

Data Path : Z:\HPCHEM1\BNA F\Data\BF110416\
 Data File : BF091016.D
 Acq On : 4 Nov 2016 10:20
 Operator : UM/SJ
 Sample : H5509-25
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Nov 04 10:49:07 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110316.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 04 11:03:12 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.704	152	186014	20.00	ng	0.00
21) Naphthalene-d8	7.985	136	737581	20.00	ng	-0.01
38) Acenaphthene-d10	9.745	164	406671	20.00	ng	0.00
63) Phenanthrene-d10	11.219	188	634731	20.00	ng	-0.01
75) Chrysene-d12	13.859	240	576068	20.00	ng	0.00
86) Perylene-d12	15.242	264	409643	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.299	112	994584	88.31	ng	0.01
7) Phenol-d6	6.350	99	929435	60.80	ng	0.00
23) Nitrobenzene-d5	7.276	82	1559748	115.36	ng	0.00
41) 2,4,6-Tribromophenol	10.533	330	452575	123.10	ng	0.00
44) 2-Fluorobiphenyl	9.070	172	2202799	93.25	ng	0.00
78) Terphenyl-d14	12.819	244	2264290	98.09	ng	0.01

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	2.258	88	28889	4.48	ng	89
4) n-Nitrosodimethylamine	2.853	42	878	0.15	ng	# 1
6) Aniline	6.373	93	2528	0.14	ng	# 1
8) 2-Chlorophenol	6.487	128	870	0.06	ng	# 1
9) Benzaldehyde	6.476	77	37862	4.46	ng	91
10) Phenol	6.362	94	11561	0.68	ng	87
11) bis(2-Chloroethyl)ether	6.476	93	2315	0.16	ng	# 1
12) 1,3-Dichlorobenzene	6.716	146	225	0.02	ng	# 1
13) 1,4-Dichlorobenzene	6.716	146	225	0.02	ng	# 22
14) 1,2-Dichlorobenzene	6.716	146	225	0.02	ng	# 27
15) Benzyl Alcohol	6.853	79	23891	2.22	ng	# 55
16) 2,2'-oxybis(1-Chloropr...	6.899	45	9577	0.47	ng	84
17) 2-Methylphenol	6.979	107	226	0.02	ng	# 51
18) Hexachloroethane	7.459	117	1620	0.29	ng	# 2
19) n-Nitroso-di-n-propyla...	7.276	70	216122	20.40	ng	# 75
20) 3+4-Methylphenols	7.150	107	957	0.07	ng	# 75
22) Acetophenone	7.127	105	485	0.03	ng	# 1
24) Nitrobenzene	7.276	77	5830	0.39	ng	# 38
25) Isophorone	7.276	82	1420311	54.51	ng	# 67
27) 2,4-Dimethylphenol	7.676	122	223	0.02	ng	# 4
28) bis(2-Chloroethoxy)met...	7.482	93	218	0.02	ng	# 1
31) Naphthalene	8.007	128	18938	0.54	ng	99
32) Benzoic acid	7.767	122	1487	5.24	ng	# 72
33) 4-Chloroaniline	8.007	127	2311	0.16	ng	# 41
35) Caprolactam	8.442	113	300	0.10	ng	# 1
36) 4-Chloro-3-methylphenol	8.567	107	278	0.03	ng	# 17
37) 2-Methylnaphthalene	8.705	142	4596	0.20	ng	98
45) 1,1'-Biphenyl	9.173	154	2525	0.09	ng	89
47) 2-Nitroaniline	9.230	65	1784	0.21	ng	# 6
48) Acenaphthylene	9.596	152	1241	0.04	ng	# 59
49) Dimethylphthalate	9.470	163	11348	0.43	ng	# 81
50) 2,6-Dinitrotoluene	9.745	165	53027	9.28	ng	# 11
51) Acenaphthene	9.768	154	11863	0.54	ng	99
52) 3-Nitroaniline	9.505	138	212	0.03	ng	# 1

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 ALS Vial : 5 Sample Multiplier: 1

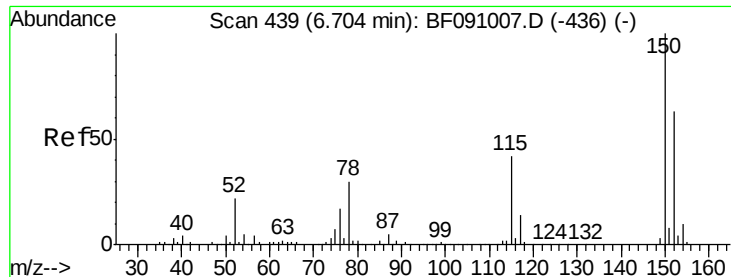
Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Nov 04 10:49:07 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110316.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 04 11:03:12 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

54) Dibenzofuran	9.950	168	16908	0.57	nq	98
55) 4-Nitrophenol	9.950	139	7293	7.23	nq	# 14
56) 2,4-Dinitrotoluene	10.030	165	1668	0.23	nq	# 79
57) Fluorene	10.282	166	16214	0.67	nq	# 96
59) Diethylphthalate	10.168	149	12254	0.45	nq	97
61) 4-Nitroaniline	10.453	138	454	0.07	nq	# 46
62) Azobenzene	10.442	77	1867	0.06	nq	# 1
64) 4,6-Dinitro-2-methylph...	10.533	198	1017	0.26	nq	# 1
65) n-Nitrosodiphenylamine	10.533	169	15996	0.79	nq	# 43
66) 4-Bromophenyl-phenvlether	10.533	248	32057	4.86	nq	# 1
70) Phenanthrene	11.242	178	141448	4.19	nq	98
71) Anthracene	11.299	178	21802	0.61	nq	98
72) Carbazole	11.459	167	23224	0.72	nq	97
73) Di-n-butylphthalate	11.791	149	21076	0.52	nq	# 97
74) Fluoranthene	12.431	202	54612	1.56	nq	92
76) Benzidine	12.579	184	1605	0.12	nq	# 1
77) Pyrene	12.659	202	36648	0.97	nq	99
79) Butylbenzylphthalate	13.276	149	2862	0.16	nq	# 76
80) Benzo(a)anthracene	13.848	228	9446	0.29	nq	# 91
81) 3,3'-Dichlorobenzidine	13.711	252	230	0.02	nq	# 1
82) Chrysene	13.848	228	9446	0.29	nq	# 88
83) Bis(2-ethylhexyl)phtha...	13.837	149	59915	2.45	nq	100
84) Di-n-octyl phthalate	14.488	149	201867	5.03	nq	# 53
85) Indeno(1,2,3-cd)pyrene	16.557	276	652	0.02	nq	# 46
87) Benzo(b)fluoranthene	14.854	252	3074	0.11	nq	# 52
88) Benzo(k)fluoranthene	14.854	252	3074	0.13	nq	# 53
89) Benzo(a)pyrene	15.185	252	690	0.03	nq	# 1
91) Benzo(a,h,i)perylene	16.945	276	493	0.03	nq	# 48

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



#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.704 min Scan# 43

Delta R.T. 0.000 min

Lab File: BF091016.D

Acq: 4 Nov 2016 10:20

Instrument :

BNA_F

ClientSampleId :

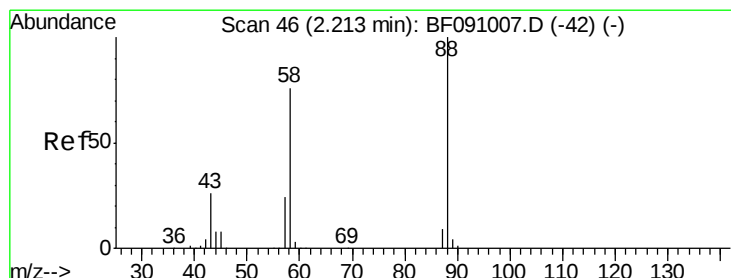
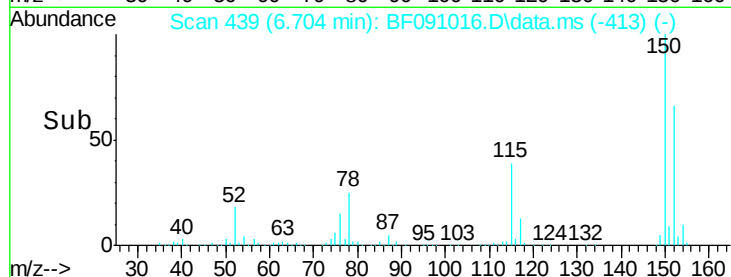
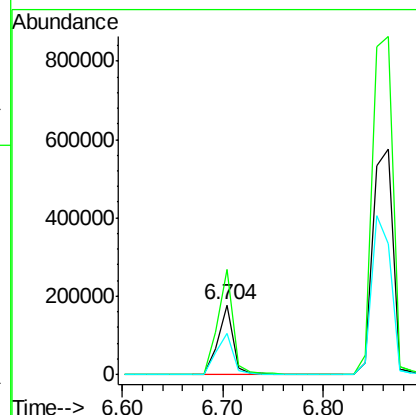
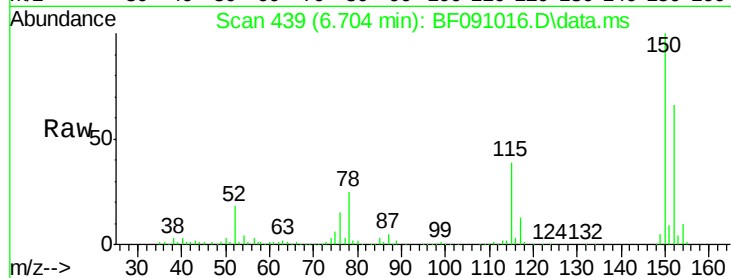
Tot Ion:152 Resp: 186014

Ion Ratio Lower Upper

152 100

150 151.4 126.8 190.2

115 59.4 53.3 79.9



#2

1,4-Dioxane

Concen: 4.48 ng

RT: 2.258 min Scan# 50

Delta R.T. 0.046 min

Lab File: BF091016.D

Acq: 4 Nov 2016 10:20

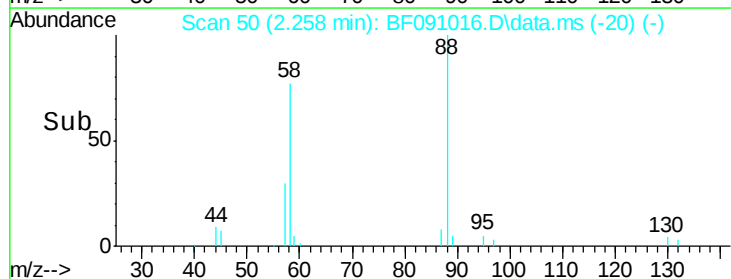
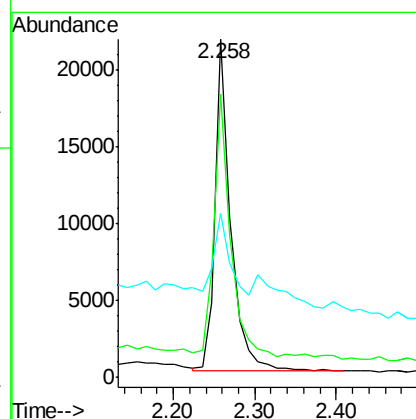
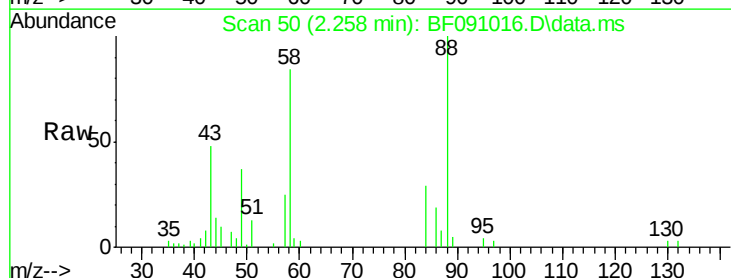
Tgt Ion: 88 Resp: 28889

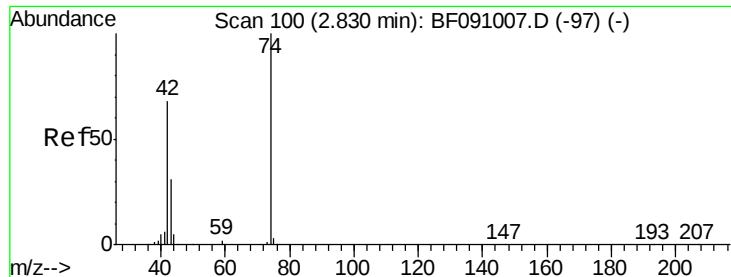
Ion Ratio Lower Upper

88 100

58 90.4 63.8 95.6

43 24.0 22.6 33.8





#4

n-Nitrosodimethylamine

Concen: 0.15 ng

RT: 2.853 min Scan# 10

Delta R.T. 0.024 min

Lab File: BF091016.D

Acq: 4 Nov 2016 10:20

Instrument :

BNA_F

ClientSampleId :

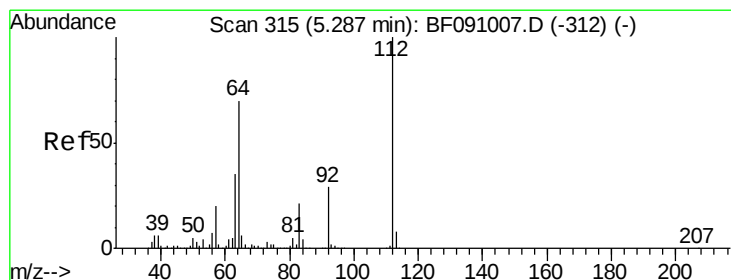
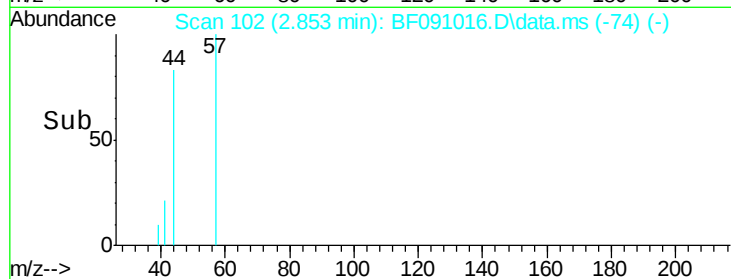
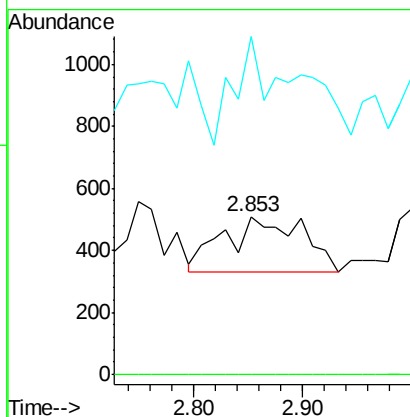
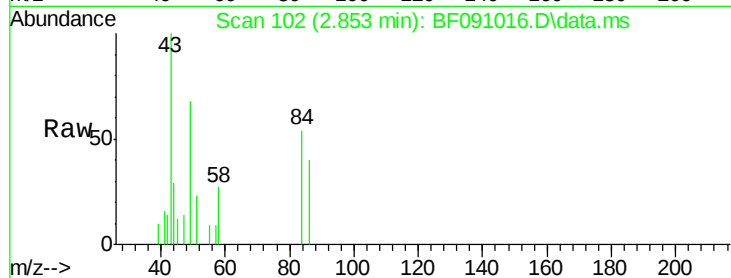
Tot Ion: 42 Resp: 878

Ion Ratio Lower Upper

42 100

74 0.0 117.3 175.9#

44 214.6 5.8 8.8#



#5

2-Fluorophenol

Concen: 88.31 ng

RT: 5.299 min Scan# 316

Delta R.T. 0.011 min

Lab File: BF091016.D

Acq: 4 Nov 2016 10:20

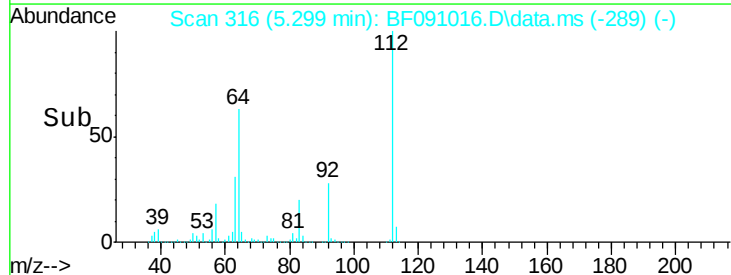
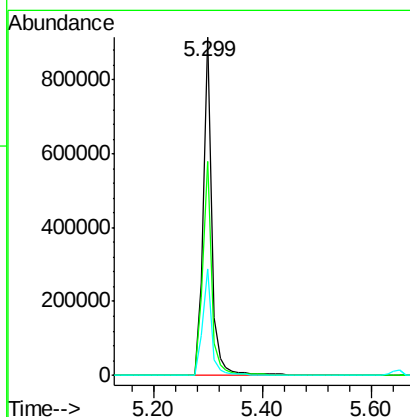
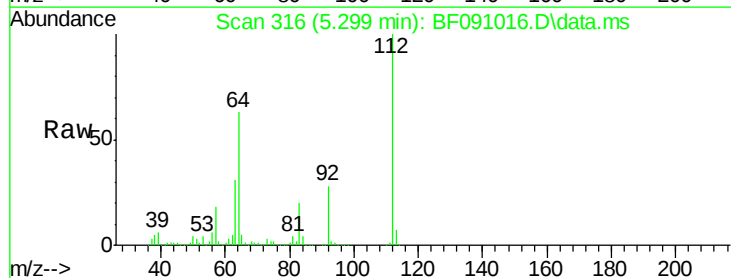
Tgt Ion: 112 Resp: 994584

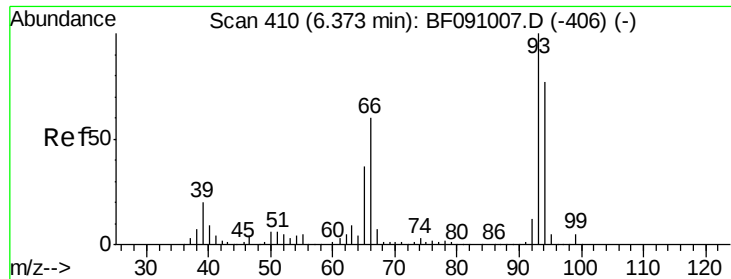
Ion Ratio Lower Upper

112 100

64 63.2 55.8 83.6

63 31.5 28.0 42.0





#6

Aniline

Concen: 0.14 ng

RT: 6.373 min Scan# 41

Delta R.T. 0.000 min

Lab File: BF091016.D

Acq: 4 Nov 2016 10:20

Instrument :

BNA_F

ClientSampleId :

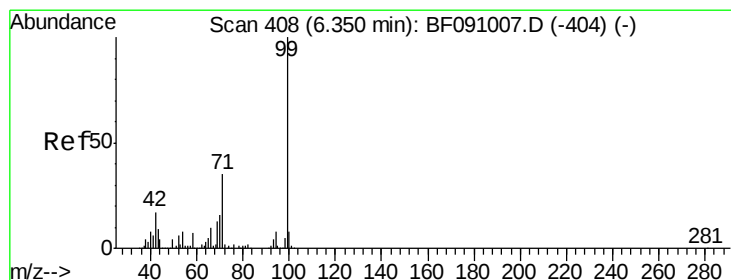
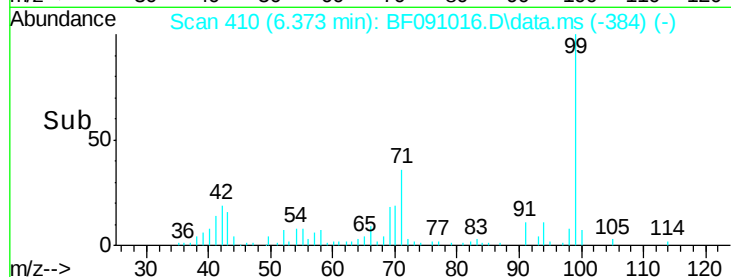
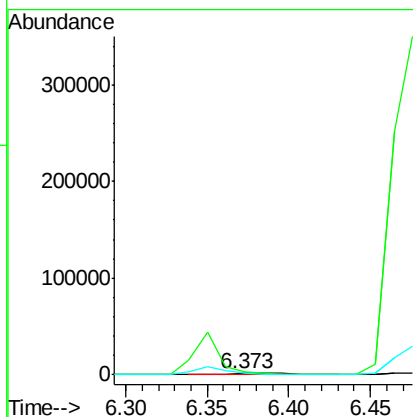
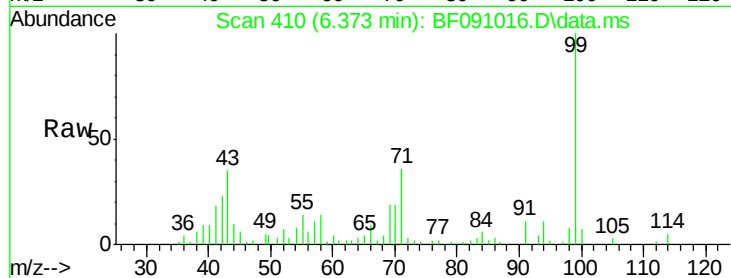
Tot Ion: 93 Resp: 2528

Ion Ratio Lower Upper

93 100

66 250.3 48.2 72.2#

65 109.9 29.4 44.0#



#7

Phenol-d6

Concen: 60.80 ng

RT: 6.350 min Scan# 408

Delta R.T. 0.000 min

Lab File: BF091016.D

Acq: 4 Nov 2016 10:20

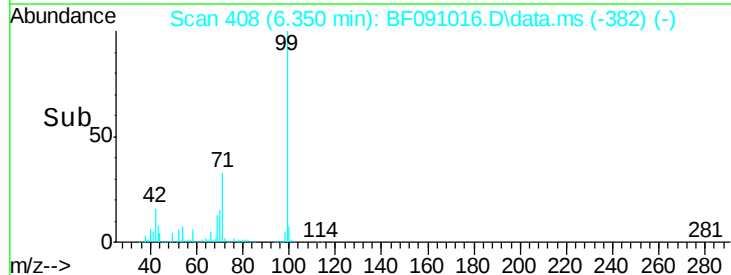
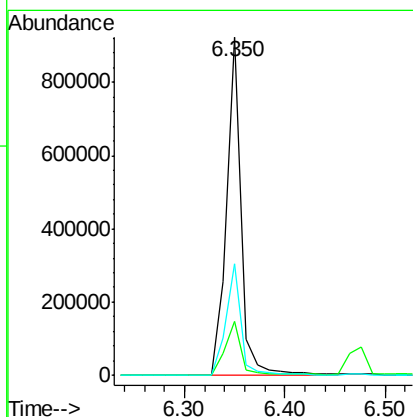
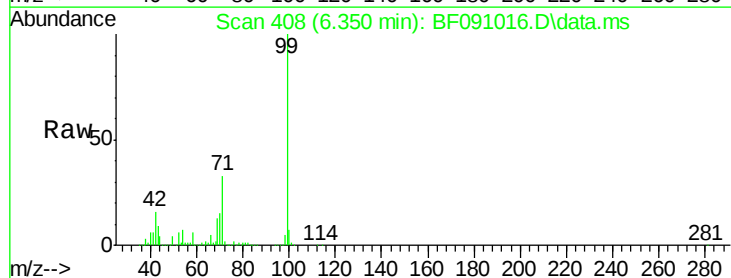
Tgt Ion: 99 Resp: 929435

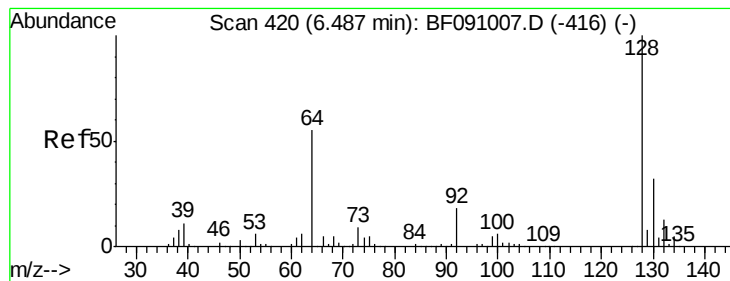
Ion Ratio Lower Upper

99 100

42 15.9 13.9 20.9

71 33.1 27.8 41.8





#8

2-Chlorophenol

Concen: 0.06 ng

RT: 6.487 min Scan# 42

Delta R.T. 0.000 min

Lab File: BF091016.D

Acq: 4 Nov 2016 10:20

Instrument :

BNA_F

ClientSampled :

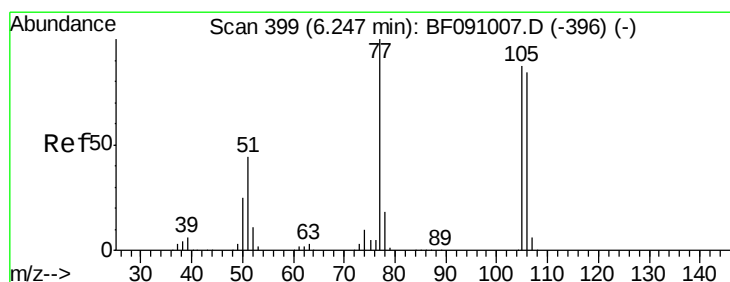
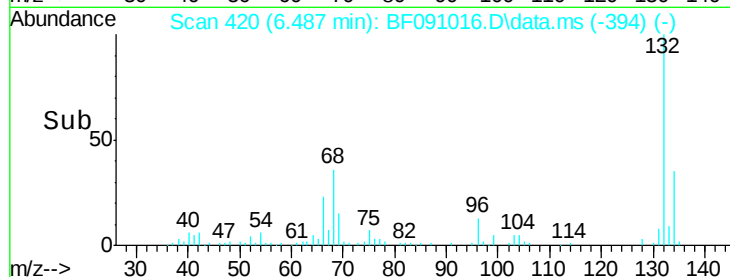
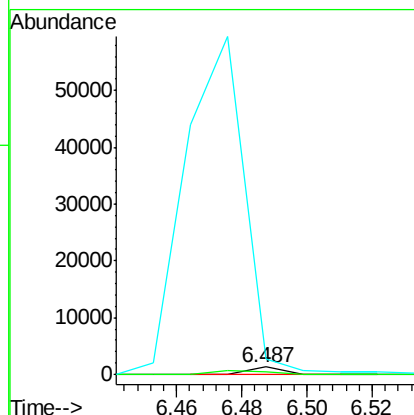
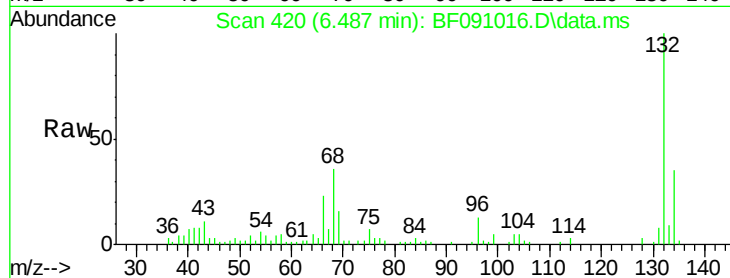
Tot Ion:128 Resp: 870

Ion Ratio Lower Upper

128 100

130 40.2 12.0 52.0

64 213.4 37.2 77.2#



#9

Benzaldehyde

Concen: 4.46 ng

RT: 6.476 min Scan# 419

Delta R.T. 0.229 min

Lab File: BF091016.D

Acq: 4 Nov 2016 10:20

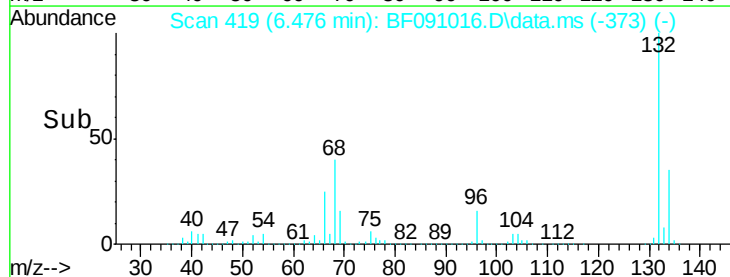
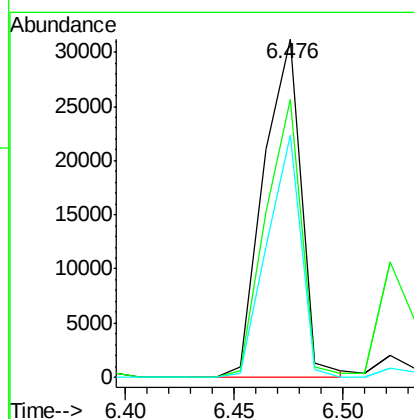
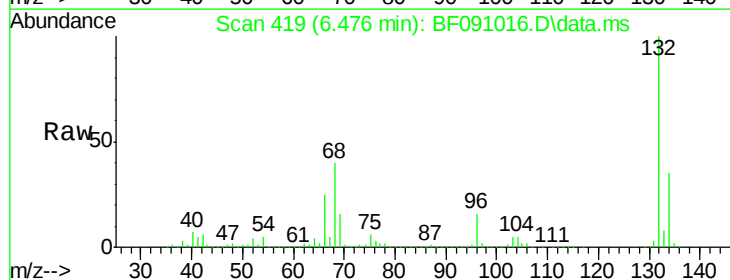
Tgt Ion: 77 Resp: 37862

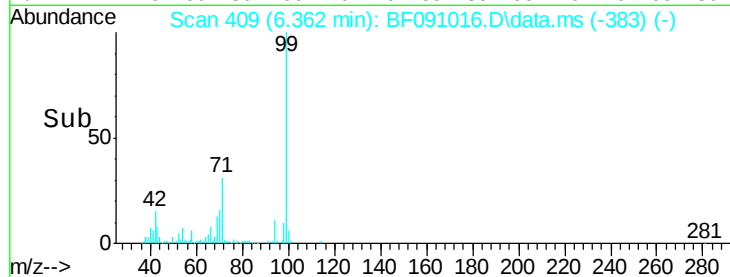
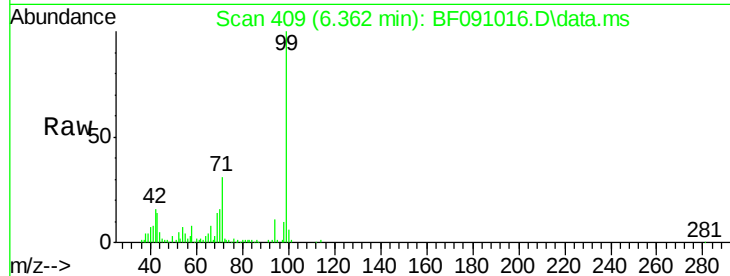
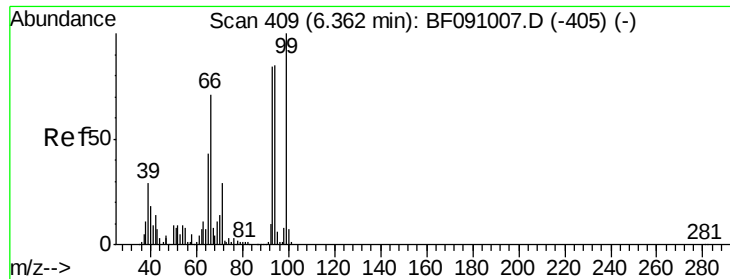
Ion Ratio Lower Upper

77 100

105 82.0 66.8 106.8

106 71.7 64.0 104.0





#10

Phenol

Concen: 0.68 ng

RT: 6.362 min Scan# 409

Delta R.T. 0.000 min

Lab File: BF091016.D

Acq: 4 Nov 2016 10:20

Instrument :

BNA_F

ClientSampleId :

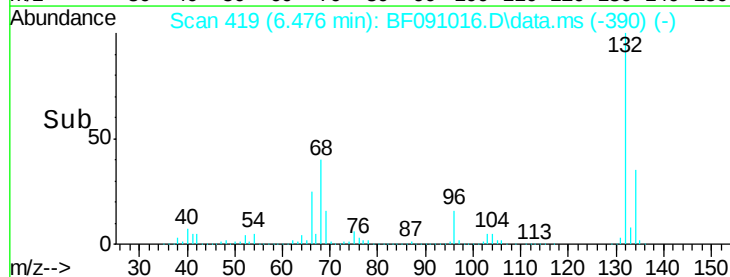
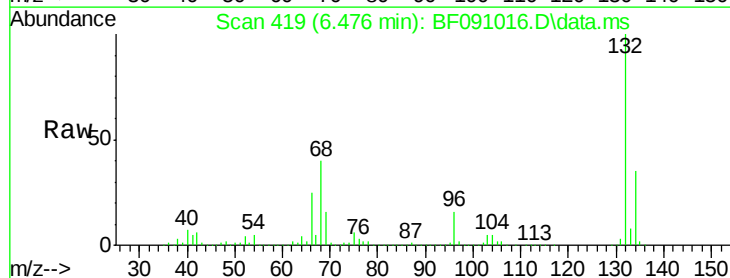
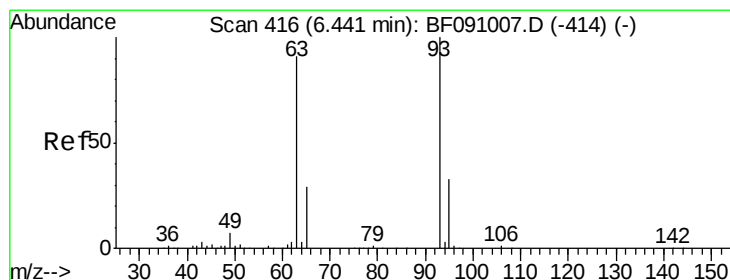
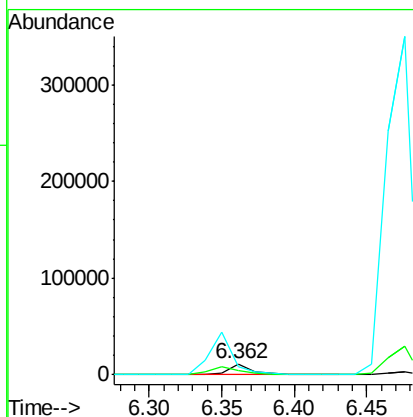
Tot Ion: 94 Resp: 11561

Ion Ratio Lower Upper

94 100

65 36.0 30.4 70.4

66 75.7 62.9 102.9



#11

bis(2-Chloroethyl)ether

Concen: 0.16 ng

RT: 6.476 min Scan# 419

Delta R.T. 0.034 min

Lab File: BF091016.D

Acq: 4 Nov 2016 10:20

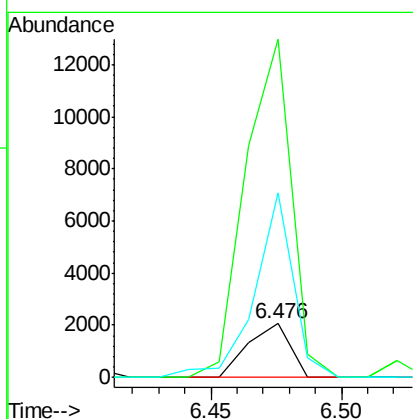
Tgt Ion: 93 Resp: 2315

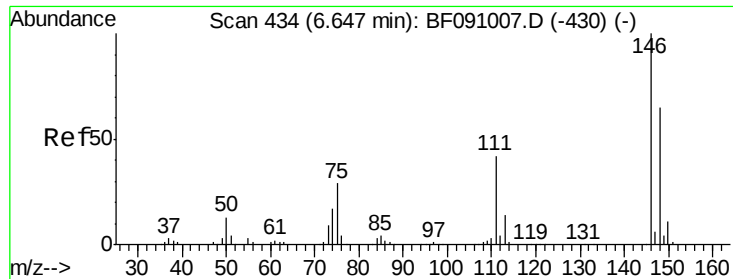
Ion Ratio Lower Upper

93 100

63 629.7 68.9 108.9#

95 343.6 12.3 52.3#





#12

1,3-Dichlorobenzene

Concen: 0.02 ng

RT: 6.716 min Scan# 440

Delta R.T. 0.069 min

Lab File: BF091016.D

Acq: 4 Nov 2016 10:20

Instrument :

BNA_F

ClientSampleId :

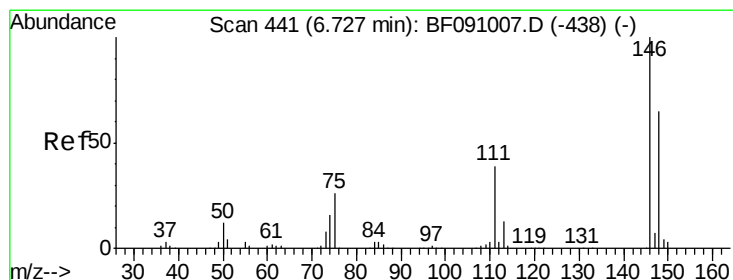
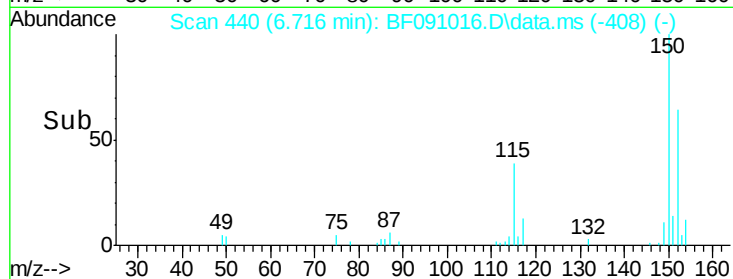
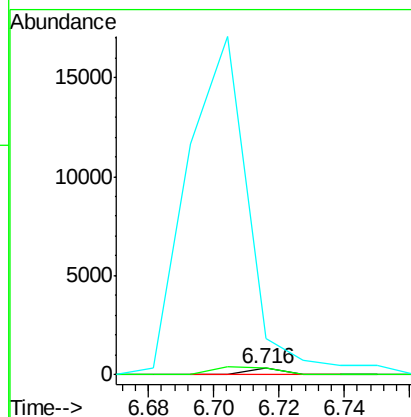
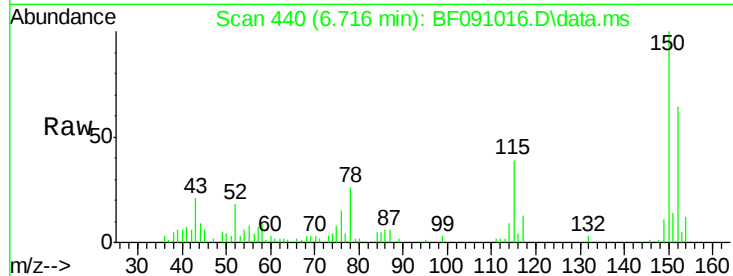
Tot Ion:146 Resp: 225

Ion Ratio Lower Upper

146 100

148 106.1 52.0 78.0#

75 555.8 23.0 34.6#



#13

1,4-Dichlorobenzene

Concen: 0.02 ng

RT: 6.716 min Scan# 440

Delta R.T. -0.011 min

Lab File: BF091016.D

Acq: 4 Nov 2016 10:20

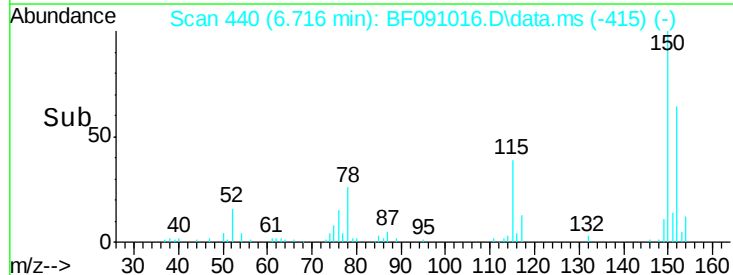
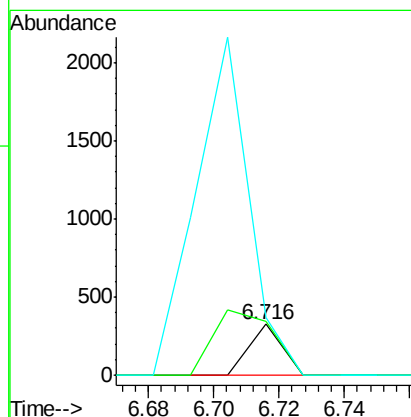
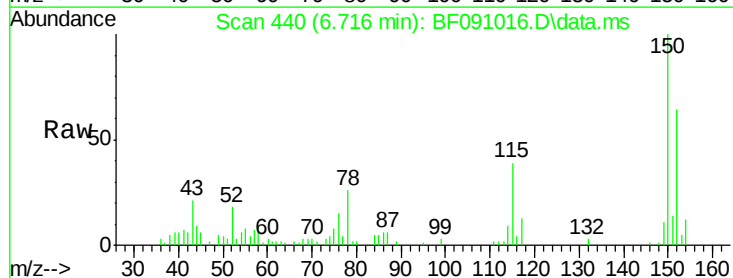
Tgt Ion:146 Resp: 225

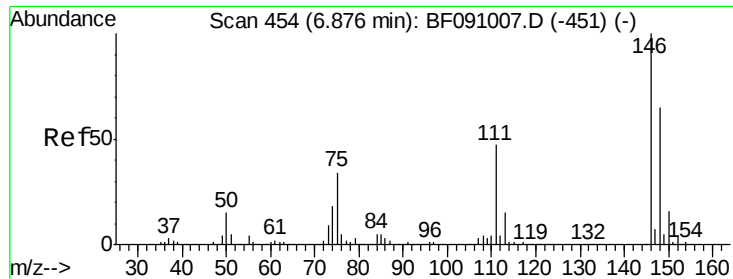
Ion Ratio Lower Upper

146 100

148 106.1 52.1 78.1#

111 113.4 31.6 47.4#

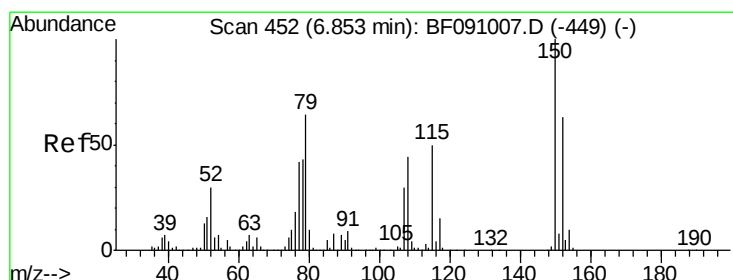
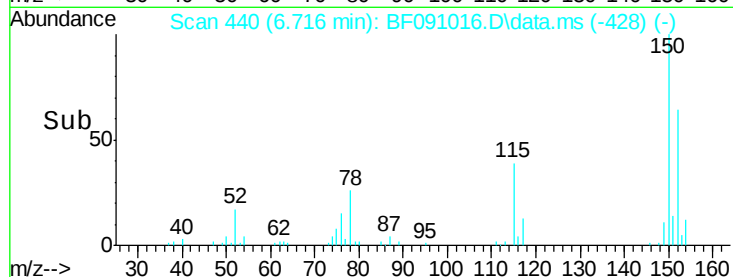
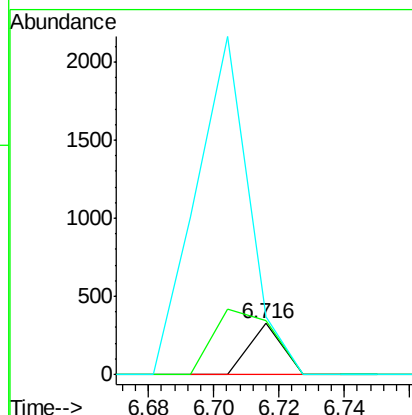
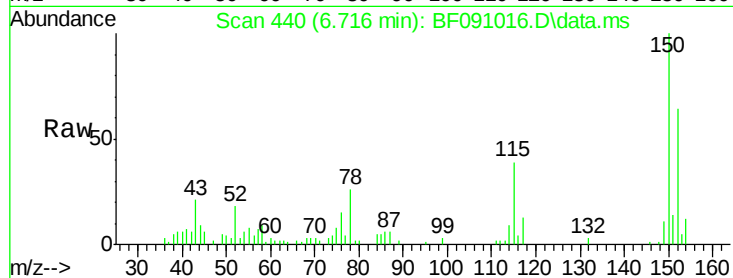




#14
 1,2-Dichlorobenzene
 Concen: 0.02 ng
 RT: 6.716 min Scan# 44
 Delta R.T. -0.160 min
 Lab File: BF091016.D
 Acq: 4 Nov 2016 10:20

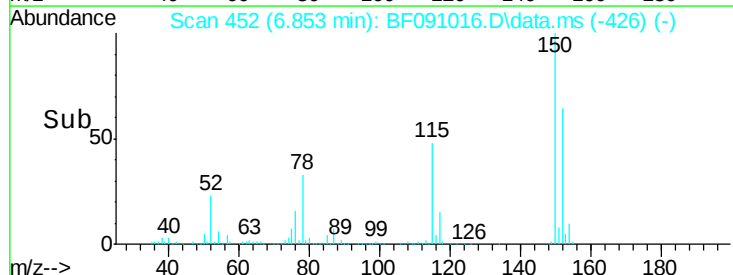
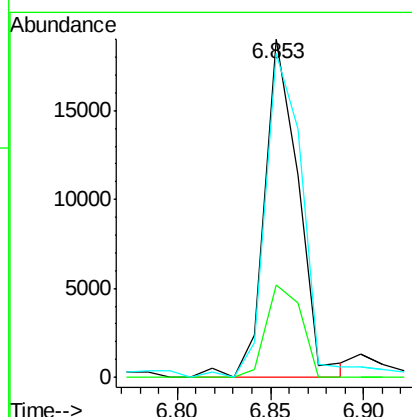
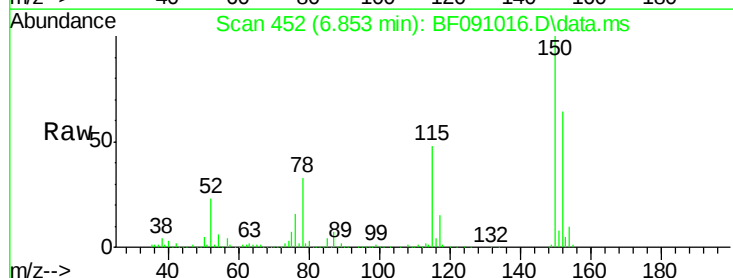
Instrument :
 BNA_F
 ClientSampleId :

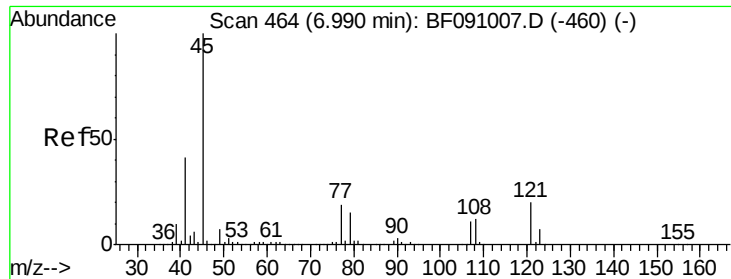
Tot Ion:146 Resp: 225
 Ion Ratio Lower Upper
 146 100
 148 106.1 51.6 77.4#
 111 113.4 37.3 55.9#



#15
 Benzyl Alcohol
 Concen: 2.22 ng
 RT: 6.853 min Scan# 452
 Delta R.T. 0.000 min
 Lab File: BF091016.D
 Acq: 4 Nov 2016 10:20

Tgt Ion: 79 Resp: 23891
 Ion Ratio Lower Upper
 79 100
 108 27.4 55.7 83.5#
 77 95.7 52.6 79.0#

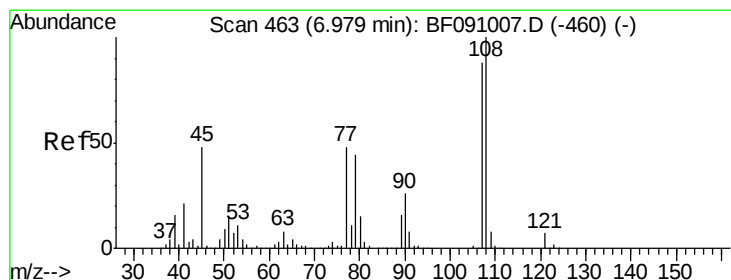
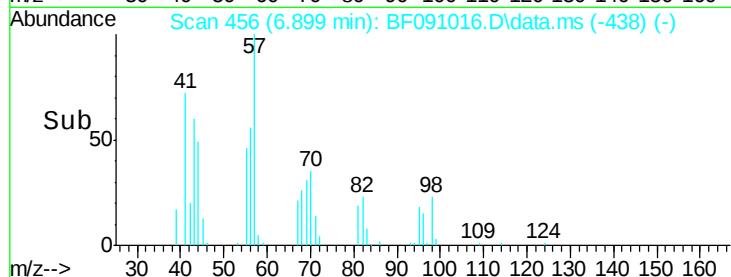
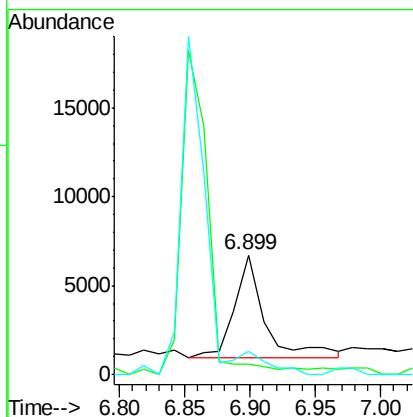
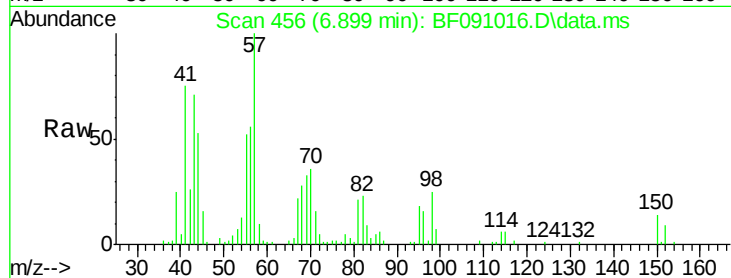




#16
2,2'-oxvbis(1-Chloropropane)
Concen: 0.47 ng
RT: 6.899 min Scan# 45
Delta R.T. -0.091 min
Lab File: BF091016.D
Acq: 4 Nov 2016 10:20

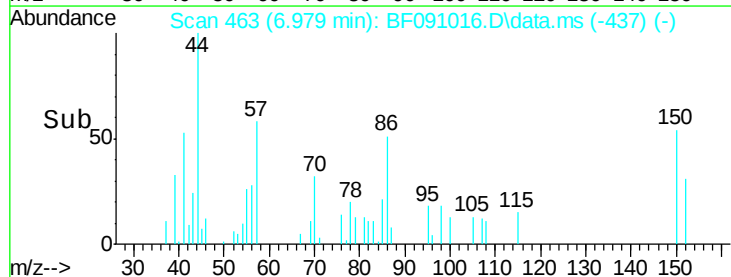
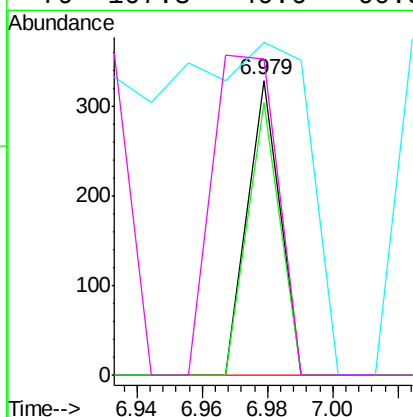
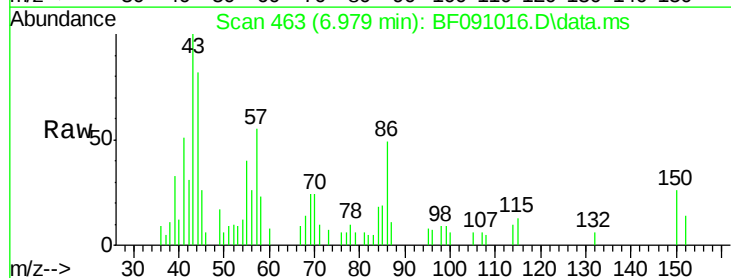
Instrument :
BNA_F
ClientSampleId :

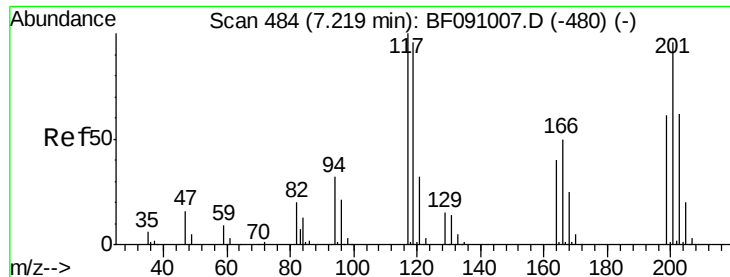
Tot Ion	Ratio	Lower	Upper
45	100		
77	9.2	0.0	39.6
79	19.1	0.0	35.9



#17
2-Methylphenol
Concen: 0.02 ng
RT: 6.979 min Scan# 463
Delta R.T. 0.000 min
Lab File: BF091016.D
Acq: 4 Nov 2016 10:20

Tgt Ion	Ratio	Lower	Upper
107	100		
108	92.7	91.0	136.6
77	112.8	43.8	65.8#
79	107.3	40.6	60.8#





#18

Hexachloroethane

Concen: 0.29 ng

RT: 7.459 min Scan# 50

Delta R.T. 0.240 min

Lab File: BF091016.D

Acq: 4 Nov 2016 10:20

Instrument :

BNA_F

ClientSampleId :

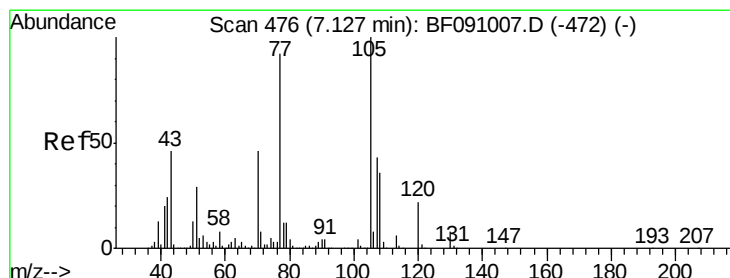
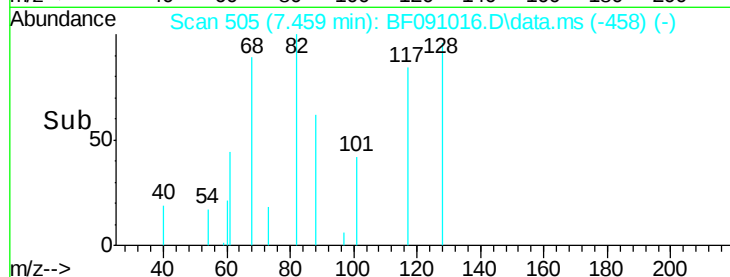
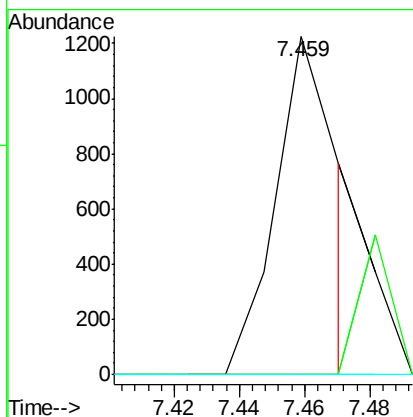
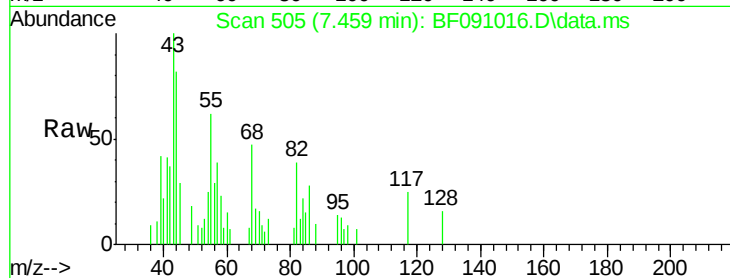
Tot Ion:117 Resp: 1620

Ion Ratio Lower Upper

117 100

119 0.0 76.6 115.0#

201 0.0 77.1 115.7#



#19

n-Nitroso-di-n-propylamine

Concen: 20.40 ng

RT: 7.276 min Scan# 489

Delta R.T. 0.149 min

Lab File: BF091016.D

Acq: 4 Nov 2016 10:20

Tgt Ion: 70 Resp: 216122

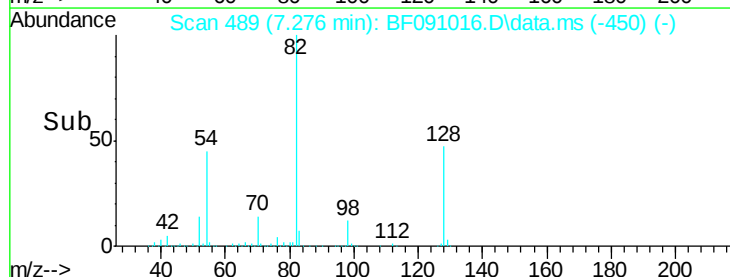
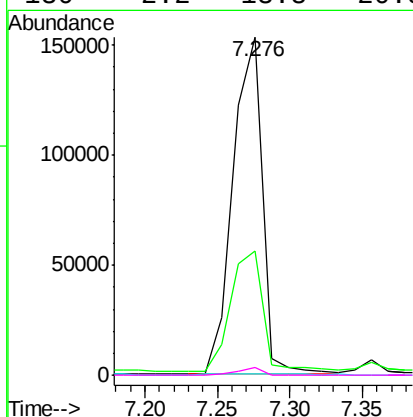
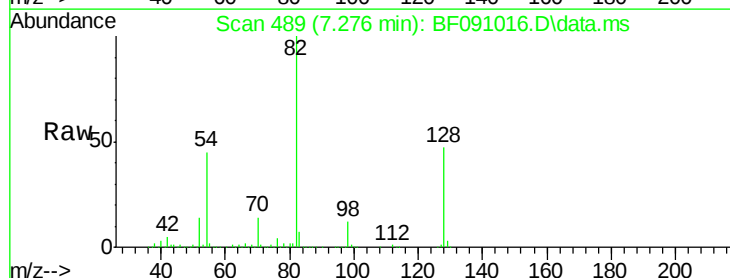
Ion Ratio Lower Upper

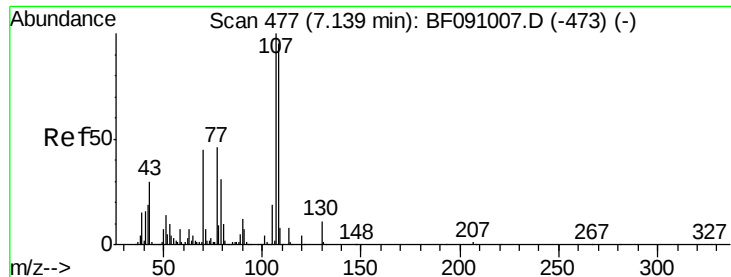
70 100

42 36.9 41.7 62.5#

101 0.3 6.7 10.1#

130 2.2 13.8 20.8#





#20

3+4-Methylphenols

Concen: 0.07 ng

RT: 7.150 min Scan# 47

Delta R.T. 0.011 min

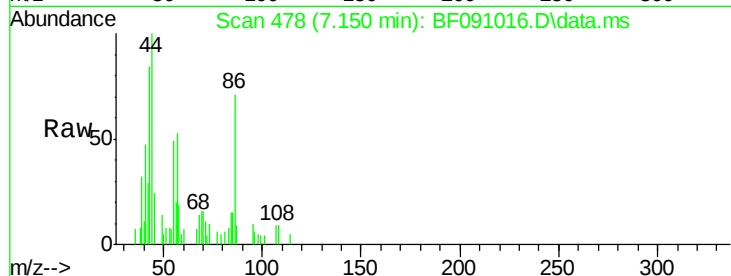
Lab File: BF091016.D

Acq: 4 Nov 2016 10:20

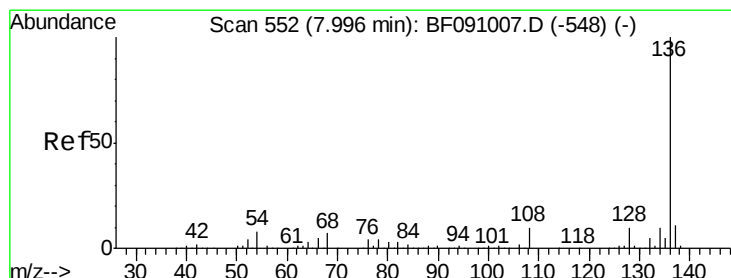
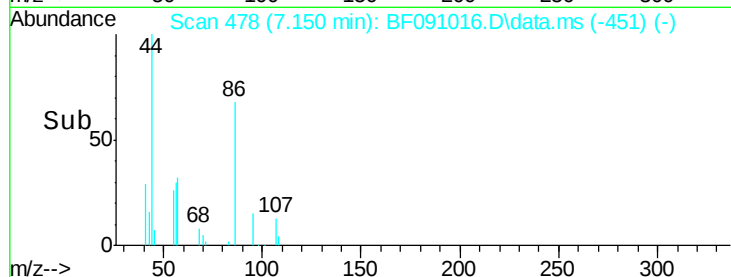
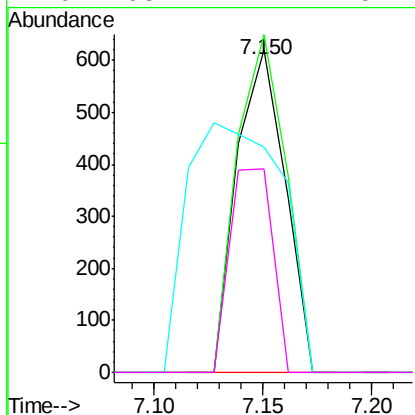
Instrument :

BNA_F

ClientSampleId :



Tot Ion:107	Resp:	957
Ion	Ratio	Lower Upper
107	100	
108	104.7	75.5 115.5
77	69.7	26.4 66.4#
79	63.1	11.1 51.1#



#21

Naphthalene-d8

Concen: 20.00 ng

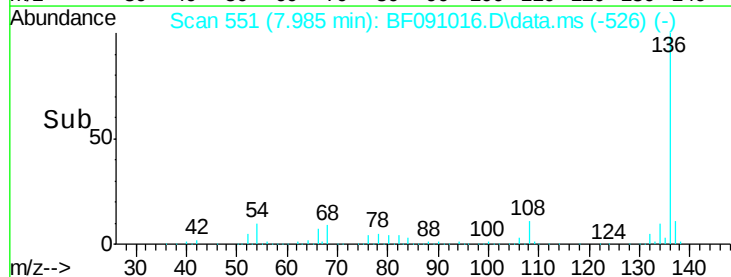
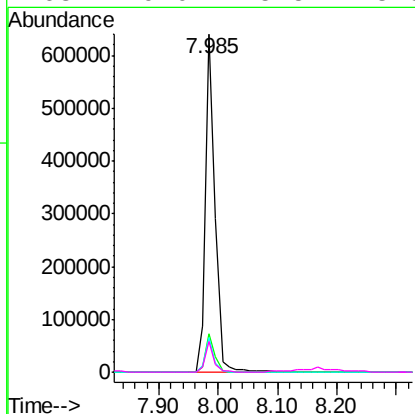
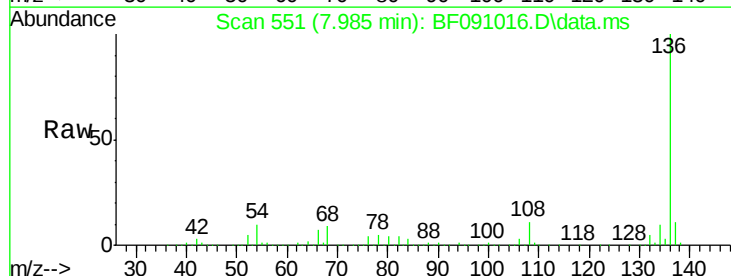
RT: 7.985 min Scan# 551

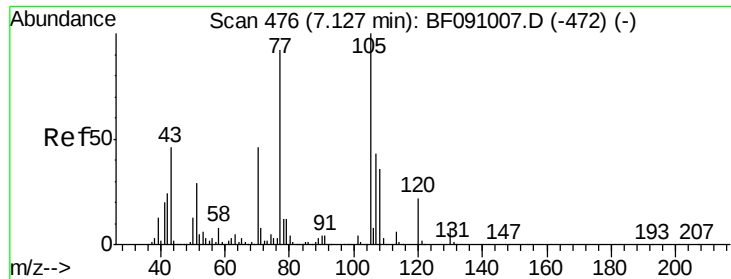
Delta R.T. -0.011 min

Lab File: BF091016.D

Acq: 4 Nov 2016 10:20

Tgt Ion:136	Resp:	737581
Ion	Ratio	Lower Upper
136	100	
137	11.4	8.9 13.3
54	10.3	6.2 9.2#
68	9.0	5.5 8.3#





#22

Acetophenone

Concen: 0.03 ng

RT: 7.127 min Scan# 47

Delta R.T. 0.000 min

Lab File: BF091016.D

Acq: 4 Nov 2016 10:20

Instrument :

BNA_F

ClientSampleId :

Tot Ion:105 Resp: 485

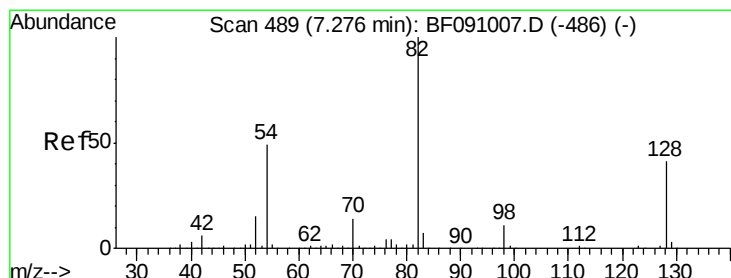
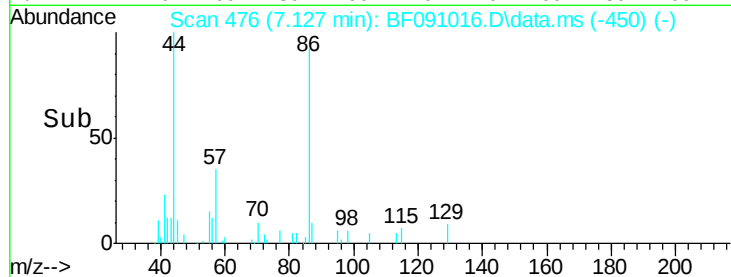
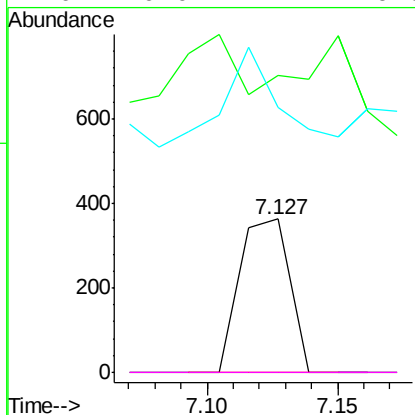
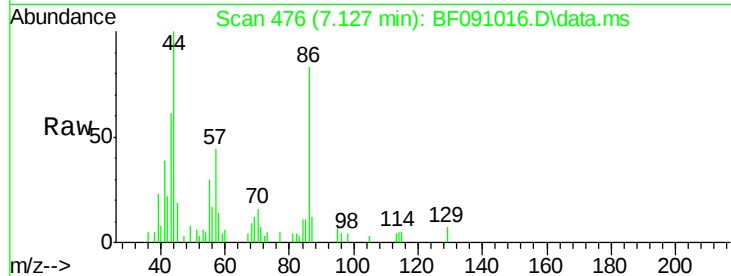
Ion Ratio Lower Upper

105 100

71 193.9 6.2 9.2#

51 172.7 23.3 34.9#

120 0.0 17.4 26.0#



#23

Nitrobenzene-d5

Concen: 115.36 ng

RT: 7.276 min Scan# 489

Delta R.T. 0.000 min

Lab File: BF091016.D

Acq: 4 Nov 2016 10:20

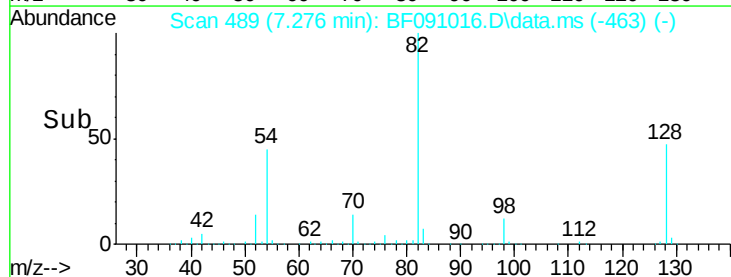
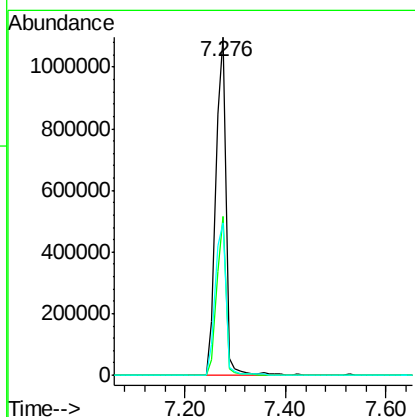
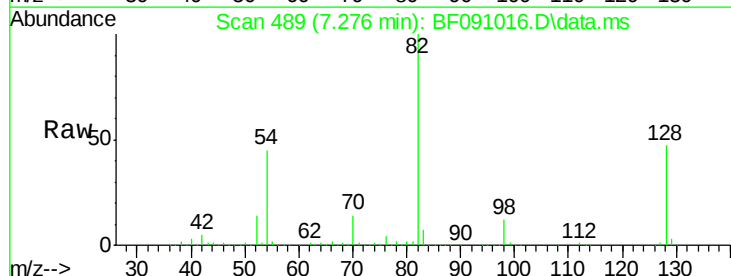
Tgt Ion: 82 Resp: 1559748

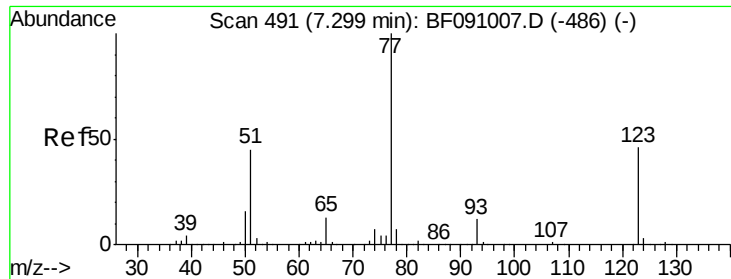
Ion Ratio Lower Upper

82 100

128 46.8 32.4 48.6

54 45.0 39.2 58.8





#24

Nitrobenzene

Concen: 0.39 ng

RT: 7.276 min Scan# 48

Delta R.T. -0.023 min

Lab File: BF091016.D

Acq: 4 Nov 2016 10:20

Instrument :

BNA_F

ClientSampleId :

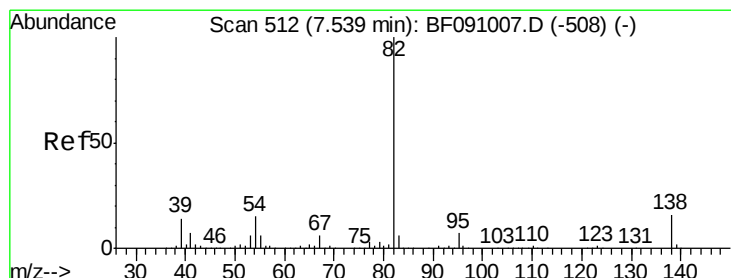
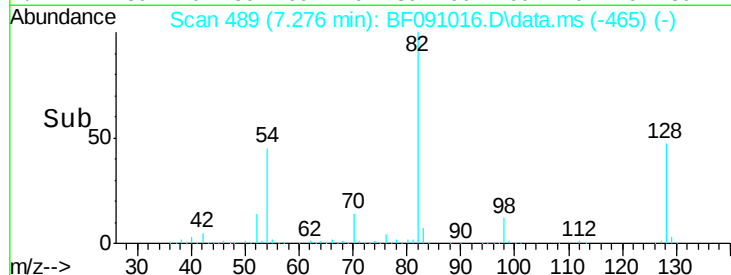
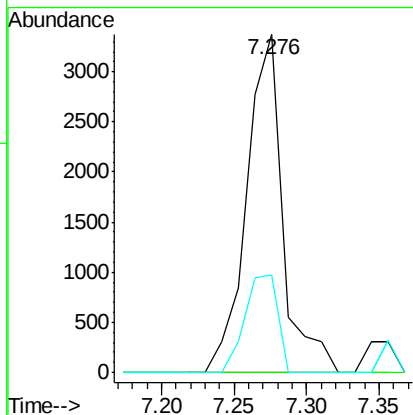
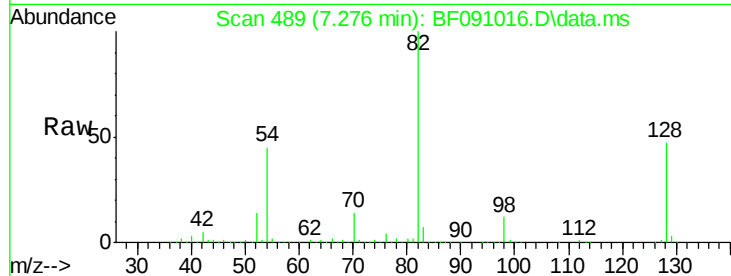
Tot Ion: 77 Resp: 5830

Ion Ratio Lower Upper

77 100

123 0.0 36.5 54.7#

65 28.6 10.7 16.1#



#25

Isophorone

Concen: 54.51 ng

RT: 7.276 min Scan# 489

Delta R.T. -0.263 min

Lab File: BF091016.D

Acq: 4 Nov 2016 10:20

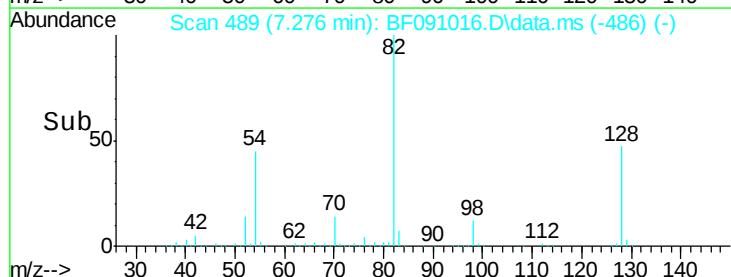
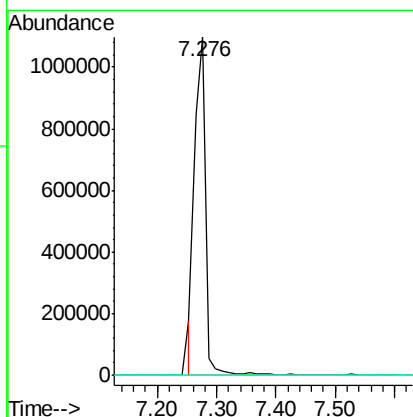
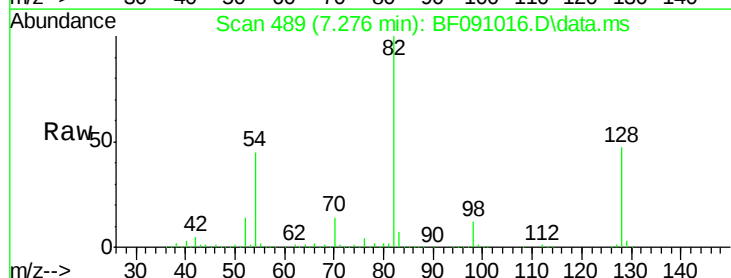
Tgt Ion: 82 Resp: 1420311

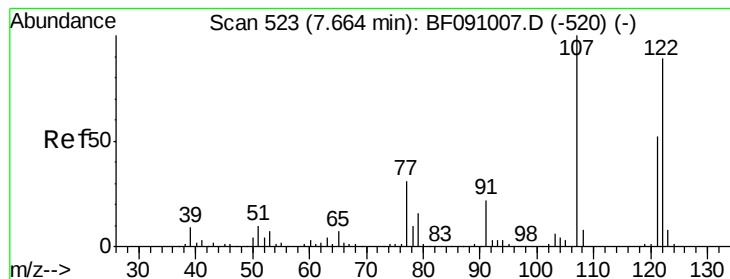
Ion Ratio Lower Upper

82 100

95 0.1 5.4 8.0#

138 0.0 13.0 19.4#





#27

2,4-Dimethylphenol

Concen: 0.02 ng

RT: 7.676 min Scan# 52

Delta R.T. 0.011 min

Lab File: BF091016.D

Acq: 4 Nov 2016 10:20

Instrument :

BNA_F

ClientSampleId :

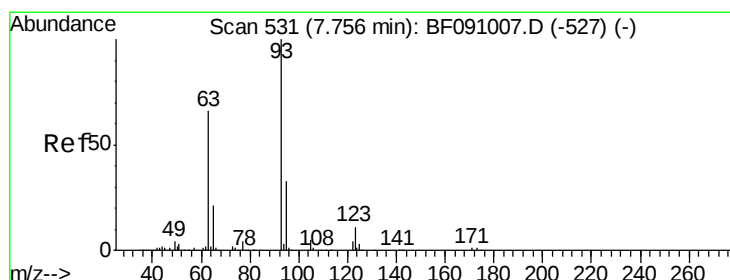
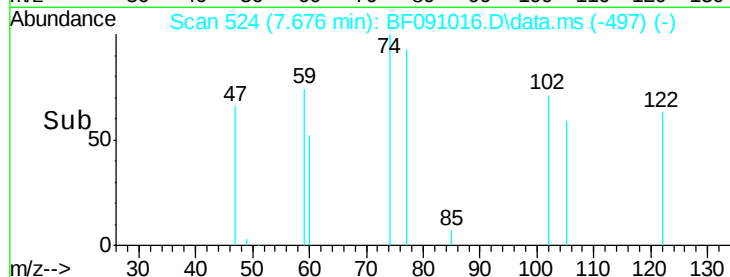
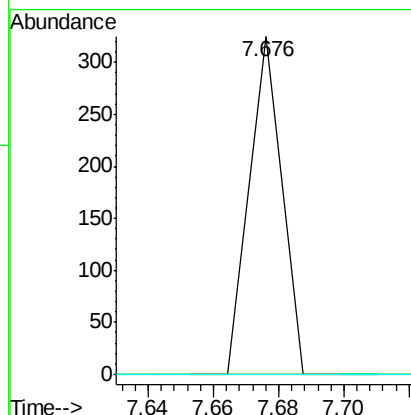
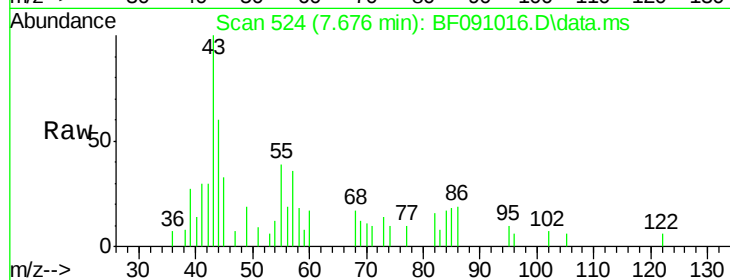
Tot Ion:122 Resp: 223

Ion Ratio Lower Upper

122 100

107 0.0 89.6 134.4#

121 0.0 46.3 69.5#



#28

bis(2-Chloroethoxy)methane

Concen: 0.02 ng

RT: 7.482 min Scan# 507

Delta R.T. -0.274 min

Lab File: BF091016.D

Acq: 4 Nov 2016 10:20

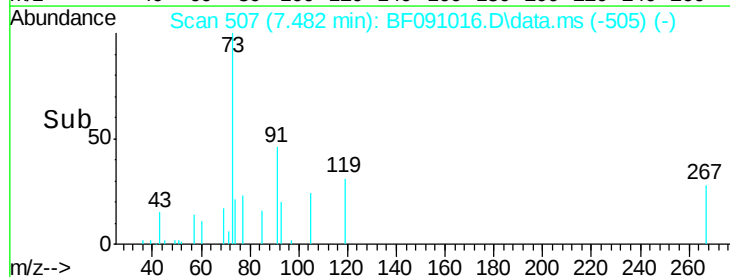
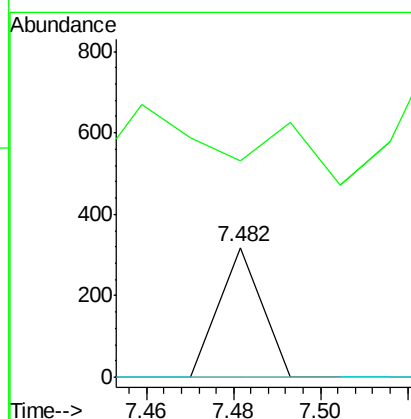
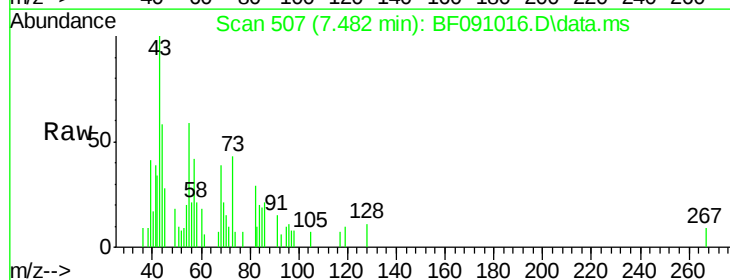
Tgt Ion: 93 Resp: 218

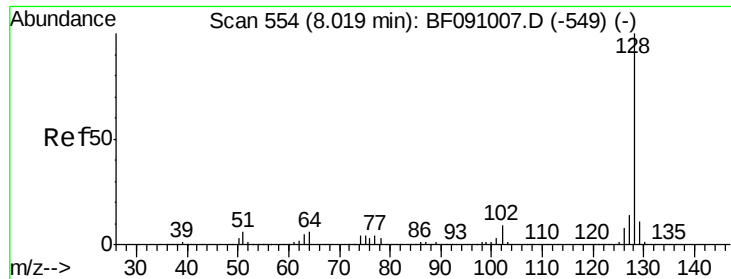
Ion Ratio Lower Upper

93 100

95 167.0 26.3 39.5#

123 0.0 8.7 13.1#





#31

Naphthalene

Concen: 0.54 ng

RT: 8.007 min Scan# 55

Delta R.T. -0.011 min

Lab File: BF091016.D

Acq: 4 Nov 2016 10:20

Instrument :

BNA_F

ClientSampleId :

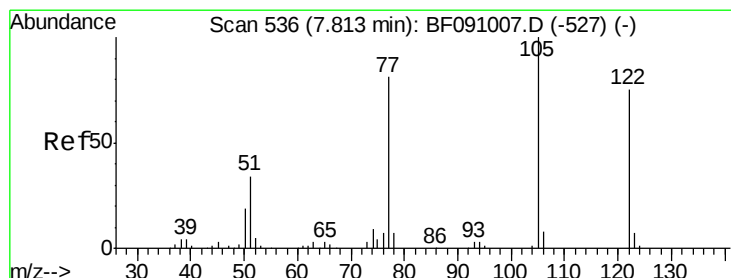
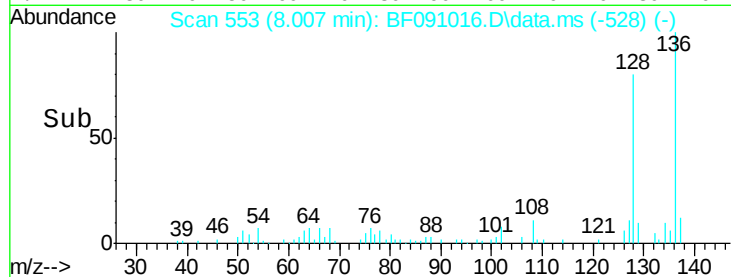
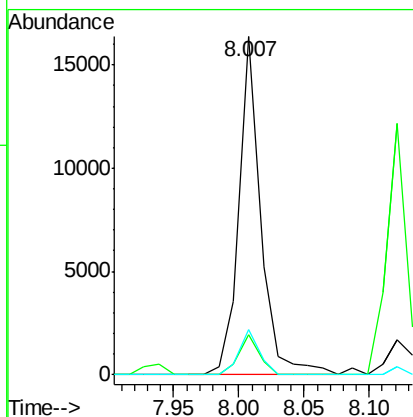
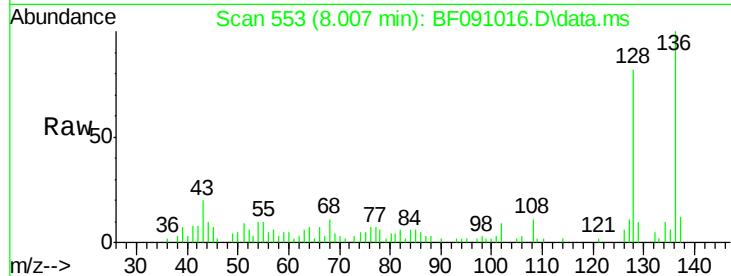
Tot Ion:128 Resp: 18938

Ion Ratio Lower Upper

128 100

129 11.8 9.0 13.6

127 13.2 10.9 16.3



#32

Benzoic acid

Concen: 5.24 ng

RT: 7.767 min Scan# 532

Delta R.T. -0.046 min

Lab File: BF091016.D

Acq: 4 Nov 2016 10:20

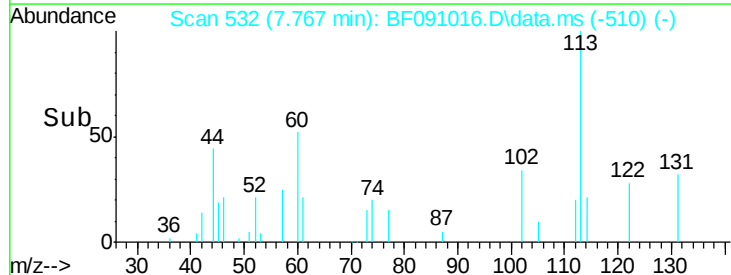
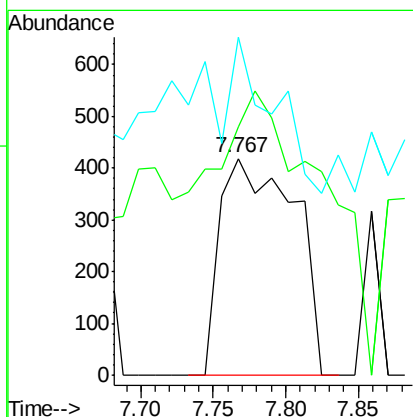
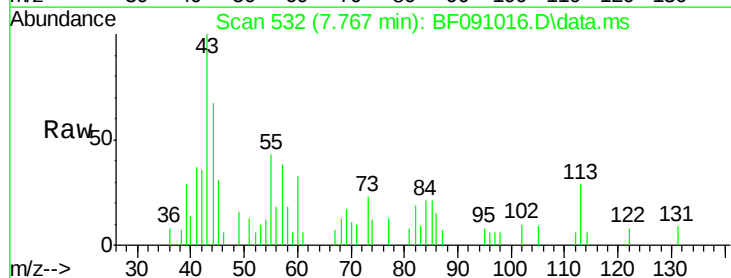
Tgt Ion:122 Resp: 1487

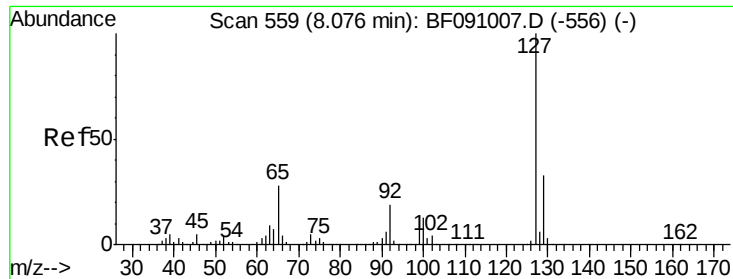
Ion Ratio Lower Upper

122 100

105 115.1 105.9 145.9

77 156.2 84.0 124.0#

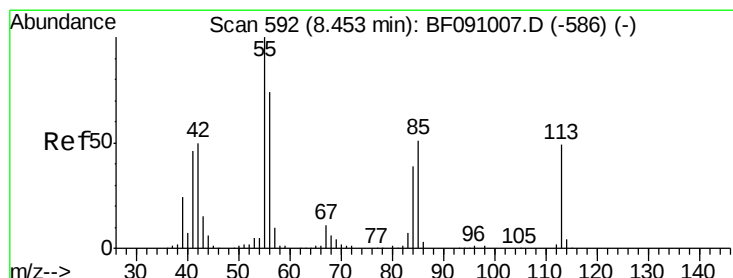
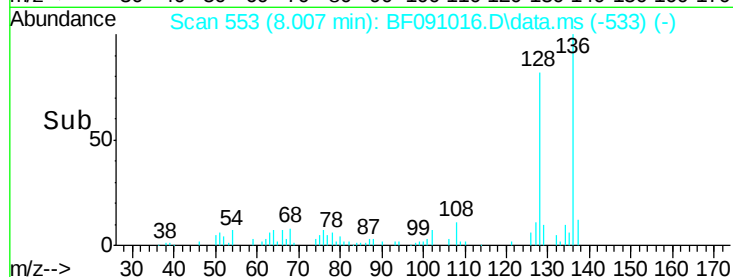
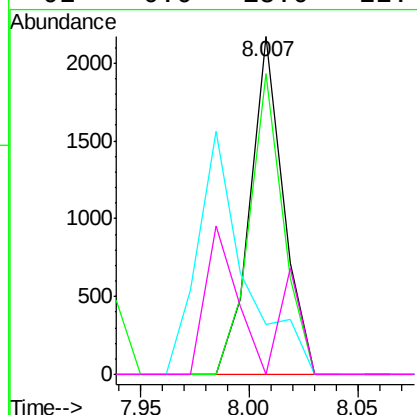
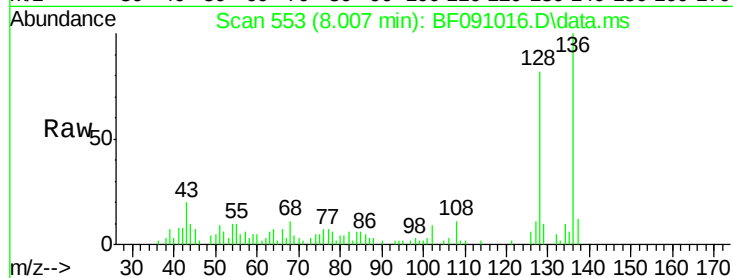




#33
4-Chloroaniline
Concen: 0.16 ng
RT: 8.007 min Scan# 55
Delta R.T. -0.069 min
Lab File: BF091016.D
Acq: 4 Nov 2016 10:20

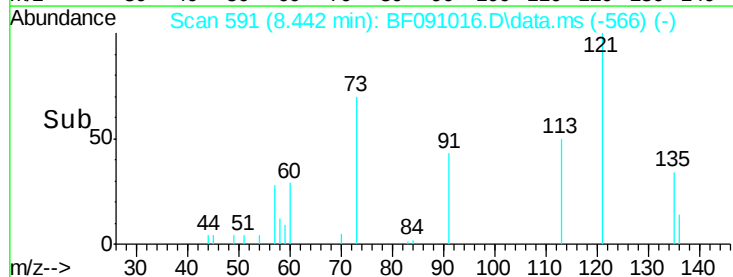
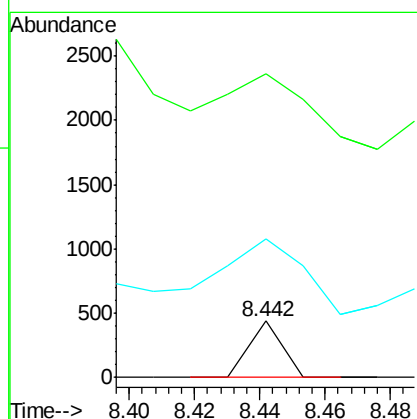
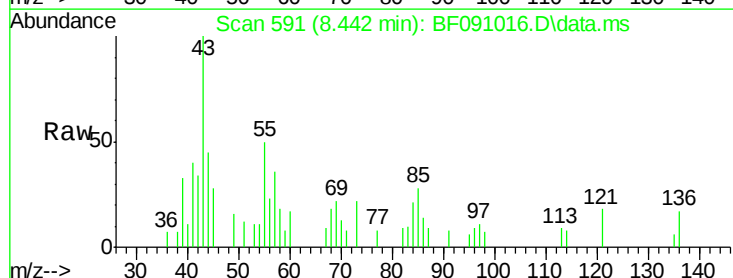
Instrument :
BNA_F
ClientSampleId :

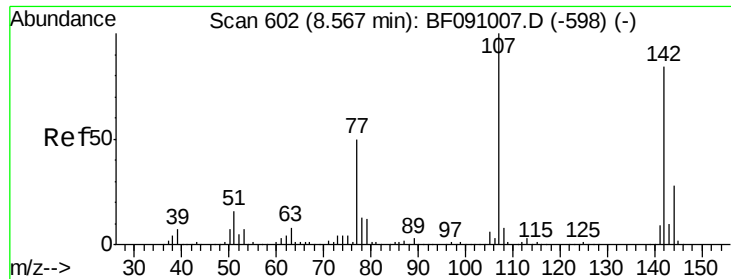
Tot Ion:127	Resp:	2311
Ion Ratio	Lower	Upper
127	100	
129	88.8	26.6 39.8#
65	14.7	22.2 33.2#
92	0.0	15.0 22.4#



#35
Caprolactam
Concen: 0.10 ng
RT: 8.442 min Scan# 591
Delta R.T. -0.011 min
Lab File: BF091016.D
Acq: 4 Nov 2016 10:20

Tgt Ion:113	Resp:	300
Ion Ratio	Lower	Upper
113	100	
55	539.7	184.1 224.1#
56	245.7	132.0 172.0#

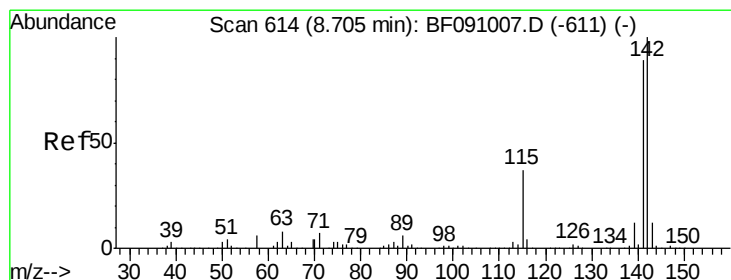
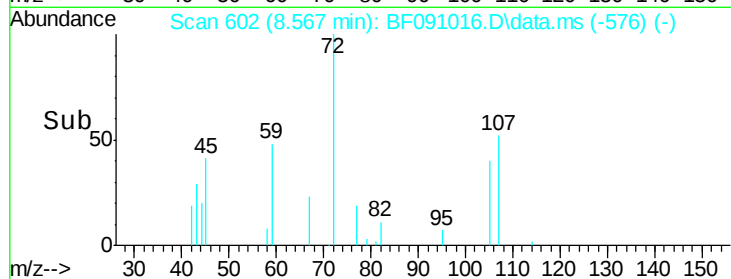
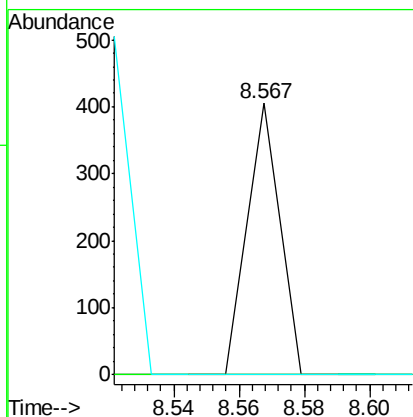
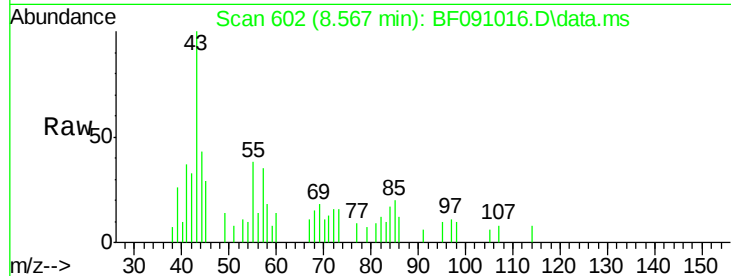




#36
4-Chloro-3-methylphenol
Concen: 0.03 ng
RT: 8.567 min Scan# 602
Delta R.T. 0.000 min
Lab File: BF091016.D
Acq: 4 Nov 2016 10:20

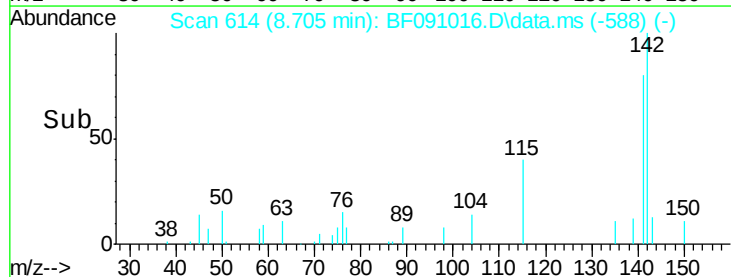
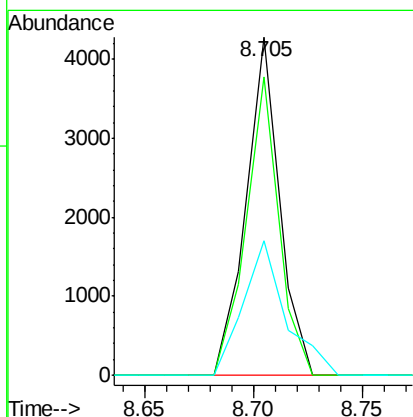
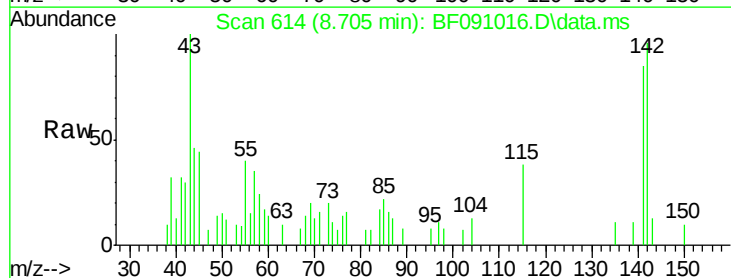
Instrument :
BNA_F
ClientSampleId :

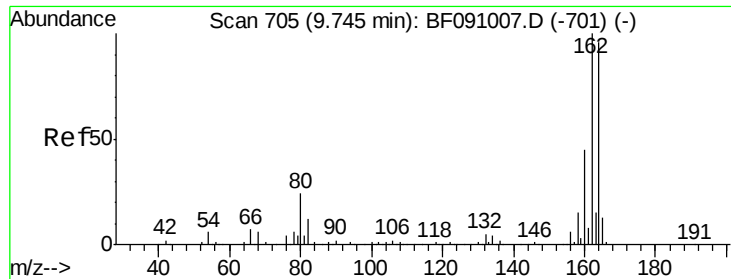
Tot Ion	Ratio	Lower	Upper
107	100		
144	0.0	22.5	33.7#
142	0.0	67.4	101.2#



#37
2-Methylnaphthalene
Concen: 0.20 ng
RT: 8.705 min Scan# 614
Delta R.T. 0.000 min
Lab File: BF091016.D
Acq: 4 Nov 2016 10:20

Tgt Ion	Ratio	Lower	Upper
142	100		
141	88.2	71.3	106.9
115	39.7	29.9	44.9

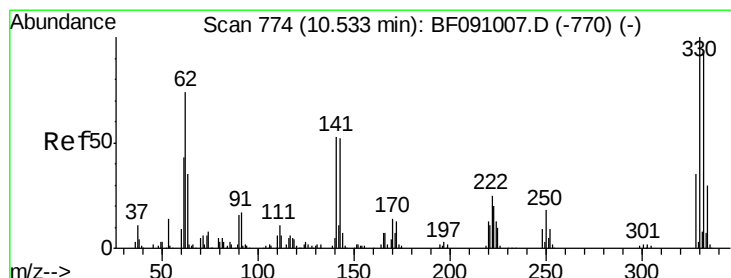
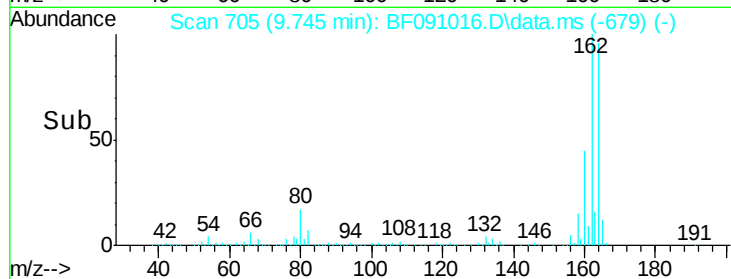
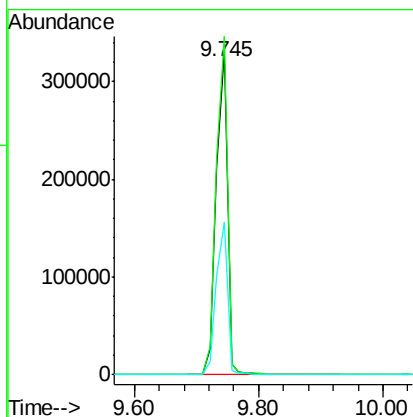
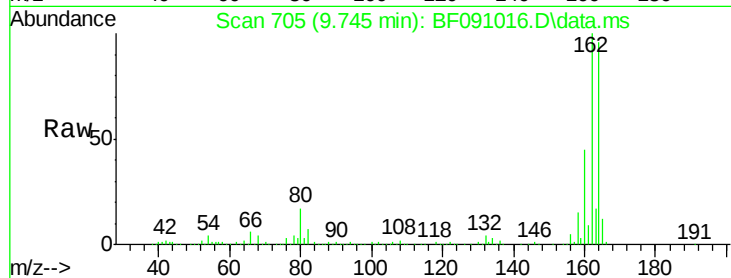




#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.745 min Scan# 705
 Delta R.T. 0.000 min
 Lab File: BF091016.D
 Acq: 4 Nov 2016 10:20

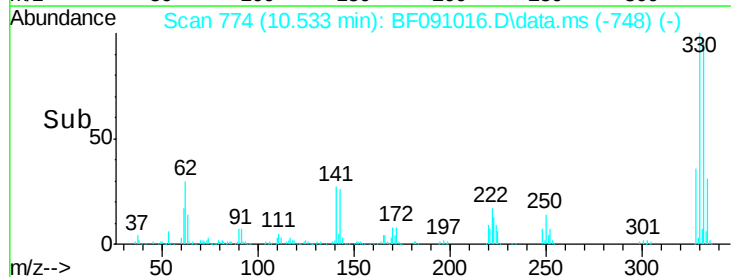
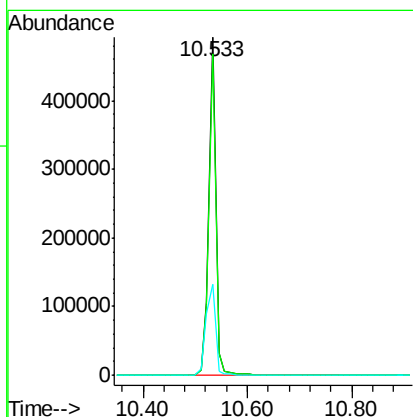
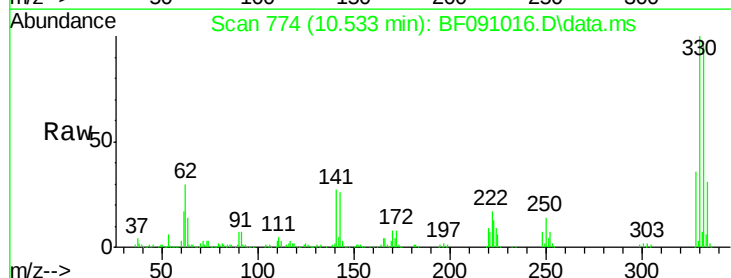
Instrument :
 BNA_F
 ClientSampleId :

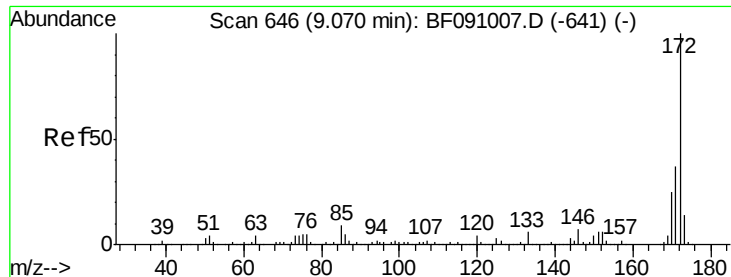
Tot Ion	Ratio	Lower	Upper
164	100		
162	104.6	83.6	125.4
160	47.2	37.9	56.9



#41
 2,4,6-Tribromophenol
 Concen: 123.10 ng
 RT: 10.533 min Scan# 774
 Delta R.T. 0.000 min
 Lab File: BF091016.D
 Acq: 4 Nov 2016 10:20

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.6	75.9	113.9
141	37.5	36.1	54.1

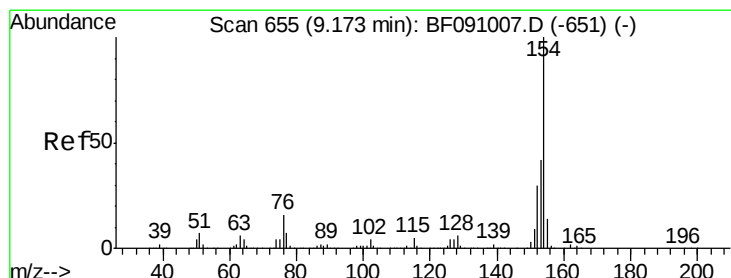
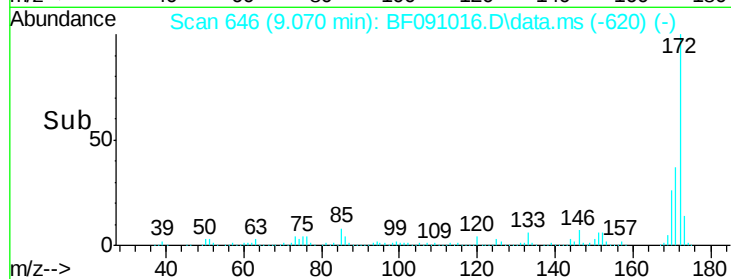
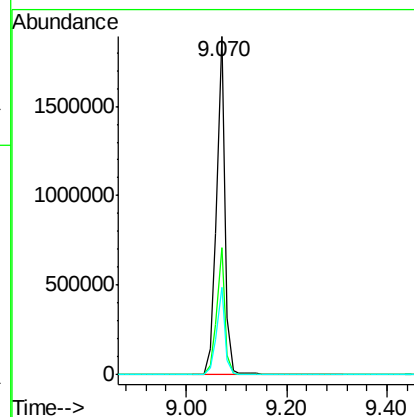
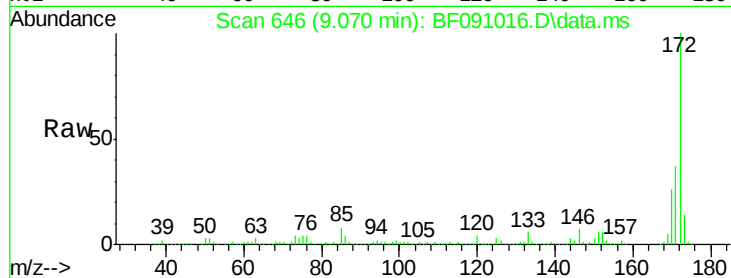




#44
 2-Fluorobiphenyl
 Concen: 93.25 ng
 RT: 9.070 min Scan# 64
 Delta R.T. 0.000 min
 Lab File: BF091016.D
 Acq: 4 Nov 2016 10:20

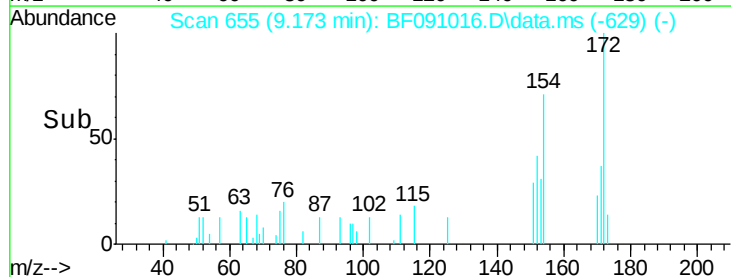
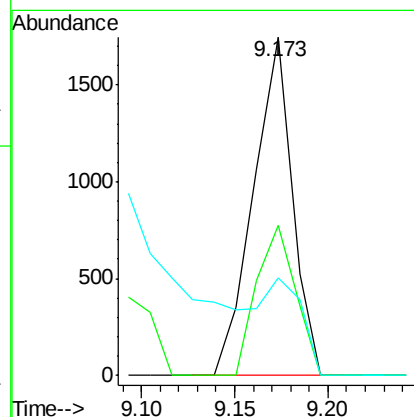
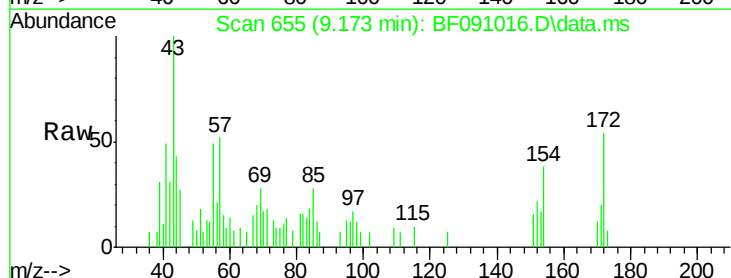
Instrument :
 BNA_F
 ClientSampleId :

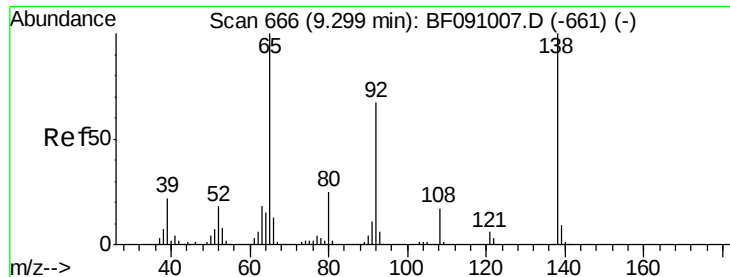
Tot Ion:172 Resp: 2202799
 Ion Ratio Lower Upper
 172 100
 171 37.4 29.8 44.6
 170 25.9 20.3 30.5



#45
 1,1'-Biphenyl
 Concen: 0.09 ng
 RT: 9.173 min Scan# 655
 Delta R.T. 0.000 min
 Lab File: BF091016.D
 Acq: 4 Nov 2016 10:20

Tgt Ion:154 Resp: 2525
 Ion Ratio Lower Upper
 154 100
 153 44.4 21.6 61.6
 76 28.7 0.0 36.2





#47

2-Nitroaniline

Concen: 0.21 ng

RT: 9.230 min Scan# 666

Delta R.T. -0.069 min

Lab File: BF091016.D

Acq: 4 Nov 2016 10:20

Instrument :

BNA_F

ClientSampleId :

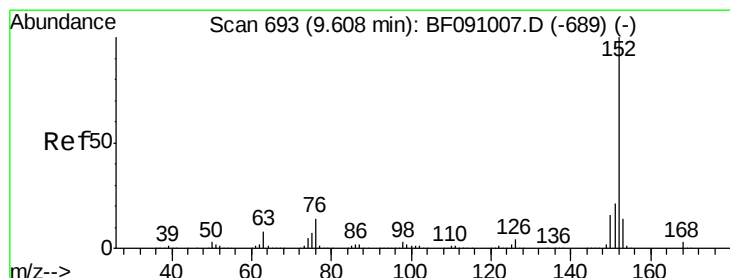
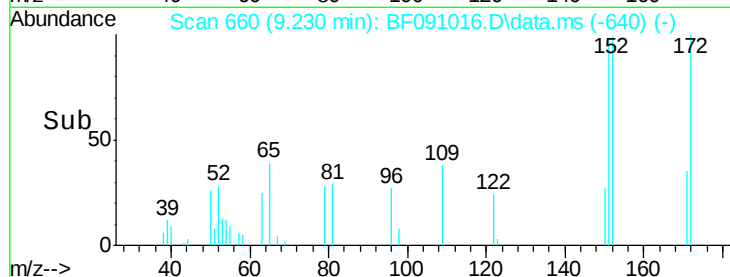
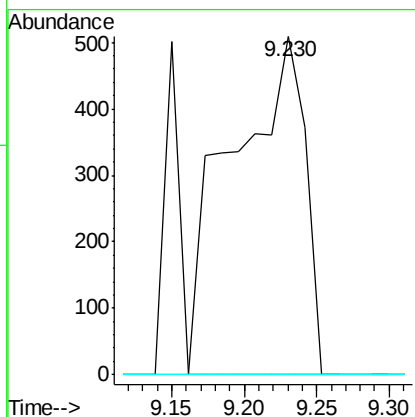
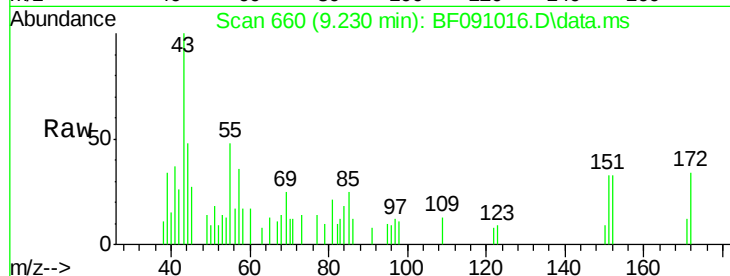
Tot Ion: 65 Resp: 1784

Ion Ratio Lower Upper

65 100

92 0.0 53.9 80.9#

138 0.0 80.1 120.1#



#48

Acenaphthylene

Concen: 0.04 ng

RT: 9.596 min Scan# 692

Delta R.T. -0.011 min

Lab File: BF091016.D

Acq: 4 Nov 2016 10:20

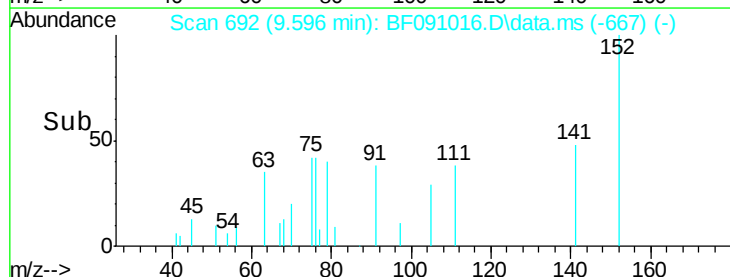
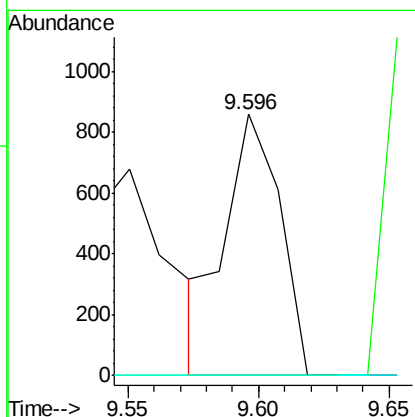
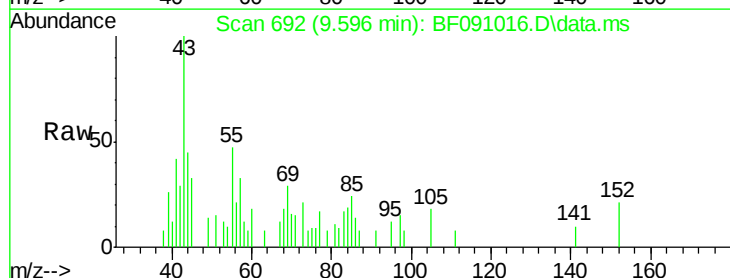
Tgt Ion: 152 Resp: 1241

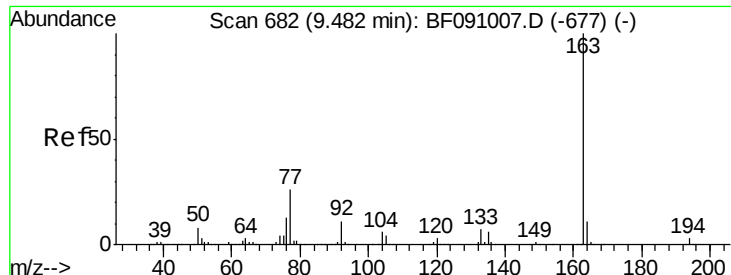
Ion Ratio Lower Upper

152 100

151 0.0 16.7 25.1#

153 0.0 11.1 16.7#





#49

Dimethylphthalate

Concen: 0.43 ng

RT: 9.470 min Scan# 681

Delta R.T. -0.011 min

Lab File: BF091016.D

Acq: 4 Nov 2016 10:20

Instrument :

BNA_F

ClientSampleId :

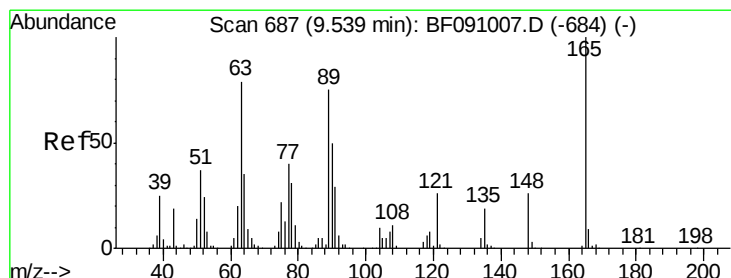
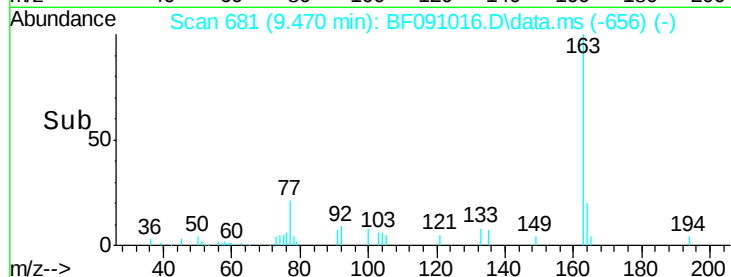
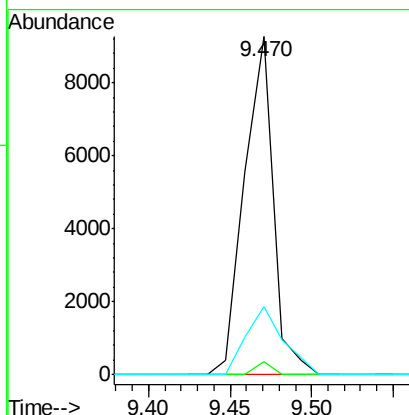
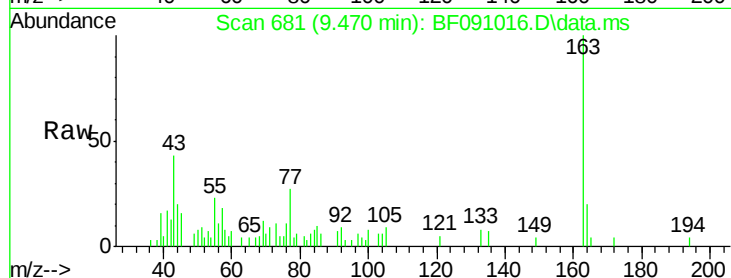
Tot Ion:163 Resp: 11348

Ion Ratio Lower Upper

163 100

194 3.7 2.6 4.0

164 20.1 8.7 13.1#



#50

2,6-Dinitrotoluene

Concen: 9.28 ng

RT: 9.745 min Scan# 705

Delta R.T. 0.206 min

Lab File: BF091016.D

Acq: 4 Nov 2016 10:20

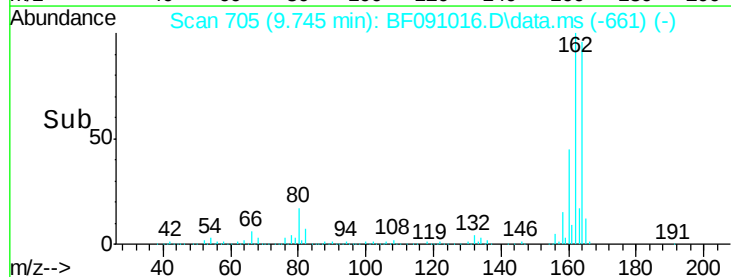
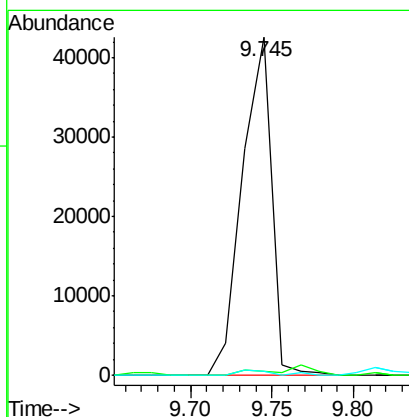
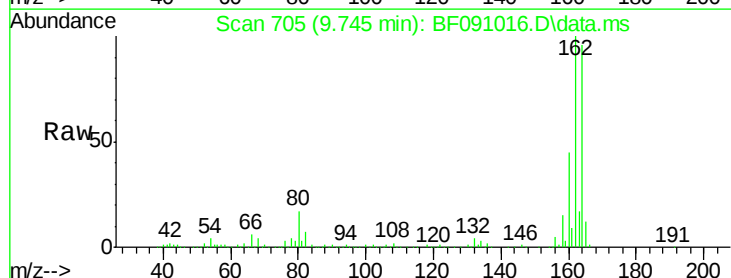
Tgt Ion:165 Resp: 53027

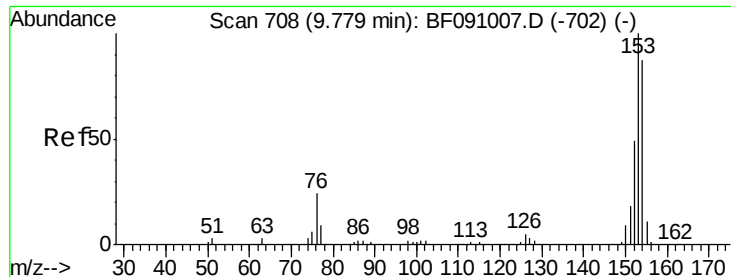
Ion Ratio Lower Upper

165 100

63 1.1 65.6 98.4#

89 1.3 59.8 89.6#





#51

Acenaphthene

Concen: 0.54 ng

RT: 9.768 min Scan# 70

Delta R.T. -0.011 min

Lab File: BF091016.D

Acq: 4 Nov 2016 10:20

Instrument :

BNA_F

ClientSampleId :

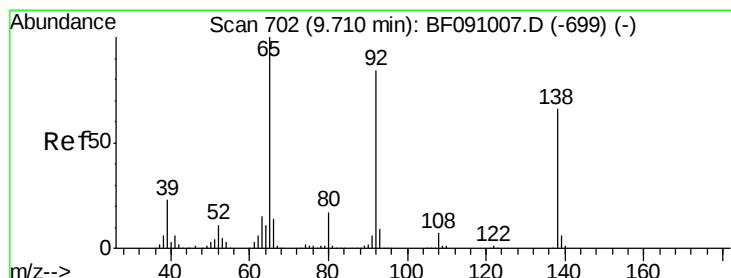
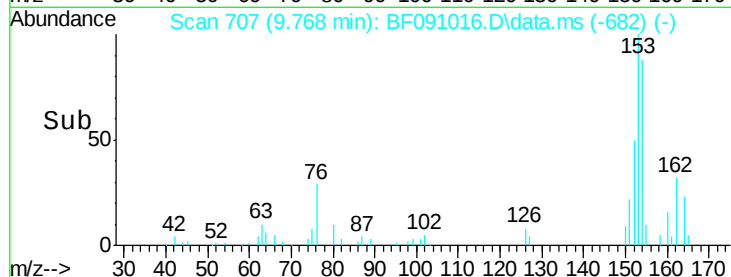
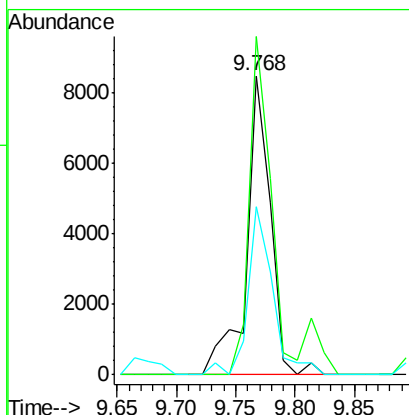
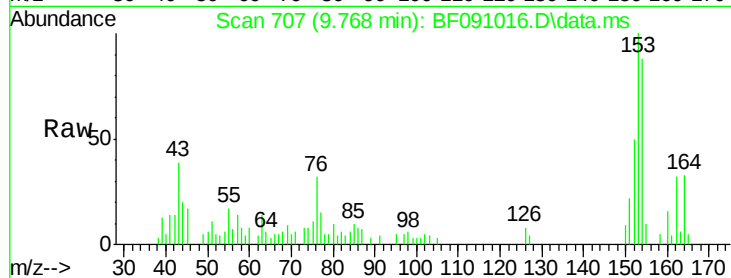
Tot Ion:154 Resp: 11863

Ion Ratio Lower Upper

154 100

153 113.3 91.6 137.4

152 56.2 44.6 67.0



#52

3-Nitroaniline

Concen: 0.03 ng

RT: 9.505 min Scan# 684

Delta R.T. -0.206 min

Lab File: BF091016.D

Acq: 4 Nov 2016 10:20

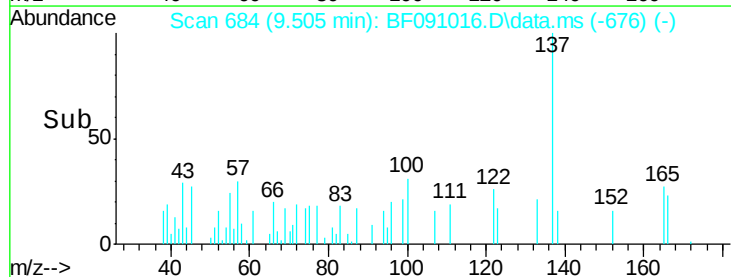
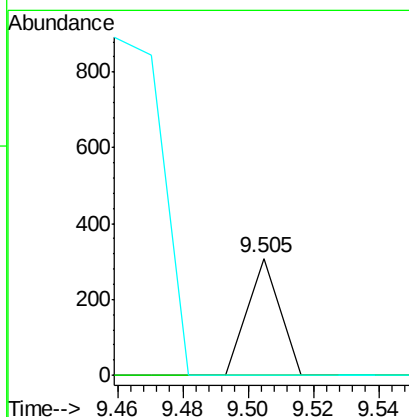
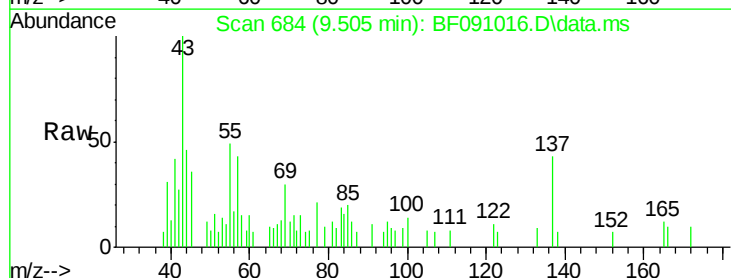
Tgt Ion:138 Resp: 212

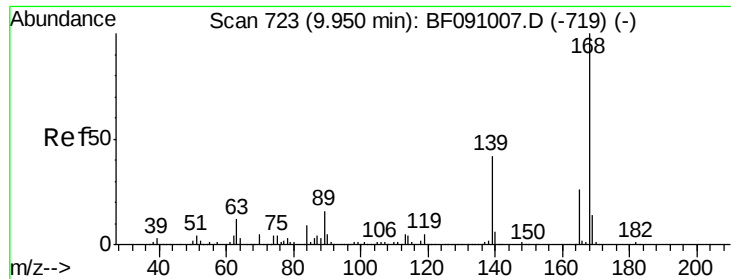
Ion Ratio Lower Upper

138 100

108 0.0 8.4 12.6#

92 0.0 101.1 151.7#





#54

Dibenzenofuran

Concen: 0.57 ng

RT: 9.950 min Scan# 723

Delta R.T. 0.000 min

Lab File: BF091016.D

Acq: 4 Nov 2016 10:20

Instrument :

BNA_F

ClientSampleId :

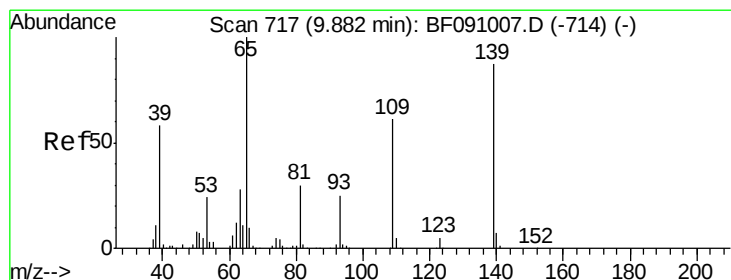
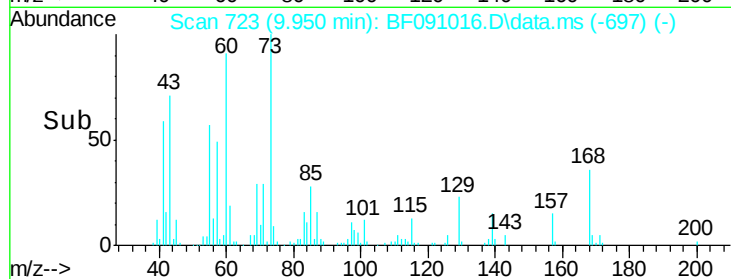
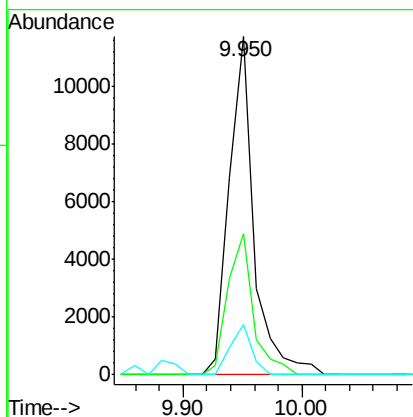
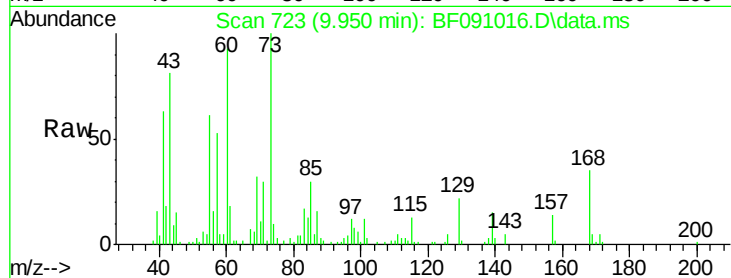
Tot Ion:168 Resp: 16908

Ion Ratio Lower Upper

168 100

139 41.7 34.8 52.2

169 14.7 11.4 17.2



#55

4-Nitrophenol

Concen: 7.23 ng

RT: 9.950 min Scan# 723

Delta R.T. 0.069 min

Lab File: BF091016.D

Acq: 4 Nov 2016 10:20

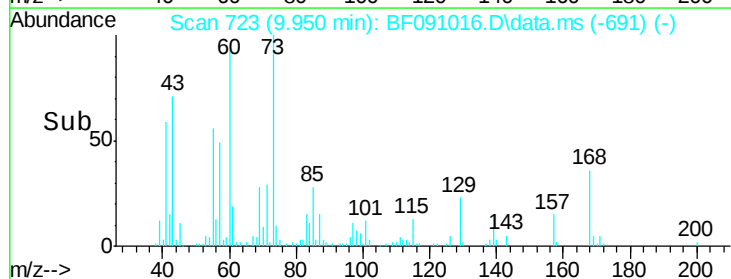
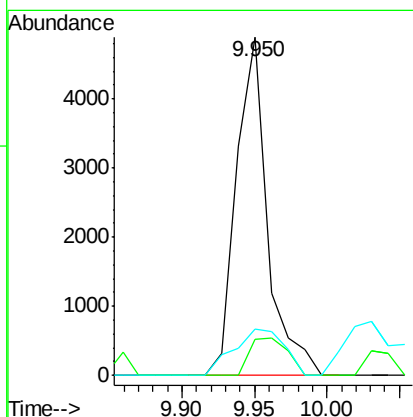
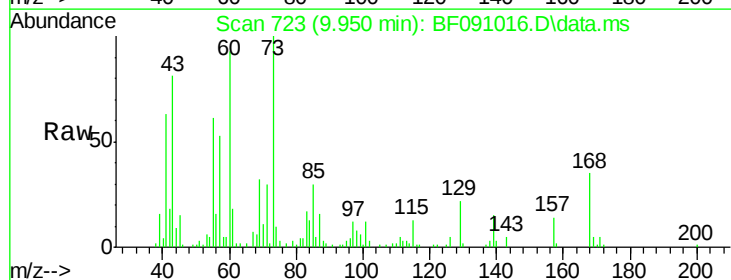
Tgt Ion:139 Resp: 7293

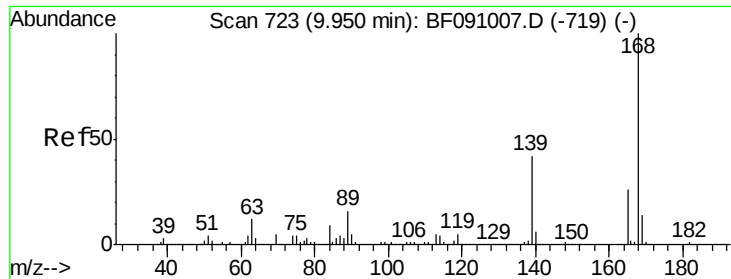
Ion Ratio Lower Upper

139 100

109 10.5 50.5 90.5#

65 13.5 97.1 137.1#

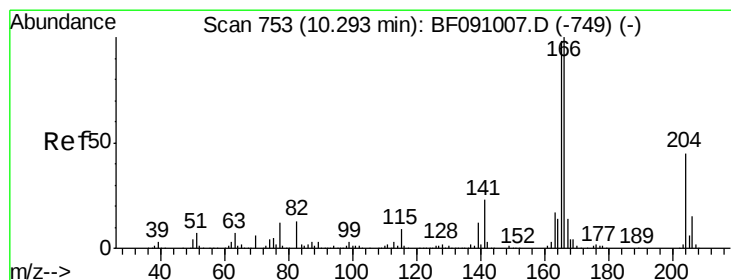
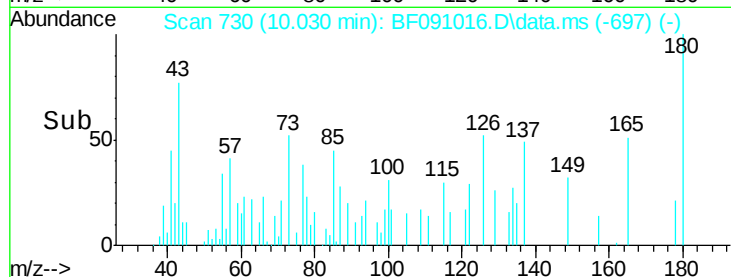
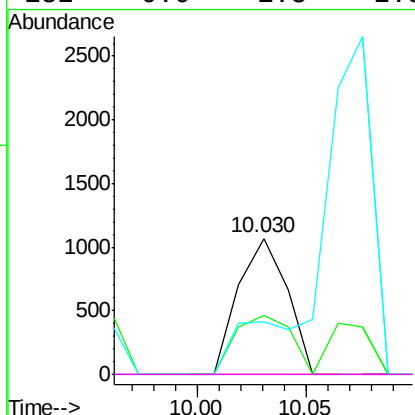
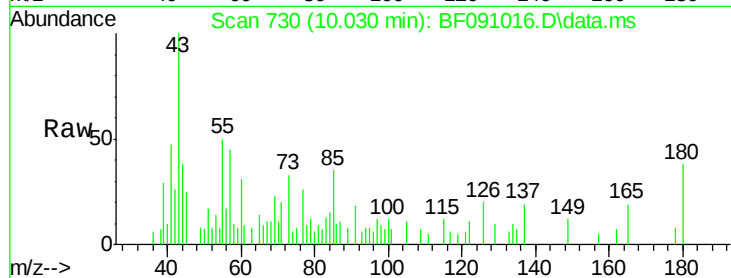




#56
2,4-Dinitrotoluene
Concen: 0.23 ng
RT: 10.030 min Scan# 73
Delta R.T. 0.080 min
Lab File: BF091016.D
Acq: 4 Nov 2016 10:20

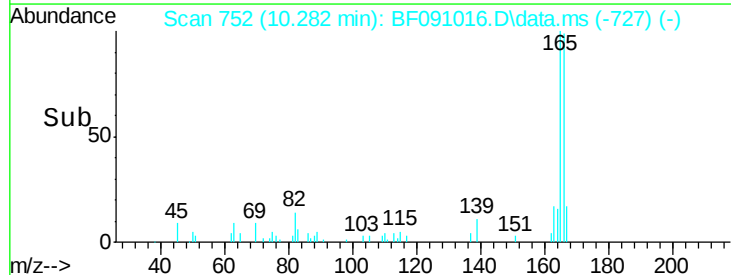
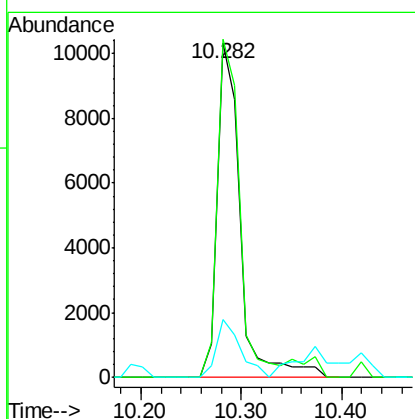
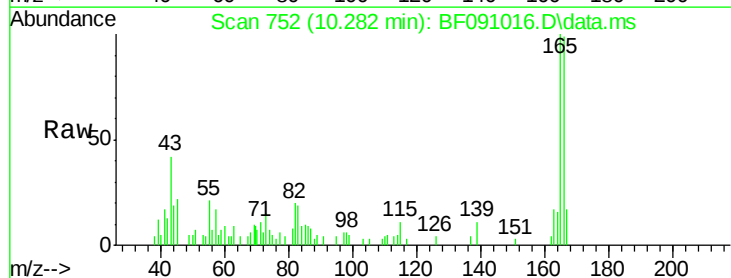
Instrument :
BNA_F
ClientSampleId :

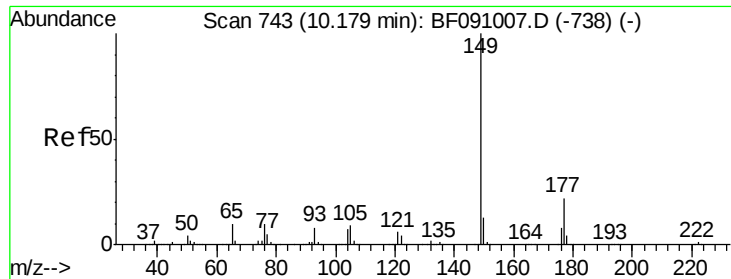
Tot Ion:165 Resp: 1668
Ion Ratio Lower Upper
165 100
63 43.4 38.7 58.1
89 38.6 50.6 76.0#
182 0.0 1.8 2.8#



#57
Fluorene
Concen: 0.67 ng
RT: 10.282 min Scan# 752
Delta R.T. -0.011 min
Lab File: BF091016.D
Acq: 4 Nov 2016 10:20

Tgt Ion:166 Resp: 16214
Ion Ratio Lower Upper
166 100
165 101.2 78.6 118.0
167 17.4 11.1 16.7#

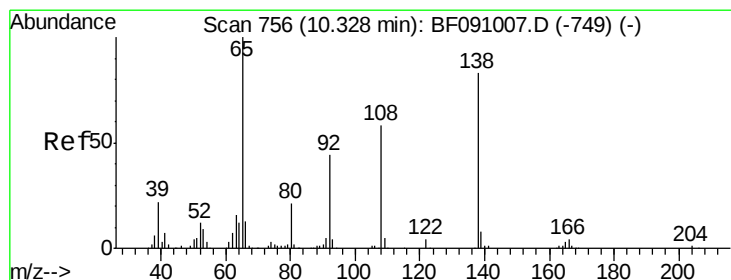
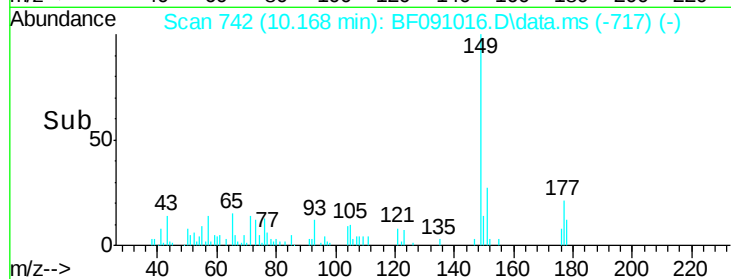
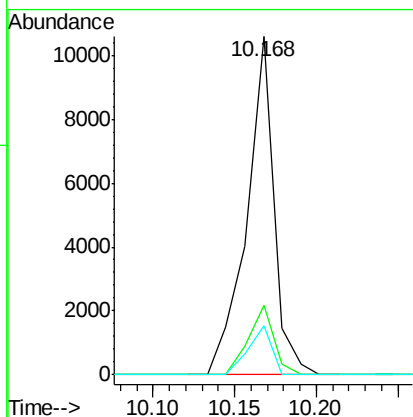
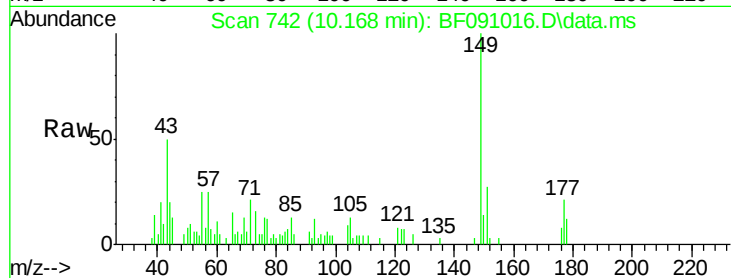




#59
Diethylphthalate
Concen: 0.45 ng
RT: 10.168 min Scan# 74
Delta R.T. -0.011 min
Lab File: BF091016.D
Acq: 4 Nov 2016 10:20

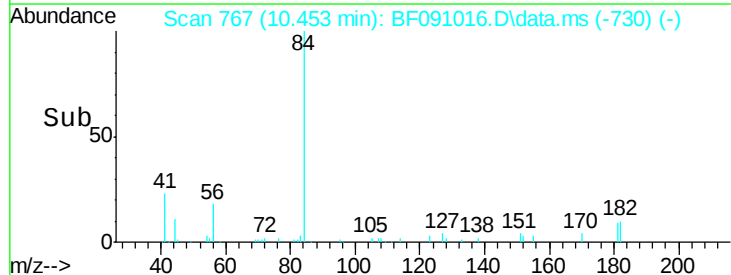
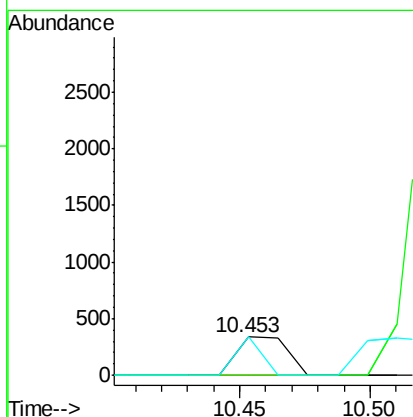
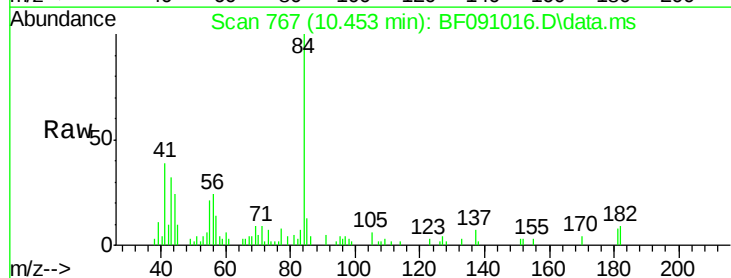
Instrument :
BNA_F
ClientSampleId :

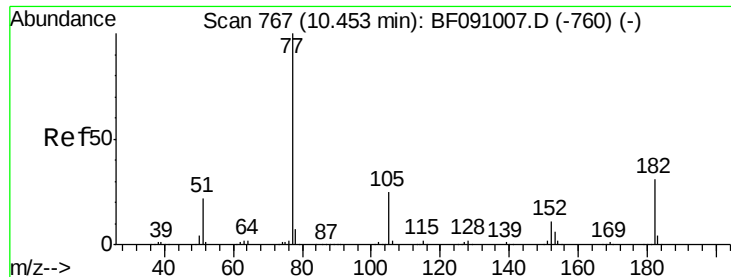
Tot Ion	Ratio	Lower	Upper
149	100		
177	20.7	17.3	25.9
150	14.3	10.3	15.5



#61
4-Nitroaniline
Concen: 0.07 ng
RT: 10.453 min Scan# 767
Delta R.T. 0.126 min
Lab File: BF091016.D
Acq: 4 Nov 2016 10:20

Tgt Ion	Ratio	Lower	Upper
138	100		
92	0.0	32.5	72.5#
108	100.6	49.4	89.4#





#62

Azobenzene

Concen: 0.06 ng

RT: 10.442 min Scan# 76

Delta R.T. -0.011 min

Lab File: BF091016.D

Acq: 4 Nov 2016 10:20

Instrument :

BNA_F

ClientSampleId :

Tot Ion: 77 Resp: 1867

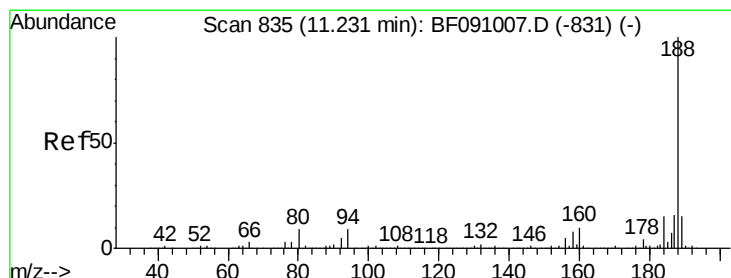
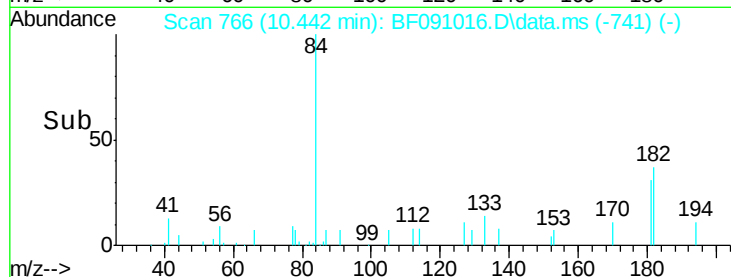
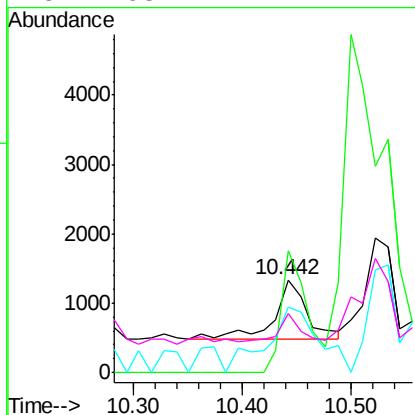
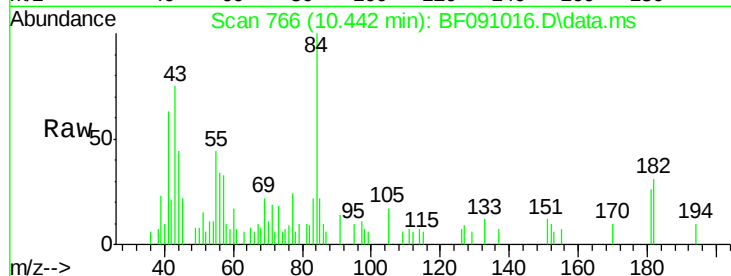
Ion Ratio Lower Upper

77 100

182 130.5 11.0 51.0#

105 70.1 5.6 45.6#

51 63.1 2.7 42.7#



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.219 min Scan# 834

Delta R.T. -0.011 min

Lab File: BF091016.D

Acq: 4 Nov 2016 10:20

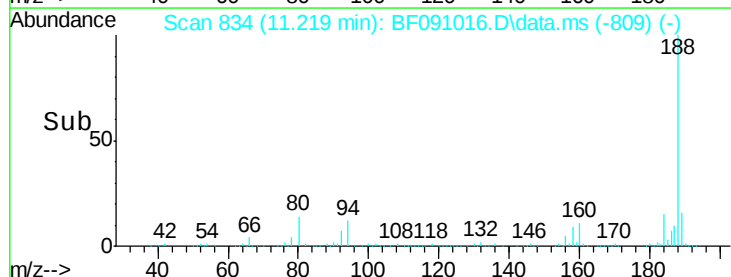
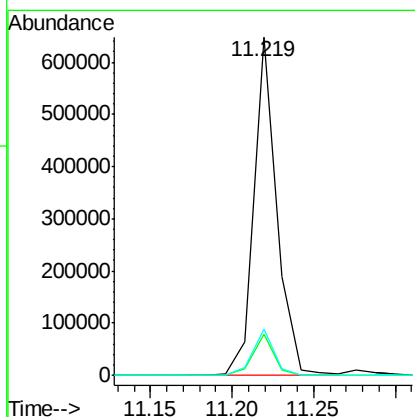
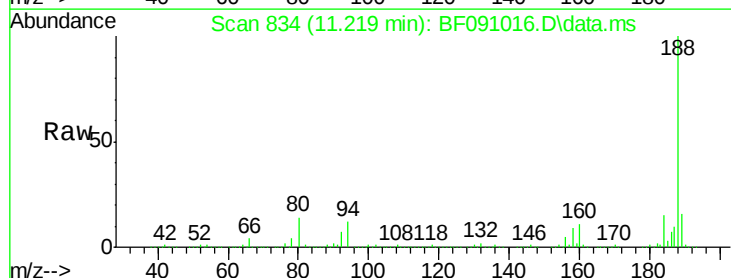
Tgt Ion: 188 Resp: 634731

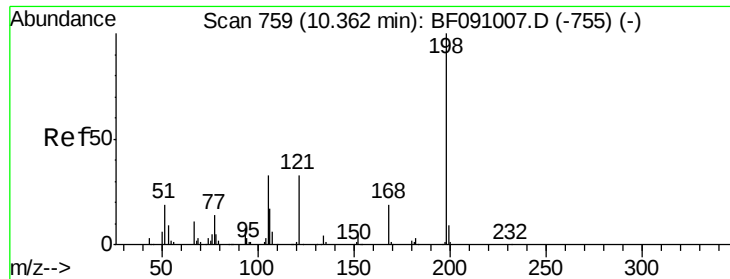
Ion Ratio Lower Upper

188 100

94 12.1 7.0 10.4#

80 13.7 7.5 11.3#





#64

4,6-Dinitro-2-methylphenol

Concen: 0.26 ng

RT: 10.533 min Scan# 774

Delta R.T. 0.172 min

Lab File: BF091016.D

Acq: 4 Nov 2016 10:20

Instrument :

BNA_F

ClientSampleId :

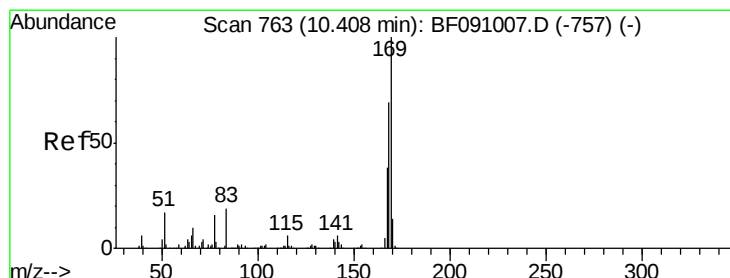
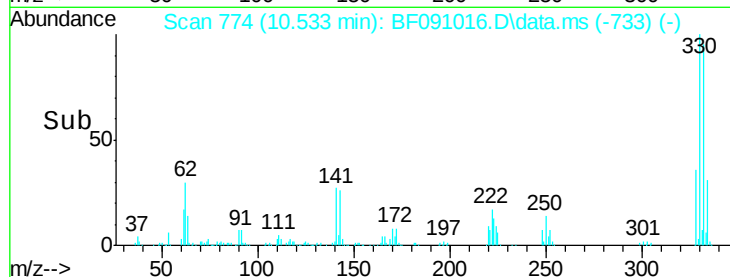
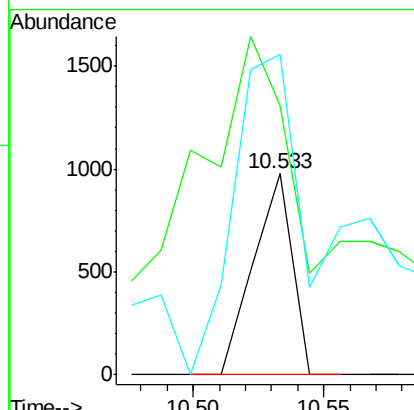
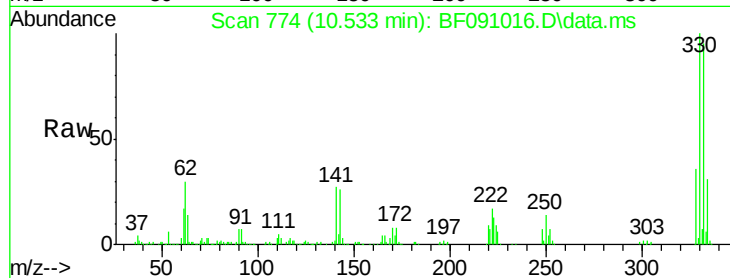
Tot Ion:198 Resp: 1017

Ion Ratio Lower Upper

198 100

51 134.0 5.9 45.9#

105 159.8 13.8 53.8#



#65

n-Nitrosodiphenylamine

Concen: 0.79 ng

RT: 10.533 min Scan# 774

Delta R.T. 0.126 min

Lab File: BF091016.D

Acq: 4 Nov 2016 10:20

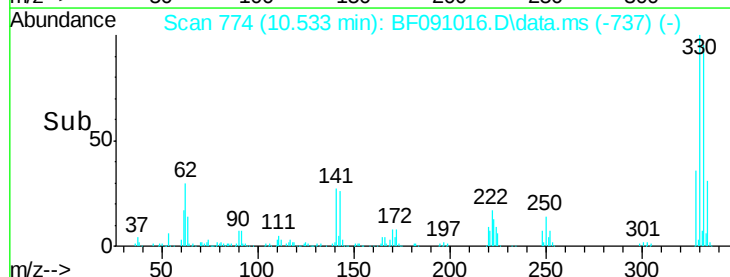
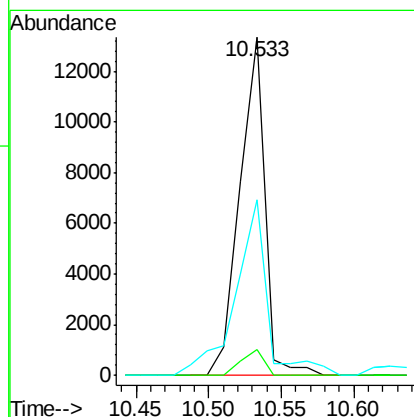
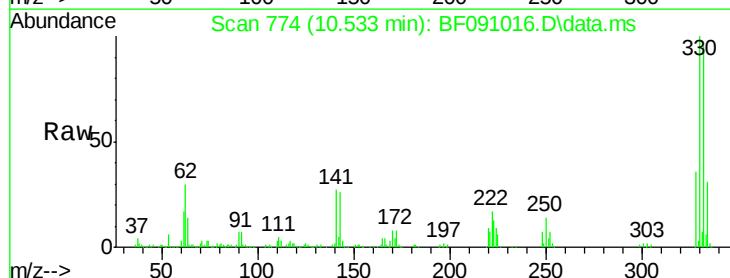
Tgt Ion:169 Resp: 15996

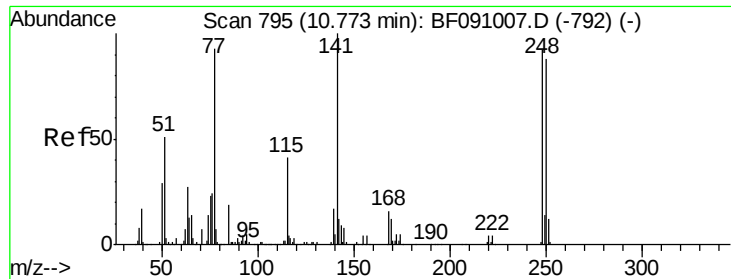
Ion Ratio Lower Upper

169 100

168 7.7 55.3 82.9#

167 51.8 30.3 45.5#

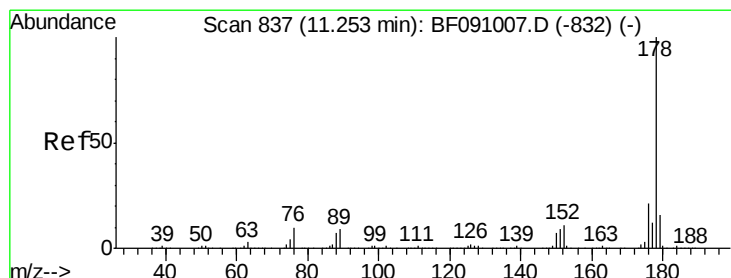
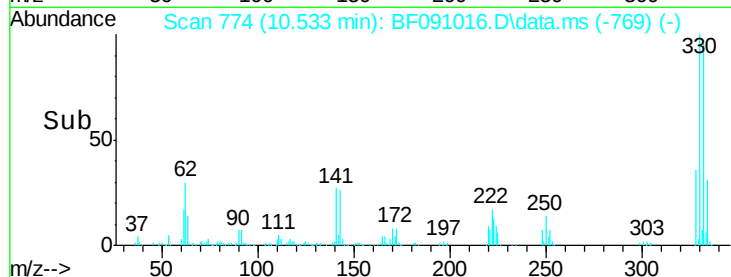
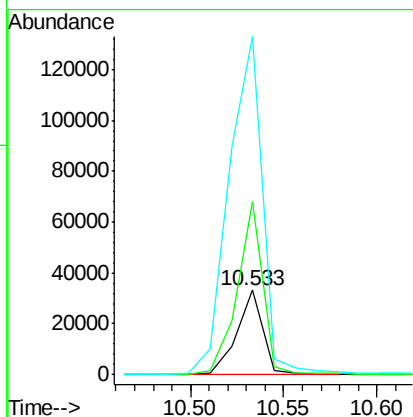
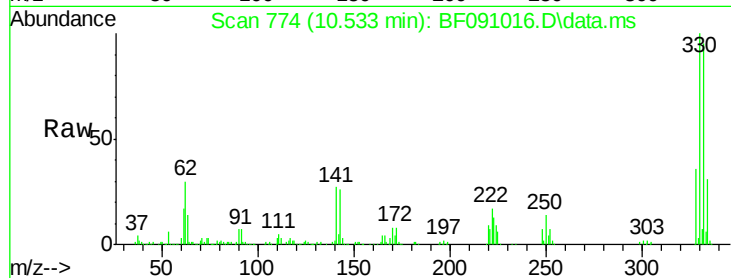




#66
4-Bromophenyl-phenylether
Concen: 4.86 ng
RT: 10.533 min Scan# 77
Delta R.T. -0.240 min
Lab File: BF091016.D
Acq: 4 Nov 2016 10:20

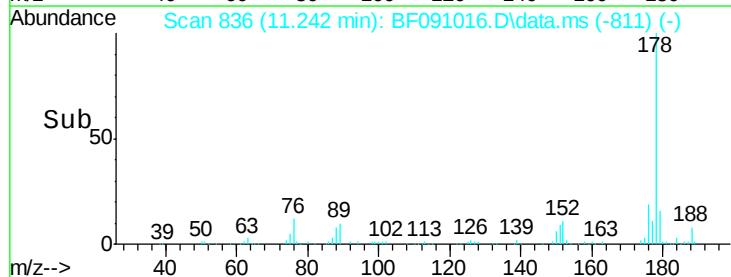
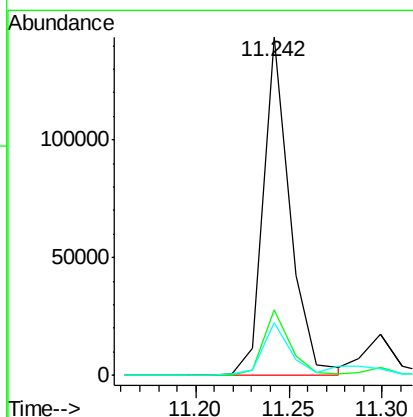
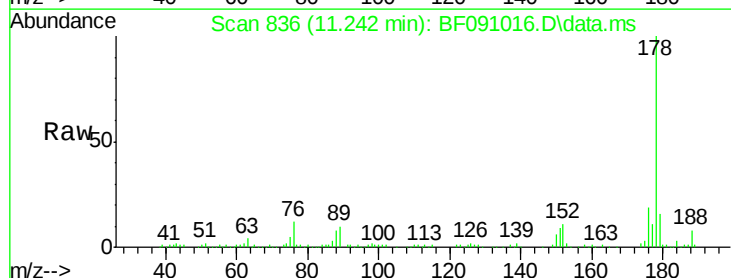
Instrument :
BNA_F
ClientSampleId :

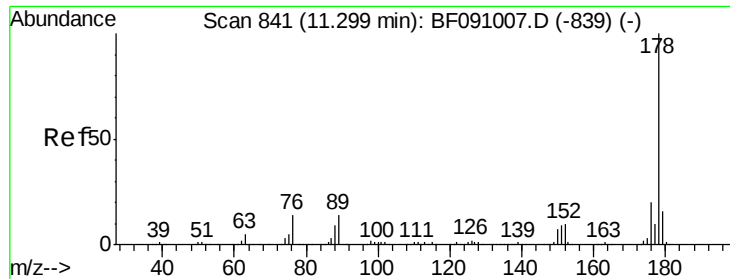
Tot Ion:248 Resp: 32057
Ion Ratio Lower Upper
248 100
250 205.2 76.3 114.5#
141 400.9 86.8 130.2#



#70
Phenanthrene
Concen: 4.19 ng
RT: 11.242 min Scan# 836
Delta R.T. -0.011 min
Lab File: BF091016.D
Acq: 4 Nov 2016 10:20

Tgt Ion:178 Resp: 141448
Ion Ratio Lower Upper
178 100
176 19.4 16.6 25.0
179 15.6 12.9 19.3

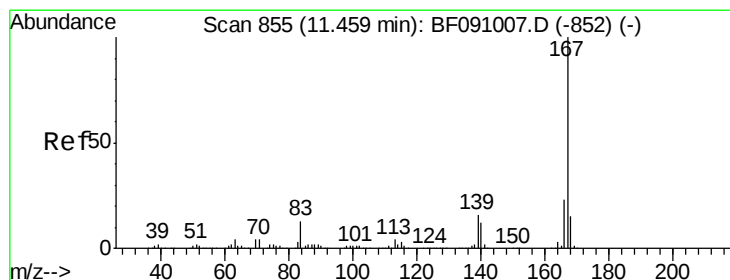
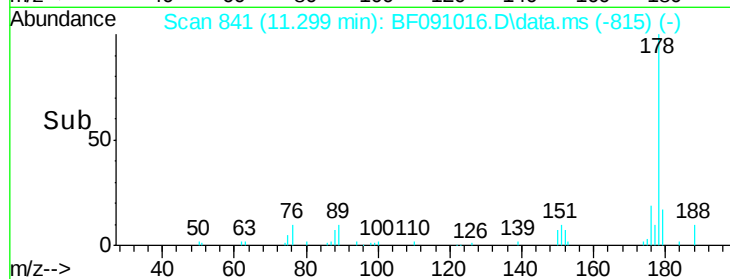
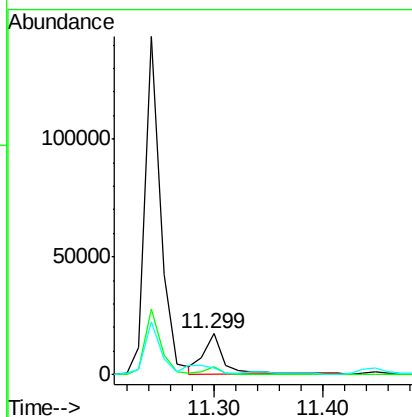
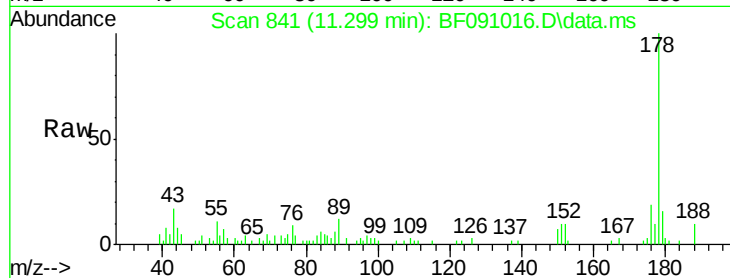




#71
 Anthracene
 Concen: 0.61 ng
 RT: 11.299 min Scan# 841
 Delta R.T. 0.000 min
 Lab File: BF091016.D
 Acq: 4 Nov 2016 10:20

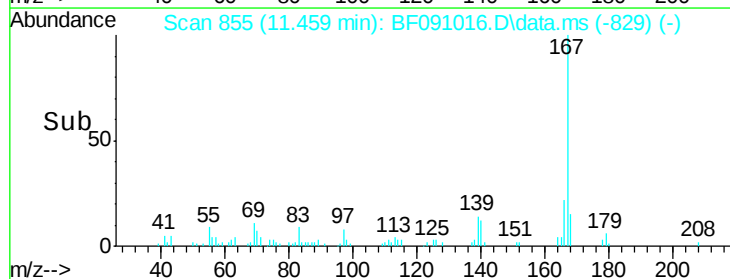
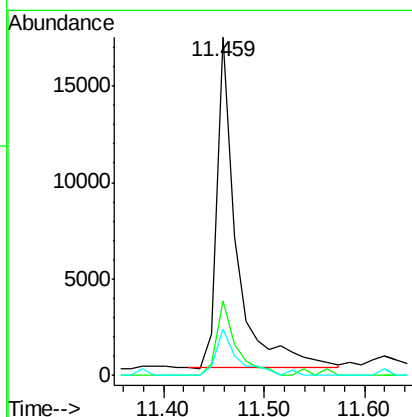
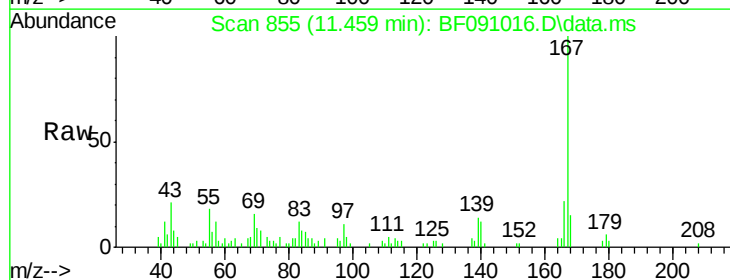
Instrument :
 BNA_F
 ClientSampleId :

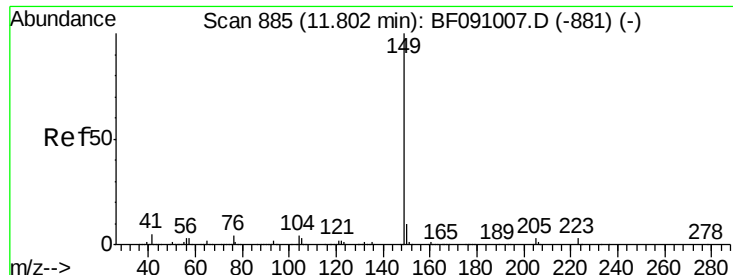
Tot Ion:178 Resp: 21802
 Ion Ratio Lower Upper
 178 100
 176 18.6 16.0 24.0
 179 16.3 13.0 19.6



#72
 Carbazole
 Concen: 0.72 ng
 RT: 11.459 min Scan# 855
 Delta R.T. 0.000 min
 Lab File: BF091016.D
 Acq: 4 Nov 2016 10:20

Tgt Ion:167 Resp: 23224
 Ion Ratio Lower Upper
 167 100
 166 22.0 18.0 27.0
 139 13.7 12.6 18.8





#73

Di-n-butylphthalate

Concen: 0.52 ng

RT: 11.791 min Scan# 88

Delta R.T. -0.011 min

Lab File: BF091016.D

Acq: 4 Nov 2016 10:20

Instrument :

BNA_F

ClientSampleId :

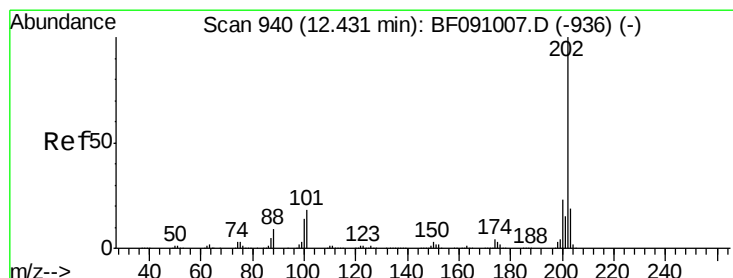
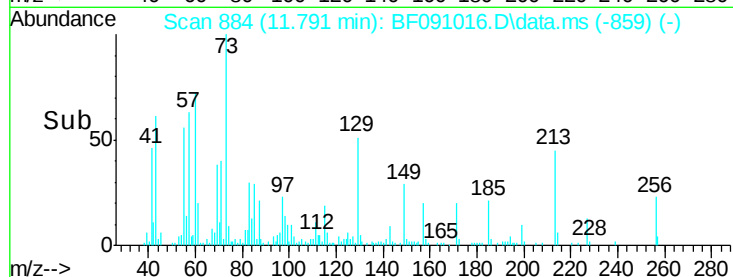
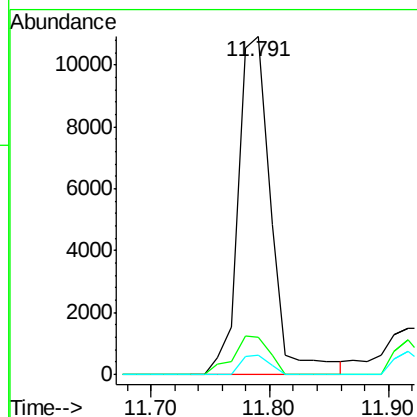
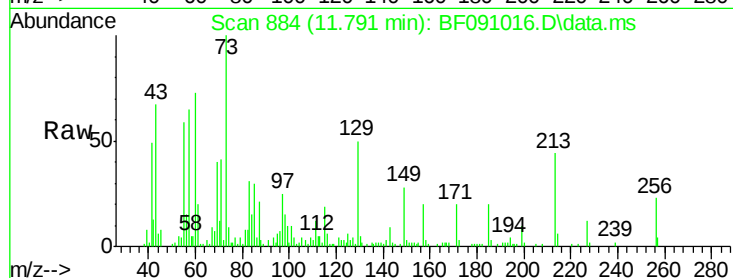
Tot Ion:149 Resp: 21076

Ion Ratio Lower Upper

149 100

150 10.9 7.7 11.5

104 5.5 3.6 5.4#



#74

Fluoranthene

Concen: 1.56 ng

RT: 12.431 min Scan# 940

Delta R.T. 0.000 min

Lab File: BF091016.D

Acq: 4 Nov 2016 10:20

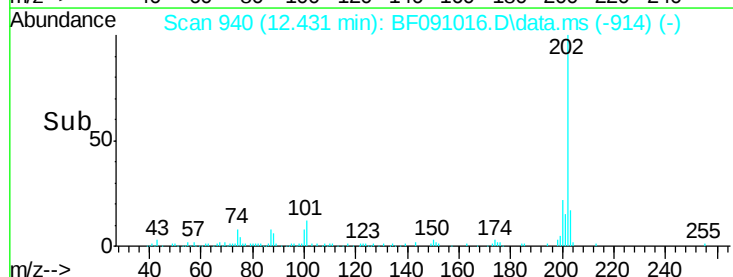
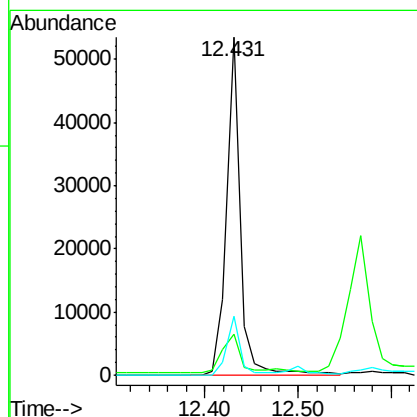
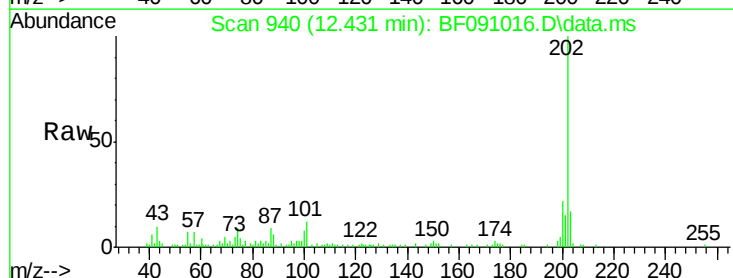
Tgt Ion:202 Resp: 54612

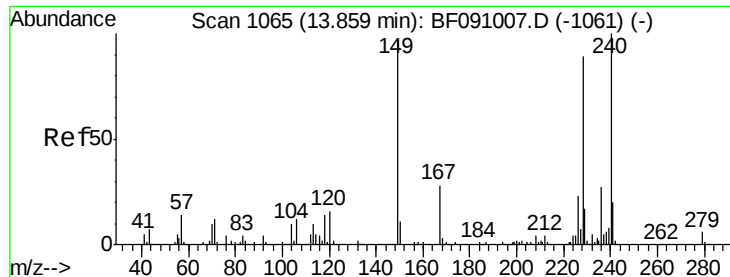
Ion Ratio Lower Upper

202 100

101 12.1 0.0 37.6

203 17.3 0.0 38.6





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.859 min Scan# 1065

Delta R.T. 0.000 min

Lab File: BF091016.D

Acq: 4 Nov 2016 10:20

Instrument :

BNA_F

ClientSampleId :

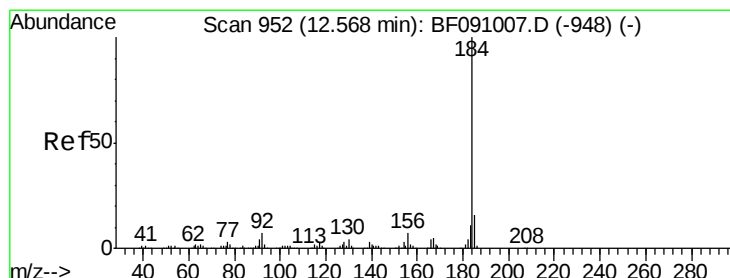
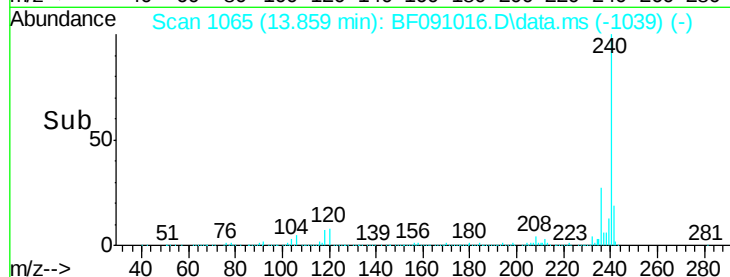
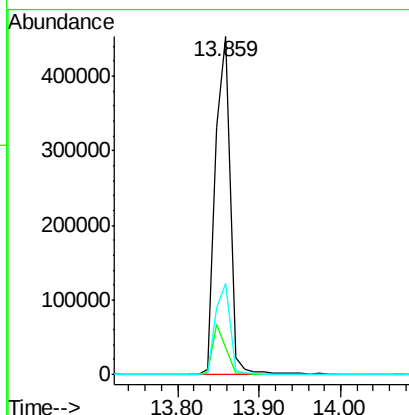
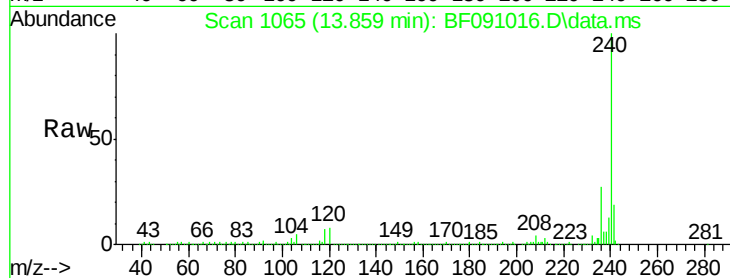
Tot Ion:240 Resp: 576068

Ion Ratio Lower Upper

240 100

120 7.9 12.9 19.3#

236 26.8 21.9 32.9



#76

Benzidine

Concen: 0.12 ng

RT: 12.579 min Scan# 953

Delta R.T. 0.011 min

Lab File: BF091016.D

Acq: 4 Nov 2016 10:20

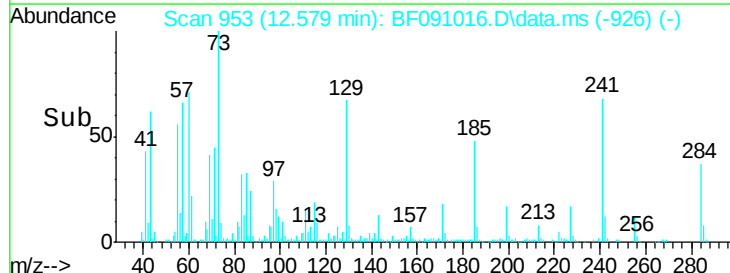
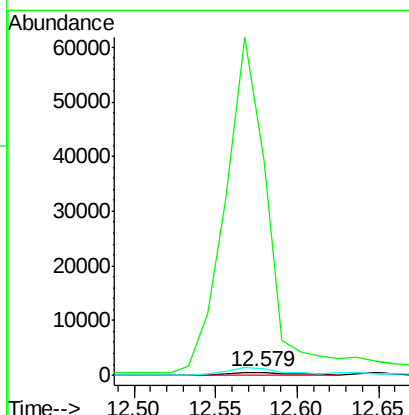
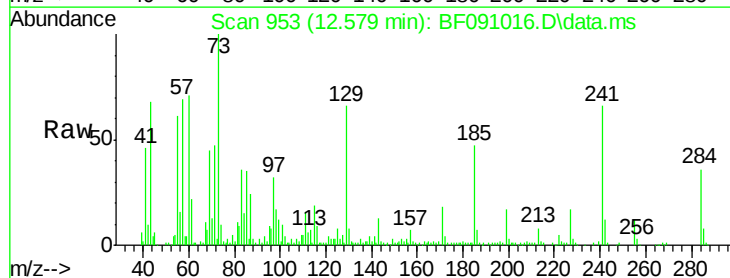
Tgt Ion:184 Resp: 1605

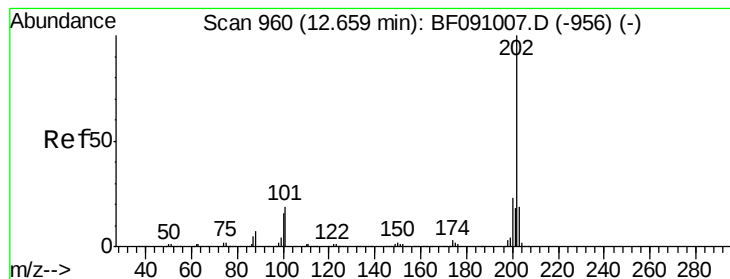
Ion Ratio Lower Upper

184 100

185 7440.0 13.0 19.4#

183 203.8 8.7 13.1#





#77

Pvrene

Concen: 0.97 ng

RT: 12.659 min Scan# 96

Delta R.T. 0.000 min

Lab File: BF091016.D

Acq: 4 Nov 2016 10:20

Instrument :

BNA_F

ClientSampled :

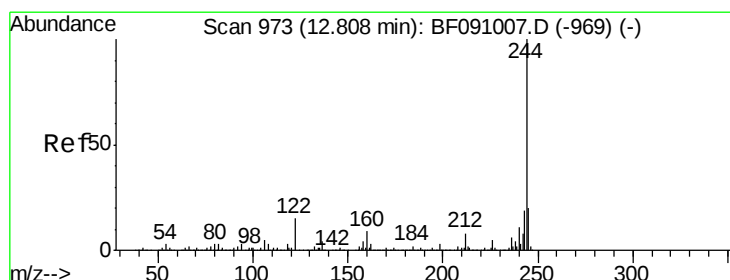
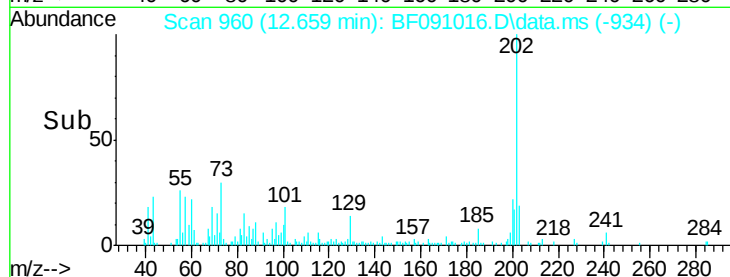
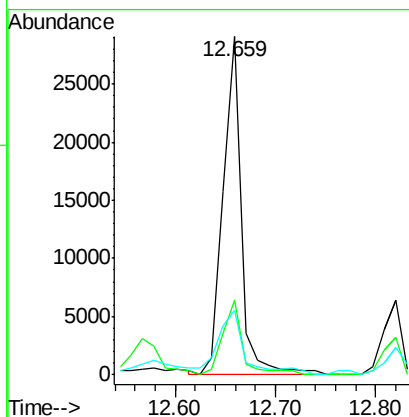
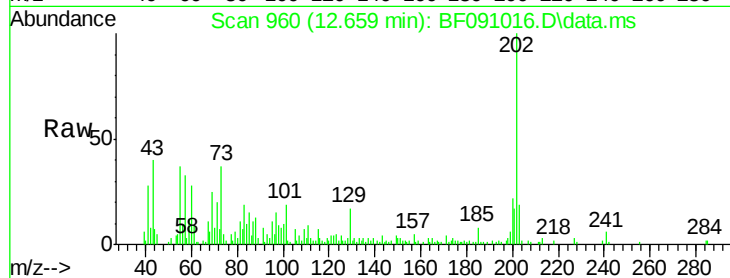
Tot Ion:202 Resp: 36648

Ion Ratio Lower Upper

202 100

200 22.1 18.4 27.6

203 19.1 15.0 22.6



#78

Terphenyl-d14

Concen: 98.09 ng

RT: 12.819 min Scan# 974

Delta R.T. 0.011 min

Lab File: BF091016.D

Acq: 4 Nov 2016 10:20

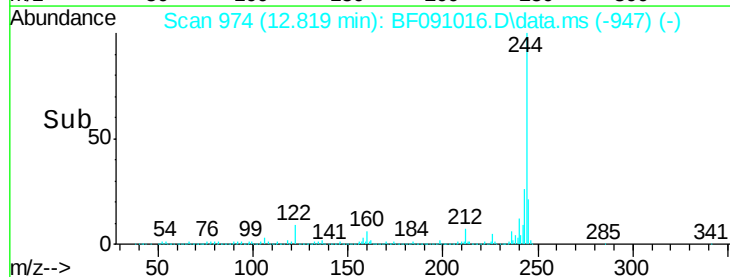
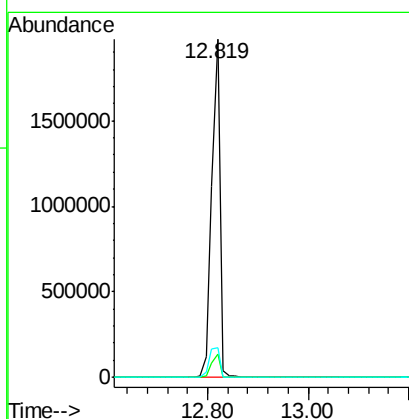
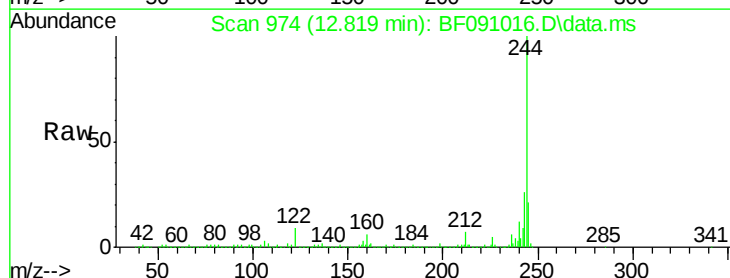
Tgt Ion:244 Resp: 2264290

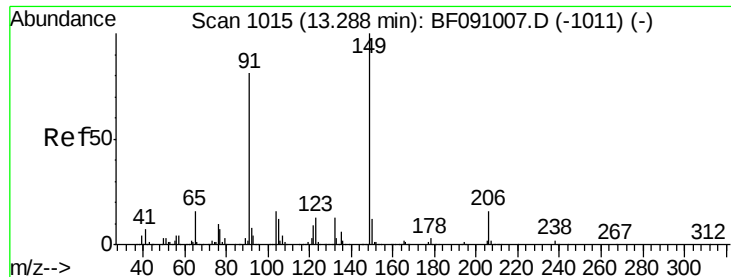
Ion Ratio Lower Upper

244 100

212 7.0 6.4 9.6

122 8.9 12.3 18.5#

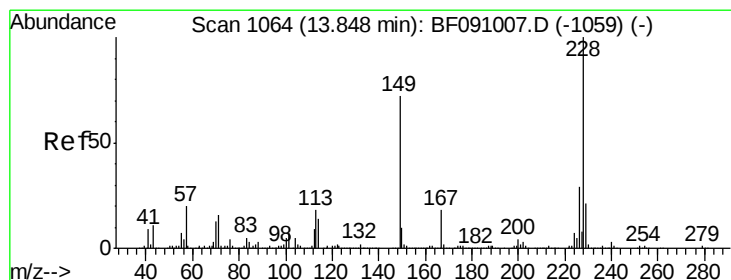
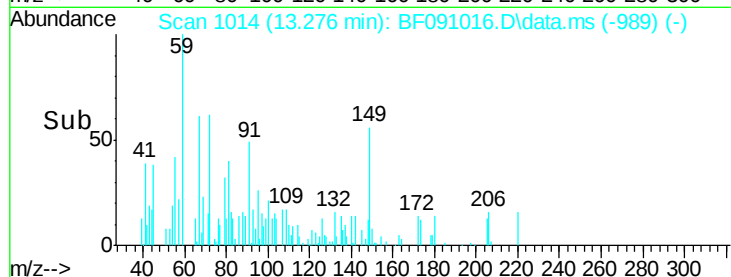
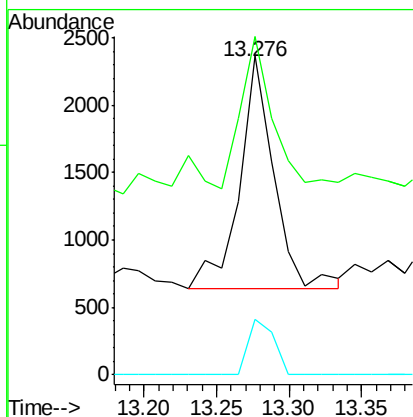
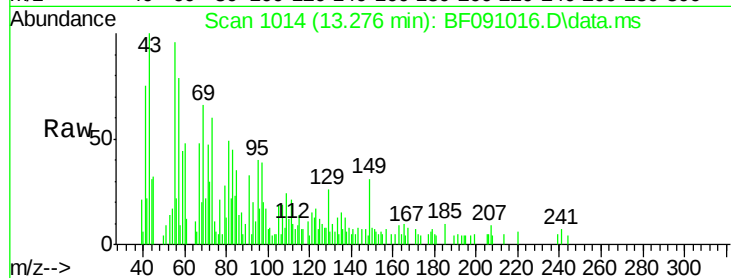




#79
Butylbenzylphthalate
Concen: 0.16 ng
RT: 13.276 min Scan# 1014
Delta R.T. -0.011 min
Lab File: BF091016.D
Acq: 4 Nov 2016 10:20

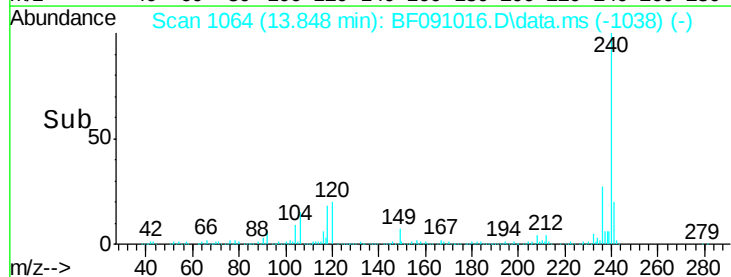
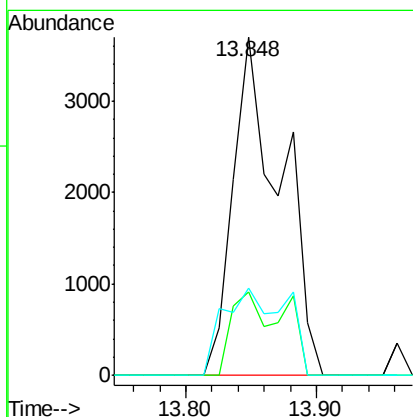
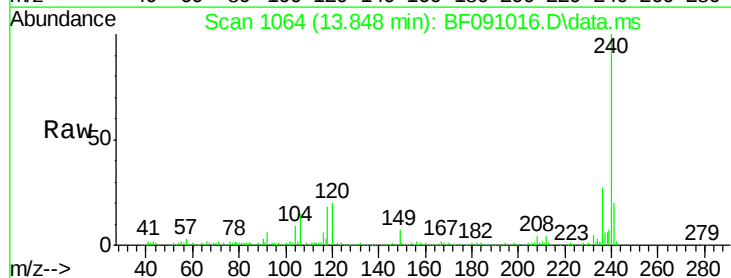
Instrument :
BNA_F
ClientSampleId :

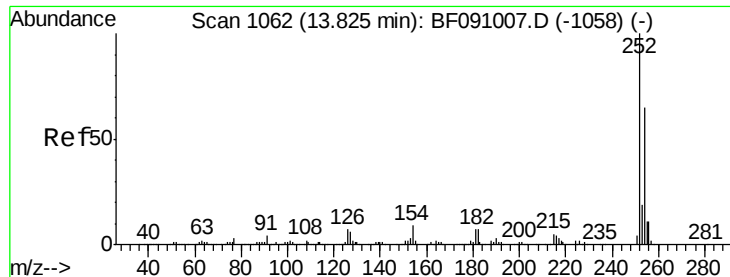
Tot Ion:149 Resp: 2862
Ion Ratio Lower Upper
149 100
91 105.9 65.0 97.4#
206 17.4 12.5 18.7



#80
Benzo(a)anthracene
Concen: 0.29 ng
RT: 13.848 min Scan# 1064
Delta R.T. 0.000 min
Lab File: BF091016.D
Acq: 4 Nov 2016 10:20

Tgt Ion:228 Resp: 9446
Ion Ratio Lower Upper
228 100
226 24.7 23.0 34.6
229 25.8 16.6 24.8#

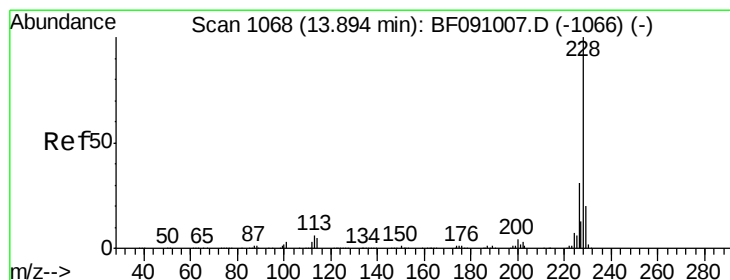
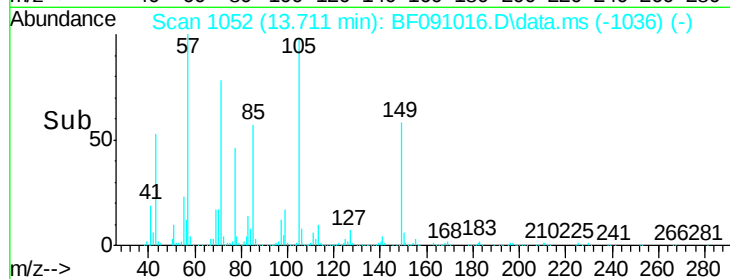
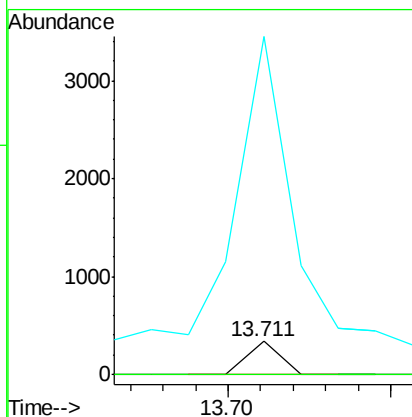
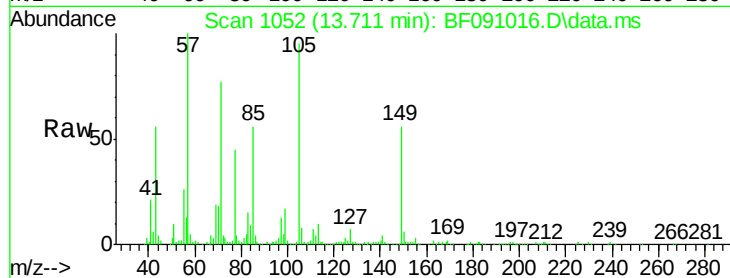




#81
 3,3'-Dichlorobenzidine
 Concen: 0.02 ng
 RT: 13.711 min Scan# 1061
 Delta R.T. -0.114 min
 Lab File: BF091016.D
 Acq: 4 Nov 2016 10:20

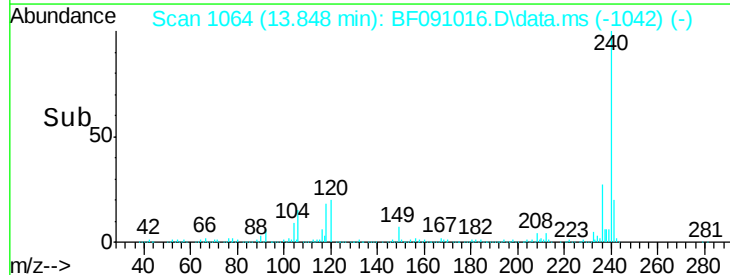
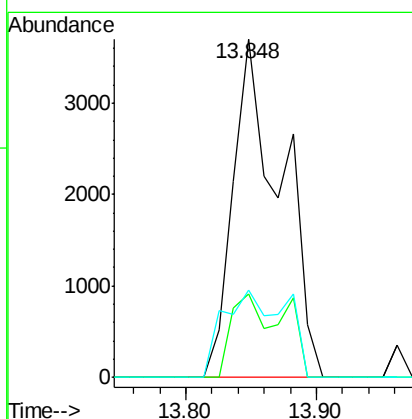
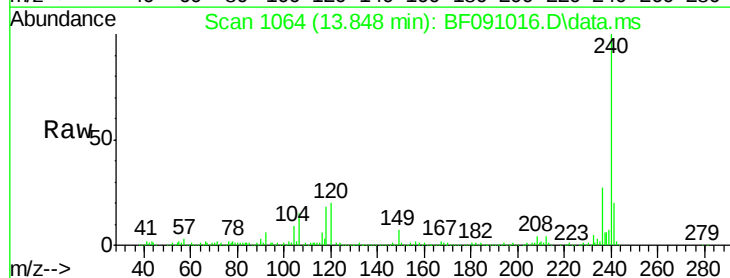
Instrument :
 BNA_F
 ClientSampleId :

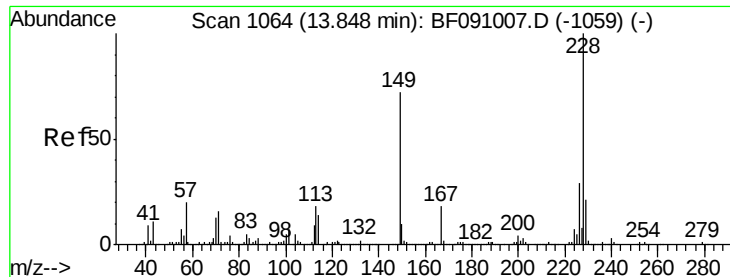
Tot Ion:252 Resp: 230
 Ion Ratio Lower Upper
 252 100
 254 0.0 52.0 78.0#
 126 1027.1 5.4 8.2#



#82
 Chrysene
 Concen: 0.29 ng
 RT: 13.848 min Scan# 1064
 Delta R.T. -0.046 min
 Lab File: BF091016.D
 Acq: 4 Nov 2016 10:20

Tgt Ion:228 Resp: 9446
 Ion Ratio Lower Upper
 228 100
 226 24.7 24.9 37.3#
 229 25.8 15.9 23.9#

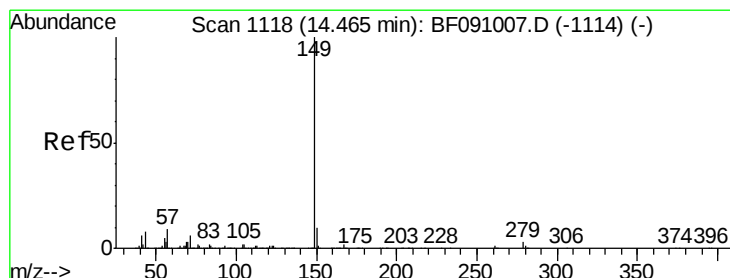
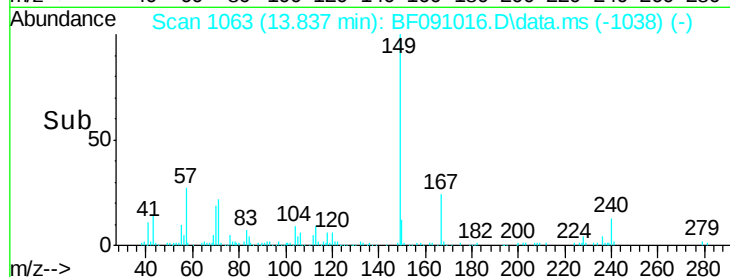
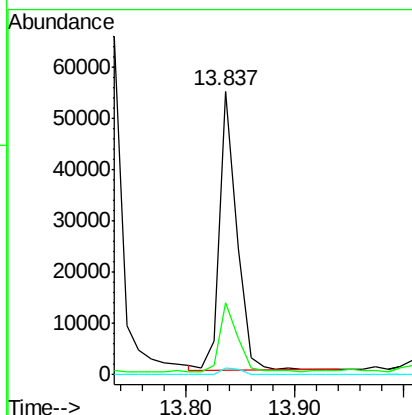
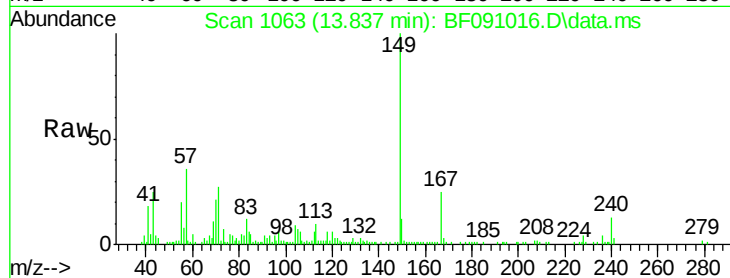




#83
 Bis(2-ethylhexyl)phthalate
 Concen: 2.45 ng
 RT: 13.837 min Scan# 1063
 Delta R.T. -0.011 min
 Lab File: BF091016.D
 Acq: 4 Nov 2016 10:20

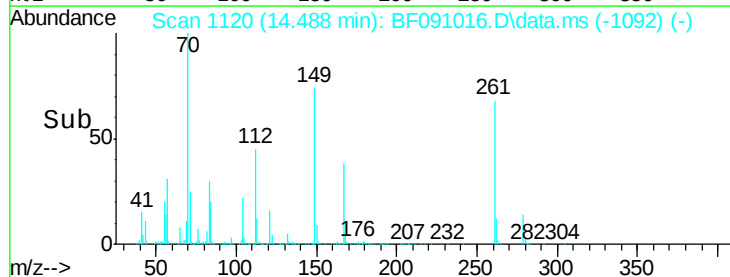
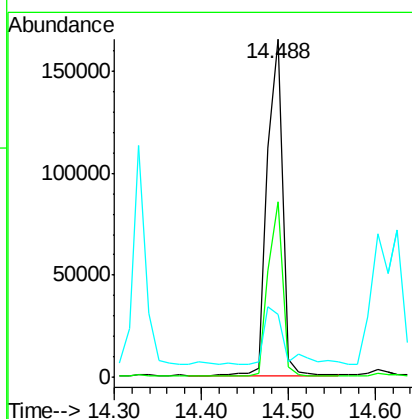
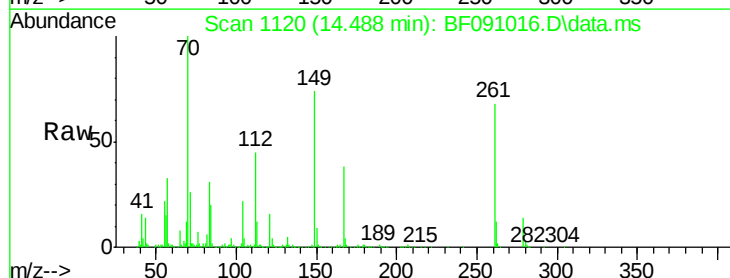
Instrument :
 BNA_F
 ClientSampleId :

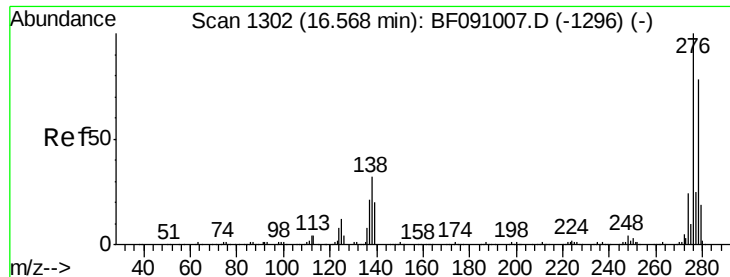
Tot Ion:149 Resp: 59915
 Ion Ratio Lower Upper
 149 100
 167 25.4 20.4 30.6
 279 2.2 1.6 2.4



#84
 Di-n-octyl phthalate
 Concen: 5.03 ng
 RT: 14.488 min Scan# 1120
 Delta R.T. 0.023 min
 Lab File: BF091016.D
 Acq: 4 Nov 2016 10:20

Tgt Ion:149 Resp: 201867
 Ion Ratio Lower Upper
 149 100
 167 48.7 1.2 1.8#
 43 23.6 8.2 12.4#





#85

Indeno(1,2,3-cd)pyrene

Concen: 0.02 ng

RT: 16.557 min Scan# 1302

Delta R.T. -0.011 min

Lab File: BF091016.D

Acq: 4 Nov 2016 10:20

Instrument :

BNA_F

ClientSampleId :

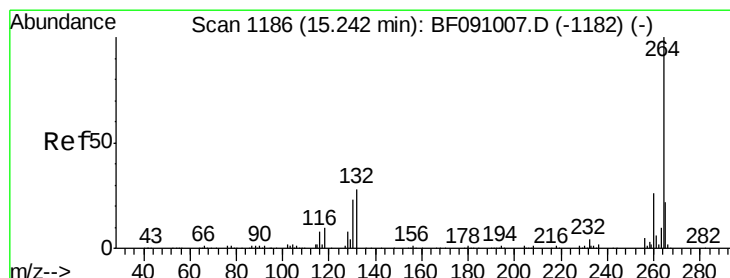
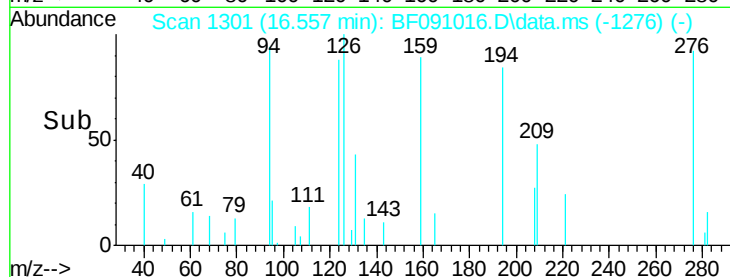
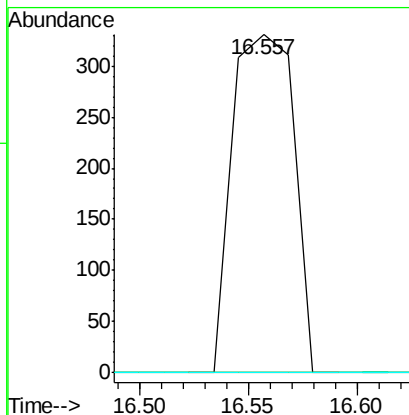
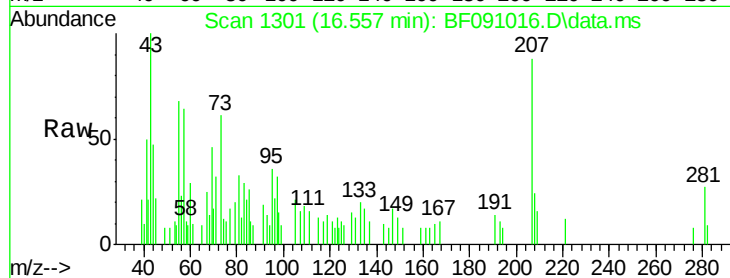
Tot Ion:276 Resp: 652

Ion Ratio Lower Upper

276 100

138 0.0 26.0 39.0#

277 0.0 20.1 30.1#



#86

Perylene-d12

Concen: 20.00 ng

RT: 15.242 min Scan# 1186

Delta R.T. 0.000 min

Lab File: BF091016.D

Acq: 4 Nov 2016 10:20

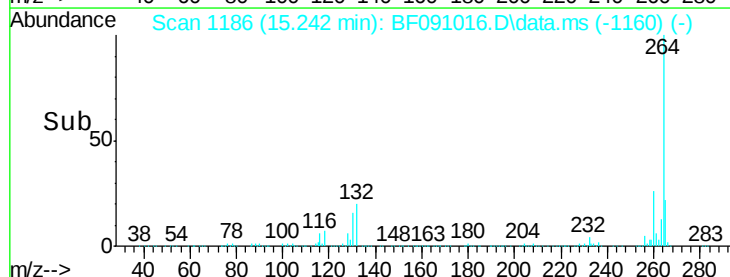
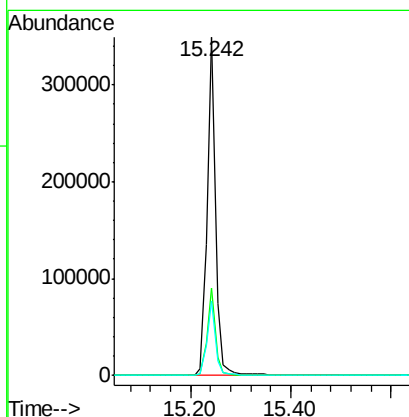
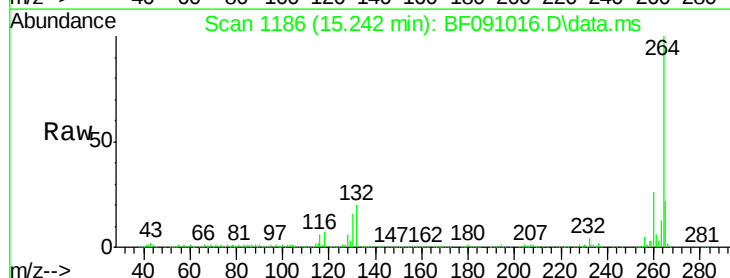
Tgt Ion:264 Resp: 409643

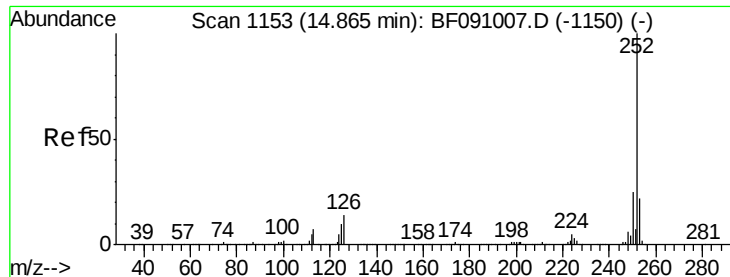
Ion Ratio Lower Upper

264 100

260 25.7 20.6 30.8

265 21.9 17.8 26.8

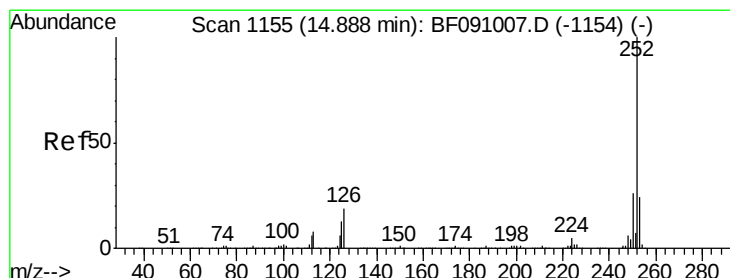
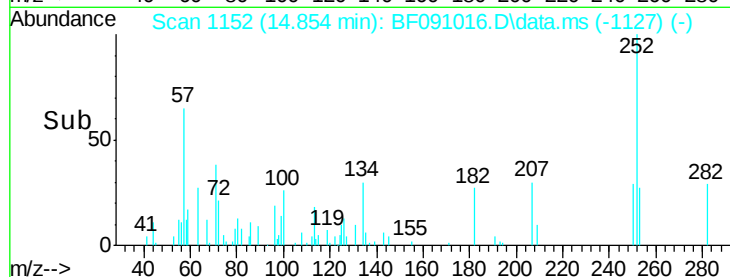
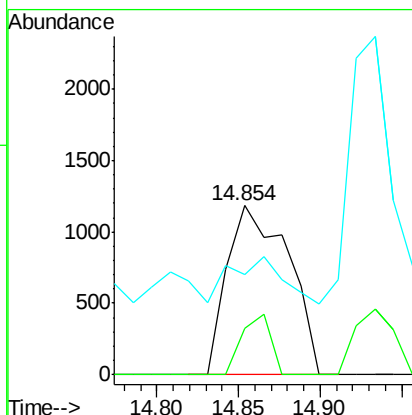
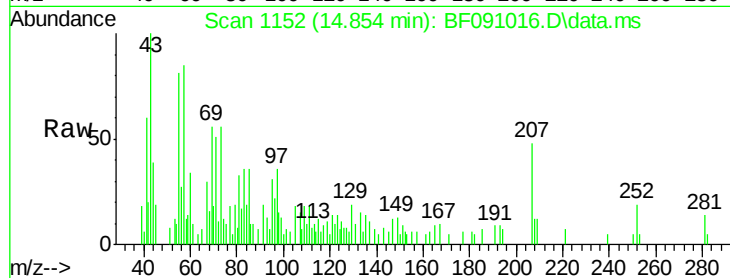




#87
Benzo(b)fluoranthene
Concen: 0.11 ng
RT: 14.854 min Scan# 1153
Delta R.T. -0.011 min
Lab File: BF091016.D
Acq: 4 Nov 2016 10:20

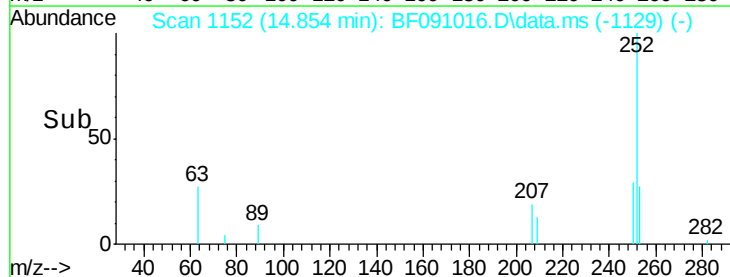
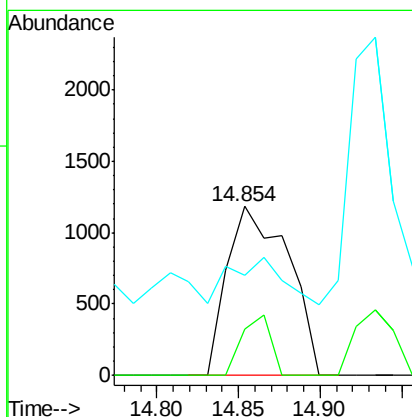
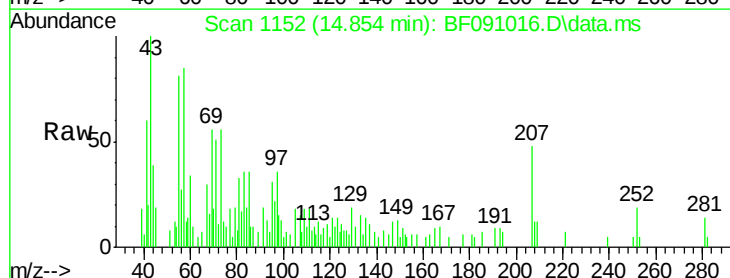
Instrument :
BNA_F
ClientSampleId :

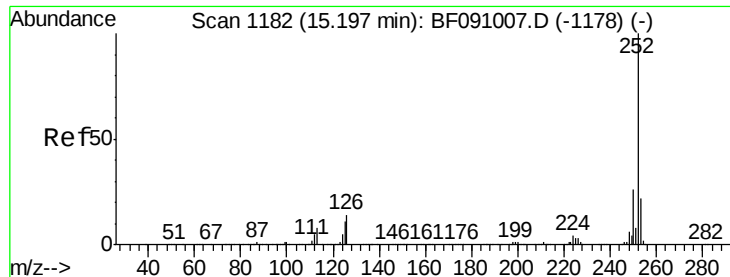
Tot Ion:252 Resp: 3074
Ion Ratio Lower Upper
252 100
253 27.4 18.0 27.0#
125 59.2 8.3 12.5#



#88
Benzo(k)fluoranthene
Concen: 0.13 ng
RT: 14.854 min Scan# 1152
Delta R.T. -0.034 min
Lab File: BF091016.D
Acq: 4 Nov 2016 10:20

Tgt Ion:252 Resp: 3074
Ion Ratio Lower Upper
252 100
253 27.4 18.6 28.0
125 59.2 11.2 16.8#





#89

Benzo(a)pyrene

Concen: 0.03 ng

RT: 15.185 min Scan# 11

Delta R.T. -0.011 min

Lab File: BF091016.D

Acq: 4 Nov 2016 10:20

Instrument :

BNA_F

ClientSampleId :

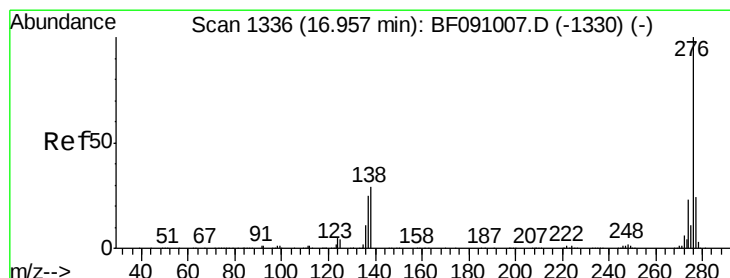
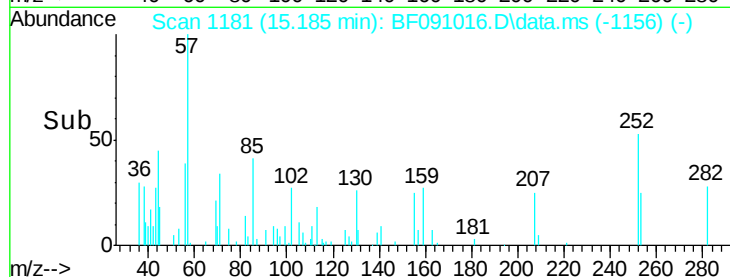
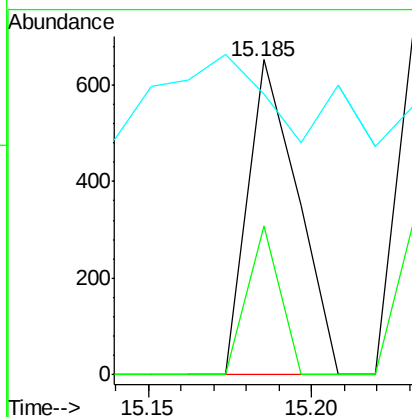
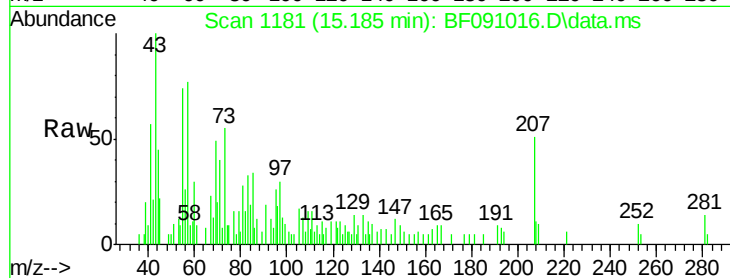
Tot Ion:252 Resp: 690

Ion Ratio Lower Upper

252 100

253 46.9 17.8 26.8#

125 89.0 8.6 13.0#



#91

Benzo(g,h,i)perylene

Concen: 0.03 ng

RT: 16.945 min Scan# 1335

Delta R.T. -0.011 min

Lab File: BF091016.D

Acq: 4 Nov 2016 10:20

Tgt Ion:276 Resp: 493

Ion Ratio Lower Upper

276 100

277 0.0 19.2 28.8#

138 0.0 23.3 34.9#

