

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE112316\  
 Data File : BE092574.D  
 Acq On : 23 Nov 2016 11:40  
 Operator : UM/SJ  
 Sample : PB94794BSD  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB94794BSD

Quant Time: Nov 23 17:56:04 2016  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE111616.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 16 15:43:18 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.14  | 152  | 9627     | 5.00 | ng    | -0.02    |
| 7) Naphthalene-d8         | 10.93 | 136  | 43183    | 5.00 | ng    | 0.00     |
| 12) Acenaphthene-d10      | 14.80 | 164  | 27334    | 5.00 | ng    | 0.00     |
| 18) Phenanthrene-d10      | 17.56 | 188  | 49335    | 5.00 | ng    | 0.00     |
| 24) Chrysene-d12          | 21.72 | 240  | 66159    | 5.00 | ng    | 0.00     |
| 31) Perylene-d12          | 24.08 | 264  | 55893    | 5.00 | ng    | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 4) 2-Fluorophenol           | 5.65  | 112  | 17627    | 10.84 | ng    | -0.02    |
| 5) Phenol-d6                | 7.31  | 99   | 26152    | 9.61  | ng    | -0.05    |
| 8) Nitrobenzene-d5          | 9.32  | 82   | 11895    | 4.26  | ng    | -0.05    |
| 13) 2,4,6-Tribromophenol    | 16.28 | 330  | 5961     | 9.72  | ng    | -0.02    |
| 14) 2-Fluorobiphenyl        | 13.41 | 172  | 27760    | 4.17  | ng    | -0.02    |
| 26) Terphenyl-d14           | 20.16 | 244  | 32750    | 4.33  | ng    | -0.02    |

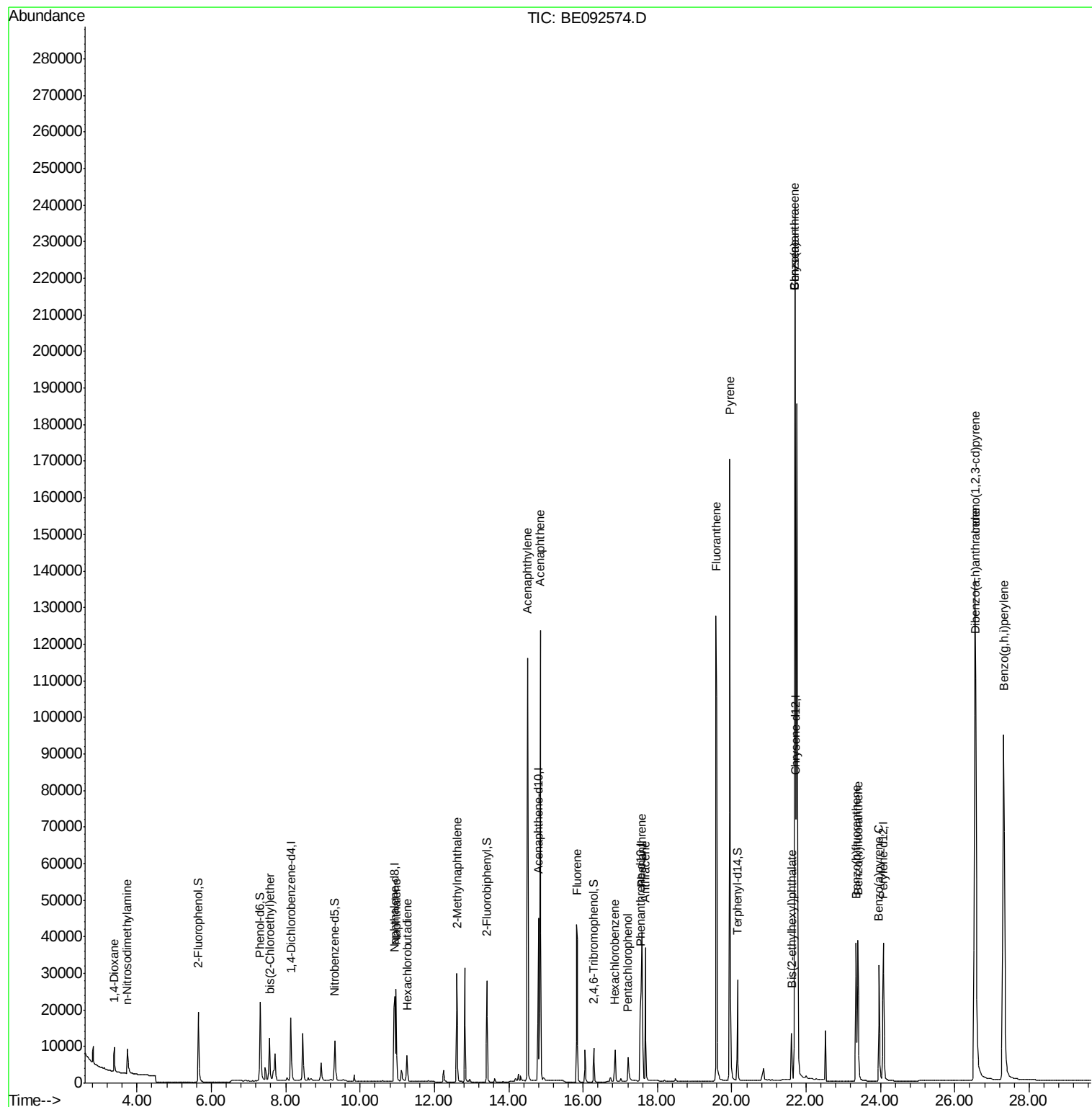
| Target Compounds               | R.T.  | QIon | Response | Conc | Units | Qvalue |
|--------------------------------|-------|------|----------|------|-------|--------|
| 2) 1,4-Dioxane                 | 3.39  | 88   | 4086     | 3.59 | ng    | # 52   |
| 3) n-Nitrosodimethylamine      | 3.74  | 42   | 6457     | 4.04 | ng    | # 96   |
| 6) bis(2-Chloroethyl)ether     | 7.57  | 93   | 11363    | 3.88 | ng    | # 87   |
| 9) Naphthalene                 | 10.97 | 128  | 35149    | 3.94 | ng    | # 95   |
| 10) Hexachlorobutadiene        | 11.26 | 225  | 5238     | 3.86 | ng    | 100    |
| 11) 2-Methylnaphthalene        | 12.60 | 142  | 23430    | 4.12 | ng    | 93     |
| 15) Acenaphthylene             | 14.51 | 152  | 155665   | 4.09 | ng    | 100    |
| 16) Acenaphthene               | 14.85 | 154  | 23550    | 3.79 | ng    | 93     |
| 17) Fluorene                   | 15.84 | 166  | 30494    | 3.96 | ng    | 99     |
| 19) Hexachlorobenzene          | 16.87 | 284  | 9549     | 4.90 | ng    | # 63   |
| 20) Pentachlorophenol          | 17.21 | 266  | 6220     | 7.03 | ng    | # 87   |
| 21) Phenanthrene               | 17.58 | 178  | 51371    | 4.65 | ng    | # 94   |
| 22) Anthracene                 | 17.67 | 178  | 50732    | 4.88 | ng    | 98     |
| 23) Fluoranthene               | 19.58 | 202  | 207612   | 4.03 | ng    | 99     |
| 25) Pyrene                     | 19.95 | 202  | 221991   | 4.22 | ng    | 99     |
| 27) Benzo(a)anthracene         | 21.70 | 228  | 462409   | 7.33 | ng    | 91     |
| 28) Chrysene                   | 21.70 | 228  | 463849   | 8.25 | ng    | # 71   |
| 29) Bis(2-ethylhexyl)phthalate | 21.61 | 149  | 17938    | 4.20 | ng    | # 75   |
| 30) Indeno(1,2,3-cd)pyrene     | 26.55 | 276  | 281820   | 4.59 | ng    | 98     |
| 32) Benzo(b)fluoranthene       | 23.35 | 252  | 55029    | 4.06 | ng    | # 96   |
| 33) Benzo(k)fluoranthene       | 23.39 | 252  | 54202    | 3.82 | ng    | 94     |
| 34) Benzo(a)pyrene             | 23.96 | 252  | 53930    | 4.30 | ng    | 94     |
| 35) Dibenzo(a,h)anthracene     | 26.56 | 278  | 58205    | 4.69 | ng    | 96     |
| 36) Benzo(g,h,i)perylene       | 27.31 | 276  | 242784   | 4.62 | ng    | 98     |

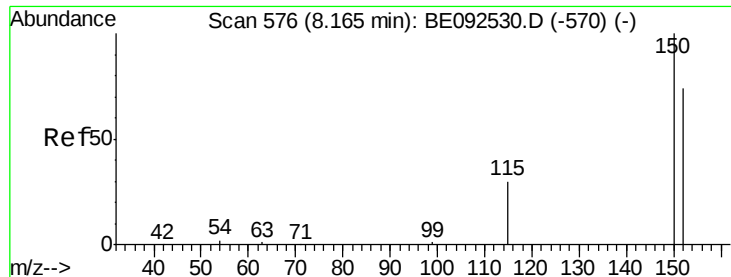
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.14 min Scan# 575

Delta R.T. -0.02 min

Lab File: BE092574.D

Acq: 23 Nov 2016 11:40

Instrument :

BNA\_E

ClientSampleId :

PB94794BSD

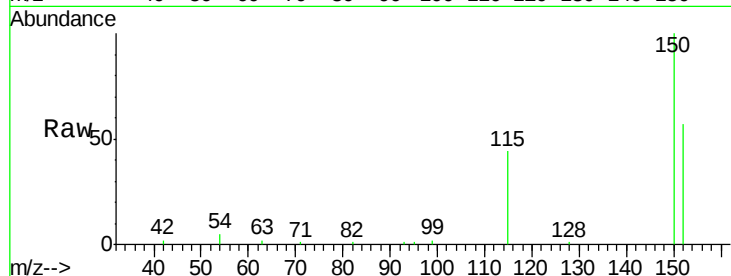
Tgt Ion:152 Resp: 9627

Ion Ratio Lower Upper

152 100

150 174.9 106.0 159.0#

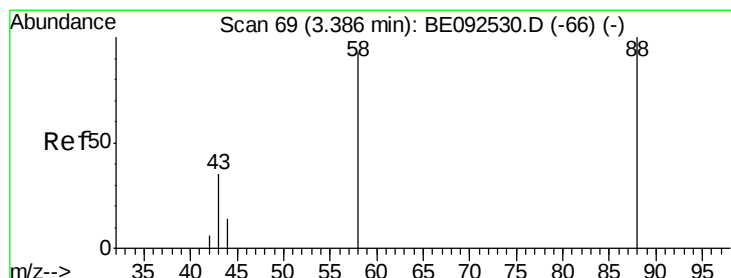
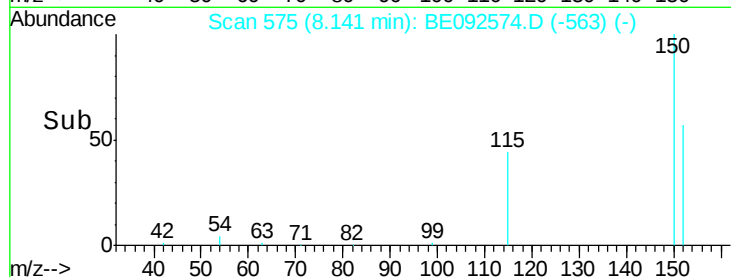
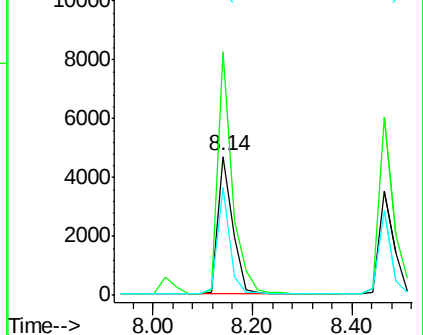
115 77.1 31.2 46.8#



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: 3.59 ng

RT: 3.39 min Scan# 69

Delta R.T. 0.00 min

Lab File: BE092574.D

Acq: 23 Nov 2016 11:40

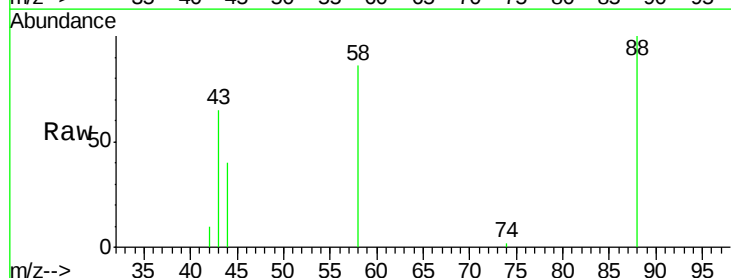
Tgt Ion: 88 Resp: 4086

Ion Ratio Lower Upper

88 100

58 100.9 63.6 95.4#

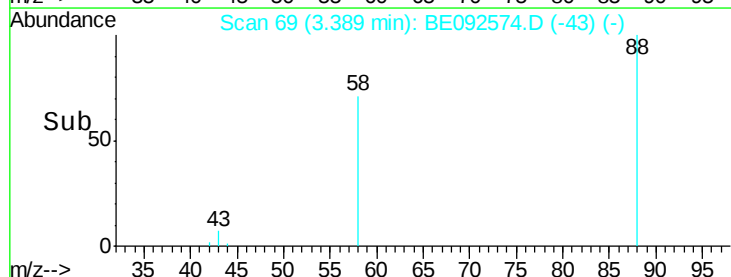
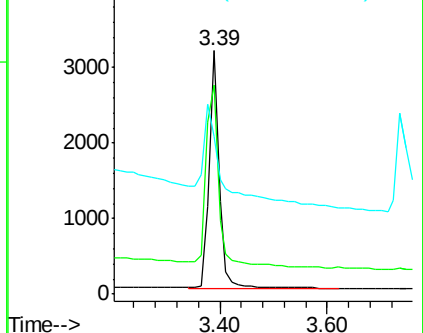
43 94.3 28.0 42.0#

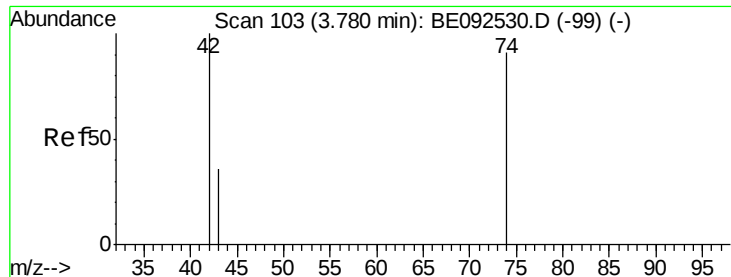


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 4.04 ng

RT: 3.74 min Scan# 99

Delta R.T. -0.04 min

Lab File: BE092574.D

Acq: 23 Nov 2016 11:40

Instrument :

BNA\_E

ClientSampleId :

PB94794BSD

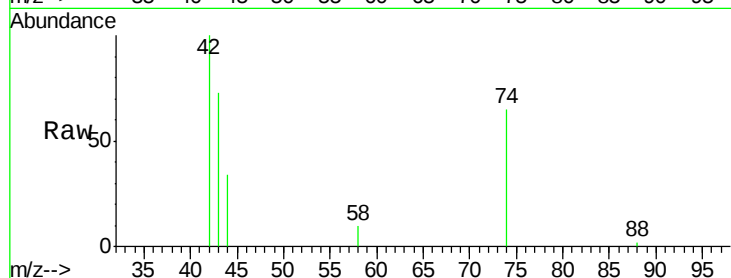
Tgt Ion: 42 Resp: 6457

Ion Ratio Lower Upper

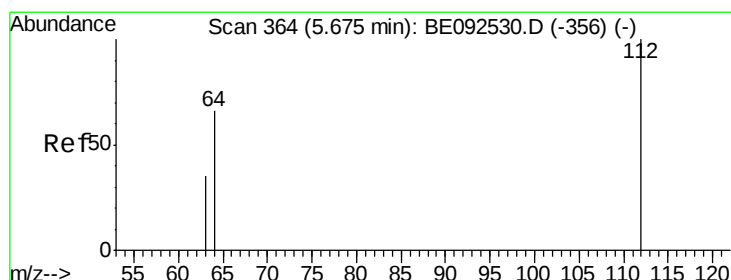
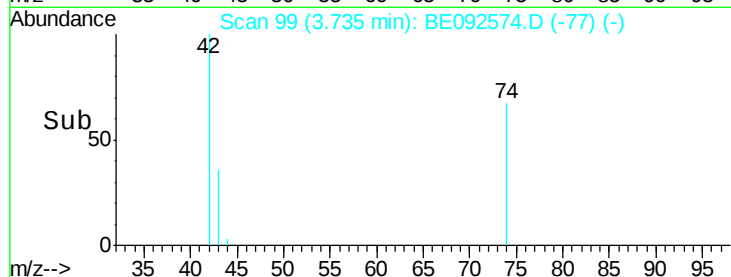
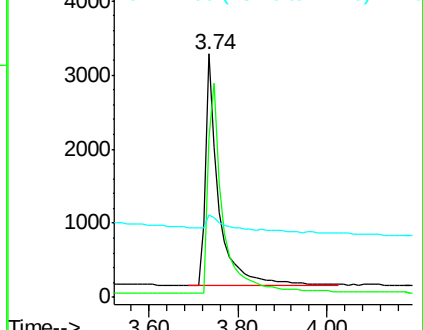
42 100

74 104.9 86.0 129.0

44 14.0 5.1 7.7#



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: 10.84 ng

RT: 5.65 min Scan# 360

Delta R.T. -0.02 min

Lab File: BE092574.D

Acq: 23 Nov 2016 11:40

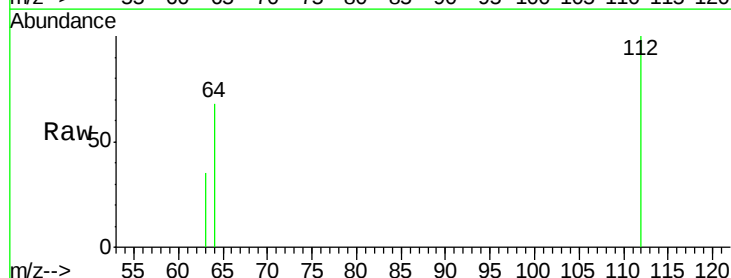
Tgt Ion: 112 Resp: 17627

Ion Ratio Lower Upper

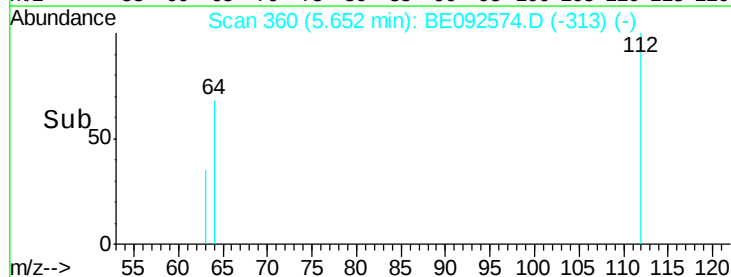
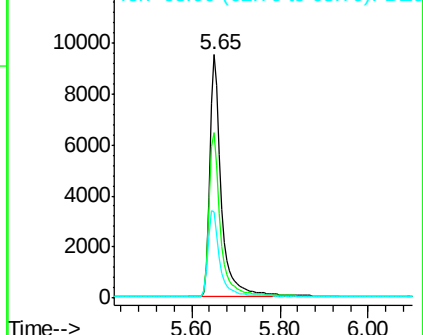
112 100

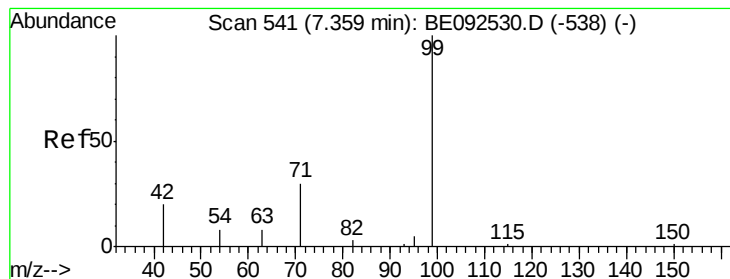
64 68.6 53.5 80.3

63 36.5 27.9 41.9



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: 9.61 ng

RT: 7.31 min Scan# 539

Delta R.T. -0.05 min

Lab File: BE092574.D

Acq: 23 Nov 2016 11:40

Instrument :

BNA\_E

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PB94794BSD

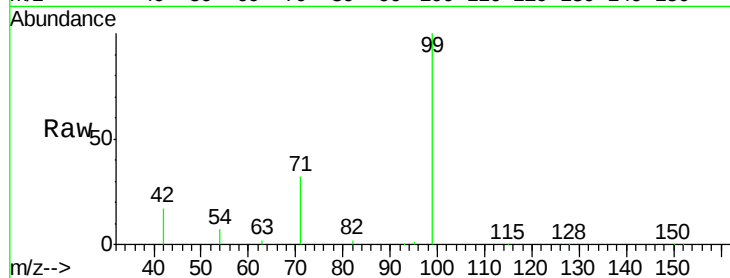
Tgt Ion: 99 Resp: 26152

Ion Ratio Lower Upper

99 100

42 23.1 16.0 24.0

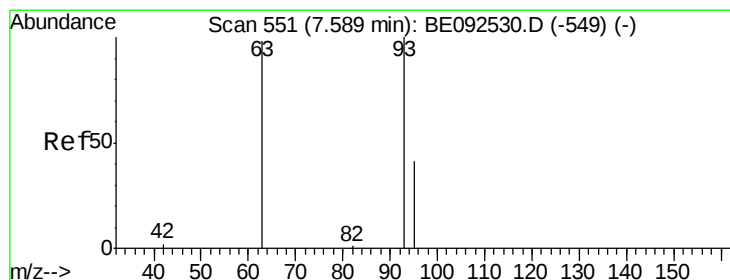
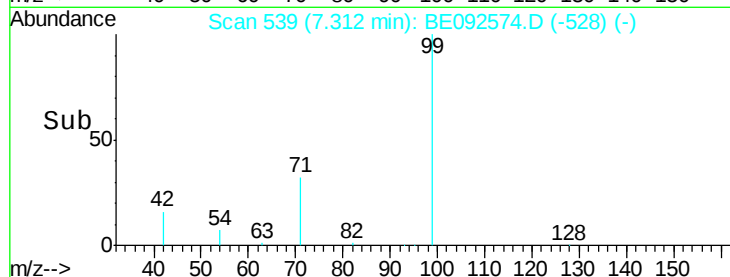
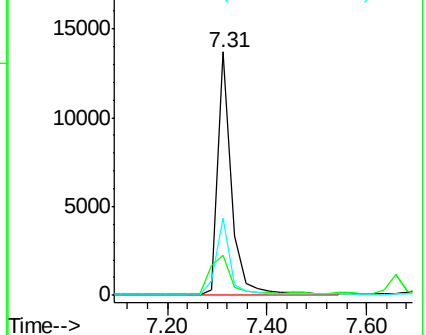
71 32.7 30.6 45.8



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



#6

bis(2-Chloroethyl)ether

Concen: 3.88 ng

RT: 7.57 min Scan# 550

Delta R.T. -0.02 min

Lab File: BE092574.D

Acq: 23 Nov 2016 11:40

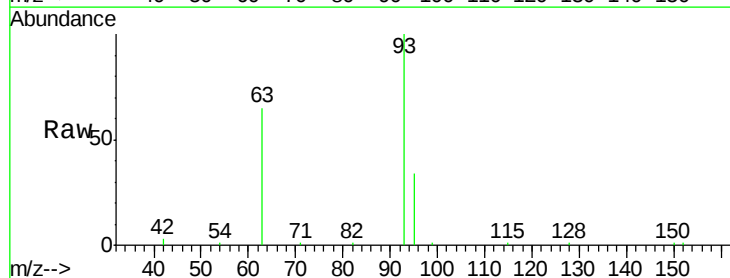
Tgt Ion: 93 Resp: 11363

Ion Ratio Lower Upper

93 100

63 74.9 71.6 107.4

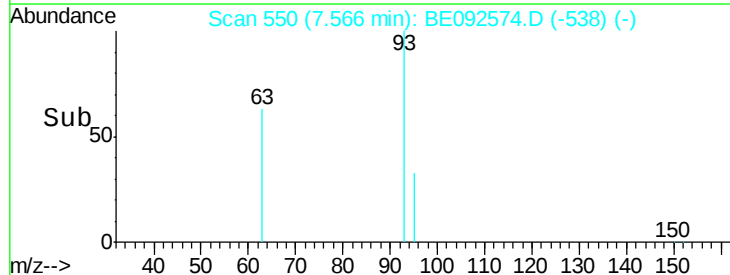
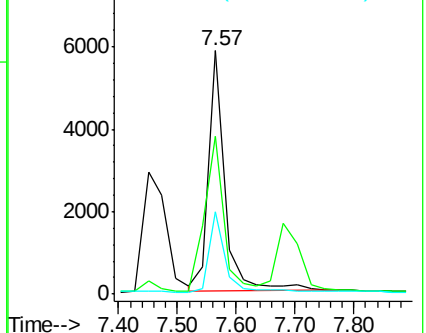
95 32.5 24.0 36.0

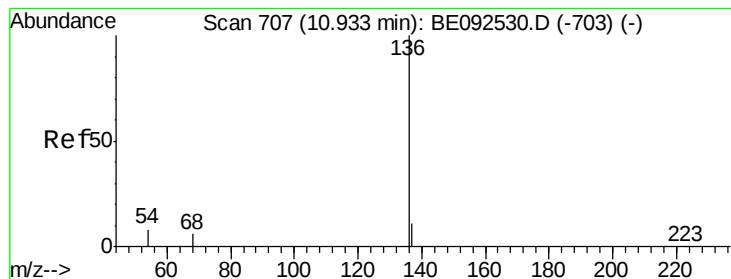


Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.93 min Scan# 707

Delta R.T. 0.00 min

Lab File: BE092574.D

Acq: 23 Nov 2016 11:40

Instrument :

BNA\_E

ClientSampleId :

PB94794BSD

Tgt Ion: 136 Resp: 43183

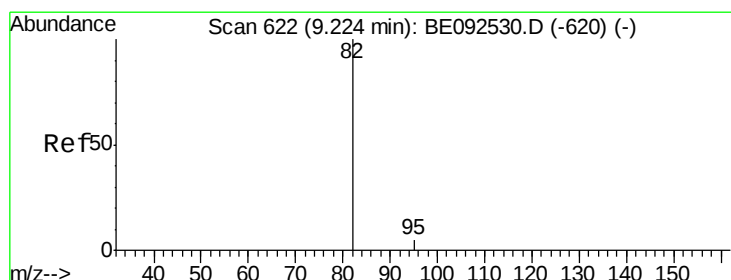
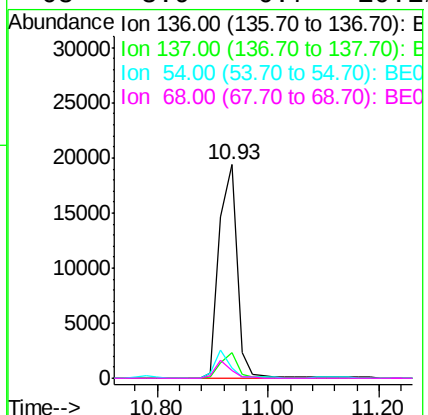
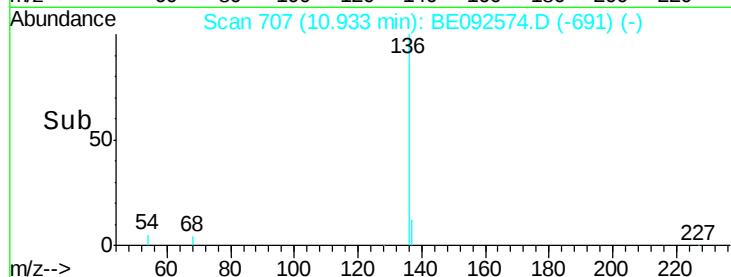
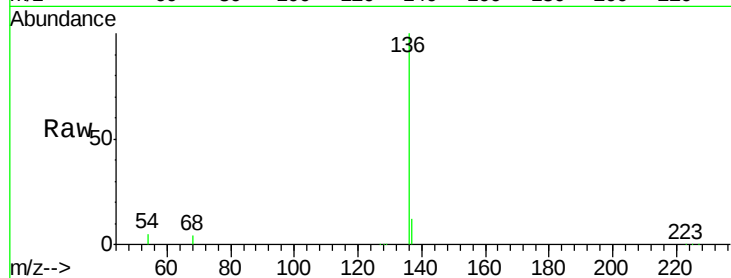
Ion Ratio Lower Upper

136 100

137 12.0 8.2 12.4

54 4.8 9.6 14.4#

68 3.9 6.7 10.1#



#8

Nitrobenzene-d5

Concen: 4.26 ng

RT: 9.32 min Scan# 626

Delta R.T. -0.05 min

Lab File: BE092574.D

Acq: 23 Nov 2016 11:40

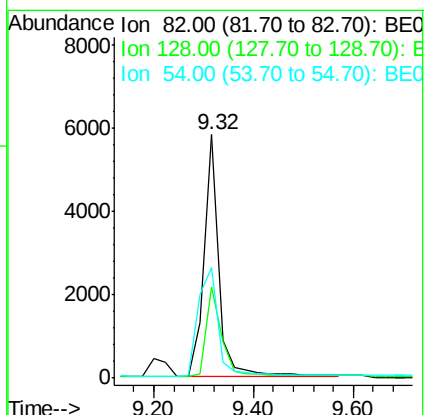
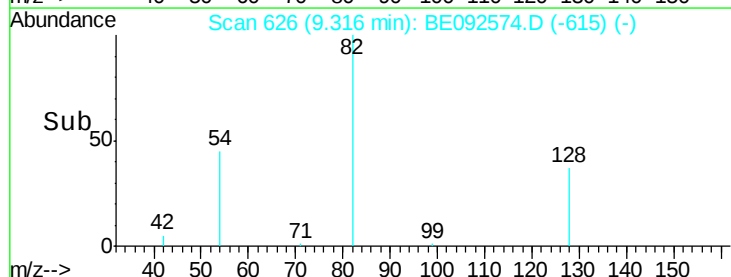
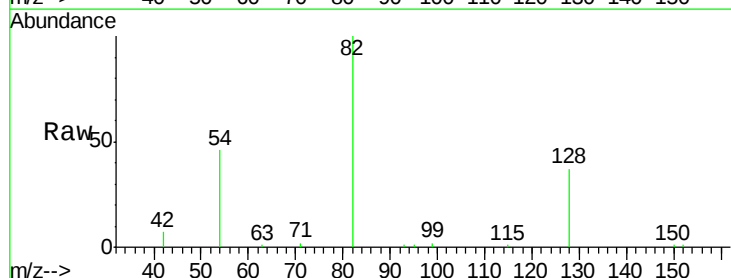
Tgt Ion: 82 Resp: 11895

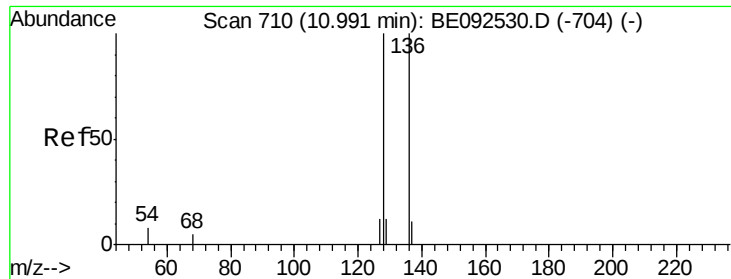
Ion Ratio Lower Upper

82 100

128 37.3 39.0 58.4#

54 45.5 44.8 67.2





#9

Naphthalene

Concen: 3.94 ng

RT: 10.97 min Scan# 709

Delta R.T. -0.02 min

Lab File: BE092574.D

Acq: 23 Nov 2016 11:40

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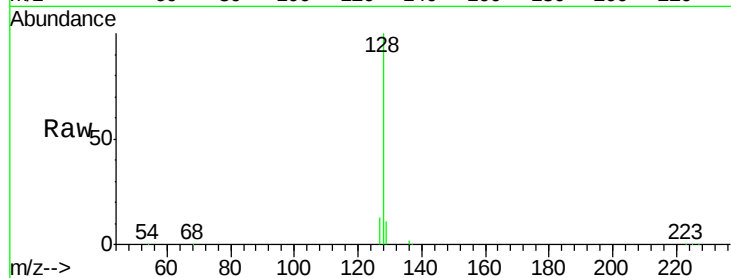
Tgt Ion:128 Resp: 35149

Ion Ratio Lower Upper

128 100

129 11.1 11.2 16.8#

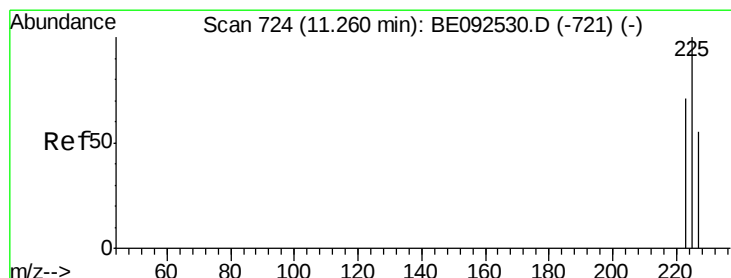
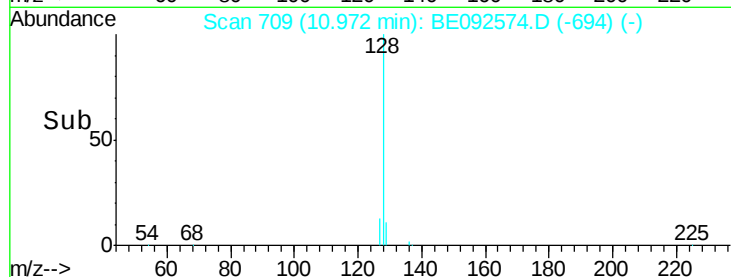
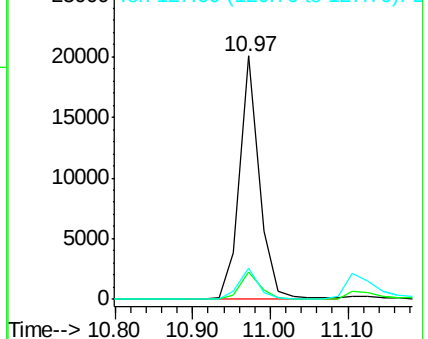
127 13.0 11.6 17.4



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: 3.86 ng

RT: 11.26 min Scan# 724

Delta R.T. 0.00 min

Lab File: BE092574.D

Acq: 23 Nov 2016 11:40

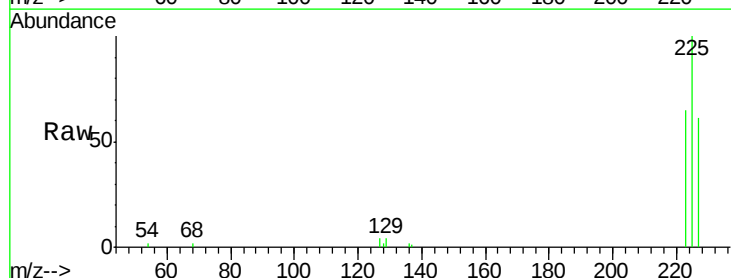
Tgt Ion:225 Resp: 5238

Ion Ratio Lower Upper

225 100

223 63.3 50.6 76.0

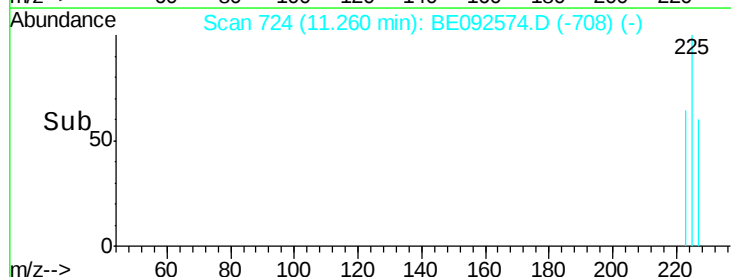
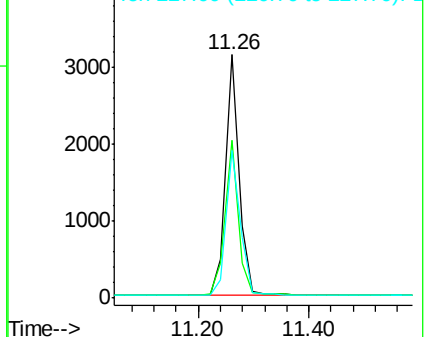
227 63.5 51.4 77.0



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

Concen: 4.12 ng

RT: 12.60 min Scan# 812

Delta R.T. -0.03 min

Lab File: BE092574.D

Acq: 23 Nov 2016 11:40

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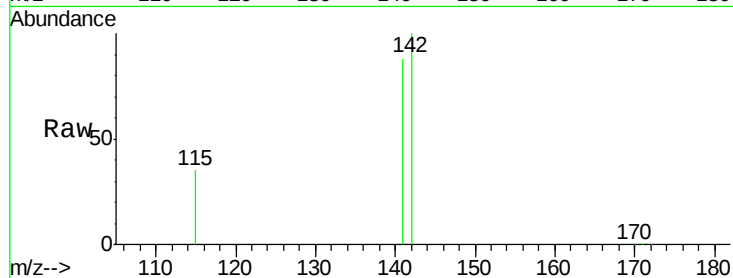
Tgt Ion:142 Resp: 23430

Ion Ratio Lower Upper

142 100

141 87.9 73.7 110.5

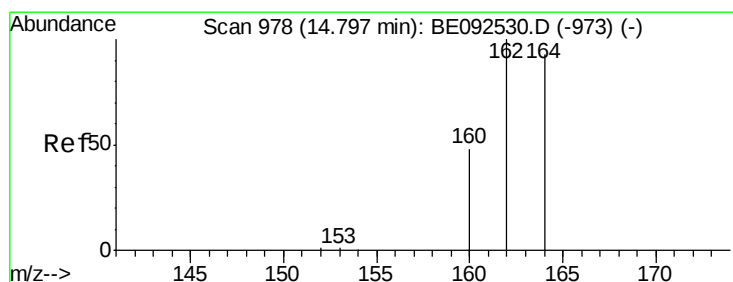
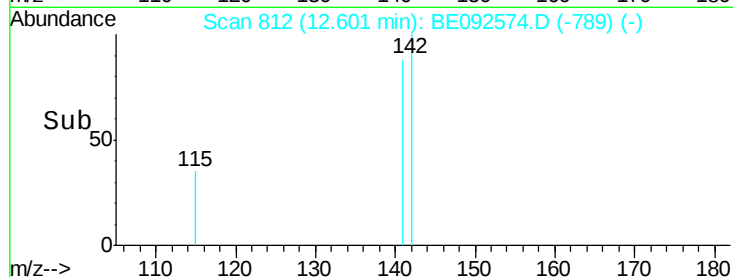
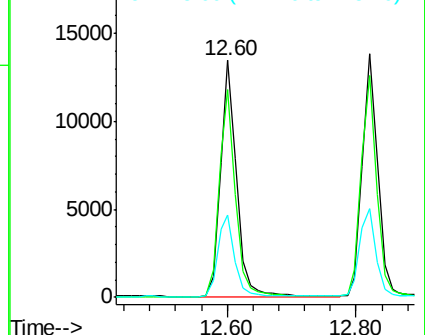
115 34.9 34.0 51.0



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.80 min Scan# 978

Delta R.T. 0.00 min

Lab File: BE092574.D

Acq: 23 Nov 2016 11:40

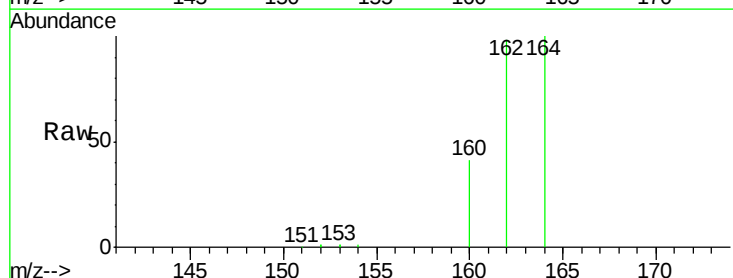
Tgt Ion:164 Resp: 27334

Ion Ratio Lower Upper

164 100

162 97.7 71.4 107.0

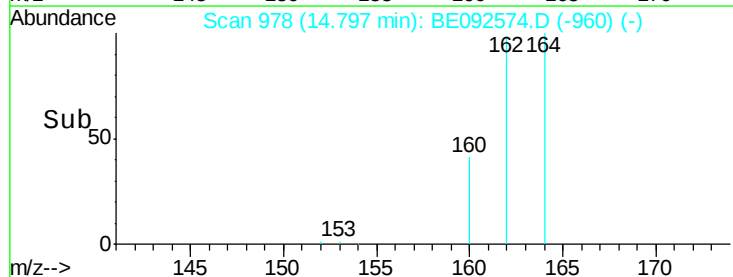
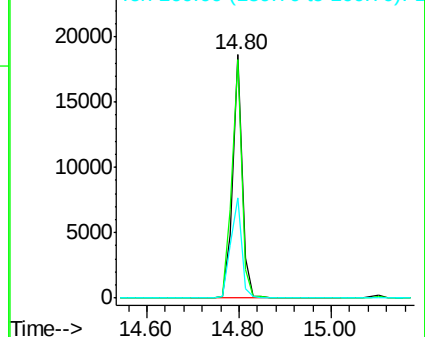
160 40.9 27.4 41.2

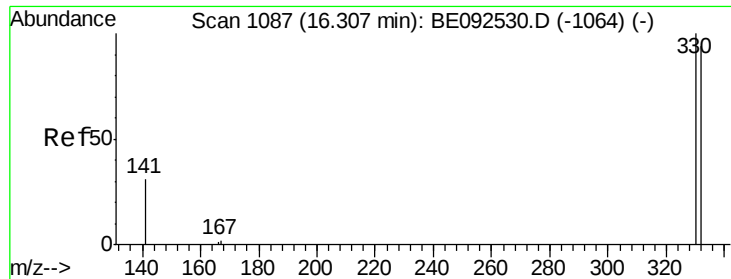


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

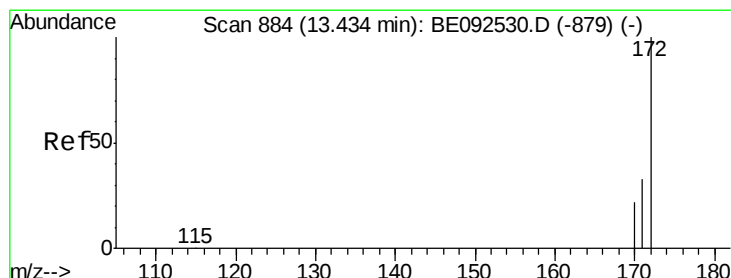
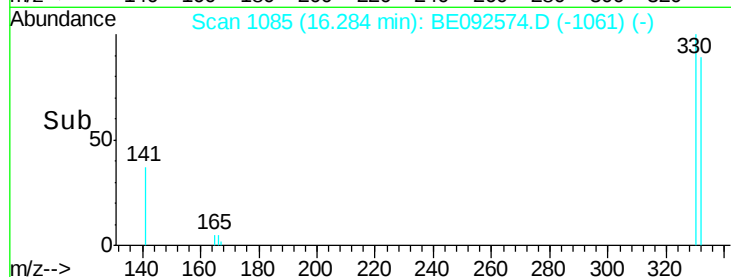
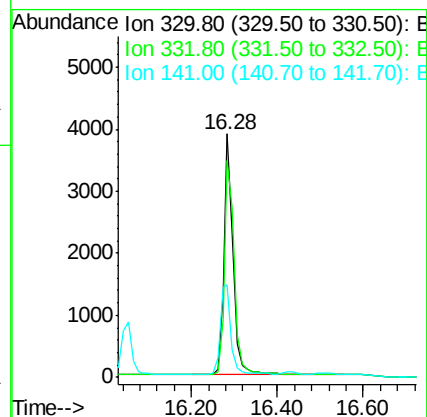
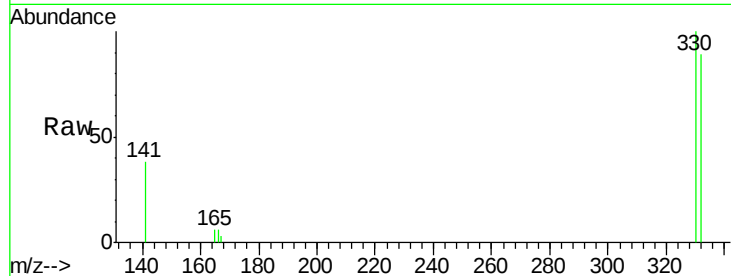




#13  
 2,4,6-Tribromophenol  
 Concen: 9.72 ng  
 RT: 16.28 min Scan# 1085  
 Delta R.T. -0.02 min  
 Lab File: BE092574.D  
 Acq: 23 Nov 2016 11:40

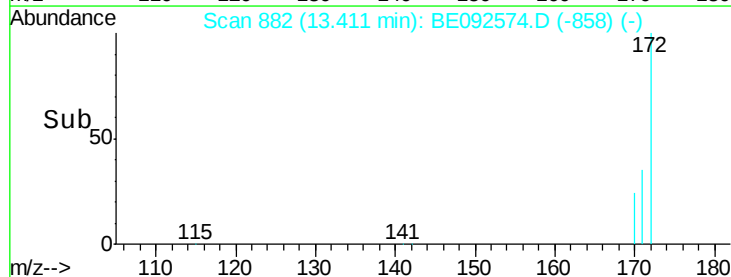
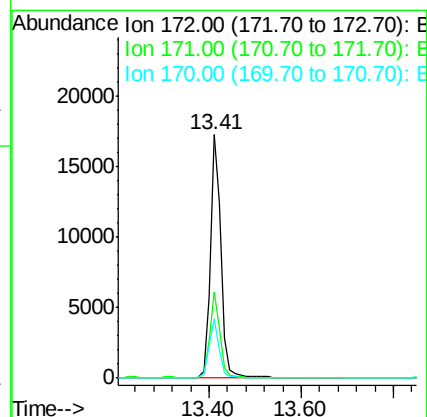
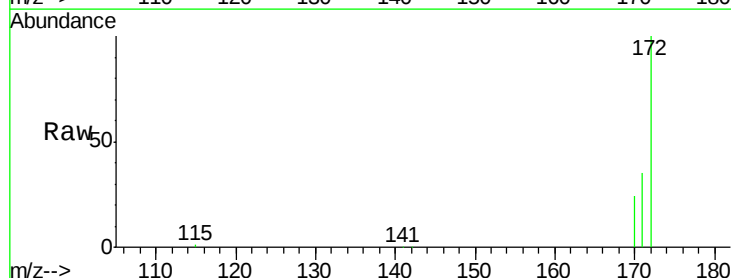
Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB94794BSD

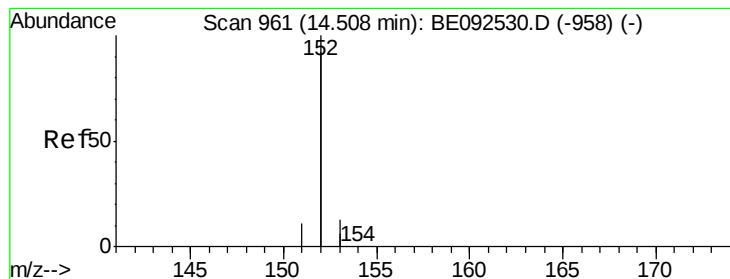
Tgt Ion: 330 Resp: 5961  
 Ion Ratio Lower Upper  
 330 100  
 332 96.1 75.4 113.0  
 141 43.5 31.0 46.6



#14  
 2-Fluorobiphenyl  
 Concen: 4.17 ng  
 RT: 13.41 min Scan# 882  
 Delta R.T. -0.02 min  
 Lab File: BE092574.D  
 Acq: 23 Nov 2016 11:40

Tgt Ion: 172 Resp: 27760  
 Ion Ratio Lower Upper  
 172 100  
 171 35.5 30.1 45.1  
 170 24.5 21.8 32.6





#15

Acenaphthylene

Concen: 4.09 ng

RT: 14.51 min Scan# 961

Delta R.T. 0.00 min

Lab File: BE092574.D

Acq: 23 Nov 2016 11:40

Instrument :

BNA\_E

ClientSampleId :

PB94794BSD

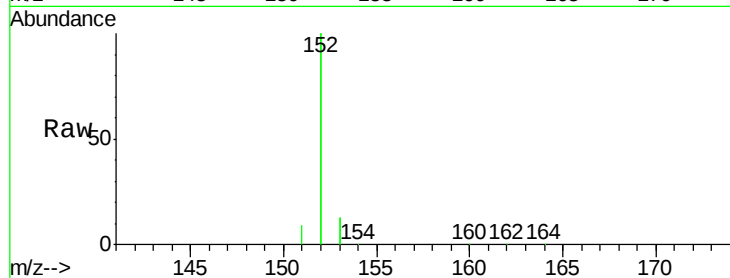
Tgt Ion:152 Resp: 155665

Ion Ratio Lower Upper

152 100

151 4.9 3.9 5.9

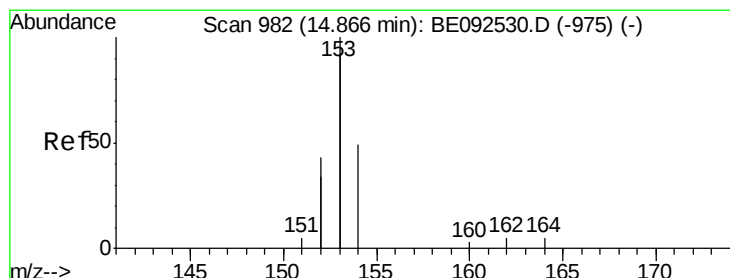
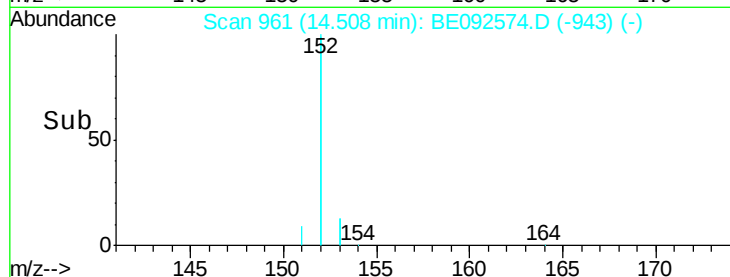
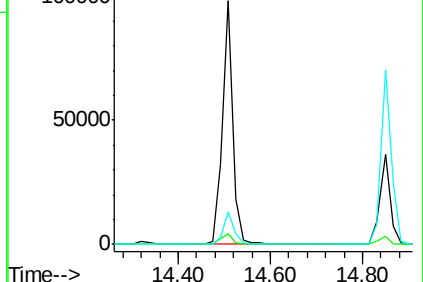
153 13.0 10.4 15.6



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#16

Acenaphthene

Concen: 3.79 ng

RT: 14.85 min Scan# 981

Delta R.T. -0.02 min

Lab File: BE092574.D

Acq: 23 Nov 2016 11:40

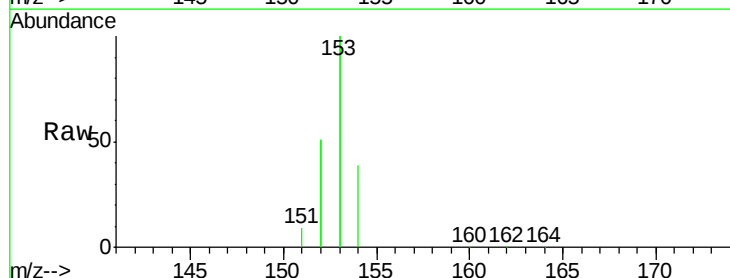
Tgt Ion:154 Resp: 23550

Ion Ratio Lower Upper

154 100

153 455.1 350.8 526.2

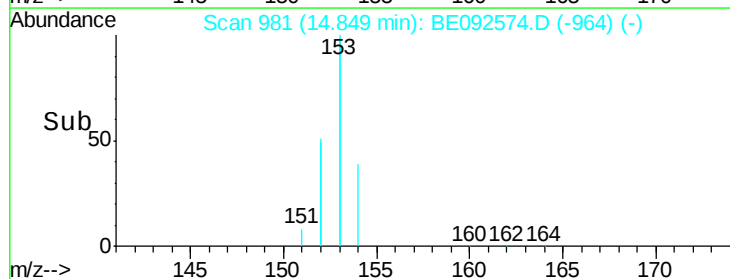
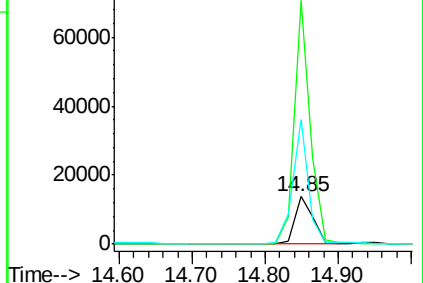
152 227.4 171.1 256.7

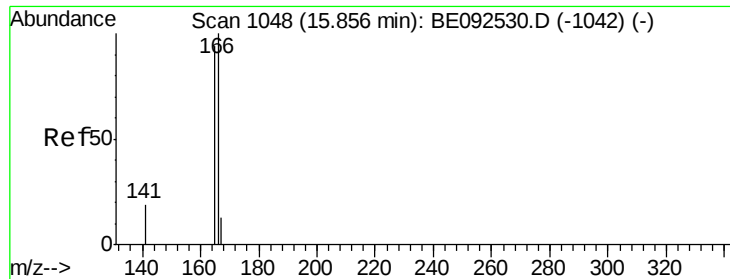


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

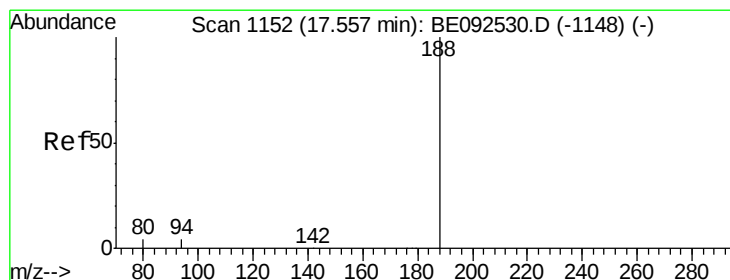
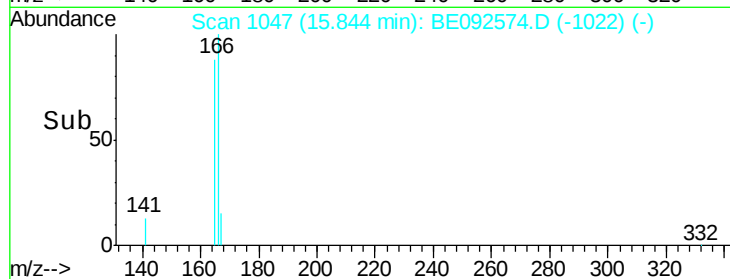
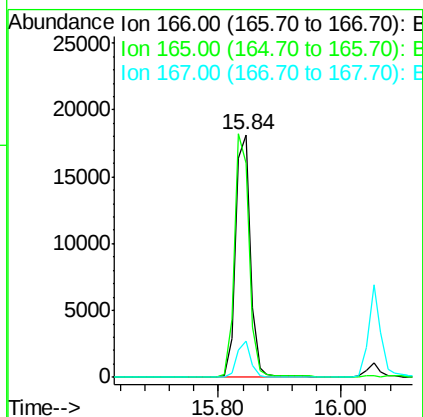
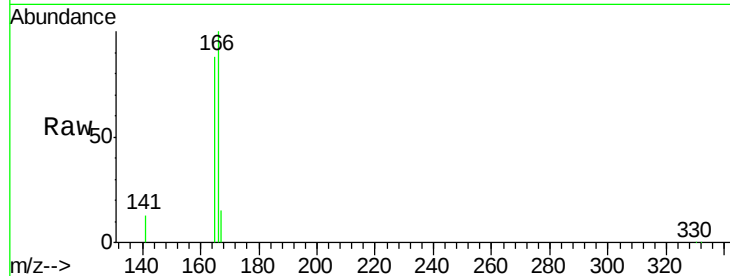




#17  
**Fluorene**  
 Concen: 3.96 ng  
 RT: 15.84 min Scan# 1047  
 Delta R.T. -0.01 min  
 Lab File: BE092574.D  
 Acq: 23 Nov 2016 11:40

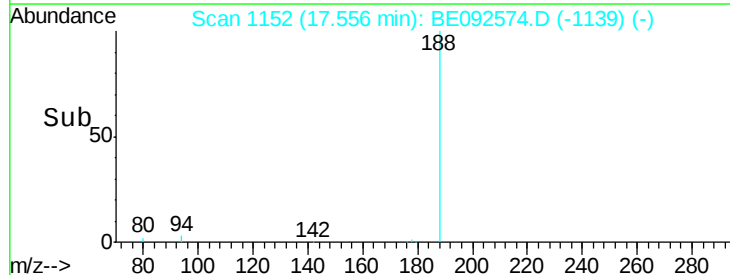
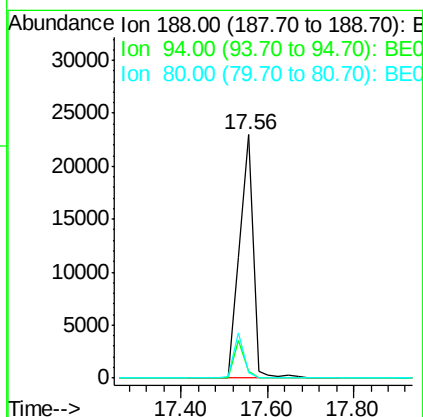
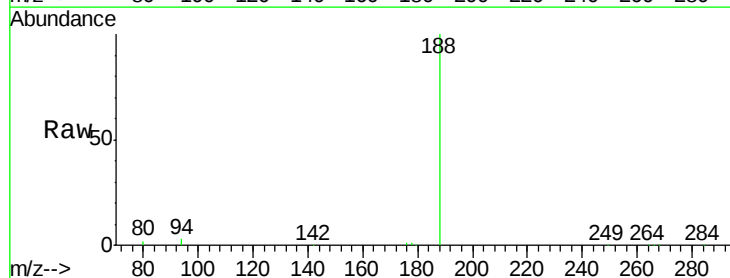
Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB94794BSD

Tgt Ion:166 Resp: 30494  
 Ion Ratio Lower Upper  
 166 100  
 165 99.1 78.2 117.4  
 167 13.5 11.0 16.4



#18  
**Phenanthrene-d10**  
 Concen: 5.00 ng  
 RT: 17.56 min Scan# 1152  
 Delta R.T. -0.00 min  
 Lab File: BE092574.D  
 Acq: 23 Nov 2016 11:40

Tgt Ion:188 Resp: 49335  
 Ion Ratio Lower Upper  
 188 100  
 94 3.0 3.2 4.8#  
 80 2.3 2.6 3.8#

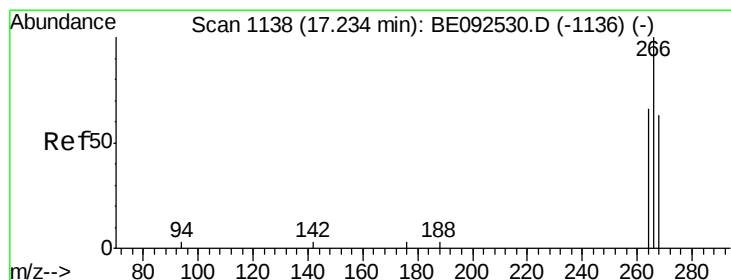
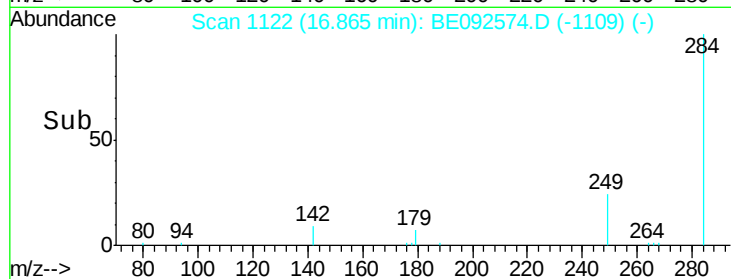
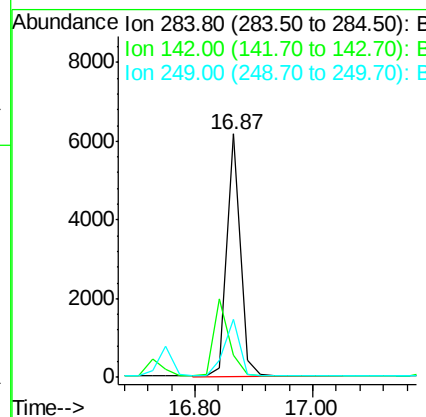
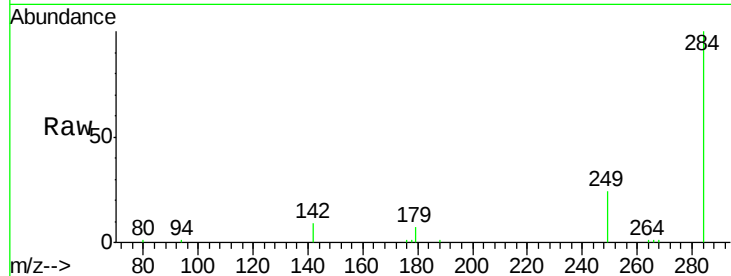




#19  
Hexachlorobenzene  
Concen: 4.90 ng  
RT: 16.87 min Scan# 1122  
Delta R.T. -0.00 min  
Lab File: BE092574.D  
Acq: 23 Nov 2016 11:40

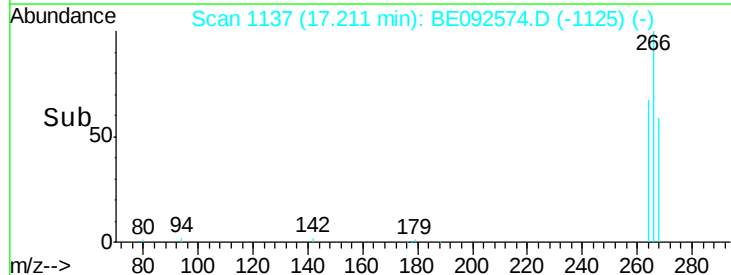
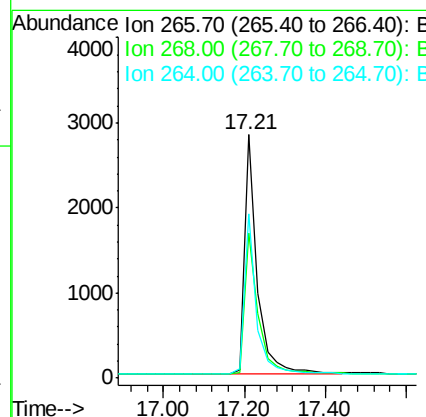
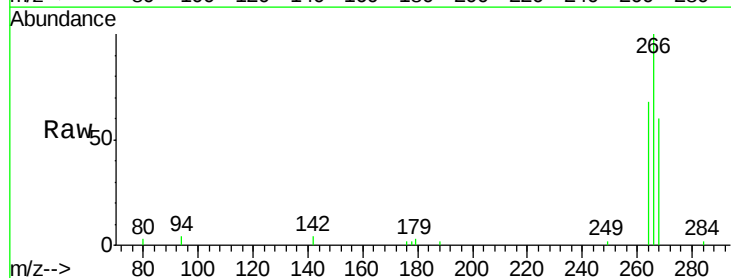
Instrument :  
BNA\_E  
ClientSampleId :  
PB94794BSD

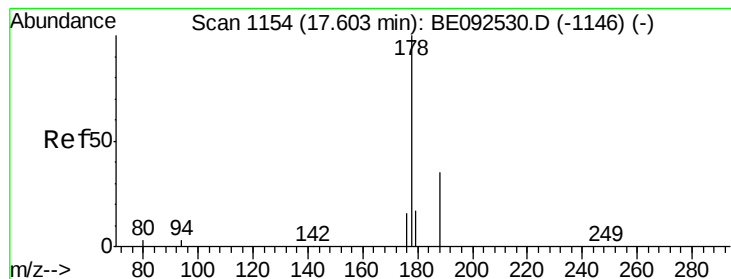
Tgt Ion: 284 Resp: 9549  
Ion Ratio Lower Upper  
284 100  
142 0.0 29.1 43.7#  
249 28.3 27.9 41.9



#20  
Pentachlorophenol  
Concen: 7.03 ng  
RT: 17.21 min Scan# 1137  
Delta R.T. -0.02 min  
Lab File: BE092574.D  
Acq: 23 Nov 2016 11:40

Tgt Ion: 266 Resp: 6220  
Ion Ratio Lower Upper  
266 100  
268 59.6 62.5 93.7#  
264 67.5 57.2 85.8





#21

Phenanthrene

Concen: 4.65 ng

RT: 17.58 min Scan# 1153

Delta R.T. -0.02 min

Lab File: BE092574.D

Acq: 23 Nov 2016 11:40

Instrument :

BNA\_E

ClientSampleId :

PB94794BSD

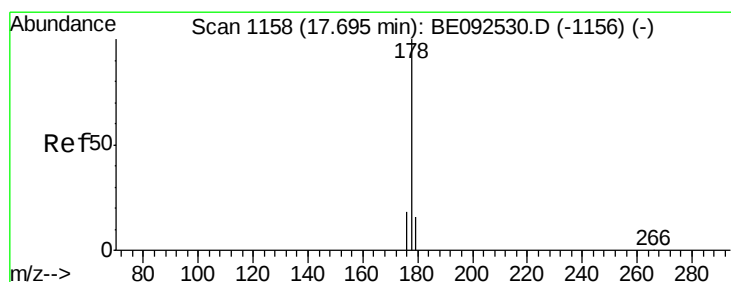
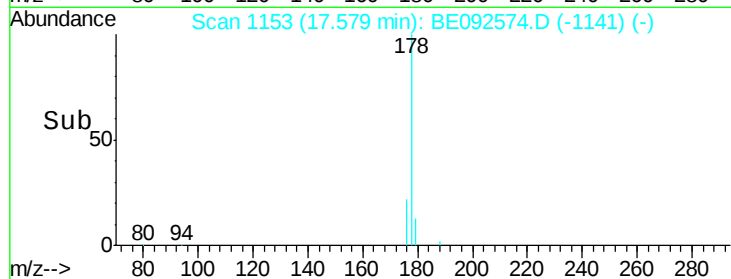
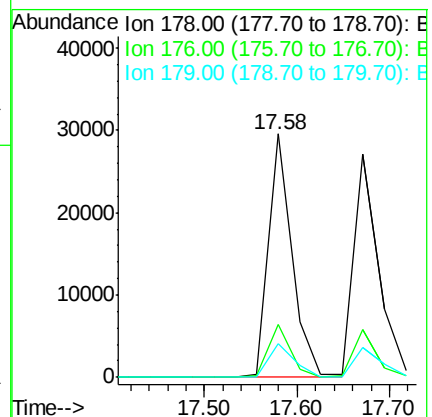
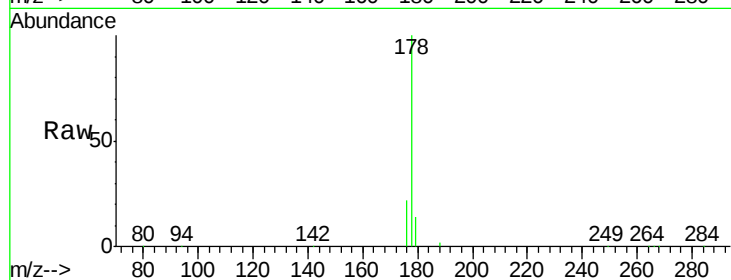
Tgt Ion:178 Resp: 51371

Ion Ratio Lower Upper

178 100

176 20.2 15.8 23.8

179 14.8 16.0 24.0#



#22

Anthracene

Concen: 4.88 ng

RT: 17.67 min Scan# 1157

Delta R.T. -0.02 min

Lab File: BE092574.D

Acq: 23 Nov 2016 11:40

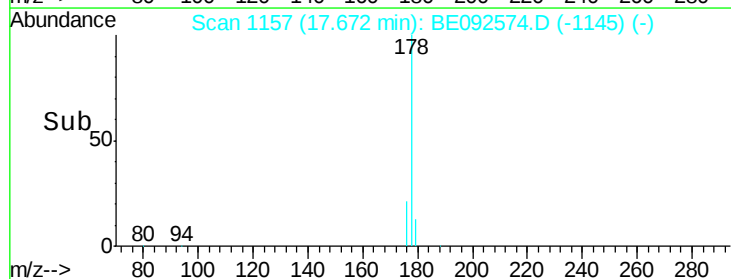
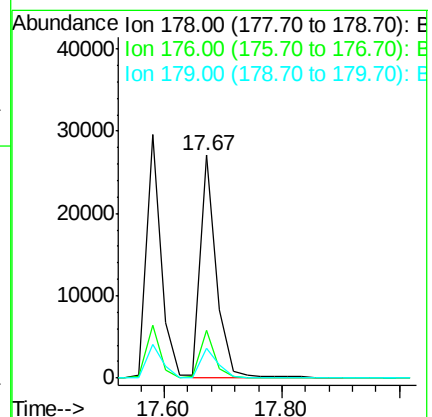
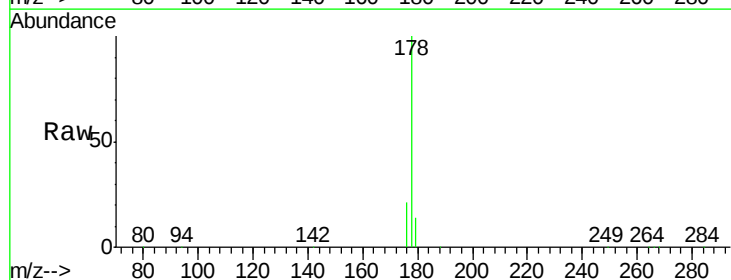
Tgt Ion:178 Resp: 50732

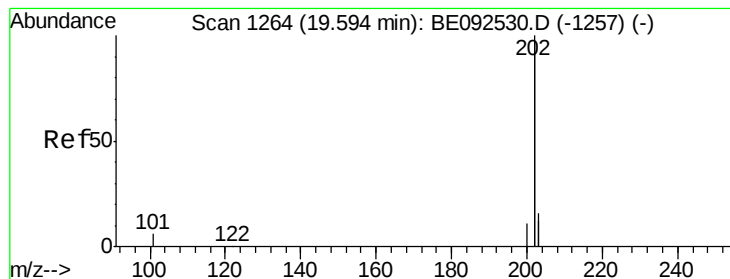
Ion Ratio Lower Upper

178 100

176 19.7 15.0 22.4

179 14.9 12.2 18.2





#23

Fluoranthene

Concen: 4.03 ng

RT: 19.58 min Scan# 1263

Delta R.T. -0.02 min

Lab File: BE092574.D

Acq: 23 Nov 2016 11:40

Instrument :

BNA\_E

ClientSampleId :

PB94794BSD

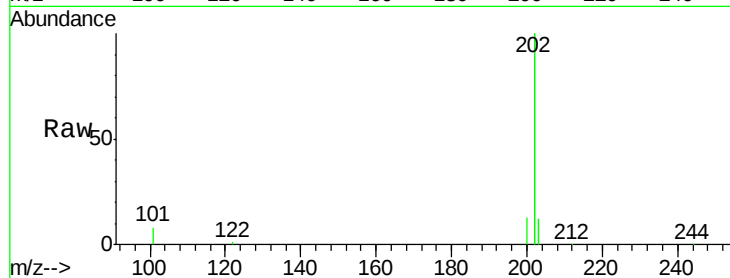
Tgt Ion: 202 Resp: 207612

Ion Ratio Lower Upper

202 100

101 3.0 2.2 3.4

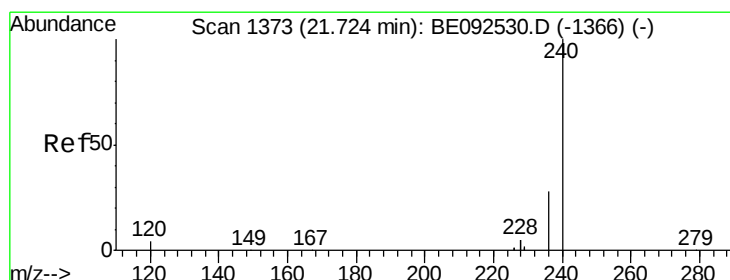
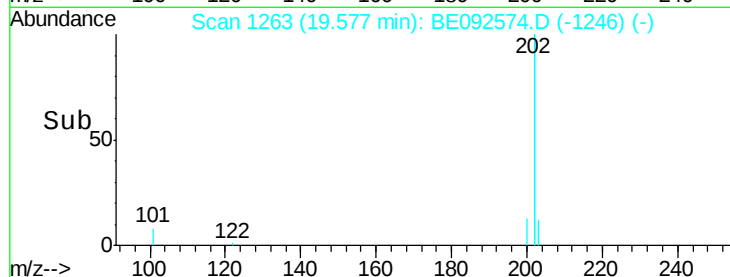
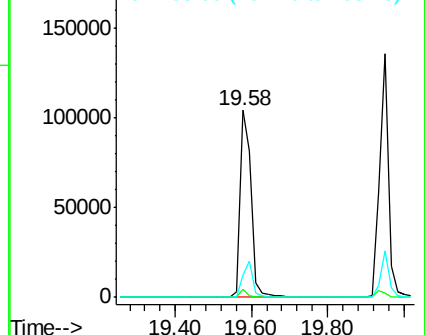
203 17.5 13.7 20.5



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#24

Chrysene-d12

Concen: 5.00 ng

RT: 21.72 min Scan# 1373

Delta R.T. -0.00 min

Lab File: BE092574.D

Acq: 23 Nov 2016 11:40

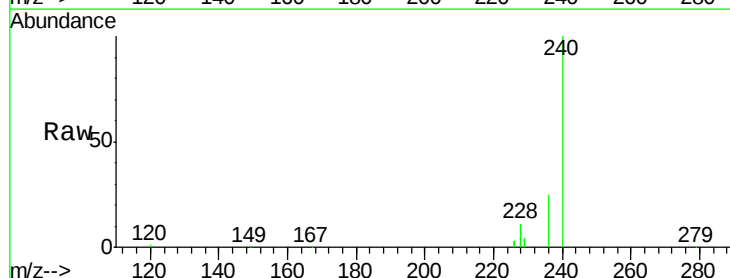
Tgt Ion: 240 Resp: 66159

Ion Ratio Lower Upper

240 100

120 1.4 2.6 4.0#

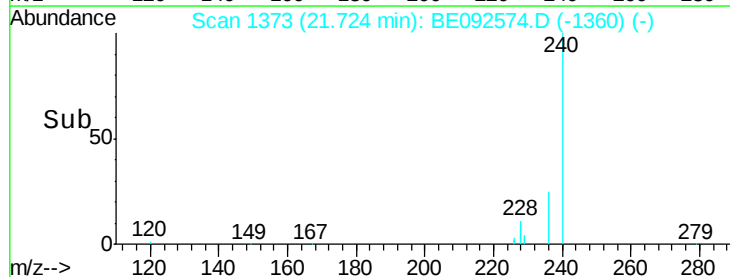
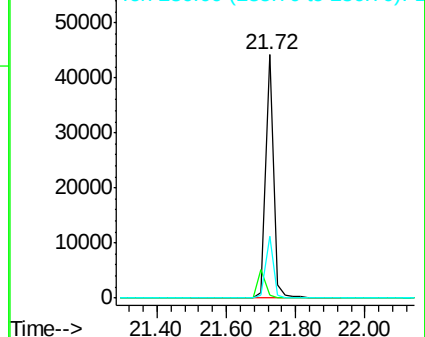
236 25.4 24.6 37.0



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

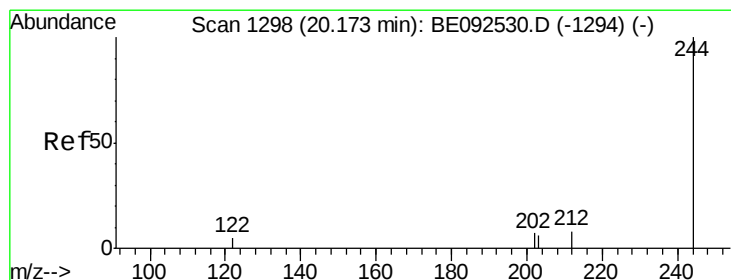
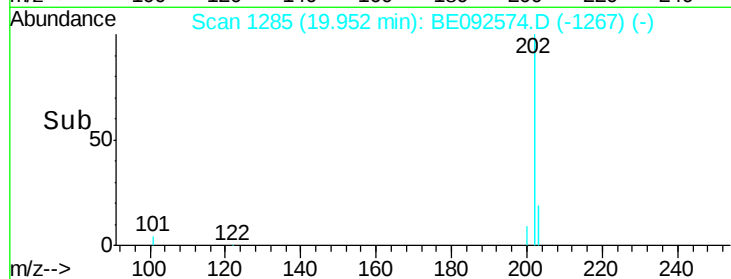
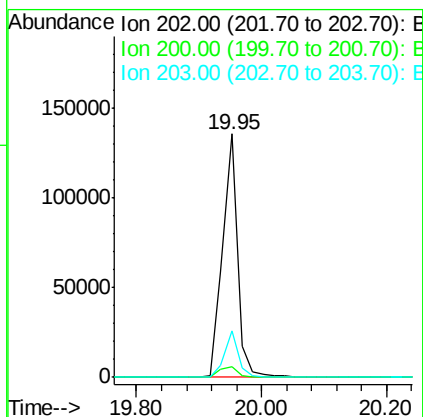
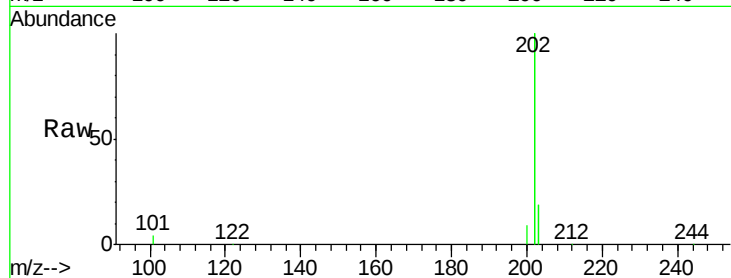




#25  
 Pyrene  
 Concen: 4.22 ng  
 RT: 19.95 min Scan# 1285  
 Delta R.T. 0.00 min  
 Lab File: BE092574.D  
 Acq: 23 Nov 2016 11:40

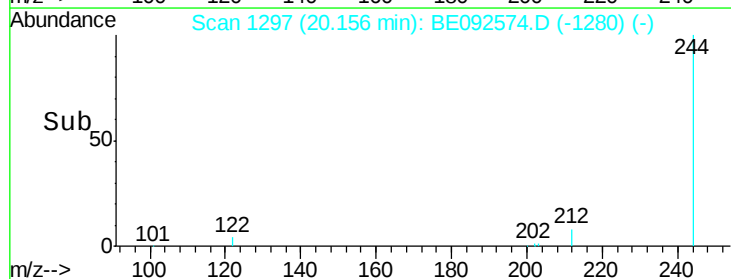
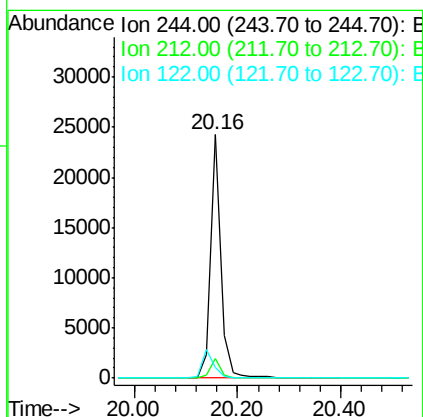
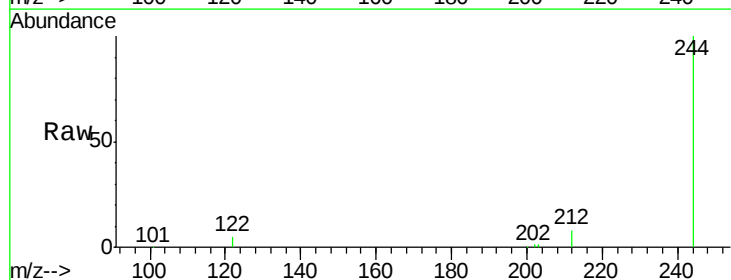
Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB94794BSD

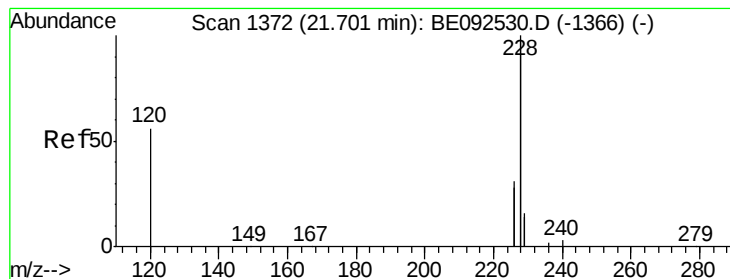
Tgt Ion: 202 Resp: 221991  
 Ion Ratio Lower Upper  
 202 100  
 200 5.3 4.2 6.4  
 203 17.8 13.9 20.9



#26  
 Terphenyl-d14  
 Concen: 4.33 ng  
 RT: 20.16 min Scan# 1297  
 Delta R.T. -0.02 min  
 Lab File: BE092574.D  
 Acq: 23 Nov 2016 11:40

Tgt Ion: 244 Resp: 32750  
 Ion Ratio Lower Upper  
 244 100  
 212 8.3 6.7 10.1  
 122 4.6 3.6 5.4





#27

Benzo(a)anthracene

Concen: 7.33 ng

RT: 21.70 min Scan# 1372

Delta R.T. 0.00 min

Lab File: BE092574.D

Acq: 23 Nov 2016 11:40

Instrument :

BNA\_E

ClientSampleId :

PB94794BSD

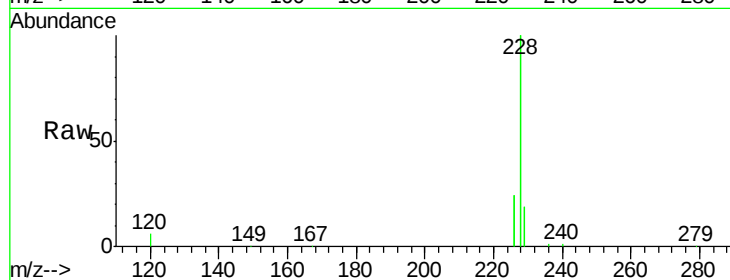
Tgt Ion:228 Resp: 462409

Ion Ratio Lower Upper

228 100

226 23.7 23.6 35.4

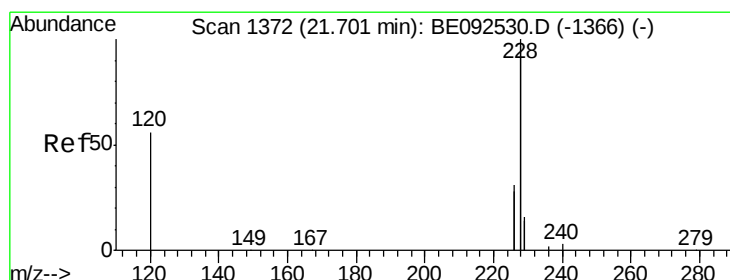
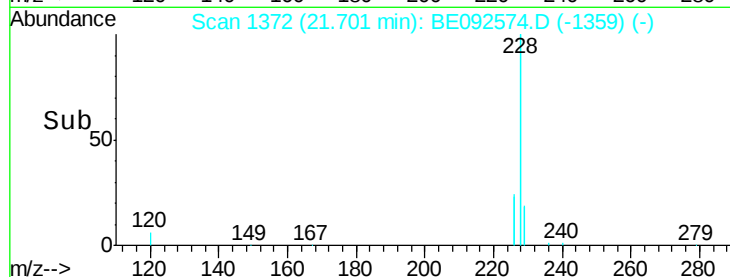
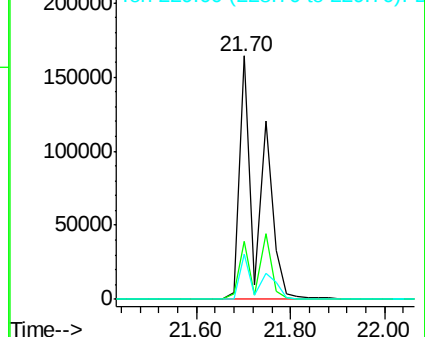
229 18.7 13.3 19.9



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



#28

Chrysene

Concen: 8.25 ng

RT: 21.70 min Scan# 1372

Delta R.T. -0.07 min

Lab File: BE092574.D

Acq: 23 Nov 2016 11:40

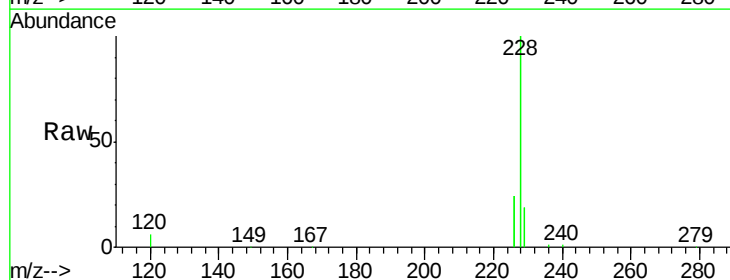
Tgt Ion:228 Resp: 463849

Ion Ratio Lower Upper

228 100

226 23.7 36.3 54.5#

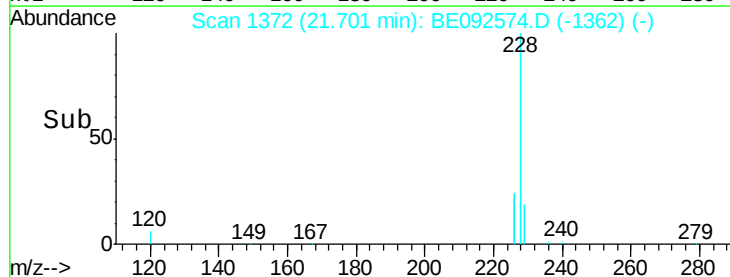
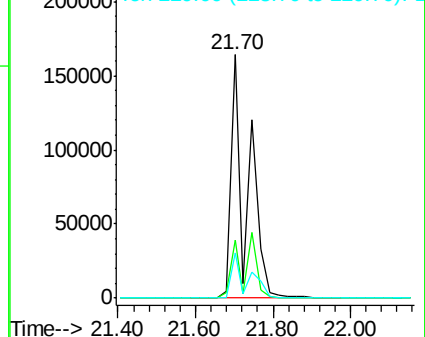
229 18.7 10.6 16.0#



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





#29

Bis(2-ethylhexyl)phthalate

Concen: 4.20 ng

RT: 21.61 min Scan# 1368

Delta R.T. -0.02 min

Lab File: BE092574.D

Acq: 23 Nov 2016 11:40

Instrument :

BNA\_E

ClientSampleId :

PB94794BSD

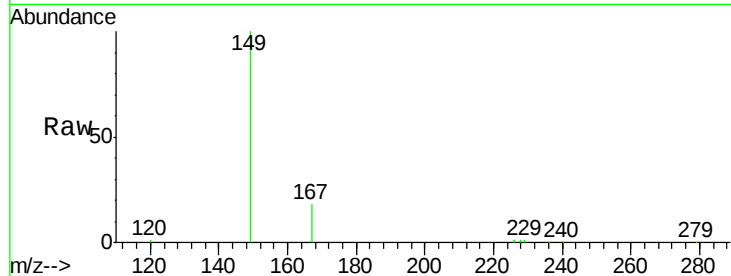
Tgt Ion:149 Resp: 17938

Ion Ratio Lower Upper

149 100

167 22.6 16.0 24.0

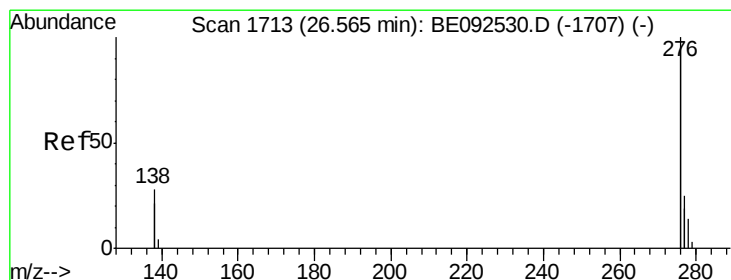
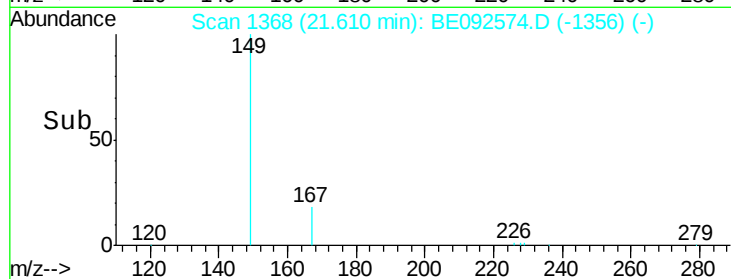
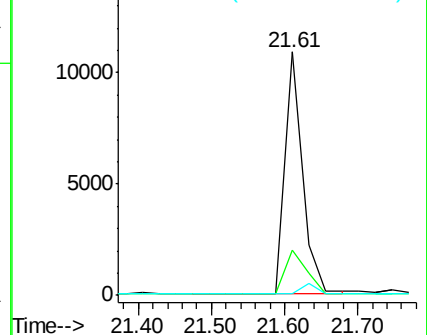
279 0.0 16.0 24.0#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#30

Indeno(1,2,3-cd)pyrene

Concen: 4.59 ng

RT: 26.55 min Scan# 1712

Delta R.T. -0.02 min

Lab File: BE092574.D

Acq: 23 Nov 2016 11:40

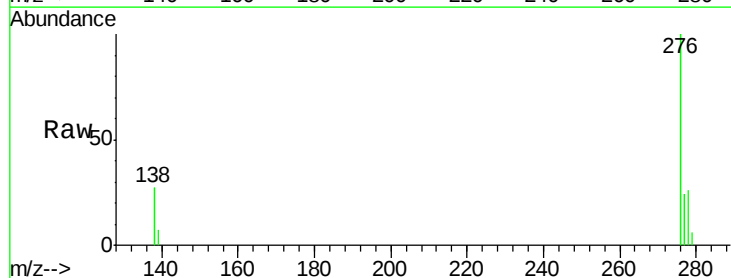
Tgt Ion:276 Resp: 281820

Ion Ratio Lower Upper

276 100

138 27.7 20.3 30.5

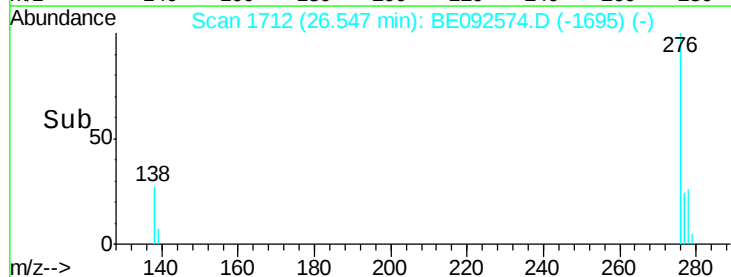
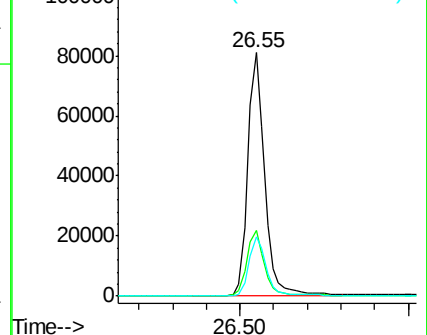
277 24.6 19.7 29.5

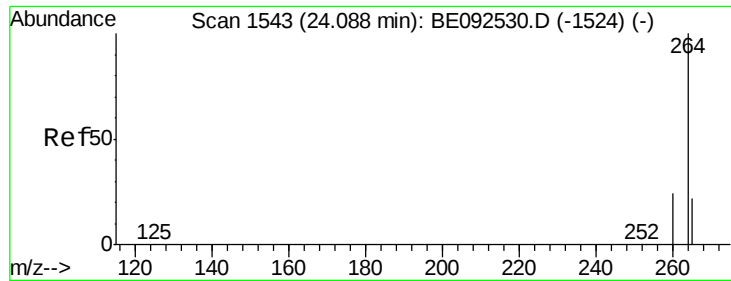


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

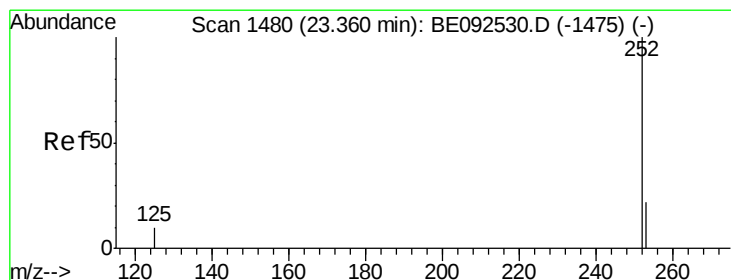
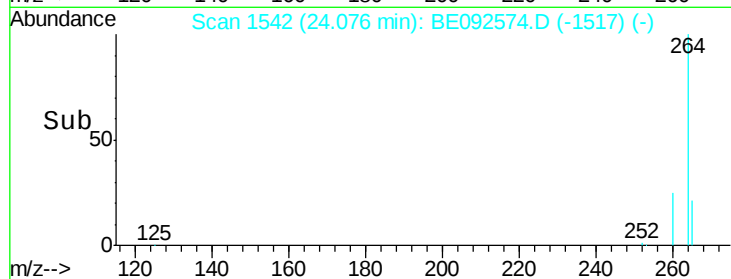
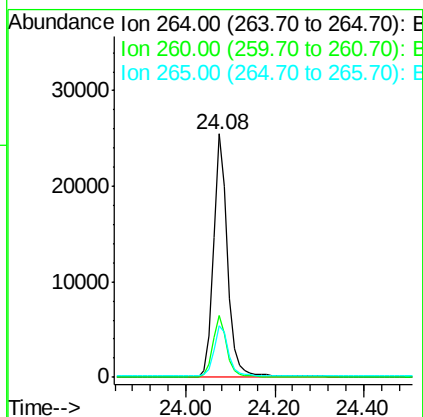
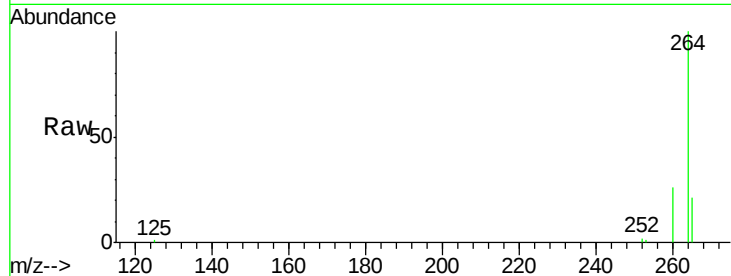




#31  
**Perylene-d12**  
 Concen: 5.00 ng  
 RT: 24.08 min Scan# 1542  
 Delta R.T. -0.01 min  
 Lab File: BE092574.D  
 Acq: 23 Nov 2016 11:40

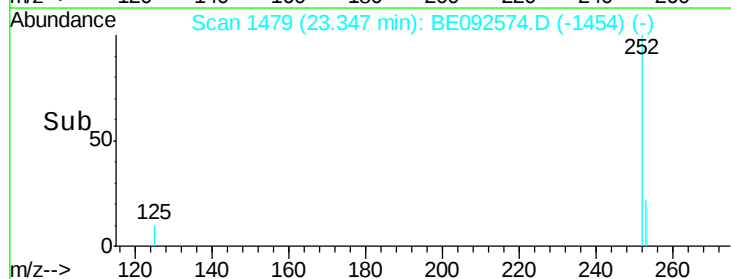
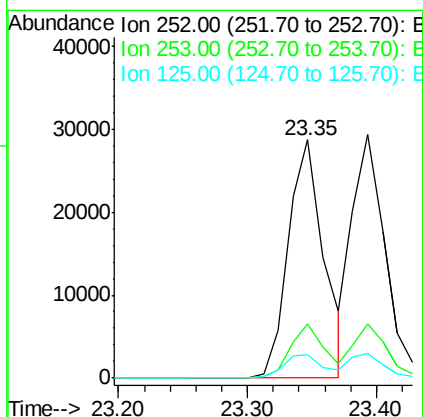
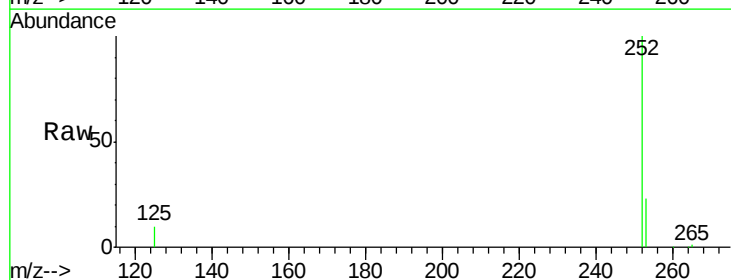
Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB94794BSD

Tgt Ion: 264 Resp: 55893  
 Ion Ratio Lower Upper  
 264 100  
 260 25.5 20.1 30.1  
 265 21.4 17.9 26.9



#32  
**Benzo(b)fluoranthene**  
 Concen: 4.06 ng  
 RT: 23.35 min Scan# 1479  
 Delta R.T. -0.01 min  
 Lab File: BE092574.D  
 Acq: 23 Nov 2016 11:40

Tgt Ion: 252 Resp: 55029  
 Ion Ratio Lower Upper  
 252 100  
 253 22.7 18.7 28.1  
 125 10.1 10.5 15.7#





#33

Benzo(k)fluoranthene

Concen: 3.82 ng

RT: 23.39 min Scan# 1483

Delta R.T. -0.01 min

Lab File: BE092574.D

Acq: 23 Nov 2016 11:40

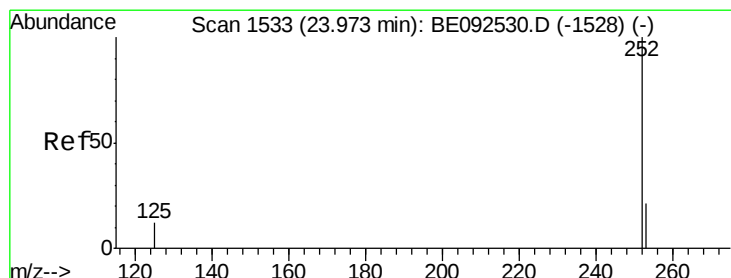
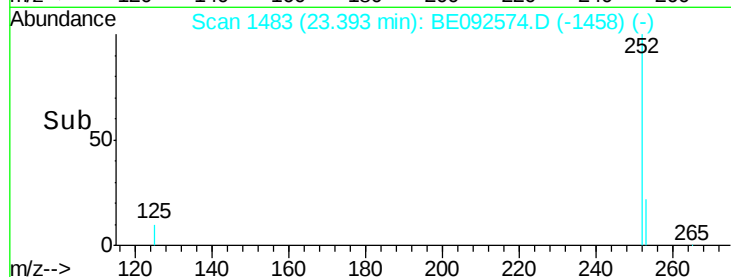
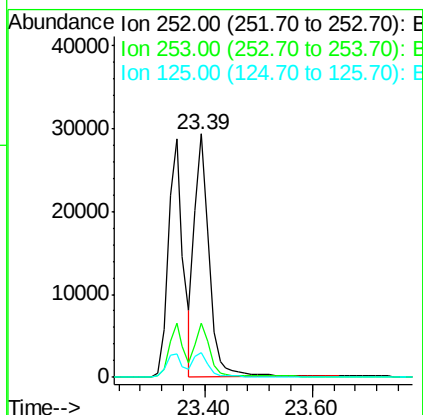
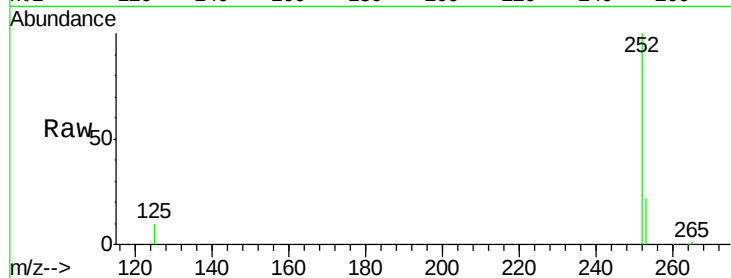
Instrument :

BNA\_E

ClientSampleId :

PB94794BSD

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 54202 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 22.2  | 20.3  | 30.5  |
| 125       | 10.2  | 9.6   | 14.4  |



#34

Benzo(a)pyrene

Concen: 4.30 ng

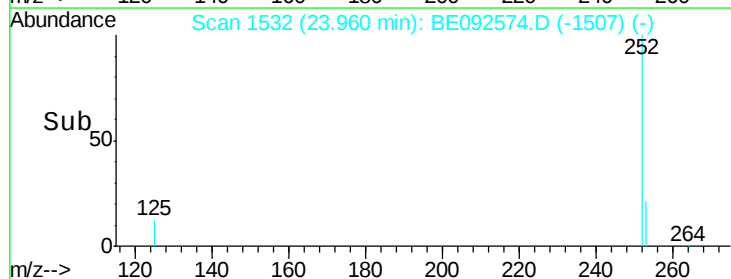
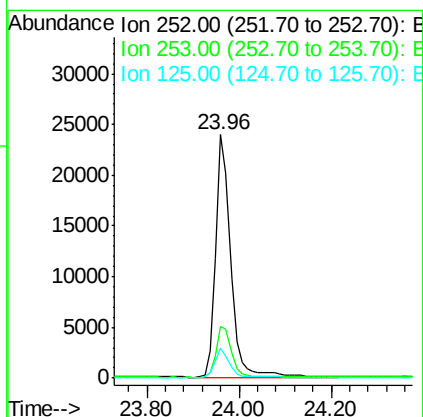
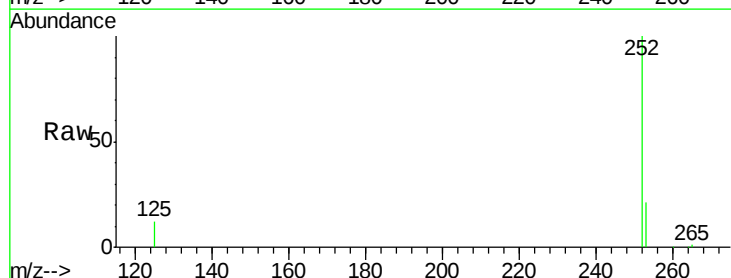
RT: 23.96 min Scan# 1532

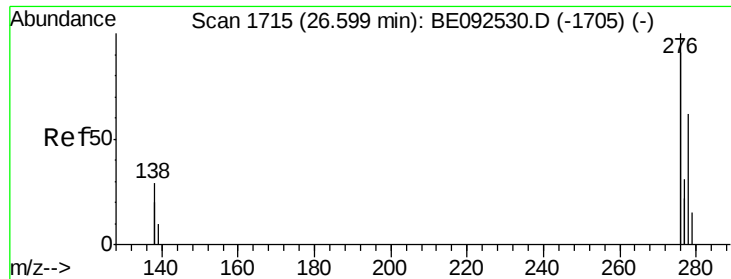
Delta R.T. -0.01 min

Lab File: BE092574.D

Acq: 23 Nov 2016 11:40

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 53930 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 21.3  | 19.0  | 28.6  |
| 125       | 12.1  | 11.8  | 17.8  |





#35

Dibenzo(a,h)anthracene

Concen: 4.69 ng

RT: 26.56 min Scan# 1713

Delta R.T. -0.03 min

Lab File: BE092574.D

Acq: 23 Nov 2016 11:40

Instrument :

BNA\_E

ClientSampleId :

PB94794BSD

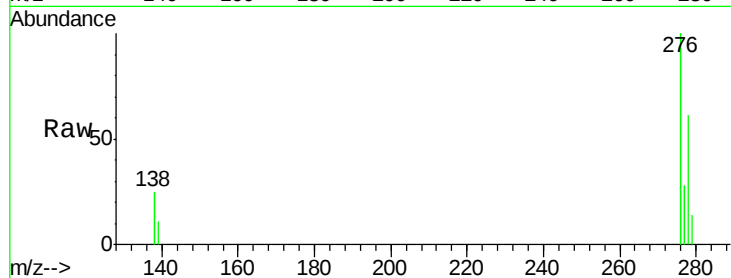
Tgt Ion: 278 Resp: 58205

Ion Ratio Lower Upper

278 100

139 17.6 13.8 20.8

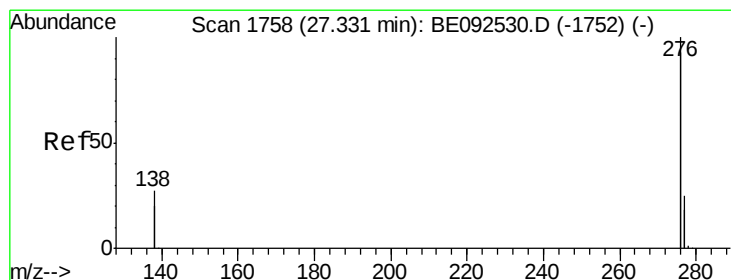
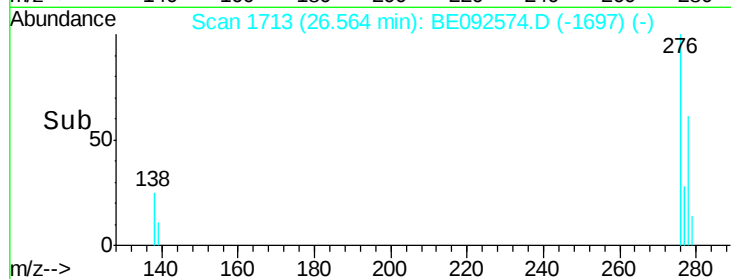
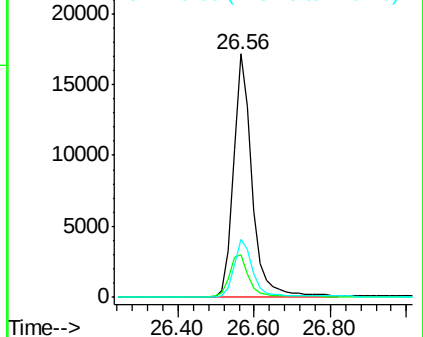
279 23.7 21.4 32.2



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



#36

Benzo(g,h,i)perylene

Concen: 4.62 ng

RT: 27.31 min Scan# 1757

Delta R.T. -0.02 min

Lab File: BE092574.D

Acq: 23 Nov 2016 11:40

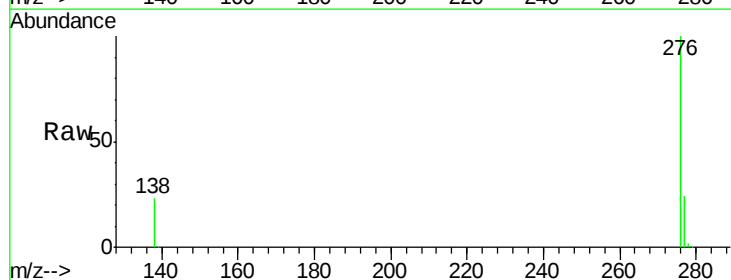
Tgt Ion: 276 Resp: 242784

Ion Ratio Lower Upper

276 100

277 24.3 19.8 29.8

138 23.3 19.8 29.6



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

