

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE052316\
 Data File : BE091849.D
 Acq On : 23 May 2016 16:16
 Operator : UM/SJ
 Sample : H3156-01
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SP-001-160517

Quant Time: May 24 02:21:06 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE051916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu May 19 15:36:49 2016
 Response via : Initial Calibration

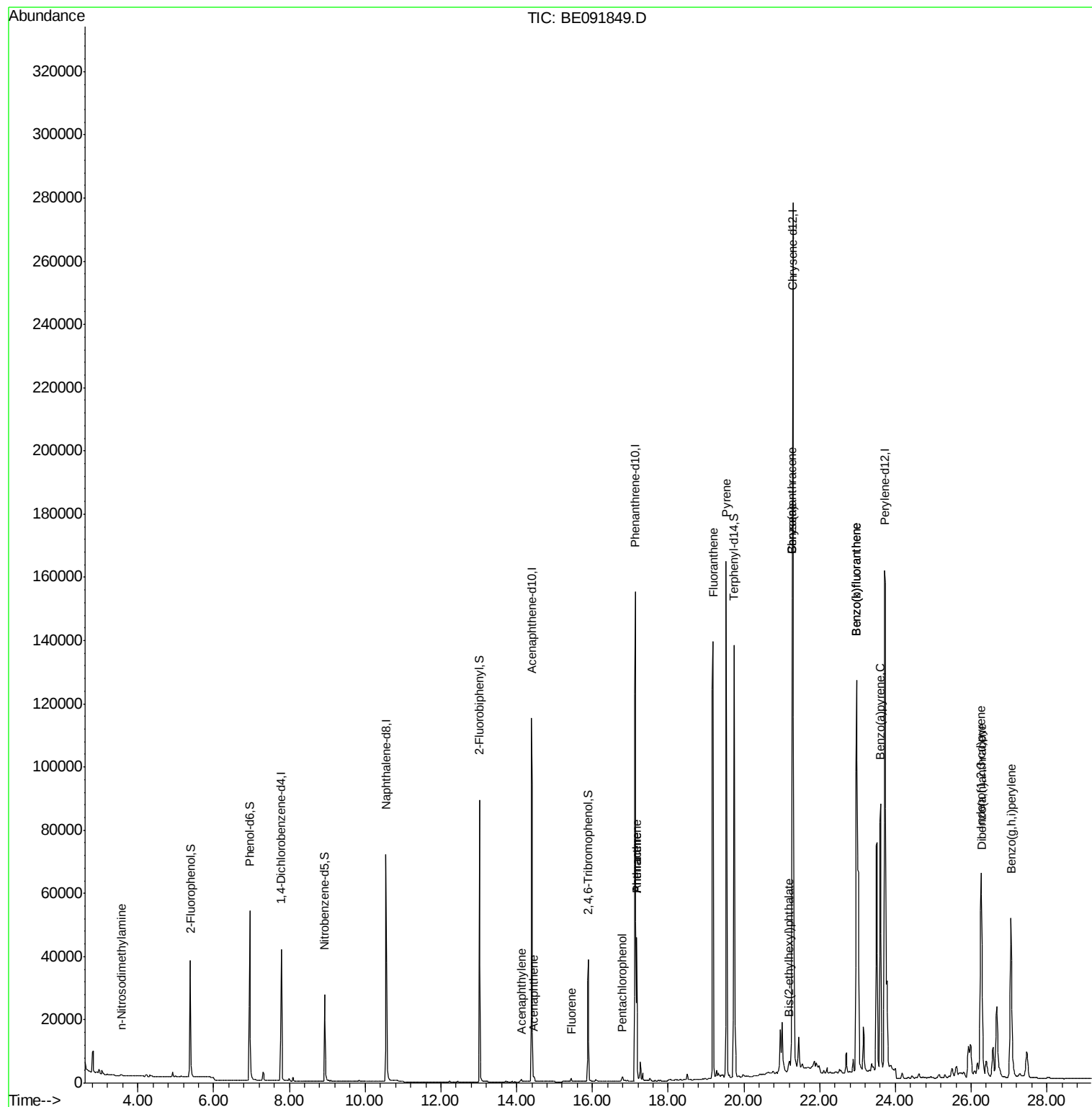
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.79	152	21010	5.00	ng	-0.02
7) Naphthalene-d8	10.55	136	112412	5.00	ng	-0.02
13) Acenaphthene-d10	14.39	164	79691	5.00	ng	-0.03
19) Phenanthrene-d10	17.14	188	206500	5.00	ng	-0.01
26) Chrysene-d12	21.29	240	288337	5.00	ng	-0.02
35) Perylene-d12	23.72	264	249399	5.00	ng	-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.39	112	37457	6.82	ng	0.00
5) Phenol-d6	6.95	99	62581	8.09	ng	0.00
8) Nitrobenzene-d5	8.93	82	27798	3.73	ng	-0.01
14) 2,4,6-Tribromophenol	15.89	330	26354	8.52	ng	-0.01
15) 2-Fluorobiphenyl	13.02	172	88571	3.93	ng	-0.01
29) Terphenyl-d14	19.74	244	162071	3.97	ng	-0.02
Target Compounds						Qvalue
3) n-Nitrosodimethylamine	3.56	42	231	0.07	ng	# 1
16) Acenaphthylene	14.12	152	2811	0.08	ng	# 88
17) Acenaphthene	14.46	154	806	0.04	ng	# 85
18) Fluorene	15.45	166	1072	0.04	ng	# 88
22) Pentachlorophenol	16.79	266	1366	0.41	ng	93
23) Phenanthrene	17.17	178	47142	1.08	ng	100
24) Anthracene	17.17	178	47149	1.05	ng	98
25) Fluoranthene	19.19	202	205884	3.75	ng	98
27) Benzidine	19.38	184	335	Below Cal		# 1
28) Pyrene	19.53	202	195390	3.09	ng	96
30) Benzo(a)anthracene	21.27	228	268490	3.86	ng	98
32) Chrysene	21.27	228	268304	4.50	ng	98
33) Bis(2-ethylhexyl)phthalate	21.20	149	4769	0.36	ng	# 85
34) Indeno(1,2,3-cd)pyrene	26.26	276	119874	1.68	ng	# 91
36) Benzo(b)fluoranthene	22.98	252	313782	5.03	ng	96
37) Benzo(k)fluoranthene	22.98	252	313782	4.91	ng	97
38) Benzo(a)pyrene	23.61	252	138797	2.33	ng	95
39) Dibenzo(a,h)anthracene	26.27	278	27677	0.48	ng	95
40) Benzo(g,h,i)perylene	27.05	276	124818	2.08	ng	95

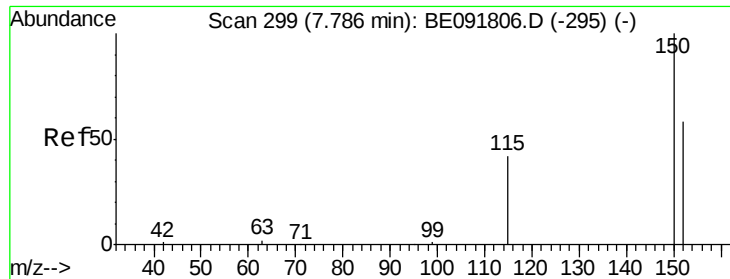
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.79 min Scan# 299

Delta R.T. -0.02 min

Lab File: BE091849.D

Acq: 23 May 2016 16:16

Instrument :

BNA_E

ClientSampleId :

SP-001-160517

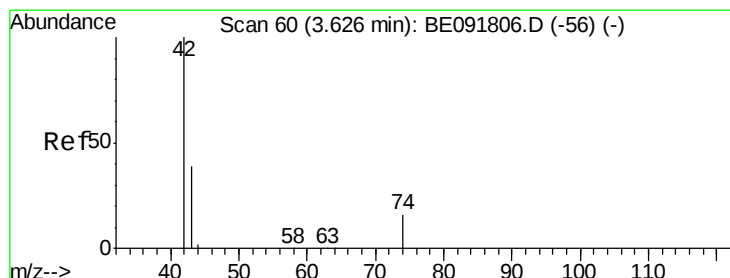
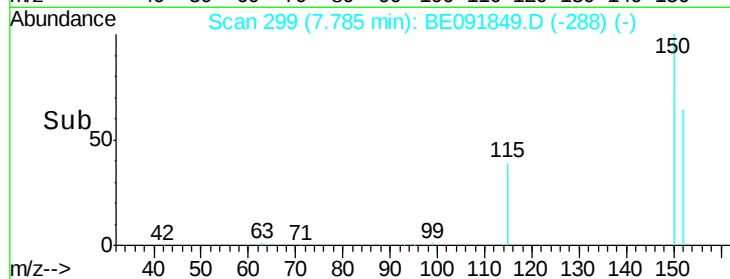
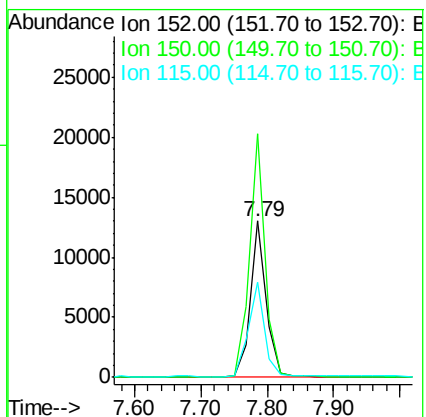
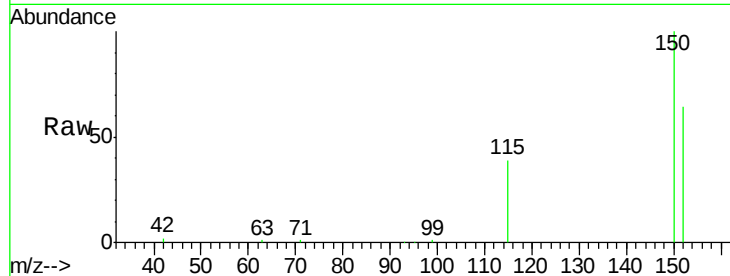
Tgt Ion:152 Resp: 21010

Ion Ratio Lower Upper

152 100

150 155.7 122.6 183.8

115 61.0 52.8 79.2



#3

n-Nitrosodimethylamine

Concen: 0.07 ng

RT: 3.56 min Scan# 56

Delta R.T. -0.07 min

Lab File: BE091849.D

Acq: 23 May 2016 16:16

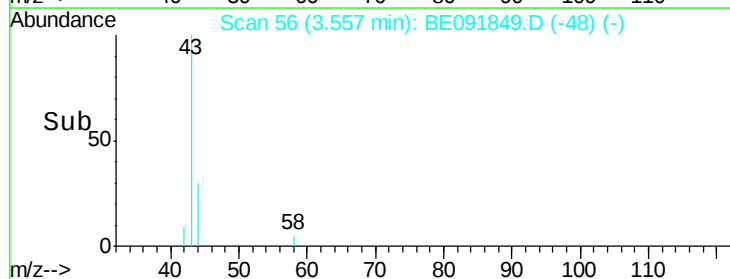
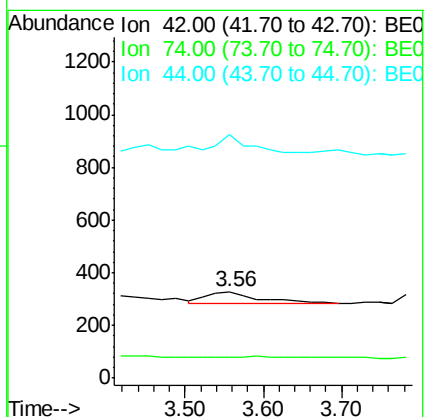
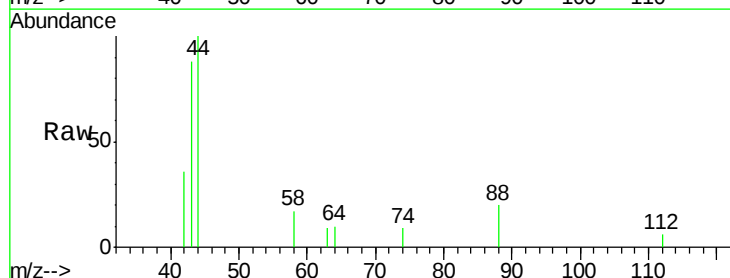
Tgt Ion: 42 Resp: 231

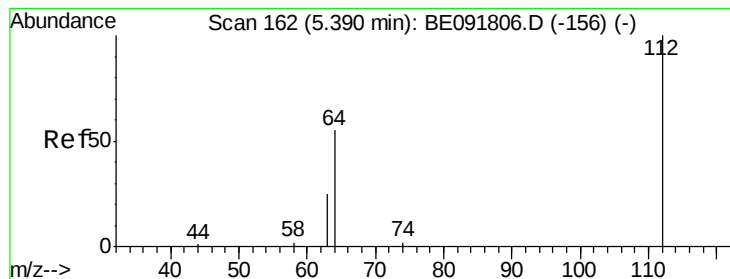
Ion Ratio Lower Upper

42 100

74 0.0 87.9 131.9#

44 88.7 6.6 9.8#





#4

2-Fluorophenol

Concen: 6.82 ng

RT: 5.39 min Scan# 162

Delta R.T. 0.00 min

Lab File: BE091849.D

Acq: 23 May 2016 16:16

Instrument :

BNA_E

ClientSampleId :

SP-001-160517

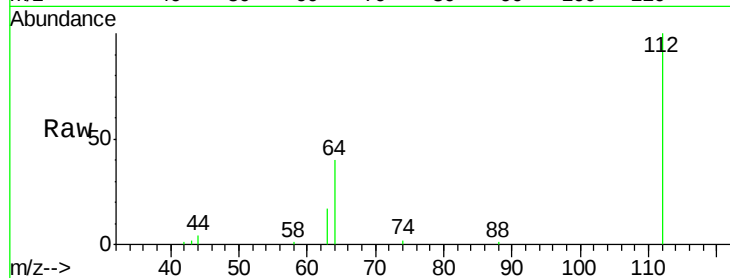
Tgt Ion: 112 Resp: 37457

Ion Ratio Lower Upper

112 100

64 67.4 30.9 46.3#

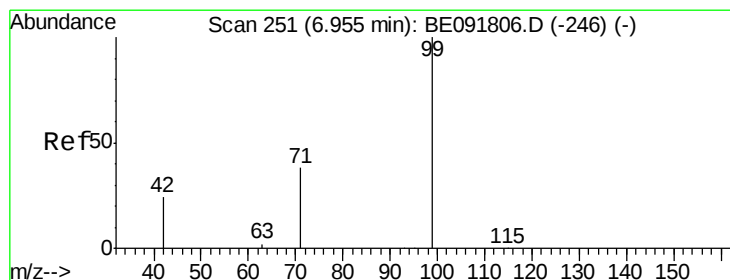
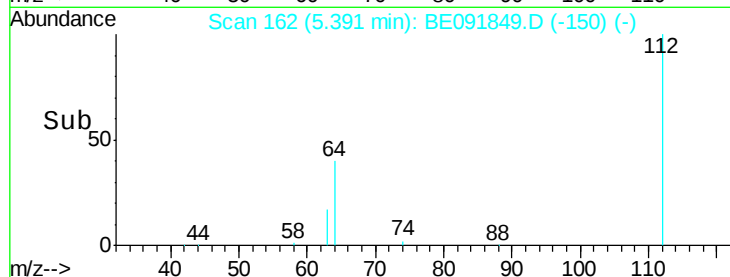
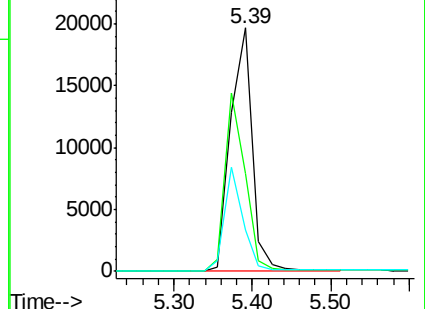
63 36.0 16.7 25.1#



Abundance Ion 112.00 (111.70 to 112.70): BE091806.D (-156) (-)

Ion 64.00 (63.70 to 64.70): BE091806.D (-156) (-)

Ion 63.00 (62.70 to 63.70): BE091806.D (-156) (-)



#5

Phenol-d6

Concen: 8.09 ng

RT: 6.95 min Scan# 251

Delta R.T. 0.00 min

Lab File: BE091849.D

Acq: 23 May 2016 16:16

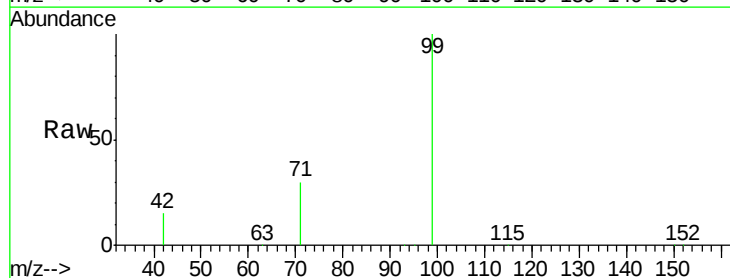
Tgt Ion: 99 Resp: 62581

Ion Ratio Lower Upper

99 100

42 22.9 16.2 24.2

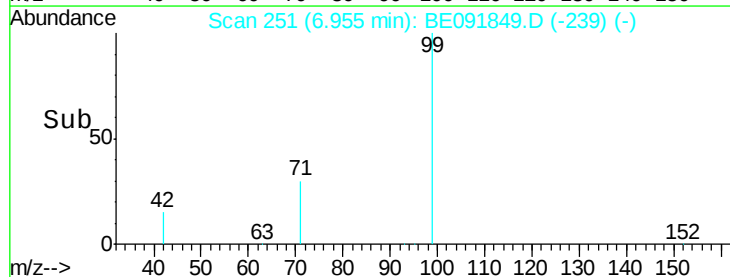
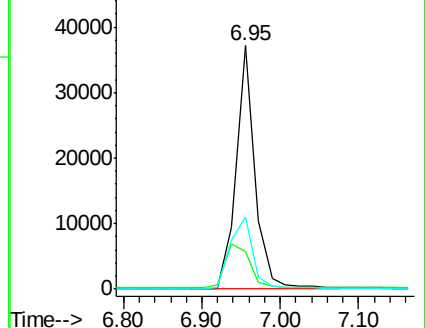
71 35.3 29.0 43.4

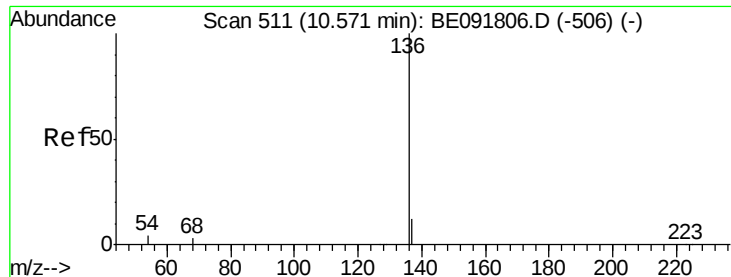


Abundance Ion 99.00 (98.70 to 99.70): BE091806.D (-246) (-)

Ion 42.00 (41.70 to 42.70): BE091806.D (-246) (-)

Ion 71.00 (70.70 to 71.70): BE091806.D (-246) (-)





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.55 min Scan# 510

Delta R.T. -0.02 min

Lab File: BE091849.D

Acq: 23 May 2016 16:16

Instrument :

BNA_E

ClientSampleId :

SP-001-160517

Tgt Ion: 136 Resp: 112412

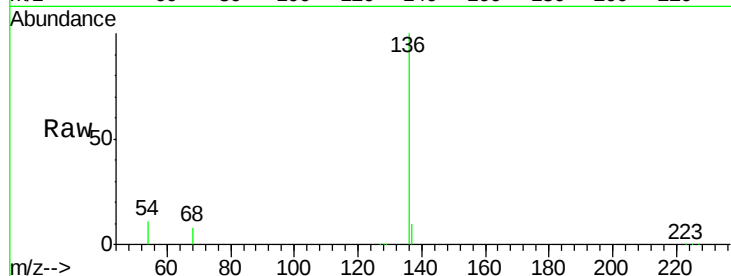
Ion Ratio Lower Upper

136 100

137 10.5 8.9 13.3

54 10.6 8.2 12.4

68 7.7 6.2 9.4

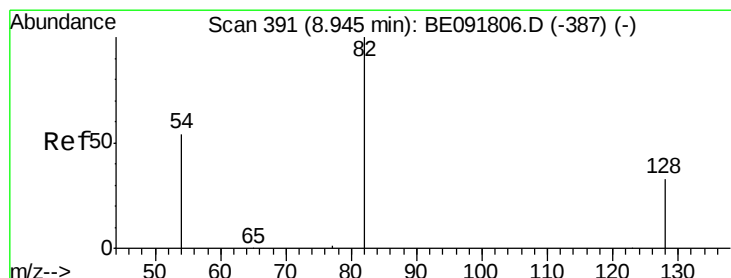
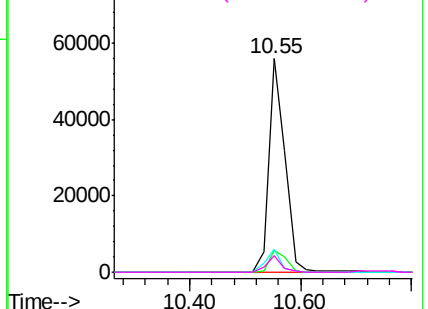
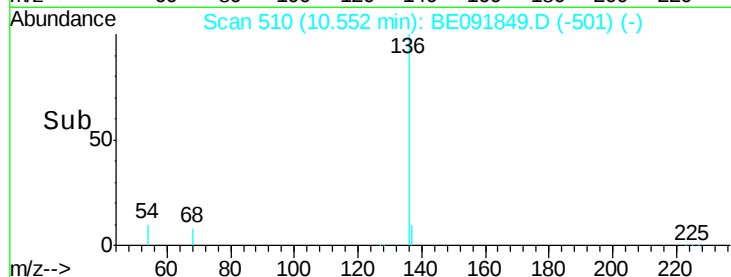


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



#8

Nitrobenzene-d5

Concen: 3.73 ng

RT: 8.93 min Scan# 390

Delta R.T. -0.01 min

Lab File: BE091849.D

Acq: 23 May 2016 16:16

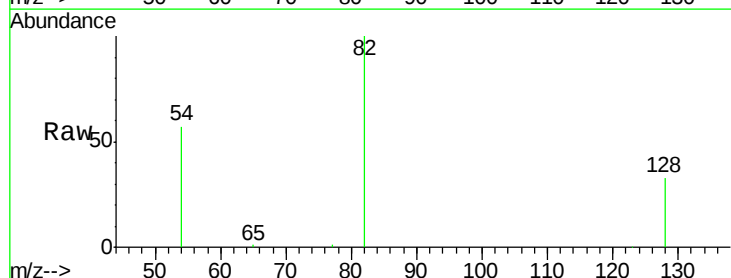
Tgt Ion: 82 Resp: 27798

Ion Ratio Lower Upper

82 100

128 33.1 25.4 38.0

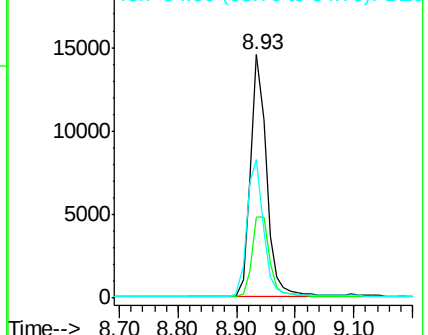
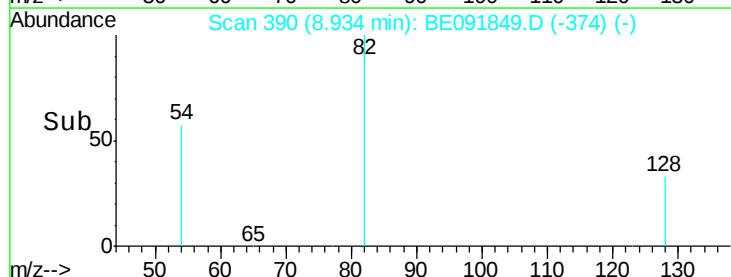
54 57.0 48.4 72.6

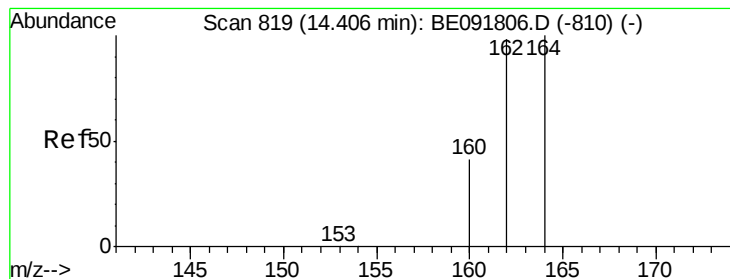


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#13

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.39 min Scan# 818

Delta R.T. -0.03 min

Lab File: BE091849.D

Acq: 23 May 2016 16:16

Instrument :

BNA_E

ClientSampleId :

SP-001-160517

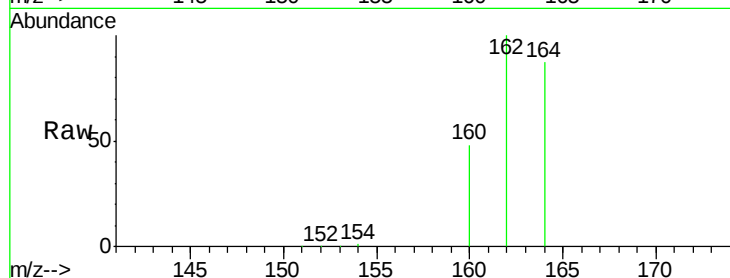
Tgt Ion:164 Resp: 79691

Ion Ratio Lower Upper

164 100

162 115.4 85.3 127.9

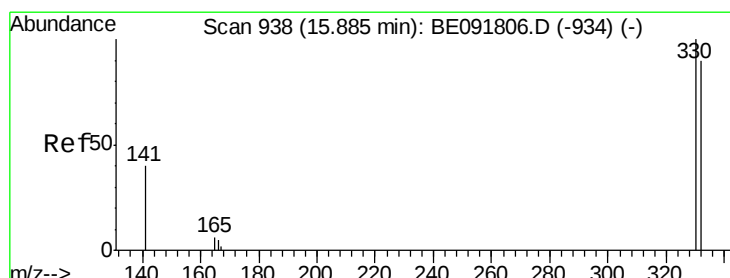
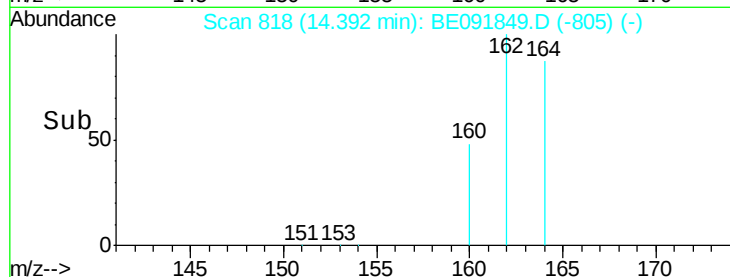
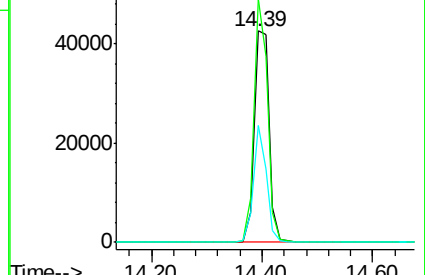
160 55.2 46.2 69.2



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#14

2,4,6-Tribromophenol

Concen: 8.52 ng

RT: 15.89 min Scan# 938

Delta R.T. -0.01 min

Lab File: BE091849.D

Acq: 23 May 2016 16:16

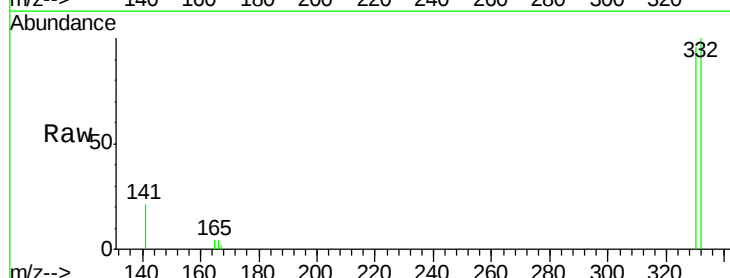
Tgt Ion:330 Resp: 26354

Ion Ratio Lower Upper

330 100

332 97.1 79.1 118.7

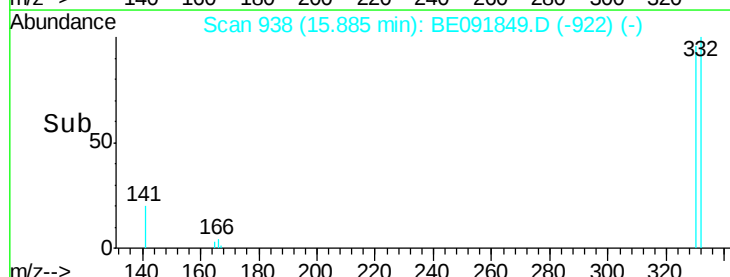
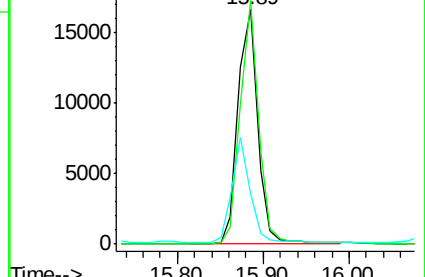
141 41.1 125.4 188.0#

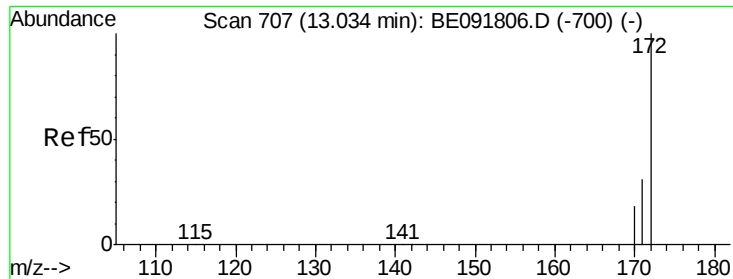


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

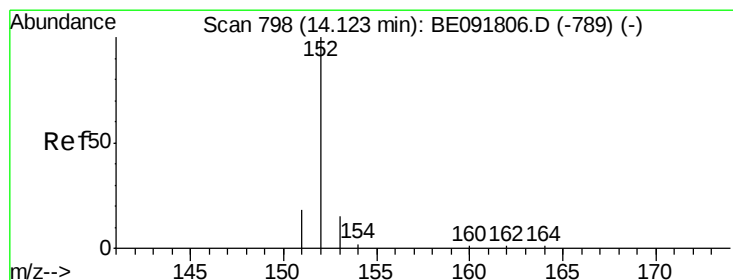
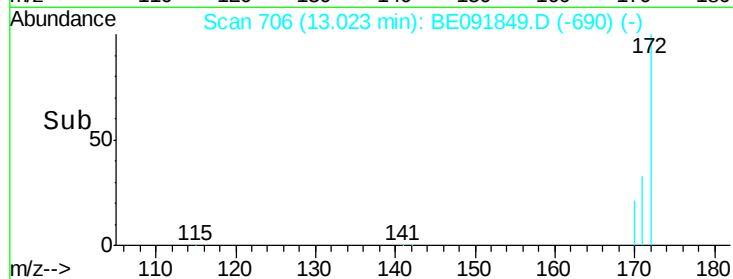
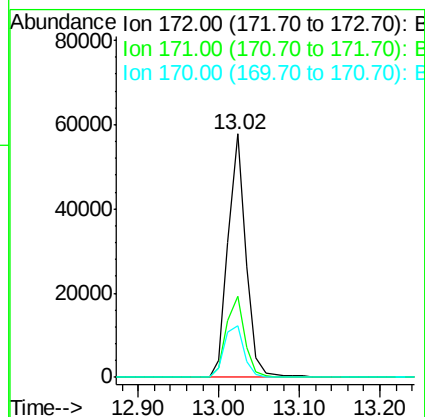
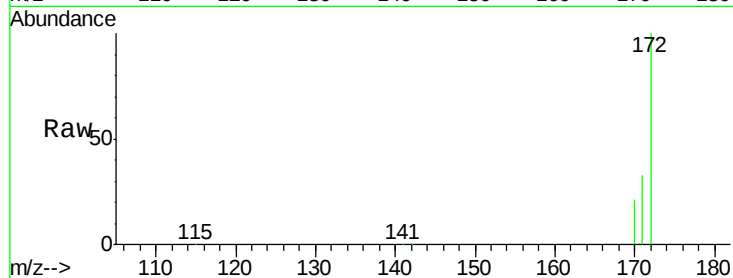




#15
2-Fluorobiphenyl
Concen: 3.93 ng
RT: 13.02 min Scan# 706
Delta R.T. -0.01 min
Lab File: BE091849.D
Acq: 23 May 2016 16:16

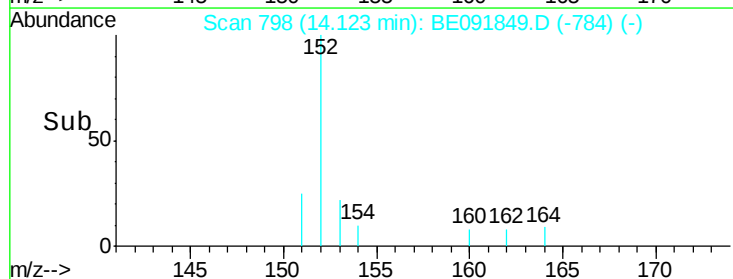
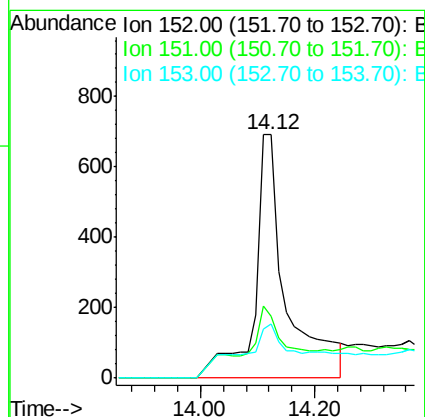
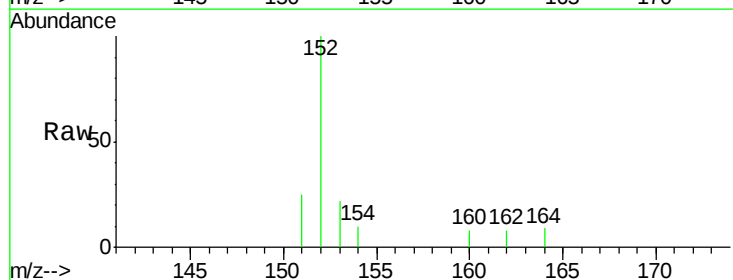
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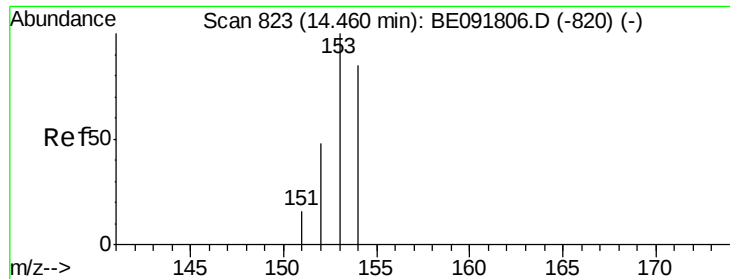
Tgt Ion:172 Resp: 88571
Ion Ratio Lower Upper
172 100
171 33.4 28.8 43.2
170 21.0 19.3 28.9



#16
Acenaphthylene
Concen: 0.08 ng
RT: 14.12 min Scan# 798
Delta R.T. 0.00 min
Lab File: BE091849.D
Acq: 23 May 2016 16:16

Tgt Ion:152 Resp: 2811
Ion Ratio Lower Upper
152 100
151 18.0 3.9 5.9#
153 12.2 10.3 15.5

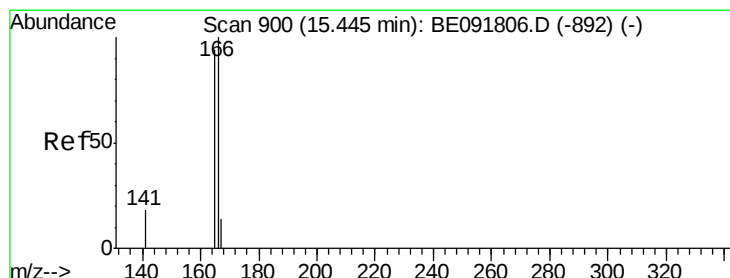
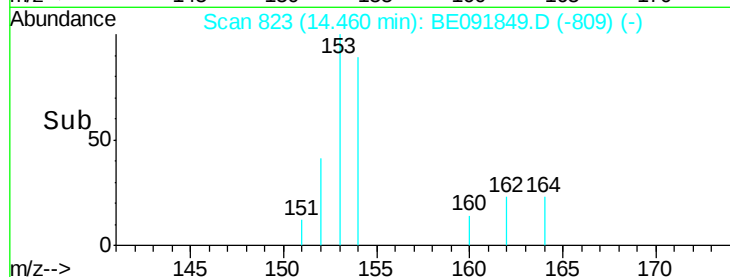
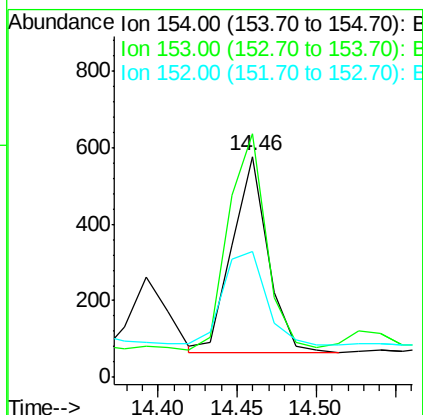
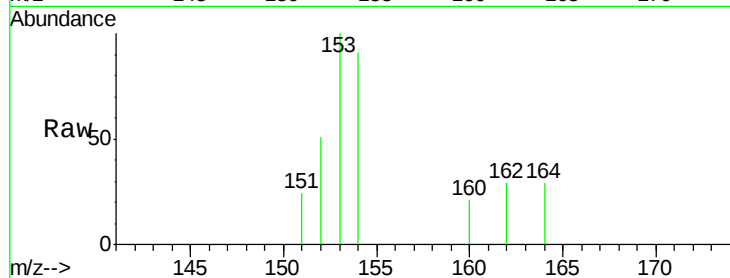




#17
Acenaphthene
Concen: 0.04 ng
RT: 14.46 min Scan# 823
Delta R.T. -0.01 min
Lab File: BE091849.D
Acq: 23 May 2016 16:16

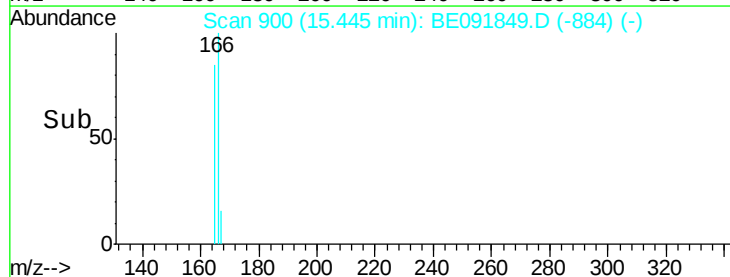
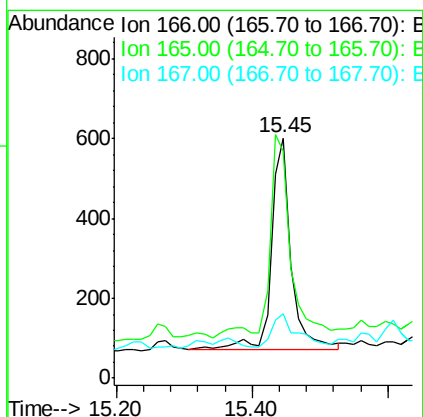
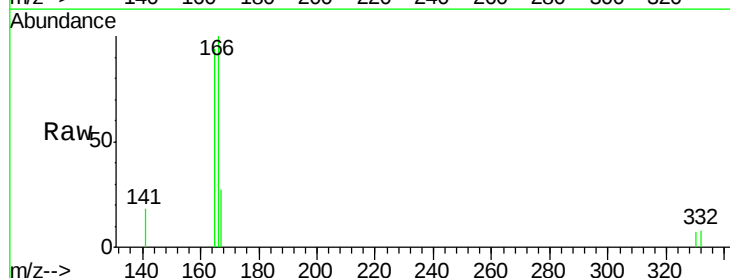
Instrument :
BNA_E
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SP-001-160517

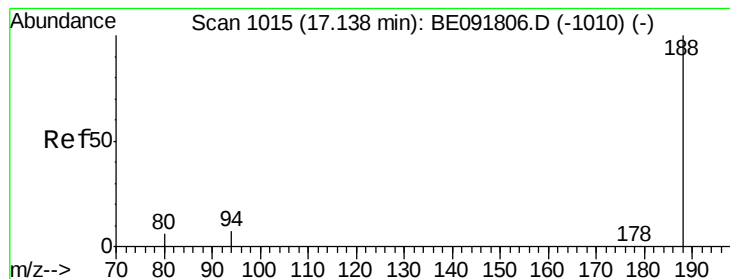
Tgt Ion:154 Resp: 806
Ion Ratio Lower Upper
154 100
153 116.5 80.0 120.0
152 57.3 40.0 60.0



#18
Fluorene
Concen: 0.04 ng
RT: 15.45 min Scan# 900
Delta R.T. -0.01 min
Lab File: BE091849.D
Acq: 23 May 2016 16:16

Tgt Ion:166 Resp: 1072
Ion Ratio Lower Upper
166 100
165 90.0 80.8 121.2
167 20.4 10.9 16.3#





#19

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.14 min Scan# 1014

Delta R.T. -0.01 min

Lab File: BE091849.D

Acq: 23 May 2016 16:16

Instrument :

BNA_E

ClientSampleId :

SP-001-160517

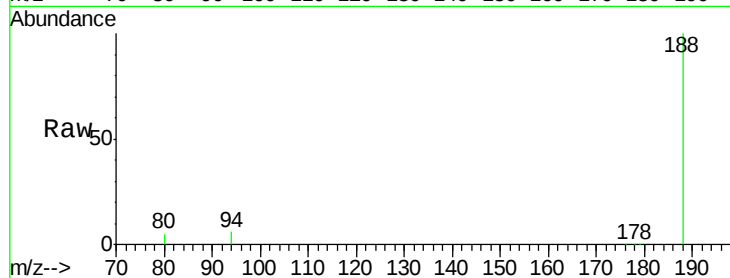
Tgt Ion:188 Resp: 206500

Ion Ratio Lower Upper

188 100

94 5.9 8.7 13.1#

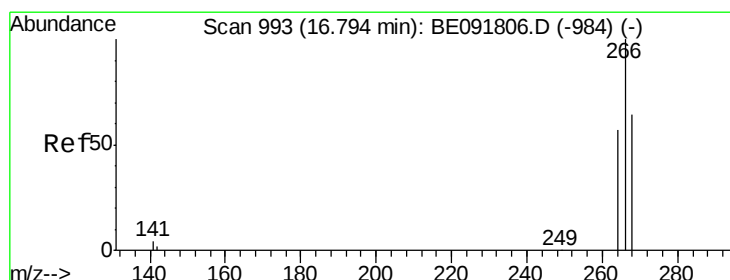
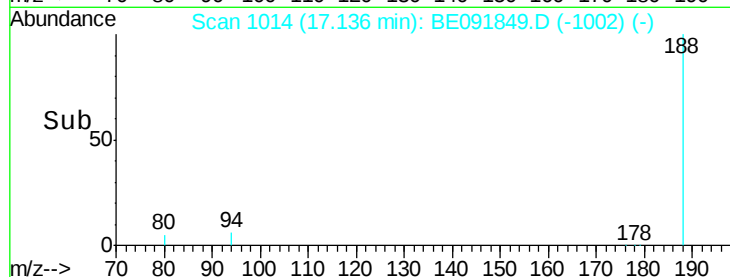
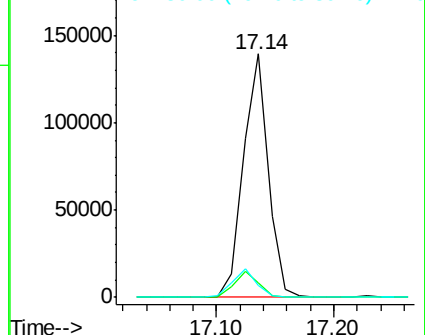
80 5.1 9.4 14.0#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#22

Pentachlorophenol

Concen: 0.41 ng

RT: 16.79 min Scan# 993

Delta R.T. 0.00 min

Lab File: BE091849.D

Acq: 23 May 2016 16:16

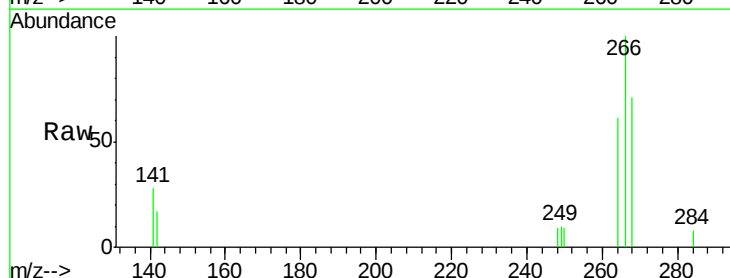
Tgt Ion:266 Resp: 1366

Ion Ratio Lower Upper

266 100

268 71.1 58.2 87.2

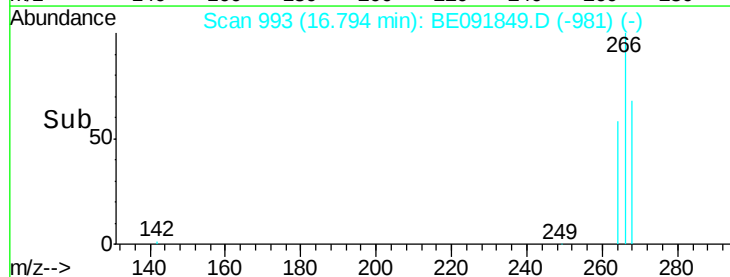
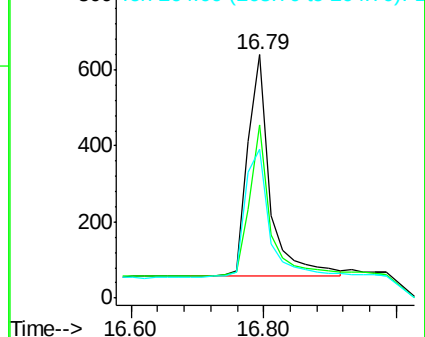
264 60.9 56.2 84.4

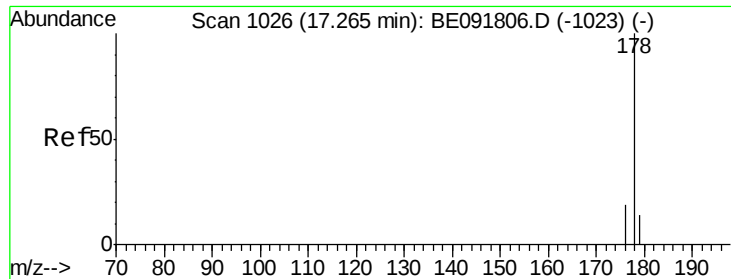


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E





#23

Phenanthrene

Concen: 1.08 ng

RT: 17.17 min Scan# 1017

Delta R.T. -0.01 min

Lab File: BE091849.D

Acq: 23 May 2016 16:16

Instrument :

BNA_E

ClientSampleId :

SP-001-160517

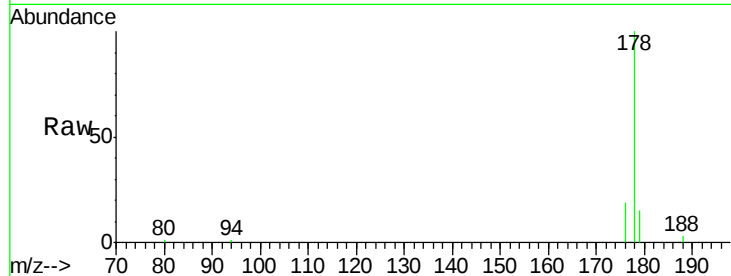
Tgt Ion:178 Resp: 47142

Ion Ratio Lower Upper

178 100

176 19.3 15.3 22.9

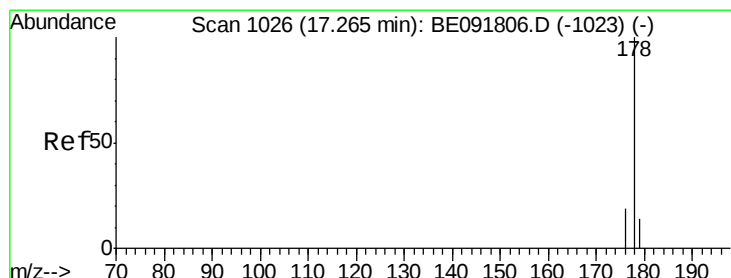
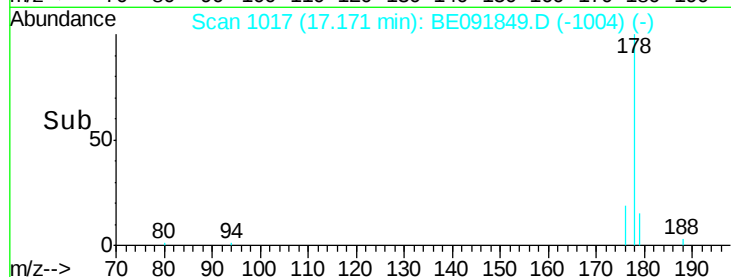
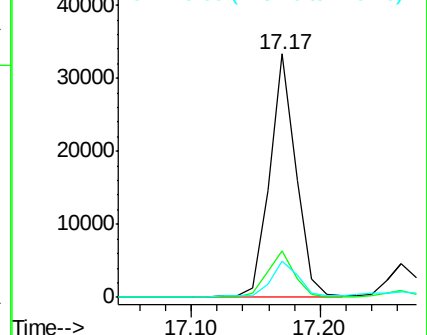
179 15.7 12.6 18.8



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



#24

Anthracene

Concen: 1.05 ng

RT: 17.17 min Scan# 1017

Delta R.T. -0.11 min

Lab File: BE091849.D

Acq: 23 May 2016 16:16

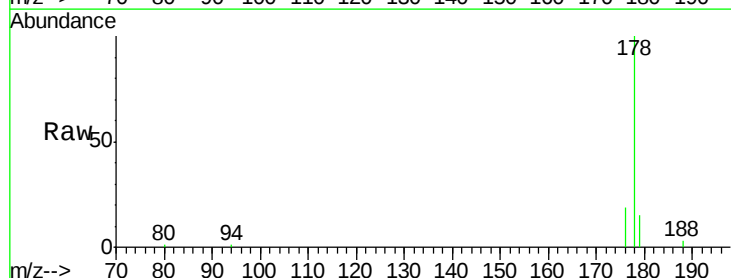
Tgt Ion:178 Resp: 47149

Ion Ratio Lower Upper

178 100

176 19.3 14.6 21.8

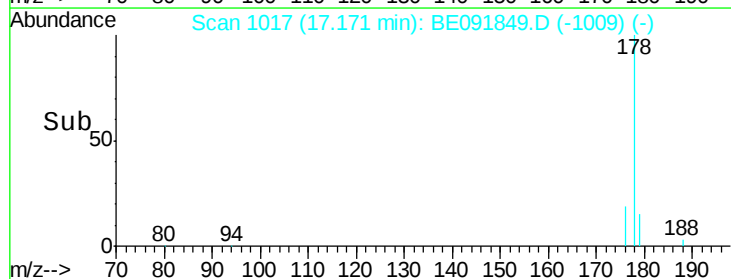
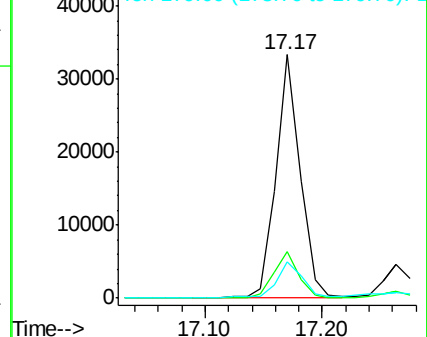
179 15.7 11.8 17.6

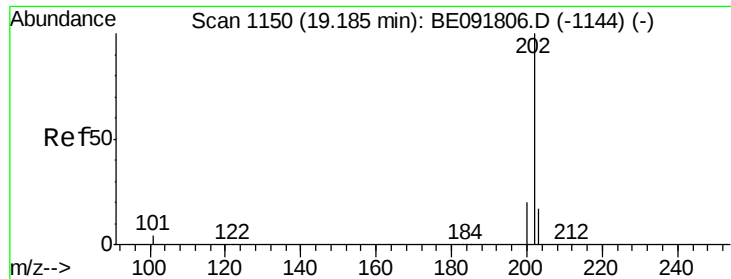


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene

Concen: 3.75 ng

RT: 19.19 min Scan# 1149

Delta R.T. -0.00 min

Lab File: BE091849.D

Acq: 23 May 2016 16:16

Instrument :

BNA_E

ClientSampleId :

SP-001-160517

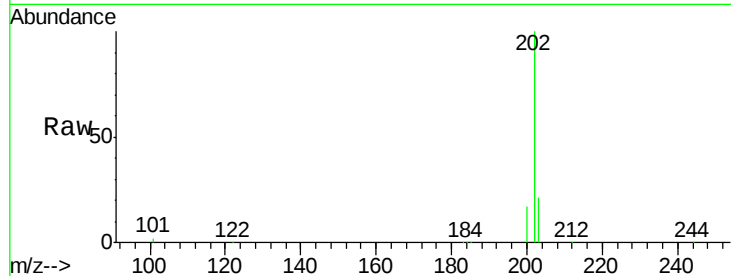
Tgt Ion: 202 Resp: 205884

Ion Ratio Lower Upper

202 100

101 11.9 11.0 16.6

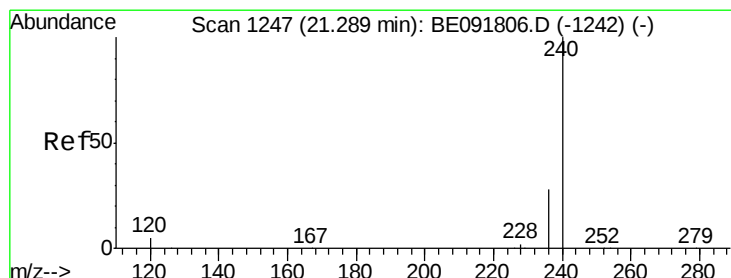
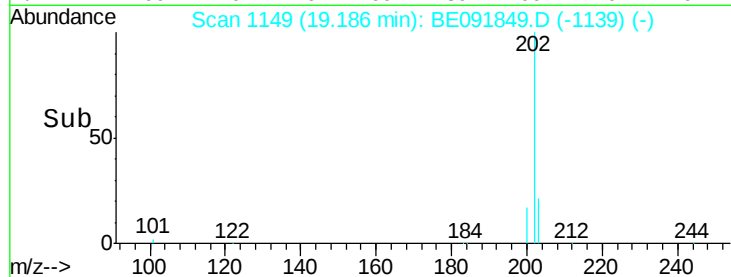
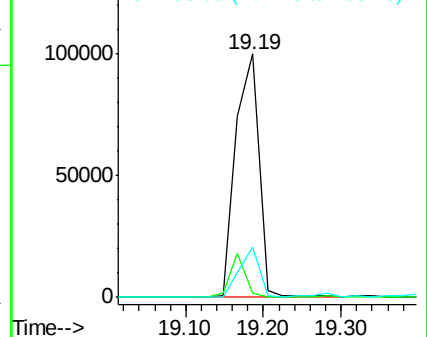
203 17.4 13.9 20.9



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#26

Chrysene-d12

Concen: 5.00 ng

RT: 21.29 min Scan# 1246

Delta R.T. -0.02 min

Lab File: BE091849.D

Acq: 23 May 2016 16:16

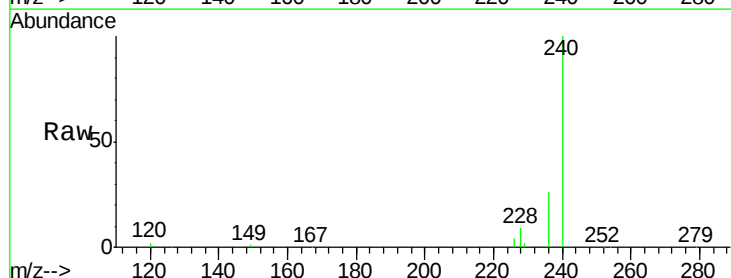
Tgt Ion: 240 Resp: 288337

Ion Ratio Lower Upper

240 100

120 2.3 11.0 16.4#

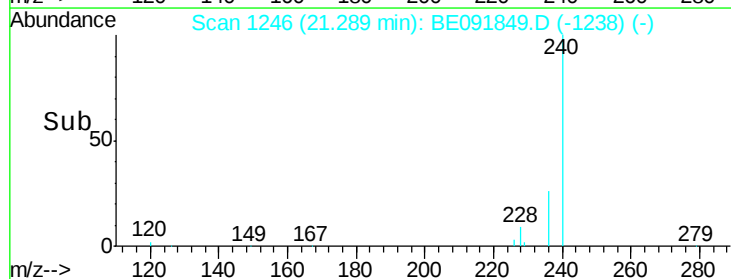
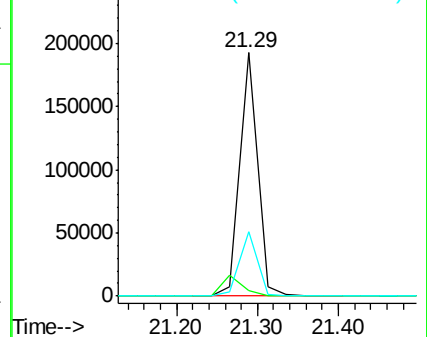
236 26.3 21.7 32.5

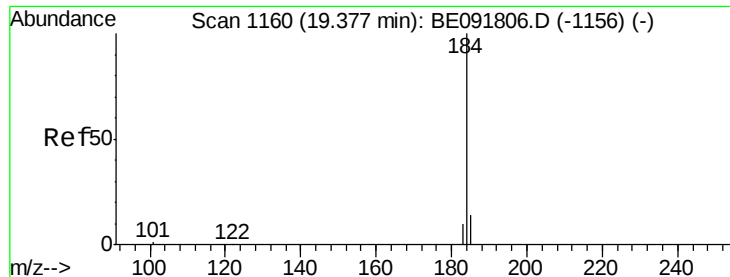


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#27

Benzidine

Concen: Below Cal

RT: 19.38 min Scan# 1159

Delta R.T. -0.00 min

Lab File: BE091849.D

Acq: 23 May 2016 16:16

Instrument :

BNA_E

ClientSampleId :

SP-001-160517

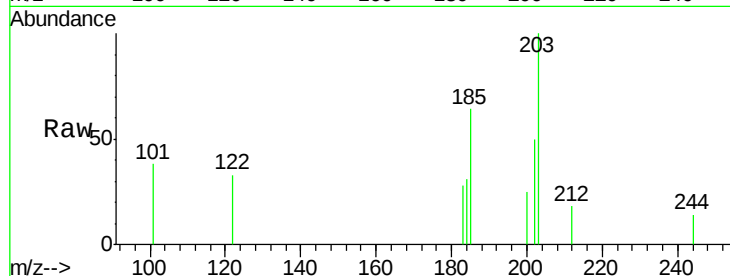
Tgt Ion:184 Resp: 335

Ion Ratio Lower Upper

184 100

185 209.6 22.3 33.5#

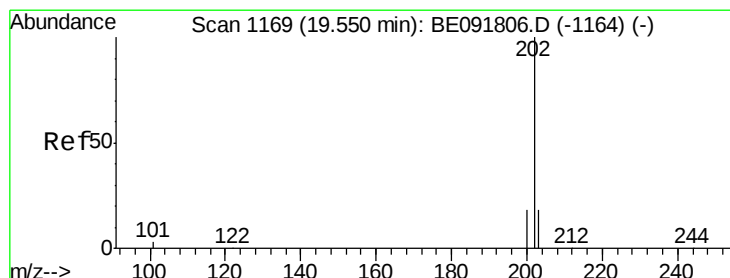
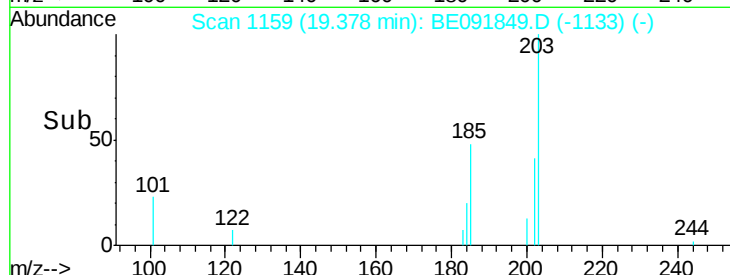
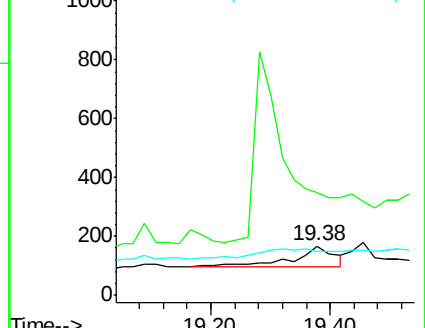
183 90.4 16.4 24.6#



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#28

Pyrene

Concen: 3.09 ng

RT: 19.53 min Scan# 1167

Delta R.T. -0.02 min

Lab File: BE091849.D

Acq: 23 May 2016 16:16

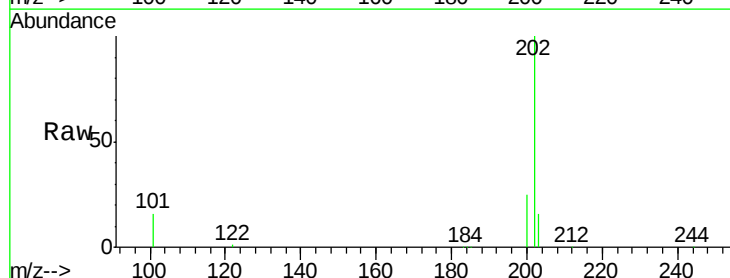
Tgt Ion:202 Resp: 195390

Ion Ratio Lower Upper

202 100

200 21.8 16.8 25.2

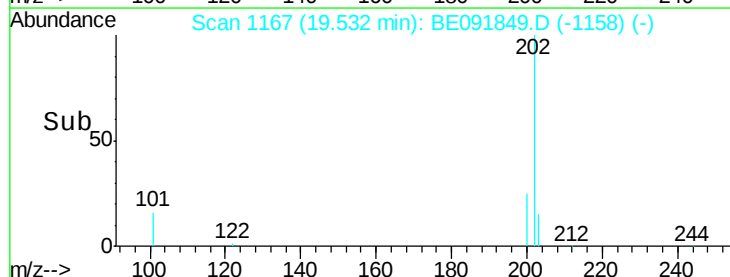
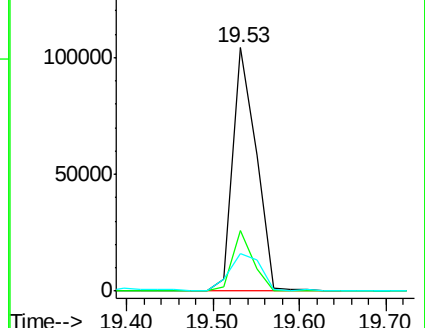
203 20.9 14.0 21.0

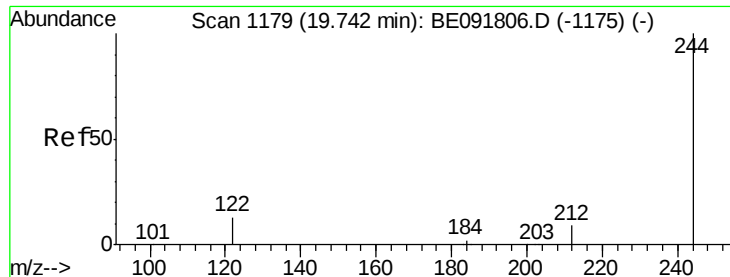


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 3.97 ng

RT: 19.74 min Scan# 1178

Delta R.T. -0.02 min

Lab File: BE091849.D

Acq: 23 May 2016 16:16

Instrument :

BNA_E

ClientSampleId :

SP-001-160517

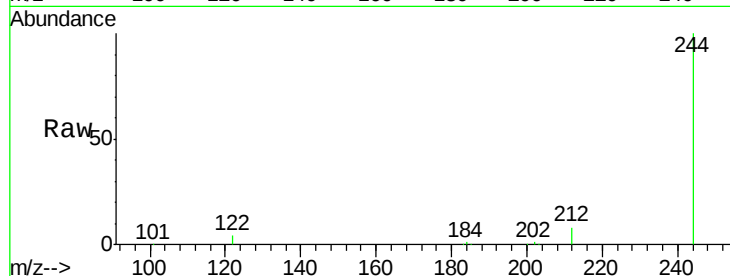
Tgt Ion:244 Resp: 162071

Ion Ratio Lower Upper

244 100

212 8.0 6.9 10.3

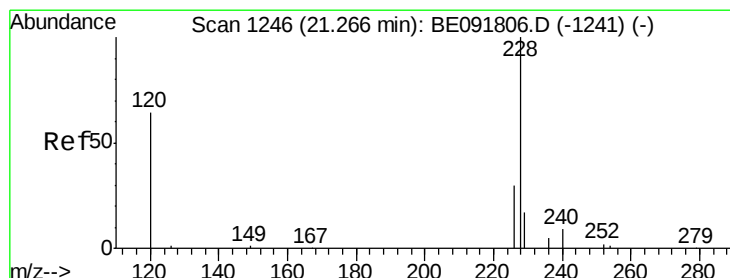
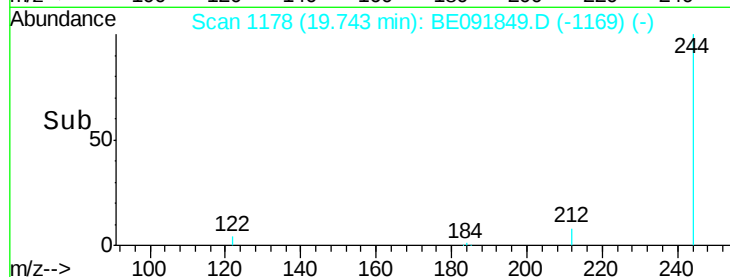
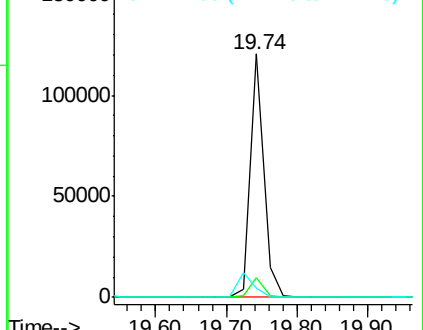
122 3.8 11.0 16.4#



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



#30

Benzo(a)anthracene

Concen: 3.86 ng

RT: 21.27 min Scan# 1245

Delta R.T. -0.02 min

Lab File: BE091849.D

Acq: 23 May 2016 16:16

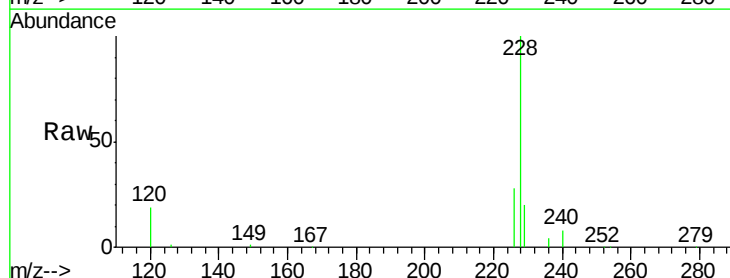
Tgt Ion:228 Resp: 268490

Ion Ratio Lower Upper

228 100

226 27.8 21.0 31.4

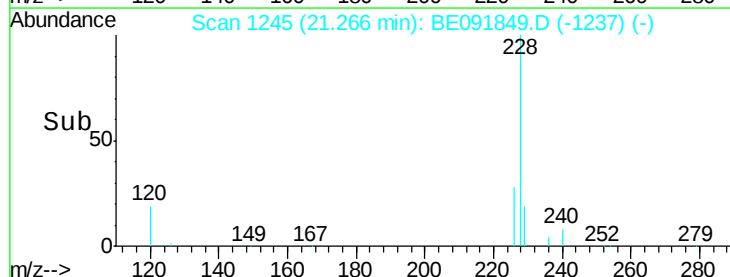
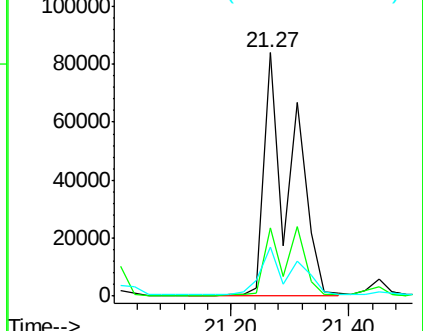
229 19.9 15.7 23.5

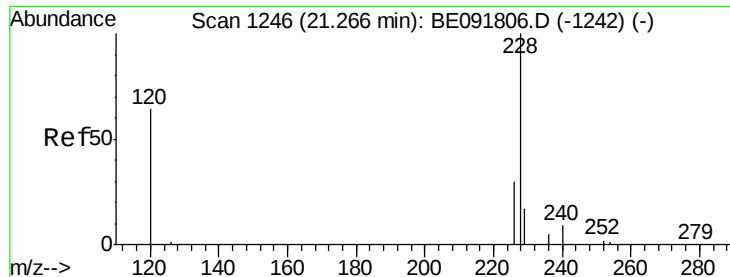


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#32

Chrysene

Concen: 4.50 ng

RT: 21.27 min Scan# 1245

Delta R.T. -0.07 min

Lab File: BE091849.D

Acq: 23 May 2016 16:16

Instrument :

BNA_E

ClientSampleId :

SP-001-160517

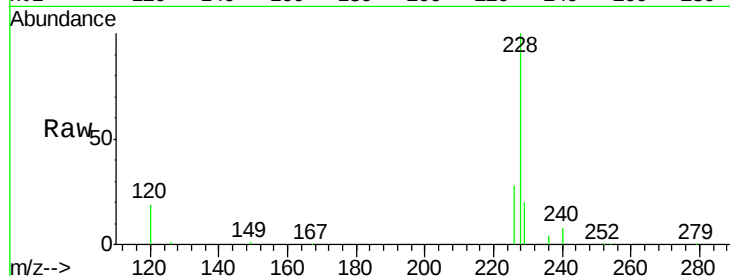
Tgt Ion:228 Resp: 268304

Ion Ratio Lower Upper

228 100

226 27.8 24.0 36.0

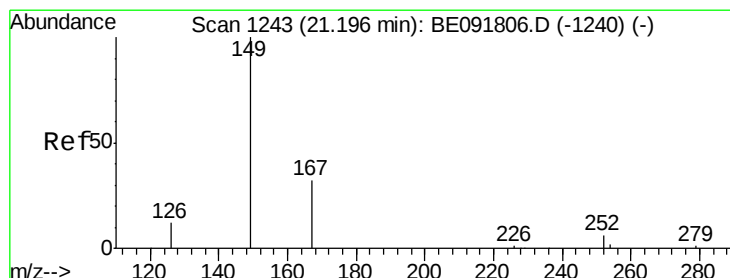
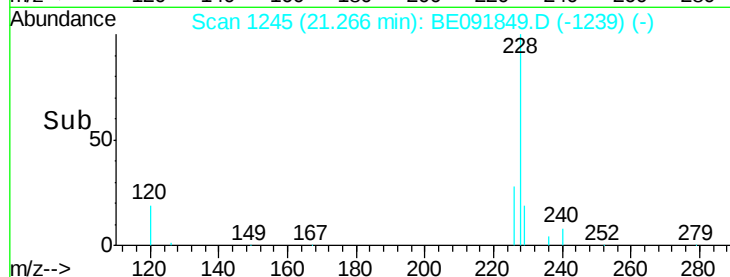
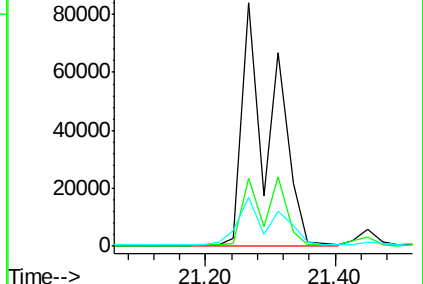
229 19.9 15.9 23.9



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#33

Bis(2-ethylhexyl)phthalate

Concen: 0.36 ng

RT: 21.20 min Scan# 1242

Delta R.T. -0.02 min

Lab File: BE091849.D

Acq: 23 May 2016 16:16

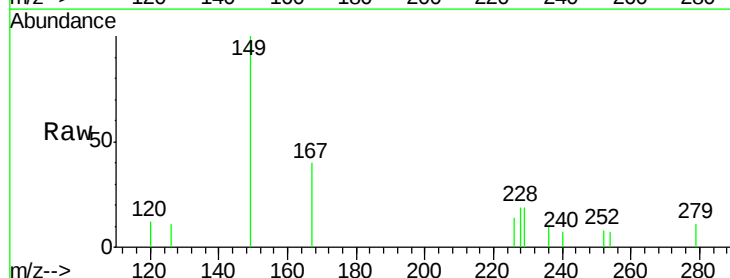
Tgt Ion:149 Resp: 4769

Ion Ratio Lower Upper

149 100

167 30.5 19.5 29.3#

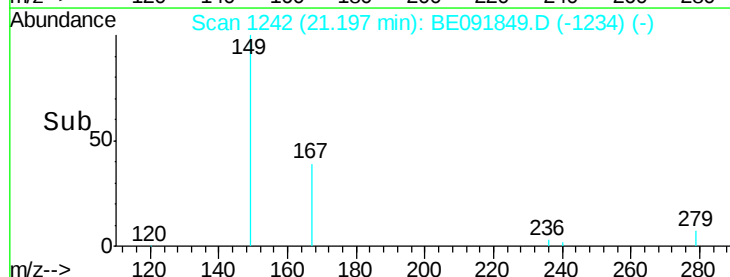
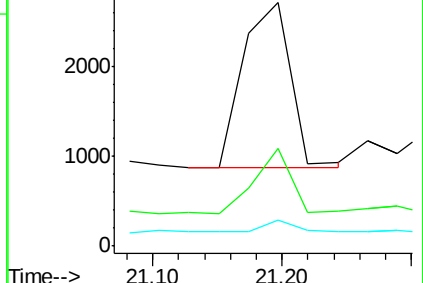
279 4.7 10.0 15.0#

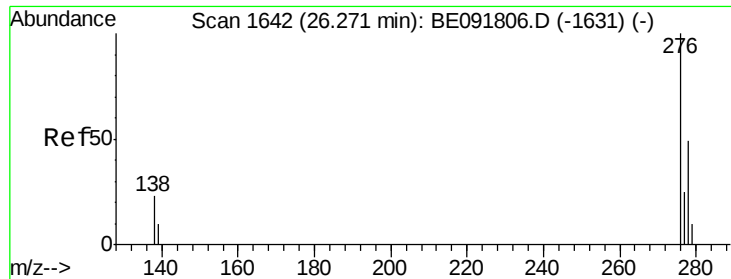


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

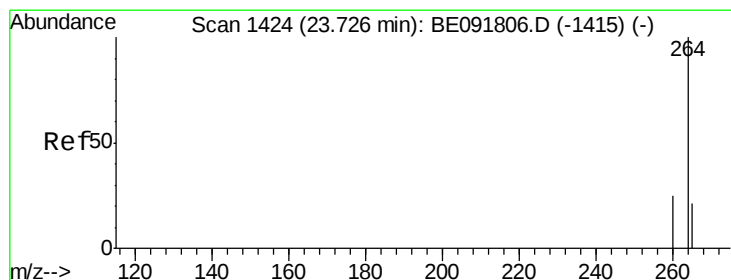
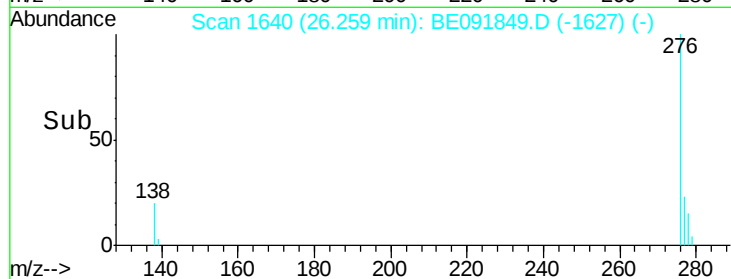
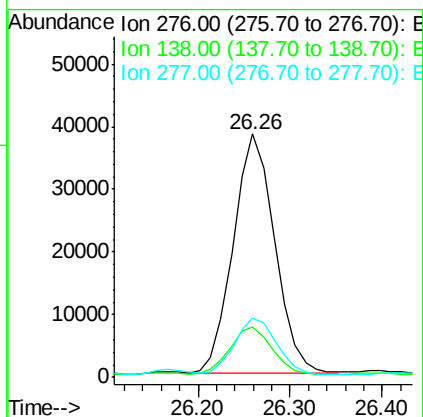
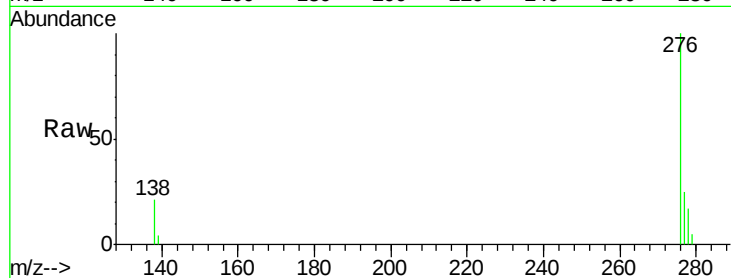




#34
 Indeno(1,2,3-cd)pyrene
 Concen: 1.68 ng
 RT: 26.26 min Scan# 1640
 Delta R.T. -0.05 min
 Lab File: BE091849.D
 Acq: 23 May 2016 16:16

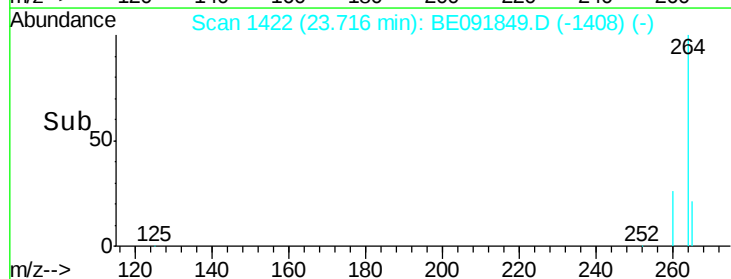
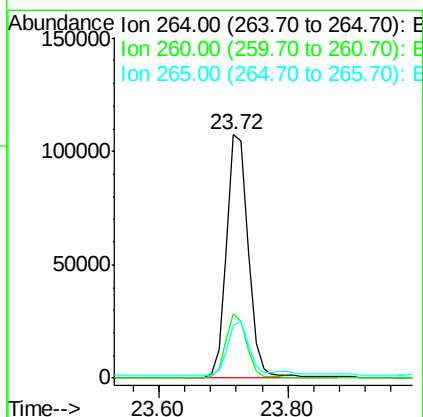
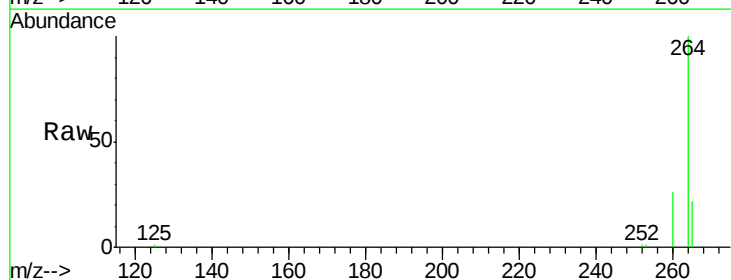
Instrument :
 BNA_E
 ClientSampleId :
 SP-001-160517

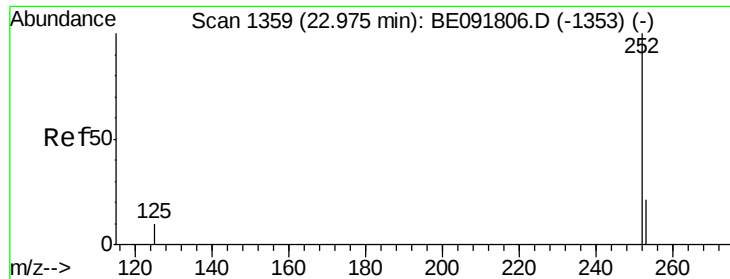
Tgt Ion: 276 Resp: 119874
 Ion Ratio Lower Upper
 276 100
 138 20.4 23.4 35.2#
 277 24.4 19.8 29.8



#35
 Perylene-d12
 Concen: 5.00 ng
 RT: 23.72 min Scan# 1422
 Delta R.T. -0.03 min
 Lab File: BE091849.D
 Acq: 23 May 2016 16:16

Tgt Ion: 264 Resp: 249399
 Ion Ratio Lower Upper
 264 100
 260 26.5 20.0 30.0
 265 21.5 17.5 26.3





#36

Benzo(b)fluoranthene

Concen: 5.03 ng

RT: 22.98 min Scan# 1358

Delta R.T. -0.02 min

Lab File: BE091849.D

Acq: 23 May 2016 16:16

Instrument :

BNA_E

ClientSampleId :

SP-001-160517

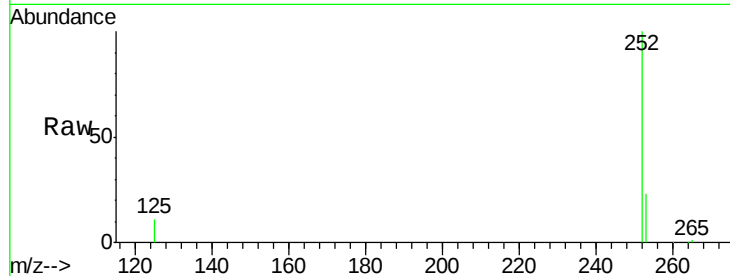
Tgt Ion:252 Resp: 313782

Ion Ratio Lower Upper

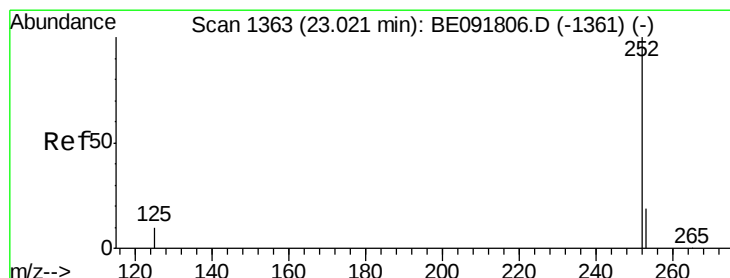
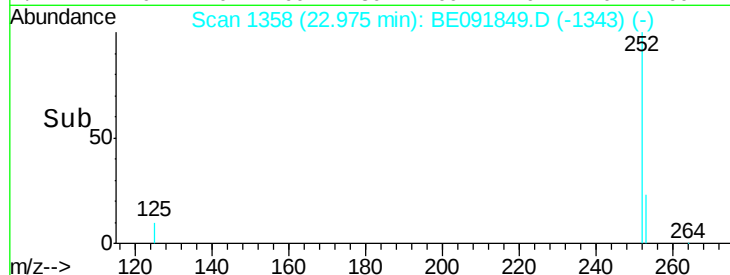
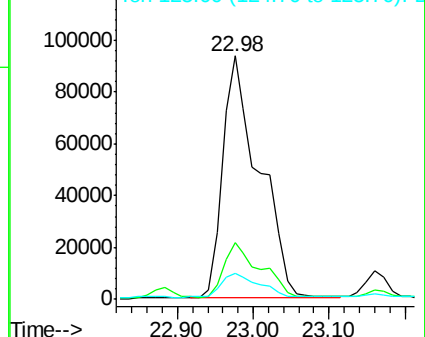
252 100

253 23.1 17.4 26.0

125 10.7 10.2 15.2



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



#37

Benzo(k)fluoranthene

Concen: 4.91 ng

RT: 22.98 min Scan# 1358

Delta R.T. -0.07 min

Lab File: BE091849.D

Acq: 23 May 2016 16:16

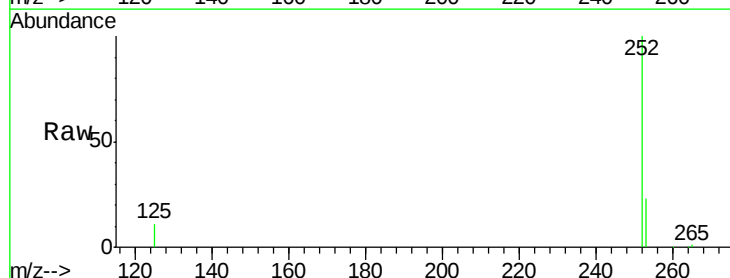
Tgt Ion:252 Resp: 313782

Ion Ratio Lower Upper

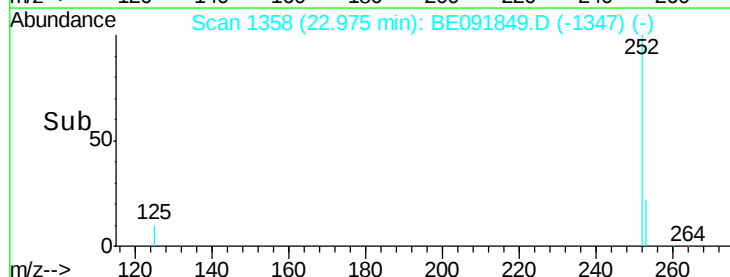
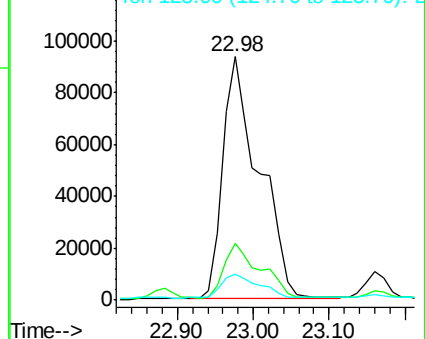
252 100

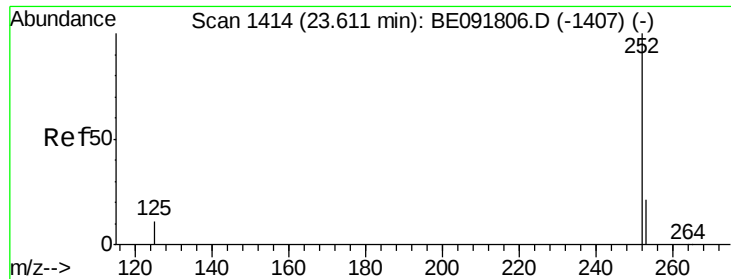
253 23.1 17.6 26.4

125 10.7 9.9 14.9



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





#38

Benzo(a)pyrene

Concen: 2.33 ng

RT: 23.61 min Scan# 1413

Delta R.T. -0.02 min

Lab File: BE091849.D

Acq: 23 May 2016 16:16

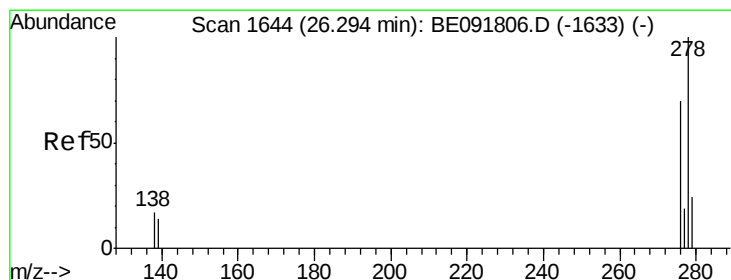
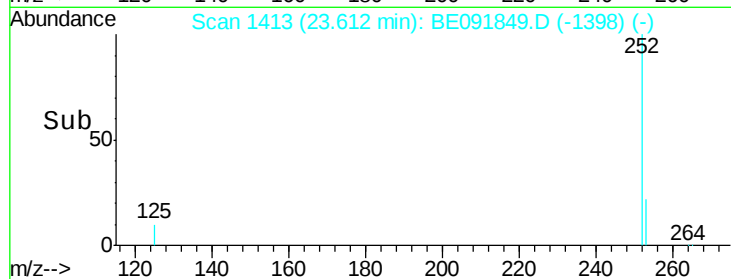
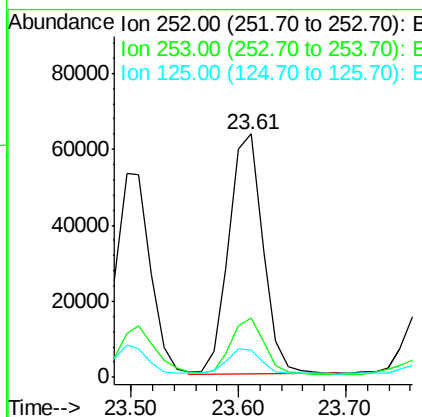
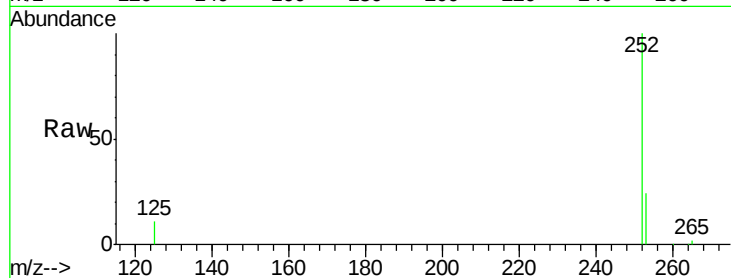
Instrument :

BNA_E

ClientSampleId :

SP-001-160517

Tgt Ion:	252	Resp:	138797
Ion	Ratio	Lower	Upper
252	100		
253	24.3	18.1	27.1
125	11.0	11.0	16.4



#39

Dibenzo(a,h)anthracene

Concen: 0.48 ng

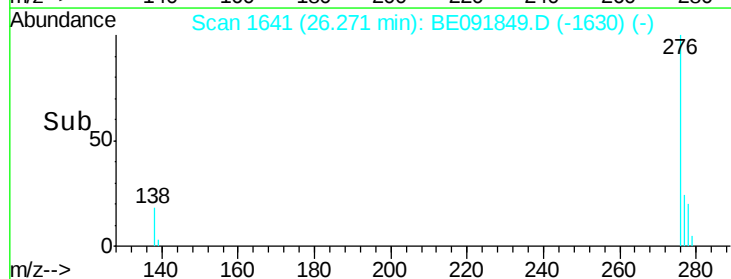
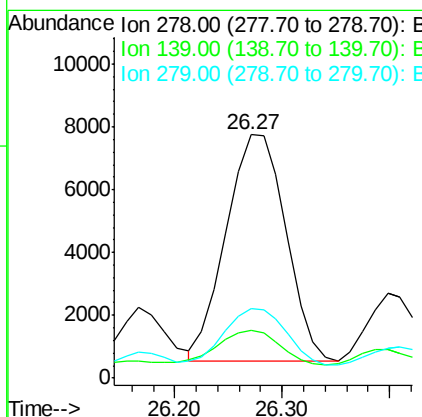
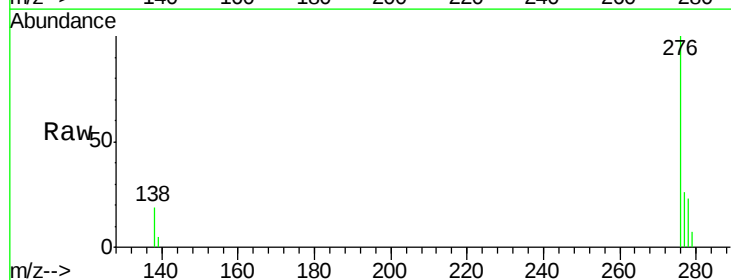
RT: 26.27 min Scan# 1641

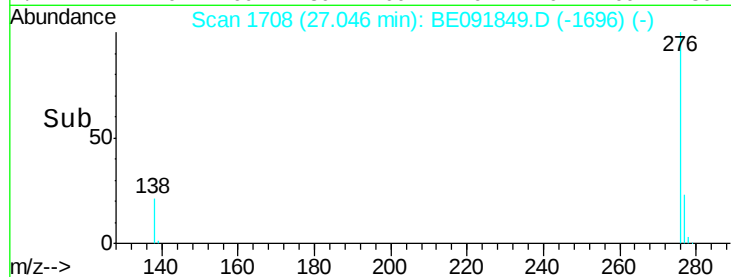
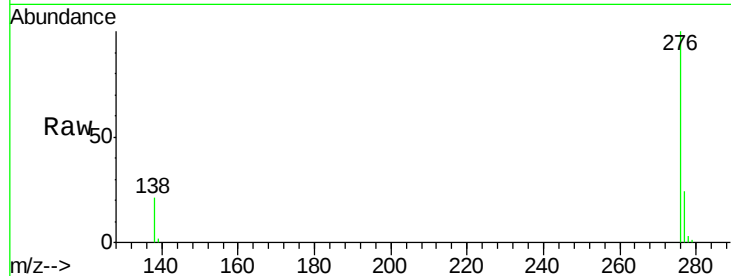
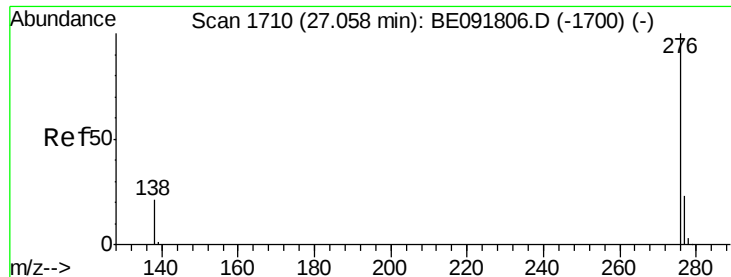
Delta R.T. -0.07 min

Lab File: BE091849.D

Acq: 23 May 2016 16:16

Tgt Ion:	278	Resp:	27677
Ion	Ratio	Lower	Upper
278	100		
139	19.4	16.0	24.0
279	28.6	19.4	29.2





#40

Benzo(g,h,i)perylene

Concen: 2.08 ng

RT: 27.05 min Scan# 1708

Delta R.T. -0.06 min

Lab File: BE091849.D

Acq: 23 May 2016 16:16

Instrument :

BNA_E

ClientSampleId :

SP-001-160517

Tgt Ion: 276 Resp: 124818

Ion Ratio Lower Upper

276 100

277 24.0 18.6 28.0

138 21.4 20.4 30.6

