

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE020416\
 Data File : BE091393.D
 Acq On : 4 Feb 2016 17:15
 Operator : UM/IZ
 Sample : SSTDCCC001
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

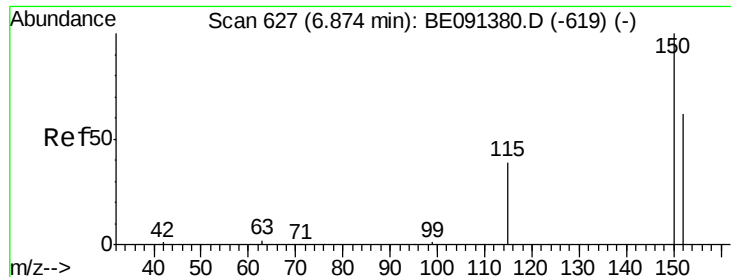
Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001EC

Quant Time: Feb 05 06:33:40 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE020216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 03 00:27:53 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.88	152	46079	5.00	ng	0.00
4) Naphthalene-d8	9.55	136	221958	5.00	ng	0.00
8) Acenaphthene-d10	13.36	164	138596	5.00	ng	0.00
14) Phenanthrene-d10	16.09	188	348382	5.00	ng	0.00
18) Chrysene-d12	20.22	240	407184	5.00	ng	0.00
24) Perylene-d12	22.10	264	381435	5.00	ng	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	4.94	112	8097	0.94	ng	0.00
3) Phenol-d6	6.57	99	12470	0.99	ng	0.00
5) Nitrobenzene-d5	8.17	82	10514	0.95	ng	0.00
9) 2,4,6-Tribromophenol	14.91	330	3577	0.84	ng	0.00
10) 2-Fluorobiphenyl	12.01	172	34333	0.95	ng	0.00
20) Terphenyl-d14	18.62	244	58749	0.98	ng	0.00
Target Compounds						Qvalue
6) Naphthalene	9.59	128	45945	0.92	ng	99
7) 2-Methylnaphthalene	11.13	142	26266	0.95	ng	98
11) Acenaphthylene	13.10	152	184868	0.92	ng	100
12) Acenaphthene	13.42	154	33746	0.89	ng	98
13) Fluorene	14.40	166	45115	0.92	ng	100
15) Phenanthrene	16.12	178	83202	0.91	ng	99
16) Anthracene	16.21	178	72152	0.94	ng	100
17) Fluoranthene	18.09	202	78313	0.91	ng	99
19) Pyrene	18.48	202	83051	0.94	ng	100
21) Benzo(a)anthracene	20.19	228	67968	0.89	ng	99
22) Chrysene	20.25	228	101081	0.94	ng	99
23) Indeno(1,2,3-cd)pyrene	23.70	276	72226	0.92	ng	99
25) Benzo(b)fluoranthene	21.55	252	75246	0.92	ng	100
26) Benzo(k)fluoranthene	21.57	252	86380	0.92	ng	98
27) Benzo(a)pyrene	22.00	252	66016	0.90	ng	100
28) Dibenzo(a,h)anthracene	23.65	278	61901	0.93	ng	99
29) Benzo(g,h,i)perylene	24.25	276	76499	0.93	ng	99

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

```
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Sample    : SSTCCCC001  
Misc      :  
ALS Vial  : 2 Sample Multiplier: 1
```



#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 6.88 min Scan# 628

Delta R.T. 0.01 min

Lab File: BE091393.D

Acq: 4 Feb 2016 17:15

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

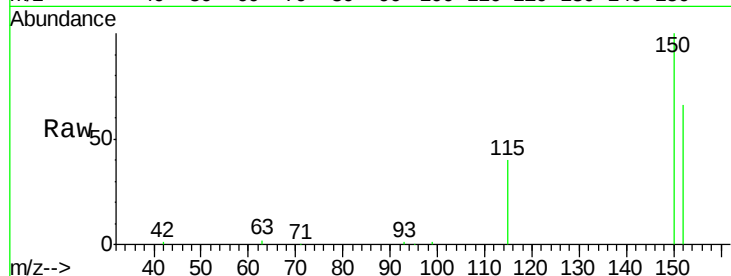
Tgt Ion:152 Resp: 46079

Ion Ratio Lower Upper

152 100

150 151.8 128.9 193.3

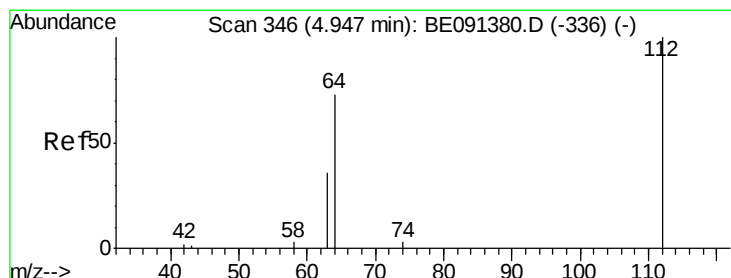
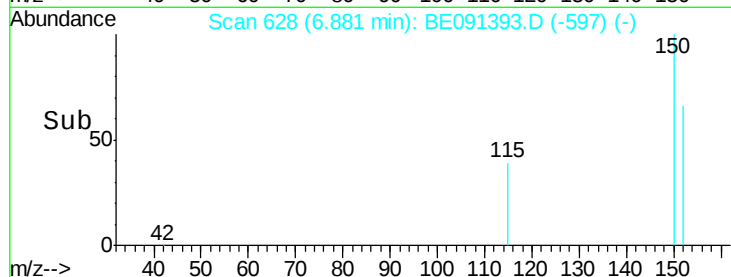
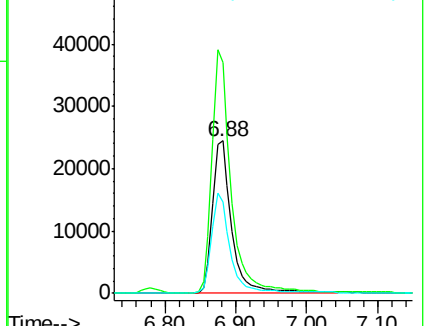
115 60.1 50.9 76.3



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

2-Fluorophenol

Concen: 0.94 ng

RT: 4.94 min Scan# 346

Delta R.T. -0.00 min

Lab File: BE091393.D

Acq: 4 Feb 2016 17:15

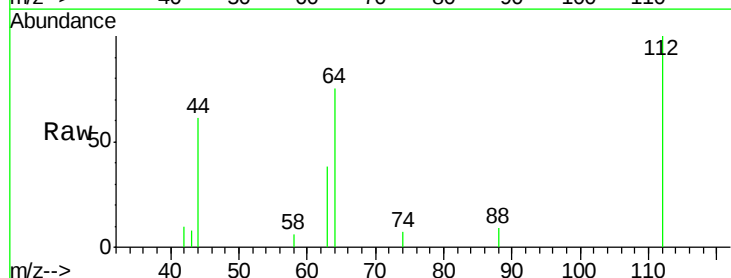
Tgt Ion:112 Resp: 8097

Ion Ratio Lower Upper

112 100

64 73.7 60.5 90.7

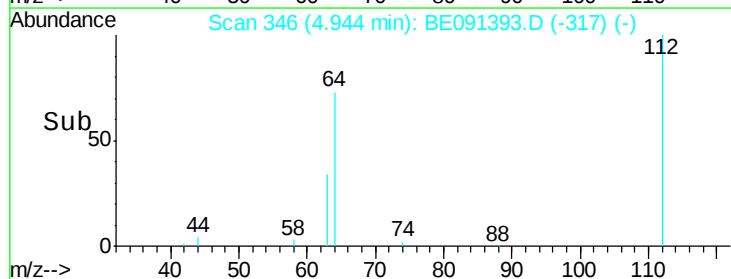
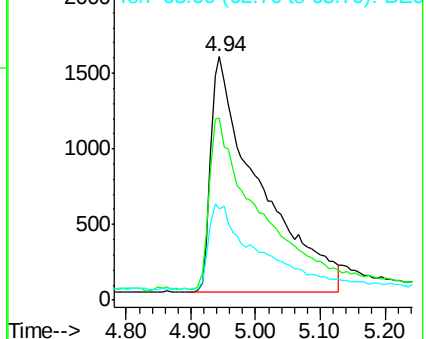
63 37.3 29.8 44.8

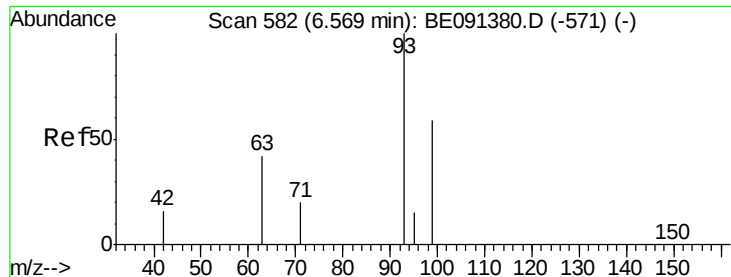


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#3

Phenol-d6

Concen: 0.99 ng

RT: 6.57 min Scan# 582

Delta R.T. 0.00 min

Lab File: BE091393.D

Acq: 4 Feb 2016 17:15

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

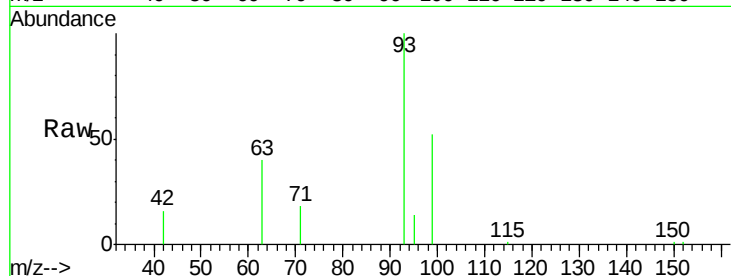
Tgt Ion: 99 Resp: 12470

Ion Ratio Lower Upper

99 100

42 17.8 13.3 19.9

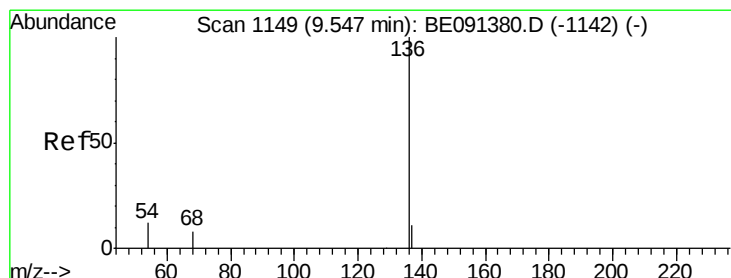
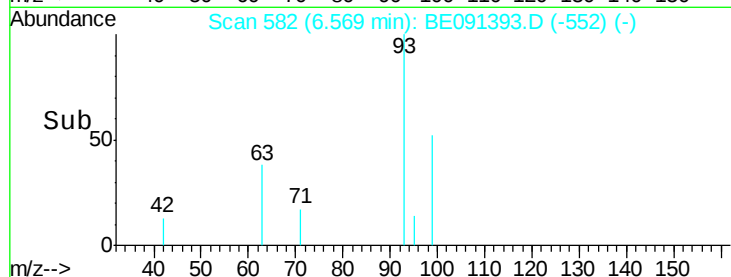
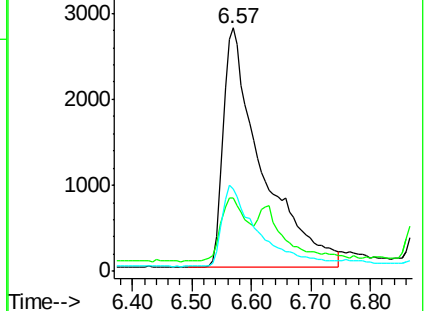
71 32.5 25.6 38.4



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



#4

Naphthalene-d8

Concen: 5.00 ng

RT: 9.55 min Scan# 1149

Delta R.T. 0.00 min

Lab File: BE091393.D

Acq: 4 Feb 2016 17:15

Tgt Ion: 136 Resp: 221958

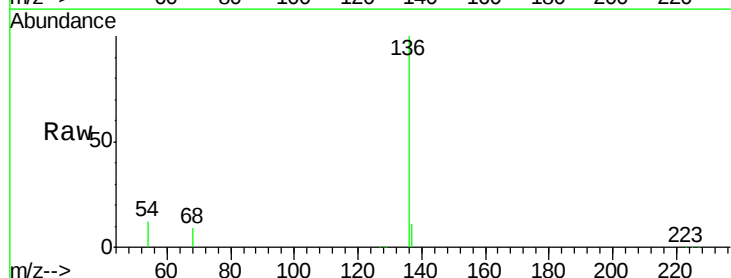
Ion Ratio Lower Upper

136 100

137 11.0 8.7 13.1

54 12.0 9.3 13.9

68 8.6 6.7 10.1

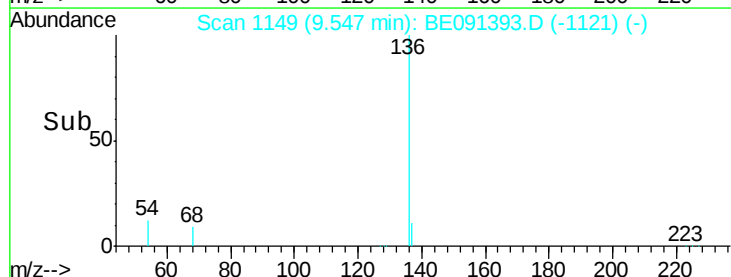
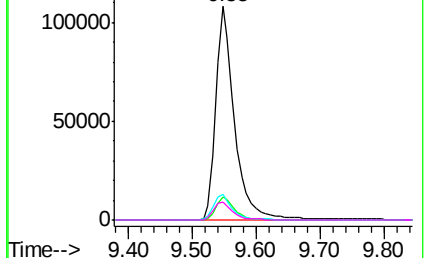


Abundance Ion 136.00 (135.70 to 136.70): E

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





#5

Nitrobenzene-d5

Concen: 0.95 ng

RT: 8.17 min Scan# 862

Delta R.T. 0.00 min

Lab File: BE091393.D

Acq: 4 Feb 2016 17:15

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

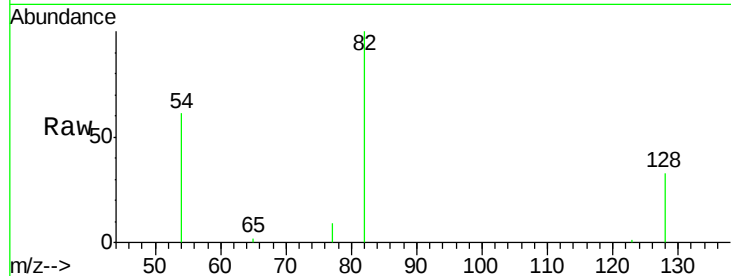
Tgt Ion: 82 Resp: 10514

Ion Ratio Lower Upper

82 100

128 33.2 25.0 37.4

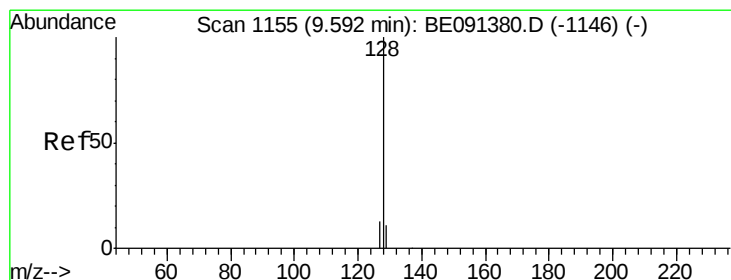
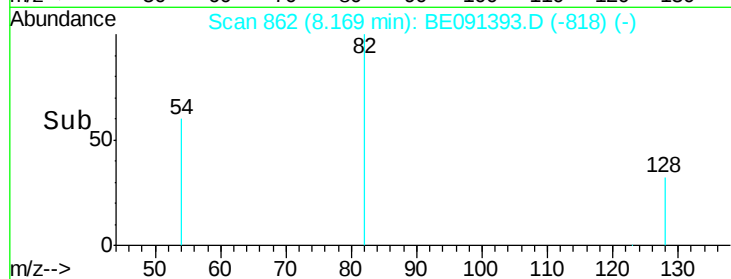
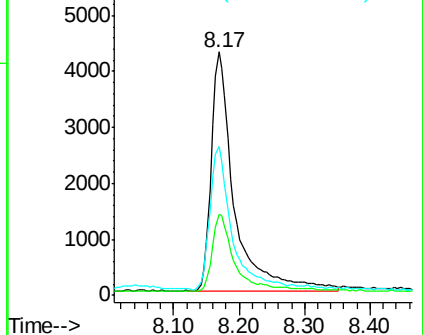
54 61.1 48.1 72.1



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



#6

Naphthalene

Concen: 0.92 ng

RT: 9.59 min Scan# 1155

Delta R.T. 0.00 min

Lab File: BE091393.D

Acq: 4 Feb 2016 17:15

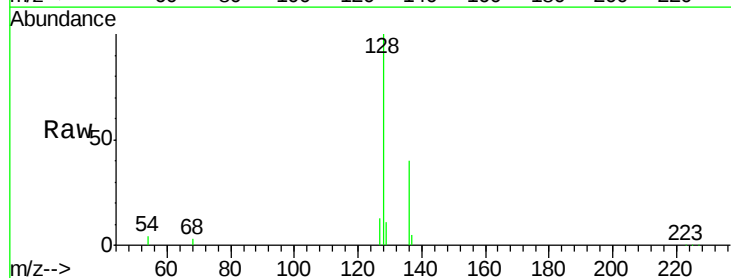
Tgt Ion: 128 Resp: 45945

Ion Ratio Lower Upper

128 100

129 11.1 9.1 13.7

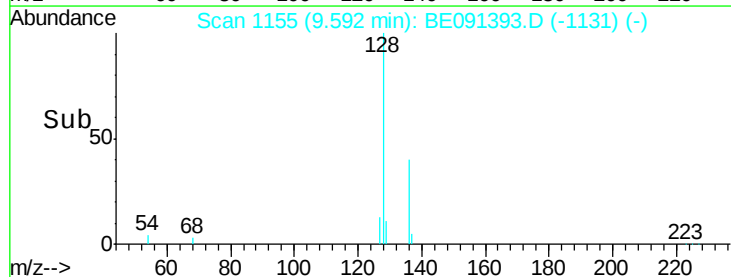
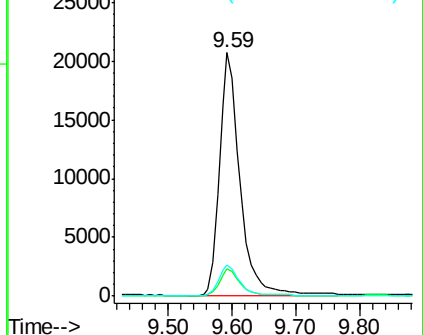
127 13.0 10.5 15.7



Abundance Ion 128.00 (127.70 to 128.70): BE0

Ion 129.00 (128.70 to 129.70): BE0

Ion 127.00 (126.70 to 127.70): BE0





#7

2-Methylnaphthalene

Concen: 0.95 ng

RT: 11.13 min Scan# 1410

Delta R.T. 0.00 min

Lab File: BE091393.D

Acq: 4 Feb 2016 17:15

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

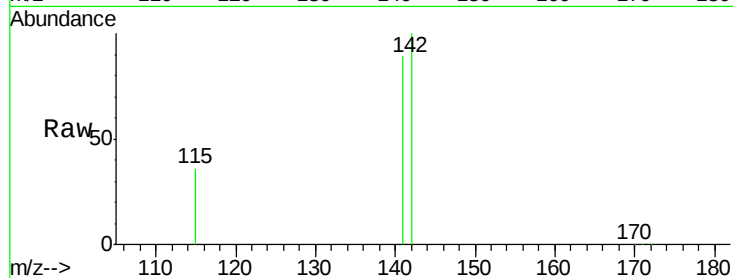
Tgt Ion:142 Resp: 26266

Ion Ratio Lower Upper

142 100

141 89.4 72.3 108.5

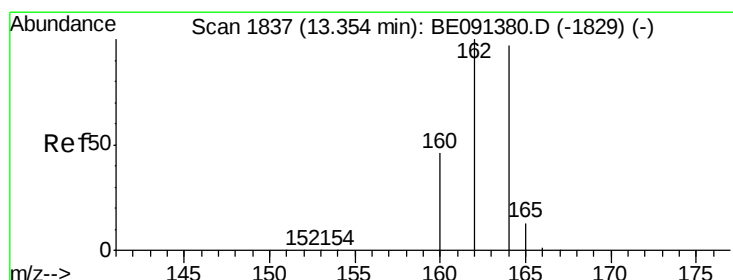
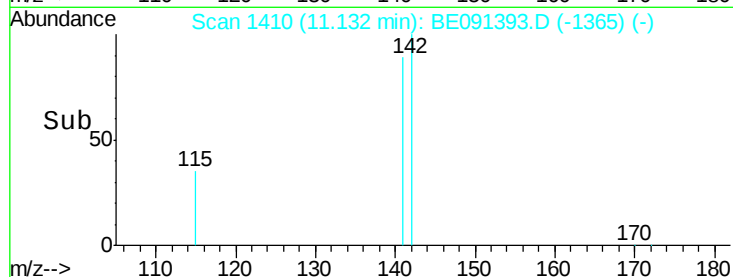
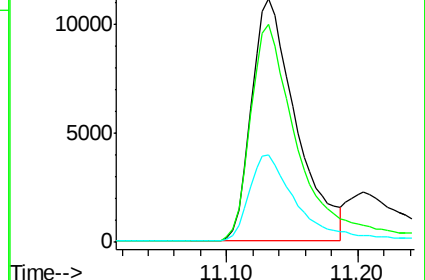
115 35.7 30.5 45.7



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



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 13.36 min Scan# 1838

Delta R.T. 0.00 min

Lab File: BE091393.D

Acq: 4 Feb 2016 17:15

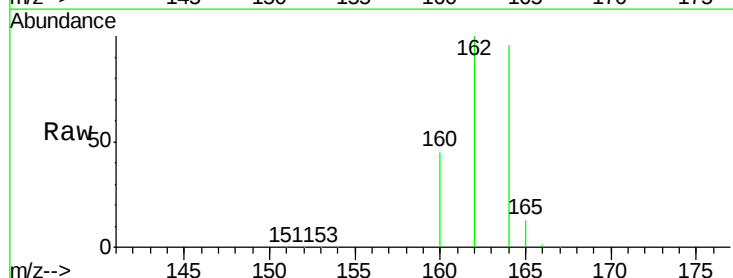
Tgt Ion:164 Resp: 138596

Ion Ratio Lower Upper

164 100

162 103.6 82.2 123.2

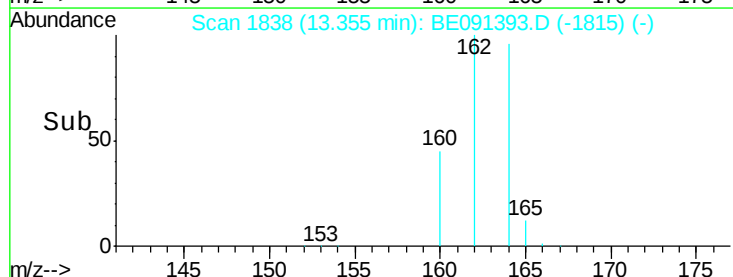
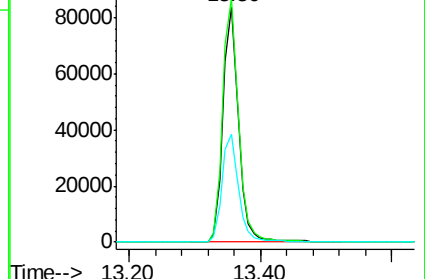
160 46.2 37.8 56.8



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





#9

2,4,6-Tribromophenol

Concen: 0.84 ng

RT: 14.91 min Scan# 2004

Delta R.T. 0.00 min

Lab File: BE091393.D

Acq: 4 Feb 2016 17:15

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

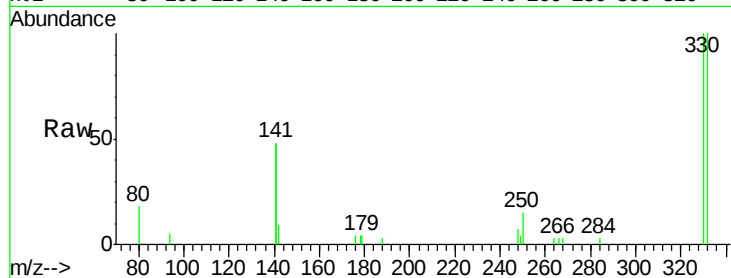
Tgt Ion:330 Resp: 3577

Ion Ratio Lower Upper

330 100

332 97.7 78.8 118.2

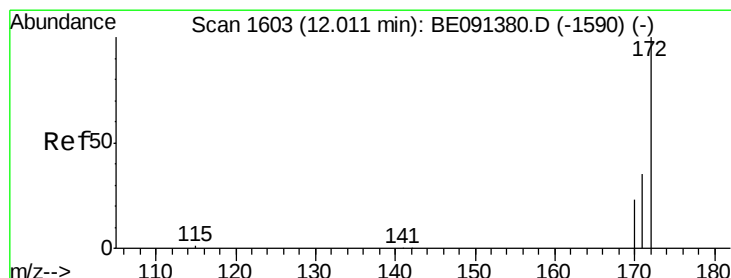
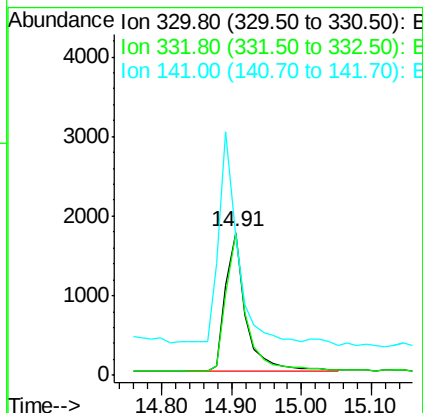
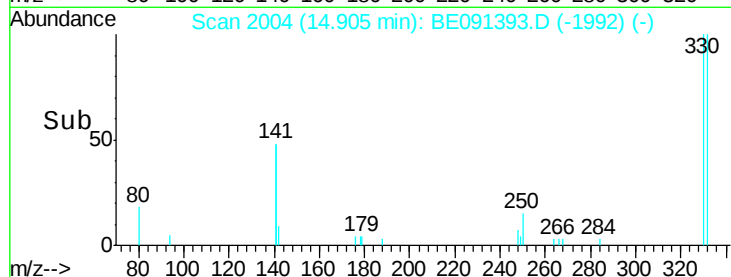
141 131.8 105.1 157.7



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



#10

2-Fluorobiphenyl

Concen: 0.95 ng

RT: 12.01 min Scan# 1604

Delta R.T. 0.00 min

Lab File: BE091393.D

Acq: 4 Feb 2016 17:15

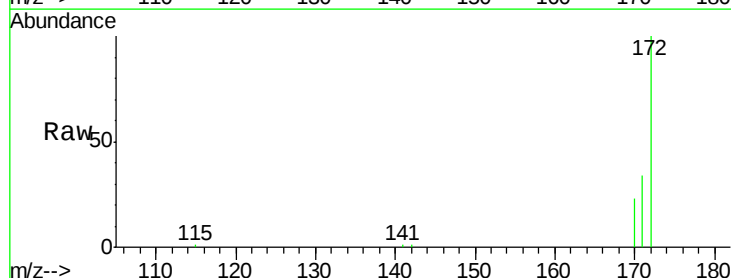
Tgt Ion:172 Resp: 34333

Ion Ratio Lower Upper

172 100

171 34.2 27.8 41.8

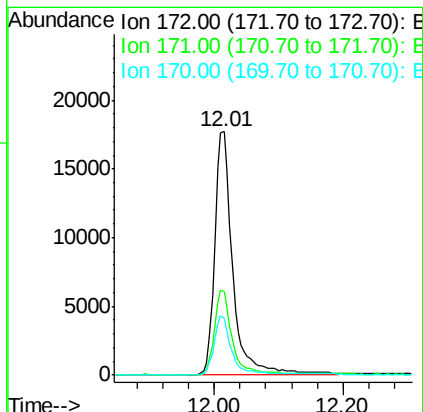
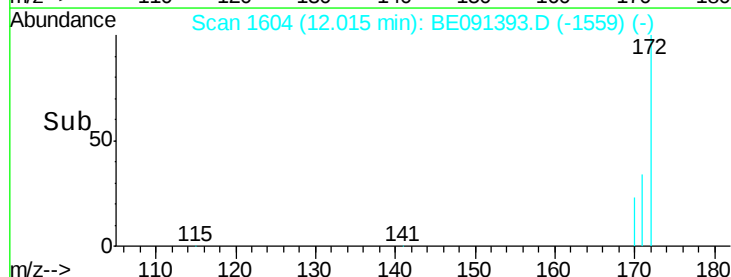
170 23.4 18.6 28.0

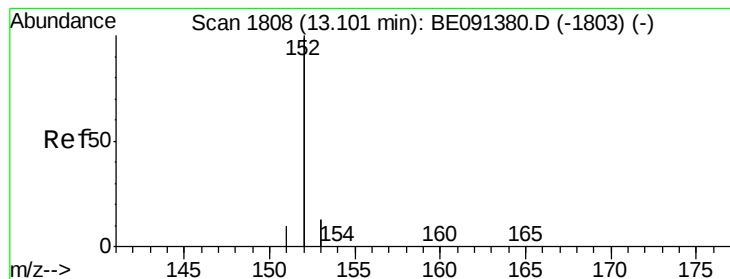


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#11

Acenaphthylene

Concen: 0.92 ng

RT: 13.10 min Scan# 1809

Delta R.T. 0.00 min

Lab File: BE091393.D

Acq: 4 Feb 2016 17:15

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

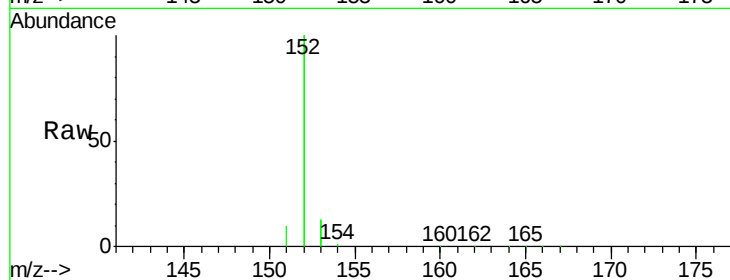
Tgt Ion:152 Resp: 184868

Ion Ratio Lower Upper

152 100

151 4.8 3.8 5.8

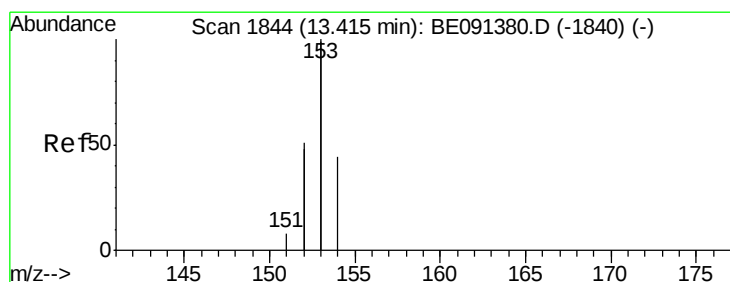
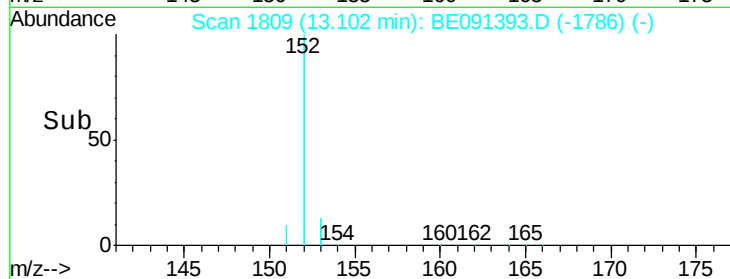
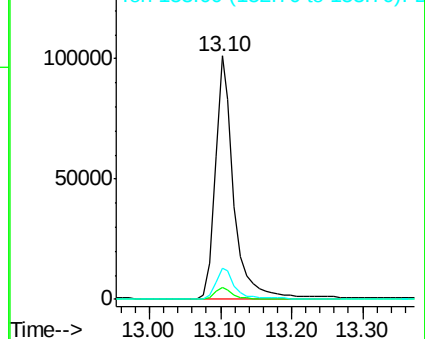
153 12.9 10.2 15.4



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



#12

Acenaphthene

Concen: 0.89 ng

RT: 13.42 min Scan# 1845

Delta R.T. 0.00 min

Lab File: BE091393.D

Acq: 4 Feb 2016 17:15

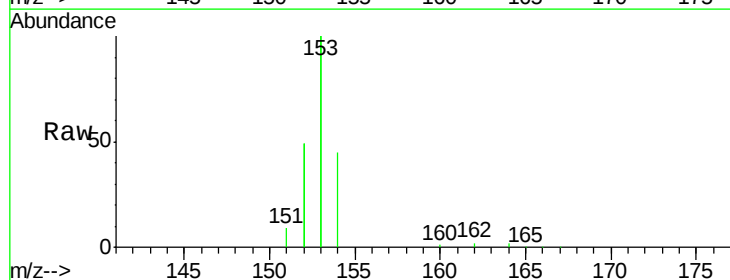
Tgt Ion:154 Resp: 33746

Ion Ratio Lower Upper

154 100

153 461.4 369.8 554.8

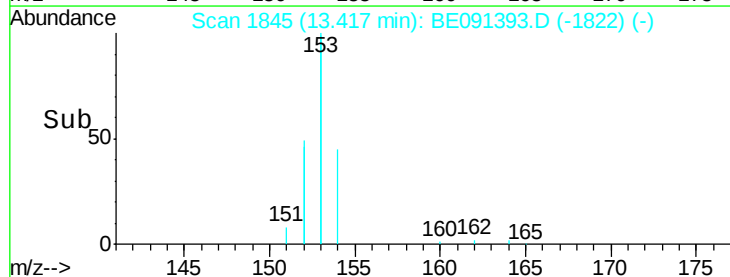
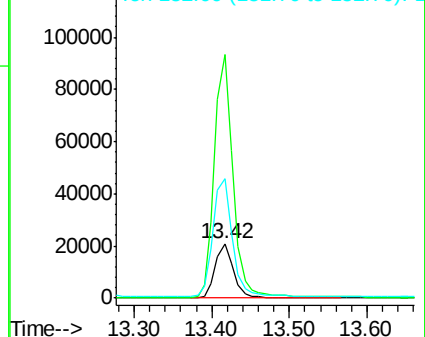
152 236.6 194.4 291.6

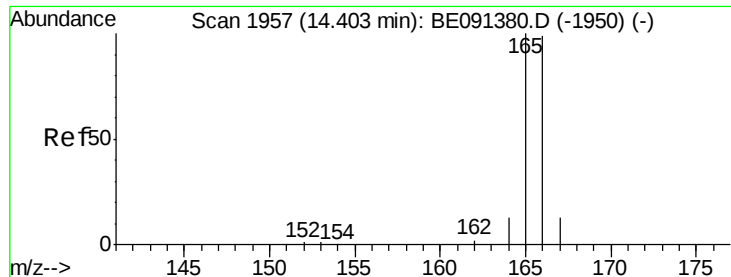


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#13

Fluorene

Concen: 0.92 ng

RT: 14.40 min Scan# 1958

Delta R.T. 0.00 min

Lab File: BE091393.D

Acq: 4 Feb 2016 17:15

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

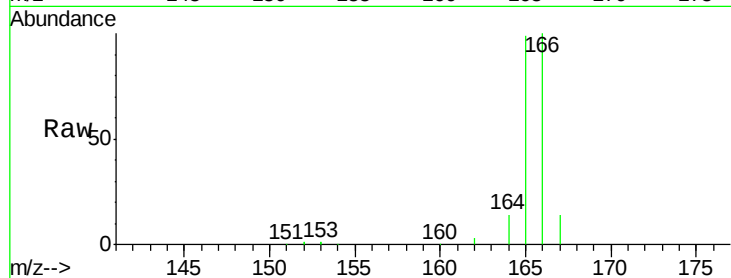
Tgt Ion:166 Resp: 45115

Ion Ratio Lower Upper

166 100

165 98.8 79.3 118.9

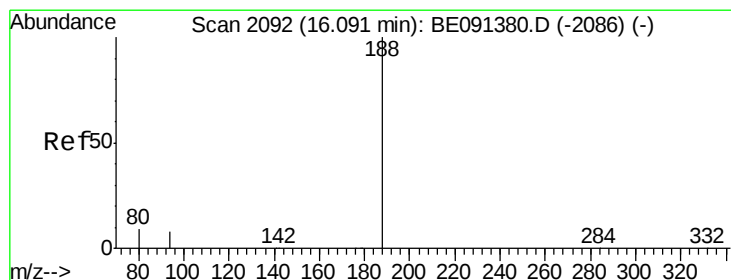
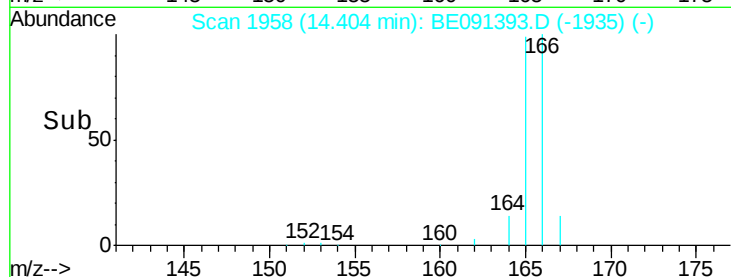
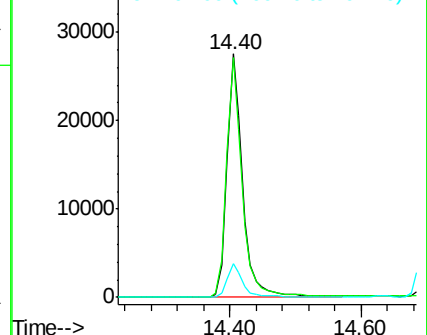
167 13.4 10.6 16.0



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#14

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.09 min Scan# 2093

Delta R.T. 0.00 min

Lab File: BE091393.D

Acq: 4 Feb 2016 17:15

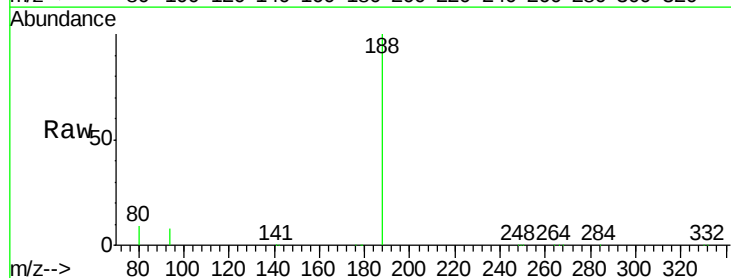
Tgt Ion:188 Resp: 348382

Ion Ratio Lower Upper

188 100

94 8.2 6.6 10.0

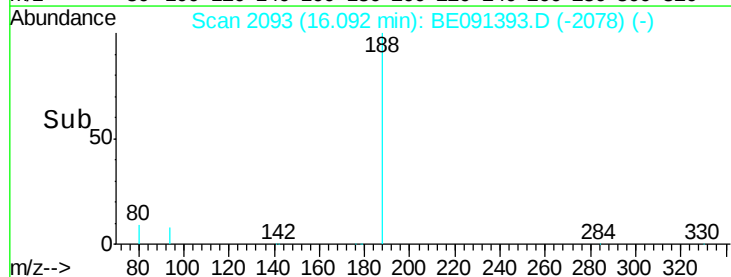
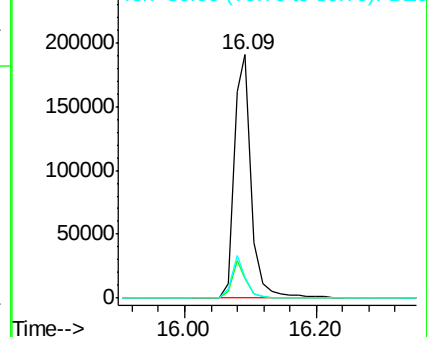
80 8.6 7.0 10.6

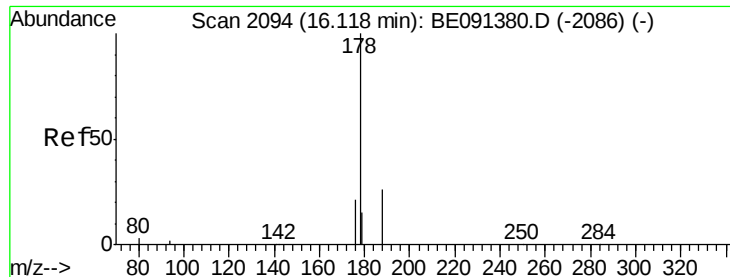


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#15

Phenanthrene

Concen: 0.91 ng

RT: 16.12 min Scan# 2095

Delta R.T. 0.00 min

Lab File: BE091393.D

Acq: 4 Feb 2016 17:15

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

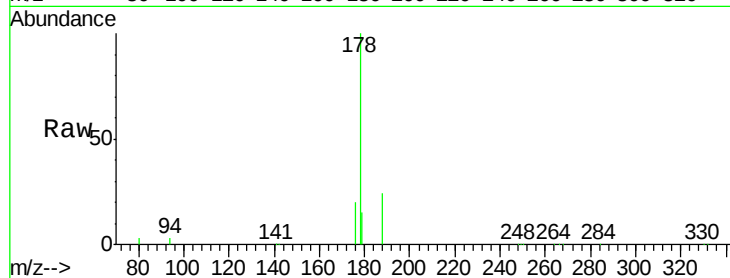
Tgt Ion:178 Resp: 83202

Ion Ratio Lower Upper

178 100

176 19.0 15.4 23.2

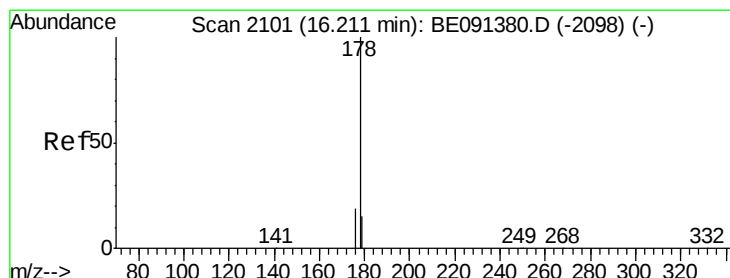
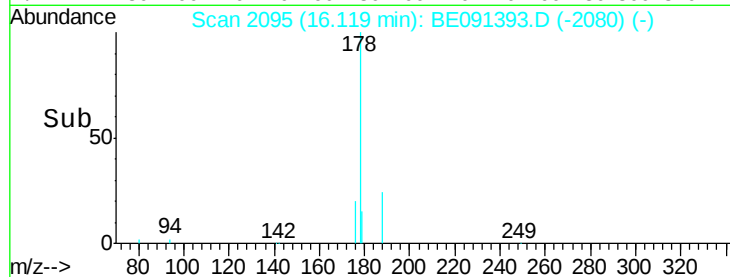
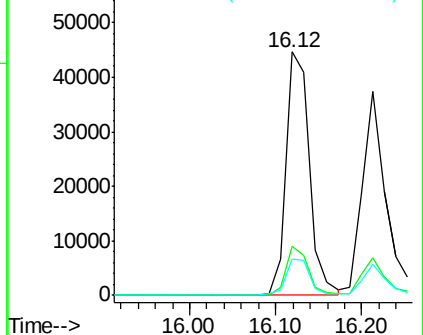
179 15.3 12.7 19.1



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



#16

Anthracene

Concen: 0.94 ng

RT: 16.21 min Scan# 2102

Delta R.T. 0.00 min

Lab File: BE091393.D

Acq: 4 Feb 2016 17:15

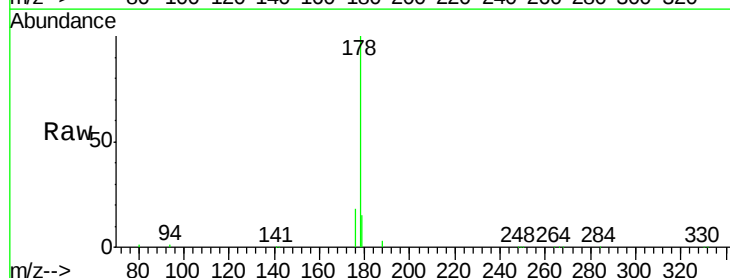
Tgt Ion:178 Resp: 72152

Ion Ratio Lower Upper

178 100

176 18.4 14.8 22.2

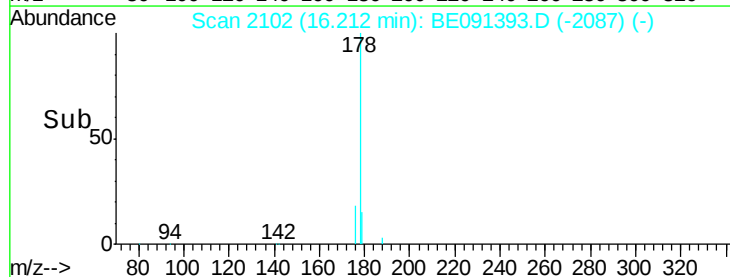
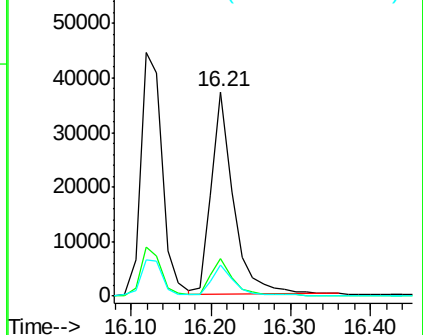
179 15.4 12.1 18.1

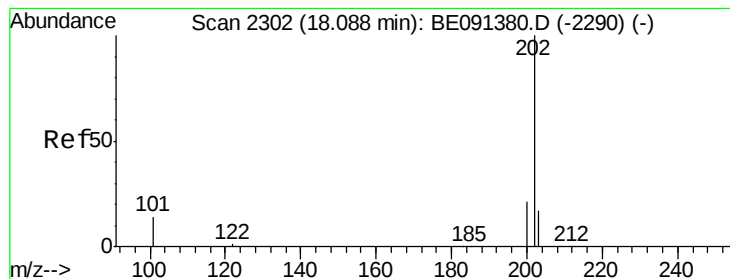


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#17

Fluoranthene

Concen: 0.91 ng

RT: 18.09 min Scan# 2303

Delta R.T. 0.00 min

Lab File: BE091393.D

Acq: 4 Feb 2016 17:15

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

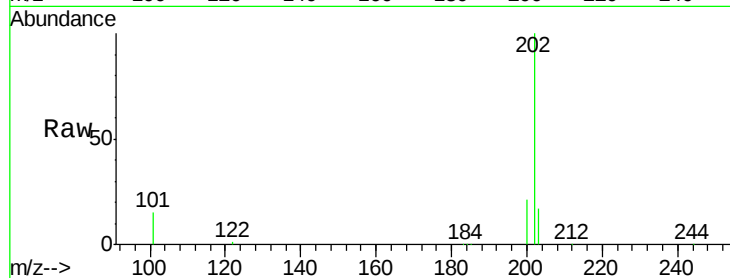
Tgt Ion:202 Resp: 78313

Ion Ratio Lower Upper

202 100

101 13.7 10.5 15.7

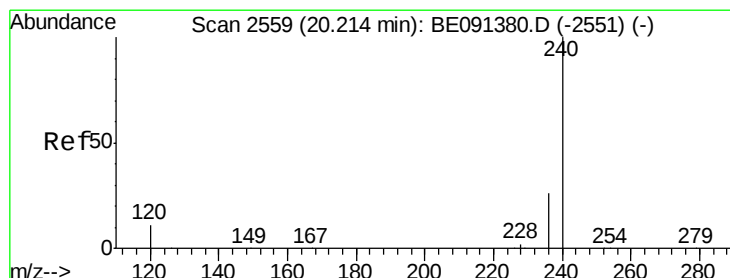
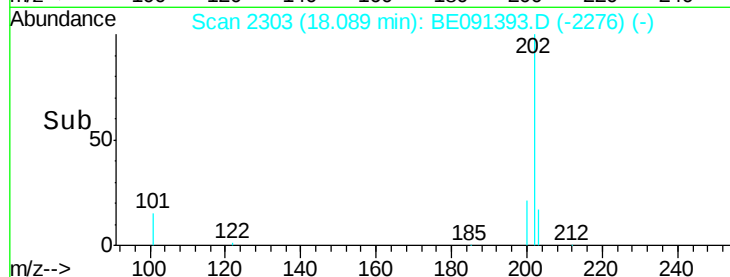
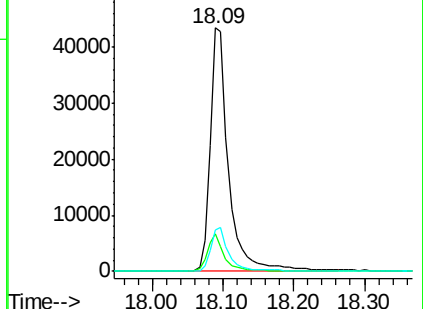
203 17.4 13.9 20.9



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



#18

Chrysene-d12

Concen: 5.00 ng

RT: 20.22 min Scan# 2560

Delta R.T. 0.00 min

Lab File: BE091393.D

Acq: 4 Feb 2016 17:15

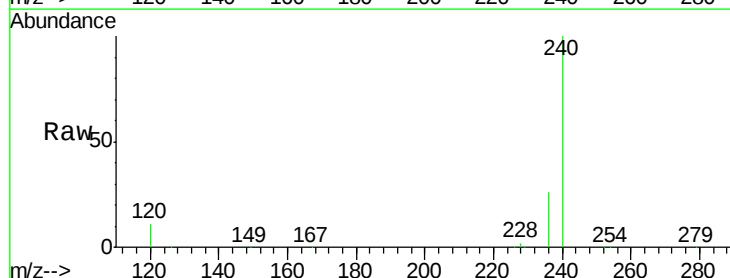
Tgt Ion:240 Resp: 407184

Ion Ratio Lower Upper

240 100

120 11.2 8.9 13.3

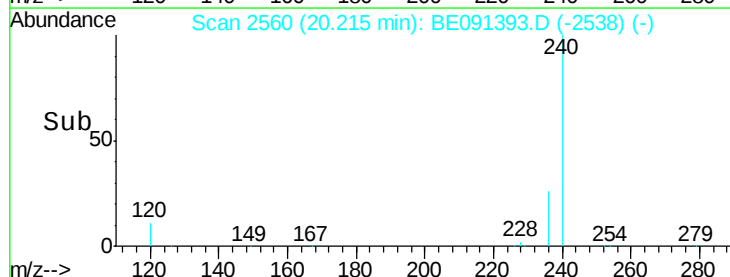
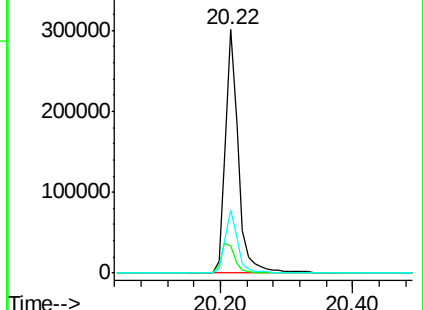
236 25.9 21.0 31.4

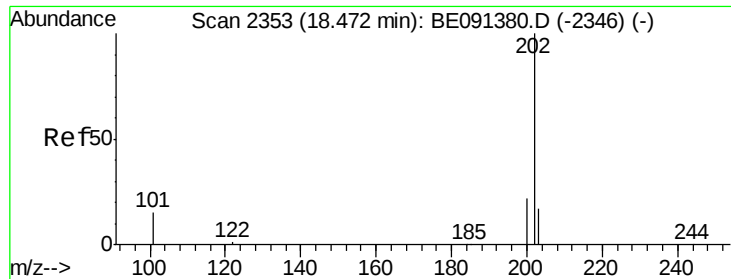


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#19

Pyrene

Concen: 0.94 ng

RT: 18.48 min Scan# 2355

Delta R.T. 0.01 min

Lab File: BE091393.D

Acq: 4 Feb 2016 17:15

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

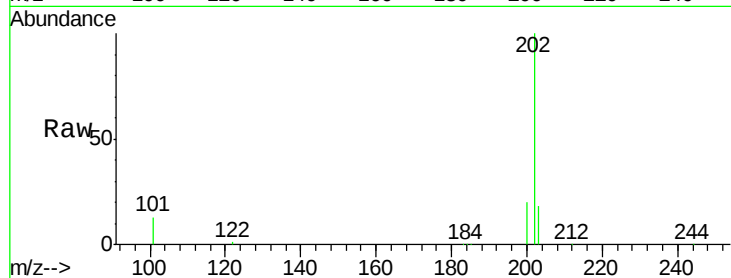
Tgt Ion:202 Resp: 83051

Ion Ratio Lower Upper

202 100

200 21.0 16.8 25.2

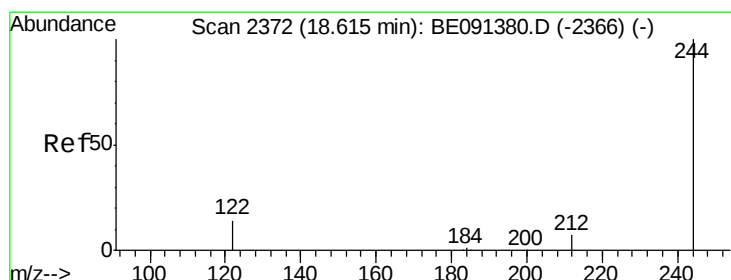
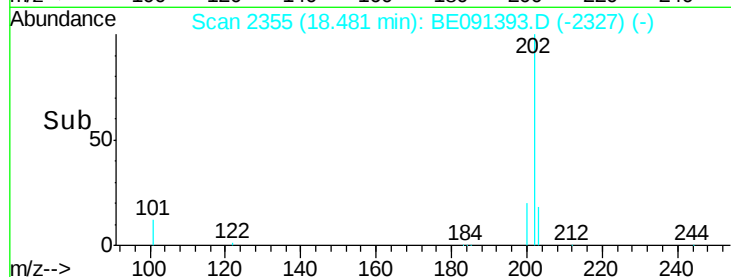
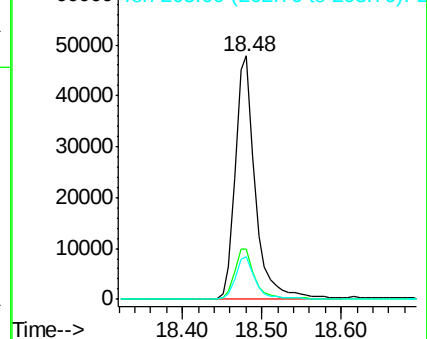
203 17.5 14.0 21.0



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



#20

Terphenyl-d14

Concen: 0.98 ng

RT: 18.62 min Scan# 2374

Delta R.T. 0.01 min

Lab File: BE091393.D

Acq: 4 Feb 2016 17:15

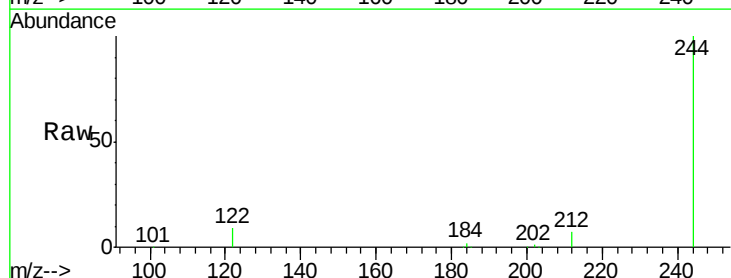
Tgt Ion:244 Resp: 58749

Ion Ratio Lower Upper

244 100

212 7.1 6.1 9.1

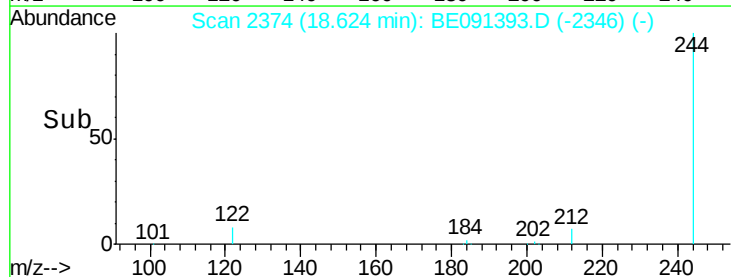
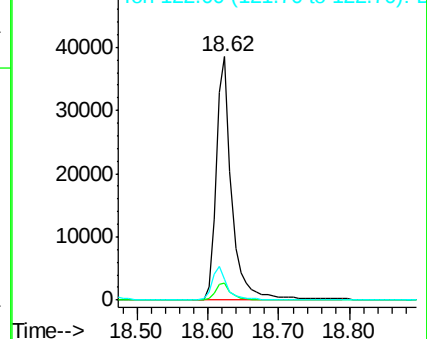
122 8.6 11.0 16.6#

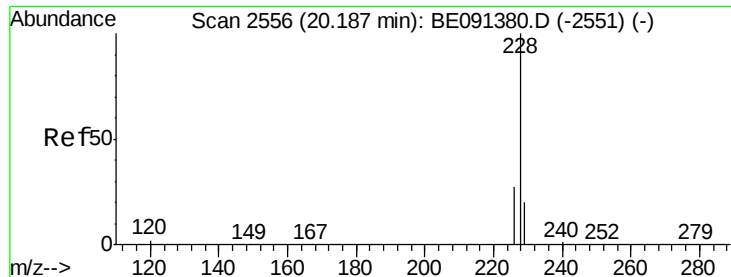


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#21

Benzo(a)anthracene

Concen: 0.89 ng

RT: 20.19 min Scan# 2557

Delta R.T. 0.00 min

Lab File: BE091393.D

Acq: 4 Feb 2016 17:15

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

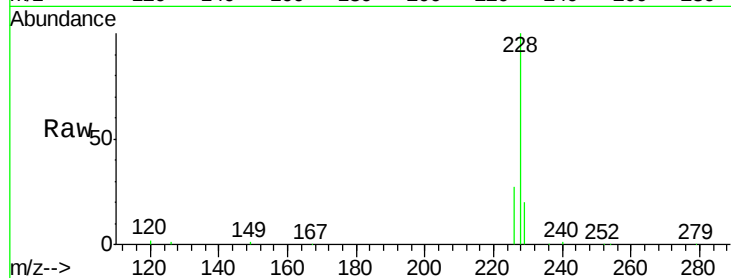
Tgt Ion:228 Resp: 67968

Ion Ratio Lower Upper

228 100

226 26.6 21.7 32.5

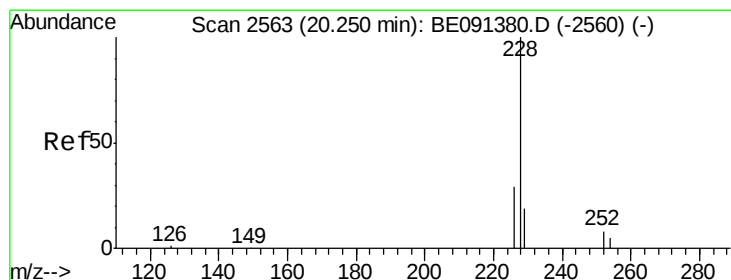
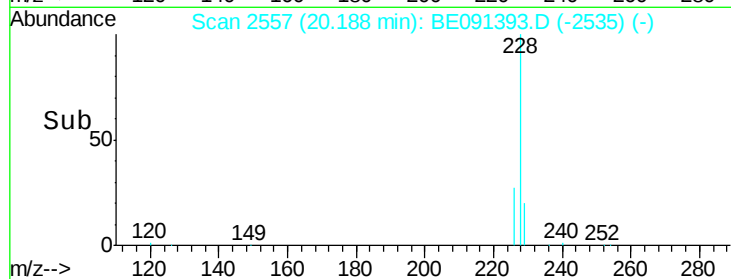
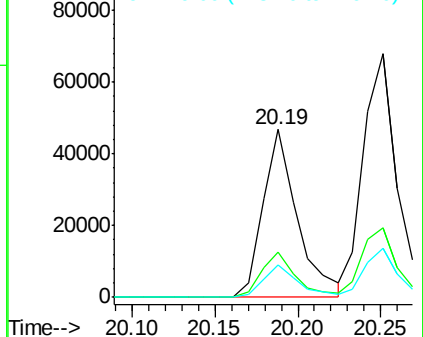
229 19.7 16.1 24.1



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



#22

Chrysene

Concen: 0.94 ng

RT: 20.25 min Scan# 2564

Delta R.T. 0.00 min

Lab File: BE091393.D

Acq: 4 Feb 2016 17:15

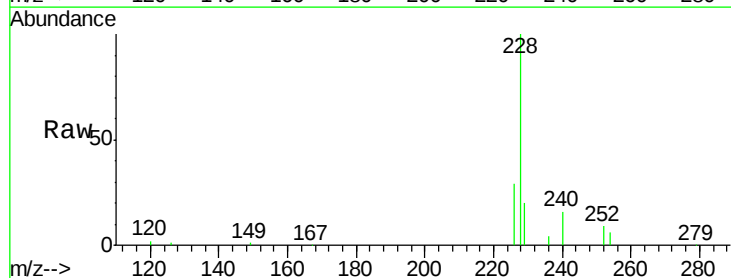
Tgt Ion:228 Resp: 101081

Ion Ratio Lower Upper

228 100

226 28.6 23.4 35.0

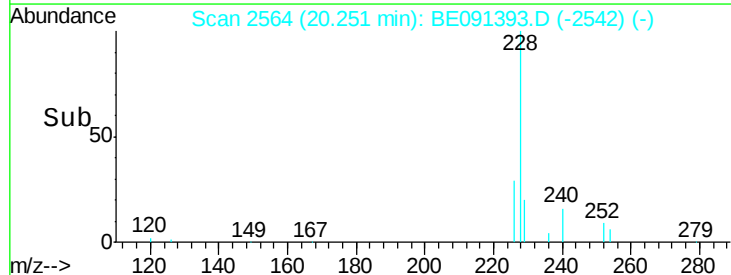
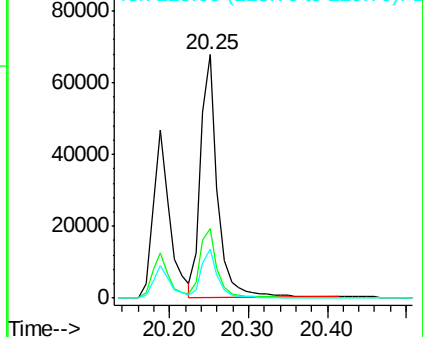
229 20.0 15.7 23.5

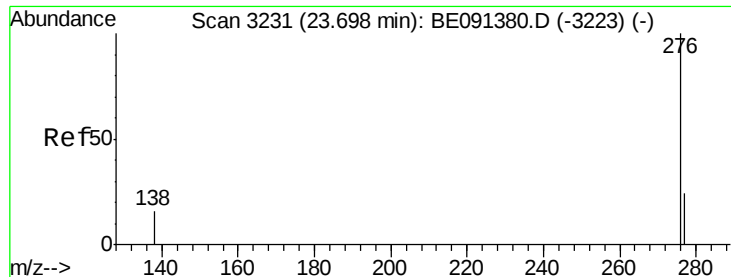


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#23

Indeno(1,2,3-cd)pyrene

Concen: 0.92 ng

RT: 23.70 min Scan# 3232

Delta R.T. 0.00 min

Lab File: BE091393.D

Acq: 4 Feb 2016 17:15

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

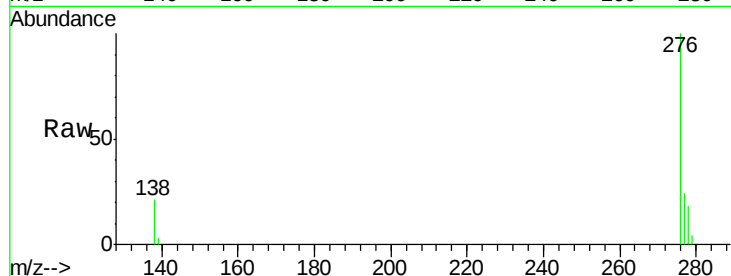
Tgt Ion:276 Resp: 72226

Ion Ratio Lower Upper

276 100

138 21.7 16.6 25.0

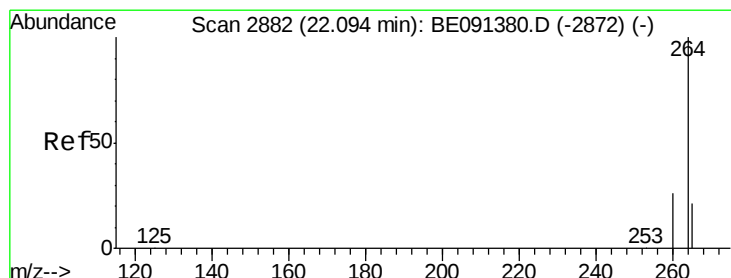
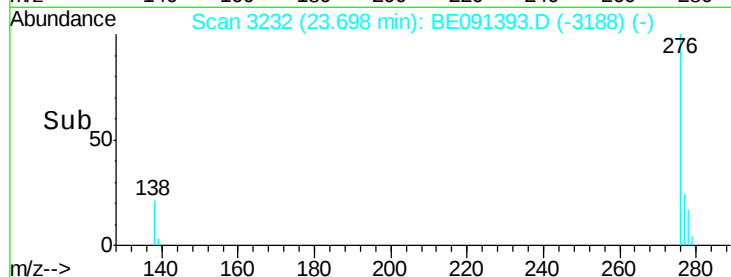
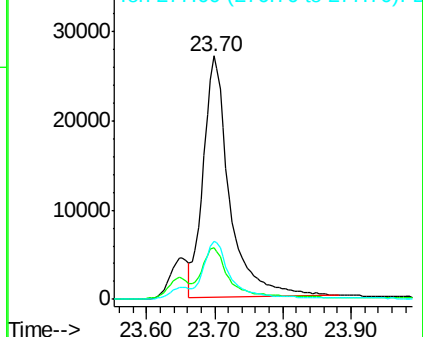
277 23.6 19.0 28.6



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



#24

Perylene-d12

Concen: 5.00 ng

RT: 22.10 min Scan# 2884

Delta R.T. 0.00 min

Lab File: BE091393.D

Acq: 4 Feb 2016 17:15

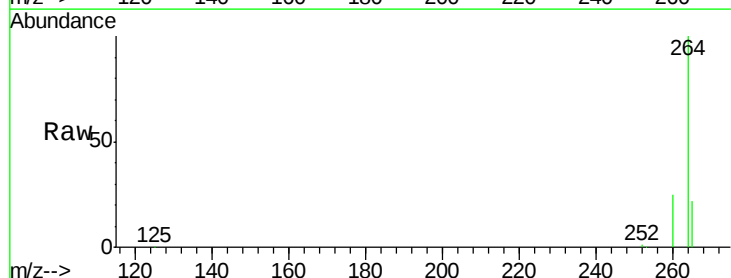
Tgt Ion:264 Resp: 381435

Ion Ratio Lower Upper

264 100

260 24.6 20.7 31.1

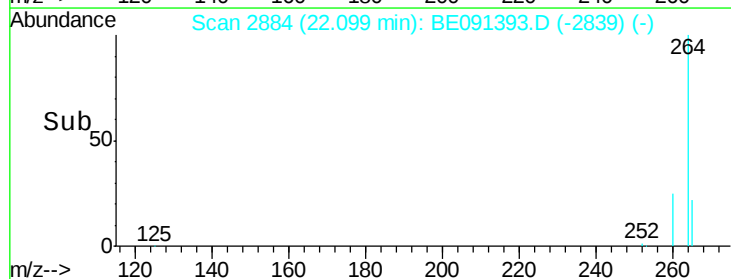
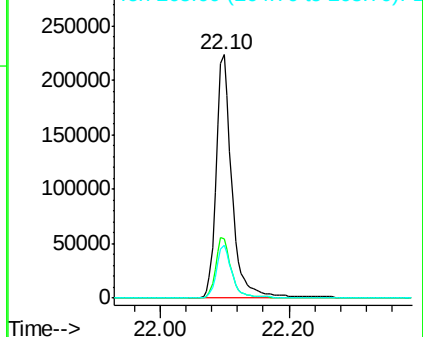
265 21.7 17.2 25.8

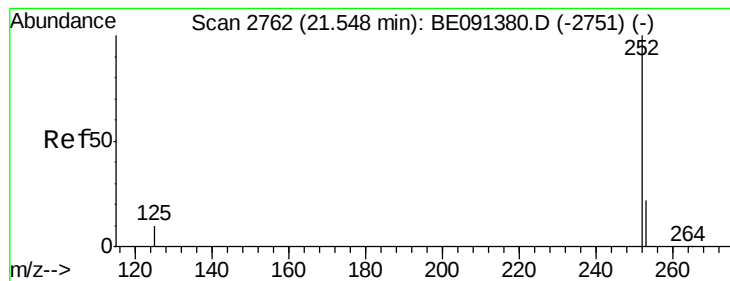


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#25

Benzo(b)fluoranthene

Concen: 0.92 ng

RT: 21.55 min Scan# 2763

Delta R.T. 0.00 min

Lab File: BE091393.D

Acq: 4 Feb 2016 17:15

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

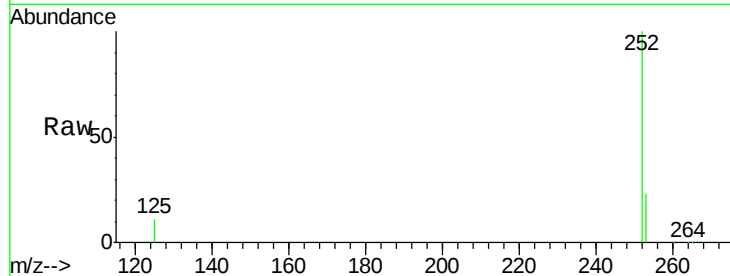
Tgt Ion:252 Resp: 75246

Ion Ratio Lower Upper

252 100

253 22.6 18.2 27.2

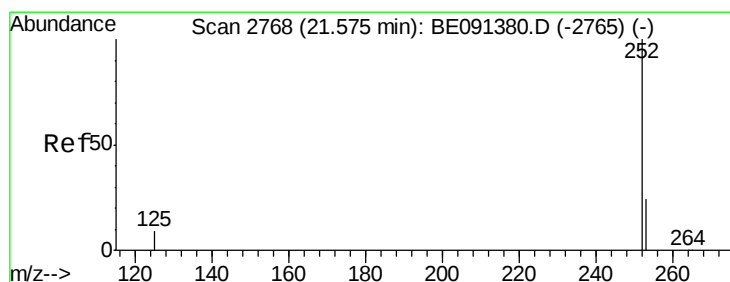
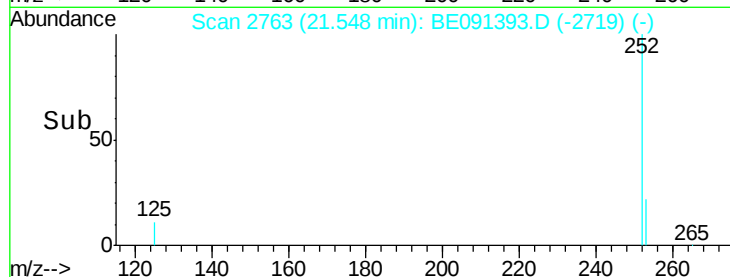
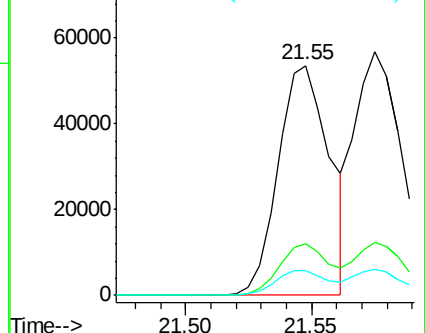
125 10.8 8.3 12.5



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#26

Benzo(k)fluoranthene

Concen: 0.92 ng

RT: 21.57 min Scan# 2769

Delta R.T. -0.00 min

Lab File: BE091393.D

Acq: 4 Feb 2016 17:15

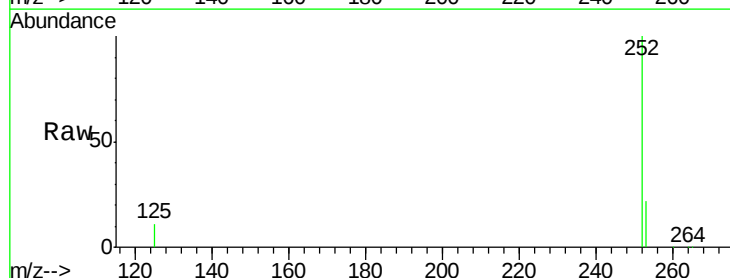
Tgt Ion:252 Resp: 86380

Ion Ratio Lower Upper

252 100

253 21.8 18.1 27.1

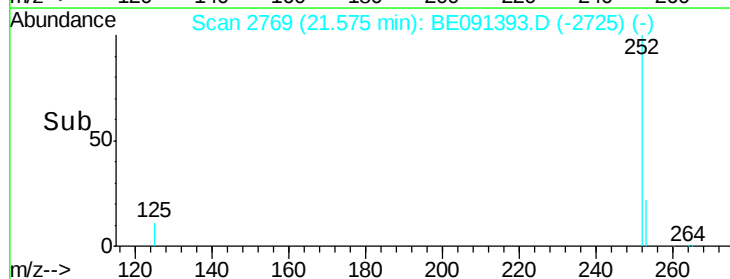
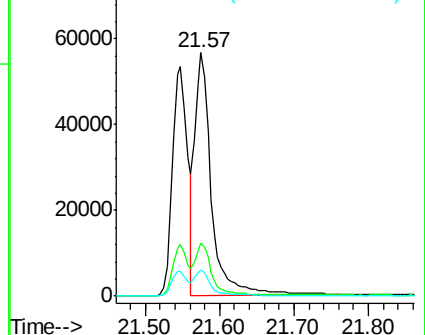
125 10.8 8.2 12.4



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#27

Benzo(a)pyrene

Concen: 0.90 ng

RT: 22.00 min Scan# 2863

Delta R.T. -0.00 min

Lab File: BE091393.D

Acq: 4 Feb 2016 17:15

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

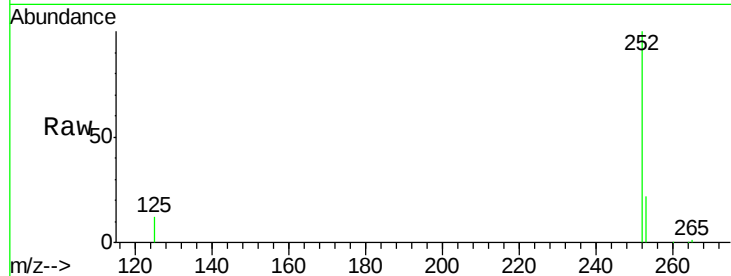
Tgt Ion:252 Resp: 66016

Ion Ratio Lower Upper

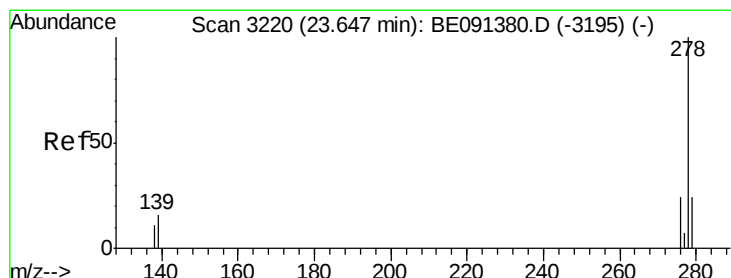
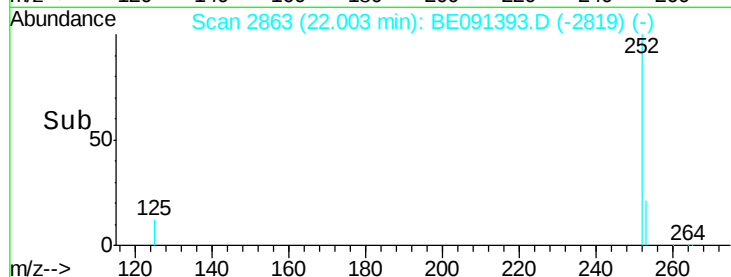
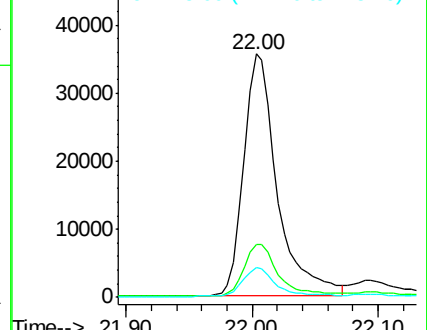
252 100

253 21.9 17.5 26.3

125 12.1 9.4 14.0



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#28

Dibenzo(a,h)anthracene

Concen: 0.93 ng

RT: 23.65 min Scan# 3222

Delta R.T. 0.01 min

Lab File: BE091393.D

Acq: 4 Feb 2016 17:15

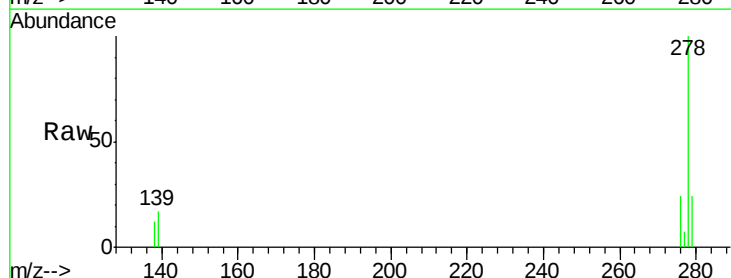
Tgt Ion:278 Resp: 61901

Ion Ratio Lower Upper

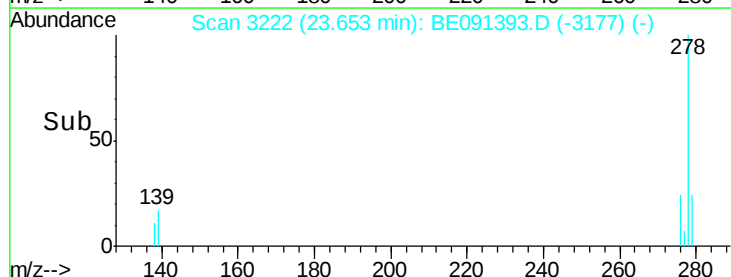
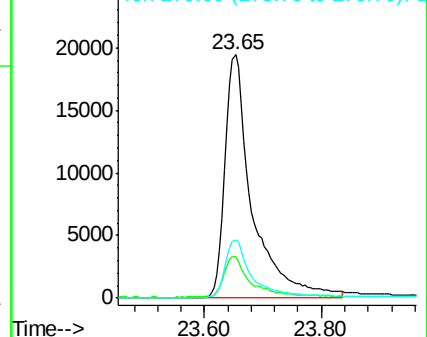
278 100

139 17.0 13.0 19.4

279 24.0 19.2 28.8



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





#29

Benzo(g,h,i)perylene

Concen: 0.93 ng

RT: 24.25 min Scan# 3353

Delta R.T. 0.01 min

Lab File: BE091393.D

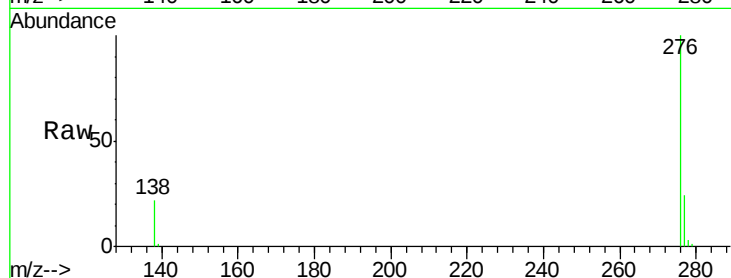
Acq: 4 Feb 2016 17:15

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC



Tgt Ion: 276 Resp: 76499

Ion Ratio Lower Upper

276 100

277 23.8 18.9 28.3

138 22.0 17.0 25.6

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

