

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF091024\  
 Data File : BF139300.D  
 Acq On : 10 Sep 2024 15:29  
 Operator : RC/JU  
 Sample : P3905-03  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-3B

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 09/11/2024  
 Supervised By :mohammad ahmed 09/12/2024

Quant Time: Sep 10 16:01:15 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF090424.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Sep 04 16:11:43 2024  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.886  | 152  | 121029   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.169  | 136  | 441579   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.927  | 164  | 224068   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.410 | 188  | 329544   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12            | 14.057 | 240  | 191856   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12            | 15.533 | 264  | 168815   | 20.000 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.510  | 112  | 710403   | 98.192 | ng    | 0.00     |
| 7) Phenol-d6                | 6.510  | 99   | 929396   | 96.227 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.451  | 82   | 608284   | 71.662 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.716 | 330  | 181280   | 93.691 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.245  | 172  | 1063597  | 73.273 | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.998 | 244  | 727819   | 61.250 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 49) Acenaphthylene          | 9.786  | 152  | 63608    | 3.369  | ng    | 98       |
| 71) Phenanthrene            | 11.433 | 178  | 333559   | 21.667 | ng    | 99       |
| 72) Anthracene              | 11.486 | 178  | 96568    | 6.421  | ng    | 100      |
| 75) Fluoranthene            | 12.627 | 202  | 1293476  | 83.807 | ng    | 99       |
| 78) Pyrene                  | 12.863 | 202  | 1219306  | 65.789 | ng    | 99       |
| 81) Benzo(a)anthracene      | 14.045 | 228  | 702022   | 57.304 | ng    | 94       |
| 83) Chrysene                | 14.080 | 228  | 621752   | 54.378 | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene  | 17.015 | 276  | 274860m  | 26.063 | ng    |          |
| 88) Benzo(b)fluoranthene    | 15.104 | 252  | 795559m  | 81.831 | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.121 | 252  | 256101m  | 29.380 | ng    |          |
| 90) Benzo(a)pyrene          | 15.474 | 252  | 501993   | 60.809 | ng    | 98       |
| 91) Dibenzo(a,h)anthracene  | 17.021 | 278  | 62459m   | 7.187  | ng    |          |
| 92) Benzo(g,h,i)perylene    | 17.462 | 276  | 251046   | 27.984 | ng    | 98       |
| -----                       |        |      |          |        |       |          |

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

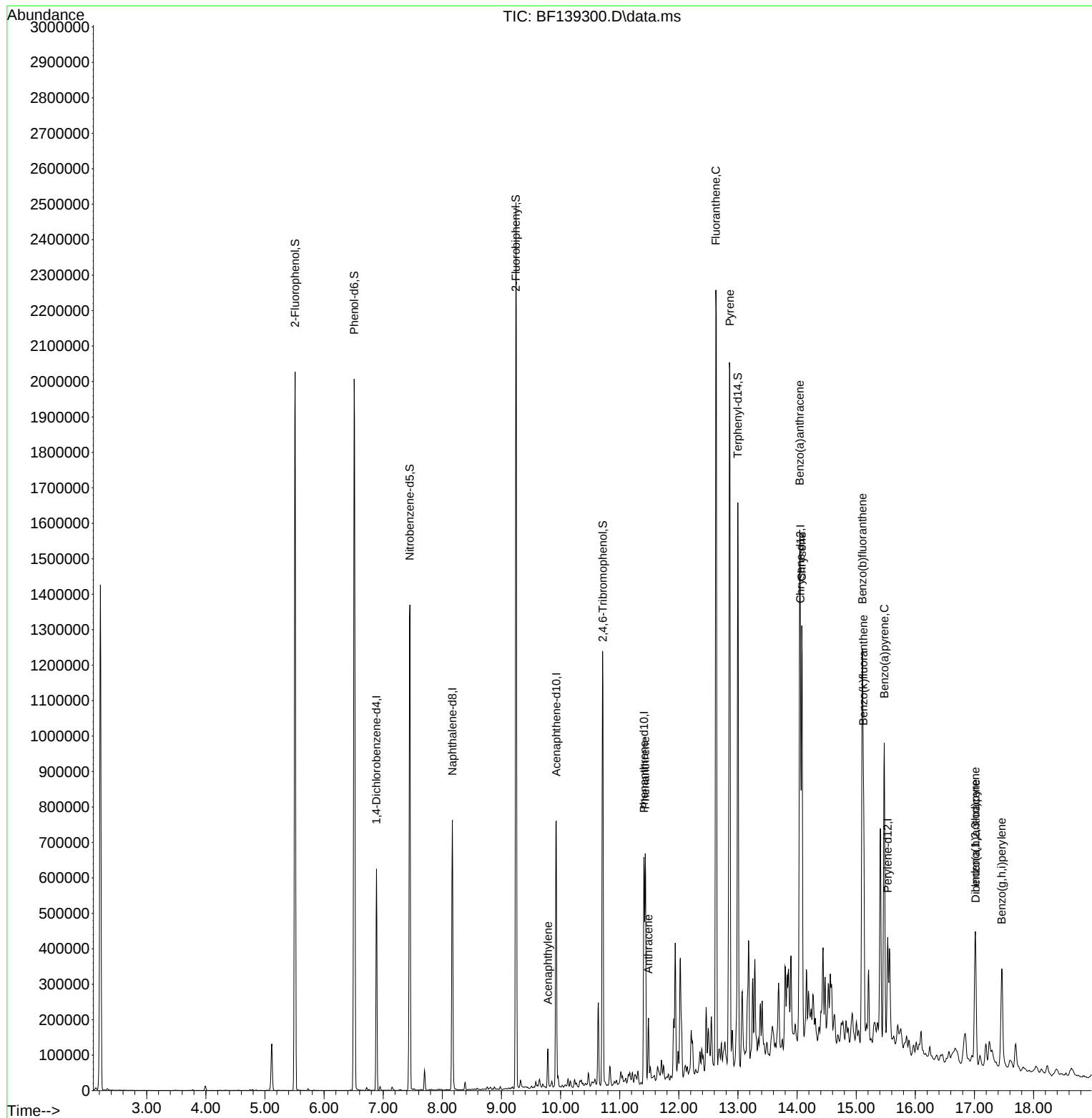
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF091024\  
Data File : BF139300.D  
Acq On : 10 Sep 2024 15:29  
Operator : RC/JU  
Sample : P3905-03  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-3B

Quant Time: Sep 10 16:01:15 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF090424.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Sep 04 16:11:43 2024  
Response via : Initial Calibration

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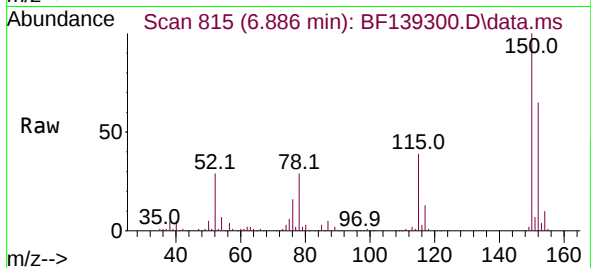
Reviewed By :Jagrut Upadhyay 09/11/2024  
Supervised By :mohammad ahmed 09/12/2024





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.886 min Scan# 816  
Delta R.T. -0.007 min  
Lab File: BF139300.D  
Acq: 10 Sep 2024 15:29

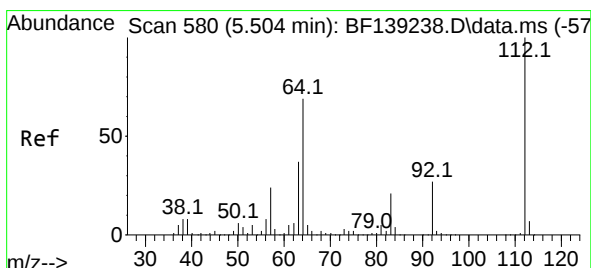
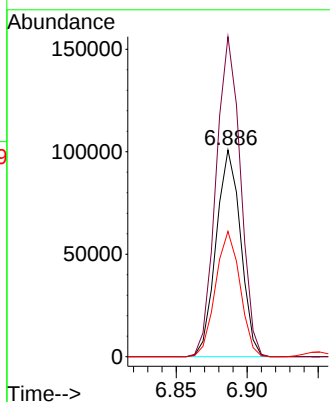
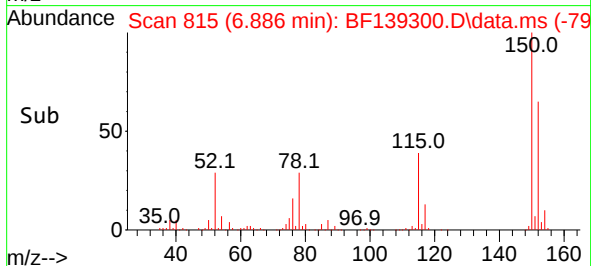
Instrument :  
BNA\_F  
ClientSampleId :  
TP-3B



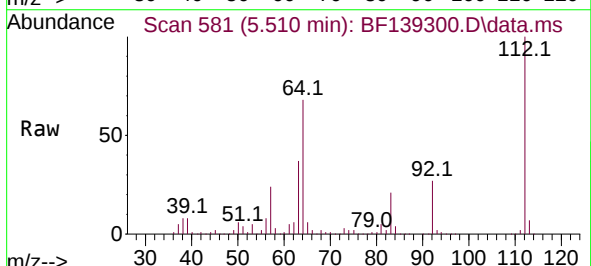
Tgt Ion:152 Resp: 121029  
Ion Ratio Lower Upper  
152 100  
150 154.8 127.0 190.4  
115 60.6 46.9 70.3

Manual Integrations  
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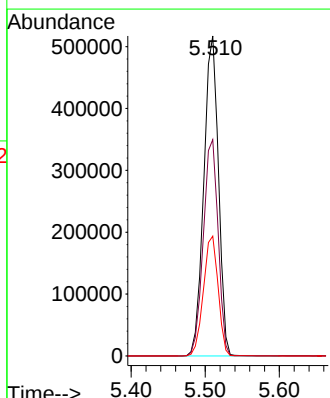
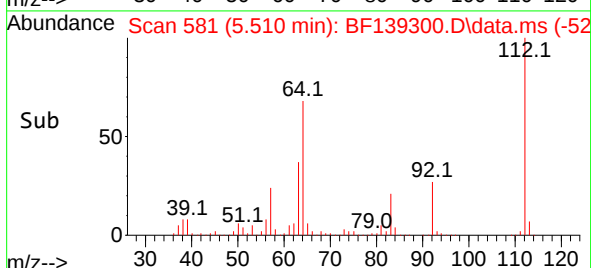
Reviewed By :Jagrut Upadhyay 09/11/2024  
Supervised By :mohammad ahmed 09/12/2024

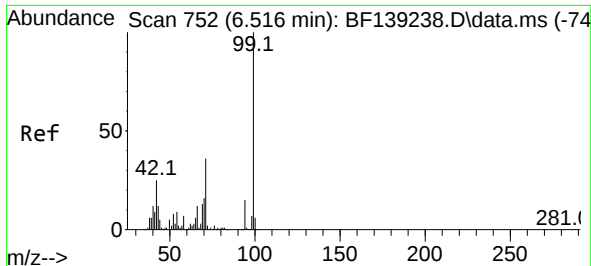


#5  
2-Fluorophenol  
Concen: 98.192 ng  
RT: 5.510 min Scan# 581  
Delta R.T. 0.006 min  
Lab File: BF139300.D  
Acq: 10 Sep 2024 15:29



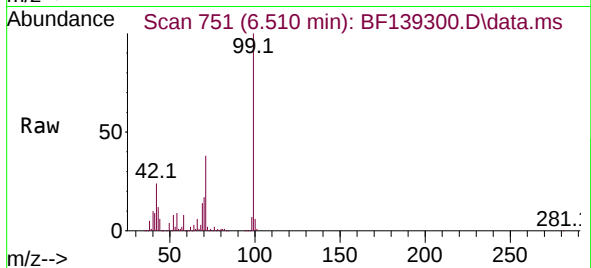
Tgt Ion:112 Resp: 710403  
Ion Ratio Lower Upper  
112 100  
64 67.6 55.0 82.4  
63 37.5 29.9 44.9





#7  
Phenol-d6  
Concen: 96.227 ng  
RT: 6.510 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: BF139300.D  
Acq: 10 Sep 2024 15:29

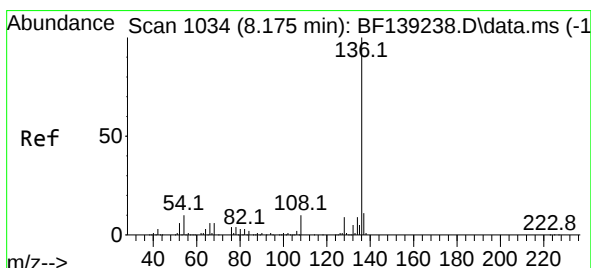
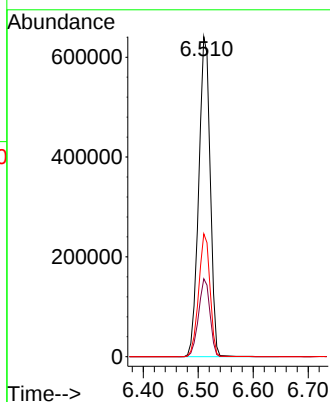
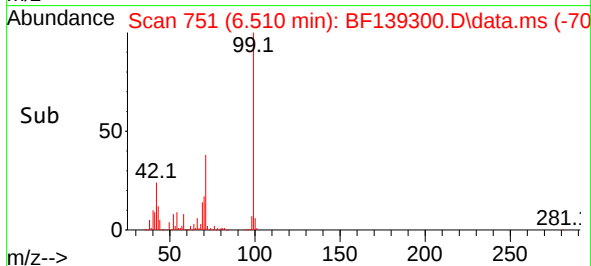
Instrument :  
BNA\_F  
ClientSampleId :  
TP-3B



Tgt Ion: 99 Resp: 929390  
Ion Ratio Lower Upper  
99 100  
42 24.4 19.8 29.6  
71 38.4 28.8 43.2

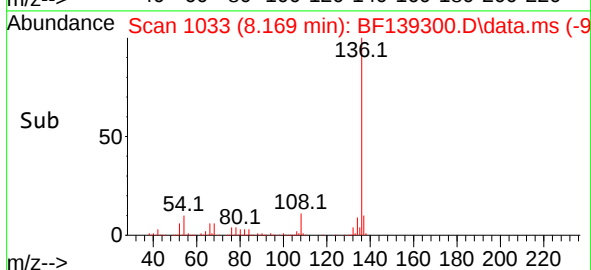
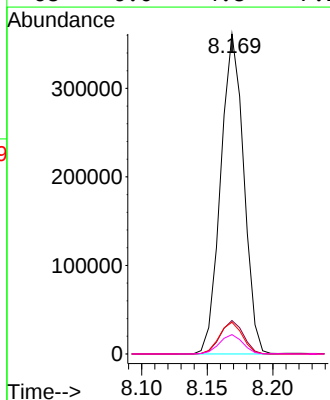
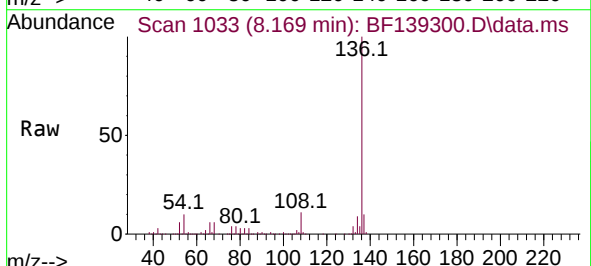
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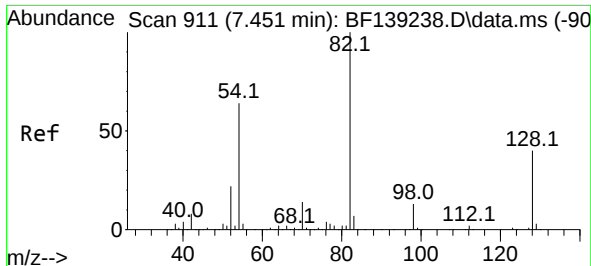
Reviewed By :Jagrut Upadhyay 09/11/2024  
Supervised By :mohammad ahmed 09/12/2024



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.169 min Scan# 1033  
Delta R.T. -0.006 min  
Lab File: BF139300.D  
Acq: 10 Sep 2024 15:29

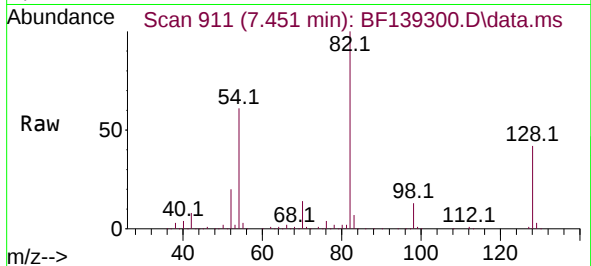
Tgt Ion:136 Resp: 441579  
Ion Ratio Lower Upper  
136 100  
137 10.4 8.6 13.0  
54 9.9 8.4 12.6  
68 6.0 4.8 7.2





#23  
Nitrobenzene-d5  
Concen: 71.662 ng  
RT: 7.451 min Scan# 911  
Delta R.T. -0.000 min  
Lab File: BF139300.D  
Acq: 10 Sep 2024 15:29

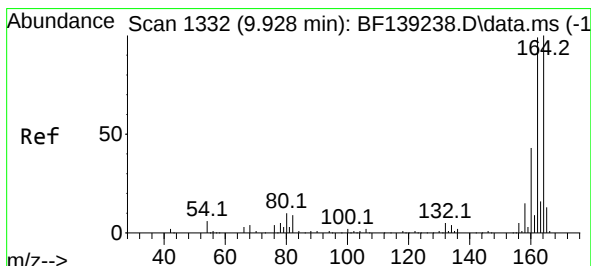
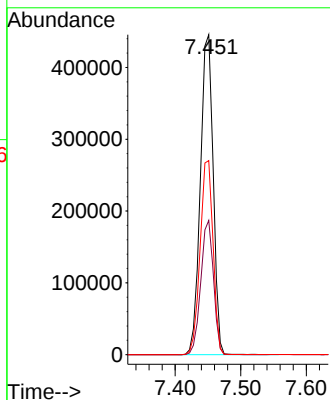
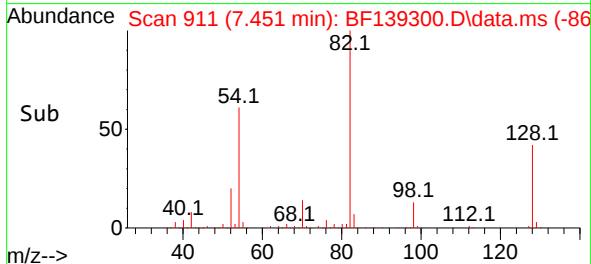
Instrument :  
BNA\_F  
ClientSampleId :  
TP-3B



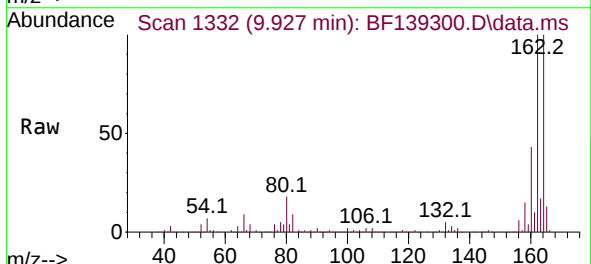
Tgt Ion: 82 Resp: 608284  
Ion Ratio Lower Upper  
82 100  
128 41.9 32.3 48.5  
54 60.7 51.2 76.8

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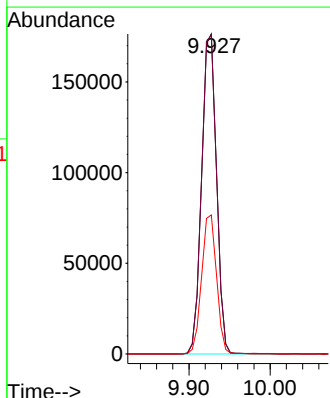
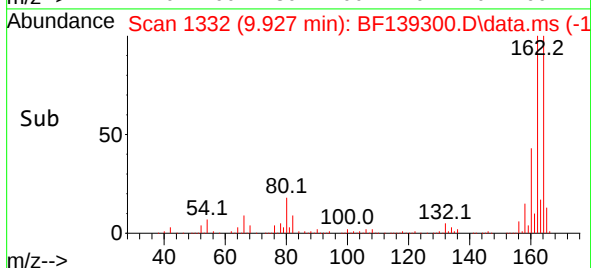
Reviewed By :Jagrut Upadhyay 09/11/2024  
Supervised By :mohammad ahmed 09/12/2024

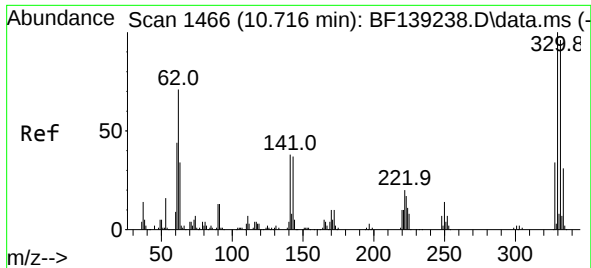


#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.927 min Scan# 1332  
Delta R.T. -0.000 min  
Lab File: BF139300.D  
Acq: 10 Sep 2024 15:29



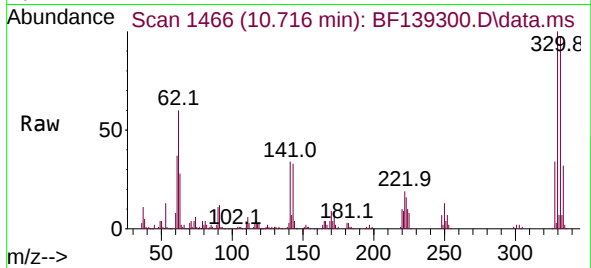
Tgt Ion:164 Resp: 224068  
Ion Ratio Lower Upper  
164 100  
162 99.7 79.2 118.8  
160 43.5 34.2 51.2





#42  
2,4,6-Tribromophenol  
Concen: 93.691 ng  
RT: 10.716 min Scan# 1466  
Delta R.T. -0.000 min  
Lab File: BF139300.D  
Acq: 10 Sep 2024 15:29

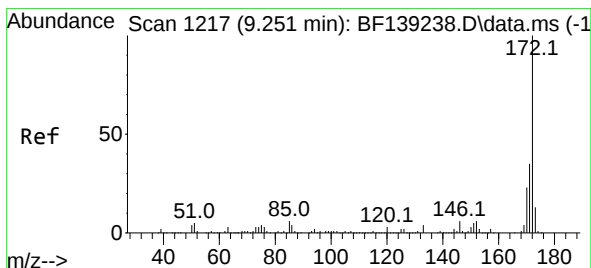
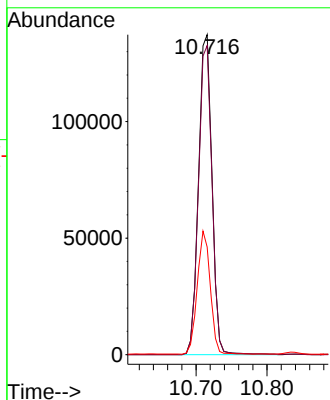
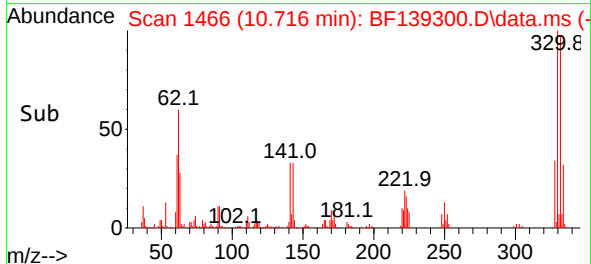
Instrument :  
BNA\_F  
ClientSampleId :  
TP-3B



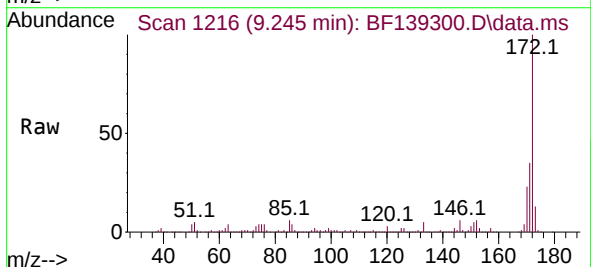
Tgt Ion:330 Resp: 181280  
Ion Ratio Lower Upper  
330 100  
332 97.4 76.6 115.0  
141 37.0 30.1 45.1

Manual Integrations  
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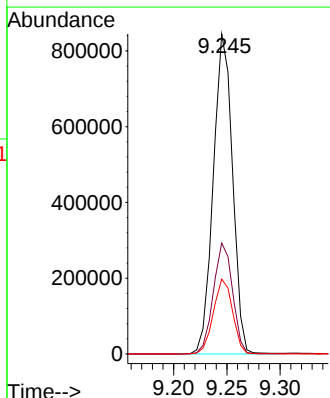
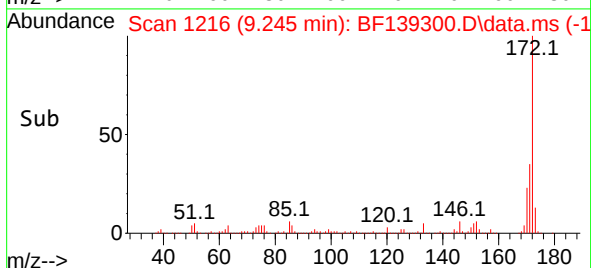
Reviewed By :Jagrut Upadhyay 09/11/2024  
Supervised By :mohammad ahmed 09/12/2024

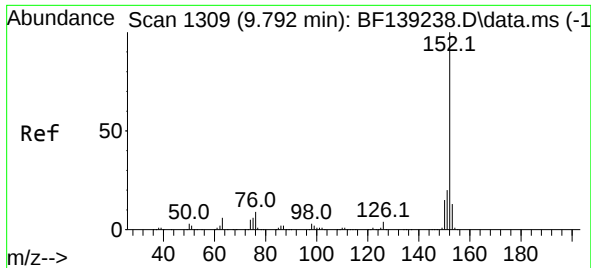


#45  
2-Fluorobiphenyl  
Concen: 73.273 ng  
RT: 9.245 min Scan# 1216  
Delta R.T. -0.006 min  
Lab File: BF139300.D  
Acq: 10 Sep 2024 15:29



Tgt Ion:172 Resp: 1063597  
Ion Ratio Lower Upper  
172 100  
171 34.7 28.3 42.5  
170 23.4 18.7 28.1





#49

Acenaphthylene

Concen: 3.369 ng

RT: 9.786 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF139300.D

Acq: 10 Sep 2024 15:29

Instrument :

BNA\_F

ClientSampleId :

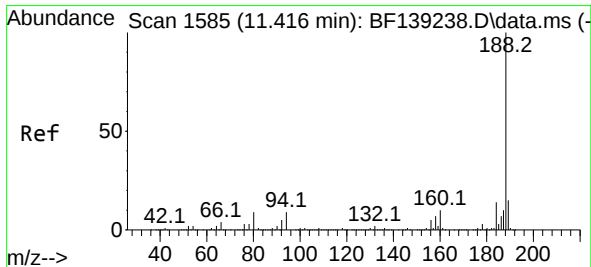
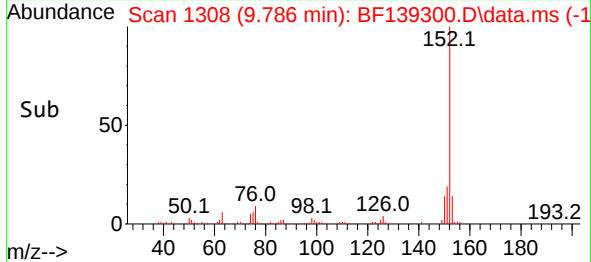
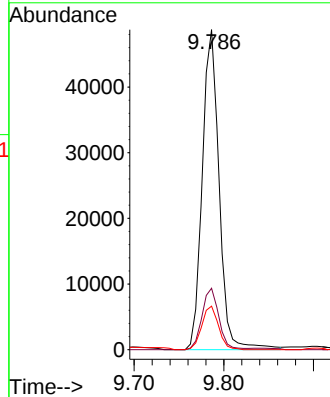
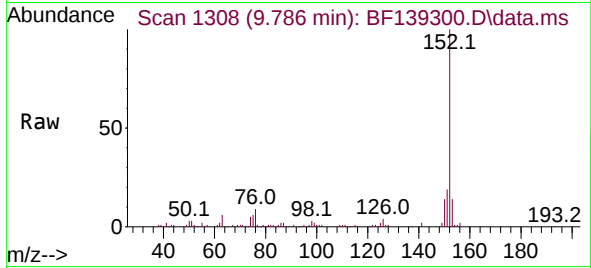
TP-3B

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 63608 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 19.2  | 16.0  | 24.0  |
| 153       | 13.6  | 10.4  | 15.6  |

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 09/11/2024  
Supervised By :mohammad ahmed 09/12/2024



#64

Phenanthrene-d10

Concen: 20.000 ng

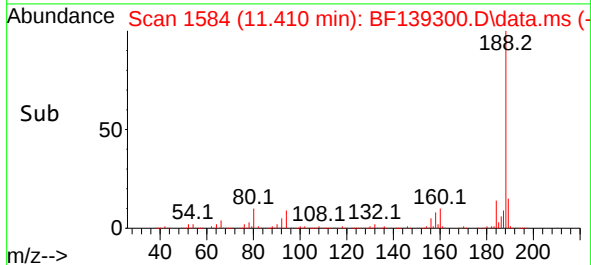
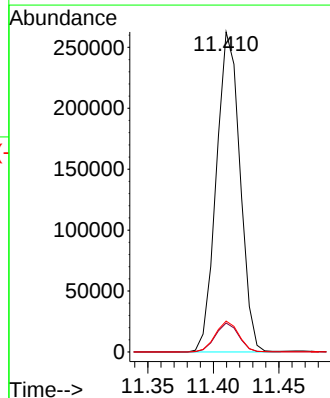
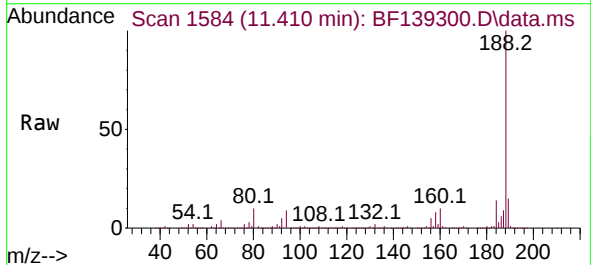
RT: 11.410 min Scan# 1584

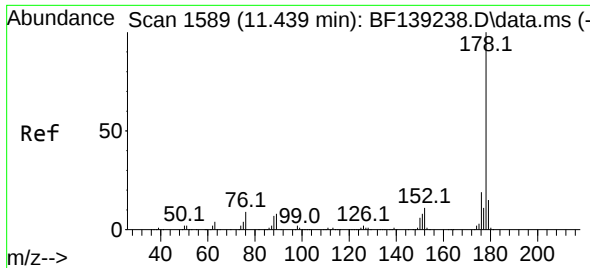
Delta R.T. -0.006 min

Lab File: BF139300.D

Acq: 10 Sep 2024 15:29

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 188   | Resp: | 329544 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 9.0   | 7.0   | 10.4   |
| 80        | 9.7   | 7.3   | 10.9   |





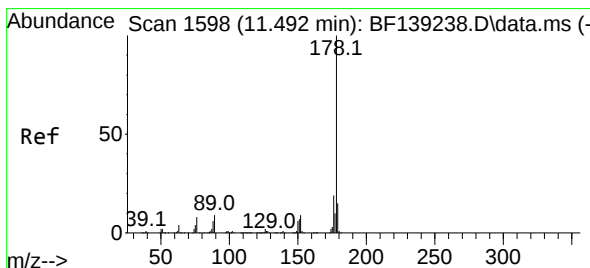
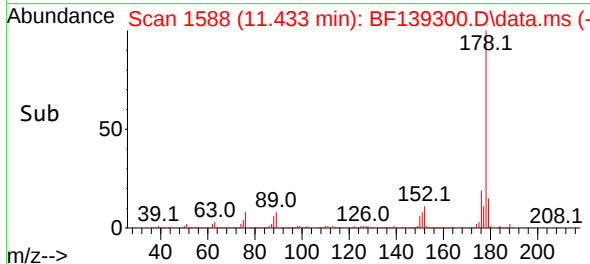
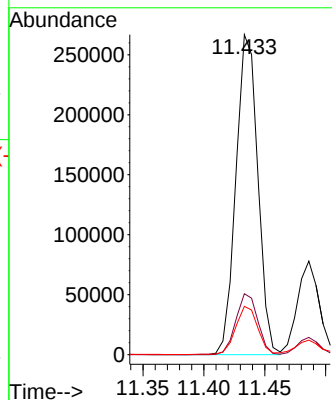
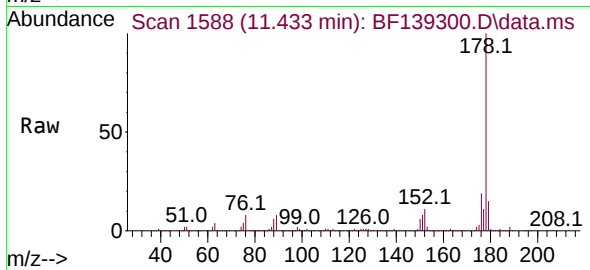
#71  
Phenanthrene  
Concen: 21.667 ng  
RT: 11.433 min Scan# 1589  
Delta R.T. -0.006 min  
Lab File: BF139300.D  
Acq: 10 Sep 2024 15:29

Instrument :  
BNA\_F  
ClientSampleId :  
TP-3B

Tgt Ion:178 Resp: 333559  
Ion Ratio Lower Upper  
178 100  
176 19.0 15.4 23.0  
179 15.1 12.3 18.5

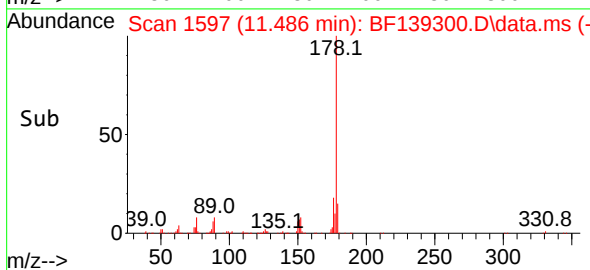
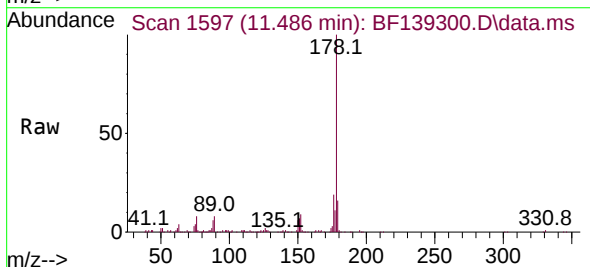
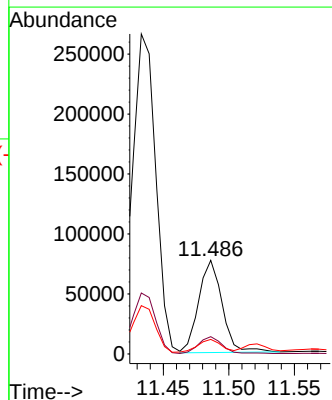
Manual Integrations  
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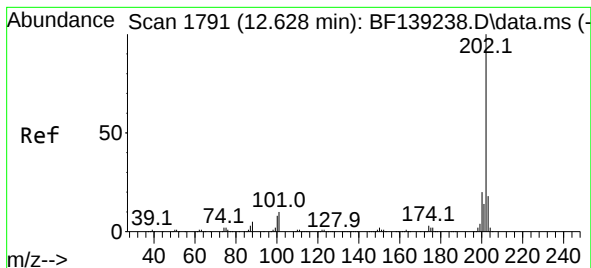
Reviewed By :Jagrut Upadhyay 09/11/2024  
Supervised By :mohammad ahmed 09/12/2024



#72  
Anthracene  
Concen: 6.421 ng  
RT: 11.486 min Scan# 1597  
Delta R.T. -0.006 min  
Lab File: BF139300.D  
Acq: 10 Sep 2024 15:29

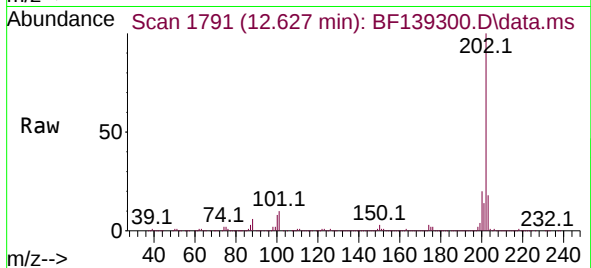
Tgt Ion:178 Resp: 96568  
Ion Ratio Lower Upper  
178 100  
176 18.5 15.0 22.4  
179 15.6 12.3 18.5





#75  
Fluoranthene  
Concen: 83.807 ng  
RT: 12.627 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: BF139300.D  
Acq: 10 Sep 2024 15:29

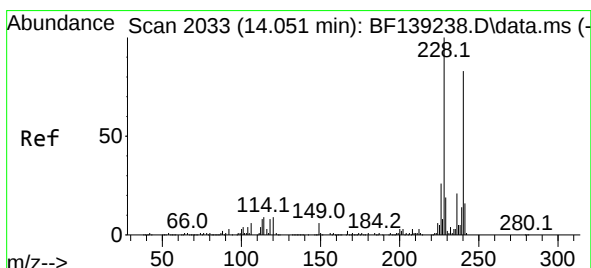
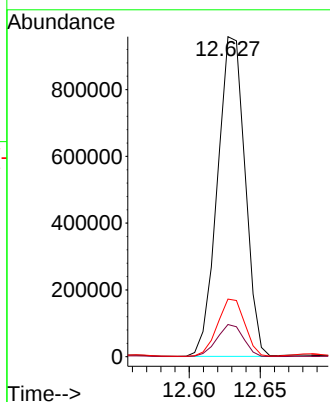
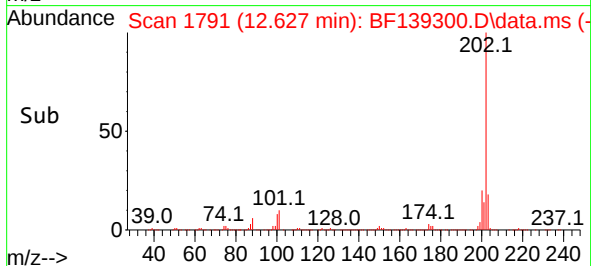
Instrument :  
BNA\_F  
ClientSampleId :  
TP-3B



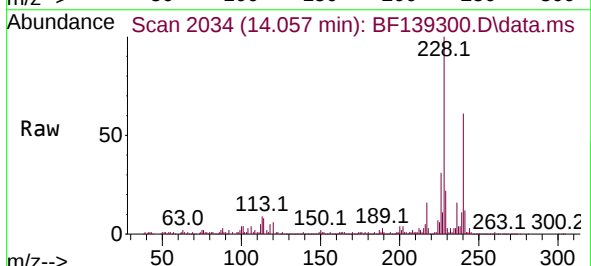
Tgt Ion:202 Resp: 1293470  
Ion Ratio Lower Upper  
202 100  
101 10.1 0.0 29.9  
203 18.0 0.0 37.7

Manual Integrations  
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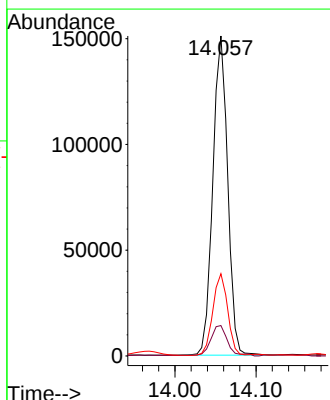
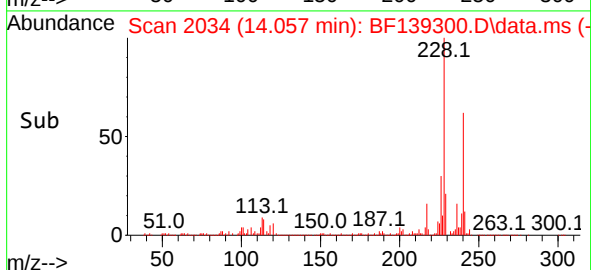
Reviewed By :Jagrut Upadhyay 09/11/2024  
Supervised By :mohammad ahmed 09/12/2024

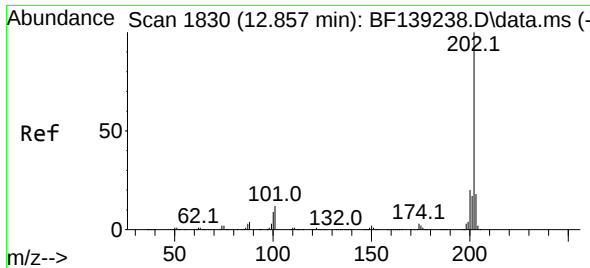


#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.057 min Scan# 2034  
Delta R.T. 0.006 min  
Lab File: BF139300.D  
Acq: 10 Sep 2024 15:29



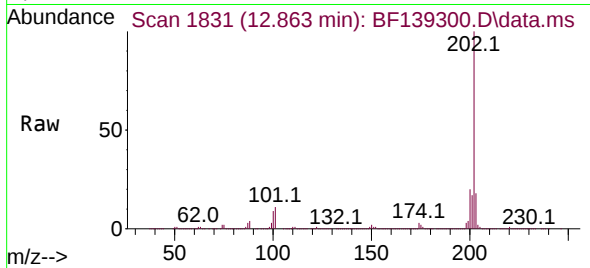
Tgt Ion:240 Resp: 191856  
Ion Ratio Lower Upper  
240 100  
120 9.5 8.6 12.8  
236 25.7 20.7 31.1





#78  
Pyrene  
Concen: 65.789 ng  
RT: 12.863 min Scan# 1831  
Delta R.T. 0.006 min  
Lab File: BF139300.D  
Acq: 10 Sep 2024 15:29

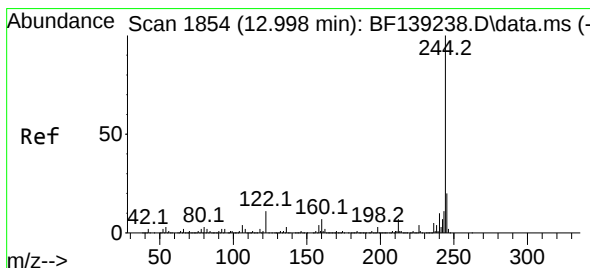
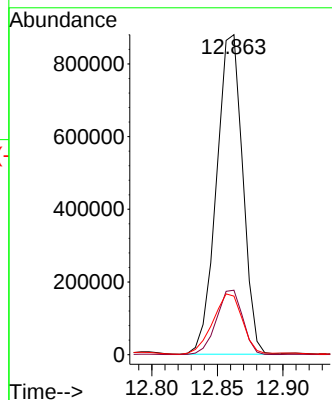
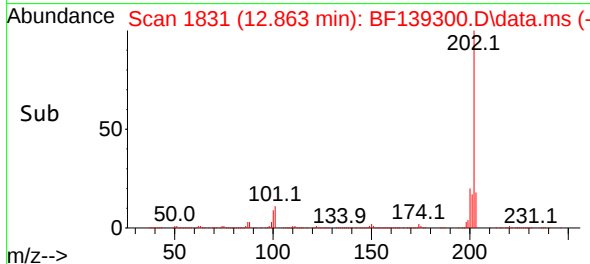
Instrument :  
BNA\_F  
ClientSampleId :  
TP-3B



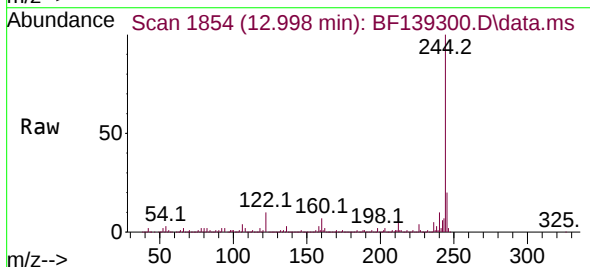
Tgt Ion:202 Resp: 1219300  
Ion Ratio Lower Upper  
202 100  
200 20.2 15.8 23.8  
203 18.3 14.1 21.1

Manual Integrations  
APPROVED

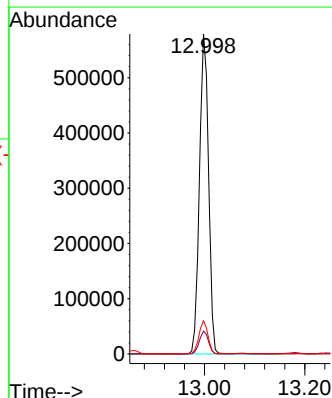
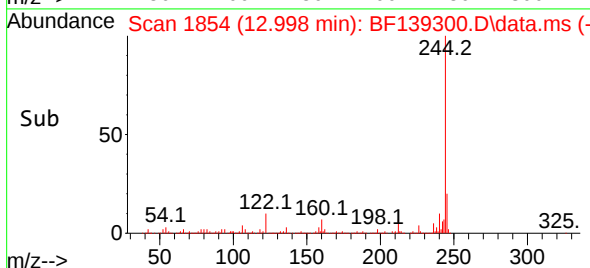
Reviewed By :Jagrut Upadhyay 09/11/2024  
Supervised By :mohammad ahmed 09/12/2024

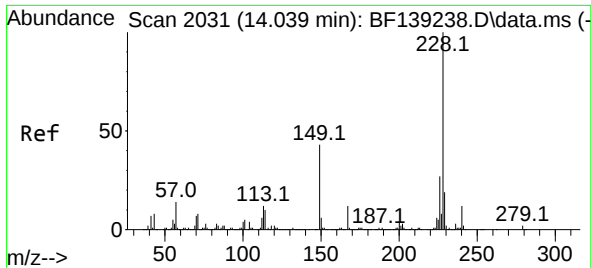


#79  
Terphenyl-d14  
Concen: 61.250 ng  
RT: 12.998 min Scan# 1854  
Delta R.T. -0.000 min  
Lab File: BF139300.D  
Acq: 10 Sep 2024 15:29



Tgt Ion:244 Resp: 727819  
Ion Ratio Lower Upper  
244 100  
212 7.2 5.9 8.9  
122 10.3 8.7 13.1





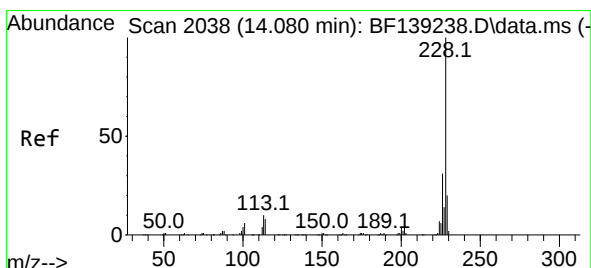
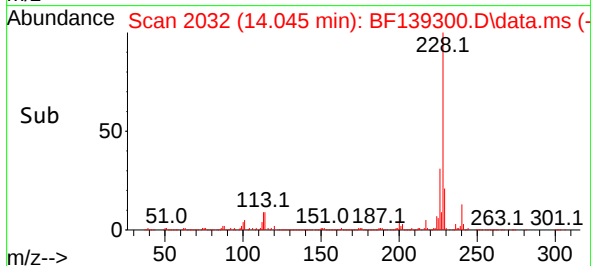
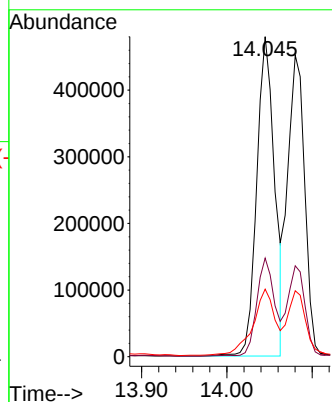
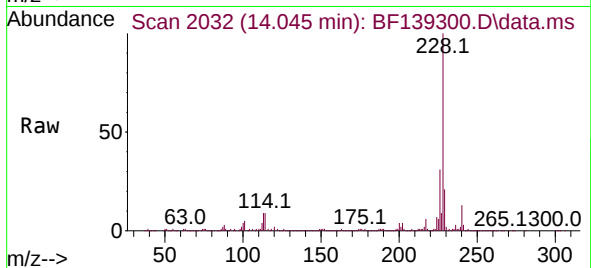
#81  
Benzo(a)anthracene  
Concen: 57.304 ng  
RT: 14.045 min Scan# 2031  
Delta R.T. 0.006 min  
Lab File: BF139300.D  
Acq: 10 Sep 2024 15:29

Instrument :  
BNA\_F  
ClientSampleId :  
TP-3B

Tgt Ion:228 Resp: 70202  
Ion Ratio Lower Upper  
228 100  
226 30.8 21.5 32.3  
229 21.1 15.6 23.4

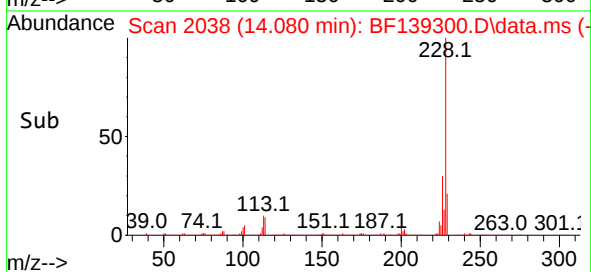
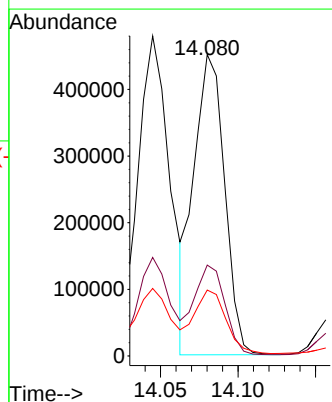
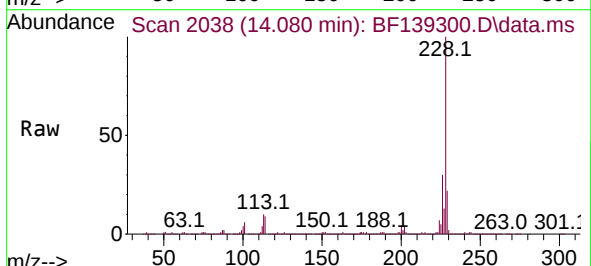
Manual Integrations  
APPROVED

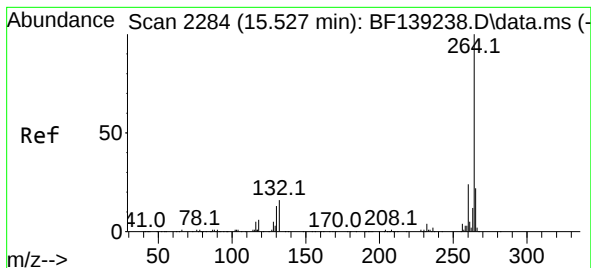
Reviewed By :Jagrut Upadhyay 09/11/2024  
Supervised By :mohammad ahmed 09/12/2024



#83  
Chrysene  
Concen: 54.378 ng  
RT: 14.080 min Scan# 2038  
Delta R.T. -0.000 min  
Lab File: BF139300.D  
Acq: 10 Sep 2024 15:29

Tgt Ion:228 Resp: 621752  
Ion Ratio Lower Upper  
228 100  
226 30.2 23.8 35.8  
229 21.9 15.8 23.6





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.533 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF139300.D

Acq: 10 Sep 2024 15:29

Instrument :

BNA\_F

ClientSampleId :

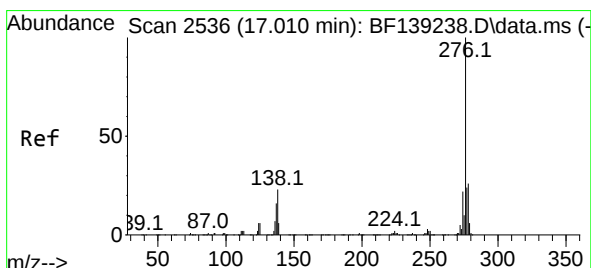
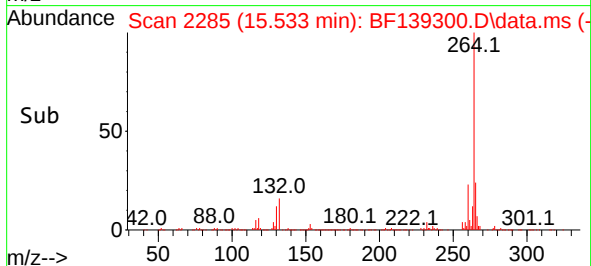
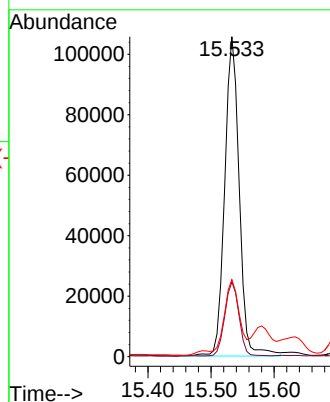
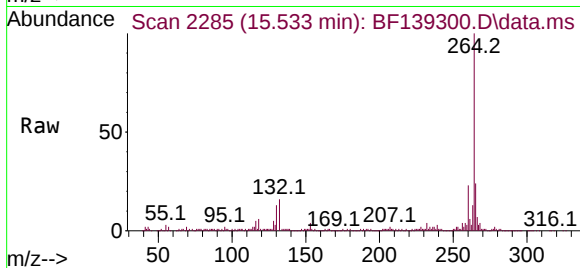
TP-3B

|             |                |
|-------------|----------------|
| Tgt Ion:264 | Resp: 16881    |
| Ion Ratio   | Lower Upper    |
| 264         | 100            |
| 260         | 23.4 18.8 28.2 |
| 265         | 24.1 17.3 25.9 |

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 09/11/2024  
Supervised By :mohammad ahmed 09/12/2024



#87

Indeno(1,2,3-cd)pyrene

Concen: 26.063 ng m

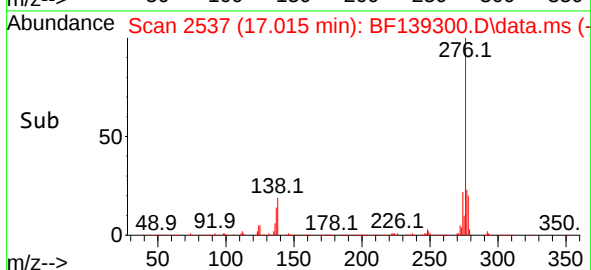
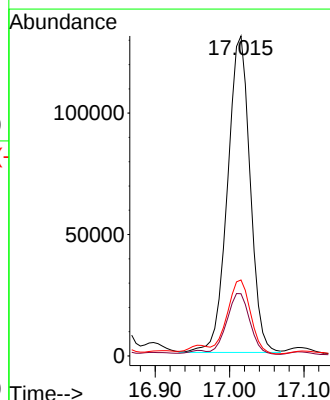
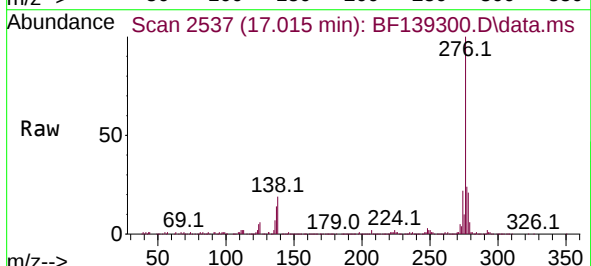
RT: 17.015 min Scan# 2537

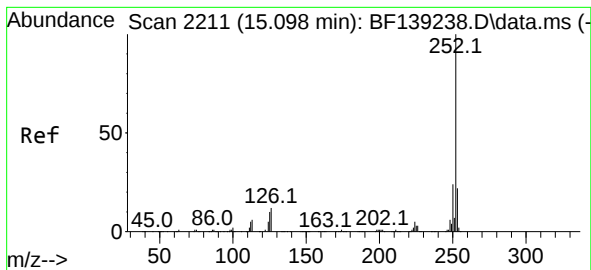
Delta R.T. 0.006 min

Lab File: BF139300.D

Acq: 10 Sep 2024 15:29

|             |                |
|-------------|----------------|
| Tgt Ion:276 | Resp: 274860   |
| Ion Ratio   | Lower Upper    |
| 276         | 100            |
| 138         | 4.0 20.4 30.6# |
| 277         | 4.5 20.3 30.5# |





#88

Benzo(b)fluoranthene

Concen: 81.831 ng m

RT: 15.104 min Scan# 2212

Delta R.T. 0.006 min

Lab File: BF139300.D

Acq: 10 Sep 2024 15:29

Instrument :

BNA\_F

ClientSampleId :

TP-3B

Tgt Ion:252 Resp: 79555

Ion Ratio Lower Upper

252 100

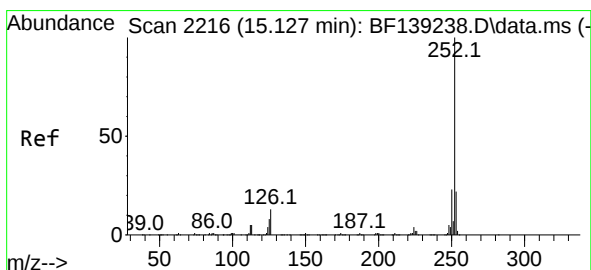
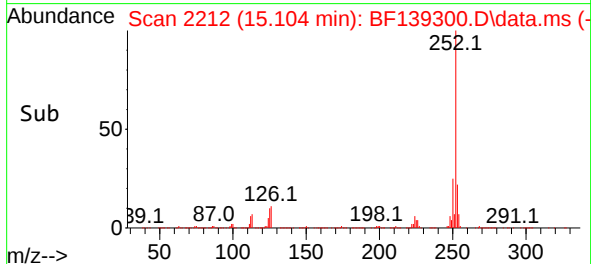
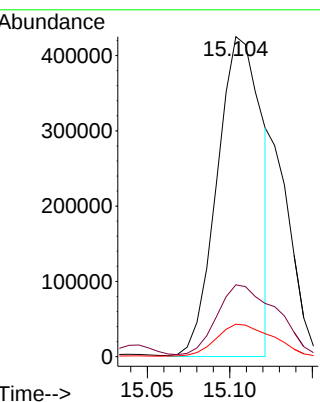
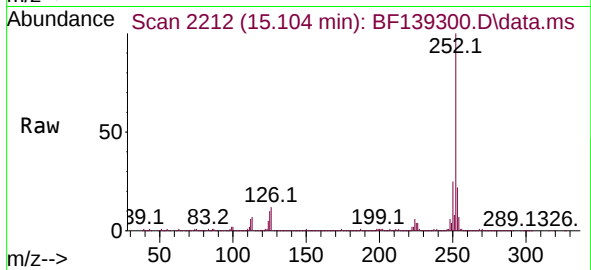
253 22.5 17.6 26.4

125 10.2 7.6 11.4

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 09/11/2024  
Supervised By :mohammad ahmed 09/12/2024



#89

Benzo(k)fluoranthene

Concen: 29.380 ng m

RT: 15.121 min Scan# 2215

Delta R.T. -0.006 min

Lab File: BF139300.D

Acq: 10 Sep 2024 15:29

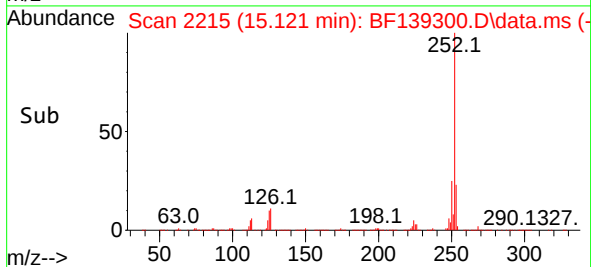
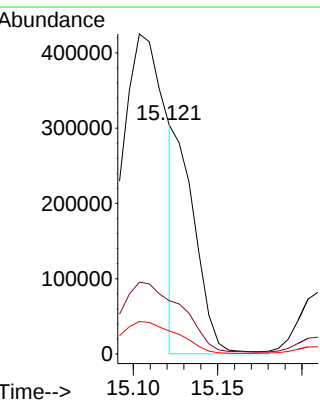
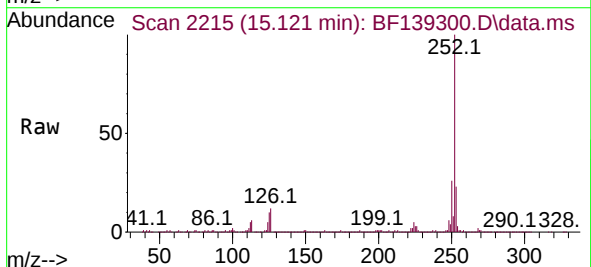
Tgt Ion:252 Resp: 256101

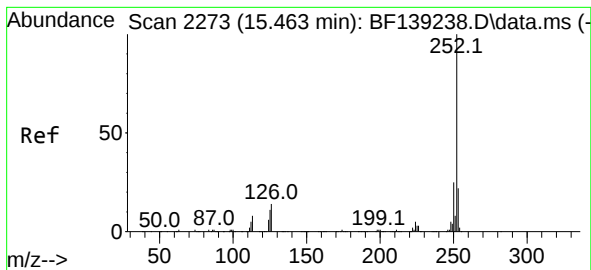
Ion Ratio Lower Upper

252 100

253 23.3 17.6 26.4

125 10.0 7.2 10.8





#90

Benzo(a)pyrene

Concen: 60.809 ng

RT: 15.474 min Scan# 21

Delta R.T. 0.012 min

Lab File: BF139300.D

Acq: 10 Sep 2024 15:29

Instrument :

BNA\_F

ClientSampleId :

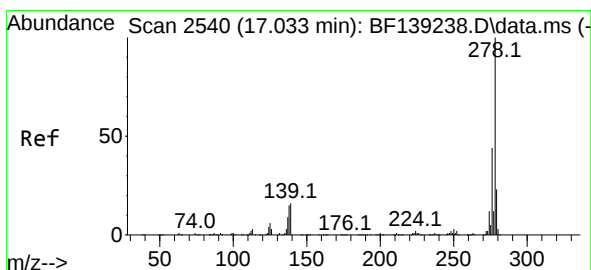
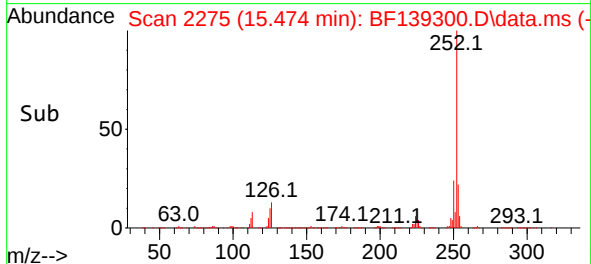
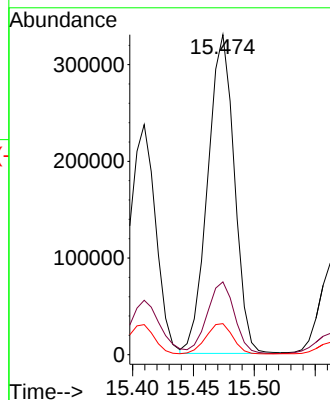
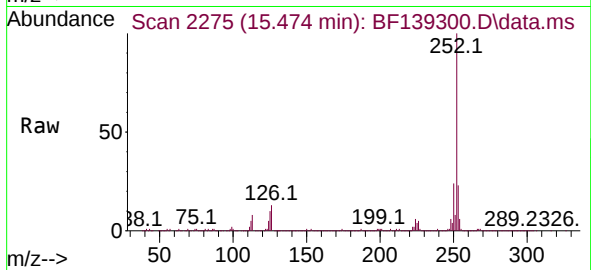
TP-3B

Tgt Ion:252 Resp: 50199  
 Ion Ratio Lower Upper  
 252 100  
 253 22.8 17.5 26.3  
 125 9.7 8.6 13.0

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 09/11/2024  
 Supervised By :mohammad ahmed 09/12/2024



#91

Dibenzo(a,h)anthracene

Concen: 7.187 ng m

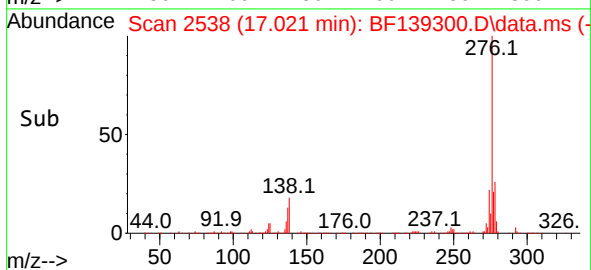
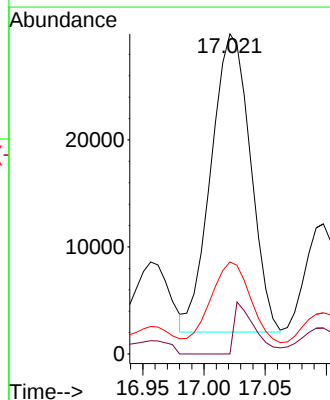
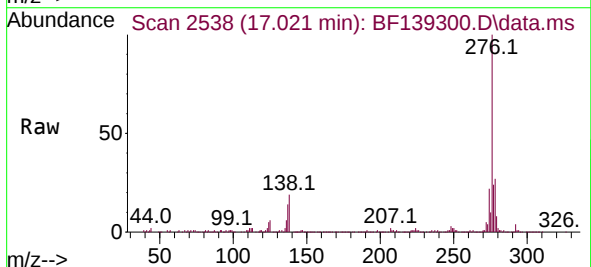
RT: 17.021 min Scan# 2538

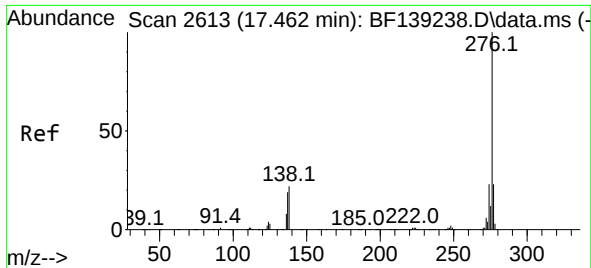
Delta R.T. -0.012 min

Lab File: BF139300.D

Acq: 10 Sep 2024 15:29

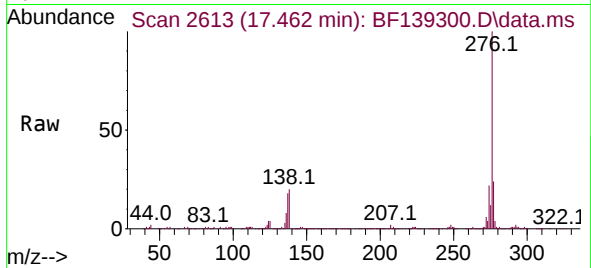
Tgt Ion:278 Resp: 62459  
 Ion Ratio Lower Upper  
 278 100  
 139 0.0 12.6 19.0#  
 279 28.8 18.6 28.0#





#92  
 Benzo(g,h,i)perylene  
 Concen: 27.984 ng  
 RT: 17.462 min Scan# 20  
 Delta R.T. -0.000 min  
 Lab File: BF139300.D  
 Acq: 10 Sep 2024 15:29

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-3B



Tgt Ion: 276 Resp: 251040  
 Ion Ratio Lower Upper  
 276 100  
 277 23.8 18.6 27.8  
 138 20.3 17.4 26.0

Manual Integrations  
 APPROVED

Reviewed By : Jagrut Upadhyay 09/11/2024  
 Supervised By : mohammad ahmed 09/12/2024

