

Data Path : Z:\HPCHEM1\BNA E\DATA\BE011516\
 Data File : BE091374.D
 Acq On : 15 Jan 2016 11:11
 Operator : UM/IZ
 Sample : SSTDCCC001
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001EC

Quant Time: Jan 16 05:04:15 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE011416.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 15 15:14:26 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	22830	5.00	ng	0.00
4) Naphthalene-d8	9.55	136	105342	5.00	ng	0.00
8) Acenaphthene-d10	13.35	164	52324	5.00	ng	0.00
14) Phenanthrene-d10	16.08	188	145691	5.00	ng	0.00
18) Chrysene-d12	20.21	240	154552	5.00	ng	0.00
24) Perylene-d12	22.10	264	126254	5.00	ng	0.00

System Monitoring Compounds						
2) 2-Fluorophenol	4.93	112	3279	1.30	ng	0.00
3) Phenol-d6	6.56	99	5454	1.30	ng	-0.01
5) Nitrobenzene-d5	8.16	82	5849	0.95	ng	0.00
9) 2,4,6-Tribromophenol	14.89	330	938	0.98	ng	0.00
10) 2-Fluorobiphenyl	12.01	172	11926	1.01	ng	0.00
20) Terphenyl-d14	18.62	244	15582	0.98	ng	0.00

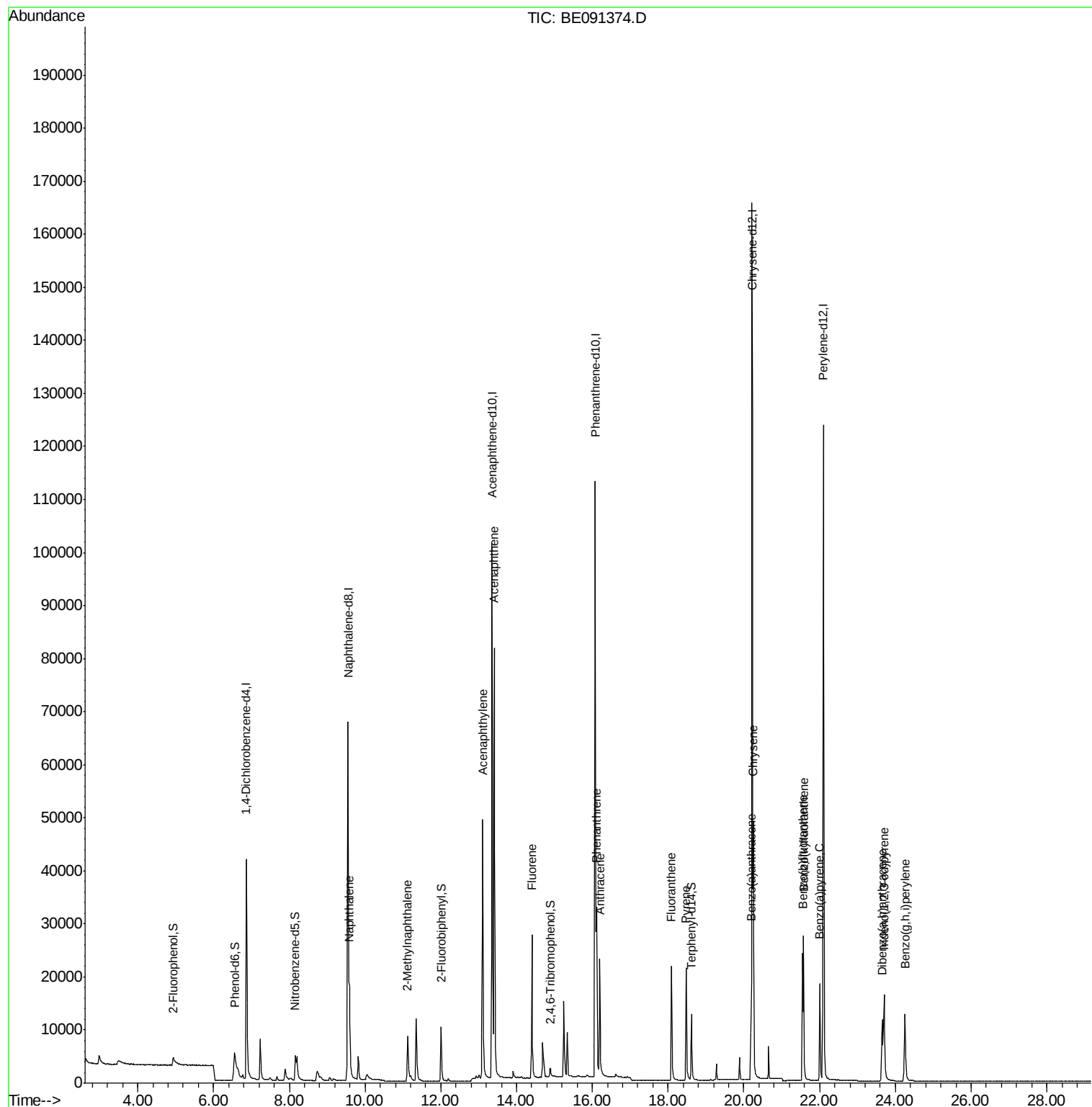
Target Compounds						Qvalue
6) Naphthalene	9.58	128	22605	1.01	ng	99
7) 2-Methylnaphthalene	11.12	142	8907	0.97	ng	94
11) Acenaphthylene	13.10	152	71978	0.97	ng	99
12) Acenaphthene	13.42	154	14862	1.00	ng	84
13) Fluorene	14.40	166	17998	0.98	ng	97
15) Phenanthrene	16.11	178	36127	1.00	ng	100
16) Anthracene	16.20	178	27482	0.99	ng	100
17) Fluoranthene	18.09	202	23846	0.87	ng	100
19) Pyrene	18.48	202	22489	0.94	ng	99
21) Benzo(a)anthracene	20.19	228	19961	0.94	ng	99
22) Chrysene	20.25	228	37812	1.01	ng	98
23) Indeno(1,2,3-cd)pyrene	23.70	276	22591	0.91	ng	95
25) Benzo(b)fluoranthene	21.55	252	23106	0.97	ng	100
26) Benzo(k)fluoranthene	21.58	252	28068	1.00	ng	99
27) Benzo(a)pyrene	22.01	252	20478	0.89	ng	99
28) Dibenzo(a,h)anthracene	23.65	278	17190	0.99	ng	99
29) Benzo(g,h,i)perylene	24.25	276	20884	0.97	ng	99

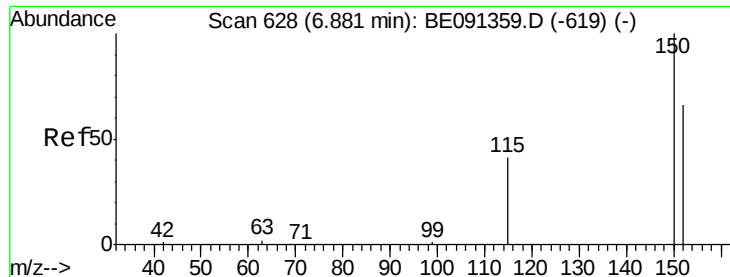
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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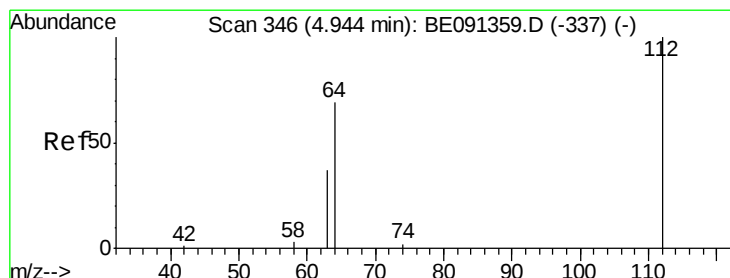
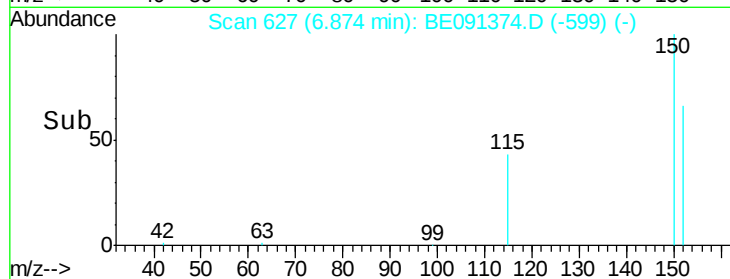
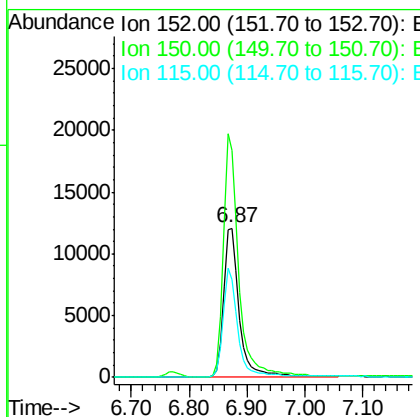
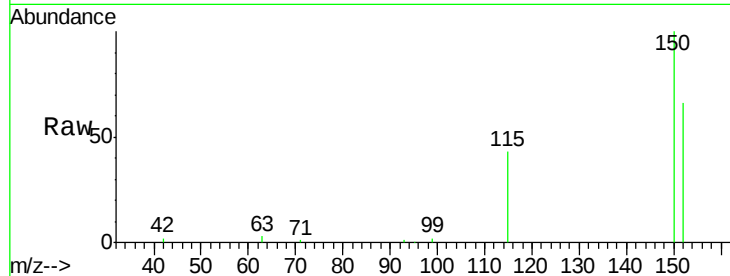




#1
 1,4-Dichlorobenzene-d4
 Concen: 5.00 ng
 RT: 6.87 min Scan# 627
 Delta R.T. -0.01 min
 Lab File: BE091374.D
 Acq: 15 Jan 2016 11:11

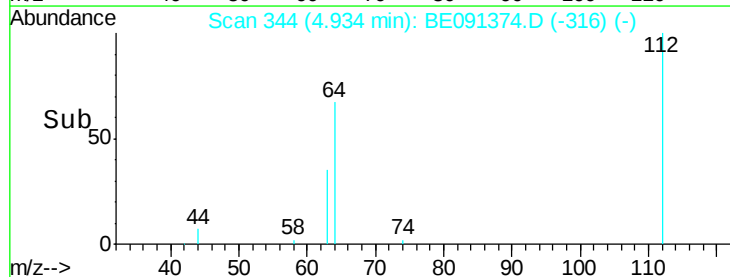
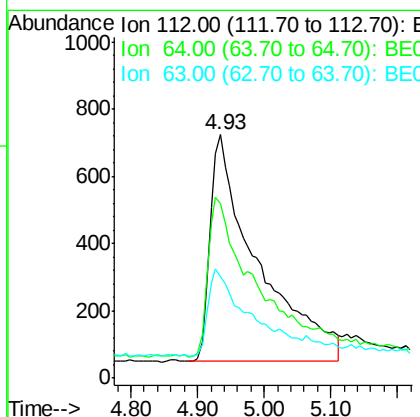
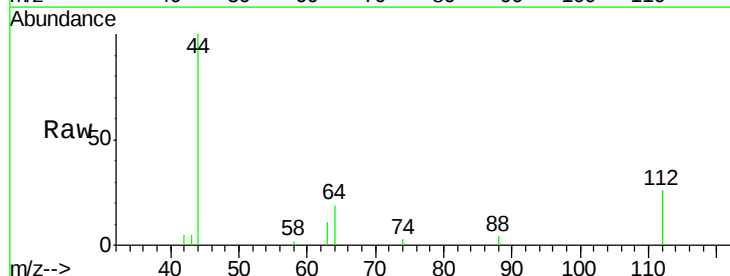
Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001EC

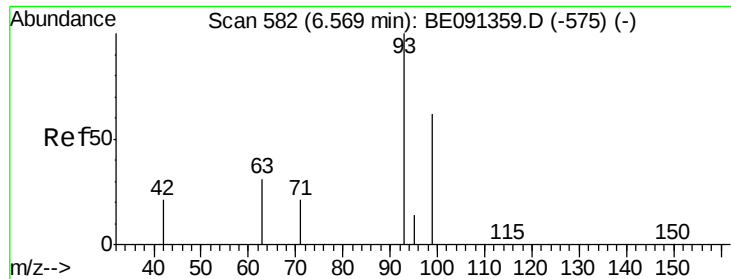
Tot Ion:152 Resp: 22830
 Ion Ratio Lower Upper
 152 100
 150 152.1 121.6 182.4
 115 65.3 50.6 75.8



#2
 2-Fluorophenol
 Concen: 1.30 ng
 RT: 4.93 min Scan# 344
 Delta R.T. -0.01 min
 Lab File: BE091374.D
 Acq: 15 Jan 2016 11:11

Tgt Ion:112 Resp: 3279
 Ion Ratio Lower Upper
 112 100
 64 74.0 57.4 86.0
 63 34.3 32.2 48.2





#3

Phenol-d6

Concen: 1.30 ng

RT: 6.56 min Scan# 580

Delta R.T. -0.01 min

Lab File: BE091374.D

Acq: 15 Jan 2016 11:11

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

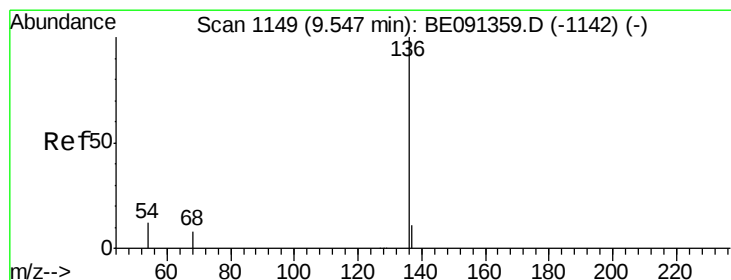
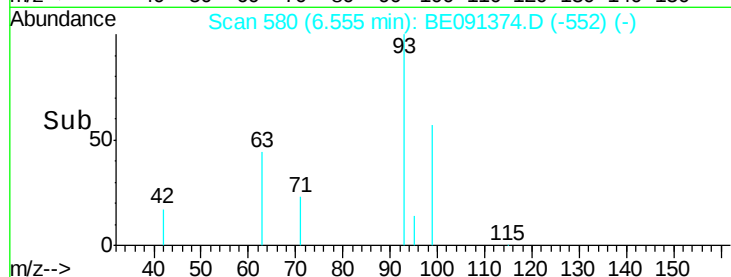
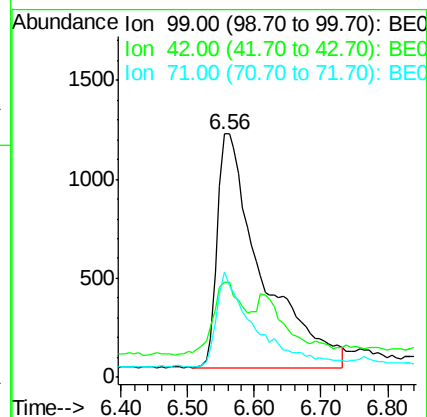
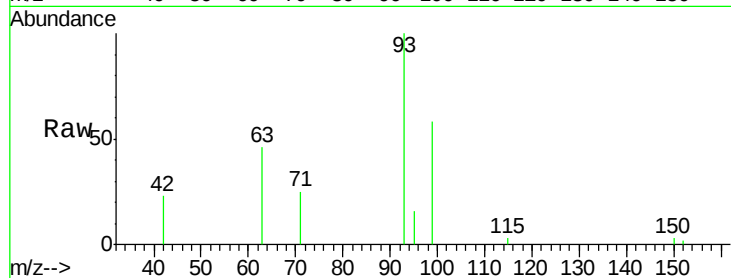
Tot Ion: 99 Resp: 5454

Ion Ratio Lower Upper

99 100

42 19.7 22.9 34.3#

71 34.8 35.4 53.2#



#4

Naphthalene-d8

Concen: 5.00 ng

RT: 9.55 min Scan# 1149

Delta R.T. -0.00 min

Lab File: BE091374.D

Acq: 15 Jan 2016 11:11

Tgt Ion: 136 Resp: 105342

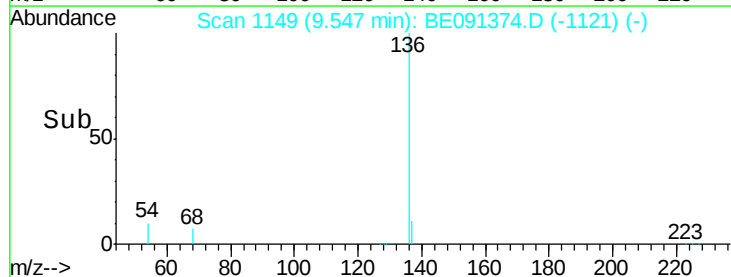
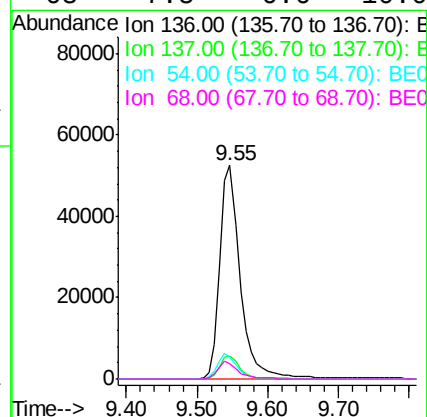
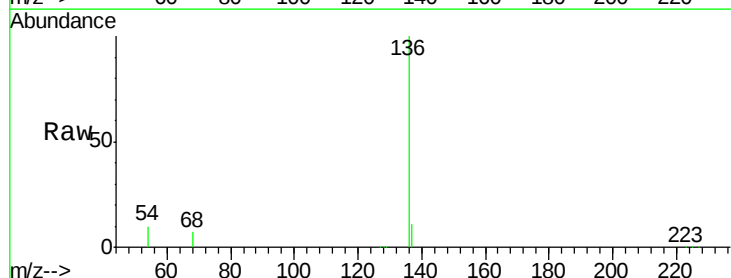
Ion Ratio Lower Upper

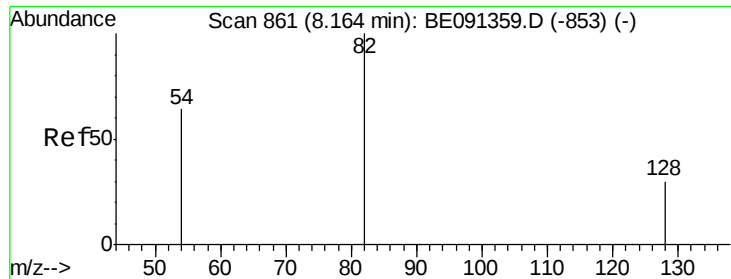
136 100

137 11.1 8.7 13.1

54 10.4 9.8 14.6

68 7.5 6.6 10.0





#5

Nitrobenzene-d5

Concen: 0.95 ng

RT: 8.16 min Scan# 860

Delta R.T. -0.00 min

Lab File: BE091374.D

Acq: 15 Jan 2016 11:11

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

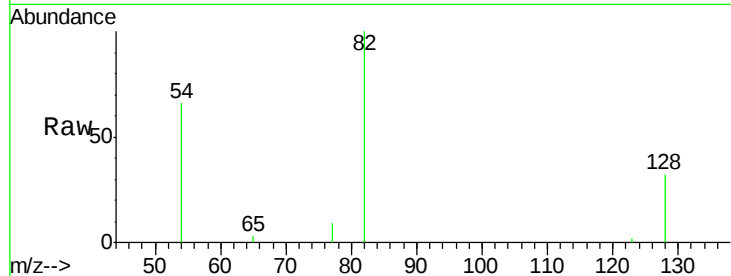
Tot Ion: 82 Resp: 5849

Ion Ratio Lower Upper

82 100

128 32.0 24.6 36.8

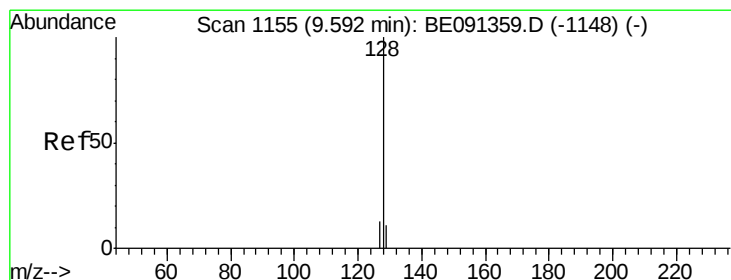
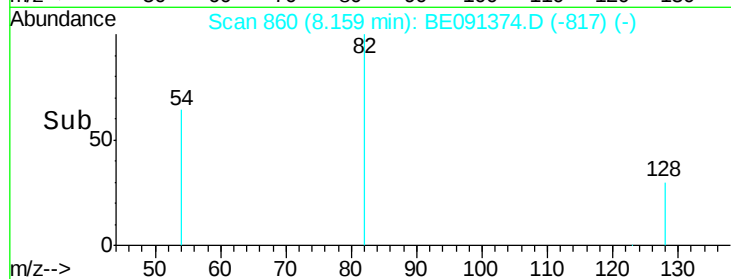
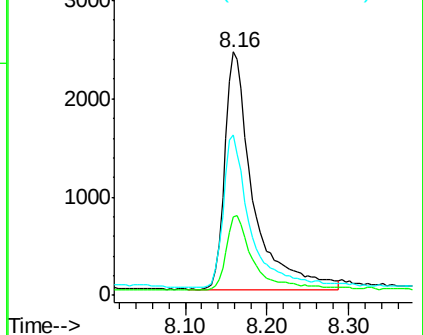
54 65.7 52.7 79.1



Abundance Ion 82.00 (81.70 to 82.70): BE091359.D (-853) (-)

Ion 128.00 (127.70 to 128.70): BE091359.D (-853) (-)

Ion 54.00 (53.70 to 54.70): BE091359.D (-853) (-)



#6

Naphthalene

Concen: 1.01 ng

RT: 9.58 min Scan# 1154

Delta R.T. -0.01 min

Lab File: BE091374.D

Acq: 15 Jan 2016 11:11

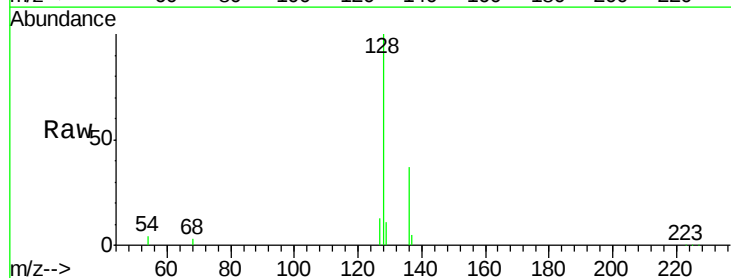
Tgt Ion: 128 Resp: 22605

Ion Ratio Lower Upper

128 100

129 11.4 9.3 13.9

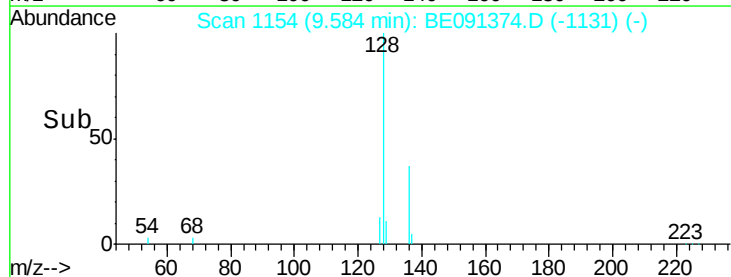
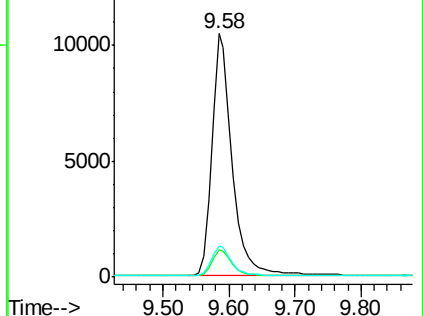
127 12.8 10.6 15.8

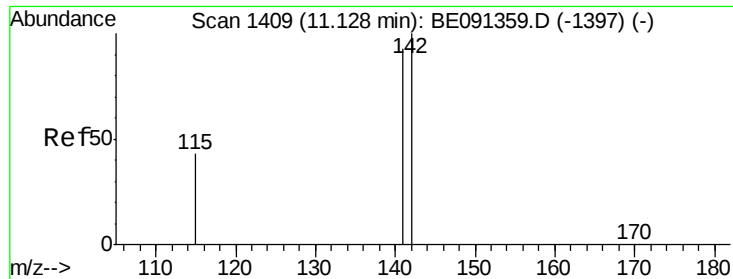


Abundance Ion 128.00 (127.70 to 128.70): BE091359.D (-1148) (-)

Ion 129.00 (128.70 to 129.70): BE091359.D (-1148) (-)

Ion 127.00 (126.70 to 127.70): BE091359.D (-1148) (-)





#7

2-Methylnaphthalene

Concen: 0.97 ng

RT: 11.12 min Scan# 1408

Delta R.T. -0.00 min

Lab File: BE091374.D

Acq: 15 Jan 2016 11:11

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

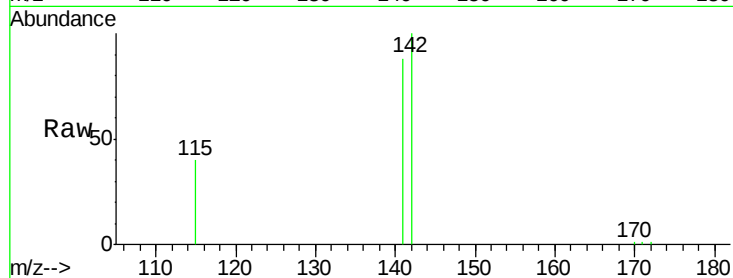
Tot Ion:142 Resp: 8907

Ion Ratio Lower Upper

142 100

141 87.8 74.5 111.7

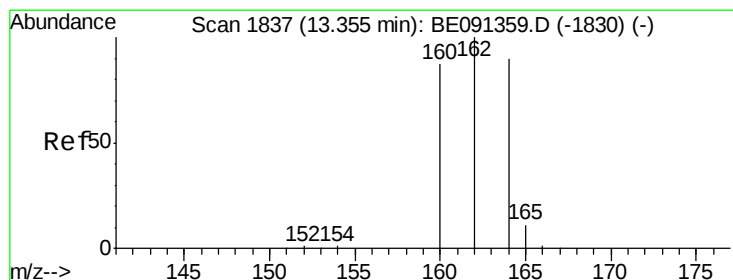
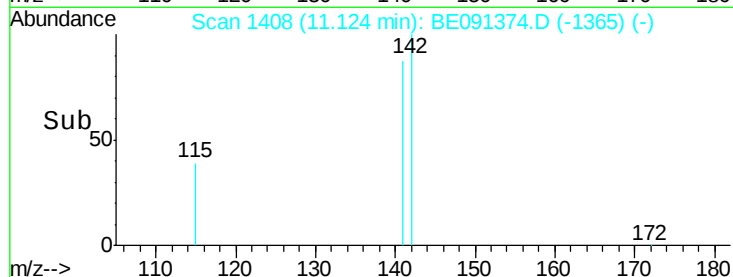
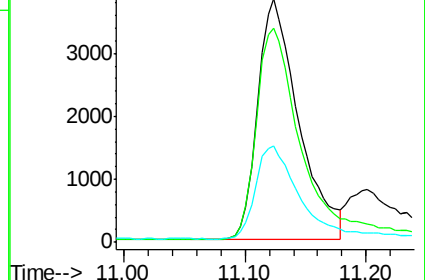
115 39.6 35.2 52.8



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: 13.35 min Scan# 1837

Delta R.T. 0.00 min

Lab File: BE091374.D

Acq: 15 Jan 2016 11:11

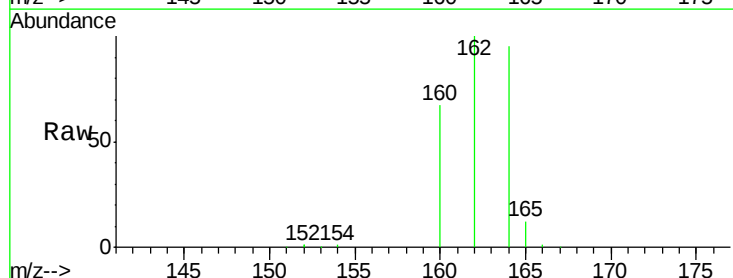
Tgt Ion:164 Resp: 52324

Ion Ratio Lower Upper

164 100

162 105.6 88.5 132.7

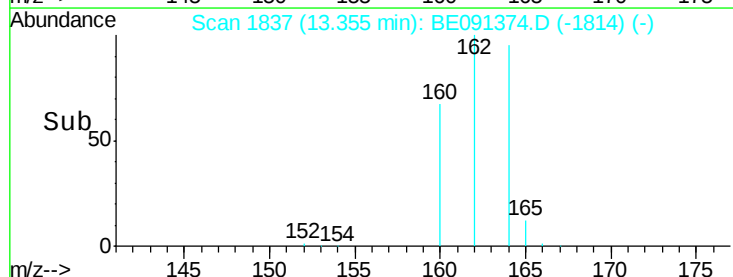
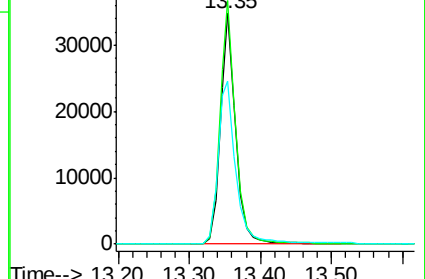
160 70.6 76.7 115.1#

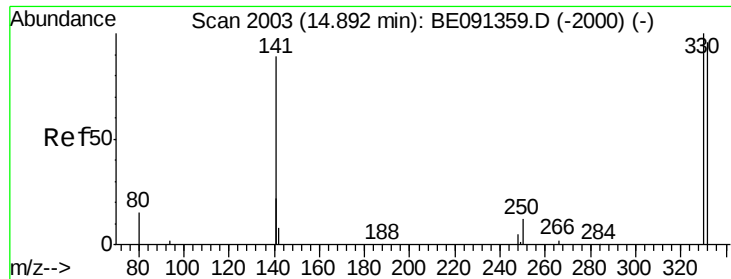


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2,4,6-Tribromophenol

Concen: 0.98 ng

RT: 14.89 min Scan# 2003

Delta R.T. 0.00 min

Lab File: BE091374.D

Acq: 15 Jan 2016 11:11

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

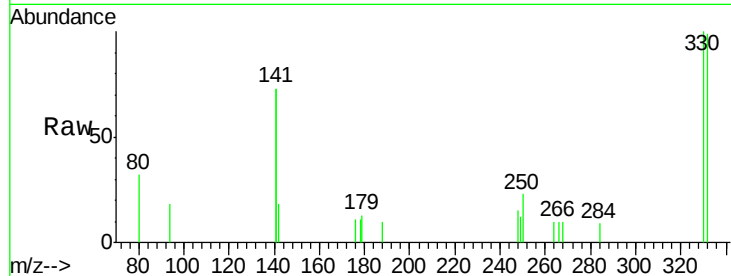
Tot Ion:330 Resp: 938

Ion Ratio Lower Upper

330 100

332 96.4 78.6 118.0

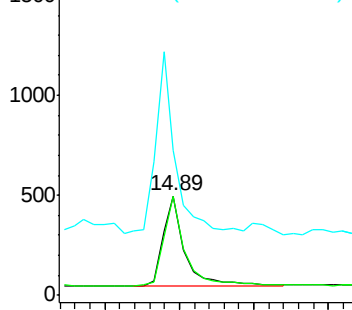
141 173.9 147.8 221.8



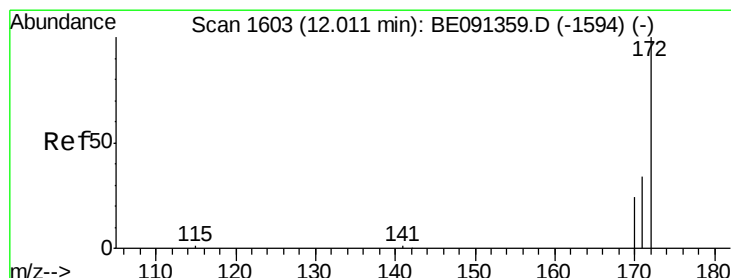
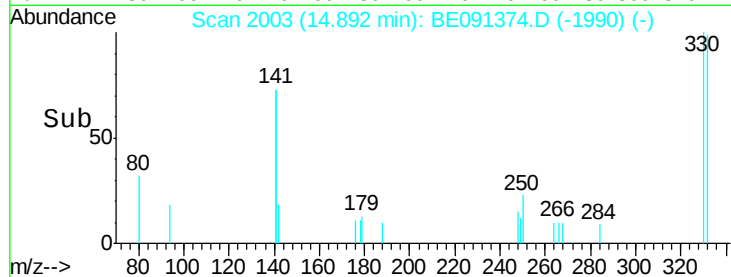
Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



Time-->



#10

2-Fluorobiphenyl

Concen: 1.01 ng

RT: 12.01 min Scan# 1602

Delta R.T. -0.00 min

Lab File: BE091374.D

Acq: 15 Jan 2016 11:11

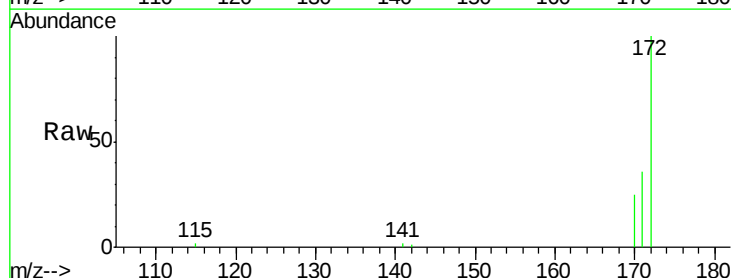
Tgt Ion:172 Resp: 11926

Ion Ratio Lower Upper

172 100

171 35.7 27.3 40.9

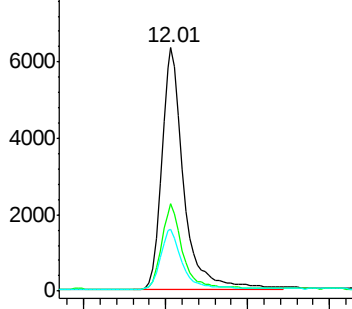
170 25.4 19.8 29.6



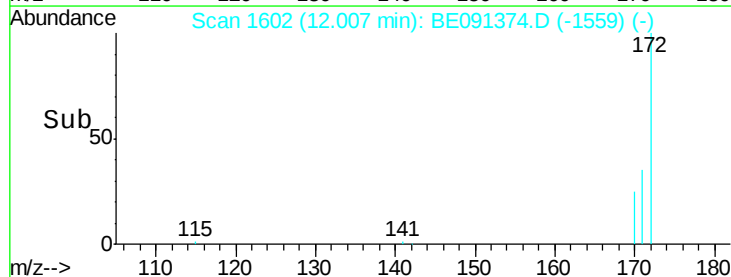
Abundance Ion 172.00 (171.70 to 172.70): E

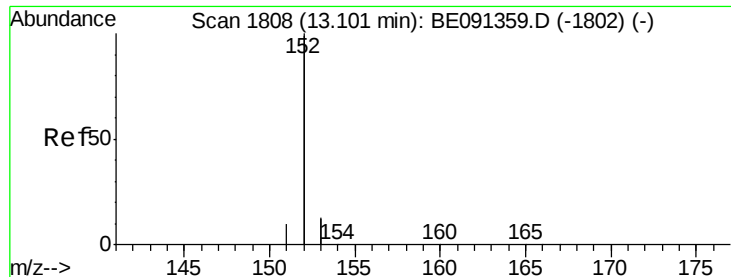
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



Time-->





#11

Acenaphthylene

Concen: 0.97 ng

RT: 13.10 min Scan# 1808

Delta R.T. 0.00 min

Lab File: BE091374.D

Acq: 15 Jan 2016 11:11

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

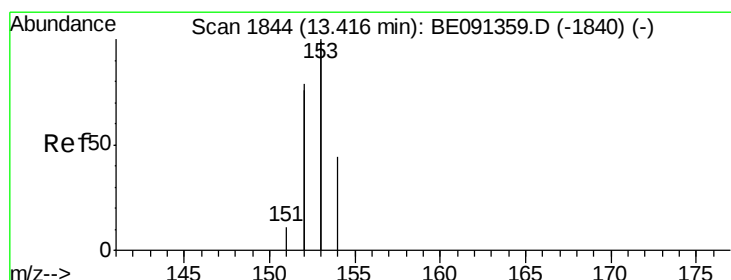
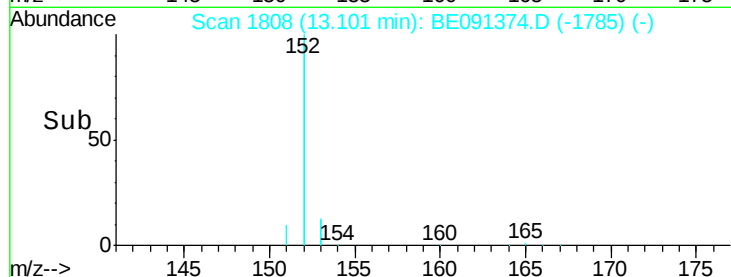
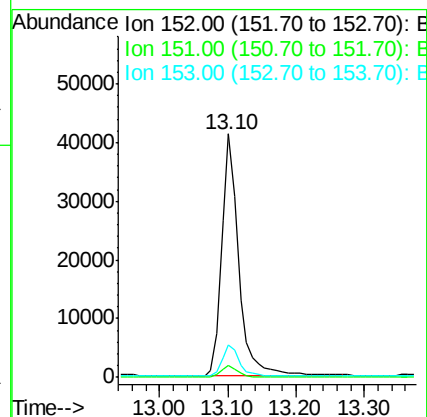
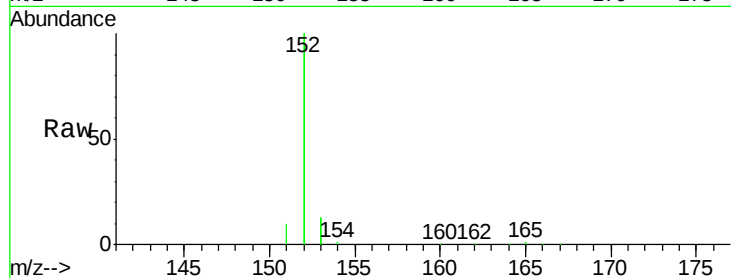
Tot Ion:152 Resp: 71978

Ion Ratio Lower Upper

152 100

151 4.8 3.8 5.8

153 12.9 10.1 15.1



#12

Acenaphthene

Concen: 1.00 ng

RT: 13.42 min Scan# 1844

Delta R.T. 0.00 min

Lab File: BE091374.D

Acq: 15 Jan 2016 11:11

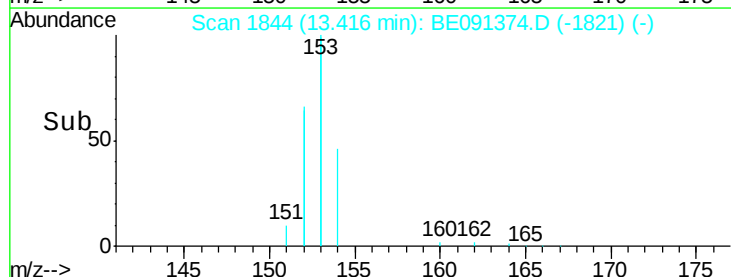
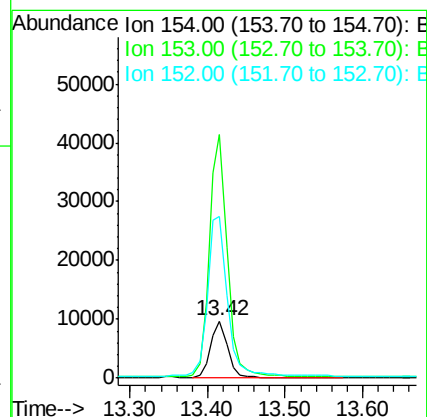
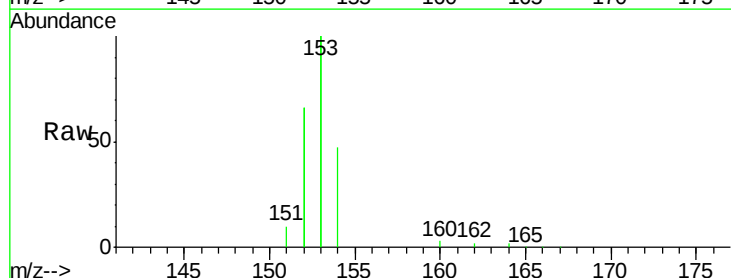
Tgt Ion:154 Resp: 14862

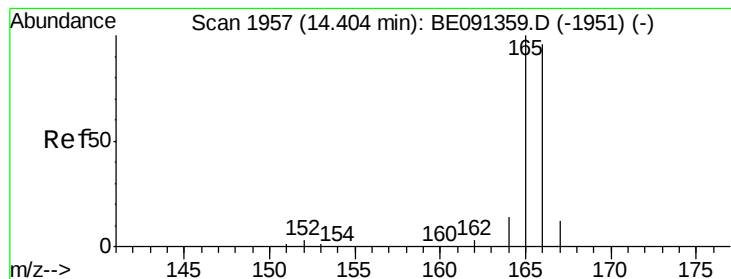
Ion Ratio Lower Upper

154 100

153 445.8 370.2 555.4

152 325.7 310.5 465.7





#13

Fluorene

Concen: 0.98 ng

RT: 14.40 min Scan# 1957

Delta R.T. 0.00 min

Lab File: BE091374.D

Acq: 15 Jan 2016 11:11

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

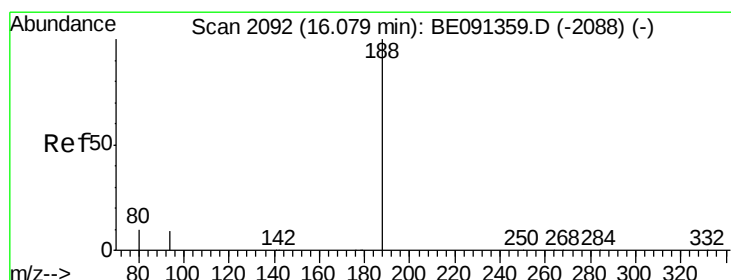
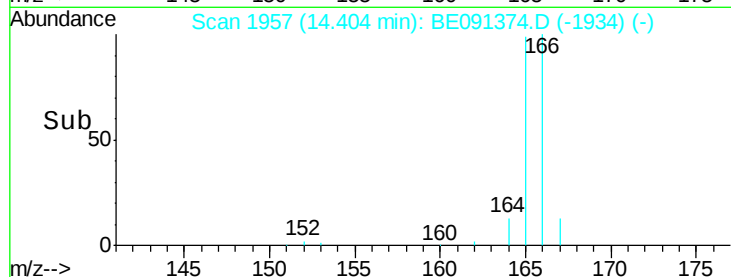
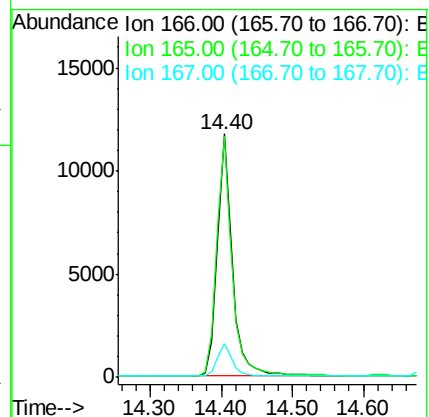
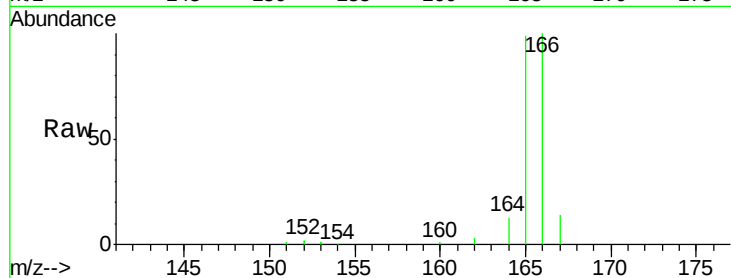
Tot Ion:166 Resp: 17998

Ion Ratio Lower Upper

166 100

165 100.9 83.0 124.6

167 13.5 11.1 16.7



#14

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.08 min Scan# 2092

Delta R.T. 0.00 min

Lab File: BE091374.D

Acq: 15 Jan 2016 11:11

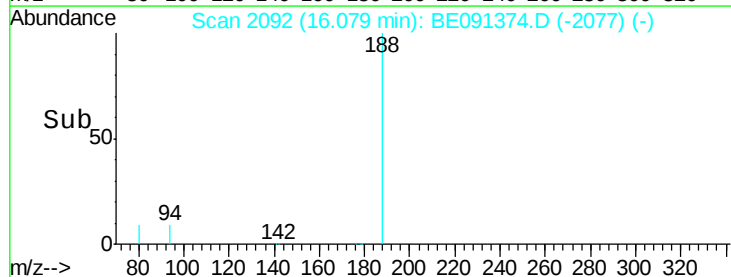
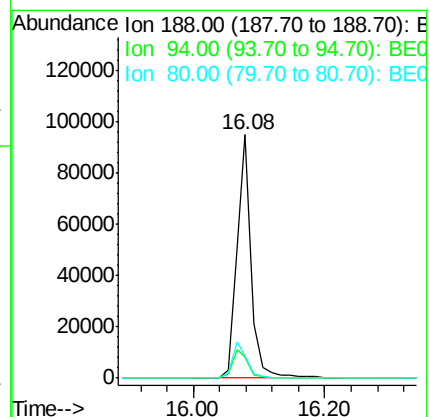
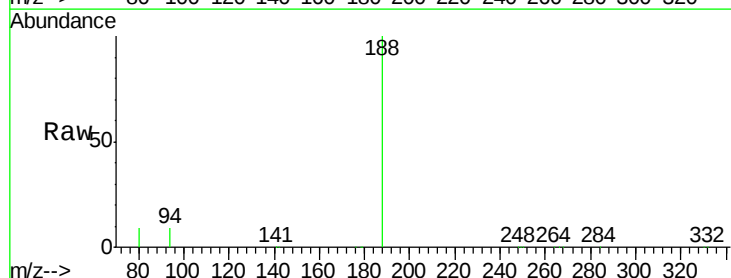
Tgt Ion:188 Resp: 145691

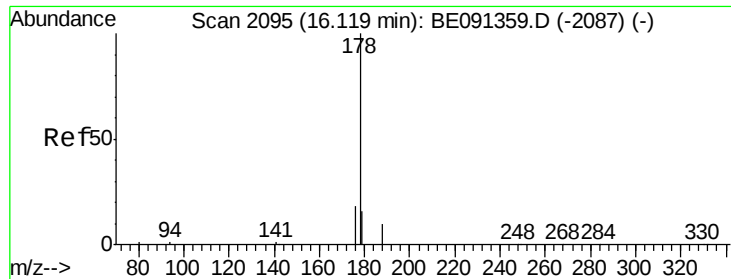
Ion Ratio Lower Upper

188 100

94 8.7 7.5 11.3

80 9.1 8.2 12.2





#15

Phenanthrene

Concen: 1.00 ng

RT: 16.11 min Scan# 2094

Delta R.T. -0.01 min

Lab File: BE091374.D

Acq: 15 Jan 2016 11:11

Instrument :

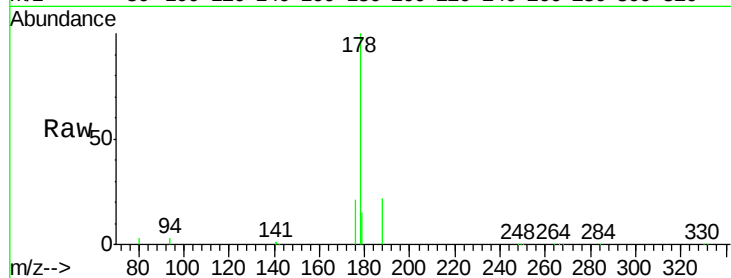
BNA_E

ClientSampleId :

SSTDCCC001EC

Tot Ion:178 Resp: 36127

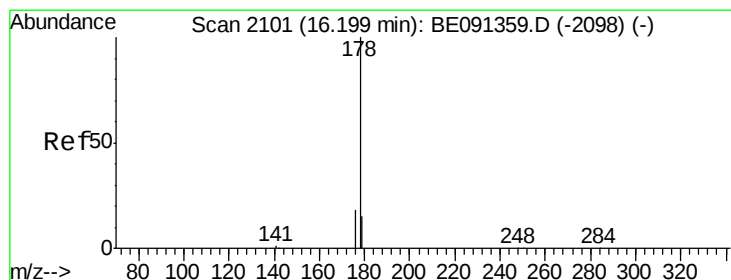
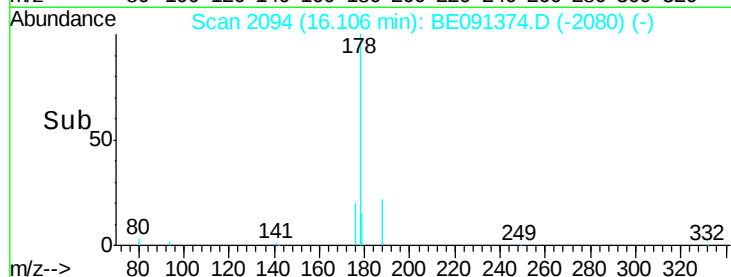
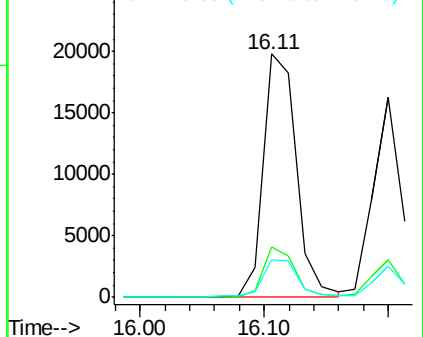
Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.4	23.2
179	15.8	12.8	19.2



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: 0.99 ng

RT: 16.20 min Scan# 2101

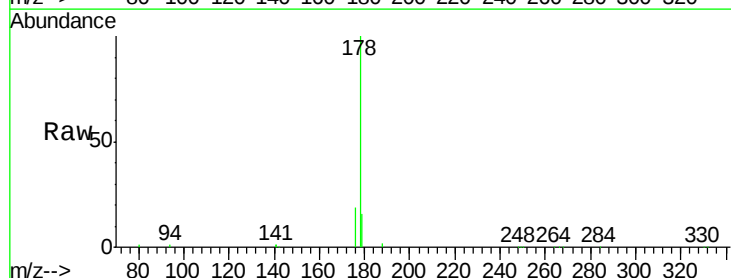
Delta R.T. 0.00 min

Lab File: BE091374.D

Acq: 15 Jan 2016 11:11

Tgt Ion:178 Resp: 27482

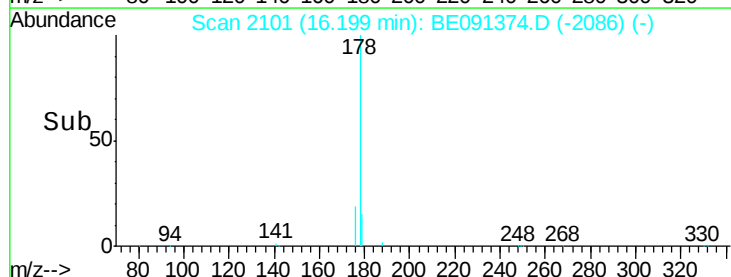
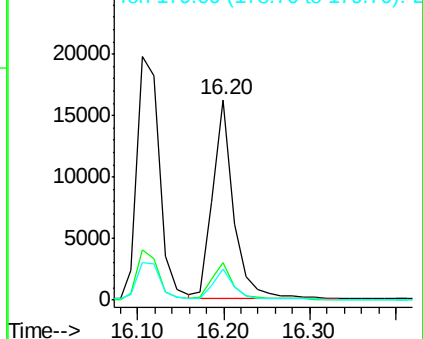
Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.0	22.6
179	15.6	12.4	18.6

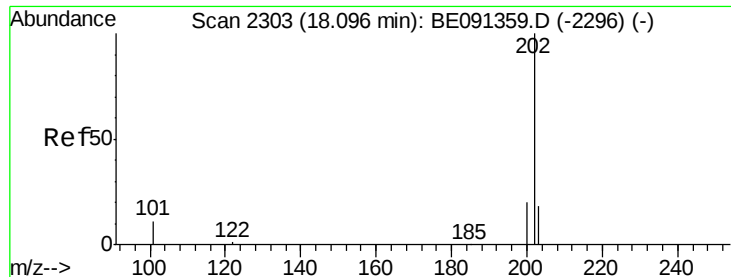


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

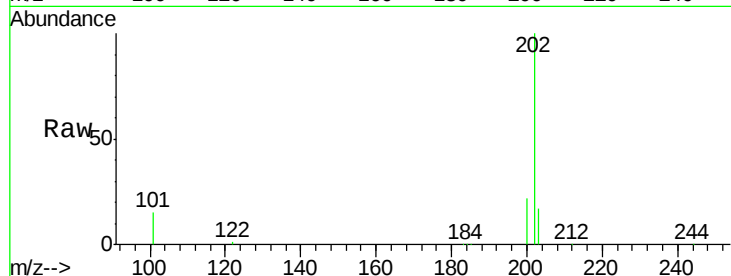




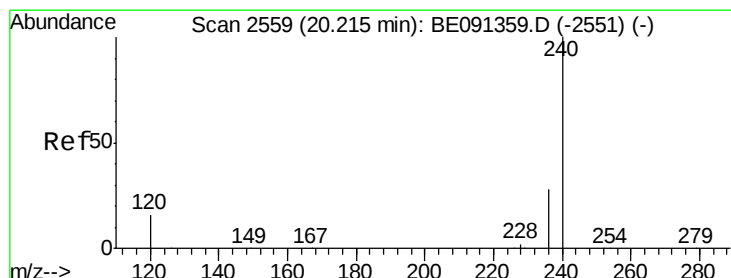
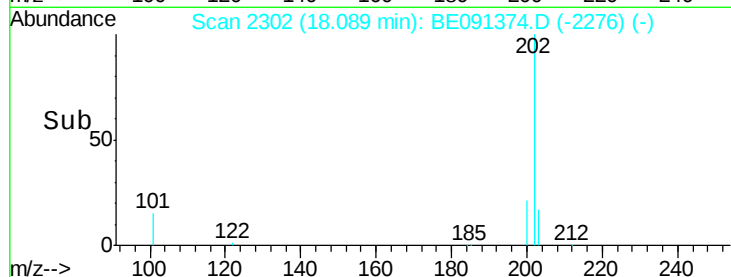
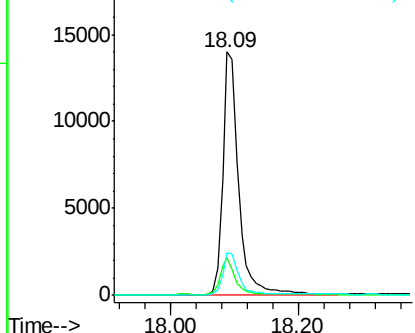
#17
 Fluoranthene
 Concen: 0.87 ng
 RT: 18.09 min Scan# 2302
 Delta R.T. -0.01 min
 Lab File: BE091374.D
 Acq: 15 Jan 2016 11:11

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001EC

Tot Ion:202 Resp: 23846
 Ion Ratio Lower Upper
 202 100
 101 14.0 11.0 16.4
 203 17.3 13.9 20.9

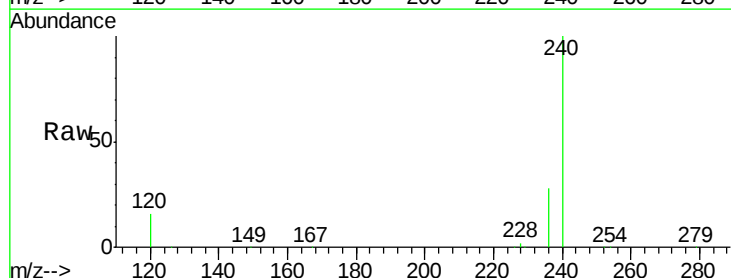


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

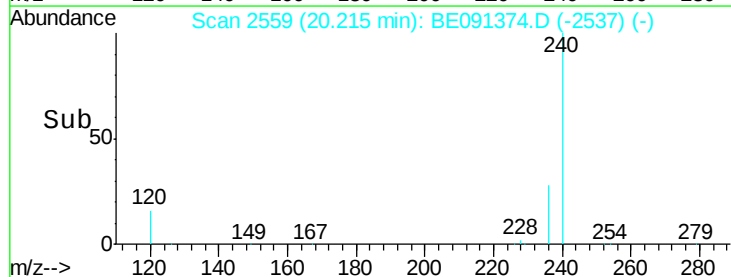
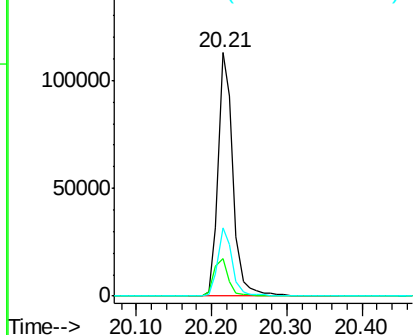


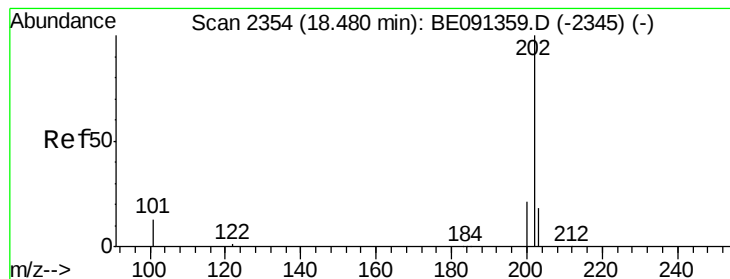
#18
 Chrysene-d12
 Concen: 5.00 ng
 RT: 20.21 min Scan# 2559
 Delta R.T. -0.00 min
 Lab File: BE091374.D
 Acq: 15 Jan 2016 11:11

Tgt Ion:240 Resp: 154552
 Ion Ratio Lower Upper
 240 100
 120 15.7 12.6 19.0
 236 27.8 22.7 34.1



Abundance Ion 240.00 (239.70 to 240.70): E
 Ion 120.00 (119.70 to 120.70): E
 Ion 236.00 (235.70 to 236.70): E





#19

Pvrene

Concen: 0.94 ng

RT: 18.48 min Scan# 2354

Delta R.T. 0.00 min

Lab File: BE091374.D

Acq: 15 Jan 2016 11:11

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

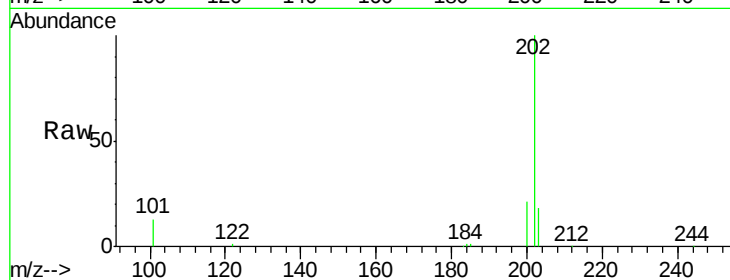
Tot Ion:202 Resp: 22489

Ion Ratio Lower Upper

202 100

200 20.9 17.2 25.8

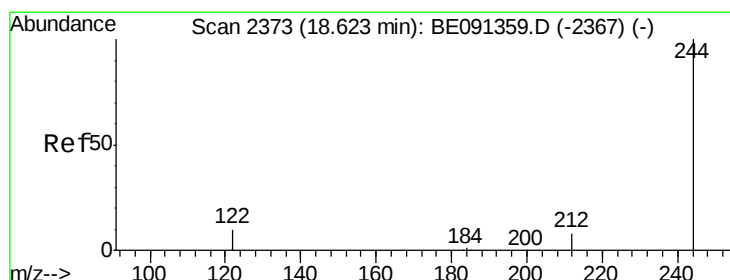
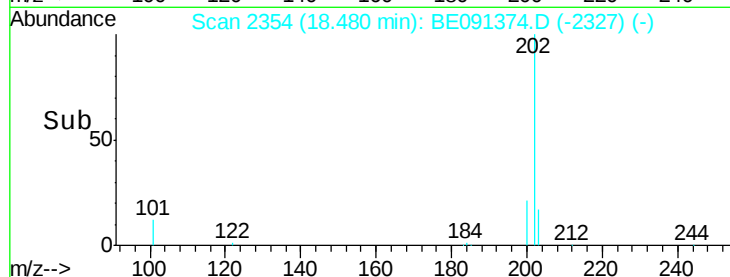
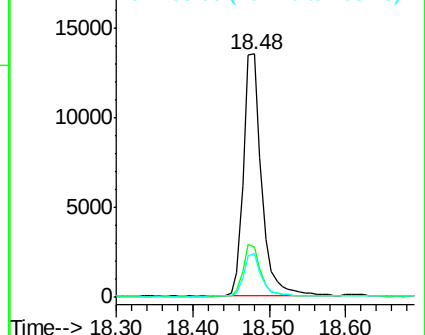
203 17.4 14.2 21.4



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# 2373

Delta R.T. 0.00 min

Lab File: BE091374.D

Acq: 15 Jan 2016 11:11

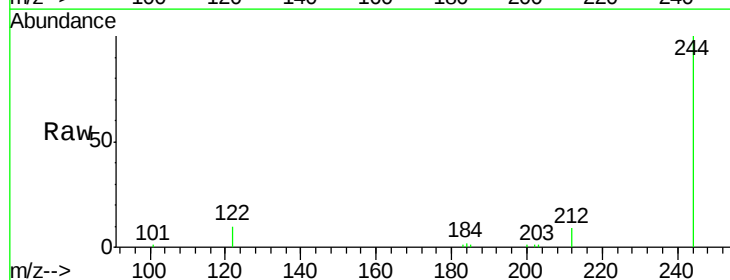
Tgt Ion:244 Resp: 15582

Ion Ratio Lower Upper

244 100

212 8.6 7.0 10.4

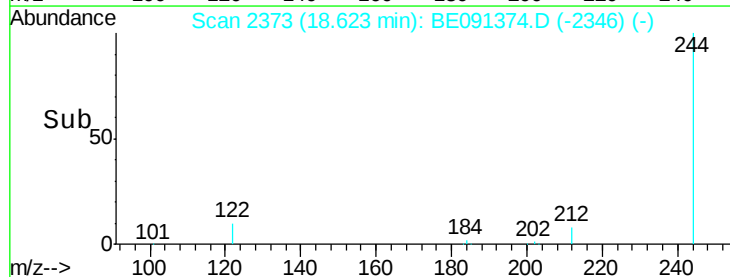
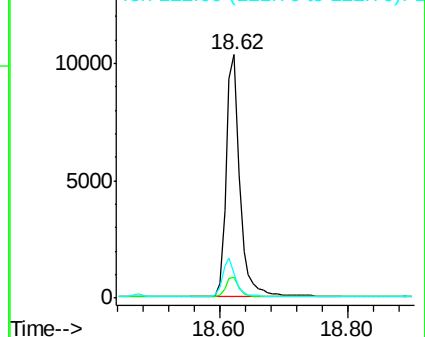
122 10.1 8.5 12.7

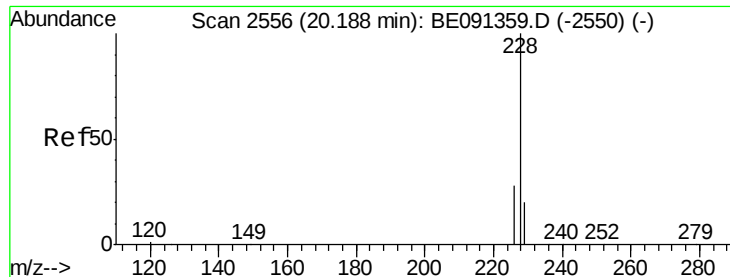


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

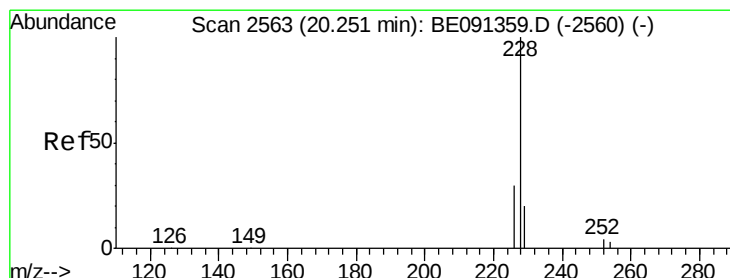
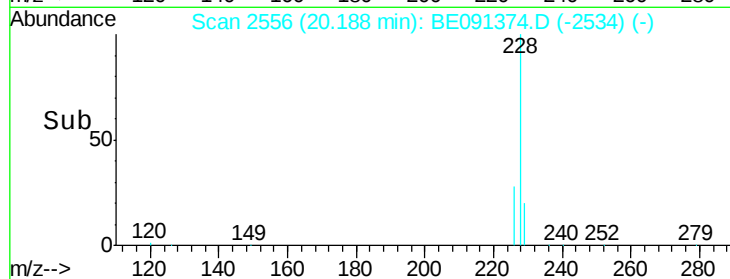
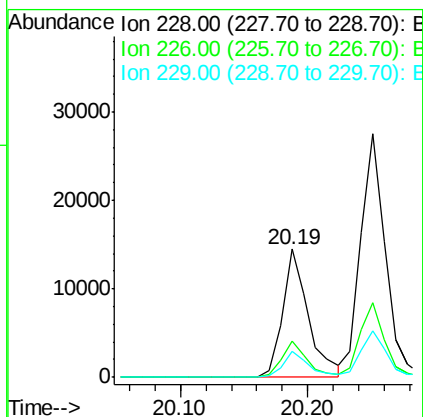
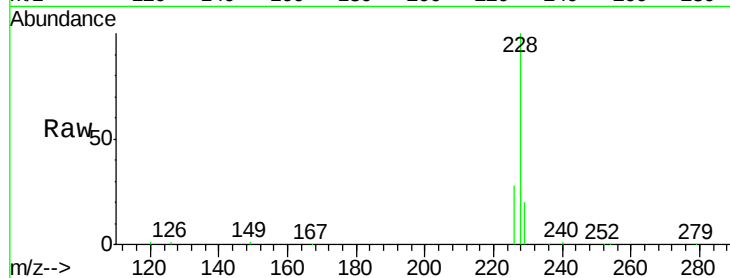




#21
Benzo(a)anthracene
Concen: 0.94 ng
RT: 20.19 min Scan# 2556
Delta R.T. 0.00 min
Lab File: BE091374.D
Acq: 15 Jan 2016 11:11

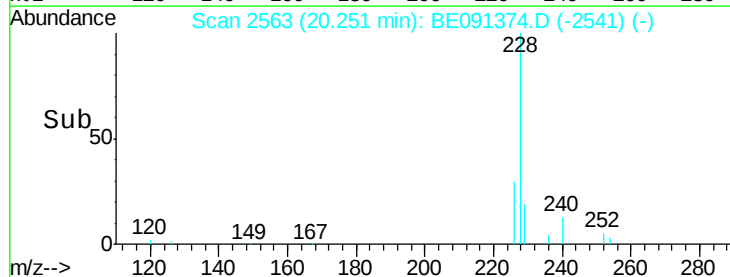
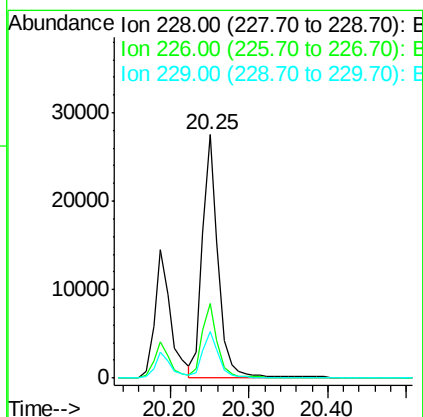
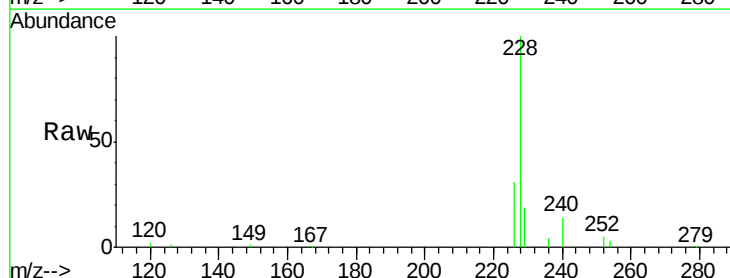
Instrument :
BNA_E
ClientSampleId :
SSTDCCC001EC

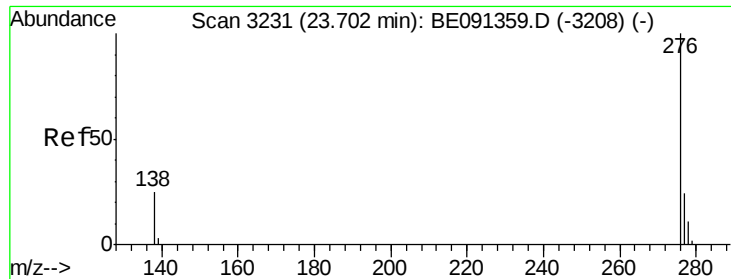
Tot Ion:228 Resp: 19961
Ion Ratio Lower Upper
228 100
226 28.0 22.5 33.7
229 19.8 16.2 24.4



#22
Chrysene
Concen: 1.01 ng
RT: 20.25 min Scan# 2563
Delta R.T. -0.00 min
Lab File: BE091374.D
Acq: 15 Jan 2016 11:11

Tgt Ion:228 Resp: 37812
Ion Ratio Lower Upper
228 100
226 30.5 23.7 35.5
229 19.2 16.0 24.0

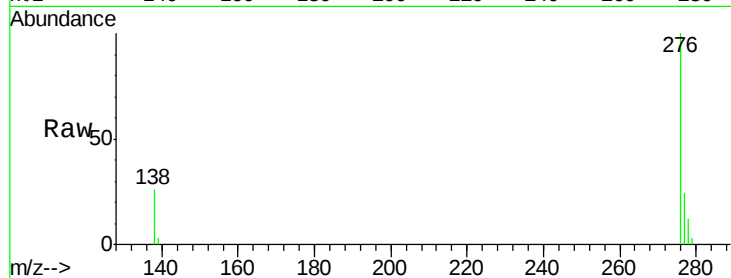




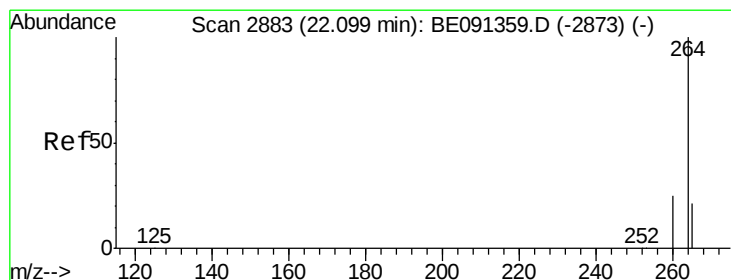
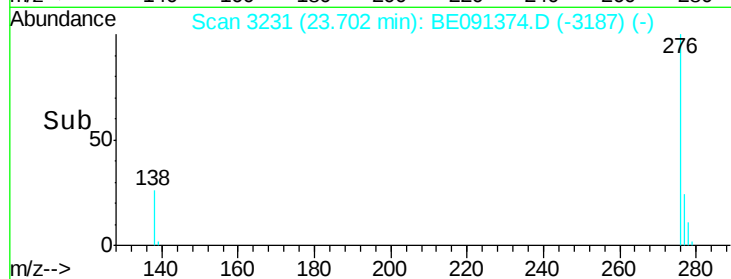
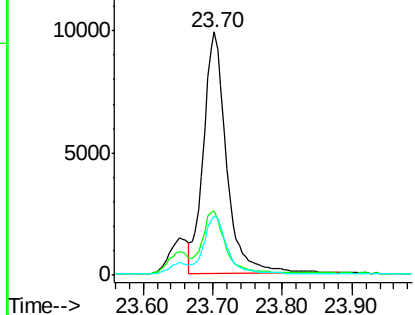
#23
Indeno(1,2,3-cd)pyrene
Concen: 0.91 ng
RT: 23.70 min Scan# 3231
Delta R.T. -0.00 min
Lab File: BE091374.D
Acq: 15 Jan 2016 11:11

Instrument :
BNA_E
ClientSampleId :
SSTDCCC001EC

Tot Ion:276 Resp: 22591
Ion Ratio Lower Upper
276 100
138 25.0 18.6 27.8
277 23.1 16.5 24.7

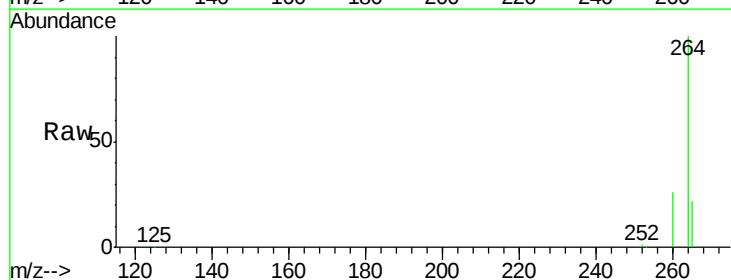


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

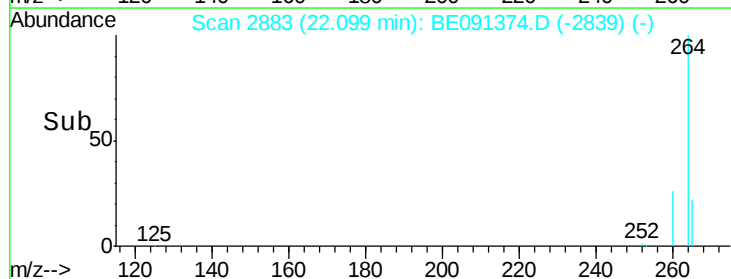
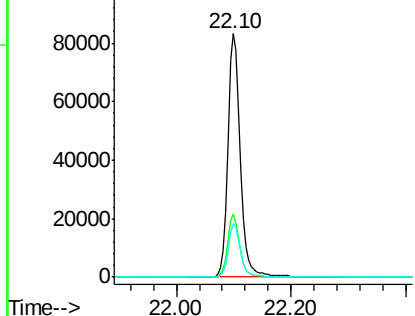


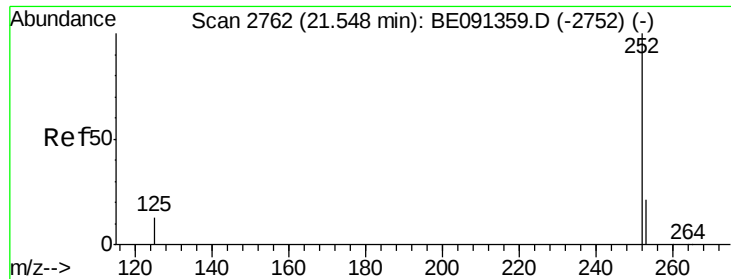
#24
Perylene-d12
Concen: 5.00 ng
RT: 22.10 min Scan# 2883
Delta R.T. 0.00 min
Lab File: BE091374.D
Acq: 15 Jan 2016 11:11

Tgt Ion:264 Resp: 126254
Ion Ratio Lower Upper
264 100
260 25.7 20.4 30.6
265 21.8 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: 0.97 ng

RT: 21.55 min Scan# 2762

Delta R.T. 0.00 min

Lab File: BE091374.D

Acq: 15 Jan 2016 11:11

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

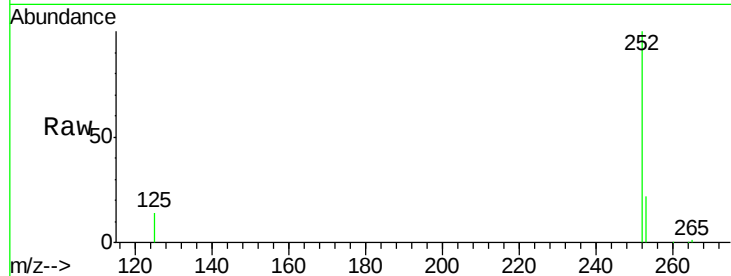
Tot Ion:252 Resp: 23106

Ion Ratio Lower Upper

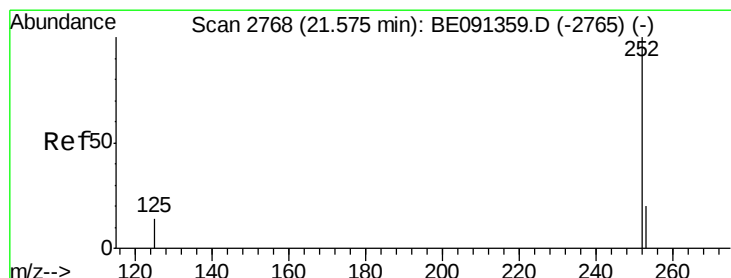
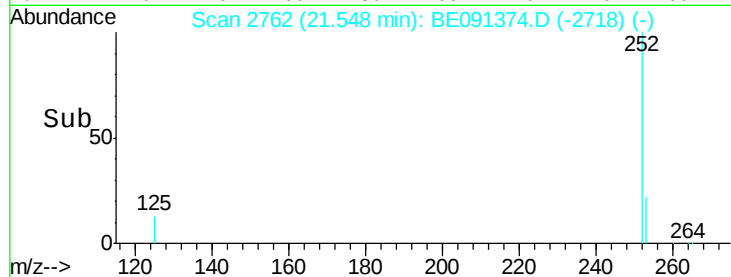
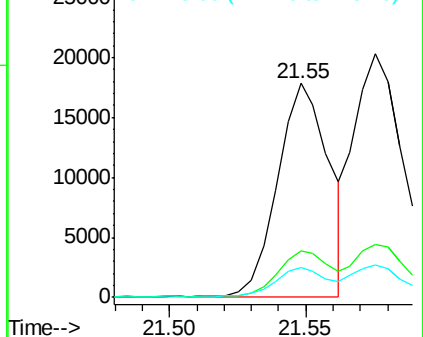
252 100

253 21.9 17.4 26.2

125 13.7 11.0 16.6



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: 1.00 ng

RT: 21.58 min Scan# 2768

Delta R.T. 0.00 min

Lab File: BE091374.D

Acq: 15 Jan 2016 11:11

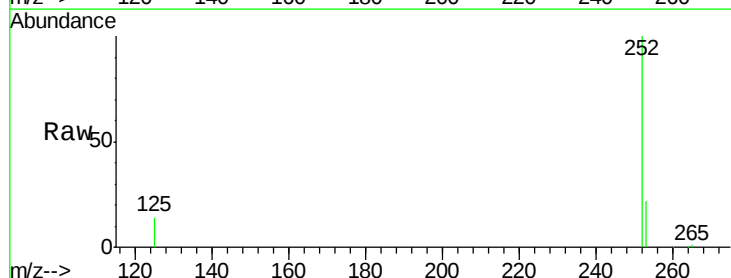
Tgt Ion:252 Resp: 28068

Ion Ratio Lower Upper

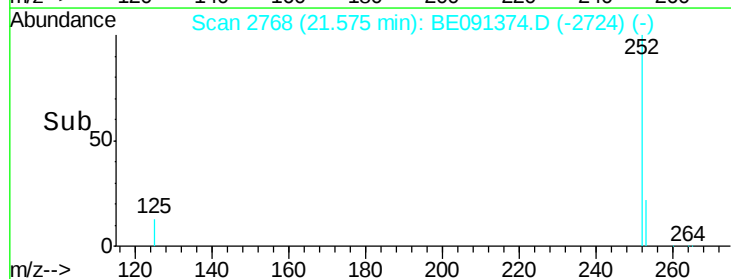
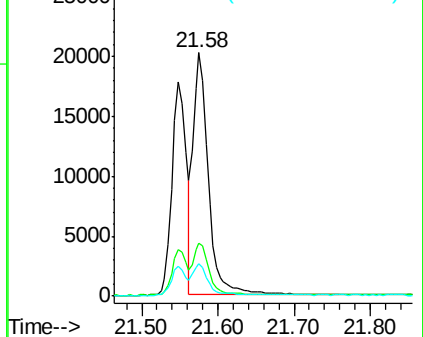
252 100

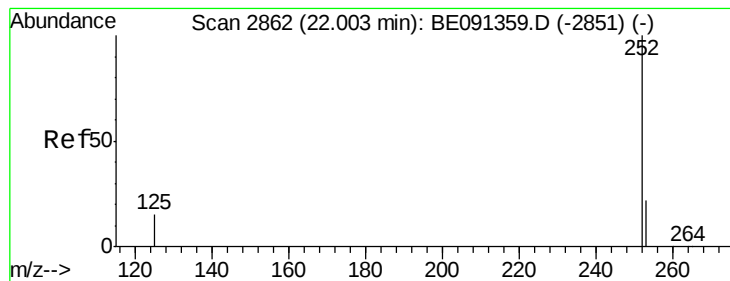
253 21.9 17.5 26.3

125 13.5 11.3 16.9



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: 0.89 ng

RT: 22.01 min Scan# 2863

Delta R.T. 0.01 min

Lab File: BE091374.D

Acq: 15 Jan 2016 11:11

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

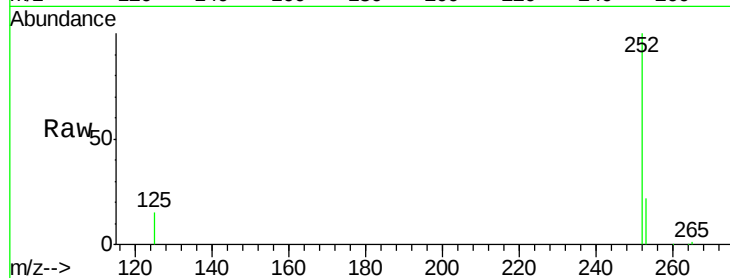
Tot Ion:252 Resp: 20478

Ion Ratio Lower Upper

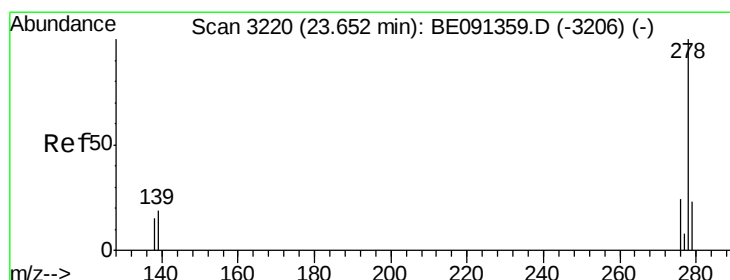
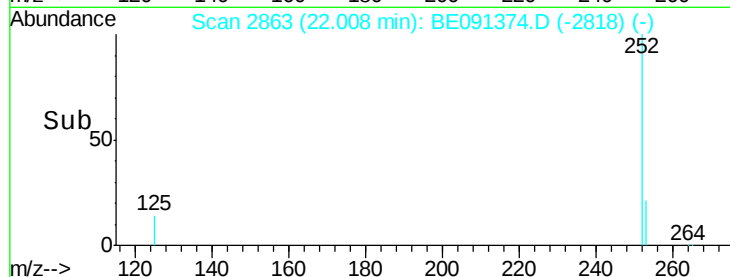
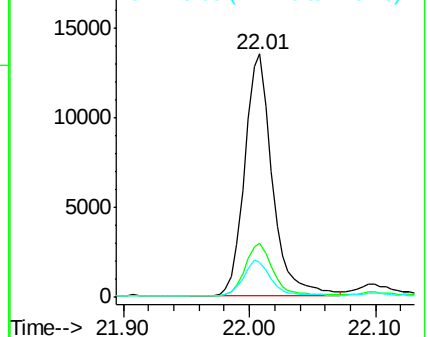
252 100

253 22.1 18.1 27.1

125 14.5 12.2 18.4



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



#28

Dibenzo(a,h)anthracene

Concen: 0.99 ng

RT: 23.65 min Scan# 3220

Delta R.T. -0.00 min

Lab File: BE091374.D

Acq: 15 Jan 2016 11:11

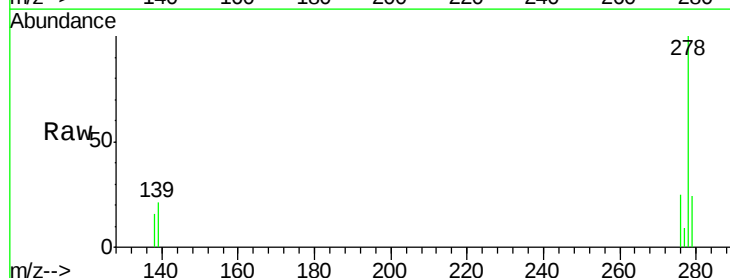
Tgt Ion:278 Resp: 17190

Ion Ratio Lower Upper

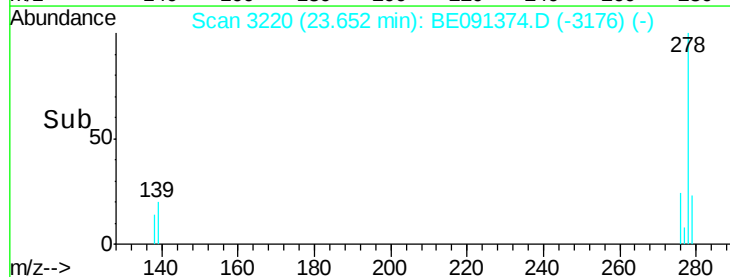
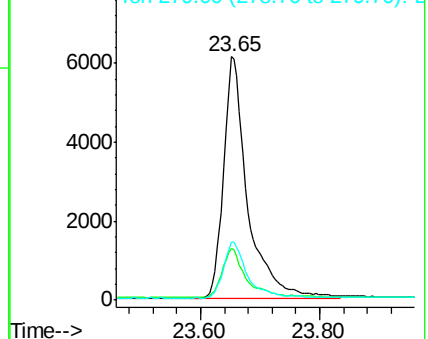
278 100

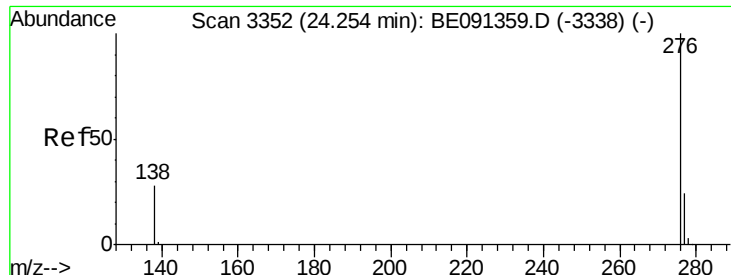
139 21.1 16.3 24.5

279 23.6 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





#29

Benzo(a,h,i)perylene

Concen: 0.97 ng

RT: 24.25 min Scan# 3352

Delta R.T. 0.00 min

Lab File: BE091374.D

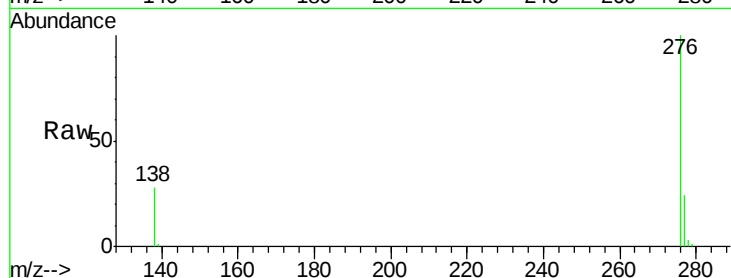
Acq: 15 Jan 2016 11:11

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC



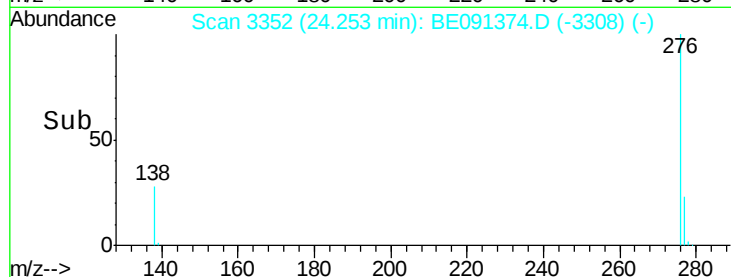
Tot Ion: 276 Resp: 20884

Ion Ratio Lower Upper

276 100

277 23.9 19.8 29.6

138 28.4 23.3 34.9



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

