

Data Path : Z:\HPCHEM1\BNA_E\Data\BE011416\
 Data File : BE091370.D
 Acq On : 15 Jan 2016 3:17
 Operator : UM/IZ
 Sample : SSTDCCC001
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001EC

Quant Time: Jan 15 15:21:38 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE011416.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 14 23:29:02 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	32504	5.00	ng	0.00
4) Naphthalene-d8	9.54	136	156035	5.00	ng	0.00
8) Acenaphthene-d10	13.35	164	79571	5.00	ng	0.00
14) Phenanthrene-d10	16.08	188	206316	5.00	ng	0.00
18) Chrysene-d12	20.22	240	233645	5.00	ng	0.00
24) Perylene-d12	22.10	264	209151	5.00	ng	0.00

System Monitoring Compounds						
2) 2-Fluorophenol	4.92	112	5817	1.58	ng	-0.02
3) Phenol-d6	6.56	99	7725	1.29	ng	-0.01
5) Nitrobenzene-d5	8.15	82	9565	1.06	ng	-0.01
9) 2,4,6-Tribromophenol	14.89	330	1591	1.03	ng	0.00
10) 2-Fluorobiphenyl	12.00	172	18596	1.08	ng	-0.01
20) Terphenyl-d14	18.61	244	27775	1.10	ng	0.00

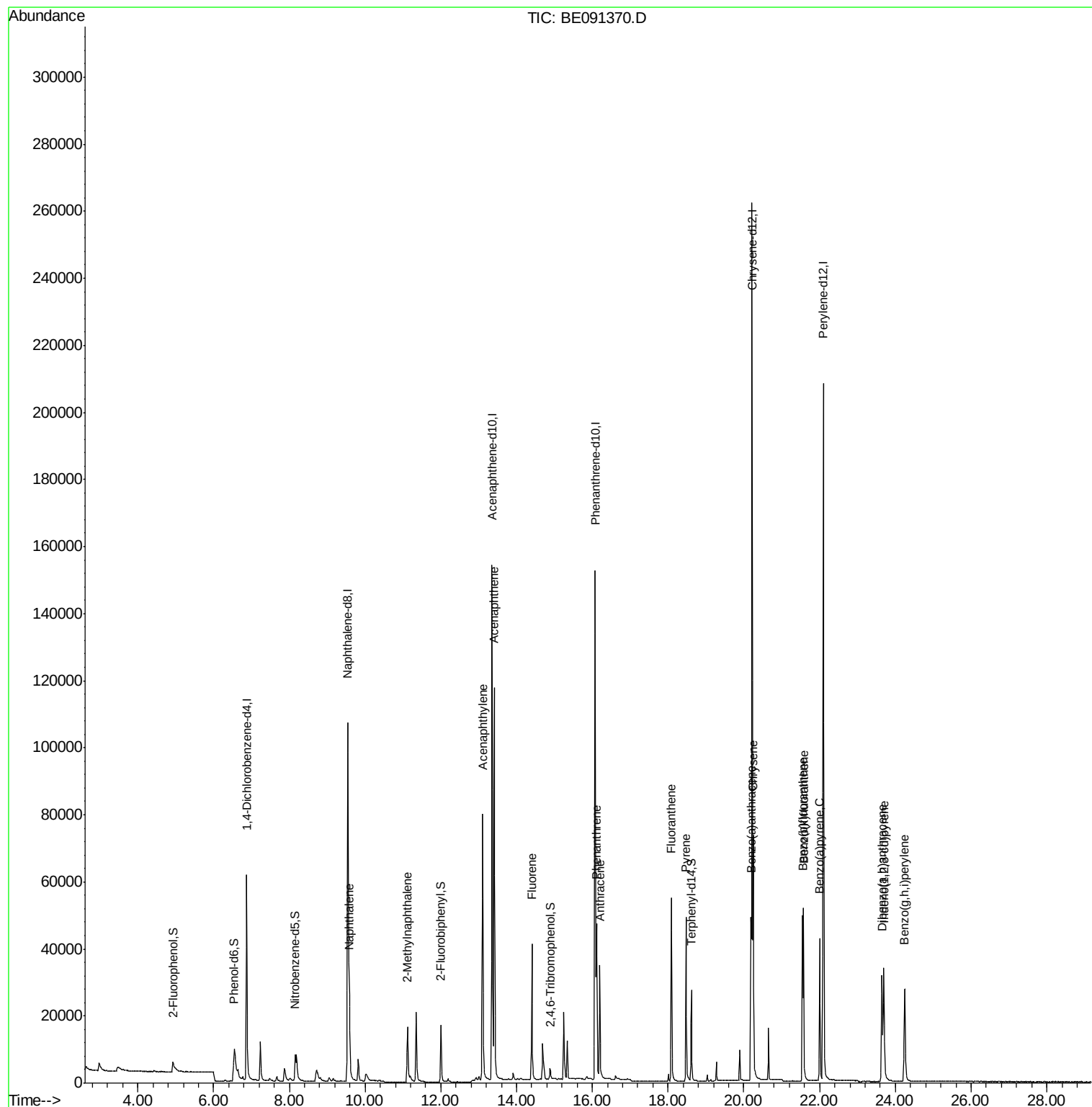
Target Compounds				Qvalue		
6) Naphthalene	9.58	128	33954	1.02	ng	99
7) 2-Methylnaphthalene	11.12	142	14689	1.04	ng	95
11) Acenaphthylene	13.10	152	113487	0.99	ng	100
12) Acenaphthene	13.42	154	21692	0.96	ng	# 81
13) Fluorene	14.40	166	27327	0.98	ng	97
15) Phenanthrene	16.11	178	51691	1.01	ng	100
16) Anthracene	16.20	178	41393	1.04	ng	99
17) Fluoranthene	18.09	202	53478	1.22	ng	99
19) Pyrene	18.47	202	44300	1.10	ng	99
21) Benzo(a)anthracene	20.19	228	45080	1.21	ng	98
22) Chrysene	20.25	228	59529	1.05	ng	98
23) Indeno(1,2,3-cd)pyrene	23.70	276	45147	1.09	ng	96
25) Benzo(b)fluoranthene	21.55	252	49486	1.17	ng	98
26) Benzo(k)fluoranthene	21.58	252	49230	1.04	ng	99
27) Benzo(a)pyrene	22.00	252	44425	1.08	ng	99
28) Dibenzo(a,h)anthracene	23.65	278	40092	1.22	ng	99
29) Benzo(g,h,i)perylene	24.25	276	44319	1.15	ng	98

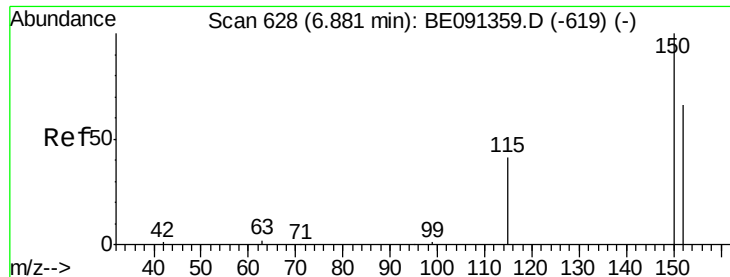
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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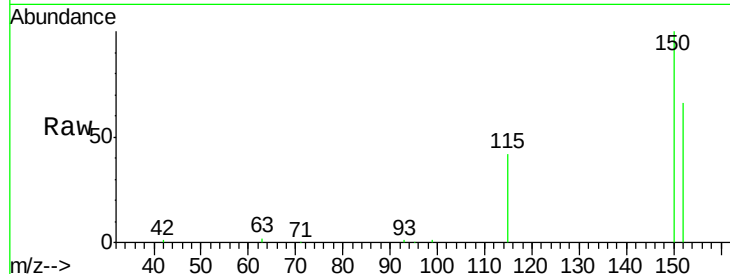




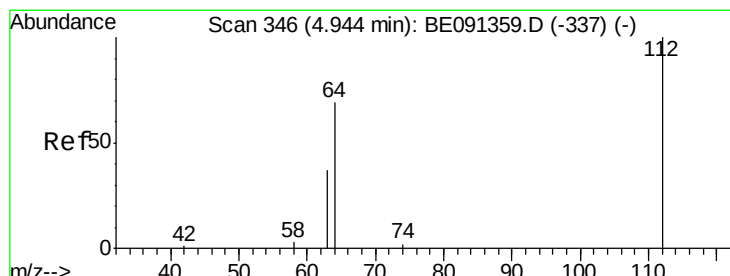
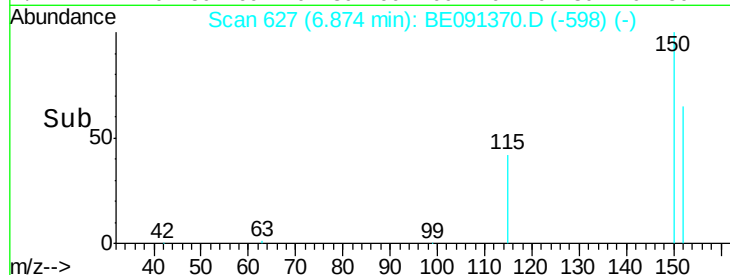
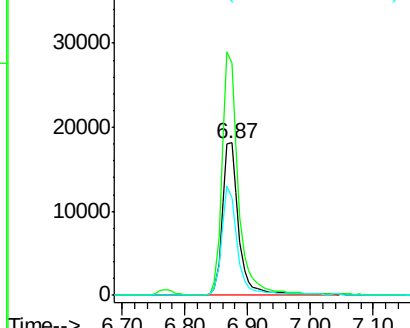
#1
 1,4-Dichlorobenzene-d4
 Concen: 5.00 ng
 RT: 6.87 min Scan# 627
 Delta R.T. -0.01 min
 Lab File: BE091370.D
 Acq: 15 Jan 2016 3:17

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001EC

Tgt Ion:152 Resp: 32504
 Ion Ratio Lower Upper
 152 100
 150 152.5 121.6 182.4
 115 64.0 50.6 75.8

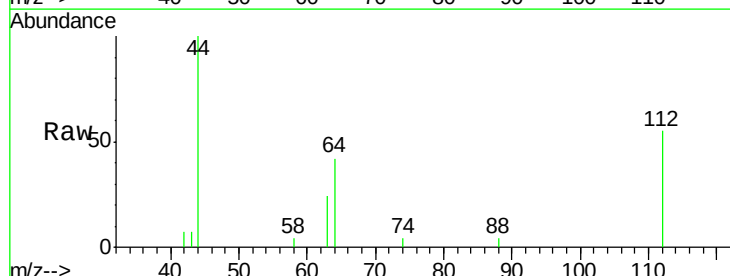


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

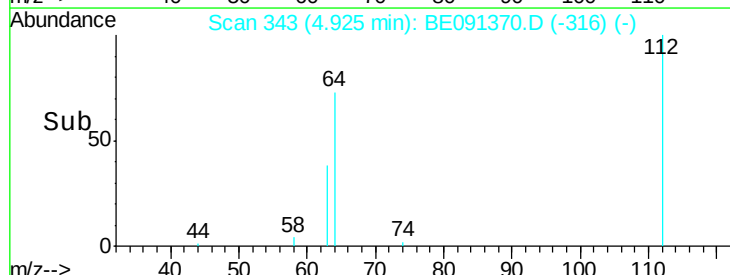
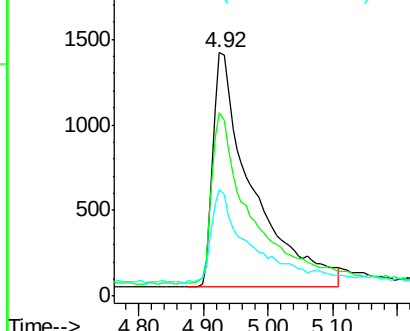


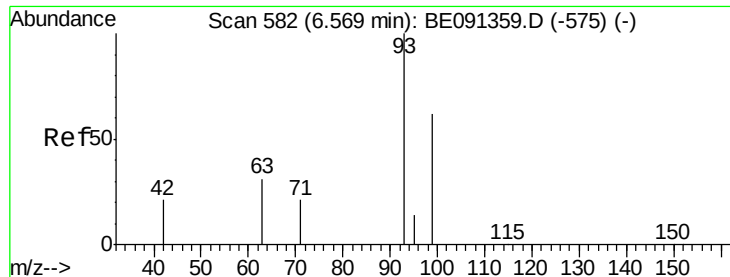
#2
 2-Fluorophenol
 Concen: 1.58 ng
 RT: 4.92 min Scan# 343
 Delta R.T. -0.02 min
 Lab File: BE091370.D
 Acq: 15 Jan 2016 3:17

Tgt Ion:112 Resp: 5817
 Ion Ratio Lower Upper
 112 100
 64 72.1 57.4 86.0
 63 37.2 32.2 48.2



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: 1.29 ng

RT: 6.56 min Scan# 580

Delta R.T. -0.01 min

Lab File: BE091370.D

Acq: 15 Jan 2016 3:17

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

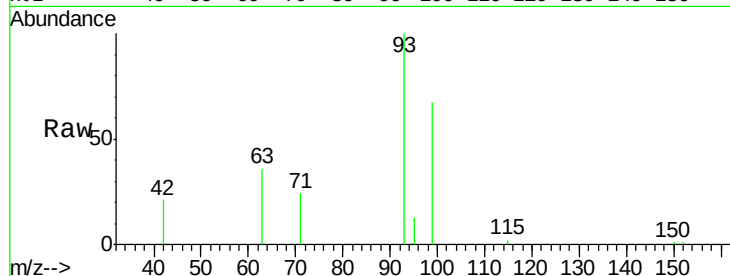
Tgt Ion: 99 Resp: 7725

Ion Ratio Lower Upper

99 100

42 25.1 22.9 34.3

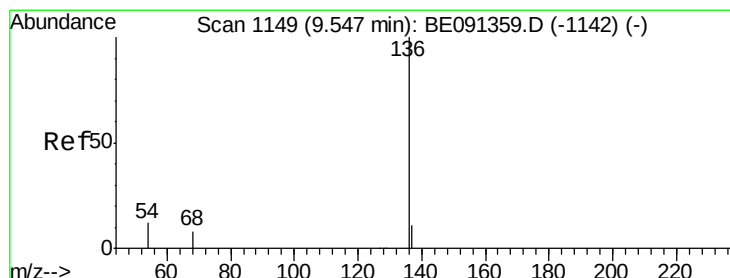
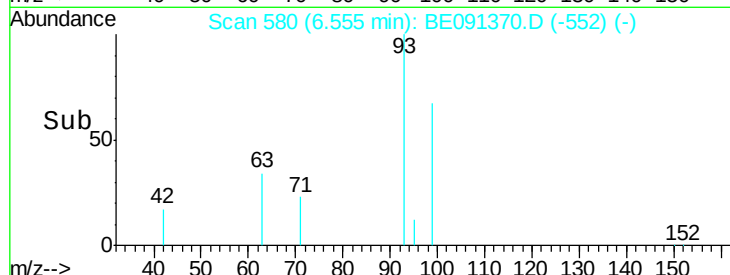
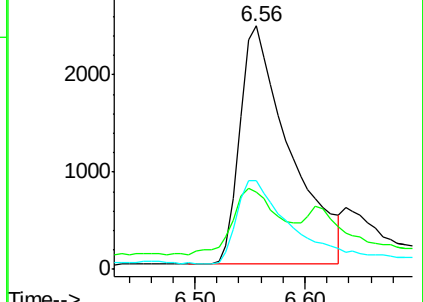
71 42.5 35.4 53.2



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: 9.54 min Scan# 1148

Delta R.T. -0.01 min

Lab File: BE091370.D

Acq: 15 Jan 2016 3:17

Tgt Ion: 136 Resp: 156035

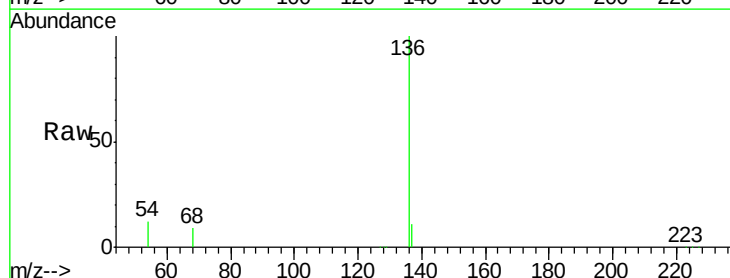
Ion Ratio Lower Upper

136 100

137 10.9 8.7 13.1

54 12.3 9.8 14.6

68 8.7 6.6 10.0

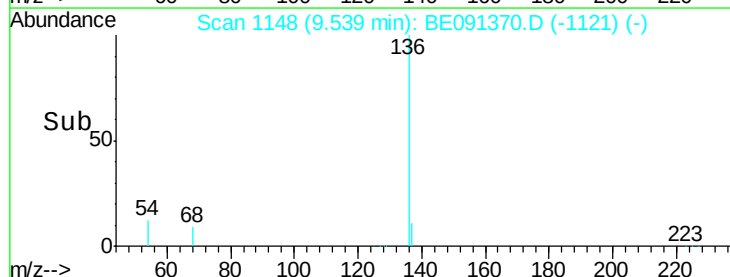
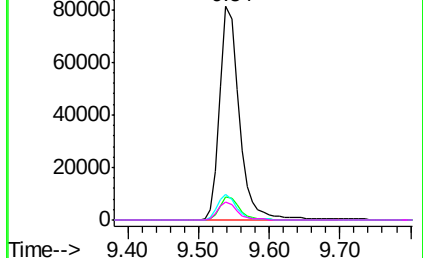


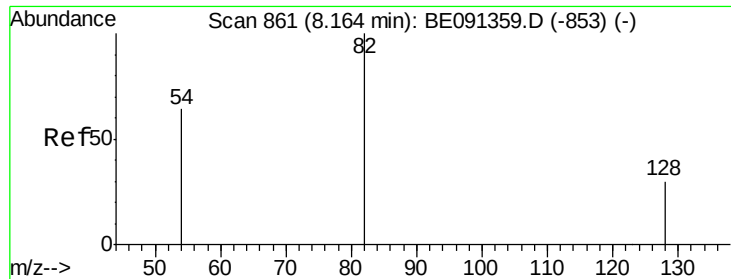
Abundance Ion 136.00 (135.70 to 136.70): E

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: 1.06 ng

RT: 8.15 min Scan# 859

Delta R.T. -0.01 min

Lab File: BE091370.D

Acq: 15 Jan 2016 3:17

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

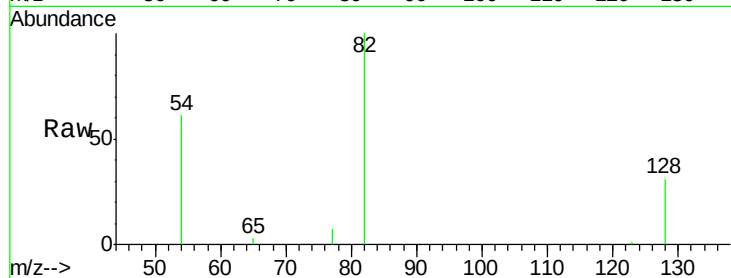
Tgt Ion: 82 Resp: 9565

Ion Ratio Lower Upper

82 100

128 31.4 24.6 36.8

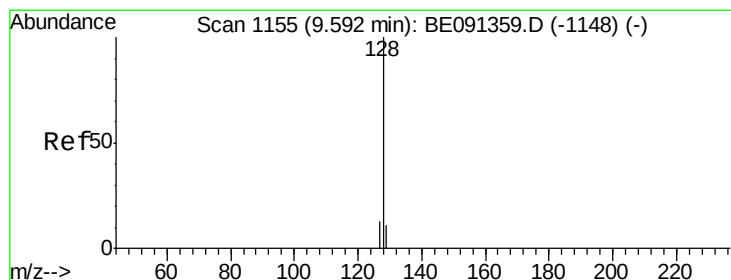
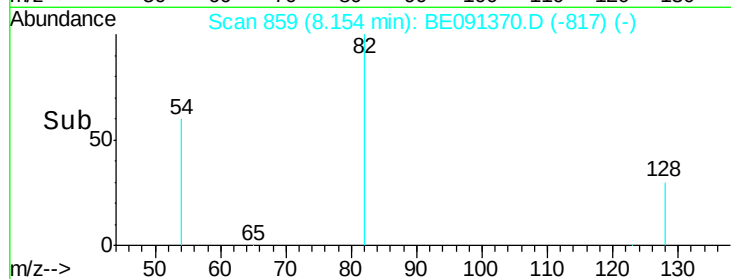
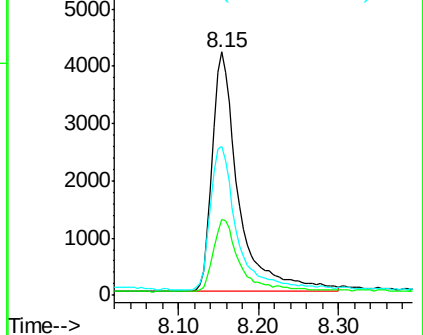
54 61.2 52.7 79.1



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: 1.02 ng

RT: 9.58 min Scan# 1154

Delta R.T. -0.01 min

Lab File: BE091370.D

Acq: 15 Jan 2016 3:17

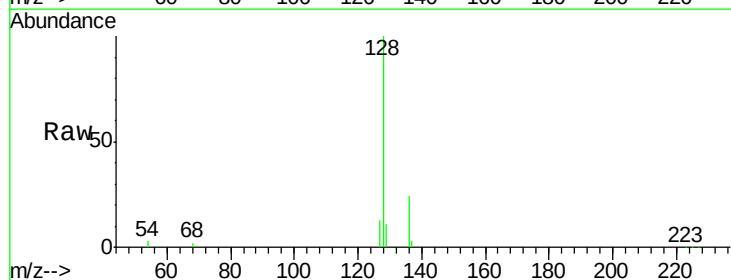
Tgt Ion: 128 Resp: 33954

Ion Ratio Lower Upper

128 100

129 10.9 9.3 13.9

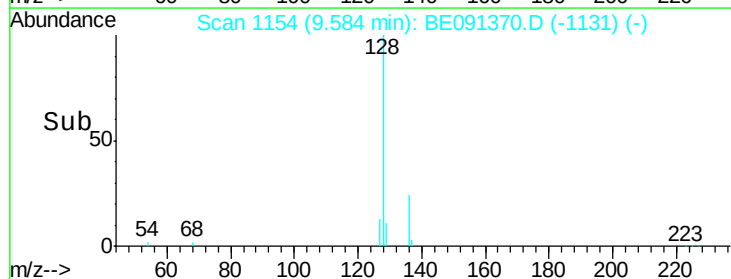
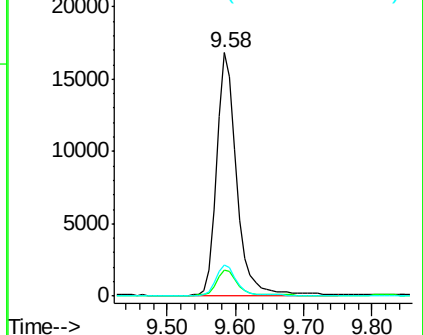
127 13.0 10.6 15.8

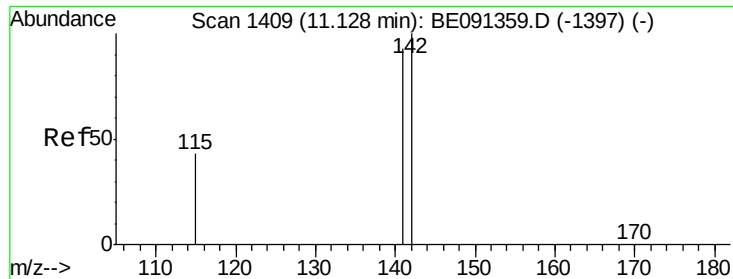


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#7

2-Methylnaphthalene

Concen: 1.04 ng

RT: 11.12 min Scan# 1407

Delta R.T. -0.01 min

Lab File: BE091370.D

Acq: 15 Jan 2016 3:17

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

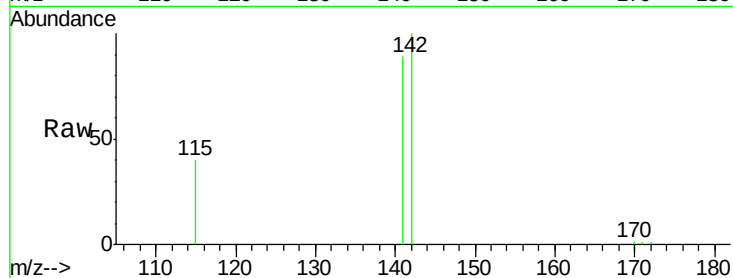
Tgt Ion:142 Resp: 14689

Ion Ratio Lower Upper

142 100

141 89.3 74.5 111.7

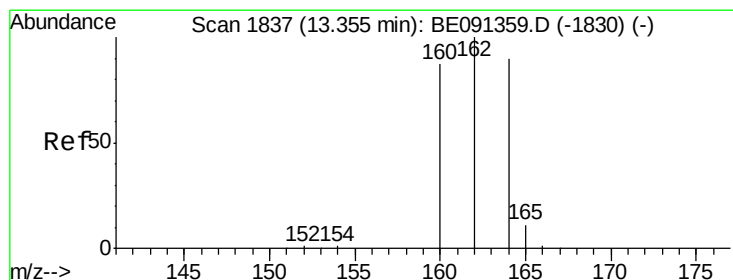
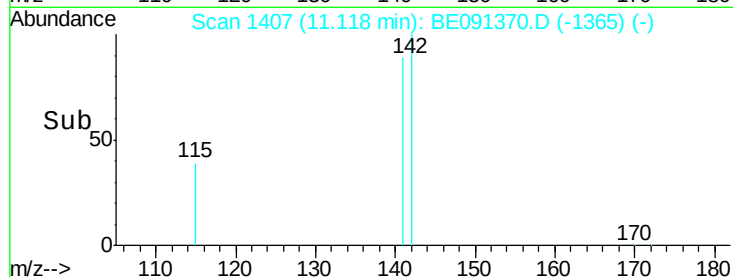
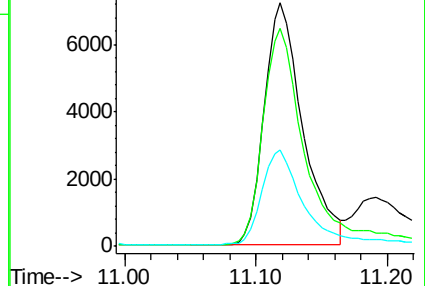
115 39.8 35.2 52.8



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: BE091370.D

Acq: 15 Jan 2016 3:17

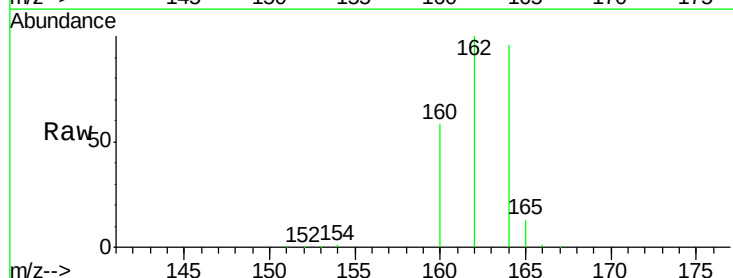
Tgt Ion:164 Resp: 79571

Ion Ratio Lower Upper

164 100

162 104.6 88.5 132.7

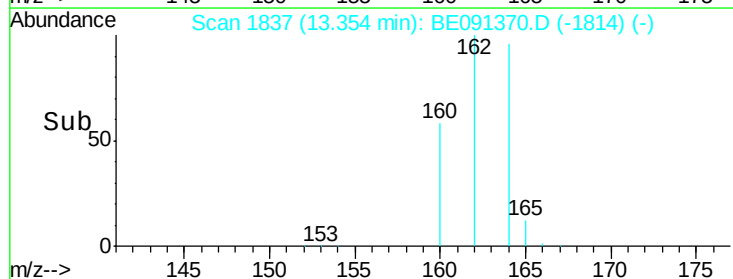
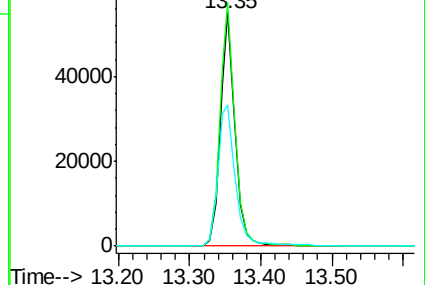
160 60.4 76.7 115.1#

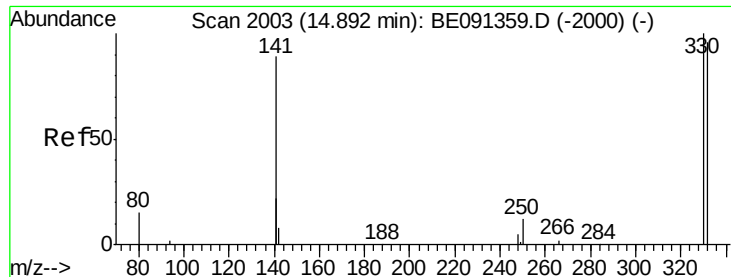


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2,4,6-Tribromophenol

Concen: 1.03 ng

RT: 14.89 min Scan# 2003

Delta R.T. -0.00 min

Lab File: BE091370.D

Acq: 15 Jan 2016 3:17

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

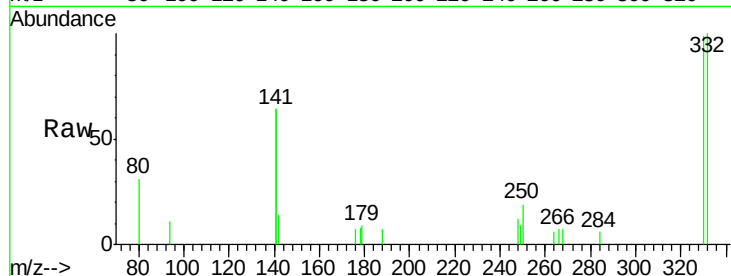
Tgt Ion:330 Resp: 1591

Ion Ratio Lower Upper

330 100

332 95.2 78.6 118.0

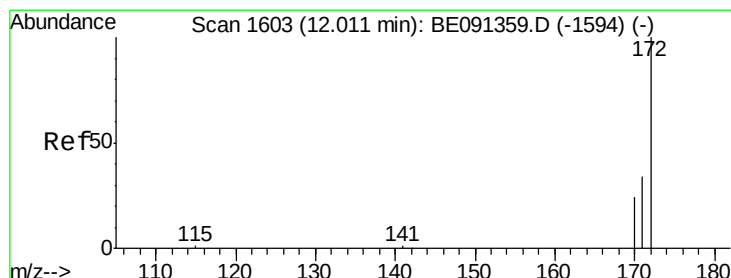
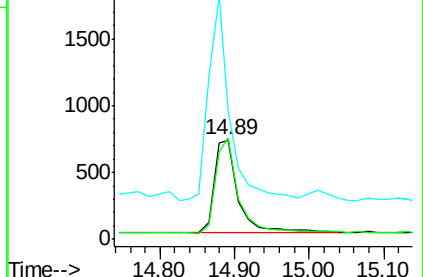
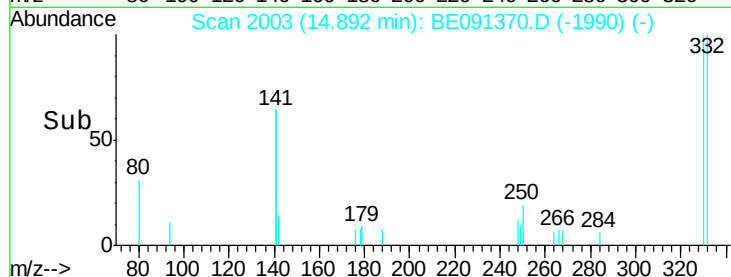
141 188.9 147.8 221.8



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



#10

2-Fluorobiphenyl

Concen: 1.08 ng

RT: 12.00 min Scan# 1601

Delta R.T. -0.01 min

Lab File: BE091370.D

Acq: 15 Jan 2016 3:17

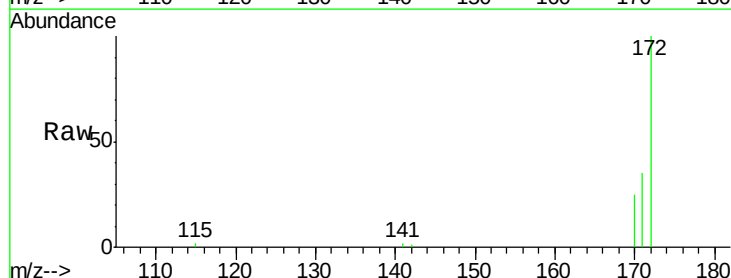
Tgt Ion:172 Resp: 18596

Ion Ratio Lower Upper

172 100

171 34.7 27.3 40.9

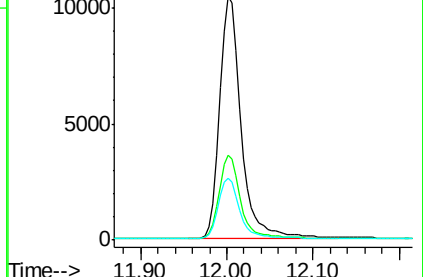
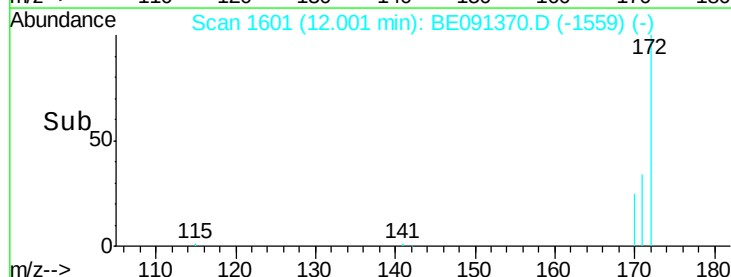
170 25.2 19.8 29.6

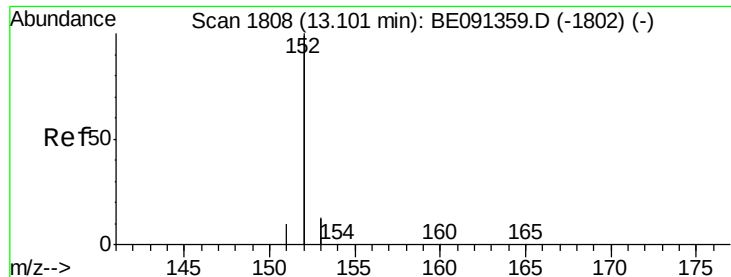


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#11

Acenaphthylene

Concen: 0.99 ng

RT: 13.10 min Scan# 1808

Delta R.T. 0.00 min

Lab File: BE091370.D

Acq: 15 Jan 2016 3:17

Instrument :

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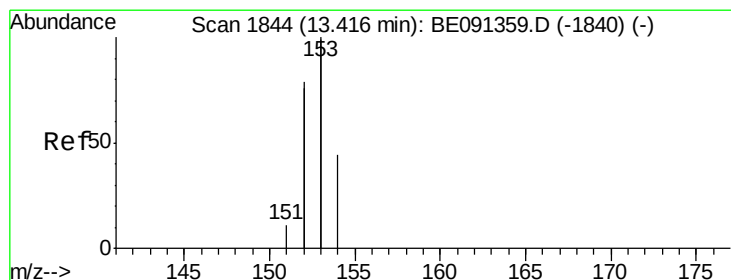
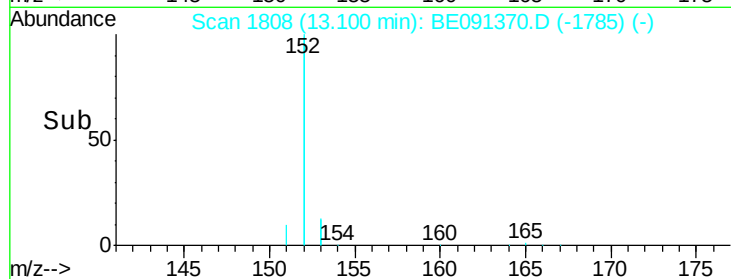
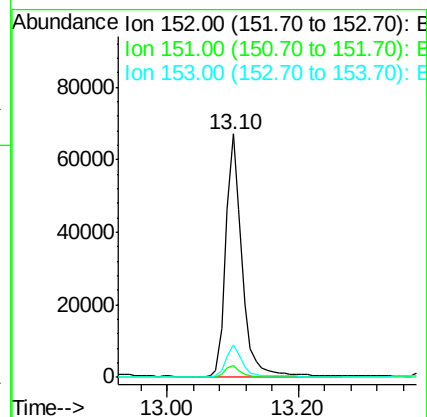
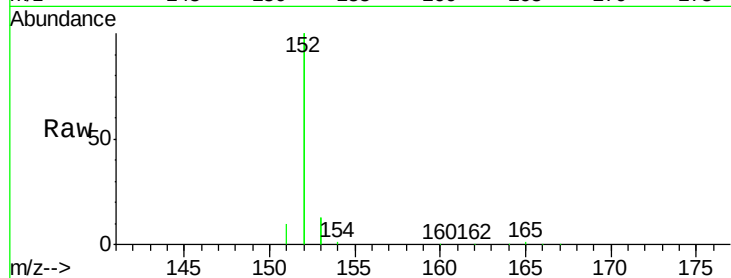
Tgt Ion:152 Resp: 113487

Ion Ratio Lower Upper

152 100

151 4.7 3.8 5.8

153 12.8 10.1 15.1



#12

Acenaphthene

Concen: 0.96 ng

RT: 13.42 min Scan# 1844

Delta R.T. -0.00 min

Lab File: BE091370.D

Acq: 15 Jan 2016 3:17

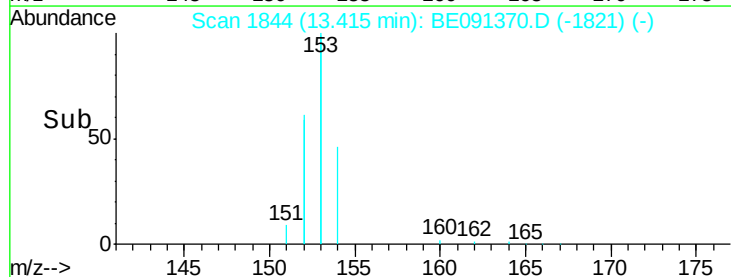
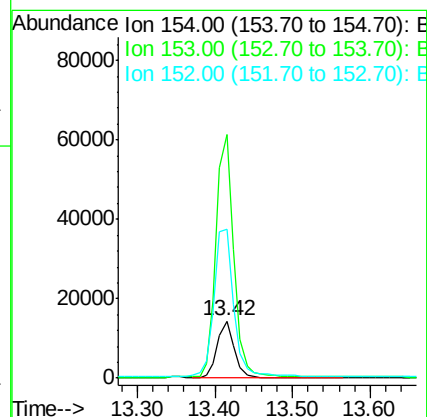
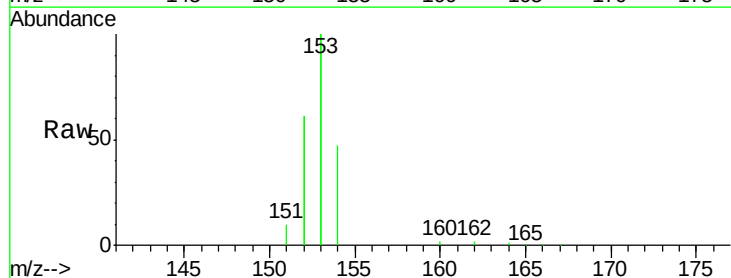
Tgt Ion:154 Resp: 21692

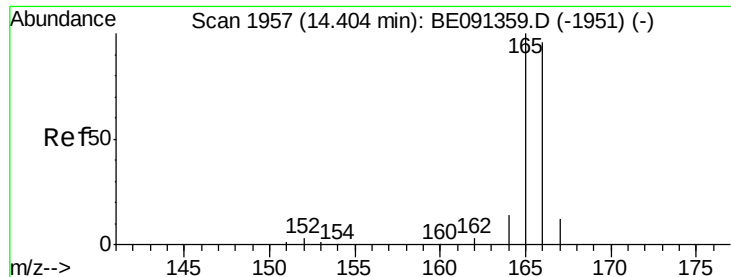
Ion Ratio Lower Upper

154 100

153 450.2 370.2 555.4

152 305.3 310.5 465.7#





#13

Fluorene

Concen: 0.98 ng

RT: 14.40 min Scan# 1957

Delta R.T. -0.00 min

Lab File: BE091370.D

Acq: 15 Jan 2016 3:17

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

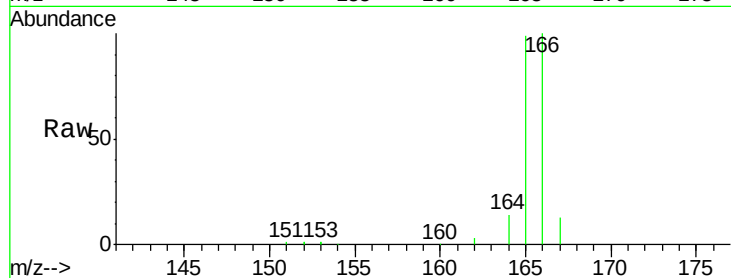
Tgt Ion:166 Resp: 27327

Ion Ratio Lower Upper

166 100

165 100.6 83.0 124.6

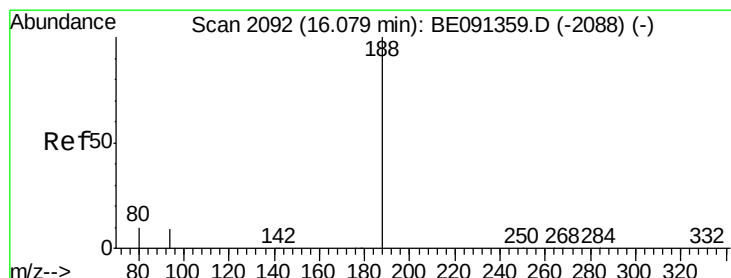
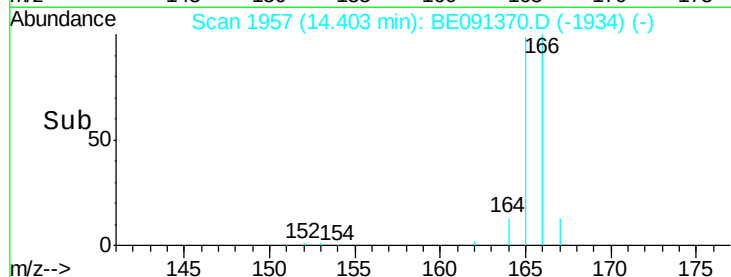
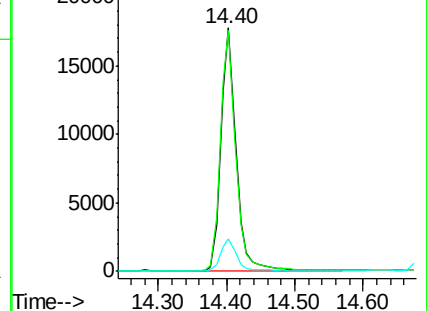
167 13.2 11.1 16.7



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: 16.08 min Scan# 2092

Delta R.T. -0.00 min

Lab File: BE091370.D

Acq: 15 Jan 2016 3:17

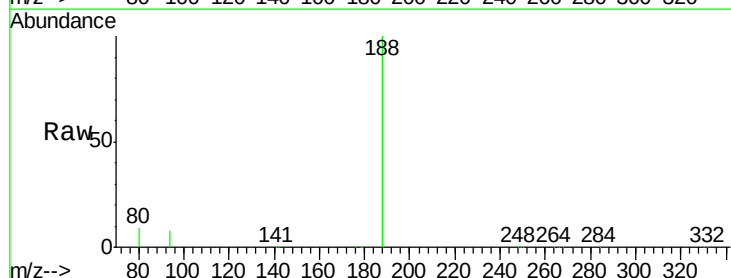
Tgt Ion:188 Resp: 206316

Ion Ratio Lower Upper

188 100

94 8.4 7.5 11.3

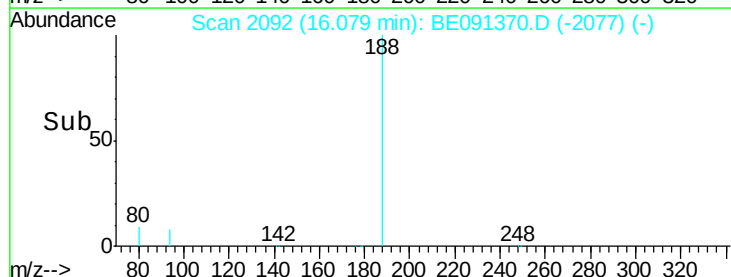
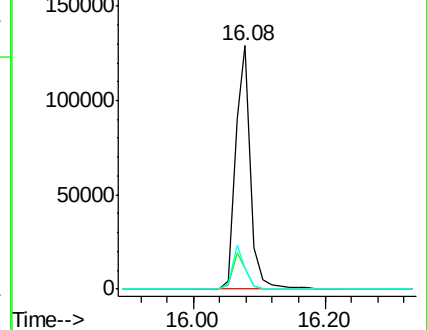
80 8.8 8.2 12.2

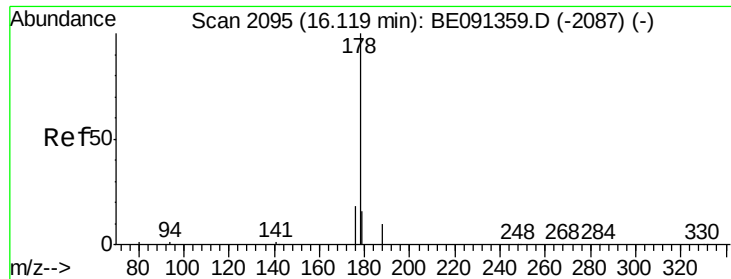


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#15

Phenanthrene

Concen: 1.01 ng

RT: 16.11 min Scan# 2094

Delta R.T. -0.01 min

Lab File: BE091370.D

Acq: 15 Jan 2016 3:17

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

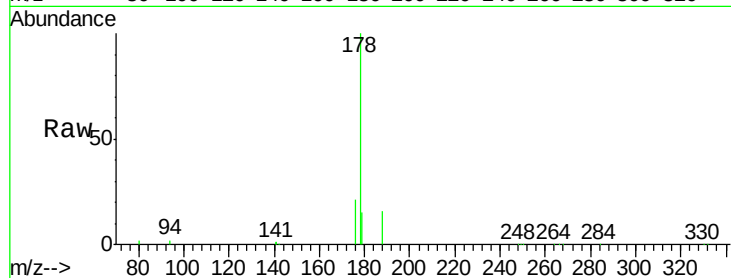
Tgt Ion:178 Resp: 51691

Ion Ratio Lower Upper

178 100

176 19.3 15.4 23.2

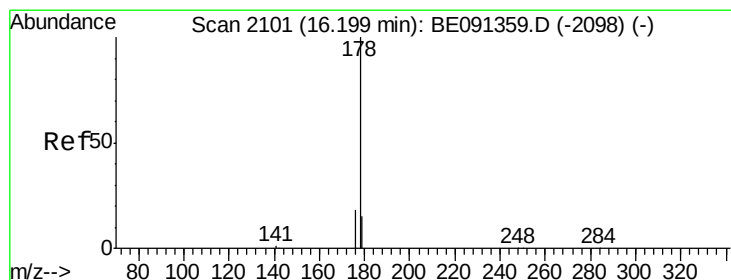
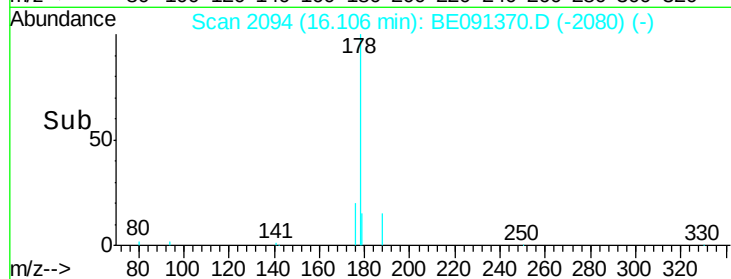
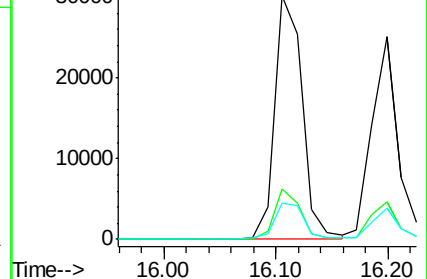
179 15.7 12.8 19.2



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: 1.04 ng

RT: 16.20 min Scan# 2101

Delta R.T. -0.00 min

Lab File: BE091370.D

Acq: 15 Jan 2016 3:17

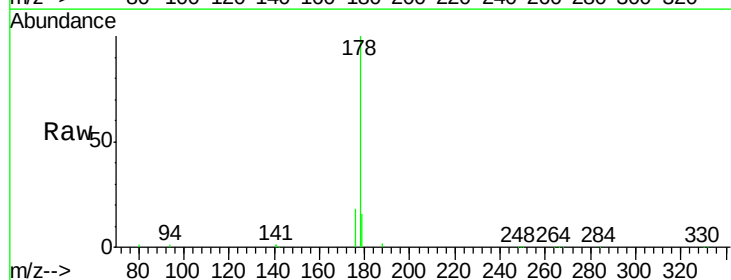
Tgt Ion:178 Resp: 41393

Ion Ratio Lower Upper

178 100

176 18.6 15.0 22.6

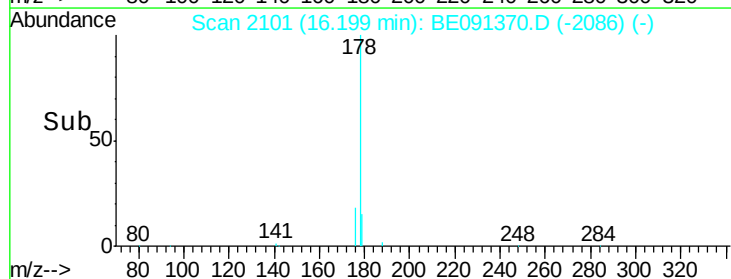
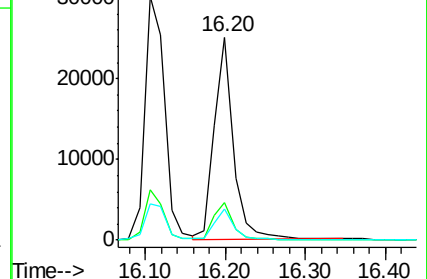
179 15.2 12.4 18.6

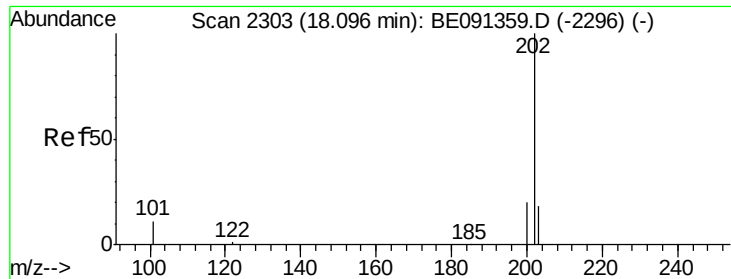


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

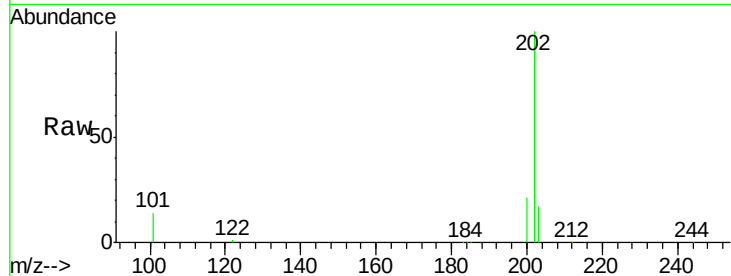




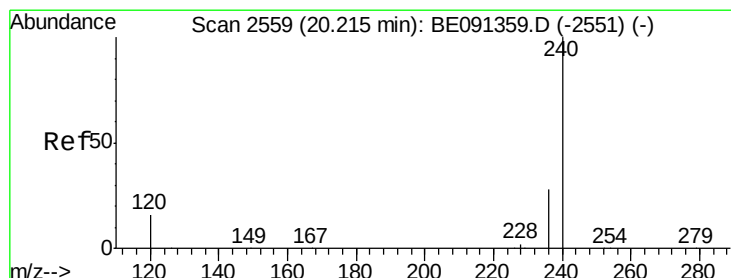
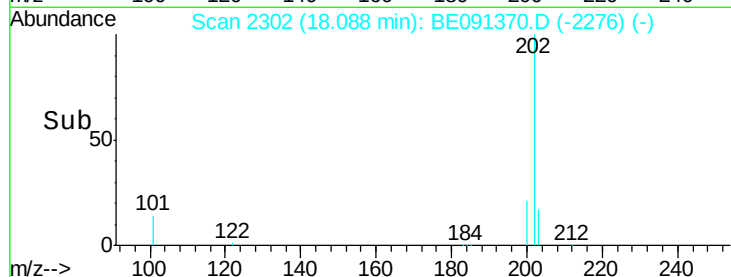
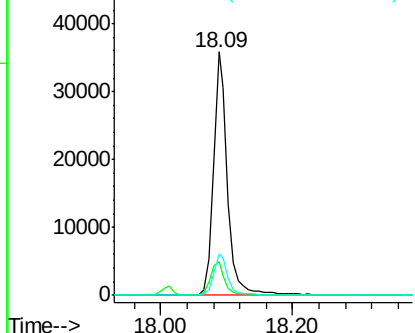
#17
 Fluoranthene
 Concen: 1.22 ng
 RT: 18.09 min Scan# 2302
 Delta R.T. -0.01 min
 Lab File: BE091370.D
 Acq: 15 Jan 2016 3:17

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001EC

Tgt Ion:202 Resp: 53478
 Ion Ratio Lower Upper
 202 100
 101 14.2 11.0 16.4
 203 17.1 13.9 20.9

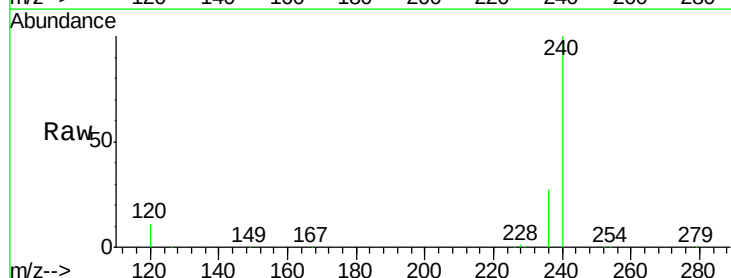


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

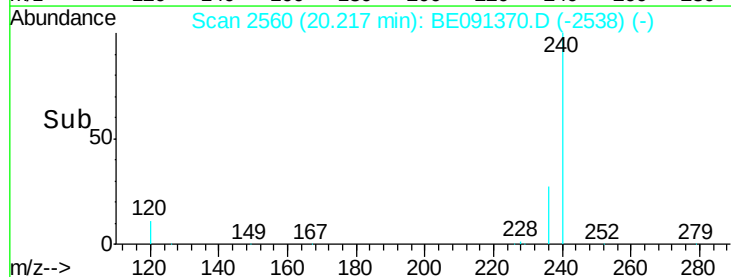
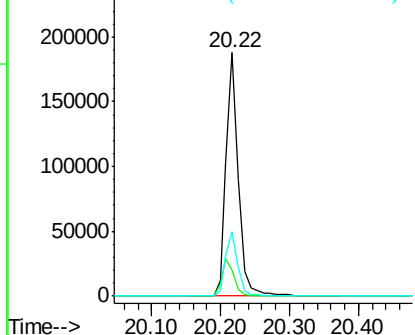


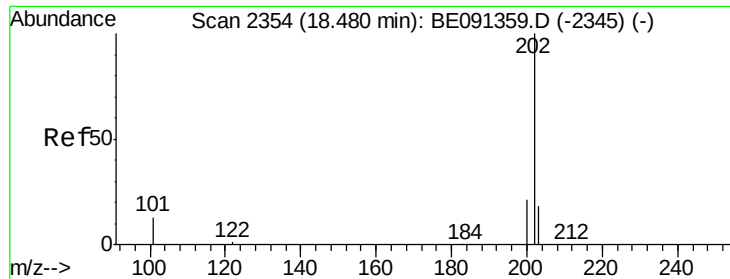
#18
 Chrysene-d12
 Concen: 5.00 ng
 RT: 20.22 min Scan# 2560
 Delta R.T. 0.00 min
 Lab File: BE091370.D
 Acq: 15 Jan 2016 3:17

Tgt Ion:240 Resp: 233645
 Ion Ratio Lower Upper
 240 100
 120 10.9 12.6 19.0#
 236 26.6 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

Pyrene

Concen: 1.10 ng

RT: 18.47 min Scan# 2353

Delta R.T. -0.01 min

Lab File: BE091370.D

Acq: 15 Jan 2016 3:17

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

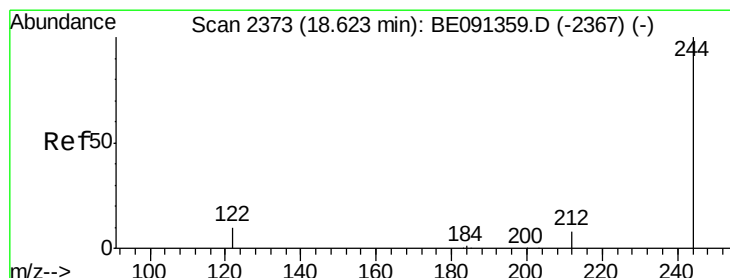
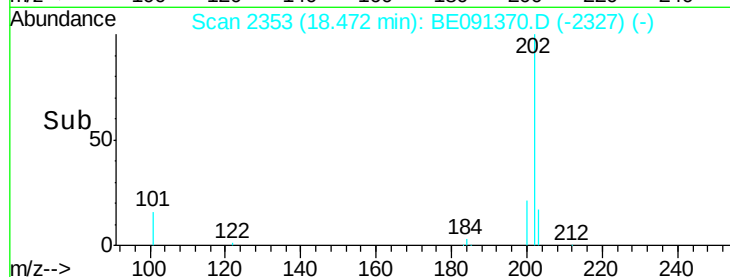
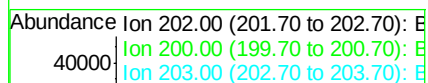
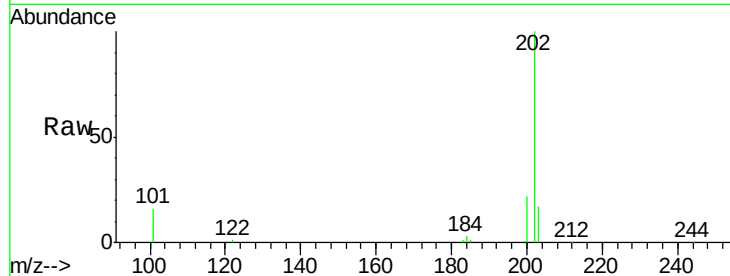
Tgt Ion:202 Resp: 44300

Ion Ratio Lower Upper

202 100

200 21.1 17.2 25.8

203 17.5 14.2 21.4



#20

Terphenyl-d14

Concen: 1.10 ng

RT: 18.61 min Scan# 2372

Delta R.T. -0.01 min

Lab File: BE091370.D

Acq: 15 Jan 2016 3:17

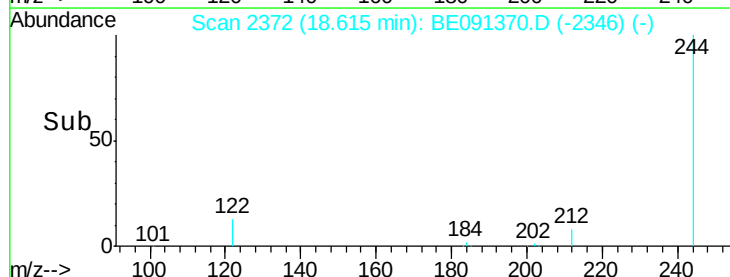
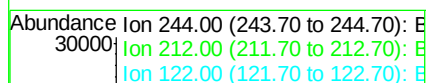
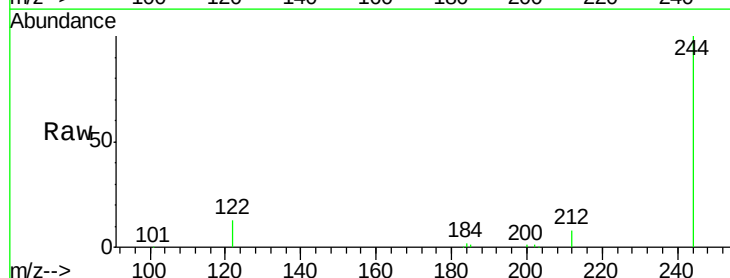
Tgt Ion:244 Resp: 27775

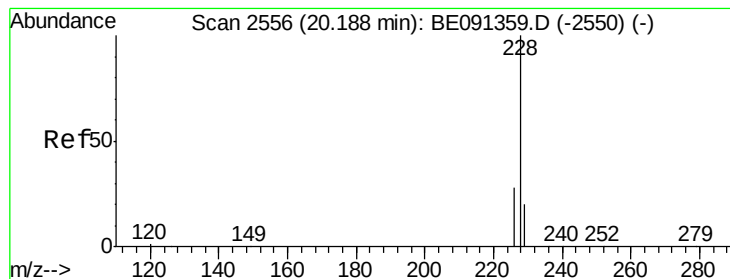
Ion Ratio Lower Upper

244 100

212 8.4 7.0 10.4

122 13.1 8.5 12.7#





#21

Benzo(a)anthracene

Concen: 1.21 ng

RT: 20.19 min Scan# 2557

Delta R.T. 0.00 min

Lab File: BE091370.D

Acq: 15 Jan 2016 3:17

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

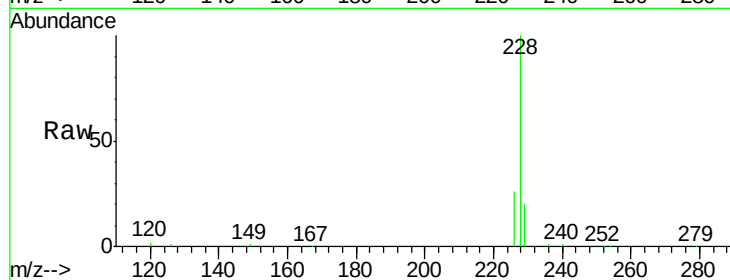
Tgt Ion:228 Resp: 45080

Ion Ratio Lower Upper

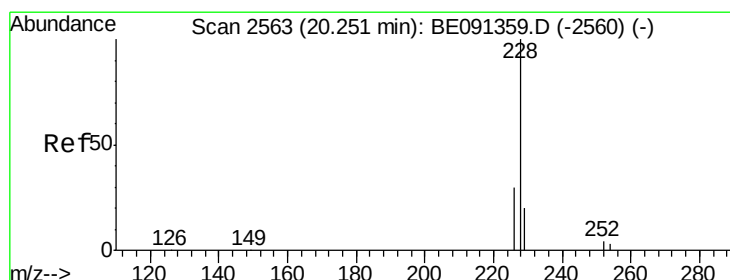
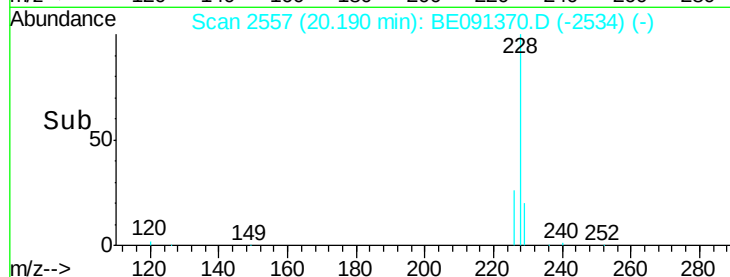
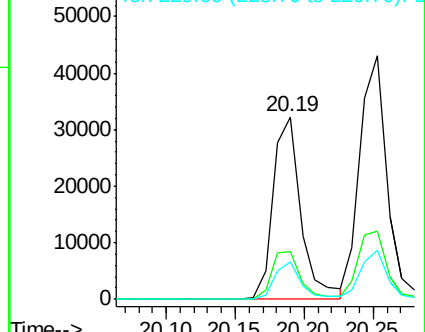
228 100

226 26.4 22.5 33.7

229 20.2 16.2 24.4



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: 1.05 ng

RT: 20.25 min Scan# 2564

Delta R.T. 0.00 min

Lab File: BE091370.D

Acq: 15 Jan 2016 3:17

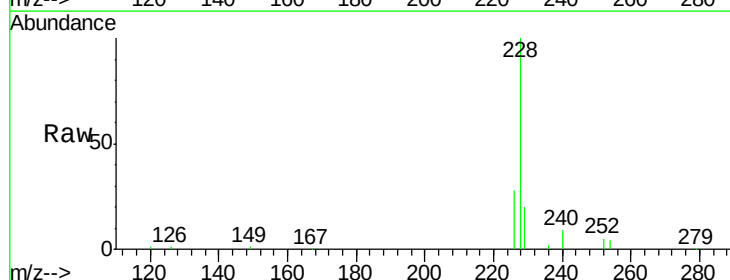
Tgt Ion:228 Resp: 59529

Ion Ratio Lower Upper

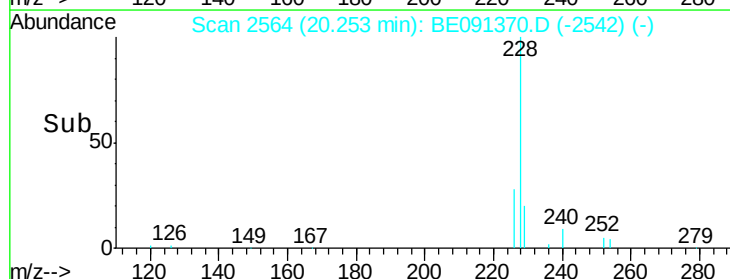
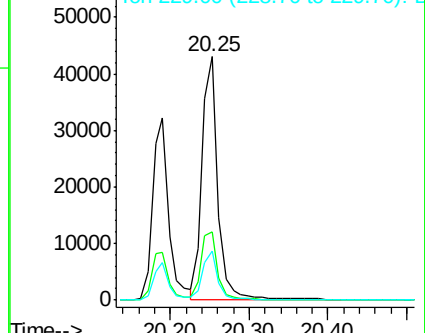
228 100

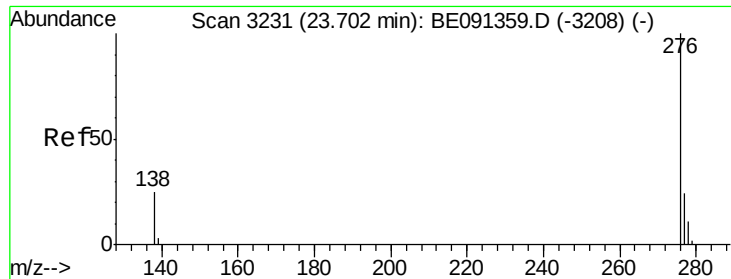
226 27.9 23.7 35.5

229 20.0 16.0 24.0



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

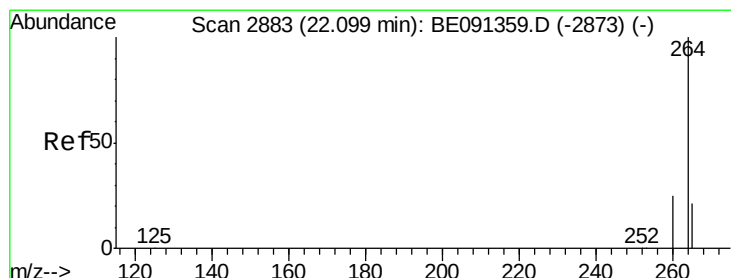
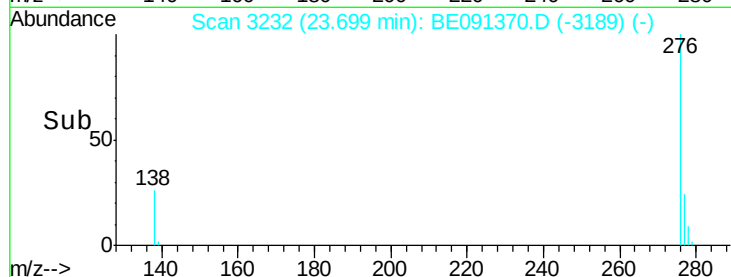
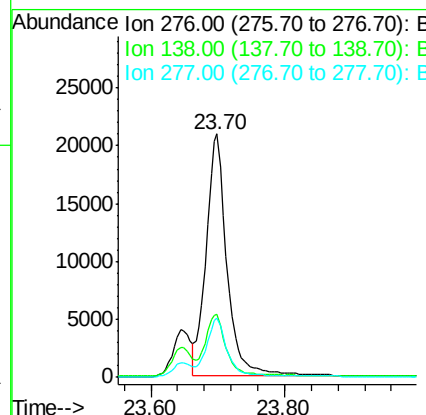
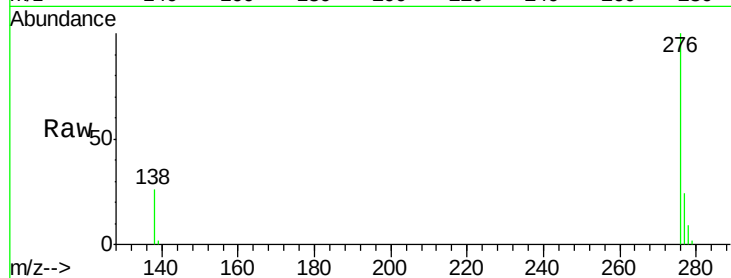




#23
 Indeno(1,2,3-cd)pyrene
 Concen: 1.09 ng
 RT: 23.70 min Scan# 3232
 Delta R.T. -0.00 min
 Lab File: BE091370.D
 Acq: 15 Jan 2016 3:17

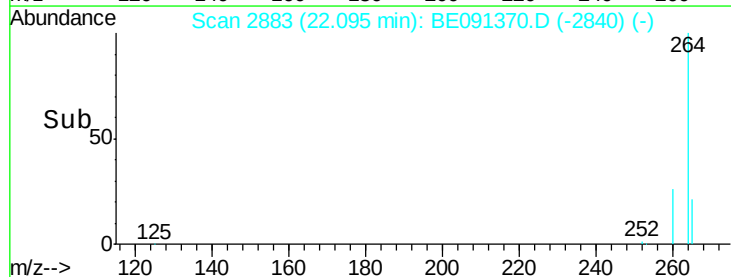
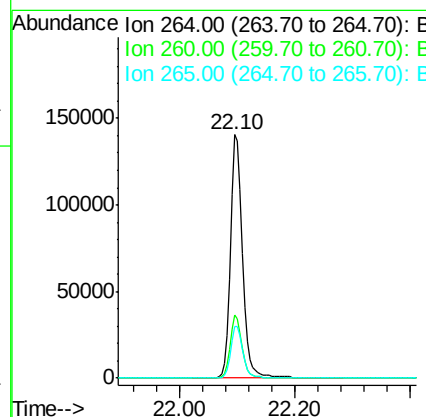
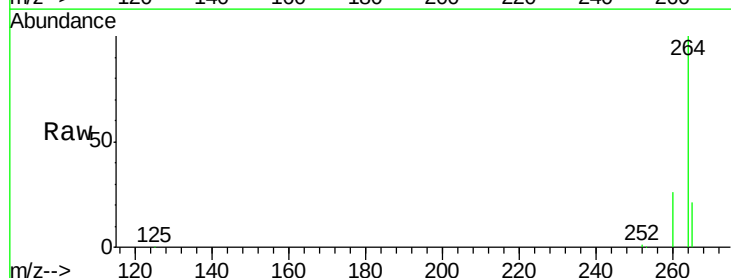
Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001EC

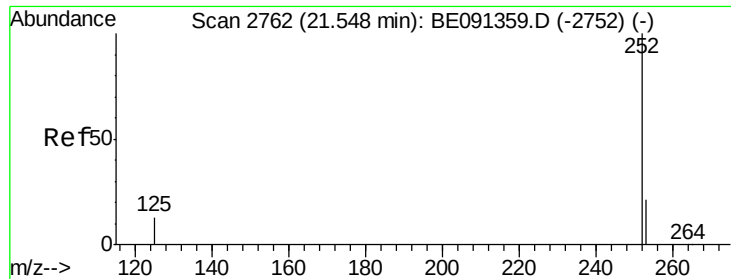
Tgt Ion: 276 Resp: 45147
 Ion Ratio Lower Upper
 276 100
 138 24.9 18.6 27.8
 277 22.9 16.5 24.7



#24
 Perylene-d12
 Concen: 5.00 ng
 RT: 22.10 min Scan# 2883
 Delta R.T. -0.00 min
 Lab File: BE091370.D
 Acq: 15 Jan 2016 3:17

Tgt Ion: 264 Resp: 209151
 Ion Ratio Lower Upper
 264 100
 260 26.0 20.4 30.6
 265 21.1 17.2 25.8





#25

Benzo(b)fluoranthene

Concen: 1.17 ng

RT: 21.55 min Scan# 2763

Delta R.T. 0.00 min

Lab File: BE091370.D

Acq: 15 Jan 2016 3:17

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

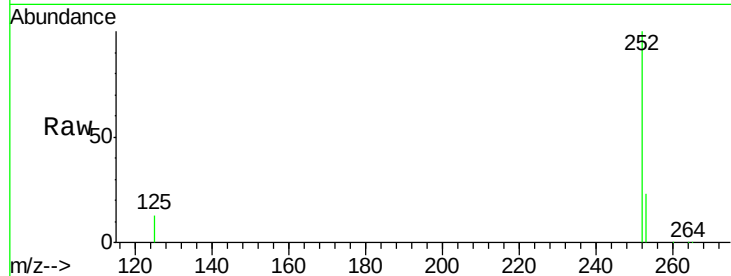
Tgt Ion:252 Resp: 49486

Ion Ratio Lower Upper

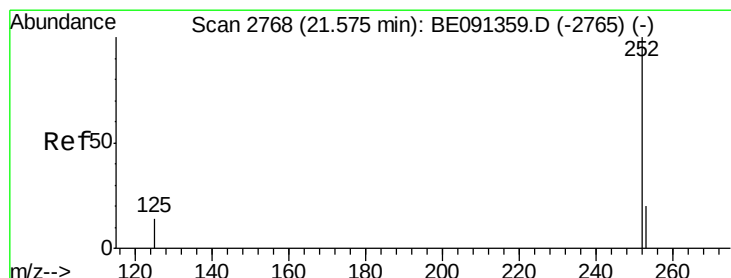
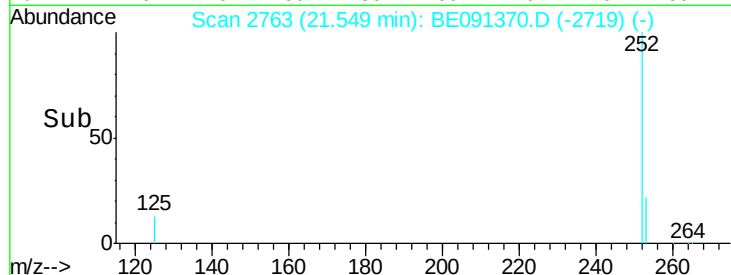
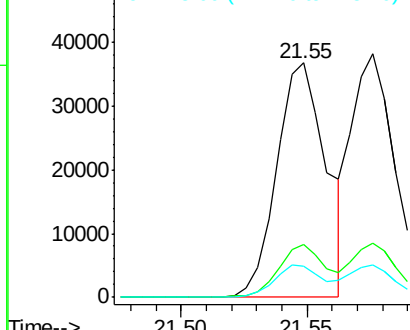
252 100

253 22.5 17.4 26.2

125 13.1 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: 1.04 ng

RT: 21.58 min Scan# 2769

Delta R.T. 0.00 min

Lab File: BE091370.D

Acq: 15 Jan 2016 3:17

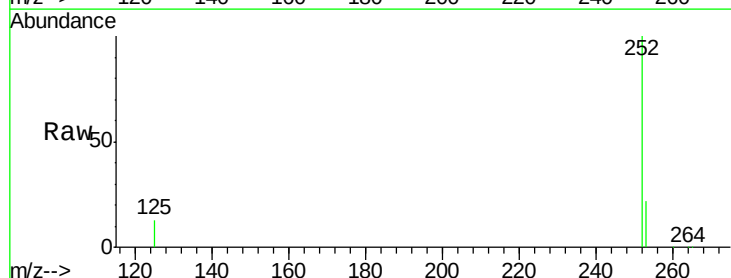
Tgt Ion:252 Resp: 49230

Ion Ratio Lower Upper

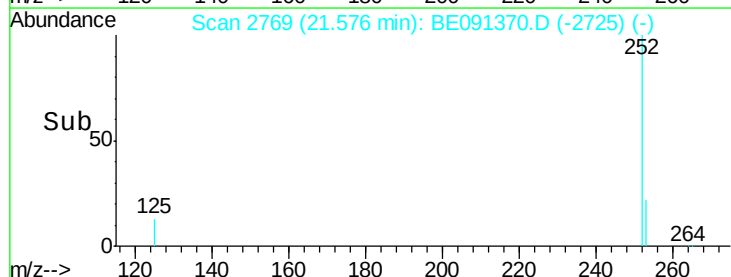
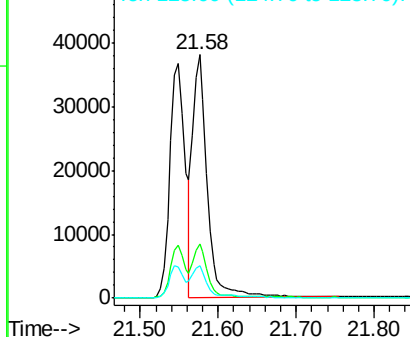
252 100

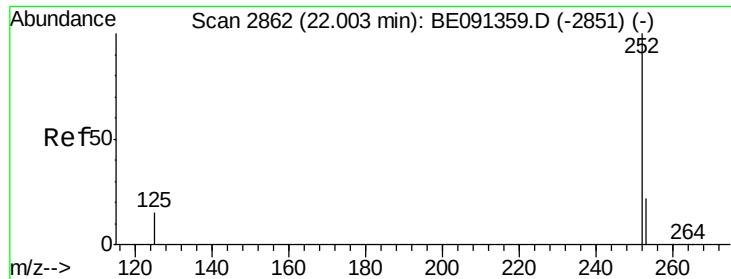
253 22.3 17.5 26.3

125 13.4 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: 1.08 ng

RT: 22.00 min Scan# 2863

Delta R.T. 0.00 min

Lab File: BE091370.D

Acq: 15 Jan 2016 3:17

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

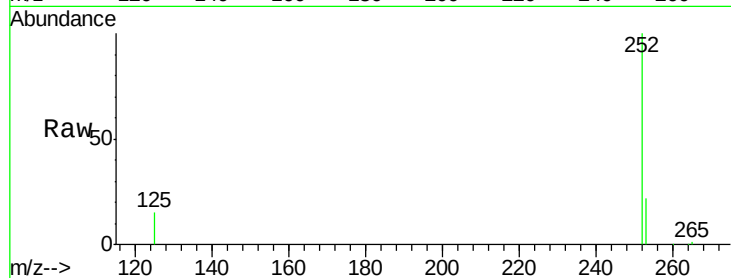
Tgt Ion: 252 Resp: 44425

Ion Ratio Lower Upper

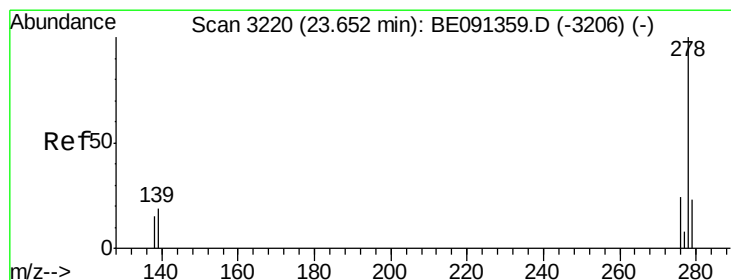
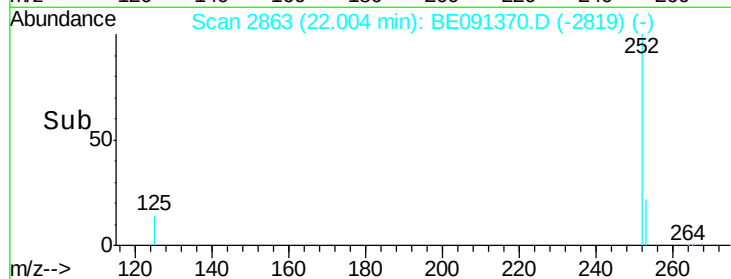
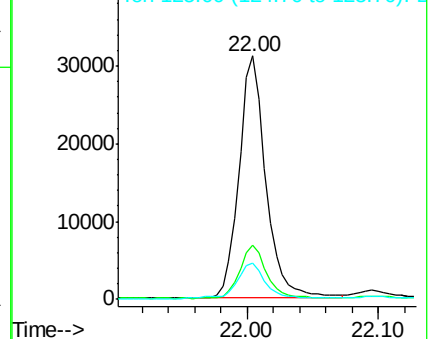
252 100

253 22.0 18.1 27.1

125 14.7 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: 1.22 ng

RT: 23.65 min Scan# 3221

Delta R.T. -0.00 min

Lab File: BE091370.D

Acq: 15 Jan 2016 3:17

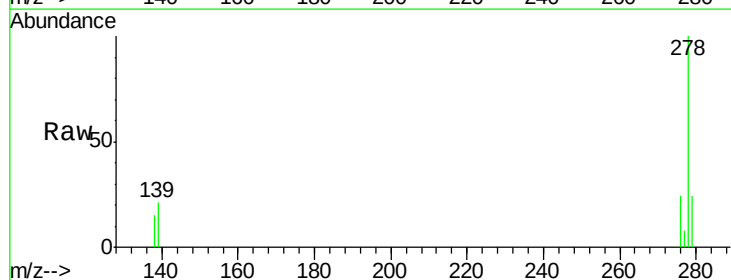
Tgt Ion: 278 Resp: 40092

Ion Ratio Lower Upper

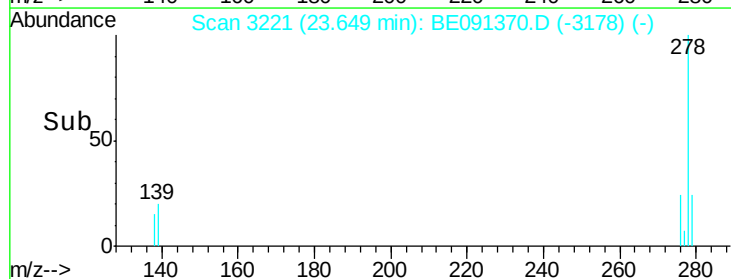
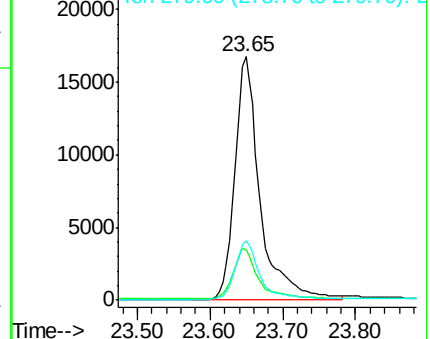
278 100

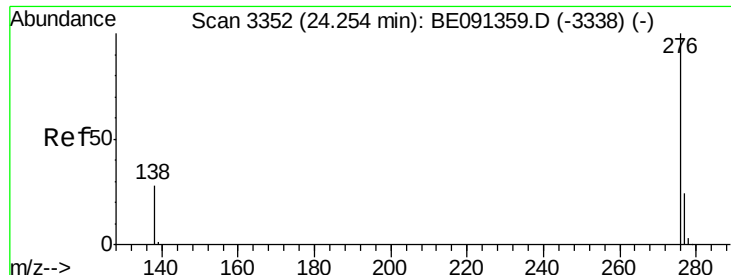
139 20.8 16.3 24.5

279 24.4 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





#29

Benzo(g,h,i)perylene

Concen: 1.15 ng

RT: 24.25 min Scan# 3353

Delta R.T. -0.00 min

Lab File: BE091370.D

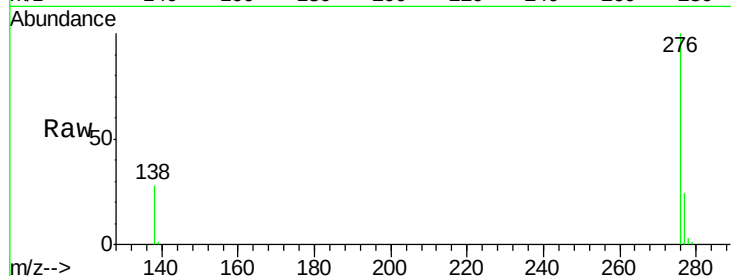
Acq: 15 Jan 2016 3:17

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC



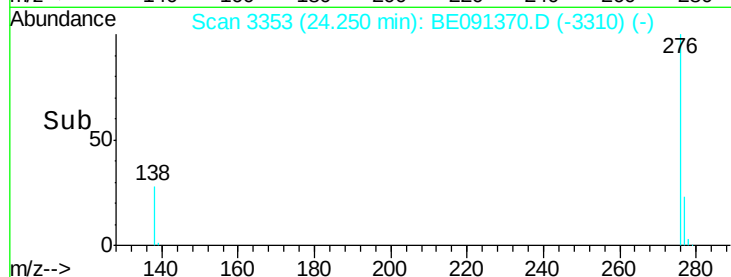
Tgt Ion: 276 Resp: 44319

Ion Ratio Lower Upper

276 100

277 23.6 19.8 29.6

138 28.1 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

