

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE061516\  
 Data File : BE091923.D  
 Acq On : 15 Jun 2016 13:59  
 Operator : UM/SJ  
 Sample : H3476-02  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 OUTFALL001-160607

Quant Time: Jun 15 15:10:32 2016  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE061416.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jun 15 12:00:38 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.20  | 152  | 24362    | 5.00 | ng    | 0.00     |
| 8) Naphthalene-d8         | 11.02 | 136  | 109237   | 5.00 | ng    | 0.03     |
| 15) Acenaphthene-d10      | 14.86 | 164  | 82888    | 5.00 | ng    | 0.00     |
| 24) Phenanthrene-d10      | 17.61 | 188  | 170715   | 5.00 | ng    | 0.00     |
| 31) Chrysene-d12          | 21.76 | 240  | 285427   | 5.00 | ng    | 0.00     |
| 40) Perylene-d12          | 24.16 | 264  | 203084   | 5.00 | ng    | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.72  | 112  | 12050    | 2.53 | ng    | 0.00     |
| 5) Phenol-d6                | 7.37  | 99   | 9155     | 1.29 | ng    | 0.02     |
| 9) Nitrobenzene-d5          | 9.37  | 82   | 23733    | 3.15 | ng    | 0.00     |
| 16) 2,4,6-Tribromophenol    | 16.35 | 330  | 14339    | 6.66 | ng    | 0.00     |
| 17) 2-Fluorobiphenyl        | 13.48 | 172  | 70192    | 3.34 | ng    | 0.00     |
| 34) Terphenyl-d14           | 20.22 | 244  | 132812   | 3.80 | ng    | 0.00     |

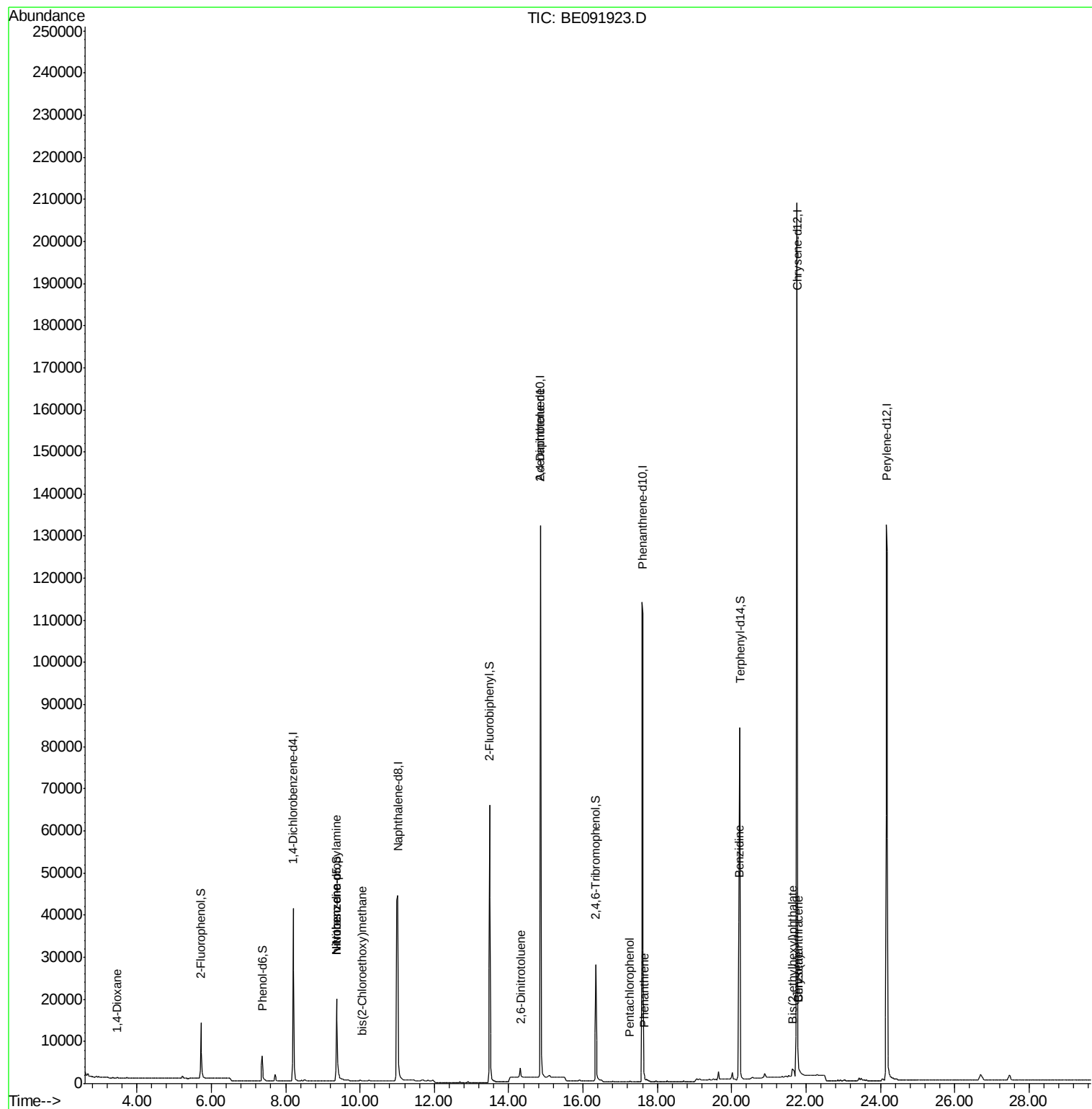
| Target Compounds               | R.T.  | QIon | Response | Conc | Units | Qvalue |
|--------------------------------|-------|------|----------|------|-------|--------|
| 2) 1,4-Dioxane                 | 3.47  | 88   | 168      | 0.05 | ng    | # 69   |
| 7) n-Nitroso-di-n-propylamine  | 9.37  | 70   | 2891     | 0.55 | ng    | # 89   |
| 10) Nitrobenzene               | 9.37  | 77   | 111      | 0.06 | ng    | # 34   |
| 11) bis(2-Chloroethoxy)methane | 10.07 | 93   | 648      | 0.07 | ng    | # 1    |
| 19) 2,6-Dinitrotoluene         | 14.32 | 165  | 2377     | 0.37 | ng    | # 10   |
| 21) 2,4-Dinitrotoluene         | 14.86 | 165  | 40542    | 2.51 | ng    | # 1    |
| 27) Pentachlorophenol          | 17.26 | 266  | 117      | 0.13 | ng    | # 89   |
| 28) Phenanthrene               | 17.64 | 178  | 895      | 0.02 | ng    | # 80   |
| 32) Benzidine                  | 20.20 | 184  | 2814     | 0.35 | ng    | # 90   |
| 35) Benzo(a)anthracene         | 21.78 | 228  | 2481     | 0.06 | ng    | # 81   |
| 37) Chrysene                   | 21.78 | 228  | 2510     | 0.04 | ng    | # 88   |
| 38) Bis(2-ethylhexyl)phthalate | 21.64 | 149  | 5708     | 0.12 | ng    | # 100  |

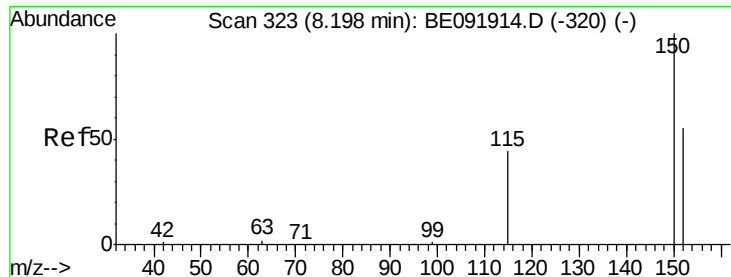
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jun 15 12:00:38 2016  
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.20 min Scan# 323

Delta R.T. -0.00 min

Lab File: BE091923.D

Acq: 15 Jun 2016 13:59

Instrument :

BNA\_E

ClientSampleId :

OUTFALL001-160607

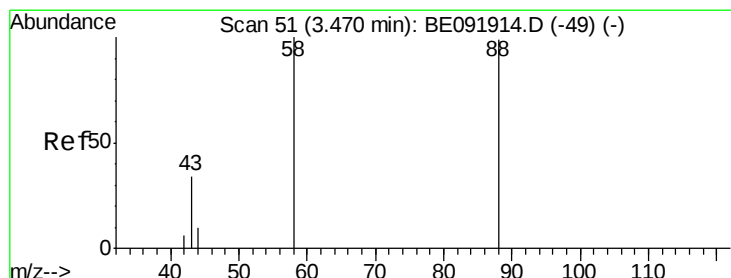
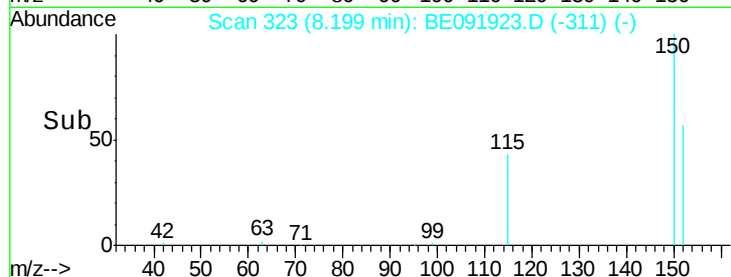
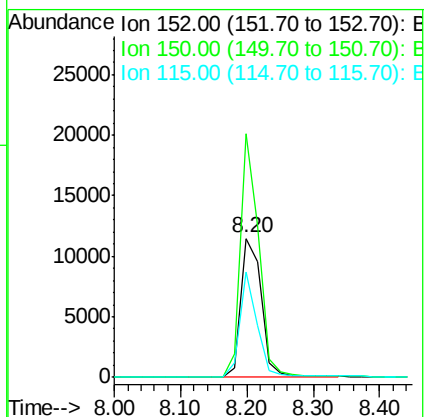
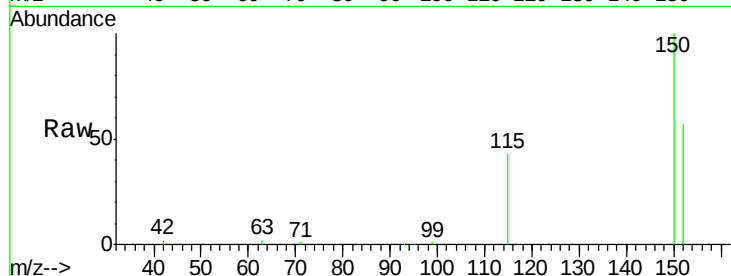
Tgt Ion:152 Resp: 24362

Ion Ratio Lower Upper

152 100

150 175.5 123.9 185.9

115 75.9 48.3 72.5#



#2

1,4-Dioxane

Concen: 0.05 ng

RT: 3.47 min Scan# 51

Delta R.T. 0.00 min

Lab File: BE091923.D

Acq: 15 Jun 2016 13:59

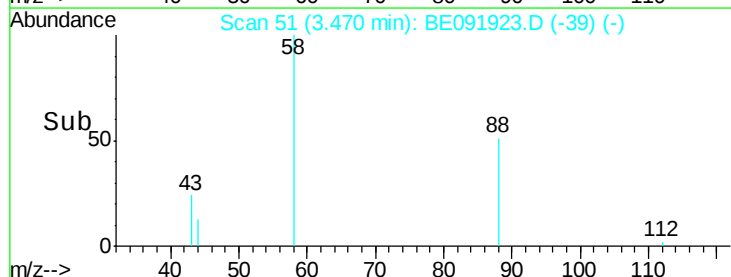
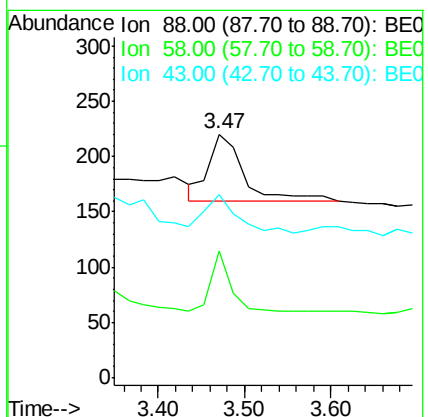
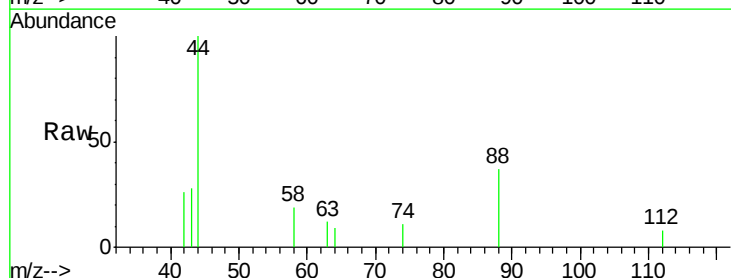
Tgt Ion: 88 Resp: 168

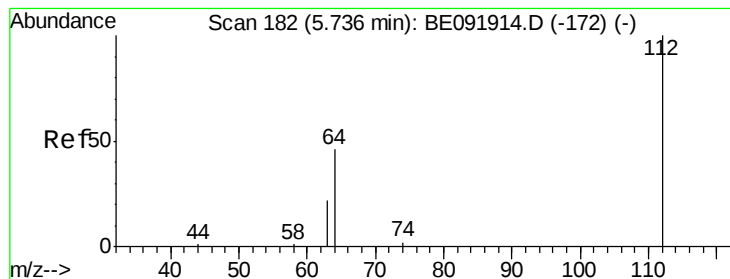
Ion Ratio Lower Upper

88 100

58 50.0 63.0 94.4#

43 52.4 29.1 43.7#





#4

2-Fluorophenol

Concen: 2.53 ng

RT: 5.72 min Scan# 181

Delta R.T. 0.00 min

Lab File: BE091923.D

Acq: 15 Jun 2016 13:59

Instrument :

BNA\_E

ClientSampleId :

OUTFALL001-160607

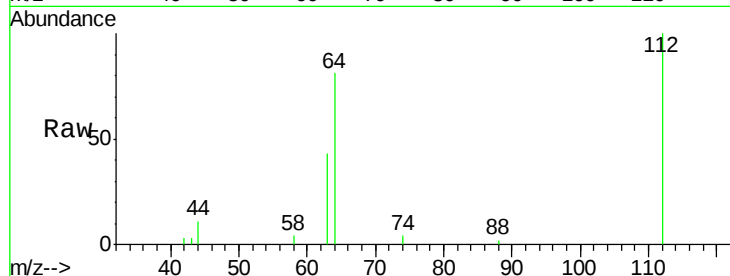
Tgt Ion: 112 Resp: 12050

Ion Ratio Lower Upper

112 100

64 67.6 53.7 80.5

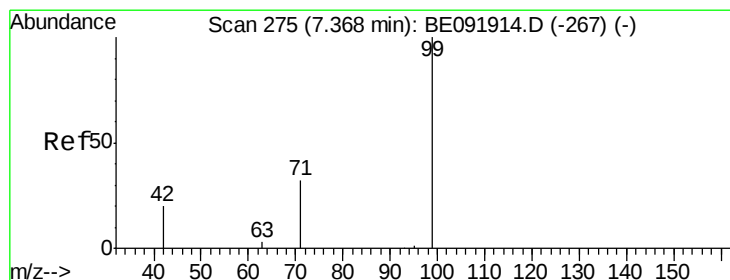
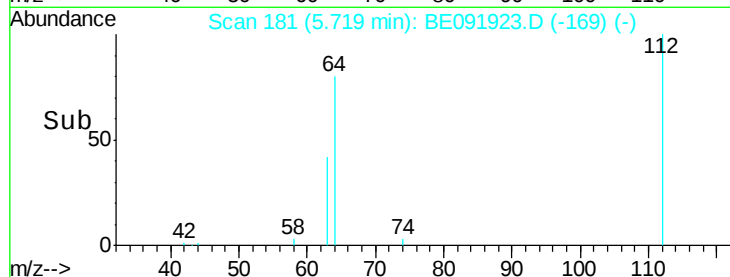
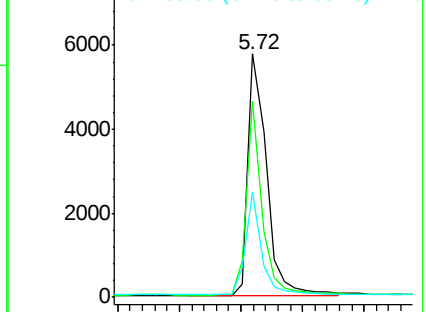
63 36.2 29.5 44.3



Abundance Ion 112.00 (111.70 to 112.70): BE091914.D (-172) (-)

Ion 64.00 (63.70 to 64.70): BE091914.D (-172) (-)

Ion 63.00 (62.70 to 63.70): BE091914.D (-172) (-)



#5

Phenol-d6

Concen: 1.29 ng

RT: 7.37 min Scan# 275

Delta R.T. 0.02 min

Lab File: BE091923.D

Acq: 15 Jun 2016 13:59

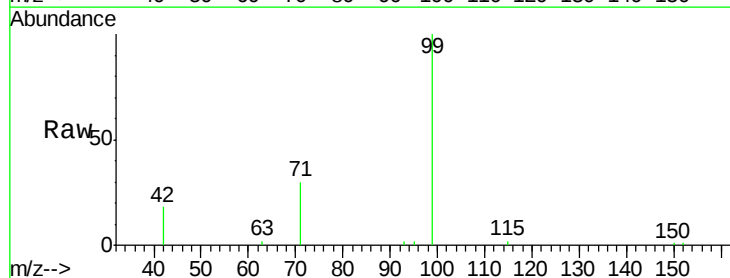
Tgt Ion: 99 Resp: 9155

Ion Ratio Lower Upper

99 100

42 26.8 19.6 29.4

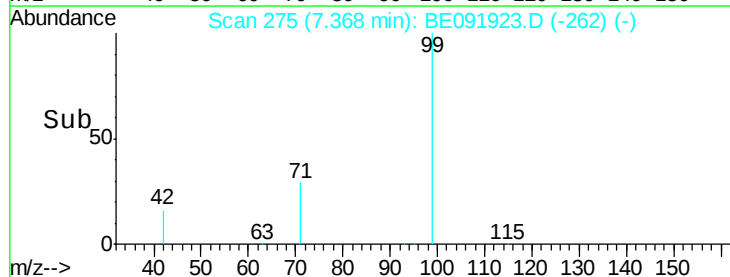
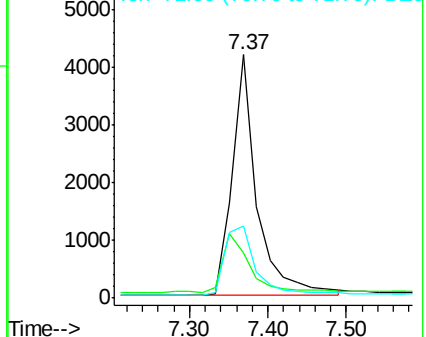
71 36.1 28.1 42.1

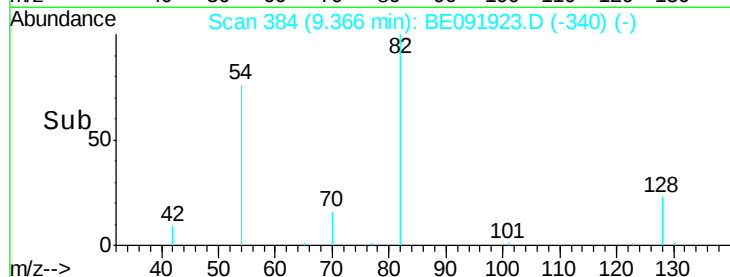
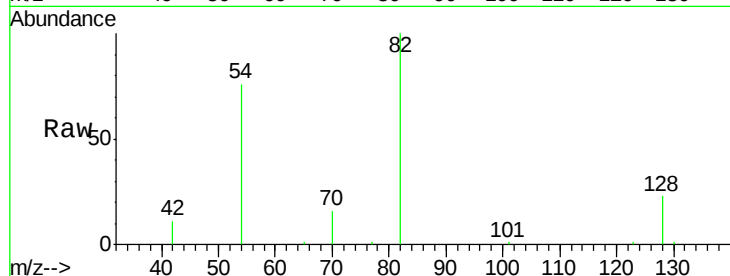
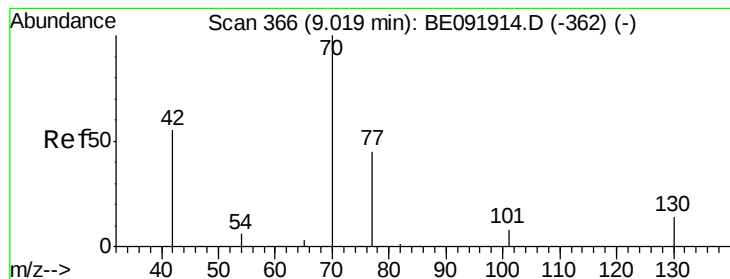


Abundance Ion 99.00 (98.70 to 99.70): BE091914.D (-267) (-)

Ion 42.00 (41.70 to 42.70): BE091914.D (-267) (-)

Ion 71.00 (70.70 to 71.70): BE091914.D (-267) (-)





#7

n-Nitroso-di-n-propylamine

Concen: 0.55 ng

RT: 9.37 min Scan# 384

Delta R.T. 0.37 min

Lab File: BE091923.D

Acq: 15 Jun 2016 13:59

Instrument :

BNA\_E

ClientSampleId :

OUTFALL001-160607

Tgt Ion: 70 Resp: 2891

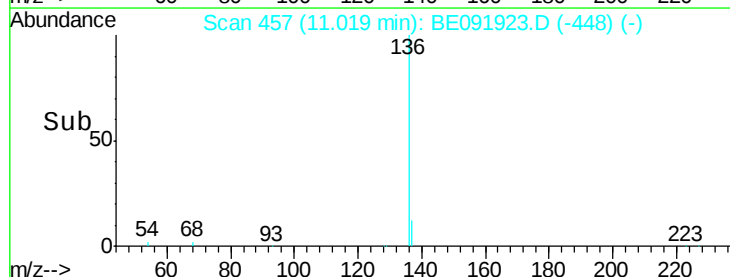
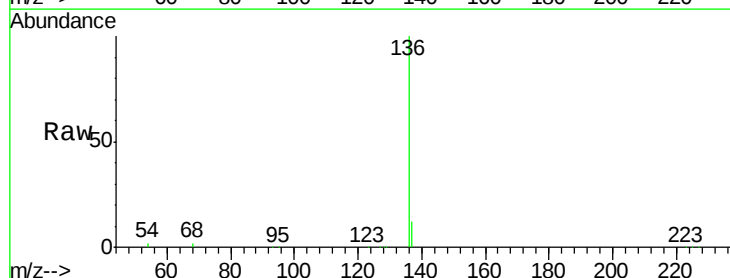
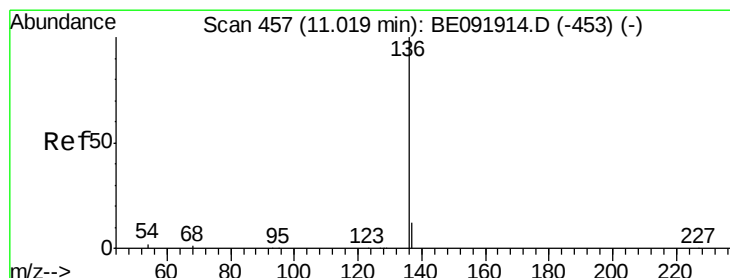
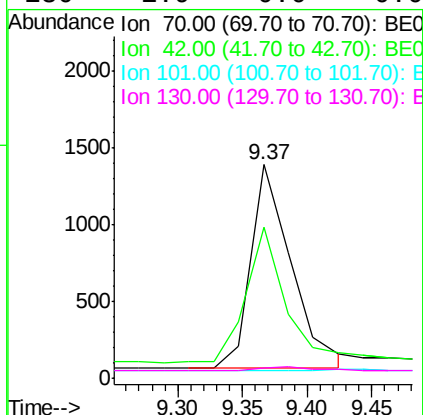
Ion Ratio Lower Upper

70 100

42 64.6 58.4 87.6

101 0.0 6.4 9.6#

130 1.9 0.0 0.0#



#8

Naphthalene-d8

Concen: 5.00 ng

RT: 11.02 min Scan# 457

Delta R.T. 0.03 min

Lab File: BE091923.D

Acq: 15 Jun 2016 13:59

Tgt Ion: 136 Resp: 109237

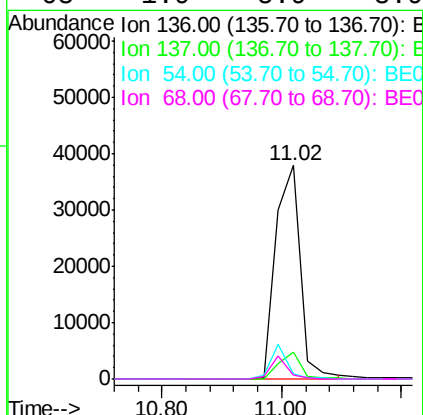
Ion Ratio Lower Upper

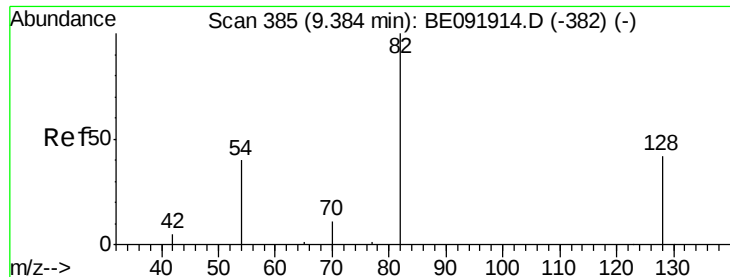
136 100

137 12.4 8.3 12.5

54 2.3 8.2 12.4#

68 1.9 5.9 8.9#





#9

Nitrobenzene-d5

Concen: 3.15 ng

RT: 9.37 min Scan# 384

Delta R.T. 0.00 min

Lab File: BE091923.D

Acq: 15 Jun 2016 13:59

Instrument :

BNA\_E

ClientSampleId :

OUTFALL001-160607

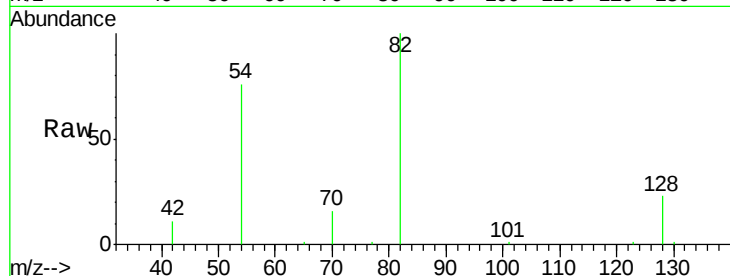
Tgt Ion: 82 Resp: 23733

Ion Ratio Lower Upper

82 100

128 23.0 39.5 59.3#

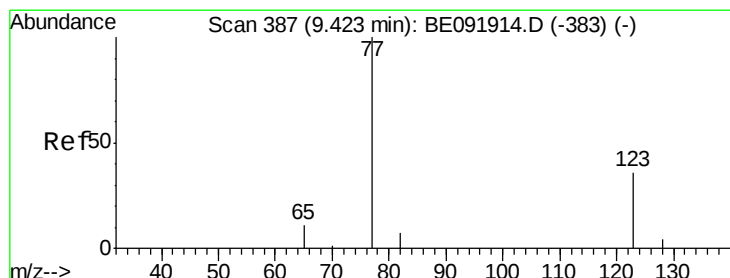
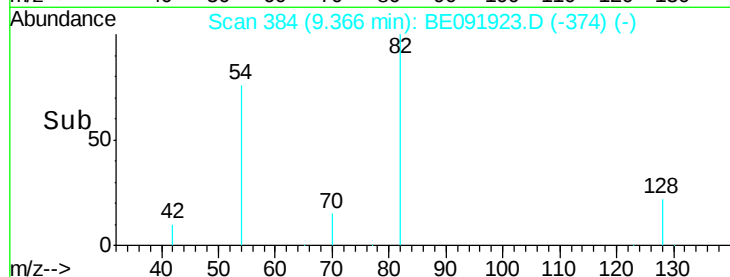
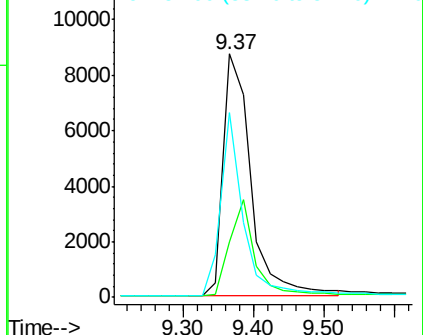
54 75.9 30.3 45.5#



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#10

Nitrobenzene

Concen: 0.06 ng

RT: 9.37 min Scan# 384

Delta R.T. -0.04 min

Lab File: BE091923.D

Acq: 15 Jun 2016 13:59

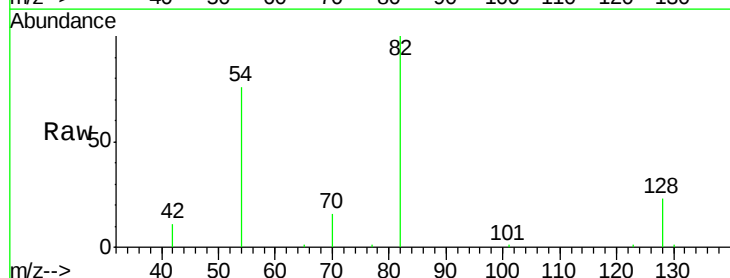
Tgt Ion: 77 Resp: 111

Ion Ratio Lower Upper

77 100

123 16.2 0.0 0.0#

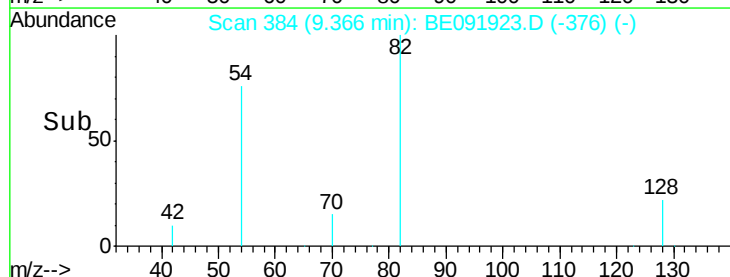
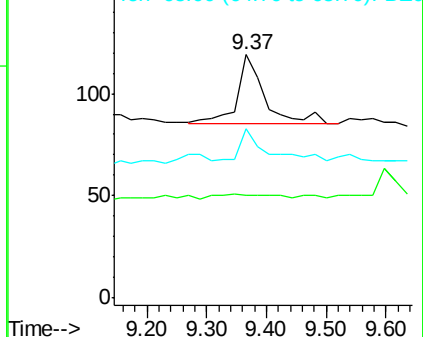
65 40.5 11.1 16.7#

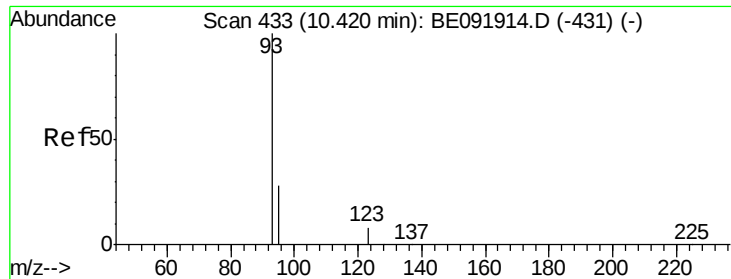


Abundance Ion 77.00 (76.70 to 77.70): BE0

Ion 123.00 (122.70 to 123.70): BE0

Ion 65.00 (64.70 to 65.70): BE0

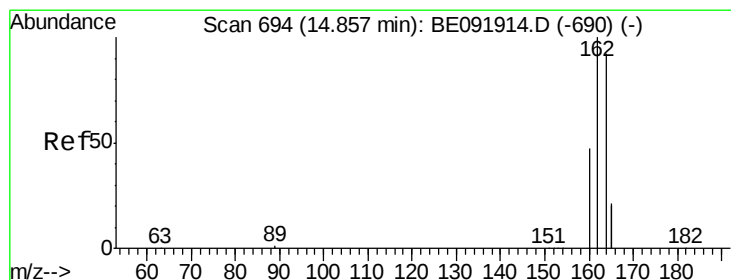
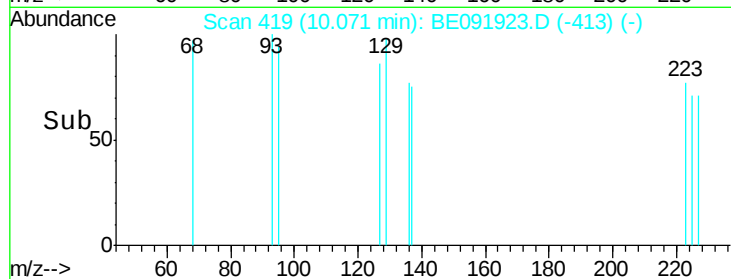
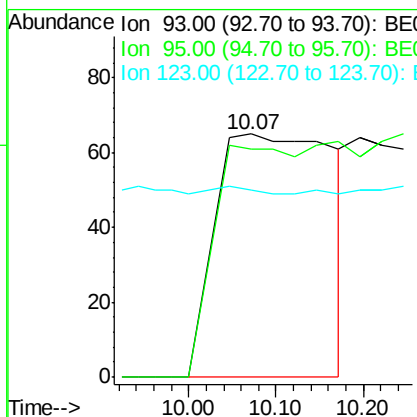
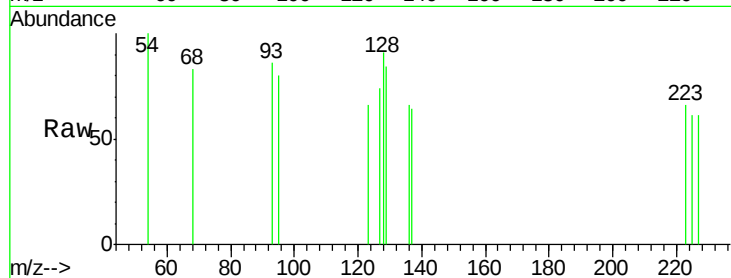




#11  
bis(2-Chloroethoxy)methane  
Concen: 0.07 ng  
RT: 10.07 min Scan# 419  
Delta R.T. -0.35 min  
Lab File: BE091923.D  
Acq: 15 Jun 2016 13:59

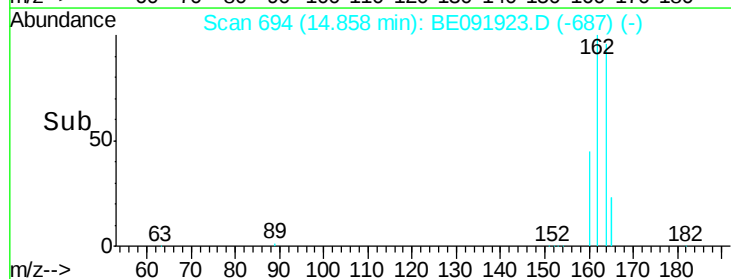
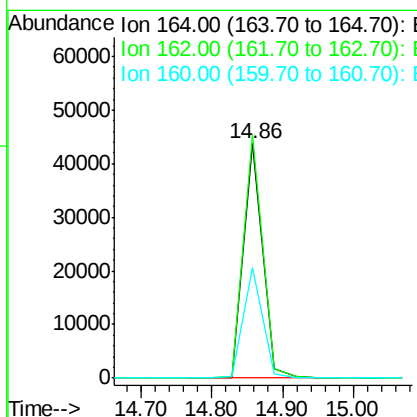
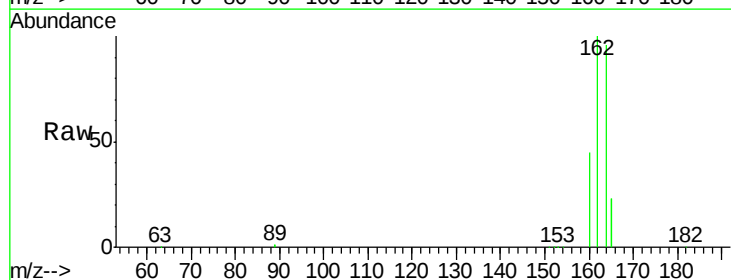
Instrument :  
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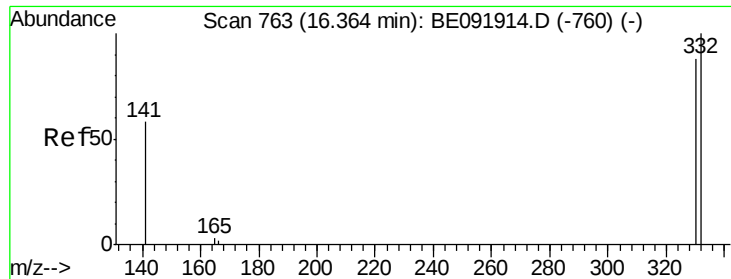
Tgt Ion: 93 Resp: 648  
Ion Ratio Lower Upper  
93 100  
95 0.0 57.6 86.4#  
123 0.0 100.2 150.4#



#15  
Acenaphthene-d10  
Concen: 5.00 ng  
RT: 14.86 min Scan# 694  
Delta R.T. -0.00 min  
Lab File: BE091923.D  
Acq: 15 Jun 2016 13:59

Tgt Ion: 164 Resp: 82888  
Ion Ratio Lower Upper  
164 100  
162 103.8 71.8 107.8  
160 47.0 28.0 42.0#

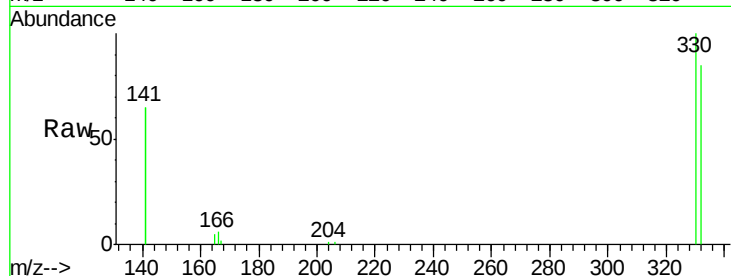




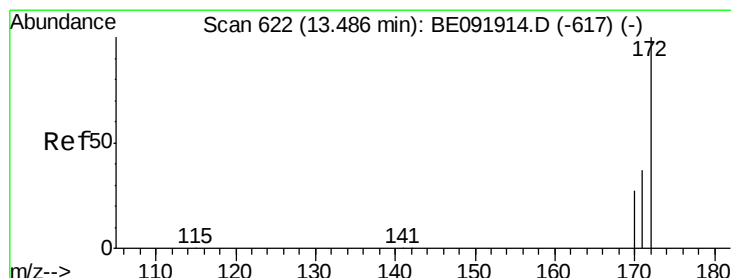
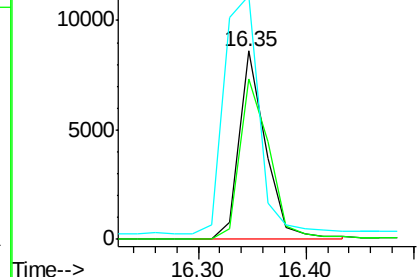
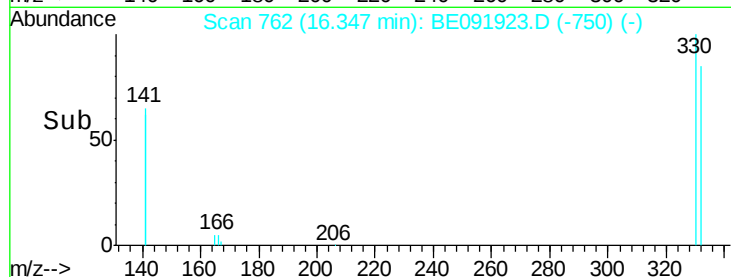
#16  
 2,4,6-Tribromophenol  
 Concen: 6.66 ng  
 RT: 16.35 min Scan# 762  
 Delta R.T. 0.00 min  
 Lab File: BE091923.D  
 Acq: 15 Jun 2016 13:59

Instrument :  
 BNA\_E  
 ClientSampleId :  
 OUTFALL001-160607

Tgt Ion:330 Resp: 14339  
 Ion Ratio Lower Upper  
 330 100  
 332 94.8 77.0 115.6  
 141 170.0 138.4 207.6

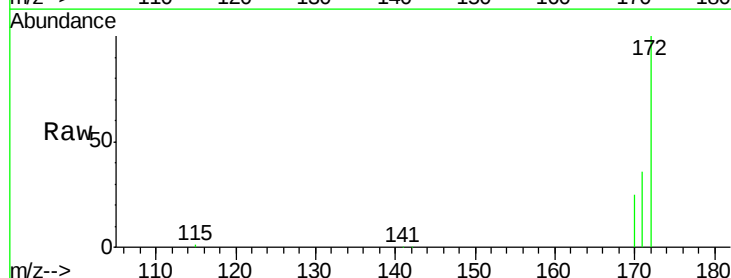


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

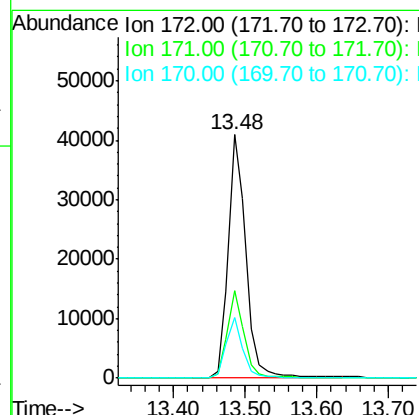
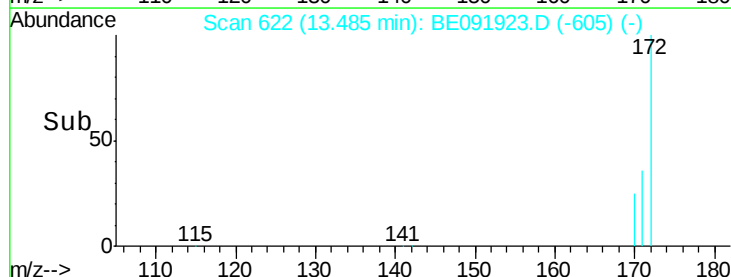


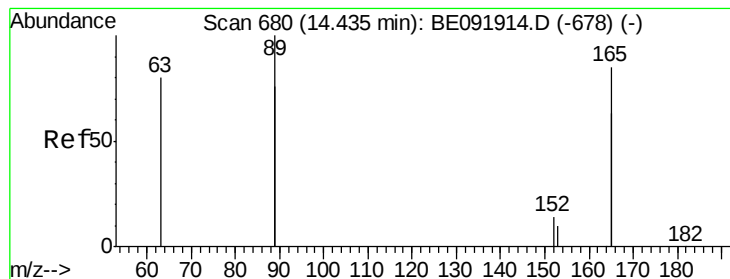
#17  
 2-Fluorobiphenyl  
 Concen: 3.34 ng  
 RT: 13.48 min Scan# 622  
 Delta R.T. -0.00 min  
 Lab File: BE091923.D  
 Acq: 15 Jun 2016 13:59

Tgt Ion:172 Resp: 70192  
 Ion Ratio Lower Upper  
 172 100  
 171 35.8 24.3 36.5  
 170 24.9 14.9 22.3#



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

2,6-Dinitrotoluene

Concen: 0.37 ng

RT: 14.32 min Scan# 676

Delta R.T. -0.12 min

Lab File: BE091923.D

Acq: 15 Jun 2016 13:59

Instrument :

BNA\_E

ClientSampleId :

OUTFALL001-160607

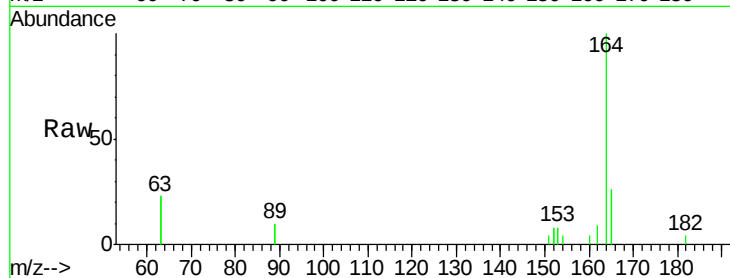
Tgt Ion:165 Resp: 2377

Ion Ratio Lower Upper

165 100

63 0.0 65.9 98.9#

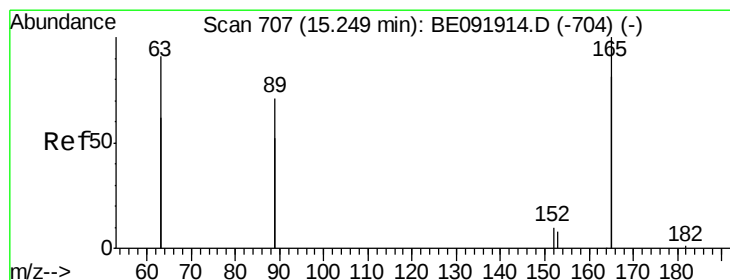
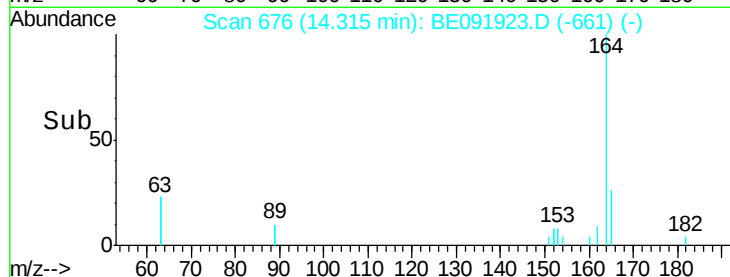
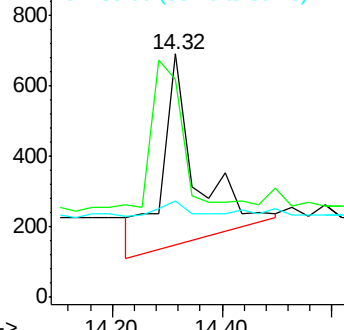
89 0.0 59.1 88.7#



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BE0

Ion 89.00 (88.70 to 89.70): BE0



#21

2,4-Dinitrotoluene

Concen: 2.51 ng

RT: 14.86 min Scan# 694

Delta R.T. -0.36 min

Lab File: BE091923.D

Acq: 15 Jun 2016 13:59

Tgt Ion:165 Resp: 40542

Ion Ratio Lower Upper

165 100

63 1.3 0.0 0.0#

89 1.5 99.8 149.8#

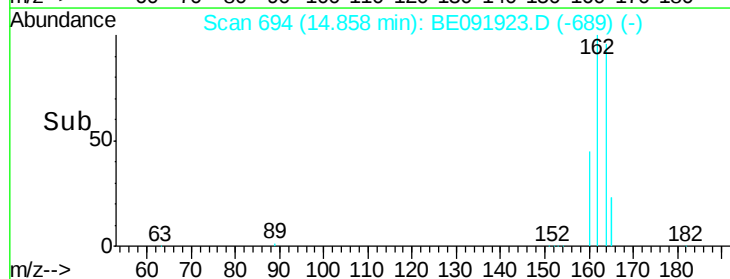
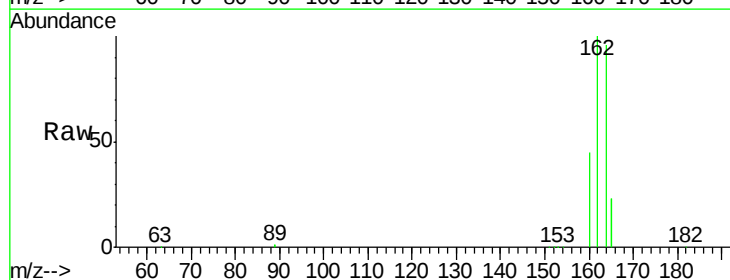
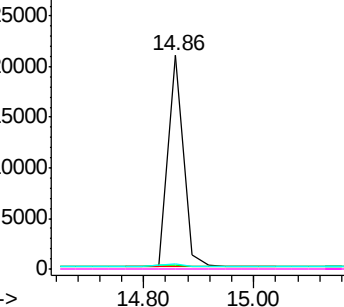
182 0.0 0.0 0.0

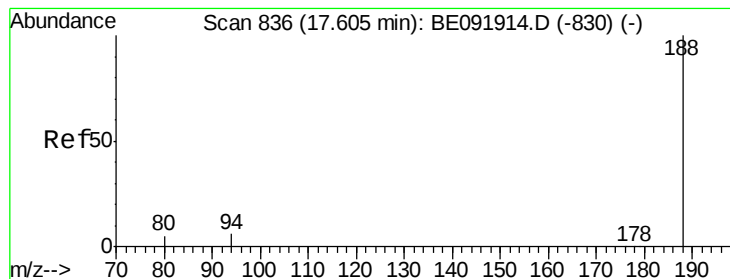
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BE0

Ion 89.00 (88.70 to 89.70): BE0

Ion 182.00 (181.70 to 182.70): E





#24

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.61 min Scan# 836

Delta R.T. -0.00 min

Lab File: BE091923.D

Acq: 15 Jun 2016 13:59

Instrument :

BNA\_E

ClientSampleId :

OUTFALL001-160607

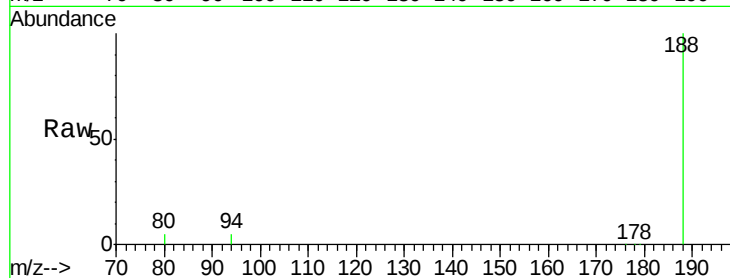
Tgt Ion:188 Resp: 170715

Ion Ratio Lower Upper

188 100

94 5.4 4.1 6.1

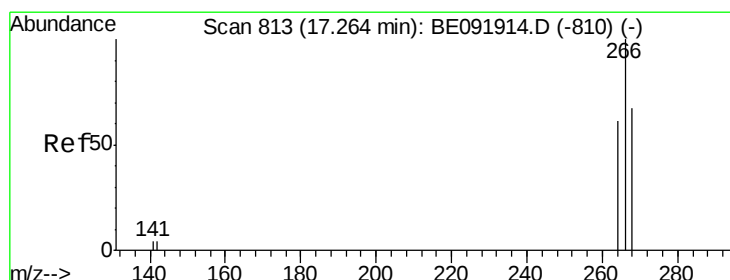
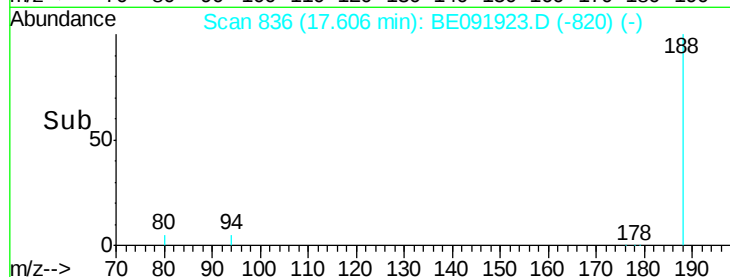
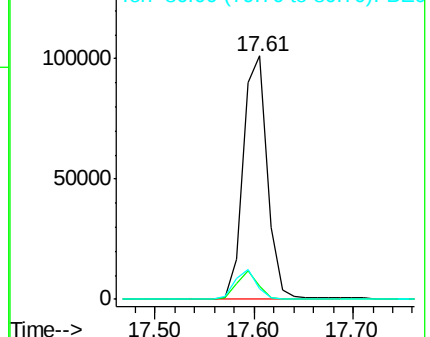
80 4.6 3.4 5.2



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



#27

Pentachlorophenol

Concen: 0.13 ng

RT: 17.26 min Scan# 813

Delta R.T. 0.02 min

Lab File: BE091923.D

Acq: 15 Jun 2016 13:59

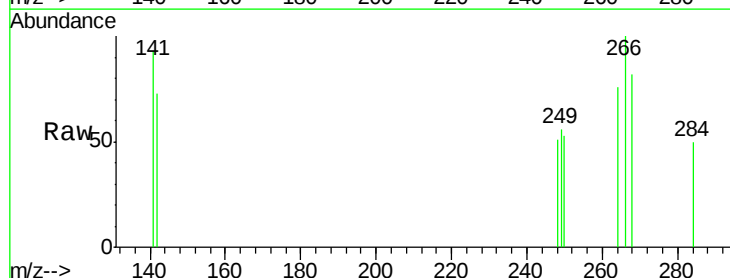
Tgt Ion:266 Resp: 117

Ion Ratio Lower Upper

266 100

268 82.3 60.5 90.7

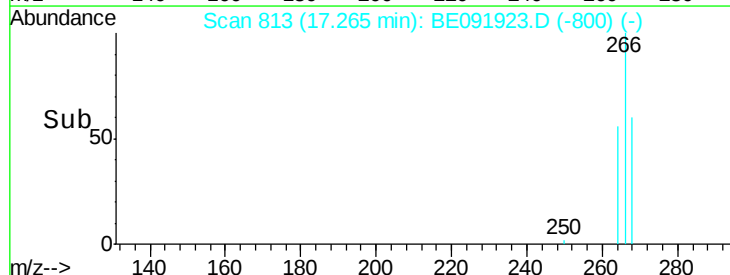
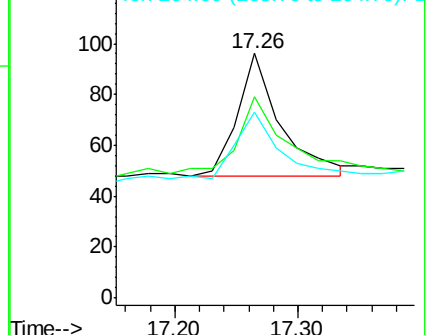
264 76.0 51.0 76.4

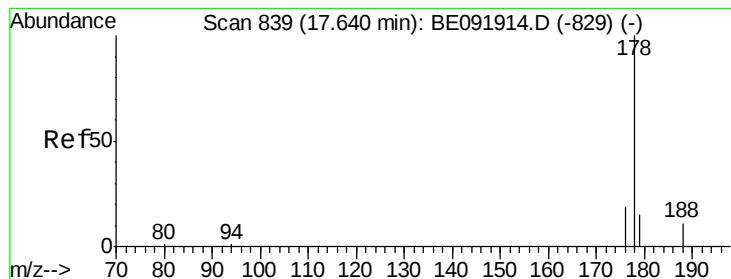


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E





#28

Phenanthrene

Concen: 0.02 ng

RT: 17.64 min Scan# 839

Delta R.T. -0.00 min

Lab File: BE091923.D

Acq: 15 Jun 2016 13:59

Instrument :

BNA\_E

ClientSampleId :

OUTFALL001-160607

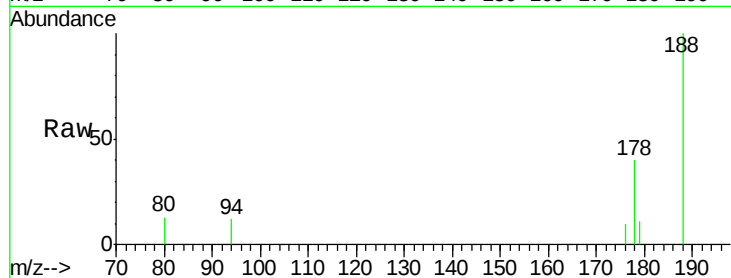
Tgt Ion:178 Resp: 895

Ion Ratio Lower Upper

178 100

176 16.6 15.4 23.2

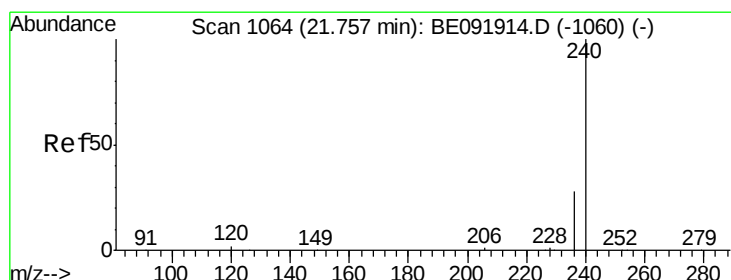
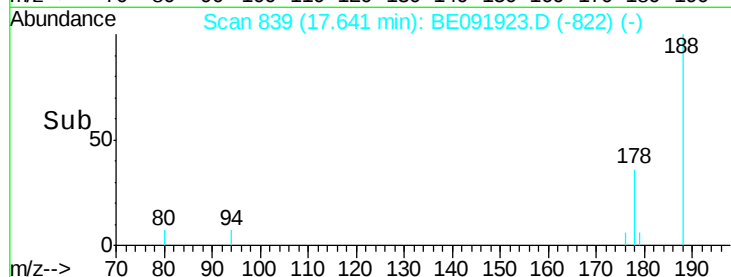
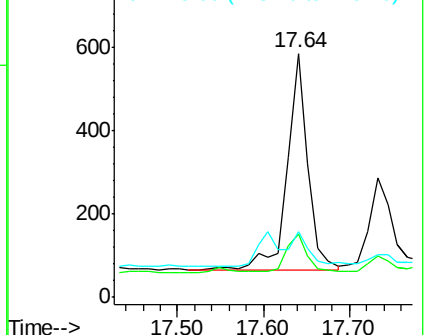
179 0.0 12.9 19.3#



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



#31

Chrysene-d12

Concen: 5.00 ng

RT: 21.76 min Scan# 1064

Delta R.T. -0.00 min

Lab File: BE091923.D

Acq: 15 Jun 2016 13:59

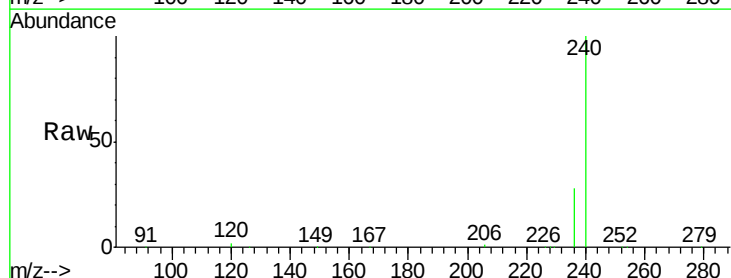
Tgt Ion:240 Resp: 285427

Ion Ratio Lower Upper

240 100

120 1.5 1.2 1.8

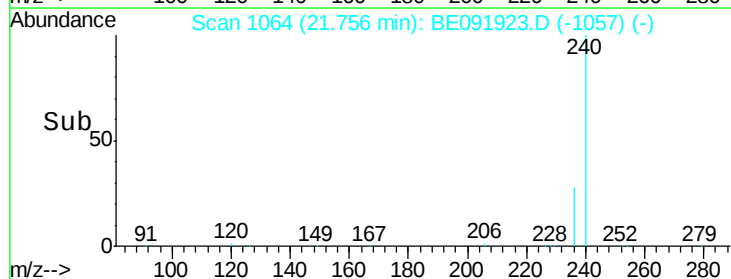
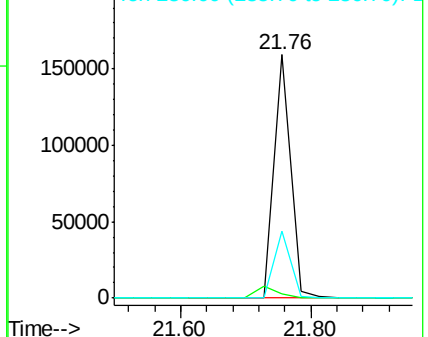
236 27.7 19.8 29.8

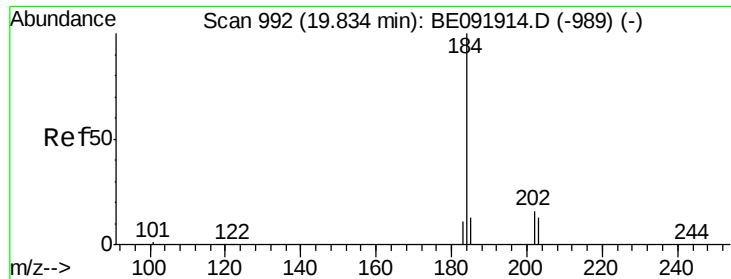


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#32

Benzidine

Concen: 0.35 ng

RT: 20.20 min Scan# 1008

Delta R.T. 0.37 min

Lab File: BE091923.D

Acq: 15 Jun 2016 13:59

Instrument :

BNA\_E

ClientSampleId :

OUTFALL001-160607

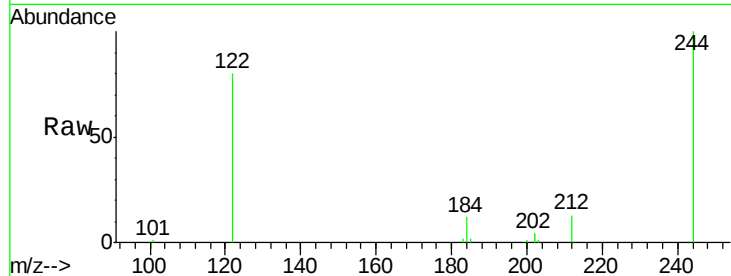
Tgt Ion:184 Resp: 2814

Ion Ratio Lower Upper

184 100

185 21.2 11.4 17.2#

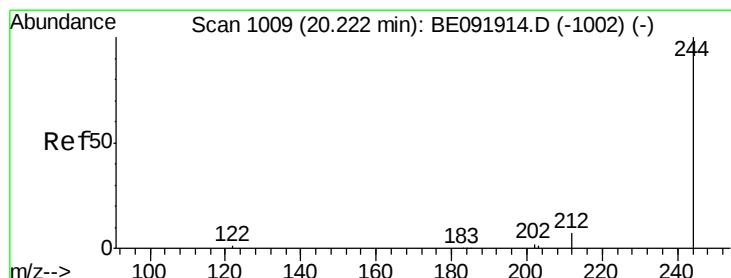
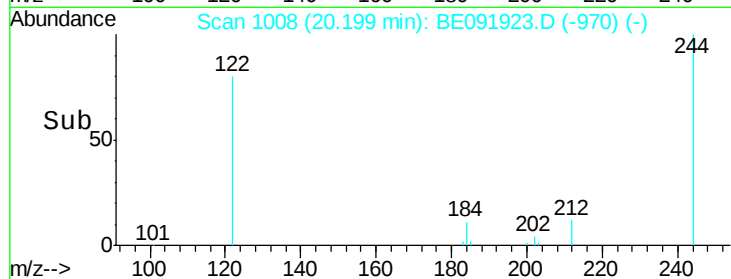
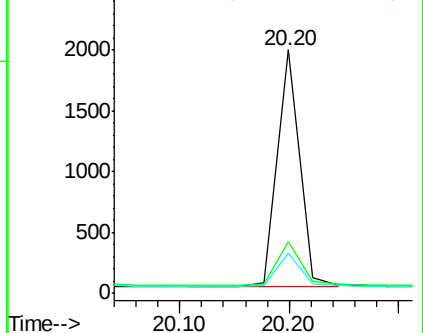
183 16.4 11.8 17.6



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#34

Terphenyl-d14

Concen: 3.80 ng

RT: 20.22 min Scan# 1009

Delta R.T. 0.00 min

Lab File: BE091923.D

Acq: 15 Jun 2016 13:59

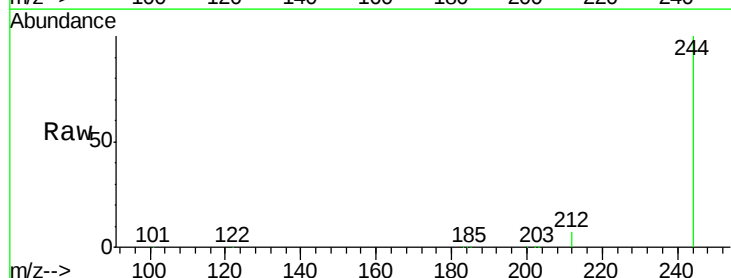
Tgt Ion:244 Resp: 132812

Ion Ratio Lower Upper

244 100

212 6.7 6.5 9.7

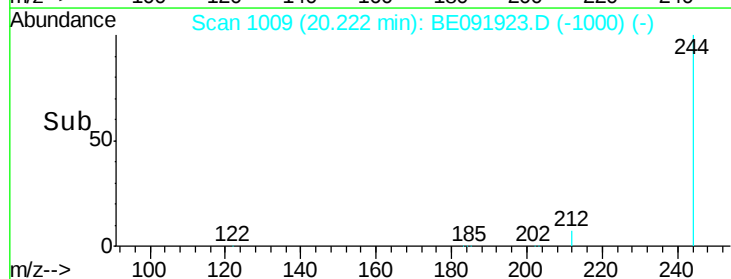
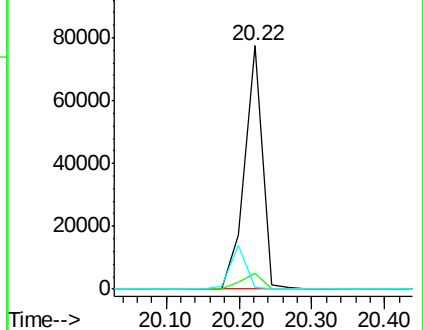
122 0.5 2.9 4.3#

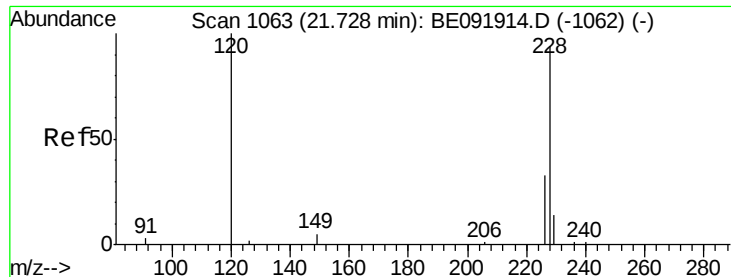


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#35

Benzo(a)anthracene

Concen: 0.06 ng

RT: 21.78 min Scan# 1065

Delta R.T. 0.06 min

Lab File: BE091923.D

Acq: 15 Jun 2016 13:59

Instrument :

BNA\_E

ClientSampleId :

OUTFALL001-160607

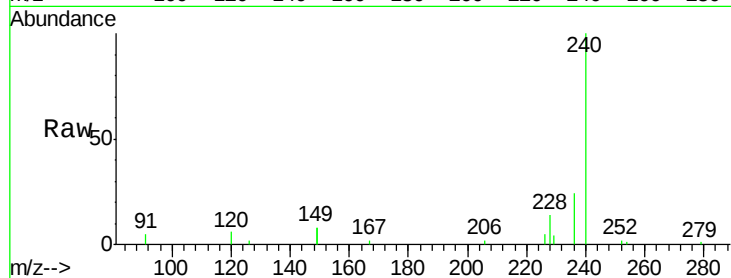
Tgt Ion:228 Resp: 2481

Ion Ratio Lower Upper

228 100

226 38.1 21.0 31.4#

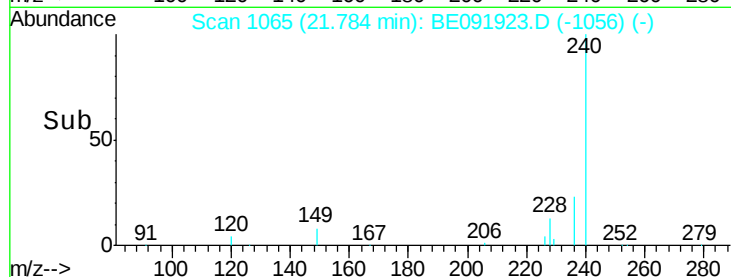
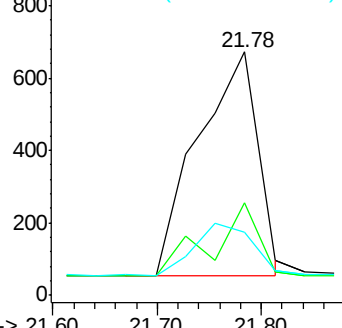
229 25.7 15.8 23.8#



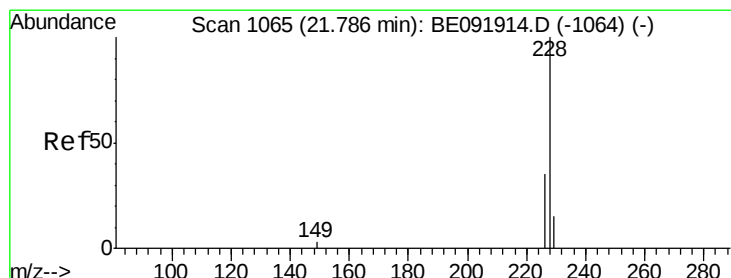
Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



Time--> 21.60 21.70 21.80



#37

Chrysene

Concen: 0.04 ng

RT: 21.78 min Scan# 1065

Delta R.T. -0.00 min

Lab File: BE091923.D

Acq: 15 Jun 2016 13:59

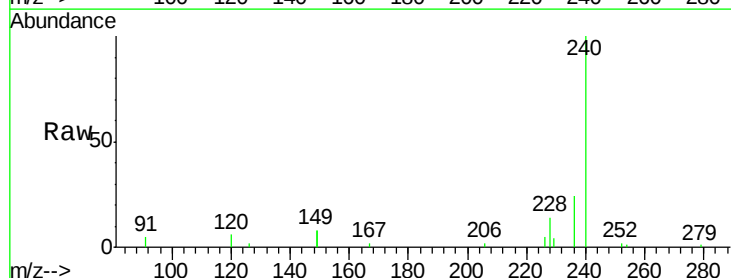
Tgt Ion:228 Resp: 2510

Ion Ratio Lower Upper

228 100

226 38.1 27.0 40.6

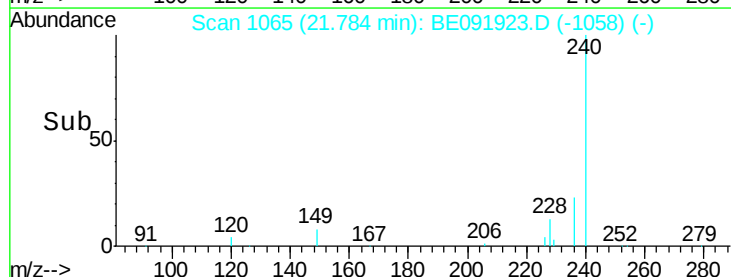
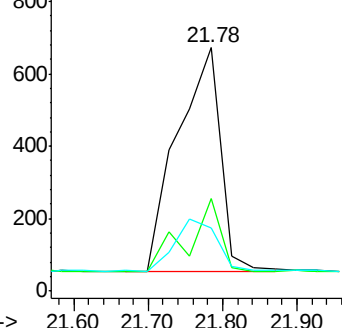
229 25.7 13.8 20.8#



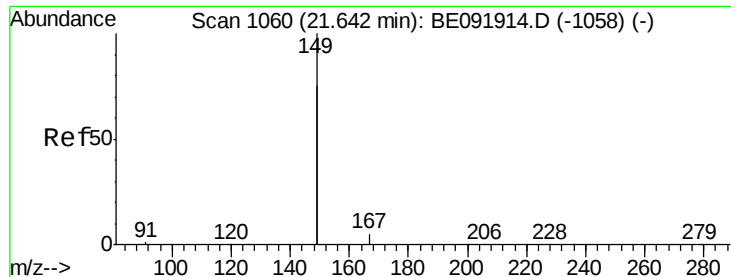
Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



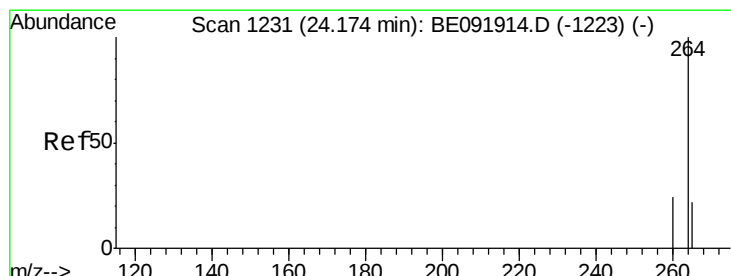
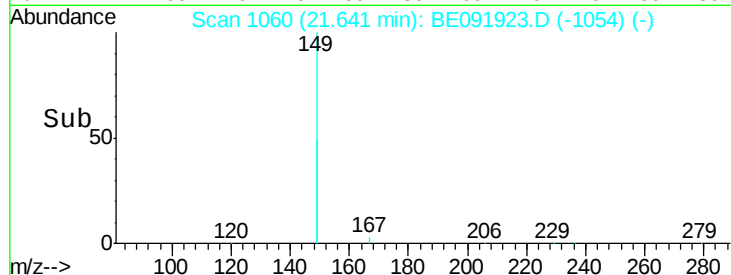
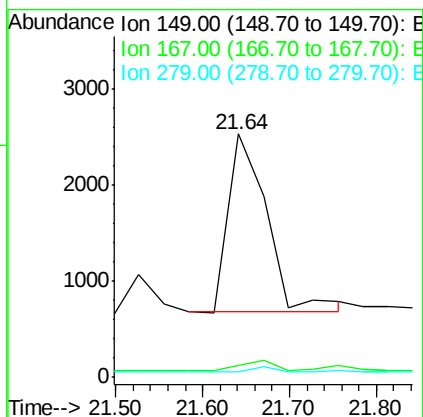
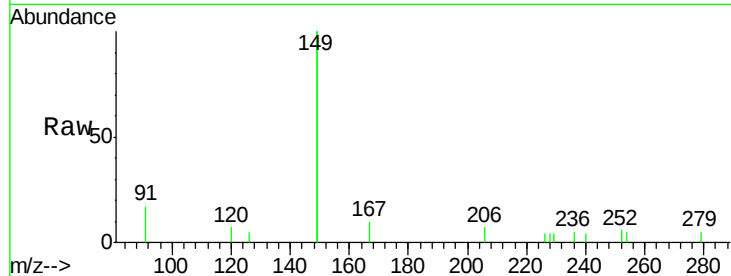
Time--> 21.60 21.70 21.80 21.90



#38  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.12 ng  
 RT: 21.64 min Scan# 1060  
 Delta R.T. -0.03 min  
 Lab File: BE091923.D  
 Acq: 15 Jun 2016 13:59

Instrument :  
 BNA\_E  
 ClientSampleId :  
 OUTFALL001-160607

Tgt Ion:149 Resp: 5708  
 Ion Ratio Lower Upper  
 149 100  
 167 0.0 0.0 0.0  
 279 0.0 0.0 0.0



#40  
 Perylene-d12  
 Concen: 5.00 ng  
 RT: 24.16 min Scan# 1231  
 Delta R.T. -0.01 min  
 Lab File: BE091923.D  
 Acq: 15 Jun 2016 13:59

Tgt Ion:264 Resp: 203084  
 Ion Ratio Lower Upper  
 264 100  
 260 26.2 20.3 30.5  
 265 20.6 17.6 26.4

