

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP081924\  
 Data File : BP021554.D  
 Acq On : 19 Aug 2024 15:15  
 Operator : RC/JU  
 Sample : P3518-09RE  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 OU4-TS-05-080724RE

Quant Time: Aug 19 15:49:57 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP081324.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 14 00:00:30 2024  
 Response via : Initial Calibration

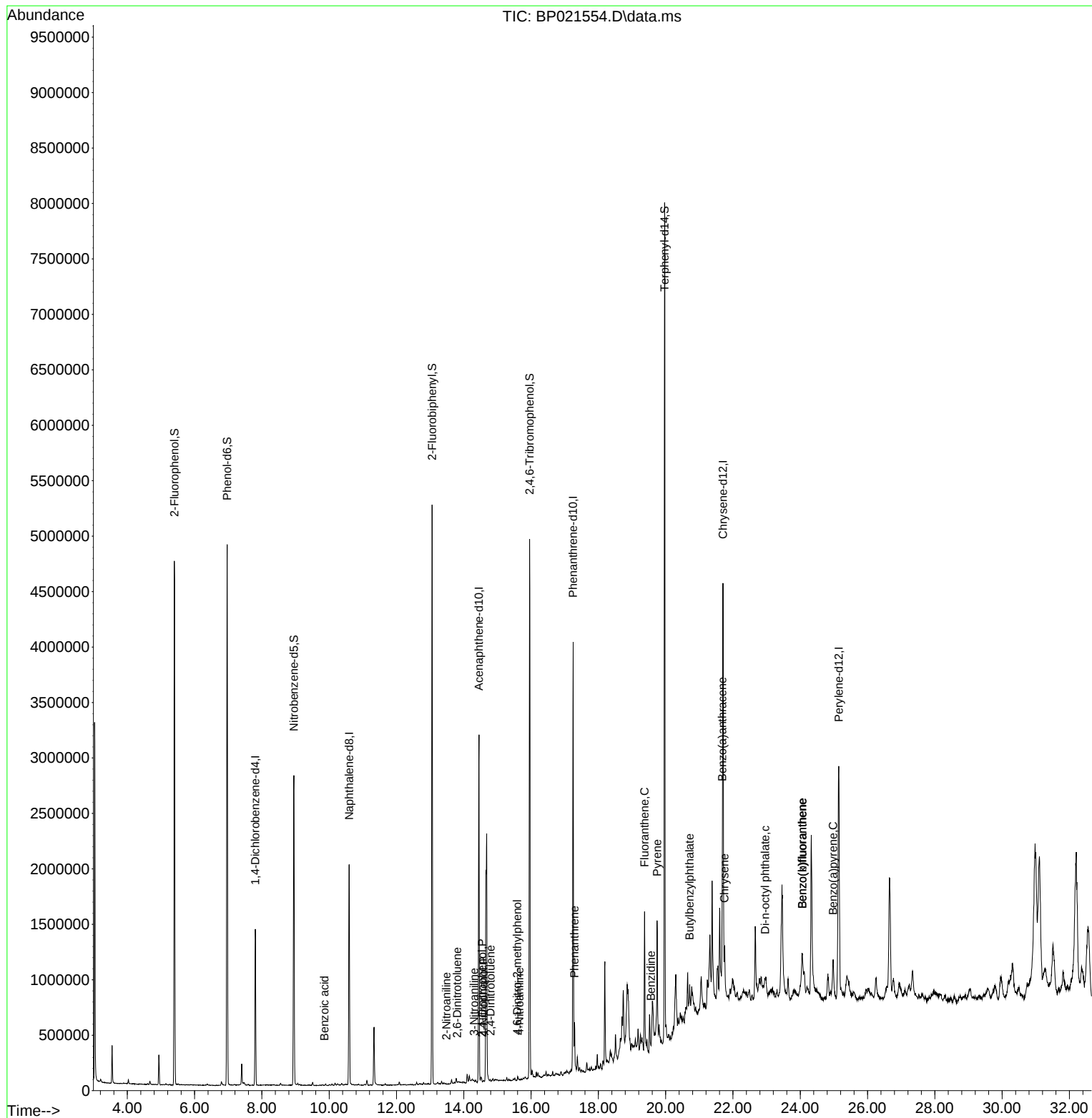
| Compound                      | R.T.   | QIon | Response | Conc      | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-----------|-------|----------|
| -----                         |        |      |          |           |       |          |
| Internal Standards            |        |      |          |           |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.805  | 152  | 380459   | 20.000    | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.593 | 136  | 1641031  | 20.000    | ng    | 0.00     |
| 39) Acenaphthene-d10          | 14.451 | 164  | 1066429  | 20.000    | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.251 | 188  | 2220298  | 20.000    | ng    | 0.00     |
| 76) Chrysene-d12              | 21.704 | 240  | 1966852  | 20.000    | ng    | 0.00     |
| 86) Perylene-d12              | 25.145 | 264  | 2303251  | 20.000    | ng    | 0.04     |
|                               |        |      |          |           |       |          |
| System Monitoring Compounds   |        |      |          |           |       |          |
| 5) 2-Fluorophenol             | 5.399  | 112  | 2193280  | 85.600    | ng    | 0.00     |
| 7) Phenol-d6                  | 6.969  | 99   | 3224405  | 86.266    | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 8.952  | 82   | 1847586  | 58.112    | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 15.957 | 330  | 1052833  | 88.705    | ng    | -0.01    |
| 45) 2-Fluorobiphenyl          | 13.057 | 172  | 2711670  | 38.806    | ng    | 0.00     |
| 79) Terphenyl-d14             | 19.969 | 244  | 4109722  | 40.593    | ng    | 0.00     |
|                               |        |      |          |           |       |          |
| Target Compounds              |        |      |          |           |       | Qvalue   |
| 26) 2-Nitrophenol             | 9.716  | 139  | 210      | Below Cal | #     | 1        |
| 32) Benzoic acid              | 9.857  | 122  | 259      | 3.349     | ng    | # 24     |
| 48) 2-Nitroaniline            | 13.487 | 65   | 242      | 5.160     | ng    | # 55     |
| 51) 2,6-Dinitrotoluene        | 13.804 | 165  | 76       | 3.990     | ng    | # 85     |
| 53) 3-Nitroaniline            | 14.304 | 138  | 305      | 3.989     | ng    | # 70     |
| 54) 2,4-Dinitrophenol         | 14.551 | 184  | 209      | 2.510     | ng    | # 1      |
| 56) 4-Nitrophenol             | 14.581 | 139  | 1231     | 5.176     | ng    | # 93     |
| 57) 2,4-Dinitrotoluene        | 14.798 | 165  | 229      | 5.034     | ng    | # 49     |
| 62) 4-Nitroaniline            | 15.651 | 138  | 280      | 2.953     | ng    | # 83     |
| 65) 4,6-Dinitro-2-methylph... | 15.586 | 198  | 135      | 4.632     | ng    | # 1      |
| 71) Phenanthrene              | 17.292 | 178  | 258450   | 2.420     | ng    | # 98     |
| 75) Fluoranthene              | 19.375 | 202  | 668199   | 5.100     | ng    | # 99     |
| 77) Benzidine                 | 19.563 | 184  | 351      | 4.578     | ng    | # 1      |
| 78) Pyrene                    | 19.745 | 202  | 624189   | 4.855     | ng    | # 99     |
| 80) Butylbenzylphthalate      | 20.716 | 149  | 6032     | 3.717     | ng    | # 39     |
| 81) Benzo(a)anthracene        | 21.686 | 228  | 288032   | 2.333     | ng    | # 92     |
| 83) Chrysene                  | 21.751 | 228  | 314430   | 2.697     | ng    | # 97     |
| 85) Di-n-octyl phthalate      | 22.957 | 149  | 2586     | 4.854     | ng    | # 59     |
| 88) Benzo(b)fluoranthene      | 24.062 | 252  | 455483   | 3.443     | ng    | # 95     |
| 89) Benzo(k)fluoranthene      | 24.062 | 252  | 455483   | 3.530     | ng    | # 94     |
| 90) Benzo(a)pyrene            | 24.980 | 252  | 301205   | 2.624     | ng    | # 95     |
| -----                         |        |      |          |           |       |          |

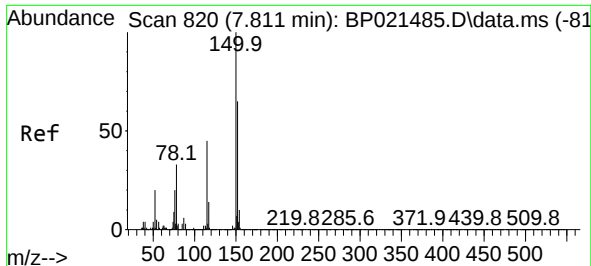
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP081924\  
Data File : BP021554.D  
Acq On : 19 Aug 2024 15:15  
Operator : RC/JU  
Sample : P3518-09RE  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
OU4-TS-05-080724RE

Quant Time: Aug 19 15:49:57 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP081324.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 14 00:00:30 2024  
Response via : Initial Calibration

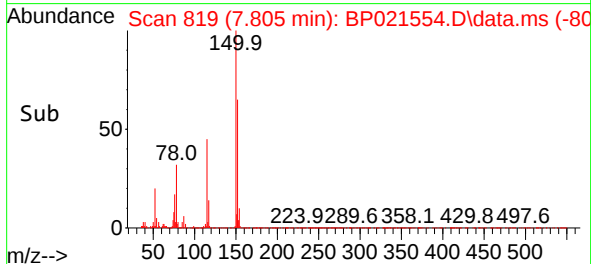
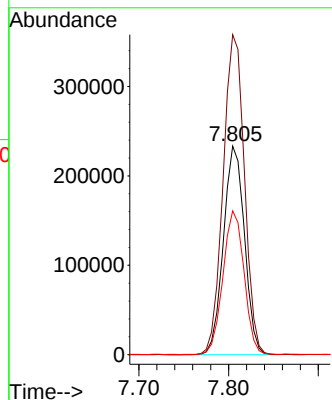
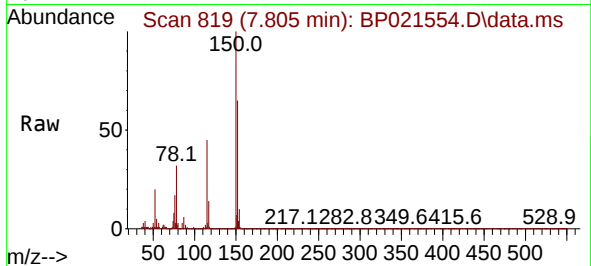




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.805 min Scan# 81  
Delta R.T. -0.006 min  
Lab File: BP021554.D  
Acq: 19 Aug 2024 15:15

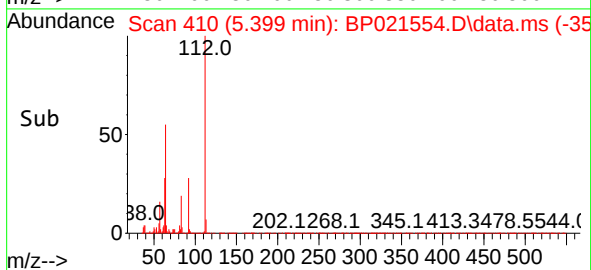
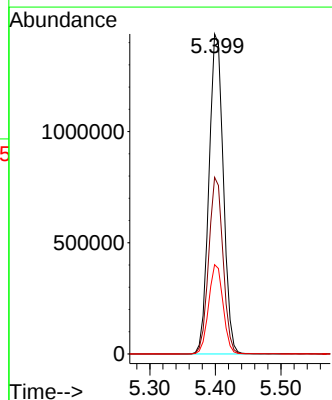
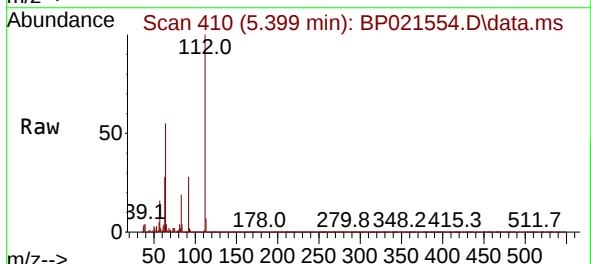
Instrument :  
BNA\_P  
ClientSampleId :  
OU4-TS-05-080724RE

Tgt Ion:152 Resp: 380459  
Ion Ratio Lower Upper  
152 100  
150 153.3 122.4 183.6  
115 68.9 54.7 82.1



#5  
2-Fluorophenol  
Concen: 85.600 ng  
RT: 5.399 min Scan# 410  
Delta R.T. 0.006 min  
Lab File: BP021554.D  
Acq: 19 Aug 2024 15:15

Tgt Ion:112 Resp: 2193280  
Ion Ratio Lower Upper  
112 100  
64 55.2 49.0 73.6  
63 27.9 24.6 36.8

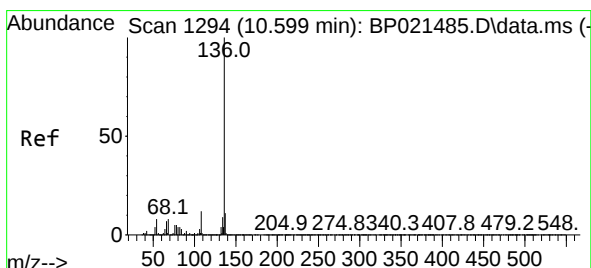
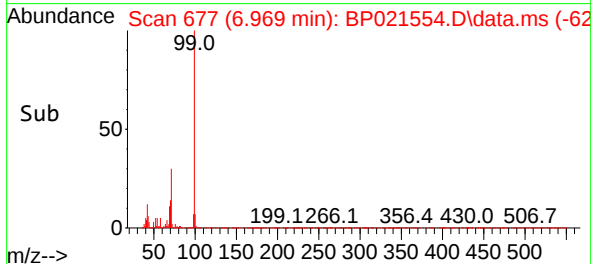
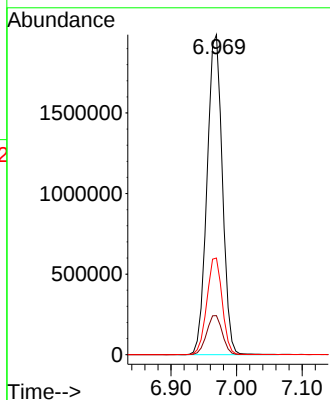
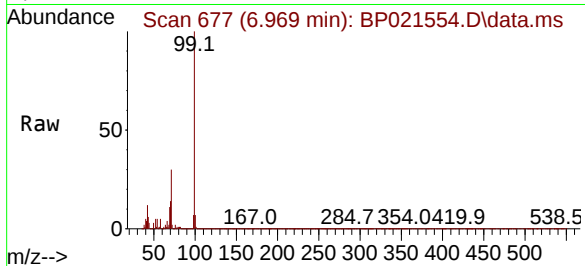




#7  
Phenol-d6  
Concen: 86.266 ng  
RT: 6.969 min Scan# 61  
Delta R.T. 0.006 min  
Lab File: BP021554.D  
Acq: 19 Aug 2024 15:15

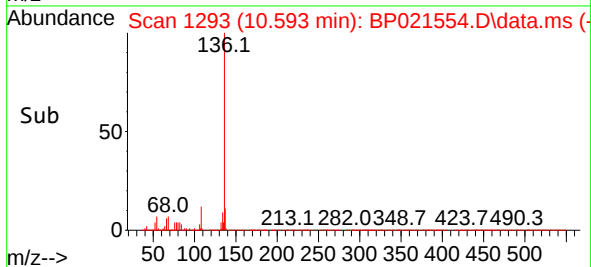
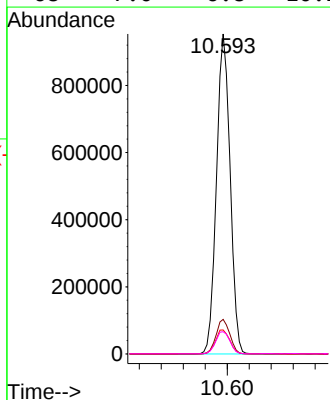
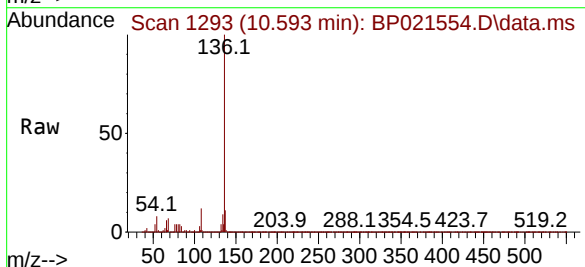
Instrument :  
BNA\_P  
ClientSampleId :  
OU4-TS-05-080724RE

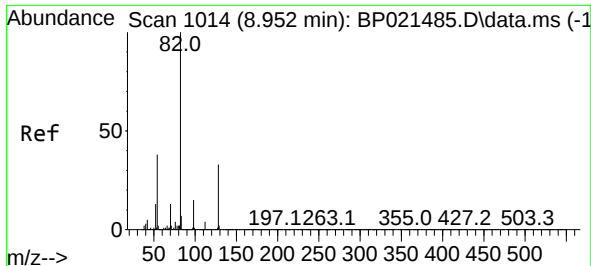
Tgt Ion: 99 Resp: 3224405  
Ion Ratio Lower Upper  
99 100  
42 12.2 10.2 15.4  
71 30.2 25.8 38.8



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.593 min Scan# 1293  
Delta R.T. -0.006 min  
Lab File: BP021554.D  
Acq: 19 Aug 2024 15:15

Tgt Ion: 136 Resp: 1641031  
Ion Ratio Lower Upper  
136 100  
137 10.8 8.8 13.2  
54 7.5 6.3 9.5  
68 7.0 6.8 10.2

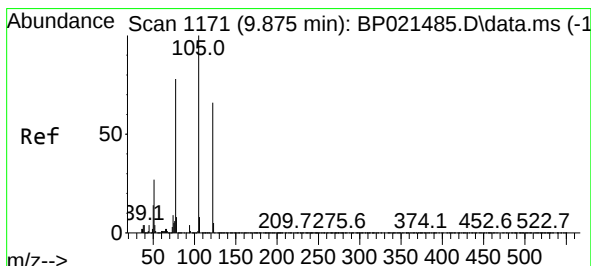
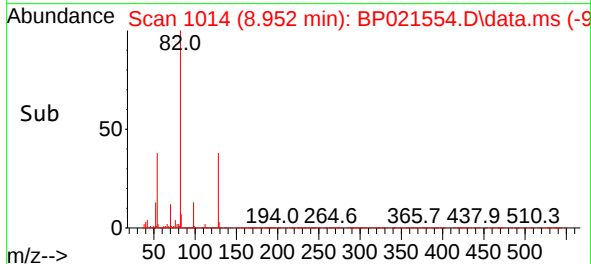
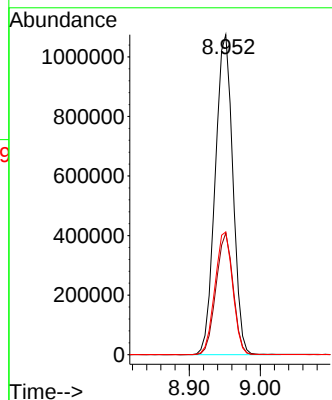
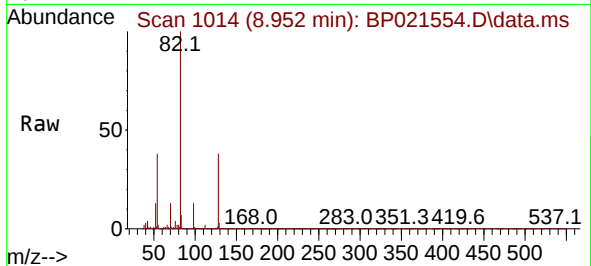




#23  
Nitrobenzene-d5  
Concen: 58.112 ng  
RT: 8.952 min Scan# 1168  
Delta R.T. -0.000 min  
Lab File: BP021554.D  
Acq: 19 Aug 2024 15:15

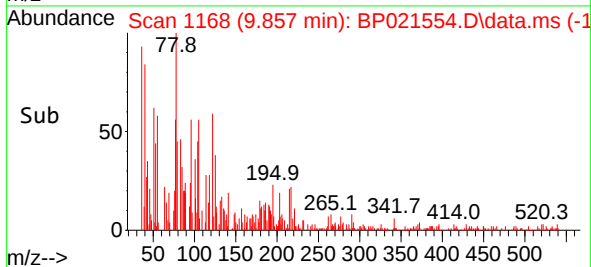
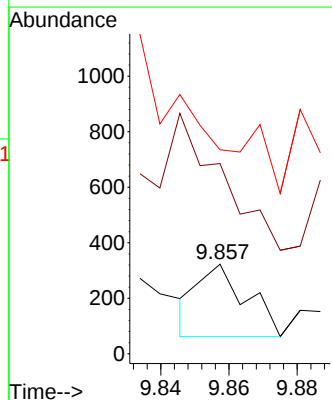
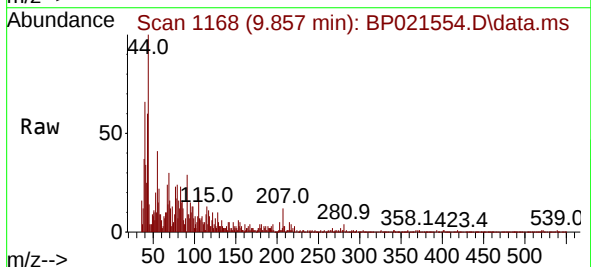
Instrument :  
BNA\_P  
ClientSampleId :  
OU4-TS-05-080724RE

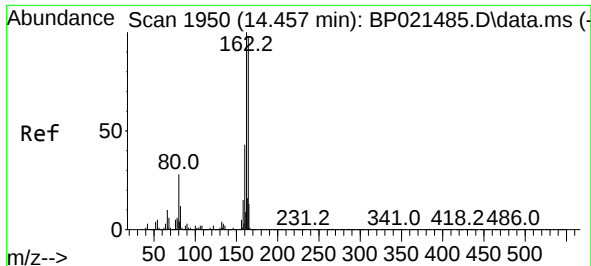
Tgt Ion: 82 Resp: 1847586  
Ion Ratio Lower Upper  
82 100  
128 38.0 26.5 39.7  
54 38.4 30.3 45.5



#32  
Benzoic acid  
Concen: 3.349 ng  
RT: 9.857 min Scan# 1168  
Delta R.T. -0.018 min  
Lab File: BP021554.D  
Acq: 19 Aug 2024 15:15

Tgt Ion:122 Resp: 259  
Ion Ratio Lower Upper  
122 100  
105 212.1 124.6 164.6#  
77 227.6 96.2 136.2#

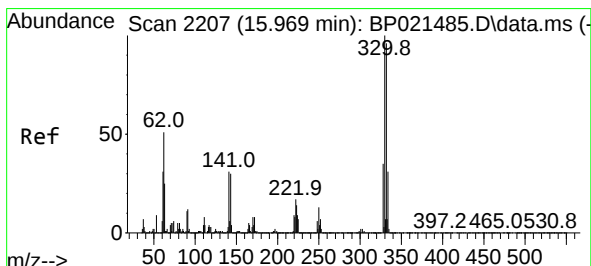
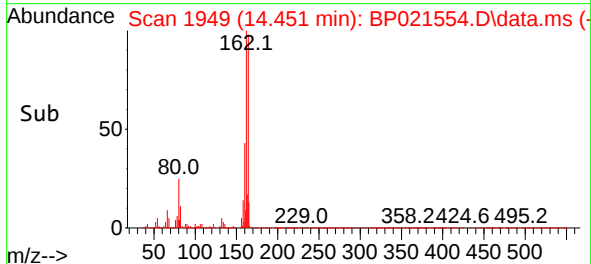
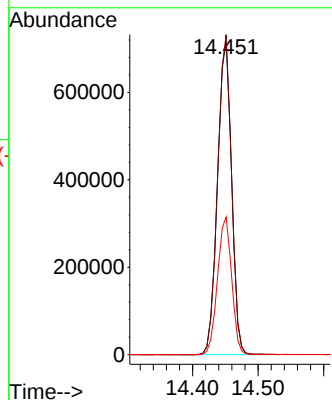
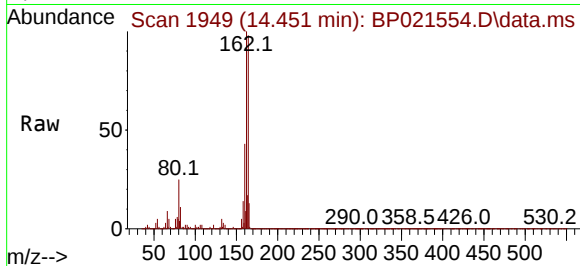




#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.451 min Scan# 1950  
Delta R.T. -0.006 min  
Lab File: BP021554.D  
Acq: 19 Aug 2024 15:15

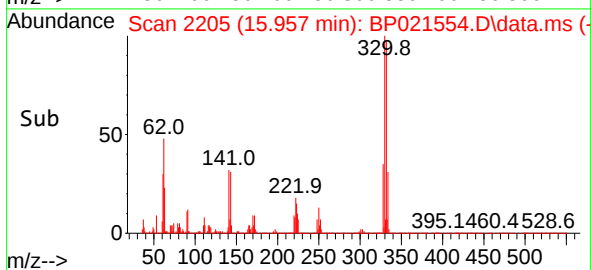
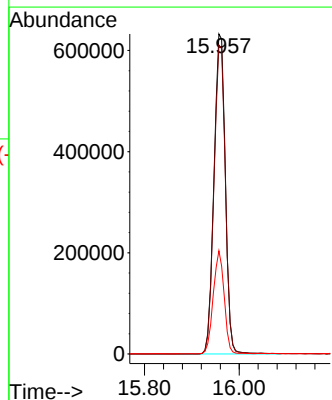
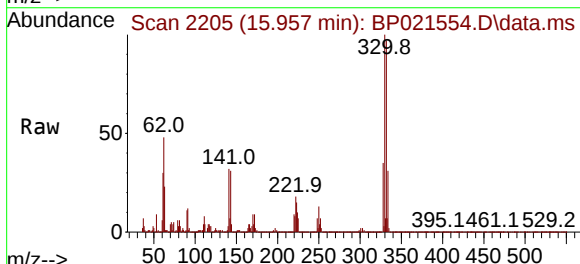
Instrument :  
BNA\_P  
ClientSampleId :  
OU4-TS-05-080724RE

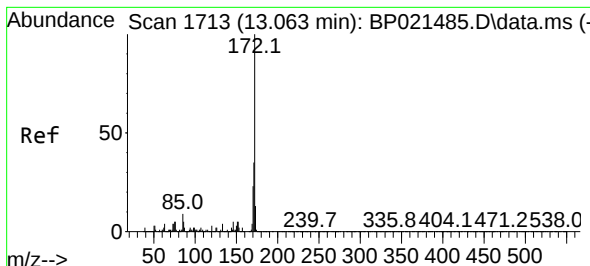
Tgt Ion:164 Resp: 1066429  
Ion Ratio Lower Upper  
164 100  
162 102.0 81.5 122.3  
160 43.9 35.2 52.8



#42  
2,4,6-Tribromophenol  
Concen: 88.705 ng  
RT: 15.957 min Scan# 2205  
Delta R.T. -0.012 min  
Lab File: BP021554.D  
Acq: 19 Aug 2024 15:15

Tgt Ion:330 Resp: 1052833  
Ion Ratio Lower Upper  
330 100  
332 97.0 77.4 116.0  
141 31.0 24.5 36.7





#45

2-Fluorobiphenyl

Concen: 38.806 ng

RT: 13.057 min Scan# 1

Delta R.T. -0.006 min

Lab File: BP021554.D

Acq: 19 Aug 2024 15:15

Instrument :

BNA\_P

ClientSampleId :

OU4-TS-05-080724RE

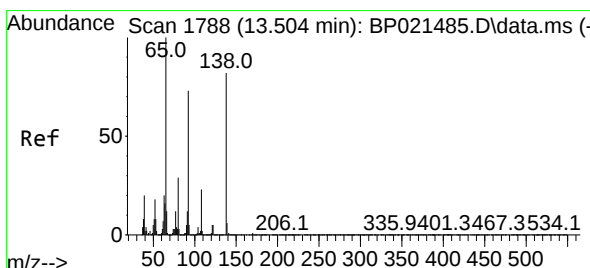
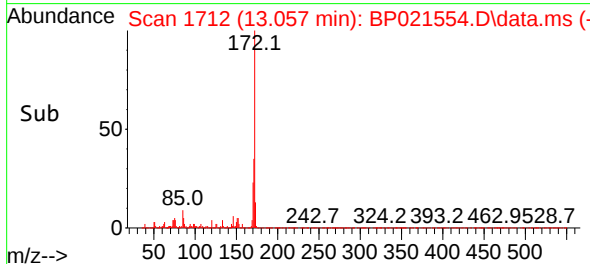
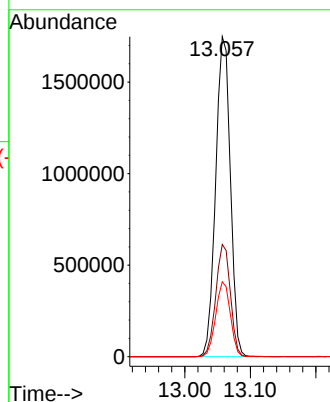
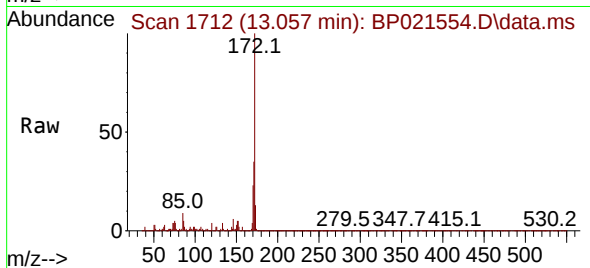
Tgt Ion:172 Resp: 2711670

Ion Ratio Lower Upper

172 100

171 35.1 28.2 42.4

170 23.4 18.4 27.6



#48

2-Nitroaniline

Concen: 5.160 ng

RT: 13.487 min Scan# 1785

Delta R.T. -0.017 min

Lab File: BP021554.D

Acq: 19 Aug 2024 15:15

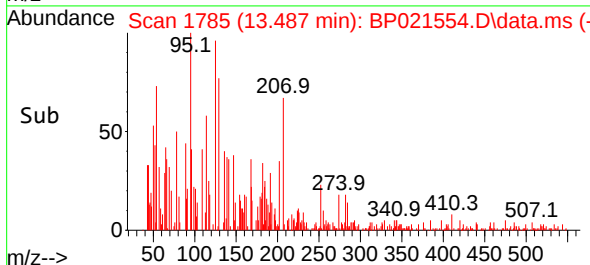
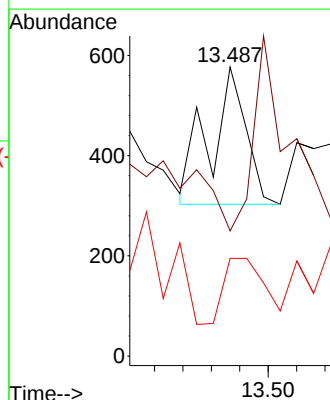
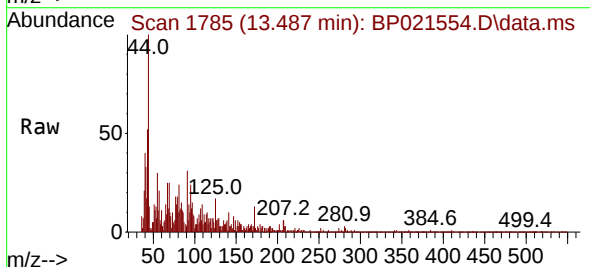
Tgt Ion: 65 Resp: 242

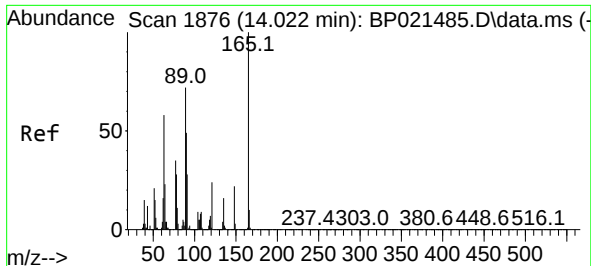
Ion Ratio Lower Upper

65 100

92 43.3 58.1 87.1#

138 33.8 65.5 98.3#

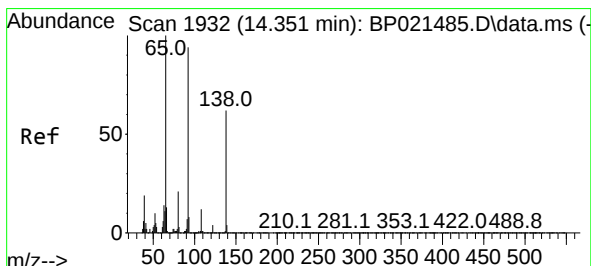
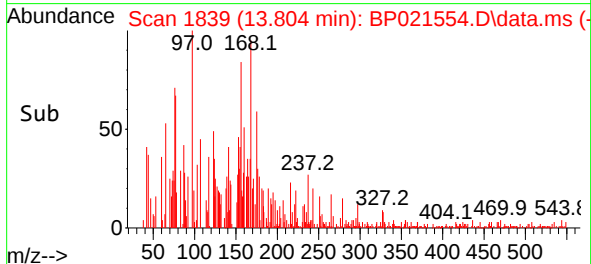
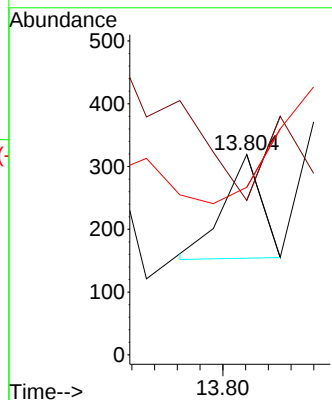
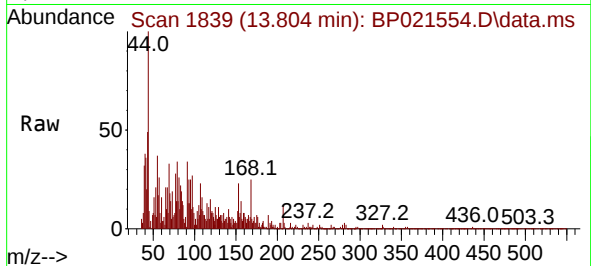




#51  
2,6-Dinitrotoluene  
Concen: 3.990 ng  
RT: 13.804 min Scan# 1839  
Delta R.T. -0.218 min  
Lab File: BP021554.D  
Acq: 19 Aug 2024 15:15

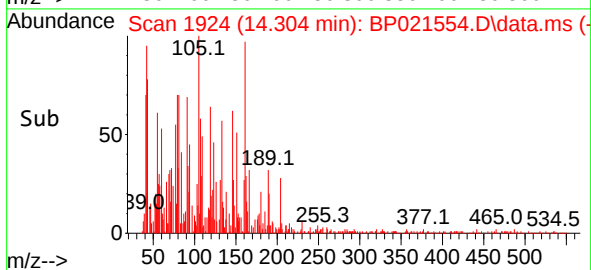
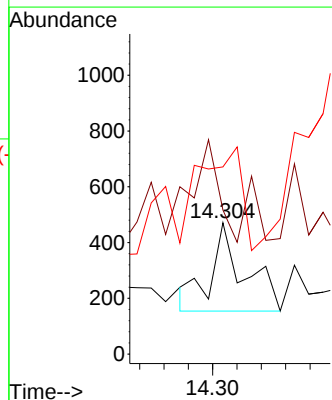
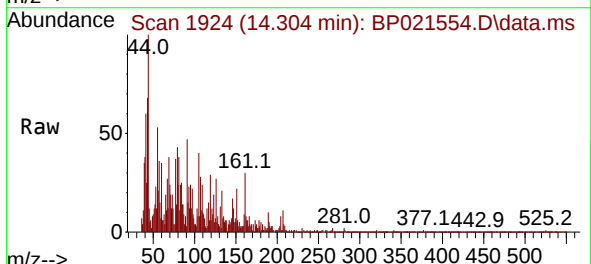
Instrument :  
BNA\_P  
ClientSampleId :  
OU4-TS-05-080724RE

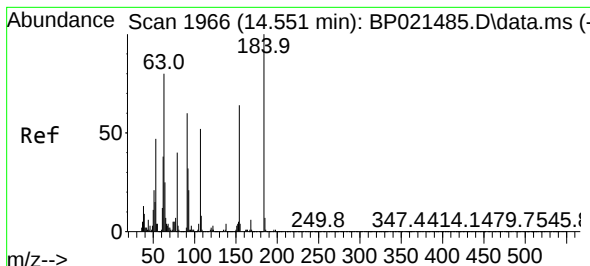
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:165 | Resp: | 76        |
| Ion Ratio   | Lower | Upper     |
| 165         | 100   |           |
| 63          | 77.1  | 51.5 77.3 |
| 89          | 83.7  | 57.8 86.8 |



#53  
3-Nitroaniline  
Concen: 3.989 ng  
RT: 14.304 min Scan# 1924  
Delta R.T. -0.047 min  
Lab File: BP021554.D  
Acq: 19 Aug 2024 15:15

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:138 | Resp: | 305         |
| Ion Ratio   | Lower | Upper       |
| 138         | 100   |             |
| 108         | 109.8 | 16.2 24.4#  |
| 92          | 142.5 | 122.2 183.4 |





#54

2,4-Dinitrophenol

Concen: 2.510 ng

RT: 14.551 min Scan# 1966

Delta R.T. 0.000 min

Lab File: BP021554.D

Acq: 19 Aug 2024 15:15

Instrument :

BNA\_P

ClientSampleId :

OU4-TS-05-080724RE

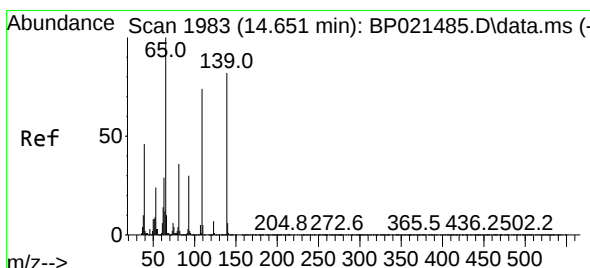
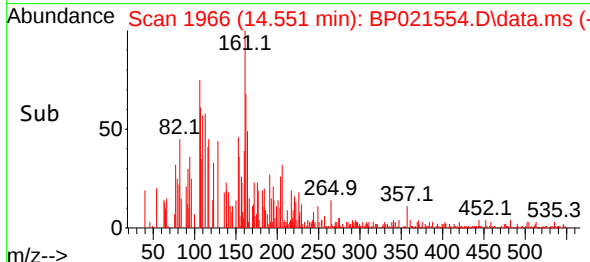
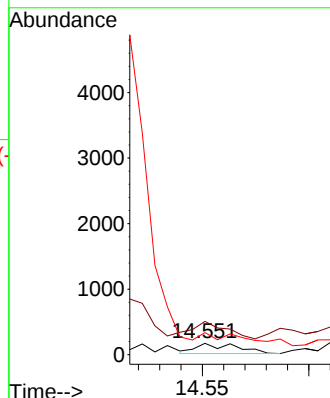
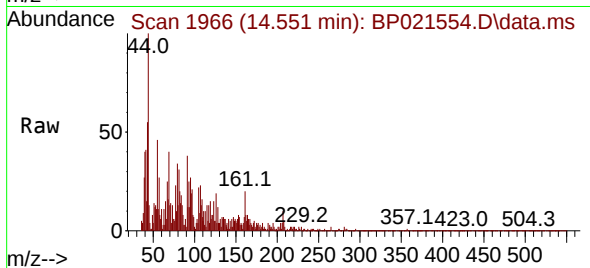
Tgt Ion:184 Resp: 209

Ion Ratio Lower Upper

184 100

63 292.5 64.9 97.3#

154 193.7 52.1 78.1#



#56

4-Nitrophenol

Concen: 5.176 ng

RT: 14.581 min Scan# 1971

Delta R.T. -0.070 min

Lab File: BP021554.D

Acq: 19 Aug 2024 15:15

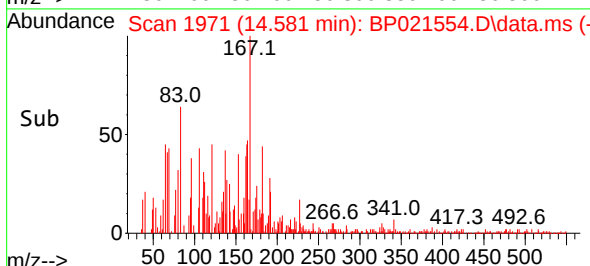
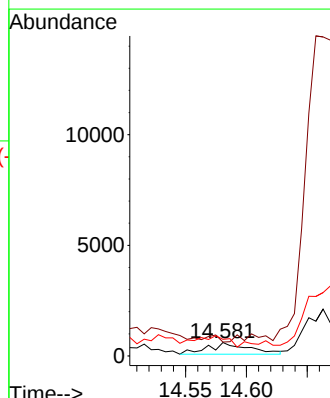
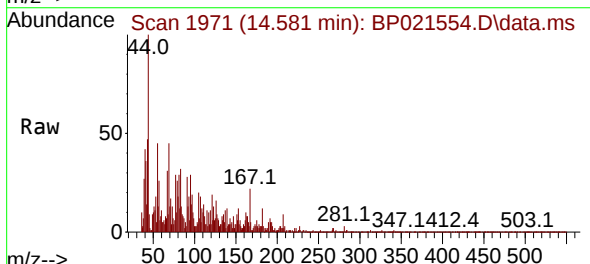
Tgt Ion:139 Resp: 1231

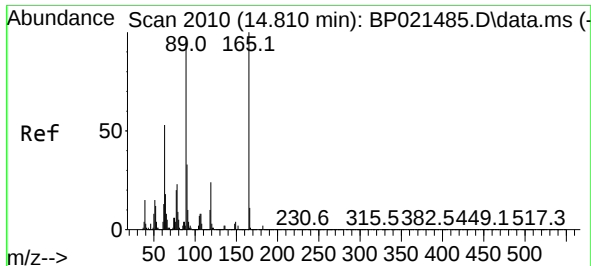
Ion Ratio Lower Upper

139 100

109 103.1 70.2 110.2

65 123.3 101.8 141.8

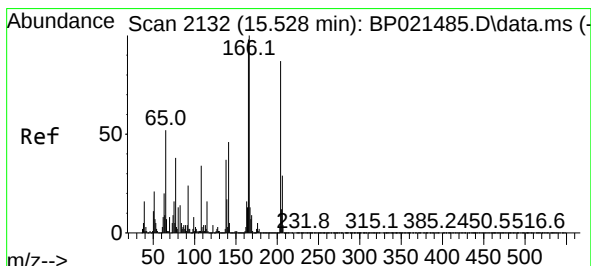
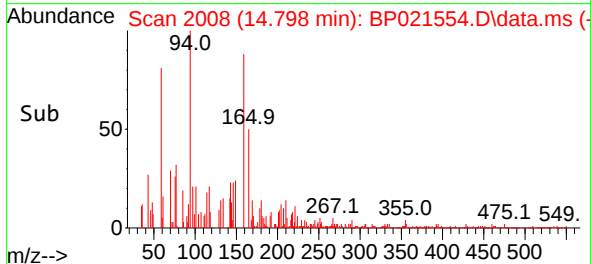
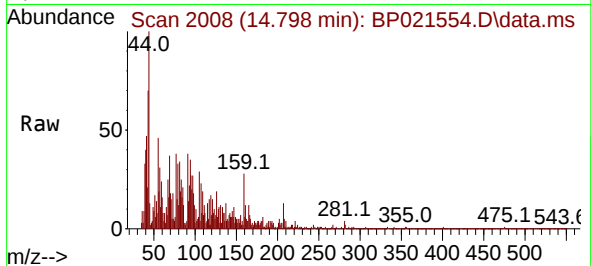




#57  
2,4-Dinitrotoluene  
Concen: 5.034 ng  
RT: 14.798 min Scan# 2010  
Delta R.T. -0.012 min  
Lab File: BP021554.D  
Acq: 19 Aug 2024 15:15

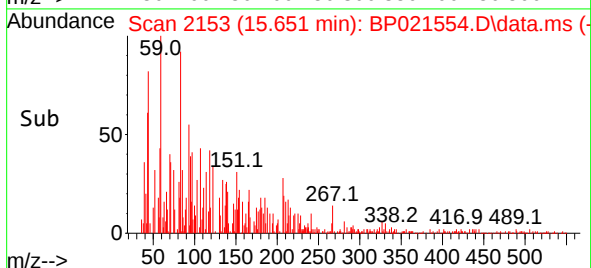
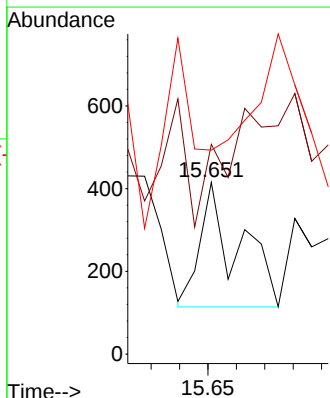
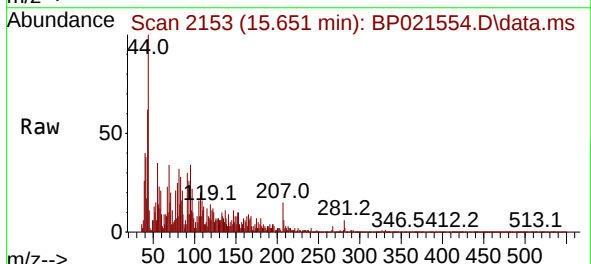
Instrument :  
BNA\_P  
ClientSampleId :  
OU4-TS-05-080724RE

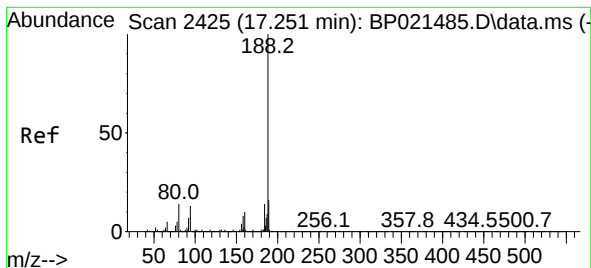
Tgt Ion:165 Resp: 229  
Ion Ratio Lower Upper  
165 100  
63 62.6 42.5 63.7  
89 27.9 77.1 115.7#  
182 45.4 2.0 3.0#



#62  
4-Nitroaniline  
Concen: 2.953 ng  
RT: 15.651 min Scan# 2153  
Delta R.T. 0.123 min  
Lab File: BP021554.D  
Acq: 19 Aug 2024 15:15

Tgt Ion:138 Resp: 280  
Ion Ratio Lower Upper  
138 100  
92 76.9 46.4 86.4  
108 74.8 73.2 113.2





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.251 min Scan# 2425

Delta R.T. -0.000 min

Lab File: BP021554.D

Acq: 19 Aug 2024 15:15

Instrument :

BNA\_P

ClientSampleId :

OU4-TS-05-080724RE

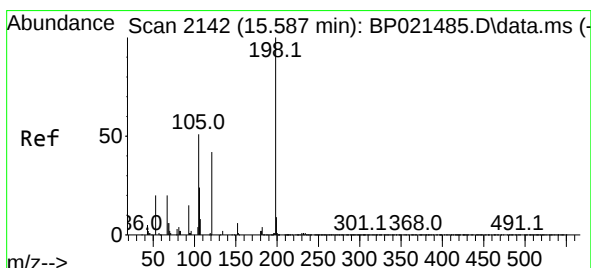
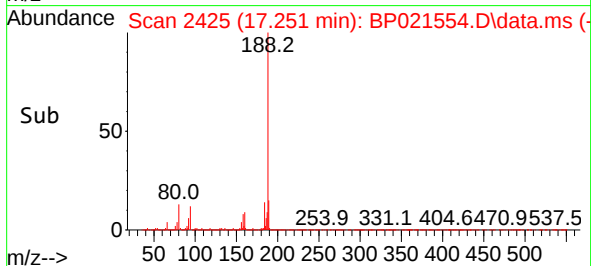
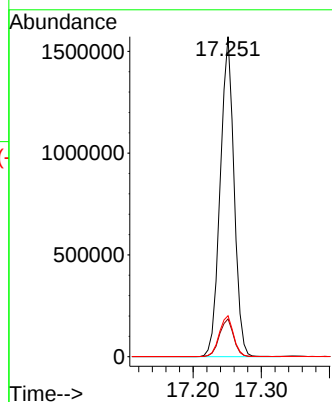
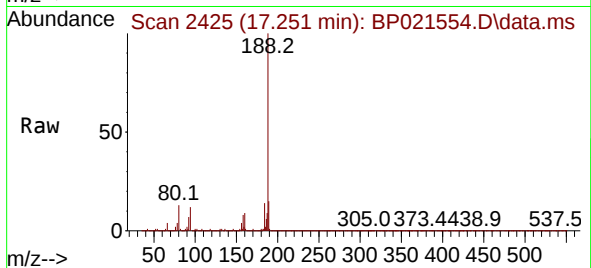
Tgt Ion:188 Resp: 2220298

Ion Ratio Lower Upper

188 100

94 11.8 10.2 15.4

80 12.8 11.6 17.4



#65

4,6-Dinitro-2-methylphenol

Concen: 4.632 ng

RT: 15.586 min Scan# 2142

Delta R.T. -0.001 min

Lab File: BP021554.D

Acq: 19 Aug 2024 15:15

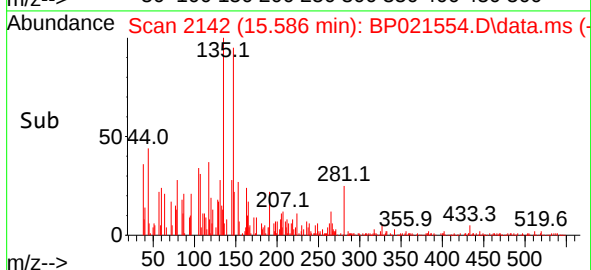
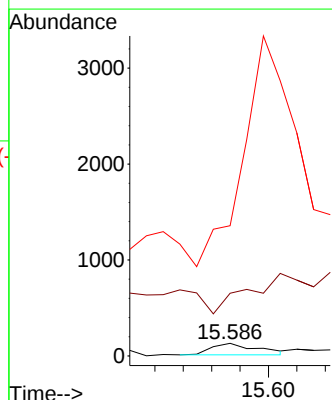
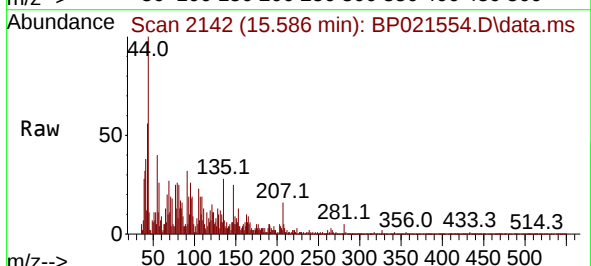
Tgt Ion:198 Resp: 135

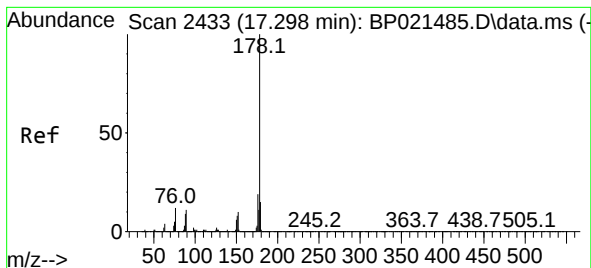
Ion Ratio Lower Upper

198 100

51 499.2 21.5 61.5#

105 1035.9 32.9 72.9#





#71

Phenanthrene

Concen: 2.420 ng

RT: 17.292 min Scan# 2433

Delta R.T. -0.006 min

Lab File: BP021554.D

Acq: 19 Aug 2024 15:15

Instrument :

BNA\_P

ClientSampleId :

OU4-TS-05-080724RE

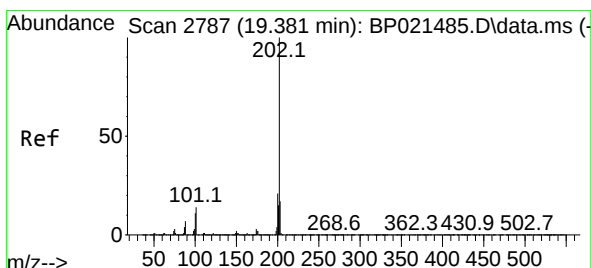
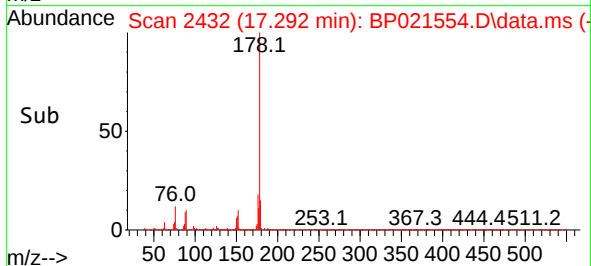
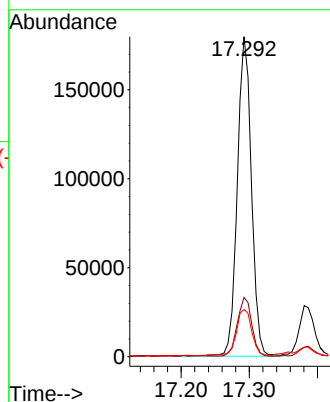
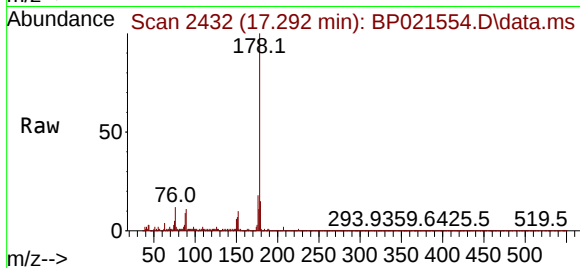
Tgt Ion:178 Resp: 258450

Ion Ratio Lower Upper

178 100

176 18.5 15.4 23.2

179 14.8 12.4 18.6



#75

Fluoranthene

Concen: 5.100 ng

RT: 19.375 min Scan# 2786

Delta R.T. -0.006 min

Lab File: BP021554.D

Acq: 19 Aug 2024 15:15

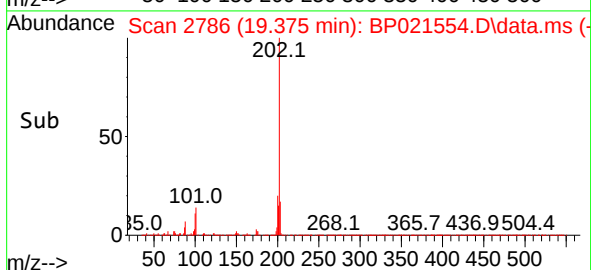
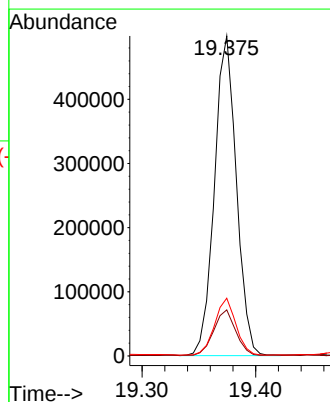
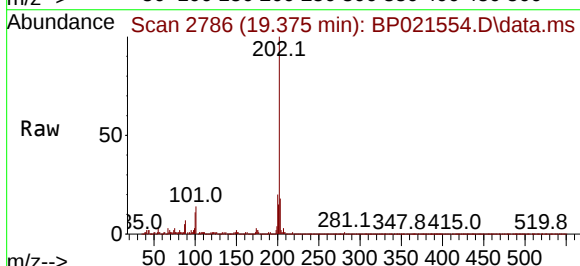
Tgt Ion:202 Resp: 668199

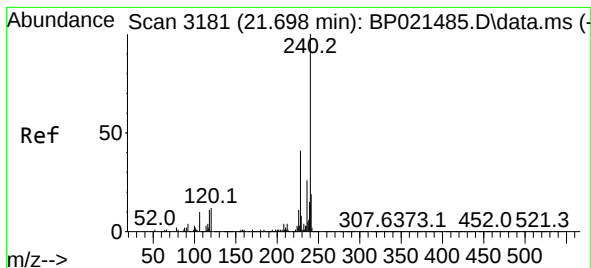
Ion Ratio Lower Upper

202 100

101 14.4 0.0 34.0

203 18.1 0.0 37.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.704 min Scan# 31

Delta R.T. 0.006 min

Lab File: BP021554.D

Acq: 19 Aug 2024 15:15

Instrument :

BNA\_P

ClientSampleId :

OU4-TS-05-080724RE

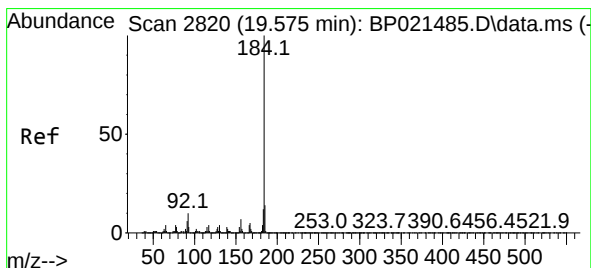
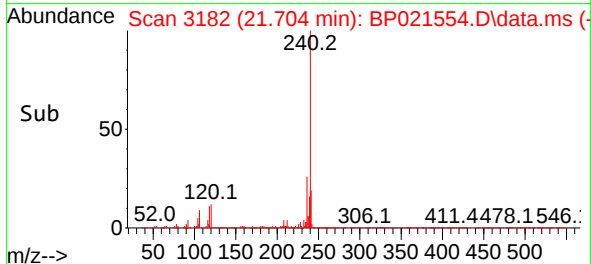
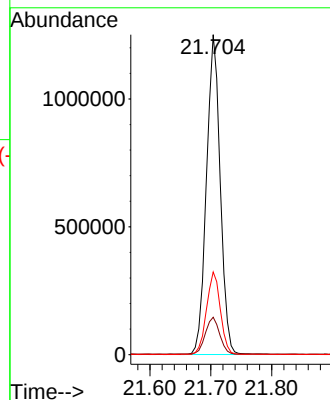
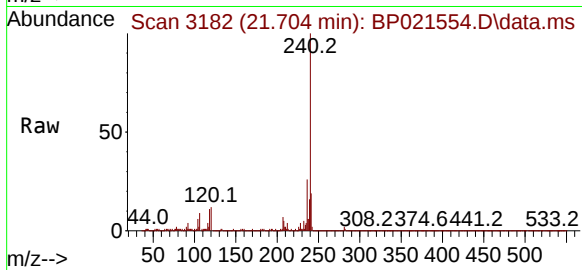
Tgt Ion:240 Resp: 1966852

Ion Ratio Lower Upper

240 100

120 11.7 9.9 14.9

236 25.9 20.6 30.8



#77

Benzidine

Concen: 4.578 ng

RT: 19.563 min Scan# 2818

Delta R.T. -0.012 min

Lab File: BP021554.D

Acq: 19 Aug 2024 15:15

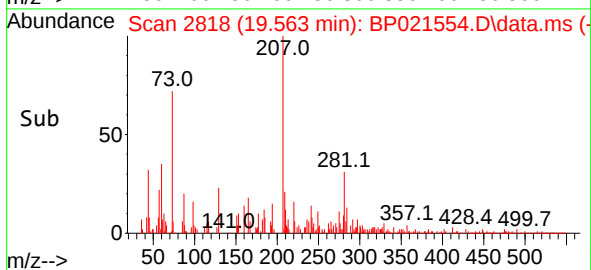
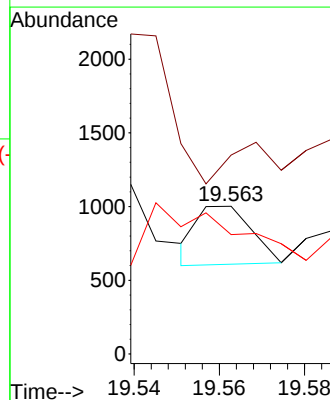
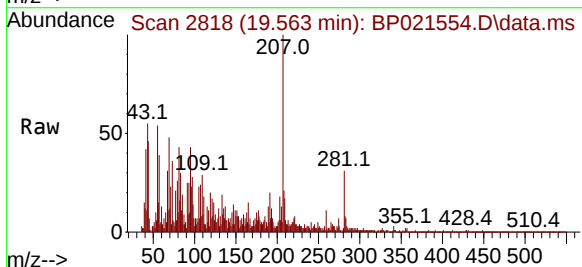
Tgt Ion:184 Resp: 351

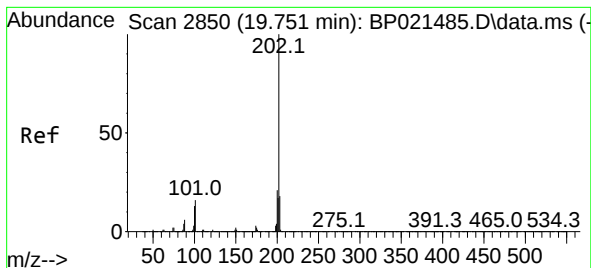
Ion Ratio Lower Upper

184 100

185 134.6 11.4 17.0#

183 80.8 9.3 13.9#





#78

Pyrene

Concen: 4.855 ng

RT: 19.745 min Scan# 2849

Delta R.T. -0.006 min

Lab File: BP021554.D

Acq: 19 Aug 2024 15:15

Instrument :

BNA\_P

ClientSampleId :

OU4-TS-05-080724RE

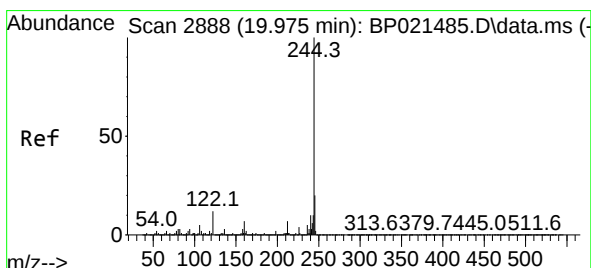
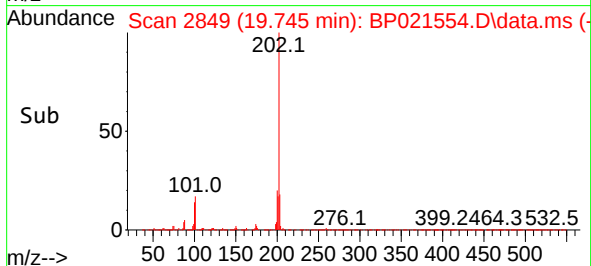
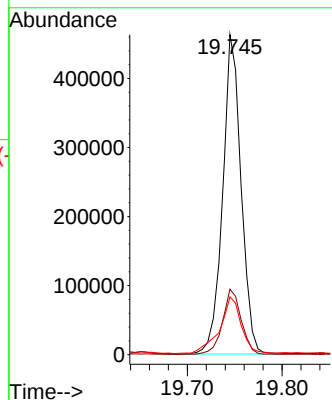
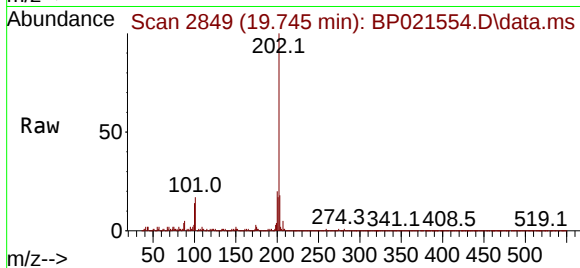
Tgt Ion:202 Resp: 624189

Ion Ratio Lower Upper

202 100

200 20.4 16.7 25.1

203 18.1 14.1 21.1



#79

Terphenyl-d14

Concen: 40.593 ng

RT: 19.969 min Scan# 2887

Delta R.T. -0.006 min

Lab File: BP021554.D

Acq: 19 Aug 2024 15:15

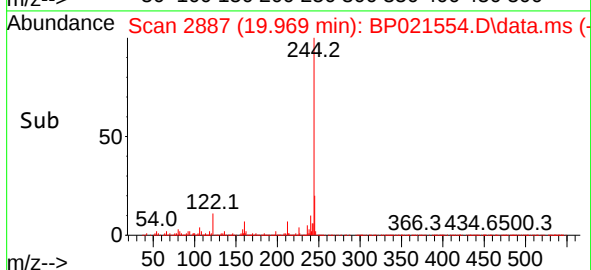
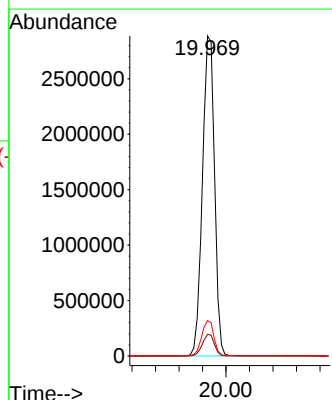
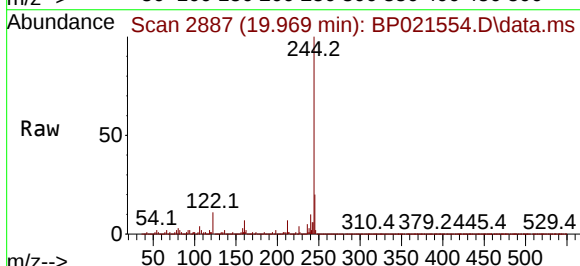
Tgt Ion:244 Resp: 4109722

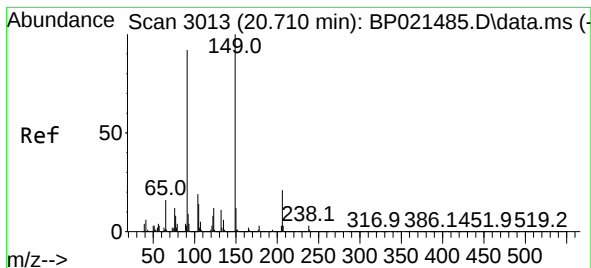
Ion Ratio Lower Upper

244 100

212 6.8 5.6 8.4

122 11.0 9.4 14.2





#80

Butylbenzylphthalate

Concen: 3.717 ng

RT: 20.716 min Scan# 3013

Delta R.T. 0.006 min

Lab File: BP021554.D

Acq: 19 Aug 2024 15:15

Instrument :

BNA\_P

ClientSampleId :

OU4-TS-05-080724RE

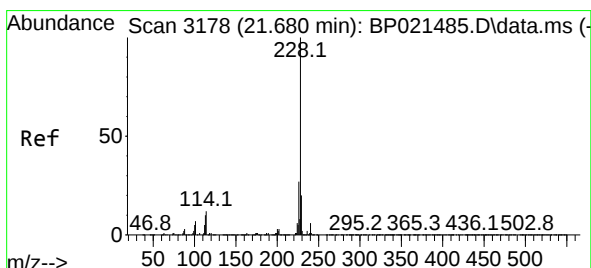
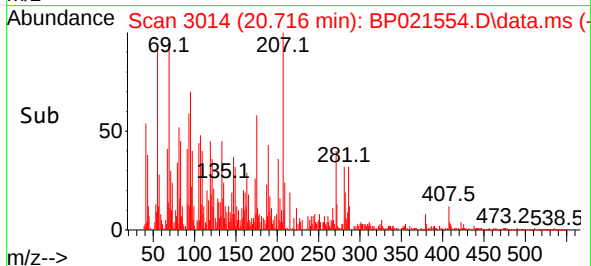
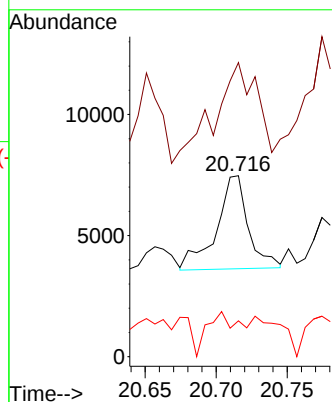
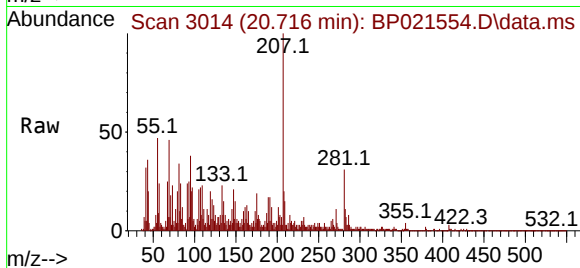
Tgt Ion:149 Resp: 6032

Ion Ratio Lower Upper

149 100

91 162.5 73.3 109.9#

206 19.8 17.1 25.7



#81

Benzo(a)anthracene

Concen: 2.333 ng

RT: 21.686 min Scan# 3179

Delta R.T. 0.006 min

Lab File: BP021554.D

Acq: 19 Aug 2024 15:15

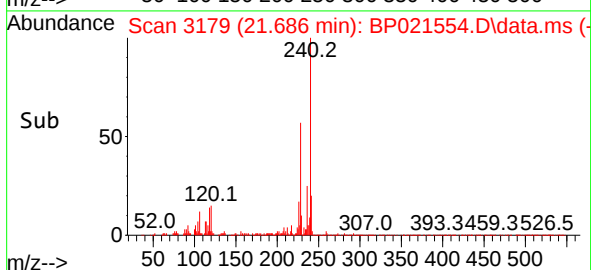
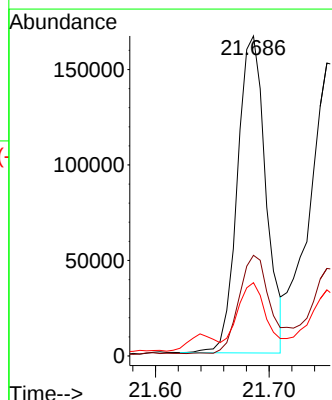
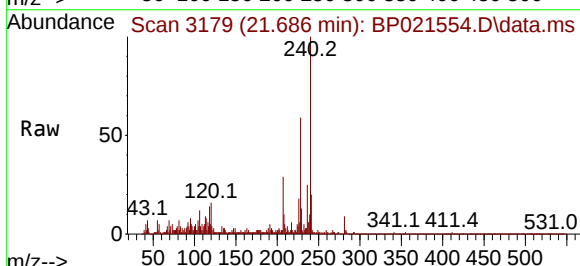
Tgt Ion:228 Resp: 288032

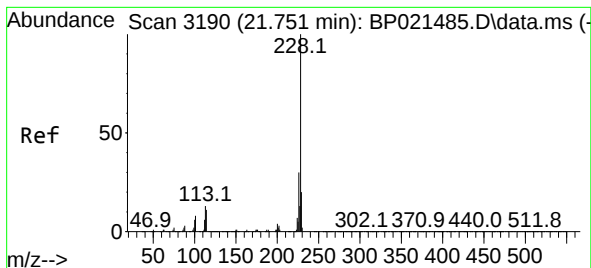
Ion Ratio Lower Upper

228 100

226 31.4 21.4 32.2

229 22.9 15.8 23.6





#83

Chrysene

Concen: 2.697 ng

RT: 21.751 min Scan# 3190

Delta R.T. -0.000 min

Lab File: BP021554.D

Acq: 19 Aug 2024 15:15

Instrument :

BNA\_P

ClientSampleId :

OU4-TS-05-080724RE

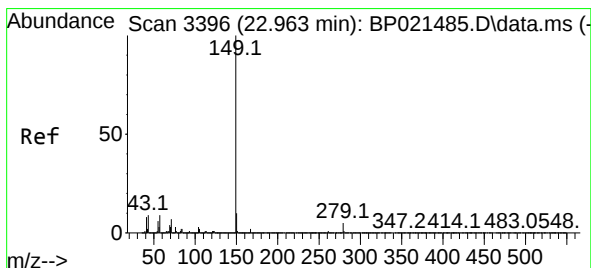
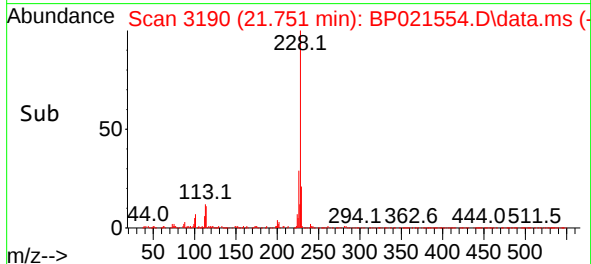
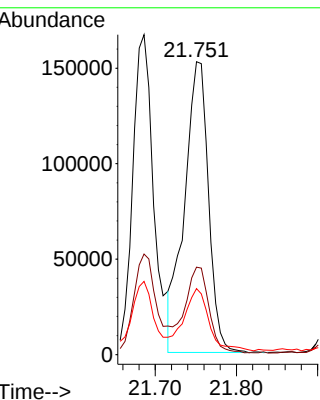
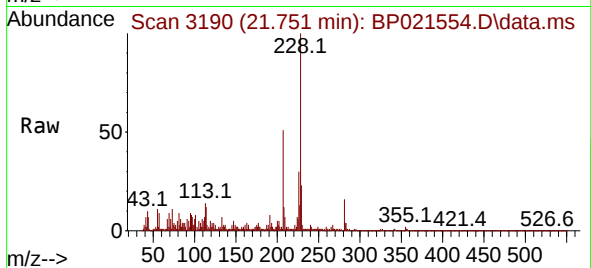
Tgt Ion:228 Resp: 314430

Ion Ratio Lower Upper

228 100

226 29.9 23.9 35.9

229 22.5 15.8 23.6



#85

Di-n-octyl phthalate

Concen: 4.854 ng

RT: 22.957 min Scan# 3395

Delta R.T. -0.006 min

Lab File: BP021554.D

Acq: 19 Aug 2024 15:15

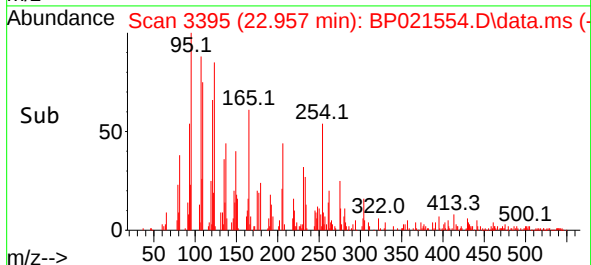
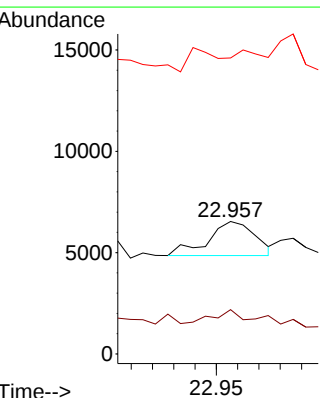
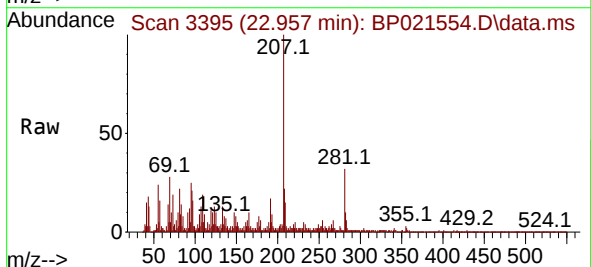
Tgt Ion:149 Resp: 2586

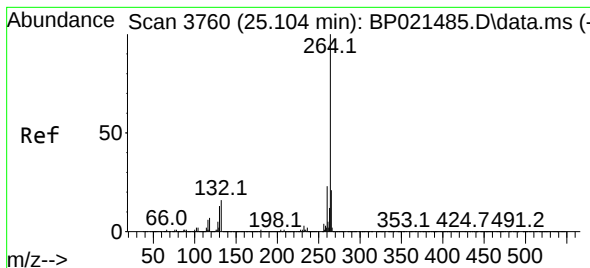
Ion Ratio Lower Upper

149 100

167 50.7 1.3 1.9#

43 0.0 7.3 10.9#





#86

Perylene-d12

Concen: 20.000 ng

RT: 25.145 min Scan# 31

Delta R.T. 0.041 min

Lab File: BP021554.D

Acq: 19 Aug 2024 15:15

Instrument :

BNA\_P

ClientSampleId :

OU4-TS-05-080724RE

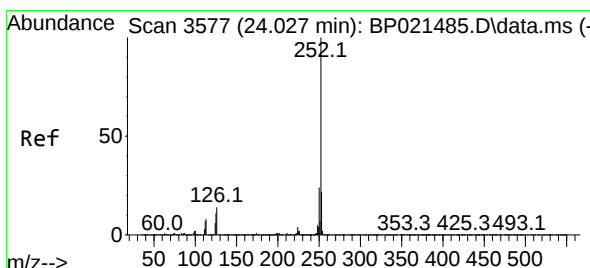
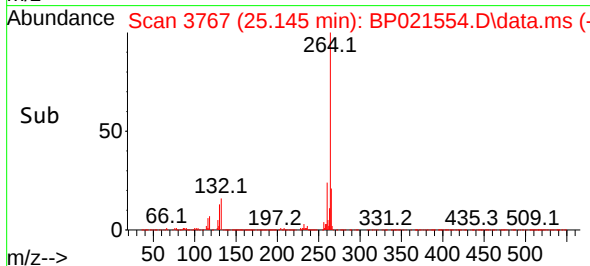
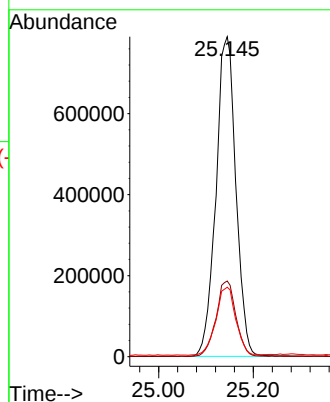
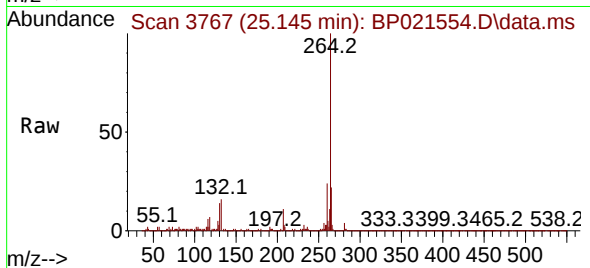
Tgt Ion:264 Resp: 2303251

Ion Ratio Lower Upper

264 100

260 23.7 18.6 28.0

265 21.7 17.1 25.7



#88

Benzo(b)fluoranthene

Concen: 3.443 ng

RT: 24.062 min Scan# 3583

Delta R.T. 0.035 min

Lab File: BP021554.D

Acq: 19 Aug 2024 15:15

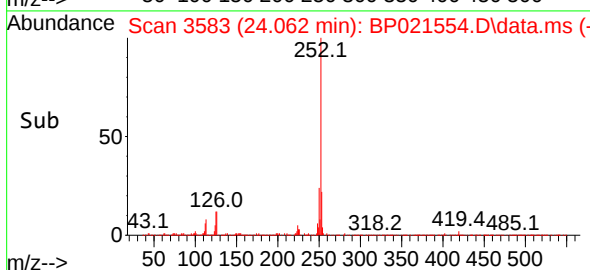
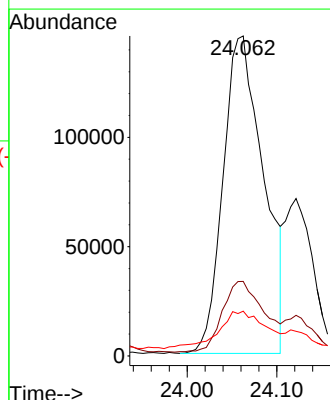
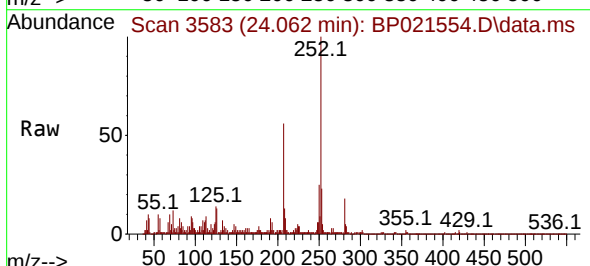
Tgt Ion:252 Resp: 455483

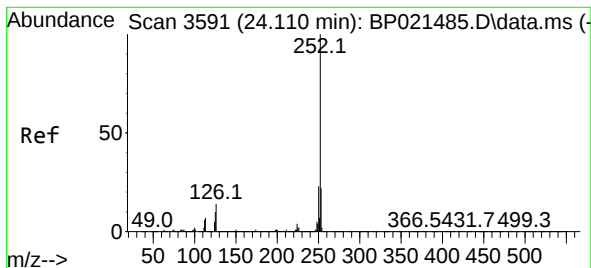
Ion Ratio Lower Upper

252 100

253 23.3 17.6 26.4

125 14.0 8.6 13.0#





#89

Benzo(k)fluoranthene

Concen: 3.530 ng

RT: 24.062 min Scan# 31

Delta R.T. -0.047 min

Lab File: BP021554.D

Acq: 19 Aug 2024 15:15

Instrument :

BNA\_P

ClientSampleId :

OU4-TS-05-080724RE

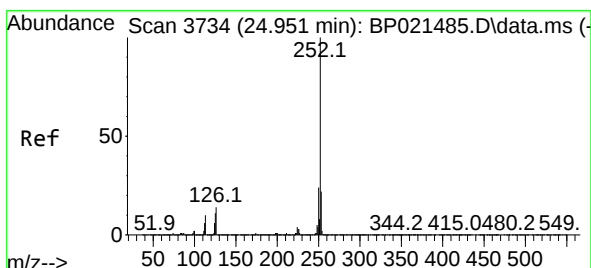
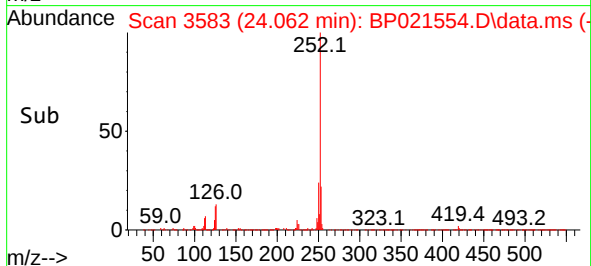
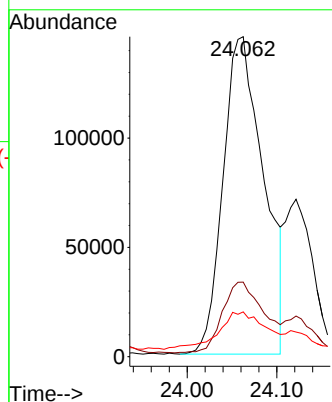
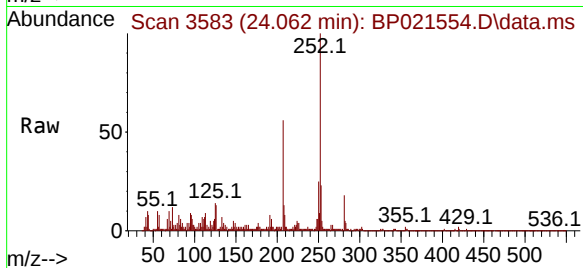
Tgt Ion:252 Resp: 455483

Ion Ratio Lower Upper

252 100

253 23.3 17.5 26.3

125 14.0 7.8 11.8#



#90

Benzo(a)pyrene

Concen: 2.624 ng

RT: 24.980 min Scan# 3739

Delta R.T. 0.029 min

Lab File: BP021554.D

Acq: 19 Aug 2024 15:15

Tgt Ion:252 Resp: 301205

Ion Ratio Lower Upper

252 100

253 23.8 17.7 26.5

125 14.4 8.7 13.1#

