

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF080923\  
 Data File : BF134695.D  
 Acq On : 09 Aug 2023 17:56  
 Operator : CG\JU  
 Sample : 03943-01  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 B-PP21A

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 08/10/2023  
 Supervised By :mohammad ahmed 08/10/2023

Quant Time: Aug 10 01:41:39 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF080123.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Aug 04 09:29:15 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.798  | 152  | 201158   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.080  | 136  | 765634   | 20.000 | ng    | # 0.00   |
| 39) Acenaphthene-d10        | 9.833  | 164  | 367862   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.321 | 188  | 558542   | 20.000 | ng    | # 0.00   |
| 76) Chrysene-d12            | 13.980 | 240  | 401327   | 20.000 | ng    | # 0.00   |
| 86) Perylene-d12            | 15.451 | 264  | 334650   | 20.000 | ng    | # 0.01   |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.434  | 112  | 998530   | 75.456 | ng    | 0.00     |
| 7) Phenol-d6                | 6.439  | 99   | 1263189  | 74.674 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.363  | 82   | 769304   | 62.792 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.627 | 330  | 300062   | 80.016 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.157  | 172  | 1373665  | 62.088 | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.921 | 244  | 1196469  | 52.556 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 49) Acenaphthylene          | 9.692  | 152  | 140602   | 4.173  | ng    | 99       |
| 71) Phenanthrene            | 11.345 | 178  | 415701   | 14.012 | ng    | 99       |
| 72) Anthracene              | 11.398 | 178  | 122801   | 4.052  | ng    | 99       |
| 75) Fluoranthene            | 12.545 | 202  | 1191511  | 38.021 | ng    | 96       |
| 78) Pyrene                  | 12.774 | 202  | 1745405  | 50.260 | ng    | 96       |
| 81) Benzo(a)anthracene      | 13.968 | 228  | 1108239  | 38.619 | ng    | 95       |
| 83) Chrysene                | 14.004 | 228  | 1058648  | 37.865 | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene  | 16.945 | 276  | 337367   | 17.141 | ng    | # 94     |
| 88) Benzo(b)fluoranthene    | 15.027 | 252  | 1025207m | 50.231 | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.051 | 252  | 204468m  | 10.057 | ng    |          |
| 90) Benzo(a)pyrene          | 15.392 | 252  | 708592   | 37.236 | ng    | # 94     |
| 91) Dibenzo(a,h)anthracene  | 16.956 | 278  | 90786    | 5.708  | ng    | # 93     |
| 92) Benzo(g,h,i)perylene    | 17.398 | 276  | 375887   | 23.167 | ng    | # 93     |
| -----                       |        |      |          |        |       |          |

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

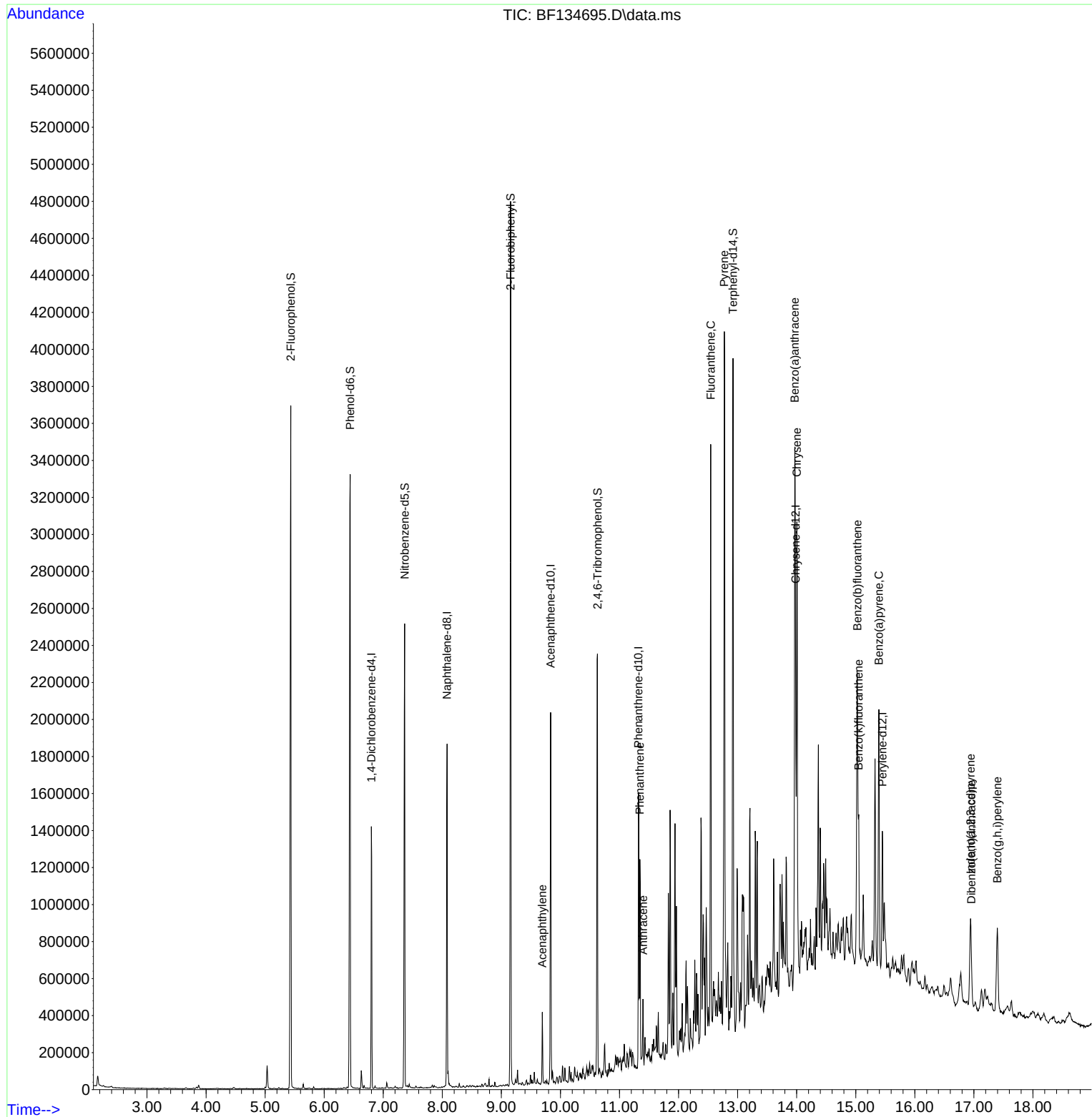
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF080923\  
Data File : BF134695.D  
Acq On : 09 Aug 2023 17:56  
Operator : CG\JU  
Sample : 03943-01  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

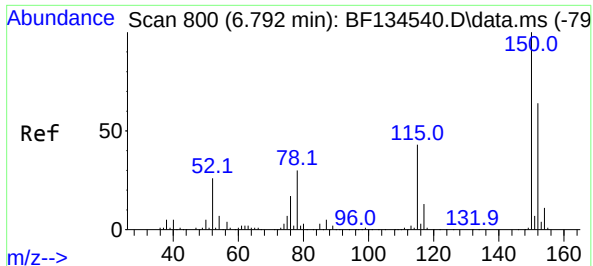
Instrument :  
BNA\_F  
ClientSampleId :  
B-PP21A

Manual Integrations  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Aug 04 09:29:15 2023  
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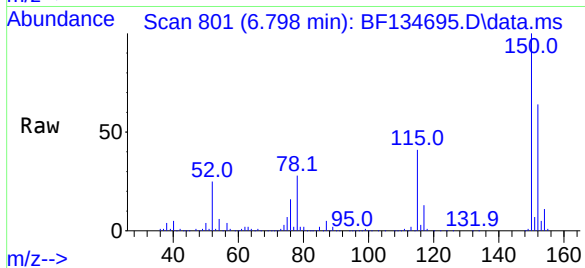
#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.798 min Scan# 801  
Delta R.T. 0.000 min  
Lab File: BF134695.D  
Acq: 09 Aug 2023 17:56

Instrument :

BNA\_F

ClientSampleId :

B-PP21A

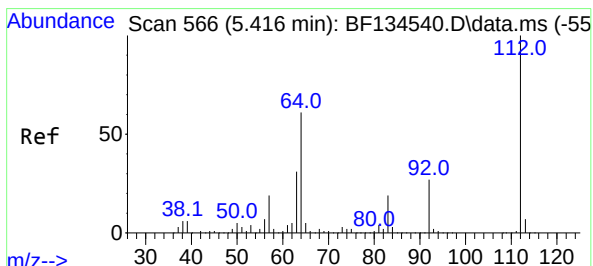
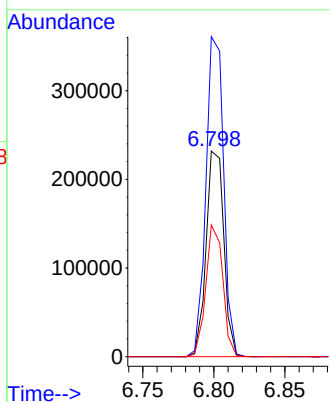
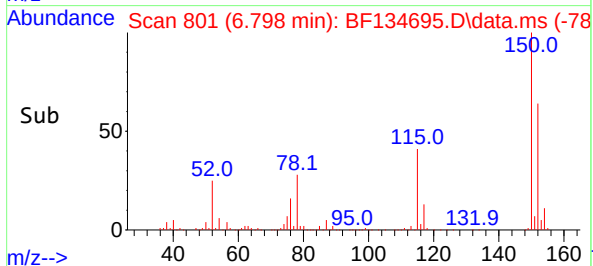


Tgt Ion:152 Resp: 201158  
Ion Ratio Lower Upper  
152 100  
150 155.7 128.3 192.5  
115 64.0 52.4 78.6

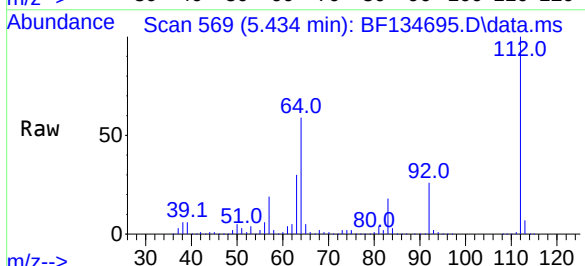
Manual Integrations

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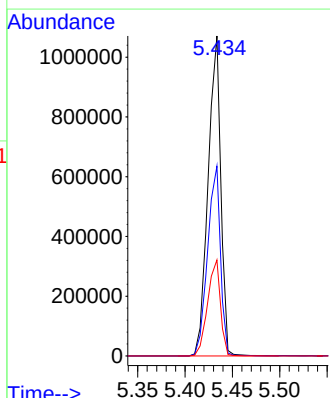
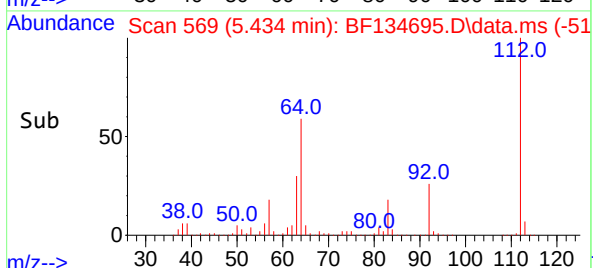
Reviewed By :Yogesh Patel 08/10/2023  
Supervised By :mohammad ahmed 08/10/2023

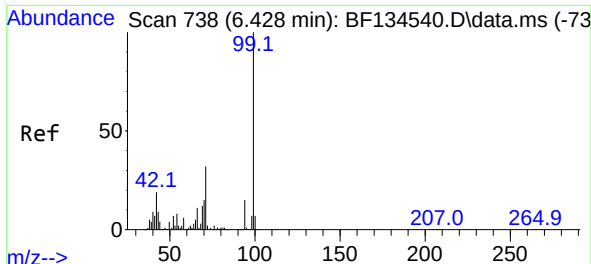


#5  
2-Fluorophenol  
Concen: 75.456 ng  
RT: 5.434 min Scan# 569  
Delta R.T. 0.006 min  
Lab File: BF134695.D  
Acq: 09 Aug 2023 17:56



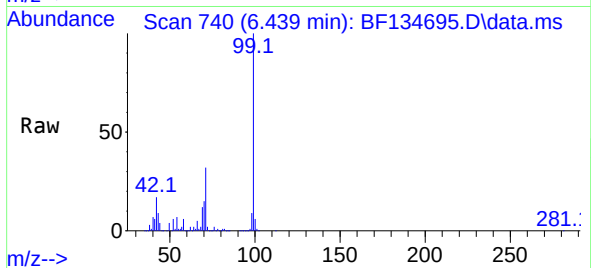
Tgt Ion:112 Resp: 998530  
Ion Ratio Lower Upper  
112 100  
64 59.3 44.9 67.3  
63 30.0 25.4 38.0





#7  
Phenol-d6  
Concen: 74.674 ng  
RT: 6.439 min Scan# 74  
Delta R.T. -0.000 min  
Lab File: BF134695.D  
Acq: 09 Aug 2023 17:56

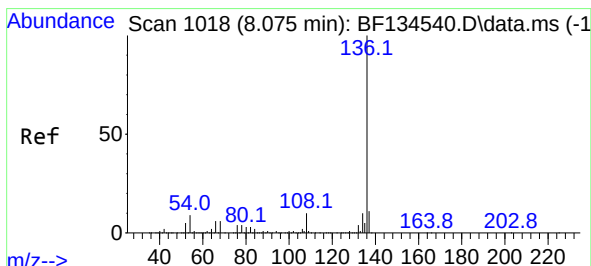
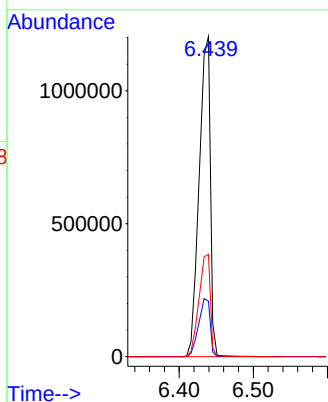
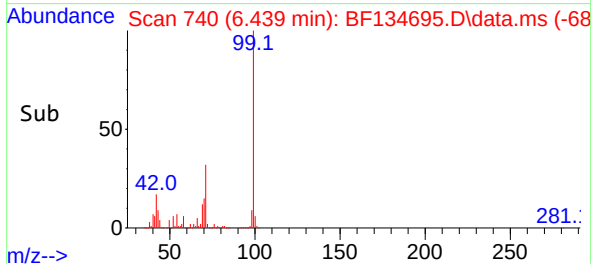
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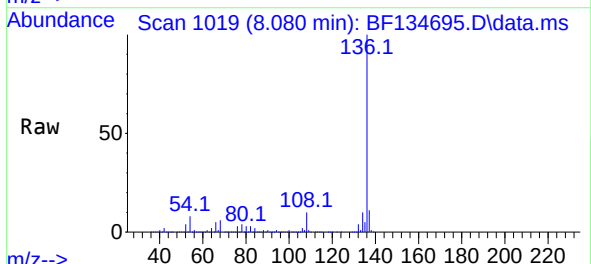
Tgt Ion: 99 Resp: 1263189  
Ion Ratio Lower Upper  
99 100  
42 17.3 18.7 28.1#  
71 32.0 36.4 54.6#

Manual Integrations  
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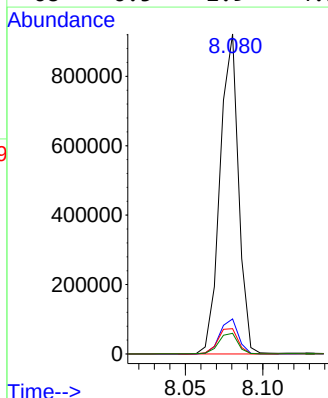
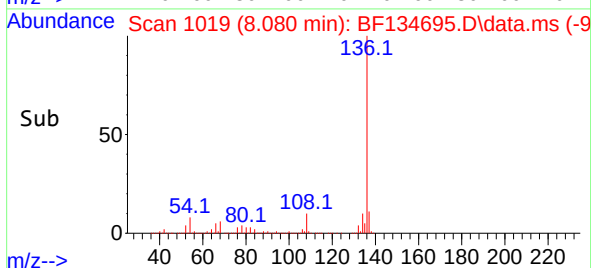
Reviewed By :Yogesh Patel 08/10/2023  
Supervised By :mohammad ahmed 08/10/2023

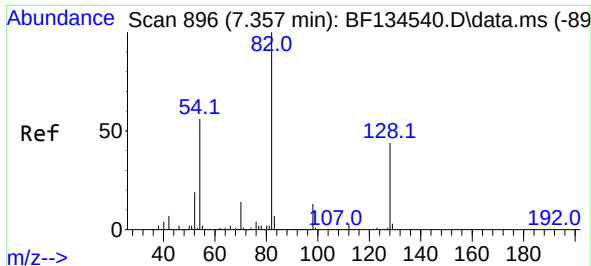


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.080 min Scan# 1019  
Delta R.T. -0.000 min  
Lab File: BF134695.D  
Acq: 09 Aug 2023 17:56



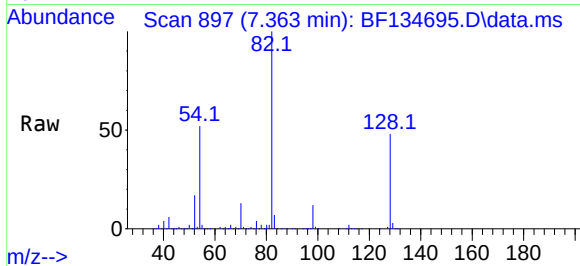
Tgt Ion:136 Resp: 765634  
Ion Ratio Lower Upper  
136 100  
137 11.0 8.4 12.6  
54 7.9 5.2 7.8#  
68 6.5 2.9 4.3#





#23  
Nitrobenzene-d5  
Concen: 62.792 ng  
RT: 7.363 min Scan# 896  
Delta R.T. -0.006 min  
Lab File: BF134695.D  
Acq: 09 Aug 2023 17:56

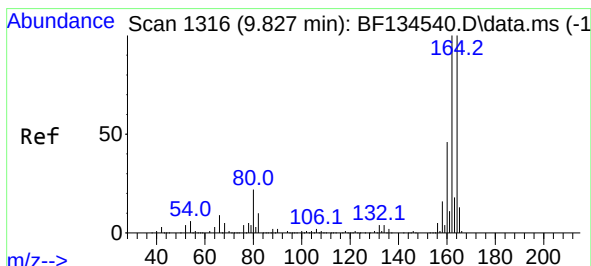
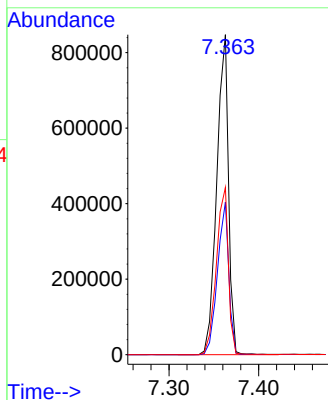
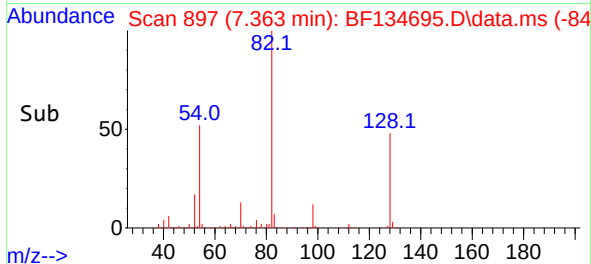
Instrument :  
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B-PP21A



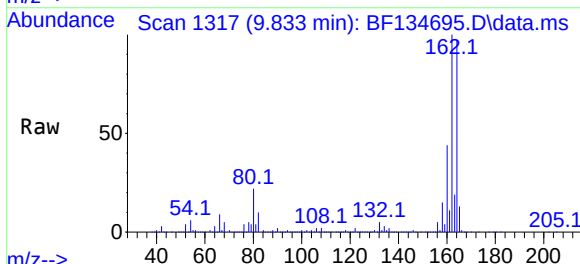
Tgt Ion: 82 Resp: 769304  
Ion Ratio Lower Upper  
82 100  
128 47.7 34.3 51.5  
54 52.3 43.8 65.6

Manual Integrations  
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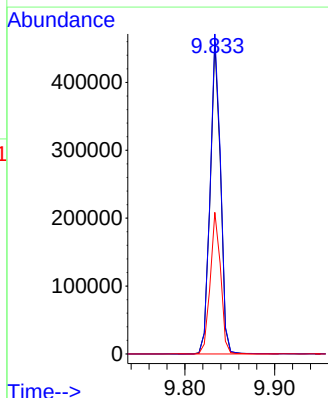
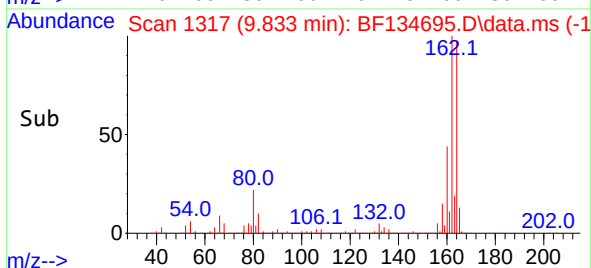
Reviewed By :Yogesh Patel 08/10/2023  
Supervised By :mohammad ahmed 08/10/2023

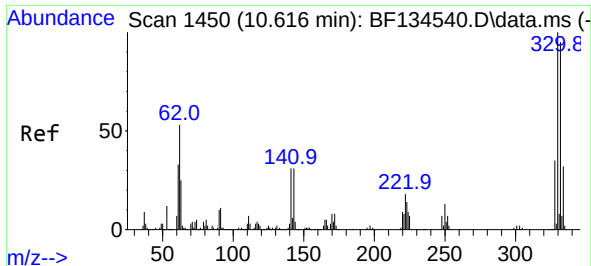


#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.833 min Scan# 1317  
Delta R.T. -0.000 min  
Lab File: BF134695.D  
Acq: 09 Aug 2023 17:56



Tgt Ion:164 Resp: 367862  
Ion Ratio Lower Upper  
164 100  
162 102.6 82.6 123.8  
160 45.4 37.2 55.8





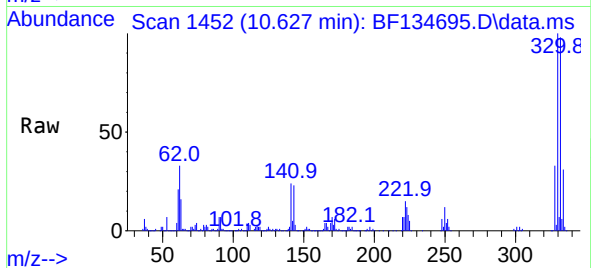
#42  
2,4,6-Tribromophenol  
Concen: 80.016 ng  
RT: 10.627 min Scan# 1450  
Delta R.T. -0.000 min  
Lab File: BF134695.D  
Acq: 09 Aug 2023 17:56

Instrument :

BNA\_F

ClientSampleId :

B-PP21A



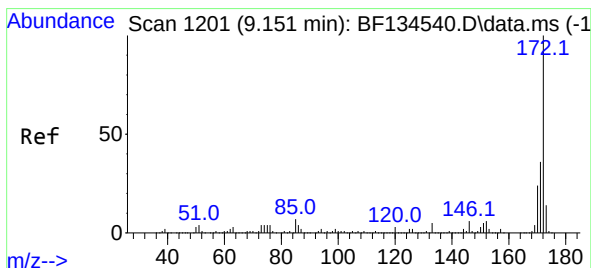
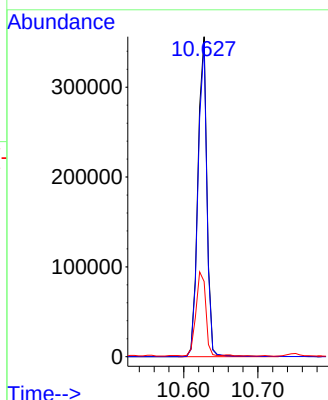
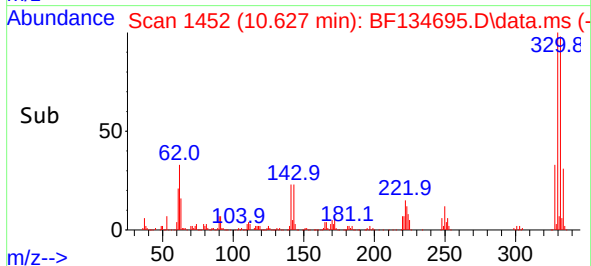
Tgt Ion:330 Resp: 300062  
Ion Ratio Lower Upper  
330 100  
332 96.2 78.8 118.2  
141 28.3 25.4 38.2

Manual Integrations

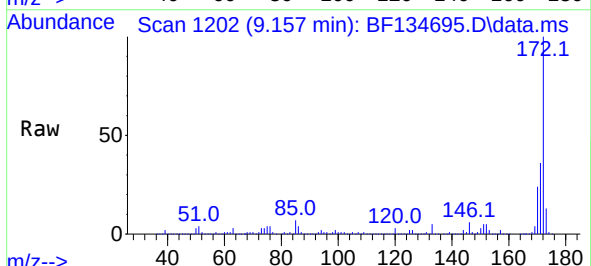
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Reviewed By :Yogesh Patel 08/10/2023

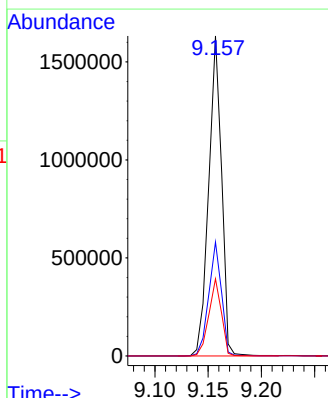
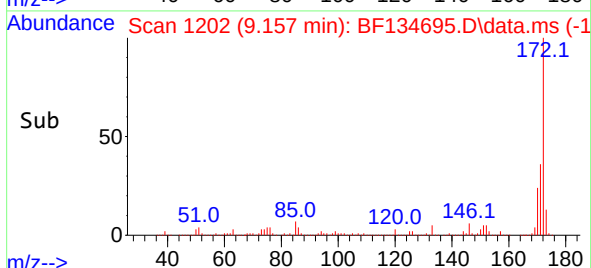
Supervised By :mohammad ahmed 08/10/2023

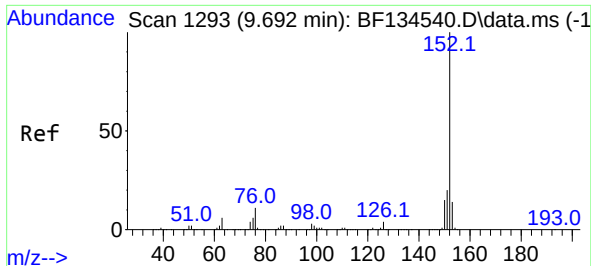


#45  
2-Fluorobiphenyl  
Concen: 62.088 ng  
RT: 9.157 min Scan# 1202  
Delta R.T. -0.006 min  
Lab File: BF134695.D  
Acq: 09 Aug 2023 17:56



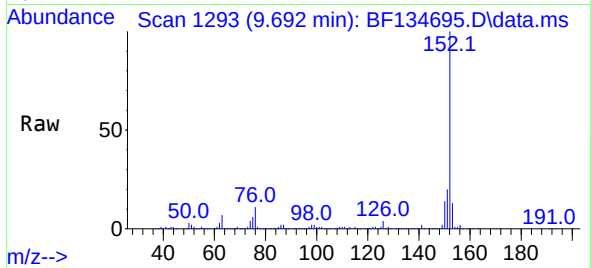
Tgt Ion:172 Resp: 1373665  
Ion Ratio Lower Upper  
172 100  
171 35.6 28.8 43.2  
170 24.1 18.7 28.1





#49  
Acenaphthylene  
Concen: 4.173 ng  
RT: 9.692 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF134695.D  
Acq: 09 Aug 2023 17:56

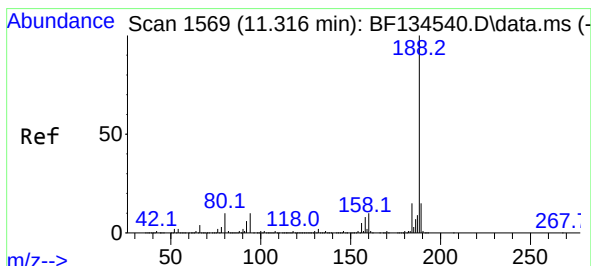
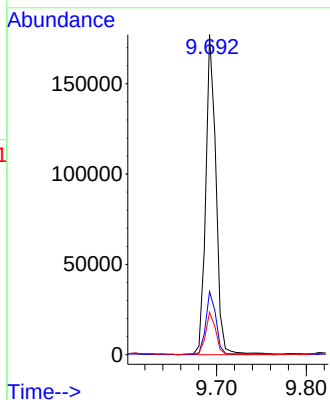
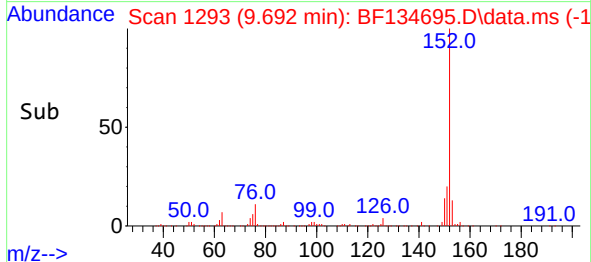
Instrument :  
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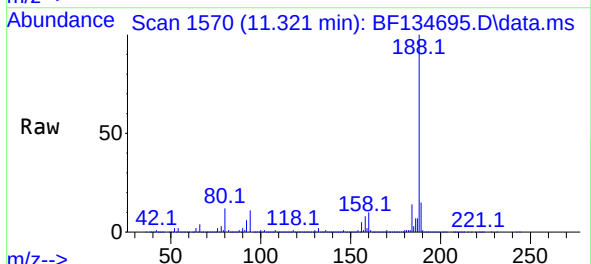
Tgt Ion:152 Resp: 140602  
Ion Ratio Lower Upper  
152 100  
151 19.7 16.4 24.6  
153 13.2 10.9 16.3

Manual Integrations  
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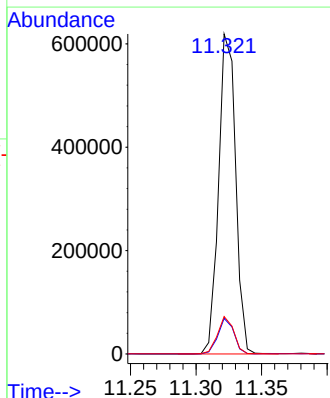
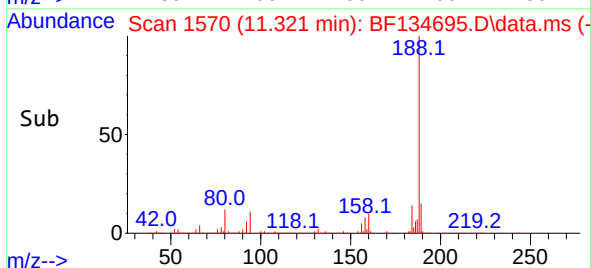
Reviewed By :Yogesh Patel 08/10/2023  
Supervised By :mohammad ahmed 08/10/2023

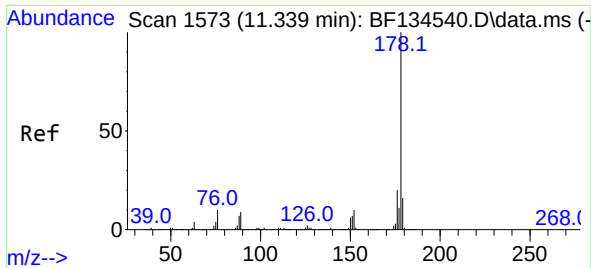


#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.321 min Scan# 1570  
Delta R.T. -0.000 min  
Lab File: BF134695.D  
Acq: 09 Aug 2023 17:56



Tgt Ion:188 Resp: 558542  
Ion Ratio Lower Upper  
188 100  
94 11.1 5.1 7.7#  
80 11.7 6.6 9.8#





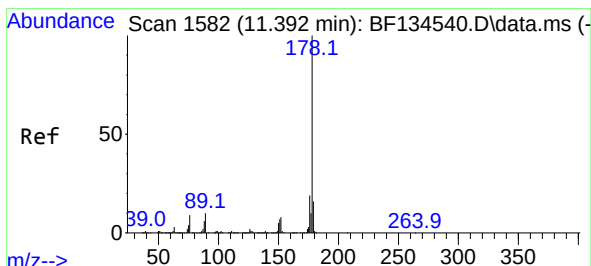
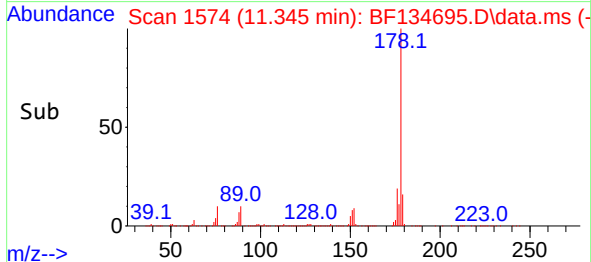
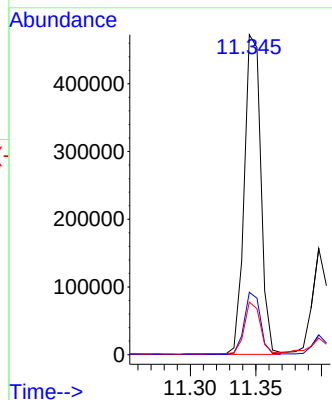
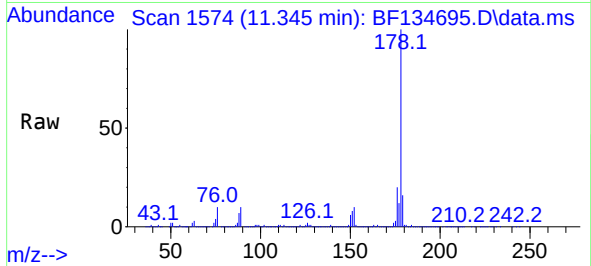
#71  
Phenanthrene  
Concen: 14.012 ng  
RT: 11.345 min Scan# 1573  
Delta R.T. -0.006 min  
Lab File: BF134695.D  
Acq: 09 Aug 2023 17:56

Instrument :  
BNA\_F  
ClientSampleId :  
B-PP21A

Tgt Ion:178 Resp: 41570  
Ion Ratio Lower Upper  
178 100  
176 19.5 15.8 23.6  
179 16.5 12.7 19.1

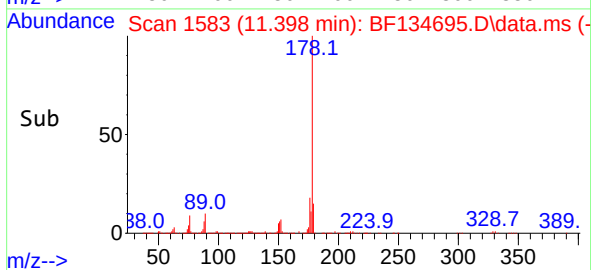
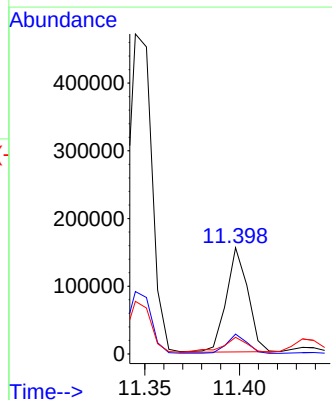
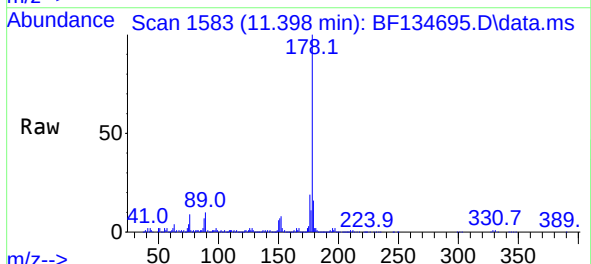
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Supervised By :mohammad ahmed 08/10/2023

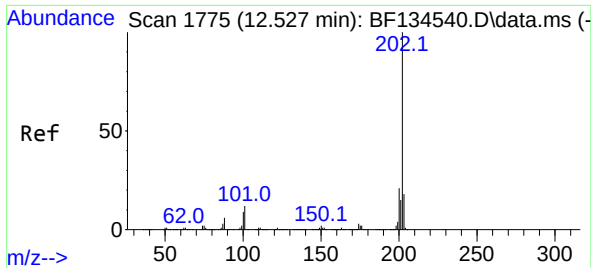


#72  
Anthracene  
Concen: 4.052 ng  
RT: 11.398 min Scan# 1583  
Delta R.T. -0.006 min  
Lab File: BF134695.D  
Acq: 09 Aug 2023 17:56

Tgt Ion:178 Resp: 122801  
Ion Ratio Lower Upper  
178 100  
176 18.6 14.6 21.8  
179 15.7 12.3 18.5







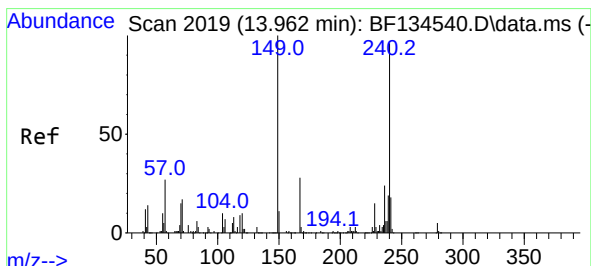
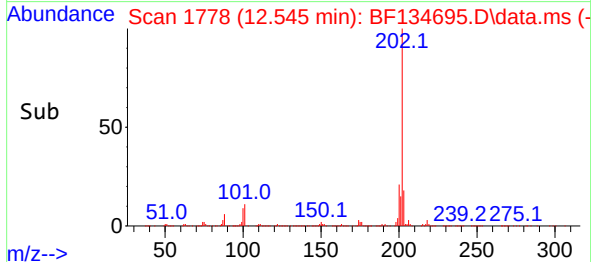
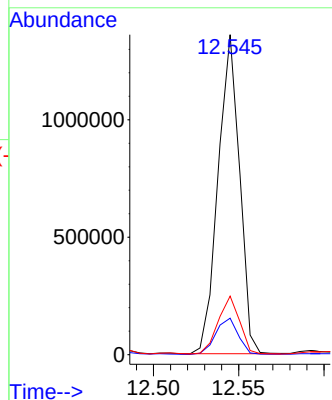
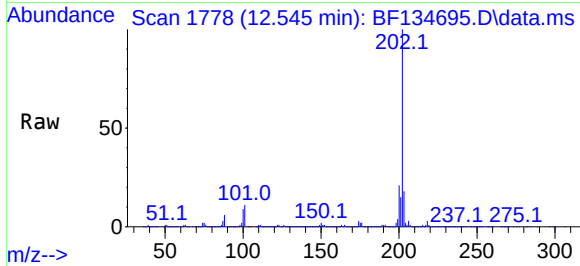
#75  
Fluoranthene  
Concen: 38.021 ng  
RT: 12.545 min Scan# 119151  
Delta R.T. 0.006 min  
Lab File: BF134695.D  
Acq: 09 Aug 2023 17:56

Instrument :  
BNA\_F  
ClientSampleId :  
B-PP21A

Tgt Ion:202 Resp: 119151  
Ion Ratio Lower Upper  
202 100  
101 11.4 0.0 28.5  
203 18.3 0.0 37.5

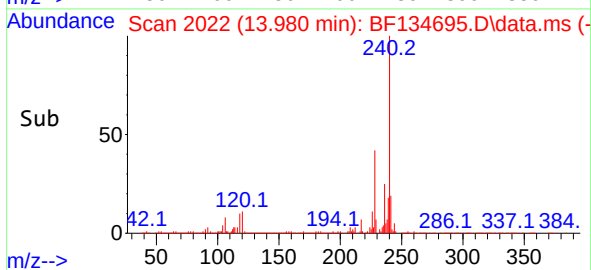
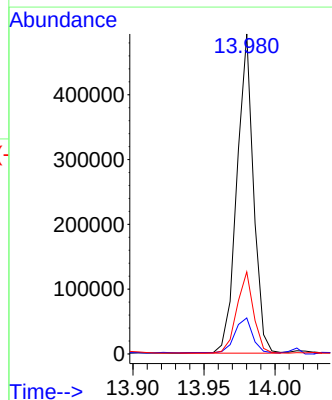
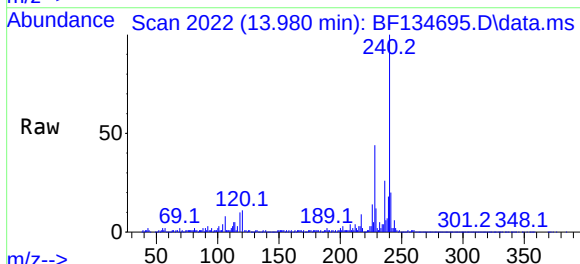
Manual Integrations  
APPROVED

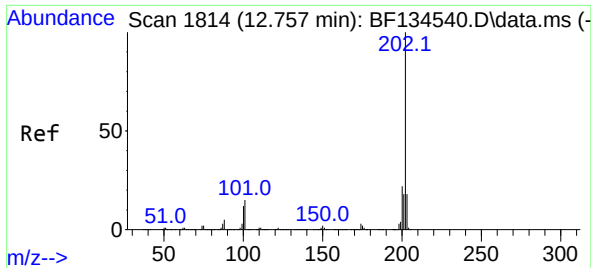
Reviewed By :Yogesh Patel 08/10/2023  
Supervised By :mohammad ahmed 08/10/2023



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.980 min Scan# 2022  
Delta R.T. 0.006 min  
Lab File: BF134695.D  
Acq: 09 Aug 2023 17:56

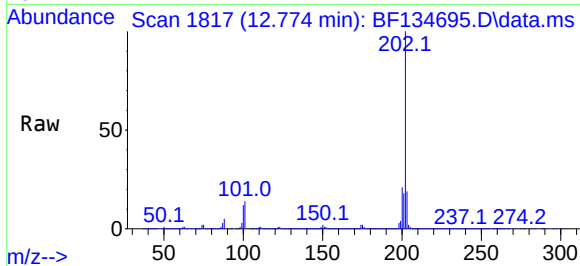
Tgt Ion:240 Resp: 401327  
Ion Ratio Lower Upper  
240 100  
120 11.2 6.6 10.0#  
236 25.7 20.2 30.2





#78  
Pyrene  
Concen: 50.260 ng  
RT: 12.774 min Scan# 1817  
Delta R.T. 0.006 min  
Lab File: BF134695.D  
Acq: 09 Aug 2023 17:56

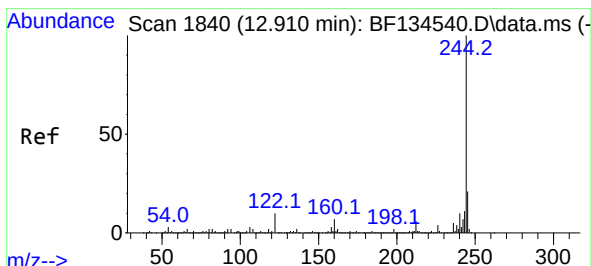
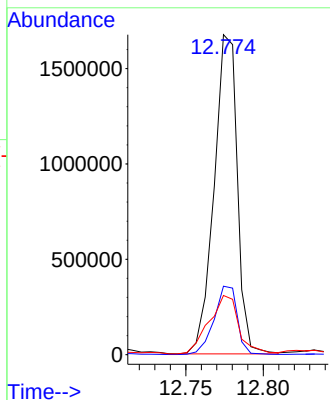
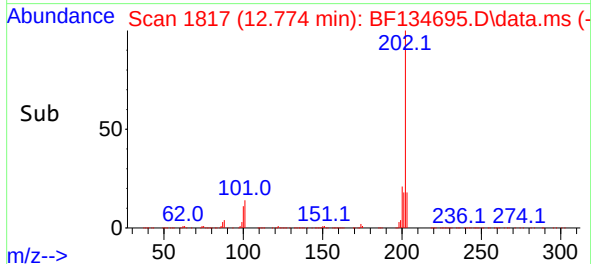
Instrument :  
BNA\_F  
ClientSampleId :  
B-PP21A



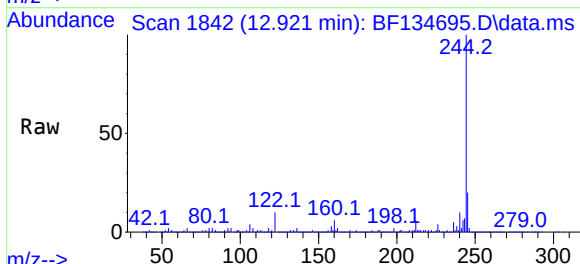
Tgt Ion:202 Resp: 1745409  
Ion Ratio Lower Upper  
202 100  
200 21.4 15.8 23.8  
203 18.5 13.5 20.3

Manual Integrations  
APPROVED

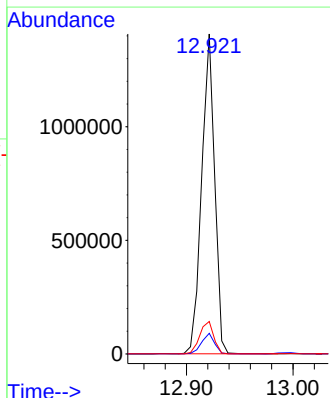
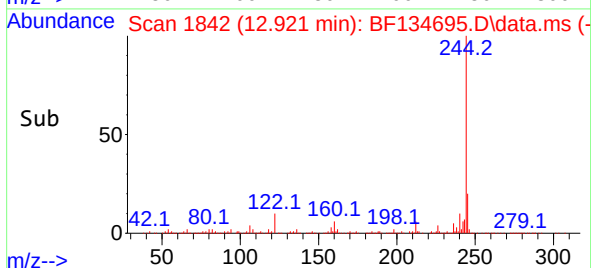
Reviewed By :Yogesh Patel 08/10/2023  
Supervised By :mohammad ahmed 08/10/2023

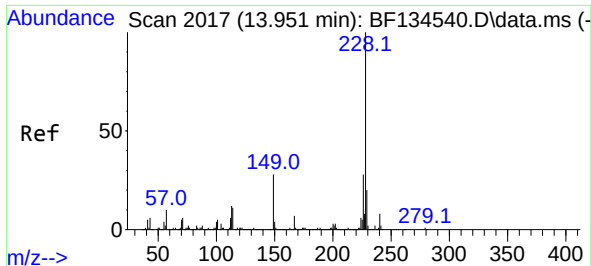


#79  
Terphenyl-d14  
Concen: 52.556 ng  
RT: 12.921 min Scan# 1842  
Delta R.T. -0.000 min  
Lab File: BF134695.D  
Acq: 09 Aug 2023 17:56



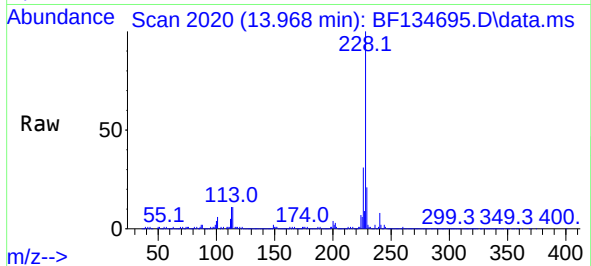
Tgt Ion:244 Resp: 1196469  
Ion Ratio Lower Upper  
244 100  
212 6.5 5.6 8.4  
122 10.2 8.0 12.0





#81  
Benzo(a)anthracene  
Concen: 38.619 ng  
RT: 13.968 min Scan# 2017  
Delta R.T. 0.006 min  
Lab File: BF134695.D  
Acq: 09 Aug 2023 17:56

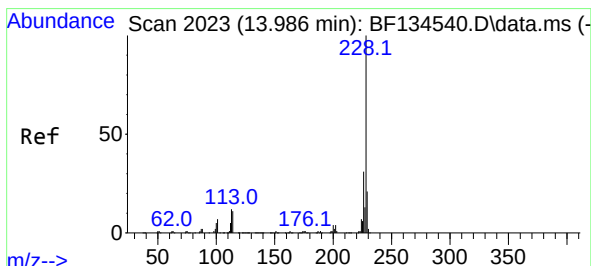
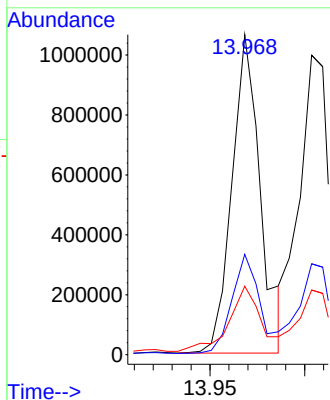
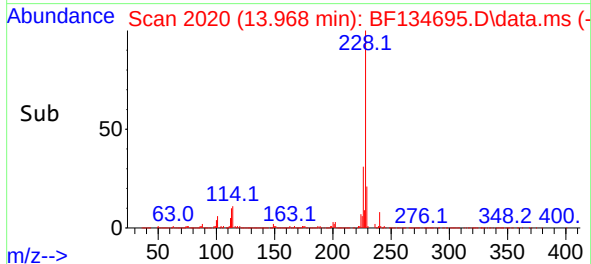
Instrument :  
BNA\_F  
ClientSampleId :  
B-PP21A



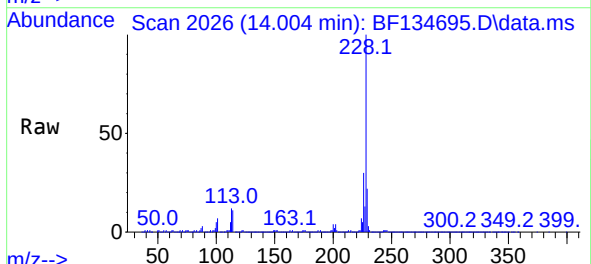
Tgt Ion:228 Resp: 1108239  
Ion Ratio Lower Upper  
228 100  
226 31.4 22.3 33.5  
229 21.4 15.8 23.6

Manual Integrations  
APPROVED

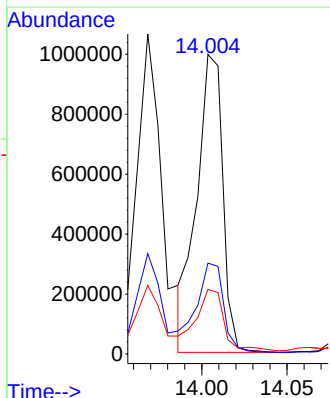
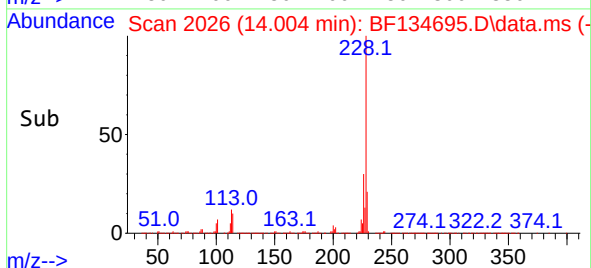
Reviewed By :Yogesh Patel 08/10/2023  
Supervised By :mohammad ahmed 08/10/2023

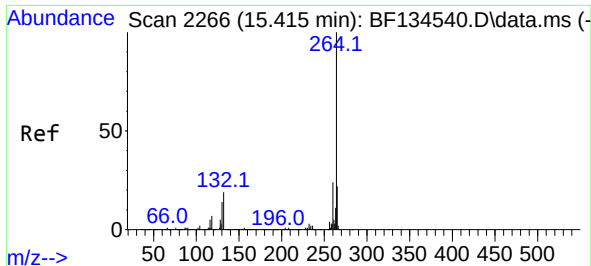


#83  
Chrysene  
Concen: 37.865 ng  
RT: 14.004 min Scan# 2026  
Delta R.T. 0.006 min  
Lab File: BF134695.D  
Acq: 09 Aug 2023 17:56



Tgt Ion:228 Resp: 1058648  
Ion Ratio Lower Upper  
228 100  
226 30.4 24.5 36.7  
229 21.6 15.8 23.8





#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.451 min Scan# 21  
Delta R.T. 0.012 min  
Lab File: BF134695.D  
Acq: 09 Aug 2023 17:56

Instrument :

BNA\_F

ClientSampleId :

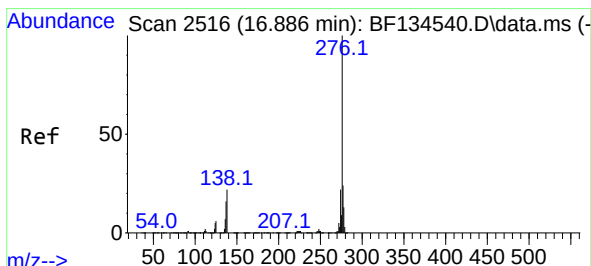
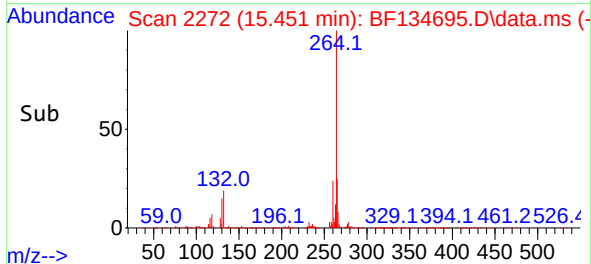
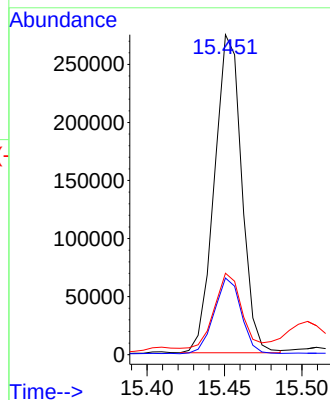
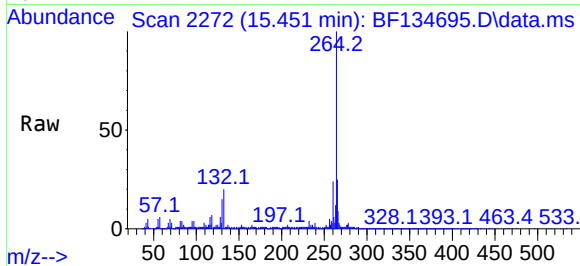
B-PP21A

Tgt Ion:264 Resp: 334650  
Ion Ratio Lower Upper  
264 100  
260 24.0 18.4 27.6  
265 25.5 15.8 23.8

Manual Integrations

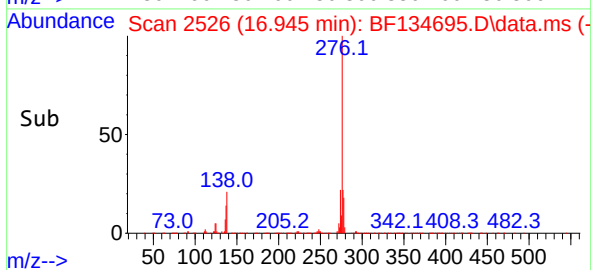
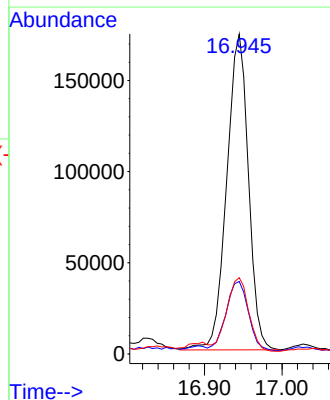
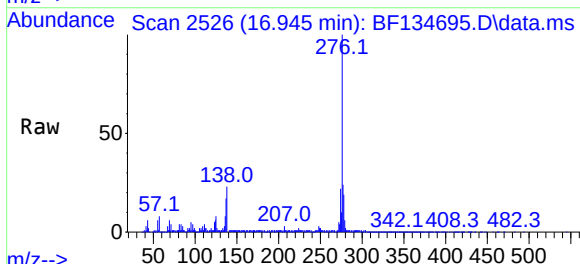
APPROVED

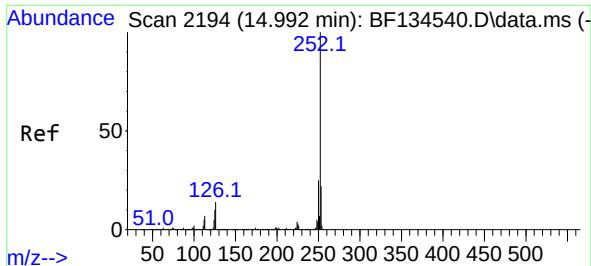
Reviewed By :Yogesh Patel 08/10/2023  
Supervised By :mohammad ahmed 08/10/2023



#87  
Indeno(1,2,3-cd)pyrene  
Concen: 17.141 ng  
RT: 16.945 min Scan# 2526  
Delta R.T. 0.018 min  
Lab File: BF134695.D  
Acq: 09 Aug 2023 17:56

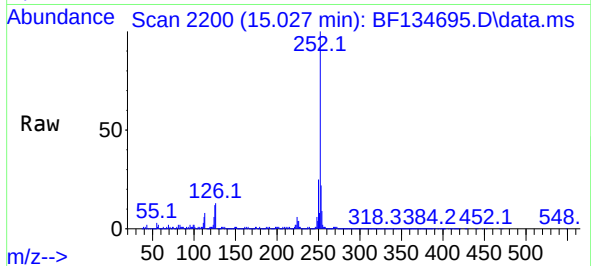
Tgt Ion:276 Resp: 337367  
Ion Ratio Lower Upper  
276 100  
138 22.6 14.2 21.4#  
277 23.9 19.9 29.9





#88  
Benzo(b)fluoranthene  
Concen: 50.231 ng m  
RT: 15.027 min Scan# 2194  
Delta R.T. 0.018 min  
Lab File: BF134695.D  
Acq: 09 Aug 2023 17:56

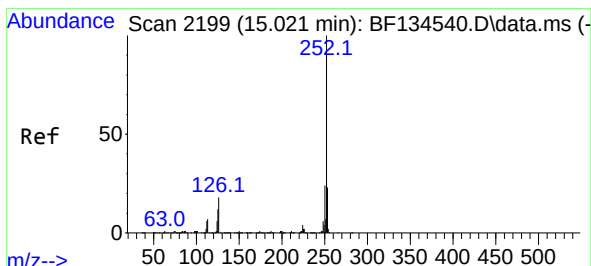
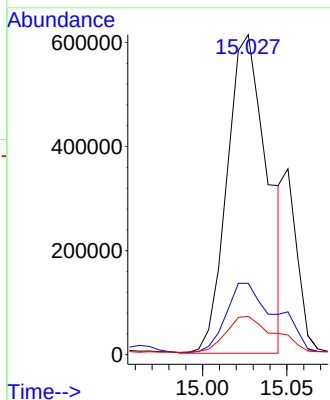
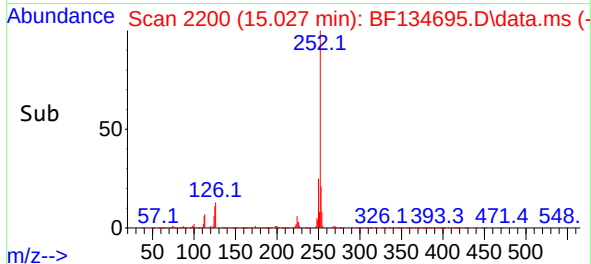
Instrument :  
BNA\_F  
ClientSampleId :  
B-PP21A



Tgt Ion:252 Resp: 1025207  
Ion Ratio Lower Upper  
252 100  
253 22.3 17.3 25.9  
125 12.0 6.0 9.0

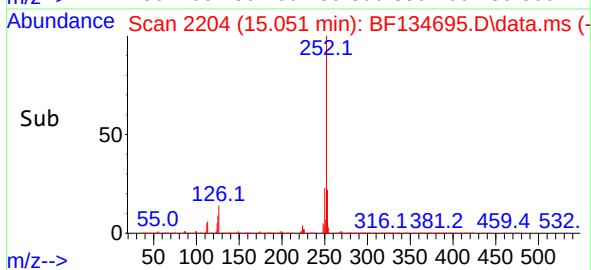
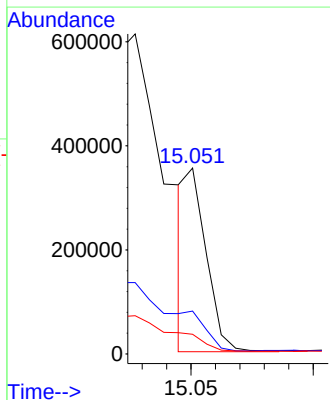
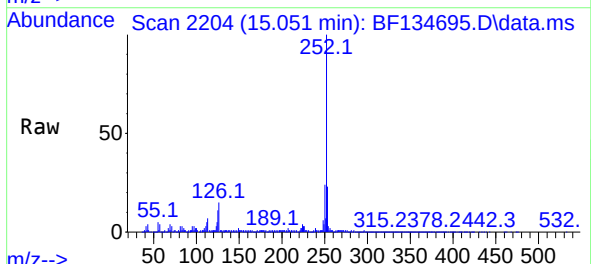
Manual Integrations  
APPROVED

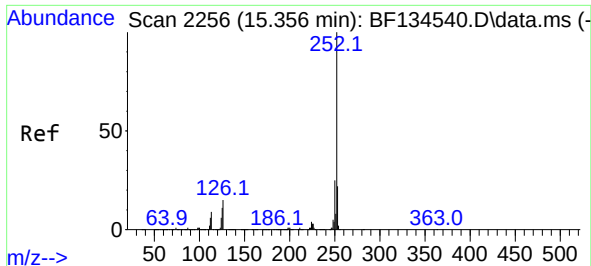
Reviewed By :Yogesh Patel 08/10/2023  
Supervised By :mohammad ahmed 08/10/2023



#89  
Benzo(k)fluoranthene  
Concen: 10.057 ng m  
RT: 15.051 min Scan# 2204  
Delta R.T. 0.012 min  
Lab File: BF134695.D  
Acq: 09 Aug 2023 17:56

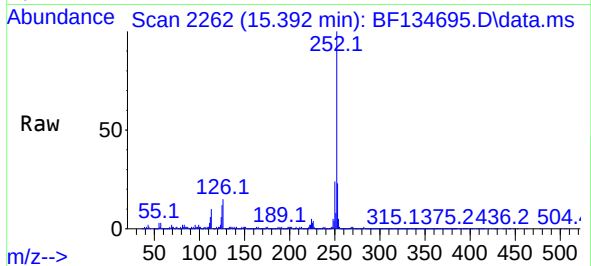
Tgt Ion:252 Resp: 204468  
Ion Ratio Lower Upper  
252 100  
253 23.1 17.9 26.9  
125 10.6 6.3 9.5





#90  
Benzo(a)pyrene  
Concen: 37.236 ng  
RT: 15.392 min Scan# 21  
Delta R.T. 0.012 min  
Lab File: BF134695.D  
Acq: 09 Aug 2023 17:56

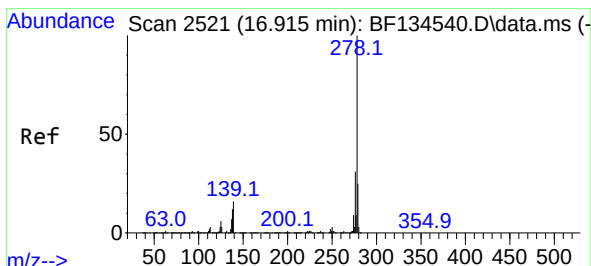
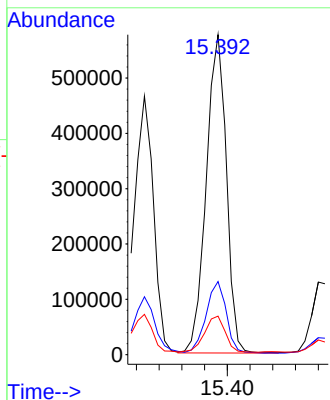
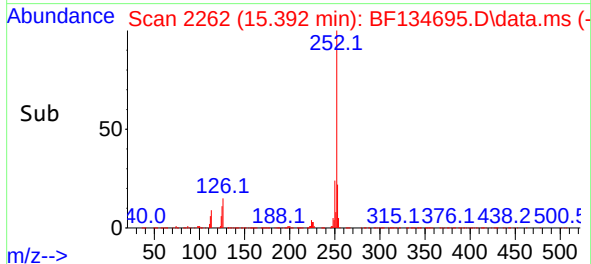
Instrument :  
BNA\_F  
ClientSampleId :  
B-PP21A



Tgt Ion:252 Resp: 708592  
Ion Ratio Lower Upper  
252 100  
253 22.9 17.0 25.4  
125 12.0 6.2 9.4

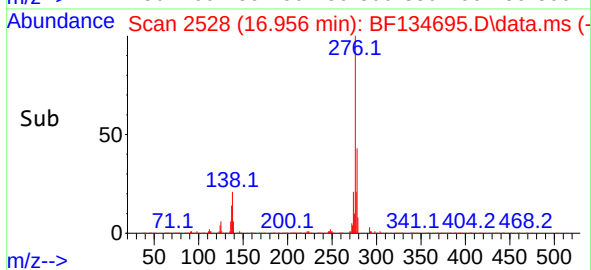
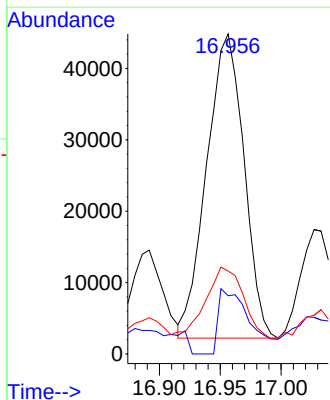
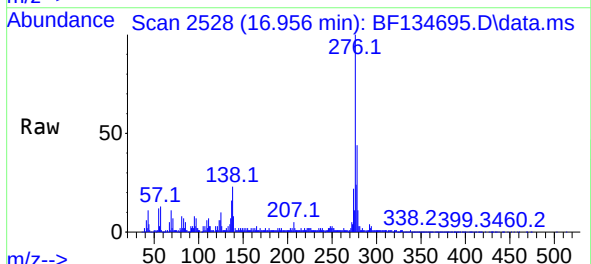
Manual Integrations  
APPROVED

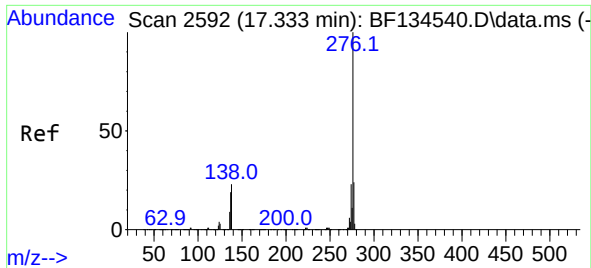
Reviewed By :Yogesh Patel 08/10/2023  
Supervised By :mohammad ahmed 08/10/2023



#91  
Dibenzo(a,h)anthracene  
Concen: 5.708 ng  
RT: 16.956 min Scan# 2528  
Delta R.T. 0.006 min  
Lab File: BF134695.D  
Acq: 09 Aug 2023 17:56

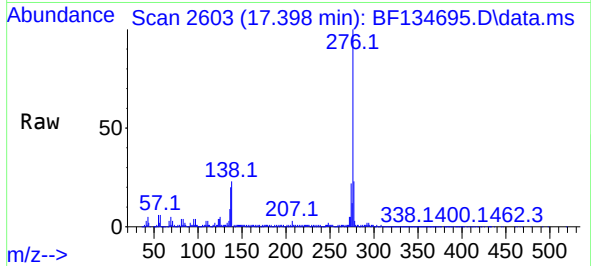
Tgt Ion:278 Resp: 90786  
Ion Ratio Lower Upper  
278 100  
139 18.2 10.0 15.0#  
279 25.9 19.7 29.5





#92  
 Benzo(g,h,i)perylene  
 Concen: 23.167 ng  
 RT: 17.398 min Scan# 20  
 Delta R.T. 0.023 min  
 Lab File: BF134695.D  
 Acq: 09 Aug 2023 17:56

Instrument :  
 BNA\_F  
 ClientSampleId :  
 B-PP21A



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 37588 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 23.5  | 19.0  | 28.6  |
| 138       | 22.6  | 12.2  | 18.2  |

Manual Integrations  
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Reviewed By :Yogesh Patel 08/10/2023  
 Supervised By :mohammad ahmed 08/10/2023

