

Data Path : Z:\HPCHEM1\BNA E\DATA\BE042716\  
 Data File : BE091726.D  
 Acq On : 27 Apr 2016 15:03  
 Operator : UM/SJ  
 Sample : H2661-01MS  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 CEDAR-HILL-TF-PS-001MS

Quant Time: Apr 28 03:12:30 2016  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE042616.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Apr 26 16:09:46 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.80  | 152  | 39535    | 5.00 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.57 | 136  | 184550   | 5.00 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.41 | 164  | 111494   | 5.00 | ng    | -0.01    |
| 19) Phenanthrene-d10      | 17.15 | 188  | 310535   | 5.00 | ng    | 0.00     |
| 26) Chrysene-d12          | 21.31 | 240  | 301574   | 5.00 | ng    | 0.00     |
| 35) Perylene-d12          | 23.75 | 264  | 316600   | 5.00 | ng    | 0.00     |

|                             |       |     |        |      |    |      |
|-----------------------------|-------|-----|--------|------|----|------|
| System Monitoring Compounds |       |     |        |      |    |      |
| 4) 2-Fluorophenol           | 5.39  | 112 | 61886  | 6.37 | ng | 0.00 |
| 5) Phenol-d6                | 6.95  | 99  | 93261  | 7.24 | ng | 0.00 |
| 8) Nitrobenzene-d5          | 8.95  | 82  | 42364  | 3.56 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol    | 15.90 | 330 | 29913  | 7.22 | ng | 0.00 |
| 15) 2-Fluorobiphenyl        | 13.03 | 172 | 116464 | 3.69 | ng | 0.00 |
| 29) Terphenyl-d14           | 19.76 | 244 | 198662 | 4.22 | ng | 0.00 |

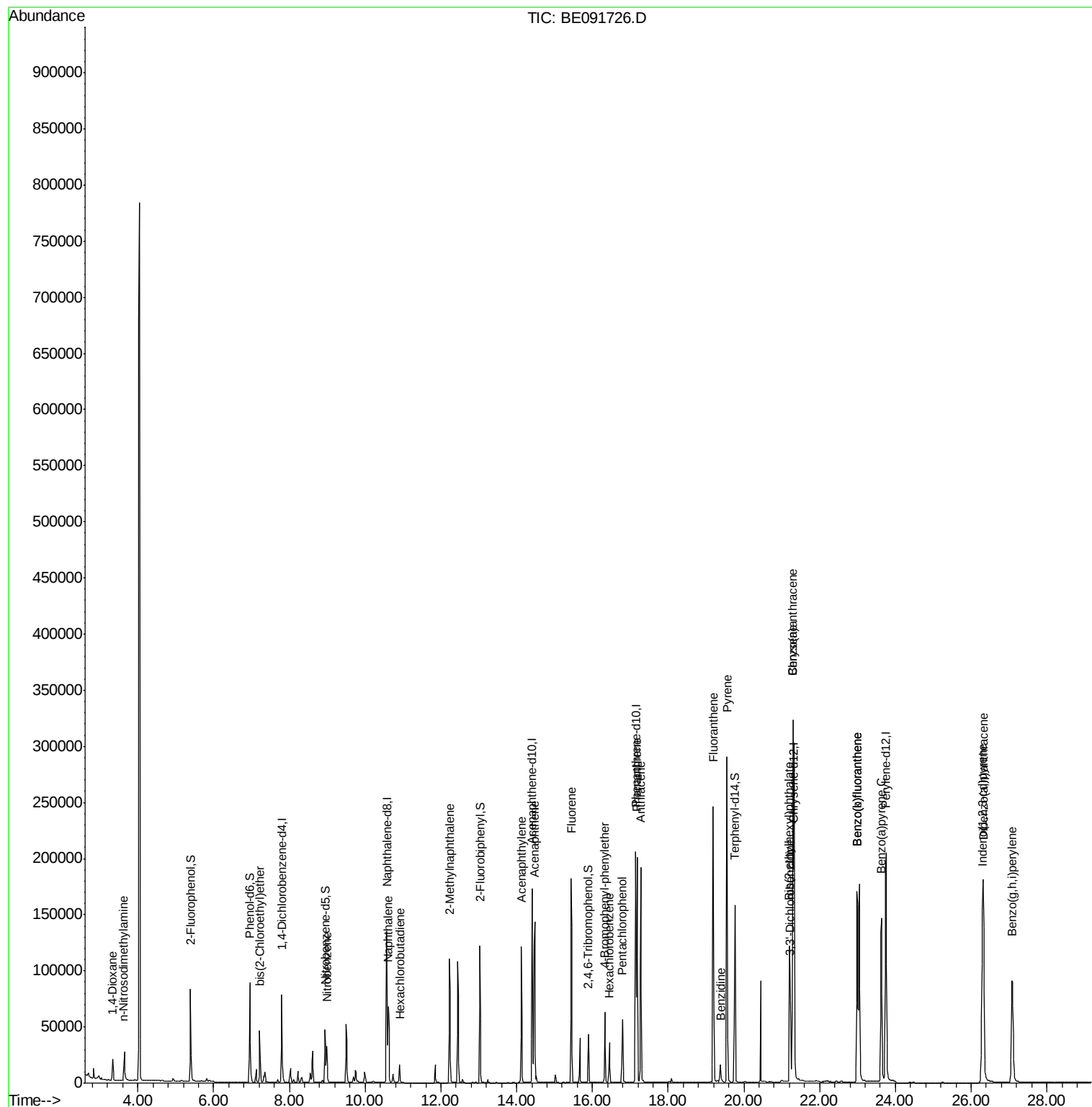
|                                |       |     |        |      |    |        |
|--------------------------------|-------|-----|--------|------|----|--------|
| Target Compounds               |       |     |        |      |    | Qvalue |
| 2) 1,4-Dioxane                 | 3.33  | 88  | 11990  | 2.56 | ng | # 88   |
| 3) n-Nitrosodimethylamine      | 3.63  | 42  | 21417  | 2.98 | ng | 92     |
| 6) bis(2-Chloroethyl)ether     | 7.21  | 93  | 34191  | 3.02 | ng | # 75   |
| 9) Nitrobenzene                | 8.99  | 77  | 38991  | 3.13 | ng | 93     |
| 10) Naphthalene                | 10.61 | 128 | 114464 | 3.07 | ng | 97     |
| 11) Hexachlorobutadiene        | 10.92 | 225 | 17933  | 3.26 | ng | 97     |
| 12) 2-Methylnaphthalene        | 12.23 | 142 | 82873  | 3.46 | ng | 97     |
| 16) Acenaphthylene             | 14.12 | 152 | 149839 | 3.49 | ng | # 86   |
| 17) Acenaphthene               | 14.47 | 154 | 95309  | 3.43 | ng | 98     |
| 18) Fluorene                   | 15.45 | 166 | 118775 | 3.44 | ng | 98     |
| 20) 4-Bromophenyl-phenylether  | 16.33 | 248 | 33700  | 3.02 | ng | 96     |
| 21) Hexachlorobenzene          | 16.45 | 284 | 32597  | 2.92 | ng | 96     |
| 22) Pentachlorophenol          | 16.79 | 266 | 36780  | 6.11 | ng | 89     |
| 23) Phenanthrene               | 17.18 | 178 | 211650 | 3.00 | ng | 99     |
| 24) Anthracene                 | 17.27 | 178 | 205571 | 3.23 | ng | 99     |
| 25) Fluoranthene               | 19.19 | 202 | 253223 | 3.43 | ng | # 97   |
| 27) Benzidine                  | 19.38 | 184 | 24237  | 1.15 | ng | # 78   |
| 28) Pyrene                     | 19.55 | 202 | 279109 | 4.10 | ng | 99     |
| 30) Benzo(a)anthracene         | 21.29 | 228 | 254039 | 3.45 | ng | # 91   |
| 31) 3,3'-Dichlorobenzidine     | 21.22 | 252 | 53461  | 1.42 | ng | # 84   |
| 32) Chrysene                   | 21.29 | 228 | 253988 | 3.32 | ng | # 88   |
| 33) Bis(2-ethylhexyl)phthalate | 21.20 | 149 | 156180 | 7.00 | ng | # 86   |
| 34) Indeno(1,2,3-cd)pyrene     | 26.29 | 276 | 267397 | 3.92 | ng | 96     |
| 36) Benzo(b)fluoranthene       | 22.99 | 252 | 283686 | 3.82 | ng | 97     |
| 37) Benzo(k)fluoranthene       | 22.99 | 252 | 283686 | 3.76 | ng | 97     |
| 38) Benzo(a)pyrene             | 23.63 | 252 | 245244 | 3.51 | ng | # 96   |
| 39) Dibenzo(a,h)anthracene     | 26.32 | 278 | 222011 | 3.35 | ng | 96     |
| 40) Benzo(g,h,i)perylene       | 27.08 | 276 | 224432 | 3.34 | ng | 96     |

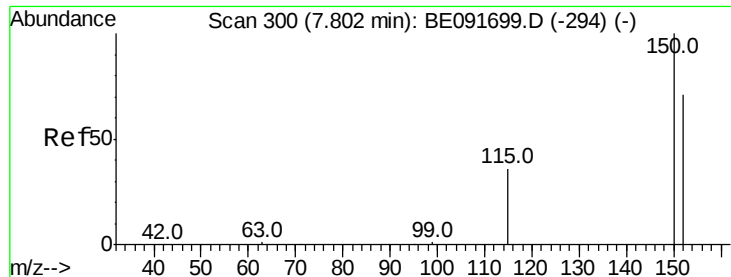
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Apr 26 16:09:46 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.80 min Scan# 300

Delta R.T. -0.00 min

Lab File: BE091726.D

Acq: 27 Apr 2016 15:03

Instrument :

BNA\_E

ClientSampleId :

CEDAR-HILL-TF-PS-001MS

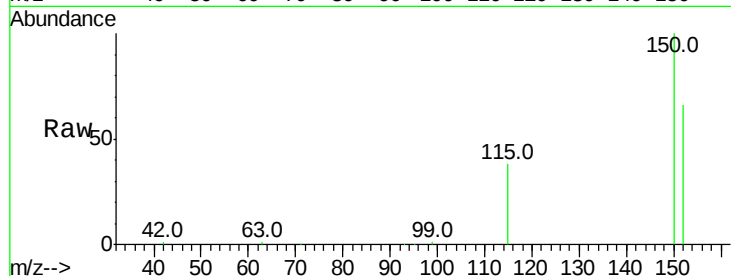
Tot Ion:152 Resp: 39535

Ion Ratio Lower Upper

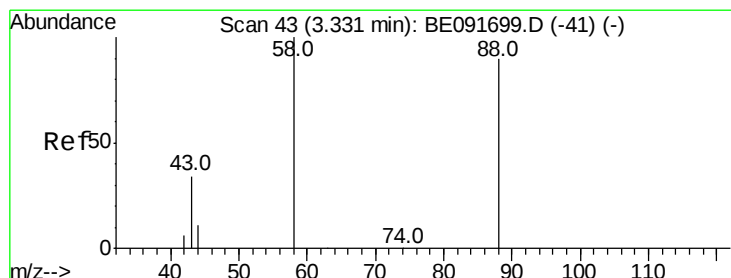
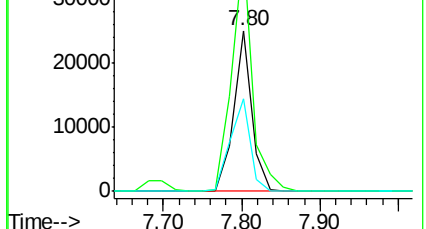
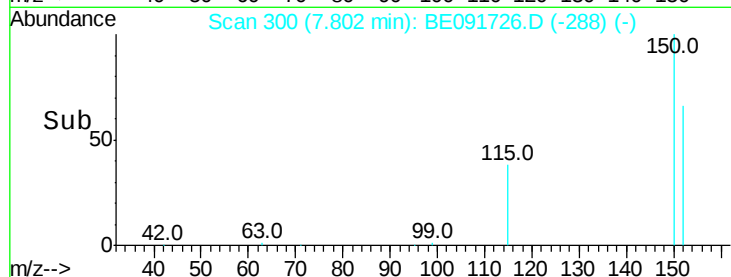
152 100

150 151.8 122.6 183.8

115 57.7 52.8 79.2



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: 2.56 ng

RT: 3.33 min Scan# 43

Delta R.T. 0.00 min

Lab File: BE091726.D

Acq: 27 Apr 2016 15:03

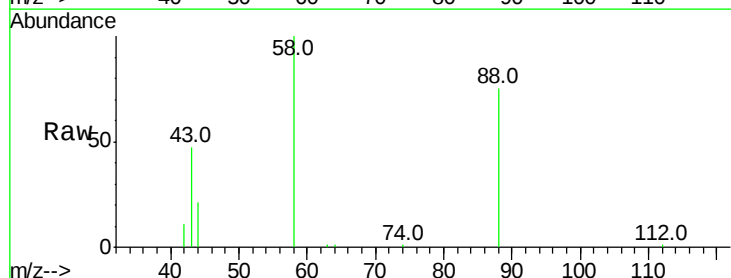
Tgt Ion: 88 Resp: 11990

Ion Ratio Lower Upper

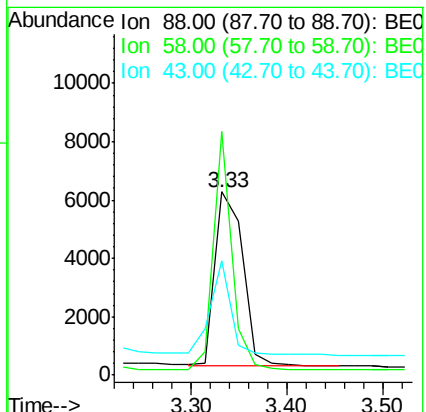
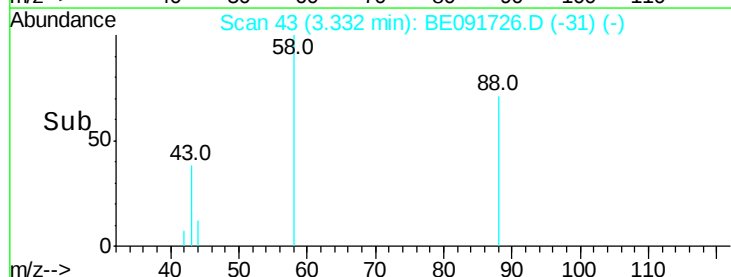
88 100

58 90.3 65.8 98.6

43 42.6 25.3 37.9#



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: 2.98 ng

RT: 3.63 min Scan# 60

Delta R.T. 0.00 min

Lab File: BE091726.D

Acq: 27 Apr 2016 15:03

Instrument :

BNA\_E

ClientSampleId :

CEDAR-HILL-TF-PS-001MS

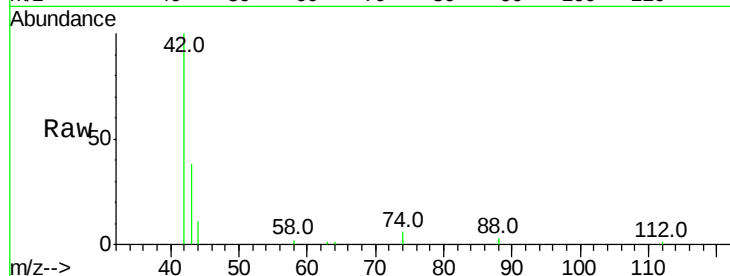
Tot Ion: 42 Resp: 21417

Ion Ratio Lower Upper

42 100

74 101.0 87.9 131.9

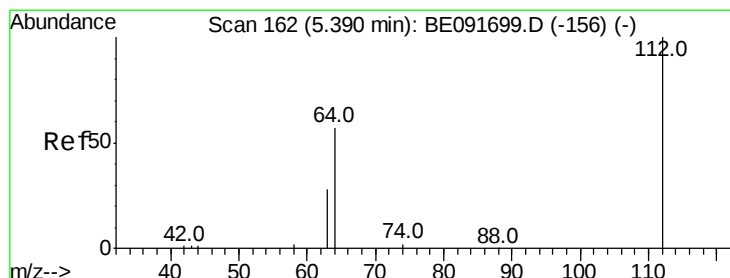
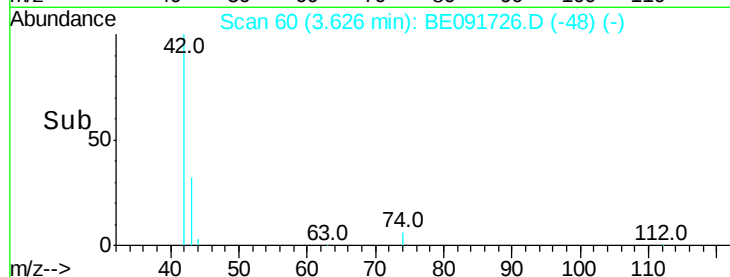
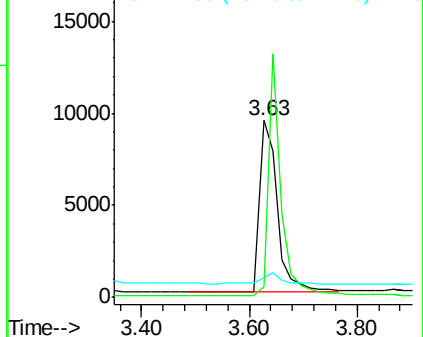
44 6.7 6.6 9.8



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: 6.37 ng

RT: 5.39 min Scan# 162

Delta R.T. 0.00 min

Lab File: BE091726.D

Acq: 27 Apr 2016 15:03

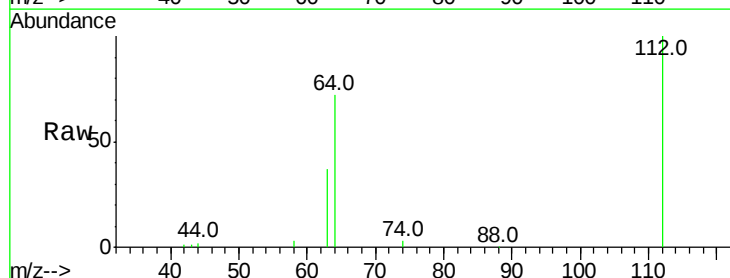
Tgt Ion: 112 Resp: 61886

Ion Ratio Lower Upper

112 100

64 68.0 30.9 46.3#

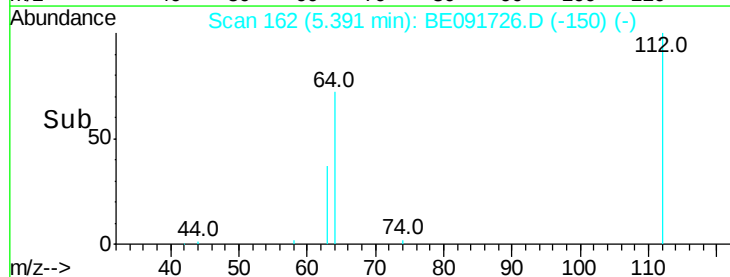
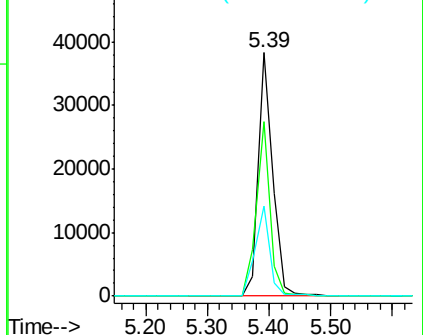
63 37.0 16.7 25.1#



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: 7.24 ng

RT: 6.95 min Scan# 251

Delta R.T. -0.00 min

Lab File: BE091726.D

Acq: 27 Apr 2016 15:03

Instrument :

BNA\_E

ClientSampleId :

CEDAR-HILL-TF-PS-001MS

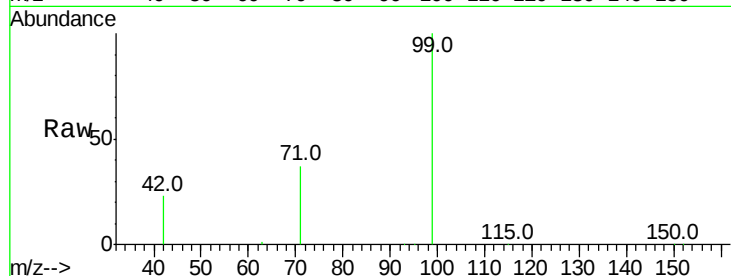
Tot Ion: 99 Resp: 93261

Ion Ratio Lower Upper

99 100

42 25.6 16.2 24.2#

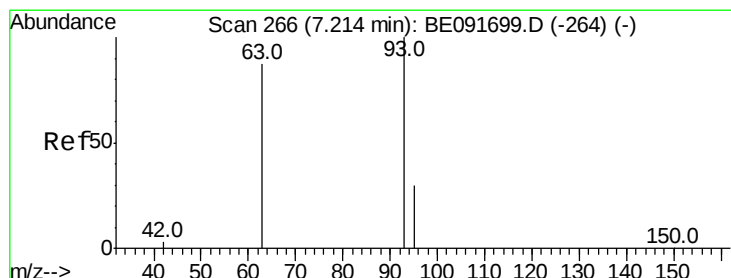
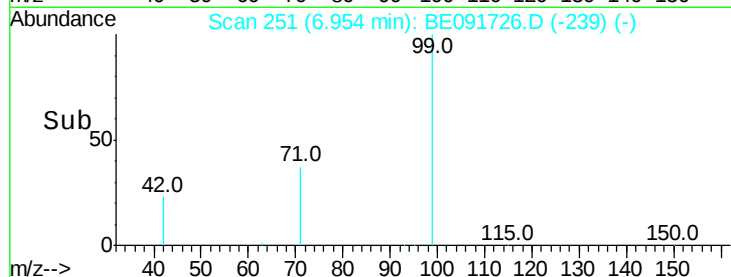
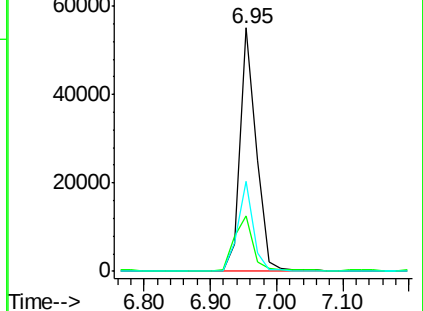
71 35.5 29.0 43.4



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



#6

bis(2-Chloroethyl)ether

Concen: 3.02 ng

RT: 7.21 min Scan# 266

Delta R.T. -0.00 min

Lab File: BE091726.D

Acq: 27 Apr 2016 15:03

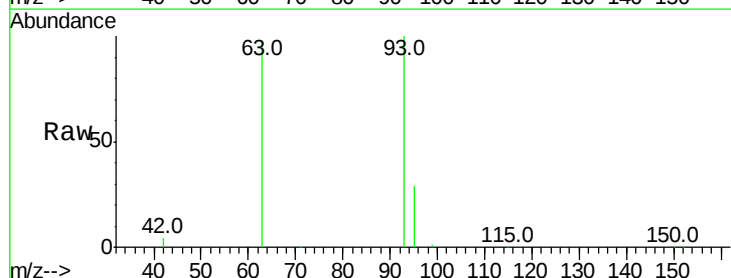
Tgt Ion: 93 Resp: 34191

Ion Ratio Lower Upper

93 100

63 86.9 49.5 74.3#

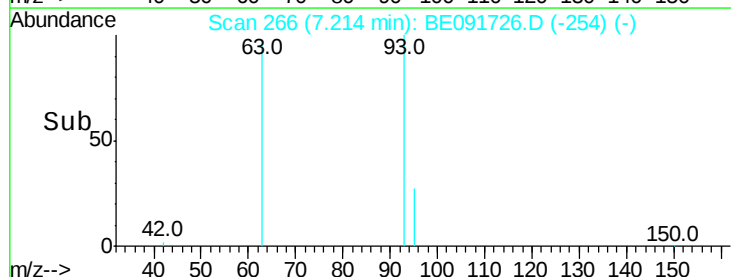
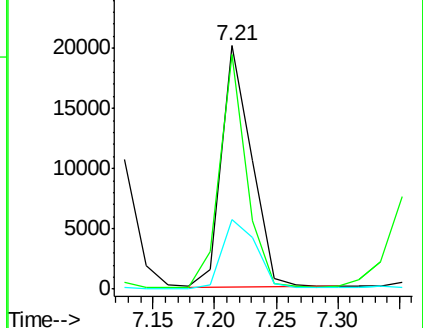
95 32.4 22.2 33.4

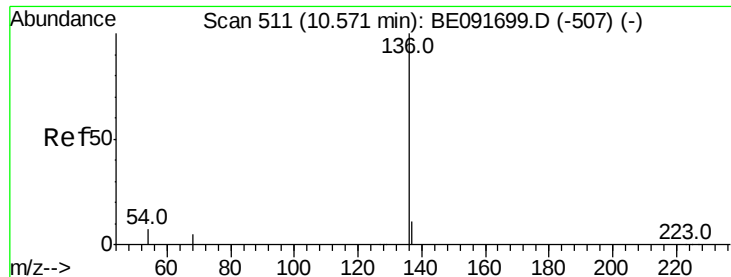


Abundance Ion 93.00 (92.70 to 93.70): BE0

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: 10.57 min Scan# 511

Delta R.T. -0.00 min

Lab File: BE091726.D

Acq: 27 Apr 2016 15:03

Instrument :

BNA\_E

ClientSampleId :

CEDAR-HILL-TF-PS-001MS

Tot Ion:136 Resp: 184550

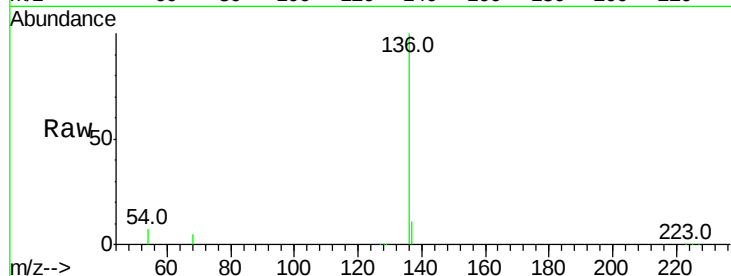
Ion Ratio Lower Upper

136 100

137 10.7 8.9 13.3

54 6.9 8.2 12.4#

68 5.1 6.2 9.4#

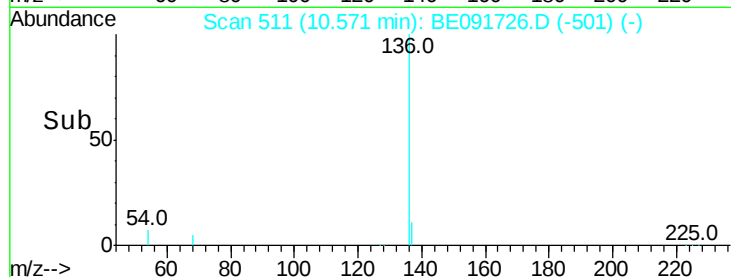


Abundance Ion 136.00 (135.70 to 136.70): E

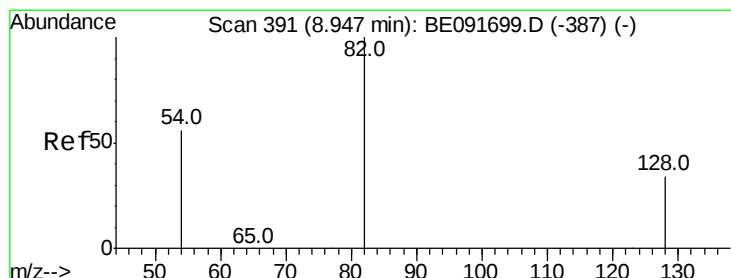
Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



Time--> 10.40 10.50 10.60 10.70



#8

Nitrobenzene-d5

Concen: 3.56 ng

RT: 8.95 min Scan# 391

Delta R.T. -0.00 min

Lab File: BE091726.D

Acq: 27 Apr 2016 15:03

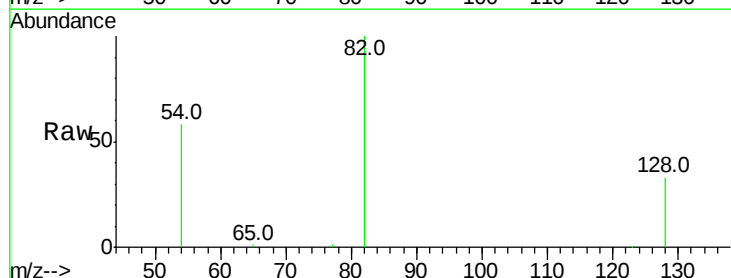
Tgt Ion: 82 Resp: 42364

Ion Ratio Lower Upper

82 100

128 32.6 25.4 38.0

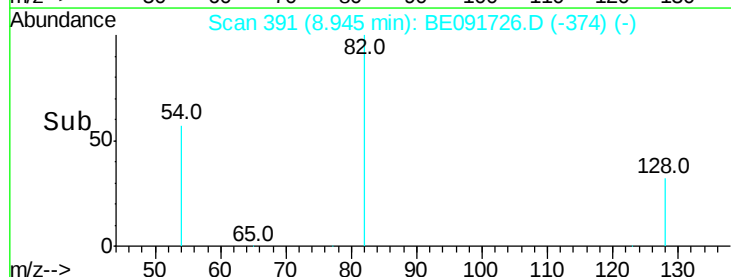
54 57.7 48.4 72.6



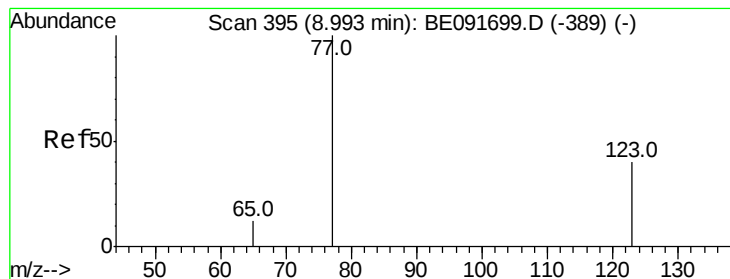
Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0



Time--> 8.90 9.00 9.10



#9

Nitrobenzene

Concen: 3.13 ng

RT: 8.99 min Scan# 395

Delta R.T. -0.00 min

Lab File: BE091726.D

Acq: 27 Apr 2016 15:03

Instrument :

BNA\_E

ClientSampleId :

CEDAR-HILL-TF-PS-001MS

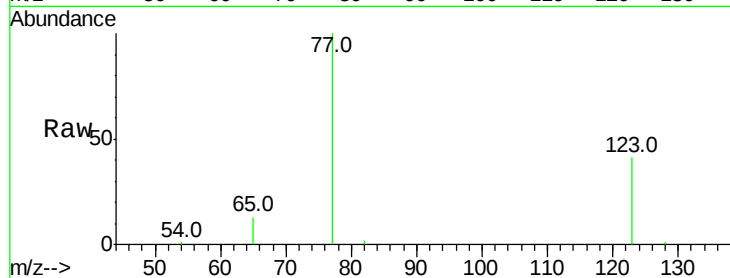
Tot Ion: 77 Resp: 38991

Ion Ratio Lower Upper

77 100

123 37.8 26.9 40.3

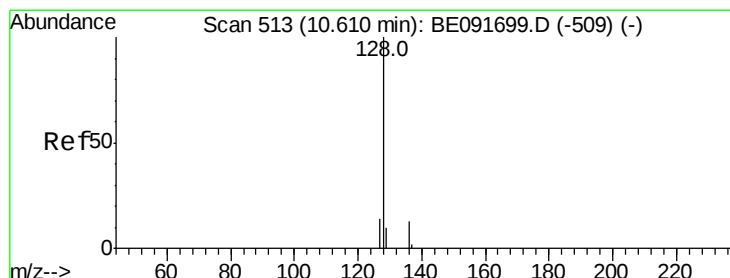
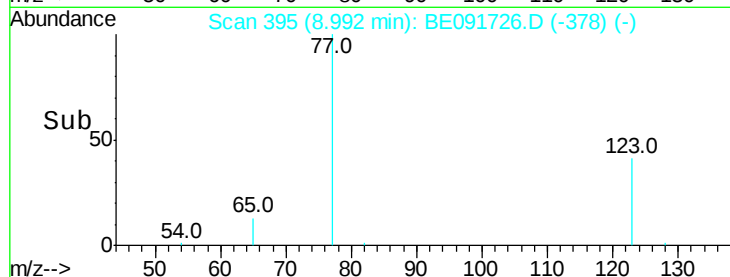
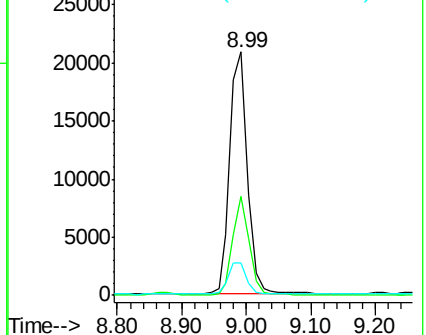
65 14.1 9.4 14.2



Abundance Ion 77.00 (76.70 to 77.70): BE091699.D (-389) (-)

Ion 123.00 (122.70 to 123.70): BE091699.D (-389) (-)

Ion 65.00 (64.70 to 65.70): BE091699.D (-389) (-)



#10

Naphthalene

Concen: 3.07 ng

RT: 10.61 min Scan# 513

Delta R.T. -0.00 min

Lab File: BE091726.D

Acq: 27 Apr 2016 15:03

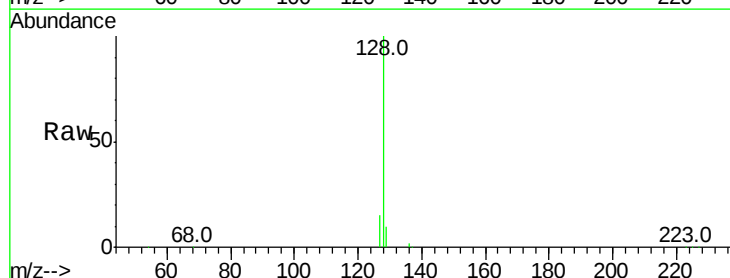
Tgt Ion: 128 Resp: 114464

Ion Ratio Lower Upper

128 100

129 10.2 9.3 13.9

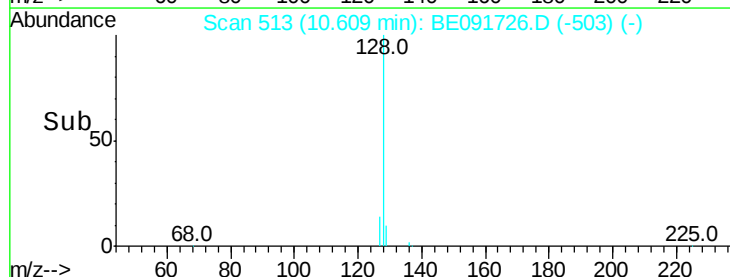
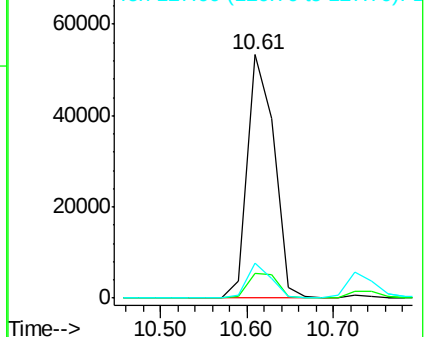
127 14.5 10.7 16.1

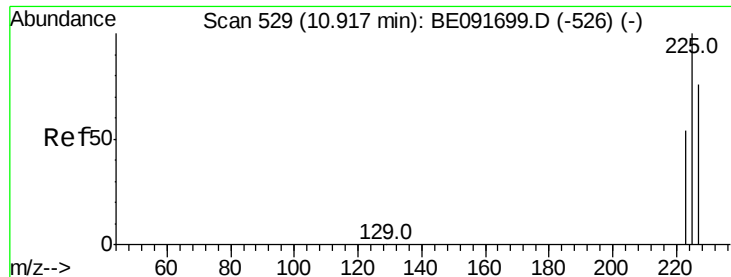


Abundance Ion 128.00 (127.70 to 128.70): BE091699.D (-509) (-)

Ion 129.00 (128.70 to 129.70): BE091699.D (-509) (-)

Ion 127.00 (126.70 to 127.70): BE091699.D (-509) (-)

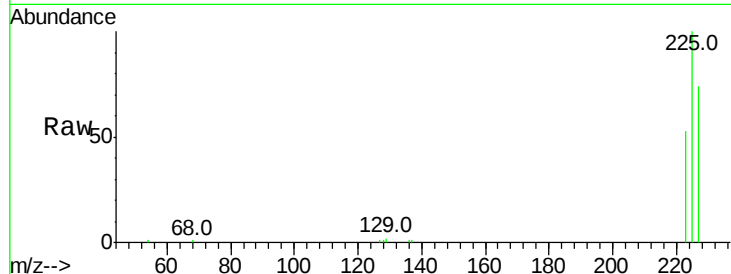




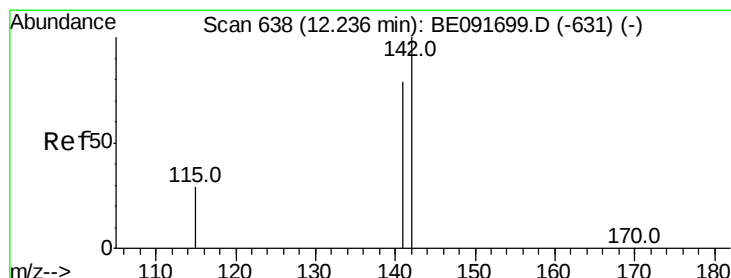
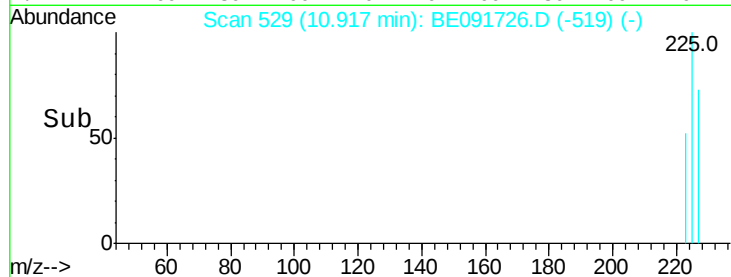
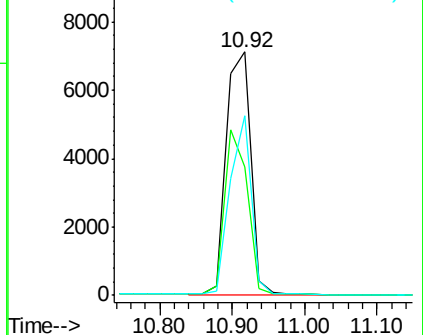
#11  
Hexachlorobutadiene  
Concen: 3.26 ng  
RT: 10.92 min Scan# 529  
Delta R.T. -0.00 min  
Lab File: BE091726.D  
Acq: 27 Apr 2016 15:03

Instrument :  
BNA\_E  
ClientSampleId :  
CEDAR-HILL-TF-PS-001MS

Tot Ion:225 Resp: 17933  
Ion Ratio Lower Upper  
225 100  
223 64.0 49.0 73.6  
227 64.8 50.3 75.5

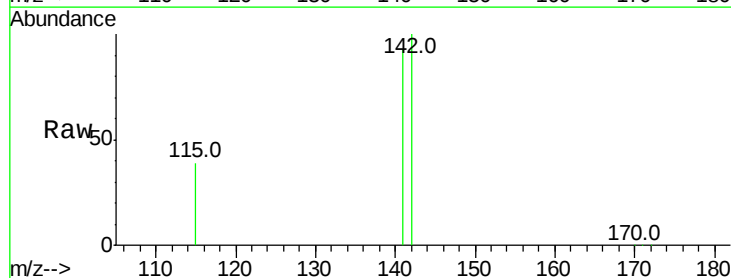


Abundance Ion 225.00 (224.70 to 225.70): E  
Ion 223.00 (222.70 to 223.70): E  
Ion 227.00 (226.70 to 227.70): E

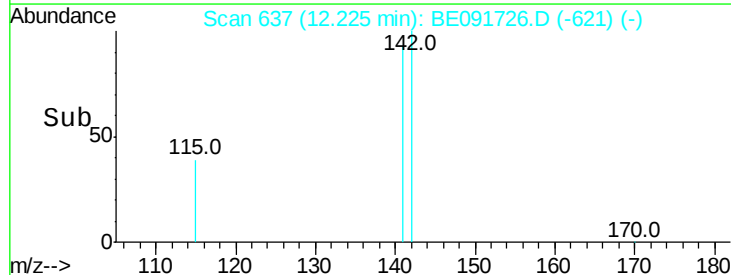
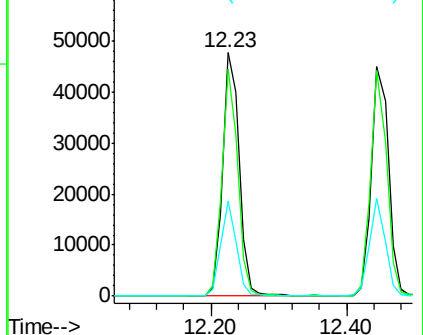


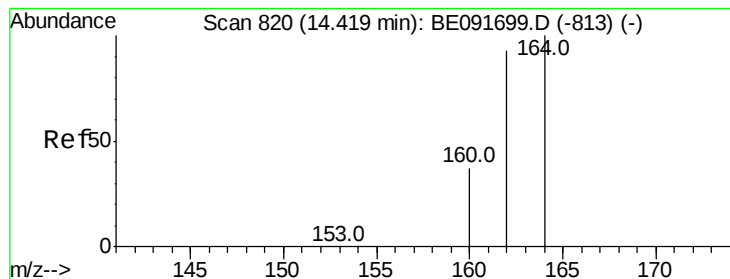
#12  
2-Methylnaphthalene  
Concen: 3.46 ng  
RT: 12.23 min Scan# 637  
Delta R.T. -0.01 min  
Lab File: BE091726.D  
Acq: 27 Apr 2016 15:03

Tgt Ion:142 Resp: 82873  
Ion Ratio Lower Upper  
142 100  
141 93.2 71.4 107.0  
115 39.0 30.3 45.5



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





#13

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.41 min Scan# 819

Delta R.T. -0.01 min

Lab File: BE091726.D

Acq: 27 Apr 2016 15:03

Instrument :

BNA\_E

ClientSampleId :

CEDAR-HILL-TF-PS-001MS

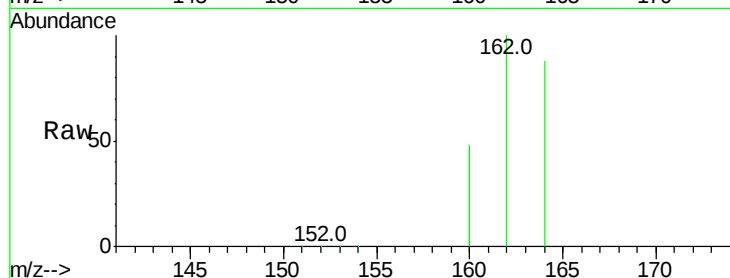
Tot Ion:164 Resp: 111494

Ion Ratio Lower Upper

164 100

162 113.1 85.3 127.9

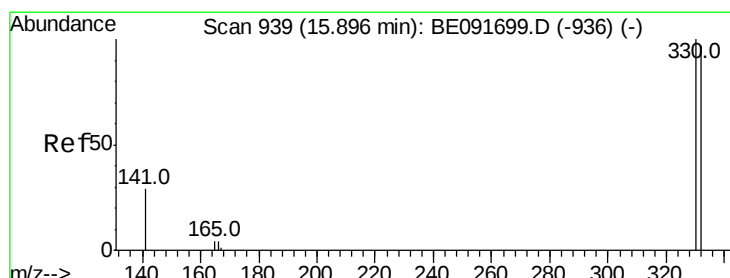
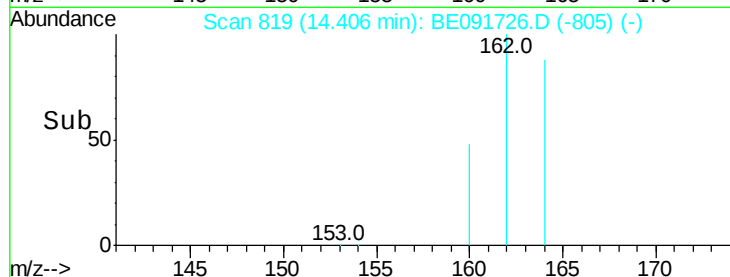
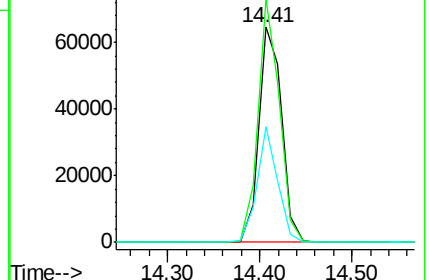
160 54.0 46.2 69.2



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



#14

2,4,6-Tribromophenol

Concen: 7.22 ng

RT: 15.90 min Scan# 939

Delta R.T. 0.00 min

Lab File: BE091726.D

Acq: 27 Apr 2016 15:03

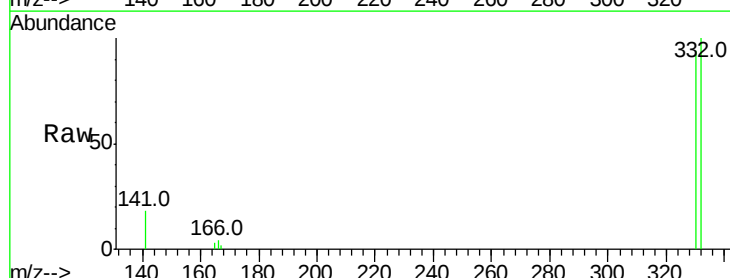
Tgt Ion:330 Resp: 29913

Ion Ratio Lower Upper

330 100

332 96.8 79.1 118.7

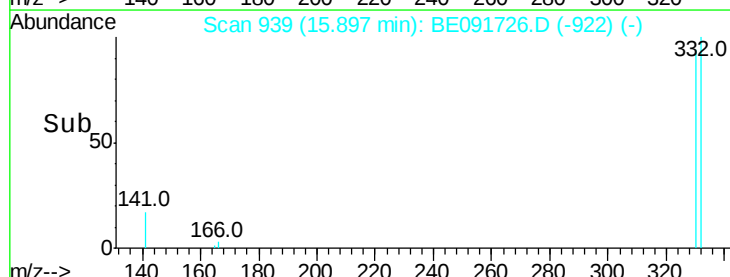
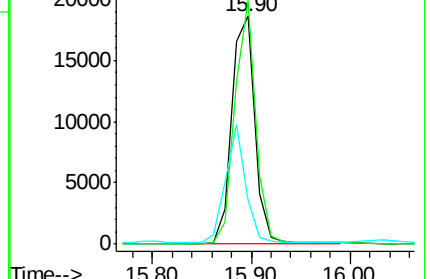
141 45.0 125.4 188.0#



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

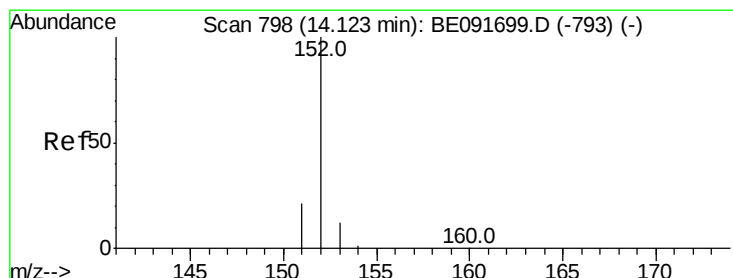
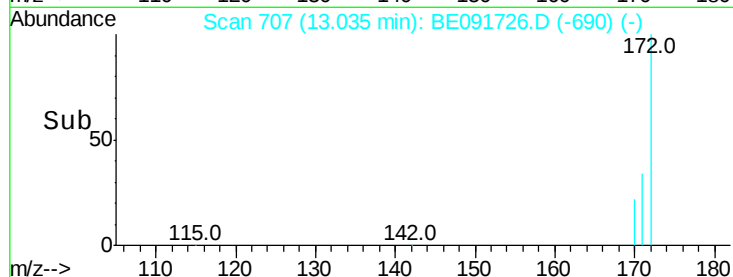
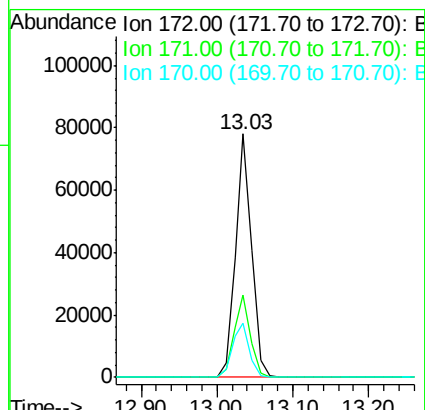
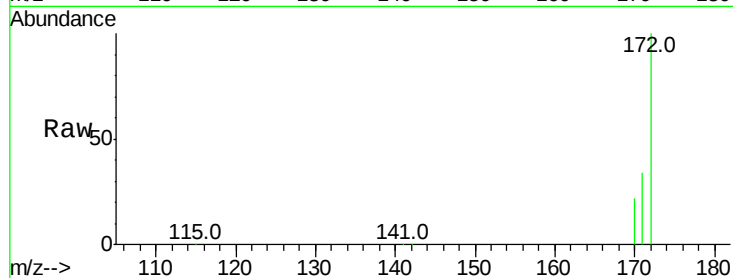




#15  
2-Fluorobiphenyl  
Concen: 3.69 ng  
RT: 13.03 min Scan# 707  
Delta R.T. 0.00 min  
Lab File: BE091726.D  
Acq: 27 Apr 2016 15:03

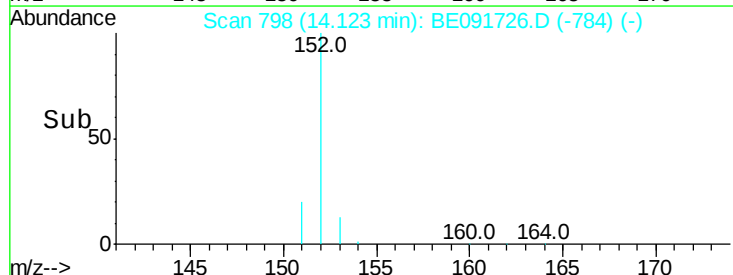
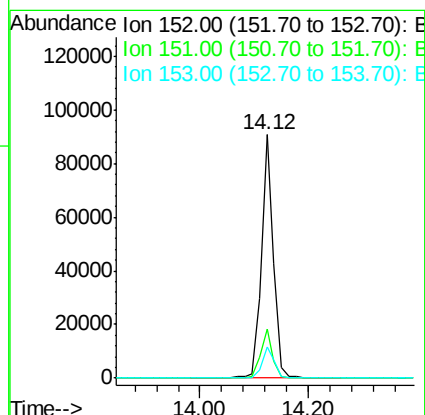
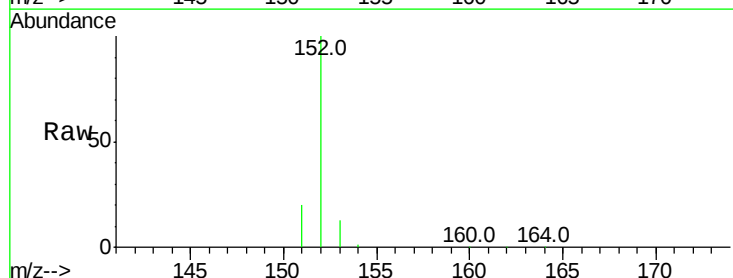
Instrument :  
BNA\_E  
ClientSampleId :  
CEDAR-HILL-TF-PS-001MS

Tot Ion:172 Resp: 116464  
Ion Ratio Lower Upper  
172 100  
171 34.0 28.8 43.2  
170 22.0 19.3 28.9



#16  
Acenaphthylene  
Concen: 3.49 ng  
RT: 14.12 min Scan# 798  
Delta R.T. 0.00 min  
Lab File: BE091726.D  
Acq: 27 Apr 2016 15:03

Tgt Ion:152 Resp: 149839  
Ion Ratio Lower Upper  
152 100  
151 20.2 3.9 5.9#  
153 13.6 10.3 15.5

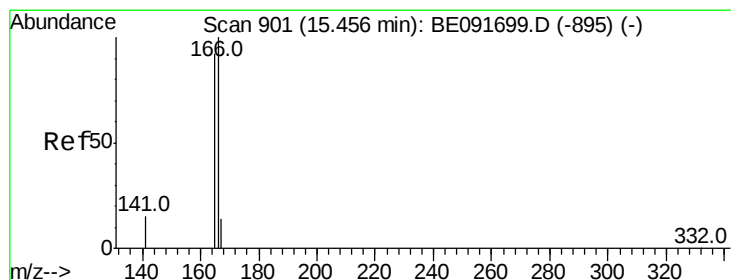
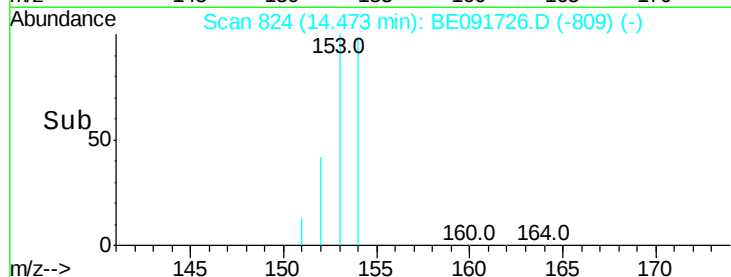
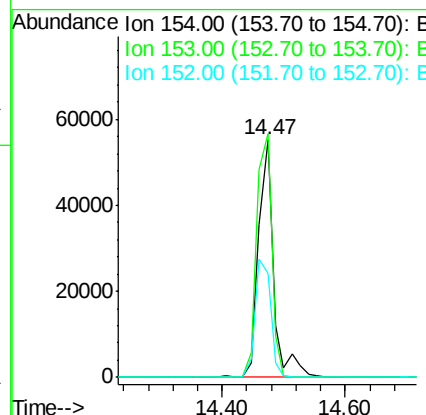
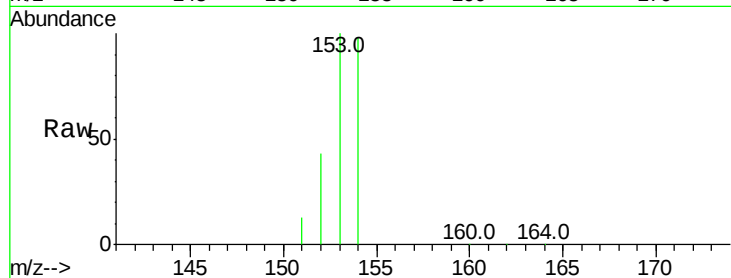




#17  
Acenaphthene  
Concen: 3.43 ng  
RT: 14.47 min Scan# 824  
Delta R.T. 0.00 min  
Lab File: BE091726.D  
Acq: 27 Apr 2016 15:03

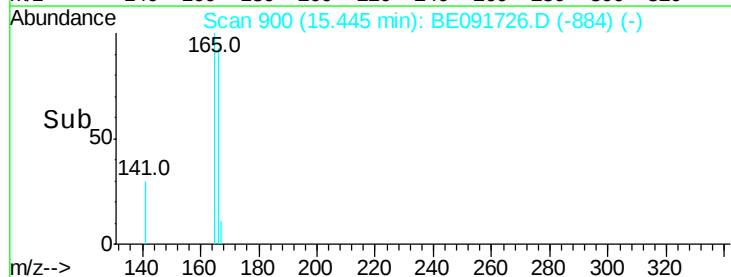
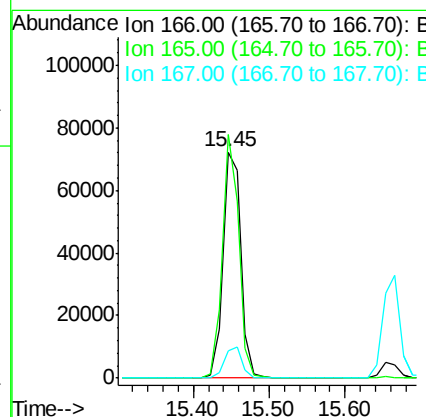
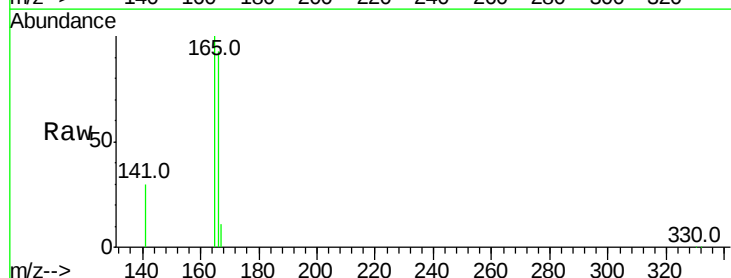
Instrument :  
BNA\_E  
ClientSampleId :  
CEDAR-HILL-TF-PS-001MS

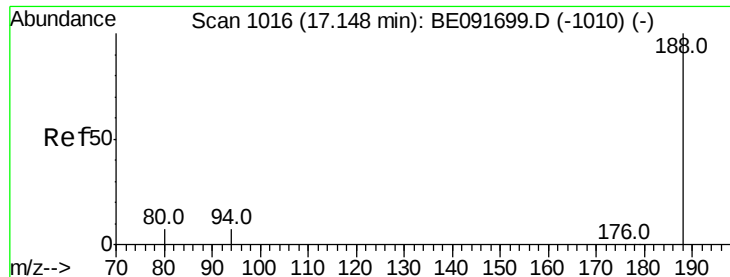
Tot Ion:154 Resp: 95309  
Ion Ratio Lower Upper  
154 100  
153 102.8 80.0 120.0  
152 50.7 40.0 60.0



#18  
Fluorene  
Concen: 3.44 ng  
RT: 15.45 min Scan# 900  
Delta R.T. -0.01 min  
Lab File: BE091726.D  
Acq: 27 Apr 2016 15:03

Tgt Ion:166 Resp: 118775  
Ion Ratio Lower Upper  
166 100  
165 98.9 80.8 121.2  
167 13.4 10.9 16.3





#19

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.15 min Scan# 1015

Delta R.T. -0.00 min

Lab File: BE091726.D

Acq: 27 Apr 2016 15:03

Instrument :

BNA\_E

ClientSampleId :

CEDAR-HILL-TF-PS-001MS

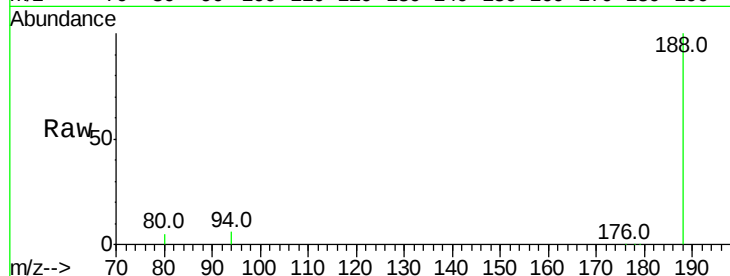
Tot Ion:188 Resp: 310535

Ion Ratio Lower Upper

188 100

94 6.1 8.7 13.1#

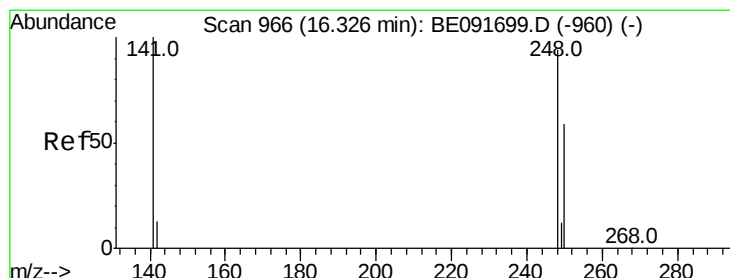
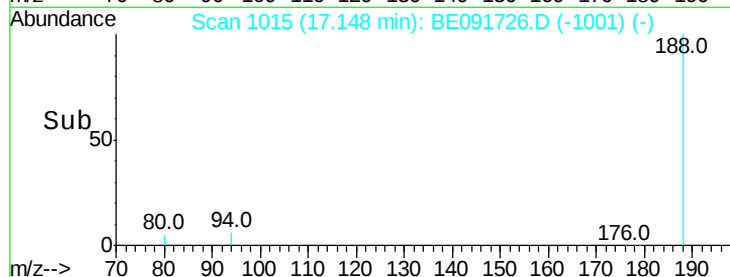
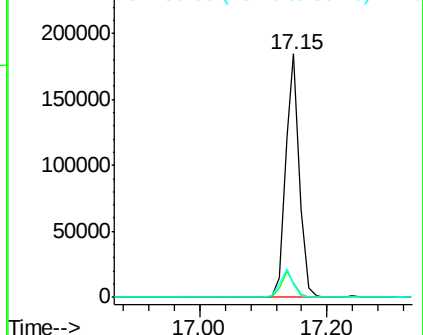
80 5.4 9.4 14.0#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#20

4-Bromophenyl-phenylether

Concen: 3.02 ng

RT: 16.33 min Scan# 965

Delta R.T. -0.00 min

Lab File: BE091726.D

Acq: 27 Apr 2016 15:03

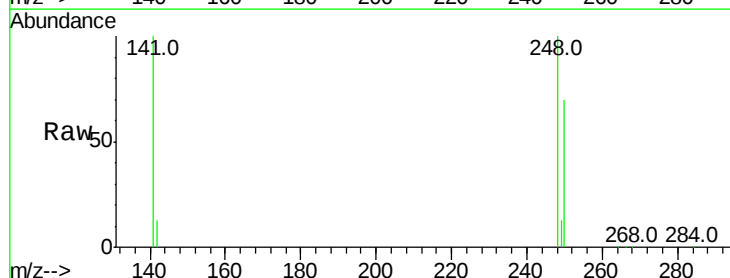
Tgt Ion:248 Resp: 33700

Ion Ratio Lower Upper

248 100

250 97.7 80.5 120.7

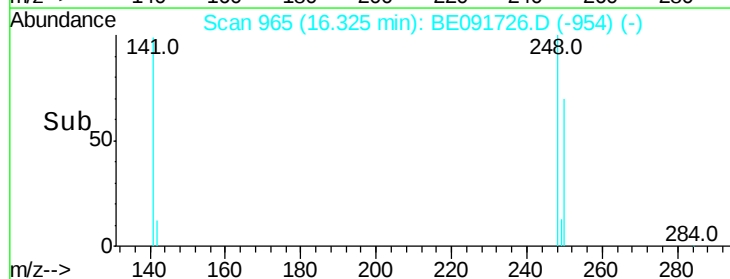
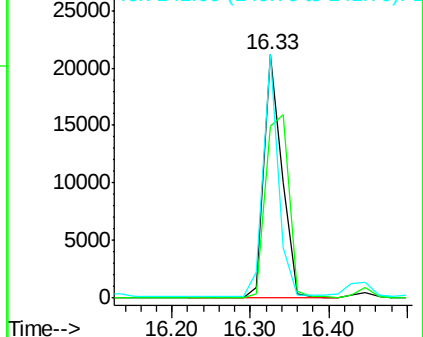
141 85.1 72.0 108.0

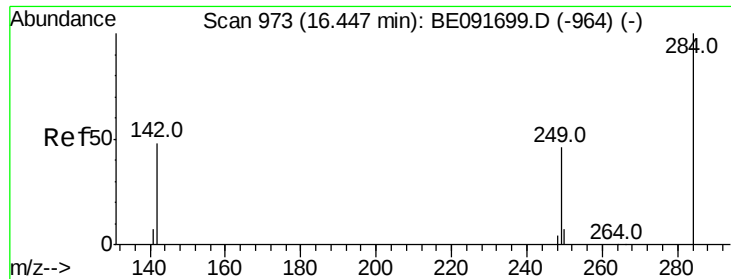


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

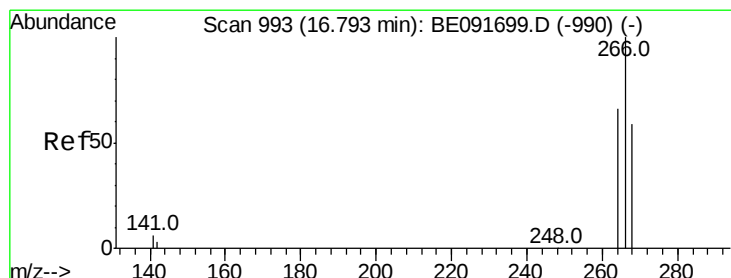
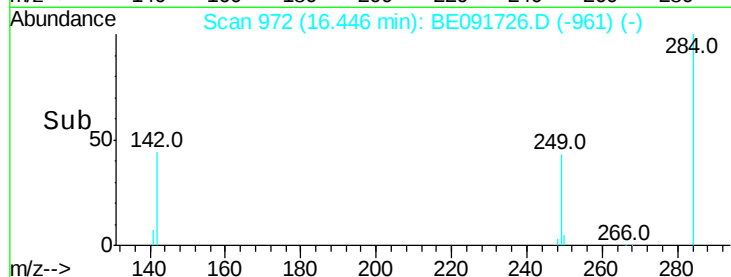
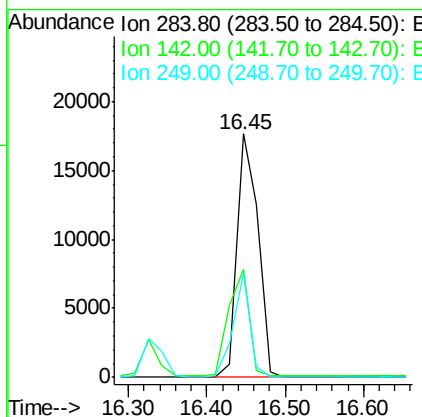
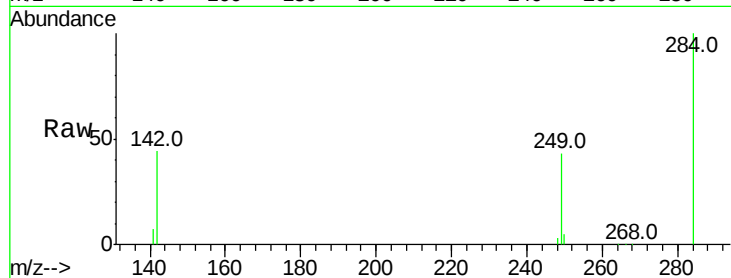




#21  
Hexachlorobenzene  
Concen: 2.92 ng  
RT: 16.45 min Scan# 972  
Delta R.T. -0.00 min  
Lab File: BE091726.D  
Acq: 27 Apr 2016 15:03

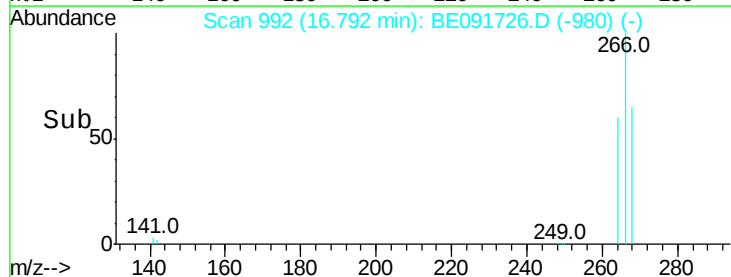
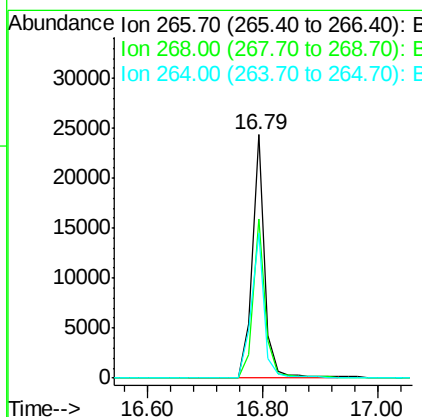
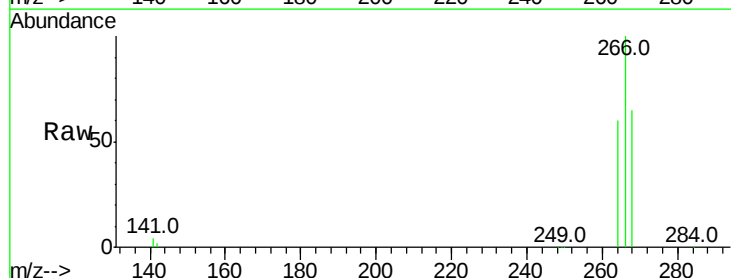
Instrument :  
BNA\_E  
ClientSampleId :  
CEDAR-HILL-TF-PS-001MS

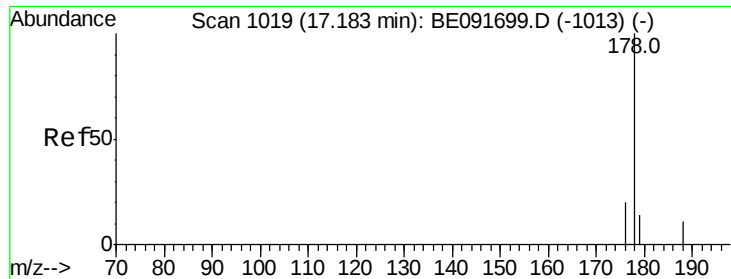
Tot Ion:284 Resp: 32597  
Ion Ratio Lower Upper  
284 100  
142 42.9 32.2 48.2  
249 34.2 25.4 38.2



#22  
Pentachlorophenol  
Concen: 6.11 ng  
RT: 16.79 min Scan# 992  
Delta R.T. -0.00 min  
Lab File: BE091726.D  
Acq: 27 Apr 2016 15:03

Tgt Ion:266 Resp: 36780  
Ion Ratio Lower Upper  
266 100  
268 65.4 58.2 87.2  
264 59.7 56.2 84.4





#23

Phenanthrene

Concen: 3.00 ng

RT: 17.18 min Scan# 1018

Delta R.T. -0.00 min

Lab File: BE091726.D

Acq: 27 Apr 2016 15:03

Instrument :

BNA\_E

ClientSampleId :

CEDAR-HILL-TF-PS-001MS

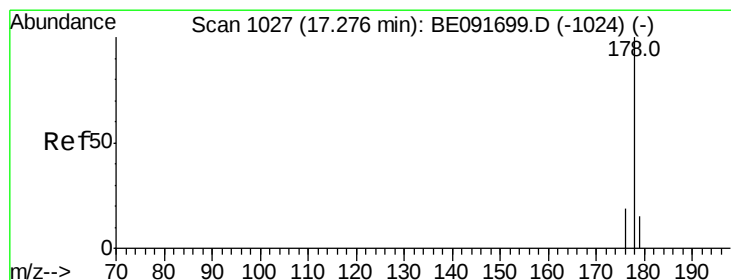
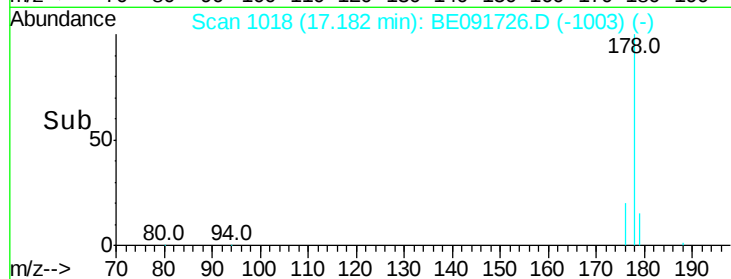
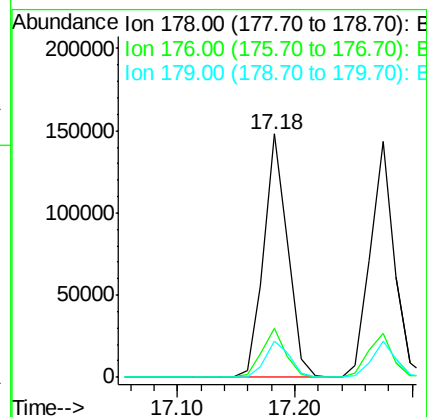
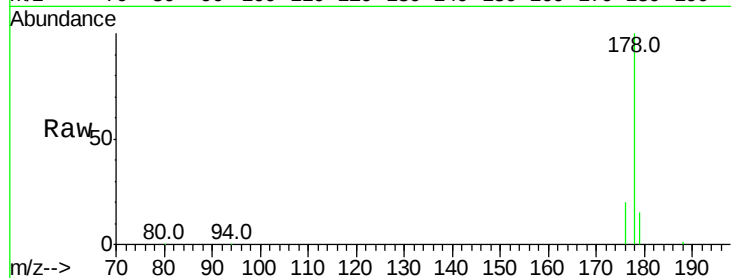
Tot Ion:178 Resp: 211650

Ion Ratio Lower Upper

178 100

176 19.6 15.3 22.9

179 15.5 12.6 18.8



#24

Anthracene

Concen: 3.23 ng

RT: 17.27 min Scan# 1026

Delta R.T. -0.00 min

Lab File: BE091726.D

Acq: 27 Apr 2016 15:03

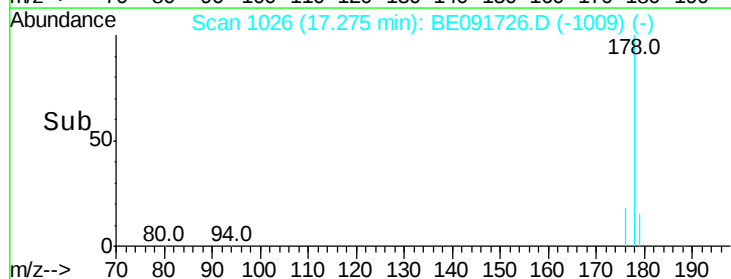
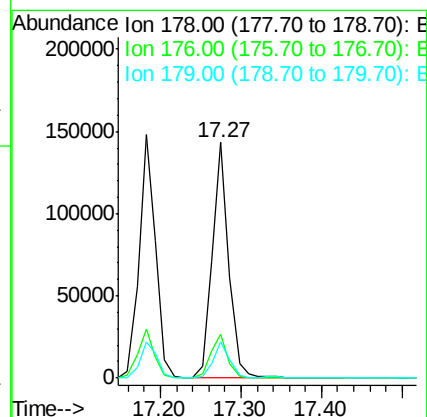
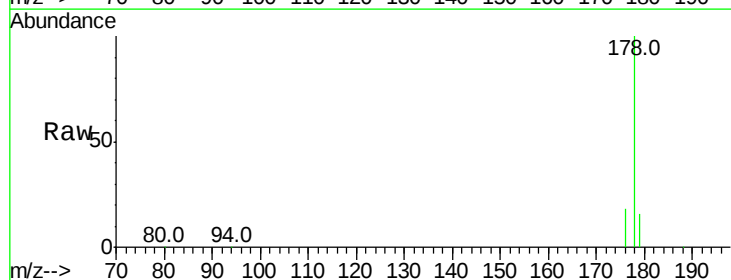
Tgt Ion:178 Resp: 205571

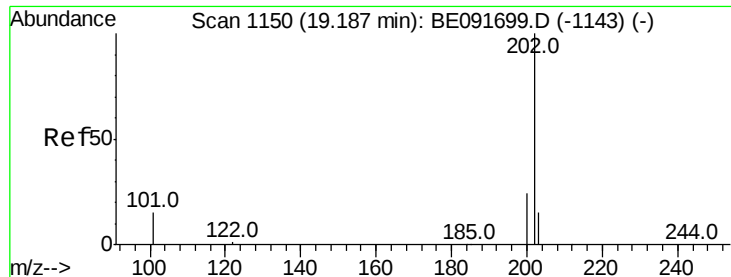
Ion Ratio Lower Upper

178 100

176 18.9 14.6 21.8

179 15.2 11.8 17.6





#25

Fluoranthene

Concen: 3.43 ng

RT: 19.19 min Scan# 1149

Delta R.T. -0.00 min

Lab File: BE091726.D

Acq: 27 Apr 2016 15:03

Instrument :

BNA\_E

ClientSampleId :

CEDAR-HILL-TF-PS-001MS

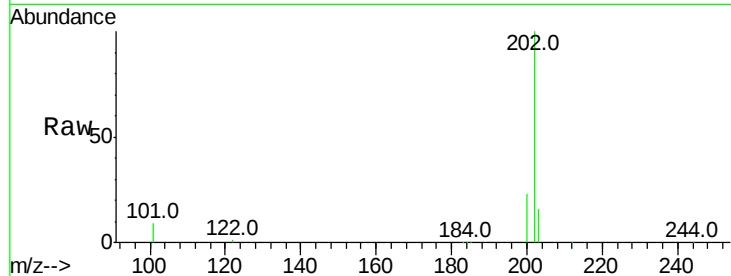
Tot Ion:202 Resp: 253223

Ion Ratio Lower Upper

202 100

101 10.8 11.0 16.6#

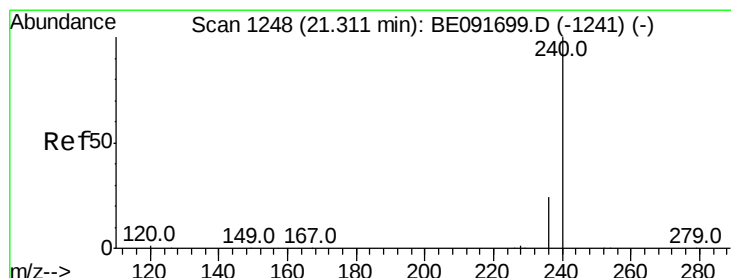
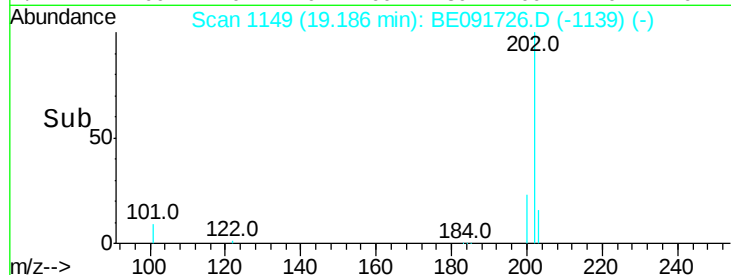
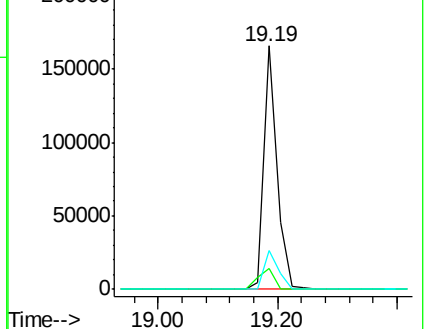
203 17.4 13.9 20.9



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



#26

Chrysene-d12

Concen: 5.00 ng

RT: 21.31 min Scan# 1247

Delta R.T. 0.00 min

Lab File: BE091726.D

Acq: 27 Apr 2016 15:03

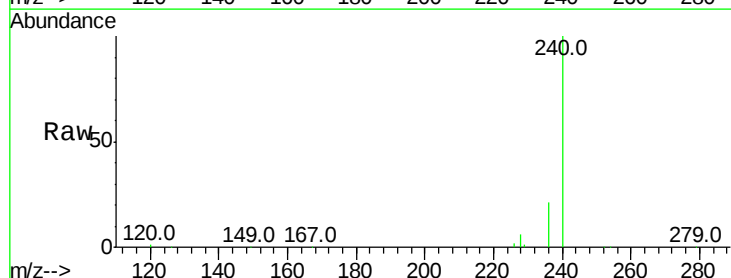
Tgt Ion:240 Resp: 301574

Ion Ratio Lower Upper

240 100

120 0.9 11.0 16.4#

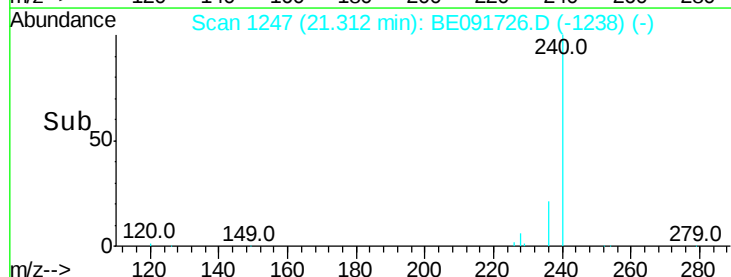
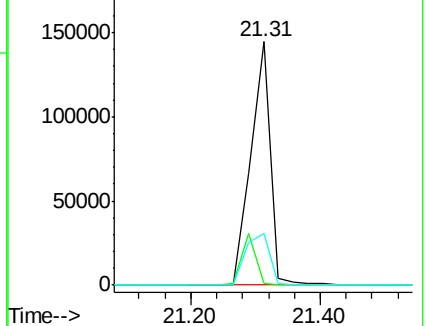
236 21.4 21.7 32.5#

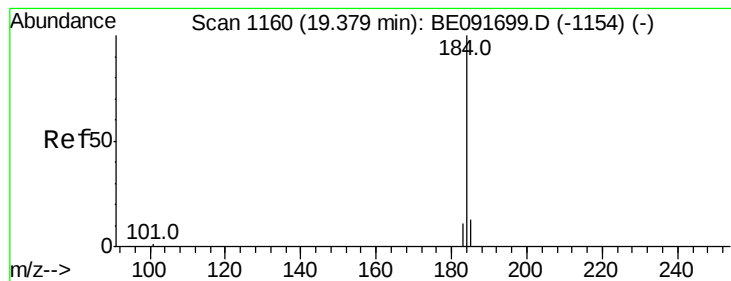


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#27

Benzidine

Concen: 1.15 ng

RT: 19.38 min Scan# 1159

Delta R.T. 0.00 min

Lab File: BE091726.D

Acq: 27 Apr 2016 15:03

Instrument :

BNA\_E

ClientSampleId :

CEDAR-HILL-TF-PS-001MS

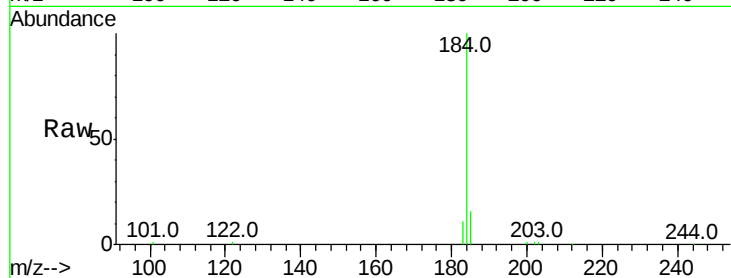
Tot Ion:184 Resp: 24237

Ion Ratio Lower Upper

184 100

185 15.9 22.3 33.5#

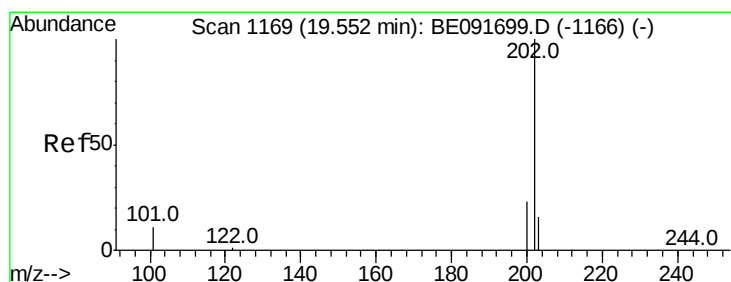
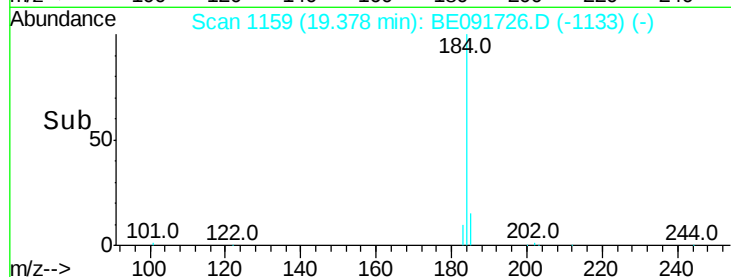
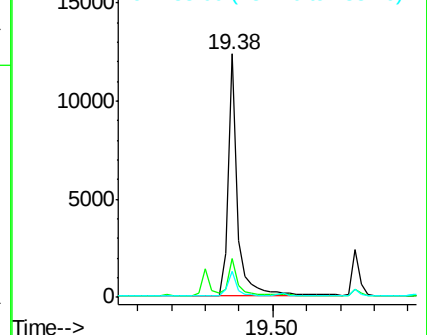
183 10.9 16.4 24.6#



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



#28

Pyrene

Concen: 4.10 ng

RT: 19.55 min Scan# 1168

Delta R.T. -0.00 min

Lab File: BE091726.D

Acq: 27 Apr 2016 15:03

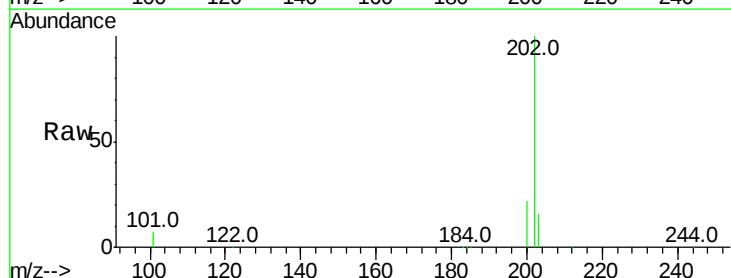
Tgt Ion:202 Resp: 279109

Ion Ratio Lower Upper

202 100

200 21.6 16.8 25.2

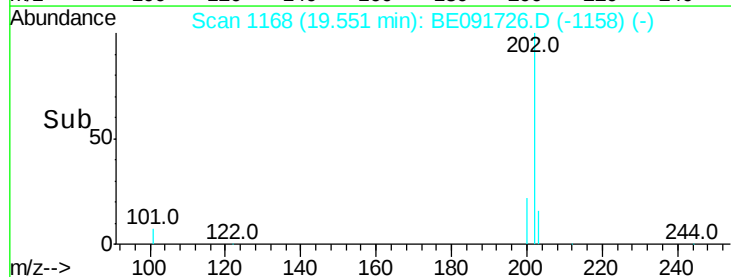
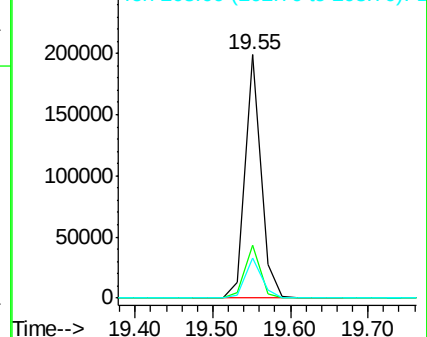
203 17.7 14.0 21.0

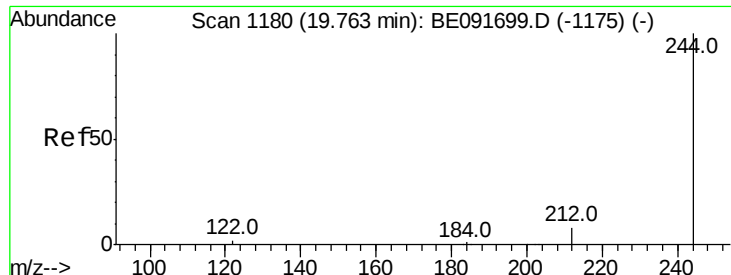


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 4.22 ng

RT: 19.76 min Scan# 1179

Delta R.T. -0.00 min

Lab File: BE091726.D

Acq: 27 Apr 2016 15:03

Instrument :

BNA\_E

ClientSampleId :

CEDAR-HILL-TF-PS-001MS

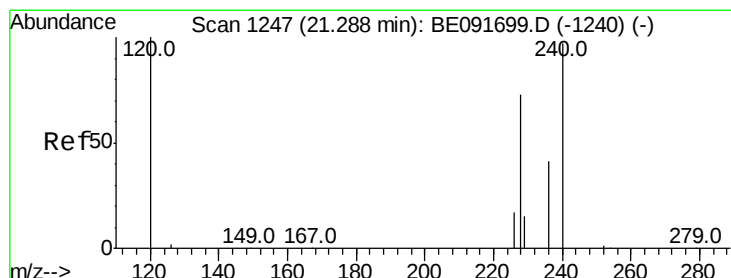
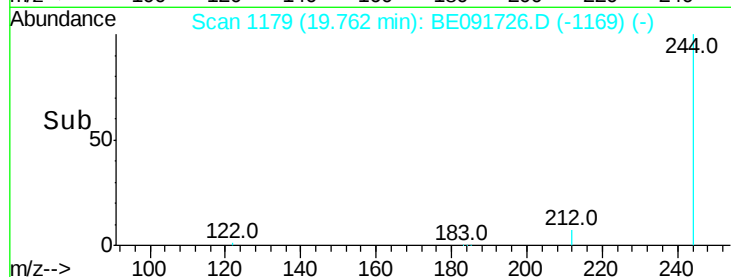
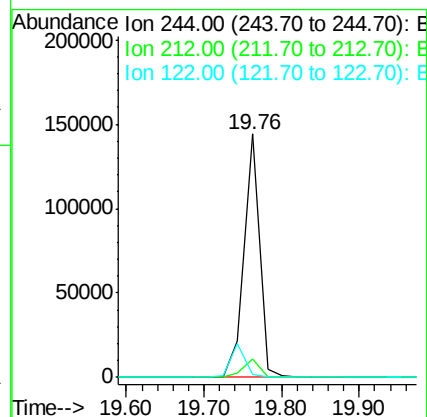
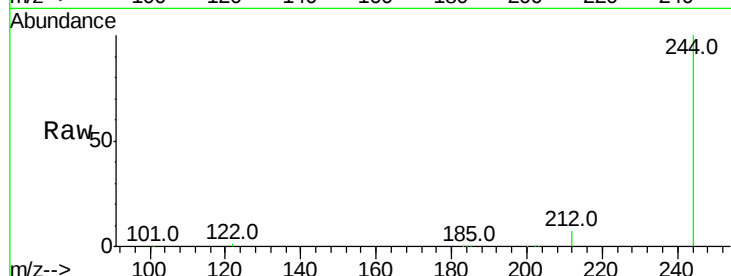
Tot Ion:244 Resp: 198662

Ion Ratio Lower Upper

244 100

212 7.4 6.9 10.3

122 1.2 11.0 16.4#



#30

Benzo(a)anthracene

Concen: 3.45 ng

RT: 21.29 min Scan# 1246

Delta R.T. 0.00 min

Lab File: BE091726.D

Acq: 27 Apr 2016 15:03

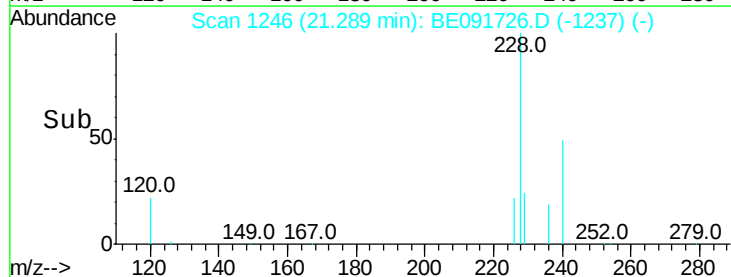
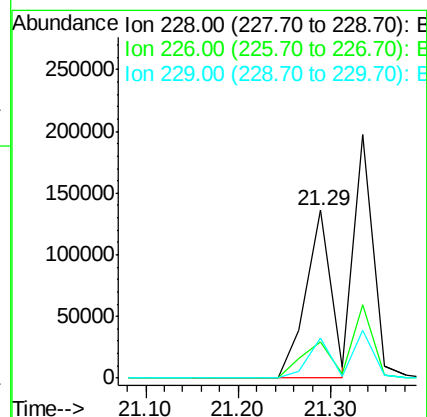
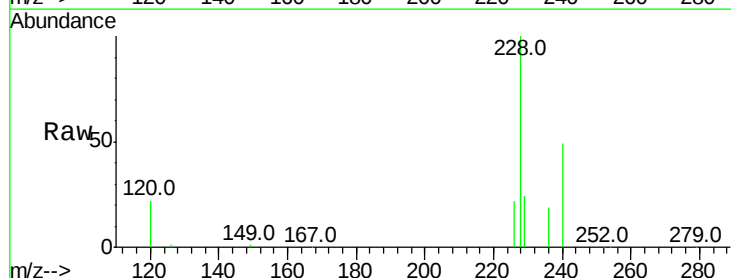
Tgt Ion:228 Resp: 254039

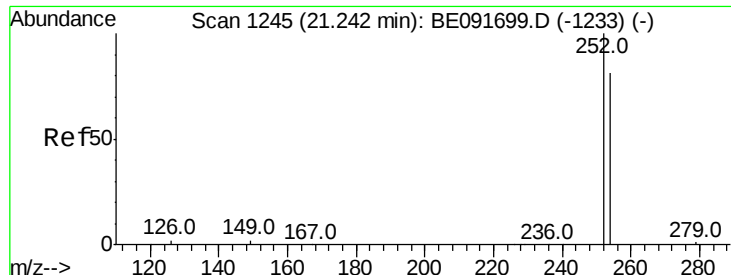
Ion Ratio Lower Upper

228 100

226 21.9 21.0 31.4

229 23.7 15.7 23.5#





#31

3,3'-Dichlorobenzidine

Concen: 1.42 ng

RT: 21.22 min Scan# 1243

Delta R.T. -0.02 min

Lab File: BE091726.D

Acq: 27 Apr 2016 15:03

Instrument :

BNA\_E

ClientSampleId :

CEDAR-HILL-TF-PS-001MS

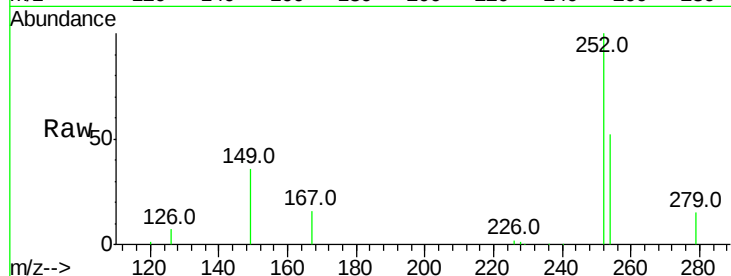
Tot Ion:252 Resp: 53461

Ion Ratio Lower Upper

252 100

254 52.4 51.1 76.7

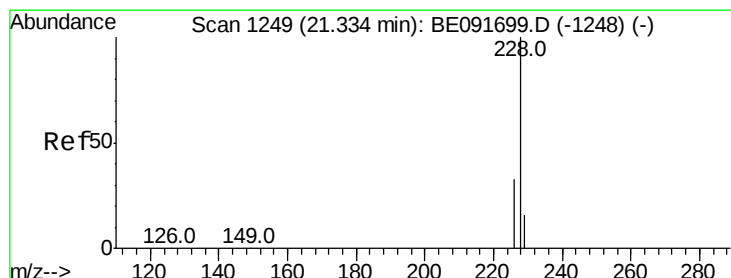
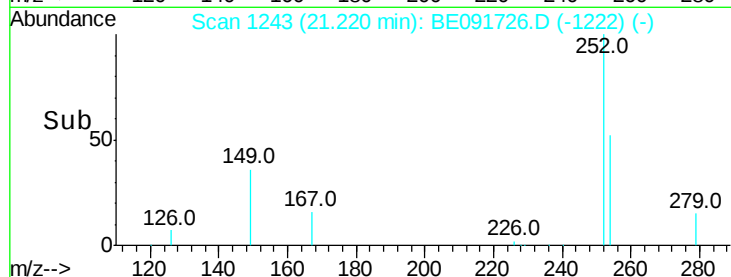
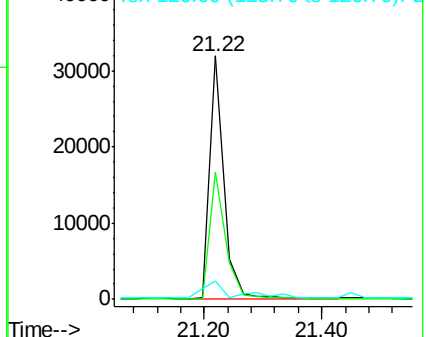
126 7.5 12.6 18.8#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E



#32

Chrysene

Concen: 3.32 ng

RT: 21.29 min Scan# 1246

Delta R.T. -0.05 min

Lab File: BE091726.D

Acq: 27 Apr 2016 15:03

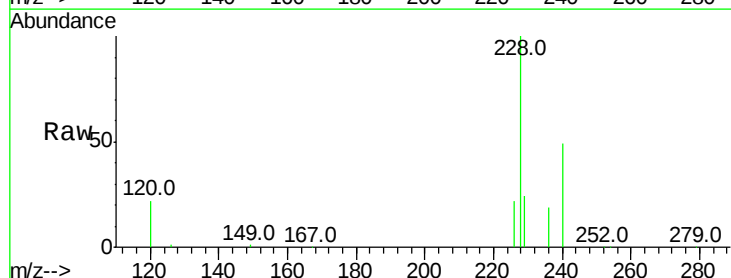
Tgt Ion:228 Resp: 253988

Ion Ratio Lower Upper

228 100

226 21.9 24.0 36.0#

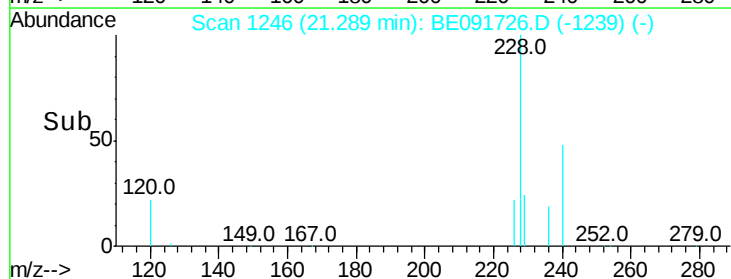
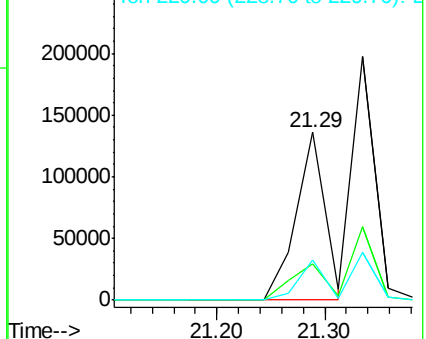
229 23.7 15.9 23.9



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

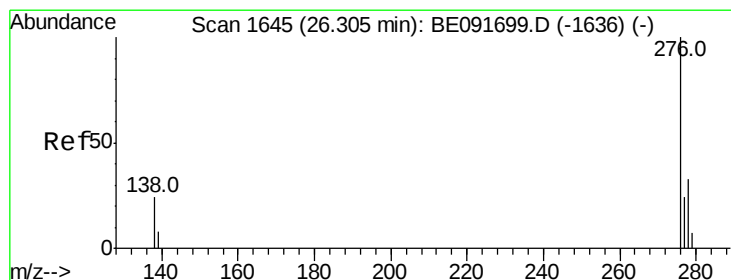
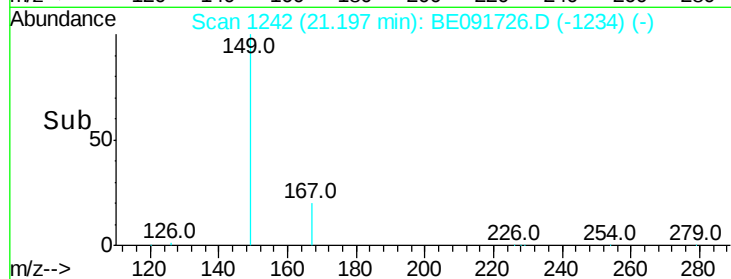
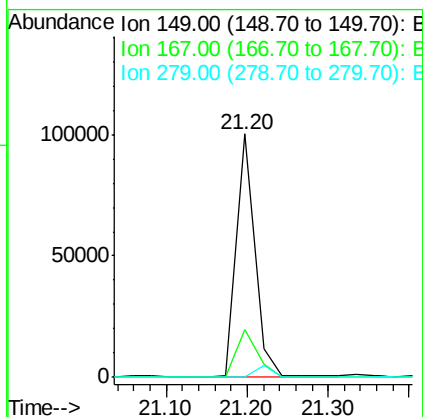
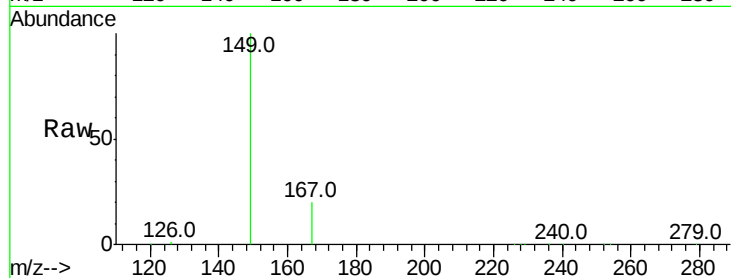




#33  
 Bis(2-ethylhexyl)phthalate  
 Concen: 7.00 ng  
 RT: 21.20 min Scan# 1242  
 Delta R.T. -0.02 min  
 Lab File: BE091726.D  
 Acq: 27 Apr 2016 15:03

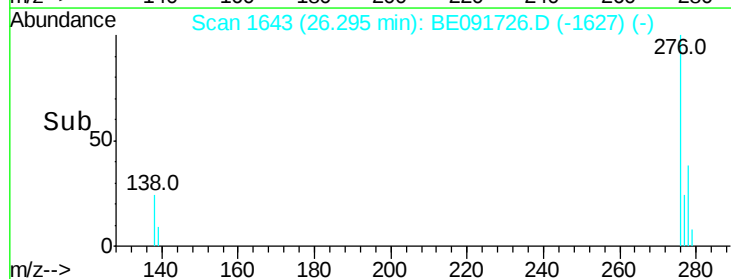
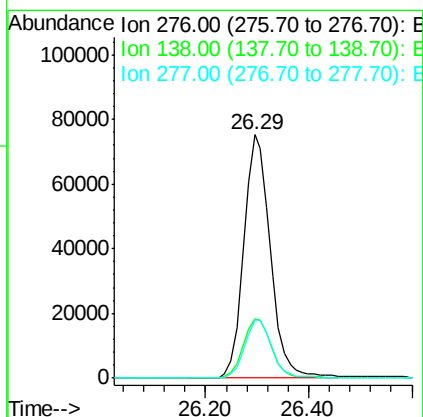
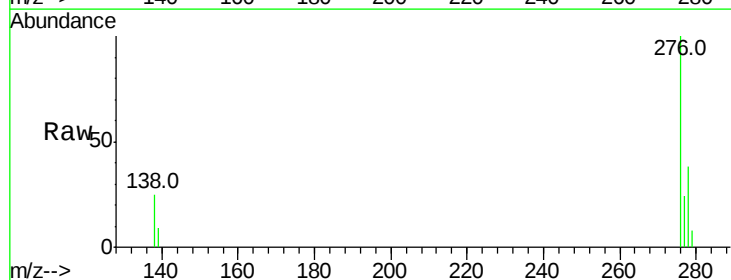
Instrument :  
 BNA\_E  
 ClientSampleId :  
 CEDAR-HILL-TF-PS-001MS

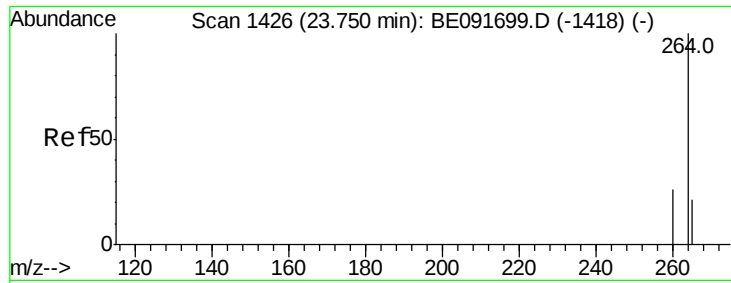
Tot Ion:149 Resp: 156180  
 Ion Ratio Lower Upper  
 149 100  
 167 22.2 19.5 29.3  
 279 0.0 10.0 15.0#



#34  
 Indeno(1,2,3-cd)pyrene  
 Concen: 3.92 ng  
 RT: 26.29 min Scan# 1643  
 Delta R.T. -0.01 min  
 Lab File: BE091726.D  
 Acq: 27 Apr 2016 15:03

Tgt Ion:276 Resp: 267397  
 Ion Ratio Lower Upper  
 276 100  
 138 25.8 23.4 35.2  
 277 24.7 19.8 29.8

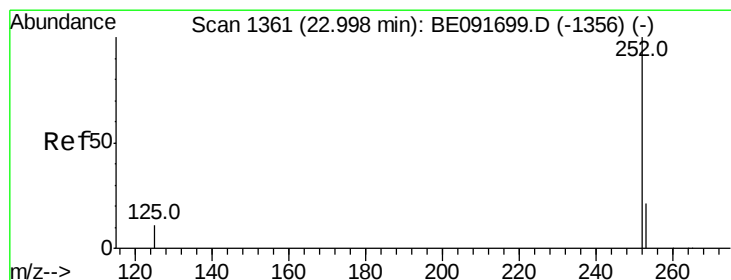
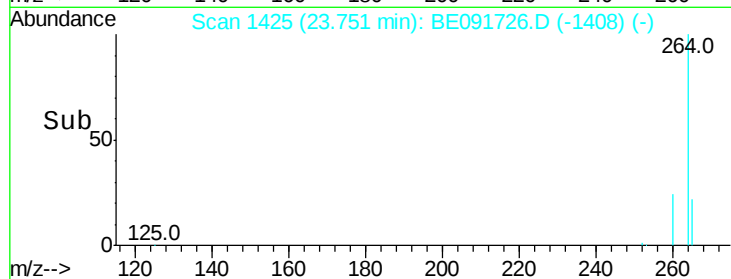
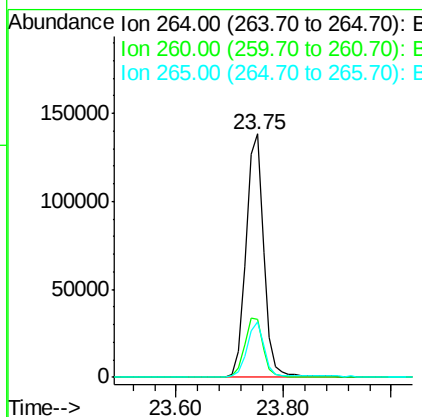
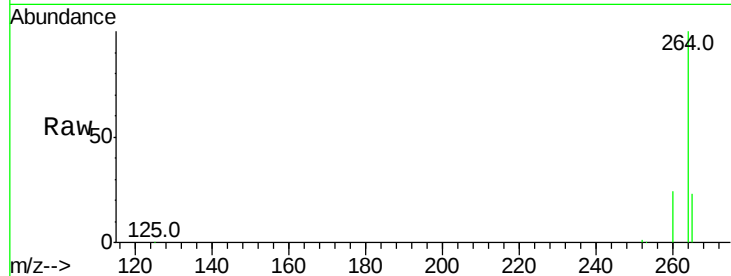




#35  
Pervlene-d12  
Concen: 5.00 ng  
RT: 23.75 min Scan# 1425  
Delta R.T. 0.00 min  
Lab File: BE091726.D  
Acq: 27 Apr 2016 15:03

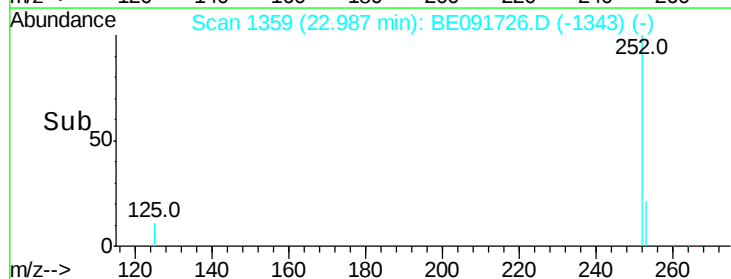
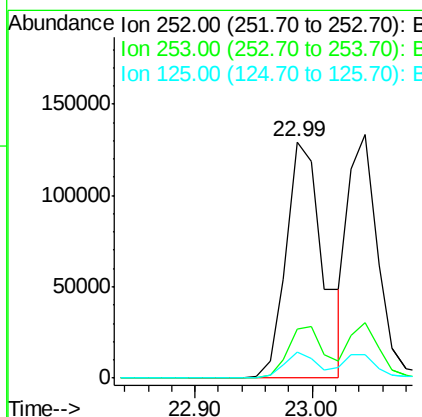
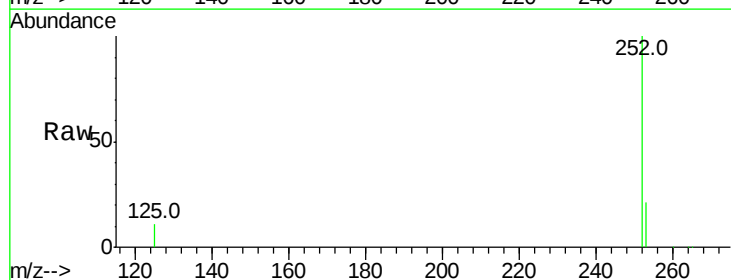
Instrument :  
BNA\_E  
ClientSampleId :  
CEDAR-HILL-TF-PS-001MS

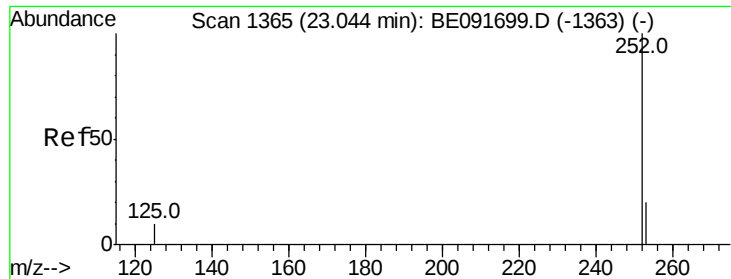
Tot Ion:264 Resp: 316600  
Ion Ratio Lower Upper  
264 100  
260 23.6 20.0 30.0  
265 22.8 17.5 26.3



#36  
Benzo(b)fluoranthene  
Concen: 3.82 ng  
RT: 22.99 min Scan# 1359  
Delta R.T. -0.01 min  
Lab File: BE091726.D  
Acq: 27 Apr 2016 15:03

Tgt Ion:252 Resp: 283686  
Ion Ratio Lower Upper  
252 100  
253 20.7 17.4 26.0  
125 11.1 10.2 15.2





#37

Benzo(k)fluoranthene

Concen: 3.76 ng

RT: 22.99 min Scan# 1359

Delta R.T. -0.06 min

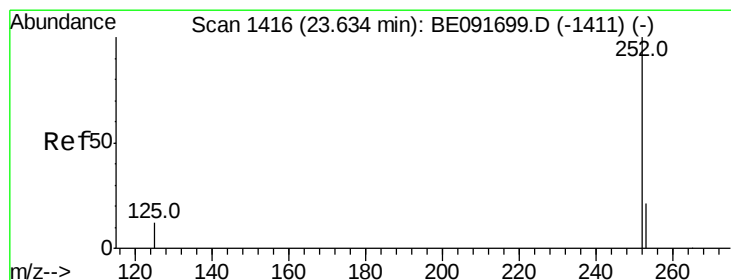
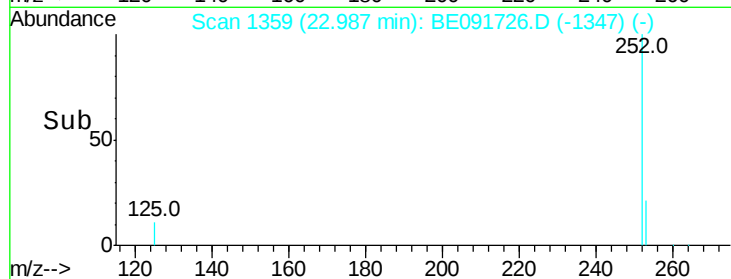
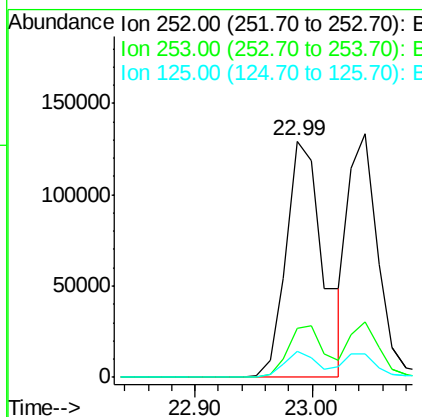
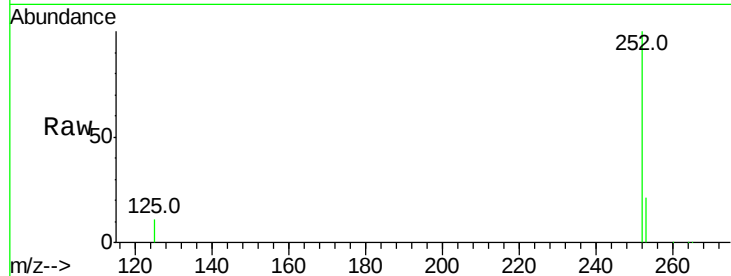
Lab File: BE091726.D

Acq: 27 Apr 2016 15:03

Instrument :  
BNA\_E  
ClientSampleId :  
CEDAR-HILL-TF-PS-001MS

Tot Ion:252 Resp: 283686

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 20.7  | 17.6  | 26.4  |
| 125 | 11.1  | 9.9   | 14.9  |



#38

Benzo(a)pyrene

Concen: 3.51 ng

RT: 23.63 min Scan# 1415

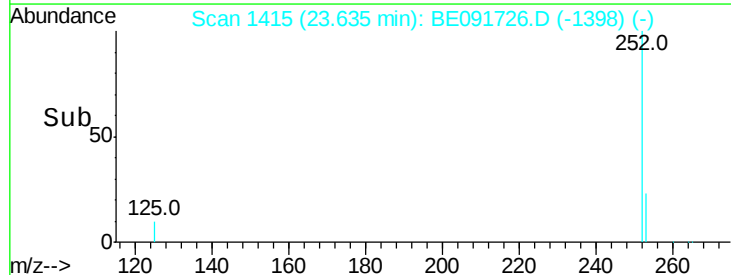
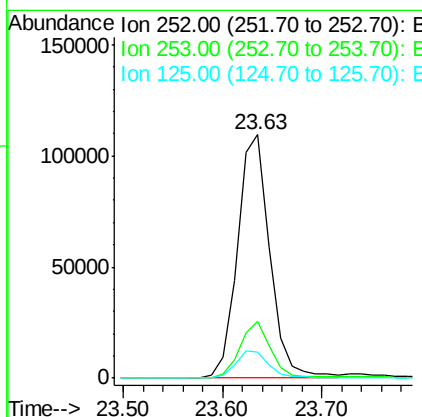
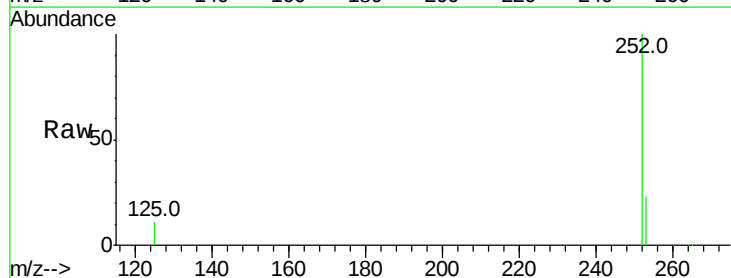
Delta R.T. 0.00 min

Lab File: BE091726.D

Acq: 27 Apr 2016 15:03

Tgt Ion:252 Resp: 245244

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 23.1  | 18.1  | 27.1  |
| 125 | 10.6  | 11.0  | 16.4  |





#39

Dibenzo(a,h)anthracene

Concen: 3.35 ng

RT: 26.32 min Scan# 1645

Delta R.T. -0.02 min

Lab File: BE091726.D

Acq: 27 Apr 2016 15:03

Instrument :

BNA\_E

ClientSampleId :

CEDAR-HILL-TF-PS-001MS

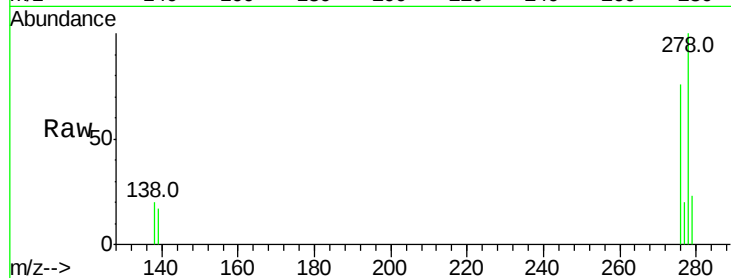
Tot Ion:278 Resp: 222011

Ion Ratio Lower Upper

278 100

139 17.2 16.0 24.0

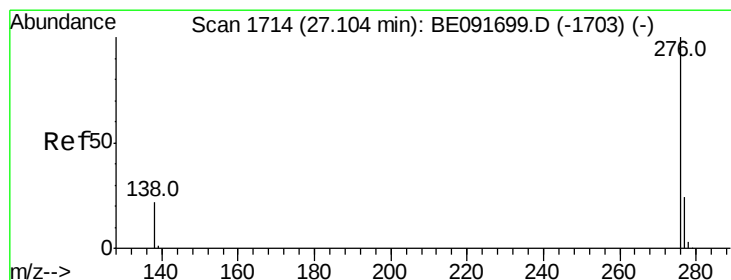
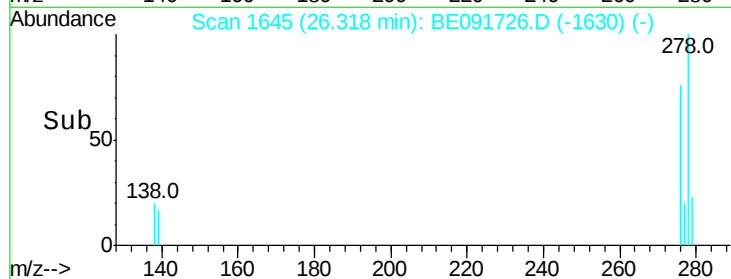
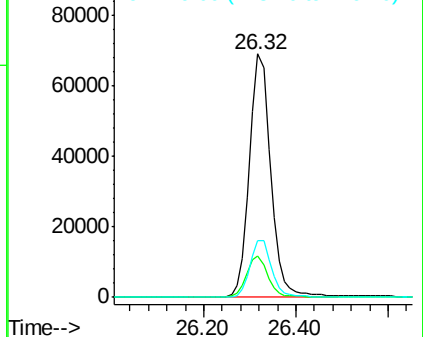
279 23.4 19.4 29.2



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



#40

Benzo(g,h,i)perylene

Concen: 3.34 ng

RT: 27.08 min Scan# 1711

Delta R.T. -0.02 min

Lab File: BE091726.D

Acq: 27 Apr 2016 15:03

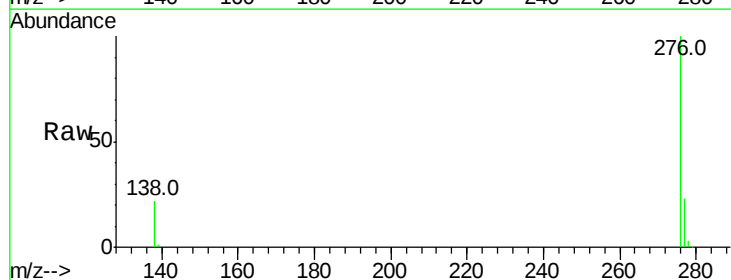
Tgt Ion:276 Resp: 224432

Ion Ratio Lower Upper

276 100

277 23.4 18.6 28.0

138 22.0 20.4 30.6



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

