

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF121620\  
 Data File : BF122746.D  
 Acq On : 16 Dec 2020 13:05  
 Operator : JU/CG  
 Sample : L5091-01  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CHRT-20057

Manual Integrations  
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Quant Time: Dec 16 13:50:21 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF120520.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Dec 15 18:14:23 2020  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|--------|------|----------|-------|-------|----------|
| -----                       |        |      |          |       |       |          |
| Internal Standards          |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.816  | 152  | 217418   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.098  | 136  | 870302   | 20.00 | ng    | -0.01    |
| 39) Acenaphthene-d10        | 9.857  | 164  | 464884   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.339 | 188  | 822995   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12            | 13.980 | 240  | 592643   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12            | 15.439 | 264  | 537591   | 20.00 | ng    | 0.00     |
|                             |        |      |          |       |       |          |
| System Monitoring Compounds |        |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.445  | 112  | 1371278  | 99.85 | ng    | 0.01     |
| 7) Phenol-d6                | 6.451  | 99   | 1782179  | 97.85 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.381  | 82   | 1137127  | 65.46 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.645 | 330  | 573892   | 94.31 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.181  | 172  | 1999315  | 58.17 | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.933 | 244  | 2008333  | 59.32 | ng    | 0.00     |
|                             |        |      |          |       |       |          |
| Target Compounds            |        |      |          |       |       | Qvalue   |
| 10) Phenol                  | 6.463  | 94   | 49280    | 2.61  | ng    | 85       |
| 50) Dimethylphthalate       | 9.569  | 163  | 209645   | 5.65  | ng    | 99       |
| 71) Phenanthrene            | 11.363 | 178  | 639049   | 13.07 | ng    | 99       |
| 72) Anthracene              | 11.416 | 178  | 127227   | 2.62  | ng    | 97       |
| 75) Fluoranthene            | 12.557 | 202  | 953478   | 18.59 | ng    | 99       |
| 78) Pyrene                  | 12.786 | 202  | 960841   | 20.97 | ng    | 100      |
| 81) Benzo(a)anthracene      | 13.974 | 228  | 457218   | 11.54 | ng    | 99       |
| 83) Chrysene                | 14.010 | 228  | 469766   | 11.92 | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene  | 16.874 | 276  | 189018   | 5.36  | ng    | 96       |
| 88) Benzo(b)fluoranthene    | 15.015 | 252  | 466566m  | 12.37 | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.039 | 252  | 152910m  | 4.43  | ng    |          |
| 90) Benzo(a)pyrene          | 15.374 | 252  | 316832   | 9.60  | ng    | 99       |
| 91) Dibenzo(a,h)anthracene  | 16.880 | 278  | 61966m   | 2.15  | ng    |          |
| 92) Benzo(g,h,i)perylene    | 17.309 | 276  | 187350   | 6.70  | ng    | 99       |
| -----                       |        |      |          |       |       |          |

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

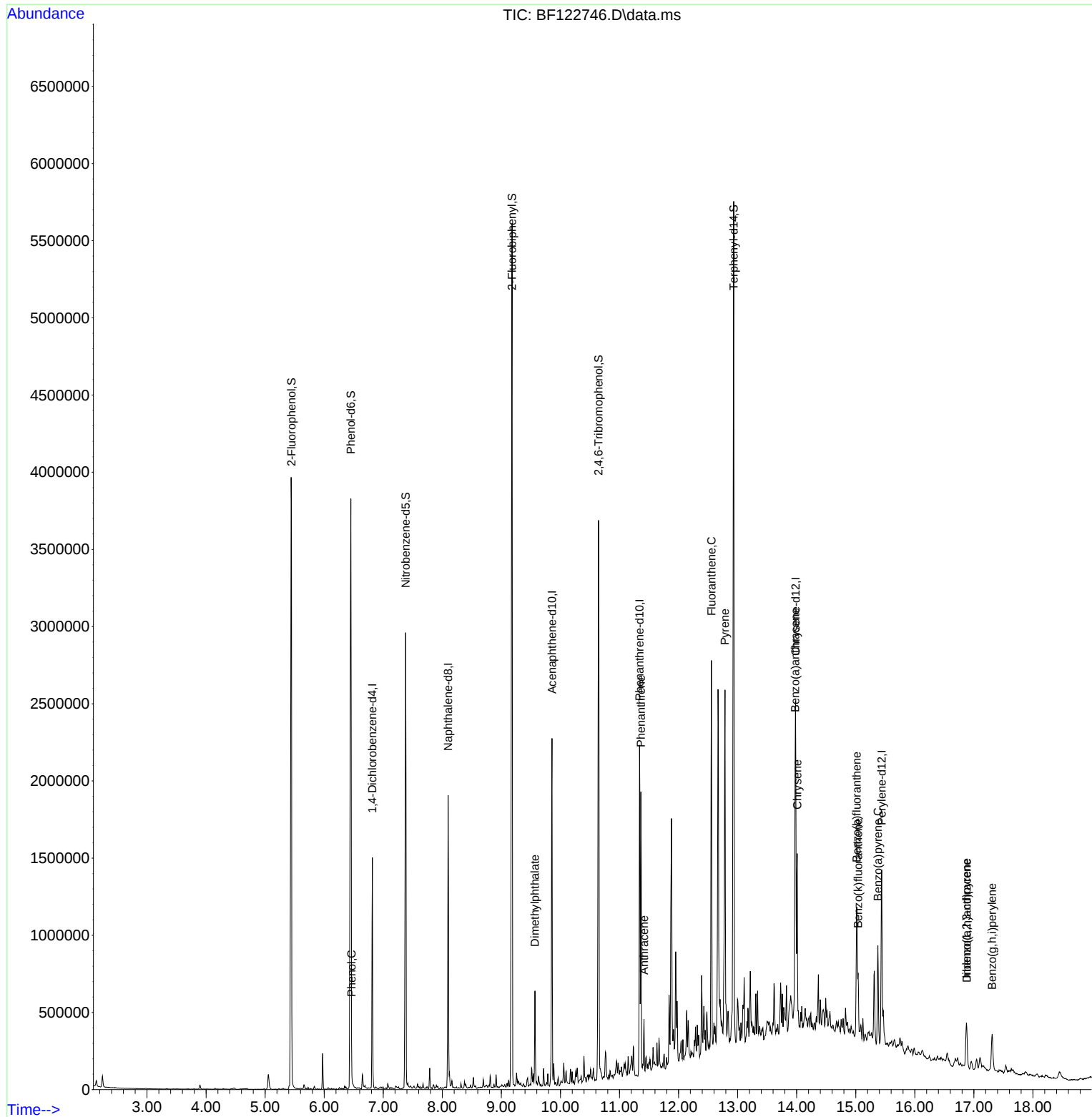
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF121620\  
Data File : BF122746.D  
Acq On : 16 Dec 2020 13:05  
Operator : JU/CG  
Sample : L5091-01  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
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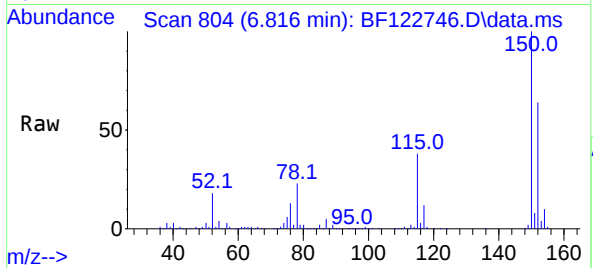
mohammad  
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Quant Time: Dec 16 13:50:21 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF120520.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Dec 15 18:14:23 2020  
Response via : Initial Calibration

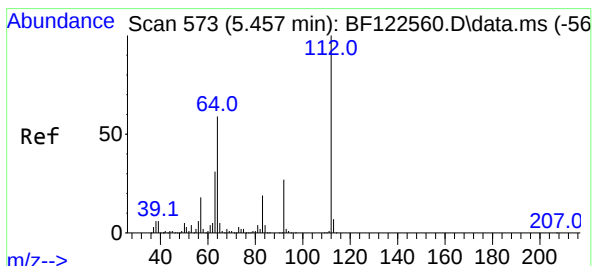
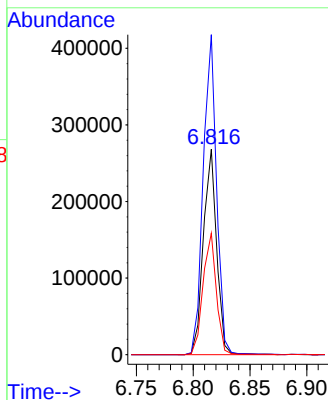
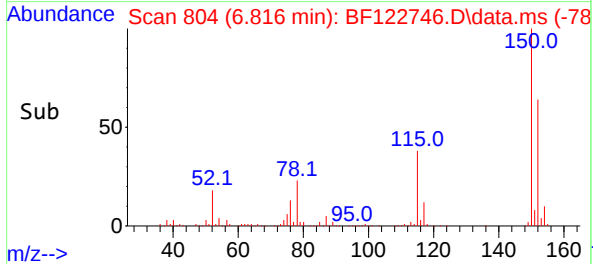




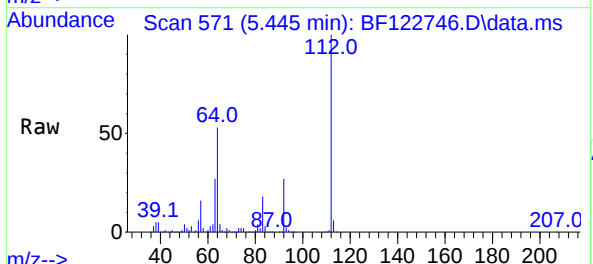
#1  
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.816 min Scan# 804  
Delta R.T. -0.006 min  
Lab File: BF122746.D  
Acq: 16 Dec 2020 13:05



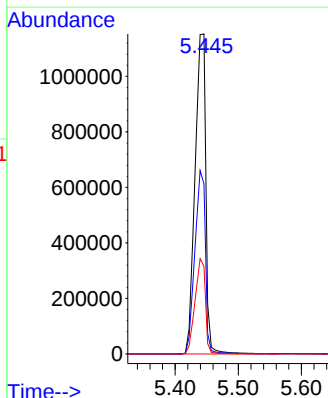
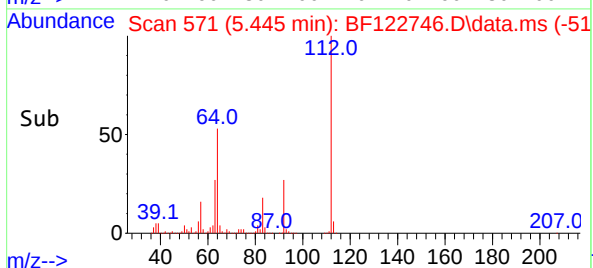
Tgt Ion:152 Resp: 217418  
Ion Ratio Lower Upper  
152 100  
150 155.7 125.8 188.6  
115 59.1 49.3 73.9



#5  
2-Fluorophenol  
Concen: 99.85 ng  
RT: 5.445 min Scan# 571  
Delta R.T. 0.012 min  
Lab File: BF122746.D  
Acq: 16 Dec 2020 13:05



Tgt Ion:112 Resp: 1371278  
Ion Ratio Lower Upper  
112 100  
64 53.1 46.9 70.3  
63 27.4 24.5 36.7



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#7  
Phenol-d6  
Concen: 97.85 ng  
RT: 6.451 min Scan# 742  
Delta R.T. -0.006 min  
Lab File: BF122746.D  
Acq: 16 Dec 2020 13:05

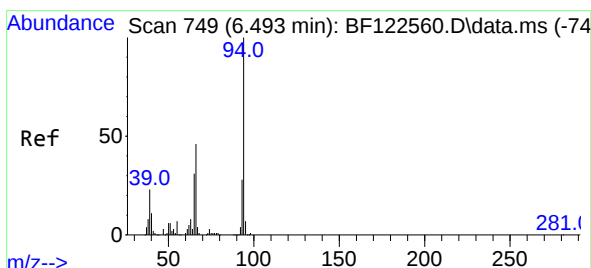
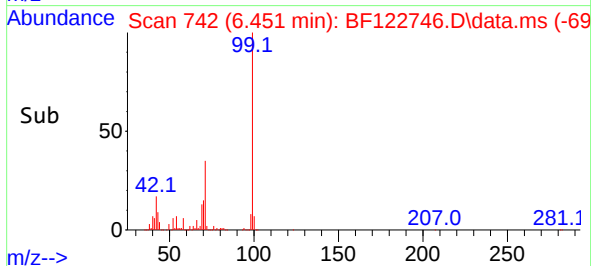
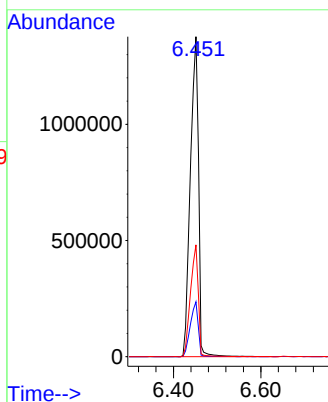
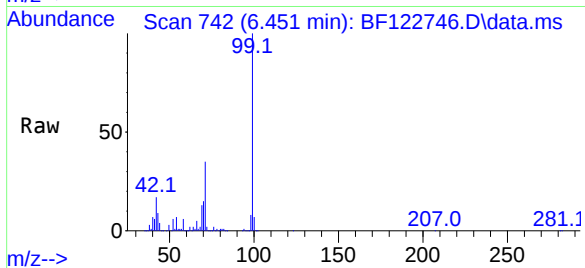
Tgt Ion: 99 Resp: 1782179

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 17.2  | 13.8  | 20.6  |
| 71  | 34.9  | 26.9  | 40.3  |

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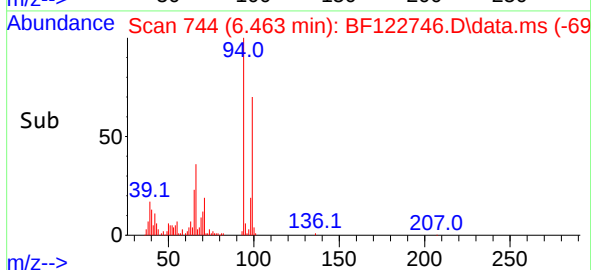
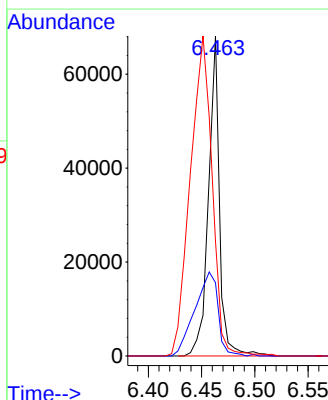
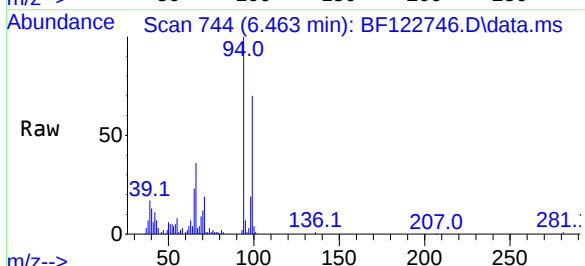
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#10  
Phenol  
Concen: 2.61 ng  
RT: 6.463 min Scan# 744  
Delta R.T. -0.006 min  
Lab File: BF122746.D  
Acq: 16 Dec 2020 13:05

Tgt Ion: 94 Resp: 49280

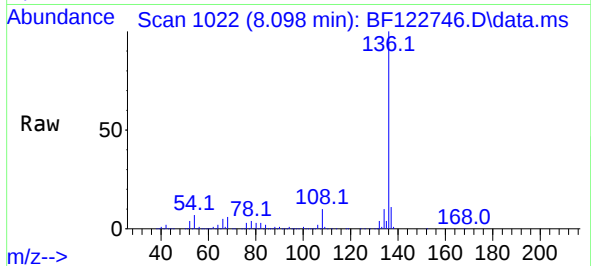
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 94  | 100   |       |       |
| 65  | 22.9  | 11.2  | 51.2  |
| 66  | 35.9  | 25.8  | 65.8  |





#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.098 min Scan# 1022  
Delta R.T. -0.012 min  
Lab File: BF122746.D  
Acq: 16 Dec 2020 13:05

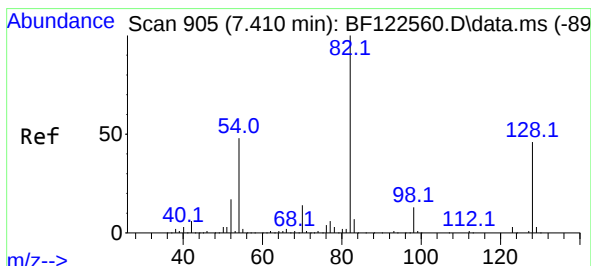
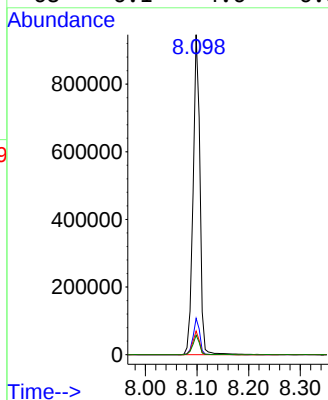
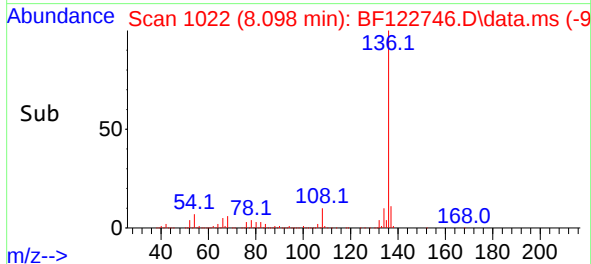
Instrument :  
BNA\_F  
ClientSampleId :  
CHRT-20057



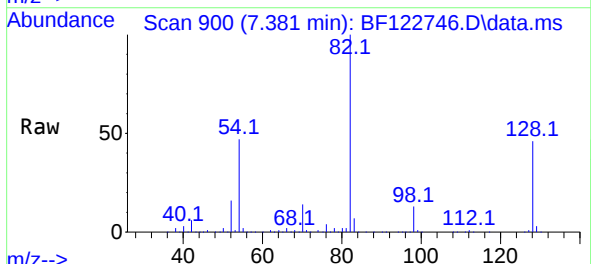
Tgt Ion:136 Resp: 870302  
Ion Ratio Lower Upper  
136 100  
137 11.4 8.8 13.2  
54 7.4 5.5 8.3  
68 6.1 4.6 6.8

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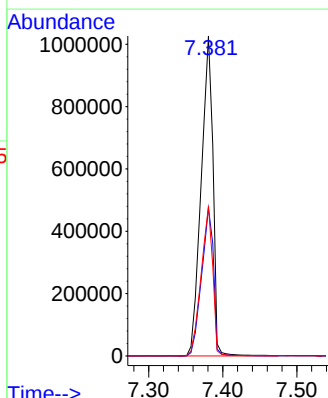
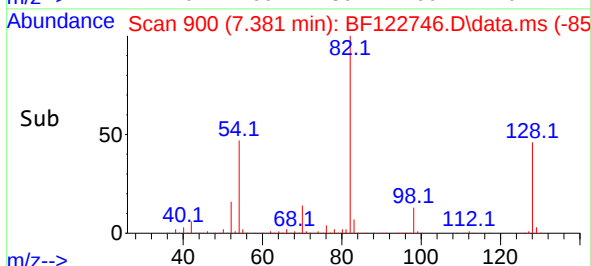
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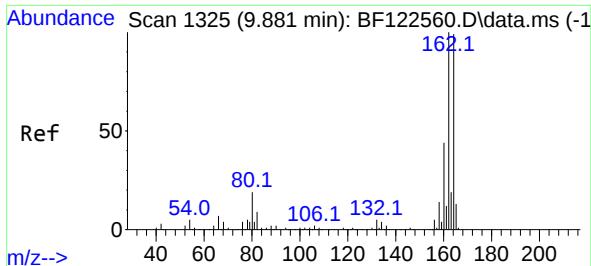


#23  
Nitrobenzene-d5  
Concen: 65.46 ng  
RT: 7.381 min Scan# 900  
Delta R.T. -0.012 min  
Lab File: BF122746.D  
Acq: 16 Dec 2020 13:05

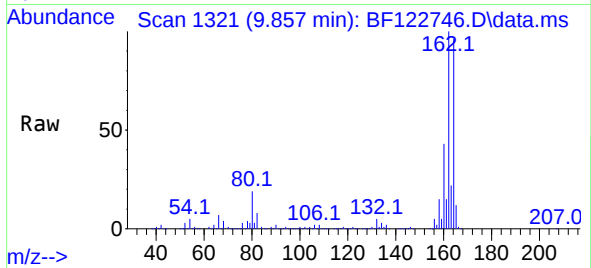


Tgt Ion: 82 Resp: 1137127  
Ion Ratio Lower Upper  
82 100  
128 46.3 37.0 55.4  
54 46.8 38.4 57.6

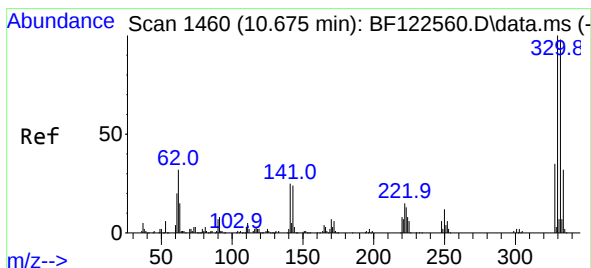
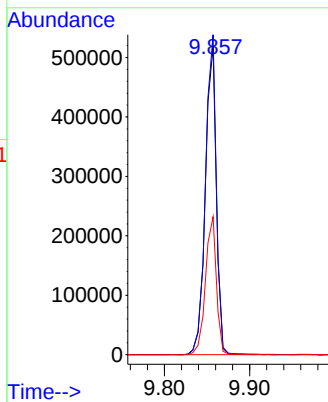
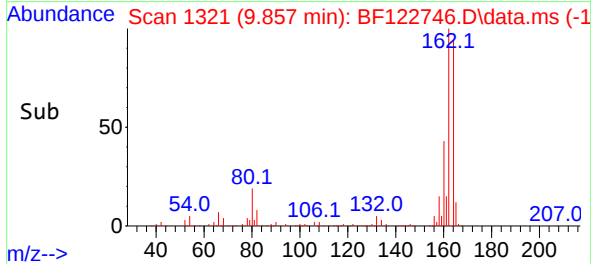




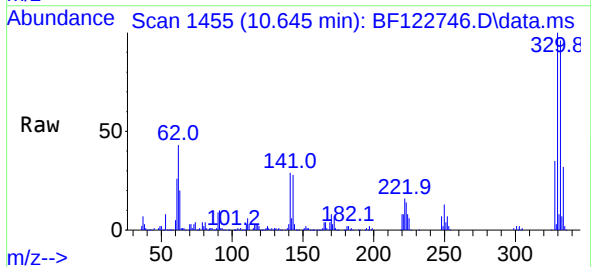
#39  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.857 min Scan# 1321  
Delta R.T. -0.006 min  
Lab File: BF122746.D  
Acq: 16 Dec 2020 13:05



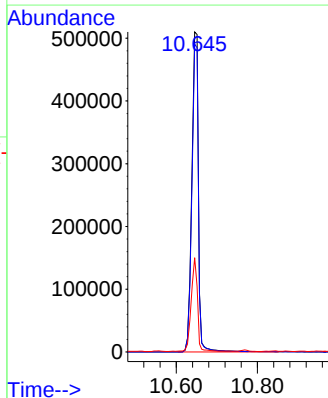
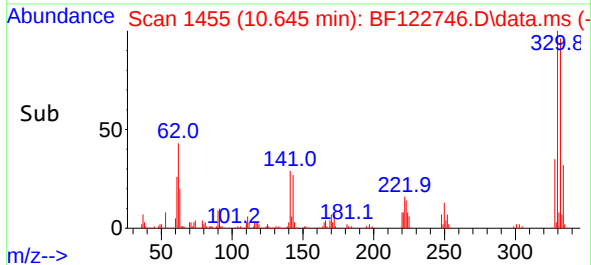
Tgt Ion:164 Resp: 464884  
Ion Ratio Lower Upper  
164 100  
162 103.8 80.8 121.2  
160 44.7 35.4 53.0



#42  
2,4,6-Tribromophenol  
Concen: 94.31 ng  
RT: 10.645 min Scan# 1455  
Delta R.T. -0.006 min  
Lab File: BF122746.D  
Acq: 16 Dec 2020 13:05



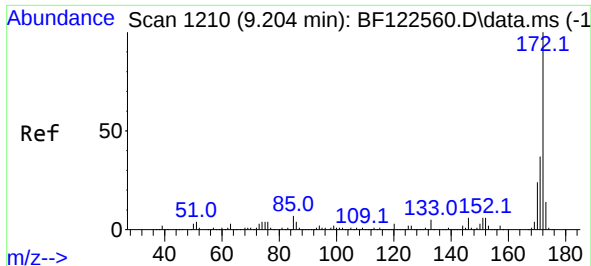
Tgt Ion:330 Resp: 573892  
Ion Ratio Lower Upper  
330 100  
332 95.0 77.5 116.3  
141 27.9 23.8 35.8



Instrument :  
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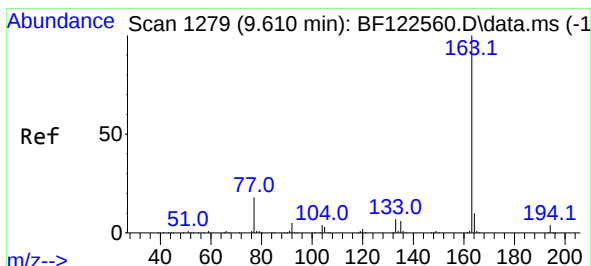
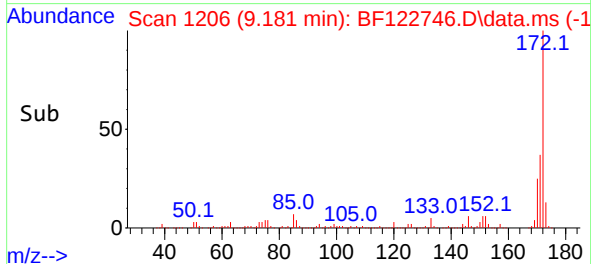
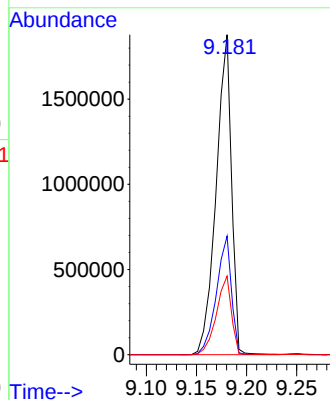
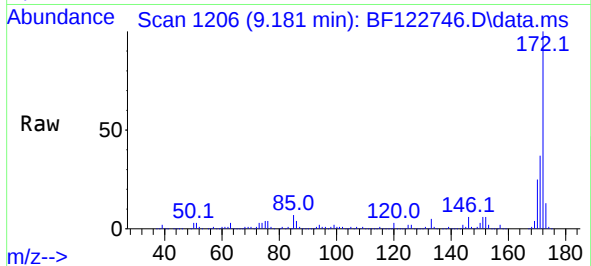
#45  
2-Fluorobiphenyl  
Concen: 58.17 ng  
RT: 9.181 min Scan# 1206  
Delta R.T. -0.006 min  
Lab File: BF122746.D  
Acq: 16 Dec 2020 13:05

Instrument :  
BNA\_F  
ClientSampled :  
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Tgt Ion:172 Resp: 1999315  
Ion Ratio Lower Upper  
172 100  
171 37.0 29.6 44.4  
170 24.5 19.5 29.3

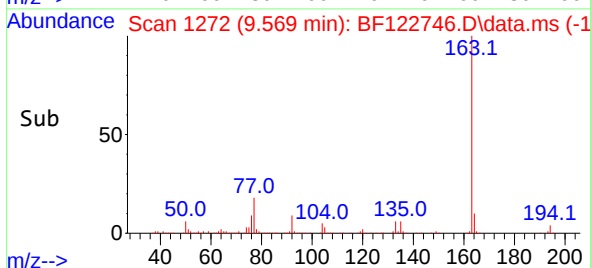
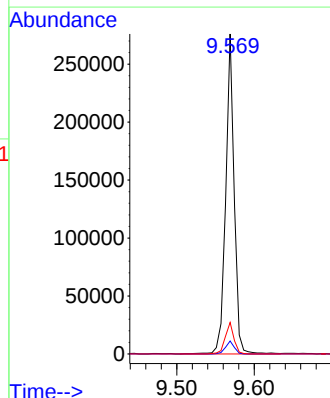
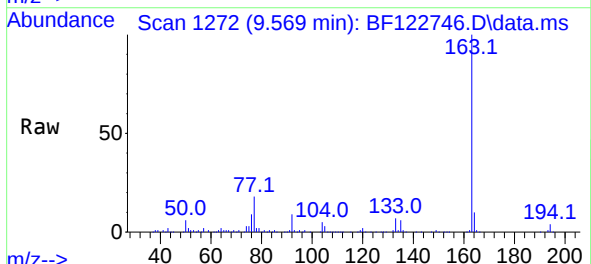
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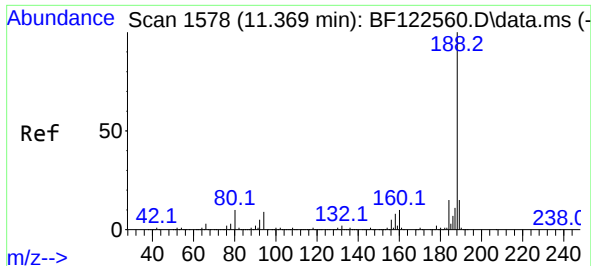
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#50  
Dimethylphthalate  
Concen: 5.65 ng  
RT: 9.569 min Scan# 1272  
Delta R.T. -0.018 min  
Lab File: BF122746.D  
Acq: 16 Dec 2020 13:05

Tgt Ion:163 Resp: 209645  
Ion Ratio Lower Upper  
163 100  
194 4.1 3.4 5.0  
164 9.9 8.1 12.1





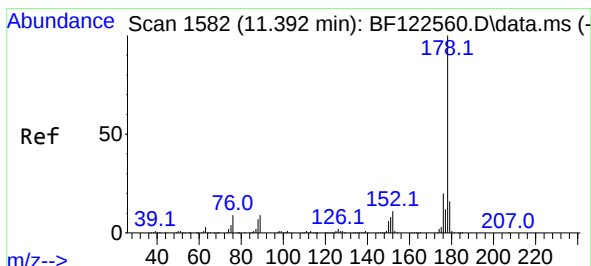
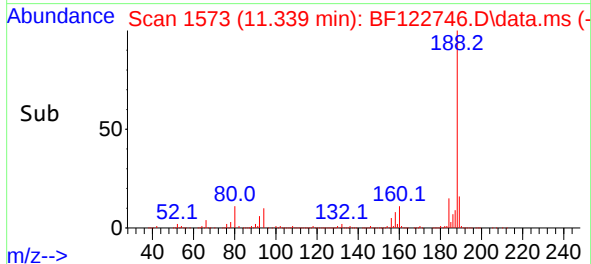
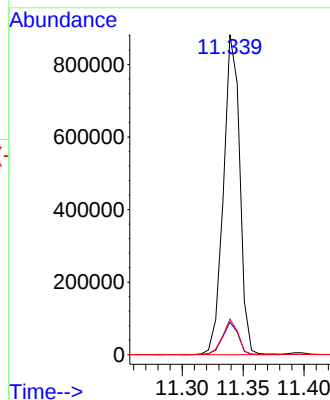
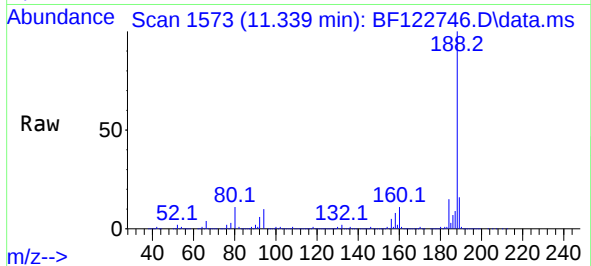
#64  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.339 min Scan# 1573  
Delta R.T. -0.006 min  
Lab File: BF122746.D  
Acq: 16 Dec 2020 13:05

Instrument :  
BNA\_F  
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CHRT-20057

Tgt Ion:188 Resp: 822995  
Ion Ratio Lower Upper  
188 100  
94 10.1 7.4 11.2  
80 11.1 8.2 12.4

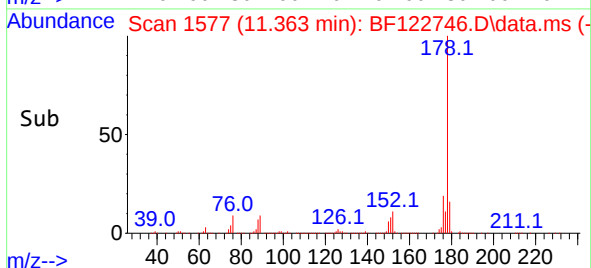
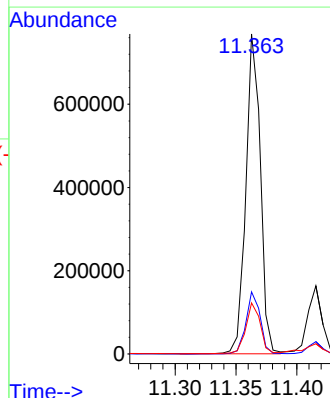
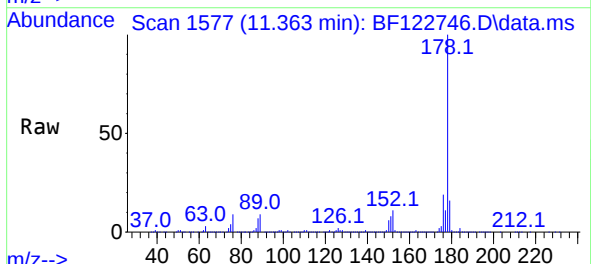
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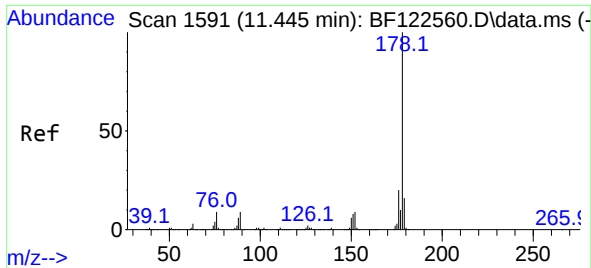
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#71  
Phenanthrene  
Concen: 13.07 ng  
RT: 11.363 min Scan# 1577  
Delta R.T. -0.006 min  
Lab File: BF122746.D  
Acq: 16 Dec 2020 13:05

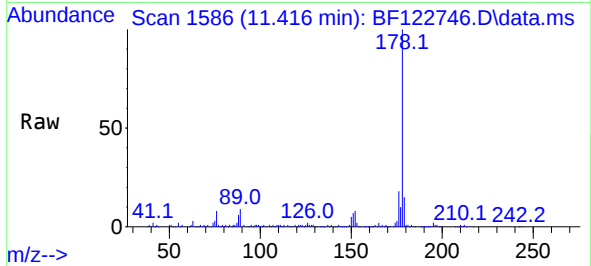
Tgt Ion:178 Resp: 639049  
Ion Ratio Lower Upper  
178 100  
176 19.4 16.2 24.2  
179 15.9 12.7 19.1





#72  
 Anthracene  
 Concen: 2.62 ng  
 RT: 11.416 min Scan# 1586  
 Delta R.T. -0.006 min  
 Lab File: BF122746.D  
 Acq: 16 Dec 2020 13:05

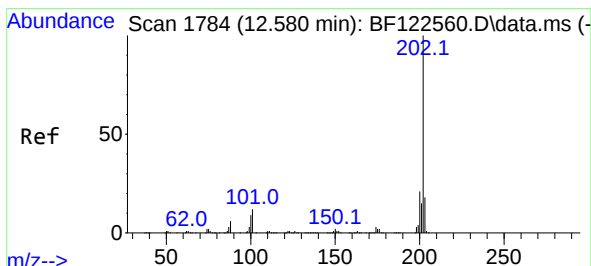
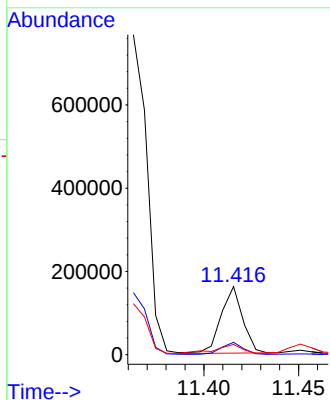
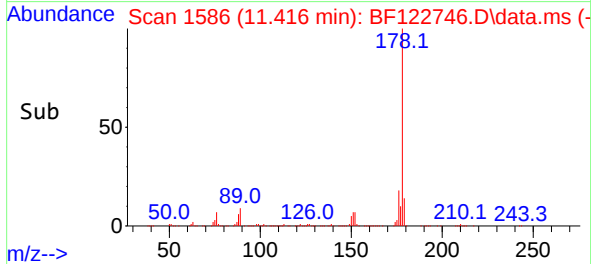
Instrument :  
 BNA\_F  
 ClientSampled :  
 CHRT-20057



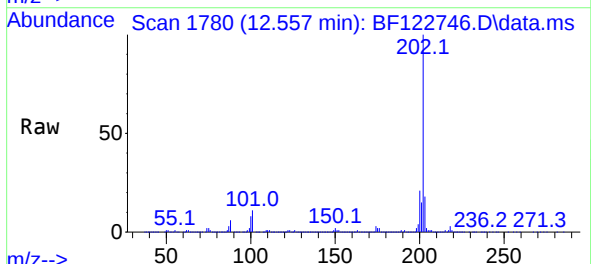
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 178 100  
 176 18.1 15.6 23.4  
 179 15.1 12.8 19.2

Manual Integrations  
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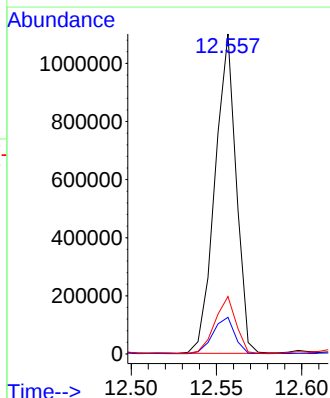
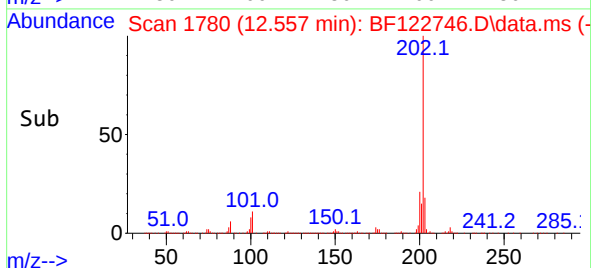
mohammad  
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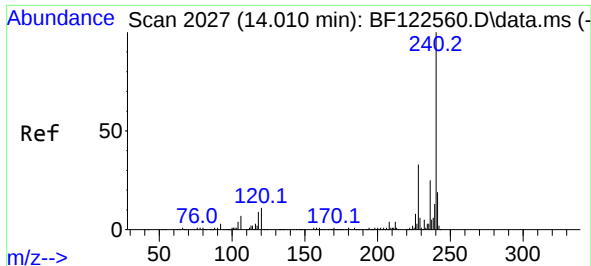


#75  
 Fluoranthene  
 Concen: 18.59 ng  
 RT: 12.557 min Scan# 1780  
 Delta R.T. -0.000 min  
 Lab File: BF122746.D  
 Acq: 16 Dec 2020 13:05

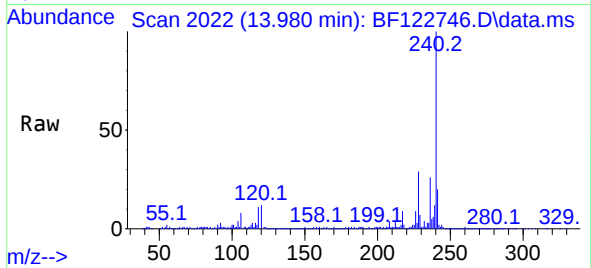


Tgt Ion:202 Resp: 953478  
 Ion Ratio Lower Upper  
 202 100  
 101 11.5 0.0 32.2  
 203 18.0 0.0 38.1

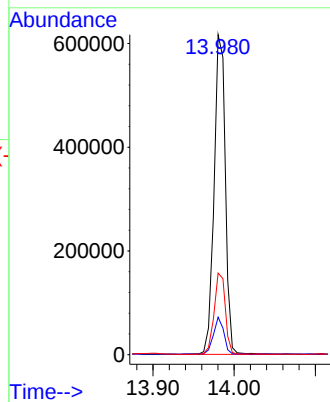
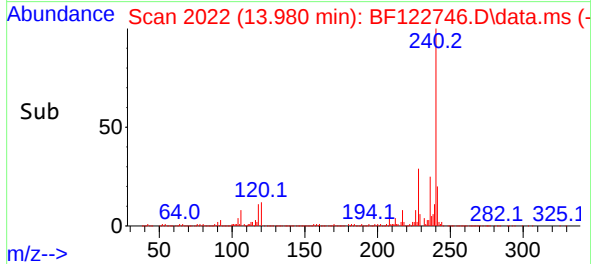




#76  
Chrysene-d12  
Concen: 20.00 ng  
RT: 13.980 min Scan# 2022  
Delta R.T. -0.006 min  
Lab File: BF122746.D  
Acq: 16 Dec 2020 13:05



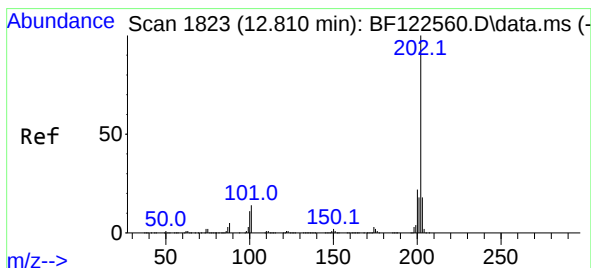
Tgt Ion:240 Resp: 592643  
Ion Ratio Lower Upper  
240 100  
120 11.7 8.6 12.8  
236 25.5 20.3 30.5



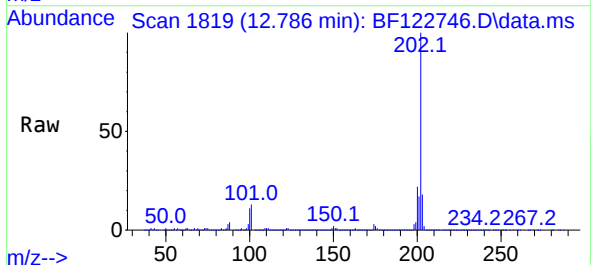
Instrument :  
BNA\_F  
ClientSampleId :  
CHRT-20057

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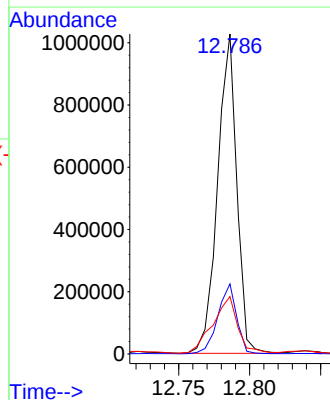
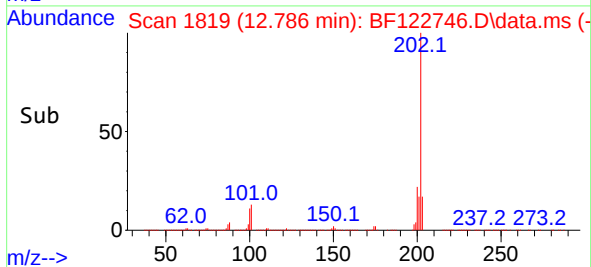
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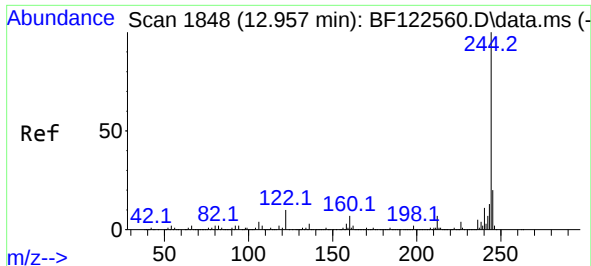


#78  
Pyrene  
Concen: 20.97 ng  
RT: 12.786 min Scan# 1819  
Delta R.T. -0.000 min  
Lab File: BF122746.D  
Acq: 16 Dec 2020 13:05



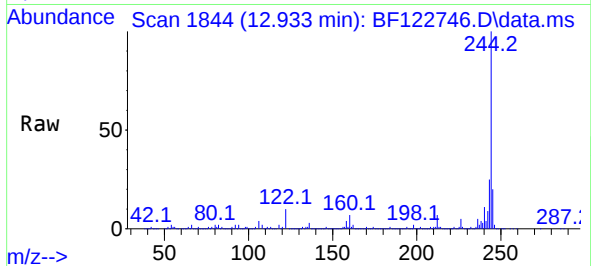
Tgt Ion:202 Resp: 960841  
Ion Ratio Lower Upper  
202 100  
200 21.9 17.6 26.4  
203 18.0 14.6 21.8





#79  
Terphenyl-d14  
Concen: 59.32 ng  
RT: 12.933 min Scan# 1844  
Delta R.T. -0.000 min  
Lab File: BF122746.D  
Acq: 16 Dec 2020 13:05

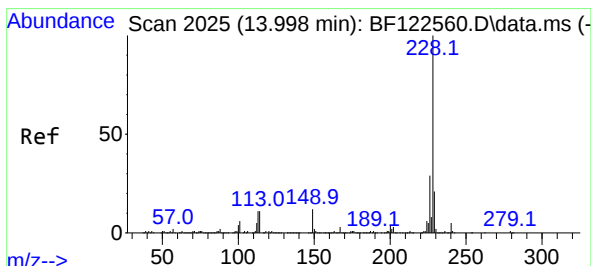
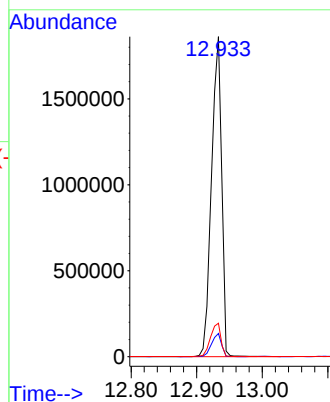
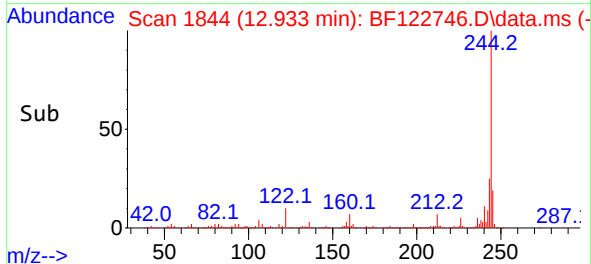
Instrument :  
BNA\_F  
ClientSampleId :  
CHRT-20057



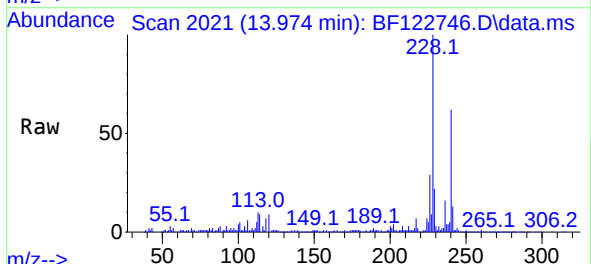
Tgt Ion:244 Resp: 2008333  
Ion Ratio Lower Upper  
244 100  
212 7.3 5.7 8.5  
122 10.5 8.3 12.5

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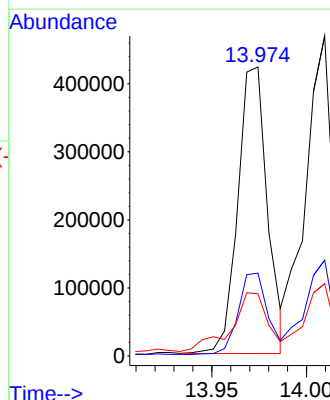
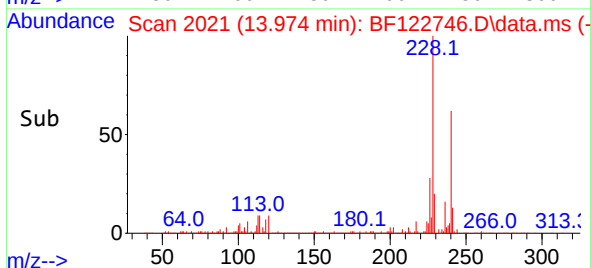
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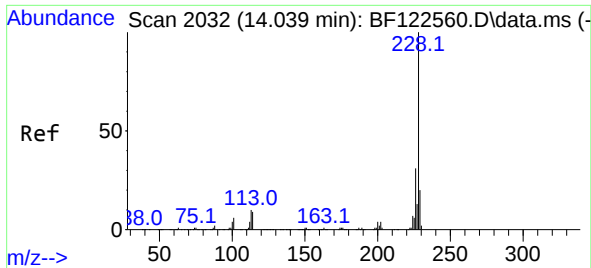


#81  
Benzo(a)anthracene  
Concen: 11.54 ng  
RT: 13.974 min Scan# 2021  
Delta R.T. -0.000 min  
Lab File: BF122746.D  
Acq: 16 Dec 2020 13:05

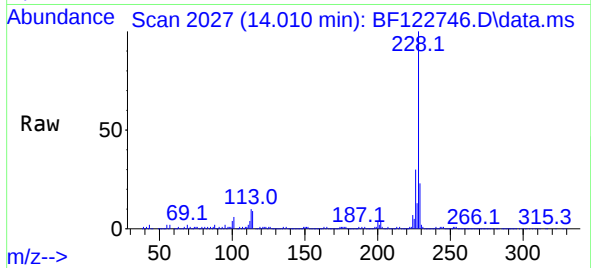


Tgt Ion:228 Resp: 457218  
Ion Ratio Lower Upper  
228 100  
226 28.7 23.0 34.4  
229 21.5 16.6 24.8

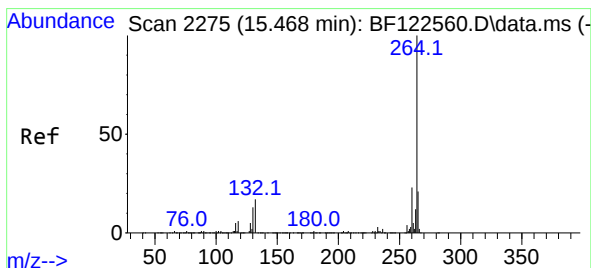
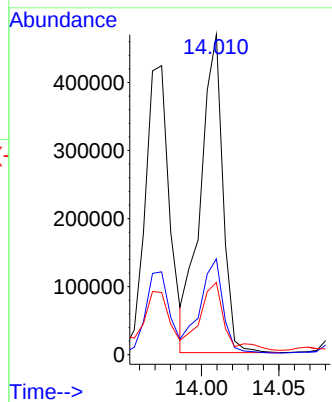
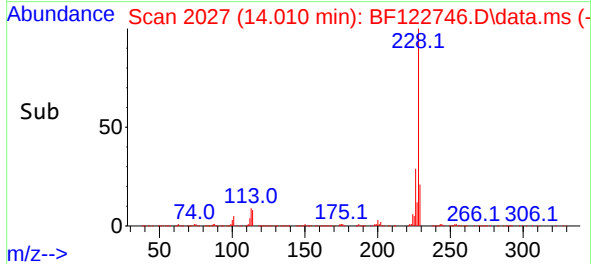




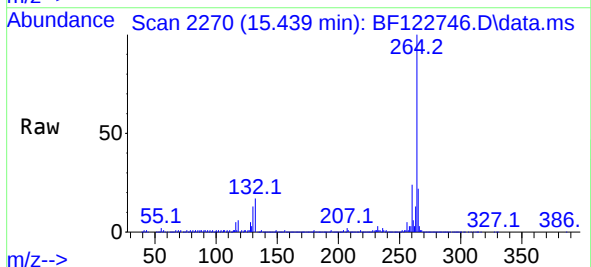
#83  
Chrysene  
Concen: 11.92 ng  
RT: 14.010 min Scan# 2027  
Delta R.T. -0.006 min  
Lab File: BF122746.D  
Acq: 16 Dec 2020 13:05



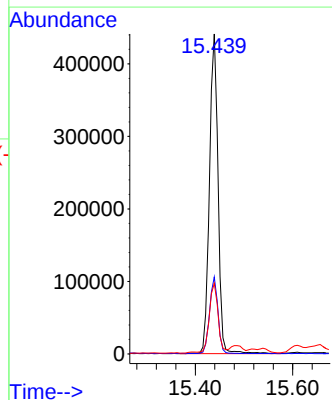
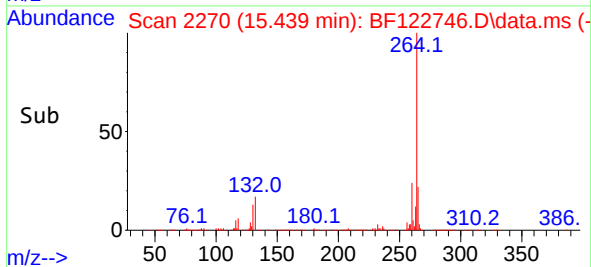
Tgt Ion:228 Resp: 469766  
Ion Ratio Lower Upper  
228 100  
226 29.9 24.6 36.8  
229 22.6 15.8 23.6



#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.439 min Scan# 2270  
Delta R.T. -0.000 min  
Lab File: BF122746.D  
Acq: 16 Dec 2020 13:05



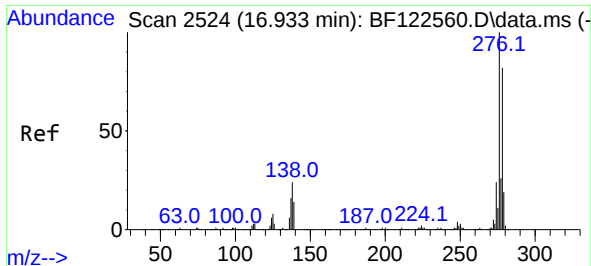
Tgt Ion:264 Resp: 537591  
Ion Ratio Lower Upper  
264 100  
260 24.1 18.6 28.0  
265 22.1 17.0 25.6



Instrument :  
BNA\_F  
ClientSampled :  
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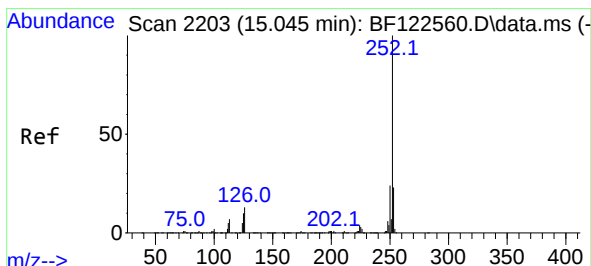
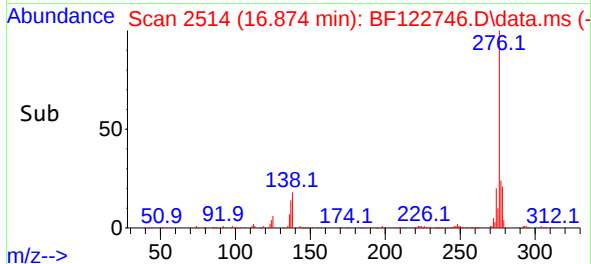
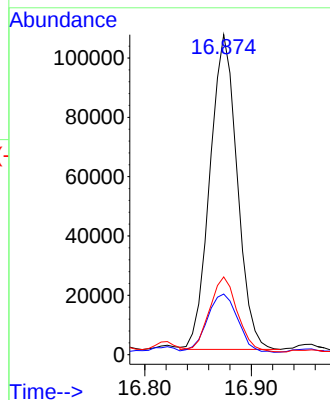
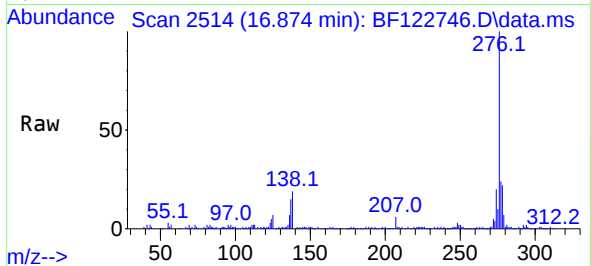
#87  
Indeno(1,2,3-cd)pyrene  
Concen: 5.36 ng  
RT: 16.874 min Scan# 2514  
Delta R.T. -0.018 min  
Lab File: BF122746.D  
Acq: 16 Dec 2020 13:05

Tgt Ion: 276 Resp: 189018  
Ion Ratio Lower Upper  
276 100  
138 20.7 18.7 28.1  
277 24.5 20.2 30.4

Instrument :  
BNA\_F  
ClientSampleId :  
CHRT-20057

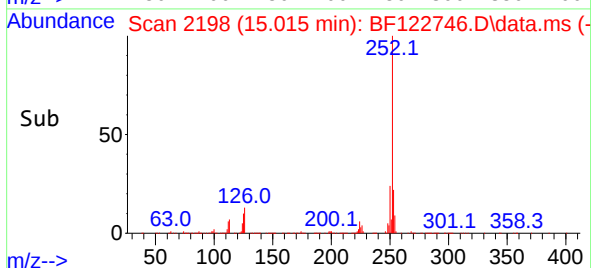
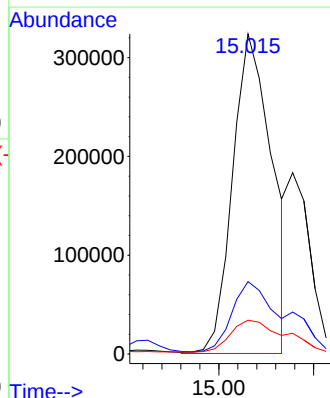
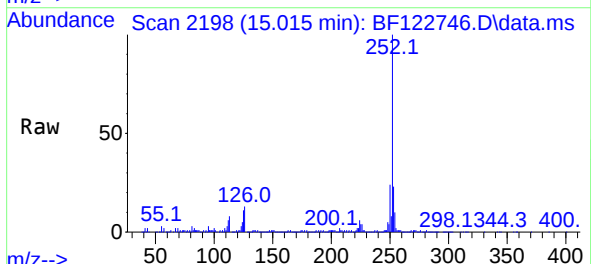
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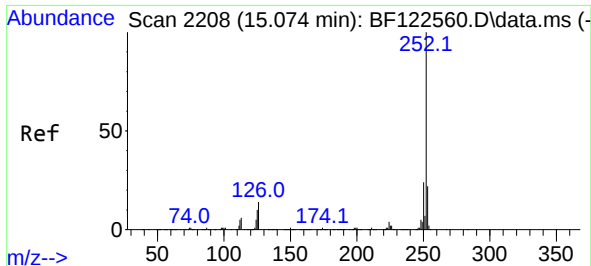
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#88  
Benzo(b)fluoranthene  
Concen: 12.37 ng m  
RT: 15.015 min Scan# 2198  
Delta R.T. -0.006 min  
Lab File: BF122746.D  
Acq: 16 Dec 2020 13:05

Tgt Ion: 252 Resp: 466566  
Ion Ratio Lower Upper  
252 100  
253 22.6 18.3 27.5  
125 10.6 8.1 12.1





#89

Benzo(k)fluoranthene

Concen: 4.43 ng m

RT: 15.039 min Scan# 2202

Delta R.T. -0.012 min

Lab File: BF122746.D

Acq: 16 Dec 2020 13:05

|             |              |
|-------------|--------------|
| Tgt Ion:252 | Resp: 152910 |
| Ion Ratio   | Lower Upper  |
| 252 100     |              |
| 253 23.1    | 17.8 26.8    |
| 125 11.4    | 8.4 12.6     |

Instrument :

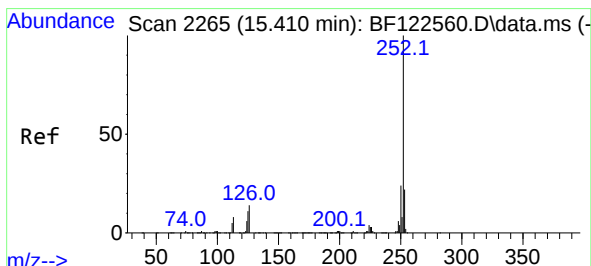
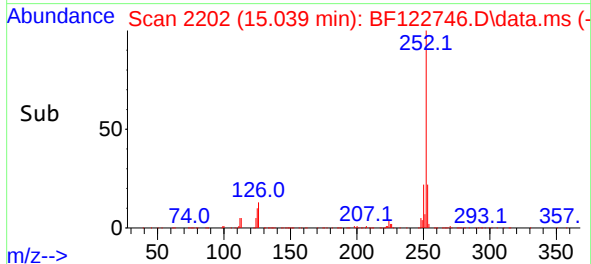
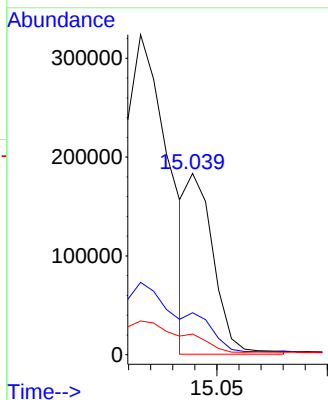
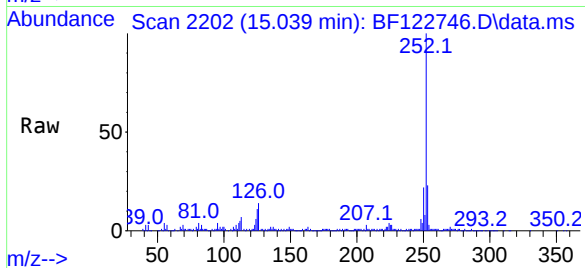
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ClientSampleId :

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#90

Benzo(a)pyrene

Concen: 9.60 ng

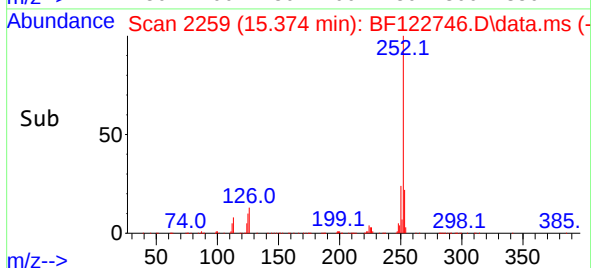
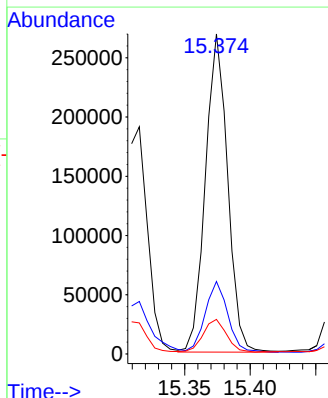
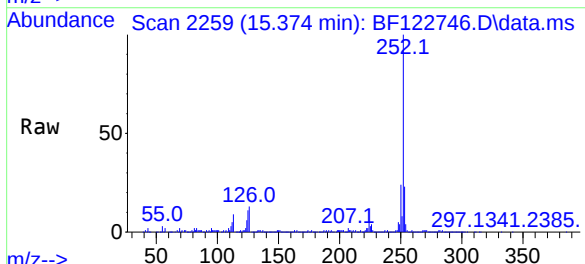
RT: 15.374 min Scan# 2259

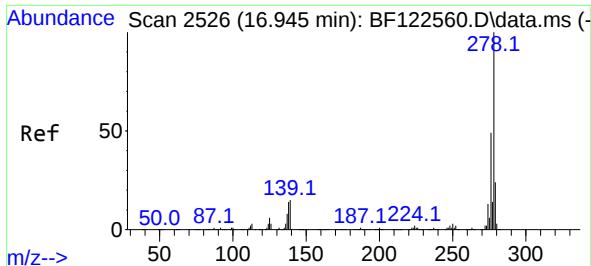
Delta R.T. -0.006 min

Lab File: BF122746.D

Acq: 16 Dec 2020 13:05

|             |              |
|-------------|--------------|
| Tgt Ion:252 | Resp: 316832 |
| Ion Ratio   | Lower Upper  |
| 252 100     |              |
| 253 22.7    | 17.5 26.3    |
| 125 10.8    | 8.6 12.8     |





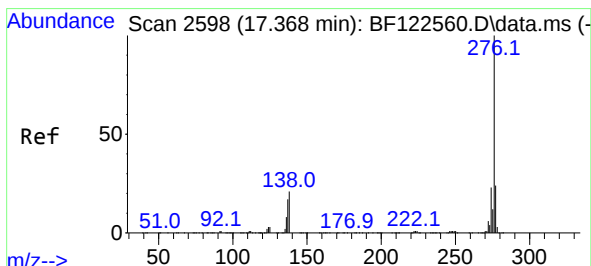
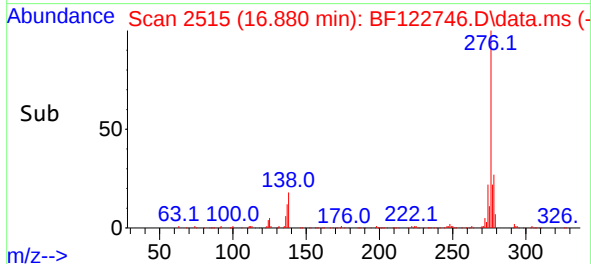
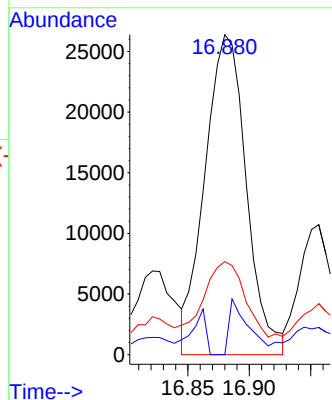
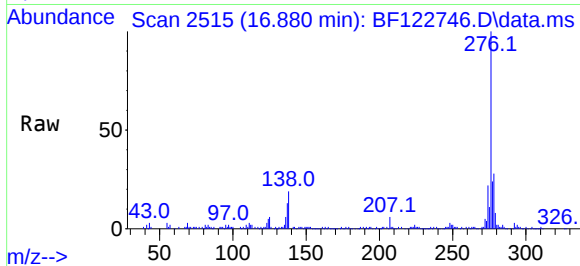
#91  
Dibenzo(a,h)anthracene  
Concen: 2.15 ng m  
RT: 16.880 min Scan# 2515  
Delta R.T. -0.024 min  
Lab File: BF122746.D  
Acq: 16 Dec 2020 13:05

Tgt Ion: 278 Resp: 61966  
Ion Ratio Lower Upper  
278 100  
139 0.0 12.0 18.0#  
279 29.1 19.4 29.2

Instrument :  
BNA\_F  
ClientSampled :  
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#92  
Benzo(g,h,i)perylene  
Concen: 6.70 ng  
RT: 17.309 min Scan# 2588  
Delta R.T. -0.018 min  
Lab File: BF122746.D  
Acq: 16 Dec 2020 13:05

Tgt Ion: 276 Resp: 187350  
Ion Ratio Lower Upper  
276 100  
277 24.5 19.3 28.9  
138 20.9 16.6 24.8

