

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP033122\  
 Data File : BP009638.D  
 Acq On : 31 Mar 2022 14:27  
 Operator : CG/JU  
 Sample : N2155-06RE  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 22L076-FRE

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 04/01/2022  
 Supervised By : Jagrut Upadhyay 04/01/2022

Quant Time: Mar 31 14:56:48 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP031722.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Mar 31 04:36:51 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.740  | 152  | 314247   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.534 | 136  | 1164510  | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10          | 14.392 | 164  | 738050   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.157 | 188  | 1547748  | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 21.280 | 240  | 1179457  | 20.000 | ng    | # 0.00   |
| 86) Perylene-d12              | 23.668 | 264  | 1371047  | 20.000 | ng    | 0.02     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.358  | 112  | 38164    | 2.120  | ng    | 0.01     |
| 7) Phenol-d6                  | 6.934  | 99   | 1163786  | 47.812 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 8.899  | 82   | 1343302  | 61.299 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 15.904 | 330  | 2880     | 0.236  | ng    | 0.01     |
| 45) 2-Fluorobiphenyl          | 13.010 | 172  | 3218313  | 60.450 | ng    | 0.00     |
| 79) Terphenyl-d14             | 19.739 | 244  | 4067495  | 61.899 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 31) Naphthalene               | 10.581 | 128  | 201513   | 3.359  | ng    | 99       |
| 37) 2-Methylnaphthalene       | 12.204 | 142  | 156468   | 3.718  | ng    | 100      |
| 38) 1-Methylnaphthalene       | 12.422 | 142  | 98243    | 2.396  | ng    | 99       |
| 52) Acenaphthene              | 14.457 | 154  | 100694   | 2.519  | ng    | 96       |
| 58) Fluorene                  | 15.445 | 166  | 141428   | 2.678  | ng    | # 98     |
| 71) Phenanthrene              | 17.204 | 178  | 1774726  | 21.421 | ng    | 100      |
| 72) Anthracene                | 17.292 | 178  | 430530   | 5.263  | ng    | 99       |
| 75) Fluoranthene              | 19.186 | 202  | 1469332  | 14.649 | ng    | 98       |
| 78) Pyrene                    | 19.539 | 202  | 1325308  | 17.052 | ng    | 99       |
| 81) Benzo(a)anthracene        | 21.263 | 228  | 688041   | 8.879  | ng    | 98       |
| 83) Chrysene                  | 21.316 | 228  | 622053   | 8.478  | ng    | 97       |
| 84) Bis(2-ethylhexyl)phtha... | 21.192 | 149  | 120878   | 2.625  | ng    | # 95     |
| 87) Indeno(1,2,3-cd)pyrene    | 26.151 | 276  | 456034   | 4.384  | ng    | # 93     |
| 88) Benzo(b)fluoranthene      | 22.945 | 252  | 794077m  | 9.702  | ng    |          |
| 89) Benzo(k)fluoranthene      | 22.980 | 252  | 247017m  | 3.082  | ng    |          |
| 90) Benzo(a)pyrene            | 23.562 | 252  | 568272   | 8.115  | ng    | 95       |
| 92) Benzo(g,h,i)perylene      | 26.921 | 276  | 470446   | 5.516  | ng    | 94       |
| -----                         |        |      |          |        |       |          |

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

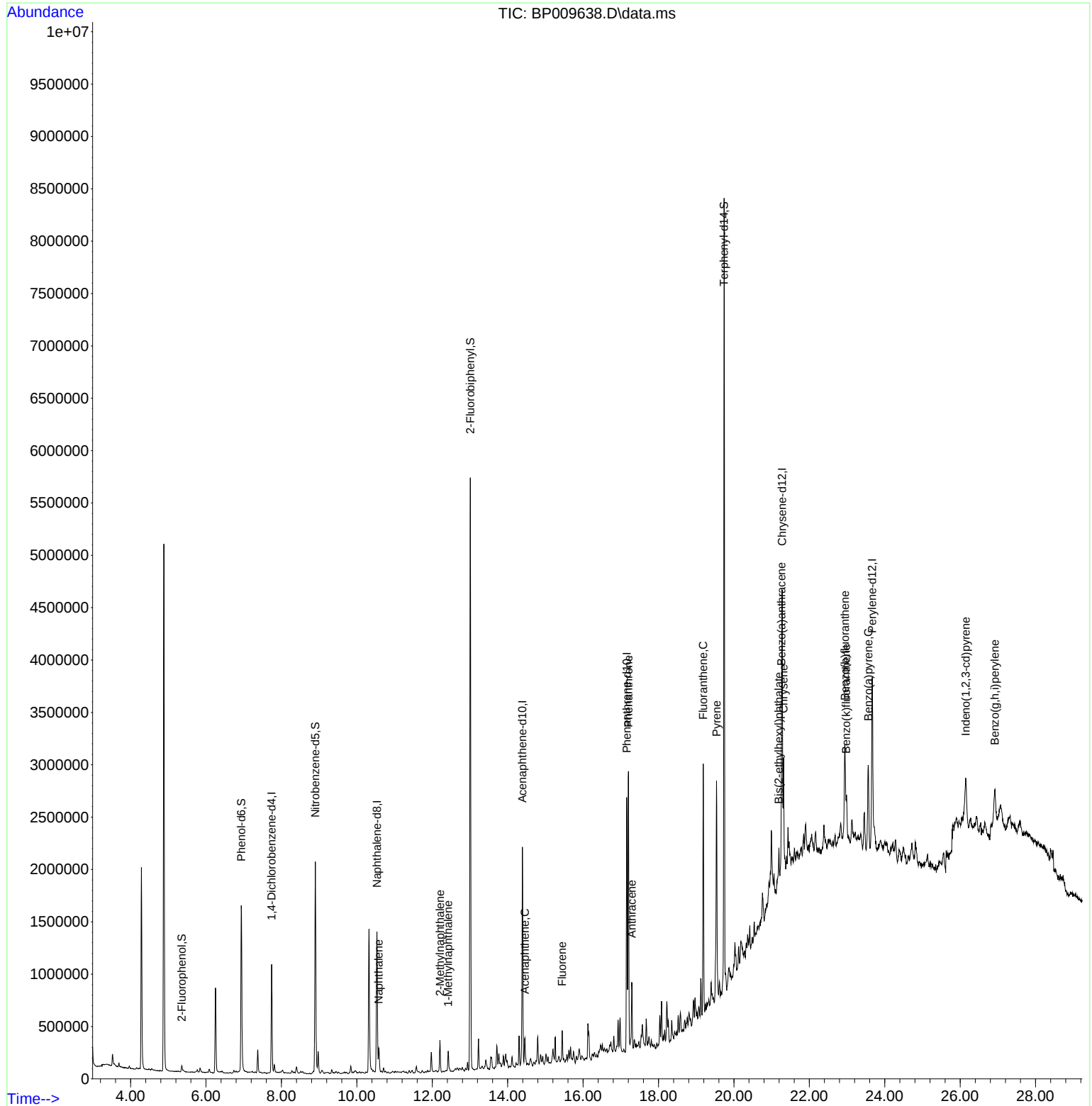
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Data File : BP009638.D  
Acq On : 31 Mar 2022 14:27  
Operator : CG/JU  
Sample : N2155-06RE  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

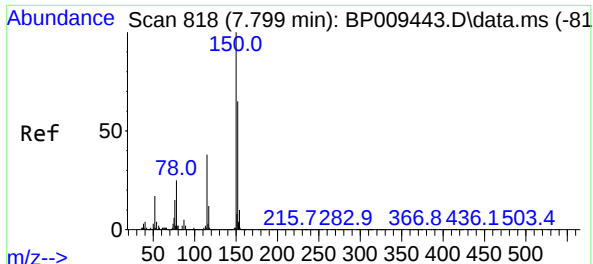
Instrument :  
BNA\_P  
ClientSampleId :  
22L076-FRE

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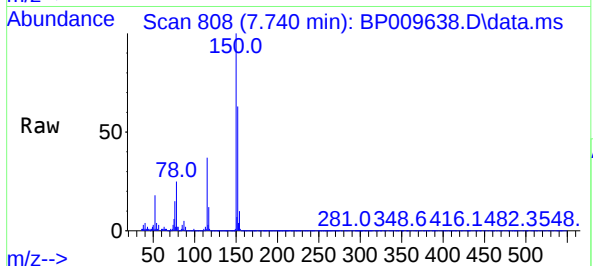
Quant Time: Mar 31 14:56:48 2022  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP031722.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Mar 31 04:36:51 2022  
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.740 min Scan# 80  
Delta R.T. -0.000 min  
Lab File: BP009638.D  
Acq: 31 Mar 2022 14:27

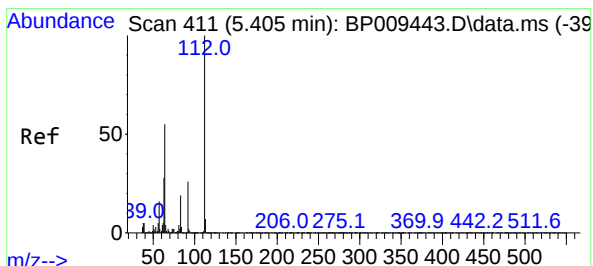
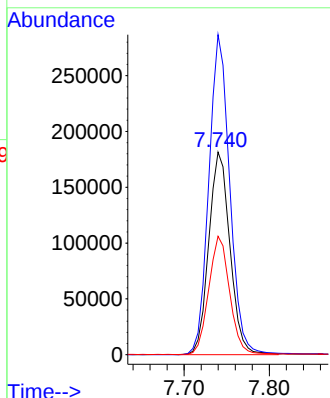
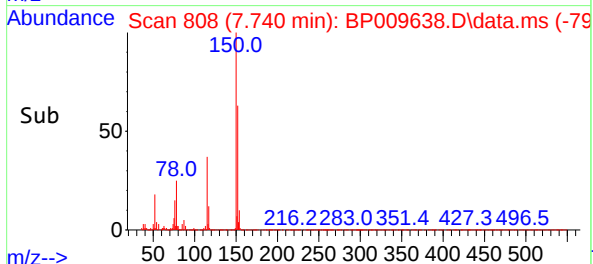
Instrument :  
BNA\_P  
ClientSampleId :  
22L076-FRE



Tgt Ion:152 Resp: 31424  
Ion Ratio Lower Upper  
152 100  
150 157.9 124.5 186.7  
115 58.4 48.2 72.4

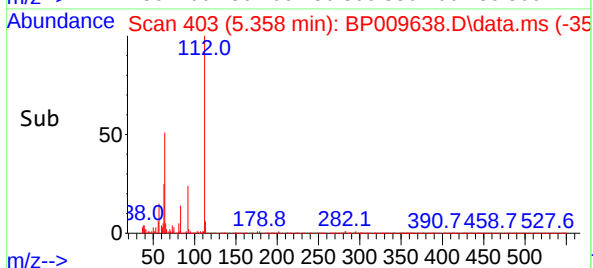
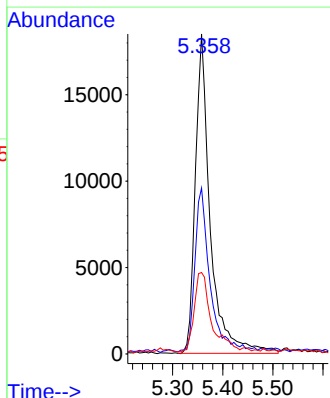
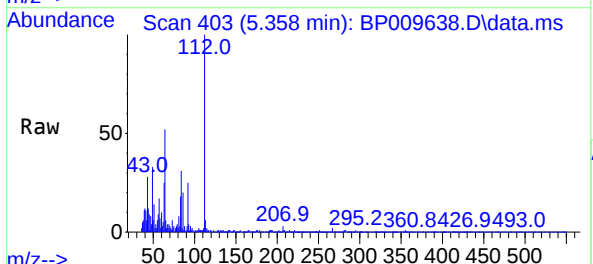
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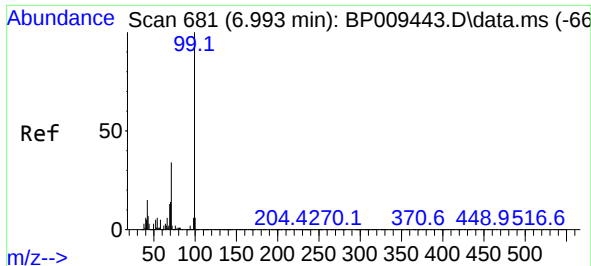
Reviewed By :Christian Giraldo 04/01/2022  
Supervised By :Jagrut Upadhyay 04/01/2022



#5  
2-Fluorophenol  
Concen: 2.120 ng  
RT: 5.358 min Scan# 403  
Delta R.T. 0.012 min  
Lab File: BP009638.D  
Acq: 31 Mar 2022 14:27

Tgt Ion:112 Resp: 38164  
Ion Ratio Lower Upper  
112 100  
64 51.9 45.0 67.4  
63 25.5 23.0 34.6





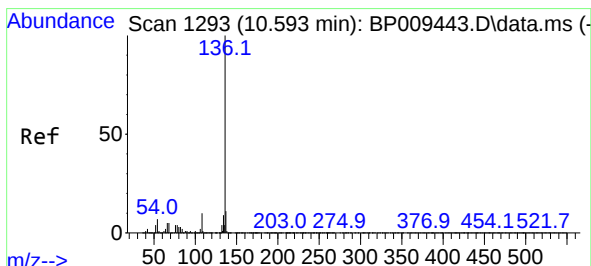
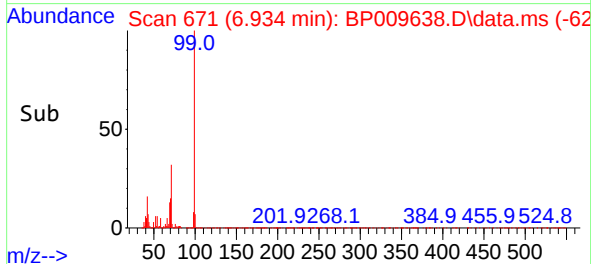
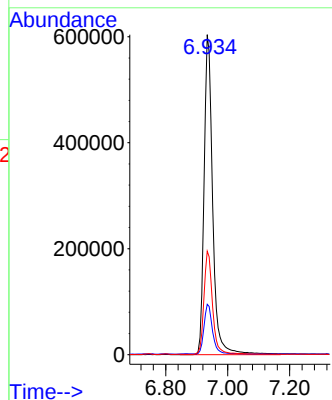
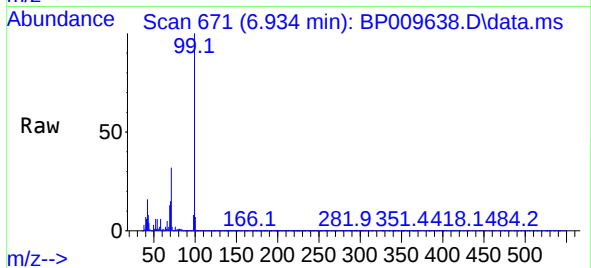
#7  
Phenol-d6  
Concen: 47.812 ng  
RT: 6.934 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BP009638.D  
Acq: 31 Mar 2022 14:27

Instrument :  
BNA\_P  
ClientSampleId :  
22L076-FRE

Tgt Ion: 99 Resp: 1163780  
Ion Ratio Lower Upper  
99 100  
42 15.7 12.8 19.2  
71 32.3 26.3 39.5

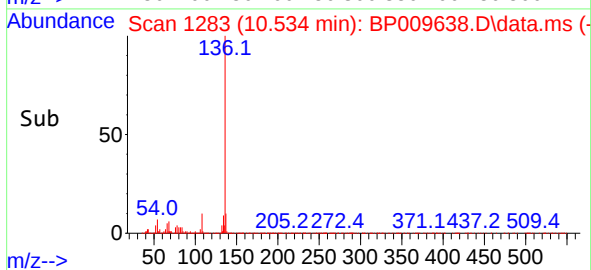
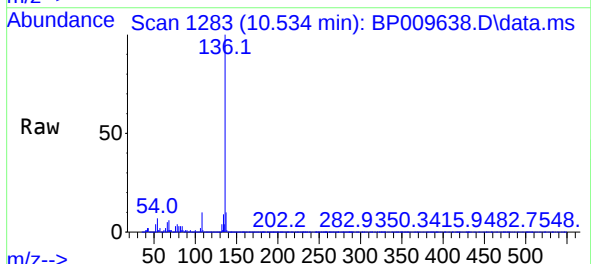
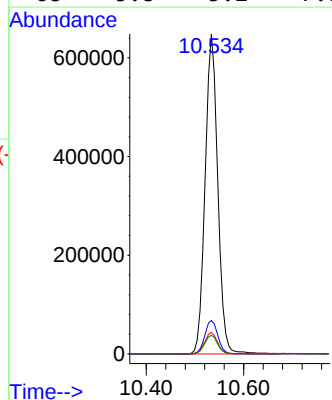
Manual Integrations  
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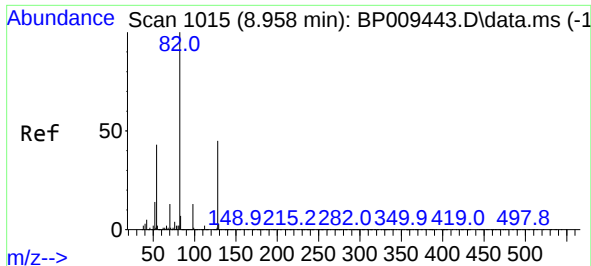
Reviewed By :Christian Giraldo 04/01/2022  
Supervised By :Jagrut Upadhyay 04/01/2022



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.534 min Scan# 1283  
Delta R.T. -0.000 min  
Lab File: BP009638.D  
Acq: 31 Mar 2022 14:27

Tgt Ion:136 Resp: 1164510  
Ion Ratio Lower Upper  
136 100  
137 10.5 8.6 12.8  
54 6.7 5.8 8.8  
68 5.8 5.2 7.8





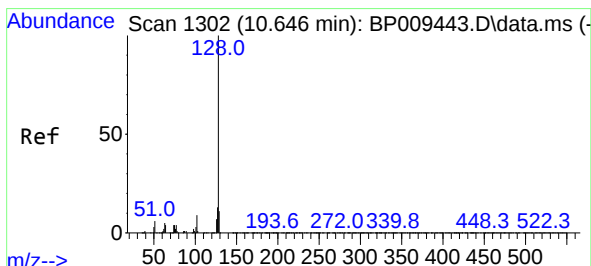
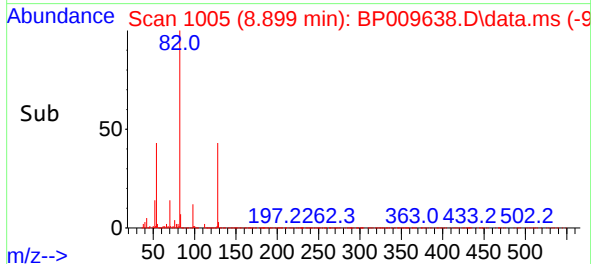
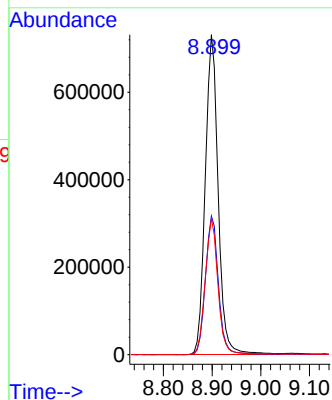
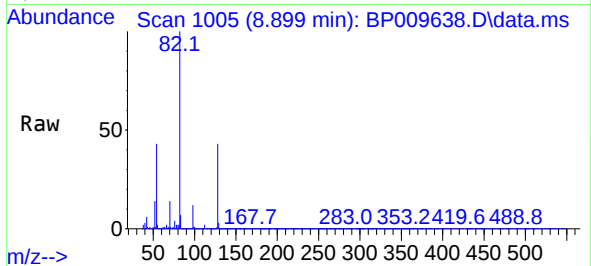
#23  
Nitrobenzene-d5  
Concen: 61.299 ng  
RT: 8.899 min Scan# 1005  
Delta R.T. -0.000 min  
Lab File: BP009638.D  
Acq: 31 Mar 2022 14:27

Instrument :  
BNA\_P  
ClientSampleId :  
22L076-FRE

Tgt Ion: 82 Resp: 134330  
Ion Ratio Lower Upper  
82 100  
128 43.3 34.2 51.4  
54 42.6 34.7 52.1

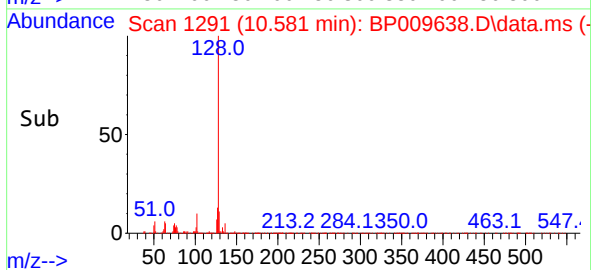
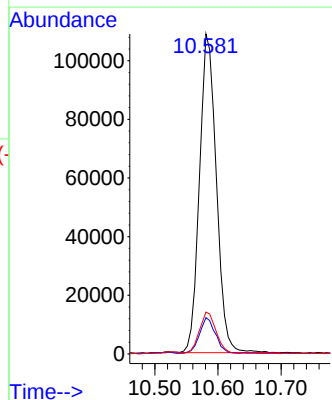
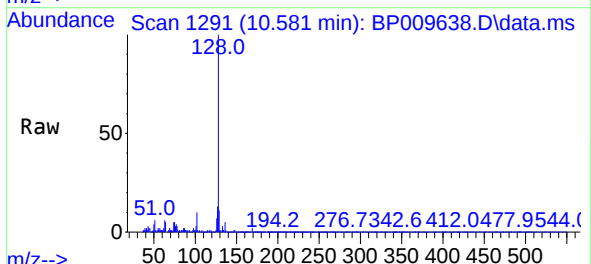
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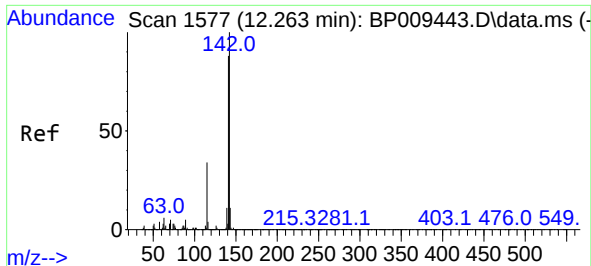
Reviewed By :Christian Giraldo 04/01/2022  
Supervised By :Jagrut Upadhyay 04/01/2022



#31  
Naphthalene  
Concen: 3.359 ng  
RT: 10.581 min Scan# 1291  
Delta R.T. -0.000 min  
Lab File: BP009638.D  
Acq: 31 Mar 2022 14:27

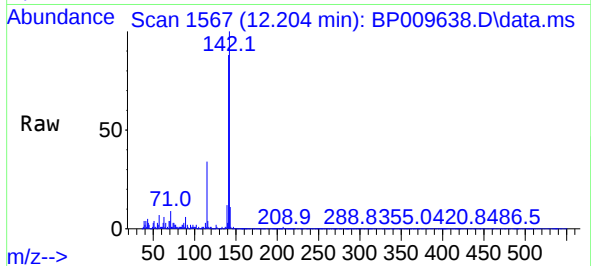
Tgt Ion:128 Resp: 201513  
Ion Ratio Lower Upper  
128 100  
129 11.4 8.6 13.0  
127 13.1 10.5 15.7





#37  
2-Methylnaphthalene  
Concen: 3.718 ng  
RT: 12.204 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: BP009638.D  
Acq: 31 Mar 2022 14:27

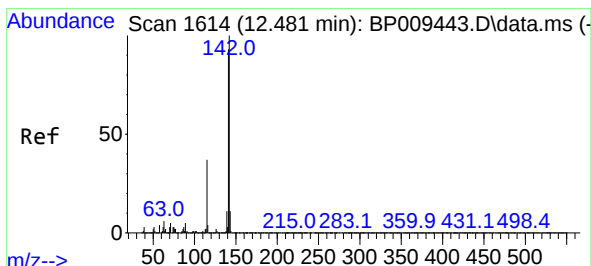
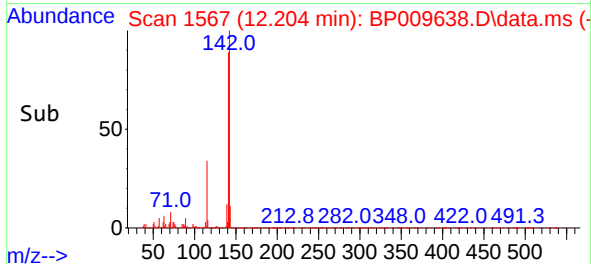
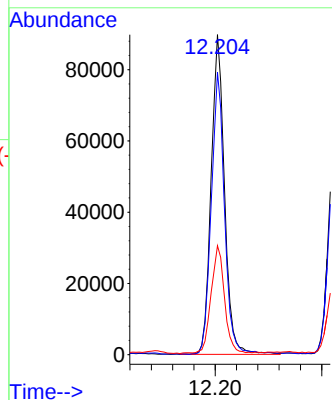
Instrument :  
BNA\_P  
ClientSampleId :  
22L076-FRE



Tgt Ion:142 Resp: 156468  
Ion Ratio Lower Upper  
142 100  
141 88.2 70.2 105.4  
115 34.1 27.4 41.2

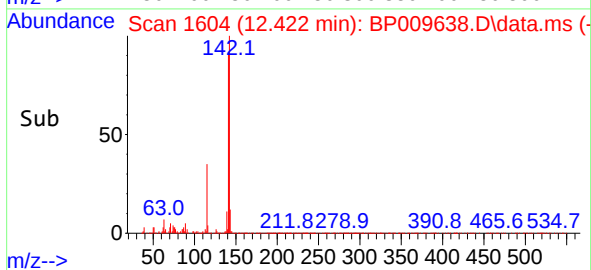
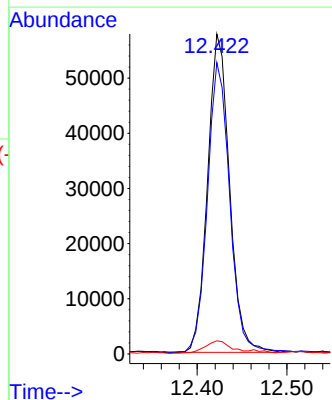
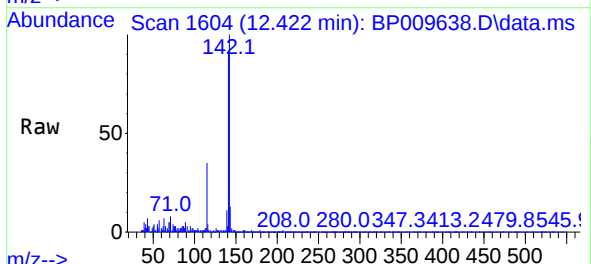
Manual Integrations  
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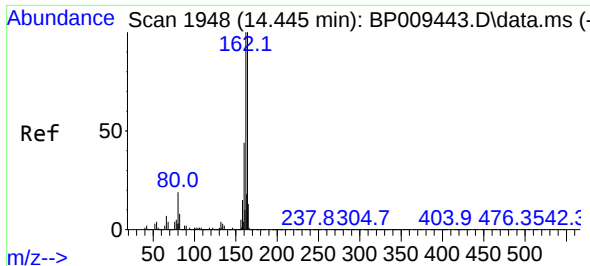
Reviewed By :Christian Giraldo 04/01/2022  
Supervised By :Jagrut Upadhyay 04/01/2022



#38  
1-Methylnaphthalene  
Concen: 2.396 ng  
RT: 12.422 min Scan# 1604  
Delta R.T. -0.000 min  
Lab File: BP009638.D  
Acq: 31 Mar 2022 14:27

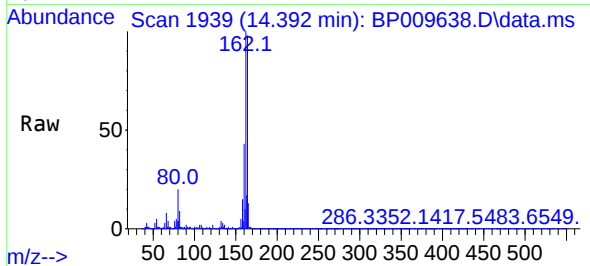
Tgt Ion:142 Resp: 98243  
Ion Ratio Lower Upper  
142 100  
141 91.0 73.5 110.3  
116 4.1 3.3 4.9





#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.392 min Scan# 1939  
Delta R.T. -0.000 min  
Lab File: BP009638.D  
Acq: 31 Mar 2022 14:27

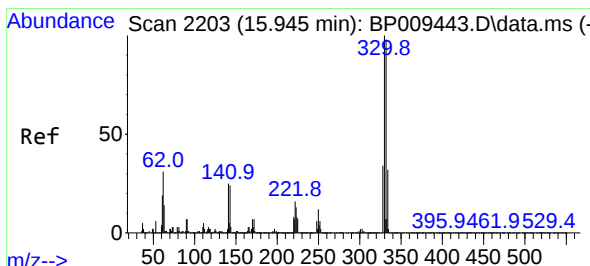
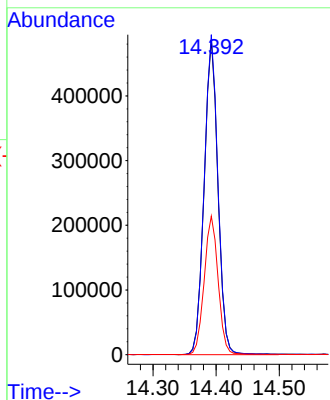
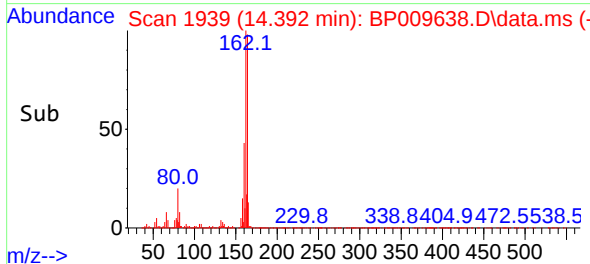
Instrument :  
BNA\_P  
ClientSampleId :  
22L076-FRE



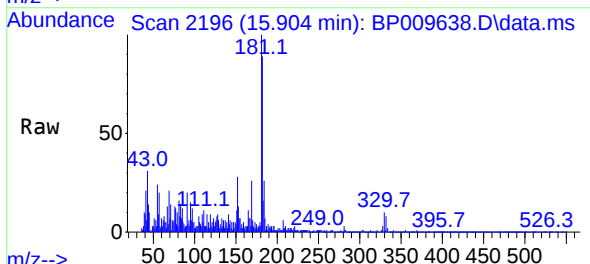
Tgt Ion:164 Resp: 738050  
Ion Ratio Lower Upper  
164 100  
162 101.6 79.1 118.7  
160 44.0 34.9 52.3

Manual Integrations  
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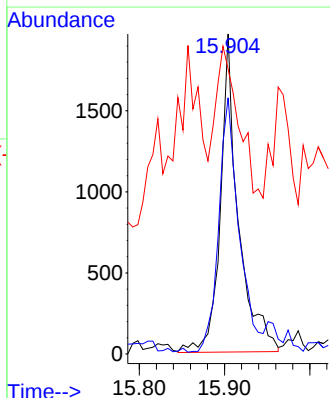
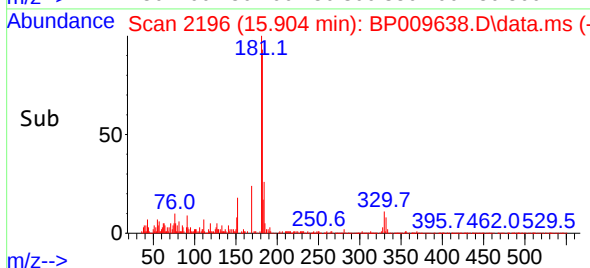
Reviewed By :Christian Giraldo 04/01/2022  
Supervised By :Jagrut Upadhyay 04/01/2022

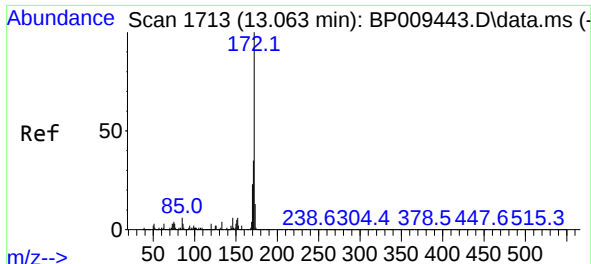


#42  
2,4,6-Tribromophenol  
Concen: 0.236 ng  
RT: 15.904 min Scan# 2196  
Delta R.T. 0.012 min  
Lab File: BP009638.D  
Acq: 31 Mar 2022 14:27



Tgt Ion:330 Resp: 2880  
Ion Ratio Lower Upper  
330 100  
332 90.5 77.0 115.6  
141 65.2 27.6 41.4#





#45  
2-Fluorobiphenyl  
Concen: 60.450 ng  
RT: 13.010 min Scan# 1713  
Delta R.T. -0.000 min  
Lab File: BP009638.D  
Acq: 31 Mar 2022 14:27

Instrument :

BNA\_P

ClientSampleId :

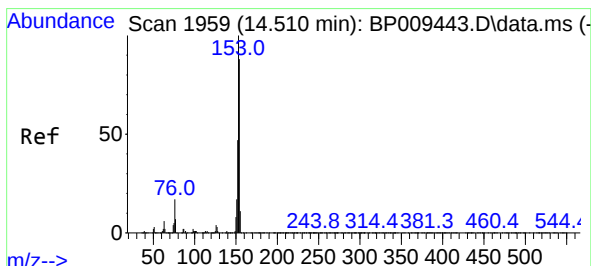
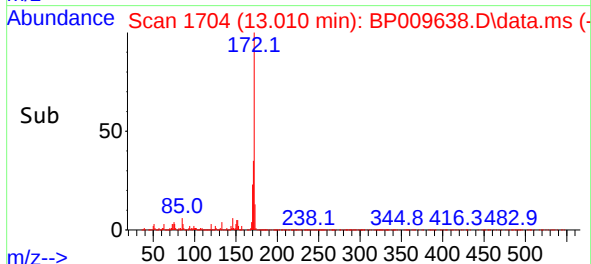
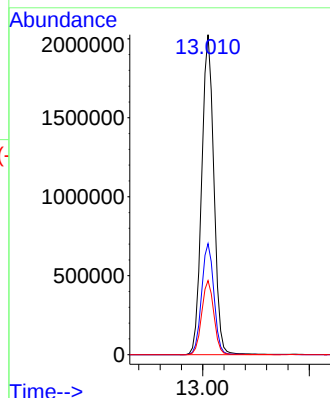
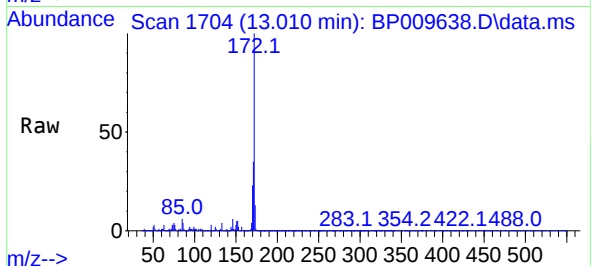
22L076-FRE

Tgt Ion:172 Resp: 321831  
Ion Ratio Lower Upper  
172 100  
171 34.7 28.0 42.0  
170 23.1 18.6 27.8

Manual Integrations

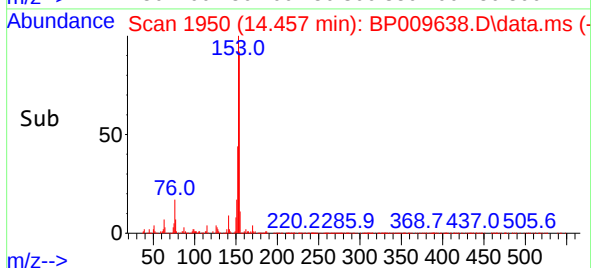
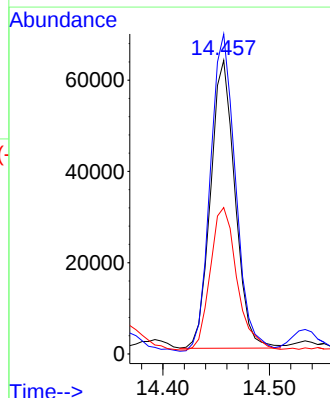
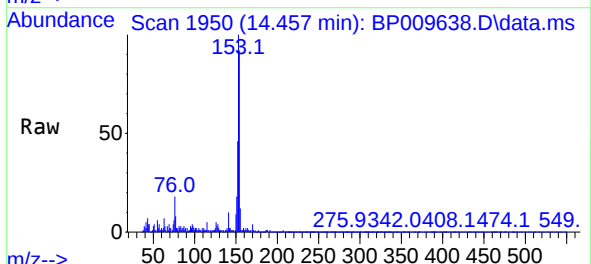
APPROVED

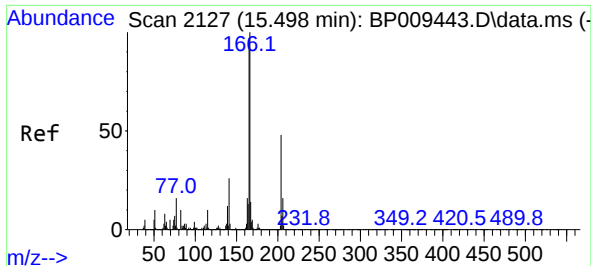
Reviewed By :Christian Giraldo 04/01/2022  
Supervised By :Jagrut Upadhyay 04/01/2022



#52  
Acenaphthene  
Concen: 2.519 ng  
RT: 14.457 min Scan# 1950  
Delta R.T. -0.000 min  
Lab File: BP009638.D  
Acq: 31 Mar 2022 14:27

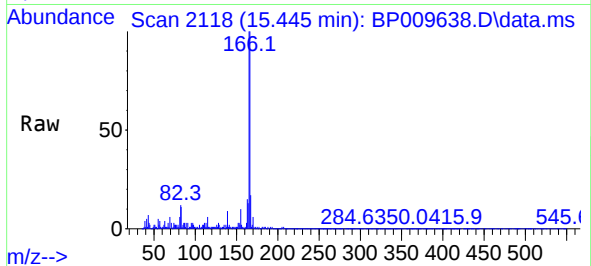
Tgt Ion:154 Resp: 100694  
Ion Ratio Lower Upper  
154 100  
153 109.0 90.2 135.4  
152 49.9 42.7 64.1





#58  
Fluorene  
Concen: 2.678 ng  
RT: 15.445 min Scan# 2127  
Delta R.T. -0.000 min  
Lab File: BP009638.D  
Acq: 31 Mar 2022 14:27

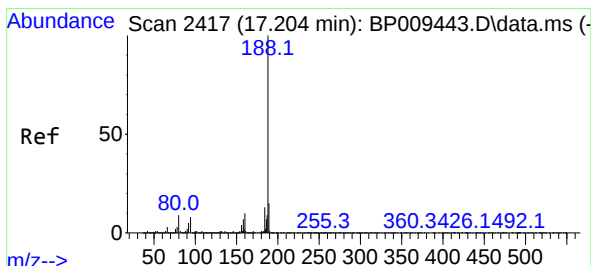
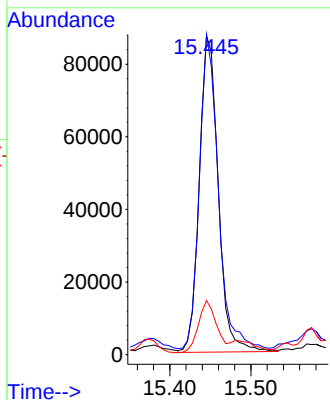
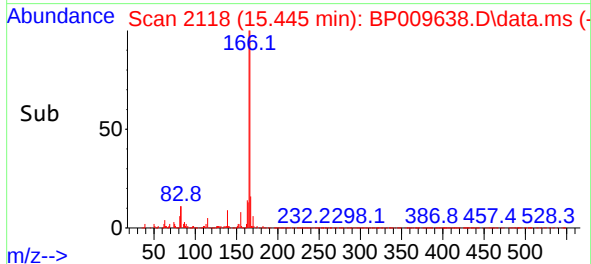
Instrument :  
BNA\_P  
ClientSampleId :  
22L076-FRE



Tgt Ion:166 Resp: 141428  
Ion Ratio Lower Upper  
166 100  
165 100.2 79.2 118.8  
167 17.0 10.7 16.1

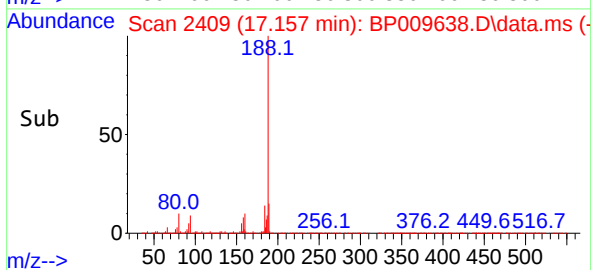
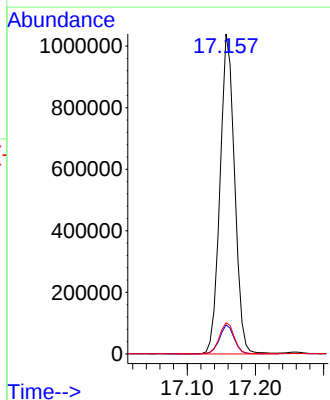
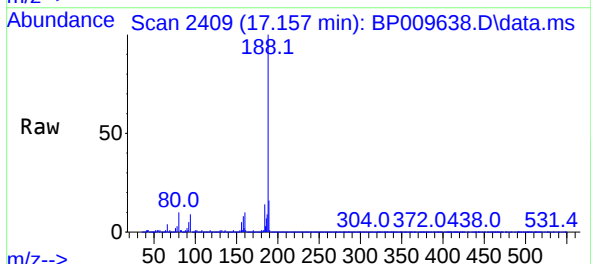
Manual Integrations  
APPROVED

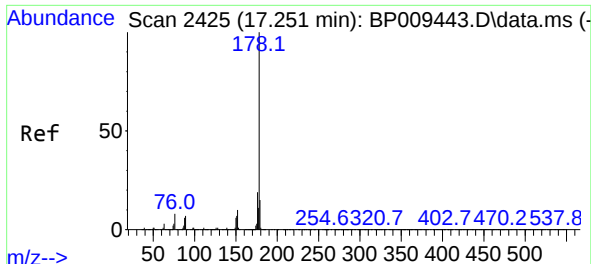
Reviewed By :Christian Giraldo 04/01/2022  
Supervised By :Jagrut Upadhyay 04/01/2022



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.157 min Scan# 2409  
Delta R.T. -0.000 min  
Lab File: BP009638.D  
Acq: 31 Mar 2022 14:27

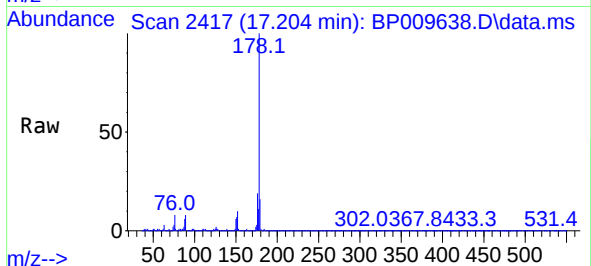
Tgt Ion:188 Resp: 1547748  
Ion Ratio Lower Upper  
188 100  
94 9.1 7.9 11.9  
80 9.8 8.8 13.2





#71  
Phenanthrene  
Concen: 21.421 ng  
RT: 17.204 min Scan# 2417  
Delta R.T. 0.006 min  
Lab File: BP009638.D  
Acq: 31 Mar 2022 14:27

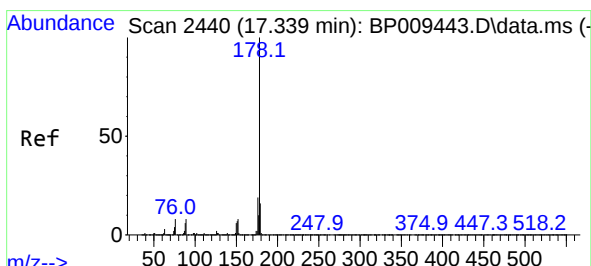
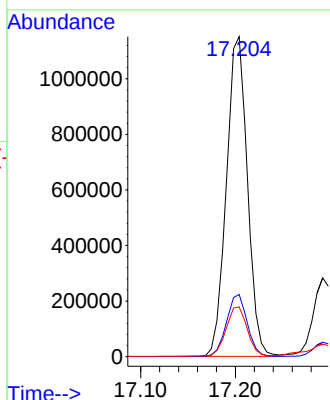
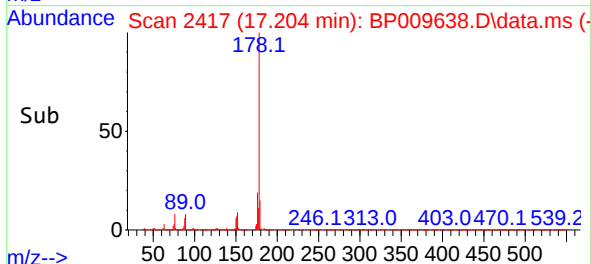
Instrument :  
BNA\_P  
ClientSampleId :  
22L076-FRE



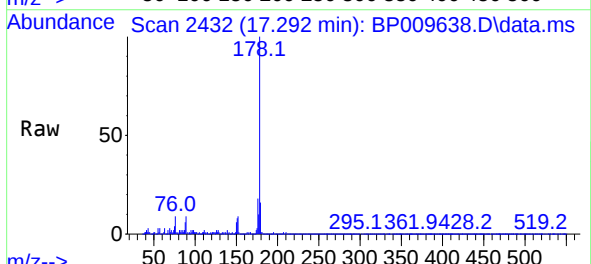
Tgt Ion:178 Resp: 1774720  
Ion Ratio Lower Upper  
178 100  
176 19.5 15.4 23.2  
179 15.5 12.3 18.5

Manual Integrations  
APPROVED

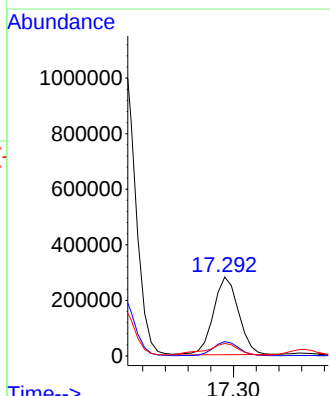
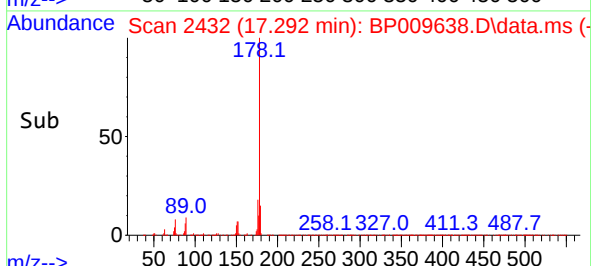
Reviewed By :Christian Giraldo 04/01/2022  
Supervised By :Jagrut Upadhyay 04/01/2022

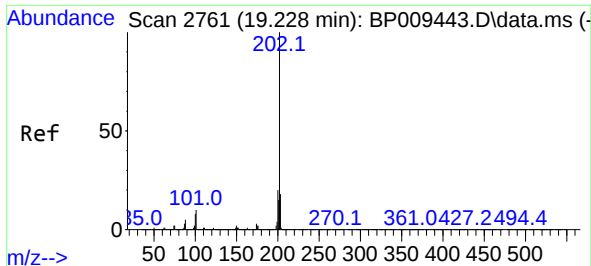


#72  
Anthracene  
Concen: 5.263 ng  
RT: 17.292 min Scan# 2432  
Delta R.T. -0.000 min  
Lab File: BP009638.D  
Acq: 31 Mar 2022 14:27



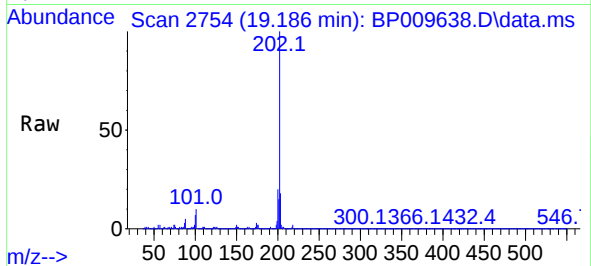
Tgt Ion:178 Resp: 430530  
Ion Ratio Lower Upper  
178 100  
176 18.3 14.8 22.2  
179 15.9 12.2 18.4





#75  
Fluoranthene  
Concen: 14.649 ng  
RT: 19.186 min Scan# 2110  
Delta R.T. 0.006 min  
Lab File: BP009638.D  
Acq: 31 Mar 2022 14:27

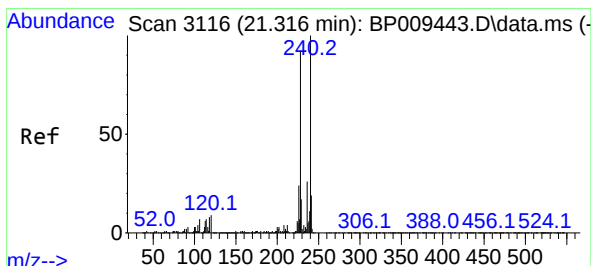
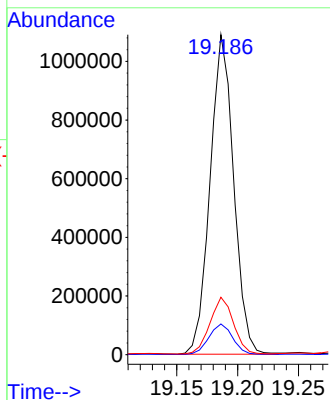
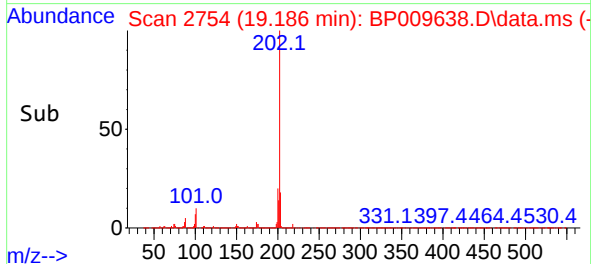
Instrument :  
BNA\_P  
ClientSampleId :  
22L076-FRE



Tgt Ion:202 Resp: 146933  
Ion Ratio Lower Upper  
202 100  
101 9.6 0.0 31.5  
203 17.9 0.0 37.8

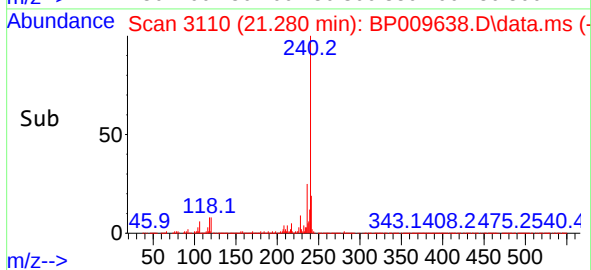
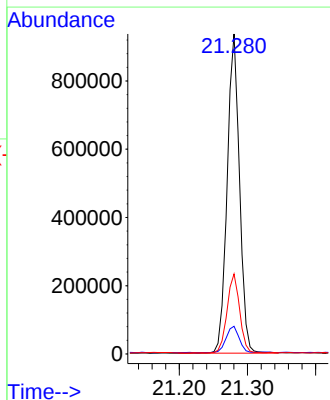
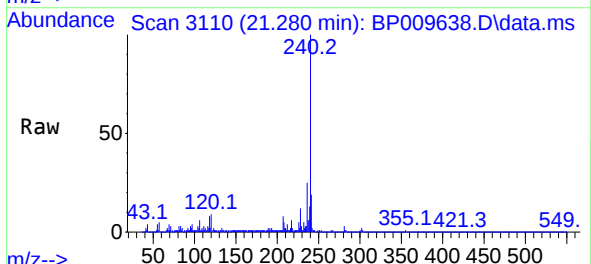
Manual Integrations  
APPROVED

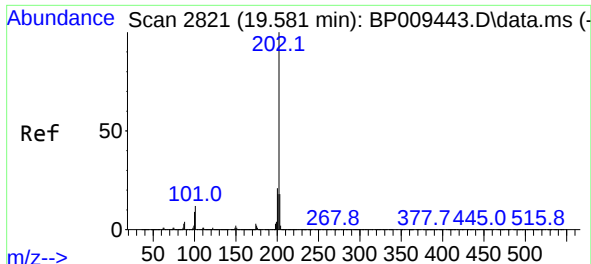
Reviewed By :Christian Giraldo 04/01/2022  
Supervised By :Jagrut Upadhyay 04/01/2022



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.280 min Scan# 3110  
Delta R.T. 0.006 min  
Lab File: BP009638.D  
Acq: 31 Mar 2022 14:27

Tgt Ion:240 Resp: 1179457  
Ion Ratio Lower Upper  
240 100  
120 8.6 9.0 13.4#  
236 25.0 20.6 30.8





#78  
Pyrene  
Concen: 17.052 ng  
RT: 19.539 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BP009638.D  
Acq: 31 Mar 2022 14:27

Instrument :

BNA\_P

ClientSampleId :

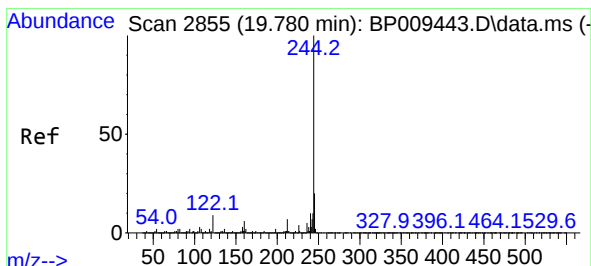
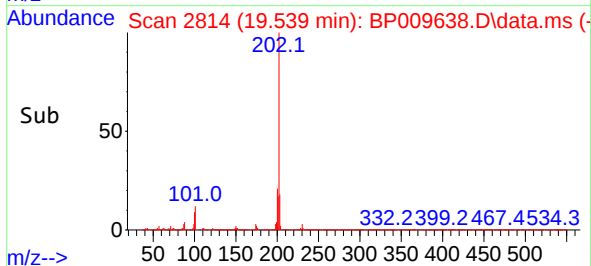
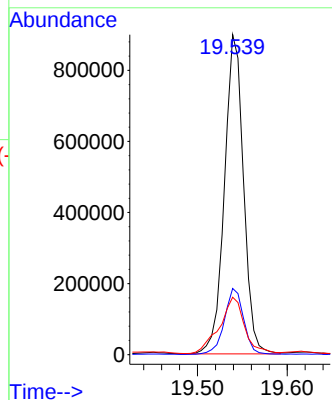
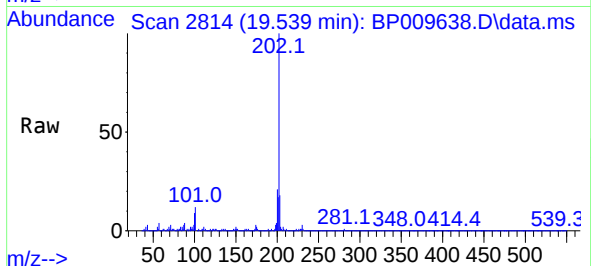
22L076-FRE

Tgt Ion:202 Resp: 1325308  
Ion Ratio Lower Upper  
202 100  
200 20.7 16.8 25.2  
203 17.9 14.2 21.4

Manual Integrations

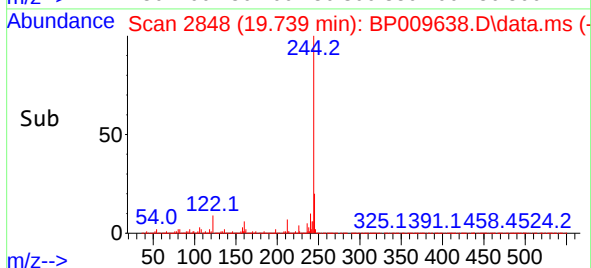
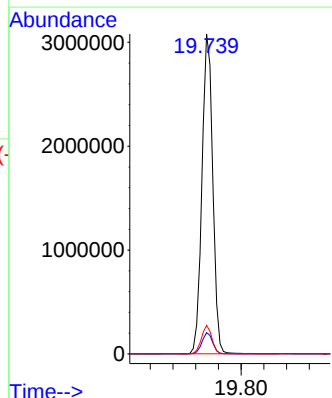
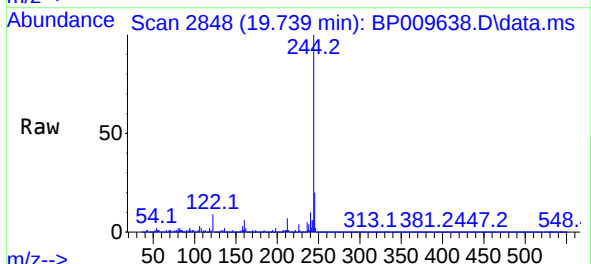
APPROVED

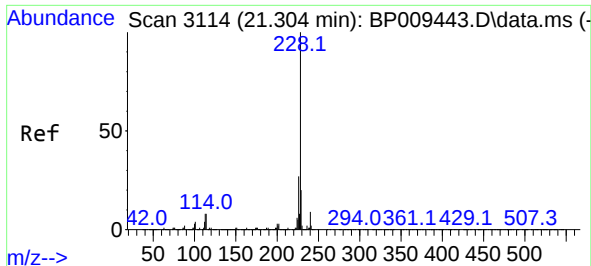
Reviewed By :Christian Giraldo 04/01/2022  
Supervised By :Jagrut Upadhyay 04/01/2022



#79  
Terphenyl-d14  
Concen: 61.899 ng  
RT: 19.739 min Scan# 2848  
Delta R.T. -0.000 min  
Lab File: BP009638.D  
Acq: 31 Mar 2022 14:27

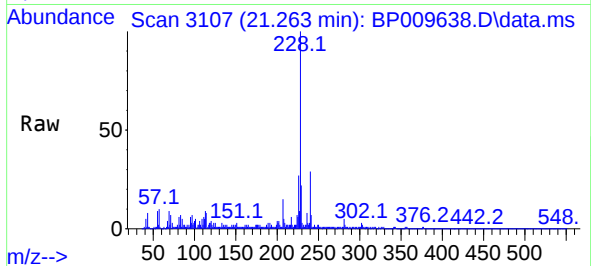
Tgt Ion:244 Resp: 4067495  
Ion Ratio Lower Upper  
244 100  
212 6.6 5.8 8.6  
122 8.9 8.3 12.5





#81  
Benzo(a)anthracene  
Concen: 8.879 ng  
RT: 21.263 min Scan# 3114  
Delta R.T. -0.000 min  
Lab File: BP009638.D  
Acq: 31 Mar 2022 14:27

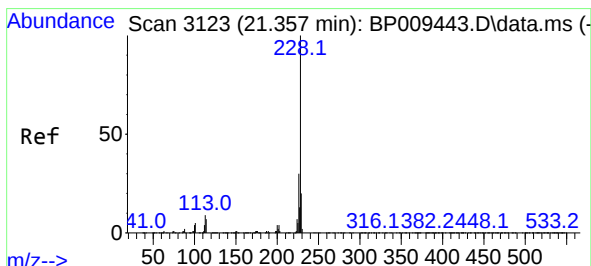
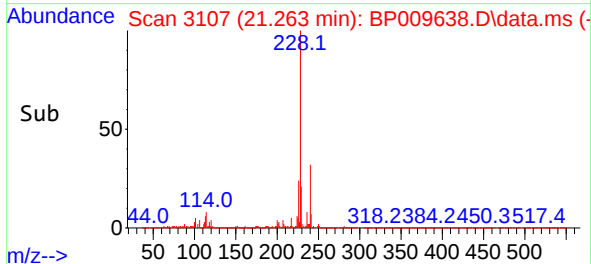
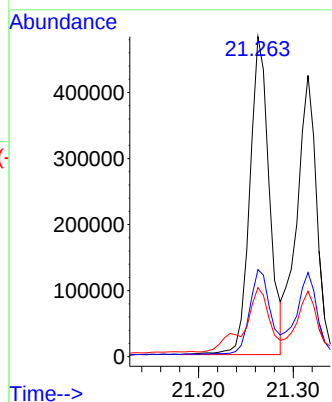
Instrument :  
BNA\_P  
ClientSampleId :  
22L076-FRE



Tgt Ion:228 Resp: 68804  
Ion Ratio Lower Upper  
228 100  
226 27.2 22.0 33.0  
229 21.6 16.1 24.1

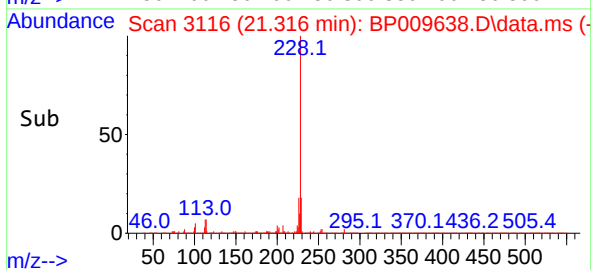
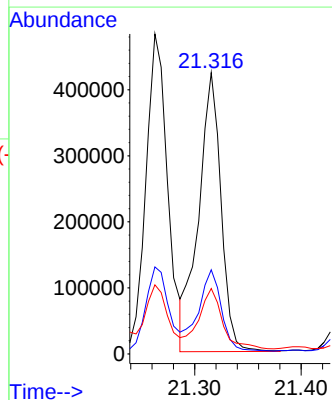
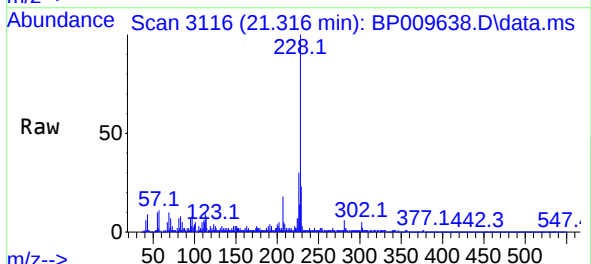
Manual Integrations  
APPROVED

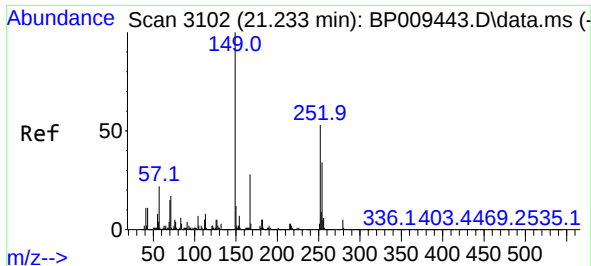
Reviewed By :Christian Giraldo 04/01/2022  
Supervised By :Jagrut Upadhyay 04/01/2022



#83  
Chrysene  
Concen: 8.478 ng  
RT: 21.316 min Scan# 3116  
Delta R.T. 0.006 min  
Lab File: BP009638.D  
Acq: 31 Mar 2022 14:27

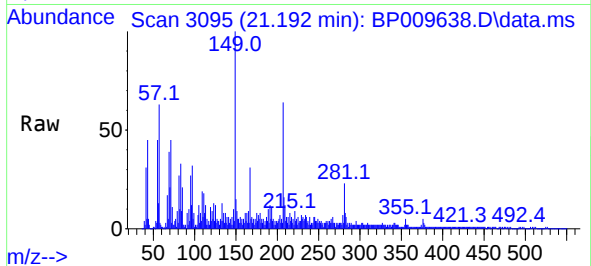
Tgt Ion:228 Resp: 622053  
Ion Ratio Lower Upper  
228 100  
226 29.9 24.2 36.2  
229 23.2 16.1 24.1





#84  
Bis(2-ethylhexyl)phthalate  
Concen: 2.625 ng  
RT: 21.192 min Scan# 3095  
Delta R.T. -0.000 min  
Lab File: BP009638.D  
Acq: 31 Mar 2022 14:27

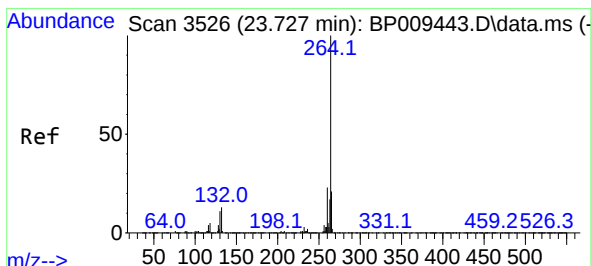
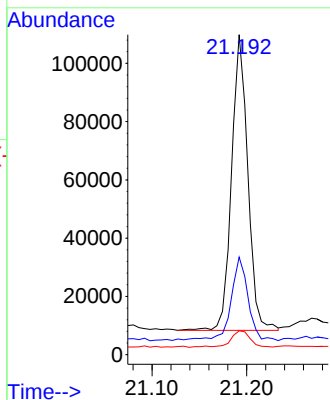
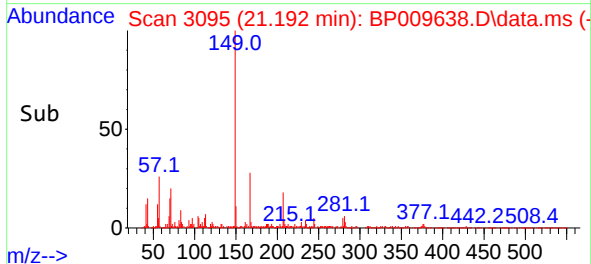
Instrument :  
BNA\_P  
ClientSampleId :  
22L076-FRE



Tgt Ion:149 Resp: 120878  
Ion Ratio Lower Upper  
149 100  
167 30.5 22.6 33.8  
279 7.5 3.8 5.6

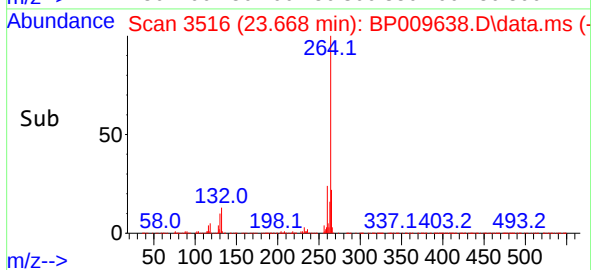
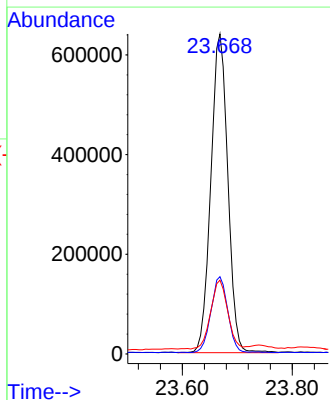
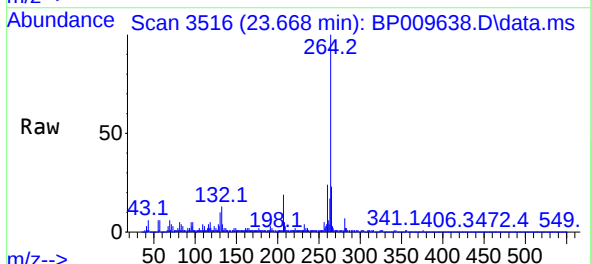
Manual Integrations  
APPROVED

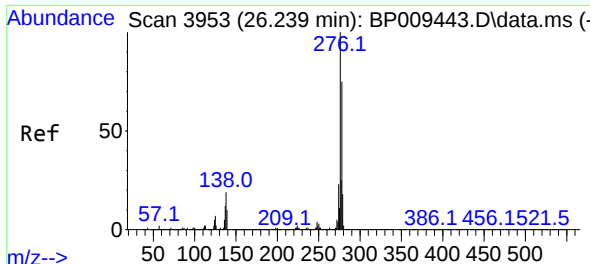
Reviewed By :Christian Giraldo 04/01/2022  
Supervised By :Jagrut Upadhyay 04/01/2022



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 23.668 min Scan# 3516  
Delta R.T. 0.018 min  
Lab File: BP009638.D  
Acq: 31 Mar 2022 14:27

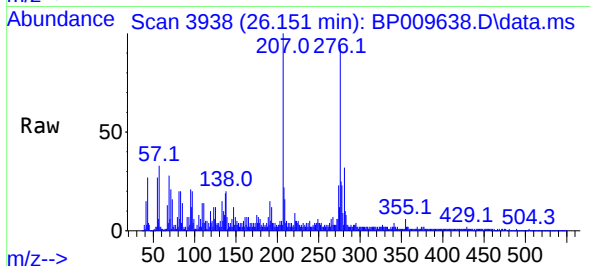
Tgt Ion:264 Resp: 1371047  
Ion Ratio Lower Upper  
264 100  
260 24.1 19.4 29.0  
265 23.1 17.2 25.8





#87  
Indeno(1,2,3-cd)pyrene  
Concen: 4.384 ng  
RT: 26.151 min Scan# 3938  
Delta R.T. 0.012 min  
Lab File: BP009638.D  
Acq: 31 Mar 2022 14:27

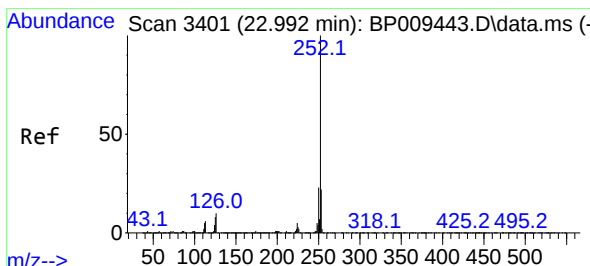
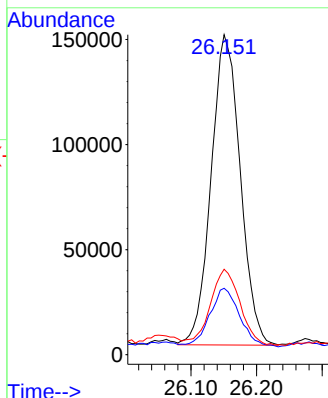
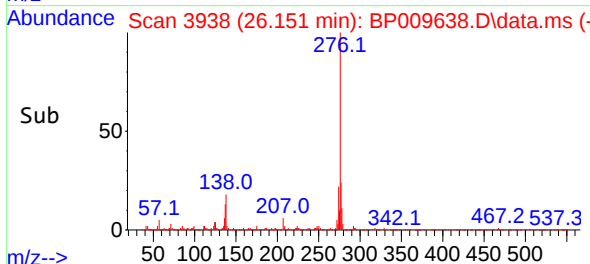
Instrument :  
BNA\_P  
ClientSampleId :  
22L076-FRE



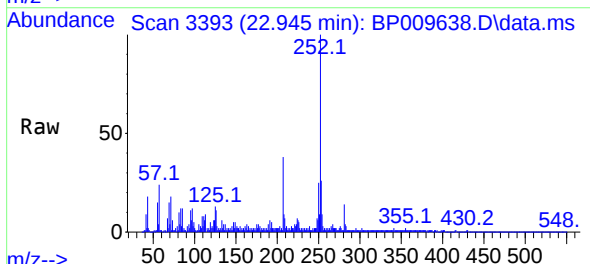
Tgt Ion: 276 Resp: 456034  
Ion Ratio Lower Upper  
276 100  
138 19.3 20.5 30.7  
277 24.6 20.4 30.6

Manual Integrations  
APPROVED

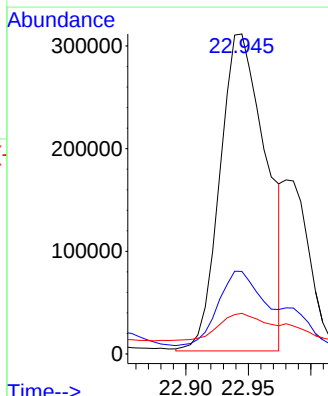
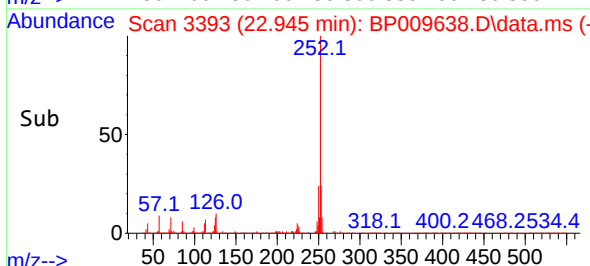
Reviewed By : Christian Giraldo 04/01/2022  
Supervised By : Jagrut Upadhyay 04/01/2022

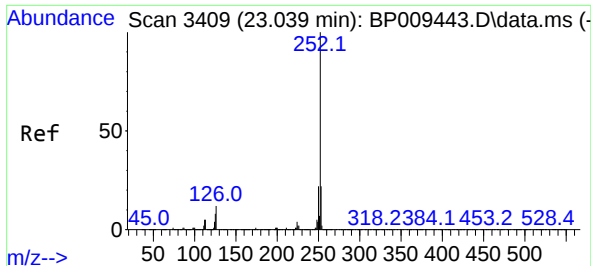


#88  
Benzo(b)fluoranthene  
Concen: 9.702 ng m  
RT: 22.945 min Scan# 3393  
Delta R.T. 0.018 min  
Lab File: BP009638.D  
Acq: 31 Mar 2022 14:27



Tgt Ion: 252 Resp: 794077  
Ion Ratio Lower Upper  
252 100  
253 25.8 17.8 26.8  
125 12.7 8.1 12.1





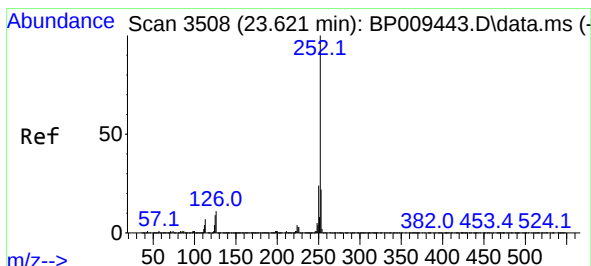
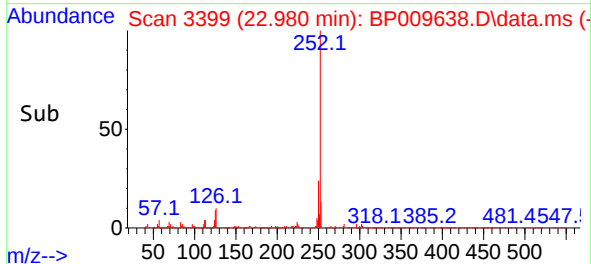
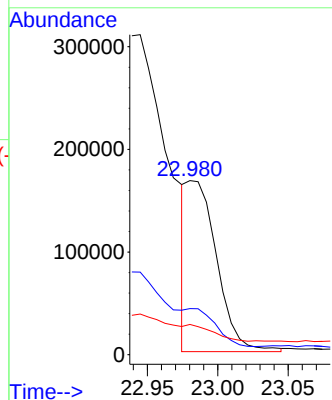
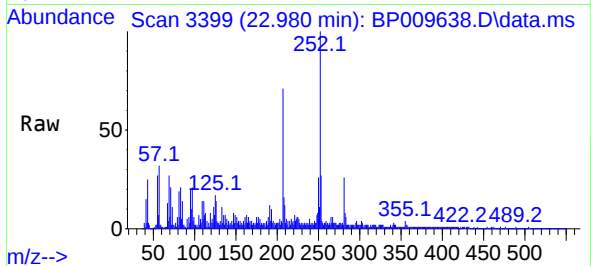
#89  
Benzo(k)fluoranthene  
Concen: 3.082 ng m  
RT: 22.980 min Scan# 31  
Delta R.T. -0.000 min  
Lab File: BP009638.D  
Acq: 31 Mar 2022 14:27

Instrument :  
BNA\_P  
ClientSampleId :  
22L076-FRE

Tgt Ion:252 Resp: 24701  
Ion Ratio Lower Upper  
252 100  
253 26.5 17.5 26.3  
125 17.3 8.3 12.5

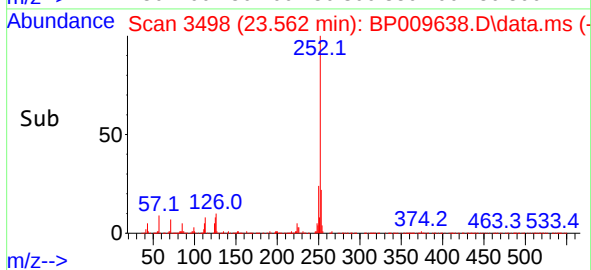
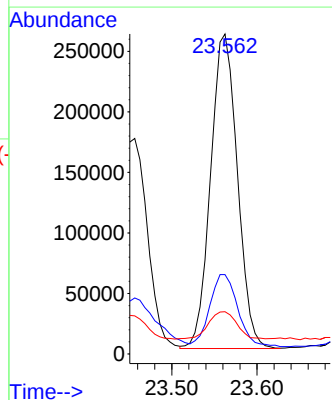
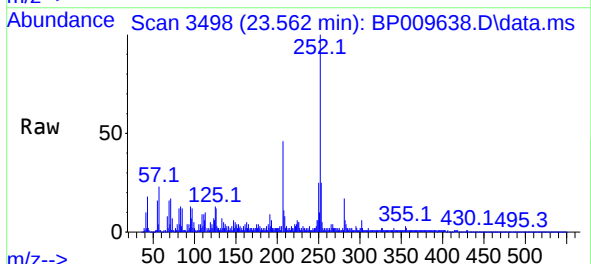
Manual Integrations  
APPROVED

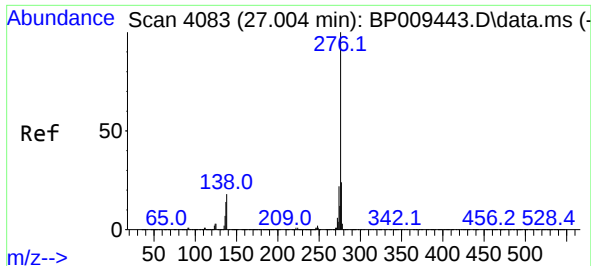
Reviewed By :Christian Giraldo 04/01/2022  
Supervised By :Jagrut Upadhyay 04/01/2022



#90  
Benzo(a)pyrene  
Concen: 8.115 ng  
RT: 23.562 min Scan# 3498  
Delta R.T. 0.012 min  
Lab File: BP009638.D  
Acq: 31 Mar 2022 14:27

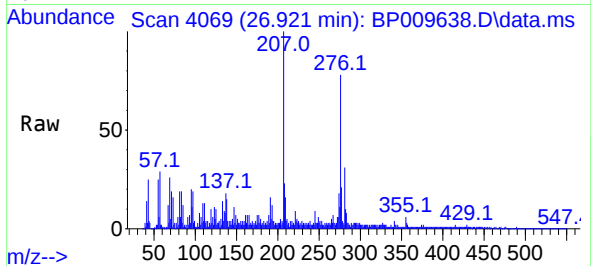
Tgt Ion:252 Resp: 568272  
Ion Ratio Lower Upper  
252 100  
253 24.8 17.8 26.6  
125 13.2 9.3 13.9





#92  
Benzo(g,h,i)perylene  
Concen: 5.516 ng  
RT: 26.921 min Scan# 4069  
Delta R.T. 0.023 min  
Lab File: BP009638.D  
Acq: 31 Mar 2022 14:27

Instrument :  
BNA\_P  
ClientSampleId :  
22L076-FRE



Tgt Ion: 276 Resp: 470440  
Ion Ratio Lower Upper  
276 100  
277 26.3 19.2 28.8  
138 19.2 18.0 27.0

Manual Integrations  
APPROVED

Reviewed By : Christian Giraldo 04/01/2022  
Supervised By : Jagrut Upadhyay 04/01/2022

