9 | 57.4 | 86.2 |

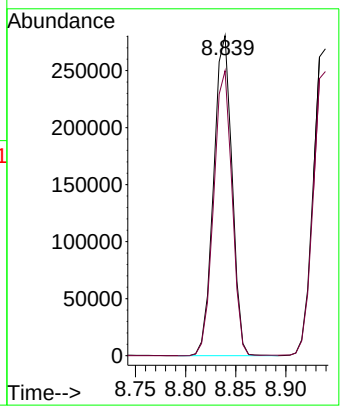





#37
2-Methylnaphthalene
Concen: 41.582 ng
RT: 8.839 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:142 Resp: 35738

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 89.0 | 70.8 | 106.2 |




**Instrument :**
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SSTDCCC040

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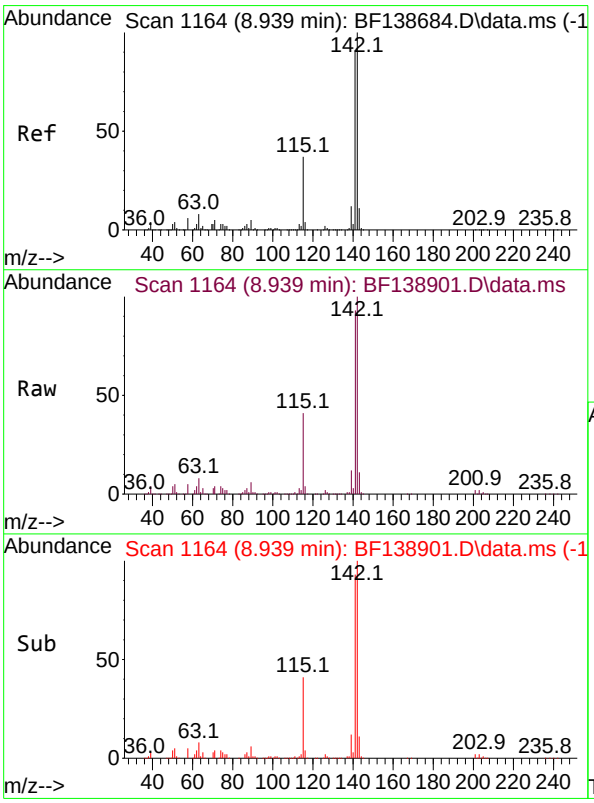
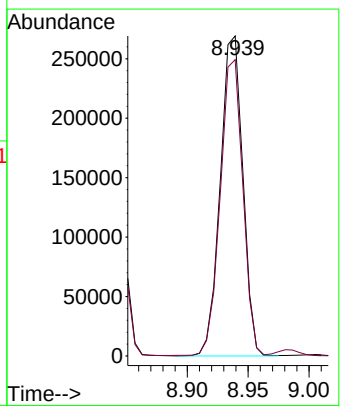
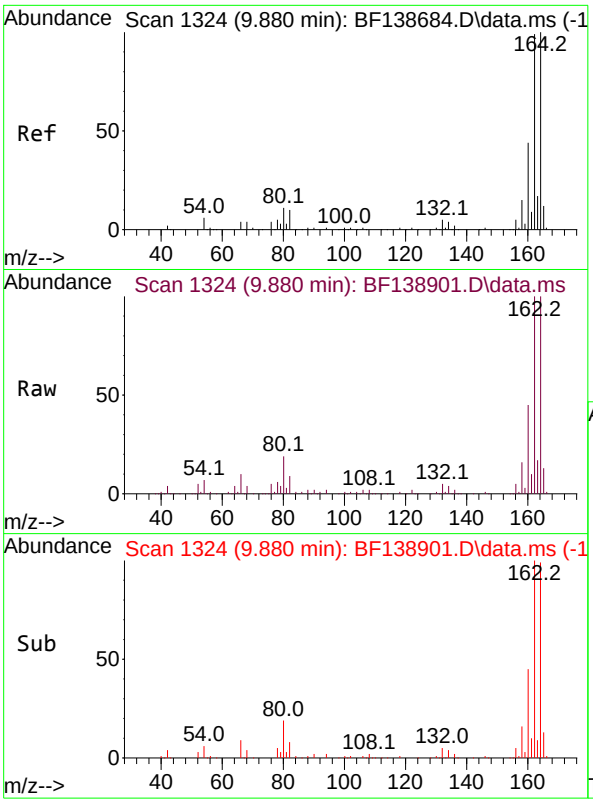



#38
1-Methylnaphthalene
Concen: 41.263 ng
RT: 8.939 min Scan# 1164
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:142 Resp: 347514

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 92.6 | 73.1 | 109.7 |

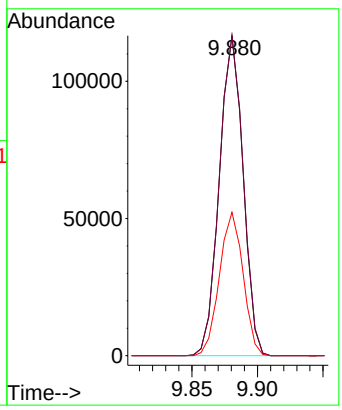





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.880 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:164 Resp: 14626

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 100.1 | 79.4 | 119.0 |
| 160 | 44.9 | 35.1 | 52.7 |




**Instrument :**
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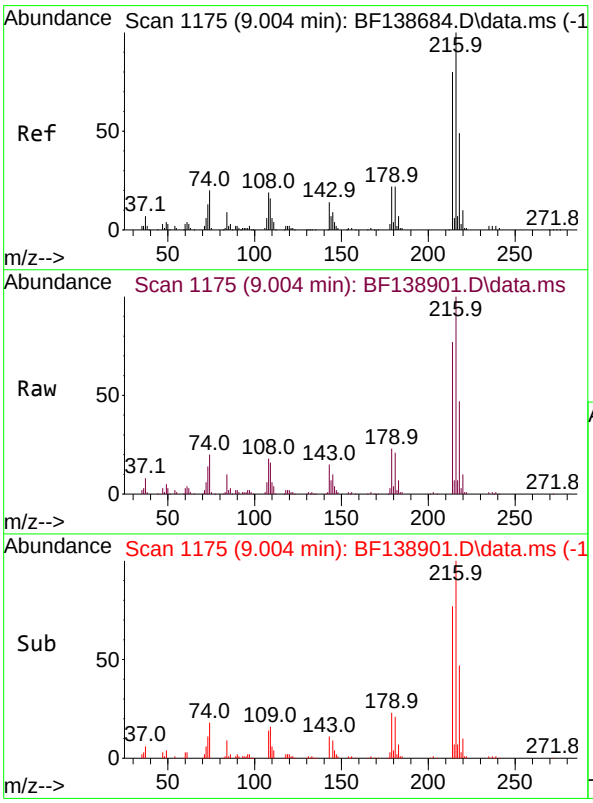
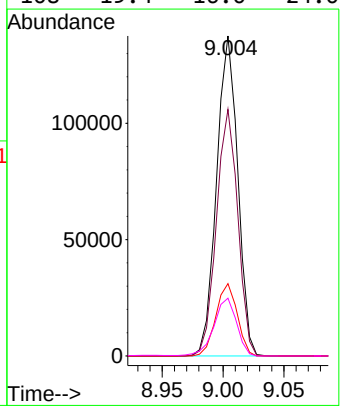
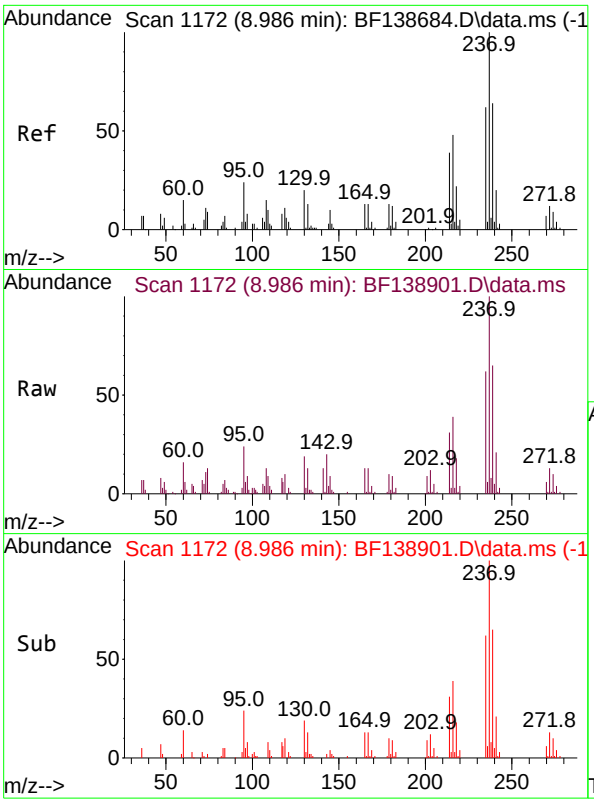



#40
1,2,4,5-Tetrachlorobenzene
Concen: 41.018 ng
RT: 9.004 min Scan# 1175
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:216 Resp: 166654

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 216 | 100 | | |
| 214 | 77.4 | 63.9 | 95.9 |
| 179 | 22.8 | 17.8 | 26.6 |
| 108 | 19.4 | 16.0 | 24.0 |

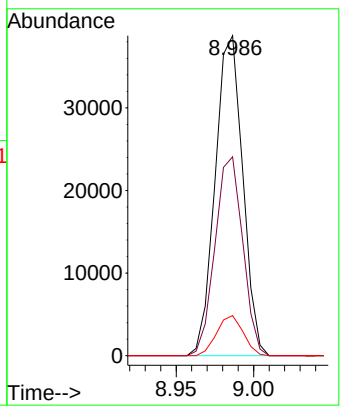





#41
Hexachlorocyclopentadiene
Concen: 47.645 ng
RT: 8.986 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:237 Resp: 4791

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 237 | 100 | | |
| 235 | 62.2 | 41.8 | 81.8 |
| 272 | 12.5 | 0.0 | 32.2 |




**Instrument :**
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**ClientSampleId :**
SSTDCCC040

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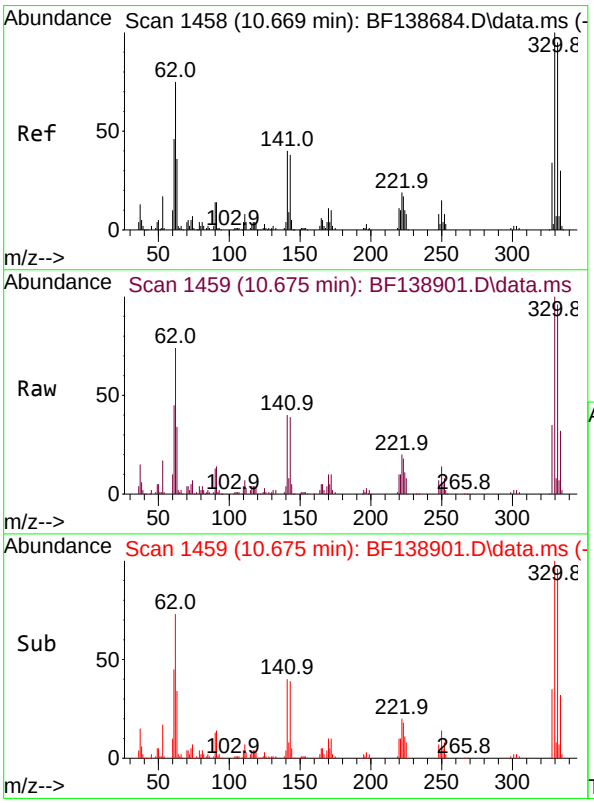
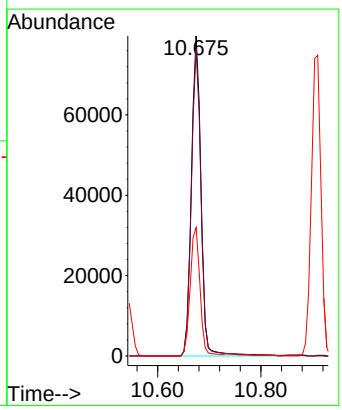
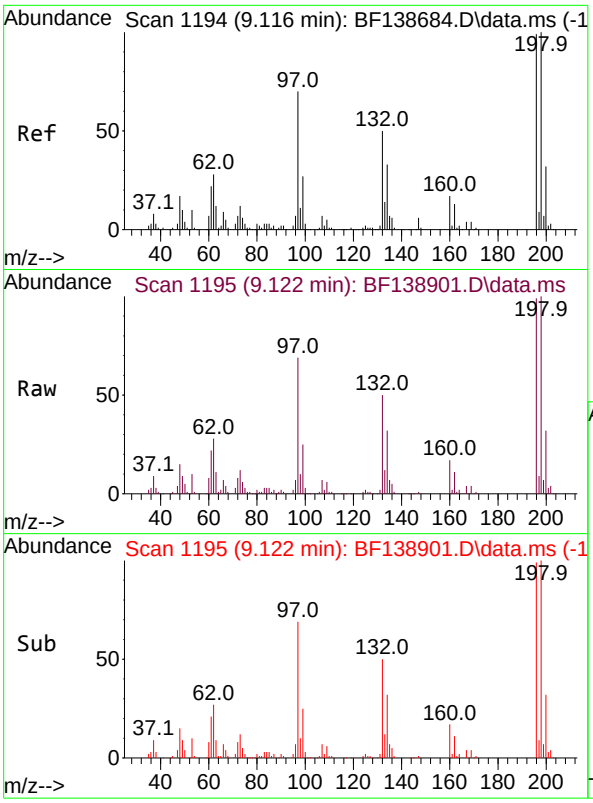



#42
2,4,6-Tribromophenol
Concen: 86.555 ng
RT: 10.675 min Scan# 1459
Delta R.T. 0.006 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:330 Resp: 103699

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 94.8 | 76.4 | 114.6 |
| 141 | 40.4 | 31.1 | 46.7 |

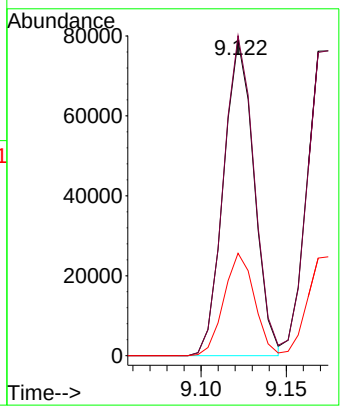





#43
2,4,6-Trichlorophenol
Concen: 39.746 ng
RT: 9.122 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:196 Resp: 9846

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 101.4 | 80.5 | 120.7 |
| 200 | 32.4 | 25.9 | 38.9 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

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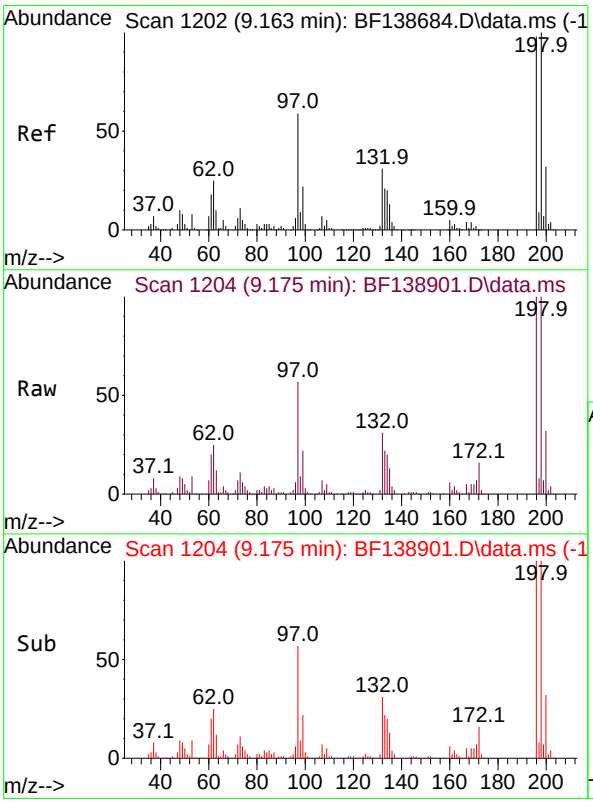
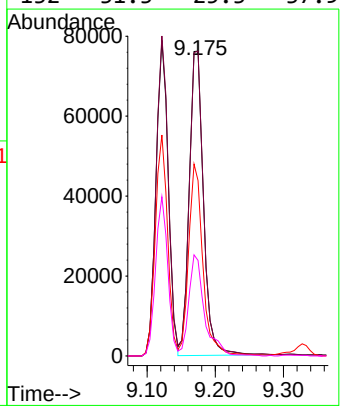
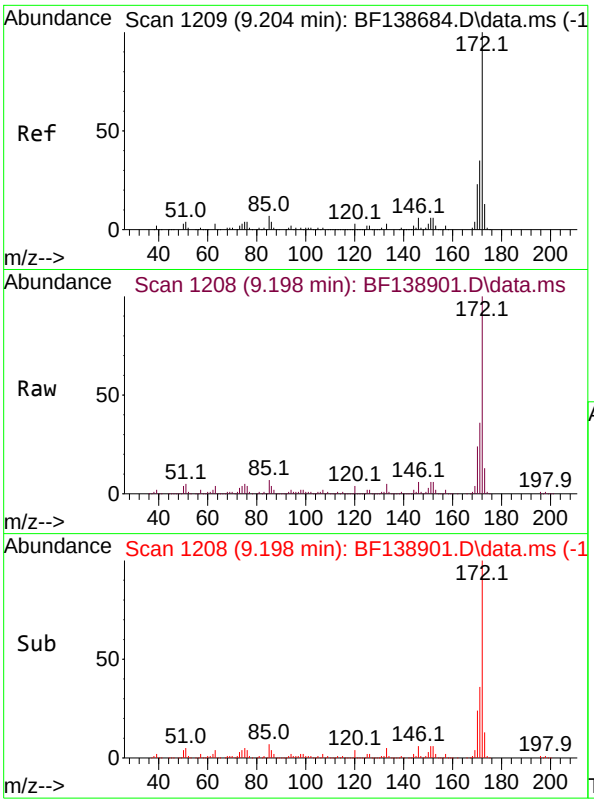



#44
2,4,5-Trichlorophenol
Concen: 40.677 ng
RT: 9.175 min Scan# 1204
Delta R.T. 0.012 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:196 Resp: 110160

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 100.0 | 81.2 | 121.8 |
| 97 | 57.5 | 47.8 | 71.6 |
| 132 | 31.3 | 25.3 | 37.9 |

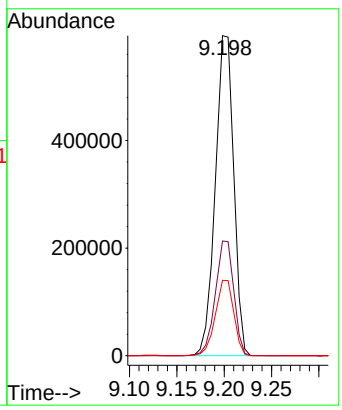





#45
2-Fluorobiphenyl
Concen: 82.684 ng
RT: 9.198 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:172 Resp: 80488

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.8 | 28.3 | 42.5 |
| 170 | 23.5 | 18.8 | 28.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

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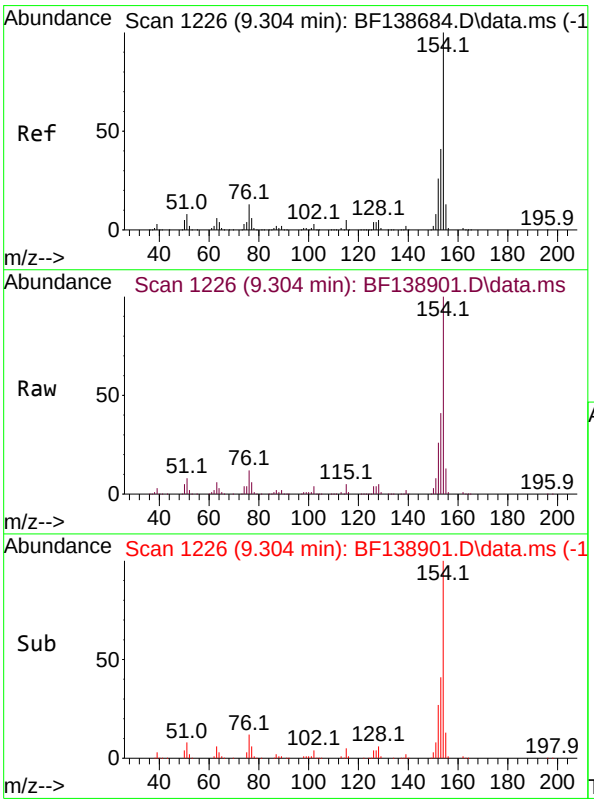
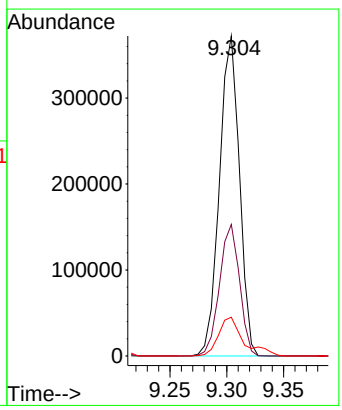
Supervised By :mohammad ahmed 08/13/2024

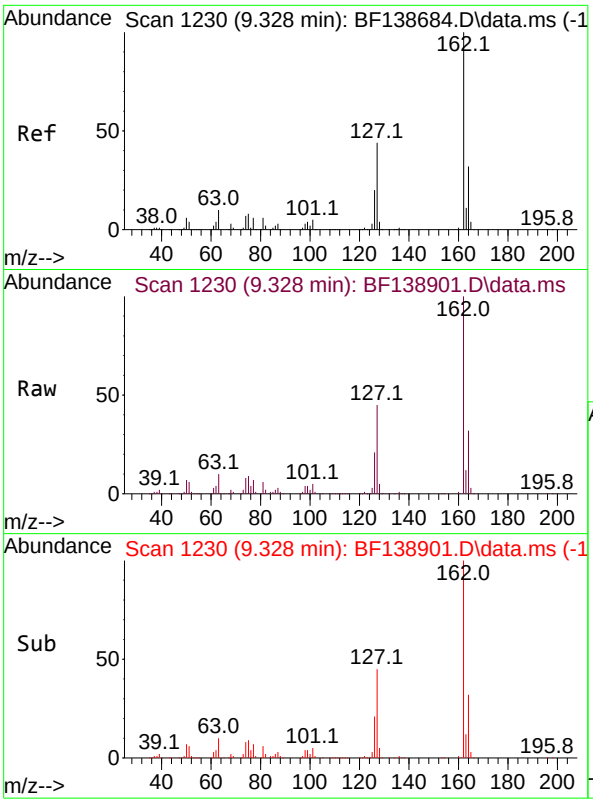



#46
1,1'-Biphenyl
Concen: 39.816 ng
RT: 9.304 min Scan# 1226
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:154 Resp: 456093

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 41.1 | 20.8 | 60.8 |
| 76 | 12.1 | 0.0 | 32.8 |

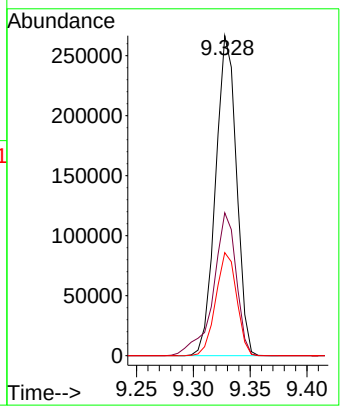





#47
2-Chloronaphthalene
Concen: 40.080 ng
RT: 9.328 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:162 Resp: 34146

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 127 | 44.7 | 35.4 | 53.2 |
| 164 | 32.2 | 25.6 | 38.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

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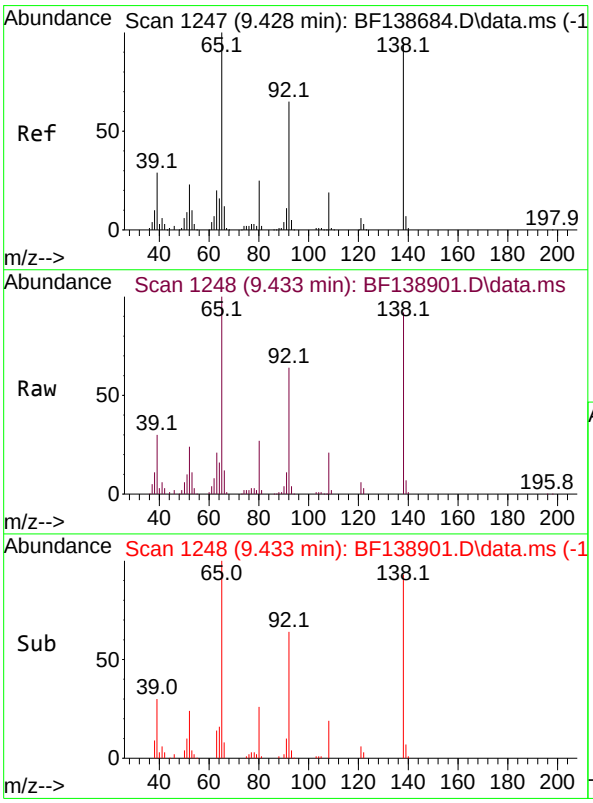
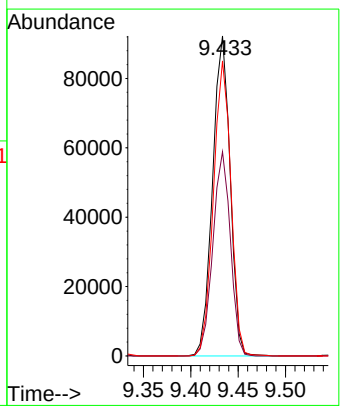
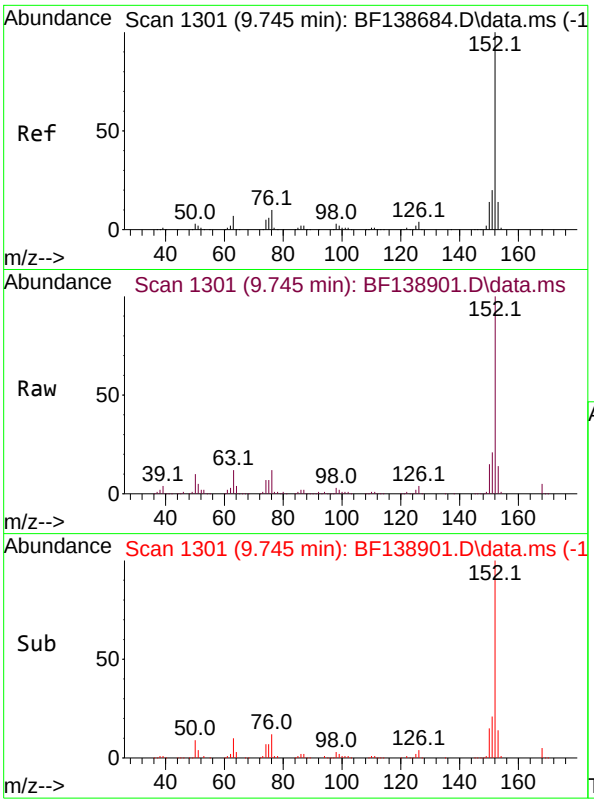



#48
2-Nitroaniline
Concen: 41.277 ng
RT: 9.433 min Scan# 1248
Delta R.T. 0.006 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion: 65 Resp: 119216

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 92 | 63.8 | 52.0 | 78.0 |
| 138 | 92.2 | 76.2 | 114.4 |

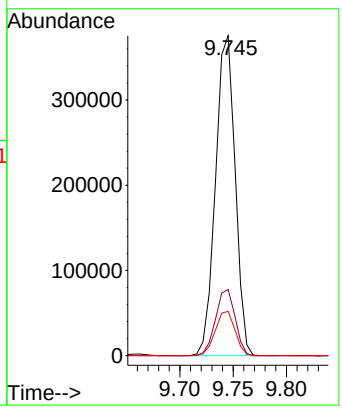





#49
Acenaphthylene
Concen: 39.744 ng
RT: 9.745 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:152 Resp: 48023

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.7 | 16.0 | 24.0 |
| 153 | 13.9 | 11.0 | 16.4 |




**Instrument :**
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**ClientSampleId :**
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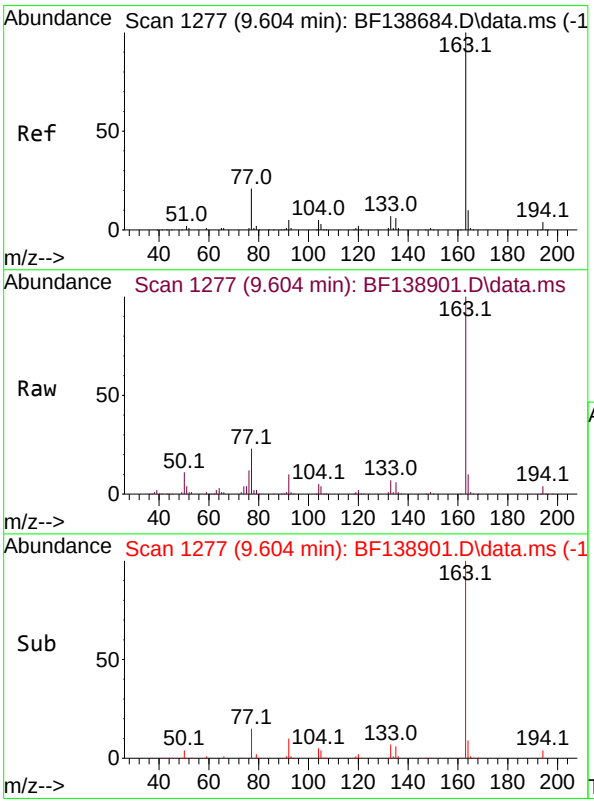
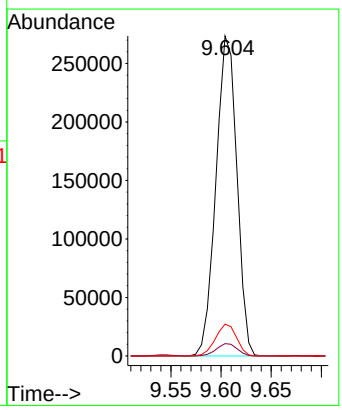
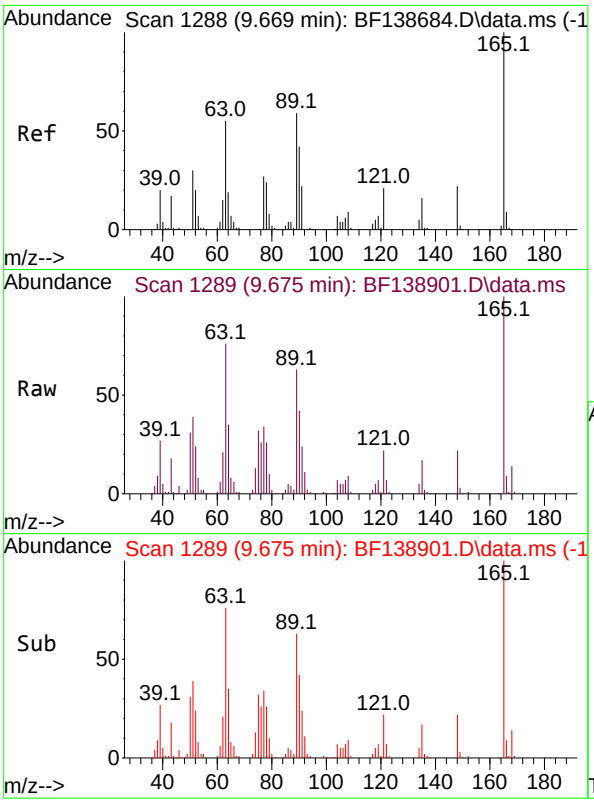



#50
Dimethylphthalate
Concen: 42.377 ng
RT: 9.604 min Scan# 1277
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:163 Resp: 396316

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 3.8 | 3.1 | 4.7 |
| 164 | 10.0 | 7.8 | 11.8 |

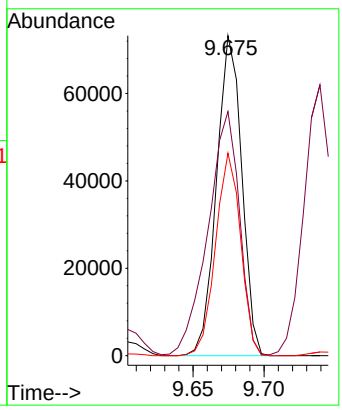





#51
2,6-Dinitrotoluene
Concen: 42.834 ng
RT: 9.675 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:165 Resp: 9040

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 76.3 | 52.0 | 78.0 |
| 89 | 63.3 | 47.0 | 70.6 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

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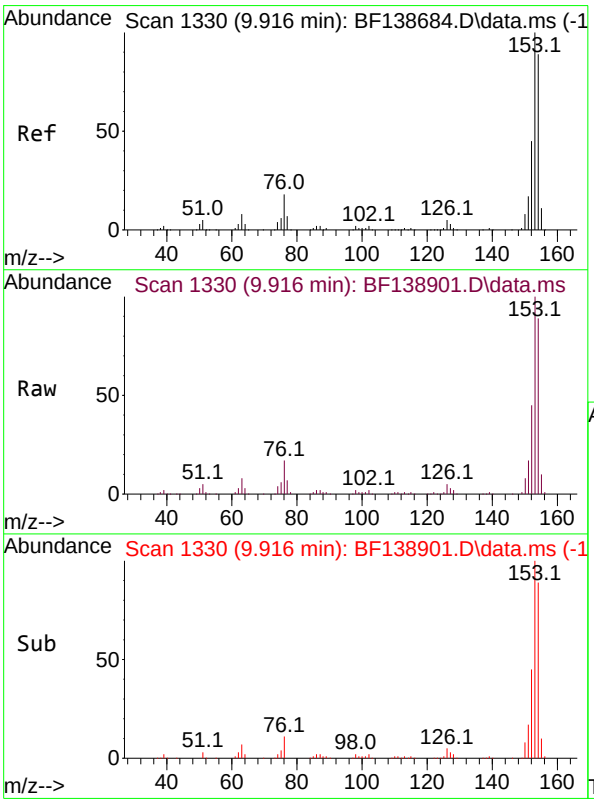
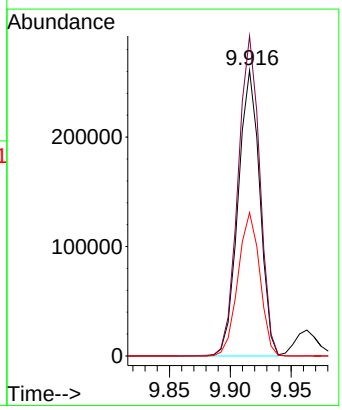
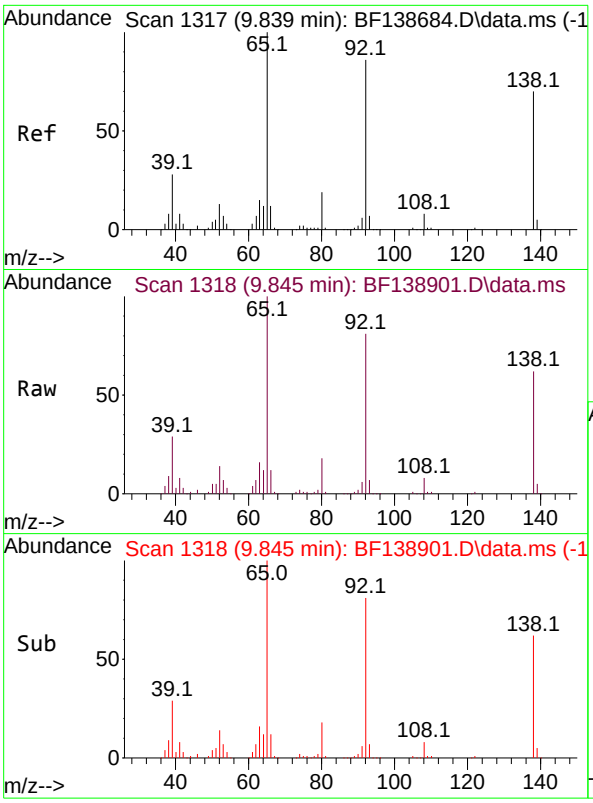



#52
Acenaphthene
Concen: 39.769 ng
RT: 9.916 min Scan# 1330
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:154 Resp: 323021

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 112.0 | 89.9 | 134.9 |
| 152 | 50.2 | 40.6 | 60.8 |

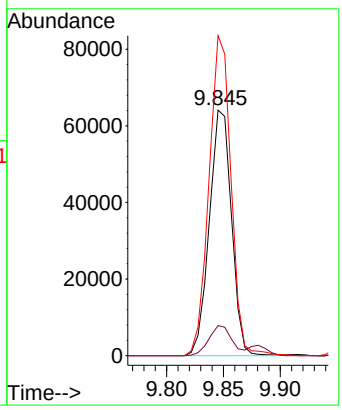





#53
3-Nitroaniline
Concen: 39.908 ng
RT: 9.845 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:138 Resp: 8707

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 108 | 12.2 | 9.1 | 13.7 |
| 92 | 130.3 | 98.7 | 148.1 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

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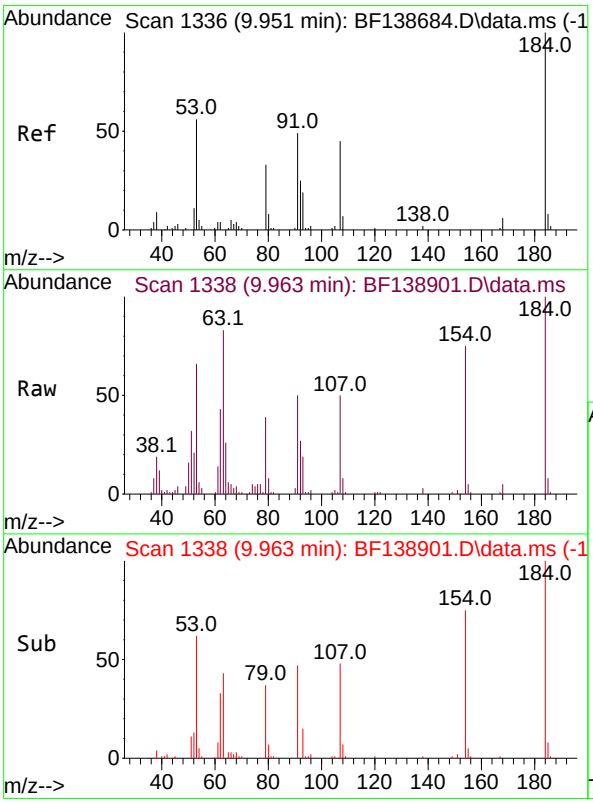
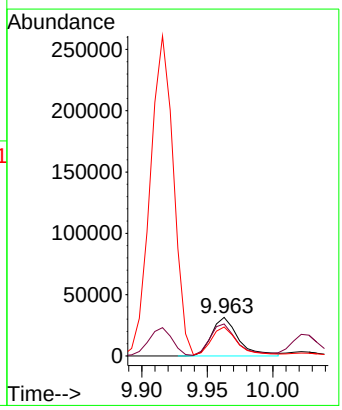
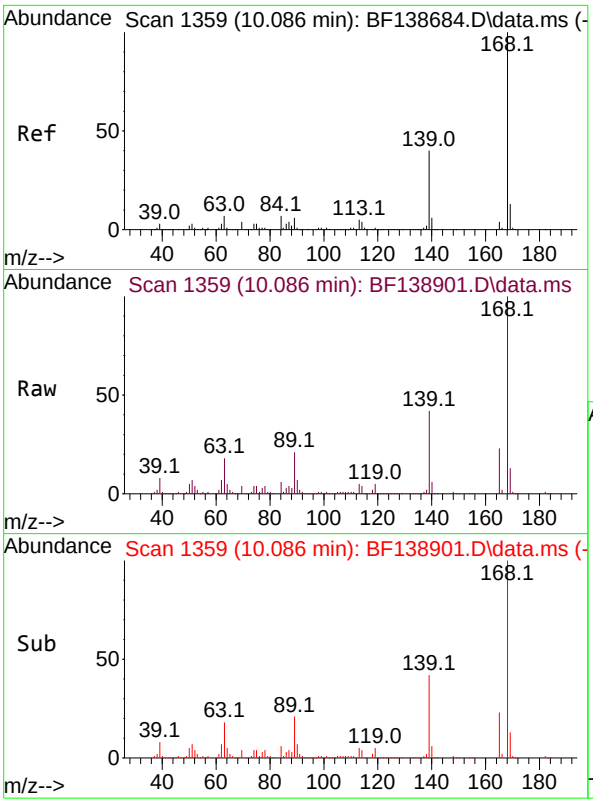



#54
2,4-Dinitrophenol
Concen: 46.071 ng
RT: 9.963 min Scan# 1338
Delta R.T. 0.012 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:184 Resp: 44762

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 63 | 83.0 | 57.5 | 86.3 |
| 154 | 75.3 | 51.7 | 77.5 |

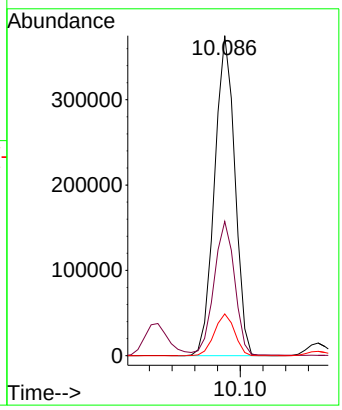





#55
Dibenzofuran
Concen: 40.561 ng
RT: 10.086 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:168 Resp: 46506

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 42.0 | 32.6 | 49.0 |
| 169 | 13.0 | 10.7 | 16.1 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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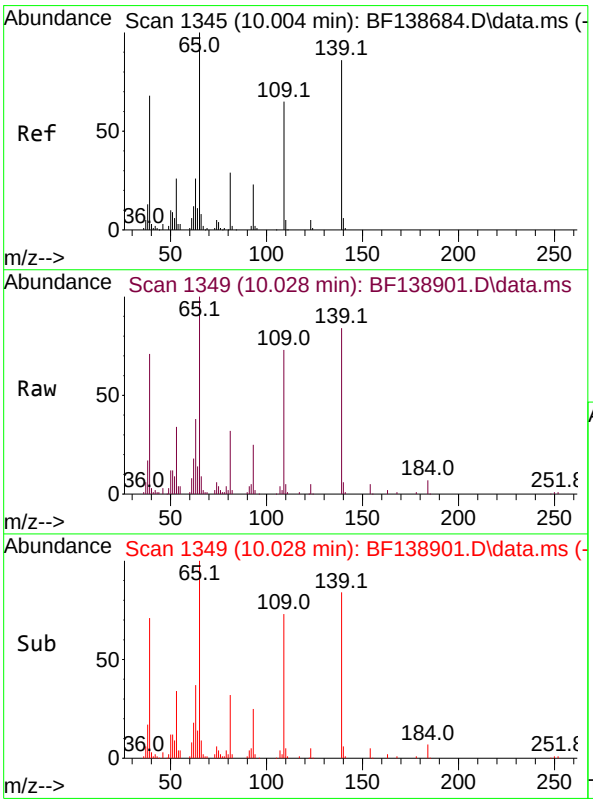
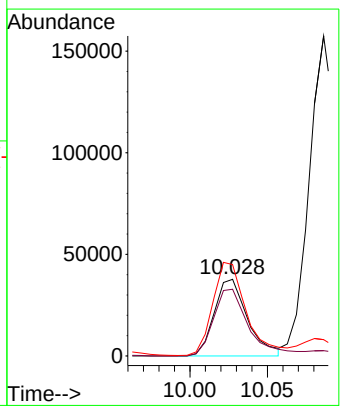
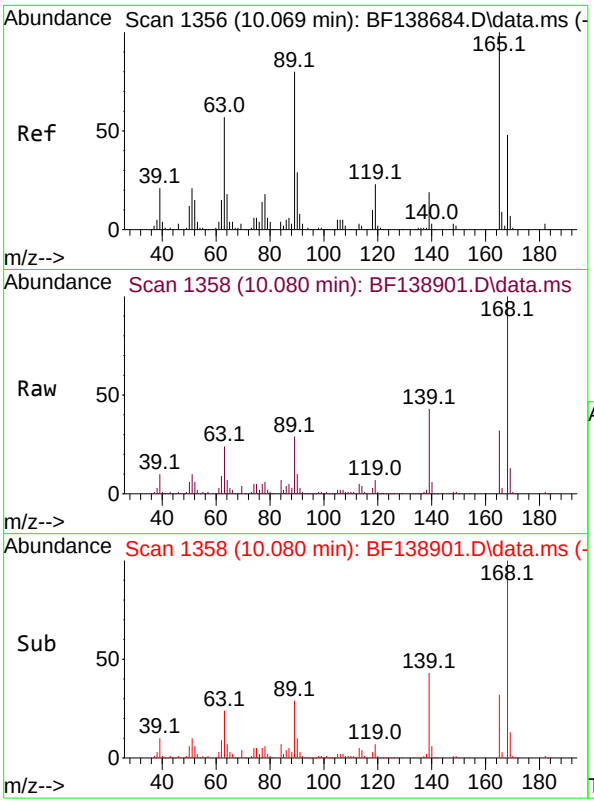



#56
4-Nitrophenol
Concen: 43.021 ng
RT: 10.028 min Scan# 1349
Delta R.T. 0.024 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:139 Resp: 56447

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 87.1 | 55.5 | 95.5 |
| 65 | 119.2 | 96.7 | 136.7 |

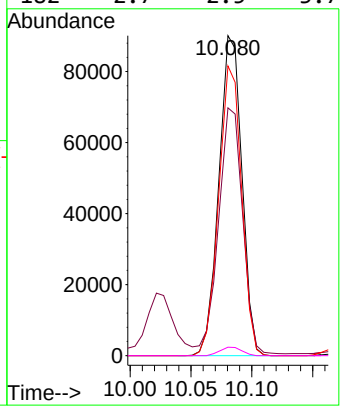





#57
2,4-Dinitrotoluene
Concen: 44.035 ng
RT: 10.080 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:165 Resp: 11857

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 77.5 | 46.3 | 69.5 |
| 89 | 90.6 | 64.2 | 96.4 |
| 182 | 2.7 | 2.5 | 3.7 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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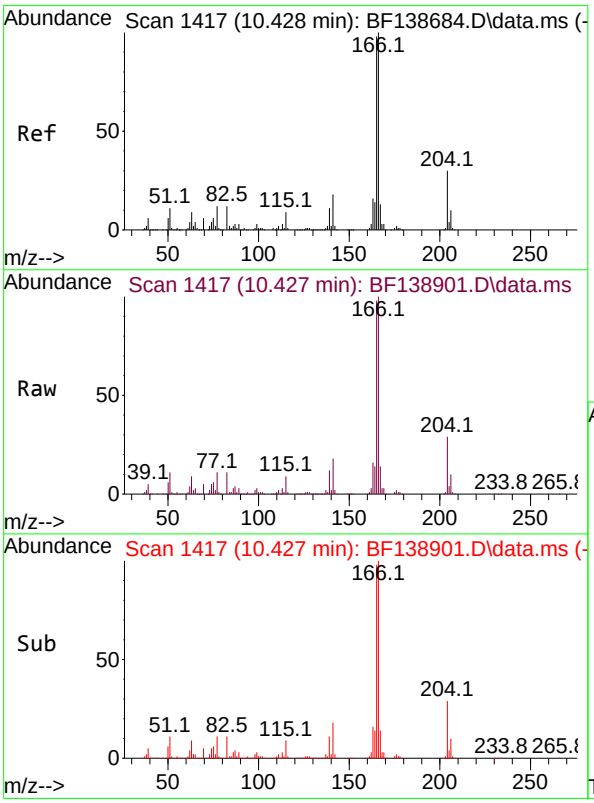
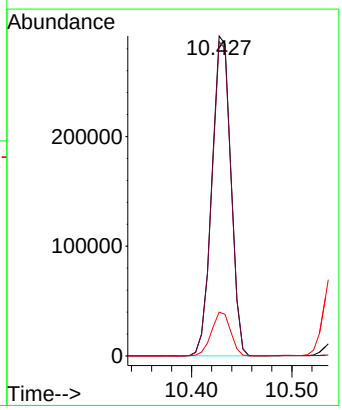
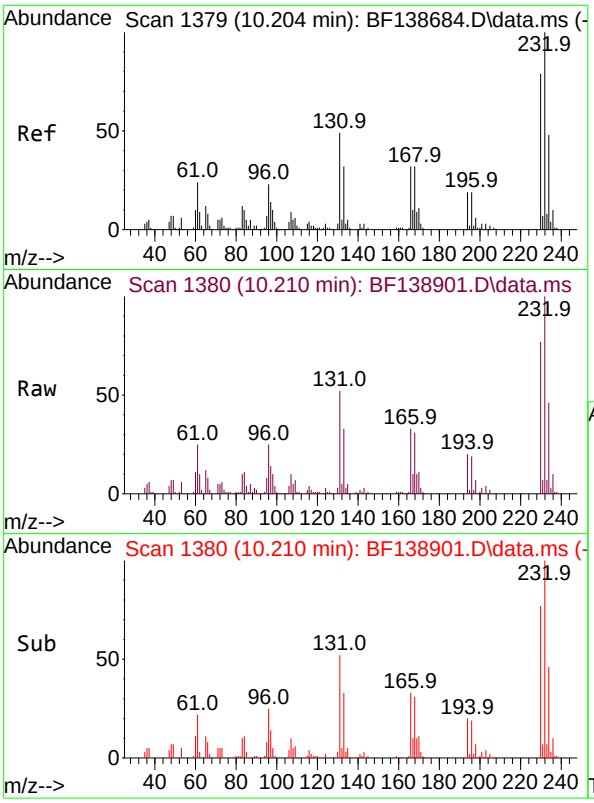



#58
Fluorene
Concen: 41.948 ng
RT: 10.427 min Scan# 1417
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:166 Resp: 383007

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 98.2 | 78.4 | 117.6 |
| 167 | 13.7 | 10.6 | 16.0 |

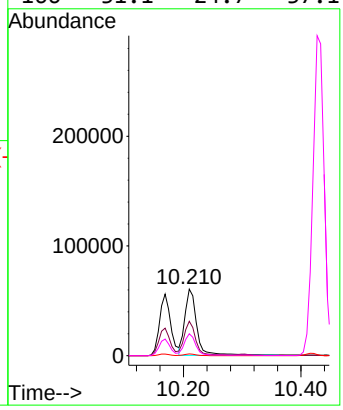





#59
2,3,4,6-Tetrachlorophenol
Concen: 41.069 ng
RT: 10.210 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:232 Resp: 8503

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 232 | 100 | | |
| 131 | 50.9 | 37.0 | 55.4 |
| 130 | 2.7 | 2.0 | 3.0 |
| 166 | 31.1 | 24.7 | 37.1 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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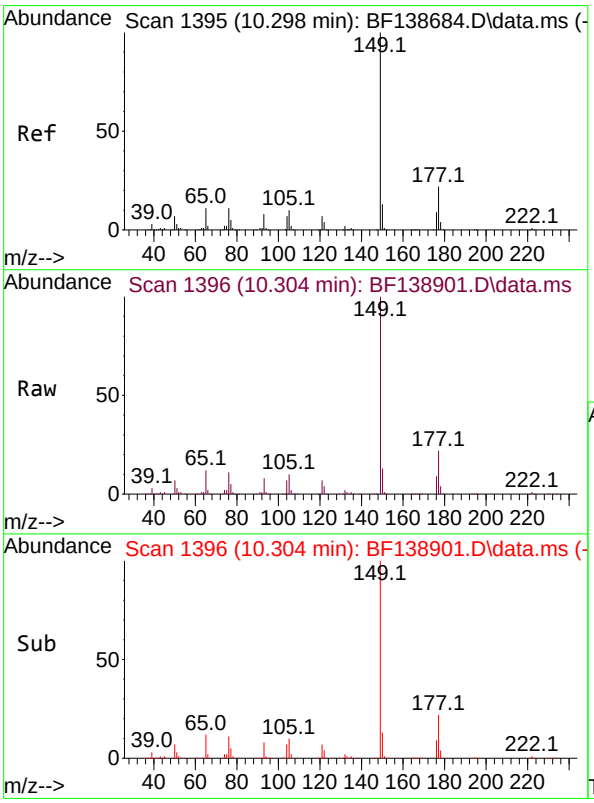
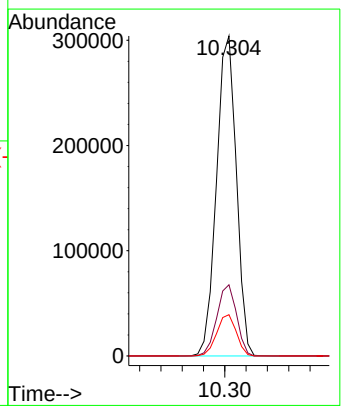
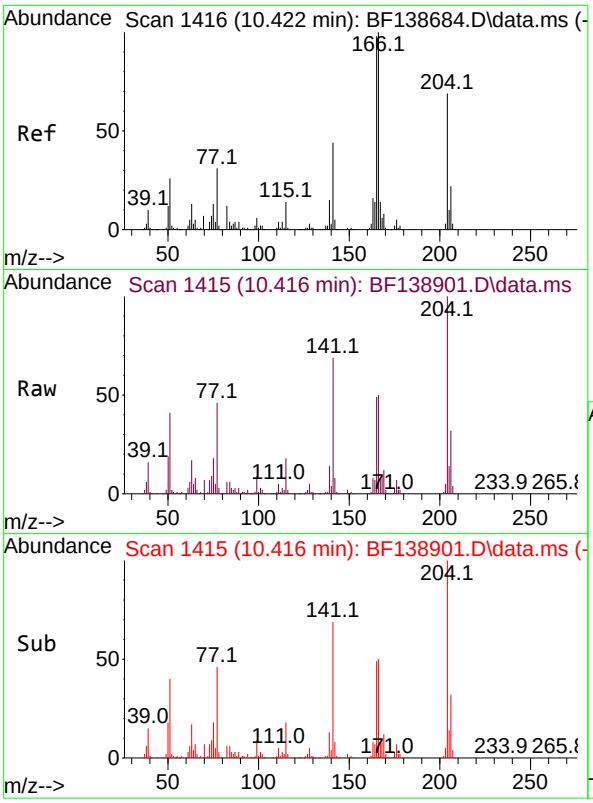



#60
Diethylphthalate
Concen: 44.254 ng
RT: 10.304 min Scan# 1396
Delta R.T. 0.006 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:149 Resp: 392422

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 177 | 22.2 | 17.8 | 26.8 |
| 150 | 12.9 | 10.1 | 15.1 |

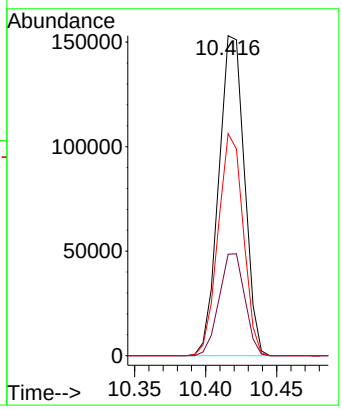





#61
4-Chlorophenyl-phenylether
Concen: 42.898 ng
RT: 10.416 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:204 Resp: 19263

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 204 | 100 | | |
| 206 | 31.7 | 26.1 | 39.1 |
| 141 | 69.4 | 51.4 | 77.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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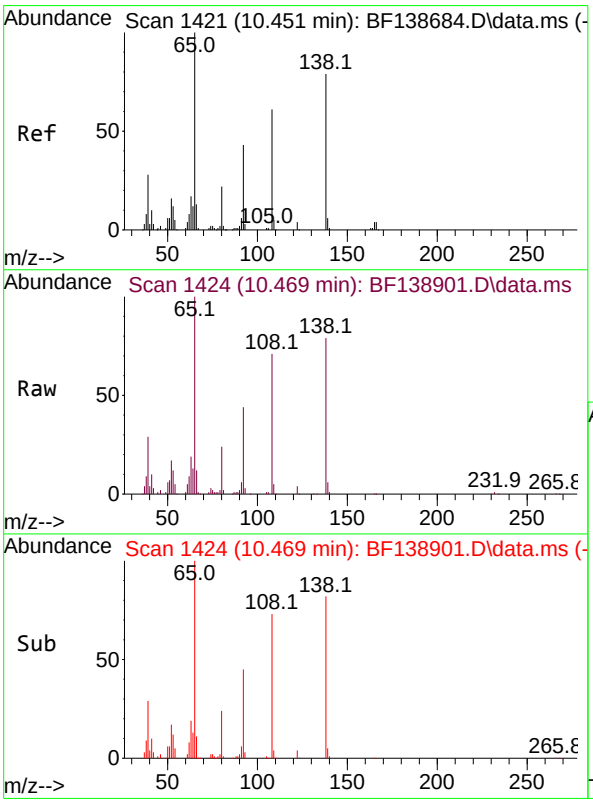
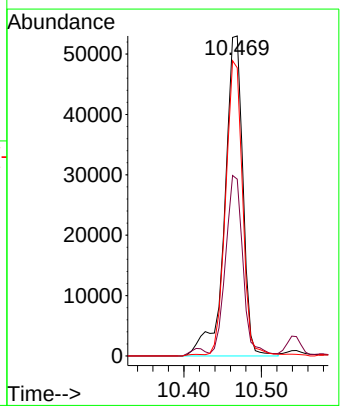
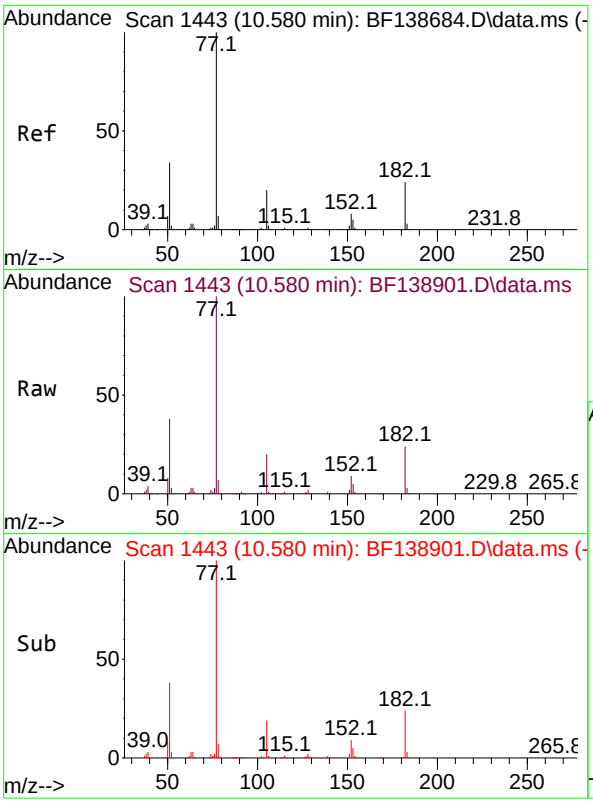



#62
4-Nitroaniline
Concen: 41.796 ng
RT: 10.469 min Scan# 1424
Delta R.T. 0.018 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:138 Resp: 86663

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 55.3 | 34.2 | 74.2 |
| 108 | 90.0 | 56.2 | 96.2 |

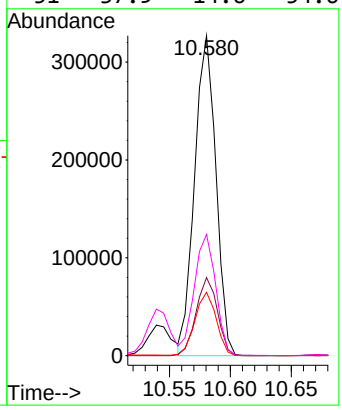





#63
Azobenzene
Concen: 40.554 ng
RT: 10.580 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion: 77 Resp: 39884

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 182 | 24.4 | 3.4 | 43.4 |
| 105 | 19.8 | 0.2 | 40.2 |
| 51 | 37.9 | 14.6 | 54.6 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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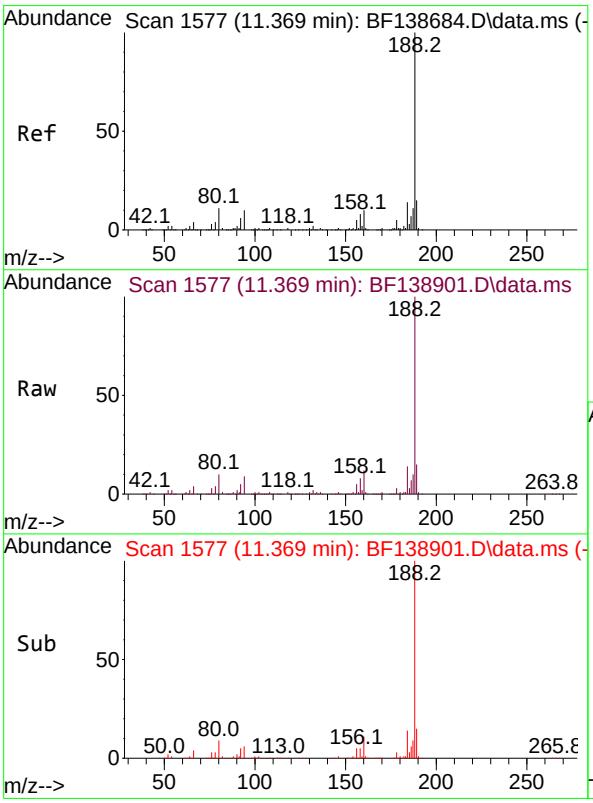
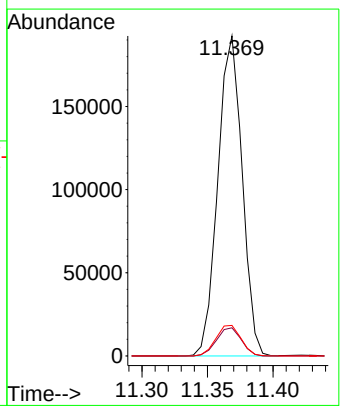
Supervised By :mohammad ahmed 08/13/2024

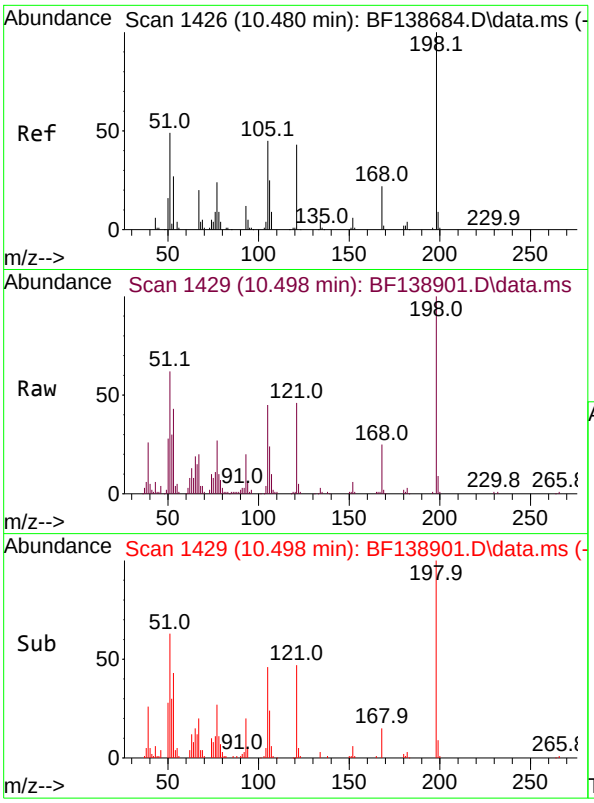



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.369 min Scan# 1577
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:188 Resp: 247933

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 8.8 | 7.6 | 11.4 |
| 80 | 9.6 | 8.6 | 12.8 |






#65
4,6-Dinitro-2-methylphenol
Concen: 42.064 ng
RT: 10.498 min Scan# 14
Delta R.T. 0.018 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:198 Resp: 6362

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 61.5 | 39.9 | 79.9 |
| 105 | 44.6 | 26.1 | 66.1 |

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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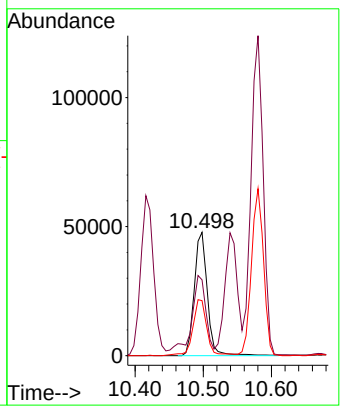
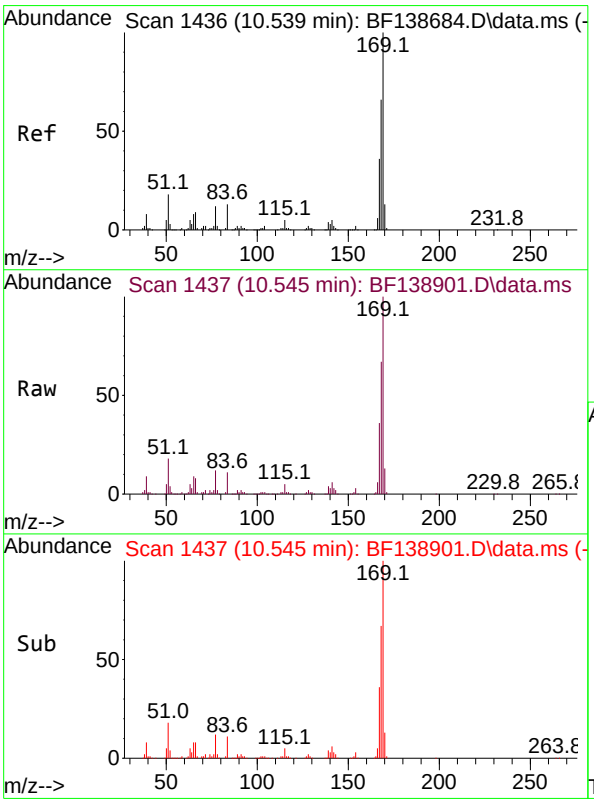
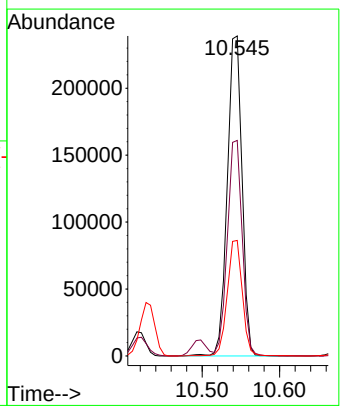


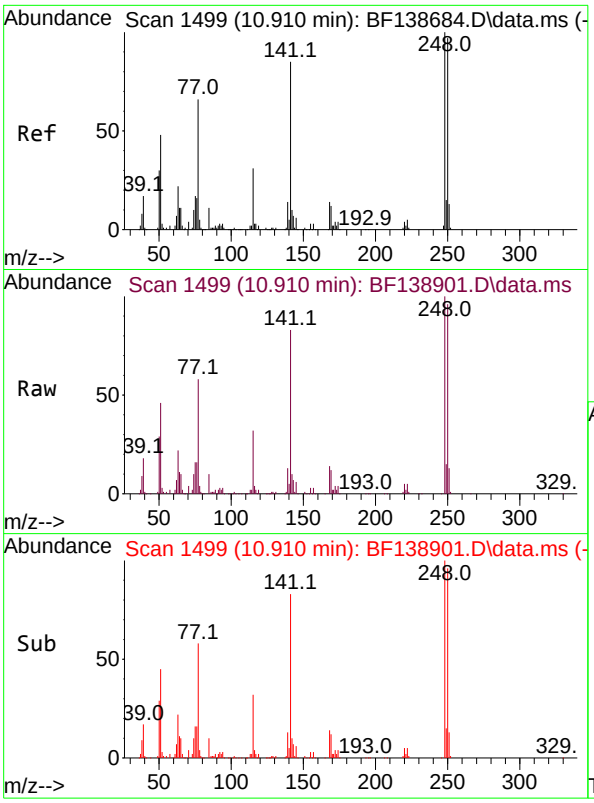




#66
n-Nitrosodiphenylamine
Concen: 40.760 ng
RT: 10.545 min Scan# 1437
Delta R.T. 0.006 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:169 Resp: 315882

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 67.3 | 53.0 | 79.6 |
| 167 | 36.1 | 29.0 | 43.6 |






#67
4-Bromophenyl-phenylether
Concen: 41.631 ng
RT: 10.910 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:248 Resp: 11175

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 95.8 | 77.7 | 116.5 |
| 141 | 82.8 | 68.0 | 102.0 |

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

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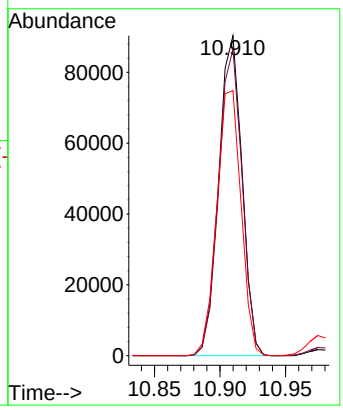
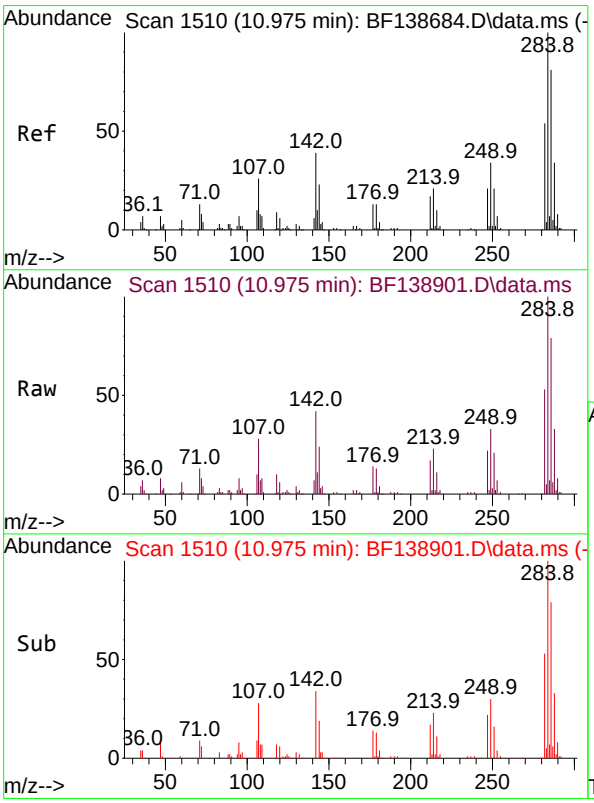
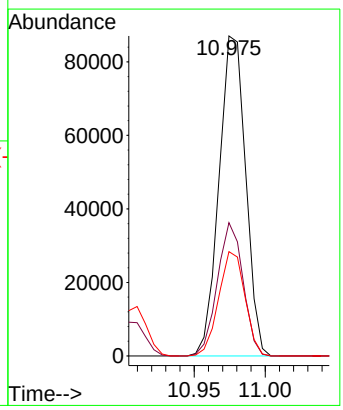


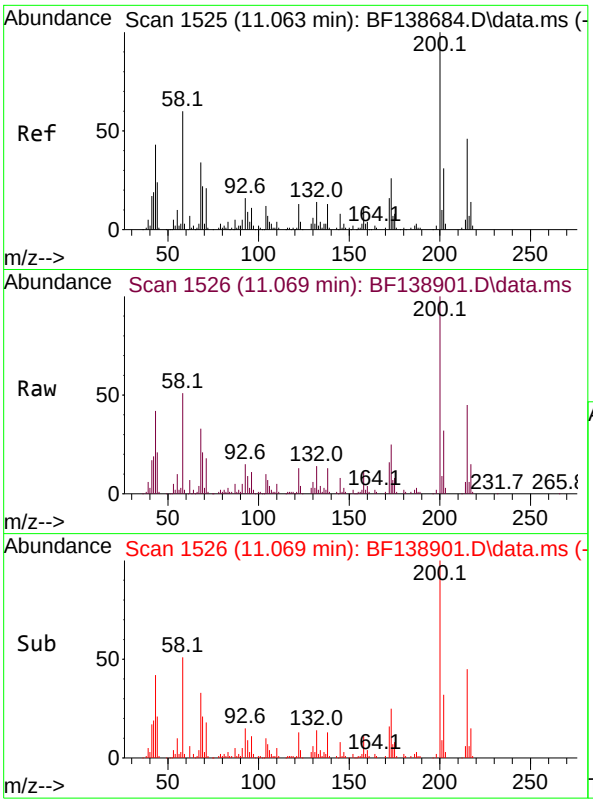




#68
Hexachlorobenzene
Concen: 41.012 ng
RT: 10.975 min Scan# 1510
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:284 Resp: 113668

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 41.6 | 31.3 | 46.9 |
| 249 | 32.6 | 27.2 | 40.8 |

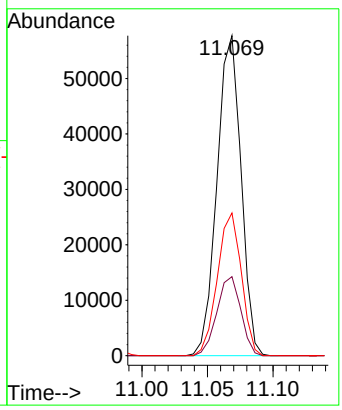





#69
Atrazine
Concen: 36.784 ng
RT: 11.069 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:200 Resp: 7354

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 24.7 | 6.0 | 46.0 |
| 215 | 44.6 | 26.1 | 66.1 |




**Instrument :**
BNA_F
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SSTDCCC040

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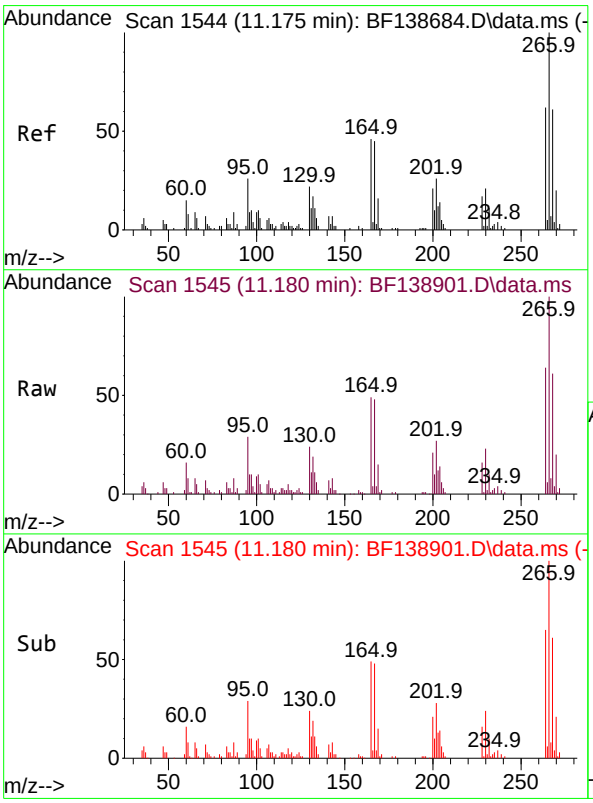
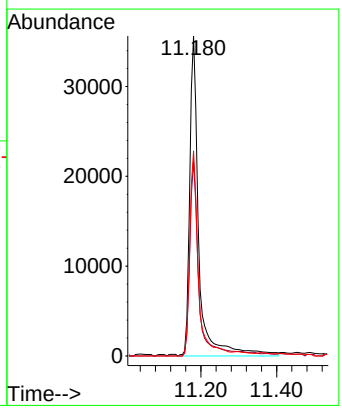
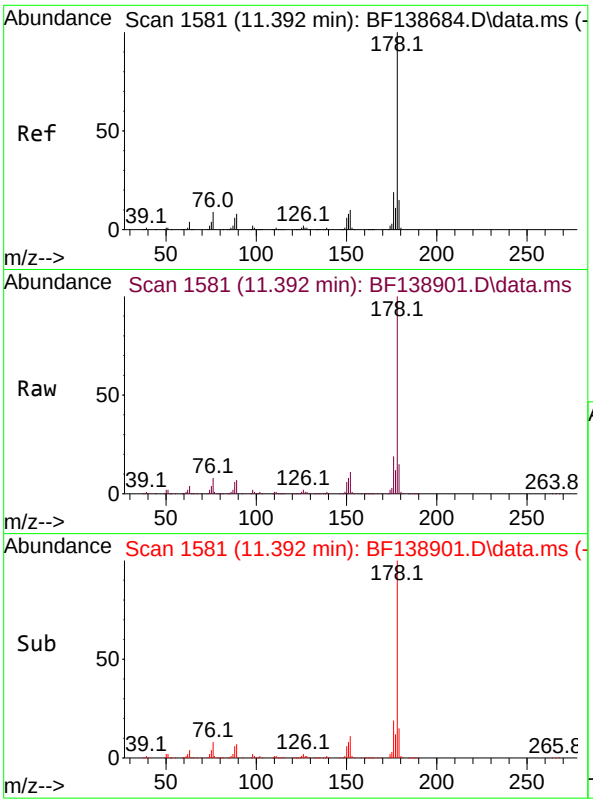



#70
Pentachlorophenol
Concen: 48.183 ng
RT: 11.180 min Scan# 1545
Delta R.T. 0.005 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:266 Resp: 60194

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 268 | 60.9 | 49.2 | 73.8 |
| 264 | 64.1 | 49.8 | 74.6 |

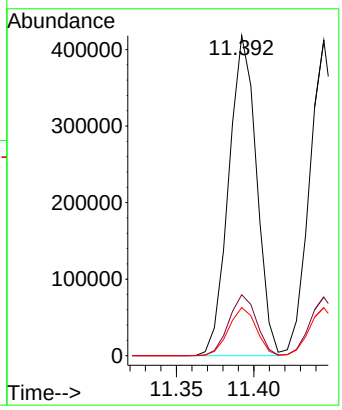





#71
Phenanthrene
Concen: 40.816 ng
RT: 11.392 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:178 Resp: 52108

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.0 | 15.4 | 23.0 |
| 179 | 15.1 | 12.2 | 18.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

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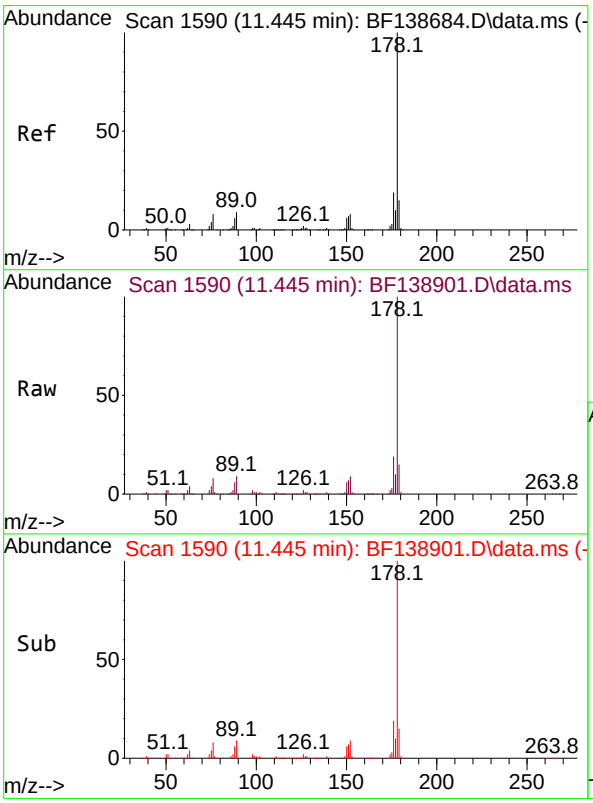
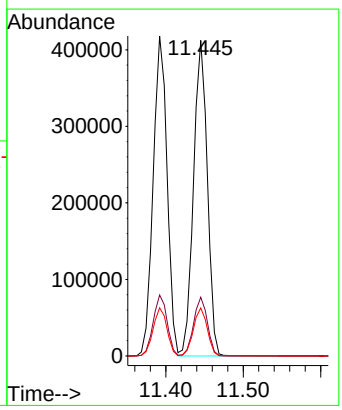
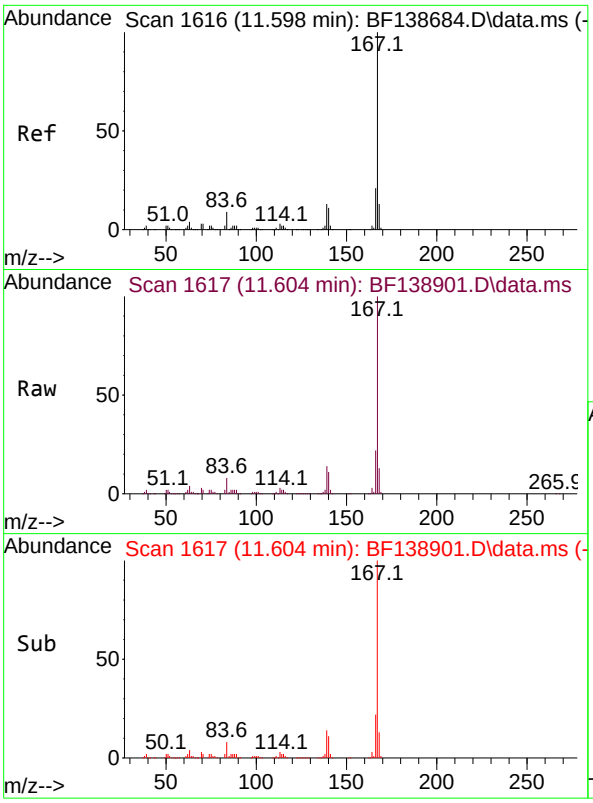



#72
Anthracene
Concen: 40.562 ng
RT: 11.445 min Scan# 1590
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:178 Resp: 510139

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.6 | 14.9 | 22.3 |
| 179 | 15.2 | 12.4 | 18.6 |

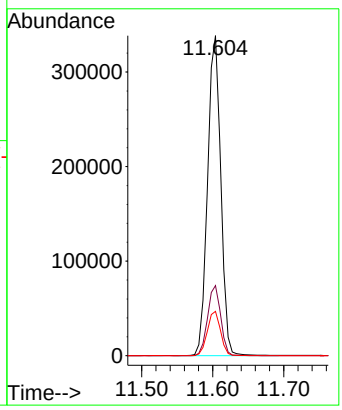





#73
Carbazole
Concen: 40.357 ng
RT: 11.604 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:167 Resp: 43789

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 21.9 | 17.2 | 25.8 |
| 139 | 13.8 | 10.6 | 16.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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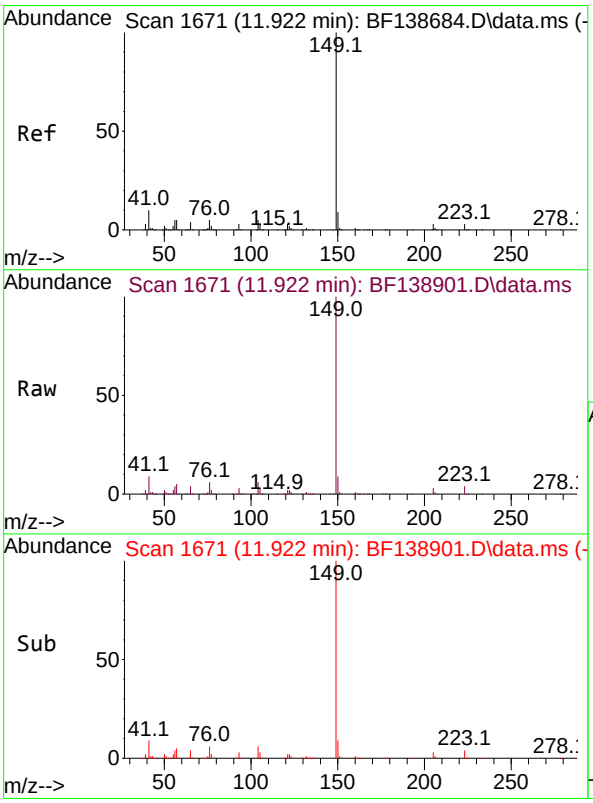
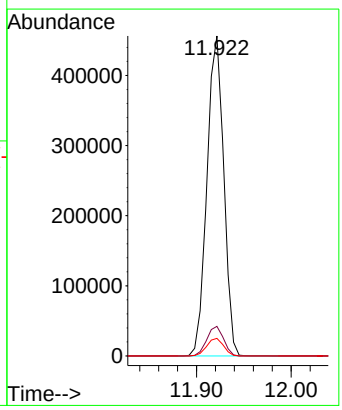
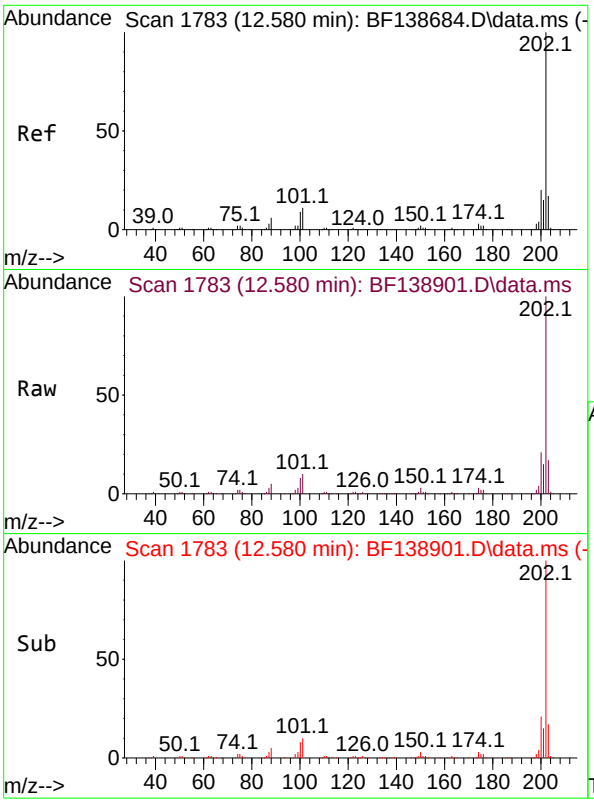



#74
Di-n-butylphthalate
Concen: 45.963 ng
RT: 11.922 min Scan# 1671
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:149 Resp: 560651

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 9.2 | 7.4 | 11.0 |
| 104 | 5.5 | 4.1 | 6.1 |

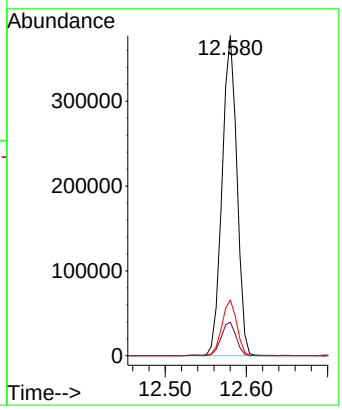





#75
Fluoranthene
Concen: 40.307 ng
RT: 12.580 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:202 Resp: 48039

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 10.4 | 0.0 | 31.2 |
| 203 | 17.3 | 0.0 | 37.3 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

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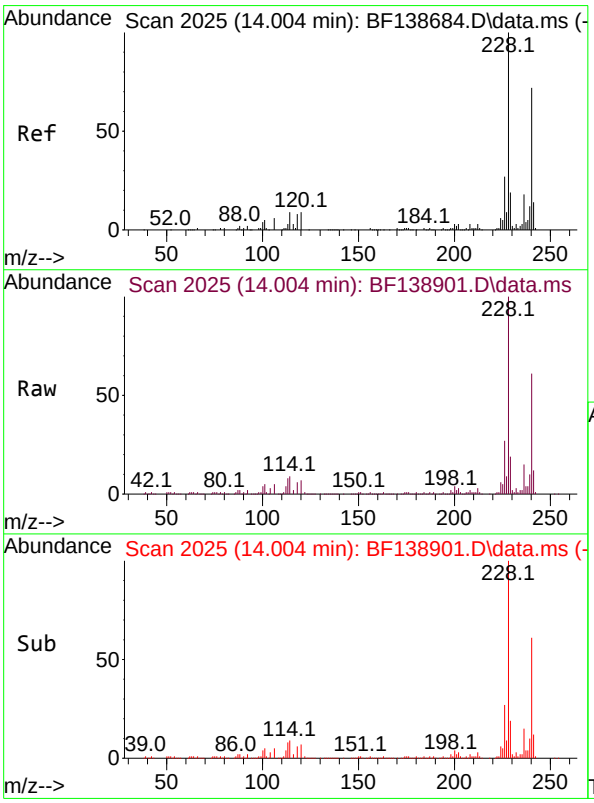
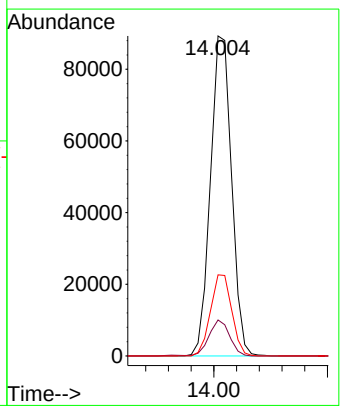
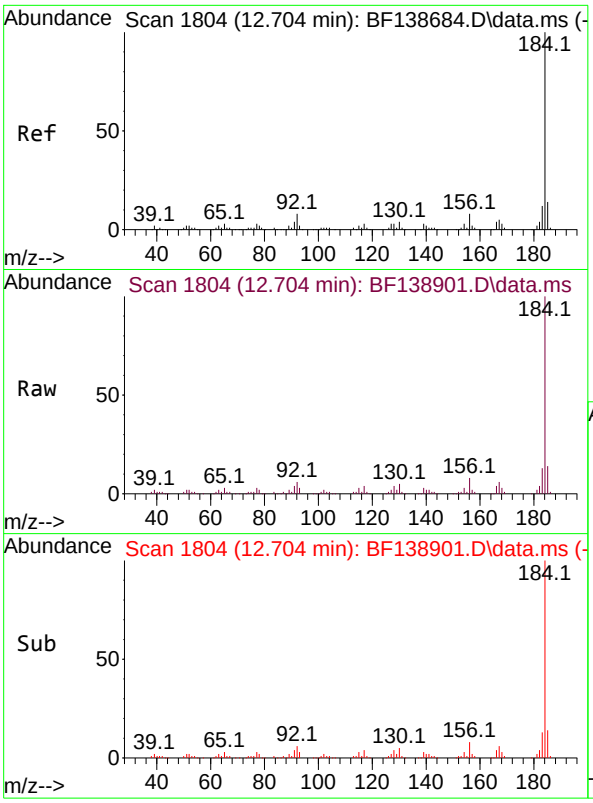



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.004 min Scan# 2025
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:240 Resp: 115525

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 11.3 | 10.2 | 15.4 |
| 236 | 25.3 | 19.8 | 29.8 |

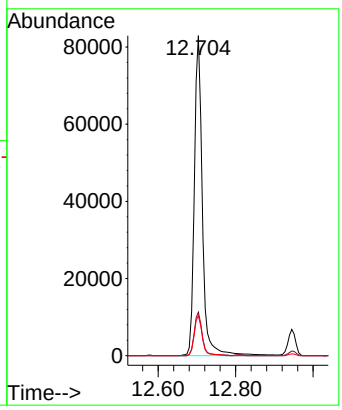





#77
Benzidine
Concen: 43.325 ng
RT: 12.704 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:184 Resp: 11971

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 185 | 13.6 | 11.1 | 16.7 |
| 183 | 12.5 | 9.6 | 14.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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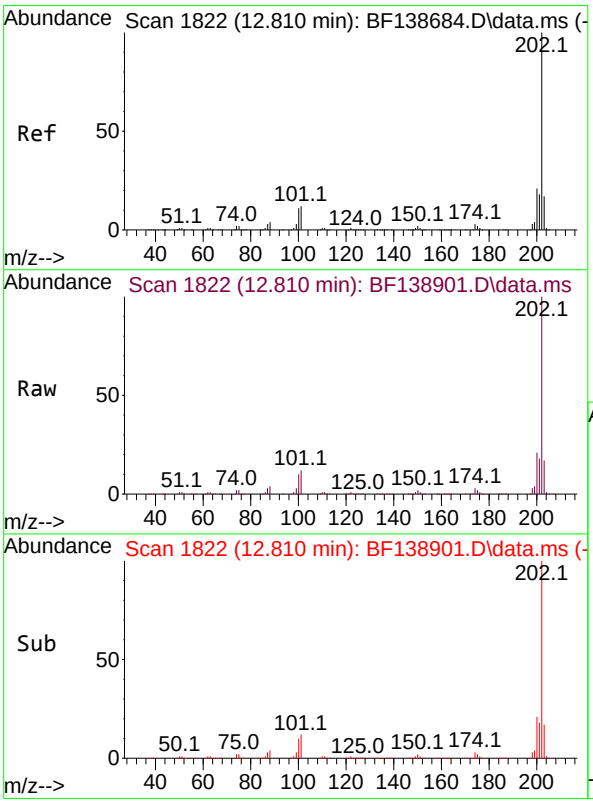
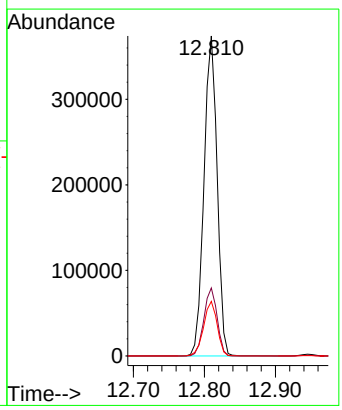
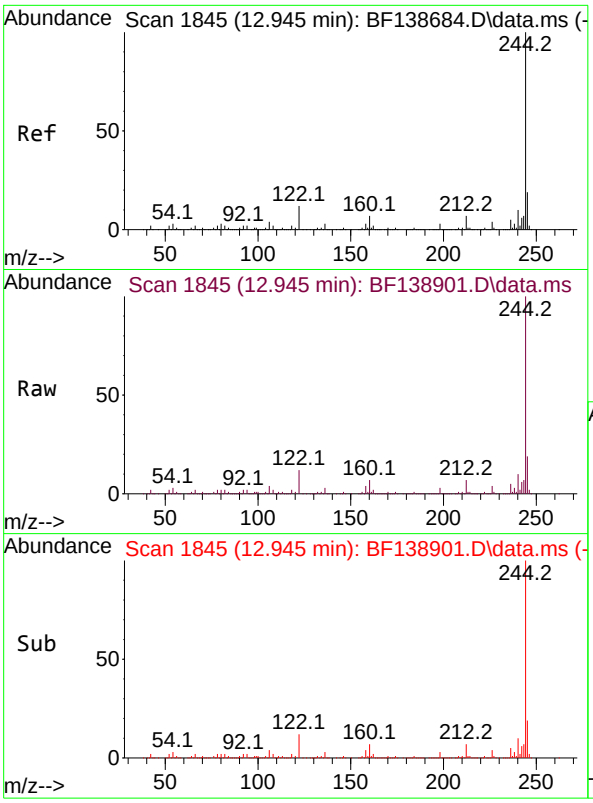



#78
Pyrene
Concen: 44.353 ng
RT: 12.810 min Scan# 1822
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:202 Resp: 482435

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.2 | 16.8 | 25.2 |
| 203 | 17.1 | 13.8 | 20.6 |

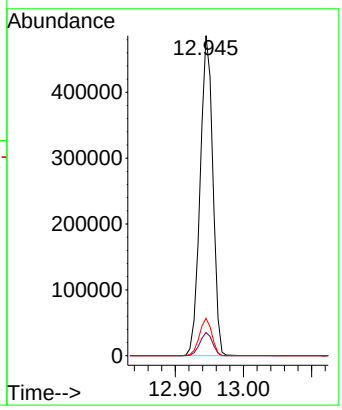





#79
Terphenyl-d14
Concen: 91.112 ng
RT: 12.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:244 Resp: 62867

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.2 | 5.4 | 8.2 |
| 122 | 11.6 | 9.6 | 14.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

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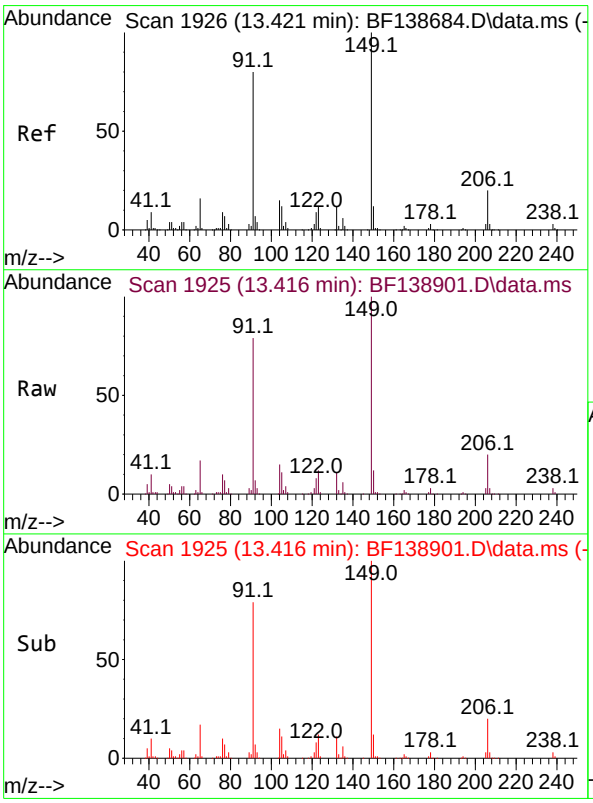
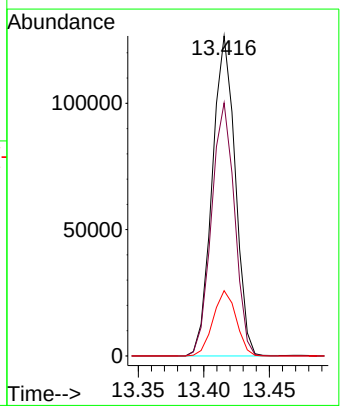
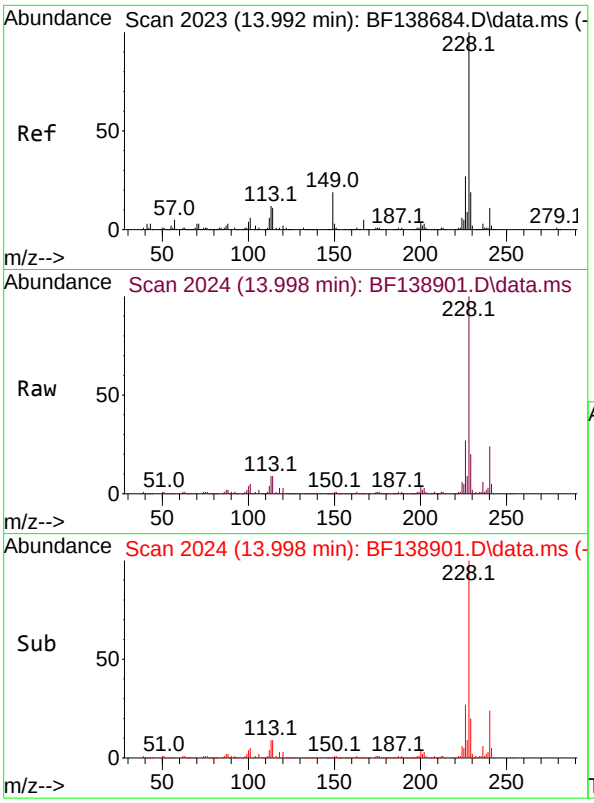



#80
Butylbenzylphthalate
Concen: 44.312 ng
RT: 13.416 min Scan# 1925
Delta R.T. -0.006 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:149 Resp: 154344

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 91 | 79.1 | 63.7 | 95.5 |
| 206 | 20.4 | 16.2 | 24.2 |

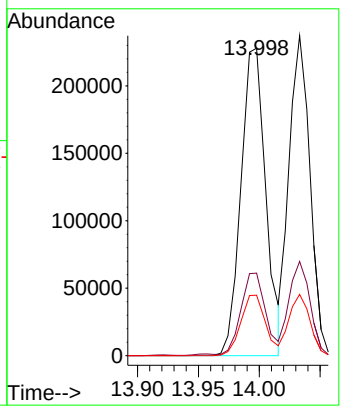





#81
Benzo(a)anthracene
Concen: 40.721 ng
RT: 13.998 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:228 Resp: 32395

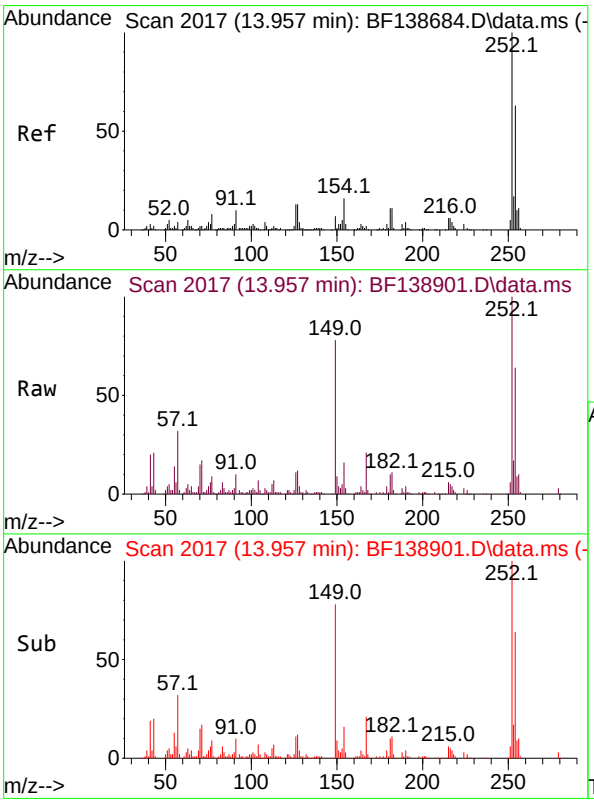
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 26.8 | 22.1 | 33.1 |
| 229 | 19.7 | 15.4 | 23.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations APPROVED**

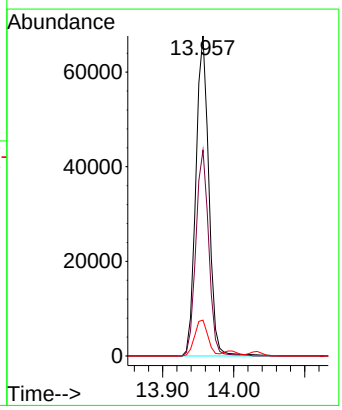
Reviewed By :Jagrut Upadhyay 08/12/2024
Supervised By :mohammad ahmed 08/13/2024

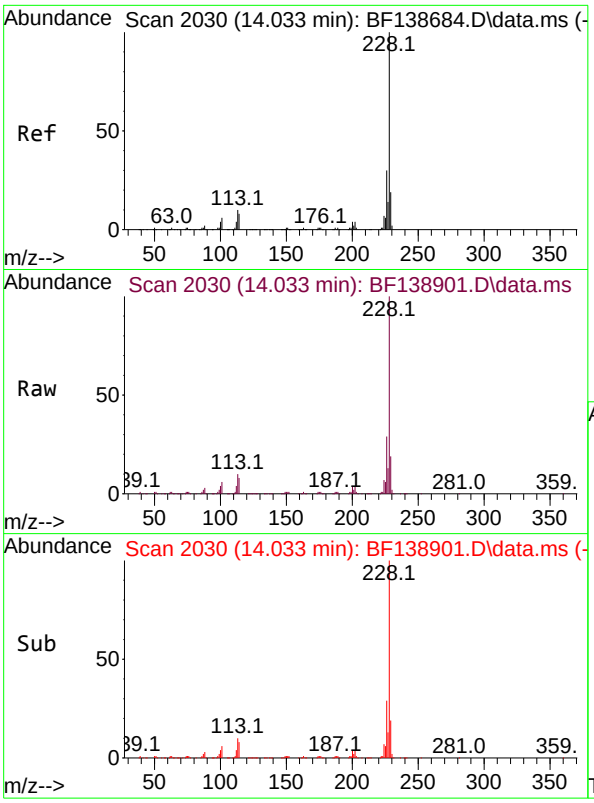



#82
3,3'-Dichlorobenzidine
Concen: 42.286 ng
RT: 13.957 min Scan# 2017
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:252 Resp: 86086

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 64.3 | 50.8 | 76.2 |
| 126 | 11.2 | 10.2 | 15.2 |

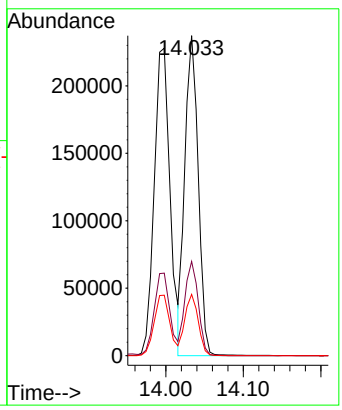





#83
Chrysene
Concen: 39.786 ng
RT: 14.033 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:228 Resp: 28555

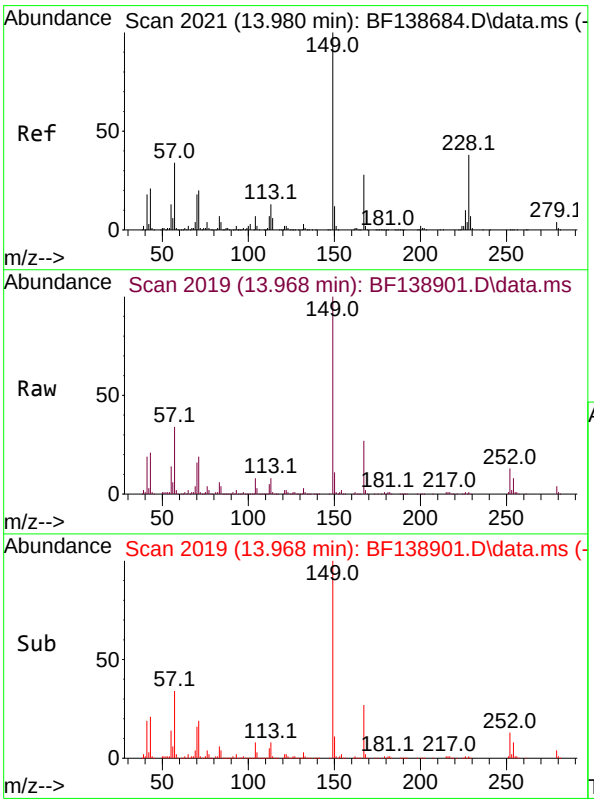
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.4 | 23.7 | 35.5 |
| 229 | 19.2 | 15.0 | 22.6 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
**APPROVED**

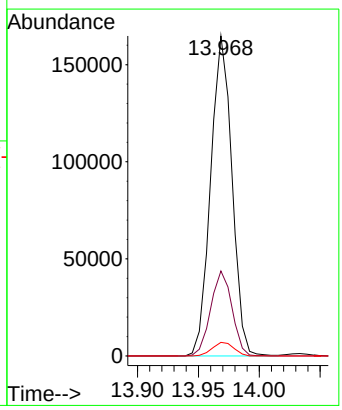
Reviewed By :Jagrut Upadhyay 08/12/2024
Supervised By :mohammad ahmed 08/13/2024

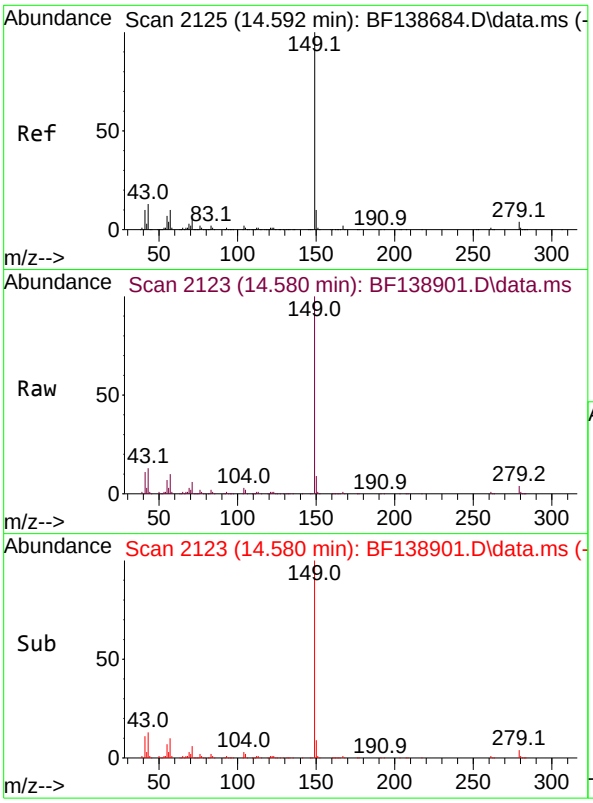



#84
Bis(2-ethylhexyl)phthalate
Concen: 39.440 ng
RT: 13.968 min Scan# 2019
Delta R.T. -0.012 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:149 Resp: 201163

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.6 | 22.2 | 33.4 |
| 279 | 4.2 | 3.4 | 5.0 |

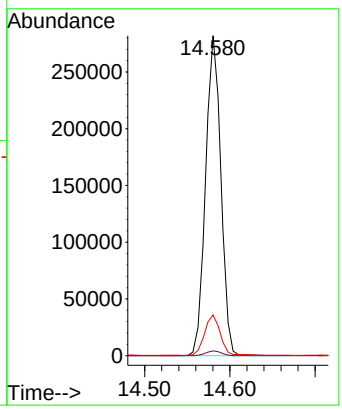





#85
Di-n-octyl phthalate
Concen: 37.255 ng
RT: 14.580 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:149 Resp: 35156

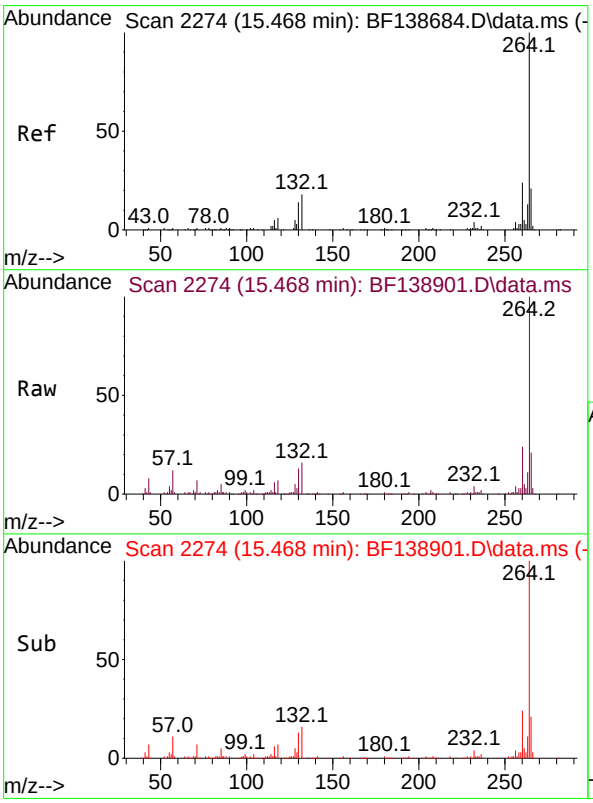
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 1.5 | 1.4 | 2.0 |
| 43 | 12.9 | 10.4 | 15.6 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations APPROVED**

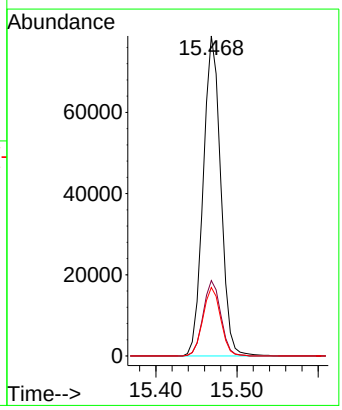
Reviewed By :Jagrut Upadhyay 08/12/2024
Supervised By :mohammad ahmed 08/13/2024

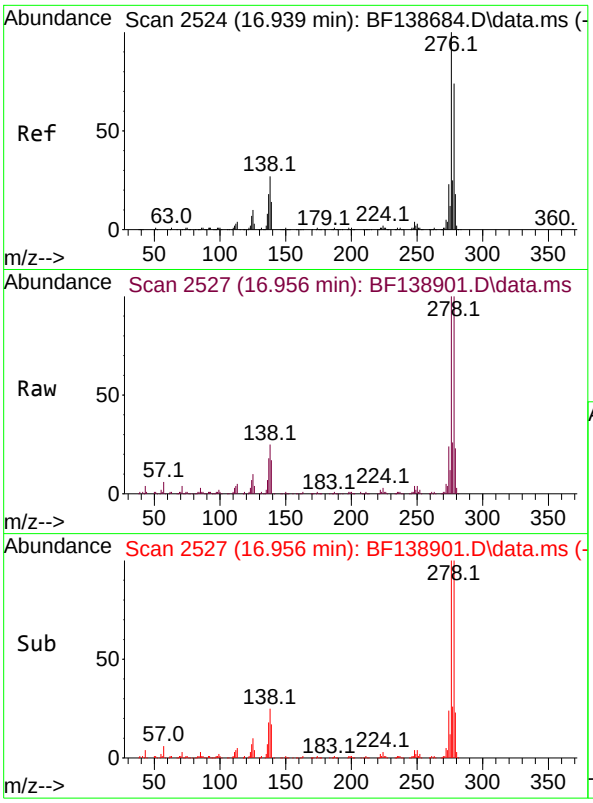



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.468 min Scan# 2274
Delta R.T. -0.000 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:264 Resp: 117822

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.6 | 19.0 | 28.6 |
| 265 | 21.4 | 17.0 | 25.6 |

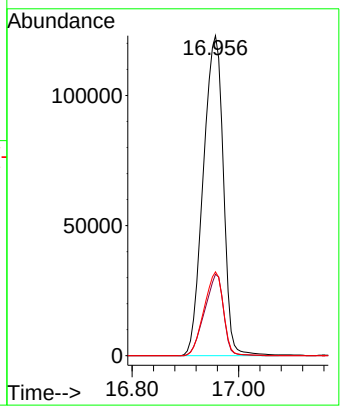





#87
Indeno(1,2,3-cd)pyrene
Concen: 38.033 ng
RT: 16.956 min Scan# 2
Delta R.T. 0.018 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:276 Resp: 32113

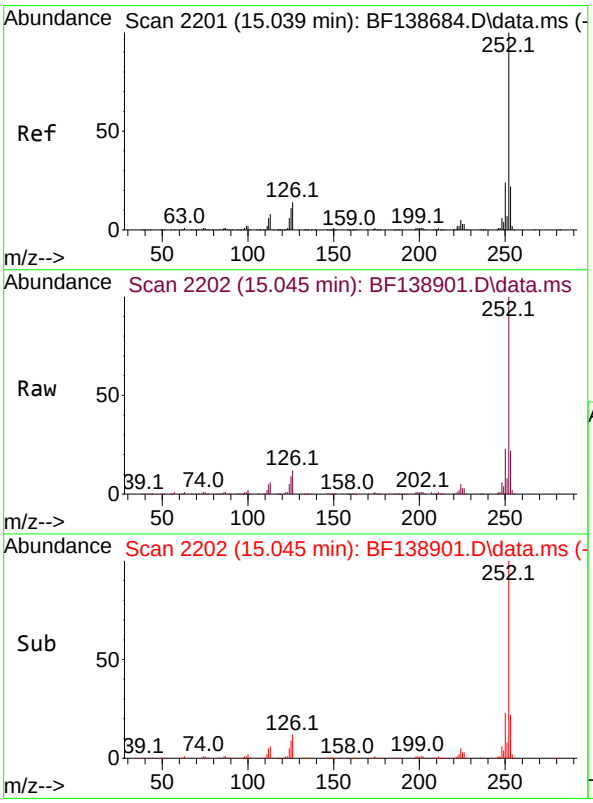
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 24.0 | 21.8 | 32.8 |
| 277 | 25.2 | 20.6 | 30.8 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
**APPROVED**

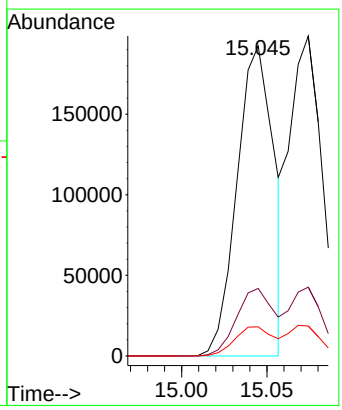
Reviewed By :Jagrut Upadhyay 08/12/2024
Supervised By :mohammad ahmed 08/13/2024

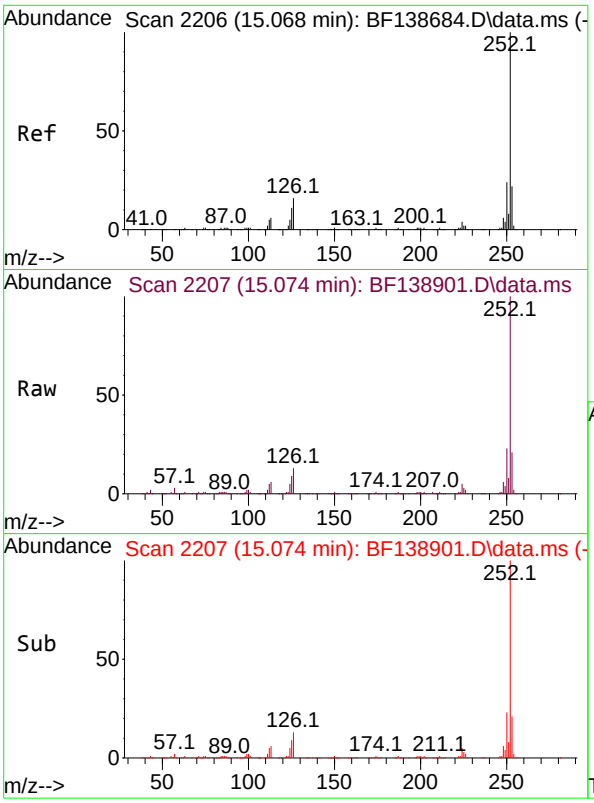



#88
Benzo(b)fluoranthene
Concen: 39.582 ng
RT: 15.045 min Scan# 2202
Delta R.T. 0.006 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:252 Resp: 289097

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.8 | 17.5 | 26.3 |
| 125 | 9.4 | 8.9 | 13.3 |

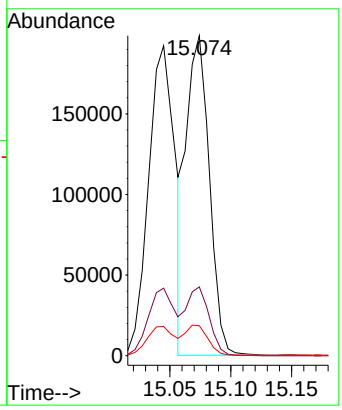





#89
Benzo(k)fluoranthene
Concen: 41.500 ng
RT: 15.074 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:252 Resp: 26243

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.5 | 17.4 | 26.0 |
| 125 | 9.4 | 8.6 | 13.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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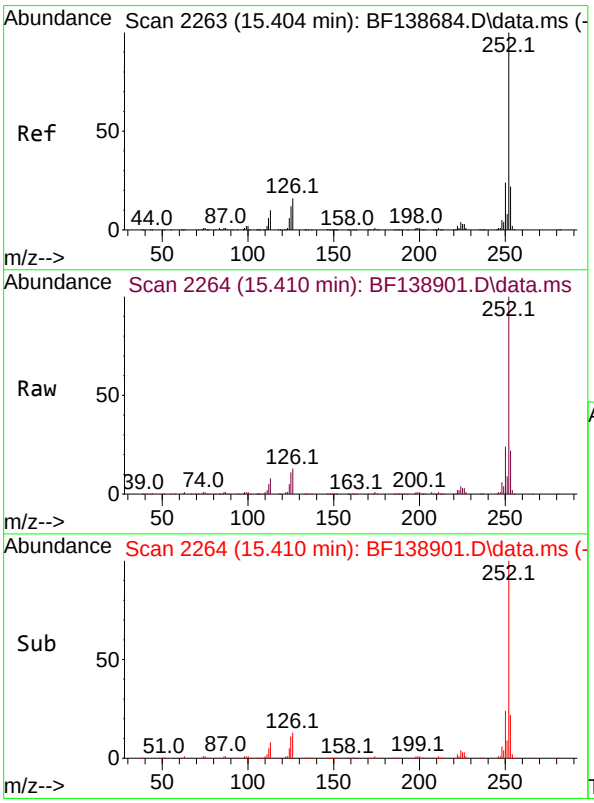
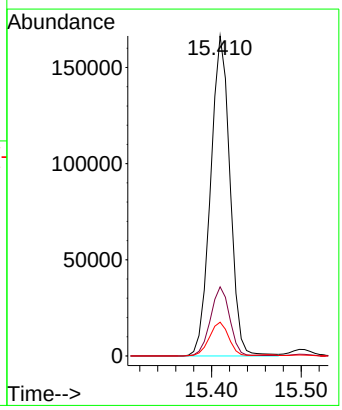
Reviewed By :Jagrut Upadhyay 08/12/2024
Supervised By :mohammad ahmed 08/13/2024

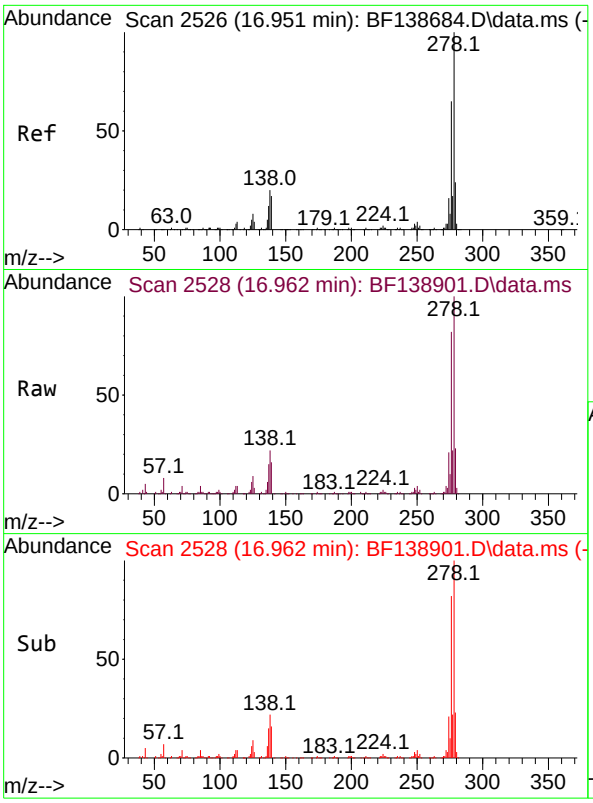



#90
Benzo(a)pyrene
Concen: 40.704 ng
RT: 15.410 min Scan# 2264
Delta R.T. 0.006 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:252 Resp: 250070

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.6 | 17.3 | 25.9 |
| 125 | 10.6 | 9.5 | 14.3 |

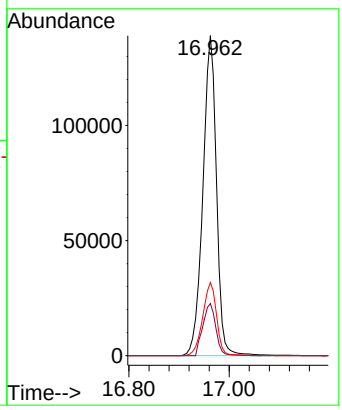





#91
Dibenzo(a,h)anthracene
Concen: 37.829 ng
RT: 16.962 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

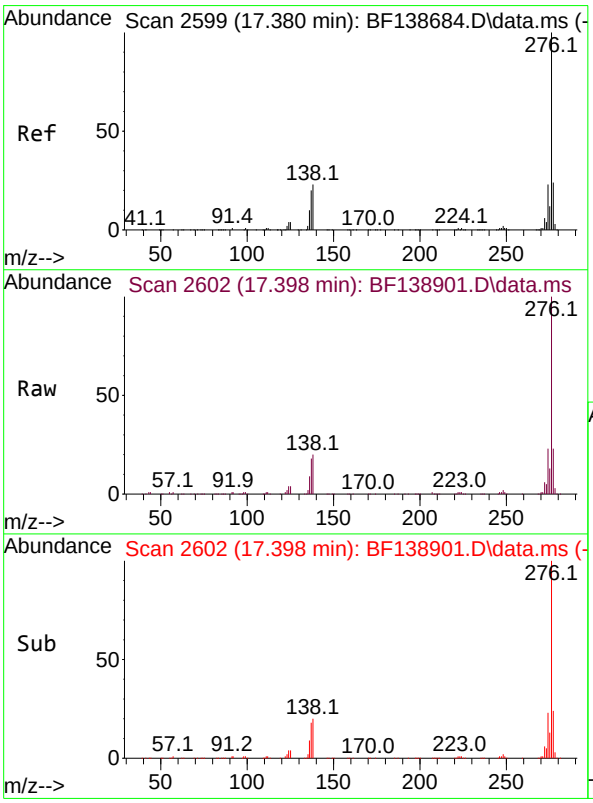
Tgt Ion:278 Resp: 26219

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 16.3 | 14.0 | 21.0 |
| 279 | 22.8 | 19.0 | 28.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

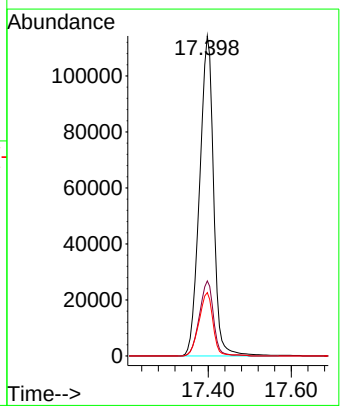
**Manual Integrations APPROVED**
Reviewed By :Jagrut Upadhyay 08/12/2024
Supervised By :mohammad ahmed 08/13/2024




#92
Benzo(g,h,i)perylene
Concen: 37.138 ng
RT: 17.398 min Scan# 2602
Delta R.T. 0.018 min
Lab File: BF138901.D
Acq: 10 Aug 2024 10:41

Tgt Ion:276 Resp: 267113

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 23.4 | 19.0 | 28.4 |
| 138 | 19.8 | 18.5 | 27.7 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081024\
Data File : BF138901.D
Acq On : 10 Aug 2024 10:41
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_F
**LabSampleId :**
SSTDCCC040

Quant Time: Aug 12 01:11:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 87 | 0.00 |
| 2 | | 1,4-Dioxane | 0.567 | 0.483 | 14.8 | 73 | 0.02 |
| 3 | | Pyridine | 1.374 | 1.245 | 9.4 | 79 | 0.02 |
| 4 | | n-Nitrosodimethylamine | 0.818 | 0.889 | -8.7 | 95 | 0.05 |
| 5 | S | 2-Fluorophenol | 1.296 | 1.267 | 2.2 | 87 | 0.00 |
| 6 | | Aniline | 1.551 | 1.536 | 1.0 | 87 | 0.00 |
| 7 | S | Phenol-d6 | 1.740 | 1.736 | 0.2 | 90 | 0.00 |
| 8 | | 2-Chlorophenol | 1.363 | 1.389 | -1.9 | 91 | 0.00 |
| 9 | | Benzaldehyde | 1.043 | 0.916 | 12.2 | 88 | 0.00 |
| 10 | C | Phenol | 1.832 | 1.820 | 0.7 | 89 | 0.01 |
| 11 | | bis(2-Chloroethyl)ether | 1.409 | 1.327 | 5.8 | 85 | 0.00 |
| 12 | | 1,3-Dichlorobenzene | 1.526 | 1.520 | 0.4 | 90 | 0.00 |
| 13 | C | 1,4-Dichlorobenzene | 1.540 | 1.554 | -0.9 | 91 | 0.00 |
| 14 | | 1,2-Dichlorobenzene | 1.439 | 1.491 | -3.6 | 92 | 0.00 |
| 15 | | Benzyl Alcohol | 1.254 | 1.356 | -8.1 | 97 | 0.00 |
| 16 | | 2,2'-oxybis(1-Chloropropane | 2.426 | 2.186 | 9.9 | 81 | 0.00 |
| 17 | | 2-Methylphenol | 1.126 | 1.130 | -0.4 | 89 | 0.00 |
| 18 | | Hexachloroethane | 0.580 | 0.601 | -3.6 | 92 | 0.00 |
| 19 | P | n-Nitroso-di-n-propylamine | 1.051 | 1.110 | -5.6 | 98 | 0.00 |
| 20 | | 3+4-Methylphenols | 1.444 | 1.532 | -6.1 | 98 | 0.00 |
| 21 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 92 | 0.00 |
| 22 | | Acetophenone | 0.490 | 0.511 | -4.3 | 97 | 0.00 |
| 23 | S | Nitrobenzene-d5 | 0.409 | 0.425 | -3.9 | 96 | 0.00 |
| 24 | | Nitrobenzene | 0.416 | 0.425 | -2.2 | 94 | 0.00 |
| 25 | | Isophorone | 0.699 | 0.702 | -0.4 | 95 | 0.00 |
| 26 | C | 2-Nitrophenol | 0.179 | 0.184 | -2.8 | 92 | 0.00 |
| 27 | | 2,4-Dimethylphenol | 0.214 | 0.216 | -0.9 | 93 | 0.00 |
| 28 | | bis(2-Chloroethoxy)methane | 0.425 | 0.416 | 2.1 | 91 | 0.00 |
| 29 | C | 2,4-Dichlorophenol | 0.275 | 0.287 | -4.4 | 96 | 0.00 |
| 30 | | 1,2,4-Trichlorobenzene | 0.318 | 0.328 | -3.1 | 95 | 0.00 |
| 31 | | Naphthalene | 1.053 | 1.059 | -0.6 | 93 | 0.00 |
| 32 | | Benzoic acid | 0.168 | 0.143 | 14.9 | 79 | 0.05 |
| 33 | | 4-Chloroaniline | 0.353 | 0.327 | 7.4 | 87 | 0.00 |
| 34 | C | Hexachlorobutadiene | 0.192 | 0.208 | -8.3 | 101 | 0.00 |
| 35 | | Caprolactam | 0.082 | 0.088 | -7.3 | 104 | 0.03 |
| 36 | C | 4-Chloro-3-methylphenol | 0.315 | 0.337 | -7.0 | 101 | 0.01 |
| 37 | | 2-Methylnaphthalene | 0.665 | 0.691 | -3.9 | 98 | 0.00 |
| 38 | | 1-Methylnaphthalene | 0.652 | 0.672 | -3.1 | 97 | 0.00 |
| 39 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 100 | 0.00 |
| 40 | | 1,2,4,5-Tetrachlorobenzene | 0.556 | 0.570 | -2.5 | 103 | 0.00 |
| 41 | P | Hexachlorocyclopentadiene | 0.120 | 0.164 | -36.7# | 128 | 0.00 |
| 42 | S | 2,4,6-Tribromophenol | 0.164 | 0.177 | -7.9 | 111 | 0.00 |
| 43 | C | 2,4,6-Trichlorophenol | 0.339 | 0.337 | 0.6 | 100 | 0.00 |
| 44 | | 2,4,5-Trichlorophenol | 0.370 | 0.377 | -1.9 | 102 | 0.01 |
| 45 | S | 2-Fluorobiphenyl | 1.331 | 1.376 | -3.4 | 105 | 0.00 |
| 46 | | 1,1'-Biphenyl | 1.566 | 1.559 | 0.4 | 101 | 0.00 |
| 47 | | 2-Chloronaphthalene | 1.165 | 1.167 | -0.2 | 101 | 0.00 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081024\
Data File : BF138901.D
Acq On : 10 Aug 2024 10:41
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_F
**LabSampleId :**
SSTDCCC040

Quant Time: Aug 12 01:11:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 48 | | 2-Nitroaniline | 0.395 | 0.408 | -3.3 | 104 | 0.00 |
| 49 | | Acenaphthylene | 1.652 | 1.642 | 0.6 | 100 | 0.00 |
| 50 | | Dimethylphthalate | 1.279 | 1.355 | -5.9 | 110 | 0.00 |
| 51 | | 2,6-Dinitrotoluene | 0.289 | 0.309 | -6.9 | 107 | 0.00 |
| 52 | C | Acenaphthene | 1.111 | 1.104 | 0.6 | 102 | 0.00 |
| 53 | | 3-Nitroaniline | 0.298 | 0.298 | 0.0 | 103 | 0.00 |
| 54 | P | 2,4-Dinitrophenol | 0.133 | 0.153 | -15.0 | 120 | 0.01 |
| 55 | | Dibenzofuran | 1.568 | 1.590 | -1.4 | 104 | 0.00 |
| 56 | P | 4-Nitrophenol | 0.179 | 0.193 | -7.8 | 110 | 0.02 |
| 57 | | 2,4-Dinitrotoluene | 0.368 | 0.405 | -10.1 | 111 | 0.01 |
| 58 | | Fluorene | 1.249 | 1.309 | -4.8 | 108 | 0.00 |
| 59 | | 2,3,4,6-Tetrachlorophenol | 0.283 | 0.291 | -2.8 | 106 | 0.00 |
| 60 | | Diethylphthalate | 1.213 | 1.342 | -10.6 | 116 | 0.00 |
| 61 | | 4-Chlorophenyl-phenylether | 0.614 | 0.659 | -7.3 | 111 | 0.00 |
| 62 | | 4-Nitroaniline | 0.284 | 0.296 | -4.2 | 108 | 0.02 |
| 63 | | Azobenzene | 1.345 | 1.363 | -1.3 | 104 | 0.00 |
| 64 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 109 | 0.00 |
| 65 | | 4,6-Dinitro-2-methylphenol | 0.122 | 0.128 | -4.9 | 112 | 0.02 |
| 66 | c | n-Nitrosodiphenylamine | 0.625 | 0.637 | -1.9 | 110 | 0.00 |
| 67 | | 4-Bromophenyl-phenylether | 0.217 | 0.225 | -3.7 | 113 | 0.00 |
| 68 | | Hexachlorobenzene | 0.224 | 0.229 | -2.2 | 114 | 0.00 |
| 69 | | Atrazine | 0.161 | 0.148 | 8.1 | 99 | 0.00 |
| 70 | C | Pentachlorophenol | 0.101 | 0.121 | -19.8 | 130 | 0.00 |
| 71 | | Phenanthrene | 1.030 | 1.051 | -2.0 | 112 | 0.00 |
| 72 | | Anthracene | 1.015 | 1.029 | -1.4 | 112 | 0.00 |
| 73 | | Carbazole | 0.875 | 0.883 | -0.9 | 111 | 0.00 |
| 74 | | Di-n-butylphthalate | 0.984 | 1.131 | -14.9 | 124 | 0.00 |
| 75 | C | Fluoranthene | 0.961 | 0.969 | -0.8 | 109 | 0.00 |
| 76 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 92 | 0.00 |
| 77 | | Benzidine | 0.478 | 0.518 | -8.4 | 89 | 0.00 |
| 78 | | Pyrene | 1.883 | 2.088 | -10.9 | 109 | 0.00 |
| 79 | S | Terphenyl-d14 | 1.195 | 1.360 | -13.8 | 113 | 0.00 |
| 80 | | Butylbenzylphthalate | 0.603 | 0.668 | -10.8 | 98 | 0.00 |
| 81 | | Benzo(a)anthracene | 1.377 | 1.402 | -1.8 | 92 | 0.00 |
| 82 | | 3,3'-Dichlorobenzidine | 0.352 | 0.373 | -6.0 | 95 | 0.00 |
| 83 | | Chrysene | 1.243 | 1.236 | 0.6 | 93 | 0.00 |
| 84 | | Bis(2-ethylhexyl)phthalate | 0.883 | 0.871 | 1.4 | 84 | -0.01 |
| 85 | c | Di-n-octyl phthalate | 1.634 | 1.522 | 6.9 | 80 | -0.01 |
| 86 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 78 | 0.00 |
| 87 | | Indeno(1,2,3-cd)pyrene | 1.433 | 1.363 | 4.9 | 76 | 0.02 |
| 88 | | Benzo(b)fluoranthene | 1.240 | 1.227 | 1.0 | 78 | 0.00 |
| 89 | | Benzo(k)fluoranthene | 1.073 | 1.114 | -3.8 | 86 | 0.00 |
| 90 | C | Benzo(a)pyrene | 1.043 | 1.061 | -1.7 | 81 | 0.00 |
| 91 | | Dibenzo(a,h)anthracene | 1.177 | 1.113 | 5.4 | 76 | 0.01 |
| 92 | | Benzo(g,h,i)perylene | 1.221 | 1.134 | 7.1 | 74 | 0.02 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081024\
Data File : BF138901.D
Acq On : 10 Aug 2024 10:41
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_F
**LabSampleId :**
SSTDCCC040

Quant Time: Aug 12 01:11:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081024\
Data File : BF138901.D
Acq On : 10 Aug 2024 10:41
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_F
**LabSampleId :**
SSTDCCC040

Quant Time: Aug 12 01:11:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 1,4-Dichlorobenzene-d4 | 20.000 | 20.000 | 0.0 | 87 | 0.00 |
| 2 | | 1,4-Dioxane | 40.000 | 34.071 | 14.8 | 73 | 0.02 |
| 3 | | Pyridine | 40.000 | 36.250 | 9.4 | 79 | 0.02 |
| 4 | | n-Nitrosodimethylamine | 40.000 | 43.453 | -8.6 | 95 | 0.05 |
| 5 | S | 2-Fluorophenol | 80.000 | 78.231 | 2.2 | 87 | 0.00 |
| 6 | | Aniline | 40.000 | 39.613 | 1.0 | 87 | 0.00 |
| 7 | S | Phenol-d6 | 80.000 | 79.839 | 0.2 | 90 | 0.00 |
| 8 | | 2-Chlorophenol | 40.000 | 40.753 | -1.9 | 91 | 0.00 |
| 9 | | Benzaldehyde | 40.000 | 35.120 | 12.2 | 88 | 0.00 |
| 10 | C | Phenol | 40.000 | 39.743 | 0.6 | 89 | 0.01 |
| 11 | | bis(2-Chloroethyl)ether | 40.000 | 37.658 | 5.9 | 85 | 0.00 |
| 12 | | 1,3-Dichlorobenzene | 40.000 | 39.842 | 0.4 | 90 | 0.00 |
| 13 | C | 1,4-Dichlorobenzene | 40.000 | 40.356 | -0.9 | 91 | 0.00 |
| 14 | | 1,2-Dichlorobenzene | 40.000 | 41.442 | -3.6 | 92 | 0.00 |
| 15 | | Benzyl Alcohol | 40.000 | 43.260 | -8.1 | 97 | 0.00 |
| 16 | | 2,2'-oxybis(1-Chloropropane | 40.000 | 36.049 | 9.9 | 81 | 0.00 |
| 17 | | 2-Methylphenol | 40.000 | 40.163 | -0.4 | 89 | 0.00 |
| 18 | | Hexachloroethane | 40.000 | 41.486 | -3.7 | 92 | 0.00 |
| 19 | P | n-Nitroso-di-n-propylamine | 40.000 | 42.274 | -5.7 | 98 | 0.00 |
| 20 | | 3+4-Methylphenols | 40.000 | 42.440 | -6.1 | 98 | 0.00 |
| 21 | I | Naphthalene-d8 | 20.000 | 20.000 | 0.0 | 92 | 0.00 |
| 22 | | Acetophenone | 40.000 | 41.744 | -4.4 | 97 | 0.00 |
| 23 | S | Nitrobenzene-d5 | 80.000 | 83.191 | -4.0 | 96 | 0.00 |
| 24 | | Nitrobenzene | 40.000 | 40.822 | -2.1 | 94 | 0.00 |
| 25 | | Isophorone | 40.000 | 40.211 | -0.5 | 95 | 0.00 |
| 26 | C | 2-Nitrophenol | 40.000 | 41.134 | -2.8 | 92 | 0.00 |
| 27 | | 2,4-Dimethylphenol | 40.000 | 40.261 | -0.7 | 93 | 0.00 |
| 28 | | bis(2-Chloroethoxy)methane | 40.000 | 39.163 | 2.1 | 91 | 0.00 |
| 29 | C | 2,4-Dichlorophenol | 40.000 | 41.631 | -4.1 | 96 | 0.00 |
| 30 | | 1,2,4-Trichlorobenzene | 40.000 | 41.335 | -3.3 | 95 | 0.00 |
| 31 | | Naphthalene | 40.000 | 40.229 | -0.6 | 93 | 0.00 |
| 32 | | Benzoic acid | 40.000 | 33.892 | 15.3 | 79 | 0.05 |
| 33 | | 4-Chloroaniline | 40.000 | 36.967 | 7.6 | 87 | 0.00 |
| 34 | C | Hexachlorobutadiene | 40.000 | 43.255 | -8.1 | 101 | 0.00 |
| 35 | | Caprolactam | 40.000 | 42.813 | -7.0 | 104 | 0.03 |
| 36 | C | 4-Chloro-3-methylphenol | 40.000 | 42.827 | -7.1 | 101 | 0.01 |
| 37 | | 2-Methylnaphthalene | 40.000 | 41.582 | -4.0 | 98 | 0.00 |
| 38 | | 1-Methylnaphthalene | 40.000 | 41.263 | -3.2 | 97 | 0.00 |
| 39 | I | Acenaphthene-d10 | 20.000 | 20.000 | 0.0 | 100 | 0.00 |
| 40 | | 1,2,4,5-Tetrachlorobenzene | 40.000 | 41.018 | -2.5 | 103 | 0.00 |
| 41 | P | Hexachlorocyclopentadiene | 40.000 | 47.645 | -19.1 | 128 | 0.00 |
| 42 | S | 2,4,6-Tribromophenol | 80.000 | 86.555 | -8.2 | 111 | 0.00 |
| 43 | C | 2,4,6-Trichlorophenol | 40.000 | 39.746 | 0.6 | 100 | 0.00 |
| 44 | | 2,4,5-Trichlorophenol | 40.000 | 40.677 | -1.7 | 102 | 0.01 |
| 45 | S | 2-Fluorobiphenyl | 80.000 | 82.684 | -3.4 | 105 | 0.00 |
| 46 | | 1,1'-Biphenyl | 40.000 | 39.816 | 0.5 | 101 | 0.00 |
| 47 | | 2-Chloronaphthalene | 40.000 | 40.080 | -0.2 | 101 | 0.00 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081024\
Data File : BF138901.D
Acq On : 10 Aug 2024 10:41
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_F
**LabSampleId :**
SSTDCCC040

Quant Time: Aug 12 01:11:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 48 | | 2-Nitroaniline | 40.000 | 41.277 | -3.2 | 104 | 0.00 |
| 49 | | Acenaphthylene | 40.000 | 39.744 | 0.6 | 100 | 0.00 |
| 50 | | Dimethylphthalate | 40.000 | 42.377 | -5.9 | 110 | 0.00 |
| 51 | | 2,6-Dinitrotoluene | 40.000 | 42.834 | -7.1 | 107 | 0.00 |
| 52 | C | Acenaphthene | 40.000 | 39.769 | 0.6 | 102 | 0.00 |
| 53 | | 3-Nitroaniline | 40.000 | 39.908 | 0.2 | 103 | 0.00 |
| 54 | P | 2,4-Dinitrophenol | 40.000 | 46.071 | -15.2 | 120 | 0.01 |
| 55 | | Dibenzofuran | 40.000 | 40.561 | -1.4 | 104 | 0.00 |
| 56 | P | 4-Nitrophenol | 40.000 | 43.021 | -7.6 | 110 | 0.02 |
| 57 | | 2,4-Dinitrotoluene | 40.000 | 44.035 | -10.1 | 111 | 0.01 |
| 58 | | Fluorene | 40.000 | 41.948 | -4.9 | 108 | 0.00 |
| 59 | | 2,3,4,6-Tetrachlorophenol | 40.000 | 41.069 | -2.7 | 106 | 0.00 |
| 60 | | Diethylphthalate | 40.000 | 44.254 | -10.6 | 116 | 0.00 |
| 61 | | 4-Chlorophenyl-phenylether | 40.000 | 42.898 | -7.2 | 111 | 0.00 |
| 62 | | 4-Nitroaniline | 40.000 | 41.796 | -4.5 | 108 | 0.02 |
| 63 | | Azobenzene | 40.000 | 40.554 | -1.4 | 104 | 0.00 |
| 64 | I | Phenanthrene-d10 | 20.000 | 20.000 | 0.0 | 109 | 0.00 |
| 65 | | 4,6-Dinitro-2-methylphenol | 40.000 | 42.064 | -5.2 | 112 | 0.02 |
| 66 | c | n-Nitrosodiphenylamine | 40.000 | 40.760 | -1.9 | 110 | 0.00 |
| 67 | | 4-Bromophenyl-phenylether | 40.000 | 41.631 | -4.1 | 113 | 0.00 |
| 68 | | Hexachlorobenzene | 40.000 | 41.012 | -2.5 | 114 | 0.00 |
| 69 | | Atrazine | 40.000 | 36.784 | 8.0 | 99 | 0.00 |
| 70 | C | Pentachlorophenol | 40.000 | 48.183 | -20.5# | 130 | 0.00 |
| 71 | | Phenanthrene | 40.000 | 40.816 | -2.0 | 112 | 0.00 |
| 72 | | Anthracene | 40.000 | 40.562 | -1.4 | 112 | 0.00 |
| 73 | | Carbazole | 40.000 | 40.357 | -0.9 | 111 | 0.00 |
| 74 | | Di-n-butylphthalate | 40.000 | 45.963 | -14.9 | 124 | 0.00 |
| 75 | C | Fluoranthene | 40.000 | 40.307 | -0.8 | 109 | 0.00 |
| 76 | I | Chrysene-d12 | 20.000 | 20.000 | 0.0 | 92 | 0.00 |
| 77 | | Benzidine | 40.000 | 43.325 | -8.3 | 89 | 0.00 |
| 78 | | Pyrene | 40.000 | 44.353 | -10.9 | 109 | 0.00 |
| 79 | S | Terphenyl-d14 | 80.000 | 91.112 | -13.9 | 113 | 0.00 |
| 80 | | Butylbenzylphthalate | 40.000 | 44.312 | -10.8 | 98 | 0.00 |
| 81 | | Benzo(a)anthracene | 40.000 | 40.721 | -1.8 | 92 | 0.00 |
| 82 | | 3,3'-Dichlorobenzidine | 40.000 | 42.286 | -5.7 | 95 | 0.00 |
| 83 | | Chrysene | 40.000 | 39.786 | 0.5 | 93 | 0.00 |
| 84 | | Bis(2-ethylhexyl)phthalate | 40.000 | 39.440 | 1.4 | 84 | -0.01 |
| 85 | c | Di-n-octyl phthalate | 40.000 | 37.255 | 6.9 | 80 | -0.01 |
| 86 | I | Perylene-d12 | 20.000 | 20.000 | 0.0 | 78 | 0.00 |
| 87 | | Indeno(1,2,3-cd)pyrene | 40.000 | 38.033 | 4.9 | 76 | 0.02 |
| 88 | | Benzo(b)fluoranthene | 40.000 | 39.582 | 1.0 | 78 | 0.00 |
| 89 | | Benzo(k)fluoranthene | 40.000 | 41.500 | -3.8 | 86 | 0.00 |
| 90 | C | Benzo(a)pyrene | 40.000 | 40.704 | -1.8 | 81 | 0.00 |
| 91 | | Dibenzo(a,h)anthracene | 40.000 | 37.829 | 5.4 | 76 | 0.01 |
| 92 | | Benzo(g,h,i)perylene | 40.000 | 37.138 | 7.2 | 74 | 0.02 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081024\
Data File : BF138901.D
Acq On : 10 Aug 2024 10:41
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_F
**LabSampleId :**
SSTDCCC040

Quant Time: Aug 12 01:11:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|

(#) = Out of Range SPCC's out = 0 CCC's out = 1

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: P3457 SAS No.: P3457 SDG No.: P3457

Instrument ID: BNA_F Calibration Date/Time: 08/14/2024 12:03

Lab File ID: BF138988.D Init. Calib. Date(s): 07/30/2024 07/30/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:54 16:29

GC Column: DB-UI ID: 0.18 (mm)

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Pyridine | 1.374 | 1.276 | | -7.1 | |
| 2-Fluorophenol | 1.296 | 1.279 | | -1.3 | |
| Benzaldehyde | 1.043 | 0.855 | | -18.0 | |
| Phenol-d6 | 1.740 | 1.703 | | -2.1 | |
| 2-Methylphenol | 1.126 | 1.081 | | -4.0 | |
| 3+4-Methylphenols | 1.444 | 1.458 | | 1.0 | |
| Nitrobenzene-d5 | 0.409 | 0.430 | | 5.1 | |
| Hexachloroethane | 0.580 | 0.576 | | -0.7 | |
| Nitrobenzene | 0.416 | 0.434 | | 4.3 | |
| Naphthalene | 1.053 | 1.057 | | 0.4 | |
| Hexachlorobutadiene | 0.192 | 0.205 | | 6.8 | 20.0 |
| 2-Methylnaphthalene | 0.665 | 0.681 | | 2.4 | |
| 2,4,6-Trichlorophenol | 0.339 | 0.331 | | -2.4 | 20.0 |
| 2-Fluorobiphenyl | 1.331 | 1.376 | | 3.4 | |
| 2,4,5-Trichlorophenol | 0.370 | 0.361 | | -2.4 | |
| Acenaphthylene | 1.652 | 1.626 | | -1.6 | |
| Acenaphthene | 1.111 | 1.101 | | -0.9 | 20.0 |
| Dibenzofuran | 1.568 | 1.584 | | 1.0 | |
| 2,4-Dinitrotoluene | 0.368 | 0.393 | | 6.8 | |
| Fluorene | 1.249 | 1.314 | | 5.2 | |
| 2,4,6-Tribromophenol | 0.164 | 0.163 | | -0.6 | |
| Hexachlorobenzene | 0.224 | 0.221 | | -1.3 | |
| Pentachlorophenol | 0.101 | 0.094 | | -6.9 | 20.0 |
| Phenanthrene | 1.030 | 1.031 | | 0.1 | |
| Anthracene | 1.015 | 1.008 | | -0.7 | |
| Carbazole | 0.875 | 0.850 | | -2.9 | |
| Di-n-butylphthalate | 0.984 | 1.072 | | 8.9 | |
| Fluoranthene | 0.961 | 0.935 | | -2.7 | 20.0 |
| Pyrene | 1.883 | 1.903 | | 1.1 | |
| Terphenyl-d14 | 1.195 | 1.229 | | 2.8 | |
| Benzo(a)anthracene | 1.377 | 1.316 | | -4.4 | |
| Chrysene | 1.243 | 1.276 | | 2.7 | |
| Bis(2-ethylhexyl)phthalate | 0.883 | 0.812 | | -8.0 | |
| Benzo(b)fluoranthene | 1.240 | 1.293 | | 4.3 | |
| Benzo(k)fluoranthene | 1.073 | 1.068 | | -0.5 | |
| Benzo(a)pyrene | 1.043 | 1.067 | | 2.3 | 20.0 |
| Indeno(1,2,3-cd)pyrene | 1.433 | 1.318 | | -8.0 | |
| Dibenzo(a,h)anthracene | 1.177 | 1.083 | | -8.0 | |
| Benzo(g,h,i)perylene | 1.221 | 1.091 | | -10.6 | |

Form VII SV-1

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: P3457 SAS No.: P3457 SDG No.: P3457

Instrument ID: BNA_F Calibration Date/Time: 08/14/2024 12:03

Lab File ID: BF138988.D Init. Calib. Date(s): 07/30/2024 07/30/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:54 16:29

GC Column: DB-UI ID: 0.18 (mm)

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 1,4-Dioxane | 0.567 | 0.506 | | -10.8 | 20.0 |
| 1-Methylnaphthalene | 0.652 | 0.671 | | 2.9 | |

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081424\
Data File : BF138988.D
Acq On : 14 Aug 2024 12:03
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 14 12:36:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.839 | 152 | 46569 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 8.122 | 136 | 180395 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 9.869 | 164 | 100753 | 20.000 | ng | -0.01 |
| 64) Phenanthrene-d10 | 11.357 | 188 | 170882 | 20.000 | ng | -0.01 |
| 76) Chrysene-d12 | 13.998 | 240 | 83079 | 20.000 | ng | 0.00 |
| 86) Perylene-d12 | 15.462 | 264 | 87305 | 20.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.469 | 112 | 238261 | 78.978 | ng | 0.00 |
| 7) Phenol-d6 | 6.487 | 99 | 317188 | 78.311 | ng | 0.00 |
| 23) Nitrobenzene-d5 | 7.410 | 82 | 310197 | 84.071 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.663 | 330 | 65588 | 79.472 | ng | 0.00 |
| 45) 2-Fluorobiphenyl | 9.192 | 172 | 554400 | 82.676 | ng | -0.01 |
| 79) Terphenyl-d14 | 12.939 | 244 | 408271 | 82.278 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.575 | 88 | 47110 | 35.669 | ng | # 93 |
| 3) Pyridine | 3.334 | 79 | 118879 | 37.156 | ng | 93 |
| 4) n-Nitrosodimethylamine | 3.304 | 42 | 86150 | 45.210 | ng | # 80 |
| 6) Aniline | 6.504 | 93 | 138167 | 38.250 | ng | # 55 |
| 8) 2-Chlorophenol | 6.628 | 128 | 124880 | 39.344 | ng | 98 |
| 9) Benzaldehyde | 6.392 | 77 | 79598 | 32.783 | ng | 100 |
| 10) Phenol | 6.498 | 94 | 164246 | 38.514 | ng | 79 |
| 11) bis(2-Chloroethyl)ether | 6.575 | 93 | 118703 | 36.171 | ng | 100 |
| 12) 1,3-Dichlorobenzene | 6.775 | 146 | 137294 | 38.642 | ng | 97 |
| 13) 1,4-Dichlorobenzene | 6.857 | 146 | 141561 | 39.481 | ng | 98 |
| 14) 1,2-Dichlorobenzene | 7.010 | 146 | 131427 | 39.221 | ng | 99 |
| 15) Benzyl Alcohol | 6.987 | 79 | 120359 | 41.229 | ng | 96 |
| 16) 2,2'-oxybis(1-Chloropr... | 7.110 | 45 | 198801 | 35.200 | ng | 52 |
| 17) 2-Methylphenol | 7.104 | 107 | 100716 | 38.428 | ng | # 90 |
| 18) Hexachloroethane | 7.345 | 117 | 53609 | 39.720 | ng | 97 |
| 19) n-Nitroso-di-n-propyla... | 7.257 | 70 | 97551 | 39.876 | ng | 96 |
| 20) 3+4-Methylphenols | 7.257 | 107 | 135810 | 40.386 | ng | 92 |
| 22) Acetophenone | 7.251 | 105 | 189628 | 42.932 | ng | 99 |
| 24) Nitrobenzene | 7.428 | 77 | 156466 | 41.674 | ng | 98 |
| 25) Isophorone | 7.663 | 82 | 253087 | 40.170 | ng | 99 |
| 26) 2-Nitrophenol | 7.739 | 139 | 64715 | 40.063 | ng | 94 |
| 27) 2,4-Dimethylphenol | 7.781 | 122 | 77034 | 39.859 | ng | 96 |
| 28) bis(2-Chloroethoxy)met... | 7.869 | 93 | 145855 | 38.016 | ng | 98 |
| 29) 2,4-Dichlorophenol | 7.986 | 162 | 100855 | 40.610 | ng | 99 |
| 30) 1,2,4-Trichlorobenzene | 8.063 | 180 | 115653 | 40.354 | ng | 99 |
| 31) Naphthalene | 8.139 | 128 | 381268 | 40.153 | ng | 100 |
| 32) Benzoic acid | 7.928 | 122 | 45176m | 29.736 | ng | |
| 33) 4-Chloroaniline | 8.198 | 127 | 122579 | 38.457 | ng | 98 |
| 34) Hexachlorobutadiene | 8.251 | 225 | 74090 | 42.681 | ng | 98 |
| 35) Caprolactam | 8.575 | 113 | 32178m | 43.423 | ng | |
| 36) 4-Chloro-3-methylphenol | 8.686 | 107 | 120444 | 42.436 | ng | 99 |
| 37) 2-Methylnaphthalene | 8.828 | 142 | 245717 | 40.974 | ng | 100 |
| 38) 1-Methylnaphthalene | 8.928 | 142 | 241962 | 41.175 | ng | 99 |
| 40) 1,2,4,5-Tetrachloroben... | 8.992 | 216 | 112930 | 40.349 | ng | 98 |
| 41) Hexachlorocyclopentadiene | 8.975 | 237 | 20861 | 32.674 | ng | 99 |
| 43) 2,4,6-Trichlorophenol | 9.116 | 196 | 66716 | 39.096 | ng | 99 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081424\
Data File : BF138988.D
Acq On : 14 Aug 2024 12:03
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 14 12:36:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 9.163 | 196 | 72737 | 38.990 | ng | | 98 |
| 46) 1,1'-Biphenyl | 9.292 | 154 | 314999 | 39.920 | ng | | 99 |
| 47) 2-Chloronaphthalene | 9.322 | 162 | 230293 | 39.241 | ng | | 98 |
| 48) 2-Nitroaniline | 9.422 | 65 | 84279 | 42.361 | ng | | 92 |
| 49) Acenaphthylene | 9.733 | 152 | 327703 | 39.371 | ng | | 100 |
| 50) Dimethylphthalate | 9.592 | 163 | 267963 | 41.594 | ng | | 99 |
| 51) 2,6-Dinitrotoluene | 9.663 | 165 | 60318 | 41.487 | ng | # | 85 |
| 52) Acenaphthene | 9.904 | 154 | 221840 | 39.648 | ng | | 99 |
| 53) 3-Nitroaniline | 9.839 | 138 | 57785 | 38.446 | ng | | 93 |
| 54) 2,4-Dinitrophenol | 9.957 | 184 | 24129 | 36.052 | ng | | 86 |
| 55) Dibenzofuran | 10.075 | 168 | 319282 | 40.425 | ng | | 98 |
| 56) 4-Nitrophenol | 10.016 | 139 | 43088 | 47.672 | ng | | 88 |
| 57) 2,4-Dinitrotoluene | 10.075 | 165 | 79095 | 42.640 | ng | # | 78 |
| 58) Fluorene | 10.422 | 166 | 264679 | 42.082 | ng | | 99 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.204 | 232 | 55371 | 38.824 | ng | | 96 |
| 60) Diethylphthalate | 10.292 | 149 | 266725 | 43.665 | ng | | 100 |
| 61) 4-Chlorophenyl-phenyle... | 10.410 | 204 | 128294 | 41.474 | ng | | 97 |
| 62) 4-Nitroaniline | 10.451 | 138 | 57048 | 39.940 | ng | # | 82 |
| 63) Azobenzene | 10.569 | 77 | 274490 | 40.516 | ng | | 95 |
| 65) 4,6-Dinitro-2-methylph... | 10.486 | 198 | 38536 | 36.964 | ng | | 95 |
| 66) n-Nitrosodiphenylamine | 10.533 | 169 | 212563 | 39.795 | ng | | 99 |
| 67) 4-Bromophenyl-phenylether | 10.898 | 248 | 72344 | 39.102 | ng | | 97 |
| 68) Hexachlorobenzene | 10.969 | 284 | 75615 | 39.584 | ng | | 99 |
| 69) Atrazine | 11.057 | 200 | 51899 | 37.660 | ng | | 99 |
| 70) Pentachlorophenol | 11.174 | 266 | 32173 | 37.365 | ng | | 99 |
| 71) Phenanthrene | 11.380 | 178 | 352327 | 40.041 | ng | | 100 |
| 72) Anthracene | 11.433 | 178 | 344553 | 39.749 | ng | | 100 |
| 73) Carbazole | 11.592 | 167 | 290496 | 38.844 | ng | | 99 |
| 74) Di-n-butylphthalate | 11.910 | 149 | 366466 | 43.590 | ng | | 99 |
| 75) Fluoranthene | 12.569 | 202 | 319496 | 38.894 | ng | | 99 |
| 77) Benzidine | 12.698 | 184 | 70708 | 35.583 | ng | | 100 |
| 78) Pyrene | 12.798 | 202 | 316221 | 40.426 | ng | | 100 |
| 80) Butylbenzylphthalate | 13.410 | 149 | 104111 | 41.563 | ng | | 99 |
| 81) Benzo(a)anthracene | 13.986 | 228 | 218644 | 38.218 | ng | | 100 |
| 82) 3,3'-Dichlorobenzidine | 13.951 | 252 | 60294 | 41.184 | ng | | 99 |
| 83) Chrysene | 14.027 | 228 | 211974 | 41.069 | ng | | 100 |
| 84) Bis(2-ethylhexyl)phtha... | 13.963 | 149 | 134893 | 36.776 | ng | | 98 |
| 85) Di-n-octyl phthalate | 14.574 | 149 | 223969 | 33.003 | ng | | 99 |
| 87) Indeno(1,2,3-cd)pyrene | 16.939 | 276 | 230050 | 36.769 | ng | | 96 |
| 88) Benzo(b)fluoranthene | 15.033 | 252 | 225713 | 41.706 | ng | | 98 |
| 89) Benzo(k)fluoranthene | 15.062 | 252 | 186532 | 39.808 | ng | | 99 |
| 90) Benzo(a)pyrene | 15.404 | 252 | 186317 | 40.928 | ng | | 98 |
| 91) Dibenzo(a,h)anthracene | 16.945 | 278 | 189073 | 36.814 | ng | | 96 |
| 92) Benzo(g,h,i)perylene | 17.380 | 276 | 190583 | 35.760 | ng | | 96 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081424\
Data File : BF138988.D
Acq On : 14 Aug 2024 12:03
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 14 12:36:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations APPROVED**

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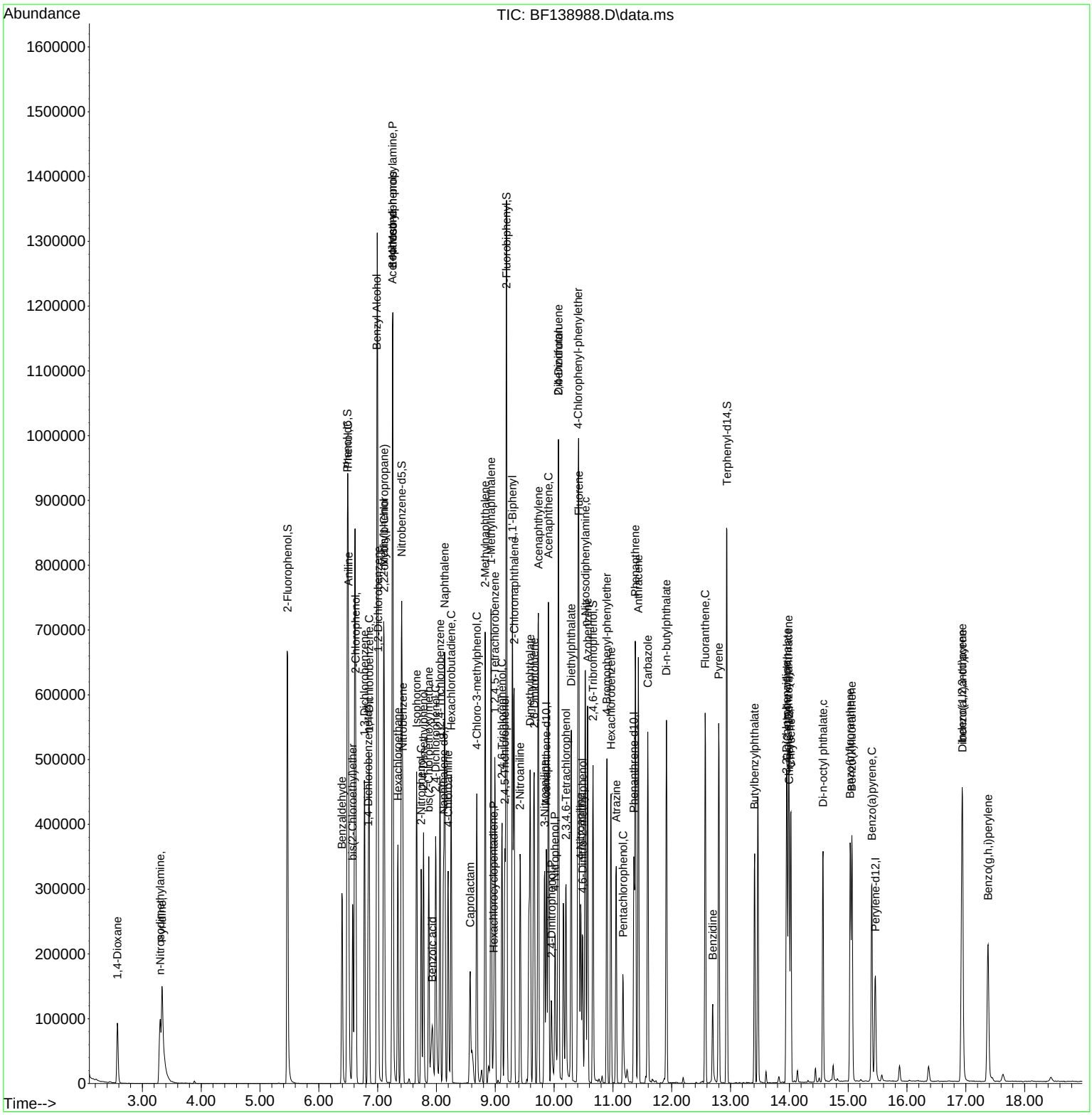
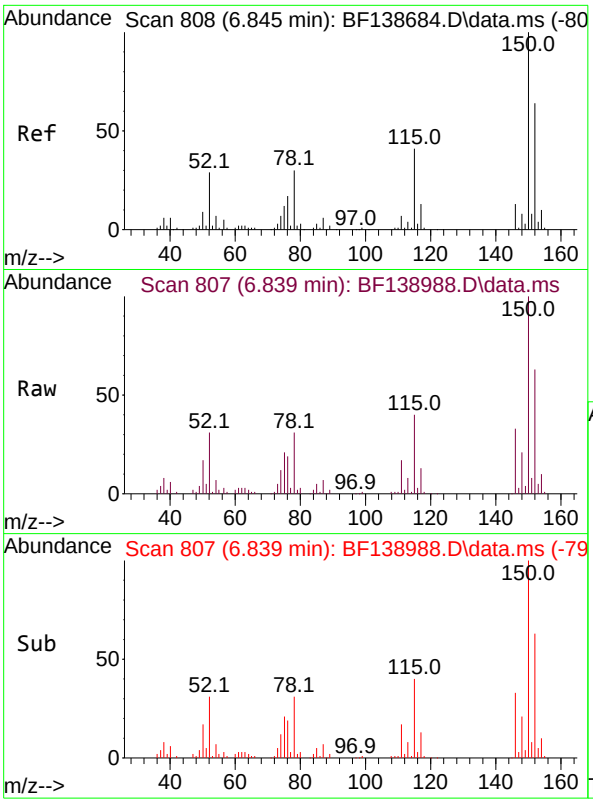
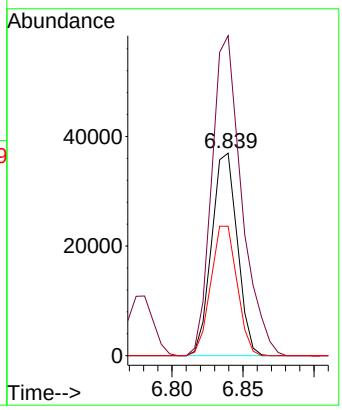





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.839 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:152 Resp: 4656

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 158.0 | 126.0 | 189.0 |
| 115 | 63.9 | 51.7 | 77.5 |




**Instrument :**
BNA_F
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SSTDCCC040

**Manual Integrations**
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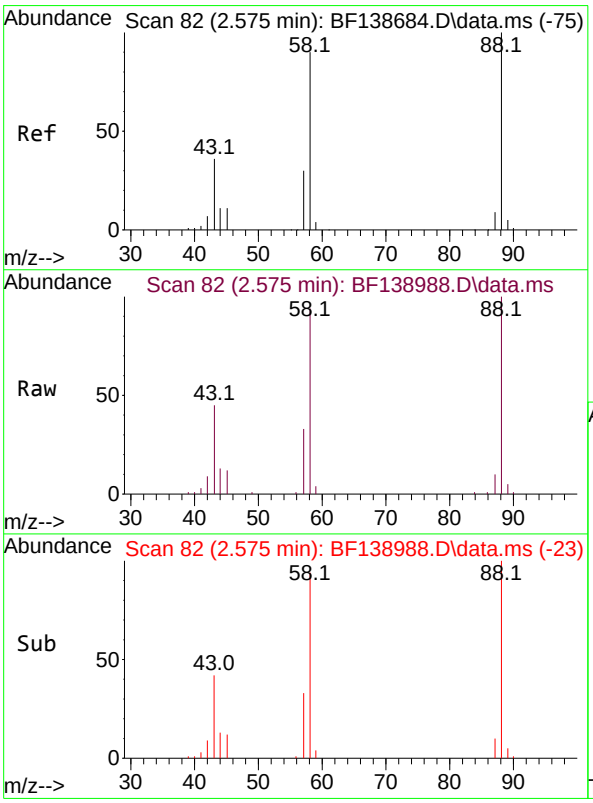
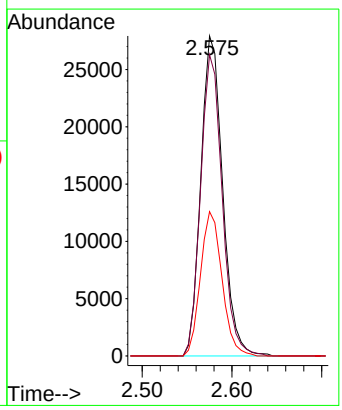
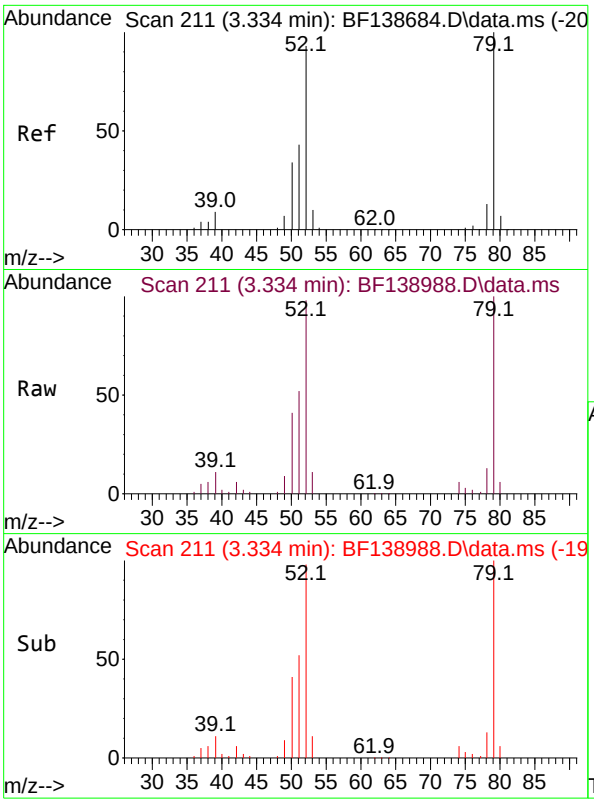



#2
1,4-Dioxane
Concen: 35.669 ng
RT: 2.575 min Scan# 82
Delta R.T. -0.000 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion: 88 Resp: 47110

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 93.2 | 71.6 | 107.4 |
| 43 | 44.6 | 28.7 | 43.1# |

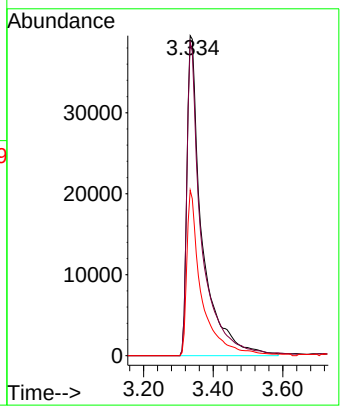





#3
Pyridine
Concen: 37.156 ng
RT: 3.334 min Scan# 21
Delta R.T. -0.000 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion: 79 Resp: 11887

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 97.9 | 74.7 | 112.1 |
| 51 | 51.7 | 34.6 | 51.8 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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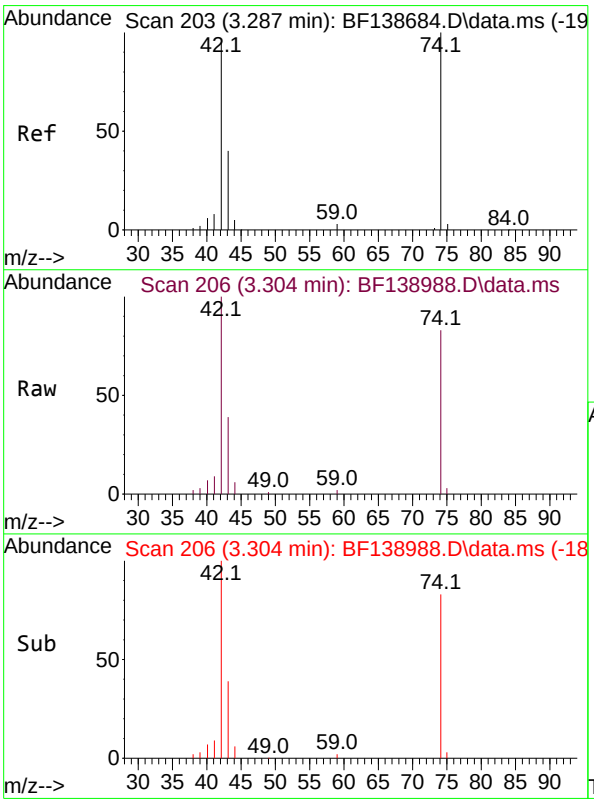
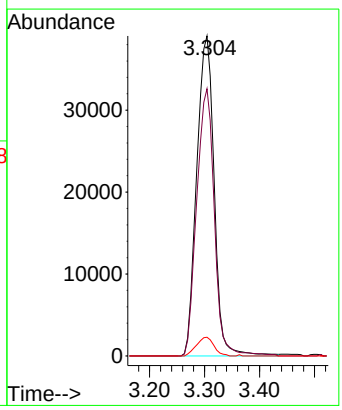
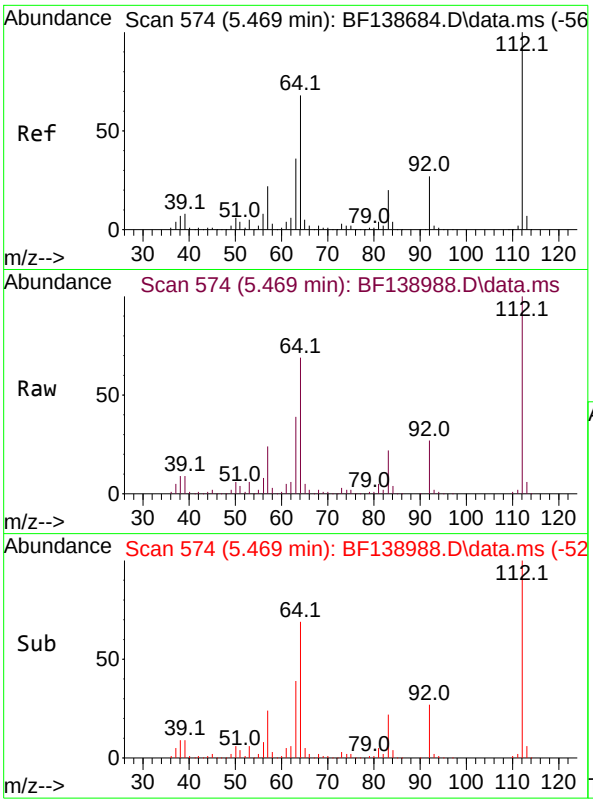



#4
n-Nitrosodimethylamine
Concen: 45.210 ng
RT: 3.304 min Scan# 206
Delta R.T. 0.018 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion: 42 Resp: 86150

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 83.5 | 84.2 | 126.4# |
| 44 | 5.9 | 4.9 | 7.3 |

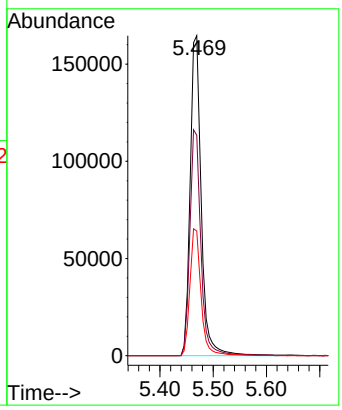





#5
2-Fluorophenol
Concen: 78.978 ng
RT: 5.469 min Scan# 5
Delta R.T. -0.000 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:112 Resp: 23826

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 68.9 | 54.2 | 81.4 |
| 63 | 38.9 | 28.7 | 43.1 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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Reviewed By :Yogesh Patel 08/15/2024
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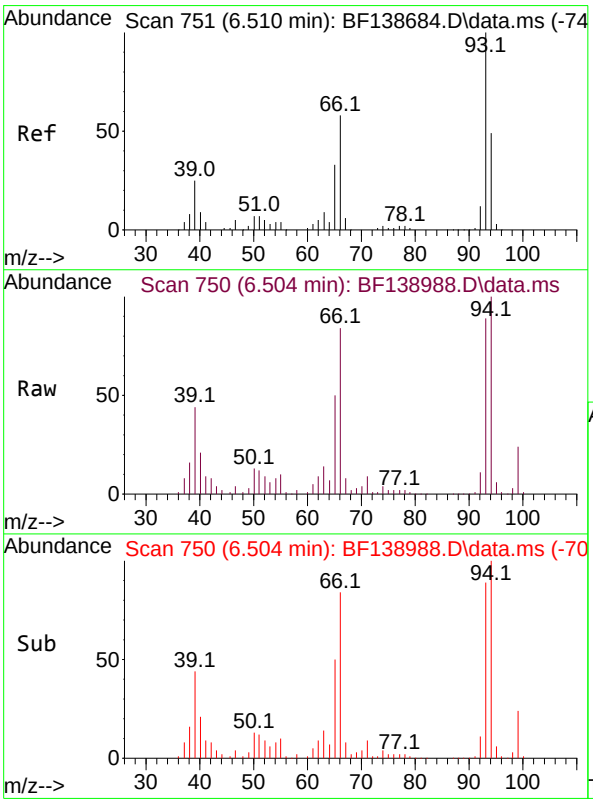
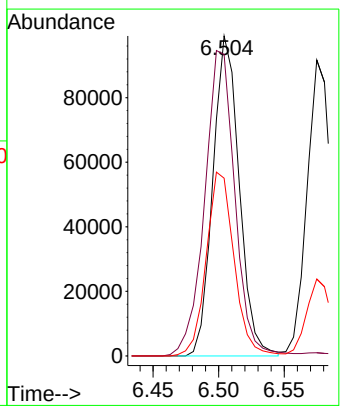
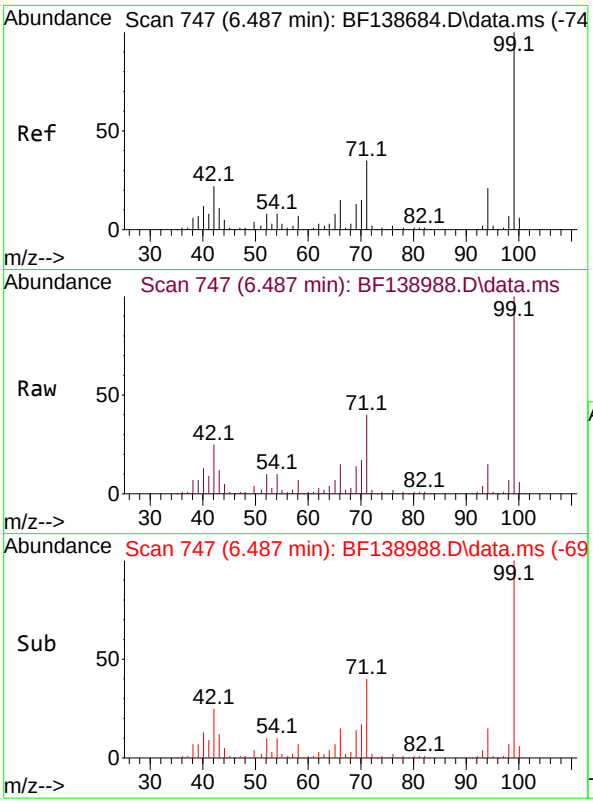



#6
Aniline
Concen: 38.250 ng
RT: 6.504 min Scan# 750
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion: 93 Resp: 138167

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 66 | 94.2 | 46.9 | 70.3# |
| 65 | 55.6 | 26.5 | 39.7# |

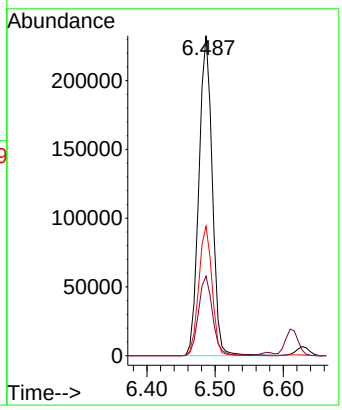





#7
Phenol-d6
Concen: 78.311 ng
RT: 6.487 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion: 99 Resp: 31718

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 24.8 | 17.4 | 26.0 |
| 71 | 40.5 | 28.1 | 42.1 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations APPROVED**

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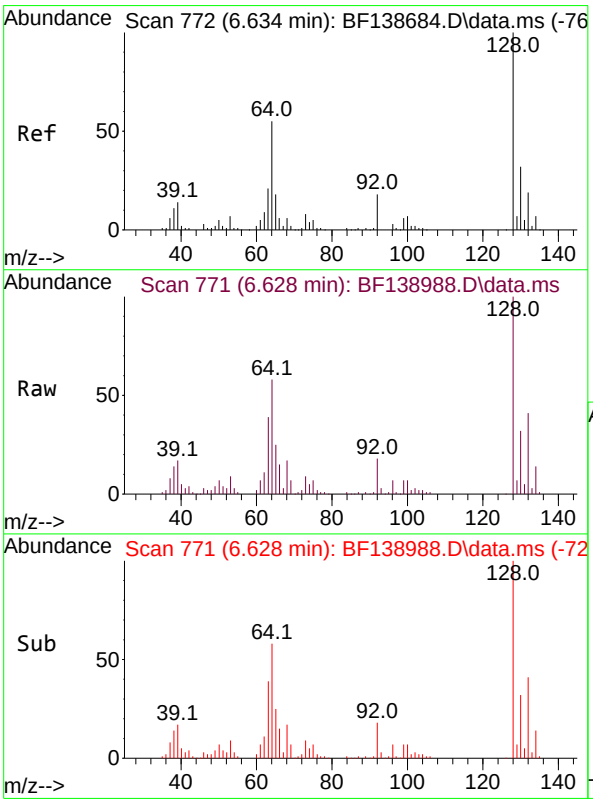
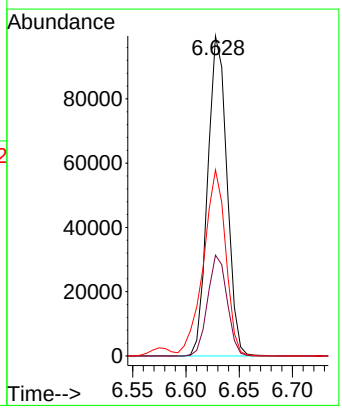
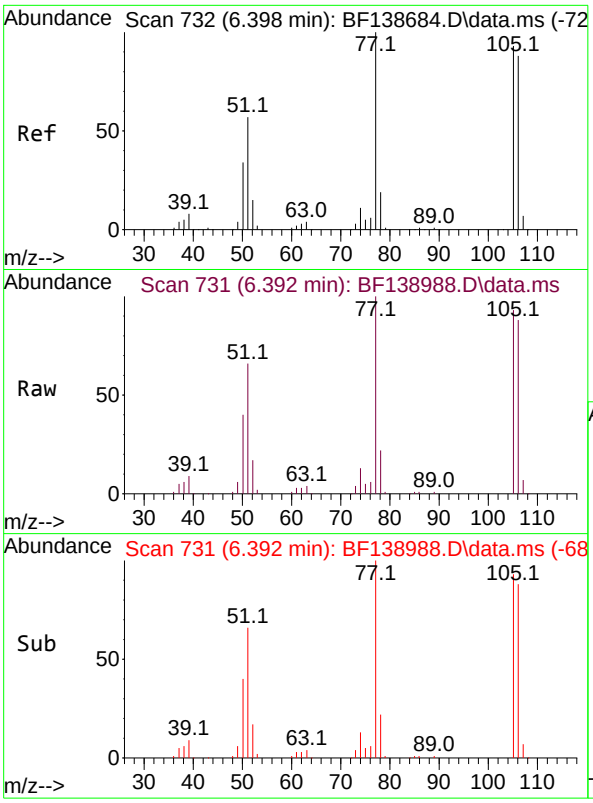



#8
2-Chlorophenol
Concen: 39.344 ng
RT: 6.628 min Scan# 771
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:128 Resp: 124880

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 130 | 31.5 | 12.0 | 52.0 |
| 64 | 58.2 | 36.3 | 76.3 |

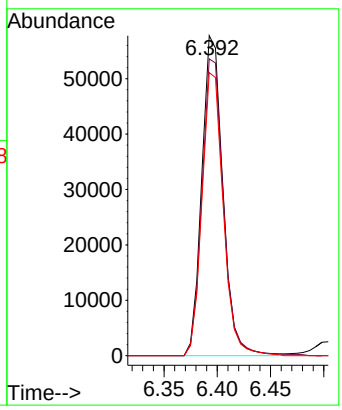





#9
Benzaldehyde
Concen: 32.783 ng
RT: 6.392 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion: 77 Resp: 7959

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 105 | 92.7 | 72.9 | 112.9 |
| 106 | 88.4 | 68.4 | 108.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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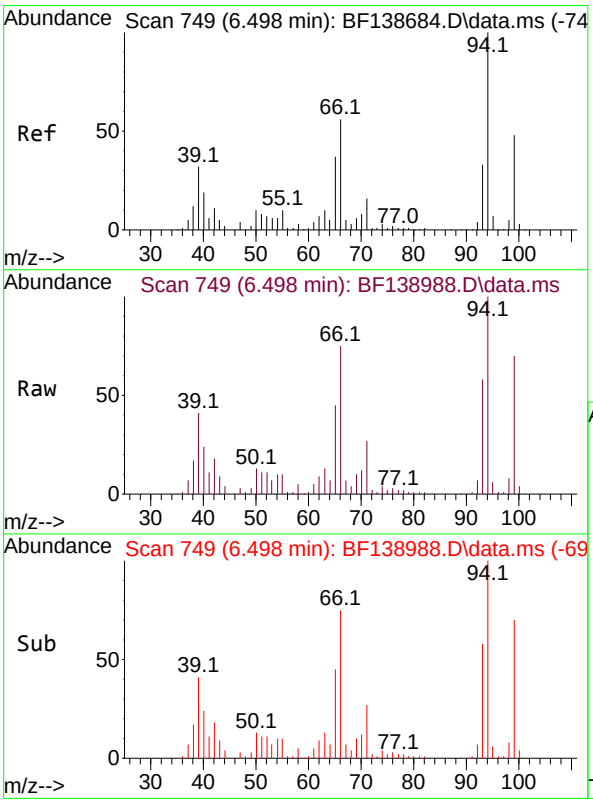
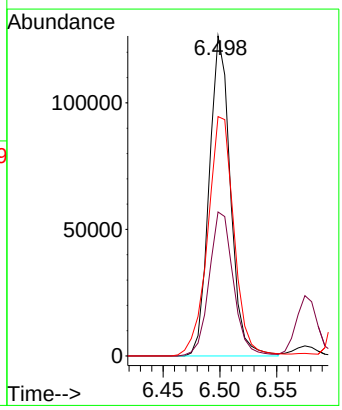
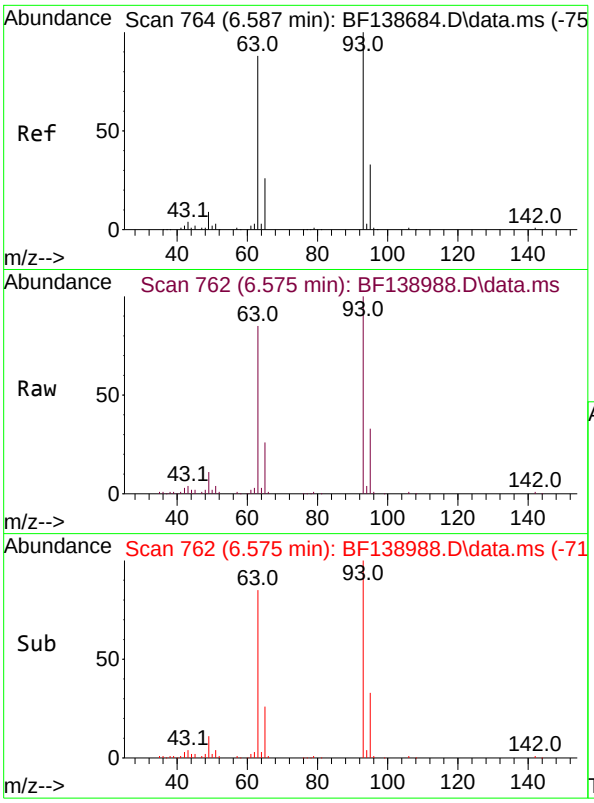



#10
Phenol
Concen: 38.514 ng
RT: 6.498 min Scan# 749
Delta R.T. -0.000 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion: 94 Resp: 164246

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 45.0 | 16.9 | 56.9 |
| 66 | 74.8 | 36.5 | 76.5 |

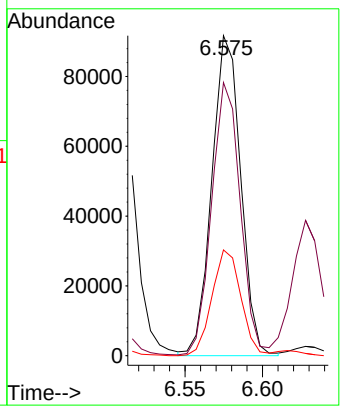





#11
bis(2-Chloroethyl)ether
Concen: 36.171 ng
RT: 6.575 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion: 93 Resp: 11870

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 85.4 | 65.3 | 105.3 |
| 95 | 33.0 | 12.4 | 52.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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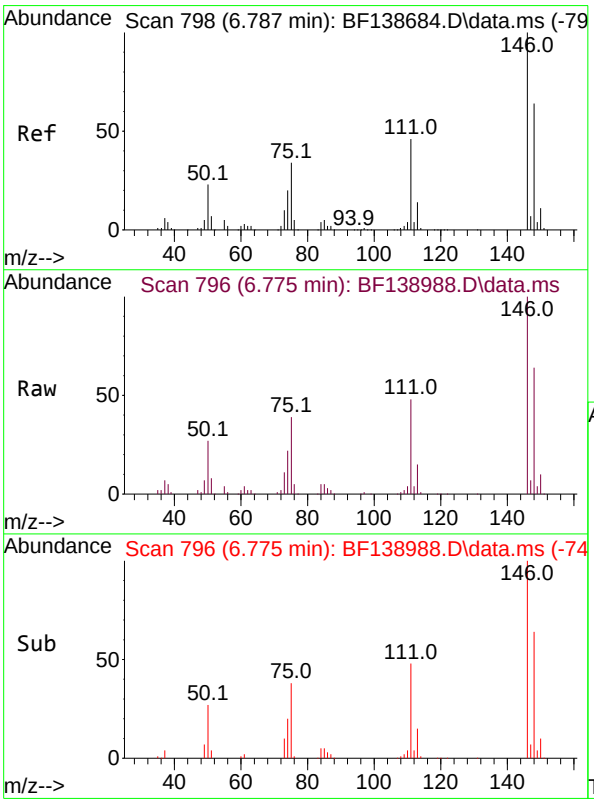
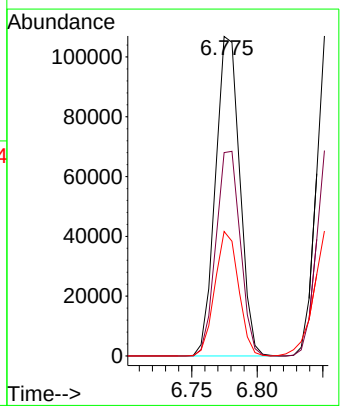
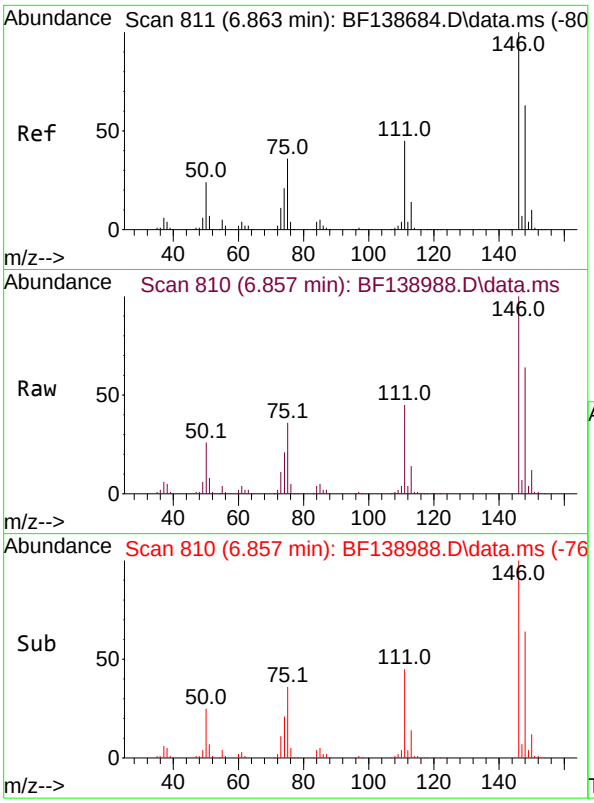



#12
1,3-Dichlorobenzene
Concen: 38.642 ng
RT: 6.775 min Scan# 796
Delta R.T. -0.012 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:146 Resp: 137294

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 63.6 | 51.2 | 76.8 |
| 75 | 39.0 | 27.4 | 41.2 |

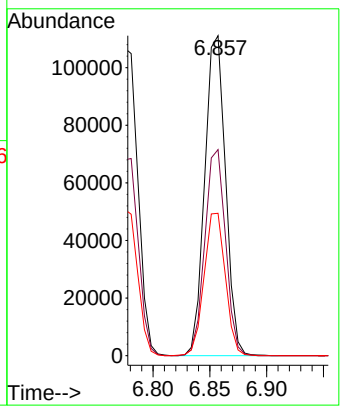





#13
1,4-Dichlorobenzene
Concen: 39.481 ng
RT: 6.857 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:146 Resp: 14156

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 64.4 | 50.2 | 75.2 |
| 111 | 44.5 | 35.9 | 53.9 |




**Instrument :**
BNA_F
**ClientSampleId :**
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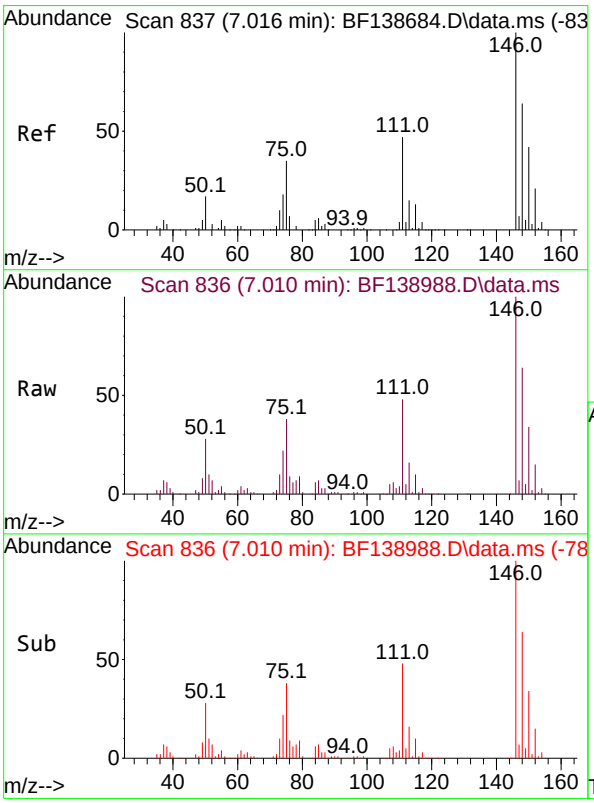
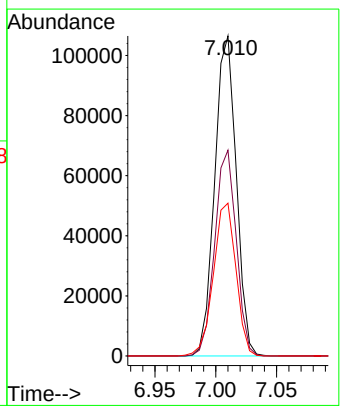
Supervised By :mohammad ahmed 08/16/2024

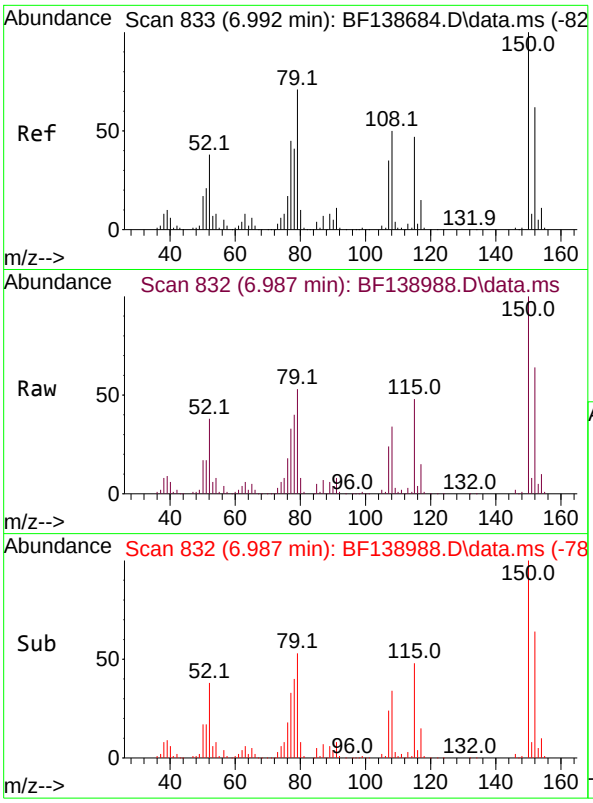



#14
1,2-Dichlorobenzene
Concen: 39.221 ng
RT: 7.010 min Scan# 836
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:146 Resp: 131427

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 64.3 | 50.8 | 76.2 |
| 111 | 47.8 | 37.4 | 56.2 |






#15
Benzyl Alcohol
Concen: 41.229 ng
RT: 6.987 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion: 79 Resp: 12035

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 108 | 65.1 | 56.6 | 85.0 |
| 77 | 62.9 | 50.3 | 75.5 |

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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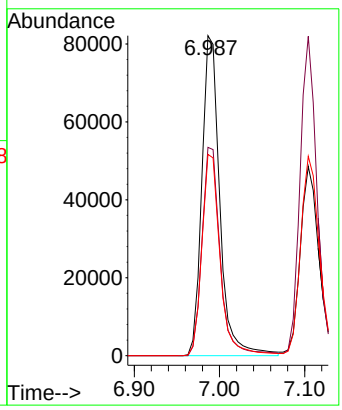
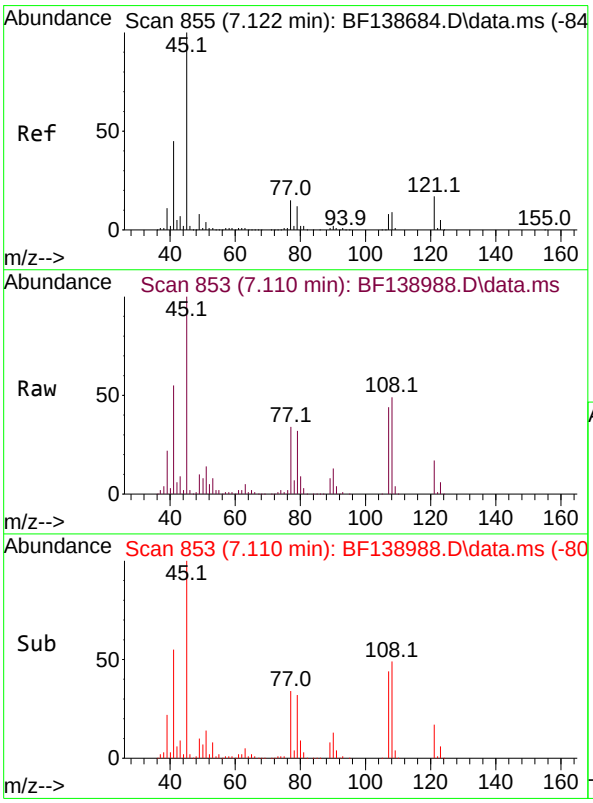
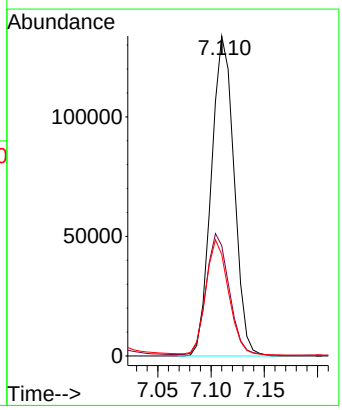


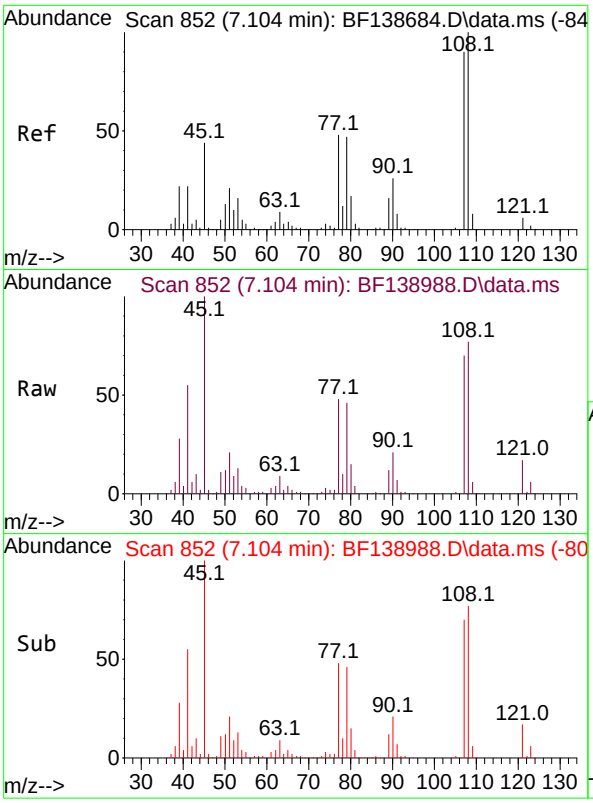




#16
2,2'-oxybis(1-Chloropropane)
Concen: 35.200 ng
RT: 7.110 min Scan# 853
Delta R.T. -0.012 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion: 45 Resp: 198801

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 77 | 34.5 | 0.0 | 34.9 |
| 79 | 31.7 | 0.0 | 32.2 |

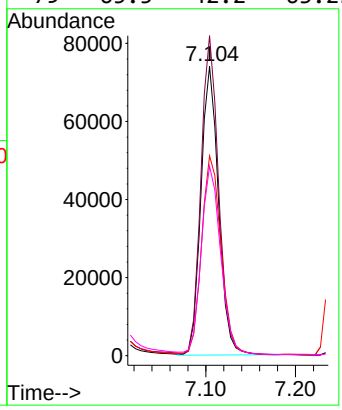





#17
2-Methylphenol
Concen: 38.428 ng
RT: 7.104 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:107 Resp: 10071

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 110.6 | 89.2 | 133.8 |
| 77 | 69.0 | 43.0 | 64.4# |
| 79 | 65.5 | 42.2 | 63.2# |

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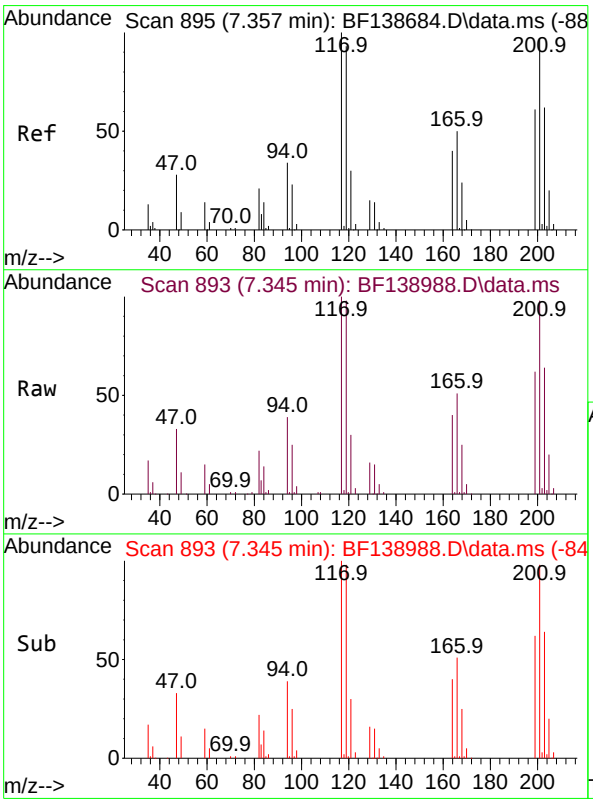
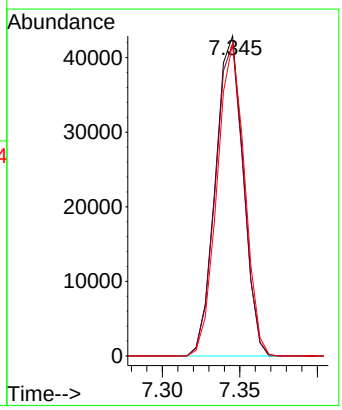
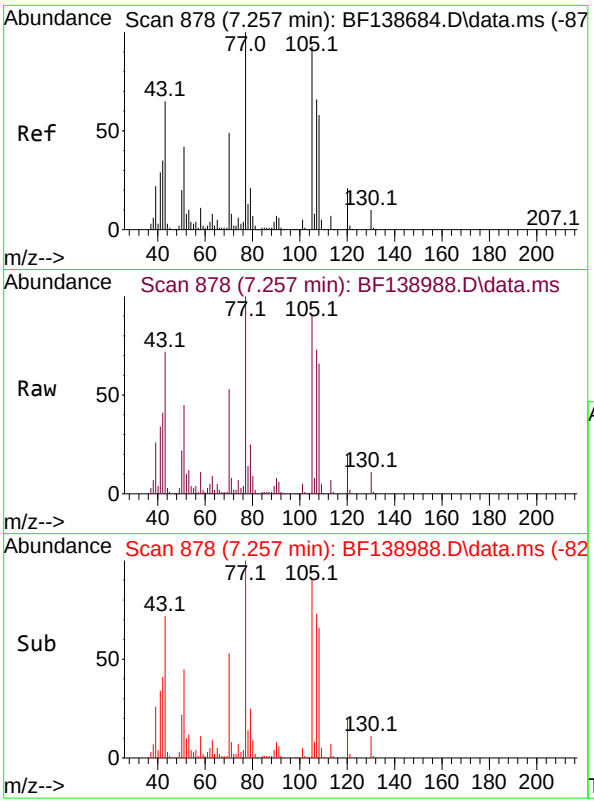



#18
Hexachloroethane
Concen: 39.720 ng
RT: 7.345 min Scan# 893
Delta R.T. -0.012 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:117 Resp: 53609

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 97.6 | 74.6 | 111.8 |
| 201 | 97.8 | 77.2 | 115.8 |

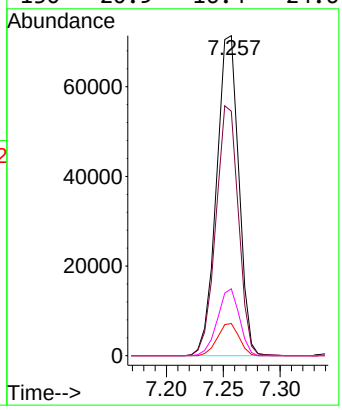





#19
n-Nitroso-di-n-propylamine
Concen: 39.876 ng
RT: 7.257 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion: 70 Resp: 9755

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 42 | 76.4 | 57.4 | 86.0 |
| 101 | 10.0 | 7.5 | 11.3 |
| 130 | 20.9 | 16.4 | 24.6 |




**Instrument :**
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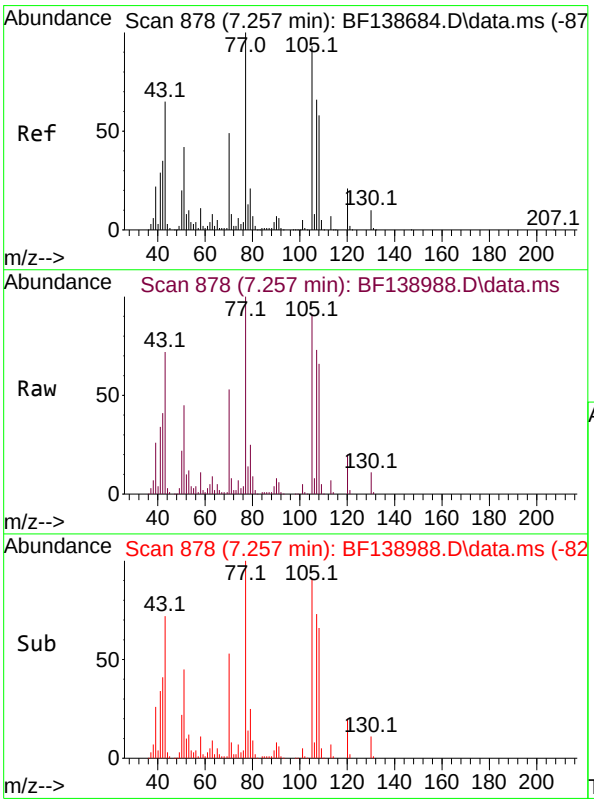
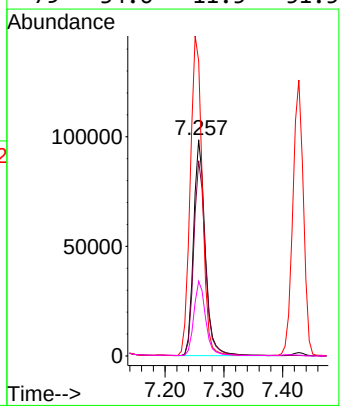
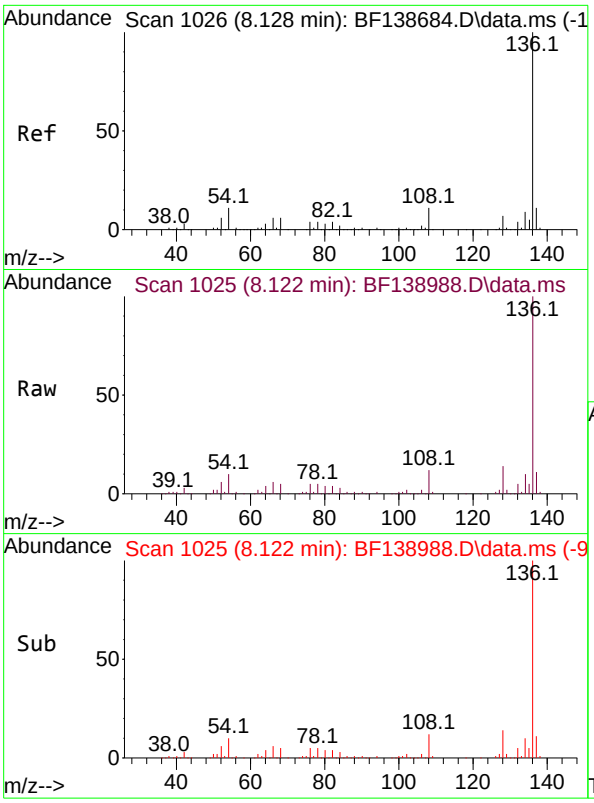



#20
3+4-Methylphenols
Concen: 40.386 ng
RT: 7.257 min Scan# 878
Delta R.T. -0.000 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:107 Resp: 135810

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 90.3 | 68.2 | 108.2 |
| 77 | 136.4 | 132.1 | 172.1 |
| 79 | 34.6 | 11.5 | 51.5 |

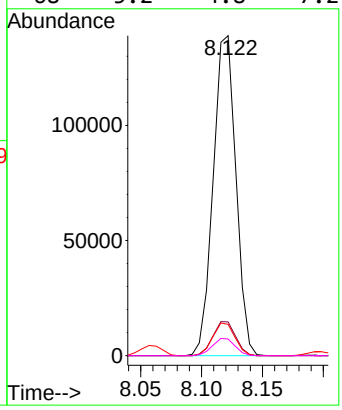





#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.122 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:136 Resp: 18039

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.6 | 8.9 | 13.3 |
| 54 | 9.8 | 8.6 | 12.8 |
| 68 | 5.2 | 4.8 | 7.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
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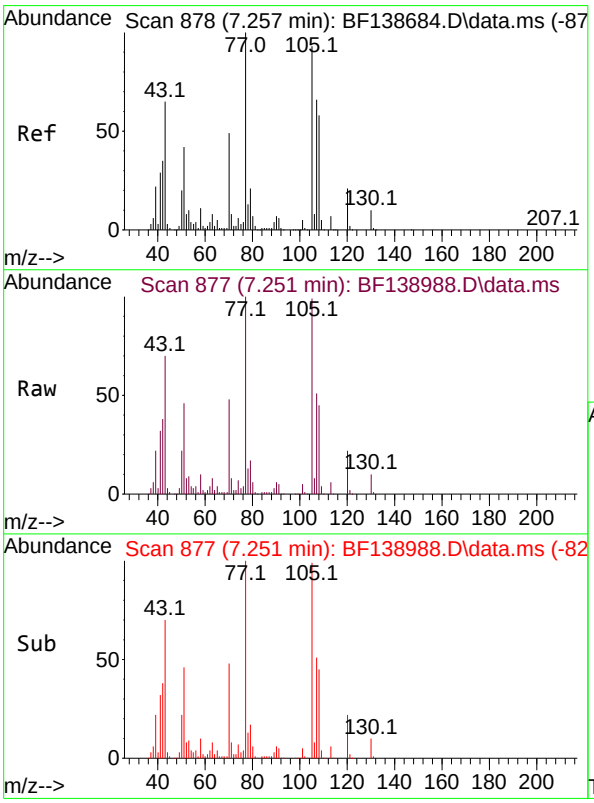
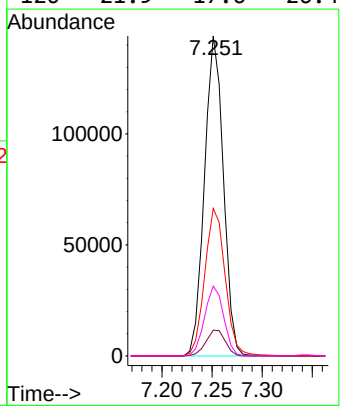
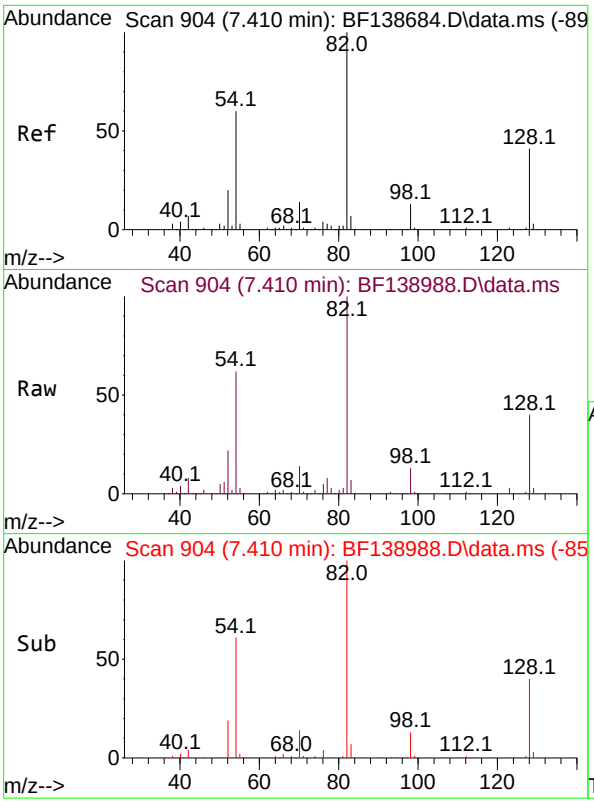



#22
Acetophenone
Concen: 42.932 ng
RT: 7.251 min Scan# 877
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:105 Resp: 189628

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 71 | 8.0 | 7.2 | 10.8 |
| 51 | 46.1 | 35.9 | 53.9 |
| 120 | 21.9 | 17.6 | 26.4 |






#23
Nitrobenzene-d5
Concen: 84.071 ng
RT: 7.410 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion: 82 Resp: 31019

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 40.3 | 32.8 | 49.2 |
| 54 | 62.4 | 48.3 | 72.5 |

**Instrument :**
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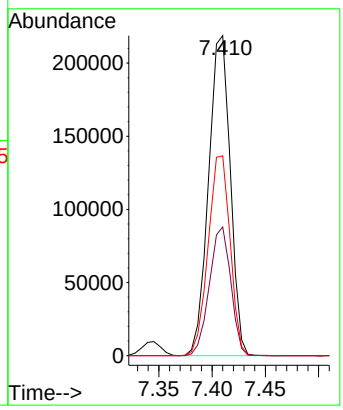
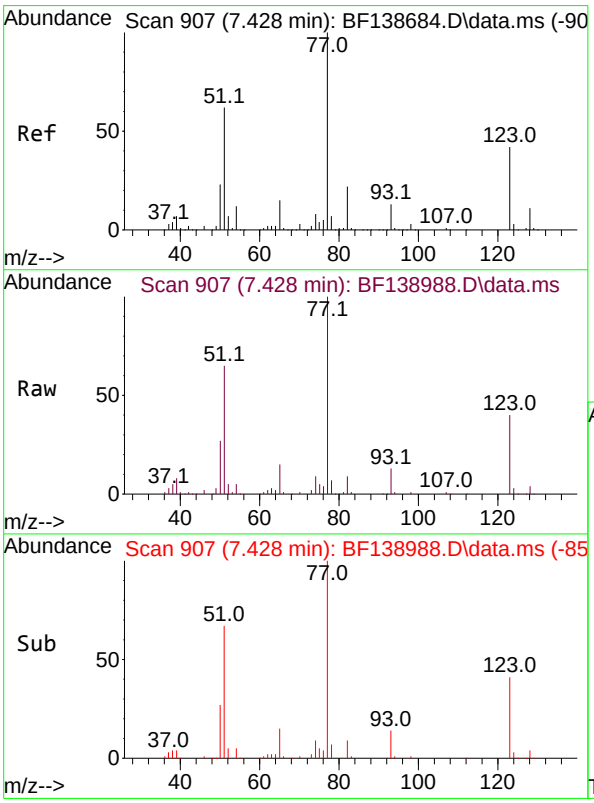
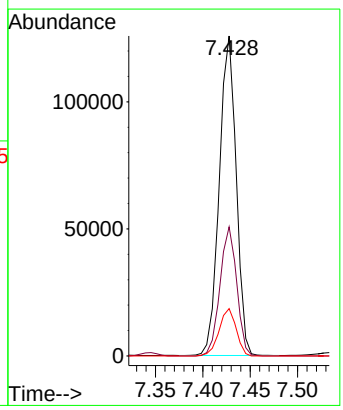


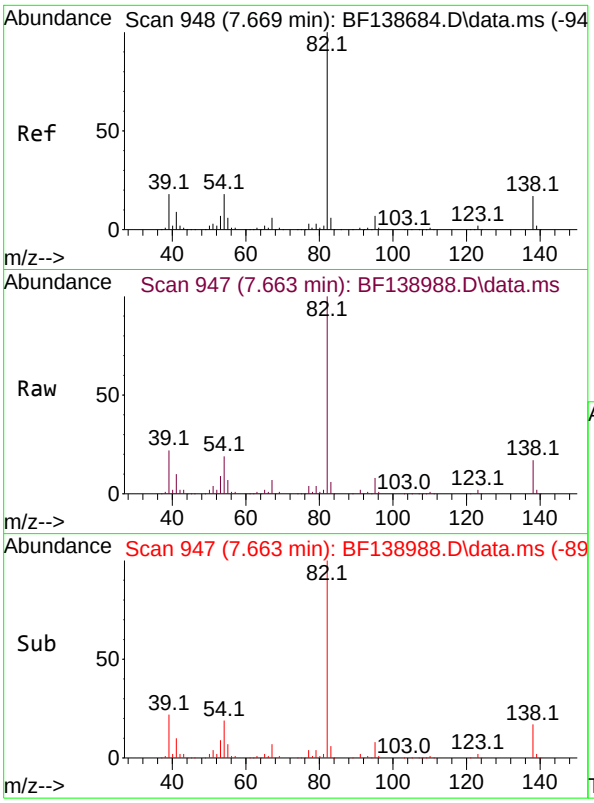




#24
Nitrobenzene
Concen: 41.674 ng
RT: 7.428 min Scan# 907
Delta R.T. -0.000 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion: 77 Resp: 156466

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 123 | 40.3 | 33.3 | 49.9 |
| 65 | 14.8 | 11.9 | 17.9 |

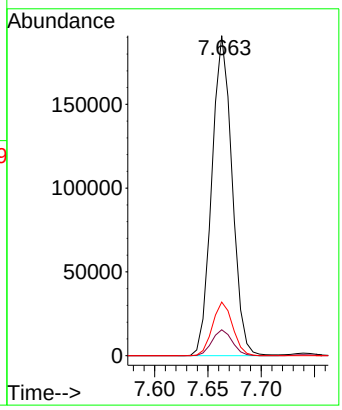





#25
Isophorone
Concen: 40.170 ng
RT: 7.663 min Scan# 94
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion: 82 Resp: 25308

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 95 | 8.1 | 5.7 | 8.5 |
| 138 | 16.7 | 13.7 | 20.5 |




**Instrument :**
BNA_F
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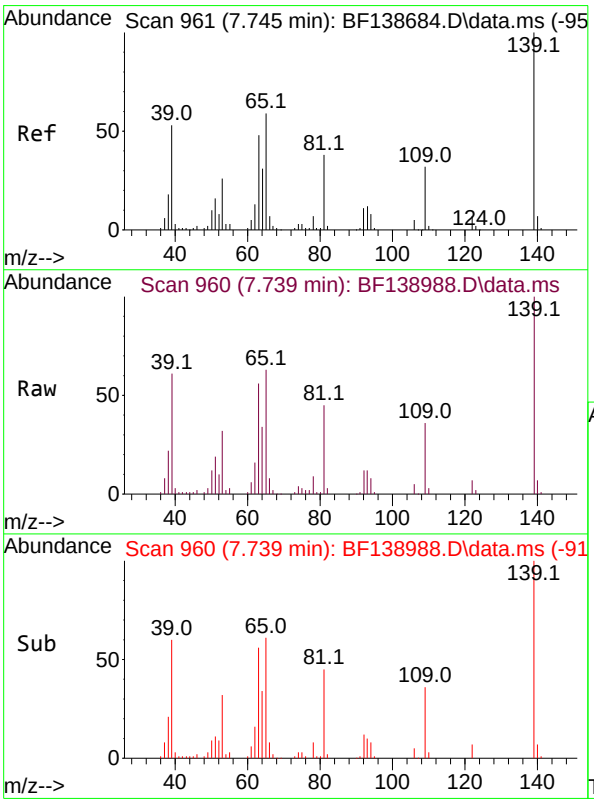
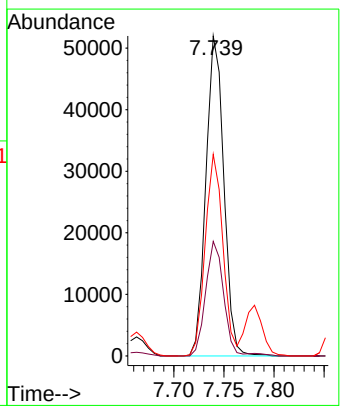
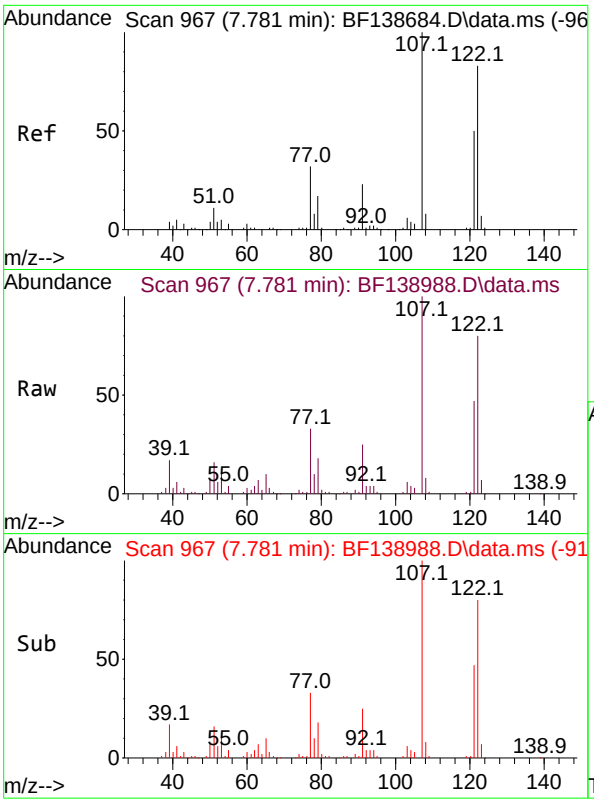



#26
2-Nitrophenol
Concen: 40.063 ng
RT: 7.739 min Scan# 960
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:139 Resp: 64715

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 35.8 | 25.9 | 38.9 |
| 65 | 63.0 | 47.0 | 70.6 |

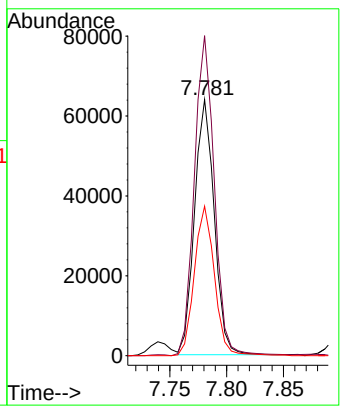





#27
2,4-Dimethylphenol
Concen: 39.859 ng
RT: 7.781 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:122 Resp: 7703

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 107 | 125.0 | 95.0 | 142.6 |
| 121 | 58.3 | 47.3 | 70.9 |




**Instrument :**
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SSTDCCC040

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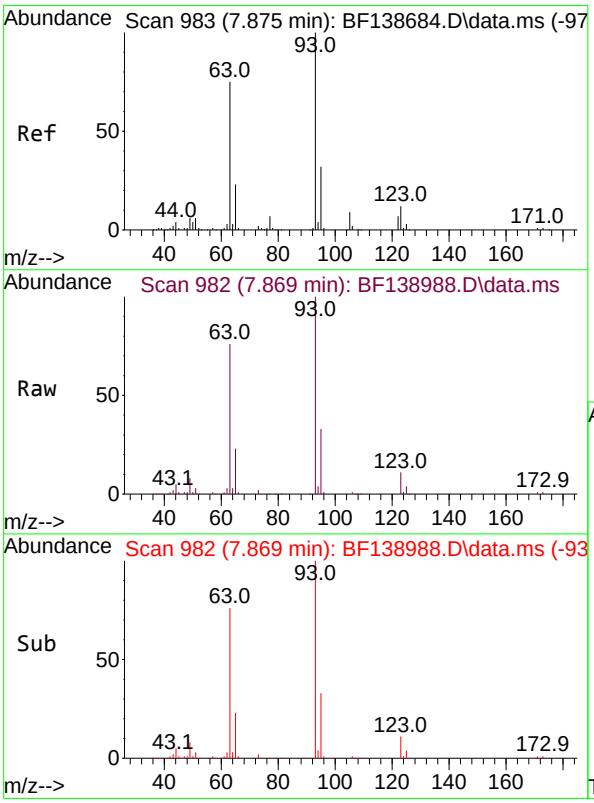
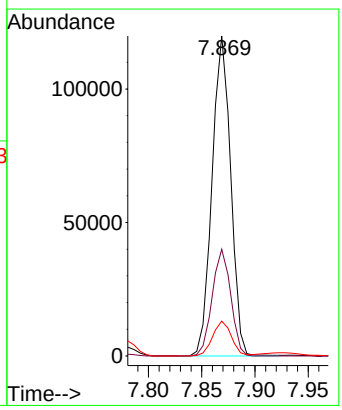
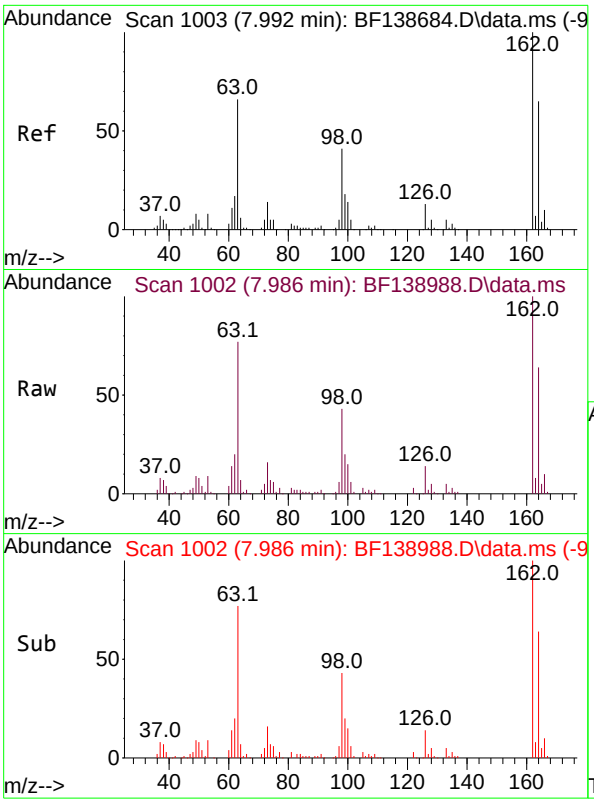



#28
bis(2-Chloroethoxy)methane
Concen: 38.016 ng
RT: 7.869 min Scan# 982
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion: 93 Resp: 145855

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 33.3 | 25.8 | 38.8 |
| 123 | 10.9 | 9.4 | 14.0 |

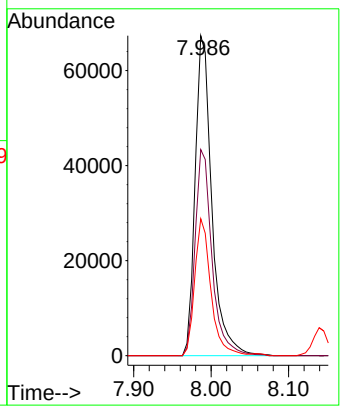





#29
2,4-Dichlorophenol
Concen: 40.610 ng
RT: 7.986 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:162 Resp: 10085

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 164 | 64.4 | 44.7 | 84.7 |
| 98 | 42.8 | 20.8 | 60.8 |




**Instrument :**
BNA_F
**ClientSampleId :**
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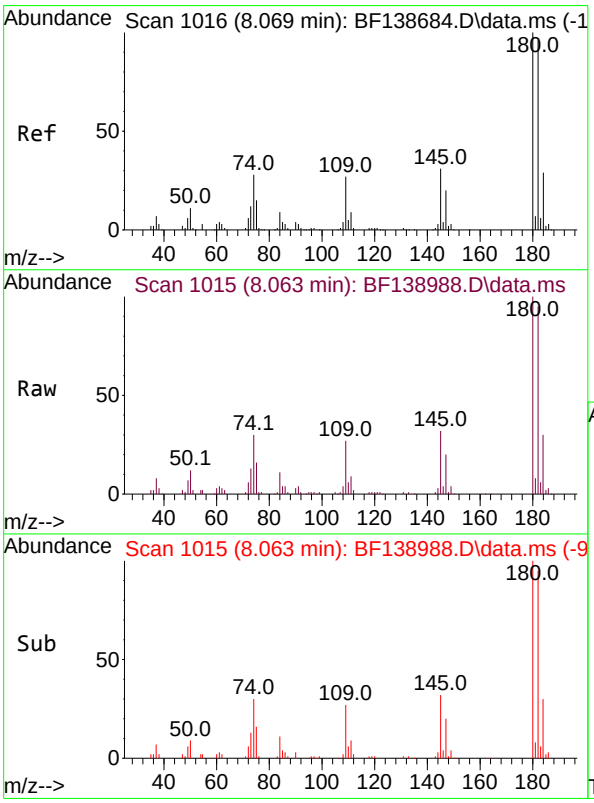
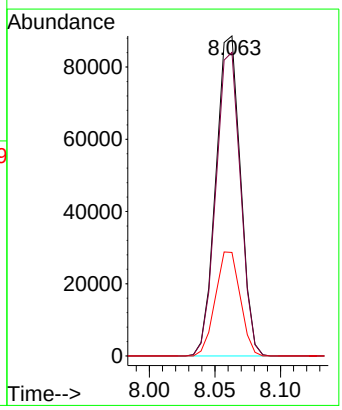
Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

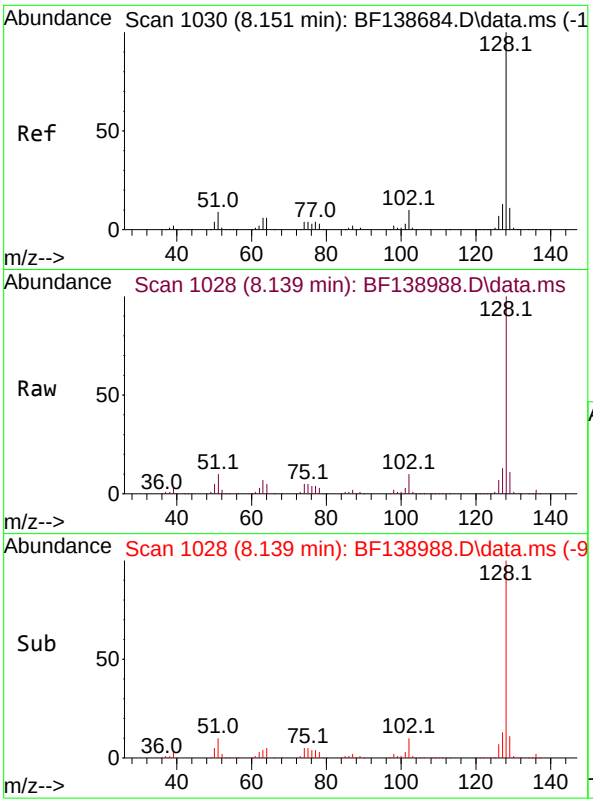



#30
1,2,4-Trichlorobenzene
Concen: 40.354 ng
RT: 8.063 min Scan# 1015
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:180 Resp: 115653

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.9 | 76.9 | 115.3 |
| 145 | 32.4 | 25.0 | 37.4 |

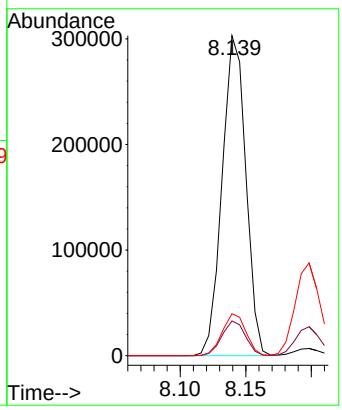





#31
Naphthalene
Concen: 40.153 ng
RT: 8.139 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:128 Resp: 38126

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 10.9 | 8.7 | 13.1 |
| 127 | 13.1 | 10.6 | 16.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

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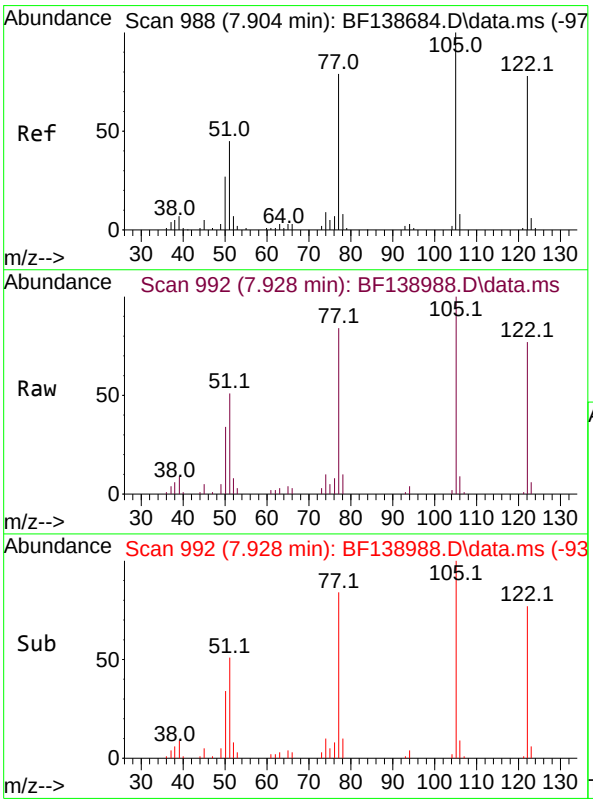
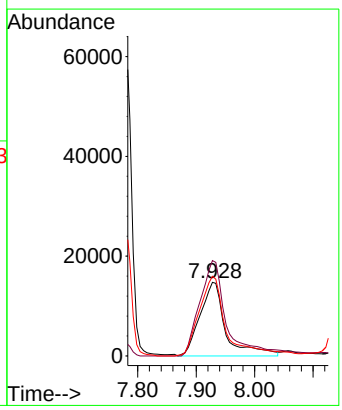
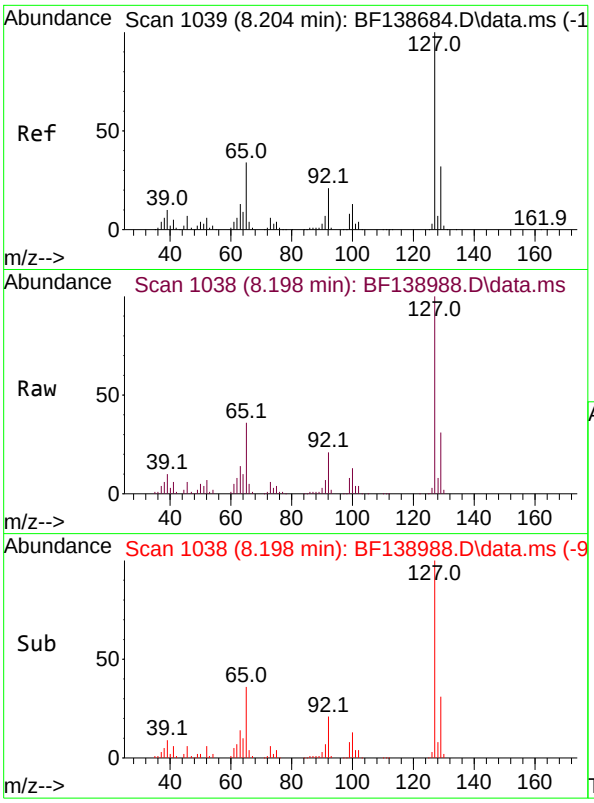



#32
Benzoic acid
Concen: 29.736 ng m
RT: 7.928 min Scan# 992
Delta R.T. 0.024 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:122 Resp: 45176

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 129.6 | 106.7 | 146.7 |
| 77 | 108.4 | 81.1 | 121.1 |

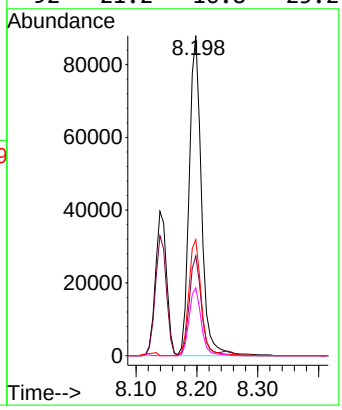





#33
4-Chloroaniline
Concen: 38.457 ng
RT: 8.198 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:127 Resp: 12257

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 31.2 | 25.9 | 38.9 |
| 65 | 36.3 | 27.6 | 41.4 |
| 92 | 21.2 | 16.8 | 25.2 |




**Instrument :**
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SSTDCCC040

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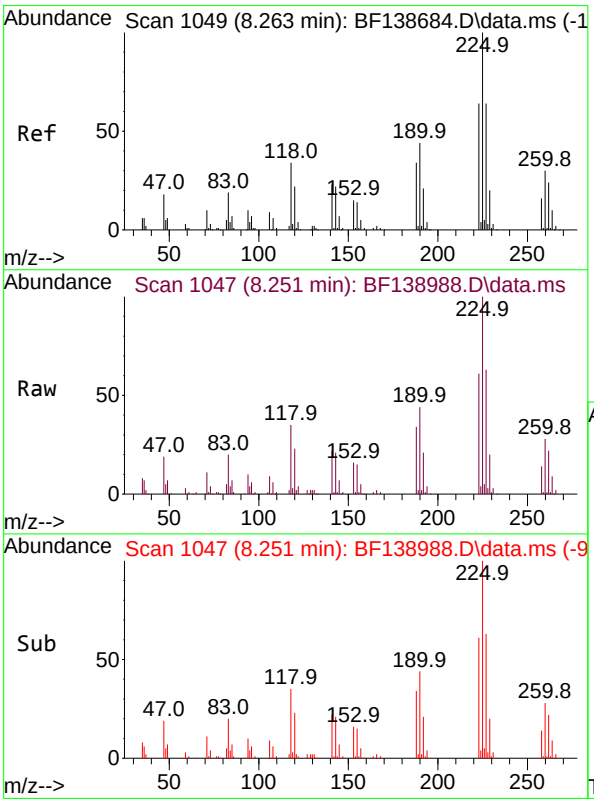
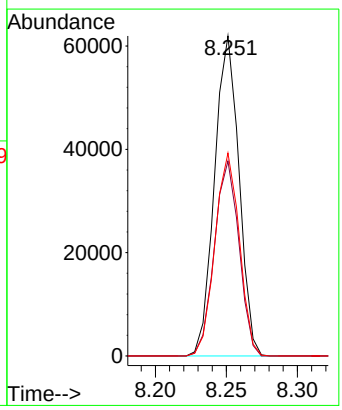
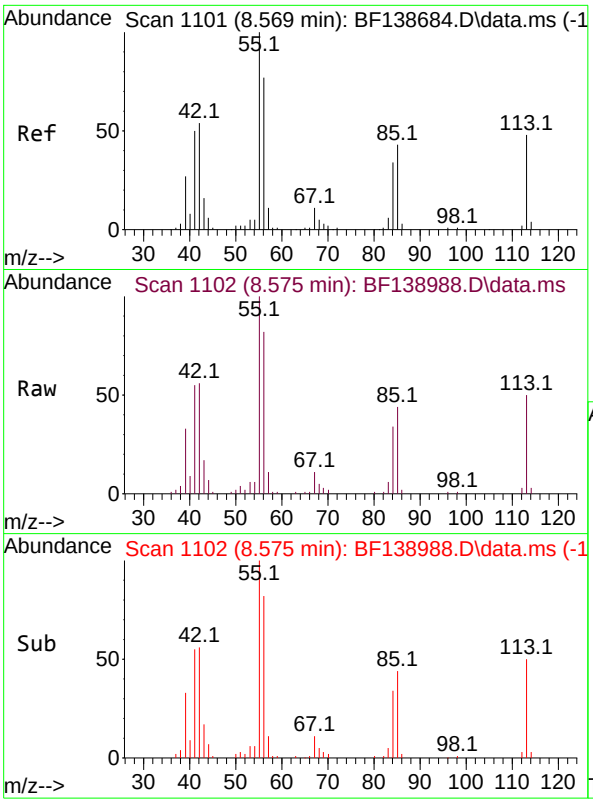



#34
Hexachlorobutadiene
Concen: 42.681 ng
RT: 8.251 min Scan# 1047
Delta R.T. -0.012 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:225 Resp: 74090

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 60.9 | 51.2 | 76.8 |
| 227 | 63.4 | 51.1 | 76.7 |

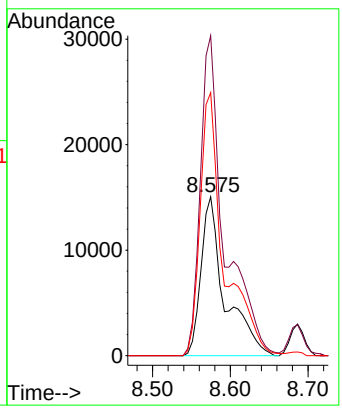





#35
Caprolactam
Concen: 43.423 ng m
RT: 8.575 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:113 Resp: 3217

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 55 | 201.3 | 186.7 | 226.7 |
| 56 | 165.5 | 138.9 | 178.9 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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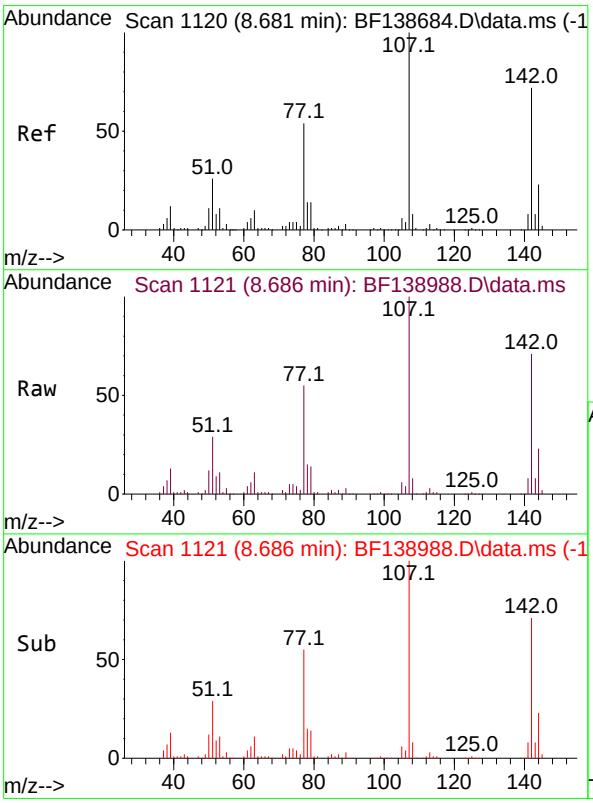
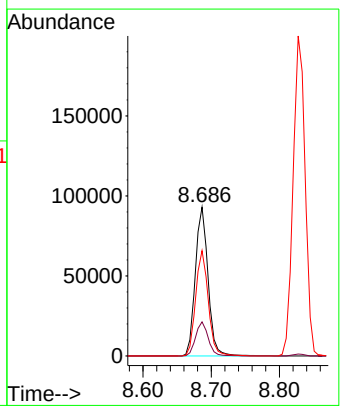
Supervised By :mohammad ahmed 08/16/2024

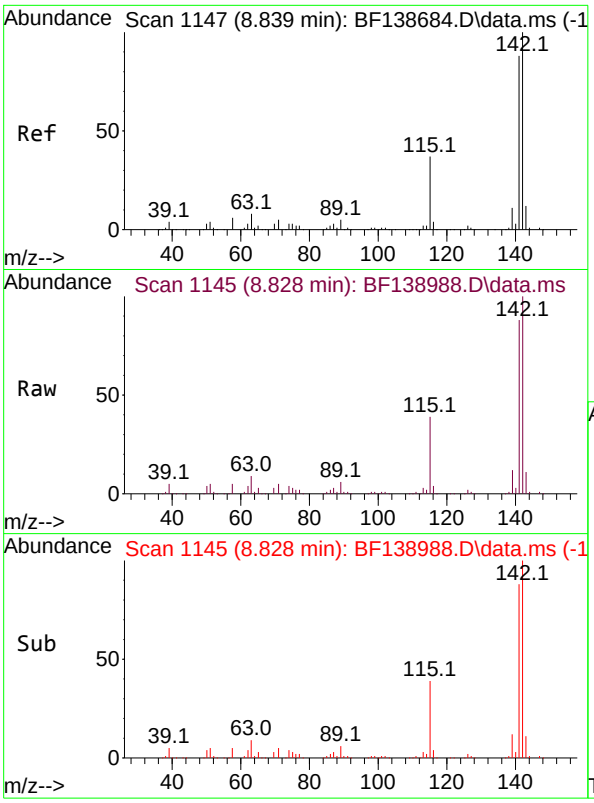



#36
4-Chloro-3-methylphenol
Concen: 42.436 ng
RT: 8.686 min Scan# 1121
Delta R.T. 0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:107 Resp: 120444

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 144 | 22.9 | 18.2 | 27.2 |
| 142 | 70.7 | 57.4 | 86.2 |

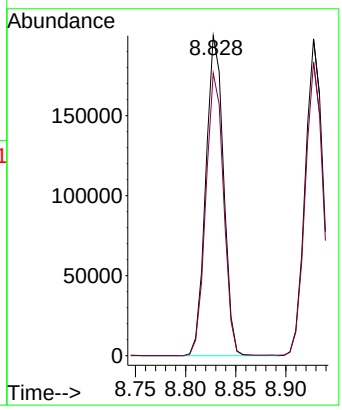





#37
2-Methylnaphthalene
Concen: 40.974 ng
RT: 8.828 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:142 Resp: 24571

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 88.3 | 70.8 | 106.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

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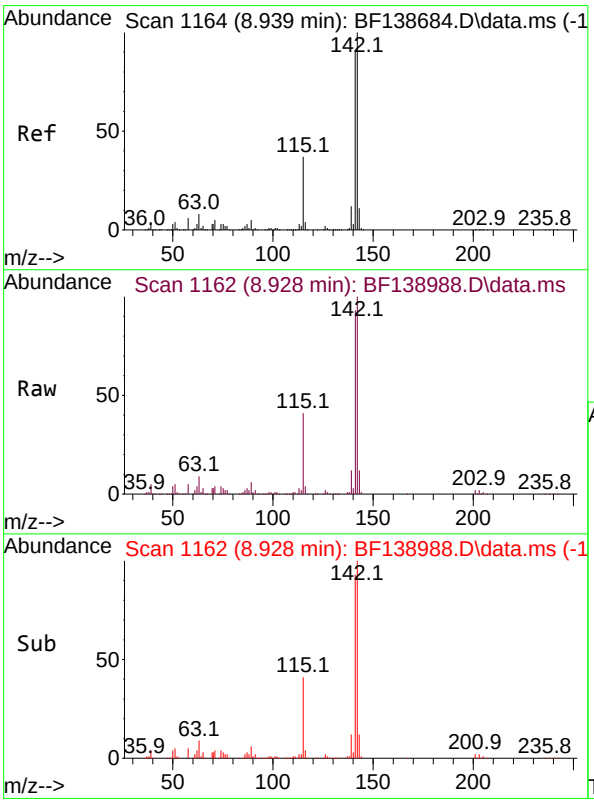
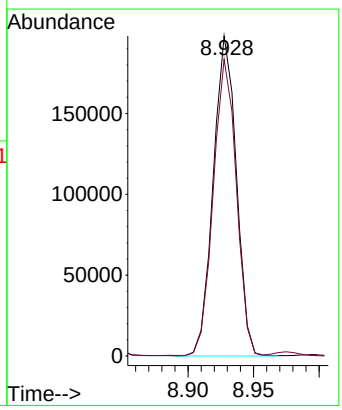
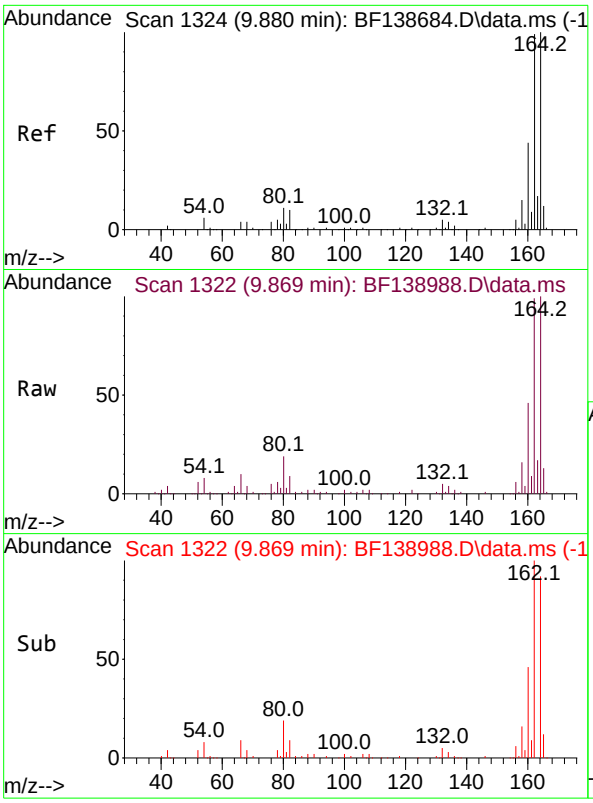



#38
1-Methylnaphthalene
Concen: 41.175 ng
RT: 8.928 min Scan# 1162
Delta R.T. -0.012 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:142 Resp: 241962

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 92.7 | 73.1 | 109.7 |

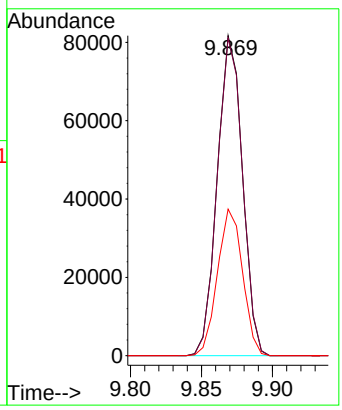





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.869 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:164 Resp: 10075

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 99.3 | 79.4 | 119.0 |
| 160 | 45.8 | 35.1 | 52.7 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

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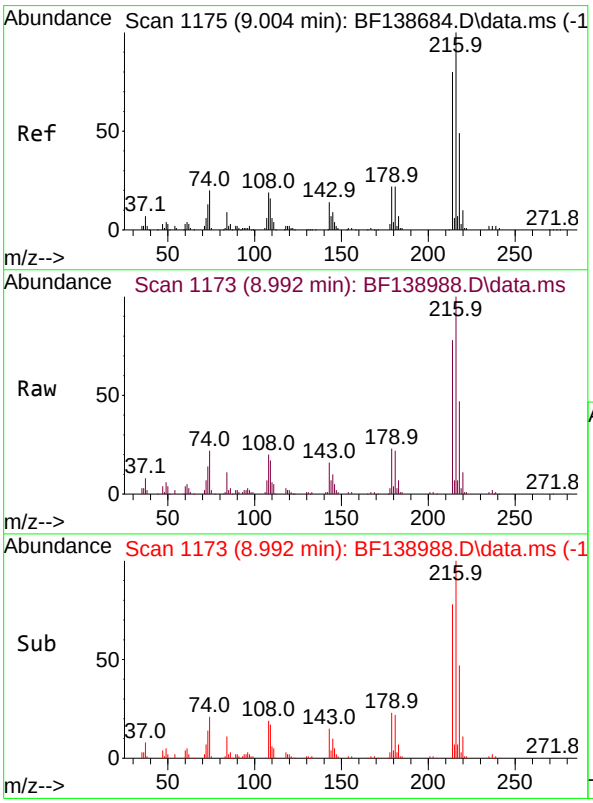
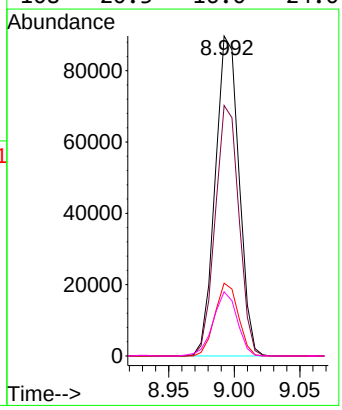
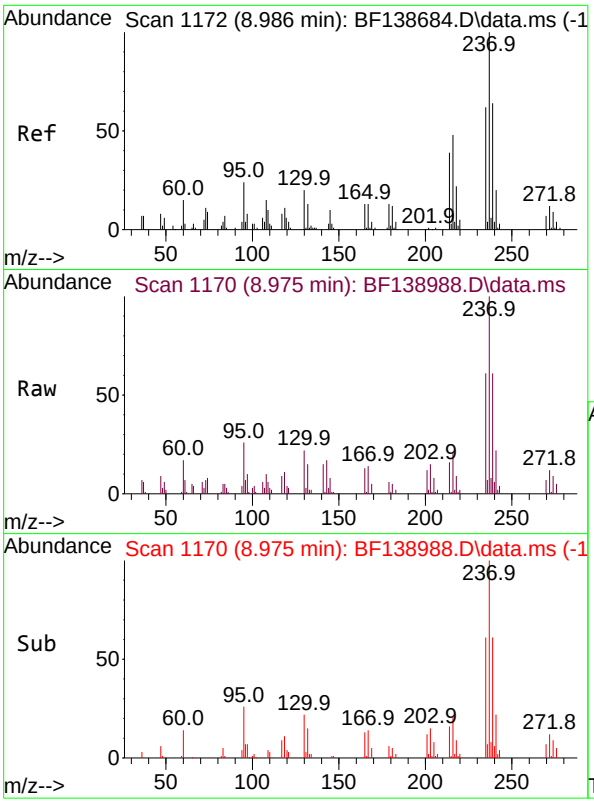



#40
1,2,4,5-Tetrachlorobenzene
Concen: 40.349 ng
RT: 8.992 min Scan# 1173
Delta R.T. -0.012 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:216 Resp: 112930

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 216 | 100 | | |
| 214 | 77.8 | 63.9 | 95.9 |
| 179 | 22.4 | 17.8 | 26.6 |
| 108 | 20.3 | 16.0 | 24.0 |

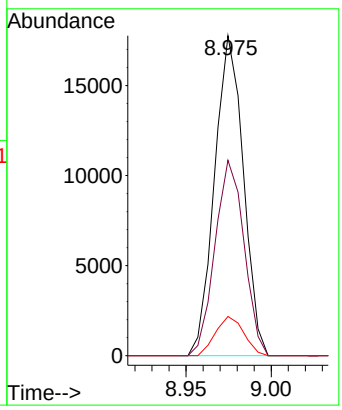





#41
Hexachlorocyclopentadiene
Concen: 32.674 ng
RT: 8.975 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:237 Resp: 2086

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 237 | 100 | | |
| 235 | 61.1 | 41.8 | 81.8 |
| 272 | 12.2 | 0.0 | 32.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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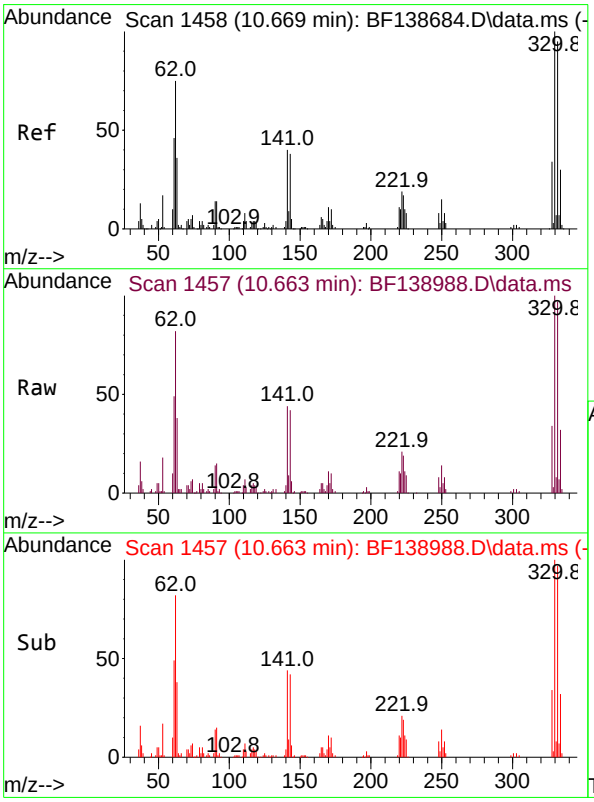
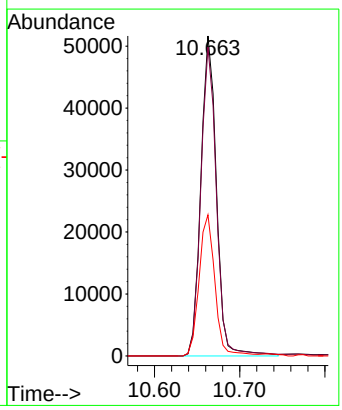
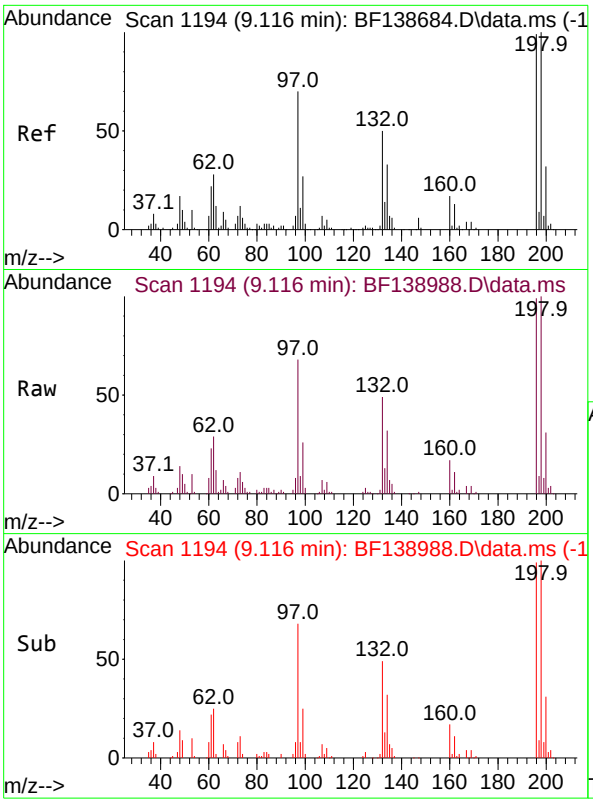



#42
2,4,6-Tribromophenol
Concen: 79.472 ng
RT: 10.663 min Scan# 1457
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:330 Resp: 65588

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.7 | 76.4 | 114.6 |
| 141 | 44.7 | 31.1 | 46.7 |

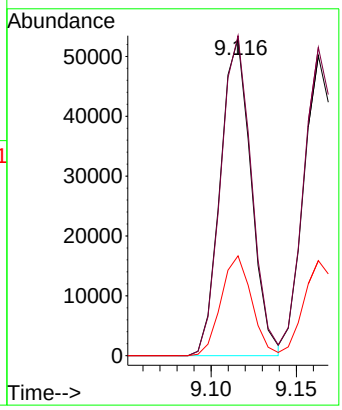





#43
2,4,6-Trichlorophenol
Concen: 39.096 ng
RT: 9.116 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:196 Resp: 6671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 100.9 | 80.5 | 120.7 |
| 200 | 31.5 | 25.9 | 38.9 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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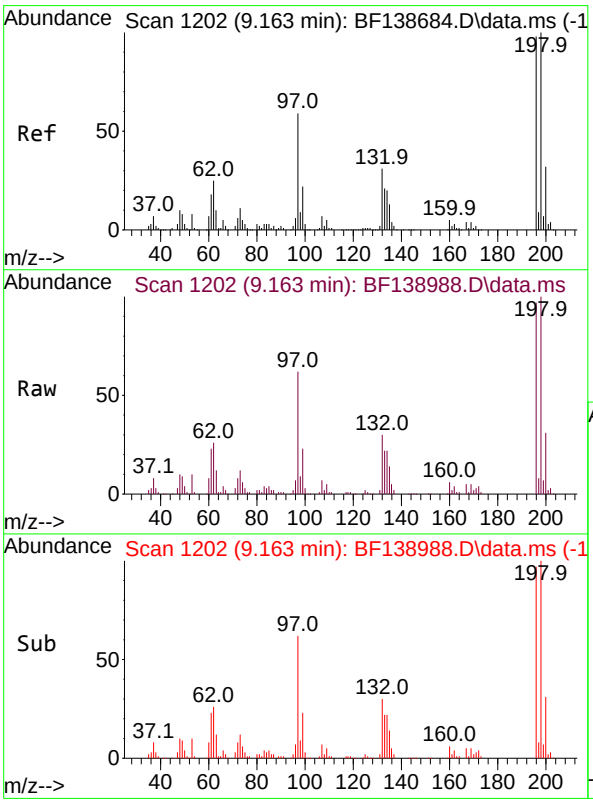
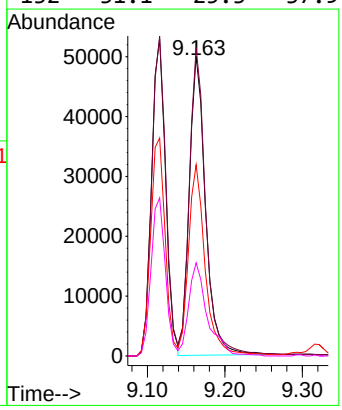
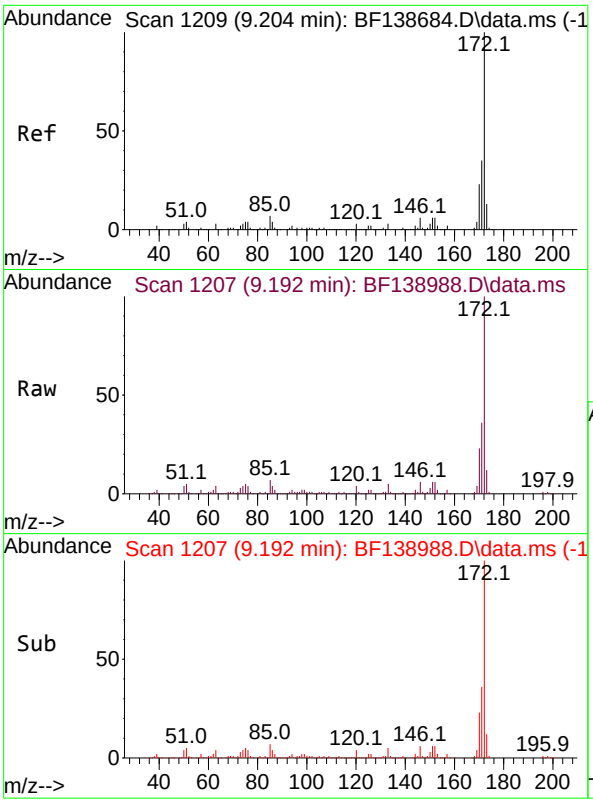



#44
2,4,5-Trichlorophenol
Concen: 38.990 ng
RT: 9.163 min Scan# 1202
Delta R.T. -0.000 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:196 Resp: 72737

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 102.8 | 81.2 | 121.8 |
| 97 | 63.7 | 47.8 | 71.6 |
| 132 | 31.1 | 25.3 | 37.9 |

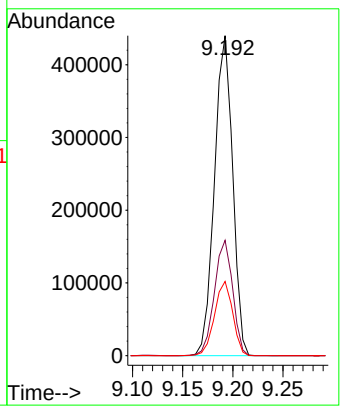





#45
2-Fluorobiphenyl
Concen: 82.676 ng
RT: 9.192 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:172 Resp: 55440

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.0 | 28.3 | 42.5 |
| 170 | 23.2 | 18.8 | 28.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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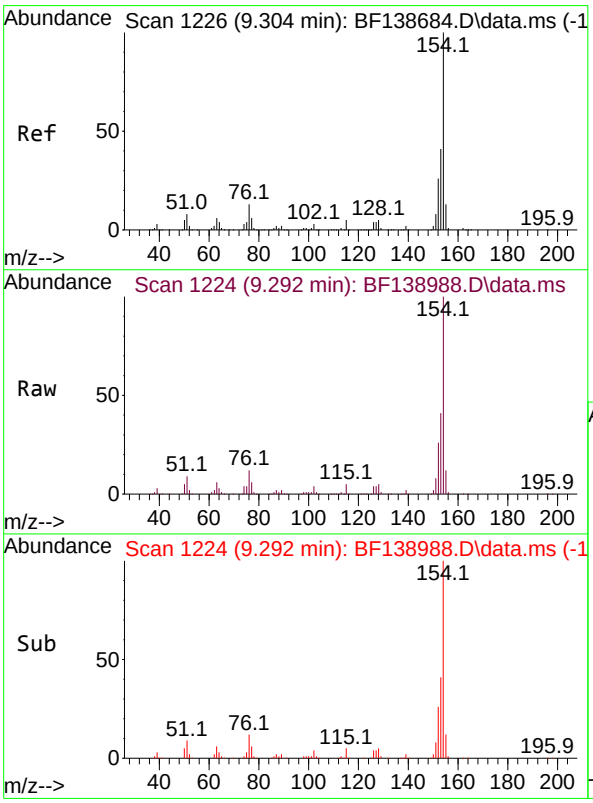
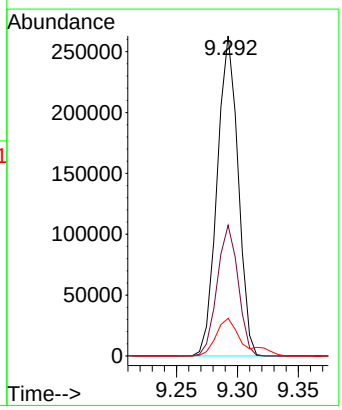
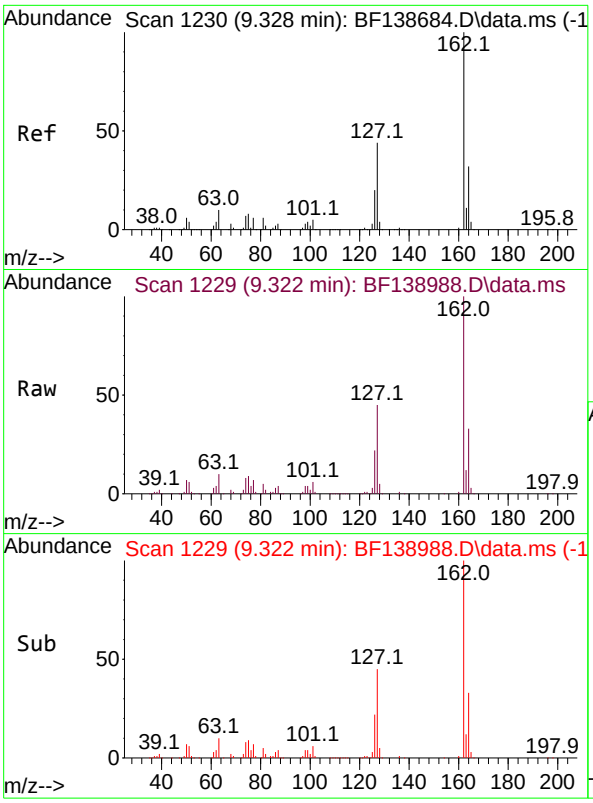



#46
1,1'-Biphenyl
Concen: 39.920 ng
RT: 9.292 min Scan# 1224
Delta R.T. -0.012 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:154 Resp: 314999

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 40.9 | 20.8 | 60.8 |
| 76 | 11.8 | 0.0 | 32.8 |

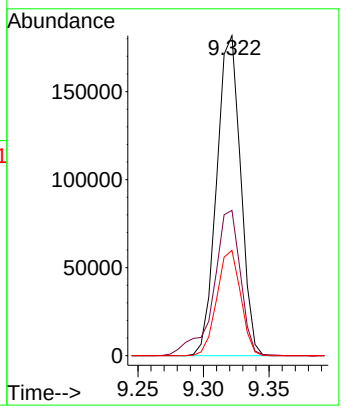





#47
2-Chloronaphthalene
Concen: 39.241 ng
RT: 9.322 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:162 Resp: 23029

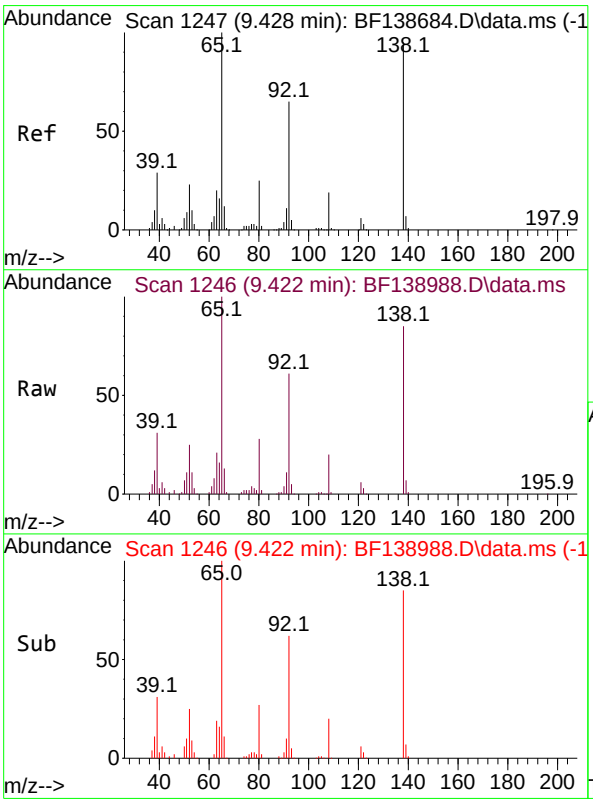
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 127 | 45.4 | 35.4 | 53.2 |
| 164 | 32.9 | 25.6 | 38.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
**APPROVED**

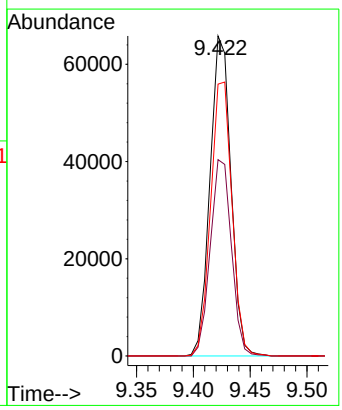
Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

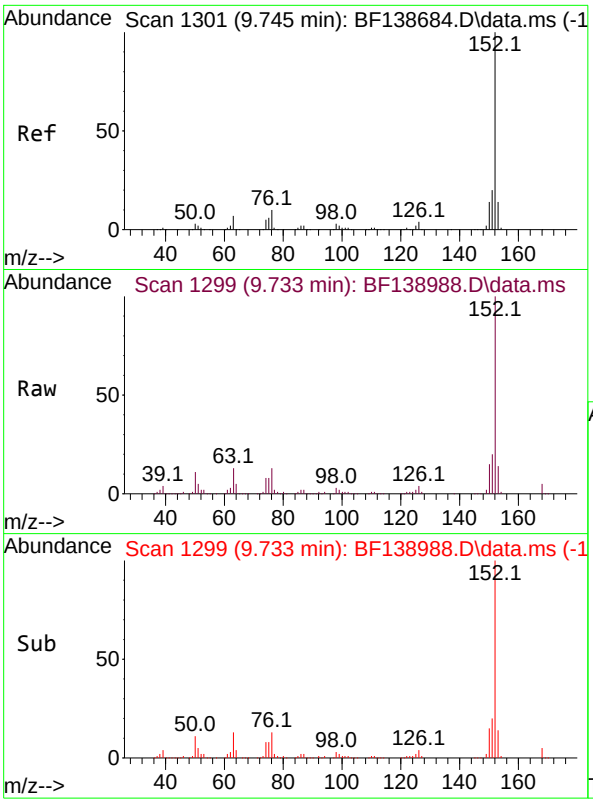



#48
2-Nitroaniline
Concen: 42.361 ng
RT: 9.422 min Scan# 1246
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion: 65 Resp: 84279

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 92 | 61.3 | 52.0 | 78.0 |
| 138 | 84.9 | 76.2 | 114.4 |

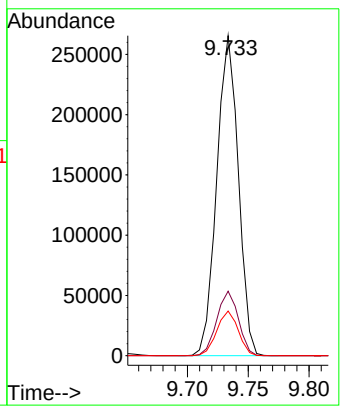





#49
Acenaphthylene
Concen: 39.371 ng
RT: 9.733 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:152 Resp: 32770

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.1 | 16.0 | 24.0 |
| 153 | 14.0 | 11.0 | 16.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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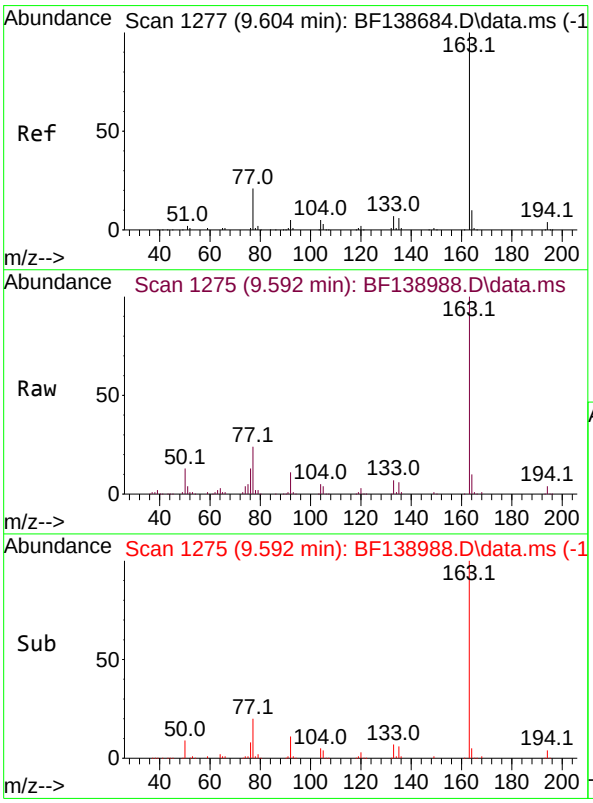
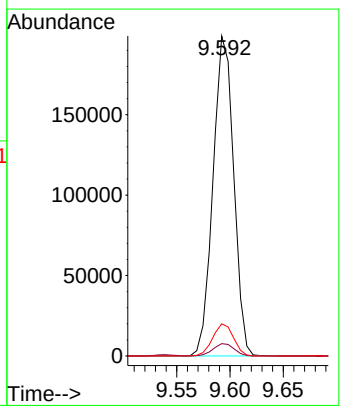
Supervised By :mohammad ahmed 08/16/2024

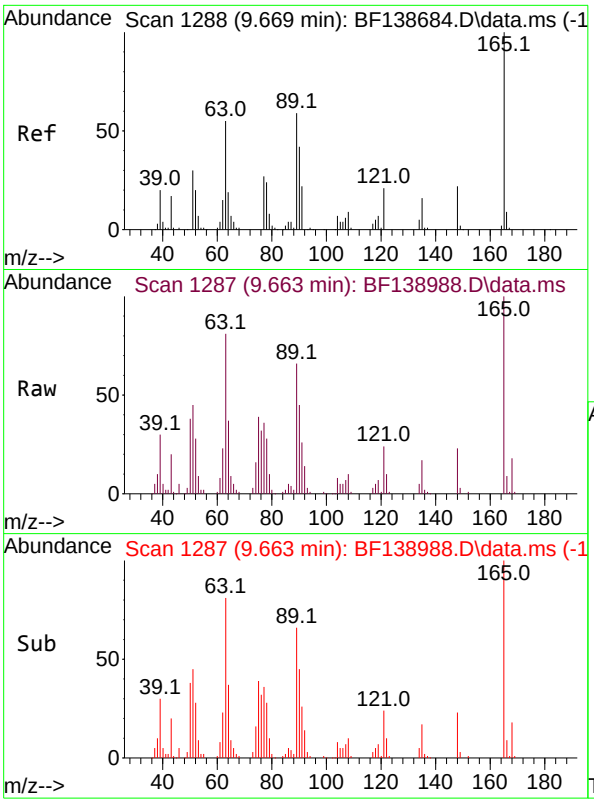



#50
Dimethylphthalate
Concen: 41.594 ng
RT: 9.592 min Scan# 1275
Delta R.T. -0.012 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:163 Resp: 267963

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 3.9 | 3.1 | 4.7 |
| 164 | 10.1 | 7.8 | 11.8 |

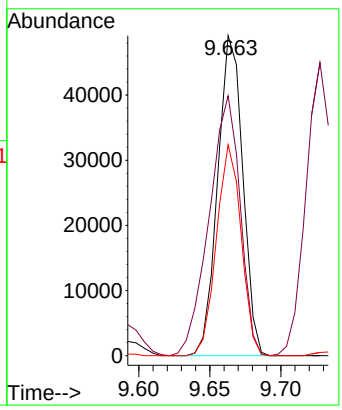





#51
2,6-Dinitrotoluene
Concen: 41.487 ng
RT: 9.663 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:165 Resp: 6031

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 81.2 | 52.0 | 78.0 |
| 89 | 65.9 | 47.0 | 70.6 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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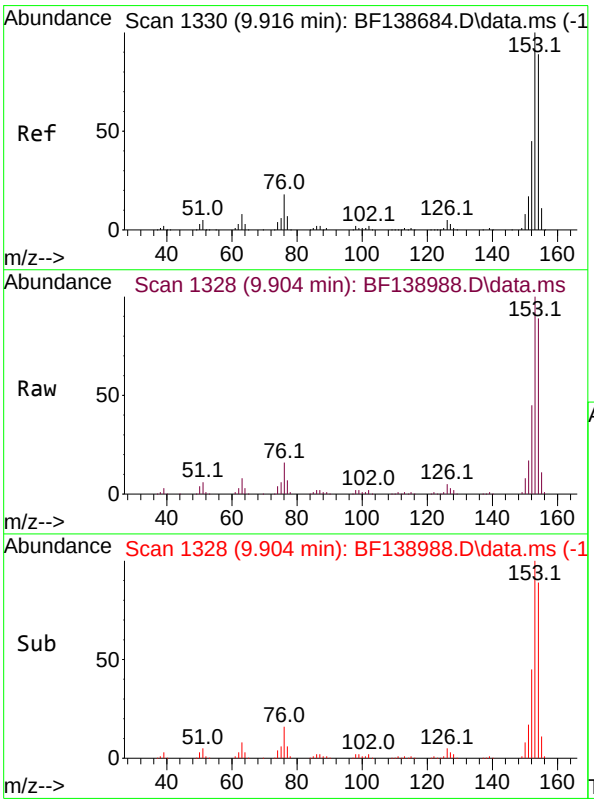
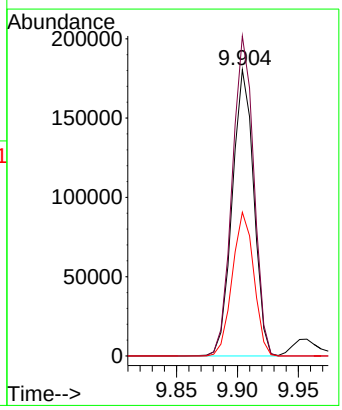
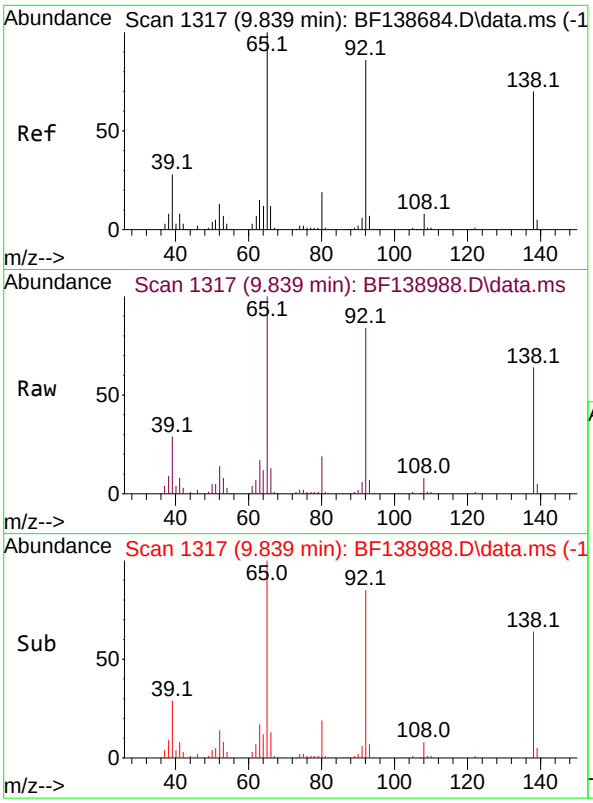



#52
Acenaphthene
Concen: 39.648 ng
RT: 9.904 min Scan# 1328
Delta R.T. -0.012 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:154 Resp: 221840

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 111.8 | 89.9 | 134.9 |
| 152 | 50.2 | 40.6 | 60.8 |






#53
3-Nitroaniline
Concen: 38.446 ng
RT: 9.839 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:138 Resp: 5778

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 108 | 12.2 | 9.1 | 13.7 |
| 92 | 132.2 | 98.7 | 148.1 |

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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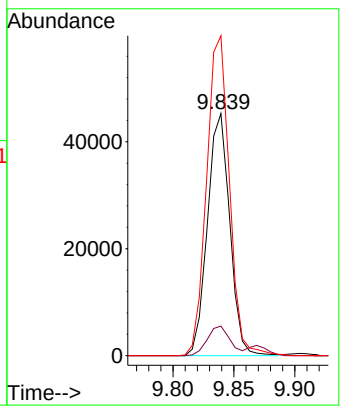
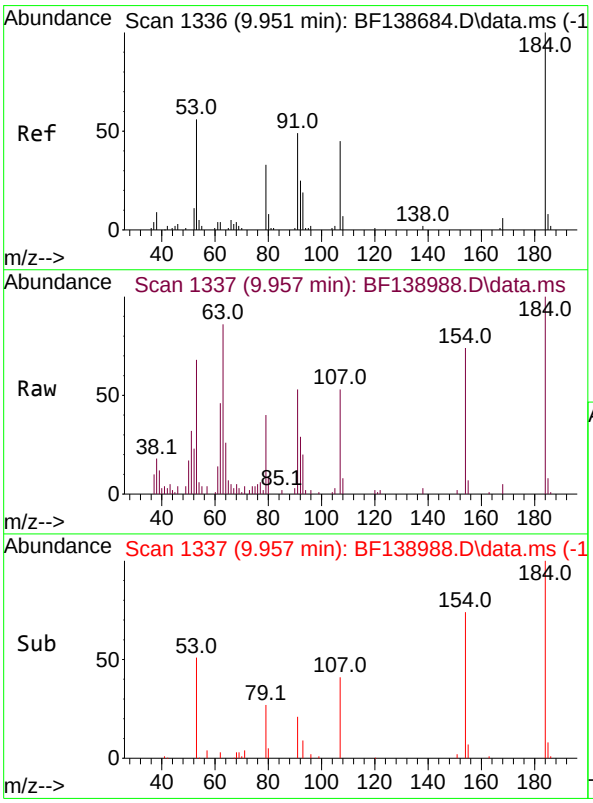
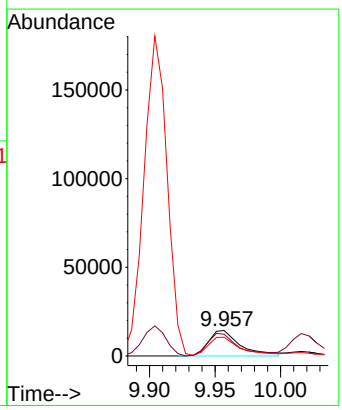


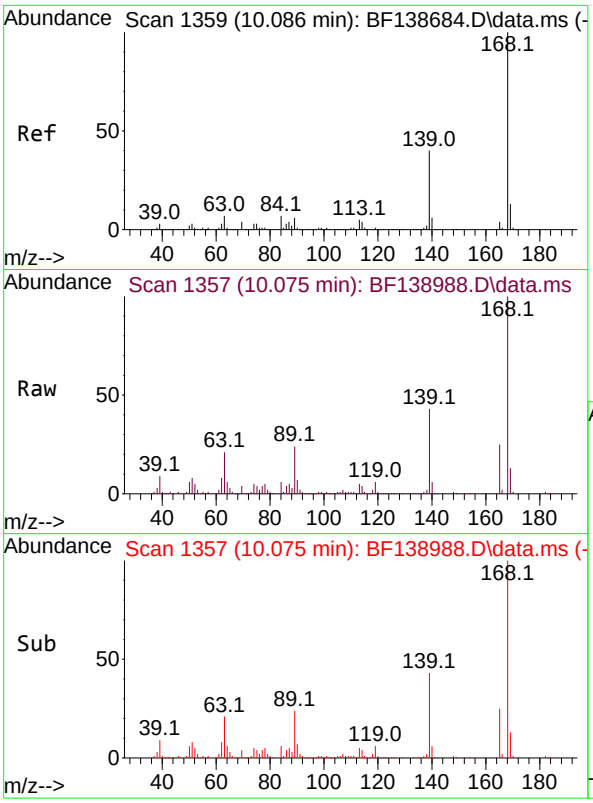




#54
2,4-Dinitrophenol
Concen: 36.052 ng
RT: 9.957 min Scan# 1337
Delta R.T. 0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:184 Resp: 24129

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 63 | 85.8 | 57.5 | 86.3 |
| 154 | 73.9 | 51.7 | 77.5 |

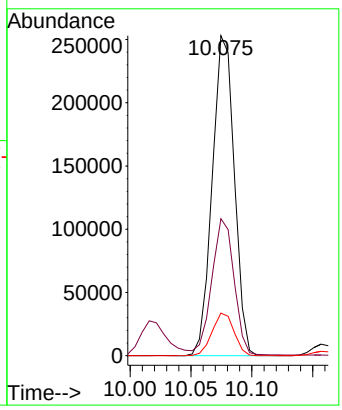





#55
Dibenzofuran
Concen: 40.425 ng
RT: 10.075 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:168 Resp: 31928

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 42.8 | 32.6 | 49.0 |
| 169 | 13.3 | 10.7 | 16.1 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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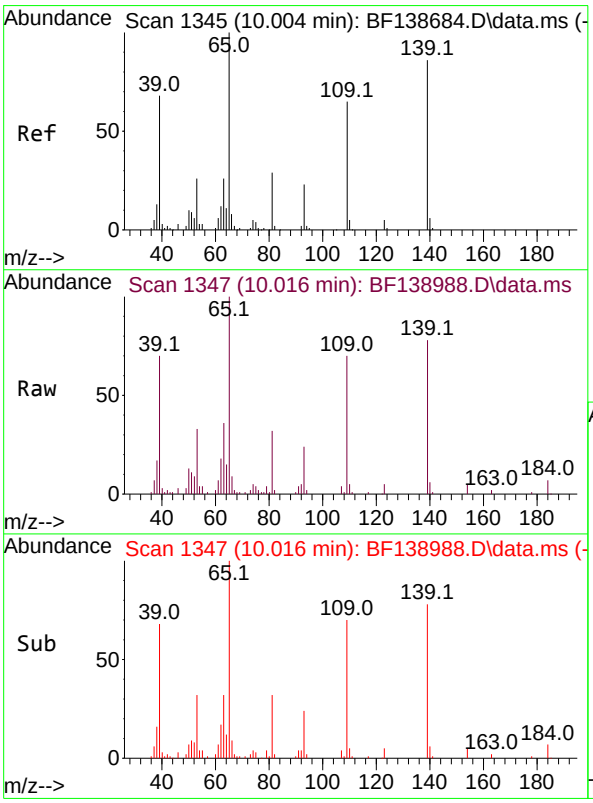
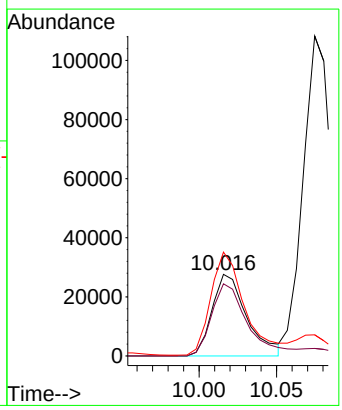
Supervised By :mohammad ahmed 08/16/2024

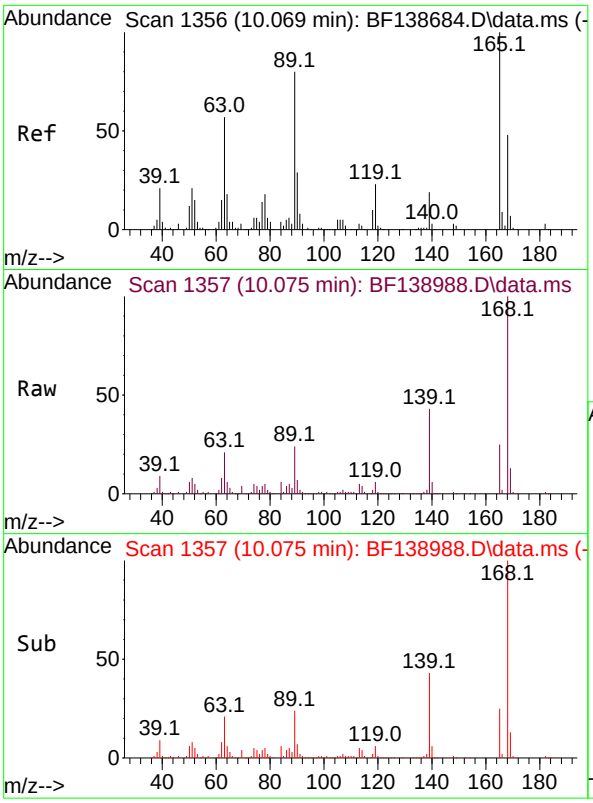



#56
4-Nitrophenol
Concen: 47.672 ng
RT: 10.016 min Scan# 1347
Delta R.T. 0.012 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:139 Resp: 43088

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 88.6 | 55.5 | 95.5 |
| 65 | 127.4 | 96.7 | 136.7 |

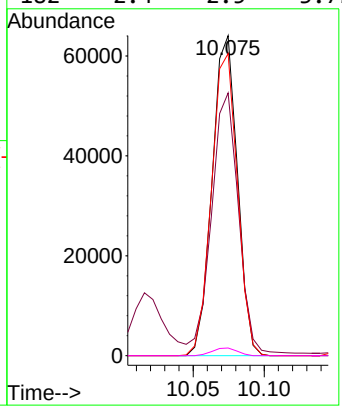





#57
2,4-Dinitrotoluene
Concen: 42.640 ng
RT: 10.075 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:165 Resp: 7909

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 82.1 | 46.3 | 69.5# |
| 89 | 94.4 | 64.2 | 96.4 |
| 182 | 2.4 | 2.5 | 3.7# |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

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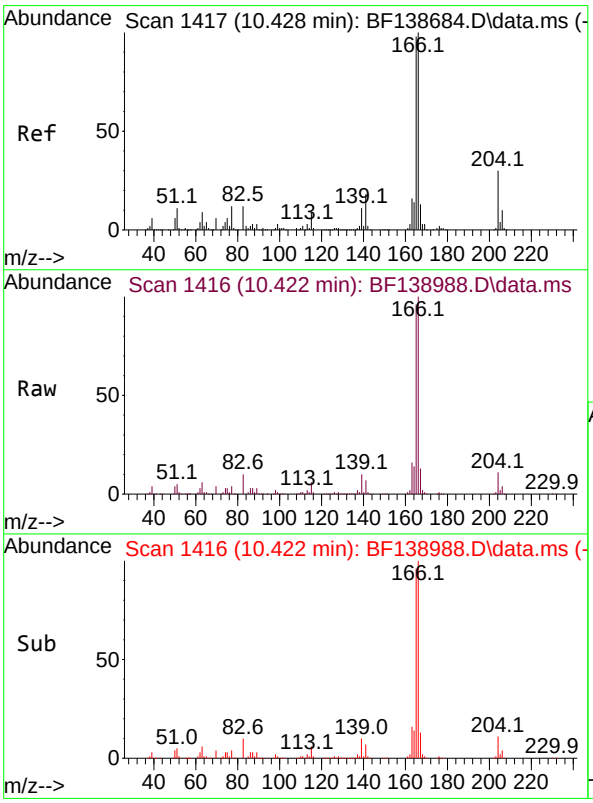
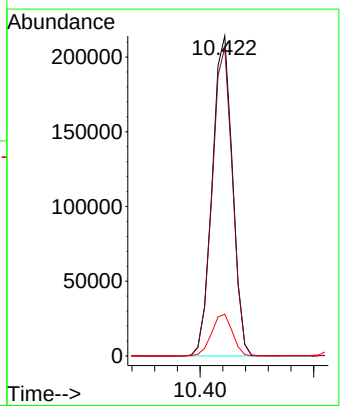
Supervised By :mohammad ahmed 08/16/2024

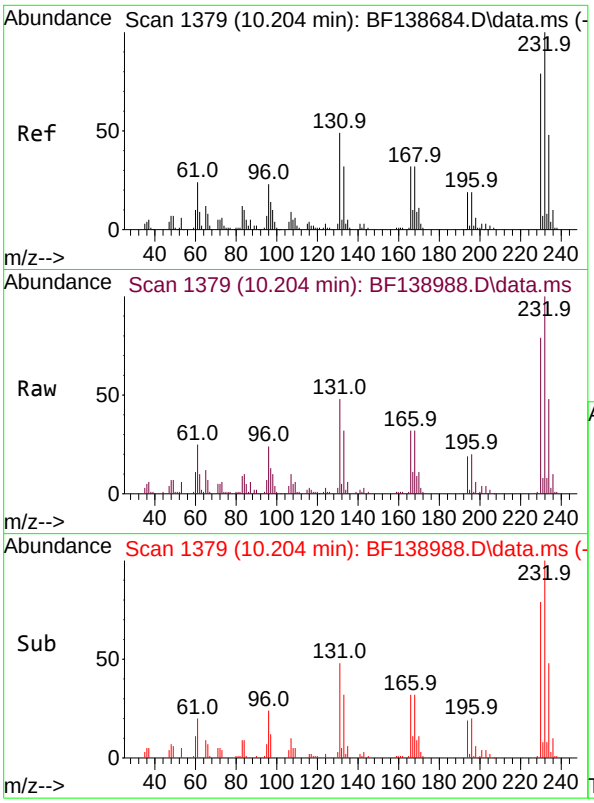



#58
Fluorene
Concen: 42.082 ng
RT: 10.422 min Scan# 1416
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:166 Resp: 264679

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 96.4 | 78.4 | 117.6 |
| 167 | 13.1 | 10.6 | 16.0 |

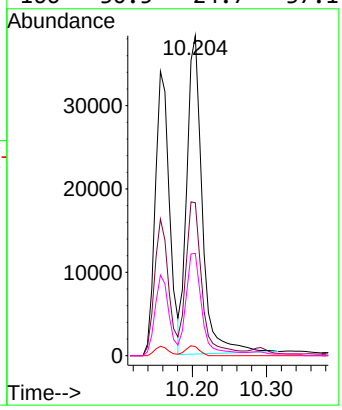





#59
2,3,4,6-Tetrachlorophenol
Concen: 38.824 ng
RT: 10.204 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:232 Resp: 5537

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 232 | 100 | | |
| 131 | 50.0 | 37.0 | 55.4 |
| 130 | 2.8 | 2.0 | 3.0 |
| 166 | 30.5 | 24.7 | 37.1 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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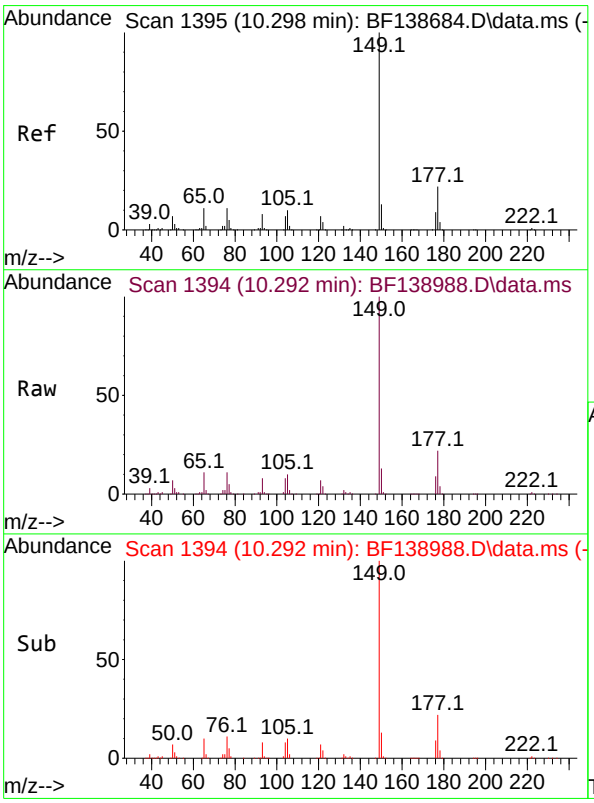
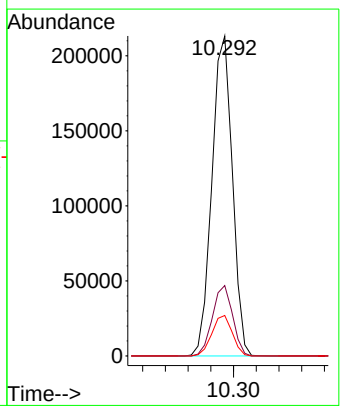
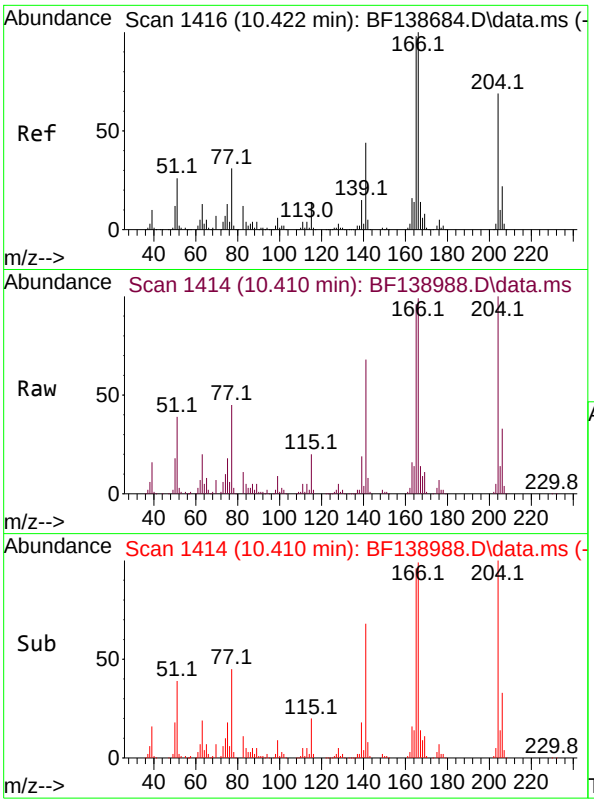



#60
Diethylphthalate
Concen: 43.665 ng
RT: 10.292 min Scan# 1394
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:149 Resp: 266725

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 177 | 22.0 | 17.8 | 26.8 |
| 150 | 12.6 | 10.1 | 15.1 |

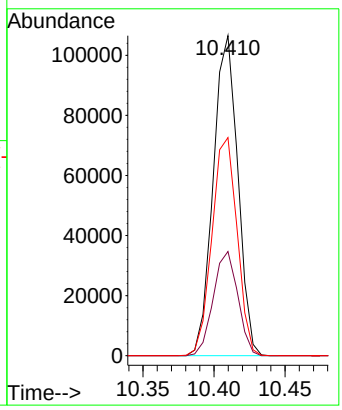





#61
4-Chlorophenyl-phenylether
Concen: 41.474 ng
RT: 10.410 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:204 Resp: 12829

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 204 | 100 | | |
| 206 | 32.5 | 26.1 | 39.1 |
| 141 | 68.2 | 51.4 | 77.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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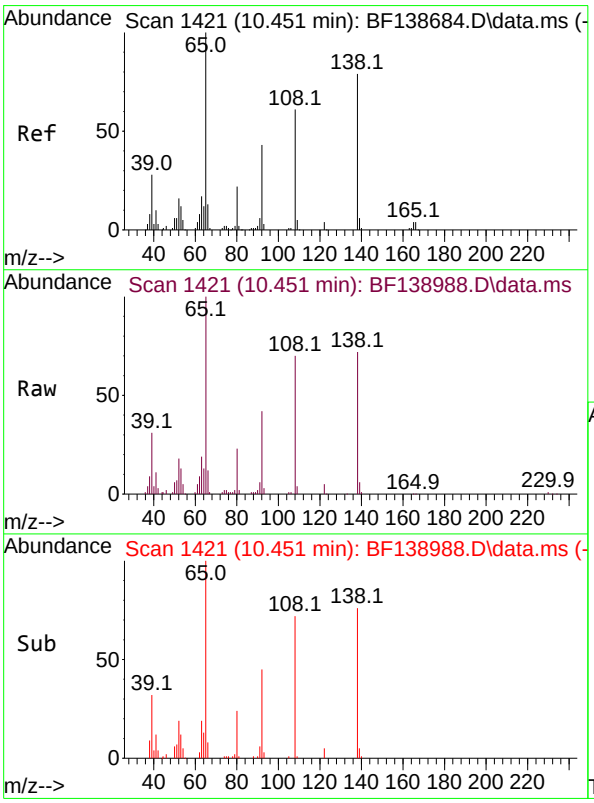
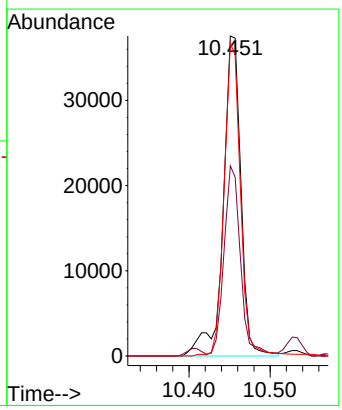
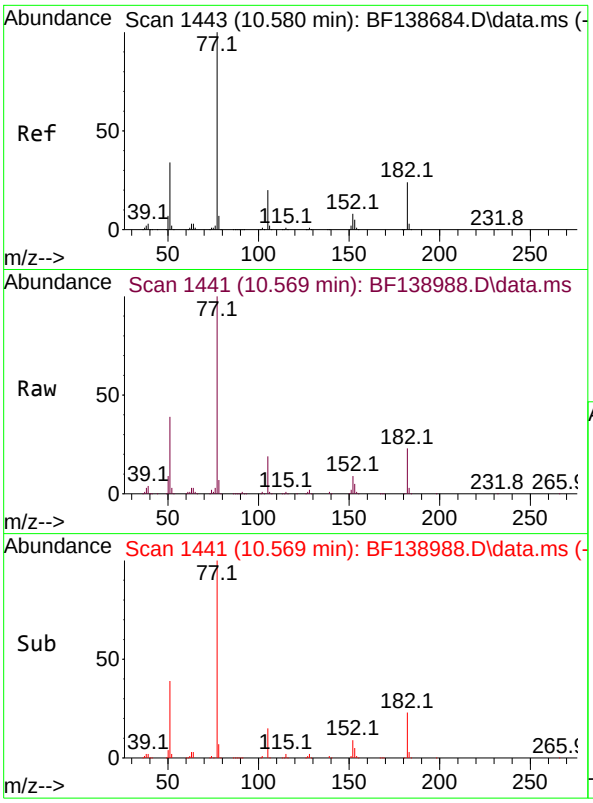



#62
4-Nitroaniline
Concen: 39.940 ng
RT: 10.451 min Scan# 1421
Delta R.T. -0.000 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:138 Resp: 57048

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 59.4 | 34.2 | 74.2 |
| 108 | 97.8 | 56.2 | 96.2# |

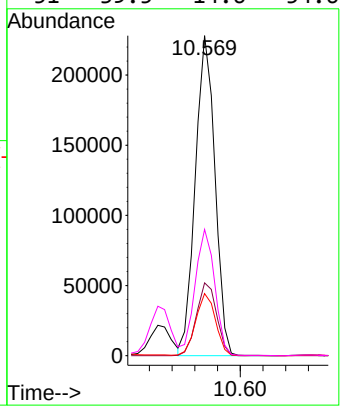





#63
Azobenzene
Concen: 40.516 ng
RT: 10.569 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion: 77 Resp: 27449

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 182 | 22.7 | 3.4 | 43.4 |
| 105 | 19.4 | 0.2 | 40.2 |
| 51 | 39.5 | 14.6 | 54.6 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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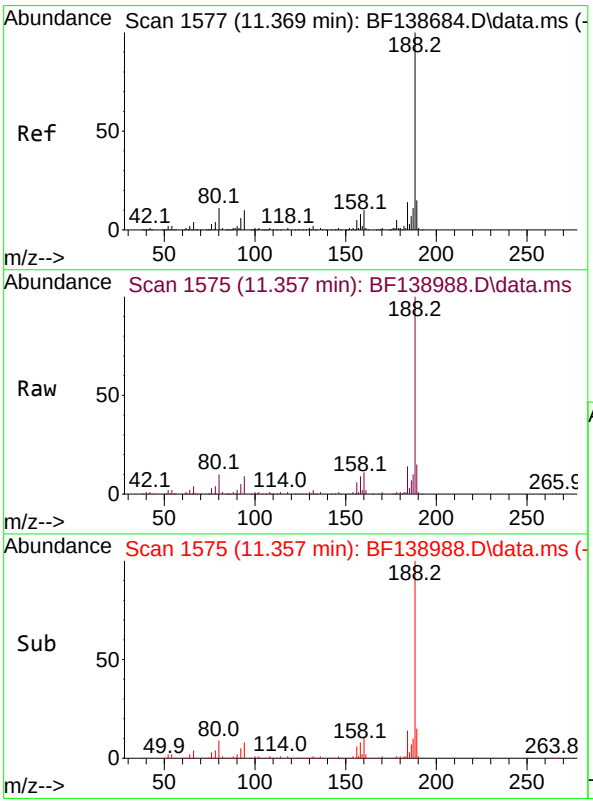
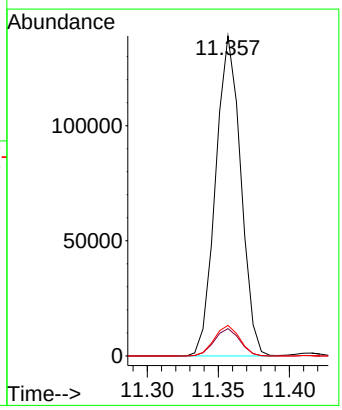
Supervised By :mohammad ahmed 08/16/2024

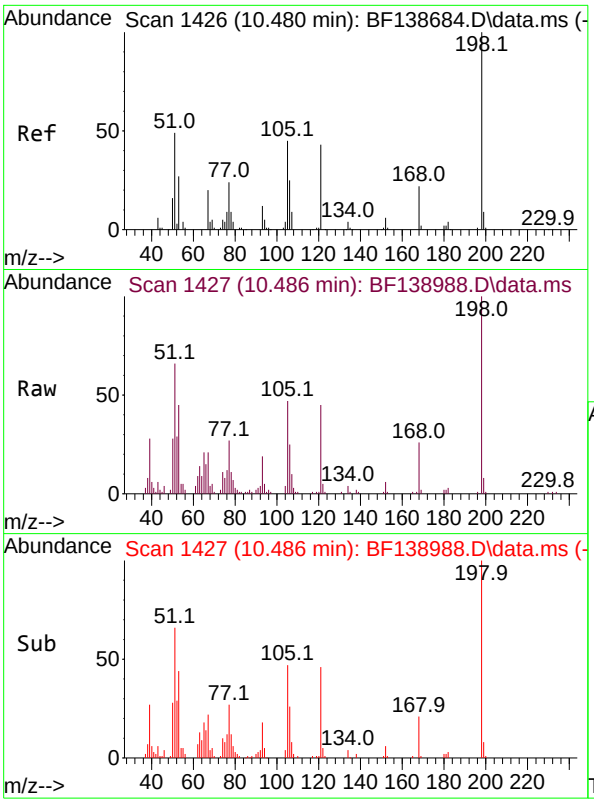



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.357 min Scan# 1575
Delta R.T. -0.012 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:188 Resp: 170882

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 8.5 | 7.6 | 11.4 |
| 80 | 9.6 | 8.6 | 12.8 |

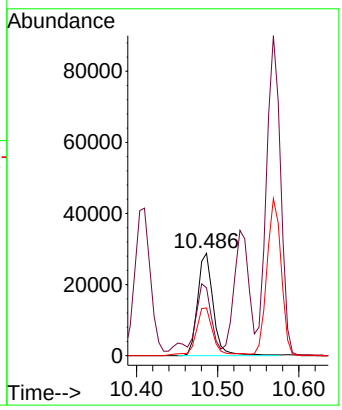





#65
4,6-Dinitro-2-methylphenol
Concen: 36.964 ng
RT: 10.486 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:198 Resp: 3853

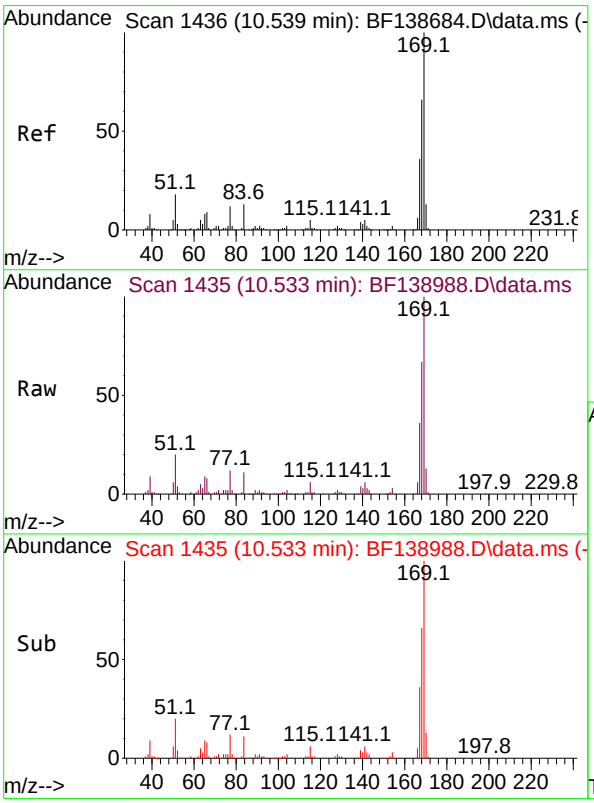
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 66.3 | 39.9 | 79.9 |
| 105 | 46.5 | 26.1 | 66.1 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations APPROVED**

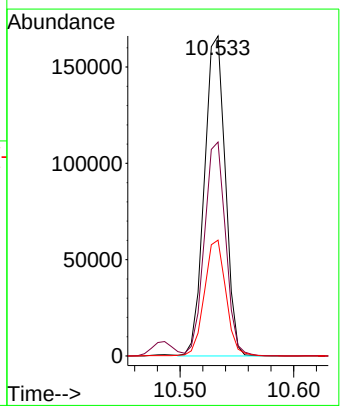
Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

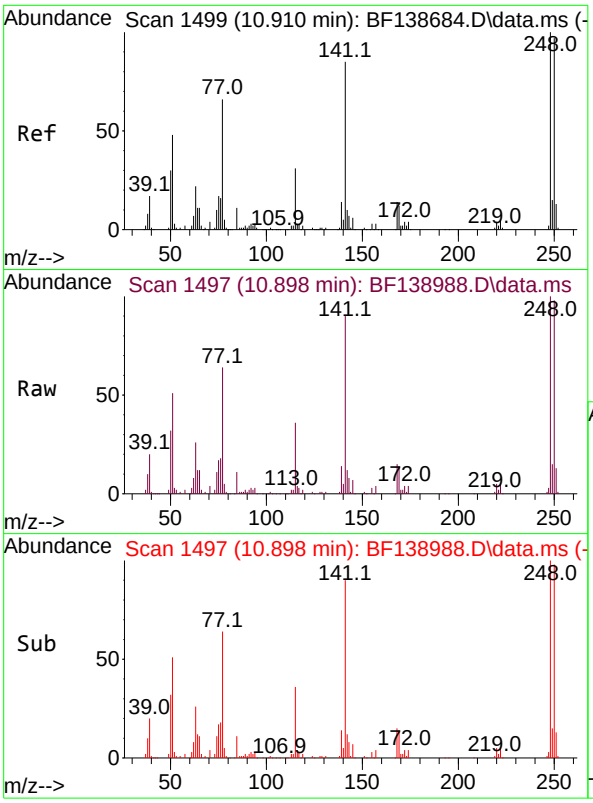



#66
n-Nitrosodiphenylamine
Concen: 39.795 ng
RT: 10.533 min Scan# 1435
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:169 Resp: 212563

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 66.8 | 53.0 | 79.6 |
| 167 | 36.2 | 29.0 | 43.6 |

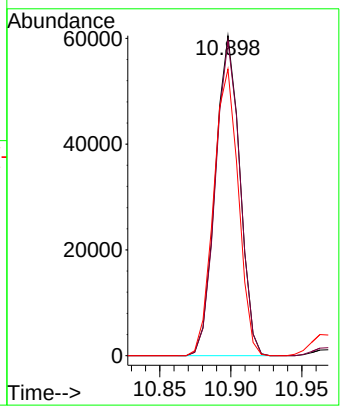





#67
4-Bromophenyl-phenylether
Concen: 39.102 ng
RT: 10.898 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:248 Resp: 7234

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 98.3 | 77.7 | 116.5 |
| 141 | 89.6 | 68.0 | 102.0 |




**Instrument :**
BNA_F
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SSTDCCC040

**Manual Integrations**
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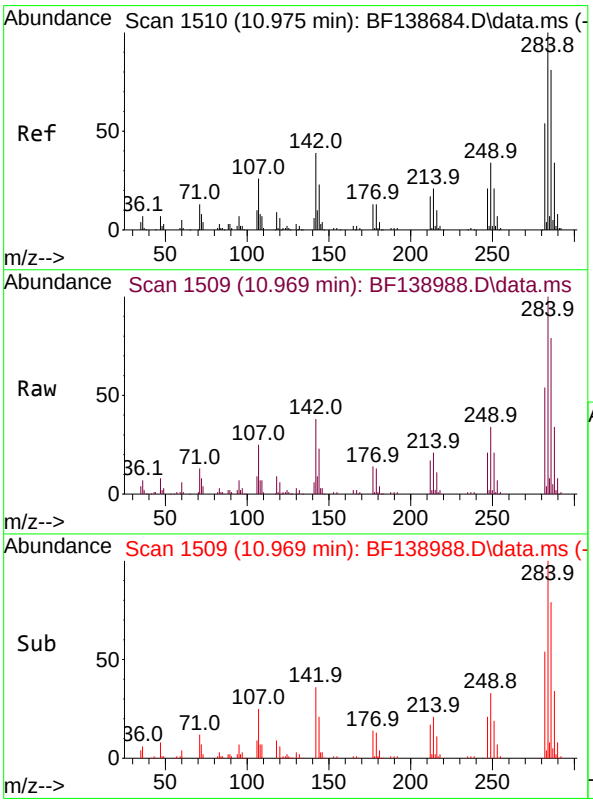
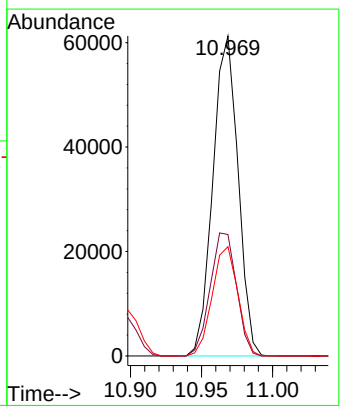
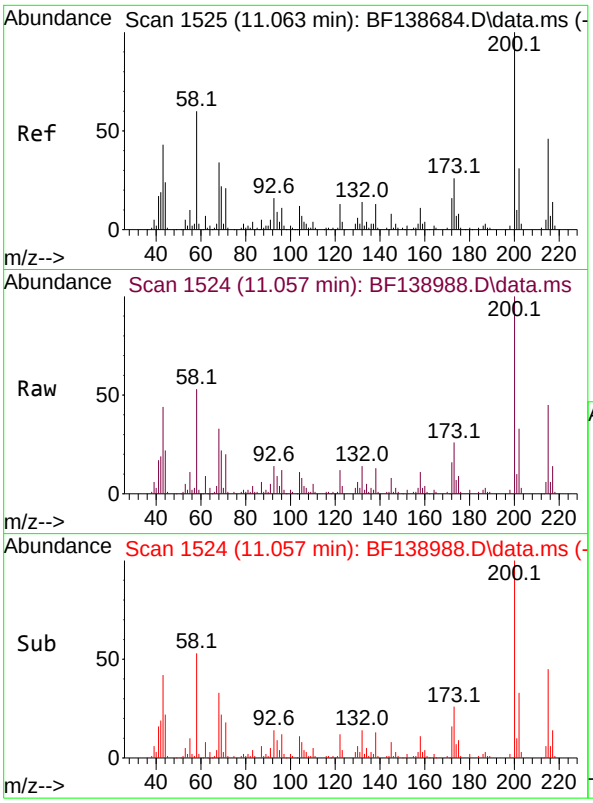



#68
Hexachlorobenzene
Concen: 39.584 ng
RT: 10.969 min Scan# 1509
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:284 Resp: 75615

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 38.0 | 31.3 | 46.9 |
| 249 | 34.2 | 27.2 | 40.8 |

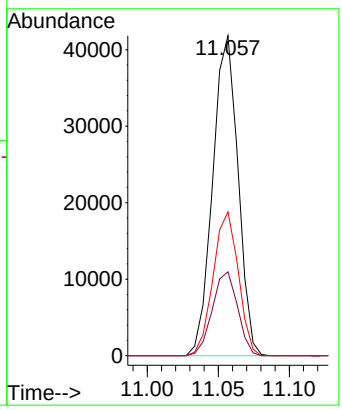





#69
Atrazine
Concen: 37.660 ng
RT: 11.057 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:200 Resp: 5189

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 26.2 | 6.0 | 46.0 |
| 215 | 45.0 | 26.1 | 66.1 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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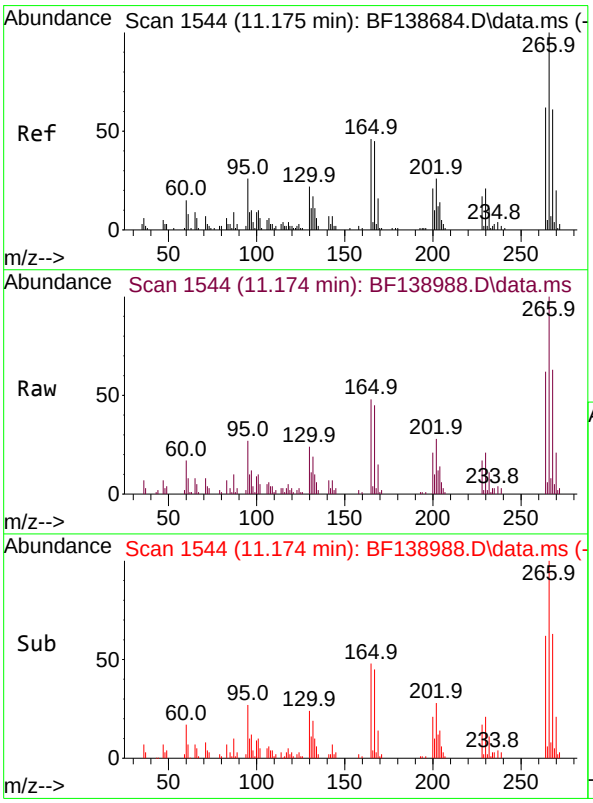
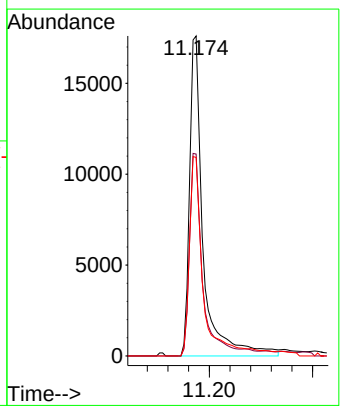
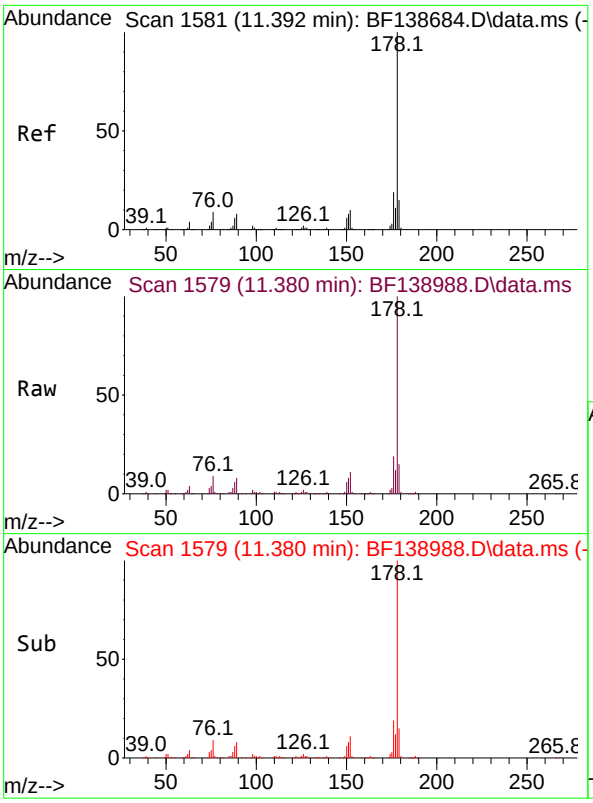



#70
Pentachlorophenol
Concen: 37.365 ng
RT: 11.174 min Scan# 1544
Delta R.T. -0.001 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:266 Resp: 32173

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 268 | 63.1 | 49.2 | 73.8 |
| 264 | 62.1 | 49.8 | 74.6 |

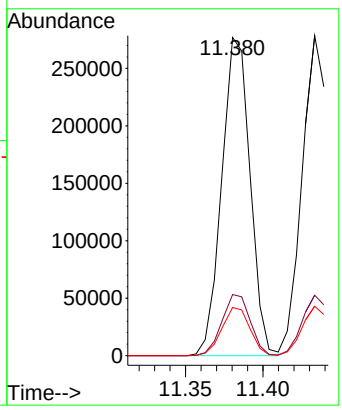





#71
Phenanthrene
Concen: 40.041 ng
RT: 11.380 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:178 Resp: 35232

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.2 | 15.4 | 23.0 |
| 179 | 15.1 | 12.2 | 18.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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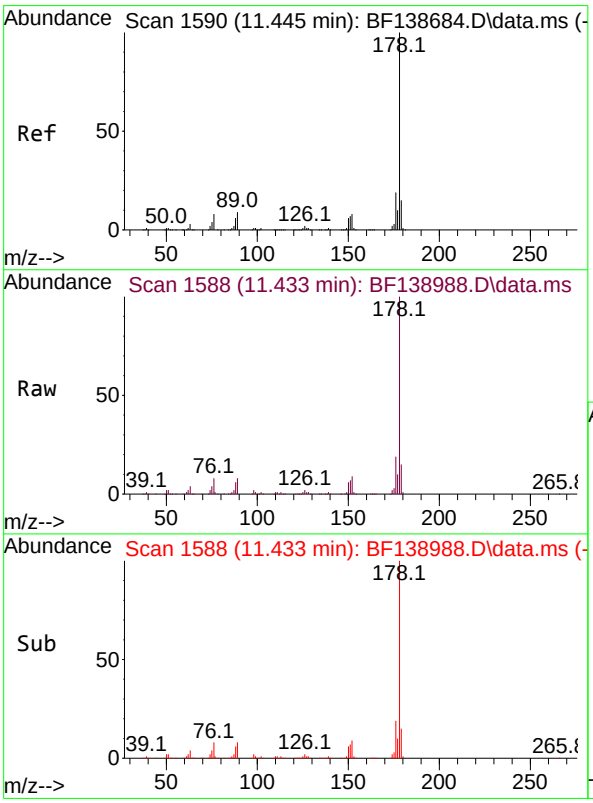
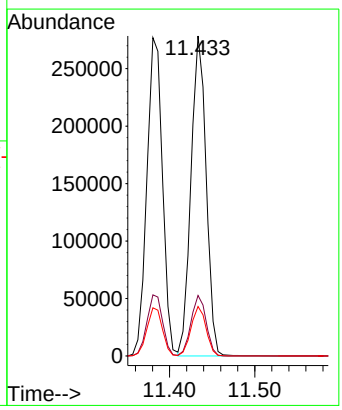
Supervised By :mohammad ahmed 08/16/2024

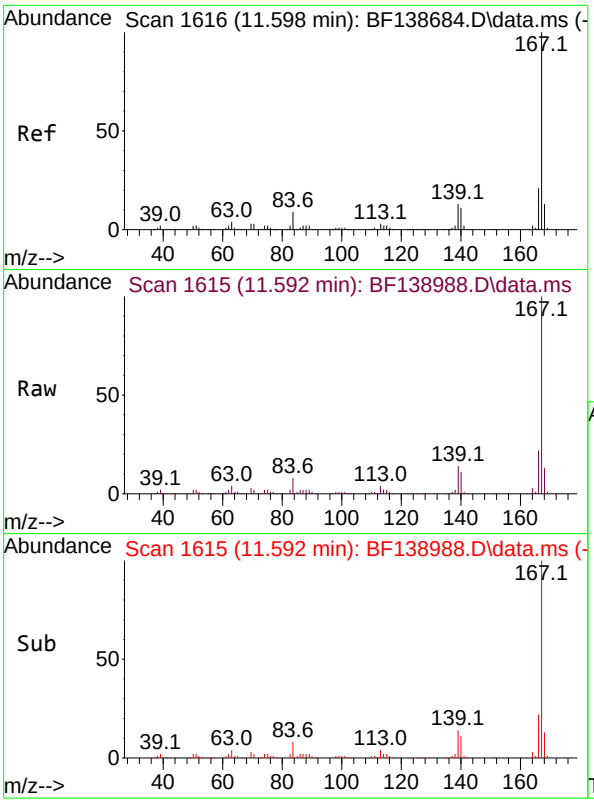



#72
Anthracene
Concen: 39.749 ng
RT: 11.433 min Scan# 1588
Delta R.T. -0.012 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:178 Resp: 344553

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.9 | 14.9 | 22.3 |
| 179 | 15.4 | 12.4 | 18.6 |

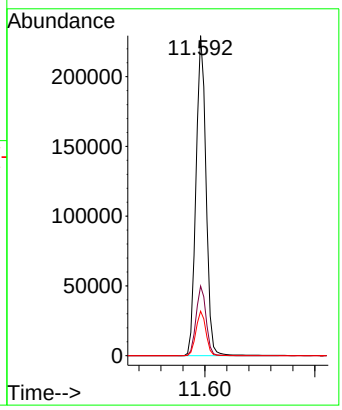





#73
Carbazole
Concen: 38.844 ng
RT: 11.592 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:167 Resp: 29049

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 21.8 | 17.2 | 25.8 |
| 139 | 13.9 | 10.6 | 16.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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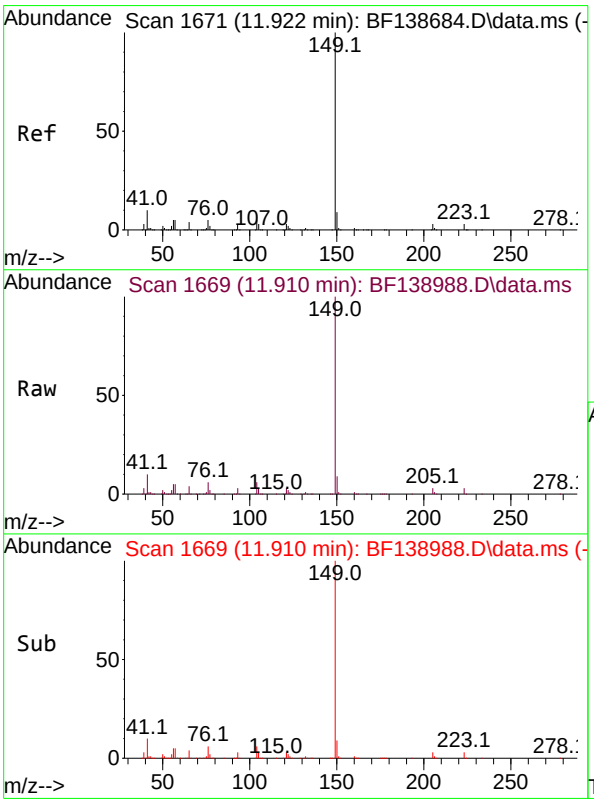
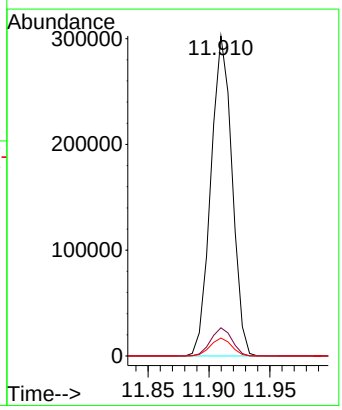
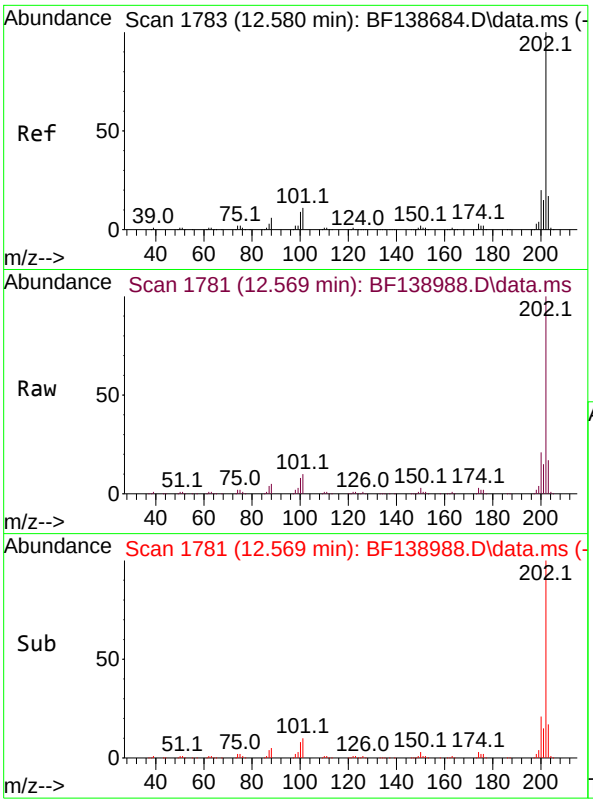



#74
Di-n-butylphthalate
Concen: 43.590 ng
RT: 11.910 min Scan# 1669
Delta R.T. -0.012 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:149 Resp: 366466

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 8.8 | 7.4 | 11.0 |
| 104 | 5.6 | 4.1 | 6.1 |

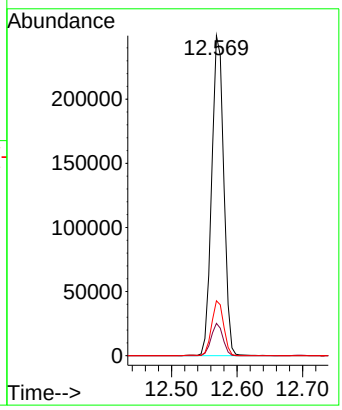





#75
Fluoranthene
Concen: 38.894 ng
RT: 12.569 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:202 Resp: 31949

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 10.1 | 0.0 | 31.2 |
| 203 | 17.2 | 0.0 | 37.3 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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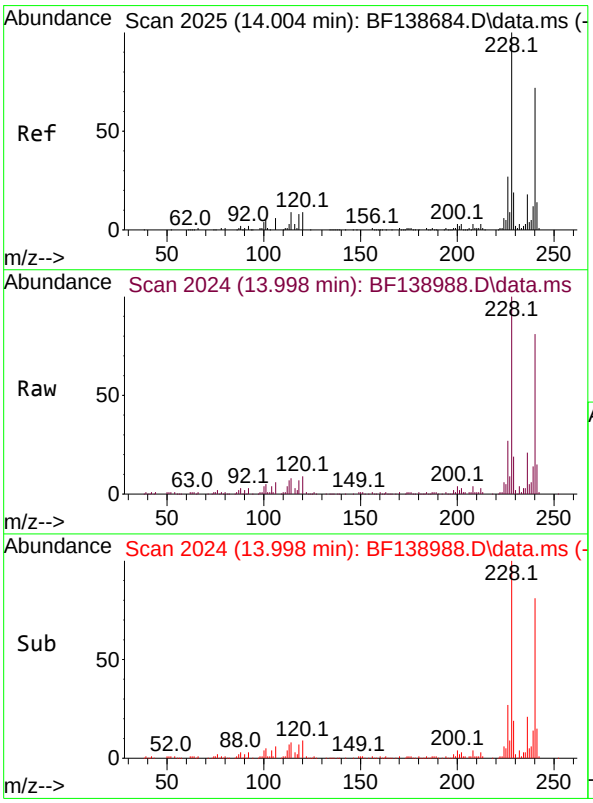
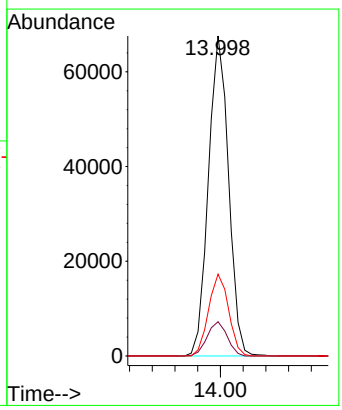
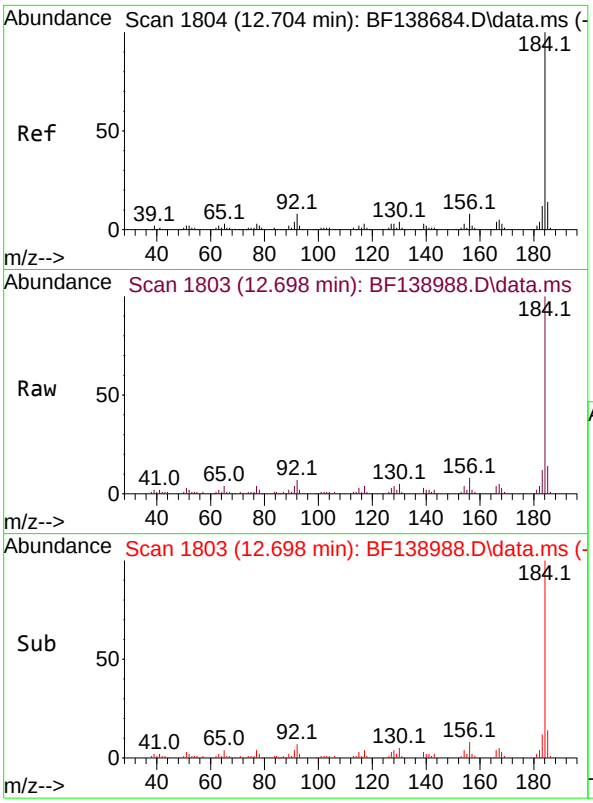



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.998 min Scan# 2024
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:240 Resp: 83079

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 10.7 | 10.2 | 15.4 |
| 236 | 25.6 | 19.8 | 29.8 |

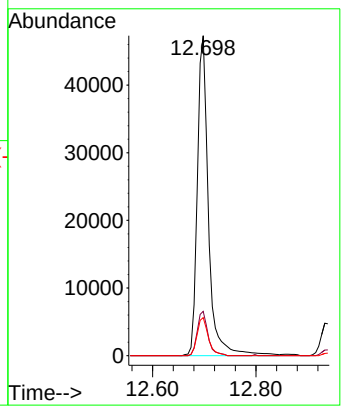





#77
Benzidine
Concen: 35.583 ng
RT: 12.698 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:184 Resp: 7070

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 185 | 13.9 | 11.1 | 16.7 |
| 183 | 11.9 | 9.6 | 14.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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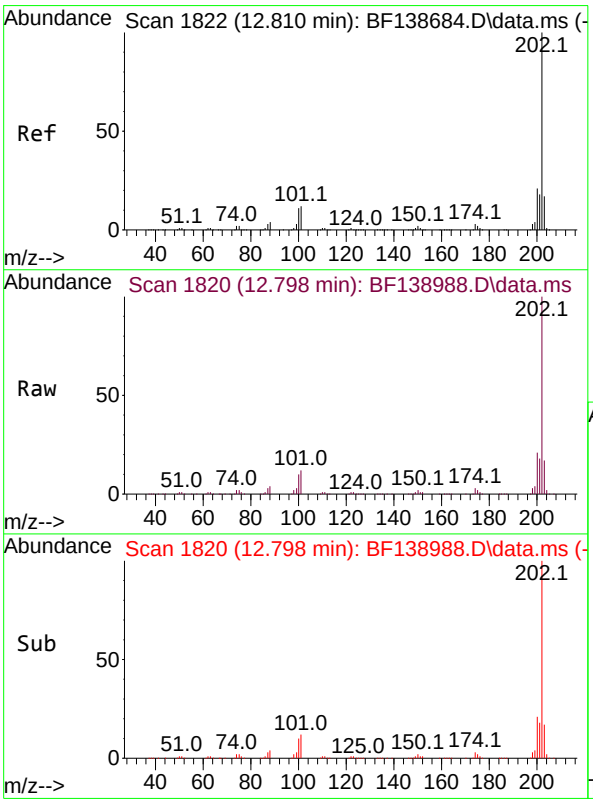
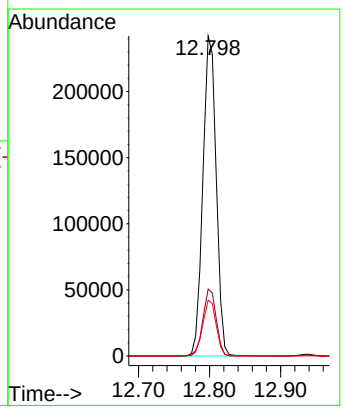
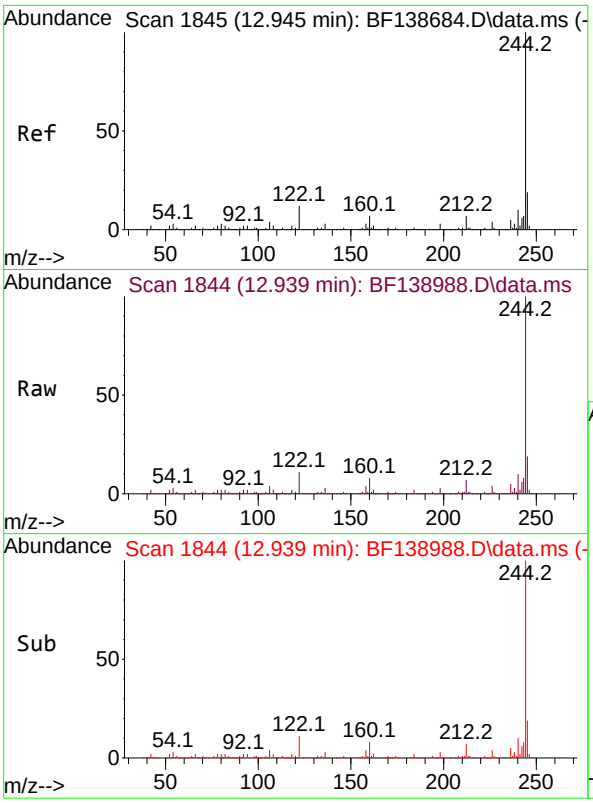



#78
Pyrene
Concen: 40.426 ng
RT: 12.798 min Scan# 1820
Delta R.T. -0.012 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:202 Resp: 316221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.9 | 16.8 | 25.2 |
| 203 | 17.4 | 13.8 | 20.6 |

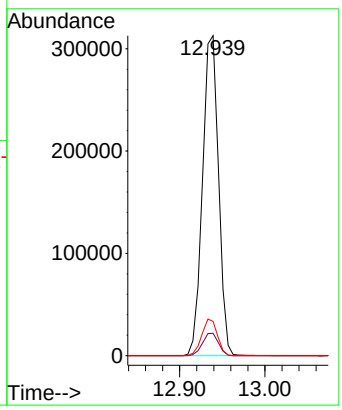





#79
Terphenyl-d14
Concen: 82.278 ng
RT: 12.939 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:244 Resp: 40827

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.0 | 5.4 | 8.2 |
| 122 | 10.7 | 9.6 | 14.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
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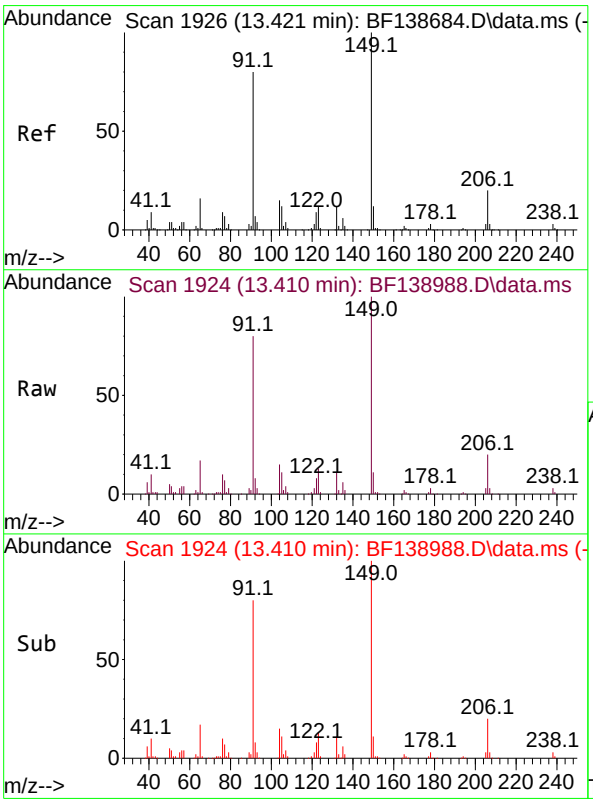
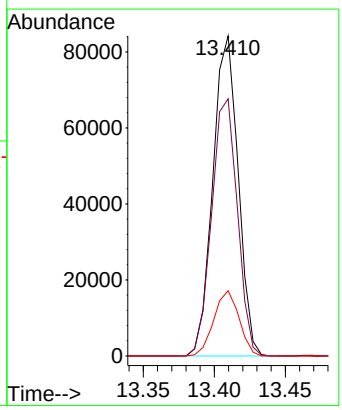
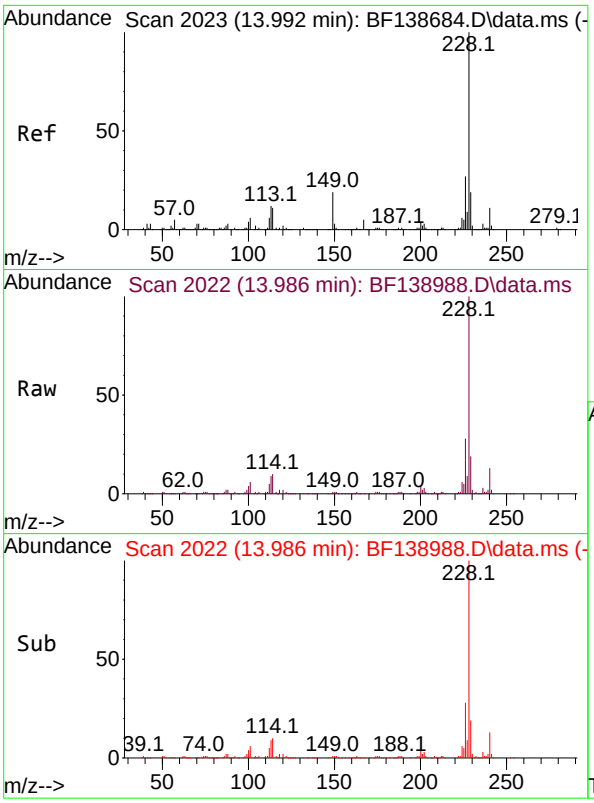



#80
Butylbenzylphthalate
Concen: 41.563 ng
RT: 13.410 min Scan# 1924
Delta R.T. -0.012 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:149 Resp: 104111

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 91 | 80.4 | 63.7 | 95.5 |
| 206 | 20.4 | 16.2 | 24.2 |

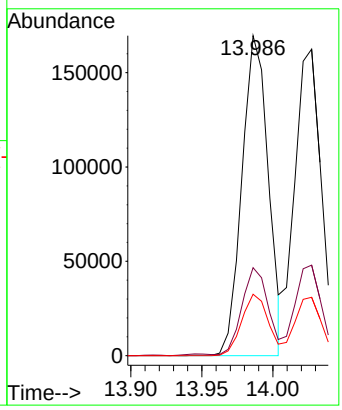





#81
Benzo(a)anthracene
Concen: 38.218 ng
RT: 13.986 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:228 Resp: 21864

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.5 | 22.1 | 33.1 |
| 229 | 19.2 | 15.4 | 23.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations APPROVED**

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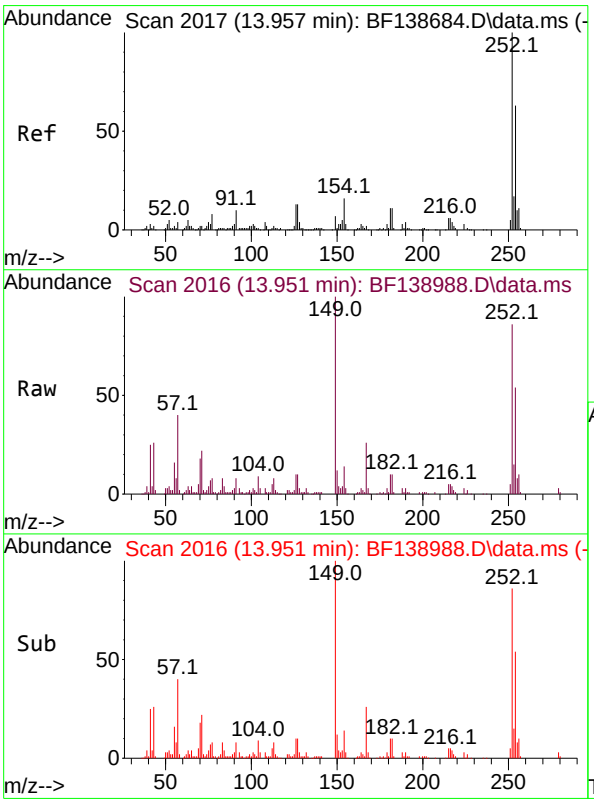
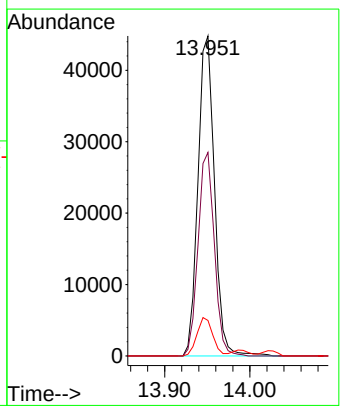
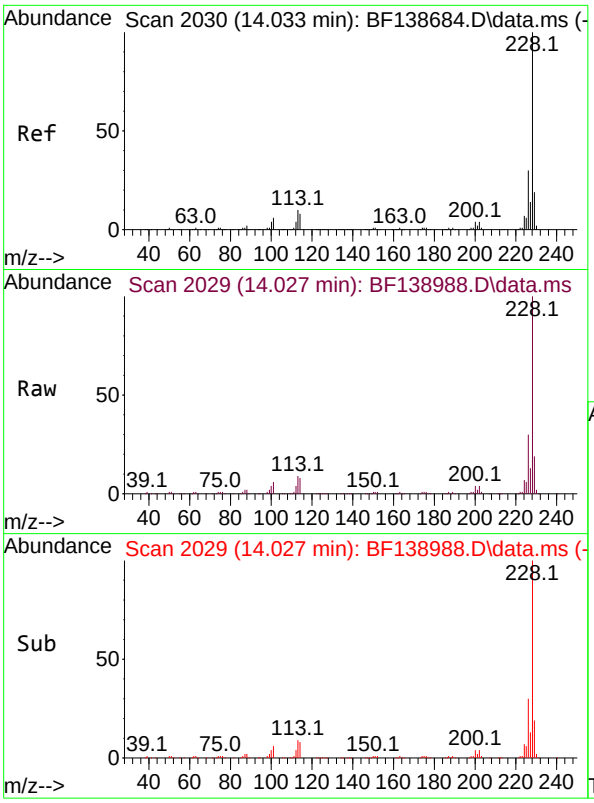



#82
3,3'-Dichlorobenzidine
Concen: 41.184 ng
RT: 13.951 min Scan# 2016
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:252 Resp: 60294

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 63.6 | 50.8 | 76.2 |
| 126 | 11.1 | 10.2 | 15.2 |

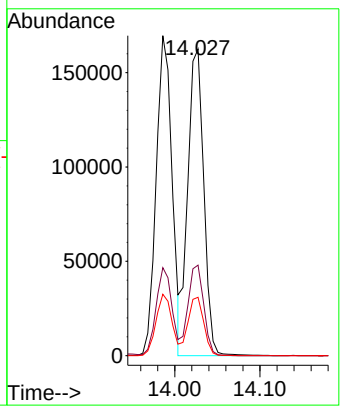





#83
Chrysene
Concen: 41.069 ng
RT: 14.027 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:228 Resp: 21197

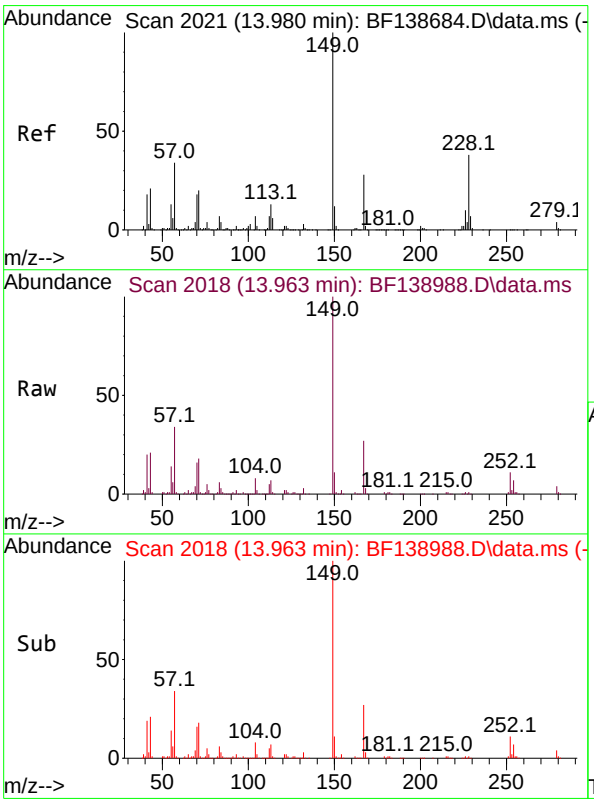
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.5 | 23.7 | 35.5 |
| 229 | 19.1 | 15.0 | 22.6 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
**APPROVED**

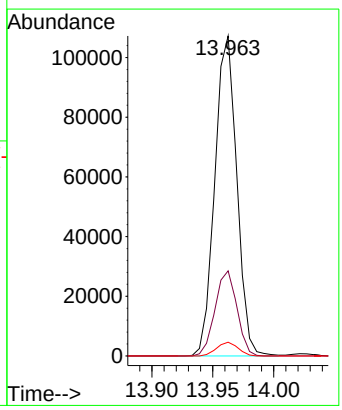
Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

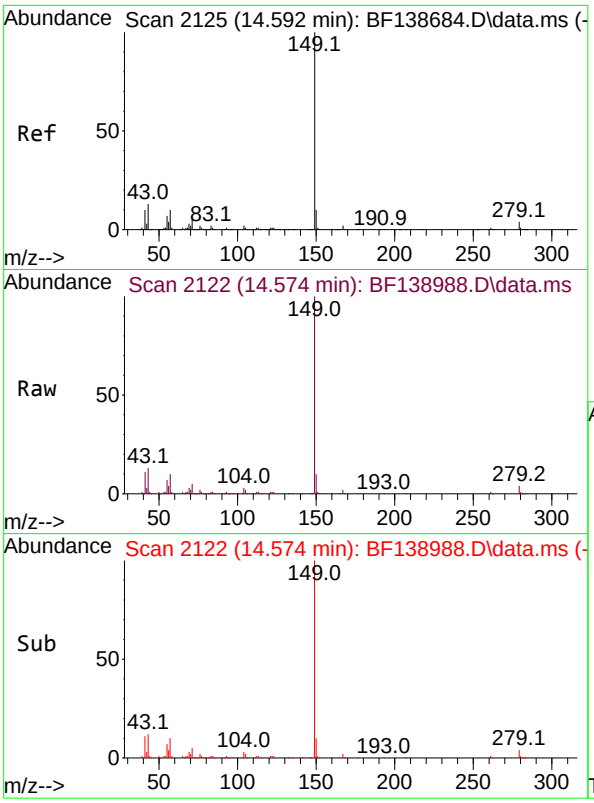



#84
Bis(2-ethylhexyl)phthalate
Concen: 36.776 ng
RT: 13.963 min Scan# 2018
Delta R.T. -0.018 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:149 Resp: 134893

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.6 | 22.2 | 33.4 |
| 279 | 4.3 | 3.4 | 5.0 |






#85
Di-n-octyl phthalate
Concen: 33.003 ng
RT: 14.574 min Scan# 21
Delta R.T. -0.018 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

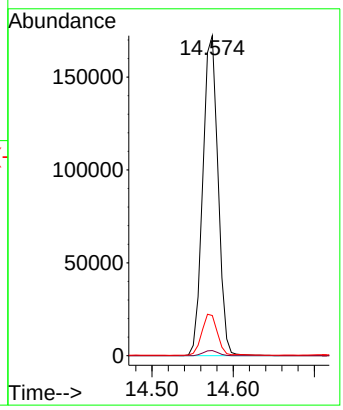
Tgt Ion:149 Resp: 22396

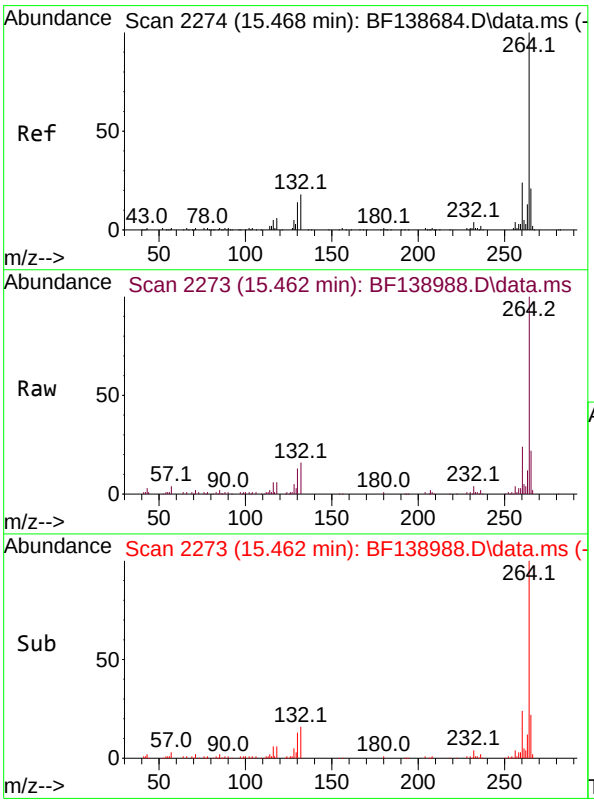
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 1.6 | 1.4 | 2.0 |
| 43 | 13.2 | 10.4 | 15.6 |

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

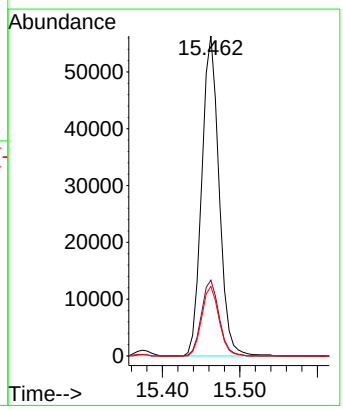


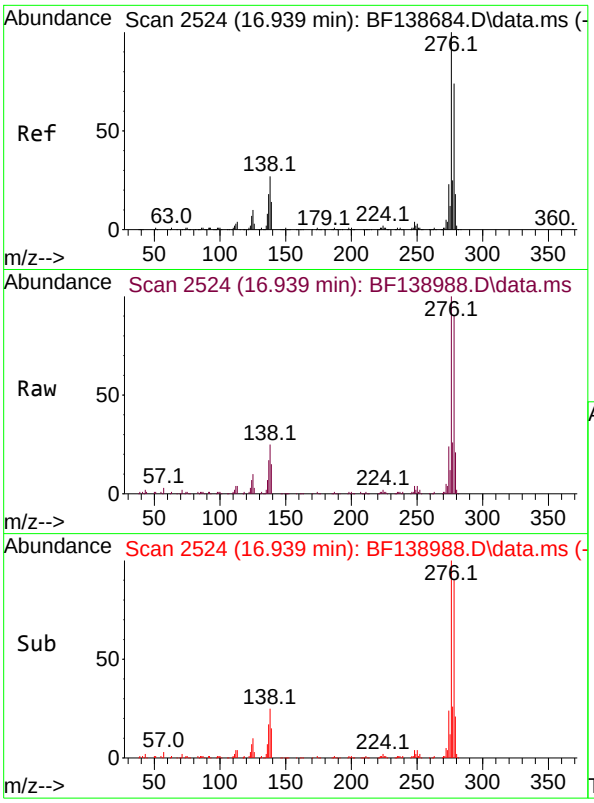




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.462 min Scan# 2273
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:264 Resp: 87305

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.7 | 19.0 | 28.6 |
| 265 | 21.7 | 17.0 | 25.6 |

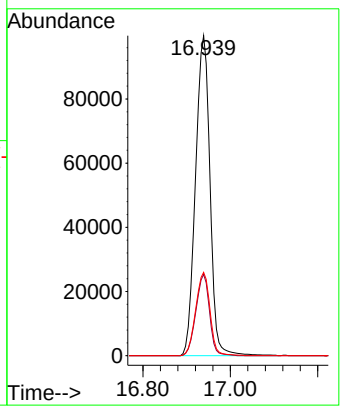





#87
Indeno(1,2,3-cd)pyrene
Concen: 36.769 ng
RT: 16.939 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:276 Resp: 23005

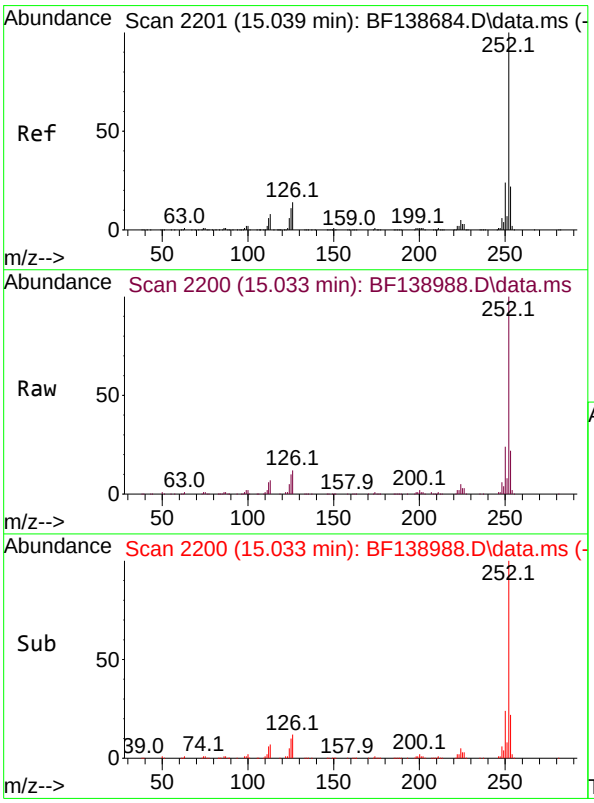
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 23.8 | 21.8 | 32.8 |
| 277 | 25.7 | 20.6 | 30.8 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
**APPROVED**

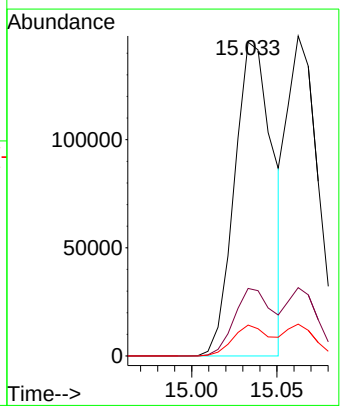
Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

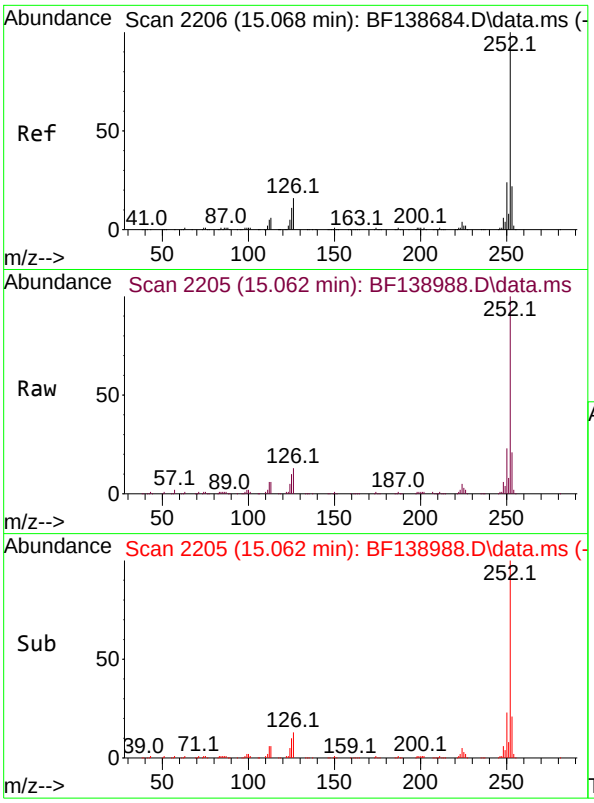



#88
Benzo(b)fluoranthene
Concen: 41.706 ng
RT: 15.033 min Scan# 2200
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:252 Resp: 225713

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.5 | 17.5 | 26.3 |
| 125 | 9.8 | 8.9 | 13.3 |

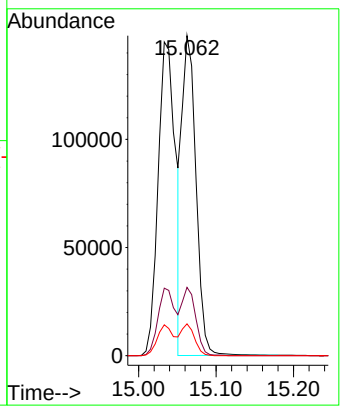





#89
Benzo(k)fluoranthene
Concen: 39.808 ng
RT: 15.062 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:252 Resp: 18653

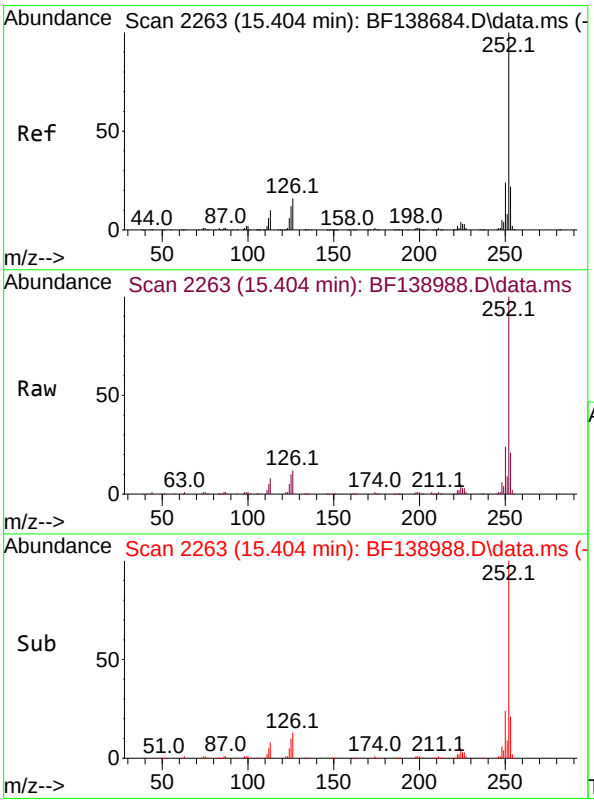
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.4 | 17.4 | 26.0 |
| 125 | 10.0 | 8.6 | 13.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
**APPROVED**

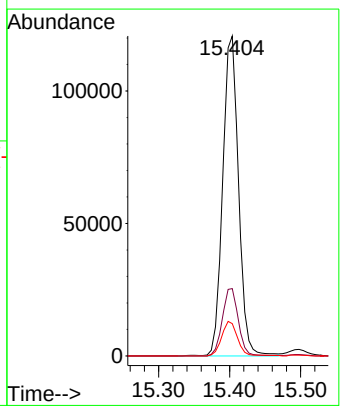
Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

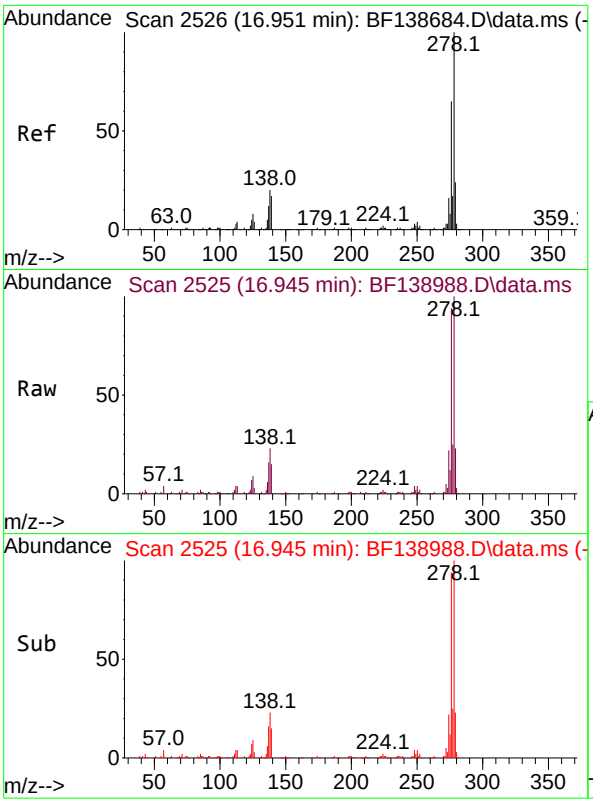



#90
Benzo(a)pyrene
Concen: 40.928 ng
RT: 15.404 min Scan# 2263
Delta R.T. -0.000 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:252 Resp: 186317

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.0 | 17.3 | 25.9 |
| 125 | 10.1 | 9.5 | 14.3 |

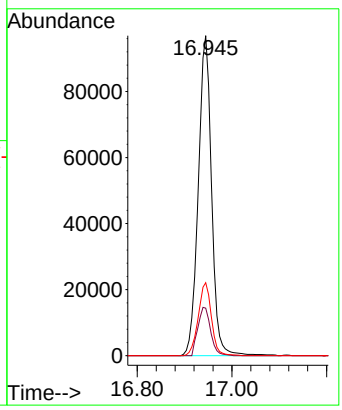





#91
Dibenzo(a,h)anthracene
Concen: 36.814 ng
RT: 16.945 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:278 Resp: 18907

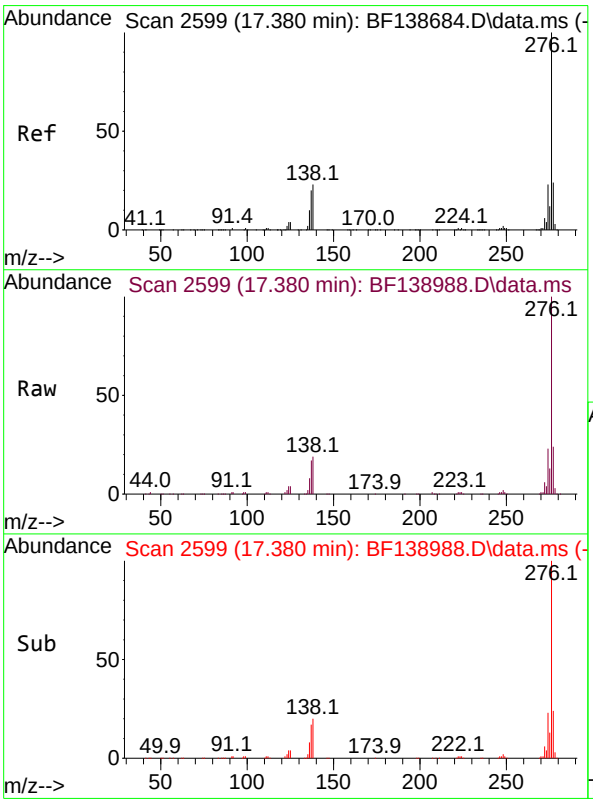
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 14.8 | 14.0 | 21.0 |
| 279 | 22.8 | 19.0 | 28.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

**Manual Integrations**
**APPROVED**

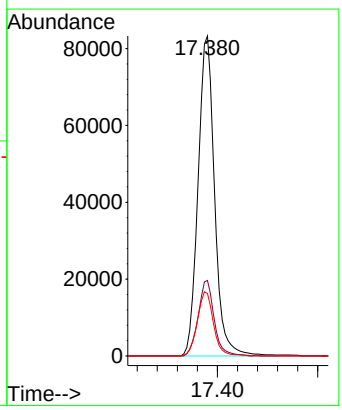
Reviewed By :Yogesh Patel 08/15/2024
Supervised By :mohammad ahmed 08/16/2024




#92
Benzo(g,h,i)perylene
Concen: 35.760 ng
RT: 17.380 min Scan# 2599
Delta R.T. -0.000 min
Lab File: BF138988.D
Acq: 14 Aug 2024 12:03

Tgt Ion:276 Resp: 190583

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 23.6 | 19.0 | 28.4 |
| 138 | 19.5 | 18.5 | 27.7 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081424\
Data File : BF138988.D
Acq On : 14 Aug 2024 12:03
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_F
**LabSampleId :**
SSTDCCC040

Quant Time: Aug 14 12:36:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 64 | 0.00 |
| 2 | | 1,4-Dioxane | 0.567 | 0.506 | 10.8 | 56 | 0.00 |
| 3 | | Pyridine | 1.374 | 1.276 | 7.1 | 59 | 0.00 |
| 4 | | n-Nitrosodimethylamine | 0.818 | 0.925 | -13.1 | 73 | 0.02 |
| 5 | S | 2-Fluorophenol | 1.296 | 1.279 | 1.3 | 64 | 0.00 |
| 6 | | Aniline | 1.551 | 1.483 | 4.4 | 62 | 0.00 |
| 7 | S | Phenol-d6 | 1.740 | 1.703 | 2.1 | 65 | 0.00 |
| 8 | | 2-Chlorophenol | 1.363 | 1.341 | 1.6 | 65 | 0.00 |
| 9 | | Benzaldehyde | 1.043 | 0.855 | 18.0 | 61 | 0.00 |
| 10 | C | Phenol | 1.832 | 1.763 | 3.8 | 64 | 0.00 |
| 11 | | bis(2-Chloroethyl)ether | 1.409 | 1.274 | 9.6 | 60 | -0.01 |
| 12 | | 1,3-Dichlorobenzene | 1.526 | 1.474 | 3.4 | 64 | -0.01 |
| 13 | C | 1,4-Dichlorobenzene | 1.540 | 1.520 | 1.3 | 65 | 0.00 |
| 14 | | 1,2-Dichlorobenzene | 1.439 | 1.411 | 1.9 | 64 | 0.00 |
| 15 | | Benzyl Alcohol | 1.254 | 1.292 | -3.0 | 68 | 0.00 |
| 16 | | 2,2'-oxybis(1-Chloropropane | 2.426 | 2.134 | 12.0 | 58 | -0.01 |
| 17 | | 2-Methylphenol | 1.126 | 1.081 | 4.0 | 63 | 0.00 |
| 18 | | Hexachloroethane | 0.580 | 0.576 | 0.7 | 65 | -0.01 |
| 19 | P | n-Nitroso-di-n-propylamine | 1.051 | 1.047 | 0.4 | 68 | 0.00 |
| 20 | | 3+4-Methylphenols | 1.444 | 1.458 | -1.0 | 68 | 0.00 |
| 21 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 64 | 0.00 |
| 22 | | Acetophenone | 0.490 | 0.526 | -7.3 | 70 | 0.00 |
| 23 | S | Nitrobenzene-d5 | 0.409 | 0.430 | -5.1 | 68 | 0.00 |
| 24 | | Nitrobenzene | 0.416 | 0.434 | -4.3 | 67 | 0.00 |
| 25 | | Isophorone | 0.699 | 0.701 | -0.3 | 66 | 0.00 |
| 26 | C | 2-Nitrophenol | 0.179 | 0.179 | 0.0 | 63 | 0.00 |
| 27 | | 2,4-Dimethylphenol | 0.214 | 0.214 | 0.0 | 64 | 0.00 |
| 28 | | bis(2-Chloroethoxy)methane | 0.425 | 0.404 | 4.9 | 62 | 0.00 |
| 29 | C | 2,4-Dichlorophenol | 0.275 | 0.280 | -1.8 | 65 | 0.00 |
| 30 | | 1,2,4-Trichlorobenzene | 0.318 | 0.321 | -0.9 | 65 | 0.00 |
| 31 | | Naphthalene | 1.053 | 1.057 | -0.4 | 65 | -0.01 |
| 32 | | Benzoic acid | 0.168 | 0.125 | 25.6# | 48# | 0.02 |
| 33 | | 4-Chloroaniline | 0.353 | 0.340 | 3.7 | 63 | 0.00 |
| 34 | C | Hexachlorobutadiene | 0.192 | 0.205 | -6.8 | 69 | -0.01 |
| 35 | | Caprolactam | 0.082 | 0.089 | -8.5 | 73 | 0.00 |
| 36 | C | 4-Chloro-3-methylphenol | 0.315 | 0.334 | -6.0 | 70 | 0.00 |
| 37 | | 2-Methylnaphthalene | 0.665 | 0.681 | -2.4 | 67 | -0.01 |
| 38 | | 1-Methylnaphthalene | 0.652 | 0.671 | -2.9 | 68 | -0.01 |
| 39 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 69 | -0.01 |
| 40 | | 1,2,4,5-Tetrachlorobenzene | 0.556 | 0.560 | -0.7 | 70 | -0.01 |
| 41 | P | Hexachlorocyclopentadiene | 0.120 | 0.104 | 13.3 | 56 | -0.01 |
| 42 | S | 2,4,6-Tribromophenol | 0.164 | 0.163 | 0.6 | 70 | 0.00 |
| 43 | C | 2,4,6-Trichlorophenol | 0.339 | 0.331 | 2.4 | 67 | 0.00 |
| 44 | | 2,4,5-Trichlorophenol | 0.370 | 0.361 | 2.4 | 67 | 0.00 |
| 45 | S | 2-Fluorobiphenyl | 1.331 | 1.376 | -3.4 | 72 | -0.01 |
| 46 | | 1,1'-Biphenyl | 1.566 | 1.563 | 0.2 | 70 | -0.01 |
| 47 | | 2-Chloronaphthalene | 1.165 | 1.143 | 1.9 | 68 | 0.00 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081424\
Data File : BF138988.D
Acq On : 14 Aug 2024 12:03
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_F
**LabSampleId :**
SSTDCCC040

Quant Time: Aug 14 12:36:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 48 | | 2-Nitroaniline | 0.395 | 0.418 | -5.8 | 74 | 0.00 |
| 49 | | Acenaphthylene | 1.652 | 1.626 | 1.6 | 68 | -0.01 |
| 50 | | Dimethylphthalate | 1.279 | 1.330 | -4.0 | 74 | -0.01 |
| 51 | | 2,6-Dinitrotoluene | 0.289 | 0.299 | -3.5 | 71 | 0.00 |
| 52 | C | Acenaphthene | 1.111 | 1.101 | 0.9 | 70 | -0.01 |
| 53 | | 3-Nitroaniline | 0.298 | 0.287 | 3.7 | 68 | 0.00 |
| 54 | P | 2,4-Dinitrophenol | 0.133 | 0.120 | 9.8 | 65 | 0.00 |
| 55 | | Dibenzofuran | 1.568 | 1.584 | -1.0 | 72 | -0.01 |
| 56 | P | 4-Nitrophenol | 0.179 | 0.214 | -19.6 | 84 | 0.01 |
| 57 | | 2,4-Dinitrotoluene | 0.368 | 0.393 | -6.8 | 74 | 0.00 |
| 58 | | Fluorene | 1.249 | 1.314 | -5.2 | 75 | 0.00 |
| 59 | | 2,3,4,6-Tetrachlorophenol | 0.283 | 0.275 | 2.8 | 69 | 0.00 |
| 60 | | Diethylphthalate | 1.213 | 1.324 | -9.2 | 79 | 0.00 |
| 61 | | 4-Chlorophenyl-phenylether | 0.614 | 0.637 | -3.7 | 74 | -0.01 |
| 62 | | 4-Nitroaniline | 0.284 | 0.283 | 0.4 | 71 | 0.00 |
| 63 | | Azobenzene | 1.345 | 1.362 | -1.3 | 72 | -0.01 |
| 64 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 75 | -0.01 |
| 65 | | 4,6-Dinitro-2-methylphenol | 0.122 | 0.113 | 7.4 | 68 | 0.00 |
| 66 | c | n-Nitrosodiphenylamine | 0.625 | 0.622 | 0.5 | 74 | 0.00 |
| 67 | | 4-Bromophenyl-phenylether | 0.217 | 0.212 | 2.3 | 73 | -0.01 |
| 68 | | Hexachlorobenzene | 0.224 | 0.221 | 1.3 | 76 | 0.00 |
| 69 | | Atrazine | 0.161 | 0.152 | 5.6 | 70 | 0.00 |
| 70 | C | Pentachlorophenol | 0.101 | 0.094 | 6.9 | 69 | 0.00 |
| 71 | | Phenanthrene | 1.030 | 1.031 | -0.1 | 76 | -0.01 |
| 72 | | Anthracene | 1.015 | 1.008 | 0.7 | 76 | -0.01 |
| 73 | | Carbazole | 0.875 | 0.850 | 2.9 | 73 | 0.00 |
| 74 | | Di-n-butylphthalate | 0.984 | 1.072 | -8.9 | 81 | -0.01 |
| 75 | C | Fluoranthene | 0.961 | 0.935 | 2.7 | 73 | -0.01 |
| 76 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 66 | 0.00 |
| 77 | | Benzidine | 0.478 | 0.426 | 10.9 | 52 | 0.00 |
| 78 | | Pyrene | 1.883 | 1.903 | -1.1 | 72 | -0.01 |
| 79 | S | Terphenyl-d14 | 1.195 | 1.229 | -2.8 | 73 | 0.00 |
| 80 | | Butylbenzylphthalate | 0.603 | 0.627 | -4.0 | 66 | -0.01 |
| 81 | | Benzo(a)anthracene | 1.377 | 1.316 | 4.4 | 62 | 0.00 |
| 82 | | 3,3'-Dichlorobenzidine | 0.352 | 0.363 | -3.1 | 67 | 0.00 |
| 83 | | Chrysene | 1.243 | 1.276 | -2.7 | 69 | 0.00 |
| 84 | | Bis(2-ethylhexyl)phthalate | 0.883 | 0.812 | 8.0 | 56 | -0.02 |
| 85 | c | Di-n-octyl phthalate | 1.634 | 1.348 | 17.5 | 51 | -0.02 |
| 86 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 58 | 0.00 |
| 87 | | Indeno(1,2,3-cd)pyrene | 1.433 | 1.318 | 8.0 | 54 | 0.00 |
| 88 | | Benzo(b)fluoranthene | 1.240 | 1.293 | -4.3 | 61 | 0.00 |
| 89 | | Benzo(k)fluoranthene | 1.073 | 1.068 | 0.5 | 61 | 0.00 |
| 90 | C | Benzo(a)pyrene | 1.043 | 1.067 | -2.3 | 60 | 0.00 |
| 91 | | Dibenzo(a,h)anthracene | 1.177 | 1.083 | 8.0 | 55 | 0.00 |
| 92 | | Benzo(g,h,i)perylene | 1.221 | 1.091 | 10.6 | 52 | 0.00 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081424\
Data File : BF138988.D
Acq On : 14 Aug 2024 12:03
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_F
**LabSampleId :**
SSTDCCC040

Quant Time: Aug 14 12:36:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| Compound | AvgRF | CCRF | %Dev Area% | Dev(min) |
|---|---|---|---|---|

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081424\
Data File : BF138988.D
Acq On : 14 Aug 2024 12:03
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_F
**LabSampleId :**
SSTDCCC040

Quant Time: Aug 14 12:36:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 1,4-Dichlorobenzene-d4 | 20.000 | 20.000 | 0.0 | 64 | 0.00 |
| 2 | | 1,4-Dioxane | 40.000 | 35.669 | 10.8 | 56 | 0.00 |
| 3 | | Pyridine | 40.000 | 37.156 | 7.1 | 59 | 0.00 |
| 4 | | n-Nitrosodimethylamine | 40.000 | 45.210 | -13.0 | 73 | 0.02 |
| 5 | S | 2-Fluorophenol | 80.000 | 78.978 | 1.3 | 64 | 0.00 |
| 6 | | Aniline | 40.000 | 38.250 | 4.4 | 62 | 0.00 |
| 7 | S | Phenol-d6 | 80.000 | 78.311 | 2.1 | 65 | 0.00 |
| 8 | | 2-Chlorophenol | 40.000 | 39.344 | 1.6 | 65 | 0.00 |
| 9 | | Benzaldehyde | 40.000 | 32.783 | 18.0 | 61 | 0.00 |
| 10 | C | Phenol | 40.000 | 38.514 | 3.7 | 64 | 0.00 |
| 11 | | bis(2-Chloroethyl)ether | 40.000 | 36.171 | 9.6 | 60 | -0.01 |
| 12 | | 1,3-Dichlorobenzene | 40.000 | 38.642 | 3.4 | 64 | -0.01 |
| 13 | C | 1,4-Dichlorobenzene | 40.000 | 39.481 | 1.3 | 65 | 0.00 |
| 14 | | 1,2-Dichlorobenzene | 40.000 | 39.221 | 1.9 | 64 | 0.00 |
| 15 | | Benzyl Alcohol | 40.000 | 41.229 | -3.1 | 68 | 0.00 |
| 16 | | 2,2'-oxybis(1-Chloropropane | 40.000 | 35.200 | 12.0 | 58 | -0.01 |
| 17 | | 2-Methylphenol | 40.000 | 38.428 | 3.9 | 63 | 0.00 |
| 18 | | Hexachloroethane | 40.000 | 39.720 | 0.7 | 65 | -0.01 |
| 19 | P | n-Nitroso-di-n-propylamine | 40.000 | 39.876 | 0.3 | 68 | 0.00 |
| 20 | | 3+4-Methylphenols | 40.000 | 40.386 | -1.0 | 68 | 0.00 |
| 21 | I | Naphthalene-d8 | 20.000 | 20.000 | 0.0 | 64 | 0.00 |
| 22 | | Acetophenone | 40.000 | 42.932 | -7.3 | 70 | 0.00 |
| 23 | S | Nitrobenzene-d5 | 80.000 | 84.071 | -5.1 | 68 | 0.00 |
| 24 | | Nitrobenzene | 40.000 | 41.674 | -4.2 | 67 | 0.00 |
| 25 | | Isophorone | 40.000 | 40.170 | -0.4 | 66 | 0.00 |
| 26 | C | 2-Nitrophenol | 40.000 | 40.063 | -0.2 | 63 | 0.00 |
| 27 | | 2,4-Dimethylphenol | 40.000 | 39.859 | 0.4 | 64 | 0.00 |
| 28 | | bis(2-Chloroethoxy)methane | 40.000 | 38.016 | 5.0 | 62 | 0.00 |
| 29 | C | 2,4-Dichlorophenol | 40.000 | 40.610 | -1.5 | 65 | 0.00 |
| 30 | | 1,2,4-Trichlorobenzene | 40.000 | 40.354 | -0.9 | 65 | 0.00 |
| 31 | | Naphthalene | 40.000 | 40.153 | -0.4 | 65 | -0.01 |
| 32 | | Benzoic acid | 40.000 | 29.736 | 25.7# | 48 | 0.02 |
| 33 | | 4-Chloroaniline | 40.000 | 38.457 | 3.9 | 63 | 0.00 |
| 34 | C | Hexachlorobutadiene | 40.000 | 42.681 | -6.7 | 69 | -0.01 |
| 35 | | Caprolactam | 40.000 | 43.423 | -8.6 | 73 | 0.00 |
| 36 | C | 4-Chloro-3-methylphenol | 40.000 | 42.436 | -6.1 | 70 | 0.00 |
| 37 | | 2-Methylnaphthalene | 40.000 | 40.974 | -2.4 | 67 | -0.01 |
| 38 | | 1-Methylnaphthalene | 40.000 | 41.175 | -2.9 | 68 | -0.01 |
| 39 | I | Acenaphthene-d10 | 20.000 | 20.000 | 0.0 | 69 | -0.01 |
| 40 | | 1,2,4,5-Tetrachlorobenzene | 40.000 | 40.349 | -0.9 | 70 | -0.01 |
| 41 | P | Hexachlorocyclopentadiene | 40.000 | 32.674 | 18.3 | 56 | -0.01 |
| 42 | S | 2,4,6-Tribromophenol | 80.000 | 79.472 | 0.7 | 70 | 0.00 |
| 43 | C | 2,4,6-Trichlorophenol | 40.000 | 39.096 | 2.3 | 67 | 0.00 |
| 44 | | 2,4,5-Trichlorophenol | 40.000 | 38.990 | 2.5 | 67 | 0.00 |
| 45 | S | 2-Fluorobiphenyl | 80.000 | 82.676 | -3.3 | 72 | -0.01 |
| 46 | | 1,1'-Biphenyl | 40.000 | 39.920 | 0.2 | 70 | -0.01 |
| 47 | | 2-Chloronaphthalene | 40.000 | 39.241 | 1.9 | 68 | 0.00 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081424\
Data File : BF138988.D
Acq On : 14 Aug 2024 12:03
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_F
**LabSampleId :**
SSTDCCC040

Quant Time: Aug 14 12:36:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 48 | | 2-Nitroaniline | 40.000 | 42.361 | -5.9 | 74 | 0.00 |
| 49 | | Acenaphthylene | 40.000 | 39.371 | 1.6 | 68 | -0.01 |
| 50 | | Dimethylphthalate | 40.000 | 41.594 | -4.0 | 74 | -0.01 |
| 51 | | 2,6-Dinitrotoluene | 40.000 | 41.487 | -3.7 | 71 | 0.00 |
| 52 | C | Acenaphthene | 40.000 | 39.648 | 0.9 | 70 | -0.01 |
| 53 | | 3-Nitroaniline | 40.000 | 38.446 | 3.9 | 68 | 0.00 |
| 54 | P | 2,4-Dinitrophenol | 40.000 | 36.052 | 9.9 | 65 | 0.00 |
| 55 | | Dibenzofuran | 40.000 | 40.425 | -1.1 | 72 | -0.01 |
| 56 | P | 4-Nitrophenol | 40.000 | 47.672 | -19.2 | 84 | 0.01 |
| 57 | | 2,4-Dinitrotoluene | 40.000 | 42.640 | -6.6 | 74 | 0.00 |
| 58 | | Fluorene | 40.000 | 42.082 | -5.2 | 75 | 0.00 |
| 59 | | 2,3,4,6-Tetrachlorophenol | 40.000 | 38.824 | 2.9 | 69 | 0.00 |
| 60 | | Diethylphthalate | 40.000 | 43.665 | -9.2 | 79 | 0.00 |
| 61 | | 4-Chlorophenyl-phenylether | 40.000 | 41.474 | -3.7 | 74 | -0.01 |
| 62 | | 4-Nitroaniline | 40.000 | 39.940 | 0.2 | 71 | 0.00 |
| 63 | | Azobenzene | 40.000 | 40.516 | -1.3 | 72 | -0.01 |
| 64 | I | Phenanthrene-d10 | 20.000 | 20.000 | 0.0 | 75 | -0.01 |
| 65 | | 4,6-Dinitro-2-methylphenol | 40.000 | 36.964 | 7.6 | 68 | 0.00 |
| 66 | c | n-Nitrosodiphenylamine | 40.000 | 39.795 | 0.5 | 74 | 0.00 |
| 67 | | 4-Bromophenyl-phenylether | 40.000 | 39.102 | 2.2 | 73 | -0.01 |
| 68 | | Hexachlorobenzene | 40.000 | 39.584 | 1.0 | 76 | 0.00 |
| 69 | | Atrazine | 40.000 | 37.660 | 5.9 | 70 | 0.00 |
| 70 | C | Pentachlorophenol | 40.000 | 37.365 | 6.6 | 69 | 0.00 |
| 71 | | Phenanthrene | 40.000 | 40.041 | -0.1 | 76 | -0.01 |
| 72 | | Anthracene | 40.000 | 39.749 | 0.6 | 76 | -0.01 |
| 73 | | Carbazole | 40.000 | 38.844 | 2.9 | 73 | 0.00 |
| 74 | | Di-n-butylphthalate | 40.000 | 43.590 | -9.0 | 81 | -0.01 |
| 75 | C | Fluoranthene | 40.000 | 38.894 | 2.8 | 73 | -0.01 |
| 76 | I | Chrysene-d12 | 20.000 | 20.000 | 0.0 | 66 | 0.00 |
| 77 | | Benzidine | 40.000 | 35.583 | 11.0 | 52 | 0.00 |
| 78 | | Pyrene | 40.000 | 40.426 | -1.1 | 72 | -0.01 |
| 79 | S | Terphenyl-d14 | 80.000 | 82.278 | -2.8 | 73 | 0.00 |
| 80 | | Butylbenzylphthalate | 40.000 | 41.563 | -3.9 | 66 | -0.01 |
| 81 | | Benzo(a)anthracene | 40.000 | 38.218 | 4.5 | 62 | 0.00 |
| 82 | | 3,3'-Dichlorobenzidine | 40.000 | 41.184 | -3.0 | 67 | 0.00 |
| 83 | | Chrysene | 40.000 | 41.069 | -2.7 | 69 | 0.00 |
| 84 | | Bis(2-ethylhexyl)phthalate | 40.000 | 36.776 | 8.1 | 56 | -0.02 |
| 85 | c | Di-n-octyl phthalate | 40.000 | 33.003 | 17.5 | 51 | -0.02 |
| 86 | I | Perylene-d12 | 20.000 | 20.000 | 0.0 | 58 | 0.00 |
| 87 | | Indeno(1,2,3-cd)pyrene | 40.000 | 36.769 | 8.1 | 54 | 0.00 |
| 88 | | Benzo(b)fluoranthene | 40.000 | 41.706 | -4.3 | 61 | 0.00 |
| 89 | | Benzo(k)fluoranthene | 40.000 | 39.808 | 0.5 | 61 | 0.00 |
| 90 | C | Benzo(a)pyrene | 40.000 | 40.928 | -2.3 | 60 | 0.00 |
| 91 | | Dibenzo(a,h)anthracene | 40.000 | 36.814 | 8.0 | 55 | 0.00 |
| 92 | | Benzo(g,h,i)perylene | 40.000 | 35.760 | 10.6 | 52 | 0.00 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081424\
Data File : BF138988.D
Acq On : 14 Aug 2024 12:03
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_F
**LabSampleId :**
SSTDCCC040

Quant Time: Aug 14 12:36:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|

(#) = Out of Range SPCC's out = 0 CCC's out = 0

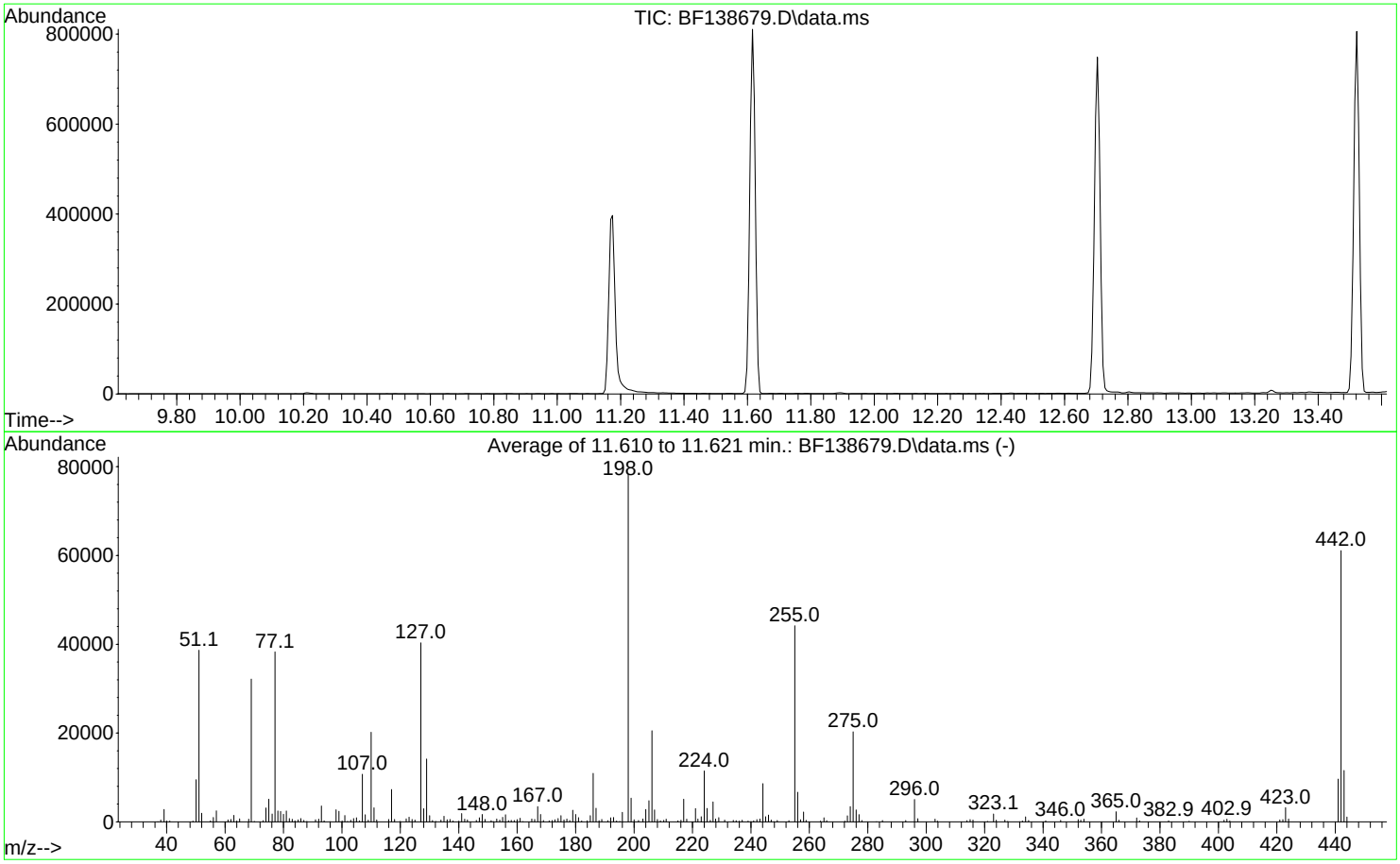
# QC SAMPLE DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138679.D
Acq On : 30 Jul 2024 12:24
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Jul 30 17:50:01 2024



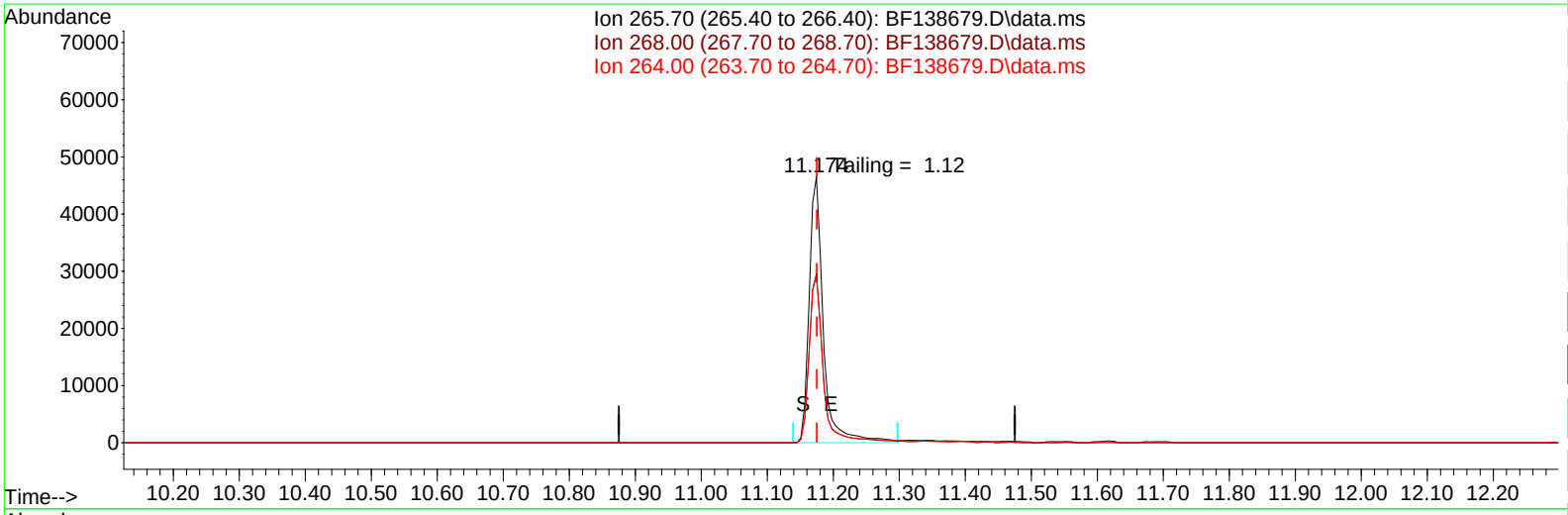

AutoFind: Scans 1618, 1619, 1620; Background Corrected with Scan 1612

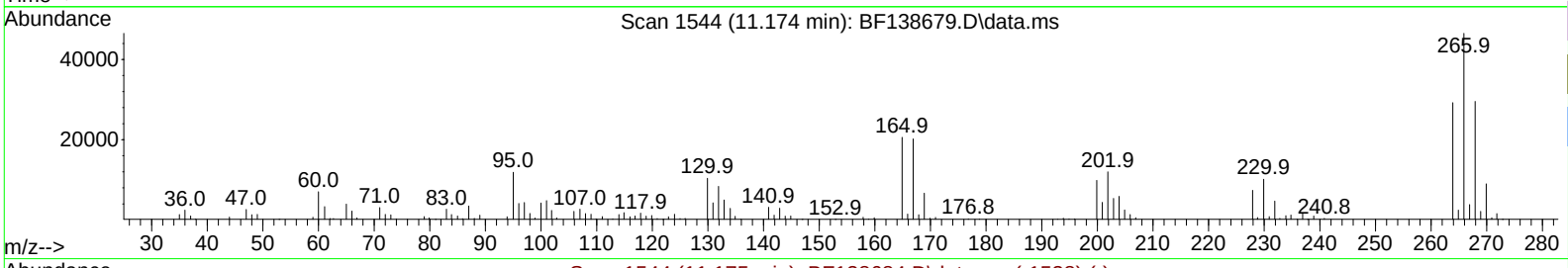
| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 10 | 80 | 49.4 | 38677 | PASS |
| 68 | 69 | 0.00 | 2 | 1.9 | 605 | PASS |
| 69 | 198 | 0.00 | 100 | 41.1 | 32171 | PASS |
| 70 | 69 | 0.00 | 2 | 0.4 | 120 | PASS |
| 127 | 198 | 10 | 80 | 51.5 | 40312 | PASS |
| 197 | 198 | 0.00 | 2 | 0.0 | 0 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 78240 | PASS |
| 199 | 198 | 5 | 9 | 6.8 | 5335 | PASS |
| 275 | 198 | 10 | 60 | 25.9 | 20277 | PASS |
| 365 | 198 | 1 | 100 | 2.9 | 2288 | PASS |
| 441 | 198 | 0.01 | 100 | 12.3 | 9630 | PASS |
| 442 | 442 | 50 | 100 | 100.0 | 61072 | PASS |
| 443 | 442 | 15 | 24 | 18.9 | 11558 | PASS |

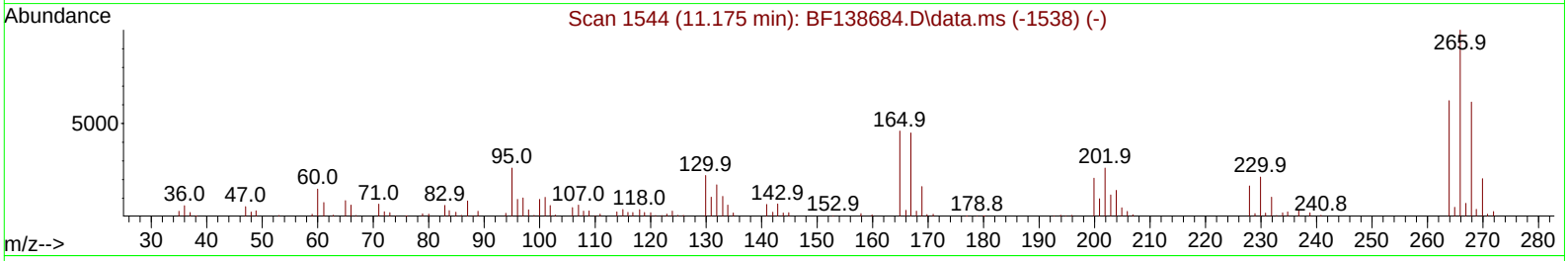
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138679.D
Acq On : 30 Jul 2024 12:24
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
DFTPP

Quant Time: Jul 30 18:29:17 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration




TIC: BF138679.D\data.ms

**(70) Pentachlorophenol (C)**

**11.174min (-0.001) 37845.67 ng**

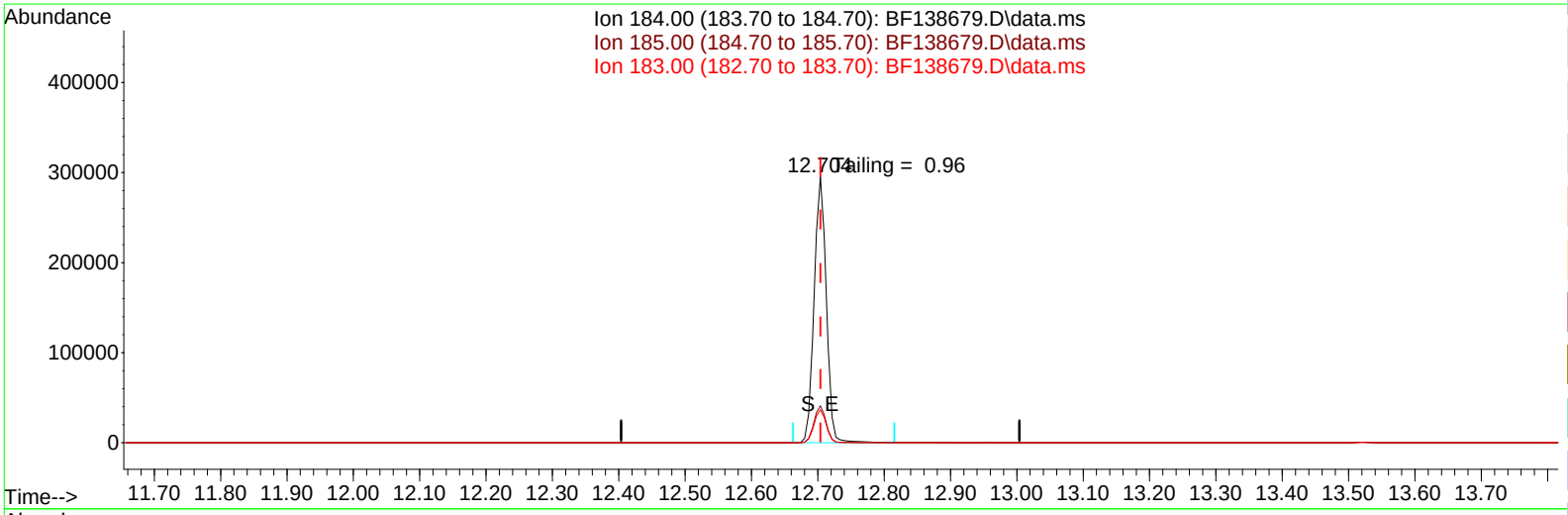
**response 69604**

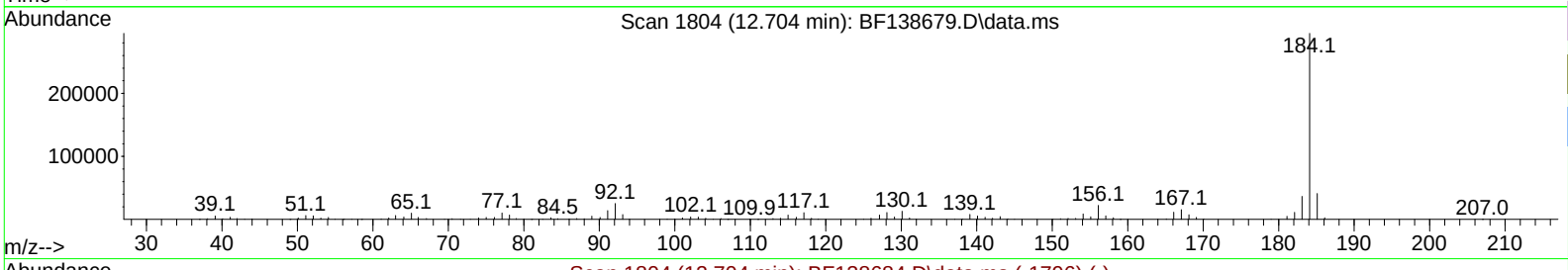
| Ion | Exp% | Act% |
|---|---|---|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 61.50 | 63.56 |
| 264.00 | 62.20 | 62.86 |
| 0.00 | 0.00 | 0.00 |

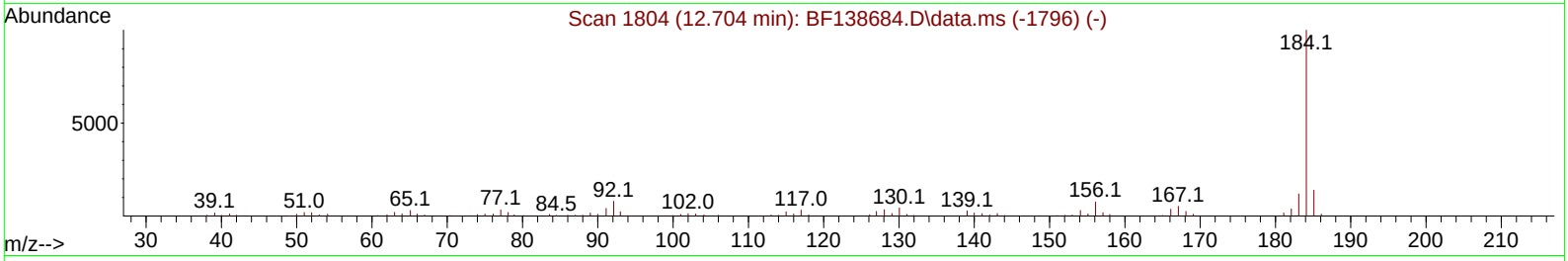
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF073024\
Data File : BF138679.D
Acq On : 30 Jul 2024 12:24
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
DFTPP

Quant Time: Jul 30 18:29:17 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration




TIC: BF138679.D\data.ms

**(77) Benzidine**

**12.704min (-0.000) 0.00 ng**

**response 376863**

| Ion | Exp% | Act% |
|---|---|---|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 13.90 | 13.91 |
| 183.00 | 12.00 | 12.39 |
| 0.00 | 0.00 | 0.00 |

**Instrument :**
BNA_F
**ClientSampleId :**
DFTPP

## DDT Breakdown

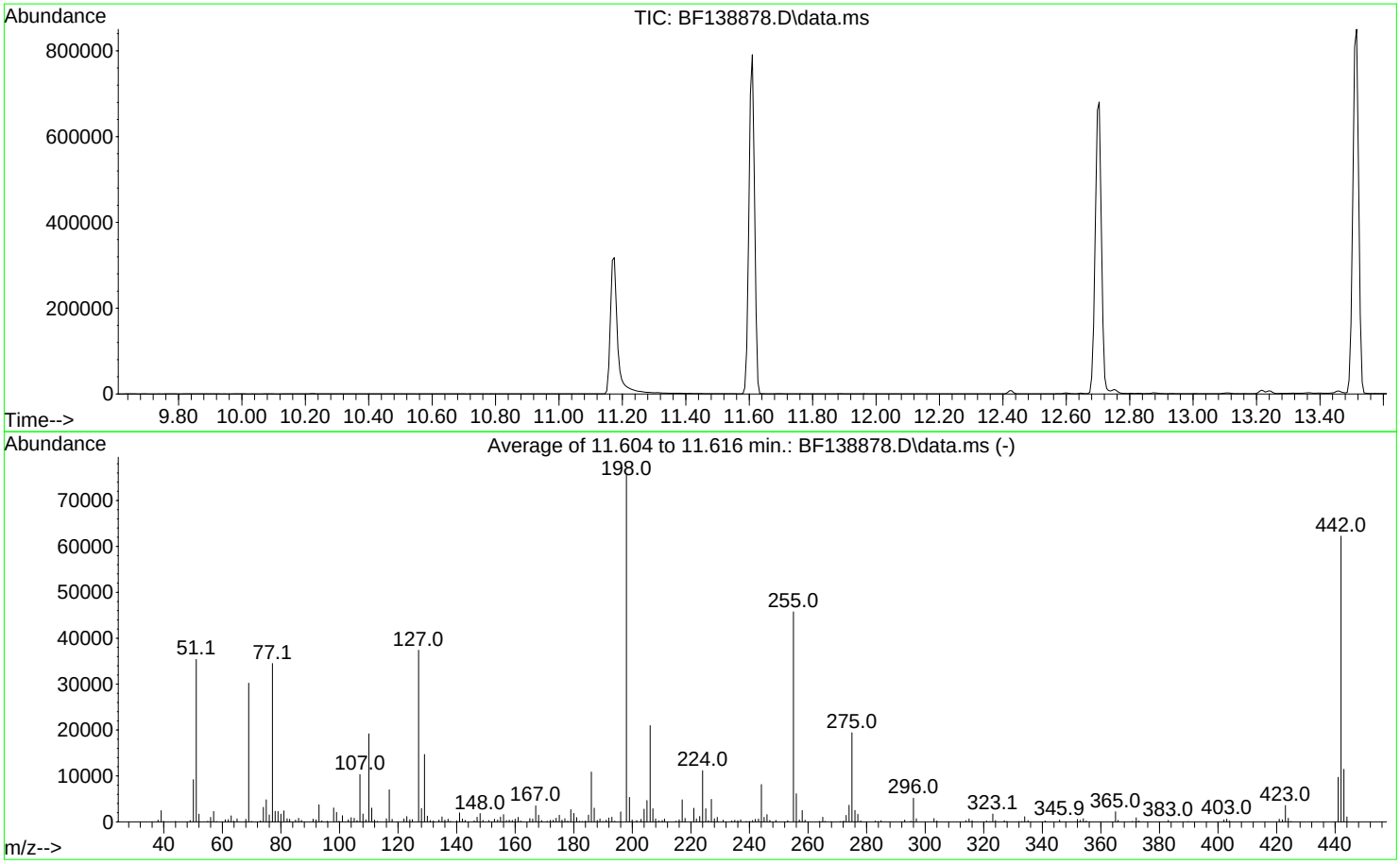
| Date | Instrument Name | DFTPP Data File |
|---|---|---|
| 7/30/2024 | BNA_F | BF138679.D |
| | | |
| | | |
| **Compound Name** | **Response** | **Retention Time** |
| | | |
| DDT | 187682 | 13.521 |
| DDD | 3715 | 13.251 |
| DDE | 369 | 12.886 |
| | | |
| | | |
| **SUM(DDD+DDE)** | **SUM(DDT+DDD+DDE)** | **% Breakdown Of DDT** |
| | | |
| 4084 | 191766 | 2.13 |
| | | |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080924\
Data File : BF138878.D
Acq On : 09 Aug 2024 09:17
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Jul 30 17:50:01 2024




AutoFind: Scans 1617, 1618, 1619; Background Corrected with Scan 1610

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 10 | 80 | 46.8 | 35389 | PASS |
| 68 | 69 | 0.00 | 2 | 1.9 | 576 | PASS |
| 69 | 198 | 0.00 | 100 | 39.9 | 30211 | PASS |
| 70 | 69 | 0.00 | 2 | 0.4 | 118 | PASS |
| 127 | 198 | 10 | 80 | 49.4 | 37373 | PASS |
| 197 | 198 | 0.00 | 2 | 0.0 | 0 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 75667 | PASS |
| 199 | 198 | 5 | 9 | 7.1 | 5335 | PASS |
| 275 | 198 | 10 | 60 | 25.7 | 19429 | PASS |
| 365 | 198 | 1 | 100 | 2.9 | 2201 | PASS |
| 441 | 198 | 0.01 | 100 | 12.8 | 9714 | PASS |
| 442 | 442 | 50 | 100 | 100.0 | 62237 | PASS |
| 443 | 442 | 15 | 24 | 18.4 | 11446 | PASS |

**Instrument :**
BNA_F
**ClientSampleId :**
DFTPP

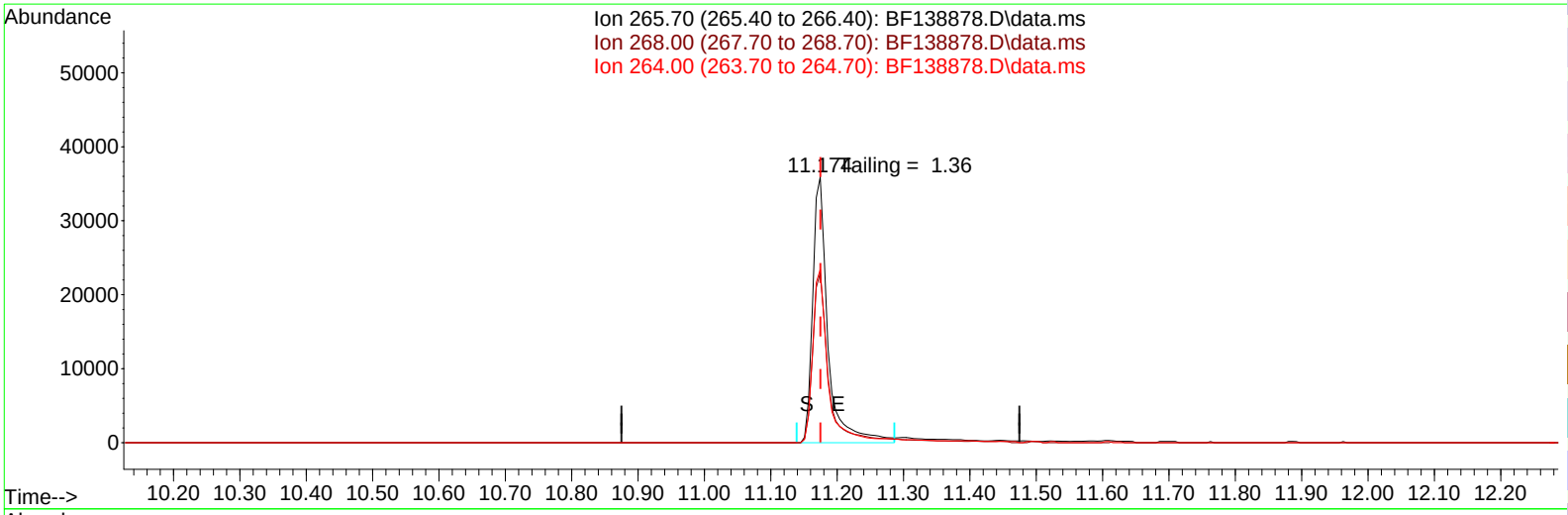
## DDT Breakdown

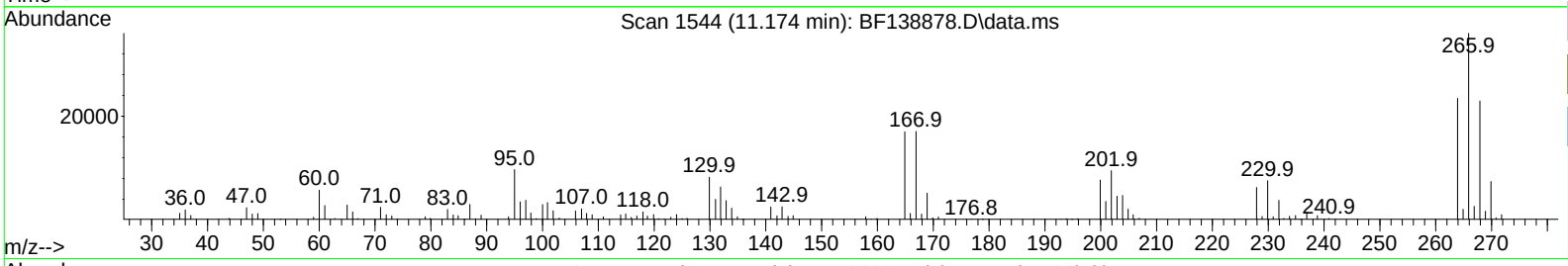
| Date | Instrument Name | DFTPP Data File |
|---|---|---|
| 8/9/2024 | BNA_F | BF138878.D |
| | | |
| | | |
| **Compound Name** | **Response** | **Retention Time** |
| | | |
| DDT | 209857 | 13.515 |
| DDD | 5443 | 13.215 |
| DDE | 1045 | 12.88 |
| | | |
| | | |
| **SUM(DDD+DDE)** | **SUM(DDT+DDD+DDE)** | **% Breakdown Of DDT** |
| | | |
| 6488 | 216345 | 3.00 |
| | | |

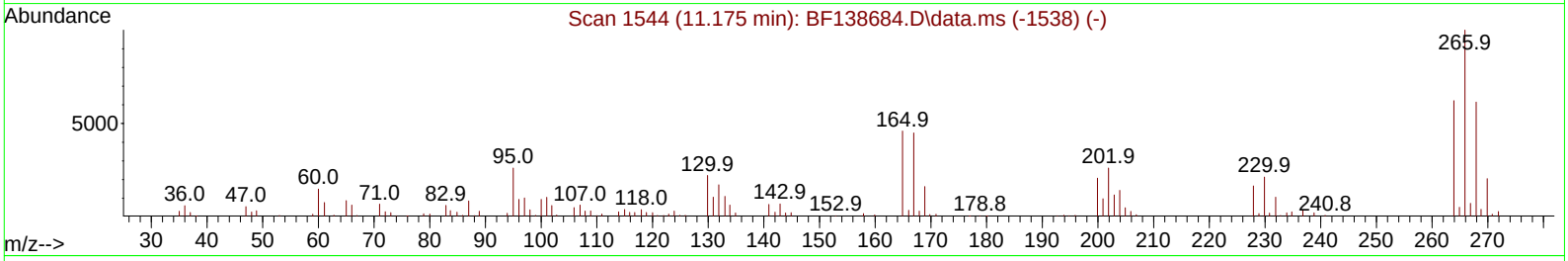
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080924\
Data File : BF138878.D
Acq On : 09 Aug 2024 09:17
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
DFTPP

Quant Time: Aug 09 10:51:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration




TIC: BF138878.D\data.ms

**(70) Pentachlorophenol (C)**

**11.174min (-0.001) 26324.57 ng**

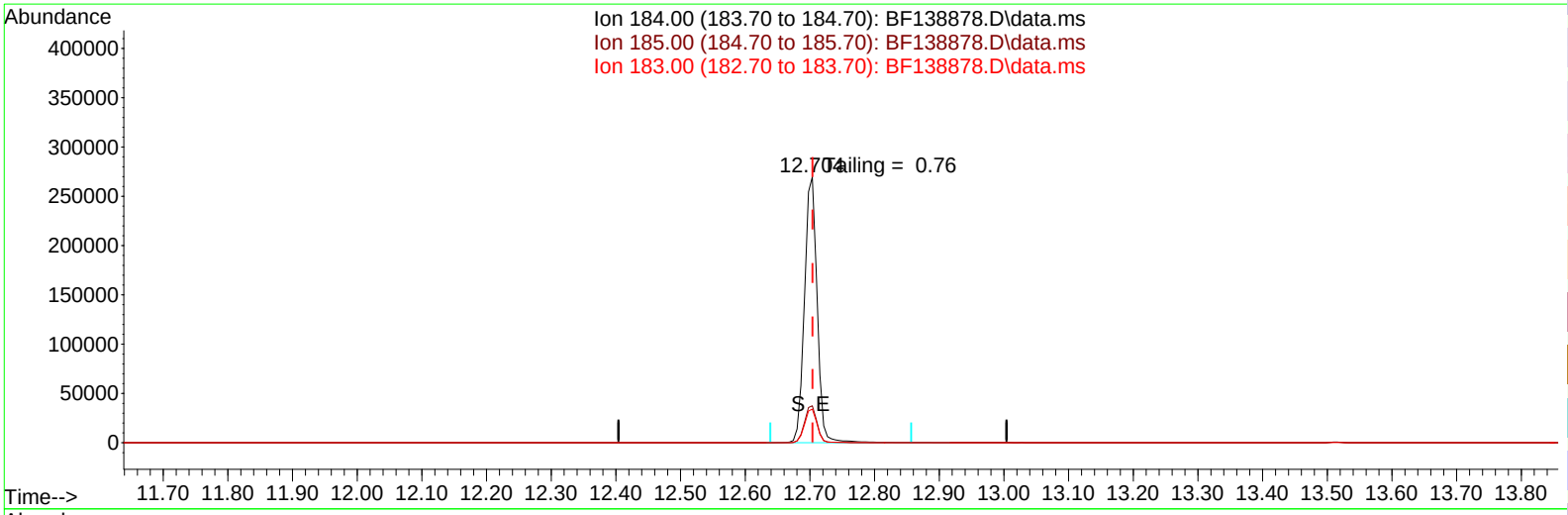
**response 57700**

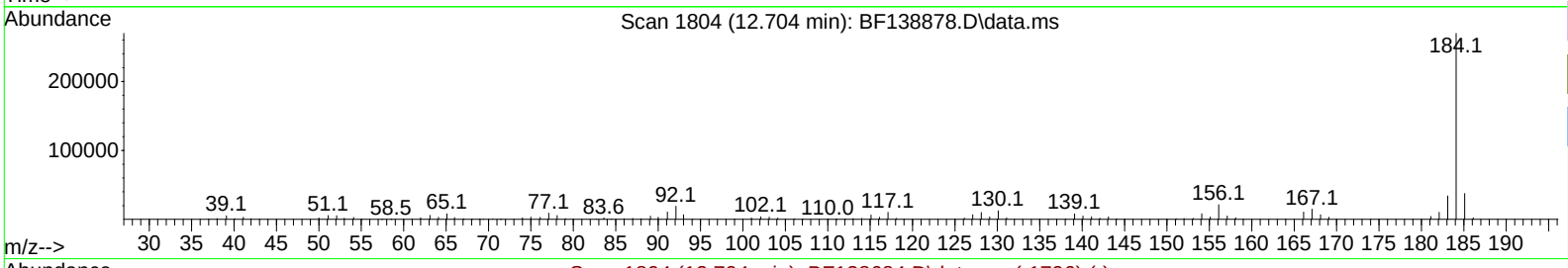
| Ion | Exp% | Act% |
|---|---|---|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 61.50 | 63.86 |
| 264.00 | 62.20 | 65.20 |
| 0.00 | 0.00 | 0.00 |

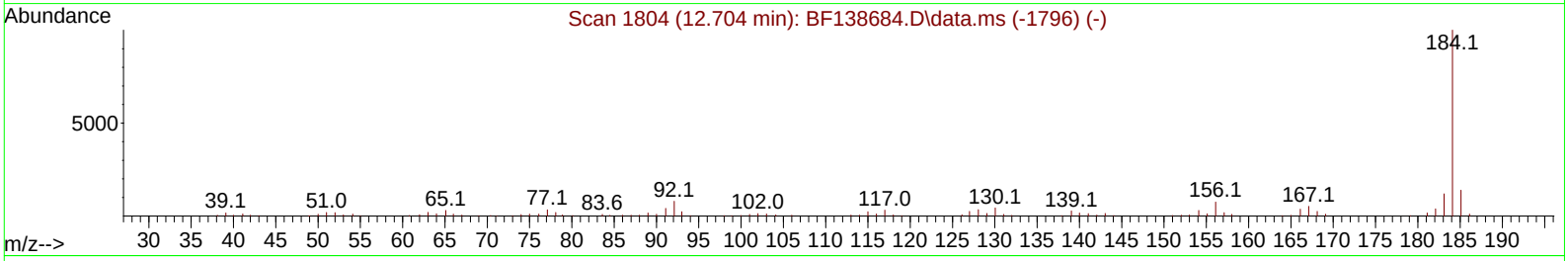
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080924\
Data File : BF138878.D
Acq On : 09 Aug 2024 09:17
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
DFTPP

Quant Time: Aug 09 10:51:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration




TIC: BF138878.D\data.ms

**(77) Benzidine**

**12.704min (-0.000) 0.00 ng**

**response 368946**

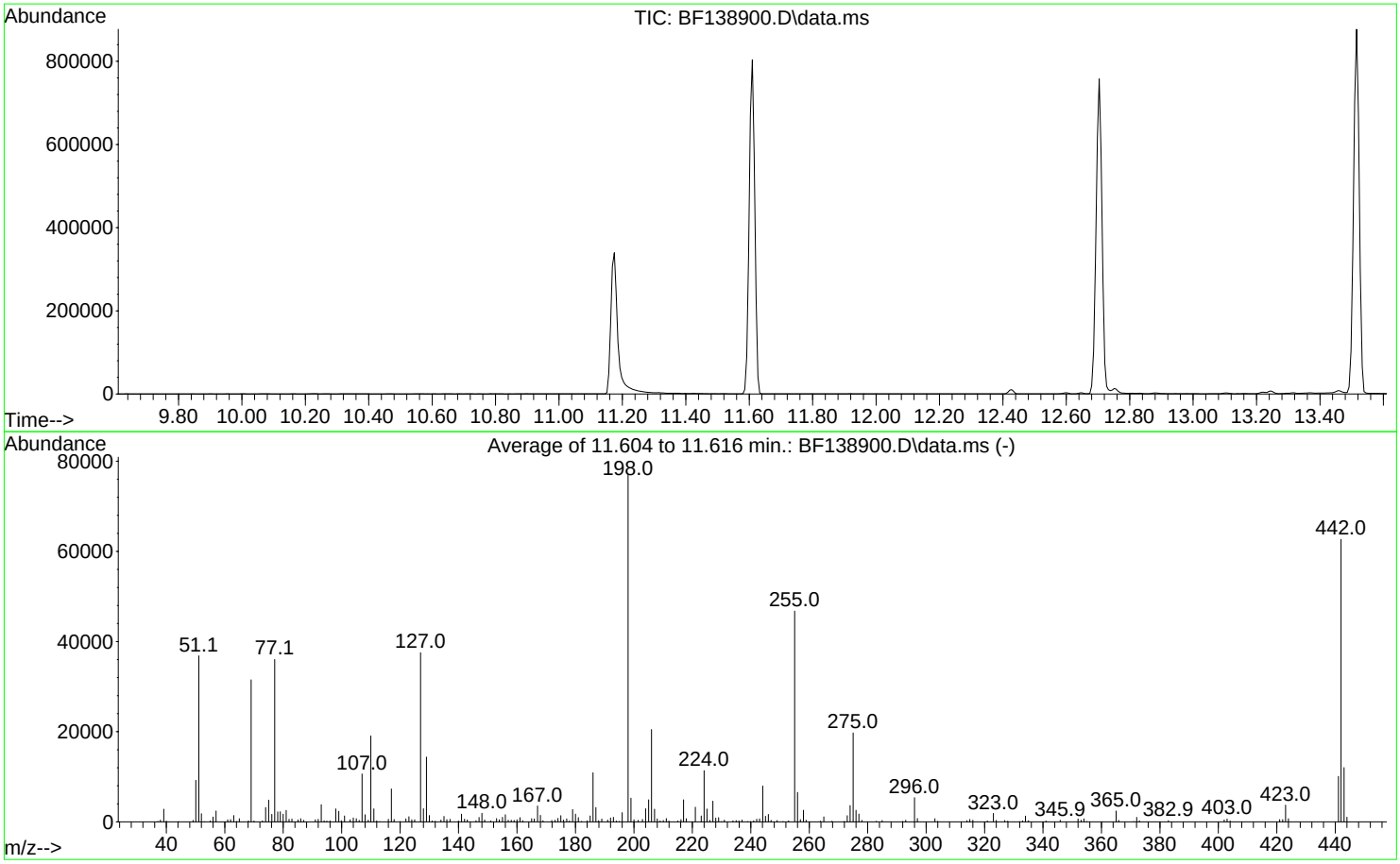
| Ion | Exp% | Act% |
|---|---|---|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 13.90 | 13.92 |
| 183.00 | 12.00 | 12.68 |
| 0.00 | 0.00 | 0.00 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081024\
Data File : BF138900.D
Acq On : 10 Aug 2024 10:12
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Jul 30 17:50:01 2024




AutoFind: Scans 1617, 1618, 1619; Background Corrected with Scan 1611

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 10 | 80 | 47.8 | 36840 | PASS |
| 68 | 69 | 0.00 | 2 | 0.8 | 242 | PASS |
| 69 | 198 | 0.00 | 100 | 40.9 | 31507 | PASS |
| 70 | 69 | 0.00 | 2 | 0.6 | 200 | PASS |
| 127 | 198 | 10 | 80 | 48.7 | 37536 | PASS |
| 197 | 198 | 0.00 | 2 | 0.0 | 0 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 77061 | PASS |
| 199 | 198 | 5 | 9 | 6.8 | 5274 | PASS |
| 275 | 198 | 10 | 60 | 25.6 | 19728 | PASS |
| 365 | 198 | 1 | 100 | 3.1 | 2410 | PASS |
| 441 | 198 | 0.01 | 100 | 13.1 | 10083 | PASS |
| 442 | 442 | 50 | 100 | 100.0 | 62667 | PASS |
| 443 | 442 | 15 | 24 | 19.2 | 12045 | PASS |

**Instrument :**
BNA_F
**ClientSampleId :**
DFTPP

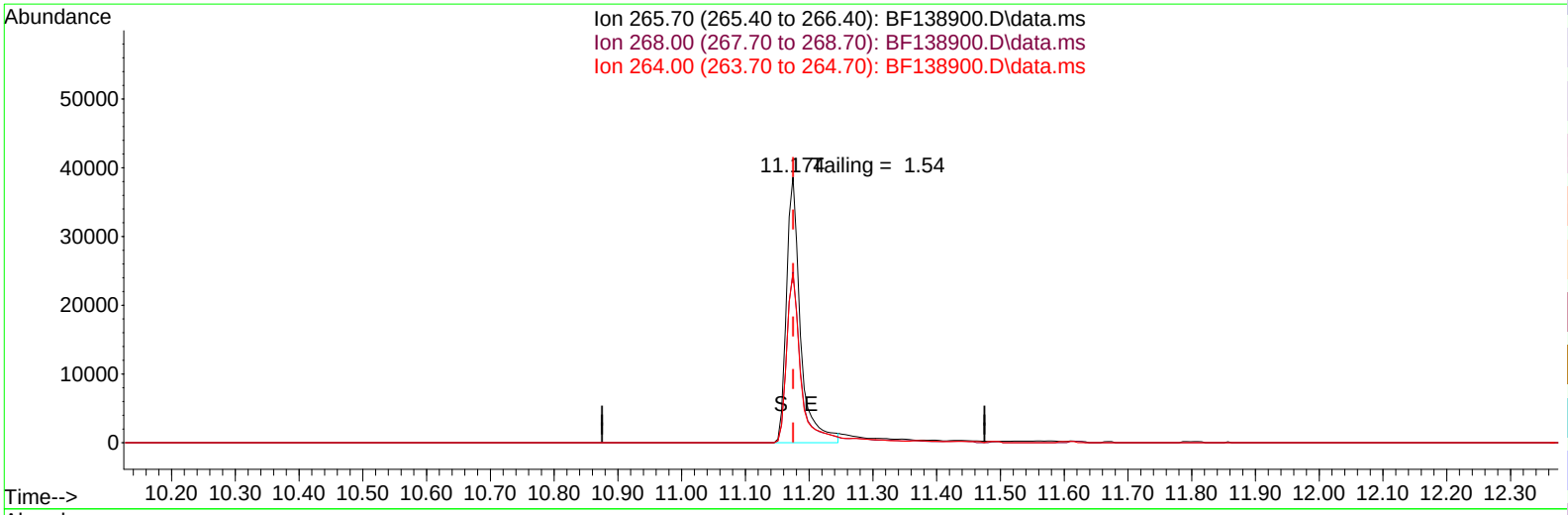
## DDT Breakdown

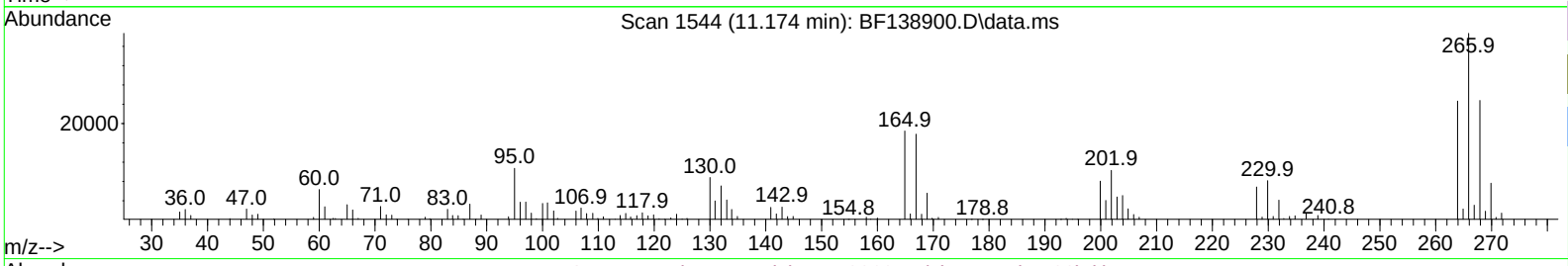
| Date | Instrument Name | DFTPP Data File |
|---|---|---|
| 8/10/2024 | BNA_F | BF138900.D |
| | | |
| | | |
| **Compound Name** | **Response** | **Retention Time** |
| | | |
| DDT | 206441 | 13.515 |
| DDD | 4194 | 13.245 |
| DDE | 1167 | 12.88 |
| | | |
| | | |
| **SUM(DDD+DDE)** | **SUM(DDT+DDD+DDE)** | **% Breakdown Of DDT** |
| | | |
| 5361 | 211802 | 2.53 |
| | | |

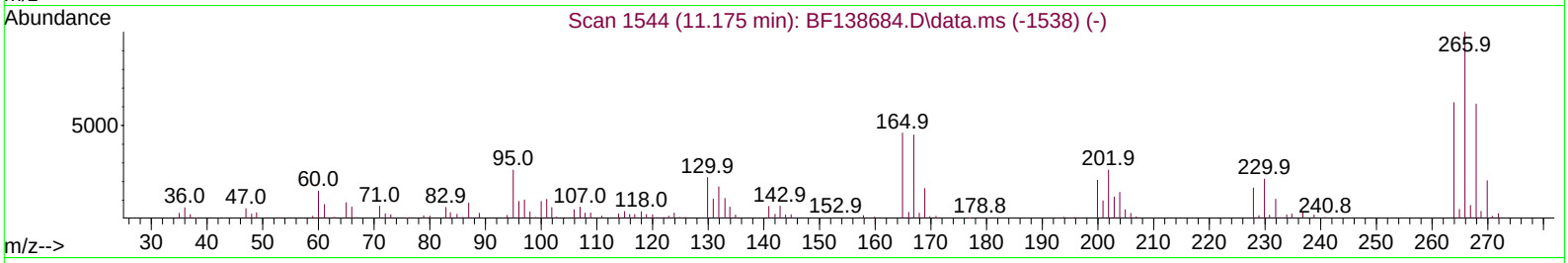
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081024\
Data File : BF138900.D
Acq On : 10 Aug 2024 10:12
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
DFTPP

Quant Time: Aug 12 00:49:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration




TIC: BF138900.D\data.ms

**(70) Pentachlorophenol (C)**

**11.174min (-0.001) 42180.16 ng**

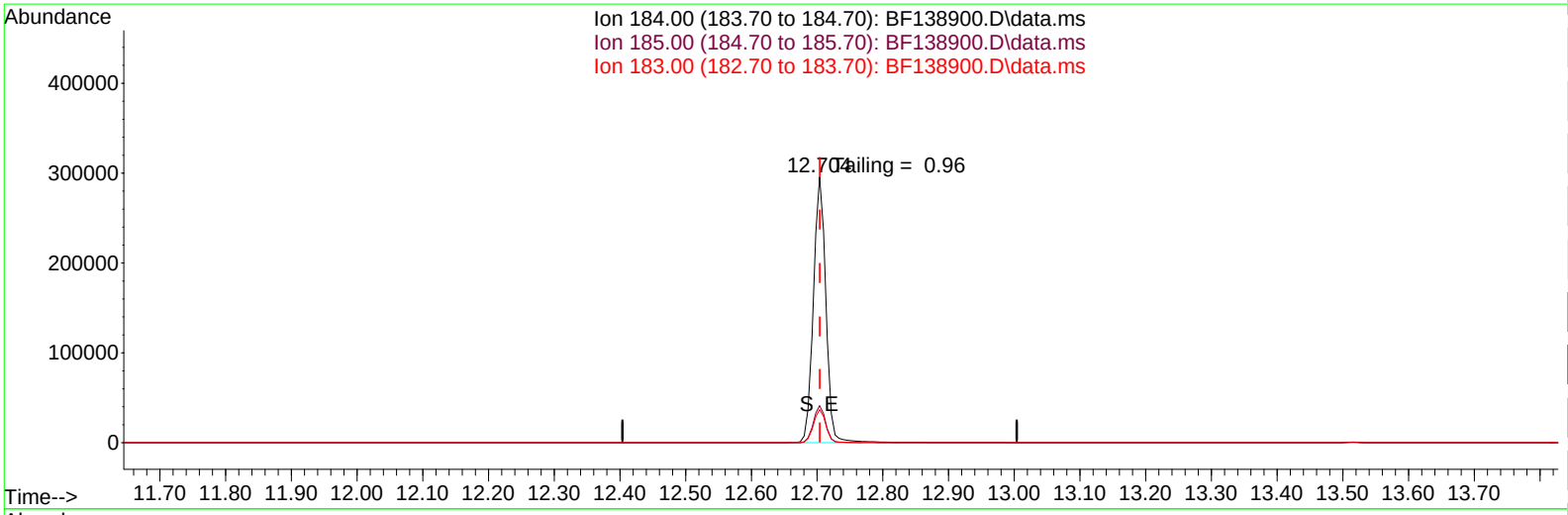
**response 64186**

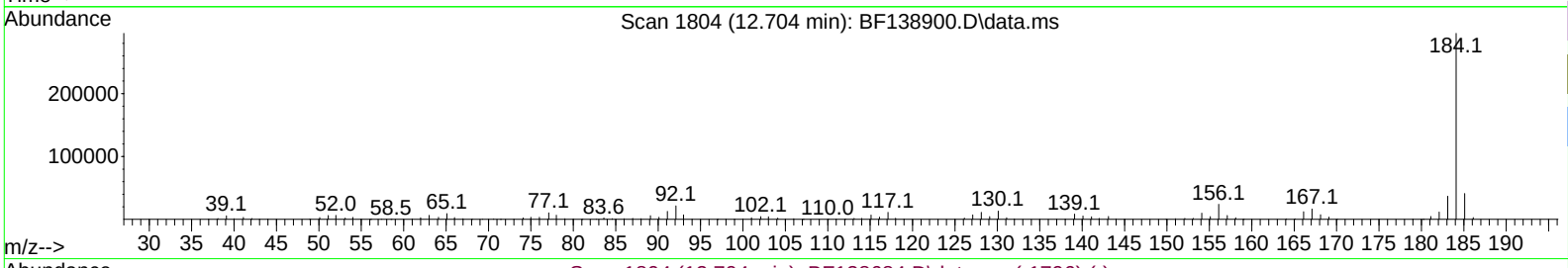
| Ion | Exp% | Act% |
|---|---|---|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 61.50 | 64.11 |
| 264.00 | 62.20 | 63.74 |
| 0.00 | 0.00 | 0.00 |

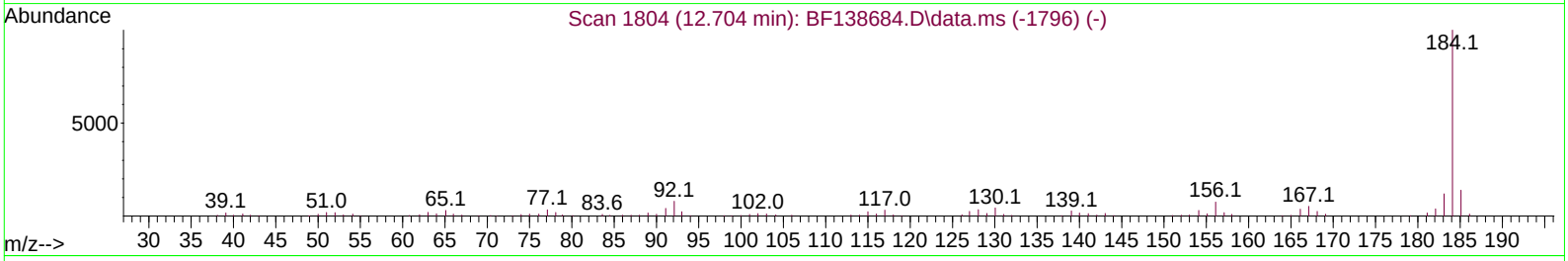
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081024\
Data File : BF138900.D
Acq On : 10 Aug 2024 10:12
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
DFTPP

Quant Time: Aug 12 00:49:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration




TIC: BF138900.D\data.ms

**(77) Benzidine**

**12.704min (-0.000) 0.00 ng**

**response 391893**

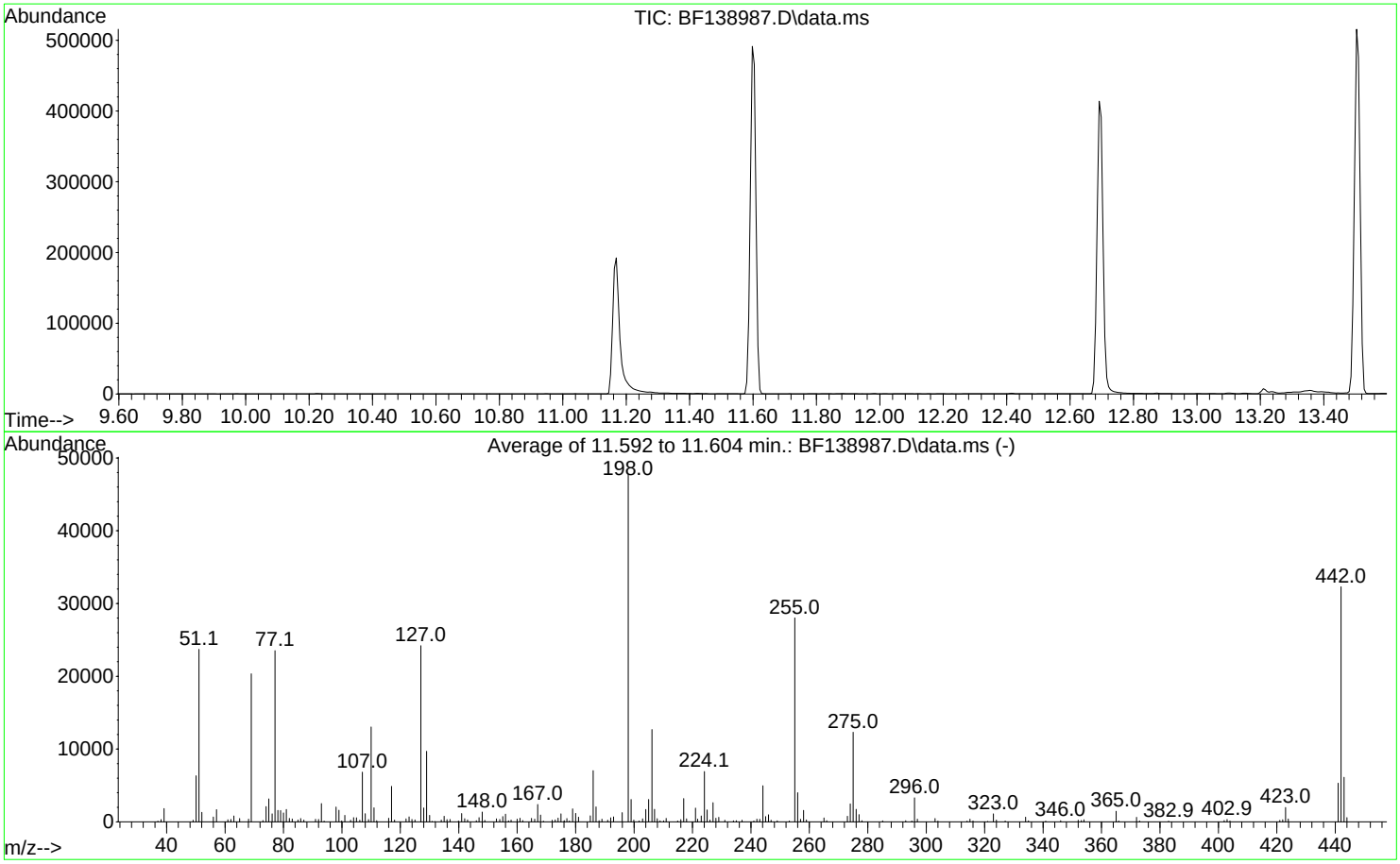
| Ion | Exp% | Act% |
|---|---|---|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 13.90 | 13.95 |
| 183.00 | 12.00 | 12.47 |
| 0.00 | 0.00 | 0.00 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081424\
Data File : BF138987.D
Acq On : 14 Aug 2024 11:33
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Jul 30 17:50:01 2024




AutoFind: Scans 1615, 1616, 1617; Background Corrected with Scan 1609

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 10 | 80 | 49.7 | 23707 | PASS |
| 68 | 69 | 0.00 | 2 | 1.8 | 376 | PASS |
| 69 | 198 | 0.00 | 100 | 42.6 | 20352 | PASS |
| 70 | 69 | 0.00 | 2 | 0.0 | 0 | PASS |
| 127 | 198 | 10 | 80 | 50.7 | 24208 | PASS |
| 197 | 198 | 0.00 | 2 | 0.0 | 0 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 47733 | PASS |
| 199 | 198 | 5 | 9 | 6.4 | 3077 | PASS |
| 275 | 198 | 10 | 60 | 25.8 | 12322 | PASS |
| 365 | 198 | 1 | 100 | 3.0 | 1447 | PASS |
| 441 | 198 | 0.01 | 100 | 11.1 | 5317 | PASS |
| 442 | 442 | 50 | 100 | 100.0 | 32304 | PASS |
| 443 | 442 | 15 | 24 | 18.9 | 6121 | PASS |

**Instrument :**
BNA_F
**ClientSampleId :**
DFTPP

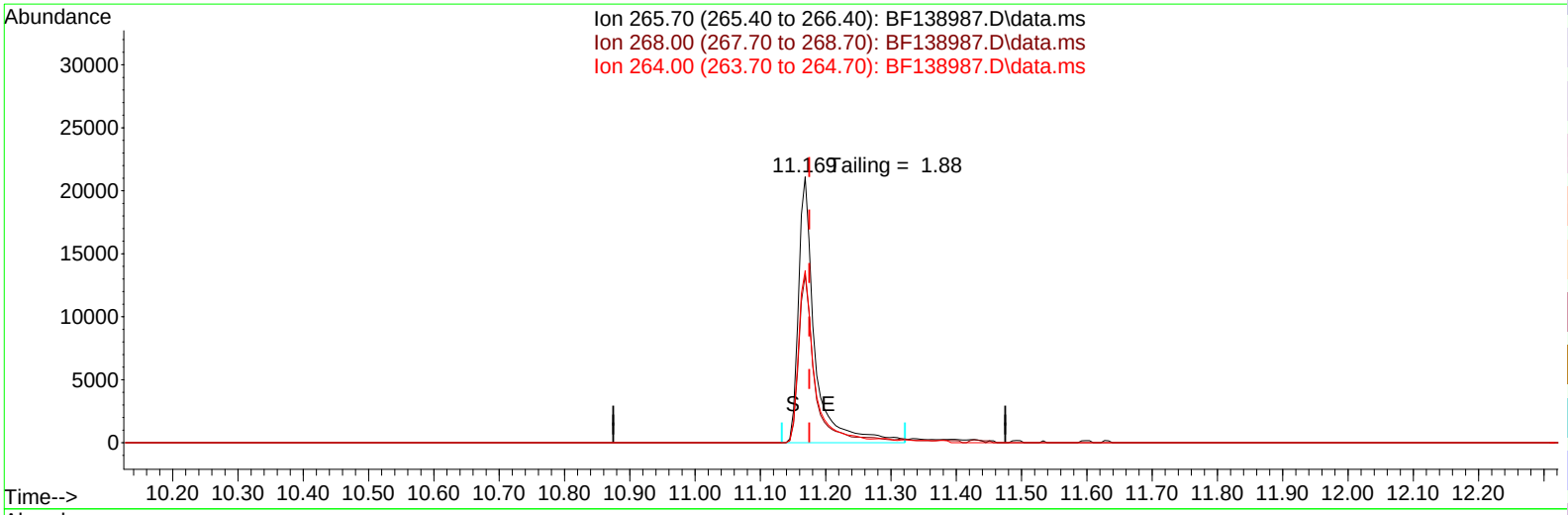
## DDT Breakdown

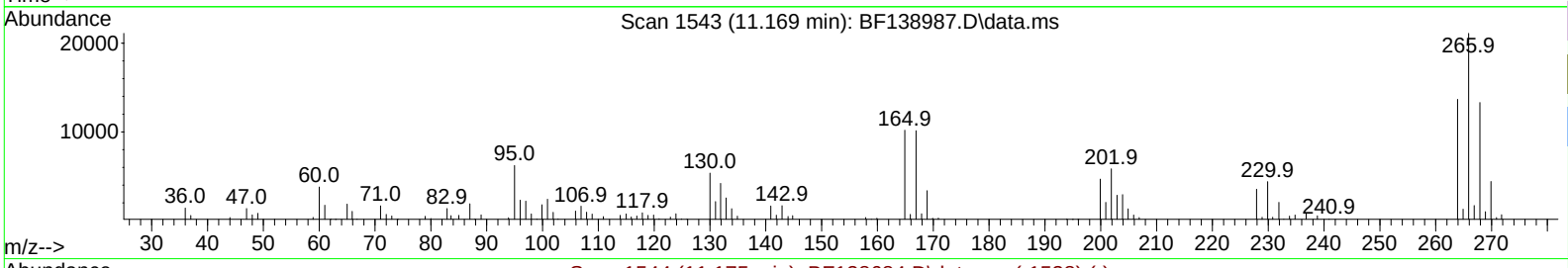
| Date | Instrument Name | DFTPP Data File |
|---|---|---|
| 8/14/2024 | BNA_F | BF138987.D |
| | | |
| | | |
| **Compound Name** | **Response** | **Retention Time** |
| | | |
| DDT | 122337 | 13.504 |
| DDD | 3496 | 13.21 |
| DDE | 243 | 12.874 |
| | | |
| | | |
| **SUM(DDD+DDE)** | **SUM(DDT+DDD+DDE)** | **% Breakdown Of DDT** |
| | | |
| 3739 | 126076 | 2.97 |
| | | |

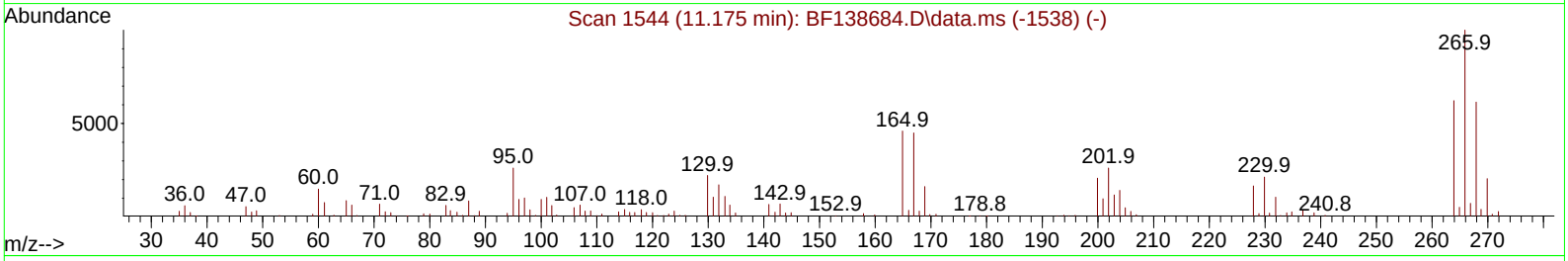
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081424\
Data File : BF138987.D
Acq On : 14 Aug 2024 11:33
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
DFTPP

Quant Time: Aug 14 12:15:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration




TIC: BF138987.D\data.ms

**(70) Pentachlorophenol (C)**

**11.169min (-0.006) 42832.92 ng**

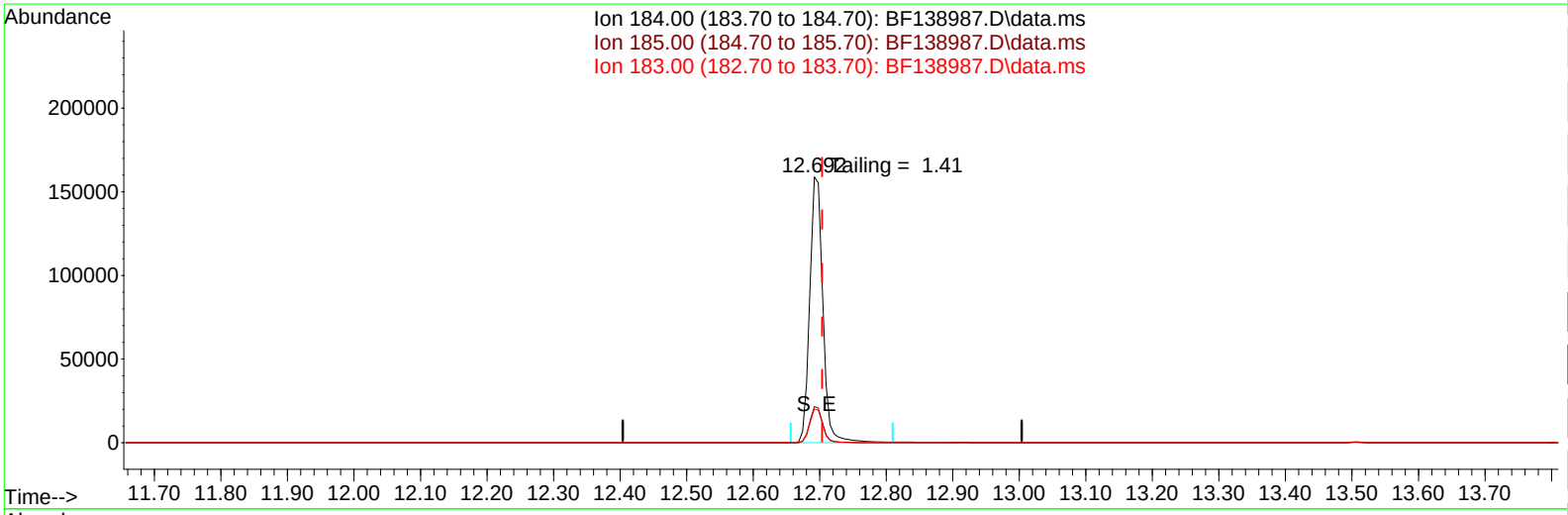
**response 37122**

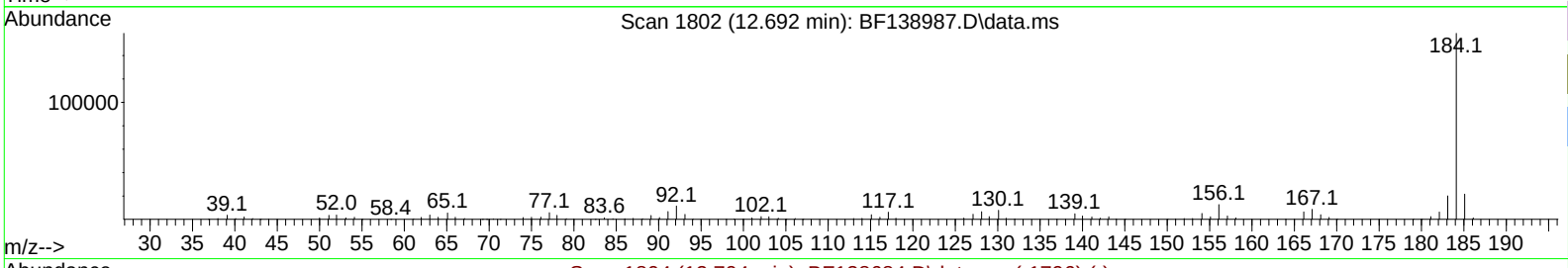
| Ion | Exp% | Act% |
|---|---|---|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 61.50 | 63.09 |
| 264.00 | 62.20 | 64.73 |
| 0.00 | 0.00 | 0.00 |

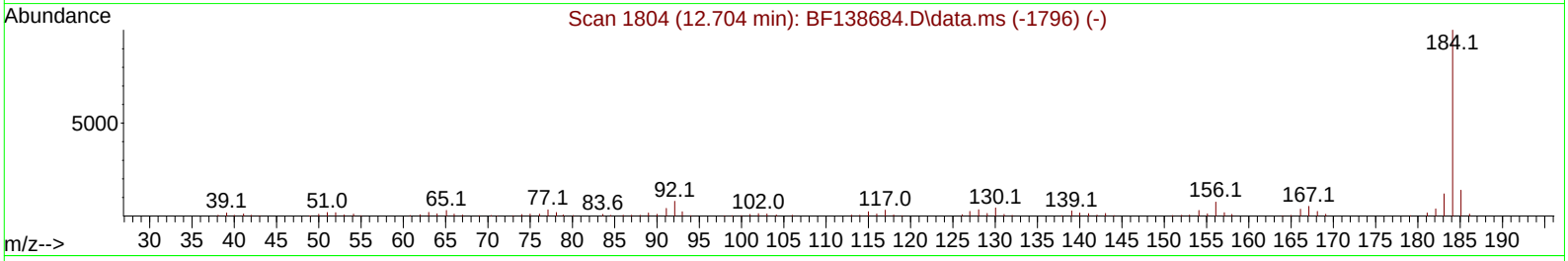
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081424\
Data File : BF138987.D
Acq On : 14 Aug 2024 11:33
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
DFTPP

Quant Time: Aug 14 12:15:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration




TIC: BF138987.D\data.ms

**(77) Benzidine**

**12.692min (-0.012) 0.00 ng**

**response 218193**

| Ion | Exp% | Act% |
|---|---|---|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 13.90 | 13.59 |
| 183.00 | 12.00 | 12.68 |
| 0.00 | 0.00 | 0.00 |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JACOBS Engineering Group, Inc. | Date Collected: | |
| Project: | Former Schlumberger Site Princeton NJ | Date Received: | |
| Client Sample ID: | PB162489BL | SDG No.: | P3457 |
| Lab Sample ID: | PB162489BL | Matrix: | Water |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOCMS Group6 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF138885.D | 1 | 08/05/24 08:25 | 08/09/24 12:55 | PB162489 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 110-86-1 | Pyridine | 1.60 | U | 1.60 | 5.00 | ug/L |
| 100-52-7 | Benzaldehyde | 4.00 | U | 4.00 | 10.0 | ug/L |
| 95-48-7 | 2-Methylphenol | 1.10 | U | 1.10 | 5.00 | ug/L |
| 65794-96-9 | 3+4-Methylphenols | 1.20 | U | 1.20 | 10.0 | ug/L |
| 67-72-1 | Hexachloroethane | 1.00 | U | 1.00 | 5.00 | ug/L |
| 98-95-3 | Nitrobenzene | 1.30 | U | 1.30 | 5.00 | ug/L |
| 91-20-3 | Naphthalene | 1.00 | U | 1.00 | 5.00 | ug/L |
| 87-68-3 | Hexachlorobutadiene | 1.30 | U | 1.30 | 5.00 | ug/L |
| 91-57-6 | 2-Methylnaphthalene | 1.10 | U | 1.10 | 5.00 | ug/L |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.89 | U | 0.89 | 5.00 | ug/L |
| 95-95-4 | 2,4,5-Trichlorophenol | 1.00 | U | 1.00 | 5.00 | ug/L |
| 208-96-8 | Acenaphthylene | 1.00 | U | 1.00 | 5.00 | ug/L |
| 83-32-9 | Acenaphthene | 0.81 | U | 0.81 | 5.00 | ug/L |
| 132-64-9 | Dibenzofuran | 0.93 | U | 0.93 | 5.00 | ug/L |
| 121-14-2 | 2,4-Dinitrotoluene | 1.50 | U | 1.50 | 5.00 | ug/L |
| 86-73-7 | Fluorene | 0.96 | U | 0.96 | 5.00 | ug/L |
| 118-74-1 | Hexachlorobenzene | 1.10 | U | 1.10 | 5.00 | ug/L |
| 87-86-5 | Pentachlorophenol | 1.90 | U | 1.90 | 10.0 | ug/L |
| 85-01-8 | Phenanthrene | 0.89 | U | 0.89 | 5.00 | ug/L |
| 120-12-7 | Anthracene | 1.10 | U | 1.10 | 5.00 | ug/L |
| 86-74-8 | Carbazole | 1.20 | U | 1.20 | 5.00 | ug/L |
| 84-74-2 | Di-n-butylphthalate | 1.50 | U | 1.50 | 5.00 | ug/L |
| 206-44-0 | Fluoranthene | 1.30 | U | 1.30 | 5.00 | ug/L |
| 129-00-0 | Pyrene | 1.10 | U | 1.10 | 5.00 | ug/L |
| 56-55-3 | Benzo(a)anthracene | 0.94 | U | 0.94 | 5.00 | ug/L |
| 218-01-9 | Chrysene | 0.86 | U | 0.86 | 5.00 | ug/L |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 1.90 | U | 1.90 | 5.00 | ug/L |
| 205-99-2 | Benzo(b)fluoranthene | 1.10 | U | 1.10 | 5.00 | ug/L |
| 207-08-9 | Benzo(k)fluoranthene | 1.20 | U | 1.20 | 5.00 | ug/L |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JACOBS Engineering Group, Inc. | Date Collected: | |
| Project: | Former Schlumberger Site Princeton NJ | Date Received: | |
| Client Sample ID: | PB162489BL | SDG No.: | P3457 |
| Lab Sample ID: | PB162489BL | Matrix: | Water |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOCMS Group6 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF138885.D | 1 | 08/05/24 08:25 | 08/09/24 12:55 | PB162489 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 50-32-8 | Benzo(a)pyrene | 1.70 | U | 1.70 | 5.00 | ug/L |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1.00 | U | 1.00 | 5.00 | ug/L |
| 53-70-3 | Dibenzo(a,h)anthracene | 1.20 | U | 1.20 | 5.00 | ug/L |
| 191-24-2 | Benzo(g,h,i)perylene | 1.20 | U | 1.20 | 5.00 | ug/L |
| 123-91-1 | 1,4-Dioxane | 1.30 | U | 1.30 | 5.00 | ug/L |
| 90-12-0 | 1-Methylnaphthalene | 0.86 | U | 0.86 | 5.00 | ug/L |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 166 | | 15 (10) - 110 (139) | 110% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 167 | * | 15 (10) - 110 (134) | 111% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 112 | | 30 (49) - 130 (133) | 112% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 110 | | 30 (52) - 130 (132) | 110% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 182 | * | 15 (32) - 110 (145) | 122% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 136 | * | 30 (36) - 130 (145) | 136% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 40100 | 6.84 | | | |
| 1146-65-2 | Naphthalene-d8 | 166000 | 8.122 | | | |
| 15067-26-2 | Acenaphthene-d10 | 99800 | 9.875 | | | |
| 1517-22-2 | Phenanthrene-d10 | 189000 | 11.363 | | | |
| 1719-03-5 | Chrysene-d12 | 112000 | 13.998 | | | |
| 1520-96-3 | Perylene-d12 | 76000 | 15.468 | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080924\
Data File : BF138885.D
Acq On : 09 Aug 2024 12:55
Operator : RC/JU
Sample : PB162489BL
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PB162489BL

Quant Time: Aug 09 13:17:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

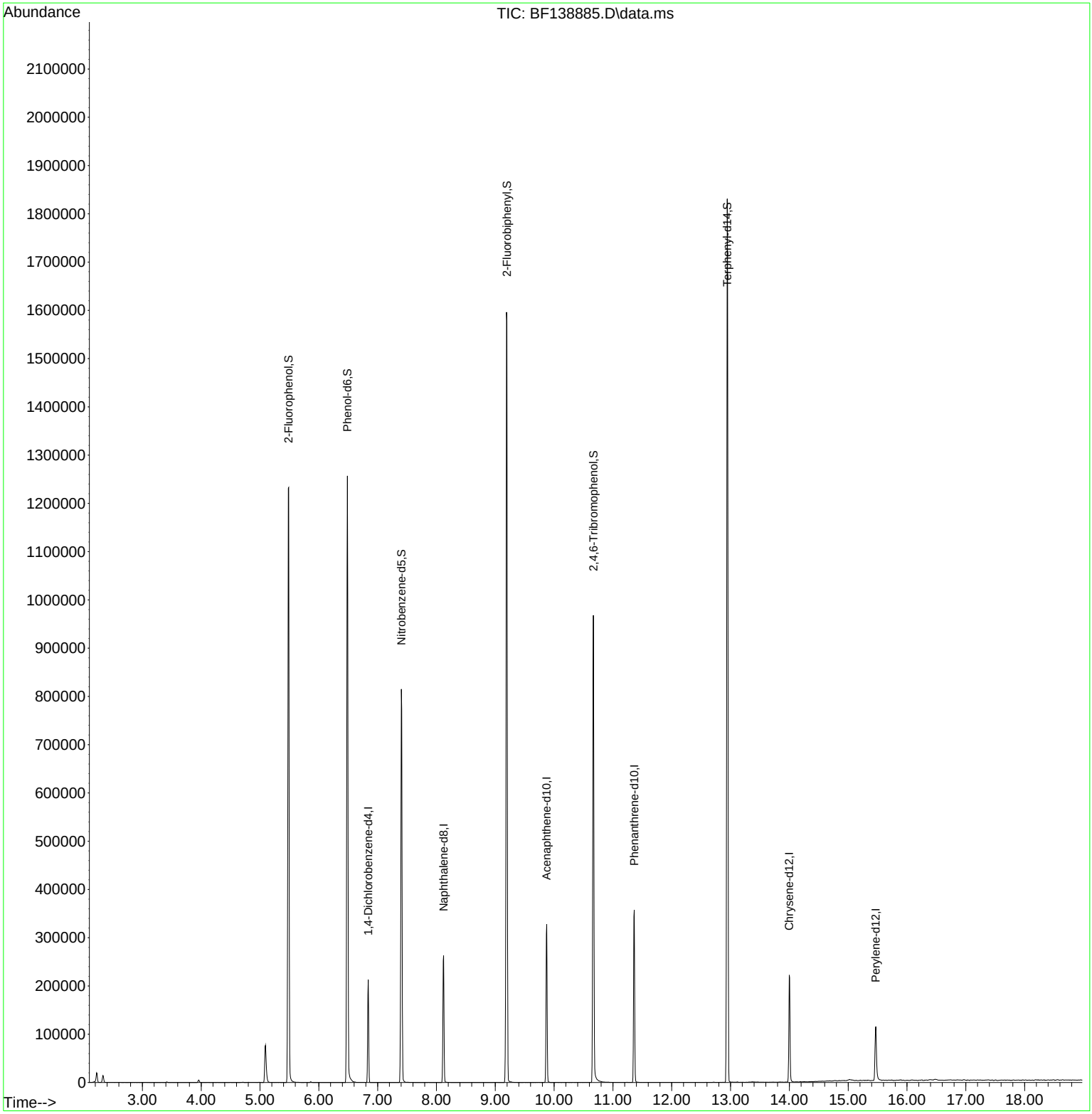
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.840 | 152 | 40127 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 8.122 | 136 | 165520 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 9.875 | 164 | 99849 | 20.000 | ng | 0.00 |
| 64) Phenanthrene-d10 | 11.363 | 188 | 189104 | 20.000 | ng | 0.00 |
| 76) Chrysene-d12 | 13.998 | 240 | 112088 | 20.000 | ng | 0.00 |
| 86) Perylene-d12 | 15.468 | 264 | 75976 | 20.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.487 | 112 | 430299 | 165.532 | ng | 0.02 |
| 7) Phenol-d6 | 6.487 | 99 | 582434 | 166.883 | ng | 0.00 |
| 23) Nitrobenzene-d5 | 7.404 | 82 | 380174 | 112.296 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.669 | 330 | 149189 | 182.406 | ng | 0.00 |
| 45) 2-Fluorobiphenyl | 9.198 | 172 | 732073 | 110.160 | ng | 0.00 |
| 79) Terphenyl-d14 | 12.945 | 244 | 910350 | 135.980 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |

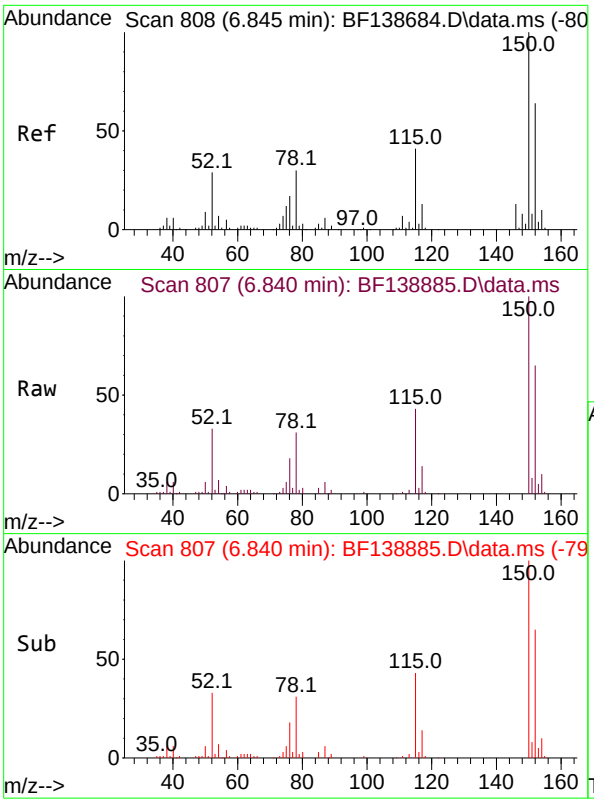
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080924\
Data File : BF138885.D
Acq On : 09 Aug 2024 12:55
Operator : RC/JU
Sample : PB162489BL
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PB162489BL

Quant Time: Aug 09 13:17:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration



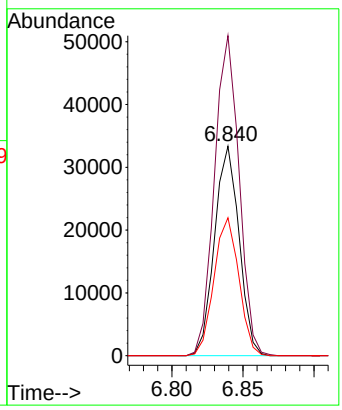


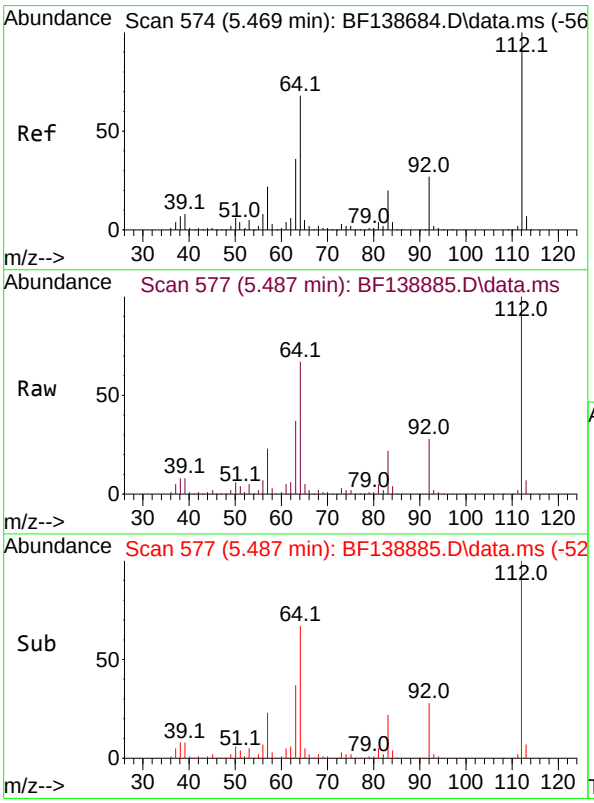

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.840 min Scan# 8
Delta R.T. -0.005 min
Lab File: BF138885.D
Acq: 09 Aug 2024 12:55

**Instrument :**
BNA_F
**ClientSampleId :**
PB162489BL

Tgt Ion:152 Resp: 40127

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 152.8 | 126.0 | 189.0 |
| 115 | 65.9 | 51.7 | 77.5 |

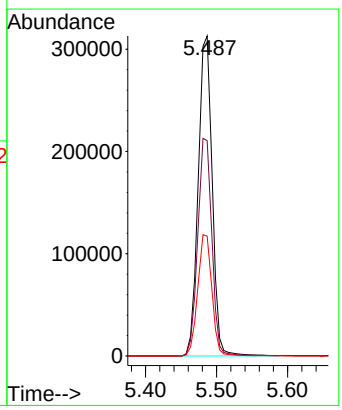


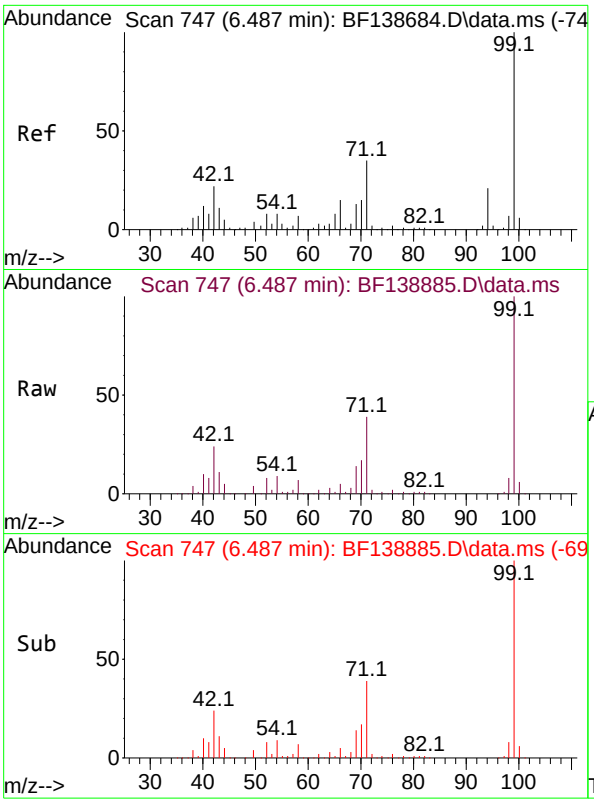




#5
2-Fluorophenol
Concen: 165.532 ng
RT: 5.487 min Scan# 577
Delta R.T. 0.018 min
Lab File: BF138885.D
Acq: 09 Aug 2024 12:55

Tgt Ion:112 Resp: 430299

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 67.3 | 54.2 | 81.4 |
| 63 | 37.5 | 28.7 | 43.1 |



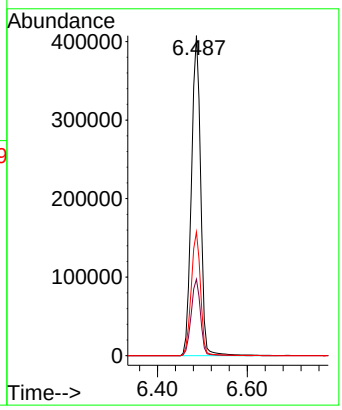


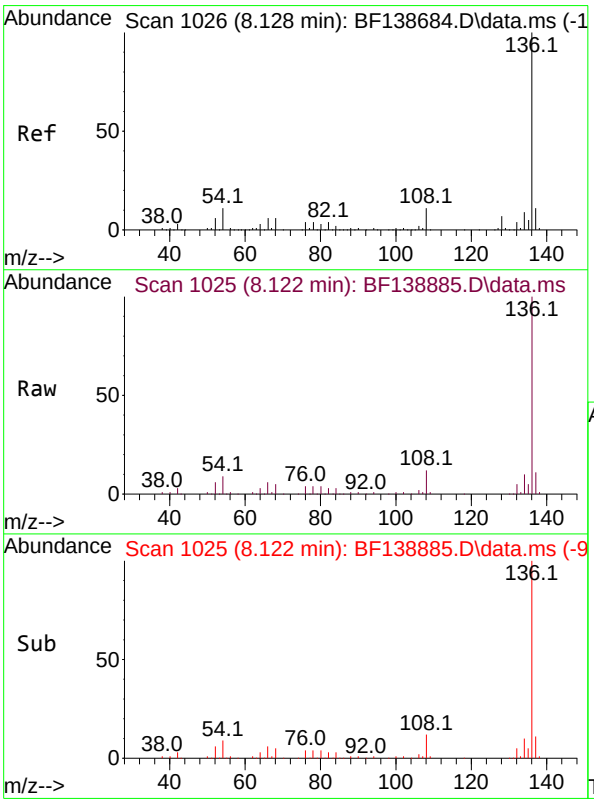

#7
Phenol-d6
Concen: 166.883 ng
RT: 6.487 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF138885.D
Acq: 09 Aug 2024 12:55

**Instrument :**
BNA_F
**ClientSampleId :**
PB162489BL

Tgt Ion: 99 Resp: 582434

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 23.9 | 17.4 | 26.0 |
| 71 | 38.7 | 28.1 | 42.1 |

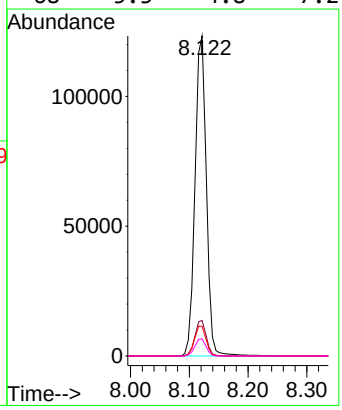


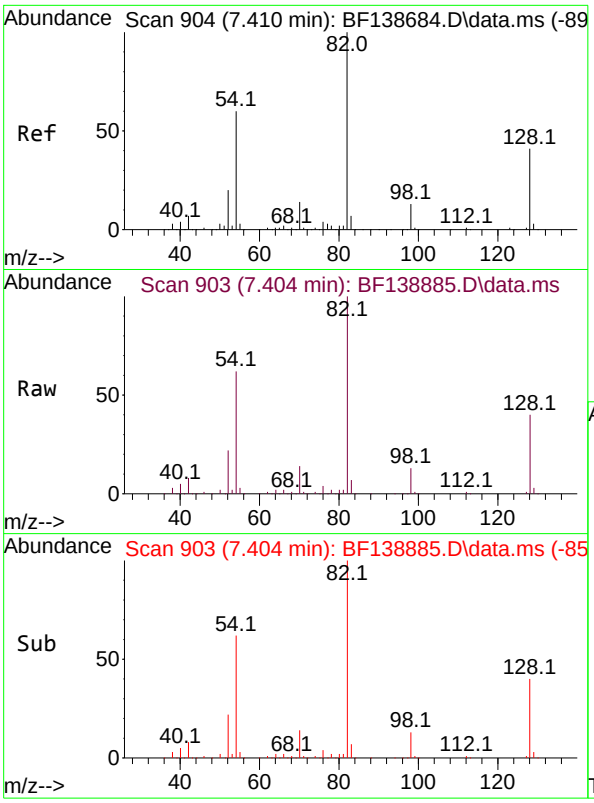




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.122 min Scan# 1025
Delta R.T. -0.006 min
Lab File: BF138885.D
Acq: 09 Aug 2024 12:55

Tgt Ion:136 Resp: 165520

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.1 | 8.9 | 13.3 |
| 54 | 9.3 | 8.6 | 12.8 |
| 68 | 5.3 | 4.8 | 7.2 |



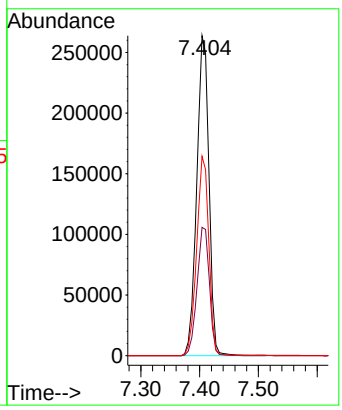


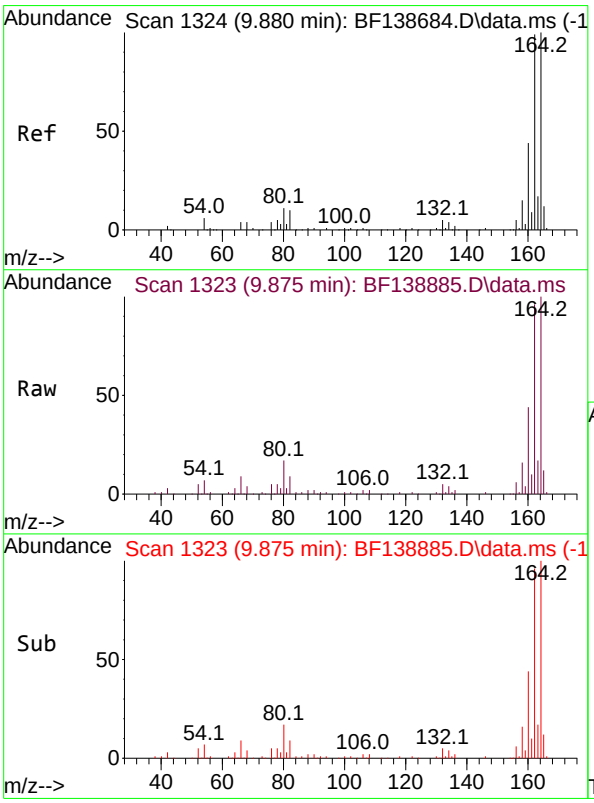

#23
Nitrobenzene-d5
Concen: 112.296 ng
RT: 7.404 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF138885.D
Acq: 09 Aug 2024 12:55

**Instrument :**
BNA_F
**ClientSampleId :**
PB162489BL

Tgt Ion: 82 Resp: 380174

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 40.1 | 32.8 | 49.2 |
| 54 | 62.3 | 48.3 | 72.5 |

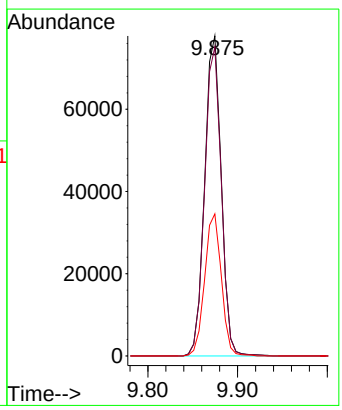


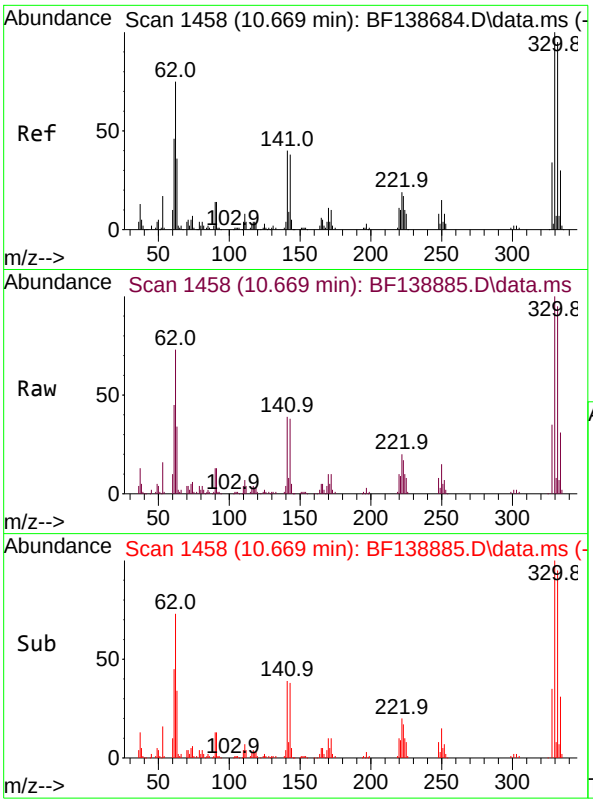




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.875 min Scan# 1323
Delta R.T. -0.005 min
Lab File: BF138885.D
Acq: 09 Aug 2024 12:55

Tgt Ion:164 Resp: 99849

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 96.5 | 79.4 | 119.0 |
| 160 | 44.4 | 35.1 | 52.7 |



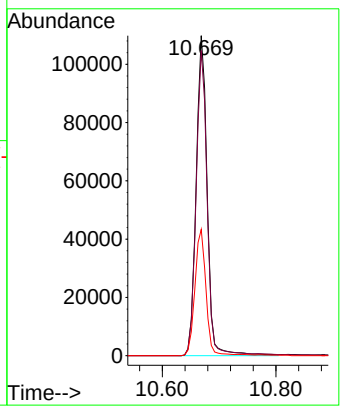


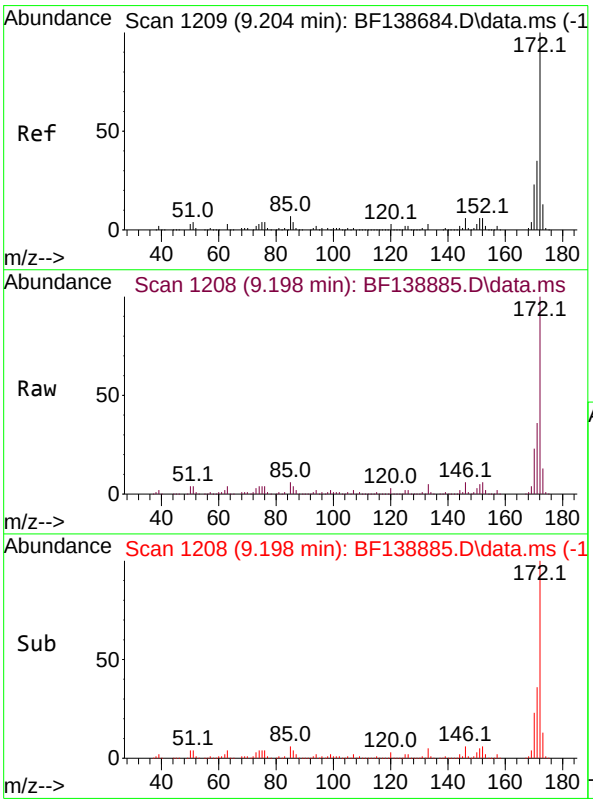

#42
2,4,6-Tribromophenol
Concen: 182.406 ng
RT: 10.669 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF138885.D
Acq: 09 Aug 2024 12:55

**Instrument :**
BNA_F
**ClientSampleId :**
PB162489BL

Tgt Ion:330 Resp: 149189

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 94.8 | 76.4 | 114.6 |
| 141 | 39.8 | 31.1 | 46.7 |

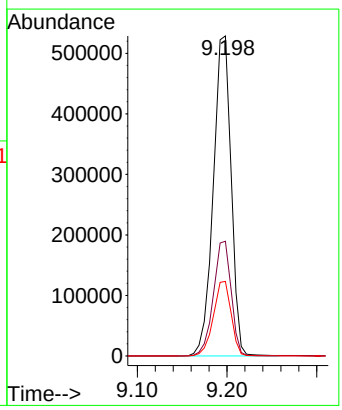


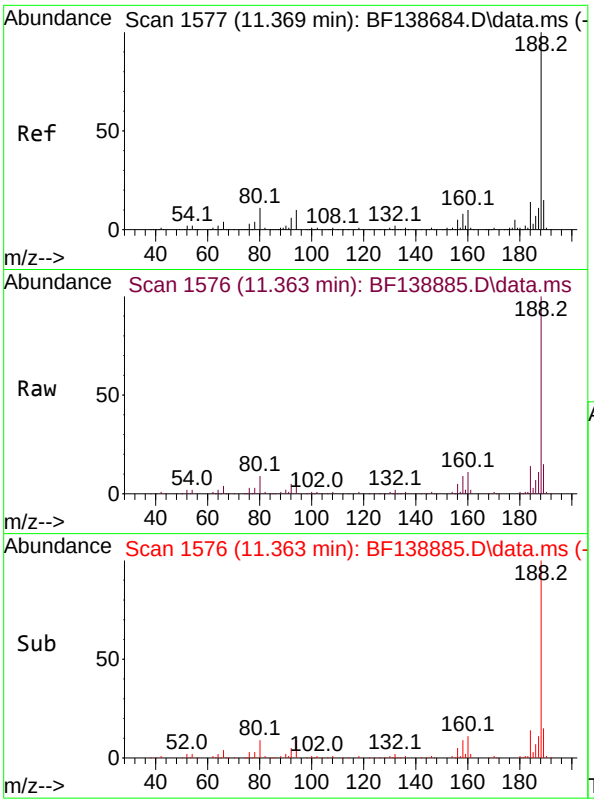




#45
2-Fluorobiphenyl
Concen: 110.160 ng
RT: 9.198 min Scan# 1208
Delta R.T. -0.006 min
Lab File: BF138885.D
Acq: 09 Aug 2024 12:55

Tgt Ion:172 Resp: 732073

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.8 | 28.3 | 42.5 |
| 170 | 23.3 | 18.8 | 28.2 |



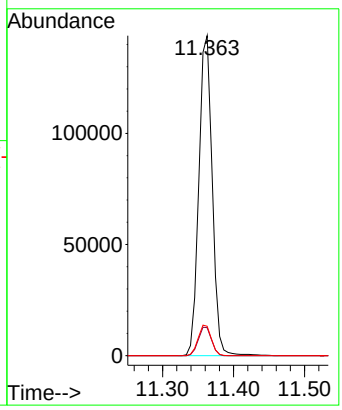


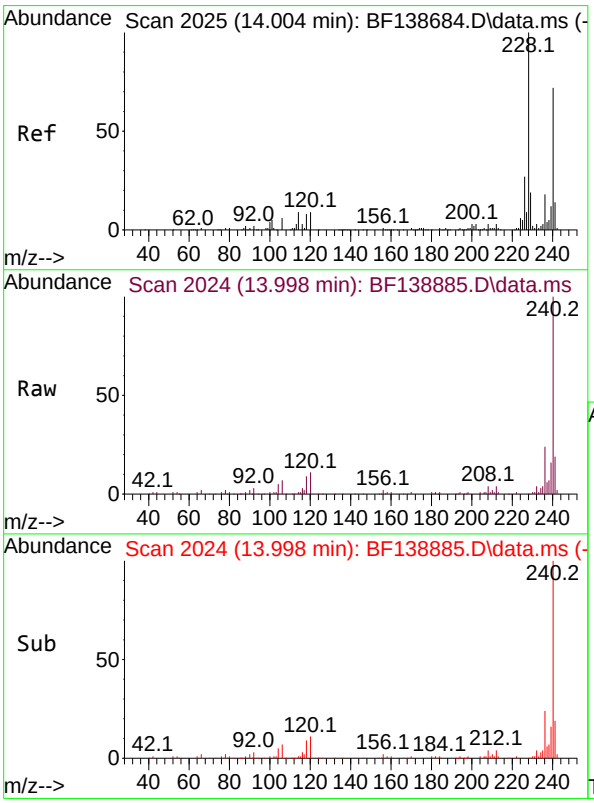

#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.363 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138885.D
Acq: 09 Aug 2024 12:55

**Instrument :**
BNA_F
**ClientSampleId :**
PB162489BL

Tgt Ion:188 Resp: 189104

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 8.8 | 7.6 | 11.4 |
| 80 | 9.2 | 8.6 | 12.8 |

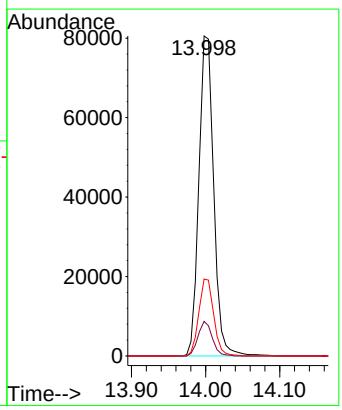


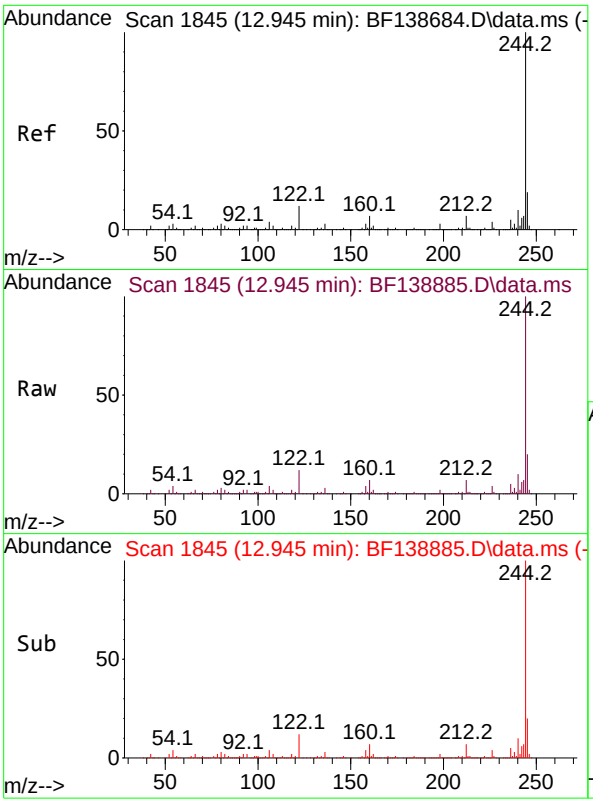




#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.998 min Scan# 2024
Delta R.T. -0.006 min
Lab File: BF138885.D
Acq: 09 Aug 2024 12:55

Tgt Ion:240 Resp: 112088

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 10.8 | 10.2 | 15.4 |
| 236 | 24.0 | 19.8 | 29.8 |



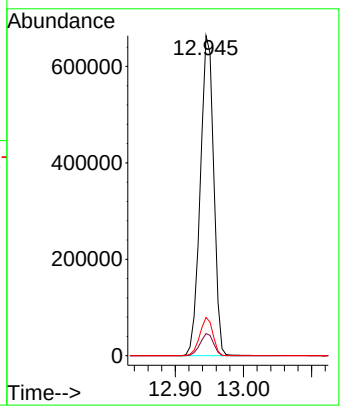


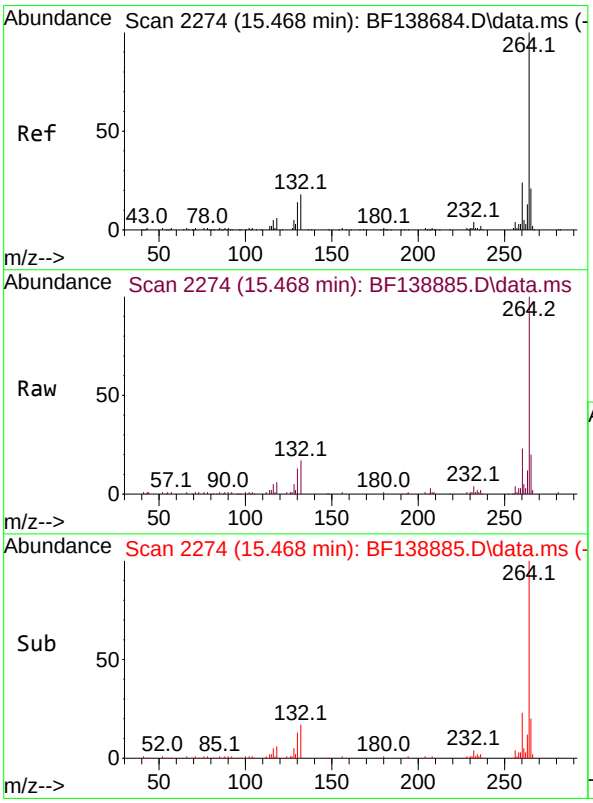

#79
Terphenyl-d14
Concen: 135.980 ng
RT: 12.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF138885.D
Acq: 09 Aug 2024 12:55

**Instrument :**
BNA_F
**ClientSampleId :**
PB162489BL

Tgt Ion:244 Resp: 910350

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 6.9 | 5.4 | 8.2 |
| 122 | 12.0 | 9.6 | 14.4 |

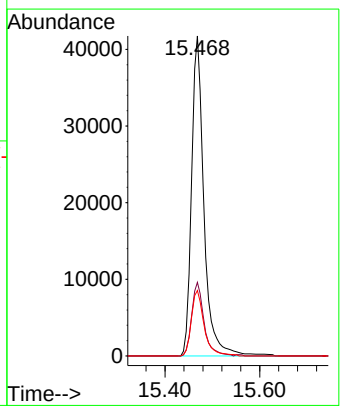



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.468 min Scan# 2274
Delta R.T. -0.000 min
Lab File: BF138885.D
Acq: 09 Aug 2024 12:55

Tgt Ion:264 Resp: 75976

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.0 | 19.0 | 28.6 |
| 265 | 20.5 | 17.0 | 25.6 |



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JACOBS Engineering Group, Inc. | Date Collected: | |
| Project: | Former Schlumberger Site Princeton NJ | Date Received: | |
| Client Sample ID: | PB162489BS | SDG No.: | P3457 |
| Lab Sample ID: | PB162489BS | Matrix: | Water |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOCMS Group6 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF138886.D | 1 | 08/05/24 08:25 | 08/09/24 13:25 | PB162489 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 110-86-1 | Pyridine | 32.5 | | 1.60 | 5.00 | ug/L |
| 100-52-7 | Benzaldehyde | 38.9 | | 4.00 | 10.0 | ug/L |
| 95-48-7 | 2-Methylphenol | 47.4 | | 1.10 | 5.00 | ug/L |
| 65794-96-9 | 3+4-Methylphenols | 49.8 | | 1.20 | 10.0 | ug/L |
| 67-72-1 | Hexachloroethane | 45.5 | | 1.00 | 5.00 | ug/L |
| 98-95-3 | Nitrobenzene | 43.6 | | 1.30 | 5.00 | ug/L |
| 91-20-3 | Naphthalene | 44.3 | | 1.00 | 5.00 | ug/L |
| 87-68-3 | Hexachlorobutadiene | 44.1 | | 1.30 | 5.00 | ug/L |
| 91-57-6 | 2-Methylnaphthalene | 46.5 | | 1.10 | 5.00 | ug/L |
| 88-06-2 | 2,4,6-Trichlorophenol | 45.6 | | 0.89 | 5.00 | ug/L |
| 95-95-4 | 2,4,5-Trichlorophenol | 44.2 | | 1.00 | 5.00 | ug/L |
| 208-96-8 | Acenaphthylene | 48.4 | | 1.00 | 5.00 | ug/L |
| 83-32-9 | Acenaphthene | 43.5 | | 0.81 | 5.00 | ug/L |
| 132-64-9 | Dibenzofuran | 46.4 | | 0.93 | 5.00 | ug/L |
| 121-14-2 | 2,4-Dinitrotoluene | 48.7 | | 1.50 | 5.00 | ug/L |
| 86-73-7 | Fluorene | 47.8 | | 0.96 | 5.00 | ug/L |
| 118-74-1 | Hexachlorobenzene | 46.4 | | 1.10 | 5.00 | ug/L |
| 87-86-5 | Pentachlorophenol | 75.1 | | 1.90 | 10.0 | ug/L |
| 85-01-8 | Phenanthrene | 47.8 | | 0.89 | 5.00 | ug/L |
| 120-12-7 | Anthracene | 49.0 | | 1.10 | 5.00 | ug/L |
| 86-74-8 | Carbazole | 46.7 | | 1.20 | 5.00 | ug/L |
| 84-74-2 | Di-n-butylphthalate | 55.8 | | 1.50 | 5.00 | ug/L |
| 206-44-0 | Fluoranthene | 48.8 | | 1.30 | 5.00 | ug/L |
| 129-00-0 | Pyrene | 50.1 | | 1.10 | 5.00 | ug/L |
| 56-55-3 | Benzo(a)anthracene | 46.9 | | 0.94 | 5.00 | ug/L |
| 218-01-9 | Chrysene | 48.2 | | 0.86 | 5.00 | ug/L |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 46.5 | | 1.90 | 5.00 | ug/L |
| 205-99-2 | Benzo(b)fluoranthene | 48.7 | | 1.10 | 5.00 | ug/L |
| 207-08-9 | Benzo(k)fluoranthene | 57.5 | | 1.20 | 5.00 | ug/L |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JACOBS Engineering Group, Inc. | Date Collected: | |
| Project: | Former Schlumberger Site Princeton NJ | Date Received: | |
| Client Sample ID: | PB162489BS | SDG No.: | P3457 |
| Lab Sample ID: | PB162489BS | Matrix: | Water |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOCMS Group6 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF138886.D | 1 | 08/05/24 08:25 | 08/09/24 13:25 | PB162489 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 50-32-8 | Benzo(a)pyrene | 53.0 | | 1.70 | 5.00 | ug/L |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 47.2 | | 1.00 | 5.00 | ug/L |
| 53-70-3 | Dibenzo(a,h)anthracene | 46.7 | | 1.20 | 5.00 | ug/L |
| 191-24-2 | Benzo(g,h,i)perylene | 41.2 | | 1.20 | 5.00 | ug/L |
| 123-91-1 | 1,4-Dioxane | 30.1 | | 1.30 | 5.00 | ug/L |
| 90-12-0 | 1-Methylnaphthalene | 43.6 | | 0.86 | 5.00 | ug/L |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 130 | | 15 (10) - 110 (139) | 87% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 129 | | 15 (10) - 110 (134) | 86% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 85.0 | | 30 (49) - 130 (133) | 85% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 86.9 | | 30 (52) - 130 (132) | 87% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 139 | | 15 (32) - 110 (145) | 92% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 116 | | 30 (36) - 130 (145) | 116% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 55900 | 6.84 | | | |
| 1146-65-2 | Naphthalene-d8 | 237000 | 8.122 | | | |
| 15067-26-2 | Acenaphthene-d10 | 136000 | 9.881 | | | |
| 1517-22-2 | Phenanthrene-d10 | 232000 | 11.363 | | | |
| 1719-03-5 | Chrysene-d12 | 114000 | 14.004 | | | |
| 1520-96-3 | Perylene-d12 | 96900 | 15.463 | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080924\
Data File : BF138886.D
Acq On : 09 Aug 2024 13:25
Operator : RC/JU
Sample : PB162489BS
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 09 13:56:06 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
PB162489BS

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.840 | 152 | 55937 | 20.000 | ng | | 0.00 |
| 21) Naphthalene-d8 | 8.122 | 136 | 237308 | 20.000 | ng | | 0.00 |
| 39) Acenaphthene-d10 | 9.881 | 164 | 135700 | 20.000 | ng | | 0.00 |
| 64) Phenanthrene-d10 | 11.363 | 188 | 232367 | 20.000 | ng | | 0.00 |
| 76) Chrysene-d12 | 14.004 | 240 | 113862 | 20.000 | ng | | 0.00 |
| 86) Perylene-d12 | 15.463 | 264 | 96864 | 20.000 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 5) 2-Fluorophenol | 5.487 | 112 | 471812 | 130.202 | ng | | 0.02 |
| 7) Phenol-d6 | 6.493 | 99 | 628804 | 129.246 | ng | | 0.00 |
| 23) Nitrobenzene-d5 | 7.410 | 82 | 412816 | 85.050 | ng | | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.675 | 330 | 154182 | 138.707 | ng | | 0.00 |
| 45) 2-Fluorobiphenyl | 9.198 | 172 | 784869 | 86.902 | ng | | 0.00 |
| 79) Terphenyl-d14 | 12.945 | 244 | 791548 | 116.392 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.716 | 88 | 47828 | 30.148 | ng | | 97 |
| 3) Pyridine | 3.463 | 79 | 124988 | 32.523 | ng | | 96 |
| 4) n-Nitrosodimethylamine | 3.434 | 42 | 116301 | 50.811 | ng | | 84 |
| 6) Aniline | 6.510 | 93 | 143736 | 33.128 | ng | # | 16 |
| 8) 2-Chlorophenol | 6.634 | 128 | 185399 | 48.629 | ng | | 98 |
| 9) Benzaldehyde | 6.398 | 77 | 113590 | 38.948 | ng | | 99 |
| 10) Phenol | 6.510 | 94 | 243290 | 47.495 | ng | | 86 |
| 11) bis(2-Chloroethyl)ether | 6.581 | 93 | 174011 | 44.144 | ng | | 100 |
| 12) 1,3-Dichlorobenzene | 6.781 | 146 | 185110 | 43.375 | ng | | 98 |
| 13) 1,4-Dichlorobenzene | 6.857 | 146 | 192246 | 44.637 | ng | | 99 |
| 14) 1,2-Dichlorobenzene | 7.010 | 146 | 185605 | 46.113 | ng | | 99 |
| 15) Benzyl Alcohol | 6.993 | 79 | 178912 | 51.022 | ng | | 98 |
| 16) 2,2'-oxybis(1-Chloropr... | 7.110 | 45 | 295135 | 43.506 | ng | # | 47 |
| 17) 2-Methylphenol | 7.110 | 107 | 149237 | 47.404 | ng | # | 86 |
| 18) Hexachloroethane | 7.345 | 117 | 73829 | 45.540 | ng | | 97 |
| 19) n-Nitroso-di-n-propyla... | 7.263 | 70 | 144362 | 49.128 | ng | | 98 |
| 20) 3+4-Methylphenols | 7.263 | 107 | 201207 | 49.813 | ng | # | 79 |
| 22) Acetophenone | 7.257 | 105 | 256780 | 44.193 | ng | | 98 |
| 24) Nitrobenzene | 7.434 | 77 | 215325 | 43.596 | ng | | 99 |
| 25) Isophorone | 7.669 | 82 | 383539 | 46.276 | ng | | 98 |
| 26) 2-Nitrophenol | 7.745 | 139 | 98435 | 46.324 | ng | | 95 |
| 27) 2,4-Dimethylphenol | 7.787 | 122 | 127315 | 50.076 | ng | | 98 |
| 28) bis(2-Chloroethoxy)met... | 7.875 | 93 | 223265 | 44.236 | ng | | 99 |
| 29) 2,4-Dichlorophenol | 7.992 | 162 | 159462 | 48.810 | ng | | 99 |
| 30) 1,2,4-Trichlorobenzene | 8.063 | 180 | 168771 | 44.765 | ng | | 99 |
| 31) Naphthalene | 8.145 | 128 | 553254 | 44.292 | ng | | 100 |
| 32) Benzoic acid | 7.945 | 122 | 72059 | 36.056 | ng | | 97 |
| 33) 4-Chloroaniline | 8.198 | 127 | 88100 | 21.011 | ng | | 98 |
| 34) Hexachlorobutadiene | 8.257 | 225 | 100753 | 44.120 | ng | | 100 |
| 35) Caprolactam | 8.592 | 113 | 40480m | 41.525 | ng | | |
| 36) 4-Chloro-3-methylphenol | 8.698 | 107 | 181168 | 48.523 | ng | | 99 |
| 37) 2-Methylnaphthalene | 8.834 | 142 | 367005 | 46.522 | ng | | 99 |
| 38) 1-Methylnaphthalene | 8.934 | 142 | 337008 | 43.596 | ng | | 97 |
| 40) 1,2,4,5-Tetrachloroben... | 9.004 | 216 | 158491 | 42.045 | ng | | 99 |
| 41) Hexachlorocyclopentadiene | 8.981 | 237 | 106892 | 104.770 | ng | | 99 |
| 43) 2,4,6-Trichlorophenol | 9.122 | 196 | 104792 | 45.594 | ng | | 100 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080924\
Data File : BF138886.D
Acq On : 09 Aug 2024 13:25
Operator : RC/JU
Sample : PB162489BS
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 09 13:56:06 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
PB162489BS

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 9.175 | 196 | 111079 | 44.209 | ng | | 99 |
| 46) 1,1'-Biphenyl | 9.298 | 154 | 439384 | 41.343 | ng | | 100 |
| 47) 2-Chloronaphthalene | 9.328 | 162 | 348295 | 44.064 | ng | | 99 |
| 48) 2-Nitroaniline | 9.434 | 65 | 124915 | 46.616 | ng | | 99 |
| 49) Acenaphthylene | 9.739 | 152 | 542094 | 48.356 | ng | | 99 |
| 50) Dimethylphthalate | 9.604 | 163 | 420510 | 48.463 | ng | | 99 |
| 51) 2,6-Dinitrotoluene | 9.675 | 165 | 89961 | 45.941 | ng | | 93 |
| 52) Acenaphthene | 9.916 | 154 | 327605 | 43.472 | ng | | 99 |
| 53) 3-Nitroaniline | 9.845 | 138 | 60421 | 29.847 | ng | | 96 |
| 54) 2,4-Dinitrophenol | 9.963 | 184 | 82333 | 91.337 | ng | | 86 |
| 55) Dibenzofuran | 10.086 | 168 | 493467 | 46.388 | ng | | 99 |
| 56) 4-Nitrophenol | 10.028 | 139 | 94576 | 77.691 | ng | | 90 |
| 57) 2,4-Dinitrotoluene | 10.081 | 165 | 121596 | 48.671 | ng | # | 80 |
| 58) Fluorene | 10.428 | 166 | 404622 | 47.764 | ng | | 100 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.210 | 232 | 98092 | 51.065 | ng | | 98 |
| 60) Diethylphthalate | 10.304 | 149 | 418528 | 50.872 | ng | | 100 |
| 61) 4-Chlorophenyl-phenyle... | 10.416 | 204 | 197585 | 47.424 | ng | | 96 |
| 62) 4-Nitroaniline | 10.469 | 138 | 82366 | 42.815 | ng | | 90 |
| 63) Azobenzene | 10.581 | 77 | 433986 | 47.562 | ng | | 96 |
| 65) 4,6-Dinitro-2-methylph... | 10.498 | 198 | 68786 | 48.522 | ng | | 97 |
| 66) n-Nitrosodiphenylamine | 10.539 | 169 | 341567 | 47.026 | ng | | 99 |
| 67) 4-Bromophenyl-phenylether | 10.904 | 248 | 118122 | 46.952 | ng | | 99 |
| 68) Hexachlorobenzene | 10.975 | 284 | 120407 | 46.353 | ng | | 99 |
| 69) Atrazine | 11.069 | 200 | 102669 | 54.788 | ng | | 98 |
| 70) Pentachlorophenol | 11.181 | 266 | 87959 | 75.124 | ng | | 95 |
| 71) Phenanthrene | 11.392 | 178 | 572137 | 47.817 | ng | | 100 |
| 72) Anthracene | 11.445 | 178 | 577450 | 48.989 | ng | | 100 |
| 73) Carbazole | 11.598 | 167 | 475209 | 46.729 | ng | | 99 |
| 74) Di-n-butylphthalate | 11.922 | 149 | 637976 | 55.806 | ng | | 100 |
| 75) Fluoranthene | 12.575 | 202 | 545597 | 48.844 | ng | | 99 |
| 77) Benzidine | 12.698 | 184 | 35679 | 13.101 | ng | | 97 |
| 78) Pyrene | 12.810 | 202 | 537177 | 50.108 | ng | | 100 |
| 80) Butylbenzylphthalate | 13.416 | 149 | 194726 | 56.722 | ng | | 97 |
| 81) Benzo(a)anthracene | 13.992 | 228 | 367975 | 46.931 | ng | | 99 |
| 82) 3,3'-Dichlorobenzidine | 13.951 | 252 | 67353 | 33.568 | ng | | 99 |
| 83) Chrysene | 14.033 | 228 | 341211 | 48.235 | ng | | 100 |
| 84) Bis(2-ethylhexyl)phtha... | 13.969 | 149 | 233665 | 46.482 | ng | | 99 |
| 85) Di-n-octyl phthalate | 14.580 | 149 | 361869 | 38.907 | ng | | 99 |
| 87) Indeno(1,2,3-cd)pyrene | 16.945 | 276 | 327506 | 47.180 | ng | | 96 |
| 88) Benzo(b)fluoranthene | 15.039 | 252 | 292630 | 48.734 | ng | | 98 |
| 89) Benzo(k)fluoranthene | 15.069 | 252 | 298698 | 57.454 | ng | | 98 |
| 90) Benzo(a)pyrene | 15.404 | 252 | 267903 | 53.042 | ng | | 98 |
| 91) Dibenzo(a,h)anthracene | 16.951 | 278 | 266048 | 46.690 | ng | | 98 |
| 92) Benzo(g,h,i)perylene | 17.386 | 276 | 243369 | 41.158 | ng | | 95 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

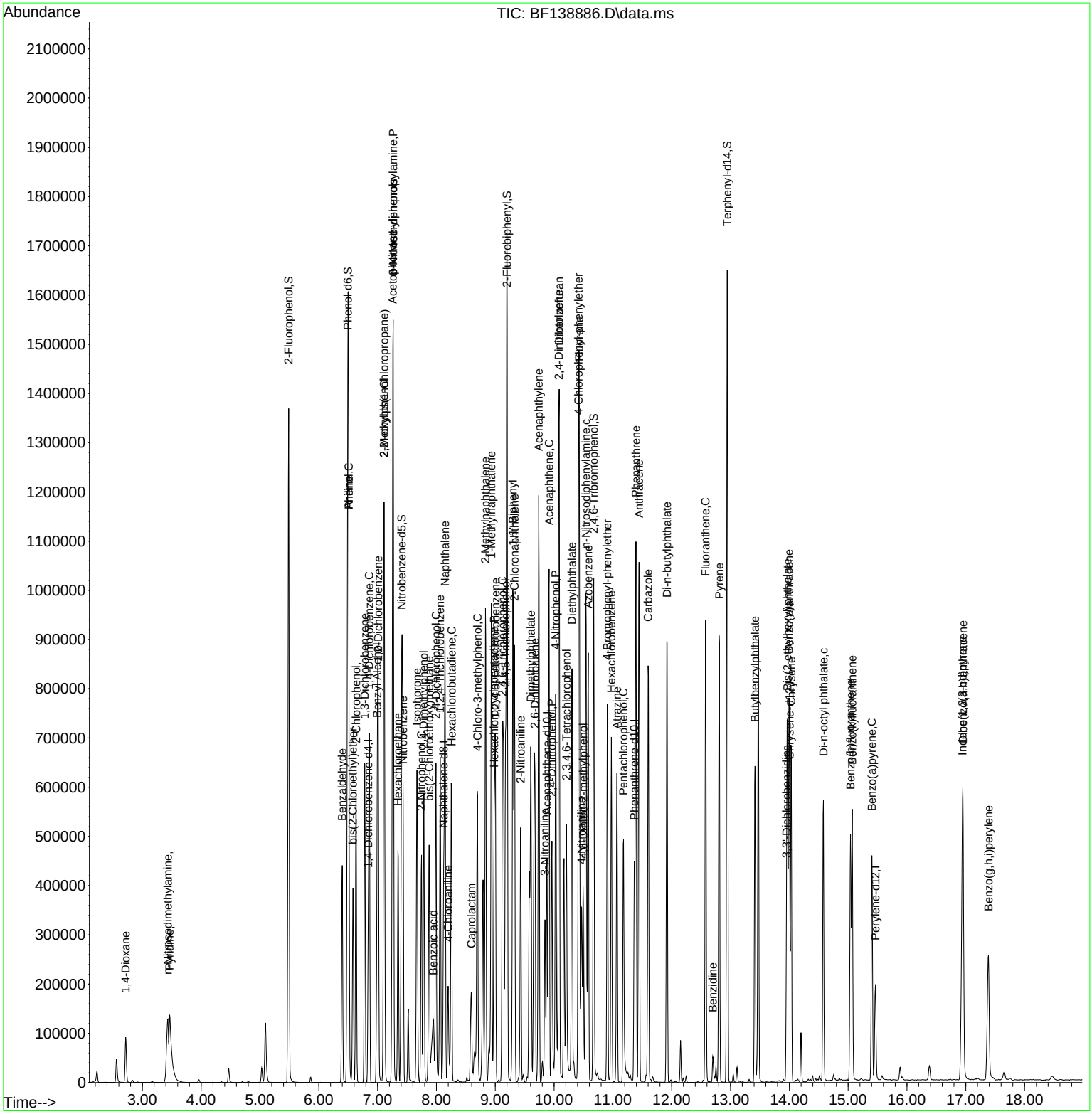
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080924\
Data File : BF138886.D
Acq On : 09 Aug 2024 13:25
Operator : RC/JU
Sample : PB162489BS
Misc :
ALS Vial : 9 Sample Multiplier: 1

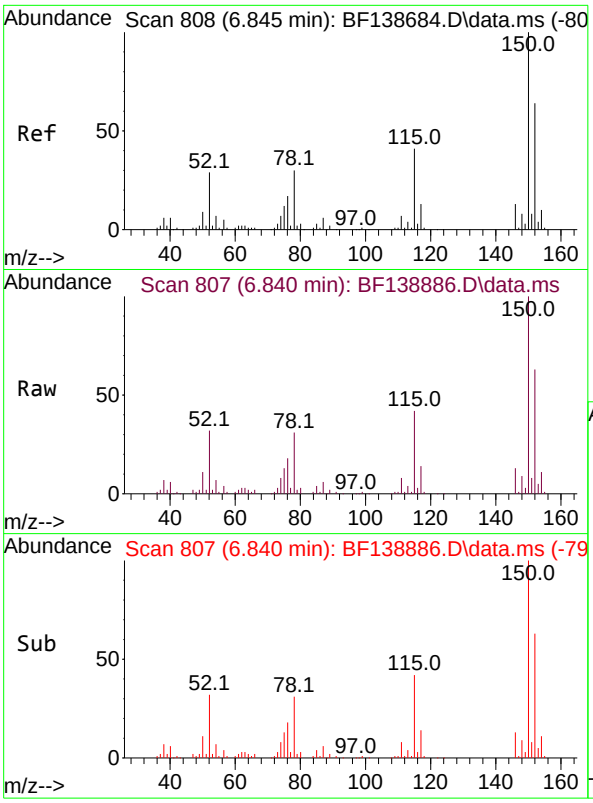
Quant Time: Aug 09 13:56:06 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
PB162489BS

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

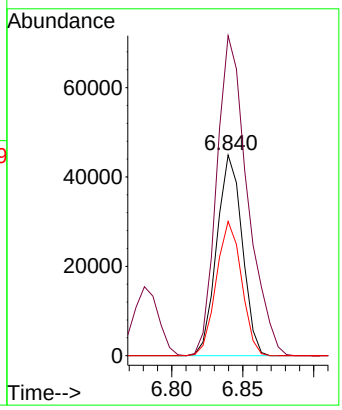





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.840 min Scan# 8
Delta R.T. -0.005 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:152 Resp: 5593

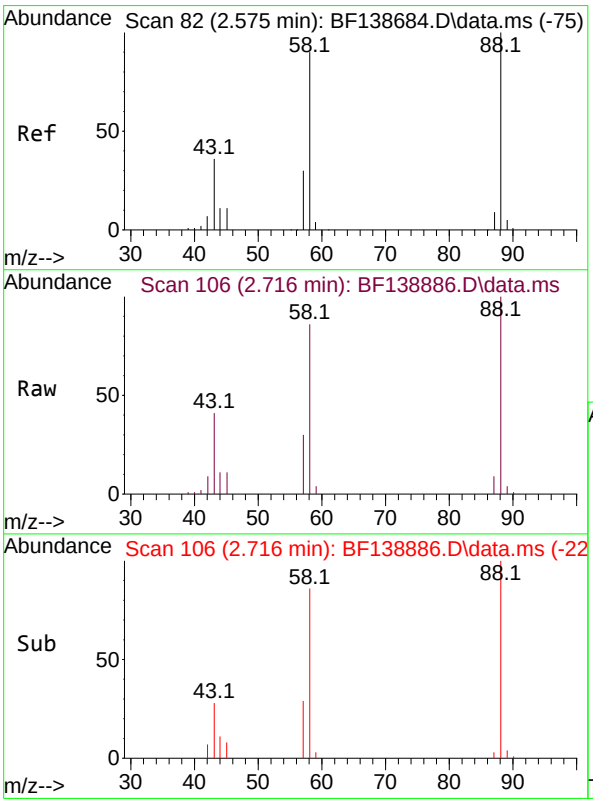
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 159.5 | 126.0 | 189.0 |
| 115 | 66.9 | 51.7 | 77.5 |




**Instrument :**
BNA_F
**ClientSampleId :**
PB162489BS

**Manual Integrations**
**APPROVED**

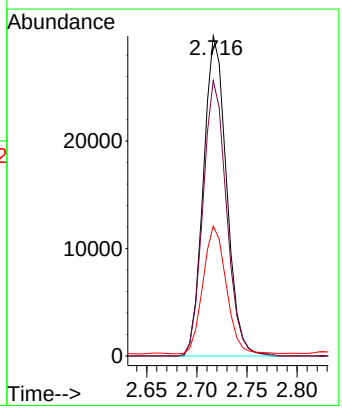
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

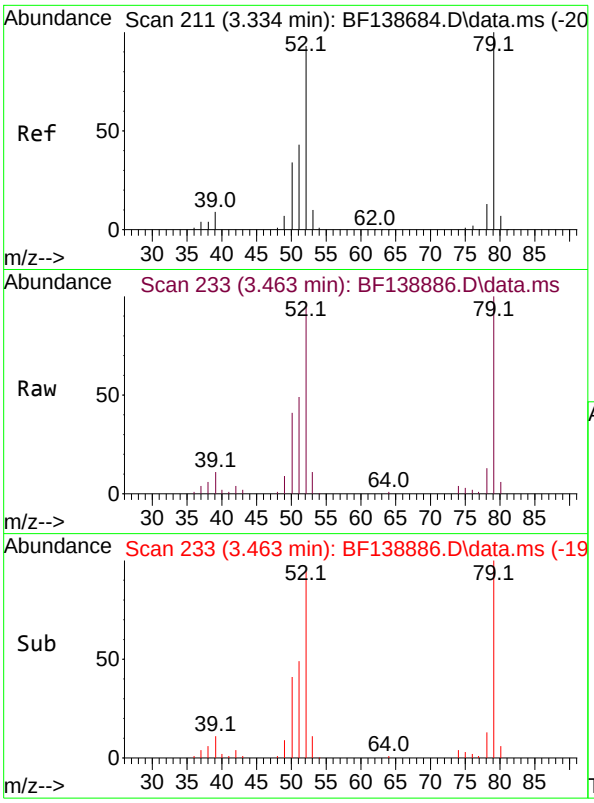



#2
1,4-Dioxane
Concen: 30.148 ng
RT: 2.716 min Scan# 106
Delta R.T. 0.141 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion: 88 Resp: 47828

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 87.6 | 71.6 | 107.4 |
| 43 | 40.0 | 28.7 | 43.1 |

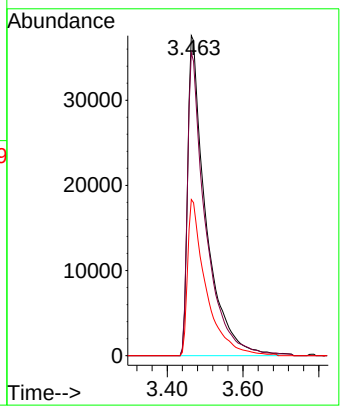





#3
Pyridine
Concen: 32.523 ng
RT: 3.463 min Scan# 2
Delta R.T. 0.130 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion: 79 Resp: 12498

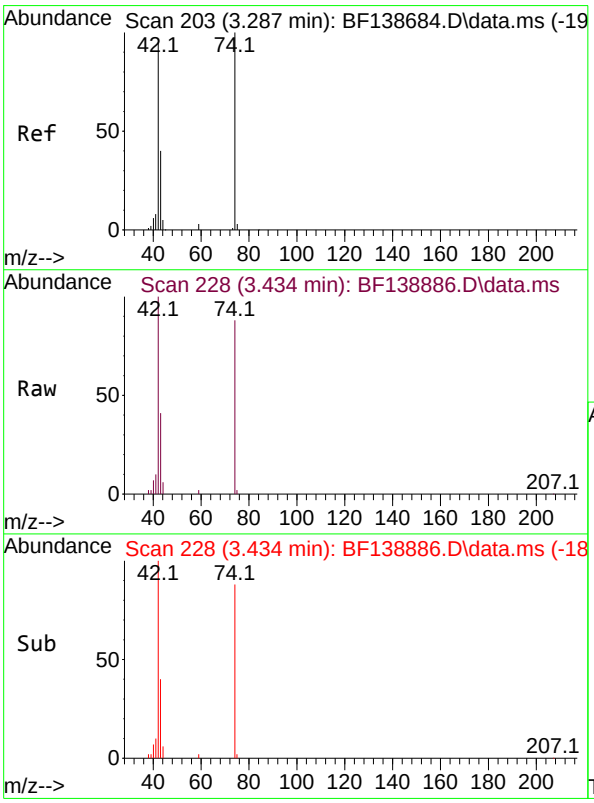
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 94.7 | 74.7 | 112.1 |
| 51 | 48.8 | 34.6 | 51.8 |




**Instrument :**
BNA_F
**ClientSampleId :**
PB162489BS

**Manual Integrations**
**APPROVED**

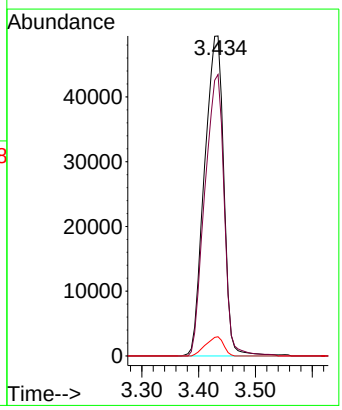
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

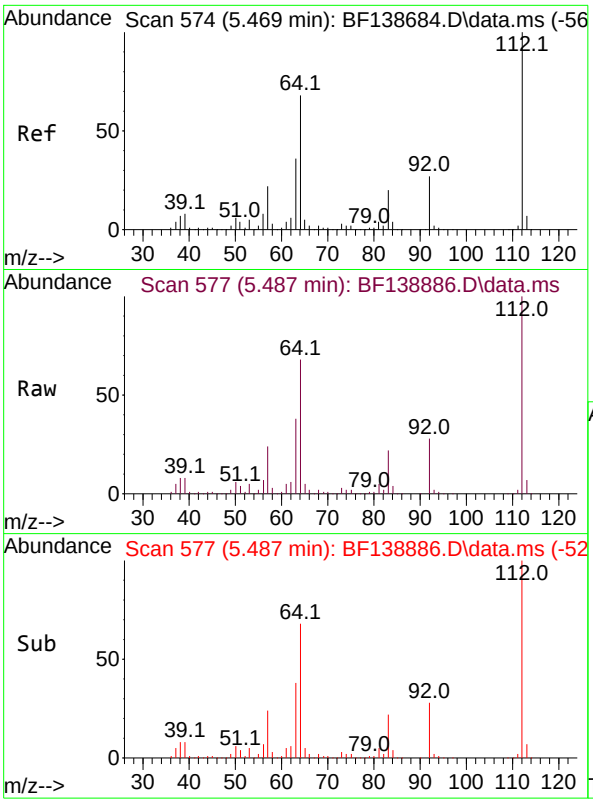



#4
n-Nitrosodimethylamine
Concen: 50.811 ng
RT: 3.434 min Scan# 228
Delta R.T. 0.147 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion: 42 Resp: 116301

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 87.9 | 84.2 | 126.4 |
| 44 | 6.0 | 4.9 | 7.3 |

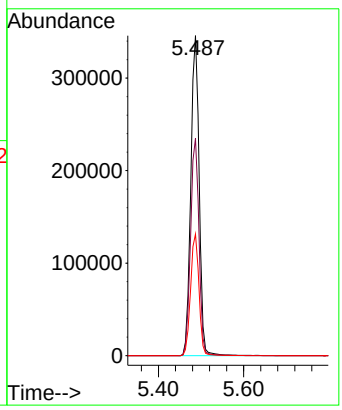





#5
2-Fluorophenol
Concen: 130.202 ng
RT: 5.487 min Scan# 5
Delta R.T. 0.018 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:112 Resp: 47181

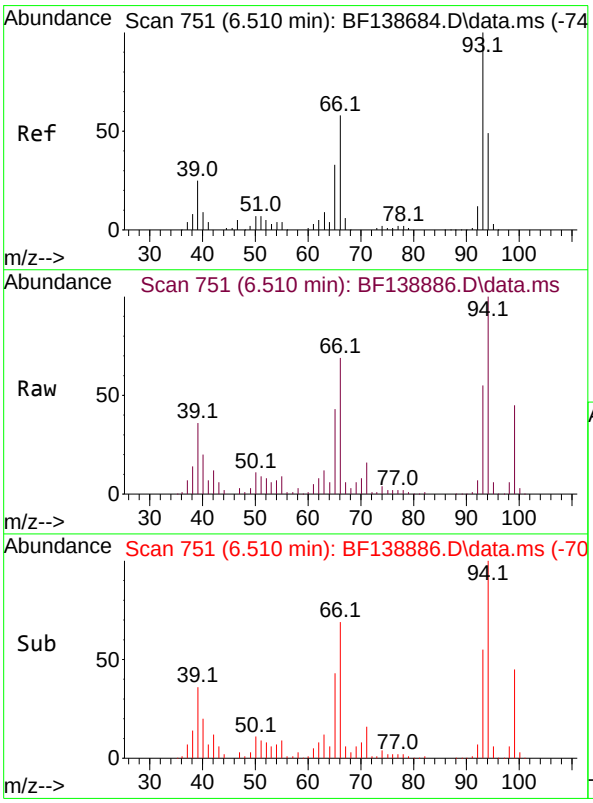
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 67.9 | 54.2 | 81.4 |
| 63 | 38.0 | 28.7 | 43.1 |




**Instrument :**
BNA_F
**ClientSampleId :**
PB162489BS

**Manual Integrations**
**APPROVED**

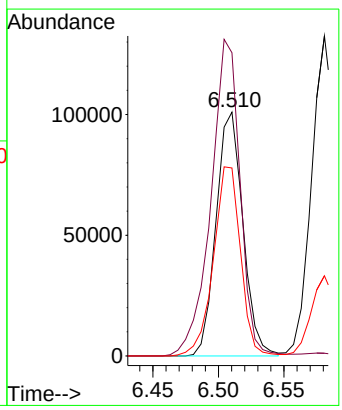
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

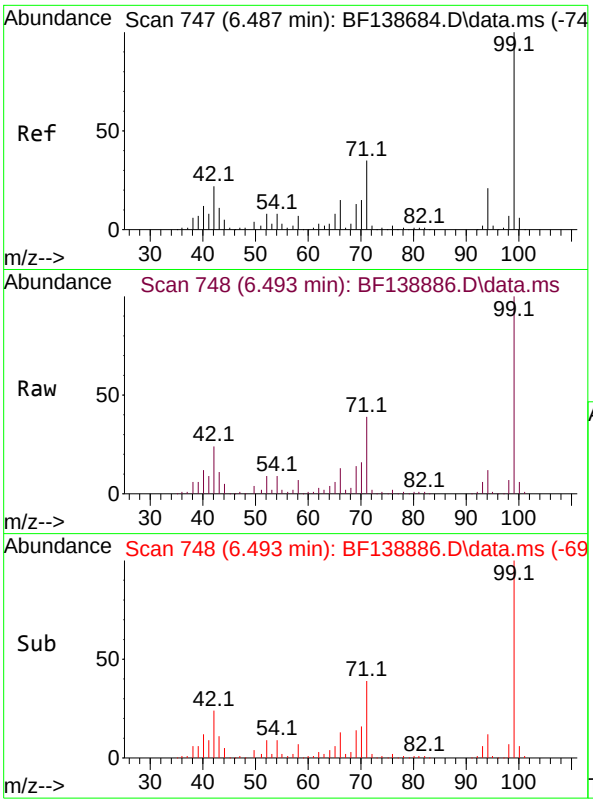



#6
Aniline
Concen: 33.128 ng
RT: 6.510 min Scan# 751
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion: 93 Resp: 143736

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 66 | 124.3 | 46.9 | 70.3# |
| 65 | 77.1 | 26.5 | 39.7# |

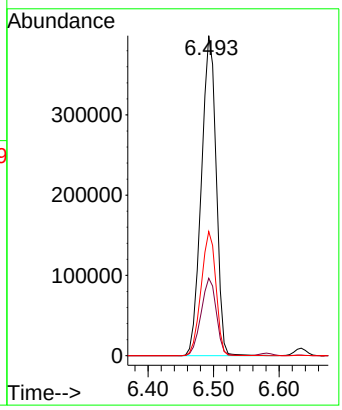





#7
Phenol-d6
Concen: 129.246 ng
RT: 6.493 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion: 99 Resp: 62880

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 24.2 | 17.4 | 26.0 |
| 71 | 38.8 | 28.1 | 42.1 |




**Instrument :**
BNA_F
**ClientSampleId :**
PB162489BS

**Manual Integrations**
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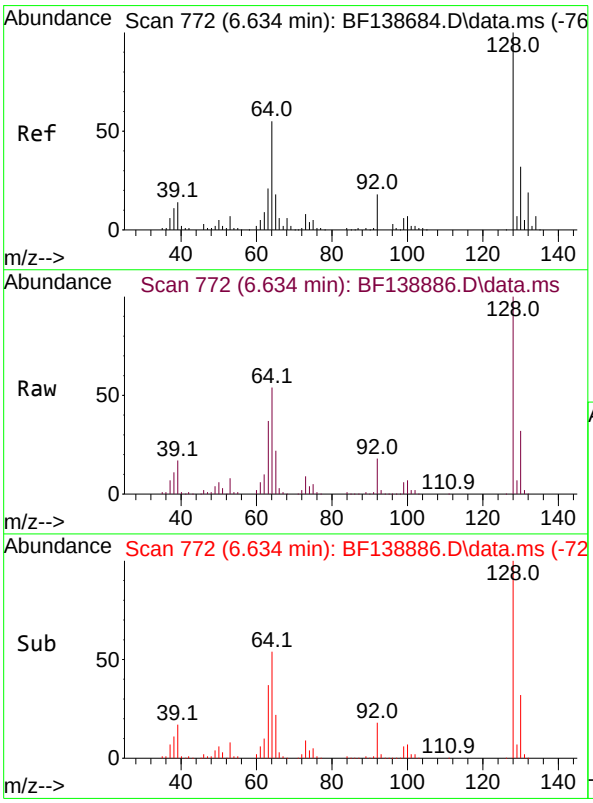
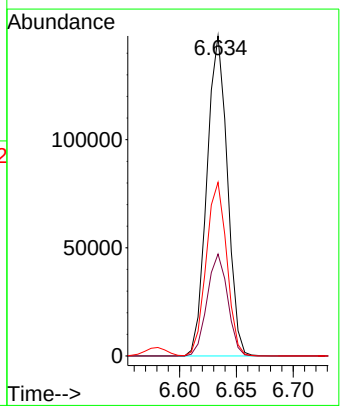
Supervised By :mohammad ahmed 08/12/2024

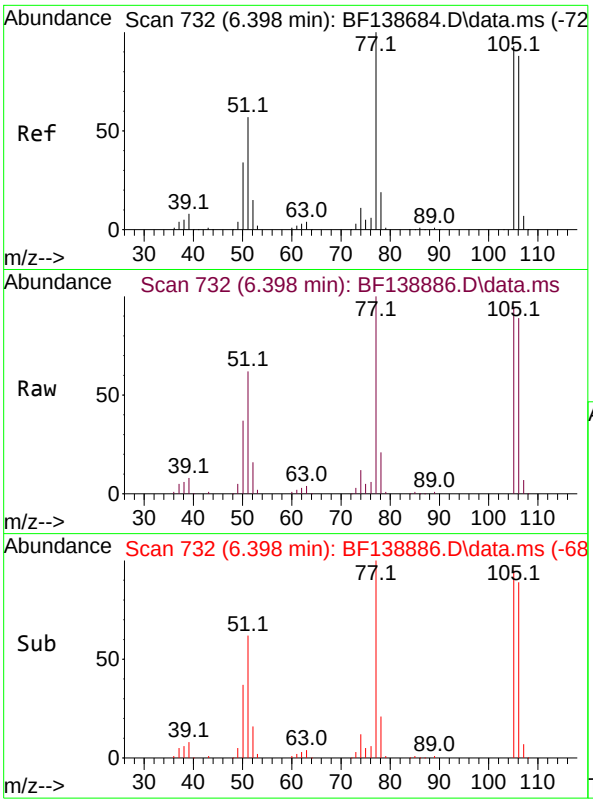



#8
2-Chlorophenol
Concen: 48.629 ng
RT: 6.634 min Scan# 772
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:128 Resp: 185399

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 130 | 31.9 | 12.0 | 52.0 |
| 64 | 54.3 | 36.3 | 76.3 |






#9
Benzaldehyde
Concen: 38.948 ng
RT: 6.398 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion: 77 Resp: 11359

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 105 | 94.7 | 72.9 | 112.9 |
| 106 | 89.2 | 68.4 | 108.4 |

**Instrument :**
BNA_F
**ClientSampleId :**
PB162489BS

**Manual Integrations**
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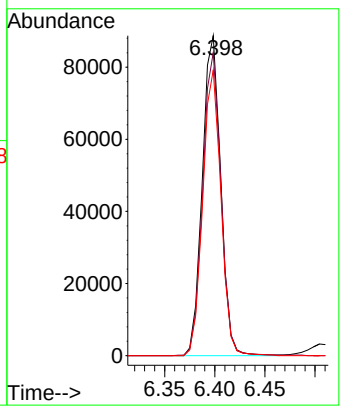
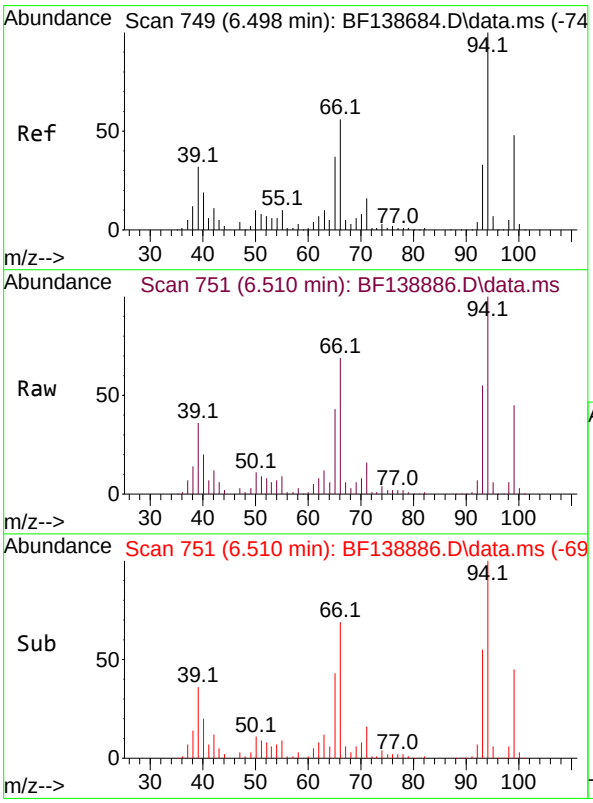
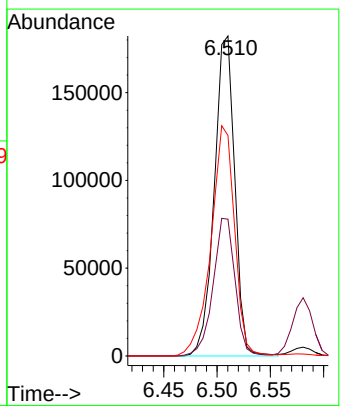


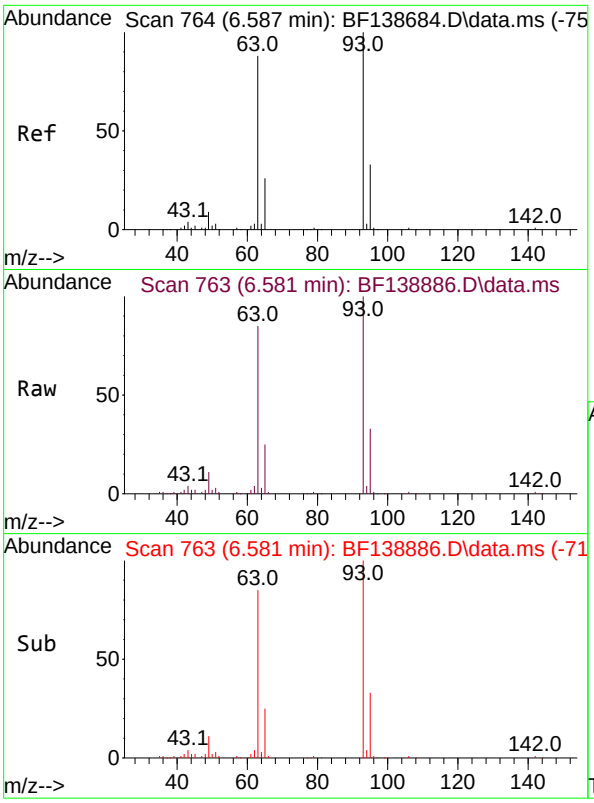




#10
Phenol
Concen: 47.495 ng
RT: 6.510 min Scan# 751
Delta R.T. 0.012 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion: 94 Resp: 243290

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 42.7 | 16.9 | 56.9 |
| 66 | 68.9 | 36.5 | 76.5 |

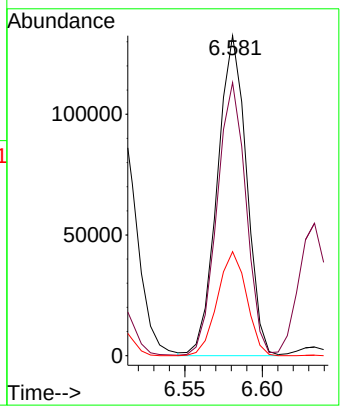





#11
bis(2-Chloroethyl)ether
Concen: 44.144 ng
RT: 6.581 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion: 93 Resp: 17401

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 85.4 | 65.3 | 105.3 |
| 95 | 32.5 | 12.4 | 52.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
PB162489BS

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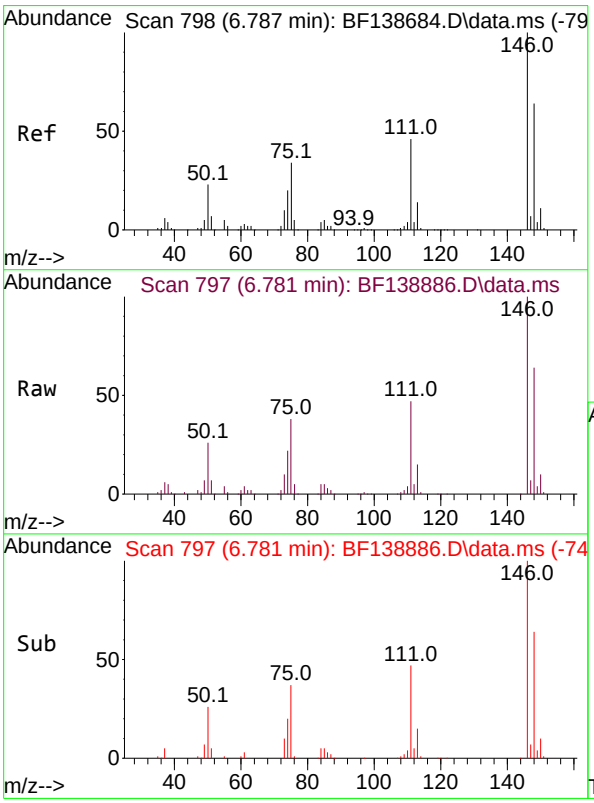
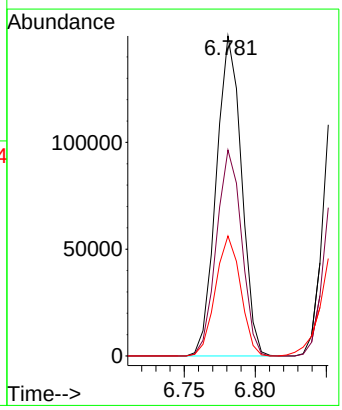
Supervised By :mohammad ahmed 08/12/2024

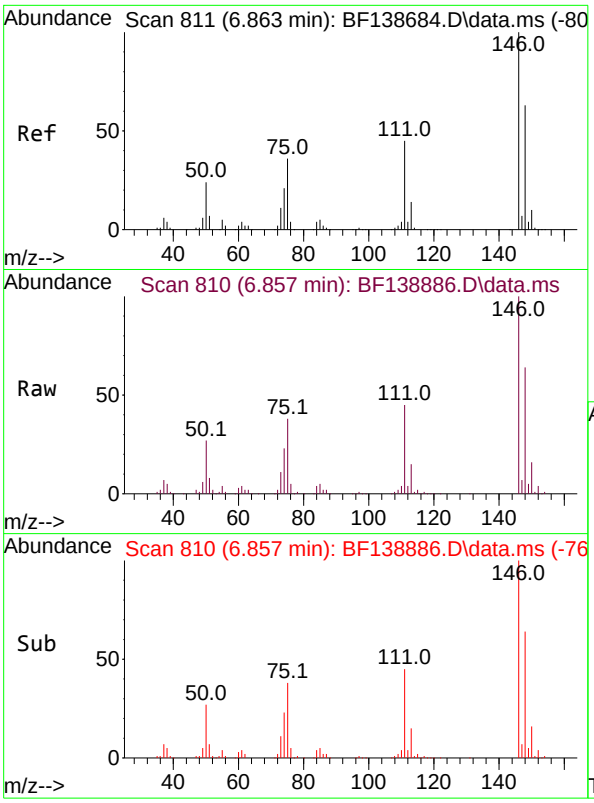



#12
1,3-Dichlorobenzene
Concen: 43.375 ng
RT: 6.781 min Scan# 797
Delta R.T. -0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:146 Resp: 185110

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 64.4 | 51.2 | 76.8 |
| 75 | 37.5 | 27.4 | 41.2 |

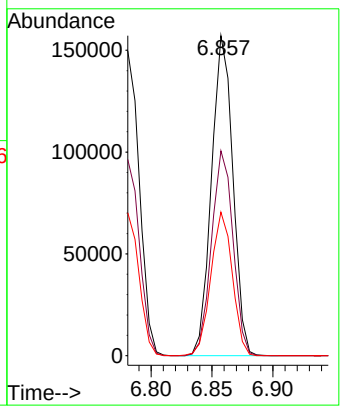





#13
1,4-Dichlorobenzene
Concen: 44.637 ng
RT: 6.857 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:146 Resp: 19224

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 64.0 | 50.2 | 75.2 |
| 111 | 44.8 | 35.9 | 53.9 |




**Instrument :**
BNA_F
**ClientSampleId :**
PB162489BS

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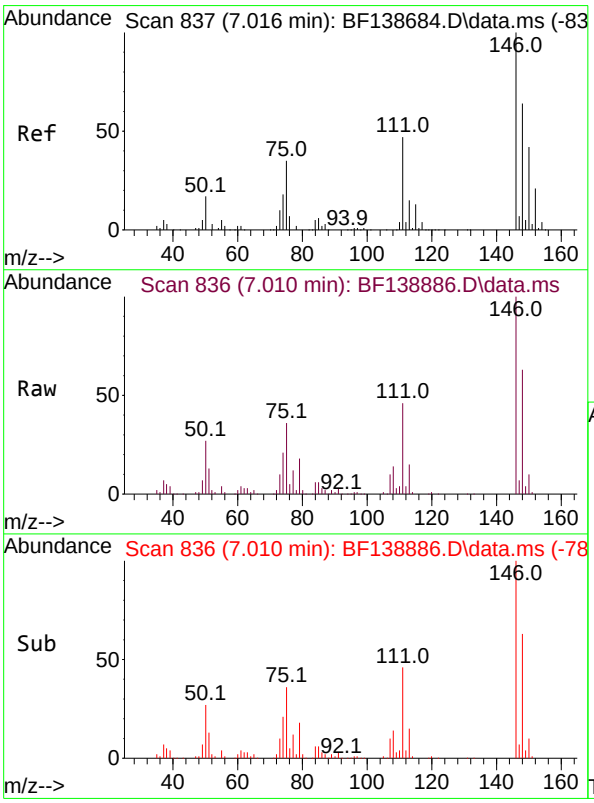
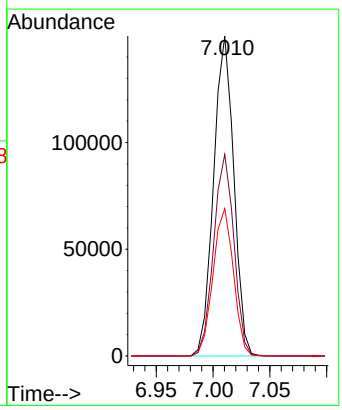
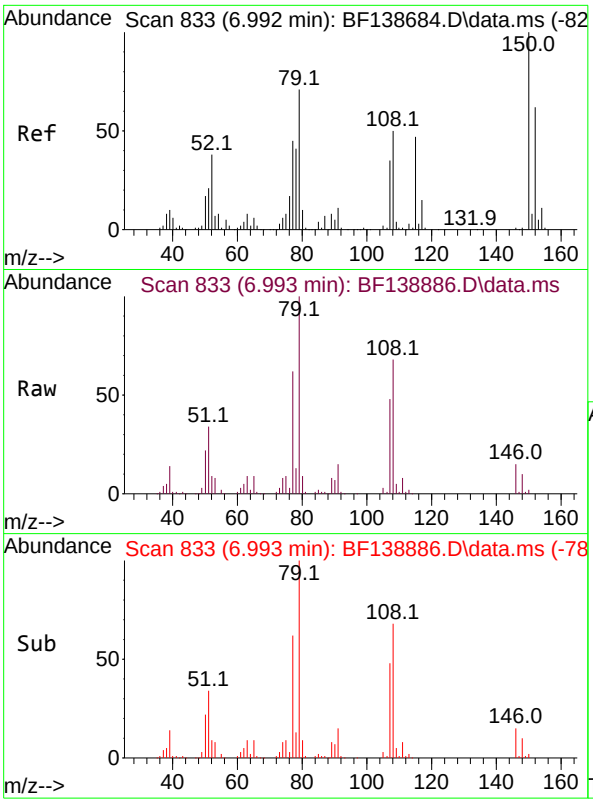



#14
1,2-Dichlorobenzene
Concen: 46.113 ng
RT: 7.010 min Scan# 836
Delta R.T. -0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:146 Resp: 185605

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 63.0 | 50.8 | 76.2 |
| 111 | 46.1 | 37.4 | 56.2 |






#15
Benzyl Alcohol
Concen: 51.022 ng
RT: 6.993 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion: 79 Resp: 17891

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 108 | 68.2 | 56.6 | 85.0 |
| 77 | 62.2 | 50.3 | 75.5 |

**Instrument :**
BNA_F
**ClientSampleId :**
PB162489BS

**Manual Integrations**
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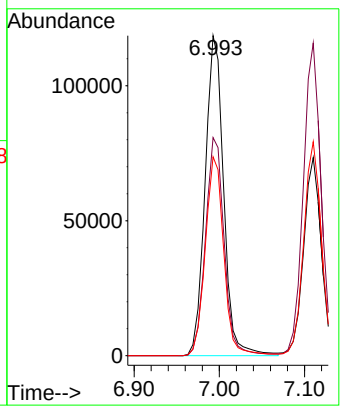
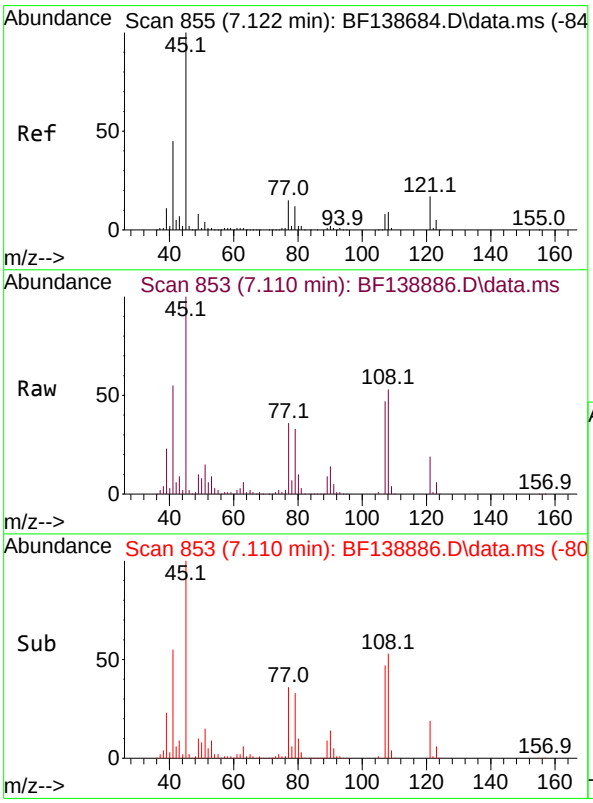
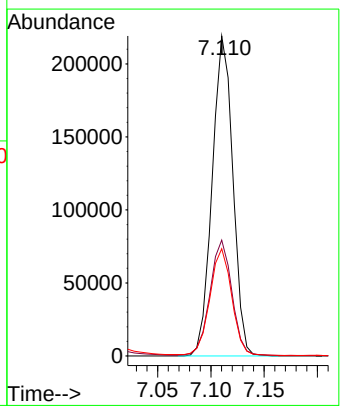


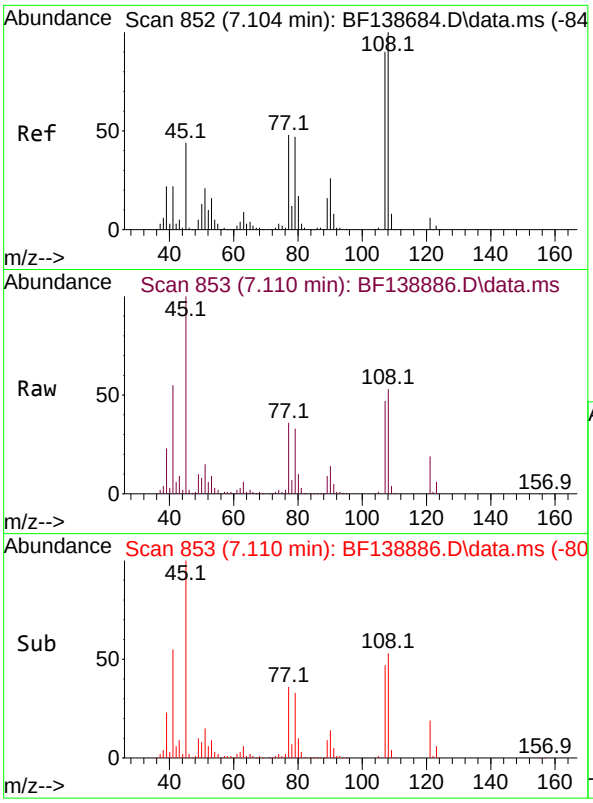




#16
2,2'-oxybis(1-Chloropropane)
Concen: 43.506 ng
RT: 7.110 min Scan# 853
Delta R.T. -0.012 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion: 45 Resp: 295135

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 77 | 36.2 | 0.0 | 34.9# |
| 79 | 33.5 | 0.0 | 32.2# |

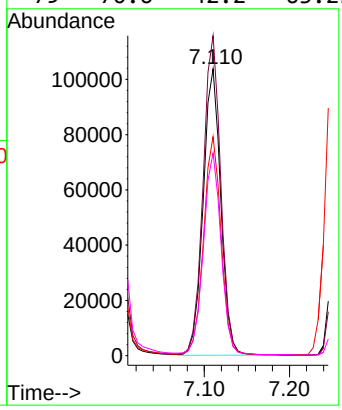





#17
2-Methylphenol
Concen: 47.404 ng
RT: 7.110 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:107 Resp: 14923

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 111.5 | 89.2 | 133.8 |
| 77 | 76.3 | 43.0 | 64.4# |
| 79 | 70.6 | 42.2 | 63.2# |




**Instrument :**
BNA_F
**ClientSampleId :**
PB162489BS

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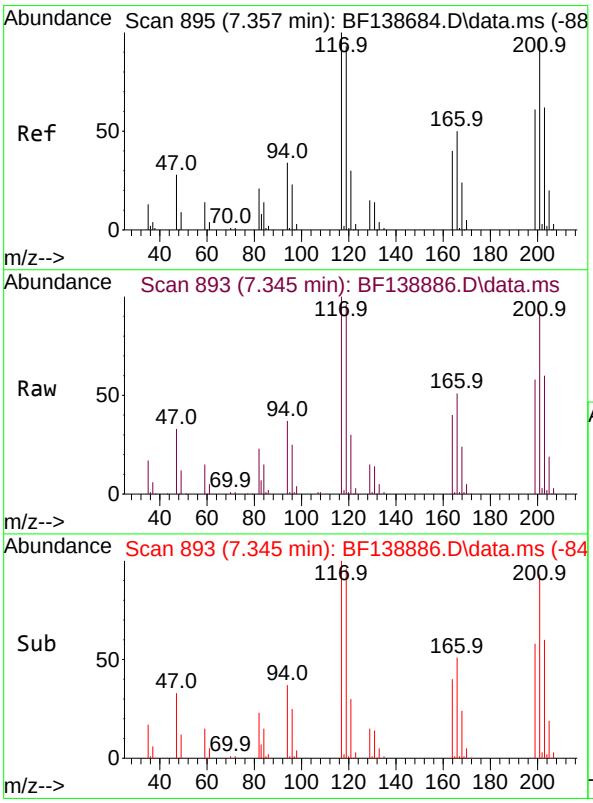
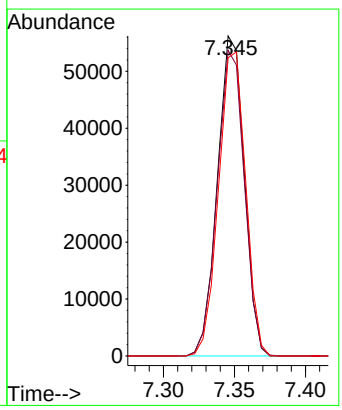
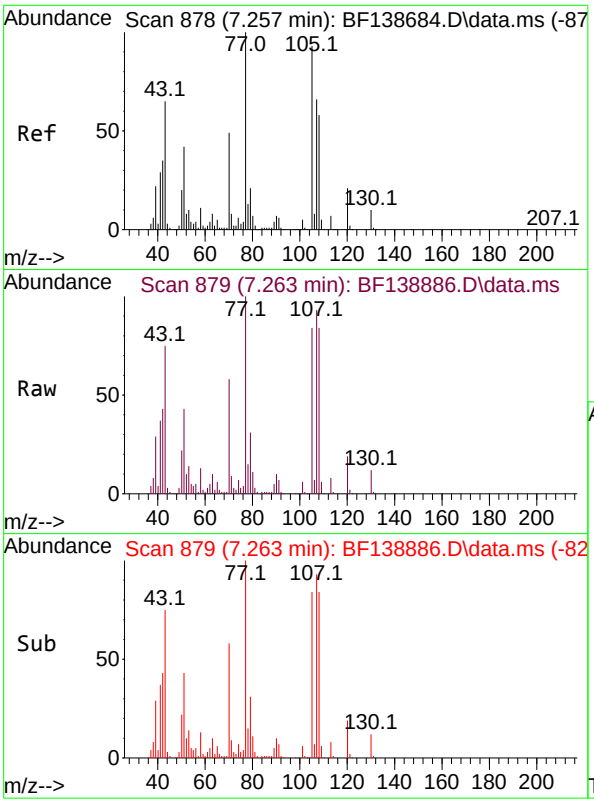



#18
Hexachloroethane
Concen: 45.540 ng
RT: 7.345 min Scan# 893
Delta R.T. -0.012 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:117 Resp: 73829

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 95.5 | 74.6 | 111.8 |
| 201 | 93.2 | 77.2 | 115.8 |

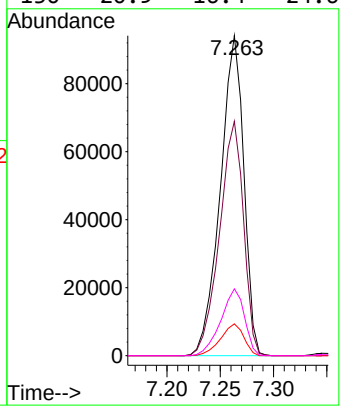





#19
n-Nitroso-di-n-propylamine
Concen: 49.128 ng
RT: 7.263 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion: 70 Resp: 14436

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 42 | 73.3 | 57.4 | 86.0 |
| 101 | 10.0 | 7.5 | 11.3 |
| 130 | 20.9 | 16.4 | 24.6 |




**Instrument :**
BNA_F
**ClientSampleId :**
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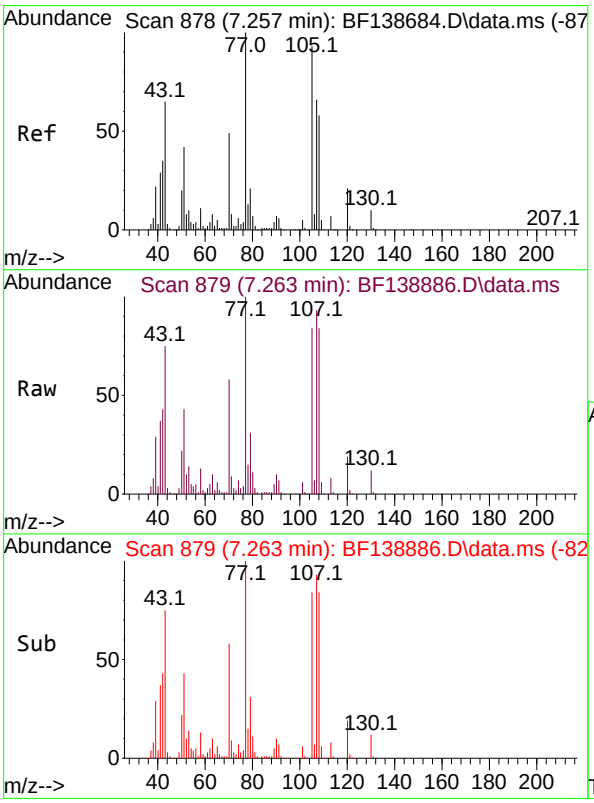
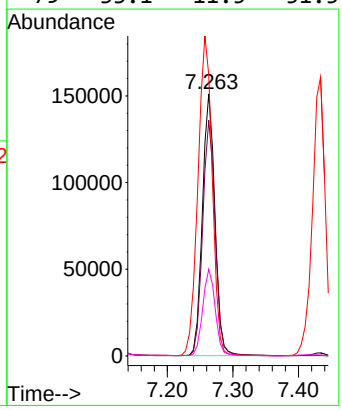
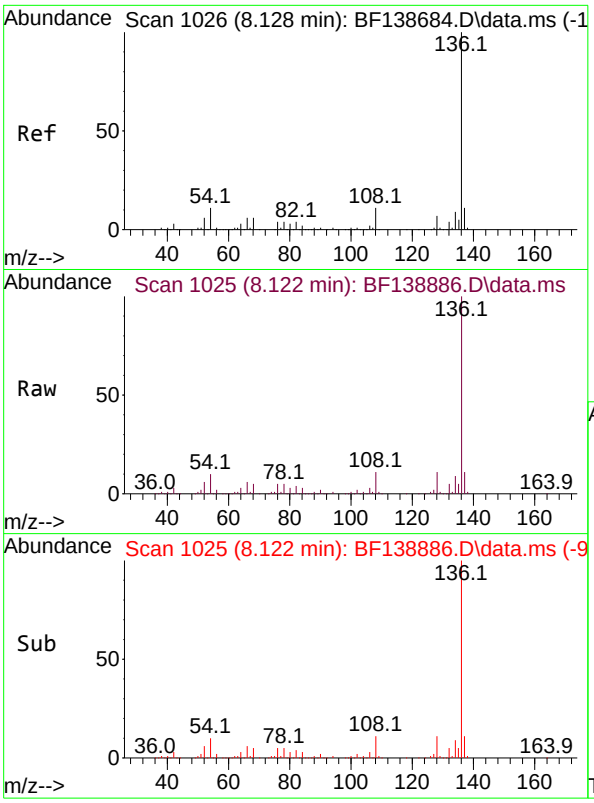



#20
3+4-Methylphenols
Concen: 49.813 ng
RT: 7.263 min Scan# 879
Delta R.T. 0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:107 Resp: 201207

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 89.9 | 68.2 | 108.2 |
| 77 | 107.2 | 132.1 | 172.1# |
| 79 | 33.1 | 11.5 | 51.5 |

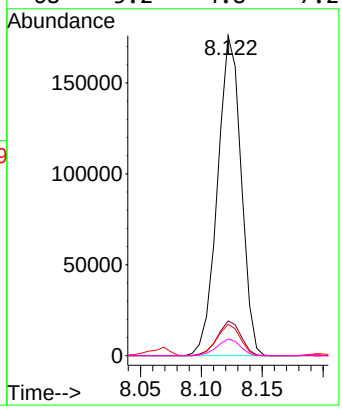





#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.122 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:136 Resp: 23730

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.9 | 8.9 | 13.3 |
| 54 | 9.8 | 8.6 | 12.8 |
| 68 | 5.2 | 4.8 | 7.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
PB162489BS

**Manual Integrations**
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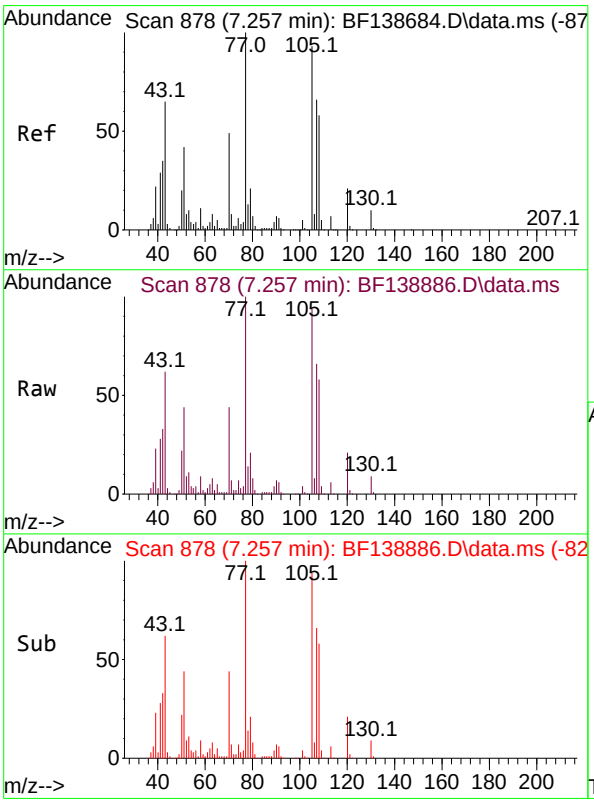
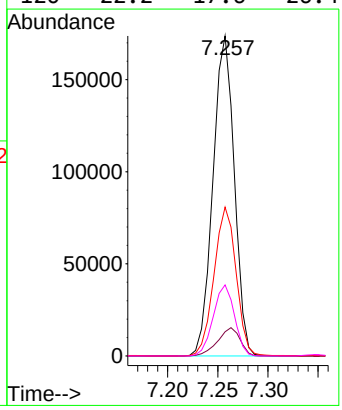
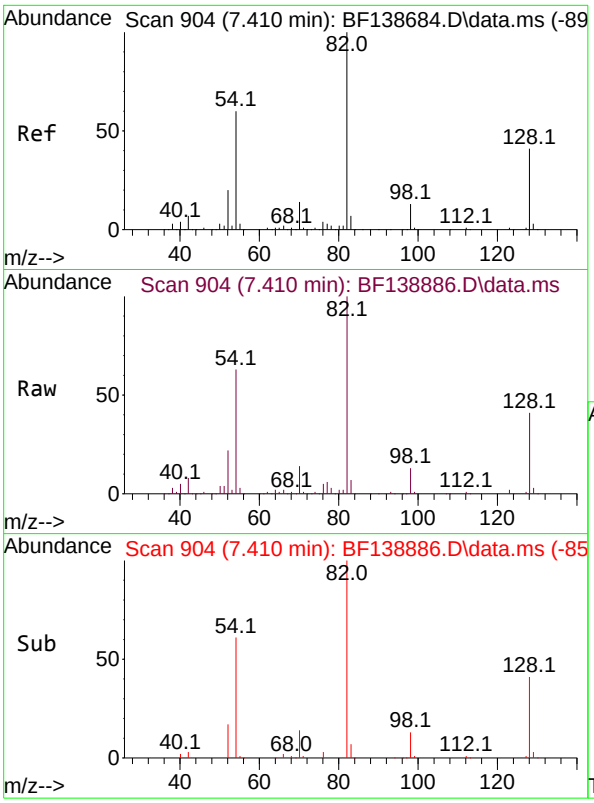



#22
Acetophenone
Concen: 44.193 ng
RT: 7.257 min Scan# 878
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:105 Resp: 256780

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 71 | 7.6 | 7.2 | 10.8 |
| 51 | 46.5 | 35.9 | 53.9 |
| 120 | 22.2 | 17.6 | 26.4 |

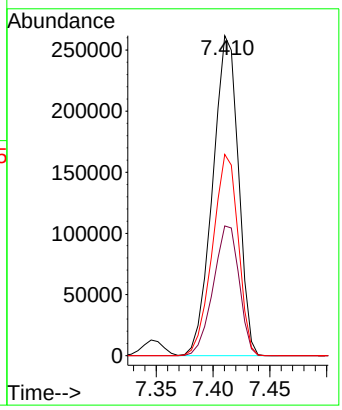





#23
Nitrobenzene-d5
Concen: 85.050 ng
RT: 7.410 min Scan# 9(
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion: 82 Resp: 41281(

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 40.6 | 32.8 | 49.2 |
| 54 | 62.9 | 48.3 | 72.5 |




**Instrument :**
BNA_F
**ClientSampleId :**
PB162489BS

**Manual Integrations**
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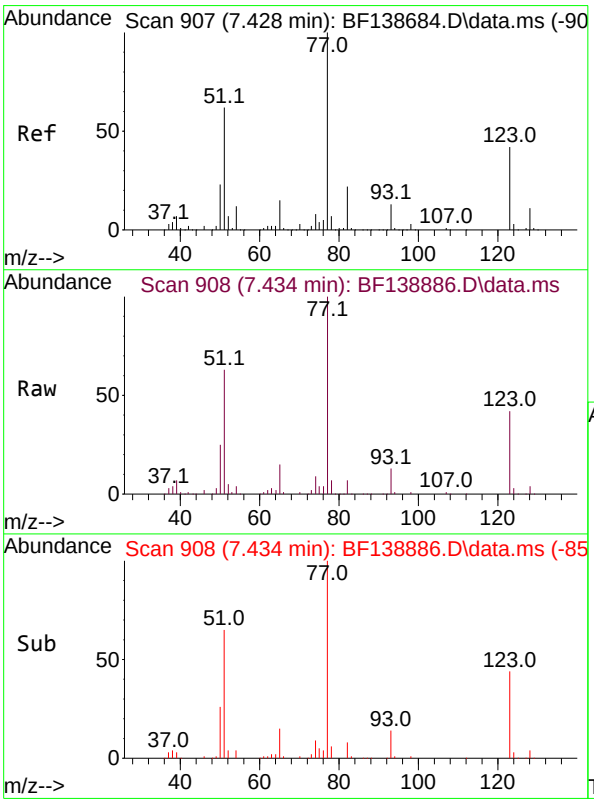
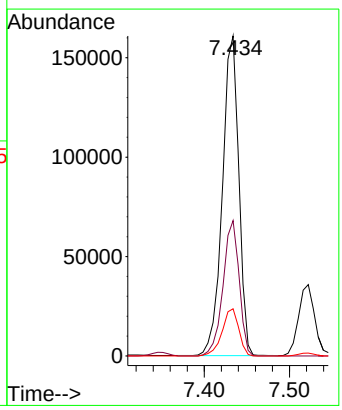
Supervised By :mohammad ahmed 08/12/2024

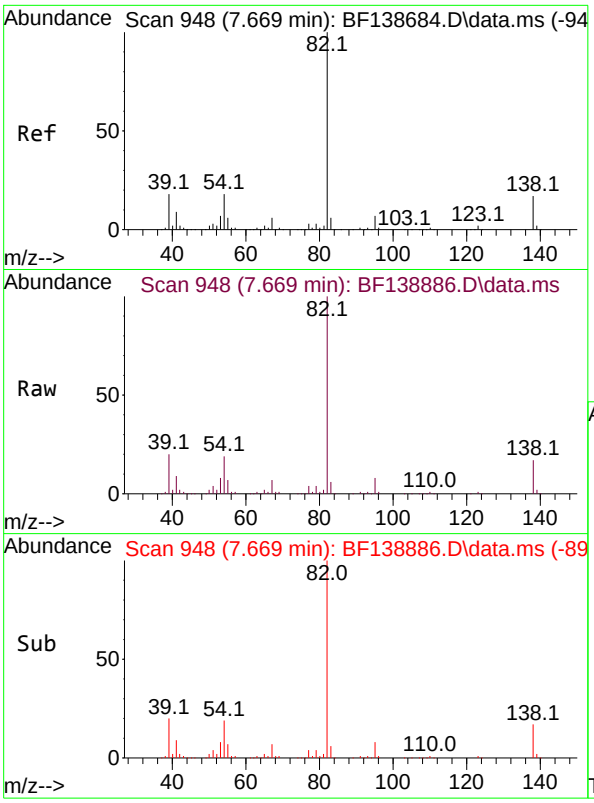



#24
Nitrobenzene
Concen: 43.596 ng
RT: 7.434 min Scan# 908
Delta R.T. 0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion: 77 Resp: 215325

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 123 | 42.3 | 33.3 | 49.9 |
| 65 | 14.8 | 11.9 | 17.9 |






#25
Isophorone
Concen: 46.276 ng
RT: 7.669 min Scan# 94
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion: 82 Resp: 383539

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 95 | 7.9 | 5.7 | 8.5 |
| 138 | 16.5 | 13.7 | 20.5 |

**Instrument :**
BNA_F
**ClientSampleId :**
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**Manual Integrations**
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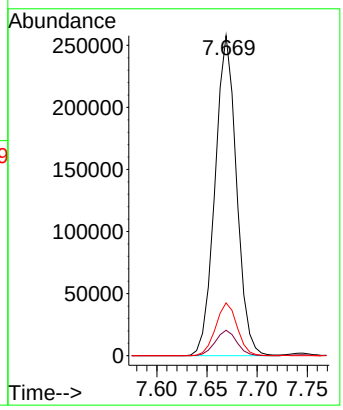
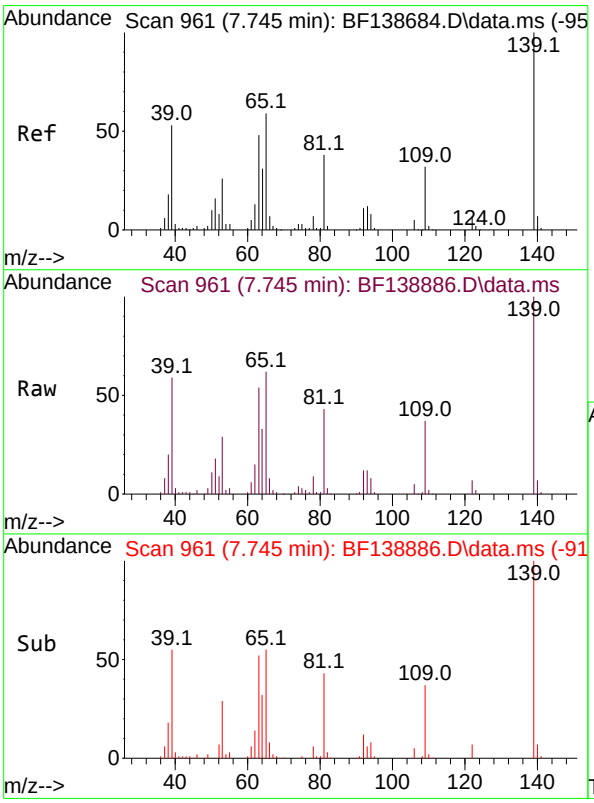
Supervised By :mohammad ahmed 08/12/2024

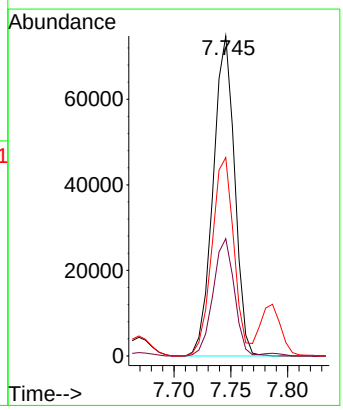


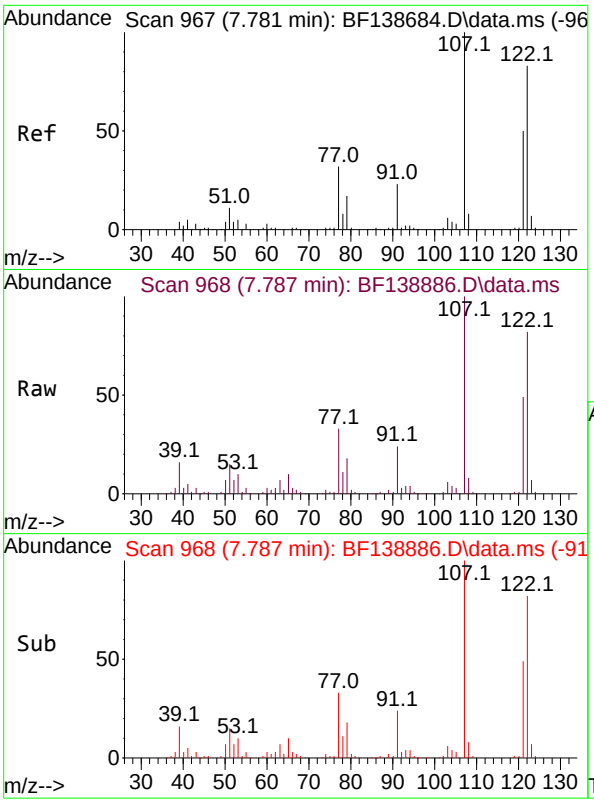




#26
2-Nitrophenol
Concen: 46.324 ng
RT: 7.745 min Scan# 961
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:139 Resp: 98435

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 36.6 | 25.9 | 38.9 |
| 65 | 62.0 | 47.0 | 70.6 |

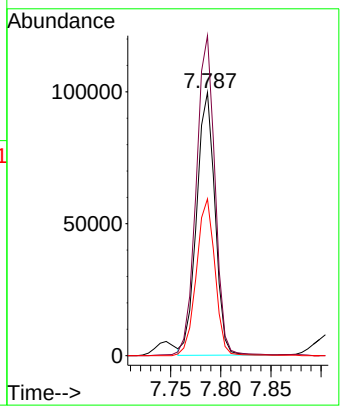





#27
2,4-Dimethylphenol
Concen: 50.076 ng
RT: 7.787 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:122 Resp: 12731

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 107 | 121.6 | 95.0 | 142.6 |
| 121 | 59.6 | 47.3 | 70.9 |

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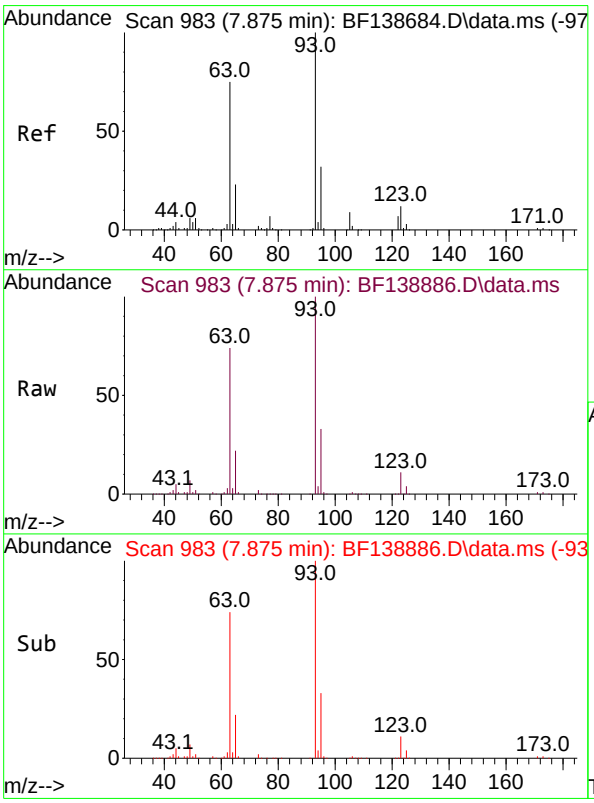
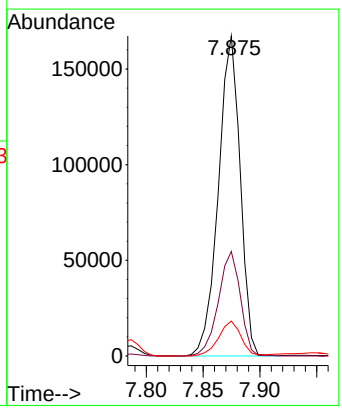
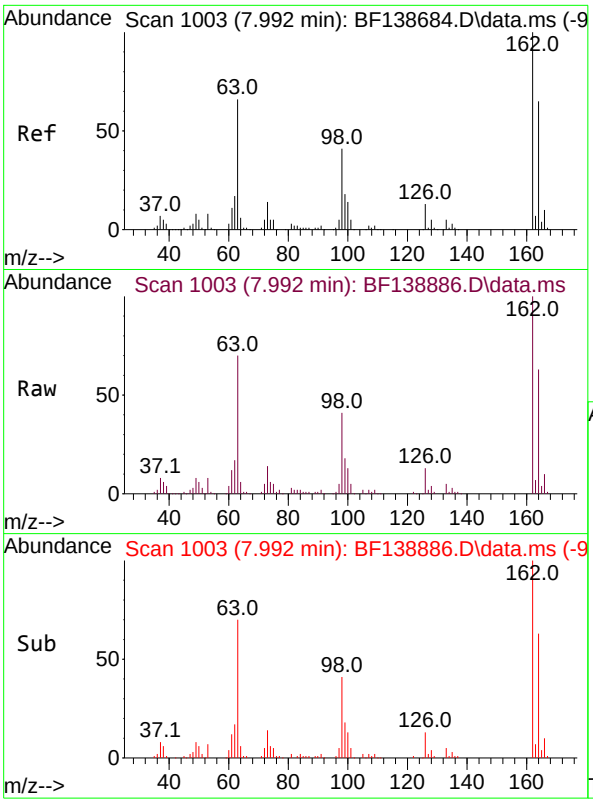



#28
bis(2-Chloroethoxy)methane
Concen: 44.236 ng
RT: 7.875 min Scan# 983
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion: 93 Resp: 223265

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 32.6 | 25.8 | 38.8 |
| 123 | 10.9 | 9.4 | 14.0 |

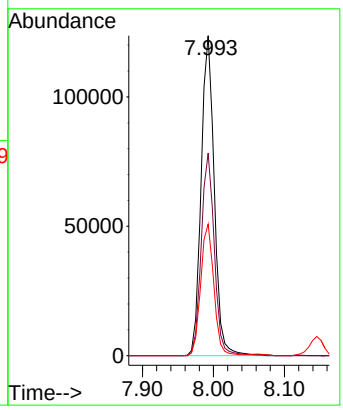





#29
2,4-Dichlorophenol
Concen: 48.810 ng
RT: 7.992 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:162 Resp: 15946

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 164 | 63.3 | 44.7 | 84.7 |
| 98 | 41.2 | 20.8 | 60.8 |




**Instrument :**
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**ClientSampleId :**
PB162489BS

**Manual Integrations**
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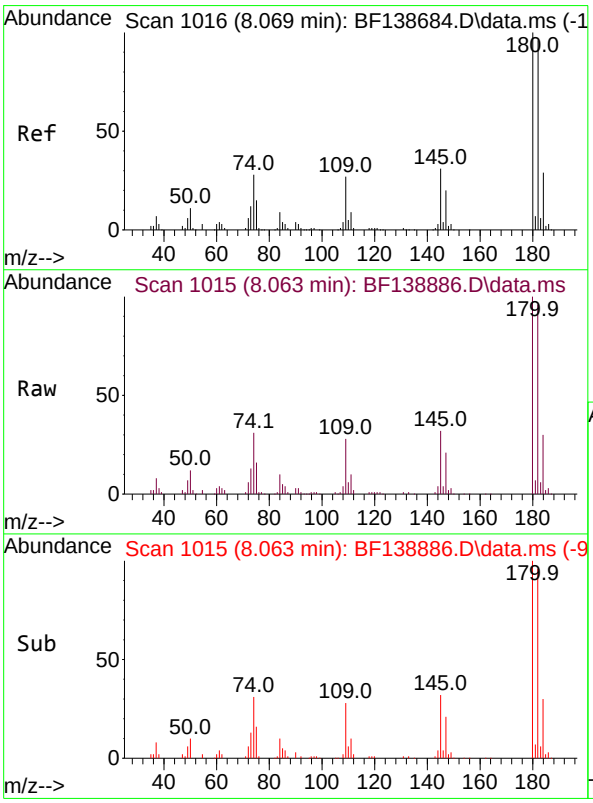
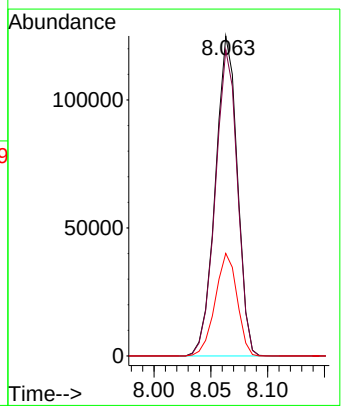
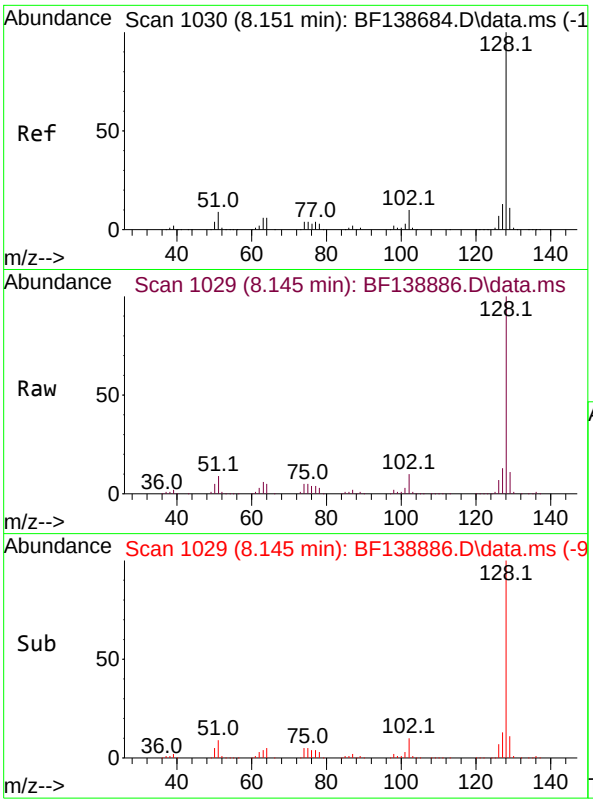



#30
1,2,4-Trichlorobenzene
Concen: 44.765 ng
RT: 8.063 min Scan# 1015
Delta R.T. -0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:180 Resp: 168771

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.7 | 76.9 | 115.3 |
| 145 | 32.1 | 25.0 | 37.4 |

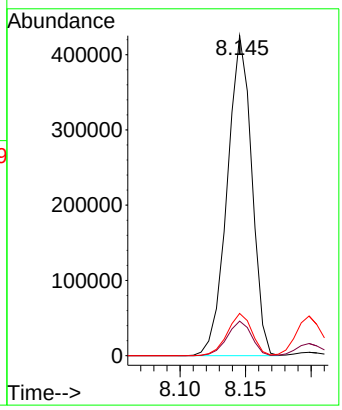





#31
Naphthalene
Concen: 44.292 ng
RT: 8.145 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:128 Resp: 55325

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 10.8 | 8.7 | 13.1 |
| 127 | 13.2 | 10.6 | 16.0 |




**Instrument :**
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**ClientSampleId :**
PB162489BS

**Manual Integrations**
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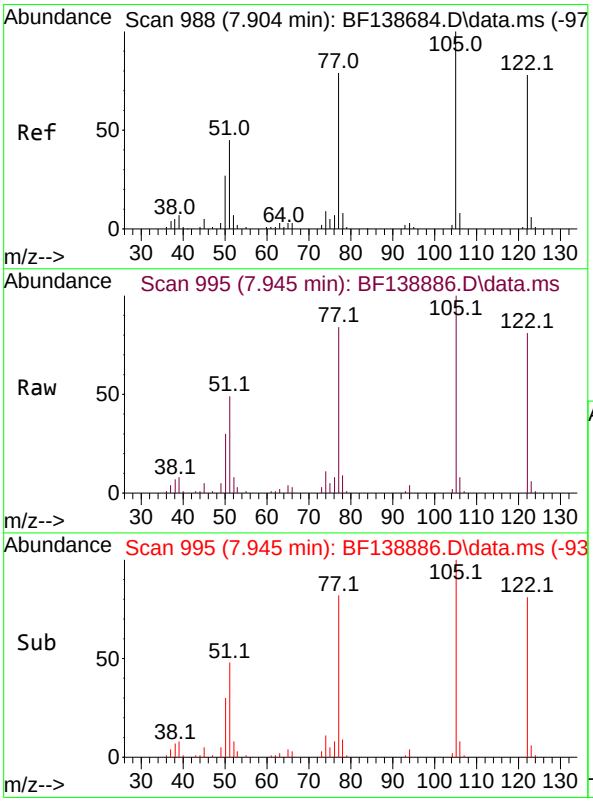
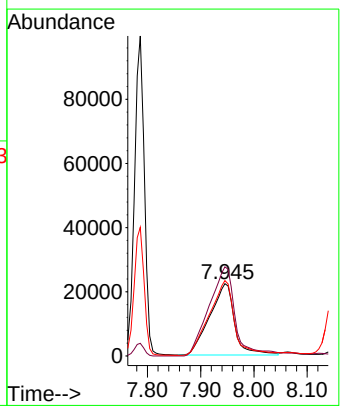
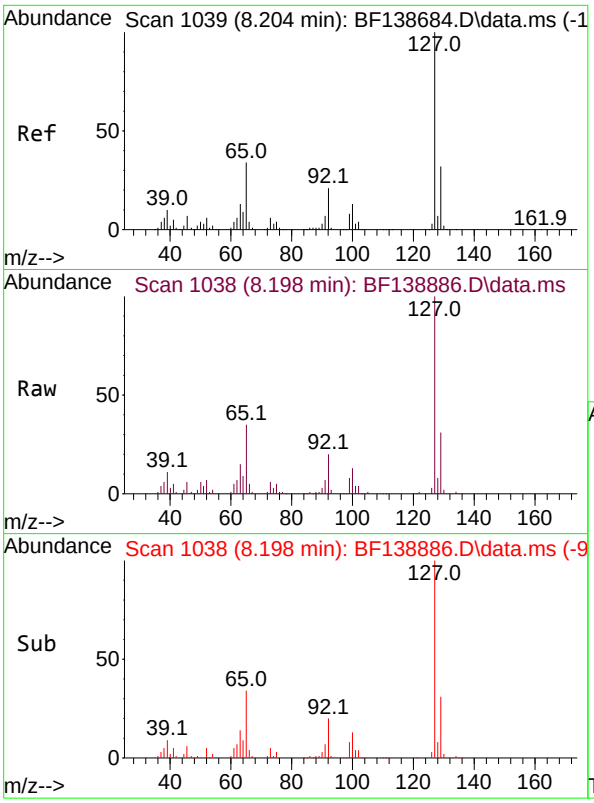



#32
Benzoic acid
Concen: 36.056 ng
RT: 7.945 min Scan# 995
Delta R.T. 0.041 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:122 Resp: 72059

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 123.4 | 106.7 | 146.7 |
| 77 | 104.2 | 81.1 | 121.1 |

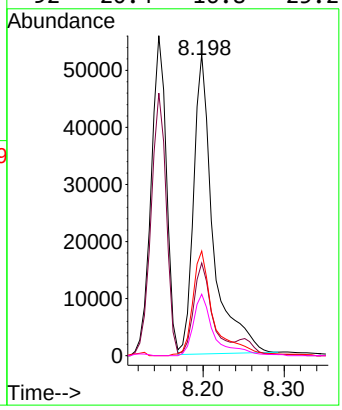





#33
4-Chloroaniline
Concen: 21.011 ng
RT: 8.198 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:127 Resp: 8810

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 30.7 | 25.9 | 38.9 |
| 65 | 34.7 | 27.6 | 41.4 |
| 92 | 20.4 | 16.8 | 25.2 |




**Instrument :**
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PB162489BS

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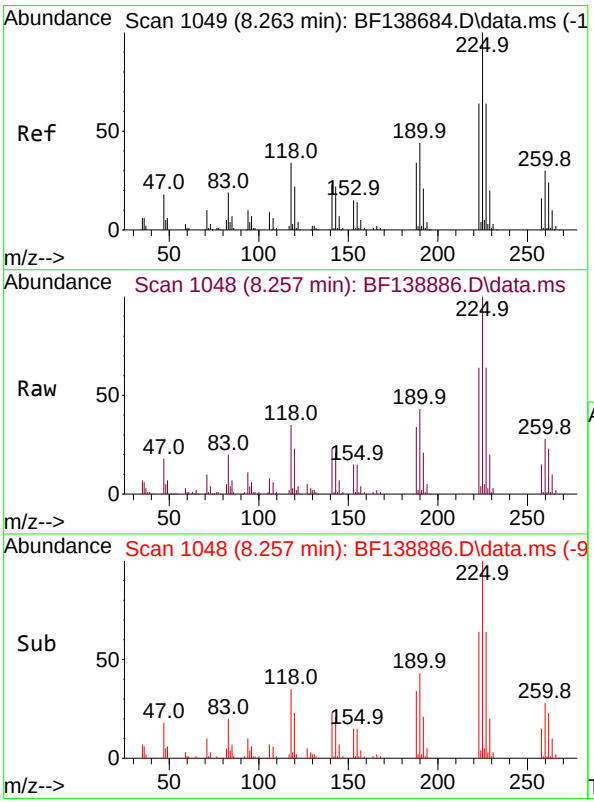
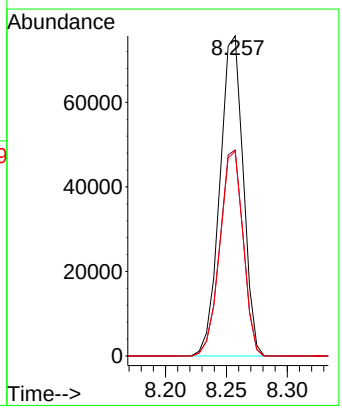
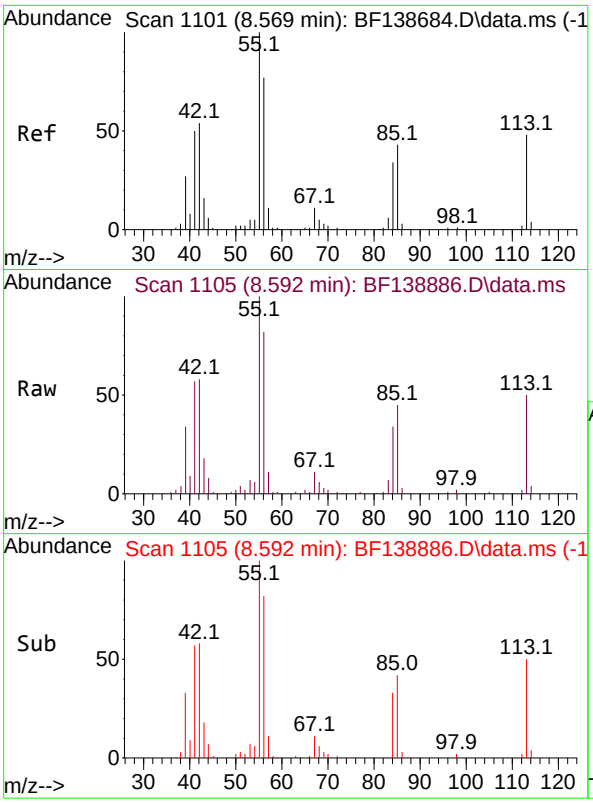



#34
Hexachlorobutadiene
Concen: 44.120 ng
RT: 8.257 min Scan# 1048
Delta R.T. -0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:225 Resp: 100753

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 64.4 | 51.2 | 76.8 |
| 227 | 64.0 | 51.1 | 76.7 |

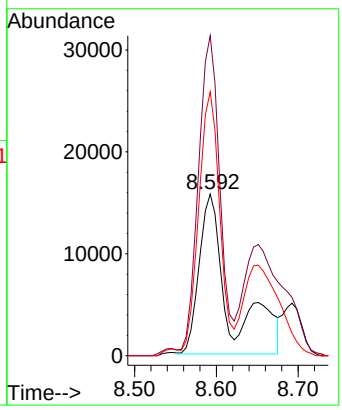





#35
Caprolactam
Concen: 41.525 ng m
RT: 8.592 min Scan# 1
Delta R.T. 0.024 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:113 Resp: 4048

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 55 | 198.0 | 186.7 | 226.7 |
| 56 | 163.3 | 138.9 | 178.9 |




**Instrument :**
BNA_F
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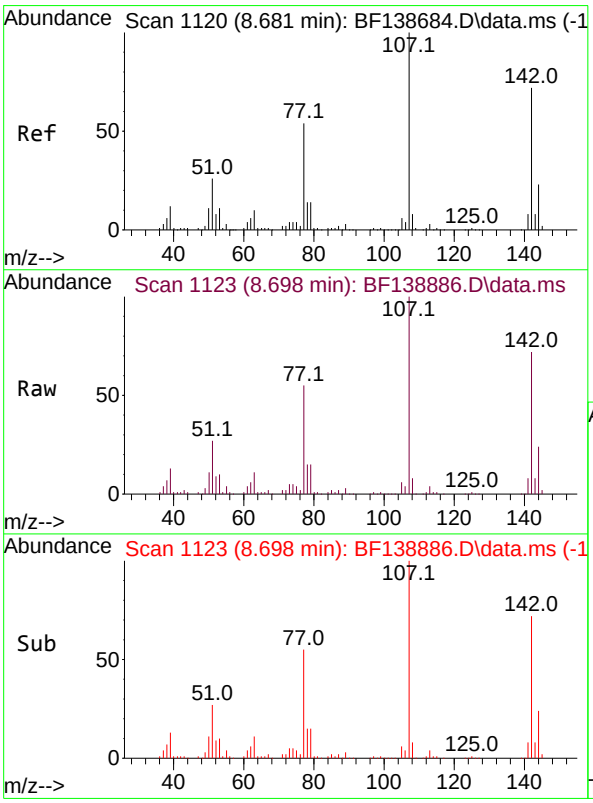
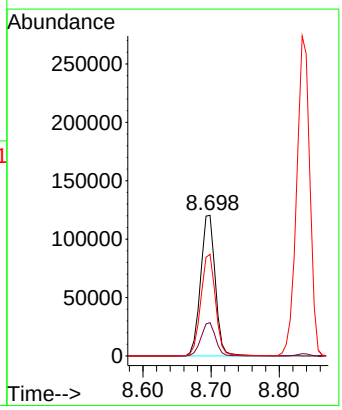
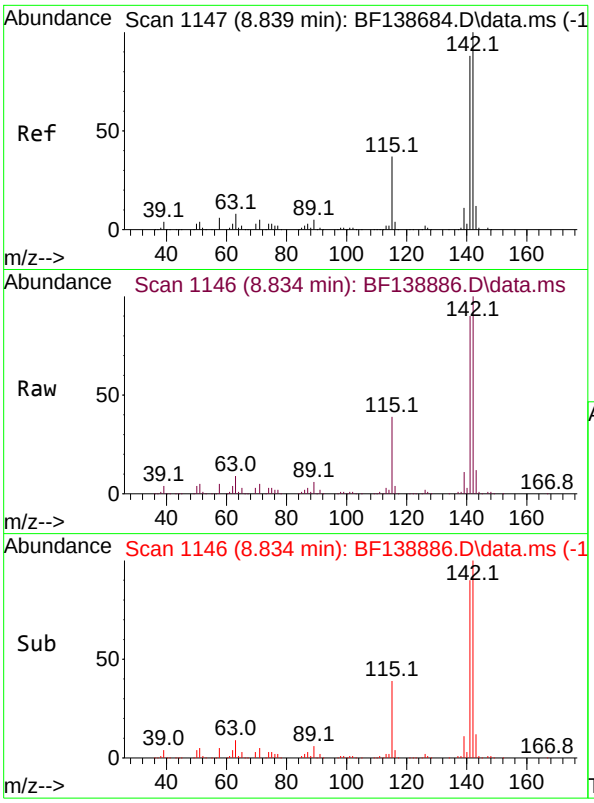



#36
4-Chloro-3-methylphenol
Concen: 48.523 ng
RT: 8.698 min Scan# 1123
Delta R.T. 0.018 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:107 Resp: 181168

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 144 | 23.7 | 18.2 | 27.2 |
| 142 | 72.2 | 57.4 | 86.2 |

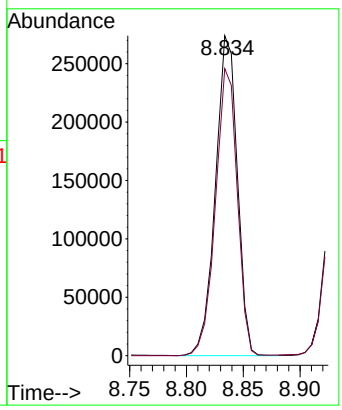





#37
2-Methylnaphthalene
Concen: 46.522 ng
RT: 8.834 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:142 Resp: 36700

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 89.7 | 70.8 | 106.2 |




**Instrument :**
BNA_F
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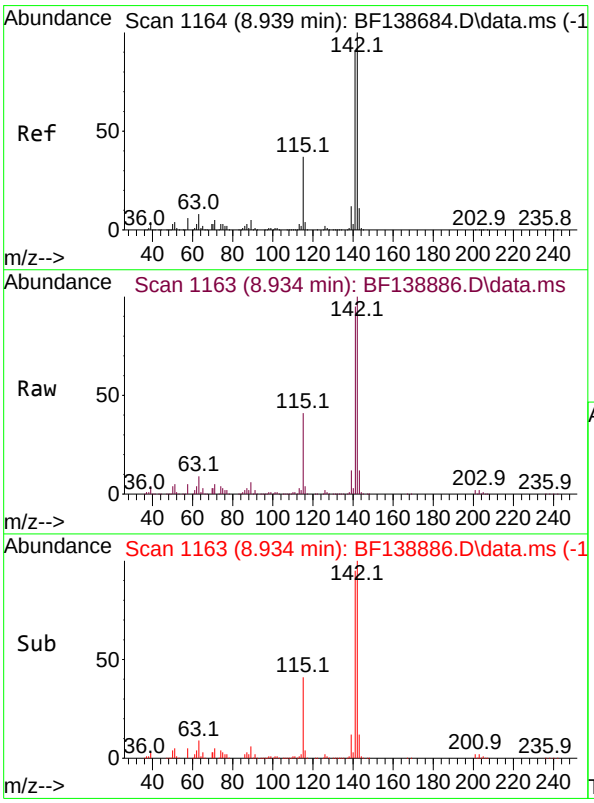
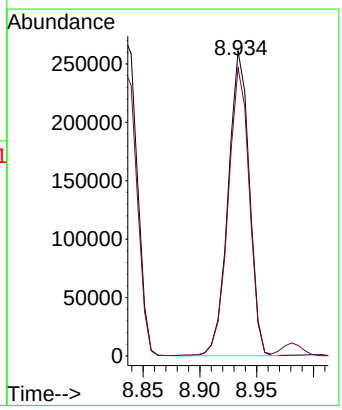
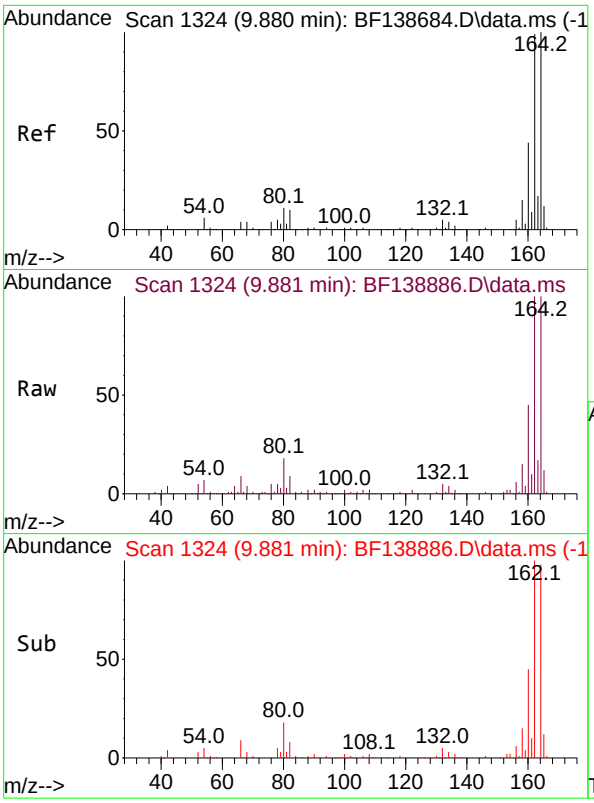



#38
1-Methylnaphthalene
Concen: 43.596 ng
RT: 8.934 min Scan# 1163
Delta R.T. -0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:142 Resp: 337008

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 94.5 | 73.1 | 109.7 |

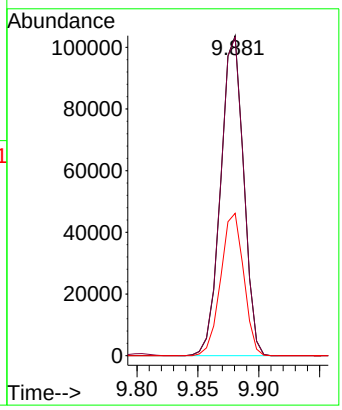





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.881 min Scan# 1
Delta R.T. 0.001 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:164 Resp: 13570

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 99.6 | 79.4 | 119.0 |
| 160 | 44.5 | 35.1 | 52.7 |




**Instrument :**
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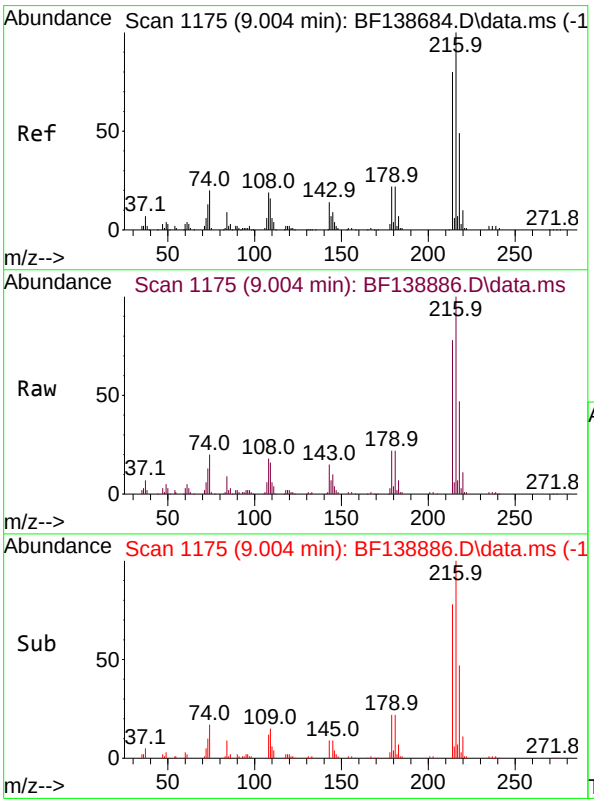
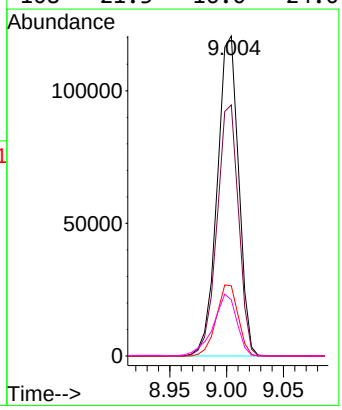
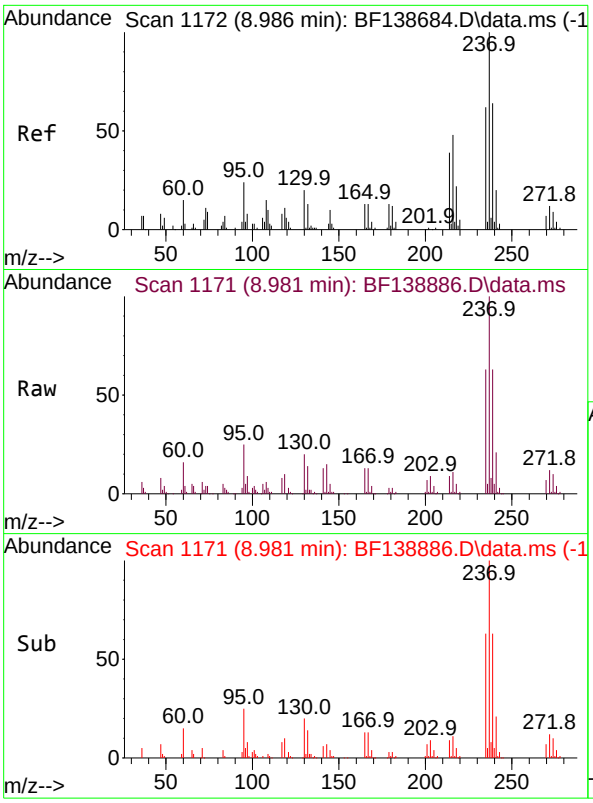



#40
1,2,4,5-Tetrachlorobenzene
Concen: 42.045 ng
RT: 9.004 min Scan# 1175
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:216 Resp: 158491

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 216 | 100 | | |
| 214 | 78.7 | 63.9 | 95.9 |
| 179 | 22.5 | 17.8 | 26.6 |
| 108 | 21.3 | 16.0 | 24.0 |

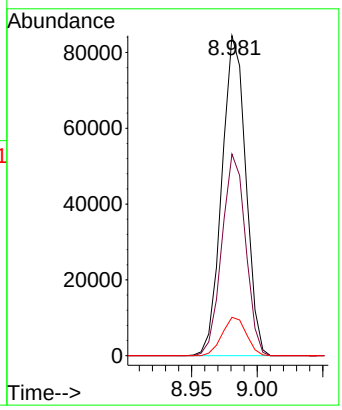





#41
Hexachlorocyclopentadiene
Concen: 104.770 ng
RT: 8.981 min Scan# 11
Delta R.T. -0.005 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:237 Resp: 10689

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 237 | 100 | | |
| 235 | 63.0 | 41.8 | 81.8 |
| 272 | 12.0 | 0.0 | 32.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
PB162489BS

**Manual Integrations**
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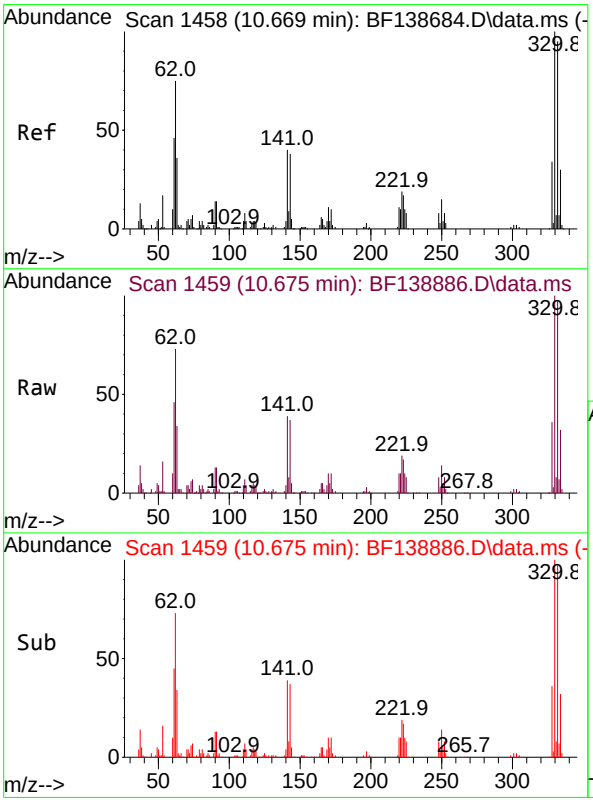
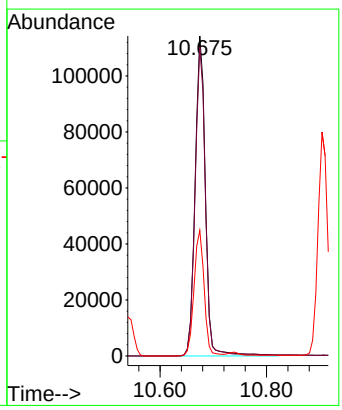
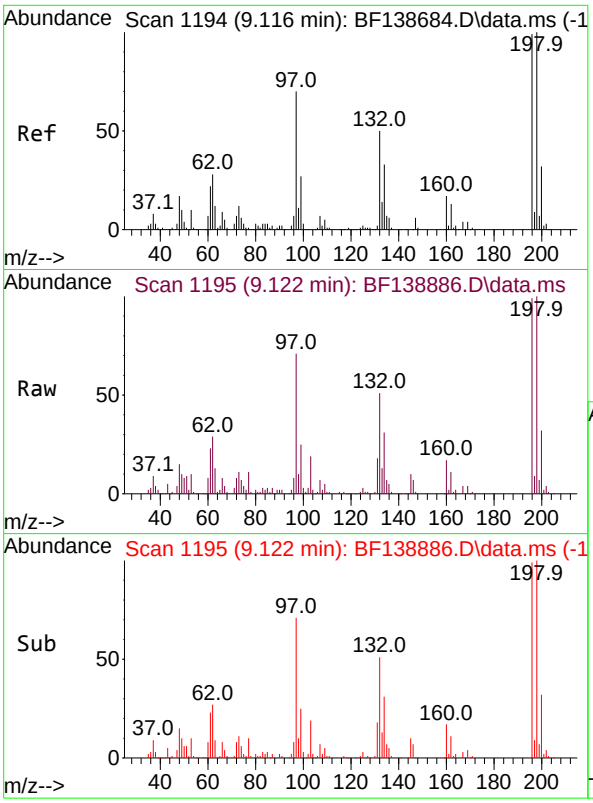



#42
2,4,6-Tribromophenol
Concen: 138.707 ng
RT: 10.675 min Scan# 1459
Delta R.T. 0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:330 Resp: 154182

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 94.9 | 76.4 | 114.6 |
| 141 | 38.5 | 31.1 | 46.7 |

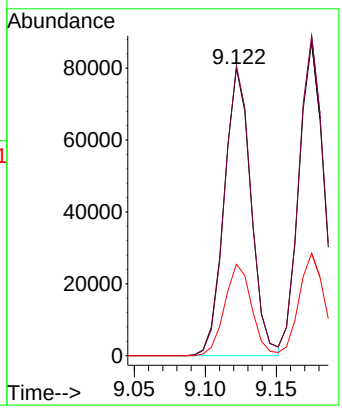





#43
2,4,6-Trichlorophenol
Concen: 45.594 ng
RT: 9.122 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:196 Resp: 10479

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 100.9 | 80.5 | 120.7 |
| 200 | 31.9 | 25.9 | 38.9 |




**Instrument :**
BNA_F
**ClientSampleId :**
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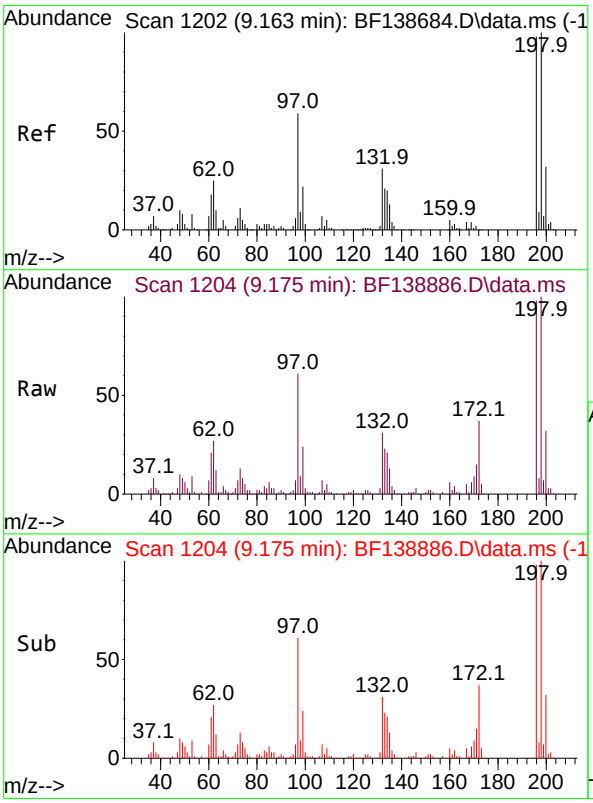
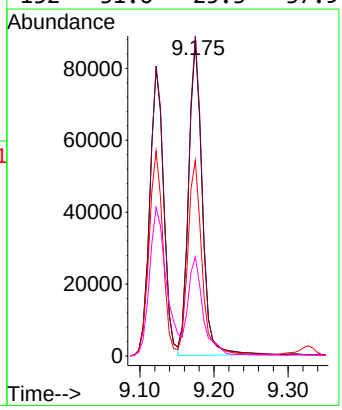
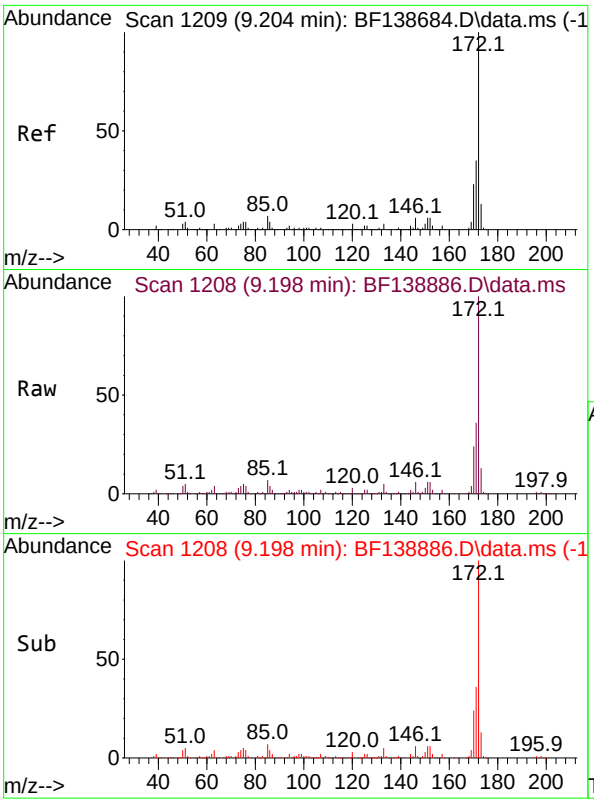



#44
2,4,5-Trichlorophenol
Concen: 44.209 ng
RT: 9.175 min Scan# 1204
Delta R.T. 0.012 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:196 Resp: 111079

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 102.0 | 81.2 | 121.8 |
| 97 | 62.3 | 47.8 | 71.6 |
| 132 | 31.6 | 25.3 | 37.9 |

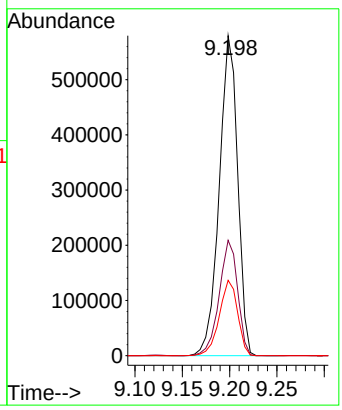





#45
2-Fluorobiphenyl
Concen: 86.902 ng
RT: 9.198 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:172 Resp: 78486

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.0 | 28.3 | 42.5 |
| 170 | 23.5 | 18.8 | 28.2 |




**Instrument :**
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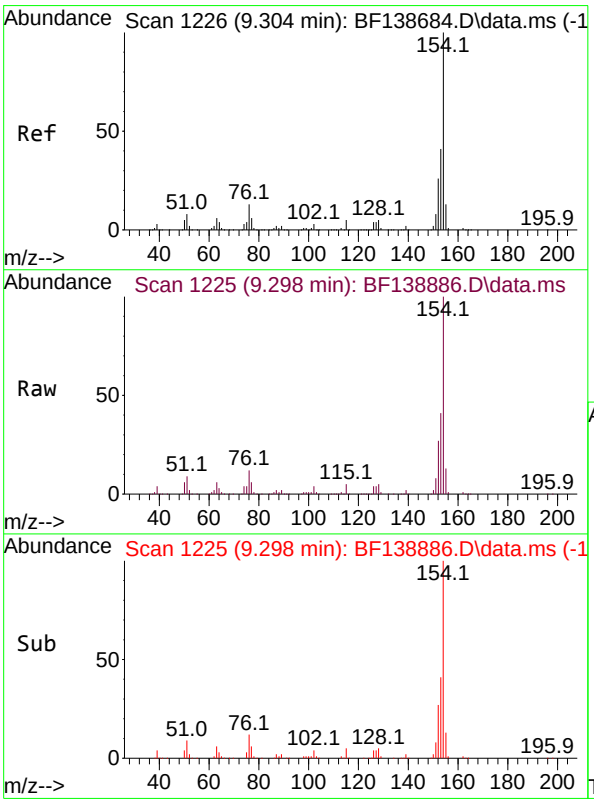
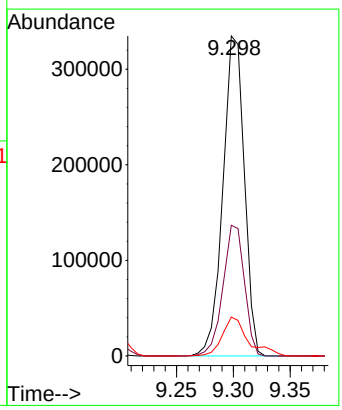
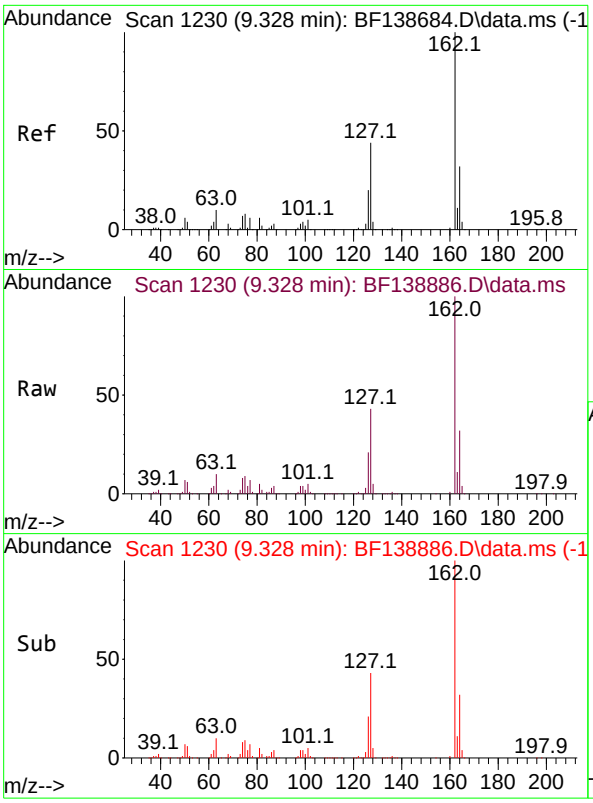



#46
1,1'-Biphenyl
Concen: 41.343 ng
RT: 9.298 min Scan# 1225
Delta R.T. -0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:154 Resp: 439384

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 40.9 | 20.8 | 60.8 |
| 76 | 12.1 | 0.0 | 32.8 |

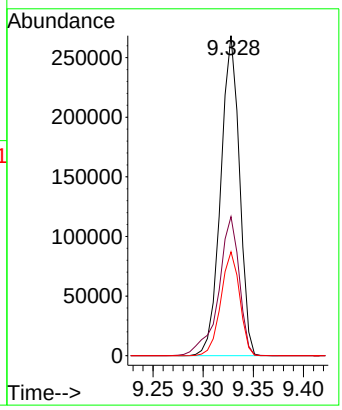





#47
2-Chloronaphthalene
Concen: 44.064 ng
RT: 9.328 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:162 Resp: 34829

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 127 | 43.5 | 35.4 | 53.2 |
| 164 | 32.5 | 25.6 | 38.4 |




**Instrument :**
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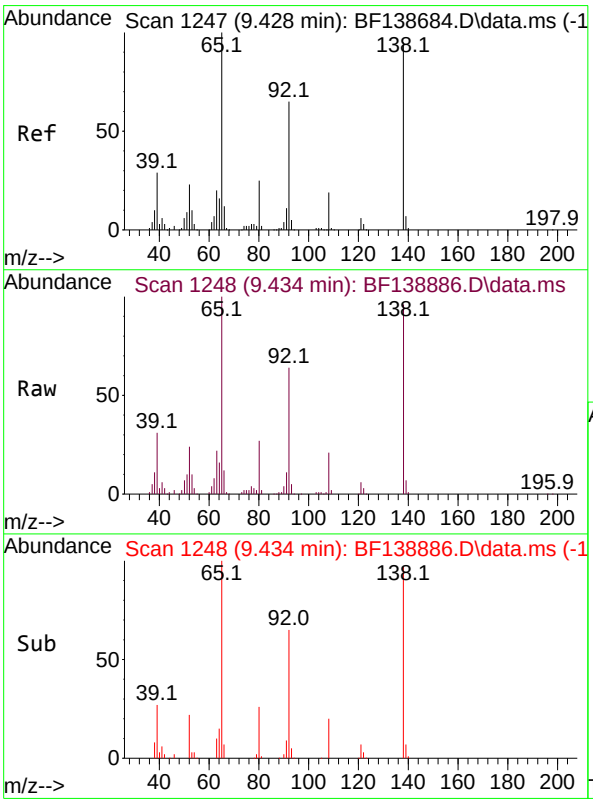
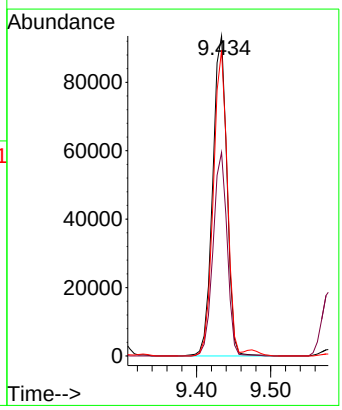
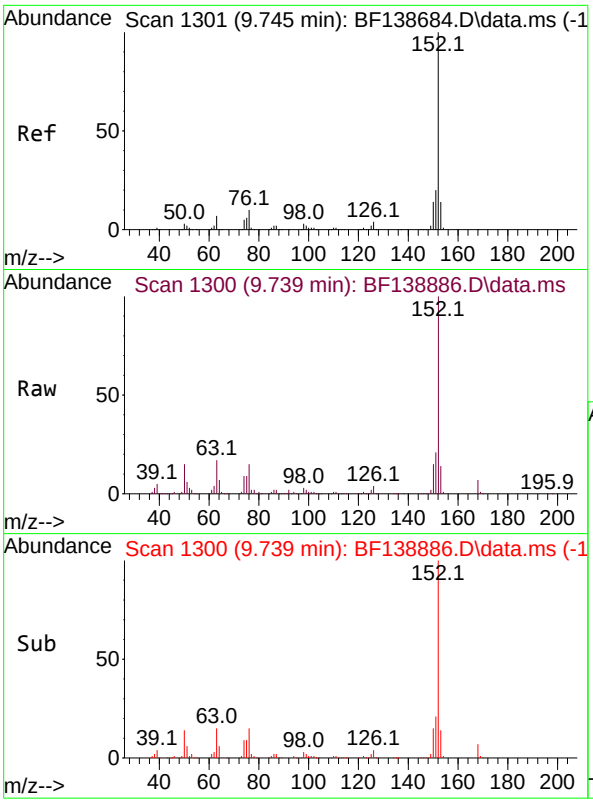



#48
2-Nitroaniline
Concen: 46.616 ng
RT: 9.434 min Scan# 1248
Delta R.T. 0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion: 65 Resp: 124915

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 92 | 63.6 | 52.0 | 78.0 |
| 138 | 95.5 | 76.2 | 114.4 |

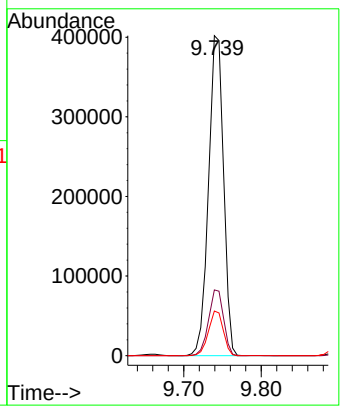





#49
Acenaphthylene
Concen: 48.356 ng
RT: 9.739 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:152 Resp: 54209

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.5 | 16.0 | 24.0 |
| 153 | 13.9 | 11.0 | 16.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
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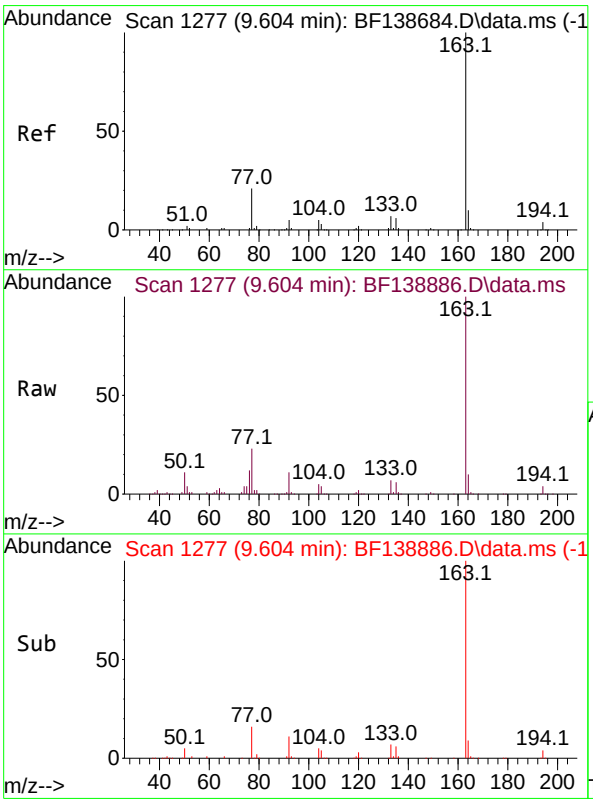
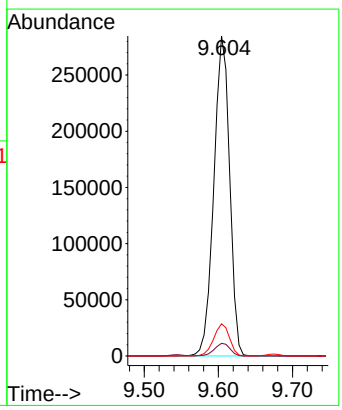
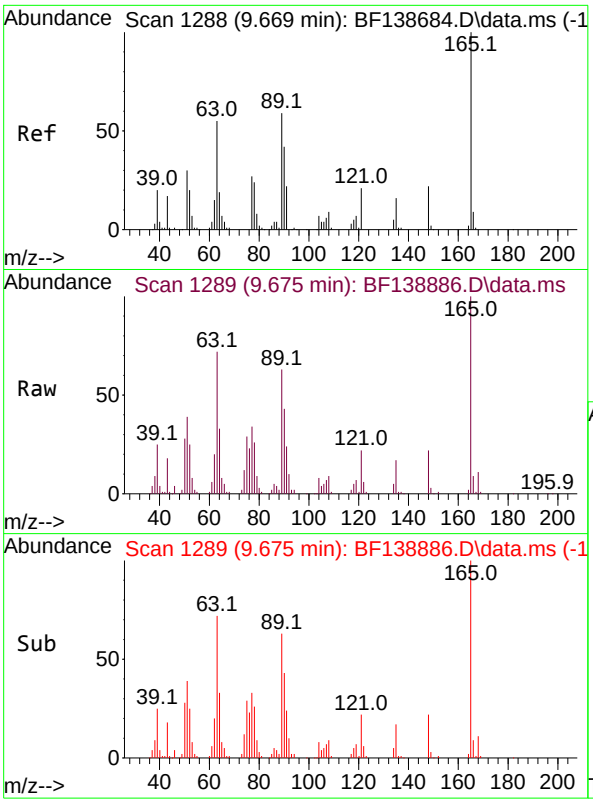



#50
Dimethylphthalate
Concen: 48.463 ng
RT: 9.604 min Scan# 1277
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:163 Resp: 420510

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 3.9 | 3.1 | 4.7 |
| 164 | 10.0 | 7.8 | 11.8 |

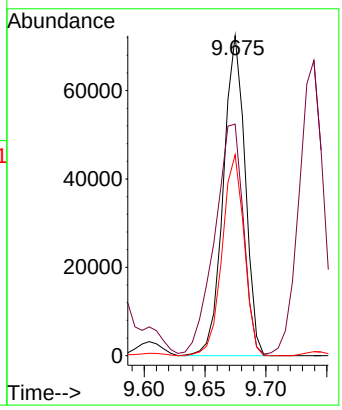





#51
2,6-Dinitrotoluene
Concen: 45.941 ng
RT: 9.675 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:165 Resp: 8996

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 72.3 | 52.0 | 78.0 |
| 89 | 62.8 | 47.0 | 70.6 |




**Instrument :**
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**ClientSampleId :**
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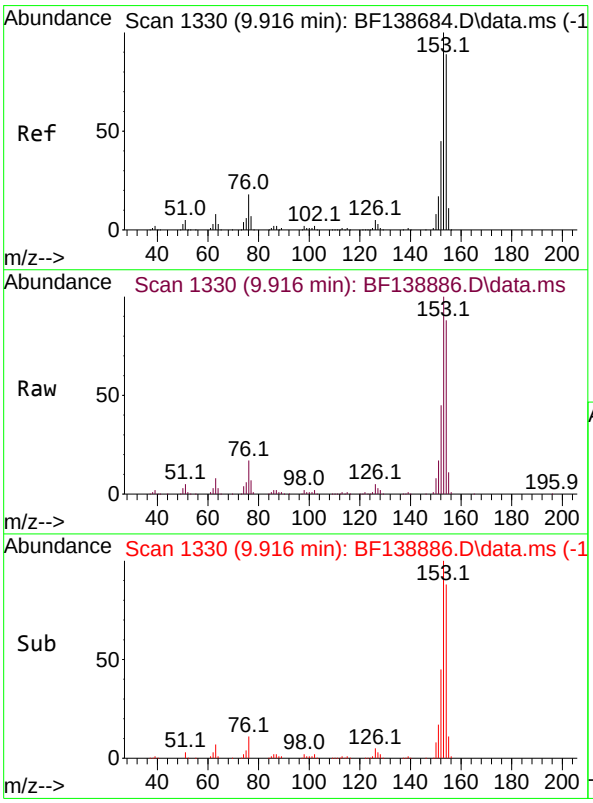
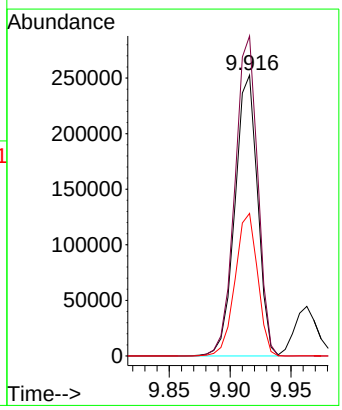
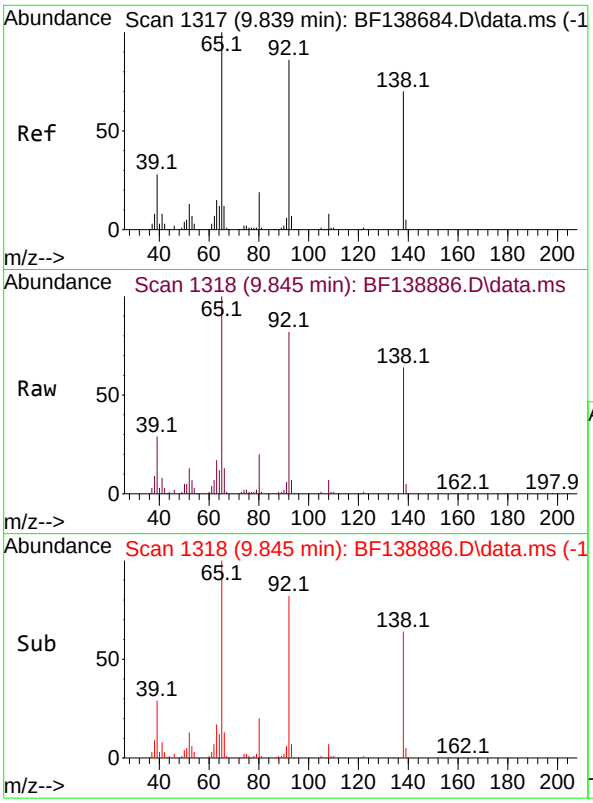



#52
Acenaphthene
Concen: 43.472 ng
RT: 9.916 min Scan# 1330
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:154 Resp: 327605

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 114.0 | 89.9 | 134.9 |
| 152 | 50.7 | 40.6 | 60.8 |






#53
3-Nitroaniline
Concen: 29.847 ng
RT: 9.845 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:138 Resp: 6042

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 108 | 11.6 | 9.1 | 13.7 |
| 92 | 128.4 | 98.7 | 148.1 |

**Instrument :**
BNA_F
**ClientSampleId :**
PB162489BS

**Manual Integrations**
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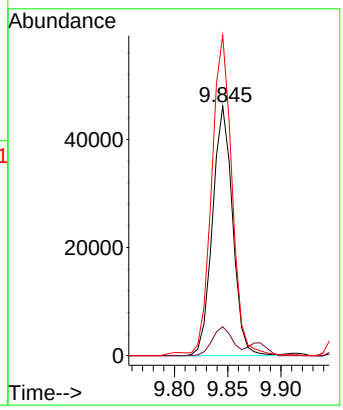
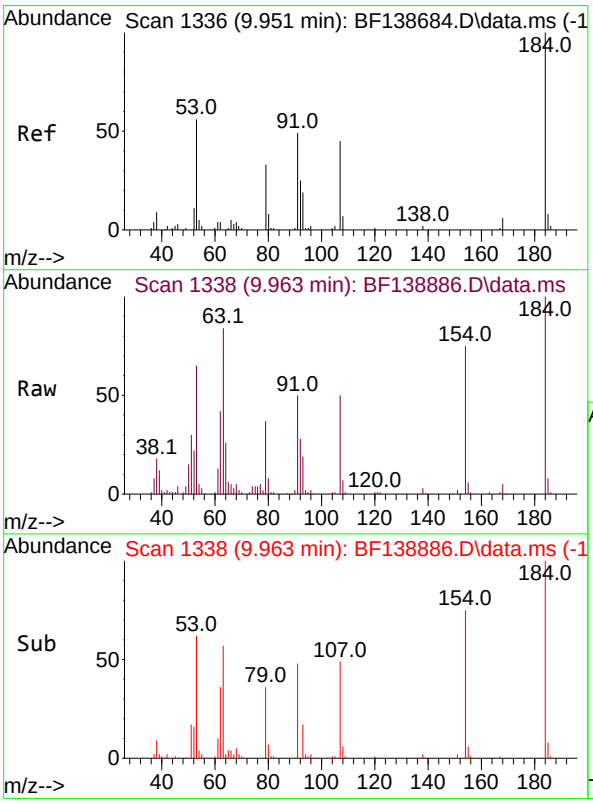
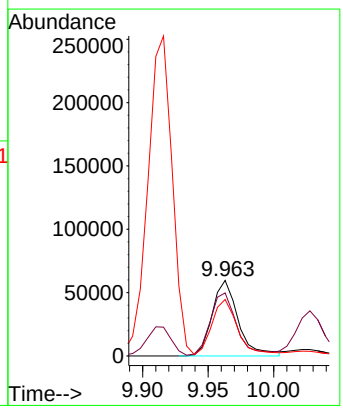


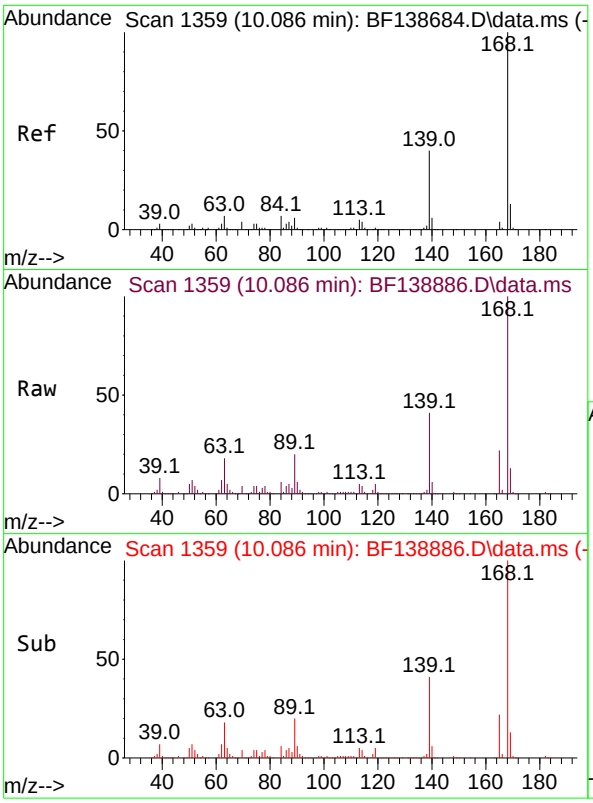




#54
2,4-Dinitrophenol
Concen: 91.337 ng
RT: 9.963 min Scan# 1338
Delta R.T. 0.012 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:184 Resp: 82333

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 63 | 83.6 | 57.5 | 86.3 |
| 154 | 74.8 | 51.7 | 77.5 |

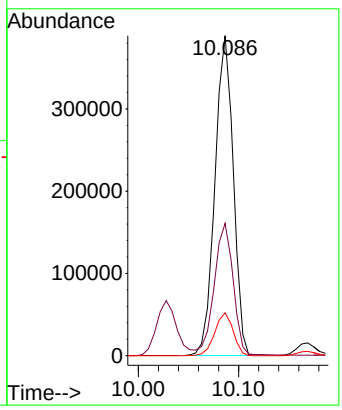





#55
Dibenzofuran
Concen: 46.388 ng
RT: 10.086 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:168 Resp: 49346

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 41.4 | 32.6 | 49.0 |
| 169 | 13.4 | 10.7 | 16.1 |




**Instrument :**
BNA_F
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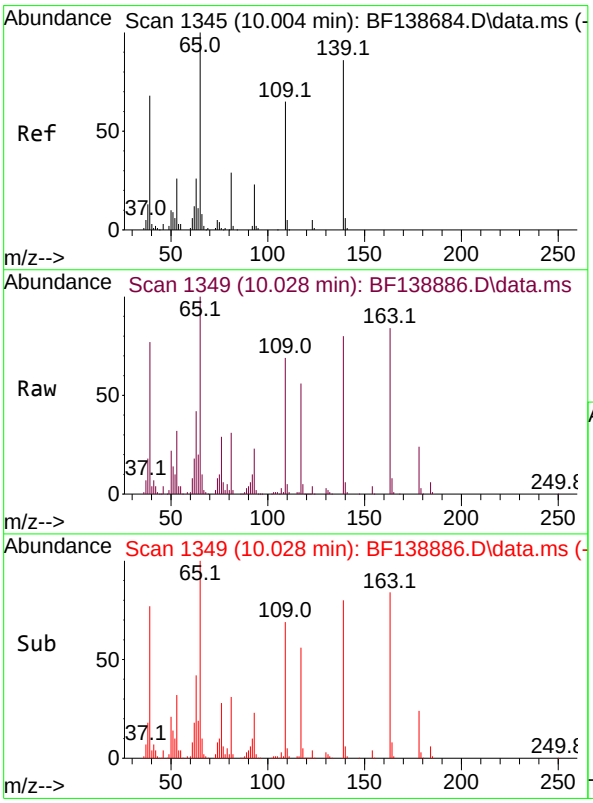
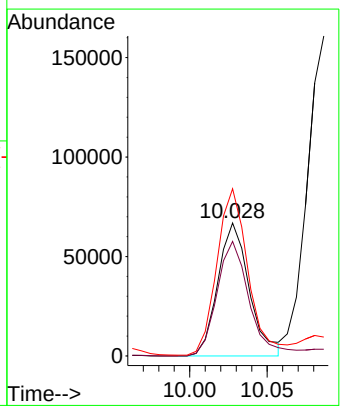
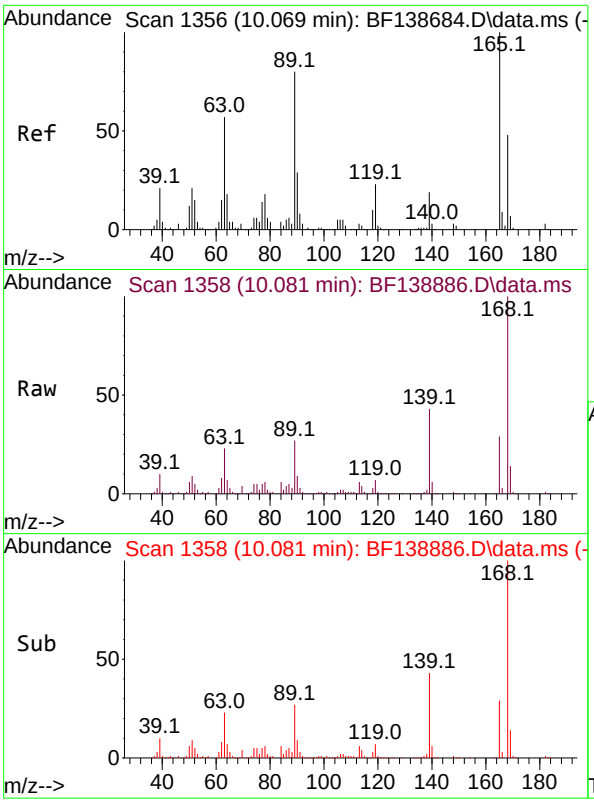



#56
4-Nitrophenol
Concen: 77.691 ng
RT: 10.028 min Scan# 1349
Delta R.T. 0.024 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:139 Resp: 94576

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 86.2 | 55.5 | 95.5 |
| 65 | 125.7 | 96.7 | 136.7 |

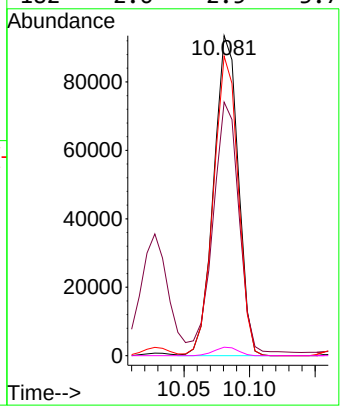





#57
2,4-Dinitrotoluene
Concen: 48.671 ng
RT: 10.081 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:165 Resp: 12159

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 79.3 | 46.3 | 69.5# |
| 89 | 93.6 | 64.2 | 96.4 |
| 182 | 2.6 | 2.5 | 3.7 |




**Instrument :**
BNA_F
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PB162489BS

**Manual Integrations**
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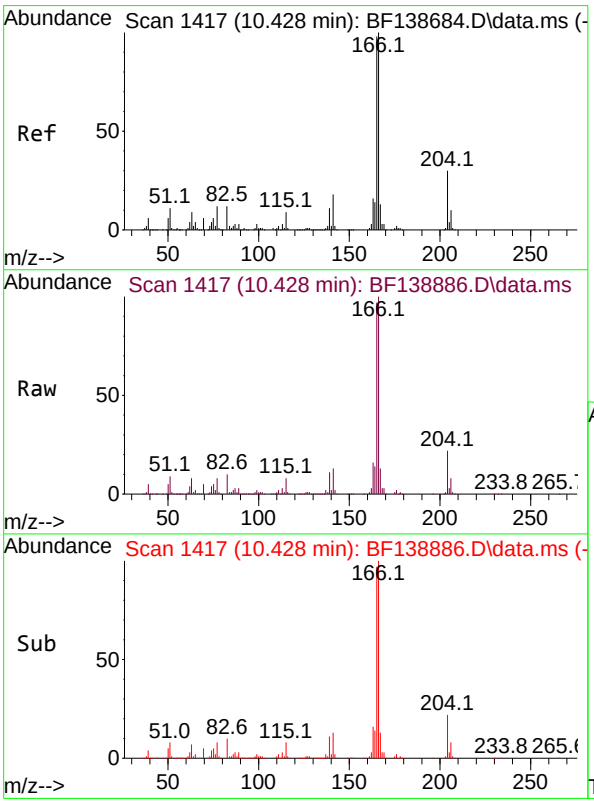
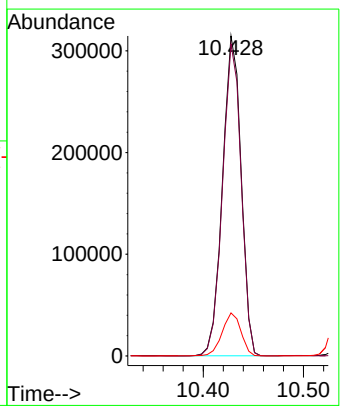
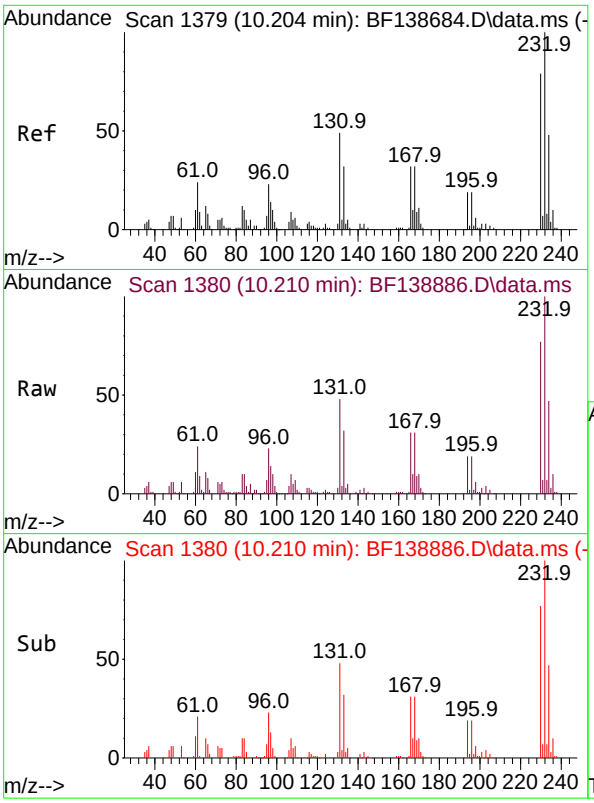



#58
Fluorene
Concen: 47.764 ng
RT: 10.428 min Scan# 1417
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:166 Resp: 404622

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 97.5 | 78.4 | 117.6 |
| 167 | 13.5 | 10.6 | 16.0 |

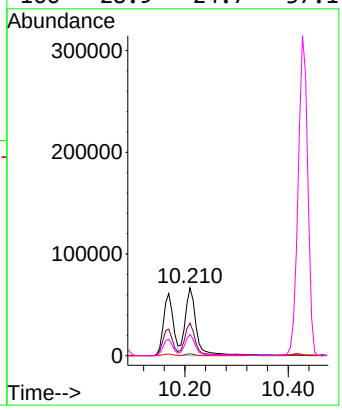





#59
2,3,4,6-Tetrachlorophenol
Concen: 51.065 ng
RT: 10.210 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:232 Resp: 9809

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 232 | 100 | | |
| 131 | 46.8 | 37.0 | 55.4 |
| 130 | 2.5 | 2.0 | 3.0 |
| 166 | 28.9 | 24.7 | 37.1 |




**Instrument :**
BNA_F
**ClientSampleId :**
PB162489BS

**Manual Integrations**
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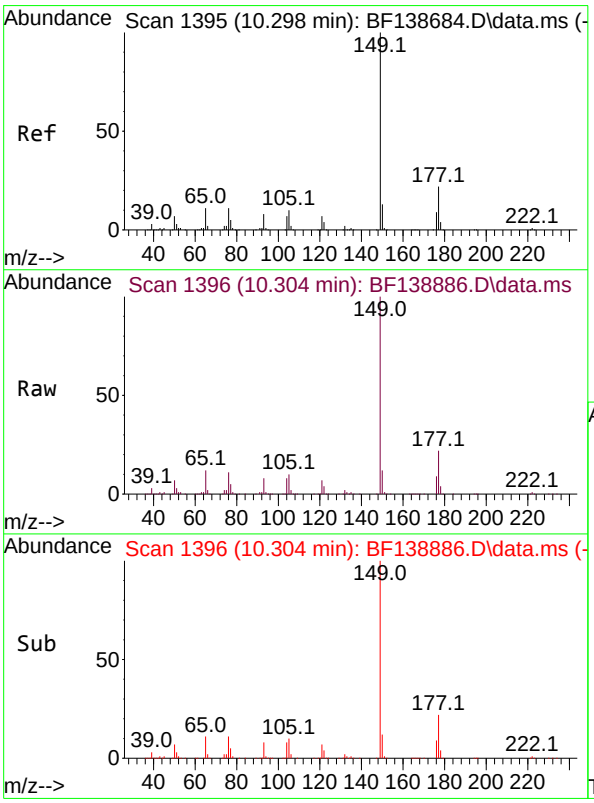
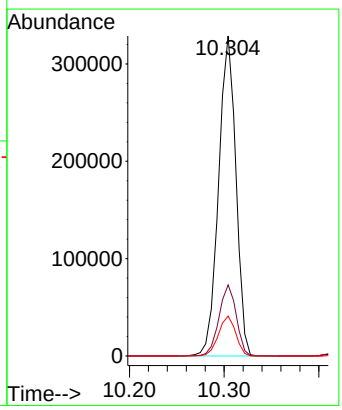
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

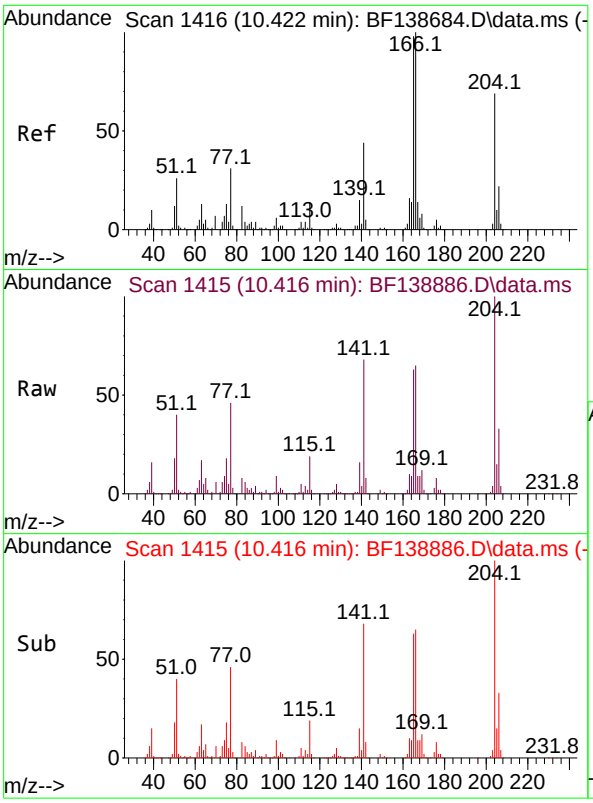



#60
Diethylphthalate
Concen: 50.872 ng
RT: 10.304 min Scan# 1396
Delta R.T. 0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:149 Resp: 418528

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 177 | 22.2 | 17.8 | 26.8 |
| 150 | 12.5 | 10.1 | 15.1 |






#61
4-Chlorophenyl-phenylether
Concen: 47.424 ng
RT: 10.416 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:204 Resp: 19758

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 204 | 100 | | |
| 206 | 33.3 | 26.1 | 39.1 |
| 141 | 68.1 | 51.4 | 77.0 |

**Instrument :**
BNA_F
**ClientSampleId :**
PB162489BS

**Manual Integrations**
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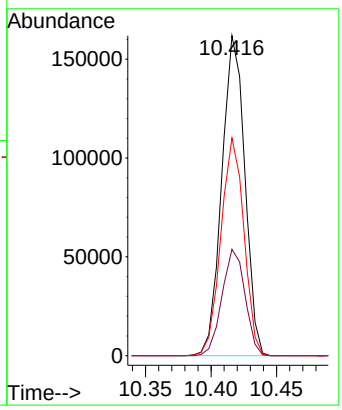
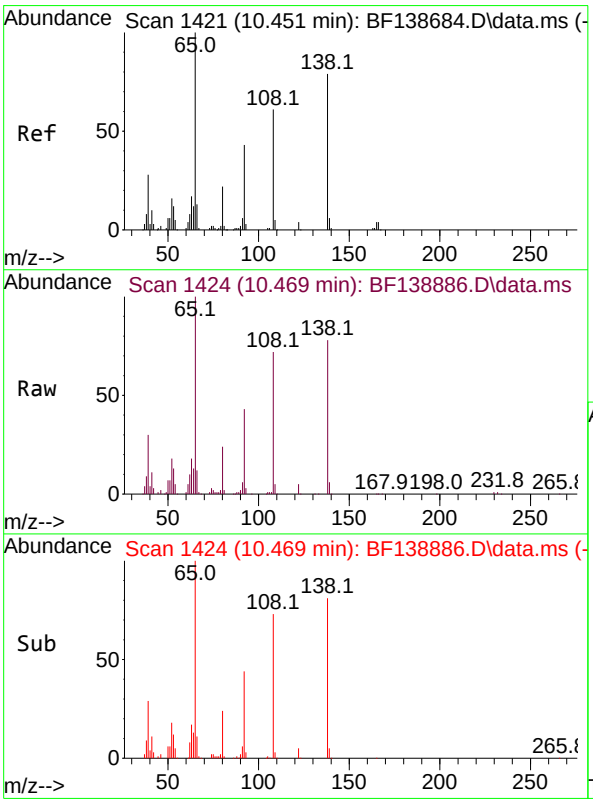
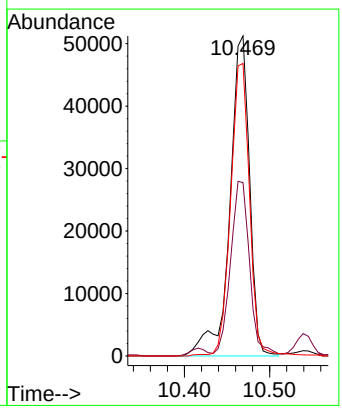


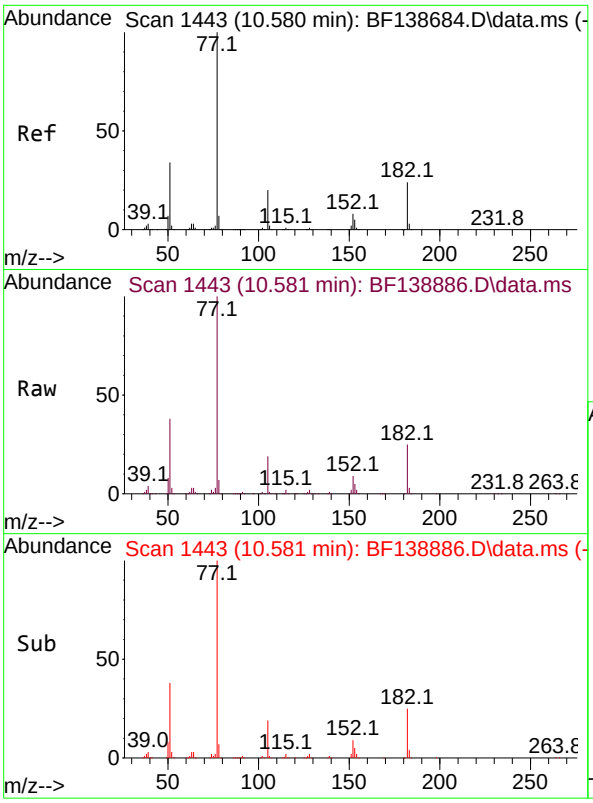




#62
4-Nitroaniline
Concen: 42.815 ng
RT: 10.469 min Scan# 1424
Delta R.T. 0.018 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:138 Resp: 82366

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 54.2 | 34.2 | 74.2 |
| 108 | 91.4 | 56.2 | 96.2 |

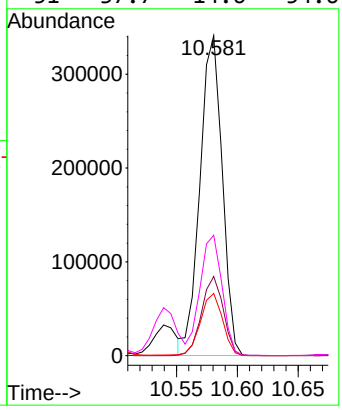





#63
Azobenzene
Concen: 47.562 ng
RT: 10.581 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion: 77 Resp: 43398

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 182 | 24.7 | 3.4 | 43.4 |
| 105 | 19.5 | 0.2 | 40.2 |
| 51 | 37.7 | 14.6 | 54.6 |




**Instrument :**
BNA_F
**ClientSampleId :**
PB162489BS

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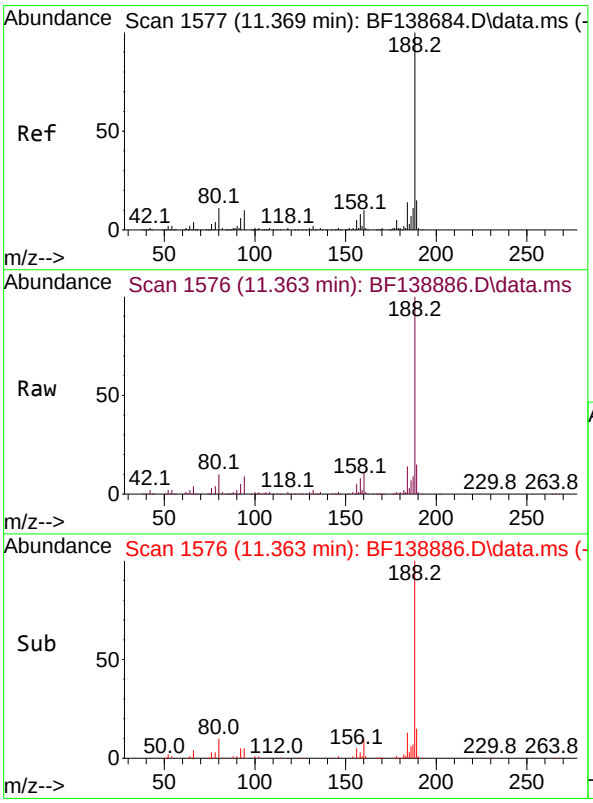
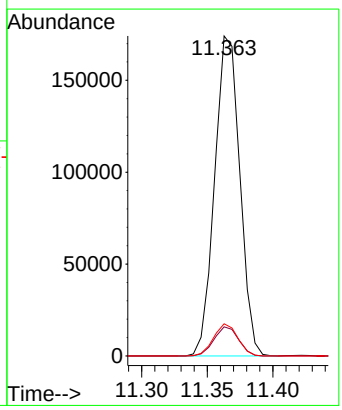
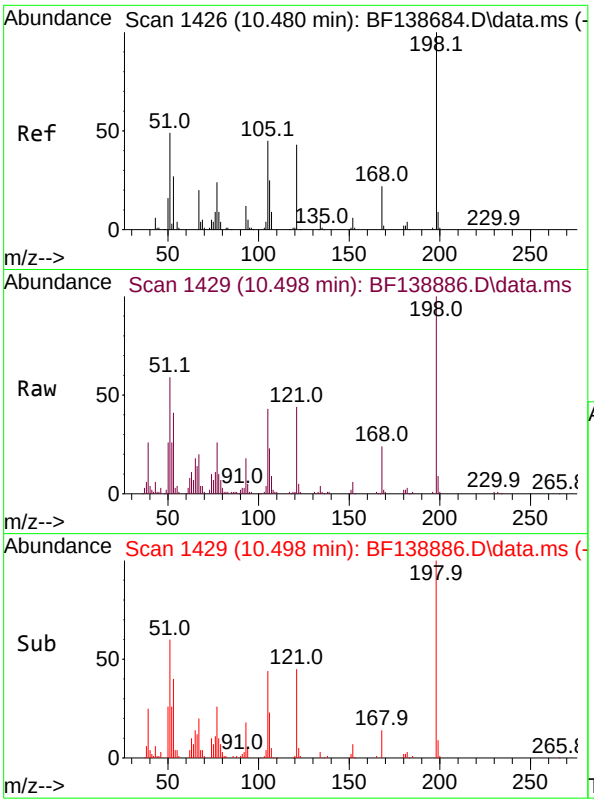



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.363 min Scan# 1576
Delta R.T. -0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:188 Resp: 232367

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 9.1 | 7.6 | 11.4 |
| 80 | 10.0 | 8.6 | 12.8 |






#65
4,6-Dinitro-2-methylphenol
Concen: 48.522 ng
RT: 10.498 min Scan# 14
Delta R.T. 0.018 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:198 Resp: 6878

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 58.8 | 39.9 | 79.9 |
| 105 | 43.1 | 26.1 | 66.1 |

**Instrument :**
BNA_F
**ClientSampleId :**
PB162489BS

**Manual Integrations**
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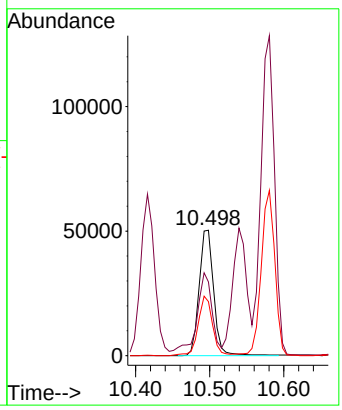
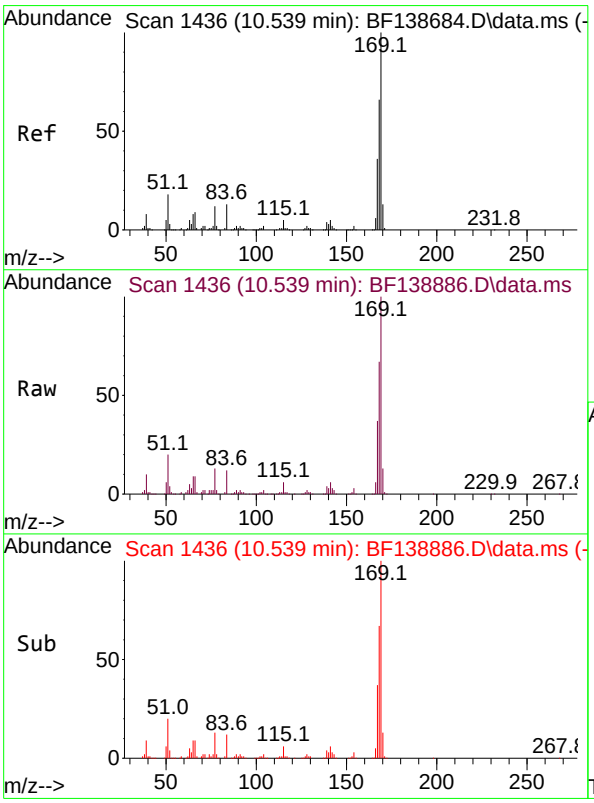
Supervised By :mohammad ahmed 08/12/2024

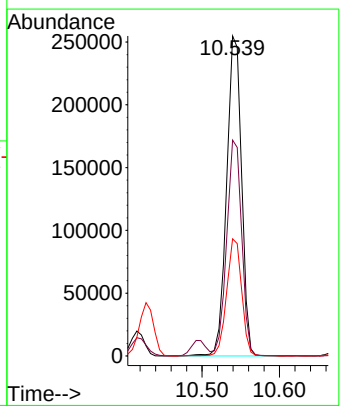


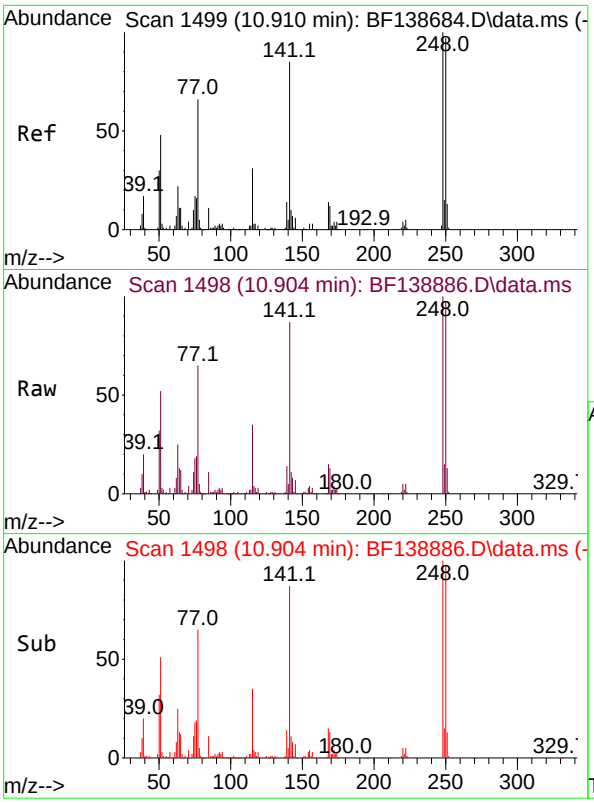




#66
n-Nitrosodiphenylamine
Concen: 47.026 ng
RT: 10.539 min Scan# 1436
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:169 Resp: 341567

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 67.4 | 53.0 | 79.6 |
| 167 | 36.6 | 29.0 | 43.6 |






#67
4-Bromophenyl-phenylether
Concen: 46.952 ng
RT: 10.904 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:248 Resp: 11812

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 97.2 | 77.7 | 116.5 |
| 141 | 87.3 | 68.0 | 102.0 |

**Instrument :**
BNA_F
**ClientSampleId :**
PB162489BS

**Manual Integrations APPROVED**

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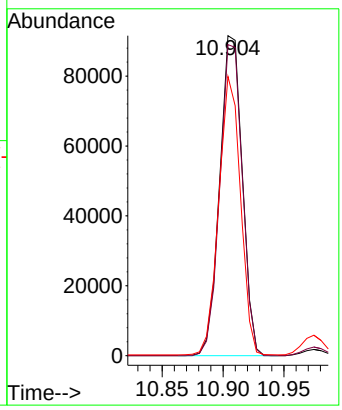
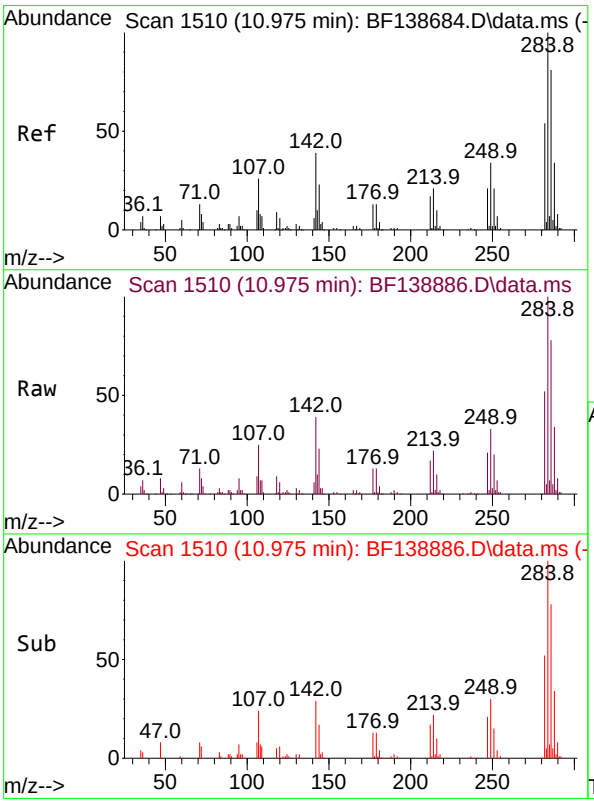
Supervised By :mohammad ahmed 08/12/2024

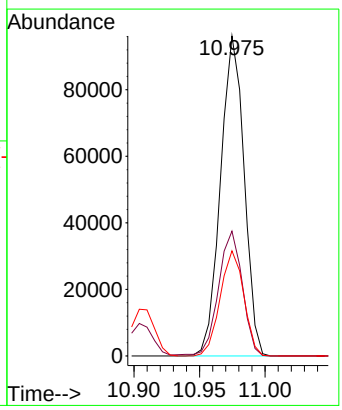


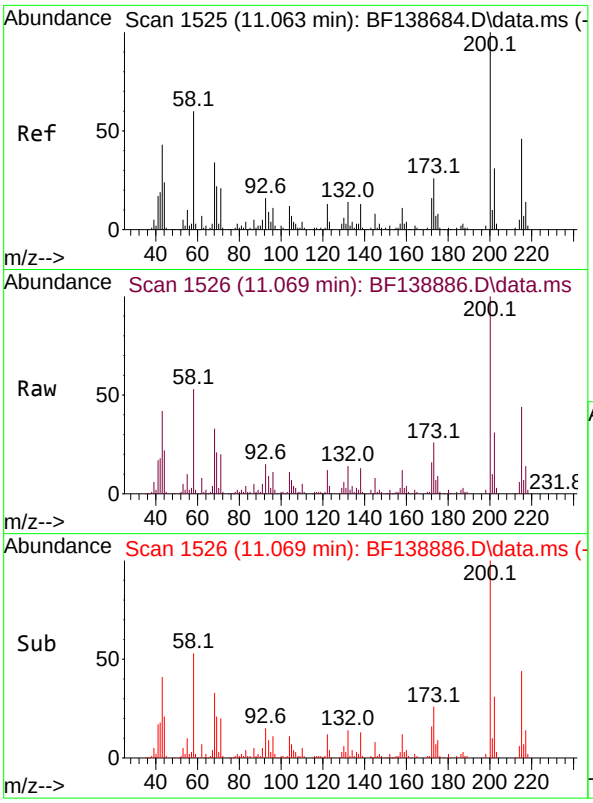




#68
Hexachlorobenzene
Concen: 46.353 ng
RT: 10.975 min Scan# 1510
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:284 Resp: 120407

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 39.0 | 31.3 | 46.9 |
| 249 | 32.8 | 27.2 | 40.8 |

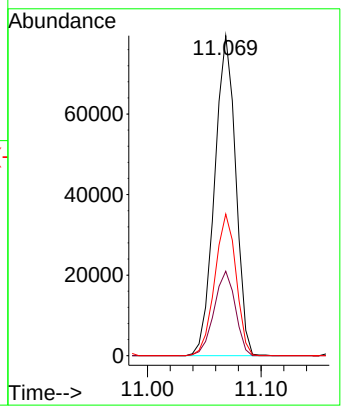





#69
Atrazine
Concen: 54.788 ng
RT: 11.069 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:200 Resp: 10266

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 26.4 | 6.0 | 46.0 |
| 215 | 44.2 | 26.1 | 66.1 |




**Instrument :**
BNA_F
**ClientSampleId :**
PB162489BS

**Manual Integrations**
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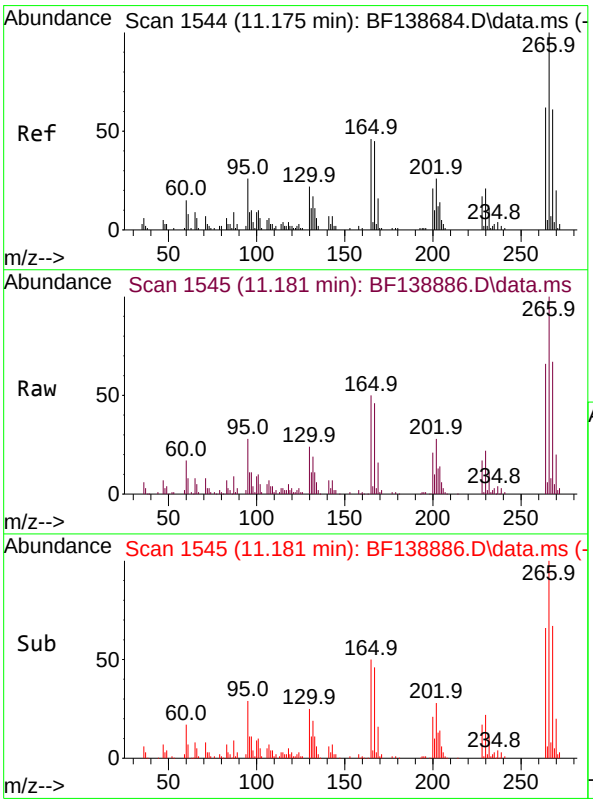
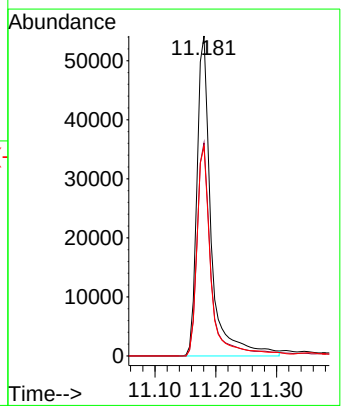
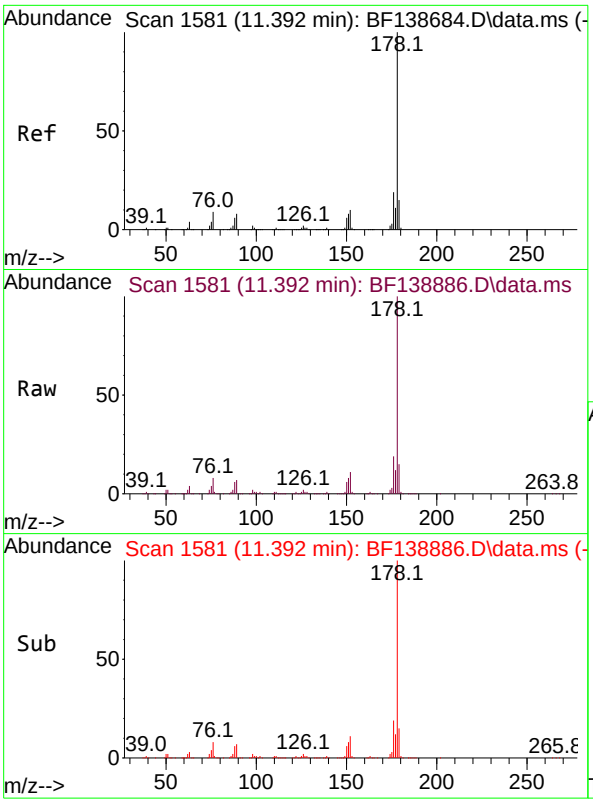



#70
Pentachlorophenol
Concen: 75.124 ng
RT: 11.181 min Scan# 1545
Delta R.T. 0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:266 Resp: 87959

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 268 | 66.6 | 49.2 | 73.8 |
| 264 | 65.5 | 49.8 | 74.6 |

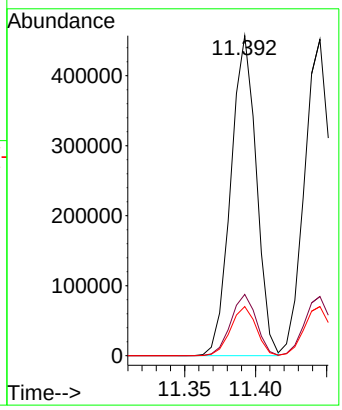





#71
Phenanthrene
Concen: 47.817 ng
RT: 11.392 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:178 Resp: 57213

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.1 | 15.4 | 23.0 |
| 179 | 15.3 | 12.2 | 18.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
PB162489BS

**Manual Integrations**
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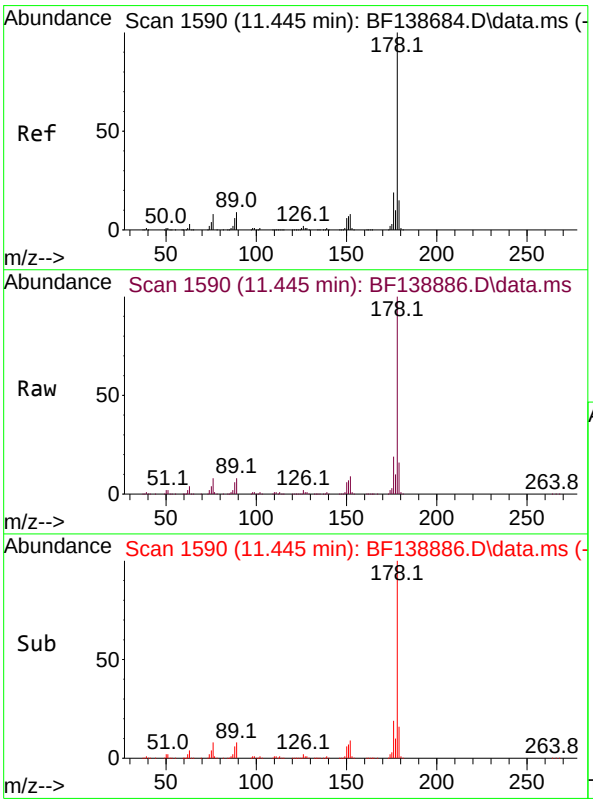
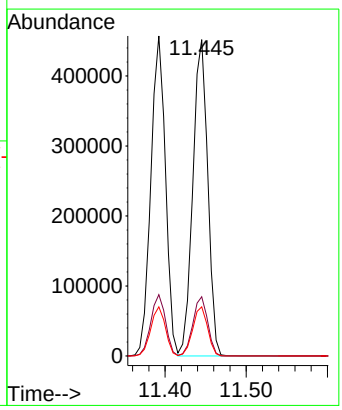
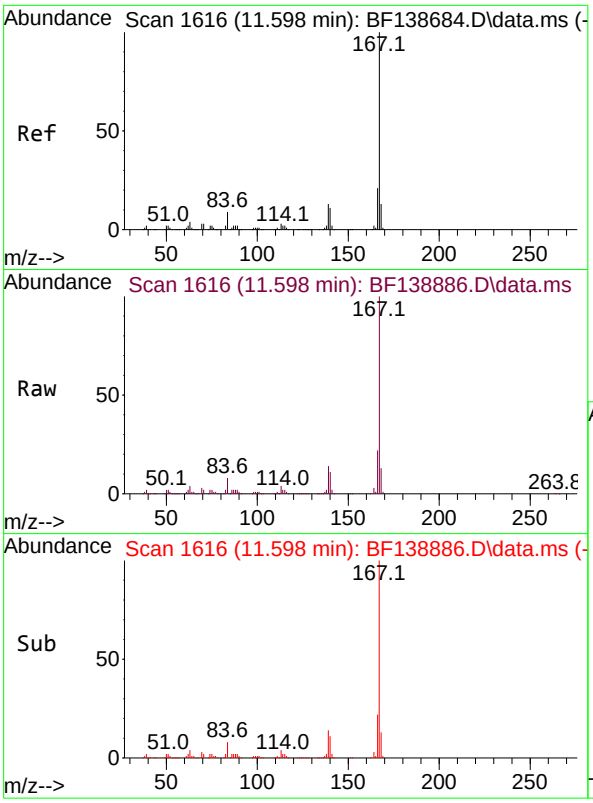



#72
Anthracene
Concen: 48.989 ng
RT: 11.445 min Scan# 1590
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:178 Resp: 577450

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.7 | 14.9 | 22.3 |
| 179 | 15.5 | 12.4 | 18.6 |

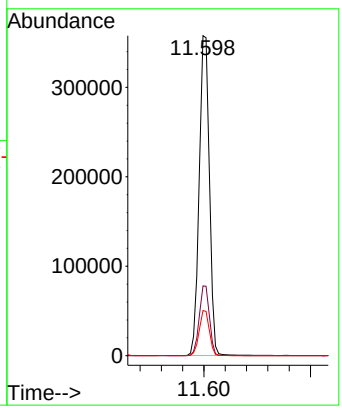





#73
Carbazole
Concen: 46.729 ng
RT: 11.598 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:167 Resp: 47520

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 21.8 | 17.2 | 25.8 |
| 139 | 14.1 | 10.6 | 16.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
PB162489BS

**Manual Integrations**
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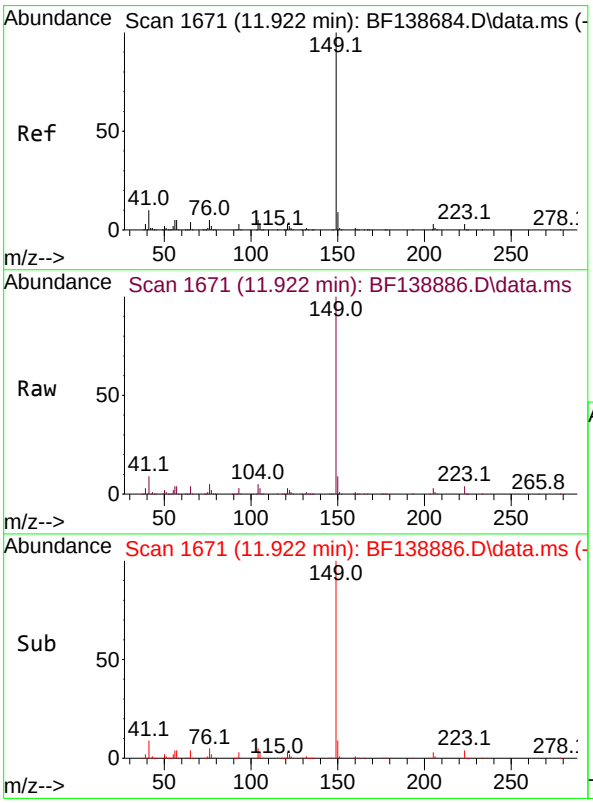
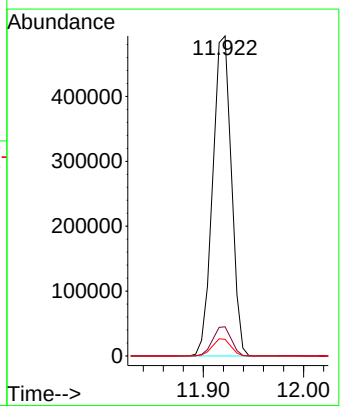
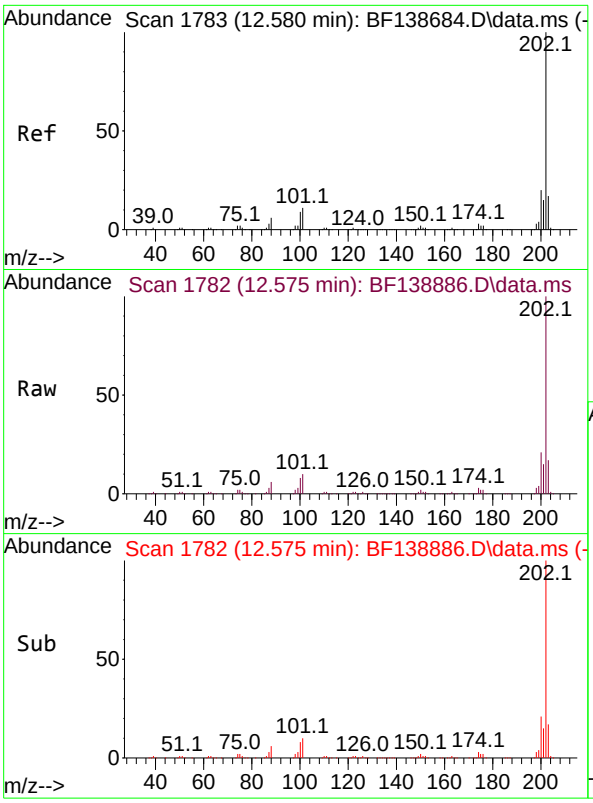



#74
Di-n-butylphthalate
Concen: 55.806 ng
RT: 11.922 min Scan# 1671
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:149 Resp: 637976

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 9.1 | 7.4 | 11.0 |
| 104 | 5.2 | 4.1 | 6.1 |

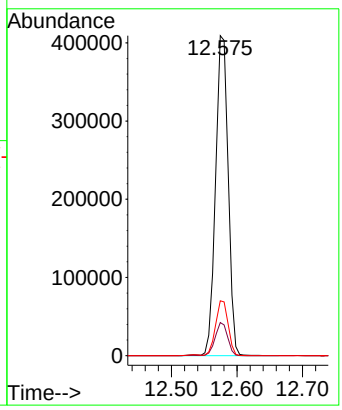





#75
Fluoranthene
Concen: 48.844 ng
RT: 12.575 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:202 Resp: 54559

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 10.3 | 0.0 | 31.2 |
| 203 | 17.1 | 0.0 | 37.3 |




**Instrument :**
BNA_F
**ClientSampleId :**
PB162489BS

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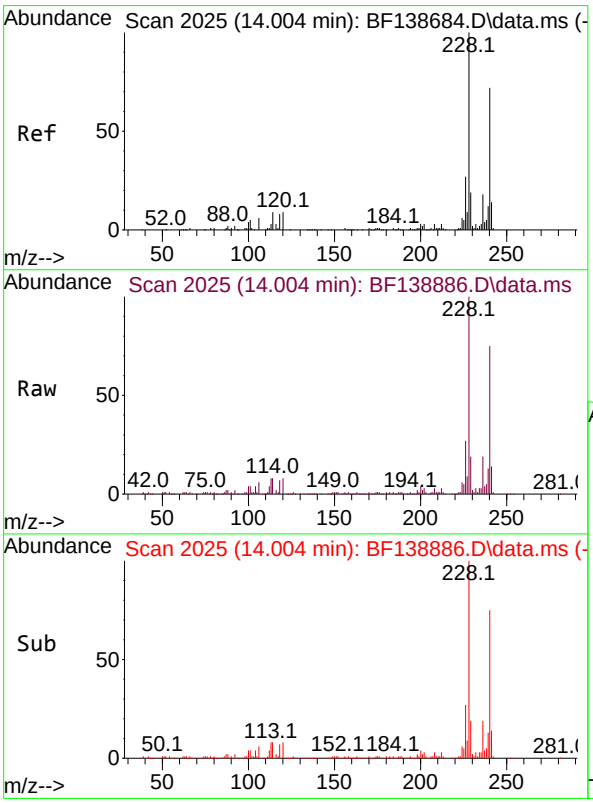
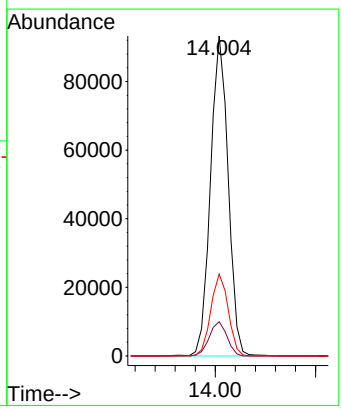
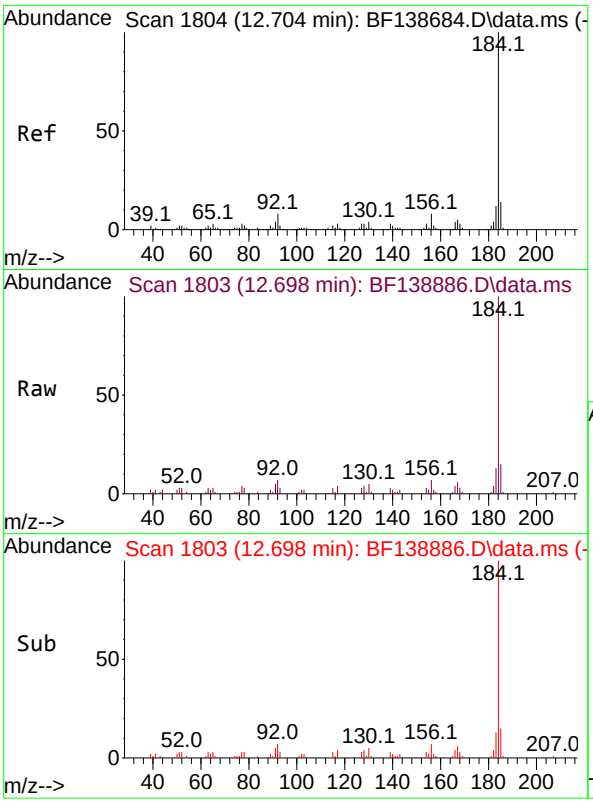



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.004 min Scan# 2025
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:240 Resp: 113862

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 10.7 | 10.2 | 15.4 |
| 236 | 25.6 | 19.8 | 29.8 |

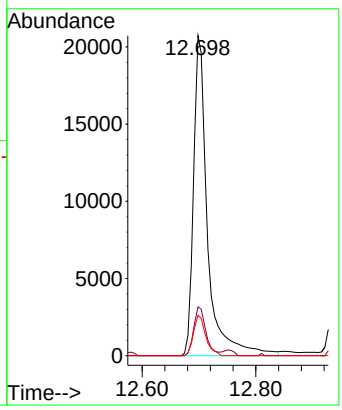





#77
Benzidine
Concen: 13.101 ng
RT: 12.698 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:184 Resp: 3567

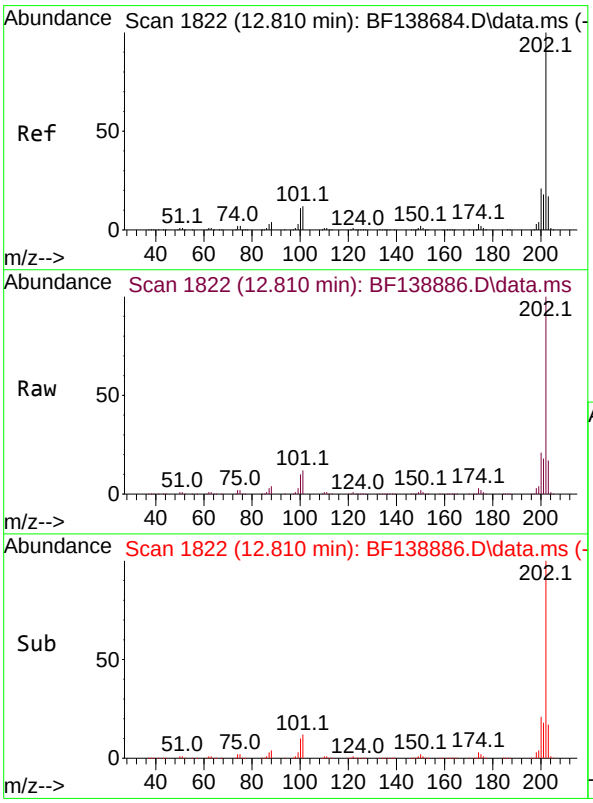
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 185 | 15.3 | 11.1 | 16.7 |
| 183 | 12.6 | 9.6 | 14.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
PB162489BS

**Manual Integrations**
**APPROVED**

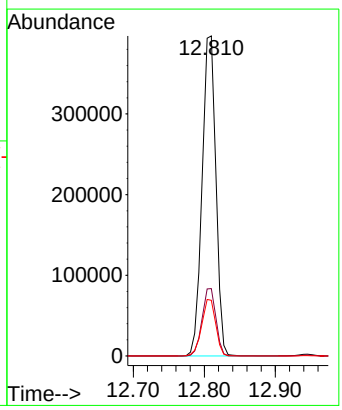
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

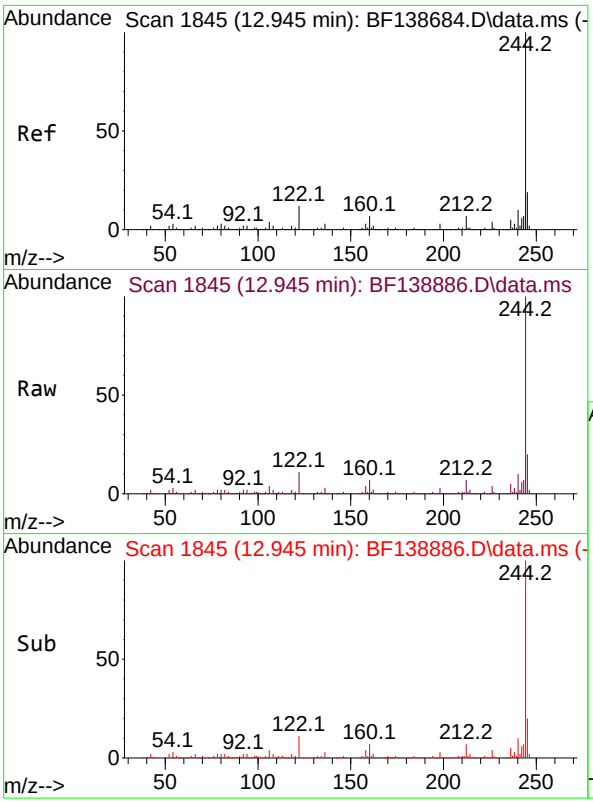



#78
Pyrene
Concen: 50.108 ng
RT: 12.810 min Scan# 1822
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:202 Resp: 537177

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.1 | 16.8 | 25.2 |
| 203 | 17.4 | 13.8 | 20.6 |

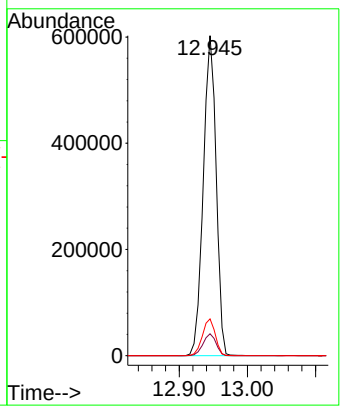





#79
Terphenyl-d14
Concen: 116.392 ng
RT: 12.945 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:244 Resp: 79154

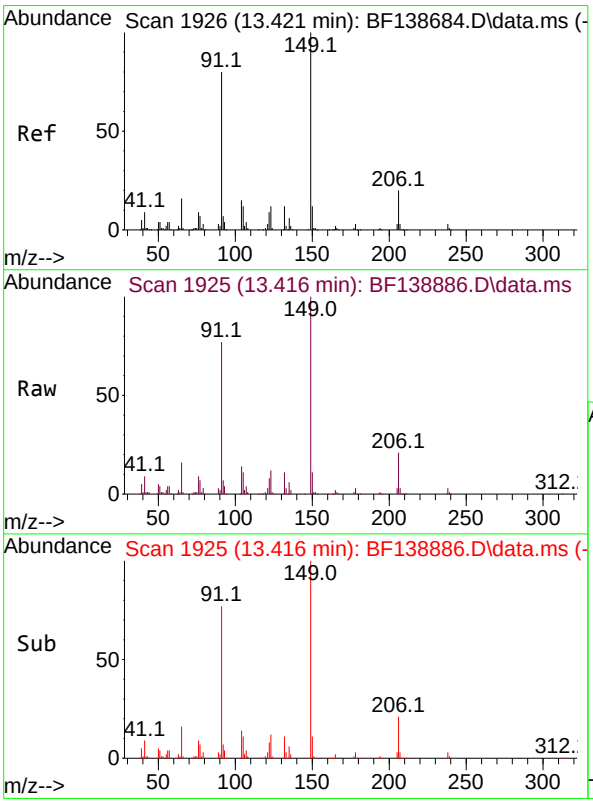
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 6.9 | 5.4 | 8.2 |
| 122 | 11.5 | 9.6 | 14.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
PB162489BS

**Manual Integrations**
**APPROVED**

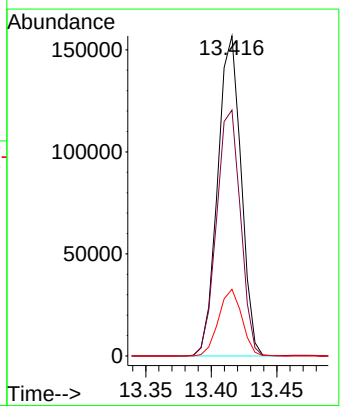
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

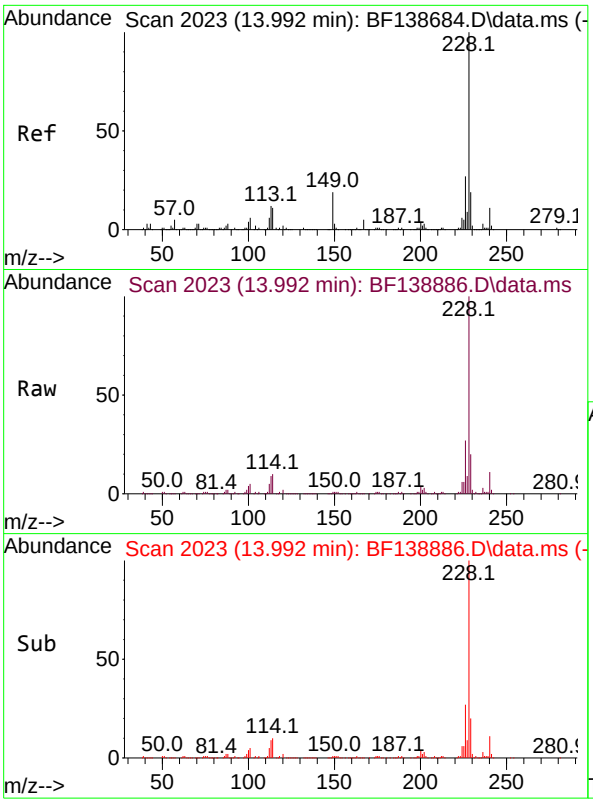



#80
Butylbenzylphthalate
Concen: 56.722 ng
RT: 13.416 min Scan# 1925
Delta R.T. -0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:149 Resp: 194726

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 91 | 76.8 | 63.7 | 95.5 |
| 206 | 20.8 | 16.2 | 24.2 |

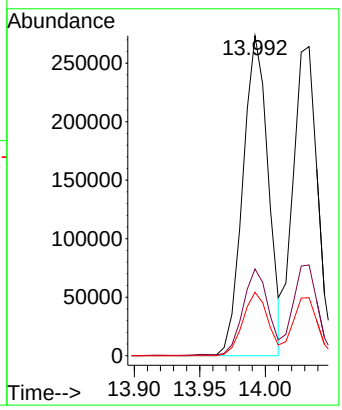





#81
Benzo(a)anthracene
Concen: 46.931 ng
RT: 13.992 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:228 Resp: 36797

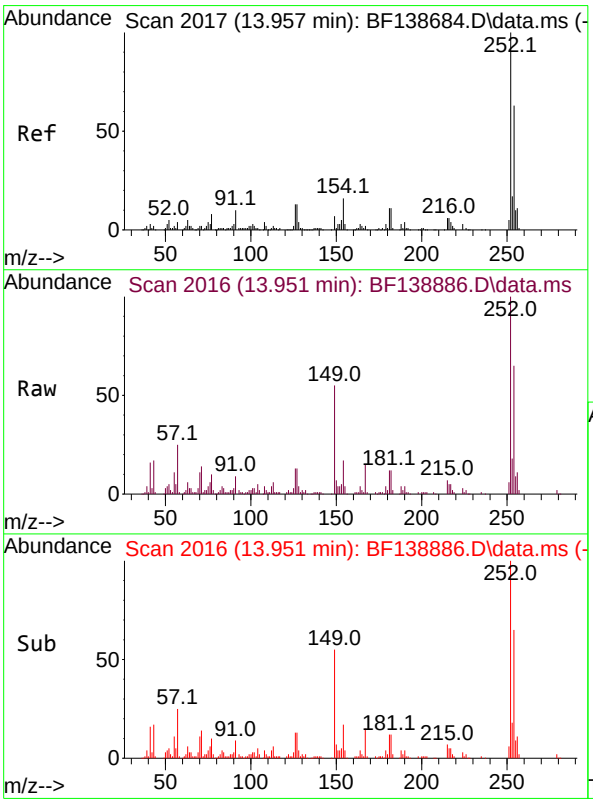
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.1 | 22.1 | 33.1 |
| 229 | 19.8 | 15.4 | 23.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
PB162489BS

**Manual Integrations**
**APPROVED**

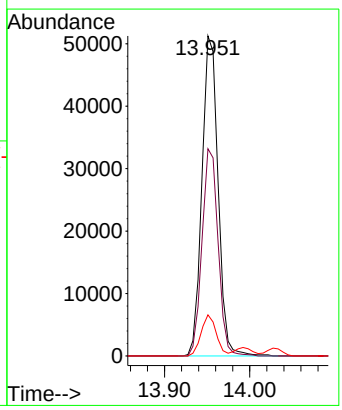
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

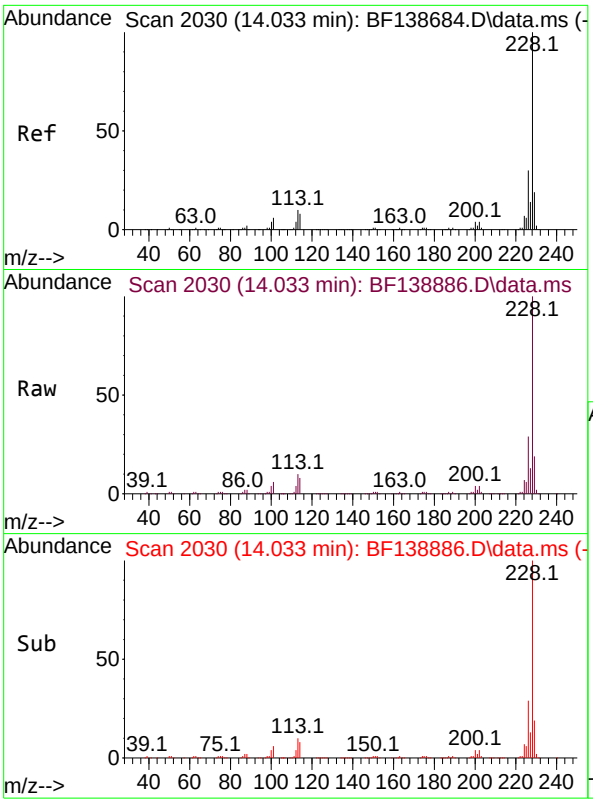



#82
3,3'-Dichlorobenzidine
Concen: 33.568 ng
RT: 13.951 min Scan# 2016
Delta R.T. -0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:252 Resp: 67353

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 64.8 | 50.8 | 76.2 |
| 126 | 12.8 | 10.2 | 15.2 |

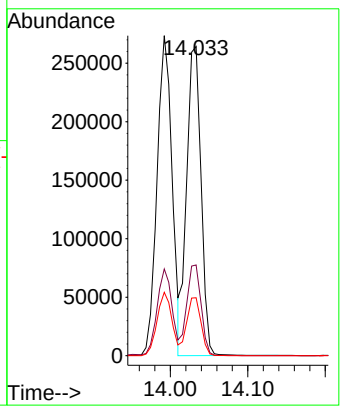





#83
Chrysene
Concen: 48.235 ng
RT: 14.033 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:228 Resp: 34121

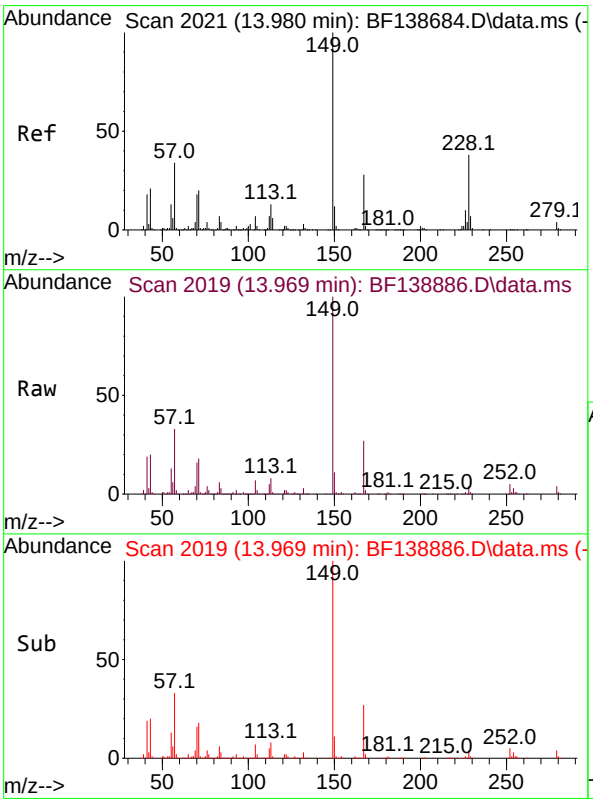
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.4 | 23.7 | 35.5 |
| 229 | 18.8 | 15.0 | 22.6 |




**Instrument :**
BNA_F
**ClientSampleId :**
PB162489BS

**Manual Integrations**
**APPROVED**

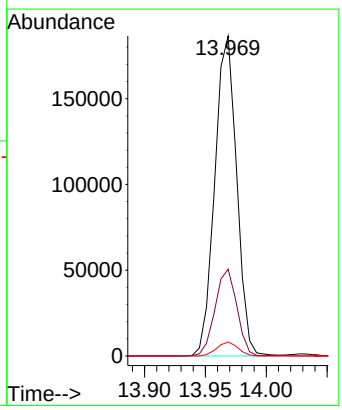
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

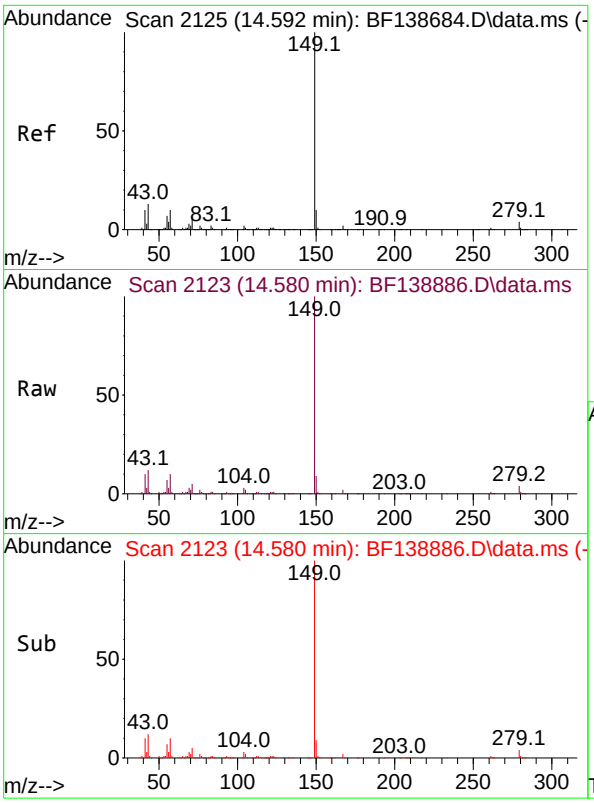



#84
Bis(2-ethylhexyl)phthalate
Concen: 46.482 ng
RT: 13.969 min Scan# 2019
Delta R.T. -0.012 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:149 Resp: 233665

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 27.1 | 22.2 | 33.4 |
| 279 | 4.4 | 3.4 | 5.0 |

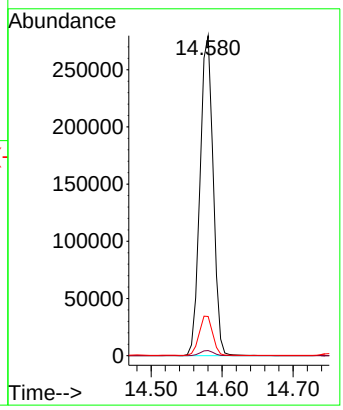





#85
Di-n-octyl phthalate
Concen: 38.907 ng
RT: 14.580 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:149 Resp: 36186

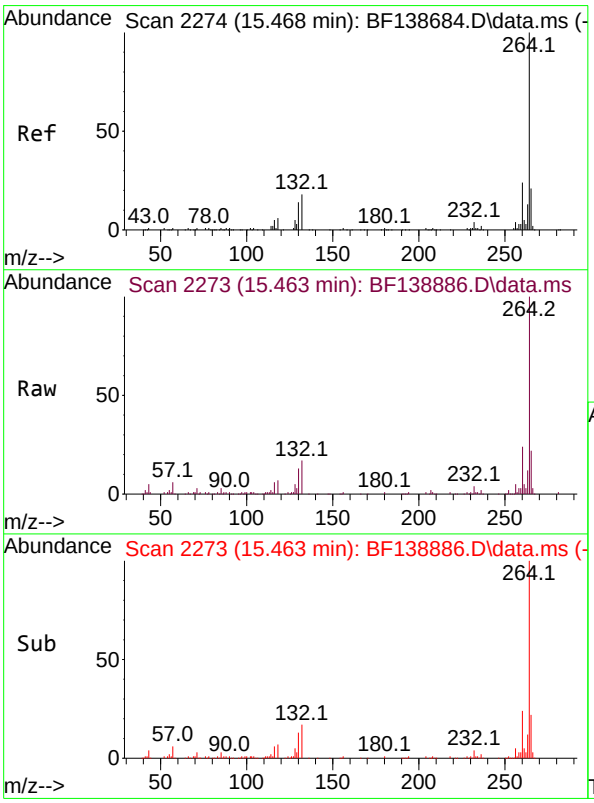
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 1.7 | 1.4 | 2.0 |
| 43 | 12.6 | 10.4 | 15.6 |




**Instrument :**
BNA_F
**ClientSampleId :**
PB162489BS

**Manual Integrations**
**APPROVED**

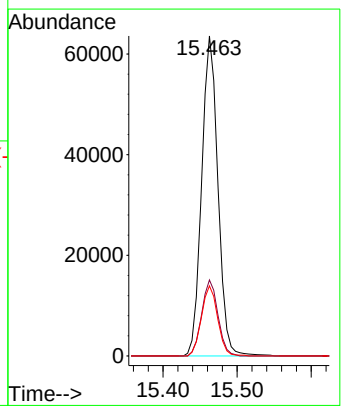
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

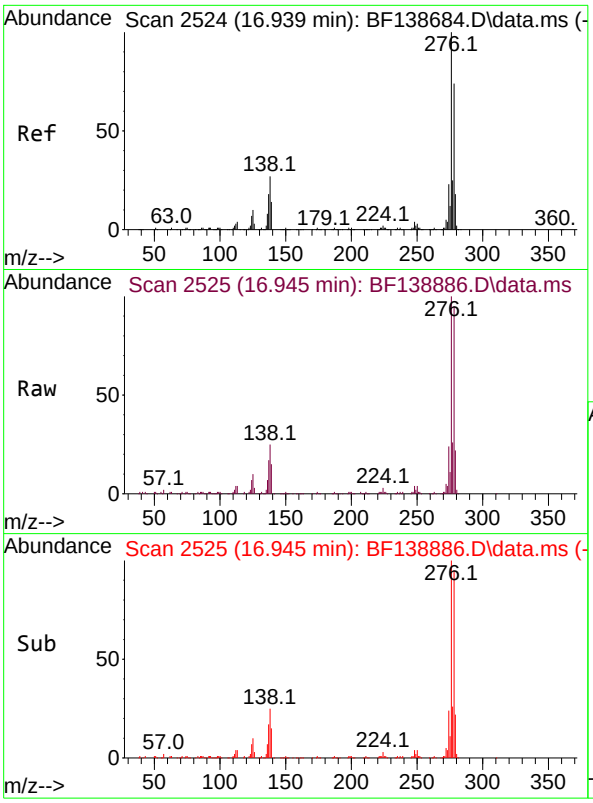



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.463 min Scan# 2273
Delta R.T. -0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:264 Resp: 96864

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.7 | 19.0 | 28.6 |
| 265 | 21.9 | 17.0 | 25.6 |

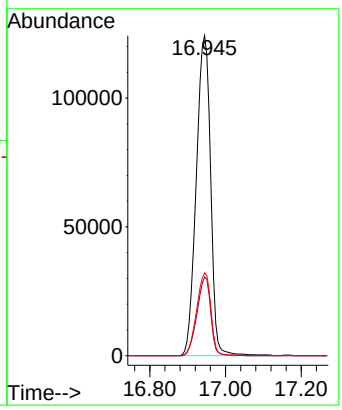





#87
Indeno(1,2,3-cd)pyrene
Concen: 47.180 ng
RT: 16.945 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:276 Resp: 32750

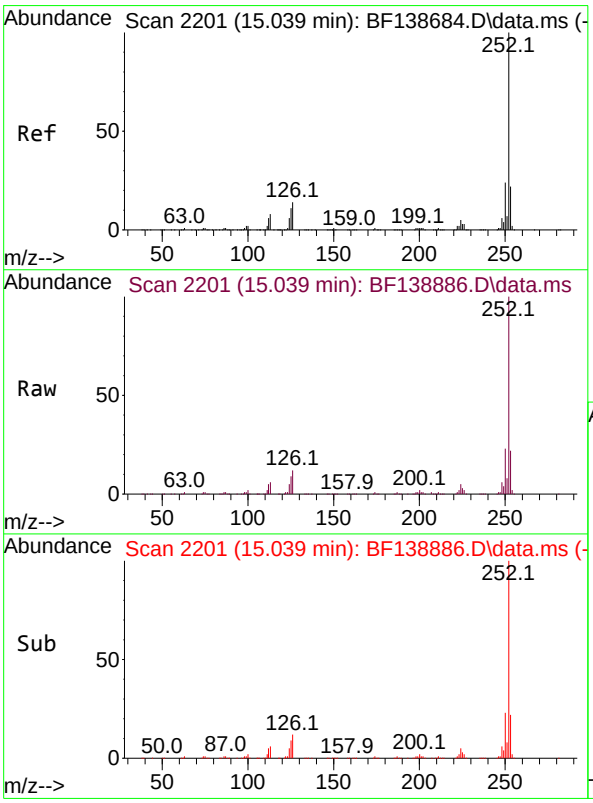
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 23.4 | 21.8 | 32.8 |
| 277 | 25.5 | 20.6 | 30.8 |




**Instrument :**
BNA_F
**ClientSampleId :**
PB162489BS

**Manual Integrations**
**APPROVED**

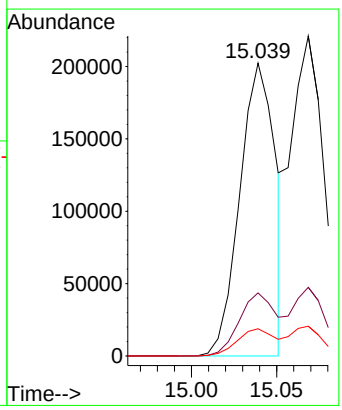
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

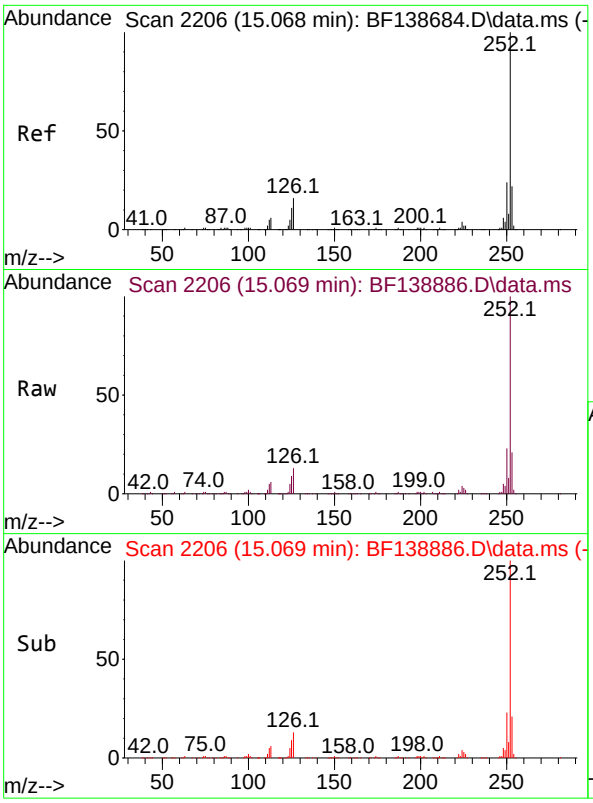



#88
Benzo(b)fluoranthene
Concen: 48.734 ng
RT: 15.039 min Scan# 2201
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:252 Resp: 292630

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.6 | 17.5 | 26.3 |
| 125 | 9.3 | 8.9 | 13.3 |

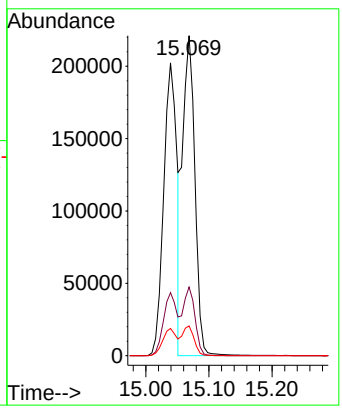





#89
Benzo(k)fluoranthene
Concen: 57.454 ng
RT: 15.069 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:252 Resp: 29869

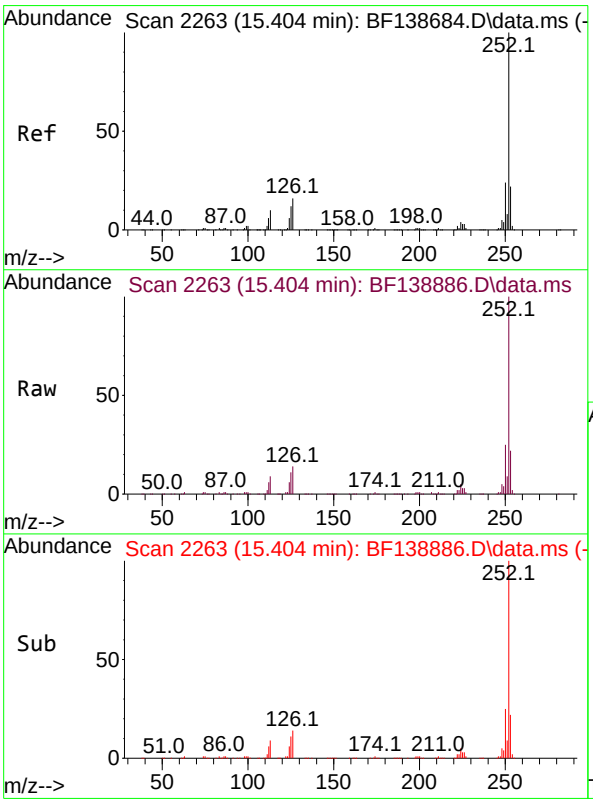
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.5 | 17.4 | 26.0 |
| 125 | 9.3 | 8.6 | 13.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
PB162489BS

**Manual Integrations**
**APPROVED**

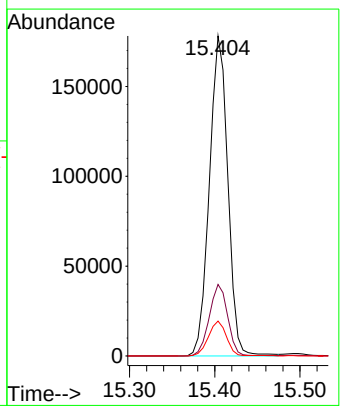
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024

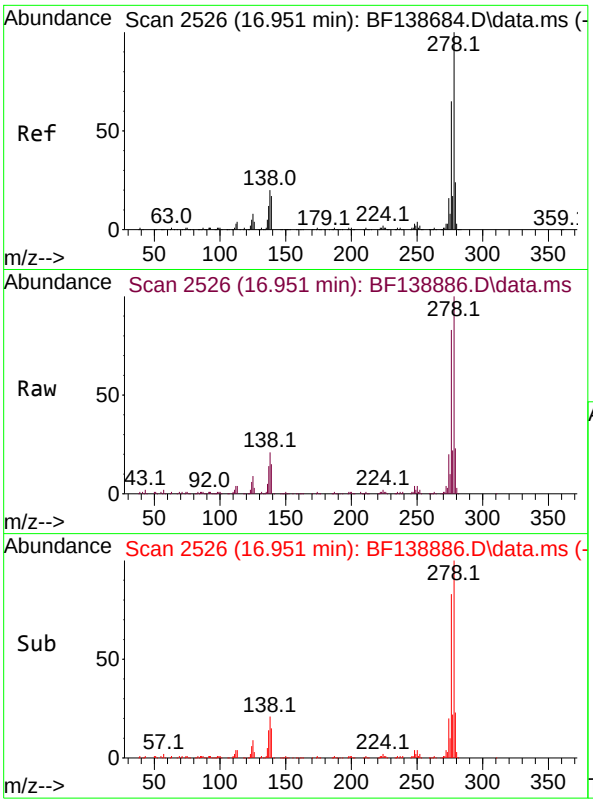



#90
Benzo(a)pyrene
Concen: 53.042 ng
RT: 15.404 min Scan# 2263
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:252 Resp: 267903

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.4 | 17.3 | 25.9 |
| 125 | 10.9 | 9.5 | 14.3 |

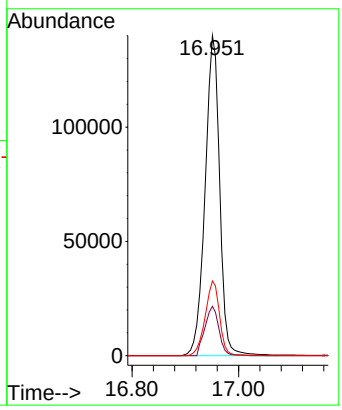





#91
Dibenzo(a,h)anthracene
Concen: 46.690 ng
RT: 16.951 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:278 Resp: 26604

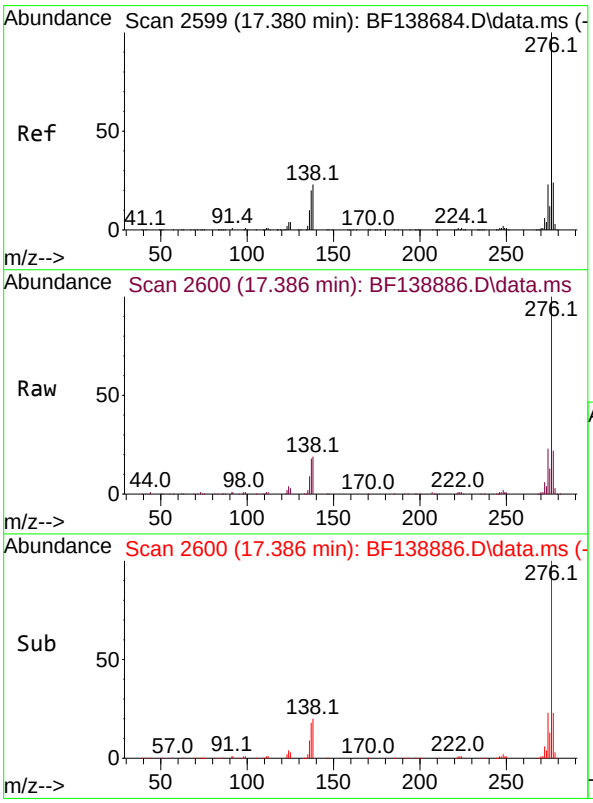
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 15.4 | 14.0 | 21.0 |
| 279 | 23.4 | 19.0 | 28.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
PB162489BS

**Manual Integrations**
**APPROVED**

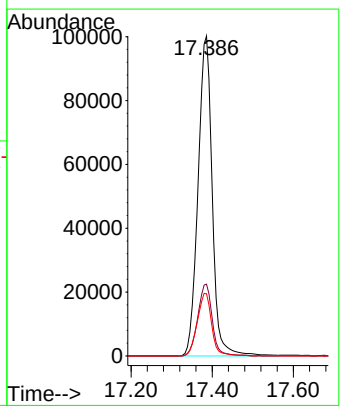
Reviewed By :Yogesh Patel 08/10/2024
Supervised By :mohammad ahmed 08/12/2024




#92
Benzo(g,h,i)perylene
Concen: 41.158 ng
RT: 17.386 min Scan# 2600
Delta R.T. 0.006 min
Lab File: BF138886.D
Acq: 09 Aug 2024 13:25

Tgt Ion:276 Resp: 243369

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 22.5 | 19.0 | 28.4 |
| 138 | 19.5 | 18.5 | 27.7 |



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JACOBS Engineering Group, Inc. | Date Collected: | 08/02/24 |
| Project: | Former Schlumberger Site Princeton NJ | Date Received: | 08/02/24 |
| Client Sample ID: | 924-K1-WP0-0.25-080224MS | SDG No.: | P3457 |
| Lab Sample ID: | P3466-02MS | Matrix: | Water |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 980 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOCMS Group6 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF139004.D | 1 | 08/05/24 08:25 | 08/14/24 20:16 | PB162489 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 110-86-1 | Pyridine | 16.2 | | 1.60 | 5.10 | ug/L |
| 100-52-7 | Benzaldehyde | 4.10 | U | 4.10 | 10.2 | ug/L |
| 95-48-7 | 2-Methylphenol | 35.8 | | 1.20 | 5.10 | ug/L |
| 65794-96-9 | 3+4-Methylphenols | 32.7 | | 1.20 | 10.2 | ug/L |
| 67-72-1 | Hexachloroethane | 40.8 | | 1.00 | 5.10 | ug/L |
| 98-95-3 | Nitrobenzene | 54.7 | | 1.30 | 5.10 | ug/L |
| 91-20-3 | Naphthalene | 49.4 | | 1.00 | 5.10 | ug/L |
| 87-68-3 | Hexachlorobutadiene | 50.5 | | 1.30 | 5.10 | ug/L |
| 91-57-6 | 2-Methylnaphthalene | 48.5 | | 1.20 | 5.10 | ug/L |
| 88-06-2 | 2,4,6-Trichlorophenol | 56.6 | | 0.91 | 5.10 | ug/L |
| 95-95-4 | 2,4,5-Trichlorophenol | 53.2 | | 1.00 | 5.10 | ug/L |
| 208-96-8 | Acenaphthylene | 57.6 | | 1.10 | 5.10 | ug/L |
| 83-32-9 | Acenaphthene | 52.9 | | 0.83 | 5.10 | ug/L |
| 132-64-9 | Dibenzofuran | 56.6 | | 0.95 | 5.10 | ug/L |
| 121-14-2 | 2,4-Dinitrotoluene | 59.6 | | 1.60 | 5.10 | ug/L |
| 86-73-7 | Fluorene | 57.0 | | 0.98 | 5.10 | ug/L |
| 118-74-1 | Hexachlorobenzene | 49.6 | | 1.20 | 5.10 | ug/L |
| 87-86-5 | Pentachlorophenol | 92.4 | E | 1.90 | 10.2 | ug/L |
| 85-01-8 | Phenanthrene | 56.1 | | 0.91 | 5.10 | ug/L |
| 120-12-7 | Anthracene | 58.4 | | 1.10 | 5.10 | ug/L |
| 86-74-8 | Carbazole | 61.8 | | 1.20 | 5.10 | ug/L |
| 84-74-2 | Di-n-butylphthalate | 63.6 | | 1.50 | 5.10 | ug/L |
| 206-44-0 | Fluoranthene | 67.2 | | 1.30 | 5.10 | ug/L |
| 129-00-0 | Pyrene | 54.2 | | 1.10 | 5.10 | ug/L |
| 56-55-3 | Benzo(a)anthracene | 56.3 | | 0.96 | 5.10 | ug/L |
| 218-01-9 | Chrysene | 53.6 | | 0.88 | 5.10 | ug/L |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 61.7 | | 1.90 | 5.10 | ug/L |
| 205-99-2 | Benzo(b)fluoranthene | 57.9 | | 1.20 | 5.10 | ug/L |
| 207-08-9 | Benzo(k)fluoranthene | 61.7 | | 1.20 | 5.10 | ug/L |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JACOBS Engineering Group, Inc. | Date Collected: | 08/02/24 |
| Project: | Former Schlumberger Site Princeton NJ | Date Received: | 08/02/24 |
| Client Sample ID: | 924-K1-WP0-0.25-080224MS | SDG No.: | P3457 |
| Lab Sample ID: | P3466-02MS | Matrix: | Water |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 980 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOCMS Group6 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF139004.D | 1 | 08/05/24 08:25 | 08/14/24 20:16 | PB162489 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 50-32-8 | Benzo(a)pyrene | 58.3 | | 1.70 | 5.10 | ug/L |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 46.7 | | 1.00 | 5.10 | ug/L |
| 53-70-3 | Dibenzo(a,h)anthracene | 46.6 | | 1.20 | 5.10 | ug/L |
| 191-24-2 | Benzo(g,h,i)perylene | 42.5 | | 1.20 | 5.10 | ug/L |
| 123-91-1 | 1,4-Dioxane | 23.5 | | 1.30 | 5.10 | ug/L |
| 90-12-0 | 1-Methylnaphthalene | 44.8 | | 0.88 | 5.10 | ug/L |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 77.1 | | 15 (10) - 110 (139) | 51% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 45.0 | | 15 (10) - 110 (134) | 30% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 104 | | 30 (49) - 130 (133) | 104% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 103 | | 30 (52) - 130 (132) | 103% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 157 | | 15 (44) - 110 (137) | 105% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 115 | | 30 (48) - 130 (125) | 115% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 32200 | 6.834 | | | |
| 1146-65-2 | Naphthalene-d8 | 114000 | 8.116 | | | |
| 15067-26-2 | Acenaphthene-d10 | 51500 | 9.869 | | | |
| 1517-22-2 | Phenanthrene-d10 | 97200 | 11.357 | | | |
| 1719-03-5 | Chrysene-d12 | 61700 | 13.998 | | | |
| 1520-96-3 | Perylene-d12 | 47300 | 15.462 | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081424\
Data File : BF139004.D
Acq On : 14 Aug 2024 20:16
Operator : RC/JU
Sample : P3466-02MS
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 15 01:12:50 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MS

**Manual Integrations APPROVED**
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.834 | 152 | 32155 | 20.000 | ng | | -0.01 |
| 21) Naphthalene-d8 | 8.116 | 136 | 113510 | 20.000 | ng | | -0.01 |
| 39) Acenaphthene-d10 | 9.869 | 164 | 51515 | 20.000 | ng | | -0.01 |
| 64) Phenanthrene-d10 | 11.357 | 188 | 97165 | 20.000 | ng | | -0.01 |
| 76) Chrysene-d12 | 13.998 | 240 | 61682 | 20.000 | ng | | 0.00 |
| 86) Perylene-d12 | 15.462 | 264 | 47286 | 20.000 | ng | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.475 | 112 | 160599 | 77.098 | ng | | 0.00 |
| 7) Phenol-d6 | 6.487 | 99 | 125860 | 45.003 | ng | | 0.00 |
| 23) Nitrobenzene-d5 | 7.404 | 82 | 242476 | 104.440 | ng | | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.663 | 330 | 66212 | 156.909 | ng | | 0.00 |
| 45) 2-Fluorobiphenyl | 9.186 | 172 | 351717 | 102.583 | ng | | -0.02 |
| 79) Terphenyl-d14 | 12.939 | 244 | 421843 | 114.503 | ng | | 0.00 |
| **Target Compounds** | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.616 | 88 | 21000 | 23.027 | ng | # | 90 |
| 3) Pyridine | 3.393 | 79 | 35046 | 15.864 | ng | # | 91 |
| 4) n-Nitrosodimethylamine | 3.328 | 42 | 45113 | 34.287 | ng | | 81 |
| 6) Aniline | 6.504 | 93 | 55501 | 22.253 | ng | # | 73 |
| 8) 2-Chlorophenol | 6.634 | 128 | 98124 | 44.773 | ng | | 98 |
| 9) Benzaldehyde | 6.398 | 77 | 4597 | 2.742 | ng | | 95 |
| 10) Phenol | 6.498 | 94 | 52572 | 17.854 | ng | # | 62 |
| 11) bis(2-Chloroethyl)ether | 6.575 | 93 | 118877 | 52.462 | ng | | 98 |
| 12) 1,3-Dichlorobenzene | 6.775 | 146 | 104654 | 42.660 | ng | | 96 |
| 13) 1,4-Dichlorobenzene | 6.851 | 146 | 108298 | 43.743 | ng | | 98 |
| 14) 1,2-Dichlorobenzene | 7.004 | 146 | 102243 | 44.189 | ng | | 98 |
| 15) Benzyl Alcohol | 6.987 | 79 | 79848 | 39.613 | ng | | 96 |
| 16) 2,2'-oxybis(1-Chloropr... | 7.104 | 45 | 192367 | 49.329 | ng | | 73 |
| 17) 2-Methylphenol | 7.110 | 107 | 63541 | 35.111 | ng | # | 78 |
| 18) Hexachloroethane | 7.345 | 117 | 37259 | 39.980 | ng | | 96 |
| 19) n-Nitroso-di-n-propyla... | 7.251 | 70 | 90763 | 53.733 | ng | | 98 |
| 20) 3+4-Methylphenols | 7.263 | 107 | 74356 | 32.023 | ng | # | 69 |
| 22) Acetophenone | 7.245 | 105 | 152042 | 54.705 | ng | | 95 |
| 24) Nitrobenzene | 7.422 | 77 | 126711 | 53.635 | ng | | 98 |
| 25) Isophorone | 7.663 | 82 | 220760 | 55.686 | ng | | 98 |
| 26) 2-Nitrophenol | 7.739 | 139 | 54623 | 53.741 | ng | | 93 |
| 27) 2,4-Dimethylphenol | 7.781 | 122 | 64344 | 52.910 | ng | | 96 |
| 28) bis(2-Chloroethoxy)met... | 7.869 | 93 | 127071 | 52.635 | ng | | 100 |
| 29) 2,4-Dichlorophenol | 7.992 | 162 | 75807 | 48.511 | ng | | 98 |
| 30) 1,2,4-Trichlorobenzene | 8.057 | 180 | 88221 | 48.920 | ng | | 98 |
| 31) Naphthalene | 8.139 | 128 | 289049 | 48.378 | ng | | 99 |
| 32) Benzoic acid | 7.898 | 122 | 10827 | 11.326 | ng | | 90 |
| 33) 4-Chloroaniline | 8.198 | 127 | 50121 | 24.990 | ng | | 97 |
| 34) Hexachlorobutadiene | 8.251 | 225 | 54091 | 49.521 | ng | | 97 |
| 35) Caprolactam | 8.563 | 113 | 4232 | 9.076 | ng | | 95 |
| 36) 4-Chloro-3-methylphenol | 8.681 | 107 | 78022 | 43.688 | ng | | 98 |
| 37) 2-Methylnaphthalene | 8.828 | 142 | 179168 | 47.482 | ng | | 99 |
| 38) 1-Methylnaphthalene | 8.928 | 142 | 162272 | 43.886 | ng | | 99 |
| 40) 1,2,4,5-Tetrachloroben... | 8.992 | 216 | 75412 | 52.698 | ng | | 98 |
| 41) Hexachlorocyclopentadiene | 8.975 | 237 | 8395 | 27.200 | ng | | 98 |
| 43) 2,4,6-Trichlorophenol | 9.116 | 196 | 48377 | 55.446 | ng | | 99 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081424\
Data File : BF139004.D
Acq On : 14 Aug 2024 20:16
Operator : RC/JU
Sample : P3466-02MS
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MS

**Manual Integrations APPROVED**
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

Quant Time: Aug 15 01:12:50 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 9.163 | 196 | 49765 | 52.173 | ng | | 98 |
| 46) 1,1'-Biphenyl | 9.292 | 154 | 203844 | 50.524 | ng | | 99 |
| 47) 2-Chloronaphthalene | 9.316 | 162 | 160805 | 53.590 | ng | | 98 |
| 48) 2-Nitroaniline | 9.422 | 65 | 60441 | 59.416 | ng | | 95 |
| 49) Acenaphthylene | 9.733 | 152 | 240207 | 56.442 | ng | | 99 |
| 50) Dimethylphthalate | 9.592 | 163 | 191710 | 58.201 | ng | | 100 |
| 51) 2,6-Dinitrotoluene | 9.663 | 165 | 41777 | 56.199 | ng | | 95 |
| 52) Acenaphthene | 9.904 | 154 | 148246 | 51.819 | ng | | 99 |
| 53) 3-Nitroaniline | 9.833 | 138 | 32990 | 42.929 | ng | | 95 |
| 54) 2,4-Dinitrophenol | 9.957 | 184 | 17080 | 49.912 | ng | | 86 |
| 55) Dibenzofuran | 10.075 | 168 | 223960 | 55.458 | ng | | 97 |
| 56) 4-Nitrophenol | 10.022 | 139 | 16610 | 35.942 | ng | | 84 |
| 57) 2,4-Dinitrotoluene | 10.069 | 165 | 55418 | 58.431 | ng | # | 81 |
| 58) Fluorene | 10.416 | 166 | 179589 | 55.844 | ng | | 99 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.198 | 232 | 40515 | 55.559 | ng | | 95 |
| 60) Diethylphthalate | 10.286 | 149 | 184795 | 59.168 | ng | | 99 |
| 61) 4-Chlorophenyl-phenyle... | 10.410 | 204 | 87342 | 55.223 | ng | | 96 |
| 62) 4-Nitroaniline | 10.451 | 138 | 42471 | 58.155 | ng | # | 83 |
| 63) Azobenzene | 10.569 | 77 | 193712 | 55.922 | ng | | 96 |
| 65) 4,6-Dinitro-2-methylph... | 10.480 | 198 | 16986 | 28.654 | ng | | 92 |
| 66) n-Nitrosodiphenylamine | 10.528 | 169 | 151630 | 49.925 | ng | | 99 |
| 67) 4-Bromophenyl-phenylether | 10.898 | 248 | 50724 | 48.217 | ng | | 98 |
| 68) Hexachlorobenzene | 10.969 | 284 | 52847 | 48.653 | ng | | 99 |
| 69) Atrazine | 11.057 | 200 | 45975 | 58.672 | ng | | 96 |
| 70) Pentachlorophenol | 11.169 | 266 | 44341 | 90.567 | ng | | 99 |
| 71) Phenanthrene | 11.380 | 178 | 274991 | 54.963 | ng | | 99 |
| 72) Anthracene | 11.433 | 178 | 282138 | 57.242 | ng | | 99 |
| 73) Carbazole | 11.592 | 167 | 257719 | 60.606 | ng | | 99 |
| 74) Di-n-butylphthalate | 11.910 | 149 | 297984 | 62.335 | ng | | 99 |
| 75) Fluoranthene | 12.569 | 202 | 307805 | 65.900 | ng | | 99 |
| 77) Benzidine | 12.704 | 184 | 3914 | 2.653 | ng | | 96 |
| 78) Pyrene | 12.804 | 202 | 308391 | 53.102 | ng | | 99 |
| 80) Butylbenzylphthalate | 13.410 | 149 | 131691 | 70.812 | ng | | 97 |
| 81) Benzo(a)anthracene | 13.992 | 228 | 234539 | 55.217 | ng | | 99 |
| 82) 3,3'-Dichlorobenzidine | 13.951 | 252 | 55847 | 51.379 | ng | | 100 |
| 83) Chrysene | 14.027 | 228 | 201206 | 52.505 | ng | | 99 |
| 84) Bis(2-ethylhexyl)phtha... | 13.963 | 149 | 164690 | 60.475 | ng | | 99 |
| 85) Di-n-octyl phthalate | 14.574 | 149 | 233843 | 46.411 | ng | | 98 |
| 87) Indeno(1,2,3-cd)pyrene | 16.939 | 276 | 155066 | 45.760 | ng | | 94 |
| 88) Benzo(b)fluoranthene | 15.039 | 252 | 166247m | 56.715 | ng | | |
| 89) Benzo(k)fluoranthene | 15.063 | 252 | 153438 | 60.458 | ng | | 98 |
| 90) Benzo(a)pyrene | 15.404 | 252 | 140901 | 57.146 | ng | | 99 |
| 91) Dibenzo(a,h)anthracene | 16.945 | 278 | 127110 | 45.695 | ng | | 97 |
| 92) Benzo(g,h,i)perylene | 17.380 | 276 | 120309 | 41.679 | ng | | 96 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

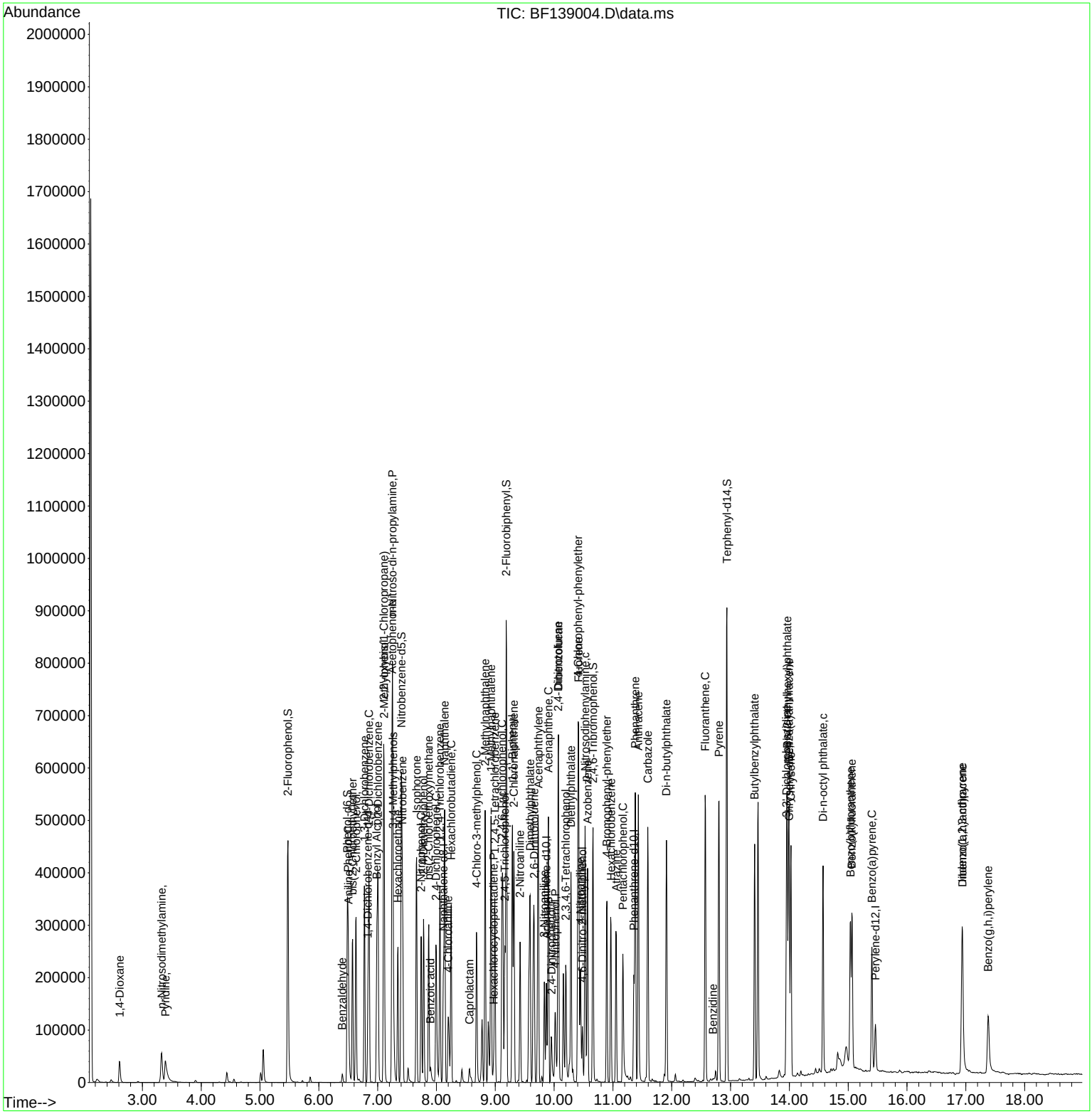
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081424\
Data File : BF139004.D
Acq On : 14 Aug 2024 20:16
Operator : RC/JU
Sample : P3466-02MS
Misc :
ALS Vial : 18 Sample Multiplier: 1

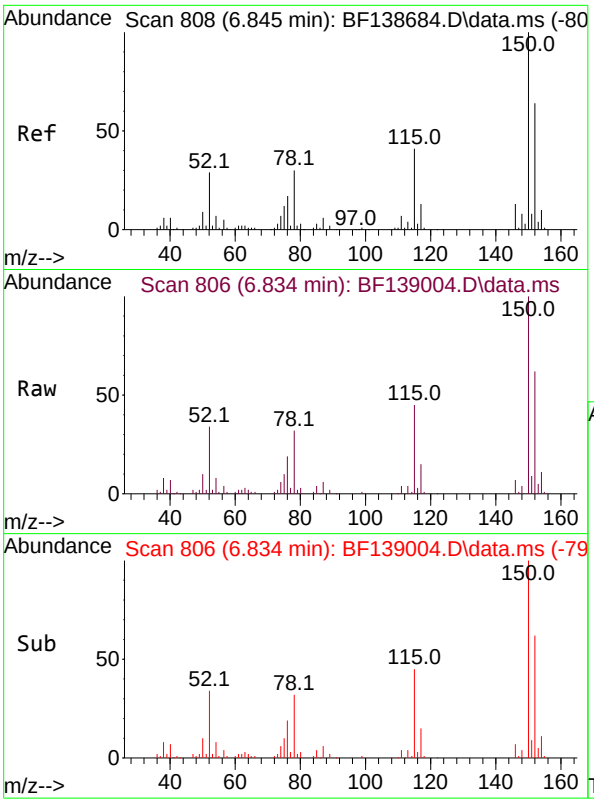
Quant Time: Aug 15 01:12:50 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MS

**Manual Integrations APPROVED**

Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

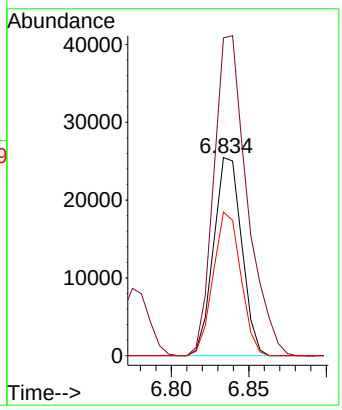





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.834 min Scan# 8
Delta R.T. -0.011 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:152 Resp: 3215

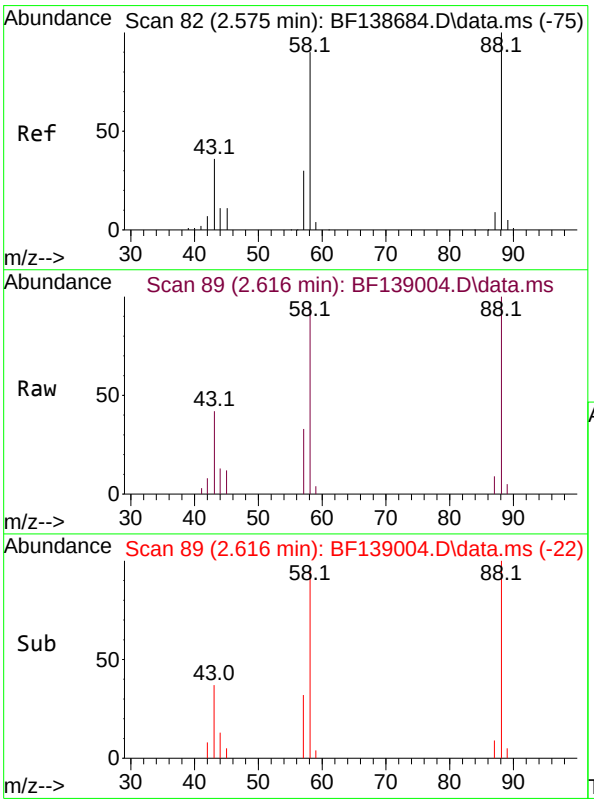
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 160.5 | 126.0 | 189.0 |
| 115 | 72.5 | 51.7 | 77.5 |




**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MS

**Manual Integrations**
**APPROVED**

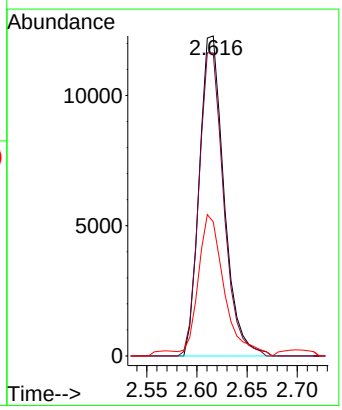
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

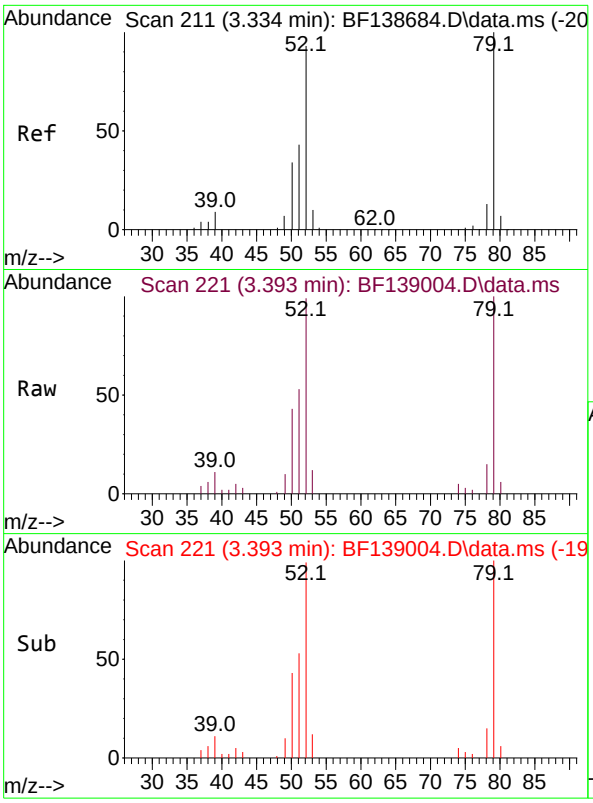



#2
1,4-Dioxane
Concen: 23.027 ng
RT: 2.616 min Scan# 89
Delta R.T. 0.041 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion: 88 Resp: 21000

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 95.4 | 71.6 | 107.4 |
| 43 | 46.5 | 28.7 | 43.1# |

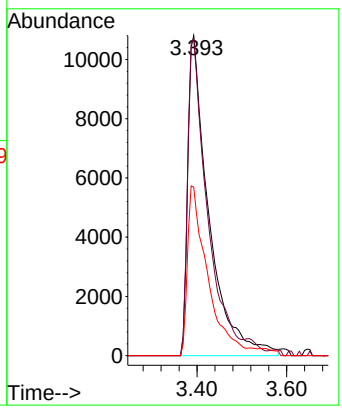





#3
Pyridine
Concen: 15.864 ng
RT: 3.393 min Scan# 2
Delta R.T. 0.059 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion: 79 Resp: 3504

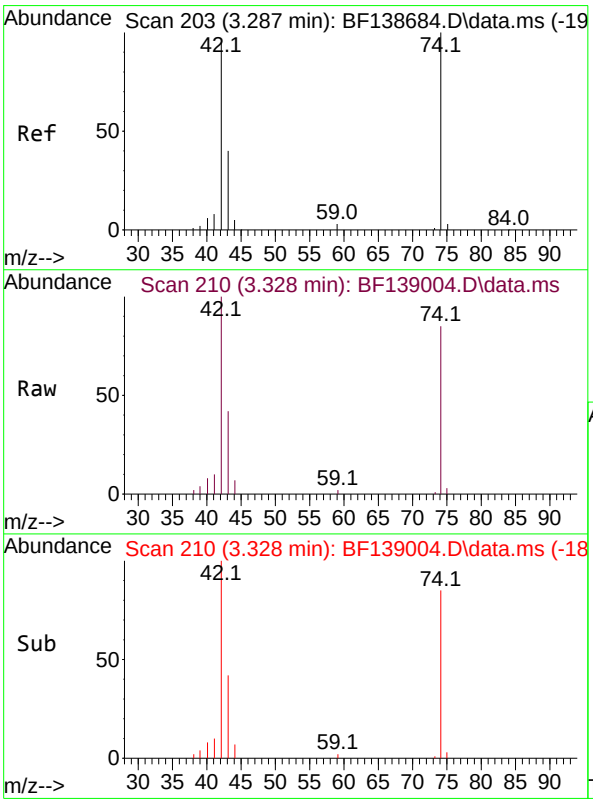
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 99.2 | 74.7 | 112.1 |
| 51 | 52.6 | 34.6 | 51.8 |




**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MS

**Manual Integrations**
**APPROVED**

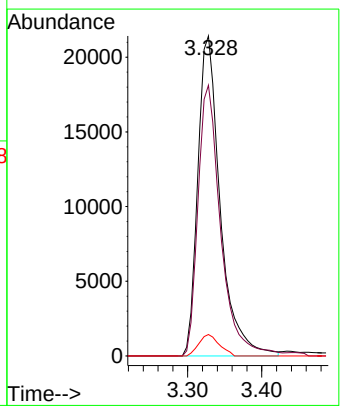
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

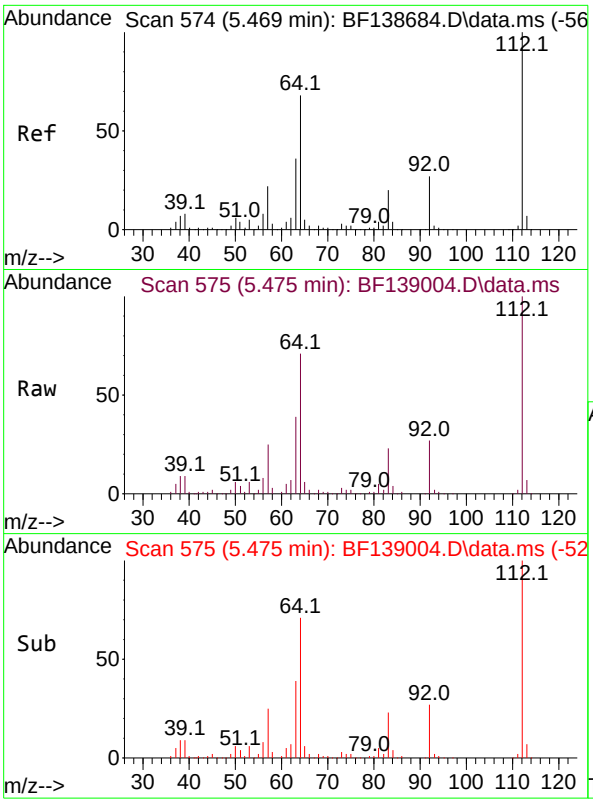



#4
n-Nitrosodimethylamine
Concen: 34.287 ng
RT: 3.328 min Scan# 210
Delta R.T. 0.041 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion: 42 Resp: 45113

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 84.6 | 84.2 | 126.4 |
| 44 | 6.7 | 4.9 | 7.3 |

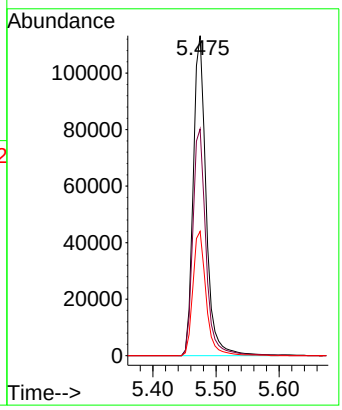





#5
2-Fluorophenol
Concen: 77.098 ng
RT: 5.475 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:112 Resp: 160599

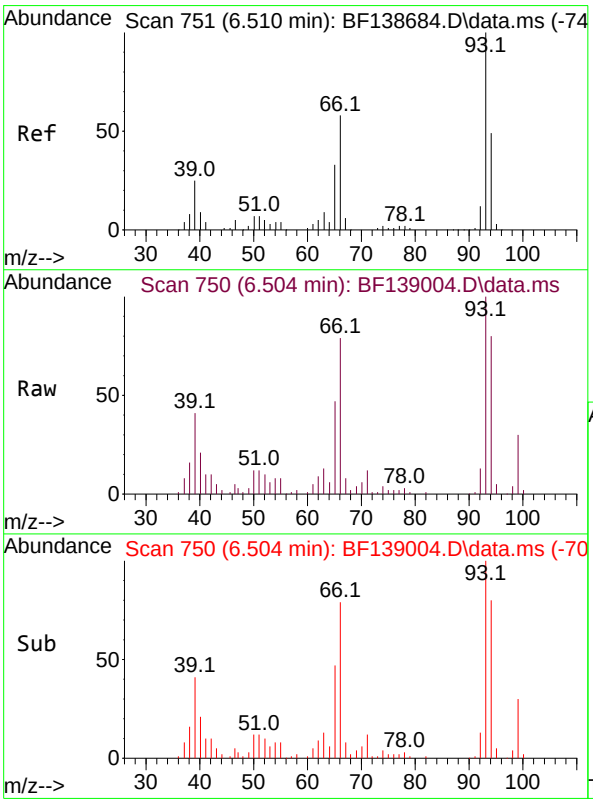
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 70.8 | 54.2 | 81.4 |
| 63 | 38.9 | 28.7 | 43.1 |




**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MS

**Manual Integrations**
**APPROVED**

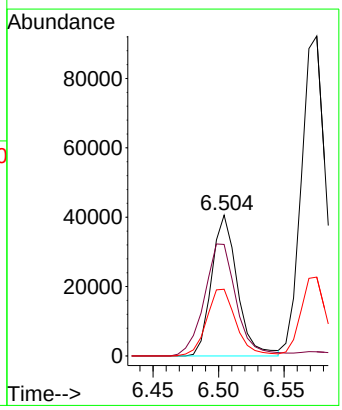
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

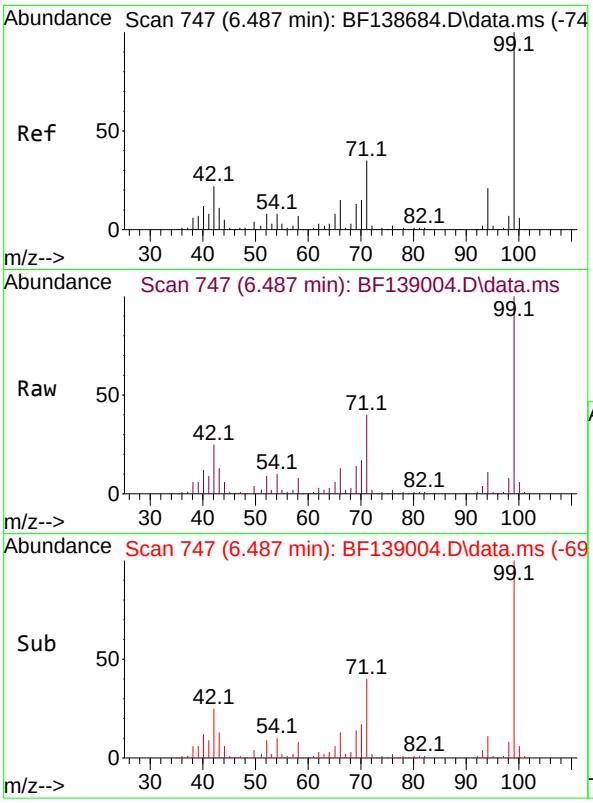



#6
Aniline
Concen: 22.253 ng
RT: 6.504 min Scan# 750
Delta R.T. -0.006 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion: 93 Resp: 55501

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 66 | 79.2 | 46.9 | 70.3# |
| 65 | 47.4 | 26.5 | 39.7# |






#7
Phenol-d6
Concen: 45.003 ng
RT: 6.487 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

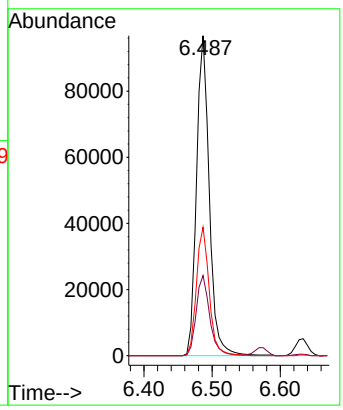
Tgt Ion: 99 Resp: 12586

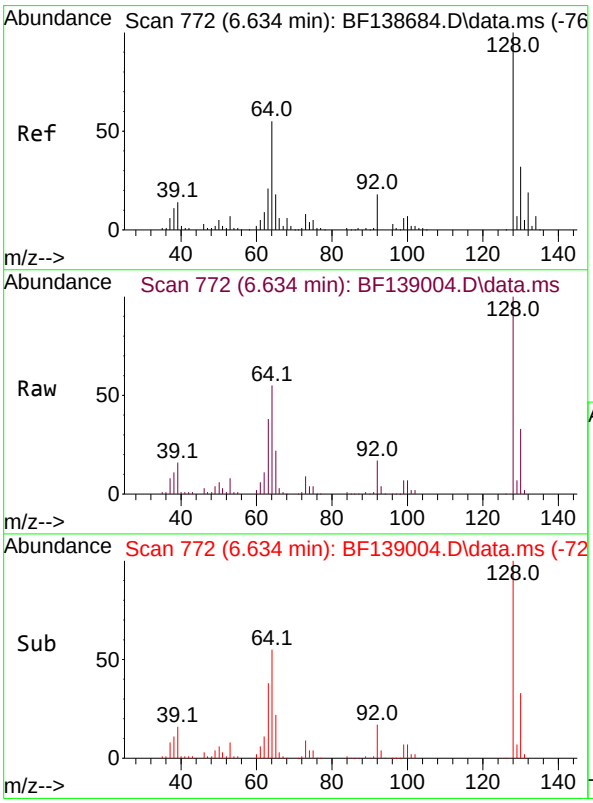
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 25.1 | 17.4 | 26.0 |
| 71 | 40.1 | 28.1 | 42.1 |

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MS

**Manual Integrations APPROVED**

Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

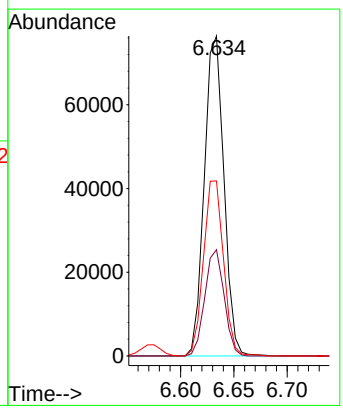


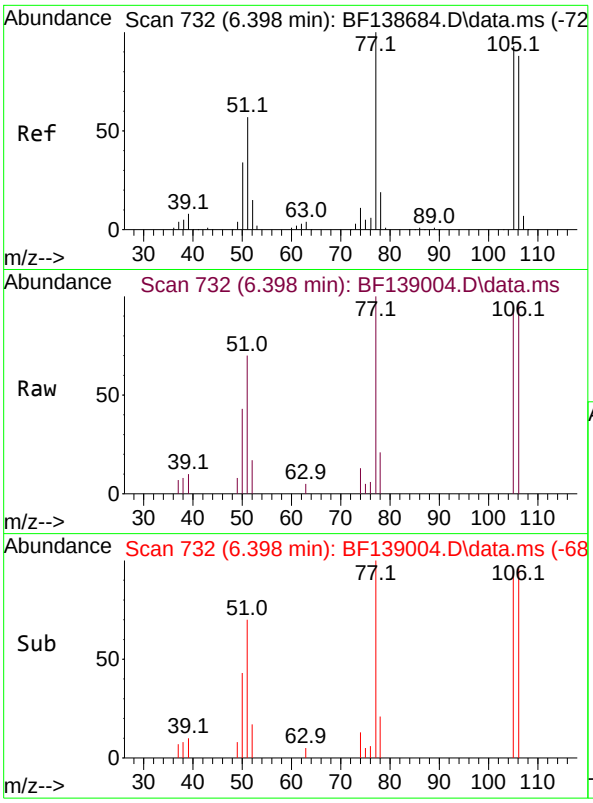




#8
2-Chlorophenol
Concen: 44.773 ng
RT: 6.634 min Scan# 772
Delta R.T. 0.000 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:128 Resp: 98124

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 130 | 33.2 | 12.0 | 52.0 |
| 64 | 54.7 | 36.3 | 76.3 |

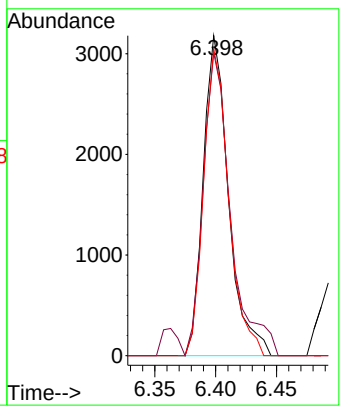





#9
Benzaldehyde
Concen: 2.742 ng
RT: 6.398 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion: 77 Resp: 459

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 105 | 94.7 | 72.9 | 112.9 |
| 106 | 95.8 | 68.4 | 108.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MS

**Manual Integrations**
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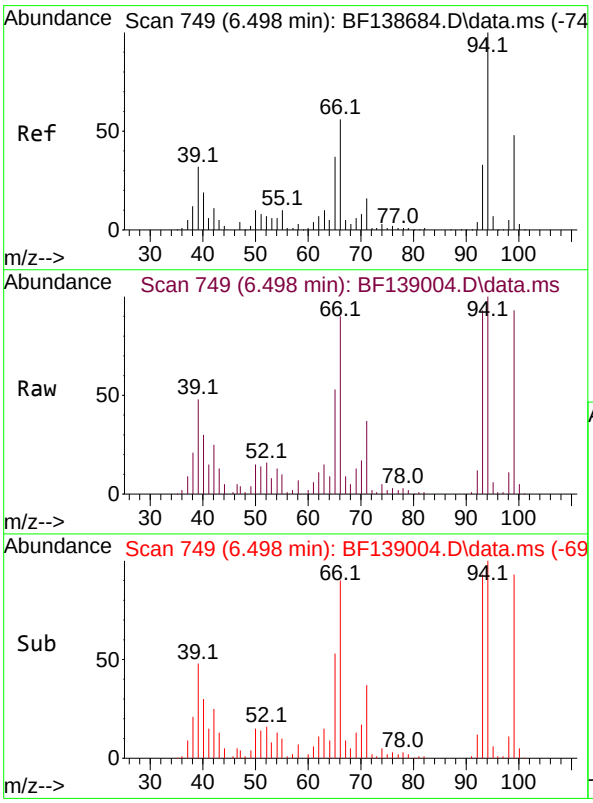
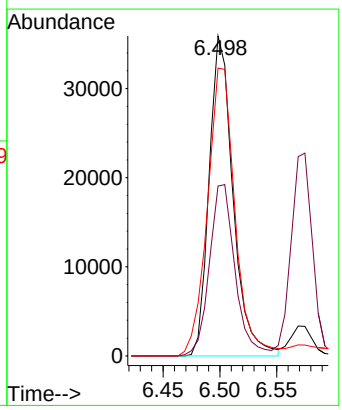
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

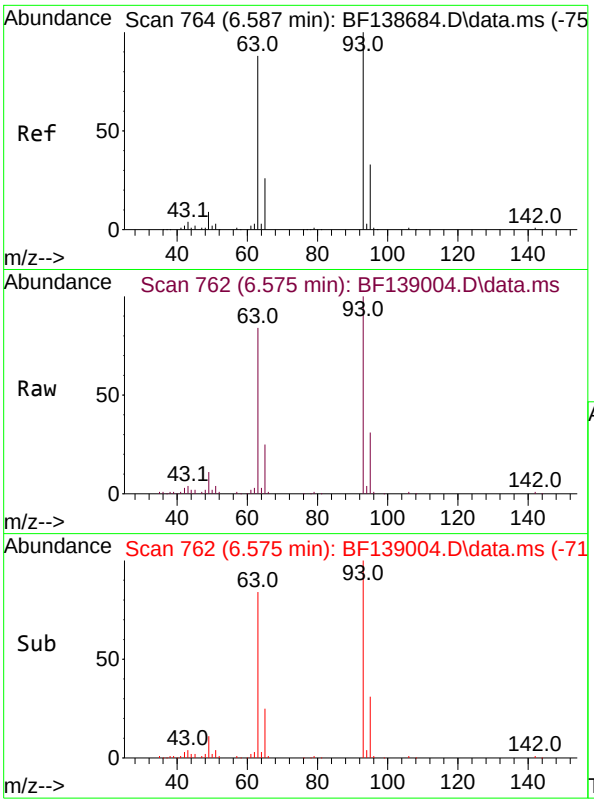



#10
Phenol
Concen: 17.854 ng
RT: 6.498 min Scan# 749
Delta R.T. -0.000 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion: 94 Resp: 52572

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 53.1 | 16.9 | 56.9 |
| 66 | 90.0 | 36.5 | 76.5# |

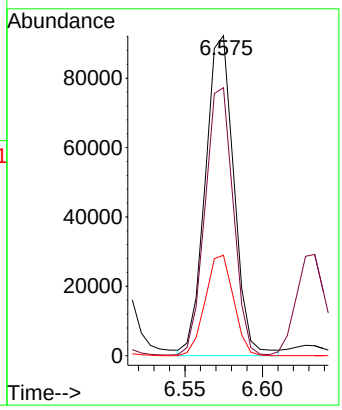





#11
bis(2-Chloroethyl)ether
Concen: 52.462 ng
RT: 6.575 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion: 93 Resp: 11887

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 83.7 | 65.3 | 105.3 |
| 95 | 31.4 | 12.4 | 52.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MS

**Manual Integrations**
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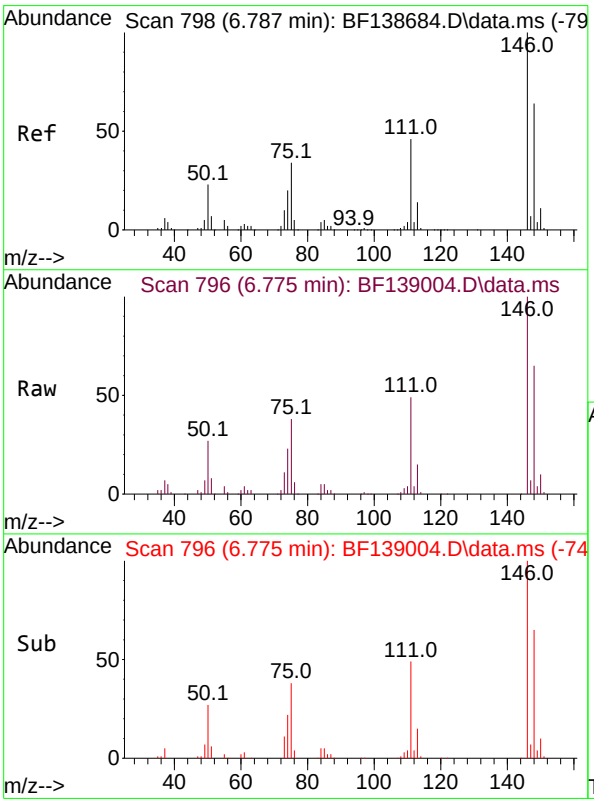
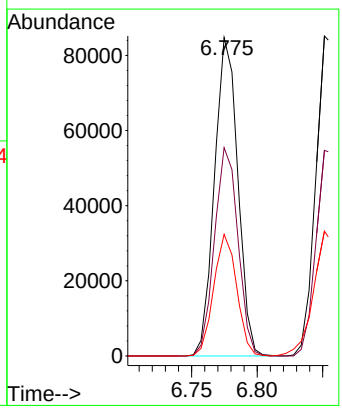
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

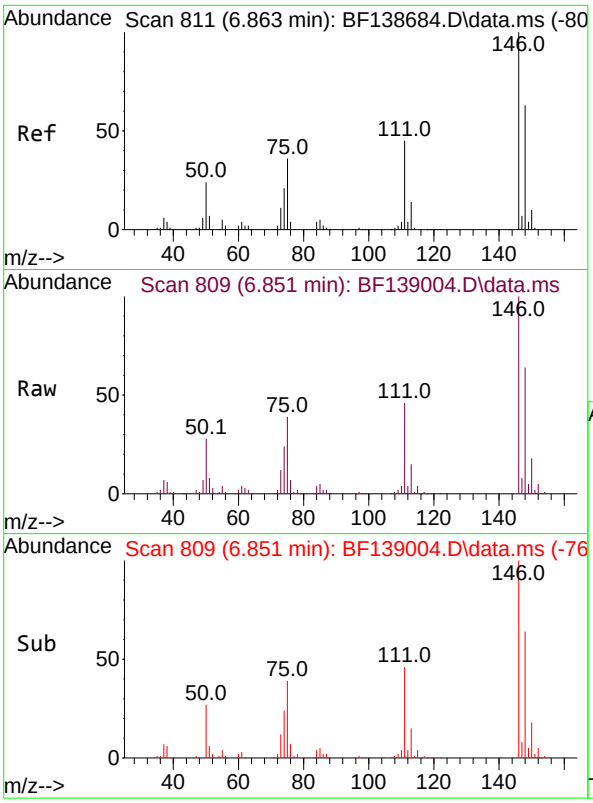



#12
1,3-Dichlorobenzene
Concen: 42.660 ng
RT: 6.775 min Scan# 796
Delta R.T. -0.012 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:146 Resp: 104654

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 65.4 | 51.2 | 76.8 |
| 75 | 38.2 | 27.4 | 41.2 |

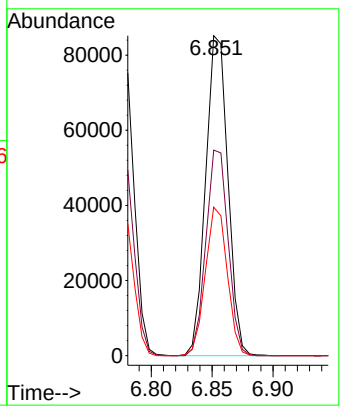





#13
1,4-Dichlorobenzene
Concen: 43.743 ng
RT: 6.851 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:146 Resp: 10829

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 64.3 | 50.2 | 75.2 |
| 111 | 46.4 | 35.9 | 53.9 |




**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MS

**Manual Integrations**
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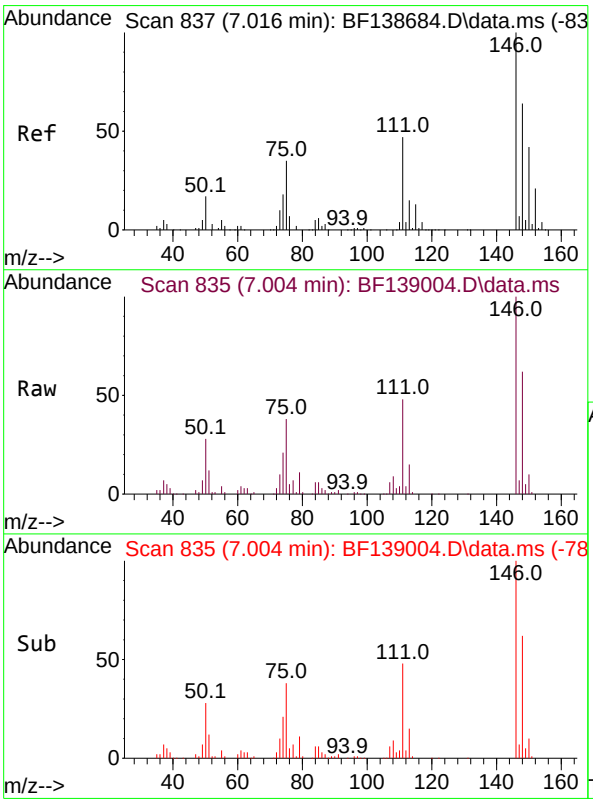
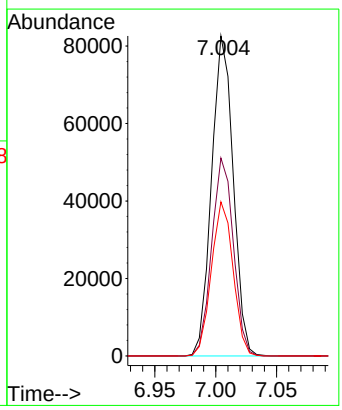
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

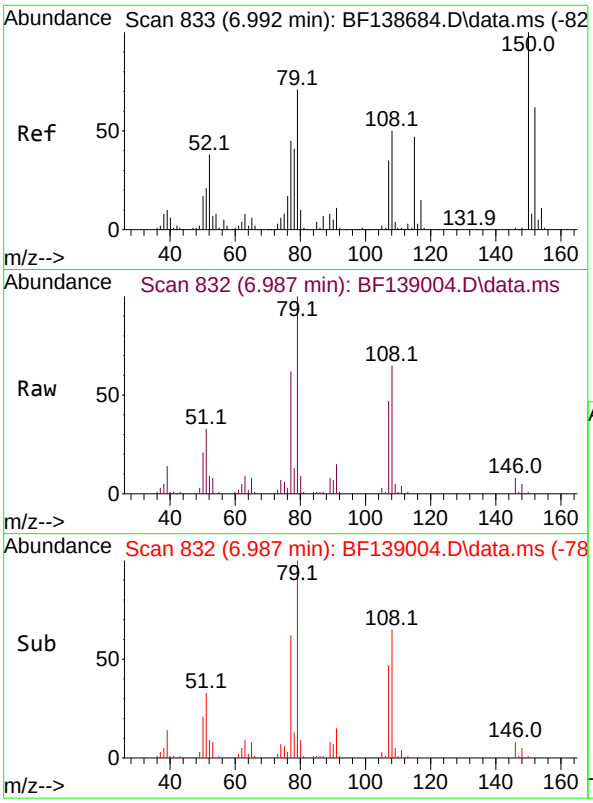



#14
1,2-Dichlorobenzene
Concen: 44.189 ng
RT: 7.004 min Scan# 835
Delta R.T. -0.012 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:146 Resp: 102243

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 61.8 | 50.8 | 76.2 |
| 111 | 48.2 | 37.4 | 56.2 |






#15
Benzyl Alcohol
Concen: 39.613 ng
RT: 6.987 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion: 79 Resp: 7984

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 108 | 65.3 | 56.6 | 85.0 |
| 77 | 62.1 | 50.3 | 75.5 |

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MS

**Manual Integrations**
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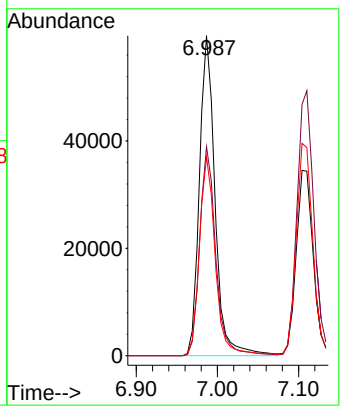
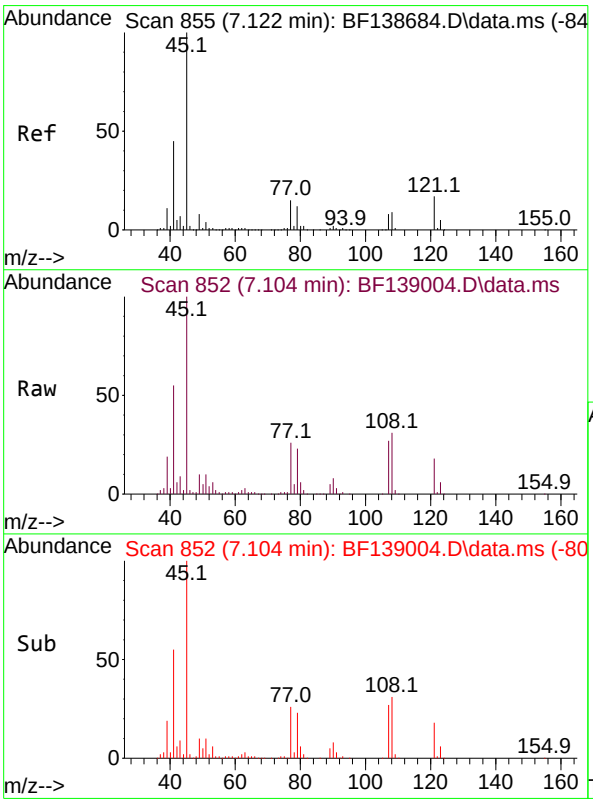
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

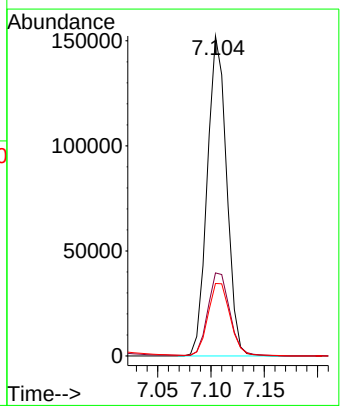


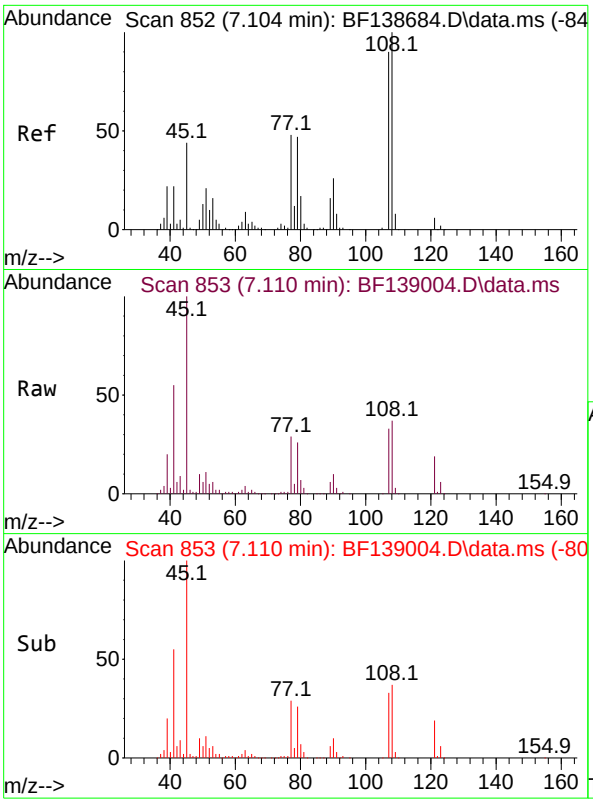




#16
2,2'-oxybis(1-Chloropropane)
Concen: 49.329 ng
RT: 7.104 min Scan# 852
Delta R.T. -0.018 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion: 45 Resp: 192367

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 77 | 26.0 | 0.0 | 34.9 |
| 79 | 22.7 | 0.0 | 32.2 |

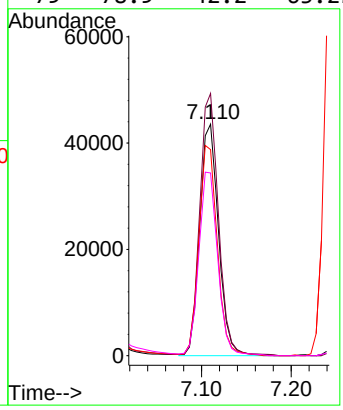





#17
2-Methylphenol
Concen: 35.111 ng
RT: 7.110 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:107 Resp: 6354

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 113.3 | 89.2 | 133.8 |
| 77 | 89.0 | 43.0 | 64.4# |
| 79 | 78.9 | 42.2 | 63.2# |




**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MS

**Manual Integrations**
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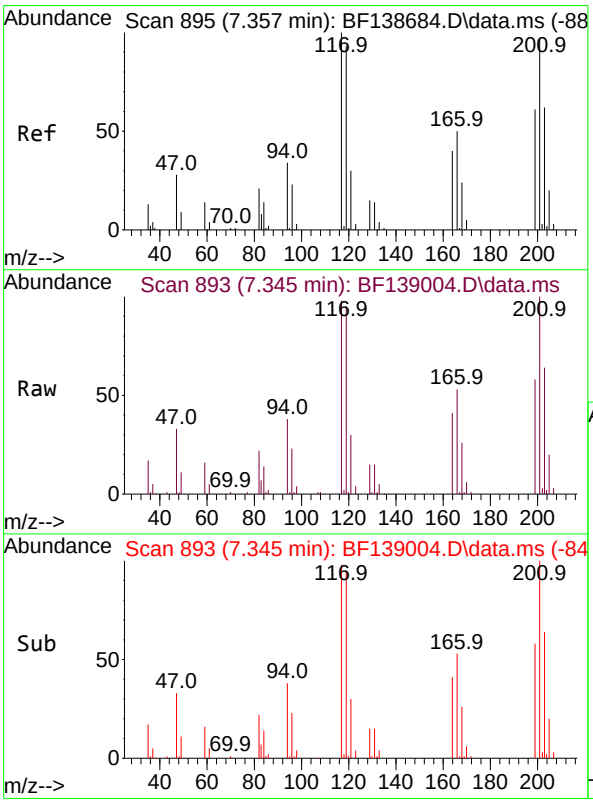
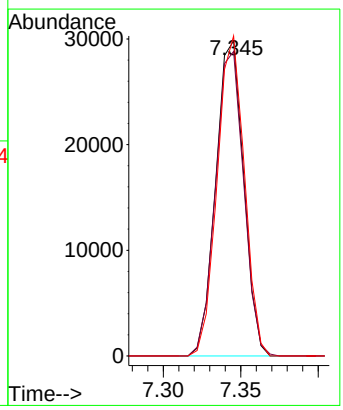
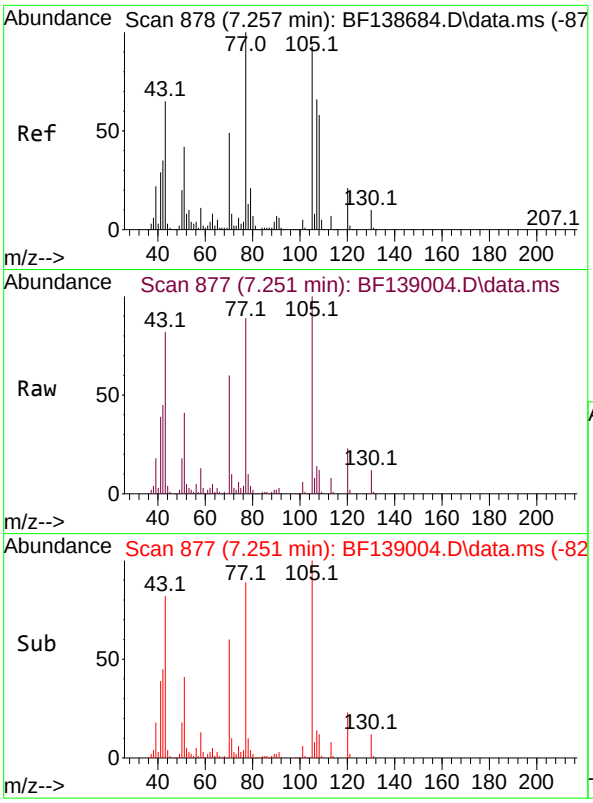



#18
Hexachloroethane
Concen: 39.980 ng
RT: 7.345 min Scan# 893
Delta R.T. -0.012 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:117 Resp: 37259

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 96.7 | 74.6 | 111.8 |
| 201 | 101.6 | 77.2 | 115.8 |

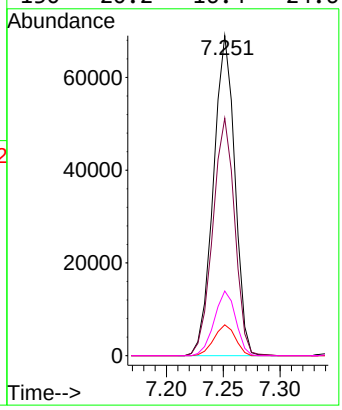





#19
n-Nitroso-di-n-propylamine
Concen: 53.733 ng
RT: 7.251 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion: 70 Resp: 9076

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 42 | 74.2 | 57.4 | 86.0 |
| 101 | 9.6 | 7.5 | 11.3 |
| 130 | 20.2 | 16.4 | 24.6 |




**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MS

**Manual Integrations**
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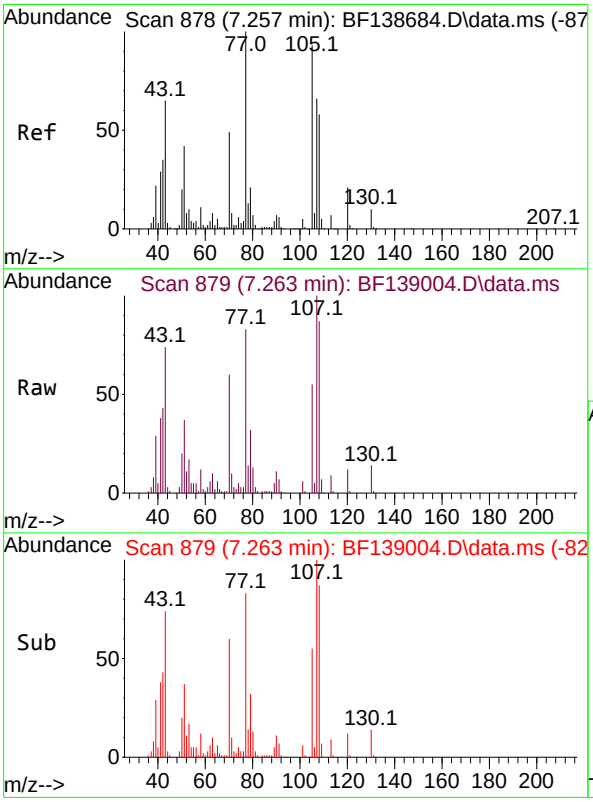
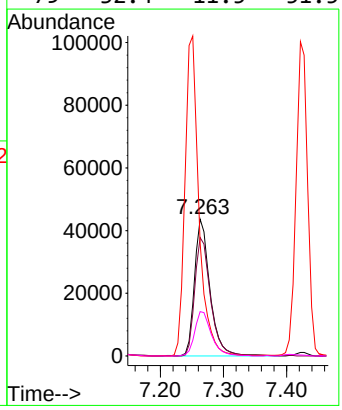
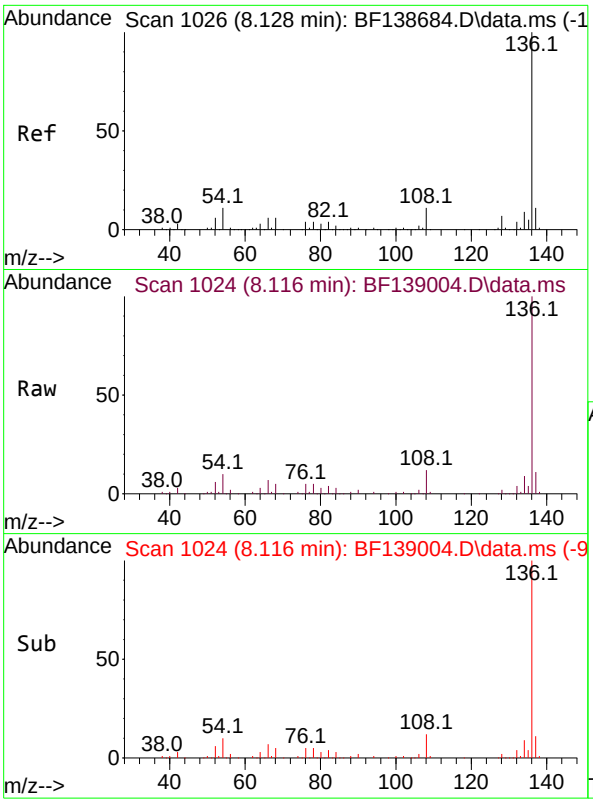



#20
3+4-Methylphenols
Concen: 32.023 ng
RT: 7.263 min Scan# 879
Delta R.T. 0.006 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:107 Resp: 74356

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 86.6 | 68.2 | 108.2 |
| 77 | 82.8 | 132.1 | 172.1# |
| 79 | 32.4 | 11.5 | 51.5 |

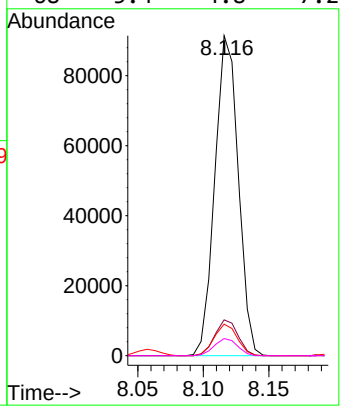





#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.116 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:136 Resp: 11351(

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.2 | 8.9 | 13.3 |
| 54 | 9.9 | 8.6 | 12.8 |
| 68 | 5.4 | 4.8 | 7.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MS

**Manual Integrations**
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Reviewed By :Jagrut Upadhyay 08/15/2024
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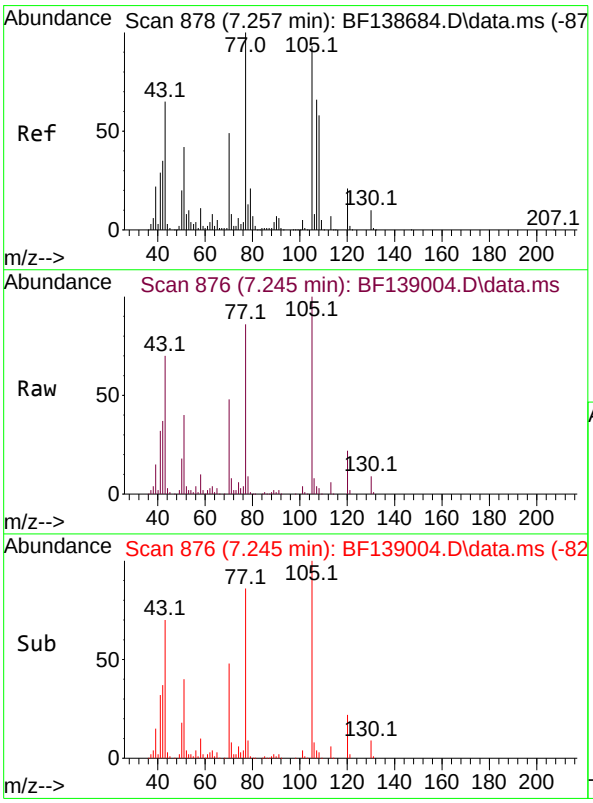
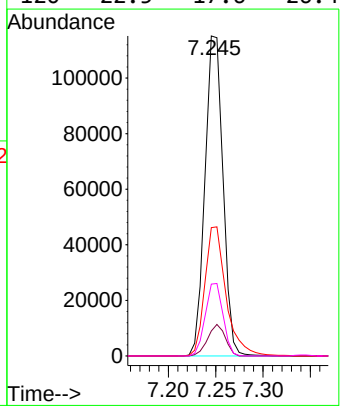
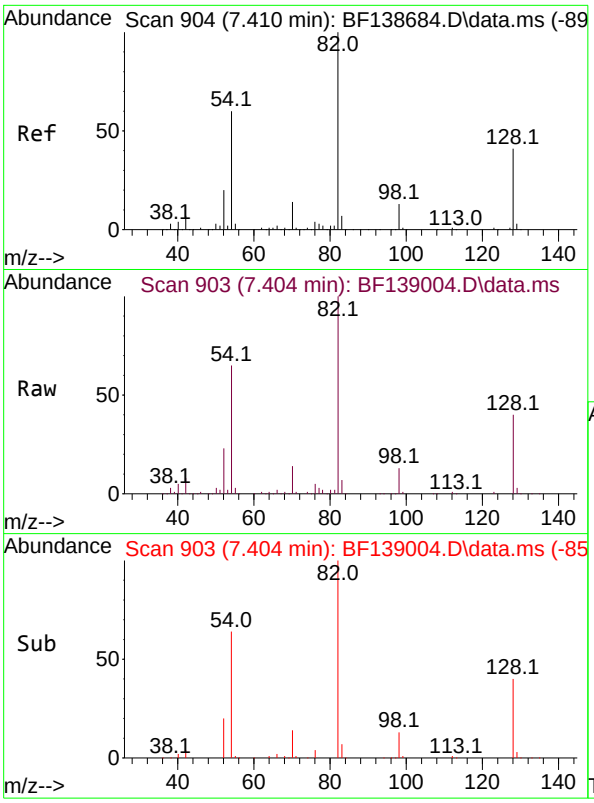



#22
Acetophenone
Concen: 54.705 ng
RT: 7.245 min Scan# 876
Delta R.T. -0.012 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:105 Resp: 152042

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 71 | 7.8 | 7.2 | 10.8 |
| 51 | 40.1 | 35.9 | 53.9 |
| 120 | 22.5 | 17.6 | 26.4 |

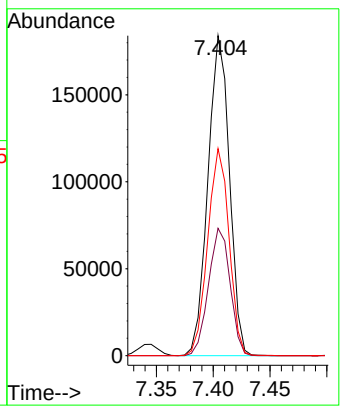





#23
Nitrobenzene-d5
Concen: 104.440 ng
RT: 7.404 min Scan# 9(
Delta R.T. -0.006 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion: 82 Resp: 24247(

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 39.8 | 32.8 | 49.2 |
| 54 | 64.7 | 48.3 | 72.5 |




**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MS

**Manual Integrations**
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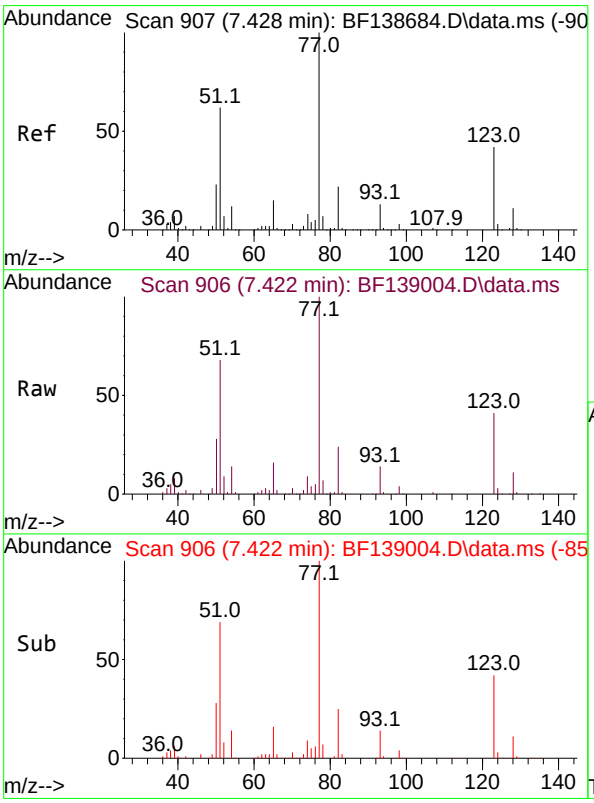
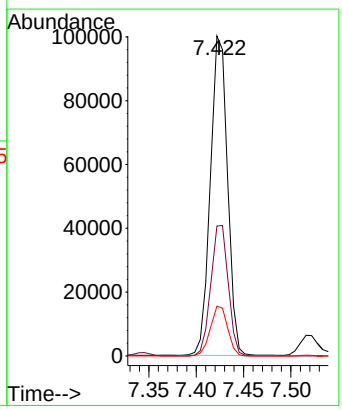
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

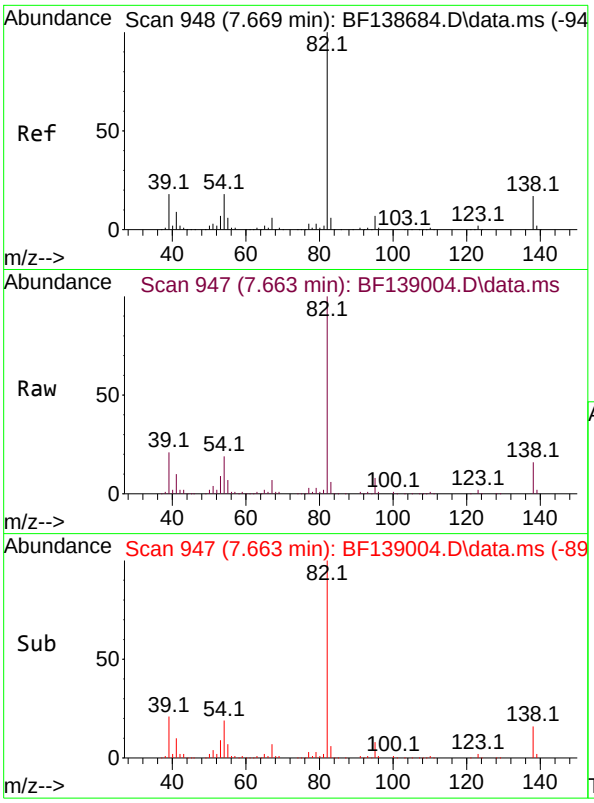



#24
Nitrobenzene
Concen: 53.635 ng
RT: 7.422 min Scan# 906
Delta R.T. -0.006 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion: 77 Resp: 126711

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 123 | 40.6 | 33.3 | 49.9 |
| 65 | 15.5 | 11.9 | 17.9 |

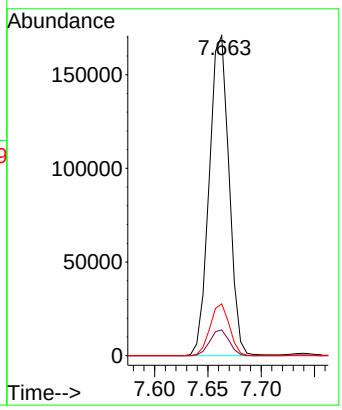





#25
Isophorone
Concen: 55.686 ng
RT: 7.663 min Scan# 94
Delta R.T. -0.006 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion: 82 Resp: 220760

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 95 | 8.1 | 5.7 | 8.5 |
| 138 | 16.2 | 13.7 | 20.5 |




**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MS

**Manual Integrations**
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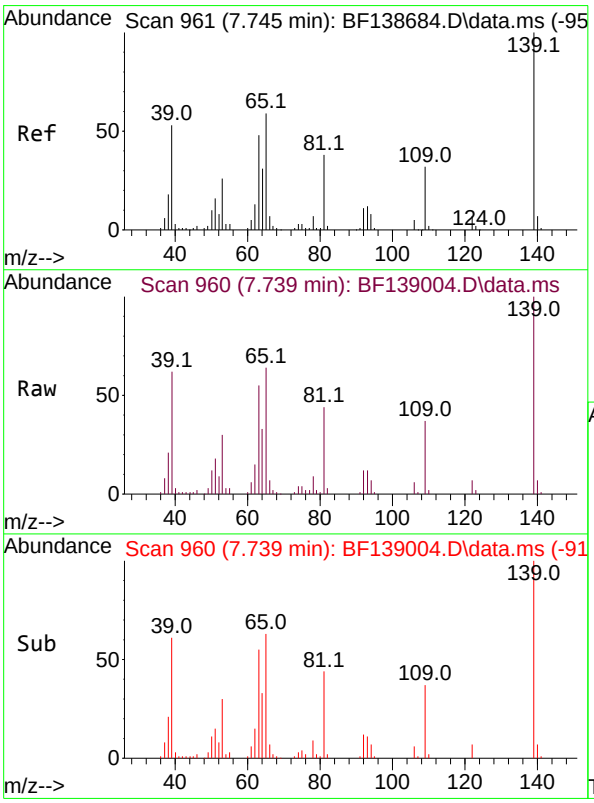
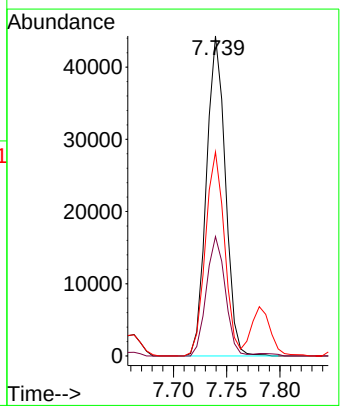
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

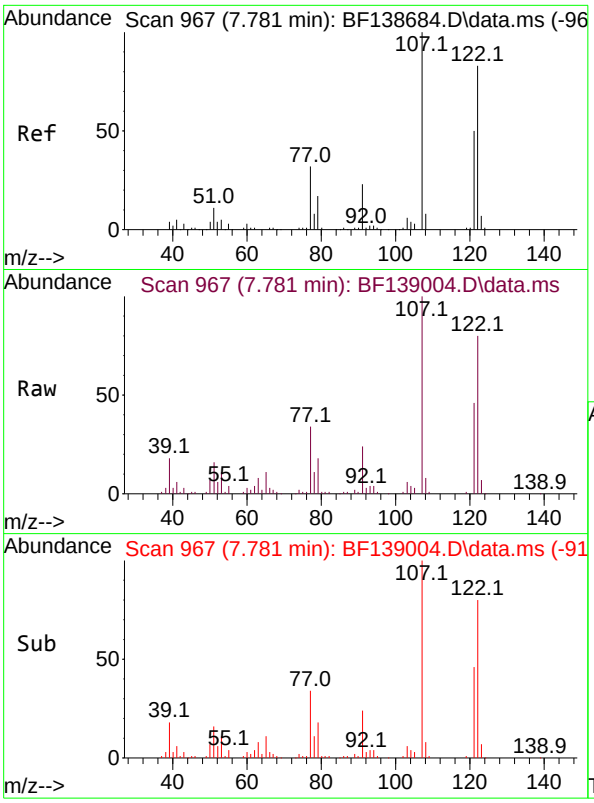



#26
2-Nitrophenol
Concen: 53.741 ng
RT: 7.739 min Scan# 960
Delta R.T. -0.006 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:139 Resp: 54623

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 37.3 | 25.9 | 38.9 |
| 65 | 63.7 | 47.0 | 70.6 |

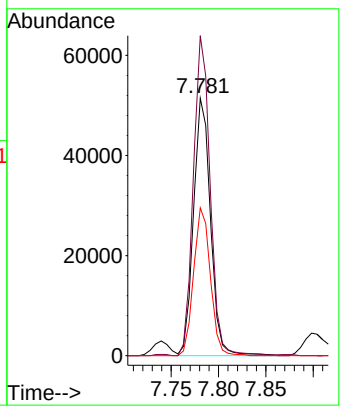





#27
2,4-Dimethylphenol
Concen: 52.910 ng
RT: 7.781 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:122 Resp: 6434

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 107 | 124.3 | 95.0 | 142.6 |
| 121 | 57.4 | 47.3 | 70.9 |




**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MS

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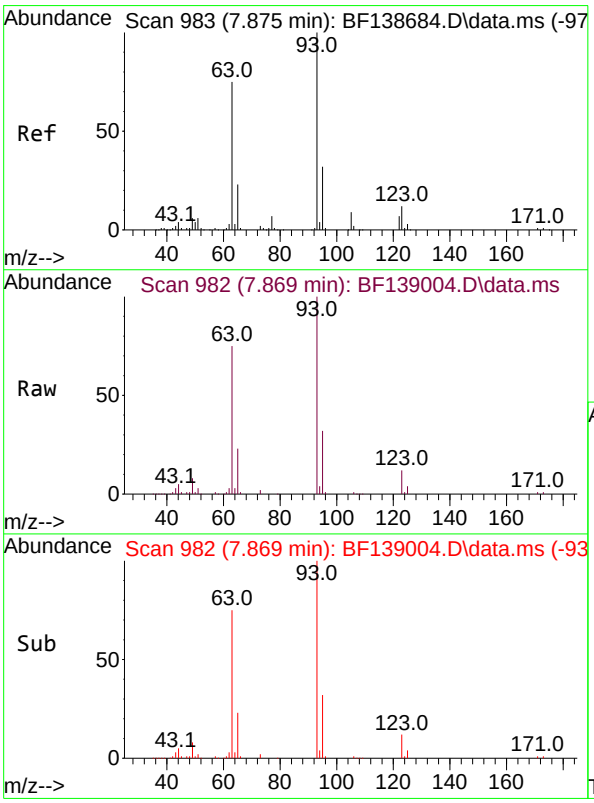
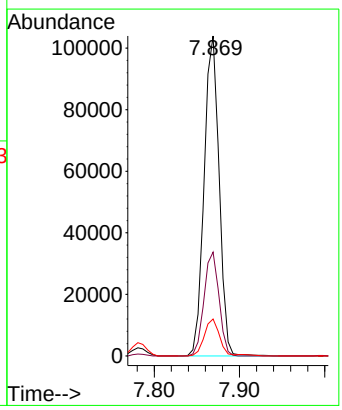
Supervised By :mohammad ahmed 08/16/2024

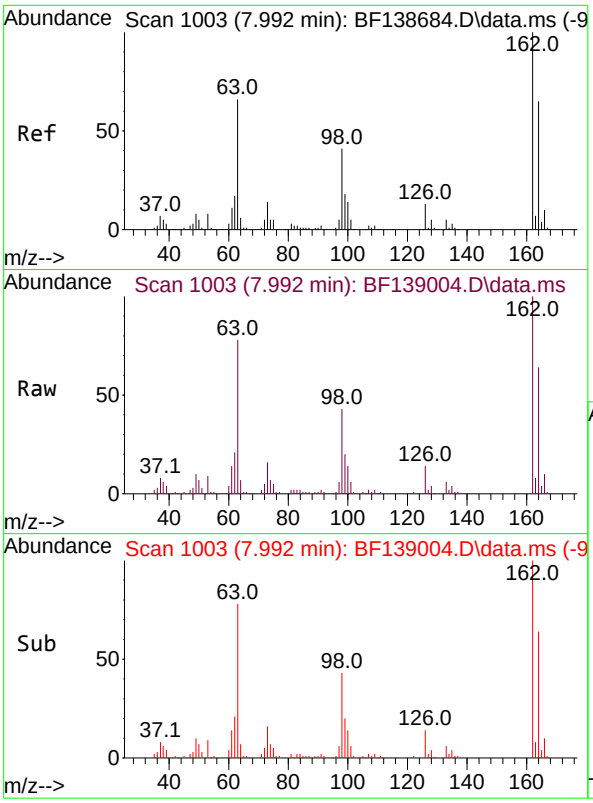



#28
bis(2-Chloroethoxy)methane
Concen: 52.635 ng
RT: 7.869 min Scan# 982
Delta R.T. -0.006 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion: 93 Resp: 127071

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 32.5 | 25.8 | 38.8 |
| 123 | 11.5 | 9.4 | 14.0 |

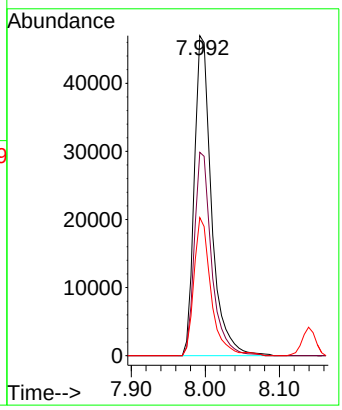





#29
2,4-Dichlorophenol
Concen: 48.511 ng
RT: 7.992 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:162 Resp: 7580

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 164 | 63.6 | 44.7 | 84.7 |
| 98 | 43.1 | 20.8 | 60.8 |




**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MS

**Manual Integrations**
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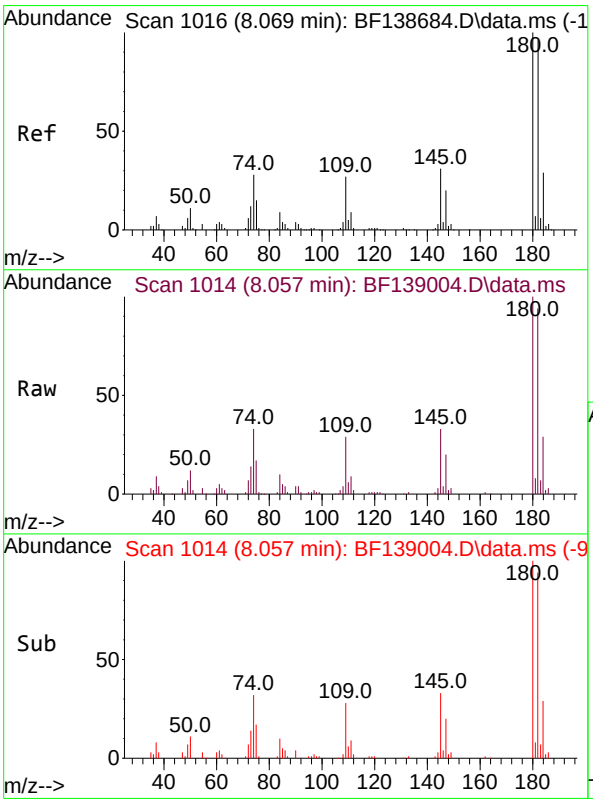
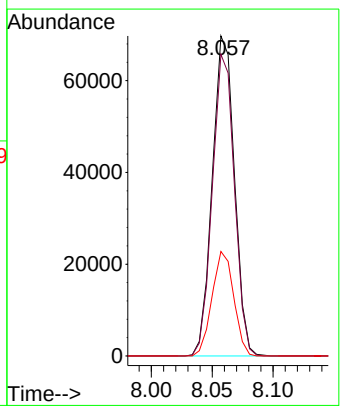
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

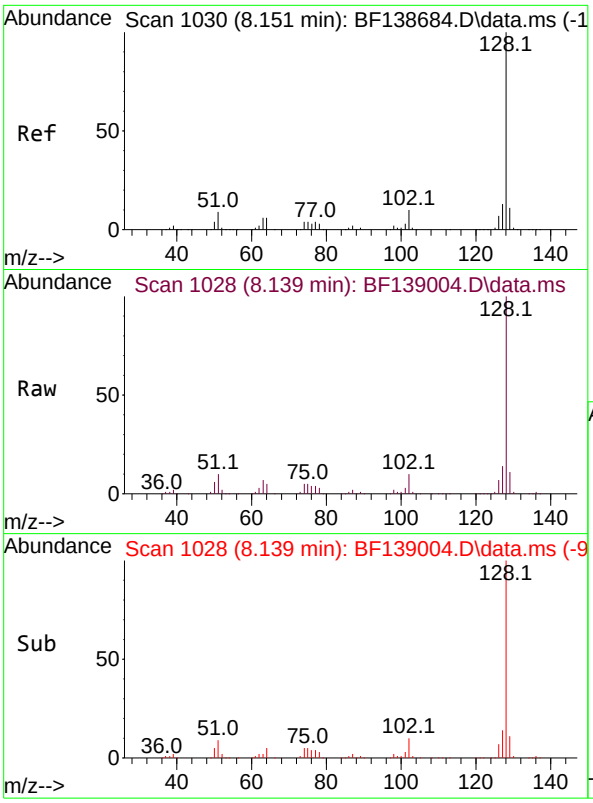



#30
1,2,4-Trichlorobenzene
Concen: 48.920 ng
RT: 8.057 min Scan# 1014
Delta R.T. -0.012 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:180 Resp: 88221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.3 | 76.9 | 115.3 |
| 145 | 32.6 | 25.0 | 37.4 |






#31
Naphthalene
Concen: 48.378 ng
RT: 8.139 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:128 Resp: 28904

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.0 | 8.7 | 13.1 |
| 127 | 13.6 | 10.6 | 16.0 |

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MS

**Manual Integrations**
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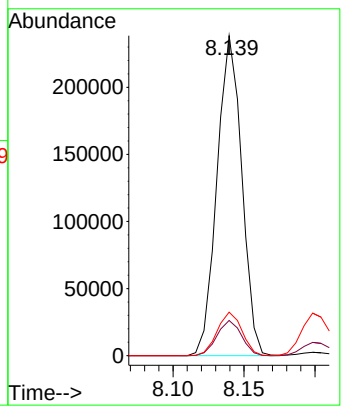
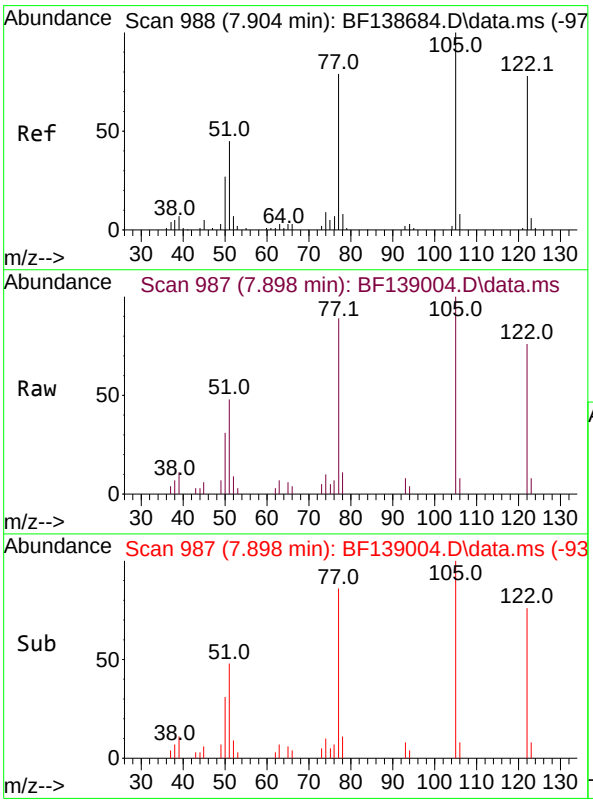
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

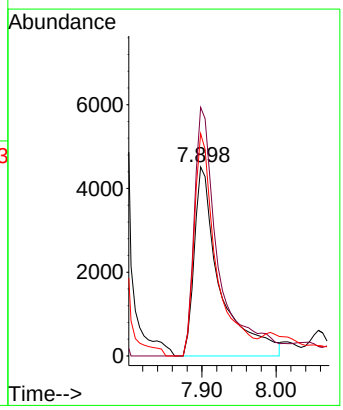


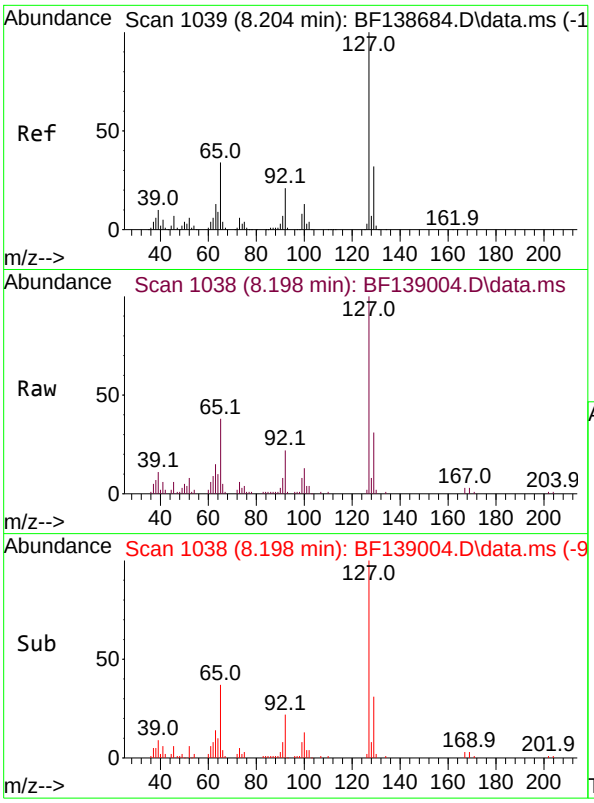




#32
Benzoic acid
Concen: 11.326 ng
RT: 7.898 min Scan# 987
Delta R.T. -0.006 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:122 Resp: 10827

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 131.6 | 106.7 | 146.7 |
| 77 | 117.7 | 81.1 | 121.1 |

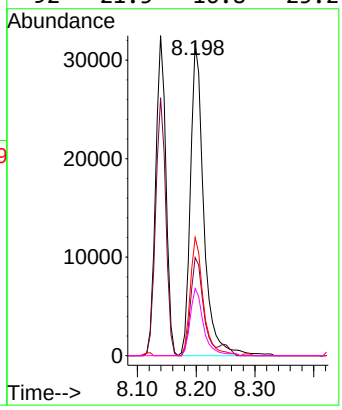





#33
4-Chloroaniline
Concen: 24.990 ng
RT: 8.198 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:127 Resp: 5012

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 31.5 | 25.9 | 38.9 |
| 65 | 37.9 | 27.6 | 41.4 |
| 92 | 21.5 | 16.8 | 25.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MS

**Manual Integrations**
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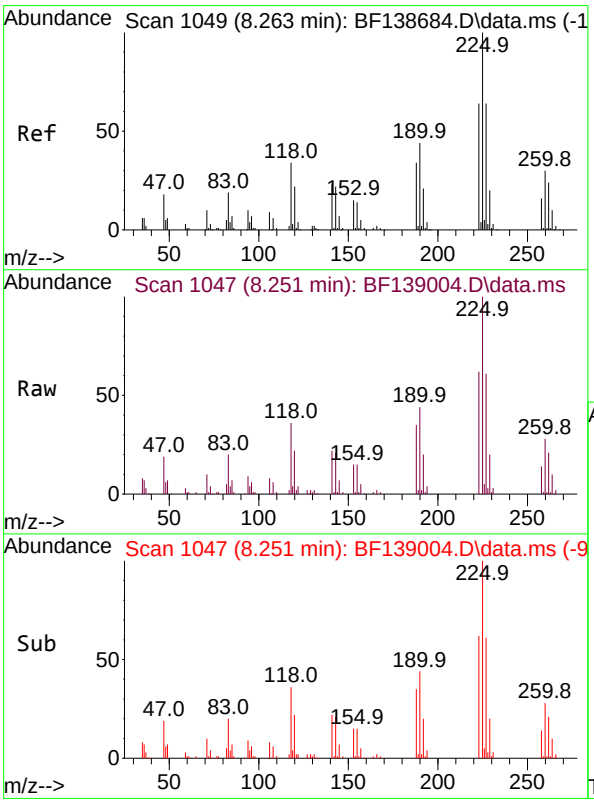
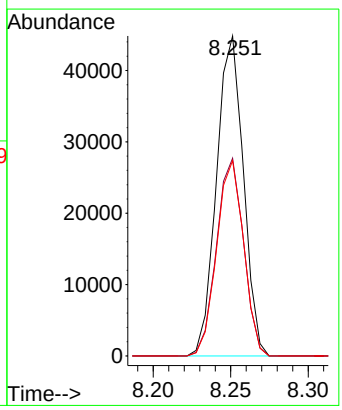
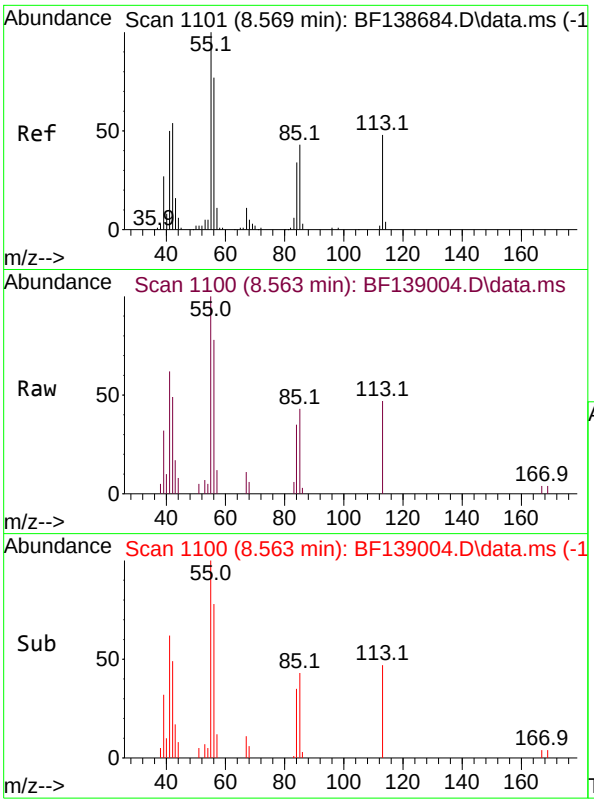



#34
Hexachlorobutadiene
Concen: 49.521 ng
RT: 8.251 min Scan# 1047
Delta R.T. -0.012 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:225 Resp: 54091

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 61.8 | 51.2 | 76.8 |
| 227 | 61.1 | 51.1 | 76.7 |






#35
Caprolactam
Concen: 9.076 ng
RT: 8.563 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:113 Resp: 423

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 55 | 213.6 | 186.7 | 226.7 |
| 56 | 167.4 | 138.9 | 178.9 |

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MS

**Manual Integrations**
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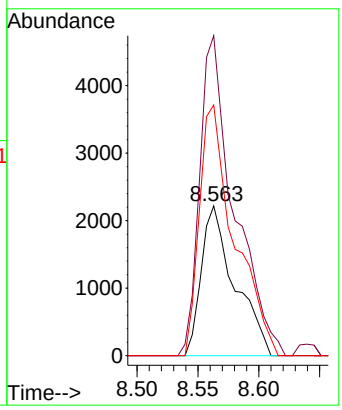
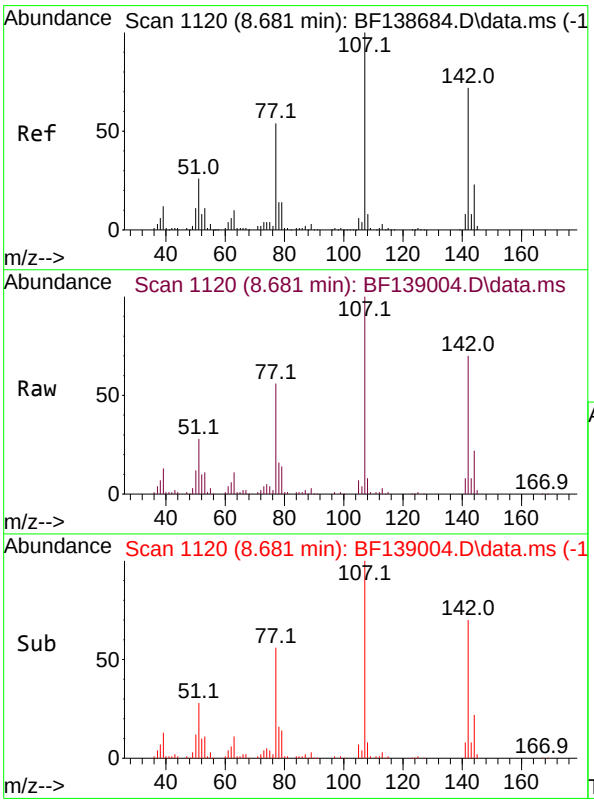
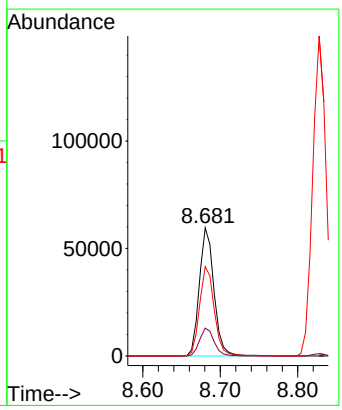


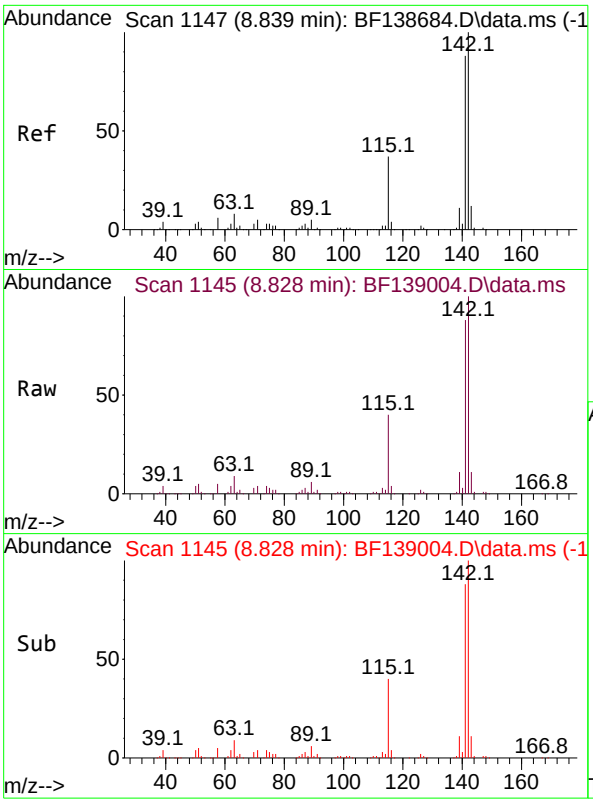




#36
4-Chloro-3-methylphenol
Concen: 43.688 ng
RT: 8.681 min Scan# 1120
Delta R.T. -0.000 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:107 Resp: 78022

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 144 | 21.7 | 18.2 | 27.2 |
| 142 | 69.7 | 57.4 | 86.2 |

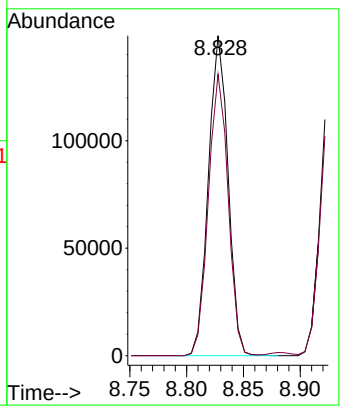





#37
2-Methylnaphthalene
Concen: 47.482 ng
RT: 8.828 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:142 Resp: 17916

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 88.0 | 70.8 | 106.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MS

**Manual Integrations**
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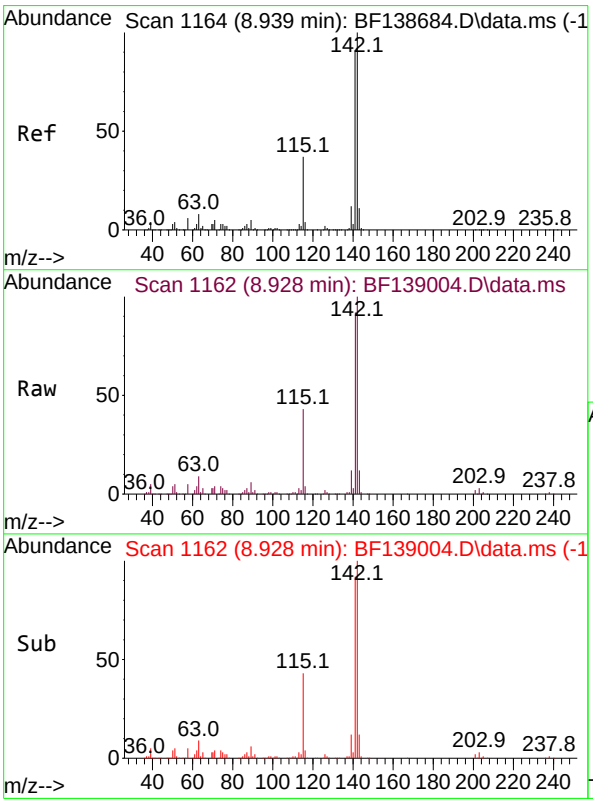
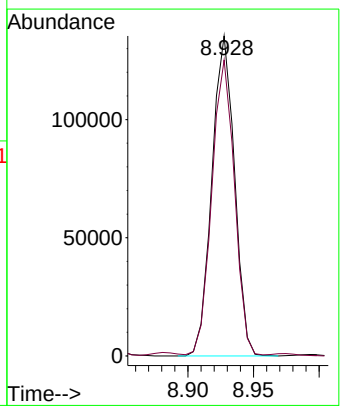
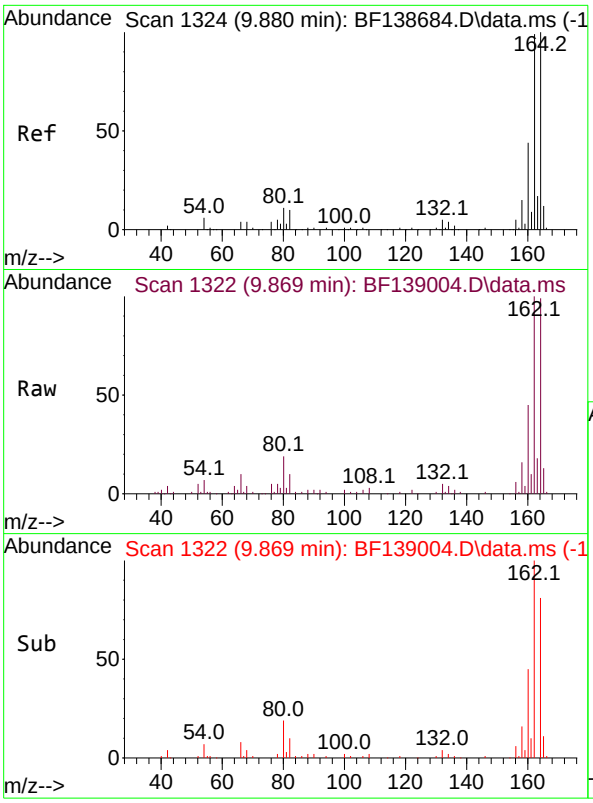



#38
1-Methylnaphthalene
Concen: 43.886 ng
RT: 8.928 min Scan# 1162
Delta R.T. -0.012 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:142 Resp: 162272

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 92.5 | 73.1 | 109.7 |

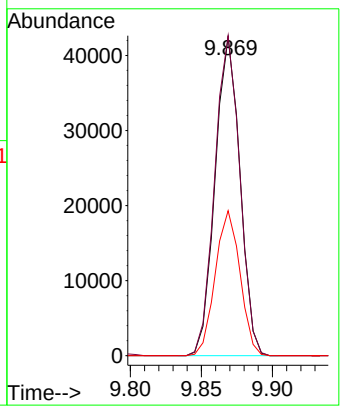





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.869 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:164 Resp: 5151

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 100.5 | 79.4 | 119.0 |
| 160 | 45.5 | 35.1 | 52.7 |




**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MS

**Manual Integrations**
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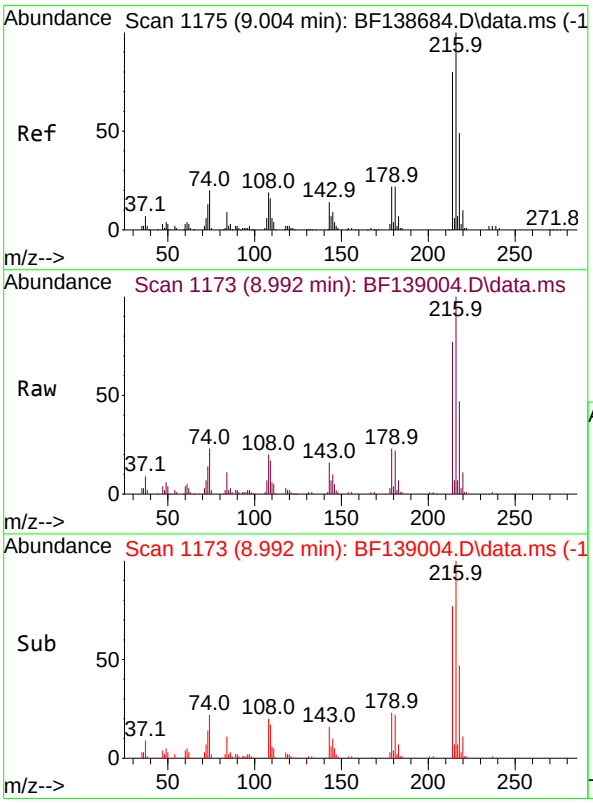
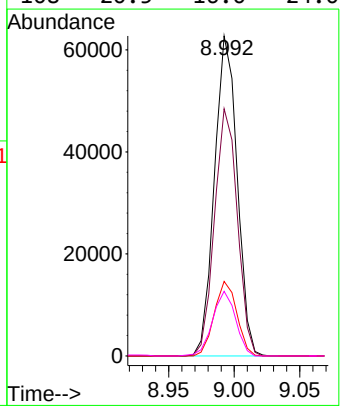
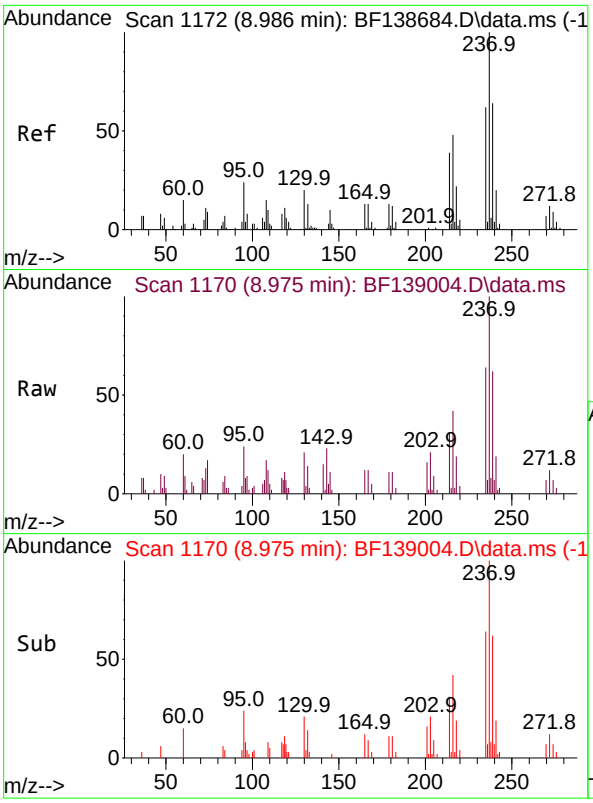



#40
1,2,4,5-Tetrachlorobenzene
Concen: 52.698 ng
RT: 8.992 min Scan# 1173
Delta R.T. -0.012 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:216 Resp: 75412

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 216 | 100 | | |
| 214 | 77.4 | 63.9 | 95.9 |
| 179 | 23.2 | 17.8 | 26.6 |
| 108 | 20.5 | 16.0 | 24.0 |

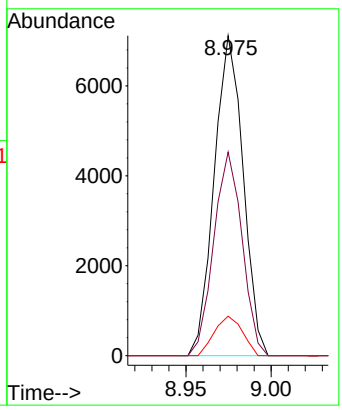





#41
Hexachlorocyclopentadiene
Concen: 27.200 ng
RT: 8.975 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

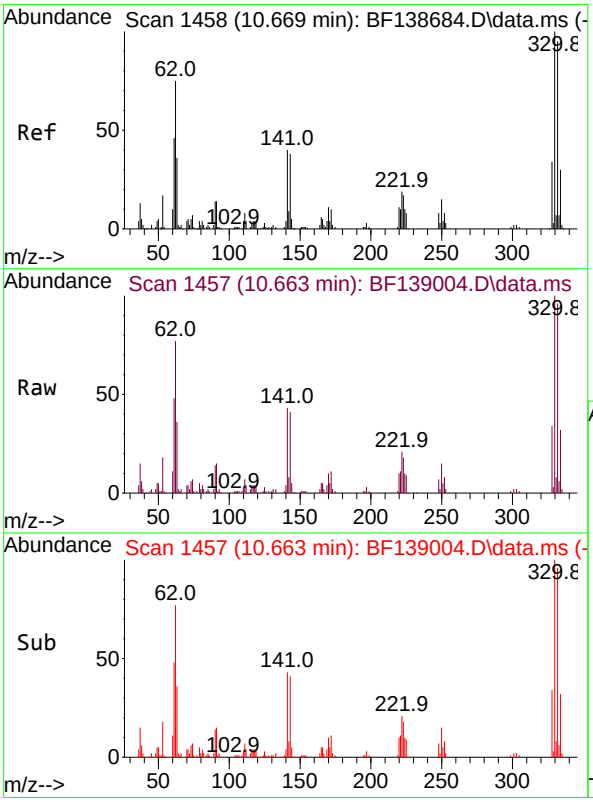
Tgt Ion:237 Resp: 839

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 237 | 100 | | |
| 235 | 63.6 | 41.8 | 81.8 |
| 272 | 12.4 | 0.0 | 32.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MS

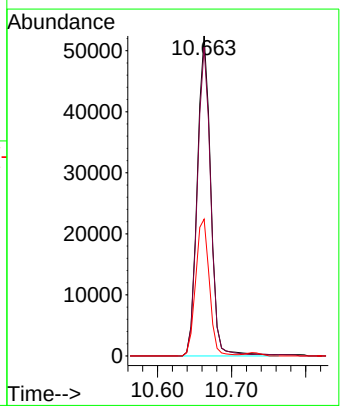
**Manual Integrations**
**APPROVED**
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

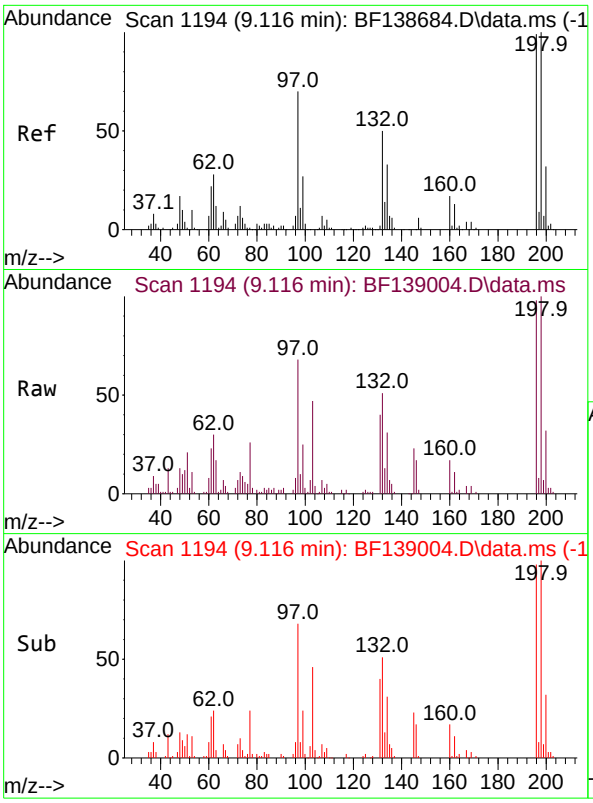



#42
2,4,6-Tribromophenol
Concen: 156.909 ng
RT: 10.663 min Scan# 1457
Delta R.T. -0.006 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:330 Resp: 66212

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 95.6 | 76.4 | 114.6 |
| 141 | 43.5 | 31.1 | 46.7 |

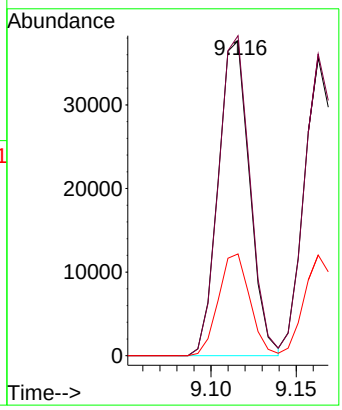





#43
2,4,6-Trichlorophenol
Concen: 55.446 ng
RT: 9.116 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:196 Resp: 4837

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 101.7 | 80.5 | 120.7 |
| 200 | 32.3 | 25.9 | 38.9 |




**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MS

**Manual Integrations**
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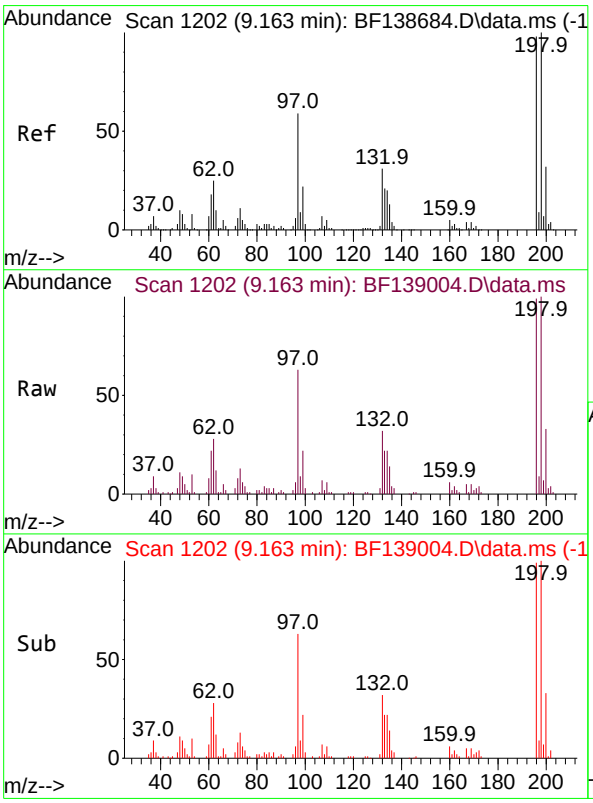
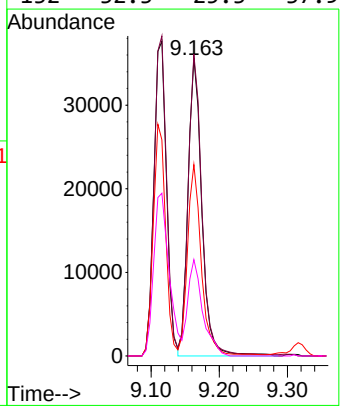
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

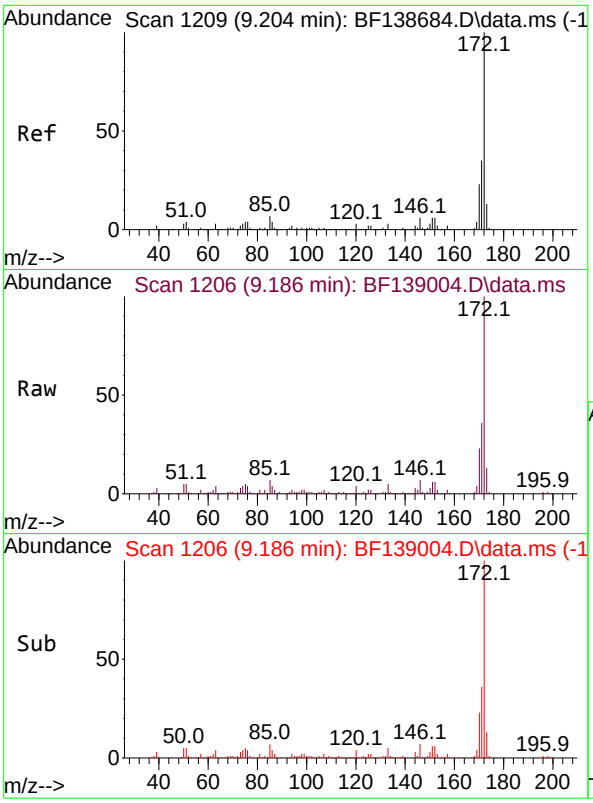



#44
2,4,5-Trichlorophenol
Concen: 52.173 ng
RT: 9.163 min Scan# 1202
Delta R.T. -0.000 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:196 Resp: 49765

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 101.3 | 81.2 | 121.8 |
| 97 | 64.2 | 47.8 | 71.6 |
| 132 | 32.3 | 25.3 | 37.9 |

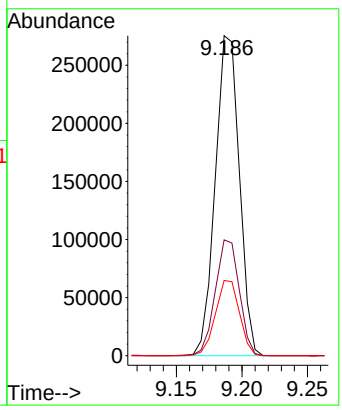





#45
2-Fluorobiphenyl
Concen: 102.583 ng
RT: 9.186 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:172 Resp: 35171

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.2 | 28.3 | 42.5 |
| 170 | 23.5 | 18.8 | 28.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MS

**Manual Integrations**
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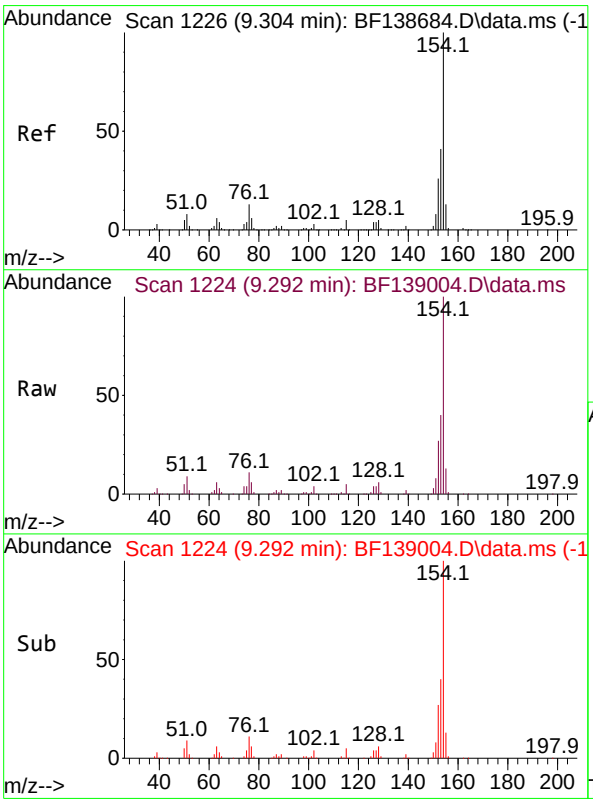
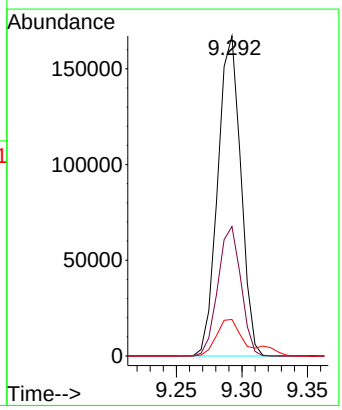
Supervised By :mohammad ahmed 08/16/2024

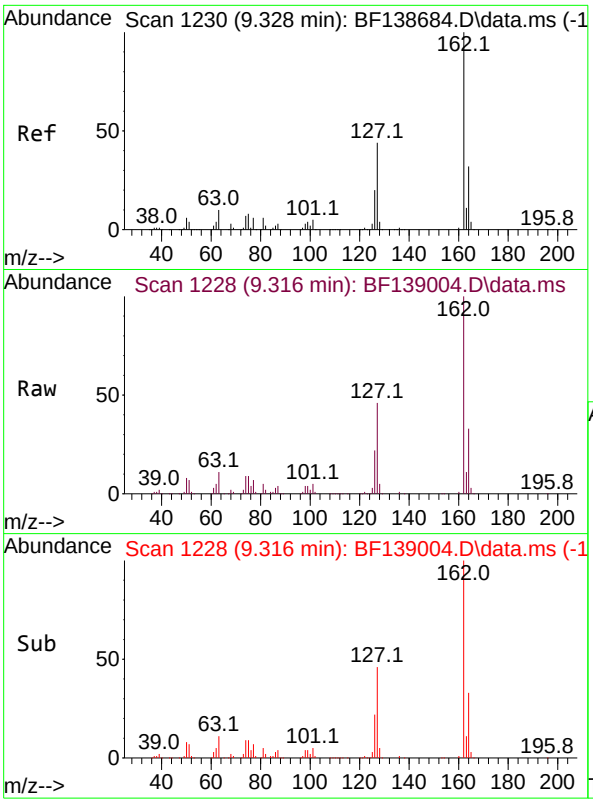



#46
1,1'-Biphenyl
Concen: 50.524 ng
RT: 9.292 min Scan# 1224
Delta R.T. -0.012 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:154 Resp: 203844

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 40.5 | 20.8 | 60.8 |
| 76 | 11.4 | 0.0 | 32.8 |

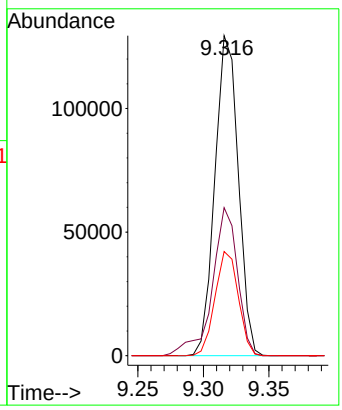





#47
2-Chloronaphthalene
Concen: 53.590 ng
RT: 9.316 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:162 Resp: 16080

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 127 | 46.3 | 35.4 | 53.2 |
| 164 | 32.6 | 25.6 | 38.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MS

**Manual Integrations**
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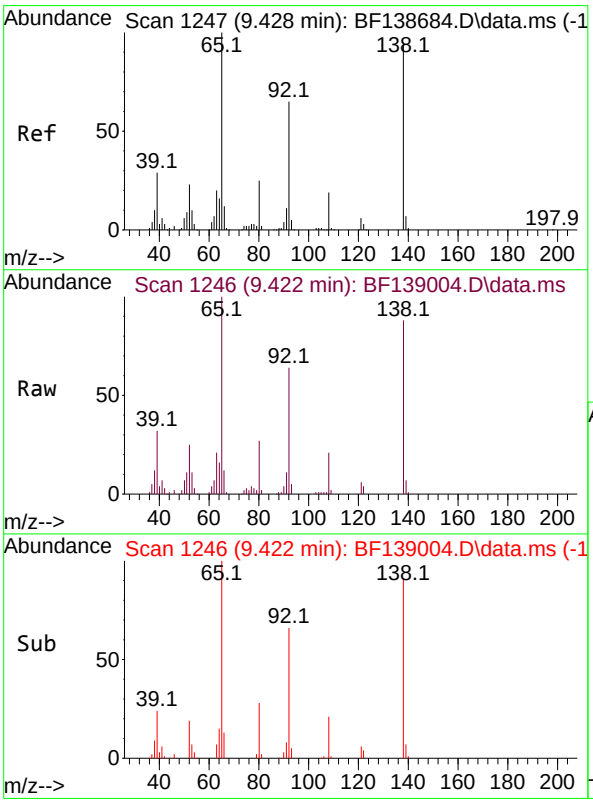
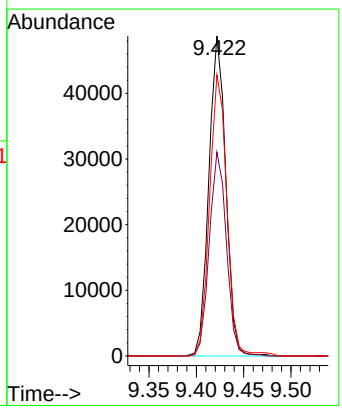
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

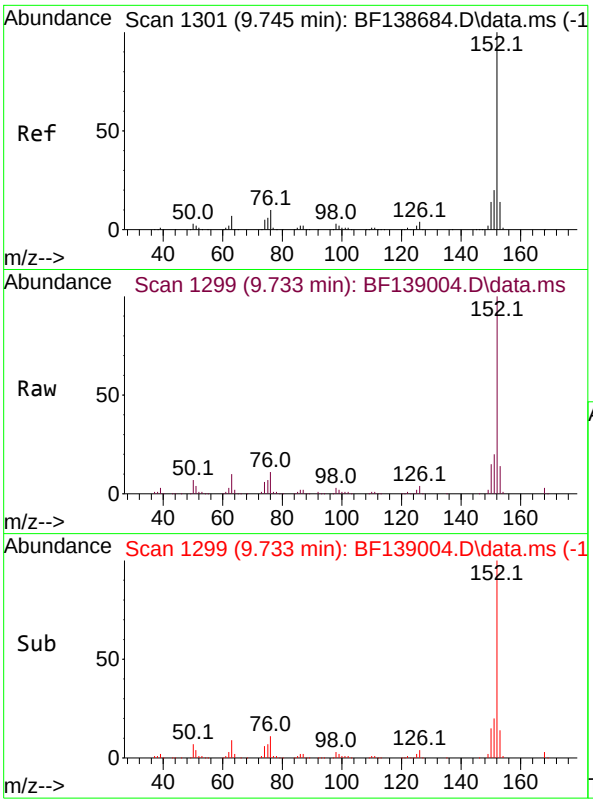



#48
2-Nitroaniline
Concen: 59.416 ng
RT: 9.422 min Scan# 1246
Delta R.T. -0.006 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion: 65 Resp: 60441

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 92 | 63.7 | 52.0 | 78.0 |
| 138 | 87.8 | 76.2 | 114.4 |

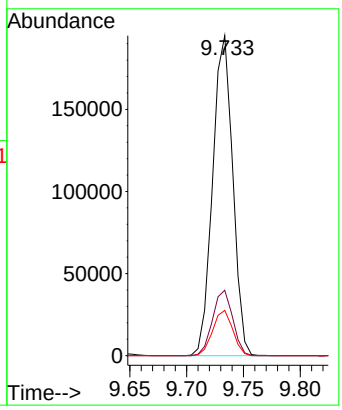





#49
Acenaphthylene
Concen: 56.442 ng
RT: 9.733 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:152 Resp: 24020

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.5 | 16.0 | 24.0 |
| 153 | 14.1 | 11.0 | 16.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MS

**Manual Integrations**
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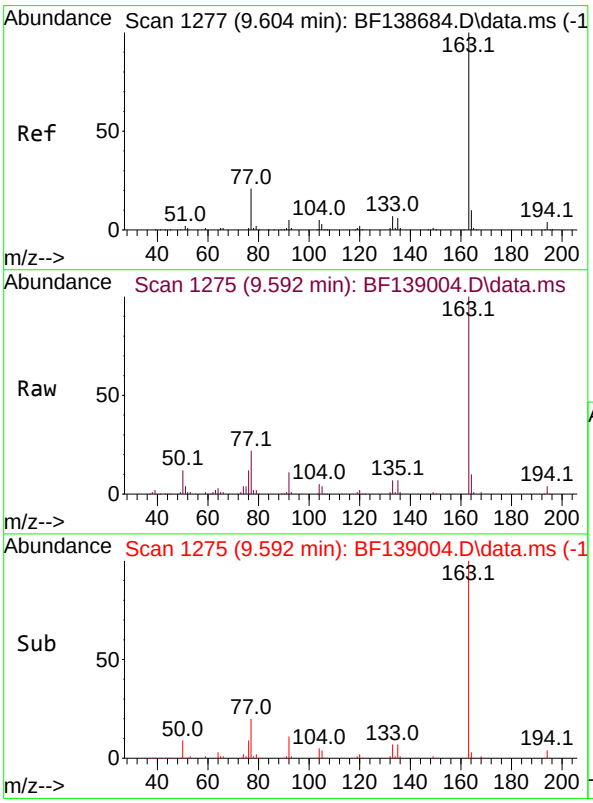
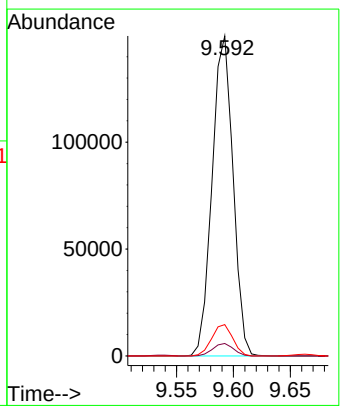
Supervised By :mohammad ahmed 08/16/2024

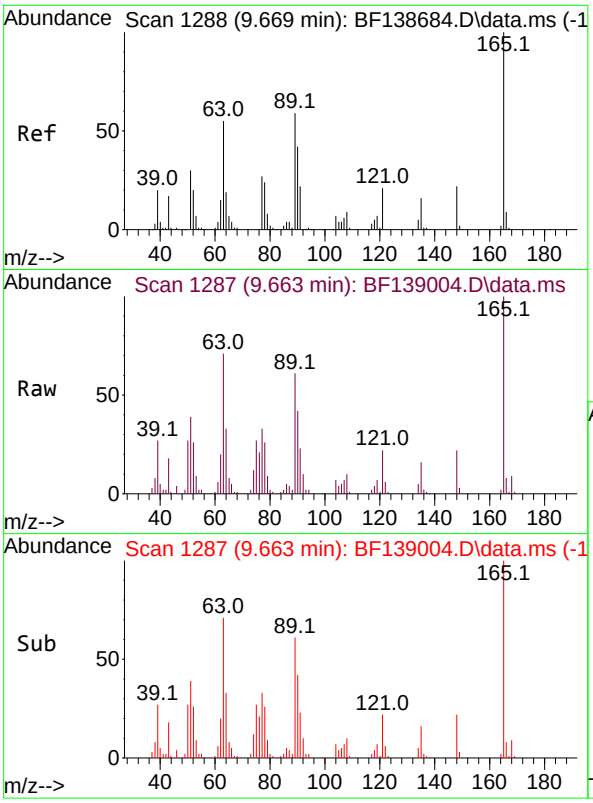



#50
Dimethylphthalate
Concen: 58.201 ng
RT: 9.592 min Scan# 1275
Delta R.T. -0.012 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:163 Resp: 191710

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 3.9 | 3.1 | 4.7 |
| 164 | 9.8 | 7.8 | 11.8 |






#51
2,6-Dinitrotoluene
Concen: 56.199 ng
RT: 9.663 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:165 Resp: 4177

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 71.1 | 52.0 | 78.0 |
| 89 | 60.8 | 47.0 | 70.6 |

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MS

**Manual Integrations**
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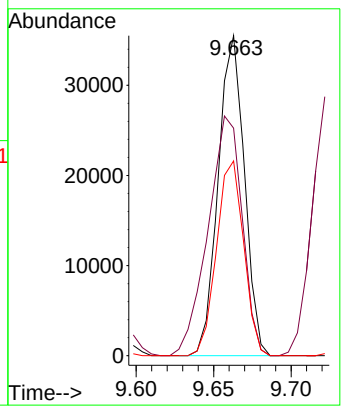
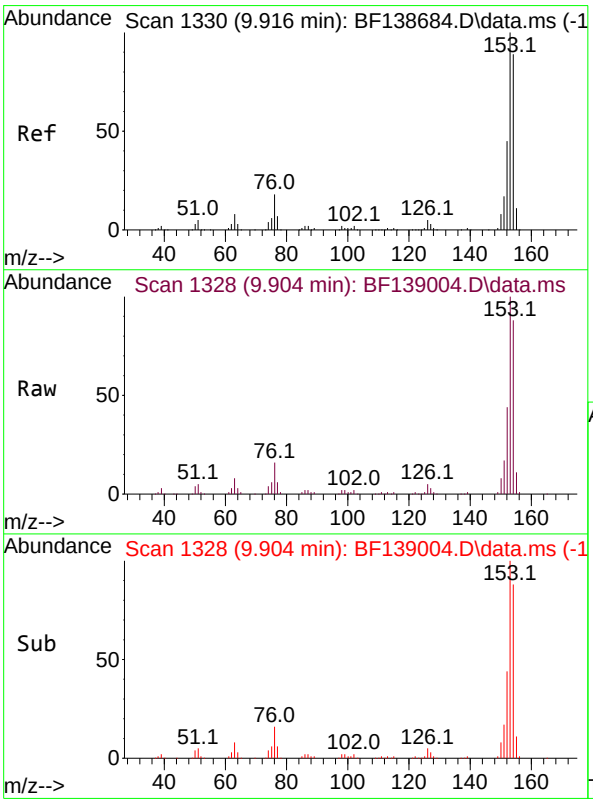
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

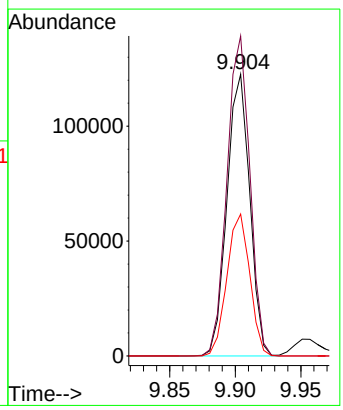


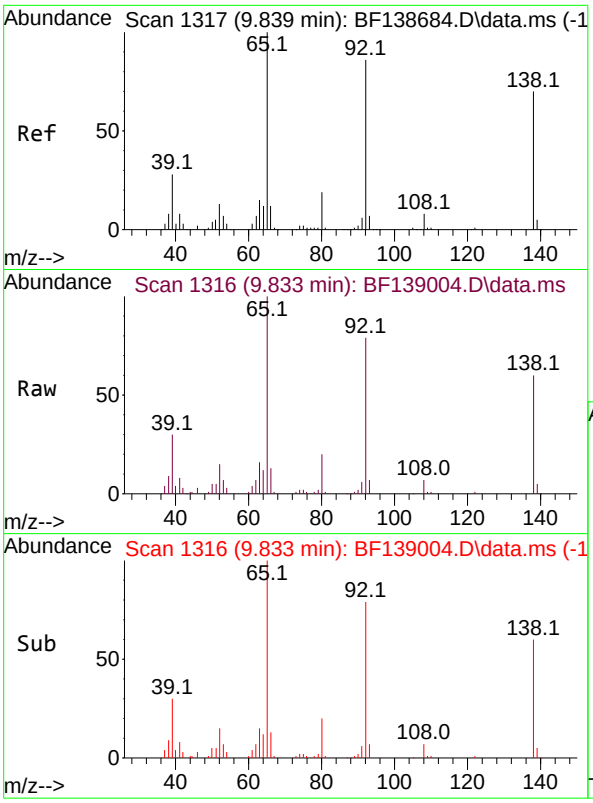




#52
Acenaphthene
Concen: 51.819 ng
RT: 9.904 min Scan# 1328
Delta R.T. -0.012 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:154 Resp: 148246

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 113.6 | 89.9 | 134.9 |
| 152 | 50.4 | 40.6 | 60.8 |

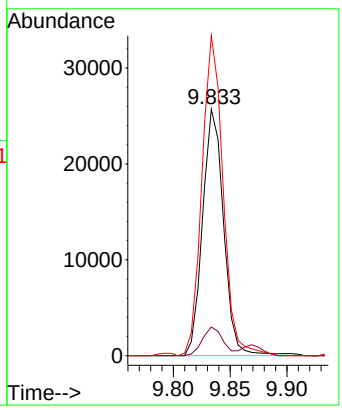





#53
3-Nitroaniline
Concen: 42.929 ng
RT: 9.833 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:138 Resp: 3299

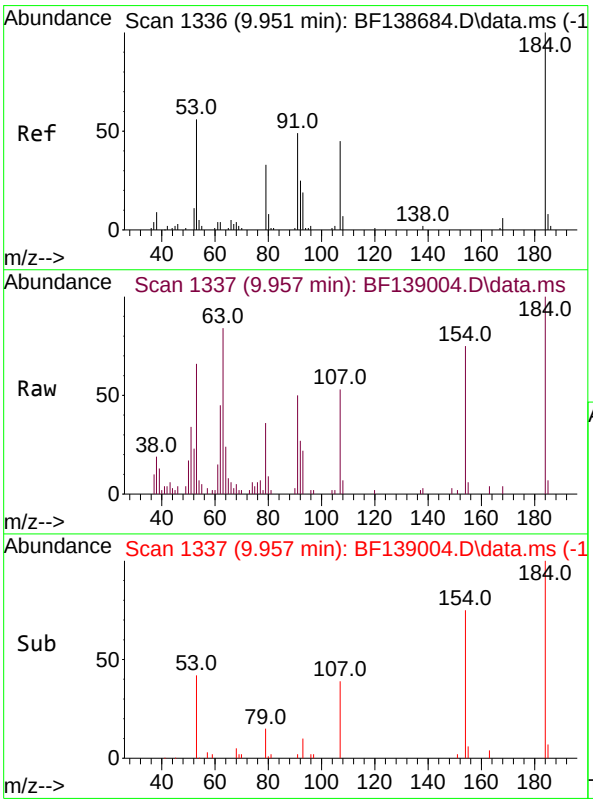
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 108 | 11.6 | 9.1 | 13.7 |
| 92 | 129.8 | 98.7 | 148.1 |




**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MS

**Manual Integrations APPROVED**

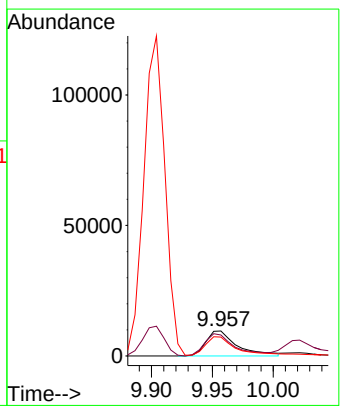
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

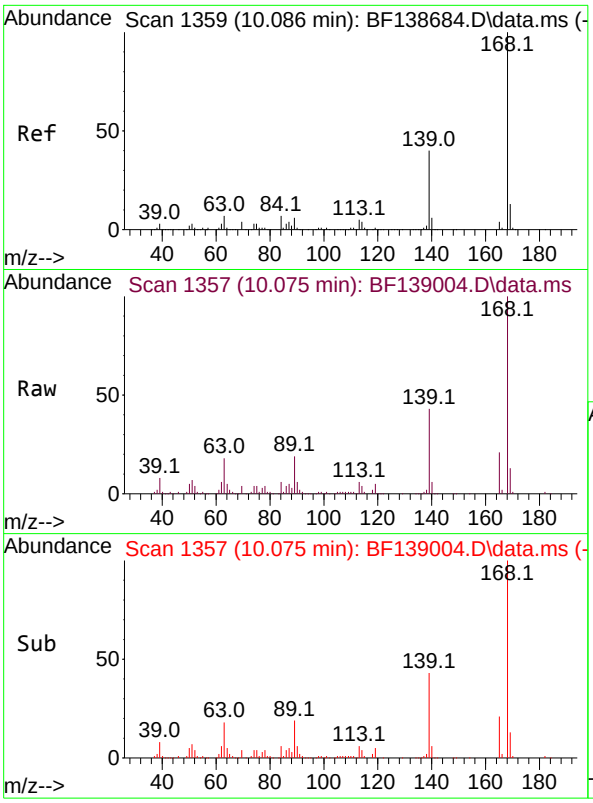



#54
2,4-Dinitrophenol
Concen: 49.912 ng
RT: 9.957 min Scan# 1337
Delta R.T. 0.006 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:184 Resp: 17080

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 63 | 83.9 | 57.5 | 86.3 |
| 154 | 75.3 | 51.7 | 77.5 |

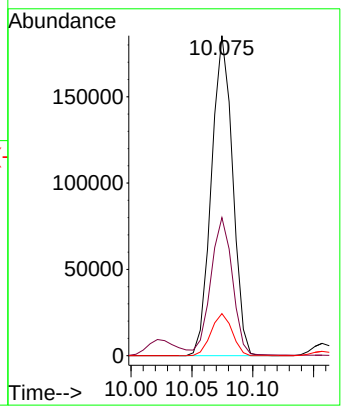





#55
Dibenzofuran
Concen: 55.458 ng
RT: 10.075 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:168 Resp: 22396

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 43.2 | 32.6 | 49.0 |
| 169 | 13.1 | 10.7 | 16.1 |




**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MS

**Manual Integrations**
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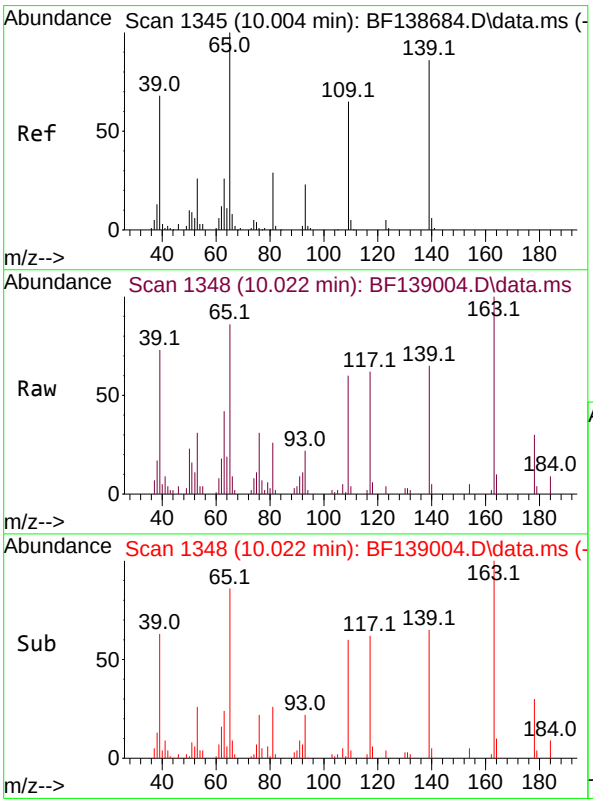
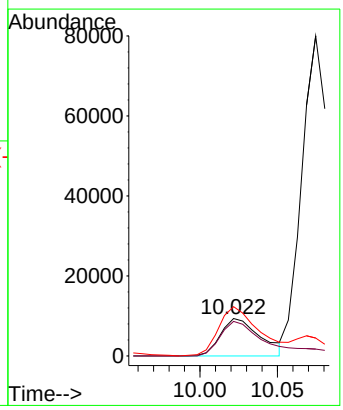
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

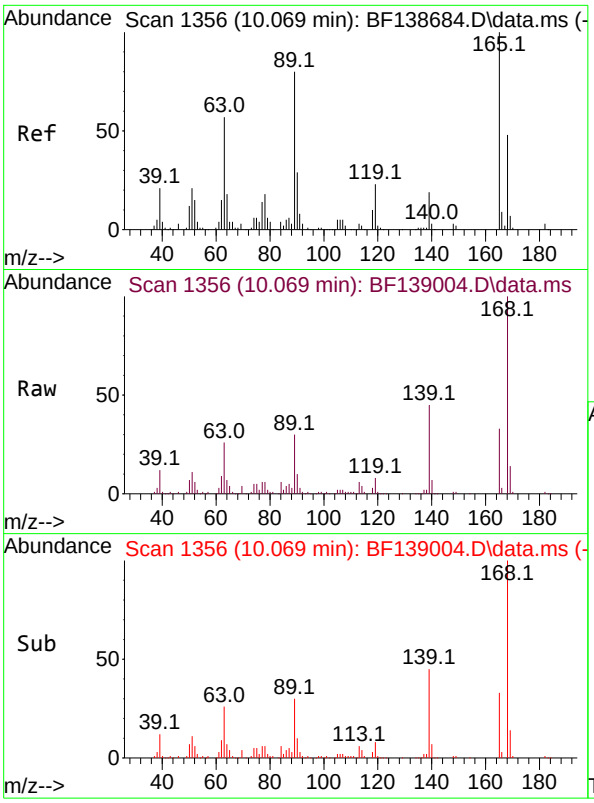



#56
4-Nitrophenol
Concen: 35.942 ng
RT: 10.022 min Scan# 1348
Delta R.T. 0.018 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:139 Resp: 16610

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 92.4 | 55.5 | 95.5 |
| 65 | 131.8 | 96.7 | 136.7 |

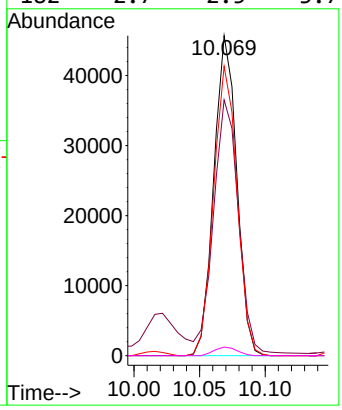





#57
2,4-Dinitrotoluene
Concen: 58.431 ng
RT: 10.069 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:165 Resp: 5541

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 80.0 | 46.3 | 69.5 |
| 89 | 90.4 | 64.2 | 96.4 |
| 182 | 2.7 | 2.5 | 3.7 |




**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MS

**Manual Integrations**
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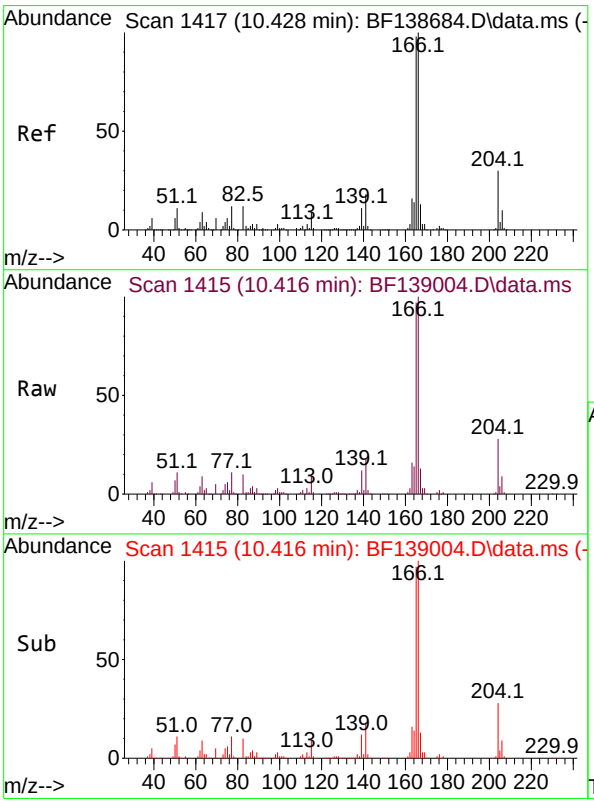
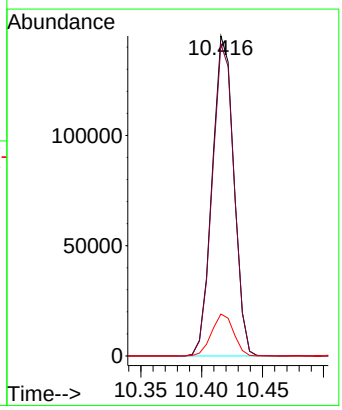
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

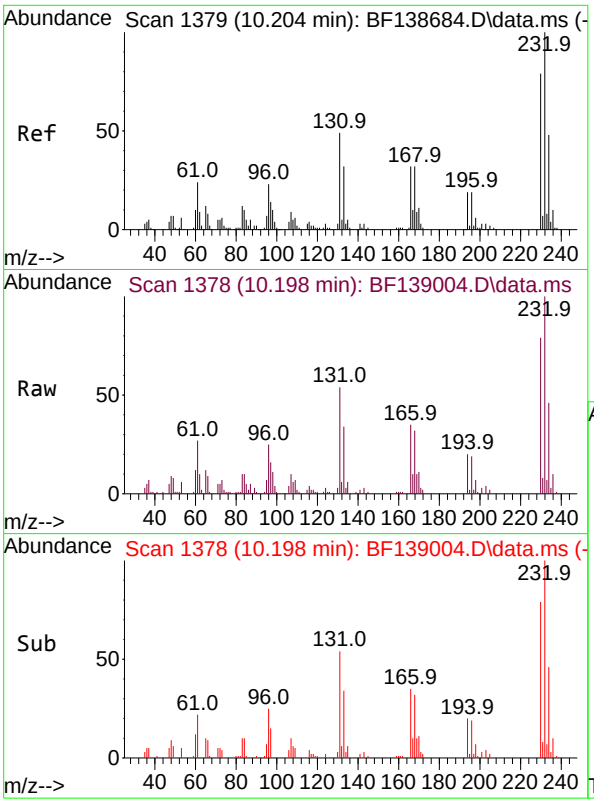



#58
Fluorene
Concen: 55.844 ng
RT: 10.416 min Scan# 1415
Delta R.T. -0.012 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:166 Resp: 179589

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 97.5 | 78.4 | 117.6 |
| 167 | 13.1 | 10.6 | 16.0 |

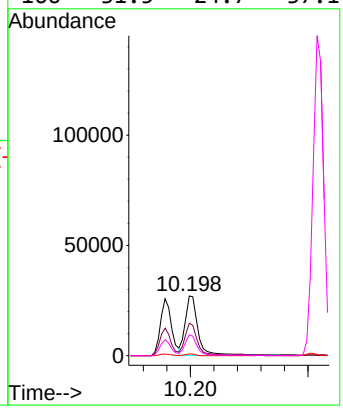





#59
2,3,4,6-Tetrachlorophenol
Concen: 55.559 ng
RT: 10.198 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:232 Resp: 4051

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 232 | 100 | | |
| 131 | 51.3 | 37.0 | 55.4 |
| 130 | 2.3 | 2.0 | 3.0 |
| 166 | 31.5 | 24.7 | 37.1 |




**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MS

**Manual Integrations**
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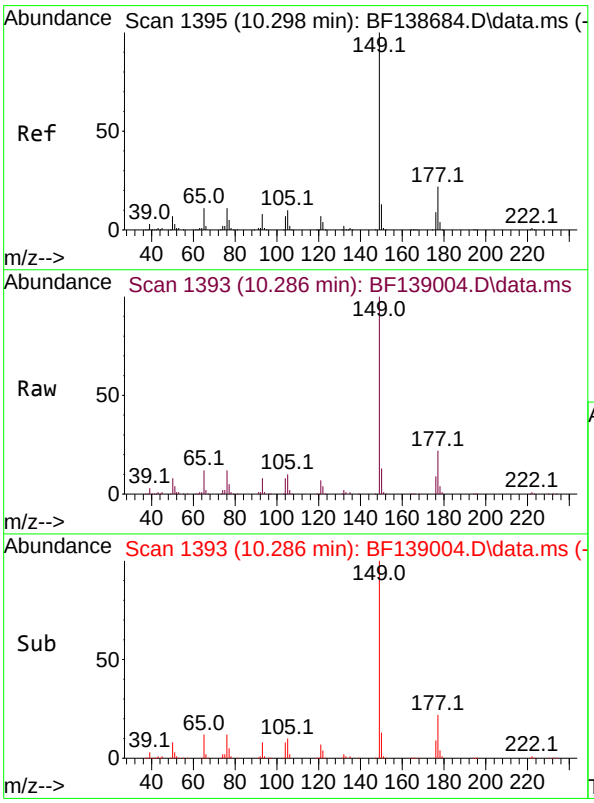
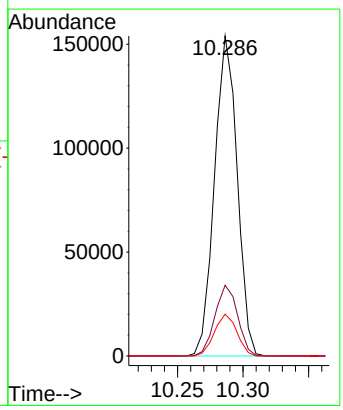
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

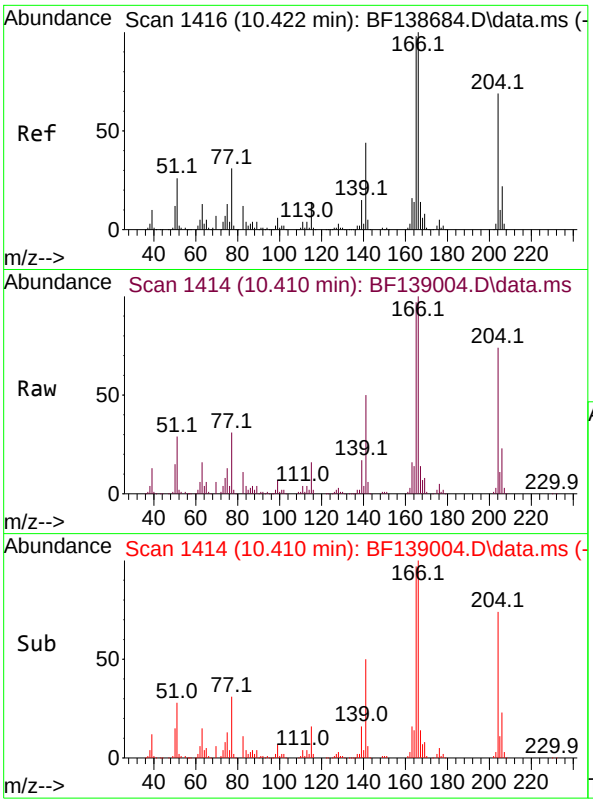



#60
Diethylphthalate
Concen: 59.168 ng
RT: 10.286 min Scan# 1393
Delta R.T. -0.012 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:149 Resp: 184795

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 177 | 22.1 | 17.8 | 26.8 |
| 150 | 13.0 | 10.1 | 15.1 |

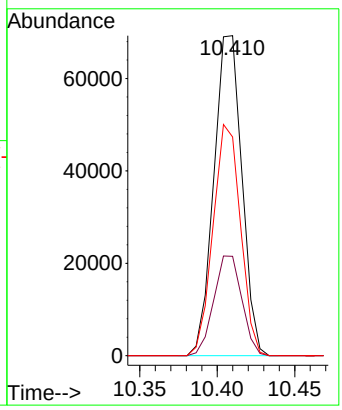





#61
4-Chlorophenyl-phenylether
Concen: 55.223 ng
RT: 10.410 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:204 Resp: 8734

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 204 | 100 | | |
| 206 | 31.0 | 26.1 | 39.1 |
| 141 | 68.3 | 51.4 | 77.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MS

**Manual Integrations**
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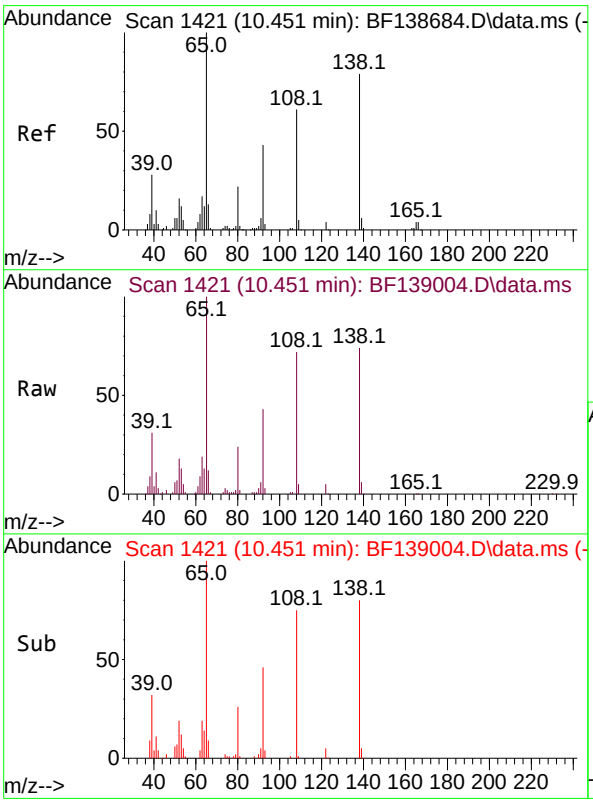
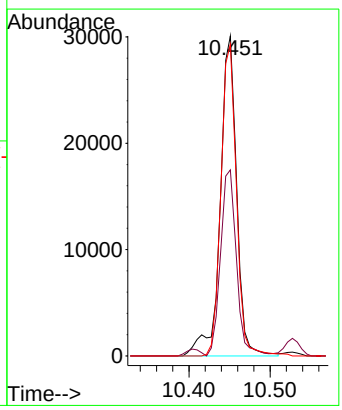
Supervised By :mohammad ahmed 08/16/2024

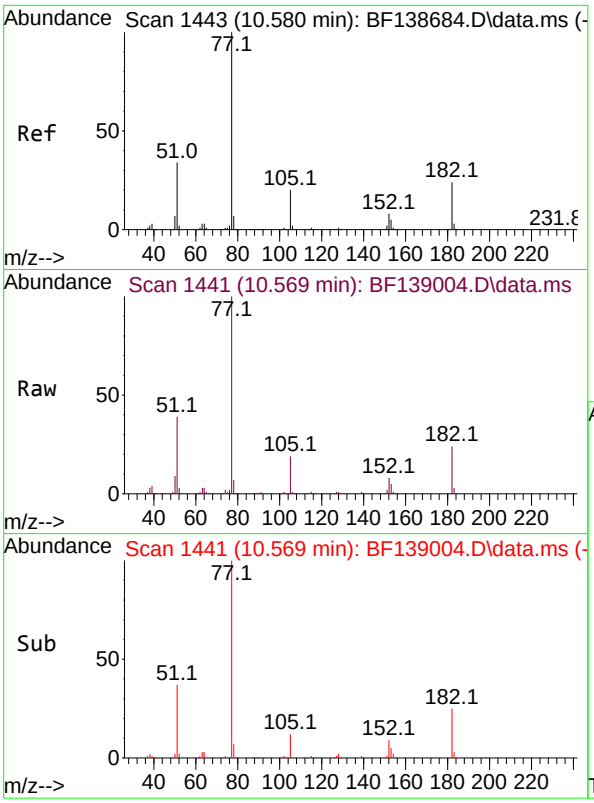



#62
4-Nitroaniline
Concen: 58.155 ng
RT: 10.451 min Scan# 1421
Delta R.T. -0.000 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:138 Resp: 42471

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 58.1 | 34.2 | 74.2 |
| 108 | 97.4 | 56.2 | 96.2# |

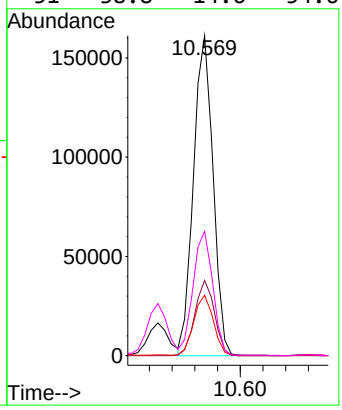





#63
Azobenzene
Concen: 55.922 ng
RT: 10.569 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion: 77 Resp: 19371

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 182 | 23.6 | 3.4 | 43.4 |
| 105 | 18.9 | 0.2 | 40.2 |
| 51 | 38.8 | 14.6 | 54.6 |




**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MS

**Manual Integrations**
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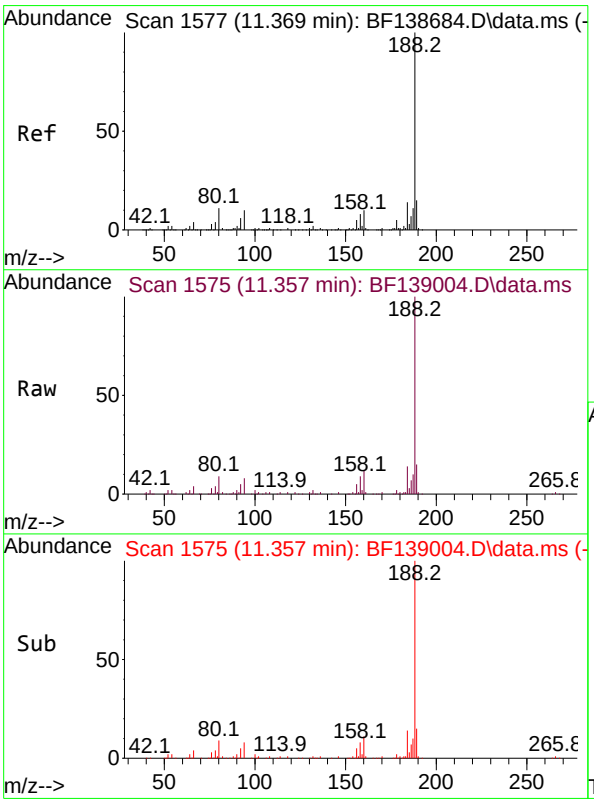
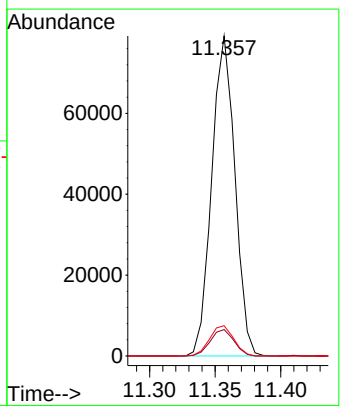
Supervised By :mohammad ahmed 08/16/2024

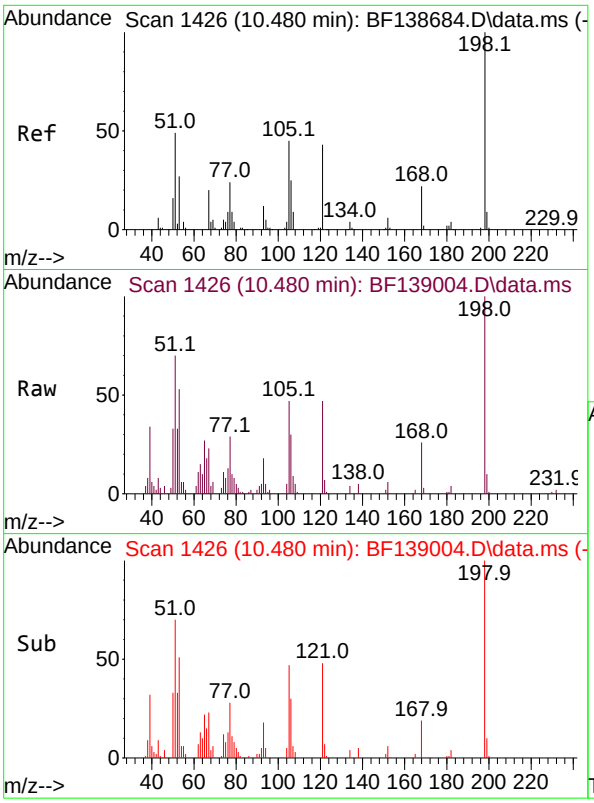



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.357 min Scan# 1575
Delta R.T. -0.012 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:188 Resp: 97165

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 8.3 | 7.6 | 11.4 |
| 80 | 9.4 | 8.6 | 12.8 |

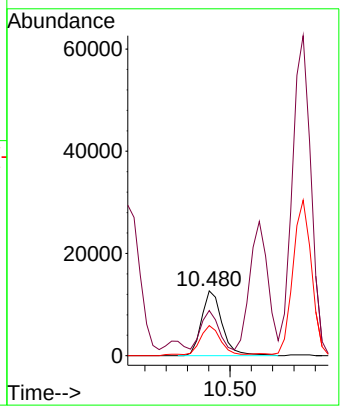





#65
4,6-Dinitro-2-methylphenol
Concen: 28.654 ng
RT: 10.480 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:198 Resp: 1698

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 69.7 | 39.9 | 79.9 |
| 105 | 46.5 | 26.1 | 66.1 |




**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MS

**Manual Integrations**
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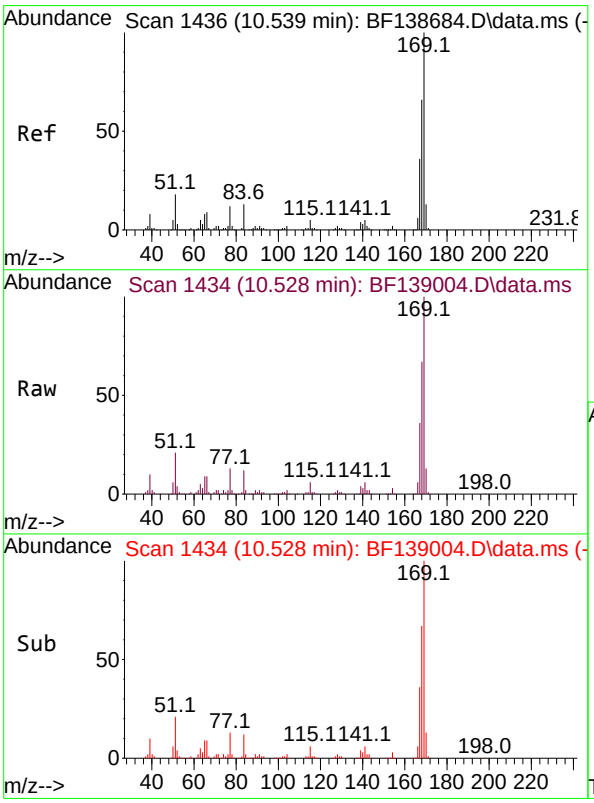
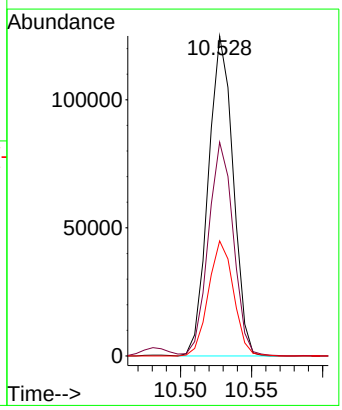
Supervised By :mohammad ahmed 08/16/2024

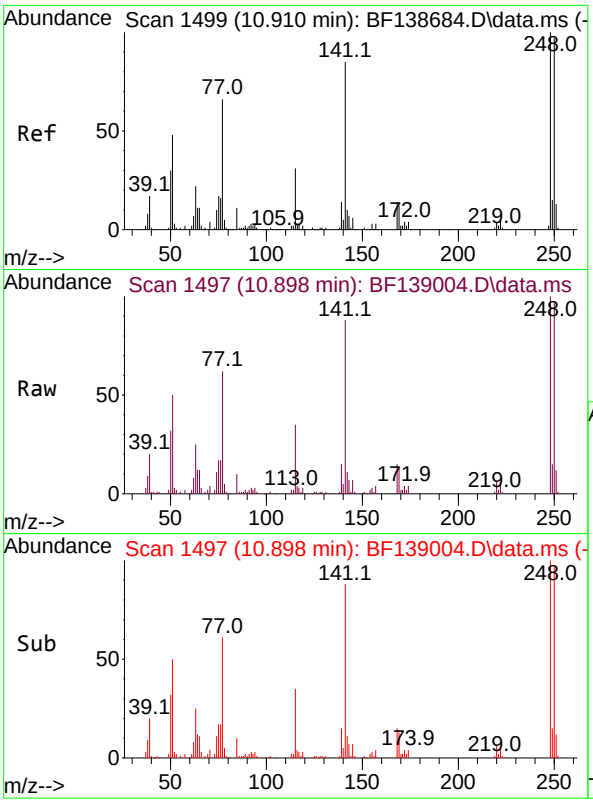



#66
n-Nitrosodiphenylamine
Concen: 49.925 ng
RT: 10.528 min Scan# 1434
Delta R.T. -0.012 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:169 Resp: 151630

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 66.8 | 53.0 | 79.6 |
| 167 | 35.9 | 29.0 | 43.6 |

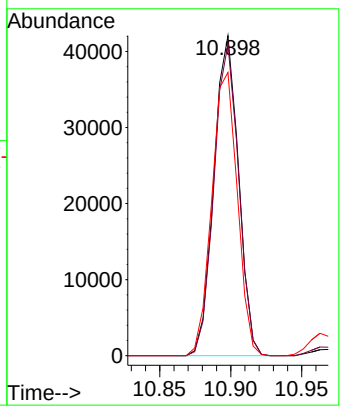





#67
4-Bromophenyl-phenylether
Concen: 48.217 ng
RT: 10.898 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:248 Resp: 5072

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 97.4 | 77.7 | 116.5 |
| 141 | 88.5 | 68.0 | 102.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MS

**Manual Integrations**
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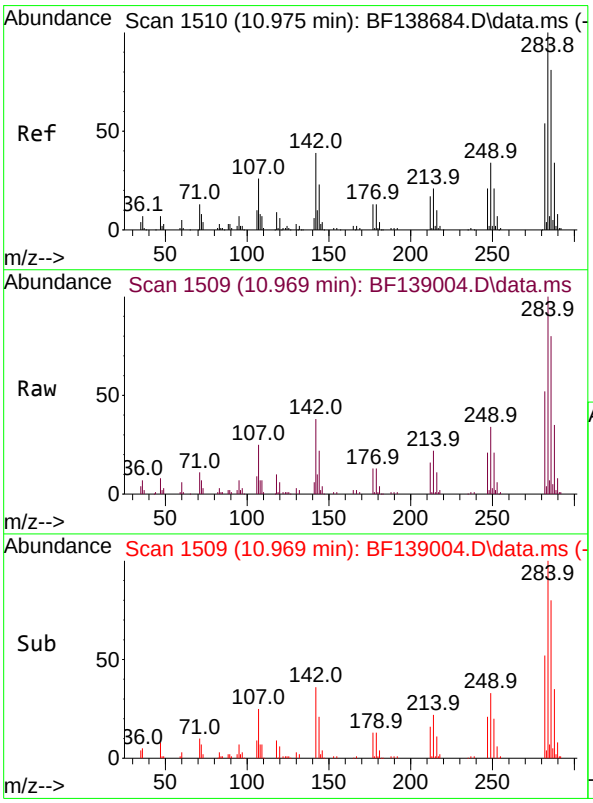
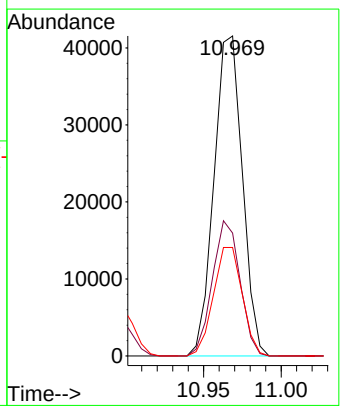
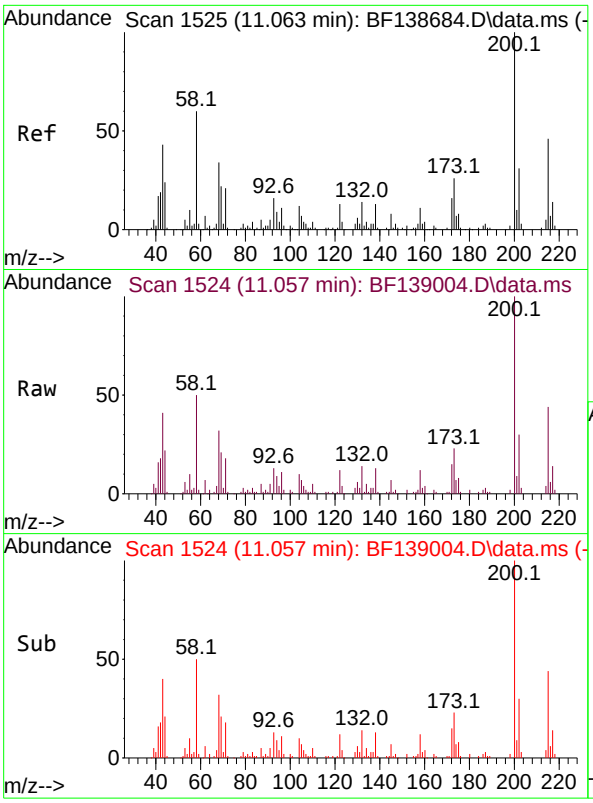



#68
Hexachlorobenzene
Concen: 48.653 ng
RT: 10.969 min Scan# 1509
Delta R.T. -0.006 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:284 Resp: 52847

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 38.4 | 31.3 | 46.9 |
| 249 | 33.9 | 27.2 | 40.8 |

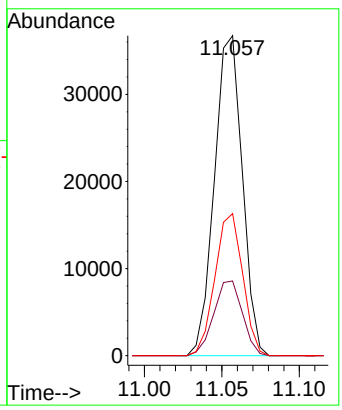





#69
Atrazine
Concen: 58.672 ng
RT: 11.057 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:200 Resp: 4597

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 23.4 | 6.0 | 46.0 |
| 215 | 44.4 | 26.1 | 66.1 |




**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MS

**Manual Integrations**
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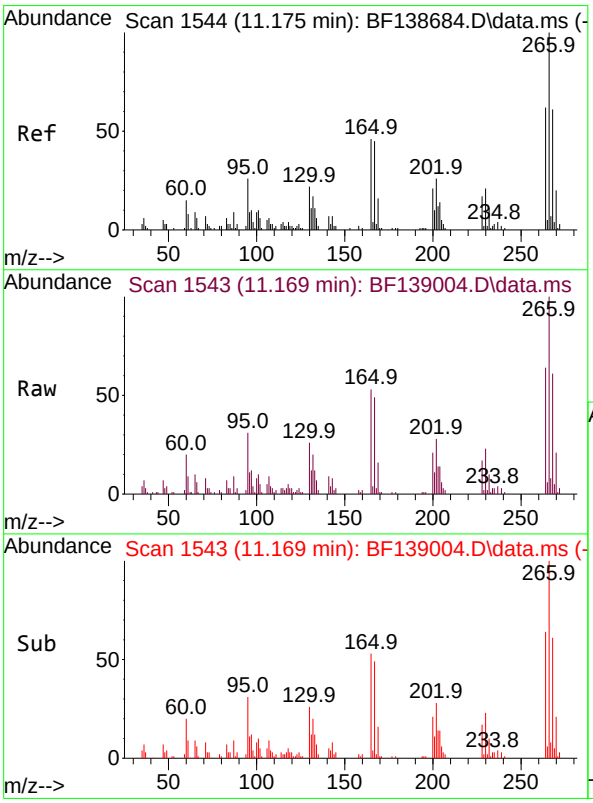
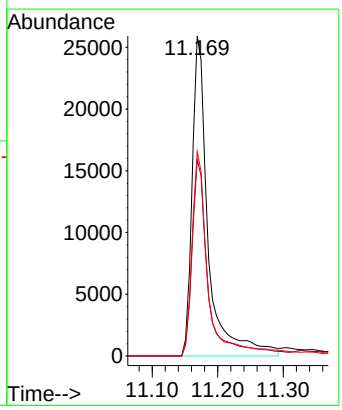
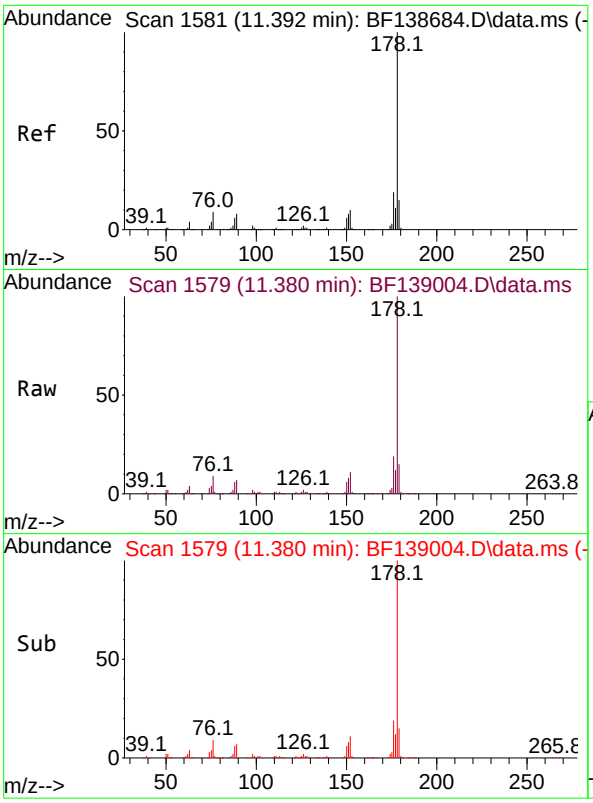



#70
Pentachlorophenol
Concen: 90.567 ng
RT: 11.169 min Scan# 1543
Delta R.T. -0.006 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:266 Resp: 44341

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 268 | 61.3 | 49.2 | 73.8 |
| 264 | 63.8 | 49.8 | 74.6 |

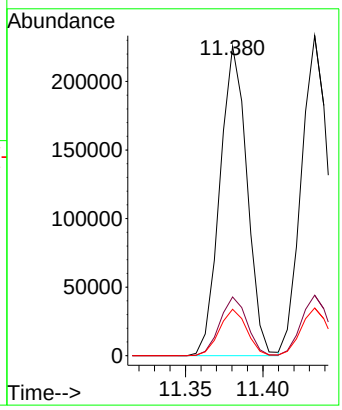





#71
Phenanthrene
Concen: 54.963 ng
RT: 11.380 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:178 Resp: 27499

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.0 | 15.4 | 23.0 |
| 179 | 15.0 | 12.2 | 18.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MS

**Manual Integrations**
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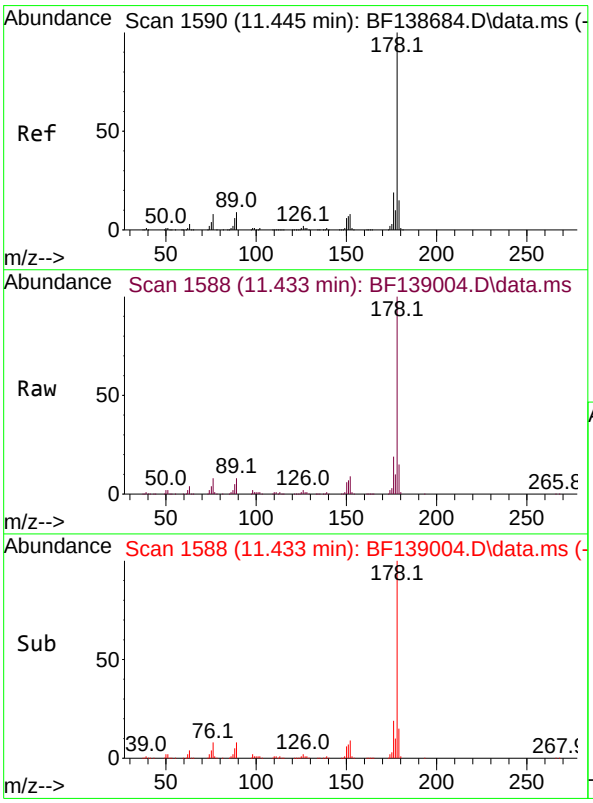
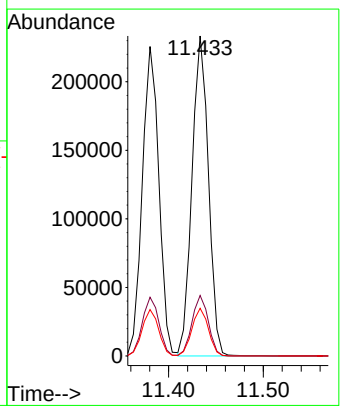
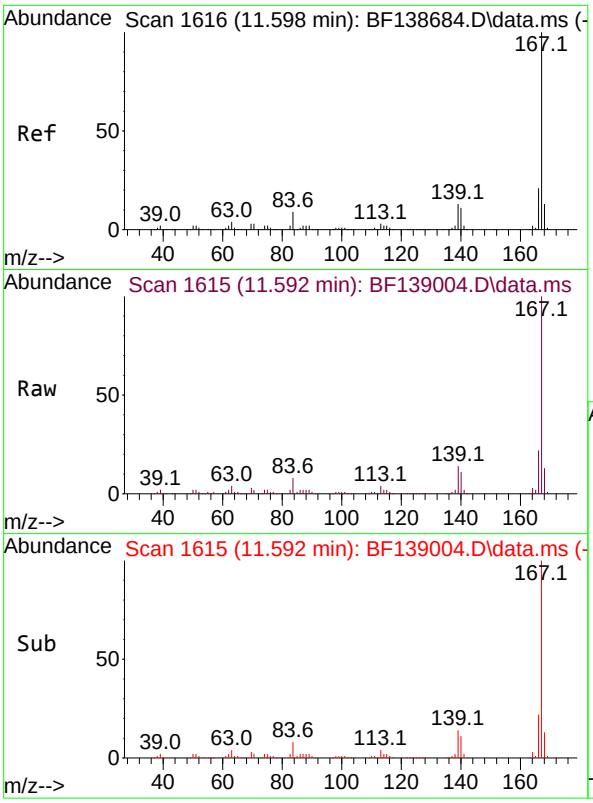



#72
Anthracene
Concen: 57.242 ng
RT: 11.433 min Scan# 1588
Delta R.T. -0.012 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:178 Resp: 282138

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.9 | 14.9 | 22.3 |
| 179 | 14.9 | 12.4 | 18.6 |

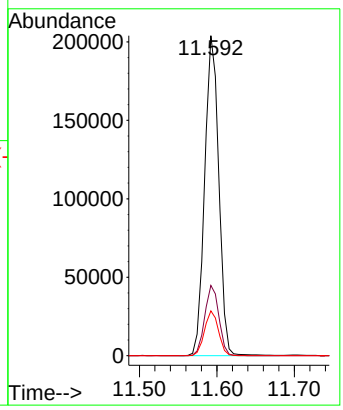





#73
Carbazole
Concen: 60.606 ng
RT: 11.592 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:167 Resp: 25771

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 22.0 | 17.2 | 25.8 |
| 139 | 14.0 | 10.6 | 16.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MS

**Manual Integrations**
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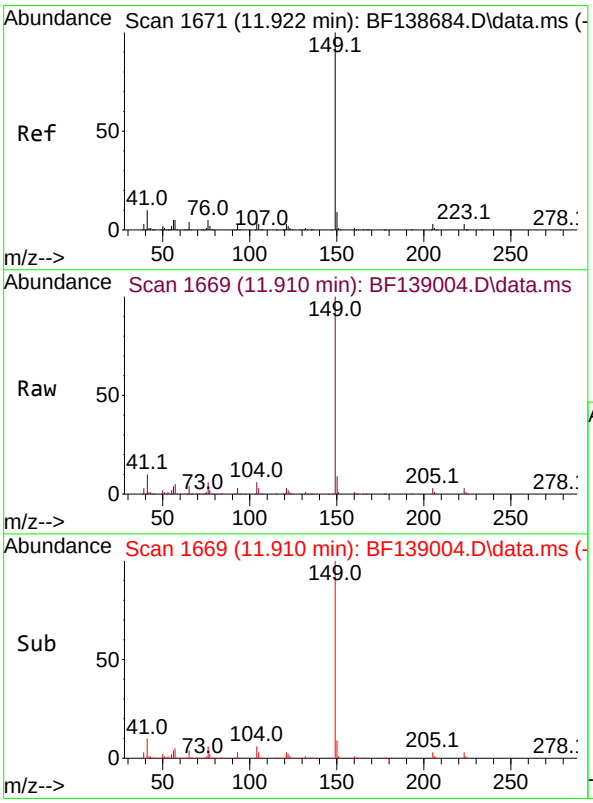
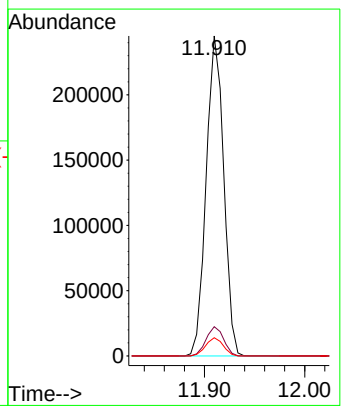
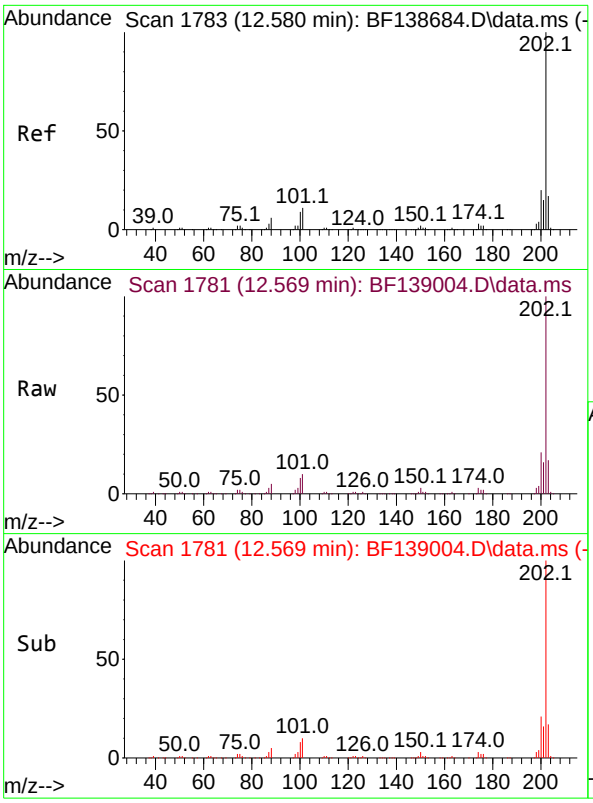



#74
Di-n-butylphthalate
Concen: 62.335 ng
RT: 11.910 min Scan# 1669
Delta R.T. -0.012 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:149 Resp: 297984

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 9.2 | 7.4 | 11.0 |
| 104 | 5.7 | 4.1 | 6.1 |

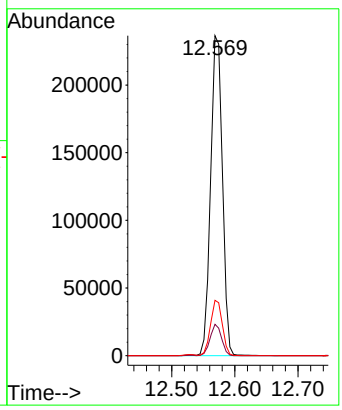





#75
Fluoranthene
Concen: 65.900 ng
RT: 12.569 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:202 Resp: 30780

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 9.8 | 0.0 | 31.2 |
| 203 | 17.3 | 0.0 | 37.3 |




**Instrument :**
BNA_F
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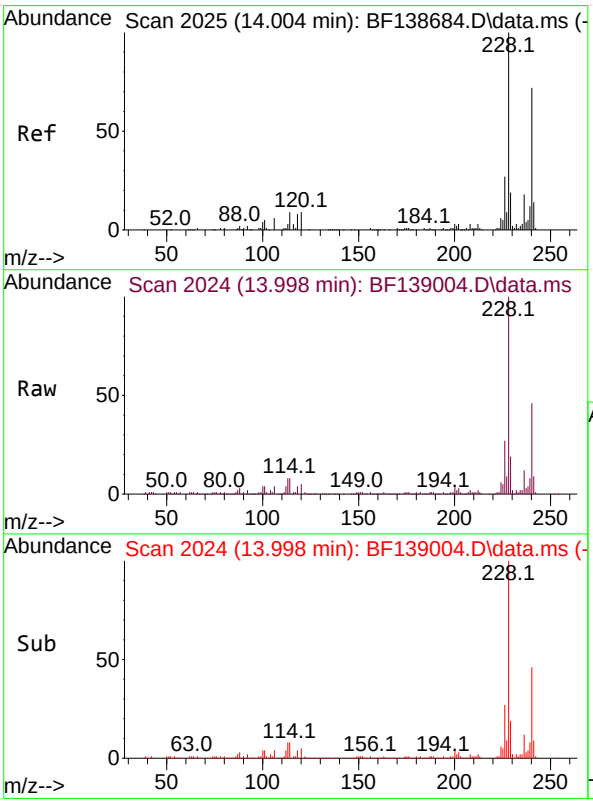
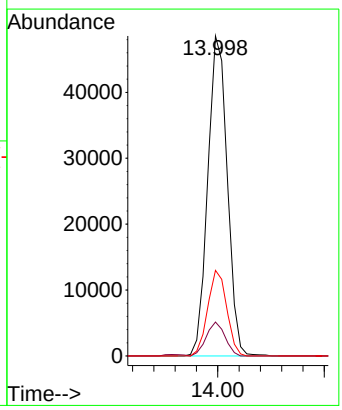
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

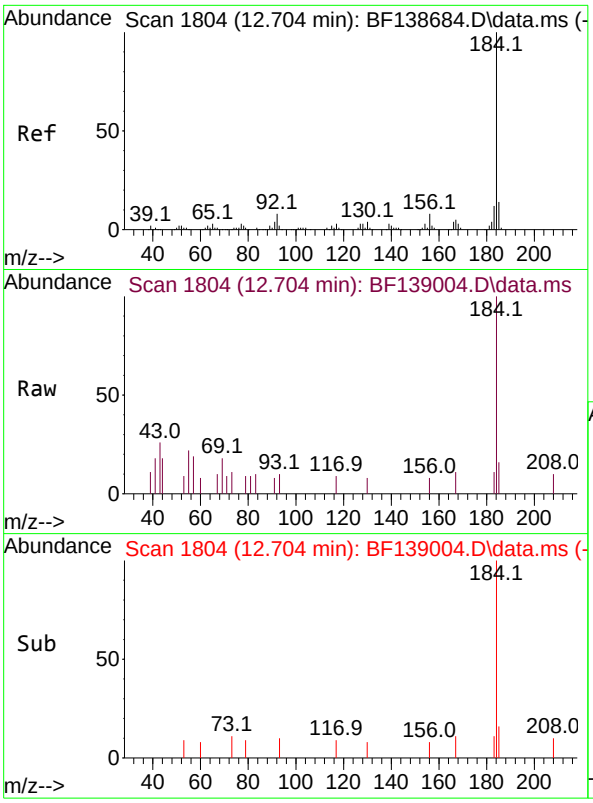



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.998 min Scan# 2024
Delta R.T. -0.006 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:240 Resp: 61682

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 10.6 | 10.2 | 15.4 |
| 236 | 26.8 | 19.8 | 29.8 |

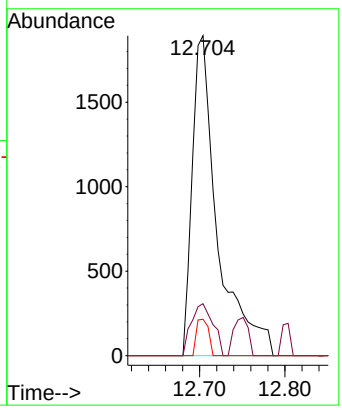





#77
Benzidine
Concen: 2.653 ng
RT: 12.704 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

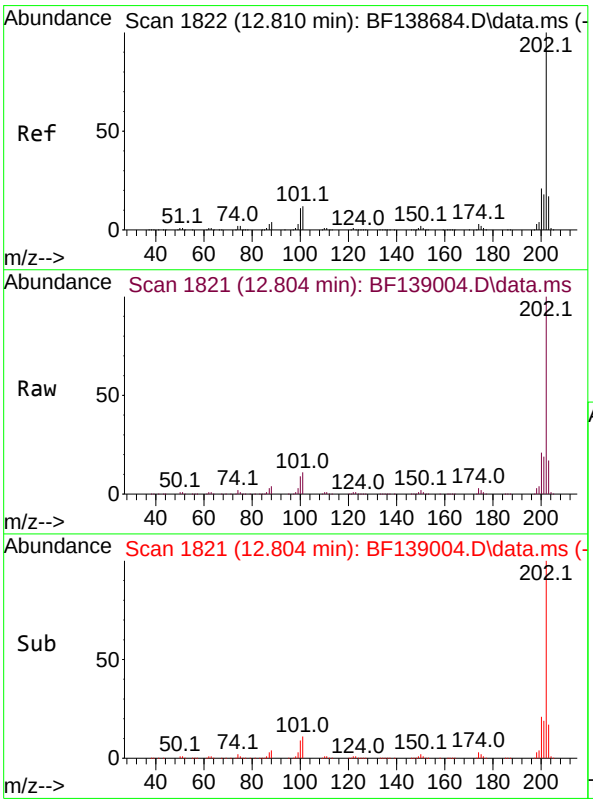
Tgt Ion:184 Resp: 391

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 185 | 16.3 | 11.1 | 16.7 |
| 183 | 11.4 | 9.6 | 14.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MS

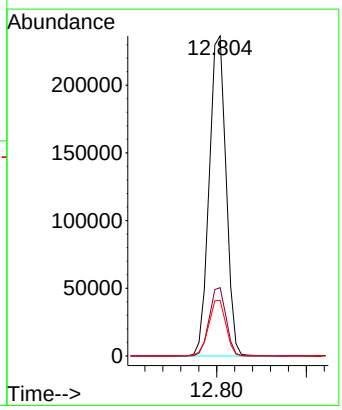
**Manual Integrations**
**APPROVED**
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

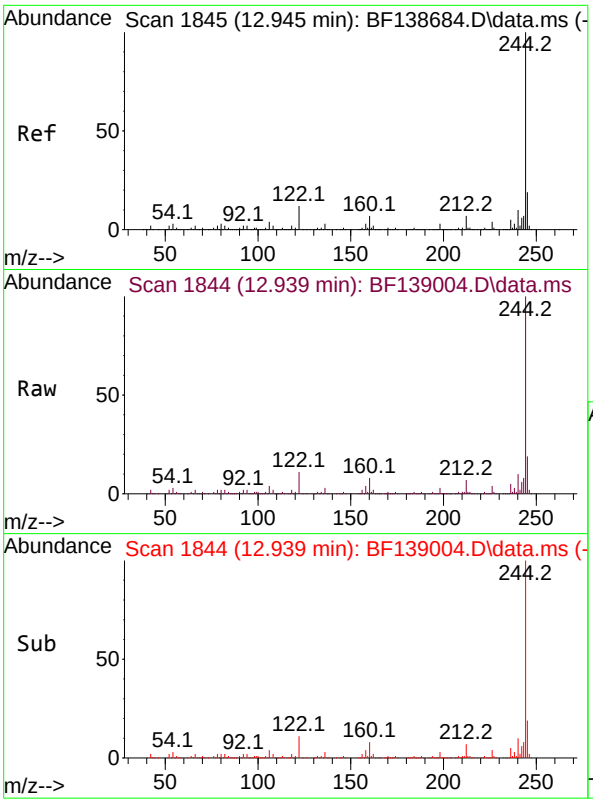



#78
Pyrene
Concen: 53.102 ng
RT: 12.804 min Scan# 1821
Delta R.T. -0.006 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:202 Resp: 308391

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.4 | 16.8 | 25.2 |
| 203 | 17.4 | 13.8 | 20.6 |

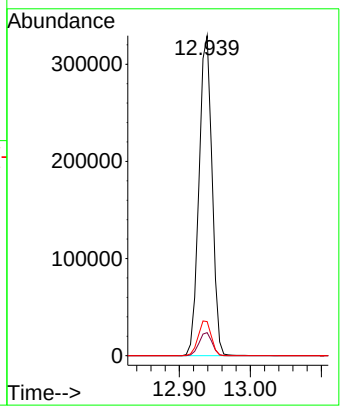





#79
Terphenyl-d14
Concen: 114.503 ng
RT: 12.939 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

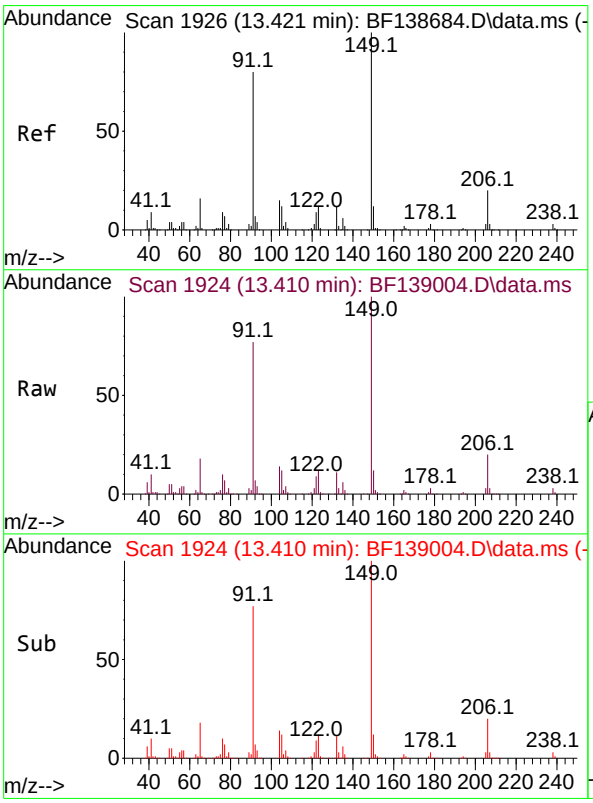
Tgt Ion:244 Resp: 42184

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.2 | 5.4 | 8.2 |
| 122 | 10.6 | 9.6 | 14.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MS

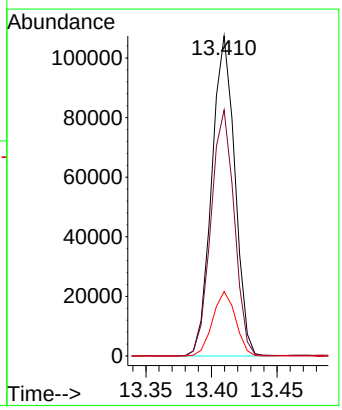
**Manual Integrations**
**APPROVED**
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

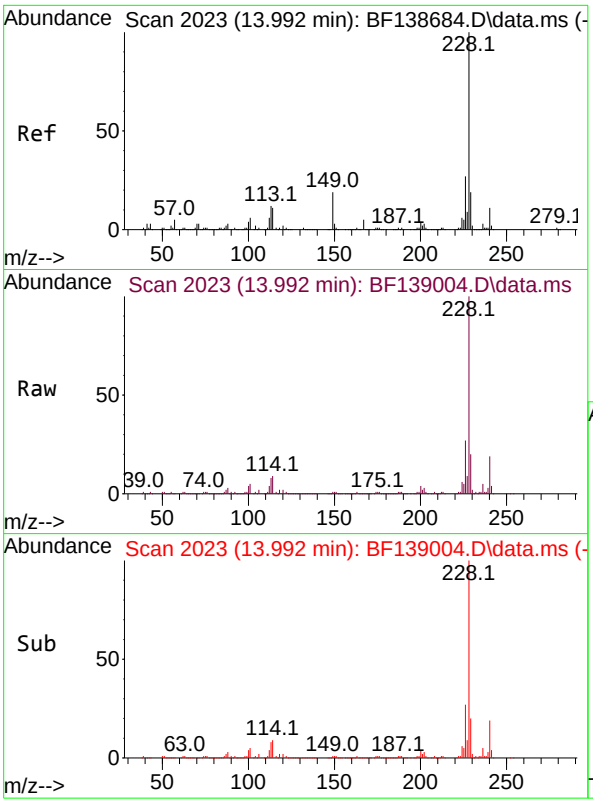



#80
Butylbenzylphthalate
Concen: 70.812 ng
RT: 13.410 min Scan# 1924
Delta R.T. -0.012 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:149 Resp: 131691

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 91 | 76.8 | 63.7 | 95.5 |
| 206 | 20.1 | 16.2 | 24.2 |

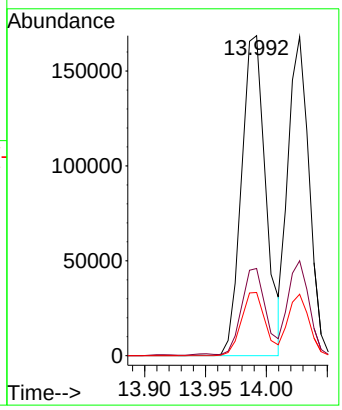





#81
Benzo(a)anthracene
Concen: 55.217 ng
RT: 13.992 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

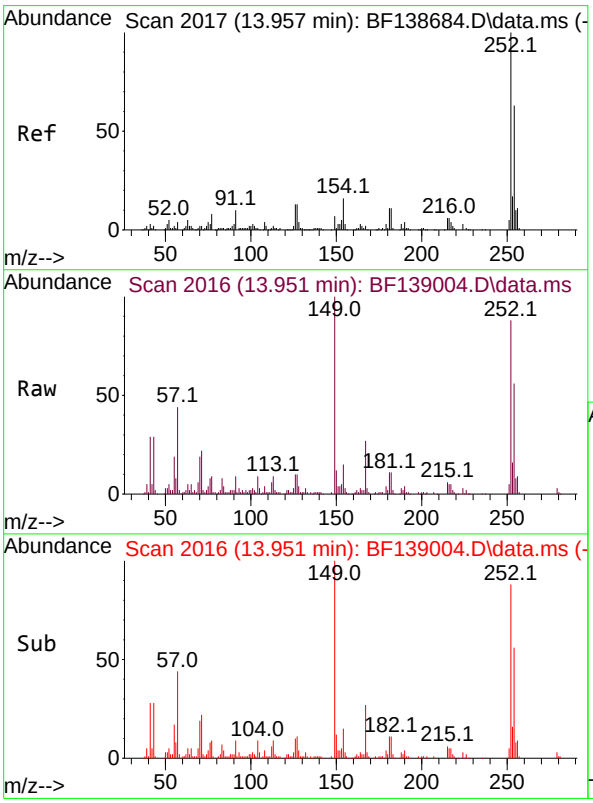
Tgt Ion:228 Resp: 23453

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.2 | 22.1 | 33.1 |
| 229 | 19.8 | 15.4 | 23.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MS

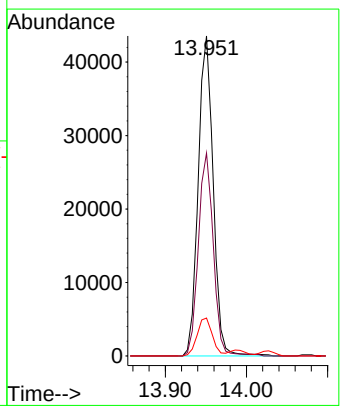
**Manual Integrations**
**APPROVED**
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

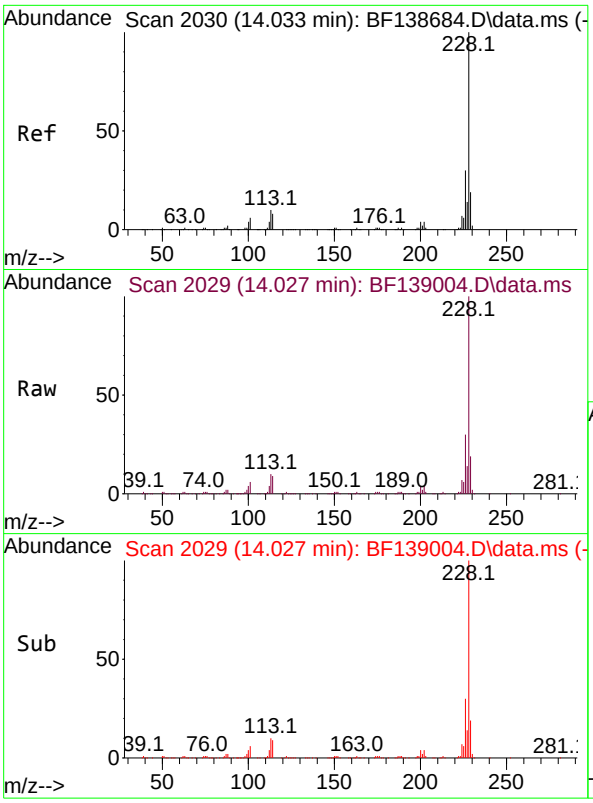



#82
3,3'-Dichlorobenzidine
Concen: 51.379 ng
RT: 13.951 min Scan# 2016
Delta R.T. -0.006 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:252 Resp: 55847

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 63.4 | 50.8 | 76.2 |
| 126 | 11.9 | 10.2 | 15.2 |

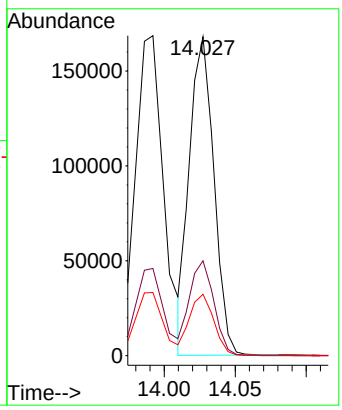





#83
Chrysene
Concen: 52.505 ng
RT: 14.027 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:228 Resp: 20120

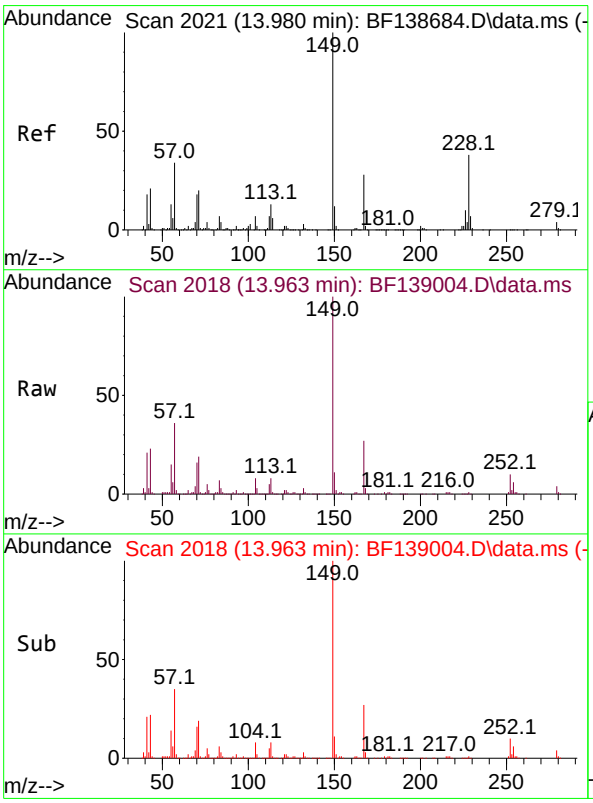
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.7 | 23.7 | 35.5 |
| 229 | 19.3 | 15.0 | 22.6 |




**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MS

**Manual Integrations**
**APPROVED**

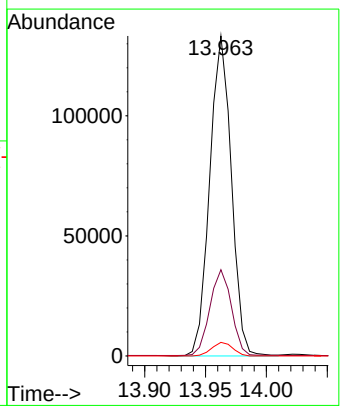
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

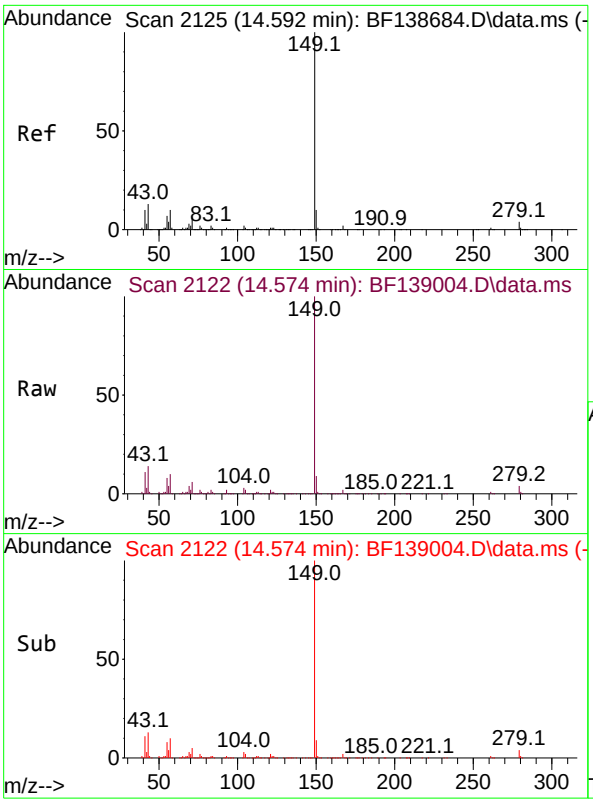



#84
Bis(2-ethylhexyl)phthalate
Concen: 60.475 ng
RT: 13.963 min Scan# 2018
Delta R.T. -0.018 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:149 Resp: 164690

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 27.0 | 22.2 | 33.4 |
| 279 | 4.2 | 3.4 | 5.0 |






#85
Di-n-octyl phthalate
Concen: 46.411 ng
RT: 14.574 min Scan# 21
Delta R.T. -0.018 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

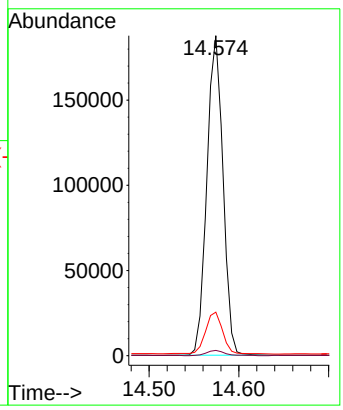
Tgt Ion:149 Resp: 23384

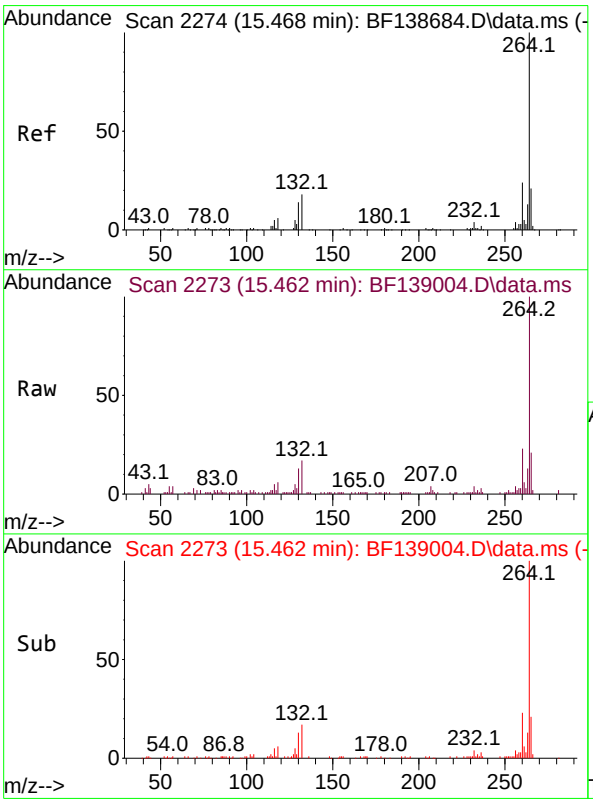
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 2.0 | 1.4 | 2.0 |
| 43 | 14.1 | 10.4 | 15.6 |

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MS

**Manual Integrations**
**APPROVED**

Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

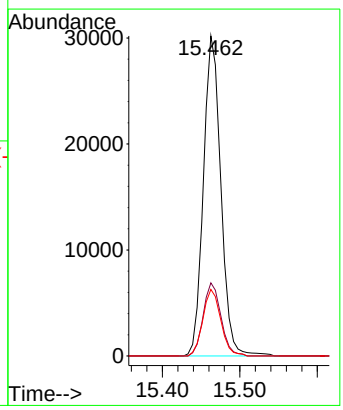


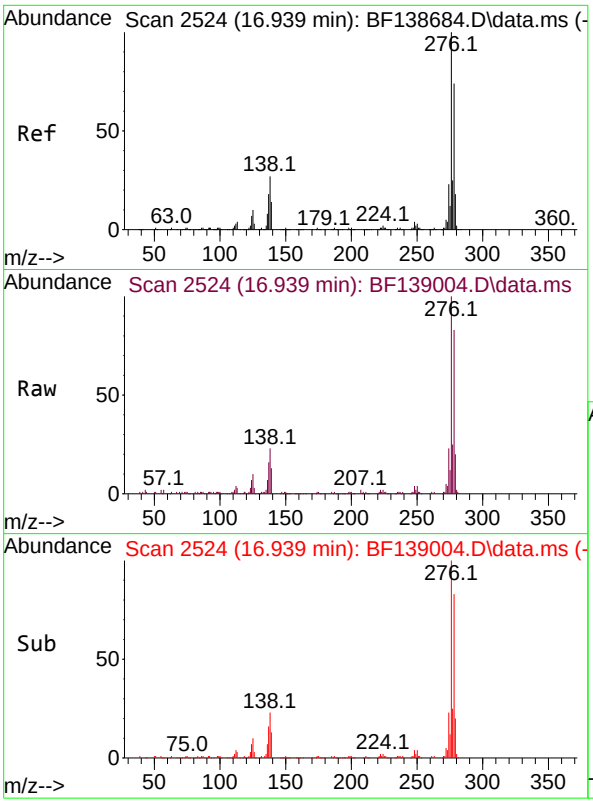




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.462 min Scan# 2273
Delta R.T. -0.006 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:264 Resp: 47286

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 22.8 | 19.0 | 28.6 |
| 265 | 20.8 | 17.0 | 25.6 |

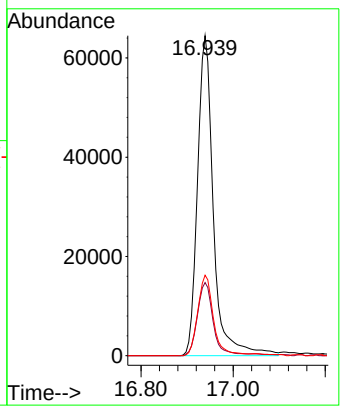





#87
Indeno(1,2,3-cd)pyrene
Concen: 45.760 ng
RT: 16.939 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:276 Resp: 15506

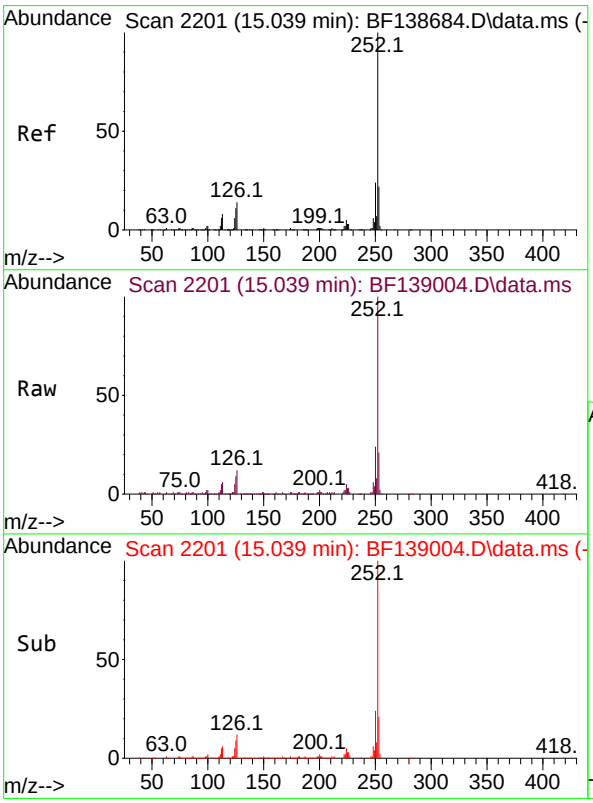
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 22.6 | 21.8 | 32.8 |
| 277 | 24.7 | 20.6 | 30.8 |




**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MS

**Manual Integrations**
**APPROVED**

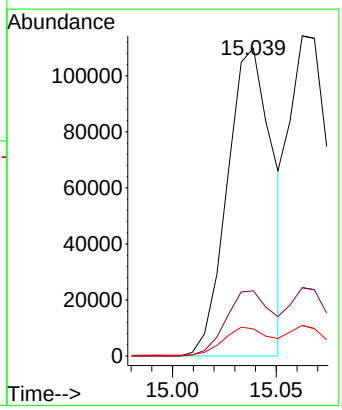
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

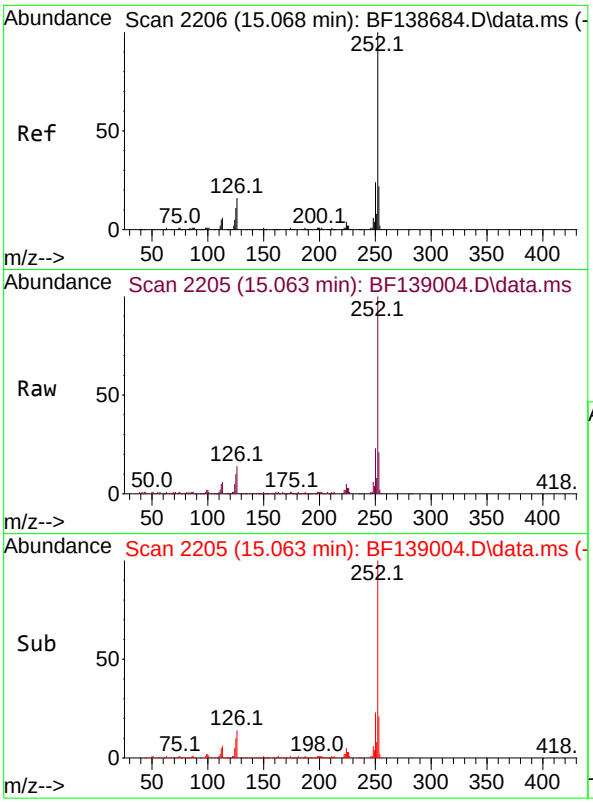



#88
Benzo(b)fluoranthene
Concen: 56.715 ng m
RT: 15.039 min Scan# 2201
Delta R.T. 0.000 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:252 Resp: 166247

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.2 | 17.5 | 26.3 |
| 125 | 8.8 | 8.9 | 13.3# |

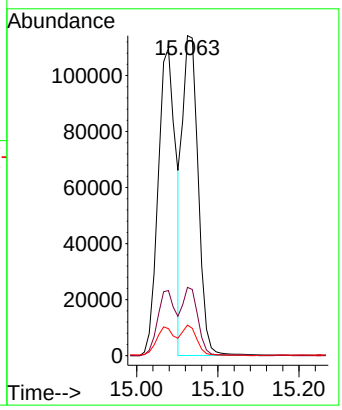





#89
Benzo(k)fluoranthene
Concen: 60.458 ng
RT: 15.063 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

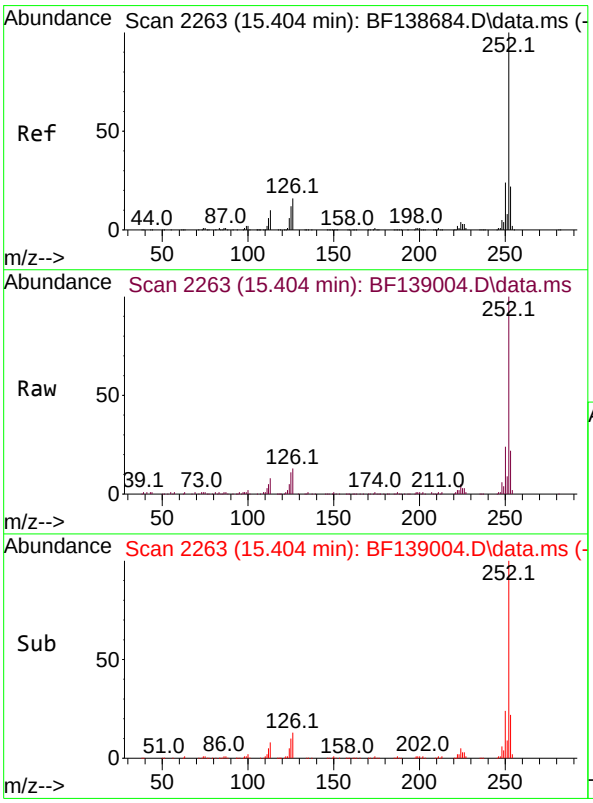
Tgt Ion:252 Resp: 15343

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.4 | 17.4 | 26.0 |
| 125 | 9.6 | 8.6 | 13.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MS

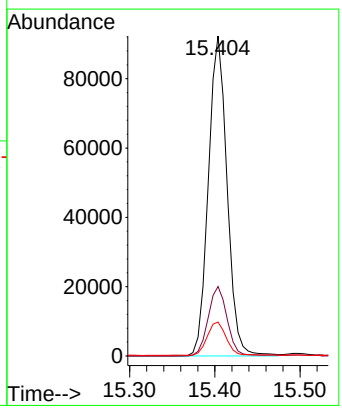
**Manual Integrations**
**APPROVED**
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024

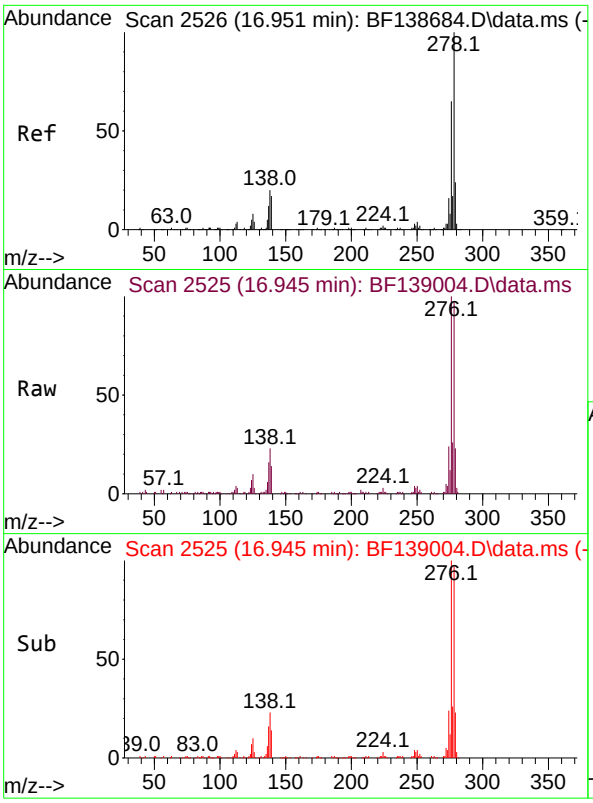



#90
Benzo(a)pyrene
Concen: 57.146 ng
RT: 15.404 min Scan# 2263
Delta R.T. 0.000 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:252 Resp: 140901

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.7 | 17.3 | 25.9 |
| 125 | 10.6 | 9.5 | 14.3 |

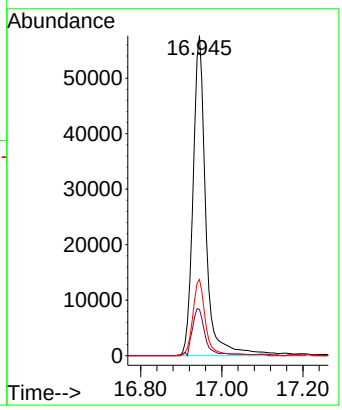





#91
Dibenzo(a,h)anthracene
Concen: 45.695 ng
RT: 16.945 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:278 Resp: 12711

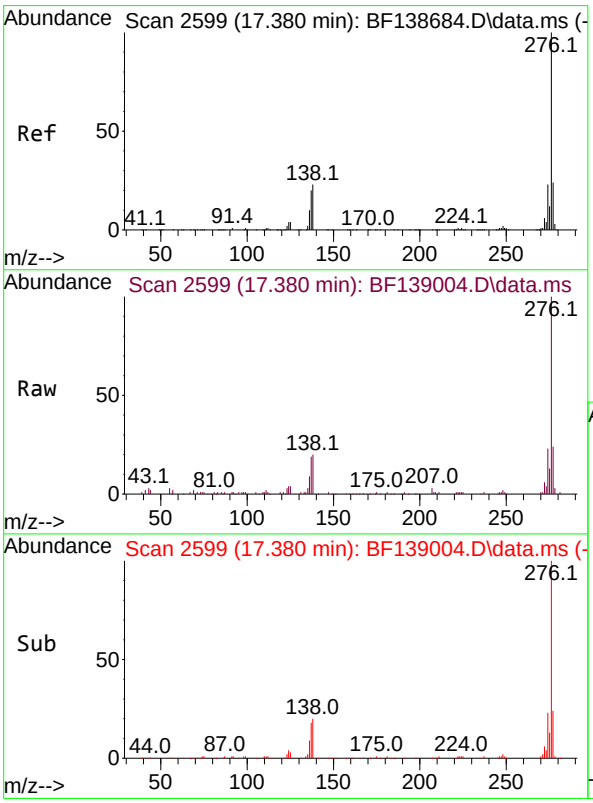
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 14.5 | 14.0 | 21.0 |
| 279 | 23.8 | 19.0 | 28.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MS

**Manual Integrations**
**APPROVED**

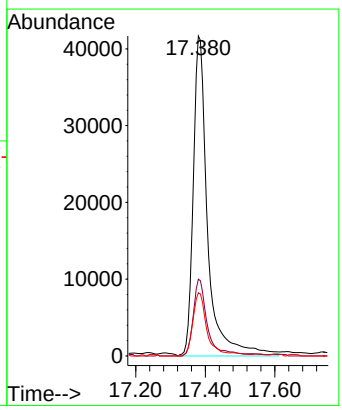
Reviewed By :Jagrut Upadhyay 08/15/2024
Supervised By :mohammad ahmed 08/16/2024




#92
Benzo(g,h,i)perylene
Concen: 41.679 ng
RT: 17.380 min Scan# 2599
Delta R.T. -0.000 min
Lab File: BF139004.D
Acq: 14 Aug 2024 20:16

Tgt Ion:276 Resp: 120309

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 24.0 | 19.0 | 28.4 |
| 138 | 19.7 | 18.5 | 27.7 |



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JACOBS Engineering Group, Inc. | Date Collected: | 08/02/24 |
| Project: | Former Schlumberger Site Princeton NJ | Date Received: | 08/02/24 |
| Client Sample ID: | 924-K1-WP0-0.25-080224MSD | SDG No.: | P3457 |
| Lab Sample ID: | P3466-03MSD | Matrix: | Water |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 950 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOCMS Group6 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF139005.D | 1 | 08/05/24 08:25 | 08/14/24 20:47 | PB162489 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 110-86-1 | Pyridine | 16.3 | | 1.60 | 5.30 | ug/L |
| 100-52-7 | Benzaldehyde | 4.20 | U | 4.20 | 10.5 | ug/L |
| 95-48-7 | 2-Methylphenol | 36.1 | | 1.20 | 5.30 | ug/L |
| 65794-96-9 | 3+4-Methylphenols | 32.8 | | 1.20 | 10.5 | ug/L |
| 67-72-1 | Hexachloroethane | 41.6 | | 1.10 | 5.30 | ug/L |
| 98-95-3 | Nitrobenzene | 55.8 | | 1.30 | 5.30 | ug/L |
| 91-20-3 | Naphthalene | 50.3 | | 1.10 | 5.30 | ug/L |
| 87-68-3 | Hexachlorobutadiene | 51.4 | | 1.30 | 5.30 | ug/L |
| 91-57-6 | 2-Methylnaphthalene | 49.2 | | 1.20 | 5.30 | ug/L |
| 88-06-2 | 2,4,6-Trichlorophenol | 56.9 | | 0.94 | 5.30 | ug/L |
| 95-95-4 | 2,4,5-Trichlorophenol | 55.9 | | 1.10 | 5.30 | ug/L |
| 208-96-8 | Acenaphthylene | 59.9 | | 1.10 | 5.30 | ug/L |
| 83-32-9 | Acenaphthene | 55.3 | | 0.85 | 5.30 | ug/L |
| 132-64-9 | Dibenzofuran | 57.7 | | 0.98 | 5.30 | ug/L |
| 121-14-2 | 2,4-Dinitrotoluene | 62.4 | | 1.60 | 5.30 | ug/L |
| 86-73-7 | Fluorene | 59.7 | | 1.00 | 5.30 | ug/L |
| 118-74-1 | Hexachlorobenzene | 51.5 | | 1.20 | 5.30 | ug/L |
| 87-86-5 | Pentachlorophenol | 97.5 | E | 1.90 | 10.5 | ug/L |
| 85-01-8 | Phenanthrene | 58.3 | | 0.94 | 5.30 | ug/L |
| 120-12-7 | Anthracene | 59.1 | | 1.10 | 5.30 | ug/L |
| 86-74-8 | Carbazole | 64.6 | | 1.20 | 5.30 | ug/L |
| 84-74-2 | Di-n-butylphthalate | 66.6 | | 1.50 | 5.30 | ug/L |
| 206-44-0 | Fluoranthene | 69.4 | | 1.40 | 5.30 | ug/L |
| 129-00-0 | Pyrene | 55.8 | | 1.10 | 5.30 | ug/L |
| 56-55-3 | Benzo(a)anthracene | 57.1 | | 0.99 | 5.30 | ug/L |
| 218-01-9 | Chrysene | 56.1 | | 0.91 | 5.30 | ug/L |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 63.1 | | 2.00 | 5.30 | ug/L |
| 205-99-2 | Benzo(b)fluoranthene | 59.8 | | 1.20 | 5.30 | ug/L |
| 207-08-9 | Benzo(k)fluoranthene | 66.8 | | 1.30 | 5.30 | ug/L |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JACOBS Engineering Group, Inc. | Date Collected: | 08/02/24 |
| Project: | Former Schlumberger Site Princeton NJ | Date Received: | 08/02/24 |
| Client Sample ID: | 924-K1-WP0-0.25-080224MSD | SDG No.: | P3457 |
| Lab Sample ID: | P3466-03MSD | Matrix: | Water |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 950 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOCMS Group6 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF139005.D | 1 | 08/05/24 08:25 | 08/14/24 20:47 | PB162489 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 50-32-8 | Benzo(a)pyrene | 61.5 | | 1.80 | 5.30 | ug/L |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 49.2 | | 1.10 | 5.30 | ug/L |
| 53-70-3 | Dibenzo(a,h)anthracene | 49.9 | | 1.20 | 5.30 | ug/L |
| 191-24-2 | Benzo(g,h,i)perylene | 43.1 | | 1.20 | 5.30 | ug/L |
| 123-91-1 | 1,4-Dioxane | 24.1 | | 1.30 | 5.30 | ug/L |
| 90-12-0 | 1-Methylnaphthalene | 46.2 | | 0.91 | 5.30 | ug/L |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 75.1 | | 15 (10) - 110 (139) | 50% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 43.2 | | 15 (10) - 110 (134) | 29% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 104 | | 30 (49) - 130 (133) | 104% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 100 | | 30 (52) - 130 (132) | 100% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 156 | | 15 (44) - 110 (137) | 104% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 113 | | 30 (48) - 130 (125) | 113% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 35400 | 6.834 | | | |
| 1146-65-2 | Naphthalene-d8 | 122000 | 8.116 | | | |
| 15067-26-2 | Acenaphthene-d10 | 56200 | 9.869 | | | |
| 1517-22-2 | Phenanthrene-d10 | 107000 | 11.357 | | | |
| 1719-03-5 | Chrysene-d12 | 69400 | 13.998 | | | |
| 1520-96-3 | Perylene-d12 | 51400 | 15.462 | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081424\
Data File : BF139005.D
Acq On : 14 Aug 2024 20:47
Operator : RC/JU
Sample : P3466-03MSD
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MSD

Quant Time: Aug 15 01:13:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.834 | 152 | 35424 | 20.000 | ng | | -0.01 |
| 21) Naphthalene-d8 | 8.116 | 136 | 122342 | 20.000 | ng | | -0.01 |
| 39) Acenaphthene-d10 | 9.869 | 164 | 56215 | 20.000 | ng | | -0.01 |
| 64) Phenanthrene-d10 | 11.357 | 188 | 107145 | 20.000 | ng | | -0.01 |
| 76) Chrysene-d12 | 13.998 | 240 | 69421 | 20.000 | ng | | 0.00 |
| 86) Perylene-d12 | 15.462 | 264 | 51366 | 20.000 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 5) 2-Fluorophenol | 5.475 | 112 | 172246 | 75.059 | ng | | 0.00 |
| 7) Phenol-d6 | 6.486 | 99 | 133158 | 43.219 | ng | | 0.00 |
| 23) Nitrobenzene-d5 | 7.404 | 82 | 259995 | 103.901 | ng | | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.663 | 330 | 71643 | 155.585 | ng | | 0.00 |
| 45) 2-Fluorobiphenyl | 9.186 | 172 | 374387 | 100.065 | ng | | -0.02 |
| 79) Terphenyl-d14 | 12.939 | 244 | 467448 | 112.737 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.610 | 88 | 23005 | 22.898 | ng | # | 93 |
| 3) Pyridine | 3.387 | 79 | 37615 | 15.455 | ng | | 91 |
| 4) n-Nitrosodimethylamine | 3.328 | 42 | 48359 | 33.362 | ng | | 83 |
| 6) Aniline | 6.504 | 93 | 63933 | 23.268 | ng | # | 77 |
| 8) 2-Chlorophenol | 6.634 | 128 | 104148 | 43.136 | ng | | 97 |
| 9) Benzaldehyde | 6.398 | 77 | 5341 | 2.892 | ng | | 99 |
| 10) Phenol | 6.498 | 94 | 55375 | 17.070 | ng | # | 56 |
| 11) bis(2-Chloroethyl)ether | 6.575 | 93 | 125998 | 50.473 | ng | | 98 |
| 12) 1,3-Dichlorobenzene | 6.775 | 146 | 114635 | 42.416 | ng | | 97 |
| 13) 1,4-Dichlorobenzene | 6.851 | 146 | 116971 | 42.886 | ng | | 98 |
| 14) 1,2-Dichlorobenzene | 7.004 | 146 | 110492 | 43.347 | ng | | 99 |
| 15) Benzyl Alcohol | 6.986 | 79 | 84537 | 38.069 | ng | | 97 |
| 16) 2,2'-oxybis(1-Chloropr... | 7.104 | 45 | 205652 | 47.870 | ng | | 77 |
| 17) 2-Methylphenol | 7.110 | 107 | 68440 | 34.328 | ng | # | 79 |
| 18) Hexachloroethane | 7.345 | 117 | 40549 | 39.496 | ng | | 94 |
| 19) n-Nitroso-di-n-propyla... | 7.251 | 70 | 93422 | 50.203 | ng | | 94 |
| 20) 3+4-Methylphenols | 7.263 | 107 | 79648 | 31.137 | ng | # | 70 |
| 22) Acetophenone | 7.251 | 105 | 163123 | 54.455 | ng | | 94 |
| 24) Nitrobenzene | 7.428 | 77 | 135036 | 53.032 | ng | | 99 |
| 25) Isophorone | 7.663 | 82 | 231397 | 54.155 | ng | | 98 |
| 26) 2-Nitrophenol | 7.739 | 139 | 55760 | 50.899 | ng | | 89 |
| 27) 2,4-Dimethylphenol | 7.781 | 122 | 67303 | 51.348 | ng | | 96 |
| 28) bis(2-Chloroethoxy)met... | 7.869 | 93 | 135972 | 52.256 | ng | | 98 |
| 29) 2,4-Dichlorophenol | 7.998 | 162 | 81596 | 48.446 | ng | | 99 |
| 30) 1,2,4-Trichlorobenzene | 8.057 | 180 | 92571 | 47.627 | ng | | 98 |
| 31) Naphthalene | 8.139 | 128 | 307717 | 47.784 | ng | | 100 |
| 32) Benzoic acid | 7.898 | 122 | 10938 | 10.616 | ng | | 95 |
| 33) 4-Chloroaniline | 8.198 | 127 | 59573 | 27.559 | ng | | 96 |
| 34) Hexachlorobutadiene | 8.251 | 225 | 57436 | 48.787 | ng | | 98 |
| 35) Caprolactam | 8.563 | 113 | 4822 | 9.595 | ng | | 98 |
| 36) 4-Chloro-3-methylphenol | 8.680 | 107 | 82087 | 42.646 | ng | | 100 |
| 37) 2-Methylnaphthalene | 8.828 | 142 | 190117 | 46.746 | ng | | 99 |
| 38) 1-Methylnaphthalene | 8.928 | 142 | 174825 | 43.867 | ng | | 99 |
| 40) 1,2,4,5-Tetrachloroben... | 8.992 | 216 | 79872 | 51.148 | ng | | 98 |
| 41) Hexachlorocyclopentadiene | 8.975 | 237 | 9541 | 28.039 | ng | | 98 |
| 43) 2,4,6-Trichlorophenol | 9.116 | 196 | 51479 | 54.068 | ng | | 99 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081424\
Data File : BF139005.D
Acq On : 14 Aug 2024 20:47
Operator : RC/JU
Sample : P3466-03MSD
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MSD

Quant Time: Aug 15 01:13:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

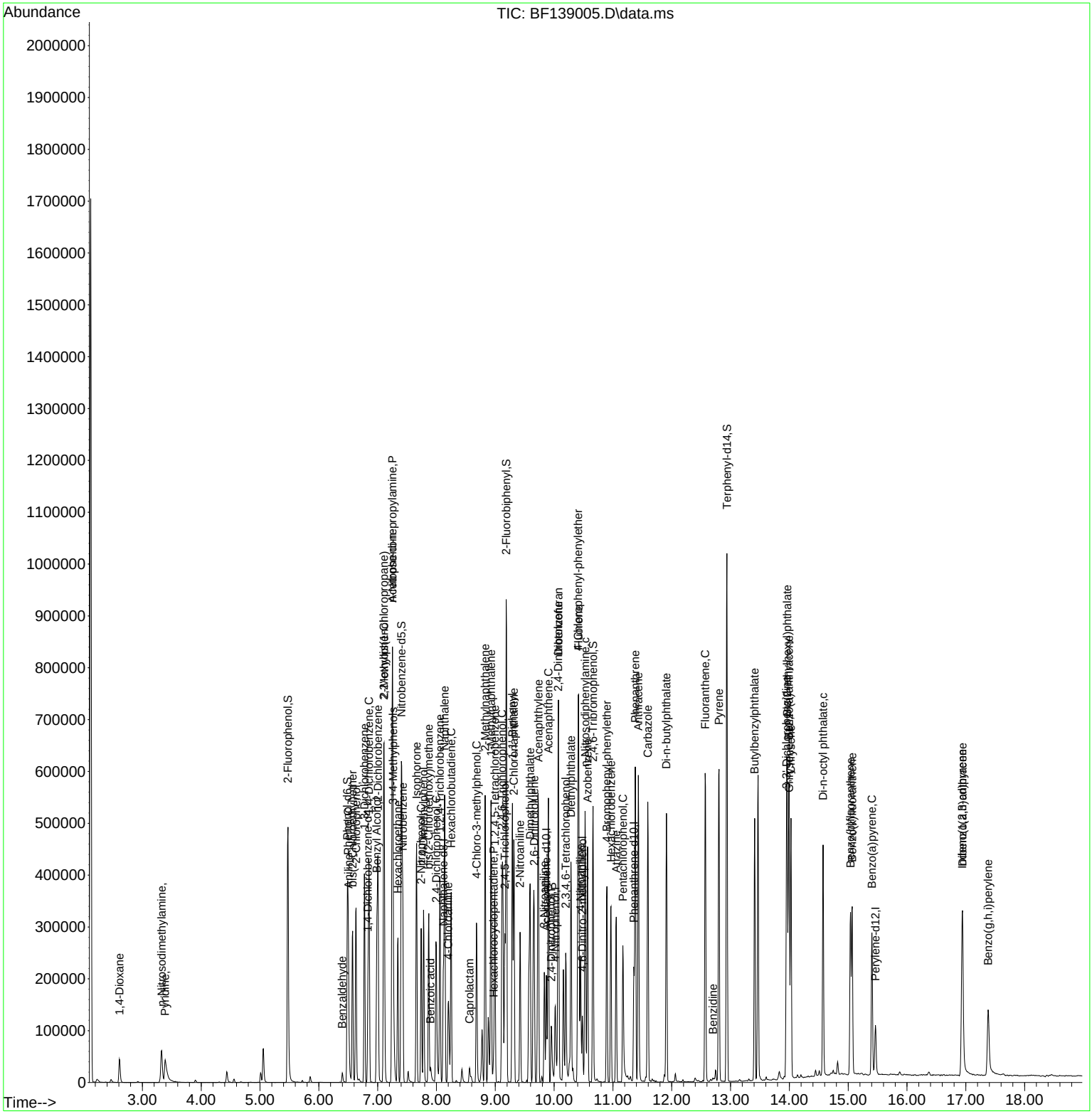
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 9.163 | 196 | 55295 | 53.124 | ng | | 98 |
| 46) 1,1'-Biphenyl | 9.292 | 154 | 219875 | 49.941 | ng | | 99 |
| 47) 2-Chloronaphthalene | 9.316 | 162 | 169911 | 51.891 | ng | | 97 |
| 48) 2-Nitroaniline | 9.422 | 65 | 66537 | 59.940 | ng | | 93 |
| 49) Acenaphthylene | 9.733 | 152 | 264075 | 56.863 | ng | | 100 |
| 50) Dimethylphthalate | 9.592 | 163 | 206813 | 57.537 | ng | | 99 |
| 51) 2,6-Dinitrotoluene | 9.663 | 165 | 43358 | 53.449 | ng | # | 88 |
| 52) Acenaphthene | 9.904 | 154 | 163965 | 52.522 | ng | | 98 |
| 53) 3-Nitroaniline | 9.833 | 138 | 36083 | 43.028 | ng | | 93 |
| 54) 2,4-Dinitrophenol | 9.951 | 184 | 23610 | 63.226 | ng | # | 82 |
| 55) Dibenzofuran | 10.074 | 168 | 241498 | 54.801 | ng | | 97 |
| 56) 4-Nitrophenol | 10.022 | 139 | 18170 | 36.031 | ng | | 84 |
| 57) 2,4-Dinitrotoluene | 10.069 | 165 | 61336 | 59.264 | ng | # | 79 |
| 58) Fluorene | 10.416 | 166 | 199064 | 56.725 | ng | | 99 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.198 | 232 | 44596 | 56.042 | ng | | 96 |
| 60) Diethylphthalate | 10.286 | 149 | 200243 | 58.754 | ng | | 99 |
| 61) 4-Chlorophenyl-phenyle... | 10.410 | 204 | 94653 | 54.841 | ng | | 95 |
| 62) 4-Nitroaniline | 10.451 | 138 | 47561 | 59.680 | ng | | 86 |
| 63) Azobenzene | 10.569 | 77 | 214205 | 56.668 | ng | | 96 |
| 65) 4,6-Dinitro-2-methylph... | 10.480 | 198 | 21054 | 32.209 | ng | | 88 |
| 66) n-Nitrosodiphenylamine | 10.527 | 169 | 160865 | 48.032 | ng | | 98 |
| 67) 4-Bromophenyl-phenylether | 10.898 | 248 | 55284 | 47.657 | ng | | 97 |
| 68) Hexachlorobenzene | 10.969 | 284 | 58620 | 48.941 | ng | | 99 |
| 69) Atrazine | 11.057 | 200 | 48988 | 56.694 | ng | | 98 |
| 70) Pentachlorophenol | 11.169 | 266 | 50020 | 92.650 | ng | | 99 |
| 71) Phenanthrene | 11.380 | 178 | 305574 | 55.387 | ng | | 100 |
| 72) Anthracene | 11.433 | 178 | 304936 | 56.105 | ng | | 99 |
| 73) Carbazole | 11.592 | 167 | 287592 | 61.332 | ng | | 98 |
| 74) Di-n-butylphthalate | 11.910 | 149 | 333398 | 63.247 | ng | | 99 |
| 75) Fluoranthene | 12.568 | 202 | 339497 | 65.915 | ng | | 99 |
| 77) Benzidine | 12.704 | 184 | 4484 | 2.701 | ng | | 97 |
| 78) Pyrene | 12.804 | 202 | 346232 | 52.971 | ng | | 99 |
| 80) Butylbenzylphthalate | 13.410 | 149 | 145402 | 69.468 | ng | | 98 |
| 81) Benzo(a)anthracene | 13.992 | 228 | 259253 | 54.232 | ng | | 99 |
| 82) 3,3'-Dichlorobenzidine | 13.951 | 252 | 65454 | 53.504 | ng | | 99 |
| 83) Chrysene | 14.027 | 228 | 229659 | 53.249 | ng | | 99 |
| 84) Bis(2-ethylhexyl)phtha... | 13.962 | 149 | 183851 | 59.985 | ng | | 98 |
| 85) Di-n-octyl phthalate | 14.574 | 149 | 265356 | 46.794 | ng | | 100 |
| 87) Indeno(1,2,3-cd)pyrene | 16.939 | 276 | 172061 | 46.742 | ng | | 95 |
| 88) Benzo(b)fluoranthene | 15.039 | 252 | 181039 | 56.856 | ng | | 98 |
| 89) Benzo(k)fluoranthene | 15.068 | 252 | 175013 | 63.481 | ng | | 98 |
| 90) Benzo(a)pyrene | 15.404 | 252 | 156468 | 58.419 | ng | | 99 |
| 91) Dibenzo(a,h)anthracene | 16.945 | 278 | 143340 | 47.437 | ng | | 98 |
| 92) Benzo(g,h,i)perylene | 17.380 | 276 | 128350 | 40.933 | ng | | 95 |

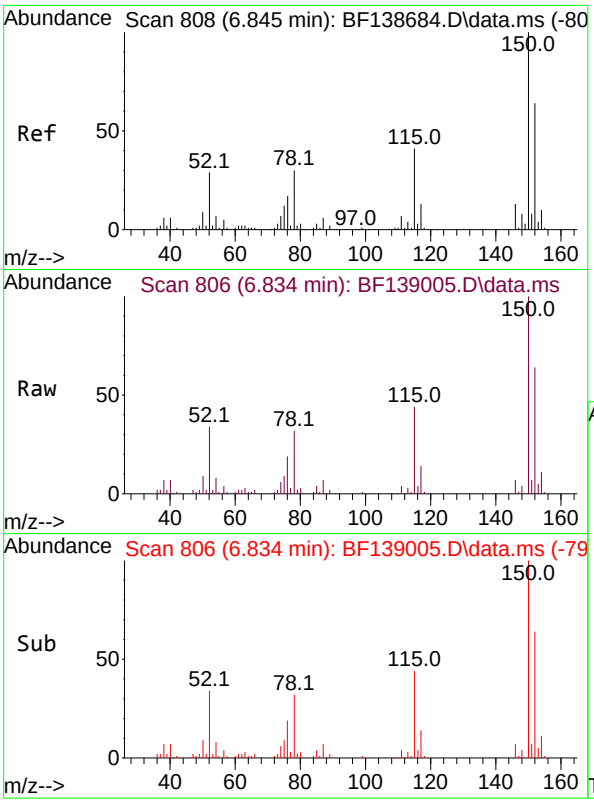
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081424\
Data File : BF139005.D
Acq On : 14 Aug 2024 20:47
Operator : RC/JU
Sample : P3466-03MSD
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MSD

Quant Time: Aug 15 01:13:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration



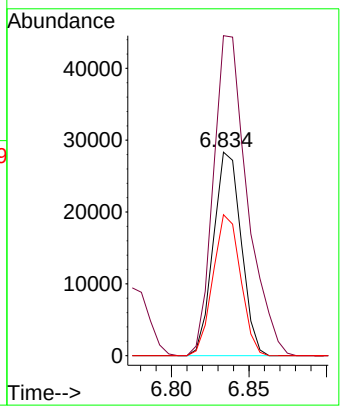


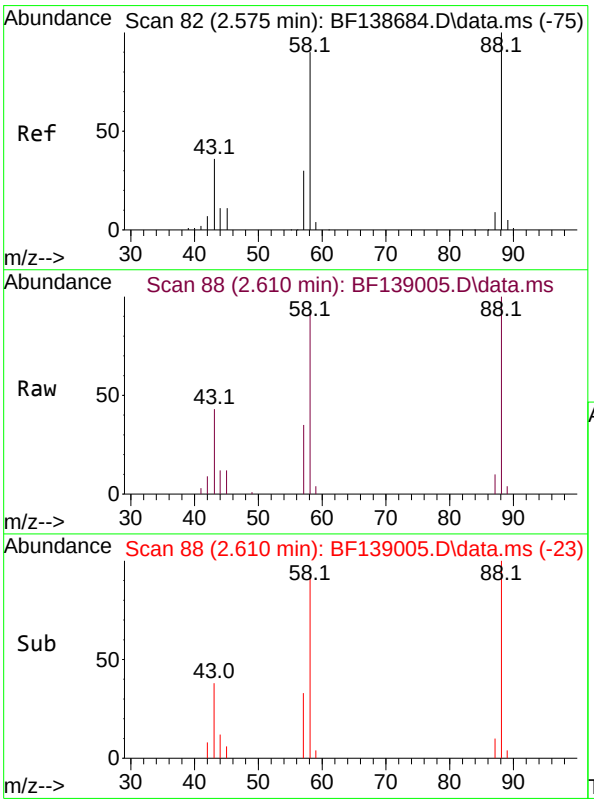

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.834 min Scan# 8
Delta R.T. -0.011 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MSD

Tgt Ion:152 Resp: 35424

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 157.2 | 126.0 | 189.0 |
| 115 | 69.3 | 51.7 | 77.5 |

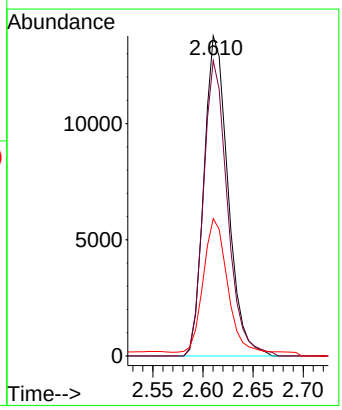


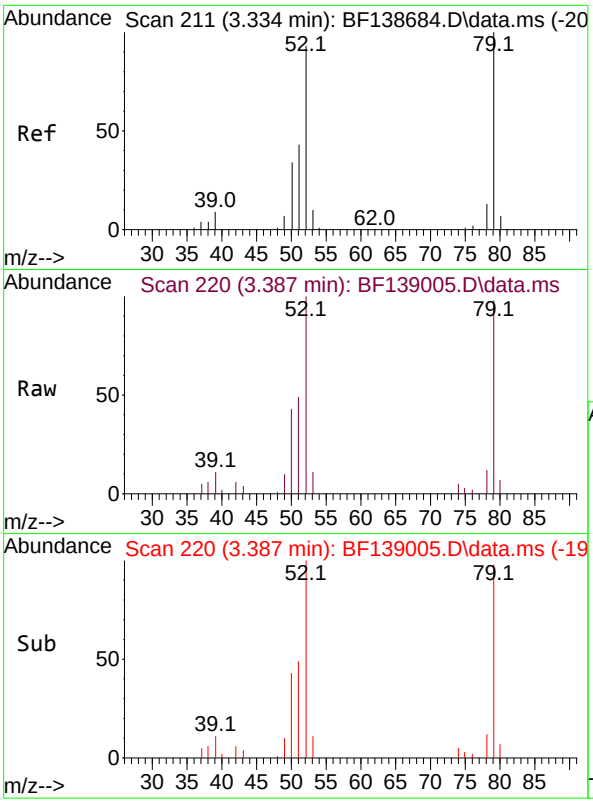




#2
1,4-Dioxane
Concen: 22.898 ng
RT: 2.610 min Scan# 88
Delta R.T. 0.035 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion: 88 Resp: 23005

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 91.9 | 71.6 | 107.4 |
| 43 | 46.5 | 28.7 | 43.1# |



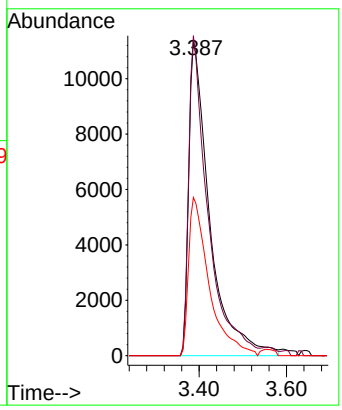


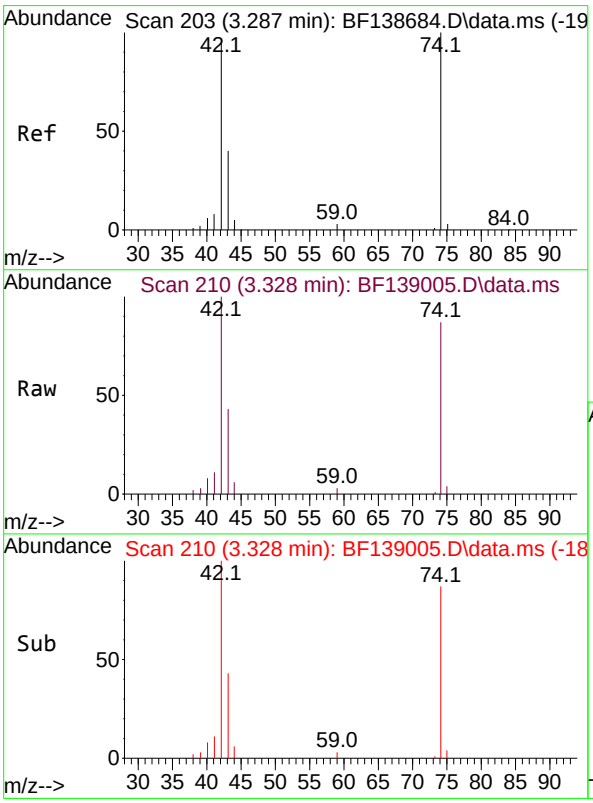

#3
Pyridine
Concen: 15.455 ng
RT: 3.387 min Scan# 2
Delta R.T. 0.053 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MSD

Tgt Ion: 79 Resp: 37615

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 101.7 | 74.7 | 112.1 |
| 51 | 50.3 | 34.6 | 51.8 |

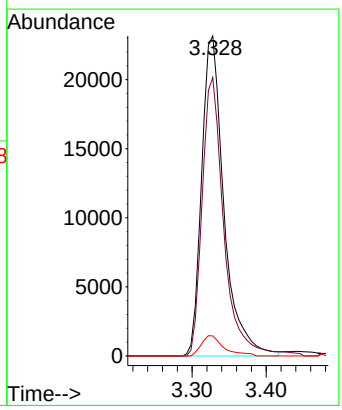


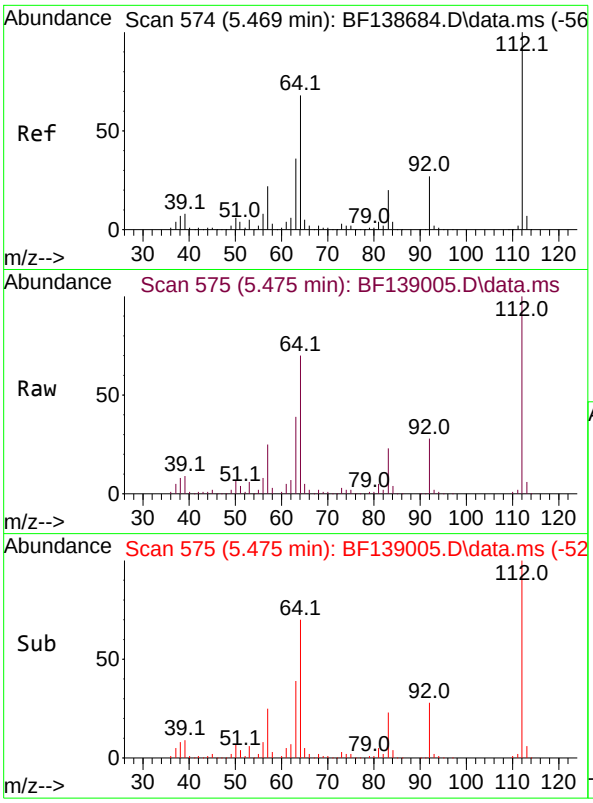




#4
n-Nitrosodimethylamine
Concen: 33.362 ng
RT: 3.328 min Scan# 210
Delta R.T. 0.041 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion: 42 Resp: 48359

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 87.0 | 84.2 | 126.4 |
| 44 | 6.3 | 4.9 | 7.3 |



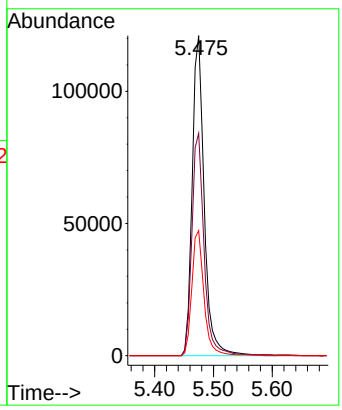


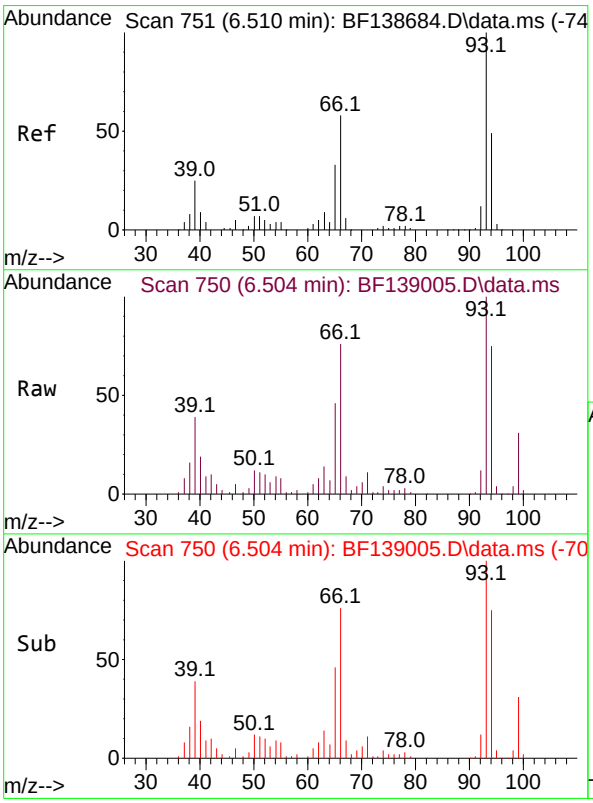

#5
2-Fluorophenol
Concen: 75.059 ng
RT: 5.475 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MSD

Tgt Ion:112 Resp: 172246

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 69.5 | 54.2 | 81.4 |
| 63 | 39.1 | 28.7 | 43.1 |

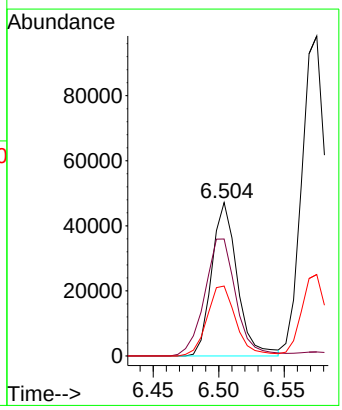


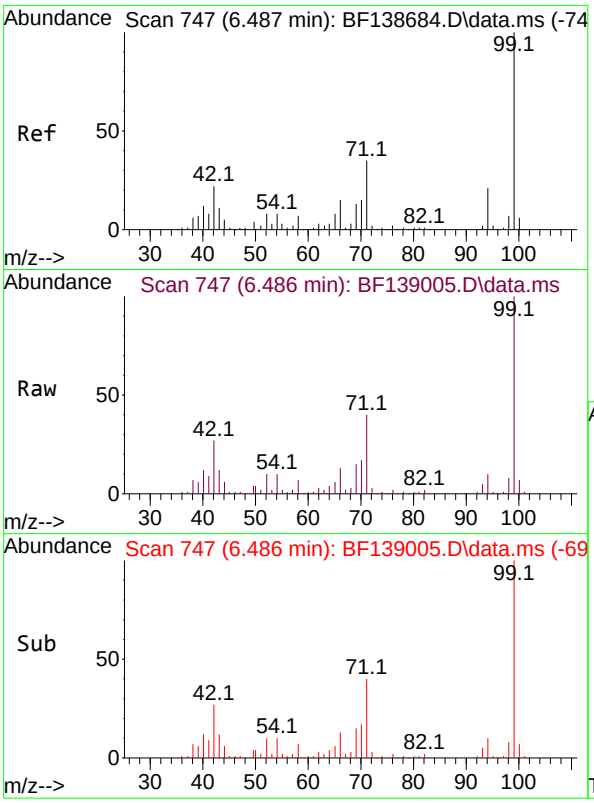




#6
Aniline
Concen: 23.268 ng
RT: 6.504 min Scan# 750
Delta R.T. -0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion: 93 Resp: 63933

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 66 | 76.2 | 46.9 | 70.3# |
| 65 | 45.6 | 26.5 | 39.7# |



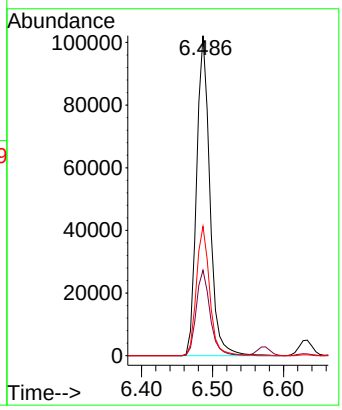


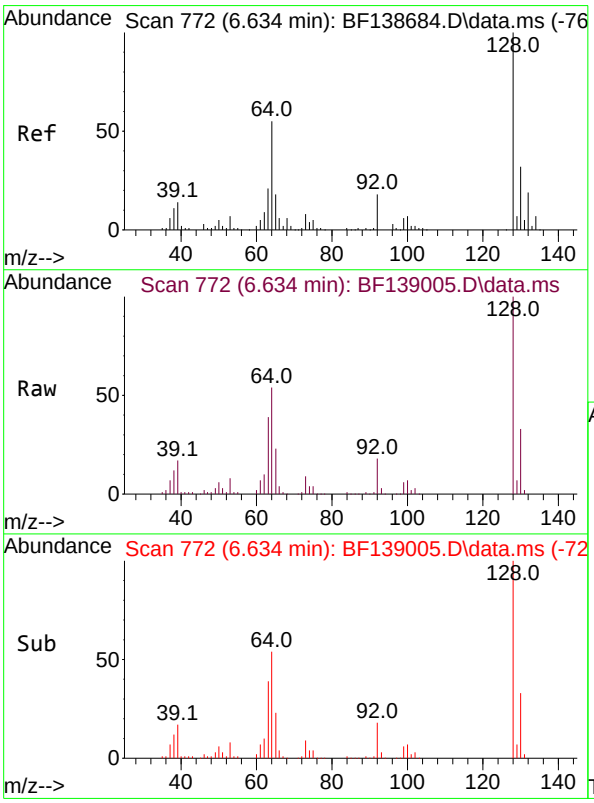

#7
Phenol-d6
Concen: 43.219 ng
RT: 6.486 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MSD

Tgt Ion: 99 Resp: 133158

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 26.7 | 17.4 | 26.0# |
| 71 | 40.4 | 28.1 | 42.1 |

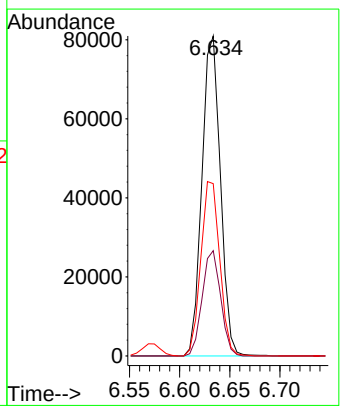


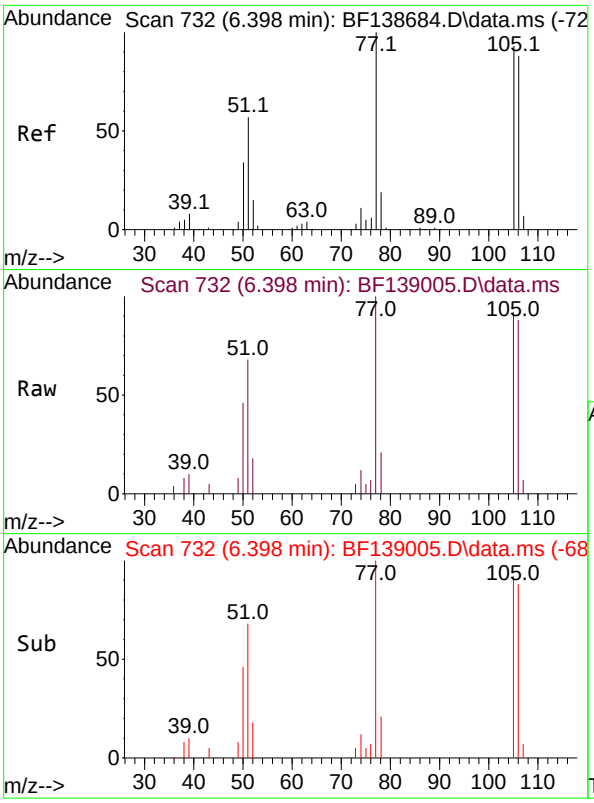




#8
2-Chlorophenol
Concen: 43.136 ng
RT: 6.634 min Scan# 772
Delta R.T. -0.000 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:128 Resp: 104148

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 130 | 32.9 | 12.0 | 52.0 |
| 64 | 53.8 | 36.3 | 76.3 |



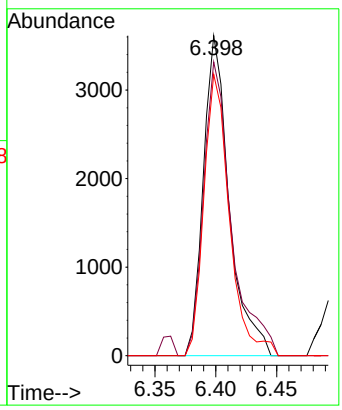


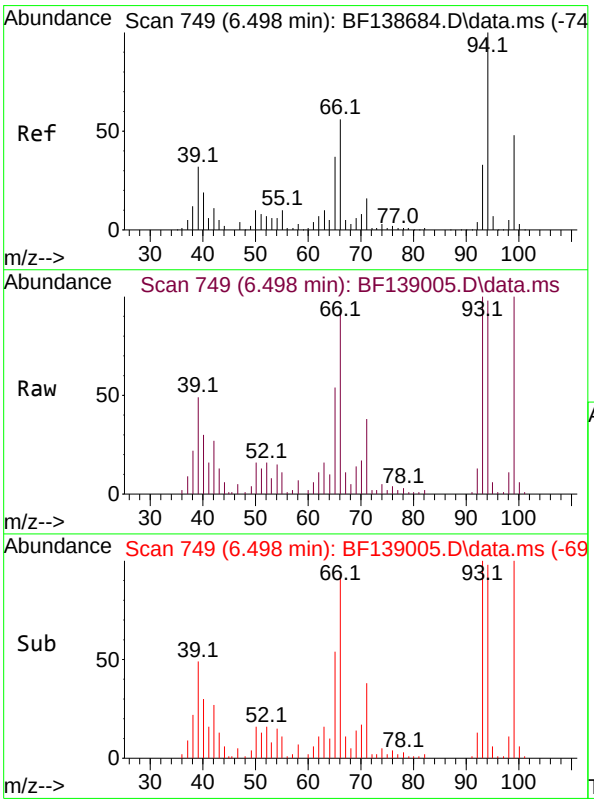

#9
Benzaldehyde
Concen: 2.892 ng
RT: 6.398 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MSD

Tgt Ion: 77 Resp: 5341

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 105 | 91.8 | 72.9 | 112.9 |
| 106 | 87.9 | 68.4 | 108.4 |

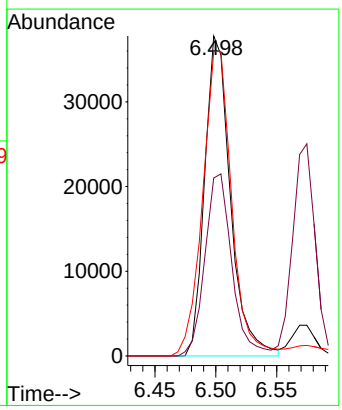


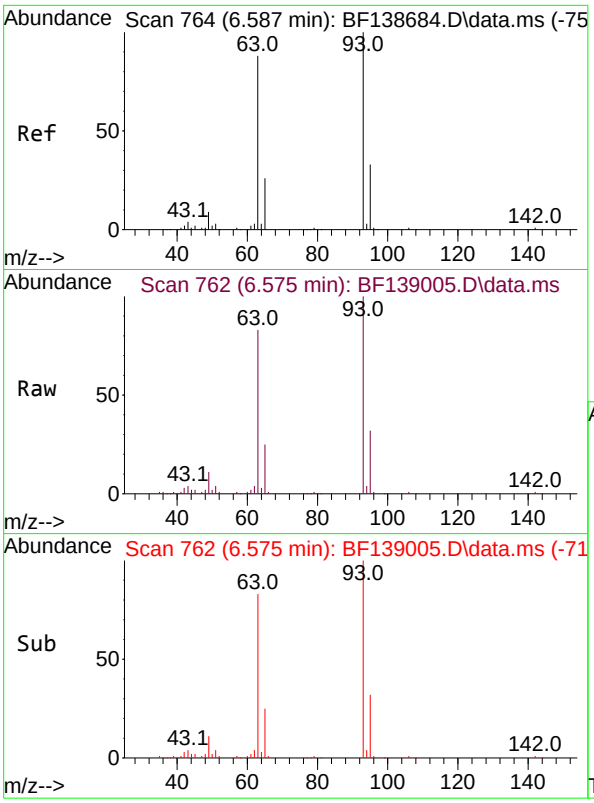




#10
Phenol
Concen: 17.070 ng
RT: 6.498 min Scan# 749
Delta R.T. -0.000 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion: 94 Resp: 55375

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 55.6 | 16.9 | 56.9 |
| 66 | 95.1 | 36.5 | 76.5# |



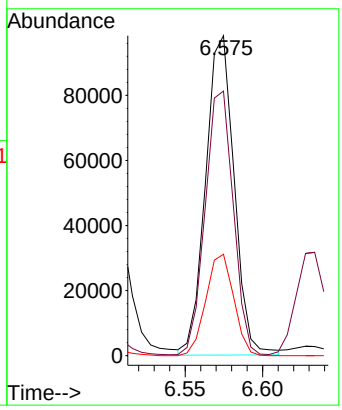


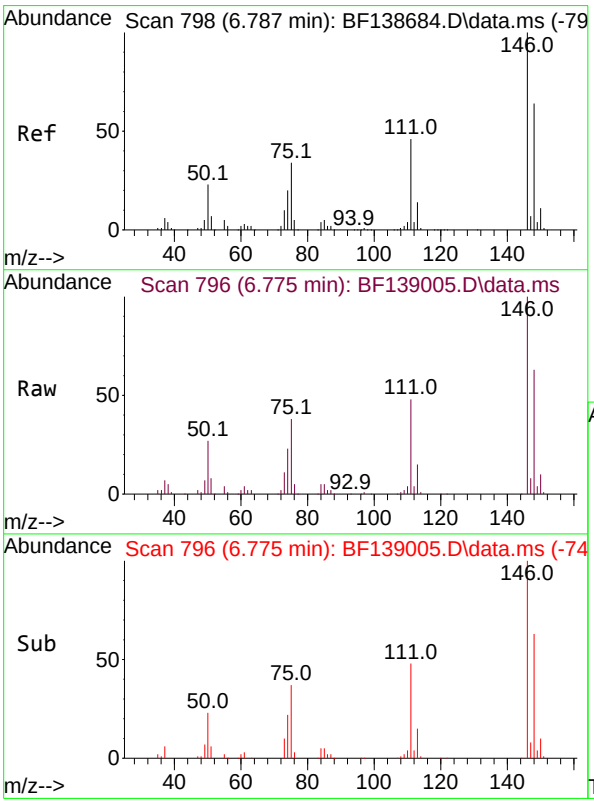

#11
bis(2-Chloroethyl)ether
Concen: 50.473 ng
RT: 6.575 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MSD

Tgt Ion: 93 Resp: 125998

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 82.7 | 65.3 | 105.3 |
| 95 | 31.7 | 12.4 | 52.4 |

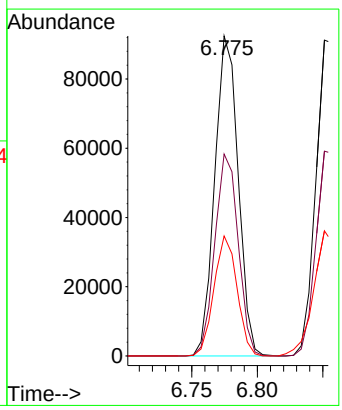


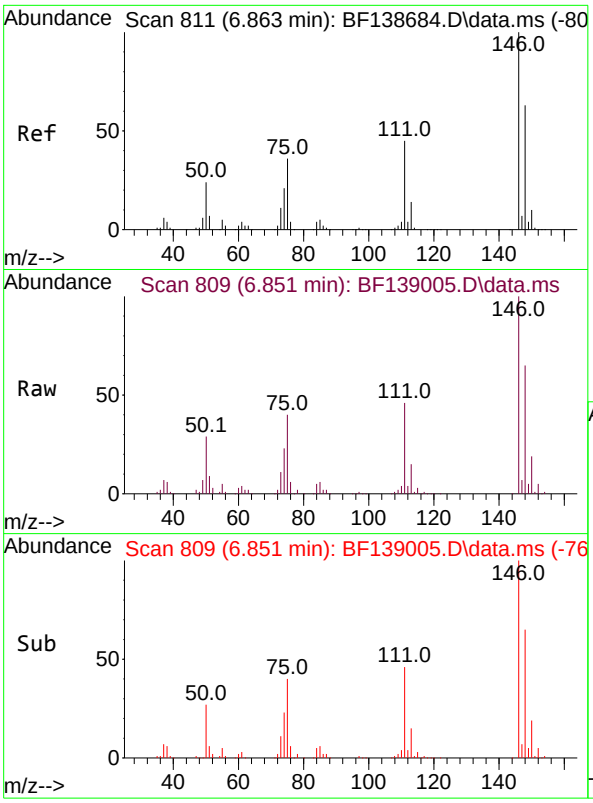




#12
1,3-Dichlorobenzene
Concen: 42.416 ng
RT: 6.775 min Scan# 796
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:146 Resp: 114635

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 63.1 | 51.2 | 76.8 |
| 75 | 37.5 | 27.4 | 41.2 |



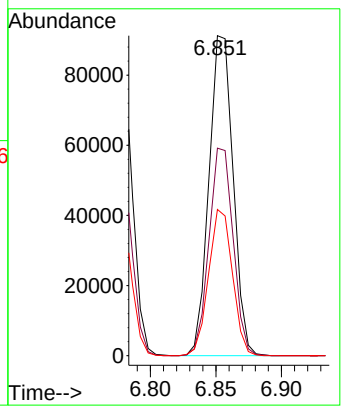


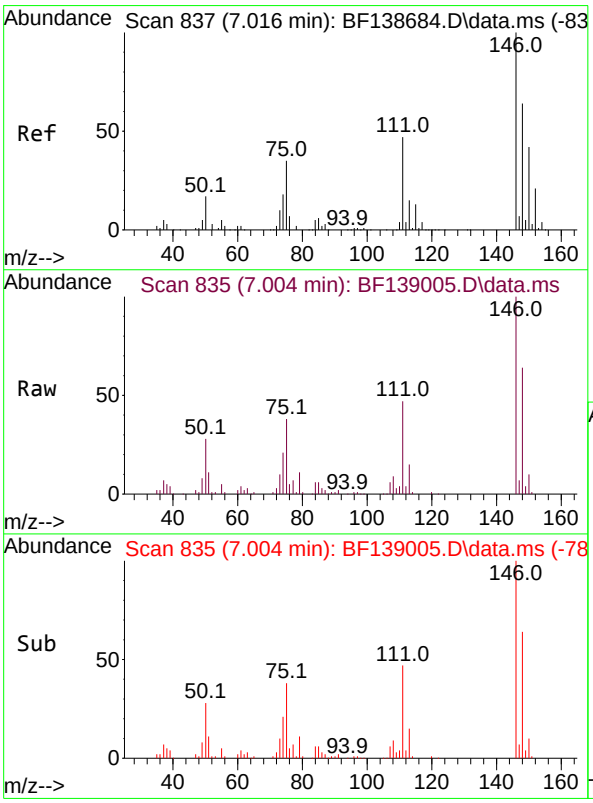

#13
1,4-Dichlorobenzene
Concen: 42.886 ng
RT: 6.851 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MSD

Tgt Ion:146 Resp: 116971

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 64.8 | 50.2 | 75.2 |
| 111 | 45.7 | 35.9 | 53.9 |

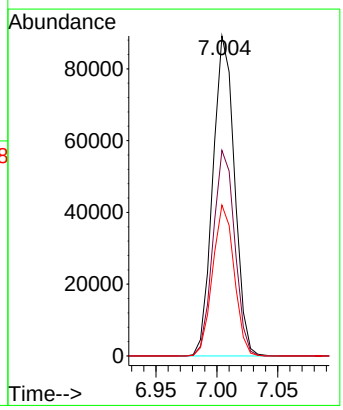


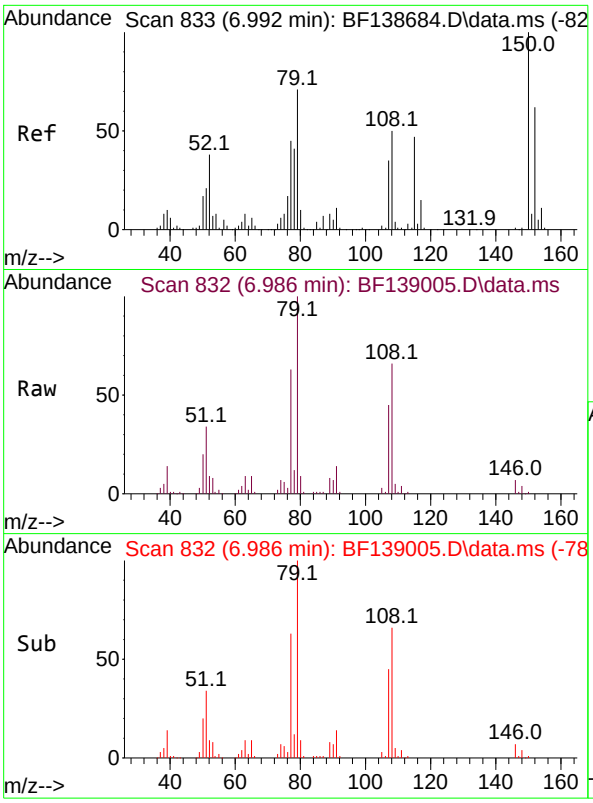




#14
1,2-Dichlorobenzene
Concen: 43.347 ng
RT: 7.004 min Scan# 835
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:146 Resp: 110492

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 64.2 | 50.8 | 76.2 |
| 111 | 47.2 | 37.4 | 56.2 |



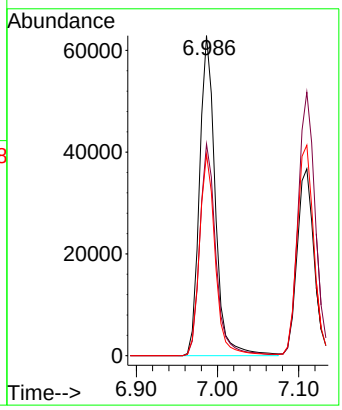


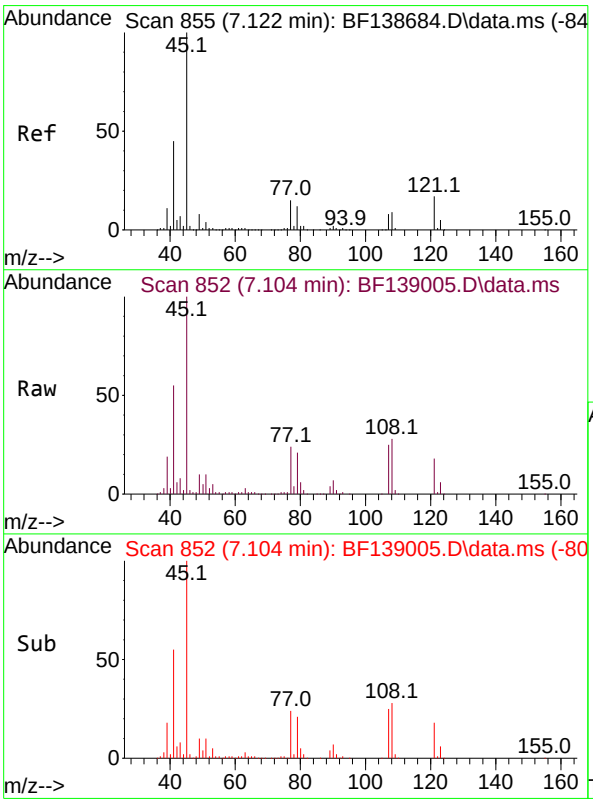

#15
Benzyl Alcohol
Concen: 38.069 ng
RT: 6.986 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MSD

Tgt Ion: 79 Resp: 84537

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 108 | 66.1 | 56.6 | 85.0 |
| 77 | 63.0 | 50.3 | 75.5 |

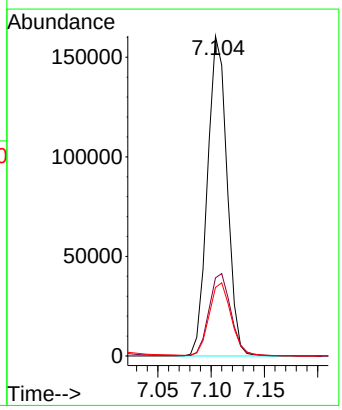


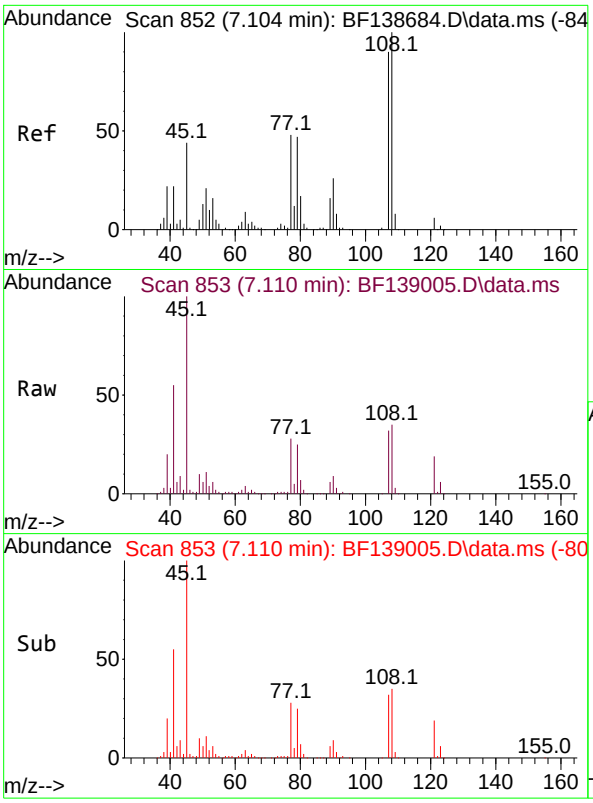




#16
2,2'-oxybis(1-Chloropropane)
Concen: 47.870 ng
RT: 7.104 min Scan# 852
Delta R.T. -0.018 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion: 45 Resp: 205652

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 77 | 24.4 | 0.0 | 34.9 |
| 79 | 21.4 | 0.0 | 32.2 |



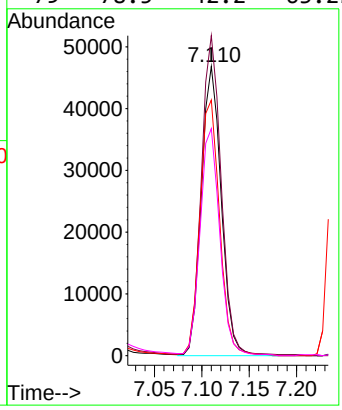


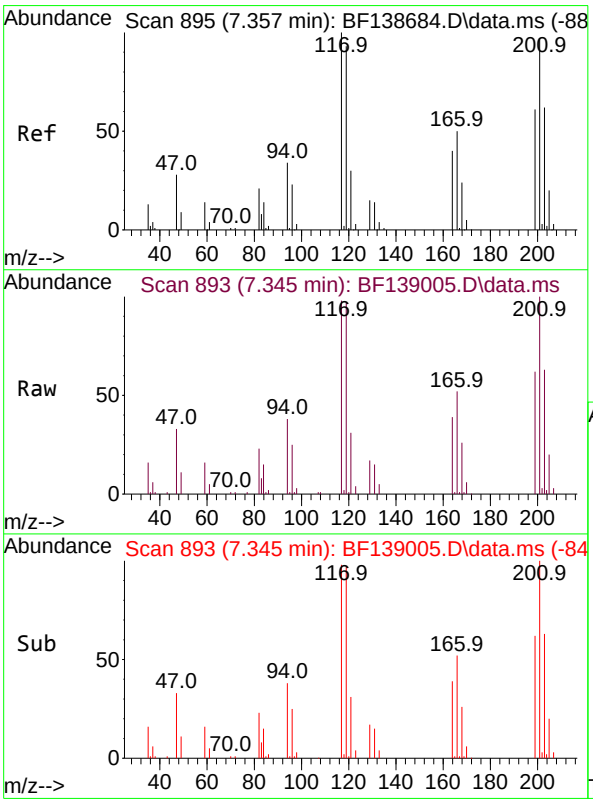

#17
2-Methylphenol
Concen: 34.328 ng
RT: 7.110 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MSD

Tgt Ion:107 Resp: 68440

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 110.6 | 89.2 | 133.8 |
| 77 | 88.4 | 43.0 | 64.4# |
| 79 | 78.5 | 42.2 | 63.2# |

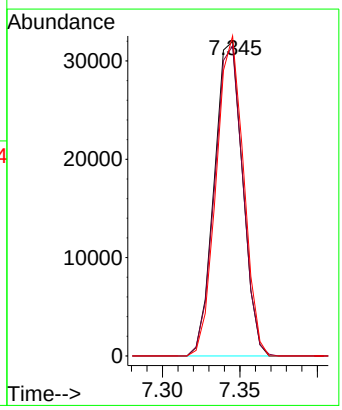


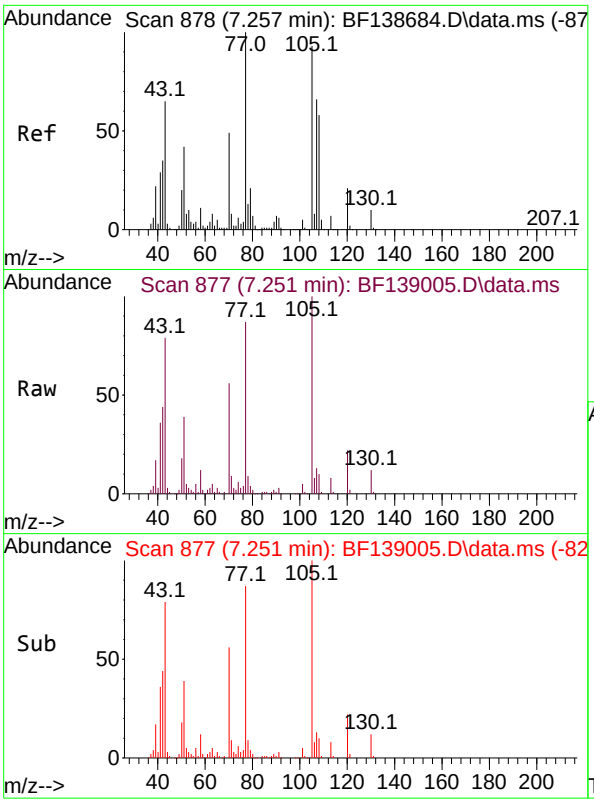




#18
Hexachloroethane
Concen: 39.496 ng
RT: 7.345 min Scan# 893
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:117 Resp: 40549

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 98.7 | 74.6 | 111.8 |
| 201 | 101.8 | 77.2 | 115.8 |



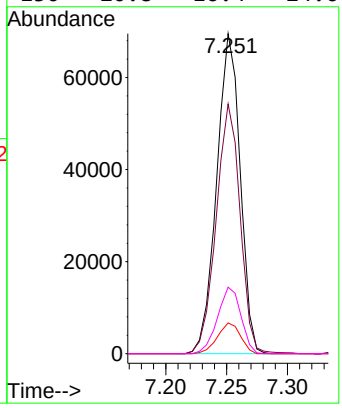


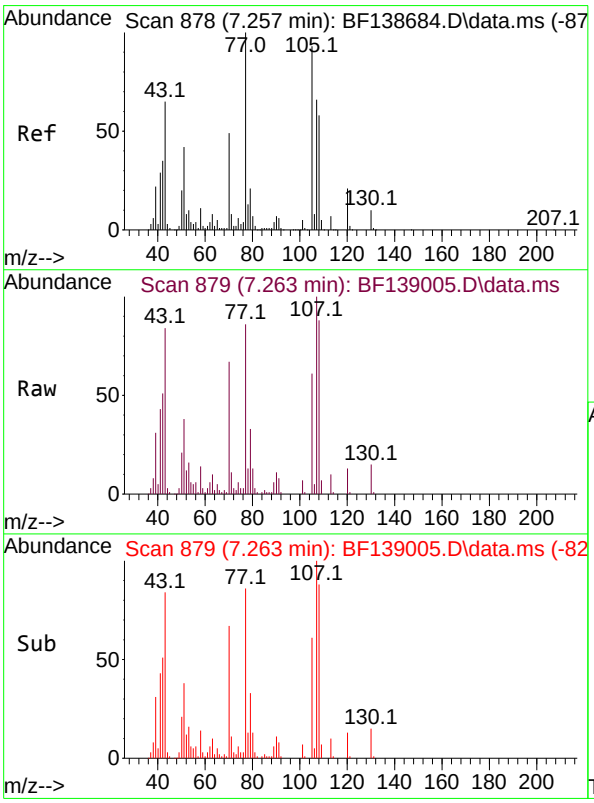

#19
n-Nitroso-di-n-propylamine
Concen: 50.203 ng
RT: 7.251 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MSD

Tgt Ion: 70 Resp: 93422

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 42 | 78.0 | 57.4 | 86.0 |
| 101 | 9.6 | 7.5 | 11.3 |
| 130 | 20.8 | 16.4 | 24.6 |

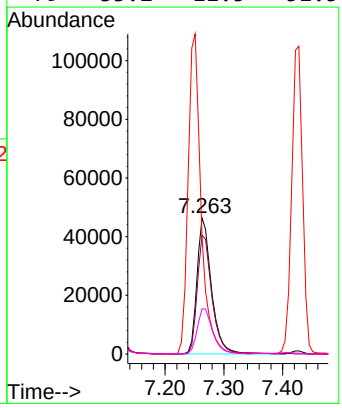


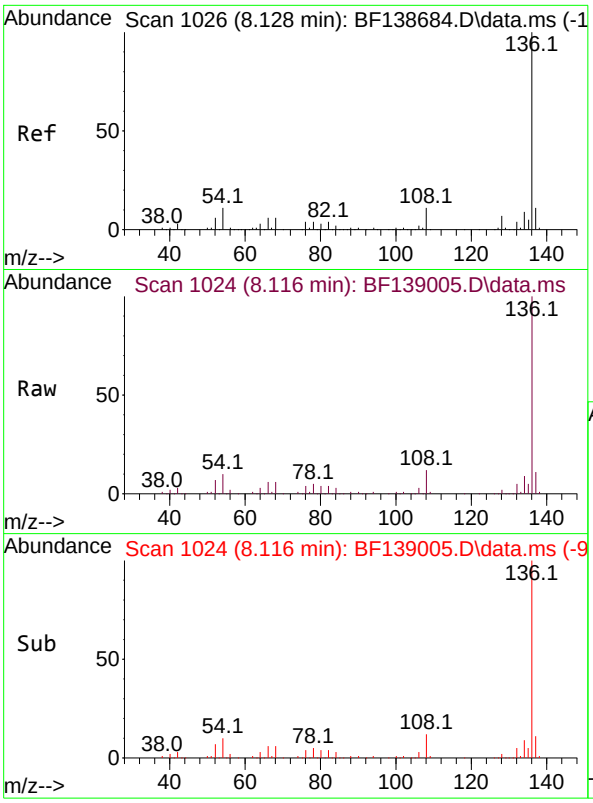




#20
3+4-Methylphenols
Concen: 31.137 ng
RT: 7.263 min Scan# 879
Delta R.T. 0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:107 Resp: 79648

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 87.5 | 68.2 | 108.2 |
| 77 | 85.9 | 132.1 | 172.1# |
| 79 | 33.2 | 11.5 | 51.5 |



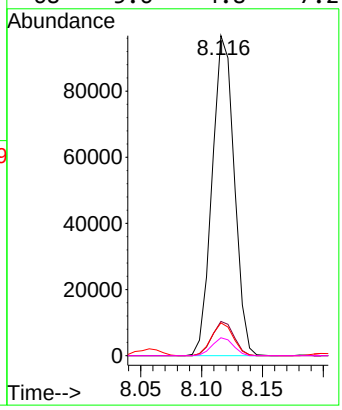


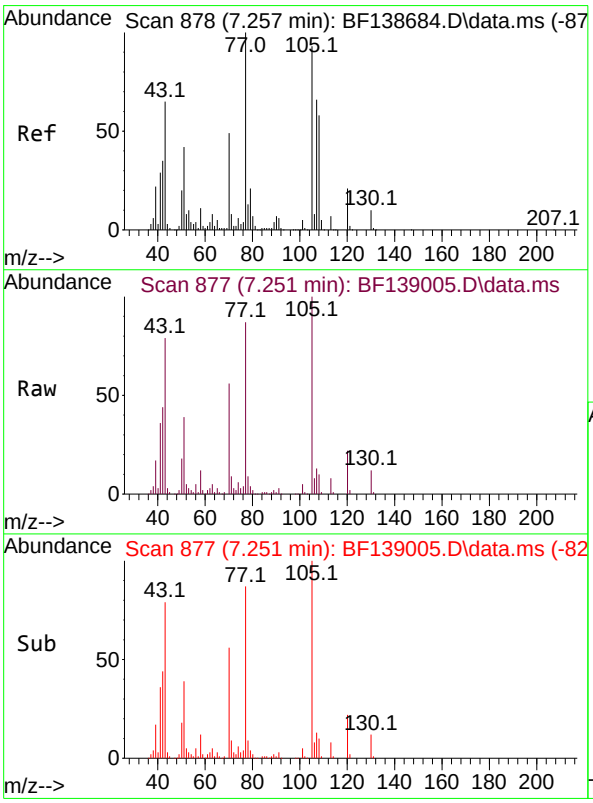

#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.116 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MSD

Tgt Ion:136 Resp: 122342

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.7 | 8.9 | 13.3 |
| 54 | 10.2 | 8.6 | 12.8 |
| 68 | 5.6 | 4.8 | 7.2 |

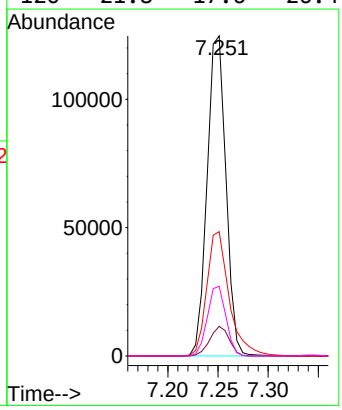


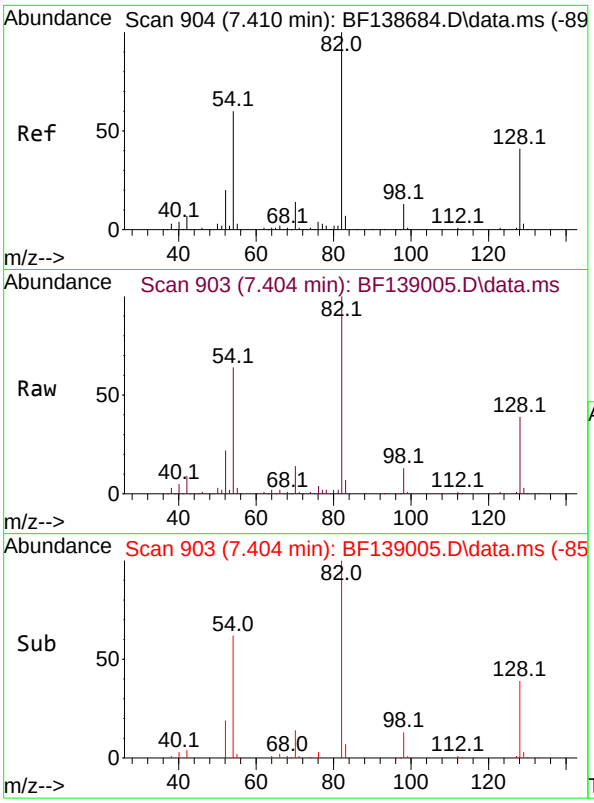




#22
Acetophenone
Concen: 54.455 ng
RT: 7.251 min Scan# 877
Delta R.T. -0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:105 Resp: 163123

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 71 | 9.3 | 7.2 | 10.8 |
| 51 | 38.8 | 35.9 | 53.9 |
| 120 | 21.8 | 17.6 | 26.4 |



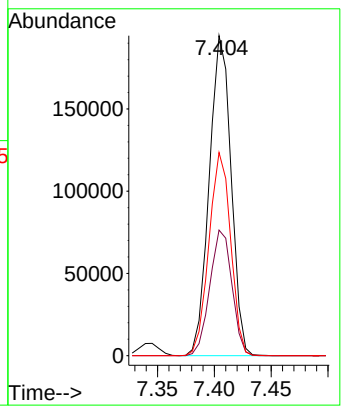


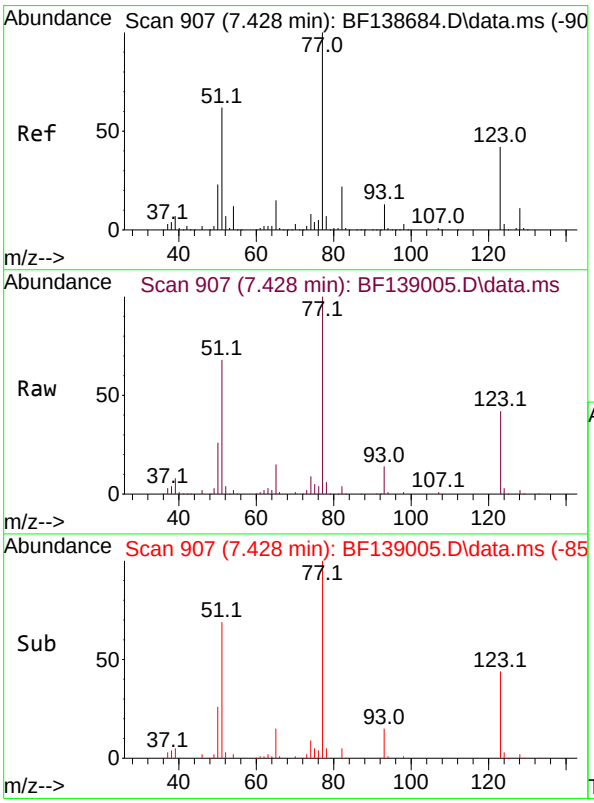

#23
Nitrobenzene-d5
Concen: 103.901 ng
RT: 7.404 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MSD

Tgt Ion: 82 Resp: 259995

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 39.3 | 32.8 | 49.2 |
| 54 | 63.5 | 48.3 | 72.5 |

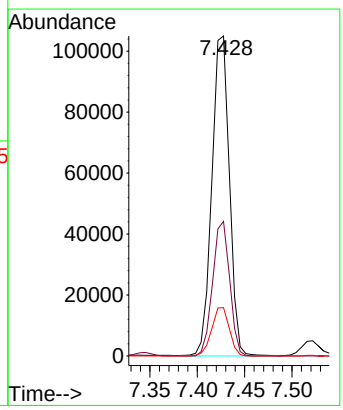


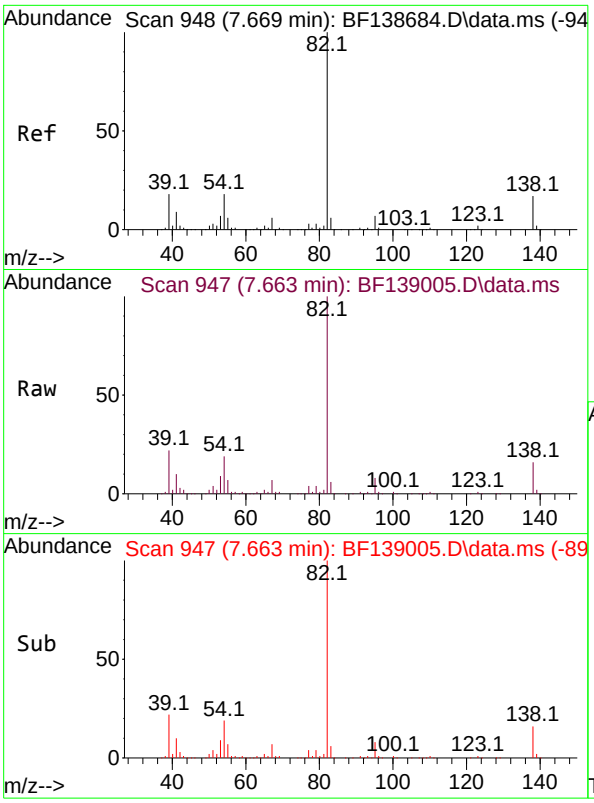




#24
Nitrobenzene
Concen: 53.032 ng
RT: 7.428 min Scan# 907
Delta R.T. -0.000 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion: 77 Resp: 135036

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 123 | 42.0 | 33.3 | 49.9 |
| 65 | 15.1 | 11.9 | 17.9 |



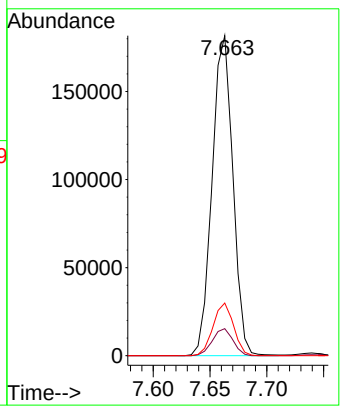


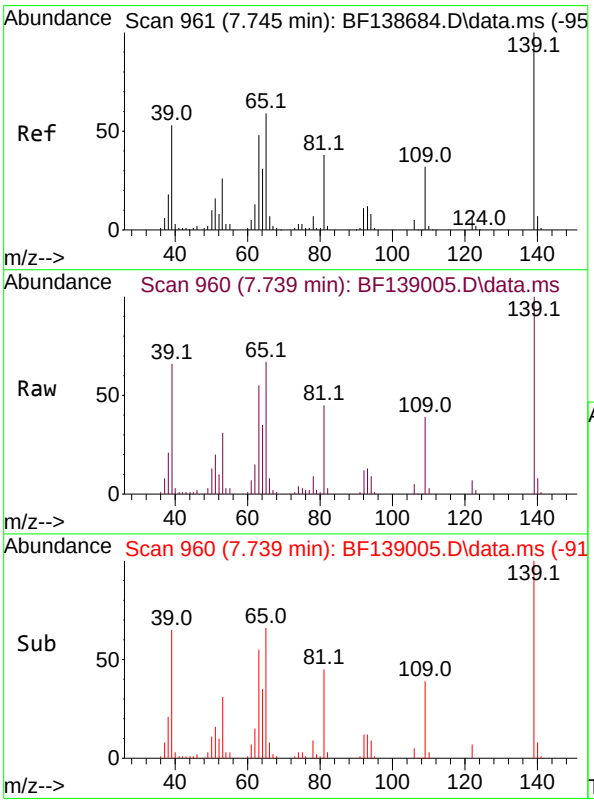

#25
Isophorone
Concen: 54.155 ng
RT: 7.663 min Scan# 94
Delta R.T. -0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MSD

Tgt Ion: 82 Resp: 231397

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 95 | 8.4 | 5.7 | 8.5 |
| 138 | 16.4 | 13.7 | 20.5 |

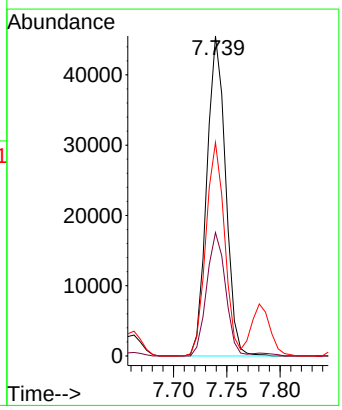


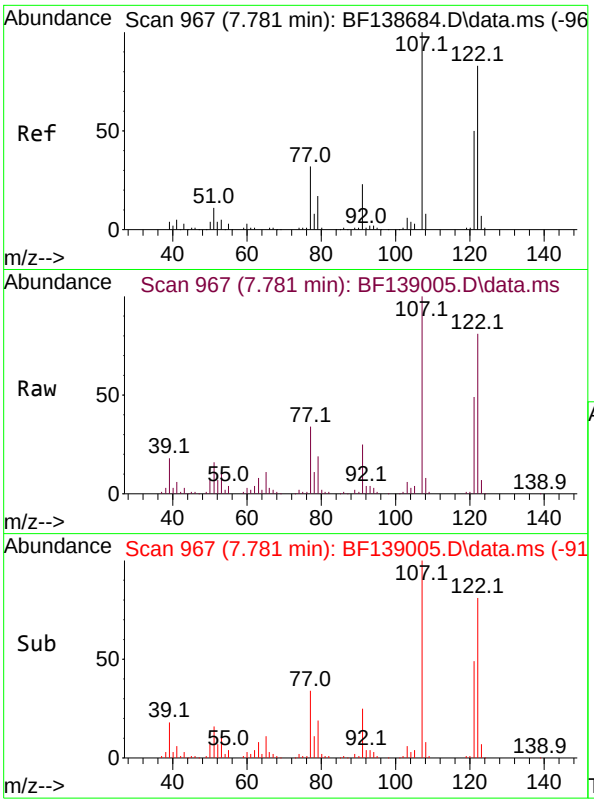




#26
2-Nitrophenol
Concen: 50.899 ng
RT: 7.739 min Scan# 960
Delta R.T. -0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:139 Resp: 55760

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 38.5 | 25.9 | 38.9 |
| 65 | 66.7 | 47.0 | 70.6 |



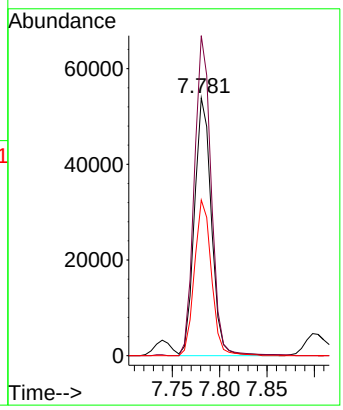


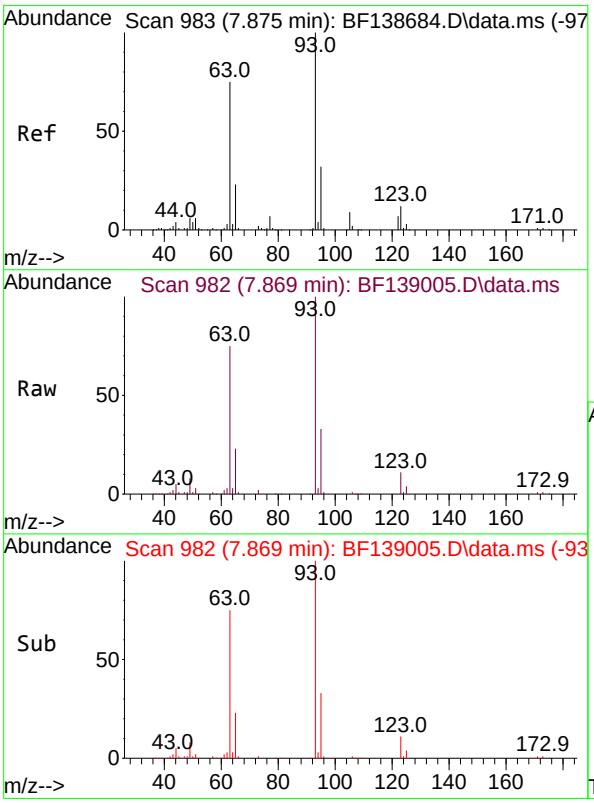

#27
2,4-Dimethylphenol
Concen: 51.348 ng
RT: 7.781 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MSD

Tgt Ion:122 Resp: 67303

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 107 | 124.1 | 95.0 | 142.6 |
| 121 | 60.4 | 47.3 | 70.9 |

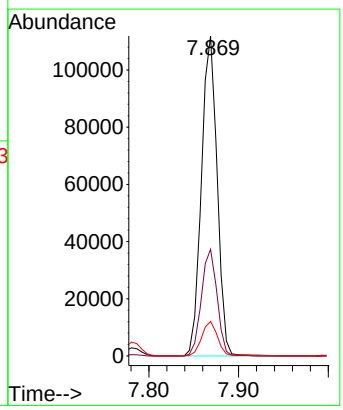


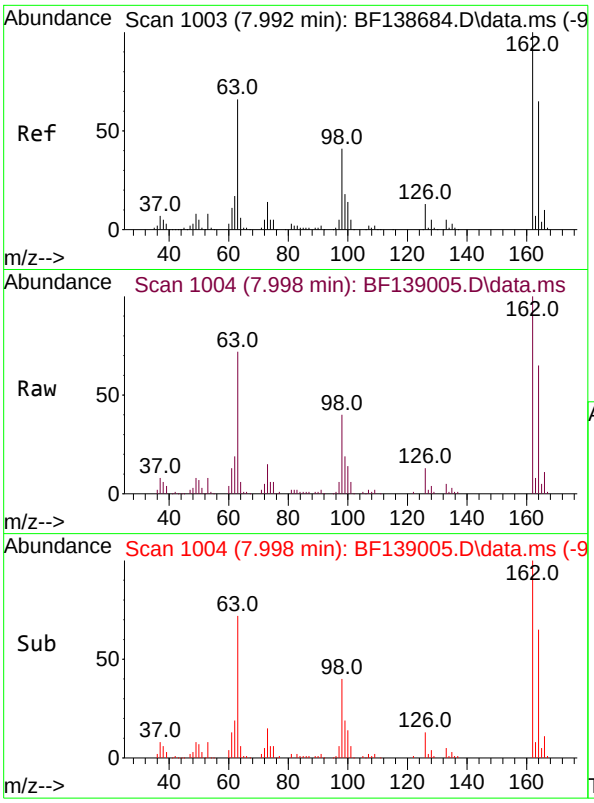




#28
bis(2-Chloroethoxy)methane
Concen: 52.256 ng
RT: 7.869 min Scan# 982
Delta R.T. -0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion: 93 Resp: 135972

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 33.4 | 25.8 | 38.8 |
| 123 | 10.8 | 9.4 | 14.0 |



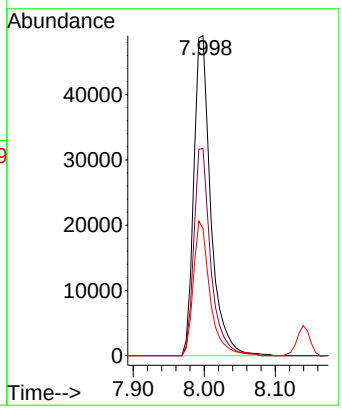


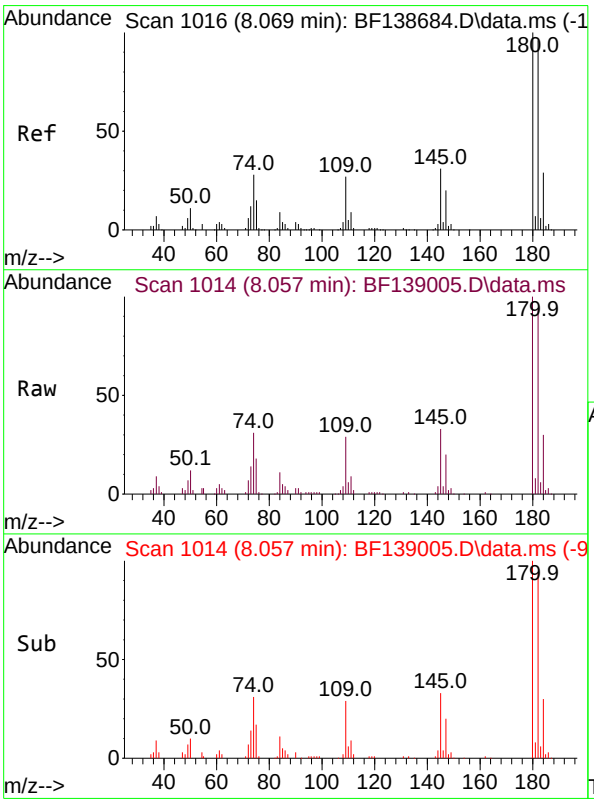

#29
2,4-Dichlorophenol
Concen: 48.446 ng
RT: 7.998 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MSD

Tgt Ion:162 Resp: 81596

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 164 | 64.7 | 44.7 | 84.7 |
| 98 | 39.7 | 20.8 | 60.8 |

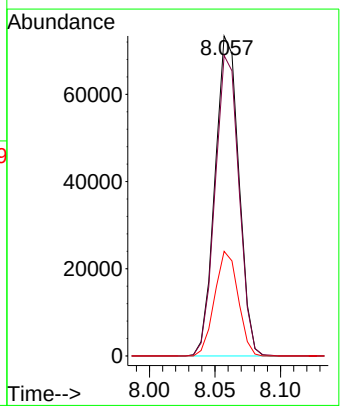


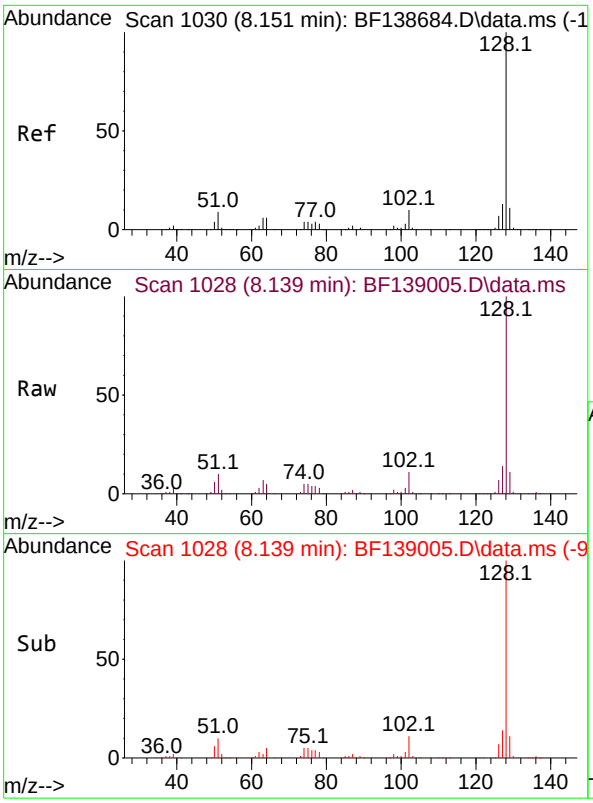




#30
1,2,4-Trichlorobenzene
Concen: 47.627 ng
RT: 8.057 min Scan# 1014
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:180 Resp: 92571

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.9 | 76.9 | 115.3 |
| 145 | 32.7 | 25.0 | 37.4 |



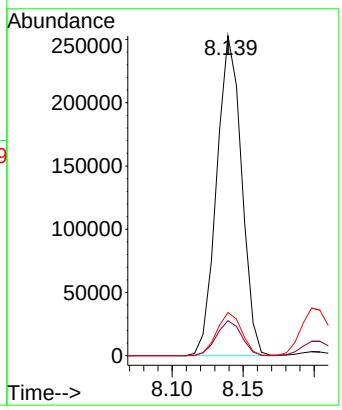


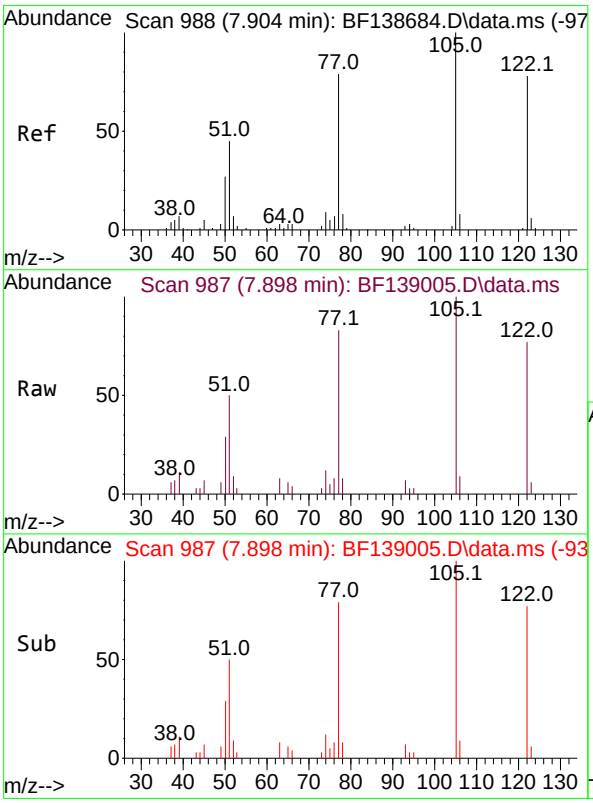

#31
Naphthalene
Concen: 47.784 ng
RT: 8.139 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MSD

Tgt Ion:128 Resp: 307717

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.0 | 8.7 | 13.1 |
| 127 | 13.5 | 10.6 | 16.0 |

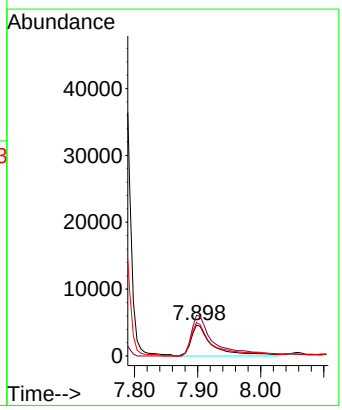


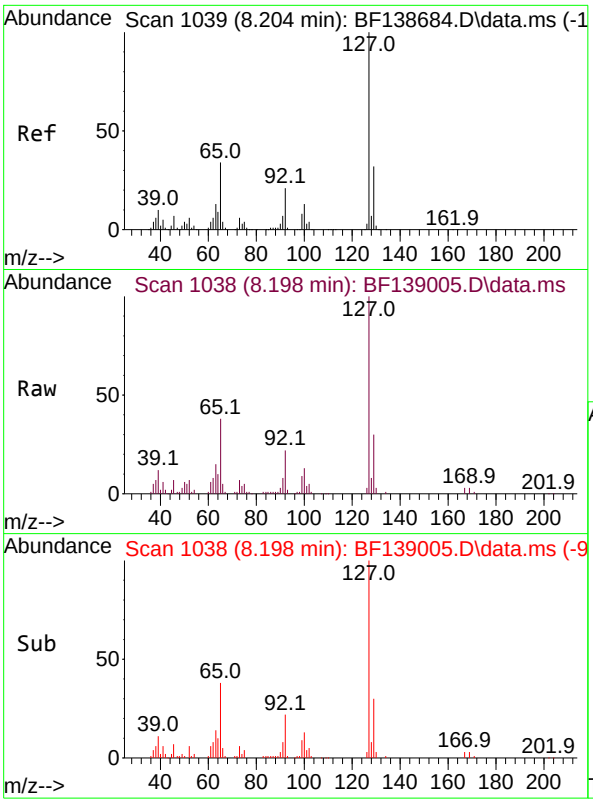




#32
Benzoic acid
Concen: 10.616 ng
RT: 7.898 min Scan# 987
Delta R.T. -0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:122 Resp: 10938

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 130.6 | 106.7 | 146.7 |
| 77 | 108.1 | 81.1 | 121.1 |



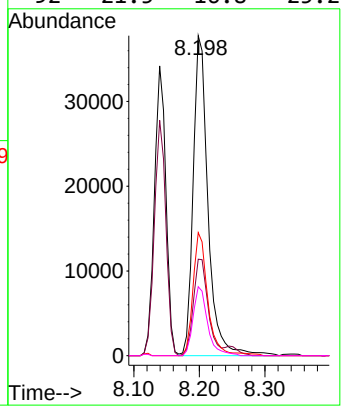


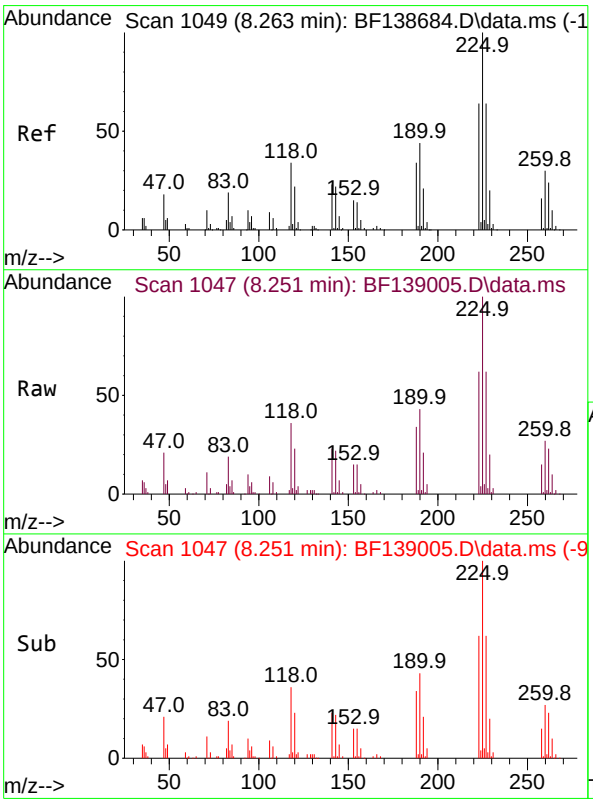

#33
4-Chloroaniline
Concen: 27.559 ng
RT: 8.198 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MSD

Tgt Ion:127 Resp: 59573

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 30.1 | 25.9 | 38.9 |
| 65 | 38.5 | 27.6 | 41.4 |
| 92 | 21.5 | 16.8 | 25.2 |

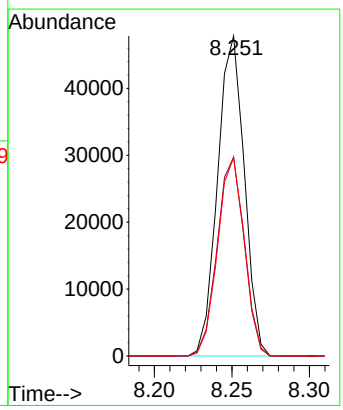


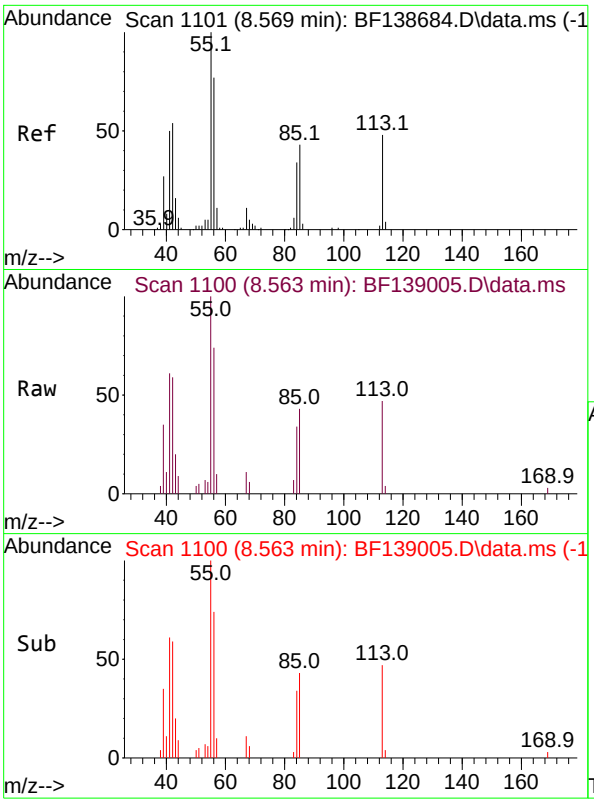




#34
Hexachlorobutadiene
Concen: 48.787 ng
RT: 8.251 min Scan# 1047
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:225 Resp: 57436

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.1 | 51.2 | 76.8 |
| 227 | 61.9 | 51.1 | 76.7 |



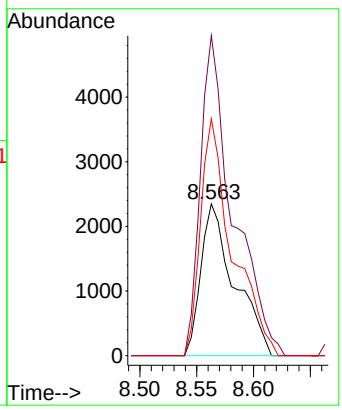


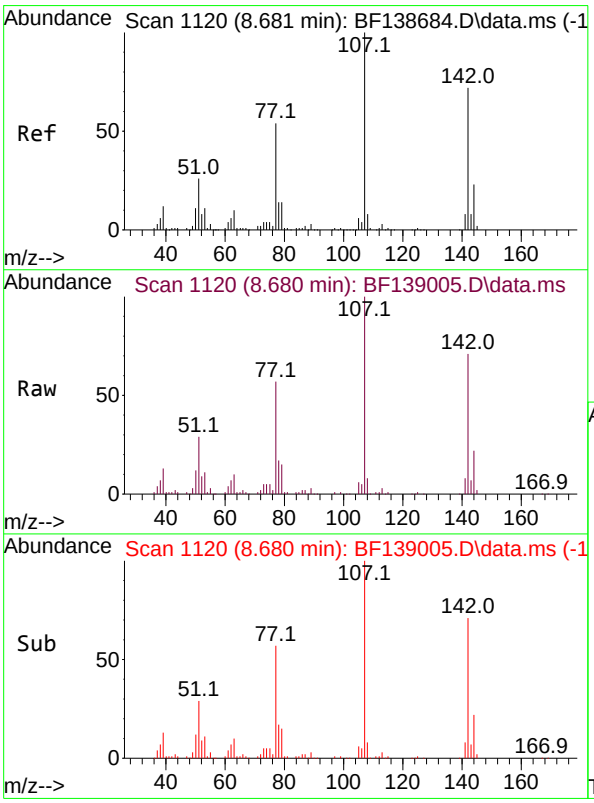

#35
Caprolactam
Concen: 9.595 ng
RT: 8.563 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MSD

Tgt Ion:113 Resp: 4822

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 55 | 210.8 | 186.7 | 226.7 |
| 56 | 155.9 | 138.9 | 178.9 |

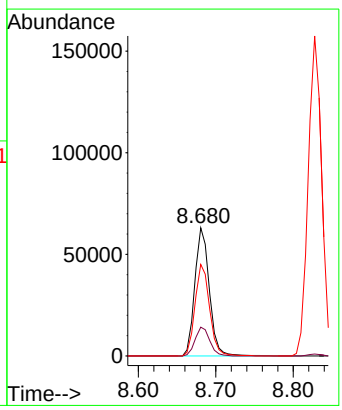


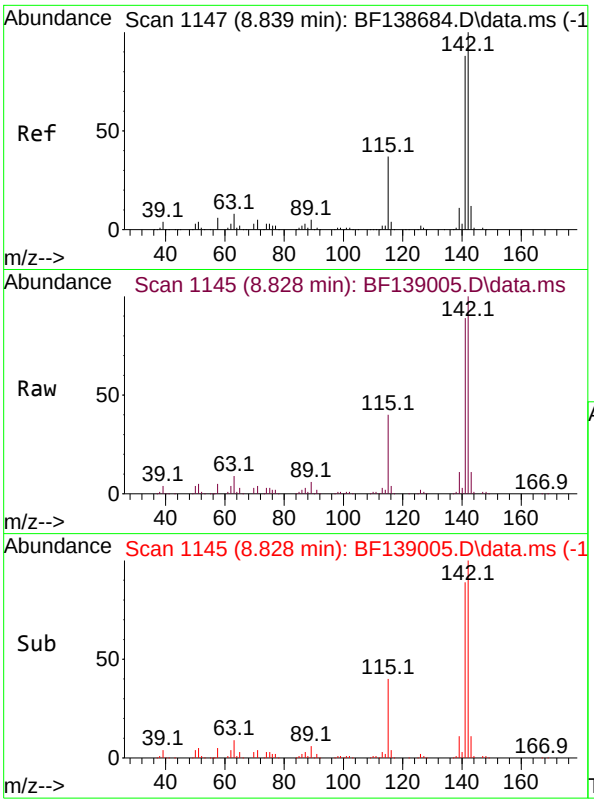




#36
4-Chloro-3-methylphenol
Concen: 42.646 ng
RT: 8.680 min Scan# 1120
Delta R.T. -0.000 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:107 Resp: 82087

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 144 | 22.5 | 18.2 | 27.2 |
| 142 | 71.4 | 57.4 | 86.2 |



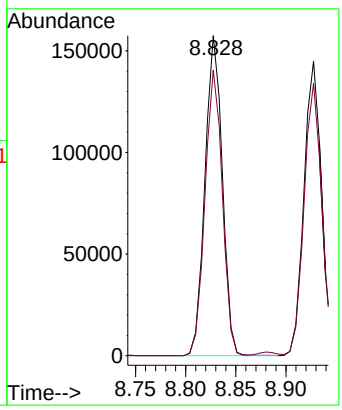


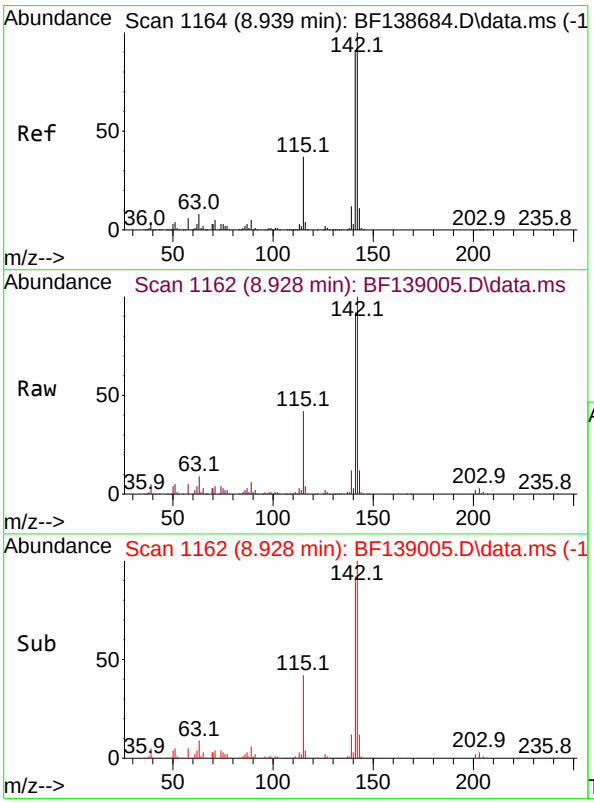

#37
2-Methylnaphthalene
Concen: 46.746 ng
RT: 8.828 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MSD

Tgt Ion:142 Resp: 190117

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 89.2 | 70.8 | 106.2 |

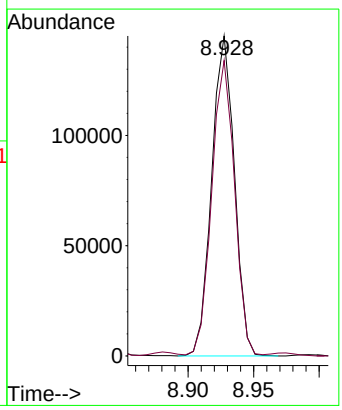


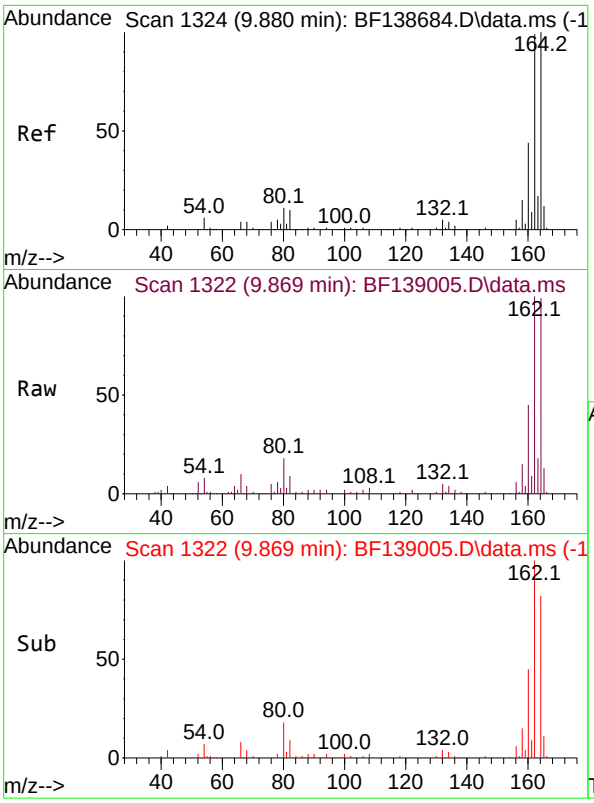




#38
1-Methylnaphthalene
Concen: 43.867 ng
RT: 8.928 min Scan# 1162
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:142 Resp: 174825

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 92.4 | 73.1 | 109.7 |



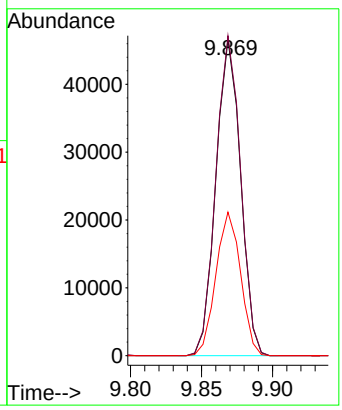


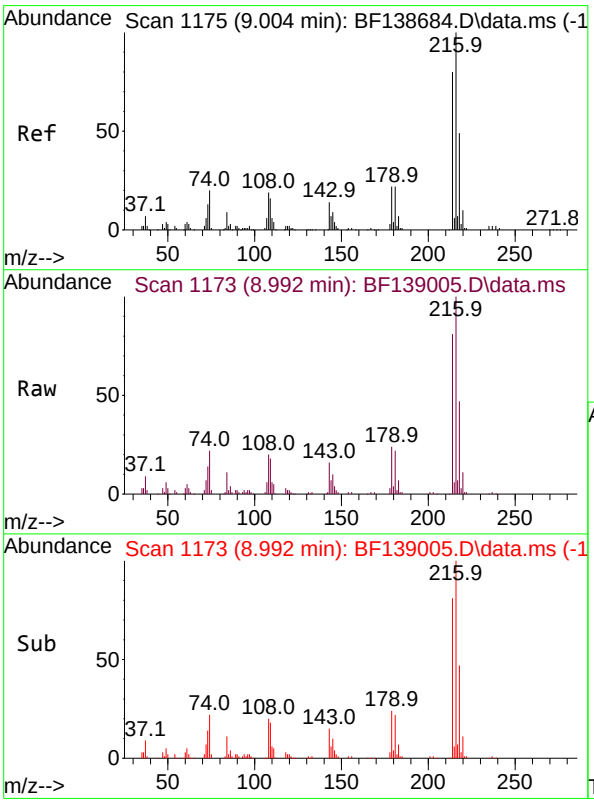

#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.869 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MSD

Tgt Ion:164 Resp: 56215

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 101.3 | 79.4 | 119.0 |
| 160 | 45.4 | 35.1 | 52.7 |

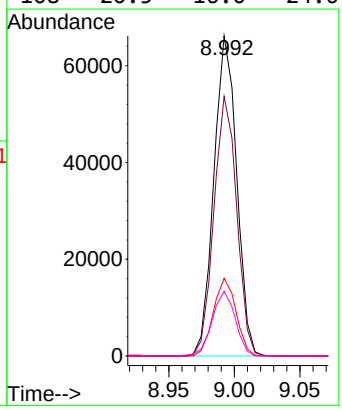


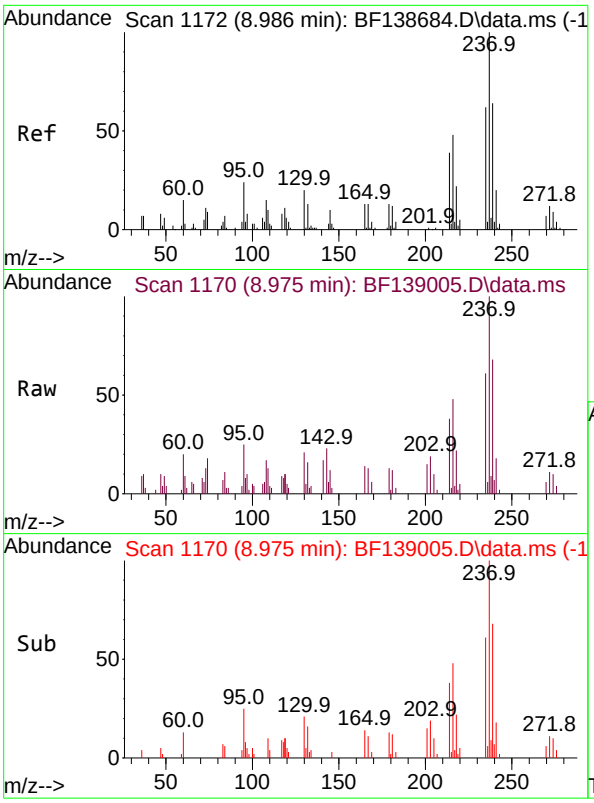




#40
1,2,4,5-Tetrachlorobenzene
Concen: 51.148 ng
RT: 8.992 min Scan# 1173
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:216 Resp: 79872

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 216 | 100 | | |
| 214 | 80.8 | 63.9 | 95.9 |
| 179 | 24.1 | 17.8 | 26.6 |
| 108 | 20.5 | 16.0 | 24.0 |



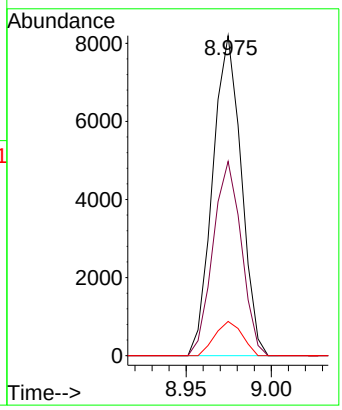


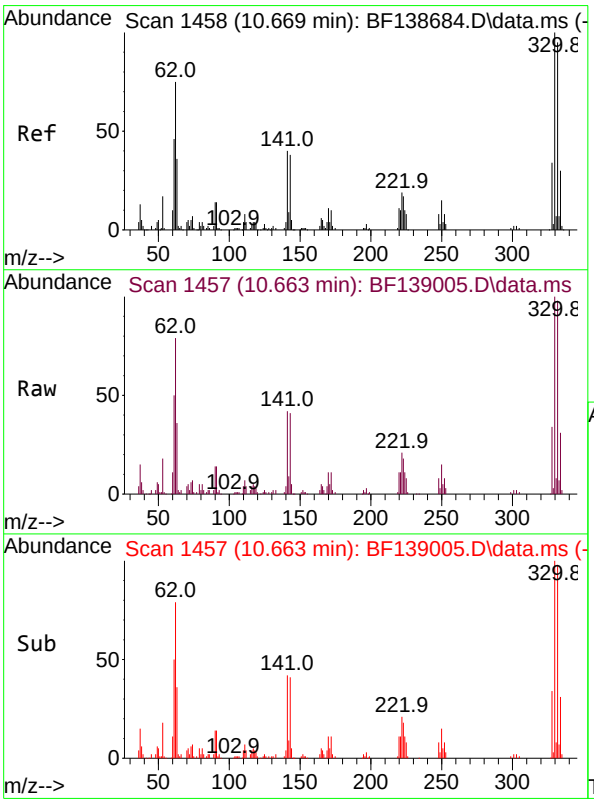

#41
Hexachlorocyclopentadiene
Concen: 28.039 ng
RT: 8.975 min Scan# 11
Delta R.T. -0.011 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MSD

Tgt Ion:237 Resp: 9541

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 237 | 100 | | |
| 235 | 60.7 | 41.8 | 81.8 |
| 272 | 10.7 | 0.0 | 32.2 |

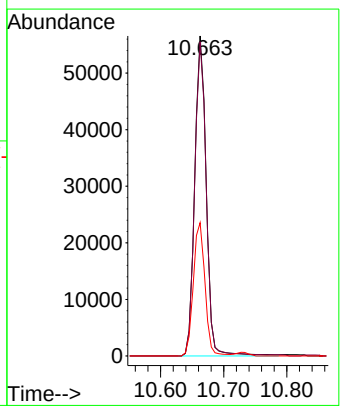


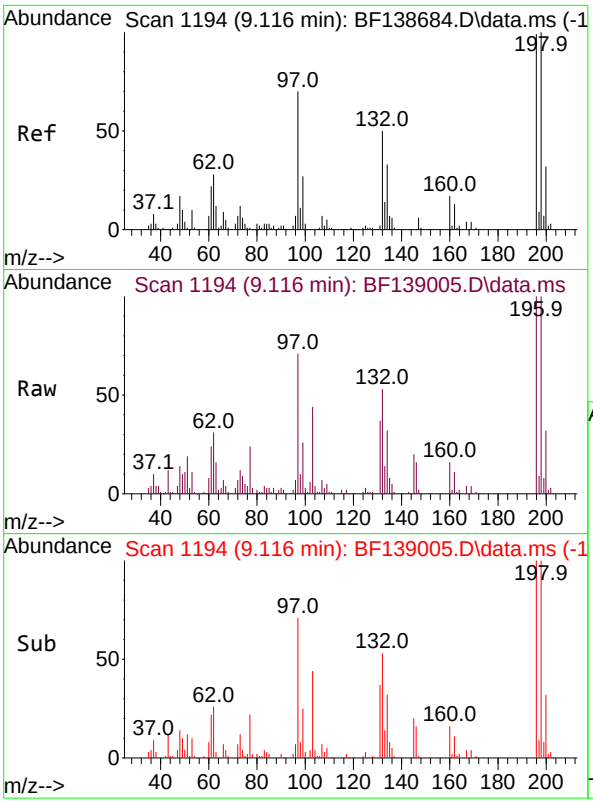




#42
2,4,6-Tribromophenol
Concen: 155.585 ng
RT: 10.663 min Scan# 1457
Delta R.T. -0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:330 Resp: 71643

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 98.6 | 76.4 | 114.6 |
| 141 | 42.1 | 31.1 | 46.7 |



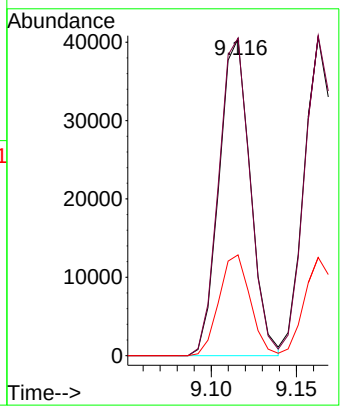


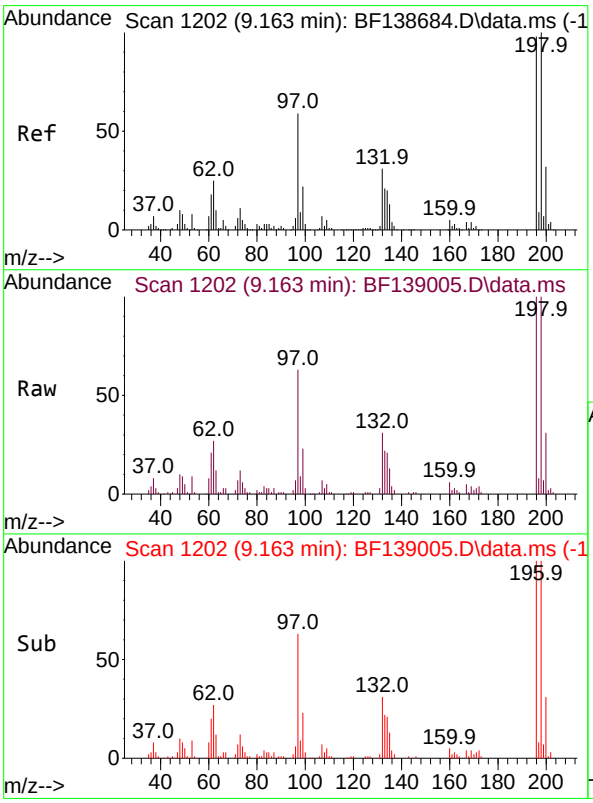

#43
2,4,6-Trichlorophenol
Concen: 54.068 ng
RT: 9.116 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MSD

Tgt Ion:196 Resp: 51479

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 100.1 | 80.5 | 120.7 |
| 200 | 31.8 | 25.9 | 38.9 |

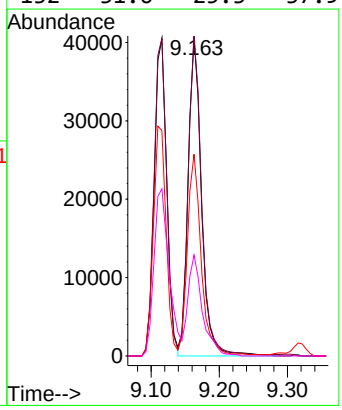


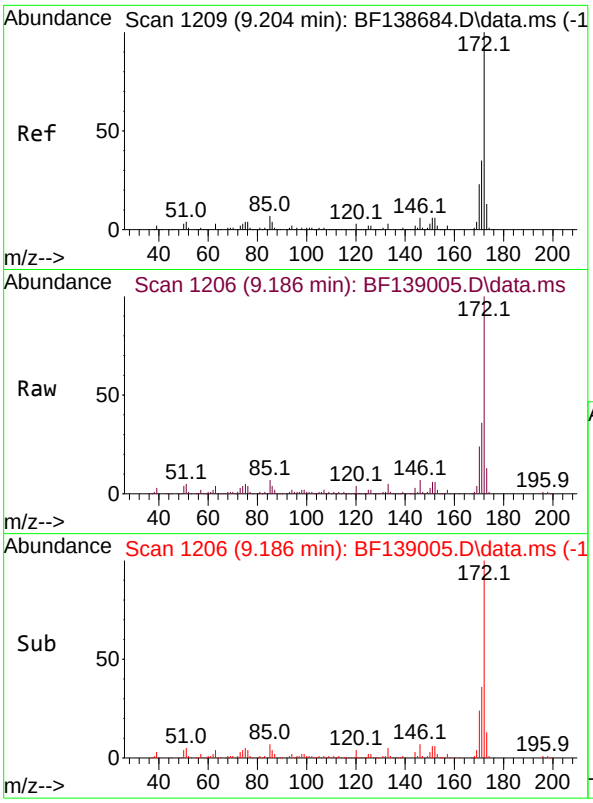




#44
2,4,5-Trichlorophenol
Concen: 53.124 ng
RT: 9.163 min Scan# 1202
Delta R.T. -0.000 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:196 Resp: 55295

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 100.5 | 81.2 | 121.8 |
| 97 | 63.3 | 47.8 | 71.6 |
| 132 | 31.6 | 25.3 | 37.9 |



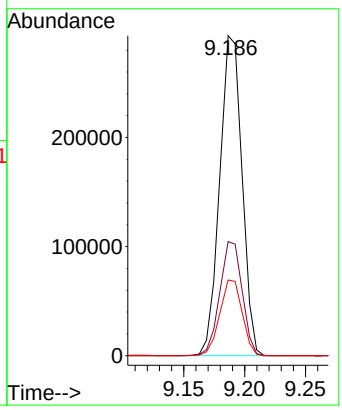


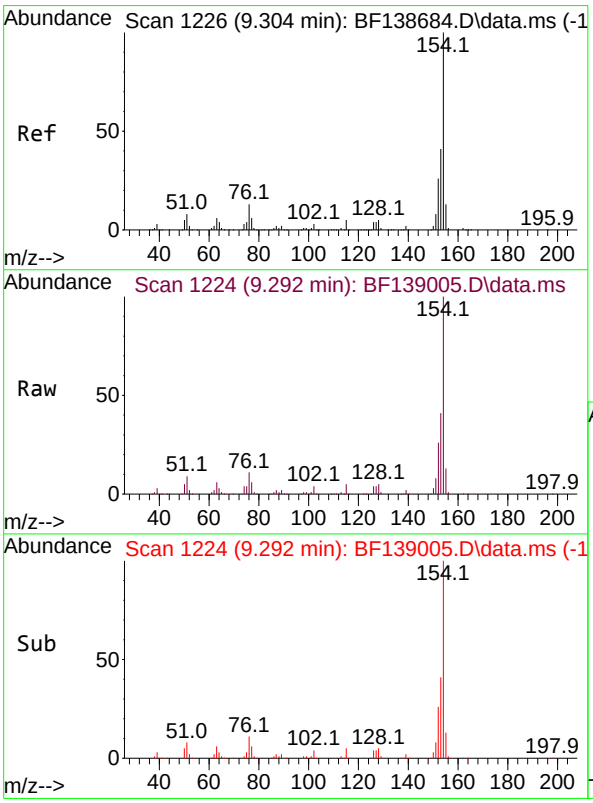

#45
2-Fluorobiphenyl
Concen: 100.065 ng
RT: 9.186 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MSD

Tgt Ion:172 Resp: 374387

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.7 | 28.3 | 42.5 |
| 170 | 23.7 | 18.8 | 28.2 |

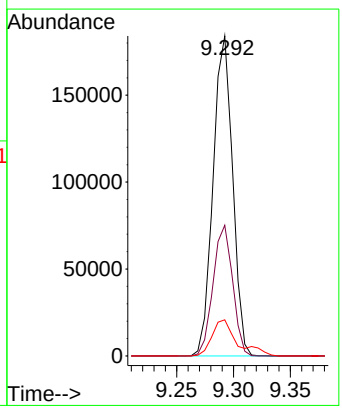


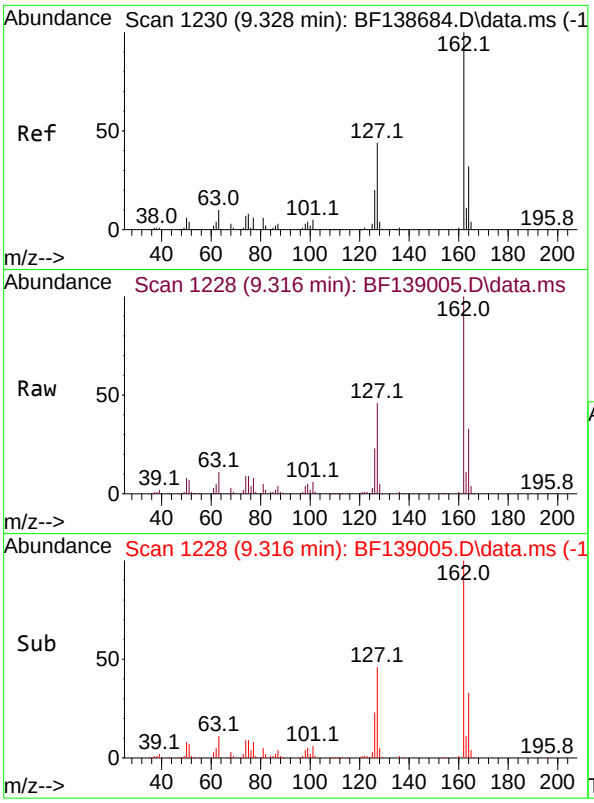




#46
1,1'-Biphenyl
Concen: 49.941 ng
RT: 9.292 min Scan# 1224
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:154 Resp: 219875

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 40.9 | 20.8 | 60.8 |
| 76 | 11.3 | 0.0 | 32.8 |



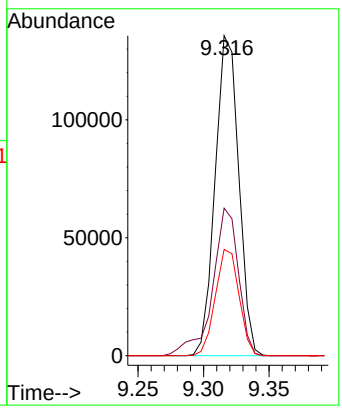


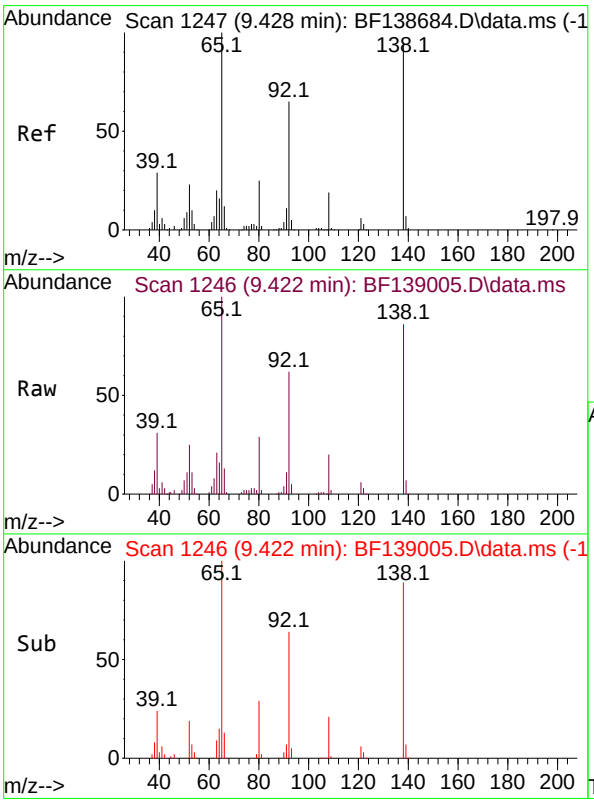

#47
2-Chloronaphthalene
Concen: 51.891 ng
RT: 9.316 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MSD

Tgt Ion:162 Resp: 169911

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 127 | 46.1 | 35.4 | 53.2 |
| 164 | 33.2 | 25.6 | 38.4 |

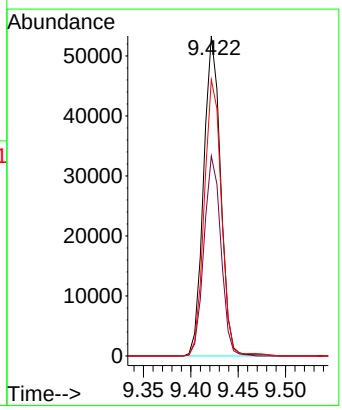


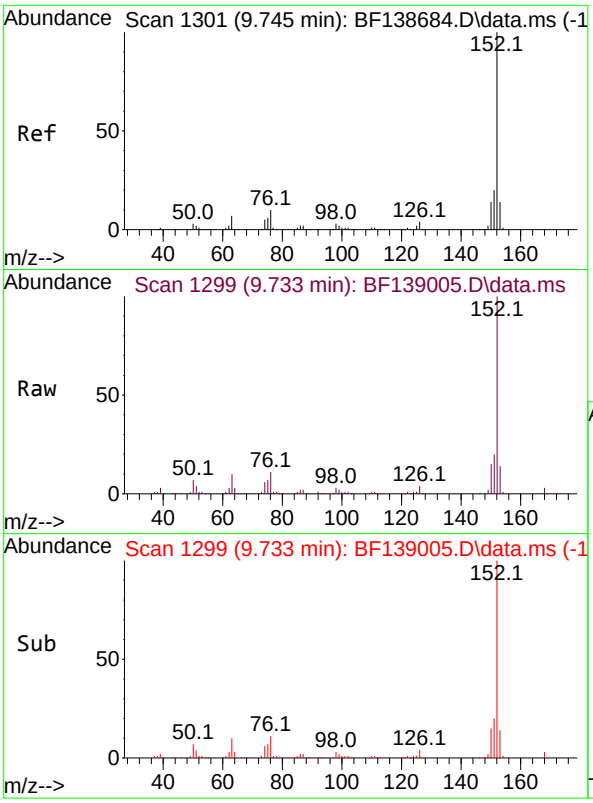




#48
2-Nitroaniline
Concen: 59.940 ng
RT: 9.422 min Scan# 1246
Delta R.T. -0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion: 65 Resp: 66537

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 92 | 62.5 | 52.0 | 78.0 |
| 138 | 86.4 | 76.2 | 114.4 |



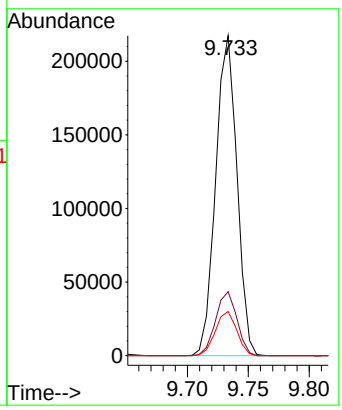


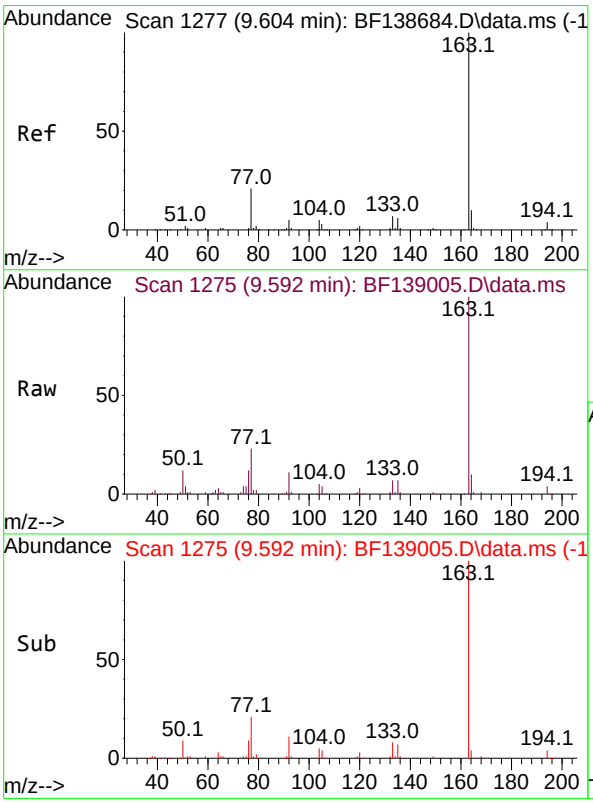

#49
Acenaphthylene
Concen: 56.863 ng
RT: 9.733 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MSD

Tgt Ion:152 Resp: 264075

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.0 | 16.0 | 24.0 |
| 153 | 13.8 | 11.0 | 16.4 |

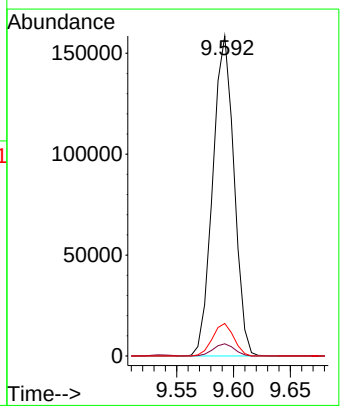


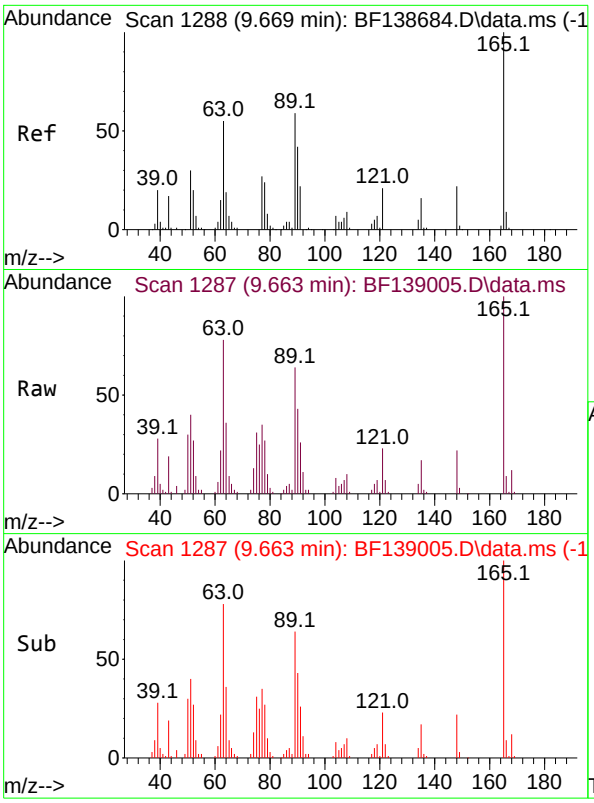




#50
Dimethylphthalate
Concen: 57.537 ng
RT: 9.592 min Scan# 1275
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:163 Resp: 206813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 3.8 | 3.1 | 4.7 |
| 164 | 10.1 | 7.8 | 11.8 |



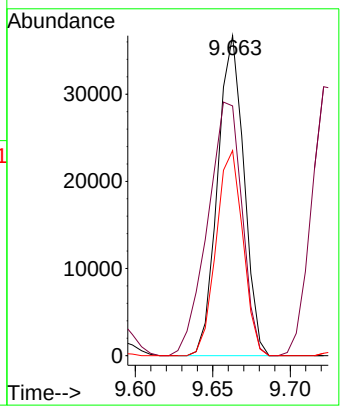


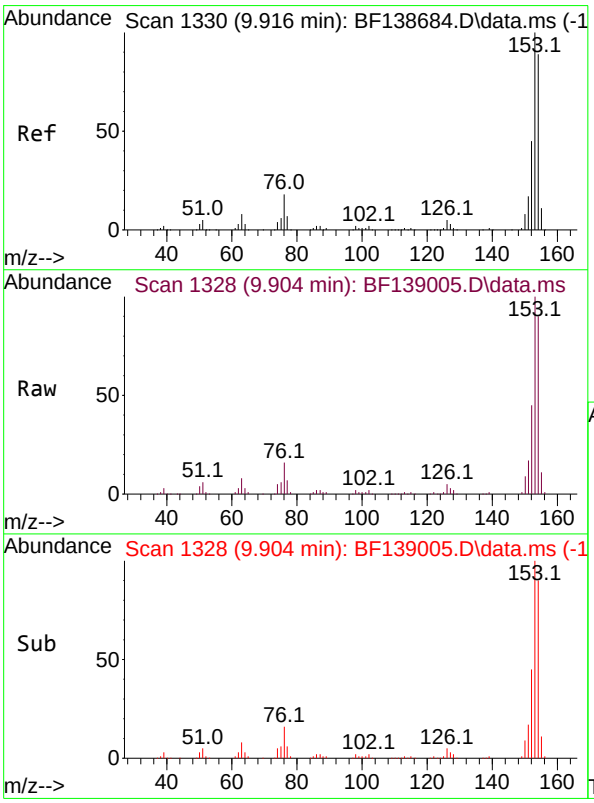

#51
2,6-Dinitrotoluene
Concen: 53.449 ng
RT: 9.663 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MSD

Tgt Ion:165 Resp: 43358

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 78.0 | 52.0 | 78.0# |
| 89 | 64.1 | 47.0 | 70.6 |

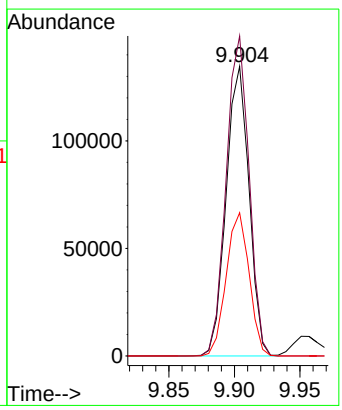


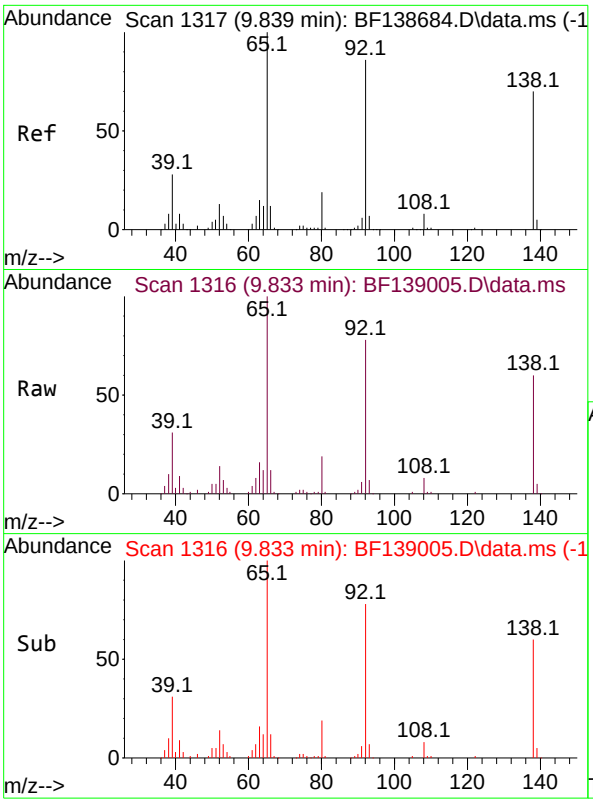




#52
Acenaphthene
Concen: 52.522 ng
RT: 9.904 min Scan# 1328
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:154 Resp: 163965

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 110.5 | 89.9 | 134.9 |
| 152 | 49.5 | 40.6 | 60.8 |



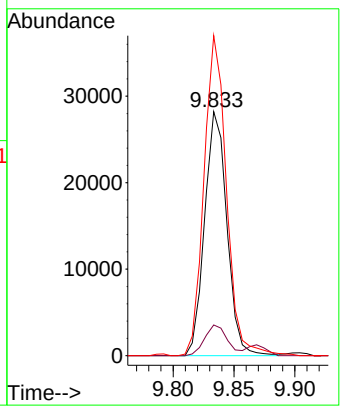


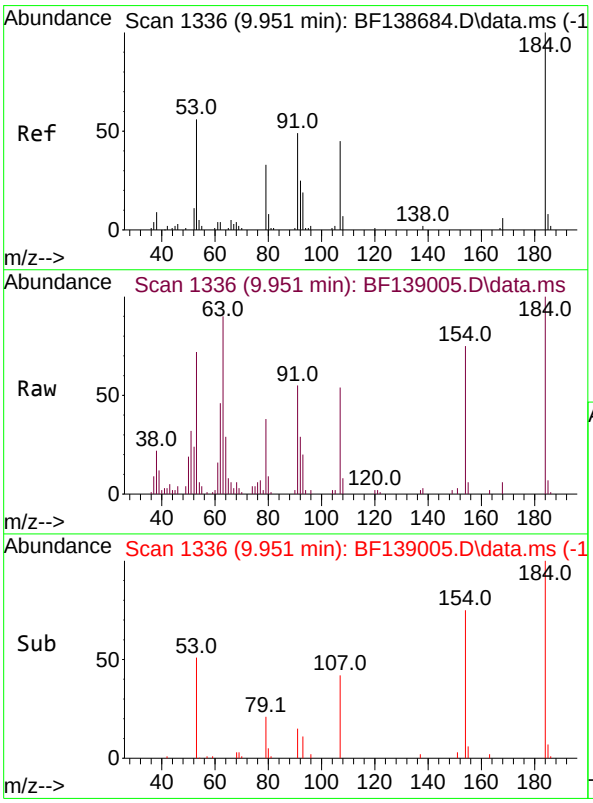

#53
3-Nitroaniline
Concen: 43.028 ng
RT: 9.833 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MSD

Tgt Ion:138 Resp: 36083

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 108 | 12.6 | 9.1 | 13.7 |
| 92 | 131.1 | 98.7 | 148.1 |

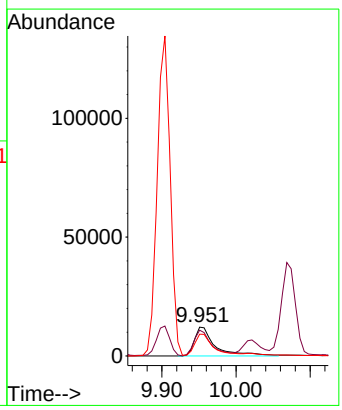


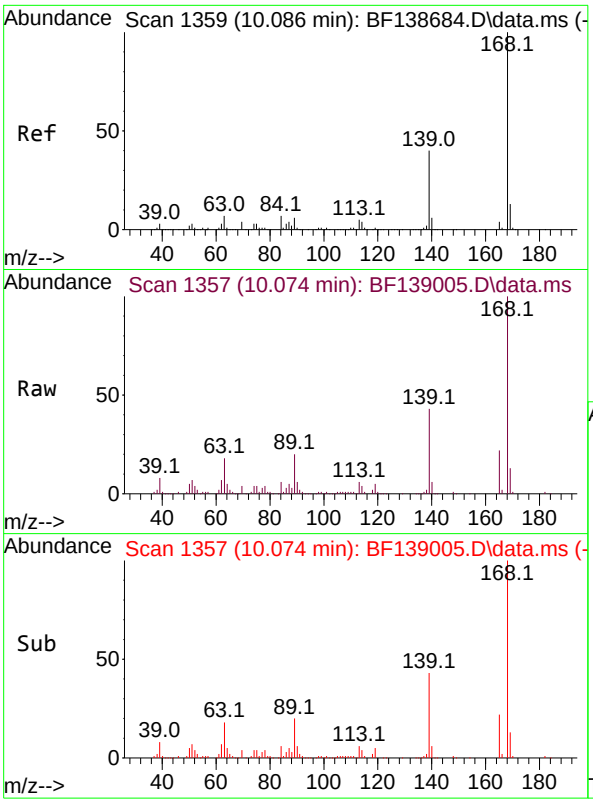




#54
2,4-Dinitrophenol
Concen: 63.226 ng
RT: 9.951 min Scan# 1336
Delta R.T. -0.000 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:184 Resp: 23610

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 63 | 89.5 | 57.5 | 86.3# |
| 154 | 75.3 | 51.7 | 77.5 |



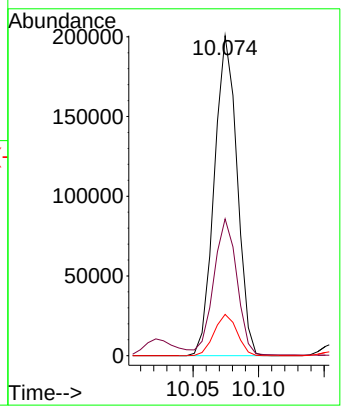


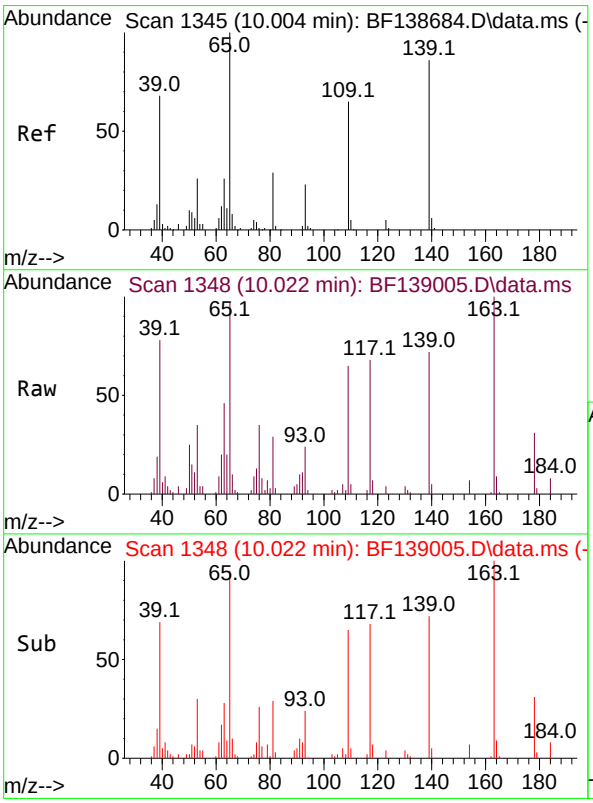

#55
Dibenzofuran
Concen: 54.801 ng
RT: 10.074 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MSD

Tgt Ion:168 Resp: 241498

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 42.8 | 32.6 | 49.0 |
| 169 | 12.9 | 10.7 | 16.1 |

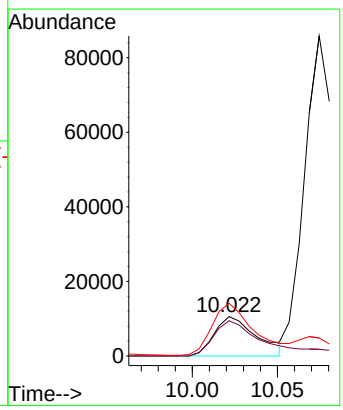


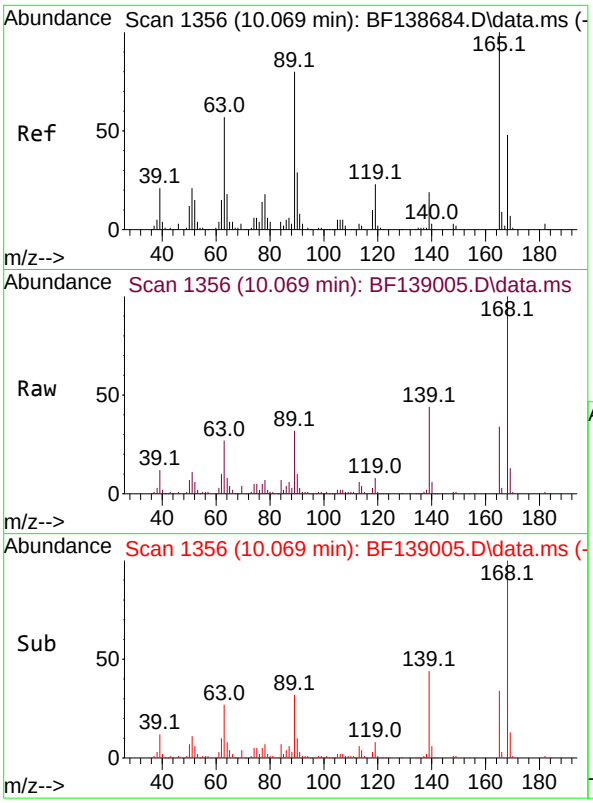




#56
4-Nitrophenol
Concen: 36.031 ng
RT: 10.022 min Scan# 1348
Delta R.T. 0.018 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:139 Resp: 18170

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 89.7 | 55.5 | 95.5 |
| 65 | 133.9 | 96.7 | 136.7 |



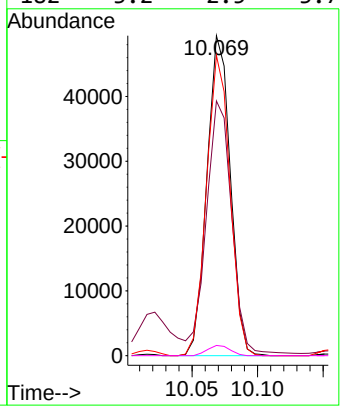


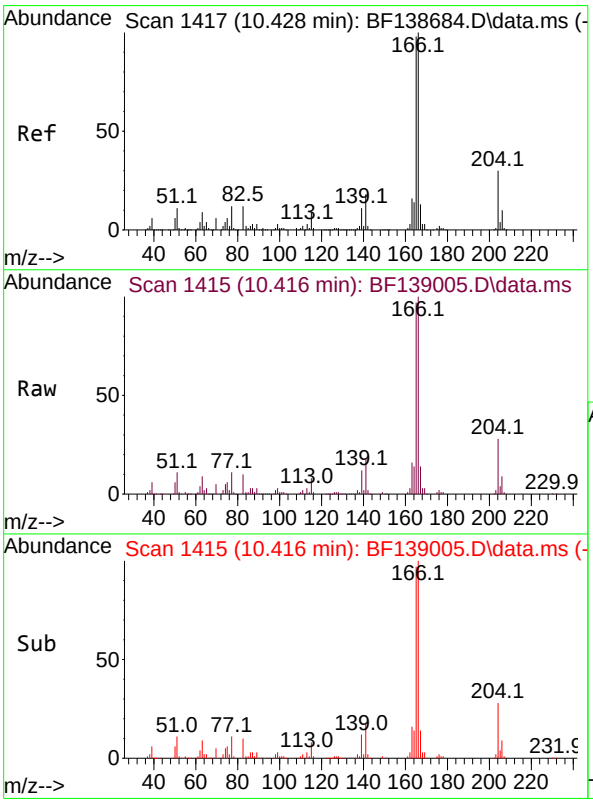

#57
2,4-Dinitrotoluene
Concen: 59.264 ng
RT: 10.069 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MSD

Tgt Ion:165 Resp: 61336

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 79.6 | 46.3 | 69.5# |
| 89 | 93.8 | 64.2 | 96.4 |
| 182 | 3.2 | 2.5 | 3.7 |

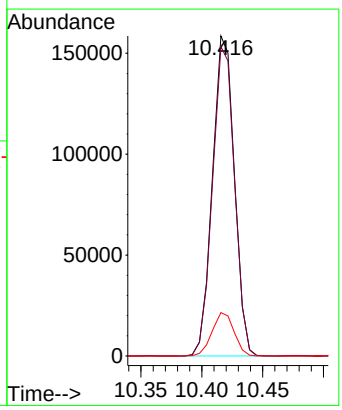


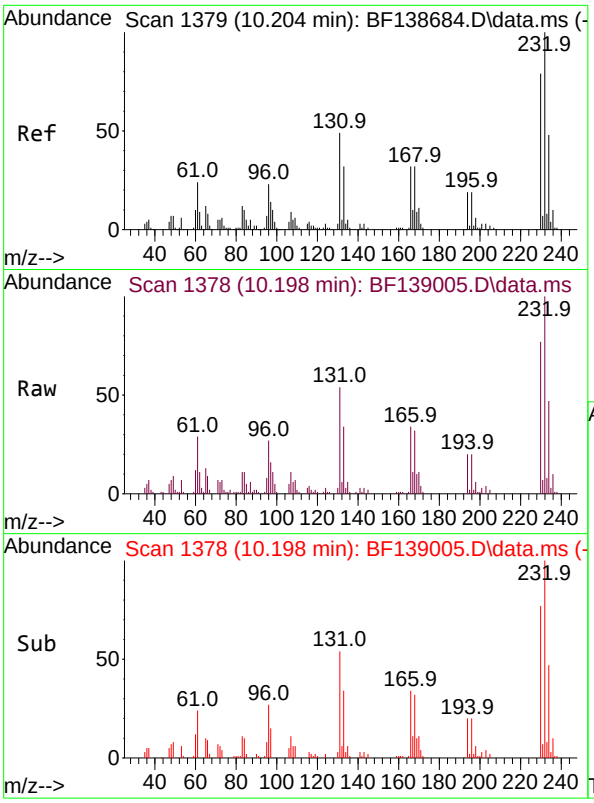




#58
Fluorene
Concen: 56.725 ng
RT: 10.416 min Scan# 1415
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:166 Resp: 199064

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 96.7 | 78.4 | 117.6 |
| 167 | 13.5 | 10.6 | 16.0 |



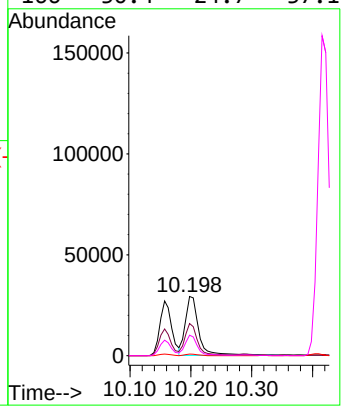


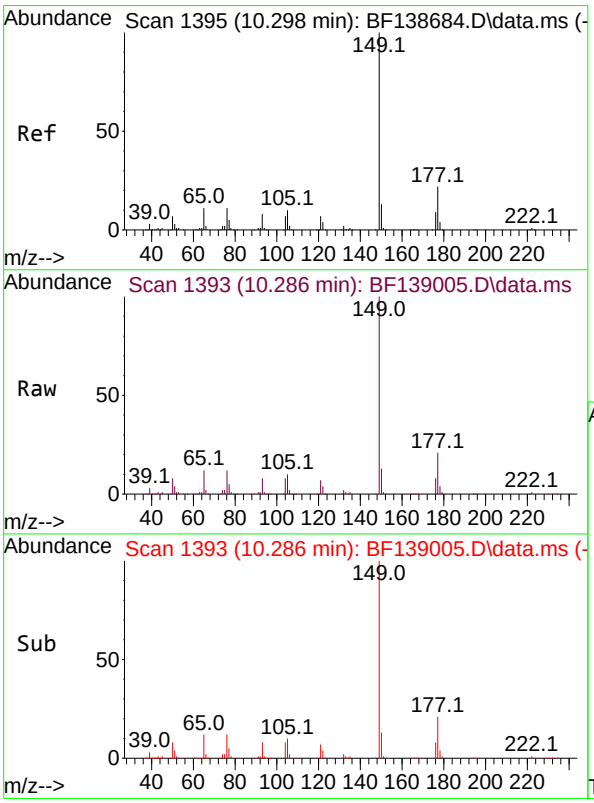

#59
2,3,4,6-Tetrachlorophenol
Concen: 56.042 ng
RT: 10.198 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MSD

Tgt Ion:232 Resp: 44596

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 232 | 100 | | |
| 131 | 50.0 | 37.0 | 55.4 |
| 130 | 2.6 | 2.0 | 3.0 |
| 166 | 30.4 | 24.7 | 37.1 |

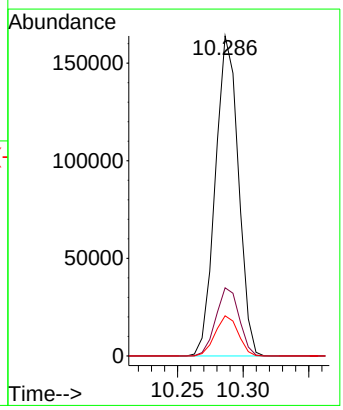


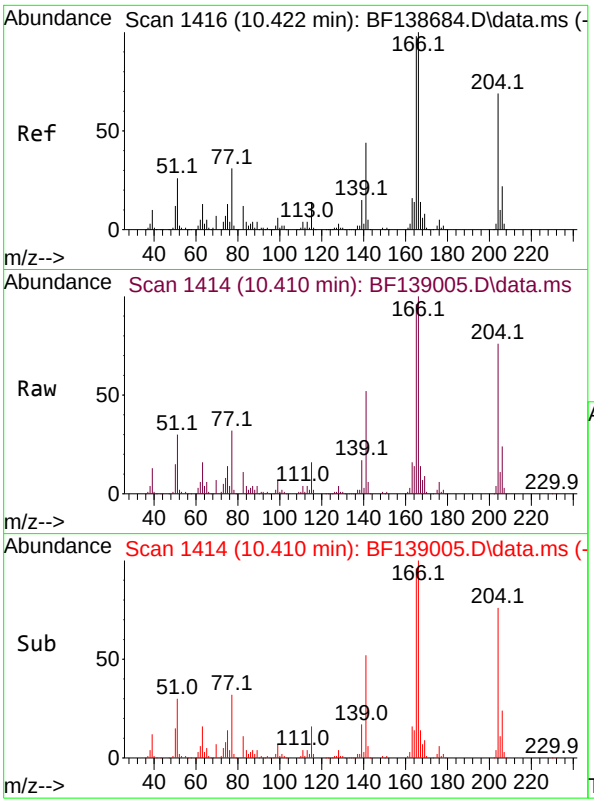




#60
Diethylphthalate
Concen: 58.754 ng
RT: 10.286 min Scan# 1393
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:149 Resp: 200243

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 177 | 21.3 | 17.8 | 26.8 |
| 150 | 12.6 | 10.1 | 15.1 |



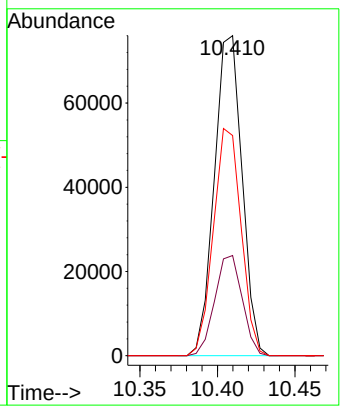


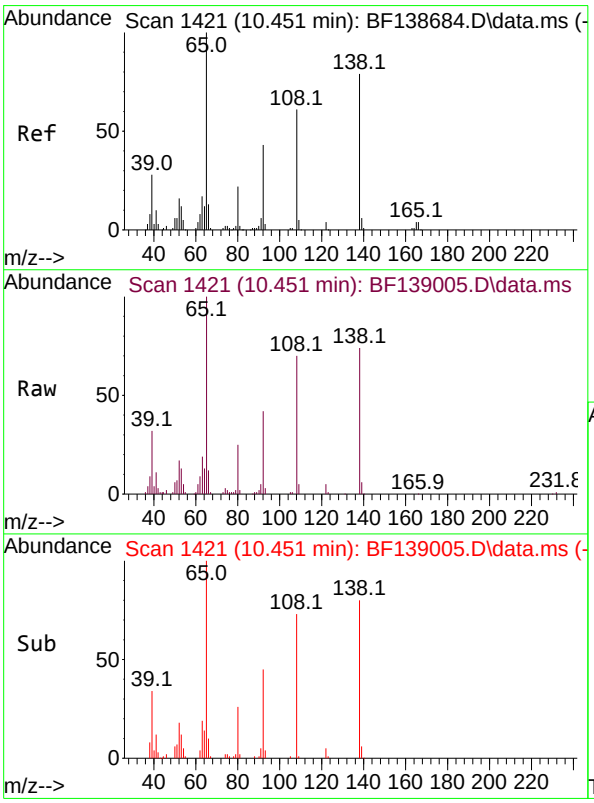

#61
4-Chlorophenyl-phenylether
Concen: 54.841 ng
RT: 10.410 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MSD

Tgt Ion:204 Resp: 94653

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 204 | 100 | | |
| 206 | 31.3 | 26.1 | 39.1 |
| 141 | 68.8 | 51.4 | 77.0 |

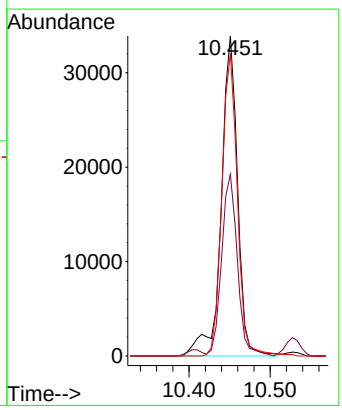


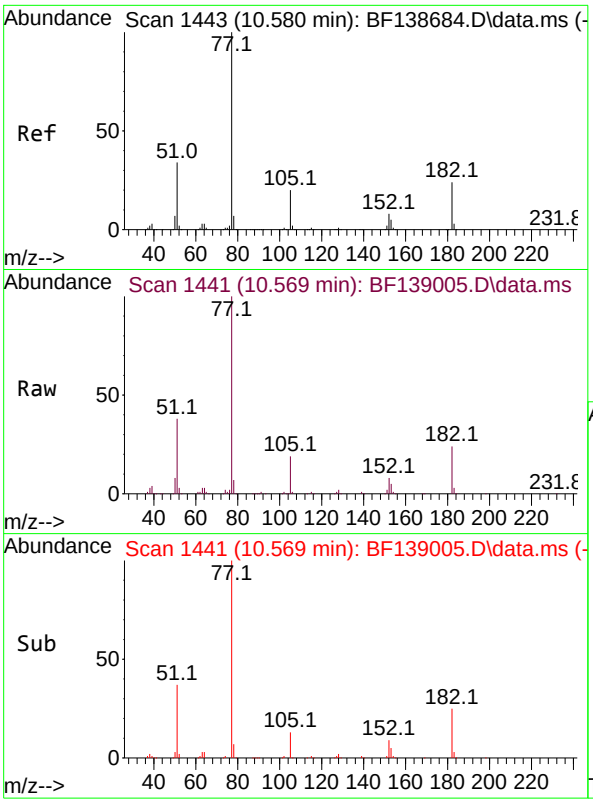




#62
4-Nitroaniline
Concen: 59.680 ng
RT: 10.451 min Scan# 1421
Delta R.T. -0.000 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:138 Resp: 47561

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 56.8 | 34.2 | 74.2 |
| 108 | 94.6 | 56.2 | 96.2 |



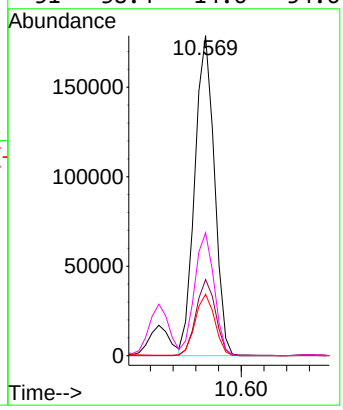


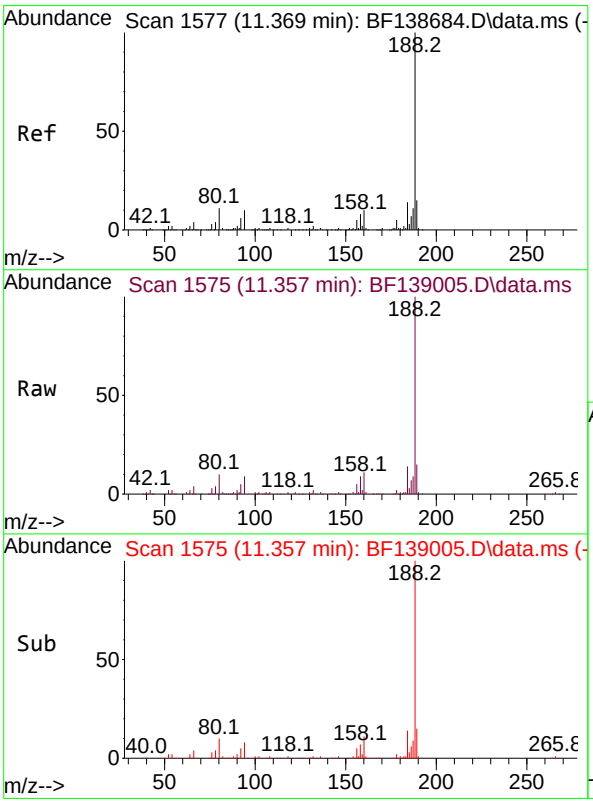

#63
Azobenzene
Concen: 56.668 ng
RT: 10.569 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MSD

Tgt Ion: 77 Resp: 214205

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 182 | 23.8 | 3.4 | 43.4 |
| 105 | 19.2 | 0.2 | 40.2 |
| 51 | 38.4 | 14.6 | 54.6 |

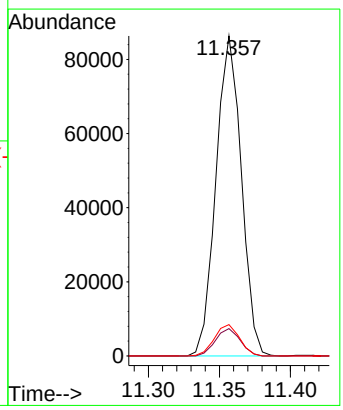


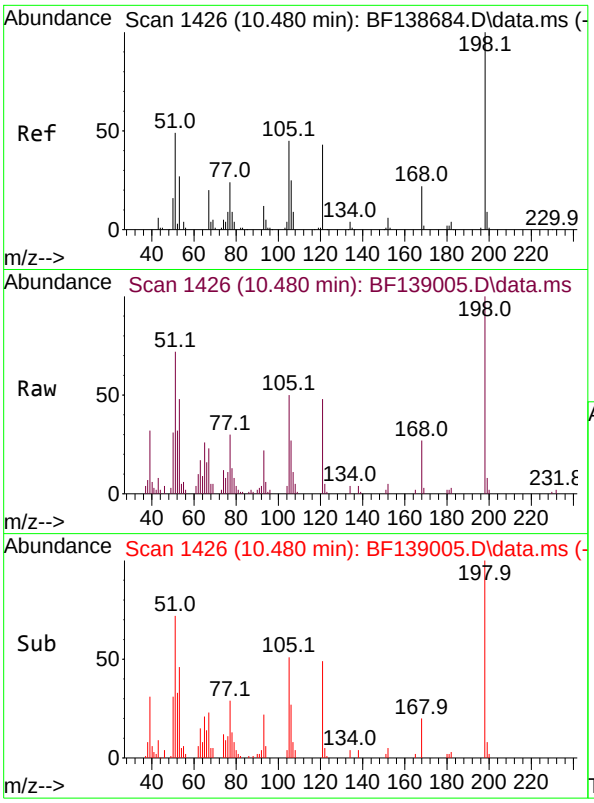




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.357 min Scan# 1575
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:188 Resp: 107145

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 8.6 | 7.6 | 11.4 |
| 80 | 9.8 | 8.6 | 12.8 |



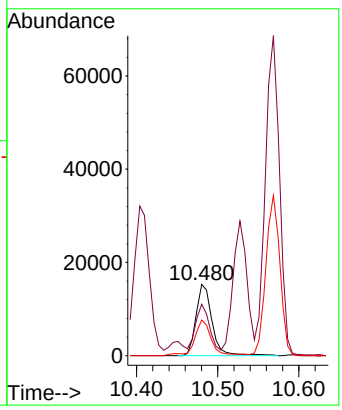


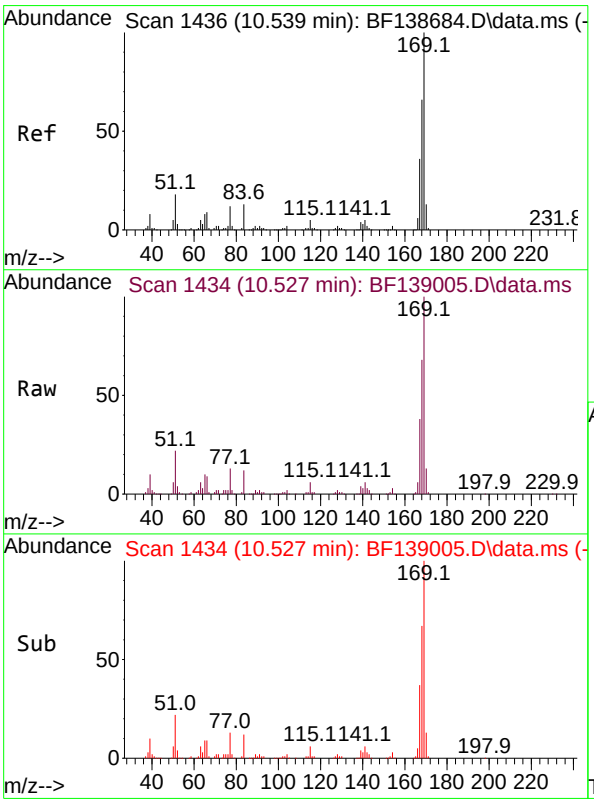

#65
4,6-Dinitro-2-methylphenol
Concen: 32.209 ng
RT: 10.480 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MSD

Tgt Ion:198 Resp: 21054

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 72.0 | 39.9 | 79.9 |
| 105 | 50.0 | 26.1 | 66.1 |

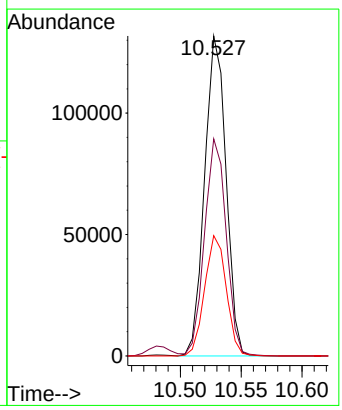


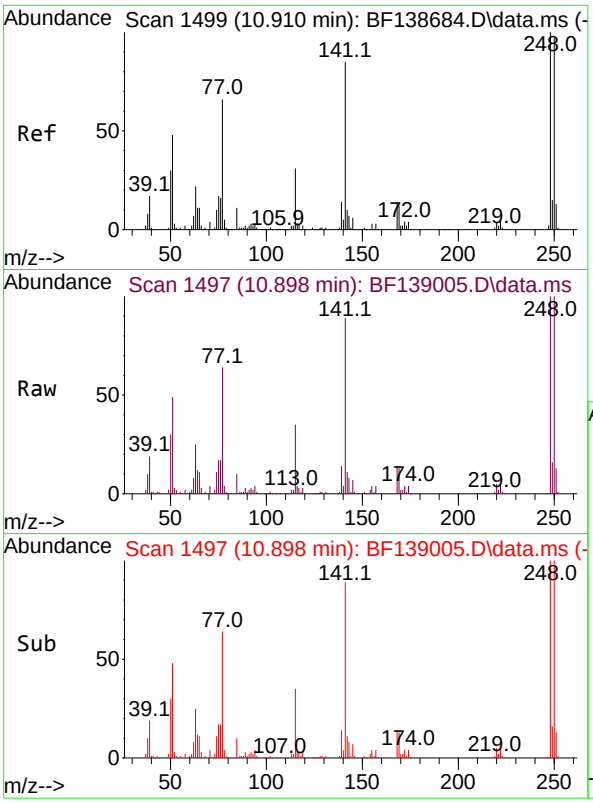




#66
n-Nitrosodiphenylamine
Concen: 48.032 ng
RT: 10.527 min Scan# 1434
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:169 Resp: 160865

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 67.9 | 53.0 | 79.6 |
| 167 | 37.6 | 29.0 | 43.6 |



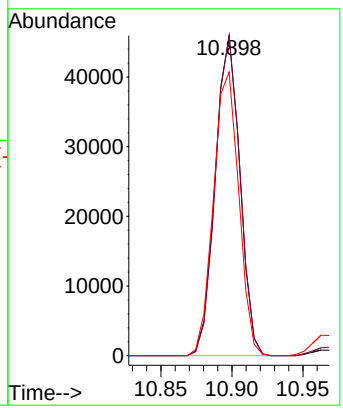


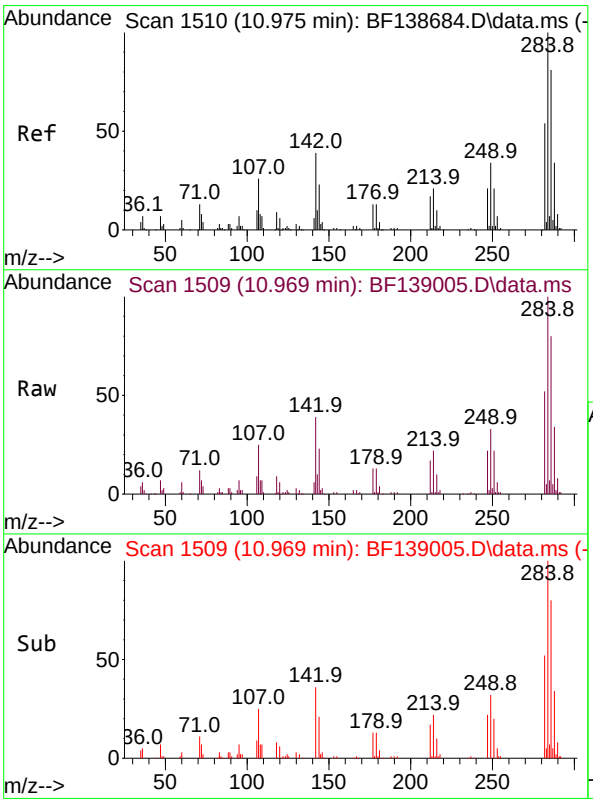

#67
4-Bromophenyl-phenylether
Concen: 47.657 ng
RT: 10.898 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MSD

Tgt Ion:248 Resp: 55284

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 100.0 | 77.7 | 116.5 |
| 141 | 88.7 | 68.0 | 102.0 |

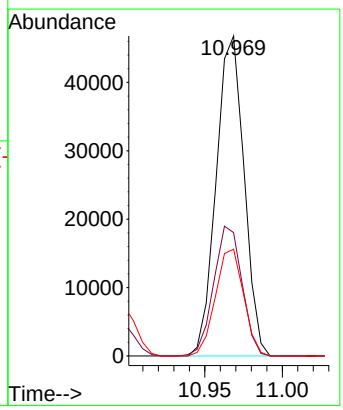


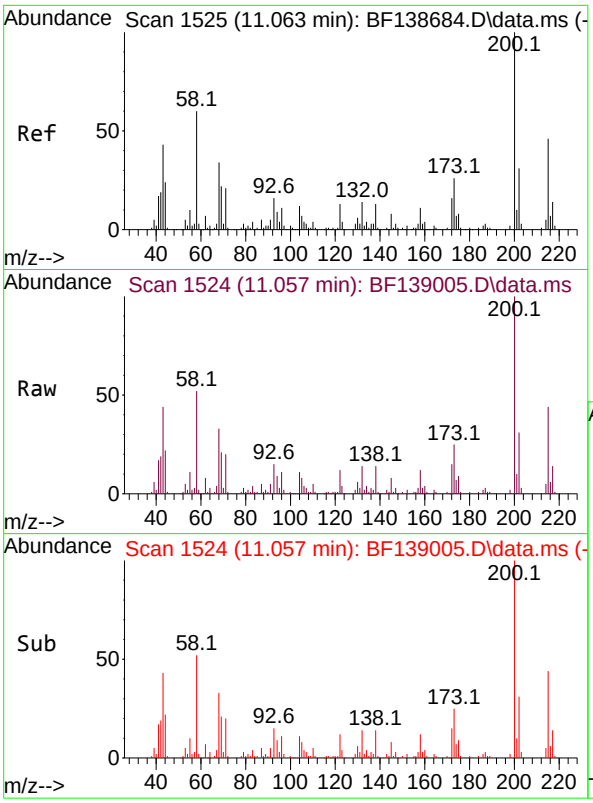




#68
Hexachlorobenzene
Concen: 48.941 ng
RT: 10.969 min Scan# 1509
Delta R.T. -0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:284 Resp: 58620

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 38.6 | 31.3 | 46.9 |
| 249 | 33.3 | 27.2 | 40.8 |



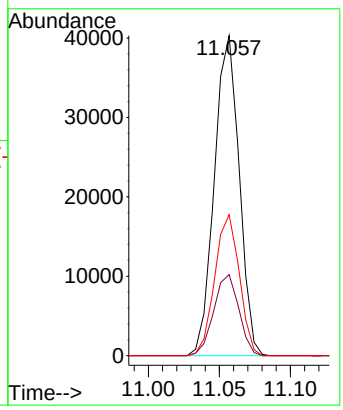


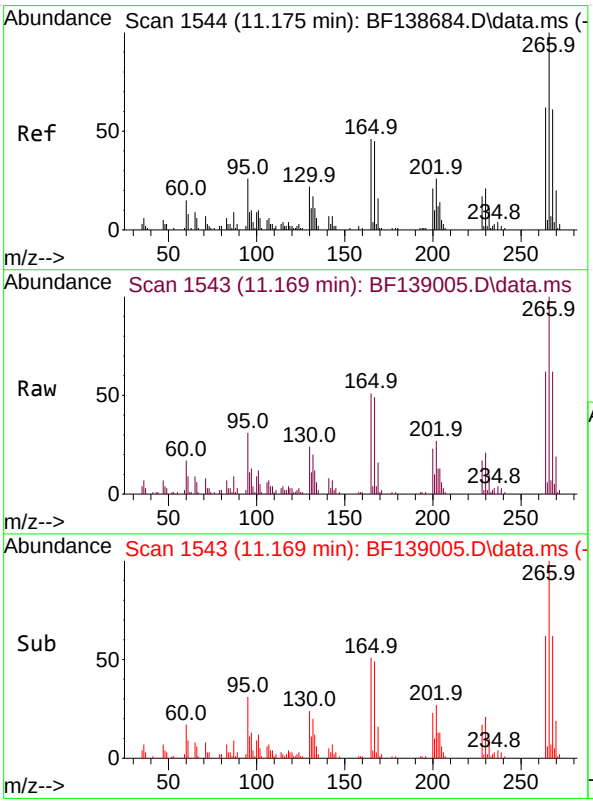

#69
Atrazine
Concen: 56.694 ng
RT: 11.057 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MSD

Tgt Ion:200 Resp: 48988

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 25.3 | 6.0 | 46.0 |
| 215 | 44.0 | 26.1 | 66.1 |

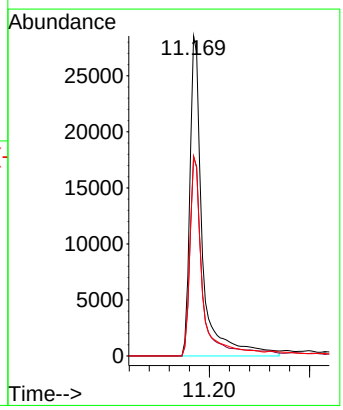


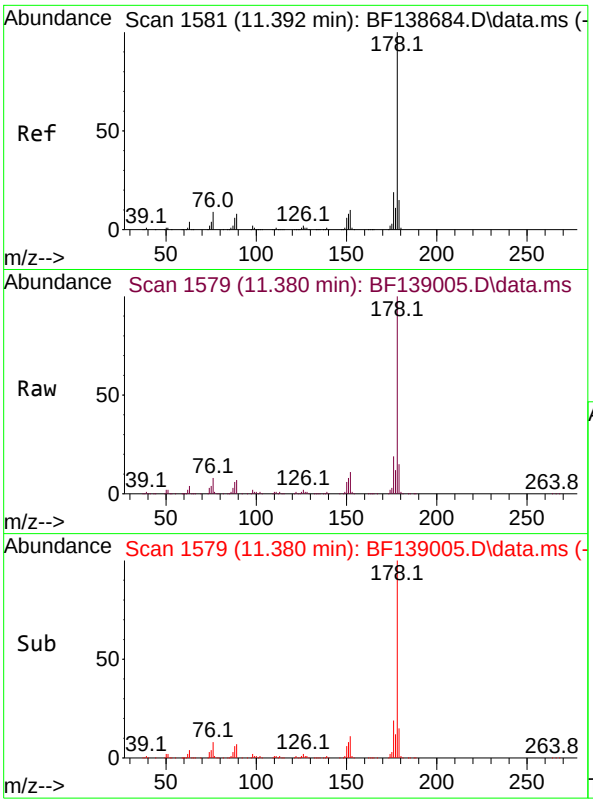




#70
Pentachlorophenol
Concen: 92.650 ng
RT: 11.169 min Scan# 1543
Delta R.T. -0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:266 Resp: 50020

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 268 | 62.3 | 49.2 | 73.8 |
| 264 | 62.4 | 49.8 | 74.6 |



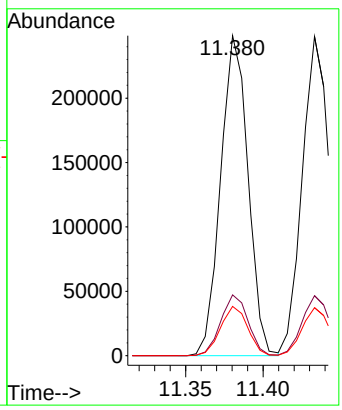


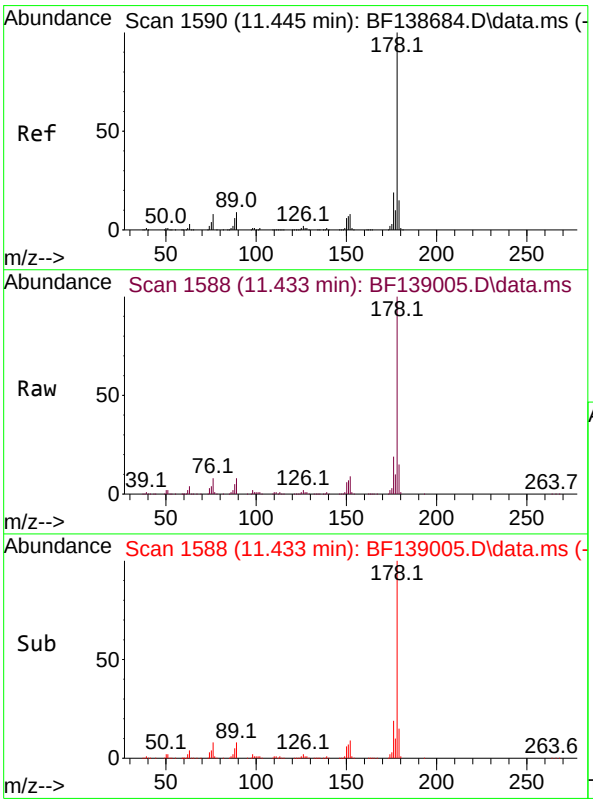

#71
Phenanthrene
Concen: 55.387 ng
RT: 11.380 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MSD

Tgt Ion:178 Resp: 305574

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.0 | 15.4 | 23.0 |
| 179 | 15.4 | 12.2 | 18.2 |

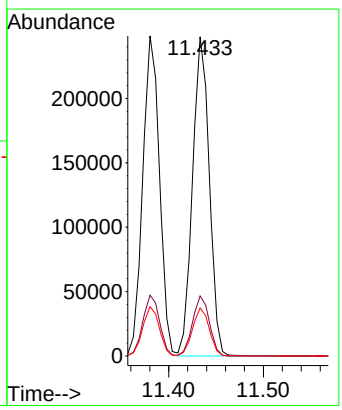


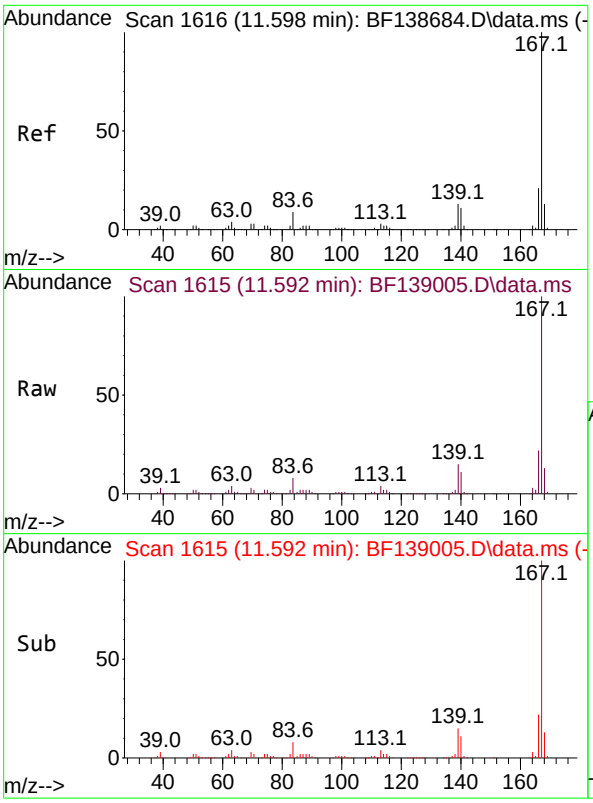




#72
Anthracene
Concen: 56.105 ng
RT: 11.433 min Scan# 1588
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:178 Resp: 304936

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.8 | 14.9 | 22.3 |
| 179 | 15.1 | 12.4 | 18.6 |



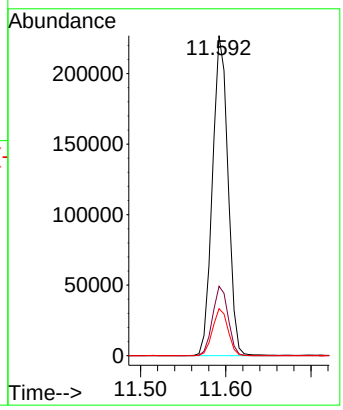


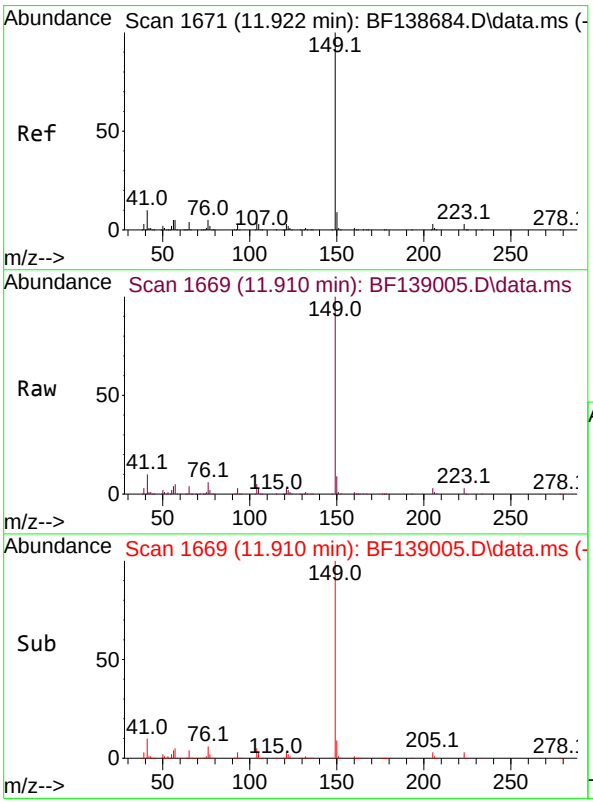

#73
Carbazole
Concen: 61.332 ng
RT: 11.592 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MSD

Tgt Ion:167 Resp: 287592

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 21.7 | 17.2 | 25.8 |
| 139 | 14.7 | 10.6 | 16.0 |

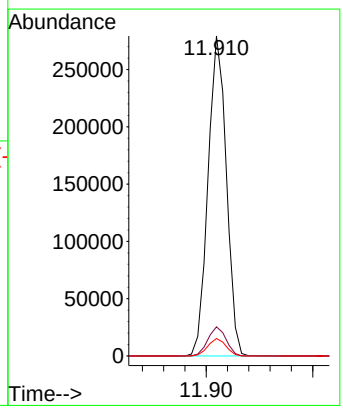


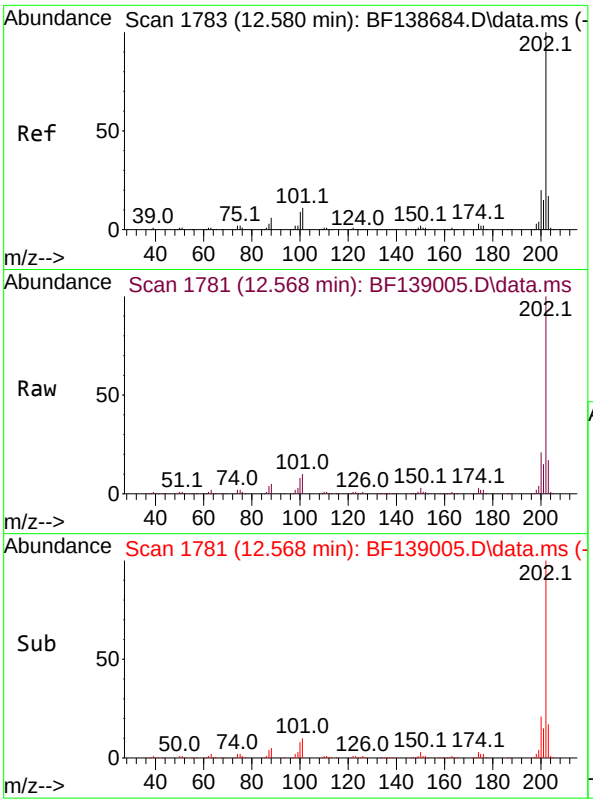




#74
Di-n-butylphthalate
Concen: 63.247 ng
RT: 11.910 min Scan# 1669
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:149 Resp: 333398

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 9.1 | 7.4 | 11.0 |
| 104 | 5.4 | 4.1 | 6.1 |



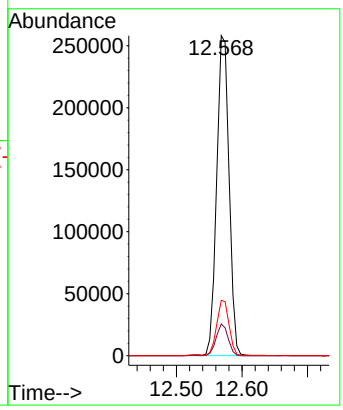


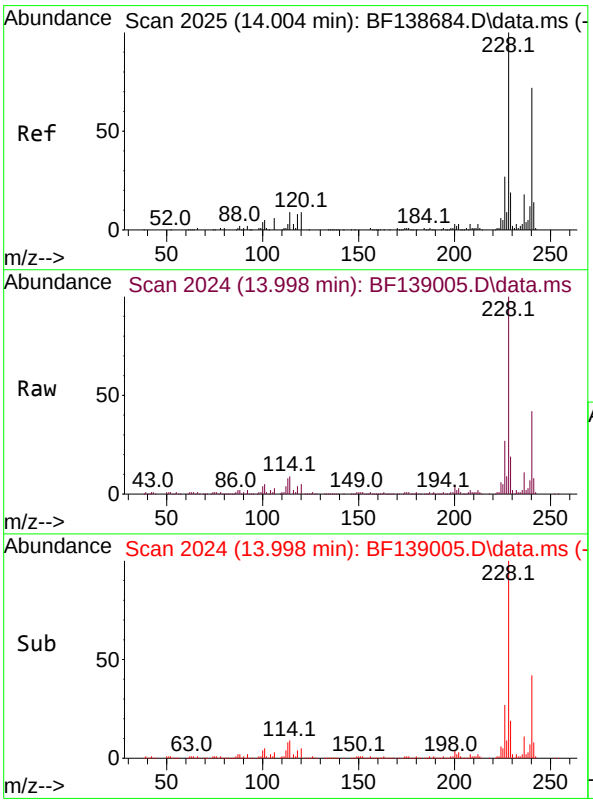

#75
Fluoranthene
Concen: 65.915 ng
RT: 12.568 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MSD

Tgt Ion:202 Resp: 339497

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 9.9 | 0.0 | 31.2 |
| 203 | 17.3 | 0.0 | 37.3 |

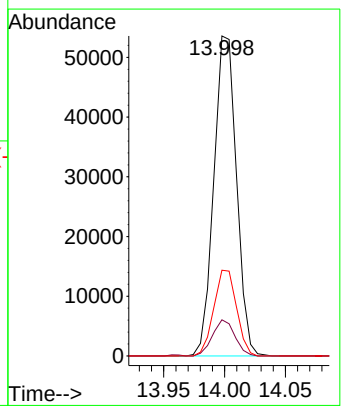


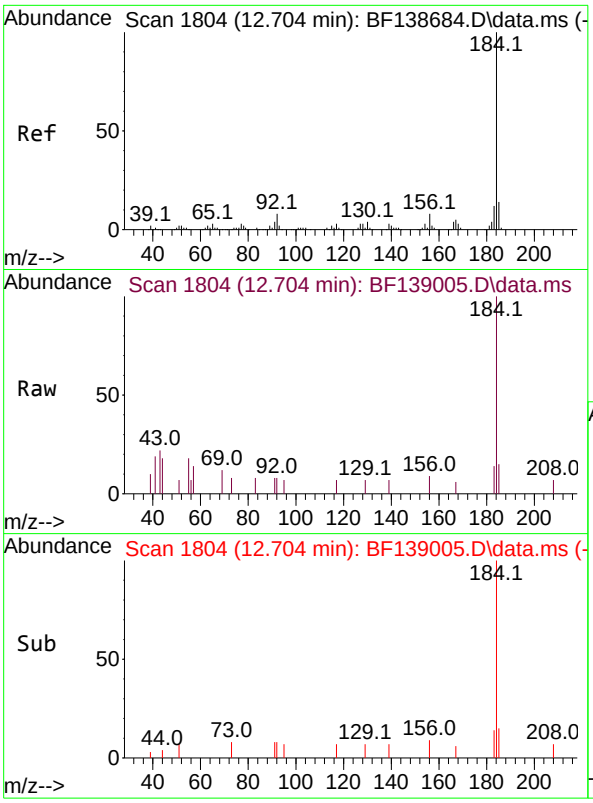




#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.998 min Scan# 2024
Delta R.T. -0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:240 Resp: 69421

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 11.3 | 10.2 | 15.4 |
| 236 | 26.8 | 19.8 | 29.8 |



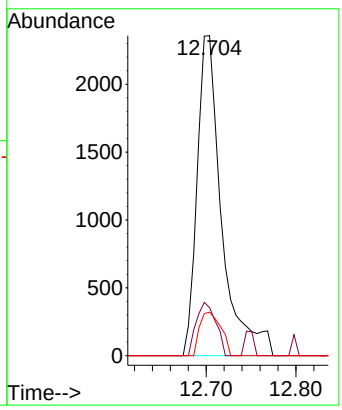


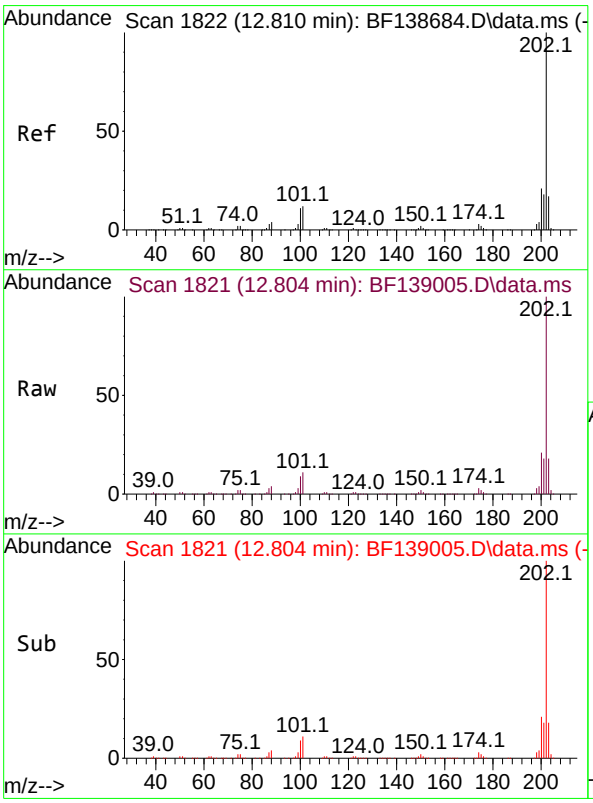

#77
Benzidine
Concen: 2.701 ng
RT: 12.704 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MSD

Tgt Ion:184 Resp: 4484

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 185 | 15.1 | 11.1 | 16.7 |
| 183 | 13.6 | 9.6 | 14.4 |

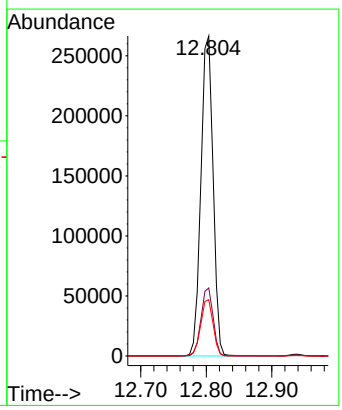


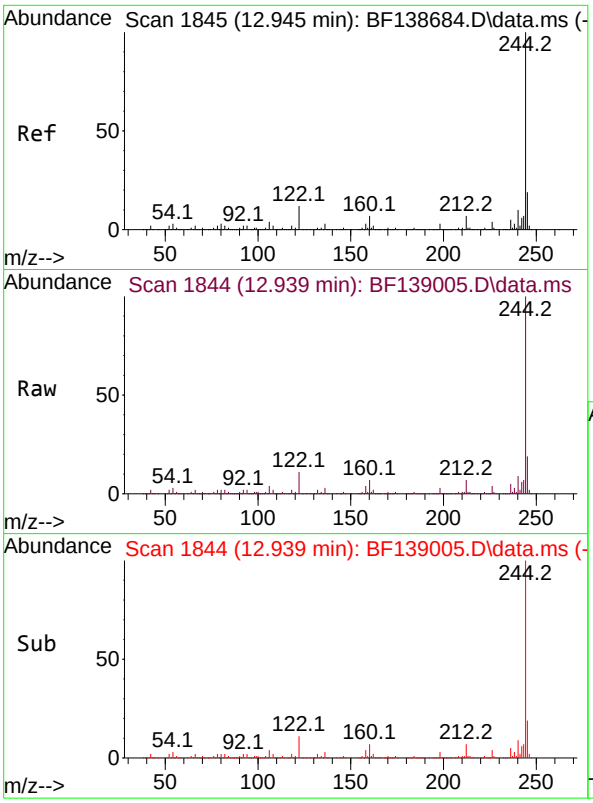




#78
Pyrene
Concen: 52.971 ng
RT: 12.804 min Scan# 1821
Delta R.T. -0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:202 Resp: 346232

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.3 | 16.8 | 25.2 |
| 203 | 17.6 | 13.8 | 20.6 |



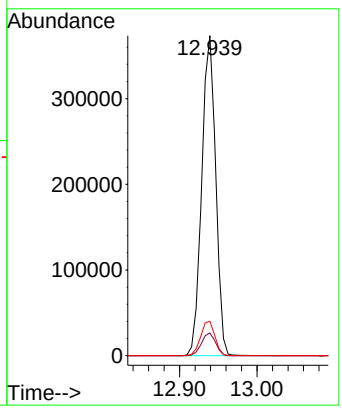


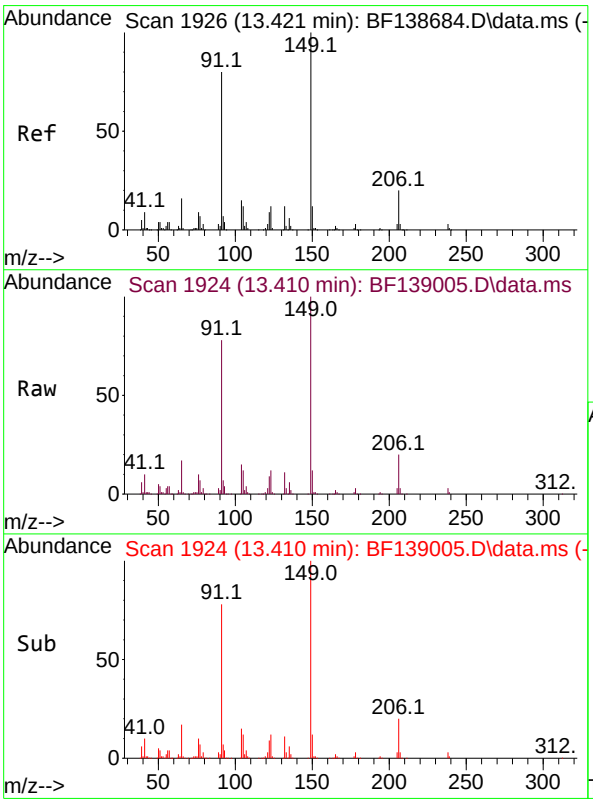

#79
Terphenyl-d14
Concen: 112.737 ng
RT: 12.939 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MSD

Tgt Ion:244 Resp: 467448

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.1 | 5.4 | 8.2 |
| 122 | 10.8 | 9.6 | 14.4 |

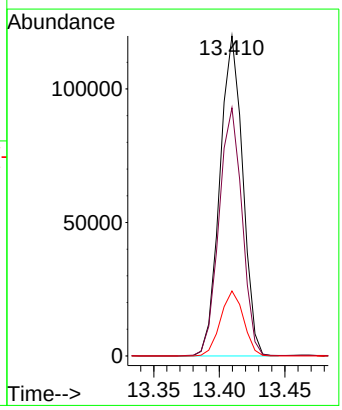


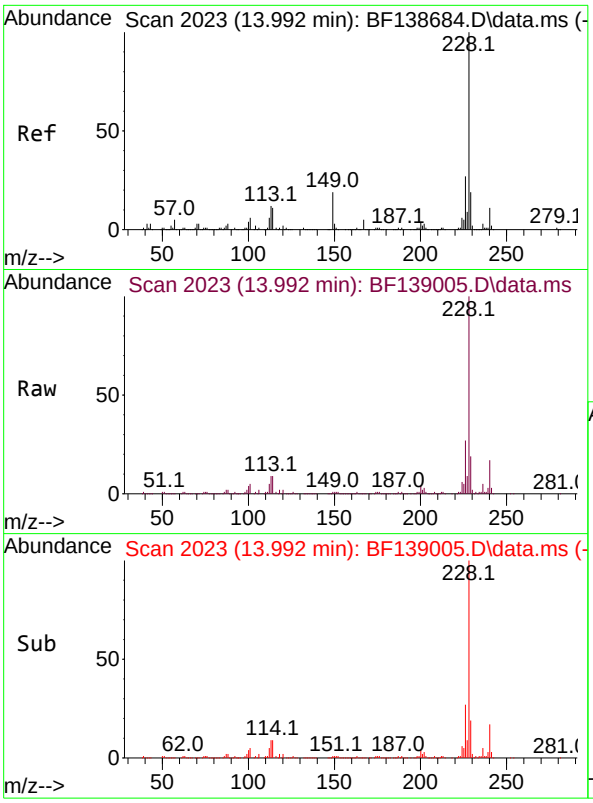




#80
Butylbenzylphthalate
Concen: 69.468 ng
RT: 13.410 min Scan# 1924
Delta R.T. -0.012 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:149 Resp: 145402

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 91 | 77.6 | 63.7 | 95.5 |
| 206 | 20.3 | 16.2 | 24.2 |



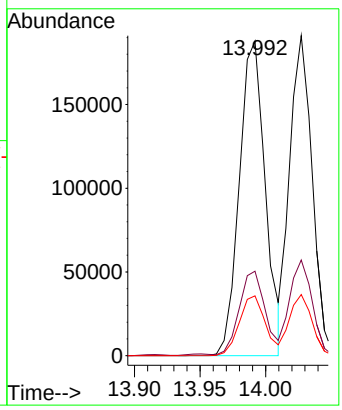


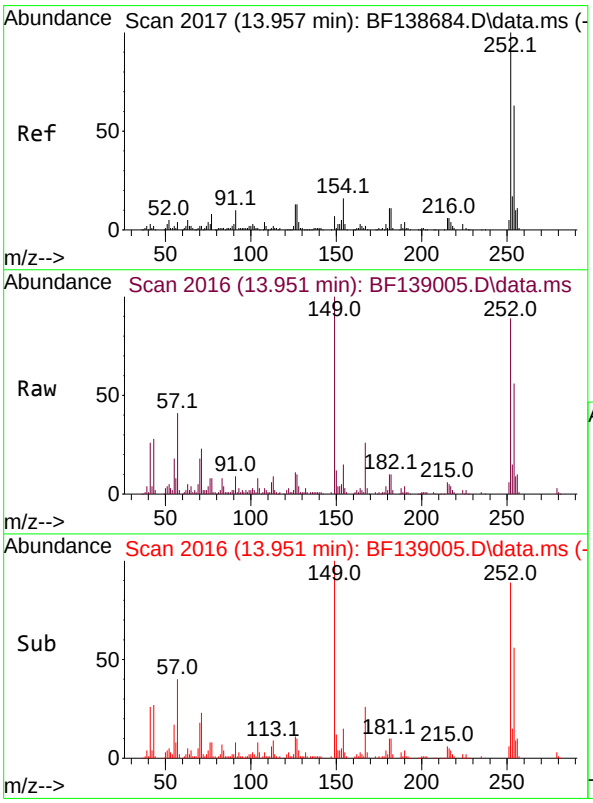

#81
Benzo(a)anthracene
Concen: 54.232 ng
RT: 13.992 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MSD

Tgt Ion:228 Resp: 259253

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 26.9 | 22.1 | 33.1 |
| 229 | 19.0 | 15.4 | 23.0 |

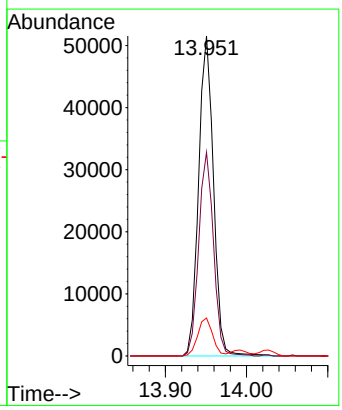


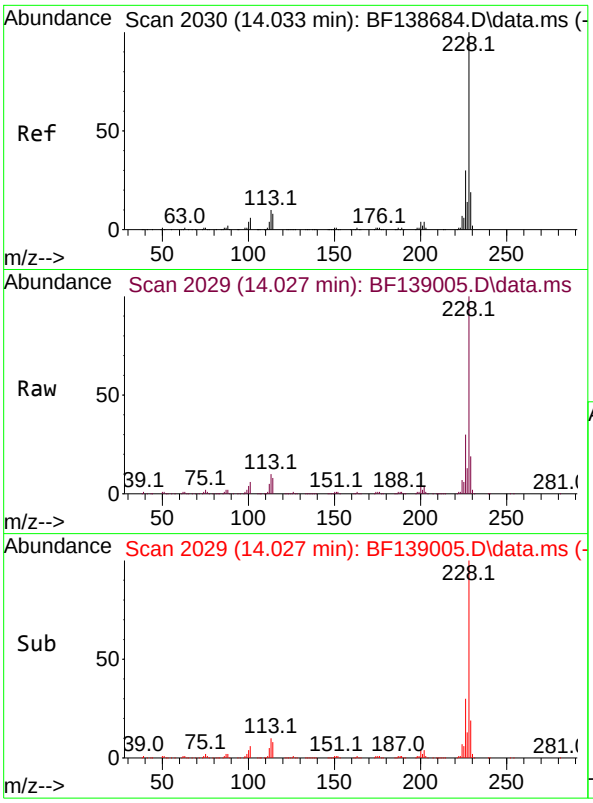




#82
3,3'-Dichlorobenzidine
Concen: 53.504 ng
RT: 13.951 min Scan# 2016
Delta R.T. -0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:252 Resp: 65454

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 63.7 | 50.8 | 76.2 |
| 126 | 11.9 | 10.2 | 15.2 |



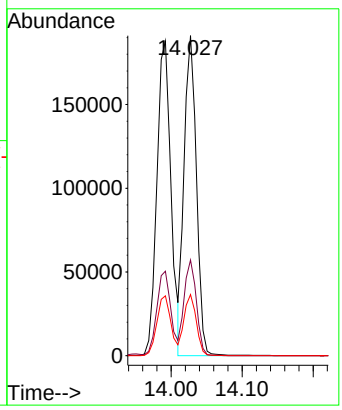


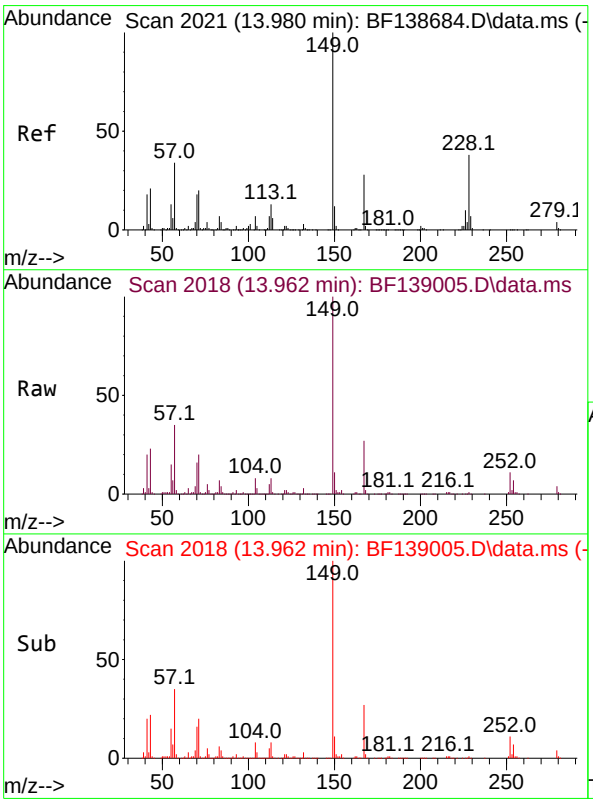

#83
Chrysene
Concen: 53.249 ng
RT: 14.027 min Scan# 2(
Delta R.T. -0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MSD

Tgt Ion:228 Resp: 229659

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.9 | 23.7 | 35.5 |
| 229 | 19.1 | 15.0 | 22.6 |

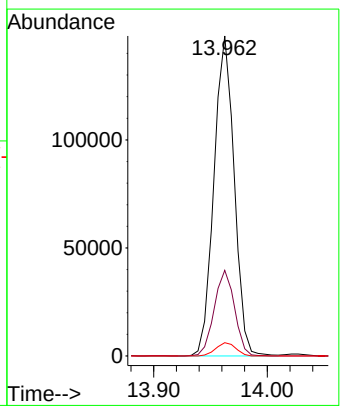


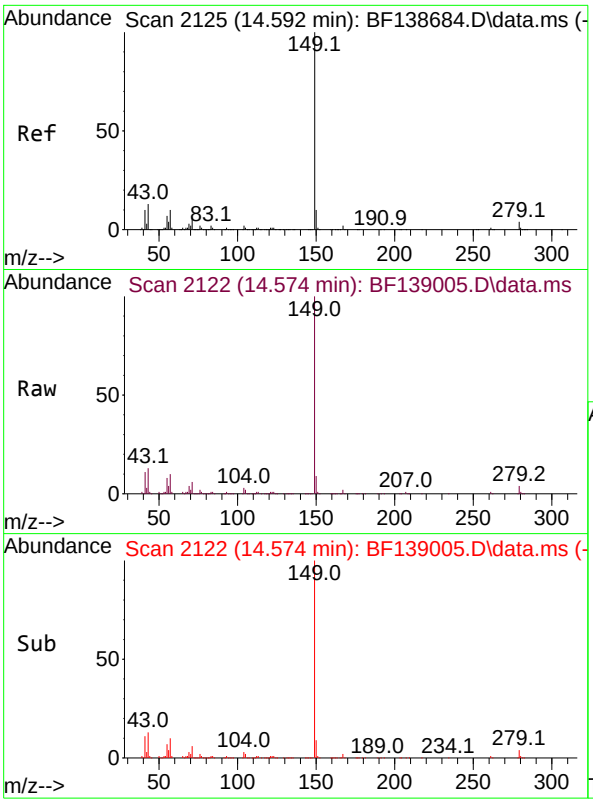




#84
Bis(2-ethylhexyl)phthalate
Concen: 59.985 ng
RT: 13.962 min Scan# 2018
Delta R.T. -0.018 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:149 Resp: 183851

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.8 | 22.2 | 33.4 |
| 279 | 4.2 | 3.4 | 5.0 |



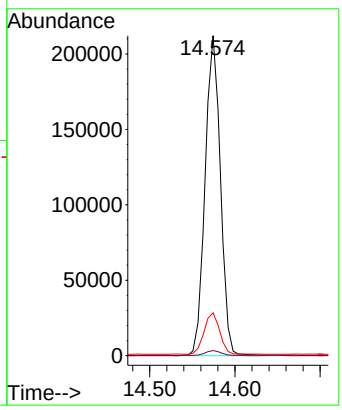


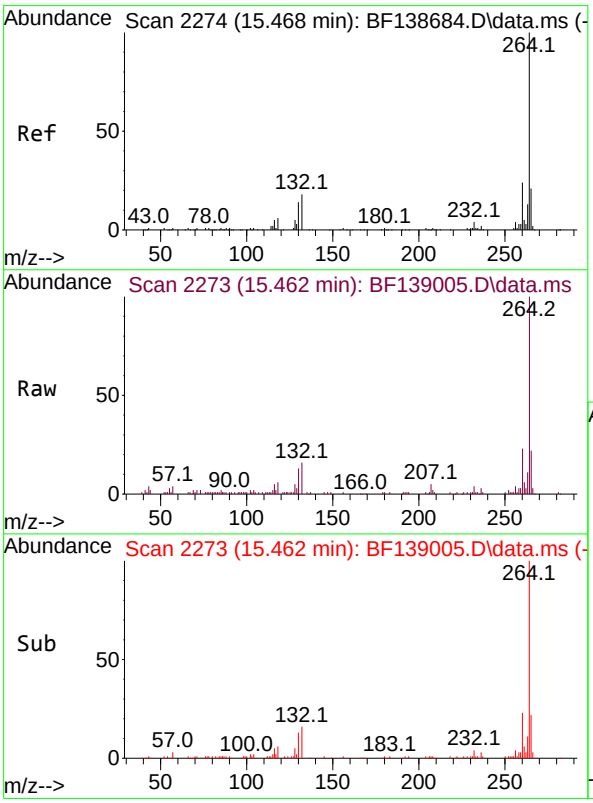

#85
Di-n-octyl phthalate
Concen: 46.794 ng
RT: 14.574 min Scan# 21
Delta R.T. -0.018 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MSD

Tgt Ion:149 Resp: 265356

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 1.8 | 1.4 | 2.0 |
| 43 | 13.0 | 10.4 | 15.6 |

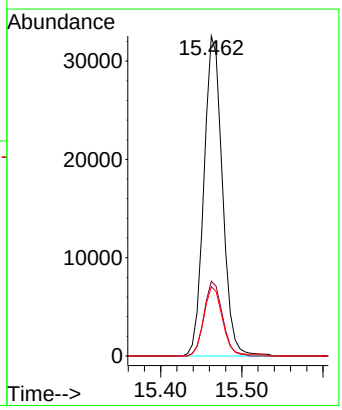


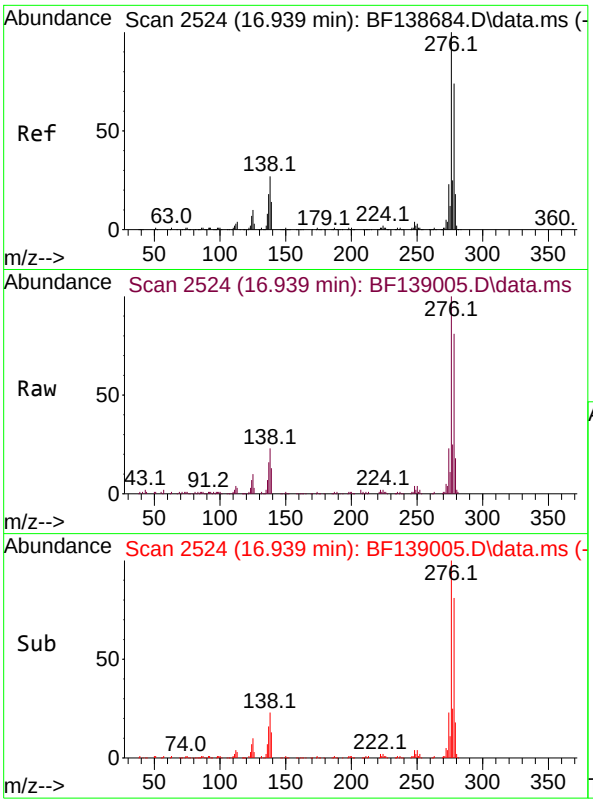




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.462 min Scan# 2273
Delta R.T. -0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:264 Resp: 51366

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.3 | 19.0 | 28.6 |
| 265 | 21.7 | 17.0 | 25.6 |



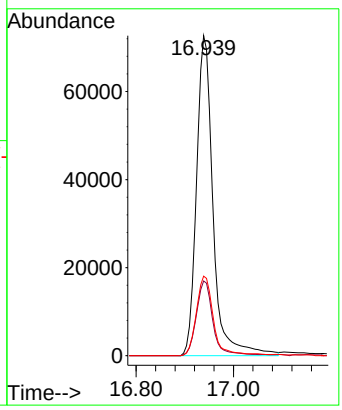


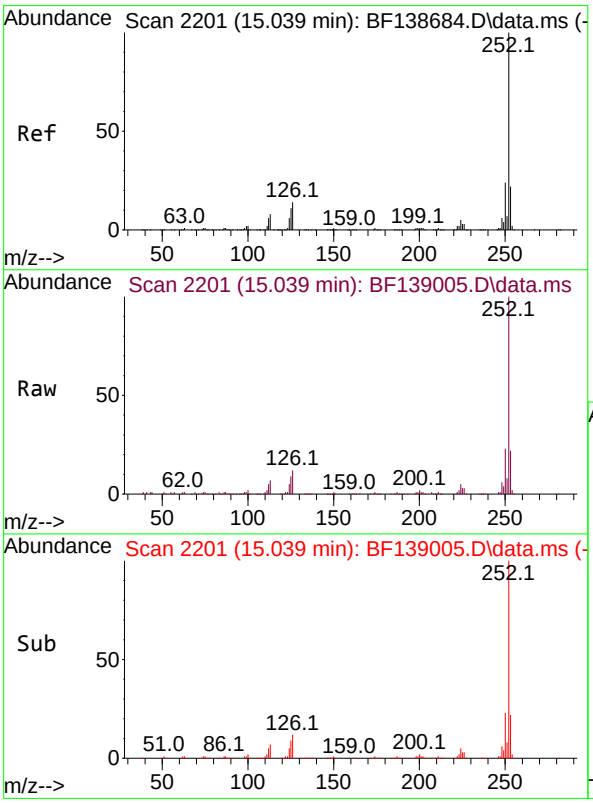

#87
Indeno(1,2,3-cd)pyrene
Concen: 46.742 ng
RT: 16.939 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MSD

Tgt Ion:276 Resp: 172061

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 23.2 | 21.8 | 32.8 |
| 277 | 25.2 | 20.6 | 30.8 |

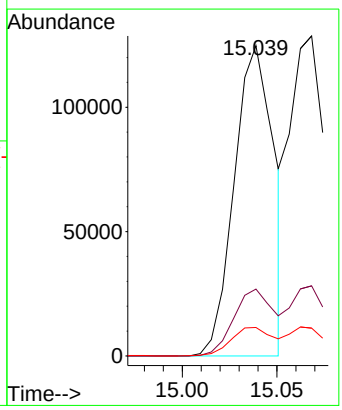


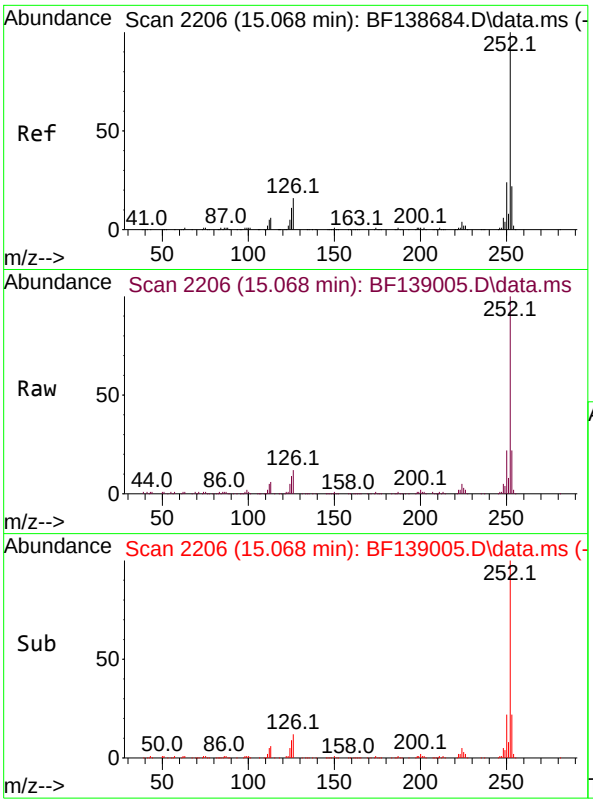




#88
Benzo(b)fluoranthene
Concen: 56.856 ng
RT: 15.039 min Scan# 2201
Delta R.T. -0.000 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:252 Resp: 181039

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.6 | 17.5 | 26.3 |
| 125 | 9.2 | 8.9 | 13.3 |



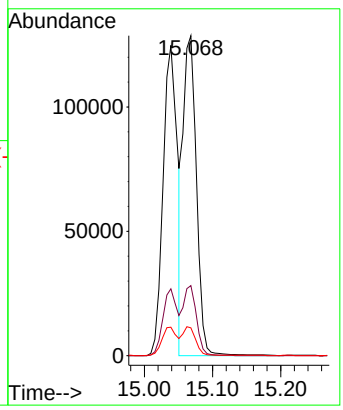


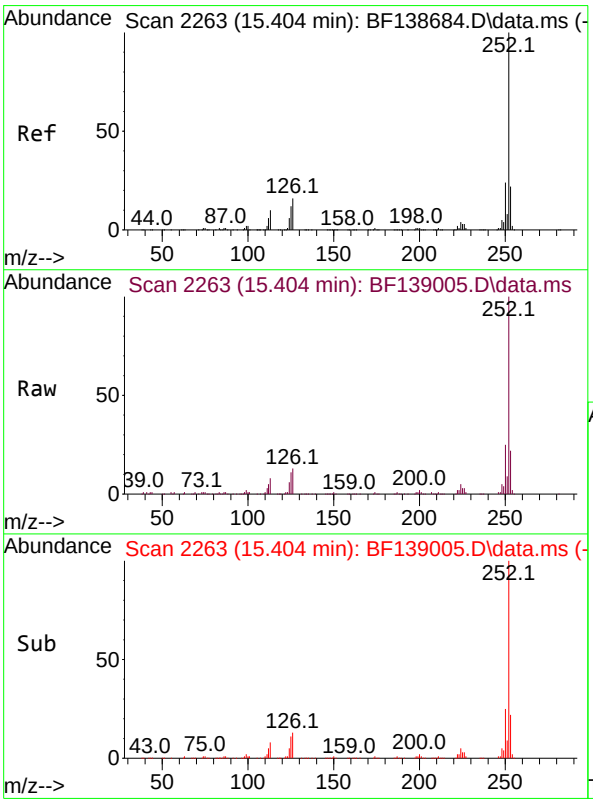

#89
Benzo(k)fluoranthene
Concen: 63.481 ng
RT: 15.068 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MSD

Tgt Ion:252 Resp: 175013

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.9 | 17.4 | 26.0 |
| 125 | 8.7 | 8.6 | 13.0 |

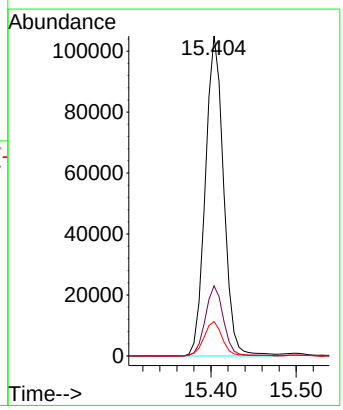


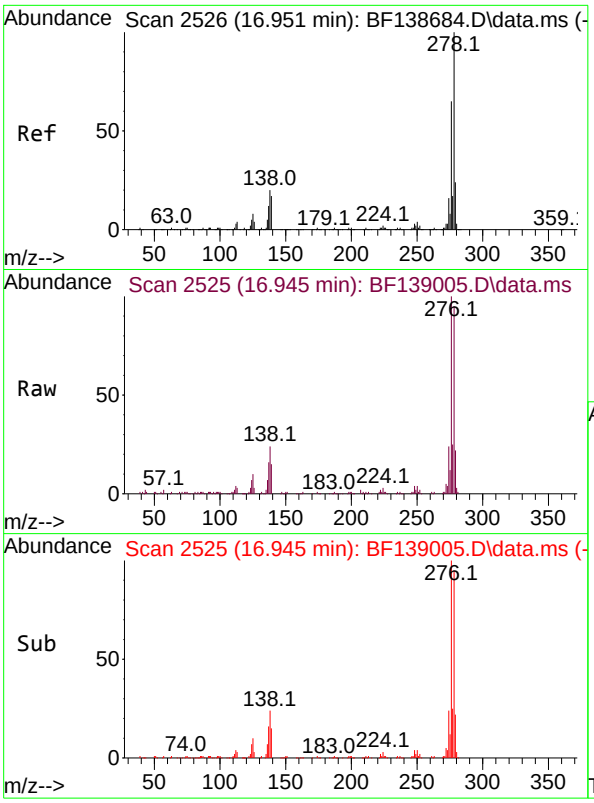




#90
Benzo(a)pyrene
Concen: 58.419 ng
RT: 15.404 min Scan# 2263
Delta R.T. -0.000 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:252 Resp: 156468

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.9 | 17.3 | 25.9 |
| 125 | 10.8 | 9.5 | 14.3 |



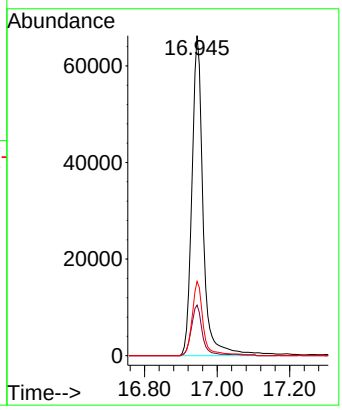


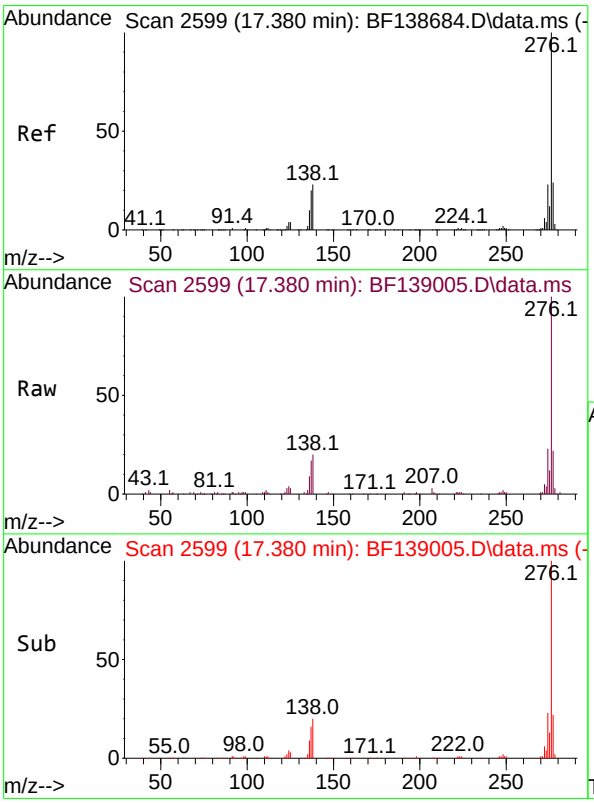

#91
Dibenzo(a,h)anthracene
Concen: 47.437 ng
RT: 16.945 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

**Instrument :**
BNA_F
**ClientSampleId :**
924-K1-WP0-0.25-080224MSD

Tgt Ion:278 Resp: 143340

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 15.8 | 14.0 | 21.0 |
| 279 | 23.2 | 19.0 | 28.4 |

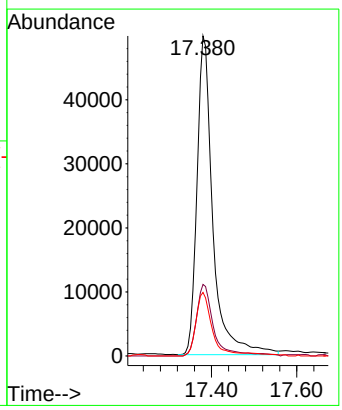



#92
Benzo(g,h,i)perylene
Concen: 40.933 ng
RT: 17.380 min Scan# 2599
Delta R.T. -0.000 min
Lab File: BF139005.D
Acq: 14 Aug 2024 20:47

Tgt Ion:276 Resp: 128350

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 22.3 | 19.0 | 28.4 |
| 138 | 19.8 | 18.5 | 27.7 |



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# Manual Integration Report

| Sequence: | bf073024 | Instrument | BNA_f |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| SSTDICC010 | BF138682.D | Benzoic acid | yogesh | 7/31/2024 6:39:36 AM | mohammad | 7/31/2024 8:08:34 AM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | BF080924 | Instrument | BNA_f |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| SSTDCCC040 | BF138879.D | 2,3,4,6-Tetrachlorophenol | yogesh | 8/10/2024 12:55:26 AM | mohammad | 8/12/2024 1:39:31 AM | Peak Integrated by Software |
| SSTDCCC040 | BF138879.D | Caprolactam | yogesh | 8/10/2024 12:55:26 AM | mohammad | 8/12/2024 1:39:31 AM | Peak Integrated by Software |
| PB162489BS | BF138886.D | Caprolactam | yogesh | 8/10/2024 12:55:31 AM | mohammad | 8/12/2024 1:39:31 AM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | BF081024 | Instrument | BNA_f |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| SSTDCCC040 | BF138901.D | Caprolactam | Jagrut | 8/12/2024 5:09:23 PM | mohammad | 8/13/2024 5:17:21 AM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | BF081424 | Instrument | BNA_f |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| SSTDCCC040 | BF138988.D | Benzoic acid | yogesh | 8/15/2024 12:55:27 AM | mohammad | 8/16/2024 3:02:17 AM | Peak Integrated by Software |
| SSTDCCC040 | BF138988.D | Caprolactam | yogesh | 8/15/2024 12:55:27 AM | mohammad | 8/16/2024 3:02:17 AM | Peak Integrated by Software |
| P3466-02MS | BF139004.D | Benzo(b)fluoranthene | Jagrut | 8/15/2024 10:25:32 AM | mohammad | 8/16/2024 3:02:17 AM | Peak Integrated by Software |

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Fax : 908 789 8922

**Instrument ID: BNA_F**

## Daily Analysis Runlog For Sequence/QCBatch ID # BF073024

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 7/31/2024 6:39:45 AM | | |
| Supervise By | mohammad | Supervise On | 7/31/2024 8:08:34 AM | | |
| SubDirectory | BF073024 | HP Acquire Method | BNA_F | HP Processing Method | bf073024 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6550,SP6551,SP6552,SP6553,SP6554,SP6555,SP6556,SP6557 |
| CCC | SP6553 |
| Internal Standard/PEM | S12036 10ul/1000ul sample |
| ICV/I.BLK | SP6559 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | DFTPP | BF138679.D | 30 Jul 2024 12:24 | RC/JU | Ok |
| 2 | SSTDICC2.5 | BF138680.D | 30 Jul 2024 12:54 | RC/JU | Ok |
| 3 | SSTDICC005 | BF138681.D | 30 Jul 2024 13:25 | RC/JU | Ok |
| 4 | SSTDICC010 | BF138682.D | 30 Jul 2024 13:56 | RC/JU | Ok,M |
| 5 | SSTDICC020 | BF138683.D | 30 Jul 2024 14:25 | RC/JU | Ok |
| 6 | SSTDICCC040 | BF138684.D | 30 Jul 2024 14:56 | RC/JU | Ok |
| 7 | SSTDICC050 | BF138685.D | 30 Jul 2024 15:27 | RC/JU | Ok |
| 8 | SSTDICC060 | BF138686.D | 30 Jul 2024 15:58 | RC/JU | Ok |
| 9 | SSTDICC080 | BF138687.D | 30 Jul 2024 16:29 | RC/JU | Ok |
| 10 | SSTDICV040 | BF138688.D | 30 Jul 2024 17:55 | RC/JU | Ok |
| 11 | PB162188BL | BF138689.D | 30 Jul 2024 18:26 | RC/JU | Ok |

M : Manual Integration

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Fax : 908 789 8922

**Instrument ID: BNA_F**

## Daily Analysis Runlog For Sequence/QCBatch ID # BF080924

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | yogesh | Review On | 8/10/2024 12:55:52 AM | | | | |
| Supervise By | mohammad | Supervise On | 8/12/2024 1:39:31 AM | | | | |
| SubDirectory | BF080924 | HP Acquire Method | BNA_F | | HP Processing Method | bf073024 | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6550,SP6551,SP6552,SP6553,SP6554,SP6555,SP6556,SP6557 |
| CCC | SP6553 |
| Internal Standard/PEM | S12039,10ul/1000ul sample |
| ICV/I.BLK | SP6559 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | DFTPP | BF138878.D | 09 Aug 2024 09:17 | RC/JU | Ok |
| 2 | SSTDCCC040 | BF138879.D | 09 Aug 2024 09:48 | RC/JU | Ok,M |
| 3 | PB162421BL | BF138880.D | 09 Aug 2024 10:19 | RC/JU | Ok |
| 4 | PB162358BL | BF138881.D | 09 Aug 2024 10:50 | RC/JU | Not Ok |
| 5 | PB162358BS | BF138882.D | 09 Aug 2024 11:21 | RC/JU | Ok,M |
| 6 | PB162423BL | BF138883.D | 09 Aug 2024 11:52 | RC/JU | Ok |
| 7 | PB162423BS | BF138884.D | 09 Aug 2024 12:23 | RC/JU | Ok,M |
| 8 | PB162489BL | BF138885.D | 09 Aug 2024 12:55 | RC/JU | Ok |
| 9 | PB162489BS | BF138886.D | 09 Aug 2024 13:25 | RC/JU | Ok,M |
| 10 | P3464-02 | BF138887.D | 09 Aug 2024 14:10 | RC/JU | Ok |
| 11 | P3468-01 | BF138888.D | 09 Aug 2024 14:59 | RC/JU | Ok |
| 12 | P3468-02 | BF138889.D | 09 Aug 2024 15:31 | RC/JU | Ok |
| 13 | P3469-01 | BF138890.D | 09 Aug 2024 16:02 | RC/JU | Ok |
| 14 | P3469-02 | BF138891.D | 09 Aug 2024 16:33 | RC/JU | Ok |
| 15 | P3460-01 | BF138892.D | 09 Aug 2024 17:04 | RC/JU | Ok |
| 16 | P3460-01MS | BF138893.D | 09 Aug 2024 17:35 | RC/JU | Ok,M |
| 17 | P3460-01MSD | BF138894.D | 09 Aug 2024 18:05 | RC/JU | Ok,M |
| 18 | P3507-01 | BF138895.D | 09 Aug 2024 18:35 | RC/JU | Ok,M |
| 19 | P3509-01 | BF138896.D | 09 Aug 2024 19:06 | RC/JU | Ok,M |
| 20 | P3509-01MS | BF138897.D | 09 Aug 2024 19:36 | RC/JU | Ok,M |
| 21 | P3509-01MSD | BF138898.D | 09 Aug 2024 20:06 | RC/JU | Ok,M |

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**Instrument ID: BNA_F**

## Daily Analysis Runlog For Sequence/QCBatch ID # BF080924

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | yogesh | Review On | 8/10/2024 12:55:52 AM | | | | |
| Supervise By | mohammad | Supervise On | 8/12/2024 1:39:31 AM | | | | |
| SubDirectory | BF080924 | HP Acquire Method | BNA_F | | HP Processing Method | bf073024 | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6550,SP6551,SP6552,SP6553,SP6554,SP6555,SP6556,SP6557 |
| CCC | SP6553 |
| Internal Standard/PEM | S12039,10ul/1000ul sample |
| ICV/I.BLK | SP6559 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | P3394-02 | BF138899.D | 09 Aug 2024 20:36 | RC/JU | ReRun |

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**Instrument ID: BNA_F**

## Daily Analysis Runlog For Sequence/QCBatch ID # BF081024

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Jagrut | Review On | 8/12/2024 5:10:00 PM | | | | |
| Supervise By | mohammad | Supervise On | 8/13/2024 5:17:21 AM | | | | |
| SubDirectory | BF081024 | HP Acquire Method | BNA_F | | HP Processing Method | bf073024 | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6550,SP6551,SP6552,SP6553,SP6554,SP6555,SP6556,SP6557 |
| CCC | SP6553 |
| Internal Standard/PEM | S12039,10ul/1000ul sample |
| ICV/I.BLK | SP6559 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | DFTPP | BF138900.D | 10 Aug 2024 10:12 | RC/JU | Ok |
| 2 | SSTDCCC040 | BF138901.D | 10 Aug 2024 10:41 | RC/JU | Ok,M |
| 3 | PB162577TB | BF138902.D | 10 Aug 2024 11:11 | RC/JU | Ok |
| 4 | P3479-03 | BF138903.D | 10 Aug 2024 11:46 | RC/JU | Ok |
| 5 | P3479-05 | BF138904.D | 10 Aug 2024 12:16 | RC/JU | Ok |
| 6 | P3479-01 | BF138905.D | 10 Aug 2024 12:46 | RC/JU | Ok |
| 7 | P3479-07 | BF138906.D | 10 Aug 2024 13:16 | RC/JU | Ok |
| 8 | P3464-02MS | BF138907.D | 10 Aug 2024 13:47 | RC/JU | Ok,M |
| 9 | P3464-02MSD | BF138908.D | 10 Aug 2024 14:17 | RC/JU | Ok,M |
| 10 | P3415-04MS | BF138909.D | 10 Aug 2024 14:48 | RC/JU | Ok |
| 11 | P3415-05MSD | BF138910.D | 10 Aug 2024 15:19 | RC/JU | Ok |
| 12 | P3476-01 | BF138911.D | 10 Aug 2024 15:49 | RC/JU | Ok |
| 13 | P3466-04 | BF138912.D | 10 Aug 2024 16:20 | RC/JU | Ok |
| 14 | P3466-05 | BF138913.D | 10 Aug 2024 16:51 | RC/JU | Ok |
| 15 | P3476-07 | BF138914.D | 10 Aug 2024 17:21 | RC/JU | ReRun |
| 16 | P3457-01 | BF138915.D | 10 Aug 2024 17:52 | RC/JU | Ok |
| 17 | P3457-02 | BF138916.D | 10 Aug 2024 18:22 | RC/JU | Ok |
| 18 | P3466-01 | BF138917.D | 10 Aug 2024 18:53 | RC/JU | Ok |
| 19 | P3466-02MS | BF138918.D | 10 Aug 2024 19:23 | RC/JU | Not Ok |
| 20 | P3466-03MSD | BF138919.D | 10 Aug 2024 19:54 | RC/JU | Not Ok |
| 21 | P3476-03 | BF138920.D | 10 Aug 2024 20:24 | RC/JU | Ok |

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**Instrument ID: BNA_F**

## Daily Analysis Runlog For Sequence/QCBatch ID # BF081024

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Jagrut | Review On | 8/12/2024 5:10:00 PM | | | | |
| Supervise By | mohammad | Supervise On | 8/13/2024 5:17:21 AM | | | | |
| SubDirectory | BF081024 | HP Acquire Method | BNA_F | | HP Processing Method | bf073024 | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6550,SP6551,SP6552,SP6553,SP6554,SP6555,SP6556,SP6557 |
| CCC | SP6553 |
| Internal Standard/PEM | S12039,10ul/1000ul sample |
| ICV/I.BLK | SP6559 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | P3476-05 | BF138921.D | 10 Aug 2024 20:54 | RC/JU | ReRun |
| 23 | P3467-01 | BF138922.D | 10 Aug 2024 21:25 | RC/JU | Ok |

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**Instrument ID: BNA_F**

## Daily Analysis Runlog For Sequence/QCBatch ID # BF081424

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Jagrut | Review On | 8/15/2024 10:26:10 AM | | | | |
| Supervise By | mohammad | Supervise On | 8/16/2024 3:02:17 AM | | | | |
| SubDirectory | BF081424 | HP Acquire Method | BNA_F | | HP Processing Method | bf073024 | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6550,SP6551,SP6552,SP6553,SP6554,SP6555,SP6556,SP6557 |
| CCC | SP6553 |
| Internal Standard/PEM | S12041,10ul/1000ul sample |
| ICV/I.BLK | SP6559 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | DFTPP | BF138987.D | 14 Aug 2024 11:33 | RC/JU | Ok |
| 2 | SSTDCCC040 | BF138988.D | 14 Aug 2024 12:03 | RC/JU | Ok,M |
| 3 | PB162577BL | BF138989.D | 14 Aug 2024 12:32 | RC/JU | Ok |
| 4 | PB162577BS | BF138990.D | 14 Aug 2024 13:02 | RC/JU | Ok,M |
| 5 | P3474-01 | BF138991.D | 14 Aug 2024 13:37 | RC/JU | Ok |
| 6 | P3474-10 | BF138992.D | 14 Aug 2024 14:08 | RC/JU | Ok |
| 7 | P3512-05 | BF138993.D | 14 Aug 2024 14:38 | RC/JU | Ok |
| 8 | P3512-06 | BF138994.D | 14 Aug 2024 15:09 | RC/JU | Ok |
| 9 | P3543-01 | BF138995.D | 14 Aug 2024 15:40 | RC/JU | Ok |
| 10 | P3548-01 | BF138996.D | 14 Aug 2024 16:10 | RC/JU | Ok |
| 11 | P3548-03 | BF138997.D | 14 Aug 2024 16:42 | RC/JU | Ok,M |
| 12 | P3548-06 | BF138998.D | 14 Aug 2024 17:12 | RC/JU | ReRun |
| 13 | P3548-12 | BF138999.D | 14 Aug 2024 17:43 | RC/JU | ReRun |
| 14 | P3548-09 | BF139000.D | 14 Aug 2024 18:14 | RC/JU | Ok |
| 15 | P3549-01 | BF139001.D | 14 Aug 2024 18:46 | RC/JU | Ok,M |
| 16 | P3476-07RE | BF139002.D | 14 Aug 2024 19:16 | RC/JU | Confirms |
| 17 | P3476-05RE | BF139003.D | 14 Aug 2024 19:46 | RC/JU | Confirms |
| 18 | P3466-02MS | BF139004.D | 14 Aug 2024 20:16 | RC/JU | Ok,M |
| 19 | P3466-03MSD | BF139005.D | 14 Aug 2024 20:47 | RC/JU | Ok |
| 20 | P3475-01 | BF139006.D | 14 Aug 2024 21:17 | RC/JU | ReRun |
| 21 | P3475-02 | BF139007.D | 14 Aug 2024 21:47 | RC/JU | Ok,M |

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**Instrument ID: BNA_F**

## Daily Analysis Runlog For Sequence/QCBatch ID # BF081424

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Jagrut | Review On | 8/15/2024 10:26:10 AM | | | | |
| Supervise By | mohammad | Supervise On | 8/16/2024 3:02:17 AM | | | | |
| SubDirectory | BF081424 | HP Acquire Method | BNA_F | | HP Processing Method | bf073024 | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6550,SP6551,SP6552,SP6553,SP6554,SP6555,SP6556,SP6557 |
| CCC | SP6553 |
| Internal Standard/PEM | S12041,10ul/1000ul sample |
| ICV/I.BLK | SP6559 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | P3475-03MS | BF139008.D | 14 Aug 2024 22:17 | RC/JU | Ok,M |
| 23 | P3475-04MSD | BF139009.D | 14 Aug 2024 22:47 | RC/JU | Ok,M |
| 24 | P3526-01 | BF139010.D | 14 Aug 2024 23:18 | RC/JU | ReRun |

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**Instrument ID:** BNA_F

## Daily Analysis Runlog For Sequence/QCBatch ID # BF073024

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 7/31/2024 6:39:45 AM | | |
| Supervise By | mohammad | Supervise On | 7/31/2024 8:08:34 AM | | |
| SubDirectory | BF073024 | HP Acquire Method | BNA_F | HP Processing Method | bf073024 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6550,SP6551,SP6552,SP6553,SP6554,SP6555,SP6556,SP6557 |
| CCC | SP6553 |
| Internal Standard/PEM | S12036 10ul/1000ul sample |
| ICV/I.BLK | SP6559 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | DFTPP | DFTPP | BF138679.D | 30 Jul 2024 12:24 | | RC/JU | Ok |
| 2 | SSTDICC2.5 | SSTDICC2.5 | BF138680.D | 30 Jul 2024 12:54 | | RC/JU | Ok |
| 3 | SSTDICC005 | SSTDICC005 | BF138681.D | 30 Jul 2024 13:25 | Compound#32,41,54,56,65,70 removed from 5 ppm | RC/JU | Ok |
| 4 | SSTDICC010 | SSTDICC010 | BF138682.D | 30 Jul 2024 13:56 | | RC/JU | Ok,M |
| 5 | SSTDICC020 | SSTDICC020 | BF138683.D | 30 Jul 2024 14:25 | Comopund#41 Kept on LR | RC/JU | Ok |
| 6 | SSTDICCC040 | SSTDICCC040 | BF138684.D | 30 Jul 2024 14:56 | The calibration is good for 8270 DOD & 625.1 | RC/JU | Ok |
| 7 | SSTDICC050 | SSTDICC050 | BF138685.D | 30 Jul 2024 15:27 | | RC/JU | Ok |
| 8 | SSTDICC060 | SSTDICC060 | BF138686.D | 30 Jul 2024 15:58 | Compound#9 removed from 60 ppm | RC/JU | Ok |
| 9 | SSTDICC080 | SSTDICC080 | BF138687.D | 30 Jul 2024 16:29 | Compound#9,77 removed from 80 ppm | RC/JU | Ok |
| 10 | SSTDICV040 | ICVBF073024 | BF138688.D | 30 Jul 2024 17:55 | | RC/JU | Ok |
| 11 | PB162188BL | PB162188BL | BF138689.D | 30 Jul 2024 18:26 | | RC/JU | Ok |

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**Instrument ID:** BNA_F

## Daily Analysis Runlog For Sequence/QCBatch ID # BF080924

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 8/10/2024 12:55:52 AM | | |
| Supervise By | mohammad | Supervise On | 8/12/2024 1:39:31 AM | | |
| SubDirectory | BF080924 | HP Acquire Method | BNA_F | HP Processing Method | bf073024 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6550,SP6551,SP6552,SP6553,SP6554,SP6555,SP6556,SP6557 |
| CCC | SP6553 |
| Internal Standard/PEM | S12039,10ul/1000ul sample |
| ICV/I.BLK | SP6559 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | DFTPP | DFTPP | BF138878.D | 09 Aug 2024 09:17 | | RC/JU | Ok |
| 2 | SSTDCCC040 | SSTDCCC040 | BF138879.D | 09 Aug 2024 09:48 | | RC/JU | Ok,M |
| 3 | PB162421BL | PB162421BL | BF138880.D | 09 Aug 2024 10:19 | | RC/JU | Ok |
| 4 | PB162358BL | PB162358BL | BF138881.D | 09 Aug 2024 10:50 | Surrogate Fail | RC/JU | Not Ok |
| 5 | PB162358BS | PB162358BS | BF138882.D | 09 Aug 2024 11:21 | | RC/JU | Ok,M |
| 6 | PB162423BL | PB162423BL | BF138883.D | 09 Aug 2024 11:52 | | RC/JU | Ok |
| 7 | PB162423BS | PB162423BS | BF138884.D | 09 Aug 2024 12:23 | | RC/JU | Ok,M |
| 8 | PB162489BL | PB162489BL | BF138885.D | 09 Aug 2024 12:55 | | RC/JU | Ok |
| 9 | PB162489BS | PB162489BS | BF138886.D | 09 Aug 2024 13:25 | | RC/JU | Ok,M |
| 10 | P3464-02 | TOPSOIL | BF138887.D | 09 Aug 2024 14:10 | | RC/JU | Ok |
| 11 | P3468-01 | IDW-S1-01 | BF138888.D | 09 Aug 2024 14:59 | | RC/JU | Ok |
| 12 | P3468-02 | MLS-15-682-697 | BF138889.D | 09 Aug 2024 15:31 | | RC/JU | Ok |
| 13 | P3469-01 | MLS-15-513-528 | BF138890.D | 09 Aug 2024 16:02 | | RC/JU | Ok |
| 14 | P3469-02 | MLS-15-625-640 | BF138891.D | 09 Aug 2024 16:33 | | RC/JU | Ok |
| 15 | P3460-01 | 72-11929 | BF138892.D | 09 Aug 2024 17:04 | | RC/JU | Ok |
| 16 | P3460-01MS | 72-11929MS | BF138893.D | 09 Aug 2024 17:35 | | RC/JU | Ok,M |
| 17 | P3460-01MSD | 72-11929MSD | BF138894.D | 09 Aug 2024 18:05 | | RC/JU | Ok,M |
| 18 | P3507-01 | EO-03-080724 | BF138895.D | 09 Aug 2024 18:35 | Internal Standard Fail | RC/JU | Ok,M |

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**Instrument ID:** BNA_F

## Daily Analysis Runlog For Sequence/QCBatch ID # BF080924

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 8/10/2024 12:55:52 AM | | |
| Supervise By | mohammad | Supervise On | 8/12/2024 1:39:31 AM | | |
| SubDirectory | BF080924 | HP Acquire Method | BNA_F | HP Processing Method | bf073024 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6550,SP6551,SP6552,SP6553,SP6554,SP6555,SP6556,SP6557 |
| CCC | SP6553 |
| Internal Standard/PEM | S12039,10ul/1000ul sample |
| ICV/I.BLK | SP6559 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | P3509-01 | OR-02-080724 | BF138896.D | 09 Aug 2024 19:06 | Internal Standard Fail | RC/JU | Ok,M |
| 20 | P3509-01MS | OR-02-080724MS | BF138897.D | 09 Aug 2024 19:36 | Internal Standard Fail | RC/JU | Ok,M |
| 21 | P3509-01MSD | OR-02-080724MSD | BF138898.D | 09 Aug 2024 20:06 | Internal Standard Fail | RC/JU | Ok,M |
| 22 | P3394-02 | B-105-SB02 | BF138899.D | 09 Aug 2024 20:36 | Internal Standard Fail | RC/JU | ReRun |

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**Instrument ID:** BNA_F

## Daily Analysis Runlog For Sequence/QCBatch ID # BF081024

| | | | | | |
|---|---|---|---|---|---|
| Review By | Jagrut | Review On | 8/12/2024 5:10:00 PM | | |
| Supervise By | mohammad | Supervise On | 8/13/2024 5:17:21 AM | | |
| SubDirectory | BF081024 | HP Acquire Method | BNA_F | HP Processing Method | bf073024 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6550,SP6551,SP6552,SP6553,SP6554,SP6555,SP6556,SP6557 |
| CCC | SP6553 |
| Internal Standard/PEM | S12039,10ul/1000ul sample |
| ICV/I.BLK | SP6559 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | DFTPP | DFTPP | BF138900.D | 10 Aug 2024 10:12 | | RC/JU | Ok |
| 2 | SSTDCCC040 | SSTDCCC040 | BF138901.D | 10 Aug 2024 10:41 | | RC/JU | Ok,M |
| 3 | PB162577TB | PB162577TB | BF138902.D | 10 Aug 2024 11:11 | | RC/JU | Ok |
| 4 | P3479-03 | TS09 | BF138903.D | 10 Aug 2024 11:46 | | RC/JU | Ok |
| 5 | P3479-05 | TS10 | BF138904.D | 10 Aug 2024 12:16 | | RC/JU | Ok |
| 6 | P3479-01 | TS08 | BF138905.D | 10 Aug 2024 12:46 | | RC/JU | Ok |
| 7 | P3479-07 | TS11 | BF138906.D | 10 Aug 2024 13:16 | | RC/JU | Ok |
| 8 | P3464-02MS | TOPSOILMS | BF138907.D | 10 Aug 2024 13:47 | Internal Standard Fail | RC/JU | Ok,M |
| 9 | P3464-02MSD | TOPSOILMSD | BF138908.D | 10 Aug 2024 14:17 | Internal Standard Fail, | RC/JU | Ok,M |
| 10 | P3415-04MS | MLS-15-70-85MS | BF138909.D | 10 Aug 2024 14:48 | | RC/JU | Ok |
| 11 | P3415-05MSD | MLS-15-70-85MSD | BF138910.D | 10 Aug 2024 15:19 | | RC/JU | Ok |
| 12 | P3476-01 | MUL04 | BF138911.D | 10 Aug 2024 15:49 | | RC/JU | Ok |
| 13 | P3466-04 | 932-K1-WP0-0.25-0802 | BF138912.D | 10 Aug 2024 16:20 | | RC/JU | Ok |
| 14 | P3466-05 | 919-J-WP0-0.25-08022 | BF138913.D | 10 Aug 2024 16:51 | | RC/JU | Ok |
| 15 | P3476-07 | MUL07 | BF138914.D | 10 Aug 2024 17:21 | Internal Standard Fail | RC/JU | ReRun |
| 16 | P3457-01 | 924-K1-WS-080224 | BF138915.D | 10 Aug 2024 17:52 | | RC/JU | Ok |
| 17 | P3457-02 | 932-K1-WS-080224 | BF138916.D | 10 Aug 2024 18:22 | | RC/JU | Ok |
| 18 | P3466-01 | 924-K1-WP0-0.25-0802 | BF138917.D | 10 Aug 2024 18:53 | | RC/JU | Ok |

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**Instrument ID:** BNA_F

## Daily Analysis Runlog For Sequence/QCBatch ID # BF081024

| | | | | | |
|---|---|---|---|---|---|
| Review By | Jagrut | Review On | 8/12/2024 5:10:00 PM | | |
| Supervise By | mohammad | Supervise On | 8/13/2024 5:17:21 AM | | |
| SubDirectory | BF081024 | HP Acquire Method | BNA_F | HP Processing Method | bf073024 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6550,SP6551,SP6552,SP6553,SP6554,SP6555,SP6556,SP6557 |
| CCC | SP6553 |
| Internal Standard/PEM | S12039,10ul/1000ul sample |
| ICV/I.BLK | SP6559 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | P3466-02MS | 924-K1-WP0-0.25-0802 | BF138918.D | 10 Aug 2024 19:23 | MSD not ok | RC/JU | Not Ok |
| 20 | P3466-03MSD | 924-K1-WP0-0.25-0802 | BF138919.D | 10 Aug 2024 19:54 | Internal Standard Fail | RC/JU | Not Ok |
| 21 | P3476-03 | MUL05 | BF138920.D | 10 Aug 2024 20:24 | | RC/JU | Ok |
| 22 | P3476-05 | MUL06 | BF138921.D | 10 Aug 2024 20:54 | Internal Standard Fail | RC/JU | ReRun |
| 23 | P3467-01 | 919-J-WS-080224 | BF138922.D | 10 Aug 2024 21:25 | | RC/JU | Ok |

M : Manual Integration

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**Instrument ID:** BNA_F

## Daily Analysis Runlog For Sequence/QCBatch ID # BF081424

| | | | | | |
|---|---|---|---|---|---|
| Review By | Jagrut | Review On | 8/15/2024 10:26:10 AM | | |
| Supervise By | mohammad | Supervise On | 8/16/2024 3:02:17 AM | | |
| SubDirectory | BF081424 | HP Acquire Method | BNA_F | HP Processing Method | bf073024 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6550,SP6551,SP6552,SP6553,SP6554,SP6555,SP6556,SP6557 |
| CCC | SP6553 |
| Internal Standard/PEM | S12041,10ul/1000ul sample |
| ICV/I.BLK | SP6559 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | DFTPP | DFTPP | BF138987.D | 14 Aug 2024 11:33 | | RC/JU | Ok |
| 2 | SSTDCCC040 | SSTDCCC040 | BF138988.D | 14 Aug 2024 12:03 | | RC/JU | Ok,M |
| 3 | PB162577BL | PB162577BL | BF138989.D | 14 Aug 2024 12:32 | | RC/JU | Ok |
| 4 | PB162577BS | PB162577BS | BF138990.D | 14 Aug 2024 13:02 | | RC/JU | Ok,M |
| 5 | P3474-01 | WC-A1-COMP | BF138991.D | 14 Aug 2024 13:37 | | RC/JU | Ok |
| 6 | P3474-10 | WC-B2-COMP | BF138992.D | 14 Aug 2024 14:08 | | RC/JU | Ok |
| 7 | P3512-05 | 931-K1-SD-0.5-1.0-080 | BF138993.D | 14 Aug 2024 14:38 | | RC/JU | Ok |
| 8 | P3512-06 | 931-K1-SD-0.5-1.0-080 | BF138994.D | 14 Aug 2024 15:09 | | RC/JU | Ok |
| 9 | P3543-01 | ARS20-0019 | BF138995.D | 14 Aug 2024 15:40 | Surrogate Fail | RC/JU | Ok |
| 10 | P3548-01 | 72-12017-72-11934 | BF138996.D | 14 Aug 2024 16:10 | | RC/JU | Ok |
| 11 | P3548-03 | RBR200036 | BF138997.D | 14 Aug 2024 16:42 | | RC/JU | Ok,M |
| 12 | P3548-06 | 343 | BF138998.D | 14 Aug 2024 17:12 | Internal standard fail | RC/JU | ReRun |
| 13 | P3548-12 | IN-SITU-SOIL | BF138999.D | 14 Aug 2024 17:43 | Internal standard fail | RC/JU | ReRun |
| 14 | P3548-09 | 289 | BF139000.D | 14 Aug 2024 18:14 | | RC/JU | Ok |
| 15 | P3549-01 | SU-04-080924 | BF139001.D | 14 Aug 2024 18:46 | Internal standard fail | RC/JU | Ok,M |
| 16 | P3476-07RE | MUL07RE | BF139002.D | 14 Aug 2024 19:16 | Internal Standard Fail | RC/JU | Confirms |
| 17 | P3476-05RE | MUL06RE | BF139003.D | 14 Aug 2024 19:46 | Fax is already given | RC/JU | Confirms |
| 18 | P3466-02MS | 924-K1-WP0-0.25-0802 | BF139004.D | 14 Aug 2024 20:16 | | RC/JU | Ok,M |

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**Instrument ID:** BNA_F

## Daily Analysis Runlog For Sequence/QCBatch ID # BF081424

| | | | | | |
|---|---|---|---|---|---|
| Review By | Jagrut | Review On | 8/15/2024 10:26:10 AM | | |
| Supervise By | mohammad | Supervise On | 8/16/2024 3:02:17 AM | | |
| SubDirectory | BF081424 | HP Acquire Method | BNA_F | HP Processing Method | bf073024 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6573 |
| Initial Calibration Stds | SP6550,SP6551,SP6552,SP6553,SP6554,SP6555,SP6556,SP6557 |
| CCC | SP6553 |
| Internal Standard/PEM | S12041,10ul/1000ul sample |
| ICV/I.BLK | SP6559 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | P3466-03MSD | 924-K1-WP0-0.25-0802 | BF139005.D | 14 Aug 2024 20:47 | | RC/JU | Ok |
| 20 | P3475-01 | S-866-N-S0-0-0.5-0805 | BF139006.D | 14 Aug 2024 21:17 | Internal Standard Fail | RC/JU | ReRun |
| 21 | P3475-02 | S-866-N-S0-1.0-1.5-080 | BF139007.D | 14 Aug 2024 21:47 | Internal Standard Fail | RC/JU | Ok,M |
| 22 | P3475-03MS | S-866-N-S0-1.0-1.5-080 | BF139008.D | 14 Aug 2024 22:17 | Internal Standard Fail, | RC/JU | Ok,M |
| 23 | P3475-04MSD | S-866-N-S0-1.0-1.5-080 | BF139009.D | 14 Aug 2024 22:47 | Internal Standard Fail, | RC/JU | Ok,M |
| 24 | P3526-01 | SP-1-COMP | BF139010.D | 14 Aug 2024 23:18 | Internal Standard Fail | RC/JU | ReRun |

M : Manual Integration

Alliance TECHNICAL GROUP

**EXTRACTION LOGPAGE**

PB162489

**SOP ID:** M3510C,3580A-Extraction SVOC-20

**Clean Up SOP #:** N/A

**Matrix :** Water

**Weigh By:** N/A

**Balance check:** N/A

**Balance ID:** N/A

**pH Strip Lot#:** E3574

**Extraction By:** RP

**Filter By:** RS

**pH Meter ID:** N/A

**Hood ID:** 4,6,7

**Extraction Start Date :** 08/05/2024

**Extraction Start Time :** 08:25

**Extraction End Date :** 08/05/2024

**Extraction End Time :** 15:45

**Concentration By:** EH

**Supervisor By :** rajesh

**Extraction Method:** ☑ Seperatory Funne ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

| Standared Name | MLS USED | Concentration ug/mL | STD REF. # FROM LOG |
|---|---|---|---|
| Spike Sol 1 | 1.0ML | 50/100 PPM | SP6525 |
| Surrogate | 1.0ML | 100/150 PPM | SP6524 |
| N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A |

| Chemical Used | ML/SAMPLE USED | Lot Number |
|---|---|---|
| Methylene Chloride | N/A | E3786 |
| Baked Na2SO4 | N/A | EP2519 |
| 10N NaoH | N/A | EP2514 |
| H2SO4 1:1 | N/A | EP2499 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |

**Extraction Conformance/Non-Conformance Comments:**

1.5 ML Vial Lot#2210673.p H Adjusted<2 with1:1 H2SO4&>11 with 10 N NaOH. P3466,3467,3468,3469 Added in batch at10:45.

**KD Bath ID:** Water bath -01,02

**KD Bath Temperature:** 60 °C

**Envap ID:** NEVAP-02

**Envap Temperature:** 40 °C

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 08/05/24 | RP (Ext. Lab) | PLC/SVOC |
| 15:50 | **Preparation Group** | **Analysis Group** |

Alliance TECHNICAL GROUP

**EXTRACTION LOGPAGE**

**PrepBatch ID : PB162489**

**Analytical Method:** M3510C,3580A-Extraction SVOC-20

**Concentration Date:** 08/05/2024

| Sample ID | Client Sample ID | Test | g / mL | PH | Surr/Spike By: | | Final Vol.(mL) | JarID | Comments | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | AddedBy | VerifiedBy | | | | |
| PB162489BL | SBLK489 | SVOC-TCL BNA -20 | 1000 | 6 | RUPESH | rajesh | 1 | | | SEP-01 |
| PB162489BS | SLCS489 | SVOC-TCL BNA -20 | 1000 | 6 | RUPESH | rajesh | 1 | | | 2 |
| P3457-01 | 924-KI-WS-080224 | SVOCMS Group6 | 970 | 6 | RUPESH | rajesh | 1 | F | | 3 |
| P3457-02 | 932-KI-WS-080224 | SVOCMS Group6 | 970 | 6 | RUPESH | rajesh | 1 | F | | 4 |
| P3458-02 | EB-70-150 | SVOC-TCL BNA -20 | 970 | 6 | RUPESH | rajesh | 1 | D | | 5 |
| P3458-03 | MLS-15-224-239 | SVOC-TCL BNA -20 | 970 | 6 | RUPESH | rajesh | 1 | D | | 6 |
| P3458-04 | MLS-15-257-272 | SVOC-TCL BNA -20 | 1000 | 6 | RUPESH | rajesh | 1 | D | | 7 |
| P3459-01 | EB-224-375 | SVOC-TCL BNA -20 | 990 | 6 | RUPESH | rajesh | 1 | A | | 8 |
| P3459-02 | MLS-15-360-375 | SVOC-TCL BNA -20 | 990 | 6 | RUPESH | rajesh | 1 | A | | 9 |
| P3459-03 | MLS-15-383-398 | SVOC-TCL BNA -20 | 990 | 6 | RUPESH | rajesh | 1 | A | | 10 |
| P3466-01 | 924-K1-WPO-0.25-080224 | SVOCMS Group6 | 940 | 6 | RUPESH | rajesh | 1 | C | | 11 |
| P3466-02 | P3466-01MS | SVOCMS Group6 | 980 | 6 | RUPESH | rajesh | 1 | C | | 12 |
| P3466-03 | P3466-01MSD | SVOCMS Group6 | 950 | 6 | RUPESH | rajesh | 1 | C | | 13 |
| P3466-04 | 932-K1-WPO-0.25-080224 | SVOCMS Group6 | 920 | 6 | RUPESH | rajesh | 1 | C | | 14 |
| P3466-05 | 919-J-WPO-0.25-080224 | SVOCMS Group6 | 900 | 6 | RUPESH | rajesh | 1 | C | | 15 |
| P3467-01 | 919-J-WS-080224 | SVOCMS Group6 | 950 | 6 | RUPESH | rajesh | 1 | E | | 16 |
| P3468-02 | MLS-15-682-697 | SVOC-TCL BNA -20 | 1000 | 6 | RUPESH | rajesh | 1 | A | | 17 |
| P3469-01 | MLS-15-513-528 | SVOC-TCL BNA -20 | 1000 | 6 | RUPESH | rajesh | 1 | D | | 18 |
| P3469-02 | MLS-15-625-640 | SVOC-TCL BNA -20 | 1000 | 6 | RUPESH | rajesh | 1 | D | | S |

* **Extracts relinquished on the same date as received.**

9/5/24

16250 8:25

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** P3457 **WorkList ID :** 182345 **Department :** Extraction **Date :** 08-05-2024 08:15:17

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| P3457-01 | 924-KI-WS-080224 | Water | SVOCMS Group6 | Cool 4 deg C | JACO05 | J21 | 08/02/2024 | 8270E |
| P3457-02 | 932-KI-WS-080224 | Water | SVOCMS Group6 | Cool 4 deg C | JACO05 | J21 | 08/02/2024 | 8270E |
| P3458-02 | EB-70-150 | Water | SVOC-TCL BNA -20 | Cool 4 deg C | TECH05 | D31 | 07/31/2024 | 8270E |
| P3458-03 | MLS-15-224-239 | Water | SVOC-TCL BNA -20 | Cool 4 deg C | TECH05 | D31 | 08/01/2024 | 8270E |
| P3458-04 | MLS-15-257-272 | Water | SVOC-TCL BNA -20 | Cool 4 deg C | TECH05 | D31 | 08/01/2024 | 8270E |
| P3459-01 | EB-224-375 | Water | SVOC-TCL BNA -20 | Cool 4 deg C | TECH05 | N31 | 08/01/2024 | 8270E |
| P3459-02 | MLS-15-360-375 | Water | SVOC-TCL BNA -20 | Cool 4 deg C | TECH05 | N31 | 08/01/2024 | 8270E |
| P3459-03 | MLS-15-383-398 | Water | SVOC-TCL BNA -20 | Cool 4 deg C | TECH05 | N31 | 08/02/2024 | 8270E |

**Date/Time** 08/05/24 8:20
**Raw Sample Received by:** KP (Sent temp)
**Raw Sample Relinquished by:** JM (SM)

**Date/Time** 08/05/24 8:55
**Raw Sample Received by:** JM (SM)
**Raw Sample Relinquished by:** KP (Sent temp)

16459
10:45

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** P3459S **WorkList ID :** 182371 **Department :** Extraction **Date :** 08-05-2024 10:45:39

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| P3466-01 | 924-K1-WPO-0.25-080224 | Water | SVOCMS Group6 | Cool 4 deg C | JACO05 | D31 | 08/02/2024 | 8270E |
| P3466-02 | P3466-01MS | Water | SVOCMS Group6 | Cool 4 deg C | JACO05 | D31 | 08/02/2024 | 8270E |
| P3466-03 | P3466-01MSD | Water | SVOCMS Group6 | Cool 4 deg C | JACO05 | D31 | 08/02/2024 | 8270E |
| P3466-04 | 932-K1-WPO-0.25-080224 | Water | SVOCMS Group6 | Cool 4 deg C | JACO05 | D31 | 08/02/2024 | 8270E |
| P3466-05 | 919-J-WPO-0.25-080224 | Water | SVOCMS Group6 | Cool 4 deg C | JACO05 | D31 | 08/02/2024 | 8270E |
| P3467-01 | 919-J-WS-080224 | Water | SVOCMS Group6 | Cool 4 deg C | JACO05 | D21 | 08/02/2024 | 8270E |
| P3468-02 | MLS-15-682-697 | Water | SVOC-TCL BNA -20 | Cool 4 deg C | TECH05 | D21 | 08/02/2024 | 8270E |
| P3469-01 | MLS-15-513-528 | Water | SVOC-TCL BNA -20 | Cool 4 deg C | TECH05 | D21 | 08/02/2024 | 8270E |
| P3469-02 | MLS-15-625-640 | Water | SVOC-TCL BNA -20 | Cool 4 deg C | TECH05 | D21 | 08/02/2024 | 8270E |

**Date/Time** 08/05/24 10:45
**Raw Sample Received by:** [signature]
**Raw Sample Relinquished by:** _____

**Date/Time** 08/05/24 11:10
**Raw Sample Received by:** _____
**Raw Sample Relinquished by:** [signature]

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# Prep Standard - Chemical Standard Summary

**Order ID :** P3457

**Test :** SVOCMS Group6

**Prepbatch ID :** PB162489,

**Sequence ID/Qc Batch ID:** BF080624,BF080924,BF081024,BF081424,

**Standard ID :**
EP2499,EP2514,EP2519,SP6524,SP6525,SP6549,SP6550,SP6551,SP6552,SP6553,SP6554,SP6555,SP6556,SP6557,SP6558,SP6559,SP6573,

**Chemical ID :**
10ul/1000ul sample,E3551,E3657,E3744,E3746,E3753,E3768,E3786,M5037,S10102,S10247,S10398,S10591,S10972,S10973,S10974,S10975,S10976,S10977,S10996,S10997,S10998,S10999,S11000,S11001,S11002,S11003,S11012,S11092,S11096,S11102,S11136,S11148,S11434,S11546,S11548,S11554,S11557,S11560,S11563,S11564,S11565,S11566,S11762,S11763,S11764,S11765,S11766,S11898,S11899,S11900,S11901,S11902,S11903,S11904,S11905,S11906,S12033,S12038 10ul/1000ul sample,S12039,S12041,S12076,S12088,S12089,S12090,S12091,S12092,S12093,S12094,S12095,S12096,S12097,S12112,S12117,S9675,W2606,W3112,

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# Extractions STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 314 | 1.1 H2SO4 SOLN | EP2499 | 06/17/2024 | 10/24/2024 | Rajesh Parikh | None | None | RUPESHKUMAR SHAH 06/17/2024 |

**FROM** 1000.00000ml of M5037 + 1000.00000ml of W2606 = Final Quantity: 2000.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1874 | 10 N SODIUM HYDROXIDE SOLN | EP2514 | 07/17/2024 | 01/17/2025 | Rajesh Parikh | None | None | RUPESHKUMAR SHAH 07/17/2024 |

**FROM** 1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 ml

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# Extractions STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3923 | Baked Sodium Sulfate | EP2519 | 08/02/2024 | 01/03/2025 | Rajesh Parikh | Extraction_SCALE_2 (EX-SC-2) | None | RUPESHKUMAR SHAH 08/02/2024 |

**FROM** 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 19 | 8270/CLP Surrogate Solution, 100 PPM BN/150 PPM ACID | SP6524 | 05/31/2024 | 11/29/2024 | Jagrut Upadhyay | None | None | Yogesh Patel 06/13/2024 |

**FROM** 1930.00000ml of E3744 + 2.90000ml of S11003 + 3.00000ml of S10977 + 5.30000ml of S10996 + 5.30000ml of S10997 + 5.30000ml of S10998 + 5.30000ml of S10999 + 5.30000ml of S11000 + 5.30000ml of S11001 + 5.30000ml of S11002 + 5.40000ml of S10972 + 5.40000ml of S10973 + 5.40000ml of S10974 + 5.40000ml of S10975 + 5.40000ml of S10976 = Final Quantity: 2000.000 ml

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# SVOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 171 | 8270/625 Spike Solution, 50/100 PPM | SP6525 | 06/05/2024 | 08/29/2024 | Rahul Chavli | None | None | Yogesh Patel 06/13/2024 |

**FROM** 0.20000ml of S11902 + 0.20000ml of S12117 + 0.40000ml of S10398 + 0.40000ml of S10591 + 0.40000ml of S11012 + 0.40000ml of S11136 + 0.40000ml of S11901 + 0.40000ml of S9675 + 0.50000ml of S12096 + 0.70000ml of S12089 + 0.80000ml of S11546 + 0.80000ml of S11566 + 0.90000ml of S11557 + 0.90000ml of S11762 + 0.90000ml of S12088 + 1.10000ml of S11564 + 1.20000ml of S11548 + 1.20000ml of S11554 + 1.20000ml of S11563 + 1.20000ml of S11903 + 1.20000ml of S11905 + 1.20000ml of S12094 + 1.30000ml of S11565 + 1.30000ml of S11763 + 1.30000ml of S11765 + 1.30000ml of S11899 + 1.30000ml of S11900 + 1.30000ml of S11904 + 1.30000ml of S12091 + 1.30000ml of S12092 + 1.30000ml of S12095 + 1.40000ml of S11906 + 1.40000ml of S12090 + 1.40000ml of S12093 + 1.50000ml of S11560 + 1.50000ml of S11764 + 1.50000ml of S11898 + 163.00000ml of E3753 = Final Quantity: 200.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3764 | 8270/625 Stock solution 100 ng | SP6549 | 07/09/2024 | 08/26/2024 | Jagrut Upadhyay | None | None | mohammad ahmed 07/09/2024 |

**FROM** 0.26700ml of S10102 + 0.40000ml of S11434 + 0.50000ml of S12112 + 1.00000ml of S11092 + 1.00000ml of S11096 + 1.00000ml of S11102 + 1.00000ml of S11148 + 1.00000ml of S12076 + 3.83300ml of E3746 = Final Quantity: 10.000 ml

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# SVOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 413 | 80 ng BNA ICC, 80 PPM | SP6550 | 07/09/2024 | 08/26/2024 | Jagrut Upadhyay | None | None | mohammad ahmed 07/09/2024 |

**FROM** 0.01000ml of S12033 + 0.20000ml of E3746 + 0.80000ml of SP6549 = Final Quantity: 1.010 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 412 | 60 ng BNA ICC, 60 PPM | SP6551 | 07/09/2024 | 08/26/2024 | Jagrut Upadhyay | None | None | mohammad ahmed 07/09/2024 |

**FROM** 0.01000ml of S12033 + 0.40000ml of E3746 + 0.60000ml of SP6549 = Final Quantity: 1.010 ml

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# SVOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 411 | 50 ng BNA ICC, 50 PPM | SP6552 | 07/09/2024 | 08/26/2024 | Jagrut Upadhyay | None | None | mohammad ahmed 07/09/2024 |

**FROM** 0.01000ml of S12033 + 0.50000ml of E3746 + 0.50000ml of SP6549 = Final Quantity: 1.010 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 410 | 40 ng BNA ICC, 40 PPM | SP6553 | 07/09/2024 | 08/26/2024 | Jagrut Upadhyay | None | None | mohammad ahmed 07/09/2024 |

**FROM** 0.01000ml of S12033 + 0.60000ml of E3746 + 0.40000ml of SP6549 = Final Quantity: 1.010 ml

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# SVOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3678 | 20 ng BNA ICC, 20 PPM | SP6554 | 07/09/2024 | 08/26/2024 | Jagrut Upadhyay | None | None | mohammad ahmed 07/09/2024 |

**FROM** 0.01000ml of S12033 + 0.80000ml of E3746 + 0.20000ml of SP6549 = Final Quantity: 1.010 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 408 | 10 ng BNA ICC, 10 PPM | SP6555 | 07/09/2024 | 08/26/2024 | Jagrut Upadhyay | None | None | mohammad ahmed 07/09/2024 |

**FROM** 0.01000ml of S12033 + 0.90000ml of E3746 + 0.10000ml of SP6549 = Final Quantity: 1.010 ml

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# SVOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 407 | 5 ng BNA ICC, 5 PPM | SP6556 | 07/09/2024 | 08/26/2024 | Jagrut Upadhyay | None | None | mohammad ahmed 07/09/2024 |

**FROM** 0.01000ml of S12033 + 0.95000ml of E3746 + 0.05000ml of SP6549 = Final Quantity: 1.010 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 175 | 2.5 ng BNA ICC, 2.5 PPM | SP6557 | 07/09/2024 | 08/26/2024 | Jagrut Upadhyay | None | None | mohammad ahmed 07/09/2024 |

**FROM** 0.01000ml of S12033 + 0.50000ml of E3746 + 0.50000ml of SP6556 = Final Quantity: 1.010 ml

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# SVOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 18 | Second Source Calibration Stock Standard, 100 PPM, (8270/625/CLP) | SP6558 | 07/09/2024 | 11/30/2024 | Jagrut Upadhyay | None | None | mohammad ahmed 07/11/2024 |

**FROM** 0.04000ml of S10977 + 0.08000ml of S11003 + 0.10000ml of S11766 + 0.20000ml of S11566 + 0.20000ml of S12097 + 0.20000ml of S12117 + 1.18000ml of E3768 = Final Quantity: 2.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 416 | 40 ng BNA ICV, 40 PPM | SP6559 | 07/09/2024 | 11/30/2024 | Jagrut Upadhyay | None | None | mohammad ahmed 07/11/2024 |

**FROM** 0.01000ml of S12033 + 0.60000ml of E3768 + 0.40000ml of SP6558 = Final Quantity: 1.010 ml

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# SVOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3895 | 50 ug/ml DFTPP 8270E | SP6573 | 07/15/2024 | 01/08/2025 | Rahul Chavli | None | None | Yogesh Patel 07/17/2024 |

**FROM** 1.00000ml of S10247 + 19.00000ml of E3768 = Final Quantity: 20.000 ml

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| PCI Scientific Supply, Inc. | PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1 | 313201 | 01/03/2025 | 01/03/2024 / Rajesh | 07/20/2023 / Rajesh | E3551 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| PCI Scientific Supply, Inc. | PC19510-5 / Sodium Hydroxide Pellets 2.5 Kg, Pk of 4 | 23B1556310 | 12/31/2025 | 12/04/2023 / Rajesh | 12/01/2023 / Rajesh | E3657 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-9254-03 / Acetone, Ultra Resi (cs/4x4L) | 23H14626005 | 11/29/2024 | 05/29/2024 / Rajesh | 05/23/2024 / Rajesh | E3744 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L) | 24C0162011 | 11/25/2024 | 05/25/2024 / Rajesh | 05/08/2024 / Rajesh | E3746 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-9254-03 / Acetone, Ultra Resi (cs/4x4L) | 23H1462005 | 12/01/2024 | 06/01/2024 / Rajesh | 05/31/2024 / Rajesh | E3753 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L) | 24E2462004 | 01/08/2025 | 07/08/2024 / Rajesh | 06/21/2024 / Rajesh | E3768 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L) | 24F1062004 | 02/01/2025 | 08/01/2024 / Rajesh | 07/16/2024 / Rajesh | E3786 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L) | 0000250349 | 12/15/2024 | 01/06/2022 / mohan | 09/18/2021 / mohan | M5037 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| CPI International | Z-112090-04 / CLP Acid Surrogate Solution, 7500 mg/L, 1ml | 440246 | 09/29/2024 | 03/29/2024 / Jagrut | 12/09/2021 / Christian | S10102 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31615 / SV Mixture, GC/MS Tuning Mixture, CH2Cl2, 1mL, | A0182667 | 01/15/2025 | 07/15/2024 / Rahul | 03/18/2022 / Christian | S10247 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555871 / Custom Standard, 4-nitrophenol Std [CS 5238-4] | A0185300 | 10/26/2024 | 04/26/2024 / Rahul | 05/18/2022 / Christian | S10398 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555868 / Custom Standard, Benzidine Std [CS 5328-1] | A0186373 | 08/29/2024 | 02/29/2024 / Jagrut | 07/05/2022 / Christian | S10591 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul | A0188108 | 08/31/2030 | 05/31/2024 / Jagrut | 12/28/2022 / Christian | S10972 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul | A0188108 | 11/30/2024 | 05/31/2024 / Jagrut | 12/28/2022 / Christian | S10973 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul | A0188108 | 11/30/2024 | 05/31/2024 / Jagrut | 12/28/2022 / Christian | S10974 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul | A0188108 | 11/30/2024 | 05/31/2024 / Jagrut | 12/28/2022 / Christian | S10975 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul | A0188108 | 11/30/2024 | 05/31/2024 / Jagrut | 12/28/2022 / Christian | S10976 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul | A0188108 | 11/30/2024 | 05/31/2024 / Jagrut | 12/28/2022 / Christian | S10977 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml | A0189418 | 08/31/2028 | 05/31/2024 / Jagrut | 12/28/2022 / Christian | S10996 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml | A0189418 | 11/30/2024 | 05/31/2024 / Jagrut | 12/28/2022 / Christian | S10997 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml | A0189418 | 11/30/2024 | 05/31/2024 / Jagrut | 12/28/2022 / Christian | S10998 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml | A0189418 | 11/30/2024 | 05/31/2024 / Jagrut | 12/28/2022 / Christian | S10999 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml | A0189418 | 11/30/2024 | 05/31/2024 / Jagrut | 12/28/2022 / Christian | S11000 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml | A0189418 | 11/30/2024 | 05/31/2024 / Jagrut | 12/28/2022 / Christian | S11001 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml | A0189418 | 11/30/2024 | 05/31/2024 / Jagrut | 12/28/2022 / Christian | S11002 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml | A0189418 | 11/30/2024 | 05/31/2024 / Jagrut | 12/28/2022 / Christian | S11003 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555872 / Custom Standard, pentachlorophenol Std [CS 5328-5] | A0193449 | 10/26/2024 | 04/26/2024 / Rahul | 01/13/2023 / Christian | S11012 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| CPI International | Z-110817-01 / Custom 8270 Mix, 4-55, 1000 mg/L, 1 ml, (Maximum Expiration: 90 Days) | 414125 | 01/09/2025 | 07/09/2024 / Jagrut | 02/07/2023 / Christian | S11092 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| CPI International | z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml | 495831 | 01/09/2025 | 07/09/2024 / Jagrut | 02/07/2023 / Christian | S11096 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| CPI International | Z-010442-07 / Benzaldehyde Solution, 1000 mg/L, 1.3 ml, (Maximum Expiration: 90 Days) | 495833 | 01/09/2025 | 07/09/2024 / Jagrut | 02/07/2023 / Christian | S11102 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555870 / Custom Standard, 2,4-dinitrophenol Std [CS 5328-3] | A0194698 | 08/29/2024 | 02/29/2024 / Jagrut | 02/20/2023 / Christian | S11136 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| CPI International | Z-010074-07 / 3,3'-Dichlorobenzidine Solution, 1,000 mg/L, 1 ml, (Maximum Expiration: 180 days) | 406703 | 01/09/2025 | 07/09/2024 / Jagrut | 03/06/2023 / Christian | S11148 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| CPI International | Z-110094-02 / CLP Base/Neutral Surrogate Solution, 5000 mg/L, 1ml | 503442 | 08/26/2024 | 07/09/2024 / Jagrut | 07/26/2023 / yogesh | S11434 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1] | A0201940 | 10/26/2024 | 04/26/2024 / Rahul | 09/18/2023 / Kiran | S11546 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1] | A0201940 | 12/05/2024 | 06/05/2024 / Rahul | 09/18/2023 / Kiran | S11548 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1] | A0201940 | 12/05/2024 | 06/05/2024 / Rahul | 09/18/2023 / Kiran | S11554 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1] | A0201940 | 11/16/2024 | 05/16/2024 / Jagrut | 09/18/2023 / Kiran | S11557 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1] | A0201940 | 12/05/2024 | 06/05/2024 / Rahul | 09/18/2023 / Kiran | S11560 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1] | A0201940 | 12/05/2024 | 06/05/2024 / Rahul | 09/18/2023 / Kiran | S11563 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1] | A0201940 | 12/05/2024 | 06/05/2024 / Rahul | 09/18/2023 / Kiran | S11564 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1] | A0201940 | 12/05/2024 | 06/05/2024 / Rahul | 09/18/2023 / Kiran | S11565 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1] | A0201940 | 12/05/2024 | 06/05/2024 / Rahul | 09/18/2023 / Kiran | S11566 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride | A0196453 | 11/13/2024 | 05/13/2024 / Jagrut | 11/21/2023 / Rahul | S11762 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride | A0196453 | 12/05/2024 | 06/05/2024 / Rahul | 11/21/2023 / Rahul | S11763 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride | A0196453 | 12/05/2024 | 06/05/2024 / Rahul | 11/21/2023 / Rahul | S11764 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride | A0196453 | 12/05/2024 | 06/05/2024 / Rahul | 11/21/2023 / Rahul | S11765 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride | A0196453 | 12/14/2024 | 06/14/2024 / Rahul | 11/21/2023 / Rahul | S11766 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2] | A0197982 | 11/30/2024 | 06/05/2024 / Rahul | 11/21/2023 / rahul | S11898 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2] | A0197982 | 11/30/2024 | 06/05/2024 / Rahul | 11/21/2023 / rahul | S11899 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2] | A0197982 | 11/30/2024 | 06/05/2024 / Rahul | 11/21/2023 / rahul | S11900 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2] | A0197982 | 10/26/2024 | 04/26/2024 / Rahul | 11/21/2023 / rahul | S11901 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2] | A0197982 | 11/16/2024 | 05/16/2024 / Jagrut | 11/21/2023 / rahul | S11902 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2] | A0197982 | 11/30/2024 | 06/05/2024 / Rahul | 11/21/2023 / rahul | S11903 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2] | A0197982 | 11/30/2024 | 06/05/2024 / Rahul | 11/21/2023 / rahul | S11904 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2] | A0197982 | 11/30/2024 | 06/05/2024 / Rahul | 11/21/2023 / rahul | S11905 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2] | A0197982 | 11/30/2024 | 06/05/2024 / Rahul | 11/21/2023 / rahul | S11906 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL | A0201320 | 01/01/2025 | 07/01/2024 / Rahul | 12/21/2023 / Rahul | S12033 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL | A0201320 | 02/07/2025 | 08/07/2024 / anahy | 12/21/2023 / Rahul | S12039 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL | A0201320 | 02/13/2025 | 08/13/2024 / anahy | 12/21/2023 / Rahul | S12041 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| CPI International | Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days) | 414127 | 01/09/2025 | 07/09/2024 / Jagrut | 01/31/2024 / Rahul | S12076 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2] | A0207706 | 10/26/2024 | 04/26/2024 / Rahul | 02/05/2024 / Rahul | S12088 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2] | A0207706 | 11/16/2024 | 05/16/2024 / Jagrut | 02/05/2024 / Rahul | S12089 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2] | A0207706 | 12/05/2024 | 06/05/2024 / Rahul | 02/05/2024 / Rahul | S12090 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2] | A0207706 | 12/05/2024 | 06/05/2024 / Rahul | 02/05/2024 / Rahul | S12091 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2] | A0207706 | 12/05/2024 | 06/05/2024 / Rahul | 02/05/2024 / Rahul | S12092 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2] | A0207706 | 12/05/2024 | 06/05/2024 / Rahul | 02/05/2024 / Rahul | S12093 |

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Fax : 908 789 8922

# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2] | A0207706 | 12/05/2024 | 06/05/2024 / Rahul | 02/05/2024 / Rahul | S12094 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2] | A0207706 | 12/05/2024 | 06/05/2024 / Rahul | 02/05/2024 / Rahul | S12095 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2] | A0207706 | 12/05/2024 | 06/05/2024 / Rahul | 02/05/2024 / Rahul | S12096 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2] | A0207706 | 01/09/2025 | 07/09/2024 / Jagrut | 02/05/2024 / Rahul | S12097 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| CPI International | z-010223-01 / 1,4-Dioxane Solution, 2,000mg/L, 1ml | 454157 | 01/09/2025 | 07/09/2024 / Jagrut | 03/08/2024 / Rahul | S12112 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2] | A0203726 | 12/05/2024 | 06/05/2024 / Rahul | 03/15/2024 / Rahul | S12117 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555869 / Custom Standard, hexachlorocyclopentadiene Std [CS 5328-2] | A0175226 | 08/31/2024 | 06/05/2024 / Rahul | 08/12/2021 / Christian | S9675 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | DIW / DI Water | Daily Lab-Certified | 10/24/2024 | 10/24/2019 / apatel | 10/24/2019 / apatel | W2606 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | DIW / DI Water | Daily Lab-Certified | 07/03/2029 | 07/03/2024 / Iwona | 07/03/2024 / Iwona | W3112 |

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Date Received:_____

# Certificate of Analysis

Rev 0 **Page 1 of 1**

| Catalog No.: | Lot No.: | Storage: | Solvent: | Exp. Date: | Description: |
|---|---|---|---|---|---|
| Z-010074-07 | 406703 | ≤ -10 °C | Methylene Chloride | 3/30/2025 | 3,3'-Dichlorobenzidine Solution, 1,000 mg/L, 1 mL |

| Compound | CAS No. | Purity (%) | Compound Lot No. | Concentration, mg/L |
|---|---|---|---|---|
| 3,3'-dichlorobenzidine | 91-94-1 | 99.5 | 74.3.26P | 989 ± 7.53 |

Received on
02/07/23
by
CG

S11084
to
S11088

*Not a certified value

Certified By: _____
Jacob Mulloy
**Chemist**

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricllly.

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Date Received:_____

# Certificate of Analysis

Rev 0 **Page 1 of 1**

| Catalog No.: | Lot No.: | Storage: | Solvent: | Exp. Date: | Description: |
|---|---|---|---|---|---|
| Z-110817-01 | 414125 | ≤ -10 °C | Methylene Chloride | 6/21/2025 | Custom 8270 Mix, 4-55, 1000 mg/L, 1 mL |

| Compound | CAS No. | Purity (%) | Compound Lot No. | Concentration, mg/L |
|---|---|---|---|---|
| acetophenone | 98-86-2 | 99.2 | 85.8.1P | 998 ± 11.5 |
| benzoic acid | 65-85-0 | 100 | 123.7.1P | 1010 ± 5.88 |
| biphenyl | 92-52-4 | 99.9 | 366.29.1P | 999 ± 5.82 |
| 1,2,4,5-tetrachlorobenzene | 95-94-3 | 99.7 | 53.7.2P | 993 ± 5.79 |

Received on
02/07/23
by
CG
S11089
to
S11093

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____
Shane Overcash
**Chemist**

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

CPI INTERNATIONAL

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# Certificate of Analysis

Rev 0 

| Catalog No.: | Lot No.: | Storage: | Solvent: | Exp. Date: | Description: |
|---|---|---|---|---|---|
| Z-112090-04 | 440246 | ≤ -10 °C | Methylene Chloride | 2/16/2026 | CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL |

| Compound | CAS No. | Purity (%) | Compound Lot No. | Concentration, mg/L |
|---|---|---|---|---|
| 2-chlorophenol-$d_4$ | 93951-73-6 | 99.3 | 248.12.7P | 7487 ± 17.2 |
| 2-fluorophenol | 367-12-4 | 99.8 | 10.7.3.3P | 7513 ± 17.26 |
| phenol-d6 | 13127-88-3 | 99.9 | 949.120.8P | 7481 ± 17.19 |
| 2,4,6-tribromophenol | 118-79-6 | 99.8 | 12.1.6P | 7469 ± 17.17 |

Received on
02/25/21
by
CG

S9236
to
S9240

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: Erica Castiglione

Erica Castiglione
**Chemist**

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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Received on 02/07/23 by CG

~~S11096~~ S11096 to S11099

Manufacturer's Quality System
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by TUV USA to ISO 9001:2015

Date Received:_____

# Certificate of Analysis

Rev 0 **Page 1 of 4**

| Catalog No.: | Lot No.: | Storage: | Solvent: | Exp. Date: | Description: |
|---|---|---|---|---|---|
| Z-110381-01 | 495831 | ≤ -10 °C | Methylene Chloride | 10/30/2027 | Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL |

| Compound | CAS No. | Purity (%) | Compound Lot No. | Concentration, mg/L |
|---|---|---|---|---|
| acenaphthene | 83-32-9 | 99.9 | 13.1.5P | 1003 ± 17.27 |
| acenaphthylene | 208-96-8 | 97.6 | 14.290.1P | 999.8 ± 17.22 |
| aniline | 62-53-3 | 99.9 | 64.7.1P | 995 ± 17.13 |
| anthracene | 120-12-7 | 99.5 | 15.7.1P | 1001 ± 17.24 |
| azobenzene | 103-33-3 | 98.1 | 252.7.2P | 999.1 ± 17.21 |
| benzo[a]anthracene | 56-55-3 | 100 | 16.7.3P | 1001 ± 17.24 |
| benzo[b]fluoranthene | 205-99-2 | 99.8 | 17.421.3P | 1001 ± 19.91 |
| benzo[k]fluoranthene | 207-08-9 | 98.9 | 18.421.4P | 1001 ± 17.92 |
| benzo[ghi]perylene | 191-24-2 | 93 | 19.286.4P | 999.6 ± 19.88 |
| benzo[a]pyrene | 50-32-8 | 97 | 20.286.2P | 999.1 ± 26.35 |
| benzyl alcohol | 100-51-6 | 99.9 | 65.18.1P | 1001 ± 17.24 |
| bis(2-chloroethoxy)methane | 111-91-1 | 99.1 | 31.3.15P | 999.7 ± 17.89 |
| bis(2-chloroethyl)ether | 111-44-4 | 99.8 | 32.7.1P | 1001 ± 17.23 |
| bis(2-chloro-1-methylethyl) ether | 108-60-1 | 99.5 | 34.3.13P | 999.5 ± 17.89 |
| bis(2-ethylhexyl)adipate | 103-23-1 | 99.5 | 874.7.1P | 999.5 ± 17.21 |
| bis(2-ethylhexyl)phthalate | 117-81-7 | 99.4 | 33.29.1P | 998.8 ± 19.86 |
| 4-bromophenyl phenyl ether | 101-55-3 | 99.4 | 35.7.1P | 999.1 ± 17.2 |
| butyl benzyl phthalate | 85-68-7 | 98.4 | 36.1.6P | 984.7 ± 19.58 |
| carbazole | 86-74-8 | 99.4 | 239.7.2P | 1000 ± 17.22 |

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: Briana Smith

Briana Smith
**Chemist**

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

# Certificate of Analysis



**Catalog No.:** Z-110381-01 **Lot No.:** 495831 **Expiration Date:** 10/30/2027

| Compound | CAS No. | Purity (%) | Compound Lot No. | Concentration, mg/L |
|---|---|---|---|---|
| 1,2,4-trichlorobenzene | 120-82-1 | 99.6 | 54.29.1P | 1000 ± 17.22 |
| 2,4,5-trichlorophenol | 95-95-4 | 96.5 | 121.7.1.1P | 1000 ± 17.22 |
| 2,4,6-trichlorophenol | 88-06-2 | 99.6 | 113.7.1P | 1002 ± 17.25 |

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: Briana Smith

Briana Smith
**Chemist**

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CPI INTERNATIONAL

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Date Received:_____

# Certificate of Analysis

Rev 0 **Page 1 of 1**

| Catalog No.: | Lot No.: | Storage: | Solvent: | Exp. Date: | Description: |
|---|---|---|---|---|---|
| Z-010442-07 | 495833 | ≤ -10 °C | Methylene Chloride | 1/16/2028 | Benzaldehyde Solution, 1000 mg/L, 1.3 mL |

| Compound | CAS No. | Purity (%) | Compound Lot No. | Concentration, mg/L |
|---|---|---|---|---|
| benzaldehyde | 100-52-7 | 98.3 | 442.421.1P | 996.8 ± 11.49 |

Received on
02/07/23
by CG

S11101
to
S11103

*Not a certified value

Certified By: S. Hunter

Scott Hunter
**Chemist**

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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# CERTIFIED REFERENCE MATERIAL

## Gravimetric Certificate

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

Received on 08/12/21 by CG S 9671 to S 9675

**Catalog No. :** 555869 **Lot No.:** A0175226

**Description :** Custom Hexachlorocyclopentadiene Standard

Custom Hexachlorocyclopentadiene Standard 25,000µg/mL, Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** August 31, 2024 **Storage:** 10°C or colder

**Ship:** Ambient

### CERTIFIED VALUES

| Component # | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | |
|---|---|---|---|---|
| 1 | Hexachlorocyclopentadiene | 25,032.0 µg/mL | +/- 231.6508 µg/mL | Gravimetric |
| | **CAS #** 77-47-4 (Lot 0012019) | | +/- 1,251.3257 µg/mL | Unstressed |
| | **Purity** 99% | | +/- 1,281.8032 µg/mL | Stressed |

**Solvent:** Methanol
**CAS #** 67-56-1
**Purity** 99%

Lane Kibe - Mix Technician **Date Mixed:** 09-Aug-2021 **Balance:** B345965662

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

**General Certified Reference Material Notes**

**Expiration Notes:**

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

**Purity Notes:**

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

**Certified Uncertainty Value Notes:**

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value ( includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

| Label Conditions | Standard Conditions | Non-Standard Conditions |
|---|---|---|
| 25°C Nominal (Room Temperature) | < 60°C | ≥ 60°C up to 7 days |
| 10°C or colder (Refrigerate) | < 40°C | ≥ 40°C up to 7 days |
| 0°C or colder (Freezer)<br>-20°C or colder (Deep Freezer) | < 25°C | ≥ 25°C up to 7 days |

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

**Manufacturing Notes:**

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

**Handling Notes:**

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

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www.restek.com

# CERTIFIED REFERENCE MATERIAL

## Certificate of Analysis

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

Received on 03/08/22 by CG S10242 to S10247

**Catalog No. :** 31615 **Lot No.:** A0182667

**Description :** GC/MS Tuning Mixture

GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** March 31, 2025 **Storage:** 10°C or colder

**Handling:** Contains carcinogen/reproductive toxin. **Ship:** Ambient

### CERTIFIED VALUES

| Elution Order | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | |
|---|---|---|---|---|
| 1 | Pentachlorophenol<br>**CAS #** 87-86-5 (Lot 211229RSR)<br>**Purity** 99% | 1,003.6 µg/mL | +/- 5.8897 µg/mL<br>+/- 45.7132 µg/mL<br>+/- 66.0037 µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 2 | DFTPP (Decafluorotriphenylphosphine)<br>**CAS #** 5074-71-5 (Lot Q117-147)<br>**Purity** 95% | 1,006.6 µg/mL | +/- 5.9074 µg/mL<br>+/- 45.8508 µg/mL<br>+/- 66.2023 µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 3 | Benzidine<br>**CAS #** 92-87-5 (Lot 211228JLM)<br>**Purity** 99% | 1,008.4 µg/mL | +/- 5.9179 µg/mL<br>+/- 45.9318 µg/mL<br>+/- 66.3193 µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 4 | 4,4'-DDT<br>**CAS #** 50-29-3 (Lot 210916JLM)<br>**Purity** 99% | 1,007.6 µg/mL | +/- 5.9132 µg/mL<br>+/- 45.8954 µg/mL<br>+/- 66.2667 µg/mL | Gravimetric<br>Unstressed<br>Stressed |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

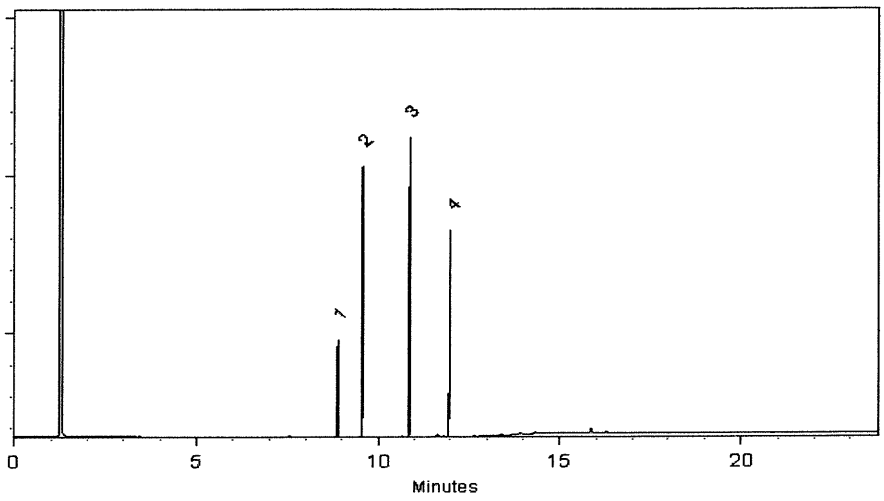
**Carrier Gas:**
hydrogen-constant pressure 10 psi.

**Temp. Program:**
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

**Inj. Temp:**
250°C

**Det. Temp:**
330°C

**Det. Type:**
FID




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

**Date Mixed:** 08-Mar-2022 **Balance:** B345965662

Merlina Cowan - Operations Tech I

**Date Passed:** 10-Mar-2022

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

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## Gravimetric Certificate

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Certificate #3222.01

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Testing Laboratory
Certificate #3222.02

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Received by CG on 05/19/22

S10393 to S10402

**Catalog No. :** 555871 **Lot No.:** A0185300

**Description :** Custom 4-Nitrophenol Standard

Custom 4-Nitrophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** May 31, 2025 **Storage:** 10°C or colder

**Ship:** Ambient

### CERTIFIED VALUES

| Component # | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | | |
|---|---|---|---|---|---|
| 1 | 4-Nitrophenol | 25,060.0 µg/mL | +/- 231.9100 | µg/mL | Gravimetric |
| | **CAS #** 100-02-7 (Lot MKCN1089) | | +/- 753.2622 | µg/mL | Unstressed |
| | **Purity** 99% | | +/- 905.6020 | µg/mL | Stressed |

**Solvent:** Methanol
**CAS #** 67-56-1
**Purity** 99%

Katelyn McGinnis - Operations Tech I

**Date Mixed:** 16-May-2022 **Balance:** 1128342314

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

**General Certified Reference Material Notes**

**Expiration Notes:**

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

**Purity Notes:**

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

**Certified Uncertainty Value Notes:**

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value ( includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

*k* is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

| Label Conditions | Standard Conditions | Non-Standard Conditions |
|---|---|---|
| 25°C Nominal (Room Temperature) | < 60°C | ≥ 60°C up to 7 days |
| 10°C or colder (Refrigerate) | < 40°C | ≥ 40°C up to 7 days |
| 0°C or colder (Freezer)<br>-20°C or colder (Deep Freezer) | < 25°C | ≥ 25°C up to 7 days |

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

**Manufacturing Notes:**

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

**Handling Notes:**

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

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Received by CG on 07/05/22 S10583 to S10592

**Catalog No. :** 555868 **Lot No.:** A0186373

**Description :** Custom Benzidine Standard

Custom Benzidine Standard 25,000µg/mL, Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** June 30, 2025 **Storage:** 10°C or colder

**Handling:** Contains carcinogen/reproductive toxin. **Ship:** Ambient

### CERTIFIED VALUES

| Component # | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | |
|---|---|---|---|---|
| 1 | Benzidine | 25,200.0 µg/mL | +/- 233.2055 µg/mL | Gravimetric |
| | **CAS #** 92-87-5 (Lot 220511RSR) | | +/- 351.6606 µg/mL | Unstressed |
| | **Purity** 99% | | +/- 512.6054 µg/mL | Stressed |

**Solvent:** Methanol
**CAS #** 67-56-1
**Purity** 99%

Tom Suckar - Mix Technician **Date Mixed:** 16-Jun-2022 **Balance:** 1122030677

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

**General Certified Reference Material Notes**

**Expiration Notes:**

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

**Purity Notes:**

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

**Certified Uncertainty Value Notes:**

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value ( includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

*k* is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

| Label Conditions | Standard Conditions | Non-Standard Conditions |
|---|---|---|
| 25°C Nominal (Room Temperature) | < 60°C | ≥ 60°C up to 7 days |
| 10°C or colder (Refrigerate) | < 40°C | ≥ 40°C up to 7 days |
| 0°C or colder (Freezer)<br>-20°C or colder (Deep Freezer) | < 25°C | ≥ 25°C up to 7 days |

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

**Manufacturing Notes:**

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

**Handling Notes:**

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

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Received by CG on 12/28/22 S10951 to S10980

**Catalog No. :** 31087 **Lot No.:** A0188108

**Description :** Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

**Container Size :** 5 mL **Pkg Amt:** > 5 mL

**Expiration Date :** August 31, 2030 **Storage:** 10°C or colder

**Ship:** Ambient

## CERTIFIED VALUES

| Elution Order | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | |
|---|---|---|---|---|
| 1 | 2-Fluorophenol<br>**CAS #** 367-12-4<br>**Purity** 99% (Lot STBF3761V) | 10,088.5 µg/mL | +/- 58.6554 µg/mL<br>+/- 294.4162 µg/mL<br>+/- 357.2628 µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 2 | Phenol-d6<br>**CAS #** 13127-88-3<br>**Purity** 99% (Lot PR-31262) | 10,043.3 µg/mL | +/- 58.3923 µg/mL<br>+/- 293.0957 µg/mL<br>+/- 355.6603 µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 3 | 2,4,6-Tribromophenol<br>**CAS #** 118-79-6<br>**Purity** 99% (Lot MKCJ7664) | 10,010.0 µg/mL | +/- 58.1990 µg/mL<br>+/- 292.1253 µg/mL<br>+/- 354.4829 µg/mL | Gravimetric<br>Unstressed<br>Stressed |

**Solvent:** Methanol
**CAS #** 67-56-1
**Purity** 99%

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

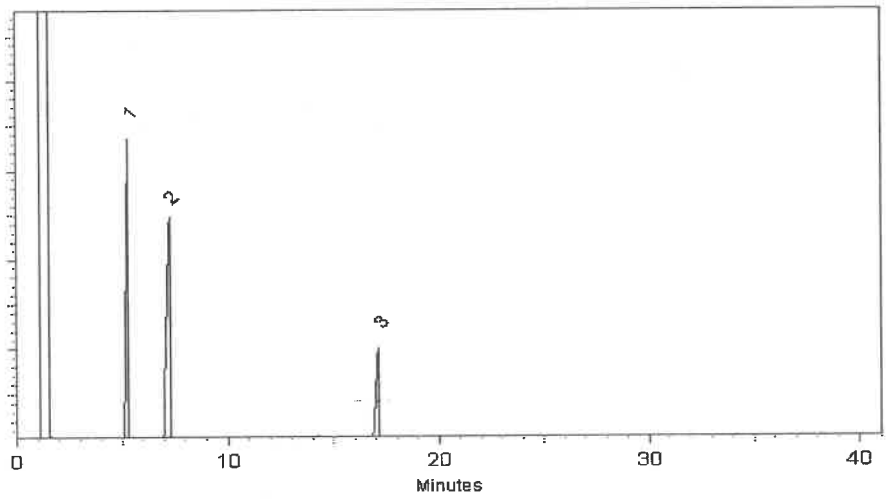
**Carrier Gas:**
hydrogen-constant pressure 10 psi.

**Temp. Program:**
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

**Inj. Temp:**
250°C

**Det. Temp:**
330°C

**Det. Type:**
FID




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

**Date Mixed:** 02-Aug-2022 **Balance:** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 05-Aug-2022

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

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Received by CG on 12/28/22 S10951 to S10980

**Catalog No. :** 31087 **Lot No.:** A0188108

**Description :** Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

**Container Size :** 5 mL **Pkg Amt:** > 5 mL

**Expiration Date :** August 31, 2030 **Storage:** 10°C or colder

**Ship:** Ambient

## CERTIFIED VALUES

| Elution Order | Compound | | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | |
|---|---|---|---|---|---|
| 1 | 2-Fluorophenol<br>**CAS #** 367-12-4<br>**Purity** 99% | (Lot STBF3761V) | 10,088.5 µg/mL | +/- 58.6554 µg/mL<br>+/- 294.4162 µg/mL<br>+/- 357.2628 µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 2 | Phenol-d6<br>**CAS #** 13127-88-3<br>**Purity** 99% | (Lot PR-31262) | 10,043.3 µg/mL | +/- 58.3923 µg/mL<br>+/- 293.0957 µg/mL<br>+/- 355.6603 µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 3 | 2,4,6-Tribromophenol<br>**CAS #** 118-79-6<br>**Purity** 99% | (Lot MKCJ7664) | 10,010.0 µg/mL | +/- 58.1990 µg/mL<br>+/- 292.1253 µg/mL<br>+/- 354.4829 µg/mL | Gravimetric<br>Unstressed<br>Stressed |

**Solvent:** Methanol
**CAS #** 67-56-1
**Purity** 99%

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

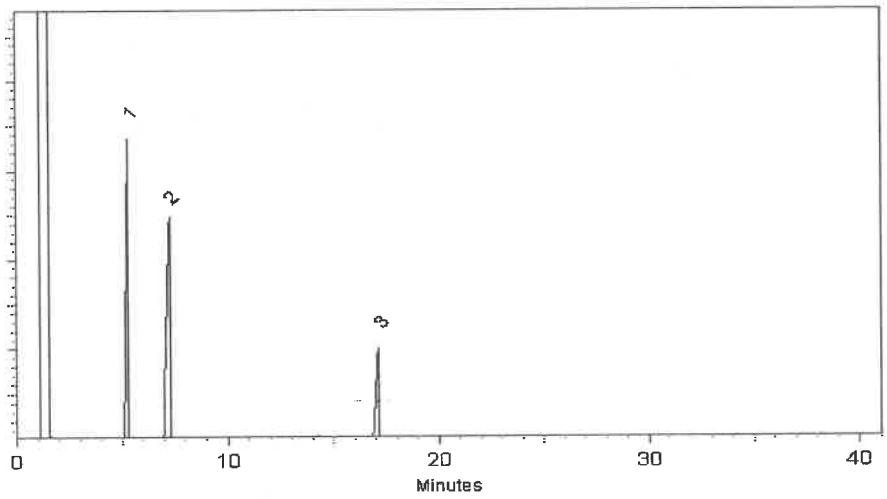
**Carrier Gas:**
hydrogen-constant pressure 10 psi.

**Temp. Program:**
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

**Inj. Temp:**
250°C

**Det. Temp:**
330°C

**Det. Type:**
FID




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

**Date Mixed:** 02-Aug-2022 **Balance:** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 05-Aug-2022

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

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Received by CG on 12/28/22 S10951 to S10980

**Catalog No. :** 31087 **Lot No.:** A0188108

**Description :** Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

**Container Size :** 5 mL **Pkg Amt:** > 5 mL

**Expiration Date :** August 31, 2030 **Storage:** 10°C or colder

**Ship:** Ambient

## CERTIFIED VALUES

| Elution Order | Compound | | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | |
|---|---|---|---|---|---|
| 1 | 2-Fluorophenol<br>**CAS #** 367-12-4<br>**Purity** 99% | (Lot STBF3761V) | 10,088.5 µg/mL | +/- 58.6554 µg/mL<br>+/- 294.4162 µg/mL<br>+/- 357.2628 µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 2 | Phenol-d6<br>**CAS #** 13127-88-3<br>**Purity** 99% | (Lot PR-31262) | 10,043.3 µg/mL | +/- 58.3923 µg/mL<br>+/- 293.0957 µg/mL<br>+/- 355.6603 µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 3 | 2,4,6-Tribromophenol<br>**CAS #** 118-79-6<br>**Purity** 99% | (Lot MKCJ7664) | 10,010.0 µg/mL | +/- 58.1990 µg/mL<br>+/- 292.1253 µg/mL<br>+/- 354.4829 µg/mL | Gravimetric<br>Unstressed<br>Stressed |

**Solvent:** Methanol
**CAS #** 67-56-1
**Purity** 99%

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

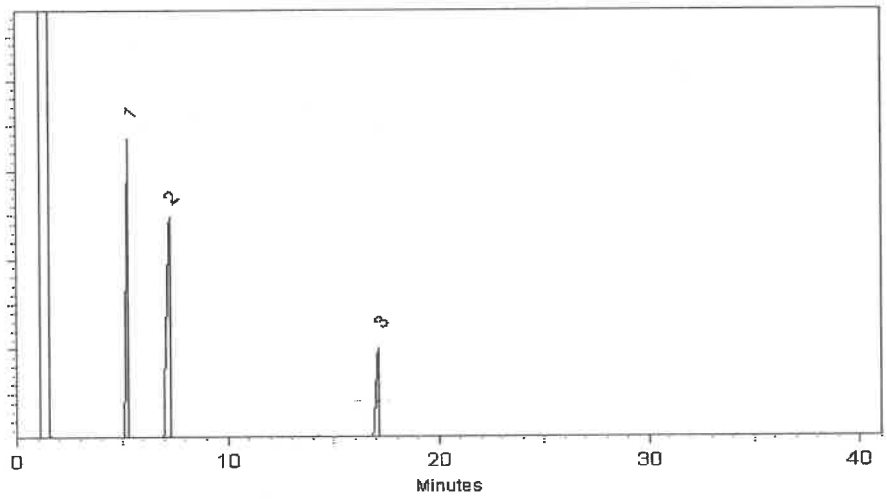
**Carrier Gas:**
hydrogen-constant pressure 10 psi.

**Temp. Program:**
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

**Inj. Temp:**
250°C

**Det. Temp:**
330°C

**Det. Type:**
FID

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Morgan Craighead - Mix Technician

**Date Mixed:** 02-Aug-2022 **Balance:** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 05-Aug-2022

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

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Received by CG on 12/28/22 S10951 to S10980

**Catalog No. :** 31087 **Lot No.:** A0188108

**Description :** Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

**Container Size :** 5 mL **Pkg Amt:** > 5 mL

**Expiration Date :** August 31, 2030 **Storage:** 10°C or colder

**Ship:** Ambient

## CERTIFIED VALUES

| Elution Order | Compound | | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | |
|---|---|---|---|---|---|
| 1 | 2-Fluorophenol<br>**CAS #** 367-12-4<br>**Purity** 99% | (Lot STBF3761V) | 10,088.5 µg/mL | +/- 58.6554 µg/mL<br>+/- 294.4162 µg/mL<br>+/- 357.2628 µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 2 | Phenol-d6<br>**CAS #** 13127-88-3<br>**Purity** 99% | (Lot PR-31262) | 10,043.3 µg/mL | +/- 58.3923 µg/mL<br>+/- 293.0957 µg/mL<br>+/- 355.6603 µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 3 | 2,4,6-Tribromophenol<br>**CAS #** 118-79-6<br>**Purity** 99% | (Lot MKCJ7664) | 10,010.0 µg/mL | +/- 58.1990 µg/mL<br>+/- 292.1253 µg/mL<br>+/- 354.4829 µg/mL | Gravimetric<br>Unstressed<br>Stressed |

**Solvent:** Methanol
**CAS #** 67-56-1
**Purity** 99%

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

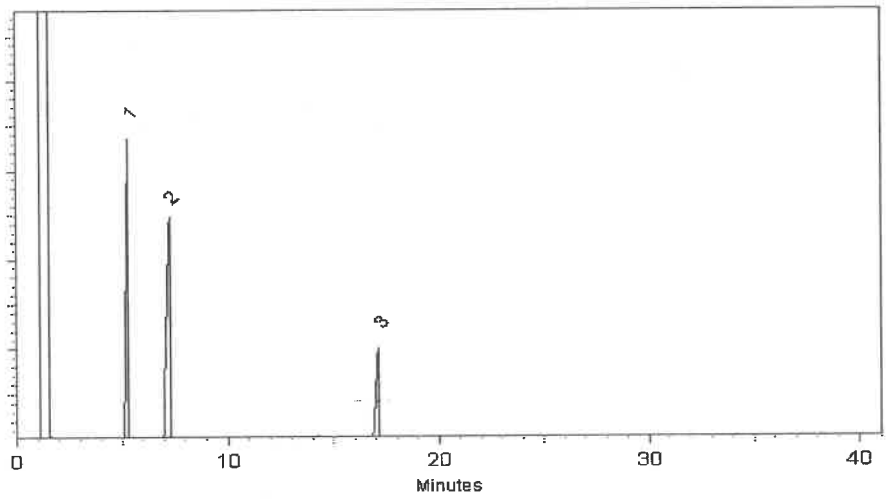
**Carrier Gas:**
hydrogen-constant pressure 10 psi.

**Temp. Program:**
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

**Inj. Temp:**
250°C

**Det. Temp:**
330°C

**Det. Type:**
FID




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

**Date Mixed:** 02-Aug-2022 **Balance:** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 05-Aug-2022

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

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Received by CG on 12/28/22 S10951 to S10980

**Catalog No. :** 31087 **Lot No.:** A0188108

**Description :** Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

**Container Size :** 5 mL **Pkg Amt:** > 5 mL

**Expiration Date :** August 31, 2030 **Storage:** 10°C or colder

**Ship:** Ambient

## CERTIFIED VALUES

| Elution Order | Compound | | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | |
|---|---|---|---|---|---|
| 1 | 2-Fluorophenol<br>**CAS #** 367-12-4<br>**Purity** 99% | (Lot STBF3761V) | 10,088.5 µg/mL | +/- 58.6554 µg/mL<br>+/- 294.4162 µg/mL<br>+/- 357.2628 µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 2 | Phenol-d6<br>**CAS #** 13127-88-3<br>**Purity** 99% | (Lot PR-31262) | 10,043.3 µg/mL | +/- 58.3923 µg/mL<br>+/- 293.0957 µg/mL<br>+/- 355.6603 µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 3 | 2,4,6-Tribromophenol<br>**CAS #** 118-79-6<br>**Purity** 99% | (Lot MKCJ7664) | 10,010.0 µg/mL | +/- 58.1990 µg/mL<br>+/- 292.1253 µg/mL<br>+/- 354.4829 µg/mL | Gravimetric<br>Unstressed<br>Stressed |

**Solvent:** Methanol
**CAS #** 67-56-1
**Purity** 99%

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

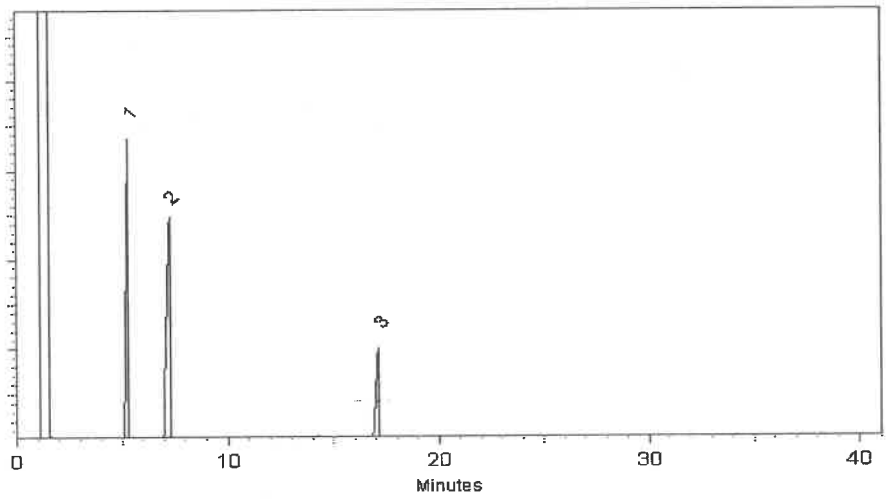
**Carrier Gas:**
hydrogen-constant pressure 10 psi.

**Temp. Program:**
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

**Inj. Temp:**
250°C

**Det. Temp:**
330°C

**Det. Type:**
FID

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Morgan Craighead - Mix Technician

**Date Mixed:** 02-Aug-2022 **Balance:** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 05-Aug-2022

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

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# CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

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Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

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Received by CG on 12/28/22 S10951 to S10980

**Catalog No. :** 31087 **Lot No.:** A0188108

**Description :** Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

**Container Size :** 5 mL **Pkg Amt:** > 5 mL

**Expiration Date :** August 31, 2030 **Storage:** 10°C or colder

**Ship:** Ambient

## CERTIFIED VALUES

| Elution Order | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | |
|---|---|---|---|---|
| 1 | 2-Fluorophenol<br>**CAS #** 367-12-4<br>**Purity** 99%<br>(Lot STBF3761V) | 10,088.5 µg/mL | +/- 58.6554 µg/mL<br>+/- 294.4162 µg/mL<br>+/- 357.2628 µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 2 | Phenol-d6<br>**CAS #** 13127-88-3<br>**Purity** 99%<br>(Lot PR-31262) | 10,043.3 µg/mL | +/- 58.3923 µg/mL<br>+/- 293.0957 µg/mL<br>+/- 355.6603 µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 3 | 2,4,6-Tribromophenol<br>**CAS #** 118-79-6<br>**Purity** 99%<br>(Lot MKCJ7664) | 10,010.0 µg/mL | +/- 58.1990 µg/mL<br>+/- 292.1253 µg/mL<br>+/- 354.4829 µg/mL | Gravimetric<br>Unstressed<br>Stressed |

**Solvent:** Methanol
**CAS #** 67-56-1
**Purity** 99%

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

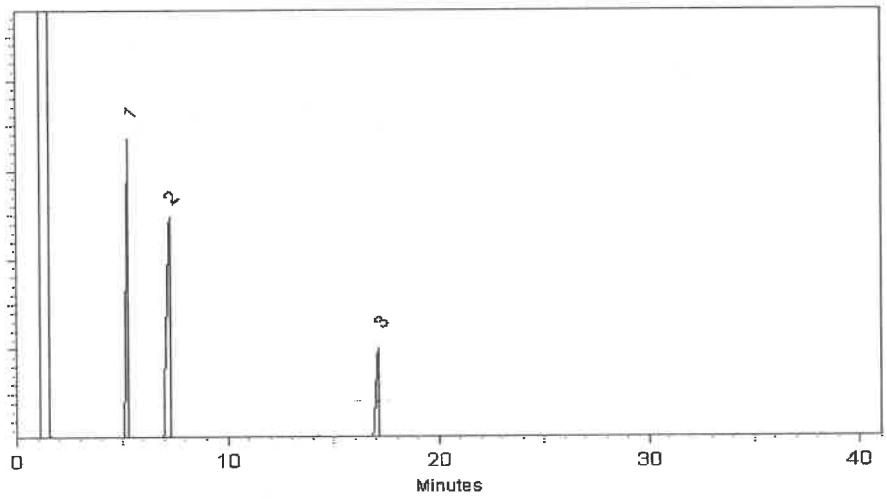
**Carrier Gas:**
hydrogen-constant pressure 10 psi.

**Temp. Program:**
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

**Inj. Temp:**
250°C

**Det. Temp:**
330°C

**Det. Type:**
FID

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Morgan Craighead - Mix Technician

**Date Mixed:** 02-Aug-2022 **Balance:** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 05-Aug-2022

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Received by CG on 12/28/22
S10981 to S11010

**Catalog No. :** 31086 **Lot No.:** A0189418

**Description :** B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

**Container Size :** 5 mL **Pkg Amt:** > 5 mL

**Expiration Date :** August 31, 2028 **Storage:** 10°C or colder

**Handling:** Sonicate prior to use. **Ship:** Ambient

## CERTIFIED VALUES

| Elution Order | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | |
|---|---|---|---|---|
| 1 | Nitrobenzene-d5<br>**CAS #** 4165-60-0 (Lot PR-29940A)<br>**Purity** 99% | 5,009.8 µg/mL | +/- 29.1271 µg/mL<br>+/- 225.6421 µg/mL<br>+/- 250.3778 µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 2 | 2-Fluorobiphenyl<br>**CAS #** 321-60-8 (Lot 00021384)<br>**Purity** 99% | 5,026.6 µg/mL | +/- 29.2250 µg/mL<br>+/- 226.4003 µg/mL<br>+/- 251.2191 µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 3 | p-Terphenyl-d14<br>**CAS #** 1718-51-0 (Lot PR-30504)<br>**Purity** 99% | 5,027.3 µg/mL | +/- 29.2289 µg/mL<br>+/- 226.4304 µg/mL<br>+/- 251.2524 µg/mL | Gravimetric<br>Unstressed<br>Stressed |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

**Tech Tips:**
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

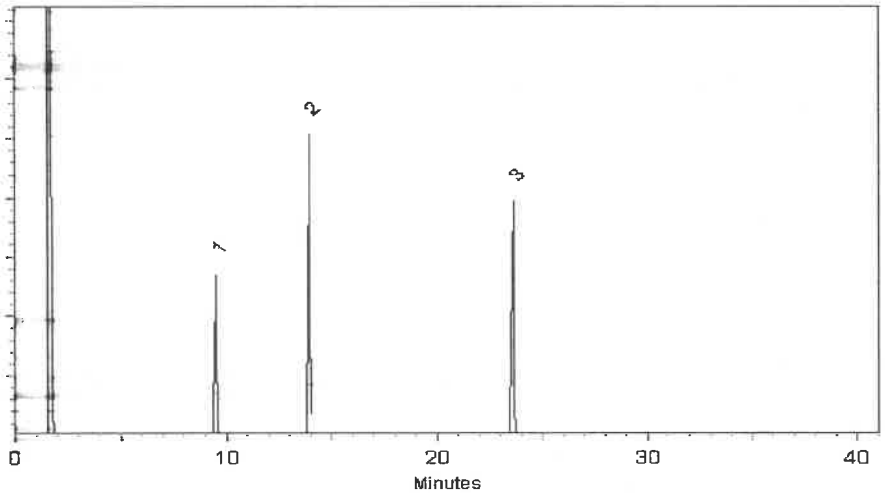
**Carrier Gas:**
hydrogen-constant pressure 10 psi.

**Temp. Program:**
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

**Inj. Temp:**
250°C

**Det. Temp:**
330°C

**Det. Type:**
FID

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John Friedline - Operations Technician I

**Date Mixed:** 09-Sep-2022 **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 13-Sep-2022

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

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Received by CG on 12/28/22 S10981 to S11010

**Catalog No. :** 31086 **Lot No.:** A0189418

**Description :** B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

**Container Size :** 5 mL **Pkg Amt:** > 5 mL

**Expiration Date :** August 31, 2028 **Storage:** 10°C or colder

**Handling:** Sonicate prior to use. **Ship:** Ambient

## CERTIFIED VALUES

| Elution Order | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | |
|---|---|---|---|---|
| 1 | Nitrobenzene-d5<br>**CAS #** 4165-60-0 (Lot PR-29940A)<br>**Purity** 99% | 5,009.8 µg/mL | +/- 29.1271 µg/mL<br>+/- 225.6421 µg/mL<br>+/- 250.3778 µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 2 | 2-Fluorobiphenyl<br>**CAS #** 321-60-8 (Lot 00021384)<br>**Purity** 99% | 5,026.6 µg/mL | +/- 29.2250 µg/mL<br>+/- 226.4003 µg/mL<br>+/- 251.2191 µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 3 | p-Terphenyl-d14<br>**CAS #** 1718-51-0 (Lot PR-30504)<br>**Purity** 99% | 5,027.3 µg/mL | +/- 29.2289 µg/mL<br>+/- 226.4304 µg/mL<br>+/- 251.2524 µg/mL | Gravimetric<br>Unstressed<br>Stressed |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

**Tech Tips:**
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

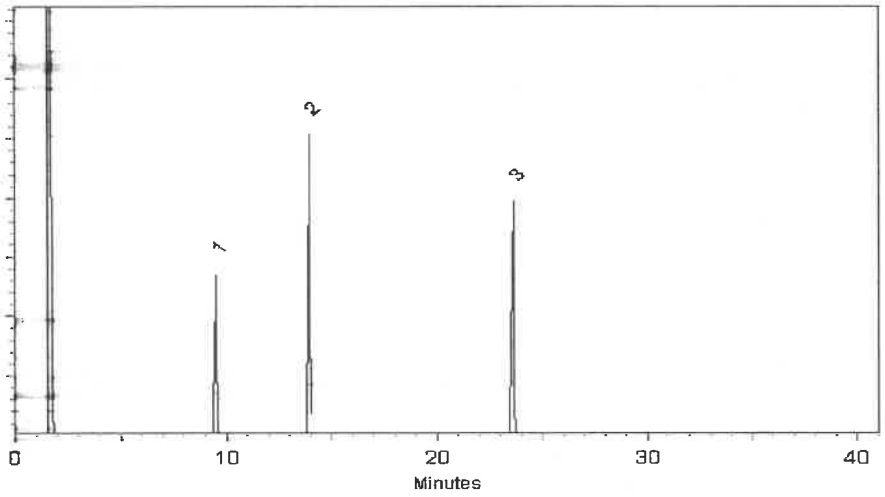
**Carrier Gas:**
hydrogen-constant pressure 10 psi.

**Temp. Program:**
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

**Inj. Temp:**
250°C

**Det. Temp:**
330°C

**Det. Type:**
FID

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John Friedline - Operations Technician I

**Date Mixed:** 09-Sep-2022 **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 13-Sep-2022

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Received by CG on 12/28/22
S10981 to S11010

**Catalog No. :** 31086 **Lot No.:** A0189418

**Description :** B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

**Container Size :** 5 mL **Pkg Amt:** > 5 mL

**Expiration Date :** August 31, 2028 **Storage:** 10°C or colder

**Handling:** Sonicate prior to use. **Ship:** Ambient

## CERTIFIED VALUES

| Elution Order | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | |
|---|---|---|---|---|
| 1 | Nitrobenzene-d5<br>**CAS #** 4165-60-0 (Lot PR-29940A)<br>**Purity** 99% | 5,009.8 µg/mL | +/- 29.1271 µg/mL<br>+/- 225.6421 µg/mL<br>+/- 250.3778 µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 2 | 2-Fluorobiphenyl<br>**CAS #** 321-60-8 (Lot 00021384)<br>**Purity** 99% | 5,026.6 µg/mL | +/- 29.2250 µg/mL<br>+/- 226.4003 µg/mL<br>+/- 251.2191 µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 3 | p-Terphenyl-d14<br>**CAS #** 1718-51-0 (Lot PR-30504)<br>**Purity** 99% | 5,027.3 µg/mL | +/- 29.2289 µg/mL<br>+/- 226.4304 µg/mL<br>+/- 251.2524 µg/mL | Gravimetric<br>Unstressed<br>Stressed |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

**Tech Tips:**
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

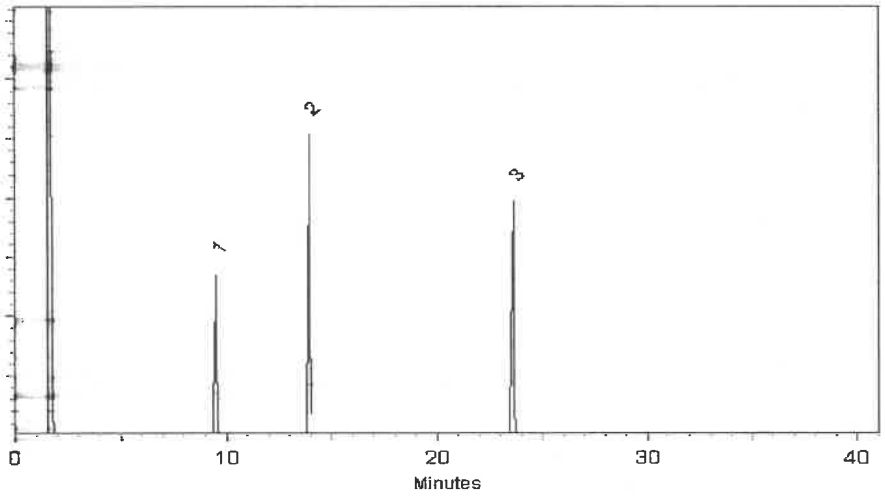
**Carrier Gas:**
hydrogen-constant pressure 10 psi.

**Temp. Program:**
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

**Inj. Temp:**
250°C

**Det. Temp:**
330°C

**Det. Type:**
FID

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John Friedline - Operations Technician I

**Date Mixed:** 09-Sep-2022 **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 13-Sep-2022

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Received by CG on 12/28/22
S10981 to S11010

**Catalog No. :** 31086 **Lot No.:** A0189418

**Description :** B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

**Container Size :** 5 mL **Pkg Amt:** > 5 mL

**Expiration Date :** August 31, 2028 **Storage:** 10°C or colder

**Handling:** Sonicate prior to use. **Ship:** Ambient

## CERTIFIED VALUES

| Elution Order | Compound | | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | |
|---|---|---|---|---|---|
| 1 | Nitrobenzene-d5 | | 5,009.8 µg/mL | +/- 29.1271 µg/mL | Gravimetric |
| | **CAS #** 4165-60-0 | (Lot PR-29940A) | | +/- 225.6421 µg/mL | Unstressed |
| | **Purity** 99% | | | +/- 250.3778 µg/mL | Stressed |
| 2 | 2-Fluorobiphenyl | | 5,026.6 µg/mL | +/- 29.2250 µg/mL | Gravimetric |
| | **CAS #** 321-60-8 | (Lot 00021384) | | +/- 226.4003 µg/mL | Unstressed |
| | **Purity** 99% | | | +/- 251.2191 µg/mL | Stressed |
| 3 | p-Terphenyl-d14 | | 5,027.3 µg/mL | +/- 29.2289 µg/mL | Gravimetric |
| | **CAS #** 1718-51-0 | (Lot PR-30504) | | +/- 226.4304 µg/mL | Unstressed |
| | **Purity** 99% | | | +/- 251.2524 µg/mL | Stressed |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

**Tech Tips:**
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

**Carrier Gas:**
hydrogen-constant pressure 10 psi.

**Temp. Program:**
40°C (hold 2 min.) to 330°C
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**Inj. Temp:**
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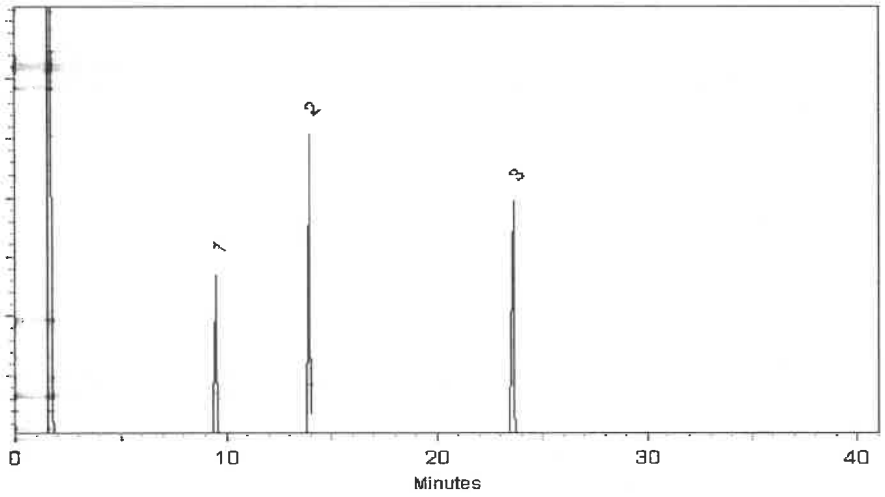
**Det. Temp:**
330°C

**Det. Type:**
FID

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John Friedline - Operations Technician I

**Date Mixed:** 09-Sep-2022 **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 13-Sep-2022

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Received by CG on 12/28/22
S10981 to S11010

**Catalog No. :** 31086 **Lot No.:** A0189418

**Description :** B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

**Container Size :** 5 mL **Pkg Amt:** > 5 mL

**Expiration Date :** August 31, 2028 **Storage:** 10°C or colder

**Handling:** Sonicate prior to use. **Ship:** Ambient

## CERTIFIED VALUES

| Elution Order | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | |
|---|---|---|---|---|
| 1 | Nitrobenzene-d5<br>**CAS #** 4165-60-0 (Lot PR-29940A)<br>**Purity** 99% | 5,009.8 µg/mL | +/- 29.1271 µg/mL<br>+/- 225.6421 µg/mL<br>+/- 250.3778 µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 2 | 2-Fluorobiphenyl<br>**CAS #** 321-60-8 (Lot 00021384)<br>**Purity** 99% | 5,026.6 µg/mL | +/- 29.2250 µg/mL<br>+/- 226.4003 µg/mL<br>+/- 251.2191 µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 3 | p-Terphenyl-d14<br>**CAS #** 1718-51-0 (Lot PR-30504)<br>**Purity** 99% | 5,027.3 µg/mL | +/- 29.2289 µg/mL<br>+/- 226.4304 µg/mL<br>+/- 251.2524 µg/mL | Gravimetric<br>Unstressed<br>Stressed |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

**Tech Tips:**
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

**Carrier Gas:**
hydrogen-constant pressure 10 psi.

**Temp. Program:**
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**Inj. Temp:**
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**Det. Type:**
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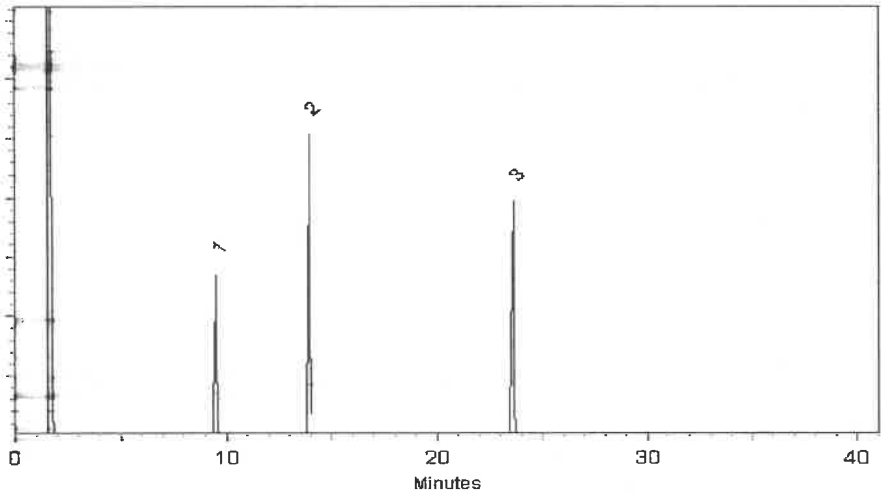


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John Friedline - Operations Technician I

**Date Mixed:** 09-Sep-2022 **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

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S10981 to S11010

**Catalog No. :** 31086 **Lot No.:** A0189418

**Description :** B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

**Container Size :** 5 mL **Pkg Amt:** > 5 mL

**Expiration Date :** August 31, 2028 **Storage:** 10°C or colder

**Handling:** Sonicate prior to use. **Ship:** Ambient

## CERTIFIED VALUES

| Elution Order | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | |
|---|---|---|---|---|
| 1 | Nitrobenzene-d5<br>**CAS #** 4165-60-0 (Lot PR-29940A)<br>**Purity** 99% | 5,009.8 µg/mL | +/- 29.1271 µg/mL<br>+/- 225.6421 µg/mL<br>+/- 250.3778 µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 2 | 2-Fluorobiphenyl<br>**CAS #** 321-60-8 (Lot 00021384)<br>**Purity** 99% | 5,026.6 µg/mL | +/- 29.2250 µg/mL<br>+/- 226.4003 µg/mL<br>+/- 251.2191 µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 3 | p-Terphenyl-d14<br>**CAS #** 1718-51-0 (Lot PR-30504)<br>**Purity** 99% | 5,027.3 µg/mL | +/- 29.2289 µg/mL<br>+/- 226.4304 µg/mL<br>+/- 251.2524 µg/mL | Gravimetric<br>Unstressed<br>Stressed |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

**Tech Tips:**
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

**Carrier Gas:**
hydrogen-constant pressure 10 psi.

**Temp. Program:**
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@ 10°C/min. (hold 10 min.)

**Inj. Temp:**
250°C

**Det. Temp:**
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**Det. Type:**
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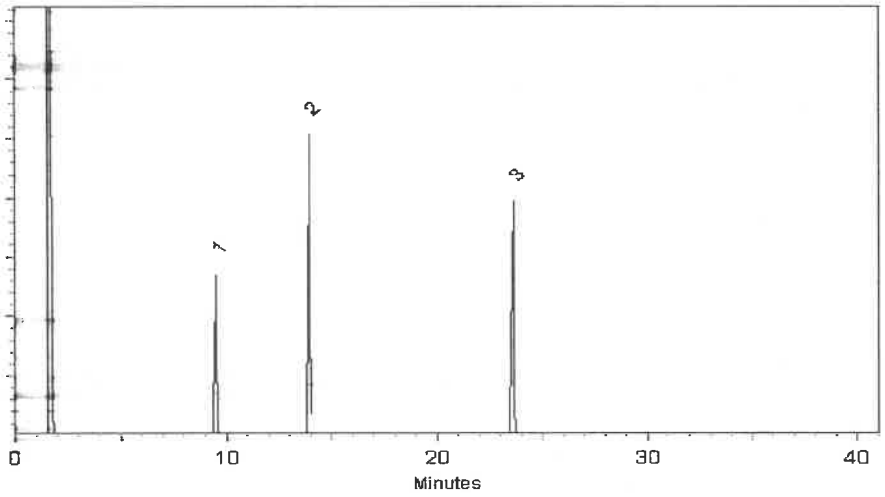


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John Friedline - Operations Technician I

**Date Mixed:** 09-Sep-2022 **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 13-Sep-2022

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

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S10981 to S11010

**Catalog No. :** 31086 **Lot No.:** A0189418

**Description :** B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

**Container Size :** 5 mL **Pkg Amt:** > 5 mL

**Expiration Date :** August 31, 2028 **Storage:** 10°C or colder

**Handling:** Sonicate prior to use. **Ship:** Ambient

## CERTIFIED VALUES

| Elution Order | Compound | | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | |
|---|---|---|---|---|---|
| 1 | Nitrobenzene-d5 | | 5,009.8 µg/mL | +/- 29.1271 µg/mL | Gravimetric |
| | **CAS #** 4165-60-0 | (Lot PR-29940A) | | +/- 225.6421 µg/mL | Unstressed |
| | **Purity** 99% | | | +/- 250.3778 µg/mL | Stressed |
| 2 | 2-Fluorobiphenyl | | 5,026.6 µg/mL | +/- 29.2250 µg/mL | Gravimetric |
| | **CAS #** 321-60-8 | (Lot 00021384) | | +/- 226.4003 µg/mL | Unstressed |
| | **Purity** 99% | | | +/- 251.2191 µg/mL | Stressed |
| 3 | p-Terphenyl-d14 | | 5,027.3 µg/mL | +/- 29.2289 µg/mL | Gravimetric |
| | **CAS #** 1718-51-0 | (Lot PR-30504) | | +/- 226.4304 µg/mL | Unstressed |
| | **Purity** 99% | | | +/- 251.2524 µg/mL | Stressed |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

**Tech Tips:**
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

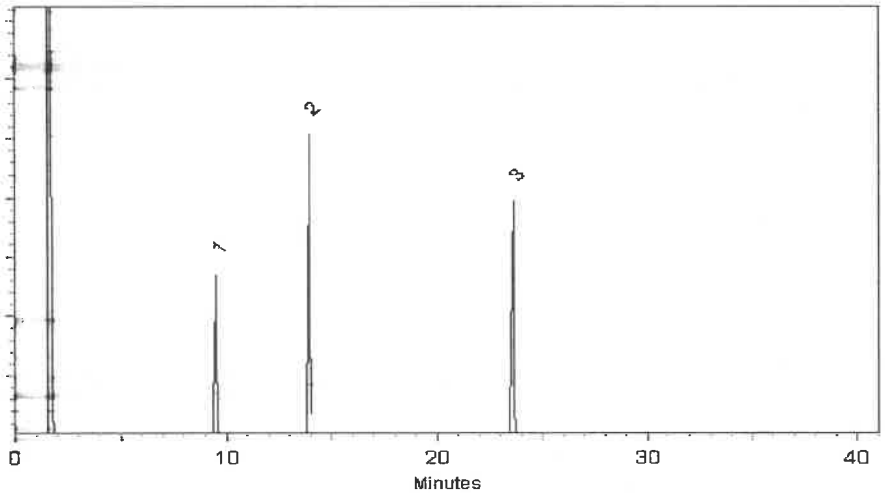
**Carrier Gas:**
hydrogen-constant pressure 10 psi.

**Temp. Program:**
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

**Inj. Temp:**
250°C

**Det. Temp:**
330°C

**Det. Type:**
FID




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

**Date Mixed:** 09-Sep-2022 **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 13-Sep-2022

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

# CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

Received by CG on 12/28/22 S10981 to S11010

**Catalog No. :** 31086 **Lot No.:** A0189418

**Description :** B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

**Container Size :** 5 mL **Pkg Amt:** > 5 mL

**Expiration Date :** August 31, 2028 **Storage:** 10°C or colder

**Handling:** Sonicate prior to use. **Ship:** Ambient

## CERTIFIED VALUES

| Elution Order | Compound | | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | |
|---|---|---|---|---|---|
| 1 | Nitrobenzene-d5 | | 5,009.8 µg/mL | +/- 29.1271 µg/mL | Gravimetric |
| | **CAS #** 4165-60-0 | (Lot PR-29940A) | | +/- 225.6421 µg/mL | Unstressed |
| | **Purity** 99% | | | +/- 250.3778 µg/mL | Stressed |
| 2 | 2-Fluorobiphenyl | | 5,026.6 µg/mL | +/- 29.2250 µg/mL | Gravimetric |
| | **CAS #** 321-60-8 | (Lot 00021384) | | +/- 226.4003 µg/mL | Unstressed |
| | **Purity** 99% | | | +/- 251.2191 µg/mL | Stressed |
| 3 | p-Terphenyl-d14 | | 5,027.3 µg/mL | +/- 29.2289 µg/mL | Gravimetric |
| | **CAS #** 1718-51-0 | (Lot PR-30504) | | +/- 226.4304 µg/mL | Unstressed |
| | **Purity** 99% | | | +/- 251.2524 µg/mL | Stressed |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

**Tech Tips:**
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

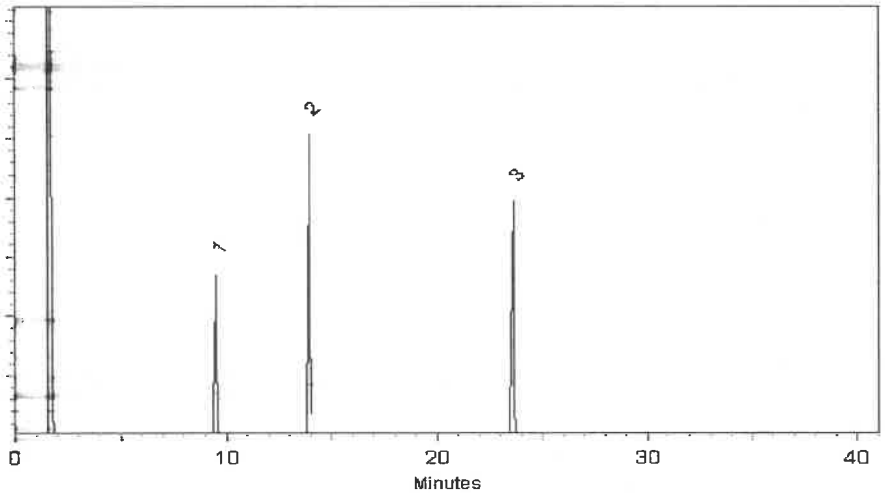
**Carrier Gas:**
hydrogen-constant pressure 10 psi.

**Temp. Program:**
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

**Inj. Temp:**
250°C

**Det. Temp:**
330°C

**Det. Type:**
FID




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

**Date Mixed:** 09-Sep-2022 **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 13-Sep-2022

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

# CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*gravimetric*

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

Received on 01/13/23 by CG S11011 to S11015

**Catalog No. :** 555872 **Lot No.:** A0193449

**Description :** Custom Pentachlorophenol Standard

Custom Pentachlorophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** January 31, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

**CERTIFIED VALUES**

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Pentachlorophenol | 87-86-5 | RP221012 | 99% | 25,050.0 µg/mL | +/- 778.6378 |

**Solvent:** Methanol
**CAS #** 67-56-1
**Purity** 99%

Russ Bookhamer - Operations Technician I

**Date Mixed:** 11-Jan-2023 **Balance:** B442140311

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

***gravimetric***

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555870 **Lot No.:** A0194698

**Description :** Custom 2,4-Dinitrophenol Standard

Custom 2,4-Dinitrophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** February 28, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

CERTIFI

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) |
|---|---|---|---|---|---|
| 1 | 2,4-Dinitrophenol | 51-28-5 | DR221221RSR | 99% | 25,195.0 µg/mL |

**Solvent:** Methanol
**CAS #** 67-56-1
**Purity** 99%

Russ Bookhamer - Operations Technician I

**Date Mixed:** 15-Feb-2023 **Balance:** B442140311

Manufactured under Restek's Registered Quality Certificate #FM 8

## tified Reference Material Notes

### es:

n date valid for unopened ampul stored in compliance with the recommended conditions.

ıty, concentration, and expiration of the CRM are based on the unopened product being stored according to the ended condition found in the storage field.

d/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, LC/MS, RI, and/or melting point.

ıds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A n factor is used to calculate the amount of compound necessary to achieve the desired concentration of the ompound in solution.

isomeric compounds is reported as the sum of the isomers.

lues are rounded to the nearest whole number.

### rtainty Value Notes:

ertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded ty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability ty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

erage factor of 2, which gives a level of confidence of approximately 95%.

ged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure inimum packaged amount can be sufficiently transferred.

### Notes:

tion is based upon gravimetric preparation using either a balance whose calibration has been verified daily T traceable weights, and/or dilutions with Class A glassware.

:

the unopened product, when stored in compliance with the recommended conditions, is guaranteed through ion displayed on the product label and certificate. Contact Restek for additional opened product stability ı, with the knowledge/understanding that open product stability is subject to the specific handling and ntal conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with dards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom m. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, ıdes complete instructions.

ssolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely

PRODUCTOS QUIMICOS MONTERREY, S.A. DE C.V.

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

# CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| PRODUCT : | SODIUM SULFATE CRYSTALS ANHYDROUS | | |
| QUALITY : | ACS (CODE RMB3375) | FORMULA : | $Na_2SO_4$ |
| SPECIFICATION NUMBER : | 6399 | RELEASE DATE: | ABR/21/2023 |
| LOT NUMBER : | 313201 | | |

| TEST | SPECIFICATIONS | LOT VALUES |
|---|---|---|
| Assay ($Na_2SO_4$) | Min. 99.0% | 99.7 % |
| pH of a 5% solution at 25°C | 5.2 - 9.2 | 6.1 |
| Insoluble matter | Max. 0.01% | 0.005 % |
| Loss on ignition | Max. 0.5% | 0.1 % |
| Chloride (Cl) | Max. 0.001% | <0.001 % |
| Nitrogen compounds (as N) | Max. 5 ppm | <5 ppm |
| Phosphate ($PO_4$) | Max. 0.001% | <0.001 % |
| Heavy metals (as Pb) | Max. 5 ppm | <5 ppm |
| Iron (Fe) | Max. 0.001% | <0.001 % |
| Calcium (Ca) | Max. 0.01% | 0.002 % |
| Magnesium (Mg) | Max. 0.005% | 0.001 % |
| Potassium (K) | Max. 0.008% | 0.003 % |
| Extraction-concentration suitability | Passes test | Passes test |
| Appearance | Passes test | Passes test |
| Identification | Passes test | Passes test |
| Solubility and foreing matter | Passes test | Passes test |
| Retained on US Standard No. 10 sieve | Max. 1% | 0.1 % |
| Retained on US Standard No. 60 sieve | Min. 94% | 97.3 % |
| Through US Standard No. 60 sieve | Max. 5% | 2.5 % |
| Through US Standard No. 100 sieve | Max. 10% | 0.1 % |

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

RG-02-01, Ed. 3

Recd. by RI on 7/24/23 E3551

VWR®

# Certificate of Analysis

## Sodium Hydroxide (Pellets)

**Material:** 0583
**Grade:** ACS GRADE
**Batch Number:** 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Pellets

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

| TEST | SPECIFICATION | ANALYSIS | DISPOSITION |
|---|---|---|---|
| Calcium | <= 0.005 % | <0.005 % | PASS |
| Chloride | <= 0.005 % | 0.002 % | PASS |
| Heavy Metals | <= 0.002 % | <0.002 % | PASS |
| Iron | <= 0.001 % | <0.001 % | PASS |
| Magnesium | <= 0.002 % | <0.002 % | PASS |
| Mercury | <= 0.1 ppm | <0.1 ppm | PASS |
| Nickel | <= 0.001 % | <0.001 % | PASS |
| Nitrogen Compounds | <= 0.001 % | <0.001 % | PASS |
| Phosphate | <= 0.001 % | <0.001 % | PASS |
| Potassium | <= 0.02 % | <0.02 % | PASS |
| Purity | >= 97.0 % | 99.2 % | PASS |
| Sodium Carbonate | <= 1.0 % | 0.5 % | PASS |
| Sulfate | <= 0.003 % | <0.003 % | PASS |

Internal ID #: 710

### Signature

We certify that this batch conforms to the specifications listed.

This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

### Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.

| | |
|---|---|
| E 3657 | E 3659 |
| E 3654 | E 3660 |

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker®

Material No.: 9254-03
Batch No.: 23H1462005
Manufactured Date: 2023-07-26
Expiration Date: 2026-07-25
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| Assay ($(CH_3)_2CO$) (by GC, corrected for water) | ≥ 99.4 % | 99.7 % |
| Color (APHA) | ≤ 10 | 5 |
| Residue after Evaporation | ≤ 1.0 ppm | 0.3 ppm |
| Substances Reducing Permanganate | Passes Test | Passes Test |
| Titrable Acid (µeq/g) | ≤ 0.3 | 0.1 |
| Titrable Base (µeq/g) | ≤ 0.6 | < 0.1 |
| Water ($H_2O$) | ≤ 0.5 % | 0.3 % |
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL) | ≤ 5 | < 1 |
| ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL) | ≤ 10 | 1 |

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd by RP on 5/23/24

E 3744

Ken Koehnlein
Sr. Manager, Quality Assurance

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker®

Material No.: 9266-A4
Batch No.: 24C0162011
Manufactured Date: 2024-01-04
Expiration Date: 2025-04-04
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL) | ≤ 5 | < 1 |
| ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL) | ≤ 10 | 2 |
| Assay ($CH_2Cl_2$) (by GC, exclusive of preservative, corrected for water) | ≥ 99.8 % | 100.0 % |
| Color (APHA) | ≤ 10 | 10 |
| Residue after Evaporation | ≤ 1.0 ppm | 0.2 ppm |
| Titrable Acid (µeq/g) | ≤ 0.3 | < 0.1 |
| Chloride (Cl) | ≤ 10 ppm | < 5 ppm |
| Water (by KF, coulometric) | ≤ 0.02 % | < 0.01 % |

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24A04224

E 3746

Ken Koehnlein
Sr. Manager, Quality Assurance

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker®

Material No.: 9254-03
Batch No.: 23H1462005
Manufactured Date: 2023-07-26
Expiration Date: 2026-07-25
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| Assay ($(CH_3)_2CO$) (by GC, corrected for water) | ≥ 99.4 % | 99.7 % |
| Color (APHA) | ≤ 10 | 5 |
| Residue after Evaporation | ≤ 1.0 ppm | 0.3 ppm |
| Substances Reducing Permanganate | Passes Test | Passes Test |
| Titrable Acid (µeq/g) | ≤ 0.3 | 0.1 |
| Titrable Base (µeq/g) | ≤ 0.6 | < 0.1 |
| Water ($H_2O$) | ≤ 0.5 % | 0.3 % |
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL) | ≤ 5 | < 1 |
| ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL) | ≤ 10 | 1 |

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RP On 5/31/24

E3753

Ken Koehnlein
Sr. Manager, Quality Assurance

PO: PO1-8886 PRODUCT CODE: SHIP DATE: 6/21/2024

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker

Material No.: 9266-A4
Batch No.: 24E2462004
Manufactured Date: 2024-04-10
Expiration Date: 2025-07-10
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL) | ≤ 5 | 3 |
| ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL) | ≤ 10 | 3 |
| Assay ($CH_2Cl_2$) (by GC, exclusive of preservative, corrected for water) | ≥ 99.8 % | 100.0 % |
| Color (APHA) | ≤ 10 | 5 |
| Residue after Evaporation | ≤ 1.0 ppm | 0.1 ppm |
| Titrable Acid (µeq/g) | ≤ 0.3 | < 0.1 |
| Chloride (Cl) | ≤ 10 ppm | 5 ppm |
| Water (by KF, coulometric) | ≤ 0.02 % | < 0.01 % |

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24D10725

E 3768

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

PO: PO1-9448 PRODUCT CODE: SHIP DATE: 7/16/2024

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker®

Material No.: 9266-A4
Batch No.: 24F1062004
Manufactured Date: 2024-04-15
Expiration Date: 2025-07-15
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL) | ≤ 5 | < 1 |
| ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL) | ≤ 10 | 7 |
| Assay ($CH_2Cl_2$) (by GC, exclusive of preservative, corrected for water) | ≥ 99.8 % | 100.0 % |
| Color (APHA) | ≤ 10 | 5 |
| Residue after Evaporation | ≤ 1.0 ppm | 0.1 ppm |
| Titrable Acid (µeq/g) | ≤ 0.3 | < 0.1 |
| Chloride (Cl) | ≤ 10 ppm | < 5 ppm |
| Water (by KF, coulometric) | ≤ 0.02 % | < 0.01 % |

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24D15750

E 3786

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

M3033-38-33-40
no

avantor™ | J.T.Baker®

Material No.: 9673-33
Batch No.: 0000250349
Manufactured Date: 2019/12/17
Retest Date: 2024/12/15
Revision No: 1

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| ACS - Assay ($H_2SO_4$) | 95.0 - 98.0 % | 96.5 |
| Appearance | Passes Test | PT |
| ACS - Color (APHA) | <= 10 | 5 |
| ACS - Residue after Ignition | <= 3 ppm | 1 |
| ACS - Substances Reducing Permanganate (as $SO_2$) | <= 2 ppm | < 2 |
| Ammonium ($NH_4$) | <= 1 ppm | < 1 |
| Chloride (Cl) | <= 0.1 ppm | < 0.1 |
| Nitrate ($NO_3$) | <= 0.2 ppm | < 0.1 |
| Phosphate ($PO_4$) | <= 0.5 ppm | < 0.1 |
| Trace Impurities - Aluminum (Al) | <= 30.0 ppb | 0.2 |
| Arsenic and Antimony (as As) | <= 4 ppb | < 2 |
| Trace Impurities - Barium (Ba) | <= 10.0 ppb | < 1.0 |
| Trace Impurities - Beryllium (Be) | <= 10.0 ppb | < 1.0 |
| Trace Impurities - Bismuth (Bi) | <= 10.0 ppb | < 1.0 |
| Trace Impurities - Boron (B) | <= 10.0 ppb | < 5.0 |
| Trace Impurities - Cadmium (Cd) | <= 2.0 ppb | < 0.3 |
| Trace Impurities - Calcium (Ca) | <= 50.0 ppb | 2.9 |
| Trace Impurities - Chromium (Cr) | <= 6.0 ppb | < 0.4 |
| Trace Impurities - Cobalt (Co) | <= 0.5 ppb | < 0.3 |
| Trace Impurities - Copper (Cu) | <= 1.0 ppb | < 0.1 |
| Trace Impurities - Gallium (Ga) | <= 10.0 ppb | < 1.0 |
| Trace Impurities - Germanium (Ge) | <= 10.0 ppb | < 10.0 |
| Trace Impurities - Gold (Au) | <= 10.0 ppb | < 0.2 |
| Heavy Metals (as Pb) | <= 500 ppb | < 100 |

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Material No.: 9673-33
Batch No.: 0000250349

| Test | Specification | Result |
|---|---|---|
| Trace Impurities - Iron (Fe) | <= 50.0 ppb | 4.1 |
| Trace Impurities - Lead (Pb) | <= 0.5 ppb | < 0.5 |
| Trace Impurities - Lithium (Li) | <= 10.0 ppb | < 1.0 |
| Trace Impurities - Magnesium (Mg) | <= 7.0 ppb | 0.4 |
| Trace Impurities - Manganese (Mn) | <= 1.0 ppb | < 0.4 |
| Trace Impurities - Mercury (Hg) | <= 0.5 ppb | < 0.1 |
| Trace Impurities - Molybdenum (Mo) | <= 10.0 ppb | < 5.0 |
| Trace Impurities - Nickel (Ni) | <= 2.0 ppb | < 0.3 |
| Trace Impurities - Niobium (Nb) | <= 10.0 ppb | < 1.0 |
| Trace Impurities - Potassium (K) | <= 500.0 ppb | < 2.0 |
| Trace Impurities - Selenium (Se) | <= 50.0 ppb | 22.9 |
| Trace Impurities - Silicon (Si) | <= 100.0 ppb | < 10.0 |
| Trace Impurities - Silver (Ag) | <= 1.0 ppb | < 0.3 |
| Trace Impurities - Sodium (Na) | <= 500.0 ppb | 2.7 |
| Trace Impurities - Strontium (Sr) | <= 5.0 ppb | < 0.2 |
| Trace Impurities - Tantalum (Ta) | <= 10.0 ppb | < 5.0 |
| Trace Impurities - Thallium (Tl) | <= 20.0 ppb | < 5.0 |
| Trace Impurities - Tin (Sn) | <= 5.0 ppb | < 0.8 |
| Trace Impurities - Titanium (Ti) | <= 10.0 ppb | < 1.0 |
| Trace Impurities - Vanadium (V) | <= 10.0 ppb | < 1.0 |
| Trace Impurities - Zinc (Zn) | <= 5.0 ppb | 0.3 |
| Trace Impurities - Zirconium (Zr) | <= 10.0 ppb | < 1.0 |

For Laboratory, Research or Manufacturing Use

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

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5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

# Certificate of Analysis

Rev 0 

| Catalog No.: | Lot No.: | Storage: | Solvent: | Exp. Date: | Description: |
|---|---|---|---|---|---|
| Z-110094-02 | 503442 | ≤ -10 °C | Methylene Chloride | 8/26/2024 | CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml |

| Compound | CAS No. | Purity (%) | Compound Lot No. | Concentration, mg/L |
|---|---|---|---|---|
| 1,2-dichlorobenzene-$d_4$ | 2199-69-1 | 99.7 | 247.29.3P | 5052 ± 122.61 |
| 2-fluorobiphenyl | 321-60-8 | 99.7 | 8.7.1.1P | 5005 ± 121.47 |
| nitrobenzene-$d_5$ | 4165-60-0 | 100 | 7.9.2P | 5040 ± 122.21 |
| p-terphenyl-$d_{14}$ | 1718-51-0 | 99.6 | 9.12.9P | 5027 ± 122 |

*Not a certified value

Certified By: Joanna Radu

Joanna Radu
**Chemist**

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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# Certificate of Analysis

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**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555223 **Lot No.:** A0201940

**Description :** Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** September 30, 2025 **Storage:** 10°C or colder

**Handling:** This product is photosensitive. **Ship:** Ambient

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CERTIFIED VALUES

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 3,3'-Dichlorobenzidine | 91-94-1 | S230321RSR | 99% | 1,001.0 µg/mL | +/- 22.9799 |
| 2 | Atrazine | 1912-24-9 | 5FYWL | 99% | 1,010.0 µg/mL | +/- 23.1865 |
| 3 | Benzidine | 92-87-5 | S221205RSR | 99% | 1,008.0 µg/mL | +/- 23.1406 |
| 4 | epsilon-Caprolactam | 105-60-2 | I16X016 | 99% | 1,008.0 µg/mL | +/- 23.1406 |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

Sam Moodler - Operations Tech I

REVIEWED
By Jennifer Pollino at 7:10 am, Sep 13, 2023

**Date Mixed:** 13-Sep-2023 **Balance:** B345965662

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

01-Nov-2022 rev.

RESTEK

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555223 **Lot No.:** A0201940

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**Description :** Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** September 30, 2025 **Storage:** 10°C or colder

**Handling:** This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 3,3'-Dichlorobenzidine | 91-94-1 | S230321RSR | 99% | 1,001.0 µg/mL | +/- 22.9799 |
| 2 | Atrazine | 1912-24-9 | 5FYWL | 99% | 1,010.0 µg/mL | +/- 23.1865 |
| 3 | Benzidine | 92-87-5 | S221205RSR | 99% | 1,008.0 µg/mL | +/- 23.1406 |
| 4 | epsilon-Caprolactam | 105-60-2 | I16X016 | 99% | 1,008.0 µg/mL | +/- 23.1406 |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

Sam Moodler - Operations Tech I

REVIEWED
By Jennifer Pollino at 7:10 am, Sep 13, 2023

**Date Mixed:** 13-Sep-2023 **Balance:** B345965662

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

01-Nov-2022 rev.

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## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555223 **Lot No.:** A0201940

**Description :** Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** September 30, 2025 **Storage:** 10°C or colder

**Handling:** This product is photosensitive. **Ship:** Ambient

511539 ↓ 511568 } 7.6 / 0911

CERTIFIED VALUES

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 3,3'-Dichlorobenzidine | 91-94-1 | S230321RSR | 99% | 1,001.0 µg/mL | +/- 22.9799 |
| 2 | Atrazine | 1912-24-9 | 5FYWL | 99% | 1,010.0 µg/mL | +/- 23.1865 |
| 3 | Benzidine | 92-87-5 | S221205RSR | 99% | 1,008.0 µg/mL | +/- 23.1406 |
| 4 | epsilon-Caprolactam | 105-60-2 | I16X016 | 99% | 1,008.0 µg/mL | +/- 23.1406 |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

Sam Moodler - Operations Tech I

REVIEWED
By Jennifer Pollino at 7:10 am, Sep 13, 2023

**Date Mixed:** 13-Sep-2023 **Balance:** B345965662

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

01-Nov-2022 rev.

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## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

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  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

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### Handling Notes:

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**Catalog No. :** 555223 **Lot No.:** A0201940

**Description :** Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** September 30, 2025 **Storage:** 10°C or colder

**Handling:** This product is photosensitive. **Ship:** Ambient

511539 ↓ 511568 — 7.6 / 0911

CERTIFIED VALUES

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 3,3'-Dichlorobenzidine | 91-94-1 | S230321RSR | 99% | 1,001.0 µg/mL | +/- 22.9799 |
| 2 | Atrazine | 1912-24-9 | 5FYWL | 99% | 1,010.0 µg/mL | +/- 23.1865 |
| 3 | Benzidine | 92-87-5 | S221205RSR | 99% | 1,008.0 µg/mL | +/- 23.1406 |
| 4 | epsilon-Caprolactam | 105-60-2 | I16X016 | 99% | 1,008.0 µg/mL | +/- 23.1406 |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

Sam Moodler - Operations Tech I

REVIEWED
By Jennifer Pollino at 7:10 am, Sep 13, 2023

**Date Mixed:** 13-Sep-2023 **Balance:** B345965662

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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## General Certified Reference Material Notes

### Expiration Notes:

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  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

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**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

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**Catalog No. :** 555223 **Lot No.:** A0201940

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**Description :** Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** September 30, 2025 **Storage:** 10°C or colder

**Handling:** This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 3,3'-Dichlorobenzidine | 91-94-1 | S230321RSR | 99% | 1,001.0 µg/mL | +/- 22.9799 |
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| 3 | Benzidine | 92-87-5 | S221205RSR | 99% | 1,008.0 µg/mL | +/- 23.1406 |
| 4 | epsilon-Caprolactam | 105-60-2 | I16X016 | 99% | 1,008.0 µg/mL | +/- 23.1406 |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

Sam Moodler - Operations Tech I

REVIEWED
By Jennifer Pollino at 7:10 am, Sep 13, 2023

**Date Mixed:** 13-Sep-2023 **Balance:** B345965662

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

01-Nov-2022 rev.

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## General Certified Reference Material Notes

### Expiration Notes:

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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

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ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555223 **Lot No.:** A0201940

**Description :** Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** September 30, 2025 **Storage:** 10°C or colder

**Handling:** This product is photosensitive. **Ship:** Ambient

511539 ↓ 511568 — 7.6 / 0911

CERTIFIED VALUES

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 3,3'-Dichlorobenzidine | 91-94-1 | S230321RSR | 99% | 1,001.0 µg/mL | +/- 22.9799 |
| 2 | Atrazine | 1912-24-9 | 5FYWL | 99% | 1,010.0 µg/mL | +/- 23.1865 |
| 3 | Benzidine | 92-87-5 | S221205RSR | 99% | 1,008.0 µg/mL | +/- 23.1406 |
| 4 | epsilon-Caprolactam | 105-60-2 | I16X016 | 99% | 1,008.0 µg/mL | +/- 23.1406 |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

Sam Moodler - Operations Tech I

REVIEWED By Jennifer Pollino at 7:10 am, Sep 13, 2023

**Date Mixed:** 13-Sep-2023 **Balance:** B345965662

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

01-Nov-2022 rev.

RESTEK

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
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Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*gravimetric*

ilac-MRA
ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA
ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555223 **Lot No.:** A0201940

**Description :** Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** September 30, 2025 **Storage:** 10°C or colder

**Handling:** This product is photosensitive. **Ship:** Ambient

511539
↓
511568

CERTIFIED VALUES

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 3,3'-Dichlorobenzidine | 91-94-1 | S230321RSR | 99% | 1,001.0 µg/mL | +/- 22.9799 |
| 2 | Atrazine | 1912-24-9 | 5FYWL | 99% | 1,010.0 µg/mL | +/- 23.1865 |
| 3 | Benzidine | 92-87-5 | S221205RSR | 99% | 1,008.0 µg/mL | +/- 23.1406 |
| 4 | epsilon-Caprolactam | 105-60-2 | I16X016 | 99% | 1,008.0 µg/mL | +/- 23.1406 |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

Sam Moodler - Operations Tech I

REVIEWED
By Jennifer Pollino at 7:10 am, Sep 13, 2023

**Date Mixed:** 13-Sep-2023 **Balance:** B345965662

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

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$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*gravimetric*

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01
ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555223 **Lot No.:** A0201940

511539 ↓ 511568 } 7.6 / 0911

**Description :** Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** September 30, 2025 **Storage:** 10°C or colder

**Handling:** This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 3,3'-Dichlorobenzidine | 91-94-1 | S230321RSR | 99% | 1,001.0 µg/mL | +/- 22.9799 |
| 2 | Atrazine | 1912-24-9 | 5FYWL | 99% | 1,010.0 µg/mL | +/- 23.1865 |
| 3 | Benzidine | 92-87-5 | S221205RSR | 99% | 1,008.0 µg/mL | +/- 23.1406 |
| 4 | epsilon-Caprolactam | 105-60-2 | I16X016 | 99% | 1,008.0 µg/mL | +/- 23.1406 |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

Sam Moodler - Operations Tech I

REVIEWED
By Jennifer Pollino at 7:10 am, Sep 13, 2023

**Date Mixed:** 13-Sep-2023 **Balance:** B345965662

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

01-Nov-2022 rev.

RESTEK

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

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- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*gravimetric*

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555223 **Lot No.:** A0201940

**Description :** Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** September 30, 2025 **Storage:** 10°C or colder

**Handling:** This product is photosensitive. **Ship:** Ambient

511539 ↓ 511568 — 7.6 / 0911

CERTIFIED VALUES

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 3,3'-Dichlorobenzidine | 91-94-1 | S230321RSR | 99% | 1,001.0 µg/mL | +/- 22.9799 |
| 2 | Atrazine | 1912-24-9 | 5FYWL | 99% | 1,010.0 µg/mL | +/- 23.1865 |
| 3 | Benzidine | 92-87-5 | S221205RSR | 99% | 1,008.0 µg/mL | +/- 23.1406 |
| 4 | epsilon-Caprolactam | 105-60-2 | I16X016 | 99% | 1,008.0 µg/mL | +/- 23.1406 |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

Sam Moodler - Operations Tech I

REVIEWED By Jennifer Pollino at 7:10 am, Sep 13, 2023

**Date Mixed:** 13-Sep-2023 **Balance:** B345965662

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

01-Nov-2022 rev.

RESTEK

## General Certified Reference Material Notes

### Expiration Notes:

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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

***chromatographic plus***

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31853 **Lot No.:** A0196453

**Description :** 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** March 31, 2028 **Storage:** 0°C or colder

**Ship:** Ambient

S11749 ↓ S11794 RC 11/30/23

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 1,4-Dioxane | 123-91-1 | SHBN3770 | 99% | 2,013.0 µg/mL | +/- 25.0521 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

# Quality Confirmation Test

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

**Carrier Gas:**
hydrogen-constant flow 1.8 mL/min.

**Temp. Program:**
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

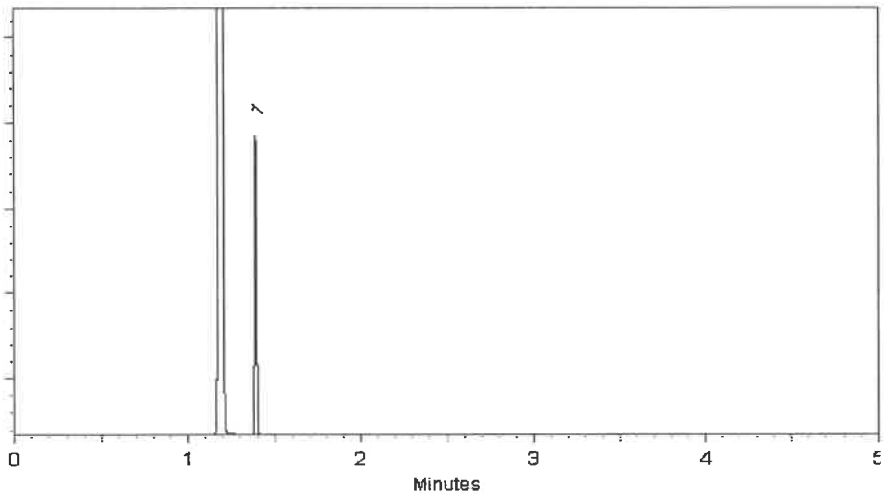
**Inj. Temp:**
250°C

**Det. Temp:**
340°C

**Det. Type:**
FID

**Split Vent:**
100 ml/min.

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

**Date Mixed:** 30-Mar-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 31-Mar-2023

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic plus*

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31853 **Lot No.:** A0196453

**Description :** 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** March 31, 2028 **Storage:** 0°C or colder

**Ship:** Ambient

S11749 ↓ S11794 RC 11/30/23

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 1,4-Dioxane | 123-91-1 | SHBN3770 | 99% | 2,013.0 µg/mL | +/- 25.0521 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

# Quality Confirmation Test

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

**Carrier Gas:**
hydrogen-constant flow 1.8 mL/min.

**Temp. Program:**
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

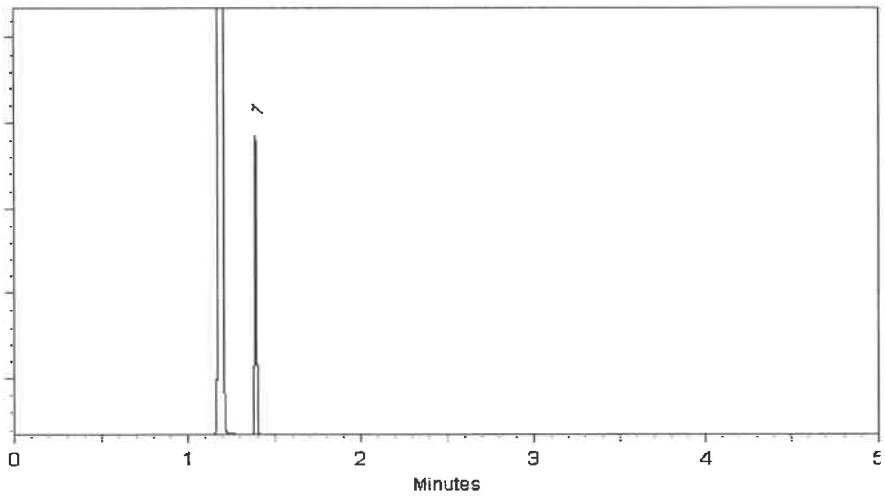
**Inj. Temp:**
250°C

**Det. Temp:**
340°C

**Det. Type:**
FID

**Split Vent:**
100 ml/min.

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

**Date Mixed:** 30-Mar-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 31-Mar-2023

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

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- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

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### Handling Notes:

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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

***chromatographic plus***

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31853 **Lot No.:** A0196453

**Description :** 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** March 31, 2028 **Storage:** 0°C or colder

**Ship:** Ambient

S11749 ↓ S11794 RC 11/30/23

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 1,4-Dioxane | 123-91-1 | SHBN3770 | 99% | 2,013.0 µg/mL | +/- 25.0521 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

# Quality Confirmation Test

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

**Carrier Gas:**
hydrogen-constant flow 1.8 mL/min.

**Temp. Program:**
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

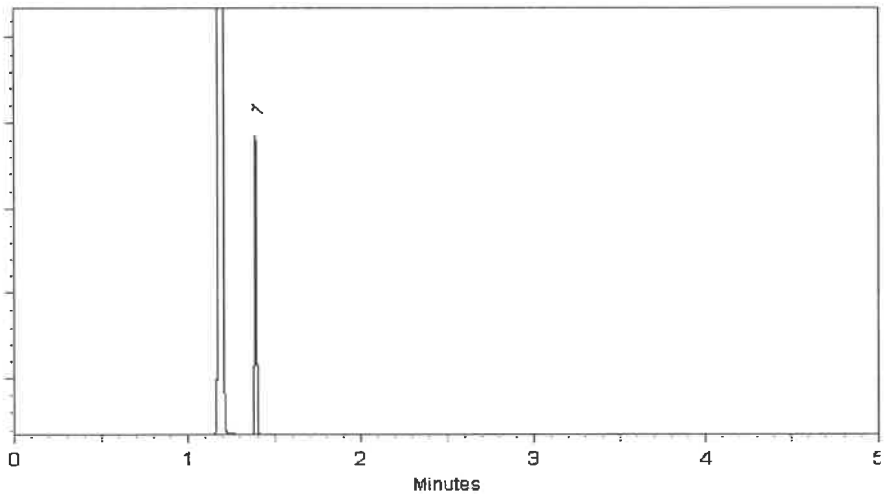
**Inj. Temp:**
250°C

**Det. Temp:**
340°C

**Det. Type:**
FID

**Split Vent:**
100 ml/min.

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

**Date Mixed:** 30-Mar-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 31-Mar-2023

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic plus*

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31853 **Lot No.:** A0196453

**Description :** 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** March 31, 2028 **Storage:** 0°C or colder

**Ship:** Ambient

S11749 ↓ S11794 RC 11/30/23

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 1,4-Dioxane | 123-91-1 | SHBN3770 | 99% | 2,013.0 µg/mL | +/- 25.0521 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

# Quality Confirmation Test

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

**Carrier Gas:**
hydrogen-constant flow 1.8 mL/min.

**Temp. Program:**
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

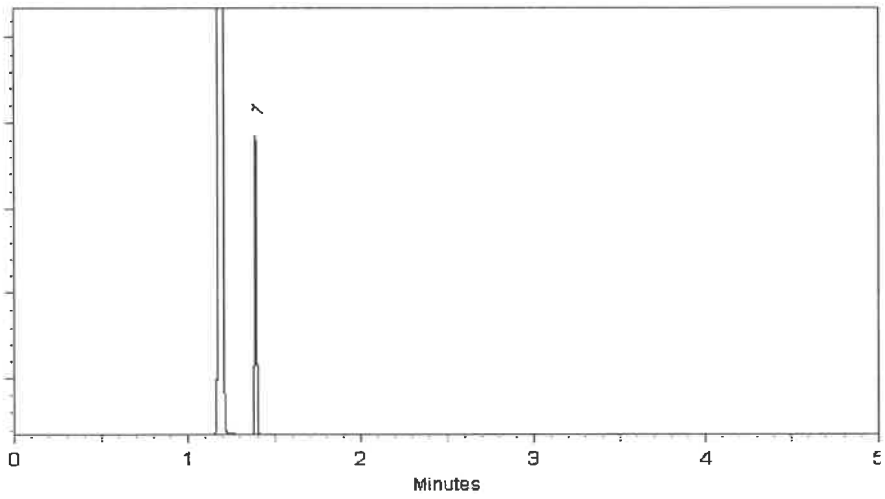
**Inj. Temp:**
250°C

**Det. Temp:**
340°C

**Det. Type:**
FID

**Split Vent:**
100 ml/min.

**Inj. Vol**
1µl

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Sam Moodler - Operations Tech I

**Date Mixed:** 30-Mar-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 31-Mar-2023

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

## General Certified Reference Material Notes

### Expiration Notes:

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$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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**Catalog No. :** 31853 **Lot No.:** A0196453

S11749 ↓ S11794 RC 11/30/23

**Description :** 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** March 31, 2028 **Storage:** 0°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 1,4-Dioxane | 123-91-1 | SHBN3770 | 99% | 2,013.0 µg/mL | +/- 25.0521 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

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@ 9.6°C/min. (hold 2.86 min.)

**Inj. Temp:**
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**Det. Temp:**
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**Det. Type:**
FID

**Split Vent:**
100 ml/min.

**Inj. Vol**
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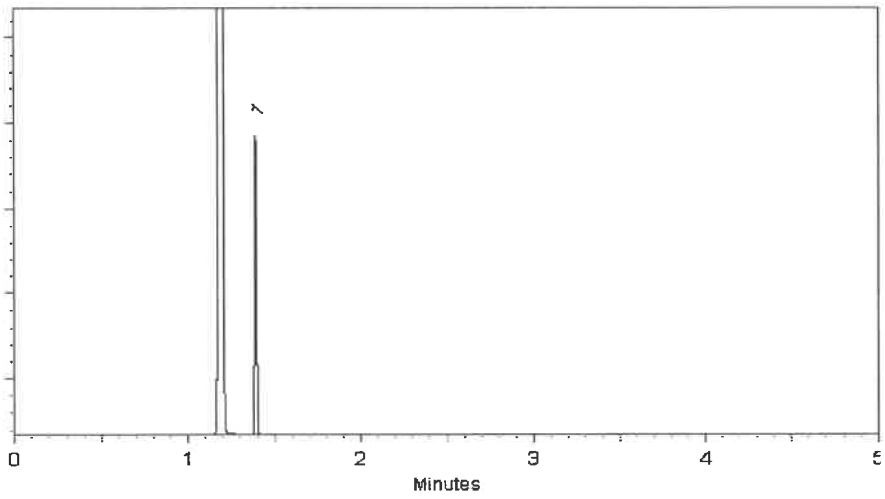


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Sam Moodler - Operations Tech I

**Date Mixed:** 30-Mar-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 31-Mar-2023

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

## General Certified Reference Material Notes

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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

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  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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CERTIFIED REFERENCE MATERIAL

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Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31850 **Lot No.:** A0197982

**Description :** 8270 MegaMix®

8270 MegaMix® 500-1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** November 30, 2024 **Storage:** 0°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

S11877 ↓ S11906 RC 11/30/23

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Pyridine | 110-86-1 | SHBN7324 | 99% | 1,006.9 µg/mL | +/- 36.6352 |
| 2 | N-Nitrosodimethylamine | 62-75-9 | 230209JLM | 99% | 1,007.4 µg/mL | +/- 36.6514 |
| 3 | Phenol | 108-95-2 | MKCK1120 | 99% | 1,005.3 µg/mL | +/- 36.5746 |
| 4 | Aniline | 62-53-3 | X22F726 | 99% | 1,004.6 µg/mL | +/- 36.5503 |
| 5 | Bis(2-chloroethyl)ether | 111-44-4 | SHBL6942 | 99% | 1,005.1 µg/mL | +/- 36.5665 |
| 6 | 2-Chlorophenol | 95-57-8 | STBJ3909 | 99% | 1,007.1 µg/mL | +/- 36.6392 |
| 7 | 1,3-Dichlorobenzene | 541-73-1 | BCBZ7498 | 99% | 1,006.7 µg/mL | +/- 36.6251 |
| 8 | 1,4-Dichlorobenzene | 106-46-7 | MKBS7929V | 99% | 1,005.6 µg/mL | +/- 36.5867 |
| 9 | Benzyl alcohol | 100-51-6 | SHBK5943 | 99% | 1,005.4 µg/mL | +/- 36.5786 |
| 10 | 1,2-Dichlorobenzene | 95-50-1 | SHBN3835 | 99% | 1,003.9 µg/mL | +/- 36.5240 |
| 11 | 2-Methylphenol (o-cresol) | 95-48-7 | SHBN7598 | 99% | 1,002.3 µg/mL | +/- 36.4654 |
| 12 | 2,2'-oxybis(1-chloropropane) | 108-60-1 | 230329JLM | 99% | 1,004.3 µg/mL | +/- 36.5402 |
| 13 | 3-Methylphenol (m-cresol) | 108-39-4 | STBJ0710 | 99% | 502.1 µg/mL | +/- 18.2671 |
| 14 | 4-Methylphenol (p-cresol) | 106-44-5 | SHBN3411 | 99% | 501.9 µg/mL | +/- 18.2631 |
| 15 | N-Nitroso-di-n-propylamine | 621-64-7 | N63MG | 99% | 1,004.0 µg/mL | +/- 36.5281 |
| 16 | Hexachloroethane | 67-72-1 | QTORH | 99% | 1,006.1 µg/mL | +/- 36.6029 |
| 17 | Nitrobenzene | 98-95-3 | 10224044 | 99% | 1,003.1 µg/mL | +/- 36.4957 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 18 | Isophorone | 78-59-1 | MKCC9506 | 99% | 1,003.8 | µg/mL | +/- 36.5220 |
| 19 | 2-Nitrophenol | 88-75-5 | RP230509C | 99% | 1,005.8 | µg/mL | +/- 36.5948 |
| 20 | 2,4-Dimethylphenol | 105-67-9 | XW5GK | 99% | 1,004.2 | µg/mL | +/- 36.5341 |
| 21 | Bis(2-chloroethoxy)methane | 111-91-1 | 13670200 | 99% | 1,006.3 | µg/mL | +/- 36.6130 |
| 22 | 2,4-Dichlorophenol | 120-83-2 | BCBZ6787 | 99% | 1,004.0 | µg/mL | +/- 36.5281 |
| 23 | 1,2,4-Trichlorobenzene | 120-82-1 | SHBM0526 | 99% | 1,007.1 | µg/mL | +/- 36.6413 |
| 24 | Naphthalene | 91-20-3 | MKCH0219 | 99% | 1,006.7 | µg/mL | +/- 36.6271 |
| 25 | 4-Chloroaniline | 106-47-8 | WXBC4601V | 99% | 1,005.4 | µg/mL | +/- 36.5806 |
| 26 | Hexachlorobutadiene | 87-68-3 | X05J | 99% | 1,006.4 | µg/mL | +/- 36.6170 |
| 27 | 4-Chloro-3-methylphenol | 59-50-7 | BCCD4461 | 99% | 1,004.7 | µg/mL | +/- 36.5543 |
| 28 | 2-Methylnaphthalene | 91-57-6 | STBK0259 | 96% | 1,002.3 | µg/mL | +/- 36.4679 |
| 29 | 1-Methylnaphthalene | 90-12-0 | 5234.00-3 | 99% | 1,000.0 | µg/mL | +/- 36.3825 |
| 30 | Hexachlorocyclopentadiene | 77-47-4 | 0012019 | 99% | 1,006.1 | µg/mL | +/- 36.6049 |
| 31 | 2,4,6-Trichlorophenol | 88-06-2 | STBJ5914 | 99% | 1,004.9 | µg/mL | +/- 36.5604 |
| 32 | 2,4,5-Trichlorophenol | 95-95-4 | FHN01 | 98% | 1,006.5 | µg/mL | +/- 36.6176 |
| 33 | 2-Chloronaphthalene | 91-58-7 | RPN7O | 99% | 1,004.4 | µg/mL | +/- 36.5422 |
| 34 | 2-Nitroaniline | 88-74-4 | RP230509A | 99% | 1,002.3 | µg/mL | +/- 36.4654 |
| 35 | 1,4-Dinitrobenzene | 100-25-4 | RP230512A | 99% | 1,001.5 | µg/mL | +/- 36.4371 |
| 36 | Acenaphthylene | 208-96-8 | L10L | 95% | 1,003.4 | µg/mL | +/- 36.5066 |
| 37 | 1,3-Dinitrobenzene | 99-65-0 | 1-DXX-24-1 | 99% | 1,004.8 | µg/mL | +/- 36.5564 |
| 38 | Dimethylphthalate | 131-11-3 | 10117699 | 99% | 1,004.7 | µg/mL | +/- 36.5543 |
| 39 | 2,6-Dinitrotoluene | 606-20-2 | BCCG1833 | 99% | 1,006.8 | µg/mL | +/- 36.6312 |
| 40 | 1,2-Dinitrobenzene | 528-29-0 | RP230428 | 99% | 1,006.4 | µg/mL | +/- 36.6170 |
| 41 | Acenaphthene | 83-32-9 | MKCR7169 | 99% | 1,000.0 | µg/mL | +/- 36.3825 |
| 42 | 3-Nitroaniline | 99-09-2 | MKCH5457 | 99% | 1,004.8 | µg/mL | +/- 36.5584 |
| 43 | 2,4-Dinitrophenol | 51-28-5 | DR230417RSR | 99% | 1,005.8 | µg/mL | +/- 36.5948 |
| 44 | Dibenzofuran | 132-64-9 | MKCN1772 | 99% | 1,004.3 | µg/mL | +/- 36.5402 |
| 45 | 2,4-Dinitrotoluene | 121-14-2 | MKAA0690V | 99% | 1,005.8 | µg/mL | +/- 36.5928 |
| 46 | 4-Nitrophenol | 100-02-7 | RP230511A | 99% | 1,005.8 | µg/mL | +/- 36.5948 |
| 47 | 2,3,4,6-Tetrachlorophenol | 58-90-2 | PR-30126 | 99% | 1,005.9 | µg/mL | +/- 36.5988 |
| 48 | 2,3,5,6-Tetrachlorophenol | 935-95-5 | RP230513 | 99% | 1,004.9 | µg/mL | +/- 36.5624 |
| 49 | Fluorene | 86-73-7 | 10236068 | 99% | 1,005.4 | µg/mL | +/- 36.5806 |
| 50 | 4-Chlorophenyl phenyl ether | 7005-72-3 | MKCQ0984 | 99% | 1,004.3 | µg/mL | +/- 36.5382 |
| 51 | Diethylphthalate | 84-66-2 | BCCD3396 | 99% | 1,007.1 | µg/mL | +/- 36.6392 |
| 52 | 4-Nitroaniline | 100-01-6 | RP220906 | 99% | 1,005.3 | µg/mL | +/- 36.5766 |
| 53 | 4,6-Dinitro-2-methylphenol (Dinitro-o-cresol) | 534-52-1 | 230505JLM | 99% | 1,003.8 | µg/mL | +/- 36.5200 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 54 | Diphenylamine | 122-39-4 | MKCH1042 | 99% | 1,002.5 | µg/mL | +/- 36.4735 |
| 55 | Azobenzene | 103-33-3 | BCCG7339 | 98% | 1,003.5 | µg/mL | +/- 36.5106 |
| 56 | 4-Bromophenyl phenyl ether | 101-55-3 | STBH6361 | 99% | 1,005.6 | µg/mL | +/- 36.5847 |
| 57 | Hexachlorobenzene | 118-74-1 | 14257500 | 99% | 1,005.9 | µg/mL | +/- 36.5988 |
| 58 | Pentachlorophenol | 87-86-5 | RP230504 | 99% | 1,004.2 | µg/mL | +/- 36.5362 |
| 59 | Phenanthrene | 85-01-8 | MKCQ8876 | 99% | 1,004.1 | µg/mL | +/- 36.5321 |
| 60 | Anthracene | 120-12-7 | MKCR0570 | 99% | 1,008.3 | µg/mL | +/- 36.6857 |
| 61 | Carbazole | 86-74-8 | 14351100 | 99% | 1,005.1 | µg/mL | +/- 36.5665 |
| 62 | Di-n-butylphthalate | 84-74-2 | MKCN4337 | 99% | 1,006.4 | µg/mL | +/- 36.6170 |
| 63 | Fluoranthene | 206-44-0 | MKCQ4728 | 99% | 1,003.7 | µg/mL | +/- 36.5159 |
| 64 | Pyrene | 129-00-0 | BCCG7845 | 99% | 1,004.3 | µg/mL | +/- 36.5382 |
| 65 | Benzyl butyl phthalate | 85-68-7 | X12I018 | 99% | 1,003.4 | µg/mL | +/- 36.5058 |
| 66 | Bis(2-ethylhexyl)adipate | 103-23-1 | MKCM1988 | 99% | 1,003.4 | µg/mL | +/- 36.5079 |
| 67 | Benz(a)anthracene | 56-55-3 | 0012022BAA | 97% | 1,004.9 | µg/mL | +/- 36.5624 |
| 68 | Chrysene | 218-01-9 | RP230512B | 99% | 1,006.2 | µg/mL | +/- 36.6089 |
| 69 | Bis(2-ethylhexyl)phthalate | 117-81-7 | MKCQ3468 | 99% | 1,003.8 | µg/mL | +/- 36.5220 |
| 70 | Di-n-octyl phthalate | 117-84-0 | 13994100 | 99% | 1,004.2 | µg/mL | +/- 36.5341 |
| 71 | Benzo(b)fluoranthene | 205-99-2 | 012013B | 99% | 1,008.4 | µg/mL | +/- 36.6877 |
| 72 | Benzo(k)fluoranthene | 207-08-9 | 012022K | 99% | 1,004.1 | µg/mL | +/- 36.5301 |
| 73 | Benzo(a)pyrene | 50-32-8 | J6IUE | 99% | 1,006.4 | µg/mL | +/- 36.6170 |
| 74 | Indeno(1,2,3-cd)pyrene | 193-39-5 | 12-JKL-118-9 | 97% | 1,002.0 | µg/mL | +/- 36.4557 |
| 75 | Dibenz(a,h)anthracene | 53-70-3 | ER032211-01 | 99% | 1,006.1 | µg/mL | +/- 36.6029 |
| 76 | Benzo(g,h,i)perylene | 191-24-2 | RP230511B | 98% | 1,006.8 | µg/mL | +/- 36.6295 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

# Quality Confirmation Test

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

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hydrogen-constant flow 1.8 mL/min.

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@ 9.6°C/min. (hold 2.86 min.)

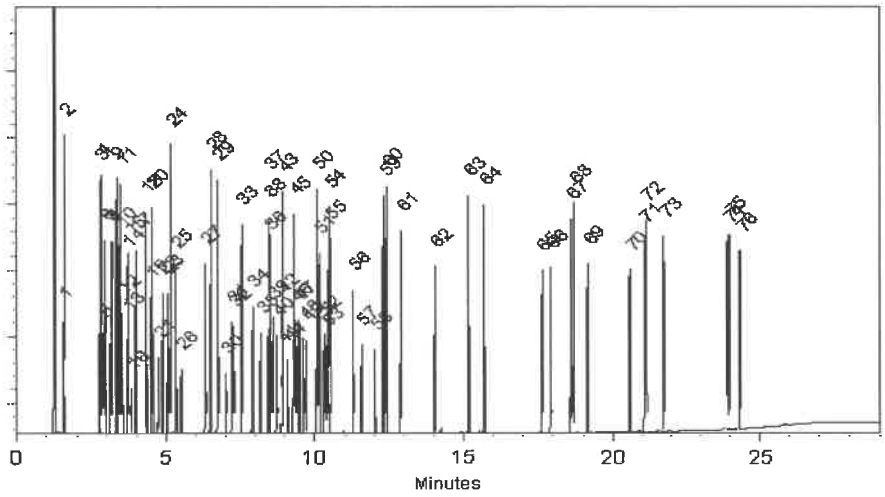
**Inj. Temp:**
250°C

**Det. Temp:**
340°C

**Det. Type:**
FID

**Split Vent:**
100 ml/min.

**Inj. Vol**
1µl

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Tom Suckar - Mix Technician

**Date Mixed:** 11-May-2023 **Balance Serial #** 1128353505

Christie Mills - Operations Tech II - ARM QC

**Date Passed:** 18-May-2023

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

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Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31850 **Lot No.:** A0197982

**Description :** 8270 MegaMix®

8270 MegaMix® 500-1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** November 30, 2024 **Storage:** 0°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

S11877 ↓ S11906 RC 11/30/23

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Pyridine | 110-86-1 | SHBN7324 | 99% | 1,006.9 µg/mL | +/- 36.6352 |
| 2 | N-Nitrosodimethylamine | 62-75-9 | 230209JLM | 99% | 1,007.4 µg/mL | +/- 36.6514 |
| 3 | Phenol | 108-95-2 | MKCK1120 | 99% | 1,005.3 µg/mL | +/- 36.5746 |
| 4 | Aniline | 62-53-3 | X22F726 | 99% | 1,004.6 µg/mL | +/- 36.5503 |
| 5 | Bis(2-chloroethyl)ether | 111-44-4 | SHBL6942 | 99% | 1,005.1 µg/mL | +/- 36.5665 |
| 6 | 2-Chlorophenol | 95-57-8 | STBJ3909 | 99% | 1,007.1 µg/mL | +/- 36.6392 |
| 7 | 1,3-Dichlorobenzene | 541-73-1 | BCBZ7498 | 99% | 1,006.7 µg/mL | +/- 36.6251 |
| 8 | 1,4-Dichlorobenzene | 106-46-7 | MKBS7929V | 99% | 1,005.6 µg/mL | +/- 36.5867 |
| 9 | Benzyl alcohol | 100-51-6 | SHBK5943 | 99% | 1,005.4 µg/mL | +/- 36.5786 |
| 10 | 1,2-Dichlorobenzene | 95-50-1 | SHBN3835 | 99% | 1,003.9 µg/mL | +/- 36.5240 |
| 11 | 2-Methylphenol (o-cresol) | 95-48-7 | SHBN7598 | 99% | 1,002.3 µg/mL | +/- 36.4654 |
| 12 | 2,2'-oxybis(1-chloropropane) | 108-60-1 | 230329JLM | 99% | 1,004.3 µg/mL | +/- 36.5402 |
| 13 | 3-Methylphenol (m-cresol) | 108-39-4 | STBJ0710 | 99% | 502.1 µg/mL | +/- 18.2671 |
| 14 | 4-Methylphenol (p-cresol) | 106-44-5 | SHBN3411 | 99% | 501.9 µg/mL | +/- 18.2631 |
| 15 | N-Nitroso-di-n-propylamine | 621-64-7 | N63MG | 99% | 1,004.0 µg/mL | +/- 36.5281 |
| 16 | Hexachloroethane | 67-72-1 | QTORH | 99% | 1,006.1 µg/mL | +/- 36.6029 |
| 17 | Nitrobenzene | 98-95-3 | 10224044 | 99% | 1,003.1 µg/mL | +/- 36.4957 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 18 | Isophorone | 78-59-1 | MKCC9506 | 99% | 1,003.8 | µg/mL | +/- 36.5220 |
| 19 | 2-Nitrophenol | 88-75-5 | RP230509C | 99% | 1,005.8 | µg/mL | +/- 36.5948 |
| 20 | 2,4-Dimethylphenol | 105-67-9 | XW5GK | 99% | 1,004.2 | µg/mL | +/- 36.5341 |
| 21 | Bis(2-chloroethoxy)methane | 111-91-1 | 13670200 | 99% | 1,006.3 | µg/mL | +/- 36.6130 |
| 22 | 2,4-Dichlorophenol | 120-83-2 | BCBZ6787 | 99% | 1,004.0 | µg/mL | +/- 36.5281 |
| 23 | 1,2,4-Trichlorobenzene | 120-82-1 | SHBM0526 | 99% | 1,007.1 | µg/mL | +/- 36.6413 |
| 24 | Naphthalene | 91-20-3 | MKCH0219 | 99% | 1,006.7 | µg/mL | +/- 36.6271 |
| 25 | 4-Chloroaniline | 106-47-8 | WXBC4601V | 99% | 1,005.4 | µg/mL | +/- 36.5806 |
| 26 | Hexachlorobutadiene | 87-68-3 | X05J | 99% | 1,006.4 | µg/mL | +/- 36.6170 |
| 27 | 4-Chloro-3-methylphenol | 59-50-7 | BCCD4461 | 99% | 1,004.7 | µg/mL | +/- 36.5543 |
| 28 | 2-Methylnaphthalene | 91-57-6 | STBK0259 | 96% | 1,002.3 | µg/mL | +/- 36.4679 |
| 29 | 1-Methylnaphthalene | 90-12-0 | 5234.00-3 | 99% | 1,000.0 | µg/mL | +/- 36.3825 |
| 30 | Hexachlorocyclopentadiene | 77-47-4 | 0012019 | 99% | 1,006.1 | µg/mL | +/- 36.6049 |
| 31 | 2,4,6-Trichlorophenol | 88-06-2 | STBJ5914 | 99% | 1,004.9 | µg/mL | +/- 36.5604 |
| 32 | 2,4,5-Trichlorophenol | 95-95-4 | FHN01 | 98% | 1,006.5 | µg/mL | +/- 36.6176 |
| 33 | 2-Chloronaphthalene | 91-58-7 | RPN7O | 99% | 1,004.4 | µg/mL | +/- 36.5422 |
| 34 | 2-Nitroaniline | 88-74-4 | RP230509A | 99% | 1,002.3 | µg/mL | +/- 36.4654 |
| 35 | 1,4-Dinitrobenzene | 100-25-4 | RP230512A | 99% | 1,001.5 | µg/mL | +/- 36.4371 |
| 36 | Acenaphthylene | 208-96-8 | L10L | 95% | 1,003.4 | µg/mL | +/- 36.5066 |
| 37 | 1,3-Dinitrobenzene | 99-65-0 | 1-DXX-24-1 | 99% | 1,004.8 | µg/mL | +/- 36.5564 |
| 38 | Dimethylphthalate | 131-11-3 | 10117699 | 99% | 1,004.7 | µg/mL | +/- 36.5543 |
| 39 | 2,6-Dinitrotoluene | 606-20-2 | BCCG1833 | 99% | 1,006.8 | µg/mL | +/- 36.6312 |
| 40 | 1,2-Dinitrobenzene | 528-29-0 | RP230428 | 99% | 1,006.4 | µg/mL | +/- 36.6170 |
| 41 | Acenaphthene | 83-32-9 | MKCR7169 | 99% | 1,000.0 | µg/mL | +/- 36.3825 |
| 42 | 3-Nitroaniline | 99-09-2 | MKCH5457 | 99% | 1,004.8 | µg/mL | +/- 36.5584 |
| 43 | 2,4-Dinitrophenol | 51-28-5 | DR230417RSR | 99% | 1,005.8 | µg/mL | +/- 36.5948 |
| 44 | Dibenzofuran | 132-64-9 | MKCN1772 | 99% | 1,004.3 | µg/mL | +/- 36.5402 |
| 45 | 2,4-Dinitrotoluene | 121-14-2 | MKAA0690V | 99% | 1,005.8 | µg/mL | +/- 36.5928 |
| 46 | 4-Nitrophenol | 100-02-7 | RP230511A | 99% | 1,005.8 | µg/mL | +/- 36.5948 |
| 47 | 2,3,4,6-Tetrachlorophenol | 58-90-2 | PR-30126 | 99% | 1,005.9 | µg/mL | +/- 36.5988 |
| 48 | 2,3,5,6-Tetrachlorophenol | 935-95-5 | RP230513 | 99% | 1,004.9 | µg/mL | +/- 36.5624 |
| 49 | Fluorene | 86-73-7 | 10236068 | 99% | 1,005.4 | µg/mL | +/- 36.5806 |
| 50 | 4-Chlorophenyl phenyl ether | 7005-72-3 | MKCQ0984 | 99% | 1,004.3 | µg/mL | +/- 36.5382 |
| 51 | Diethylphthalate | 84-66-2 | BCCD3396 | 99% | 1,007.1 | µg/mL | +/- 36.6392 |
| 52 | 4-Nitroaniline | 100-01-6 | RP220906 | 99% | 1,005.3 | µg/mL | +/- 36.5766 |
| 53 | 4,6-Dinitro-2-methylphenol (Dinitro-o-cresol) | 534-52-1 | 230505JLM | 99% | 1,003.8 | µg/mL | +/- 36.5200 |

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|---|---|---|---|---|---|---|---|
| 54 | Diphenylamine | 122-39-4 | MKCH1042 | 99% | 1,002.5 | µg/mL | +/- 36.4735 |
| 55 | Azobenzene | 103-33-3 | BCCG7339 | 98% | 1,003.5 | µg/mL | +/- 36.5106 |
| 56 | 4-Bromophenyl phenyl ether | 101-55-3 | STBH6361 | 99% | 1,005.6 | µg/mL | +/- 36.5847 |
| 57 | Hexachlorobenzene | 118-74-1 | 14257500 | 99% | 1,005.9 | µg/mL | +/- 36.5988 |
| 58 | Pentachlorophenol | 87-86-5 | RP230504 | 99% | 1,004.2 | µg/mL | +/- 36.5362 |
| 59 | Phenanthrene | 85-01-8 | MKCQ8876 | 99% | 1,004.1 | µg/mL | +/- 36.5321 |
| 60 | Anthracene | 120-12-7 | MKCR0570 | 99% | 1,008.3 | µg/mL | +/- 36.6857 |
| 61 | Carbazole | 86-74-8 | 14351100 | 99% | 1,005.1 | µg/mL | +/- 36.5665 |
| 62 | Di-n-butylphthalate | 84-74-2 | MKCN4337 | 99% | 1,006.4 | µg/mL | +/- 36.6170 |
| 63 | Fluoranthene | 206-44-0 | MKCQ4728 | 99% | 1,003.7 | µg/mL | +/- 36.5159 |
| 64 | Pyrene | 129-00-0 | BCCG7845 | 99% | 1,004.3 | µg/mL | +/- 36.5382 |
| 65 | Benzyl butyl phthalate | 85-68-7 | X12I018 | 99% | 1,003.4 | µg/mL | +/- 36.5058 |
| 66 | Bis(2-ethylhexyl)adipate | 103-23-1 | MKCM1988 | 99% | 1,003.4 | µg/mL | +/- 36.5079 |
| 67 | Benz(a)anthracene | 56-55-3 | 0012022BAA | 97% | 1,004.9 | µg/mL | +/- 36.5624 |
| 68 | Chrysene | 218-01-9 | RP230512B | 99% | 1,006.2 | µg/mL | +/- 36.6089 |
| 69 | Bis(2-ethylhexyl)phthalate | 117-81-7 | MKCQ3468 | 99% | 1,003.8 | µg/mL | +/- 36.5220 |
| 70 | Di-n-octyl phthalate | 117-84-0 | 13994100 | 99% | 1,004.2 | µg/mL | +/- 36.5341 |
| 71 | Benzo(b)fluoranthene | 205-99-2 | 012013B | 99% | 1,008.4 | µg/mL | +/- 36.6877 |
| 72 | Benzo(k)fluoranthene | 207-08-9 | 012022K | 99% | 1,004.1 | µg/mL | +/- 36.5301 |
| 73 | Benzo(a)pyrene | 50-32-8 | J6IUE | 99% | 1,006.4 | µg/mL | +/- 36.6170 |
| 74 | Indeno(1,2,3-cd)pyrene | 193-39-5 | 12-JKL-118-9 | 97% | 1,002.0 | µg/mL | +/- 36.4557 |
| 75 | Dibenz(a,h)anthracene | 53-70-3 | ER032211-01 | 99% | 1,006.1 | µg/mL | +/- 36.6029 |
| 76 | Benzo(g,h,i)perylene | 191-24-2 | RP230511B | 98% | 1,006.8 | µg/mL | +/- 36.6295 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

# Quality Confirmation Test

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

**Carrier Gas:**
hydrogen-constant flow 1.8 mL/min.

**Temp. Program:**
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

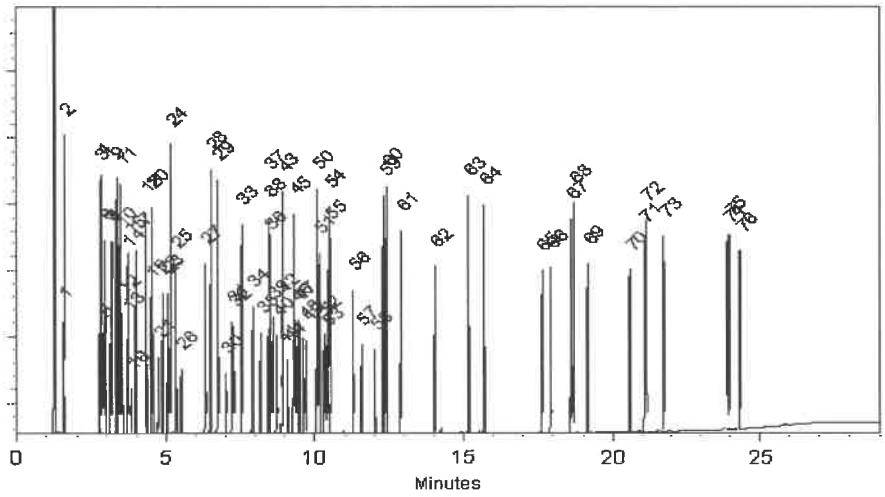
**Inj. Temp:**
250°C

**Det. Temp:**
340°C

**Det. Type:**
FID

**Split Vent:**
100 ml/min.

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

**Date Mixed:** 11-May-2023 **Balance Serial #** 1128353505

Christie Mills - Operations Tech II - ARM QC

**Date Passed:** 18-May-2023

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic plus*

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31850 **Lot No.:** A0197982

**Description :** 8270 MegaMix®

8270 MegaMix® 500-1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** November 30, 2024 **Storage:** 0°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

S11877 ↓ S11906 RC 11/30/23

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Pyridine | 110-86-1 | SHBN7324 | 99% | 1,006.9 µg/mL | +/- 36.6352 |
| 2 | N-Nitrosodimethylamine | 62-75-9 | 230209JLM | 99% | 1,007.4 µg/mL | +/- 36.6514 |
| 3 | Phenol | 108-95-2 | MKCK1120 | 99% | 1,005.3 µg/mL | +/- 36.5746 |
| 4 | Aniline | 62-53-3 | X22F726 | 99% | 1,004.6 µg/mL | +/- 36.5503 |
| 5 | Bis(2-chloroethyl)ether | 111-44-4 | SHBL6942 | 99% | 1,005.1 µg/mL | +/- 36.5665 |
| 6 | 2-Chlorophenol | 95-57-8 | STBJ3909 | 99% | 1,007.1 µg/mL | +/- 36.6392 |
| 7 | 1,3-Dichlorobenzene | 541-73-1 | BCBZ7498 | 99% | 1,006.7 µg/mL | +/- 36.6251 |
| 8 | 1,4-Dichlorobenzene | 106-46-7 | MKBS7929V | 99% | 1,005.6 µg/mL | +/- 36.5867 |
| 9 | Benzyl alcohol | 100-51-6 | SHBK5943 | 99% | 1,005.4 µg/mL | +/- 36.5786 |
| 10 | 1,2-Dichlorobenzene | 95-50-1 | SHBN3835 | 99% | 1,003.9 µg/mL | +/- 36.5240 |
| 11 | 2-Methylphenol (o-cresol) | 95-48-7 | SHBN7598 | 99% | 1,002.3 µg/mL | +/- 36.4654 |
| 12 | 2,2'-oxybis(1-chloropropane) | 108-60-1 | 230329JLM | 99% | 1,004.3 µg/mL | +/- 36.5402 |
| 13 | 3-Methylphenol (m-cresol) | 108-39-4 | STBJ0710 | 99% | 502.1 µg/mL | +/- 18.2671 |
| 14 | 4-Methylphenol (p-cresol) | 106-44-5 | SHBN3411 | 99% | 501.9 µg/mL | +/- 18.2631 |
| 15 | N-Nitroso-di-n-propylamine | 621-64-7 | N63MG | 99% | 1,004.0 µg/mL | +/- 36.5281 |
| 16 | Hexachloroethane | 67-72-1 | QTORH | 99% | 1,006.1 µg/mL | +/- 36.6029 |
| 17 | Nitrobenzene | 98-95-3 | 10224044 | 99% | 1,003.1 µg/mL | +/- 36.4957 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 18 | Isophorone | 78-59-1 | MKCC9506 | 99% | 1,003.8 | µg/mL | +/- 36.5220 |
| 19 | 2-Nitrophenol | 88-75-5 | RP230509C | 99% | 1,005.8 | µg/mL | +/- 36.5948 |
| 20 | 2,4-Dimethylphenol | 105-67-9 | XW5GK | 99% | 1,004.2 | µg/mL | +/- 36.5341 |
| 21 | Bis(2-chloroethoxy)methane | 111-91-1 | 13670200 | 99% | 1,006.3 | µg/mL | +/- 36.6130 |
| 22 | 2,4-Dichlorophenol | 120-83-2 | BCBZ6787 | 99% | 1,004.0 | µg/mL | +/- 36.5281 |
| 23 | 1,2,4-Trichlorobenzene | 120-82-1 | SHBM0526 | 99% | 1,007.1 | µg/mL | +/- 36.6413 |
| 24 | Naphthalene | 91-20-3 | MKCH0219 | 99% | 1,006.7 | µg/mL | +/- 36.6271 |
| 25 | 4-Chloroaniline | 106-47-8 | WXBC4601V | 99% | 1,005.4 | µg/mL | +/- 36.5806 |
| 26 | Hexachlorobutadiene | 87-68-3 | X05J | 99% | 1,006.4 | µg/mL | +/- 36.6170 |
| 27 | 4-Chloro-3-methylphenol | 59-50-7 | BCCD4461 | 99% | 1,004.7 | µg/mL | +/- 36.5543 |
| 28 | 2-Methylnaphthalene | 91-57-6 | STBK0259 | 96% | 1,002.3 | µg/mL | +/- 36.4679 |
| 29 | 1-Methylnaphthalene | 90-12-0 | 5234.00-3 | 99% | 1,000.0 | µg/mL | +/- 36.3825 |
| 30 | Hexachlorocyclopentadiene | 77-47-4 | 0012019 | 99% | 1,006.1 | µg/mL | +/- 36.6049 |
| 31 | 2,4,6-Trichlorophenol | 88-06-2 | STBJ5914 | 99% | 1,004.9 | µg/mL | +/- 36.5604 |
| 32 | 2,4,5-Trichlorophenol | 95-95-4 | FHN01 | 98% | 1,006.5 | µg/mL | +/- 36.6176 |
| 33 | 2-Chloronaphthalene | 91-58-7 | RPN7O | 99% | 1,004.4 | µg/mL | +/- 36.5422 |
| 34 | 2-Nitroaniline | 88-74-4 | RP230509A | 99% | 1,002.3 | µg/mL | +/- 36.4654 |
| 35 | 1,4-Dinitrobenzene | 100-25-4 | RP230512A | 99% | 1,001.5 | µg/mL | +/- 36.4371 |
| 36 | Acenaphthylene | 208-96-8 | L10L | 95% | 1,003.4 | µg/mL | +/- 36.5066 |
| 37 | 1,3-Dinitrobenzene | 99-65-0 | 1-DXX-24-1 | 99% | 1,004.8 | µg/mL | +/- 36.5564 |
| 38 | Dimethylphthalate | 131-11-3 | 10117699 | 99% | 1,004.7 | µg/mL | +/- 36.5543 |
| 39 | 2,6-Dinitrotoluene | 606-20-2 | BCCG1833 | 99% | 1,006.8 | µg/mL | +/- 36.6312 |
| 40 | 1,2-Dinitrobenzene | 528-29-0 | RP230428 | 99% | 1,006.4 | µg/mL | +/- 36.6170 |
| 41 | Acenaphthene | 83-32-9 | MKCR7169 | 99% | 1,000.0 | µg/mL | +/- 36.3825 |
| 42 | 3-Nitroaniline | 99-09-2 | MKCH5457 | 99% | 1,004.8 | µg/mL | +/- 36.5584 |
| 43 | 2,4-Dinitrophenol | 51-28-5 | DR230417RSR | 99% | 1,005.8 | µg/mL | +/- 36.5948 |
| 44 | Dibenzofuran | 132-64-9 | MKCN1772 | 99% | 1,004.3 | µg/mL | +/- 36.5402 |
| 45 | 2,4-Dinitrotoluene | 121-14-2 | MKAA0690V | 99% | 1,005.8 | µg/mL | +/- 36.5928 |
| 46 | 4-Nitrophenol | 100-02-7 | RP230511A | 99% | 1,005.8 | µg/mL | +/- 36.5948 |
| 47 | 2,3,4,6-Tetrachlorophenol | 58-90-2 | PR-30126 | 99% | 1,005.9 | µg/mL | +/- 36.5988 |
| 48 | 2,3,5,6-Tetrachlorophenol | 935-95-5 | RP230513 | 99% | 1,004.9 | µg/mL | +/- 36.5624 |
| 49 | Fluorene | 86-73-7 | 10236068 | 99% | 1,005.4 | µg/mL | +/- 36.5806 |
| 50 | 4-Chlorophenyl phenyl ether | 7005-72-3 | MKCQ0984 | 99% | 1,004.3 | µg/mL | +/- 36.5382 |
| 51 | Diethylphthalate | 84-66-2 | BCCD3396 | 99% | 1,007.1 | µg/mL | +/- 36.6392 |
| 52 | 4-Nitroaniline | 100-01-6 | RP220906 | 99% | 1,005.3 | µg/mL | +/- 36.5766 |
| 53 | 4,6-Dinitro-2-methylphenol (Dinitro-o-cresol) | 534-52-1 | 230505JLM | 99% | 1,003.8 | µg/mL | +/- 36.5200 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 54 | Diphenylamine | 122-39-4 | MKCH1042 | 99% | 1,002.5 | µg/mL | +/- 36.4735 |
| 55 | Azobenzene | 103-33-3 | BCCG7339 | 98% | 1,003.5 | µg/mL | +/- 36.5106 |
| 56 | 4-Bromophenyl phenyl ether | 101-55-3 | STBH6361 | 99% | 1,005.6 | µg/mL | +/- 36.5847 |
| 57 | Hexachlorobenzene | 118-74-1 | 14257500 | 99% | 1,005.9 | µg/mL | +/- 36.5988 |
| 58 | Pentachlorophenol | 87-86-5 | RP230504 | 99% | 1,004.2 | µg/mL | +/- 36.5362 |
| 59 | Phenanthrene | 85-01-8 | MKCQ8876 | 99% | 1,004.1 | µg/mL | +/- 36.5321 |
| 60 | Anthracene | 120-12-7 | MKCR0570 | 99% | 1,008.3 | µg/mL | +/- 36.6857 |
| 61 | Carbazole | 86-74-8 | 14351100 | 99% | 1,005.1 | µg/mL | +/- 36.5665 |
| 62 | Di-n-butylphthalate | 84-74-2 | MKCN4337 | 99% | 1,006.4 | µg/mL | +/- 36.6170 |
| 63 | Fluoranthene | 206-44-0 | MKCQ4728 | 99% | 1,003.7 | µg/mL | +/- 36.5159 |
| 64 | Pyrene | 129-00-0 | BCCG7845 | 99% | 1,004.3 | µg/mL | +/- 36.5382 |
| 65 | Benzyl butyl phthalate | 85-68-7 | X12I018 | 99% | 1,003.4 | µg/mL | +/- 36.5058 |
| 66 | Bis(2-ethylhexyl)adipate | 103-23-1 | MKCM1988 | 99% | 1,003.4 | µg/mL | +/- 36.5079 |
| 67 | Benz(a)anthracene | 56-55-3 | 0012022BAA | 97% | 1,004.9 | µg/mL | +/- 36.5624 |
| 68 | Chrysene | 218-01-9 | RP230512B | 99% | 1,006.2 | µg/mL | +/- 36.6089 |
| 69 | Bis(2-ethylhexyl)phthalate | 117-81-7 | MKCQ3468 | 99% | 1,003.8 | µg/mL | +/- 36.5220 |
| 70 | Di-n-octyl phthalate | 117-84-0 | 13994100 | 99% | 1,004.2 | µg/mL | +/- 36.5341 |
| 71 | Benzo(b)fluoranthene | 205-99-2 | 012013B | 99% | 1,008.4 | µg/mL | +/- 36.6877 |
| 72 | Benzo(k)fluoranthene | 207-08-9 | 012022K | 99% | 1,004.1 | µg/mL | +/- 36.5301 |
| 73 | Benzo(a)pyrene | 50-32-8 | J6IUE | 99% | 1,006.4 | µg/mL | +/- 36.6170 |
| 74 | Indeno(1,2,3-cd)pyrene | 193-39-5 | 12-JKL-118-9 | 97% | 1,002.0 | µg/mL | +/- 36.4557 |
| 75 | Dibenz(a,h)anthracene | 53-70-3 | ER032211-01 | 99% | 1,006.1 | µg/mL | +/- 36.6029 |
| 76 | Benzo(g,h,i)perylene | 191-24-2 | RP230511B | 98% | 1,006.8 | µg/mL | +/- 36.6295 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

# Quality Confirmation Test

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

**Carrier Gas:**
hydrogen-constant flow 1.8 mL/min.

**Temp. Program:**
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

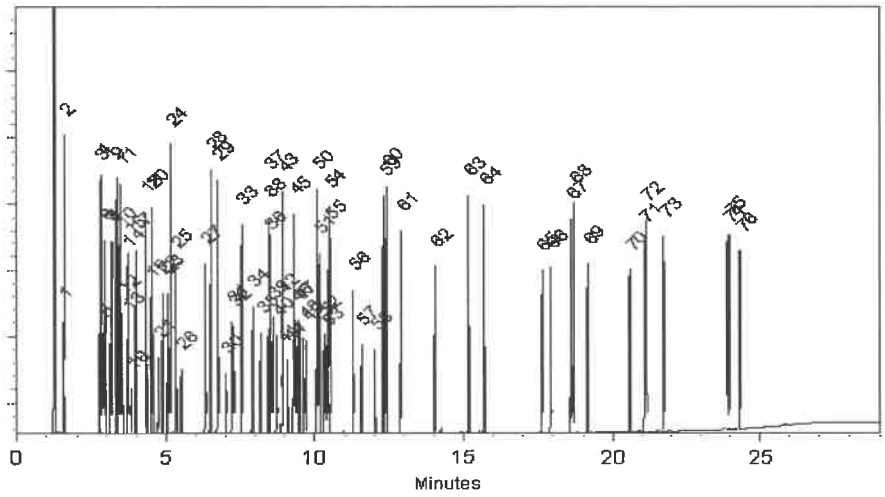
**Inj. Temp:**
250°C

**Det. Temp:**
340°C

**Det. Type:**
FID

**Split Vent:**
100 ml/min.

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

**Date Mixed:** 11-May-2023 **Balance Serial #** 1128353505

Christie Mills - Operations Tech II - ARM QC

**Date Passed:** 18-May-2023

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

***chromatographic plus***

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31850 **Lot No.:** A0197982

**Description :** 8270 MegaMix®

8270 MegaMix® 500-1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** November 30, 2024 **Storage:** 0°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

S11877 ↓ S11906 RC 11/30/23

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Pyridine | 110-86-1 | SHBN7324 | 99% | 1,006.9 µg/mL | +/- 36.6352 |
| 2 | N-Nitrosodimethylamine | 62-75-9 | 230209JLM | 99% | 1,007.4 µg/mL | +/- 36.6514 |
| 3 | Phenol | 108-95-2 | MKCK1120 | 99% | 1,005.3 µg/mL | +/- 36.5746 |
| 4 | Aniline | 62-53-3 | X22F726 | 99% | 1,004.6 µg/mL | +/- 36.5503 |
| 5 | Bis(2-chloroethyl)ether | 111-44-4 | SHBL6942 | 99% | 1,005.1 µg/mL | +/- 36.5665 |
| 6 | 2-Chlorophenol | 95-57-8 | STBJ3909 | 99% | 1,007.1 µg/mL | +/- 36.6392 |
| 7 | 1,3-Dichlorobenzene | 541-73-1 | BCBZ7498 | 99% | 1,006.7 µg/mL | +/- 36.6251 |
| 8 | 1,4-Dichlorobenzene | 106-46-7 | MKBS7929V | 99% | 1,005.6 µg/mL | +/- 36.5867 |
| 9 | Benzyl alcohol | 100-51-6 | SHBK5943 | 99% | 1,005.4 µg/mL | +/- 36.5786 |
| 10 | 1,2-Dichlorobenzene | 95-50-1 | SHBN3835 | 99% | 1,003.9 µg/mL | +/- 36.5240 |
| 11 | 2-Methylphenol (o-cresol) | 95-48-7 | SHBN7598 | 99% | 1,002.3 µg/mL | +/- 36.4654 |
| 12 | 2,2'-oxybis(1-chloropropane) | 108-60-1 | 230329JLM | 99% | 1,004.3 µg/mL | +/- 36.5402 |
| 13 | 3-Methylphenol (m-cresol) | 108-39-4 | STBJ0710 | 99% | 502.1 µg/mL | +/- 18.2671 |
| 14 | 4-Methylphenol (p-cresol) | 106-44-5 | SHBN3411 | 99% | 501.9 µg/mL | +/- 18.2631 |
| 15 | N-Nitroso-di-n-propylamine | 621-64-7 | N63MG | 99% | 1,004.0 µg/mL | +/- 36.5281 |
| 16 | Hexachloroethane | 67-72-1 | QTORH | 99% | 1,006.1 µg/mL | +/- 36.6029 |
| 17 | Nitrobenzene | 98-95-3 | 10224044 | 99% | 1,003.1 µg/mL | +/- 36.4957 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 18 | Isophorone | 78-59-1 | MKCC9506 | 99% | 1,003.8 | µg/mL | +/- 36.5220 |
| 19 | 2-Nitrophenol | 88-75-5 | RP230509C | 99% | 1,005.8 | µg/mL | +/- 36.5948 |
| 20 | 2,4-Dimethylphenol | 105-67-9 | XW5GK | 99% | 1,004.2 | µg/mL | +/- 36.5341 |
| 21 | Bis(2-chloroethoxy)methane | 111-91-1 | 13670200 | 99% | 1,006.3 | µg/mL | +/- 36.6130 |
| 22 | 2,4-Dichlorophenol | 120-83-2 | BCBZ6787 | 99% | 1,004.0 | µg/mL | +/- 36.5281 |
| 23 | 1,2,4-Trichlorobenzene | 120-82-1 | SHBM0526 | 99% | 1,007.1 | µg/mL | +/- 36.6413 |
| 24 | Naphthalene | 91-20-3 | MKCH0219 | 99% | 1,006.7 | µg/mL | +/- 36.6271 |
| 25 | 4-Chloroaniline | 106-47-8 | WXBC4601V | 99% | 1,005.4 | µg/mL | +/- 36.5806 |
| 26 | Hexachlorobutadiene | 87-68-3 | X05J | 99% | 1,006.4 | µg/mL | +/- 36.6170 |
| 27 | 4-Chloro-3-methylphenol | 59-50-7 | BCCD4461 | 99% | 1,004.7 | µg/mL | +/- 36.5543 |
| 28 | 2-Methylnaphthalene | 91-57-6 | STBK0259 | 96% | 1,002.3 | µg/mL | +/- 36.4679 |
| 29 | 1-Methylnaphthalene | 90-12-0 | 5234.00-3 | 99% | 1,000.0 | µg/mL | +/- 36.3825 |
| 30 | Hexachlorocyclopentadiene | 77-47-4 | 0012019 | 99% | 1,006.1 | µg/mL | +/- 36.6049 |
| 31 | 2,4,6-Trichlorophenol | 88-06-2 | STBJ5914 | 99% | 1,004.9 | µg/mL | +/- 36.5604 |
| 32 | 2,4,5-Trichlorophenol | 95-95-4 | FHN01 | 98% | 1,006.5 | µg/mL | +/- 36.6176 |
| 33 | 2-Chloronaphthalene | 91-58-7 | RPN7O | 99% | 1,004.4 | µg/mL | +/- 36.5422 |
| 34 | 2-Nitroaniline | 88-74-4 | RP230509A | 99% | 1,002.3 | µg/mL | +/- 36.4654 |
| 35 | 1,4-Dinitrobenzene | 100-25-4 | RP230512A | 99% | 1,001.5 | µg/mL | +/- 36.4371 |
| 36 | Acenaphthylene | 208-96-8 | L10L | 95% | 1,003.4 | µg/mL | +/- 36.5066 |
| 37 | 1,3-Dinitrobenzene | 99-65-0 | 1-DXX-24-1 | 99% | 1,004.8 | µg/mL | +/- 36.5564 |
| 38 | Dimethylphthalate | 131-11-3 | 10117699 | 99% | 1,004.7 | µg/mL | +/- 36.5543 |
| 39 | 2,6-Dinitrotoluene | 606-20-2 | BCCG1833 | 99% | 1,006.8 | µg/mL | +/- 36.6312 |
| 40 | 1,2-Dinitrobenzene | 528-29-0 | RP230428 | 99% | 1,006.4 | µg/mL | +/- 36.6170 |
| 41 | Acenaphthene | 83-32-9 | MKCR7169 | 99% | 1,000.0 | µg/mL | +/- 36.3825 |
| 42 | 3-Nitroaniline | 99-09-2 | MKCH5457 | 99% | 1,004.8 | µg/mL | +/- 36.5584 |
| 43 | 2,4-Dinitrophenol | 51-28-5 | DR230417RSR | 99% | 1,005.8 | µg/mL | +/- 36.5948 |
| 44 | Dibenzofuran | 132-64-9 | MKCN1772 | 99% | 1,004.3 | µg/mL | +/- 36.5402 |
| 45 | 2,4-Dinitrotoluene | 121-14-2 | MKAA0690V | 99% | 1,005.8 | µg/mL | +/- 36.5928 |
| 46 | 4-Nitrophenol | 100-02-7 | RP230511A | 99% | 1,005.8 | µg/mL | +/- 36.5948 |
| 47 | 2,3,4,6-Tetrachlorophenol | 58-90-2 | PR-30126 | 99% | 1,005.9 | µg/mL | +/- 36.5988 |
| 48 | 2,3,5,6-Tetrachlorophenol | 935-95-5 | RP230513 | 99% | 1,004.9 | µg/mL | +/- 36.5624 |
| 49 | Fluorene | 86-73-7 | 10236068 | 99% | 1,005.4 | µg/mL | +/- 36.5806 |
| 50 | 4-Chlorophenyl phenyl ether | 7005-72-3 | MKCQ0984 | 99% | 1,004.3 | µg/mL | +/- 36.5382 |
| 51 | Diethylphthalate | 84-66-2 | BCCD3396 | 99% | 1,007.1 | µg/mL | +/- 36.6392 |
| 52 | 4-Nitroaniline | 100-01-6 | RP220906 | 99% | 1,005.3 | µg/mL | +/- 36.5766 |
| 53 | 4,6-Dinitro-2-methylphenol (Dinitro-o-cresol) | 534-52-1 | 230505JLM | 99% | 1,003.8 | µg/mL | +/- 36.5200 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 54 | Diphenylamine | 122-39-4 | MKCH1042 | 99% | 1,002.5 | µg/mL | +/- 36.4735 |
| 55 | Azobenzene | 103-33-3 | BCCG7339 | 98% | 1,003.5 | µg/mL | +/- 36.5106 |
| 56 | 4-Bromophenyl phenyl ether | 101-55-3 | STBH6361 | 99% | 1,005.6 | µg/mL | +/- 36.5847 |
| 57 | Hexachlorobenzene | 118-74-1 | 14257500 | 99% | 1,005.9 | µg/mL | +/- 36.5988 |
| 58 | Pentachlorophenol | 87-86-5 | RP230504 | 99% | 1,004.2 | µg/mL | +/- 36.5362 |
| 59 | Phenanthrene | 85-01-8 | MKCQ8876 | 99% | 1,004.1 | µg/mL | +/- 36.5321 |
| 60 | Anthracene | 120-12-7 | MKCR0570 | 99% | 1,008.3 | µg/mL | +/- 36.6857 |
| 61 | Carbazole | 86-74-8 | 14351100 | 99% | 1,005.1 | µg/mL | +/- 36.5665 |
| 62 | Di-n-butylphthalate | 84-74-2 | MKCN4337 | 99% | 1,006.4 | µg/mL | +/- 36.6170 |
| 63 | Fluoranthene | 206-44-0 | MKCQ4728 | 99% | 1,003.7 | µg/mL | +/- 36.5159 |
| 64 | Pyrene | 129-00-0 | BCCG7845 | 99% | 1,004.3 | µg/mL | +/- 36.5382 |
| 65 | Benzyl butyl phthalate | 85-68-7 | X12I018 | 99% | 1,003.4 | µg/mL | +/- 36.5058 |
| 66 | Bis(2-ethylhexyl)adipate | 103-23-1 | MKCM1988 | 99% | 1,003.4 | µg/mL | +/- 36.5079 |
| 67 | Benz(a)anthracene | 56-55-3 | 0012022BAA | 97% | 1,004.9 | µg/mL | +/- 36.5624 |
| 68 | Chrysene | 218-01-9 | RP230512B | 99% | 1,006.2 | µg/mL | +/- 36.6089 |
| 69 | Bis(2-ethylhexyl)phthalate | 117-81-7 | MKCQ3468 | 99% | 1,003.8 | µg/mL | +/- 36.5220 |
| 70 | Di-n-octyl phthalate | 117-84-0 | 13994100 | 99% | 1,004.2 | µg/mL | +/- 36.5341 |
| 71 | Benzo(b)fluoranthene | 205-99-2 | 012013B | 99% | 1,008.4 | µg/mL | +/- 36.6877 |
| 72 | Benzo(k)fluoranthene | 207-08-9 | 012022K | 99% | 1,004.1 | µg/mL | +/- 36.5301 |
| 73 | Benzo(a)pyrene | 50-32-8 | J6IUE | 99% | 1,006.4 | µg/mL | +/- 36.6170 |
| 74 | Indeno(1,2,3-cd)pyrene | 193-39-5 | 12-JKL-118-9 | 97% | 1,002.0 | µg/mL | +/- 36.4557 |
| 75 | Dibenz(a,h)anthracene | 53-70-3 | ER032211-01 | 99% | 1,006.1 | µg/mL | +/- 36.6029 |
| 76 | Benzo(g,h,i)perylene | 191-24-2 | RP230511B | 98% | 1,006.8 | µg/mL | +/- 36.6295 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

# Quality Confirmation Test

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

**Carrier Gas:**
hydrogen-constant flow 1.8 mL/min.

**Temp. Program:**
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

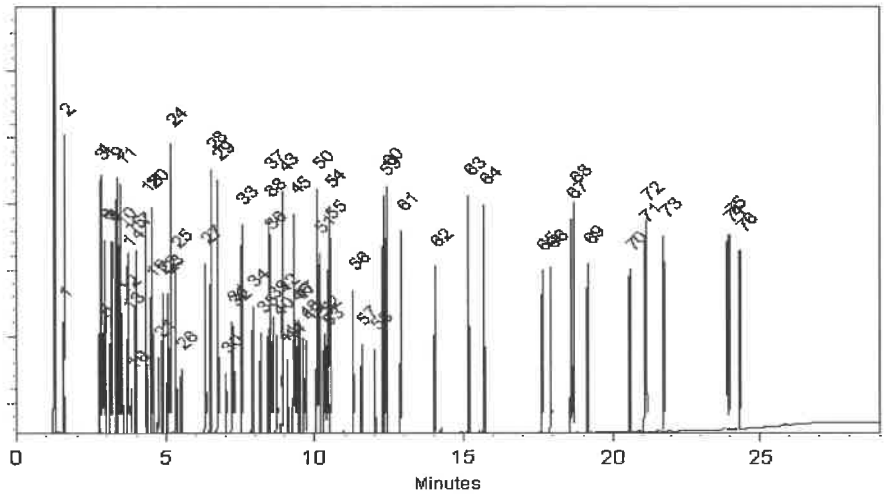
**Inj. Temp:**
250°C

**Det. Temp:**
340°C

**Det. Type:**
FID

**Split Vent:**
100 ml/min.

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

**Date Mixed:** 11-May-2023 **Balance Serial #** 1128353505

Christie Mills - Operations Tech II - ARM QC

**Date Passed:** 18-May-2023

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

***chromatographic plus***

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31850 **Lot No.:** A0197982

**Description :** 8270 MegaMix®

8270 MegaMix® 500-1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** November 30, 2024 **Storage:** 0°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

S11877 ↓ S11906 RC 11/30/23

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Pyridine | 110-86-1 | SHBN7324 | 99% | 1,006.9 µg/mL | +/- 36.6352 |
| 2 | N-Nitrosodimethylamine | 62-75-9 | 230209JLM | 99% | 1,007.4 µg/mL | +/- 36.6514 |
| 3 | Phenol | 108-95-2 | MKCK1120 | 99% | 1,005.3 µg/mL | +/- 36.5746 |
| 4 | Aniline | 62-53-3 | X22F726 | 99% | 1,004.6 µg/mL | +/- 36.5503 |
| 5 | Bis(2-chloroethyl)ether | 111-44-4 | SHBL6942 | 99% | 1,005.1 µg/mL | +/- 36.5665 |
| 6 | 2-Chlorophenol | 95-57-8 | STBJ3909 | 99% | 1,007.1 µg/mL | +/- 36.6392 |
| 7 | 1,3-Dichlorobenzene | 541-73-1 | BCBZ7498 | 99% | 1,006.7 µg/mL | +/- 36.6251 |
| 8 | 1,4-Dichlorobenzene | 106-46-7 | MKBS7929V | 99% | 1,005.6 µg/mL | +/- 36.5867 |
| 9 | Benzyl alcohol | 100-51-6 | SHBK5943 | 99% | 1,005.4 µg/mL | +/- 36.5786 |
| 10 | 1,2-Dichlorobenzene | 95-50-1 | SHBN3835 | 99% | 1,003.9 µg/mL | +/- 36.5240 |
| 11 | 2-Methylphenol (o-cresol) | 95-48-7 | SHBN7598 | 99% | 1,002.3 µg/mL | +/- 36.4654 |
| 12 | 2,2'-oxybis(1-chloropropane) | 108-60-1 | 230329JLM | 99% | 1,004.3 µg/mL | +/- 36.5402 |
| 13 | 3-Methylphenol (m-cresol) | 108-39-4 | STBJ0710 | 99% | 502.1 µg/mL | +/- 18.2671 |
| 14 | 4-Methylphenol (p-cresol) | 106-44-5 | SHBN3411 | 99% | 501.9 µg/mL | +/- 18.2631 |
| 15 | N-Nitroso-di-n-propylamine | 621-64-7 | N63MG | 99% | 1,004.0 µg/mL | +/- 36.5281 |
| 16 | Hexachloroethane | 67-72-1 | QTORH | 99% | 1,006.1 µg/mL | +/- 36.6029 |
| 17 | Nitrobenzene | 98-95-3 | 10224044 | 99% | 1,003.1 µg/mL | +/- 36.4957 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 18 | Isophorone | 78-59-1 | MKCC9506 | 99% | 1,003.8 | µg/mL | +/- 36.5220 |
| 19 | 2-Nitrophenol | 88-75-5 | RP230509C | 99% | 1,005.8 | µg/mL | +/- 36.5948 |
| 20 | 2,4-Dimethylphenol | 105-67-9 | XW5GK | 99% | 1,004.2 | µg/mL | +/- 36.5341 |
| 21 | Bis(2-chloroethoxy)methane | 111-91-1 | 13670200 | 99% | 1,006.3 | µg/mL | +/- 36.6130 |
| 22 | 2,4-Dichlorophenol | 120-83-2 | BCBZ6787 | 99% | 1,004.0 | µg/mL | +/- 36.5281 |
| 23 | 1,2,4-Trichlorobenzene | 120-82-1 | SHBM0526 | 99% | 1,007.1 | µg/mL | +/- 36.6413 |
| 24 | Naphthalene | 91-20-3 | MKCH0219 | 99% | 1,006.7 | µg/mL | +/- 36.6271 |
| 25 | 4-Chloroaniline | 106-47-8 | WXBC4601V | 99% | 1,005.4 | µg/mL | +/- 36.5806 |
| 26 | Hexachlorobutadiene | 87-68-3 | X05J | 99% | 1,006.4 | µg/mL | +/- 36.6170 |
| 27 | 4-Chloro-3-methylphenol | 59-50-7 | BCCD4461 | 99% | 1,004.7 | µg/mL | +/- 36.5543 |
| 28 | 2-Methylnaphthalene | 91-57-6 | STBK0259 | 96% | 1,002.3 | µg/mL | +/- 36.4679 |
| 29 | 1-Methylnaphthalene | 90-12-0 | 5234.00-3 | 99% | 1,000.0 | µg/mL | +/- 36.3825 |
| 30 | Hexachlorocyclopentadiene | 77-47-4 | 0012019 | 99% | 1,006.1 | µg/mL | +/- 36.6049 |
| 31 | 2,4,6-Trichlorophenol | 88-06-2 | STBJ5914 | 99% | 1,004.9 | µg/mL | +/- 36.5604 |
| 32 | 2,4,5-Trichlorophenol | 95-95-4 | FHN01 | 98% | 1,006.5 | µg/mL | +/- 36.6176 |
| 33 | 2-Chloronaphthalene | 91-58-7 | RPN7O | 99% | 1,004.4 | µg/mL | +/- 36.5422 |
| 34 | 2-Nitroaniline | 88-74-4 | RP230509A | 99% | 1,002.3 | µg/mL | +/- 36.4654 |
| 35 | 1,4-Dinitrobenzene | 100-25-4 | RP230512A | 99% | 1,001.5 | µg/mL | +/- 36.4371 |
| 36 | Acenaphthylene | 208-96-8 | L10L | 95% | 1,003.4 | µg/mL | +/- 36.5066 |
| 37 | 1,3-Dinitrobenzene | 99-65-0 | 1-DXX-24-1 | 99% | 1,004.8 | µg/mL | +/- 36.5564 |
| 38 | Dimethylphthalate | 131-11-3 | 10117699 | 99% | 1,004.7 | µg/mL | +/- 36.5543 |
| 39 | 2,6-Dinitrotoluene | 606-20-2 | BCCG1833 | 99% | 1,006.8 | µg/mL | +/- 36.6312 |
| 40 | 1,2-Dinitrobenzene | 528-29-0 | RP230428 | 99% | 1,006.4 | µg/mL | +/- 36.6170 |
| 41 | Acenaphthene | 83-32-9 | MKCR7169 | 99% | 1,000.0 | µg/mL | +/- 36.3825 |
| 42 | 3-Nitroaniline | 99-09-2 | MKCH5457 | 99% | 1,004.8 | µg/mL | +/- 36.5584 |
| 43 | 2,4-Dinitrophenol | 51-28-5 | DR230417RSR | 99% | 1,005.8 | µg/mL | +/- 36.5948 |
| 44 | Dibenzofuran | 132-64-9 | MKCN1772 | 99% | 1,004.3 | µg/mL | +/- 36.5402 |
| 45 | 2,4-Dinitrotoluene | 121-14-2 | MKAA0690V | 99% | 1,005.8 | µg/mL | +/- 36.5928 |
| 46 | 4-Nitrophenol | 100-02-7 | RP230511A | 99% | 1,005.8 | µg/mL | +/- 36.5948 |
| 47 | 2,3,4,6-Tetrachlorophenol | 58-90-2 | PR-30126 | 99% | 1,005.9 | µg/mL | +/- 36.5988 |
| 48 | 2,3,5,6-Tetrachlorophenol | 935-95-5 | RP230513 | 99% | 1,004.9 | µg/mL | +/- 36.5624 |
| 49 | Fluorene | 86-73-7 | 10236068 | 99% | 1,005.4 | µg/mL | +/- 36.5806 |
| 50 | 4-Chlorophenyl phenyl ether | 7005-72-3 | MKCQ0984 | 99% | 1,004.3 | µg/mL | +/- 36.5382 |
| 51 | Diethylphthalate | 84-66-2 | BCCD3396 | 99% | 1,007.1 | µg/mL | +/- 36.6392 |
| 52 | 4-Nitroaniline | 100-01-6 | RP220906 | 99% | 1,005.3 | µg/mL | +/- 36.5766 |
| 53 | 4,6-Dinitro-2-methylphenol (Dinitro-o-cresol) | 534-52-1 | 230505JLM | 99% | 1,003.8 | µg/mL | +/- 36.5200 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 54 | Diphenylamine | 122-39-4 | MKCH1042 | 99% | 1,002.5 | µg/mL | +/- 36.4735 |
| 55 | Azobenzene | 103-33-3 | BCCG7339 | 98% | 1,003.5 | µg/mL | +/- 36.5106 |
| 56 | 4-Bromophenyl phenyl ether | 101-55-3 | STBH6361 | 99% | 1,005.6 | µg/mL | +/- 36.5847 |
| 57 | Hexachlorobenzene | 118-74-1 | 14257500 | 99% | 1,005.9 | µg/mL | +/- 36.5988 |
| 58 | Pentachlorophenol | 87-86-5 | RP230504 | 99% | 1,004.2 | µg/mL | +/- 36.5362 |
| 59 | Phenanthrene | 85-01-8 | MKCQ8876 | 99% | 1,004.1 | µg/mL | +/- 36.5321 |
| 60 | Anthracene | 120-12-7 | MKCR0570 | 99% | 1,008.3 | µg/mL | +/- 36.6857 |
| 61 | Carbazole | 86-74-8 | 14351100 | 99% | 1,005.1 | µg/mL | +/- 36.5665 |
| 62 | Di-n-butylphthalate | 84-74-2 | MKCN4337 | 99% | 1,006.4 | µg/mL | +/- 36.6170 |
| 63 | Fluoranthene | 206-44-0 | MKCQ4728 | 99% | 1,003.7 | µg/mL | +/- 36.5159 |
| 64 | Pyrene | 129-00-0 | BCCG7845 | 99% | 1,004.3 | µg/mL | +/- 36.5382 |
| 65 | Benzyl butyl phthalate | 85-68-7 | X12I018 | 99% | 1,003.4 | µg/mL | +/- 36.5058 |
| 66 | Bis(2-ethylhexyl)adipate | 103-23-1 | MKCM1988 | 99% | 1,003.4 | µg/mL | +/- 36.5079 |
| 67 | Benz(a)anthracene | 56-55-3 | 0012022BAA | 97% | 1,004.9 | µg/mL | +/- 36.5624 |
| 68 | Chrysene | 218-01-9 | RP230512B | 99% | 1,006.2 | µg/mL | +/- 36.6089 |
| 69 | Bis(2-ethylhexyl)phthalate | 117-81-7 | MKCQ3468 | 99% | 1,003.8 | µg/mL | +/- 36.5220 |
| 70 | Di-n-octyl phthalate | 117-84-0 | 13994100 | 99% | 1,004.2 | µg/mL | +/- 36.5341 |
| 71 | Benzo(b)fluoranthene | 205-99-2 | 012013B | 99% | 1,008.4 | µg/mL | +/- 36.6877 |
| 72 | Benzo(k)fluoranthene | 207-08-9 | 012022K | 99% | 1,004.1 | µg/mL | +/- 36.5301 |
| 73 | Benzo(a)pyrene | 50-32-8 | J6IUE | 99% | 1,006.4 | µg/mL | +/- 36.6170 |
| 74 | Indeno(1,2,3-cd)pyrene | 193-39-5 | 12-JKL-118-9 | 97% | 1,002.0 | µg/mL | +/- 36.4557 |
| 75 | Dibenz(a,h)anthracene | 53-70-3 | ER032211-01 | 99% | 1,006.1 | µg/mL | +/- 36.6029 |
| 76 | Benzo(g,h,i)perylene | 191-24-2 | RP230511B | 98% | 1,006.8 | µg/mL | +/- 36.6295 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

# Quality Confirmation Test

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

**Carrier Gas:**
hydrogen-constant flow 1.8 mL/min.

**Temp. Program:**
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

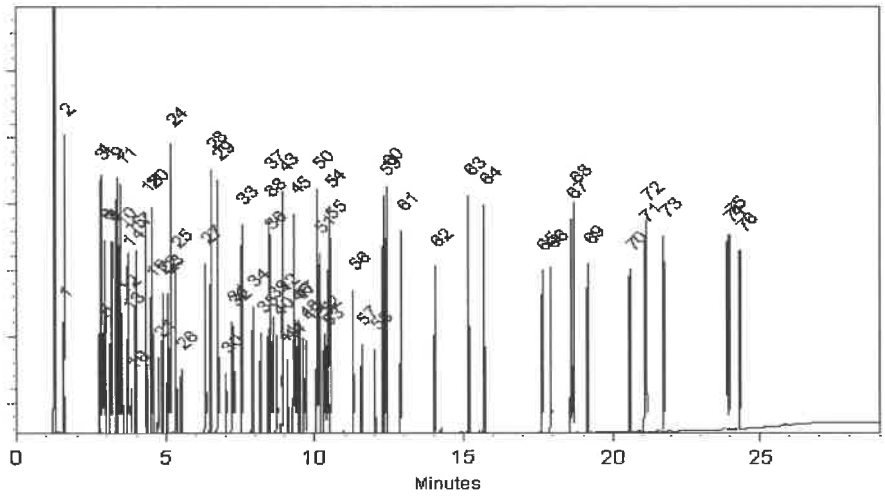
**Inj. Temp:**
250°C

**Det. Temp:**
340°C

**Det. Type:**
FID

**Split Vent:**
100 ml/min.

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

**Date Mixed:** 11-May-2023 **Balance Serial #** 1128353505

Christie Mills - Operations Tech II - ARM QC

**Date Passed:** 18-May-2023

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

***chromatographic plus***

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31850 **Lot No.:** A0197982

**Description :** 8270 MegaMix®

8270 MegaMix® 500-1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** November 30, 2024 **Storage:** 0°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

S11877 ↓ S11906 RC/ 11/30/23

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Pyridine | 110-86-1 | SHBN7324 | 99% | 1,006.9 µg/mL | +/- 36.6352 |
| 2 | N-Nitrosodimethylamine | 62-75-9 | 230209JLM | 99% | 1,007.4 µg/mL | +/- 36.6514 |
| 3 | Phenol | 108-95-2 | MKCK1120 | 99% | 1,005.3 µg/mL | +/- 36.5746 |
| 4 | Aniline | 62-53-3 | X22F726 | 99% | 1,004.6 µg/mL | +/- 36.5503 |
| 5 | Bis(2-chloroethyl)ether | 111-44-4 | SHBL6942 | 99% | 1,005.1 µg/mL | +/- 36.5665 |
| 6 | 2-Chlorophenol | 95-57-8 | STBJ3909 | 99% | 1,007.1 µg/mL | +/- 36.6392 |
| 7 | 1,3-Dichlorobenzene | 541-73-1 | BCBZ7498 | 99% | 1,006.7 µg/mL | +/- 36.6251 |
| 8 | 1,4-Dichlorobenzene | 106-46-7 | MKBS7929V | 99% | 1,005.6 µg/mL | +/- 36.5867 |
| 9 | Benzyl alcohol | 100-51-6 | SHBK5943 | 99% | 1,005.4 µg/mL | +/- 36.5786 |
| 10 | 1,2-Dichlorobenzene | 95-50-1 | SHBN3835 | 99% | 1,003.9 µg/mL | +/- 36.5240 |
| 11 | 2-Methylphenol (o-cresol) | 95-48-7 | SHBN7598 | 99% | 1,002.3 µg/mL | +/- 36.4654 |
| 12 | 2,2'-oxybis(1-chloropropane) | 108-60-1 | 230329JLM | 99% | 1,004.3 µg/mL | +/- 36.5402 |
| 13 | 3-Methylphenol (m-cresol) | 108-39-4 | STBJ0710 | 99% | 502.1 µg/mL | +/- 18.2671 |
| 14 | 4-Methylphenol (p-cresol) | 106-44-5 | SHBN3411 | 99% | 501.9 µg/mL | +/- 18.2631 |
| 15 | N-Nitroso-di-n-propylamine | 621-64-7 | N63MG | 99% | 1,004.0 µg/mL | +/- 36.5281 |
| 16 | Hexachloroethane | 67-72-1 | QTORH | 99% | 1,006.1 µg/mL | +/- 36.6029 |
| 17 | Nitrobenzene | 98-95-3 | 10224044 | 99% | 1,003.1 µg/mL | +/- 36.4957 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 18 | Isophorone | 78-59-1 | MKCC9506 | 99% | 1,003.8 | µg/mL | +/- 36.5220 |
| 19 | 2-Nitrophenol | 88-75-5 | RP230509C | 99% | 1,005.8 | µg/mL | +/- 36.5948 |
| 20 | 2,4-Dimethylphenol | 105-67-9 | XW5GK | 99% | 1,004.2 | µg/mL | +/- 36.5341 |
| 21 | Bis(2-chloroethoxy)methane | 111-91-1 | 13670200 | 99% | 1,006.3 | µg/mL | +/- 36.6130 |
| 22 | 2,4-Dichlorophenol | 120-83-2 | BCBZ6787 | 99% | 1,004.0 | µg/mL | +/- 36.5281 |
| 23 | 1,2,4-Trichlorobenzene | 120-82-1 | SHBM0526 | 99% | 1,007.1 | µg/mL | +/- 36.6413 |
| 24 | Naphthalene | 91-20-3 | MKCH0219 | 99% | 1,006.7 | µg/mL | +/- 36.6271 |
| 25 | 4-Chloroaniline | 106-47-8 | WXBC4601V | 99% | 1,005.4 | µg/mL | +/- 36.5806 |
| 26 | Hexachlorobutadiene | 87-68-3 | X05J | 99% | 1,006.4 | µg/mL | +/- 36.6170 |
| 27 | 4-Chloro-3-methylphenol | 59-50-7 | BCCD4461 | 99% | 1,004.7 | µg/mL | +/- 36.5543 |
| 28 | 2-Methylnaphthalene | 91-57-6 | STBK0259 | 96% | 1,002.3 | µg/mL | +/- 36.4679 |
| 29 | 1-Methylnaphthalene | 90-12-0 | 5234.00-3 | 99% | 1,000.0 | µg/mL | +/- 36.3825 |
| 30 | Hexachlorocyclopentadiene | 77-47-4 | 0012019 | 99% | 1,006.1 | µg/mL | +/- 36.6049 |
| 31 | 2,4,6-Trichlorophenol | 88-06-2 | STBJ5914 | 99% | 1,004.9 | µg/mL | +/- 36.5604 |
| 32 | 2,4,5-Trichlorophenol | 95-95-4 | FHN01 | 98% | 1,006.5 | µg/mL | +/- 36.6176 |
| 33 | 2-Chloronaphthalene | 91-58-7 | RPN7O | 99% | 1,004.4 | µg/mL | +/- 36.5422 |
| 34 | 2-Nitroaniline | 88-74-4 | RP230509A | 99% | 1,002.3 | µg/mL | +/- 36.4654 |
| 35 | 1,4-Dinitrobenzene | 100-25-4 | RP230512A | 99% | 1,001.5 | µg/mL | +/- 36.4371 |
| 36 | Acenaphthylene | 208-96-8 | L10L | 95% | 1,003.4 | µg/mL | +/- 36.5066 |
| 37 | 1,3-Dinitrobenzene | 99-65-0 | 1-DXX-24-1 | 99% | 1,004.8 | µg/mL | +/- 36.5564 |
| 38 | Dimethylphthalate | 131-11-3 | 10117699 | 99% | 1,004.7 | µg/mL | +/- 36.5543 |
| 39 | 2,6-Dinitrotoluene | 606-20-2 | BCCG1833 | 99% | 1,006.8 | µg/mL | +/- 36.6312 |
| 40 | 1,2-Dinitrobenzene | 528-29-0 | RP230428 | 99% | 1,006.4 | µg/mL | +/- 36.6170 |
| 41 | Acenaphthene | 83-32-9 | MKCR7169 | 99% | 1,000.0 | µg/mL | +/- 36.3825 |
| 42 | 3-Nitroaniline | 99-09-2 | MKCH5457 | 99% | 1,004.8 | µg/mL | +/- 36.5584 |
| 43 | 2,4-Dinitrophenol | 51-28-5 | DR230417RSR | 99% | 1,005.8 | µg/mL | +/- 36.5948 |
| 44 | Dibenzofuran | 132-64-9 | MKCN1772 | 99% | 1,004.3 | µg/mL | +/- 36.5402 |
| 45 | 2,4-Dinitrotoluene | 121-14-2 | MKAA0690V | 99% | 1,005.8 | µg/mL | +/- 36.5928 |
| 46 | 4-Nitrophenol | 100-02-7 | RP230511A | 99% | 1,005.8 | µg/mL | +/- 36.5948 |
| 47 | 2,3,4,6-Tetrachlorophenol | 58-90-2 | PR-30126 | 99% | 1,005.9 | µg/mL | +/- 36.5988 |
| 48 | 2,3,5,6-Tetrachlorophenol | 935-95-5 | RP230513 | 99% | 1,004.9 | µg/mL | +/- 36.5624 |
| 49 | Fluorene | 86-73-7 | 10236068 | 99% | 1,005.4 | µg/mL | +/- 36.5806 |
| 50 | 4-Chlorophenyl phenyl ether | 7005-72-3 | MKCQ0984 | 99% | 1,004.3 | µg/mL | +/- 36.5382 |
| 51 | Diethylphthalate | 84-66-2 | BCCD3396 | 99% | 1,007.1 | µg/mL | +/- 36.6392 |
| 52 | 4-Nitroaniline | 100-01-6 | RP220906 | 99% | 1,005.3 | µg/mL | +/- 36.5766 |
| 53 | 4,6-Dinitro-2-methylphenol (Dinitro-o-cresol) | 534-52-1 | 230505JLM | 99% | 1,003.8 | µg/mL | +/- 36.5200 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 54 | Diphenylamine | 122-39-4 | MKCH1042 | 99% | 1,002.5 | µg/mL | +/- 36.4735 |
| 55 | Azobenzene | 103-33-3 | BCCG7339 | 98% | 1,003.5 | µg/mL | +/- 36.5106 |
| 56 | 4-Bromophenyl phenyl ether | 101-55-3 | STBH6361 | 99% | 1,005.6 | µg/mL | +/- 36.5847 |
| 57 | Hexachlorobenzene | 118-74-1 | 14257500 | 99% | 1,005.9 | µg/mL | +/- 36.5988 |
| 58 | Pentachlorophenol | 87-86-5 | RP230504 | 99% | 1,004.2 | µg/mL | +/- 36.5362 |
| 59 | Phenanthrene | 85-01-8 | MKCQ8876 | 99% | 1,004.1 | µg/mL | +/- 36.5321 |
| 60 | Anthracene | 120-12-7 | MKCR0570 | 99% | 1,008.3 | µg/mL | +/- 36.6857 |
| 61 | Carbazole | 86-74-8 | 14351100 | 99% | 1,005.1 | µg/mL | +/- 36.5665 |
| 62 | Di-n-butylphthalate | 84-74-2 | MKCN4337 | 99% | 1,006.4 | µg/mL | +/- 36.6170 |
| 63 | Fluoranthene | 206-44-0 | MKCQ4728 | 99% | 1,003.7 | µg/mL | +/- 36.5159 |
| 64 | Pyrene | 129-00-0 | BCCG7845 | 99% | 1,004.3 | µg/mL | +/- 36.5382 |
| 65 | Benzyl butyl phthalate | 85-68-7 | X12I018 | 99% | 1,003.4 | µg/mL | +/- 36.5058 |
| 66 | Bis(2-ethylhexyl)adipate | 103-23-1 | MKCM1988 | 99% | 1,003.4 | µg/mL | +/- 36.5079 |
| 67 | Benz(a)anthracene | 56-55-3 | 0012022BAA | 97% | 1,004.9 | µg/mL | +/- 36.5624 |
| 68 | Chrysene | 218-01-9 | RP230512B | 99% | 1,006.2 | µg/mL | +/- 36.6089 |
| 69 | Bis(2-ethylhexyl)phthalate | 117-81-7 | MKCQ3468 | 99% | 1,003.8 | µg/mL | +/- 36.5220 |
| 70 | Di-n-octyl phthalate | 117-84-0 | 13994100 | 99% | 1,004.2 | µg/mL | +/- 36.5341 |
| 71 | Benzo(b)fluoranthene | 205-99-2 | 012013B | 99% | 1,008.4 | µg/mL | +/- 36.6877 |
| 72 | Benzo(k)fluoranthene | 207-08-9 | 012022K | 99% | 1,004.1 | µg/mL | +/- 36.5301 |
| 73 | Benzo(a)pyrene | 50-32-8 | J6IUE | 99% | 1,006.4 | µg/mL | +/- 36.6170 |
| 74 | Indeno(1,2,3-cd)pyrene | 193-39-5 | 12-JKL-118-9 | 97% | 1,002.0 | µg/mL | +/- 36.4557 |
| 75 | Dibenz(a,h)anthracene | 53-70-3 | ER032211-01 | 99% | 1,006.1 | µg/mL | +/- 36.6029 |
| 76 | Benzo(g,h,i)perylene | 191-24-2 | RP230511B | 98% | 1,006.8 | µg/mL | +/- 36.6295 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

# Quality Confirmation Test

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

**Carrier Gas:**
hydrogen-constant flow 1.8 mL/min.

**Temp. Program:**
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

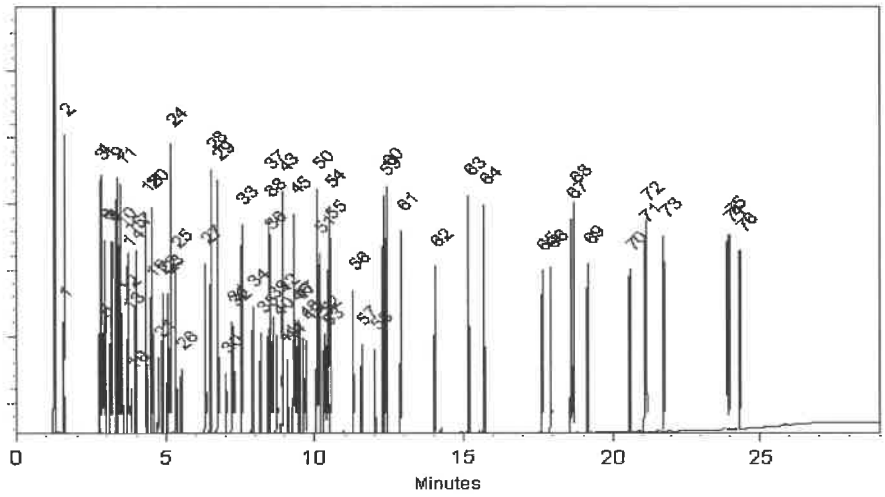
**Inj. Temp:**
250°C

**Det. Temp:**
340°C

**Det. Type:**
FID

**Split Vent:**
100 ml/min.

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

**Date Mixed:** 11-May-2023 **Balance Serial #** 1128353505

Christie Mills - Operations Tech II - ARM QC

**Date Passed:** 18-May-2023

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

***chromatographic plus***

ACCREDITED
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Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31850 **Lot No.:** A0197982

**Description :** 8270 MegaMix®

8270 MegaMix® 500-1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** November 30, 2024 **Storage:** 0°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

S11877 ↓ S11906 RC 11/30/23

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Pyridine | 110-86-1 | SHBN7324 | 99% | 1,006.9 µg/mL | +/- 36.6352 |
| 2 | N-Nitrosodimethylamine | 62-75-9 | 230209JLM | 99% | 1,007.4 µg/mL | +/- 36.6514 |
| 3 | Phenol | 108-95-2 | MKCK1120 | 99% | 1,005.3 µg/mL | +/- 36.5746 |
| 4 | Aniline | 62-53-3 | X22F726 | 99% | 1,004.6 µg/mL | +/- 36.5503 |
| 5 | Bis(2-chloroethyl)ether | 111-44-4 | SHBL6942 | 99% | 1,005.1 µg/mL | +/- 36.5665 |
| 6 | 2-Chlorophenol | 95-57-8 | STBJ3909 | 99% | 1,007.1 µg/mL | +/- 36.6392 |
| 7 | 1,3-Dichlorobenzene | 541-73-1 | BCBZ7498 | 99% | 1,006.7 µg/mL | +/- 36.6251 |
| 8 | 1,4-Dichlorobenzene | 106-46-7 | MKBS7929V | 99% | 1,005.6 µg/mL | +/- 36.5867 |
| 9 | Benzyl alcohol | 100-51-6 | SHBK5943 | 99% | 1,005.4 µg/mL | +/- 36.5786 |
| 10 | 1,2-Dichlorobenzene | 95-50-1 | SHBN3835 | 99% | 1,003.9 µg/mL | +/- 36.5240 |
| 11 | 2-Methylphenol (o-cresol) | 95-48-7 | SHBN7598 | 99% | 1,002.3 µg/mL | +/- 36.4654 |
| 12 | 2,2'-oxybis(1-chloropropane) | 108-60-1 | 230329JLM | 99% | 1,004.3 µg/mL | +/- 36.5402 |
| 13 | 3-Methylphenol (m-cresol) | 108-39-4 | STBJ0710 | 99% | 502.1 µg/mL | +/- 18.2671 |
| 14 | 4-Methylphenol (p-cresol) | 106-44-5 | SHBN3411 | 99% | 501.9 µg/mL | +/- 18.2631 |
| 15 | N-Nitroso-di-n-propylamine | 621-64-7 | N63MG | 99% | 1,004.0 µg/mL | +/- 36.5281 |
| 16 | Hexachloroethane | 67-72-1 | QTORH | 99% | 1,006.1 µg/mL | +/- 36.6029 |
| 17 | Nitrobenzene | 98-95-3 | 10224044 | 99% | 1,003.1 µg/mL | +/- 36.4957 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 18 | Isophorone | 78-59-1 | MKCC9506 | 99% | 1,003.8 | µg/mL | +/- 36.5220 |
| 19 | 2-Nitrophenol | 88-75-5 | RP230509C | 99% | 1,005.8 | µg/mL | +/- 36.5948 |
| 20 | 2,4-Dimethylphenol | 105-67-9 | XW5GK | 99% | 1,004.2 | µg/mL | +/- 36.5341 |
| 21 | Bis(2-chloroethoxy)methane | 111-91-1 | 13670200 | 99% | 1,006.3 | µg/mL | +/- 36.6130 |
| 22 | 2,4-Dichlorophenol | 120-83-2 | BCBZ6787 | 99% | 1,004.0 | µg/mL | +/- 36.5281 |
| 23 | 1,2,4-Trichlorobenzene | 120-82-1 | SHBM0526 | 99% | 1,007.1 | µg/mL | +/- 36.6413 |
| 24 | Naphthalene | 91-20-3 | MKCH0219 | 99% | 1,006.7 | µg/mL | +/- 36.6271 |
| 25 | 4-Chloroaniline | 106-47-8 | WXBC4601V | 99% | 1,005.4 | µg/mL | +/- 36.5806 |
| 26 | Hexachlorobutadiene | 87-68-3 | X05J | 99% | 1,006.4 | µg/mL | +/- 36.6170 |
| 27 | 4-Chloro-3-methylphenol | 59-50-7 | BCCD4461 | 99% | 1,004.7 | µg/mL | +/- 36.5543 |
| 28 | 2-Methylnaphthalene | 91-57-6 | STBK0259 | 96% | 1,002.3 | µg/mL | +/- 36.4679 |
| 29 | 1-Methylnaphthalene | 90-12-0 | 5234.00-3 | 99% | 1,000.0 | µg/mL | +/- 36.3825 |
| 30 | Hexachlorocyclopentadiene | 77-47-4 | 0012019 | 99% | 1,006.1 | µg/mL | +/- 36.6049 |
| 31 | 2,4,6-Trichlorophenol | 88-06-2 | STBJ5914 | 99% | 1,004.9 | µg/mL | +/- 36.5604 |
| 32 | 2,4,5-Trichlorophenol | 95-95-4 | FHN01 | 98% | 1,006.5 | µg/mL | +/- 36.6176 |
| 33 | 2-Chloronaphthalene | 91-58-7 | RPN7O | 99% | 1,004.4 | µg/mL | +/- 36.5422 |
| 34 | 2-Nitroaniline | 88-74-4 | RP230509A | 99% | 1,002.3 | µg/mL | +/- 36.4654 |
| 35 | 1,4-Dinitrobenzene | 100-25-4 | RP230512A | 99% | 1,001.5 | µg/mL | +/- 36.4371 |
| 36 | Acenaphthylene | 208-96-8 | L10L | 95% | 1,003.4 | µg/mL | +/- 36.5066 |
| 37 | 1,3-Dinitrobenzene | 99-65-0 | 1-DXX-24-1 | 99% | 1,004.8 | µg/mL | +/- 36.5564 |
| 38 | Dimethylphthalate | 131-11-3 | 10117699 | 99% | 1,004.7 | µg/mL | +/- 36.5543 |
| 39 | 2,6-Dinitrotoluene | 606-20-2 | BCCG1833 | 99% | 1,006.8 | µg/mL | +/- 36.6312 |
| 40 | 1,2-Dinitrobenzene | 528-29-0 | RP230428 | 99% | 1,006.4 | µg/mL | +/- 36.6170 |
| 41 | Acenaphthene | 83-32-9 | MKCR7169 | 99% | 1,000.0 | µg/mL | +/- 36.3825 |
| 42 | 3-Nitroaniline | 99-09-2 | MKCH5457 | 99% | 1,004.8 | µg/mL | +/- 36.5584 |
| 43 | 2,4-Dinitrophenol | 51-28-5 | DR230417RSR | 99% | 1,005.8 | µg/mL | +/- 36.5948 |
| 44 | Dibenzofuran | 132-64-9 | MKCN1772 | 99% | 1,004.3 | µg/mL | +/- 36.5402 |
| 45 | 2,4-Dinitrotoluene | 121-14-2 | MKAA0690V | 99% | 1,005.8 | µg/mL | +/- 36.5928 |
| 46 | 4-Nitrophenol | 100-02-7 | RP230511A | 99% | 1,005.8 | µg/mL | +/- 36.5948 |
| 47 | 2,3,4,6-Tetrachlorophenol | 58-90-2 | PR-30126 | 99% | 1,005.9 | µg/mL | +/- 36.5988 |
| 48 | 2,3,5,6-Tetrachlorophenol | 935-95-5 | RP230513 | 99% | 1,004.9 | µg/mL | +/- 36.5624 |
| 49 | Fluorene | 86-73-7 | 10236068 | 99% | 1,005.4 | µg/mL | +/- 36.5806 |
| 50 | 4-Chlorophenyl phenyl ether | 7005-72-3 | MKCQ0984 | 99% | 1,004.3 | µg/mL | +/- 36.5382 |
| 51 | Diethylphthalate | 84-66-2 | BCCD3396 | 99% | 1,007.1 | µg/mL | +/- 36.6392 |
| 52 | 4-Nitroaniline | 100-01-6 | RP220906 | 99% | 1,005.3 | µg/mL | +/- 36.5766 |
| 53 | 4,6-Dinitro-2-methylphenol (Dinitro-o-cresol) | 534-52-1 | 230505JLM | 99% | 1,003.8 | µg/mL | +/- 36.5200 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 54 | Diphenylamine | 122-39-4 | MKCH1042 | 99% | 1,002.5 | µg/mL | +/- 36.4735 |
| 55 | Azobenzene | 103-33-3 | BCCG7339 | 98% | 1,003.5 | µg/mL | +/- 36.5106 |
| 56 | 4-Bromophenyl phenyl ether | 101-55-3 | STBH6361 | 99% | 1,005.6 | µg/mL | +/- 36.5847 |
| 57 | Hexachlorobenzene | 118-74-1 | 14257500 | 99% | 1,005.9 | µg/mL | +/- 36.5988 |
| 58 | Pentachlorophenol | 87-86-5 | RP230504 | 99% | 1,004.2 | µg/mL | +/- 36.5362 |
| 59 | Phenanthrene | 85-01-8 | MKCQ8876 | 99% | 1,004.1 | µg/mL | +/- 36.5321 |
| 60 | Anthracene | 120-12-7 | MKCR0570 | 99% | 1,008.3 | µg/mL | +/- 36.6857 |
| 61 | Carbazole | 86-74-8 | 14351100 | 99% | 1,005.1 | µg/mL | +/- 36.5665 |
| 62 | Di-n-butylphthalate | 84-74-2 | MKCN4337 | 99% | 1,006.4 | µg/mL | +/- 36.6170 |
| 63 | Fluoranthene | 206-44-0 | MKCQ4728 | 99% | 1,003.7 | µg/mL | +/- 36.5159 |
| 64 | Pyrene | 129-00-0 | BCCG7845 | 99% | 1,004.3 | µg/mL | +/- 36.5382 |
| 65 | Benzyl butyl phthalate | 85-68-7 | X12I018 | 99% | 1,003.4 | µg/mL | +/- 36.5058 |
| 66 | Bis(2-ethylhexyl)adipate | 103-23-1 | MKCM1988 | 99% | 1,003.4 | µg/mL | +/- 36.5079 |
| 67 | Benz(a)anthracene | 56-55-3 | 0012022BAA | 97% | 1,004.9 | µg/mL | +/- 36.5624 |
| 68 | Chrysene | 218-01-9 | RP230512B | 99% | 1,006.2 | µg/mL | +/- 36.6089 |
| 69 | Bis(2-ethylhexyl)phthalate | 117-81-7 | MKCQ3468 | 99% | 1,003.8 | µg/mL | +/- 36.5220 |
| 70 | Di-n-octyl phthalate | 117-84-0 | 13994100 | 99% | 1,004.2 | µg/mL | +/- 36.5341 |
| 71 | Benzo(b)fluoranthene | 205-99-2 | 012013B | 99% | 1,008.4 | µg/mL | +/- 36.6877 |
| 72 | Benzo(k)fluoranthene | 207-08-9 | 012022K | 99% | 1,004.1 | µg/mL | +/- 36.5301 |
| 73 | Benzo(a)pyrene | 50-32-8 | J6IUE | 99% | 1,006.4 | µg/mL | +/- 36.6170 |
| 74 | Indeno(1,2,3-cd)pyrene | 193-39-5 | 12-JKL-118-9 | 97% | 1,002.0 | µg/mL | +/- 36.4557 |
| 75 | Dibenz(a,h)anthracene | 53-70-3 | ER032211-01 | 99% | 1,006.1 | µg/mL | +/- 36.6029 |
| 76 | Benzo(g,h,i)perylene | 191-24-2 | RP230511B | 98% | 1,006.8 | µg/mL | +/- 36.6295 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

# Quality Confirmation Test

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

**Carrier Gas:**
hydrogen-constant flow 1.8 mL/min.

**Temp. Program:**
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

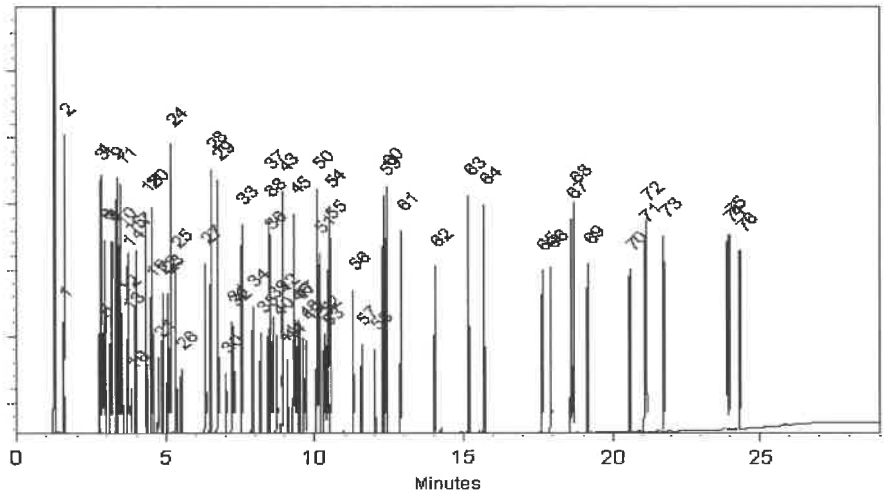
**Inj. Temp:**
250°C

**Det. Temp:**
340°C

**Det. Type:**
FID

**Split Vent:**
100 ml/min.

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

**Date Mixed:** 11-May-2023 **Balance Serial #** 1128353505

Christie Mills - Operations Tech II - ARM QC

**Date Passed:** 18-May-2023

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

***chromatographic plus***

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Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31850 **Lot No.:** A0197982

**Description :** 8270 MegaMix®

8270 MegaMix® 500-1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** November 30, 2024 **Storage:** 0°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

S11877 ↓ S11906 RC 11/30/23

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Pyridine | 110-86-1 | SHBN7324 | 99% | 1,006.9 µg/mL | +/- 36.6352 |
| 2 | N-Nitrosodimethylamine | 62-75-9 | 230209JLM | 99% | 1,007.4 µg/mL | +/- 36.6514 |
| 3 | Phenol | 108-95-2 | MKCK1120 | 99% | 1,005.3 µg/mL | +/- 36.5746 |
| 4 | Aniline | 62-53-3 | X22F726 | 99% | 1,004.6 µg/mL | +/- 36.5503 |
| 5 | Bis(2-chloroethyl)ether | 111-44-4 | SHBL6942 | 99% | 1,005.1 µg/mL | +/- 36.5665 |
| 6 | 2-Chlorophenol | 95-57-8 | STBJ3909 | 99% | 1,007.1 µg/mL | +/- 36.6392 |
| 7 | 1,3-Dichlorobenzene | 541-73-1 | BCBZ7498 | 99% | 1,006.7 µg/mL | +/- 36.6251 |
| 8 | 1,4-Dichlorobenzene | 106-46-7 | MKBS7929V | 99% | 1,005.6 µg/mL | +/- 36.5867 |
| 9 | Benzyl alcohol | 100-51-6 | SHBK5943 | 99% | 1,005.4 µg/mL | +/- 36.5786 |
| 10 | 1,2-Dichlorobenzene | 95-50-1 | SHBN3835 | 99% | 1,003.9 µg/mL | +/- 36.5240 |
| 11 | 2-Methylphenol (o-cresol) | 95-48-7 | SHBN7598 | 99% | 1,002.3 µg/mL | +/- 36.4654 |
| 12 | 2,2'-oxybis(1-chloropropane) | 108-60-1 | 230329JLM | 99% | 1,004.3 µg/mL | +/- 36.5402 |
| 13 | 3-Methylphenol (m-cresol) | 108-39-4 | STBJ0710 | 99% | 502.1 µg/mL | +/- 18.2671 |
| 14 | 4-Methylphenol (p-cresol) | 106-44-5 | SHBN3411 | 99% | 501.9 µg/mL | +/- 18.2631 |
| 15 | N-Nitroso-di-n-propylamine | 621-64-7 | N63MG | 99% | 1,004.0 µg/mL | +/- 36.5281 |
| 16 | Hexachloroethane | 67-72-1 | QTORH | 99% | 1,006.1 µg/mL | +/- 36.6029 |
| 17 | Nitrobenzene | 98-95-3 | 10224044 | 99% | 1,003.1 µg/mL | +/- 36.4957 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 18 | Isophorone | 78-59-1 | MKCC9506 | 99% | 1,003.8 | µg/mL | +/- 36.5220 |
| 19 | 2-Nitrophenol | 88-75-5 | RP230509C | 99% | 1,005.8 | µg/mL | +/- 36.5948 |
| 20 | 2,4-Dimethylphenol | 105-67-9 | XW5GK | 99% | 1,004.2 | µg/mL | +/- 36.5341 |
| 21 | Bis(2-chloroethoxy)methane | 111-91-1 | 13670200 | 99% | 1,006.3 | µg/mL | +/- 36.6130 |
| 22 | 2,4-Dichlorophenol | 120-83-2 | BCBZ6787 | 99% | 1,004.0 | µg/mL | +/- 36.5281 |
| 23 | 1,2,4-Trichlorobenzene | 120-82-1 | SHBM0526 | 99% | 1,007.1 | µg/mL | +/- 36.6413 |
| 24 | Naphthalene | 91-20-3 | MKCH0219 | 99% | 1,006.7 | µg/mL | +/- 36.6271 |
| 25 | 4-Chloroaniline | 106-47-8 | WXBC4601V | 99% | 1,005.4 | µg/mL | +/- 36.5806 |
| 26 | Hexachlorobutadiene | 87-68-3 | X05J | 99% | 1,006.4 | µg/mL | +/- 36.6170 |
| 27 | 4-Chloro-3-methylphenol | 59-50-7 | BCCD4461 | 99% | 1,004.7 | µg/mL | +/- 36.5543 |
| 28 | 2-Methylnaphthalene | 91-57-6 | STBK0259 | 96% | 1,002.3 | µg/mL | +/- 36.4679 |
| 29 | 1-Methylnaphthalene | 90-12-0 | 5234.00-3 | 99% | 1,000.0 | µg/mL | +/- 36.3825 |
| 30 | Hexachlorocyclopentadiene | 77-47-4 | 0012019 | 99% | 1,006.1 | µg/mL | +/- 36.6049 |
| 31 | 2,4,6-Trichlorophenol | 88-06-2 | STBJ5914 | 99% | 1,004.9 | µg/mL | +/- 36.5604 |
| 32 | 2,4,5-Trichlorophenol | 95-95-4 | FHN01 | 98% | 1,006.5 | µg/mL | +/- 36.6176 |
| 33 | 2-Chloronaphthalene | 91-58-7 | RPN7O | 99% | 1,004.4 | µg/mL | +/- 36.5422 |
| 34 | 2-Nitroaniline | 88-74-4 | RP230509A | 99% | 1,002.3 | µg/mL | +/- 36.4654 |
| 35 | 1,4-Dinitrobenzene | 100-25-4 | RP230512A | 99% | 1,001.5 | µg/mL | +/- 36.4371 |
| 36 | Acenaphthylene | 208-96-8 | L10L | 95% | 1,003.4 | µg/mL | +/- 36.5066 |
| 37 | 1,3-Dinitrobenzene | 99-65-0 | 1-DXX-24-1 | 99% | 1,004.8 | µg/mL | +/- 36.5564 |
| 38 | Dimethylphthalate | 131-11-3 | 10117699 | 99% | 1,004.7 | µg/mL | +/- 36.5543 |
| 39 | 2,6-Dinitrotoluene | 606-20-2 | BCCG1833 | 99% | 1,006.8 | µg/mL | +/- 36.6312 |
| 40 | 1,2-Dinitrobenzene | 528-29-0 | RP230428 | 99% | 1,006.4 | µg/mL | +/- 36.6170 |
| 41 | Acenaphthene | 83-32-9 | MKCR7169 | 99% | 1,000.0 | µg/mL | +/- 36.3825 |
| 42 | 3-Nitroaniline | 99-09-2 | MKCH5457 | 99% | 1,004.8 | µg/mL | +/- 36.5584 |
| 43 | 2,4-Dinitrophenol | 51-28-5 | DR230417RSR | 99% | 1,005.8 | µg/mL | +/- 36.5948 |
| 44 | Dibenzofuran | 132-64-9 | MKCN1772 | 99% | 1,004.3 | µg/mL | +/- 36.5402 |
| 45 | 2,4-Dinitrotoluene | 121-14-2 | MKAA0690V | 99% | 1,005.8 | µg/mL | +/- 36.5928 |
| 46 | 4-Nitrophenol | 100-02-7 | RP230511A | 99% | 1,005.8 | µg/mL | +/- 36.5948 |
| 47 | 2,3,4,6-Tetrachlorophenol | 58-90-2 | PR-30126 | 99% | 1,005.9 | µg/mL | +/- 36.5988 |
| 48 | 2,3,5,6-Tetrachlorophenol | 935-95-5 | RP230513 | 99% | 1,004.9 | µg/mL | +/- 36.5624 |
| 49 | Fluorene | 86-73-7 | 10236068 | 99% | 1,005.4 | µg/mL | +/- 36.5806 |
| 50 | 4-Chlorophenyl phenyl ether | 7005-72-3 | MKCQ0984 | 99% | 1,004.3 | µg/mL | +/- 36.5382 |
| 51 | Diethylphthalate | 84-66-2 | BCCD3396 | 99% | 1,007.1 | µg/mL | +/- 36.6392 |
| 52 | 4-Nitroaniline | 100-01-6 | RP220906 | 99% | 1,005.3 | µg/mL | +/- 36.5766 |
| 53 | 4,6-Dinitro-2-methylphenol (Dinitro-o-cresol) | 534-52-1 | 230505JLM | 99% | 1,003.8 | µg/mL | +/- 36.5200 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 54 | Diphenylamine | 122-39-4 | MKCH1042 | 99% | 1,002.5 | µg/mL | +/- 36.4735 |
| 55 | Azobenzene | 103-33-3 | BCCG7339 | 98% | 1,003.5 | µg/mL | +/- 36.5106 |
| 56 | 4-Bromophenyl phenyl ether | 101-55-3 | STBH6361 | 99% | 1,005.6 | µg/mL | +/- 36.5847 |
| 57 | Hexachlorobenzene | 118-74-1 | 14257500 | 99% | 1,005.9 | µg/mL | +/- 36.5988 |
| 58 | Pentachlorophenol | 87-86-5 | RP230504 | 99% | 1,004.2 | µg/mL | +/- 36.5362 |
| 59 | Phenanthrene | 85-01-8 | MKCQ8876 | 99% | 1,004.1 | µg/mL | +/- 36.5321 |
| 60 | Anthracene | 120-12-7 | MKCR0570 | 99% | 1,008.3 | µg/mL | +/- 36.6857 |
| 61 | Carbazole | 86-74-8 | 14351100 | 99% | 1,005.1 | µg/mL | +/- 36.5665 |
| 62 | Di-n-butylphthalate | 84-74-2 | MKCN4337 | 99% | 1,006.4 | µg/mL | +/- 36.6170 |
| 63 | Fluoranthene | 206-44-0 | MKCQ4728 | 99% | 1,003.7 | µg/mL | +/- 36.5159 |
| 64 | Pyrene | 129-00-0 | BCCG7845 | 99% | 1,004.3 | µg/mL | +/- 36.5382 |
| 65 | Benzyl butyl phthalate | 85-68-7 | X12I018 | 99% | 1,003.4 | µg/mL | +/- 36.5058 |
| 66 | Bis(2-ethylhexyl)adipate | 103-23-1 | MKCM1988 | 99% | 1,003.4 | µg/mL | +/- 36.5079 |
| 67 | Benz(a)anthracene | 56-55-3 | 0012022BAA | 97% | 1,004.9 | µg/mL | +/- 36.5624 |
| 68 | Chrysene | 218-01-9 | RP230512B | 99% | 1,006.2 | µg/mL | +/- 36.6089 |
| 69 | Bis(2-ethylhexyl)phthalate | 117-81-7 | MKCQ3468 | 99% | 1,003.8 | µg/mL | +/- 36.5220 |
| 70 | Di-n-octyl phthalate | 117-84-0 | 13994100 | 99% | 1,004.2 | µg/mL | +/- 36.5341 |
| 71 | Benzo(b)fluoranthene | 205-99-2 | 012013B | 99% | 1,008.4 | µg/mL | +/- 36.6877 |
| 72 | Benzo(k)fluoranthene | 207-08-9 | 012022K | 99% | 1,004.1 | µg/mL | +/- 36.5301 |
| 73 | Benzo(a)pyrene | 50-32-8 | J6IUE | 99% | 1,006.4 | µg/mL | +/- 36.6170 |
| 74 | Indeno(1,2,3-cd)pyrene | 193-39-5 | 12-JKL-118-9 | 97% | 1,002.0 | µg/mL | +/- 36.4557 |
| 75 | Dibenz(a,h)anthracene | 53-70-3 | ER032211-01 | 99% | 1,006.1 | µg/mL | +/- 36.6029 |
| 76 | Benzo(g,h,i)perylene | 191-24-2 | RP230511B | 98% | 1,006.8 | µg/mL | +/- 36.6295 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

# Quality Confirmation Test

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

**Carrier Gas:**
hydrogen-constant flow 1.8 mL/min.

**Temp. Program:**
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

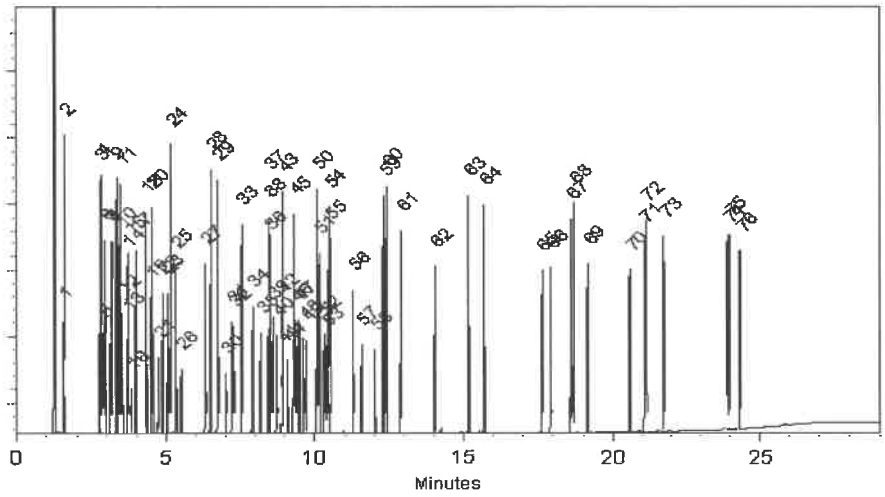
**Inj. Temp:**
250°C

**Det. Temp:**
340°C

**Det. Type:**
FID

**Split Vent:**
100 ml/min.

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

**Date Mixed:** 11-May-2023 **Balance Serial #** 1128353505

Christie Mills - Operations Tech II - ARM QC

**Date Passed:** 18-May-2023

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

***chromatographic plus***

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Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31850 **Lot No.:** A0197982

**Description :** 8270 MegaMix®

8270 MegaMix® 500-1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** November 30, 2024 **Storage:** 0°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

S11877 ↓ S11906 RC 11/30/23

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Pyridine | 110-86-1 | SHBN7324 | 99% | 1,006.9 µg/mL | +/- 36.6352 |
| 2 | N-Nitrosodimethylamine | 62-75-9 | 230209JLM | 99% | 1,007.4 µg/mL | +/- 36.6514 |
| 3 | Phenol | 108-95-2 | MKCK1120 | 99% | 1,005.3 µg/mL | +/- 36.5746 |
| 4 | Aniline | 62-53-3 | X22F726 | 99% | 1,004.6 µg/mL | +/- 36.5503 |
| 5 | Bis(2-chloroethyl)ether | 111-44-4 | SHBL6942 | 99% | 1,005.1 µg/mL | +/- 36.5665 |
| 6 | 2-Chlorophenol | 95-57-8 | STBJ3909 | 99% | 1,007.1 µg/mL | +/- 36.6392 |
| 7 | 1,3-Dichlorobenzene | 541-73-1 | BCBZ7498 | 99% | 1,006.7 µg/mL | +/- 36.6251 |
| 8 | 1,4-Dichlorobenzene | 106-46-7 | MKBS7929V | 99% | 1,005.6 µg/mL | +/- 36.5867 |
| 9 | Benzyl alcohol | 100-51-6 | SHBK5943 | 99% | 1,005.4 µg/mL | +/- 36.5786 |
| 10 | 1,2-Dichlorobenzene | 95-50-1 | SHBN3835 | 99% | 1,003.9 µg/mL | +/- 36.5240 |
| 11 | 2-Methylphenol (o-cresol) | 95-48-7 | SHBN7598 | 99% | 1,002.3 µg/mL | +/- 36.4654 |
| 12 | 2,2'-oxybis(1-chloropropane) | 108-60-1 | 230329JLM | 99% | 1,004.3 µg/mL | +/- 36.5402 |
| 13 | 3-Methylphenol (m-cresol) | 108-39-4 | STBJ0710 | 99% | 502.1 µg/mL | +/- 18.2671 |
| 14 | 4-Methylphenol (p-cresol) | 106-44-5 | SHBN3411 | 99% | 501.9 µg/mL | +/- 18.2631 |
| 15 | N-Nitroso-di-n-propylamine | 621-64-7 | N63MG | 99% | 1,004.0 µg/mL | +/- 36.5281 |
| 16 | Hexachloroethane | 67-72-1 | QTORH | 99% | 1,006.1 µg/mL | +/- 36.6029 |
| 17 | Nitrobenzene | 98-95-3 | 10224044 | 99% | 1,003.1 µg/mL | +/- 36.4957 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 18 | Isophorone | 78-59-1 | MKCC9506 | 99% | 1,003.8 | µg/mL | +/- 36.5220 |
| 19 | 2-Nitrophenol | 88-75-5 | RP230509C | 99% | 1,005.8 | µg/mL | +/- 36.5948 |
| 20 | 2,4-Dimethylphenol | 105-67-9 | XW5GK | 99% | 1,004.2 | µg/mL | +/- 36.5341 |
| 21 | Bis(2-chloroethoxy)methane | 111-91-1 | 13670200 | 99% | 1,006.3 | µg/mL | +/- 36.6130 |
| 22 | 2,4-Dichlorophenol | 120-83-2 | BCBZ6787 | 99% | 1,004.0 | µg/mL | +/- 36.5281 |
| 23 | 1,2,4-Trichlorobenzene | 120-82-1 | SHBM0526 | 99% | 1,007.1 | µg/mL | +/- 36.6413 |
| 24 | Naphthalene | 91-20-3 | MKCH0219 | 99% | 1,006.7 | µg/mL | +/- 36.6271 |
| 25 | 4-Chloroaniline | 106-47-8 | WXBC4601V | 99% | 1,005.4 | µg/mL | +/- 36.5806 |
| 26 | Hexachlorobutadiene | 87-68-3 | X05J | 99% | 1,006.4 | µg/mL | +/- 36.6170 |
| 27 | 4-Chloro-3-methylphenol | 59-50-7 | BCCD4461 | 99% | 1,004.7 | µg/mL | +/- 36.5543 |
| 28 | 2-Methylnaphthalene | 91-57-6 | STBK0259 | 96% | 1,002.3 | µg/mL | +/- 36.4679 |
| 29 | 1-Methylnaphthalene | 90-12-0 | 5234.00-3 | 99% | 1,000.0 | µg/mL | +/- 36.3825 |
| 30 | Hexachlorocyclopentadiene | 77-47-4 | 0012019 | 99% | 1,006.1 | µg/mL | +/- 36.6049 |
| 31 | 2,4,6-Trichlorophenol | 88-06-2 | STBJ5914 | 99% | 1,004.9 | µg/mL | +/- 36.5604 |
| 32 | 2,4,5-Trichlorophenol | 95-95-4 | FHN01 | 98% | 1,006.5 | µg/mL | +/- 36.6176 |
| 33 | 2-Chloronaphthalene | 91-58-7 | RPN7O | 99% | 1,004.4 | µg/mL | +/- 36.5422 |
| 34 | 2-Nitroaniline | 88-74-4 | RP230509A | 99% | 1,002.3 | µg/mL | +/- 36.4654 |
| 35 | 1,4-Dinitrobenzene | 100-25-4 | RP230512A | 99% | 1,001.5 | µg/mL | +/- 36.4371 |
| 36 | Acenaphthylene | 208-96-8 | L10L | 95% | 1,003.4 | µg/mL | +/- 36.5066 |
| 37 | 1,3-Dinitrobenzene | 99-65-0 | 1-DXX-24-1 | 99% | 1,004.8 | µg/mL | +/- 36.5564 |
| 38 | Dimethylphthalate | 131-11-3 | 10117699 | 99% | 1,004.7 | µg/mL | +/- 36.5543 |
| 39 | 2,6-Dinitrotoluene | 606-20-2 | BCCG1833 | 99% | 1,006.8 | µg/mL | +/- 36.6312 |
| 40 | 1,2-Dinitrobenzene | 528-29-0 | RP230428 | 99% | 1,006.4 | µg/mL | +/- 36.6170 |
| 41 | Acenaphthene | 83-32-9 | MKCR7169 | 99% | 1,000.0 | µg/mL | +/- 36.3825 |
| 42 | 3-Nitroaniline | 99-09-2 | MKCH5457 | 99% | 1,004.8 | µg/mL | +/- 36.5584 |
| 43 | 2,4-Dinitrophenol | 51-28-5 | DR230417RSR | 99% | 1,005.8 | µg/mL | +/- 36.5948 |
| 44 | Dibenzofuran | 132-64-9 | MKCN1772 | 99% | 1,004.3 | µg/mL | +/- 36.5402 |
| 45 | 2,4-Dinitrotoluene | 121-14-2 | MKAA0690V | 99% | 1,005.8 | µg/mL | +/- 36.5928 |
| 46 | 4-Nitrophenol | 100-02-7 | RP230511A | 99% | 1,005.8 | µg/mL | +/- 36.5948 |
| 47 | 2,3,4,6-Tetrachlorophenol | 58-90-2 | PR-30126 | 99% | 1,005.9 | µg/mL | +/- 36.5988 |
| 48 | 2,3,5,6-Tetrachlorophenol | 935-95-5 | RP230513 | 99% | 1,004.9 | µg/mL | +/- 36.5624 |
| 49 | Fluorene | 86-73-7 | 10236068 | 99% | 1,005.4 | µg/mL | +/- 36.5806 |
| 50 | 4-Chlorophenyl phenyl ether | 7005-72-3 | MKCQ0984 | 99% | 1,004.3 | µg/mL | +/- 36.5382 |
| 51 | Diethylphthalate | 84-66-2 | BCCD3396 | 99% | 1,007.1 | µg/mL | +/- 36.6392 |
| 52 | 4-Nitroaniline | 100-01-6 | RP220906 | 99% | 1,005.3 | µg/mL | +/- 36.5766 |
| 53 | 4,6-Dinitro-2-methylphenol (Dinitro-o-cresol) | 534-52-1 | 230505JLM | 99% | 1,003.8 | µg/mL | +/- 36.5200 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 54 | Diphenylamine | 122-39-4 | MKCH1042 | 99% | 1,002.5 | µg/mL | +/- 36.4735 |
| 55 | Azobenzene | 103-33-3 | BCCG7339 | 98% | 1,003.5 | µg/mL | +/- 36.5106 |
| 56 | 4-Bromophenyl phenyl ether | 101-55-3 | STBH6361 | 99% | 1,005.6 | µg/mL | +/- 36.5847 |
| 57 | Hexachlorobenzene | 118-74-1 | 14257500 | 99% | 1,005.9 | µg/mL | +/- 36.5988 |
| 58 | Pentachlorophenol | 87-86-5 | RP230504 | 99% | 1,004.2 | µg/mL | +/- 36.5362 |
| 59 | Phenanthrene | 85-01-8 | MKCQ8876 | 99% | 1,004.1 | µg/mL | +/- 36.5321 |
| 60 | Anthracene | 120-12-7 | MKCR0570 | 99% | 1,008.3 | µg/mL | +/- 36.6857 |
| 61 | Carbazole | 86-74-8 | 14351100 | 99% | 1,005.1 | µg/mL | +/- 36.5665 |
| 62 | Di-n-butylphthalate | 84-74-2 | MKCN4337 | 99% | 1,006.4 | µg/mL | +/- 36.6170 |
| 63 | Fluoranthene | 206-44-0 | MKCQ4728 | 99% | 1,003.7 | µg/mL | +/- 36.5159 |
| 64 | Pyrene | 129-00-0 | BCCG7845 | 99% | 1,004.3 | µg/mL | +/- 36.5382 |
| 65 | Benzyl butyl phthalate | 85-68-7 | X12I018 | 99% | 1,003.4 | µg/mL | +/- 36.5058 |
| 66 | Bis(2-ethylhexyl)adipate | 103-23-1 | MKCM1988 | 99% | 1,003.4 | µg/mL | +/- 36.5079 |
| 67 | Benz(a)anthracene | 56-55-3 | 0012022BAA | 97% | 1,004.9 | µg/mL | +/- 36.5624 |
| 68 | Chrysene | 218-01-9 | RP230512B | 99% | 1,006.2 | µg/mL | +/- 36.6089 |
| 69 | Bis(2-ethylhexyl)phthalate | 117-81-7 | MKCQ3468 | 99% | 1,003.8 | µg/mL | +/- 36.5220 |
| 70 | Di-n-octyl phthalate | 117-84-0 | 13994100 | 99% | 1,004.2 | µg/mL | +/- 36.5341 |
| 71 | Benzo(b)fluoranthene | 205-99-2 | 012013B | 99% | 1,008.4 | µg/mL | +/- 36.6877 |
| 72 | Benzo(k)fluoranthene | 207-08-9 | 012022K | 99% | 1,004.1 | µg/mL | +/- 36.5301 |
| 73 | Benzo(a)pyrene | 50-32-8 | J6IUE | 99% | 1,006.4 | µg/mL | +/- 36.6170 |
| 74 | Indeno(1,2,3-cd)pyrene | 193-39-5 | 12-JKL-118-9 | 97% | 1,002.0 | µg/mL | +/- 36.4557 |
| 75 | Dibenz(a,h)anthracene | 53-70-3 | ER032211-01 | 99% | 1,006.1 | µg/mL | +/- 36.6029 |
| 76 | Benzo(g,h,i)perylene | 191-24-2 | RP230511B | 98% | 1,006.8 | µg/mL | +/- 36.6295 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

# Quality Confirmation Test

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

**Carrier Gas:**
hydrogen-constant flow 1.8 mL/min.

**Temp. Program:**
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

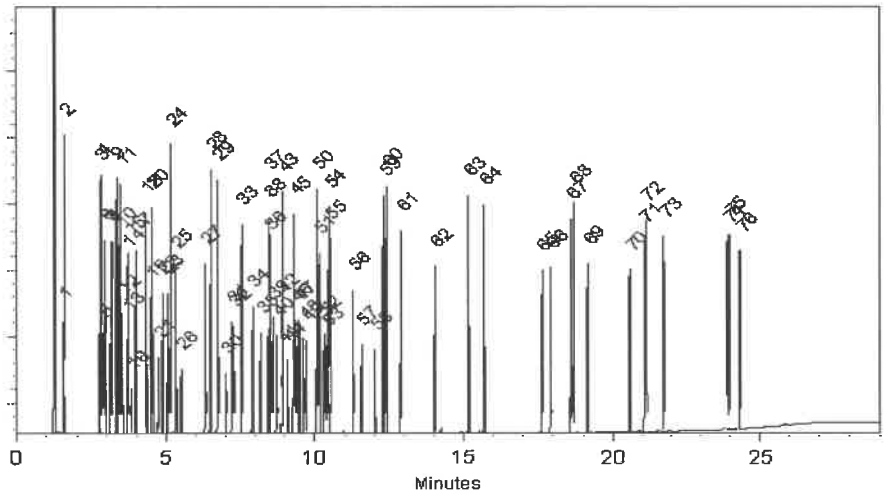
**Inj. Temp:**
250°C

**Det. Temp:**
340°C

**Det. Type:**
FID

**Split Vent:**
100 ml/min.

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

**Date Mixed:** 11-May-2023 **Balance Serial #** 1128353505

Christie Mills - Operations Tech II - ARM QC

**Date Passed:** 18-May-2023

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

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Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31206 **Lot No.:** A0201320

S12013 ↓ S12042 RC 12/26/23

**Description :** SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2029 **Storage:** 10°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 1,4-Dichlorobenzene-d4 | 3855-82-1 | PR-30447 | 99% | 2,017.0 µg/mL | +/- 90.8469 |
| 2 | Naphthalene-d8 | 1146-65-2 | M-2180 | 99% | 2,011.3 µg/mL | +/- 90.5917 |
| 3 | Acenaphthene-d10 | 15067-26-2 | PR-33507 | 99% | 2,008.6 µg/mL | +/- 90.4685 |
| 4 | Phenanthrene-d10 | 1517-22-2 | PR-32303 | 99% | 2,019.4 µg/mL | +/- 90.9550 |
| 5 | Chrysene-d12 | 1719-03-5 | PR-32210 | 99% | 2,013.7 µg/mL | +/- 90.6968 |
| 6 | Perylene-d12 | 1520-96-3 | PR-33205 | 99% | 2,012.7 µg/mL | +/- 90.6517 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

# Quality Confirmation Test

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

**Carrier Gas:**
hydrogen-constant pressure 10 psi.

**Temp. Program:**
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

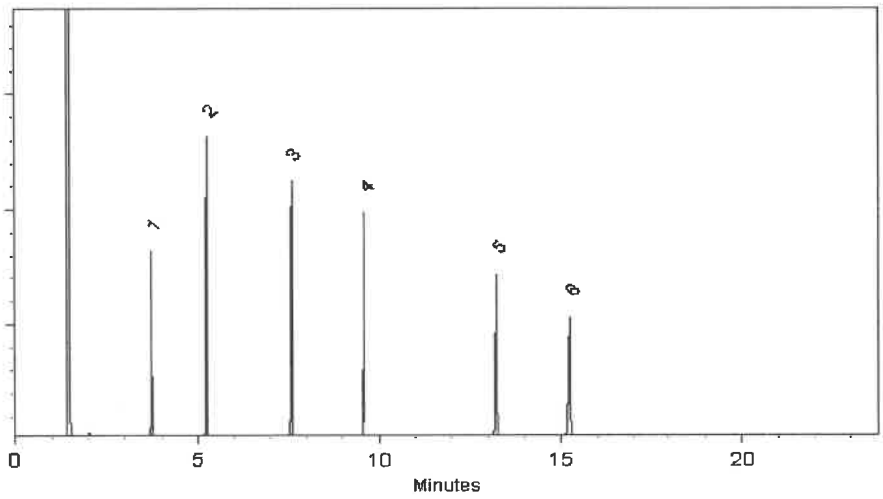
**Inj. Temp:**
250°C

**Det. Temp:**
330°C

**Det. Type:**
FID

**Split Vent:**
10 ml/min.

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Peter Robbins - Operations Technician I

**Date Mixed:** 23-Aug-2023 **Balance Serial #** B345965662

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 25-Aug-2023

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

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**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31206 **Lot No.:** A0201320

**Description :** SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

S12013 ↓ S12042 RC 12/26/23

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2029 **Storage:** 10°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 1,4-Dichlorobenzene-d4 | 3855-82-1 | PR-30447 | 99% | 2,017.0 µg/mL | +/- 90.8469 |
| 2 | Naphthalene-d8 | 1146-65-2 | M-2180 | 99% | 2,011.3 µg/mL | +/- 90.5917 |
| 3 | Acenaphthene-d10 | 15067-26-2 | PR-33507 | 99% | 2,008.6 µg/mL | +/- 90.4685 |
| 4 | Phenanthrene-d10 | 1517-22-2 | PR-32303 | 99% | 2,019.4 µg/mL | +/- 90.9550 |
| 5 | Chrysene-d12 | 1719-03-5 | PR-32210 | 99% | 2,013.7 µg/mL | +/- 90.6968 |
| 6 | Perylene-d12 | 1520-96-3 | PR-33205 | 99% | 2,012.7 µg/mL | +/- 90.6517 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

# Quality Confirmation Test

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

**Carrier Gas:**
hydrogen-constant pressure 10 psi.

**Temp. Program:**
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

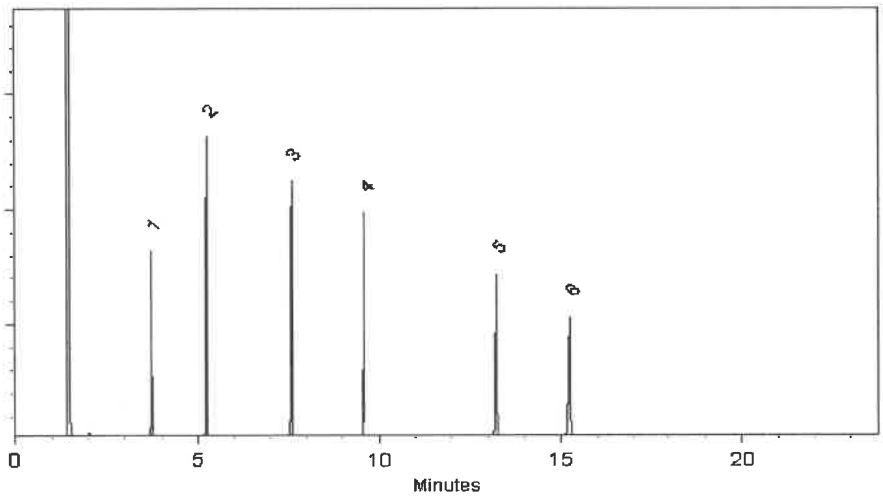
**Inj. Temp:**
250°C

**Det. Temp:**
330°C

**Det. Type:**
FID

**Split Vent:**
10 ml/min.

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Peter Robbins - Operations Technician I

**Date Mixed:** 23-Aug-2023 **Balance Serial #** B345965662

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 25-Aug-2023

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

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# Certificate of Analysis

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*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31206 **Lot No.:** A0201320

**Description :** SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

S12013 ↓ S12042 RC 12/26/23

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2029 **Storage:** 10°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 1,4-Dichlorobenzene-d4 | 3855-82-1 | PR-30447 | 99% | 2,017.0 µg/mL | +/- 90.8469 |
| 2 | Naphthalene-d8 | 1146-65-2 | M-2180 | 99% | 2,011.3 µg/mL | +/- 90.5917 |
| 3 | Acenaphthene-d10 | 15067-26-2 | PR-33507 | 99% | 2,008.6 µg/mL | +/- 90.4685 |
| 4 | Phenanthrene-d10 | 1517-22-2 | PR-32303 | 99% | 2,019.4 µg/mL | +/- 90.9550 |
| 5 | Chrysene-d12 | 1719-03-5 | PR-32210 | 99% | 2,013.7 µg/mL | +/- 90.6968 |
| 6 | Perylene-d12 | 1520-96-3 | PR-33205 | 99% | 2,012.7 µg/mL | +/- 90.6517 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

# Quality Confirmation Test

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

**Carrier Gas:**
hydrogen-constant pressure 10 psi.

**Temp. Program:**
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

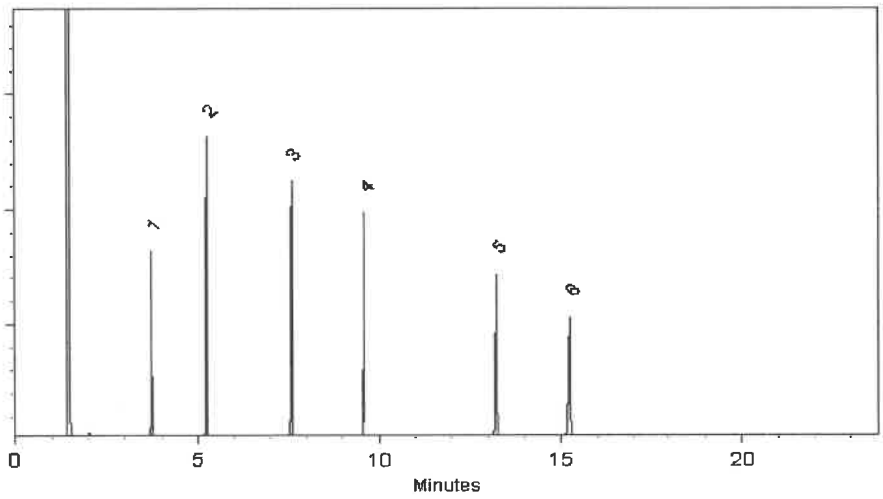
**Inj. Temp:**
250°C

**Det. Temp:**
330°C

**Det. Type:**
FID

**Split Vent:**
10 ml/min.

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Peter Robbins - Operations Technician I

**Date Mixed:** 23-Aug-2023 **Balance Serial #** B345965662

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 25-Aug-2023

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

# Certificate of Analysis

Rev 0 

| Catalog No.: | Lot No.: | Storage: | Solvent: | Exp. Date: | Description: |
|---|---|---|---|---|---|
| Z-110816-01 | 414127 | ≤ -10 °C | Methylene Chloride | 6/21/2025 | Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL |

| Compound | CAS No. | Purity (%) | Compound Lot No. | Concentration, mg/L |
|---|---|---|---|---|
| atrazine | 1912-24-9 | 99.5 | 337.7.3P | 997 ± 5.81 |
| benzidine | 92-87-5 | 99.9 | 124.18.6.2P | 991.8 ± 5.77 |
| caprolactam | 105-60-2 | 99.9 | 271.1.6P | 999 ± 5.82 |

S12075
↓
S12079
RC
02/01/24

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____
Shane Overcash
**Chemist**

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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# Certificate of Analysis

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ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555224 **Lot No.:** A0207706

**Description :** Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

S12082 ↓ S12111 RC/ 02/22/24

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** February 28, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 1,2,4,5-Tetrachlorobenzene | 95-94-3 | MKCT9480 | 99% | 1,001.0 µg/mL | +/- 29.424320 |
| 2 | Acetophenone | 98-86-2 | STBH8205 | 99% | 1,004.0 µg/mL | +/- 29.512504 |
| 3 | Benzaldehyde | 100-52-7 | RD231129RSRA | 99% | 1,005.0 µg/mL | +/- 29.541899 |
| 4 | Benzoic acid | 65-85-0 | MKCR2694 | 99% | 1,003.0 µg/mL | +/- 29.483110 |
| 5 | Biphenyl | 92-52-4 | MKCL6515 | 99% | 1,006.0 µg/mL | +/- 29.571294 |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

John Friedline - Operations Technician I

**Date Mixed:** 12-Feb-2024 **Balance:** B345965662

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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**Catalog No. :** 555224 **Lot No.:** A0207706

**Description :** Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

S12082 ↓ S12111 RC/ 02/22/24

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** February 28, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 1,2,4,5-Tetrachlorobenzene | 95-94-3 | MKCT9480 | 99% | 1,001.0 µg/mL | +/- 29.424320 |
| 2 | Acetophenone | 98-86-2 | STBH8205 | 99% | 1,004.0 µg/mL | +/- 29.512504 |
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| 4 | Benzoic acid | 65-85-0 | MKCR2694 | 99% | 1,003.0 µg/mL | +/- 29.483110 |
| 5 | Biphenyl | 92-52-4 | MKCL6515 | 99% | 1,006.0 µg/mL | +/- 29.571294 |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

John Friedline - Operations Technician I

**Date Mixed:** 12-Feb-2024 **Balance:** B345965662

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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**Catalog No. :** 555224 **Lot No.:** A0207706

**Description :** Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

S12082 ↓ S12111 RC/ 02/22/24

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** February 28, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 1,2,4,5-Tetrachlorobenzene | 95-94-3 | MKCT9480 | 99% | 1,001.0 µg/mL | +/- 29.424320 |
| 2 | Acetophenone | 98-86-2 | STBH8205 | 99% | 1,004.0 µg/mL | +/- 29.512504 |
| 3 | Benzaldehyde | 100-52-7 | RD231129RSRA | 99% | 1,005.0 µg/mL | +/- 29.541899 |
| 4 | Benzoic acid | 65-85-0 | MKCR2694 | 99% | 1,003.0 µg/mL | +/- 29.483110 |
| 5 | Biphenyl | 92-52-4 | MKCL6515 | 99% | 1,006.0 µg/mL | +/- 29.571294 |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

John Friedline - Operations Technician I

**Date Mixed:** 12-Feb-2024 **Balance:** B345965662

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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**Catalog No. :** 555224 **Lot No.:** A0207706

**Description :** Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

S12082 ↓ S12111 RC/ 02/22/24

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** February 28, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
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| 4 | Benzoic acid | 65-85-0 | MKCR2694 | 99% | 1,003.0 µg/mL | +/- 29.483110 |
| 5 | Biphenyl | 92-52-4 | MKCL6515 | 99% | 1,006.0 µg/mL | +/- 29.571294 |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

John Friedline - Operations Technician I

**Date Mixed:** 12-Feb-2024 **Balance:** B345965662

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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**Catalog No. :** 555224 **Lot No.:** A0207706

**Description :** Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

S12082 ↓ S12111 RC/ 02/22/24

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** February 28, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
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| 2 | Acetophenone | 98-86-2 | STBH8205 | 99% | 1,004.0 µg/mL | +/- 29.512504 |
| 3 | Benzaldehyde | 100-52-7 | RD231129RSRA | 99% | 1,005.0 µg/mL | +/- 29.541899 |
| 4 | Benzoic acid | 65-85-0 | MKCR2694 | 99% | 1,003.0 µg/mL | +/- 29.483110 |
| 5 | Biphenyl | 92-52-4 | MKCL6515 | 99% | 1,006.0 µg/mL | +/- 29.571294 |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

John Friedline - Operations Technician I

**Date Mixed:** 12-Feb-2024 **Balance:** B345965662

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*gravimetric*

ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555224 **Lot No.:** A0207706

**Description :** Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

S12082 ↓ S12111 RC/ 02/22/24

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** February 28, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 1,2,4,5-Tetrachlorobenzene | 95-94-3 | MKCT9480 | 99% | 1,001.0 µg/mL | +/- 29.424320 |
| 2 | Acetophenone | 98-86-2 | STBH8205 | 99% | 1,004.0 µg/mL | +/- 29.512504 |
| 3 | Benzaldehyde | 100-52-7 | RD231129RSRA | 99% | 1,005.0 µg/mL | +/- 29.541899 |
| 4 | Benzoic acid | 65-85-0 | MKCR2694 | 99% | 1,003.0 µg/mL | +/- 29.483110 |
| 5 | Biphenyl | 92-52-4 | MKCL6515 | 99% | 1,006.0 µg/mL | +/- 29.571294 |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

John Friedline - Operations Technician I

**Date Mixed:** 12-Feb-2024 **Balance:** B345965662

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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**Catalog No. :** 555224 **Lot No.:** A0207706

**Description :** Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

S12082 ↓ S12111 RC/ 02/22/24

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** February 28, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 1,2,4,5-Tetrachlorobenzene | 95-94-3 | MKCT9480 | 99% | 1,001.0 µg/mL | +/- 29.424320 |
| 2 | Acetophenone | 98-86-2 | STBH8205 | 99% | 1,004.0 µg/mL | +/- 29.512504 |
| 3 | Benzaldehyde | 100-52-7 | RD231129RSRA | 99% | 1,005.0 µg/mL | +/- 29.541899 |
| 4 | Benzoic acid | 65-85-0 | MKCR2694 | 99% | 1,003.0 µg/mL | +/- 29.483110 |
| 5 | Biphenyl | 92-52-4 | MKCL6515 | 99% | 1,006.0 µg/mL | +/- 29.571294 |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

John Friedline - Operations Technician I

**Date Mixed:** 12-Feb-2024 **Balance:** B345965662

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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**Catalog No. :** 555224 **Lot No.:** A0207706

**Description :** Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

S12082 ↓ S12111 RC/ 02/22/24

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** February 28, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 1,2,4,5-Tetrachlorobenzene | 95-94-3 | MKCT9480 | 99% | 1,001.0 µg/mL | +/- 29.424320 |
| 2 | Acetophenone | 98-86-2 | STBH8205 | 99% | 1,004.0 µg/mL | +/- 29.512504 |
| 3 | Benzaldehyde | 100-52-7 | RD231129RSRA | 99% | 1,005.0 µg/mL | +/- 29.541899 |
| 4 | Benzoic acid | 65-85-0 | MKCR2694 | 99% | 1,003.0 µg/mL | +/- 29.483110 |
| 5 | Biphenyl | 92-52-4 | MKCL6515 | 99% | 1,006.0 µg/mL | +/- 29.571294 |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

John Friedline - Operations Technician I

**Date Mixed:** 12-Feb-2024 **Balance:** B345965662

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555224 **Lot No.:** A0207706

**Description :** Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

S12082 ↓ S12111 RC/ 02/22/24

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** February 28, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 1,2,4,5-Tetrachlorobenzene | 95-94-3 | MKCT9480 | 99% | 1,001.0 µg/mL | +/- 29.424320 |
| 2 | Acetophenone | 98-86-2 | STBH8205 | 99% | 1,004.0 µg/mL | +/- 29.512504 |
| 3 | Benzaldehyde | 100-52-7 | RD231129RSRA | 99% | 1,005.0 µg/mL | +/- 29.541899 |
| 4 | Benzoic acid | 65-85-0 | MKCR2694 | 99% | 1,003.0 µg/mL | +/- 29.483110 |
| 5 | Biphenyl | 92-52-4 | MKCL6515 | 99% | 1,006.0 µg/mL | +/- 29.571294 |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

John Friedline - Operations Technician I

**Date Mixed:** 12-Feb-2024 **Balance:** B345965662

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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# CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*gravimetric*

ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555224 **Lot No.:** A0207706

**Description :** Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

S12082 ↓ S12111 RC/ 02/22/24

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** February 28, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 1,2,4,5-Tetrachlorobenzene | 95-94-3 | MKCT9480 | 99% | 1,001.0 µg/mL | +/- 29.424320 |
| 2 | Acetophenone | 98-86-2 | STBH8205 | 99% | 1,004.0 µg/mL | +/- 29.512504 |
| 3 | Benzaldehyde | 100-52-7 | RD231129RSRA | 99% | 1,005.0 µg/mL | +/- 29.541899 |
| 4 | Benzoic acid | 65-85-0 | MKCR2694 | 99% | 1,003.0 µg/mL | +/- 29.483110 |
| 5 | Biphenyl | 92-52-4 | MKCL6515 | 99% | 1,006.0 µg/mL | +/- 29.571294 |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

John Friedline - Operations Technician I

**Date Mixed:** 12-Feb-2024 **Balance:** B345965662

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

# Certificate of Analysis

Rev 0



| Catalog No.: | Lot No.: | Storage: | Solvent: | Exp. Date: | Description: |
|---|---|---|---|---|---|
| Z-020223-01 | 454157 | ≤ -10 °C | P/T Methanol | 6/10/2026 | 1,4-Dioxane Solution, 2000 mg/L, 1 mL |

| Compound | CAS No. | Purity (%) | Compound Lot No. | Concentration, mg/L |
|---|---|---|---|---|
| 1,4-dioxane | 123-91-1 | 100 | 223.1.3P | 1997 ± 57.08 |

S12112 ↓ S12116 } RC/ 03/08/24

*Not a certified value

Certified By: Melissa Workoff

Melissa Workoff
**Chemist**

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic plus*

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31850 **Lot No.:** A0203726

**Description :** 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

S12117 ↓ S12146 RC/ 03/18/24

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** April 30, 2025 **Storage:** 0°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Pyridine | 110-86-1 | SHBP6240 | 99% | 1,001.6 µg/mL | +/- 36.4412 |
| 2 | N-Nitrosodimethylamine | 62-75-9 | 230209JLM | 99% | 1,005.9 µg/mL | +/- 36.5968 |
| 3 | Phenol | 108-95-2 | MKCK1120 | 99% | 1,003.3 µg/mL | +/- 36.5038 |
| 4 | Aniline | 62-53-3 | X22F726 | 99% | 1,005.8 µg/mL | +/- 36.5928 |
| 5 | Bis(2-chloroethyl)ether | 111-44-4 | SHBL6942 | 99% | 1,008.1 µg/mL | +/- 36.6776 |
| 6 | 2-Chlorophenol | 95-57-8 | STBJ3909 | 99% | 1,001.8 µg/mL | +/- 36.4492 |
| 7 | 1,3-Dichlorobenzene | 541-73-1 | BCCD5315 | 99% | 1,002.3 µg/mL | +/- 36.4654 |
| 8 | 1,4-Dichlorobenzene | 106-46-7 | MKBS7929V | 99% | 1,003.7 µg/mL | +/- 36.5159 |
| 9 | Benzyl alcohol | 100-51-6 | SHBK5469 | 99% | 1,008.7 µg/mL | +/- 36.6979 |
| 10 | 1,2-Dichlorobenzene | 95-50-1 | SHBN3835 | 99% | 1,000.3 µg/mL | +/- 36.3926 |
| 11 | 2-Methylphenol (o-cresol) | 95-48-7 | SHBN7598 | 99% | 1,003.5 µg/mL | +/- 36.5099 |
| 12 | 2,2'-oxybis(1-chloropropane) | 108-60-1 | 29-MAR-45-5 | 99% | 1,007.3 µg/mL | +/- 36.6493 |
| 13 | 3-Methylphenol (m-cresol) | 108-39-4 | STBJ0710 | 99% | 504.3 µg/mL | +/- 18.3500 |
| 14 | 4-Methylphenol (p-cresol) | 106-44-5 | SHBN3411 | 99% | 503.6 µg/mL | +/- 18.3237 |
| 15 | N-Nitroso-di-n-propylamine | 621-64-7 | N63MG | 99% | 1,008.3 µg/mL | +/- 36.6857 |
| 16 | Hexachloroethane | 67-72-1 | QTORH | 99% | 1,007.5 µg/mL | +/- 36.6554 |
| 17 | Nitrobenzene | 98-95-3 | 10224044 | 99% | 1,008.6 µg/mL | +/- 36.6938 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 18 | Isophorone | 78-59-1 | MKCC9506 | 99% | 1,005.9 | µg/mL | +/- | 36.5988 |
| 19 | 2-Nitrophenol | 88-75-5 | RP230710 | 99% | 1,003.2 | µg/mL | +/- | 36.4998 |
| 20 | 2,4-Dimethylphenol | 105-67-9 | XW5GK | 99% | 1,003.8 | µg/mL | +/- | 36.5200 |
| 21 | Bis(2-chloroethoxy)methane | 111-91-1 | 13670200 | 99% | 1,002.1 | µg/mL | +/- | 36.4573 |
| 22 | 2,4-Dichlorophenol | 120-83-2 | BCBZ6787 | 99% | 1,003.7 | µg/mL | +/- | 36.5180 |
| 23 | 1,2,4-Trichlorobenzene | 120-82-1 | SHBP5900 | 99% | 1,007.6 | µg/mL | +/- | 36.6574 |
| 24 | Naphthalene | 91-20-3 | STBL1057 | 99% | 1,008.3 | µg/mL | +/- | 36.6837 |
| 25 | 4-Chloroaniline | 106-47-8 | BCCJ3217 | 99% | 1,001.3 | µg/mL | +/- | 36.4290 |
| 26 | Hexachlorobutadiene | 87-68-3 | RP230823RSR | 98% | 1,008.3 | µg/mL | +/- | 36.6829 |
| 27 | 4-Chloro-3-methylphenol | 59-50-7 | BCCD4461 | 99% | 1,003.1 | µg/mL | +/- | 36.4937 |
| 28 | 2-Methylnaphthalene | 91-57-6 | STBK0259 | 96% | 1,001.9 | µg/mL | +/- | 36.4505 |
| 29 | 1-Methylnaphthalene | 90-12-0 | 5234.00-8 | 98% | 1,000.0 | µg/mL | +/- | 36.3838 |
| 30 | Hexachlorocyclopentadiene | 77-47-4 | 099063I14L | 98% | 1,008.5 | µg/mL | +/- | 36.6909 |
| 31 | 2,4,6-Trichlorophenol | 88-06-2 | STBJ5914 | 99% | 1,004.4 | µg/mL | +/- | 36.5442 |
| 32 | 2,4,5-Trichlorophenol | 95-95-4 | FHN01 | 98% | 1,001.9 | µg/mL | +/- | 36.4512 |
| 33 | 2-Chloronaphthalene | 91-58-7 | RPN7O | 99% | 1,001.1 | µg/mL | +/- | 36.4230 |
| 34 | 2-Nitroaniline | 88-74-4 | RP230531 | 99% | 1,002.9 | µg/mL | +/- | 36.4876 |
| 35 | 1,4-Dinitrobenzene | 100-25-4 | RP230816 | 99% | 1,005.7 | µg/mL | +/- | 36.5887 |
| 36 | Acenaphthylene | 208-96-8 | p06V | 98% | 1,009.5 | µg/mL | +/- | 36.7265 |
| 37 | 1,3-Dinitrobenzene | 99-65-0 | 1-DXX-24-1 | 99% | 1,004.4 | µg/mL | +/- | 36.5422 |
| 38 | Dimethylphthalate | 131-11-3 | 358221L17K | 99% | 1,005.9 | µg/mL | +/- | 36.5968 |
| 39 | 2,6-Dinitrotoluene | 606-20-2 | BCCG1833 | 99% | 1,003.2 | µg/mL | +/- | 36.4998 |
| 40 | 1,2-Dinitrobenzene | 528-29-0 | RP230428 | 99% | 1,002.2 | µg/mL | +/- | 36.4634 |
| 41 | Acenaphthene | 83-32-9 | MKCR7169 | 99% | 1,009.3 | µg/mL | +/- | 36.7221 |
| 42 | 3-Nitroaniline | 99-09-2 | RP230822RSR | 99% | 1,003.9 | µg/mL | +/- | 36.5240 |
| 43 | 2,4-Dinitrophenol | 51-28-5 | DR230417RSR | 99% | 1,002.0 | µg/mL | +/- | 36.4553 |
| 44 | Dibenzofuran | 132-64-9 | MKCD9952 | 99% | 1,006.7 | µg/mL | +/- | 36.6251 |
| 45 | 2,4-Dinitrotoluene | 121-14-2 | MKAA0690V | 99% | 1,003.8 | µg/mL | +/- | 36.5220 |
| 46 | 4-Nitrophenol | 100-02-7 | RP230627 | 99% | 1,002.3 | µg/mL | +/- | 36.4674 |
| 47 | 2,3,4,6-Tetrachlorophenol | 58-90-2 | PR-30126 | 99% | 1,008.7 | µg/mL | +/- | 36.6979 |
| 48 | 2,3,5,6-Tetrachlorophenol | 935-95-5 | RP230919 | 99% | 1,006.3 | µg/mL | +/- | 36.6130 |
| 49 | Fluorene | 86-73-7 | 10241100 | 99% | 1,008.3 | µg/mL | +/- | 36.6857 |
| 50 | 4-Chlorophenyl phenyl ether | 7005-72-3 | MKCT7248 | 99% | 1,003.8 | µg/mL | +/- | 36.5220 |
| 51 | Diethylphthalate | 84-66-2 | MKCD2547 | 99% | 1,008.6 | µg/mL | +/- | 36.6958 |
| 52 | 4-Nitroaniline | 100-01-6 | RP230111 | 99% | 1,001.1 | µg/mL | +/- | 36.4230 |
| 53 | 4,6-Dinitro-2-methylphenol (Dinitro-o-cresol) | 534-52-1 | 230718JLM | 99% | 1,002.0 | µg/mL | +/- | 36.4553 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 54 | Diphenylamine | 122-39-4 | MKCH1042 | 99% | 1,002.3 | µg/mL | +/- 36.4674 |
| 55 | Azobenzene | 103-33-3 | BCCK0887 | 99% | 1,005.8 | µg/mL | +/- 36.5928 |
| 56 | 4-Bromophenyl phenyl ether | 101-55-3 | STBH6361 | 99% | 1,003.0 | µg/mL | +/- 36.4917 |
| 57 | Hexachlorobenzene | 118-74-1 | 14821700 | 99% | 1,007.5 | µg/mL | +/- 36.6554 |
| 58 | Pentachlorophenol | 87-86-5 | RP230530RSR | 99% | 1,008.8 | µg/mL | +/- 36.7019 |
| 59 | Phenanthrene | 85-01-8 | MKCQ8876 | 99% | 1,008.4 | µg/mL | +/- 36.6877 |
| 60 | Anthracene | 120-12-7 | MKCR0570 | 99% | 1,009.0 | µg/mL | +/- 36.7100 |
| 61 | Carbazole | 86-74-8 | 14351100 | 99% | 1,000.9 | µg/mL | +/- 36.4149 |
| 62 | Di-n-butylphthalate | 84-74-2 | MKCN4337 | 99% | 1,007.6 | µg/mL | +/- 36.6595 |
| 63 | Fluoranthene | 206-44-0 | MKCQ4728 | 99% | 1,009.6 | µg/mL | +/- 36.7302 |
| 64 | Pyrene | 129-00-0 | BCCG8479 | 98% | 1,007.2 | µg/mL | +/- 36.6453 |
| 65 | Benzyl butyl phthalate | 85-68-7 | X12I018 | 99% | 1,002.1 | µg/mL | +/- 36.4573 |
| 66 | Bis(2-ethylhexyl)adipate | 103-23-1 | MKCM1988 | 99% | 1,005.2 | µg/mL | +/- 36.5705 |
| 67 | Benz(a)anthracene | 56-55-3 | I220012022BAA | 99% | 1,002.2 | µg/mL | +/- 36.4614 |
| 68 | Chrysene | 218-01-9 | RP230601 | 99% | 1,008.3 | µg/mL | +/- 36.6837 |
| 69 | Bis(2-ethylhexyl)phthalate | 117-81-7 | MKCQ3468 | 99% | 1,001.8 | µg/mL | +/- 36.4472 |
| 70 | Di-n-octyl phthalate | 117-84-0 | 14382700 | 99% | 1,006.0 | µg/mL | +/- 36.6008 |
| 71 | Benzo(b)fluoranthene | 205-99-2 | 012013B | 99% | 1,002.8 | µg/mL | +/- 36.4836 |
| 72 | Benzo(k)fluoranthene | 207-08-9 | 012022K | 99% | 1,003.0 | µg/mL | +/- 36.4917 |
| 73 | Benzo(a)pyrene | 50-32-8 | P54915-0703 | 99% | 1,002.3 | µg/mL | +/- 36.4674 |
| 74 | Indeno(1,2,3-cd)pyrene | 193-39-5 | 12-JKL-118-9 | 97% | 1,009.4 | µg/mL | +/- 36.7243 |
| 75 | Dibenz(a,h)anthracene | 53-70-3 | 2-ASA-59-1 | 99% | 1,007.6 | µg/mL | +/- 36.6595 |
| 76 | Benzo(g,h,i)perylene | 191-24-2 | RP231003RSR | 99% | 1,002.9 | µg/mL | +/- 36.4876 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

# SHIPPING DOCUMENTS

# CHEMTECH
## CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. P3457
QUOTE NO.
COC Number 2041348

### CLIENT INFORMATION
REPORT TO BE SENT TO:
COMPANY: Jacobs
ADDRESS: 412 Mt Kemble Ave Suite #100
CITY Morristown STATE: NJ ZIP: 07960
ATTENTION: John Yafarta
PHONE: (781) 414-1719 FAX:

### CLIENT PROJECT INFORMATION
PROJECT NAME: STC PTC
PROJECT NO.: D3779922 LOCATION: Princeton Junction
PROJECT MANAGER: Mary Murphy
e-mail: Mary.Murphy@Jacobs.com
PHONE: (201) 936-0586 FAX:

### CLIENT BILLING INFORMATION
BILL TO: Mary Murphy PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

### DATA TURNAROUND INFORMATION
FAX (RUSH) Standard TAT DAYS*
HARDCOPY (DATA PACKAGE): DAYS*
EDD: DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

### DATA DELIVERABLE INFORMATION
- ❑ Level 1 (Results Only)
- ❑ Level 2 (Results + QC)
- X Level 3 (Results + QC + Raw Data)
- ❑ Level 4 (QC + Full Raw Data)
- ❑ NJ Reduced ❑ US EPA CLP
- ❑ NYS ASP A ❑ NYS ASP B
- ❑ Other
- ❑ EDD FORMAT

### ANALYSIS
1 VOCs (8260)
2 SVOCs + PAH (8270E) SIZE SIM
3 Metals (6010), Hg (7470B), Cr(VI) (7196A)
4 5 6 7 8 9

| CHEMTECH SAMPLE ID | PROJECT SAMPLE IDENTIFICATION | SAMPLE MATRIX | SAMPLE TYPE COMP | SAMPLE TYPE GRAB | SAMPLE COLLECTION DATE | SAMPLE COLLECTION TIME | # OF BOTTLES | PRESERVATIVES 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. | 924-K1-WS-080224 | WS | | X | 8/2/24 | 0855 | 8 | 2 | 4 | 1 | 1 | | | | | |
| 2. | 932-K1-WS-080224 | WS | | X | 8/2/24 | 0950 | 8 | 2 | 4 | 1 | 1 | | | | | |
| 3. | TB-01-080224 | DI | | X | 8/2/24 | 1100 | 1 | 1 | | | | | | | | |
| 4. | | | | | | | | | | | | | | | | |
| 5. | | | | | | | | | | | | | | | | |
| 6. | | | | | | | | | | | | | | | | |
| 7. | | | | | | | | | | | | | | | | |
| 8. | | | | | | | | | | | | | | | | |
| 9. | | | | | | | | | | | | | | | | |
| 10. | | | | | | | | | | | | | | | | |

A/E B/E

### COMMENTS
← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

### SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

| RELINQUISHED BY SAMPLER: | DATE/TIME: | RECEIVED BY: |
|---|---|---|
| 1. | 8/2/24 1708 | 1. 1208 8-2-24 |
| RELINQUISHED BY SAMPLER: | DATE/TIME: | RECEIVED BY: |
| 2. | | 2. |
| RELINQUISHED BY SAMPLER: | DATE/TIME: 1358 8-2-24 | RECEIVED BY: |
| 3. | | 3. |

Conditions of bottles or coolers at receipt: ❑ COMPLIANT ❑ NON COMPLIANT ❑ COOLER TEMP 2.8 °C
Comments: See attached table for required analytes list of ECO-VOCs, ECO-SVOCs, and ECO-metals
2L extra volume for SVOC and PAH analysis

Page 1 of 1

CLIENT: ❑ Hand Delivered ❑ Other
CHEMTECH: ❑ Picked Up ❑ Field Sampling

Shipment Complete ❑ YES ❑ NO


WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY
 Revised

# Laboratory Certification

| Certified By | License No. |
|---|---|
| | |
| CAS EPA CLP Contract | 68HERH20D0011 |
| | |
| Connecticut | PH-0830 |
| | |
| DOD ELAP (L-A-B) | L2219 |
| | |
| Maine | 2024021 |
| | |
| Maryland | 296 |
| | |
| New Hampshire | 255423 |
| | |
| New Jersey | 20012 |
| | |
| New York | 11376 |
| | |
| Pennsylvania | 68-00548 |
| | |
| Soil Permit | 525-24-234-08441 |
| | |
| Texas | T104704488 |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# LOGIN REPORT/SAMPLE TRANSFER

**Order ID :** P3457 JACO05
**Client Name :** JACOBS Engineering Grou
**Client Contact :** Mary I. Murphy
**Invoice Name :** JACOBS Engineering Grou
**Invoice Contact :** Mary I. Murphy

**Order Date :** 8/2/2024 12:31:00 PM
**Project Name :** Former Schlumberger Site I
**Receive DateTime :** 8/2/2024 ~~12:00:00~~ AM 13:58
**Purchase Order :**

**Project Mgr :**
**Report Type :** Level 4
**EDD Type :** CH2MHILL
**Hard Copy Date :**
**Date Signoff :**

| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | FAX DATE | DUE DATES |
|---|---|---|---|---|---|---|---|---|---|
| P3457-01 | 924-~~KI~~-WS-080224 K1 | Water | 08/02/2024 | 08:55 | VOCMS Group6 | | 8260-Low | | 10 Bus. Days |
| P3457-02 | 932-~~KI~~-WS-080224 K1 | Water | 08/02/2024 | 09:50 | VOCMS Group6 | | 8260-Low | | 10 Bus. Days |
| P3457-03 | TB-01-080224 | Water | 08/02/2024 | 11:00 | VOCMS Group6 | | 8260-Low | | 10 Bus. Days |

**Relinguished By :**
**Date / Time :** 8-2-24 1420

**Received By :**
**Date / Time :** 8/2/24 14:20 Lg # 4

**Storage Area :** VOA Refridgerator Room