

Data Path : Z:\svoasrv\HPCHEM1\BNA\_E\Data\BE020119\  
 Data File : BE098691.D  
 Acq On : 1 Feb 2019 13:42  
 Operator : JU/SJ  
 Sample : K1281-01MSD  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 SB-16(35.5-36)MSD

Quant Time: Feb 01 15:33:28 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE012419.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jan 24 14:44:44 2019  
 Response via : Initial Calibration

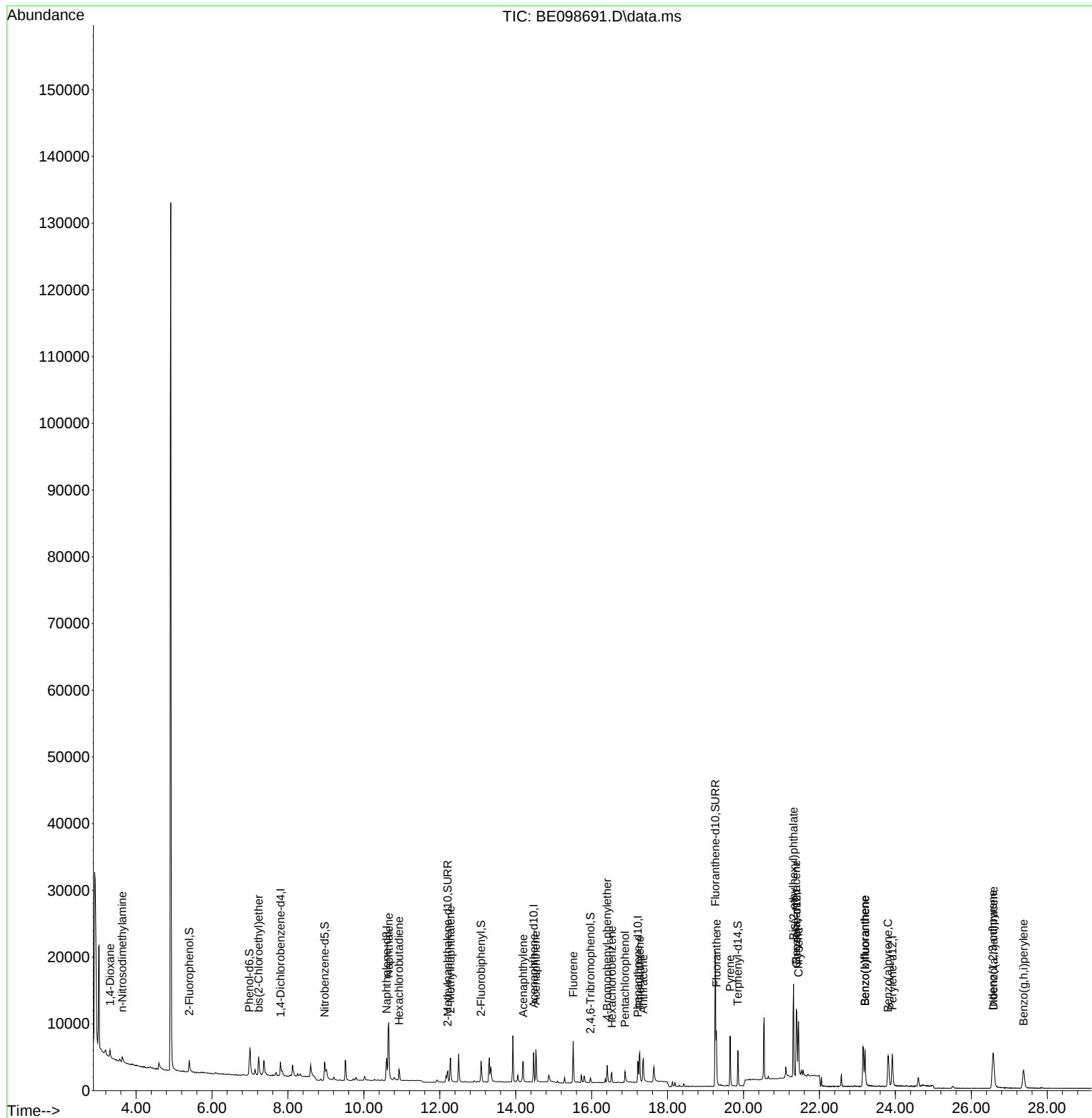
| Compound                      | R.T.   | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|------|----------|------|-------|----------|
| -----                         |        |      |          |      |       |          |
| Internal Standards            |        |      |          |      |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.805  | 152  | 1055     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.602 | 136  | 4211     | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.471 | 164  | 2549     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.214 | 188  | 5740     | 0.40 | ng    | #-0.01   |
| 27) Chrysene-d12              | 21.402 | 240  | 7162     | 0.40 | ng    | #-0.01   |
| 34) Perylene-d12              | 23.920 | 264  | 7475     | 0.40 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |      |       |          |
| 4) 2-Fluorophenol             | 5.398  | 112  | 1158     | 0.37 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.987  | 99   | 1693     | 0.37 | ng    | -0.01    |
| 8) Nitrobenzene-d5            | 8.965  | 82   | 1312     | 0.33 | ng    | -0.01    |
| 11) 2-Methylnaphthalene-d10   | 12.209 | 152  | 3243     | 0.40 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.969 | 330  | 464      | 0.41 | ng    | -0.01    |
| 15) 2-Fluorobiphenyl          | 13.088 | 172  | 3377     | 0.31 | ng    | -0.01    |
| 25) Fluoranthene-d10          | 19.259 | 212  | 29398    | 0.36 | ng    | 0.00     |
| 29) Terphenyl-d14             | 19.850 | 244  | 5178     | 0.29 | ng    | 0.00     |
| Target Compounds              |        |      |          |      |       |          |
|                               |        |      |          |      |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.313  | 88   | 518      | 0.22 | ng    | # 59     |
| 3) n-Nitrosodimethylamine     | 3.636  | 42   | 999      | 0.40 | ng    | # 97     |
| 6) bis(2-Chloroethyl)ether    | 7.229  | 93   | 1280     | 0.41 | ng    | 90       |
| 9) Naphthalene                | 10.654 | 128  | 17521    | 0.36 | ng    | 100      |
| 10) Hexachlorobutadiene       | 10.926 | 225  | 1108     | 0.34 | ng    | 95       |
| 12) 2-Methylnaphthalene       | 12.281 | 142  | 2892     | 0.36 | ng    | 97       |
| 16) Acenaphthylene            | 14.197 | 152  | 4477     | 0.34 | ng    | 100      |
| 17) Acenaphthene              | 14.529 | 154  | 2688     | 0.35 | ng    | 98       |
| 18) Fluorene                  | 15.514 | 166  | 3626     | 0.34 | ng    | 99       |
| 20) 4-Bromophenyl-phenylether | 16.411 | 248  | 1259     | 0.37 | ng    | 99       |
| 21) Hexachlorobenzene         | 16.531 | 284  | 1345     | 0.34 | ng    | 96       |
| 22) Pentachlorophenol         | 16.879 | 266  | 1044     | 1.02 | ng    | 96       |
| 23) Phenanthrene              | 17.267 | 178  | 5797     | 0.37 | ng    | 99       |
| 24) Anthracene                | 17.361 | 178  | 4883     | 0.37 | ng    | 99       |
| 26) Fluoranthene              | 19.287 | 202  | 7458     | 0.37 | ng    | 99       |
| 28) Pyrene                    | 19.649 | 202  | 7557     | 0.33 | ng    | 99       |
| 30) Benzo(a)anthracene        | 21.390 | 228  | 7926     | 0.37 | ng    | 98       |
| 31) Chrysene                  | 21.451 | 228  | 8223     | 0.35 | ng    | 99       |
| 32) Bis(2-ethylhexyl)phtha... | 21.318 | 149  | 17418    | 0.43 | ng    | 100      |
| 33) Indeno(1,2,3-cd)pyrene    | 26.569 | 276  | 8454     | 0.34 | ng    | 98       |
| 35) Benzo(b)fluoranthene      | 23.200 | 252  | 8341     | 0.34 | ng    | 98       |
| 36) Benzo(k)fluoranthene      | 23.200 | 252  | 8341     | 0.32 | ng    | 97       |
| 37) Benzo(a)pyrene            | 23.806 | 252  | 7992     | 0.35 | ng    | # 96     |
| 38) Dibenzo(a,h)anthracene    | 26.583 | 278  | 7107     | 0.33 | ng    | 98       |
| 39) Benzo(g,h,i)perylene      | 27.379 | 276  | 7426     | 0.32 | ng    | 98       |
| -----                         |        |      |          |      |       |          |

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

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ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_E  
ClientSampleId :  
SB-16(35.5-36)MSD

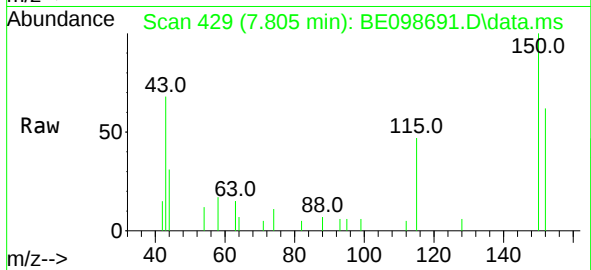
Quant Time: Feb 01 15:33:28 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE012419.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Jan 24 14:44:44 2019  
Response via : Initial Calibration



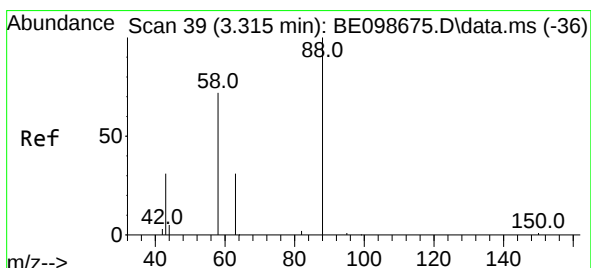
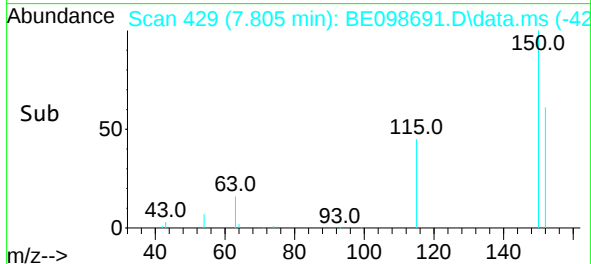
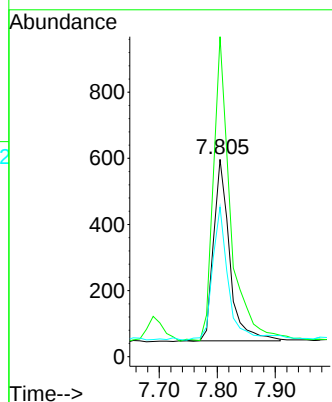


#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.40 ng  
 RT: 7.805 min Scan# 429  
 Delta R.T. -0.002 min  
 Lab File: BE098691.D  
 Acq: 1 Feb 2019 13:42

Instrument :  
 BNA\_E  
 ClientSampleId :  
 SB-16(35.5-36)MSD

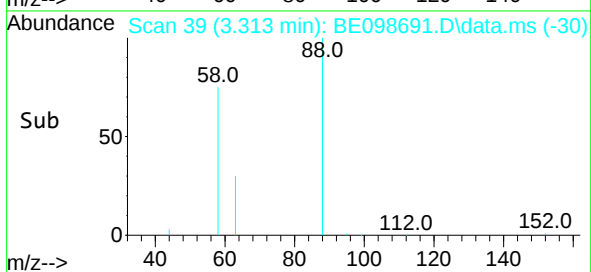
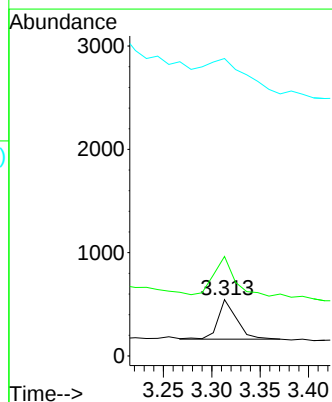
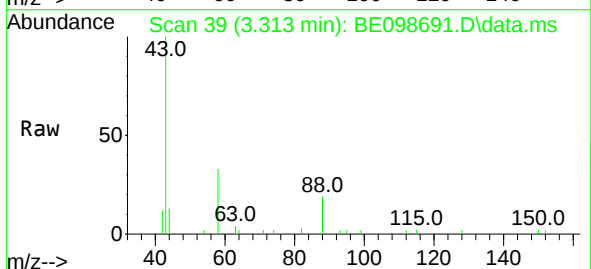


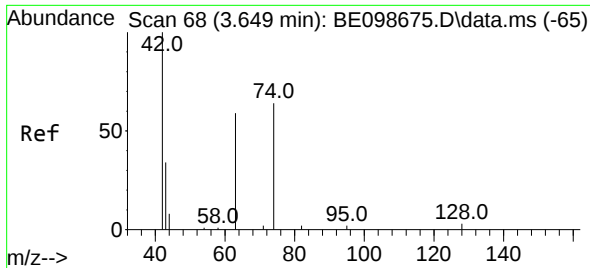
Tgt Ion:152 Resp: 1055  
 Ion Ratio Lower Upper  
 152 100  
 150 162.1 121.4 182.2  
 115 75.9 59.1 88.7



#2  
 1,4-Dioxane  
 Concen: 0.22 ng  
 RT: 3.313 min Scan# 39  
 Delta R.T. -0.002 min  
 Lab File: BE098691.D  
 Acq: 1 Feb 2019 13:42

Tgt Ion: 88 Resp: 518  
 Ion Ratio Lower Upper  
 88 100  
 58 111.2 73.9 110.9#  
 43 0.0 43.7 65.5#

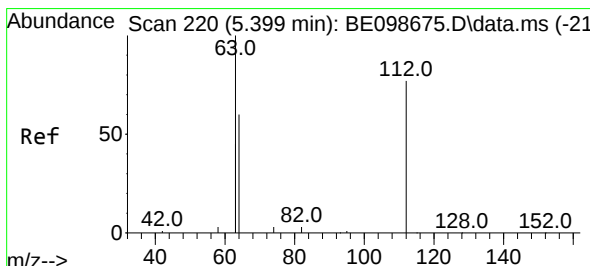
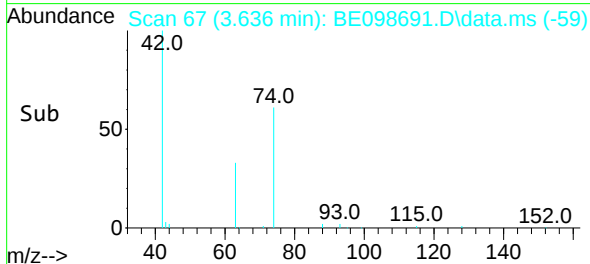
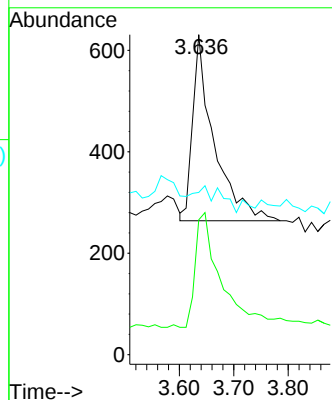
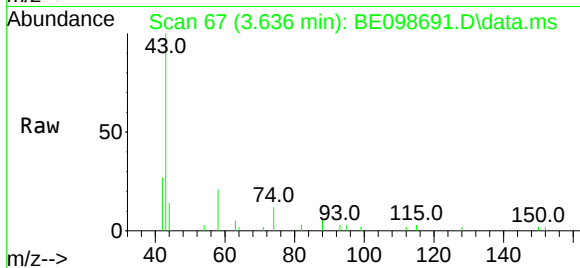




#3  
n-Nitrosodimethylamine  
Concen: 0.40 ng  
RT: 3.636 min Scan# 67  
Delta R.T. -0.013 min  
Lab File: BE098691.D  
Acq: 1 Feb 2019 13:42

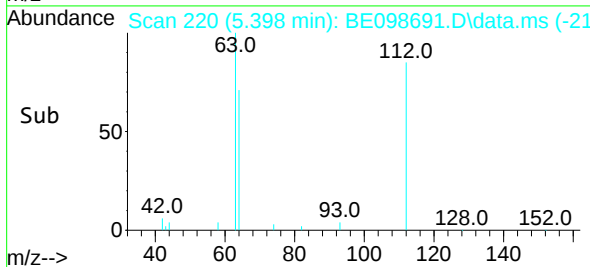
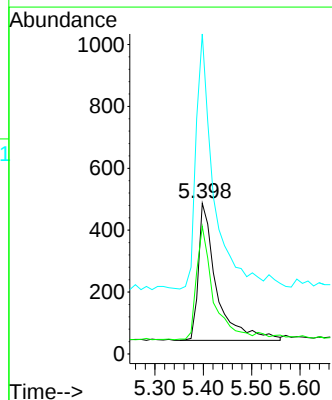
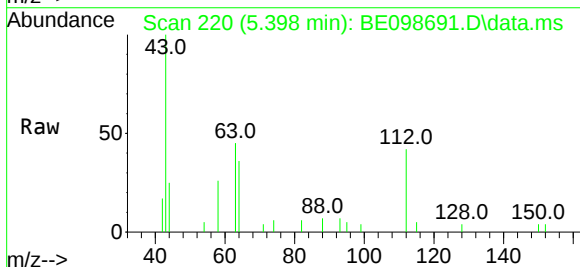
Instrument :  
BNA\_E  
ClientSampleId :  
SB-16(35.5-36)MSD

Tgt Ion: 42 Resp: 999  
Ion Ratio Lower Upper  
42 100  
74 76.5 58.9 88.3  
44 17.8 0.0 0.0#



#4  
2-Fluorophenol  
Concen: 0.37 ng  
RT: 5.398 min Scan# 220  
Delta R.T. -0.001 min  
Lab File: BE098691.D  
Acq: 1 Feb 2019 13:42

Tgt Ion: 112 Resp: 1158  
Ion Ratio Lower Upper  
112 100  
64 76.7 62.9 94.3  
63 180.3 152.2 228.4

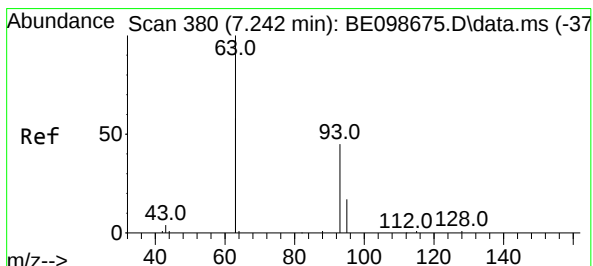
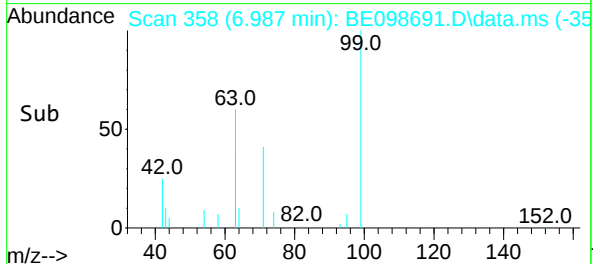
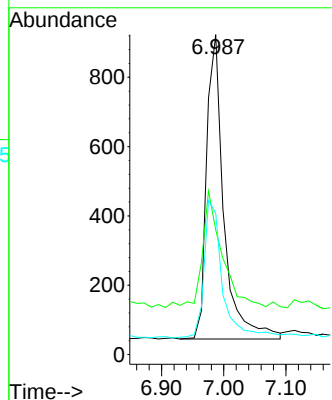
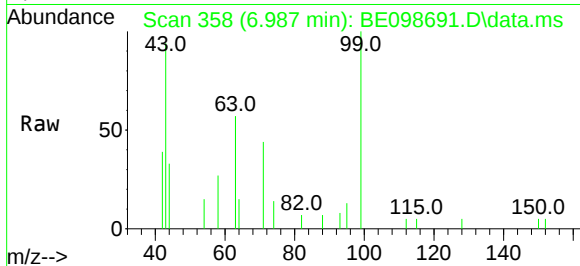




#5  
Phenol-d6  
Concen: 0.37 ng  
RT: 6.987 min Scan# 358  
Delta R.T. -0.013 min  
Lab File: BE098691.D  
Acq: 1 Feb 2019 13:42

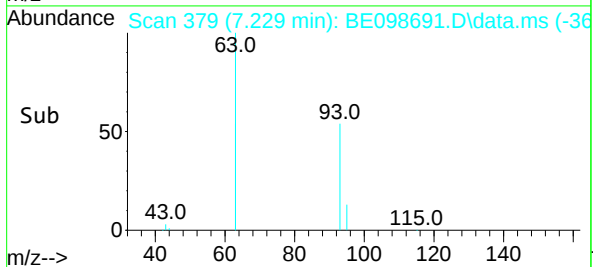
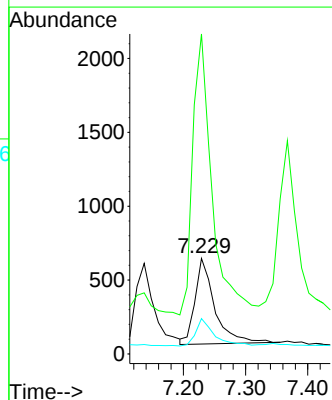
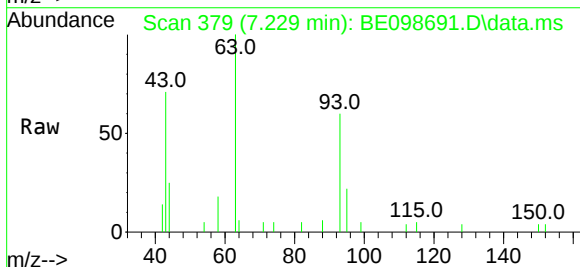
Instrument :  
BNA\_E  
ClientSampleId :  
SB-16(35.5-36)MSD

Tgt Ion: 99 Resp: 1693  
Ion Ratio Lower Upper  
99 100  
42 41.6 24.6 37.0#  
71 50.7 35.1 52.7



#6  
bis(2-Chloroethyl)ether  
Concen: 0.41 ng  
RT: 7.229 min Scan# 379  
Delta R.T. -0.013 min  
Lab File: BE098691.D  
Acq: 1 Feb 2019 13:42

Tgt Ion: 93 Resp: 1280  
Ion Ratio Lower Upper  
93 100  
63 311.8 267.3 400.9  
95 29.0 26.2 39.4

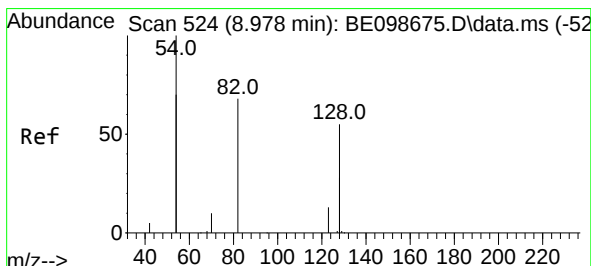
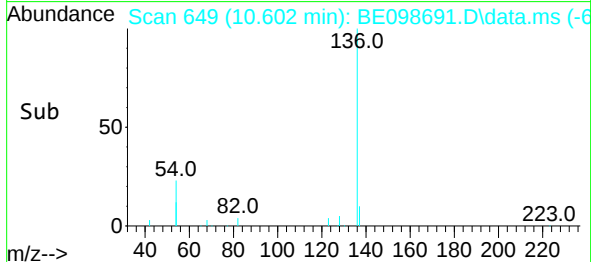
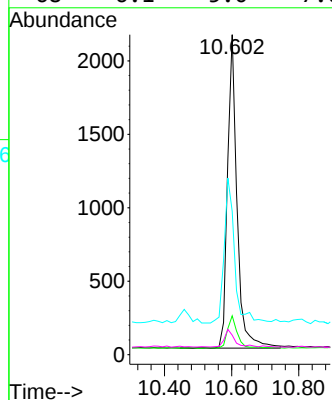
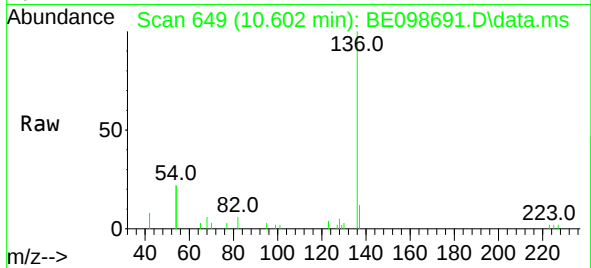




#7  
Naphthalene-d8  
Concen: 0.40 ng  
RT: 10.602 min Scan# 649  
Delta R.T. 0.001 min  
Lab File: BE098691.D  
Acq: 1 Feb 2019 13:42

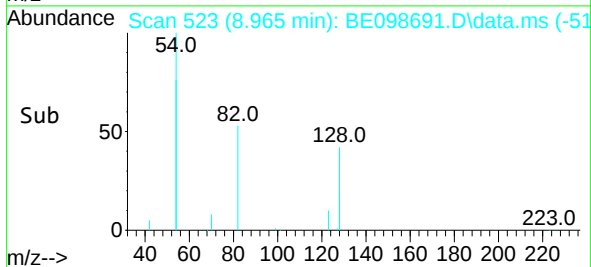
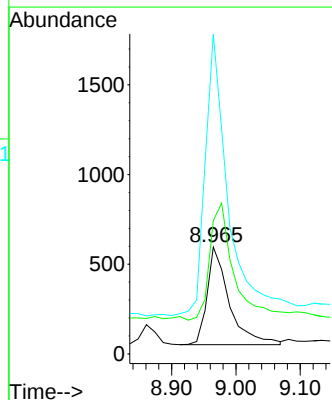
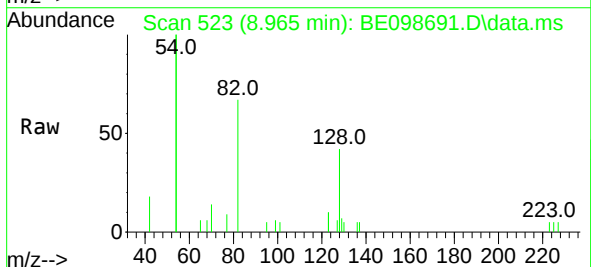
Instrument :  
BNA\_E  
ClientSampleId :  
SB-16(35.5-36)MSD

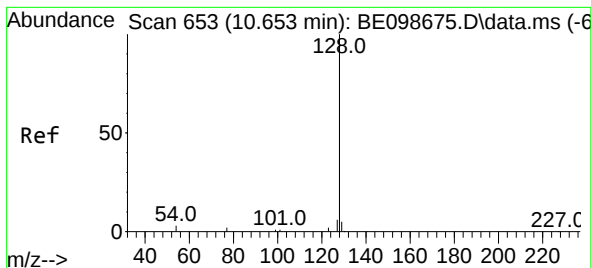
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|-----------|-------|-------|------|
| Tgt Ion:  | 136   | Resp: | 4211 |
| Ion Ratio | Lower | Upper |      |
| 136       | 100   |       |      |
| 137       | 12.2  | 9.7   | 14.5 |
| 54        | 44.8  | 35.5  | 53.3 |
| 68        | 6.1   | 5.0   | 7.6  |



#8  
Nitrobenzene-d5  
Concen: 0.33 ng  
RT: 8.965 min Scan# 523  
Delta R.T. -0.013 min  
Lab File: BE098691.D  
Acq: 1 Feb 2019 13:42

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 82    | Resp: | 1312  |
| Ion Ratio | Lower | Upper |       |
| 82        | 100   |       |       |
| 128       | 124.8 | 96.5  | 144.7 |
| 54        | 299.3 | 224.7 | 337.1 |

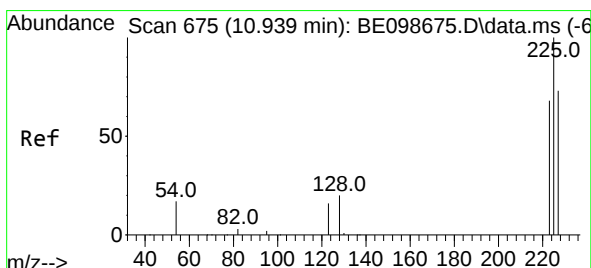
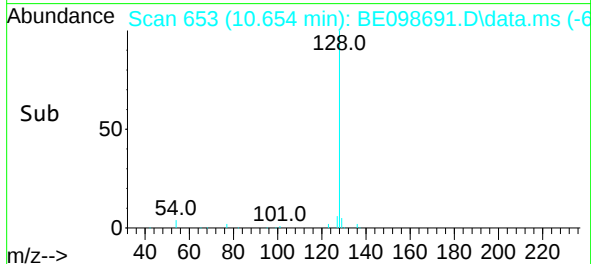
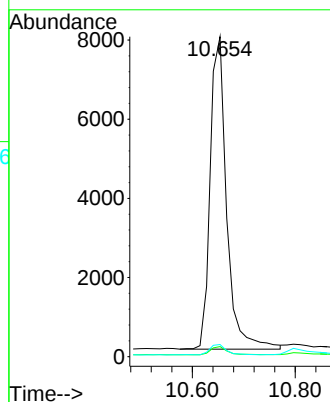
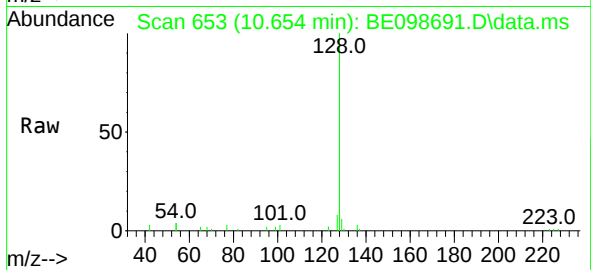




#9  
Naphthalene  
Concen: 0.36 ng  
RT: 10.654 min Scan# 653  
Delta R.T. 0.001 min  
Lab File: BE098691.D  
Acq: 1 Feb 2019 13:42

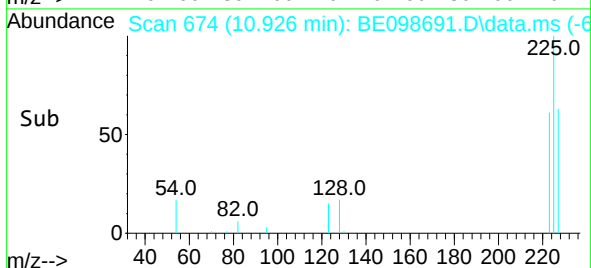
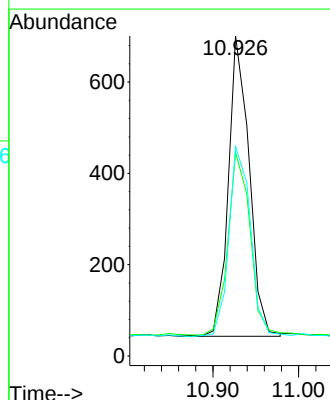
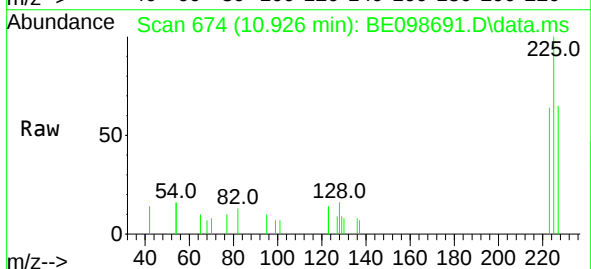
Instrument :  
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|             |       |         |
|-------------|-------|---------|
| Tgt Ion:128 | Resp: | 17521   |
| Ion Ratio   | Lower | Upper   |
| 128         | 100   |         |
| 129         | 3.2   | 2.6 3.8 |
| 127         | 3.8   | 3.0 4.6 |



#10  
Hexachlorobutadiene  
Concen: 0.34 ng  
RT: 10.926 min Scan# 674  
Delta R.T. -0.013 min  
Lab File: BE098691.D  
Acq: 1 Feb 2019 13:42

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:225 | Resp: | 1108      |
| Ion Ratio   | Lower | Upper     |
| 225         | 100   |           |
| 223         | 64.5  | 47.8 71.8 |
| 227         | 66.5  | 50.5 75.7 |

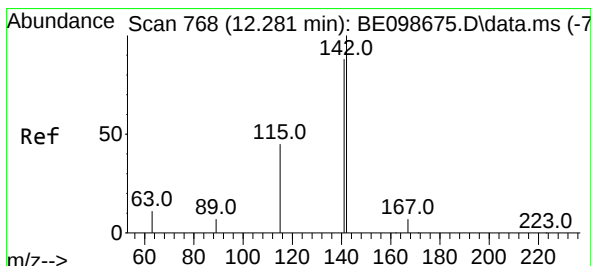
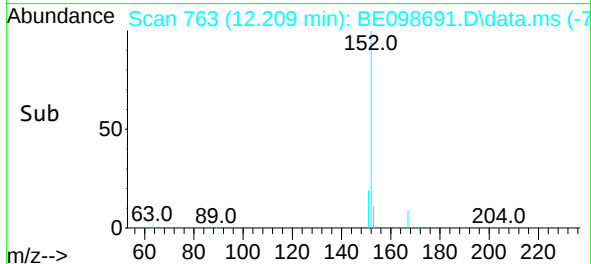
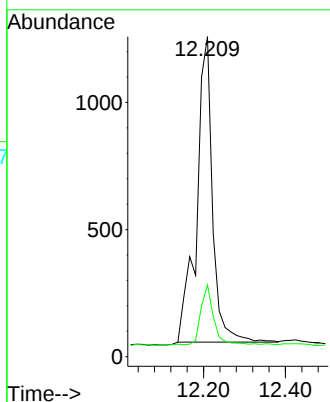
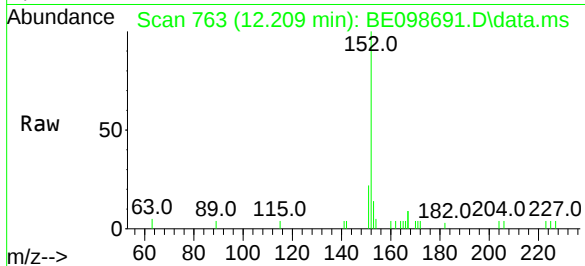




#11  
2-Methylnaphthalene-d10  
Concen: 0.40 ng  
RT: 12.209 min Scan# 763  
Delta R.T. 0.000 min  
Lab File: BE098691.D  
Acq: 1 Feb 2019 13:42

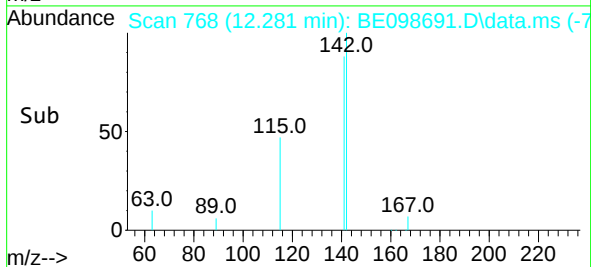
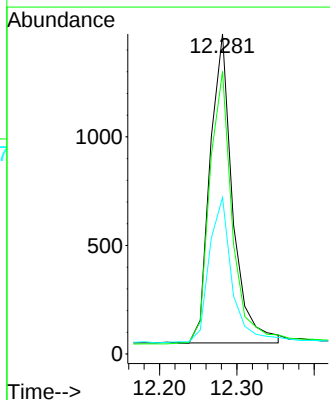
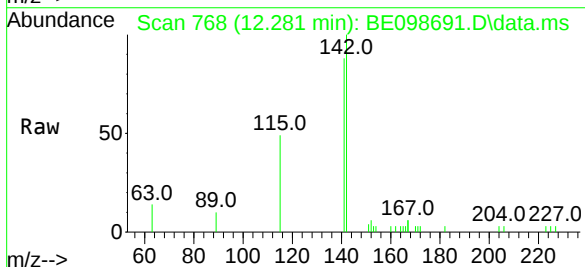
Instrument :  
BNA\_E  
ClientSampleId :  
SB-16(35.5-36)MSD

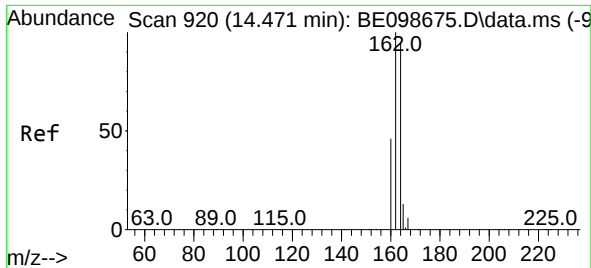
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Ion Ratio Lower Upper  
152 100  
151 15.8 16.2 24.4#



#12  
2-Methylnaphthalene  
Concen: 0.36 ng  
RT: 12.281 min Scan# 768  
Delta R.T. 0.000 min  
Lab File: BE098691.D  
Acq: 1 Feb 2019 13:42

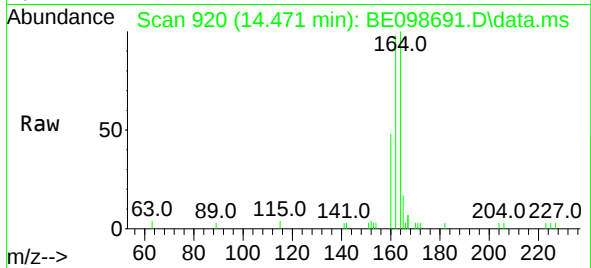
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Ion Ratio Lower Upper  
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141 88.3 70.0 105.0  
115 48.9 35.2 52.8



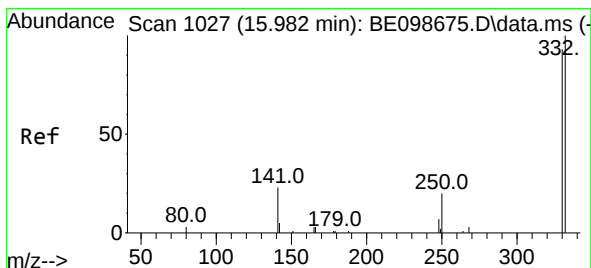
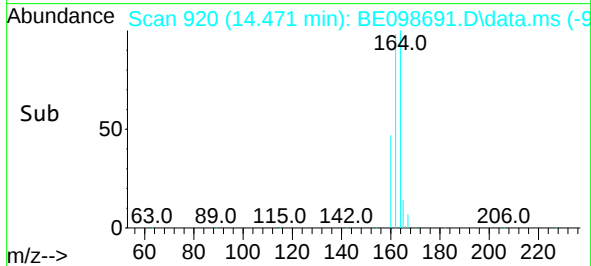
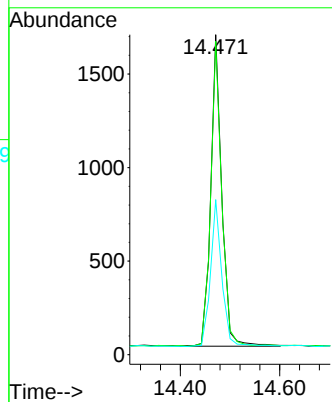


#13  
Acenaphthene-d10  
Concen: 0.40 ng  
RT: 14.471 min Scan# 920  
Delta R.T. 0.000 min  
Lab File: BE098691.D  
Acq: 1 Feb 2019 13:42

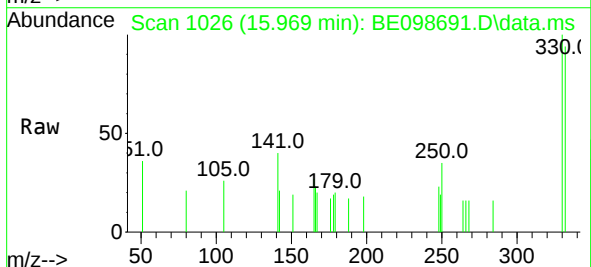
Instrument :  
BNA\_E  
ClientSampleId :  
SB-16(35.5-36)MSD



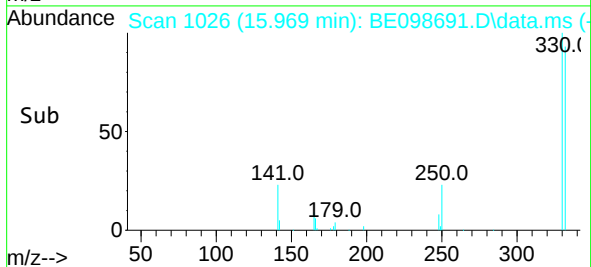
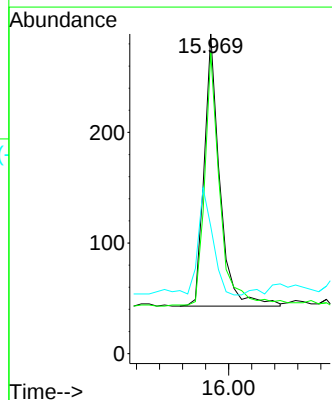
Tgt Ion:164 Resp: 2549  
Ion Ratio Lower Upper  
164 100  
162 97.9 80.5 120.7  
160 48.5 40.1 60.1

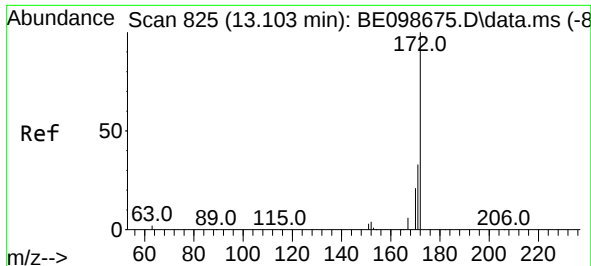


#14  
2,4,6-Tribromophenol  
Concen: 0.41 ng  
RT: 15.969 min Scan# 1026  
Delta R.T. -0.013 min  
Lab File: BE098691.D  
Acq: 1 Feb 2019 13:42



Tgt Ion:330 Resp: 464  
Ion Ratio Lower Upper  
330 100  
332 90.1 73.3 109.9  
141 36.2 33.1 49.7

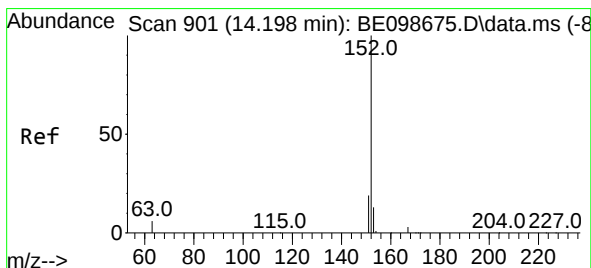
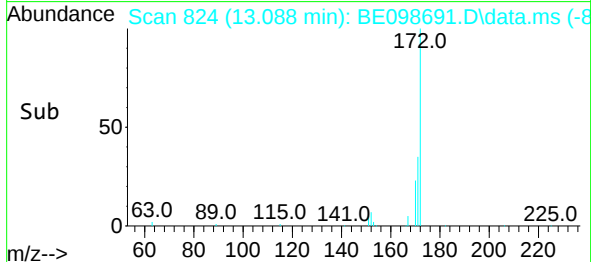
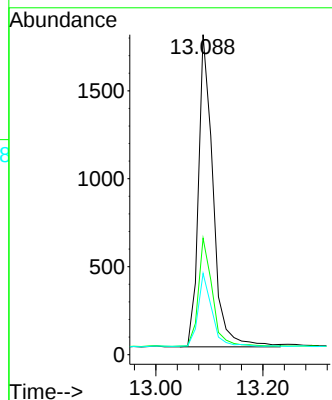
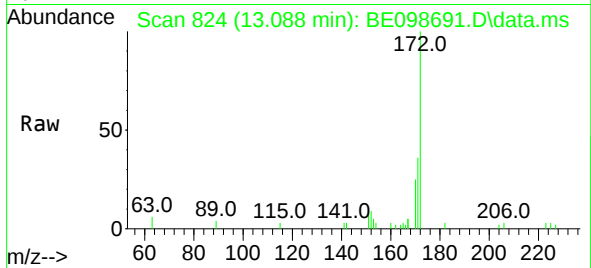




#15  
2-Fluorobiphenyl  
Concen: 0.31 ng  
RT: 13.088 min Scan# 824  
Delta R.T. -0.015 min  
Lab File: BE098691.D  
Acq: 1 Feb 2019 13:42

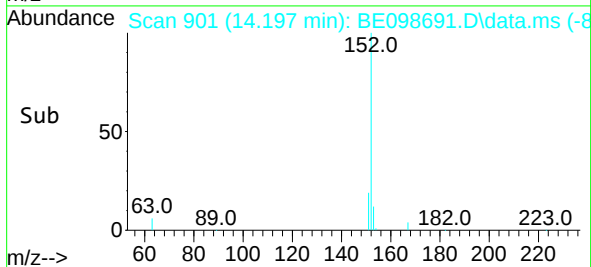
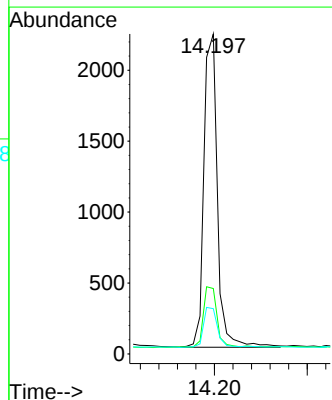
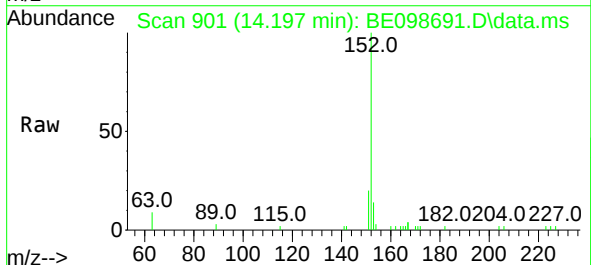
Instrument :  
BNA\_E  
ClientSampleId :  
SB-16(35.5-36)MSD

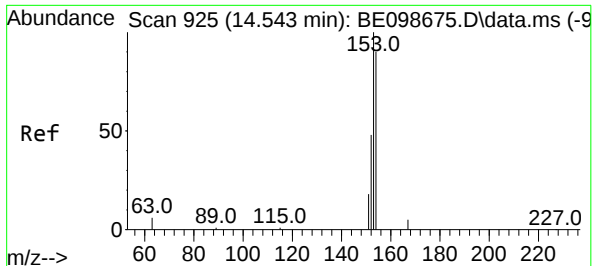
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:172 | Resp: | 3377      |
| Ion Ratio   | Lower | Upper     |
| 172         | 100   |           |
| 171         | 36.4  | 29.0 43.4 |
| 170         | 25.4  | 20.8 31.2 |



#16  
Acenaphthylene  
Concen: 0.34 ng  
RT: 14.197 min Scan# 901  
Delta R.T. -0.001 min  
Lab File: BE098691.D  
Acq: 1 Feb 2019 13:42

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:152 | Resp: | 4477      |
| Ion Ratio   | Lower | Upper     |
| 152         | 100   |           |
| 151         | 20.4  | 16.3 24.5 |
| 153         | 13.1  | 10.7 16.1 |





#17

Acenaphthene

Concen: 0.35 ng

RT: 14.529 min Scan# 924

Delta R.T. -0.014 min

Lab File: BE098691.D

Acq: 1 Feb 2019 13:42

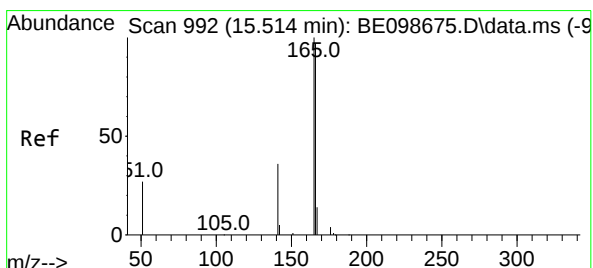
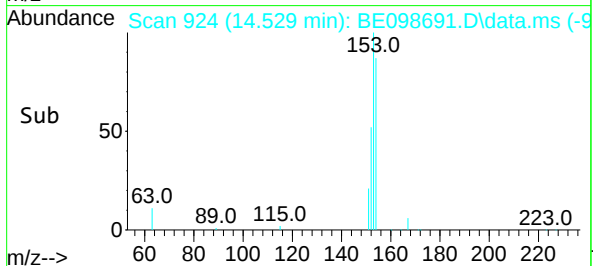
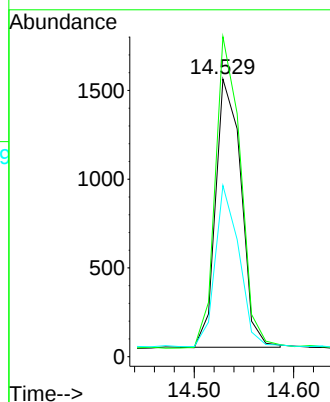
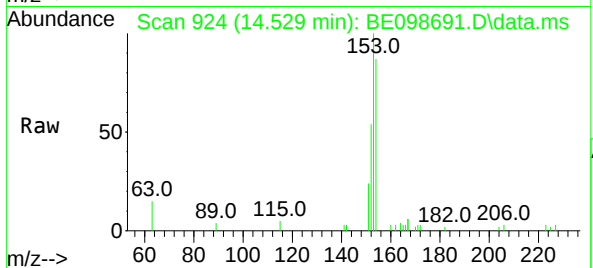
Instrument :

BNA\_E

ClientSampleId :

SB-16(35.5-36)MSD

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:154 | Resp: | 2688       |
| Ion Ratio   | Lower | Upper      |
| 154         | 100   |            |
| 153         | 115.4 | 93.9 140.9 |
| 152         | 56.3  | 45.8 68.8  |



#18

Fluorene

Concen: 0.34 ng

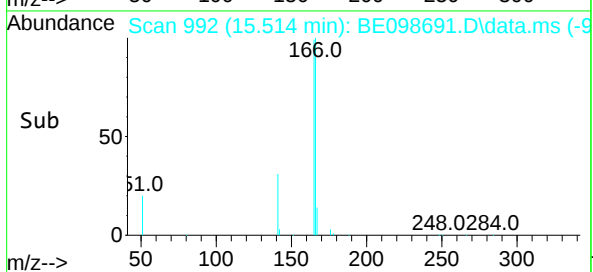
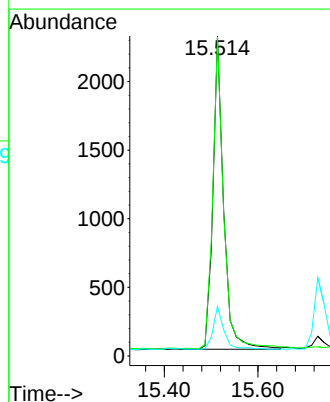
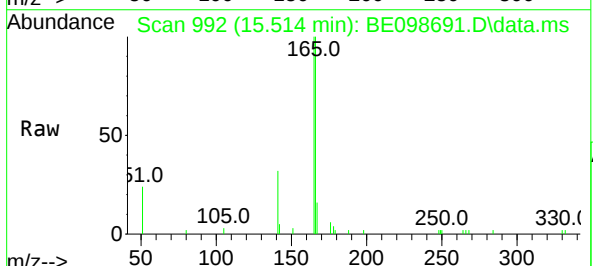
RT: 15.514 min Scan# 992

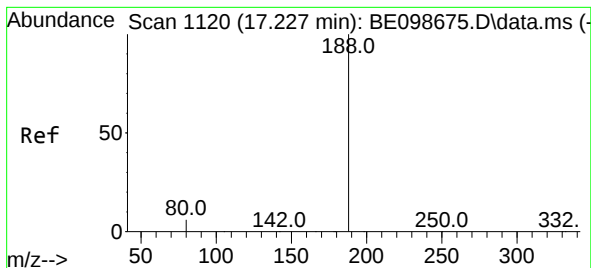
Delta R.T. -0.000 min

Lab File: BE098691.D

Acq: 1 Feb 2019 13:42

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:166 | Resp: | 3626       |
| Ion Ratio   | Lower | Upper      |
| 166         | 100   |            |
| 165         | 100.4 | 79.3 118.9 |
| 167         | 13.9  | 10.6 15.8  |

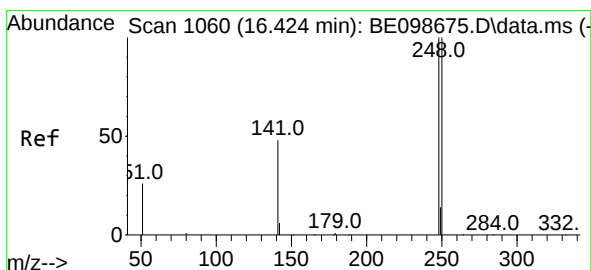
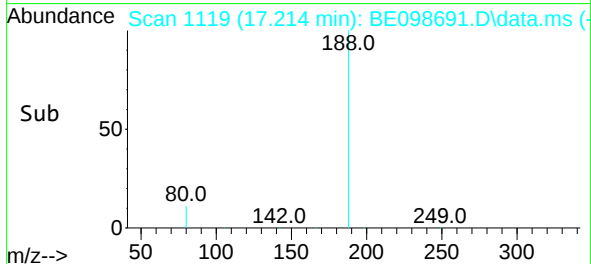
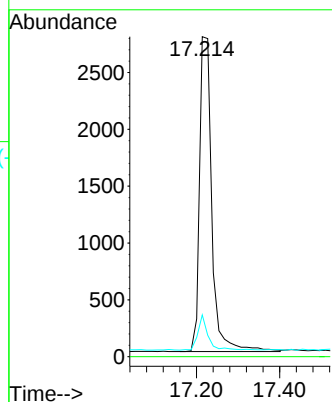
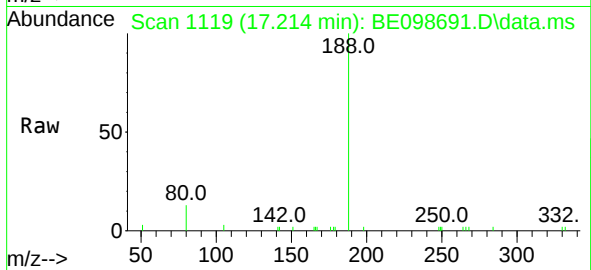




#19  
Phenanthrene-d10  
Concen: 0.40 ng  
RT: 17.214 min Scan# 1119  
Delta R.T. -0.013 min  
Lab File: BE098691.D  
Acq: 1 Feb 2019 13:42

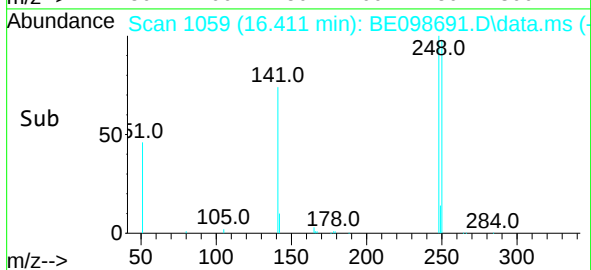
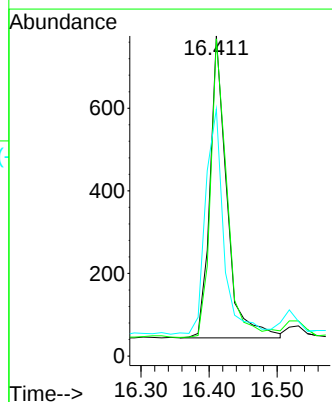
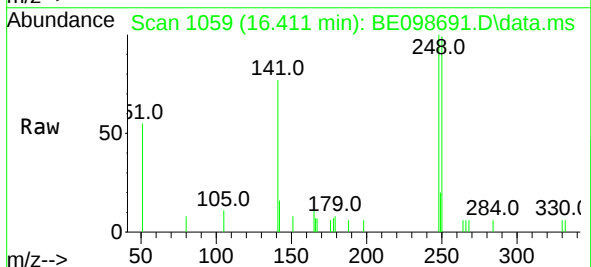
Instrument :  
BNA\_E  
ClientSampleId :  
SB-16(35.5-36)MSD

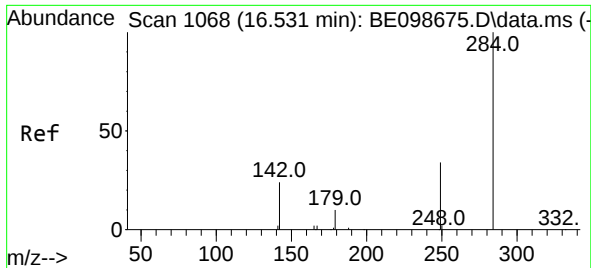
Tgt Ion:188 Resp: 5740  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 13.1 4.7 7.1#



#20  
4-Bromophenyl-phenylether  
Concen: 0.37 ng  
RT: 16.411 min Scan# 1059  
Delta R.T. -0.013 min  
Lab File: BE098691.D  
Acq: 1 Feb 2019 13:42

Tgt Ion:248 Resp: 1259  
Ion Ratio Lower Upper  
248 100  
250 99.1 80.2 120.4  
141 77.2 60.5 90.7

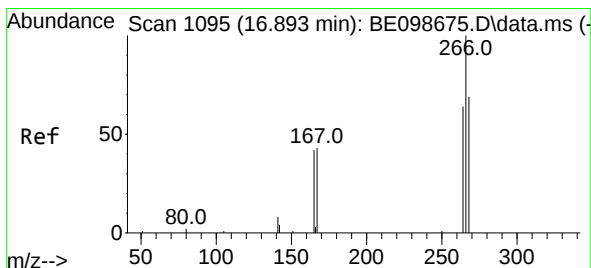
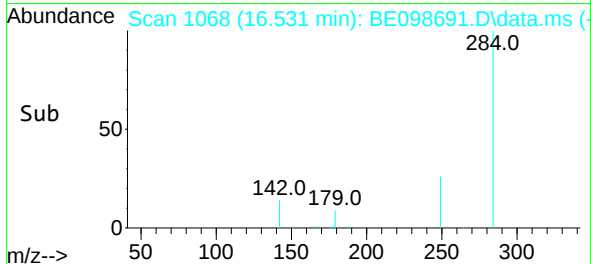
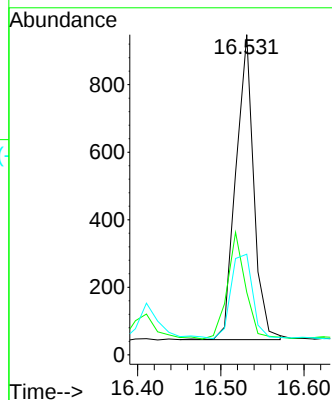
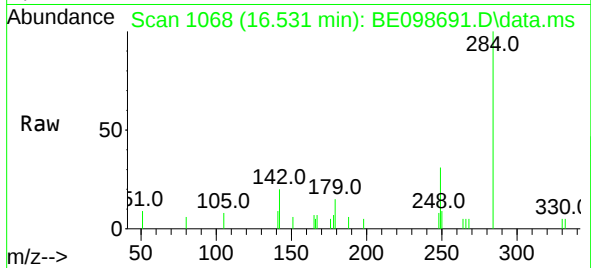




#21  
Hexachlorobenzene  
Concen: 0.34 ng  
RT: 16.531 min Scan# 1068  
Delta R.T. 0.000 min  
Lab File: BE098691.D  
Acq: 1 Feb 2019 13:42

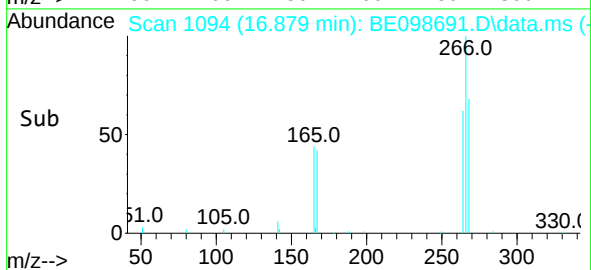
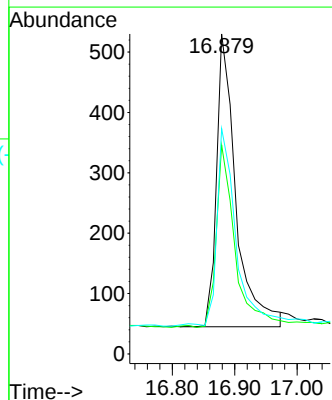
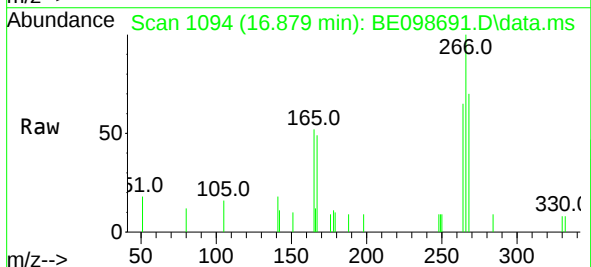
Instrument :  
BNA\_E  
ClientSampleId :  
SB-16(35.5-36)MSD

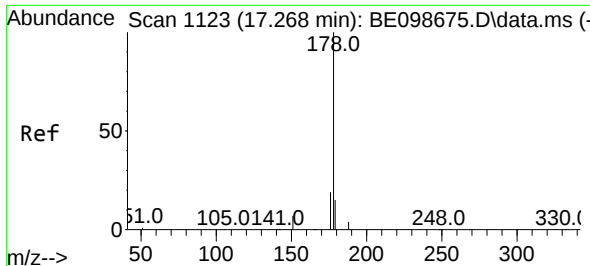
Tgt Ion:284 Resp: 1345  
Ion Ratio Lower Upper  
284 100  
142 35.6 25.5 38.3  
249 32.5 26.6 39.8



#22  
Pentachlorophenol  
Concen: 1.02 ng  
RT: 16.879 min Scan# 1094  
Delta R.T. -0.014 min  
Lab File: BE098691.D  
Acq: 1 Feb 2019 13:42

Tgt Ion:266 Resp: 1044  
Ion Ratio Lower Upper  
266 100  
264 65.3 53.7 80.5  
268 70.4 59.8 89.8

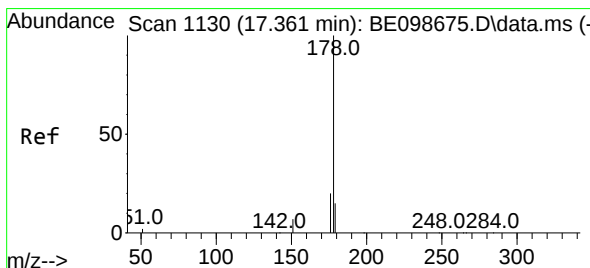
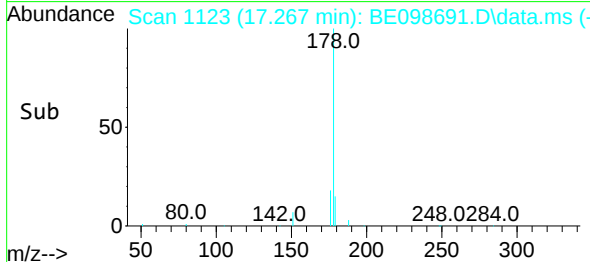
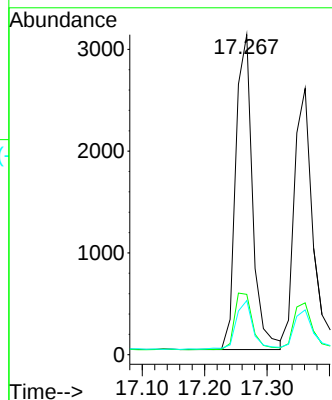
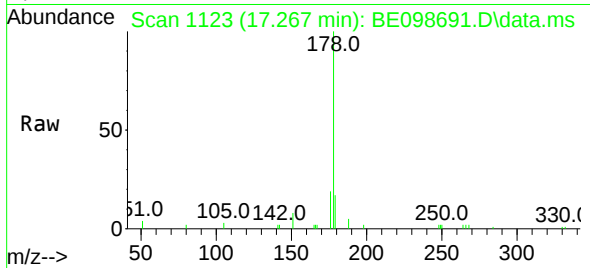




#23  
Phenanthrene  
Concen: 0.37 ng  
RT: 17.267 min Scan# 1123  
Delta R.T. -0.001 min  
Lab File: BE098691.D  
Acq: 1 Feb 2019 13:42

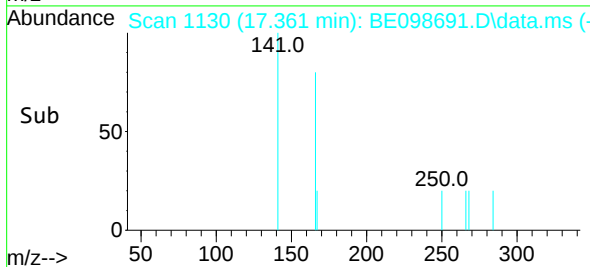
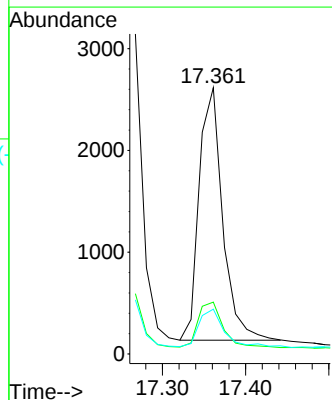
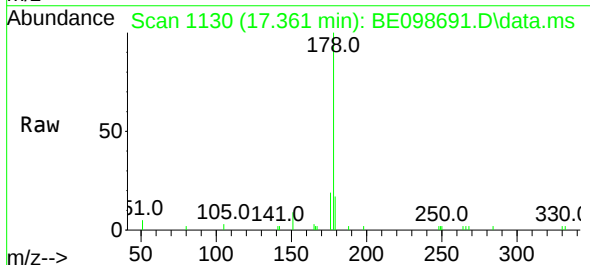
Instrument :  
BNA\_E  
ClientSampleId :  
SB-16(35.5-36)MSD

Tgt Ion:178 Resp: 5797  
Ion Ratio Lower Upper  
178 100  
176 19.5 15.9 23.9  
179 15.9 12.2 18.4



#24  
Anthracene  
Concen: 0.37 ng  
RT: 17.361 min Scan# 1130  
Delta R.T. 0.000 min  
Lab File: BE098691.D  
Acq: 1 Feb 2019 13:42

Tgt Ion:178 Resp: 4883  
Ion Ratio Lower Upper  
178 100  
176 19.0 14.9 22.3  
179 15.3 11.8 17.8

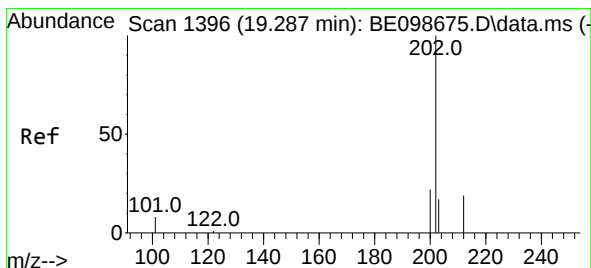
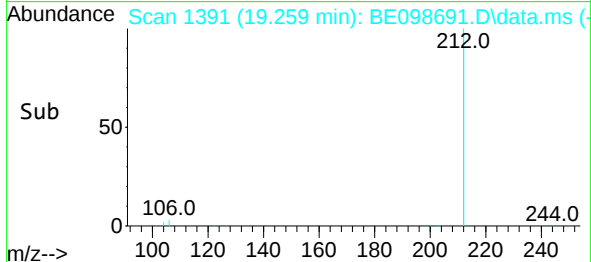
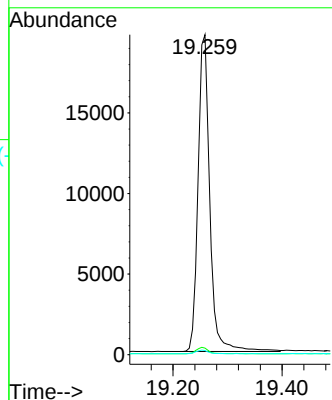
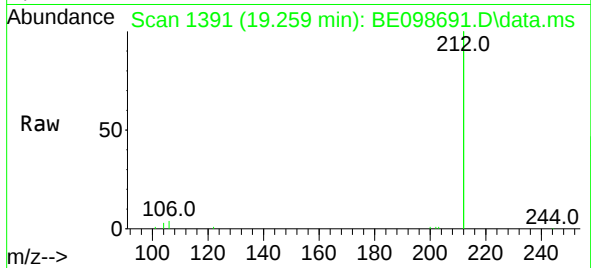




#25  
Fluoranthene-d10  
Concen: 0.36 ng  
RT: 19.259 min Scan# 1391  
Delta R.T. -0.000 min  
Lab File: BE098691.D  
Acq: 1 Feb 2019 13:42

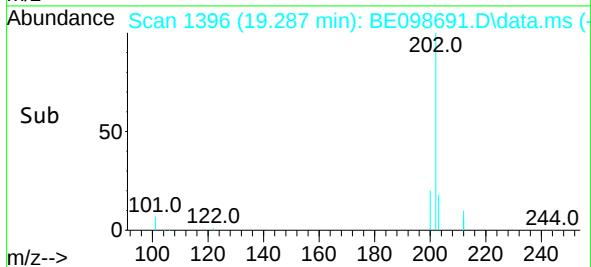
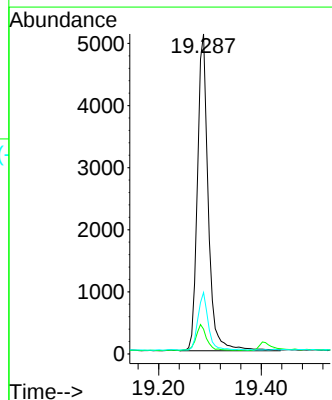
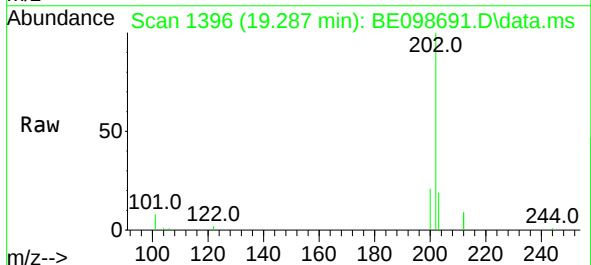
Instrument :  
BNA\_E  
ClientSampleId :  
SB-16(35.5-36)MSD

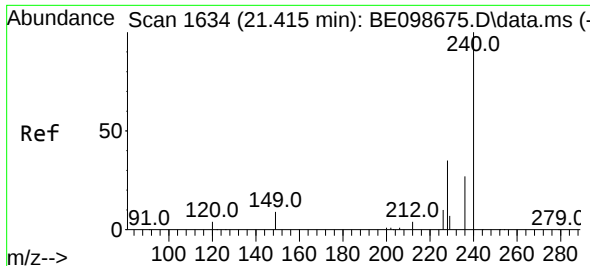
Tgt Ion:212 Resp: 29398  
Ion Ratio Lower Upper  
212 100  
106 2.1 1.7 2.5  
104 1.2 1.0 1.6



#26  
Fluoranthene  
Concen: 0.37 ng  
RT: 19.287 min Scan# 1396  
Delta R.T. 0.000 min  
Lab File: BE098691.D  
Acq: 1 Feb 2019 13:42

Tgt Ion:202 Resp: 7458  
Ion Ratio Lower Upper  
202 100  
101 7.9 6.7 10.1  
203 17.1 13.3 19.9

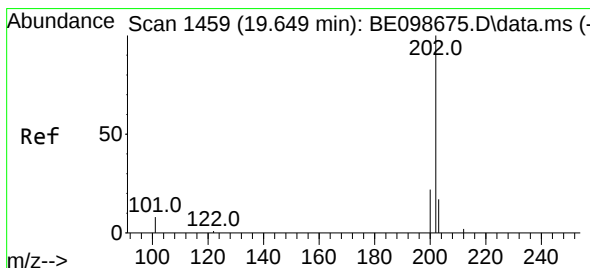
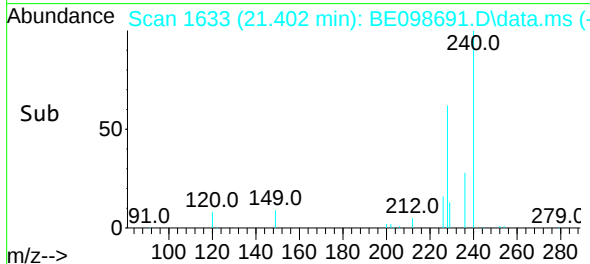
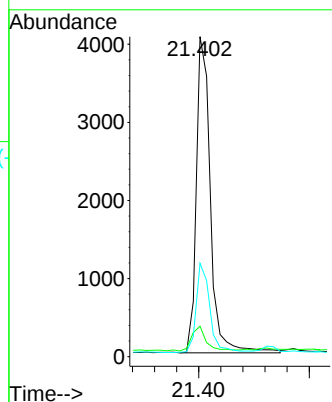
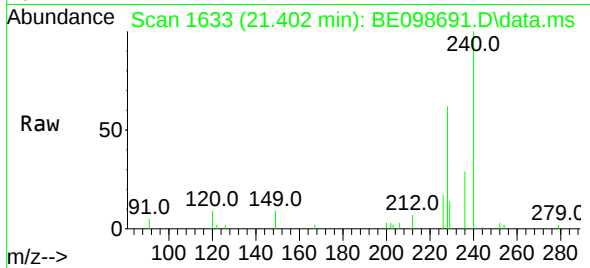




#27  
Chrysene-d12  
Concen: 0.40 ng  
RT: 21.402 min Scan# 1633  
Delta R.T. -0.013 min  
Lab File: BE098691.D  
Acq: 1 Feb 2019 13:42

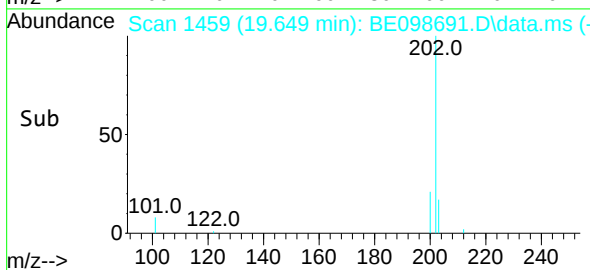
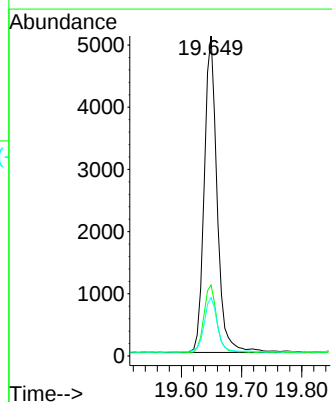
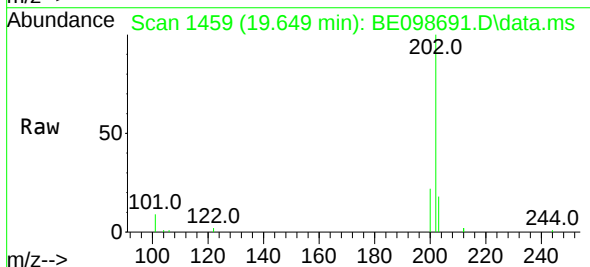
Instrument :  
BNA\_E  
ClientSampleId :  
SB-16(35.5-36)MSD

Tgt Ion:240 Resp: 7162  
Ion Ratio Lower Upper  
240 100  
120 9.5 4.7 7.1#  
236 29.2 21.9 32.9



#28  
Pyrene  
Concen: 0.33 ng  
RT: 19.649 min Scan# 1459  
Delta R.T. 0.000 min  
Lab File: BE098691.D  
Acq: 1 Feb 2019 13:42

Tgt Ion:202 Resp: 7557  
Ion Ratio Lower Upper  
202 100  
200 21.7 17.0 25.6  
203 17.7 13.8 20.8

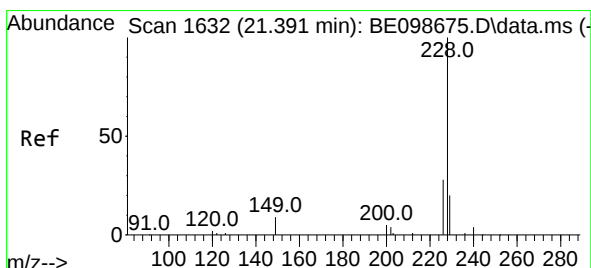
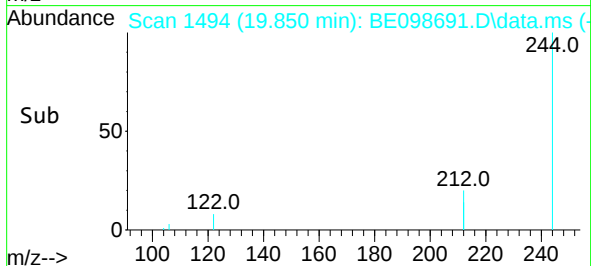
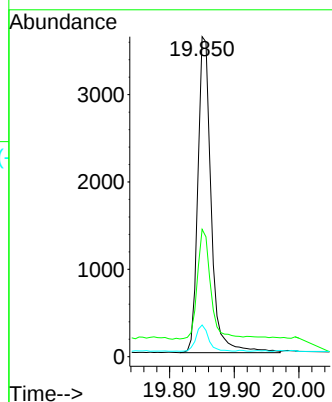
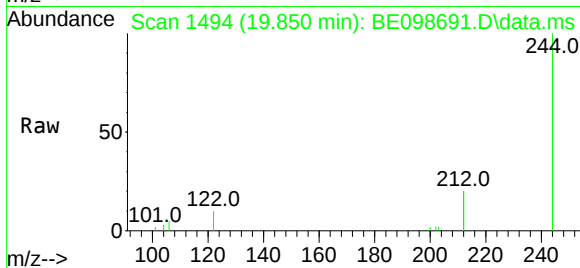




#29  
 Terphenyl-d14  
 Concen: 0.29 ng  
 RT: 19.850 min Scan# 1494  
 Delta R.T. -0.006 min  
 Lab File: BE098691.D  
 Acq: 1 Feb 2019 13:42

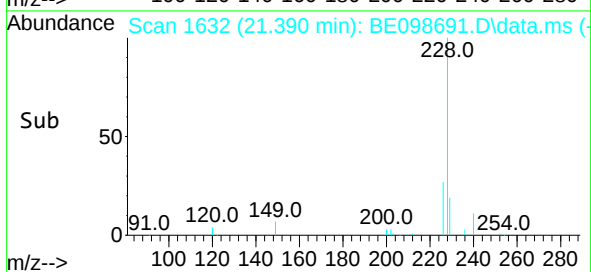
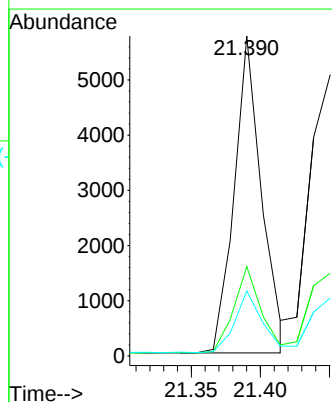
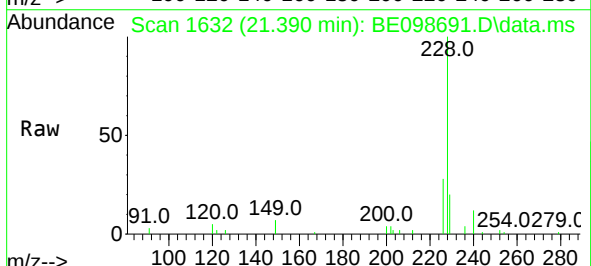
Instrument :  
 BNA\_E  
 ClientSampleId :  
 SB-16(35.5-36)MSD

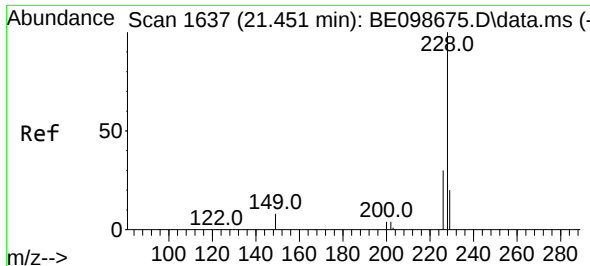
Tgt Ion:244 Resp: 5178  
 Ion Ratio Lower Upper  
 244 100  
 212 39.8 29.4 44.2  
 122 9.9 7.1 10.7



#30  
 Benzo(a)anthracene  
 Concen: 0.37 ng  
 RT: 21.390 min Scan# 1632  
 Delta R.T. -0.001 min  
 Lab File: BE098691.D  
 Acq: 1 Feb 2019 13:42

Tgt Ion:228 Resp: 7926  
 Ion Ratio Lower Upper  
 228 100  
 226 28.0 23.0 34.4  
 229 20.3 15.0 22.6

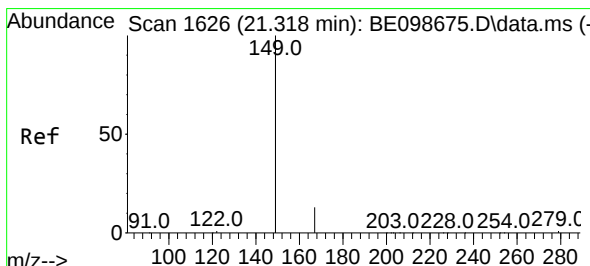
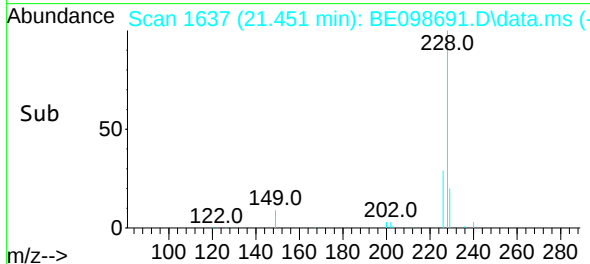
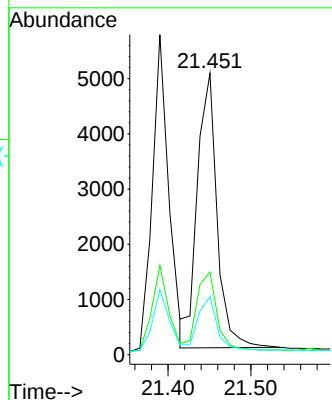
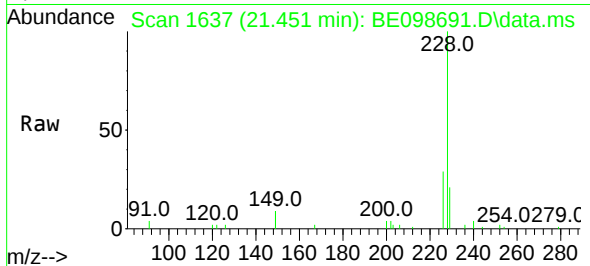




#31  
Chrysene  
Concen: 0.35 ng  
RT: 21.451 min Scan# 1637  
Delta R.T. -0.000 min  
Lab File: BE098691.D  
Acq: 1 Feb 2019 13:42

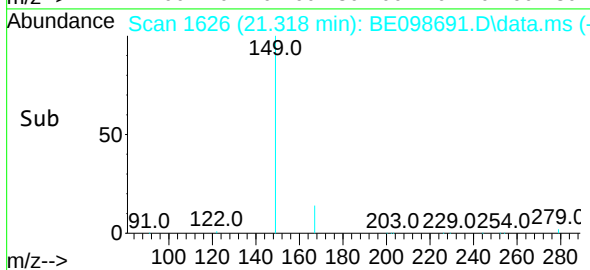
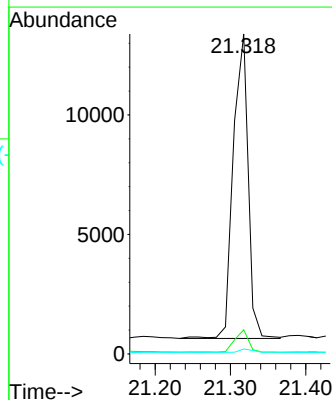
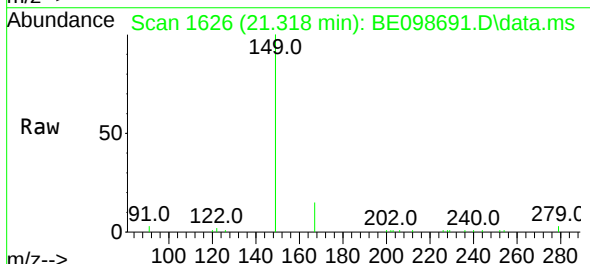
Instrument :  
BNA\_E  
ClientSampleId :  
SB-16(35.5-36)MSD

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 228   | Resp: | 8223 |
| Ion Ratio | Lower | Upper |      |
| 228       | 100   |       |      |
| 226       | 29.4  | 24.6  | 36.8 |
| 229       | 20.6  | 16.4  | 24.6 |



#32  
Bis(2-ethylhexyl)phthalate  
Concen: 0.43 ng  
RT: 21.318 min Scan# 1626  
Delta R.T. -0.000 min  
Lab File: BE098691.D  
Acq: 1 Feb 2019 13:42

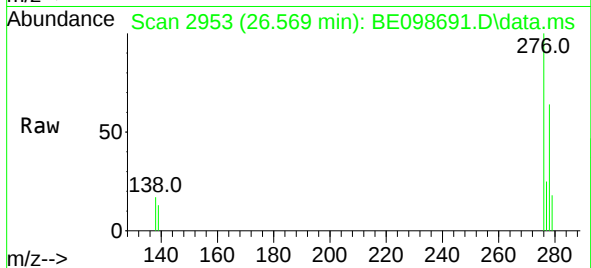
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 149   | Resp: | 17418 |
| Ion Ratio | Lower | Upper |       |
| 149       | 100   |       |       |
| 167       | 6.7   | 5.4   | 8.2   |
| 279       | 1.4   | 1.0   | 1.4   |



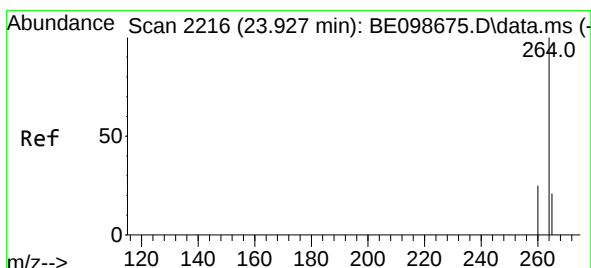
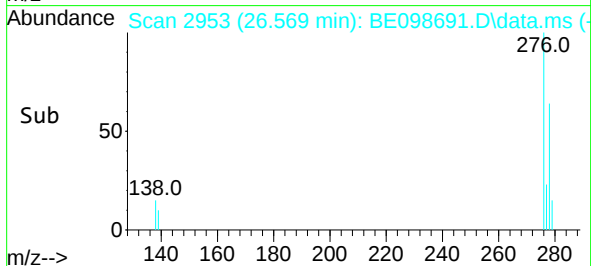
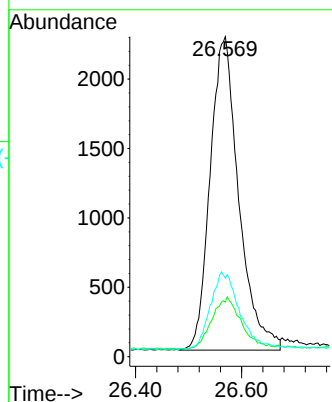


#33  
Indeno(1,2,3-cd)pyrene  
Concen: 0.34 ng  
RT: 26.569 min Scan# 2953  
Delta R.T. -0.007 min  
Lab File: BE098691.D  
Acq: 1 Feb 2019 13:42

Instrument :  
BNA\_E  
ClientSampleId :  
SB-16(35.5-36)MSD

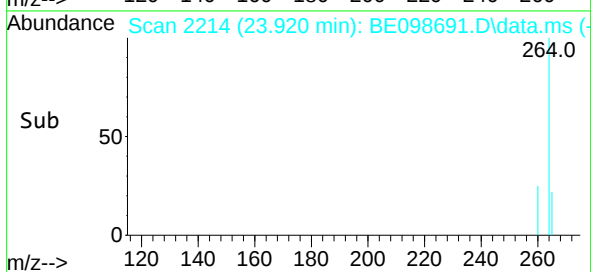
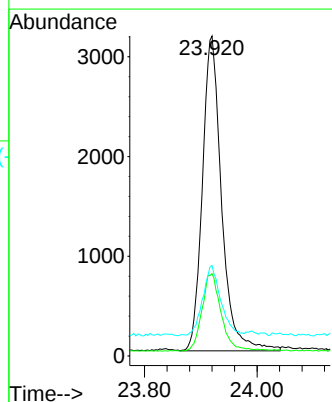
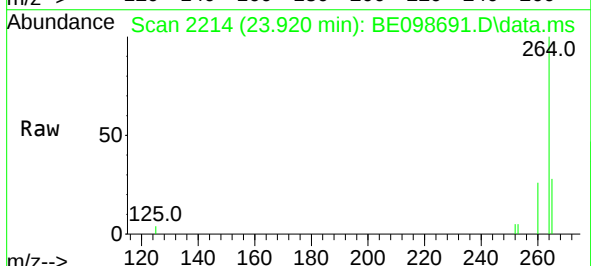


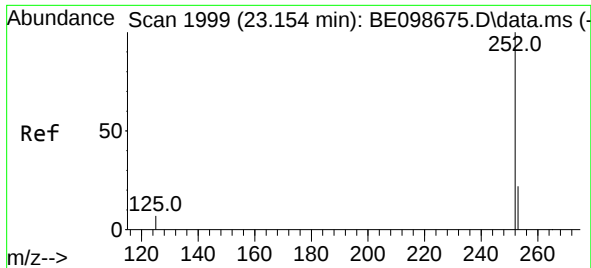
Tgt Ion:276 Resp: 8454  
Ion Ratio Lower Upper  
276 100  
138 17.0 13.3 19.9  
277 25.5 19.4 29.0



#34  
Perylene-d12  
Concen: 0.40 ng  
RT: 23.920 min Scan# 2214  
Delta R.T. -0.007 min  
Lab File: BE098691.D  
Acq: 1 Feb 2019 13:42

Tgt Ion:264 Resp: 7475  
Ion Ratio Lower Upper  
264 100  
260 25.7 20.5 30.7  
265 28.3 22.3 33.5

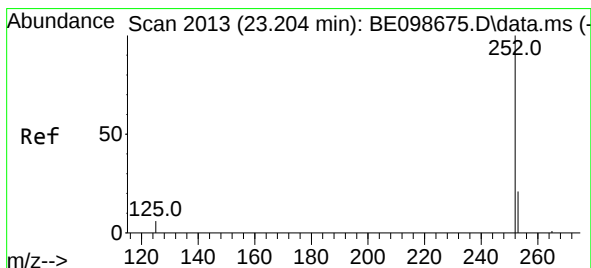
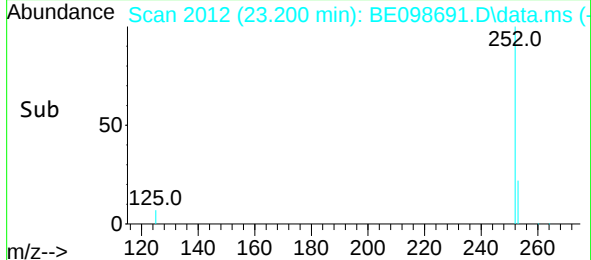
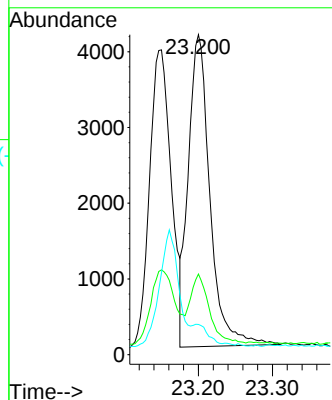
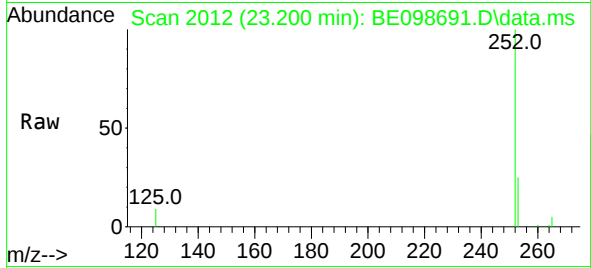




#35  
Benzo(b)fluoranthene  
Concen: 0.34 ng  
RT: 23.200 min Scan# 2012  
Delta R.T. 0.046 min  
Lab File: BE098691.D  
Acq: 1 Feb 2019 13:42

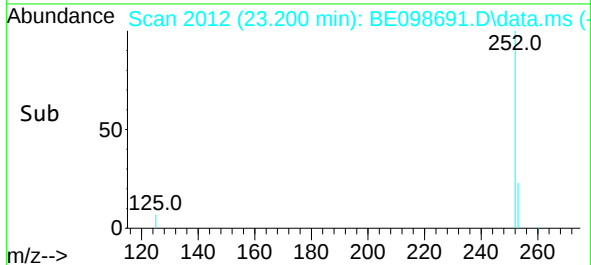
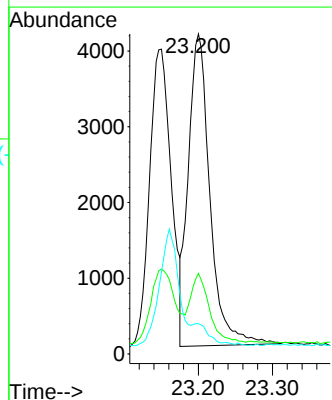
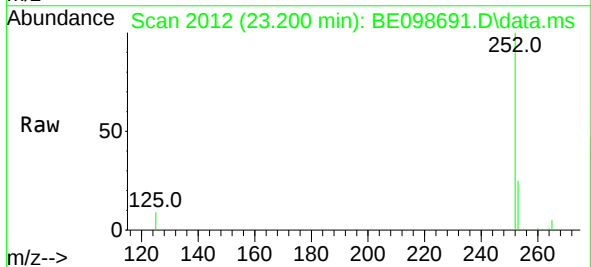
Instrument :  
BNA\_E  
ClientSampleId :  
SB-16(35.5-36)MSD

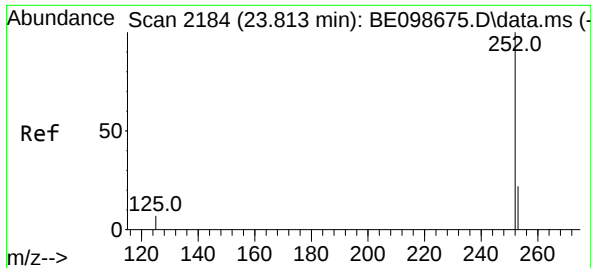
Tgt Ion:252 Resp: 8341  
Ion Ratio Lower Upper  
252 100  
253 25.2 19.4 29.0  
125 9.5 8.2 12.4



#36  
Benzo(k)fluoranthene  
Concen: 0.32 ng  
RT: 23.200 min Scan# 2012  
Delta R.T. -0.004 min  
Lab File: BE098691.D  
Acq: 1 Feb 2019 13:42

Tgt Ion:252 Resp: 8341  
Ion Ratio Lower Upper  
252 100  
253 25.2 19.0 28.4  
125 9.5 7.0 10.4

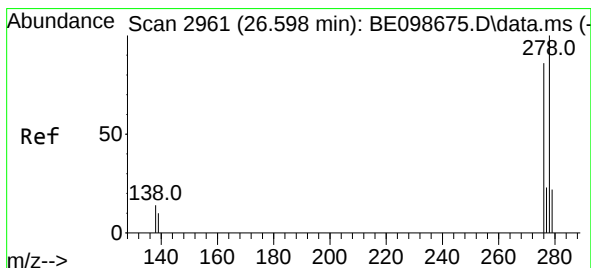
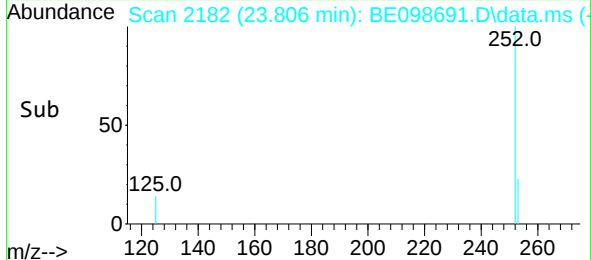
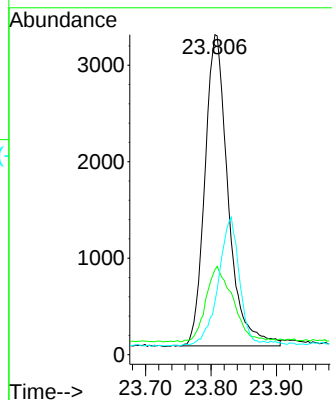
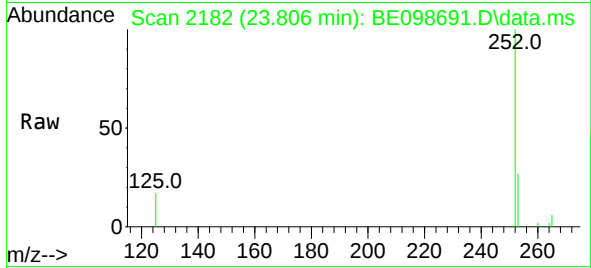




#37  
Benzo(a)pyrene  
Concen: 0.35 ng  
RT: 23.806 min Scan# 2182  
Delta R.T. -0.007 min  
Lab File: BE098691.D  
Acq: 1 Feb 2019 13:42

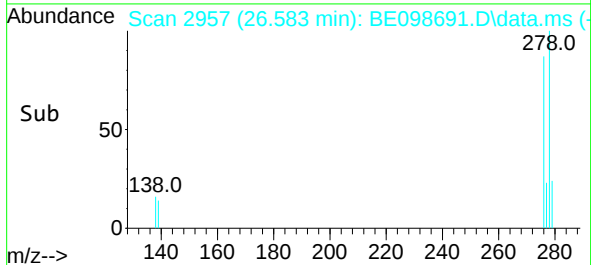
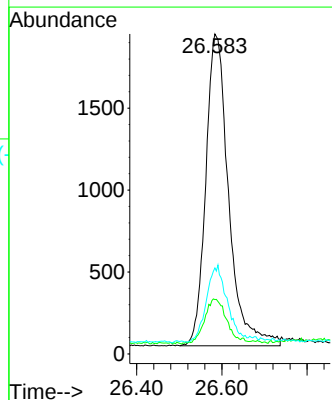
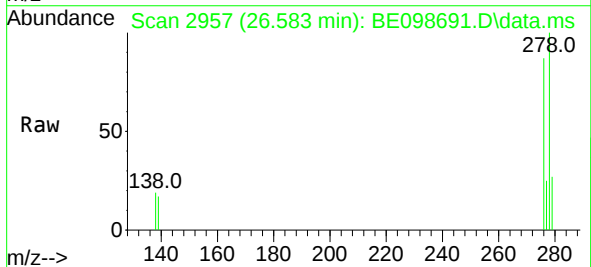
Instrument :  
BNA\_E  
ClientSampleId :  
SB-16(35.5-36)MSD

Tgt Ion:252 Resp: 7992  
Ion Ratio Lower Upper  
252 100  
253 26.5 21.0 31.4  
125 16.6 9.2 13.8#



#38  
Dibenzo(a,h)anthracene  
Concen: 0.33 ng  
RT: 26.583 min Scan# 2957  
Delta R.T. -0.014 min  
Lab File: BE098691.D  
Acq: 1 Feb 2019 13:42

Tgt Ion:278 Resp: 7107  
Ion Ratio Lower Upper  
278 100  
139 17.0 12.7 19.1  
279 26.9 22.0 33.0





#39

Benzo(g,h,i)perylene

Concen: 0.32 ng

RT: 27.379 min Scan# 3180

Delta R.T. -0.011 min

Lab File: BE098691.D

Acq: 1 Feb 2019 13:42

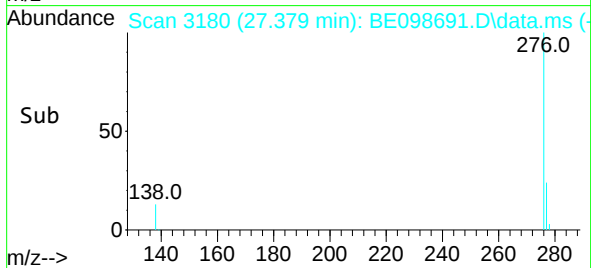
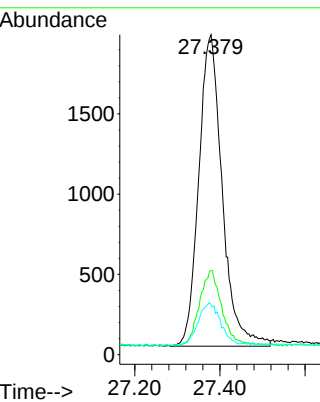
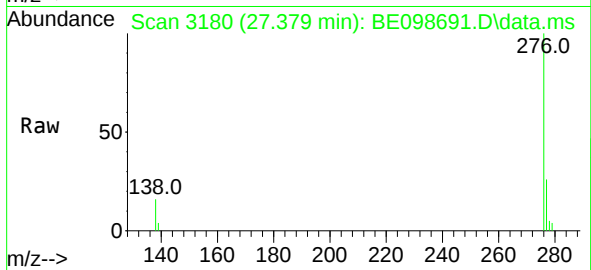
Tgt Ion: 276 Resp: 7426

Ion Ratio Lower Upper

276 100

277 26.3 20.3 30.5

138 15.5 13.3 19.9



Instrument :

BNA\_E

ClientSampleId :

SB-16(35.5-36)MSD