

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061221\  
 Data File : BF124287.D  
 Acq On : 12 Jun 2021 15:37  
 Operator : JU/CG  
 Sample : M2674-01 5X  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TMR-DS-01-060921

Quant Time: Jun 14 04:25:45 2021  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF060321.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jun 10 01:53:56 2021  
 Response via : Initial Calibration

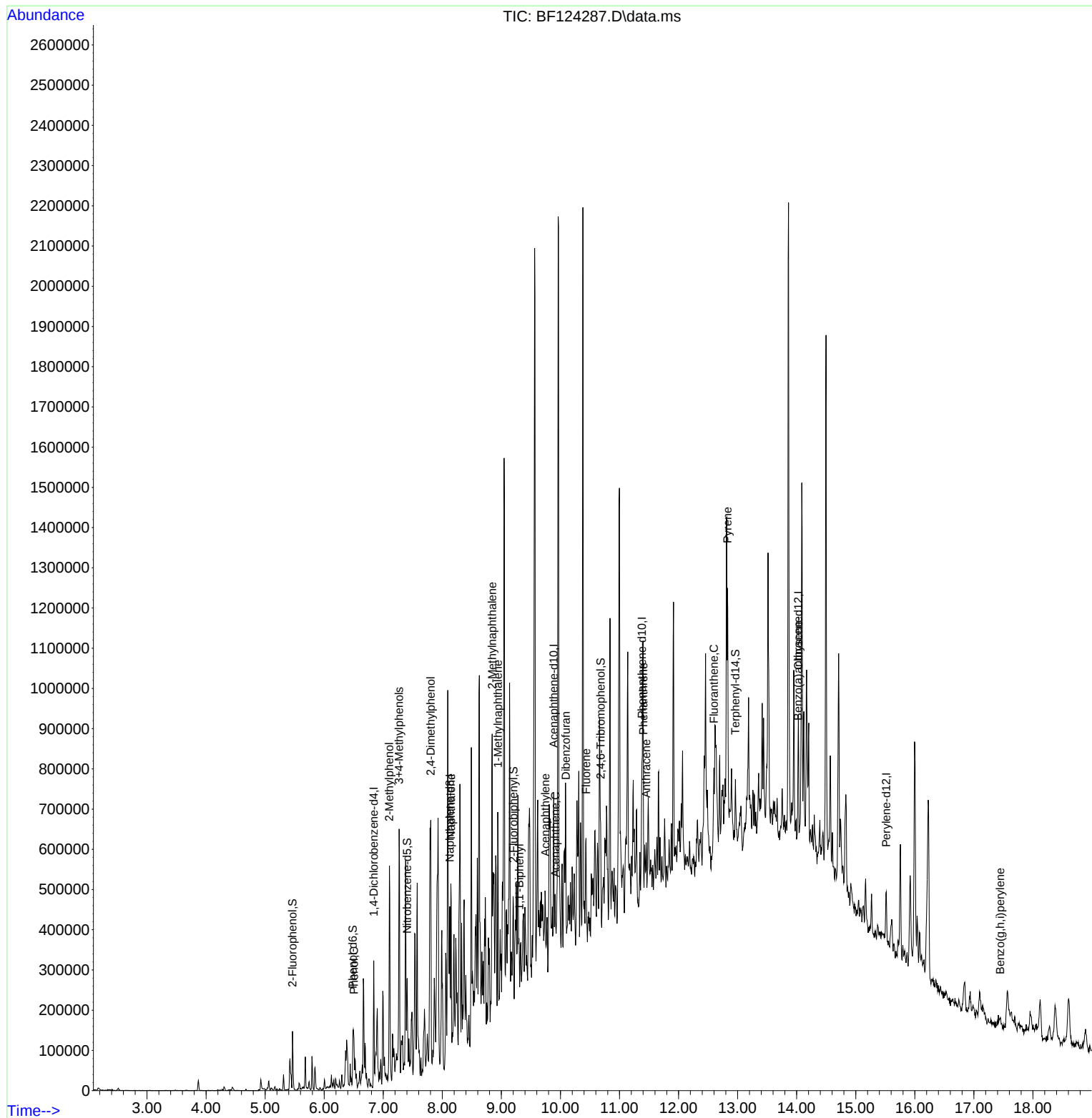
| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.839  | 152  | 35825    | 20.000 | ng    | -0.01    |
| 21) Naphthalene-d8          | 8.128  | 136  | 131577   | 20.000 | ng    | # 0.00   |
| 39) Acenaphthene-d10        | 9.886  | 164  | 67728    | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.380 | 188  | 95862    | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12            | 14.027 | 240  | 94554    | 20.000 | ng    | 0.00     |
| 86) Perylene-d12            | 15.515 | 264  | 51459    | 20.000 | ng    | 0.02     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.463  | 112  | 31867    | 13.390 | ng    | -0.02    |
| 7) Phenol-d6                | 6.487  | 99   | 39800    | 12.442 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.404  | 82   | 36663    | 11.051 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.680 | 330  | 10692    | 11.143 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.204  | 172  | 52212    | 9.701  | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.963 | 244  | 49113    | 7.131  | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 10) Phenol                  | 6.504  | 94   | 36900    | 10.674 | ng    | 88       |
| 17) 2-Methylphenol          | 7.104  | 107  | 73684    | 34.229 | ng    | 91       |
| 20) 3+4-Methylphenols       | 7.269  | 107  | 136725   | 47.934 | ng    | # 68     |
| 27) 2,4-Dimethylphenol      | 7.804  | 122  | 135411   | 64.593 | ng    | 91       |
| 31) Naphthalene             | 8.145  | 128  | 134160   | 17.054 | ng    | 98       |
| 37) 2-Methylnaphthalene     | 8.845  | 142  | 143259   | 25.969 | ng    | 94       |
| 38) 1-Methylnaphthalene     | 8.939  | 142  | 90861    | 17.625 | ng    | 97       |
| 46) 1,1'-Biphenyl           | 9.304  | 154  | 24364    | 4.261  | ng    | 96       |
| 49) Acenaphthylene          | 9.745  | 152  | 18069    | 2.671  | ng    | # 33     |
| 52) Acenaphthene            | 9.916  | 154  | 9518     | 2.154  | ng    | # 65     |
| 55) Dibenzofuran            | 10.092 | 168  | 48668    | 7.038  | ng    | # 94     |
| 58) Fluorene                | 10.433 | 166  | 51145    | 9.636  | ng    | # 82     |
| 71) Phenanthrene            | 11.404 | 178  | 76764    | 12.819 | ng    | # 95     |
| 72) Anthracene              | 11.451 | 178  | 32081    | 5.319  | ng    | # 91     |
| 75) Fluoranthene            | 12.598 | 202  | 26150    | 4.160  | ng    | 81       |
| 78) Pyrene                  | 12.827 | 202  | 45040    | 4.961  | ng    | # 91     |
| 81) Benzo(a)anthracene      | 14.021 | 228  | 14914    | 2.165  | ng    | # 72     |
| 92) Benzo(g,h,i)perylene    | 17.445 | 276  | 3593     | 4.724  | ng    | # 90     |
| -----                       |        |      |          |        |       |          |

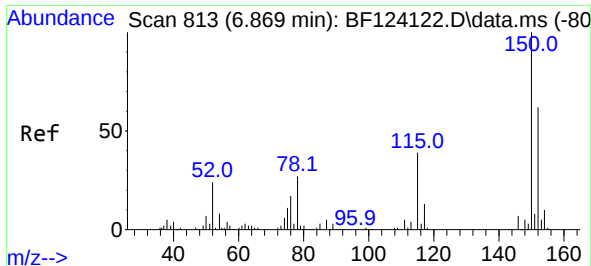
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061221\  
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QLast Update : Thu Jun 10 01:53:56 2021  
Response via : Initial Calibration

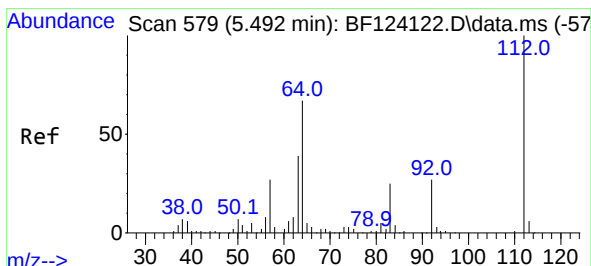
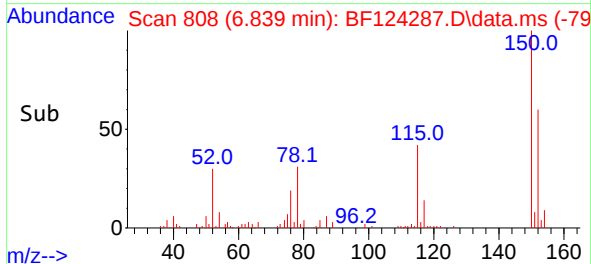
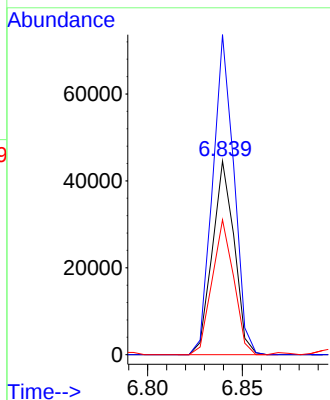
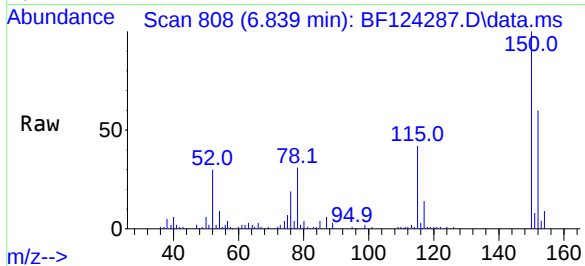




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.839 min Scan# 808  
Delta R.T. -0.012 min  
Lab File: BF124287.D  
Acq: 12 Jun 2021 15:37

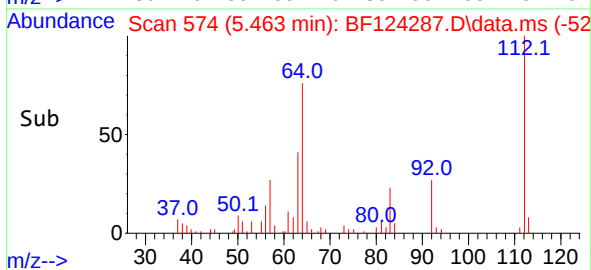
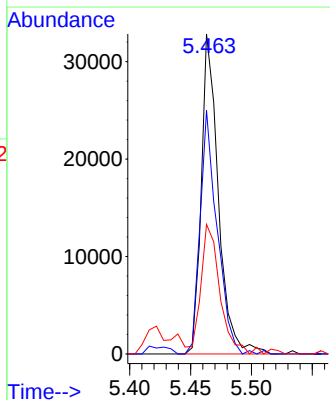
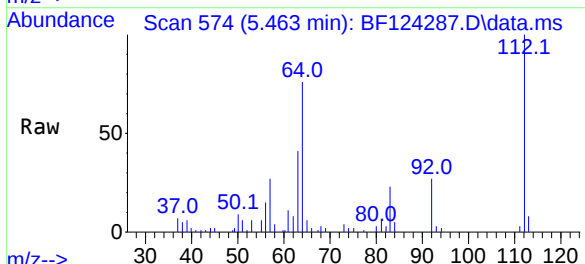
Instrument :  
BNA\_F  
ClientSampleId :  
TMR-DS-01-060921

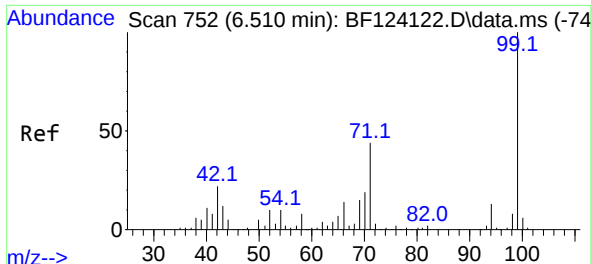
Tgt Ion:152 Resp: 35825  
Ion Ratio Lower Upper  
152 100  
150 165.3 127.0 190.6  
115 69.7 54.3 81.5



#5  
2-Fluorophenol  
Concen: 13.390 ng  
RT: 5.463 min Scan# 574  
Delta R.T. -0.018 min  
Lab File: BF124287.D  
Acq: 12 Jun 2021 15:37

Tgt Ion:112 Resp: 31867  
Ion Ratio Lower Upper  
112 100  
64 76.2 61.4 92.0  
63 40.5 33.0 49.4

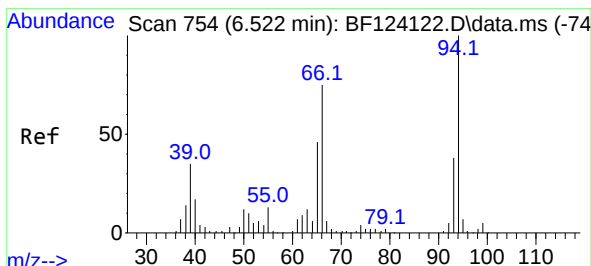
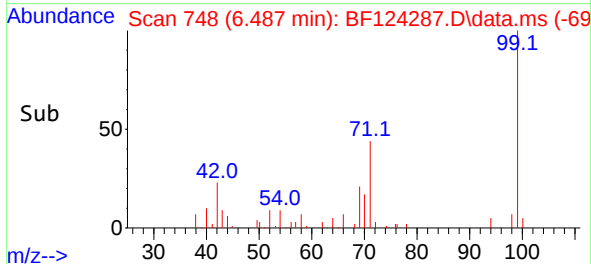
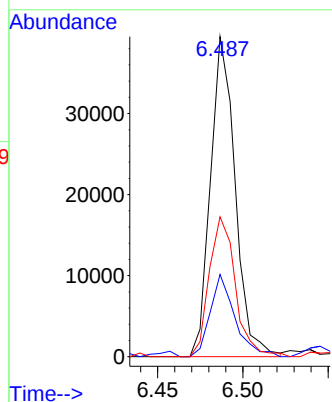
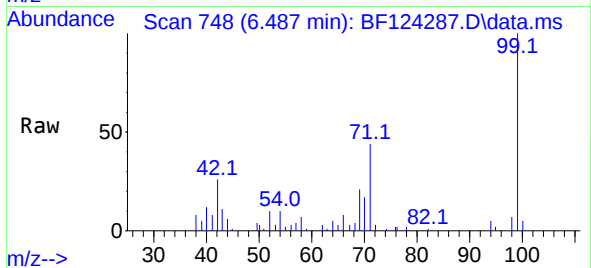




#7  
Phenol-d6  
Concen: 12.442 ng  
RT: 6.487 min Scan# 748  
Delta R.T. -0.012 min  
Lab File: BF124287.D  
Acq: 12 Jun 2021 15:37

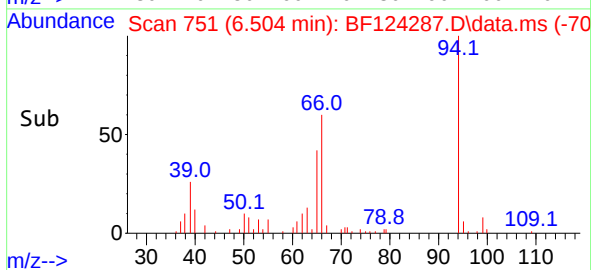
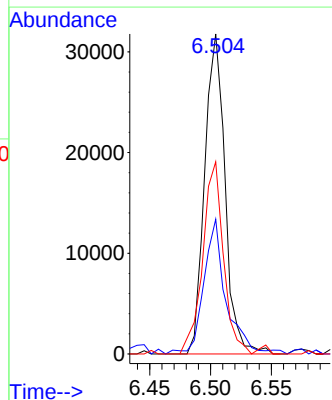
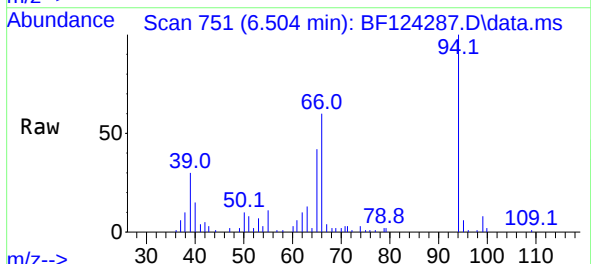
Instrument :  
BNA\_F  
ClientSampleId :  
TMR-DS-01-060921

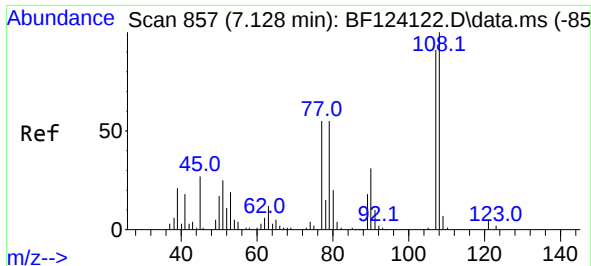
Tgt Ion: 99 Resp: 39800  
Ion Ratio Lower Upper  
99 100  
42 25.7 19.8 29.8  
71 43.7 31.1 46.7



#10  
Phenol  
Concen: 10.674 ng  
RT: 6.504 min Scan# 751  
Delta R.T. -0.006 min  
Lab File: BF124287.D  
Acq: 12 Jun 2021 15:37

Tgt Ion: 94 Resp: 36900  
Ion Ratio Lower Upper  
94 100  
65 42.1 18.1 58.1  
66 60.0 29.0 69.0



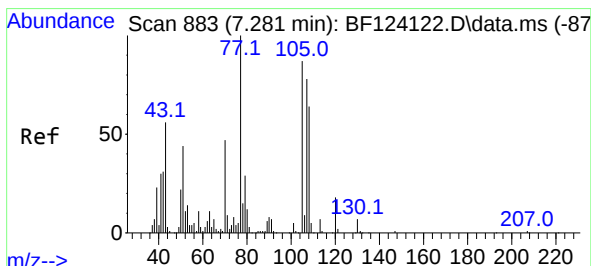
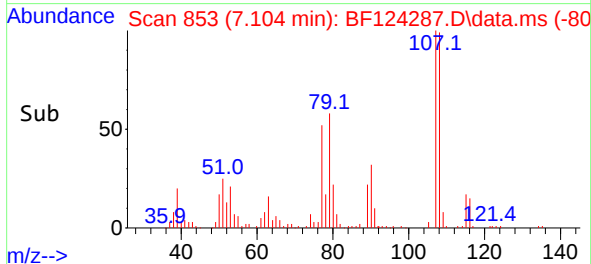
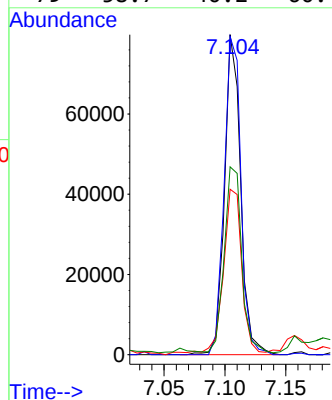
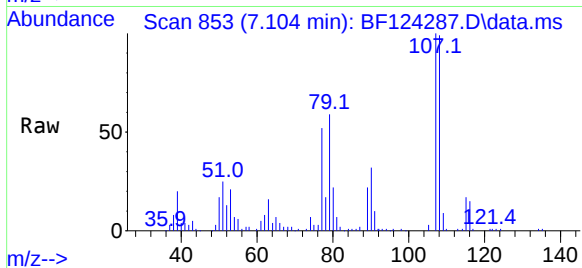


#17  
2-Methylphenol  
Concen: 34.229 ng  
RT: 7.104 min Scan# 853  
Delta R.T. -0.012 min  
Lab File: BF124287.D  
Acq: 12 Jun 2021 15:37

Instrument :  
BNA\_F  
ClientSampleId :  
TMR-DS-01-060921

Tgt Ion:107 Resp: 73684

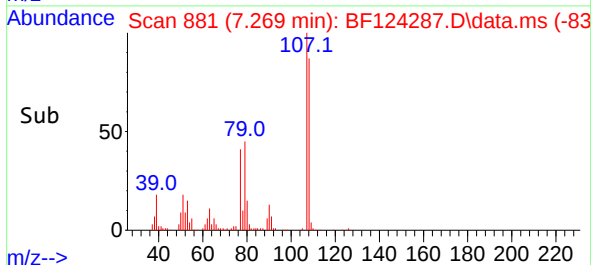
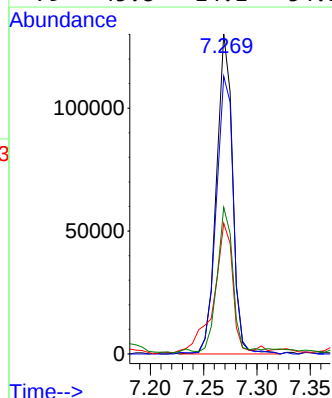
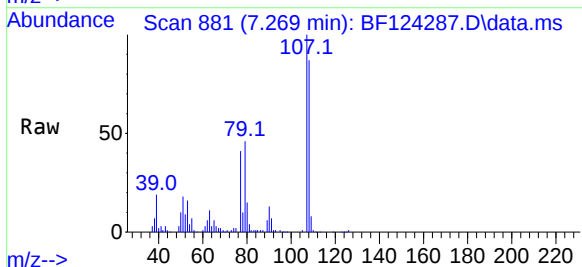
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 107 | 100   |       |       |
| 108 | 99.4  | 89.8  | 134.8 |
| 77  | 51.7  | 40.9  | 61.3  |
| 79  | 58.7  | 40.2  | 60.4  |

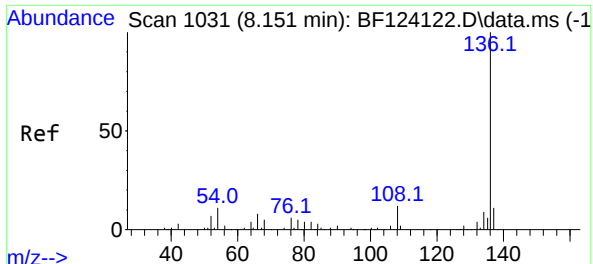


#20  
3+4-Methylphenols  
Concen: 47.934 ng  
RT: 7.269 min Scan# 881  
Delta R.T. 0.000 min  
Lab File: BF124287.D  
Acq: 12 Jun 2021 15:37

Tgt Ion:107 Resp: 136725

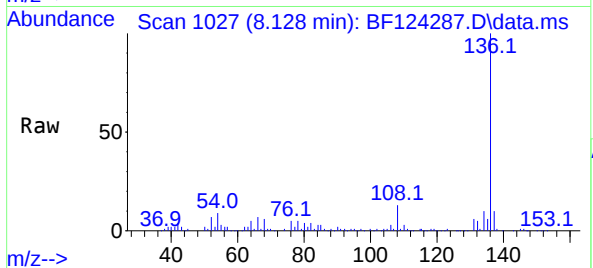
| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 107 | 100   |       |        |
| 108 | 86.8  | 71.5  | 111.5  |
| 77  | 40.9  | 82.0  | 122.0# |
| 79  | 45.8  | 14.1  | 54.1   |



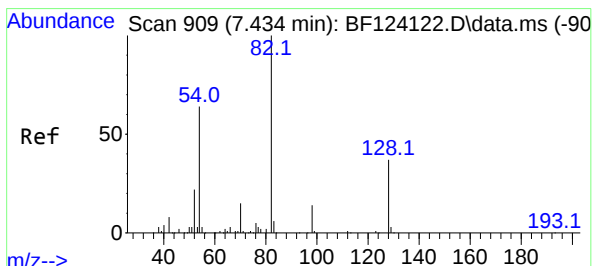
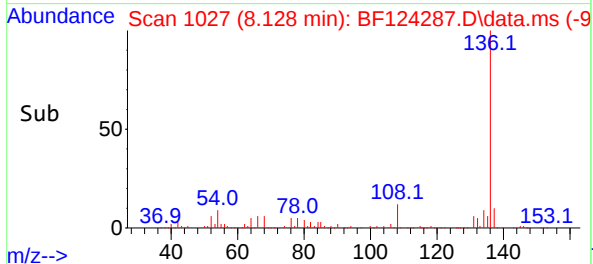
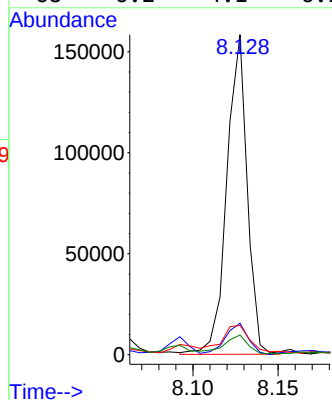


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.128 min Scan# 1027  
Delta R.T. -0.006 min  
Lab File: BF124287.D  
Acq: 12 Jun 2021 15:37

Instrument :  
BNA\_F  
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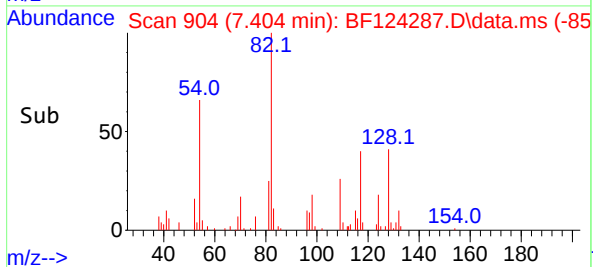
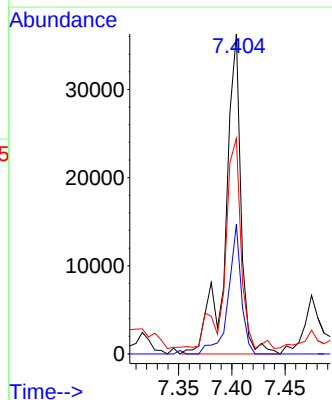
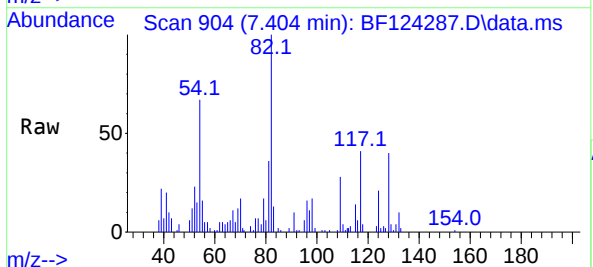


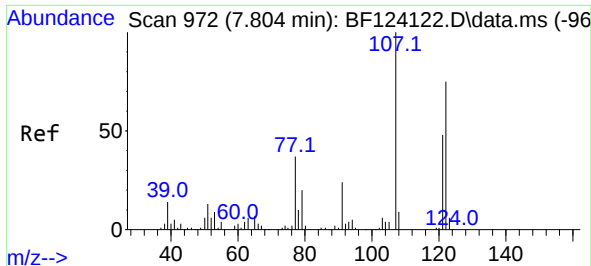
Tgt Ion:136 Resp: 131577  
Ion Ratio Lower Upper  
136 100  
137 9.8 8.7 13.1  
54 9.2 9.8 14.6#  
68 6.2 4.1 6.1#



#23  
Nitrobenzene-d5  
Concen: 11.051 ng  
RT: 7.404 min Scan# 904  
Delta R.T. -0.012 min  
Lab File: BF124287.D  
Acq: 12 Jun 2021 15:37

Tgt Ion: 82 Resp: 36663  
Ion Ratio Lower Upper  
82 100  
128 40.5 29.4 44.2  
54 67.4 54.1 81.1

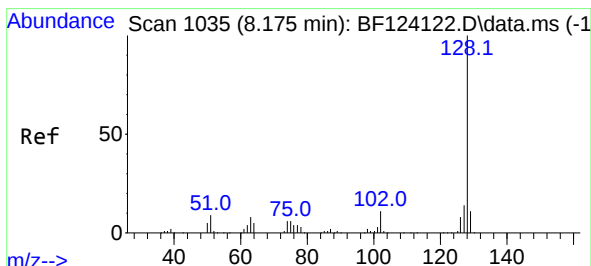
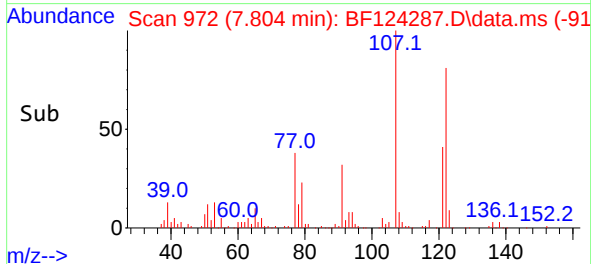
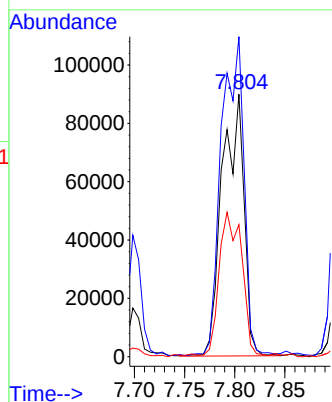
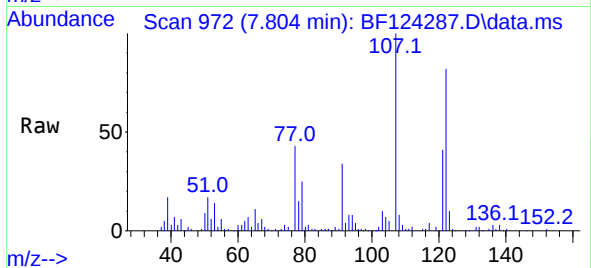




#27  
2,4-Dimethylphenol  
Concen: 64.593 ng  
RT: 7.804 min Scan# 972  
Delta R.T. 0.012 min  
Lab File: BF124287.D  
Acq: 12 Jun 2021 15:37

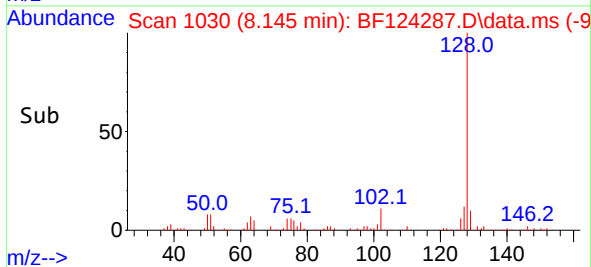
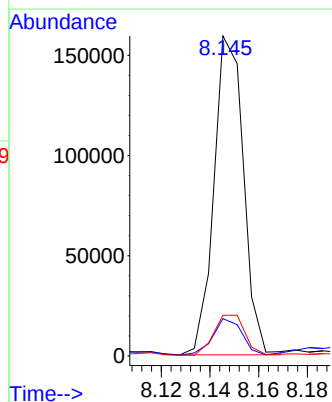
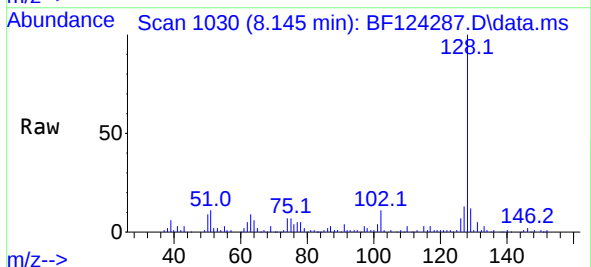
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TMR-DS-01-060921

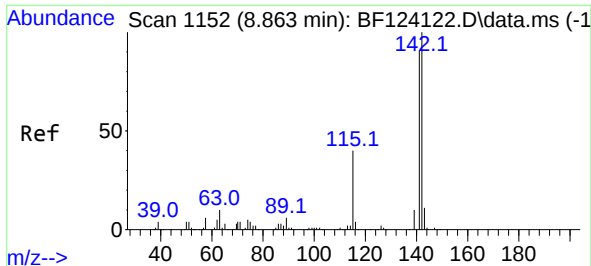
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Ion Ratio Lower Upper  
122 100  
107 121.9 106.3 159.5  
121 50.3 45.4 68.0



#31  
Naphthalene  
Concen: 17.054 ng  
RT: 8.145 min Scan# 1030  
Delta R.T. -0.012 min  
Lab File: BF124287.D  
Acq: 12 Jun 2021 15:37

Tgt Ion:128 Resp: 134160  
Ion Ratio Lower Upper  
128 100  
129 11.6 8.9 13.3  
127 12.7 10.8 16.2

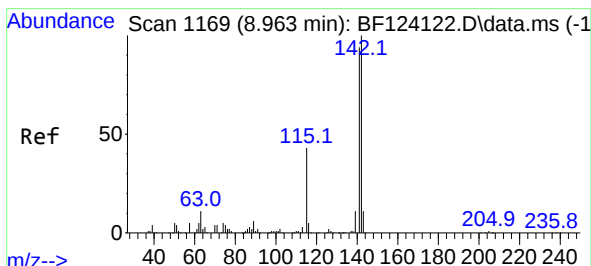
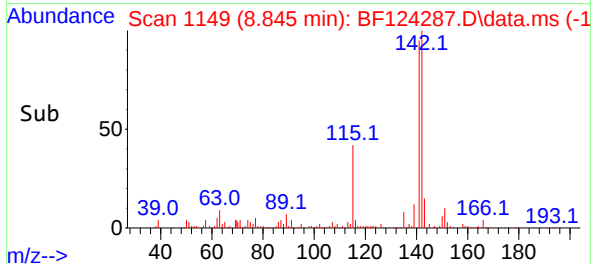
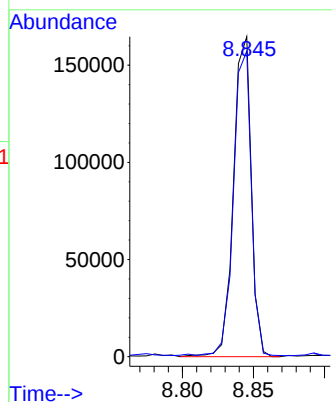
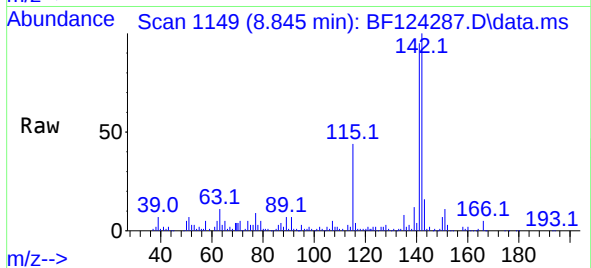




#37  
2-Methylnaphthalene  
Concen: 25.969 ng  
RT: 8.845 min Scan# 1149  
Delta R.T. 0.000 min  
Lab File: BF124287.D  
Acq: 12 Jun 2021 15:37

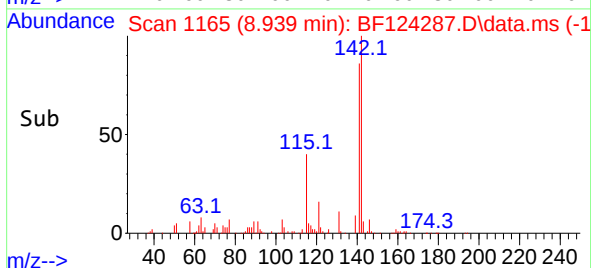
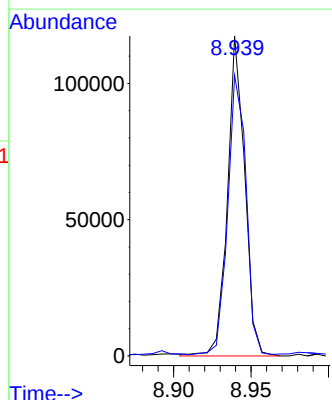
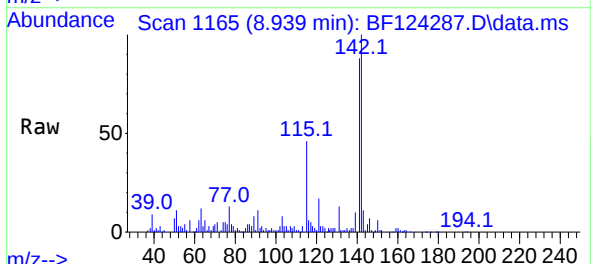
Instrument :  
BNA\_F  
ClientSampleId :  
TMR-DS-01-060921

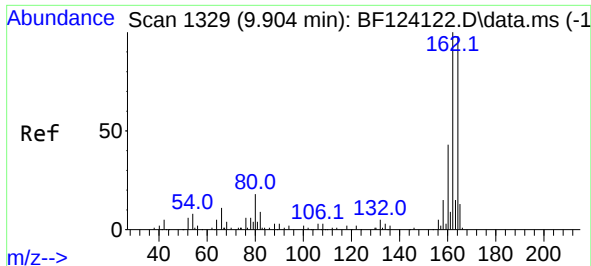
Tgt Ion:142 Resp: 143259  
Ion Ratio Lower Upper  
142 100  
141 95.5 71.8 107.6



#38  
1-Methylnaphthalene  
Concen: 17.625 ng  
RT: 8.939 min Scan# 1165  
Delta R.T. -0.006 min  
Lab File: BF124287.D  
Acq: 12 Jun 2021 15:37

Tgt Ion:142 Resp: 90861  
Ion Ratio Lower Upper  
142 100  
141 87.7 72.8 109.2





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.886 min Scan# 1326

Delta R.T. -0.006 min

Lab File: BF124287.D

Acq: 12 Jun 2021 15:37

Tgt Ion:164 Resp: 67728

Ion Ratio Lower Upper

164 100

162 107.1 80.7 121.1

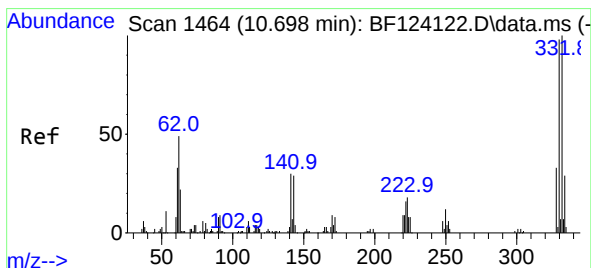
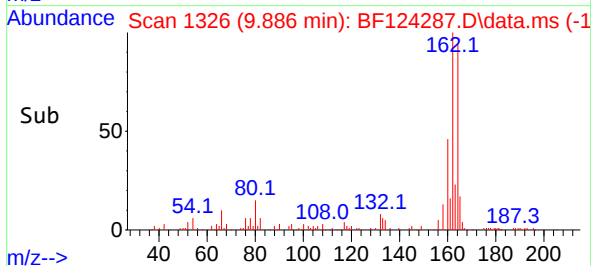
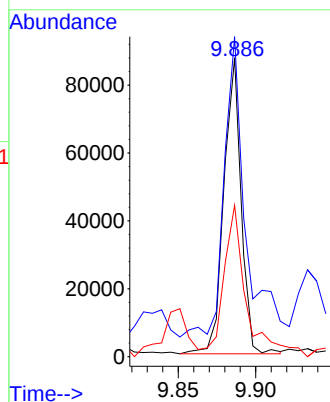
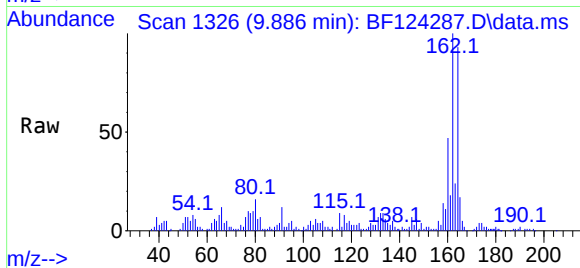
160 50.6 37.3 55.9

Instrument :

BNA\_F

ClientSampleId :

TMR-DS-01-060921



#42

2,4,6-Tribromophenol

Concen: 11.143 ng

RT: 10.680 min Scan# 1461

Delta R.T. 0.000 min

Lab File: BF124287.D

Acq: 12 Jun 2021 15:37

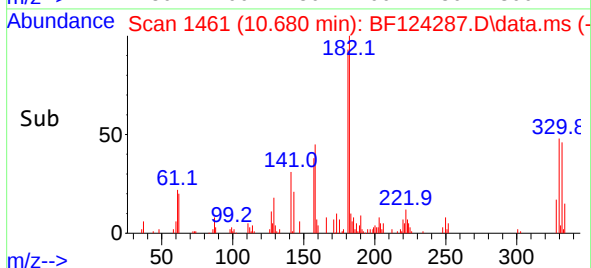
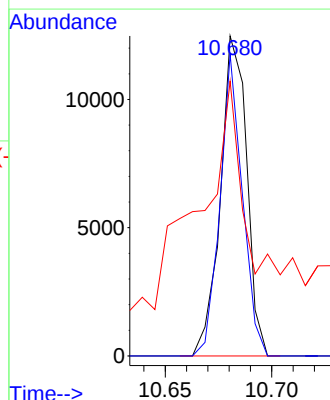
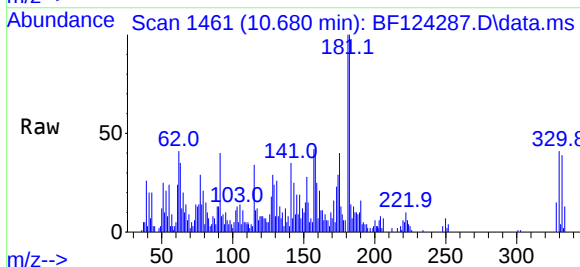
Tgt Ion:330 Resp: 10692

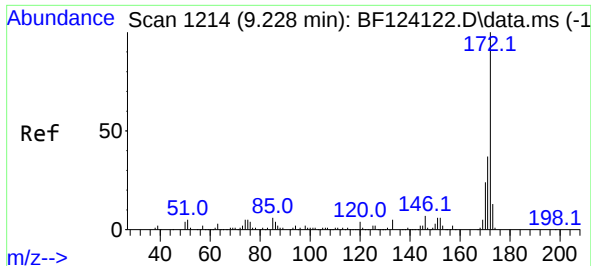
Ion Ratio Lower Upper

330 100

332 80.2 77.1 115.7

141 134.1 27.9 41.9#

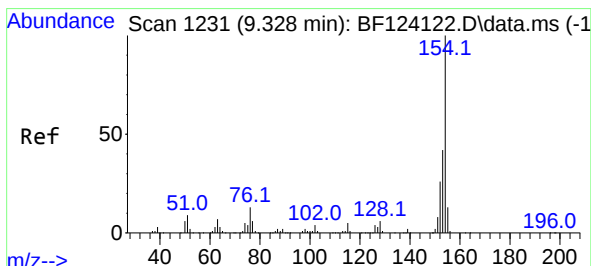
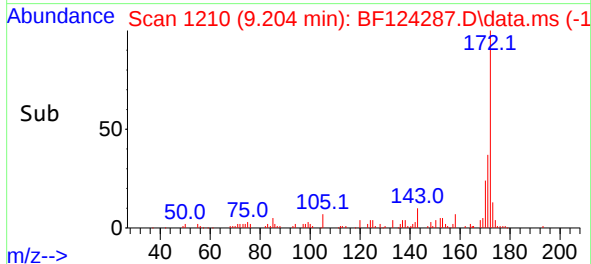
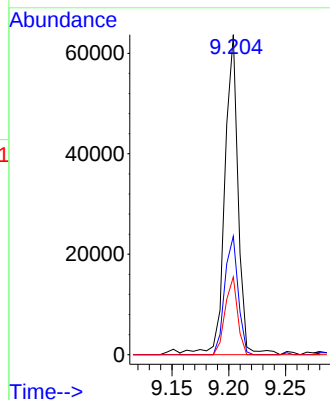
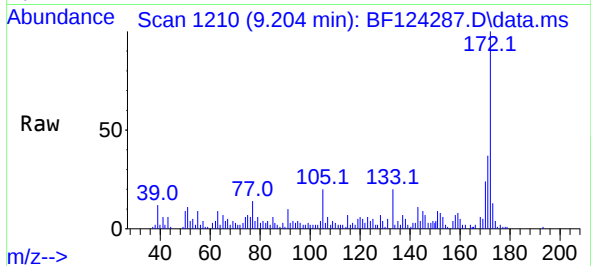




#45  
2-Fluorobiphenyl  
Concen: 9.701 ng  
RT: 9.204 min Scan# 1210  
Delta R.T. -0.006 min  
Lab File: BF124287.D  
Acq: 12 Jun 2021 15:37

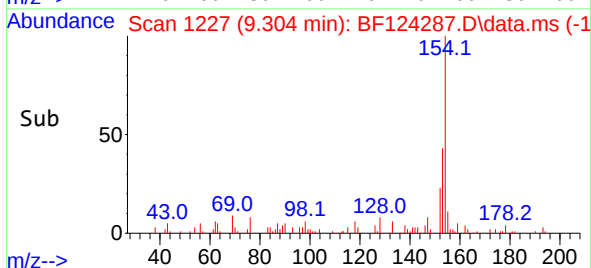
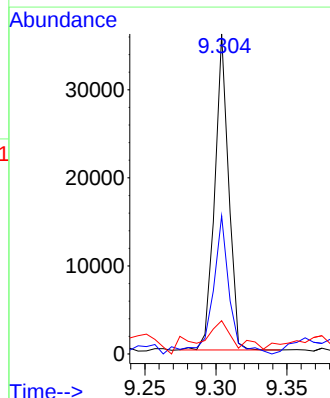
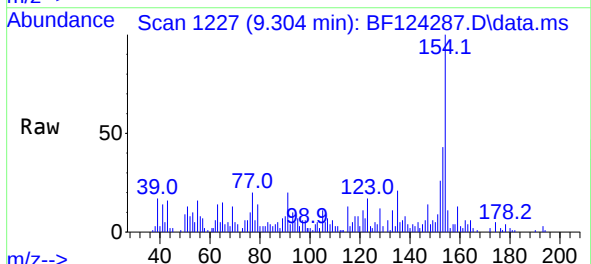
Instrument :  
BNA\_F  
ClientSampleId :  
TMR-DS-01-060921

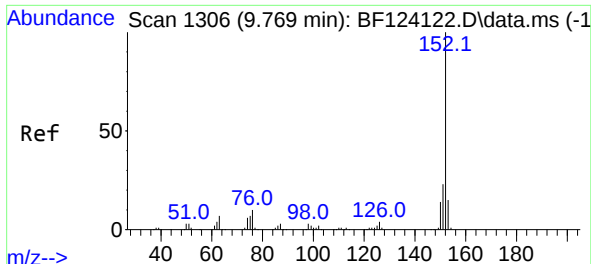
Tgt Ion:172 Resp: 52212  
Ion Ratio Lower Upper  
172 100  
171 37.0 28.1 42.1  
170 24.3 19.2 28.8



#46  
1,1'-Biphenyl  
Concen: 4.261 ng  
RT: 9.304 min Scan# 1227  
Delta R.T. -0.006 min  
Lab File: BF124287.D  
Acq: 12 Jun 2021 15:37

Tgt Ion:154 Resp: 24364  
Ion Ratio Lower Upper  
154 100  
153 43.2 20.7 60.7  
76 10.4 0.0 31.7





#49

Acenaphthylene

Concen: 2.671 ng

RT: 9.745 min Scan# 1302

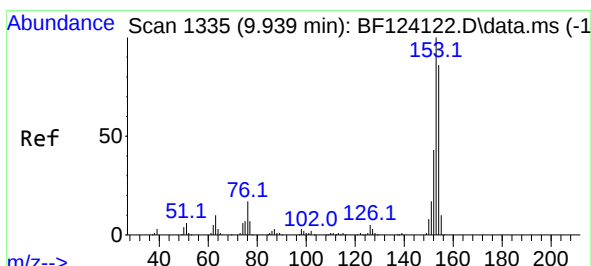
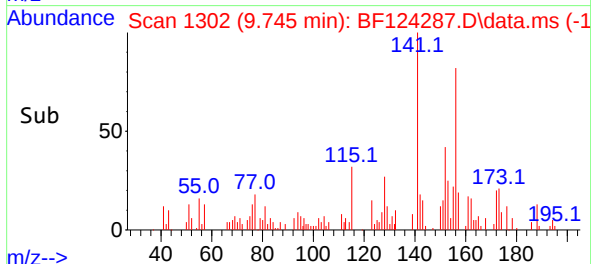
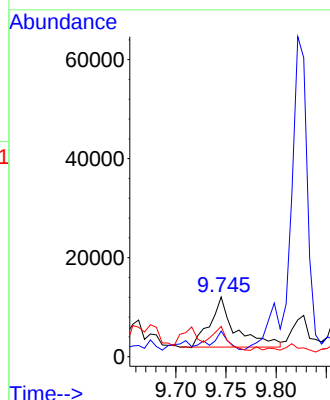
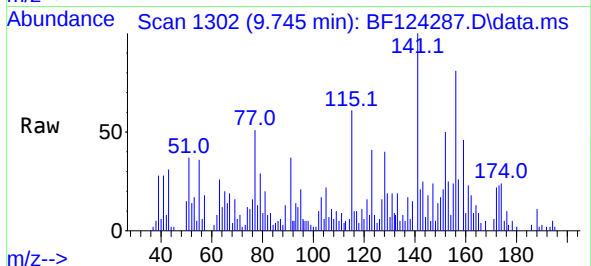
Delta R.T. -0.006 min

Lab File: BF124287.D

Acq: 12 Jun 2021 15:37

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:152 | Resp: | 18069      |
| Ion Ratio   | Lower | Upper      |
| 152         | 100   |            |
| 151         | 42.8  | 16.0 24.0# |
| 153         | 50.6  | 10.4 15.6# |

Instrument :  
BNA\_F  
ClientSampleId :  
TMR-DS-01-060921



#52

Acenaphthene

Concen: 2.154 ng

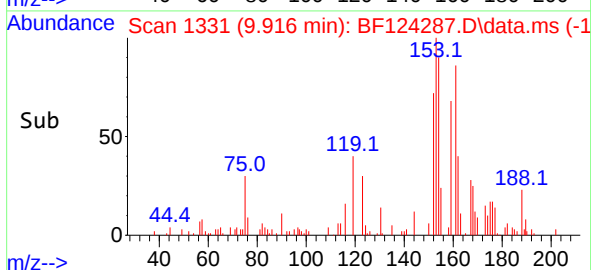
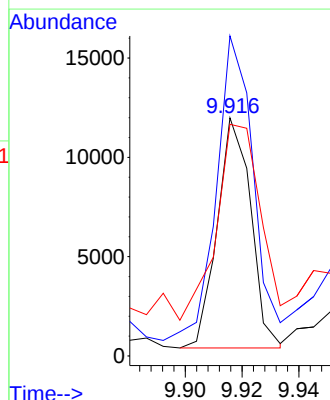
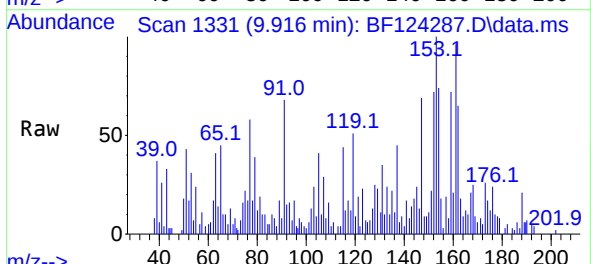
RT: 9.916 min Scan# 1331

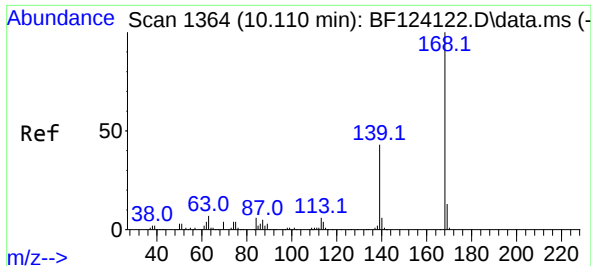
Delta R.T. -0.012 min

Lab File: BF124287.D

Acq: 12 Jun 2021 15:37

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:154 | Resp: | 9518        |
| Ion Ratio   | Lower | Upper       |
| 154         | 100   |             |
| 153         | 134.4 | 88.1 132.1# |
| 152         | 97.3  | 43.4 65.0#  |

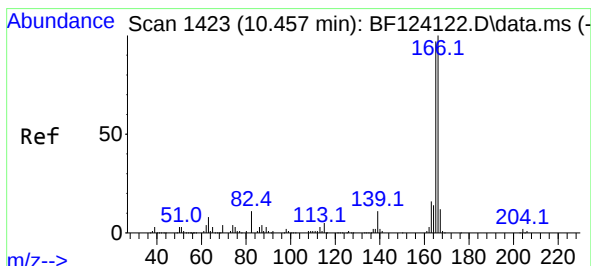
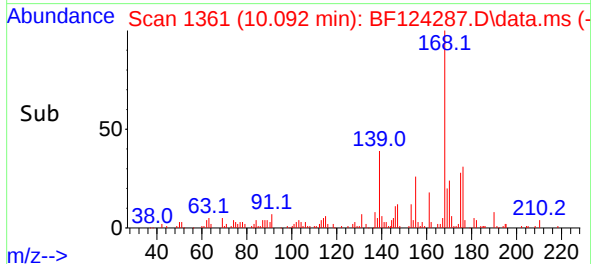
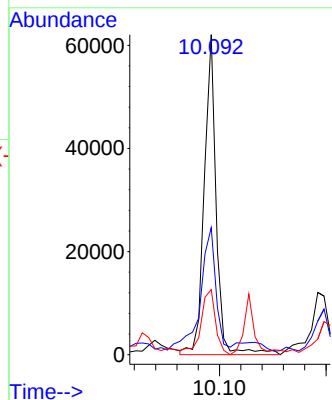
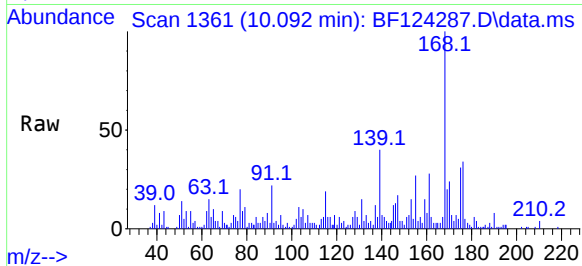




#55  
Dibenzenofuran  
Concen: 7.038 ng  
RT: 10.092 min Scan# 1361  
Delta R.T. -0.006 min  
Lab File: BF124287.D  
Acq: 12 Jun 2021 15:37

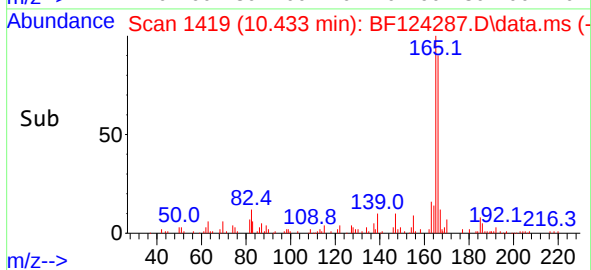
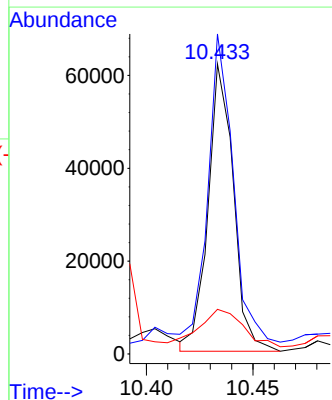
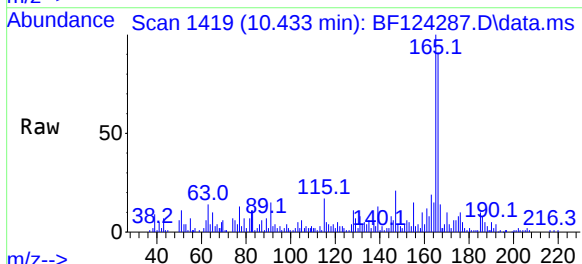
Instrument :  
BNA\_F  
ClientSampleId :  
TMR-DS-01-060921

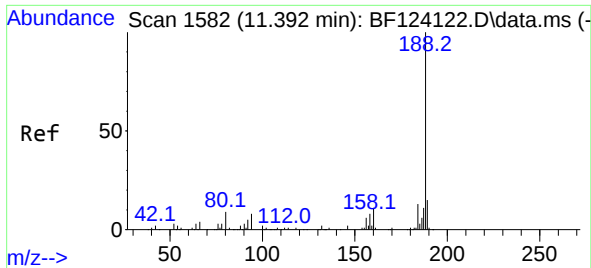
Tgt Ion:168 Resp: 48668  
Ion Ratio Lower Upper  
168 100  
139 39.7 33.2 49.8  
169 20.3 10.8 16.2#



#58  
Fluorene  
Concen: 9.636 ng  
RT: 10.433 min Scan# 1419  
Delta R.T. -0.006 min  
Lab File: BF124287.D  
Acq: 12 Jun 2021 15:37

Tgt Ion:166 Resp: 51145  
Ion Ratio Lower Upper  
166 100  
165 110.4 73.5 110.3#  
167 15.4 10.7 16.1



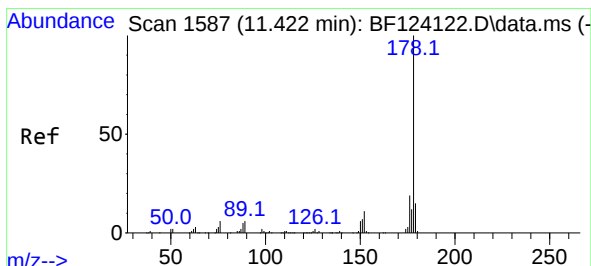
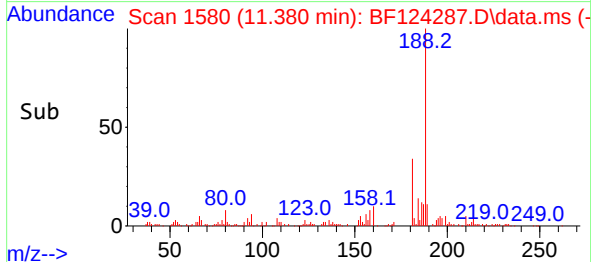
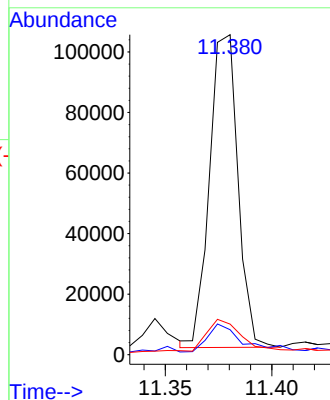
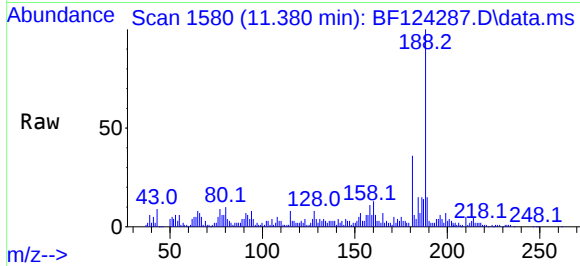


#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.380 min Scan# 1580  
Delta R.T. 0.006 min  
Lab File: BF124287.D  
Acq: 12 Jun 2021 15:37

Instrument :  
BNA\_F  
ClientSampleId :  
TMR-DS-01-060921

Tgt Ion:188 Resp: 95862

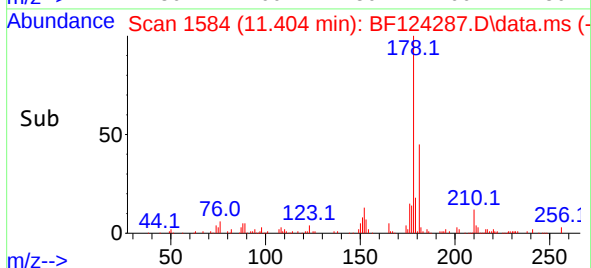
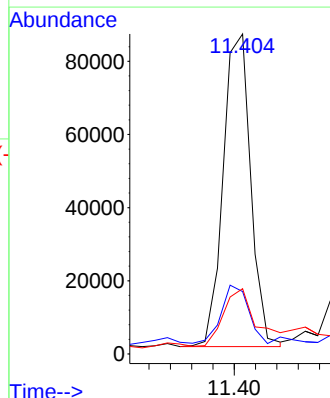
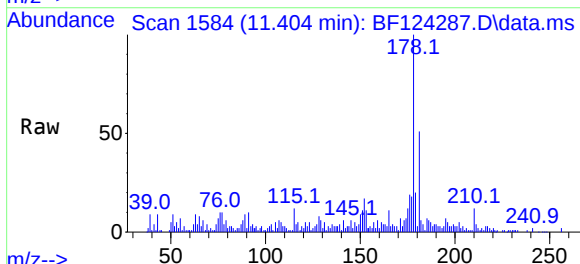
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 188 | 100   |       |       |
| 94  | 7.8   | 6.9   | 10.3  |
| 80  | 9.6   | 8.2   | 12.2  |

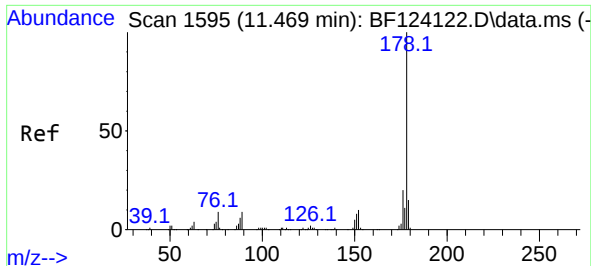


#71  
Phenanthrene  
Concen: 12.819 ng  
RT: 11.404 min Scan# 1584  
Delta R.T. 0.000 min  
Lab File: BF124287.D  
Acq: 12 Jun 2021 15:37

Tgt Ion:178 Resp: 76764

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 176 | 19.5  | 15.6  | 23.4  |
| 179 | 20.4  | 12.5  | 18.7  |

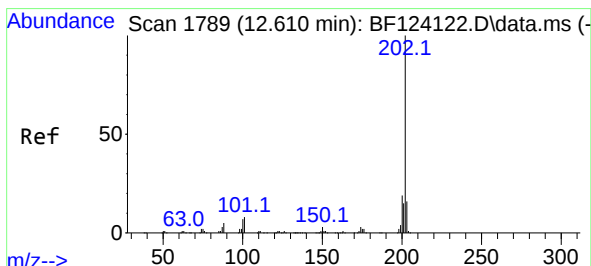
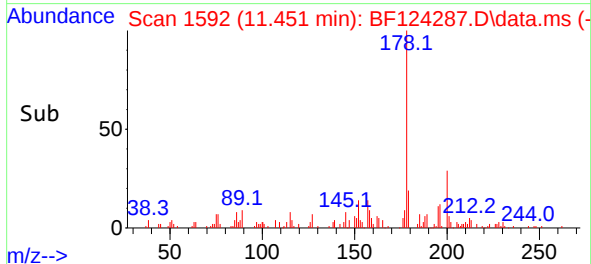
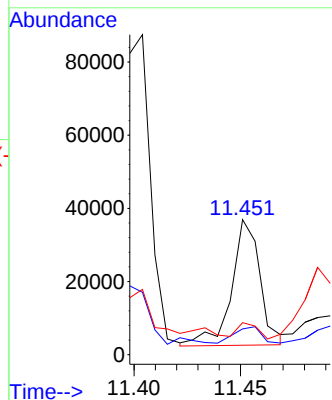
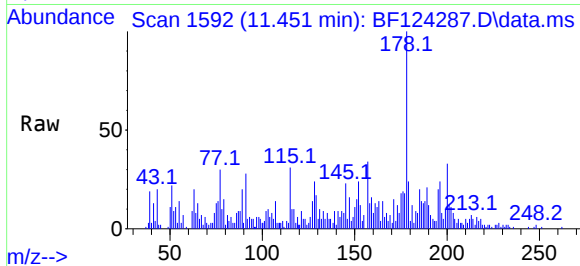




#72  
 Anthracene  
 Concen: 5.319 ng  
 RT: 11.451 min Scan# 1592  
 Delta R.T. -0.006 min  
 Lab File: BF124287.D  
 Acq: 12 Jun 2021 15:37

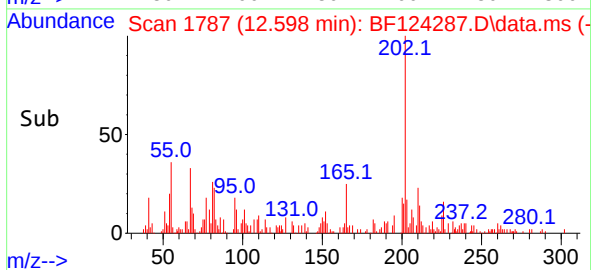
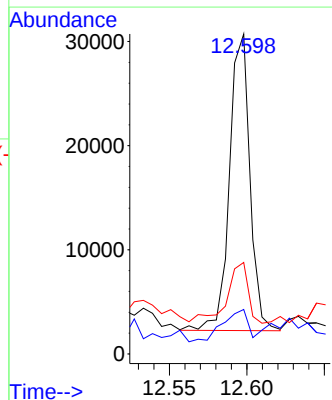
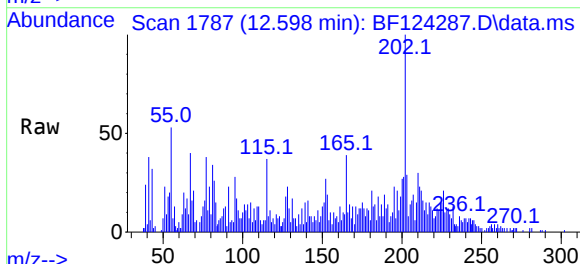
Instrument :  
 BNA\_F  
 ClientSampleId :  
 TMR-DS-01-060921

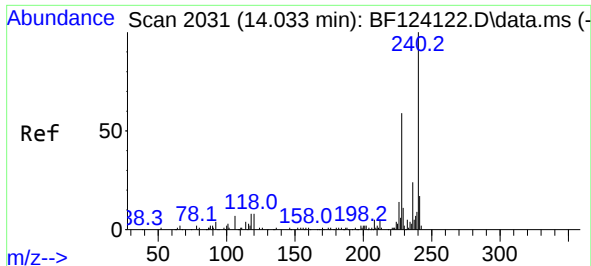
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 32081 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 176       | 19.1  | 15.4  | 23.0  |
| 179       | 23.7  | 12.6  | 18.8# |



#75  
 Fluoranthene  
 Concen: 4.160 ng  
 RT: 12.598 min Scan# 1787  
 Delta R.T. 0.006 min  
 Lab File: BF124287.D  
 Acq: 12 Jun 2021 15:37

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 26150 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 13.9  | 0.0   | 30.9  |
| 203       | 28.6  | 0.0   | 37.5  |



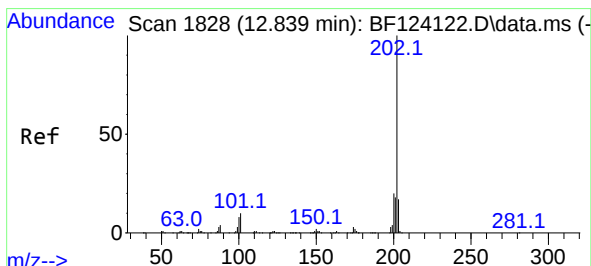
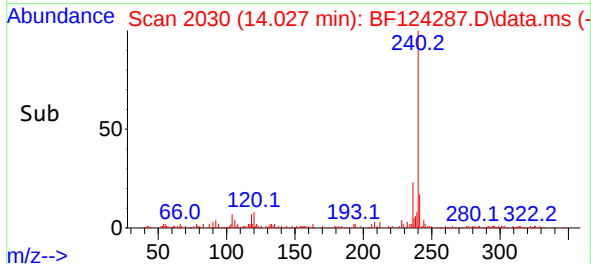
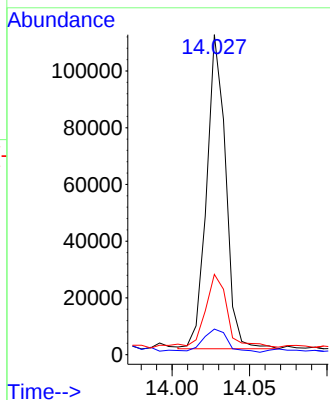
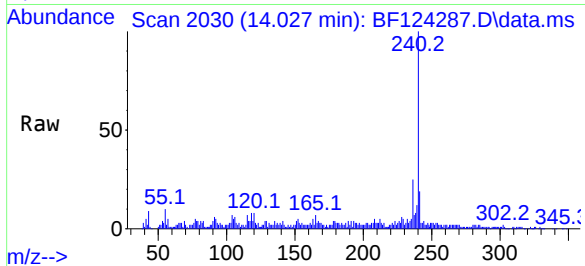


#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.027 min Scan# 2030  
Delta R.T. 0.006 min  
Lab File: BF124287.D  
Acq: 12 Jun 2021 15:37

Instrument :  
BNA\_F  
ClientSampleId :  
TMR-DS-01-060921

Tgt Ion:240 Resp: 94554

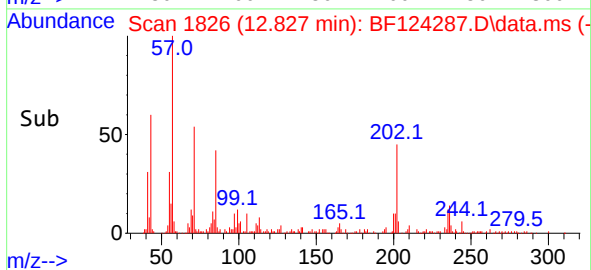
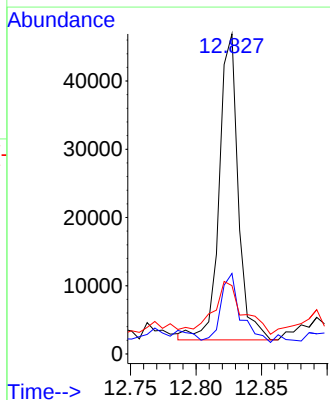
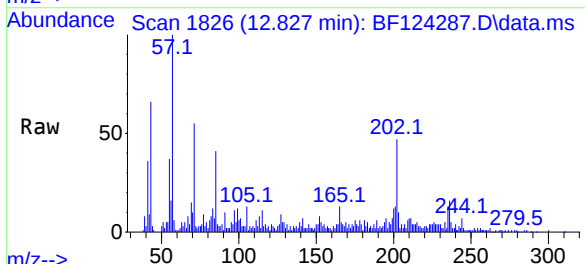
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 240 | 100   |       |       |
| 120 | 8.0   | 7.2   | 10.8  |
| 236 | 25.1  | 19.0  | 28.4  |

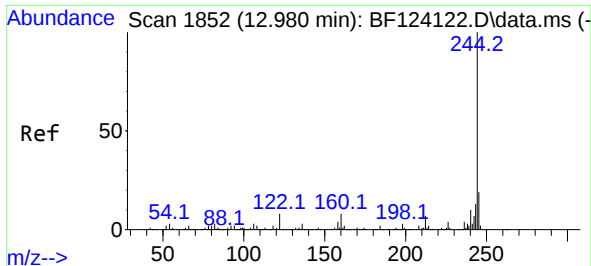


#78  
Pyrene  
Concen: 4.961 ng  
RT: 12.827 min Scan# 1826  
Delta R.T. 0.006 min  
Lab File: BF124287.D  
Acq: 12 Jun 2021 15:37

Tgt Ion:202 Resp: 45040

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 200 | 25.1  | 16.1  | 24.1# |
| 203 | 21.4  | 14.8  | 22.2  |

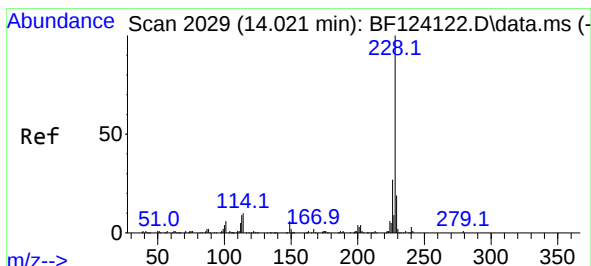
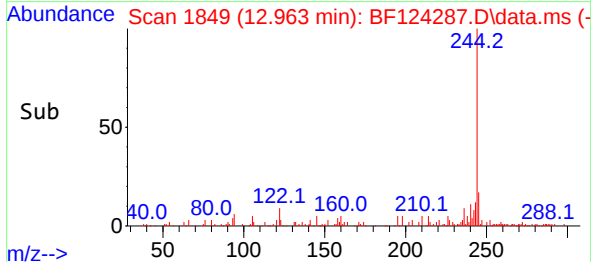
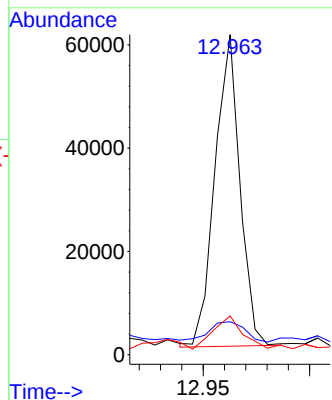
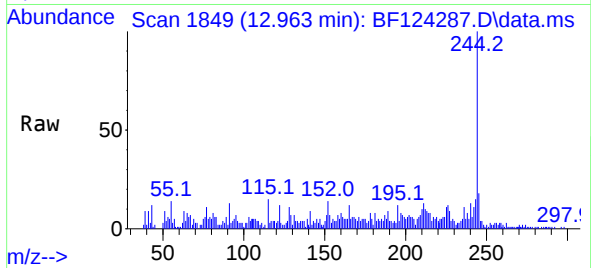




#79  
Terphenyl-d14  
Concen: 7.131 ng  
RT: 12.963 min Scan# 1849  
Delta R.T. 0.000 min  
Lab File: BF124287.D  
Acq: 12 Jun 2021 15:37

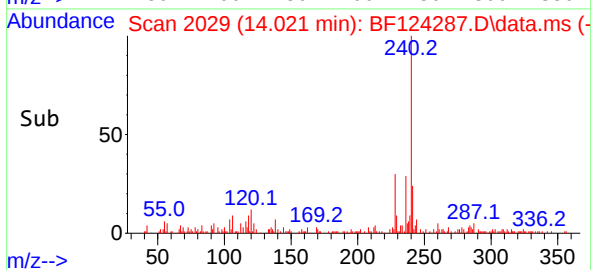
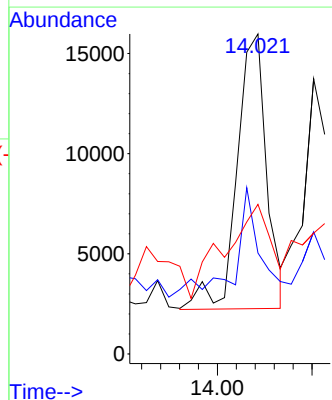
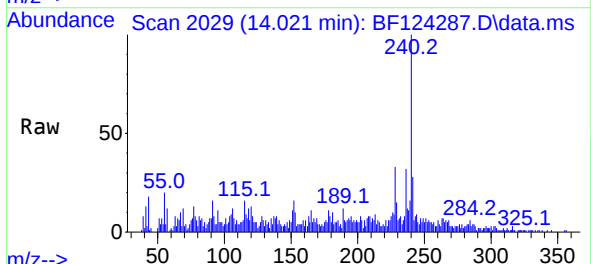
Instrument :  
BNA\_F  
ClientSampleId :  
TMR-DS-01-060921

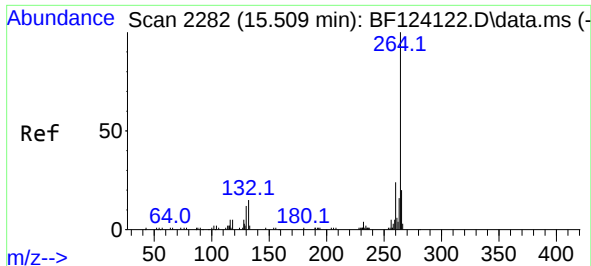
Tgt Ion:244 Resp: 49113  
Ion Ratio Lower Upper  
244 100  
212 10.3 5.7 8.5#  
122 12.1 9.7 14.5



#81  
Benzo(a)anthracene  
Concen: 2.165 ng  
RT: 14.021 min Scan# 2029  
Delta R.T. 0.012 min  
Lab File: BF124287.D  
Acq: 12 Jun 2021 15:37

Tgt Ion:228 Resp: 14914  
Ion Ratio Lower Upper  
228 100  
226 31.6 22.4 33.6  
229 46.8 16.0 24.0#

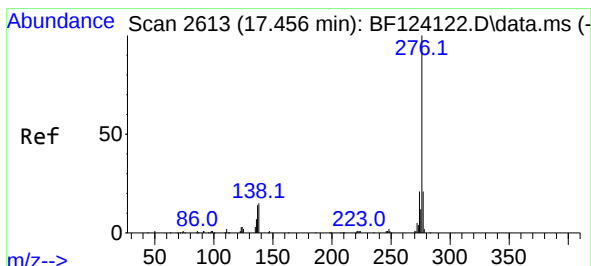
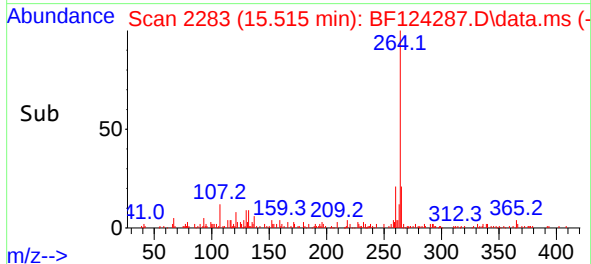
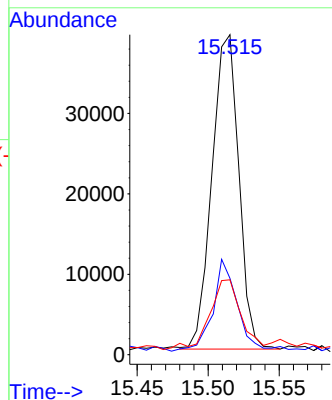
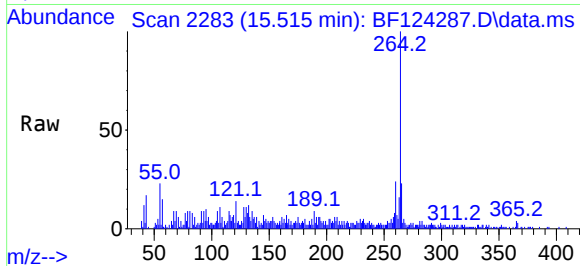




#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.515 min Scan# 2283  
Delta R.T. 0.024 min  
Lab File: BF124287.D  
Acq: 12 Jun 2021 15:37

Instrument :  
BNA\_F  
ClientSampleId :  
TMR-DS-01-060921

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 264   | Resp: | 51459 |
| Ion Ratio | Lower | Upper |       |
| 264       | 100   |       |       |
| 260       | 23.9  | 18.7  | 28.1  |
| 265       | 23.4  | 17.8  | 26.8  |



#92  
Benzo(g,h,i)perylene  
Concen: 4.724 ng  
RT: 17.445 min Scan# 2611  
Delta R.T. 0.012 min  
Lab File: BF124287.D  
Acq: 12 Jun 2021 15:37

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 276   | Resp: | 3593 |
| Ion Ratio | Lower | Upper |      |
| 276       | 100   |       |      |
| 277       | 26.9  | 18.2  | 27.2 |
| 138       | 22.0  | 13.8  | 20.6 |

