

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF011425\  
 Data File : BF141153.D  
 Acq On : 14 Jan 2025 18:38  
 Operator : RC/JU  
 Sample : Q1049-01  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 FRAC-TANK-257952

Quant Time: Jan 15 00:12:47 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF011025.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jan 10 22:54:19 2025  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 01/15/2025  
 Supervised By :Jagrut Upadhyay 01/15/2025

| Compound                    | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-----------------------------|--------|------|----------|---------|-------|----------|
| -----                       |        |      |          |         |       |          |
| Internal Standards          |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.822  | 152  | 147727   | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.110  | 136  | 591650   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.863  | 164  | 282324   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.345 | 188  | 399017   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12            | 13.992 | 240  | 276676   | 20.000  | ng    | # 0.00   |
| 86) Perylene-d12            | 15.451 | 264  | 319811   | 20.000  | ng    | 0.01     |
|                             |        |      |          |         |       |          |
| System Monitoring Compounds |        |      |          |         |       |          |
| 5) 2-Fluorophenol           | 5.451  | 112  | 623430   | 65.193  | ng    | 0.02     |
| 7) Phenol-d6                | 6.434  | 99   | 4222387m | 348.573 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.387  | 82   | 978845   | 87.699  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.657 | 330  | 418883   | 130.213 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.187  | 172  | 1720687  | 93.069  | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.945 | 244  | 1281432  | 68.839  | ng    | 0.01     |
|                             |        |      |          |         |       |          |
| Target Compounds            |        |      |          |         |       | Qvalue   |
| 10) Phenol                  | 6.493  | 94   | 293434   | 22.629  | ng    | 98       |
| 15) Benzyl Alcohol          | 6.981  | 79   | 235232   | 26.890  | ng    | 98       |
| 31) Naphthalene             | 8.128  | 128  | 1311009  | 42.018  | ng    | 100      |
| 37) 2-Methylnaphthalene     | 8.828  | 142  | 370307   | 18.625  | ng    | 99       |
| 38) 1-Methylnaphthalene     | 8.922  | 142  | 287190   | 14.656  | ng    | 99       |
| 46) 1,1'-Biphenyl           | 9.281  | 154  | 135507   | 6.180   | ng    | 99       |
| 58) Fluorene                | 10.410 | 166  | 46809    | 2.599   | ng    | # 82     |
| 66) n-Nitrosodiphenylamine  | 10.516 | 169  | 71840    | 5.582   | ng    | 91       |
| 71) Phenanthrene            | 11.369 | 178  | 100697   | 4.701   | ng    | # 87     |
| 74) Di-n-butylphthalate     | 11.916 | 149  | 136918   | 6.264   | ng    | # 77     |
| -----                       |        |      |          |         |       |          |

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

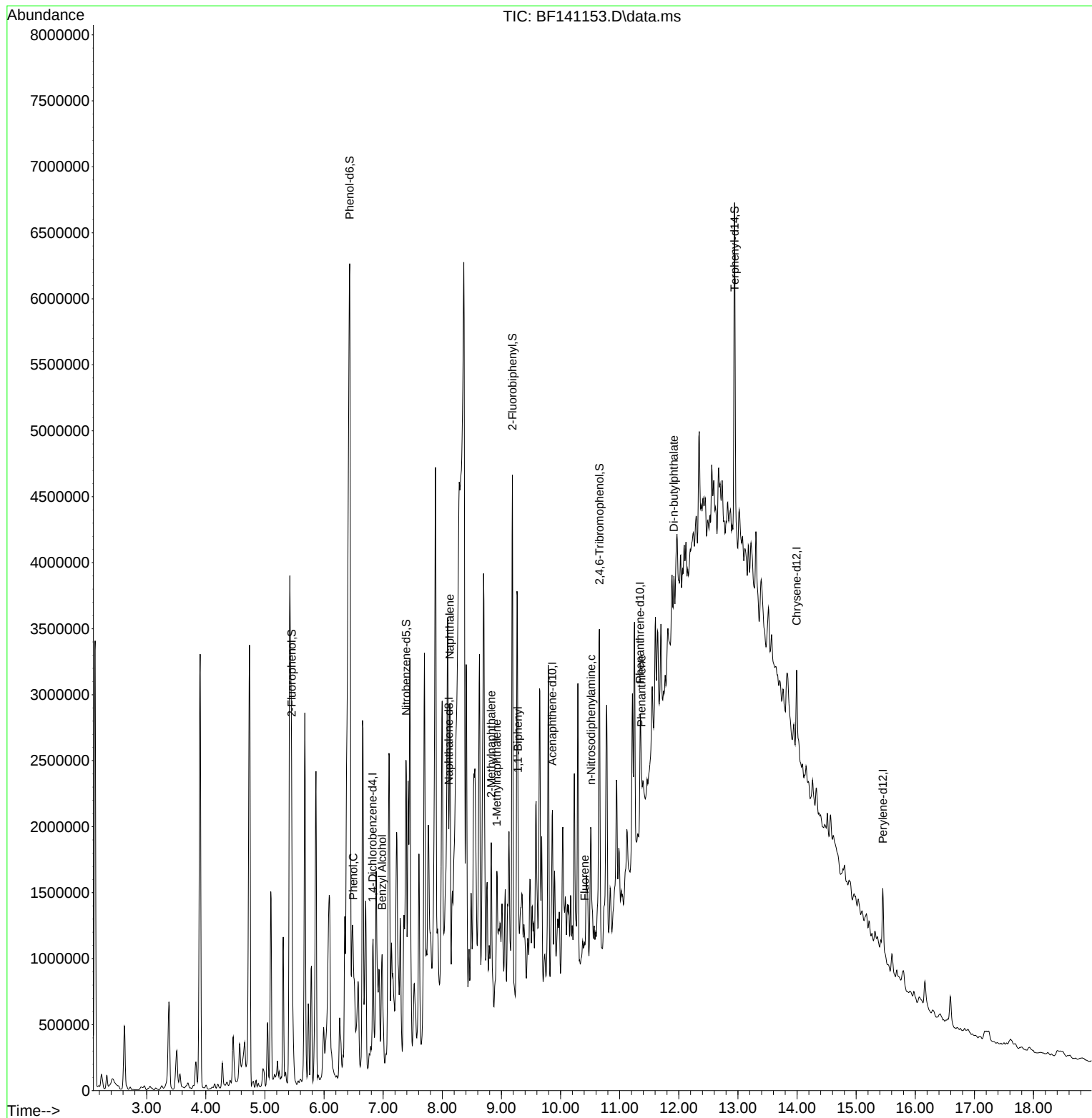
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF011425\  
Data File : BF141153.D  
Acq On : 14 Jan 2025 18:38  
Operator : RC/JU  
Sample : Q1049-01  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

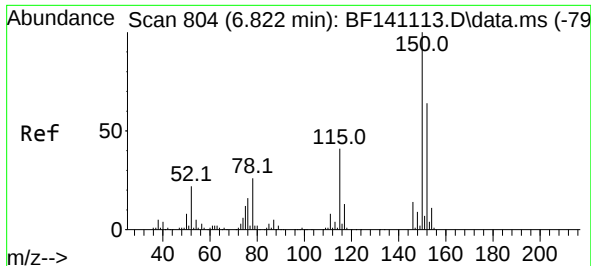
Instrument :  
BNA\_F  
ClientSampleId :  
FRAC-TANK-257952

Quant Time: Jan 15 00:12:47 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF011025.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jan 10 22:54:19 2025  
Response via : Initial Calibration

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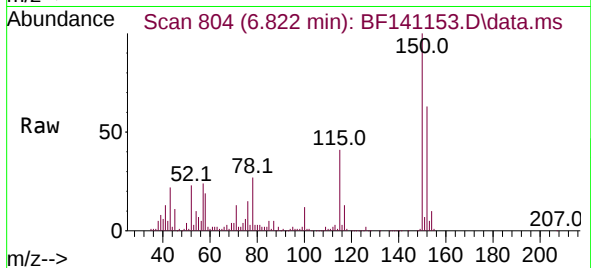
Reviewed By :Yogesh Patel 01/15/2025  
Supervised By :Jagrut Upadhyay 01/15/2025





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.822 min Scan# 804  
Delta R.T. -0.000 min  
Lab File: BF141153.D  
Acq: 14 Jan 2025 18:38

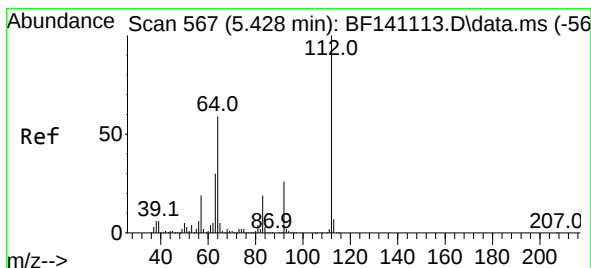
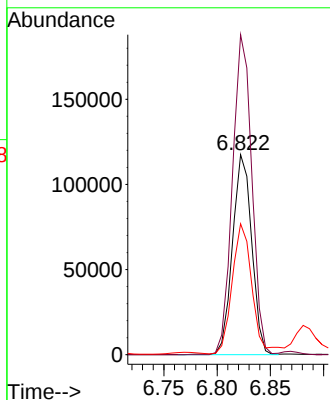
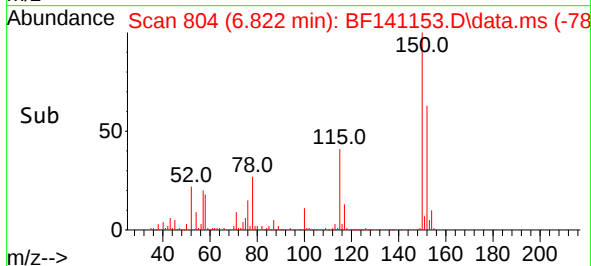
Instrument :  
BNA\_F  
ClientSampleId :  
FRAC-TANK-257952



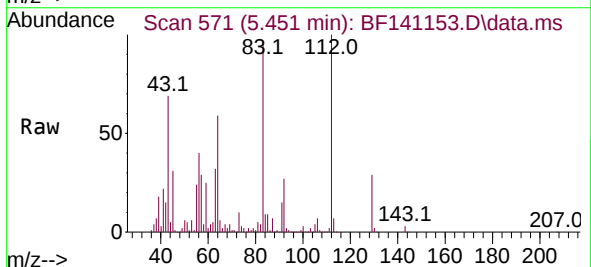
Tgt Ion:152 Resp: 14772  
Ion Ratio Lower Upper  
152 100  
150 160.0 125.8 188.8  
115 65.5 51.4 77.2

Manual Integrations  
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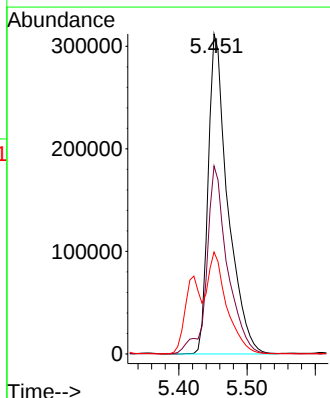
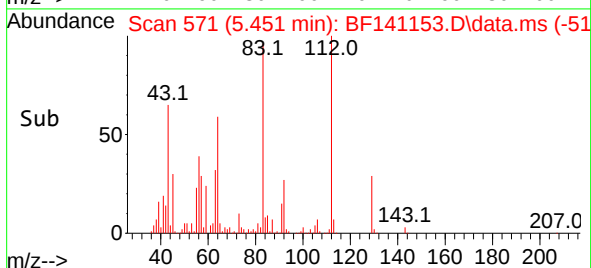
Reviewed By :Yogesh Patel 01/15/2025  
Supervised By :Jagrut Upadhyay 01/15/2025



#5  
2-Fluorophenol  
Concen: 65.193 ng  
RT: 5.451 min Scan# 571  
Delta R.T. 0.024 min  
Lab File: BF141153.D  
Acq: 14 Jan 2025 18:38



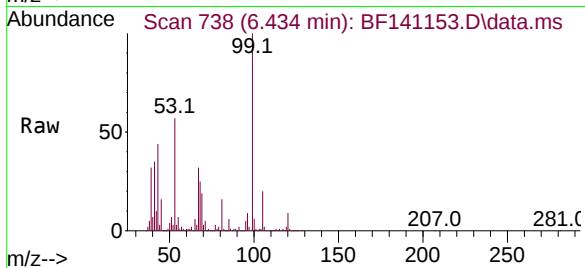
Tgt Ion:112 Resp: 623430  
Ion Ratio Lower Upper  
112 100  
64 58.7 47.3 70.9  
63 31.8 24.2 36.2





#7  
Phenol-d6  
Concen: 348.573 ng m  
RT: 6.434 min Scan# 740  
Delta R.T. -0.012 min  
Lab File: BF141153.D  
Acq: 14 Jan 2025 18:38

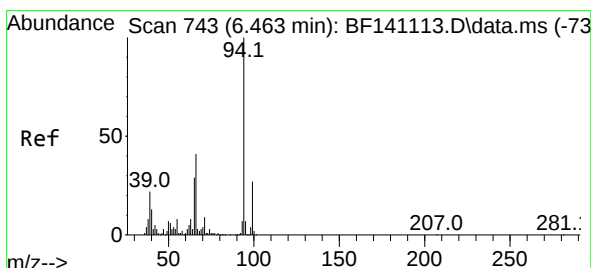
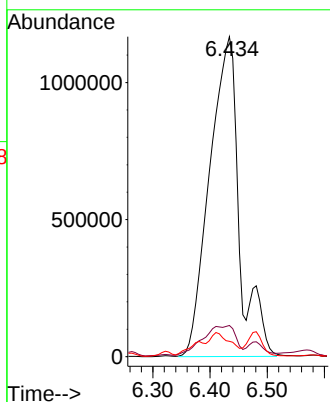
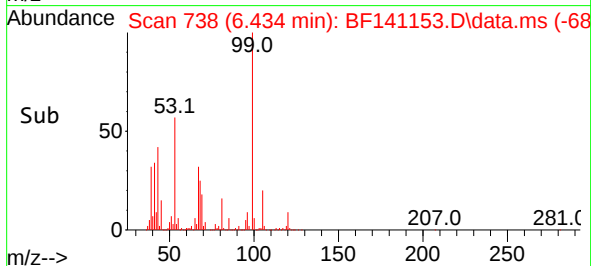
Instrument :  
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Tgt Ion: 99 Resp: 422238  
Ion Ratio Lower Upper  
99 100  
42 9.7 15.0 22.4  
71 4.8 27.6 41.4

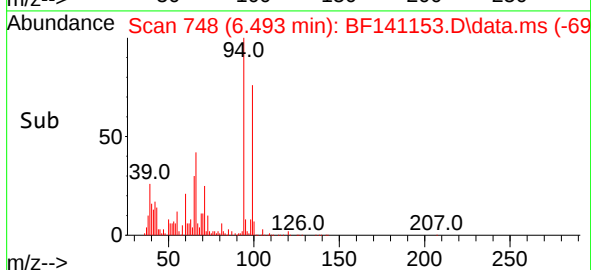
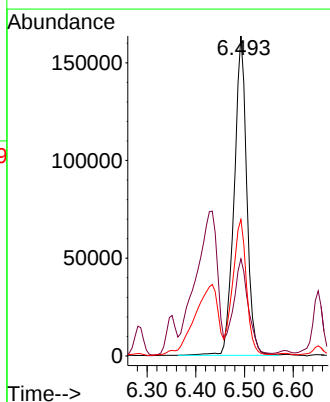
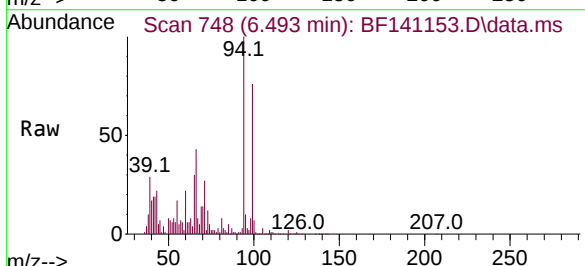
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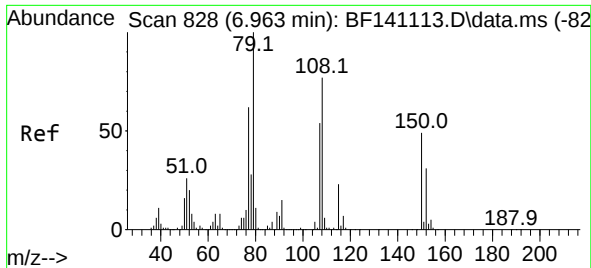
Reviewed By :Yogesh Patel 01/15/2025  
Supervised By :Jagrut Upadhyay 01/15/2025



#10  
Phenol  
Concen: 22.629 ng  
RT: 6.493 min Scan# 748  
Delta R.T. 0.029 min  
Lab File: BF141153.D  
Acq: 14 Jan 2025 18:38

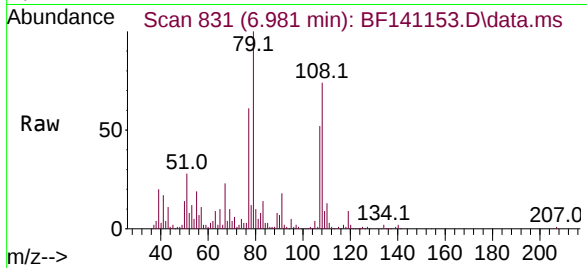
Tgt Ion: 94 Resp: 293434  
Ion Ratio Lower Upper  
94 100  
65 30.4 8.9 48.9  
66 42.7 21.2 61.2





#15  
Benzyl Alcohol  
Concen: 26.890 ng  
RT: 6.981 min Scan# 81  
Delta R.T. 0.018 min  
Lab File: BF141153.D  
Acq: 14 Jan 2025 18:38

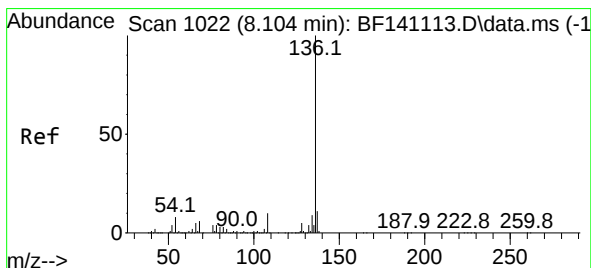
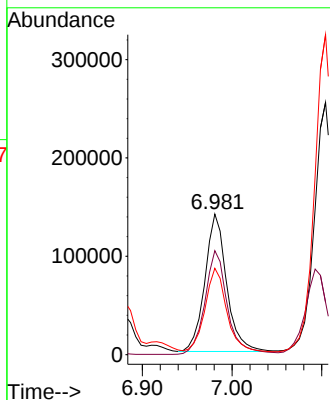
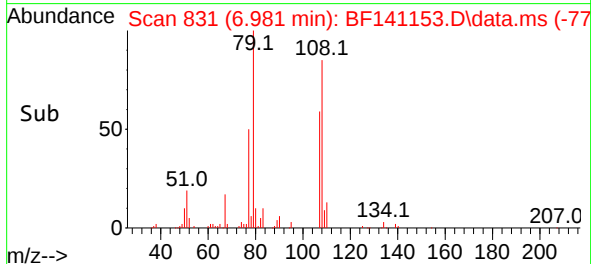
Instrument :  
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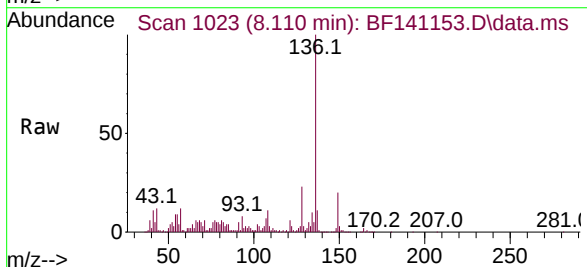
Tgt Ion: 79 Resp: 23523  
Ion Ratio Lower Upper  
79 100  
108 73.9 61.4 92.0  
77 61.4 49.8 74.6

Manual Integrations  
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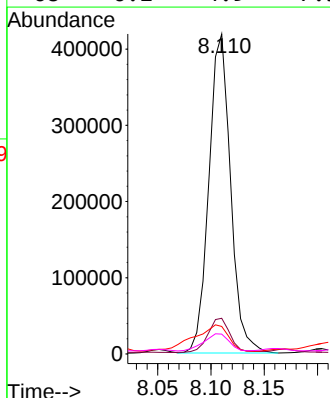
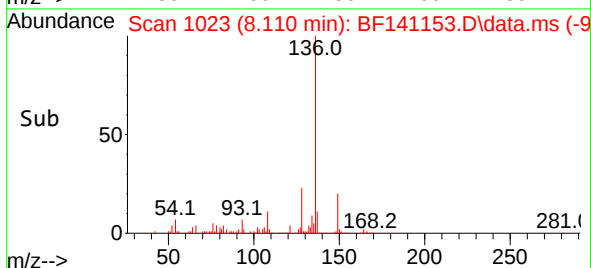
Reviewed By :Yogesh Patel 01/15/2025  
Supervised By :Jagrut Upadhyay 01/15/2025

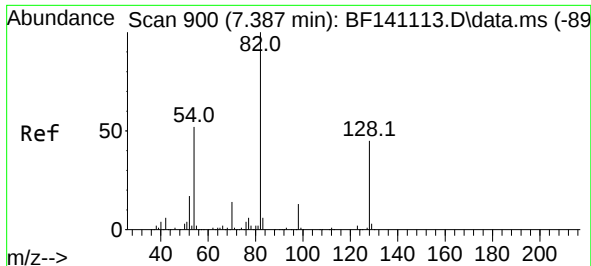


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.110 min Scan# 1023  
Delta R.T. 0.006 min  
Lab File: BF141153.D  
Acq: 14 Jan 2025 18:38



Tgt Ion:136 Resp: 591650  
Ion Ratio Lower Upper  
136 100  
137 11.2 8.8 13.2  
54 8.6 6.3 9.5  
68 6.2 4.9 7.3





#23

Nitrobenzene-d5

Concen: 87.699 ng

RT: 7.387 min Scan# 900

Delta R.T. 0.000 min

Lab File: BF141153.D

Acq: 14 Jan 2025 18:38

Instrument :

BNA\_F

ClientSampleId :

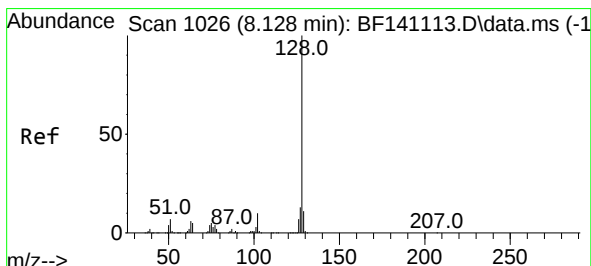
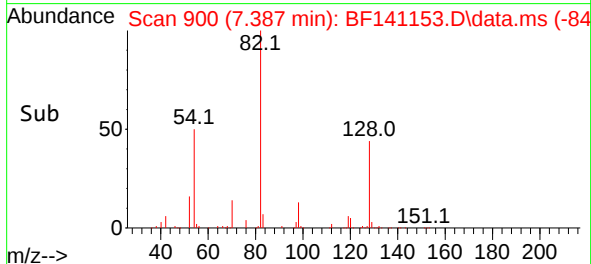
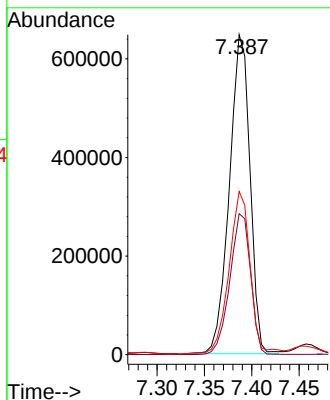
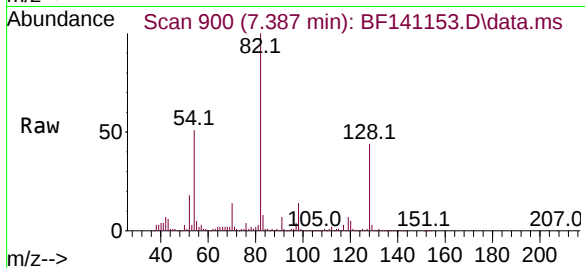
FRAC-TANK-257952

Tgt Ion: 82 Resp: 978845  
 Ion Ratio Lower Upper  
 82 100  
 128 44.1 36.1 54.1  
 54 51.0 41.0 61.4

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Reviewed By :Yogesh Patel 01/15/2025  
 Supervised By :Jagrut Upadhyay 01/15/2025



#31

Naphthalene

Concen: 42.018 ng

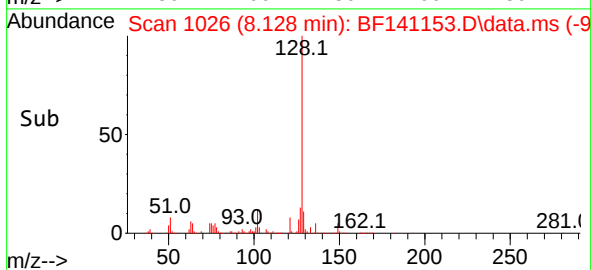
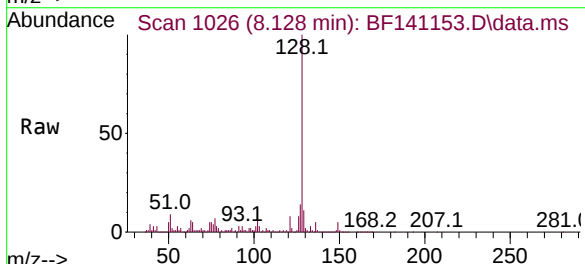
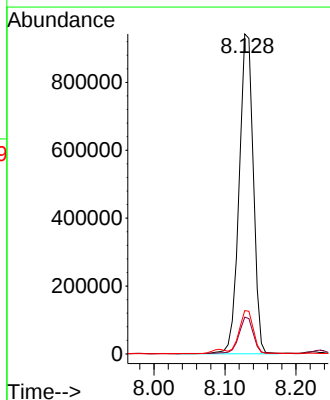
RT: 8.128 min Scan# 1026

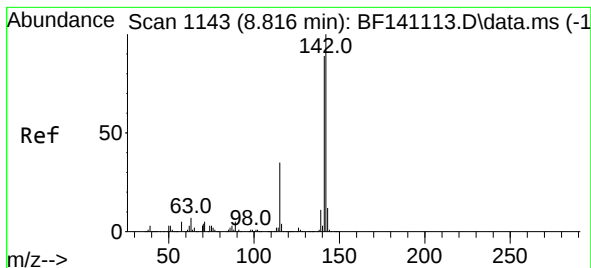
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Lab File: BF141153.D

Acq: 14 Jan 2025 18:38

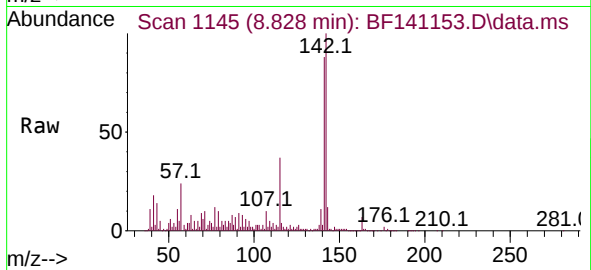
Tgt Ion:128 Resp: 1311009  
 Ion Ratio Lower Upper  
 128 100  
 129 11.5 9.0 13.6  
 127 13.6 10.8 16.2





#37  
2-Methylnaphthalene  
Concen: 18.625 ng  
RT: 8.828 min Scan# 1145  
Delta R.T. 0.012 min  
Lab File: BF141153.D  
Acq: 14 Jan 2025 18:38

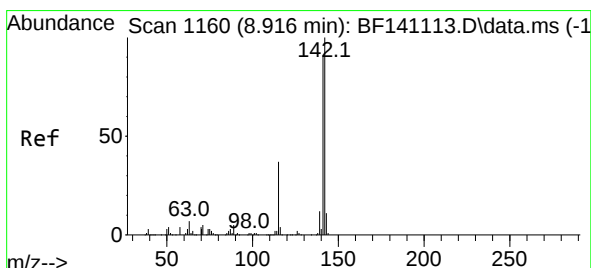
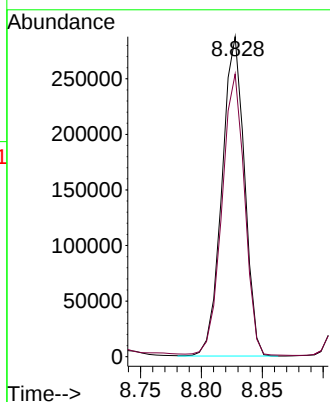
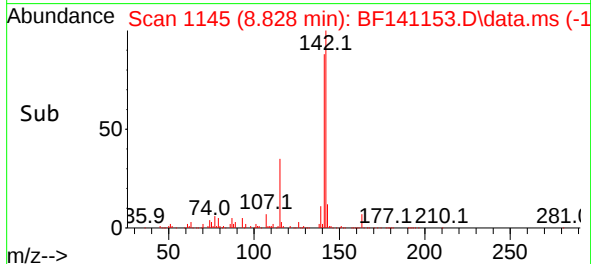
Instrument :  
BNA\_F  
ClientSampleId :  
FRAC-TANK-257952



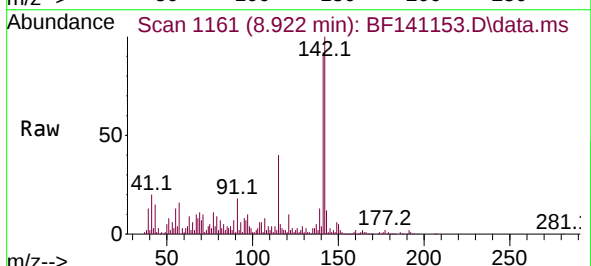
Tgt Ion:142 Resp: 37030  
Ion Ratio Lower Upper  
142 100  
141 88.4 71.3 106.9

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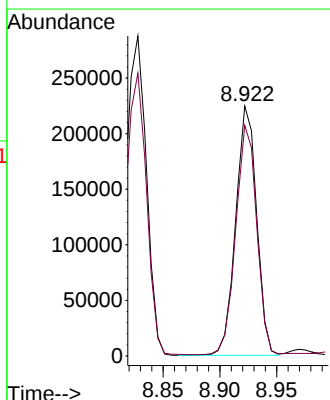
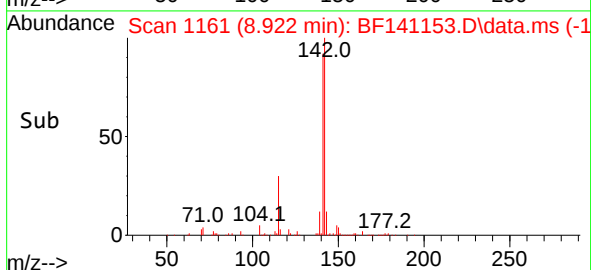
Reviewed By :Yogesh Patel 01/15/2025  
Supervised By :Jagrut Upadhyay 01/15/2025

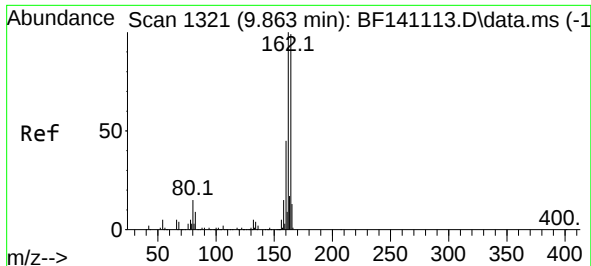


#38  
1-Methylnaphthalene  
Concen: 14.656 ng  
RT: 8.922 min Scan# 1161  
Delta R.T. 0.006 min  
Lab File: BF141153.D  
Acq: 14 Jan 2025 18:38



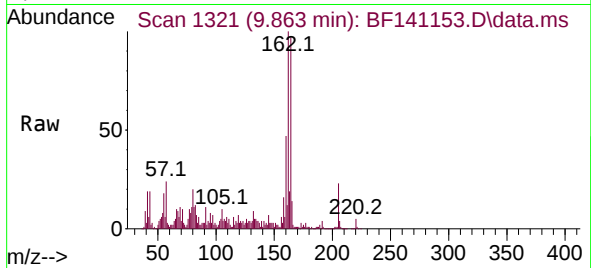
Tgt Ion:142 Resp: 287190  
Ion Ratio Lower Upper  
142 100  
141 92.3 73.1 109.7





#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.863 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: BF141153.D  
Acq: 14 Jan 2025 18:38

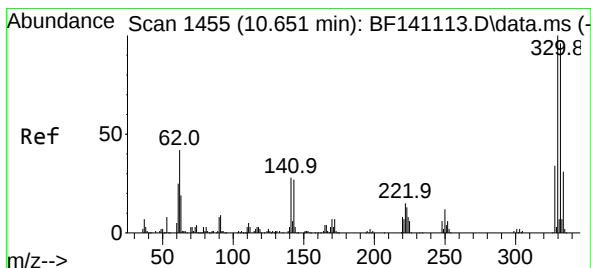
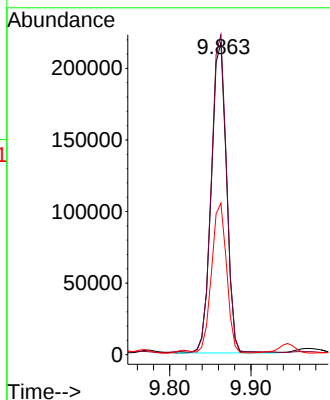
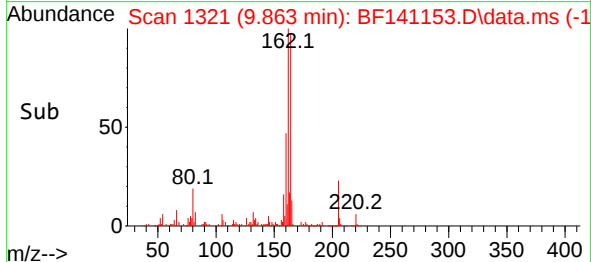
Instrument :  
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FRAC-TANK-257952



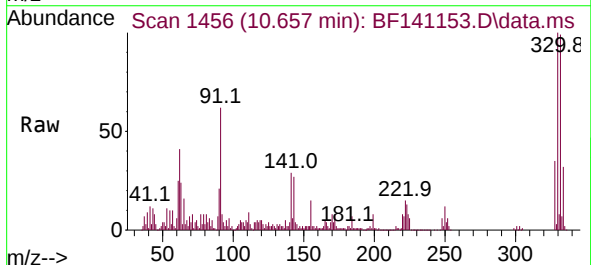
Tgt Ion:164 Resp: 282324  
Ion Ratio Lower Upper  
164 100  
162 102.6 81.0 121.4  
160 48.6 36.1 54.1

Manual Integrations  
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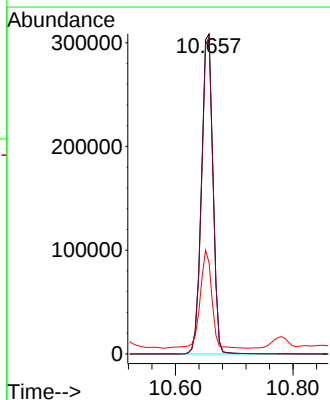
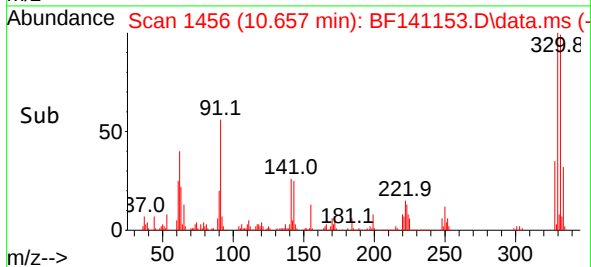
Reviewed By :Yogesh Patel 01/15/2025  
Supervised By :Jagrut Upadhyay 01/15/2025

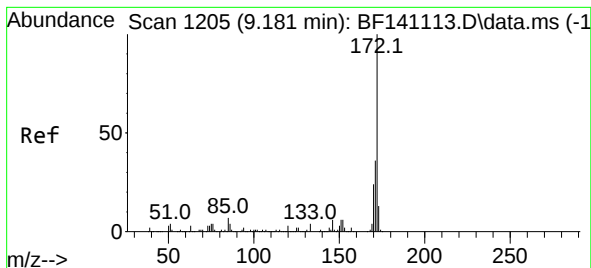


#42  
2,4,6-Tribromophenol  
Concen: 130.213 ng  
RT: 10.657 min Scan# 1456  
Delta R.T. 0.006 min  
Lab File: BF141153.D  
Acq: 14 Jan 2025 18:38



Tgt Ion:330 Resp: 418883  
Ion Ratio Lower Upper  
330 100  
332 98.4 76.9 115.3  
141 30.8 25.2 37.8





#45

2-Fluorobiphenyl

Concen: 93.069 ng

RT: 9.187 min Scan# 1205

Delta R.T. 0.006 min

Lab File: BF141153.D

Acq: 14 Jan 2025 18:38

Instrument :

BNA\_F

ClientSampleId :

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Tgt Ion:172 Resp: 172068

Ion Ratio Lower Upper

172 100

171 36.0 28.7 43.1

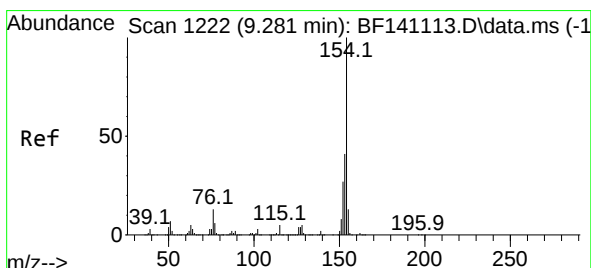
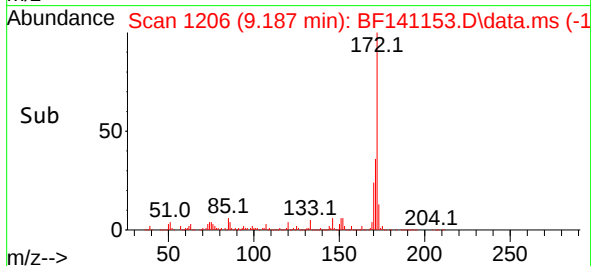
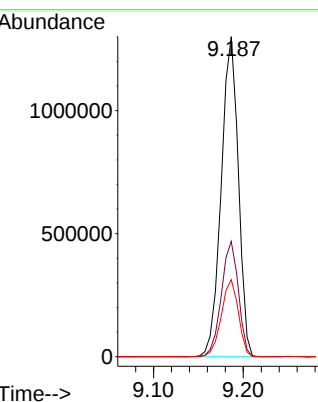
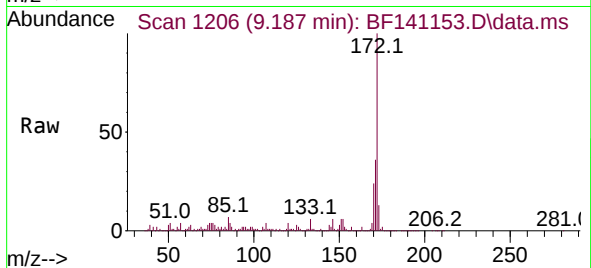
170 24.0 19.0 28.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/15/2025

Supervised By :Jagrut Upadhyay 01/15/2025



#46

1,1'-Biphenyl

Concen: 6.180 ng

RT: 9.281 min Scan# 1222

Delta R.T. 0.000 min

Lab File: BF141153.D

Acq: 14 Jan 2025 18:38

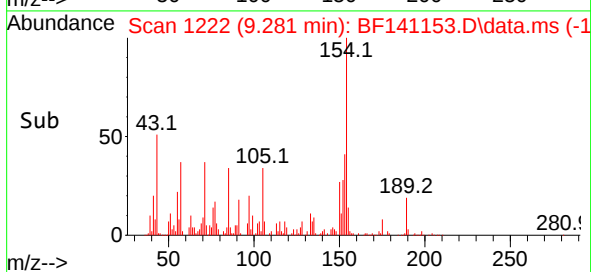
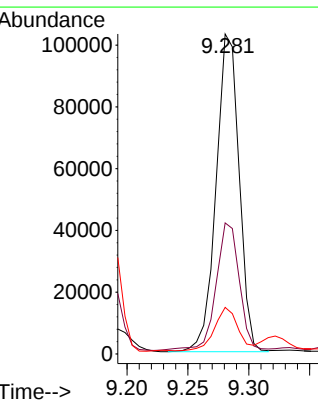
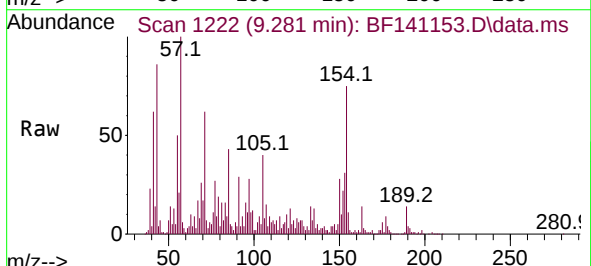
Tgt Ion:154 Resp: 135507

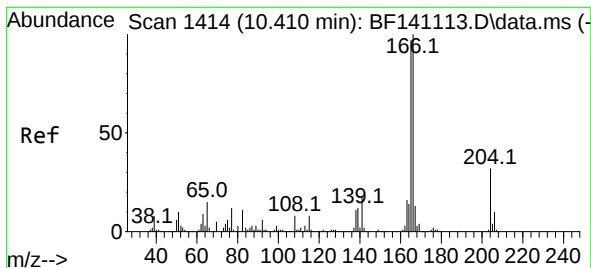
Ion Ratio Lower Upper

154 100

153 40.9 20.7 60.7

76 14.5 0.0 33.1





#58

Fluorene

Concen: 2.599 ng

RT: 10.410 min Scan# 1414

Delta R.T. 0.000 min

Lab File: BF141153.D

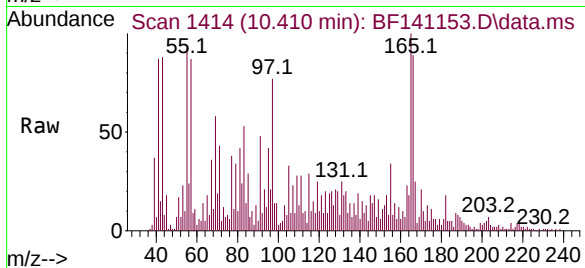
Acq: 14 Jan 2025 18:38

Instrument :

BNA\_F

ClientSampleId :

FRAC-TANK-257952



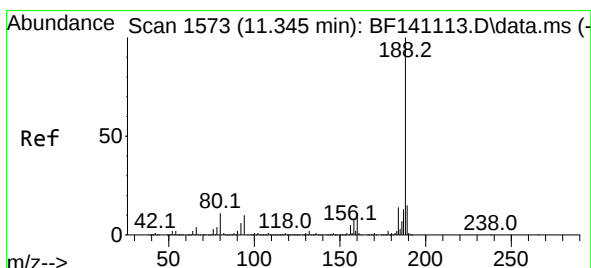
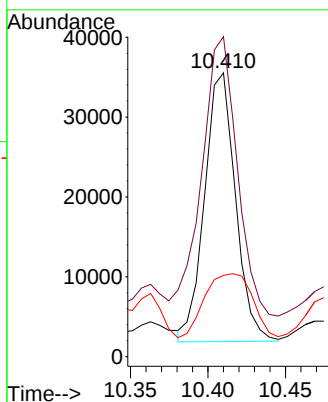
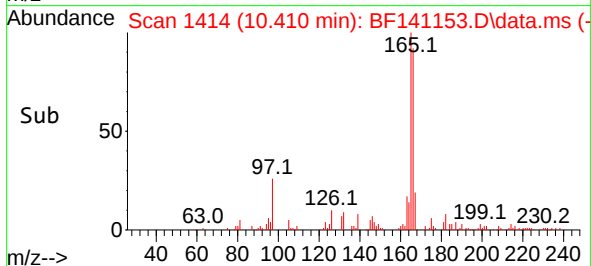
|             |       |            |
|-------------|-------|------------|
| Tgt Ion:166 | Resp: | 46809      |
| Ion Ratio   | Lower | Upper      |
| 166         | 100   |            |
| 165         | 112.7 | 77.8 116.8 |
| 167         | 28.6  | 10.8 16.2  |

Manual Integrations

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#64

Phenanthrene-d10

Concen: 20.000 ng

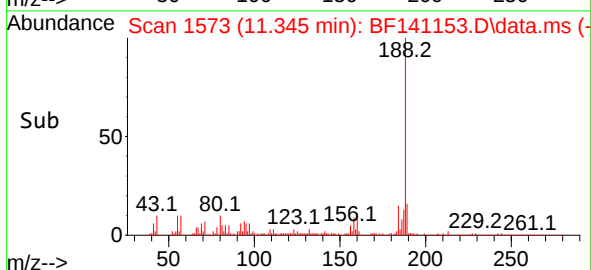
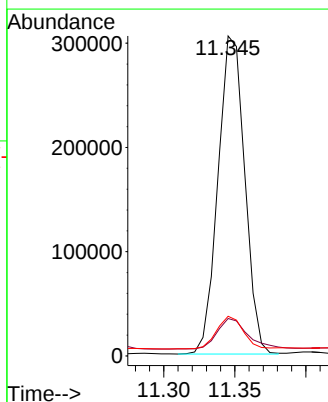
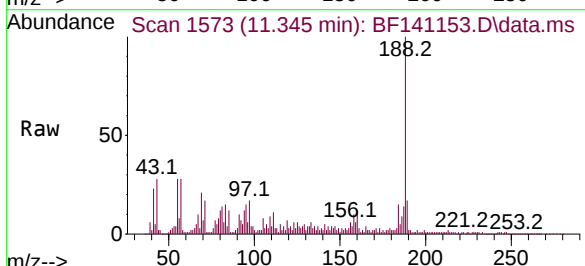
RT: 11.345 min Scan# 1573

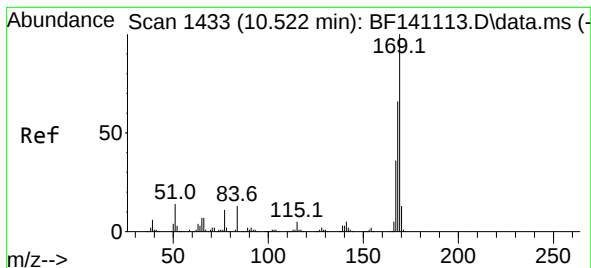
Delta R.T. 0.000 min

Lab File: BF141153.D

Acq: 14 Jan 2025 18:38

|             |       |          |
|-------------|-------|----------|
| Tgt Ion:188 | Resp: | 399017   |
| Ion Ratio   | Lower | Upper    |
| 188         | 100   |          |
| 94          | 11.7  | 8.3 12.5 |
| 80          | 12.4  | 9.0 13.4 |





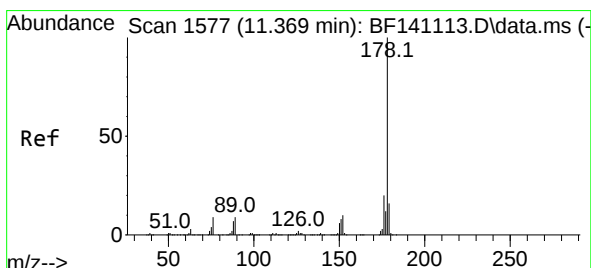
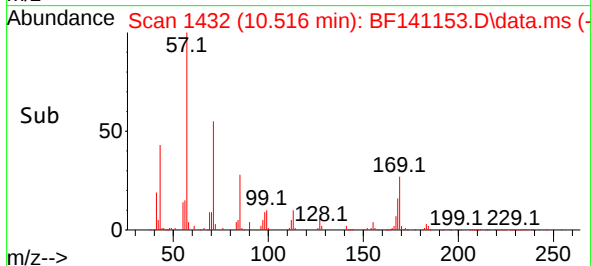
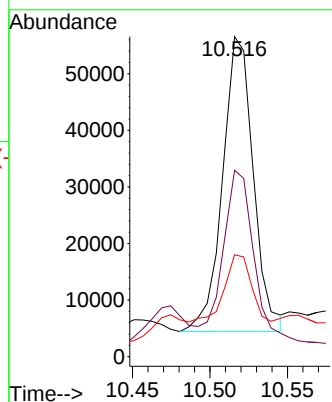
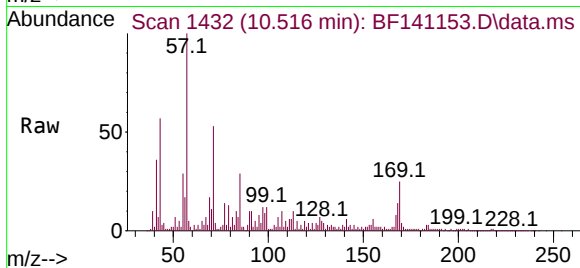
#66  
n-Nitrosodiphenylamine  
Concen: 5.582 ng  
RT: 10.516 min Scan# 1432  
Delta R.T. -0.006 min  
Lab File: BF141153.D  
Acq: 14 Jan 2025 18:38

Instrument :  
BNA\_F  
ClientSampleId :  
FRAC-TANK-257952

Tgt Ion:169 Resp: 71840  
Ion Ratio Lower Upper  
169 100  
168 58.3 52.5 78.7  
167 31.9 28.9 43.3

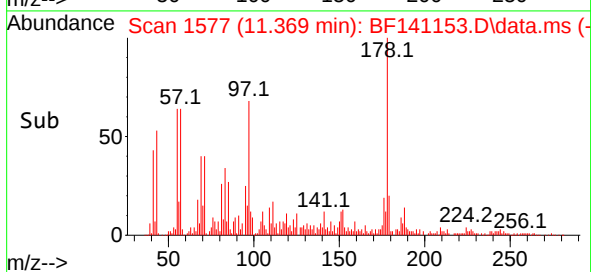
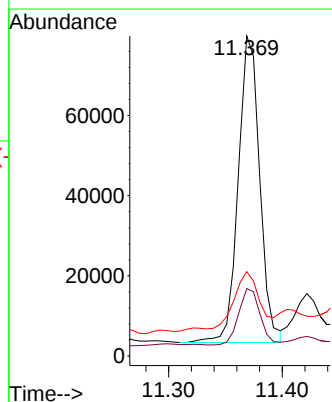
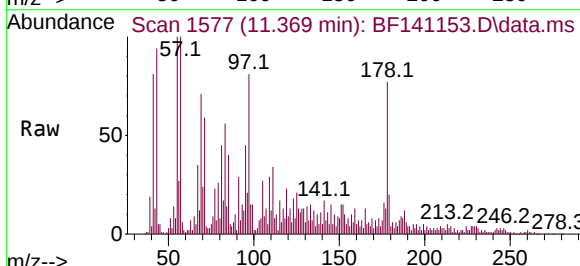
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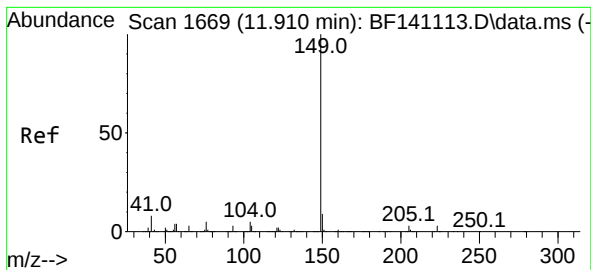
Reviewed By :Yogesh Patel 01/15/2025  
Supervised By :Jagrut Upadhyay 01/15/2025



#71  
Phenanthrene  
Concen: 4.701 ng  
RT: 11.369 min Scan# 1577  
Delta R.T. 0.000 min  
Lab File: BF141153.D  
Acq: 14 Jan 2025 18:38

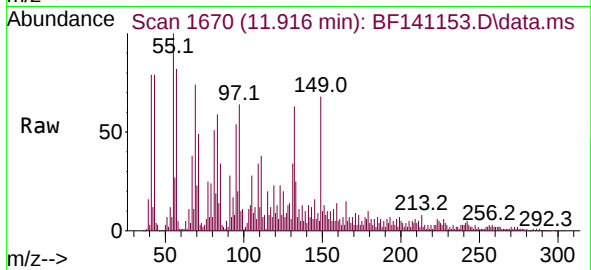
Tgt Ion:178 Resp: 100697  
Ion Ratio Lower Upper  
178 100  
176 21.0 15.7 23.5  
179 26.3 12.6 19.0#





#74  
Di-n-butylphthalate  
Concen: 6.264 ng  
RT: 11.916 min Scan# 10  
Delta R.T. 0.006 min  
Lab File: BF141153.D  
Acq: 14 Jan 2025 18:38

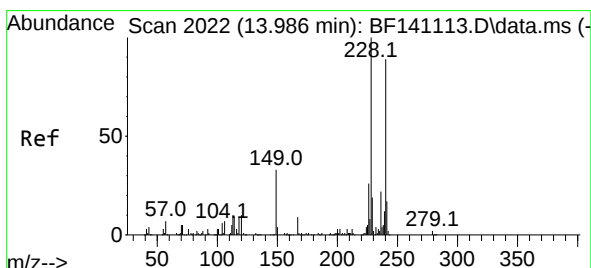
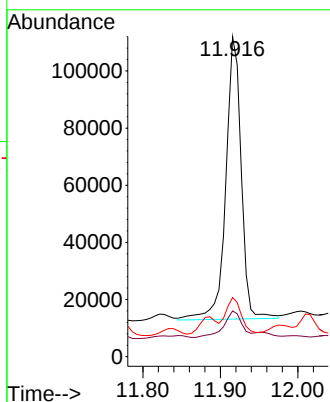
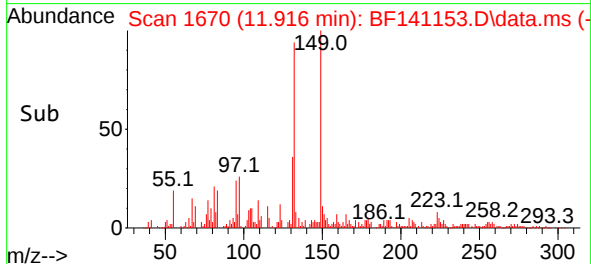
Instrument :  
BNA\_F  
ClientSampleId :  
FRAC-TANK-257952



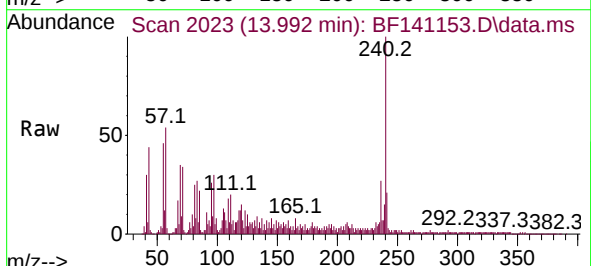
Tgt Ion:149 Resp: 136918  
Ion Ratio Lower Upper  
149 100  
150 14.3 7.4 11.2  
104 18.5 4.2 6.2

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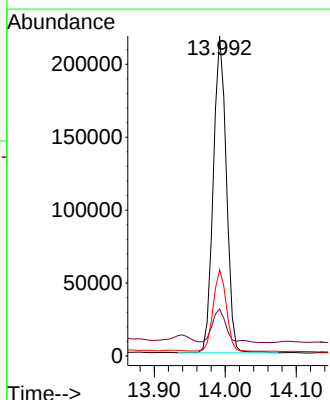
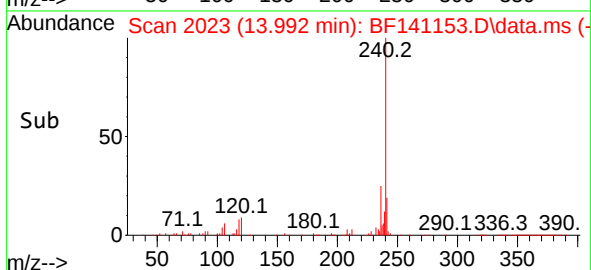
Reviewed By :Yogesh Patel 01/15/2025  
Supervised By :Jagrut Upadhyay 01/15/2025

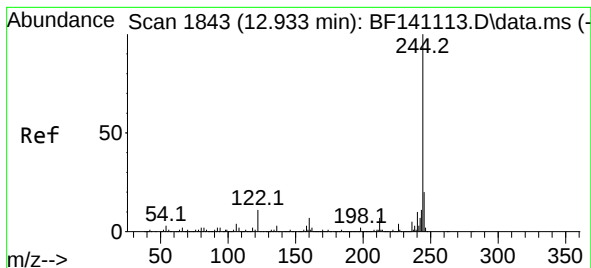


#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.992 min Scan# 2023  
Delta R.T. 0.006 min  
Lab File: BF141153.D  
Acq: 14 Jan 2025 18:38



Tgt Ion:240 Resp: 276676  
Ion Ratio Lower Upper  
240 100  
120 14.7 9.1 13.7#  
236 26.9 19.8 29.6





#79

Terphenyl-d14

Concen: 68.839 ng

RT: 12.945 min Scan# 1845

Delta R.T. 0.012 min

Lab File: BF141153.D

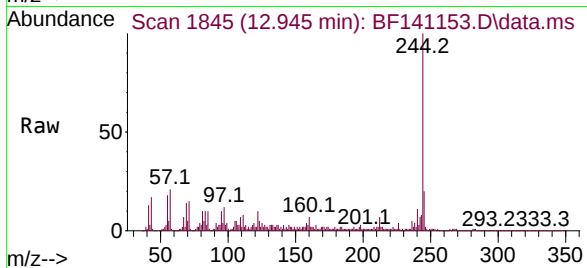
Acq: 14 Jan 2025 18:38

Instrument :

BNA\_F

ClientSampleId :

FRAC-TANK-257952



Tgt Ion:244 Resp: 128143

Ion Ratio Lower Upper

244 100

212 7.0 5.4 8.2

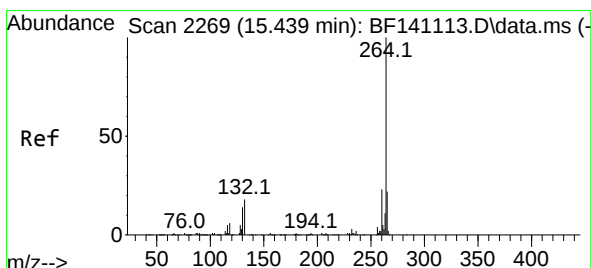
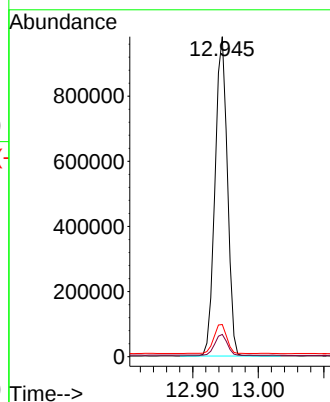
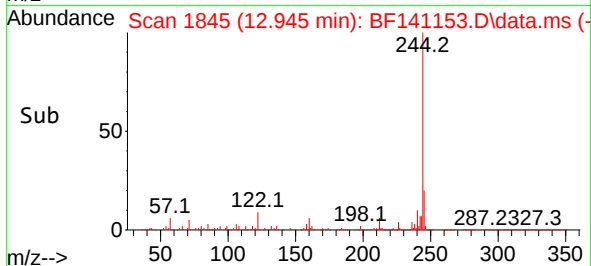
122 10.0 8.8 13.2

Manual Integrations

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Supervised By :Jagrut Upadhyay 01/15/2025



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.451 min Scan# 2271

Delta R.T. 0.012 min

Lab File: BF141153.D

Acq: 14 Jan 2025 18:38

Tgt Ion:264 Resp: 319811

Ion Ratio Lower Upper

264 100

260 23.6 18.6 28.0

265 21.5 17.4 26.0

