

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE071318\  
 Data File : BE096913.D  
 Acq On : 13 Jul 2018 19:08  
 Operator : SJ/JU  
 Sample : J3170-11  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :

Quant Time: Jul 13 23:06:51 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE062018.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jul 13 17:02:57 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.40  | 152  | 2097     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.16 | 136  | 10393    | 0.40 | ng    | 0.01     |
| 13) Acenaphthene-d10      | 14.03 | 164  | 5782     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 16.77 | 188  | 15713    | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 20.98 | 240  | 13677    | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 23.21 | 264  | 14384    | 0.40 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.05  | 112  | 1254     | 0.27 | ng    | 0.00     |
| 5) Phenol-d6                | 6.60  | 99   | 1097     | 0.16 | ng    | 0.00     |
| 8) Nitrobenzene-d5          | 8.53  | 82   | 3671     | 0.58 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10 | 11.73 | 152  | 7130     | 0.48 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol    | 15.52 | 330  | 718      | 0.52 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl        | 12.64 | 172  | 13360    | 0.63 | ng    | 0.00     |
| 25) Fluoranthene-d10        | 18.81 | 212  | 77534    | 0.56 | ng    | 0.00     |
| 29) Terphenyl-d14           | 19.43 | 244  | 19960    | 0.76 | ng    | 0.00     |

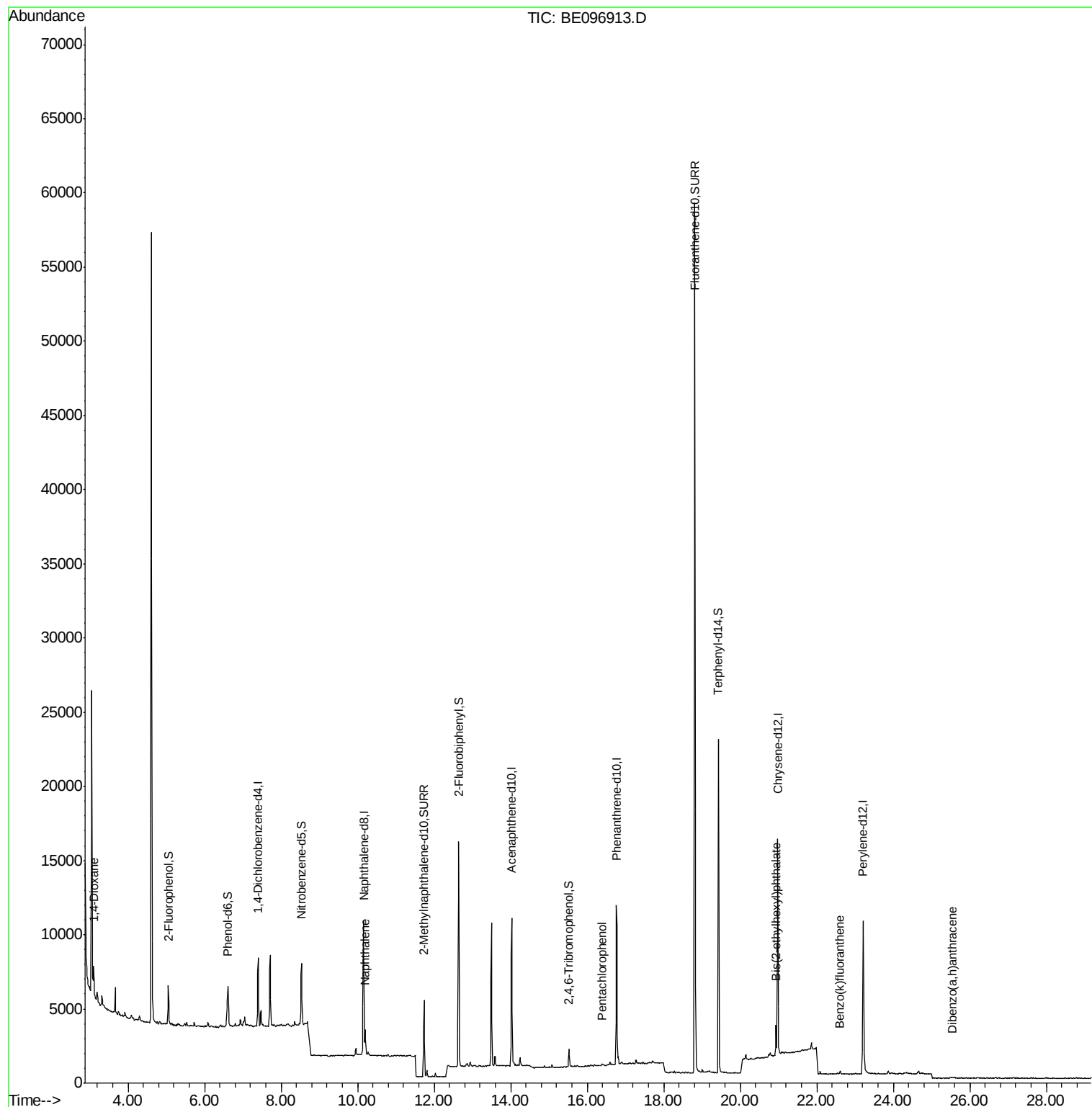
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 2) 1,4-Dioxane                 | 3.09  | 88   | 783      | 0.249 | ng    | 90     |
| 9) Naphthalene                 | 10.20 | 128  | 2449     | 0.026 | ng    | # 92   |
| 22) Pentachlorophenol          | 16.38 | 266  | 8        | 0.041 | ng    | 97     |
| 32) Bis(2-ethylhexyl)phthalate | 20.93 | 149  | 2305     | 0.085 | ng    | # 98   |
| 36) Benzo(k)fluoranthene       | 22.59 | 252  | 57       | 0.084 | ng    | # 1    |
| 38) Dibenzo(a,h)anthracene     | 25.53 | 278  | 3        | 0.109 | ng    | # 1    |

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

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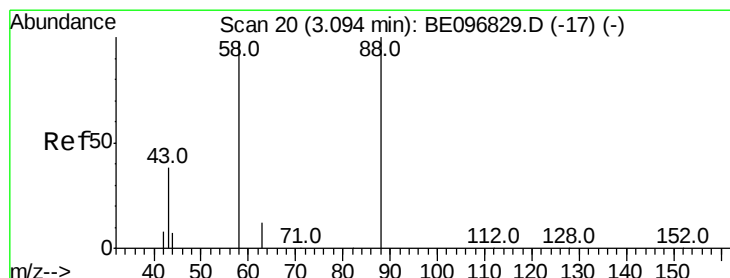
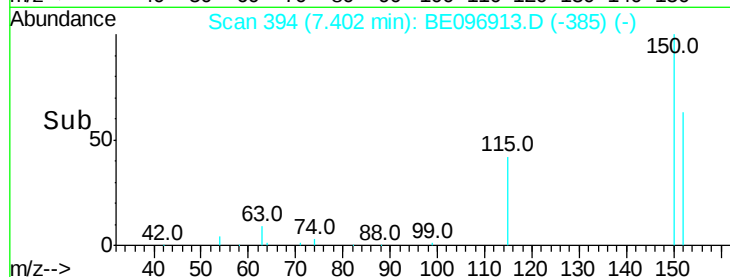
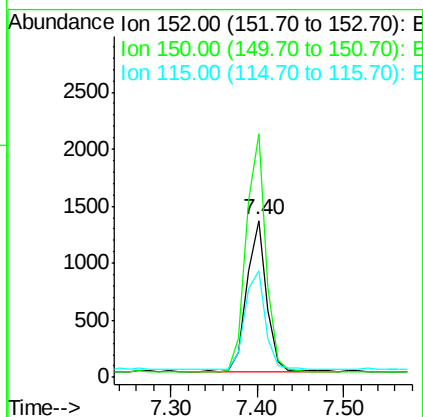
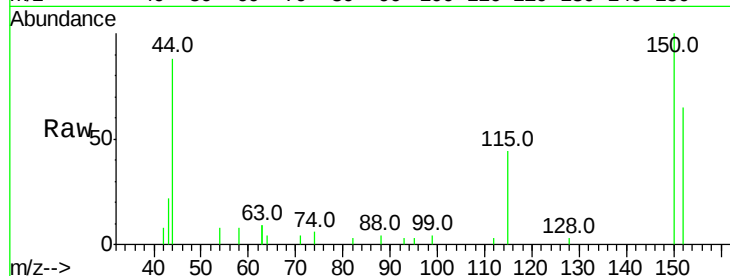


#1

1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.40 min Scan# 394  
Delta R.T. 0.01 min  
Lab File: BE096913.D  
Acq: 13 Jul 2018 19:08

Instrument :  
BNA\_E  
ClientSampleId :

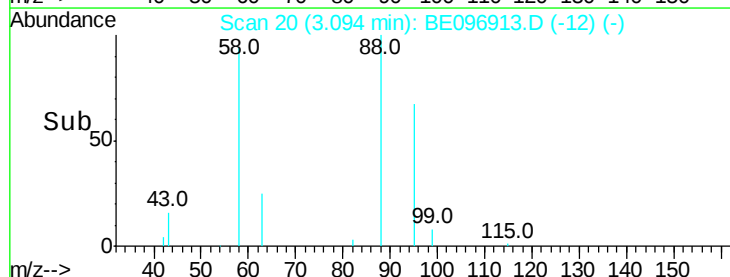
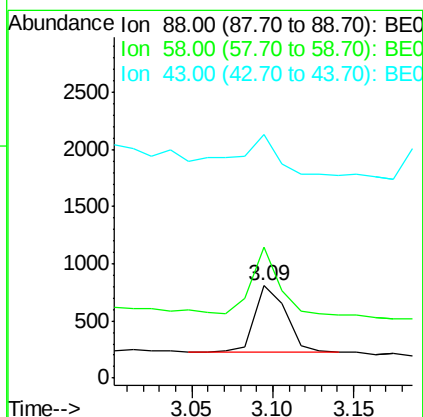
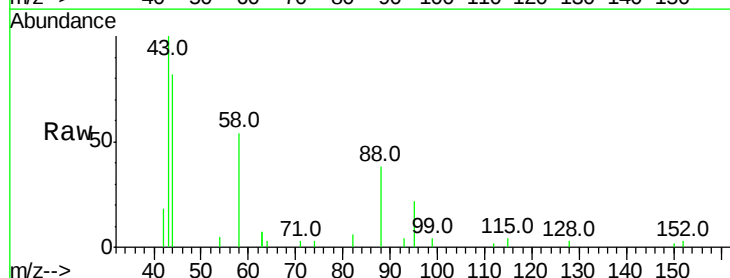
Tot Ion:152 Resp: 2097  
Ion Ratio Lower Upper  
152 100  
150 155.0 117.2 175.8  
115 68.3 57.0 85.6

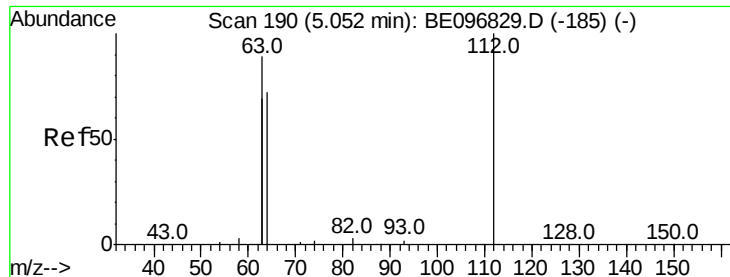


#2

1,4-Dioxane  
Concen: 0.249 ng  
RT: 3.09 min Scan# 20  
Delta R.T. -0.00 min  
Lab File: BE096913.D  
Acq: 13 Jul 2018 19:08

Tgt Ion: 88 Resp: 783  
Ion Ratio Lower Upper  
88 100  
58 90.2 63.2 94.8  
43 56.2 41.2 61.8





#4

2-Fluorophenol

Concen: 0.268 ng

RT: 5.05 min Scan# 190

Delta R.T. -0.00 min

Lab File: BE096913.D

Acq: 13 Jul 2018 19:08

Instrument :

BNA\_E

ClientSampleId :

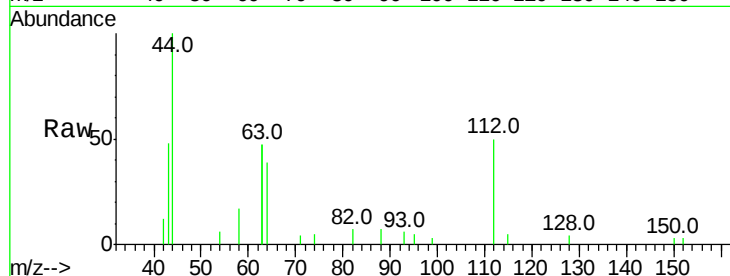
Tot Ion:112 Resp: 1254

Ion Ratio Lower Upper

112 100

64 66.3 60.1 90.1

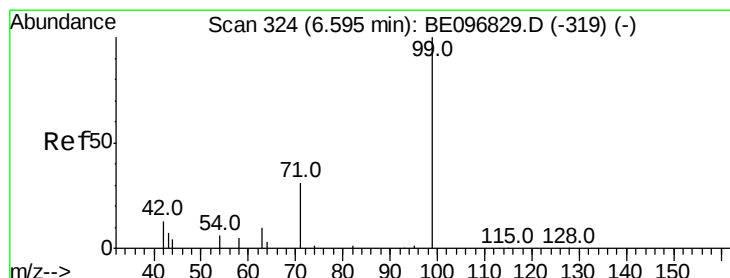
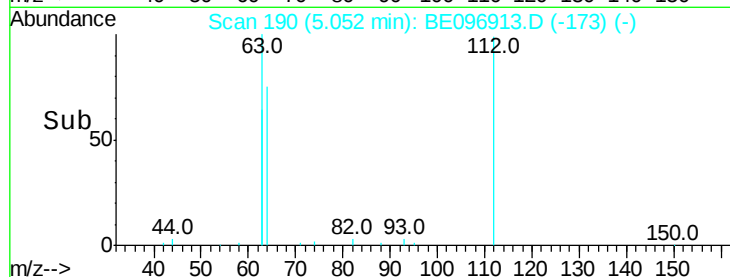
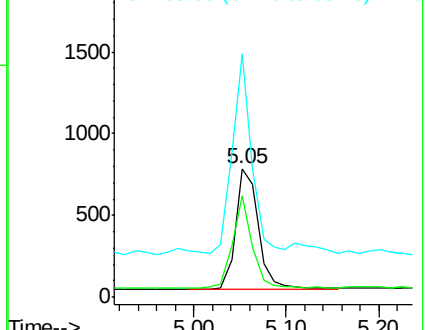
63 143.0 116.8 175.2



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: 0.157 ng

RT: 6.60 min Scan# 324

Delta R.T. 0.01 min

Lab File: BE096913.D

Acq: 13 Jul 2018 19:08

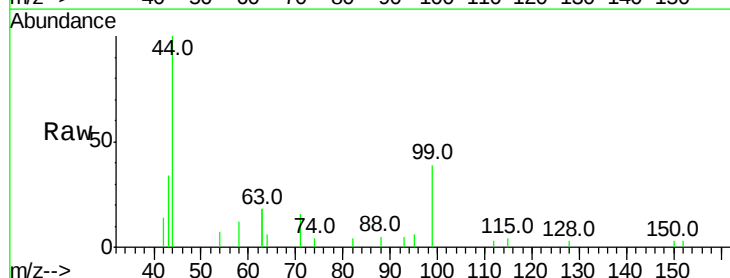
Tgt Ion: 99 Resp: 1097

Ion Ratio Lower Upper

99 100

42 35.2 20.2 30.2#

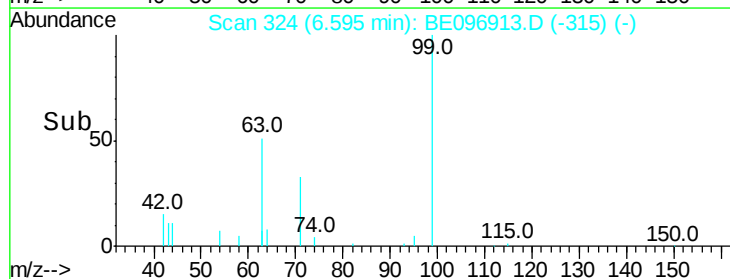
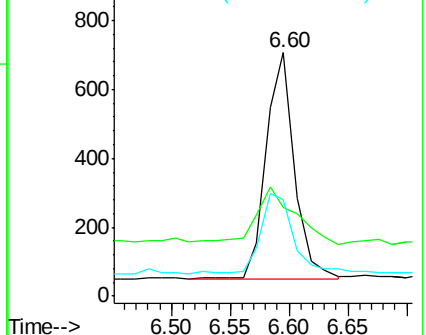
71 41.8 28.4 42.6

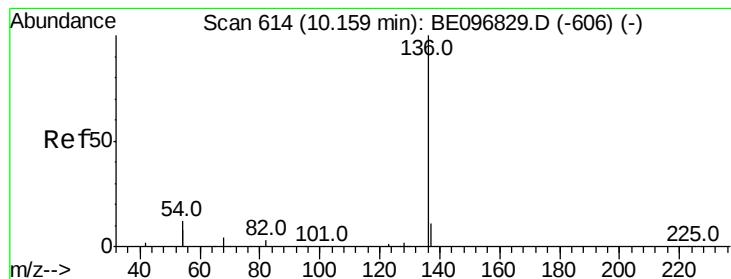


Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.16 min Scan# 614

Delta R.T. 0.01 min

Lab File: BE096913.D

Acq: 13 Jul 2018 19:08

Instrument :

BNA\_E

ClientSampleId :

Tot Ion:136 Resp: 10393

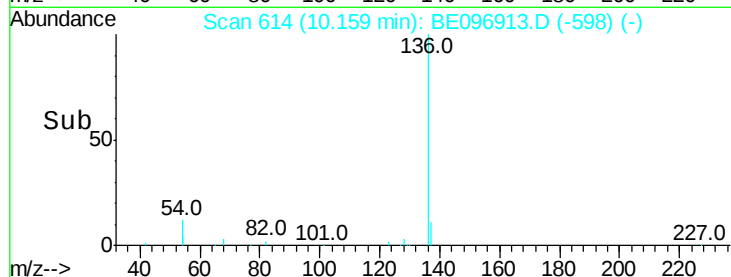
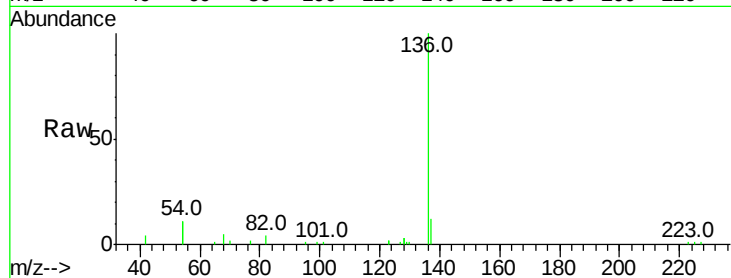
Ion Ratio Lower Upper

136 100

137 11.7 9.5 14.3

54 22.9 29.1 43.7#

68 5.1 6.2 9.2#



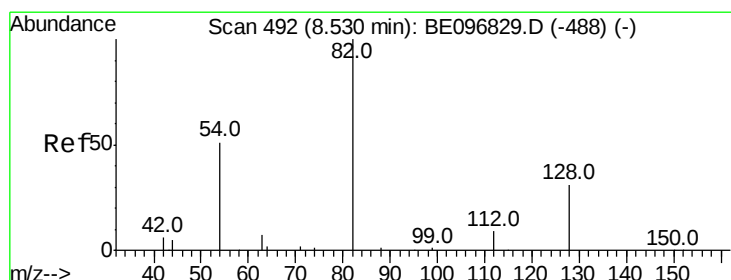
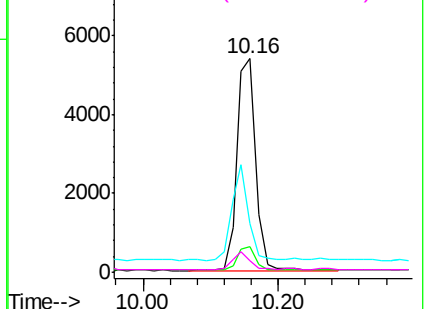
Abundance

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: 0.583 ng

RT: 8.53 min Scan# 492

Delta R.T. 0.01 min

Lab File: BE096913.D

Acq: 13 Jul 2018 19:08

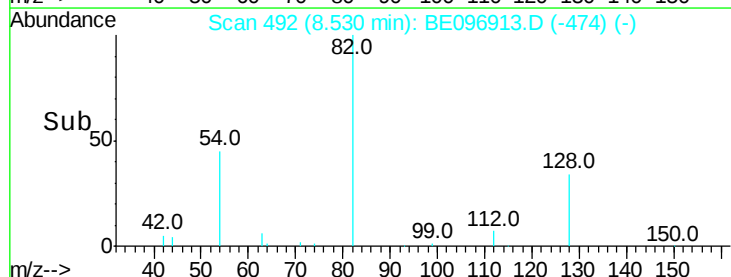
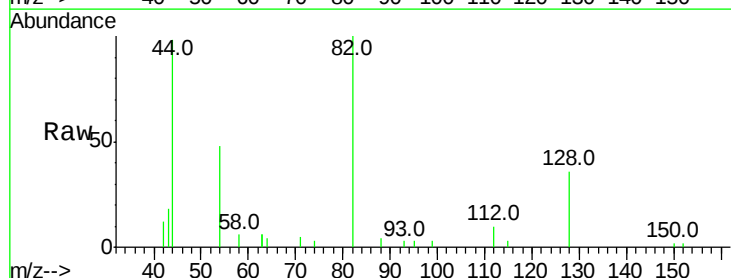
Tgt Ion: 82 Resp: 3671

Ion Ratio Lower Upper

82 100

128 35.7 24.0 36.0

54 47.7 40.0 60.0

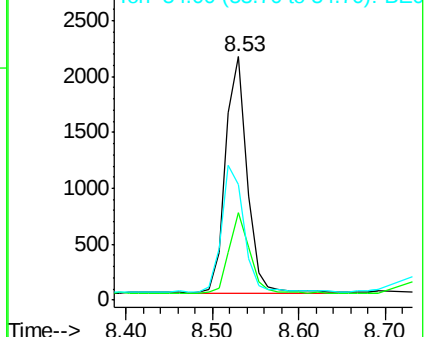


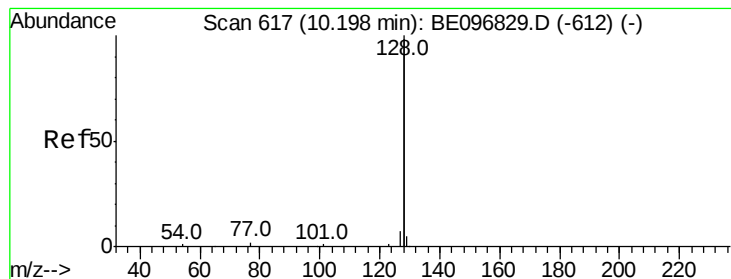
Abundance

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: 0.026 ng

RT: 10.20 min Scan# 617

Delta R.T. -0.00 min

Lab File: BE096913.D

Acq: 13 Jul 2018 19:08

Instrument :

BNA\_E

ClientSampleId :

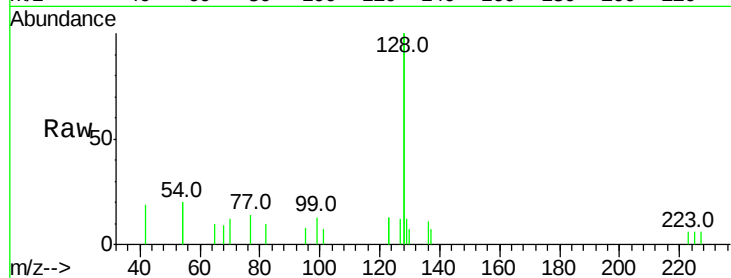
Tot Ion:128 Resp: 2449

Ion Ratio Lower Upper

128 100

129 6.1 2.6 3.8#

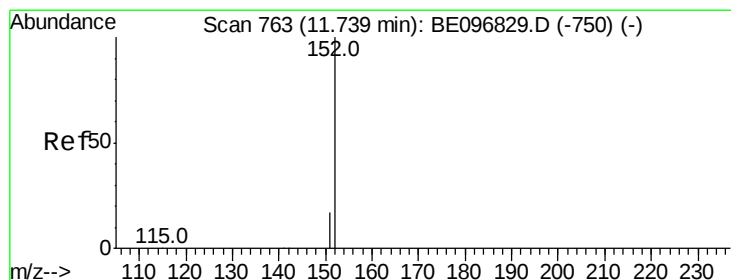
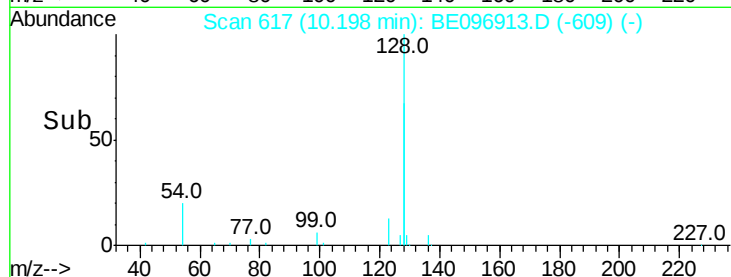
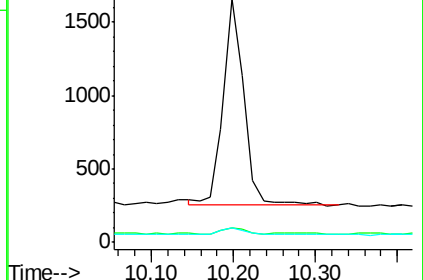
127 5.8 2.8 4.2#



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



#11

2-Methylnaphthalene-d10

Concen: 0.477 ng

RT: 11.73 min Scan# 762

Delta R.T. -0.00 min

Lab File: BE096913.D

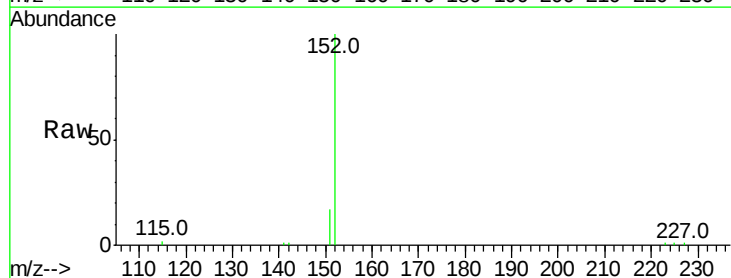
Acq: 13 Jul 2018 19:08

Tgt Ion:152 Resp: 7130

Ion Ratio Lower Upper

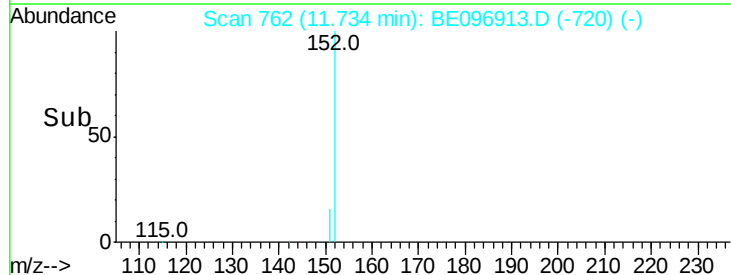
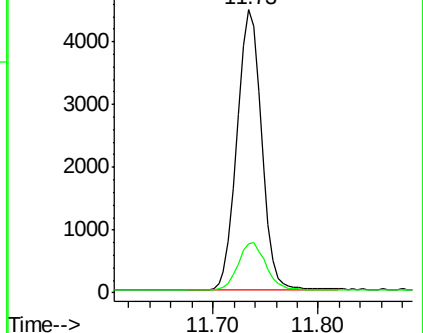
152 100

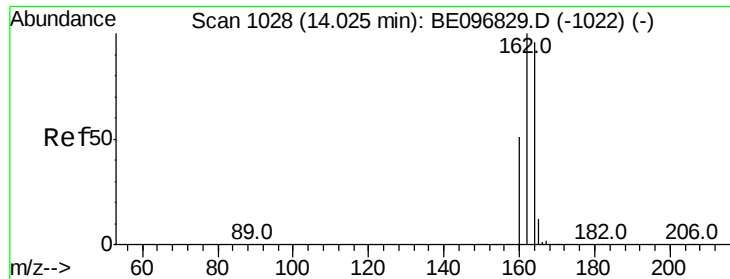
151 19.2 15.4 23.0



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

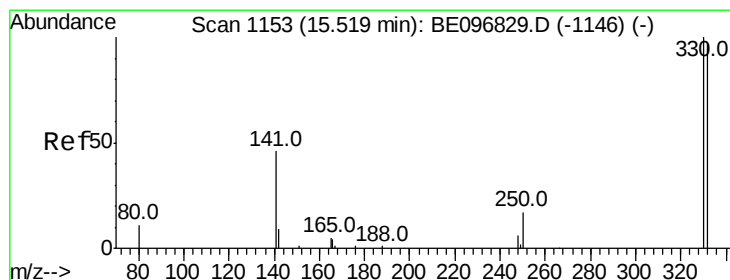
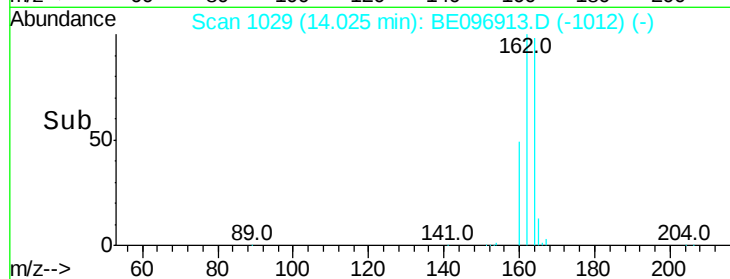
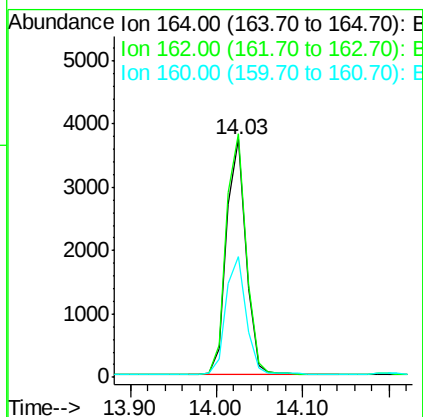
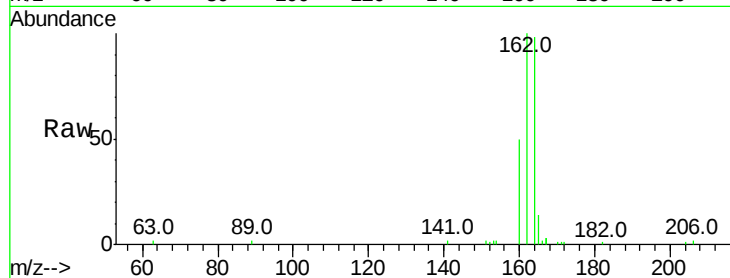




#13  
 Acenaphthene-d10  
 Concen: 0.400 ng  
 RT: 14.03 min Scan# 1029  
 Delta R.T. -0.00 min  
 Lab File: BE096913.D  
 Acq: 13 Jul 2018 19:08

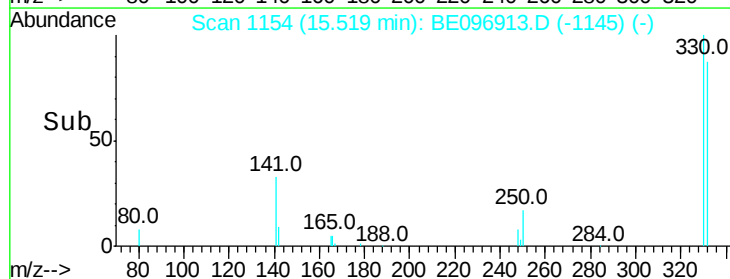
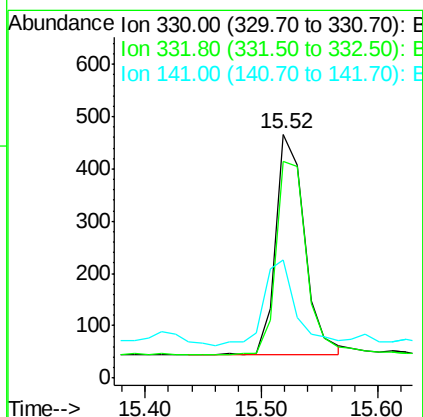
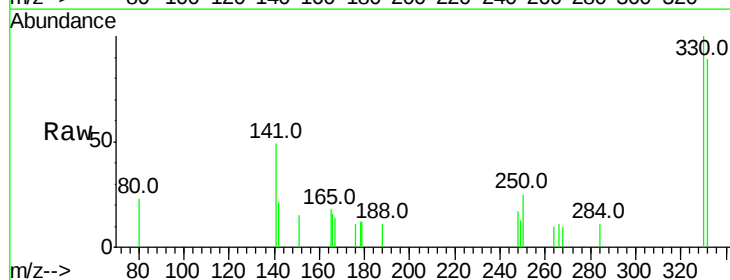
Instrument :  
 BNA\_E  
 ClientSampleId :

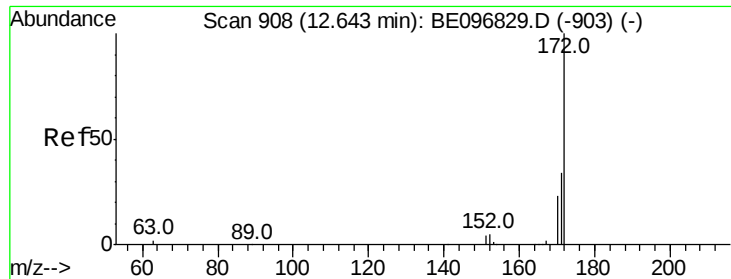
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 Ion Ratio Lower Upper  
 164 100  
 162 102.3 83.1 124.7  
 160 50.9 37.1 55.7



#14  
 2,4,6-Tribromophenol  
 Concen: 0.518 ng  
 RT: 15.52 min Scan# 1154  
 Delta R.T. 0.00 min  
 Lab File: BE096913.D  
 Acq: 13 Jul 2018 19:08

Tgt Ion:330 Resp: 718  
 Ion Ratio Lower Upper  
 330 100  
 332 92.1 152.7 229.1#  
 141 43.6 33.7 50.5

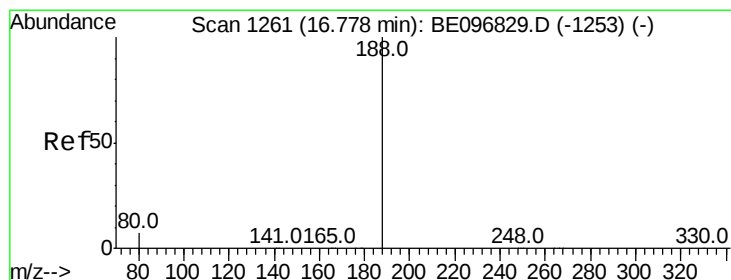
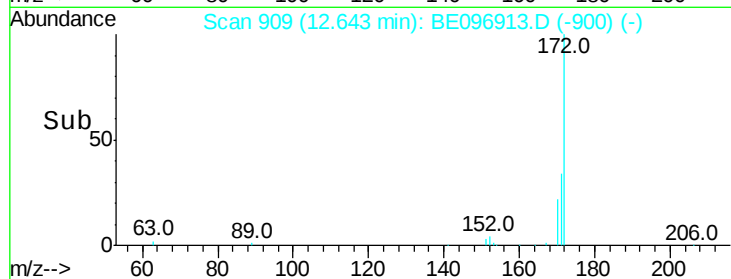
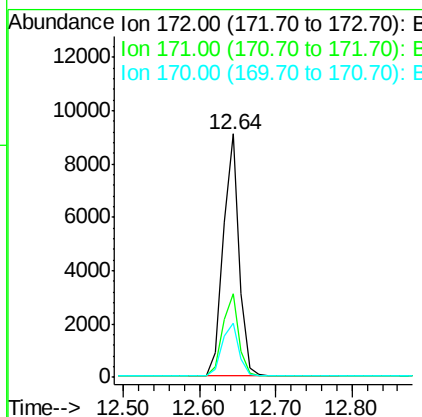
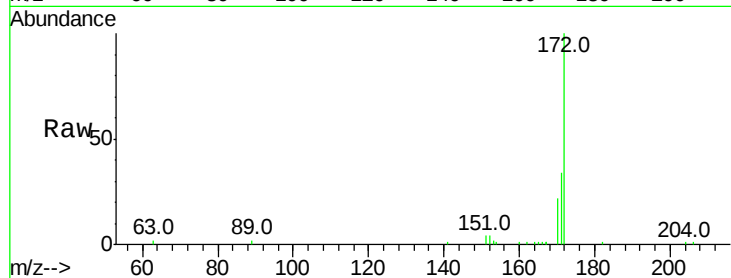




#15  
2-Fluorobiphenyl  
Concen: 0.631 ng  
RT: 12.64 min Scan# 909  
Delta R.T. -0.00 min  
Lab File: BE096913.D  
Acq: 13 Jul 2018 19:08

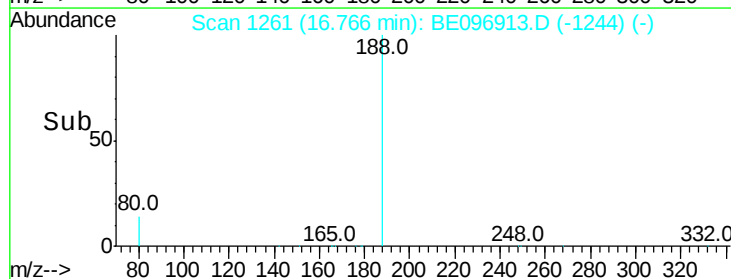
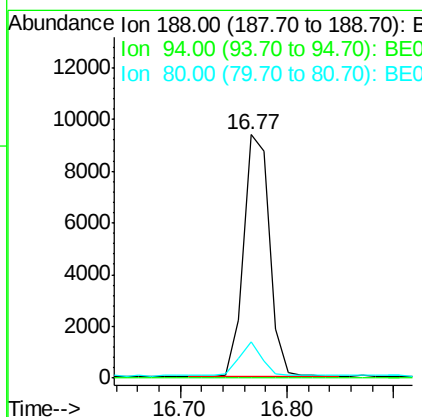
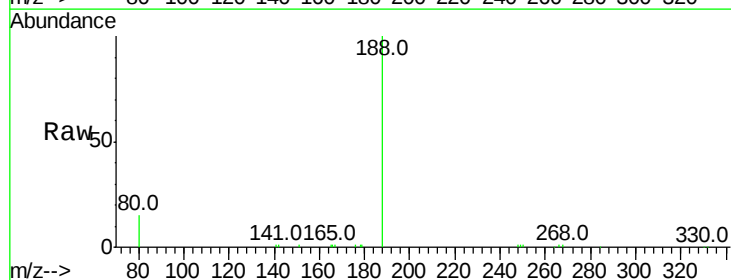
Instrument :  
BNA\_E  
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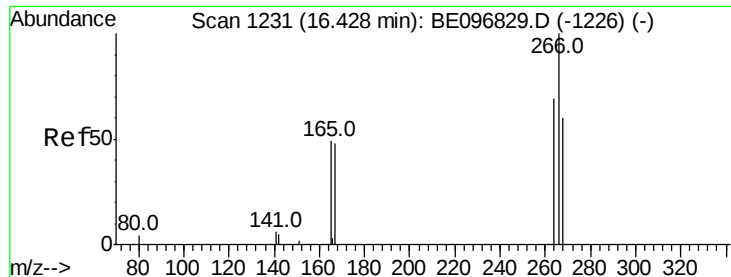
Tot Ion:172 Resp: 13360  
Ion Ratio Lower Upper  
172 100  
171 34.1 29.9 44.9  
170 22.2 21.8 32.8



#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.77 min Scan# 1261  
Delta R.T. 0.00 min  
Lab File: BE096913.D  
Acq: 13 Jul 2018 19:08

Tgt Ion:188 Resp: 15713  
Ion Ratio Lower Upper  
188 100  
94 0.0 3.9 5.9#  
80 14.9 3.6 5.4#

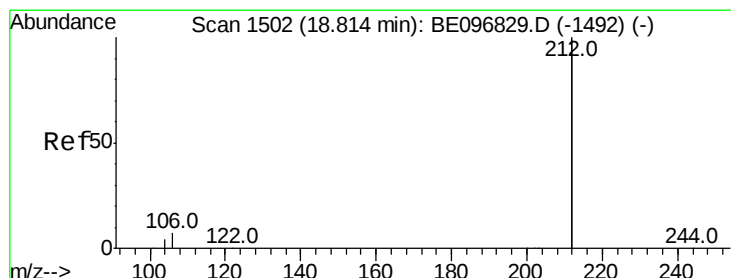
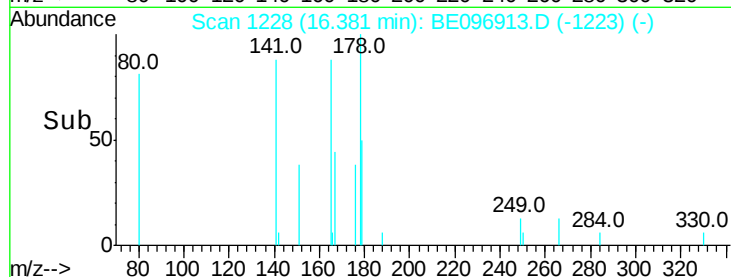
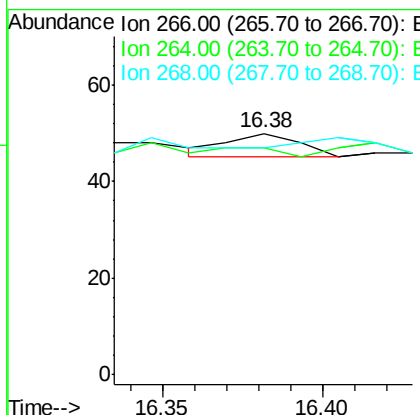
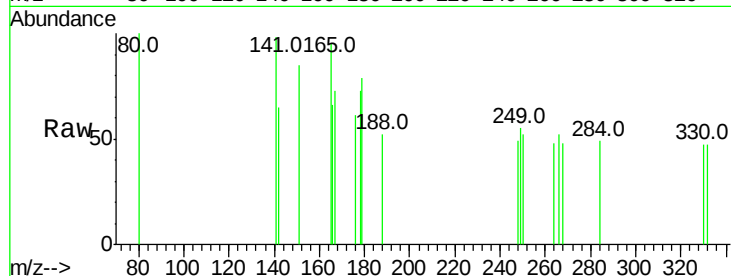




#22  
 Pentachlorophenol  
 Concen: 0.041 ng  
 RT: 16.38 min Scan# 1228  
 Delta R.T. -0.05 min  
 Lab File: BE096913.D  
 Acq: 13 Jul 2018 19:08

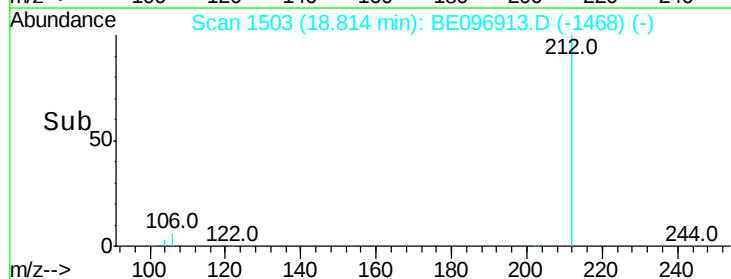
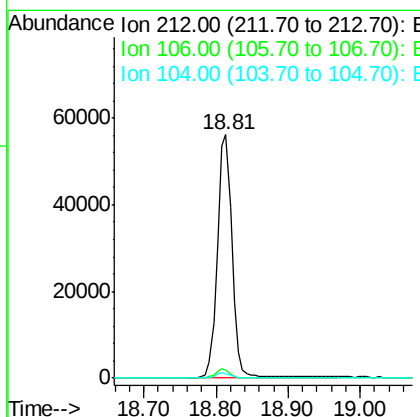
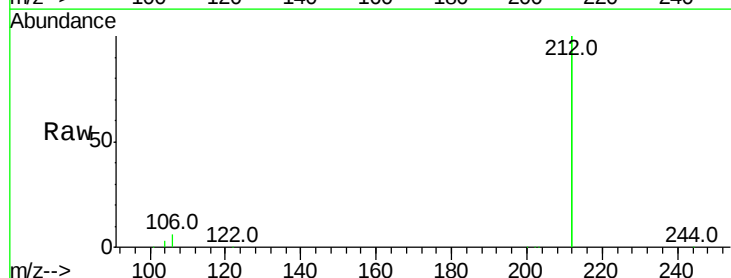
Instrument :  
 BNA\_E  
 ClientSampleId :

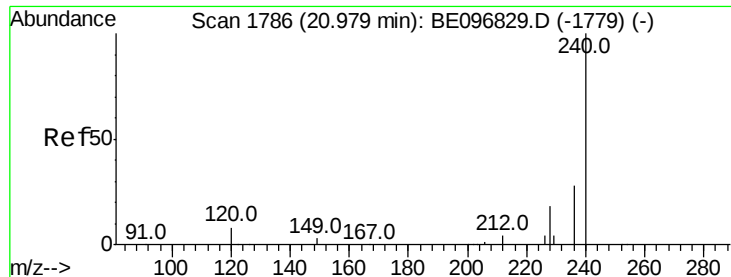
Tot Ion:266 Resp: 8  
 Ion Ratio Lower Upper  
 266 100  
 264 94.0 72.5 108.7  
 268 94.0 73.8 110.6



#25  
 Fluoranthene-d10  
 Concen: 0.561 ng  
 RT: 18.81 min Scan# 1503  
 Delta R.T. 0.00 min  
 Lab File: BE096913.D  
 Acq: 13 Jul 2018 19:08

Tgt Ion:212 Resp: 77534  
 Ion Ratio Lower Upper  
 212 100  
 106 3.5 2.8 4.2  
 104 1.9 1.6 2.4





#27

Chrysene-d12

Concen: 0.400 ng

RT: 20.98 min Scan# 1787

Delta R.T. 0.00 min

Lab File: BE096913.D

Acq: 13 Jul 2018 19:08

Instrument :

BNA\_E

ClientSampleId :

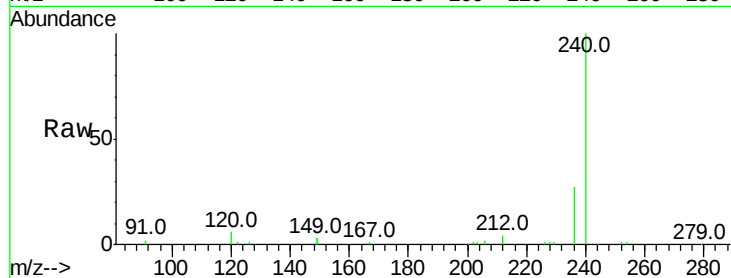
Tot Ion:240 Resp: 13677

Ion Ratio Lower Upper

240 100

120 6.1 5.5 8.3

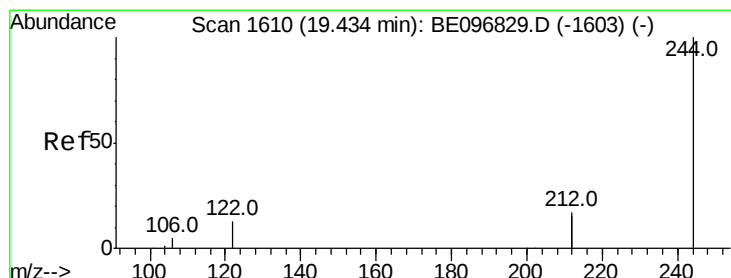
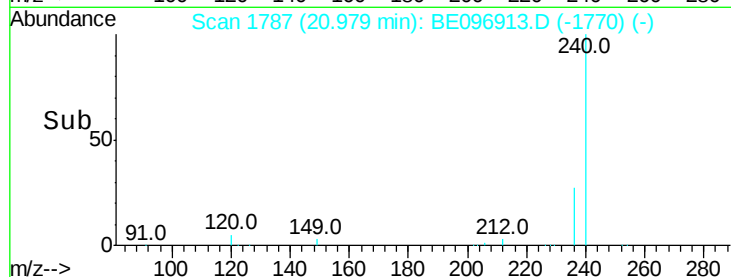
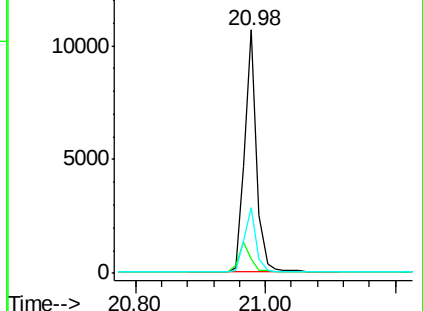
236 27.0 20.7 31.1



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: 0.756 ng

RT: 19.43 min Scan# 1611

Delta R.T. 0.00 min

Lab File: BE096913.D

Acq: 13 Jul 2018 19:08

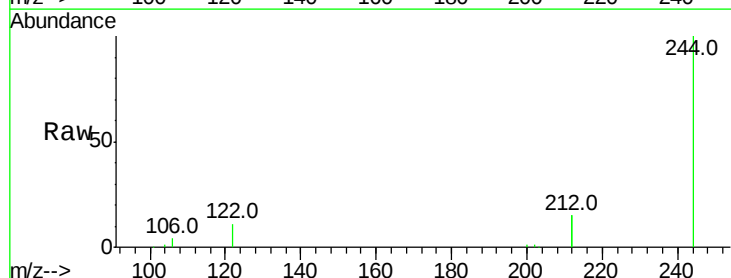
Tgt Ion:244 Resp: 19960

Ion Ratio Lower Upper

244 100

212 30.7 25.4 38.0

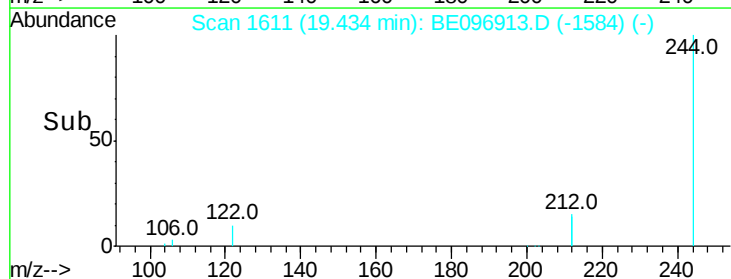
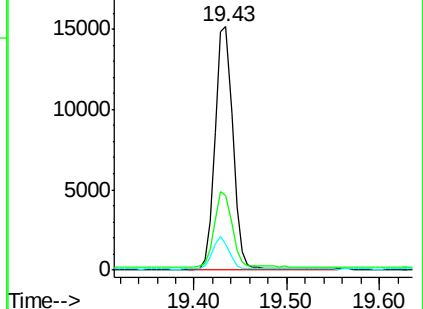
122 10.7 8.1 12.1

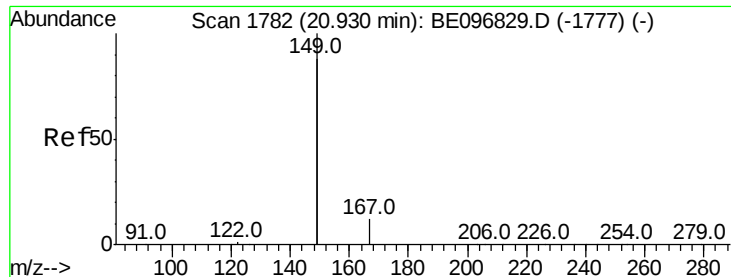


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

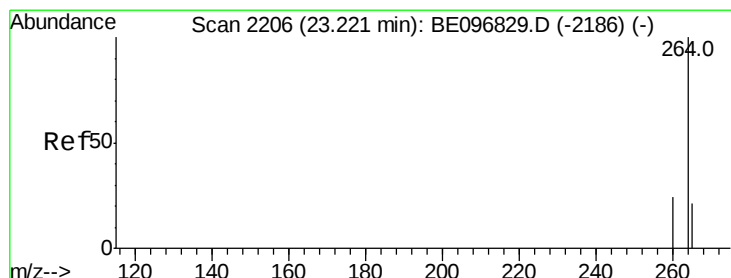
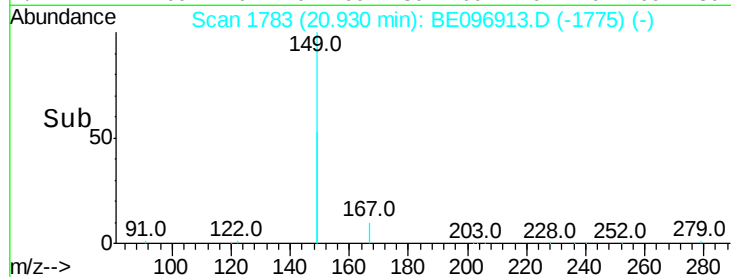
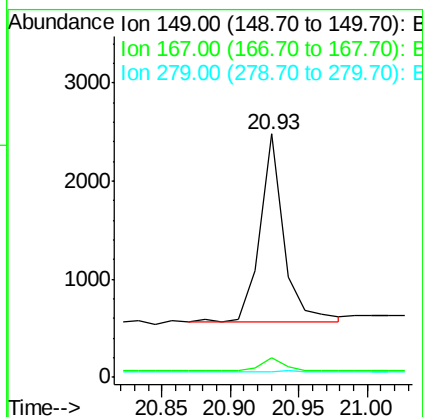
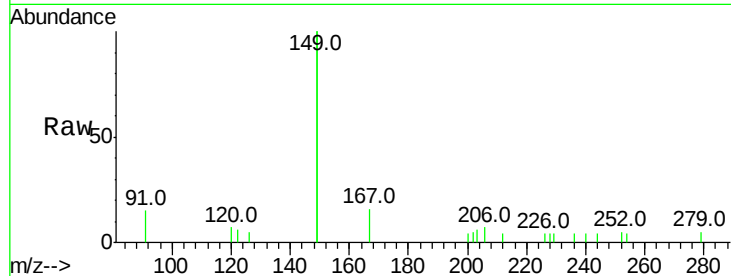




#32  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.085 ng  
 RT: 20.93 min Scan# 1783  
 Delta R.T. 0.00 min  
 Lab File: BE096913.D  
 Acq: 13 Jul 2018 19:08

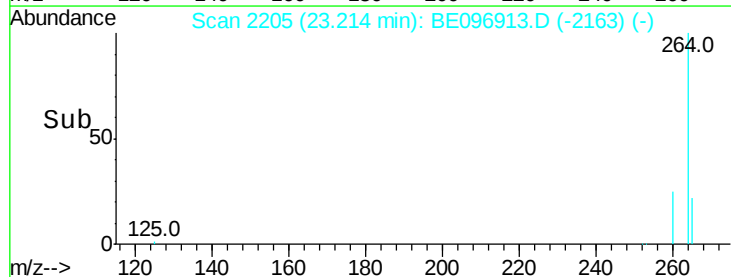
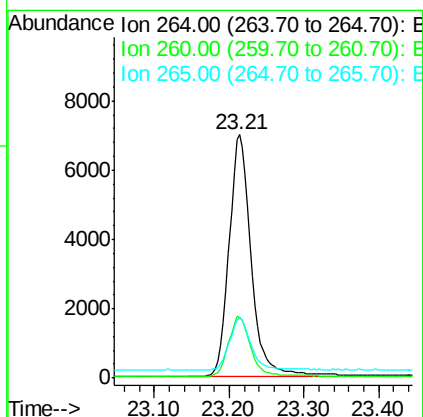
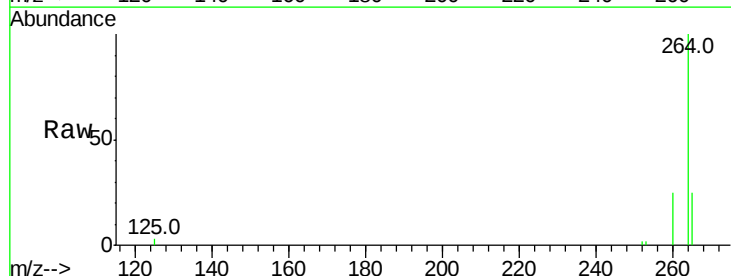
Instrument :  
 BNA\_E  
 ClientSampleId :

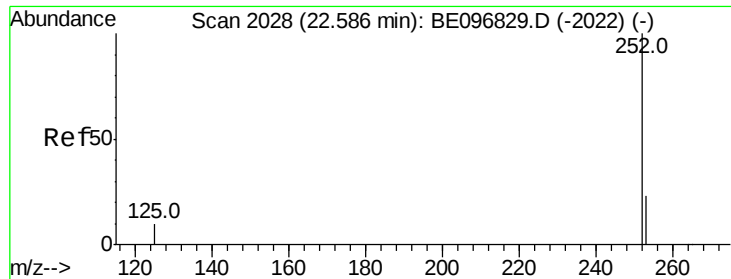
Tot Ion:149 Resp: 2305  
 Ion Ratio Lower Upper  
 149 100  
 167 7.6 5.4 8.0  
 279 1.3 0.7 1.1#



#34  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.21 min Scan# 2205  
 Delta R.T. 0.00 min  
 Lab File: BE096913.D  
 Acq: 13 Jul 2018 19:08

Tgt Ion:264 Resp: 14384  
 Ion Ratio Lower Upper  
 264 100  
 260 25.1 20.5 30.7  
 265 24.8 22.8 34.2

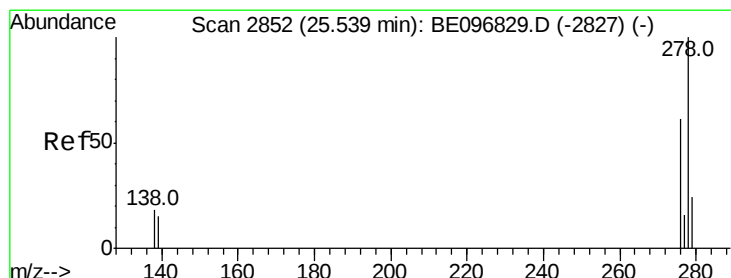
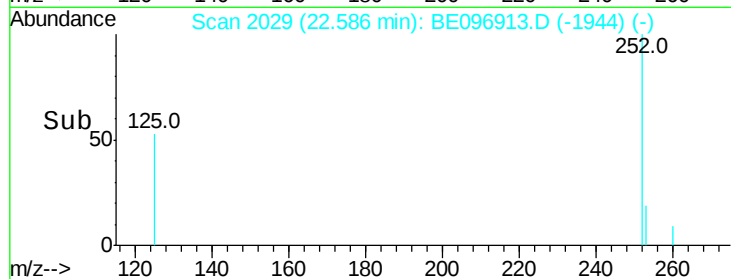
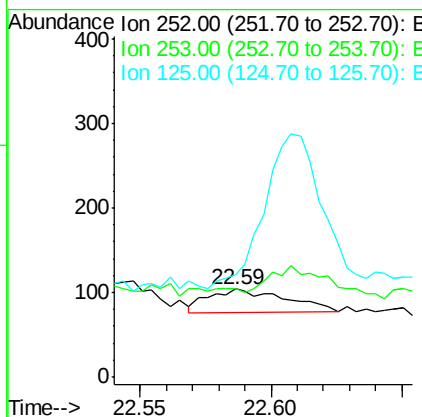
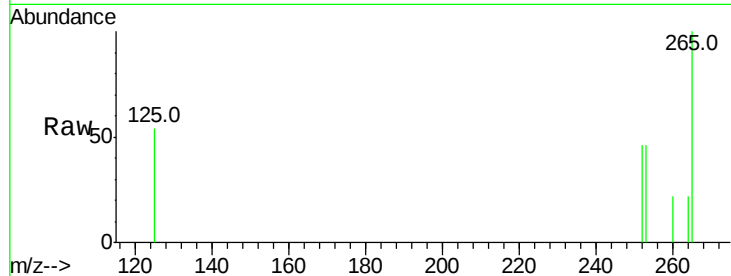




#36  
Benzo(k)fluoranthene  
Concen: 0.084 ng  
RT: 22.59 min Scan# 2029  
Delta R.T. 0.00 min  
Lab File: BE096913.D  
Acq: 13 Jul 2018 19:08

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:252 Resp: 57  
Ion Ratio Lower Upper  
252 100  
253 100.0 16.0 24.0#  
125 116.3 8.0 12.0#



#38  
Dibenzo(a,h)anthracene  
Concen: 0.109 ng  
RT: 25.53 min Scan# 2851  
Delta R.T. 0.00 min  
Lab File: BE096913.D  
Acq: 13 Jul 2018 19:08

Tgt Ion:278 Resp: 3  
Ion Ratio Lower Upper  
278 100  
139 112.3 16.0 24.0#  
279 107.0 20.0 30.0#

