

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF080921\  
 Data File : BF125014.D  
 Acq On : 9 Aug 2021 22:07  
 Operator : JU/CG  
 Sample : M3281-01  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TWP03

Manual Integrations  
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Quant Time: Aug 10 04:46:26 2021  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF080421.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Aug 09 11:03:44 2021  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-----------------------------|--------|------|----------|---------|-------|----------|
| -----                       |        |      |          |         |       |          |
| Internal Standards          |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.822  | 152  | 4870     | 20.000  | ng    | # 0.00   |
| 21) Naphthalene-d8          | 8.116  | 136  | 16154    | 20.000  | ng    | # 0.01   |
| 39) Acenaphthene-d10        | 9.886  | 164  | 7438     | 20.000  | ng    | 0.02     |
| 64) Phenanthrene-d10        | 11.374 | 188  | 12627    | 20.000  | ng    | # 0.03   |
| 76) Chrysene-d12            | 13.980 | 240  | 12678    | 20.000  | ng    | 0.00     |
| 86) Perylene-d12            | 15.439 | 264  | 9866     | 20.000  | ng    | 0.00     |
|                             |        |      |          |         |       |          |
| System Monitoring Compounds |        |      |          |         |       |          |
| 5) 2-Fluorophenol           | 5.434  | 112  | 31963    | 107.513 | ng    | 0.00     |
| 7) Phenol-d6                | 6.451  | 99   | 40872    | 109.031 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.386  | 82   | 30200    | 97.799  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.675 | 330  | 5331     | 80.225  | ng    | 0.02     |
| 45) 2-Fluorobiphenyl        | 9.204  | 172  | 37545    | 73.860  | ng    | 0.02     |
| 79) Terphenyl-d14           | 12.933 | 244  | 43722    | 58.173  | ng    | 0.00     |
|                             |        |      |          |         |       |          |
| Target Compounds            |        |      |          |         |       | Qvalue   |
| 31) Naphthalene             | 8.139  | 128  | 19558    | 23.565  | ng    | # 81     |
| 37) 2-Methylnaphthalene     | 8.845  | 142  | 32822    | 58.818  | ng    | 98       |
| 38) 1-Methylnaphthalene     | 8.939  | 142  | 21308    | 40.809  | ng    | 92       |
| 46) 1,1'-Biphenyl           | 9.304  | 154  | 3188m    | 5.752   | ng    |          |
| 52) Acenaphthene            | 9.922  | 154  | 8942     | 22.020  | ng    | # 65     |
| 58) Fluorene                | 10.439 | 166  | 24210    | 49.752  | ng    | # 92     |
| 71) Phenanthrene            | 11.398 | 178  | 60576    | 88.437  | ng    | # 95     |
| 72) Anthracene              | 11.451 | 178  | 5610     | 8.164   | ng    | # 55     |
| 75) Fluoranthene            | 12.580 | 202  | 4826     | 6.811   | ng    | 83       |
| 78) Pyrene                  | 12.798 | 202  | 8464     | 8.476   | ng    | # 93     |
| 81) Benzo(a)anthracene      | 13.974 | 228  | 2000     | 2.421   | ng    | # 82     |
| 83) Chrysene                | 14.010 | 228  | 2880     | 3.606   | ng    | # 85     |
| 88) Benzo(b)fluoranthene    | 15.010 | 252  | 2248m    | 3.245   | ng    |          |
| 90) Benzo(a)pyrene          | 15.374 | 252  | 1201     | 2.036   | ng    | # 78     |
| -----                       |        |      |          |         |       |          |

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

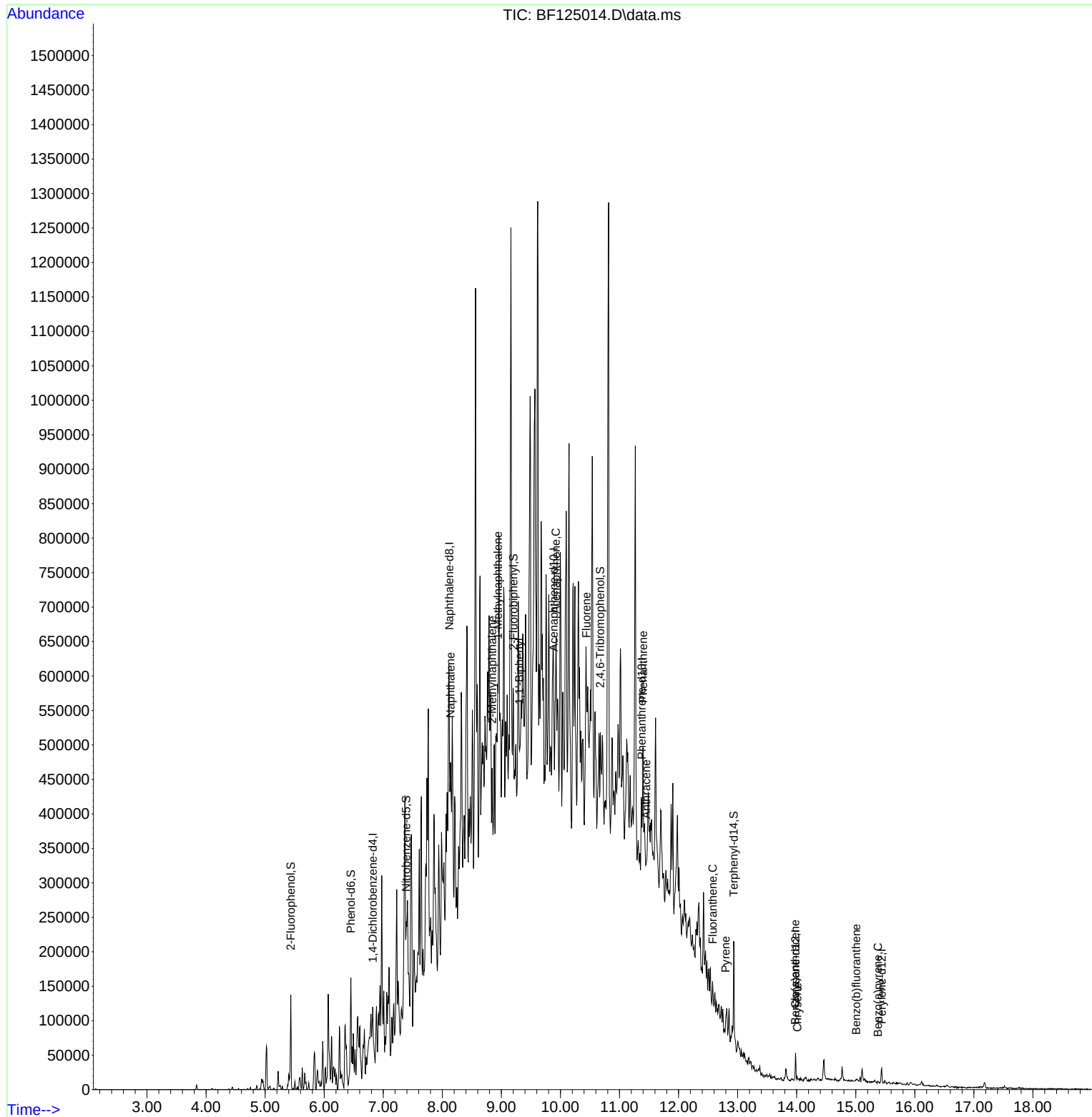
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF080921\  
Data File : BF125014.D  
Acq On : 9 Aug 2021 22:07  
Operator : JU/CG  
Sample : M3281-01  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

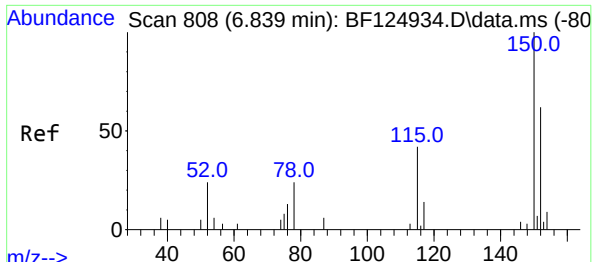
Instrument :  
BNA\_F  
ClientSampleId :  
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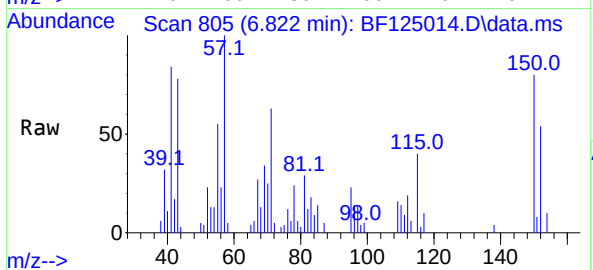
Quant Time: Aug 10 04:46:26 2021  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF080421.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Aug 09 11:03:44 2021  
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.822 min Scan# 805  
Delta R.T. -0.000 min  
Lab File: BF125014.D  
Acq: 9 Aug 2021 22:07

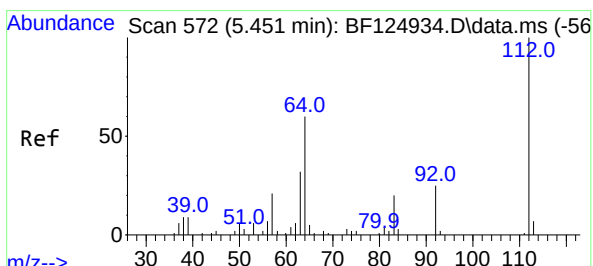
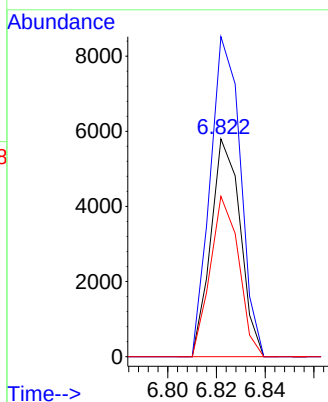
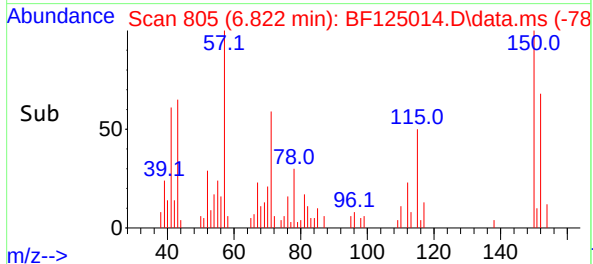
Instrument :  
BNA\_F  
ClientSampled :  
TWP03



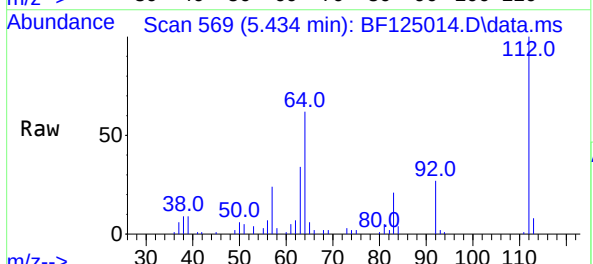
Tgt Ion:152 Resp: 4870  
Ion Ratio Lower Upper  
152 100  
150 146.9 117.6 176.4  
115 73.6 47.1 70.7#

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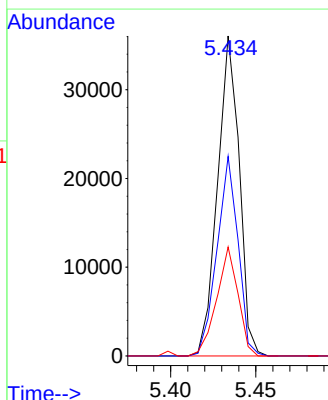
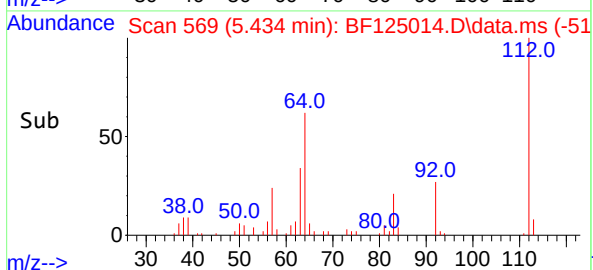
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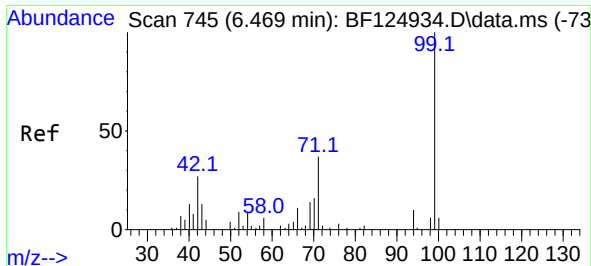


#5  
2-Fluorophenol  
Concen: 107.513 ng  
RT: 5.434 min Scan# 569  
Delta R.T. -0.006 min  
Lab File: BF125014.D  
Acq: 9 Aug 2021 22:07



Tgt Ion:112 Resp: 31963  
Ion Ratio Lower Upper  
112 100  
64 62.3 44.2 66.2  
63 34.1 26.2 39.2





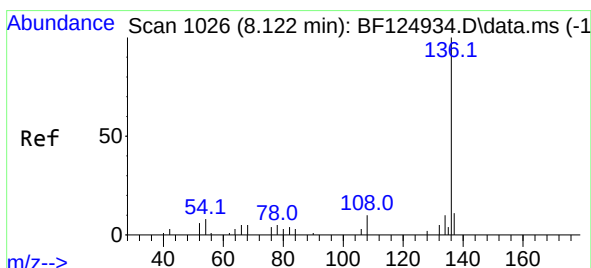
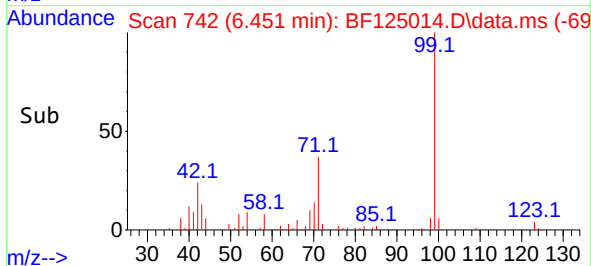
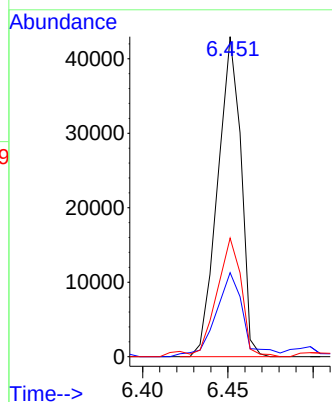
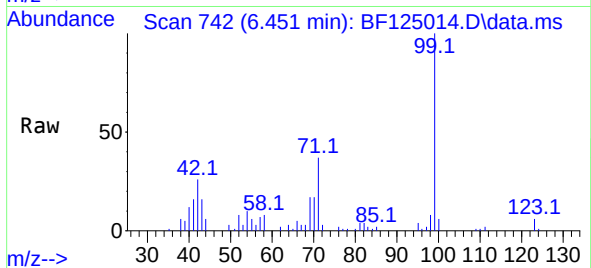
#7  
Phenol-d6  
Concen: 109.031 ng  
RT: 6.451 min Scan# 742  
Delta R.T. -0.006 min  
Lab File: BF125014.D  
Acq: 9 Aug 2021 22:07

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 40872 |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 26.3  | 23.5  | 35.3  |
| 71       | 37.0  | 25.6  | 38.4  |

Instrument :  
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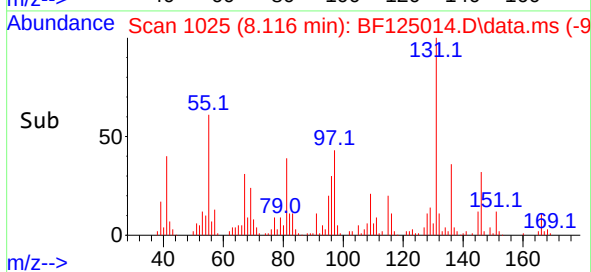
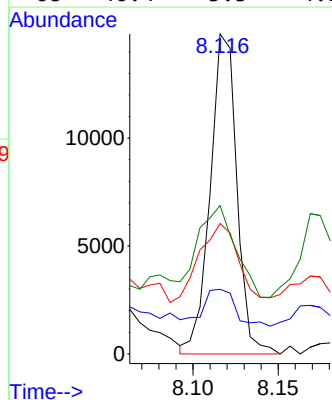
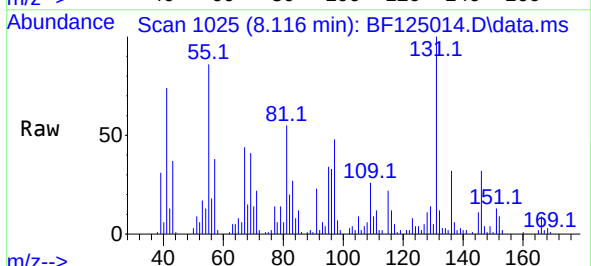
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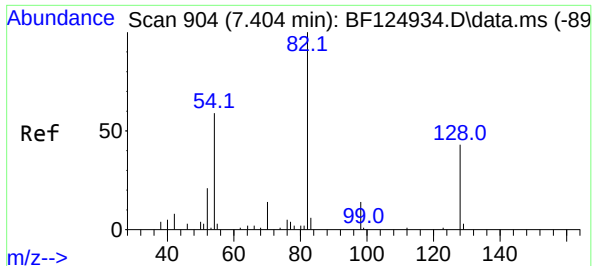
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#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.116 min Scan# 1025  
Delta R.T. 0.012 min  
Lab File: BF125014.D  
Acq: 9 Aug 2021 22:07

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 16154 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 20.2  | 9.8   | 14.6# |
| 54       | 40.7  | 6.4   | 9.6#  |
| 68       | 46.4  | 3.3   | 4.9#  |





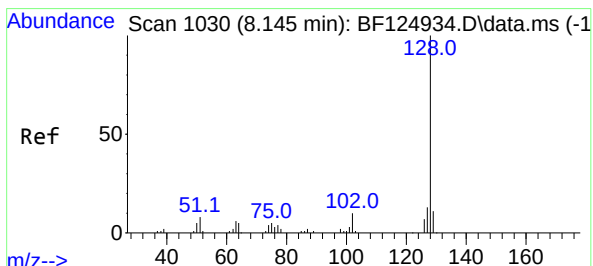
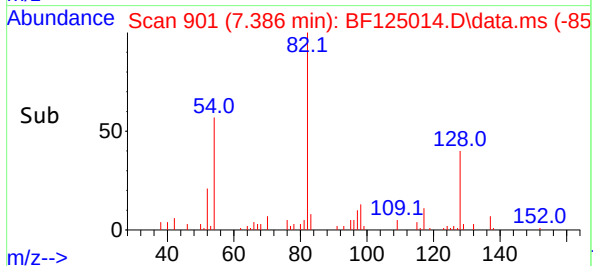
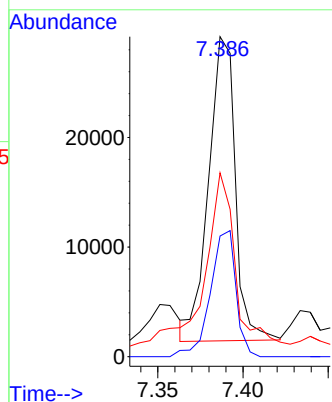
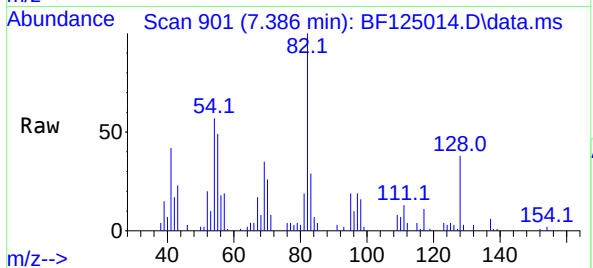
#23  
Nitrobenzene-d5  
Concen: 97.799 ng  
RT: 7.386 min Scan# 901  
Delta R.T. -0.006 min  
Lab File: BF125014.D  
Acq: 9 Aug 2021 22:07

Tgt Ion: 82 Resp: 30200  
Ion Ratio Lower Upper  
82 100  
128 37.7 40.6 60.8#  
54 57.4 49.6 74.4

Instrument :  
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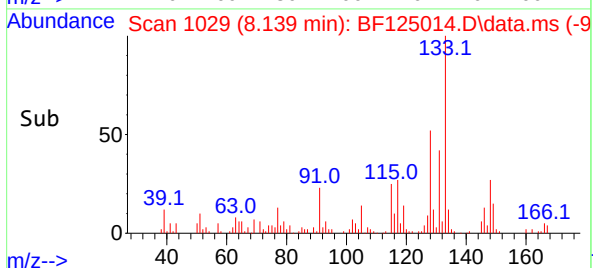
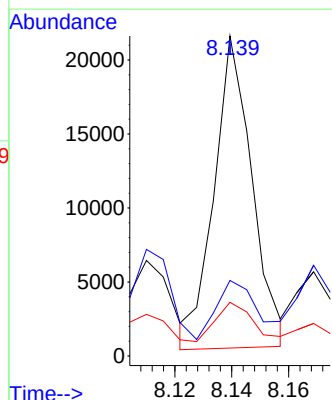
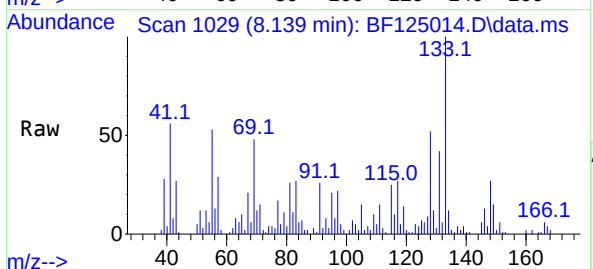
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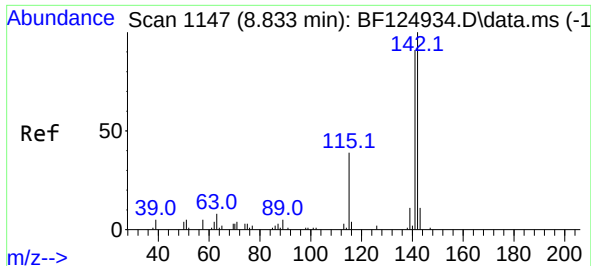
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#31  
Naphthalene  
Concen: 23.565 ng  
RT: 8.139 min Scan# 1029  
Delta R.T. 0.012 min  
Lab File: BF125014.D  
Acq: 9 Aug 2021 22:07

Tgt Ion:128 Resp: 19558  
Ion Ratio Lower Upper  
128 100  
129 23.6 9.4 14.0#  
127 16.8 10.9 16.3#





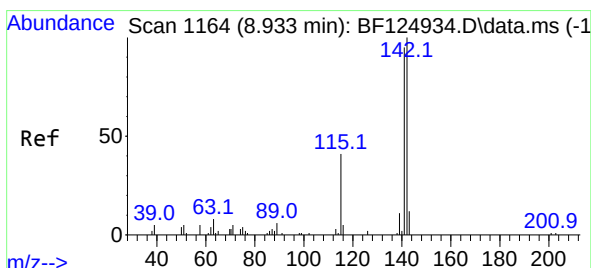
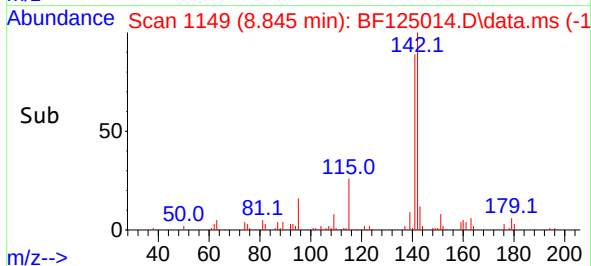
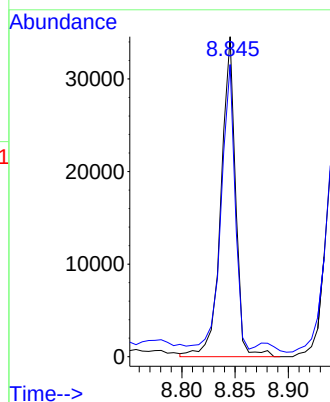
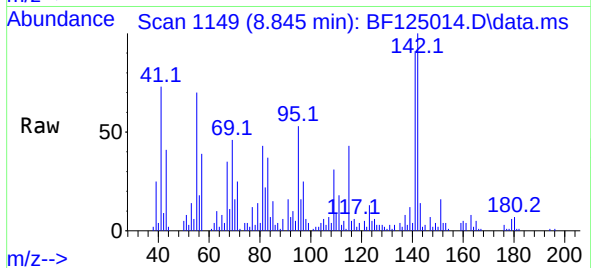
#37  
2-Methylnaphthalene  
Concen: 58.818 ng  
RT: 8.845 min Scan# 1149  
Delta R.T. 0.030 min  
Lab File: BF125014.D  
Acq: 9 Aug 2021 22:07

Tgt Ion:142 Resp: 32822  
Ion Ratio Lower Upper  
142 100  
141 91.3 71.2 106.8

Instrument :  
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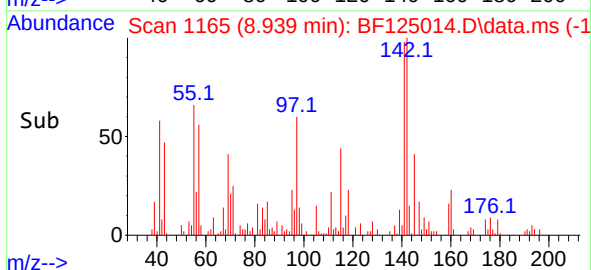
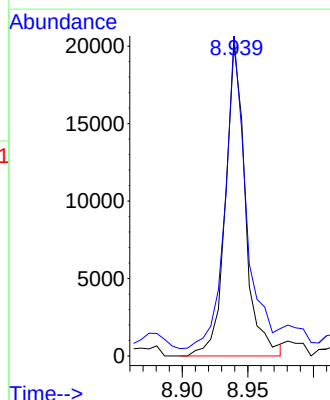
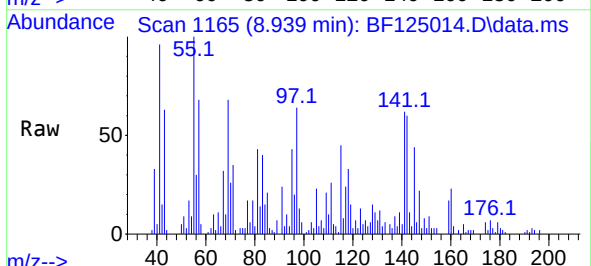
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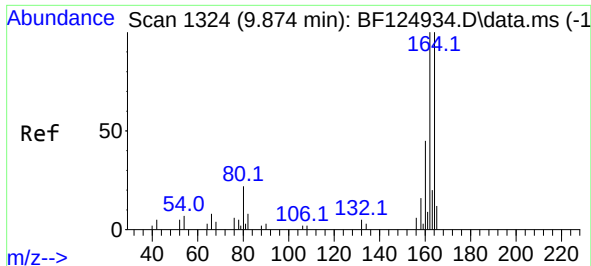
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#38  
1-Methylnaphthalene  
Concen: 40.809 ng  
RT: 8.939 min Scan# 1165  
Delta R.T. 0.024 min  
Lab File: BF125014.D  
Acq: 9 Aug 2021 22:07

Tgt Ion:142 Resp: 21308  
Ion Ratio Lower Upper  
142 100  
141 102.8 76.0 114.0





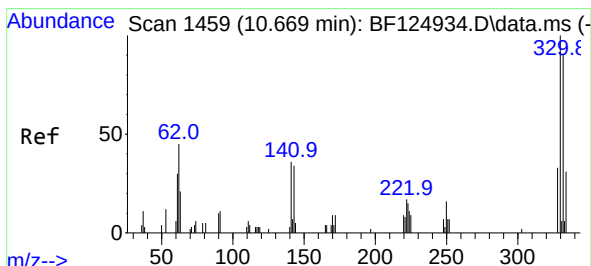
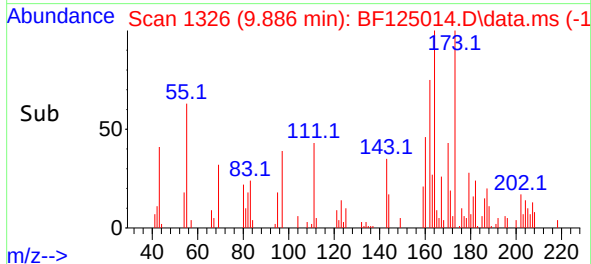
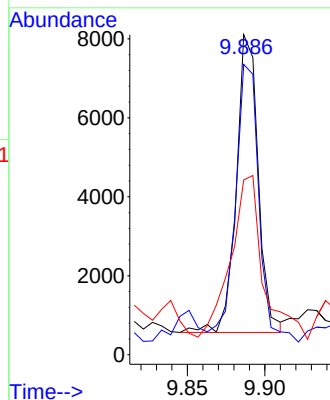
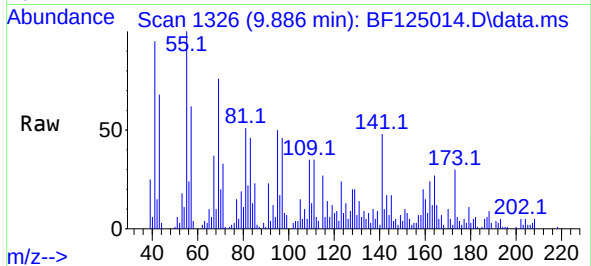
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.886 min Scan# 1326  
Delta R.T. 0.024 min  
Lab File: BF125014.D  
Acq: 9 Aug 2021 22:07

Tgt Ion:164 Resp: 7438  
Ion Ratio Lower Upper  
164 100  
162 90.7 81.3 121.9  
160 54.6 38.0 57.0

Instrument :  
BNA\_F  
ClientSampled :  
TWP03

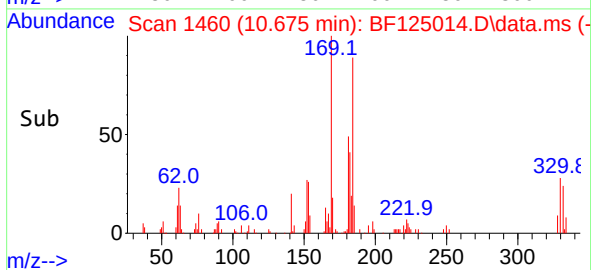
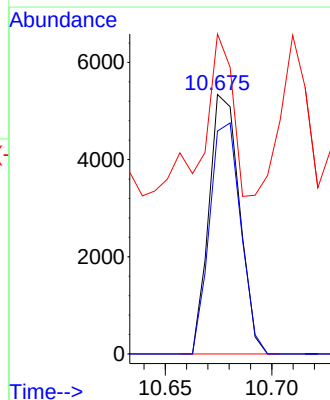
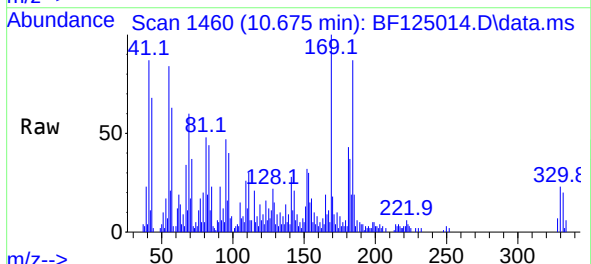
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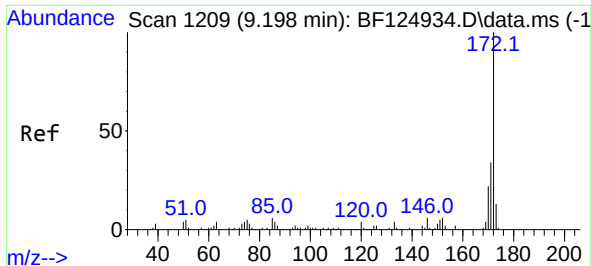
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#42  
2,4,6-Tribromophenol  
Concen: 80.225 ng  
RT: 10.675 min Scan# 1460  
Delta R.T. 0.024 min  
Lab File: BF125014.D  
Acq: 9 Aug 2021 22:07

Tgt Ion:330 Resp: 5331  
Ion Ratio Lower Upper  
330 100  
332 91.0 76.2 114.4  
141 57.4 44.6 66.8





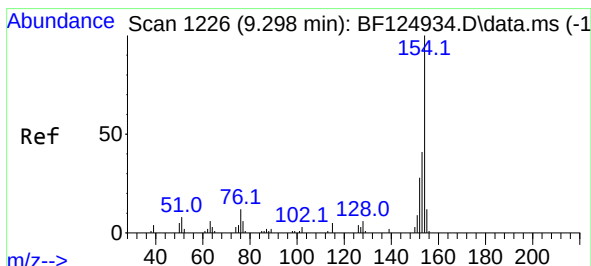
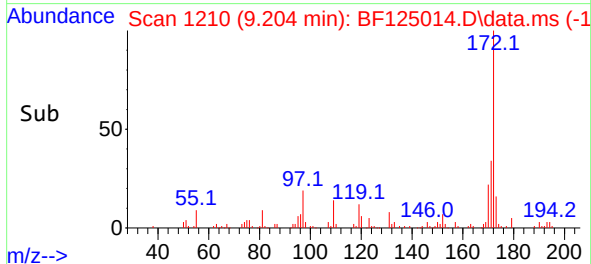
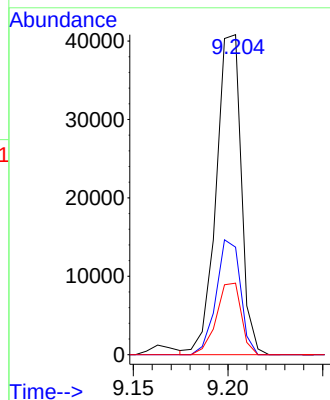
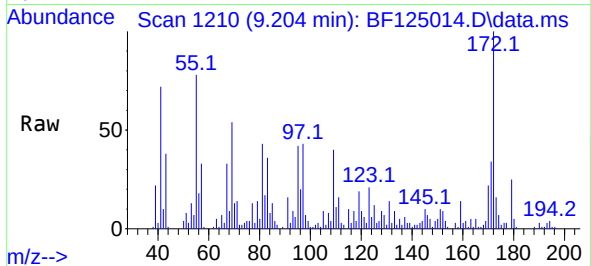
#45  
2-Fluorobiphenyl  
Concen: 73.860 ng  
RT: 9.204 min Scan# 1210  
Delta R.T. 0.024 min  
Lab File: BF125014.D  
Acq: 9 Aug 2021 22:07

Tgt Ion:172 Resp: 37545  
Ion Ratio Lower Upper  
172 100  
171 33.6 26.5 39.7  
170 22.4 18.8 28.2

Instrument :  
BNA\_F  
ClientSampled :  
TWP03

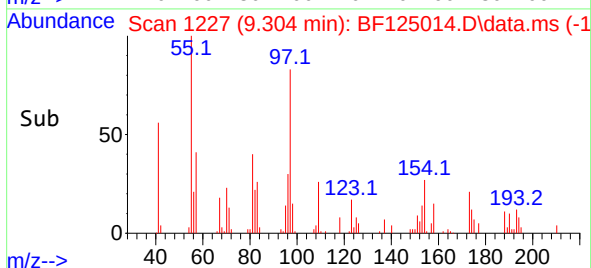
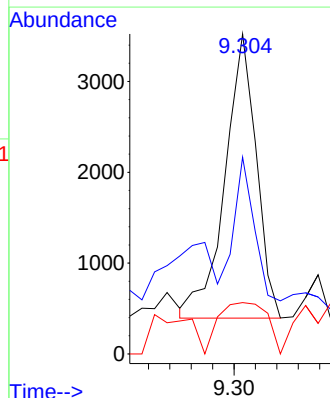
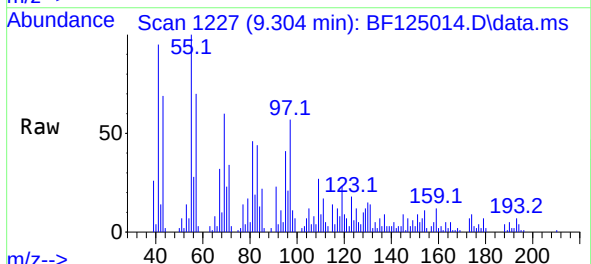
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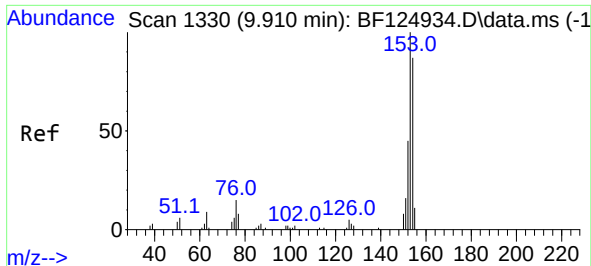


#46  
1,1'-Biphenyl  
Concen: 5.752 ng m  
RT: 9.304 min Scan# 1227  
Delta R.T. 0.024 min  
Lab File: BF125014.D  
Acq: 9 Aug 2021 22:07

Tgt Ion:154 Resp: 3188  
Ion Ratio Lower Upper  
154 100  
153 61.5 20.0 60.0#  
76 16.1 0.0 30.3







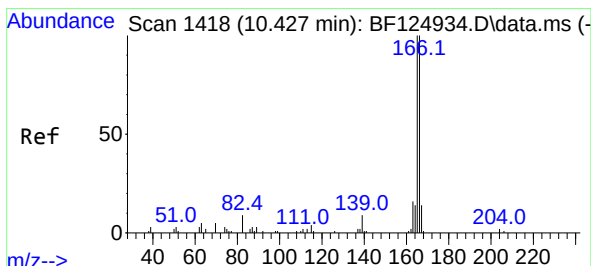
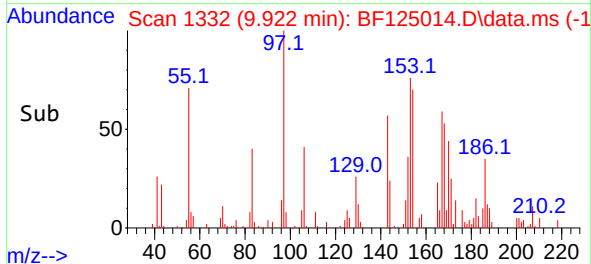
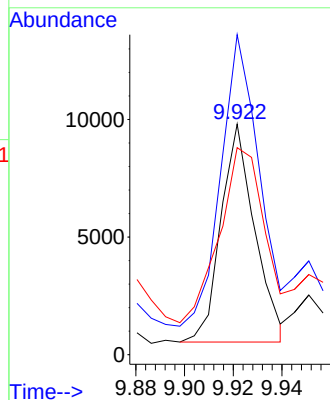
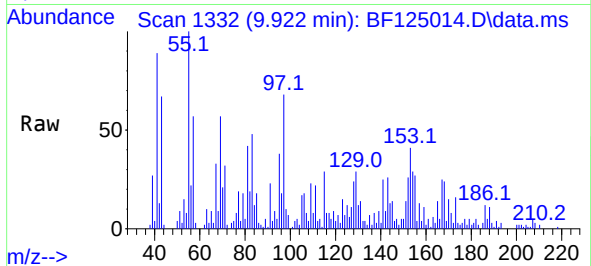
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Acenaphthene  
Concen: 22.020 ng  
RT: 9.922 min Scan# 1332  
Delta R.T. 0.030 min  
Lab File: BF125014.D  
Acq: 9 Aug 2021 22:07

Tgt Ion:154 Resp: 8942  
Ion Ratio Lower Upper  
154 100  
153 138.8 89.4 134.2#  
152 89.8 40.5 60.7#

Instrument :  
BNA\_F  
ClientSampleId :  
TWP03

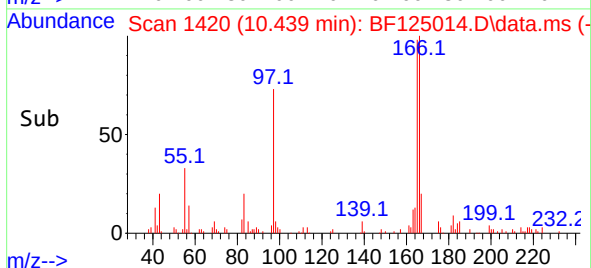
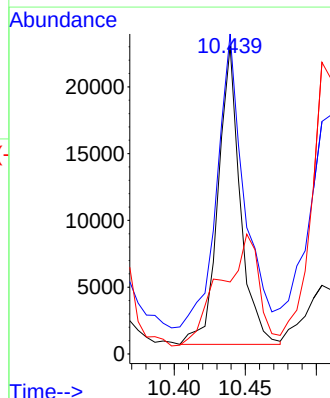
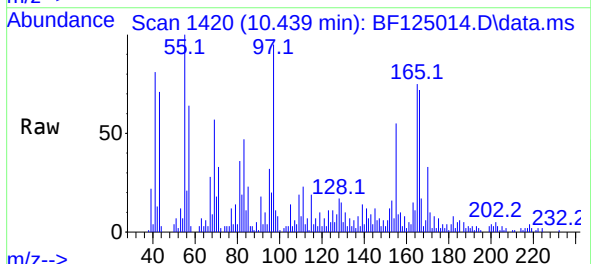
Manual Integrations  
APPROVED

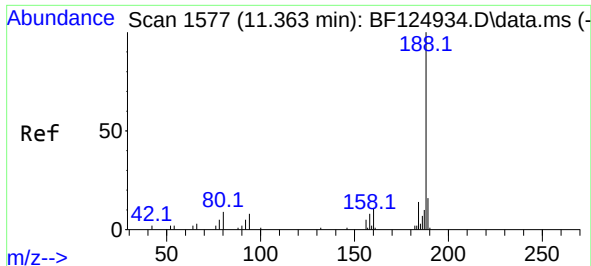
mohammad  
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#58  
Fluorene  
Concen: 49.752 ng  
RT: 10.439 min Scan# 1420  
Delta R.T. 0.030 min  
Lab File: BF125014.D  
Acq: 9 Aug 2021 22:07

Tgt Ion:166 Resp: 24210  
Ion Ratio Lower Upper  
166 100  
165 103.8 78.1 117.1  
167 23.4 11.1 16.7#





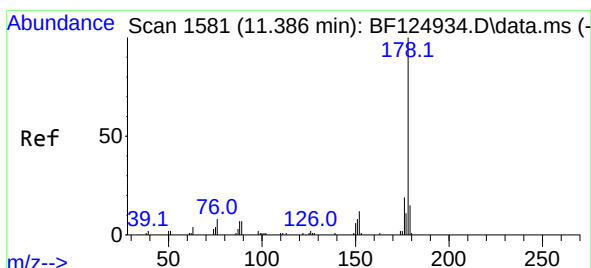
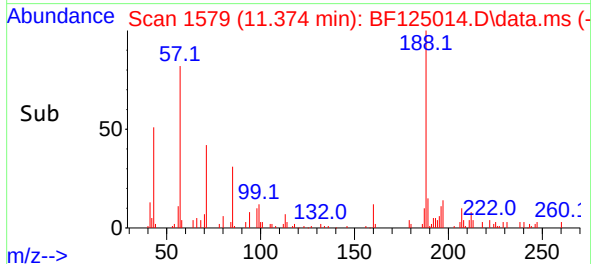
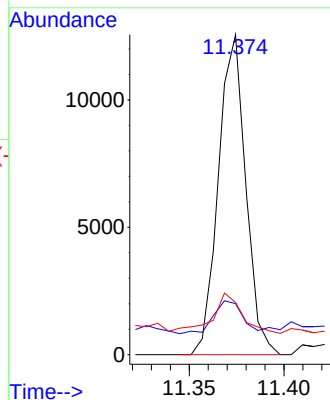
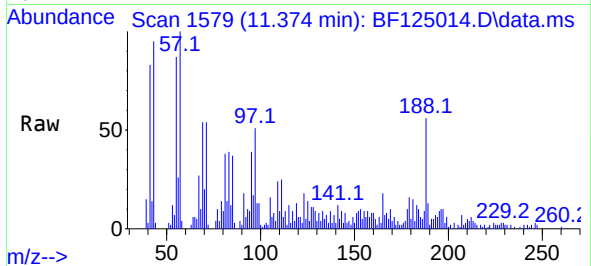
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.374 min Scan# 1579  
Delta R.T. 0.030 min  
Lab File: BF125014.D  
Acq: 9 Aug 2021 22:07

Tgt Ion:188 Resp: 12627  
Ion Ratio Lower Upper  
188 100  
94 15.9 6.7 10.1#  
80 16.3 7.5 11.3#

Instrument :  
BNA\_F  
ClientSampled :  
TWP03

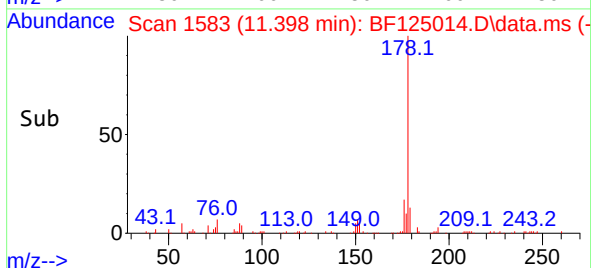
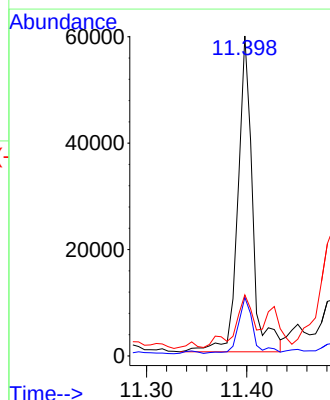
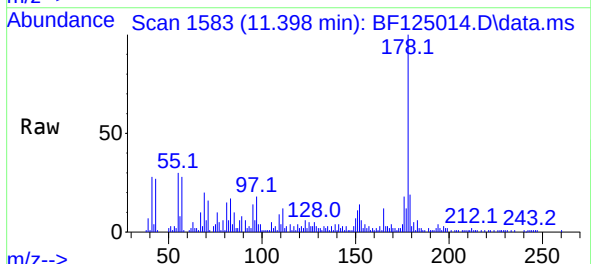
Manual Integrations  
APPROVED

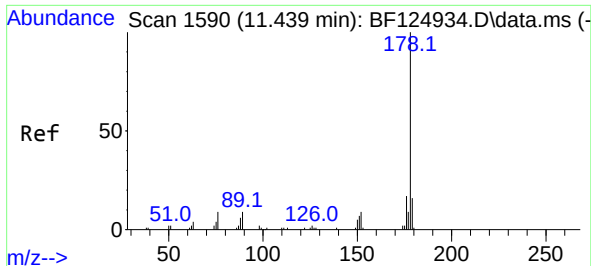
mohammad  
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#71  
Phenanthrene  
Concen: 88.437 ng  
RT: 11.398 min Scan# 1583  
Delta R.T. 0.029 min  
Lab File: BF125014.D  
Acq: 9 Aug 2021 22:07

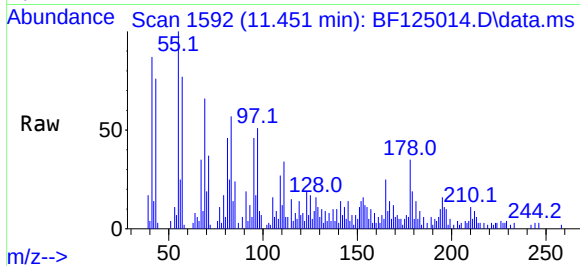
Tgt Ion:178 Resp: 60576  
Ion Ratio Lower Upper  
178 100  
176 18.3 14.7 22.1  
179 19.1 11.5 17.3#





#72  
 Anthracene  
 Concen: 8.164 ng  
 RT: 11.451 min Scan# 1592  
 Delta R.T. 0.029 min  
 Lab File: BF125014.D  
 Acq: 9 Aug 2021 22:07

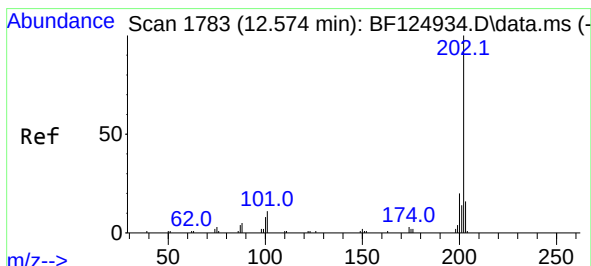
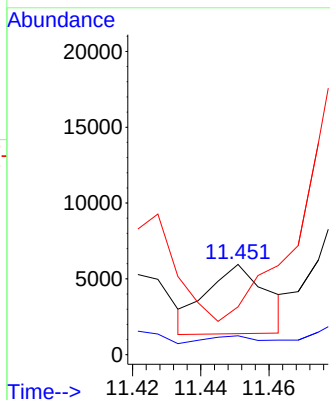
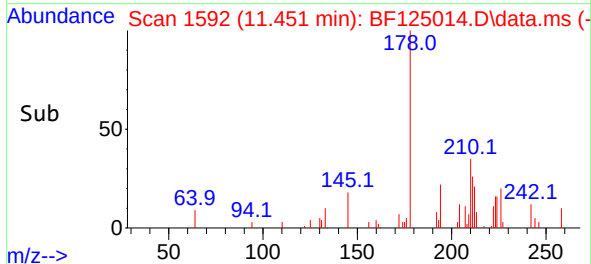
Instrument :  
 BNA\_F  
 ClientSampled :  
 TWP03



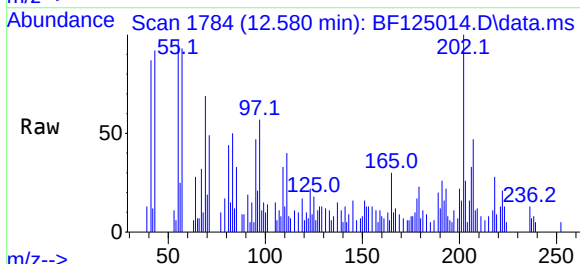
Tgt Ion:178 Resp: 5610  
 Ion Ratio Lower Upper  
 178 100  
 176 20.9 14.3 21.5  
 179 53.0 12.2 18.4#

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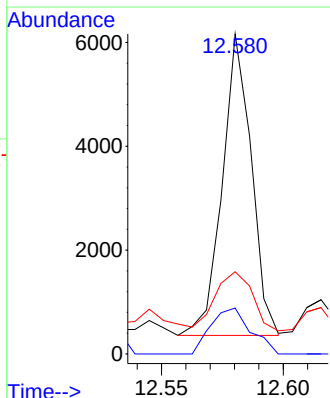
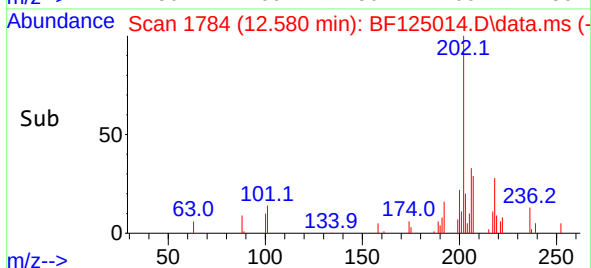
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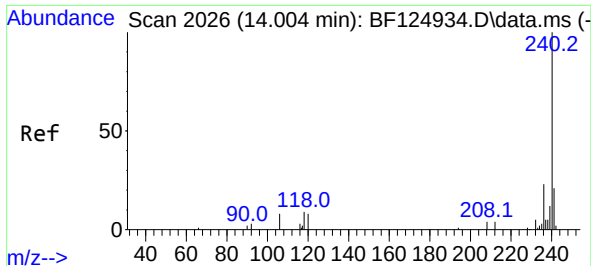


#75  
 Fluoranthene  
 Concen: 6.811 ng  
 RT: 12.580 min Scan# 1784  
 Delta R.T. 0.024 min  
 Lab File: BF125014.D  
 Acq: 9 Aug 2021 22:07



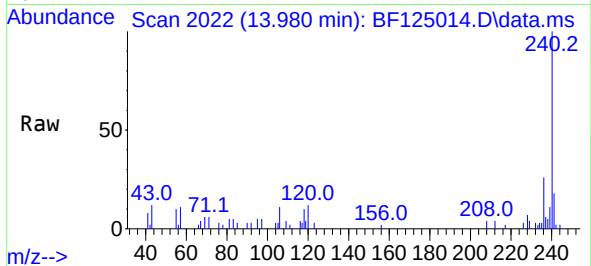
Tgt Ion:202 Resp: 4826  
 Ion Ratio Lower Upper  
 202 100  
 101 14.3 0.0 30.7  
 203 25.7 0.0 36.3





#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.980 min Scan# 2022  
Delta R.T. -0.006 min  
Lab File: BF125014.D  
Acq: 9 Aug 2021 22:07

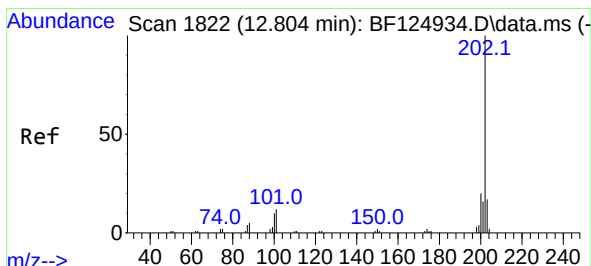
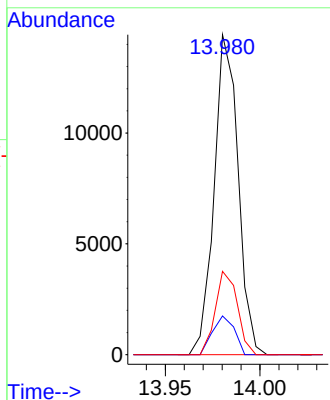
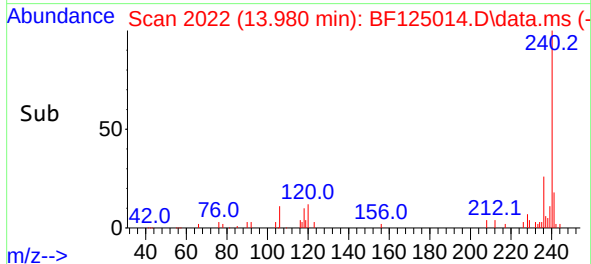
Instrument :  
BNA\_F  
ClientSampled :  
TWP03



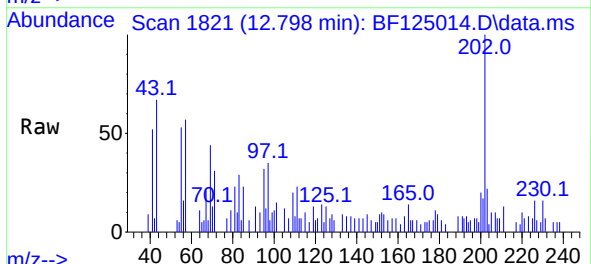
Tgt Ion:240 Resp: 12678  
Ion Ratio Lower Upper  
240 100  
120 12.1 10.8 16.2  
236 26.0 21.6 32.4

Manual Integrations  
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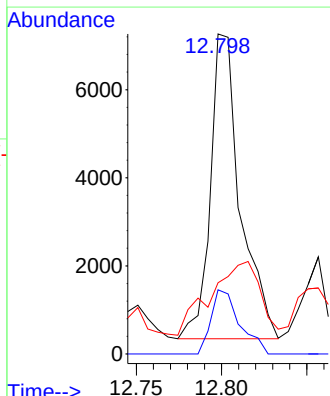
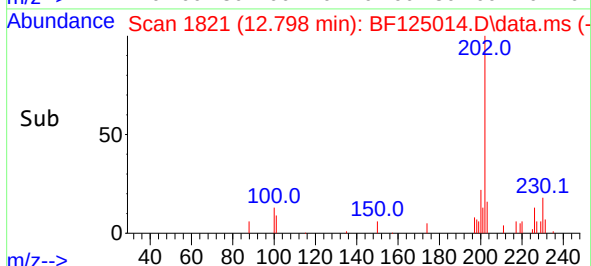
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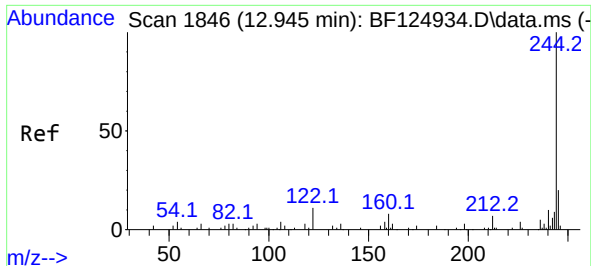


#78  
Pyrene  
Concen: 8.476 ng  
RT: 12.798 min Scan# 1821  
Delta R.T. 0.012 min  
Lab File: BF125014.D  
Acq: 9 Aug 2021 22:07



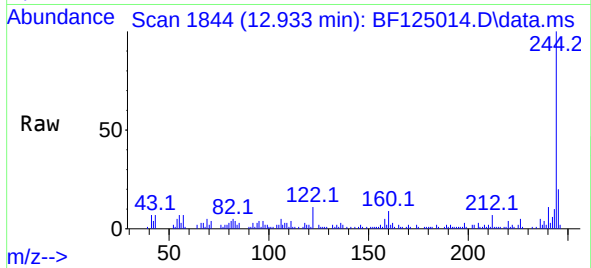
Tgt Ion:202 Resp: 8464  
Ion Ratio Lower Upper  
202 100  
200 20.0 15.3 22.9  
203 22.3 13.4 20.0#





#79  
Terphenyl-d14  
Concen: 58.173 ng  
RT: 12.933 min Scan# 1844  
Delta R.T. 0.006 min  
Lab File: BF125014.D  
Acq: 9 Aug 2021 22:07

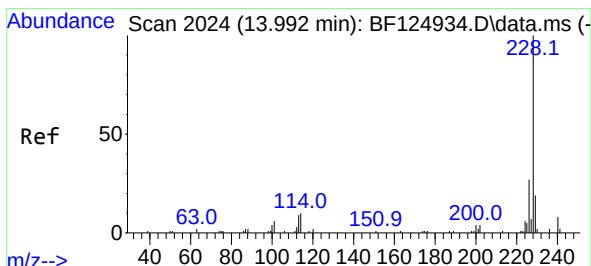
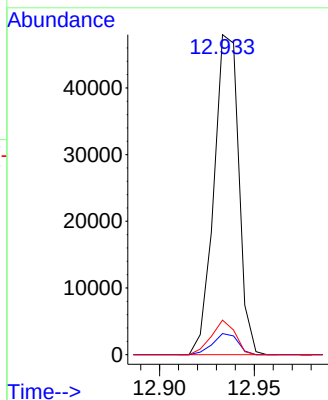
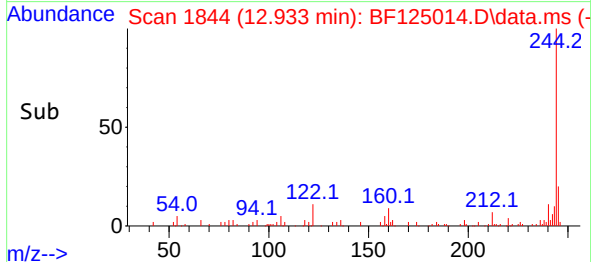
Instrument :  
BNA\_F  
ClientSampled :  
TWP03



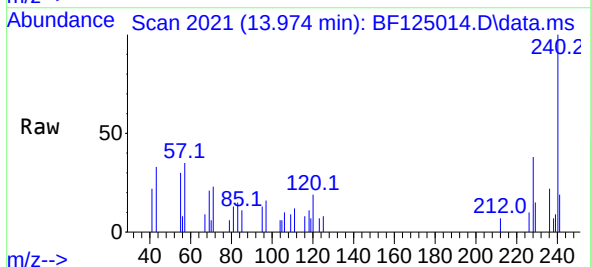
Tgt Ion:244 Resp: 43722  
Ion Ratio Lower Upper  
244 100  
212 6.6 5.9 8.9  
122 10.8 9.0 13.4

Manual Integrations  
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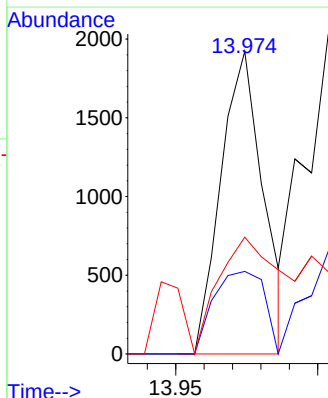
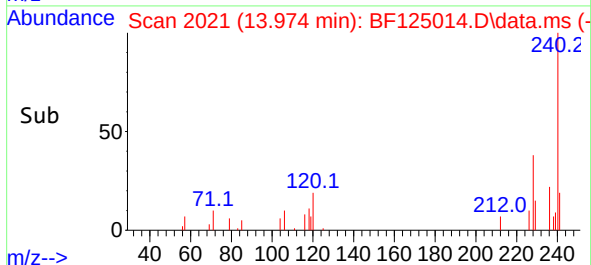
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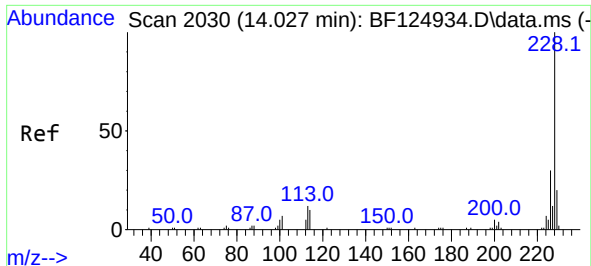


#81  
Benzo(a)anthracene  
Concen: 2.421 ng  
RT: 13.974 min Scan# 2021  
Delta R.T. 0.000 min  
Lab File: BF125014.D  
Acq: 9 Aug 2021 22:07



Tgt Ion:228 Resp: 2000  
Ion Ratio Lower Upper  
228 100  
226 27.3 21.6 32.4  
229 38.6 15.6 23.4#





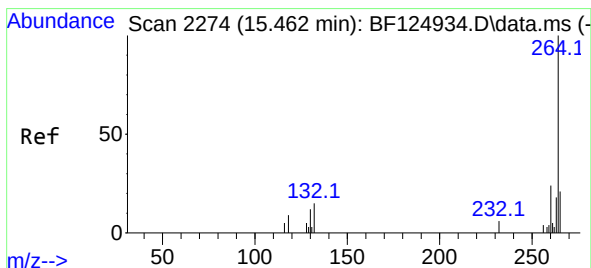
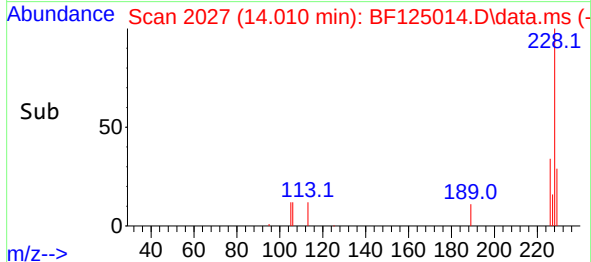
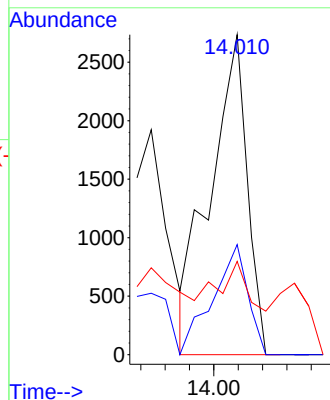
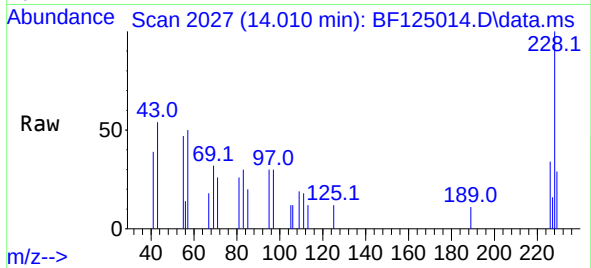
#83  
Chrysene  
Concen: 3.606 ng  
RT: 14.010 min Scan# 2027  
Delta R.T. 0.000 min  
Lab File: BF125014.D  
Acq: 9 Aug 2021 22:07

Instrument :  
BNA\_F  
ClientSampled :  
TWP03

Tgt Ion:228 Resp: 2880  
Ion Ratio Lower Upper  
228 100  
226 34.4 22.6 34.0#  
229 29.2 15.9 23.9#

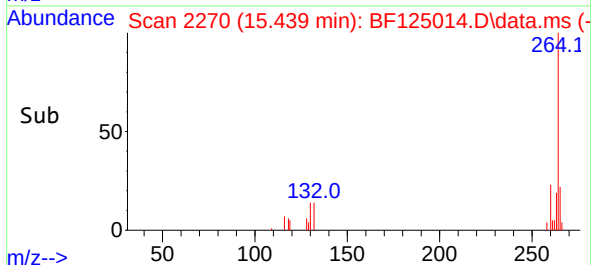
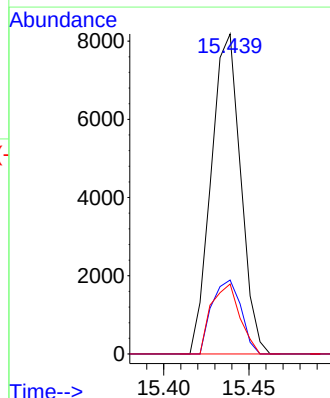
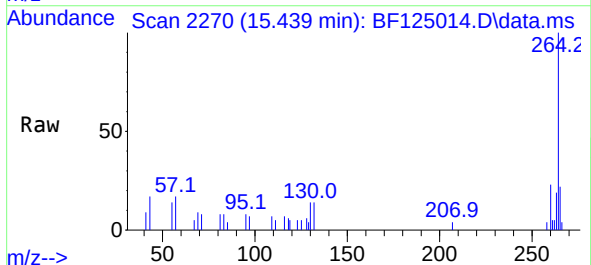
Manual Integrations  
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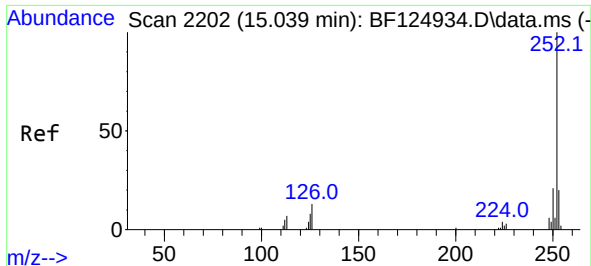
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#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.439 min Scan# 2270  
Delta R.T. 0.000 min  
Lab File: BF125014.D  
Acq: 9 Aug 2021 22:07

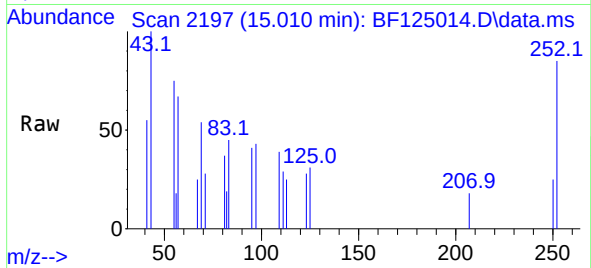
Tgt Ion:264 Resp: 9866  
Ion Ratio Lower Upper  
264 100  
260 23.1 19.6 29.4  
265 21.9 17.2 25.8





#88  
Benzo(b)fluoranthene  
Concen: 3.245 ng m  
RT: 15.010 min Scan# 2197  
Delta R.T. -0.006 min  
Lab File: BF125014.D  
Acq: 9 Aug 2021 22:07

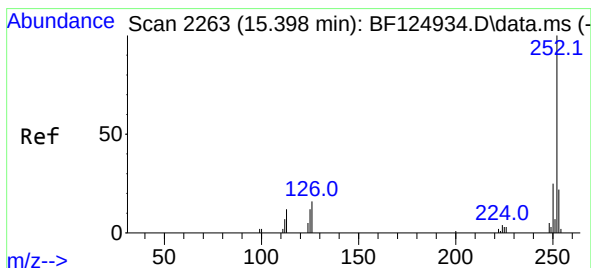
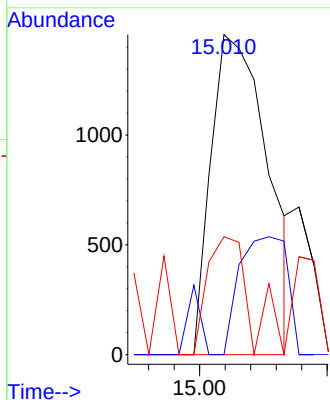
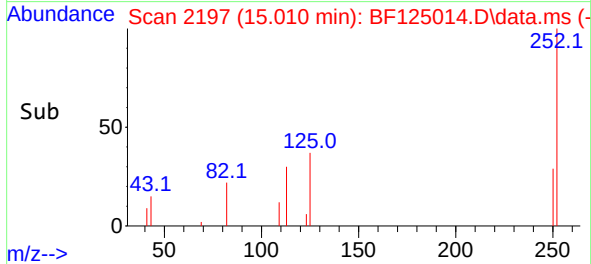
Instrument :  
BNA\_F  
ClientSampled :  
TWP03



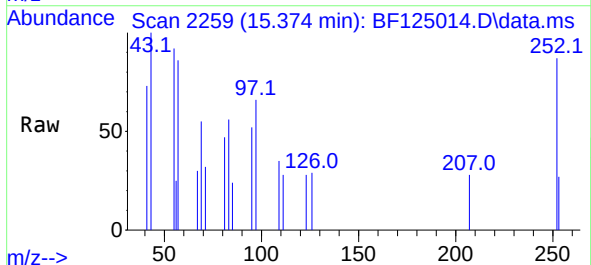
Tgt Ion:252 Resp: 2248  
Ion Ratio Lower Upper  
252 100  
253 0.0 16.8 25.2#  
125 36.9 9.8 14.8#

Manual Integrations  
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#90  
Benzo(a)pyrene  
Concen: 2.036 ng  
RT: 15.374 min Scan# 2259  
Delta R.T. 0.000 min  
Lab File: BF125014.D  
Acq: 9 Aug 2021 22:07



Tgt Ion:252 Resp: 1201  
Ion Ratio Lower Upper  
252 100  
253 31.3 18.4 27.6#  
125 0.0 9.9 14.9#

