

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM022521\  
 Data File : BM028895.D  
 Acq On : 25 Feb 2021 12:11  
 Operator : CG/JU  
 Sample : M1462-01DL 10X  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 CL-01-022221DL

Quant Time: Feb 25 12:45:27 2021  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM022321.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Feb 23 16:39:41 2021  
 Response via : Initial Calibration

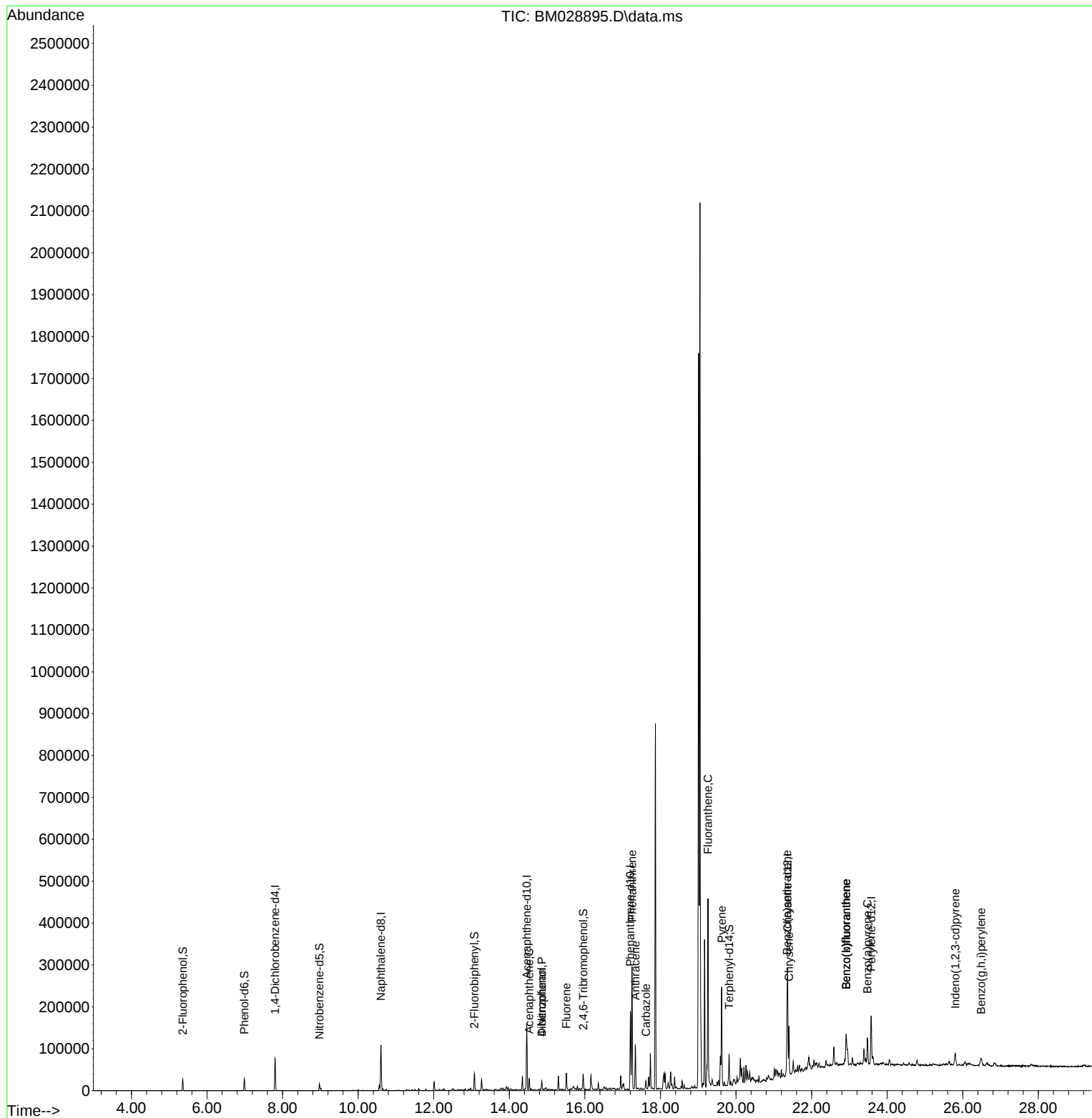
| Compound                    | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|--------|------|----------|-------|-------|----------|
| -----                       |        |      |          |       |       |          |
| Internal Standards          |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.798  | 152  | 20962    | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8          | 10.604 | 136  | 86267    | 20.00 | ng    | #-0.01   |
| 39) Acenaphthene-d10        | 14.463 | 164  | 51107    | 20.00 | ng    | -0.01    |
| 64) Phenanthrene-d10        | 17.204 | 188  | 105723   | 20.00 | ng    | -0.01    |
| 76) Chrysene-d12            | 21.368 | 240  | 88600    | 20.00 | ng    | # 0.00   |
| 86) Perylene-d12            | 23.580 | 264  | 73947    | 20.00 | ng    | -0.01    |
|                             |        |      |          |       |       |          |
| System Monitoring Compounds |        |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.357  | 112  | 12105    | 9.57  | ng    | 0.00     |
| 7) Phenol-d6                | 6.987  | 99   | 15225    | 9.11  | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 8.975  | 82   | 8900     | 5.57  | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol    | 15.957 | 330  | 5124     | 8.46  | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 13.075 | 172  | 22215    | 5.79  | ng    | -0.01    |
| 79) Terphenyl-d14           | 19.815 | 244  | 28881    | 6.02  | ng    | -0.01    |
|                             |        |      |          |       |       |          |
| Target Compounds            |        |      |          |       |       | Qvalue   |
| 52) Acenaphthene            | 14.521 | 154  | 10320    | 3.27  | ng    | 97       |
| 55) Dibenzofuran            | 14.863 | 168  | 11785    | 2.38  | ng    | 95       |
| 56) 4-Nitrophenol           | 14.863 | 139  | 4281     | 5.93  | ng    | # 1      |
| 58) Fluorene                | 15.510 | 166  | 17254    | 4.35  | ng    | 100      |
| 71) Phenanthrene            | 17.251 | 178  | 172257   | 27.36 | ng    | 100      |
| 72) Anthracene              | 17.339 | 178  | 64182    | 10.29 | ng    | 98       |
| 73) Carbazole               | 17.615 | 167  | 12382    | 2.07  | ng    | 97       |
| 75) Fluoranthene            | 19.256 | 202  | 191072   | 27.62 | ng    | 96       |
| 78) Pyrene                  | 19.621 | 202  | 140070   | 21.52 | ng    | 99       |
| 81) Benzo(a)anthracene      | 21.350 | 228  | 69384    | 11.28 | ng    | 99       |
| 83) Chrysene                | 21.403 | 228  | 56962    | 9.51  | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene  | 25.803 | 276  | 24140    | 4.33  | ng    | # 92     |
| 88) Benzo(b)fluoranthene    | 22.915 | 252  | 59531    | 11.40 | ng    | # 96     |
| 89) Benzo(k)fluoranthene    | 22.915 | 252  | 59531    | 12.00 | ng    | # 95     |
| 90) Benzo(a)pyrene          | 23.480 | 252  | 39635    | 8.32  | ng    | # 96     |
| 92) Benzo(g,h,i)perylene    | 26.485 | 276  | 20651    | 4.41  | ng    | # 91     |
| -----                       |        |      |          |       |       |          |

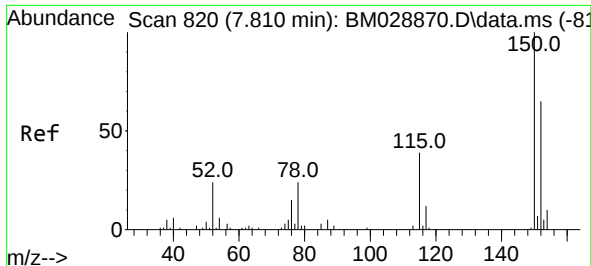
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM022521\  
Data File : BM028895.D  
Acq On : 25 Feb 2021 12:11  
Operator : CG/JU  
Sample : M1462-01DL 10X  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
CL-01-022221DL

Quant Time: Feb 25 12:45:27 2021  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM022321.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Feb 23 16:39:41 2021  
Response via : Initial Calibration

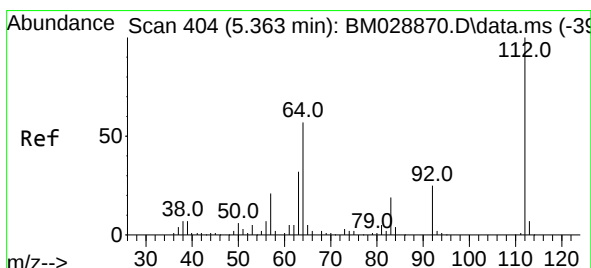
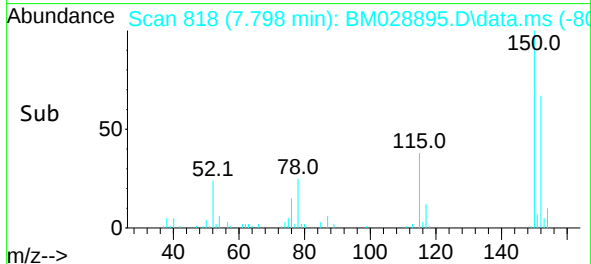
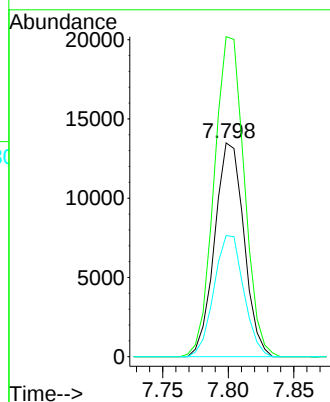
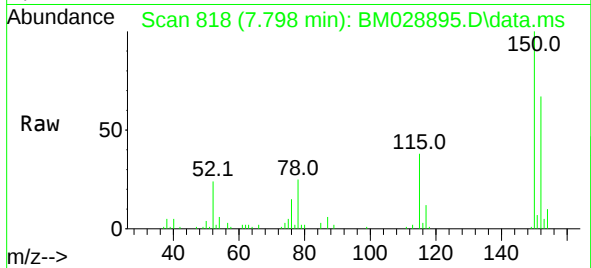




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.798 min Scan# 818  
Delta R.T. -0.012 min  
Lab File: BM028895.D  
Acq: 25 Feb 2021 12:11

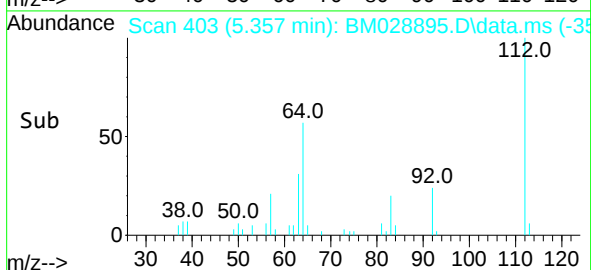
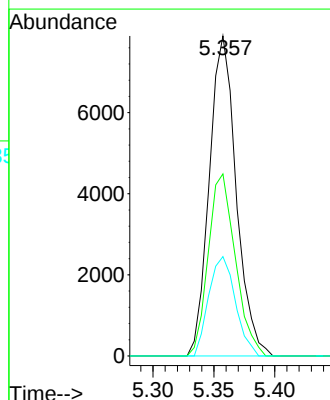
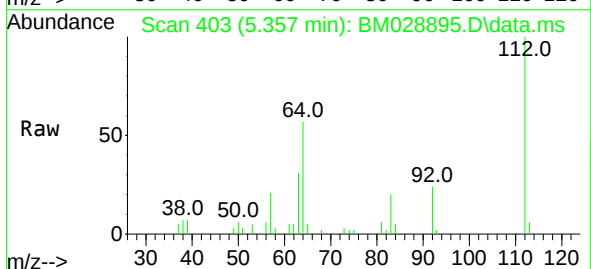
Instrument :  
BNA\_M  
ClientSampleId :  
CL-01-022221DL

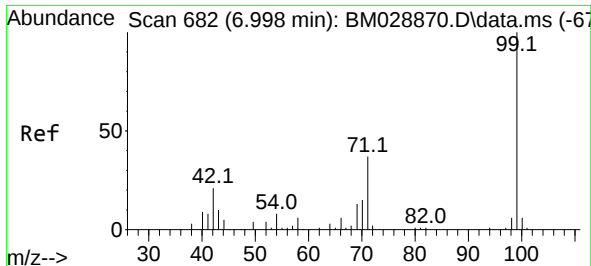
Tgt Ion:152 Resp: 20962  
Ion Ratio Lower Upper  
152 100  
150 149.6 120.6 181.0  
115 56.7 47.2 70.8



#5  
2-Fluorophenol  
Concen: 9.57 ng  
RT: 5.357 min Scan# 403  
Delta R.T. -0.006 min  
Lab File: BM028895.D  
Acq: 25 Feb 2021 12:11

Tgt Ion:112 Resp: 12105  
Ion Ratio Lower Upper  
112 100  
64 56.9 50.6 76.0  
63 31.1 31.0 46.6

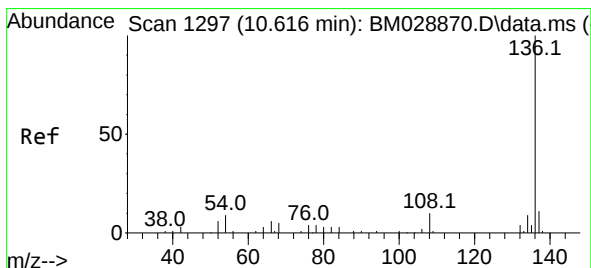
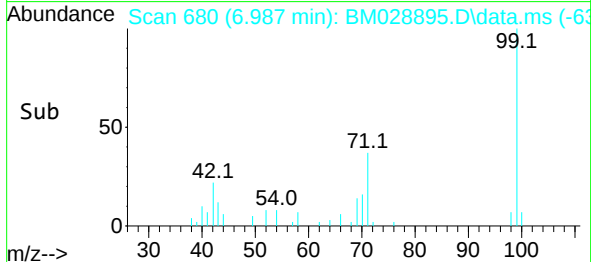
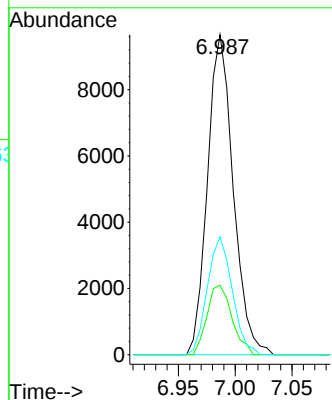
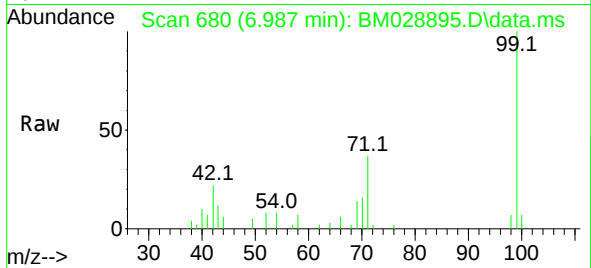




#7  
Phenol-d6  
Concen: 9.11 ng  
RT: 6.987 min Scan# 680  
Delta R.T. -0.012 min  
Lab File: BM028895.D  
Acq: 25 Feb 2021 12:11

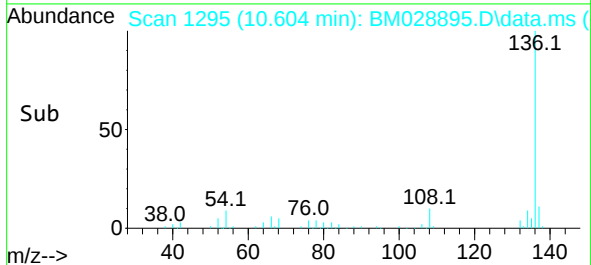
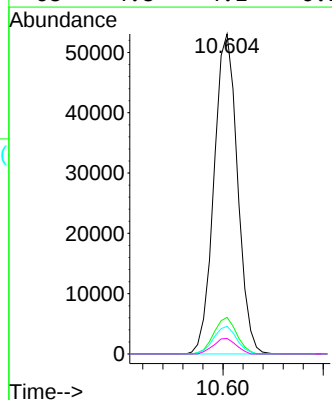
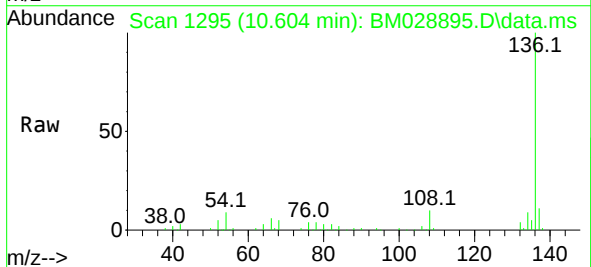
Instrument :  
BNA\_M  
ClientSampleId :  
CL-01-022221DL

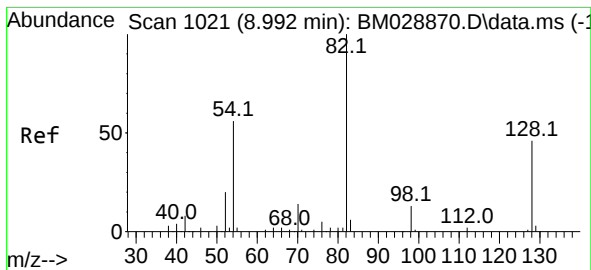
|             |             |
|-------------|-------------|
| Tgt Ion: 99 | Resp: 15225 |
| Ion Ratio   | Lower Upper |
| 99 100      |             |
| 42 21.7     | 13.5 20.3#  |
| 71 36.8     | 39.4 59.0#  |



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 10.604 min Scan# 1295  
Delta R.T. -0.012 min  
Lab File: BM028895.D  
Acq: 25 Feb 2021 12:11

|              |             |
|--------------|-------------|
| Tgt Ion: 136 | Resp: 86267 |
| Ion Ratio    | Lower Upper |
| 136 100      |             |
| 137 11.4     | 8.6 12.8    |
| 54 8.7       | 4.6 7.0#    |
| 68 4.8       | 4.1 6.1     |

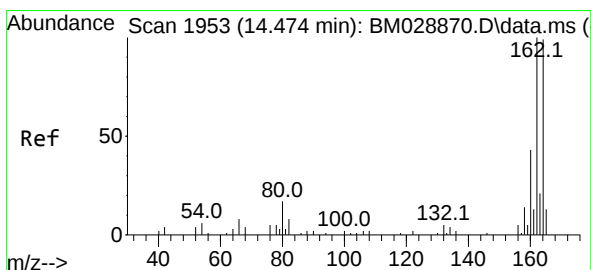
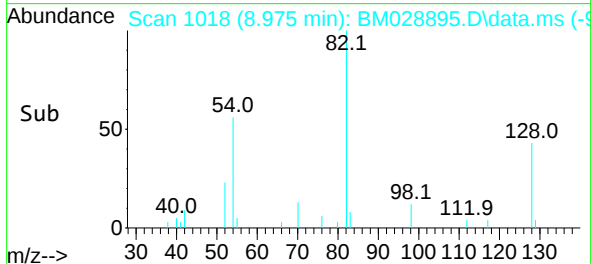
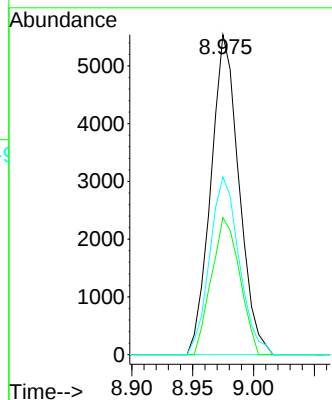
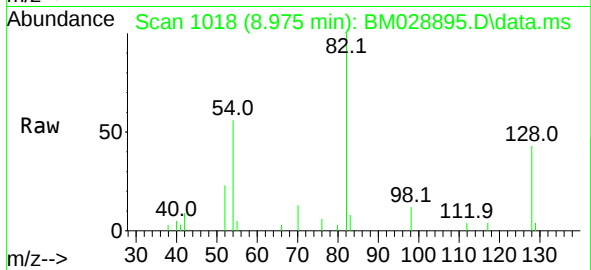




#23  
Nitrobenzene-d5  
Concen: 5.57 ng  
RT: 8.975 min Scan# 1018  
Delta R.T. -0.018 min  
Lab File: BM028895.D  
Acq: 25 Feb 2021 12:11

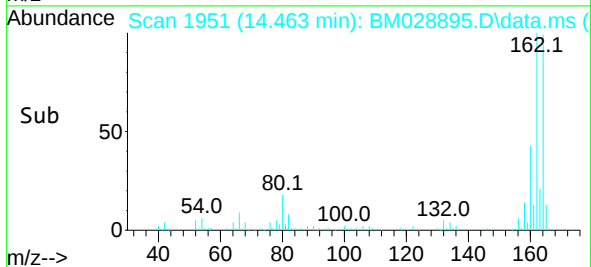
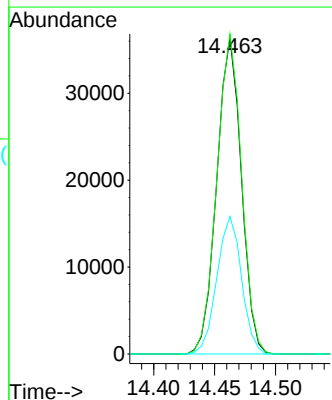
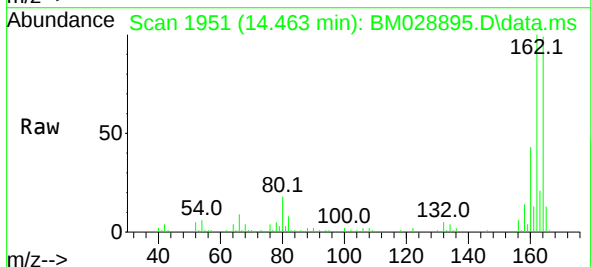
Instrument :  
BNA\_M  
ClientSampleId :  
CL-01-022221DL

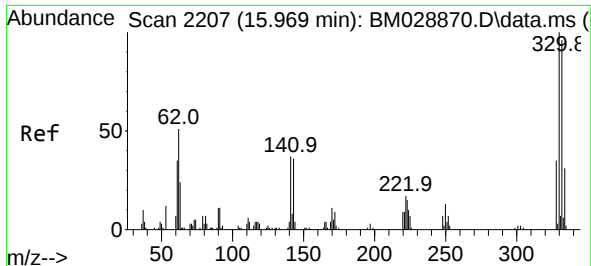
Tgt Ion: 82 Resp: 8900  
Ion Ratio Lower Upper  
82 100  
128 42.8 27.4 41.0#  
54 55.6 31.4 47.0#



#39  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 14.463 min Scan# 1951  
Delta R.T. -0.012 min  
Lab File: BM028895.D  
Acq: 25 Feb 2021 12:11

Tgt Ion: 164 Resp: 51107  
Ion Ratio Lower Upper  
164 100  
162 101.3 80.4 120.6  
160 43.5 35.9 53.9

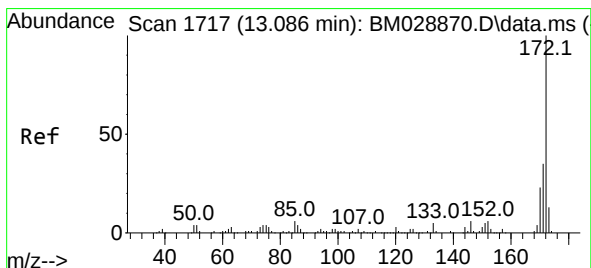
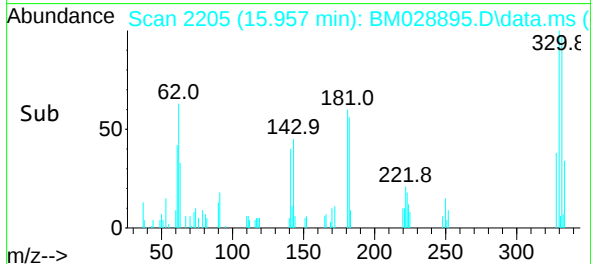
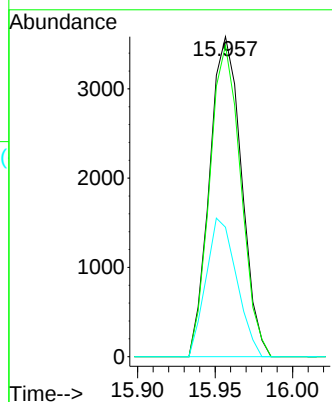
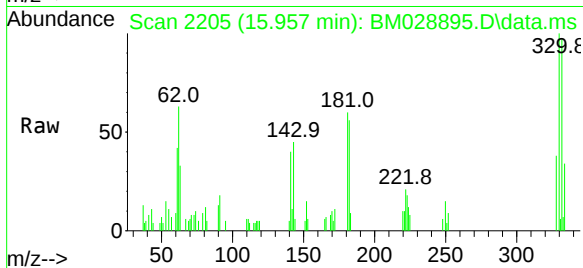




#42  
2,4,6-Tribromophenol  
Concen: 8.46 ng  
RT: 15.957 min Scan# 2205  
Delta R.T. -0.012 min  
Lab File: BM028895.D  
Acq: 25 Feb 2021 12:11

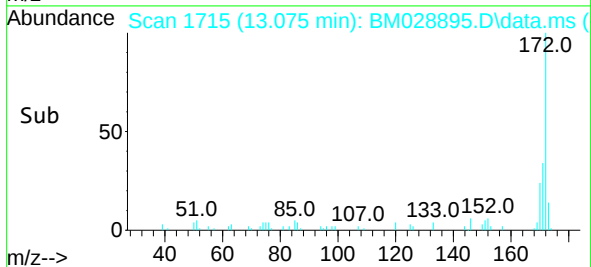
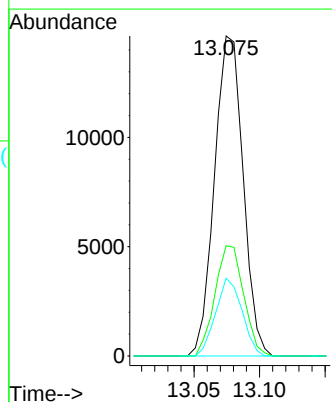
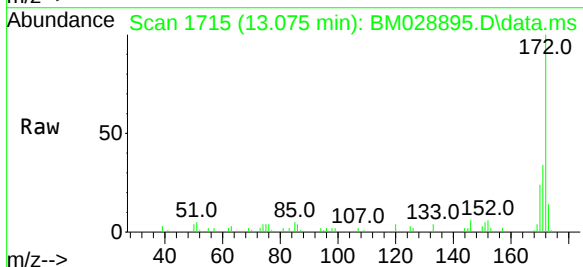
Instrument :  
BNA\_M  
ClientSampleId :  
CL-01-022221DL

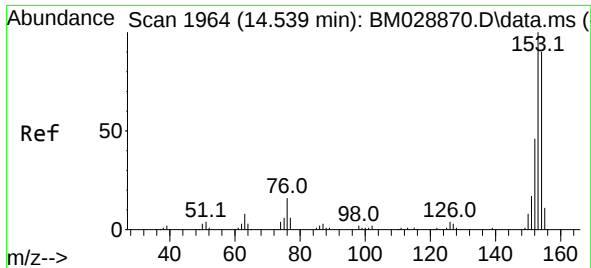
Tgt Ion:330 Resp: 5124  
Ion Ratio Lower Upper  
330 100  
332 94.8 77.8 116.8  
141 41.5 28.4 42.6



#45  
2-Fluorobiphenyl  
Concen: 5.79 ng  
RT: 13.075 min Scan# 1715  
Delta R.T. -0.012 min  
Lab File: BM028895.D  
Acq: 25 Feb 2021 12:11

Tgt Ion:172 Resp: 22215  
Ion Ratio Lower Upper  
172 100  
171 34.4 27.8 41.8  
170 24.3 18.6 27.8

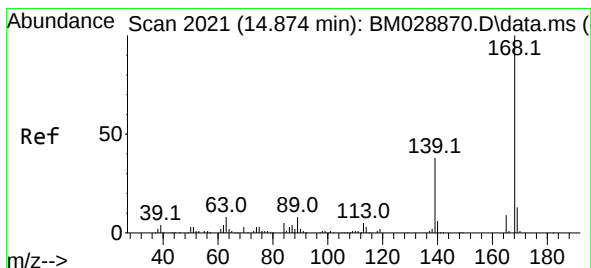
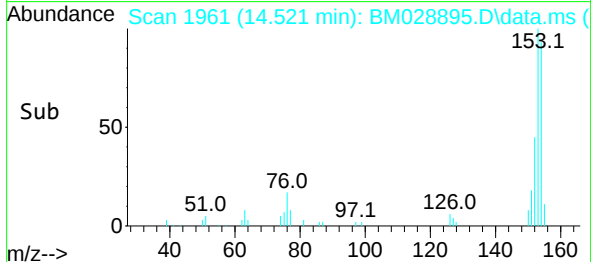
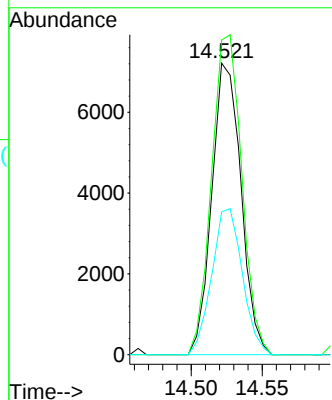
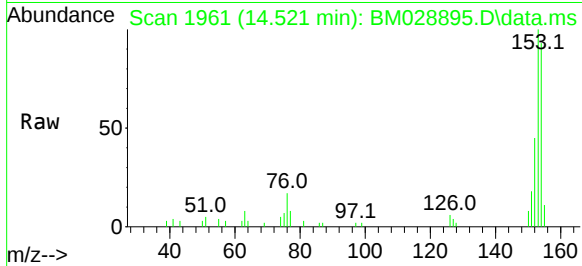




#52  
Acenaphthene  
Concen: 3.27 ng  
RT: 14.521 min Scan# 1961  
Delta R.T. -0.018 min  
Lab File: BM028895.D  
Acq: 25 Feb 2021 12:11

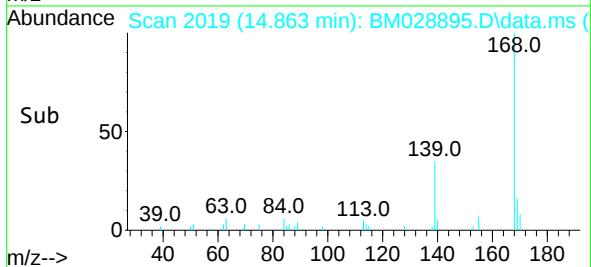
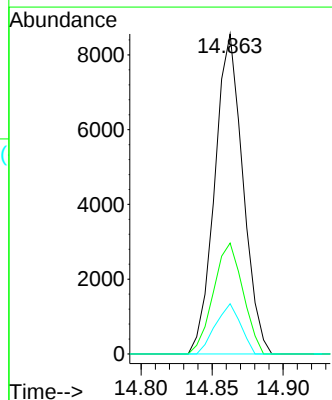
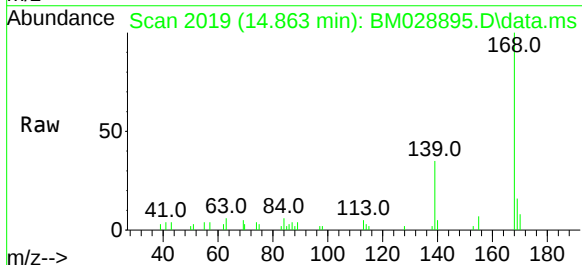
Instrument :  
BNA\_M  
ClientSampleID :  
CL-01-022221DL

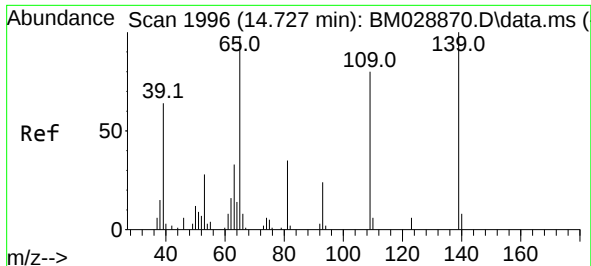
Tgt Ion:154 Resp: 10320  
Ion Ratio Lower Upper  
154 100  
153 107.9 88.3 132.5  
152 48.9 41.4 62.2



#55  
Dibenzofuran  
Concen: 2.38 ng  
RT: 14.863 min Scan# 2019  
Delta R.T. -0.012 min  
Lab File: BM028895.D  
Acq: 25 Feb 2021 12:11

Tgt Ion:168 Resp: 11785  
Ion Ratio Lower Upper  
168 100  
139 34.7 30.2 45.4  
169 15.7 10.6 16.0

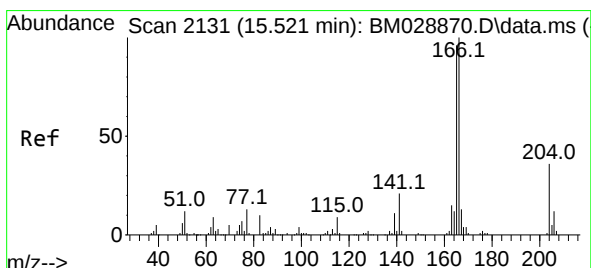
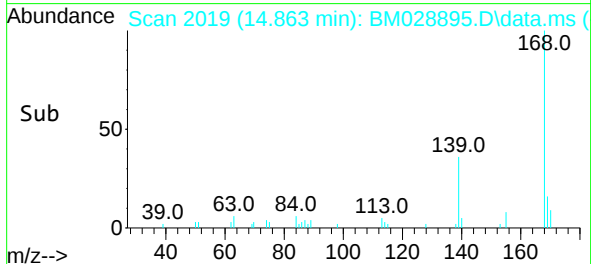
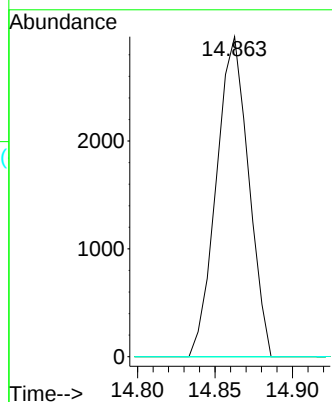
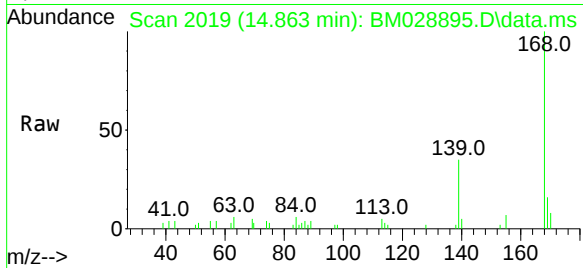




#56  
4-Nitrophenol  
Concen: 5.93 ng  
RT: 14.863 min Scan# 2019  
Delta R.T. 0.135 min  
Lab File: BM028895.D  
Acq: 25 Feb 2021 12:11

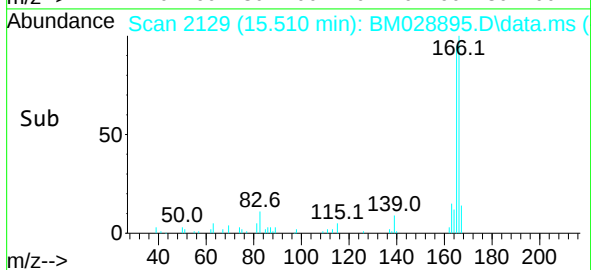
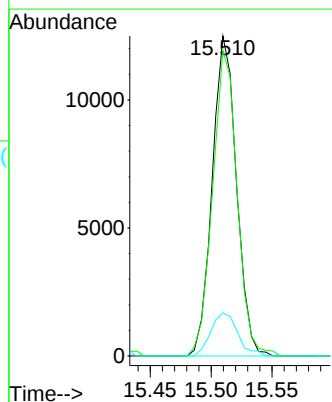
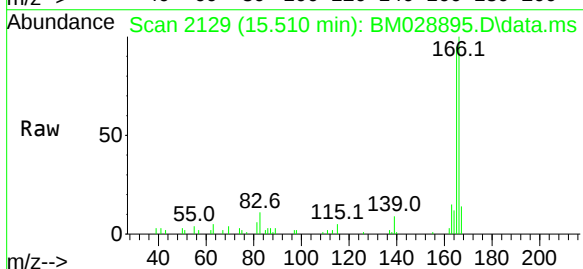
Instrument :  
BNA\_M  
ClientSampleId :  
CL-01-022221DL

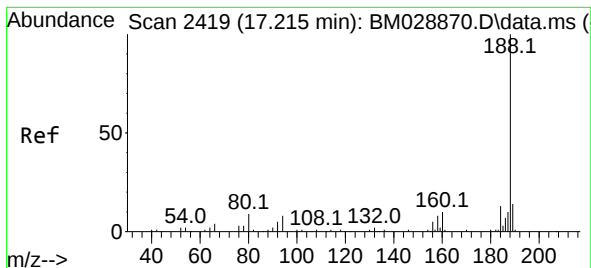
Tgt Ion:139 Resp: 4281  
Ion Ratio Lower Upper  
139 100  
109 0.0 77.0 117.0#  
65 0.0 103.4 143.4#



#58  
Fluorene  
Concen: 4.35 ng  
RT: 15.510 min Scan# 2129  
Delta R.T. -0.012 min  
Lab File: BM028895.D  
Acq: 25 Feb 2021 12:11

Tgt Ion:166 Resp: 17254  
Ion Ratio Lower Upper  
166 100  
165 95.5 76.2 114.2  
167 13.5 10.7 16.1





#64

Phenanthrene-d10

Concen: 20.00 ng

RT: 17.204 min Scan# 2417

Delta R.T. -0.012 min

Lab File: BM028895.D

Acq: 25 Feb 2021 12:11

Tgt Ion:188 Resp: 105723

Ion Ratio Lower Upper

188 100

94 9.0 6.2 9.4

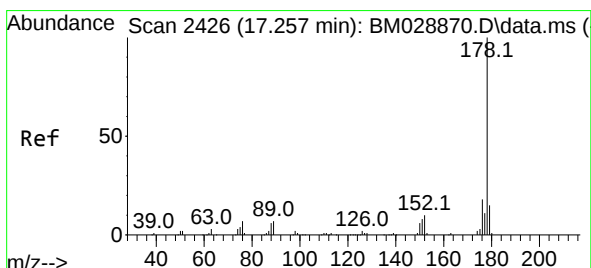
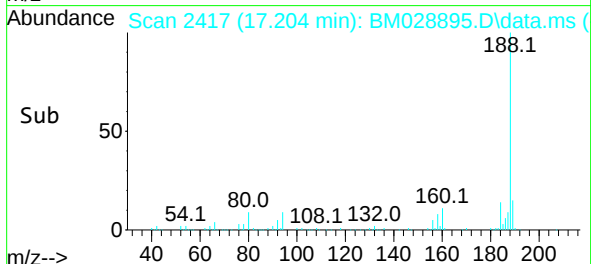
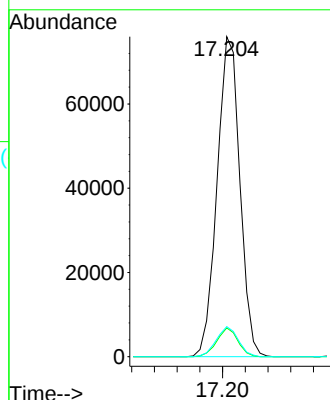
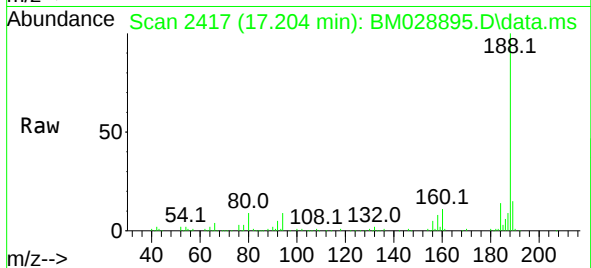
80 9.4 7.5 11.3

Instrument :

BNA\_M

ClientSampleId :

CL-01-022221DL



#71

Phenanthrene

Concen: 27.36 ng

RT: 17.251 min Scan# 2425

Delta R.T. -0.006 min

Lab File: BM028895.D

Acq: 25 Feb 2021 12:11

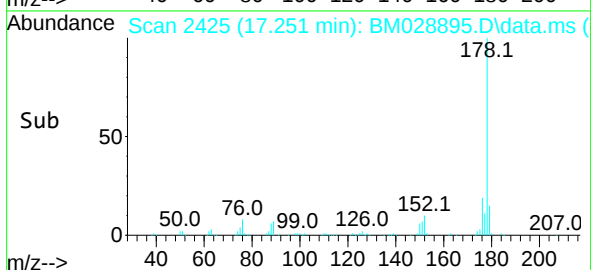
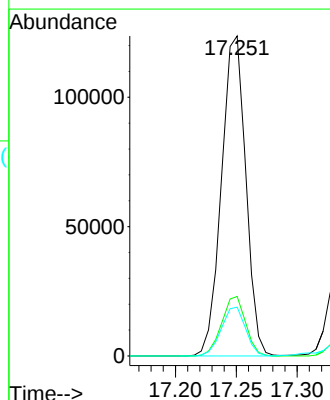
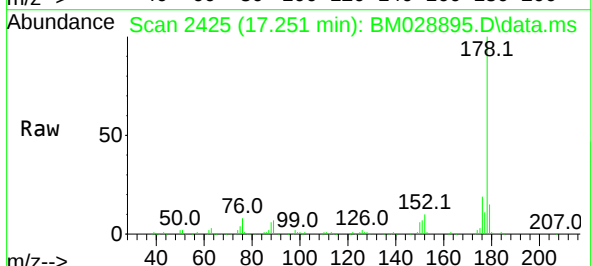
Tgt Ion:178 Resp: 172257

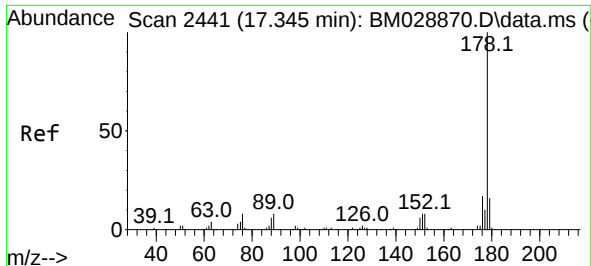
Ion Ratio Lower Upper

178 100

176 18.6 15.0 22.6

179 15.2 12.2 18.4

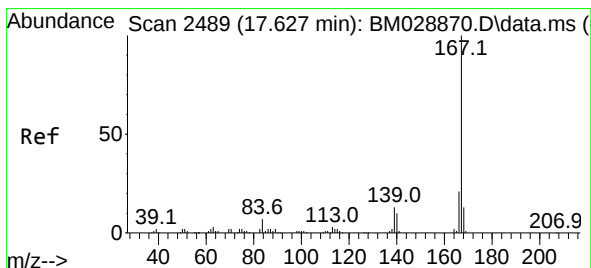
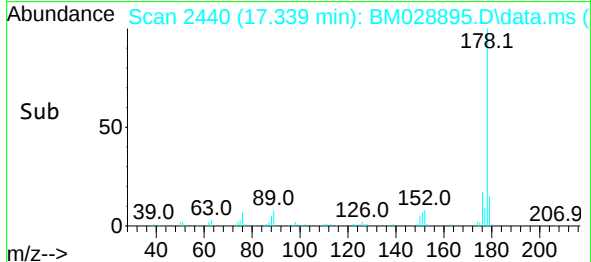
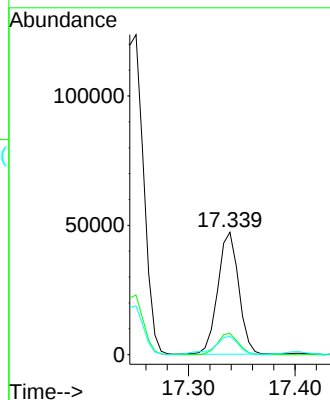
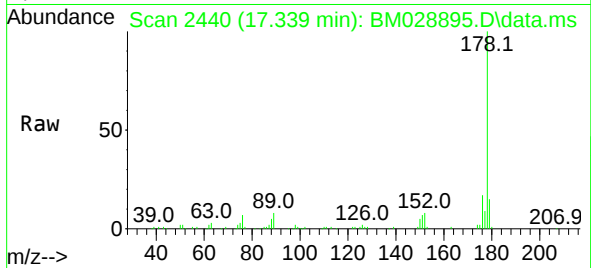




#72  
 Anthracene  
 Concen: 10.29 ng  
 RT: 17.339 min Scan# 2440  
 Delta R.T. -0.006 min  
 Lab File: BM028895.D  
 Acq: 25 Feb 2021 12:11

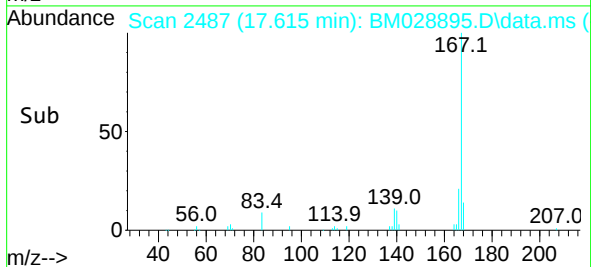
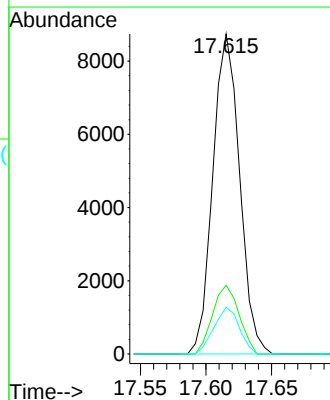
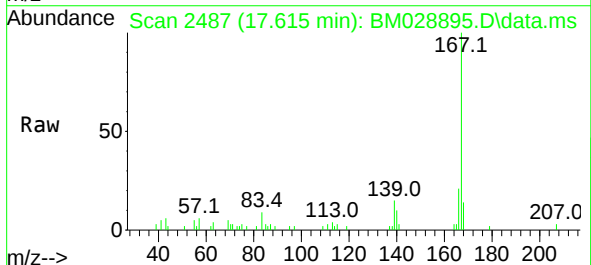
Instrument :  
 BNA\_M  
 ClientSampleId :  
 CL-01-022221DL

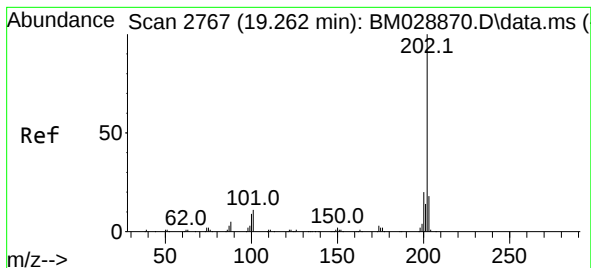
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:178 | Resp: | 64182     |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 176         | 17.4  | 15.0 22.4 |
| 179         | 15.1  | 12.5 18.7 |



#73  
 Carbazole  
 Concen: 2.07 ng  
 RT: 17.615 min Scan# 2487  
 Delta R.T. -0.012 min  
 Lab File: BM028895.D  
 Acq: 25 Feb 2021 12:11

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:167 | Resp: | 12382     |
| Ion Ratio   | Lower | Upper     |
| 167         | 100   |           |
| 166         | 21.5  | 16.9 25.3 |
| 139         | 14.6  | 9.9 14.9  |

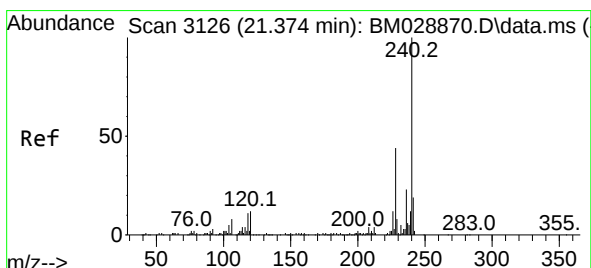
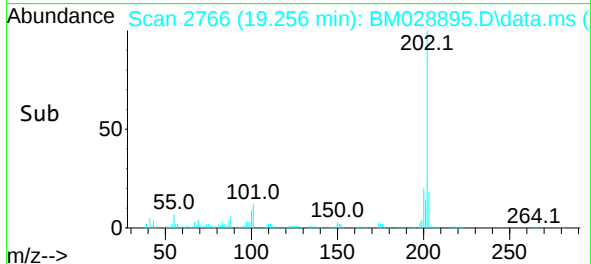
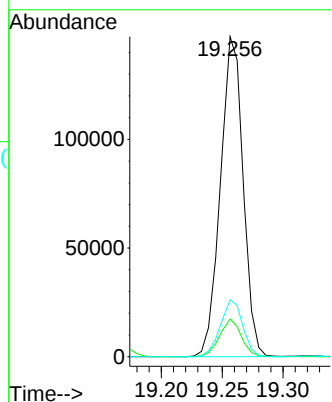
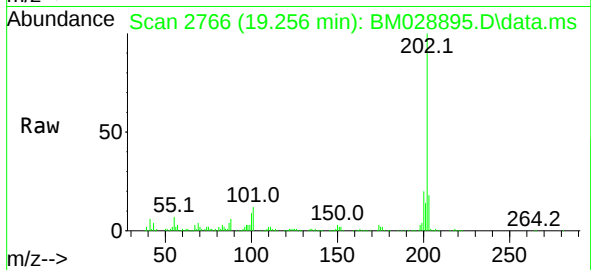




#75  
Fluoranthene  
Concen: 27.62 ng  
RT: 19.256 min Scan# 2766  
Delta R.T. -0.006 min  
Lab File: BM028895.D  
Acq: 25 Feb 2021 12:11

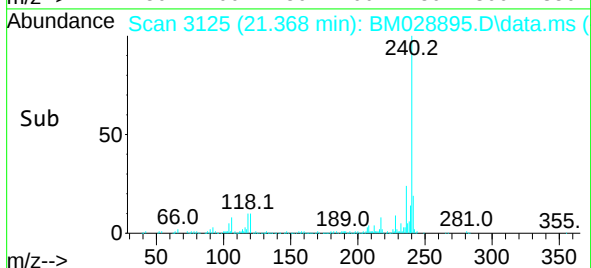
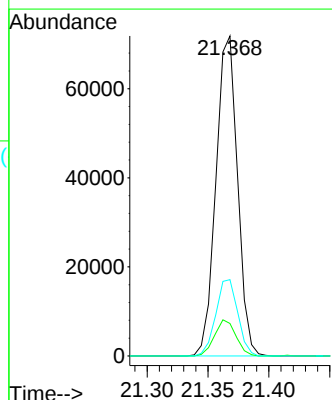
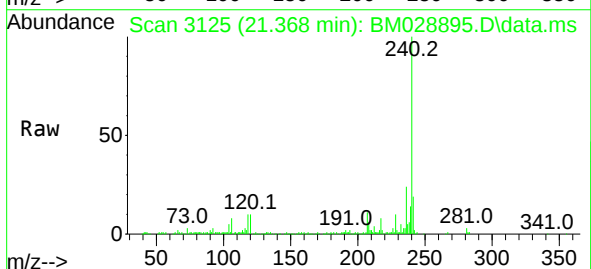
Instrument :  
BNA\_M  
ClientSampleId :  
CL-01-022221DL

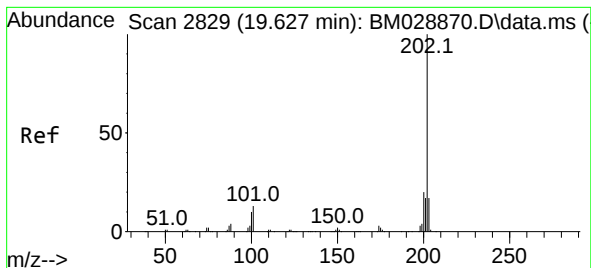
Tgt Ion:202 Resp: 191072  
Ion Ratio Lower Upper  
202 100  
101 11.8 0.0 28.5  
203 17.8 0.0 37.3



#76  
Chrysene-d12  
Concen: 20.00 ng  
RT: 21.368 min Scan# 3125  
Delta R.T. -0.006 min  
Lab File: BM028895.D  
Acq: 25 Feb 2021 12:11

Tgt Ion:240 Resp: 88600  
Ion Ratio Lower Upper  
240 100  
120 10.1 6.4 9.6#  
236 23.9 20.1 30.1





#78

Pyrene

Concen: 21.52 ng

RT: 19.621 min Scan# 2828

Delta R.T. -0.006 min

Lab File: BM028895.D

Acq: 25 Feb 2021 12:11

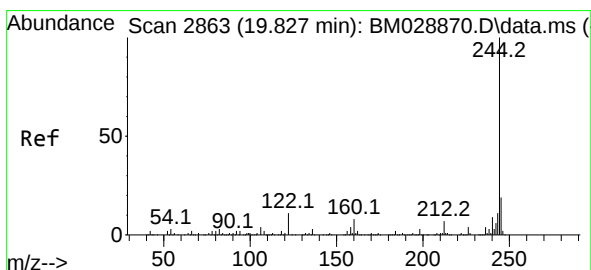
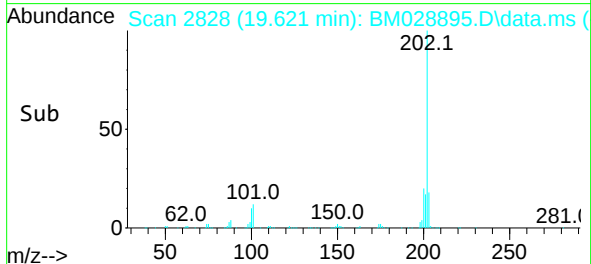
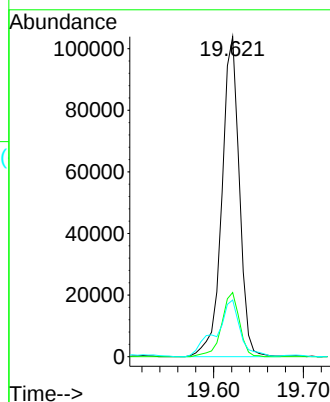
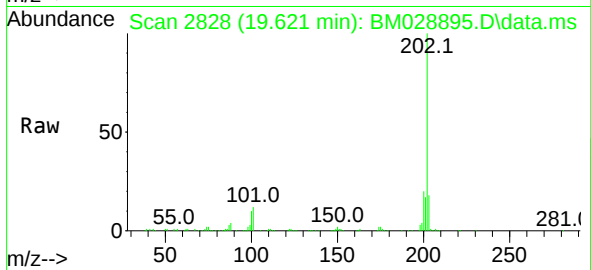
Tgt Ion:202 Resp: 140070

Ion Ratio Lower Upper

202 100

200 20.1 16.6 24.8

203 17.7 13.8 20.6



#79

Terphenyl-d14

Concen: 6.02 ng

RT: 19.815 min Scan# 2861

Delta R.T. -0.012 min

Lab File: BM028895.D

Acq: 25 Feb 2021 12:11

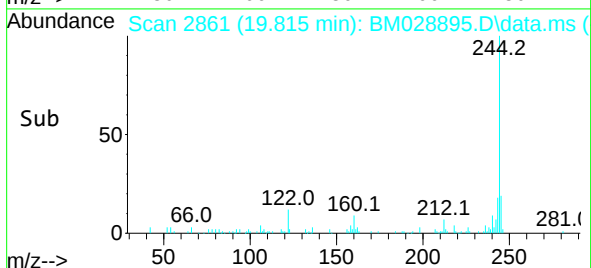
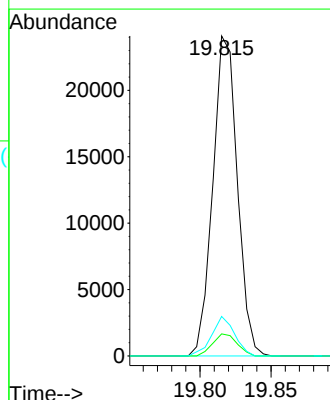
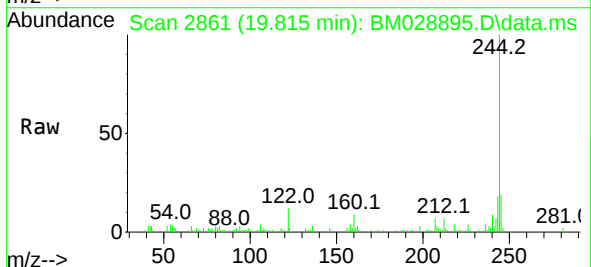
Tgt Ion:244 Resp: 28881

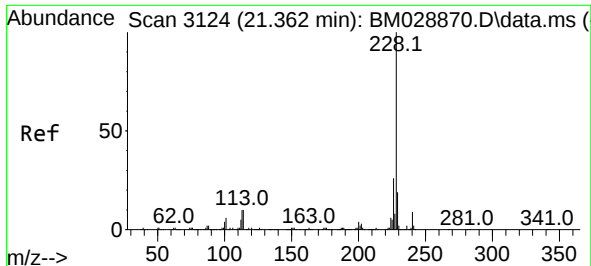
Ion Ratio Lower Upper

244 100

212 6.9 5.8 8.8

122 12.3 6.5 9.7#

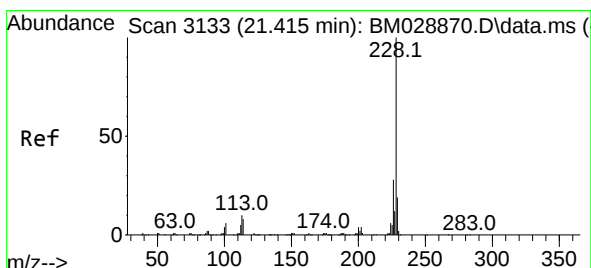
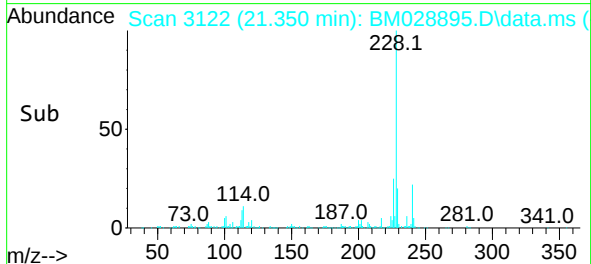
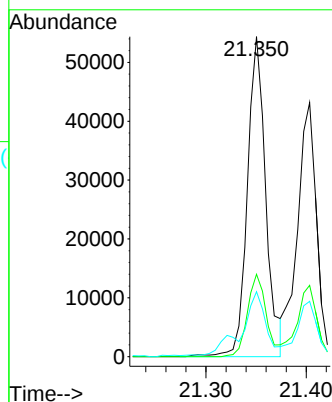
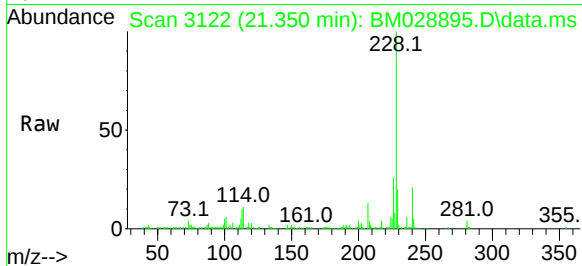




#81  
Benzo(a)anthracene  
Concen: 11.28 ng  
RT: 21.350 min Scan# 3122  
Delta R.T. -0.012 min  
Lab File: BM028895.D  
Acq: 25 Feb 2021 12:11

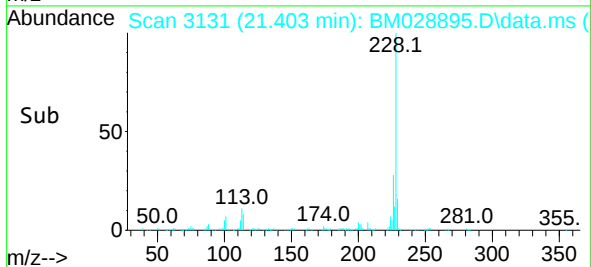
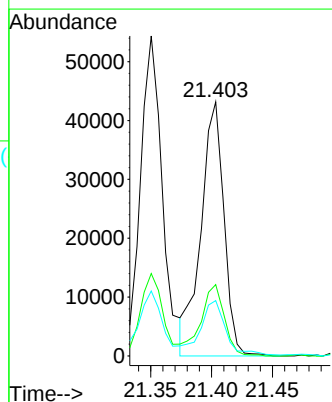
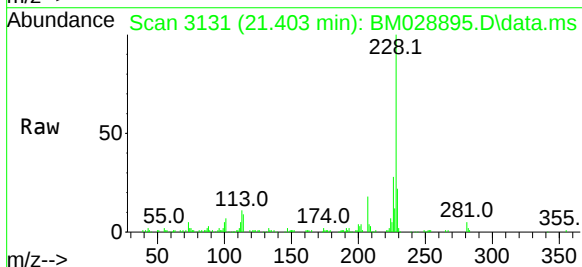
Instrument :  
BNA\_M  
ClientSampleId :  
CL-01-022221DL

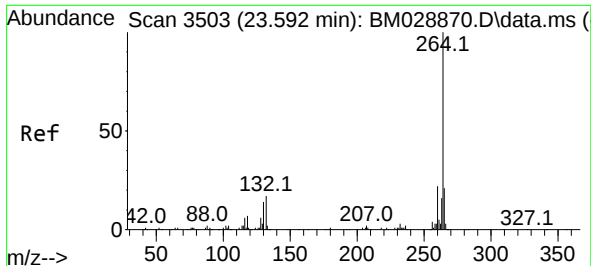
Tgt Ion:228 Resp: 69384  
Ion Ratio Lower Upper  
228 100  
226 25.7 21.1 31.7  
229 20.3 15.7 23.5



#83  
Chrysene  
Concen: 9.51 ng  
RT: 21.403 min Scan# 3131  
Delta R.T. -0.012 min  
Lab File: BM028895.D  
Acq: 25 Feb 2021 12:11

Tgt Ion:228 Resp: 56962  
Ion Ratio Lower Upper  
228 100  
226 28.1 23.4 35.0  
229 21.8 15.7 23.5

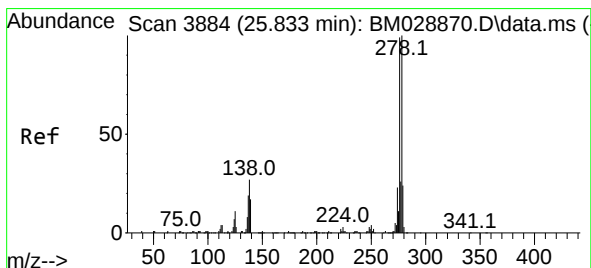
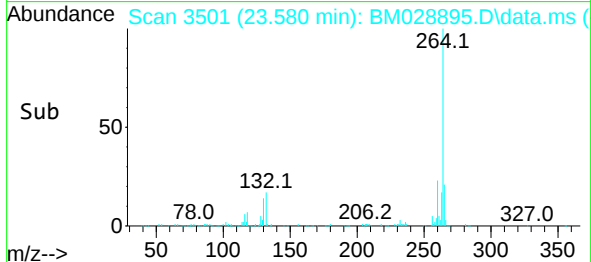
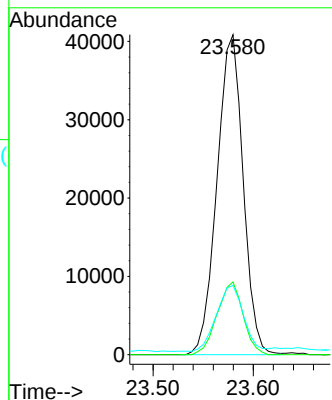
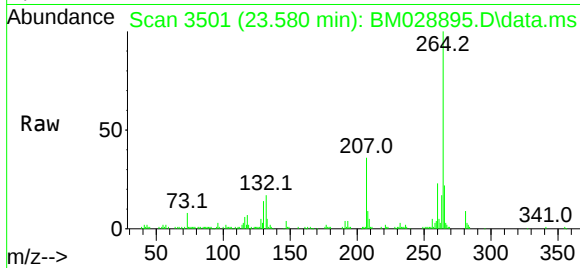




#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 23.580 min Scan# 3501  
Delta R.T. -0.012 min  
Lab File: BM028895.D  
Acq: 25 Feb 2021 12:11

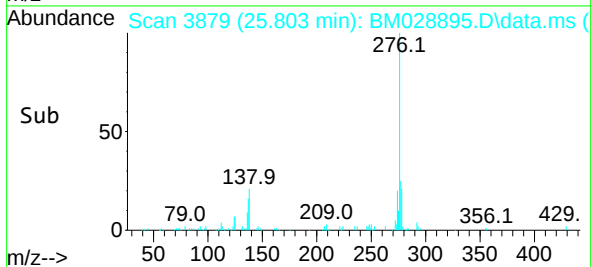
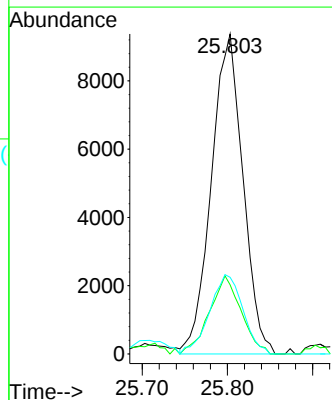
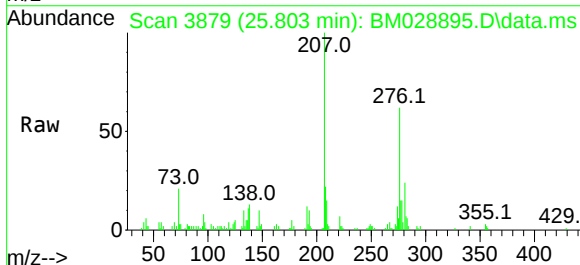
Instrument :  
BNA\_M  
ClientSampleId :  
CL-01-022221DL

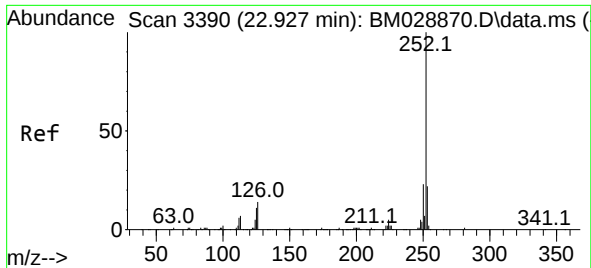
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:264 | Resp: | 73947     |
| Ion Ratio   | Lower | Upper     |
| 264         | 100   |           |
| 260         | 22.8  | 19.0 28.4 |
| 265         | 21.7  | 17.7 26.5 |



#87  
Indeno(1,2,3-cd)pyrene  
Concen: 4.33 ng  
RT: 25.803 min Scan# 3879  
Delta R.T. -0.029 min  
Lab File: BM028895.D  
Acq: 25 Feb 2021 12:11

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:276 | Resp: | 24140      |
| Ion Ratio   | Lower | Upper      |
| 276         | 100   |            |
| 138         | 24.5  | 14.2 21.4# |
| 277         | 26.1  | 19.8 29.8  |

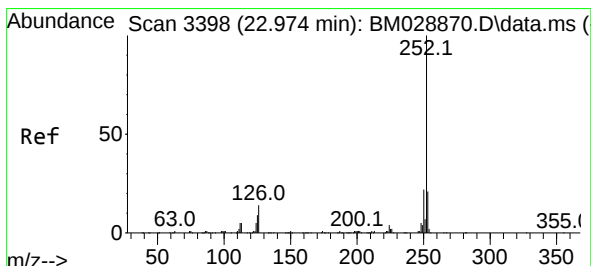
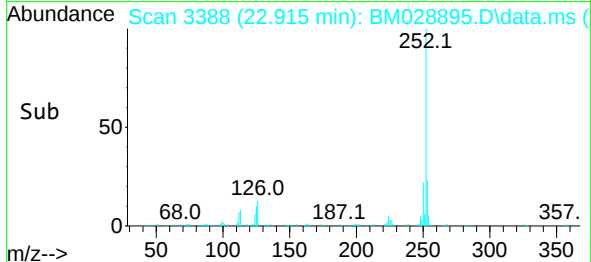
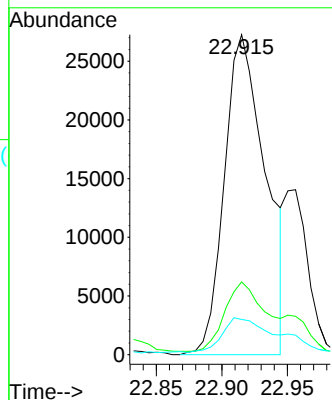
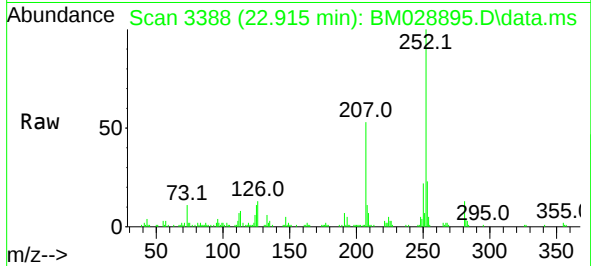




#88  
Benzo(b)fluoranthene  
Concen: 11.40 ng  
RT: 22.915 min Scan# 3388  
Delta R.T. -0.012 min  
Lab File: BM028895.D  
Acq: 25 Feb 2021 12:11

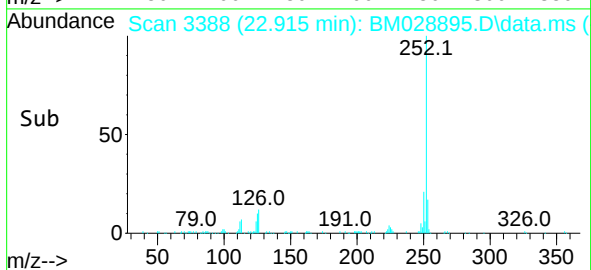
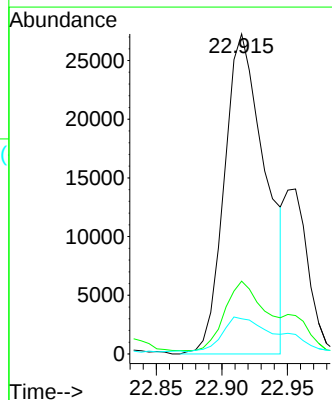
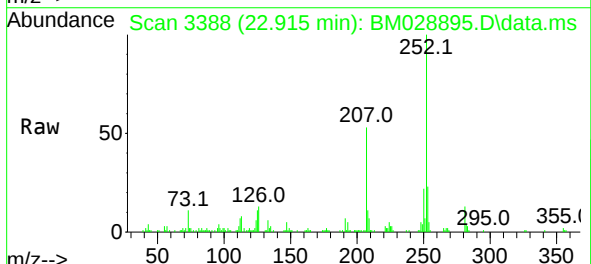
Instrument :  
BNA\_M  
ClientSampleId :  
CL-01-022221DL

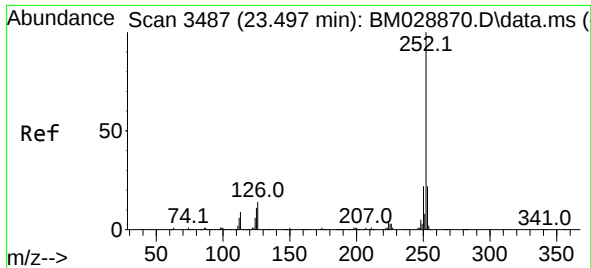
Tgt Ion:252 Resp: 59531  
Ion Ratio Lower Upper  
252 100  
253 22.8 17.4 26.0  
125 11.0 5.7 8.5#



#89  
Benzo(k)fluoranthene  
Concen: 12.00 ng  
RT: 22.915 min Scan# 3388  
Delta R.T. -0.059 min  
Lab File: BM028895.D  
Acq: 25 Feb 2021 12:11

Tgt Ion:252 Resp: 59531  
Ion Ratio Lower Upper  
252 100  
253 22.8 17.4 26.0  
125 11.0 5.6 8.4#

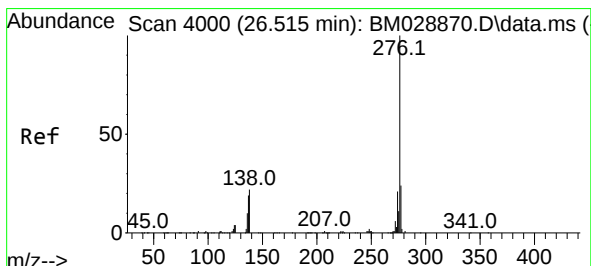
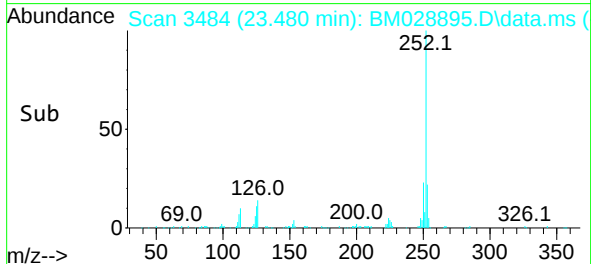
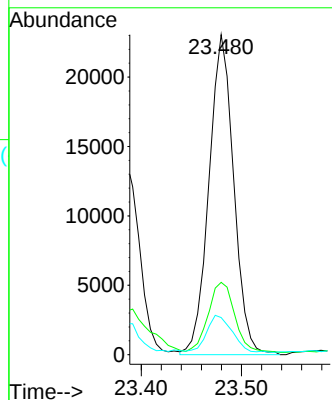
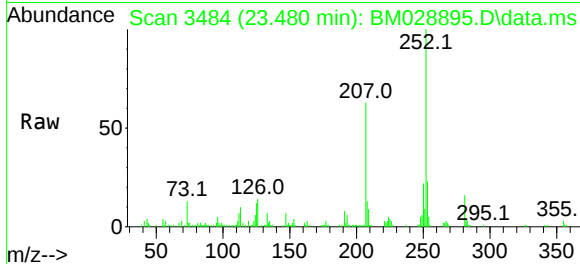




#90  
Benzo(a)pyrene  
Concen: 8.32 ng  
RT: 23.480 min Scan# 3484  
Delta R.T. -0.018 min  
Lab File: BM028895.D  
Acq: 25 Feb 2021 12:11

Instrument :  
BNA\_M  
ClientSampleId :  
CL-01-022221DL

Tgt Ion:252 Resp: 39635  
Ion Ratio Lower Upper  
252 100  
253 22.6 17.4 26.2  
125 11.6 6.6 9.8#



#92  
Benzo(g,h,i)perylene  
Concen: 4.41 ng  
RT: 26.485 min Scan# 3995  
Delta R.T. -0.029 min  
Lab File: BM028895.D  
Acq: 25 Feb 2021 12:11

Tgt Ion:276 Resp: 20651  
Ion Ratio Lower Upper  
276 100  
277 25.2 18.6 28.0  
138 21.9 12.2 18.2#

