

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF070221\  
 Data File : BF124526.D  
 Acq On : 2 Jul 2021 19:29  
 Operator : JU/CG  
 Sample : M2913-09  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 D-3700

Manual Integrations  
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mohammad  
 7/7/2021 11:35:16 AM

Quant Time: Jul 03 01:45:15 2021  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF062321.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jul 02 14:41:35 2021  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|--------|------|----------|-------|-------|----------|
| -----                       |        |      |          |       |       |          |
| Internal Standards          |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.669  | 152  | 33954    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 7.951  | 136  | 122494   | 20.00 | ng    | # 0.00   |
| 39) Acenaphthene-d10        | 9.704  | 164  | 69330    | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.192 | 188  | 103652   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12            | 13.845 | 240  | 84991    | 20.00 | ng    | 0.00     |
| 86) Perylene-d12            | 15.268 | 264  | 72274    | 20.00 | ng    | 0.00     |
|                             |        |      |          |       |       |          |
| System Monitoring Compounds |        |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.298  | 112  | 196016   | 90.79 | ng    | 0.00     |
| 7) Phenol-d6                | 6.328  | 99   | 235610   | 83.58 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.239  | 82   | 178574   | 60.44 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.498 | 330  | 60562    | 73.11 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.033  | 172  | 336601   | 59.47 | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.780 | 244  | 263751   | 46.48 | ng    | 0.00     |
|                             |        |      |          |       |       |          |
| Target Compounds            |        |      |          |       |       | Qvalue   |
| 31) Naphthalene             | 7.975  | 128  | 26198    | 3.64  | ng    | 98       |
| 37) 2-Methylnaphthalene     | 8.669  | 142  | 12588    | 2.47  | ng    | 100      |
| 38) 1-Methylnaphthalene     | 8.763  | 142  | 14179    | 2.99  | ng    | 97       |
| 49) Acenaphthylene          | 9.569  | 152  | 16567    | 2.38  | ng    | # 94     |
| 52) Acenaphthene            | 9.739  | 154  | 26382    | 5.96  | ng    | 91       |
| 55) Dibenzofuran            | 9.910  | 168  | 18461    | 2.62  | ng    | # 92     |
| 58) Fluorene                | 10.251 | 166  | 32460    | 5.99  | ng    | # 87     |
| 71) Phenanthrene            | 11.222 | 178  | 426110   | 65.21 | ng    | 97       |
| 72) Anthracene              | 11.269 | 178  | 78008    | 11.98 | ng    | 97       |
| 73) Carbazole               | 11.433 | 167  | 27016    | 4.76  | ng    | # 92     |
| 75) Fluoranthene            | 12.416 | 202  | 585599   | 89.06 | ng    | 96       |
| 78) Pyrene                  | 12.645 | 202  | 605870   | 78.10 | ng    | 100      |
| 81) Benzo(a)anthracene      | 13.833 | 228  | 291644   | 47.60 | ng    | 98       |
| 83) Chrysene                | 13.868 | 228  | 278046   | 45.79 | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene  | 16.662 | 276  | 80040    | 14.04 | ng    | 93       |
| 88) Benzo(b)fluoranthene    | 14.868 | 252  | 297978m  | 54.41 | ng    |          |
| 89) Benzo(k)fluoranthene    | 14.892 | 252  | 74786m   | 14.93 | ng    |          |
| 90) Benzo(a)pyrene          | 15.215 | 252  | 202635   | 41.64 | ng    | # 97     |
| 91) Dibenzo(a,h)anthracene  | 16.662 | 278  | 24541    | 5.00  | ng    | # 89     |
| 92) Benzo(g,h,i)perylene    | 17.086 | 276  | 78912    | 16.33 | ng    | 97       |
| -----                       |        |      |          |       |       |          |

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

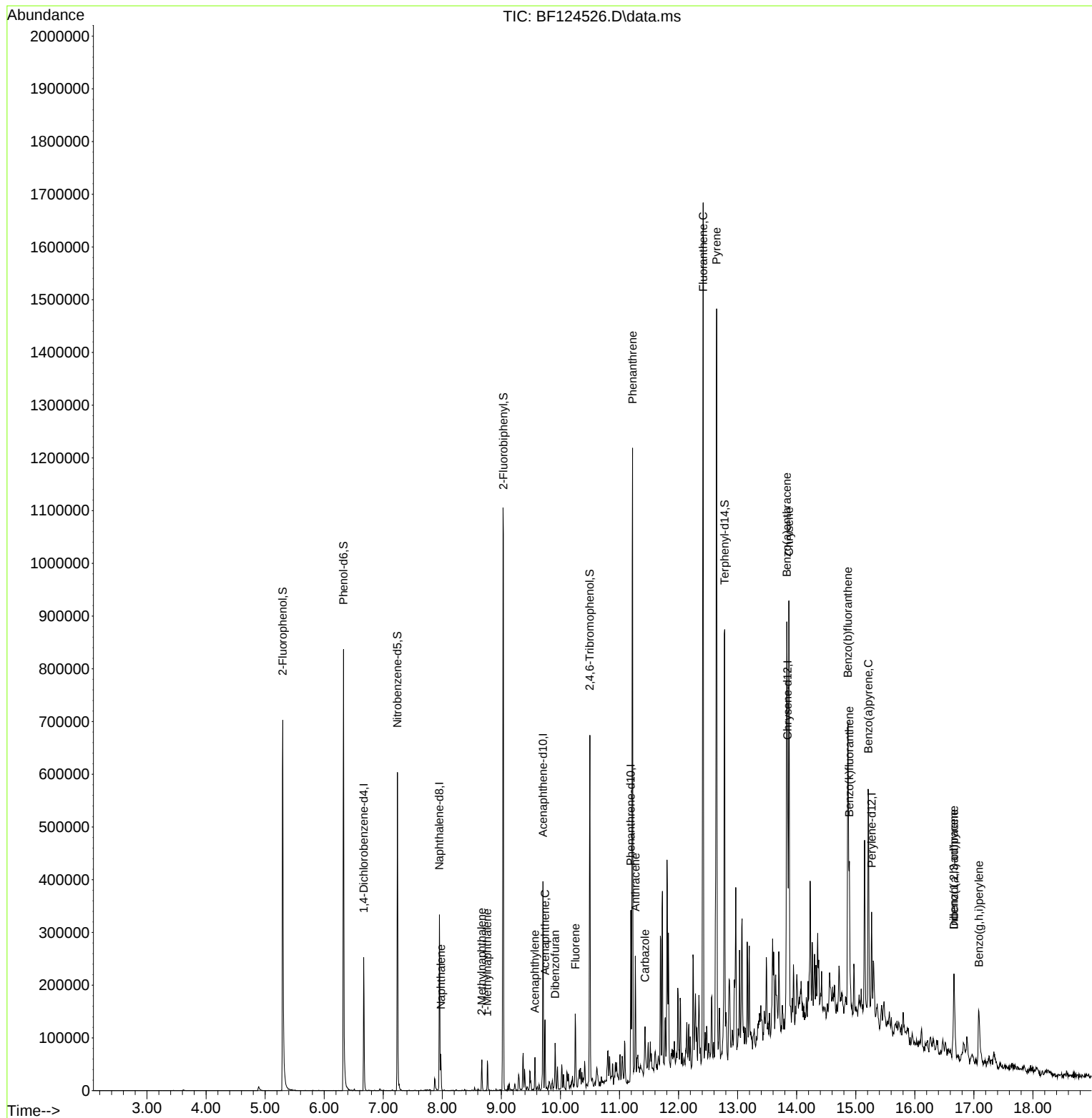
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF070221\  
Data File : BF124526.D  
Acq On : 2 Jul 2021 19:29  
Operator : JU/CG  
Sample : M2913-09  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

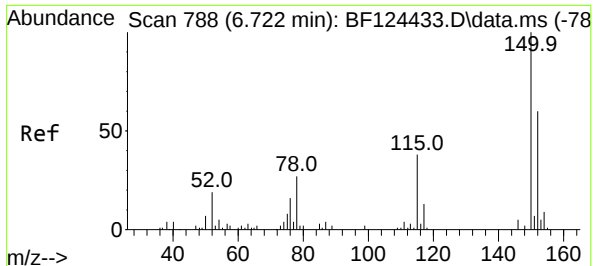
Instrument :  
BNA\_F  
ClientSampleId :  
D-3700

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Quant Time: Jul 03 01:45:15 2021  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF062321.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jul 02 14:41:35 2021  
Response via : Initial Calibration





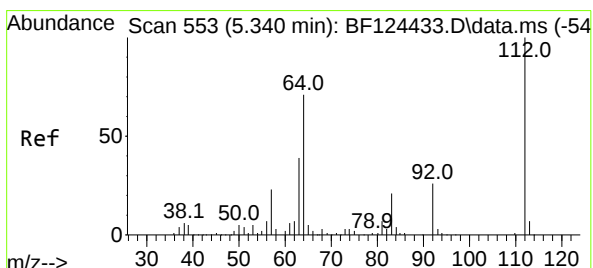
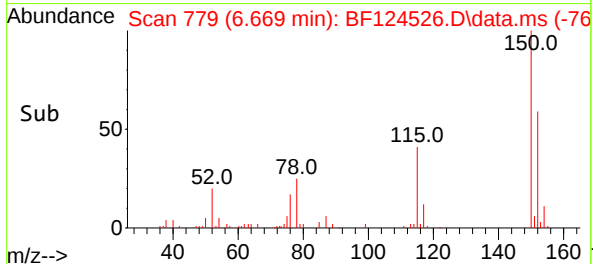
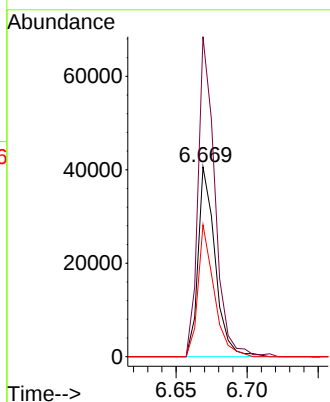
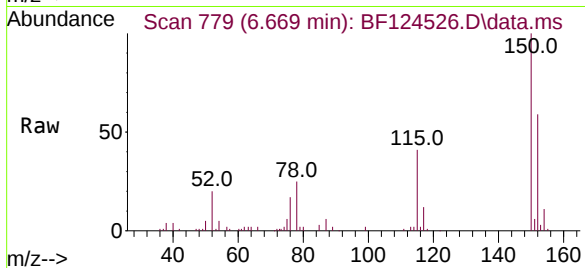
#1  
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.669 min Scan# 779  
Delta R.T. -0.006 min  
Lab File: BF124526.D  
Acq: 2 Jul 2021 19:29

Tgt Ion:152 Resp: 33954  
Ion Ratio Lower Upper  
152 100  
150 168.6 127.0 190.6  
115 69.5 54.3 81.5

Instrument :  
BNA\_F  
ClientSampled :  
D-3700

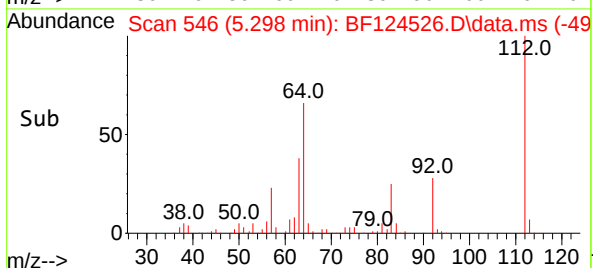
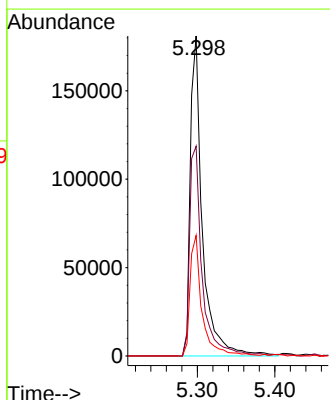
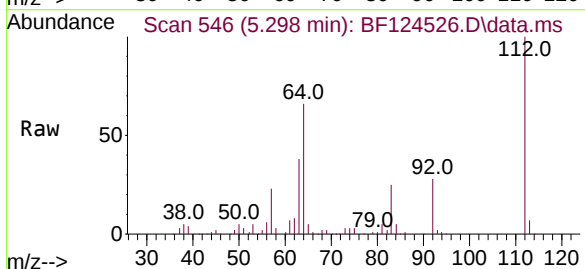
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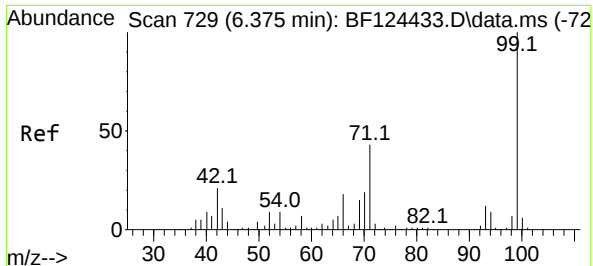
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#5  
2-Fluorophenol  
Concen: 90.79 ng  
RT: 5.298 min Scan# 546  
Delta R.T. 0.006 min  
Lab File: BF124526.D  
Acq: 2 Jul 2021 19:29

Tgt Ion:112 Resp: 196016  
Ion Ratio Lower Upper  
112 100  
64 65.5 61.4 92.0  
63 37.7 33.0 49.4





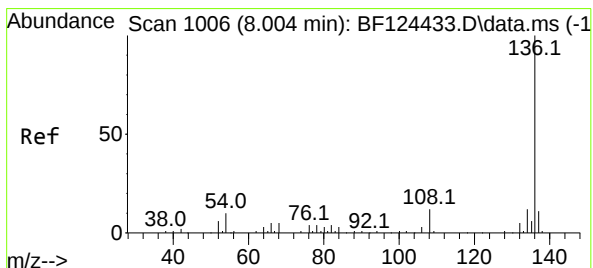
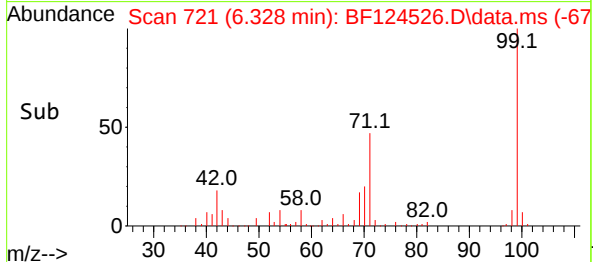
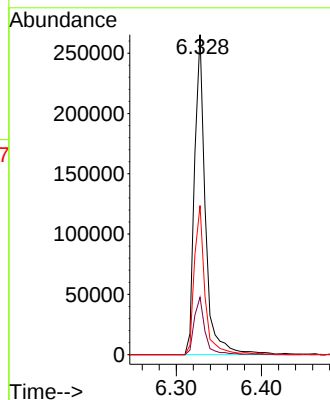
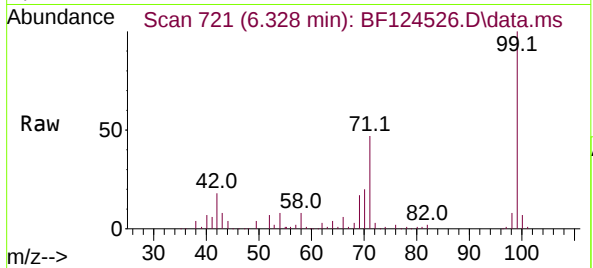
#7  
Phenol-d6  
Concen: 83.58 ng  
RT: 6.328 min Scan# 721  
Delta R.T. -0.006 min  
Lab File: BF124526.D  
Acq: 2 Jul 2021 19:29

Tgt Ion: 99 Resp: 235610  
Ion Ratio Lower Upper  
99 100  
42 18.0 19.8 29.8#  
71 46.6 31.1 46.7

Instrument :  
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ClientSampled :  
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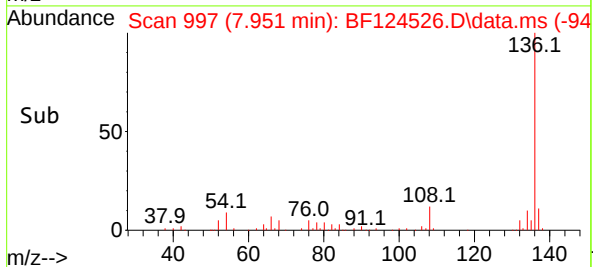
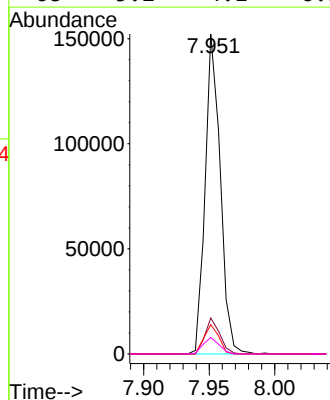
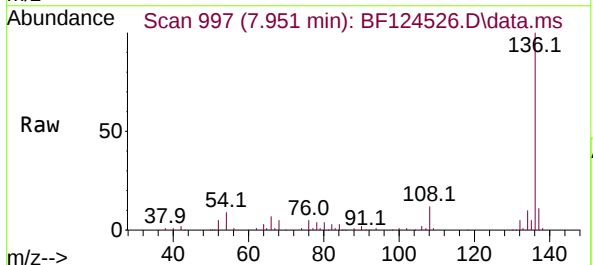
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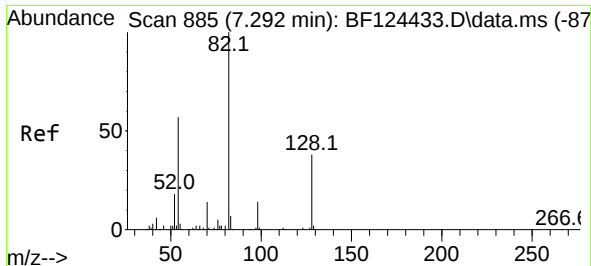
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#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.951 min Scan# 997  
Delta R.T. -0.006 min  
Lab File: BF124526.D  
Acq: 2 Jul 2021 19:29

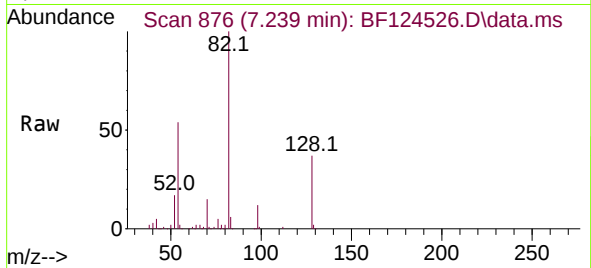
Tgt Ion: 136 Resp: 122494  
Ion Ratio Lower Upper  
136 100  
137 11.3 8.7 13.1  
54 9.1 9.8 14.6#  
68 5.2 4.1 6.1





#23  
Nitrobenzene-d5  
Concen: 60.44 ng  
RT: 7.239 min Scan# 876  
Delta R.T. -0.012 min  
Lab File: BF124526.D  
Acq: 2 Jul 2021 19:29

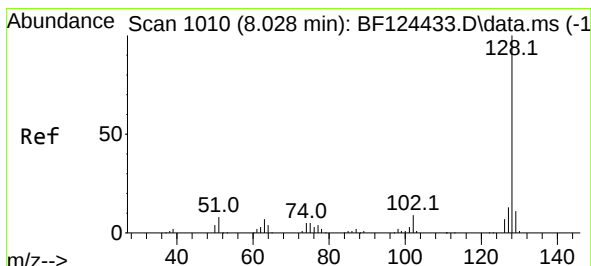
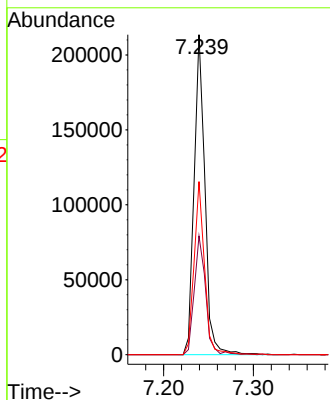
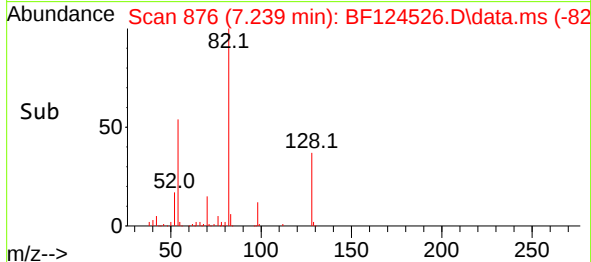
Instrument :  
BNA\_F  
ClientSampled :  
D-3700



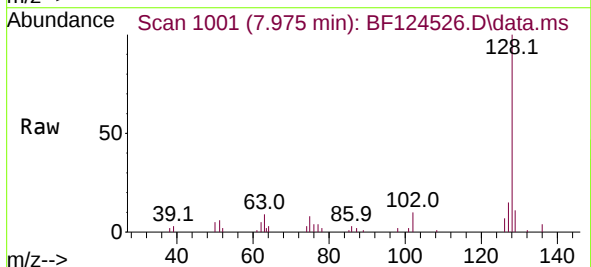
Tgt Ion: 82 Resp: 178574  
Ion Ratio Lower Upper  
82 100  
128 37.1 29.4 44.2  
54 54.1 54.1 81.1

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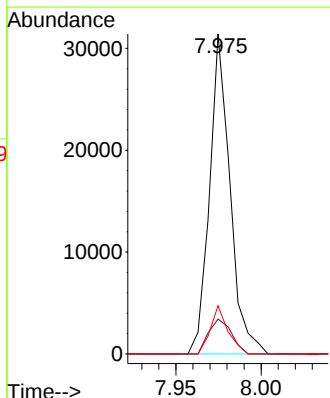
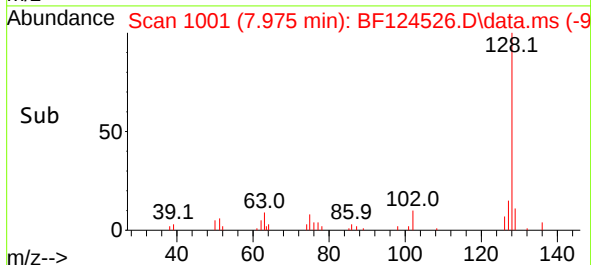
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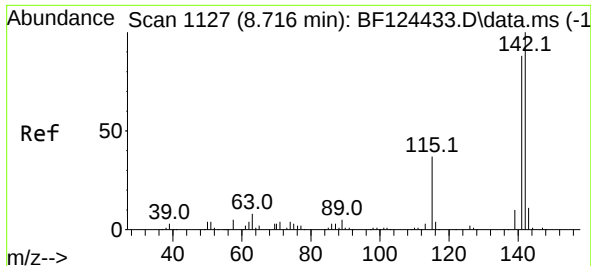


#31  
Naphthalene  
Concen: 3.64 ng  
RT: 7.975 min Scan# 1001  
Delta R.T. -0.006 min  
Lab File: BF124526.D  
Acq: 2 Jul 2021 19:29



Tgt Ion: 128 Resp: 26198  
Ion Ratio Lower Upper  
128 100  
129 10.9 8.9 13.3  
127 15.1 10.8 16.2





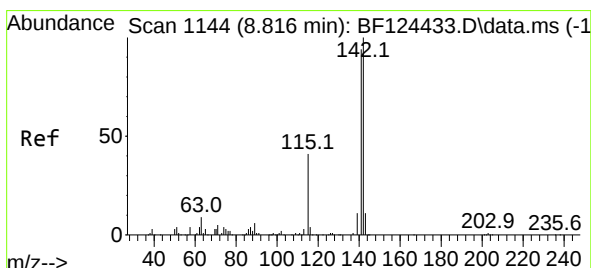
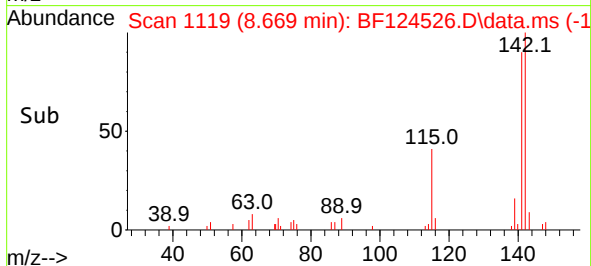
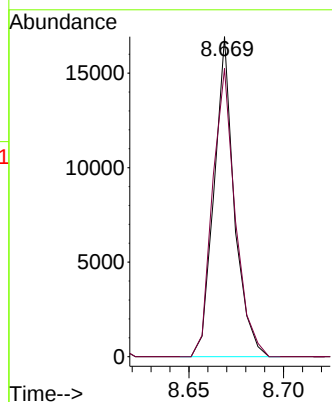
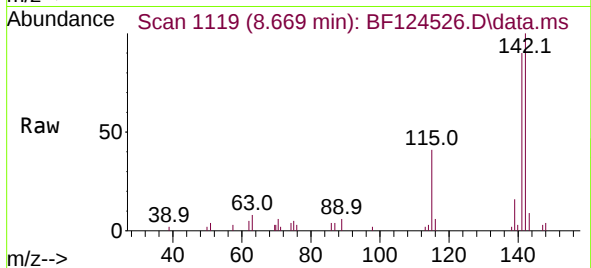
#37  
2-Methylnaphthalene  
Concen: 2.47 ng  
RT: 8.669 min Scan# 1119  
Delta R.T. -0.000 min  
Lab File: BF124526.D  
Acq: 2 Jul 2021 19:29

Instrument :  
BNA\_F  
ClientSampled :  
D-3700

Tgt Ion:142 Resp: 12588  
Ion Ratio Lower Upper  
142 100  
141 90.1 71.8 107.6

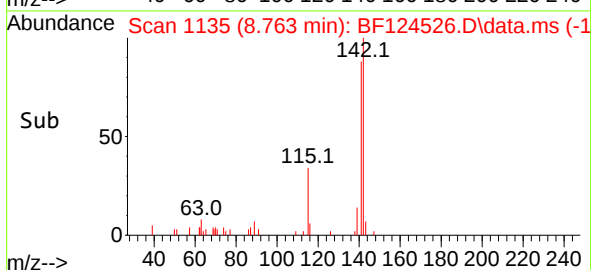
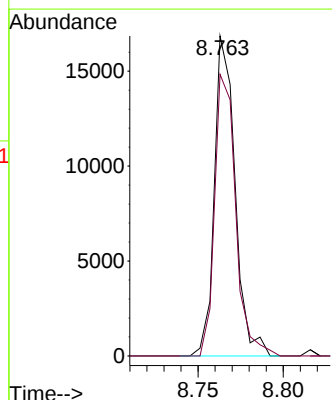
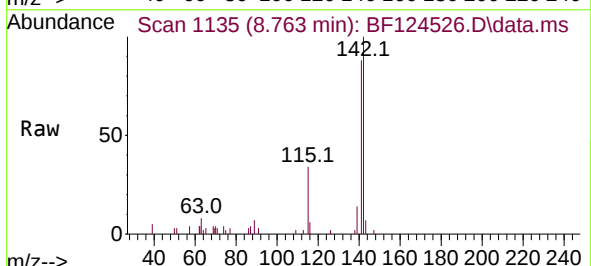
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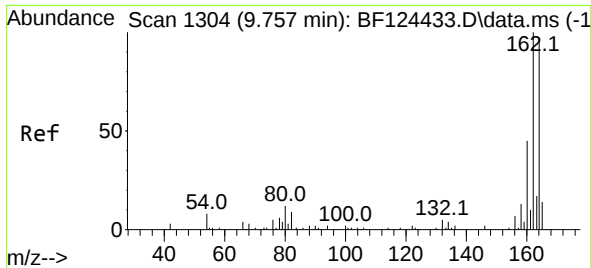
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#38  
1-Methylnaphthalene  
Concen: 2.99 ng  
RT: 8.763 min Scan# 1135  
Delta R.T. -0.006 min  
Lab File: BF124526.D  
Acq: 2 Jul 2021 19:29

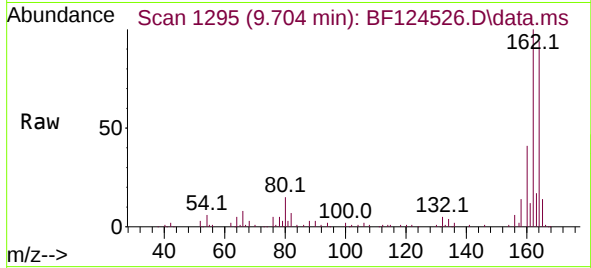
Tgt Ion:142 Resp: 14179  
Ion Ratio Lower Upper  
142 100  
141 88.0 72.8 109.2





#39  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.704 min Scan# 1295  
Delta R.T. -0.006 min  
Lab File: BF124526.D  
Acq: 2 Jul 2021 19:29

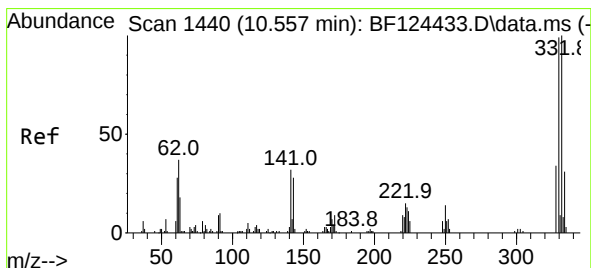
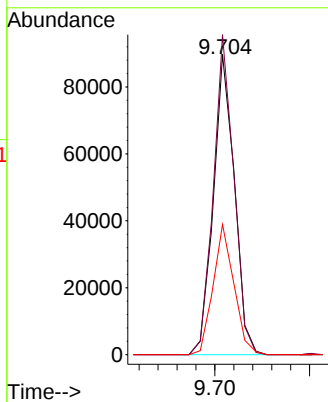
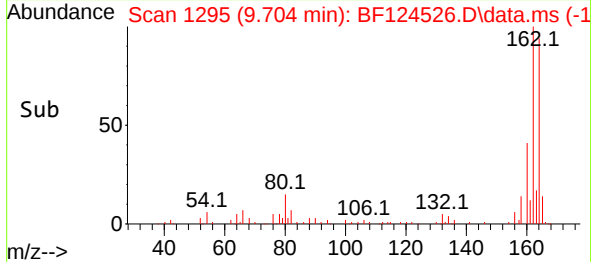
Instrument :  
BNA\_F  
ClientSampled :  
D-3700



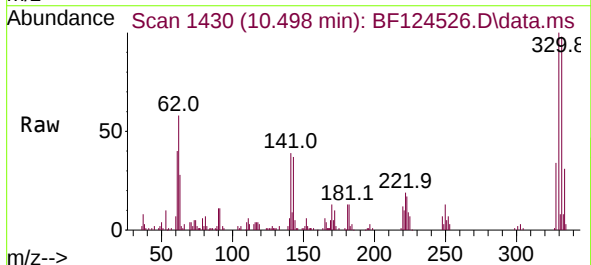
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Ion Ratio Lower Upper  
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162 106.6 80.7 121.1  
160 43.4 37.3 55.9

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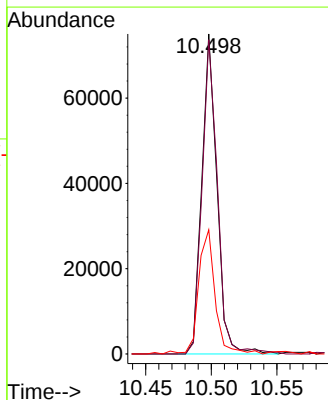
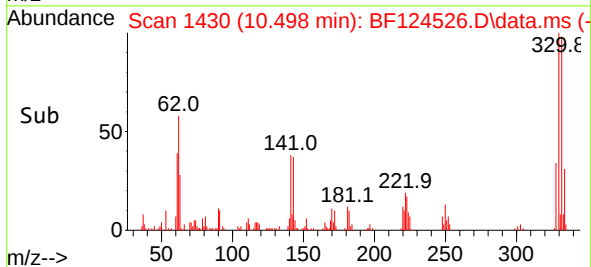
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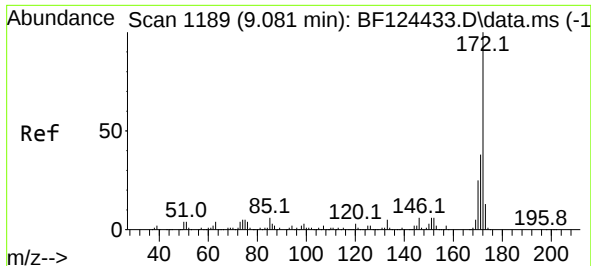


#42  
2,4,6-Tribromophenol  
Concen: 73.11 ng  
RT: 10.498 min Scan# 1430  
Delta R.T. -0.006 min  
Lab File: BF124526.D  
Acq: 2 Jul 2021 19:29



Tgt Ion:330 Resp: 60562  
Ion Ratio Lower Upper  
330 100  
332 99.5 77.1 115.7  
141 42.5 27.9 41.9#





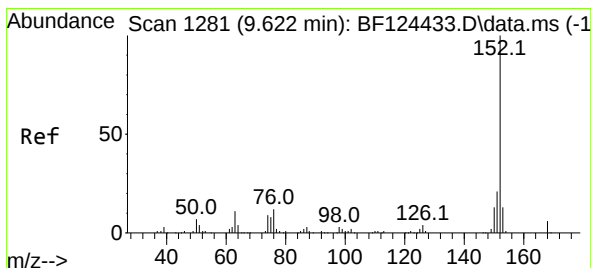
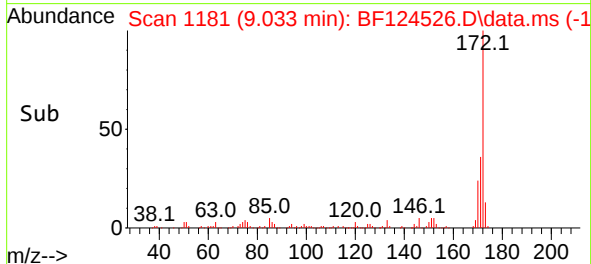
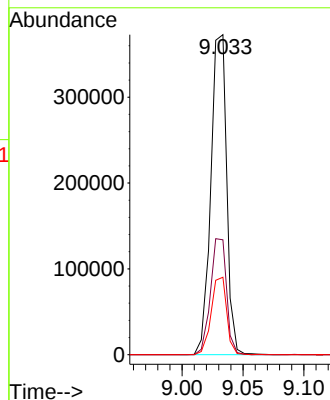
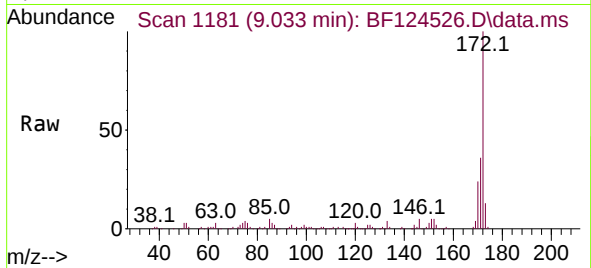
#45  
2-Fluorobiphenyl  
Concen: 59.47 ng  
RT: 9.033 min Scan# 1181  
Delta R.T. -0.000 min  
Lab File: BF124526.D  
Acq: 2 Jul 2021 19:29

Tgt Ion:172 Resp: 336601  
Ion Ratio Lower Upper  
172 100  
171 35.9 28.1 42.1  
170 24.2 19.2 28.8

Instrument :  
BNA\_F  
ClientSampleId :  
D-3700

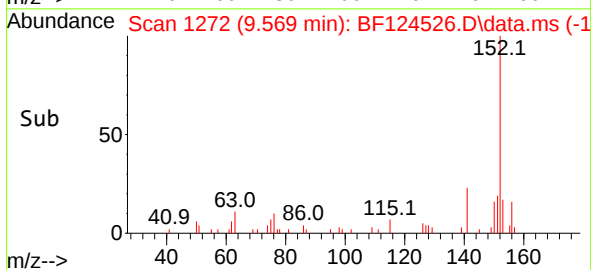
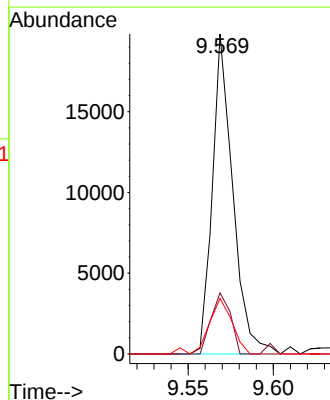
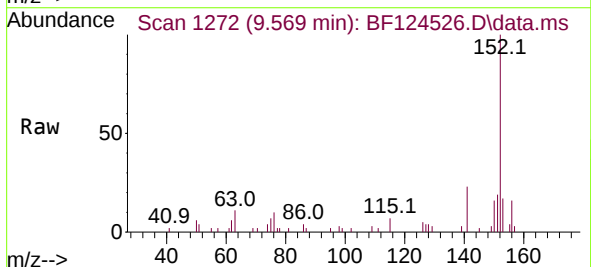
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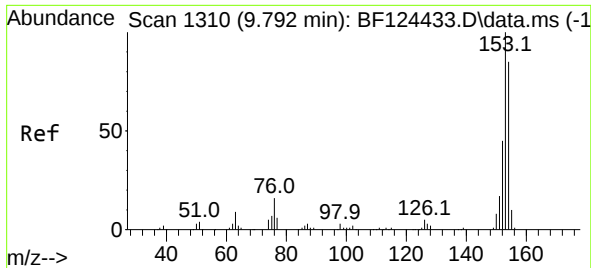
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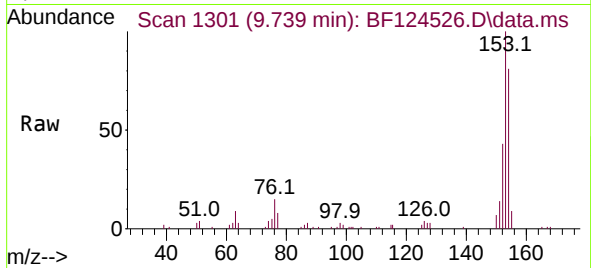
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Acenaphthylene  
Concen: 2.38 ng  
RT: 9.569 min Scan# 1272  
Delta R.T. -0.006 min  
Lab File: BF124526.D  
Acq: 2 Jul 2021 19:29

Tgt Ion:152 Resp: 16567  
Ion Ratio Lower Upper  
152 100  
151 19.1 16.0 24.0  
153 17.4 10.4 15.6#

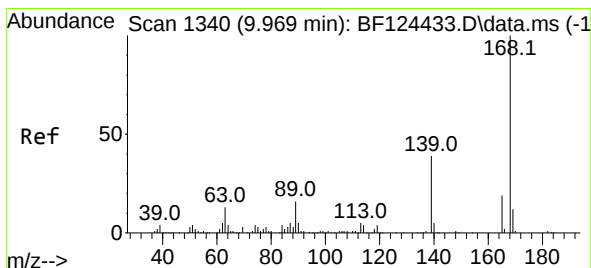
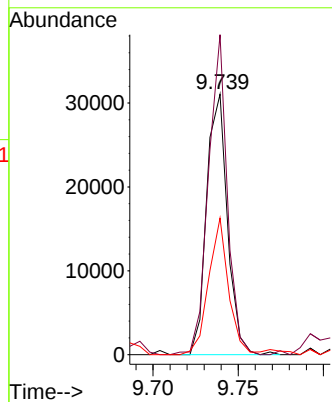
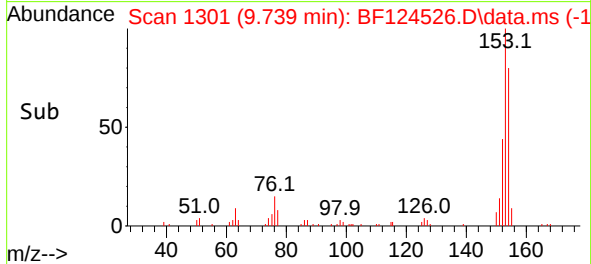




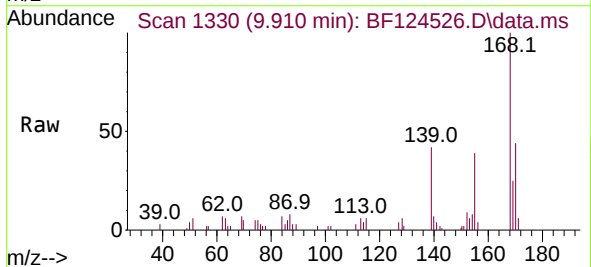
#52  
Acenaphthene  
Concen: 5.96 ng  
RT: 9.739 min Scan# 1301  
Delta R.T. -0.006 min  
Lab File: BF124526.D  
Acq: 2 Jul 2021 19:29



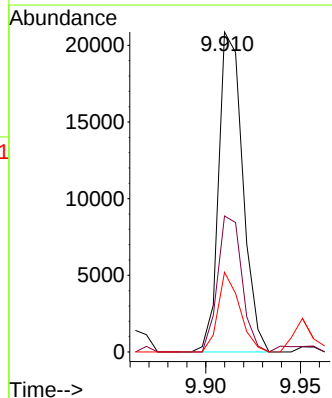
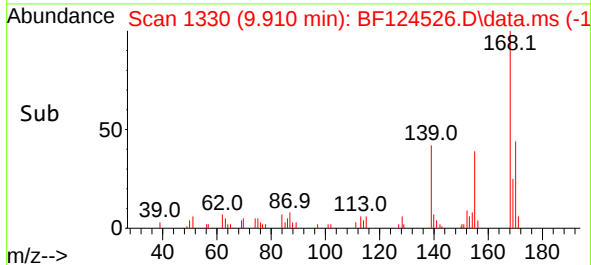
Tgt Ion:154 Resp: 26382  
Ion Ratio Lower Upper  
154 100  
153 122.9 88.1 132.1  
152 52.5 43.4 65.0



#55  
Dibenzofuran  
Concen: 2.62 ng  
RT: 9.910 min Scan# 1330  
Delta R.T. -0.006 min  
Lab File: BF124526.D  
Acq: 2 Jul 2021 19:29



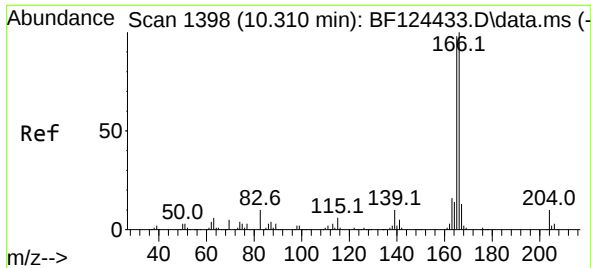
Tgt Ion:168 Resp: 18461  
Ion Ratio Lower Upper  
168 100  
139 42.5 33.2 49.8  
169 24.9 10.8 16.2#



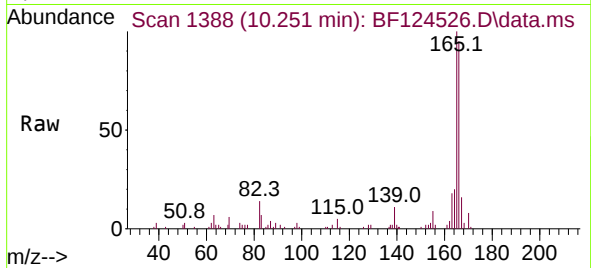
Instrument :  
BNA\_F  
ClientSampled :  
D-3700

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#58  
Fluorene  
Concen: 5.99 ng  
RT: 10.251 min Scan# 1388  
Delta R.T. -0.012 min  
Lab File: BF124526.D  
Acq: 2 Jul 2021 19:29

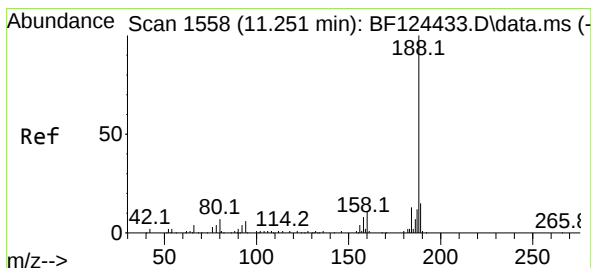
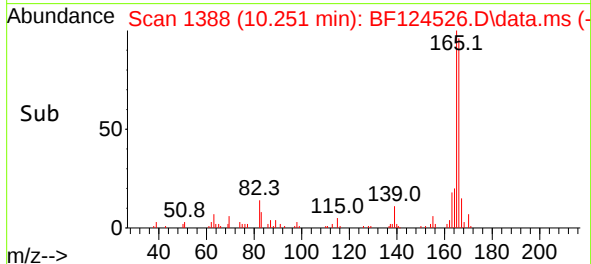
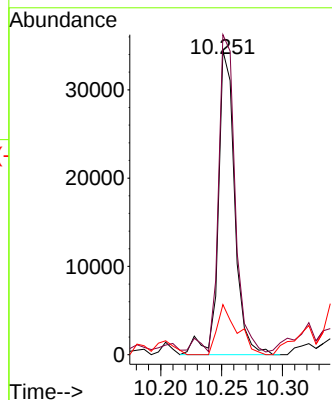


Tgt Ion:166 Resp: 32460  
Ion Ratio Lower Upper  
166 100  
165 105.3 73.5 110.3  
167 16.5 10.7 16.1#

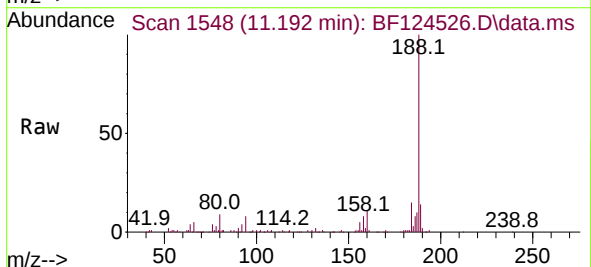
Instrument :  
BNA\_F  
ClientSampleId :  
D-3700

Manual Integrations  
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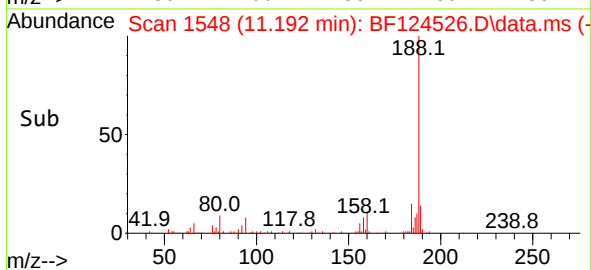
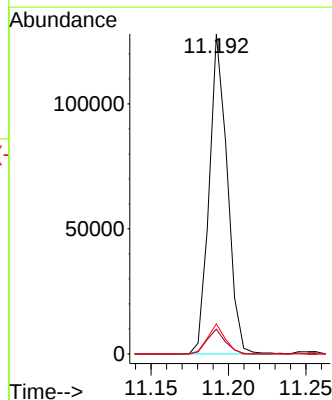
mohammad  
7/7/2021 11:35:16 AM

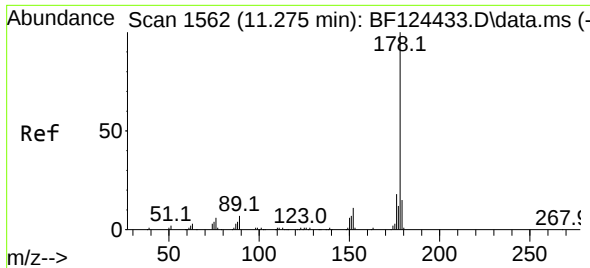


#64  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.192 min Scan# 1548  
Delta R.T. -0.006 min  
Lab File: BF124526.D  
Acq: 2 Jul 2021 19:29



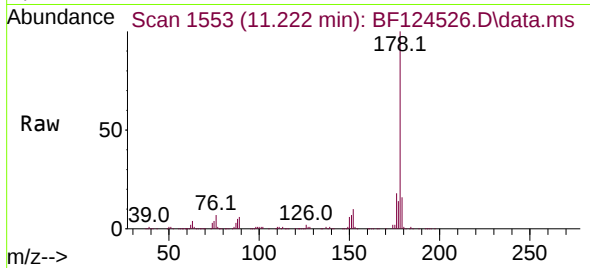
Tgt Ion:188 Resp: 103652  
Ion Ratio Lower Upper  
188 100  
94 7.8 6.9 10.3  
80 9.4 8.2 12.2





#71  
Phenanthrene  
Concen: 65.21 ng  
RT: 11.222 min Scan# 1553  
Delta R.T. -0.000 min  
Lab File: BF124526.D  
Acq: 2 Jul 2021 19:29

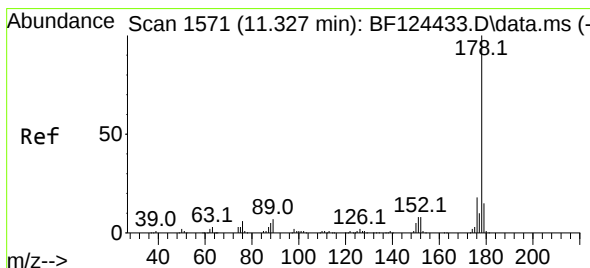
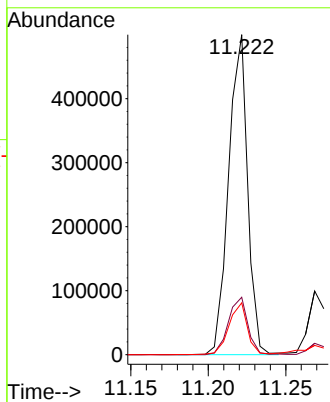
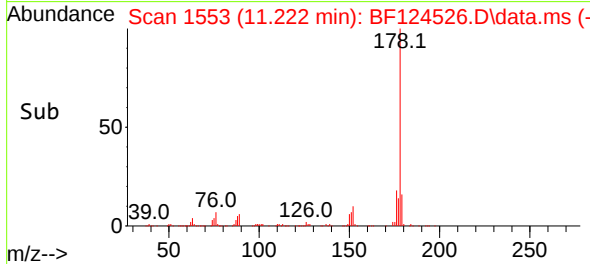
Instrument :  
BNA\_F  
ClientSampled :  
D-3700



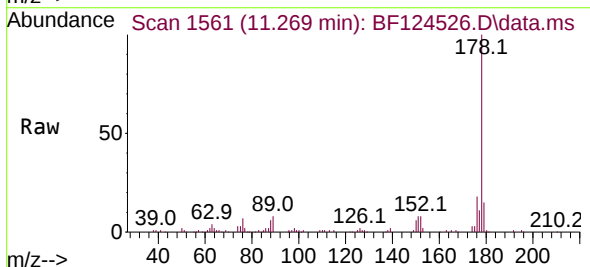
Tgt Ion:178 Resp: 426110  
Ion Ratio Lower Upper  
178 100  
176 17.9 15.6 23.4  
179 16.2 12.5 18.7

Manual Integrations  
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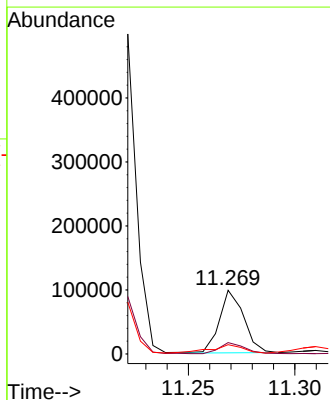
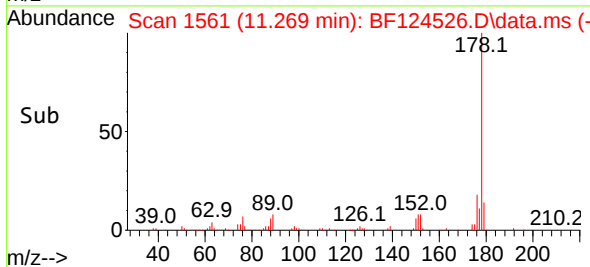
mohammad  
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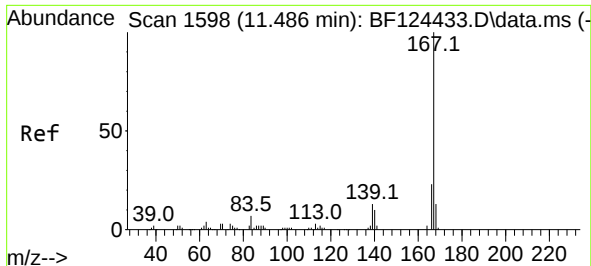


#72  
Anthracene  
Concen: 11.98 ng  
RT: 11.269 min Scan# 1561  
Delta R.T. -0.006 min  
Lab File: BF124526.D  
Acq: 2 Jul 2021 19:29



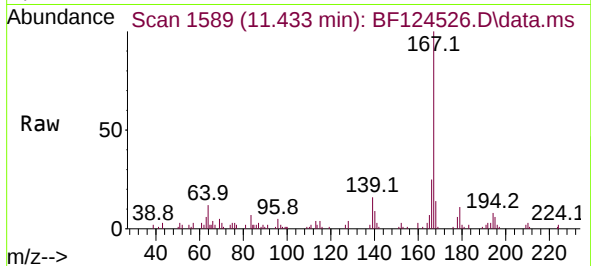
Tgt Ion:178 Resp: 78008  
Ion Ratio Lower Upper  
178 100  
176 17.8 15.4 23.0  
179 14.5 12.6 18.8





#73  
 Carbazole  
 Concen: 4.76 ng  
 RT: 11.433 min Scan# 1589  
 Delta R.T. -0.000 min  
 Lab File: BF124526.D  
 Acq: 2 Jul 2021 19:29

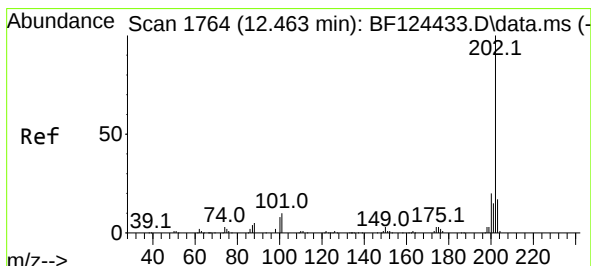
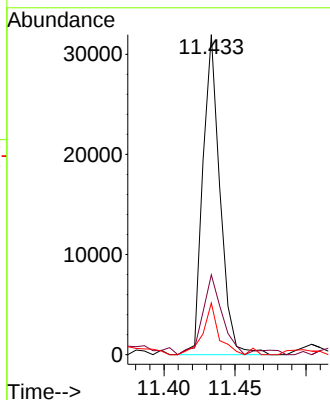
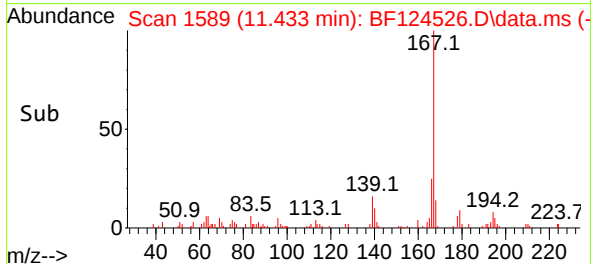
Instrument :  
 BNA\_F  
 ClientSampleId :  
 D-3700



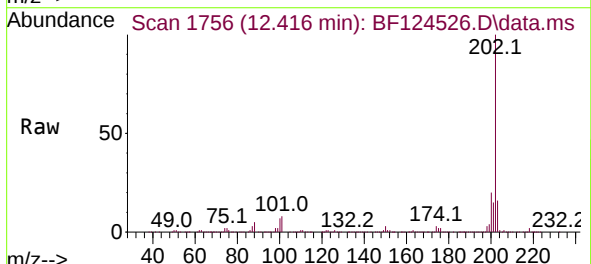
Tgt Ion:167 Resp: 27016  
 Ion Ratio Lower Upper  
 167 100  
 166 25.0 17.0 25.6  
 139 16.1 10.4 15.6#

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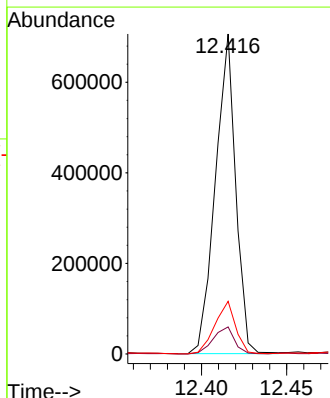
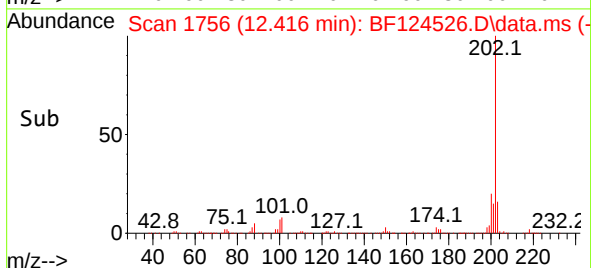
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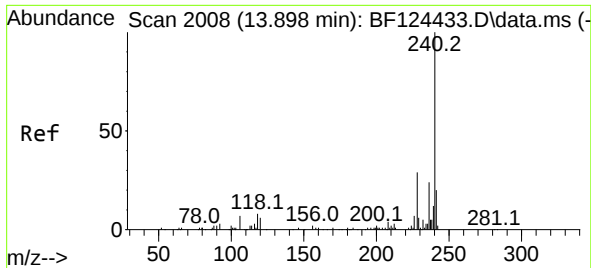


#75  
 Fluoranthene  
 Concen: 89.06 ng  
 RT: 12.416 min Scan# 1756  
 Delta R.T. 0.006 min  
 Lab File: BF124526.D  
 Acq: 2 Jul 2021 19:29



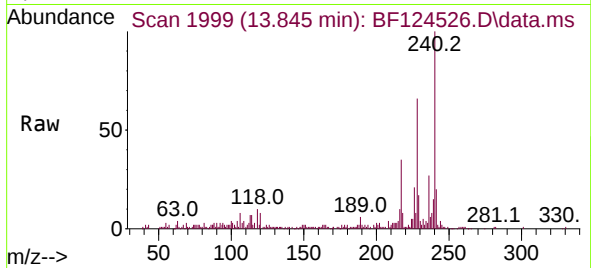
Tgt Ion:202 Resp: 585599  
 Ion Ratio Lower Upper  
 202 100  
 101 8.4 0.0 30.9  
 203 16.5 0.0 37.5





#76  
Chrysene-d12  
Concen: 20.00 ng  
RT: 13.845 min Scan# 1999  
Delta R.T. 0.006 min  
Lab File: BF124526.D  
Acq: 2 Jul 2021 19:29

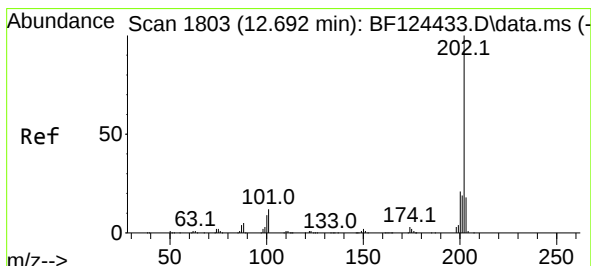
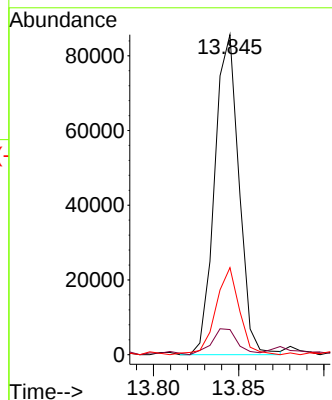
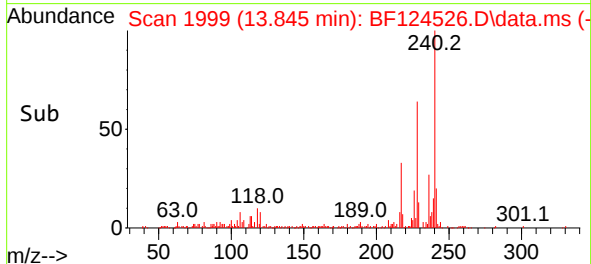
Instrument :  
BNA\_F  
ClientSampled :  
D-3700



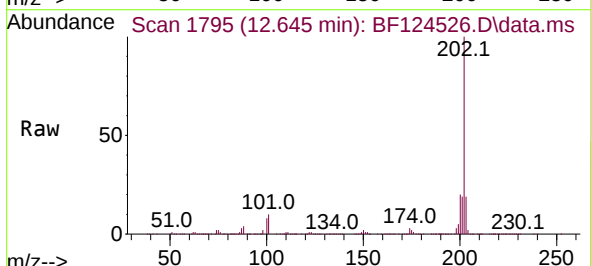
Tgt Ion:240 Resp: 84991  
Ion Ratio Lower Upper  
240 100  
120 7.9 7.2 10.8  
236 27.2 19.0 28.4

Manual Integrations  
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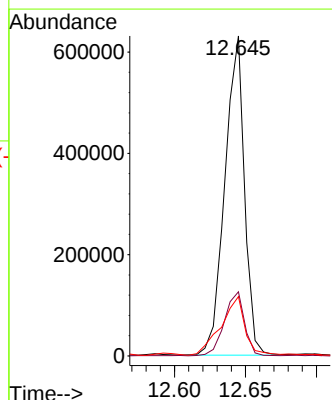
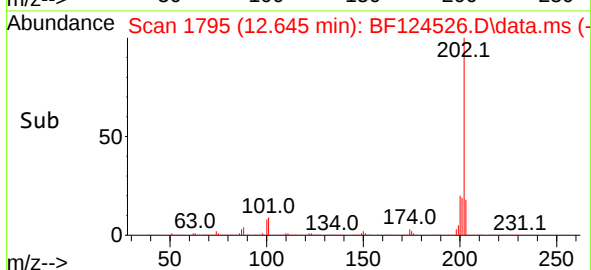
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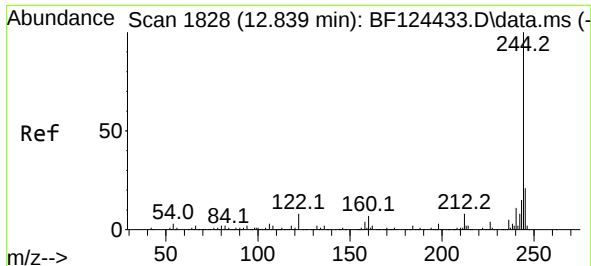


#78  
Pyrene  
Concen: 78.10 ng  
RT: 12.645 min Scan# 1795  
Delta R.T. 0.006 min  
Lab File: BF124526.D  
Acq: 2 Jul 2021 19:29



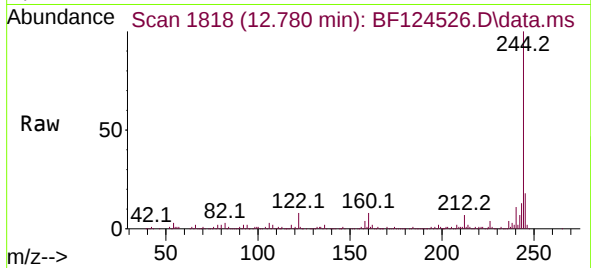
Tgt Ion:202 Resp: 605870  
Ion Ratio Lower Upper  
202 100  
200 20.1 16.1 24.1  
203 18.5 14.8 22.2





#79  
Terphenyl-d14  
Concen: 46.48 ng  
RT: 12.780 min Scan# 1818  
Delta R.T. -0.000 min  
Lab File: BF124526.D  
Acq: 2 Jul 2021 19:29

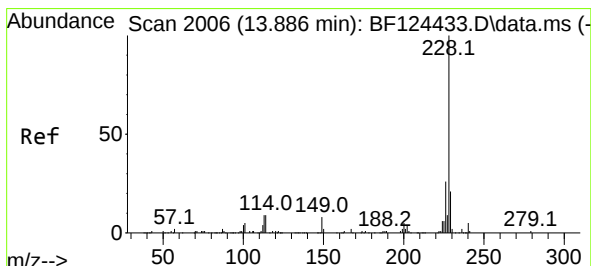
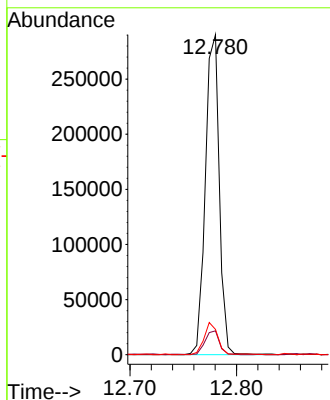
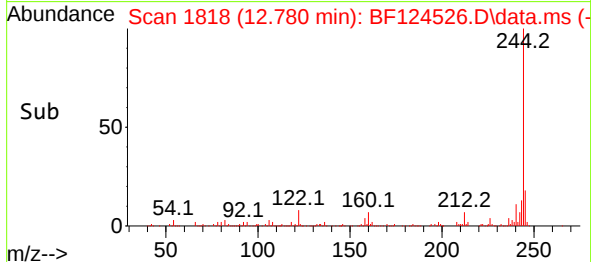
Instrument :  
BNA\_F  
ClientSampled :  
D-3700



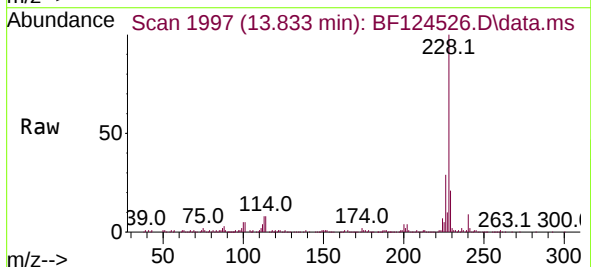
Tgt Ion:244 Resp: 263751  
Ion Ratio Lower Upper  
244 100  
212 7.5 5.7 8.5  
122 7.9 9.7 14.5#

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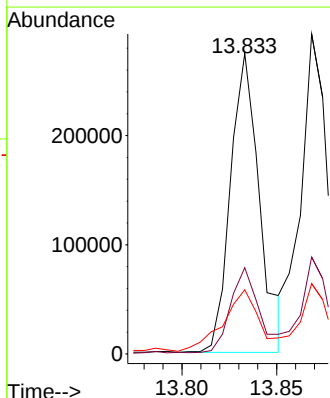
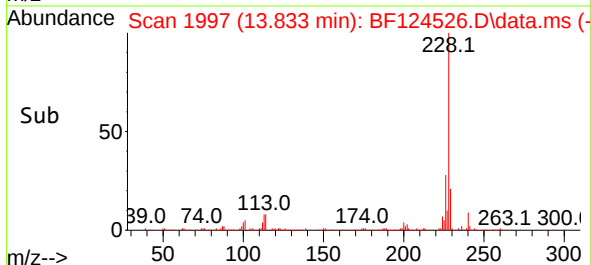
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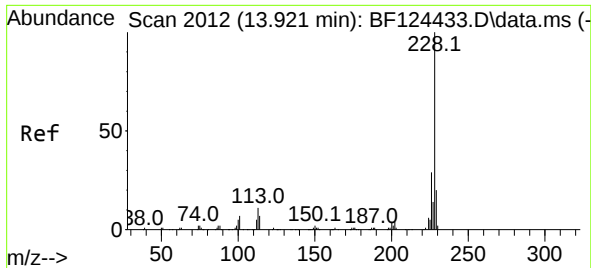


#81  
Benzo(a)anthracene  
Concen: 47.60 ng  
RT: 13.833 min Scan# 1997  
Delta R.T. 0.006 min  
Lab File: BF124526.D  
Acq: 2 Jul 2021 19:29



Tgt Ion:228 Resp: 291644  
Ion Ratio Lower Upper  
228 100  
226 28.7 22.4 33.6  
229 21.3 16.0 24.0





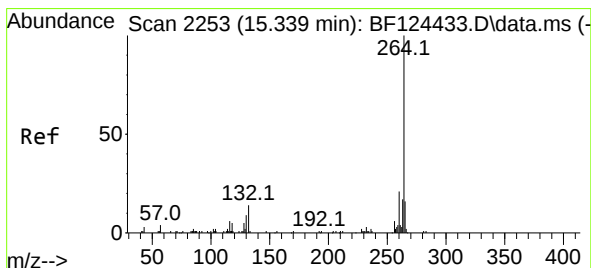
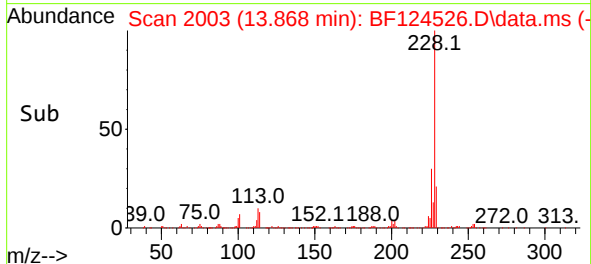
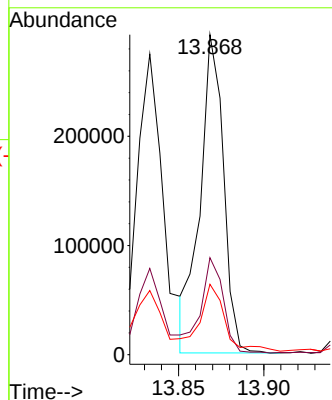
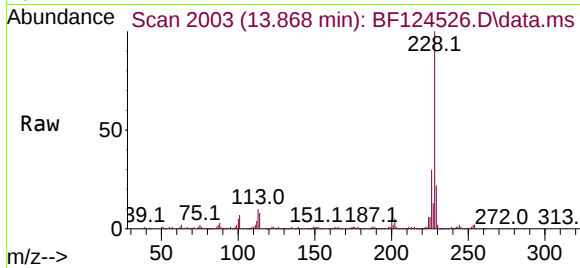
#83  
Chrysene  
Concen: 45.79 ng  
RT: 13.868 min Scan# 2003  
Delta R.T. -0.000 min  
Lab File: BF124526.D  
Acq: 2 Jul 2021 19:29

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 278046 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 30.3  | 24.3  | 36.5   |
| 229       | 22.0  | 16.2  | 24.2   |

Instrument :  
BNA\_F  
ClientSampled :  
D-3700

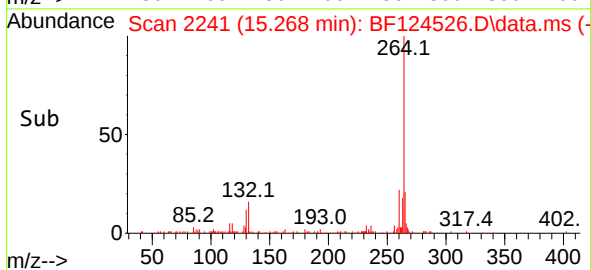
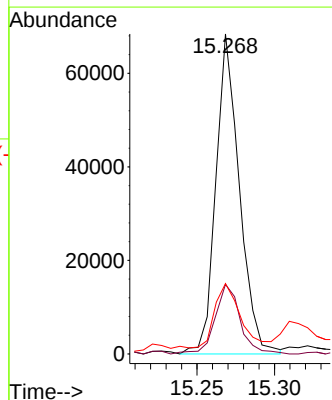
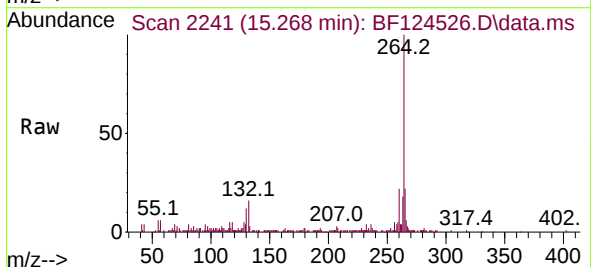
Manual Integrations  
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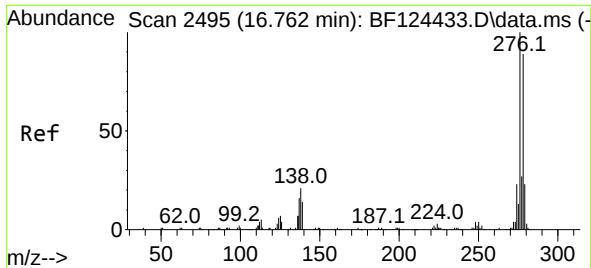
mohammad  
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#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.268 min Scan# 2241  
Delta R.T. 0.006 min  
Lab File: BF124526.D  
Acq: 2 Jul 2021 19:29

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 264   | Resp: | 72274 |
| Ion Ratio | Lower | Upper |       |
| 264       | 100   |       |       |
| 260       | 21.7  | 18.7  | 28.1  |
| 265       | 22.0  | 17.8  | 26.8  |





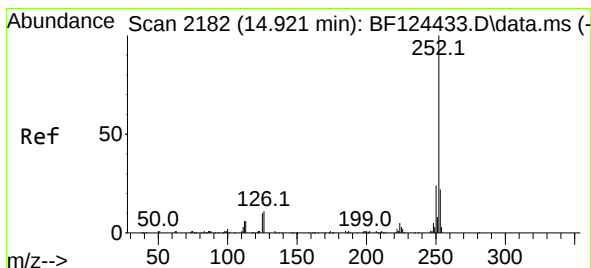
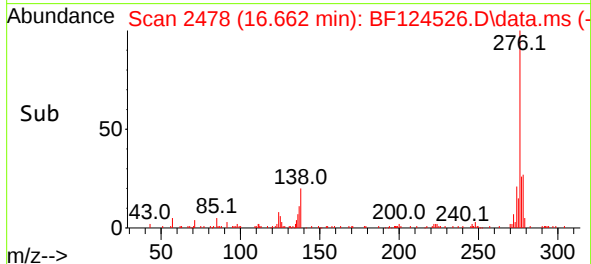
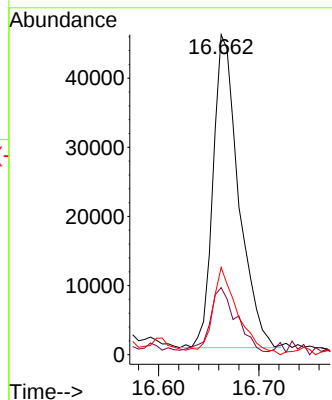
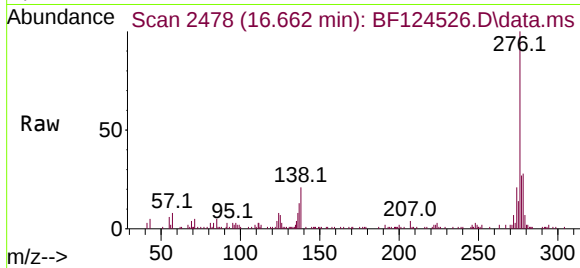
#87  
Indeno(1,2,3-cd)pyrene  
Concen: 14.04 ng  
RT: 16.662 min Scan# 2478  
Delta R.T. 0.012 min  
Lab File: BF124526.D  
Acq: 2 Jul 2021 19:29

Tgt Ion:276 Resp: 80040  
Ion Ratio Lower Upper  
276 100  
138 23.9 16.2 24.2  
277 27.8 20.1 30.1

Instrument :  
BNA\_F  
ClientSampled :  
D-3700

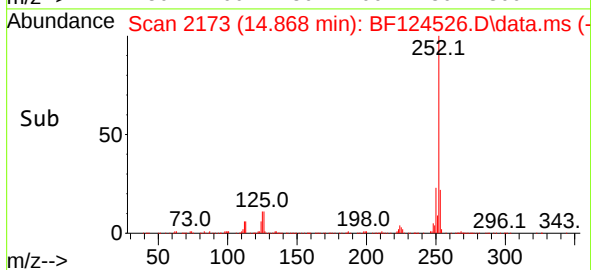
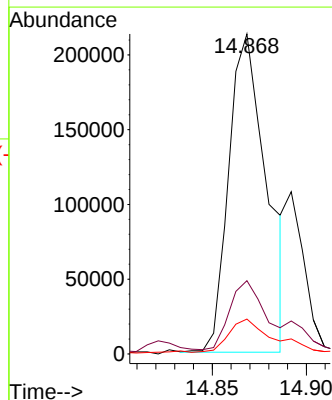
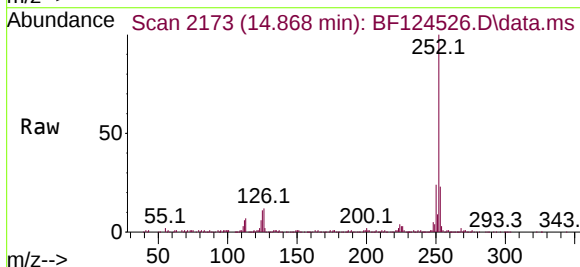
Manual Integrations  
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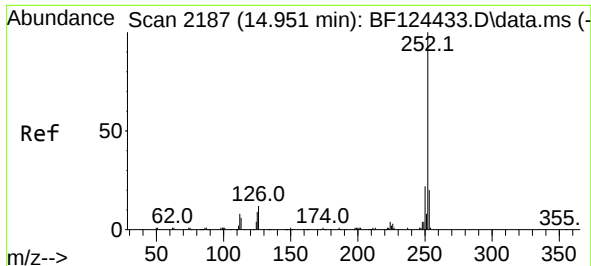
mohammad  
7/7/2021 11:35:16 AM



#88  
Benzo(b)fluoranthene  
Concen: 54.41 ng m  
RT: 14.868 min Scan# 2173  
Delta R.T. 0.012 min  
Lab File: BF124526.D  
Acq: 2 Jul 2021 19:29

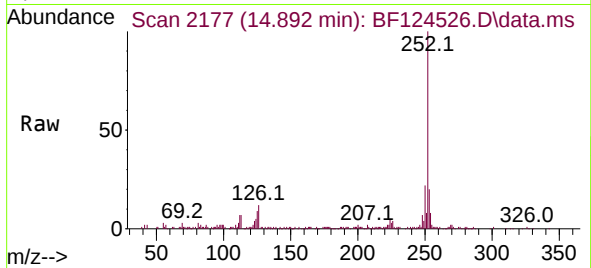
Tgt Ion:252 Resp: 297978  
Ion Ratio Lower Upper  
252 100  
253 22.9 18.1 27.1  
125 10.9 6.2 9.4#





#89  
Benzo(k)fluoranthene  
Concen: 14.93 ng m  
RT: 14.892 min Scan# 2177  
Delta R.T. 0.006 min  
Lab File: BF124526.D  
Acq: 2 Jul 2021 19:29

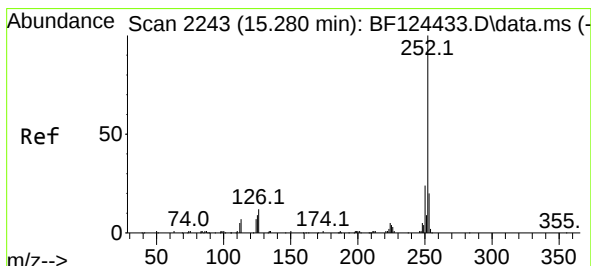
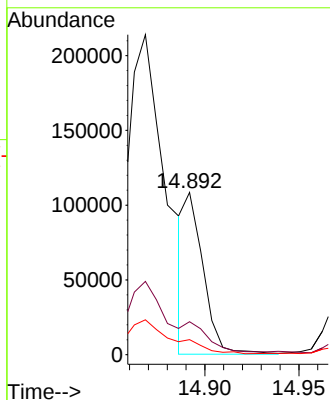
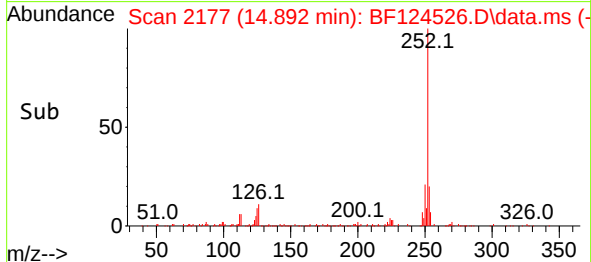
Instrument :  
BNA\_F  
ClientSampled :  
D-3700



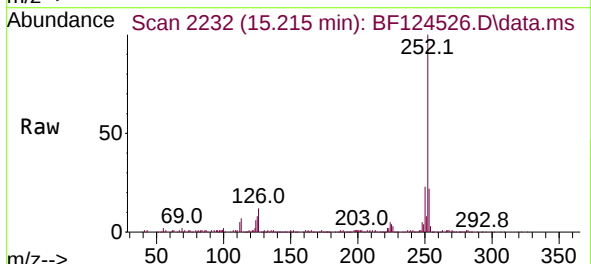
Tgt Ion:252 Resp: 74786  
Ion Ratio Lower Upper  
252 100  
253 20.3 17.9 26.9  
125 9.2 7.0 10.6

Manual Integrations  
APPROVED

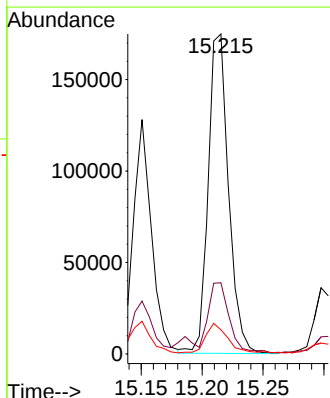
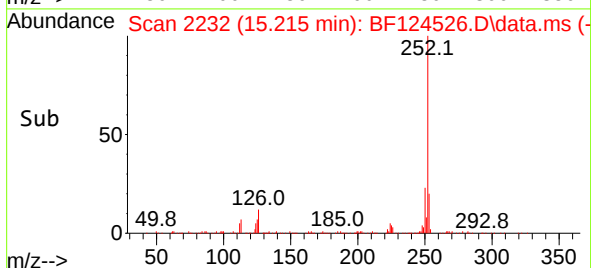
mohammad  
7/7/2021 11:35:16 AM

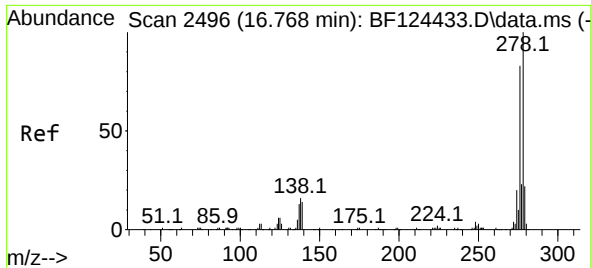


#90  
Benzo(a)pyrene  
Concen: 41.64 ng  
RT: 15.215 min Scan# 2232  
Delta R.T. 0.012 min  
Lab File: BF124526.D  
Acq: 2 Jul 2021 19:29



Tgt Ion:252 Resp: 202635  
Ion Ratio Lower Upper  
252 100  
253 22.3 18.4 27.6  
125 7.6 8.0 12.0#





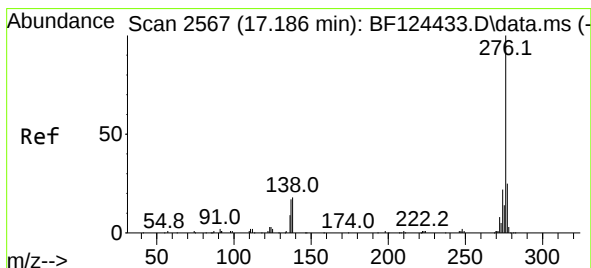
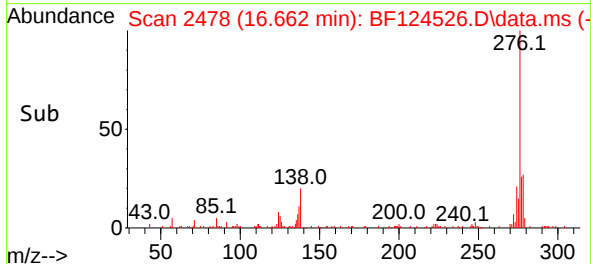
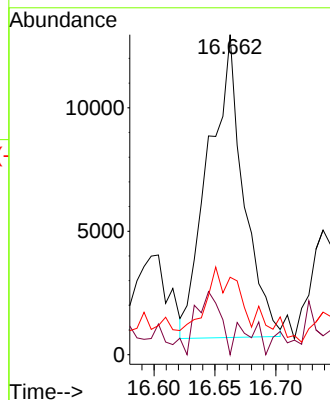
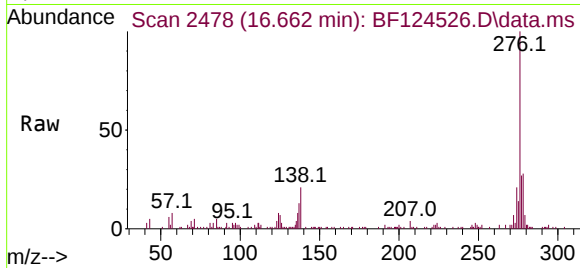
#91  
Dibenzo(a,h)anthracene  
Concen: 5.00 ng  
RT: 16.662 min Scan# 2478  
Delta R.T. 0.012 min  
Lab File: BF124526.D  
Acq: 2 Jul 2021 19:29

Tgt Ion: 278 Resp: 24541  
Ion Ratio Lower Upper  
278 100  
139 0.0 10.2 15.2#  
279 24.2 19.4 29.0

Instrument :  
BNA\_F  
ClientSampled :  
D-3700

Manual Integrations  
APPROVED

mohammad  
7/7/2021 11:35:16 AM



#92  
Benzo(g,h,i)perylene  
Concen: 16.33 ng  
RT: 17.086 min Scan# 2550  
Delta R.T. 0.018 min  
Lab File: BF124526.D  
Acq: 2 Jul 2021 19:29

Tgt Ion: 276 Resp: 78912  
Ion Ratio Lower Upper  
276 100  
277 25.5 18.2 27.2  
138 17.4 13.8 20.6

