

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_E\DATA\BE121318\  
 Data File : BE098403.D  
 Acq On : 13 Dec 2018 18:58  
 Operator : SJ/JU  
 Sample : J6323-03  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 RE-122D1-20181206

Quant Time: Dec 13 20:47:49 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 | 7.87  | 152  | 938      | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.67 | 136  | 3917     | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.53 | 164  | 2459     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.27 | 188  | 7034     | 0.40 | ng    | -0.01    |
| 27) Chrysene-d12          | 21.46 | 240  | 8459     | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 24.00 | 264  | 7934     | 0.40 | ng    | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.46  | 112  | 439      | 0.20 | ng    | 0.01     |
| 5) Phenol-d6                | 7.04  | 99   | 375      | 0.12 | ng    | 0.00     |
| 8) Nitrobenzene-d5          | 9.03  | 82   | 1405     | 0.39 | ng    | 0.01     |
| 11) 2-Methylnaphthalene-d10 | 12.27 | 152  | 2709     | 0.43 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol    | 16.02 | 330  | 552      | 0.61 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl        | 13.15 | 172  | 4847     | 0.47 | ng    | 0.00     |
| 25) Fluoranthene-d10        | 19.30 | 212  | 41683    | 0.46 | ng    | 0.00     |
| 29) Terphenyl-d14           | 19.90 | 244  | 7894     | 0.38 | ng    | 0.00     |

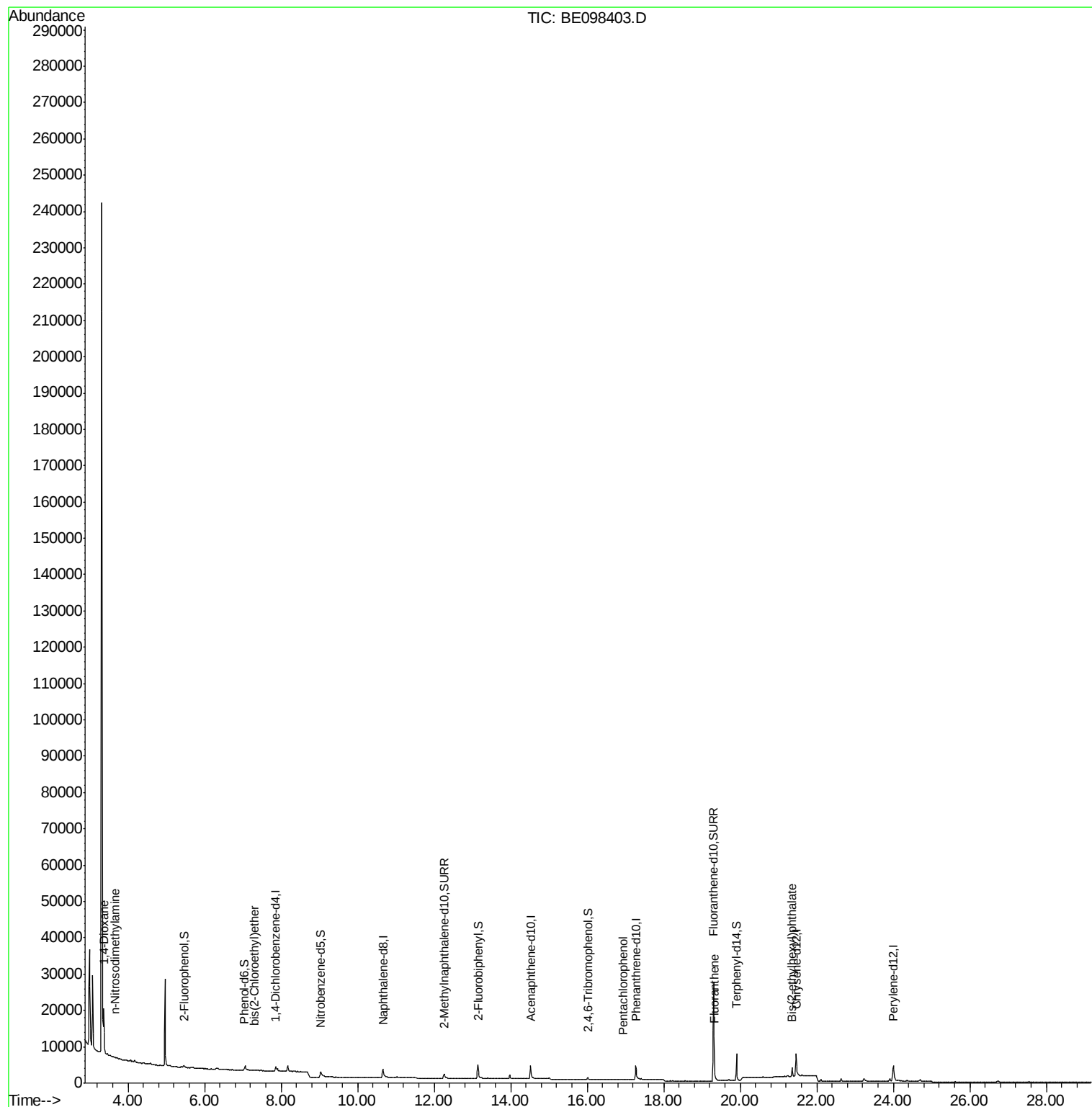
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 2) 1,4-Dioxane                 | 3.36  | 88   | 5091     | 3.138 | ng    | # 93   |
| 3) n-Nitrosodimethylamine      | 3.67  | 42   | 75       | 0.051 | ng    | # 100  |
| 6) bis(2-Chloroethyl)ether     | 7.29  | 93   | 91       | 0.031 | ng    | # 63   |
| 22) Pentachlorophenol          | 16.94 | 266  | 10       | 0.032 | ng    | # 73   |
| 26) Fluoranthene               | 19.33 | 202  | 494      | 0.022 | ng    | # 95   |
| 32) Bis(2-ethylhexyl)phthalate | 21.35 | 149  | 3339     | 0.068 | ng    | # 98   |

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

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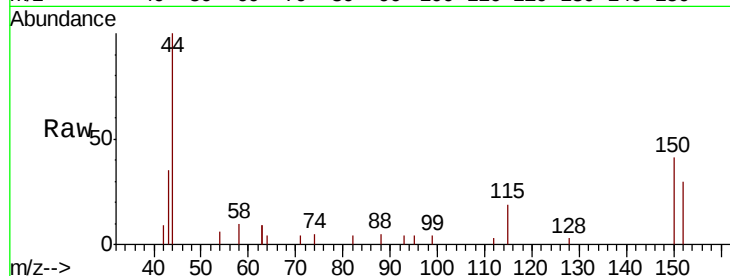


#1

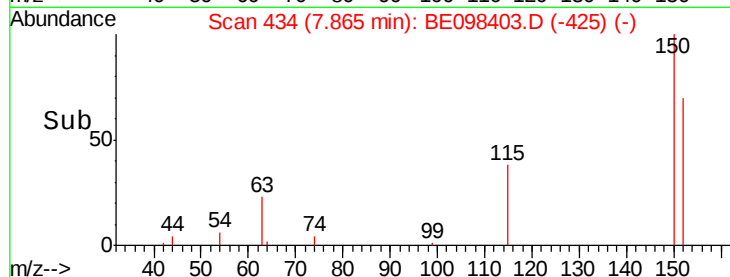
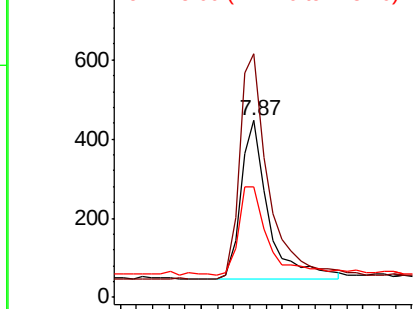
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.87 min Scan# 434  
Delta R.T. 0.00 min  
Lab File: BE098403.D  
Acq: 13 Dec 2018 18:58

Instrument :  
BNA\_E  
ClientSampleId :  
RE-122D1-20181206

Tgt Ion:152 Resp: 938  
Ion Ratio Lower Upper  
152 100  
150 137.9 124.2 186.4  
115 62.8 53.9 80.9



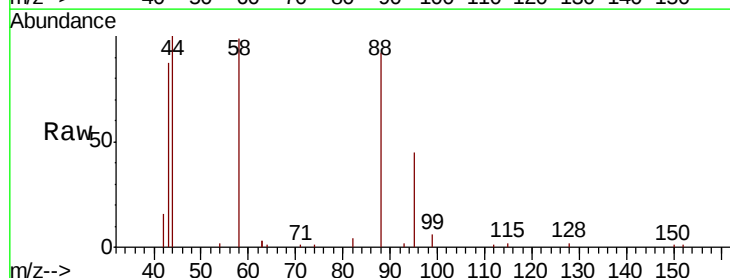
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



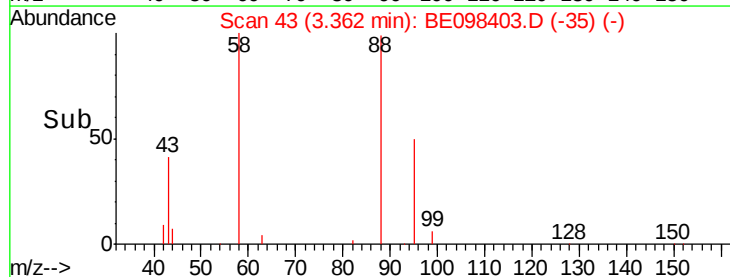
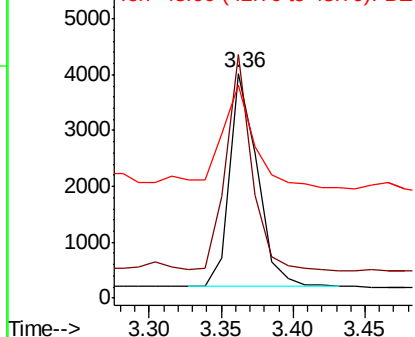
#2

1,4-Dioxane  
Concen: 3.138 ng  
RT: 3.36 min Scan# 43  
Delta R.T. -0.01 min  
Lab File: BE098403.D  
Acq: 13 Dec 2018 18:58

Tgt Ion: 88 Resp: 5091  
Ion Ratio Lower Upper  
88 100  
58 95.8 75.0 112.6  
43 59.9 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: 0.051 ng

RT: 3.67 min Scan# 70

Delta R.T. -0.02 min

Lab File: BE098403.D

Acq: 13 Dec 2018 18:58

Instrument :

BNA\_E

ClientSampleId :

RE-122D1-20181206

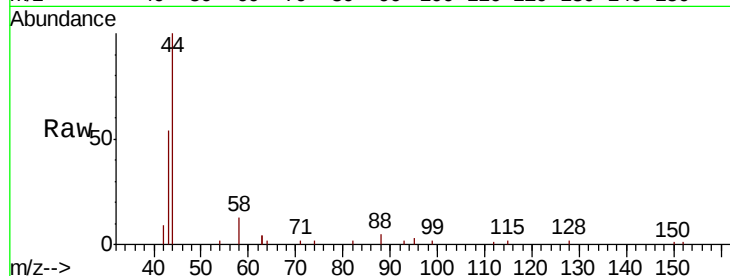
Tgt Ion: 42 Resp: 75

Ion Ratio Lower Upper

42 100

74 0.0 0.0 0.0

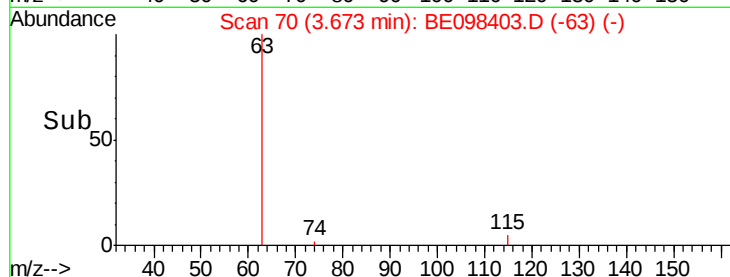
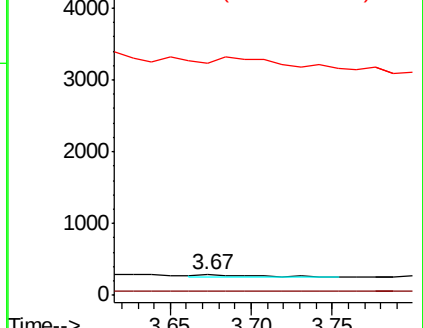
44 536.0 0.0 0.0#



Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0



#4

2-Fluorophenol

Concen: 0.200 ng

RT: 5.46 min Scan# 225

Delta R.T. 0.01 min

Lab File: BE098403.D

Acq: 13 Dec 2018 18:58

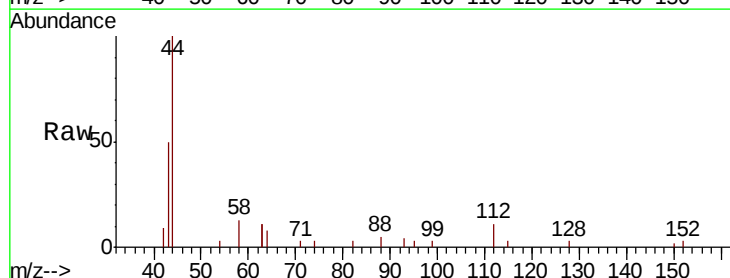
Tgt Ion: 112 Resp: 439

Ion Ratio Lower Upper

112 100

64 79.5 59.8 89.8

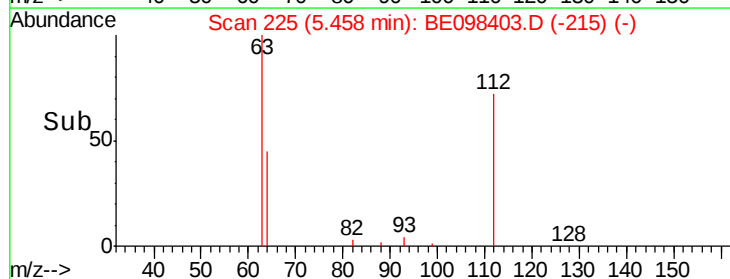
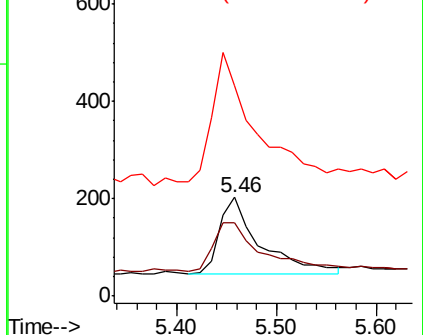
63 179.0 133.7 200.5



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.121 ng

RT: 7.04 min Scan# 362

Delta R.T. -0.01 min

Lab File: BE098403.D

Acq: 13 Dec 2018 18:58

Instrument :

BNA\_E

ClientSampleId :

RE-122D1-20181206

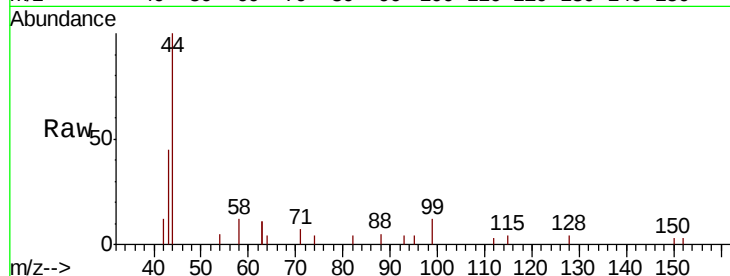
Tgt Ion: 99 Resp: 375

Ion Ratio Lower Upper

99 100

42 0.0 26.3 39.5#

71 41.3 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

7.04

250

200

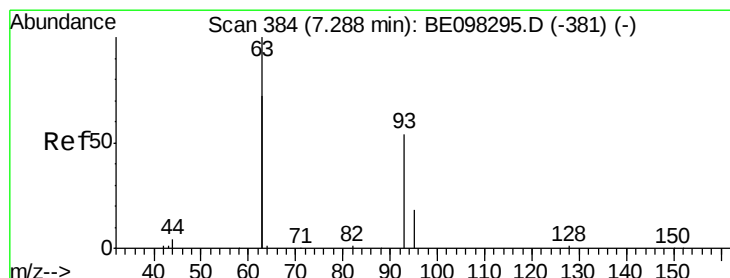
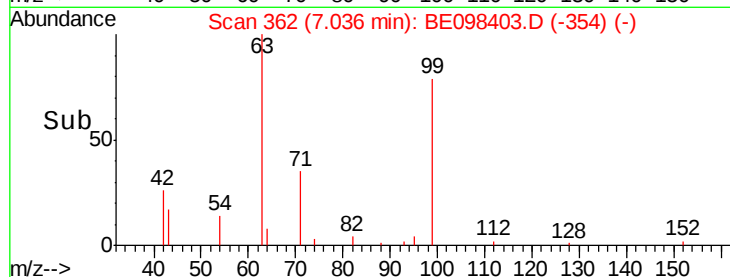
150

100

50

0

Time-->



#6

bis(2-Chloroethyl)ether

Concen: 0.031 ng

RT: 7.29 min Scan# 384

Delta R.T. 0.00 min

Lab File: BE098403.D

Acq: 13 Dec 2018 18:58

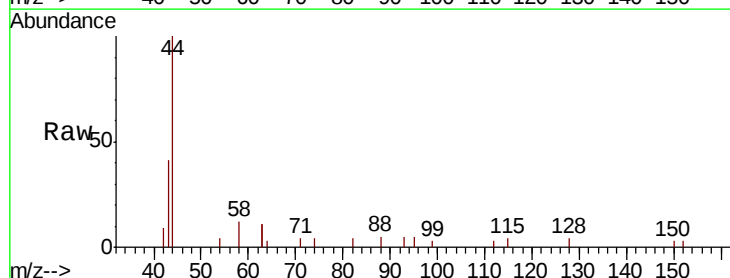
Tgt Ion: 93 Resp: 91

Ion Ratio Lower Upper

93 100

63 249.5 264.4 396.6#

95 25.3 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

400

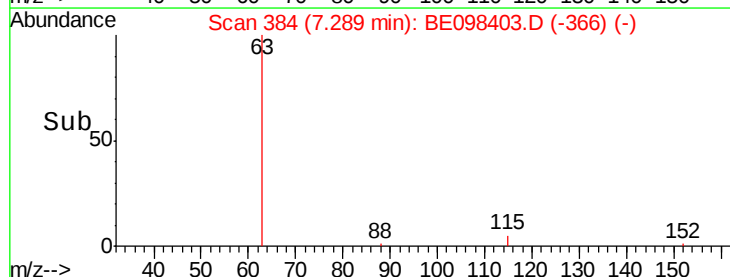
300

200

100

0

Time-->



7.29



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.67 min Scan# 654

Delta R.T. -0.00 min

Lab File: BE098403.D

Acq: 13 Dec 2018 18:58

Instrument :

BNA\_E

ClientSampleId :

RE-122D1-20181206

Tgt Ion: 136 Resp: 3917

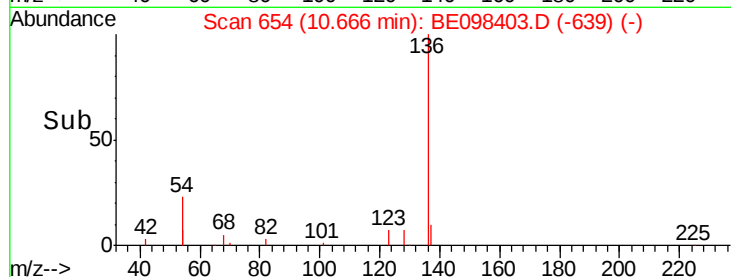
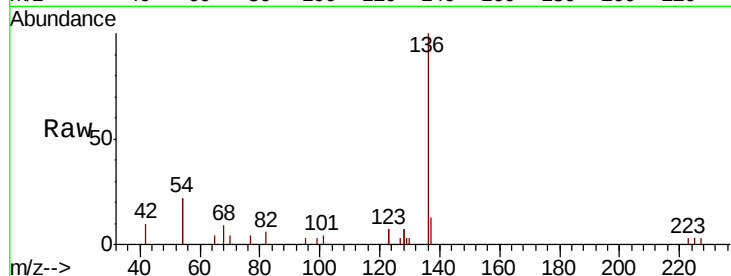
Ion Ratio Lower Upper

136 100

137 13.3 9.2 13.8

54 44.1 28.4 42.6#

68 8.6 5.4 8.0#

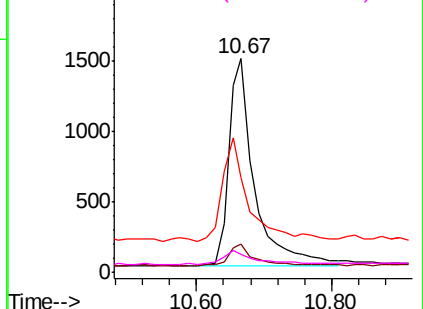


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.394 ng

RT: 9.03 min Scan# 528

Delta R.T. 0.01 min

Lab File: BE098403.D

Acq: 13 Dec 2018 18:58

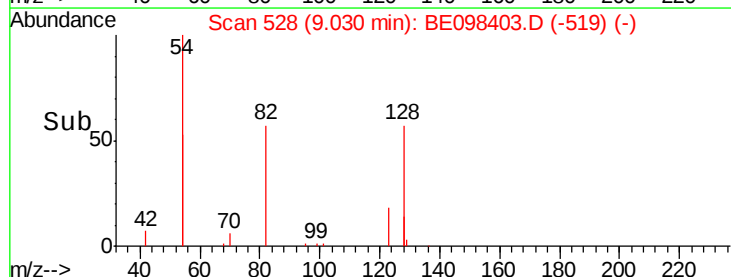
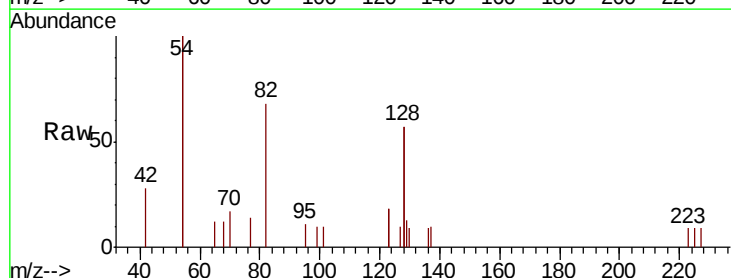
Tgt Ion: 82 Resp: 1405

Ion Ratio Lower Upper

82 100

128 166.9 102.4 153.6#

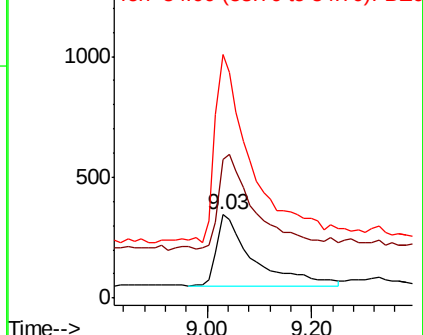
54 293.0 221.8 332.8

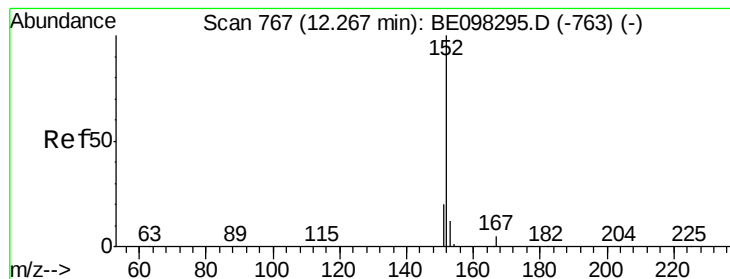


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#11

2-Methylnaphthalene-d10

Concen: 0.425 ng

RT: 12.27 min Scan# 767

Delta R.T. -0.00 min

Lab File: BE098403.D

Acq: 13 Dec 2018 18:58

Instrument :

BNA\_E

ClientSampleId :

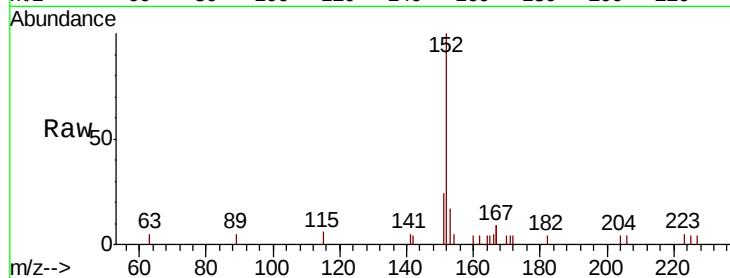
RE-122D1-20181206

Tgt Ion:152 Resp: 2709

Ion Ratio Lower Upper

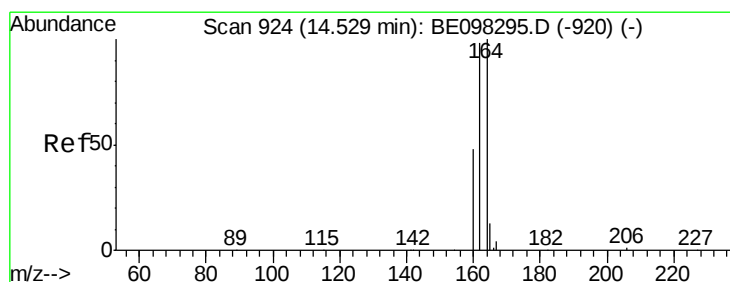
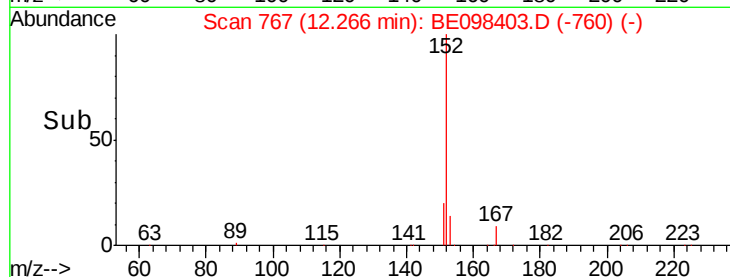
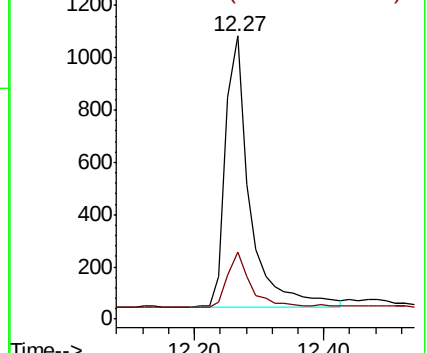
152 100

151 19.8 16.2 24.4



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.53 min Scan# 924

Delta R.T. -0.00 min

Lab File: BE098403.D

Acq: 13 Dec 2018 18:58

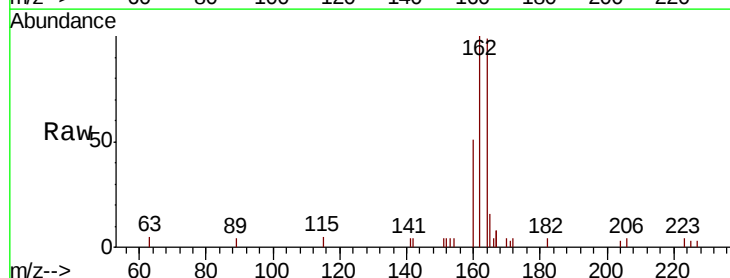
Tgt Ion:164 Resp: 2459

Ion Ratio Lower Upper

164 100

162 101.1 77.6 116.4

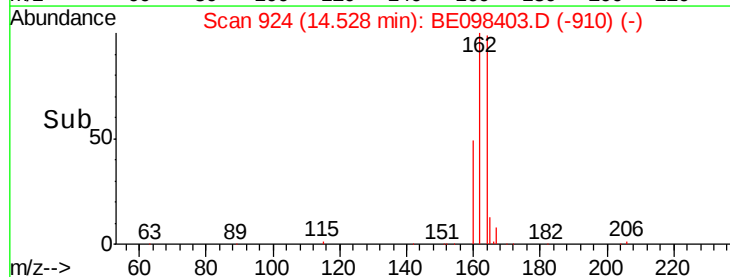
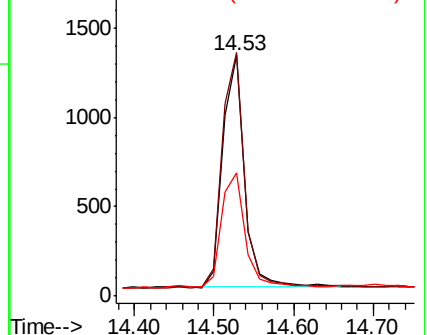
160 51.1 36.0 54.0

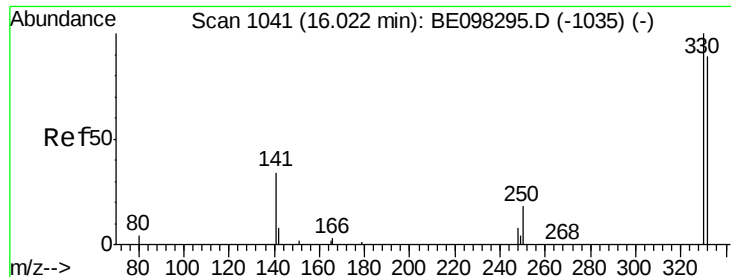


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

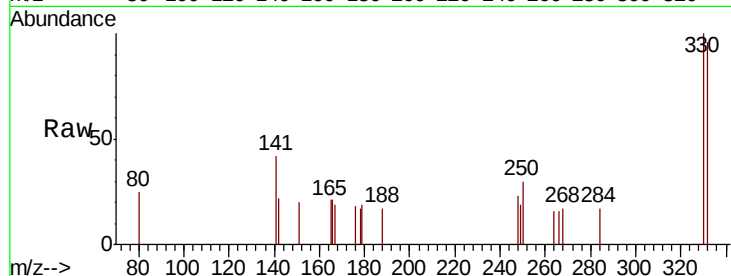




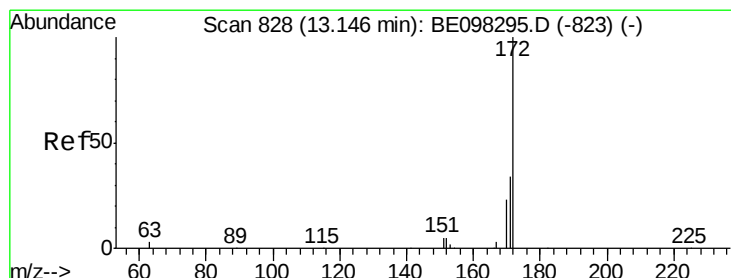
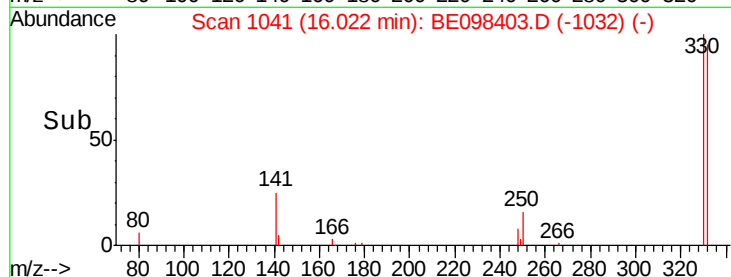
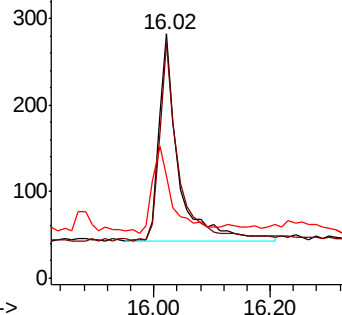
#14  
 2,4,6-Tribromophenol  
 Concen: 0.611 ng  
 RT: 16.02 min Scan# 1041  
 Delta R.T. -0.00 min  
 Lab File: BE098403.D  
 Acq: 13 Dec 2018 18:58

Instrument :  
 BNA\_E  
 ClientSampleId :  
 RE-122D1-20181206

Tgt Ion: 330 Resp: 552  
 Ion Ratio Lower Upper  
 330 100  
 332 94.9 76.2 114.4  
 141 43.3 39.0 58.4

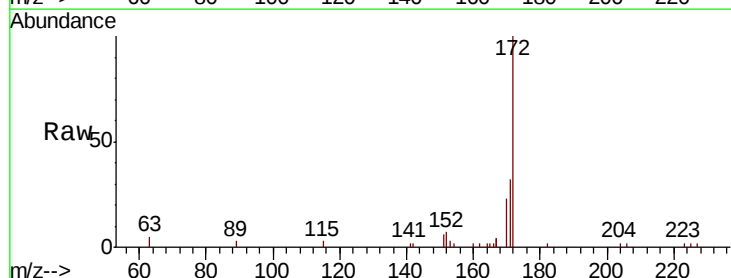


Abundance Ion 330.00 (329.70 to 330.70): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

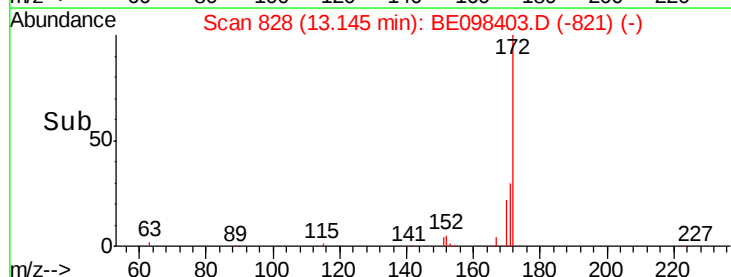
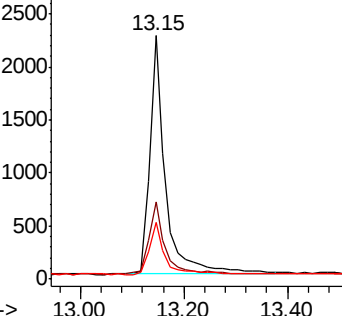


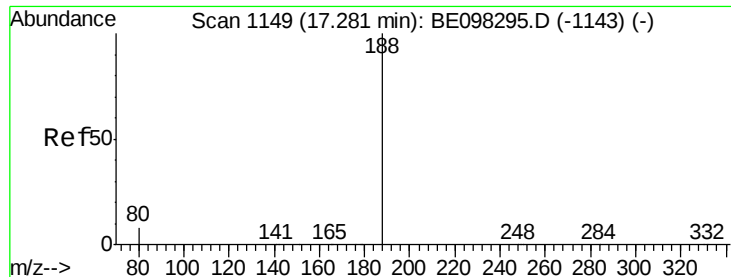
#15  
 2-Fluorobiphenyl  
 Concen: 0.467 ng  
 RT: 13.15 min Scan# 828  
 Delta R.T. -0.00 min  
 Lab File: BE098403.D  
 Acq: 13 Dec 2018 18:58

Tgt Ion: 172 Resp: 4847  
 Ion Ratio Lower Upper  
 172 100  
 171 31.6 27.5 41.3  
 170 23.1 19.6 29.4



Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.27 min Scan# 1148

Delta R.T. -0.01 min

Lab File: BE098403.D

Acq: 13 Dec 2018 18:58

Instrument :

BNA\_E

ClientSampleId :

RE-122D1-20181206

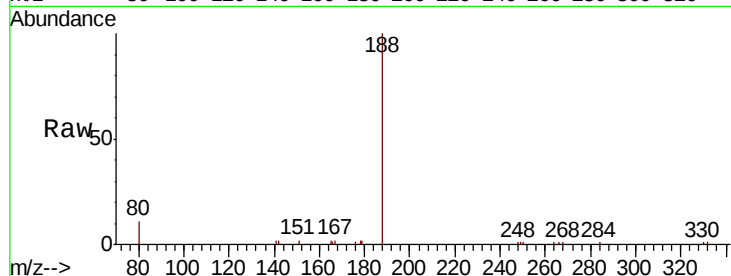
Tgt Ion:188 Resp: 7034

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

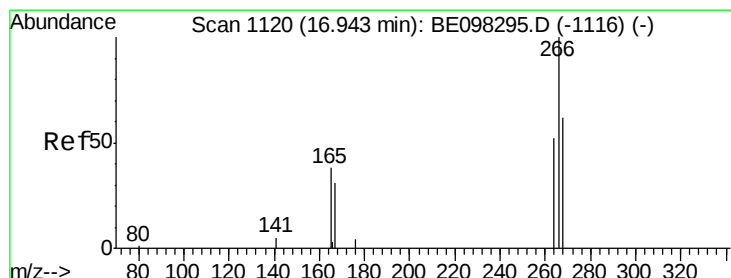
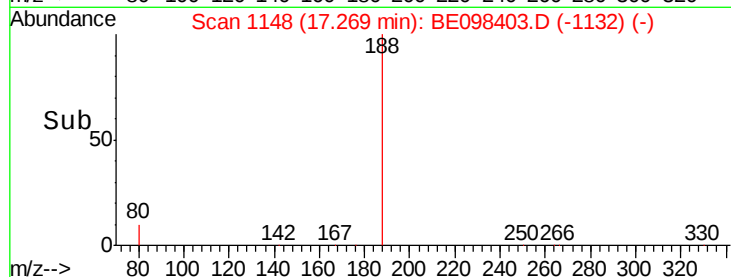
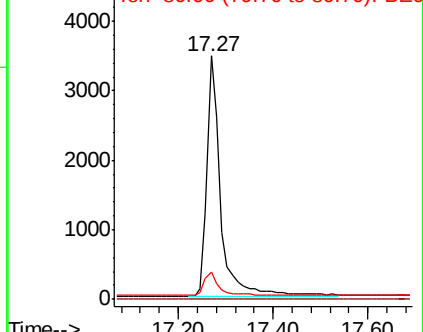
80 11.4 7.2 10.8#



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



#22

Pentachlorophenol

Concen: 0.032 ng

RT: 16.94 min Scan# 1120

Delta R.T. 0.00 min

Lab File: BE098403.D

Acq: 13 Dec 2018 18:58

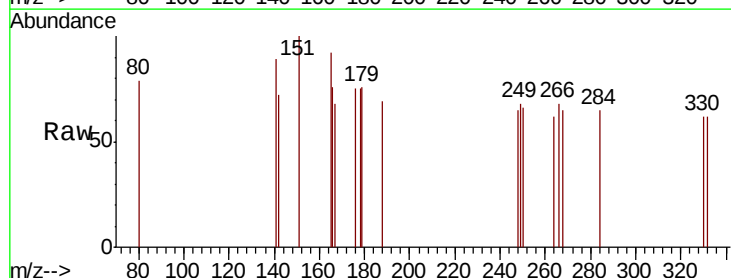
Tgt Ion:266 Resp: 10

Ion Ratio Lower Upper

266 100

264 91.7 59.0 88.4#

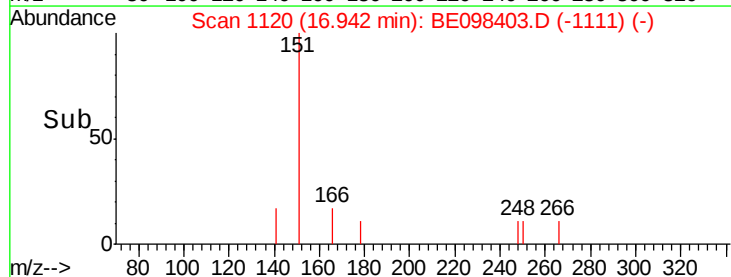
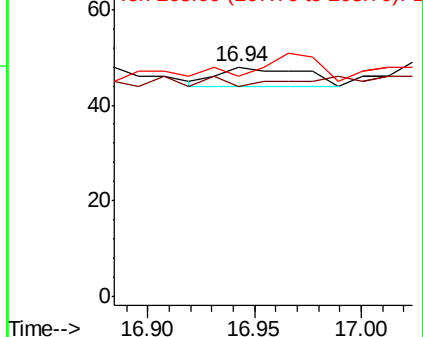
268 95.8 55.1 82.7#

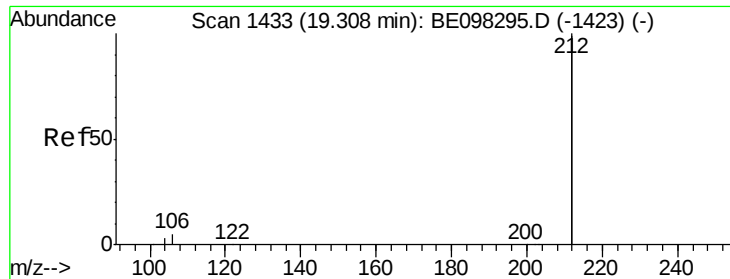


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E

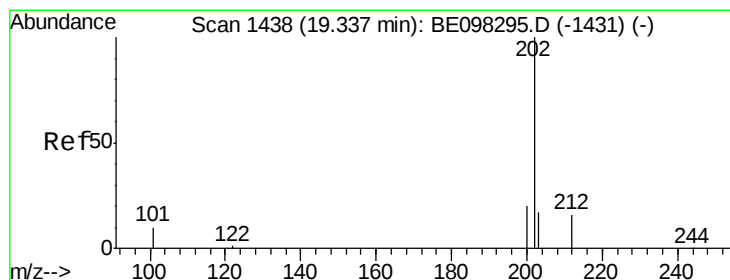
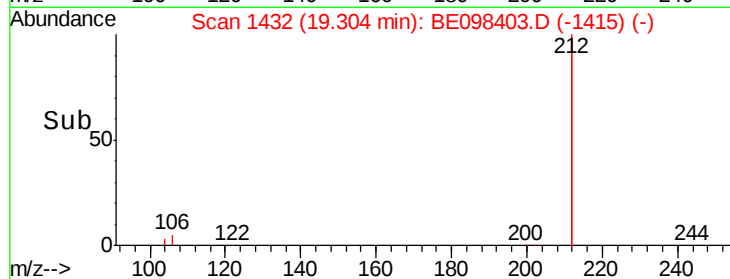
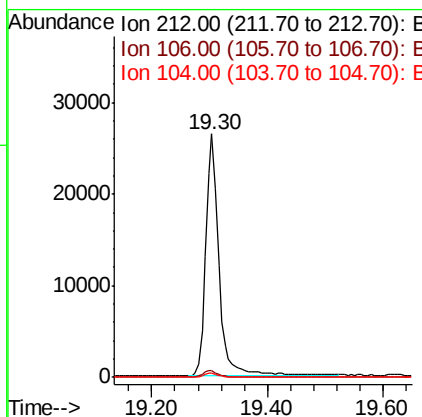
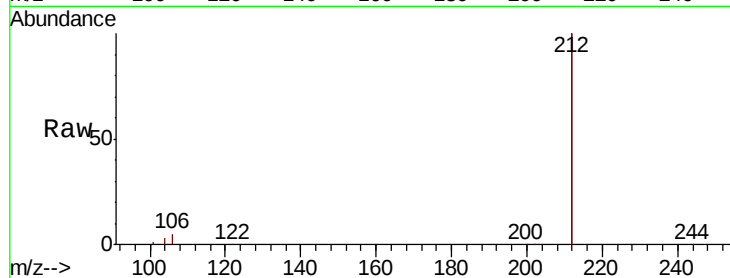




#25  
 Fluoranthene-d10  
 Concen: 0.462 ng  
 RT: 19.30 min Scan# 1432  
 Delta R.T. -0.00 min  
 Lab File: BE098403.D  
 Acq: 13 Dec 2018 18:58

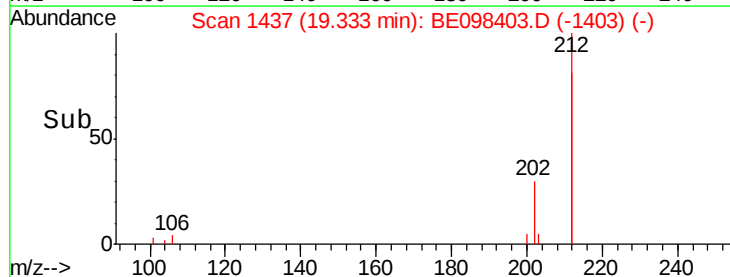
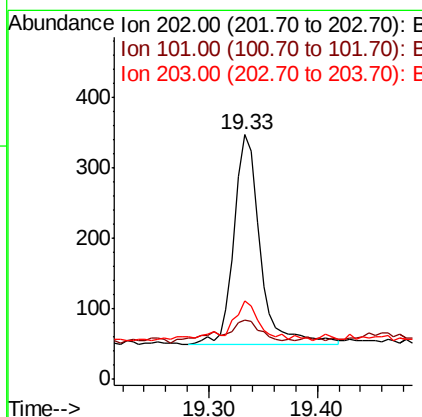
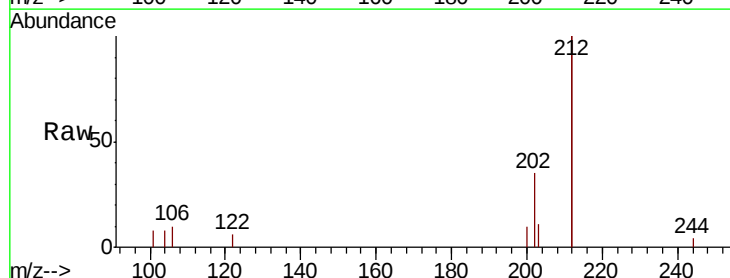
Instrument :  
 BNA\_E  
 ClientSampleId :  
 RE-122D1-20181206

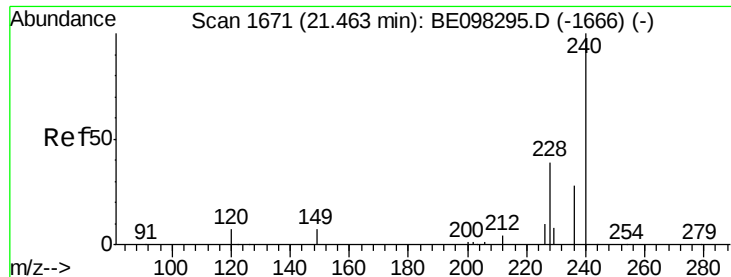
Tgt Ion: 212 Resp: 41683  
 Ion Ratio Lower Upper  
 212 100  
 106 2.6 2.2 3.2  
 104 1.5 1.3 1.9



#26  
 Fluoranthene  
 Concen: 0.022 ng  
 RT: 19.33 min Scan# 1437  
 Delta R.T. -0.00 min  
 Lab File: BE098403.D  
 Acq: 13 Dec 2018 18:58

Tgt Ion: 202 Resp: 494  
 Ion Ratio Lower Upper  
 202 100  
 101 9.9 8.0 12.0  
 203 20.4 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: BE098403.D

Acq: 13 Dec 2018 18:58

Instrument :

BNA\_E

ClientSampleId :

RE-122D1-20181206

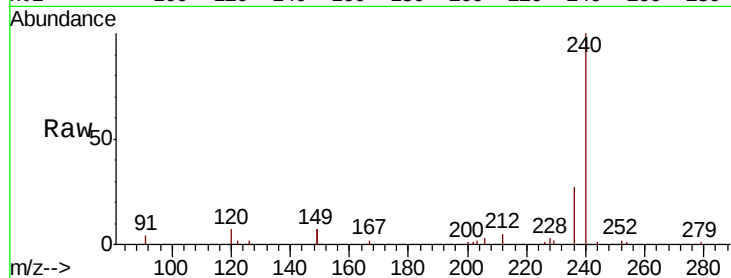
Tgt Ion:240 Resp: 8459

Ion Ratio Lower Upper

240 100

120 7.1 9.5 14.3#

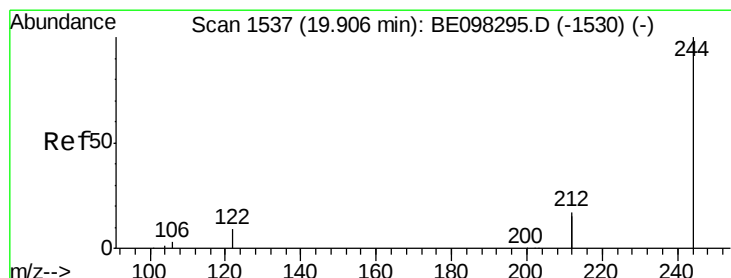
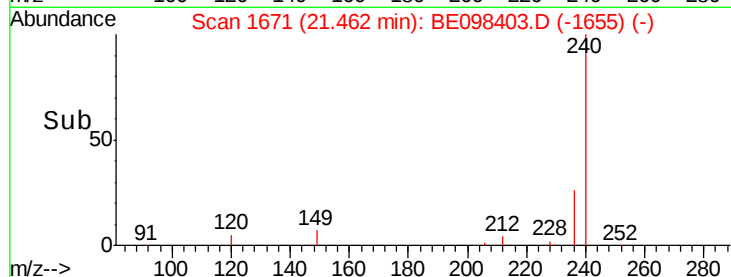
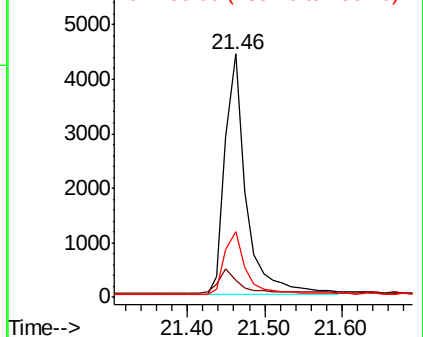
236 26.7 22.7 34.1



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



#29

Terphenyl-d14

Concen: 0.384 ng

RT: 19.90 min Scan# 1536

Delta R.T. -0.00 min

Lab File: BE098403.D

Acq: 13 Dec 2018 18:58

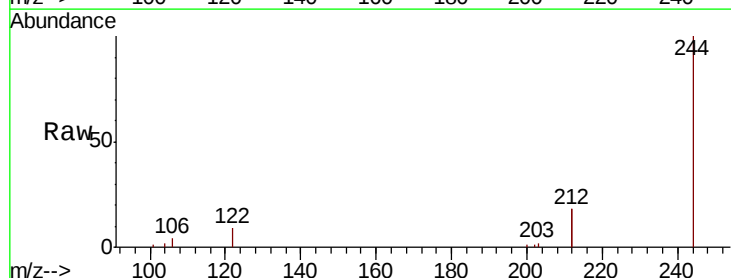
Tgt Ion:244 Resp: 7894

Ion Ratio Lower Upper

244 100

212 36.9 27.4 41.0

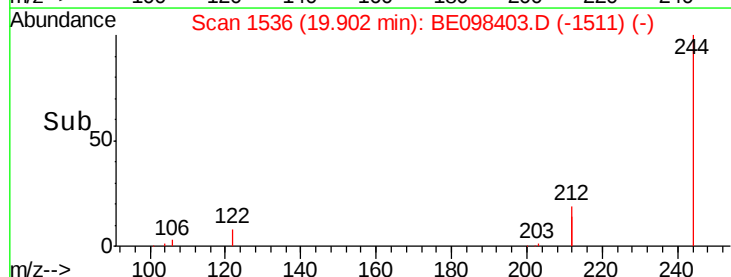
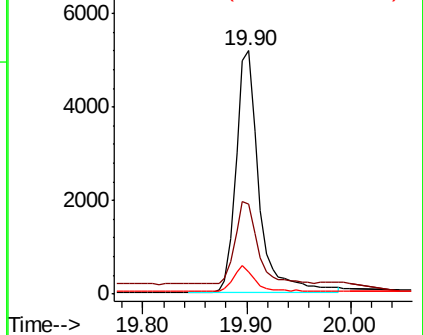
122 9.3 8.3 12.5

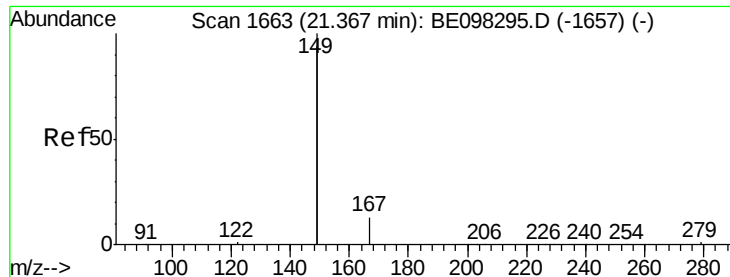


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

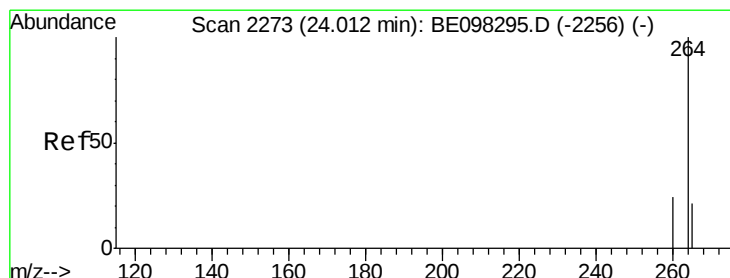
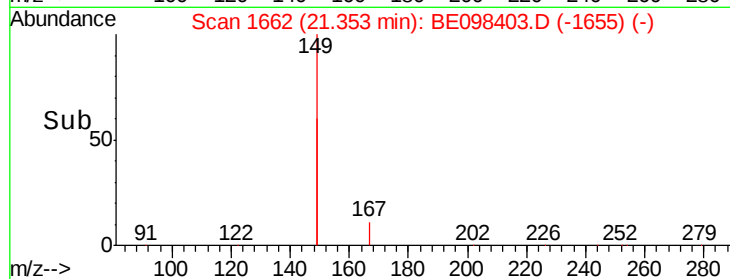
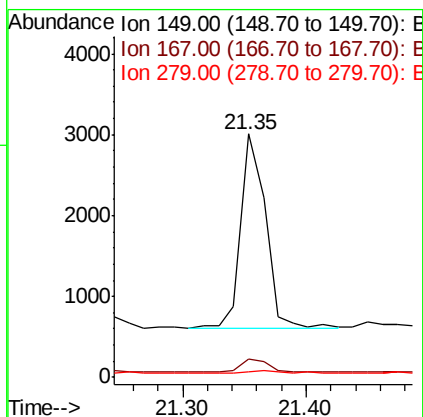
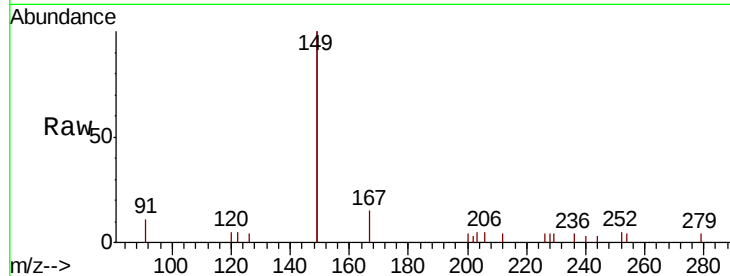




#32  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.068 ng  
 RT: 21.35 min Scan# 1662  
 Delta R.T. -0.01 min  
 Lab File: BE098403.D  
 Acq: 13 Dec 2018 18:58

Instrument :  
 BNA\_E  
 ClientSampleId :  
 RE-122D1-20181206

Tgt Ion:149 Resp: 3339  
 Ion Ratio Lower Upper  
 149 100  
 167 8.0 5.7 8.5  
 279 1.6 1.0 1.4#



#34  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 24.00 min Scan# 2269  
 Delta R.T. -0.01 min  
 Lab File: BE098403.D  
 Acq: 13 Dec 2018 18:58

Tgt Ion:264 Resp: 7934  
 Ion Ratio Lower Upper  
 264 100  
 260 25.6 20.2 30.2  
 265 27.3 25.2 37.8

