

Data Path : Z:\HPCHEM1\BNA E\DATA\BE060716\
 Data File : BE091894.D
 Acq On : 8 Jun 2016 2:36
 Operator : UM/SJ
 Sample : H3359-01MSD
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Jun 08 07:19:17 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE060716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 07 17:14:38 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.77	152	35362	5.00	ng	0.00
8) Naphthalene-d8	10.55	136	163816	5.00	ng	0.00
15) Acenaphthene-d10	14.38	164	101055	5.00	ng	0.00
24) Phenanthrene-d10	17.13	188	253608	5.00	ng	0.00
31) Chrysene-d12	21.27	240	231361	5.00	ng	-0.03
40) Perylene-d12	23.71	264	333296	5.00	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.37	112	42060	5.58	ng	0.00
5) Phenol-d6	6.94	99	61913	6.63	ng	-0.02
9) Nitrobenzene-d5	8.91	82	37510	3.05	ng	-0.02
16) 2,4,6-Tribromophenol	15.87	330	20637	7.17	ng	-0.02
17) 2-Fluorobiphenyl	13.01	172	87010	2.84	ng	0.00
34) Terphenyl-d14	19.74	244	145996	-5.00	ng	0.00

Target Compounds						Qvalue
2) 1,4-Dioxane	3.31	88	9216	1.94	ng	89
3) n-Nitrosodimethylamine	3.61	42	14773	2.50	ng	99
6) bis(2-Chloroethyl)ether	7.20	93	26625	2.63	ng	97
7) n-Nitroso-di-n-propylamine	8.54	70	21443	2.68	ng	# 92
10) Nitrobenzene	8.96	77	30282	2.71	ng	# 66
11) bis(2-Chloroethoxy)methane	9.95	93	45368	2.73	ng	# 38
12) Naphthalene	10.59	128	91706	2.59	ng	97
13) Hexachlorobutadiene	10.88	225	13323	2.53	ng	100
14) 2-Methylnaphthalene	12.20	142	64665	2.84	ng	99
18) Acenaphthylene	14.10	152	114769	2.51	ng	# 91
19) 2,6-Dinitrotoluene	13.96	165	18642	2.77	ng	94
20) Acenaphthene	14.44	154	73261	2.62	ng	96
21) 2,4-Dinitrotoluene	14.76	165	19835	2.61	ng	# 1
22) Fluorene	15.42	166	91035	2.66	ng	99
23) 4-Chlorophenyl-phenylether	15.42	204	42984	2.56	ng	96
25) 4-Bromophenyl-phenylether	16.31	248	25677	2.82	ng	97
26) Hexachlorobenzene	16.44	284	26284	2.82	ng	99
27) Pentachlorophenol	16.76	266	26389	5.81	ng	# 81
28) Phenanthrene	17.16	178	162702	2.77	ng	99
29) Anthracene	17.25	178	156453	2.99	ng	100
30) Fluoranthene	19.17	202	206859	3.26	ng	98
32) Benzidine	19.72	184	2596	0.24	ng	# 90
33) Pyrene	19.53	202	220227	3.77	ng	99
35) Benzo(a)anthracene	21.27	228	1240868	4.50	ng	# 77
36) 3,3'-Dichlorobenzidine	21.21	252	34962	1.93	ng	# 96
37) Chrysene	21.27	228	1261576	5.35	ng	# 67
38) Bis(2-ethylhexyl)phthalate	21.18	149	103704	2.50	ng	# 100
39) Indeno(1,2,3-cd)pyrene	26.27	276	239739	4.48	ng	# 75
41) Benzo(b)fluoranthene	22.97	252	226858	2.79	ng	97
42) Benzo(k)fluoranthene	23.02	252	231344	2.74	ng	95
43) Benzo(a)pyrene	23.59	252	215765	2.83	ng	# 95
44) Dibenzo(a,h)anthracene	26.29	278	202397	2.84	ng	# 94
45) Benzo(a,h,i)perylene	27.05	276	206856	2.77	ng	# 94

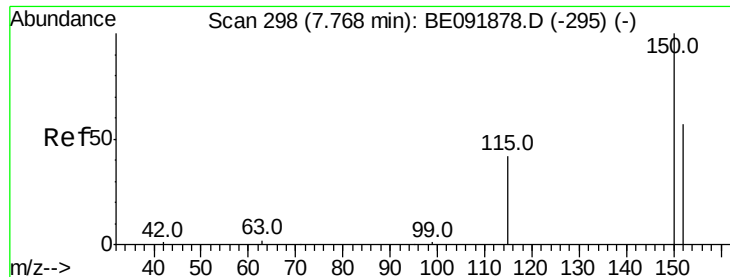
Data Path : Z:\HPCHEM1\BNA E\DATA\BE060716\
Data File : BE091894.D
Acq On : 8 Jun 2016 2:36
Operator : UM/SJ
Sample : H3359-01MSD
Misc :
ALS Vial : 15 Sample Multiplier: 1

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QLast Update : Tue Jun 07 17:14:38 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

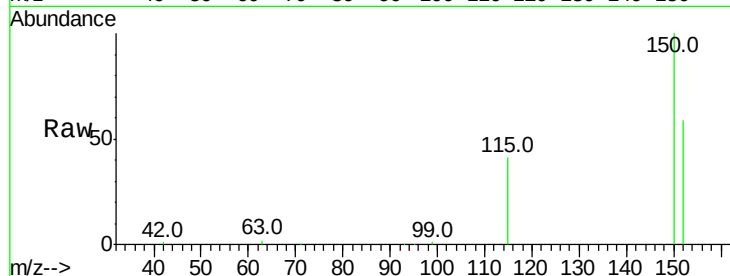


#1

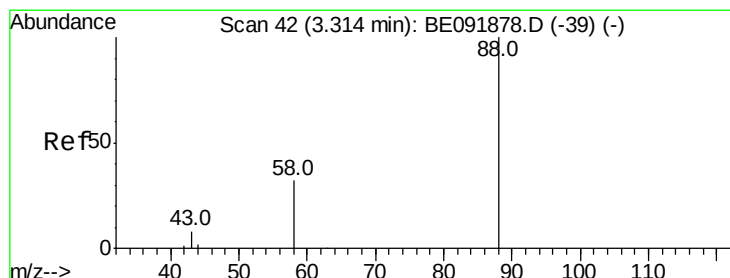
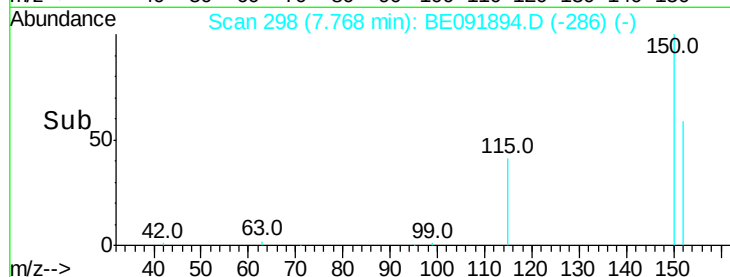
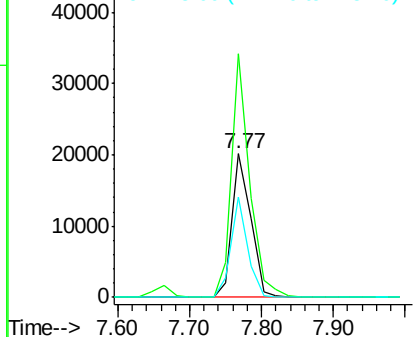
1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 7.77 min Scan# 298
Delta R.T. -0.00 min
Lab File: BE091894.D
Acq: 8 Jun 2016 2:36

Instrument :
BNA_E
ClientSampleId :

Tot Ion:152 Resp: 35362
Ion Ratio Lower Upper
152 100
150 169.8 123.9 185.9
115 70.3 48.3 72.5



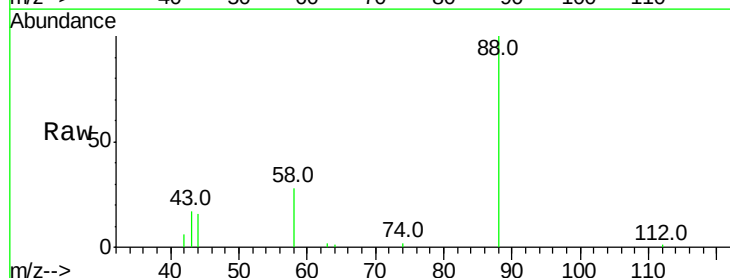
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



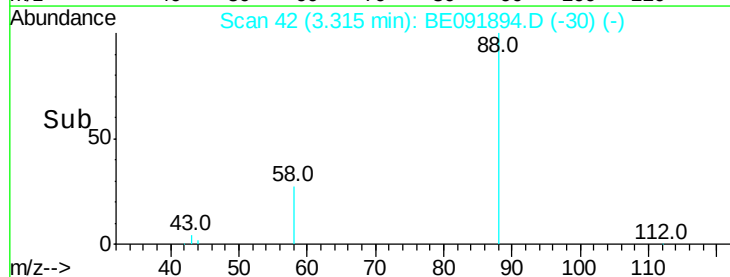
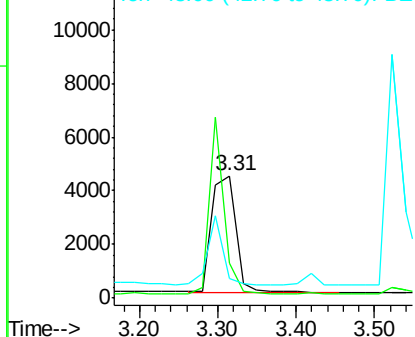
#2

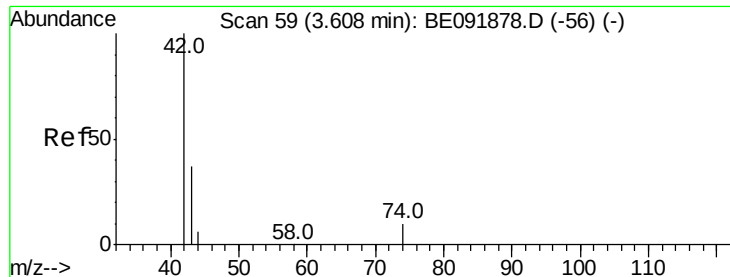
1,4-Dioxane
Concen: 1.94 ng
RT: 3.31 min Scan# 42
Delta R.T. 0.00 min
Lab File: BE091894.D
Acq: 8 Jun 2016 2:36

Tgt Ion: 88 Resp: 9216
Ion Ratio Lower Upper
88 100
58 92.3 63.0 94.4
43 37.8 29.1 43.7



Abundance Ion 88.00 (87.70 to 88.70): BE0
Ion 58.00 (57.70 to 58.70): BE0
Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 2.50 ng

RT: 3.61 min Scan# 59

Delta R.T. 0.00 min

Lab File: BE091894.D

Acq: 8 Jun 2016 2:36

Instrument :

BNA_E

ClientSampleId :

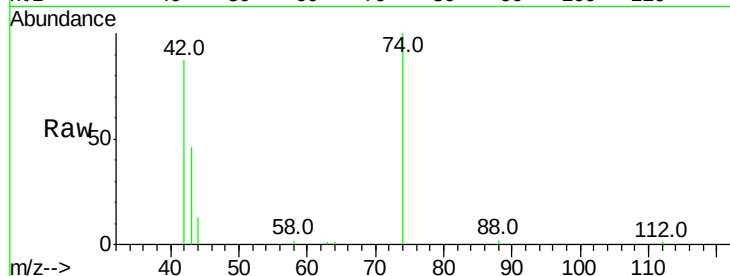
Tot Ion: 42 Resp: 14773

Ion Ratio Lower Upper

42 100

74 116.0 93.4 140.0

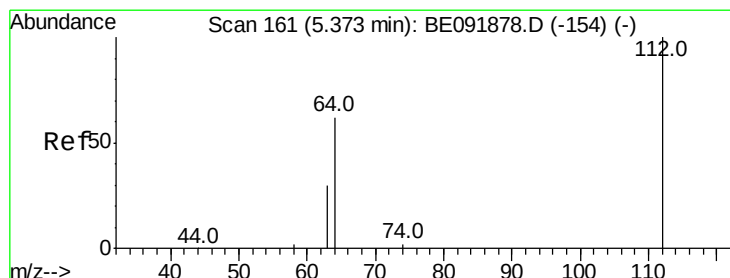
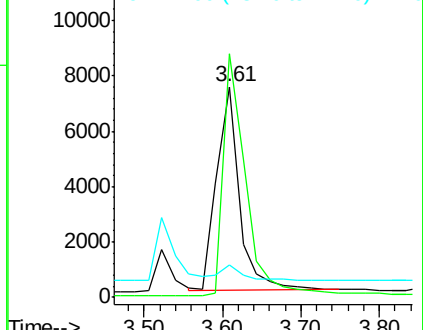
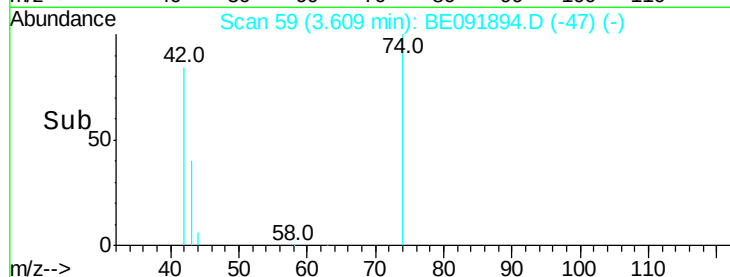
44 7.4 5.0 7.6



Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0



#4

2-Fluorophenol

Concen: 5.58 ng

RT: 5.37 min Scan# 161

Delta R.T. 0.00 min

Lab File: BE091894.D

Acq: 8 Jun 2016 2:36

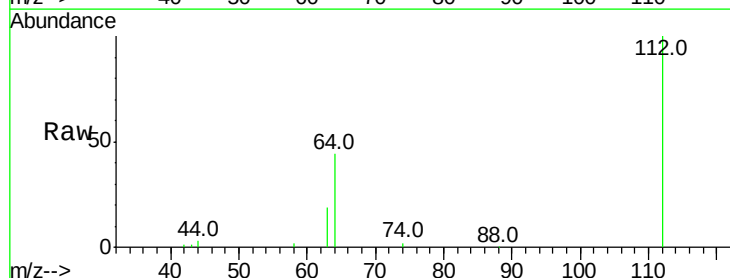
Tgt Ion: 112 Resp: 42060

Ion Ratio Lower Upper

112 100

64 66.6 53.7 80.5

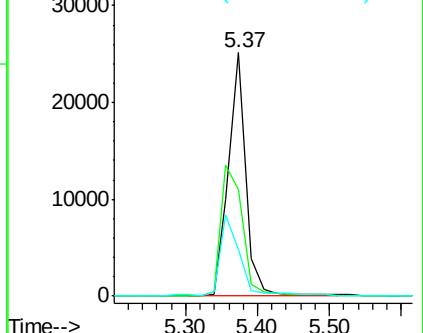
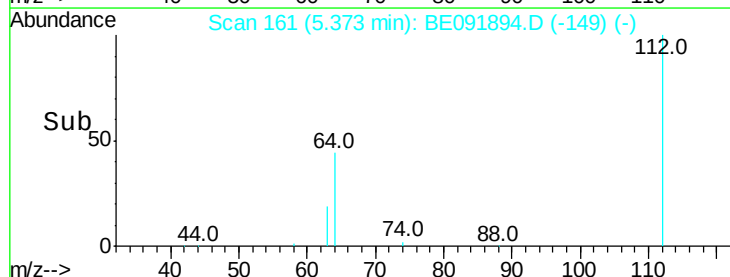
63 37.2 29.5 44.3

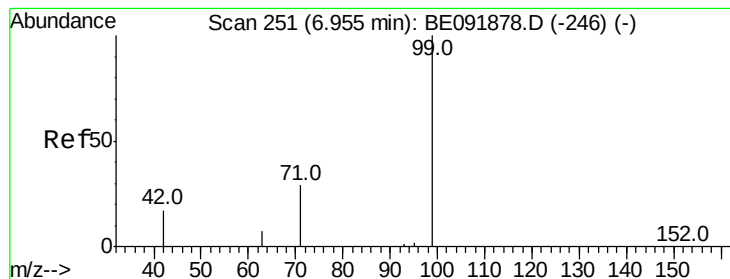


Abundance Ion 112.00 (111.70 to 112.70): BE0

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 6.63 ng

RT: 6.94 min Scan# 250

Delta R.T. -0.02 min

Lab File: BE091894.D

Acq: 8 Jun 2016 2:36

Instrument :

BNA_E

ClientSampled :

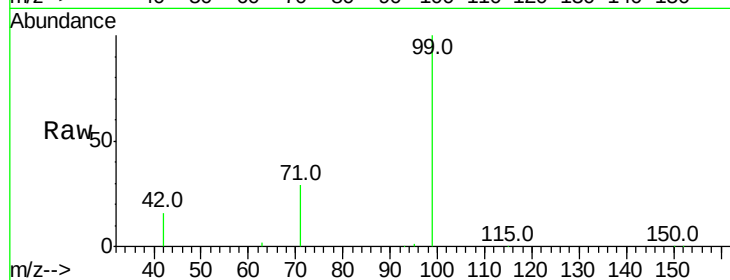
Tot Ion: 99 Resp: 61913

Ion Ratio Lower Upper

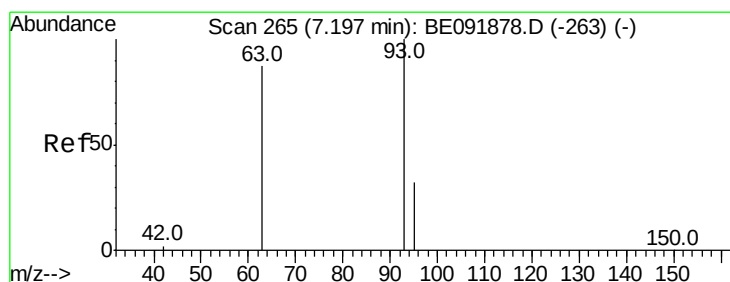
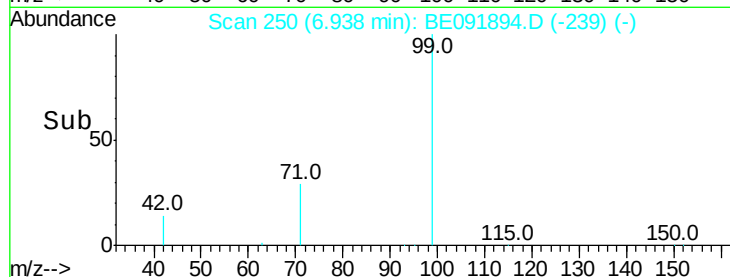
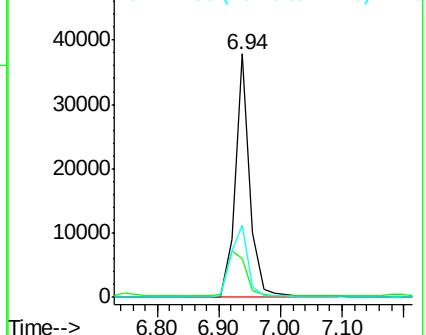
99 100

42 24.5 19.6 29.4

71 35.0 28.1 42.1



Abundance Ion 99.00 (98.70 to 99.70): BE0
Ion 42.00 (41.70 to 42.70): BE0
Ion 71.00 (70.70 to 71.70): BE0



#6

bis(2-Chloroethyl)ether

Concen: 2.63 ng

RT: 7.20 min Scan# 265

Delta R.T. -0.00 min

Lab File: BE091894.D

Acq: 8 Jun 2016 2:36

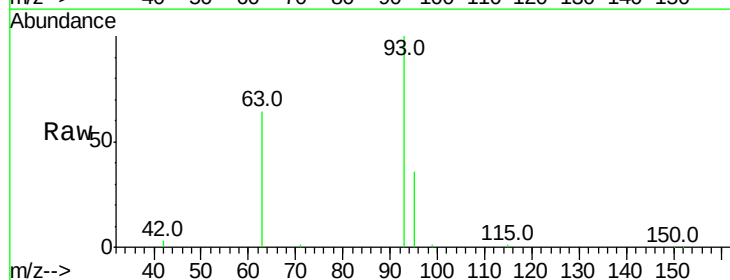
Tgt Ion: 93 Resp: 26625

Ion Ratio Lower Upper

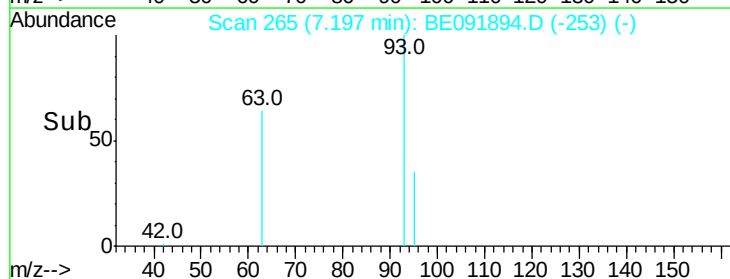
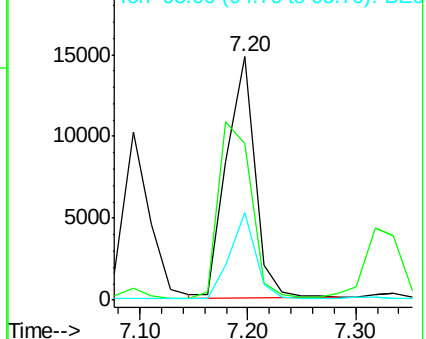
93 100

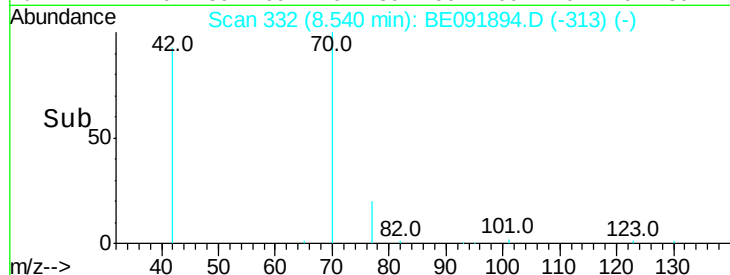
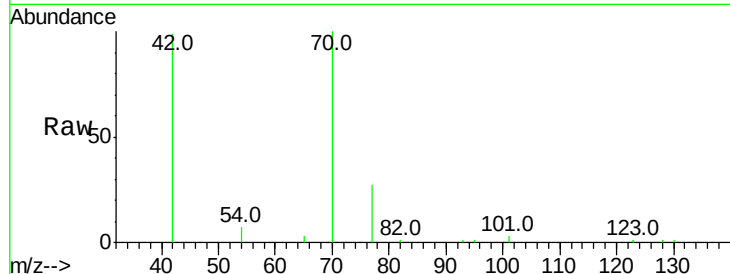
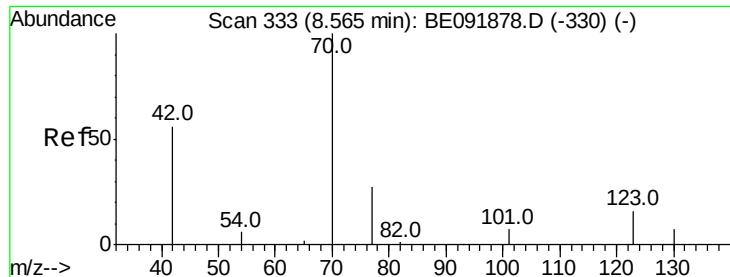
63 85.8 66.2 99.4

95 32.6 25.5 38.3



Abundance Ion 93.00 (92.70 to 93.70): BE0
Ion 63.00 (62.70 to 63.70): BE0
Ion 95.00 (94.70 to 95.70): BE0





#7

n-Nitroso-di-n-propylamine

Concen: 2.68 ng

RT: 8.54 min Scan# 332

Delta R.T. -0.02 min

Lab File: BE091894.D

Acq: 8 Jun 2016 2:36

Instrument :

BNA_E

ClientSampleId :

Tot Ion: 70 Resp: 21443

Ion Ratio Lower Upper

70 100

42 78.5 58.4 87.6

101 0.0 6.4 9.6#

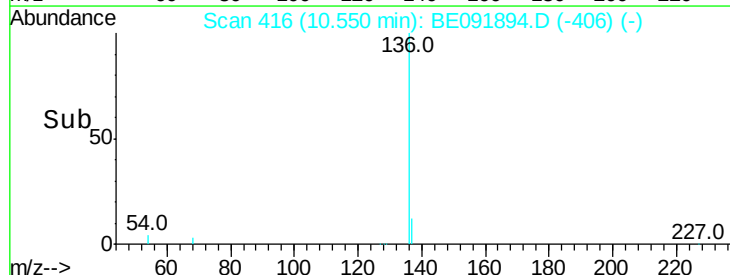
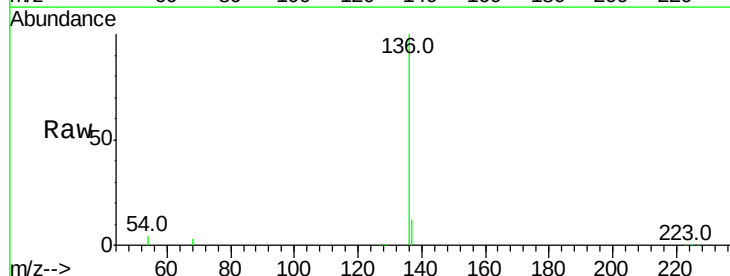
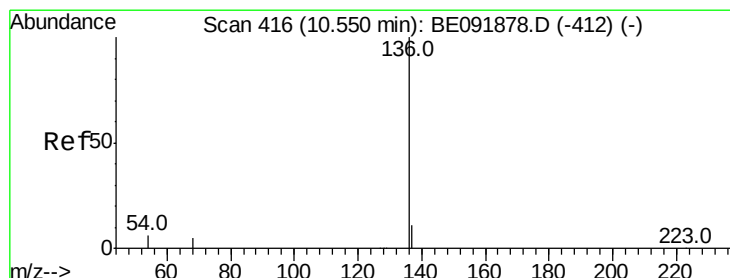
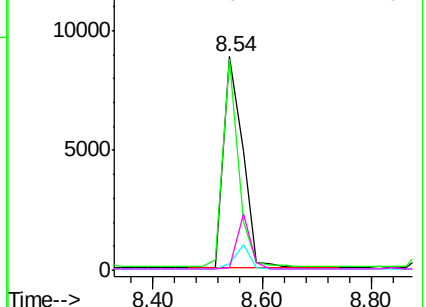
130 0.0 0.0 0.0

Abundance Ion 70.00 (69.70 to 70.70): BE091878.D (-330) (-)

Ion 42.00 (41.70 to 42.70): BE091878.D (-330) (-)

Ion 101.00 (100.70 to 101.70): BE091878.D (-330) (-)

Ion 130.00 (129.70 to 130.70): BE091878.D (-330) (-)



#8

Naphthalene-d8

Concen: 5.00 ng

RT: 10.55 min Scan# 416

Delta R.T. 0.00 min

Lab File: BE091894.D

Acq: 8 Jun 2016 2:36

Tgt Ion: 136 Resp: 163816

Ion Ratio Lower Upper

136 100

137 12.1 8.3 12.5

54 3.8 8.2 12.4#

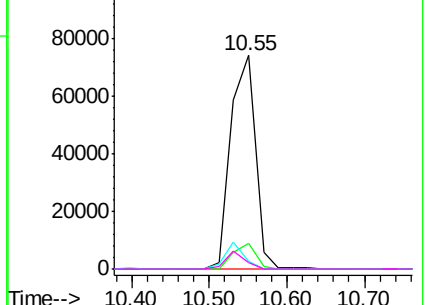
68 3.3 5.9 8.9#

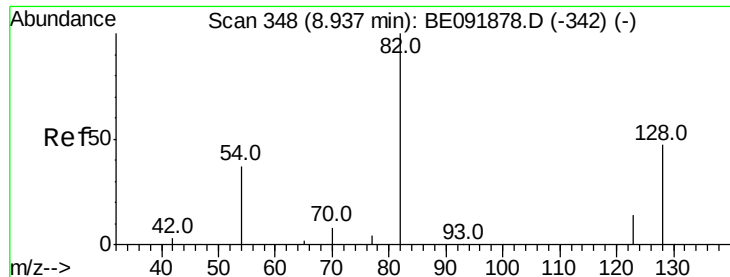
Abundance Ion 136.00 (135.70 to 136.70): BE091878.D (-412) (-)

Ion 137.00 (136.70 to 137.70): BE091878.D (-412) (-)

Ion 54.00 (53.70 to 54.70): BE091878.D (-412) (-)

Ion 68.00 (67.70 to 68.70): BE091878.D (-412) (-)





#9

Nitrobenzene-d5

Concen: 3.05 ng

RT: 8.91 min Scan# 347

Delta R.T. -0.02 min

Lab File: BE091894.D

Acq: 8 Jun 2016 2:36

Instrument :

BNA_E

ClientSampleId :

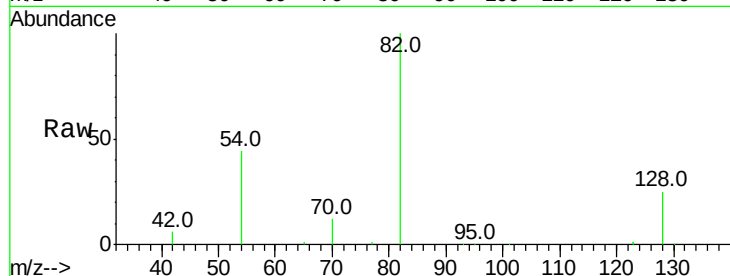
Tot Ion: 82 Resp: 37510

Ion Ratio Lower Upper

82 100

128 24.9 39.5 59.3#

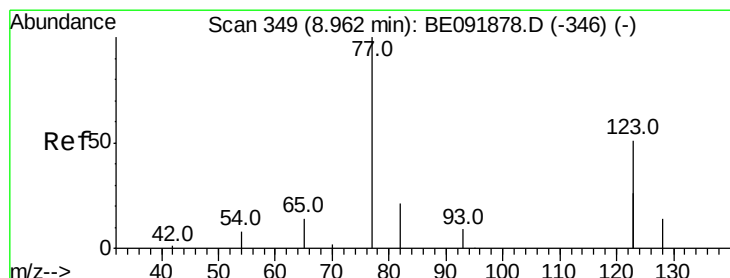
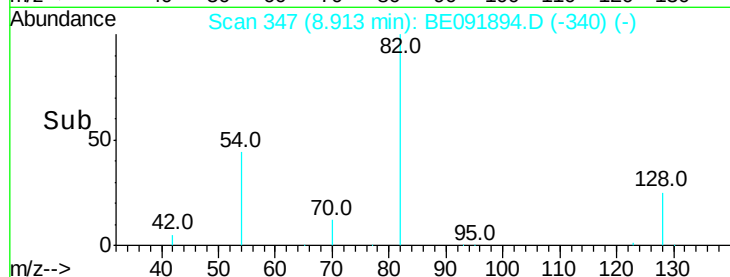
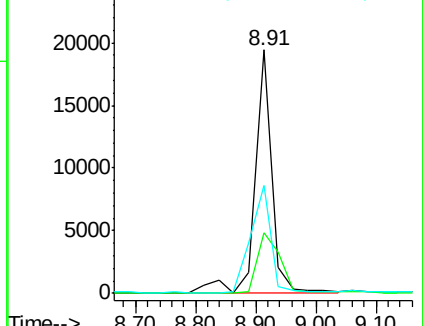
54 44.4 30.3 45.5



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



#10

Nitrobenzene

Concen: 2.71 ng

RT: 8.96 min Scan# 349

Delta R.T. 0.00 min

Lab File: BE091894.D

Acq: 8 Jun 2016 2:36

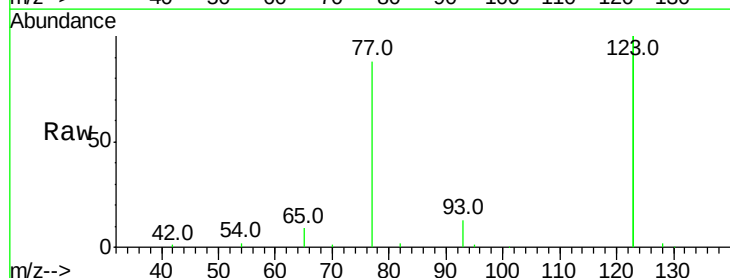
Tgt Ion: 77 Resp: 30282

Ion Ratio Lower Upper

77 100

123 168.8 0.0 0.0#

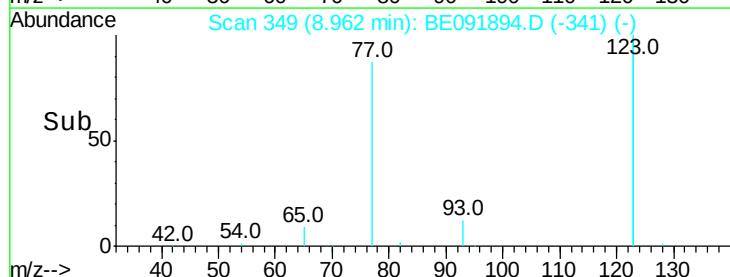
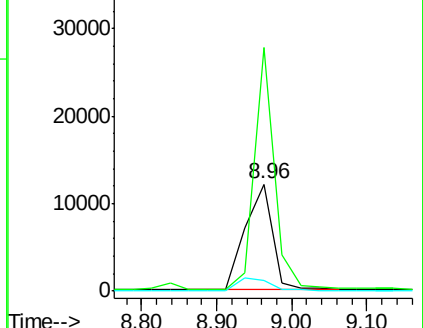
65 0.0 11.1 16.7#

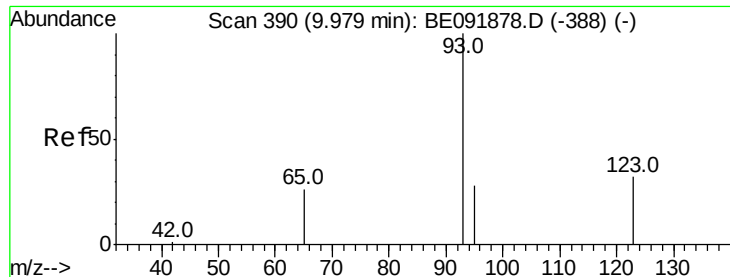


Abundance Ion 77.00 (76.70 to 77.70): BE0

Ion 123.00 (122.70 to 123.70): BE0

Ion 65.00 (64.70 to 65.70): BE0

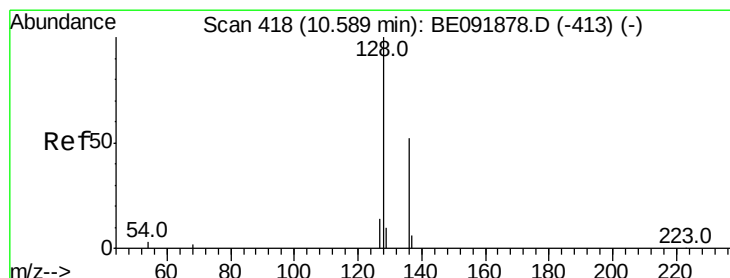
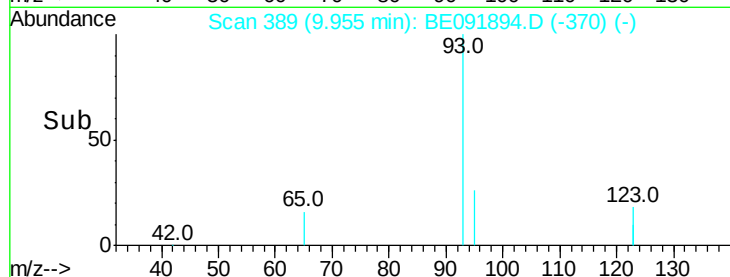
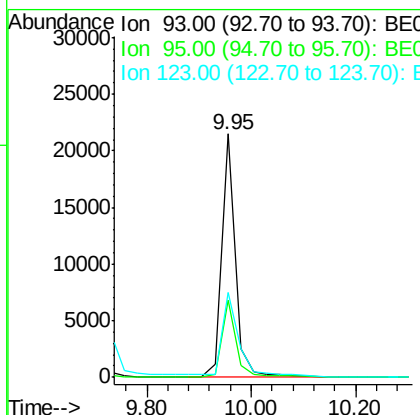
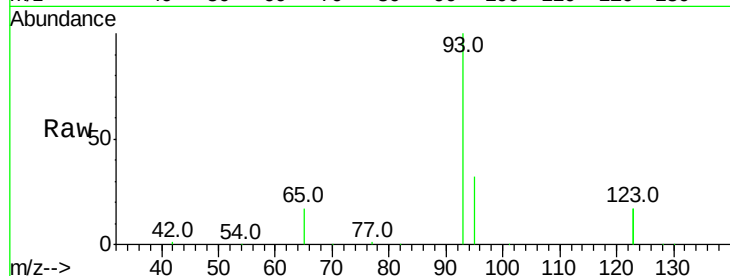




#11
bis(2-Chloroethoxy)methane
Concen: 2.73 ng
RT: 9.95 min Scan# 389
Delta R.T. -0.02 min
Lab File: BE091894.D
Acq: 8 Jun 2016 2:36

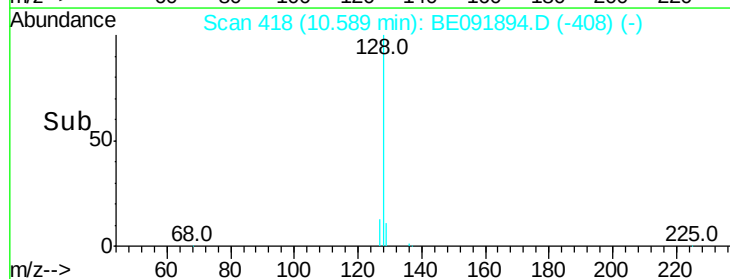
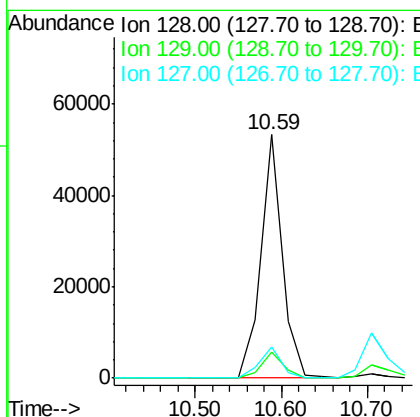
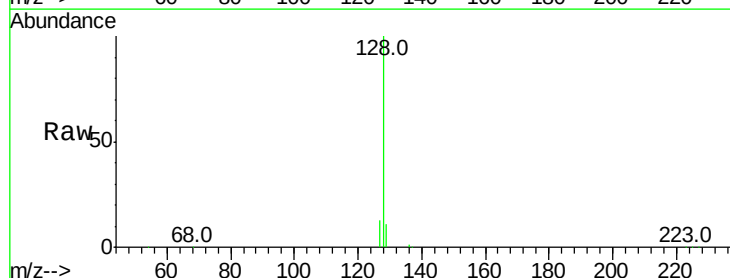
Instrument :
BNA_E
ClientSampled :

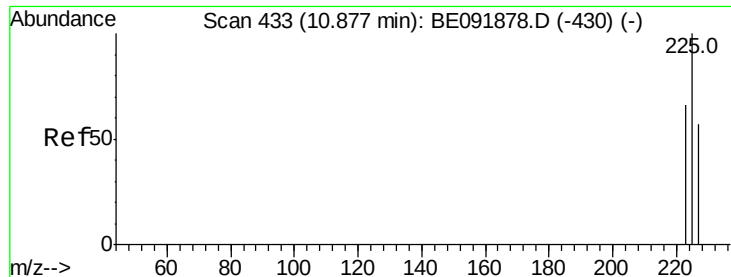
Tot Ion: 93 Resp: 45368
Ion Ratio Lower Upper
93 100
95 33.5 57.6 86.4#
123 44.4 100.2 150.4#



#12
Naphthalene
Concen: 2.59 ng
RT: 10.59 min Scan# 418
Delta R.T. 0.00 min
Lab File: BE091894.D
Acq: 8 Jun 2016 2:36

Tgt Ion: 128 Resp: 91706
Ion Ratio Lower Upper
128 100
129 10.9 10.4 15.6
127 12.8 10.2 15.2

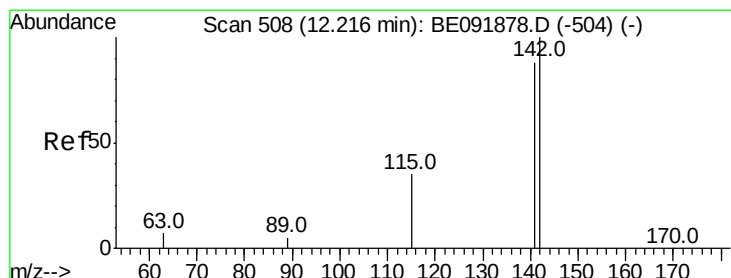
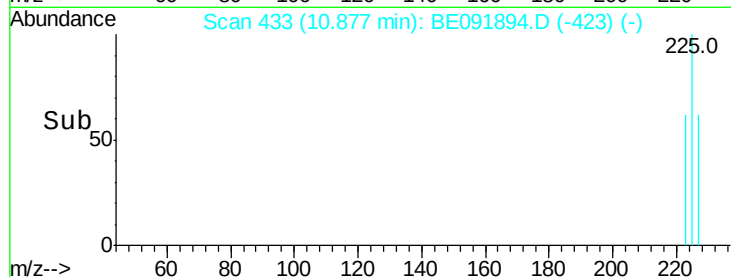
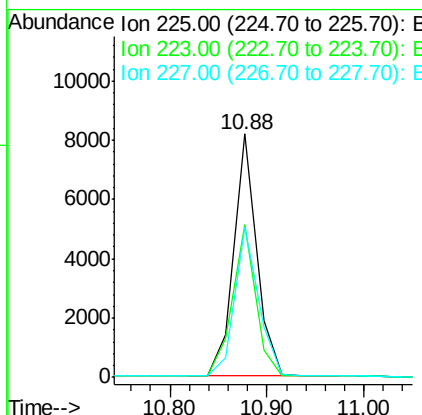
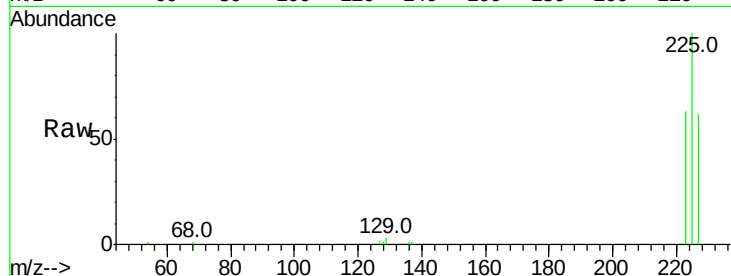




#13
Hexachlorobutadiene
Concen: 2.53 ng
RT: 10.88 min Scan# 433
Delta R.T. 0.00 min
Lab File: BE091894.D
Acq: 8 Jun 2016 2:36

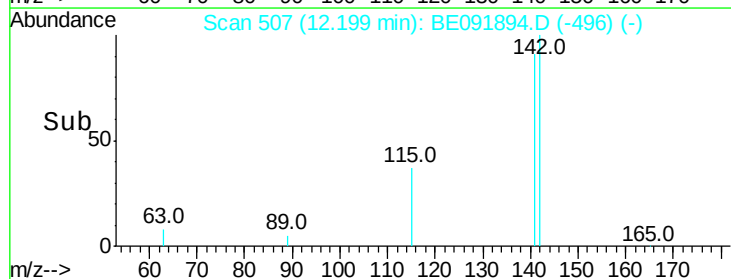
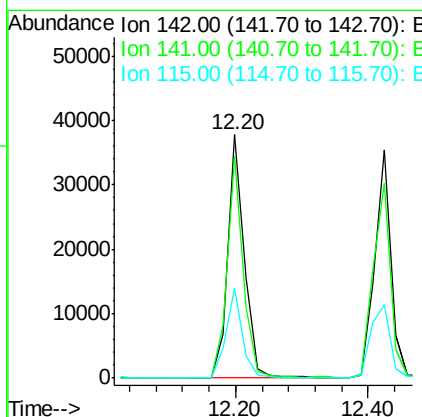
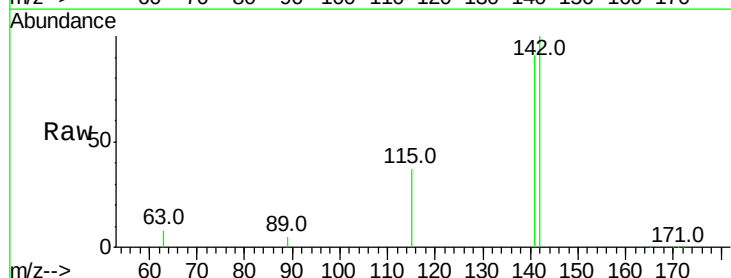
Instrument :
BNA_E
ClientSampleId :

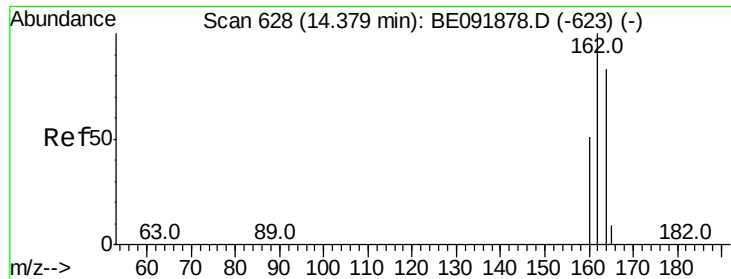
Tot Ion:225 Resp: 13323
Ion Ratio Lower Upper
225 100
223 62.7 49.8 74.8
227 63.5 50.6 75.8



#14
2-Methylnaphthalene
Concen: 2.84 ng
RT: 12.20 min Scan# 507
Delta R.T. -0.02 min
Lab File: BE091894.D
Acq: 8 Jun 2016 2:36

Tgt Ion:142 Resp: 64665
Ion Ratio Lower Upper
142 100
141 91.1 71.9 107.9
115 37.1 29.9 44.9





#15

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.38 min Scan# 628

Delta R.T. -0.00 min

Lab File: BE091894.D

Acq: 8 Jun 2016 2:36

Instrument :

BNA_E

ClientSampleId :

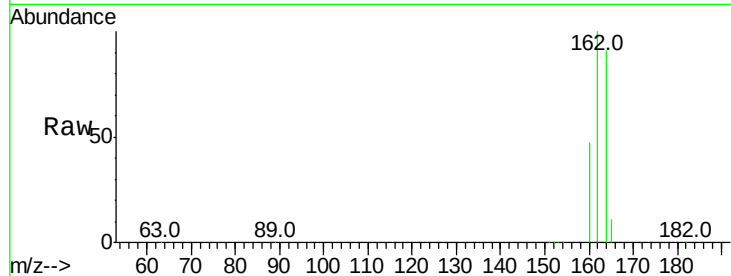
Tot Ion:164 Resp: 101055

Ion Ratio Lower Upper

164 100

162 109.8 71.8 107.8#

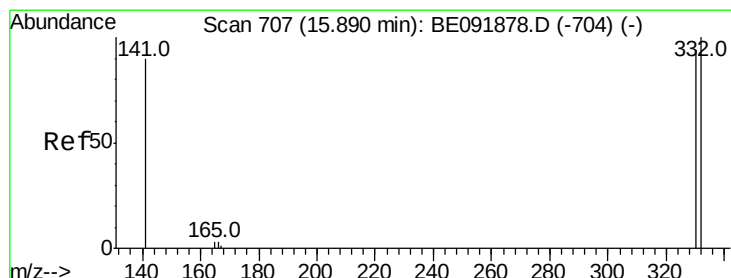
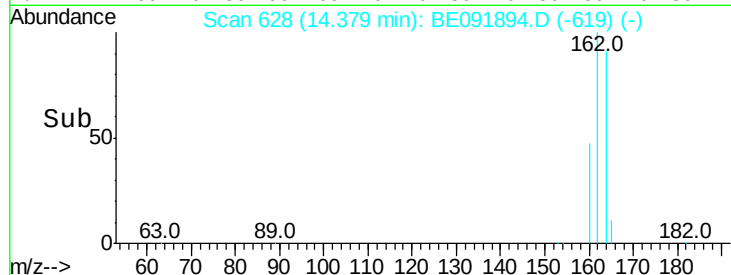
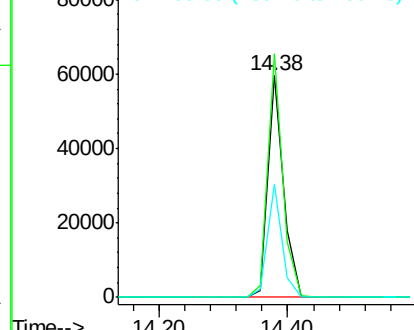
160 51.2 28.0 42.0#



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



#16

2,4,6-Tribromophenol

Concen: 7.17 ng

RT: 15.87 min Scan# 706

Delta R.T. -0.02 min

Lab File: BE091894.D

Acq: 8 Jun 2016 2:36

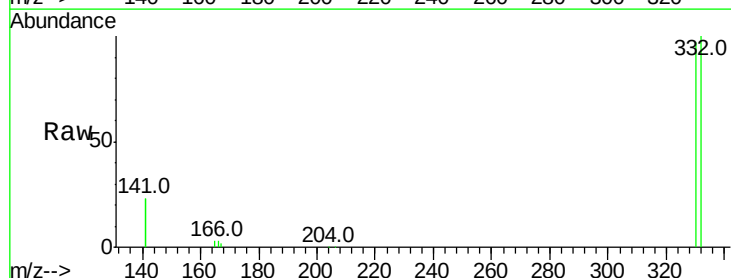
Tgt Ion:330 Resp: 20637

Ion Ratio Lower Upper

330 100

332 98.2 77.0 115.6

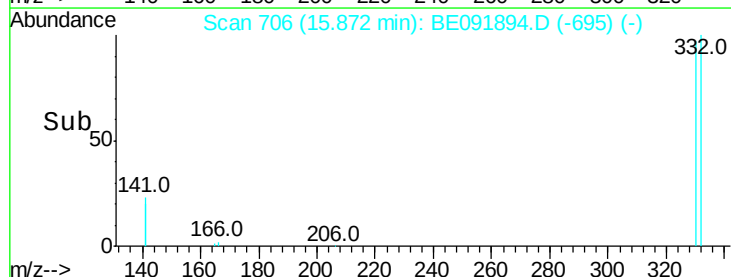
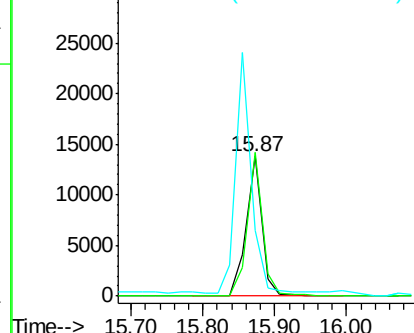
141 169.0 138.4 207.6

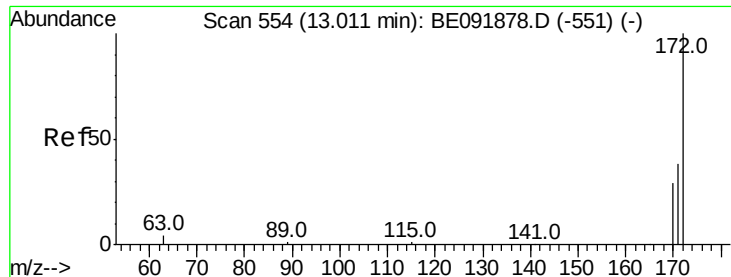


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

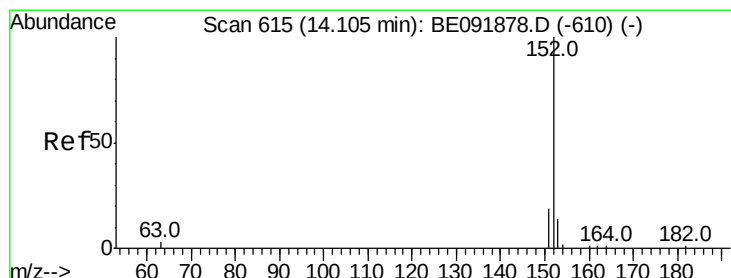
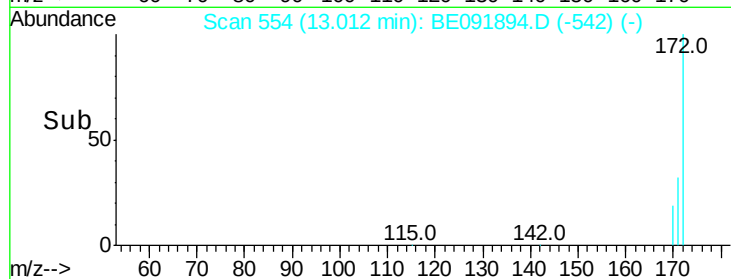
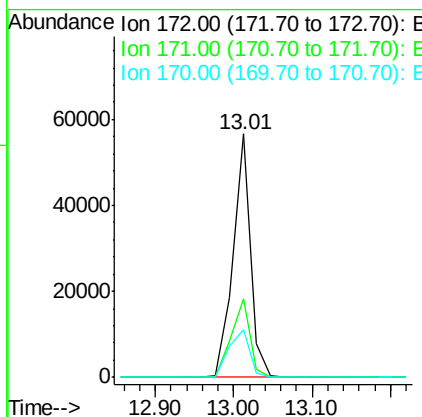
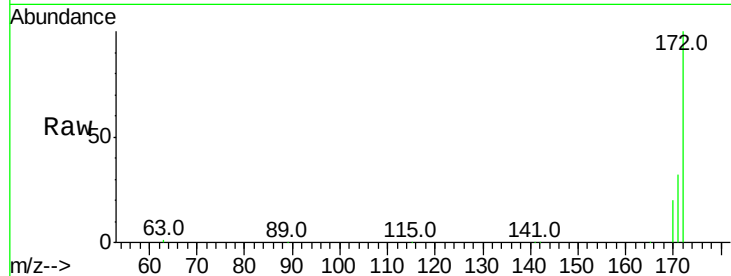




#17
 2-Fluorobiphenyl
 Concen: 2.84 ng
 RT: 13.01 min Scan# 554
 Delta R.T. 0.00 min
 Lab File: BE091894.D
 Acq: 8 Jun 2016 2:36

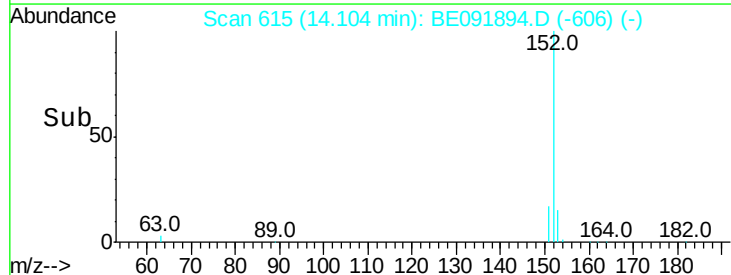
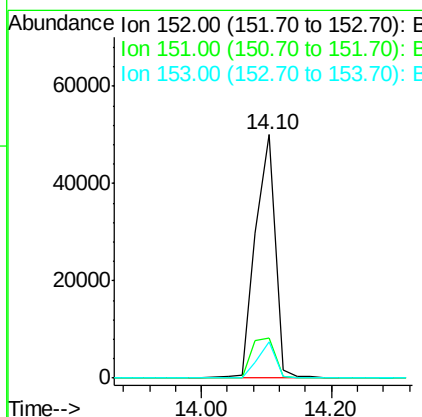
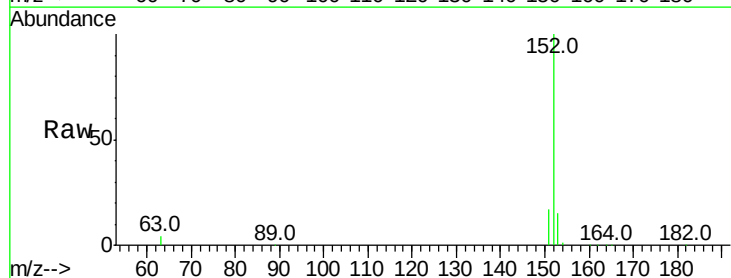
Instrument :
 BNA_E
 ClientSampleId :

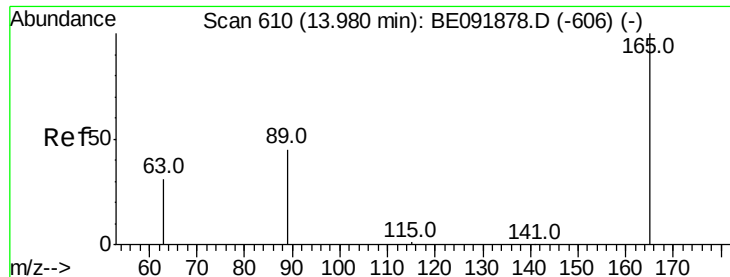
Tot Ion:172 Resp: 87010
 Ion Ratio Lower Upper
 172 100
 171 32.2 24.3 36.5
 170 19.6 14.9 22.3



#18
 Acenaphthylene
 Concen: 2.51 ng
 RT: 14.10 min Scan# 615
 Delta R.T. -0.00 min
 Lab File: BE091894.D
 Acq: 8 Jun 2016 2:36

Tgt Ion:152 Resp: 114769
 Ion Ratio Lower Upper
 152 100
 151 20.2 19.4 29.2
 153 13.6 14.4 21.6#

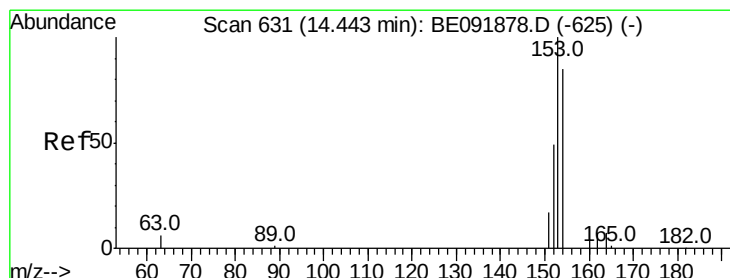
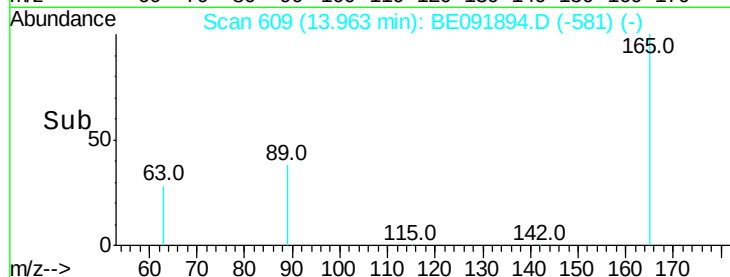
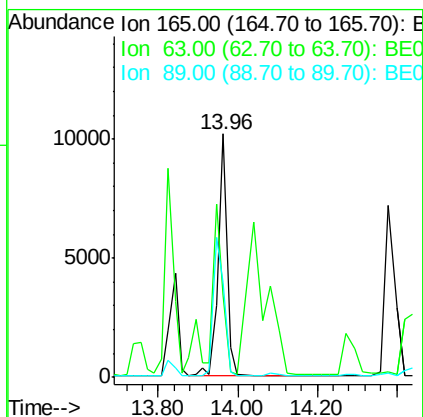
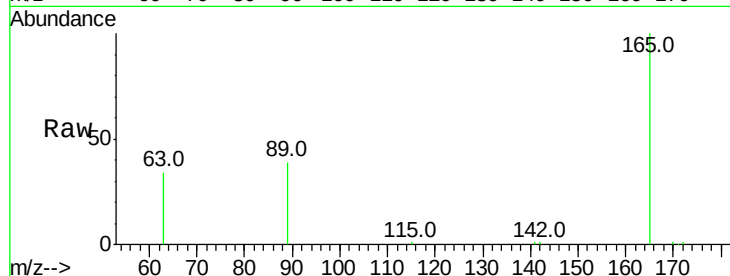




#19
2,6-Dinitrotoluene
Concen: 2.77 ng
RT: 13.96 min Scan# 609
Delta R.T. -0.02 min
Lab File: BE091894.D
Acq: 8 Jun 2016 2:36

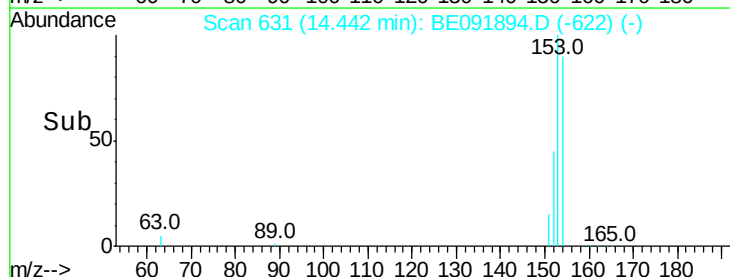
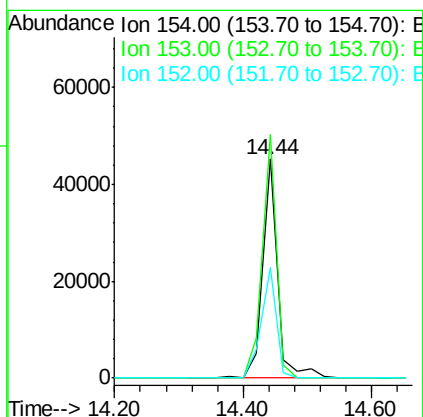
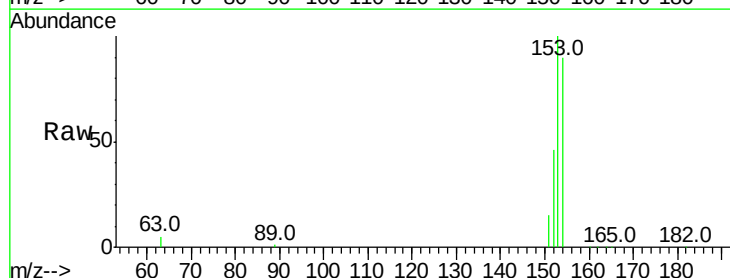
Instrument :
BNA_E
ClientSampleId :

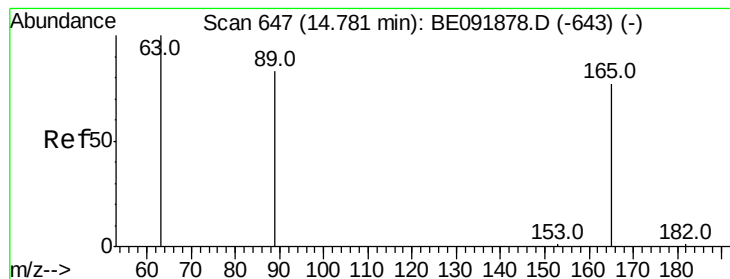
Tot Ion:165 Resp: 18642
Ion Ratio Lower Upper
165 100
63 77.7 65.9 98.9
89 68.0 59.1 88.7



#20
Acenaphthene
Concen: 2.62 ng
RT: 14.44 min Scan# 631
Delta R.T. -0.00 min
Lab File: BE091894.D
Acq: 8 Jun 2016 2:36

Tgt Ion:154 Resp: 73261
Ion Ratio Lower Upper
154 100
153 106.5 88.1 132.1
152 51.3 44.2 66.2





#21

2,4-Dinitrotoluene

Concen: 2.61 ng

RT: 14.76 min Scan# 646

Delta R.T. -0.02 min

Lab File: BE091894.D

Acq: 8 Jun 2016 2:36

Instrument :

BNA_E

ClientSampleId :

Tot Ion:165 Resp: 19835

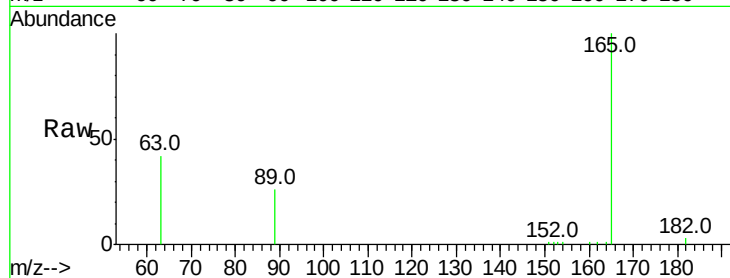
Ion Ratio Lower Upper

165 100

63 0.0 0.0 0.0

89 0.0 99.8 149.8#

182 2.3 0.0 0.0#

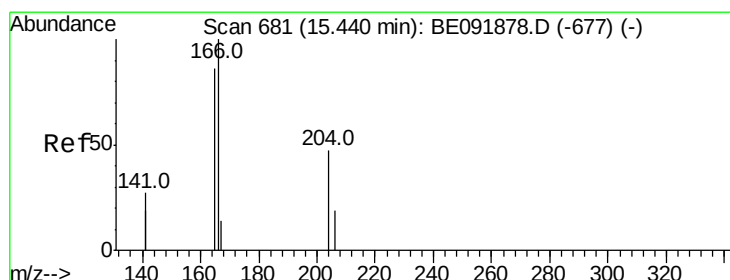
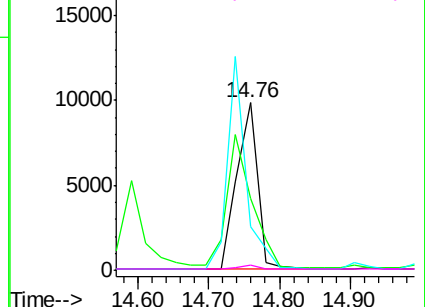
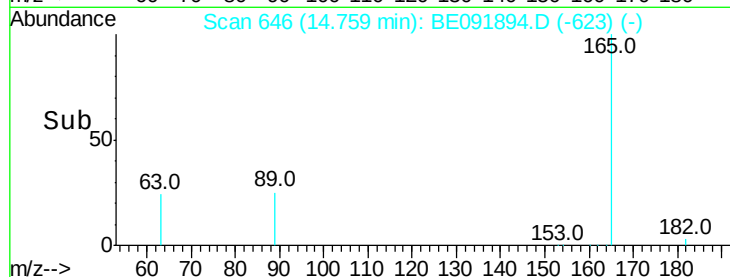


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BE0

Ion 89.00 (88.70 to 89.70): BE0

Ion 182.00 (181.70 to 182.70): E



#22

Fluorene

Concen: 2.66 ng

RT: 15.42 min Scan# 680

Delta R.T. -0.02 min

Lab File: BE091894.D

Acq: 8 Jun 2016 2:36

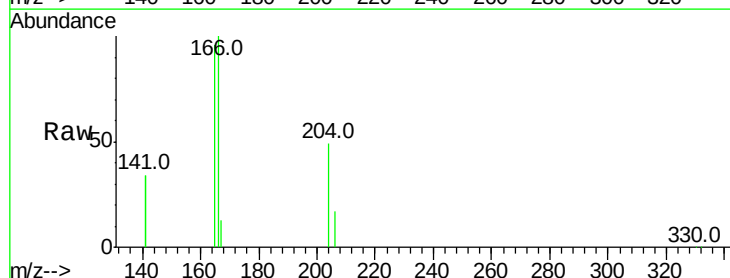
Tgt Ion:166 Resp: 91035

Ion Ratio Lower Upper

166 100

165 97.0 78.6 117.8

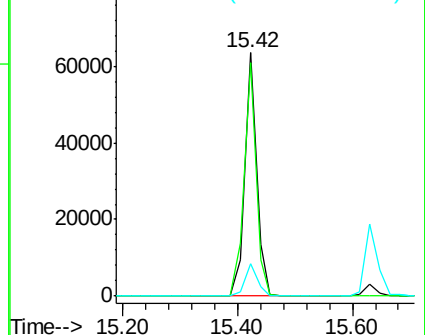
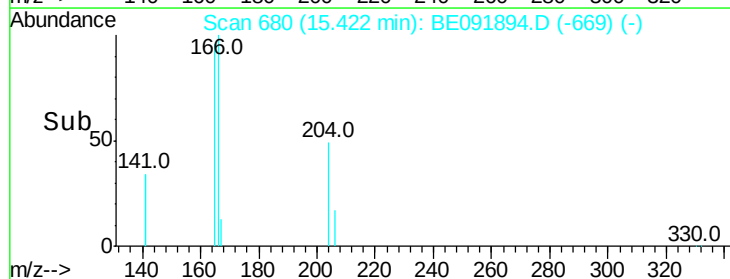
167 13.6 10.8 16.2

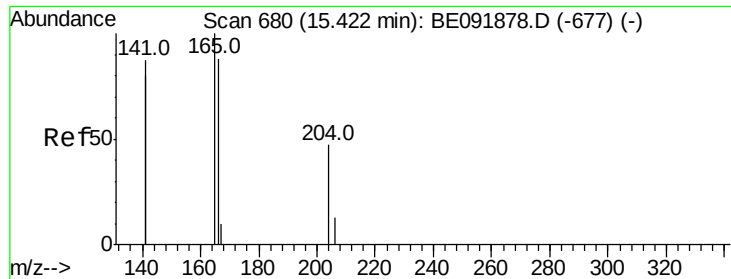


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

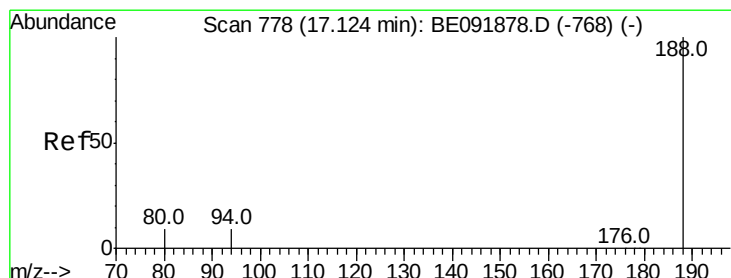
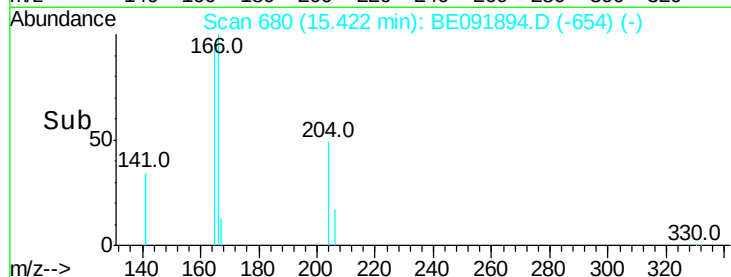
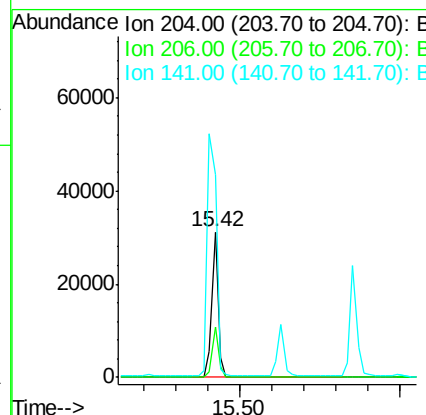
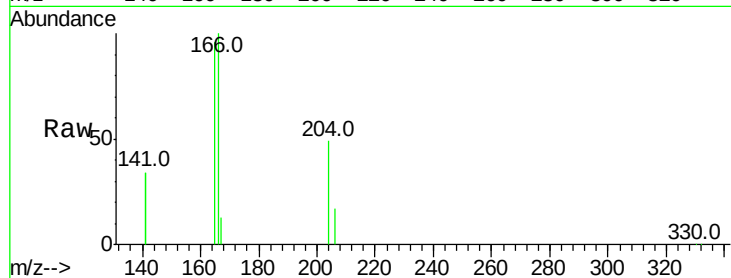




#23
4-Chlorophenyl-phenylether
Concen: 2.56 ng
RT: 15.42 min Scan# 680
Delta R.T. 0.00 min
Lab File: BE091894.D
Acq: 8 Jun 2016 2:36

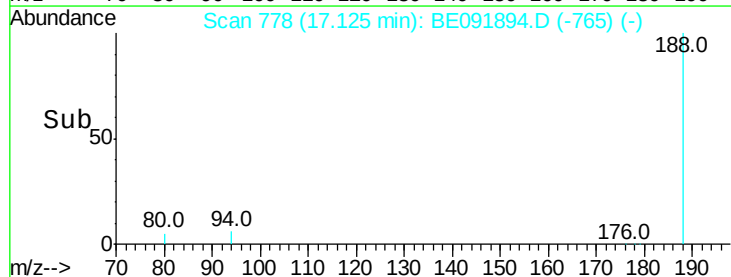
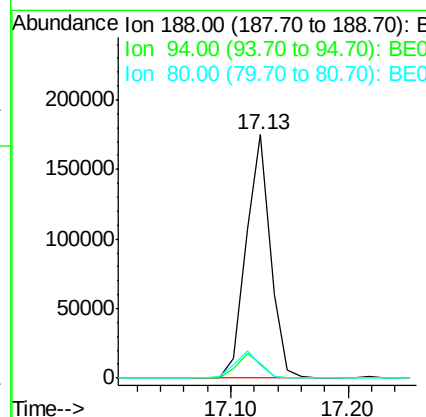
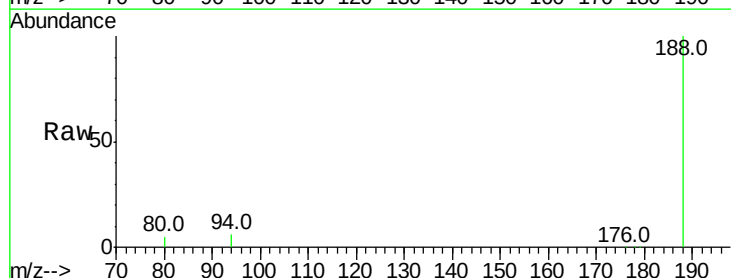
Instrument :
BNA_E
ClientSampleId :

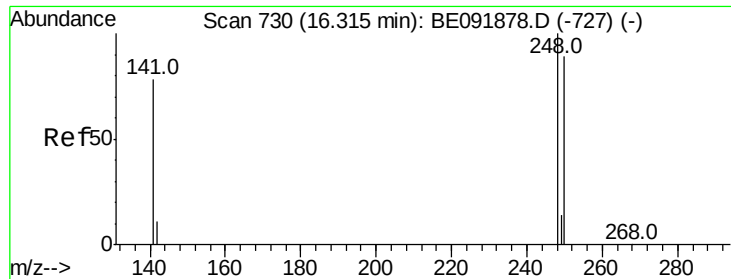
Tot Ion:204 Resp: 42984
Ion Ratio Lower Upper
204 100
206 34.5 27.8 41.6
141 239.2 197.6 296.4



#24
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.13 min Scan# 778
Delta R.T. 0.00 min
Lab File: BE091894.D
Acq: 8 Jun 2016 2:36

Tgt Ion:188 Resp: 253608
Ion Ratio Lower Upper
188 100
94 6.0 4.1 6.1
80 5.2 3.4 5.2#





#25

4-Bromophenyl-phenylether

Concen: 2.82 ng

RT: 16.31 min Scan# 730

Delta R.T. -0.00 min

Lab File: BE091894.D

Acq: 8 Jun 2016 2:36

Instrument :

BNA_E

ClientSampleId :

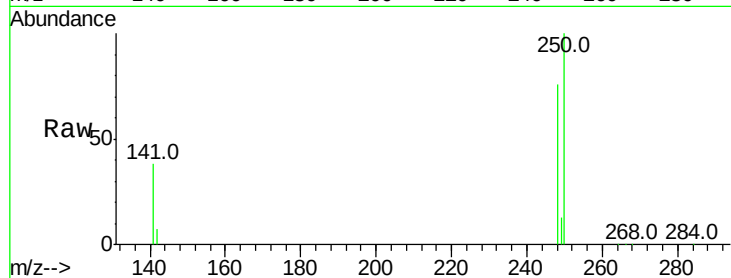
Tot Ion:248 Resp: 25677

Ion Ratio Lower Upper

248 100

250 99.7 75.7 113.5

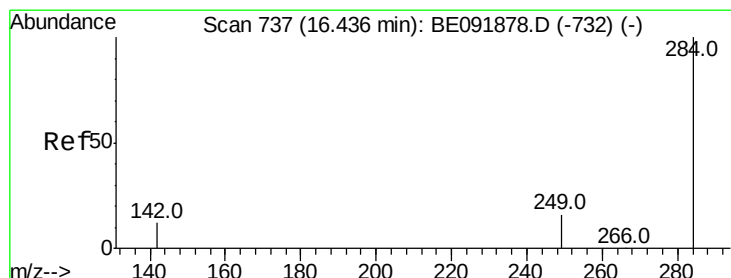
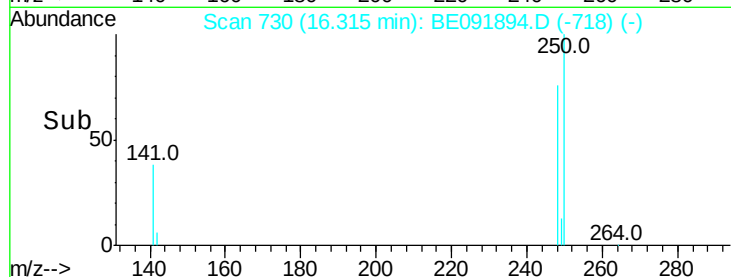
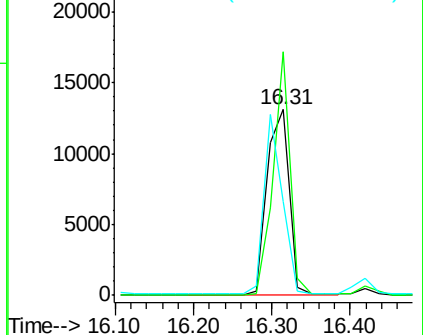
141 81.3 64.6 97.0



Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E



#26

Hexachlorobenzene

Concen: 2.82 ng

RT: 16.44 min Scan# 737

Delta R.T. -0.00 min

Lab File: BE091894.D

Acq: 8 Jun 2016 2:36

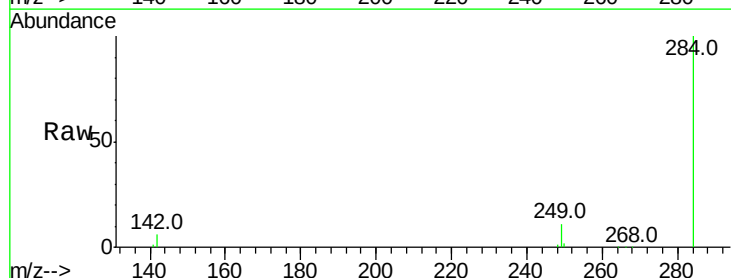
Tgt Ion:284 Resp: 26284

Ion Ratio Lower Upper

284 100

142 39.8 31.4 47.2

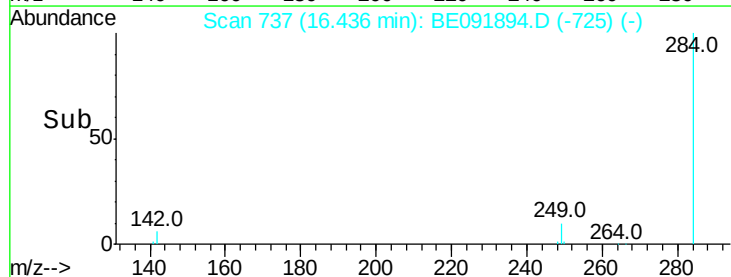
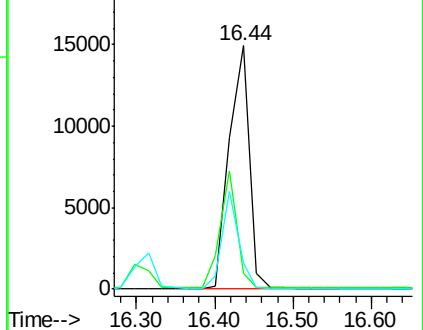
249 32.5 25.3 37.9

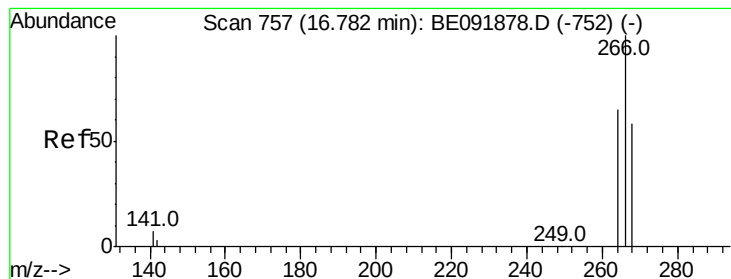


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E





#27

Pentachlorophenol

Concen: 5.81 ng

RT: 16.76 min Scan# 756

Delta R.T. -0.02 min

Lab File: BE091894.D

Acq: 8 Jun 2016 2:36

Instrument :

BNA_E

ClientSampleId :

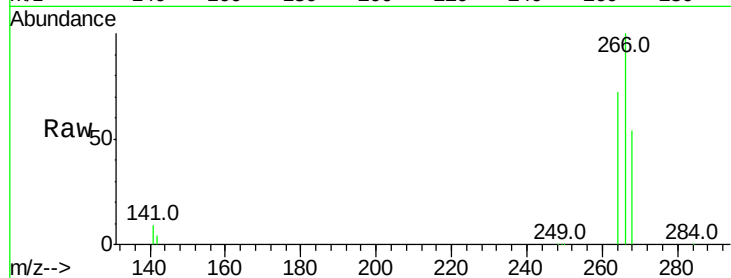
Tot Ion:266 Resp: 26389

Ion Ratio Lower Upper

266 100

268 53.9 60.5 90.7#

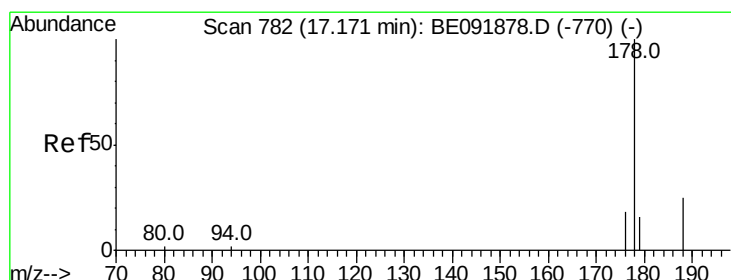
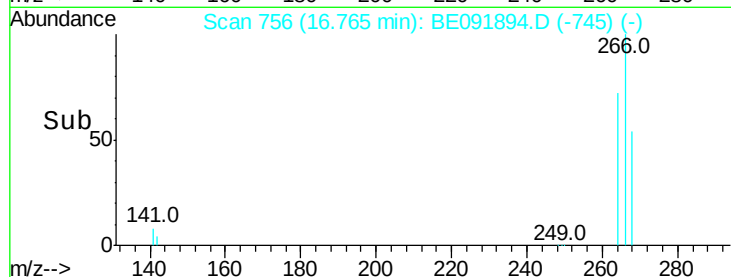
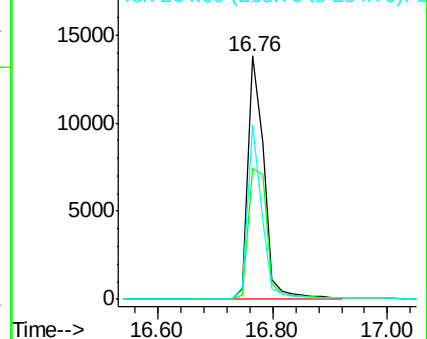
264 71.9 51.0 76.4



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



#28

Phenanthrene

Concen: 2.77 ng

RT: 17.16 min Scan# 781

Delta R.T. -0.01 min

Lab File: BE091894.D

Acq: 8 Jun 2016 2:36

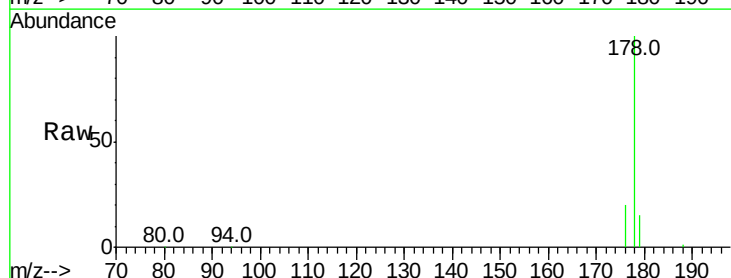
Tgt Ion:178 Resp: 162702

Ion Ratio Lower Upper

178 100

176 19.5 15.4 23.2

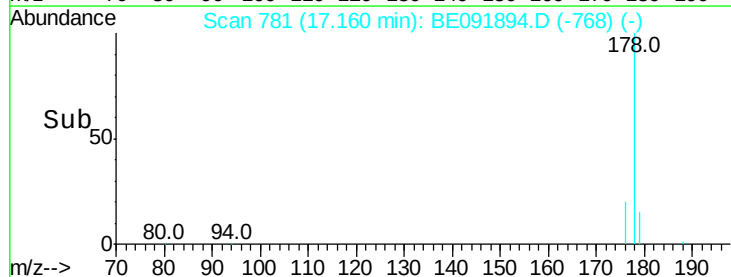
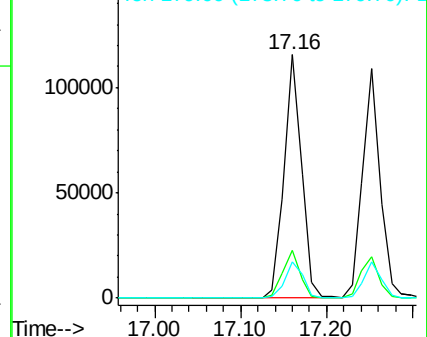
179 15.6 12.9 19.3

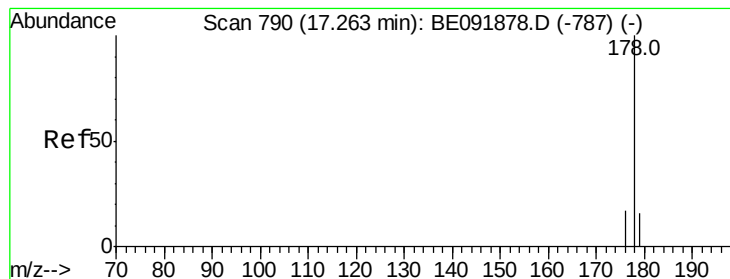


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#29

Anthracene

Concen: 2.99 ng

RT: 17.25 min Scan# 789

Delta R.T. -0.01 min

Lab File: BE091894.D

Acq: 8 Jun 2016 2:36

Instrument :

BNA_E

ClientSampleId :

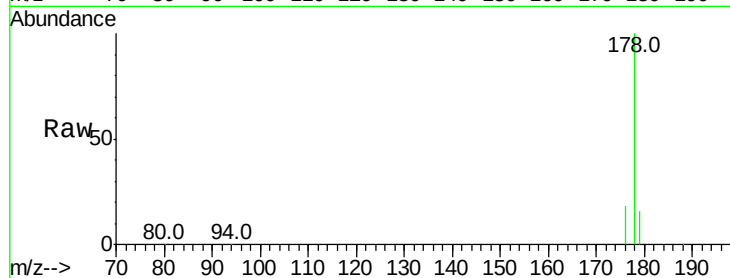
Tot Ion:178 Resp: 156453

Ion Ratio Lower Upper

178 100

176 18.8 15.1 22.7

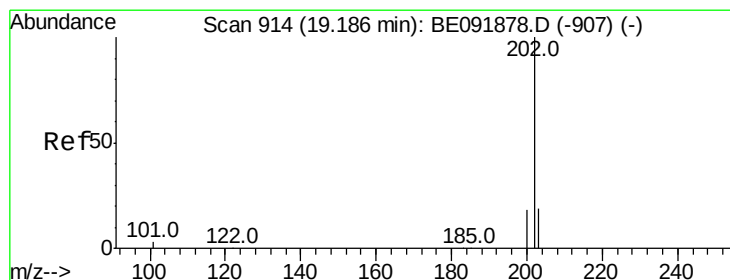
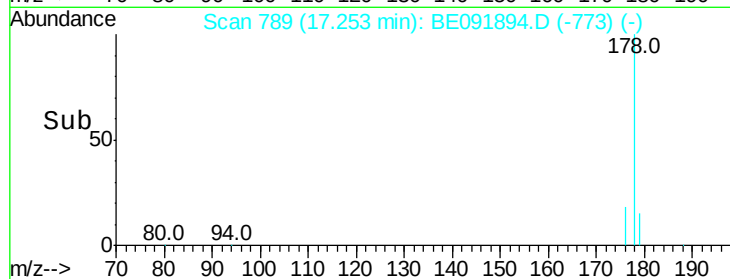
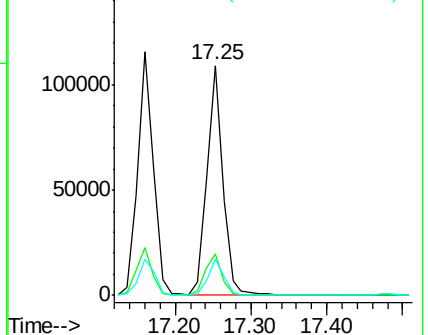
179 15.4 12.1 18.1



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#30

Fluoranthene

Concen: 3.26 ng

RT: 19.17 min Scan# 913

Delta R.T. -0.02 min

Lab File: BE091894.D

Acq: 8 Jun 2016 2:36

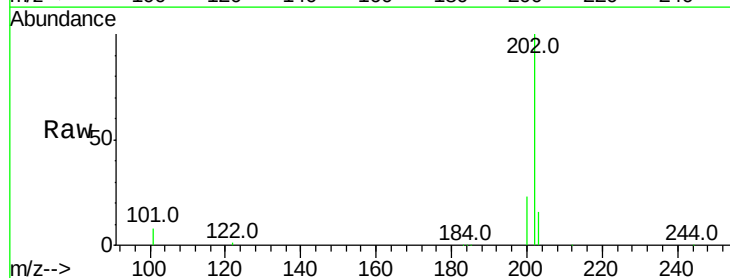
Tgt Ion:202 Resp: 206859

Ion Ratio Lower Upper

202 100

101 10.3 9.4 14.0

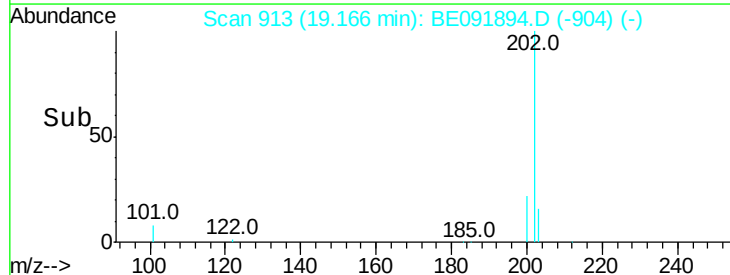
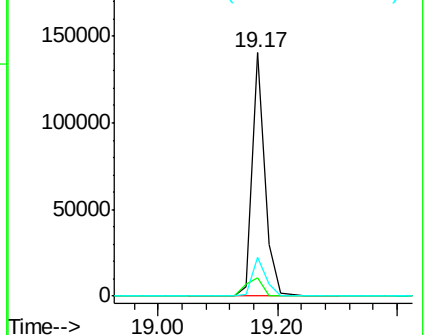
203 17.2 14.3 21.5

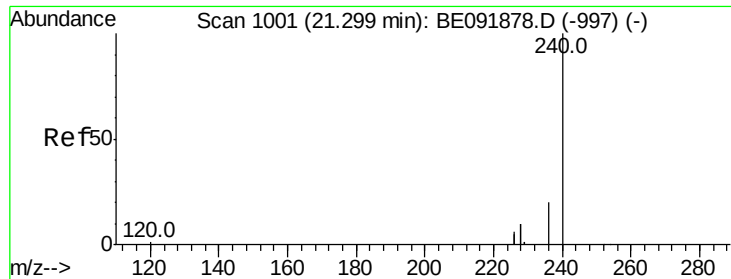


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

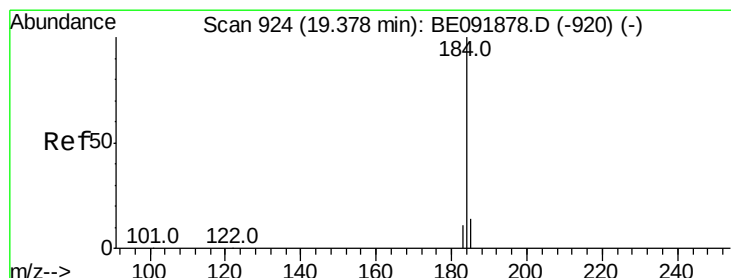
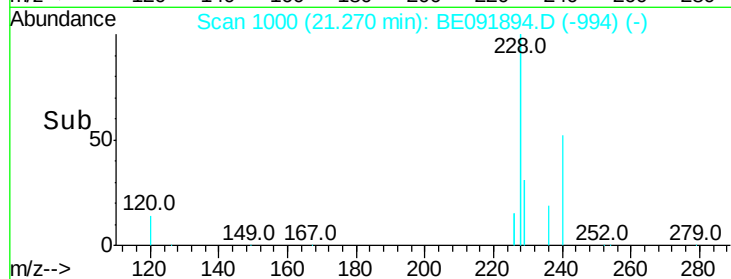
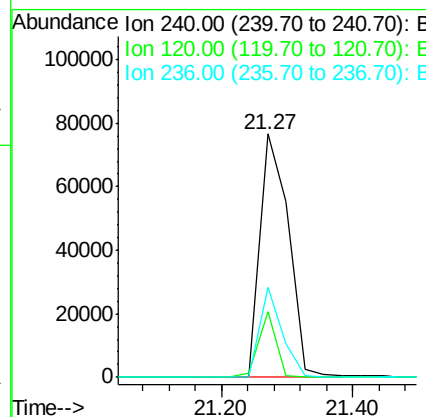
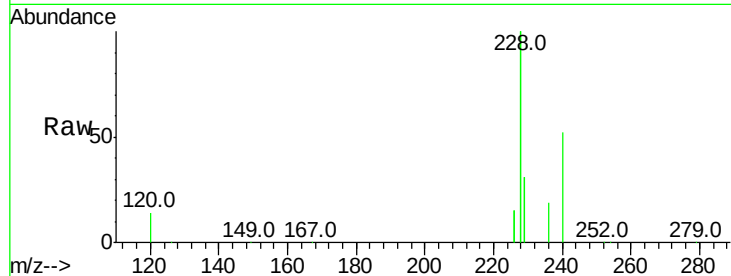




#31
Chrysene-d12
Concen: 5.00 ng
RT: 21.27 min Scan# 1000
Delta R.T. -0.03 min
Lab File: BE091894.D
Acq: 8 Jun 2016 2:36

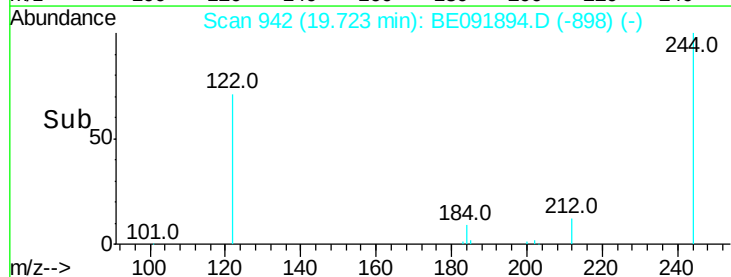
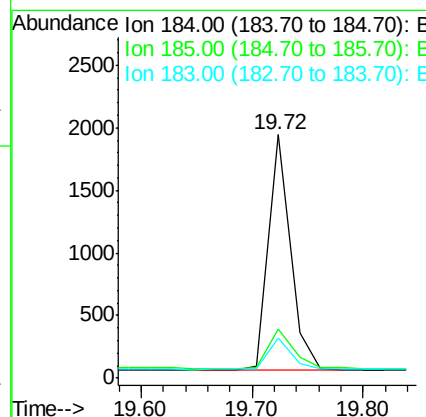
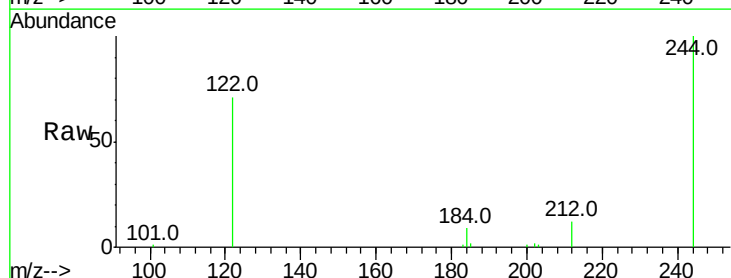
Instrument :
BNA_E
ClientSampleId :

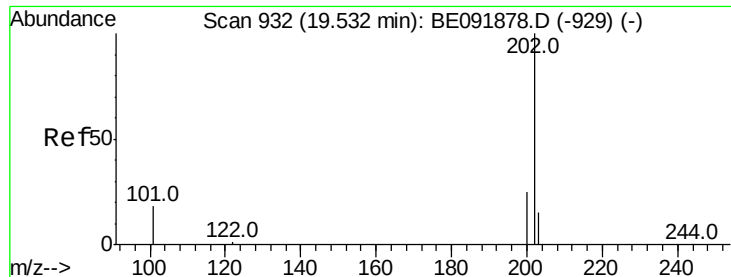
Tot Ion:240 Resp: 231361
Ion Ratio Lower Upper
240 100
120 26.8 1.2 1.8#
236 37.1 19.8 29.8#



#32
Benzidine
Concen: 0.24 ng
RT: 19.72 min Scan# 942
Delta R.T. 0.35 min
Lab File: BE091894.D
Acq: 8 Jun 2016 2:36

Tgt Ion:184 Resp: 2596
Ion Ratio Lower Upper
184 100
185 20.4 11.4 17.2#
183 16.7 11.8 17.6

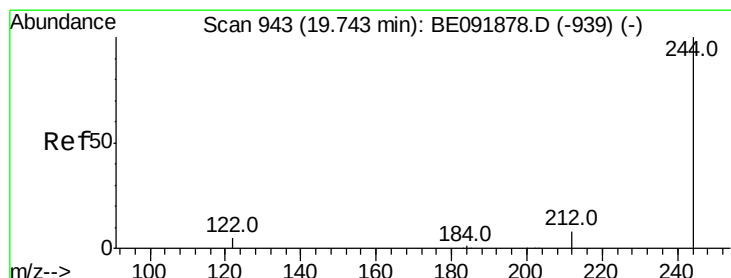
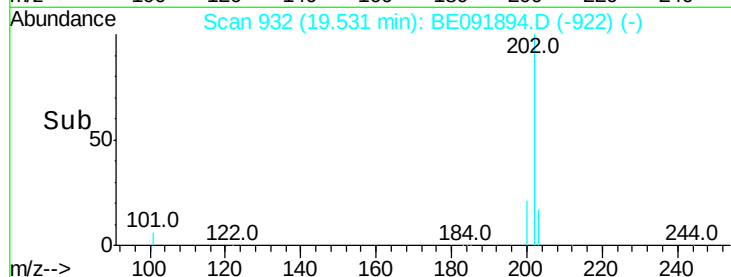
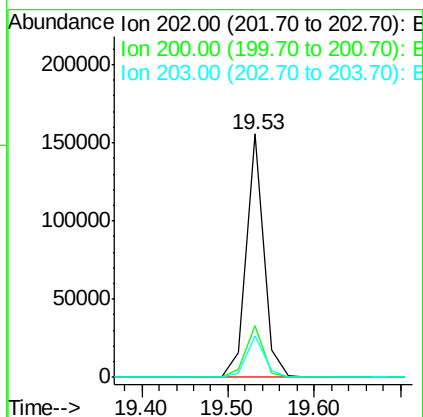
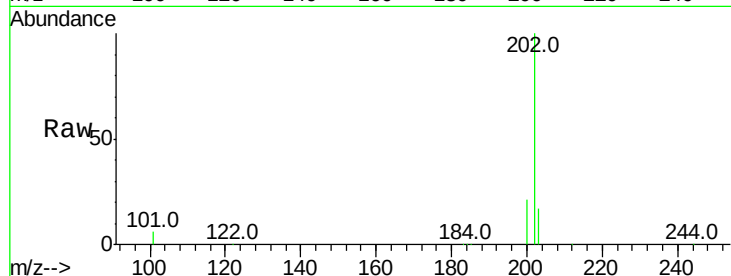




#33
Pvrene
Concen: 3.77 ng
RT: 19.53 min Scan# 932
Delta R.T. -0.00 min
Lab File: BE091894.D
Acq: 8 Jun 2016 2:36

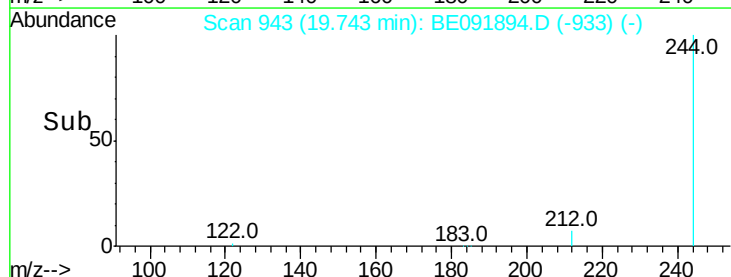
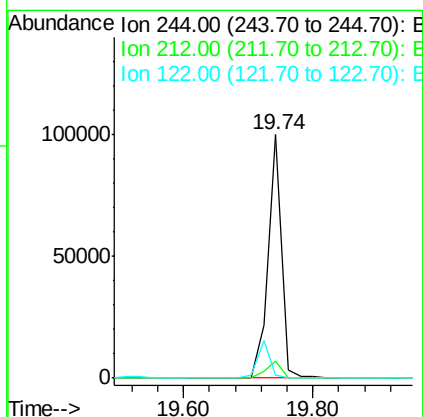
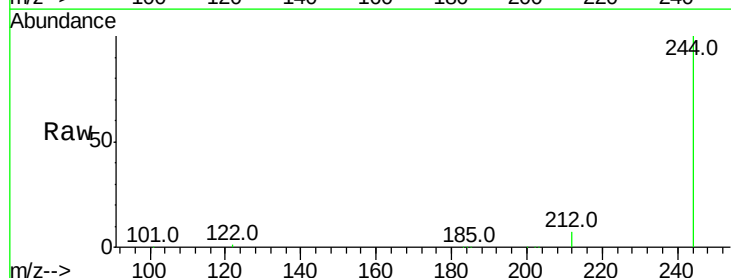
Instrument :
BNA_E
ClientSampleId :

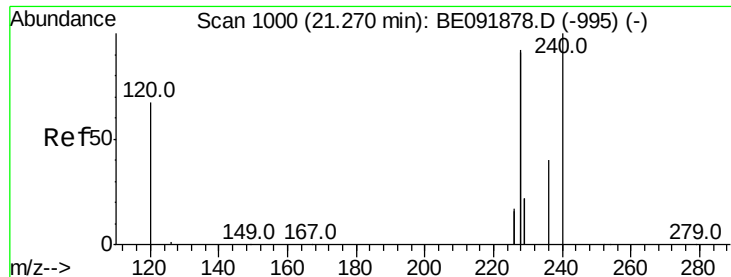
Tot Ion	Ratio	Lower	Upper
202	100		
200	21.5	16.9	25.3
203	17.7	14.1	21.1



#34
Terphenyl-d14
Concen: -5.00 ng
RT: 19.74 min Scan# 943
Delta R.T. 0.00 min
Lab File: BE091894.D
Acq: 8 Jun 2016 2:36

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.9	6.5	9.7
122	1.0	2.9	4.3#

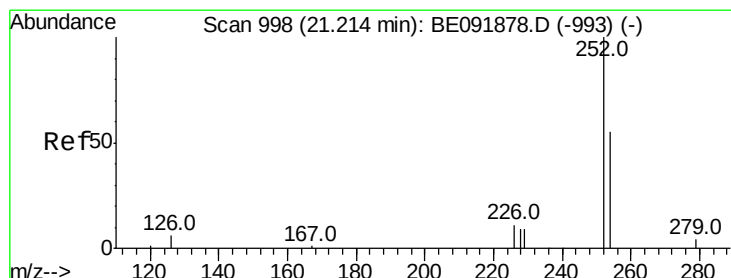
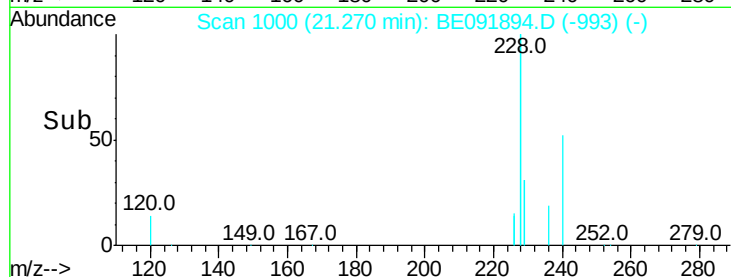
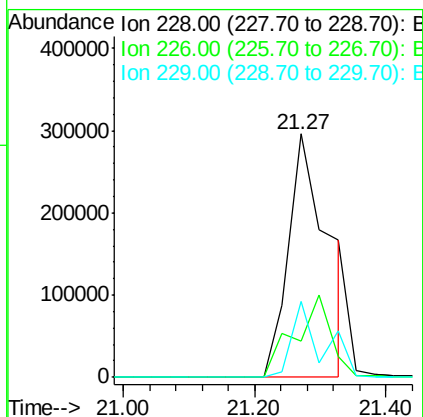
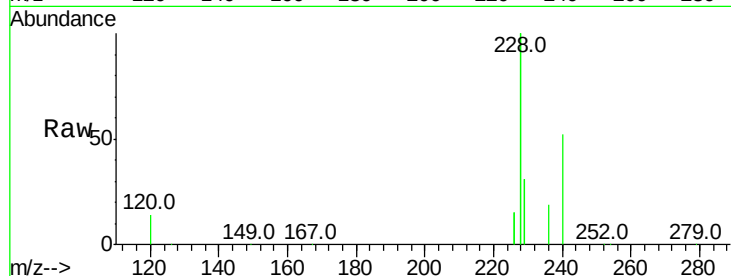




#35
Benzo(a)anthracene
Concen: 4.50 ng
RT: 21.27 min Scan# 1000
Delta R.T. -0.00 min
Lab File: BE091894.D
Acq: 8 Jun 2016 2:36

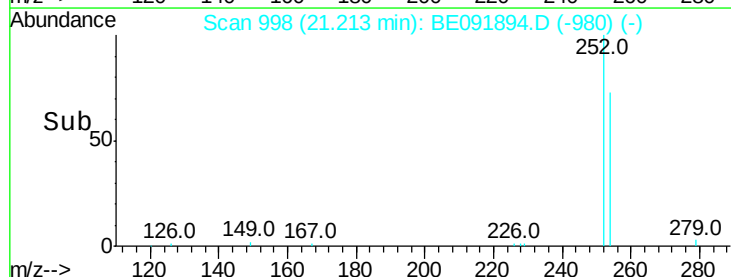
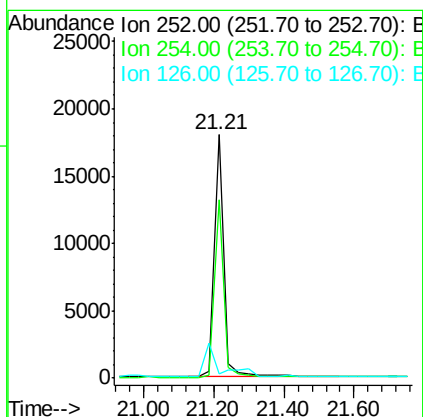
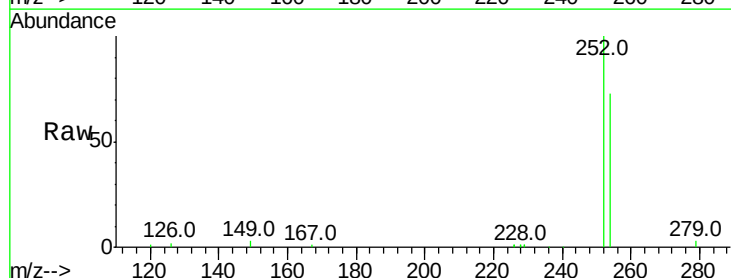
Instrument :
BNA_E
ClientSampleId :

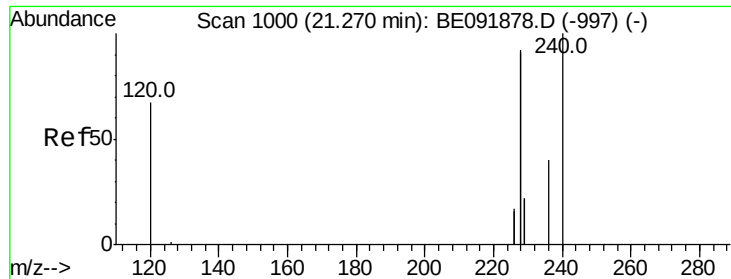
Tot Ion:228 Resp: 1240868
Ion Ratio Lower Upper
228 100
226 14.7 21.0 31.4#
229 31.2 15.8 23.8#



#36
3,3'-Dichlorobenzidine
Concen: 1.93 ng
RT: 21.21 min Scan# 998
Delta R.T. 0.00 min
Lab File: BE091894.D
Acq: 8 Jun 2016 2:36

Tgt Ion:252 Resp: 34962
Ion Ratio Lower Upper
252 100
254 73.4 61.5 92.3
126 1.6 2.5 3.7#





#37

Chrysene

Concen: 5.35 ng

RT: 21.27 min Scan# 1000

Delta R.T. -0.06 min

Lab File: BE091894.D

Acq: 8 Jun 2016 2:36

Instrument :

BNA_E

ClientSampleId :

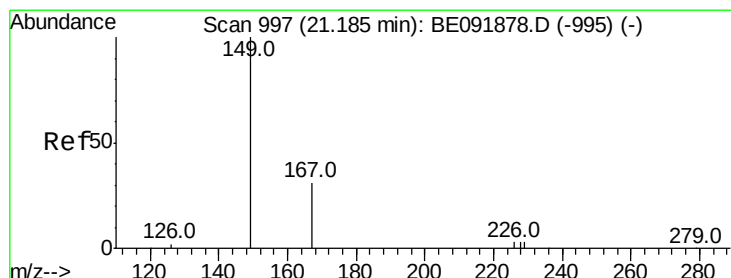
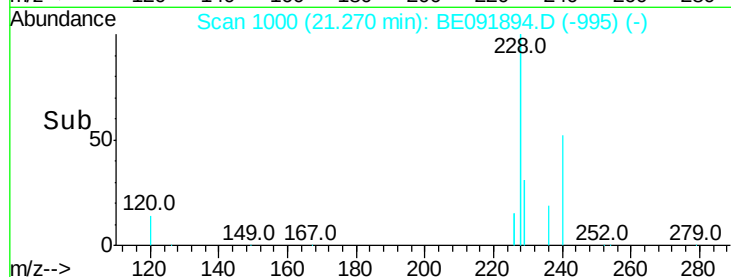
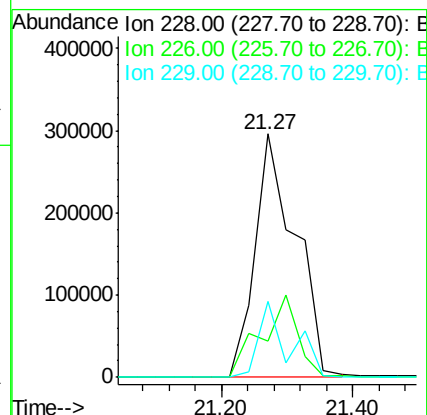
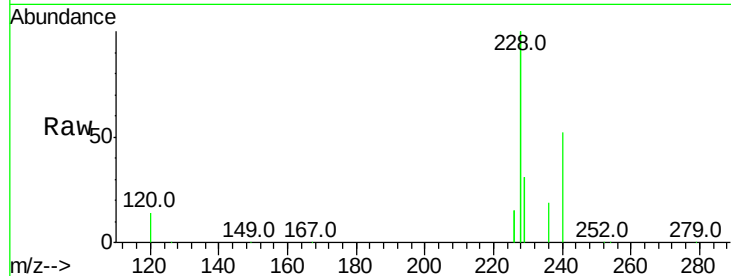
Tot Ion:228 Resp: 1261576

Ion Ratio Lower Upper

228 100

226 14.7 27.0 40.6#

229 31.2 13.8 20.8#



#38

Bis(2-ethylhexyl)phthalate

Concen: 2.50 ng

RT: 21.18 min Scan# 997

Delta R.T. -0.00 min

Lab File: BE091894.D

Acq: 8 Jun 2016 2:36

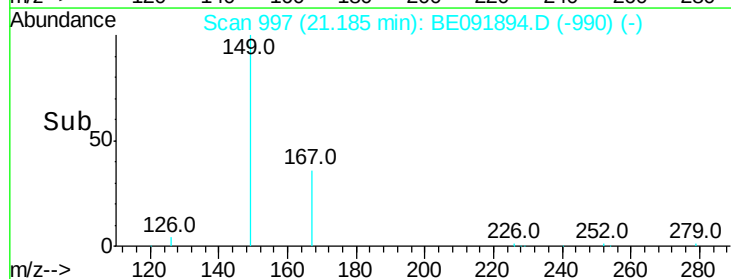
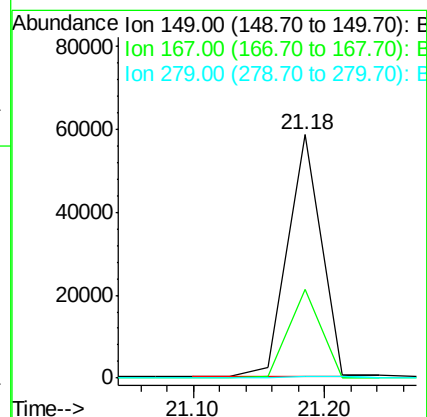
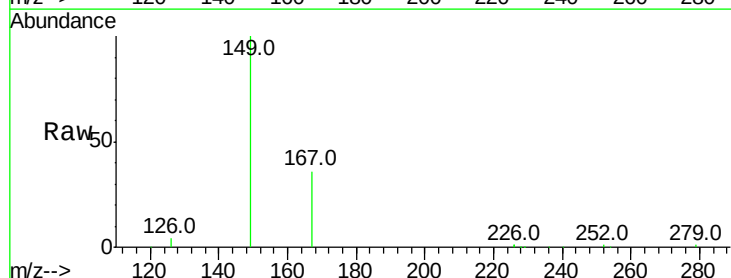
Tgt Ion:149 Resp: 103704

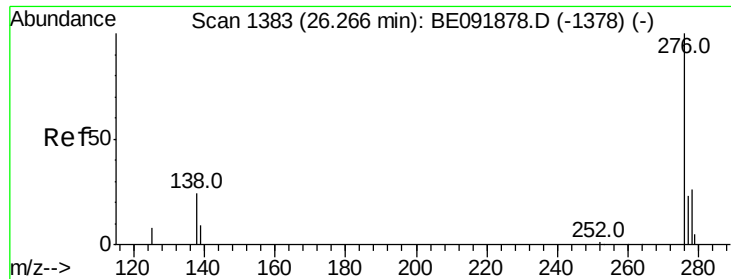
Ion Ratio Lower Upper

149 100

167 35.4 0.0 0.0#

279 0.0 0.0 0.0





#39

Indeno(1,2,3-cd)pyrene

Concen: 4.48 ng

RT: 26.27 min Scan# 1383

Delta R.T. 0.00 min

Lab File: BE091894.D

Acq: 8 Jun 2016 2:36

Instrument :

BNA_E

ClientSampleId :

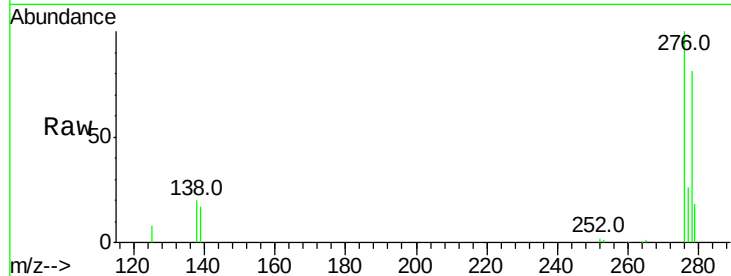
Tot Ion:276 Resp: 239739

Ion Ratio Lower Upper

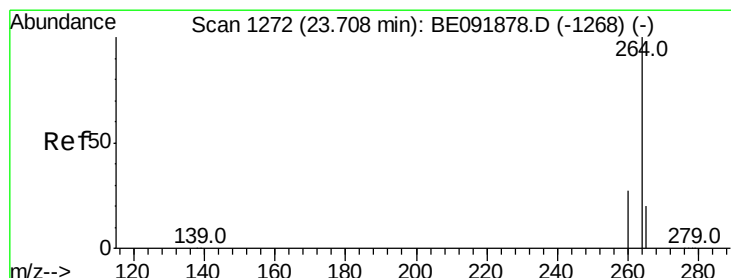
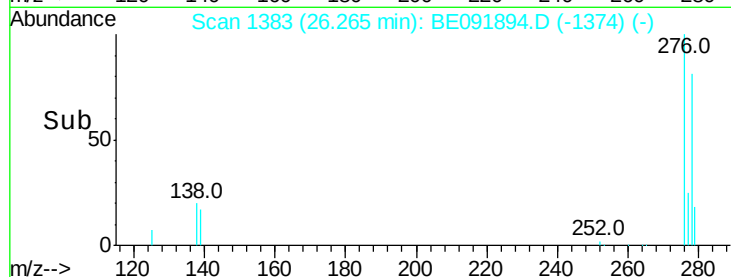
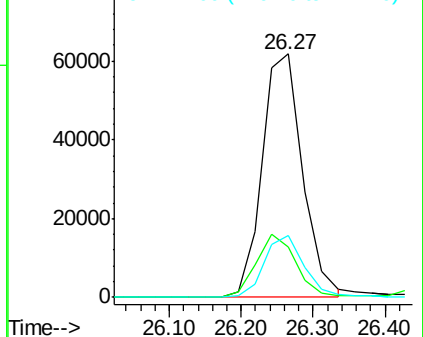
276 100

138 0.0 19.7 29.5#

277 24.8 20.1 30.1



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



#40

Perylene-d12

Concen: 5.00 ng

RT: 23.71 min Scan# 1272

Delta R.T. -0.00 min

Lab File: BE091894.D

Acq: 8 Jun 2016 2:36

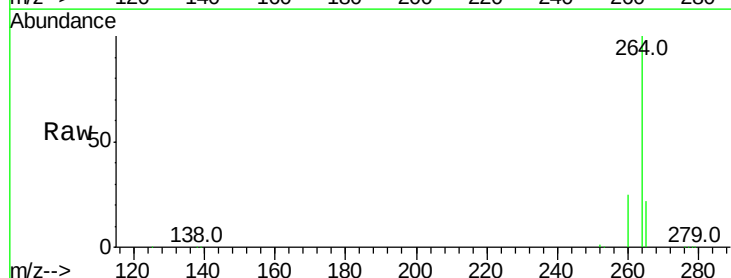
Tgt Ion:264 Resp: 333296

Ion Ratio Lower Upper

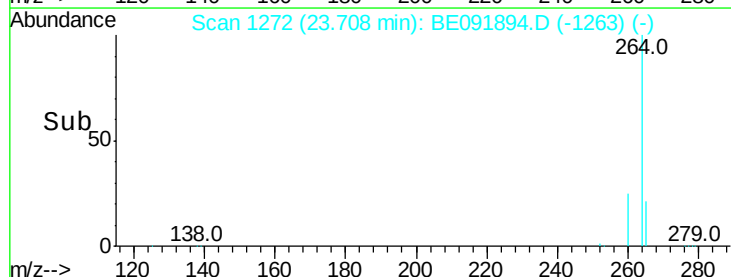
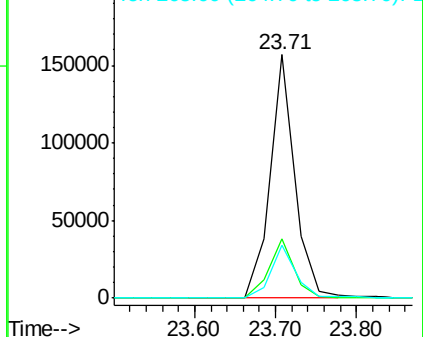
264 100

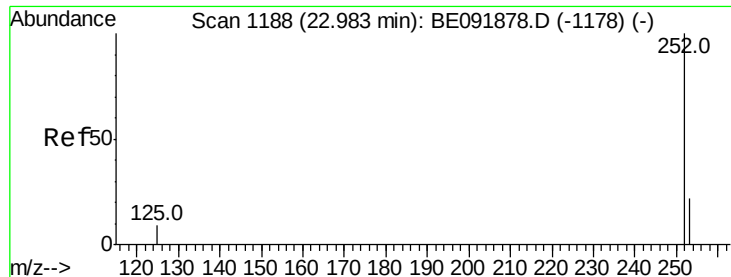
260 24.6 20.3 30.5

265 21.6 17.6 26.4



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





#41

Benzo(b)fluoranthene

Concen: 2.79 ng

RT: 22.97 min Scan# 1186

Delta R.T. -0.01 min

Lab File: BE091894.D

Acq: 8 Jun 2016 2:36

Instrument :

BNA_E

ClientSampleId :

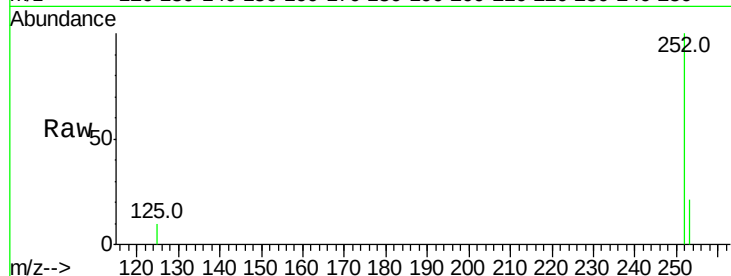
Tot Ion:252 Resp: 226858

Ion Ratio Lower Upper

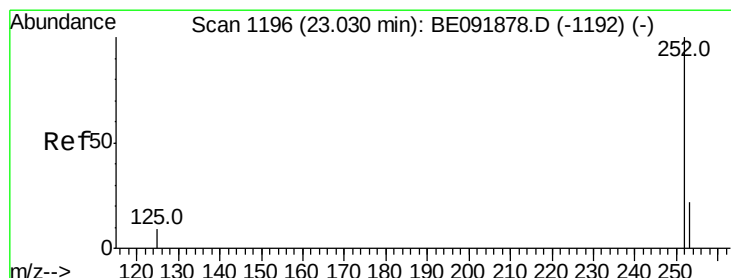
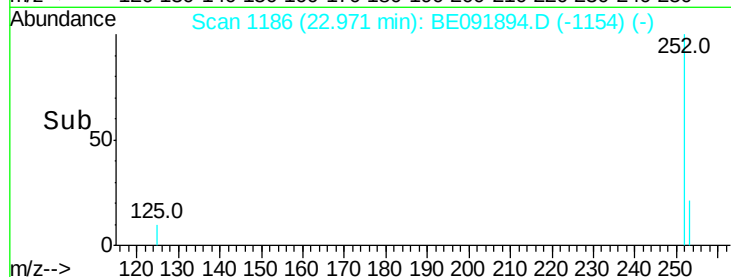
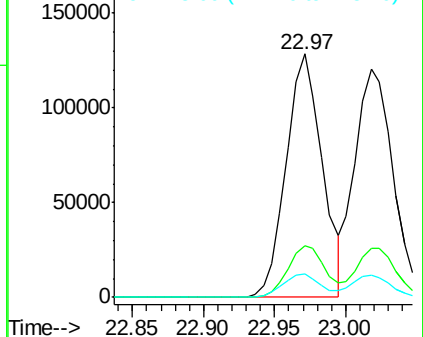
252 100

253 21.4 17.8 26.6

125 9.6 9.4 14.2



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



#42

Benzo(k)fluoranthene

Concen: 2.74 ng

RT: 23.02 min Scan# 1194

Delta R.T. -0.01 min

Lab File: BE091894.D

Acq: 8 Jun 2016 2:36

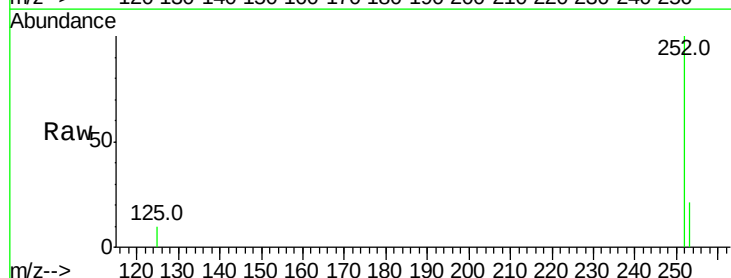
Tgt Ion:252 Resp: 231344

Ion Ratio Lower Upper

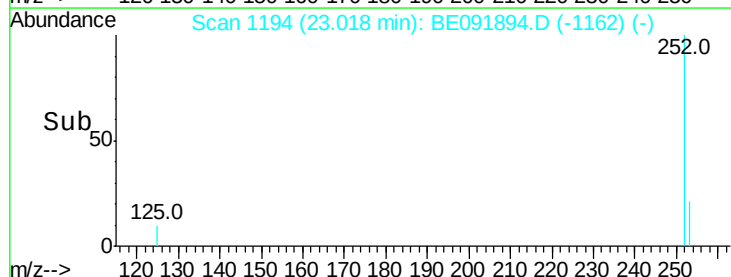
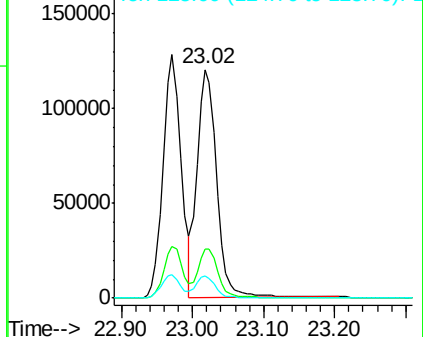
252 100

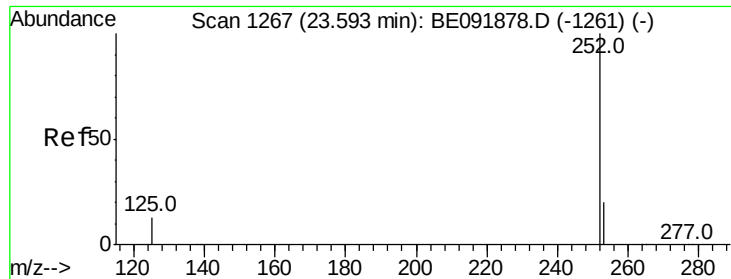
253 21.4 19.4 29.2

125 9.8 8.3 12.5



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





#43

Benzo(a)pyrene

Concen: 2.83 ng

RT: 23.59 min Scan# 1267

Delta R.T. -0.00 min

Lab File: BE091894.D

Acq: 8 Jun 2016 2:36

Instrument :

BNA_E

ClientSampleId :

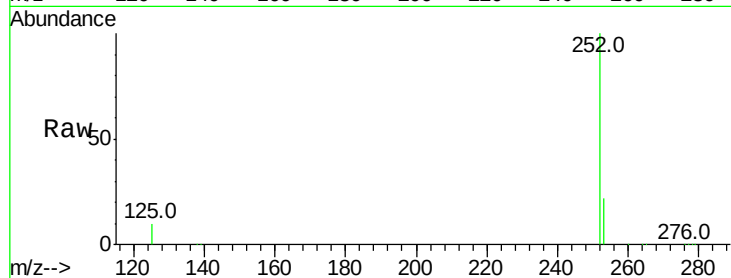
Tot Ion:252 Resp: 215765

Ion Ratio Lower Upper

252 100

253 21.8 18.9 28.3

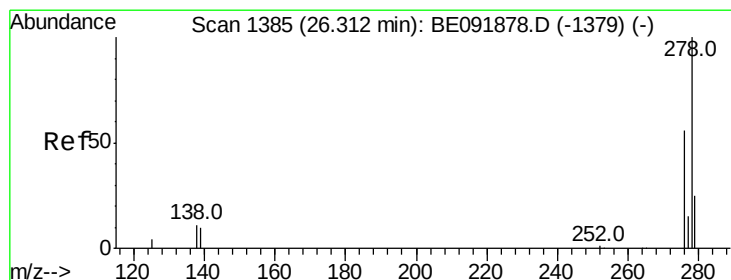
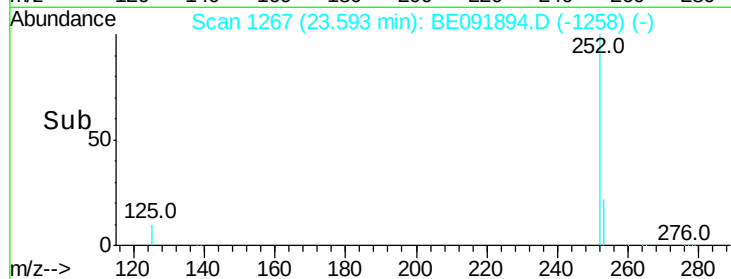
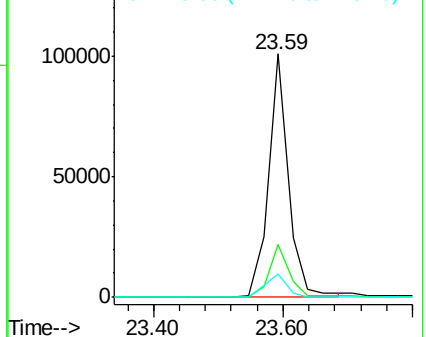
125 9.8 10.5 15.7#



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



#44

Dibenzo(a,h)anthracene

Concen: 2.84 ng

RT: 26.29 min Scan# 1384

Delta R.T. -0.02 min

Lab File: BE091894.D

Acq: 8 Jun 2016 2:36

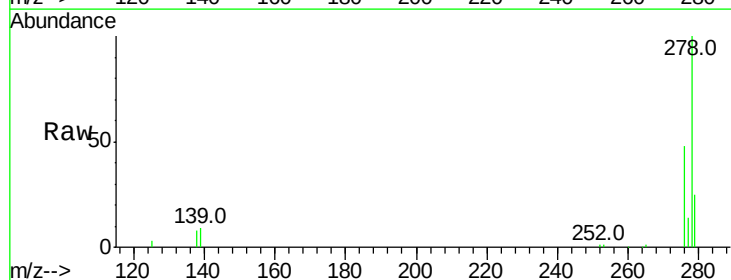
Tgt Ion:278 Resp: 202397

Ion Ratio Lower Upper

278 100

139 9.1 12.6 18.8#

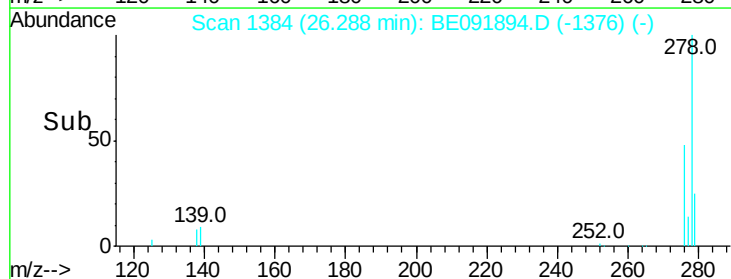
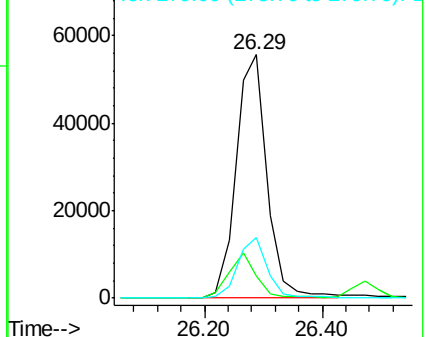
279 24.8 20.0 30.0

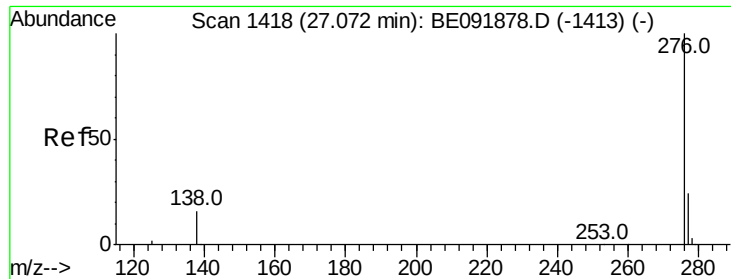


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#45

Benzo(a,h,i)perylene

Concen: 2.77 ng

RT: 27.05 min Scan# 1417

Delta R.T. -0.02 min

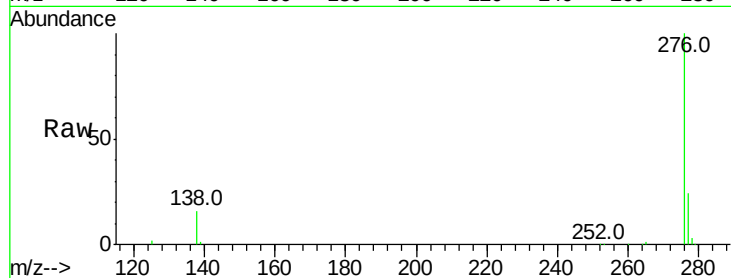
Lab File: BE091894.D

Acq: 8 Jun 2016 2:36

Instrument :

BNA_E

ClientSampleId :



Tot Ion: 276 Resp: 206856

Ion Ratio Lower Upper

276 100

277 24.4 19.5 29.3

138 15.8 17.7 26.5

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

