

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP093021\  
 Data File : BP007283.D  
 Acq On : 30 Sep 2021 22:00  
 Operator : CG/JU  
 Sample : M3964-15DL 50X  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 CC-15DL

Manual Integrations  
 APPROVED

mohammad  
 10/1/2021 11:29:21 AM

Quant Time: Oct 01 05:04:44 2021  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP092121.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Sep 29 14:45:49 2021  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.869  | 152  | 379224   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.669 | 136  | 1525877  | 20.000 | ng    | # 0.00   |
| 39) Acenaphthene-d10        | 14.504 | 164  | 967880   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.257 | 188  | 1848829  | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12            | 21.345 | 240  | 1417907  | 20.000 | ng    | 0.00     |
| 86) Perylene-d12            | 23.751 | 264  | 1460746  | 20.000 | ng    | -0.01    |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.458  | 112  | 37355    | 1.649  | ng    | 0.00     |
| 7) Phenol-d6                | 7.058  | 99   | 45973    | 1.485  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.034  | 82   | 28777    | 1.098  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 15.998 | 330  | 12397    | 0.988  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.128 | 172  | 76283    | 1.129  | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.810 | 244  | 97480    | 1.317  | ng    | -0.01    |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 31) Naphthalene             | 10.716 | 128  | 233779   | 3.002  | ng    | 99       |
| 52) Acenaphthene            | 14.563 | 154  | 124774   | 2.398  | ng    | 99       |
| 58) Fluorene                | 15.551 | 166  | 200900   | 2.995  | ng    | 98       |
| 71) Phenanthrene            | 17.298 | 178  | 2420565  | 24.417 | ng    | 99       |
| 72) Anthracene              | 17.387 | 178  | 653668   | 6.741  | ng    | 99       |
| 73) Carbazole               | 17.663 | 167  | 315903   | 3.324  | ng    | 98       |
| 75) Fluoranthene            | 19.269 | 202  | 3554384  | 31.121 | ng    | 98       |
| 78) Pyrene                  | 19.616 | 202  | 3048570  | 32.771 | ng    | 98       |
| 81) Benzo(a)anthracene      | 21.327 | 228  | 1443355  | 15.683 | ng    | 98       |
| 83) Chrysene                | 21.380 | 228  | 1249801  | 14.208 | ng    | 96       |
| 87) Indeno(1,2,3-cd)pyrene  | 26.257 | 276  | 737607   | 7.026  | ng    | 99       |
| 88) Benzo(b)fluoranthene    | 23.016 | 252  | 1508588  | 17.281 | ng    | # 96     |
| 89) Benzo(k)fluoranthene    | 23.057 | 252  | 509370m  | 5.763  | ng    |          |
| 90) Benzo(a)pyrene          | 23.639 | 252  | 1190415  | 16.051 | ng    | # 97     |
| 91) Dibenzo(a,h)anthracene  | 26.262 | 278  | 181012   | 2.058  | ng    | # 83     |
| 92) Benzo(g,h,i)perylene    | 27.039 | 276  | 732703   | 8.535  | ng    | # 96     |
| -----                       |        |      |          |        |       |          |

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

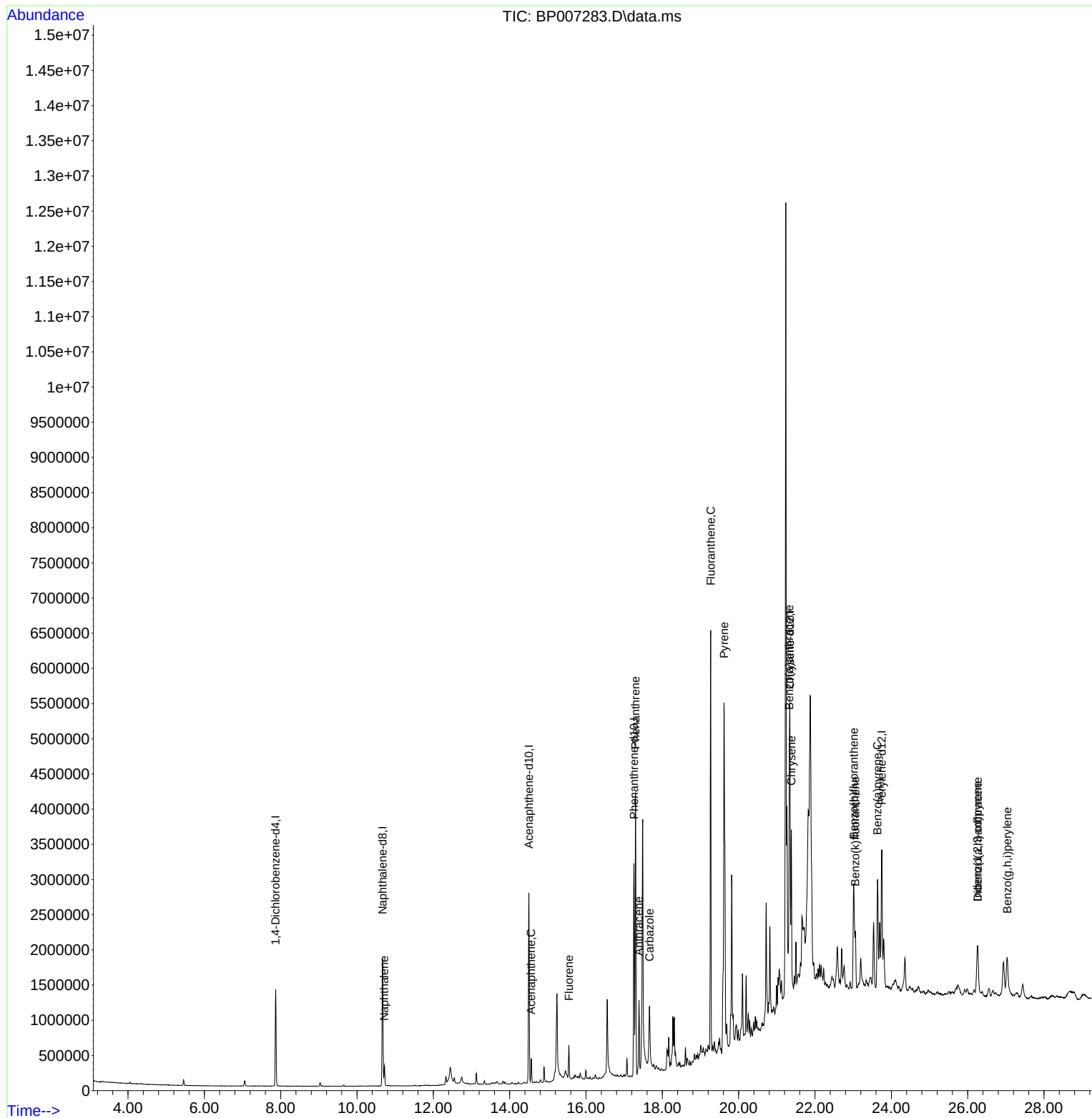
Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP093021\  
Data File : BP007283.D  
Acq On : 30 Sep 2021 22:00  
Operator : CG/JU  
Sample : M3964-15DL 50X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

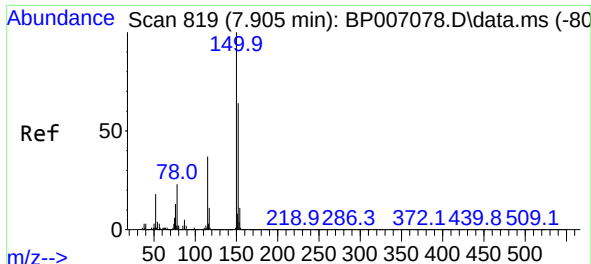
Instrument :  
BNA\_P  
ClientSampleId :  
CC-15DL

Manual Integrations  
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10/1/2021 11:29:21 AM

Quant Time: Oct 01 05:04:44 2021  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP092121.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Sep 29 14:45:49 2021  
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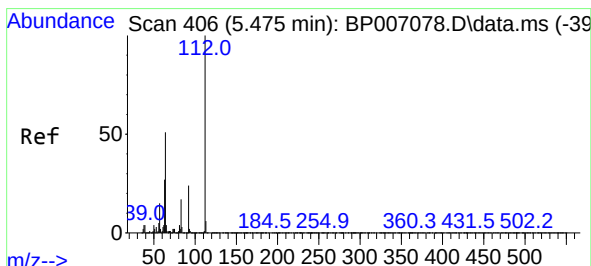
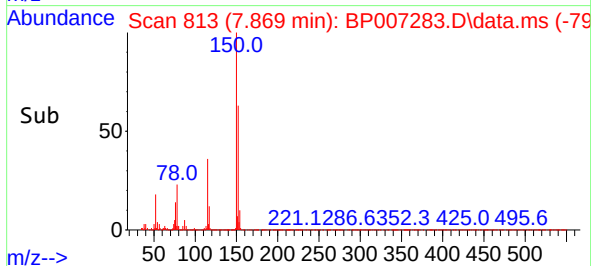
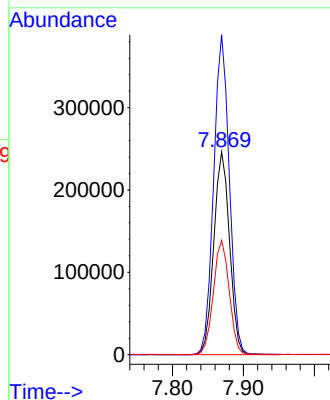
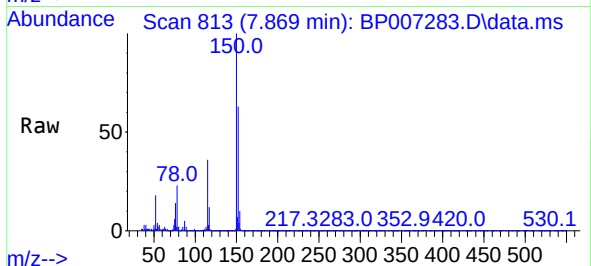
#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.869 min Scan# 813  
Delta R.T. -0.006 min  
Lab File: BP007283.D  
Acq: 30 Sep 2021 22:00

Tgt Ion:152 Resp: 379224  
Ion Ratio Lower Upper  
152 100  
150 157.7 125.6 188.4  
115 56.3 48.5 72.7

Instrument :  
BNA\_P  
ClientSampleId :  
CC-15DL

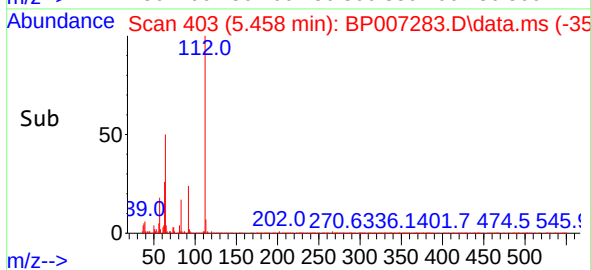
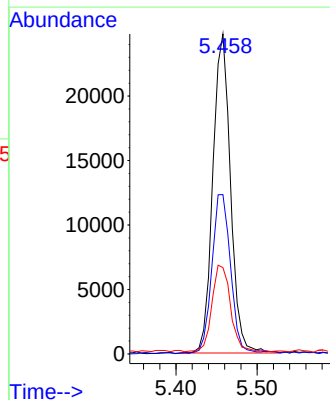
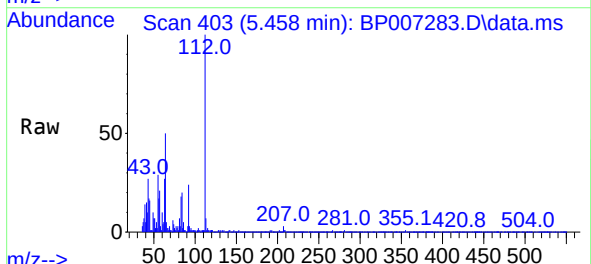
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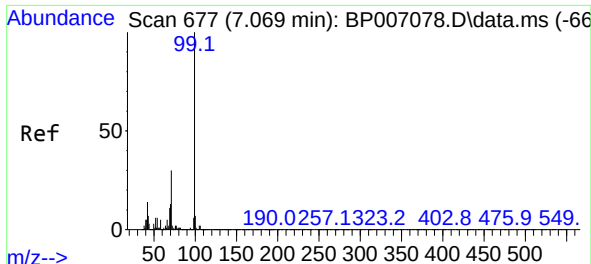
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#5  
2-Fluorophenol  
Concen: 1.649 ng  
RT: 5.458 min Scan# 403  
Delta R.T. 0.006 min  
Lab File: BP007283.D  
Acq: 30 Sep 2021 22:00

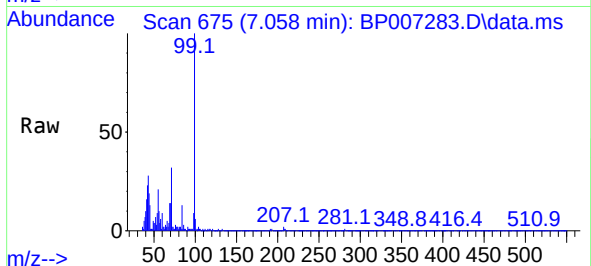
Tgt Ion:112 Resp: 37355  
Ion Ratio Lower Upper  
112 100  
64 49.8 41.4 62.2  
63 27.0 23.8 35.8





#7  
Phenol-d6  
Concen: 1.485 ng  
RT: 7.058 min Scan# 675  
Delta R.T. 0.006 min  
Lab File: BP007283.D  
Acq: 30 Sep 2021 22:00

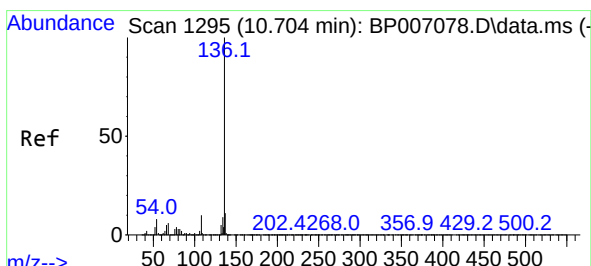
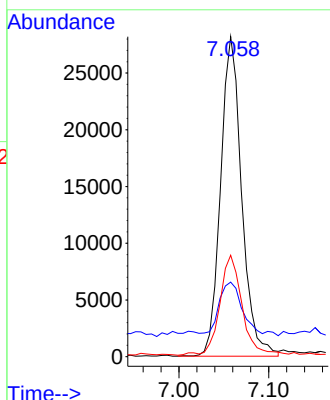
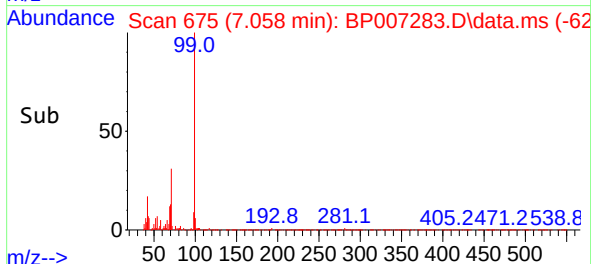
Instrument :  
BNA\_P  
ClientSampled :  
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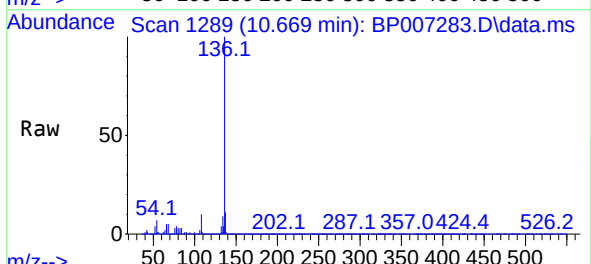
Tgt Ion: 99 Resp: 45973  
Ion Ratio Lower Upper  
99 100  
42 23.3 13.4 20.0#  
71 31.7 30.6 46.0

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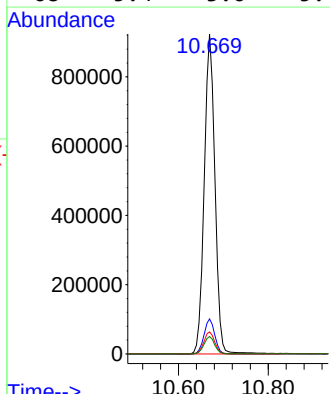
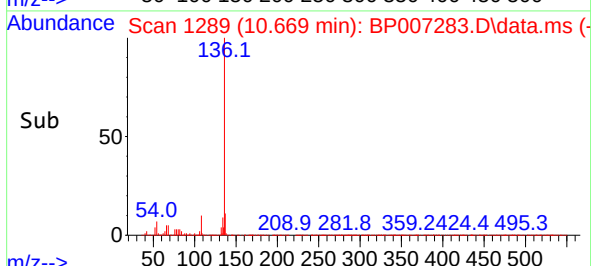
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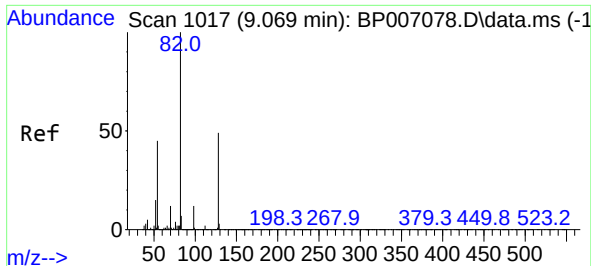


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.669 min Scan# 1289  
Delta R.T. -0.006 min  
Lab File: BP007283.D  
Acq: 30 Sep 2021 22:00



Tgt Ion: 136 Resp: 1525877  
Ion Ratio Lower Upper  
136 100  
137 10.9 8.6 12.8  
54 6.9 4.6 6.8#  
68 5.4 3.6 5.4#





#23  
Nitrobenzene-d5  
Concen: 1.098 ng  
RT: 9.034 min Scan# 1011  
Delta R.T. -0.006 min  
Lab File: BP007283.D  
Acq: 30 Sep 2021 22:00

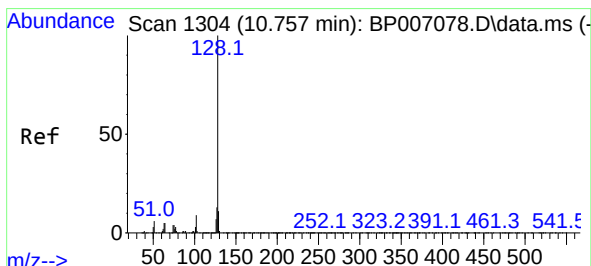
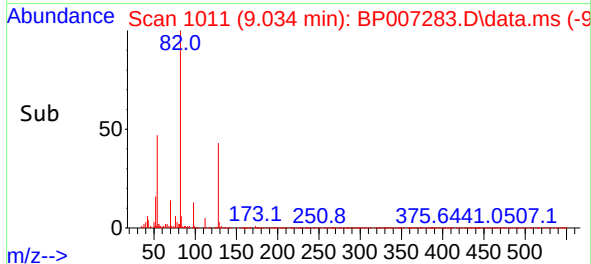
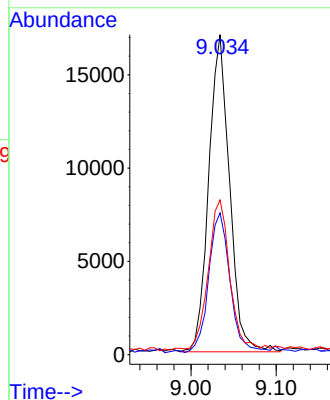
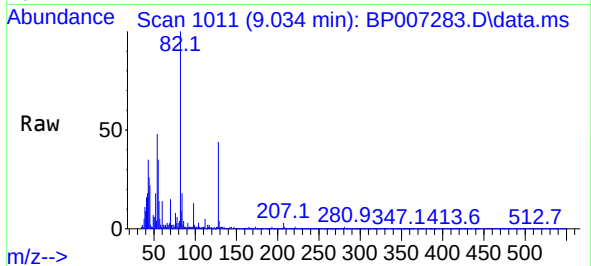
Tgt Ion: 82 Resp: 28777

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 44.3  | 35.7  | 53.5  |
| 54  | 48.3  | 35.0  | 52.4  |

Instrument :  
BNA\_P  
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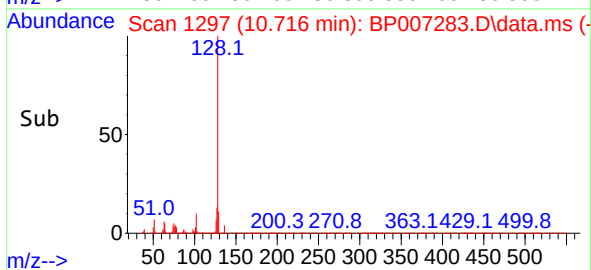
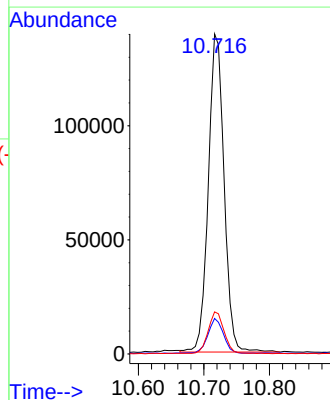
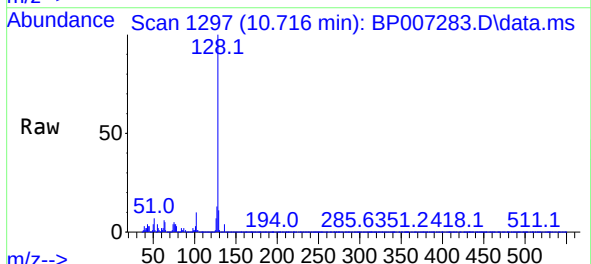
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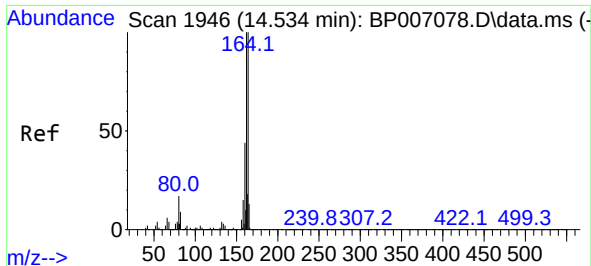


#31  
Naphthalene  
Concen: 3.002 ng  
RT: 10.716 min Scan# 1297  
Delta R.T. -0.012 min  
Lab File: BP007283.D  
Acq: 30 Sep 2021 22:00

Tgt Ion: 128 Resp: 233779

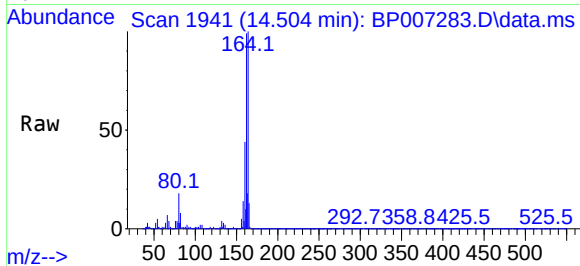
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 129 | 11.1  | 9.0   | 13.6  |
| 127 | 13.1  | 10.7  | 16.1  |





#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.504 min Scan# 1941  
Delta R.T. -0.006 min  
Lab File: BP007283.D  
Acq: 30 Sep 2021 22:00

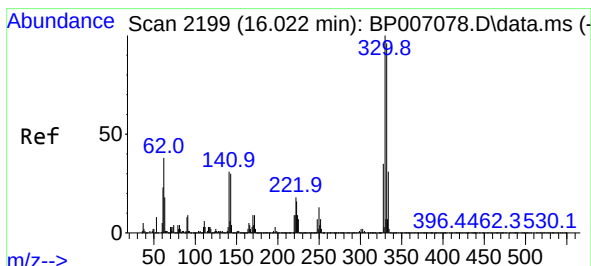
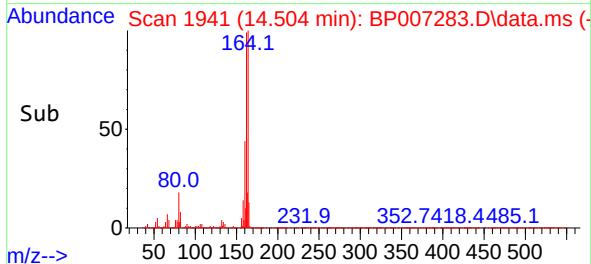
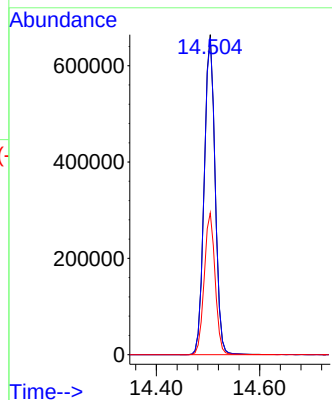
Instrument :  
BNA\_P  
ClientSampled :  
CC-15DL



Tgt Ion:164 Resp: 967880  
Ion Ratio Lower Upper  
164 100  
162 99.0 80.2 120.2  
160 44.3 34.5 51.7

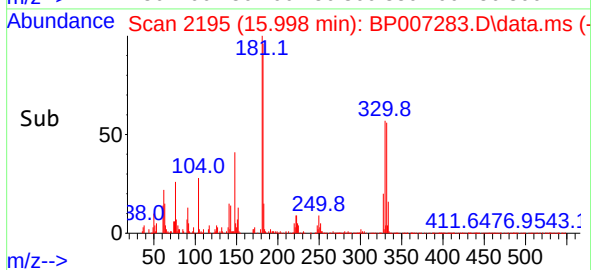
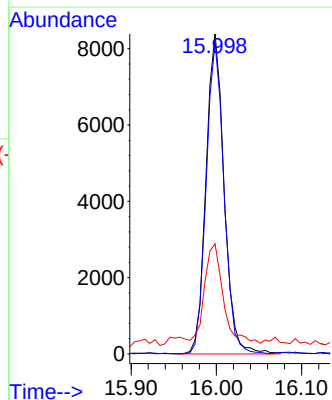
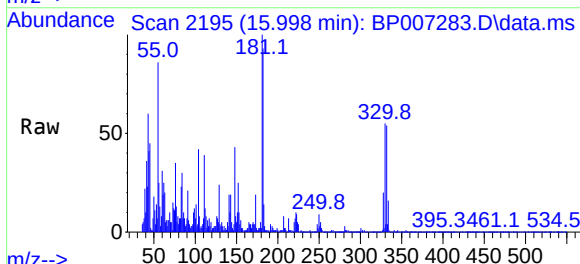
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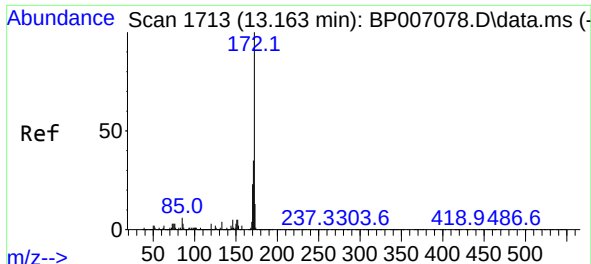
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#42  
2,4,6-Tribromophenol  
Concen: 0.988 ng  
RT: 15.998 min Scan# 2195  
Delta R.T. -0.006 min  
Lab File: BP007283.D  
Acq: 30 Sep 2021 22:00

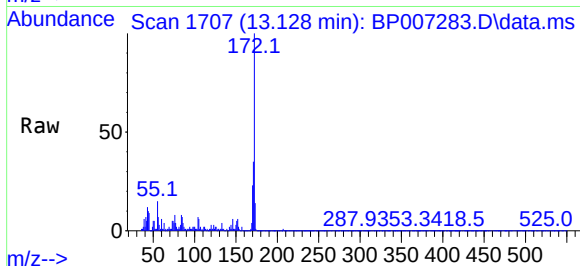
Tgt Ion:330 Resp: 12397  
Ion Ratio Lower Upper  
330 100  
332 95.5 77.8 116.8  
141 33.3 25.4 38.2





#45  
2-Fluorobiphenyl  
Concen: 1.129 ng  
RT: 13.128 min Scan# 1707  
Delta R.T. -0.006 min  
Lab File: BP007283.D  
Acq: 30 Sep 2021 22:00

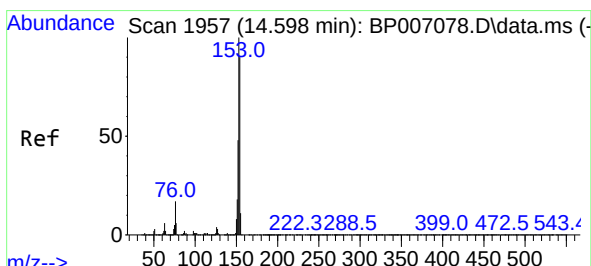
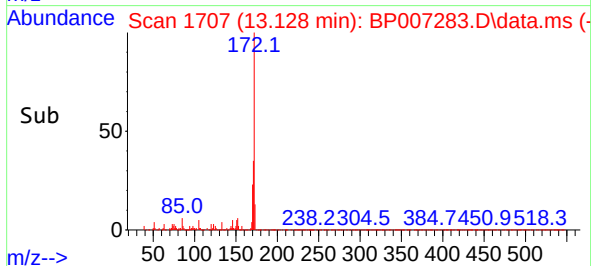
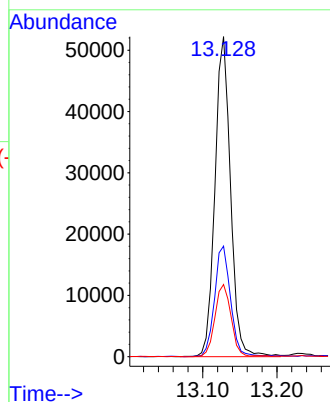
Instrument :  
BNA\_P  
ClientSampleId :  
CC-15DL



Tgt Ion:172 Resp: 76283  
Ion Ratio Lower Upper  
172 100  
171 34.5 27.9 41.9  
170 22.6 18.6 27.8

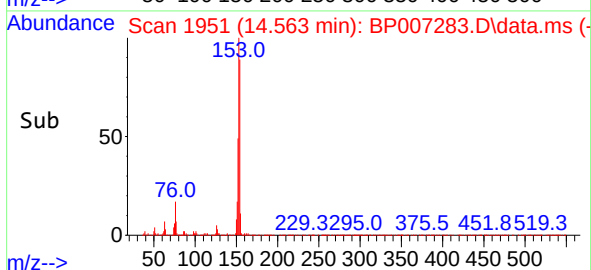
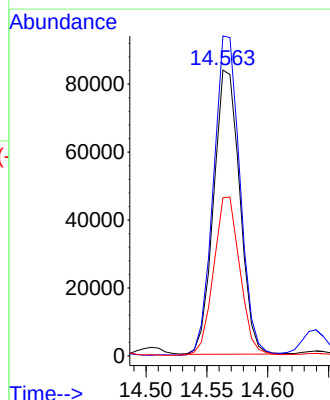
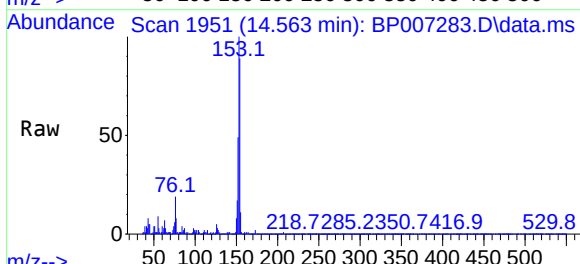
Manual Integrations  
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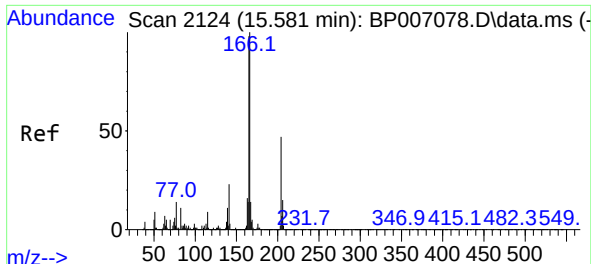
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10/1/2021 11:29:21 AM



#52  
Acenaphthene  
Concen: 2.398 ng  
RT: 14.563 min Scan# 1951  
Delta R.T. -0.012 min  
Lab File: BP007283.D  
Acq: 30 Sep 2021 22:00

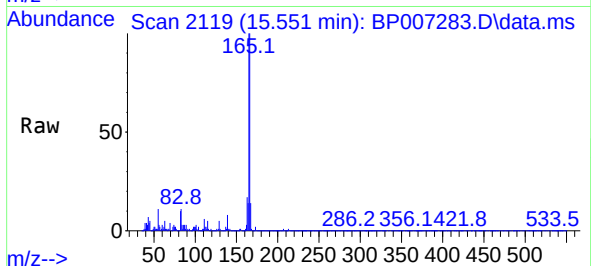
Tgt Ion:154 Resp: 124774  
Ion Ratio Lower Upper  
154 100  
153 111.9 89.4 134.2  
152 55.4 43.0 64.4





#58  
Fluorene  
Concen: 2.995 ng  
RT: 15.551 min Scan# 2119  
Delta R.T. -0.012 min  
Lab File: BP007283.D  
Acq: 30 Sep 2021 22:00

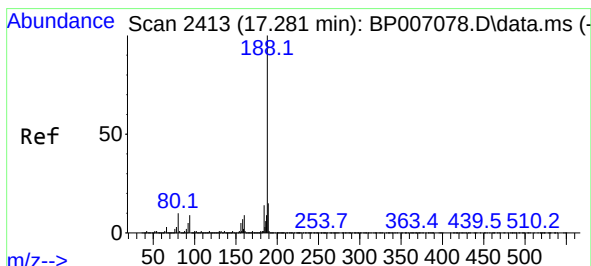
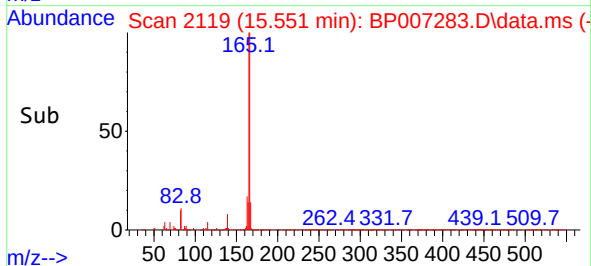
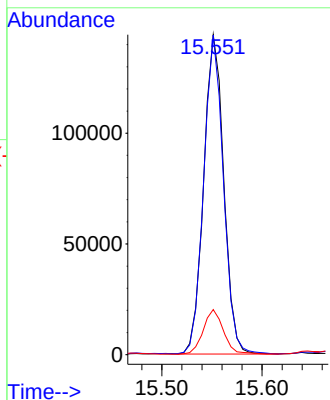
Instrument :  
BNA\_P  
ClientSampleId :  
CC-15DL



Tgt Ion:166 Resp: 200900  
Ion Ratio Lower Upper  
166 100  
165 99.8 78.0 117.0  
167 14.1 10.5 15.7

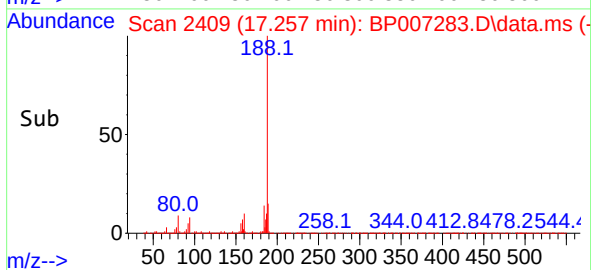
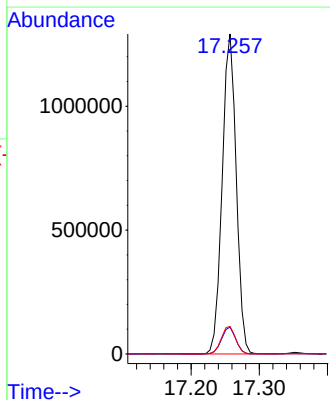
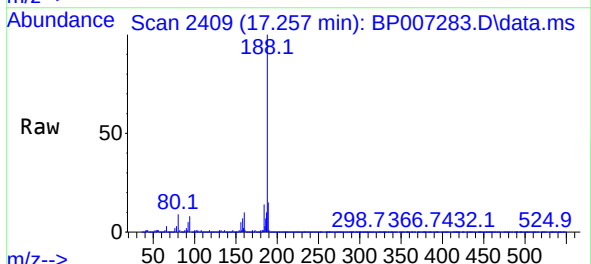
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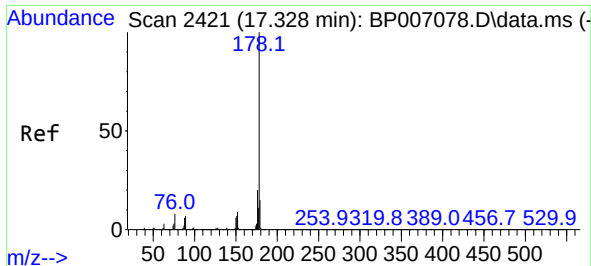


#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.257 min Scan# 2409  
Delta R.T. -0.006 min  
Lab File: BP007283.D  
Acq: 30 Sep 2021 22:00

Tgt Ion:188 Resp: 1848829  
Ion Ratio Lower Upper  
188 100  
94 8.4 5.6 8.4  
80 8.6 6.3 9.5

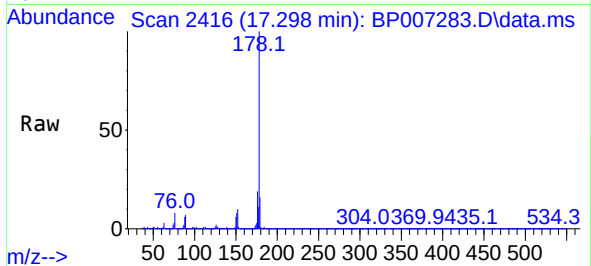






#71  
Phenanthrene  
Concen: 24.417 ng  
RT: 17.298 min Scan# 2416  
Delta R.T. -0.006 min  
Lab File: BP007283.D  
Acq: 30 Sep 2021 22:00

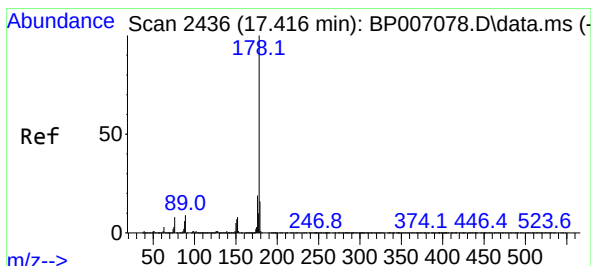
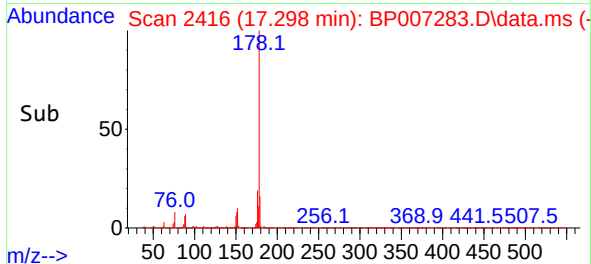
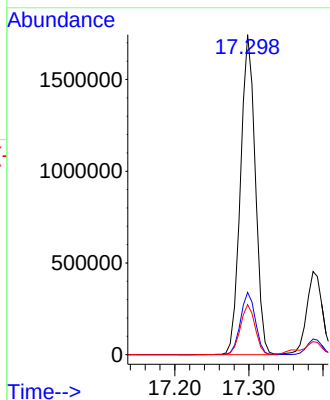
Instrument :  
BNA\_P  
ClientSampled :  
CC-15DL



Tgt Ion:178 Resp: 2420565  
Ion Ratio Lower Upper  
178 100  
176 19.4 15.1 22.7  
179 15.7 12.4 18.6

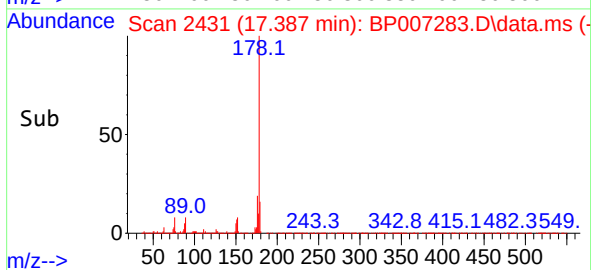
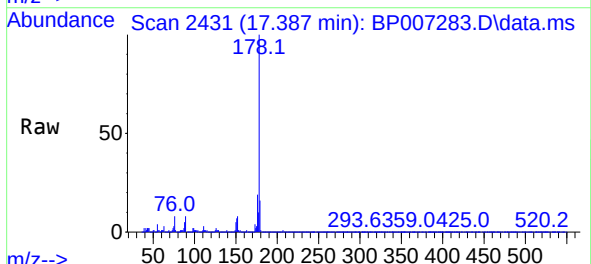
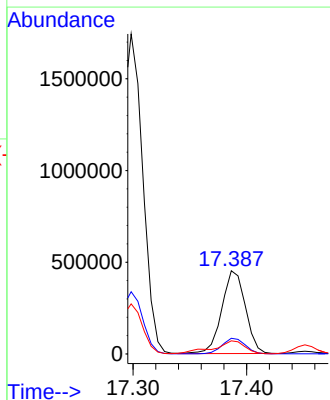
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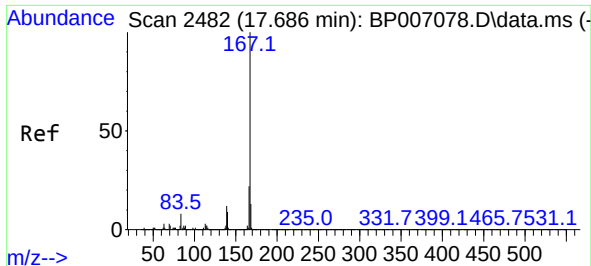
mohammad  
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#72  
Anthracene  
Concen: 6.741 ng  
RT: 17.387 min Scan# 2431  
Delta R.T. -0.012 min  
Lab File: BP007283.D  
Acq: 30 Sep 2021 22:00

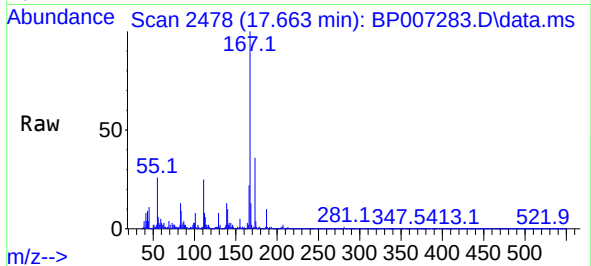
Tgt Ion:178 Resp: 653668  
Ion Ratio Lower Upper  
178 100  
176 18.9 14.9 22.3  
179 15.8 12.2 18.2





#73  
 Carbazole  
 Concen: 3.324 ng  
 RT: 17.663 min Scan# 2478  
 Delta R.T. -0.006 min  
 Lab File: BP007283.D  
 Acq: 30 Sep 2021 22:00

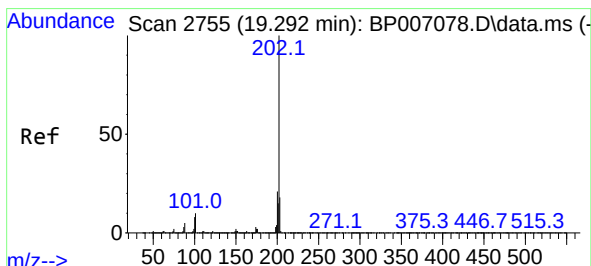
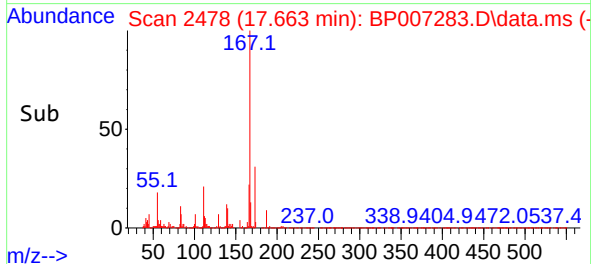
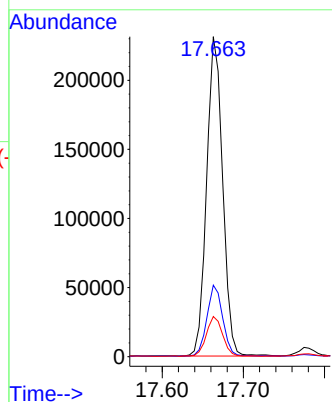
Instrument :  
 BNA\_P  
 ClientSampled :  
 CC-15DL



Tgt Ion:167 Resp: 315903  
 Ion Ratio Lower Upper  
 167 100  
 166 22.4 17.1 25.7  
 139 12.6 10.7 16.1

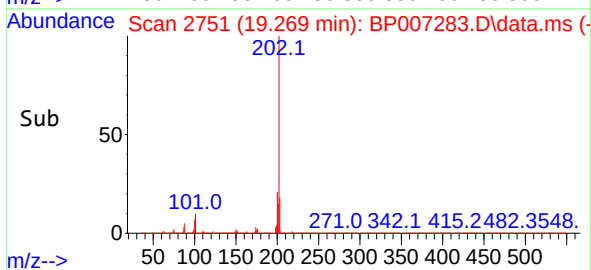
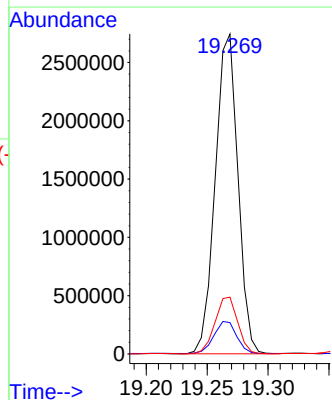
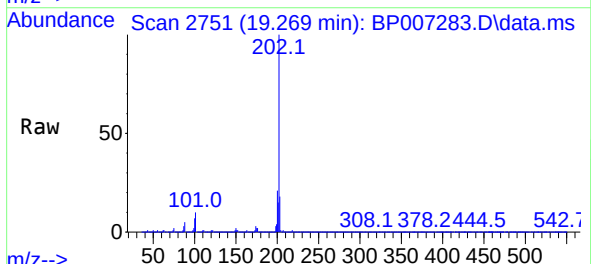
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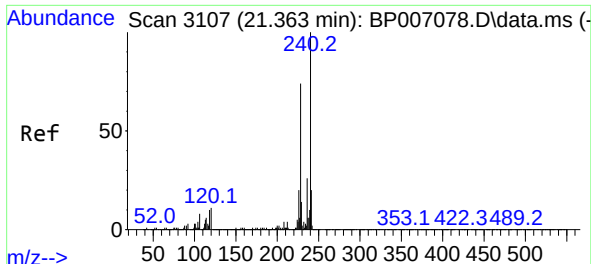
mohammad  
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#75  
 Fluoranthene  
 Concen: 31.121 ng  
 RT: 19.269 min Scan# 2751  
 Delta R.T. -0.006 min  
 Lab File: BP007283.D  
 Acq: 30 Sep 2021 22:00

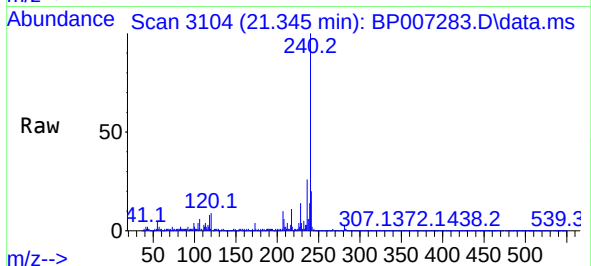
Tgt Ion:202 Resp: 3554384  
 Ion Ratio Lower Upper  
 202 100  
 101 9.8 0.0 27.6  
 203 17.8 0.0 37.8





#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.345 min Scan# 3104  
Delta R.T. -0.006 min  
Lab File: BP007283.D  
Acq: 30 Sep 2021 22:00

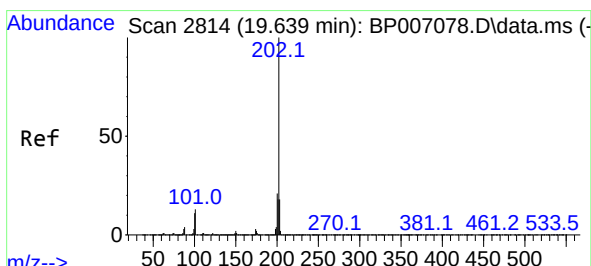
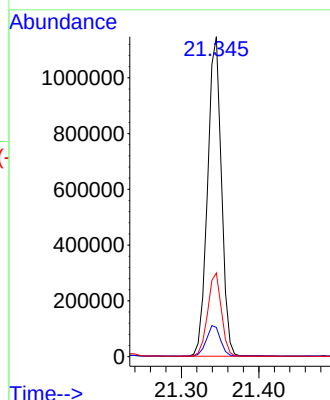
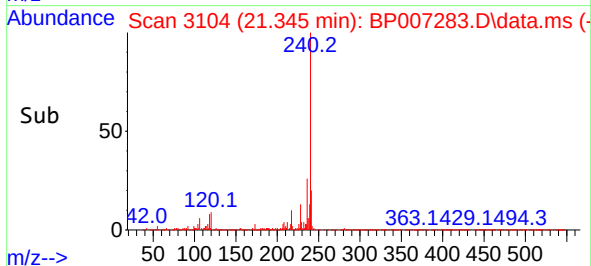
Instrument :  
BNA\_P  
ClientSampleId :  
CC-15DL



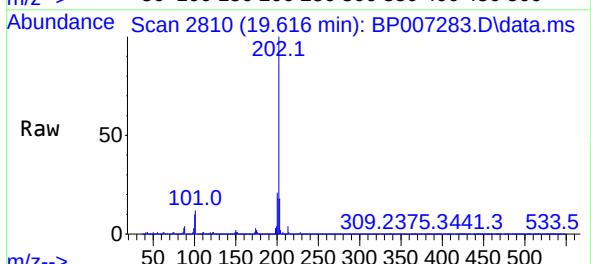
Tgt Ion:240 Resp: 1417907  
Ion Ratio Lower Upper  
240 100  
120 9.2 6.5 9.7  
236 26.2 20.6 31.0

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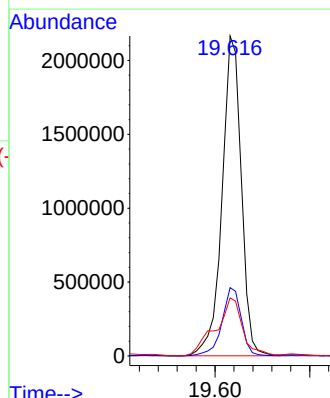
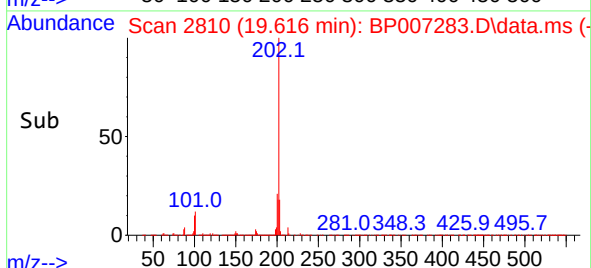
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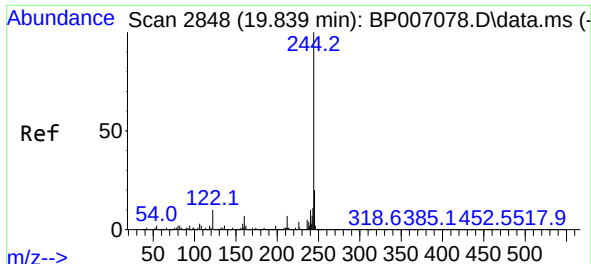


#78  
Pyrene  
Concen: 32.771 ng  
RT: 19.616 min Scan# 2810  
Delta R.T. -0.012 min  
Lab File: BP007283.D  
Acq: 30 Sep 2021 22:00



Tgt Ion:202 Resp: 3048570  
Ion Ratio Lower Upper  
202 100  
200 21.3 16.3 24.5  
203 18.1 14.2 21.2





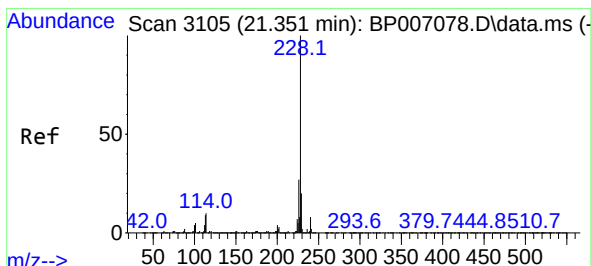
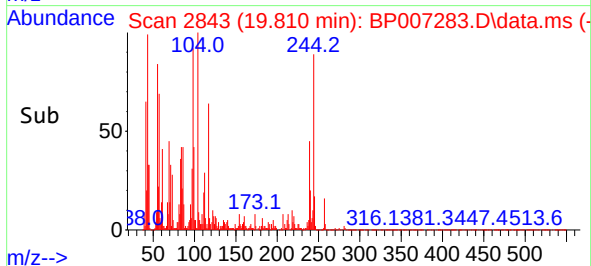
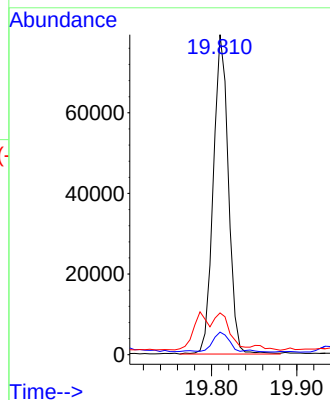
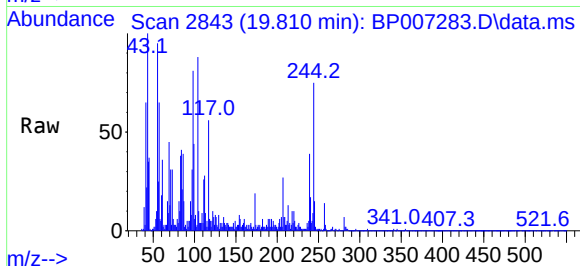
#79  
Terphenyl-d14  
Concen: 1.317 ng  
RT: 19.810 min Scan# 2843  
Delta R.T. -0.012 min  
Lab File: BP007283.D  
Acq: 30 Sep 2021 22:00

Tgt Ion: 244 Resp: 97480  
Ion Ratio Lower Upper  
244 100  
212 7.1 6.0 9.0  
122 13.1 7.1 10.7#

Instrument :  
BNA\_P  
ClientSampleId :  
CC-15DL

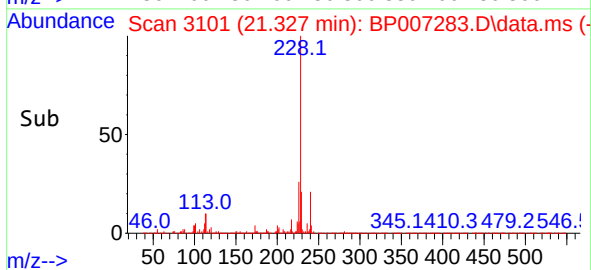
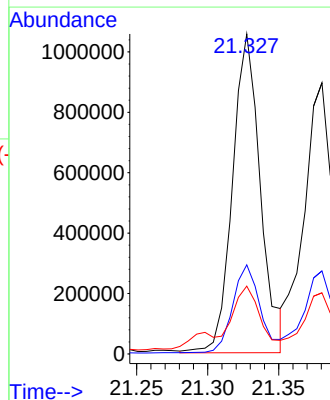
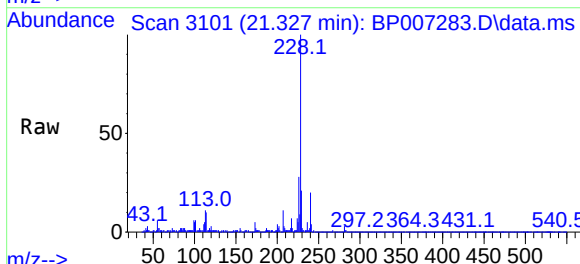
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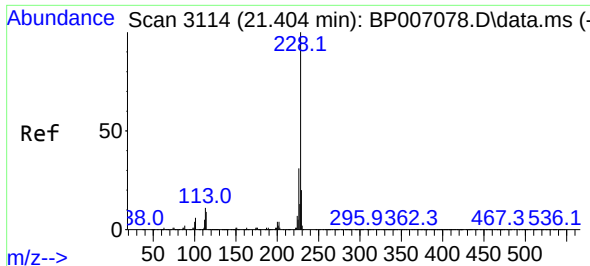
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#81  
Benzo(a)anthracene  
Concen: 15.683 ng  
RT: 21.327 min Scan# 3101  
Delta R.T. -0.012 min  
Lab File: BP007283.D  
Acq: 30 Sep 2021 22:00

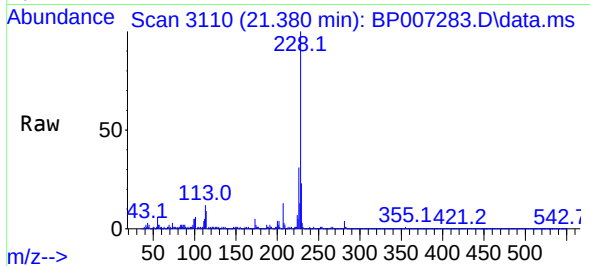
Tgt Ion: 228 Resp: 1443355  
Ion Ratio Lower Upper  
228 100  
226 27.8 21.6 32.4  
229 21.2 15.8 23.6





#83  
Chrysene  
Concen: 14.208 ng  
RT: 21.380 min Scan# 3110  
Delta R.T. -0.012 min  
Lab File: BP007283.D  
Acq: 30 Sep 2021 22:00

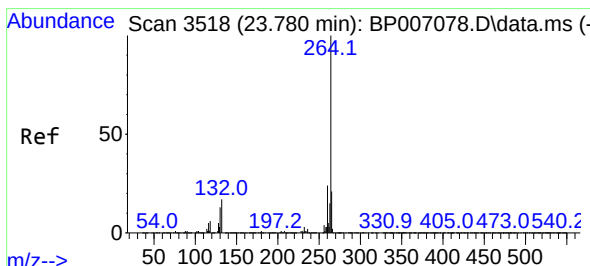
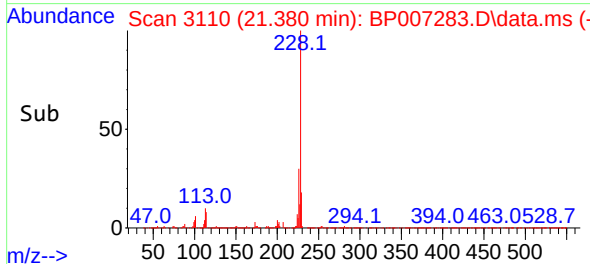
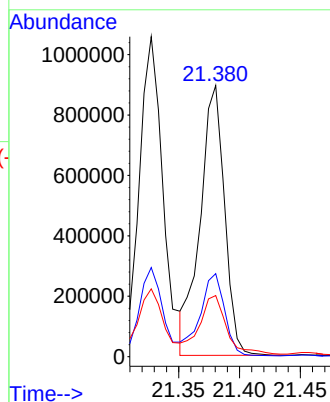
Instrument :  
BNA\_P  
ClientSampled :  
CC-15DL



Tgt Ion:228 Resp: 1249801  
Ion Ratio Lower Upper  
228 100  
226 30.6 23.8 35.6  
229 22.6 15.4 23.2

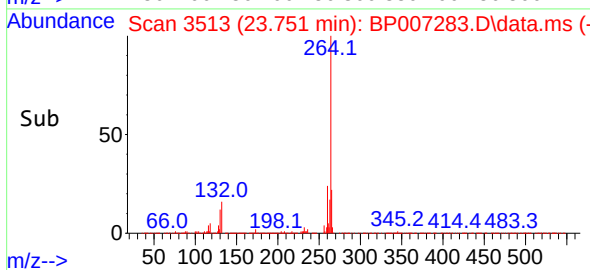
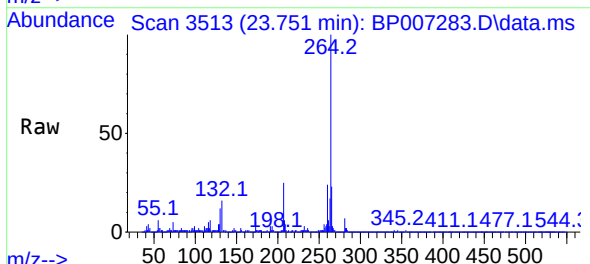
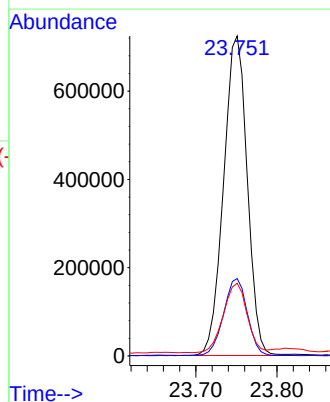
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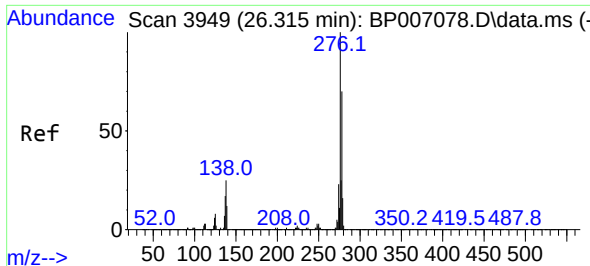
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#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 23.751 min Scan# 3513  
Delta R.T. -0.012 min  
Lab File: BP007283.D  
Acq: 30 Sep 2021 22:00

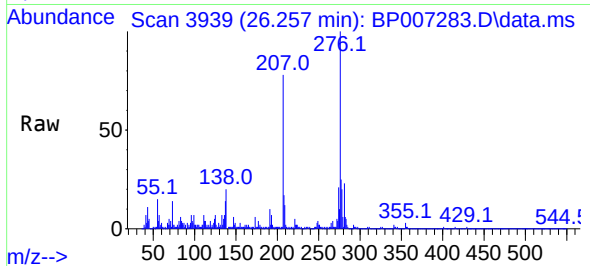
Tgt Ion:264 Resp: 1460746  
Ion Ratio Lower Upper  
264 100  
260 24.2 18.6 28.0  
265 22.7 17.6 26.4





#87  
Indeno(1,2,3-cd)pyrene  
Concen: 7.026 ng  
RT: 26.257 min Scan# 3939  
Delta R.T. -0.041 min  
Lab File: BP007283.D  
Acq: 30 Sep 2021 22:00

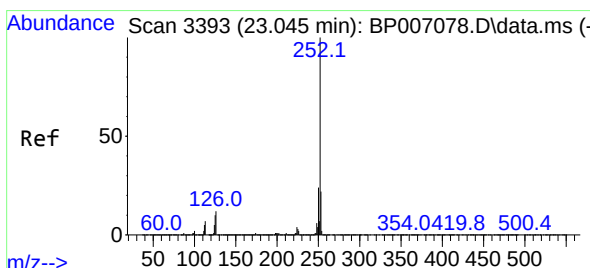
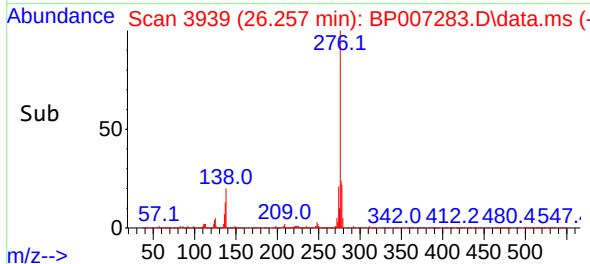
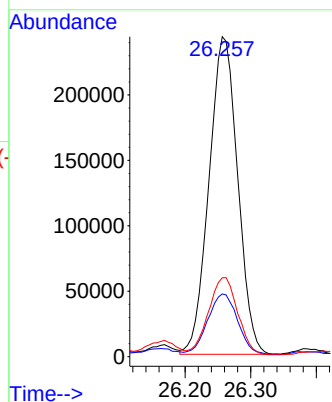
Instrument :  
BNA\_P  
ClientSampled :  
CC-15DL



Tgt Ion:276 Resp: 737607  
Ion Ratio Lower Upper  
276 100  
138 19.7 15.3 22.9  
277 24.8 20.4 30.6

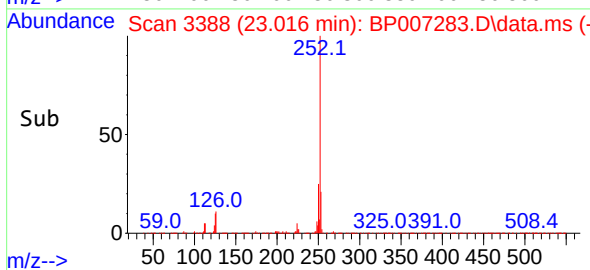
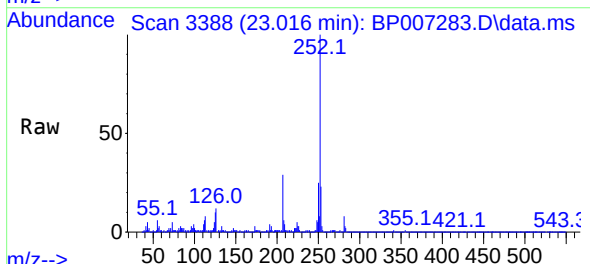
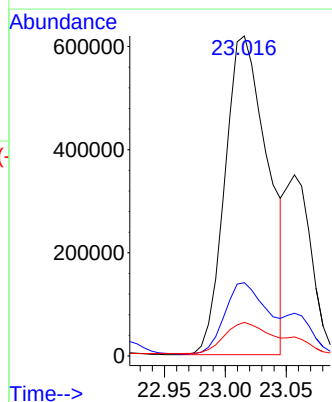
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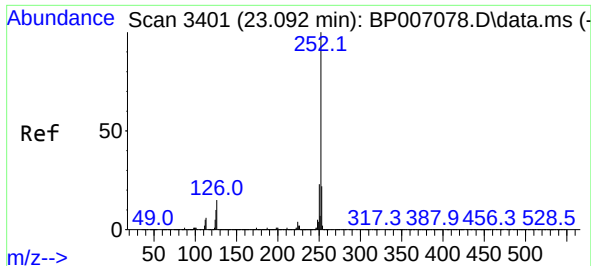
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#88  
Benzo(b)fluoranthene  
Concen: 17.281 ng  
RT: 23.016 min Scan# 3388  
Delta R.T. -0.012 min  
Lab File: BP007283.D  
Acq: 30 Sep 2021 22:00

Tgt Ion:252 Resp: 1508588  
Ion Ratio Lower Upper  
252 100  
253 22.9 17.5 26.3  
125 10.5 6.2 9.4#





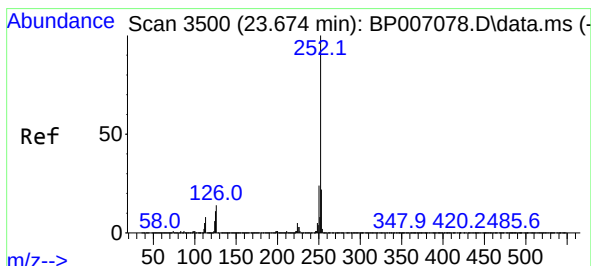
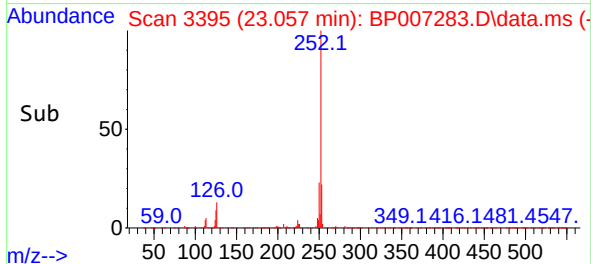
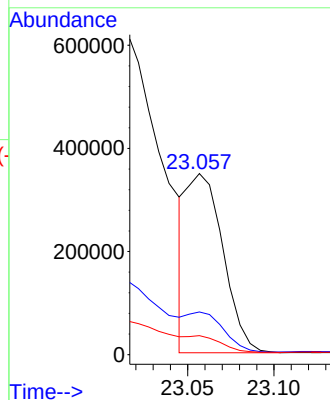
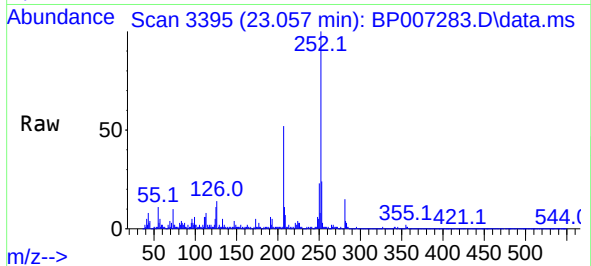
#89  
Benzo(k)fluoranthene  
Concen: 5.763 ng m  
RT: 23.057 min Scan# 3395  
Delta R.T. -0.018 min  
Lab File: BP007283.D  
Acq: 30 Sep 2021 22:00

Tgt Ion:252 Resp: 509370  
Ion Ratio Lower Upper  
252 100  
253 23.6 17.6 26.4  
125 10.5 6.0 9.0#

Instrument :  
BNA\_P  
ClientSampleId :  
CC-15DL

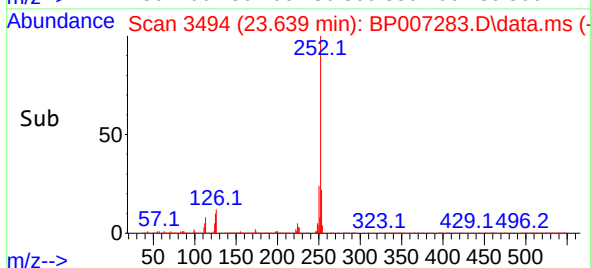
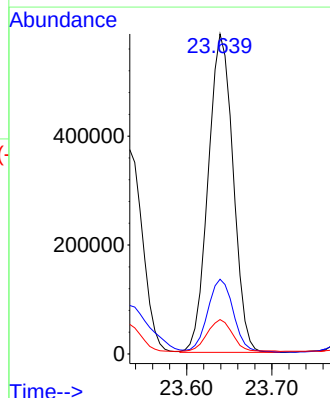
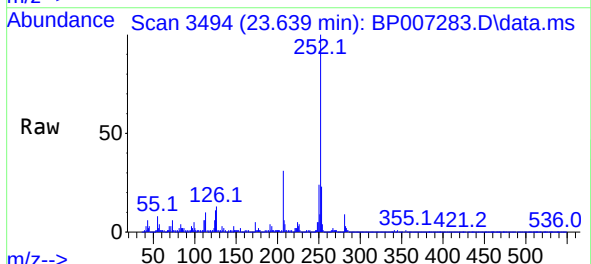
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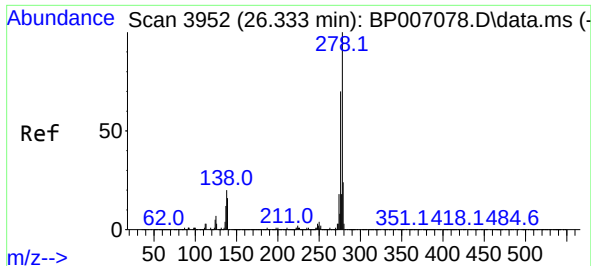
mohammad  
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#90  
Benzo(a)pyrene  
Concen: 16.051 ng  
RT: 23.639 min Scan# 3494  
Delta R.T. -0.018 min  
Lab File: BP007283.D  
Acq: 30 Sep 2021 22:00

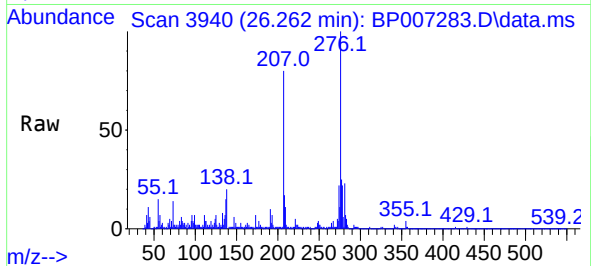
Tgt Ion:252 Resp: 1190415  
Ion Ratio Lower Upper  
252 100  
253 23.4 17.9 26.9  
125 10.8 6.5 9.7#





#91  
Dibenzo(a,h)anthracene  
Concen: 2.058 ng  
RT: 26.262 min Scan# 3940  
Delta R.T. -0.047 min  
Lab File: BP007283.D  
Acq: 30 Sep 2021 22:00

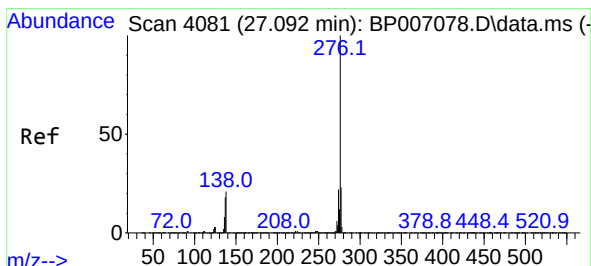
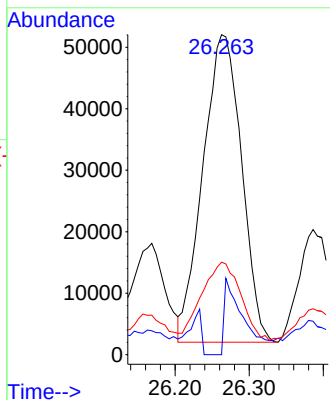
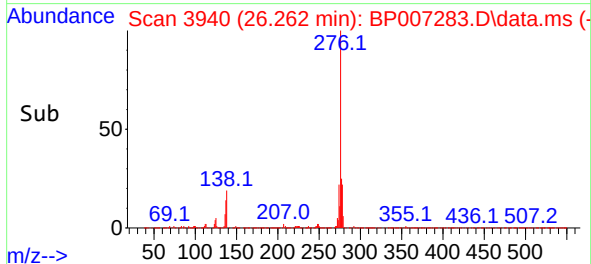
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BNA\_P  
ClientSampled :  
CC-15DL



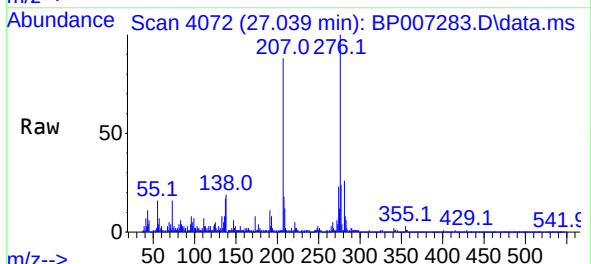
Tgt Ion:278 Resp: 181012  
Ion Ratio Lower Upper  
278 100  
139 0.0 9.3 13.9#  
279 28.9 18.8 28.2#

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#92  
Benzo(g,h,i)perylene  
Concen: 8.535 ng  
RT: 27.039 min Scan# 4072  
Delta R.T. -0.029 min  
Lab File: BP007283.D  
Acq: 30 Sep 2021 22:00



Tgt Ion:276 Resp: 732703  
Ion Ratio Lower Upper  
276 100  
277 23.8 18.9 28.3  
138 19.4 12.6 18.8#

