

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE121218\  
 Data File : BE098390.D  
 Acq On : 13 Dec 2018 10:47  
 Operator : SJ/JU  
 Sample : J6325-09MS  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 RE-131D1-20181205MS

Quant Time: Dec 13 11:22:54 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE121018.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Dec 10 14:59:55 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.86  | 152  | 1009     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.65 | 136  | 4117     | 0.40 | ng    | -0.01    |
| 13) Acenaphthene-d10      | 14.53 | 164  | 2536     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.27 | 188  | 6800     | 0.40 | ng    | -0.01    |
| 27) Chrysene-d12          | 21.46 | 240  | 8923     | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 24.00 | 264  | 8286     | 0.40 | ng    | -0.01    |

|                             |       |     |       |      |    |      |
|-----------------------------|-------|-----|-------|------|----|------|
| System Monitoring Compounds |       |     |       |      |    |      |
| 4) 2-Fluorophenol           | 5.46  | 112 | 529   | 0.22 | ng | 0.01 |
| 5) Phenol-d6                | 7.04  | 99  | 446   | 0.13 | ng | 0.00 |
| 8) Nitrobenzene-d5          | 9.03  | 82  | 1522  | 0.41 | ng | 0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.27 | 152 | 3554  | 0.53 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol    | 16.02 | 330 | 522   | 0.56 | ng | 0.00 |
| 15) 2-Fluorobiphenyl        | 13.15 | 172 | 4547  | 0.43 | ng | 0.00 |
| 25) Fluoranthene-d10        | 19.30 | 212 | 40596 | 0.47 | ng | 0.00 |
| 29) Terphenyl-d14           | 19.90 | 244 | 8019  | 0.37 | ng | 0.00 |

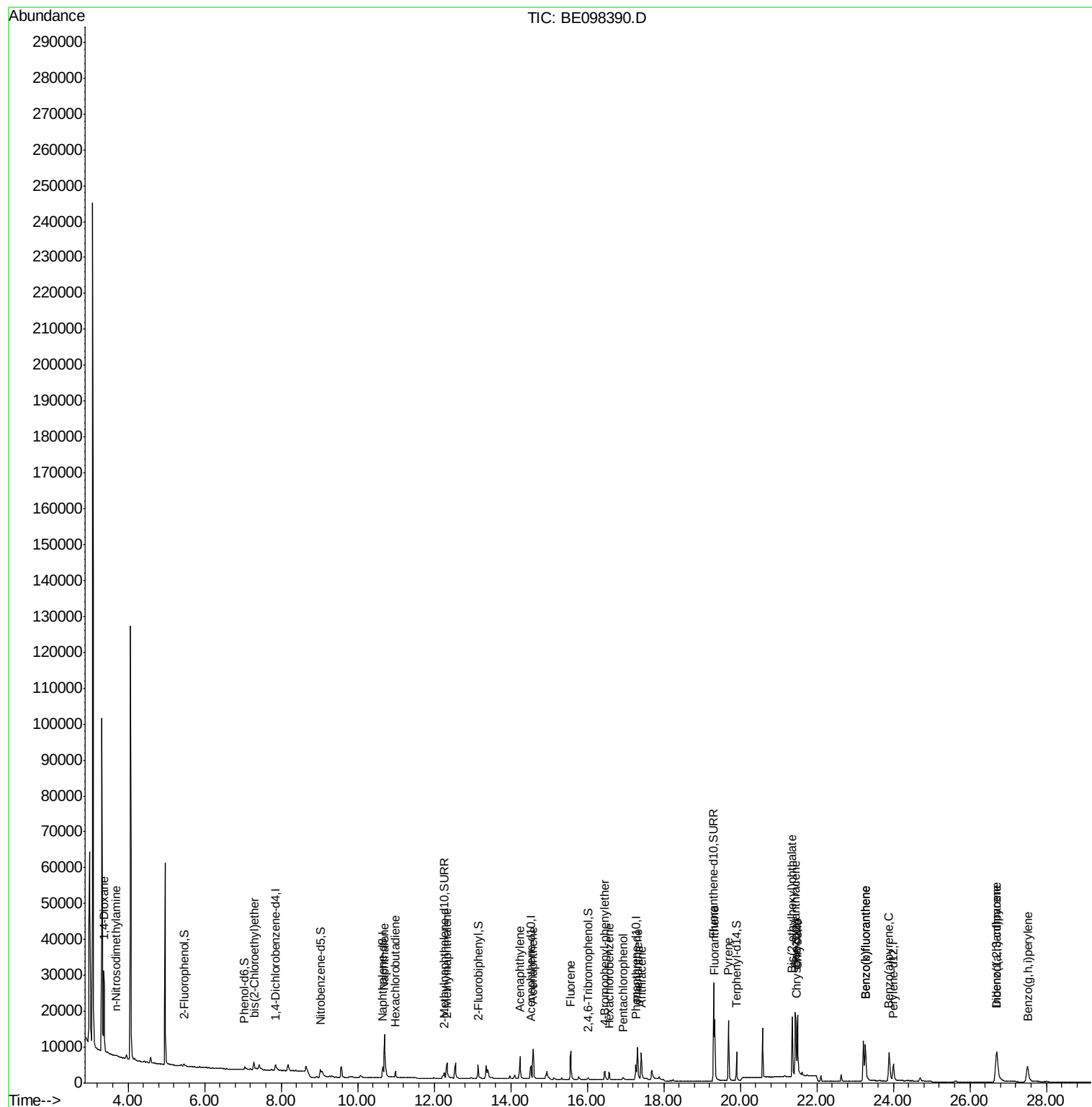
|                                |       |     |       |        |    |       |
|--------------------------------|-------|-----|-------|--------|----|-------|
| Target Compounds               |       |     |       | Qvalue |    |       |
| 2) 1,4-Dioxane                 | 3.37  | 88  | 12484 | 7.154  | ng | 99    |
| 3) n-Nitrosodimethylamine      | 3.69  | 42  | 276   | 0.176  | ng | # 100 |
| 6) bis(2-Chloroethyl)ether     | 7.29  | 93  | 1146  | 0.361  | ng | 77    |
| 9) Naphthalene                 | 10.71 | 128 | 22949 | 0.554  | ng | 100   |
| 10) Hexachlorobutadiene        | 10.99 | 225 | 1109  | 0.420  | ng | 99    |
| 12) 2-Methylnaphthalene        | 12.34 | 142 | 3852  | 0.572  | ng | 96    |
| 16) Acenaphthylene             | 14.24 | 152 | 7266  | 0.612  | ng | 98    |
| 17) Acenaphthene               | 14.59 | 154 | 4152  | 0.582  | ng | 96    |
| 18) Fluorene                   | 15.57 | 166 | 6228  | 0.652  | ng | 99    |
| 20) 4-Bromophenyl-phenylether  | 16.46 | 248 | 1715  | 0.469  | ng | # 84  |
| 21) Hexachlorobenzene          | 16.58 | 284 | 1747  | 0.444  | ng | 96    |
| 22) Pentachlorophenol          | 16.93 | 266 | 536   | 0.754  | ng | 89    |
| 23) Phenanthrene               | 17.31 | 178 | 11204 | 0.678  | ng | 100   |
| 24) Anthracene                 | 17.41 | 178 | 9638  | 0.654  | ng | 99    |
| 26) Fluoranthene               | 19.33 | 202 | 16174 | 0.740  | ng | 99    |
| 28) Pyrene                     | 19.69 | 202 | 16644 | 0.594  | ng | 99    |
| 30) Benzo(a)anthracene         | 21.44 | 228 | 17090 | 0.673  | ng | 100   |
| 31) Chrysene                   | 21.50 | 228 | 16858 | 0.633  | ng | 100   |
| 32) Bis(2-ethylhexyl)phthalate | 21.35 | 149 | 24056 | 0.466  | ng | 99    |
| 33) Indeno(1,2,3-cd)pyrene     | 26.69 | 276 | 16098 | 0.608  | ng | 99    |
| 35) Benzo(b)fluoranthene       | 23.27 | 252 | 18298 | 0.808  | ng | 95    |
| 36) Benzo(k)fluoranthene       | 23.27 | 252 | 18959 | 0.718  | ng | 97    |
| 37) Benzo(a)pyrene             | 23.89 | 252 | 16161 | 0.691  | ng | 97    |
| 38) Dibenzo(a,h)anthracene     | 26.71 | 278 | 13594 | 0.617  | ng | 99    |
| 39) Benzo(g,h,i)perylene       | 27.50 | 276 | 13089 | 0.590  | ng | 97    |

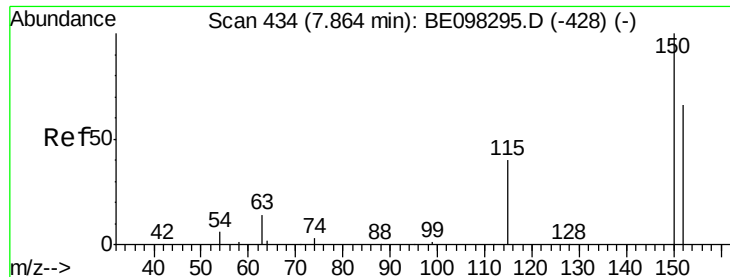
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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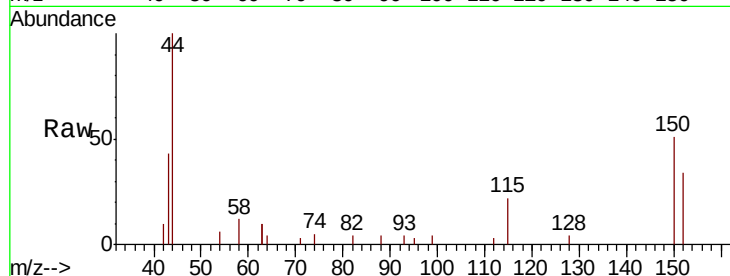


#1

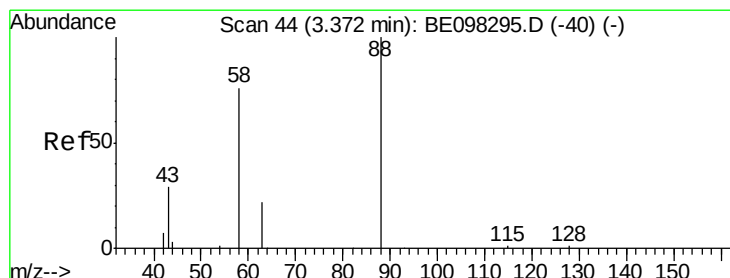
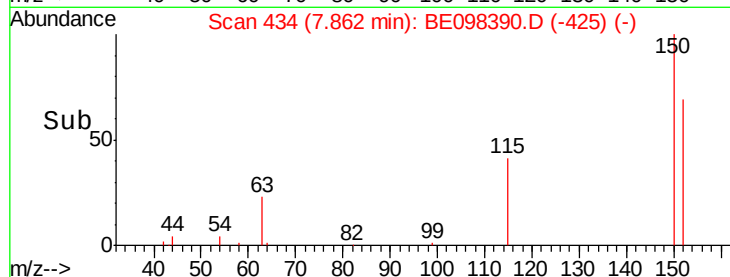
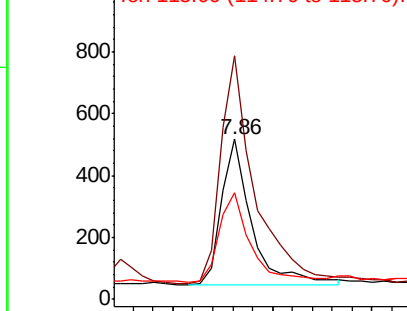
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.86 min Scan# 434  
Delta R.T. -0.00 min  
Lab File: BE098390.D  
Acq: 13 Dec 2018 10:47

Instrument :  
BNA\_E  
ClientSampleId :  
RE-131D1-20181205MS

Tot Ion:152 Resp: 1009  
Ion Ratio Lower Upper  
152 100  
150 151.9 124.2 186.4  
115 66.2 53.9 80.9



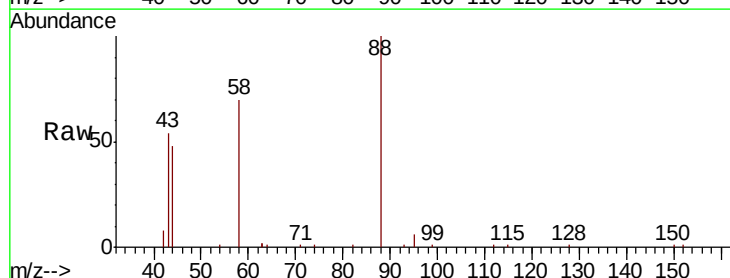
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



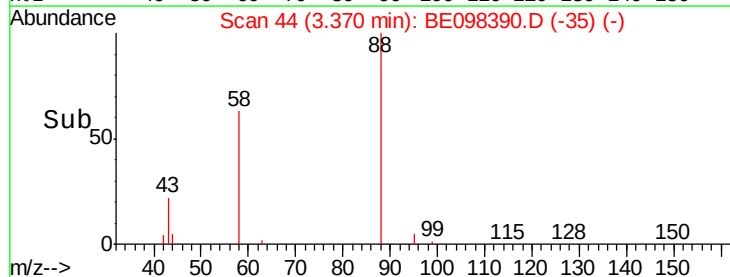
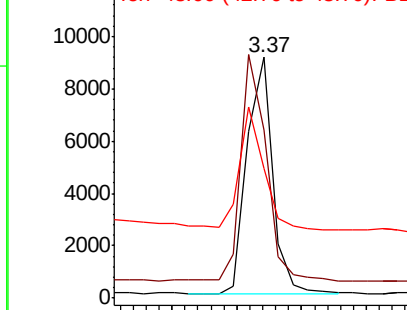
#2

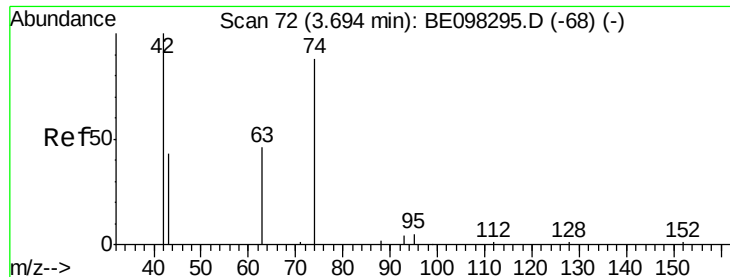
1,4-Dioxane  
Concen: 7.154 ng  
RT: 3.37 min Scan# 44  
Delta R.T. -0.00 min  
Lab File: BE098390.D  
Acq: 13 Dec 2018 10:47

Tgt Ion: 88 Resp: 12484  
Ion Ratio Lower Upper  
88 100  
58 93.4 75.0 112.6  
43 48.8 38.3 57.5



Abundance Ion 88.00 (87.70 to 88.70): BE0  
Ion 58.00 (57.70 to 58.70): BE0  
Ion 43.00 (42.70 to 43.70): BE0



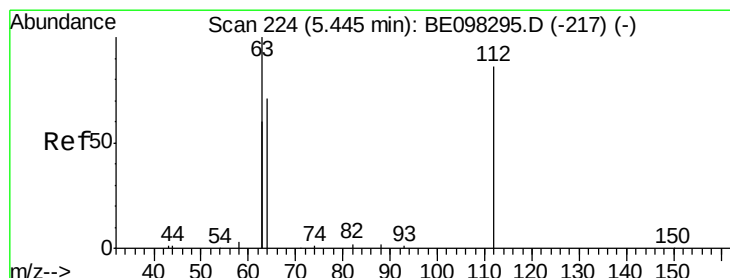
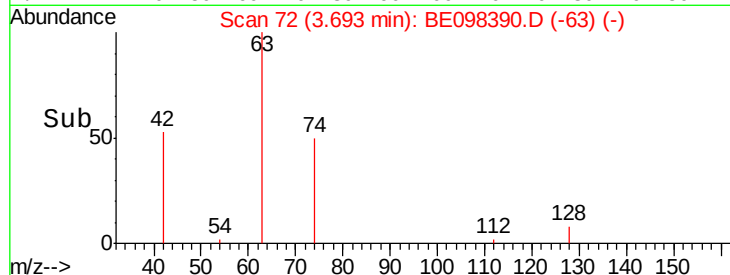
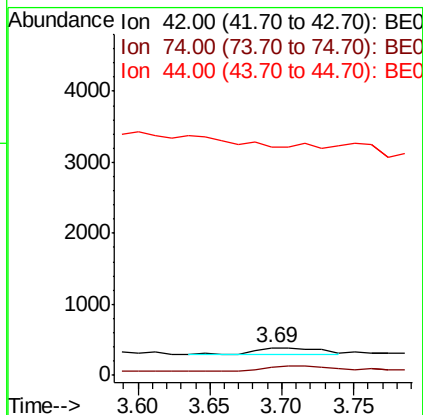
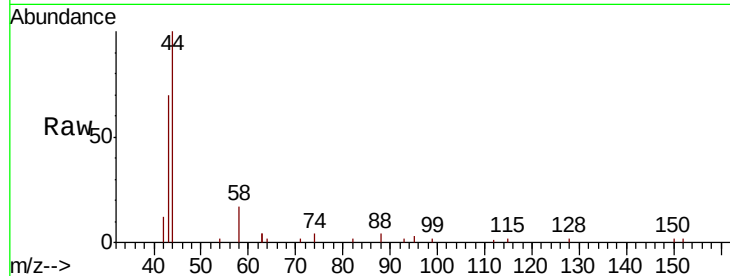


#3

n-Nitrosodimethylamine  
 Concen: 0.176 ng  
 RT: 3.69 min Scan# 72  
 Delta R.T. -0.00 min  
 Lab File: BE098390.D  
 Acq: 13 Dec 2018 10:47

Instrument :  
 BNA\_E  
 ClientSampleId :  
 RE-131D1-20181205MS

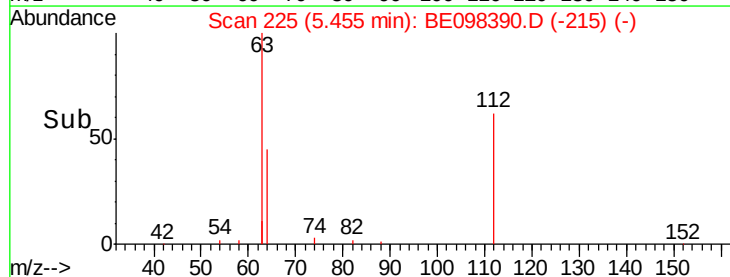
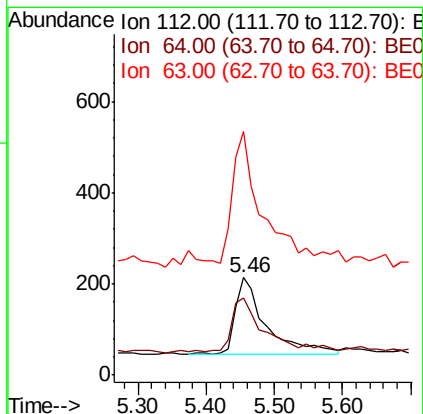
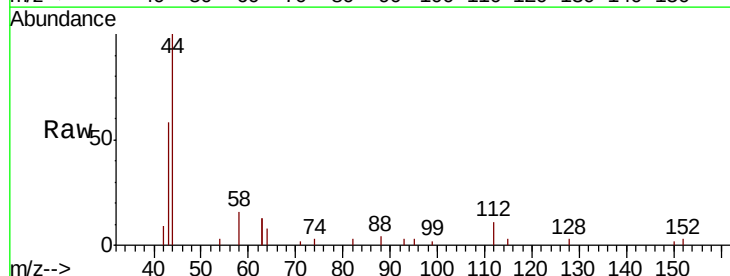
Tot Ion: 42 Resp: 276  
 Ion Ratio Lower Upper  
 42 100  
 74 88.8 0.0 0.0#  
 44 0.0 0.0 0.0

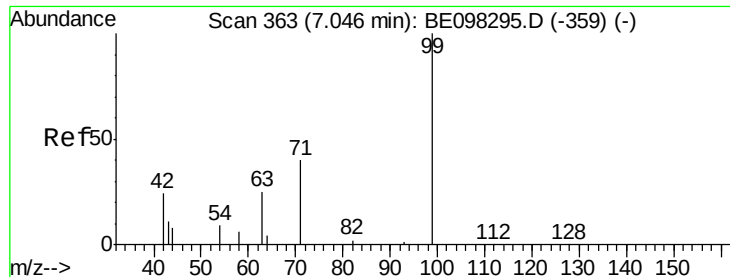


#4

2-Fluorophenol  
 Concen: 0.224 ng  
 RT: 5.46 min Scan# 225  
 Delta R.T. 0.01 min  
 Lab File: BE098390.D  
 Acq: 13 Dec 2018 10:47

Tgt Ion: 112 Resp: 529  
 Ion Ratio Lower Upper  
 112 100  
 64 68.1 59.8 89.8  
 63 166.7 133.7 200.5





#5

Phenol-d6

Concen: 0.133 ng

RT: 7.04 min Scan# 363

Delta R.T. -0.00 min

Lab File: BE098390.D

Acq: 13 Dec 2018 10:47

Instrument :

BNA\_E

ClientSampleId :

RE-131D1-20181205MS

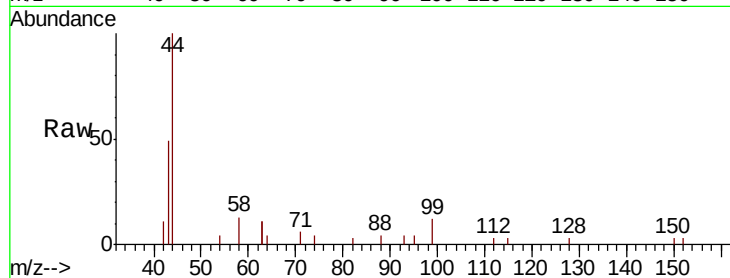
Tot Ion: 99 Resp: 446

Ion Ratio Lower Upper

99 100

42 65.9 26.3 39.5#

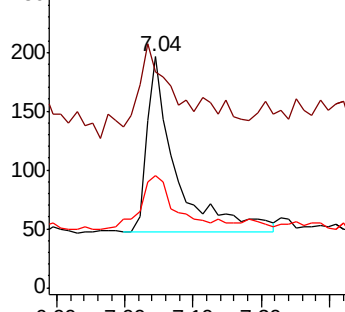
71 36.8 33.6 50.4



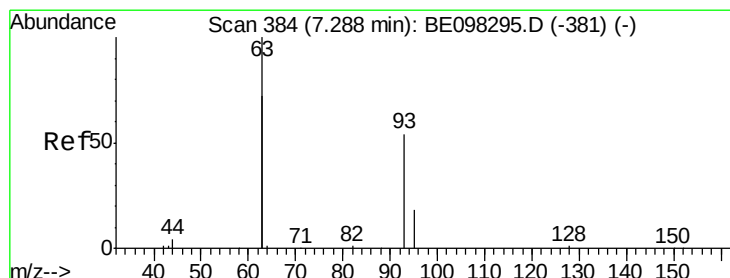
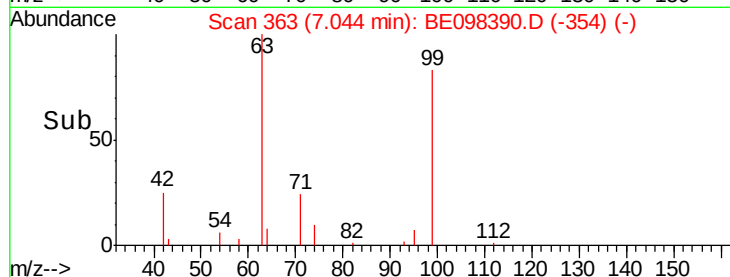
Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



Time-->



#6

bis(2-Chloroethyl)ether

Concen: 0.361 ng

RT: 7.29 min Scan# 384

Delta R.T. -0.00 min

Lab File: BE098390.D

Acq: 13 Dec 2018 10:47

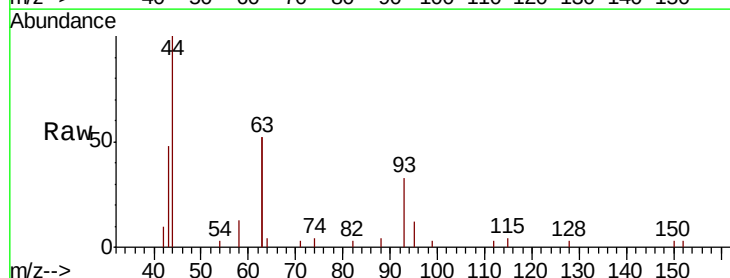
Tgt Ion: 93 Resp: 1146

Ion Ratio Lower Upper

93 100

63 382.3 264.4 396.6

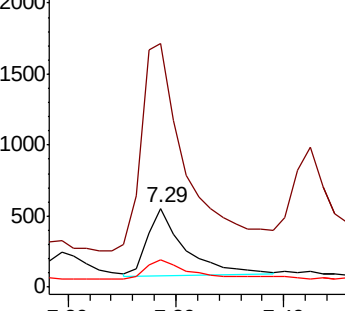
95 36.9 26.6 40.0



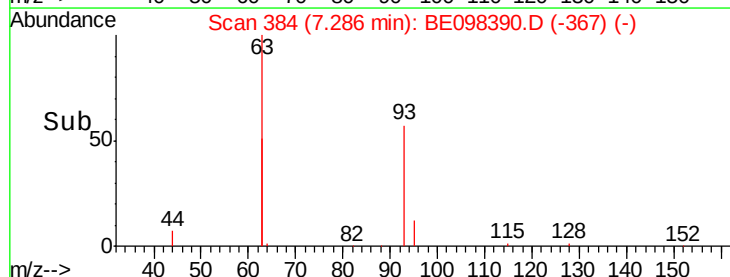
Abundance Ion 93.00 (92.70 to 93.70): BE0

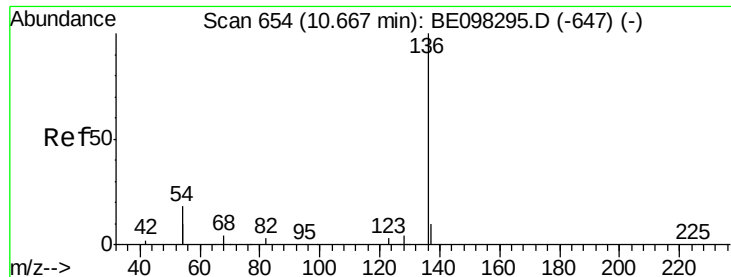
Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0



Time-->





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.65 min Scan# 653

Delta R.T. -0.01 min

Lab File: BE098390.D

Acq: 13 Dec 2018 10:47

Instrument :

BNA\_E

ClientSampleId :

RE-131D1-20181205MS

Tot Ion:136 Resp: 4117

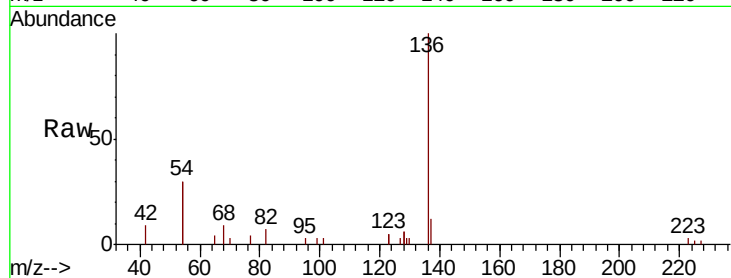
Ion Ratio Lower Upper

136 100

137 12.3 9.2 13.8

54 59.7 28.4 42.6#

68 9.1 5.4 8.0#

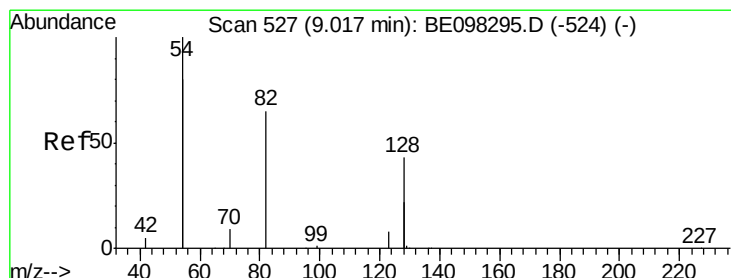
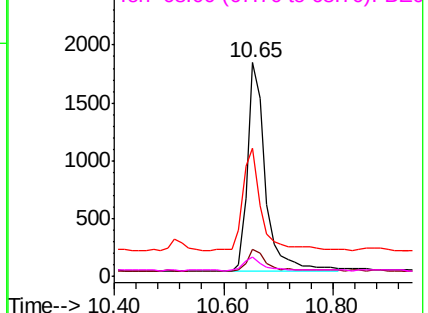
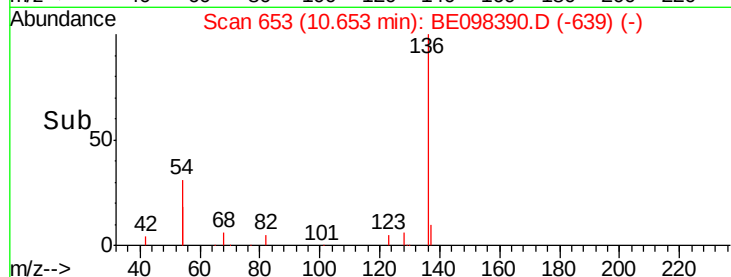


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



#8

Nitrobenzene-d5

Concen: 0.406 ng

RT: 9.03 min Scan# 528

Delta R.T. 0.01 min

Lab File: BE098390.D

Acq: 13 Dec 2018 10:47

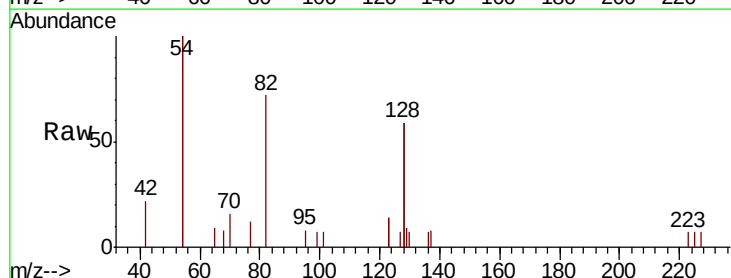
Tgt Ion: 82 Resp: 1522

Ion Ratio Lower Upper

82 100

128 163.9 102.4 153.6#

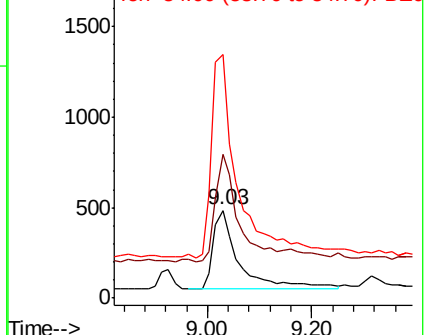
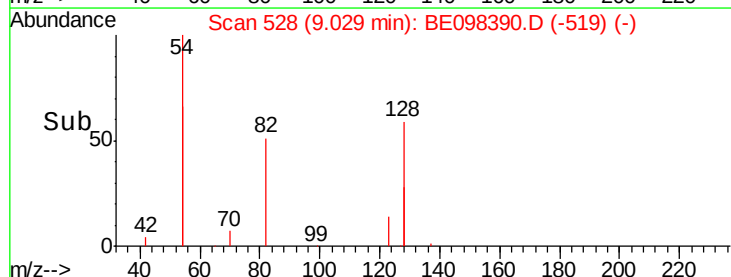
54 276.4 221.8 332.8

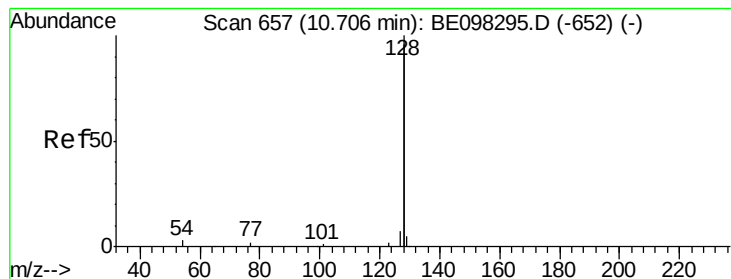


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.554 ng

RT: 10.71 min Scan# 657

Delta R.T. -0.00 min

Lab File: BE098390.D

Acq: 13 Dec 2018 10:47

Instrument :

BNA\_E

ClientSampleId :

RE-131D1-20181205MS

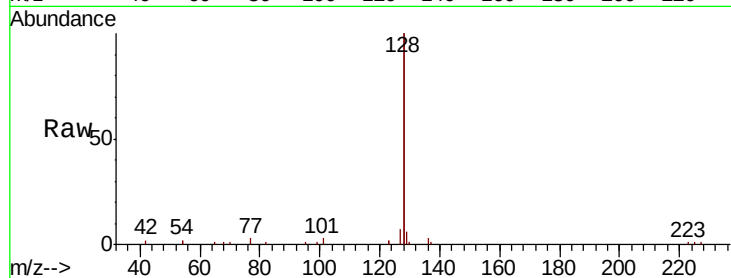
Tot Ion:128 Resp: 22949

Ion Ratio Lower Upper

128 100

129 3.2 2.5 3.7

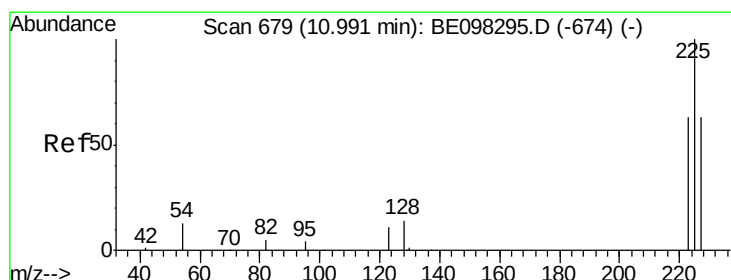
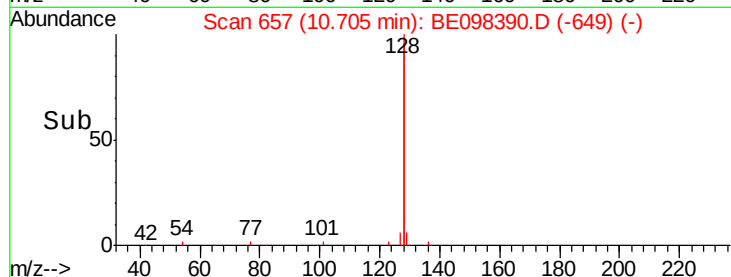
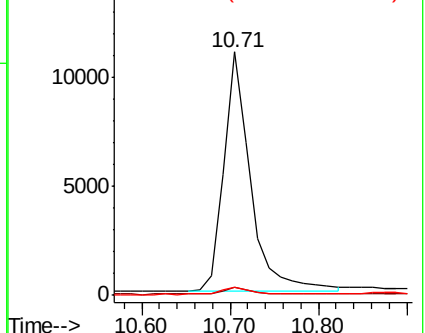
127 3.6 2.7 4.1



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#10

Hexachlorobutadiene

Concen: 0.420 ng

RT: 10.99 min Scan# 679

Delta R.T. -0.00 min

Lab File: BE098390.D

Acq: 13 Dec 2018 10:47

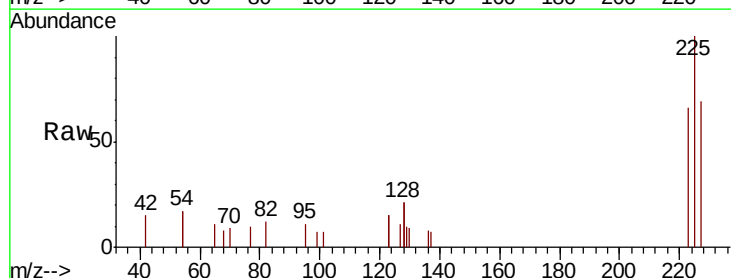
Tgt Ion:225 Resp: 1109

Ion Ratio Lower Upper

225 100

223 61.5 49.4 74.0

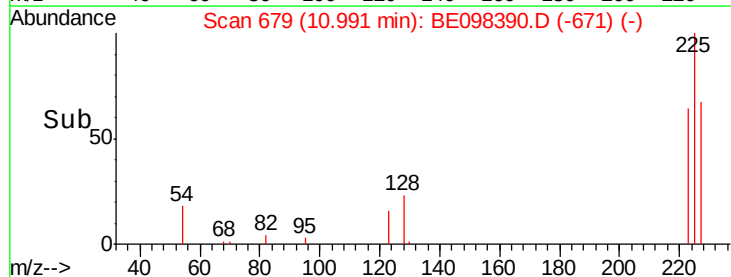
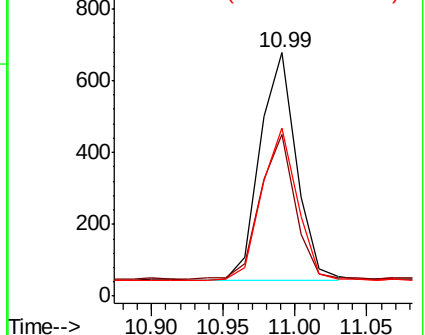
227 66.5 52.0 78.0

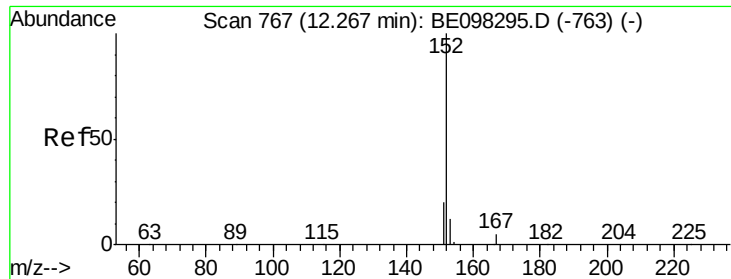


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E

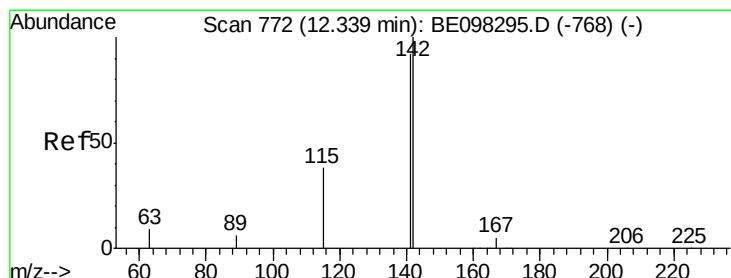
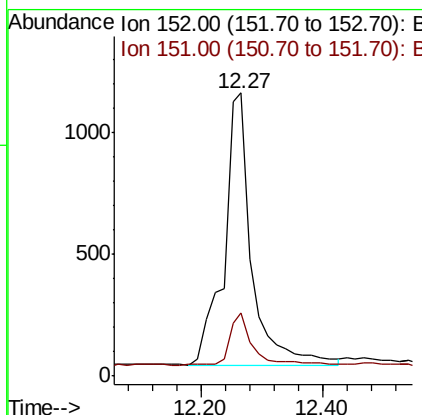
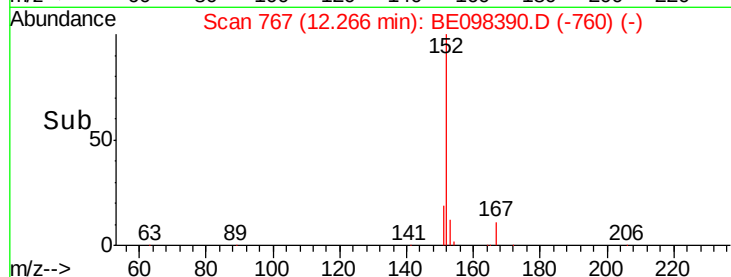
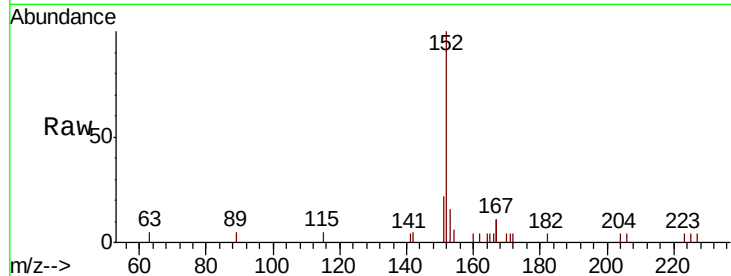




#11  
 2-Methylnaphthalene-d10  
 Concen: 0.531 ng  
 RT: 12.27 min Scan# 767  
 Delta R.T. -0.00 min  
 Lab File: BE098390.D  
 Acq: 13 Dec 2018 10:47

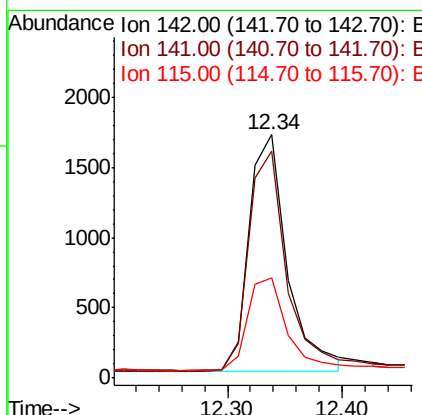
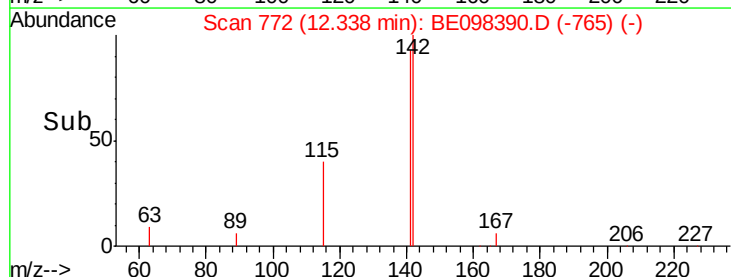
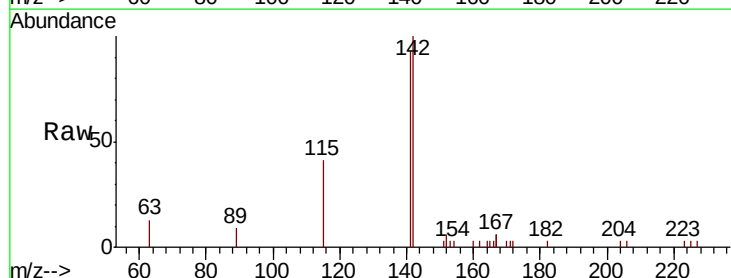
Instrument :  
 BNA\_E  
 ClientSampleId :  
 RE-131D1-20181205MS

Tot Ion:152 Resp: 3554  
 Ion Ratio Lower Upper  
 152 100  
 151 14.8 16.2 24.4#

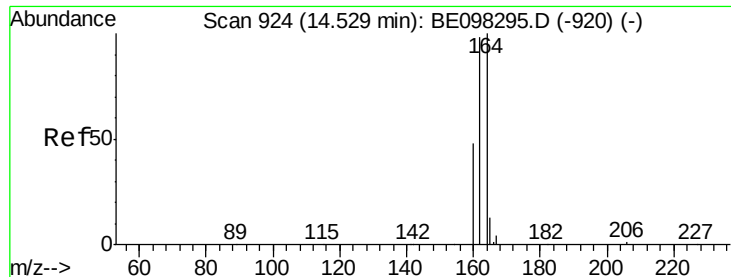


#12  
 2-Methylnaphthalene  
 Concen: 0.572 ng  
 RT: 12.34 min Scan# 772  
 Delta R.T. -0.00 min  
 Lab File: BE098390.D  
 Acq: 13 Dec 2018 10:47

Tgt Ion:142 Resp: 3852  
 Ion Ratio Lower Upper  
 142 100  
 141 93.0 71.0 106.6  
 115 41.3 32.2 48.2



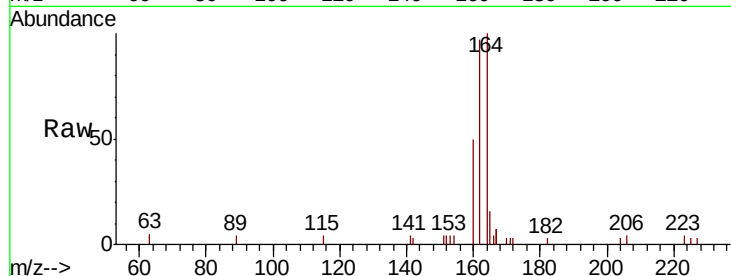




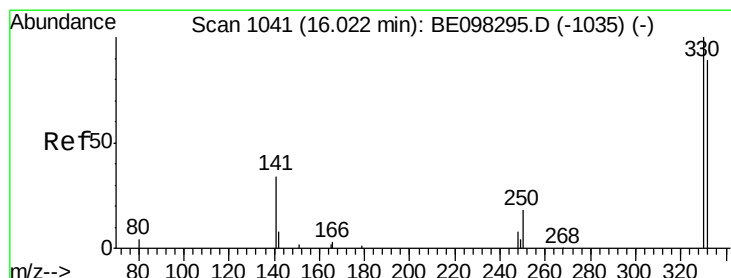
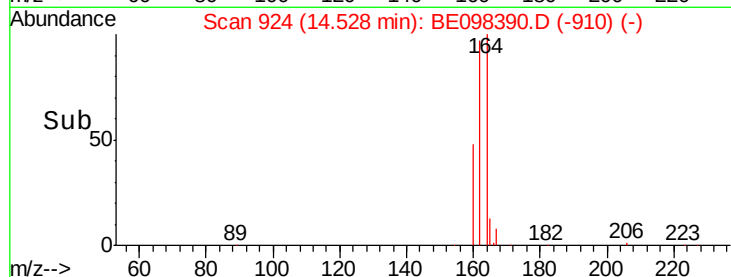
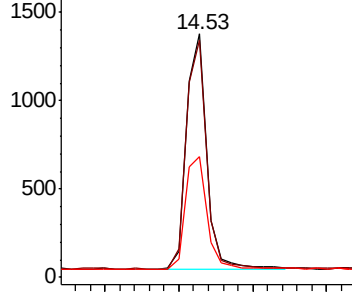
#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.53 min Scan# 924  
Delta R.T. -0.00 min  
Lab File: BE098390.D  
Acq: 13 Dec 2018 10:47

Instrument :  
BNA\_E  
ClientSampleId :  
RE-131D1-20181205MS

Tot Ion:164 Resp: 2536  
Ion Ratio Lower Upper  
164 100  
162 97.3 77.6 116.4  
160 49.6 36.0 54.0

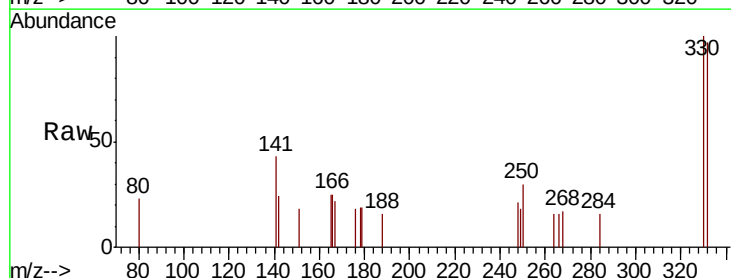


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

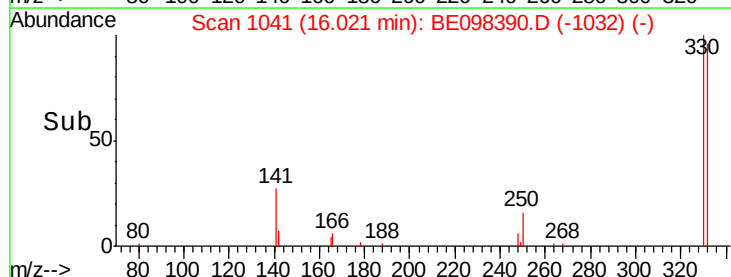
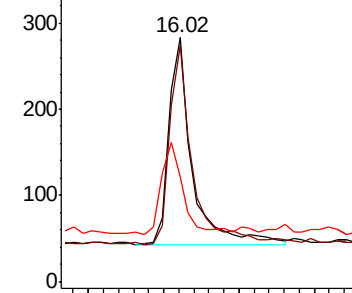


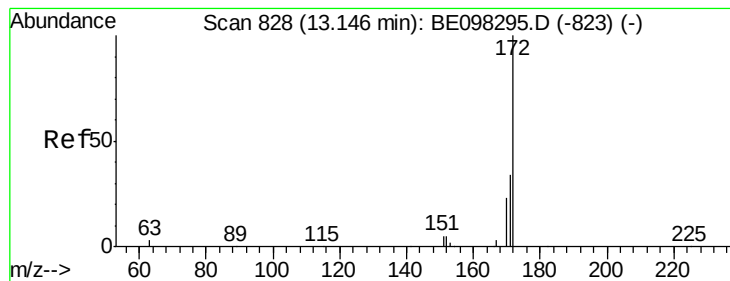
#14  
2,4,6-Tribromophenol  
Concen: 0.561 ng  
RT: 16.02 min Scan# 1041  
Delta R.T. -0.00 min  
Lab File: BE098390.D  
Acq: 13 Dec 2018 10:47

Tgt Ion:330 Resp: 522  
Ion Ratio Lower Upper  
330 100  
332 93.1 76.2 114.4  
141 39.8 39.0 58.4



Abundance Ion 330.00 (329.70 to 330.70): E  
Ion 331.80 (331.50 to 332.50): E  
Ion 141.00 (140.70 to 141.70): E

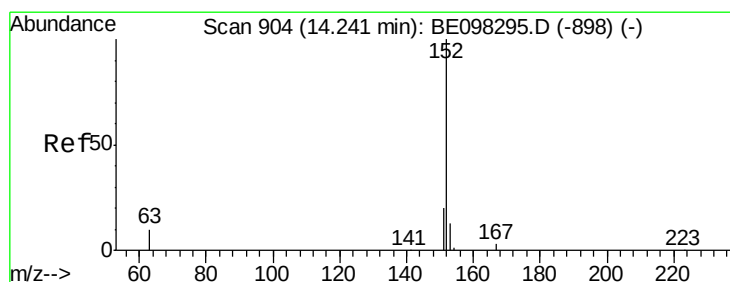
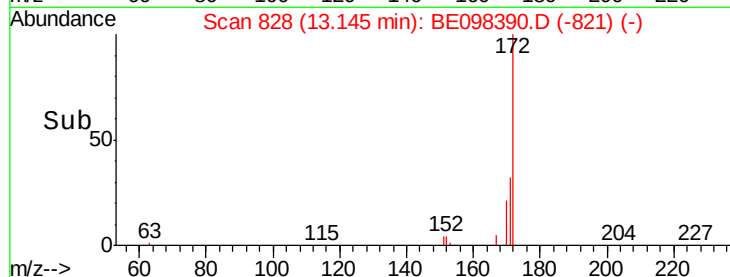
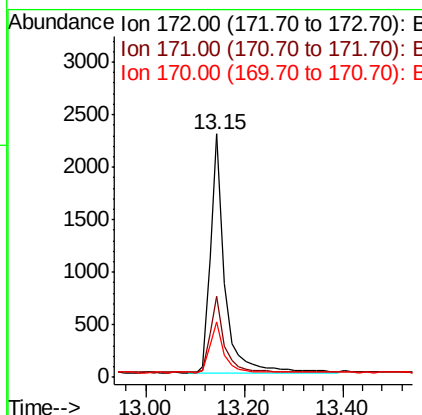
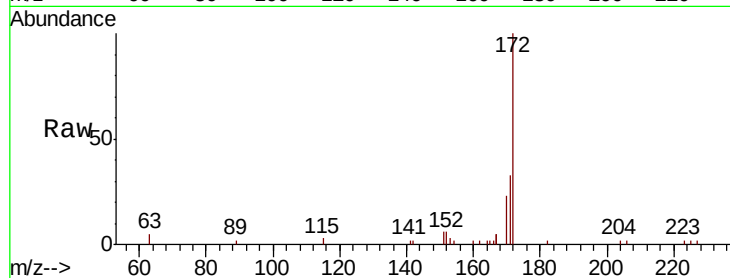




#15  
2-Fluorobiphenyl  
Concen: 0.425 ng  
RT: 13.15 min Scan# 828  
Delta R.T. -0.00 min  
Lab File: BE098390.D  
Acq: 13 Dec 2018 10:47

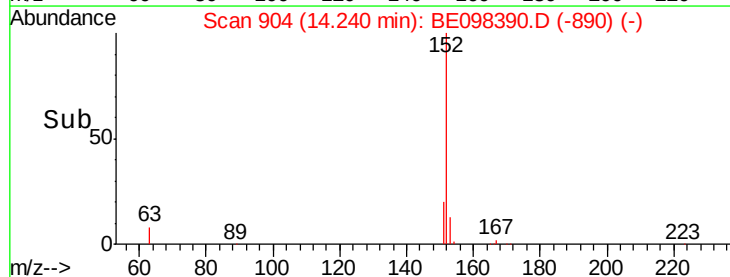
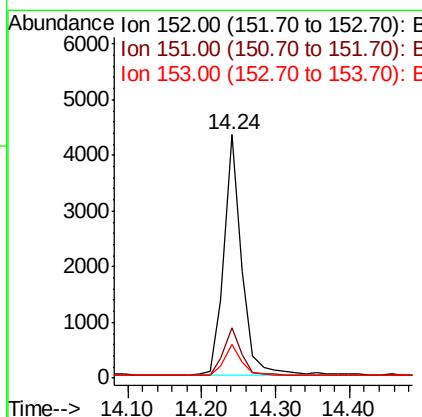
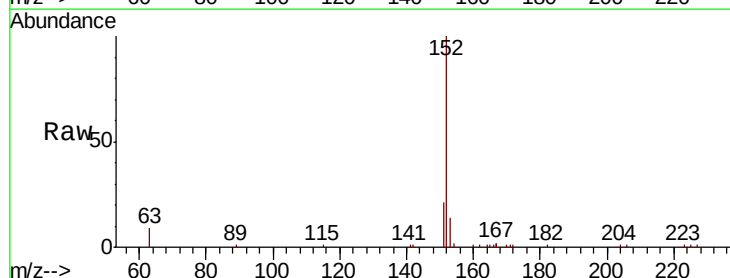
Instrument :  
BNA\_E  
ClientSampleId :  
RE-131D1-20181205MS

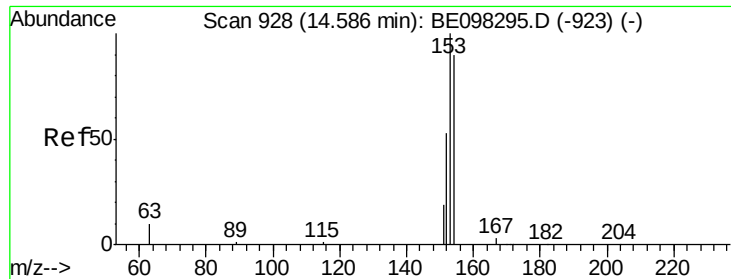
Tot Ion:172 Resp: 4547  
Ion Ratio Lower Upper  
172 100  
171 33.2 27.5 41.3  
170 22.7 19.6 29.4



#16  
Acenaphthylene  
Concen: 0.612 ng  
RT: 14.24 min Scan# 904  
Delta R.T. -0.00 min  
Lab File: BE098390.D  
Acq: 13 Dec 2018 10:47

Tgt Ion:152 Resp: 7266  
Ion Ratio Lower Upper  
152 100  
151 20.5 15.5 23.3  
153 13.0 10.6 16.0

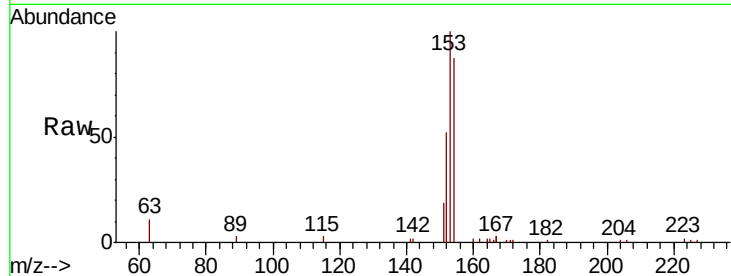




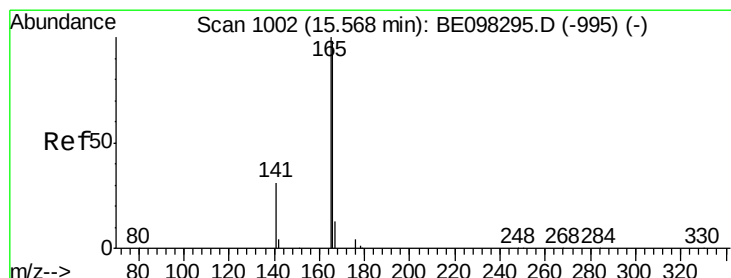
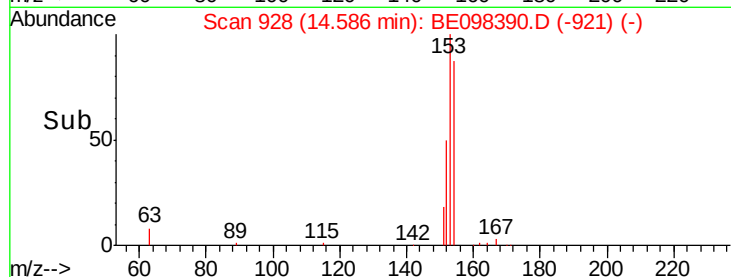
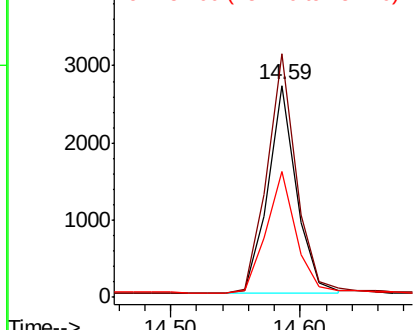
#17  
Acenaphthene  
Concen: 0.582 ng  
RT: 14.59 min Scan# 928  
Delta R.T. -0.00 min  
Lab File: BE098390.D  
Acq: 13 Dec 2018 10:47

Instrument :  
BNA\_E  
ClientSampleId :  
RE-131D1-20181205MS

Tot Ion:154 Resp: 4152  
Ion Ratio Lower Upper  
154 100  
153 118.2 91.8 137.6  
152 60.6 45.5 68.3

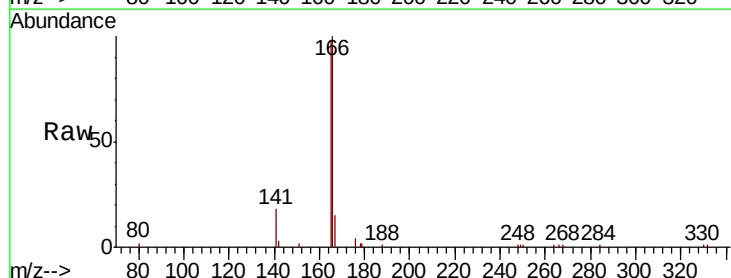


Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E

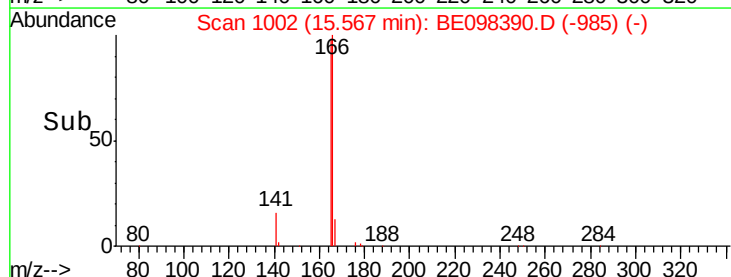
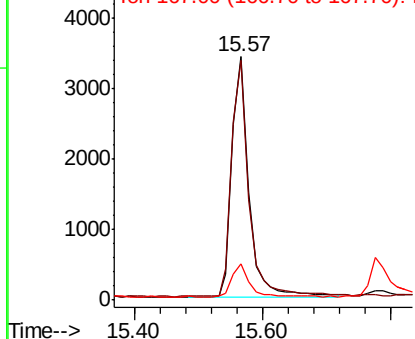


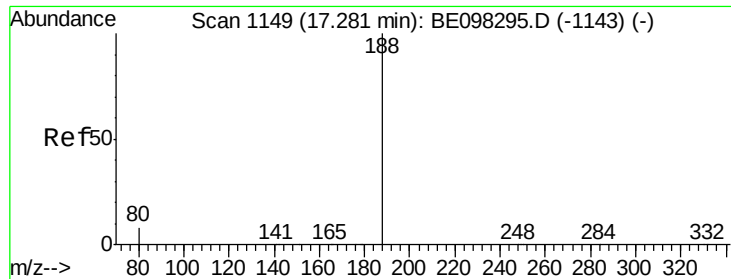
#18  
Fluorene  
Concen: 0.652 ng  
RT: 15.57 min Scan# 1002  
Delta R.T. -0.00 min  
Lab File: BE098390.D  
Acq: 13 Dec 2018 10:47

Tgt Ion:166 Resp: 6228  
Ion Ratio Lower Upper  
166 100  
165 99.6 79.3 118.9  
167 13.8 11.3 16.9



Abundance Ion 166.00 (165.70 to 166.70): E  
Ion 165.00 (164.70 to 165.70): E  
Ion 167.00 (166.70 to 167.70): E





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.27 min Scan# 1148

Delta R.T. -0.01 min

Lab File: BE098390.D

Acq: 13 Dec 2018 10:47

Instrument :

BNA\_E

ClientSampleId :

RE-131D1-20181205MS

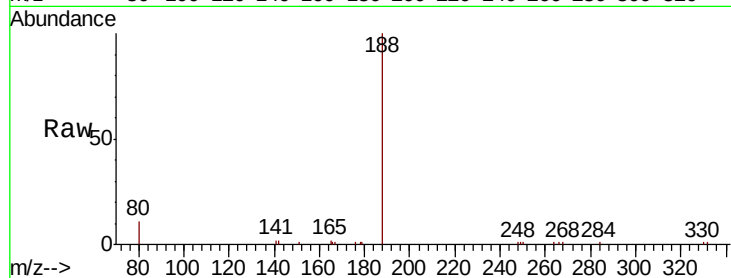
Tot Ion:188 Resp: 6800

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

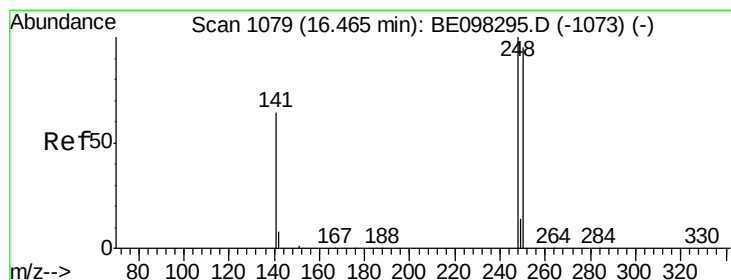
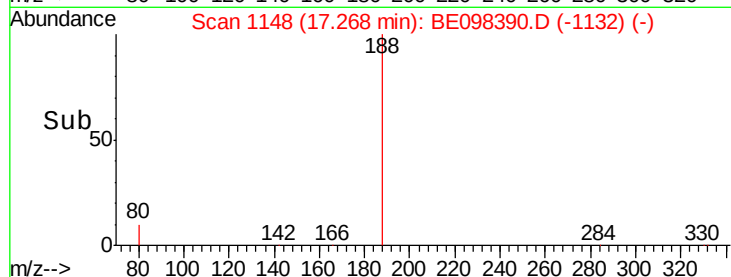
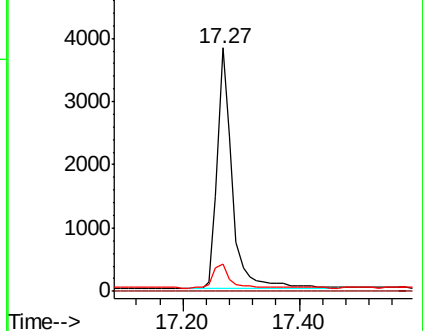
80 11.0 7.2 10.8#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#20

4-Bromophenyl-phenylether

Concen: 0.469 ng

RT: 16.46 min Scan# 1079

Delta R.T. -0.00 min

Lab File: BE098390.D

Acq: 13 Dec 2018 10:47

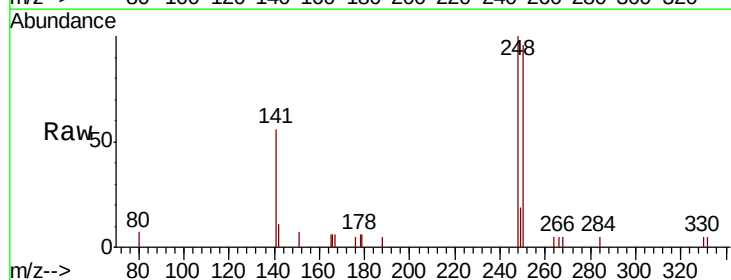
Tgt Ion:248 Resp: 1715

Ion Ratio Lower Upper

248 100

250 95.8 71.0 106.6

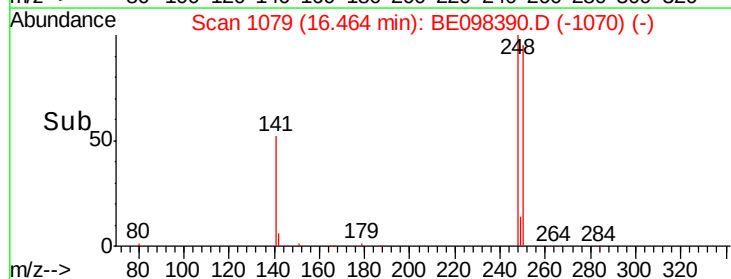
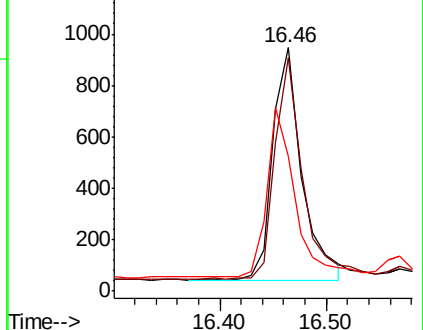
141 55.5 62.1 93.1#

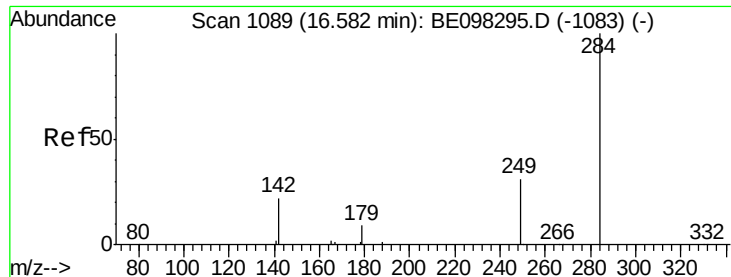


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#21

Hexachlorobenzene

Concen: 0.444 ng

RT: 16.58 min Scan# 1089

Delta R.T. -0.00 min

Lab File: BE098390.D

Acq: 13 Dec 2018 10:47

Instrument :

BNA\_E

ClientSampleId :

RE-131D1-20181205MS

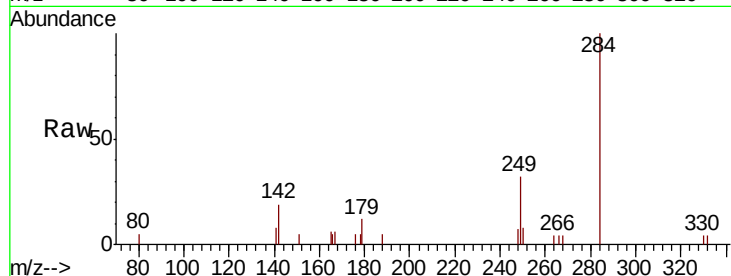
Tot Ion:284 Resp: 1747

Ion Ratio Lower Upper

284 100

142 34.8 26.3 39.5

249 35.4 26.0 39.0

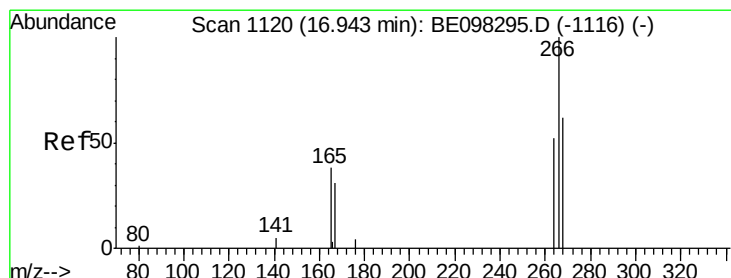
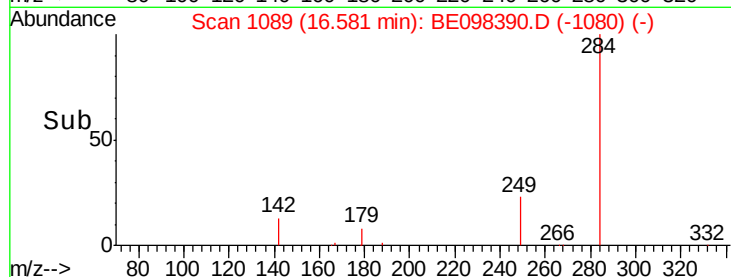
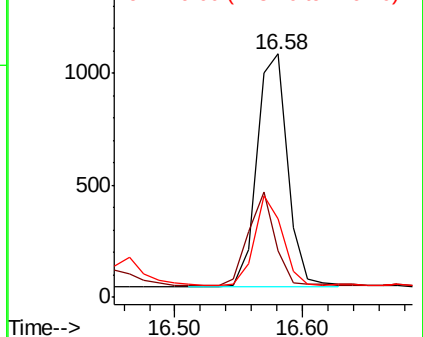


Abundance

Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E



#22

Pentachlorophenol

Concen: 0.754 ng

RT: 16.93 min Scan# 1119

Delta R.T. -0.01 min

Lab File: BE098390.D

Acq: 13 Dec 2018 10:47

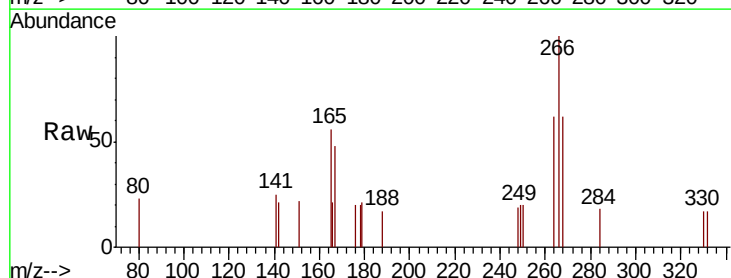
Tgt Ion:266 Resp: 536

Ion Ratio Lower Upper

266 100

264 61.7 59.0 88.4

268 62.4 55.1 82.7

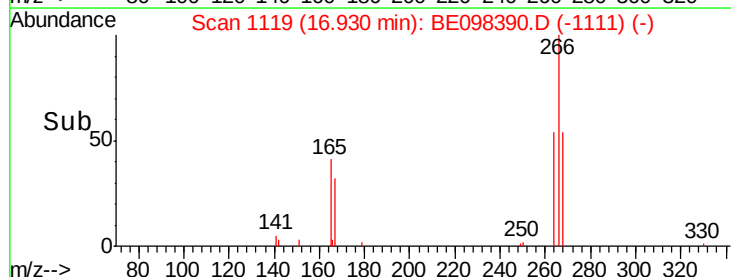
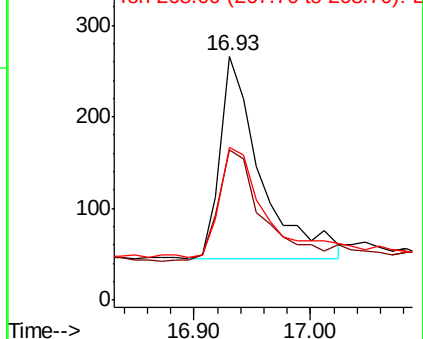


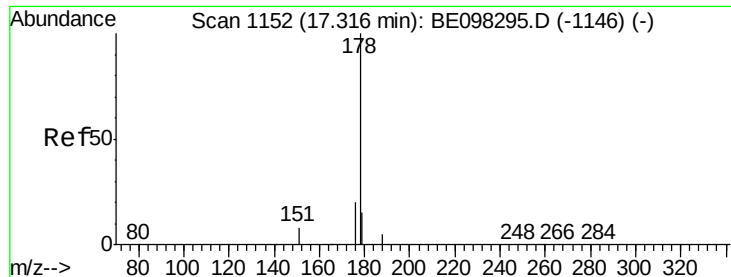
Abundance

Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.678 ng

RT: 17.31 min Scan# 1152

Delta R.T. -0.00 min

Lab File: BE098390.D

Acq: 13 Dec 2018 10:47

Instrument :

BNA\_E

ClientSampleId :

RE-131D1-20181205MS

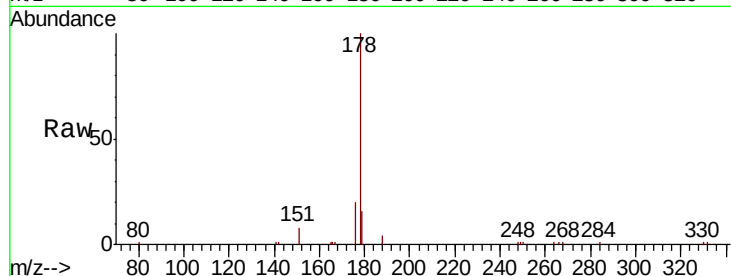
Tot Ion:178 Resp: 11204

Ion Ratio Lower Upper

178 100

176 19.9 15.9 23.9

179 15.4 12.3 18.5

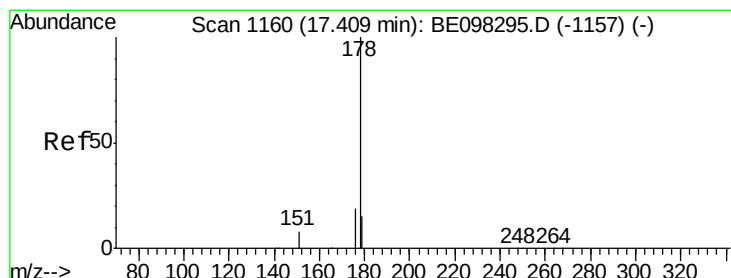
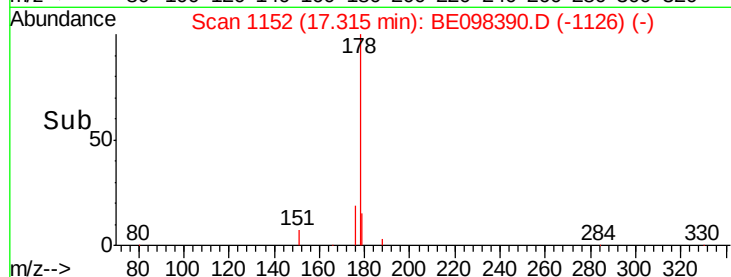
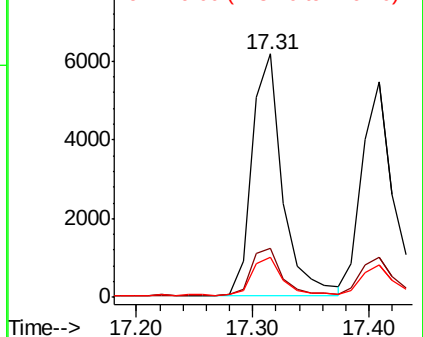


Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#24

Anthracene

Concen: 0.654 ng

RT: 17.41 min Scan# 1160

Delta R.T. -0.00 min

Lab File: BE098390.D

Acq: 13 Dec 2018 10:47

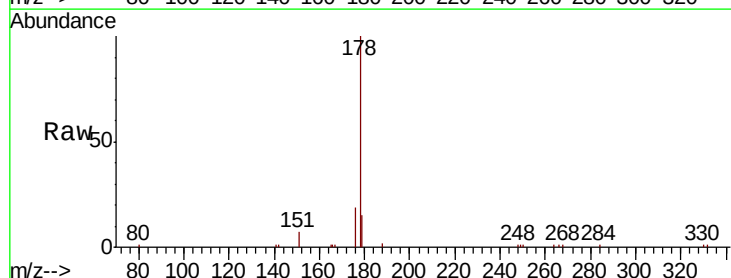
Tgt Ion:178 Resp: 9638

Ion Ratio Lower Upper

178 100

176 18.8 15.0 22.4

179 14.7 12.3 18.5

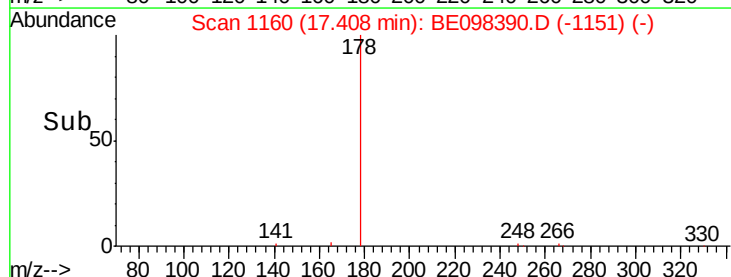
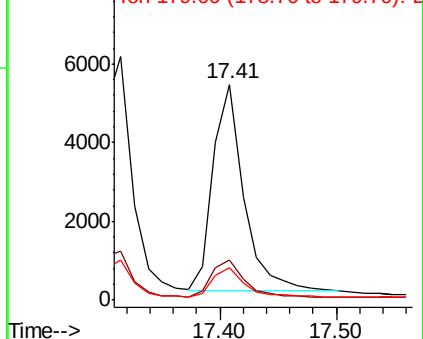


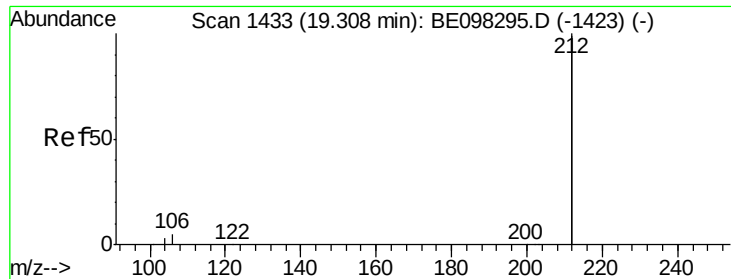
Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

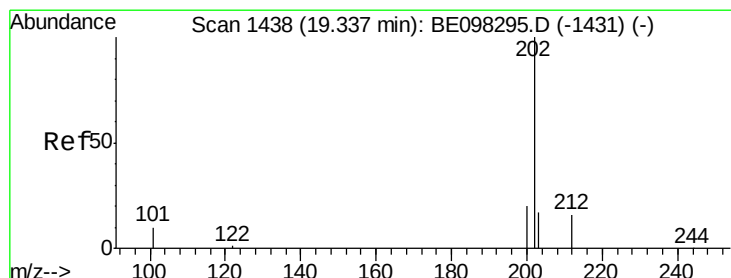
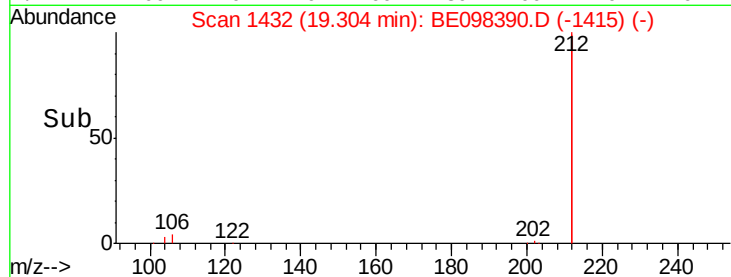
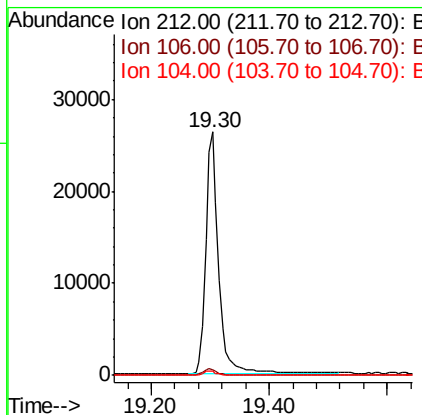
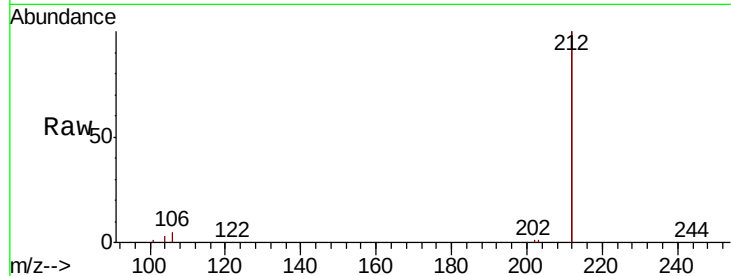




#25  
Fluoranthene-d10  
Concen: 0.465 ng  
RT: 19.30 min Scan# 1432  
Delta R.T. -0.00 min  
Lab File: BE098390.D  
Acq: 13 Dec 2018 10:47

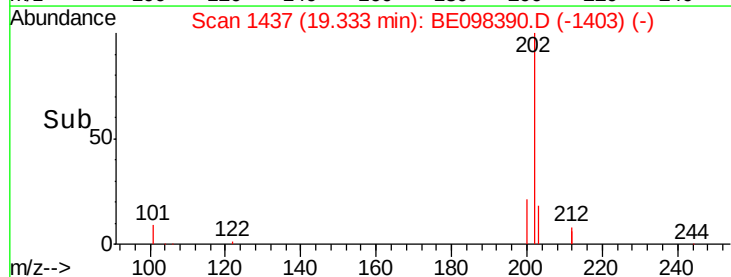
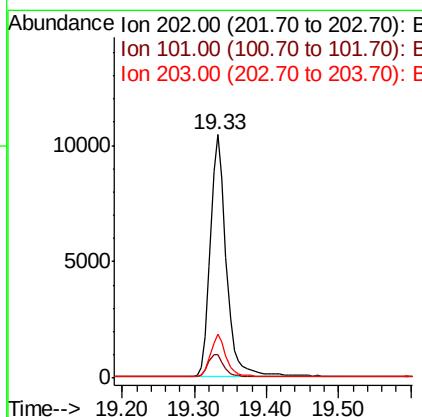
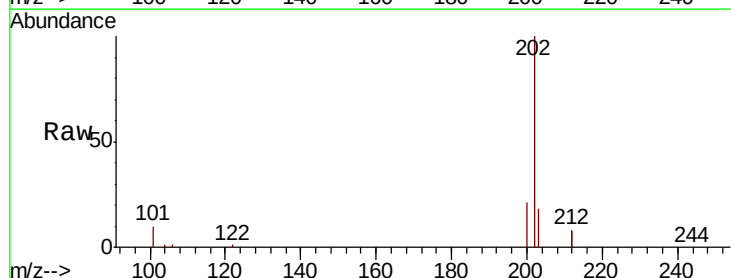
Instrument :  
BNA\_E  
ClientSampleId :  
RE-131D1-20181205MS

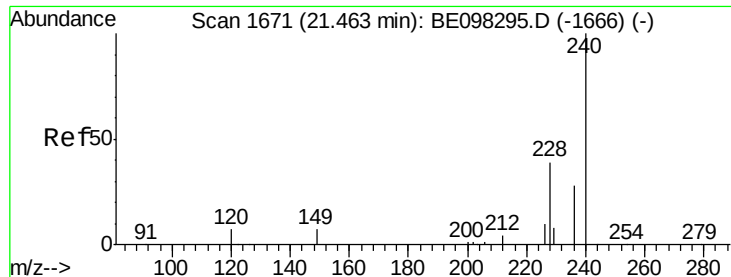
Tot Ion:212 Resp: 40596  
Ion Ratio Lower Upper  
212 100  
106 2.5 2.2 3.2  
104 1.5 1.3 1.9



#26  
Fluoranthene  
Concen: 0.740 ng  
RT: 19.33 min Scan# 1437  
Delta R.T. -0.00 min  
Lab File: BE098390.D  
Acq: 13 Dec 2018 10:47

Tgt Ion:202 Resp: 16174  
Ion Ratio Lower Upper  
202 100  
101 9.4 8.0 12.0  
203 17.3 13.8 20.6





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.46 min Scan# 1671

Delta R.T. -0.00 min

Lab File: BE098390.D

Acq: 13 Dec 2018 10:47

Instrument :

BNA\_E

ClientSampleId :

RE-131D1-20181205MS

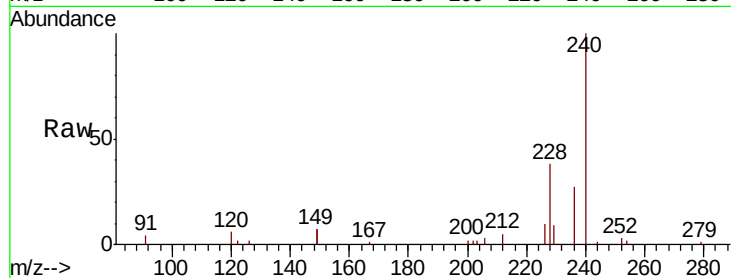
Tot Ion:240 Resp: 8923

Ion Ratio Lower Upper

240 100

120 6.0 9.5 14.3#

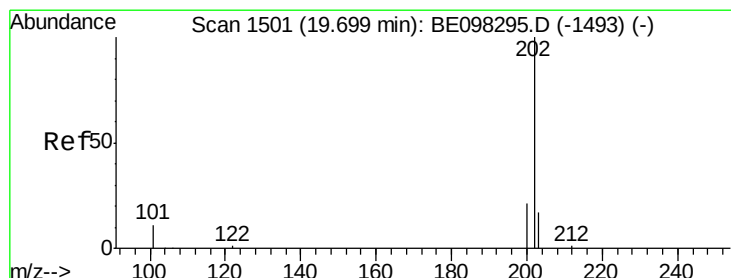
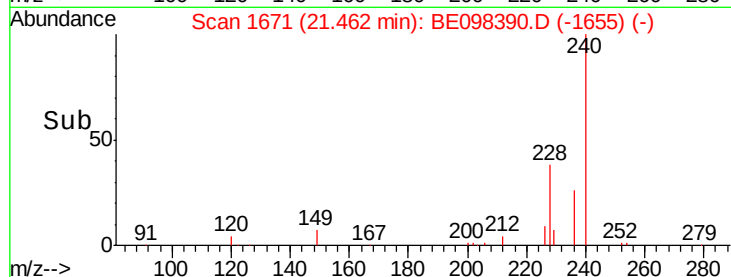
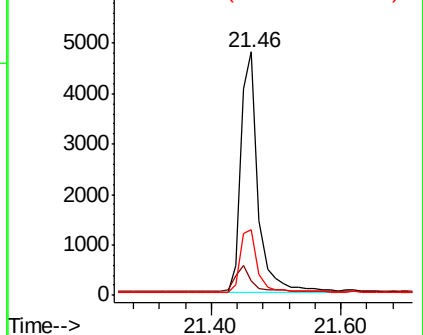
236 27.2 22.7 34.1



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#28

Pyrene

Concen: 0.594 ng

RT: 19.69 min Scan# 1500

Delta R.T. -0.00 min

Lab File: BE098390.D

Acq: 13 Dec 2018 10:47

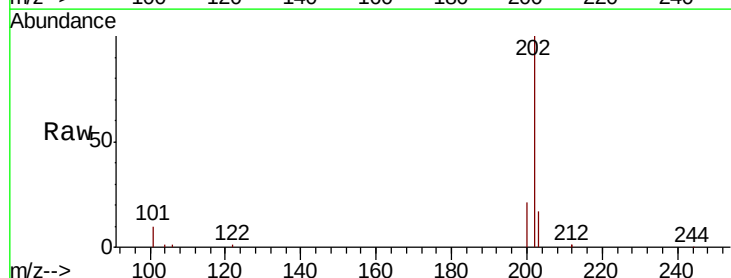
Tgt Ion:202 Resp: 16644

Ion Ratio Lower Upper

202 100

200 21.2 16.7 25.1

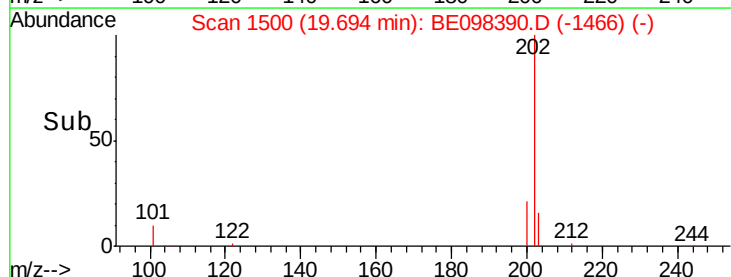
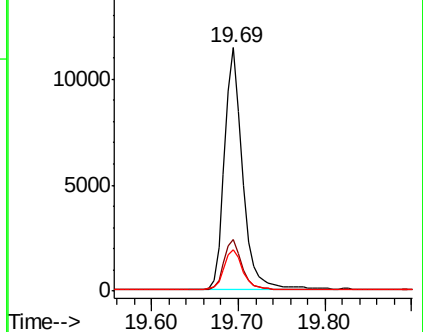
203 17.3 14.1 21.1



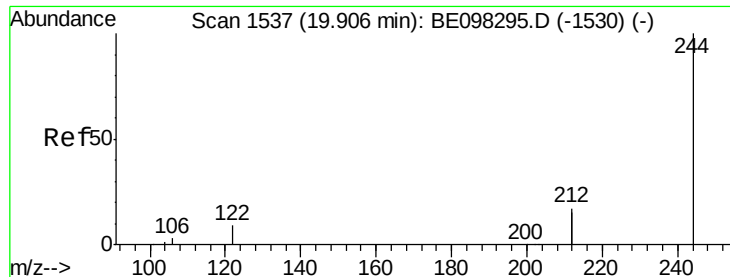
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E







#29

Terphenyl-d14

Concen: 0.370 ng

RT: 19.90 min Scan# 1536

Delta R.T. -0.00 min

Lab File: BE098390.D

Acq: 13 Dec 2018 10:47

Instrument :

BNA\_E

ClientSampleId :

RE-131D1-20181205MS

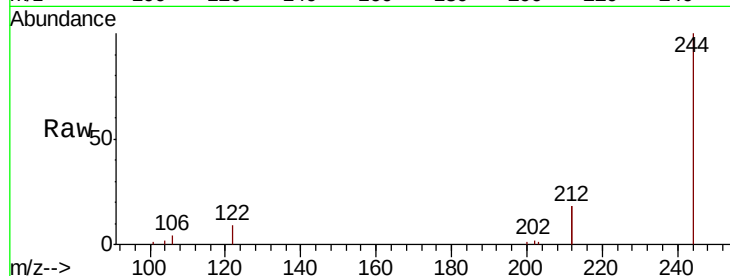
Tot Ion:244 Resp: 8019

Ion Ratio Lower Upper

244 100

212 36.7 27.4 41.0

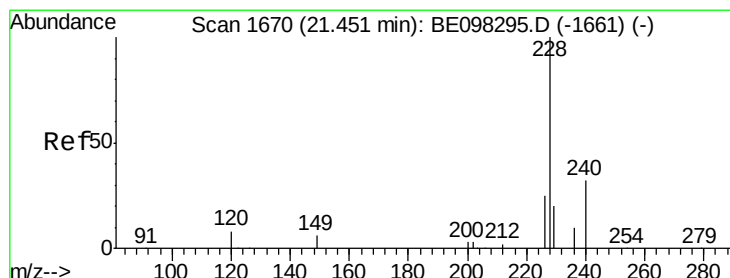
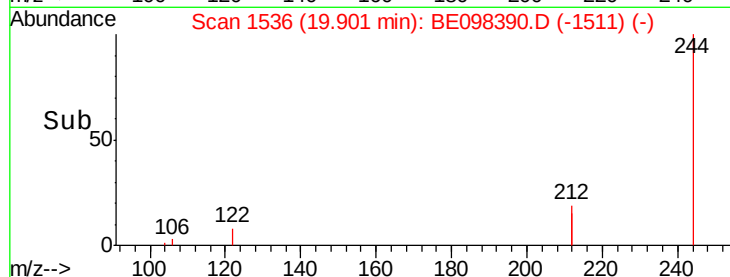
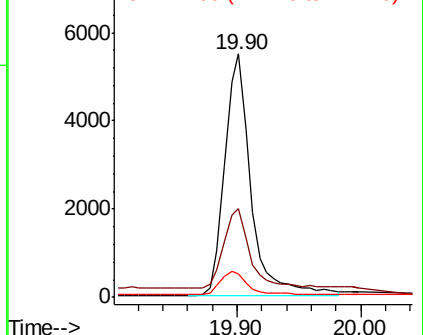
122 9.5 8.3 12.5



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#30

Benzo(a)anthracene

Concen: 0.673 ng

RT: 21.44 min Scan# 1669

Delta R.T. -0.01 min

Lab File: BE098390.D

Acq: 13 Dec 2018 10:47

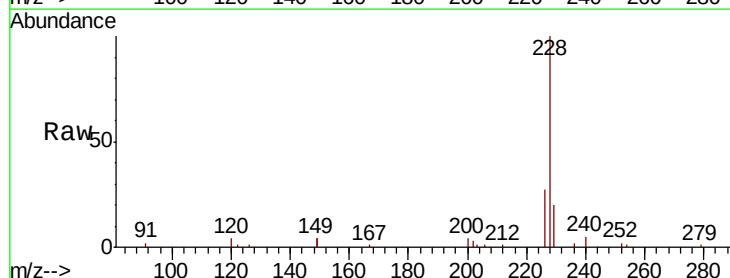
Tgt Ion:228 Resp: 17090

Ion Ratio Lower Upper

228 100

226 27.4 21.8 32.8

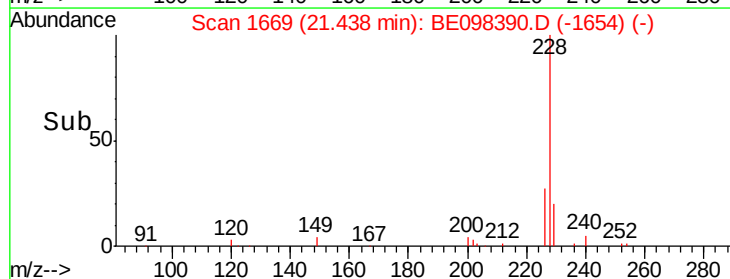
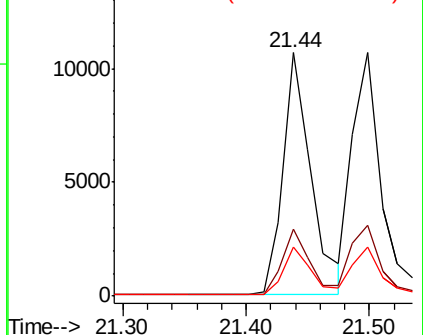
229 20.1 16.3 24.5

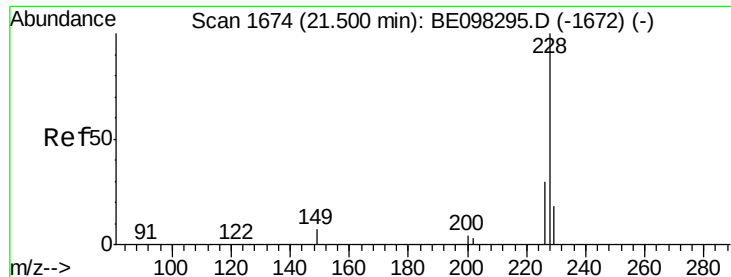


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



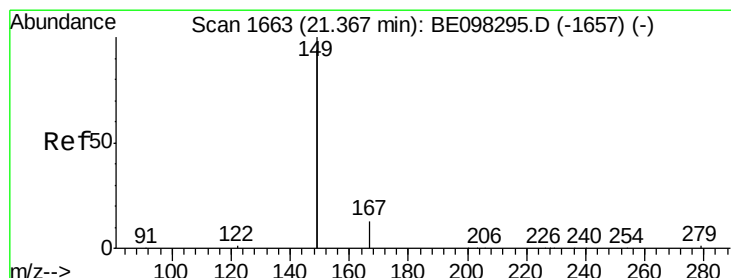
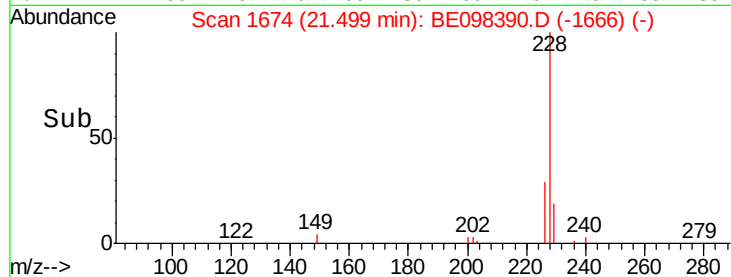
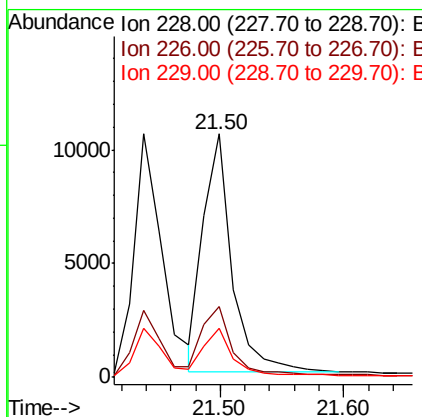
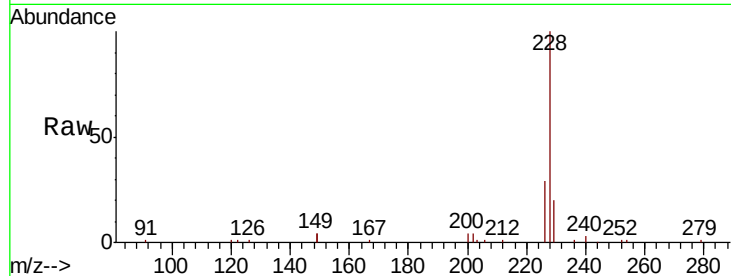


#31  
 Chrysene  
 Concen: 0.633 ng  
 RT: 21.50 min Scan# 1674  
 Delta R.T. -0.00 min  
 Lab File: BE098390.D  
 Acq: 13 Dec 2018 10:47

Instrument :  
 BNA\_E  
 ClientSampleId :  
 RE-131D1-20181205MS

Tot Ion:228 Resp: 16858  

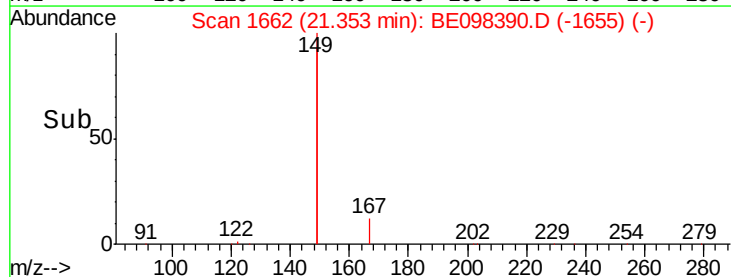
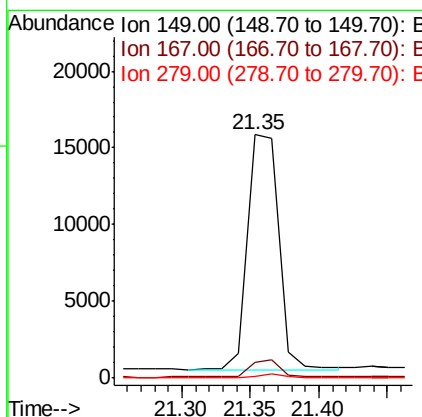
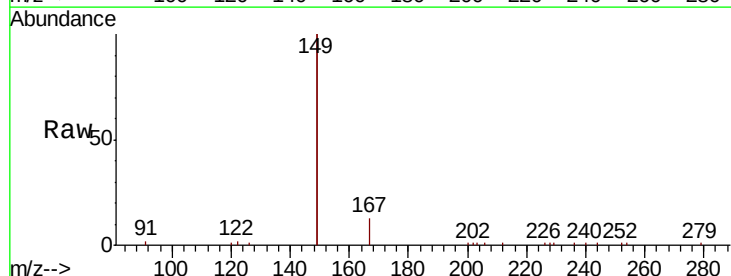
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 29.2  | 23.4  | 35.0  |
| 229 | 19.9  | 16.2  | 24.4  |

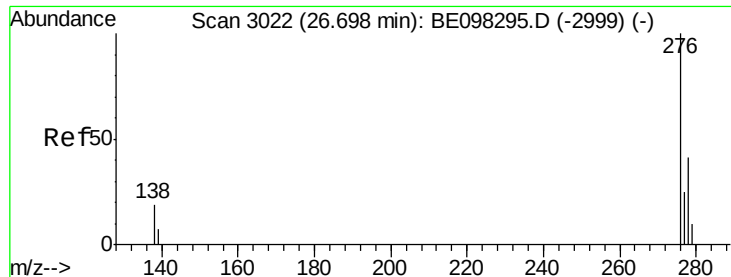


#32  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.466 ng  
 RT: 21.35 min Scan# 1662  
 Delta R.T. -0.01 min  
 Lab File: BE098390.D  
 Acq: 13 Dec 2018 10:47

Tgt Ion:149 Resp: 24056  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 149 | 100   |       |       |
| 167 | 6.7   | 5.7   | 8.5   |
| 279 | 1.0   | 1.0   | 1.4   |

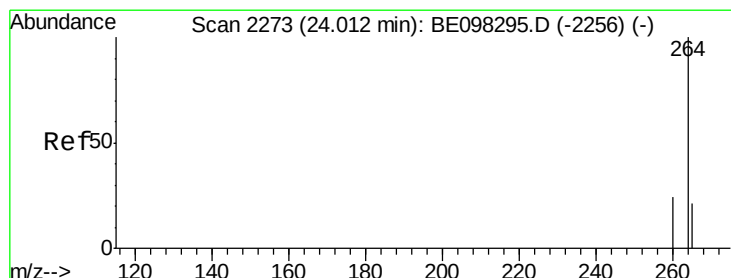
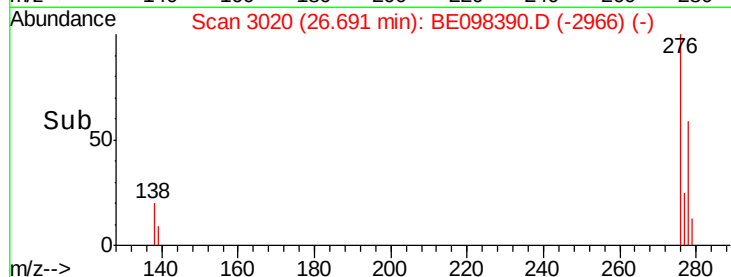
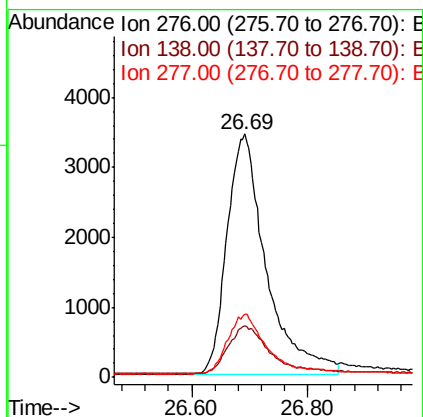
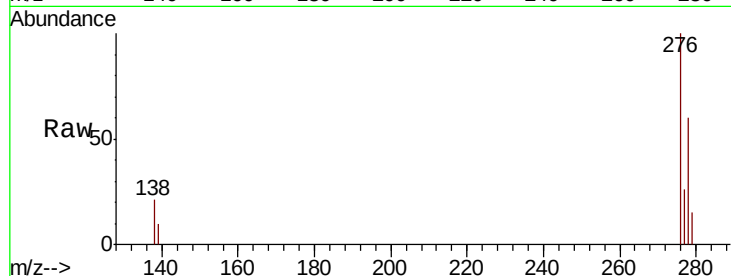




#33  
Indeno(1,2,3-cd)pyrene  
Concen: 0.608 ng  
RT: 26.69 min Scan# 3020  
Delta R.T. -0.01 min  
Lab File: BE098390.D  
Acq: 13 Dec 2018 10:47

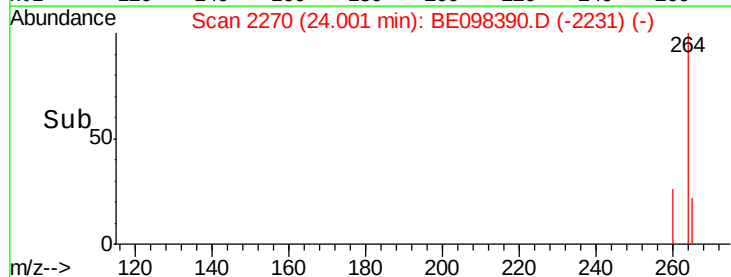
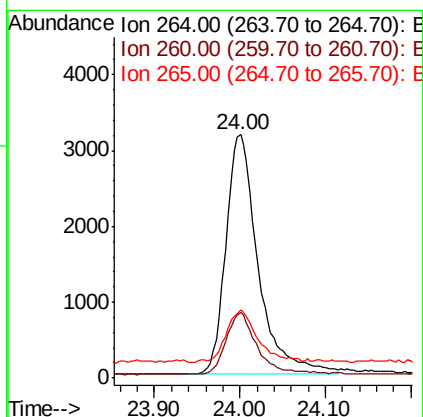
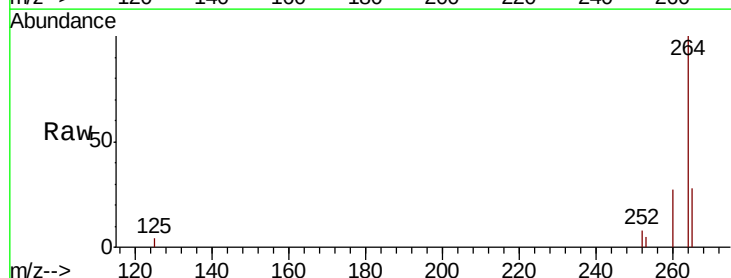
Instrument :  
BNA\_E  
ClientSampleId :  
RE-131D1-20181205MS

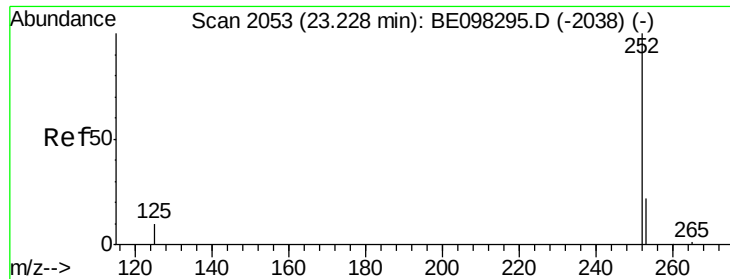
Tot Ion:276 Resp: 16098  
Ion Ratio Lower Upper  
276 100  
138 20.8 16.3 24.5  
277 24.4 20.2 30.4



#34  
Perylene-d12  
Concen: 0.400 ng  
RT: 24.00 min Scan# 2270  
Delta R.T. -0.01 min  
Lab File: BE098390.D  
Acq: 13 Dec 2018 10:47

Tgt Ion:264 Resp: 8286  
Ion Ratio Lower Upper  
264 100  
260 26.9 20.2 30.2  
265 28.0 25.2 37.8

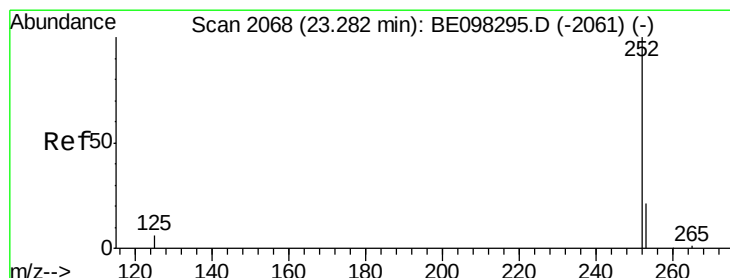
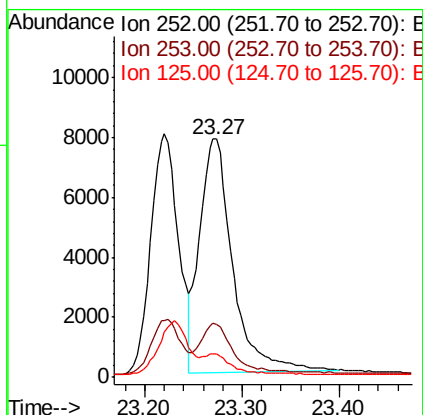
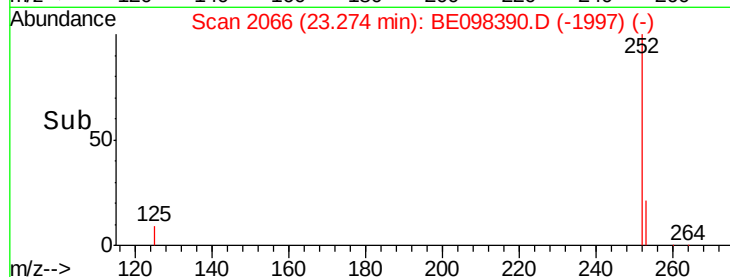
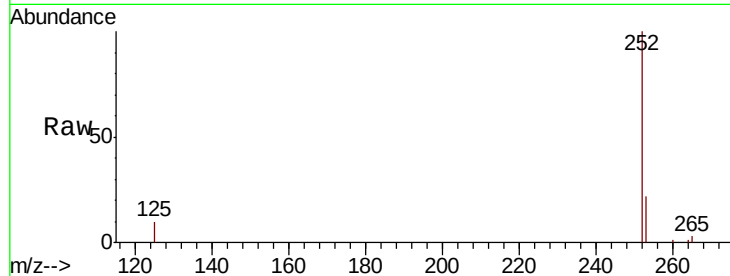




#35  
Benzo(b)fluoranthene  
Concen: 0.808 ng  
RT: 23.27 min Scan# 2066  
Delta R.T. 0.05 min  
Lab File: BE098390.D  
Acq: 13 Dec 2018 10:47

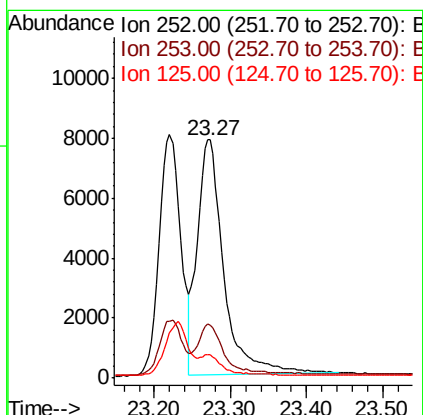
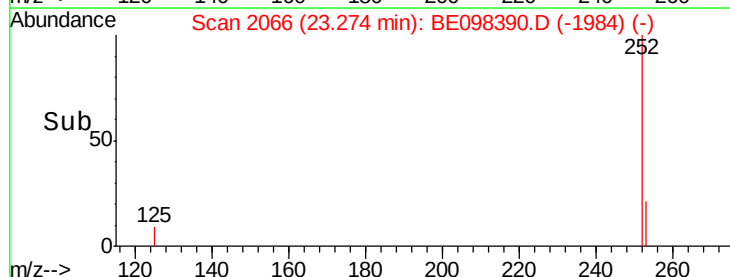
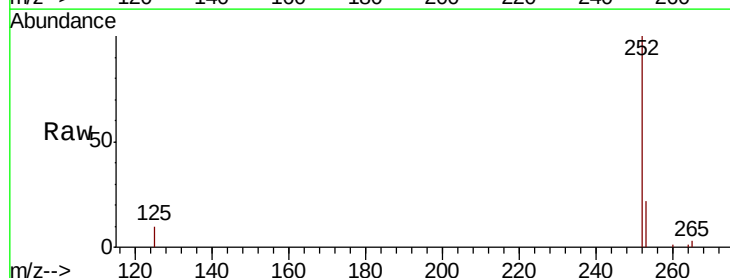
Instrument :  
BNA\_E  
ClientSampleId :  
RE-131D1-20181205MS

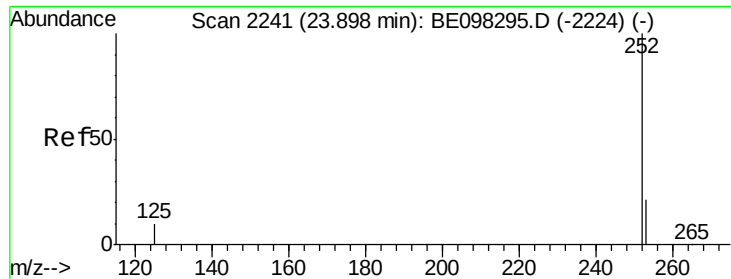
Tot Ion:252 Resp: 18298  
Ion Ratio Lower Upper  
252 100  
253 22.5 20.0 30.0  
125 9.8 9.6 14.4



#36  
Benzo(k)fluoranthene  
Concen: 0.718 ng  
RT: 23.27 min Scan# 2066  
Delta R.T. -0.01 min  
Lab File: BE098390.D  
Acq: 13 Dec 2018 10:47

Tgt Ion:252 Resp: 18959  
Ion Ratio Lower Upper  
252 100  
253 22.5 19.0 28.6  
125 9.8 9.1 13.7





#37

Benzo(a)pyrene

Concen: 0.691 ng

RT: 23.89 min Scan# 2238

Delta R.T. -0.01 min

Lab File: BE098390.D

Acq: 13 Dec 2018 10:47

Instrument :

BNA\_E

ClientSampleId :

RE-131D1-20181205MS

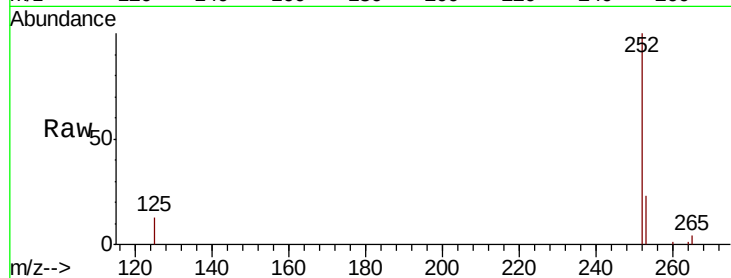
Tot Ion:252 Resp: 16161

Ion Ratio Lower Upper

252 100

253 23.3 20.6 30.8

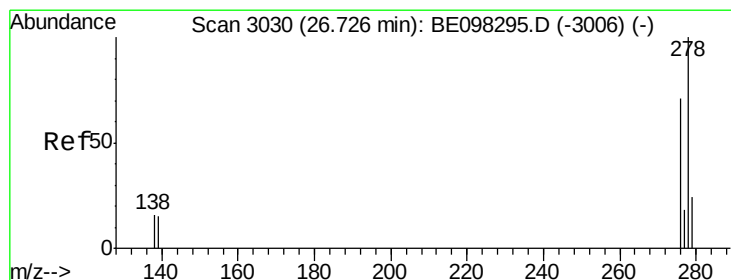
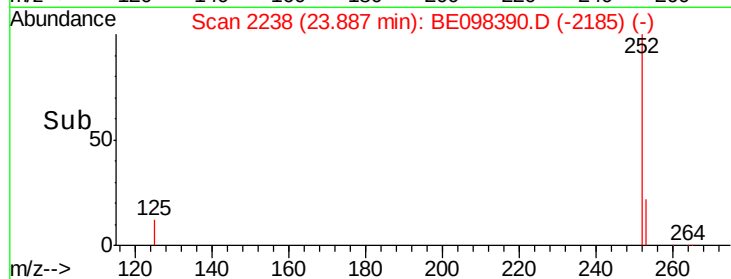
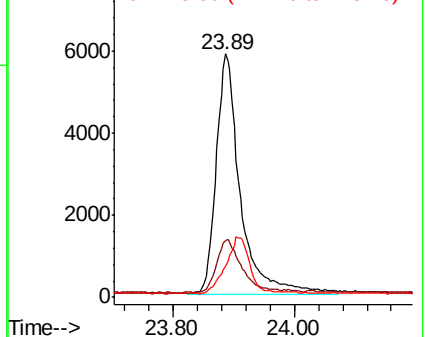
125 13.0 10.5 15.7



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#38

Dibenzo(a,h)anthracene

Concen: 0.617 ng

RT: 26.71 min Scan# 3025

Delta R.T. -0.02 min

Lab File: BE098390.D

Acq: 13 Dec 2018 10:47

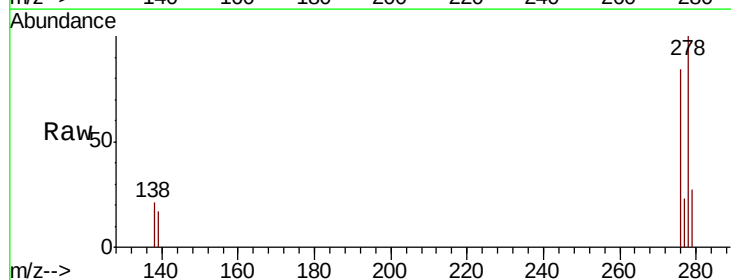
Tgt Ion:278 Resp: 13594

Ion Ratio Lower Upper

278 100

139 16.7 14.5 21.7

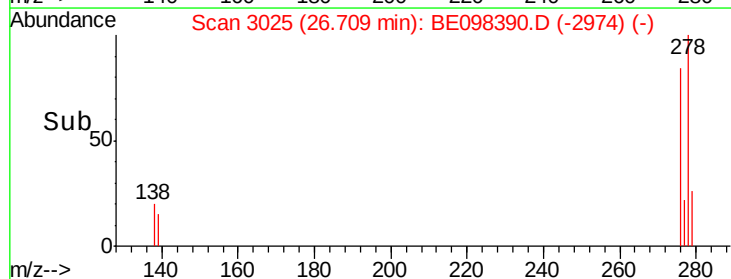
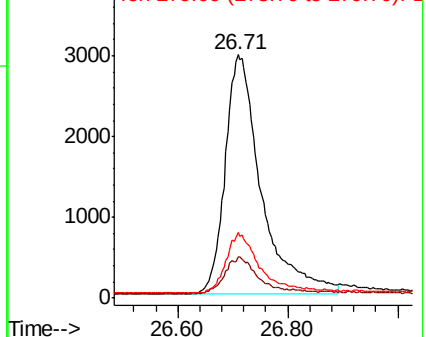
279 27.2 21.8 32.8

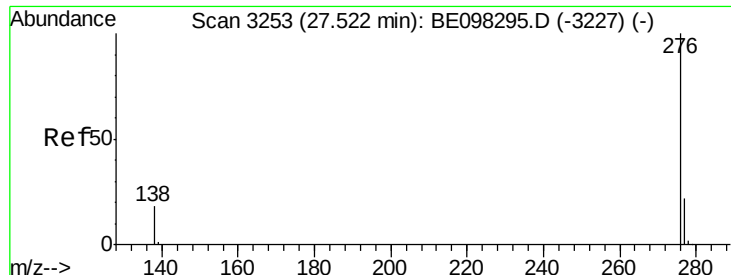


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#39

Benzo(a,h,i)perylene

Concen: 0.590 ng

RT: 27.50 min Scan# 3248

Delta R.T. -0.02 min

Lab File: BE098390.D

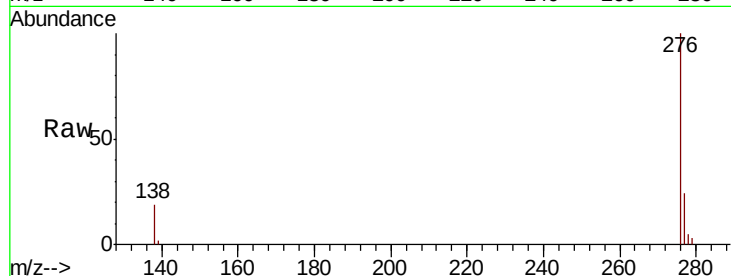
Acq: 13 Dec 2018 10:47

Instrument :

BNA\_E

ClientSampleId :

RE-131D1-20181205MS



Tot Ion: 276 Resp: 13089

Ion Ratio Lower Upper

276 100

277 23.7 20.8 31.2

138 19.0 15.8 23.6

Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

