

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF090921\  
 Data File : BF125416.D  
 Acq On : 9 Sep 2021 18:05  
 Operator : JU/CG  
 Sample : M3669-01DL 10X  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 UTILITY-POLES-BRIGE-PIERS-DEC

Quant Time: Sep 10 04:31:12 2021  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF081821.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Sep 08 14:14:01 2021  
 Response via : Initial Calibration

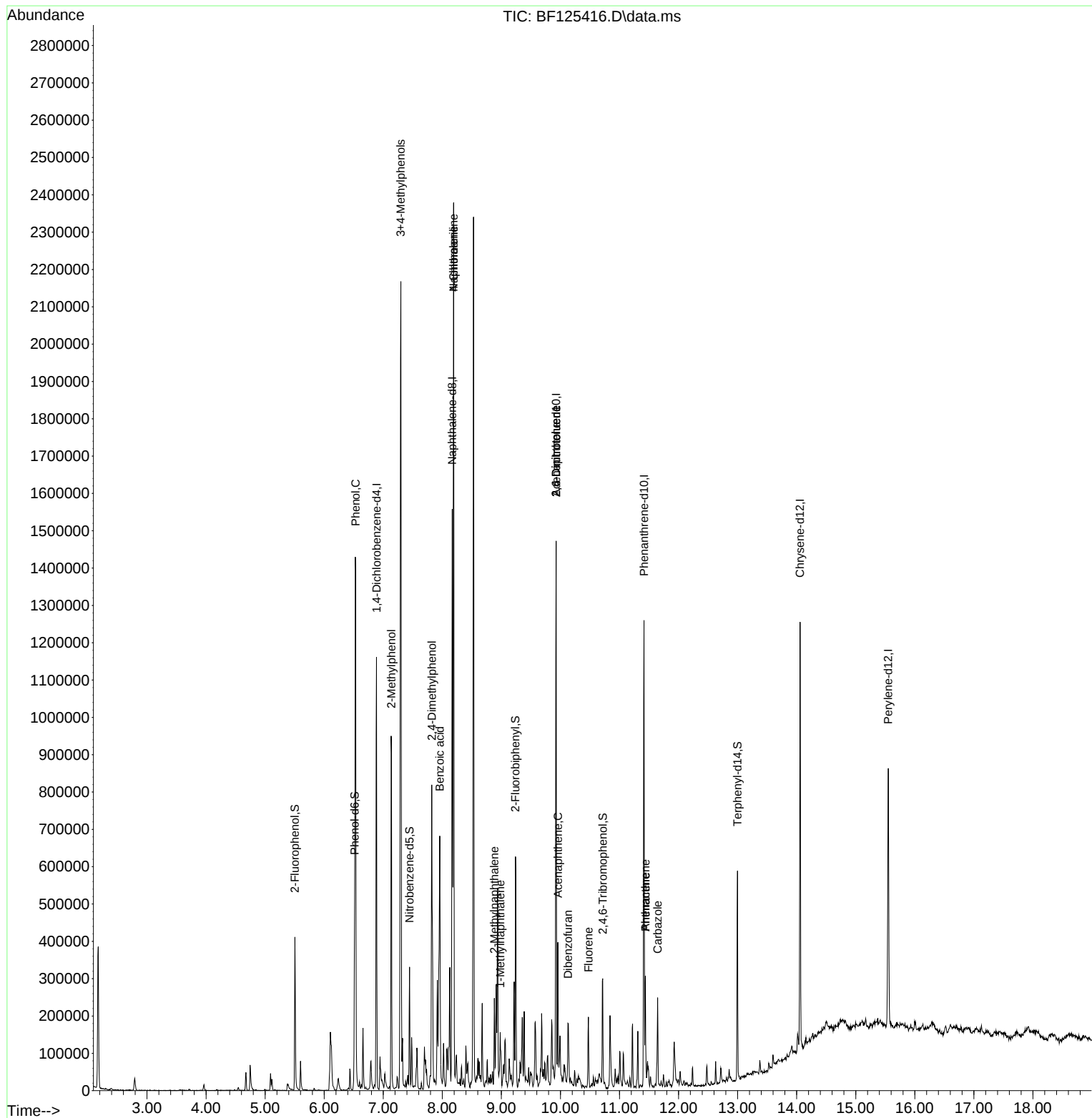
| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.887  | 152  | 162414   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.169  | 136  | 623753   | 20.000 | ng    | # 0.00   |
| 39) Acenaphthene-d10        | 9.928  | 164  | 284062   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.416 | 188  | 448718   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12            | 14.057 | 240  | 377670   | 20.000 | ng    | # 0.00   |
| 86) Perylene-d12            | 15.551 | 264  | 311578   | 20.000 | ng    | 0.00     |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.504  | 112  | 107745   | 10.041 | ng    | 0.00     |
| 7) Phenol-d6                | 6.516  | 99   | 121642   | 8.765  | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.445  | 82   | 88711    | 7.160  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.716 | 330  | 33517    | 11.820 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.239  | 172  | 177041   | 8.686  | ng    | -0.01    |
| 79) Terphenyl-d14           | 12.998 | 244  | 178854   | 7.544  | ng    | 0.00     |
| Target Compounds            |        |      |          |        |       |          |
|                             |        |      |          |        |       | Qvalue   |
| 10) Phenol                  | 6.534  | 94   | 487263   | 33.528 | ng    | 97       |
| 17) 2-Methylphenol          | 7.140  | 107  | 159475   | 17.343 | ng    | 97       |
| 20) 3+4-Methylphenols       | 7.298  | 107  | 594694   | 51.521 | ng    | # 81     |
| 27) 2,4-Dimethylphenol      | 7.822  | 122  | 178876   | 18.954 | ng    | 90       |
| 31) Naphthalene             | 8.192  | 128  | 263243   | 8.241  | ng    | 98       |
| 32) Benzoic acid            | 7.957  | 122  | 177954   | 27.782 | ng    | # 18     |
| 33) 4-Chloroaniline         | 8.192  | 127  | 33944    | 2.695  | ng    | # 1      |
| 37) 2-Methylnaphthalene     | 8.881  | 142  | 47807    | 2.265  | ng    | 98       |
| 38) 1-Methylnaphthalene     | 8.981  | 142  | 42110    | 2.136  | ng    | 94       |
| 51) 2,6-Dinitrotoluene      | 9.928  | 165  | 36901    | 8.645  | ng    | # 29     |
| 52) Acenaphthene            | 9.957  | 154  | 59477    | 3.538  | ng    | 96       |
| 55) Dibenzofuran            | 10.128 | 168  | 56454    | 2.333  | ng    | 95       |
| 57) 2,4-Dinitrotoluene      | 9.928  | 165  | 36901    | 7.143  | ng    | # 20     |
| 58) Fluorene                | 10.475 | 166  | 40949    | 2.289  | ng    | 99       |
| 71) Phenanthrene            | 11.439 | 178  | 96412    | 3.899  | ng    | 98       |
| 72) Anthracene              | 11.439 | 178  | 96412    | 3.956  | ng    | 98       |
| 73) Carbazole               | 11.645 | 167  | 84728    | 3.805  | ng    | 99       |
| -----                       |        |      |          |        |       |          |

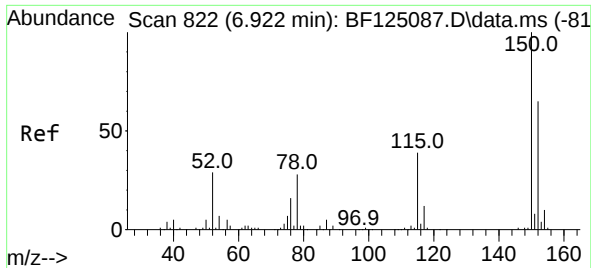
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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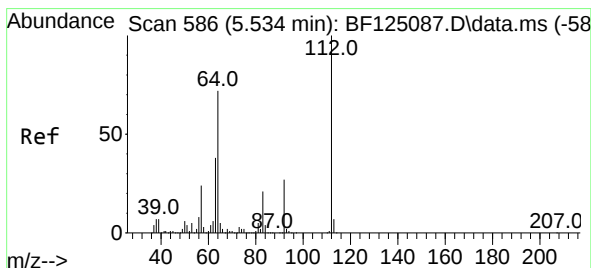
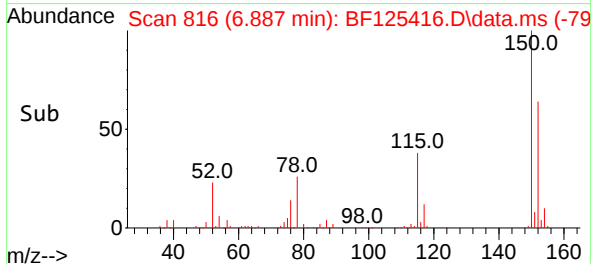
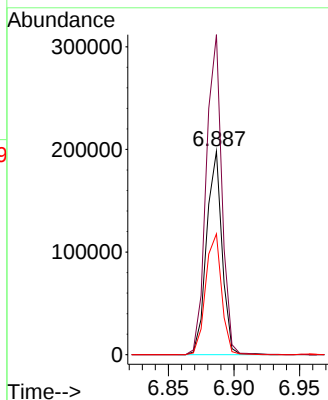
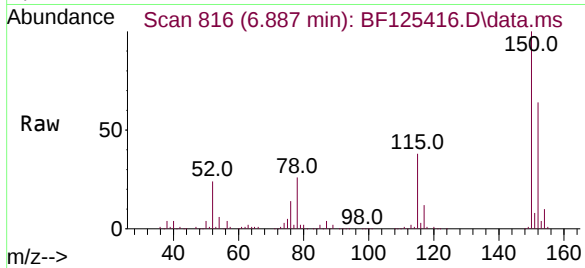




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.887 min Scan# 816  
Delta R.T. 0.001 min  
Lab File: BF125416.D  
Acq: 9 Sep 2021 18:05

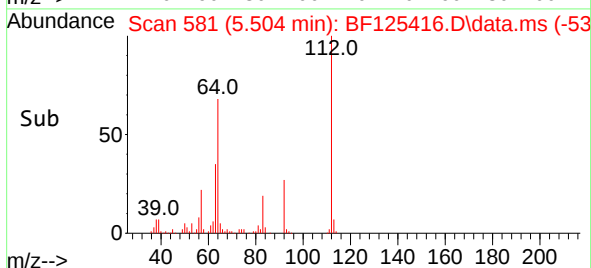
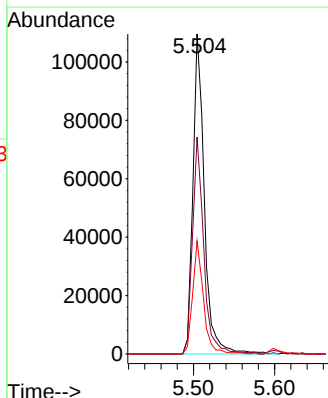
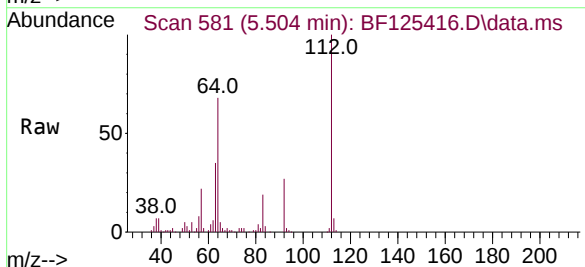
Instrument :  
BNA\_F  
ClientSampleId :  
UTILITY-POLES-BRIGE-PIERS-DEC

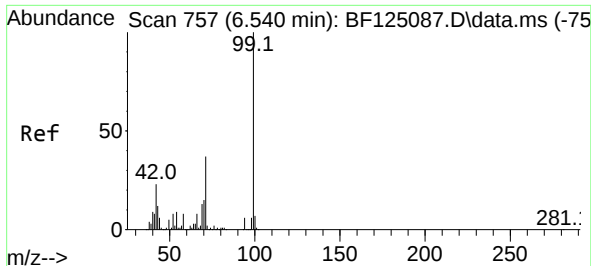
Tgt Ion:152 Resp: 162414  
Ion Ratio Lower Upper  
152 100  
150 157.3 117.6 176.4  
115 59.4 47.1 70.7



#5  
2-Fluorophenol  
Concen: 10.041 ng  
RT: 5.504 min Scan# 581  
Delta R.T. -0.006 min  
Lab File: BF125416.D  
Acq: 9 Sep 2021 18:05

Tgt Ion:112 Resp: 107745  
Ion Ratio Lower Upper  
112 100  
64 67.8 44.2 66.2#  
63 35.3 26.2 39.2

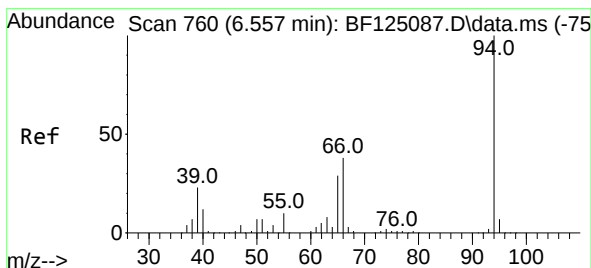
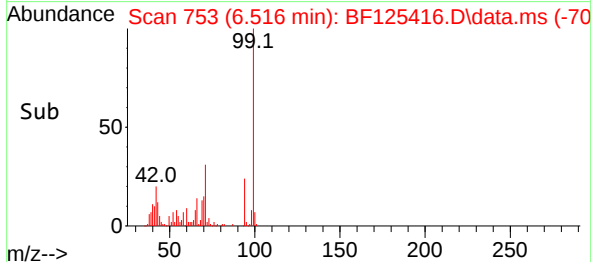
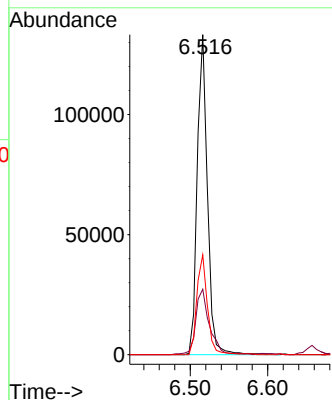
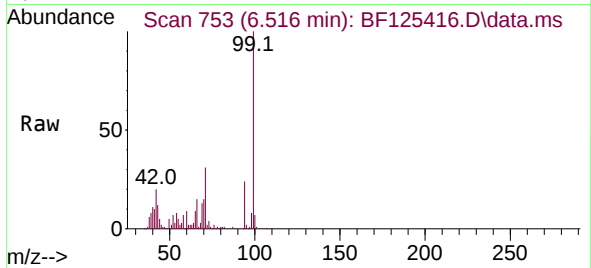




#7  
Phenol-d6  
Concen: 8.765 ng  
RT: 6.516 min Scan# 753  
Delta R.T. -0.012 min  
Lab File: BF125416.D  
Acq: 9 Sep 2021 18:05

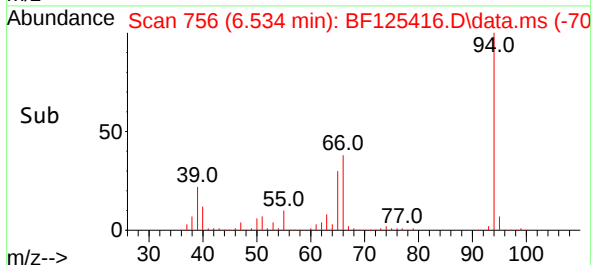
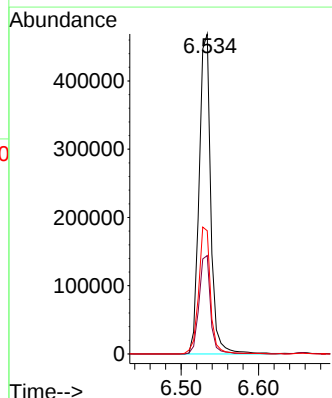
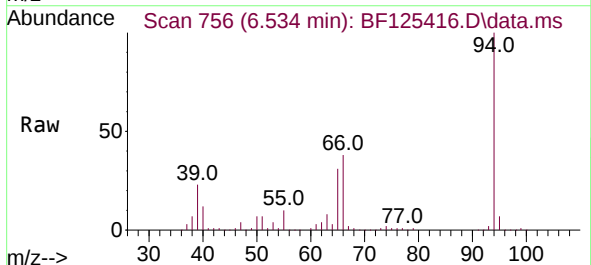
Instrument :  
BNA\_F  
ClientSampleId :  
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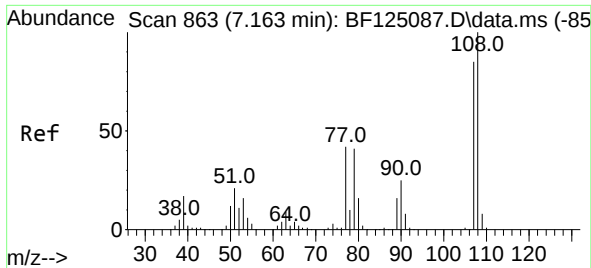
Tgt Ion: 99 Resp: 121642  
Ion Ratio Lower Upper  
99 100  
42 20.5 23.5 35.3#  
71 31.2 25.6 38.4



#10  
Phenol  
Concen: 33.528 ng  
RT: 6.534 min Scan# 756  
Delta R.T. -0.006 min  
Lab File: BF125416.D  
Acq: 9 Sep 2021 18:05

Tgt Ion: 94 Resp: 487263  
Ion Ratio Lower Upper  
94 100  
65 30.7 9.3 49.3  
66 38.5 20.3 60.3

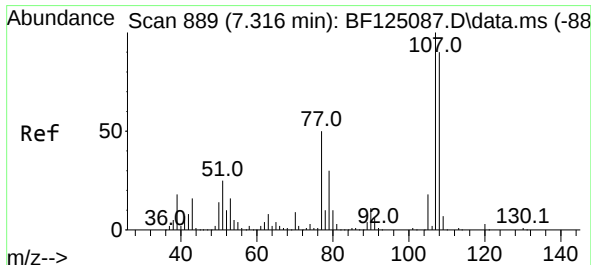
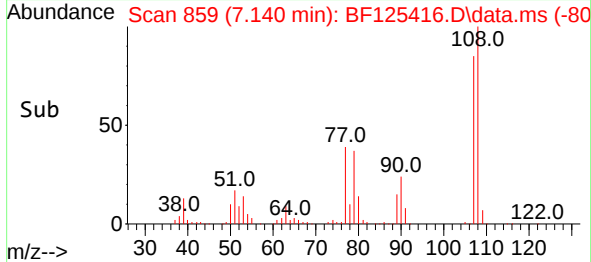
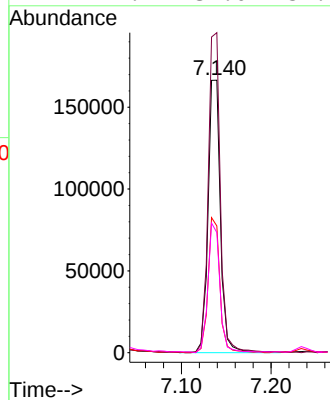
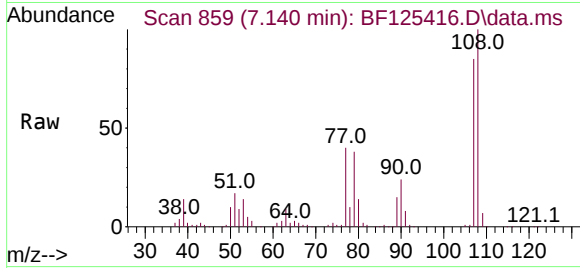




#17  
2-Methylphenol  
Concen: 17.343 ng  
RT: 7.140 min Scan# 859  
Delta R.T. -0.006 min  
Lab File: BF125416.D  
Acq: 9 Sep 2021 18:05

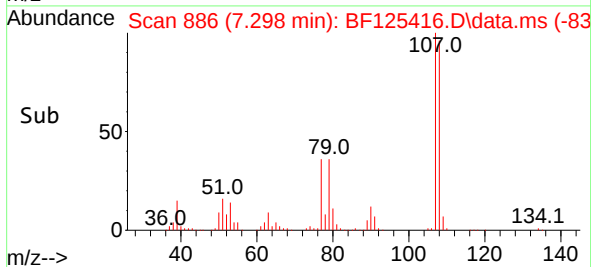
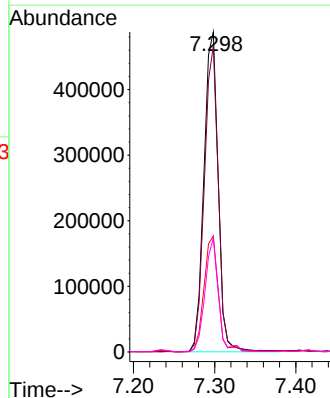
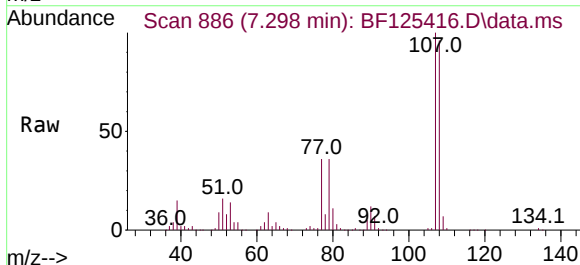
Instrument :  
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ClientSampleId :  
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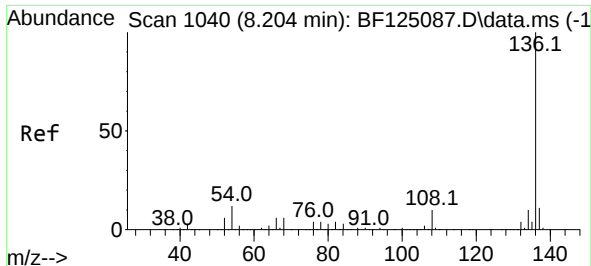
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 107   | Resp: | 159475 |
| Ion      | Ratio | Lower | Upper  |
| 107      | 100   |       |        |
| 108      | 117.4 | 90.6  | 135.8  |
| 77       | 46.5  | 35.7  | 53.5   |
| 79       | 44.1  | 34.0  | 51.0   |



#20  
3+4-Methylphenols  
Concen: 51.521 ng  
RT: 7.298 min Scan# 886  
Delta R.T. 0.000 min  
Lab File: BF125416.D  
Acq: 9 Sep 2021 18:05

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 107   | Resp: | 594694 |
| Ion      | Ratio | Lower | Upper  |
| 107      | 100   |       |        |
| 108      | 95.6  | 76.6  | 116.6  |
| 77       | 36.3  | 53.3  | 93.3#  |
| 79       | 35.6  | 8.7   | 48.7   |

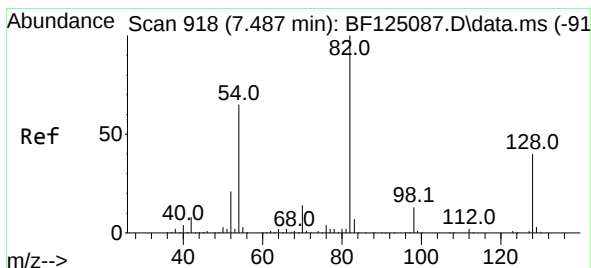
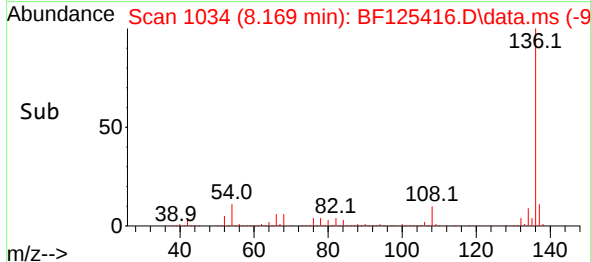
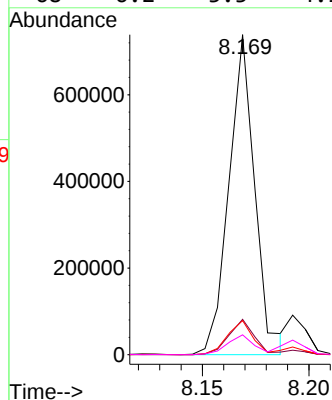
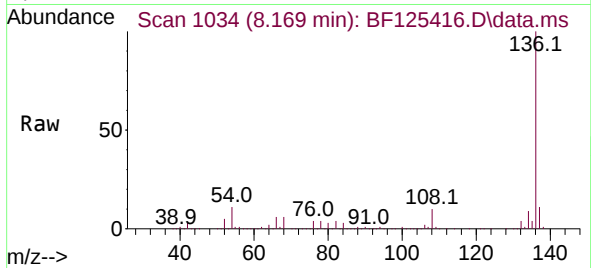




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.169 min Scan# 1034  
Delta R.T. -0.006 min  
Lab File: BF125416.D  
Acq: 9 Sep 2021 18:05

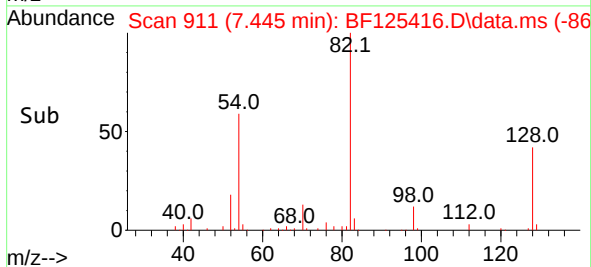
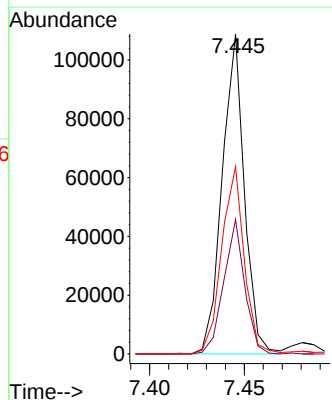
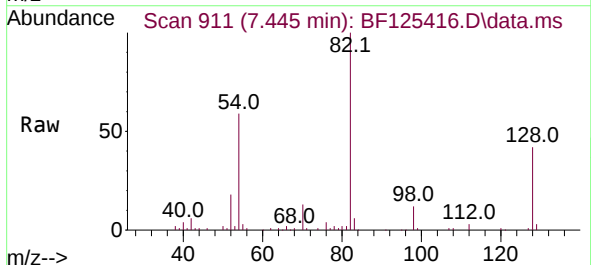
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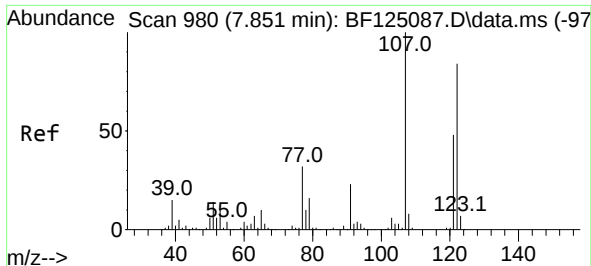
Tgt Ion:136 Resp: 623753  
Ion Ratio Lower Upper  
136 100  
137 11.0 9.8 14.6  
54 10.6 6.4 9.6#  
68 6.2 3.3 4.9#



#23  
Nitrobenzene-d5  
Concen: 7.160 ng  
RT: 7.445 min Scan# 911  
Delta R.T. -0.012 min  
Lab File: BF125416.D  
Acq: 9 Sep 2021 18:05

Tgt Ion: 82 Resp: 88711  
Ion Ratio Lower Upper  
82 100  
128 42.0 40.6 60.8  
54 58.6 49.6 74.4

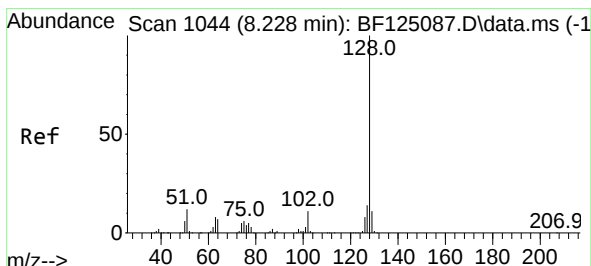
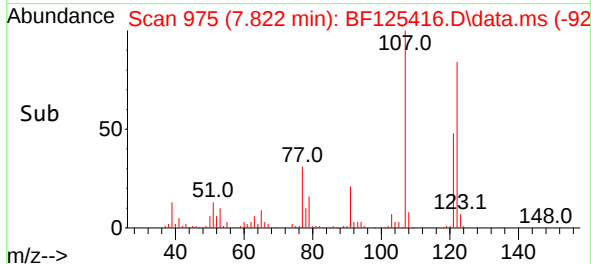
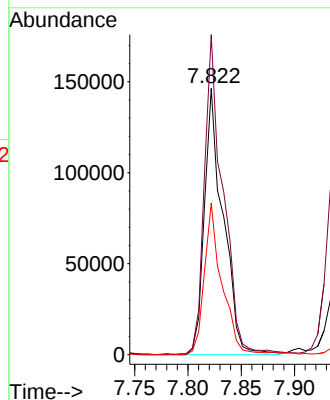
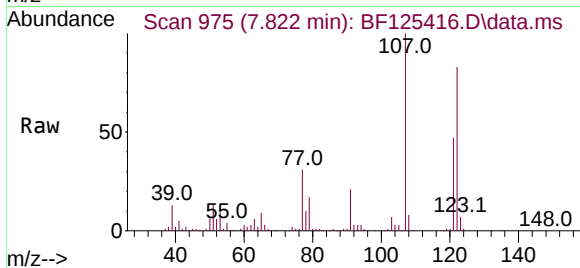




#27  
2,4-Dimethylphenol  
Concen: 18.954 ng  
RT: 7.822 min Scan# 975  
Delta R.T. 0.000 min  
Lab File: BF125416.D  
Acq: 9 Sep 2021 18:05

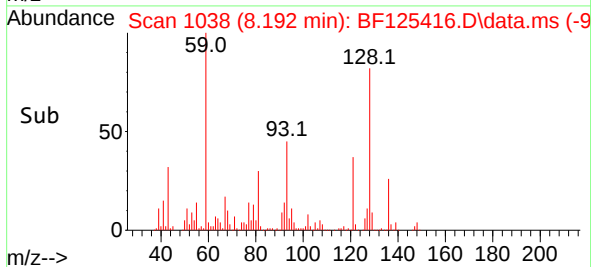
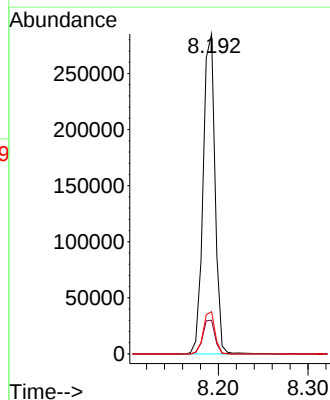
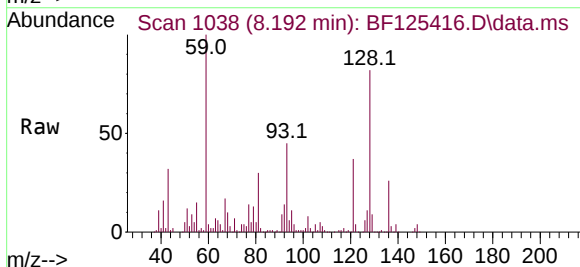
Instrument :  
BNA\_F  
ClientSampleId :  
UTILITY-POLES-BRIGE-PIERS-DEC

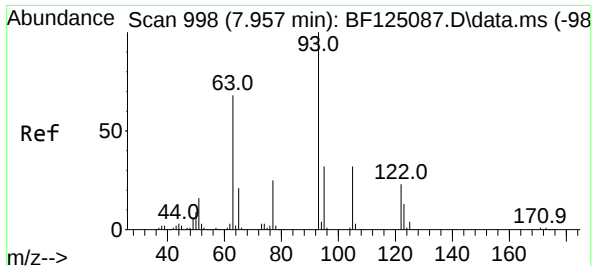
Tgt Ion:122 Resp: 178876  
Ion Ratio Lower Upper  
122 100  
107 120.2 85.0 127.6  
121 57.0 43.3 64.9



#31  
Naphthalene  
Concen: 8.241 ng  
RT: 8.192 min Scan# 1038  
Delta R.T. 0.000 min  
Lab File: BF125416.D  
Acq: 9 Sep 2021 18:05

Tgt Ion:128 Resp: 263243  
Ion Ratio Lower Upper  
128 100  
129 10.5 9.4 14.0  
127 13.2 10.9 16.3

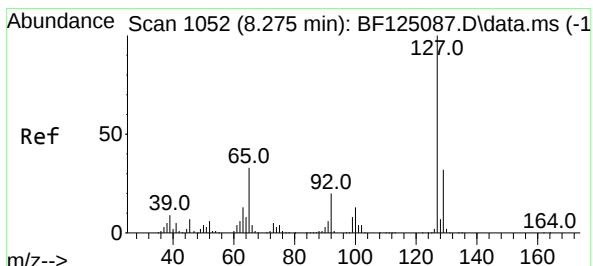
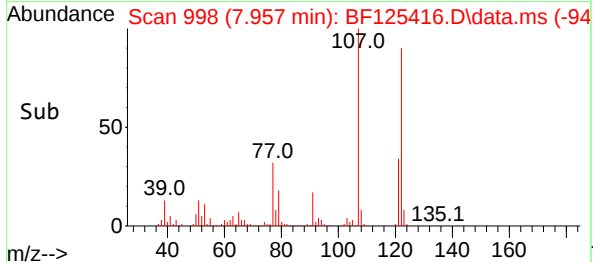
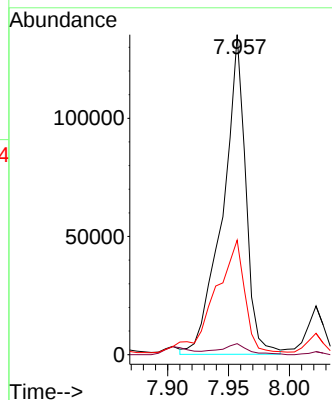
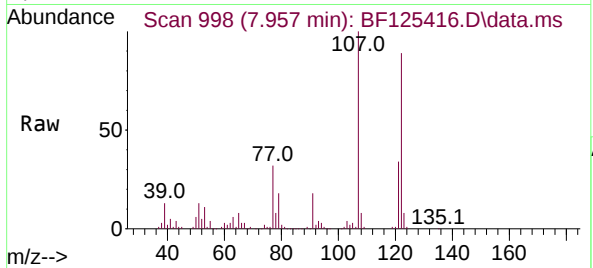




#32  
Benzoic acid  
Concen: 27.782 ng  
RT: 7.957 min Scan# 998  
Delta R.T. 0.006 min  
Lab File: BF125416.D  
Acq: 9 Sep 2021 18:05

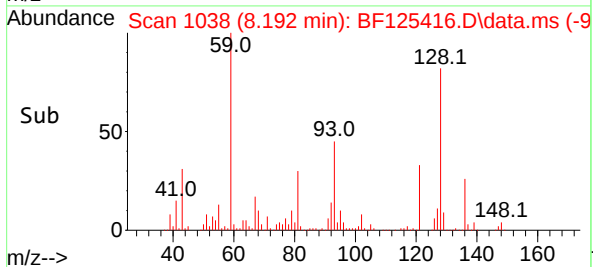
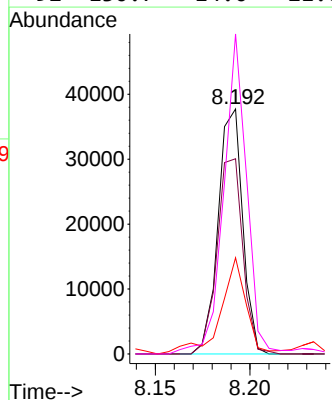
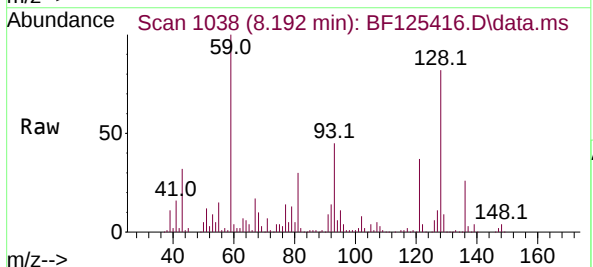
Instrument :  
BNA\_F  
ClientSampleId :  
UTILITY-POLES-BRIGE-PIERS-DEC

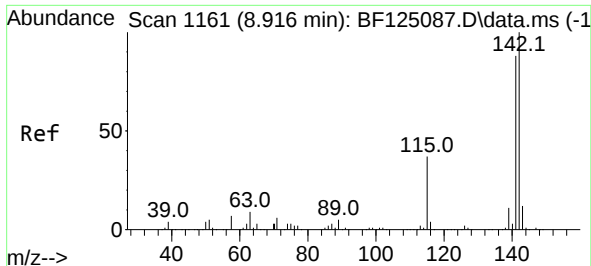
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Ion Ratio Lower Upper  
122 100  
105 3.5 97.6 137.6#  
77 35.8 59.6 99.6#



#33  
4-Chloroaniline  
Concen: 2.695 ng  
RT: 8.192 min Scan# 1038  
Delta R.T. -0.053 min  
Lab File: BF125416.D  
Acq: 9 Sep 2021 18:05

Tgt Ion:127 Resp: 33944  
Ion Ratio Lower Upper  
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129 79.7 25.7 38.5#  
65 39.2 21.2 31.8#  
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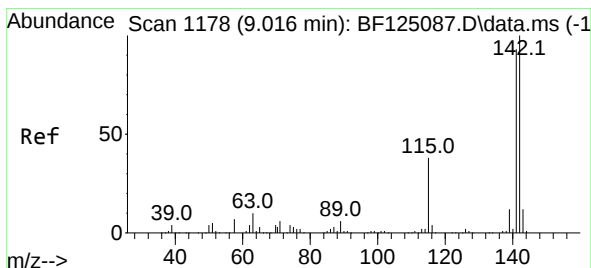
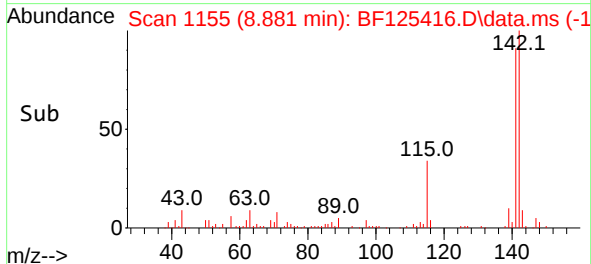
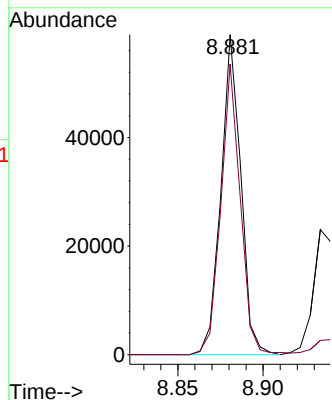
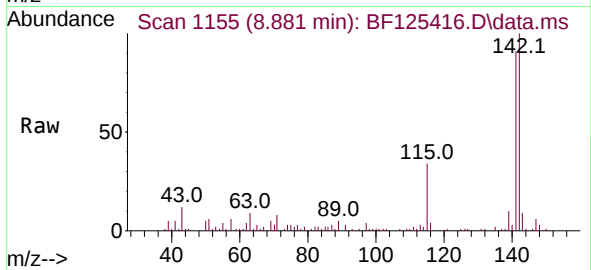




#37  
2-Methylnaphthalene  
Concen: 2.265 ng  
RT: 8.881 min Scan# 1155  
Delta R.T. -0.006 min  
Lab File: BF125416.D  
Acq: 9 Sep 2021 18:05

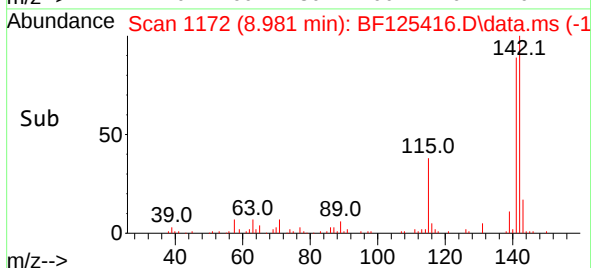
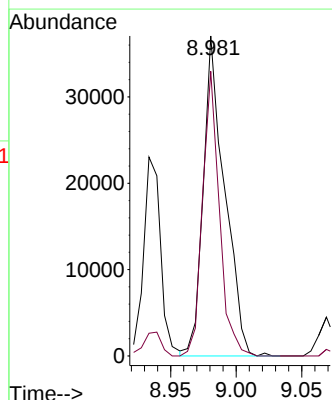
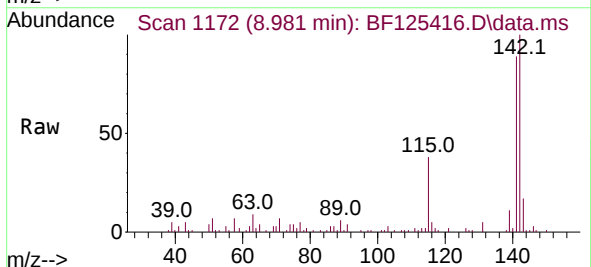
Instrument :  
BNA\_F  
ClientSampleId :  
UTILITY-POLES-BRIGE-PIERS-DEC

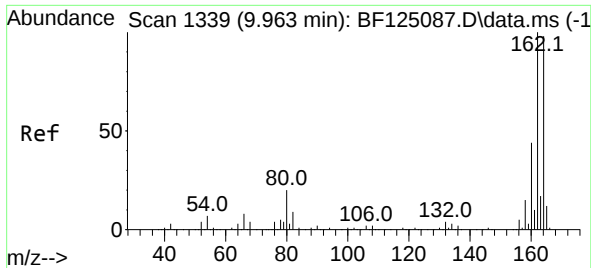
Tgt Ion:142 Resp: 47807  
Ion Ratio Lower Upper  
142 100  
141 90.8 71.2 106.8



#38  
1-Methylnaphthalene  
Concen: 2.136 ng  
RT: 8.981 min Scan# 1172  
Delta R.T. -0.006 min  
Lab File: BF125416.D  
Acq: 9 Sep 2021 18:05

Tgt Ion:142 Resp: 42110  
Ion Ratio Lower Upper  
142 100  
141 88.9 76.0 114.0

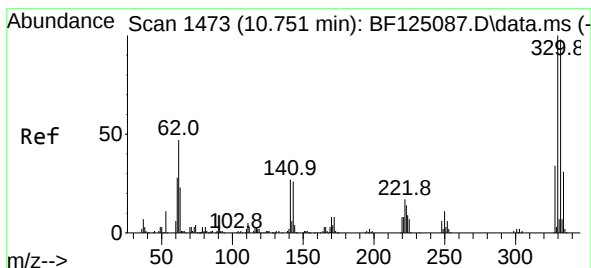
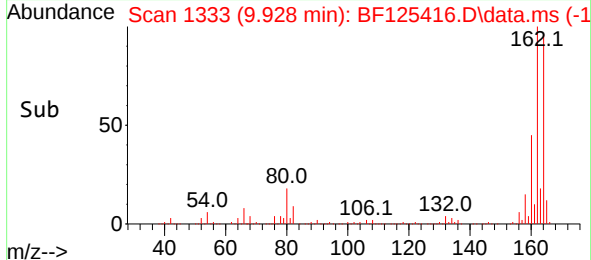
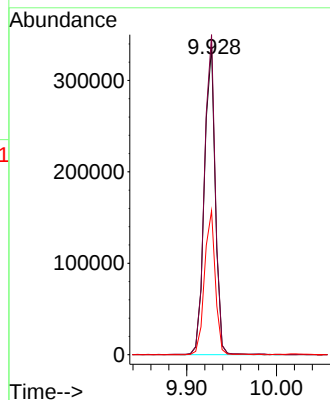
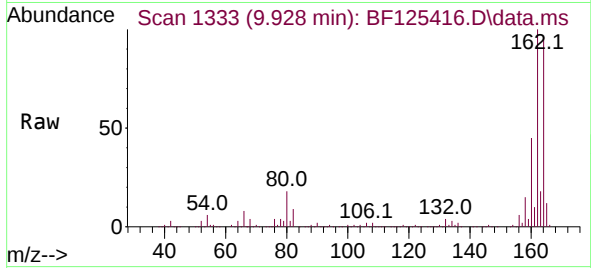




#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.928 min Scan# 1333  
Delta R.T. 0.000 min  
Lab File: BF125416.D  
Acq: 9 Sep 2021 18:05

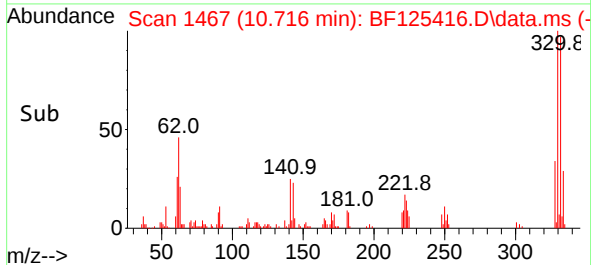
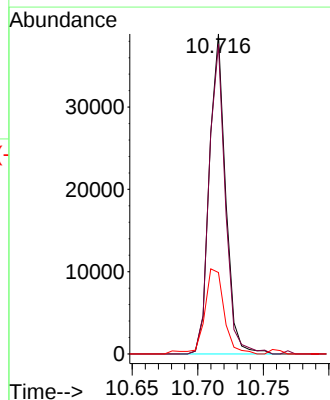
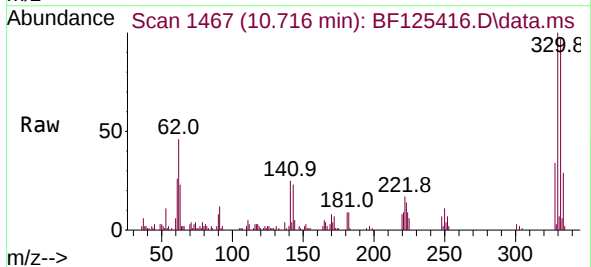
Instrument :  
BNA\_F  
ClientSampleId :  
UTILITY-POLES-BRIGE-PIERS-DEC

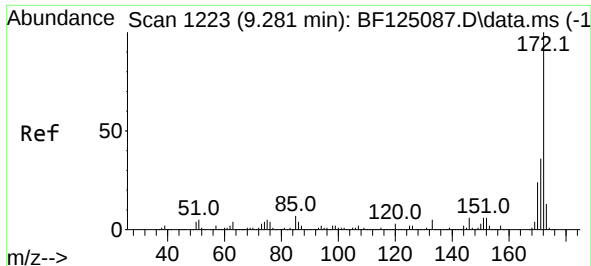
Tgt Ion:164 Resp: 284062  
Ion Ratio Lower Upper  
164 100  
162 103.9 81.3 121.9  
160 46.7 38.0 57.0



#42  
2,4,6-Tribromophenol  
Concen: 11.820 ng  
RT: 10.716 min Scan# 1467  
Delta R.T. -0.006 min  
Lab File: BF125416.D  
Acq: 9 Sep 2021 18:05

Tgt Ion:330 Resp: 33517  
Ion Ratio Lower Upper  
330 100  
332 97.0 76.2 114.4  
141 32.1 44.6 66.8#

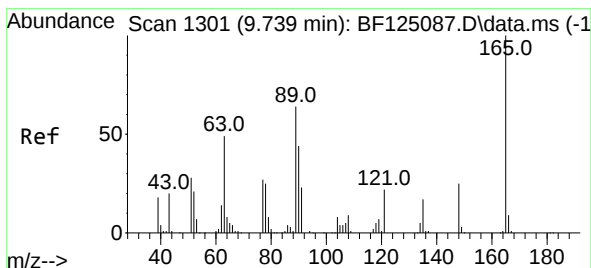
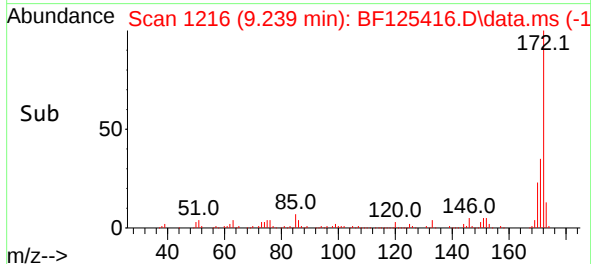
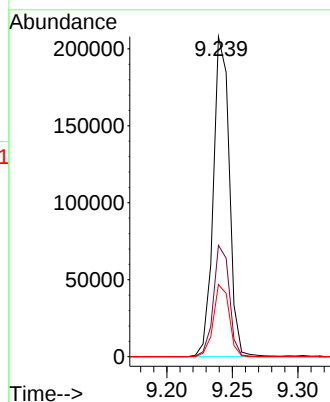
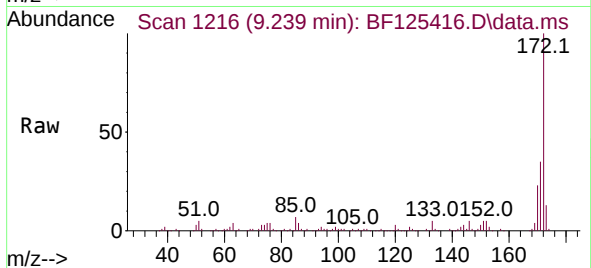




#45  
2-Fluorobiphenyl  
Concen: 8.686 ng  
RT: 9.239 min Scan# 1216  
Delta R.T. -0.012 min  
Lab File: BF125416.D  
Acq: 9 Sep 2021 18:05

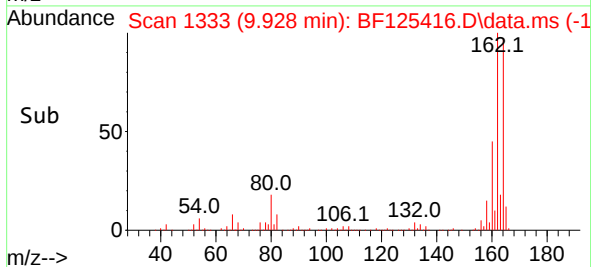
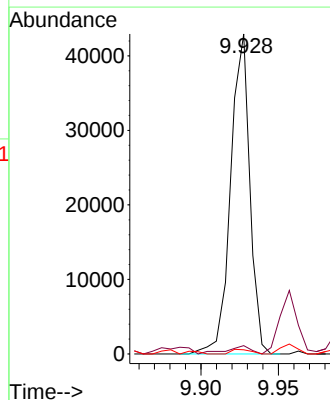
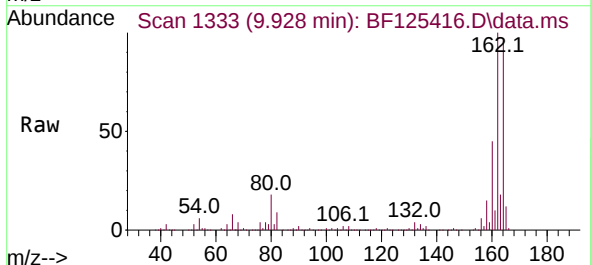
Instrument :  
BNA\_F  
ClientSampleId :  
UTILITY-POLES-BRIGE-PIERS-DEC

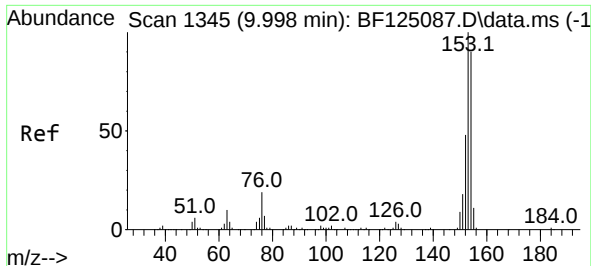
Tgt Ion:172 Resp: 177041  
Ion Ratio Lower Upper  
172 100  
171 34.8 26.5 39.7  
170 22.6 18.8 28.2



#51  
2,6-Dinitrotoluene  
Concen: 8.645 ng  
RT: 9.928 min Scan# 1333  
Delta R.T. 0.212 min  
Lab File: BF125416.D  
Acq: 9 Sep 2021 18:05

Tgt Ion:165 Resp: 36901  
Ion Ratio Lower Upper  
165 100  
63 2.6 42.6 63.8#  
89 1.3 40.6 60.8#

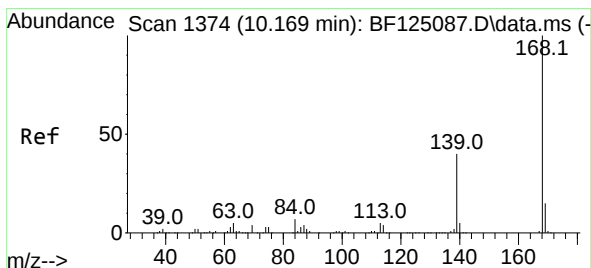
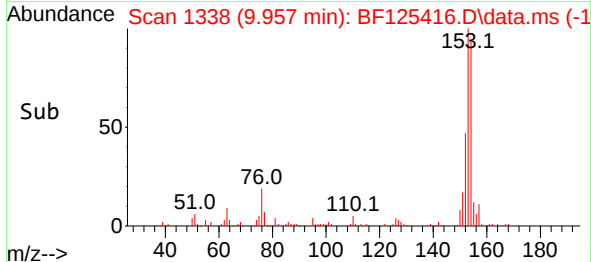
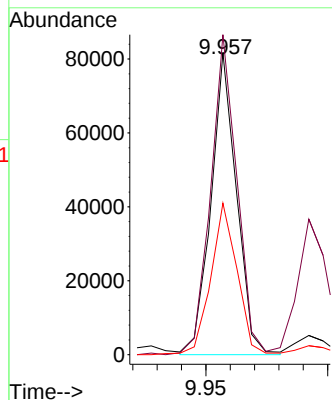
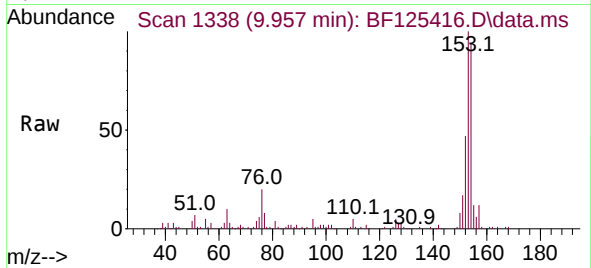




#52  
Acenaphthene  
Concen: 3.538 ng  
RT: 9.957 min Scan# 1338  
Delta R.T. -0.006 min  
Lab File: BF125416.D  
Acq: 9 Sep 2021 18:05

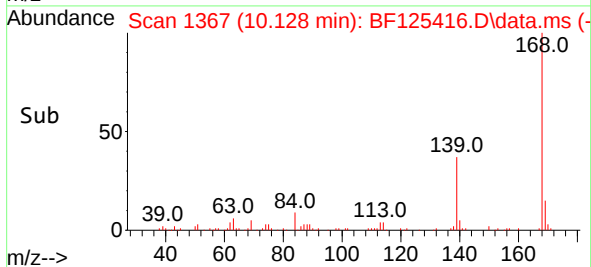
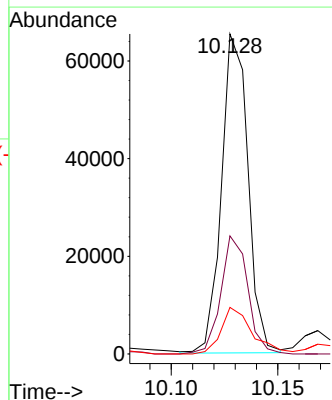
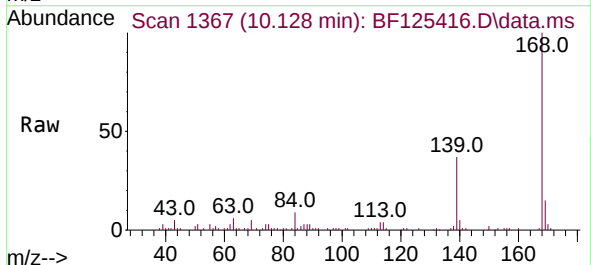
Instrument :  
BNA\_F  
ClientSampleId :  
UTILITY-POLES-BRIGE-PIERS-DEC

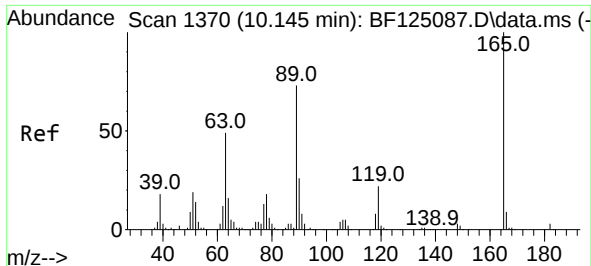
Tgt Ion:154 Resp: 59477  
Ion Ratio Lower Upper  
154 100  
153 106.0 89.4 134.2  
152 50.2 40.5 60.7



#55  
Dibenzofuran  
Concen: 2.333 ng  
RT: 10.128 min Scan# 1367  
Delta R.T. -0.006 min  
Lab File: BF125416.D  
Acq: 9 Sep 2021 18:05

Tgt Ion:168 Resp: 56454  
Ion Ratio Lower Upper  
168 100  
139 36.9 32.7 49.1  
169 14.6 11.2 16.8

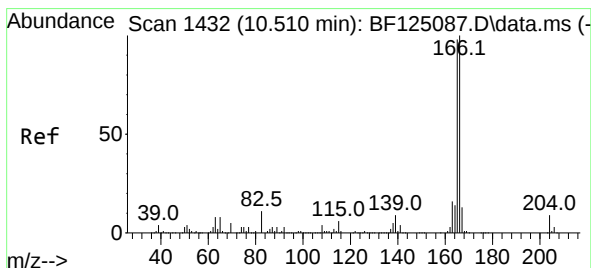
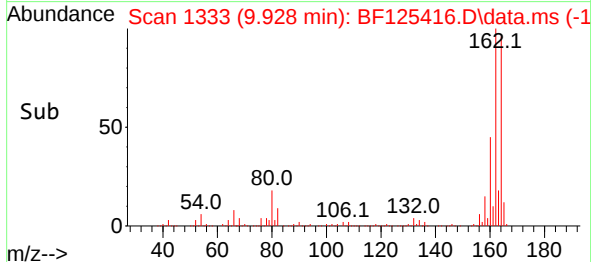
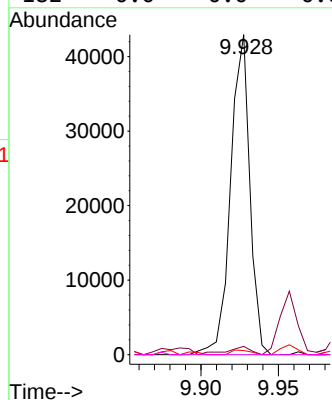
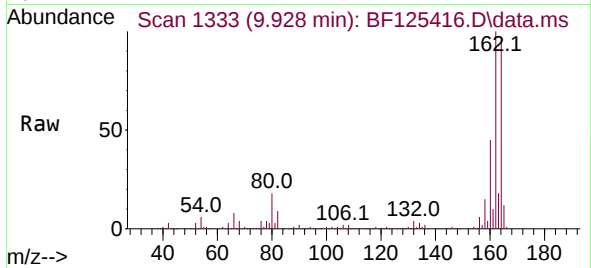




#57  
2,4-Dinitrotoluene  
Concen: 7.143 ng  
RT: 9.928 min Scan# 1333  
Delta R.T. -0.194 min  
Lab File: BF125416.D  
Acq: 9 Sep 2021 18:05

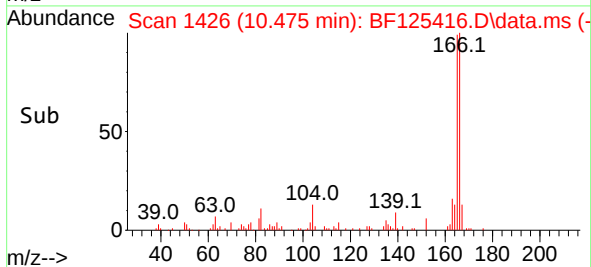
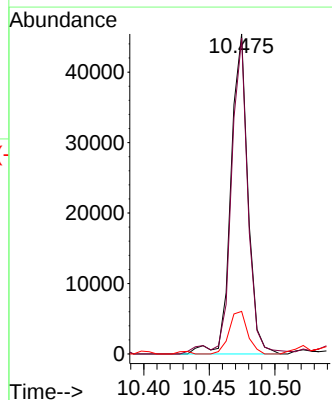
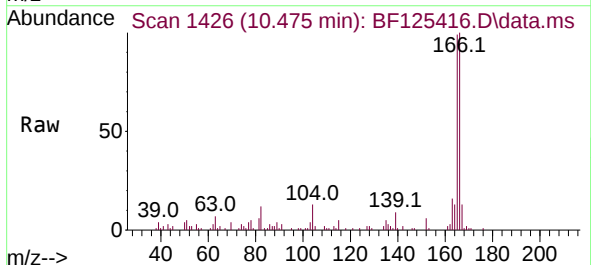
Instrument :  
BNA\_F  
ClientSampleId :  
UTILITY-POLES-BRIGE-PIERS-DEC

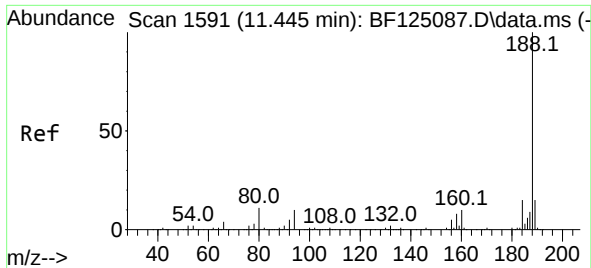
Tgt Ion:165 Resp: 36901  
Ion Ratio Lower Upper  
165 100  
63 2.6 40.9 61.3#  
89 1.3 59.7 89.5#  
182 0.0 0.0 0.0



#58  
Fluorene  
Concen: 2.289 ng  
RT: 10.475 min Scan# 1426  
Delta R.T. -0.006 min  
Lab File: BF125416.D  
Acq: 9 Sep 2021 18:05

Tgt Ion:166 Resp: 40949  
Ion Ratio Lower Upper  
166 100  
165 98.6 78.1 117.1  
167 13.3 11.1 16.7

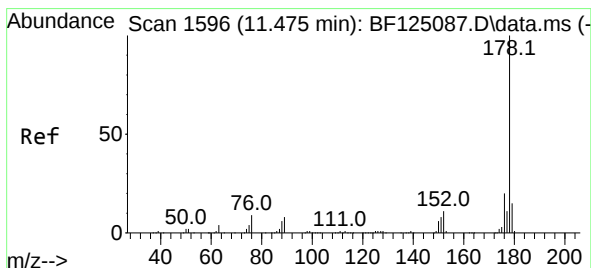
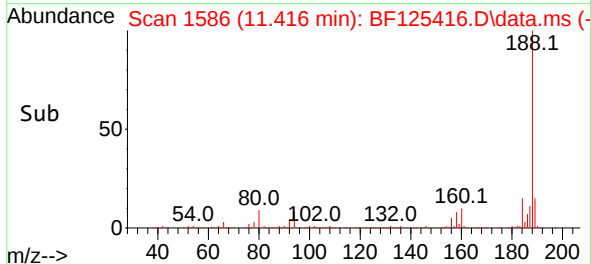
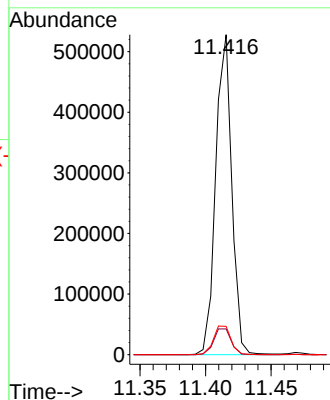
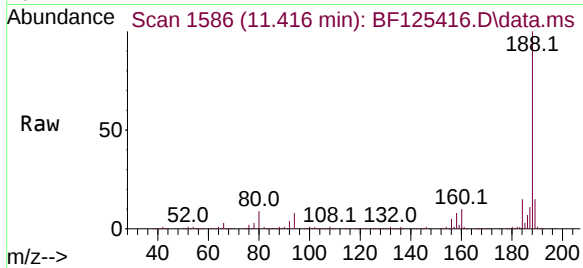




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.416 min Scan# 1586  
Delta R.T. 0.000 min  
Lab File: BF125416.D  
Acq: 9 Sep 2021 18:05

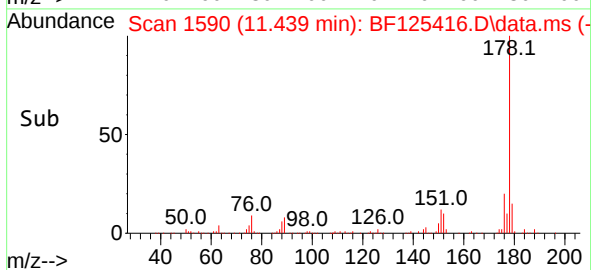
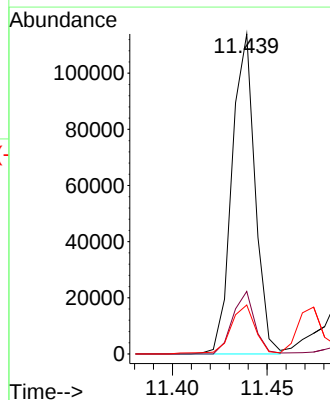
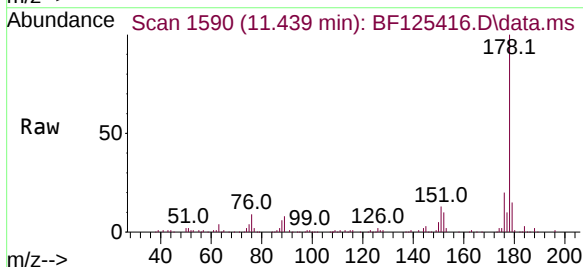
Instrument :  
BNA\_F  
ClientSampleId :  
UTILITY-POLES-BRIGE-PIERS-DEC

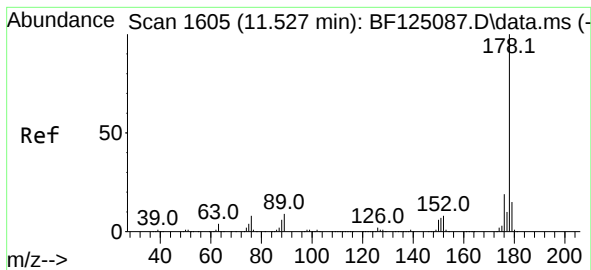
Tgt Ion:188 Resp: 448718  
Ion Ratio Lower Upper  
188 100  
94 8.1 6.7 10.1  
80 8.9 7.5 11.3



#71  
Phenanthrene  
Concen: 3.899 ng  
RT: 11.439 min Scan# 1590  
Delta R.T. -0.006 min  
Lab File: BF125416.D  
Acq: 9 Sep 2021 18:05

Tgt Ion:178 Resp: 96412  
Ion Ratio Lower Upper  
178 100  
176 19.5 14.7 22.1  
179 15.3 11.5 17.3





#72

Anthracene

Concen: 3.956 ng

RT: 11.439 min Scan# 1590

Delta R.T. -0.053 min

Lab File: BF125416.D

Acq: 9 Sep 2021 18:05

Tgt Ion:178 Resp: 96412

Ion Ratio Lower Upper

178 100

176 19.5 14.3 21.5

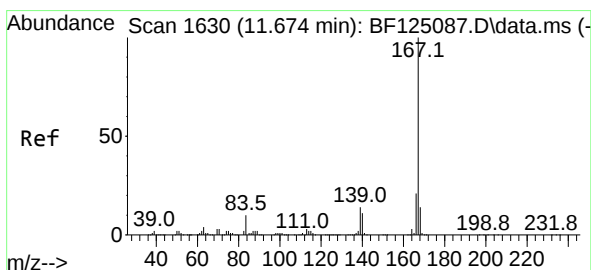
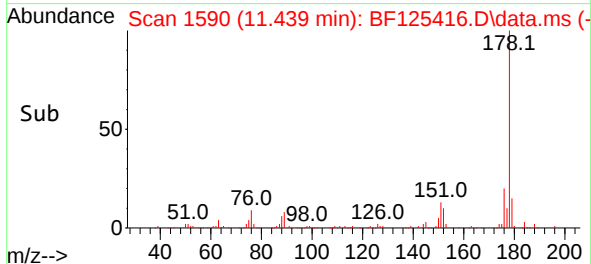
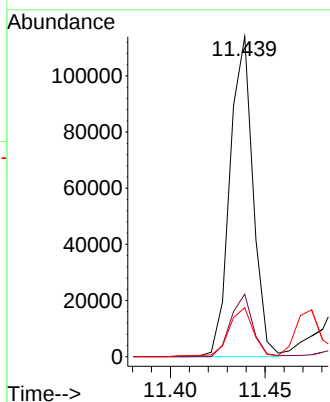
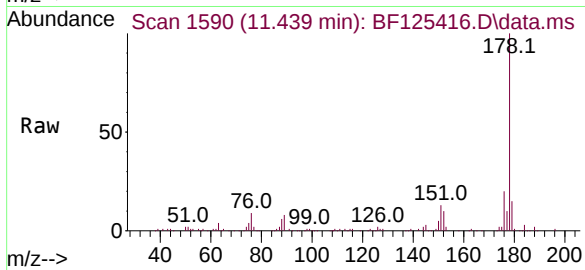
179 15.3 12.2 18.4

Instrument :

BNA\_F

ClientSampleId :

UTILITY-POLES-BRIGE-PIERS-DEC



#73

Carbazole

Concen: 3.805 ng

RT: 11.645 min Scan# 1625

Delta R.T. -0.006 min

Lab File: BF125416.D

Acq: 9 Sep 2021 18:05

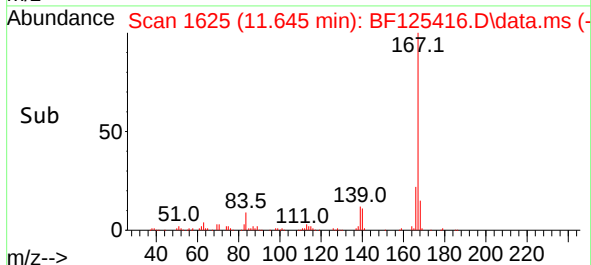
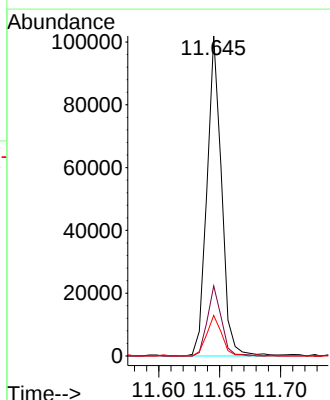
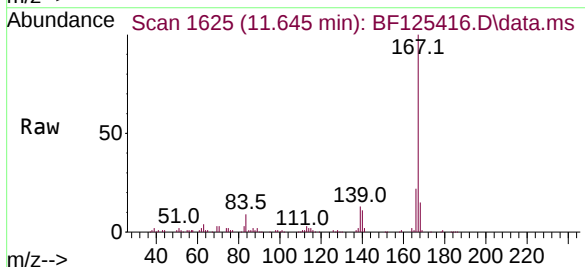
Tgt Ion:167 Resp: 84728

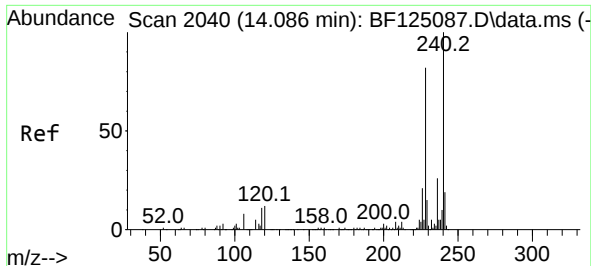
Ion Ratio Lower Upper

167 100

166 21.9 17.4 26.0

139 12.7 11.0 16.4

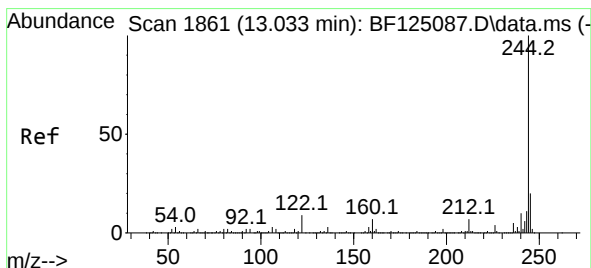
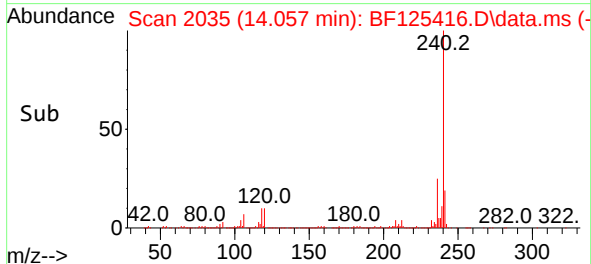
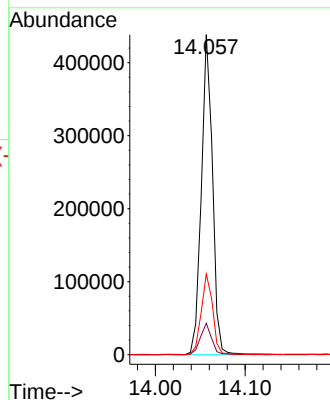
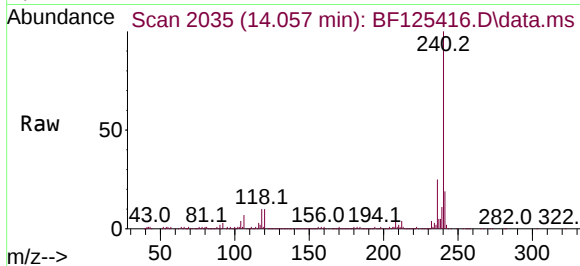




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.057 min Scan# 2035  
Delta R.T. -0.006 min  
Lab File: BF125416.D  
Acq: 9 Sep 2021 18:05

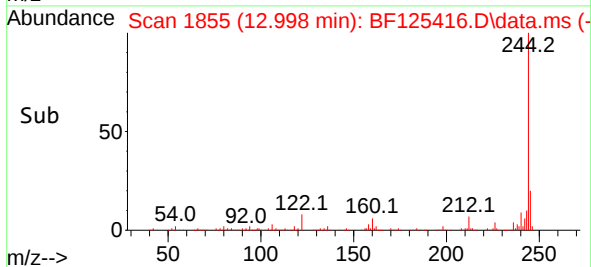
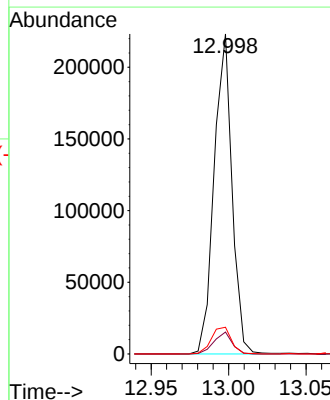
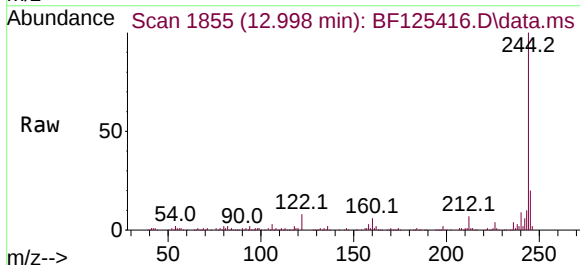
Instrument :  
BNA\_F  
ClientSampleId :  
UTILITY-POLES-BRIGE-PIERS-DEC

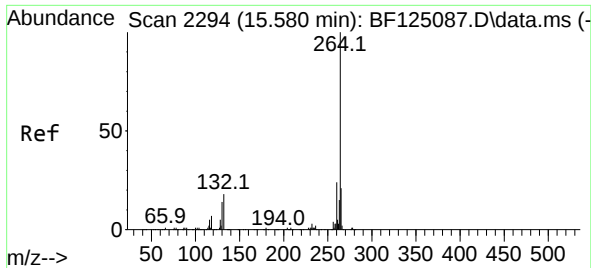
Tgt Ion:240 Resp: 377670  
Ion Ratio Lower Upper  
240 100  
120 9.8 10.8 16.2#  
236 25.2 21.6 32.4



#79  
Terphenyl-d14  
Concen: 7.544 ng  
RT: 12.998 min Scan# 1855  
Delta R.T. -0.006 min  
Lab File: BF125416.D  
Acq: 9 Sep 2021 18:05

Tgt Ion:244 Resp: 178854  
Ion Ratio Lower Upper  
244 100  
212 6.9 5.9 8.9  
122 8.3 9.0 13.4#





#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.551 min Scan# 2289  
Delta R.T. 0.006 min  
Lab File: BF125416.D  
Acq: 9 Sep 2021 18:05

Instrument :  
BNA\_F  
ClientSampleId :  
UTILITY-POLES-BRIGE-PIERS-DEC

Tgt Ion:264 Resp: 311578  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 24.8  | 19.6  | 29.4  |
| 265 | 20.9  | 17.2  | 25.8  |

