

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF082421\  
 Data File : BF125195.D  
 Acq On : 24 Aug 2021 20:37  
 Operator : JU/CG  
 Sample : M3507-01  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 130-A

Manual Integrations  
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Quant Time: Aug 25 04:37:38 2021  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF081821.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Aug 24 12:39:21 2021  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-----------------------------|--------|------|----------|---------|-------|----------|
| -----                       |        |      |          |         |       |          |
| Internal Standards          |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.916  | 152  | 144829   | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.198  | 136  | 547059   | 20.000  | ng    | # 0.00   |
| 39) Acenaphthene-d10        | 9.951  | 164  | 278421   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.439 | 188  | 436678   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12            | 14.080 | 240  | 354142   | 20.000  | ng    | # 0.00   |
| 86) Perylene-d12            | 15.580 | 264  | 372724   | 20.000  | ng    | 0.00     |
|                             |        |      |          |         |       |          |
| System Monitoring Compounds |        |      |          |         |       |          |
| 5) 2-Fluorophenol           | 5.534  | 112  | 840837   | 87.875  | ng    | 0.00     |
| 7) Phenol-d6                | 6.534  | 99   | 1050119  | 84.857  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.475  | 82   | 697259   | 64.166  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.739 | 330  | 280395   | 100.888 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.269  | 172  | 1246465  | 62.396  | ng    | 0.00     |
| 79) Terphenyl-d14           | 13.021 | 244  | 1155404  | 51.975  | ng    | 0.00     |
|                             |        |      |          |         |       |          |
| Target Compounds            |        |      |          |         |       | Qvalue   |
| 71) Phenanthrene            | 11.463 | 178  | 201708   | 8.383   | ng    | 99       |
| 72) Anthracene              | 11.510 | 178  | 54154    | 2.283   | ng    | 97       |
| 75) Fluoranthene            | 12.651 | 202  | 351210   | 14.711  | ng    | 98       |
| 78) Pyrene                  | 12.880 | 202  | 562373   | 18.512  | ng    | 97       |
| 81) Benzo(a)anthracene      | 14.068 | 228  | 394070   | 15.444  | ng    | 95       |
| 83) Chrysene                | 14.104 | 228  | 406092   | 16.093  | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene  | 17.080 | 276  | 162415   | 6.049   | ng    | # 88     |
| 88) Benzo(b)fluoranthene    | 15.139 | 252  | 455734m  | 16.736  | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.162 | 252  | 109759m  | 4.320   | ng    |          |
| 90) Benzo(a)pyrene          | 15.515 | 252  | 391716m  | 16.285  | ng    |          |
| 91) Dibenzo(a,h)anthracene  | 17.098 | 278  | 56070m   | 2.416   | ng    |          |
| 92) Benzo(g,h,i)perylene    | 17.539 | 276  | 157641m  | 7.044   | ng    |          |
| -----                       |        |      |          |         |       |          |

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

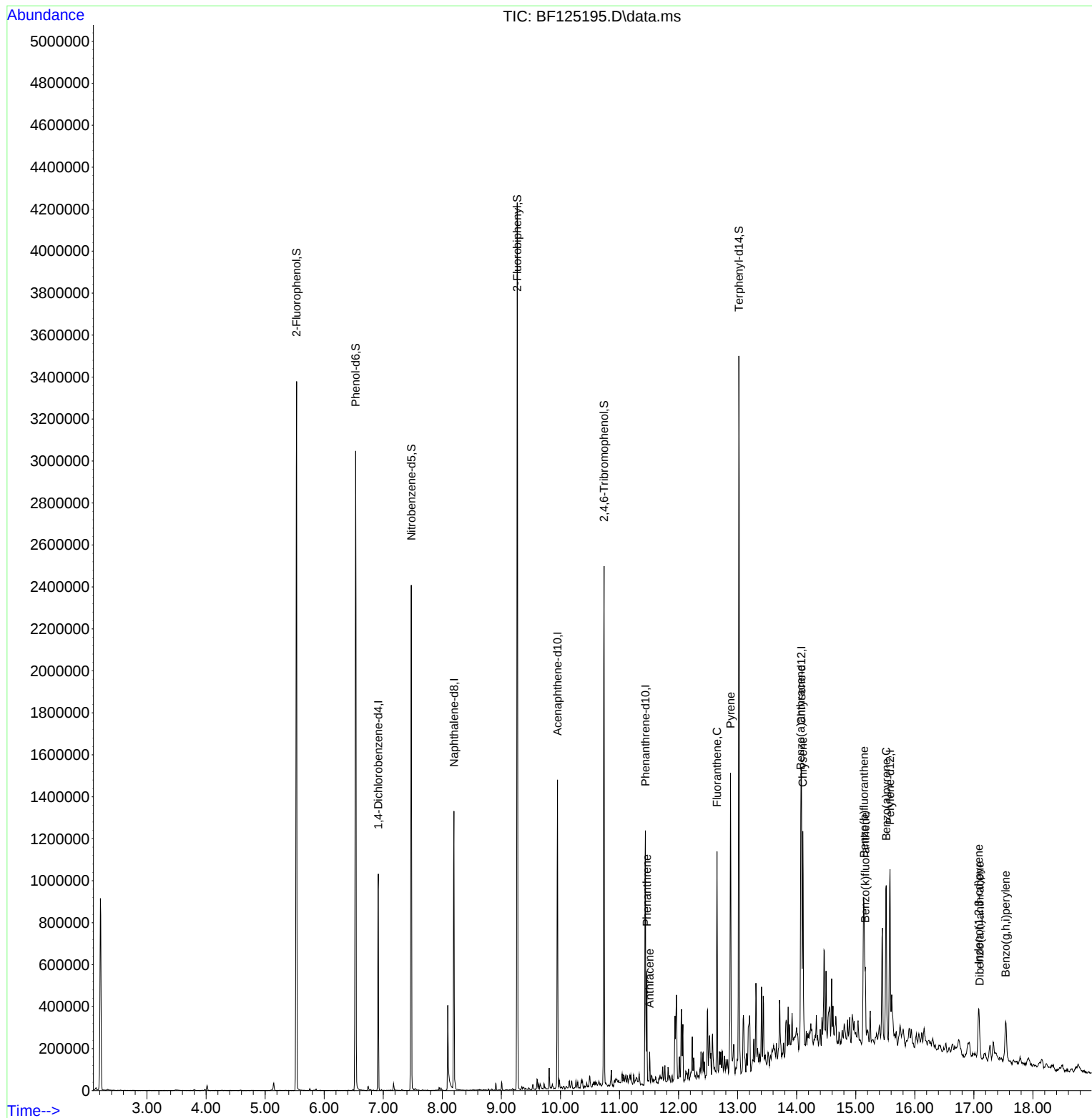
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF082421\  
Data File : BF125195.D  
Acq On : 24 Aug 2021 20:37  
Operator : JU/CG  
Sample : M3507-01  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

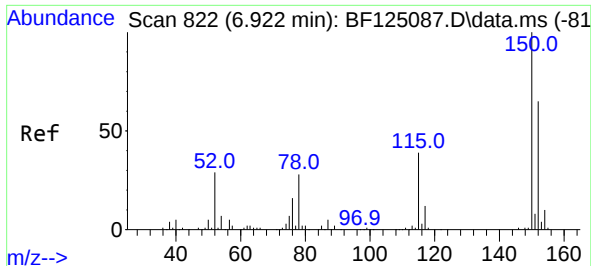
Instrument :  
BNA\_F  
ClientSampleId :  
130-A

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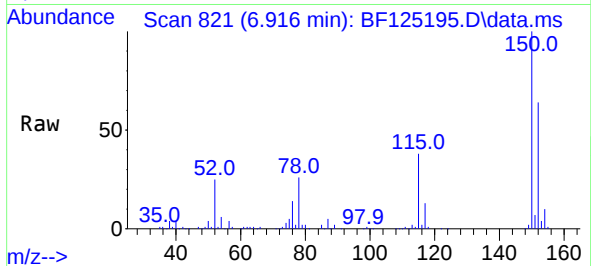
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Quant Time: Aug 25 04:37:38 2021  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF081821.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Aug 24 12:39:21 2021  
Response via : Initial Calibration

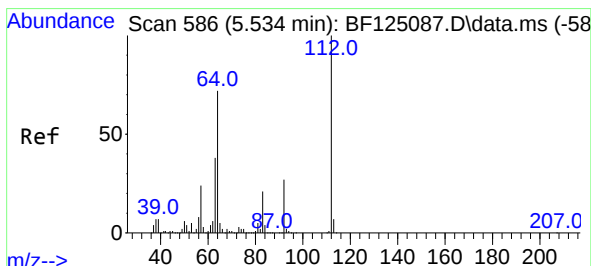
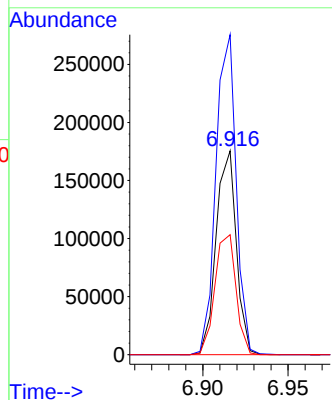
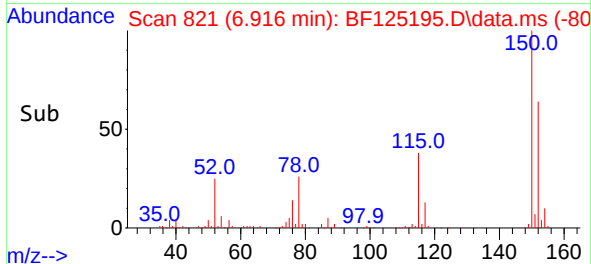




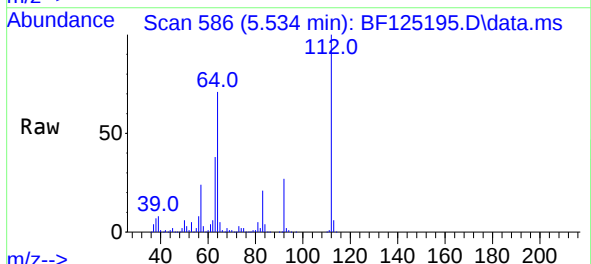
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1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.916 min Scan# 821  
Delta R.T. -0.000 min  
Lab File: BF125195.D  
Acq: 24 Aug 2021 20:37



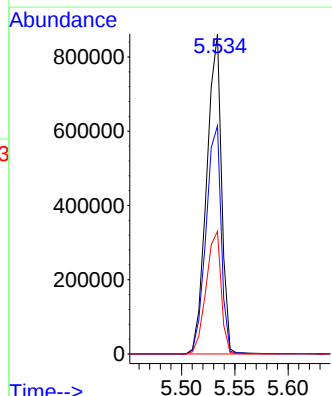
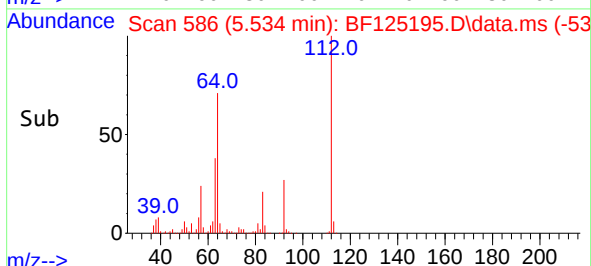
Tgt Ion:152 Resp: 144829  
Ion Ratio Lower Upper  
152 100  
150 156.9 117.6 176.4  
115 58.9 47.1 70.7



#5  
2-Fluorophenol  
Concen: 87.875 ng  
RT: 5.534 min Scan# 586  
Delta R.T. 0.006 min  
Lab File: BF125195.D  
Acq: 24 Aug 2021 20:37



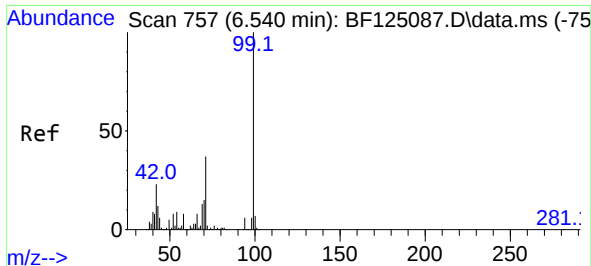
Tgt Ion:112 Resp: 840837  
Ion Ratio Lower Upper  
112 100  
64 71.3 44.2 66.2#  
63 38.4 26.2 39.2



Instrument :  
BNA\_F  
ClientSampled :  
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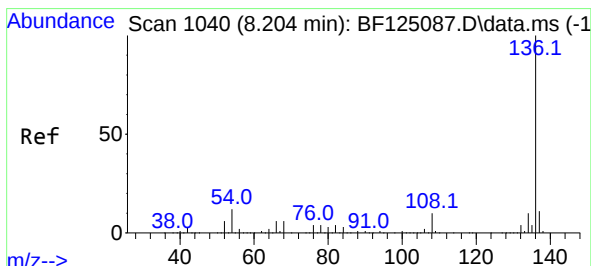
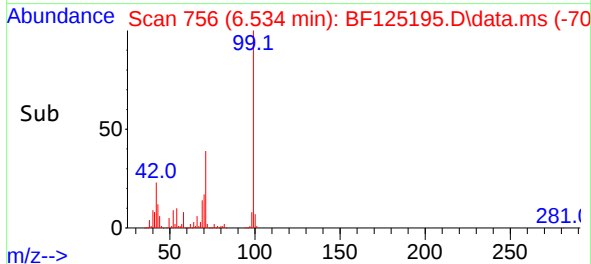
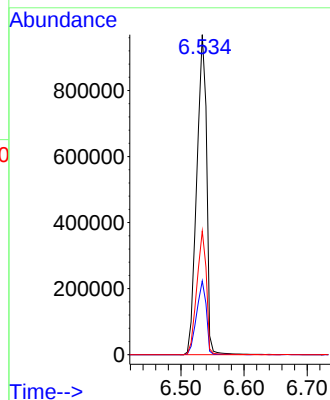
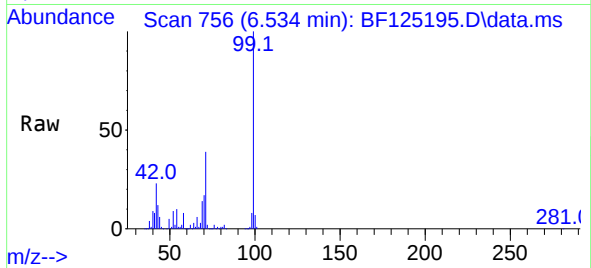
#7  
Phenol-d6  
Concen: 84.857 ng  
RT: 6.534 min Scan# 756  
Delta R.T. -0.006 min  
Lab File: BF125195.D  
Acq: 24 Aug 2021 20:37

Tgt Ion: 99 Resp: 1050119  
Ion Ratio Lower Upper  
99 100  
42 23.1 23.5 35.3#  
71 38.6 25.6 38.4#

Instrument :  
BNA\_F  
ClientSampled :  
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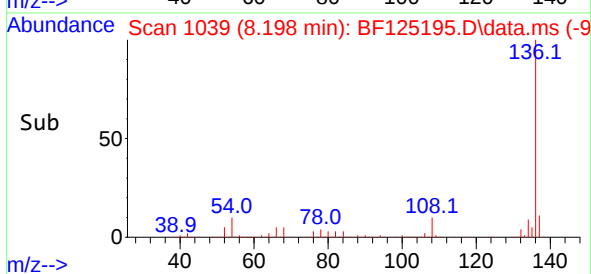
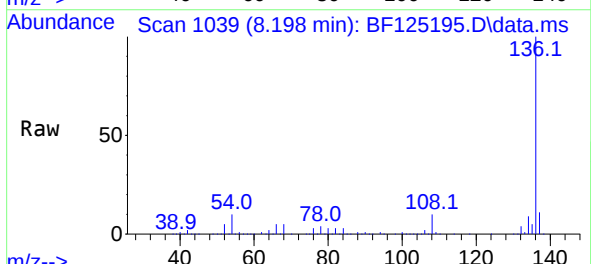
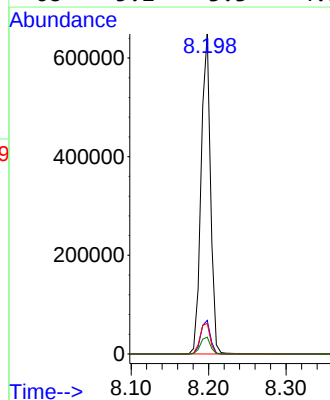
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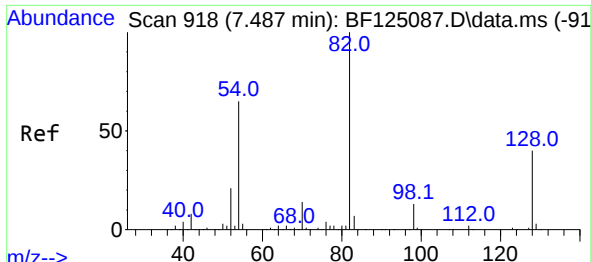
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#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.198 min Scan# 1039  
Delta R.T. 0.000 min  
Lab File: BF125195.D  
Acq: 24 Aug 2021 20:37

Tgt Ion: 136 Resp: 547059  
Ion Ratio Lower Upper  
136 100  
137 10.5 9.8 14.6  
54 9.6 6.4 9.6  
68 5.2 3.3 4.9#





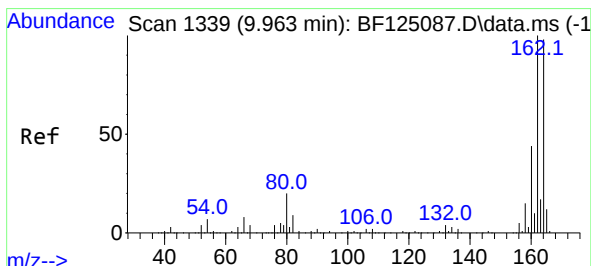
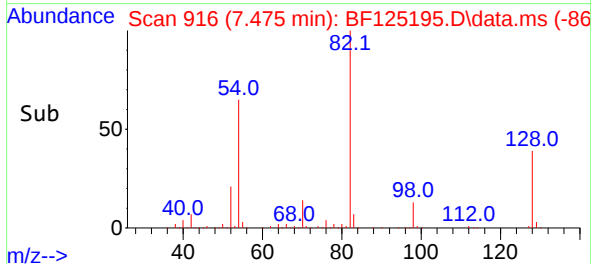
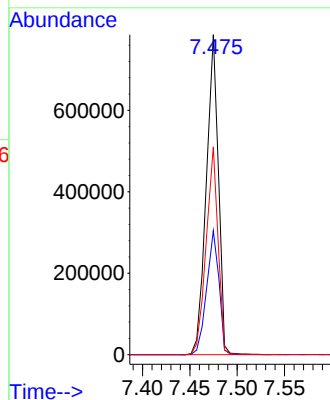
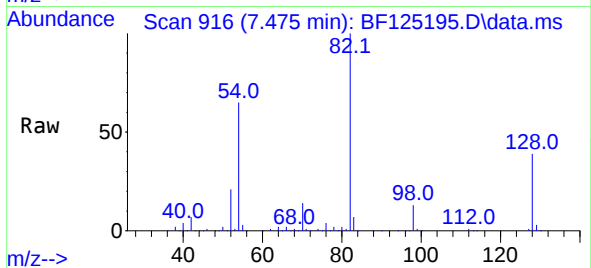
#23  
Nitrobenzene-d5  
Concen: 64.166 ng  
RT: 7.475 min Scan# 916  
Delta R.T. -0.006 min  
Lab File: BF125195.D  
Acq: 24 Aug 2021 20:37

Tgt Ion: 82 Resp: 697259  
Ion Ratio Lower Upper  
82 100  
128 38.7 40.6 60.8#  
54 64.9 49.6 74.4

Instrument :  
BNA\_F  
ClientSampled :  
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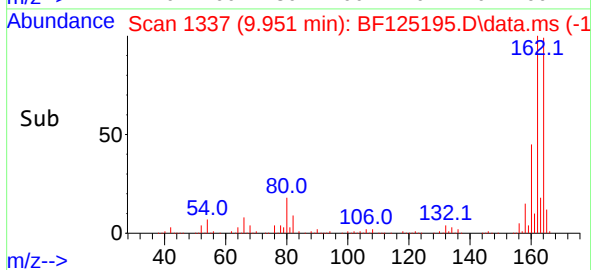
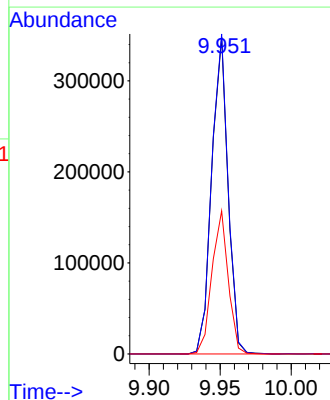
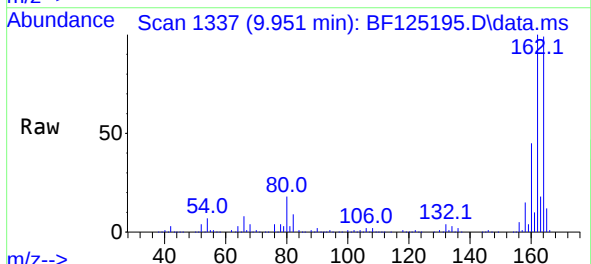
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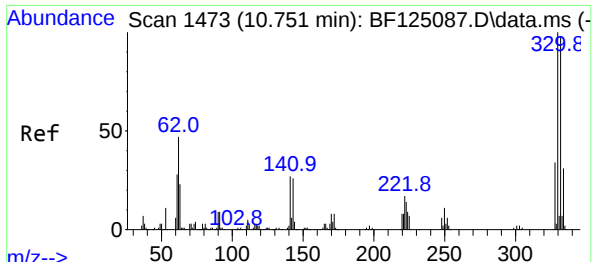
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#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.951 min Scan# 1337  
Delta R.T. 0.000 min  
Lab File: BF125195.D  
Acq: 24 Aug 2021 20:37

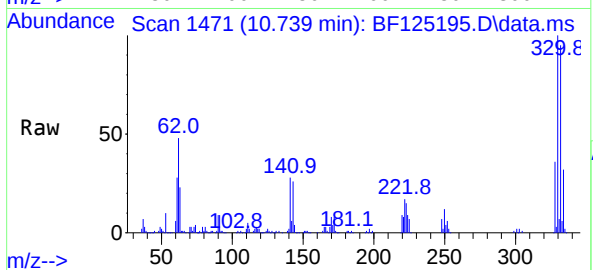
Tgt Ion:164 Resp: 278421  
Ion Ratio Lower Upper  
164 100  
162 101.0 81.3 121.9  
160 45.1 38.0 57.0





#42  
2,4,6-Tribromophenol  
Concen: 100.888 ng  
RT: 10.739 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: BF125195.D  
Acq: 24 Aug 2021 20:37

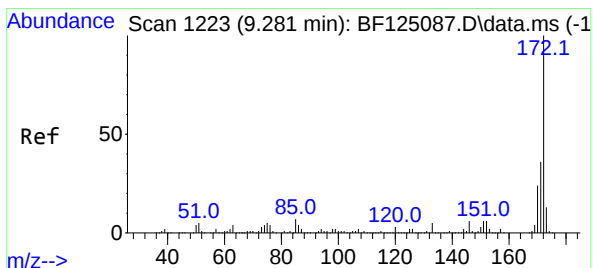
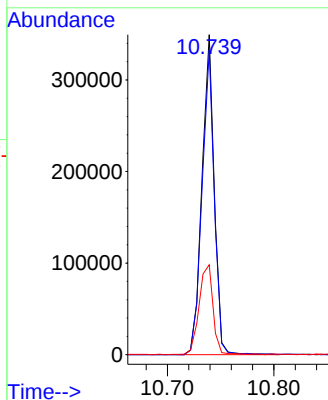
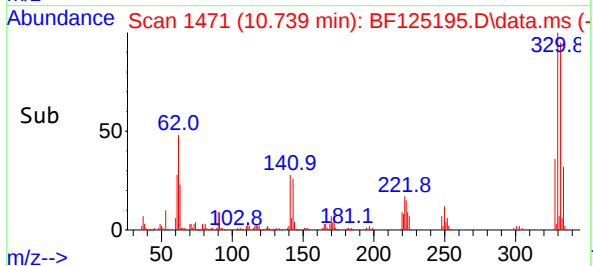
Instrument :  
BNA\_F  
ClientSampled :  
130-A



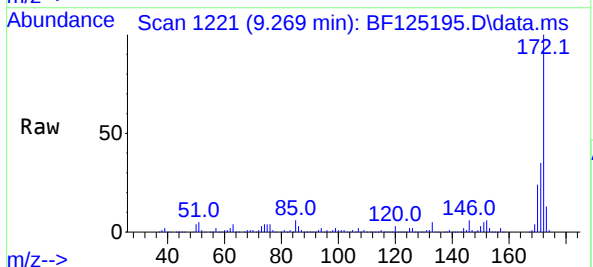
Tgt Ion:330 Resp: 280395  
Ion Ratio Lower Upper  
330 100  
332 95.1 76.2 114.4  
141 32.3 44.6 66.8#

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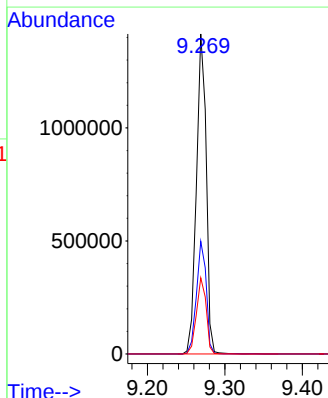
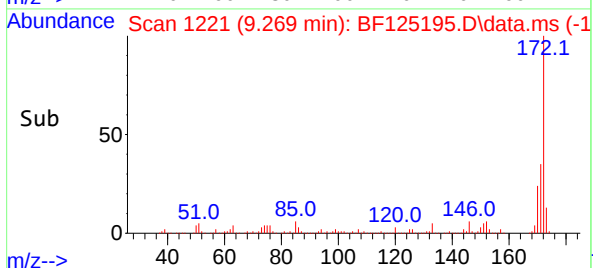
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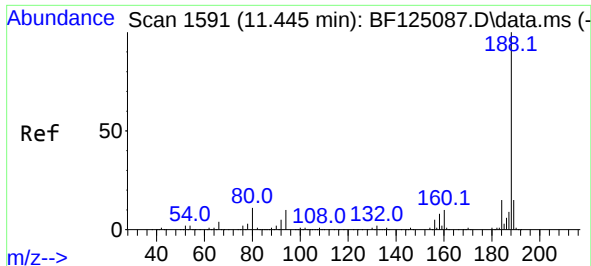


#45  
2-Fluorobiphenyl  
Concen: 62.396 ng  
RT: 9.269 min Scan# 1221  
Delta R.T. -0.006 min  
Lab File: BF125195.D  
Acq: 24 Aug 2021 20:37



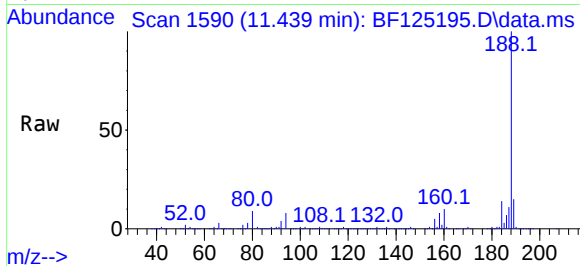
Tgt Ion:172 Resp: 1246465  
Ion Ratio Lower Upper  
172 100  
171 35.2 26.5 39.7  
170 23.8 18.8 28.2





#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.439 min Scan# 1590  
Delta R.T. 0.000 min  
Lab File: BF125195.D  
Acq: 24 Aug 2021 20:37

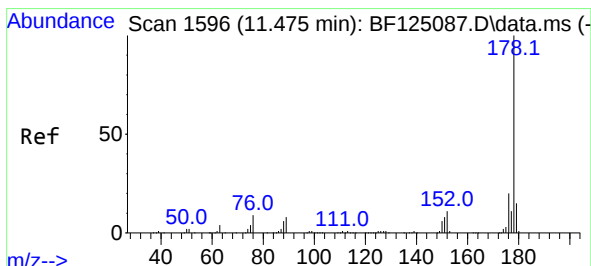
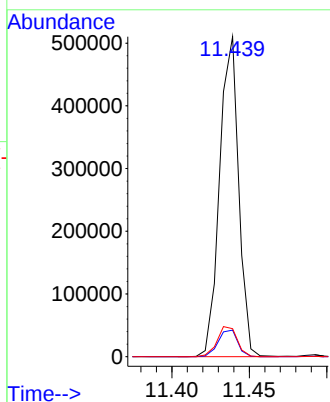
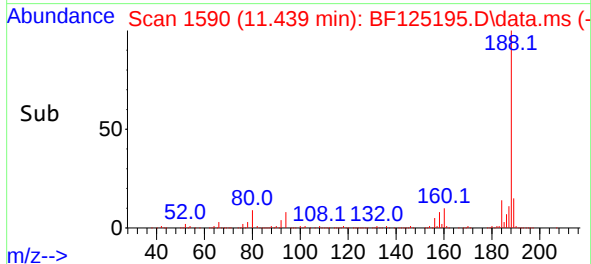
Instrument :  
BNA\_F  
ClientSampled :  
130-A



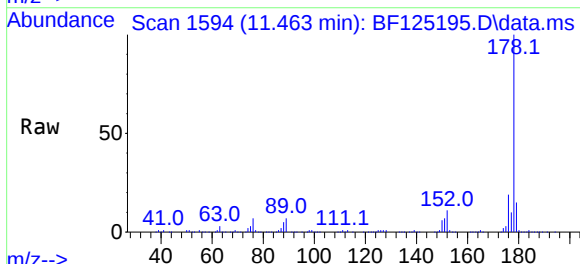
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Ion Ratio Lower Upper  
188 100  
94 8.3 6.7 10.1  
80 8.8 7.5 11.3

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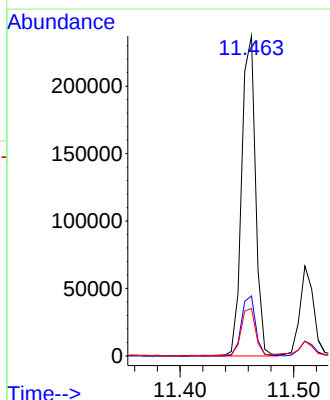
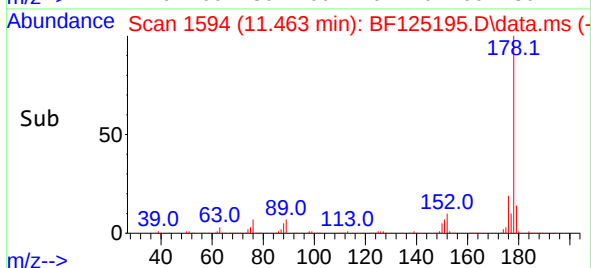
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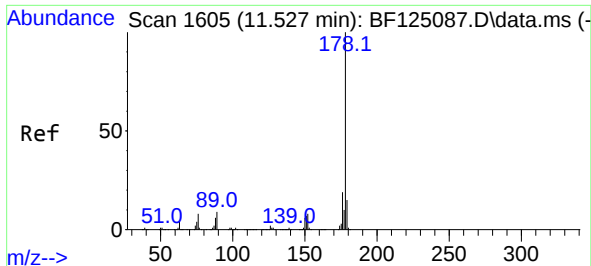


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Phenanthrene  
Concen: 8.383 ng  
RT: 11.463 min Scan# 1594  
Delta R.T. 0.000 min  
Lab File: BF125195.D  
Acq: 24 Aug 2021 20:37

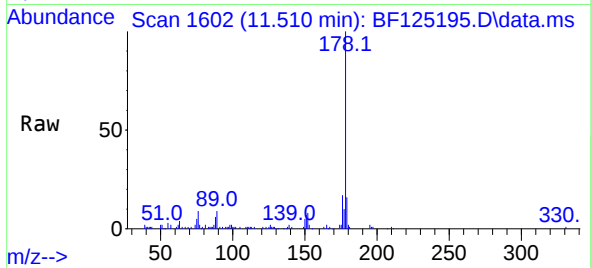


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Ion Ratio Lower Upper  
178 100  
176 18.8 14.7 22.1  
179 14.8 11.5 17.3

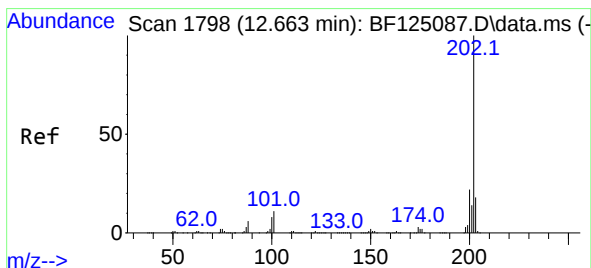
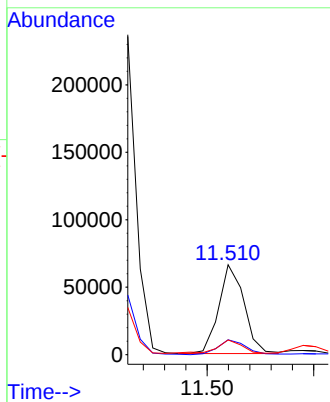
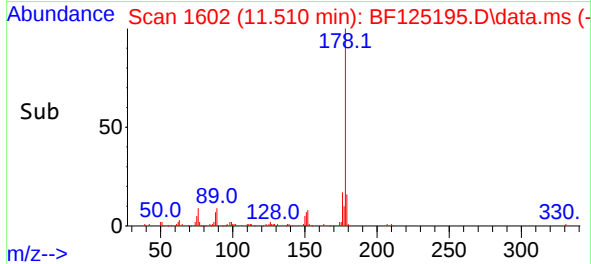




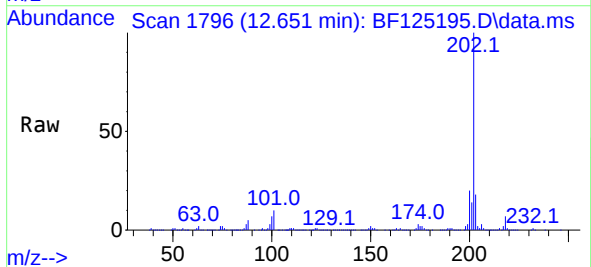
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 Anthracene  
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 Delta R.T. -0.006 min  
 Lab File: BF125195.D  
 Acq: 24 Aug 2021 20:37



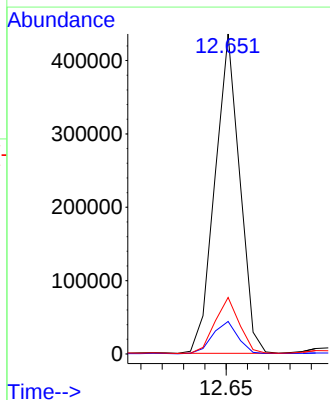
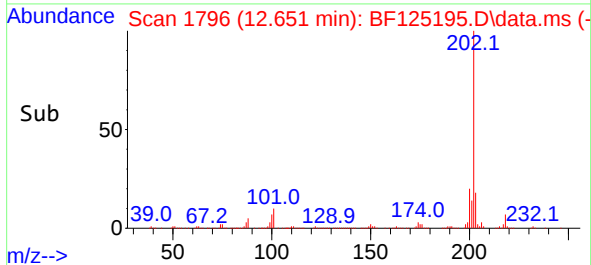
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 Ion Ratio Lower Upper  
 178 100  
 176 16.6 14.3 21.5  
 179 16.3 12.2 18.4



#75  
 Fluoranthene  
 Concen: 14.711 ng  
 RT: 12.651 min Scan# 1796  
 Delta R.T. 0.000 min  
 Lab File: BF125195.D  
 Acq: 24 Aug 2021 20:37



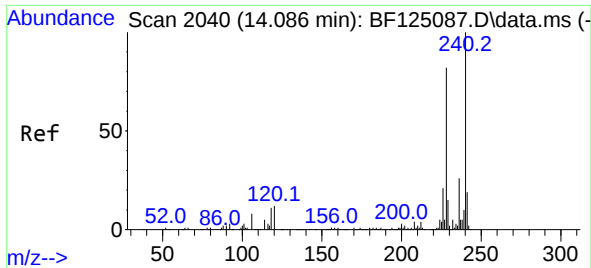
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Instrument :  
 BNA\_F  
 ClientSampled :  
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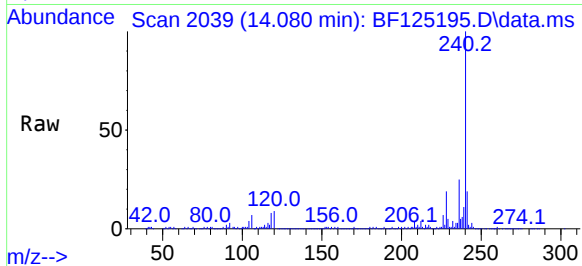
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#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.080 min Scan# 2039  
Delta R.T. 0.000 min  
Lab File: BF125195.D  
Acq: 24 Aug 2021 20:37

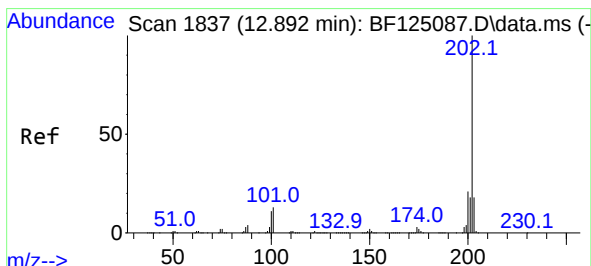
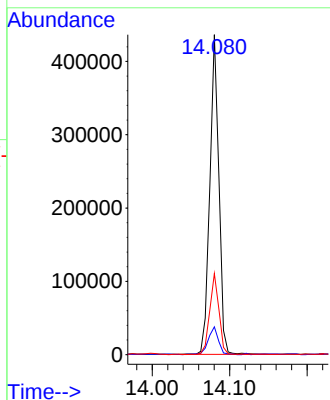
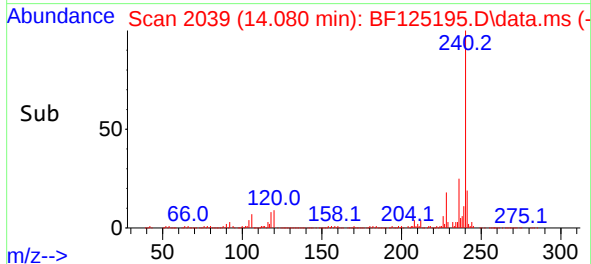
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BNA\_F  
ClientSampled :  
130-A



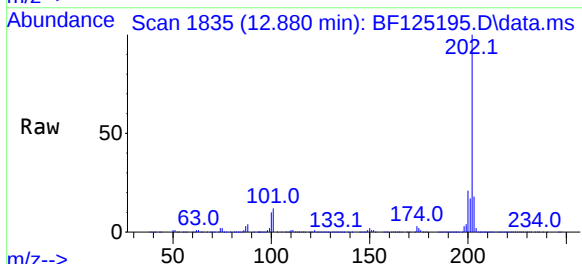
Tgt Ion:240 Resp: 354142  
Ion Ratio Lower Upper  
240 100  
120 8.7 10.8 16.2#  
236 25.4 21.6 32.4

Manual Integrations  
APPROVED

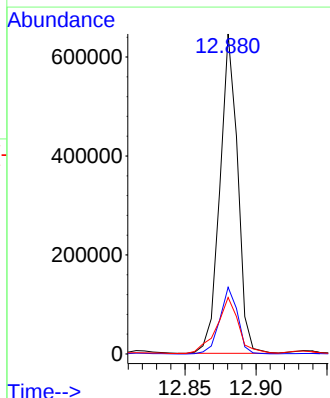
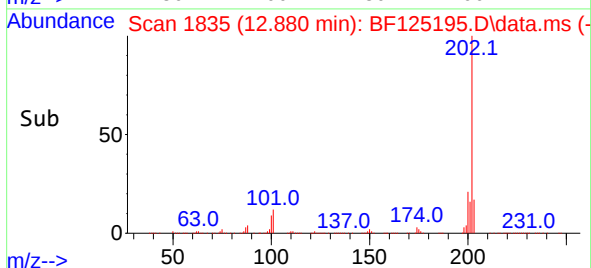
mohammad  
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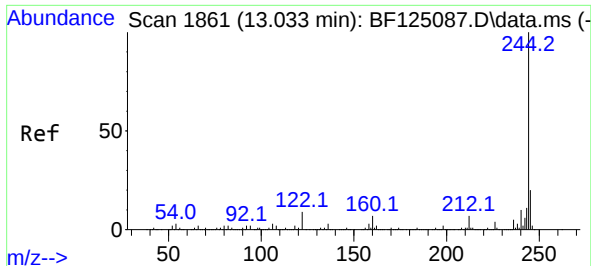


#78  
Pyrene  
Concen: 18.512 ng  
RT: 12.880 min Scan# 1835  
Delta R.T. -0.006 min  
Lab File: BF125195.D  
Acq: 24 Aug 2021 20:37



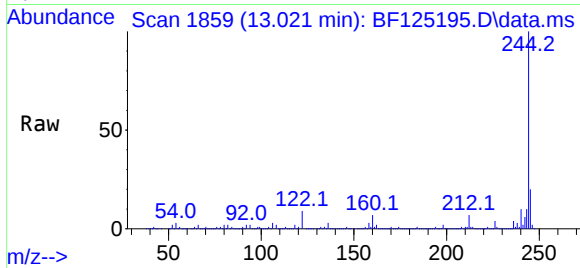
Tgt Ion:202 Resp: 562373  
Ion Ratio Lower Upper  
202 100  
200 20.9 15.3 22.9  
203 17.6 13.4 20.0





#79  
Terphenyl-d14  
Concen: 51.975 ng  
RT: 13.021 min Scan# 1859  
Delta R.T. 0.000 min  
Lab File: BF125195.D  
Acq: 24 Aug 2021 20:37

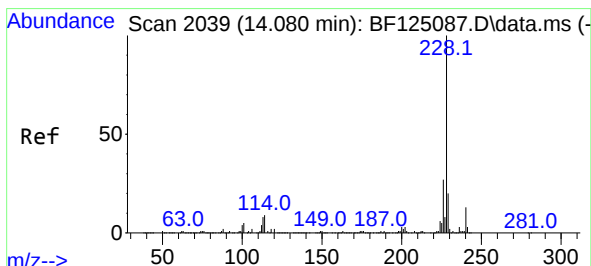
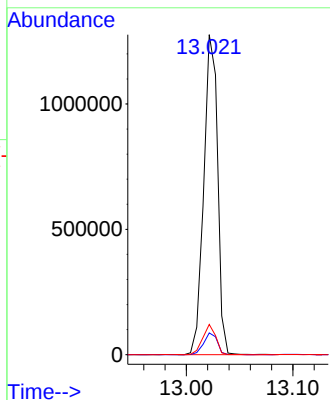
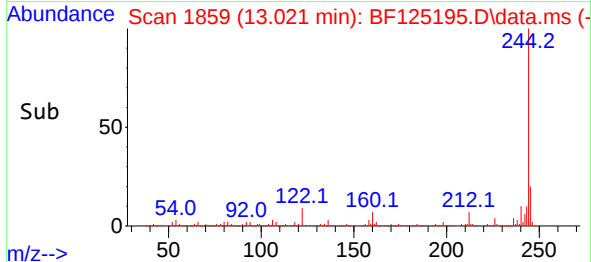
Instrument :  
BNA\_F  
ClientSampled :  
130-A



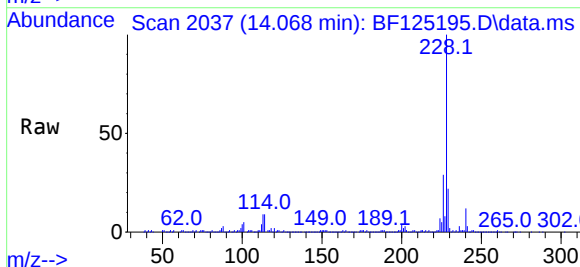
Tgt Ion:244 Resp: 1155404  
Ion Ratio Lower Upper  
244 100  
212 6.8 5.9 8.9  
122 9.5 9.0 13.4

Manual Integrations  
APPROVED

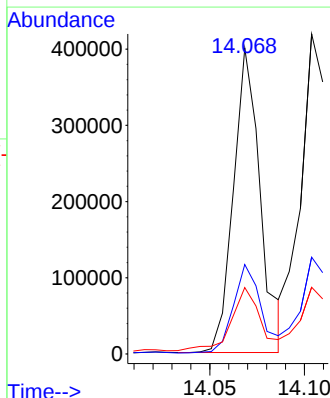
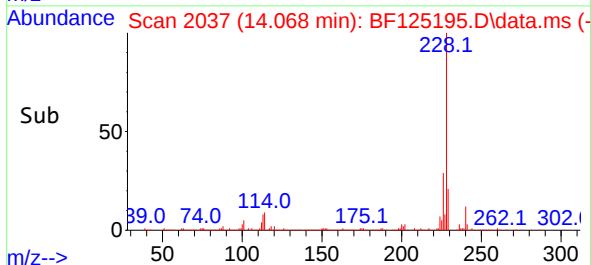
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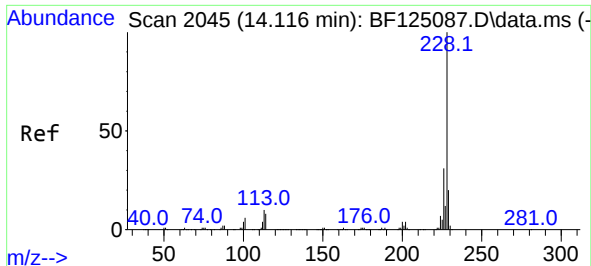


#81  
Benzo(a)anthracene  
Concen: 15.444 ng  
RT: 14.068 min Scan# 2037  
Delta R.T. 0.000 min  
Lab File: BF125195.D  
Acq: 24 Aug 2021 20:37



Tgt Ion:228 Resp: 394070  
Ion Ratio Lower Upper  
228 100  
226 29.2 21.6 32.4  
229 21.7 15.6 23.4





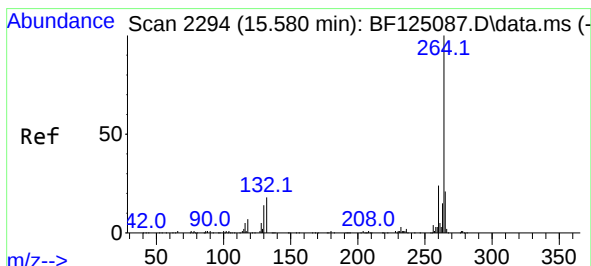
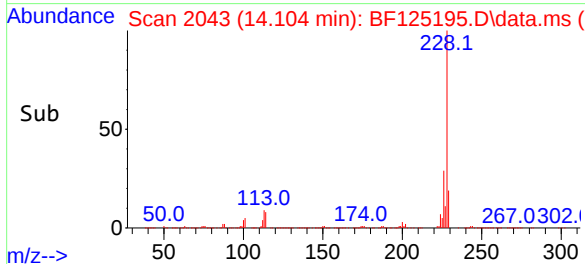
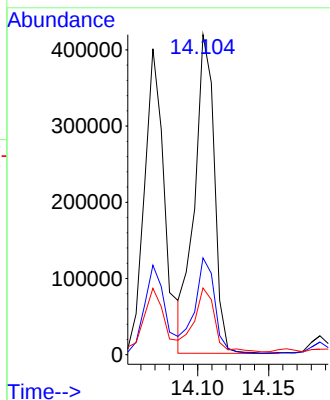
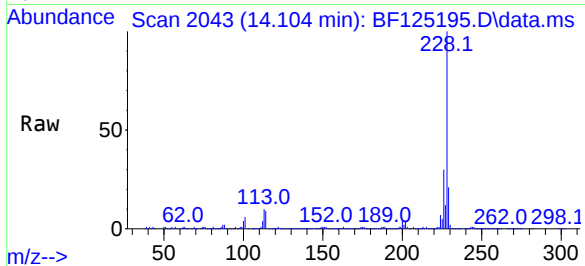
#83  
Chrysene  
Concen: 16.093 ng  
RT: 14.104 min Scan# 2043  
Delta R.T. -0.006 min  
Lab File: BF125195.D  
Acq: 24 Aug 2021 20:37

Tgt Ion:228 Resp: 406092  
Ion Ratio Lower Upper  
228 100  
226 30.3 22.6 34.0  
229 20.8 15.9 23.9

Instrument :  
BNA\_F  
ClientSampled :  
130-A

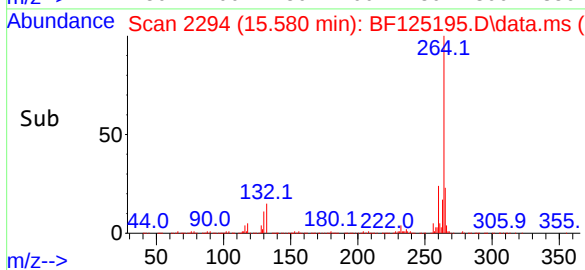
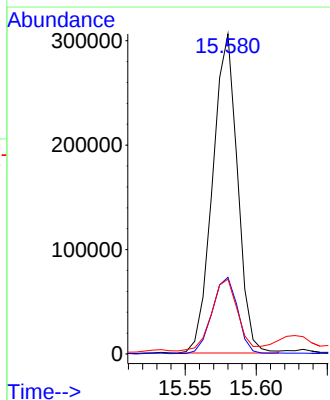
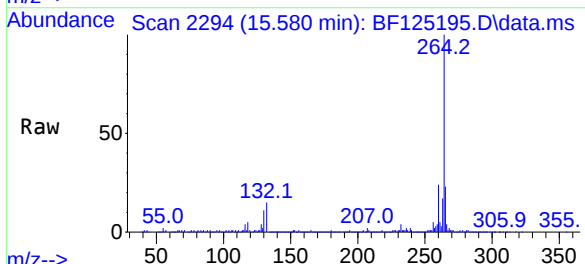
Manual Integrations  
APPROVED

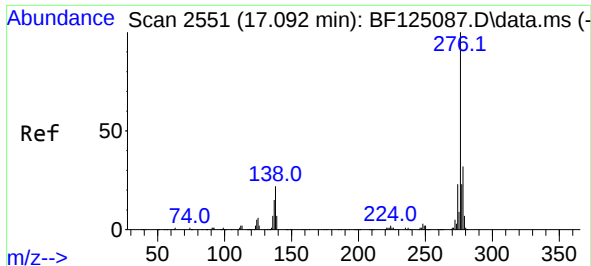
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#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.580 min Scan# 2294  
Delta R.T. 0.006 min  
Lab File: BF125195.D  
Acq: 24 Aug 2021 20:37

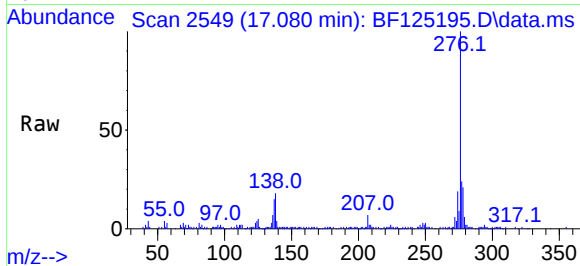
Tgt Ion:264 Resp: 372724  
Ion Ratio Lower Upper  
264 100  
260 24.0 19.6 29.4  
265 23.4 17.2 25.8





#87  
Indeno(1,2,3-cd)pyrene  
Concen: 6.049 ng  
RT: 17.080 min Scan# 2549  
Delta R.T. -0.012 min  
Lab File: BF125195.D  
Acq: 24 Aug 2021 20:37

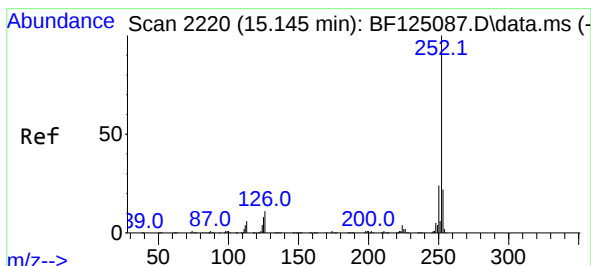
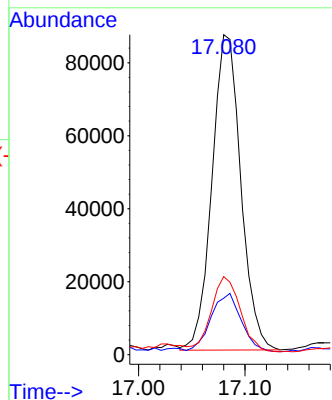
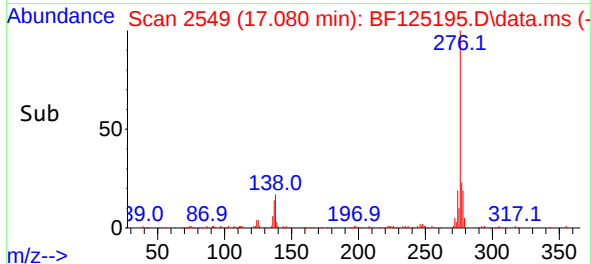
Instrument :  
BNA\_F  
ClientSampled :  
130-A



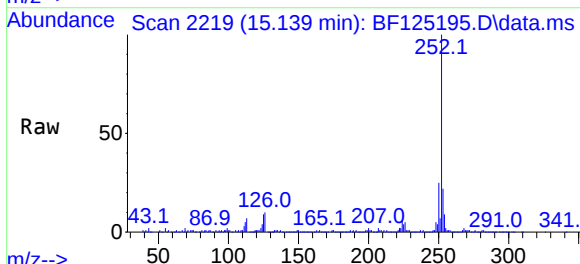
Tgt Ion:276 Resp: 162415  
Ion Ratio Lower Upper  
276 100  
138 19.4 24.1 36.1#  
277 24.1 18.8 28.2

Manual Integrations  
APPROVED

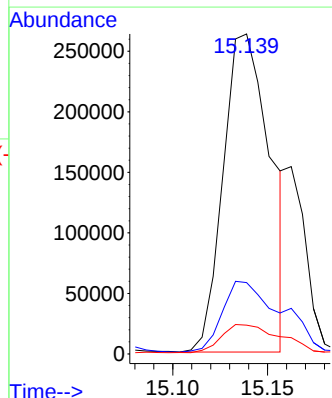
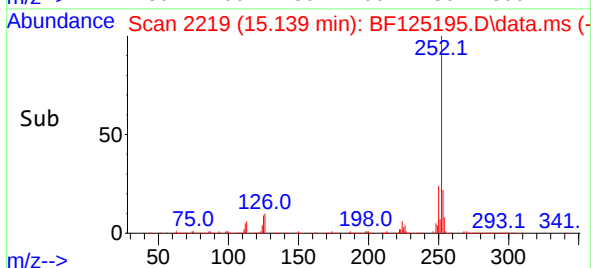
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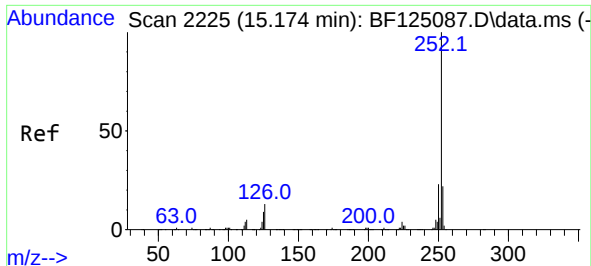


#88  
Benzo(b)fluoranthene  
Concen: 16.736 ng m  
RT: 15.139 min Scan# 2219  
Delta R.T. 0.006 min  
Lab File: BF125195.D  
Acq: 24 Aug 2021 20:37



Tgt Ion:252 Resp: 455734  
Ion Ratio Lower Upper  
252 100  
253 22.3 16.8 25.2  
125 9.0 9.8 14.8#





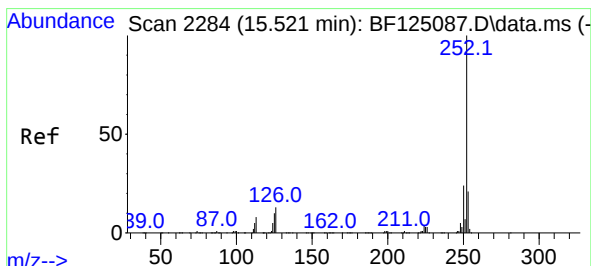
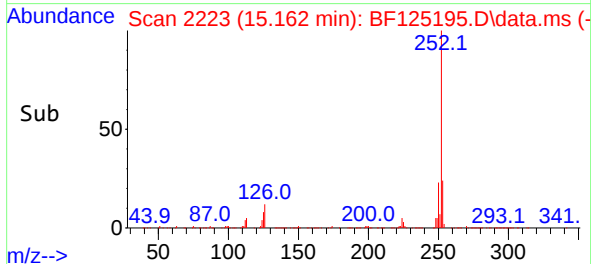
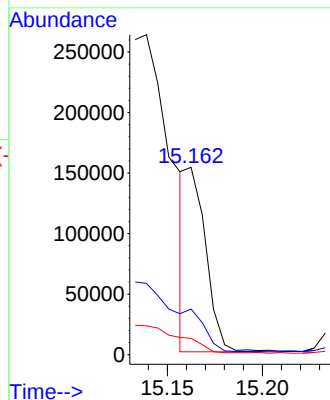
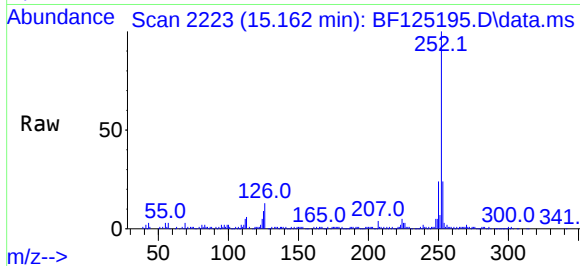
#89  
Benzo(k)fluoranthene  
Concen: 4.320 ng m  
RT: 15.162 min Scan# 2223  
Delta R.T. -0.006 min  
Lab File: BF125195.D  
Acq: 24 Aug 2021 20:37

Tgt Ion:252 Resp: 109759  
Ion Ratio Lower Upper  
252 100  
253 24.3 17.8 26.8  
125 8.7 7.2 10.8

Instrument :  
BNA\_F  
ClientSampled :  
130-A

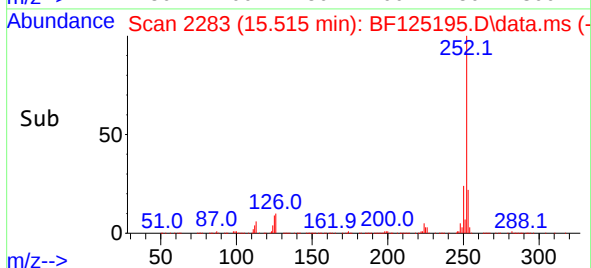
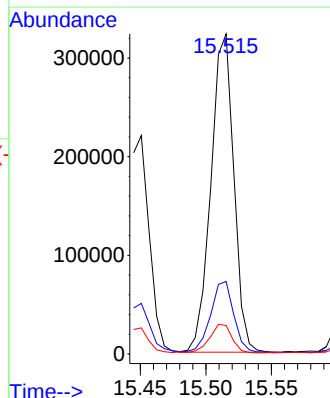
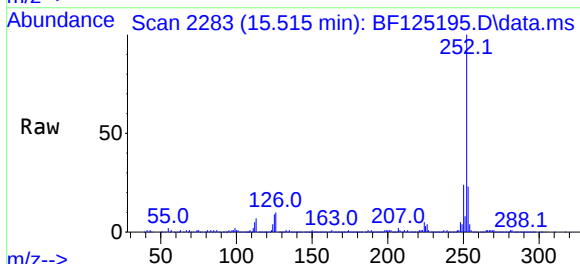
Manual Integrations  
APPROVED

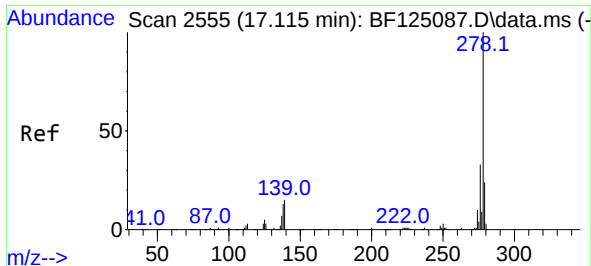
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#90  
Benzo(a)pyrene  
Concen: 16.285 ng m  
RT: 15.515 min Scan# 2283  
Delta R.T. 0.000 min  
Lab File: BF125195.D  
Acq: 24 Aug 2021 20:37

Tgt Ion:252 Resp: 391716  
Ion Ratio Lower Upper  
252 100  
253 22.7 18.4 27.6  
125 8.9 9.9 14.9#





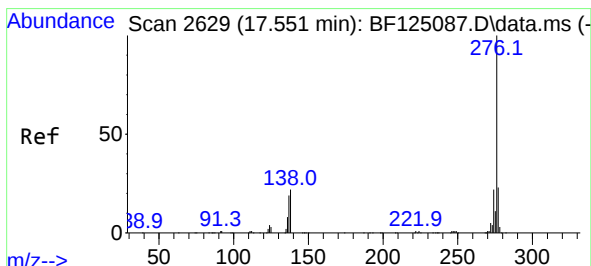
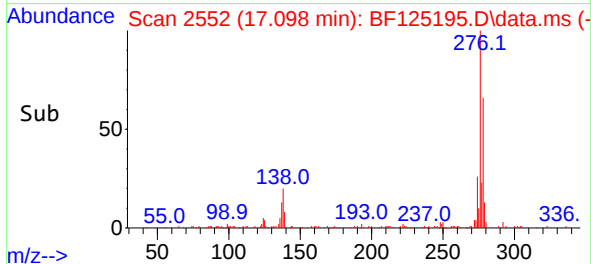
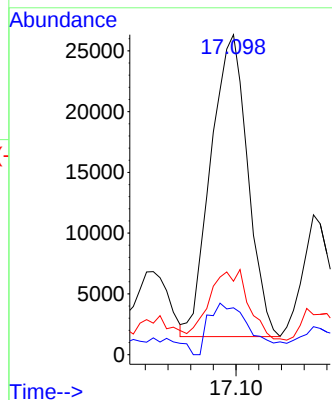
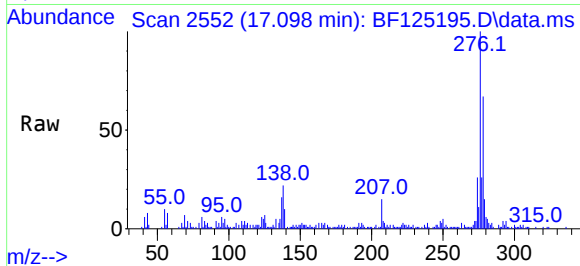
#91  
Dibenzo(a,h)anthracene  
Concen: 2.416 ng m  
RT: 17.098 min Scan# 2552  
Delta R.T. -0.012 min  
Lab File: BF125195.D  
Acq: 24 Aug 2021 20:37

Tgt Ion: 278 Resp: 56070  
Ion Ratio Lower Upper  
278 100  
139 14.6 14.9 22.3#  
279 22.9 19.7 29.5

Instrument :  
BNA\_F  
ClientSampled :  
130-A

Manual Integrations  
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#92  
Benzo(g,h,i)perylene  
Concen: 7.044 ng m  
RT: 17.539 min Scan# 2627  
Delta R.T. -0.012 min  
Lab File: BF125195.D  
Acq: 24 Aug 2021 20:37

Tgt Ion: 276 Resp: 157641  
Ion Ratio Lower Upper  
276 100  
277 24.3 22.0 33.0  
138 21.7 22.2 33.4#

