

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF103018\
 Data File : BF110304.D
 Acq On : 30 Oct 2018 15:47
 Operator : JU/SJ
 Sample : J5724-04MS
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RED-SHALEMS

Quant Time: Oct 31 04:31:08 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 29 17:29:00 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.97	152	121282	20.00	ng	0.00
21) Naphthalene-d8	8.26	136	488796	20.00	ng	0.00
39) Acenaphthene-d10	10.02	164	217225	20.00	ng	0.00
64) Phenanthrene-d10	11.51	188	348792	20.00	ng	0.00
76) Chrysene-d12	14.17	240	222773	20.00	ng	0.01
87) Perylene-d12	15.70	264	190845	20.00	ng	0.01

System Monitoring Compounds

5) 2-Fluorophenol	5.60	112	696082	93.46	ng	0.01
7) Phenol-d6	6.60	99	891072	93.54	ng	0.00
23) Nitrobenzene-d5	7.54	82	561181	68.10	ng	0.00
42) 2,4,6-Tribromophenol	10.81	330	188958	87.82	ng	0.00
45) 2-Fluorobiphenyl	9.33	172	1018079	73.59	ng	0.00
79) Terphenyl-d14	13.09	244	734161	68.54	ng	0.00

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.89	88	82687	21.191	ng	91
3) Pyridine	3.66	79	229645	26.423	ng	# 84
4) n-Nitrosodimethylamine	3.62	42	124173	34.102	ng	89
6) Aniline	6.63	93	241428	19.455	ng	# 54
8) 2-Chlorophenol	6.76	128	270546	31.508	ng	99
9) Benzaldehyde	6.52	77	116062	17.842	ng	96
10) Phenol	6.62	94	388785	38.181	ng	# 63
11) bis(2-Chloroethyl)ether	6.70	93	243019	29.008	ng	93
12) 1,3-Dichlorobenzene	6.91	146	282496	29.896	ng	99
13) 1,4-Dichlorobenzene	6.99	146	284877	29.809	ng	97
14) 1,2-Dichlorobenzene	7.14	146	268921	30.312	ng	99
15) Benzyl Alcohol	7.11	79	238852	32.600	ng	93
16) 2,2'-oxybis(1-Chloropropan	7.24	45	396242	29.582	ng	69
17) 2-Methylphenol	7.22	107	221292	32.338	ng	# 82
18) Hexachloroethane	7.48	117	101792	29.093	ng	97
19) n-Nitroso-di-n-propylamine	7.38	70	183863	30.085	ng	97
20) 3+4-Methylphenols	7.37	107	279884	31.641	ng	94
22) Acetophenone	7.38	105	371426	32.978	ng	99
24) Nitrobenzene	7.56	77	275780	32.414	ng	91
25) Isophorone	7.79	82	500463	35.626	ng	98
26) 2-Nitrophenol	7.87	139	142166	35.114	ng	94
27) 2,4-Dimethylphenol	7.90	122	242084	36.064	ng	98
28) bis(2-Chloroethoxy)methane	7.99	93	321025	33.640	ng	99
29) 2,4-Dichlorophenol	8.11	162	227482	33.544	ng	99
30) 1,2,4-Trichlorobenzene	8.19	180	242862	31.971	ng	96
31) Naphthalene	8.27	128	835822	37.101	ng	99
33) 4-Chloroaniline	8.32	127	140593	13.867	ng	97
34) Hexachlorobutadiene	8.39	225	134998	32.007	ng	98
35) Caprolactam	8.69	113	45058	19.062	ng	91
36) 4-Chloro-3-methylphenol	8.80	107	239822	32.703	ng	97
37) 2-Methylnaphthalene	8.97	142	551863	37.025	ng	97
38) 1-Methylnaphthalene	9.07	142	513527	35.652	ng	99
40) 1,2,4,5-Tetrachlorobenzene	9.13	216	228190	33.715	ng	99
41) Hexachlorocyclopentadiene	9.12	237	99312	28.696	ng	100

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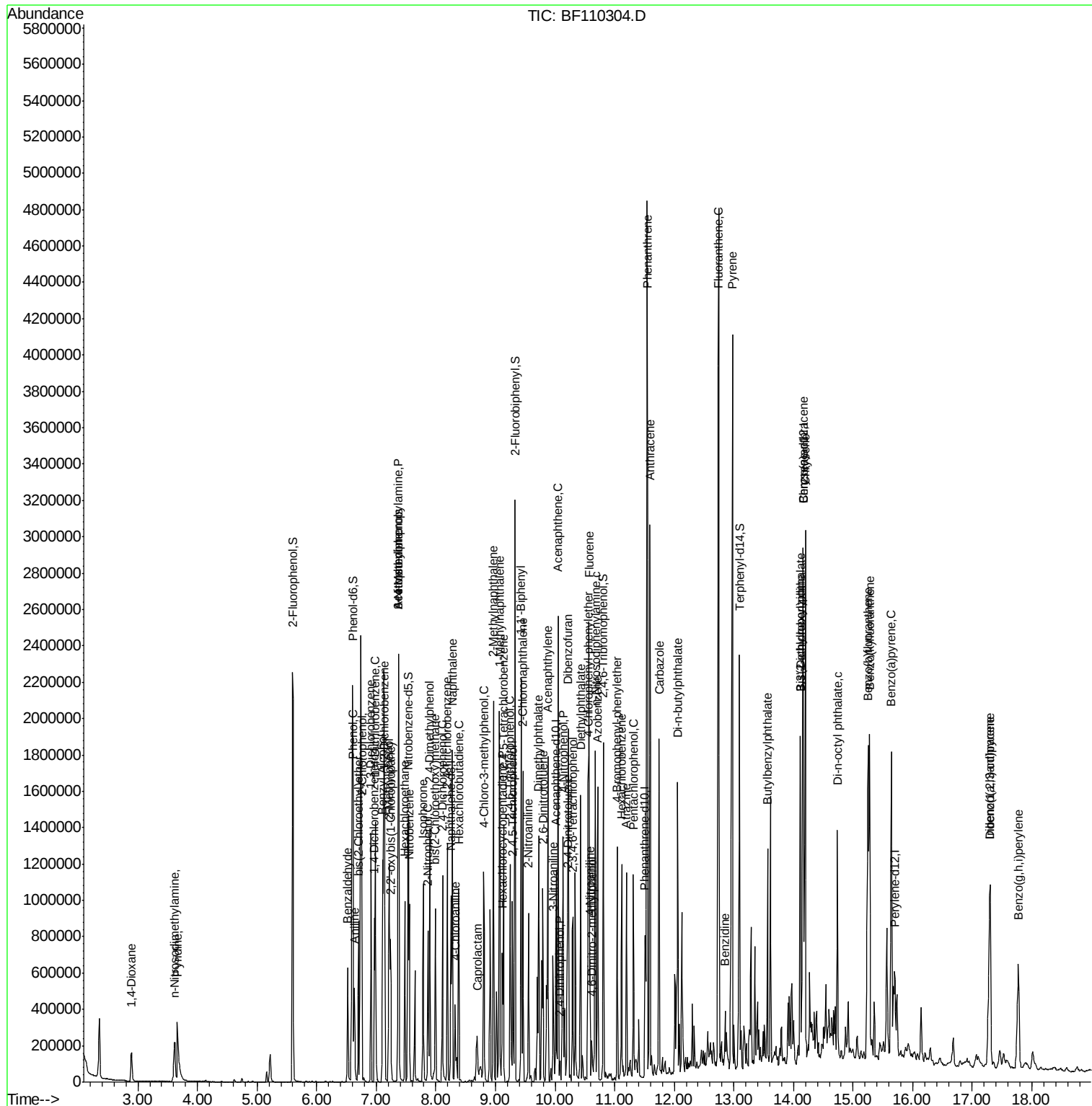
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) 2,4,6-Trichlorophenol	9.25	196	153291	35.114	ng	96
44) 2,4,5-Trichlorophenol	9.29	196	160274	34.733	ng	95
46) 1,1'-Biphenyl	9.43	154	643895	32.779	ng	99
47) 2-Chloronaphthalene	9.46	162	481622	33.425	ng	98
48) 2-Nitroaniline	9.56	65	147039	33.675	ng	95
49) Acenaphthylene	9.88	152	754451	36.251	ng	99
50) Dimethylphthalate	9.73	163	650752	40.583	ng	100
51) 2,6-Dinitrotoluene	9.80	165	116882	33.840	ng	94
52) Acenaphthene	10.05	154	543642	39.486	ng	99
53) 3-Nitroaniline	9.97	138	98753	24.042	ng	94
54) 2,4-Dinitrophenol	10.08	184	11544	13.051	ng	94
55) Dibenzofuran	10.22	168	739377	38.356	ng	98
56) 4-Nitrophenol	10.13	139	241676	79.498	ng	97
57) 2,4-Dinitrotoluene	10.20	165	145157	33.086	ng	93
58) Fluorene	10.57	166	665022	46.355	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.30	232	114670	30.488	ng	97
60) Diethylphthalate	10.43	149	526852	33.659	ng	100
61) 4-Chlorophenyl-phenylether	10.55	204	237832	31.425	ng	96
62) 4-Nitroaniline	10.59	138	111538	27.302	ng	94
63) Azobenzene	10.72	77	491067	31.606	ng	94
65) 4,6-Dinitro-2-methylphenol	10.62	198	19181	12.037	ng	91
66) n-Nitrosodiphenylamine	10.67	169	429237	37.519	ng	95
67) 4-Bromophenyl-phenylether	11.05	248	134237	35.481	ng	# 91
68) Hexachlorobenzene	11.12	284	130033	32.393	ng	# 88
69) Atrazine	11.20	200	128655	35.585	ng	99
70) Pentachlorophenol	11.32	266	114233	48.802	ng	97
71) Phenanthrene	11.54	178	2110796	115.657	ng	98
72) Anthracene	11.59	178	1140907	62.368	ng	100
73) Carbazole	11.74	167	724056	40.538	ng	99
74) Di-n-butylphthalate	12.06	149	728335	36.105	ng	99
75) Fluoranthene	12.74	202	2226302	120.197	ng	97
77) Benzidine	12.85	184	114751	13.290	ng	96
78) Pyrene	12.97	202	1979040	123.915	ng	99
80) Butylbenzylphthalate	13.56	149	251749	36.317	ng	98
81) Benzo(a)anthracene	14.16	228	1213439	91.851	ng	98
82) 3,3'-Dichlorobenzidine	14.11	252	130754	28.423	ng	99
83) Chrysene	14.20	228	1036096	82.572	ng	98
84) Bis(2-ethylhexyl)phthalate	14.12	149	348139	37.152	ng	96
85) Di-n-octyl phthalate	14.73	149	572323	39.279	ng	# 99
86) Indeno(1,2,3-cd)pyrene	17.29	276	609067	58.510	ng	99
88) Benzo(b)fluoranthene	15.25	252	1215325	110.278	ng	97
89) Benzo(k)fluoranthene	15.28	252	541937	50.020	ng	97
90) Benzo(a)pyrene	15.64	252	880439	86.822	ng	99
91) Dibenzo(a,h)anthracene	17.30	278	342093	39.096	ng	100
92) Benzo(g,h,i)perylene	17.77	276	524049	60.778	ng	98

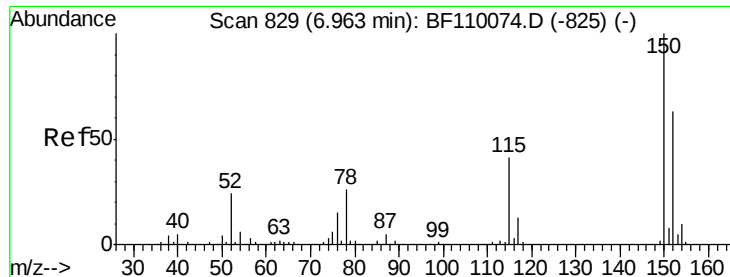
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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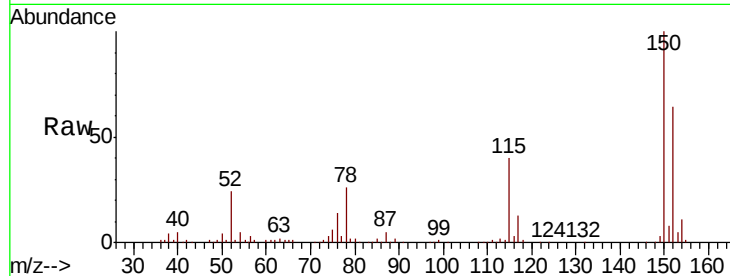




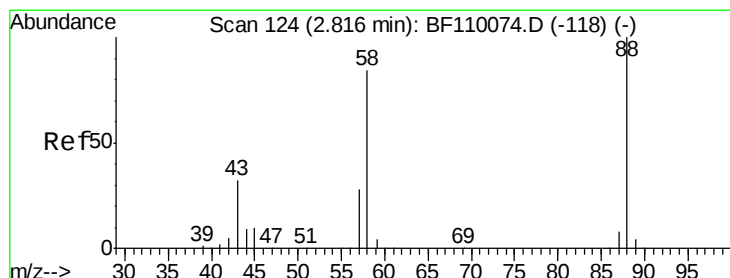
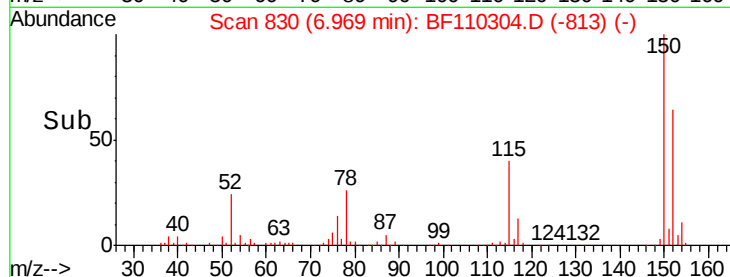
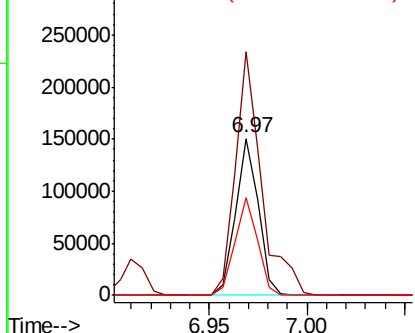
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.97 min Scan# 830
 Delta R.T. 0.00 min
 Lab File: BF110304.D
 Acq: 30 Oct 2018 15:47

Instrument :
 BNA_F
 ClientSampleId :
 RED-SHALEMS

Tgt Ion:152 Resp: 121282
 Ion Ratio Lower Upper
 152 100
 150 155.1 122.7 184.1
 115 61.9 49.1 73.7

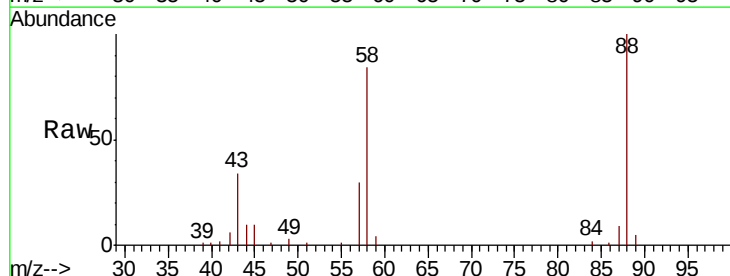


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

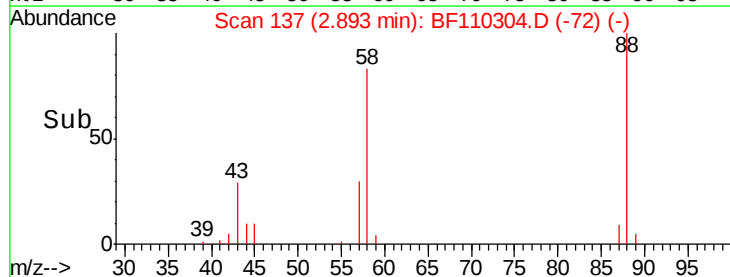
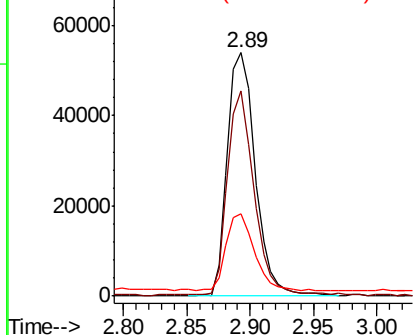


#2
 1,4-Dioxane
 Concen: 21.191 ng
 RT: 2.89 min Scan# 137
 Delta R.T. 0.08 min
 Lab File: BF110304.D
 Acq: 30 Oct 2018 15:47

Tgt Ion: 88 Resp: 82687
 Ion Ratio Lower Upper
 88 100
 58 81.3 57.1 85.7
 43 31.8 24.1 36.1



Abundance Ion 88.00 (87.70 to 88.70): BF1
 Ion 58.00 (57.70 to 58.70): BF1
 Ion 43.00 (42.70 to 43.70): BF1





#3

Pyridine

Concen: 26.423 ng

RT: 3.66 min Scan# 268

Delta R.T. 0.07 min

Lab File: BF110304.D

Acq: 30 Oct 2018 15:47

Instrument :

BNA_F

ClientSampleId :

RED-SHALEMS

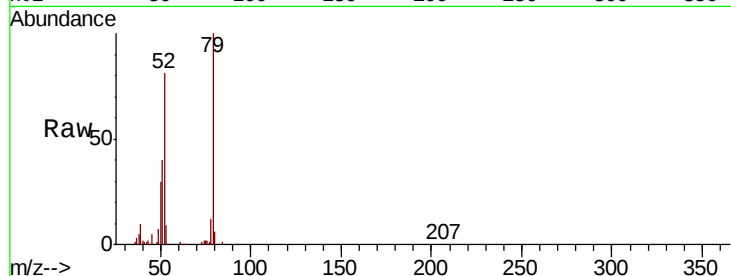
Tgt Ion: 79 Resp: 229645

Ion Ratio Lower Upper

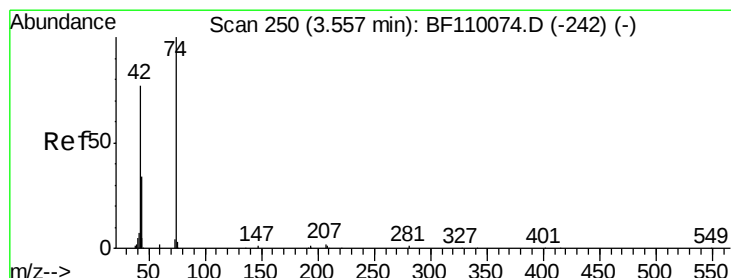
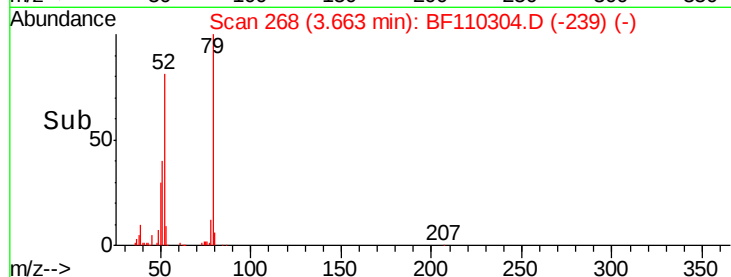
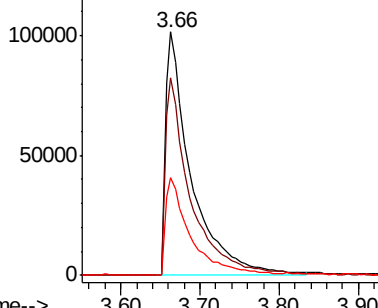
79 100

52 81.2 53.1 79.7#

51 40.3 27.4 41.2



Abundance Ion 79.00 (78.70 to 79.70): BF1
Ion 52.00 (51.70 to 52.70): BF1
Ion 51.00 (50.70 to 51.70): BF1



#4

n-Nitrosodimethylamine

Concen: 34.102 ng

RT: 3.62 min Scan# 260

Delta R.T. 0.06 min

Lab File: BF110304.D

Acq: 30 Oct 2018 15:47

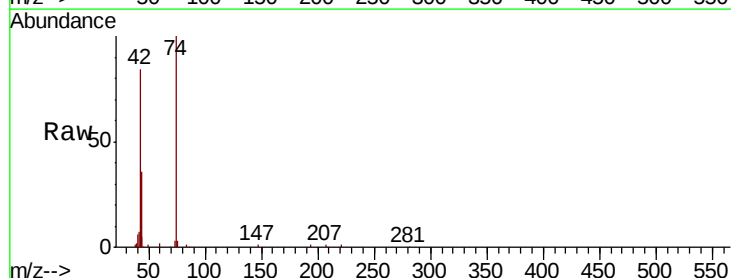
Tgt Ion: 42 Resp: 124173

Ion Ratio Lower Upper

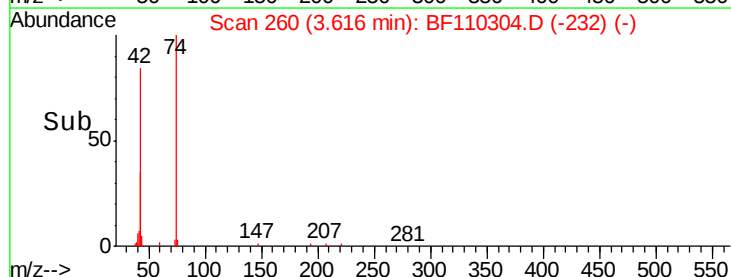
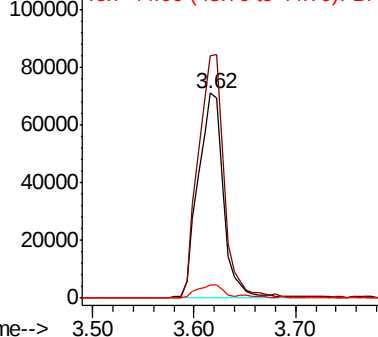
42 100

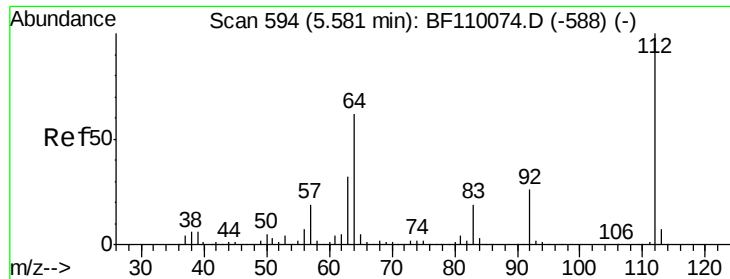
74 118.4 105.5 158.3

44 6.5 4.9 7.3



Abundance Ion 42.00 (41.70 to 42.70): BF1
Ion 74.00 (73.70 to 74.70): BF1
Ion 44.00 (43.70 to 44.70): BF1





#5

2-Fluorophenol

Concen: 93.463 ng

RT: 5.60 min Scan# 597

Delta R.T. 0.01 min

Lab File: BF110304.D

Acq: 30 Oct 2018 15:47

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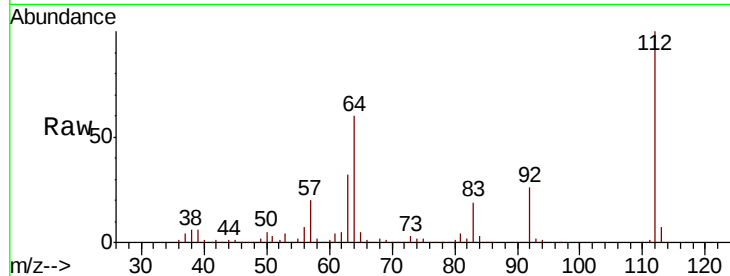
Tgt Ion: 112 Resp: 696082

Ion Ratio Lower Upper

112 100

64 60.4 44.1 66.1

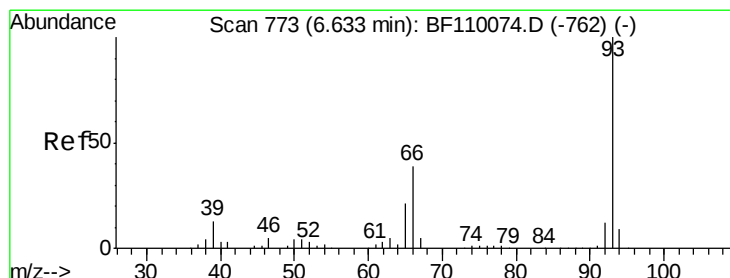
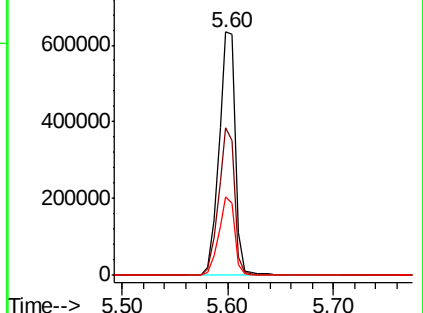
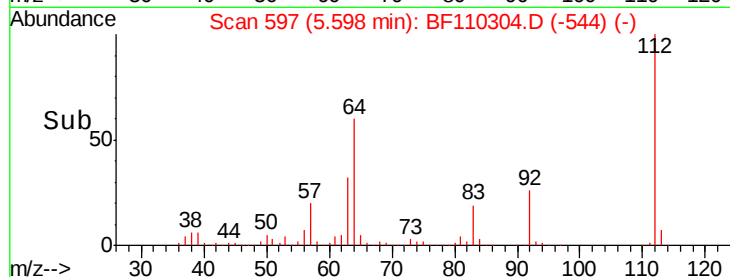
63 32.5 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1



#6

Aniline

Concen: 19.455 ng

RT: 6.63 min Scan# 773

Delta R.T. 0.00 min

Lab File: BF110304.D

Acq: 30 Oct 2018 15:47

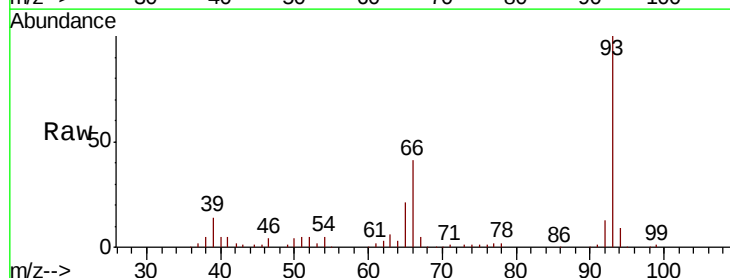
Tgt Ion: 93 Resp: 241428

Ion Ratio Lower Upper

93 100

66 41.4 67.4 101.0#

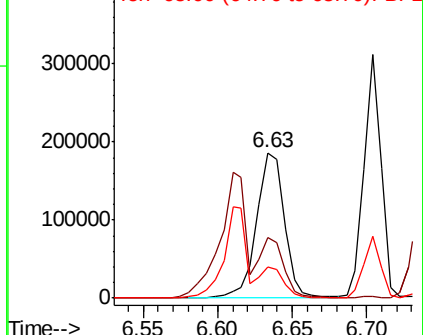
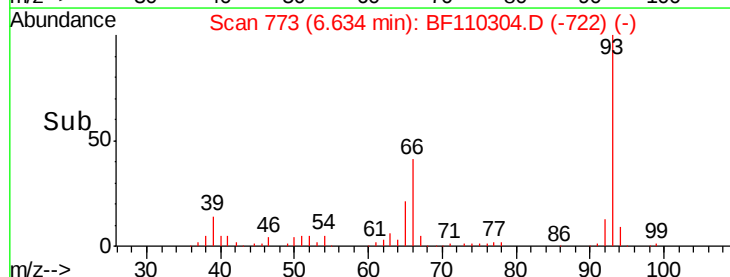
65 21.2 41.0 61.4#

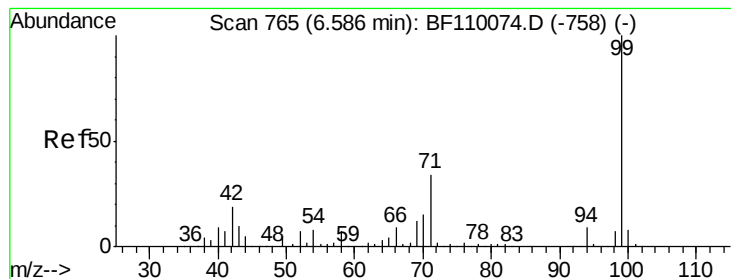


Abundance Ion 93.00 (92.70 to 93.70): BF1

Ion 66.00 (65.70 to 66.70): BF1

Ion 65.00 (64.70 to 65.70): BF1





#7

Phenol-d6

Concen: 93.539 ng

RT: 6.60 min Scan# 767

Delta R.T. 0.01 min

Lab File: BF110304.D

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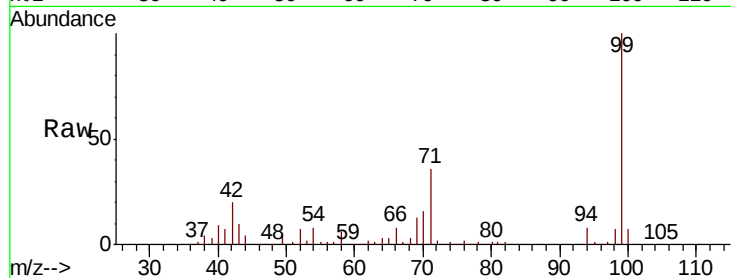
Tgt Ion: 99 Resp: 891072

Ion Ratio Lower Upper

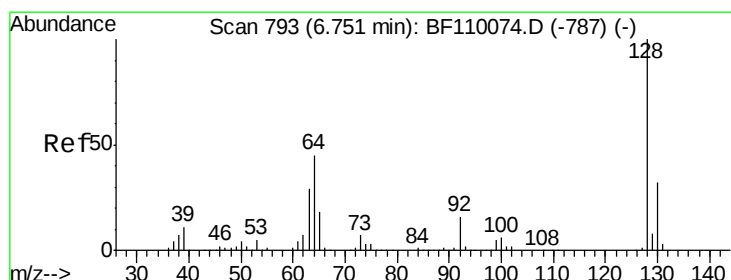
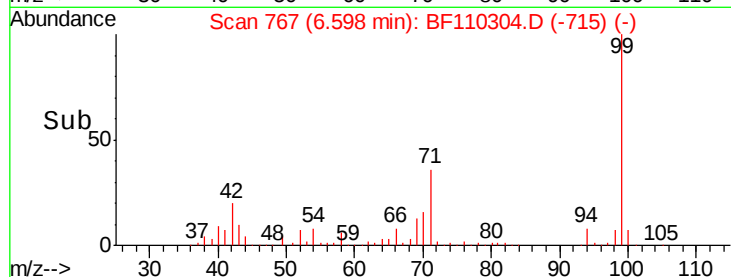
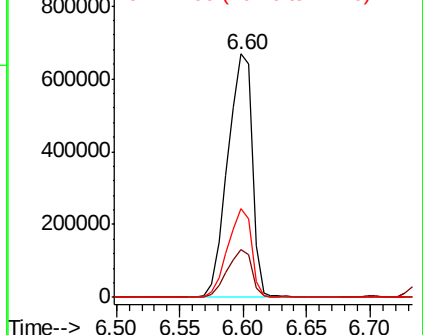
99 100

42 19.7 15.8 23.6

71 36.4 28.0 42.0



Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#8

2-Chlorophenol

Concen: 31.508 ng

RT: 6.76 min Scan# 794

Delta R.T. 0.00 min

Lab File: BF110304.D

Acq: 30 Oct 2018 15:47

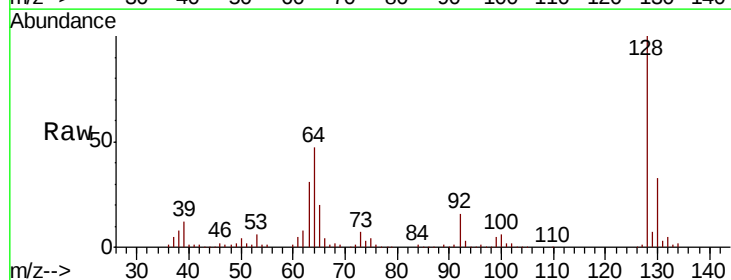
Tgt Ion: 128 Resp: 270546

Ion Ratio Lower Upper

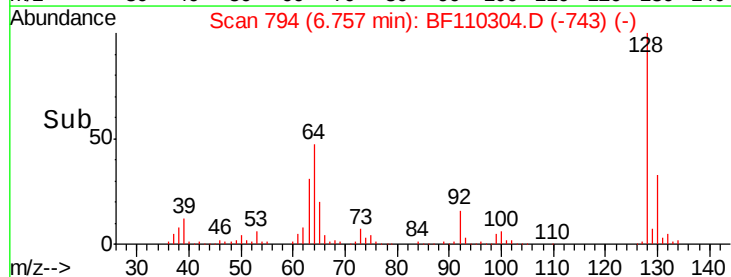
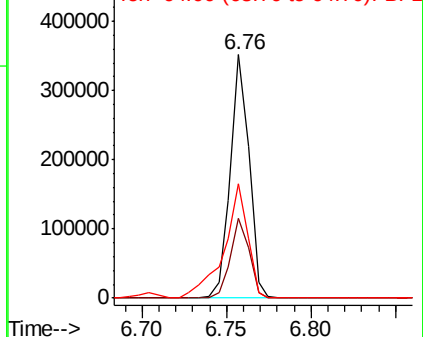
128 100

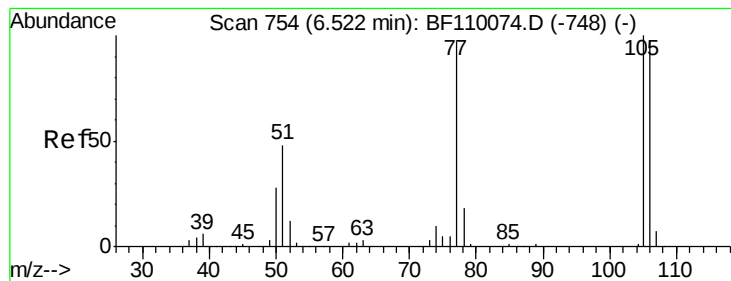
130 32.7 13.1 53.1

64 46.8 26.0 66.0



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 130.00 (129.70 to 130.70): E
Ion 64.00 (63.70 to 64.70): BF1





#9

Benzaldehyde

Concen: 17.842 ng

RT: 6.52 min Scan# 754

Delta R.T. 0.00 min

Lab File: BF110304.D

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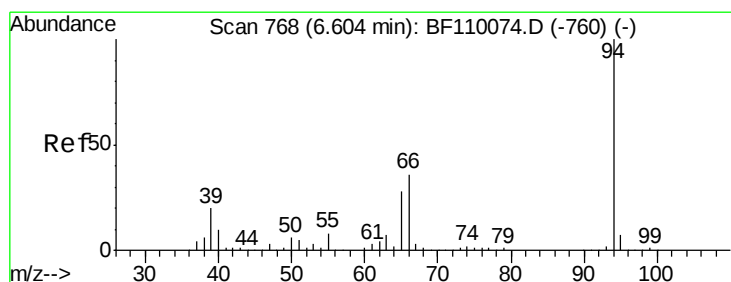
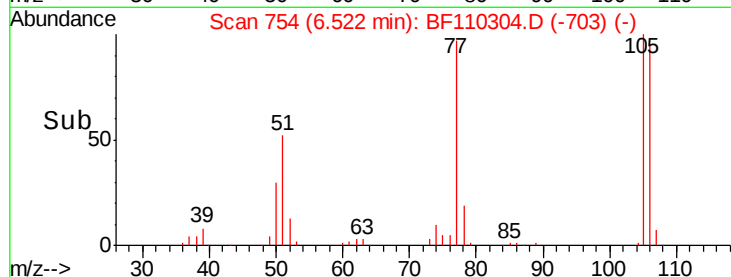
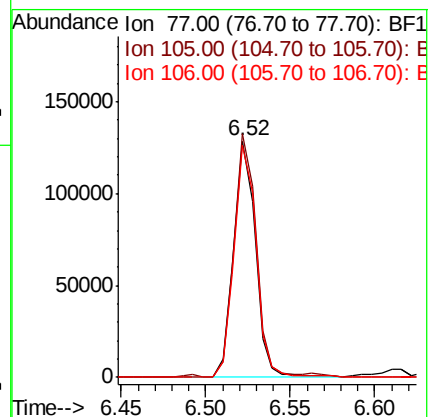
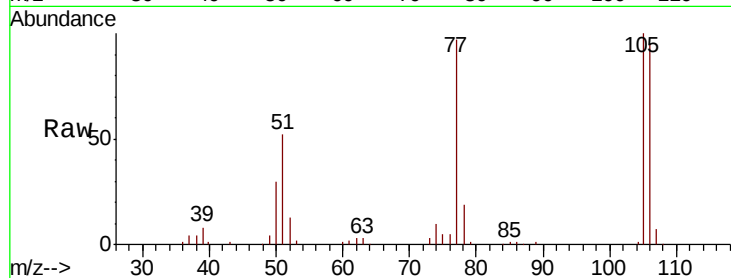
Tgt Ion: 77 Resp: 116062

Ion Ratio Lower Upper

77 100

105 102.9 78.6 118.6

106 98.0 74.8 114.8



#10

Phenol

Concen: 38.181 ng

RT: 6.62 min Scan# 770

Delta R.T. 0.01 min

Lab File: BF110304.D

Acq: 30 Oct 2018 15:47

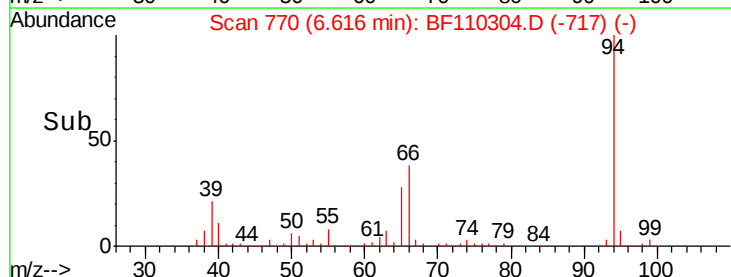
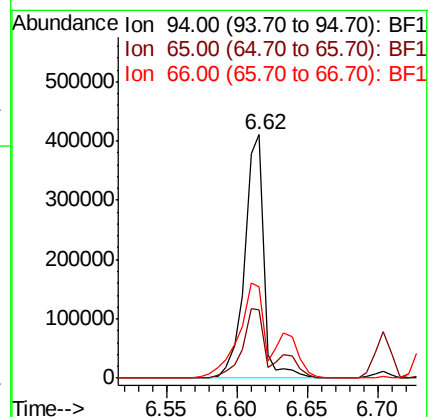
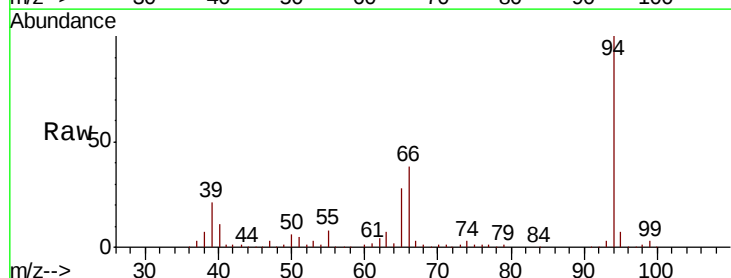
Tgt Ion: 94 Resp: 388785

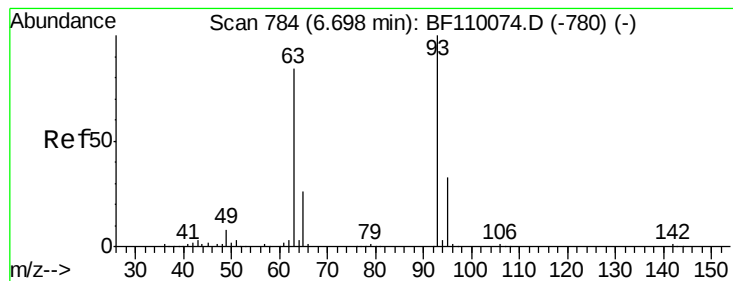
Ion Ratio Lower Upper

94 100

65 28.3 25.3 65.3

66 37.5 54.5 94.5#





#11

bis(2-Chloroethyl)ether

Concen: 29.008 ng

RT: 6.70 min Scan# 785

Delta R.T. 0.00 min

Lab File: BF110304.D

Acq: 30 Oct 2018 15:47

Instrument :

BNA_F

ClientSampleId :

RED-SHALEMS

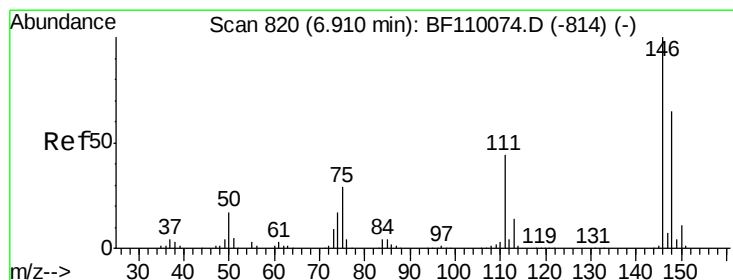
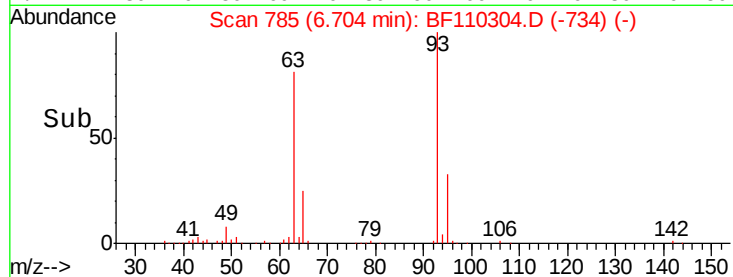
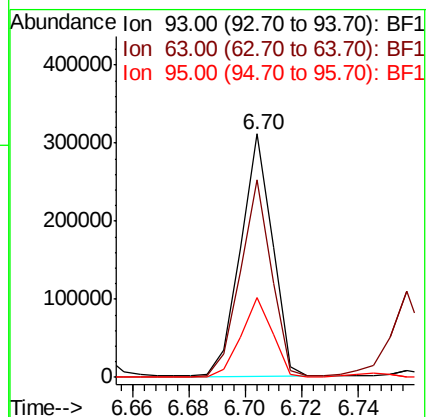
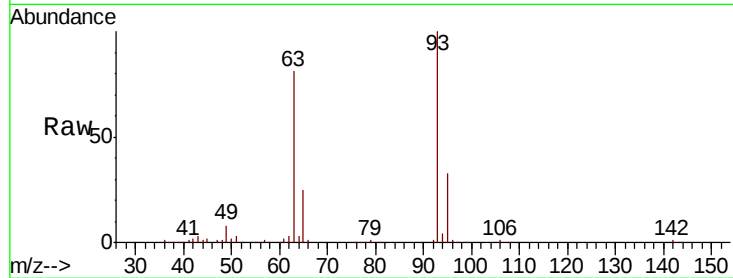
Tgt Ion: 93 Resp: 243019

Ion Ratio Lower Upper

93 100

63 81.2 53.4 93.4

95 33.0 12.1 52.1



#12

1,3-Dichlorobenzene

Concen: 29.896 ng

RT: 6.91 min Scan# 820

Delta R.T. 0.00 min

Lab File: BF110304.D

Acq: 30 Oct 2018 15:47

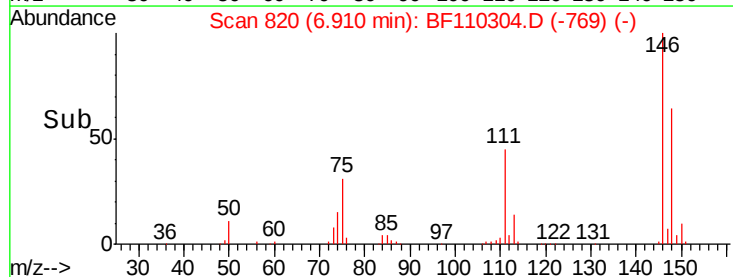
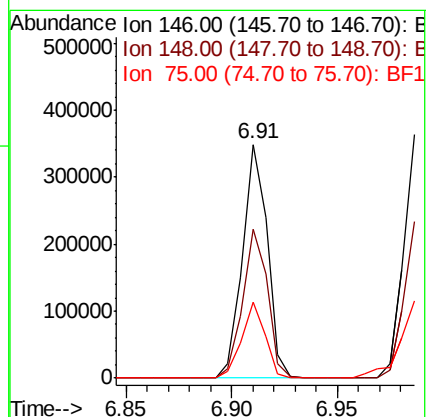
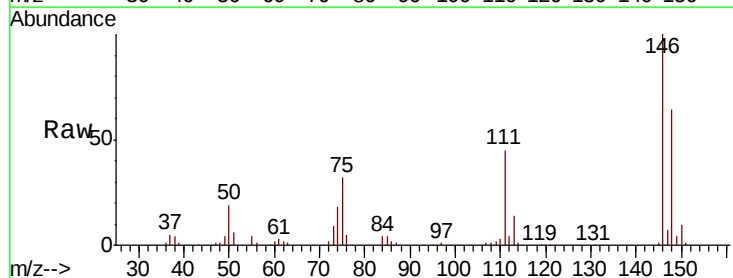
Tgt Ion: 146 Resp: 282496

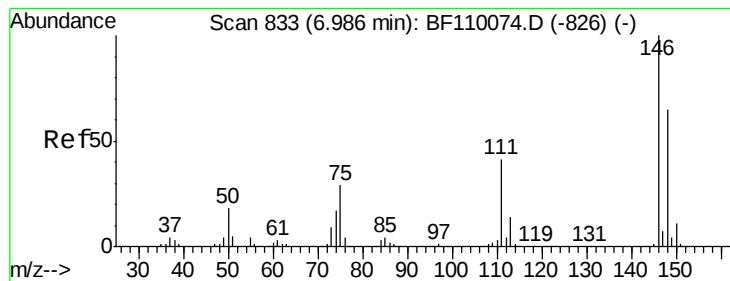
Ion Ratio Lower Upper

146 100

148 63.7 50.4 75.6

75 32.3 25.8 38.6





#13

1,4-Dichlorobenzene

Concen: 29.809 ng

RT: 6.99 min Scan# 833

Delta R.T. 0.00 min

Lab File: BF110304.D

Acq: 30 Oct 2018 15:47

Instrument :

BNA_F

ClientSampleId :

RED-SHALEMS

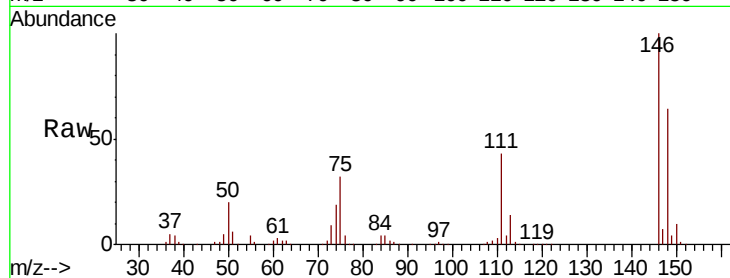
Tgt Ion:146 Resp: 284877

Ion Ratio Lower Upper

146 100

148 64.4 50.3 75.5

111 43.1 32.7 49.1

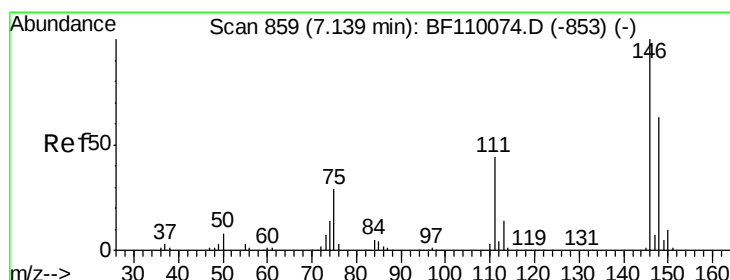
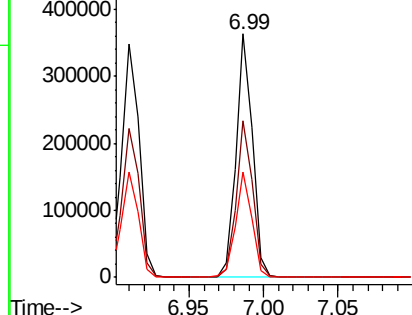
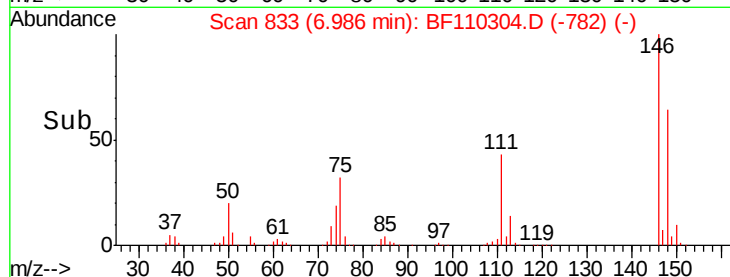


Abundance

Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 111.00 (110.70 to 111.70): E



#14

1,2-Dichlorobenzene

Concen: 30.312 ng

RT: 7.14 min Scan# 859

Delta R.T. 0.00 min

Lab File: BF110304.D

Acq: 30 Oct 2018 15:47

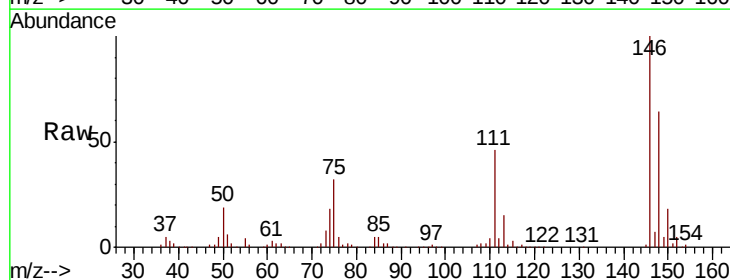
Tgt Ion:146 Resp: 268921

Ion Ratio Lower Upper

146 100

148 64.1 51.1 76.7

111 46.0 35.8 53.6

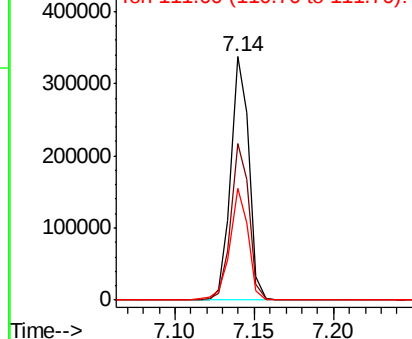
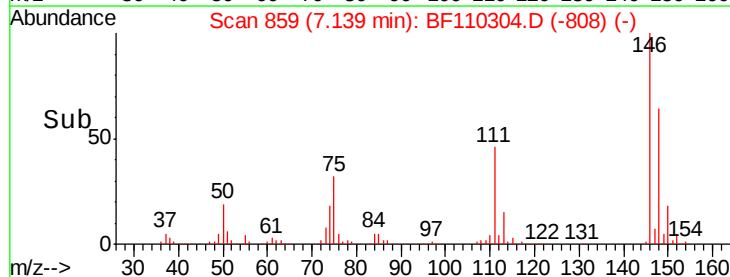


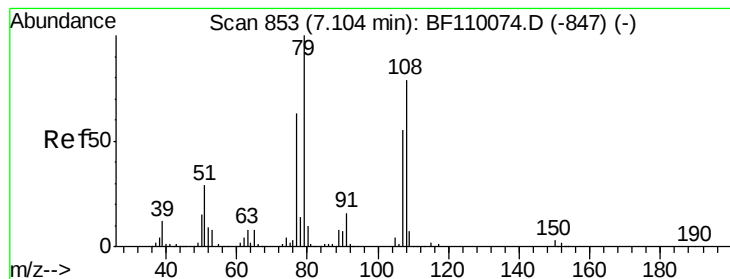
Abundance

Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 111.00 (110.70 to 111.70): E





#15

Benzyl Alcohol

Concen: 32.600 ng

RT: 7.11 min Scan# 854

Delta R.T. 0.00 min

Lab File: BF110304.D

Acq: 30 Oct 2018 15:47

Instrument :

BNA_F

ClientSampleId :

RED-SHALEMS

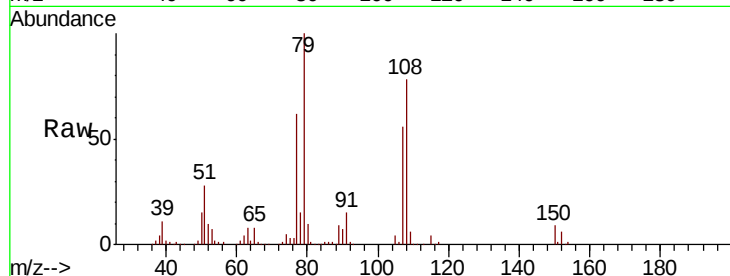
Tgt Ion: 79 Resp: 238852

Ion Ratio Lower Upper

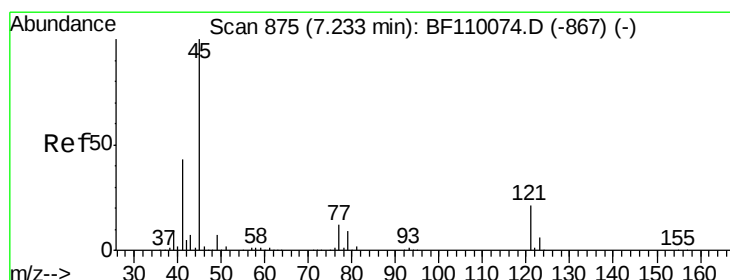
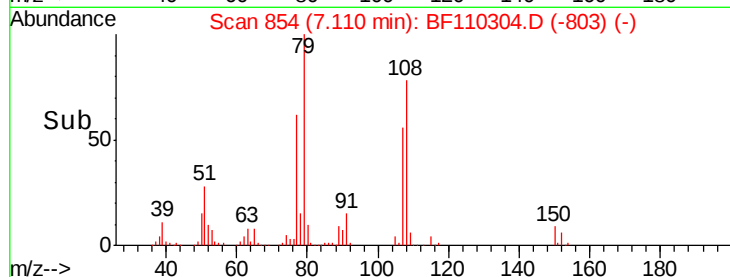
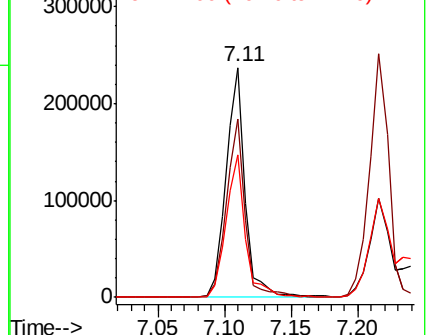
79 100

108 77.6 56.3 84.5

77 61.7 52.9 79.3



Abundance Ion 79.00 (78.70 to 79.70): BF1
Ion 108.00 (107.70 to 108.70): BF1
Ion 77.00 (76.70 to 77.70): BF1



#16

2,2'-oxybis(1-chloropropane)

Concen: 29.582 ng

RT: 7.24 min Scan# 876

Delta R.T. 0.00 min

Lab File: BF110304.D

Acq: 30 Oct 2018 15:47

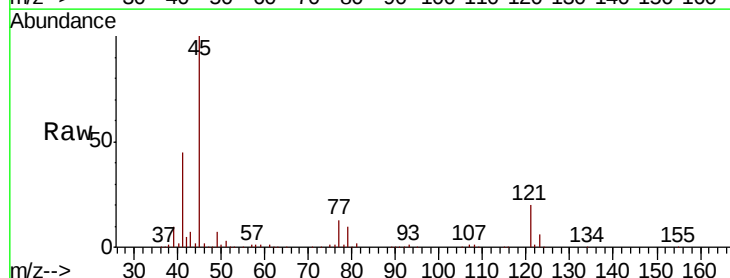
Tgt Ion: 45 Resp: 396242

Ion Ratio Lower Upper

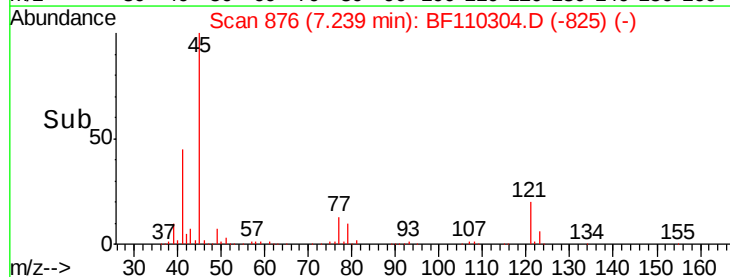
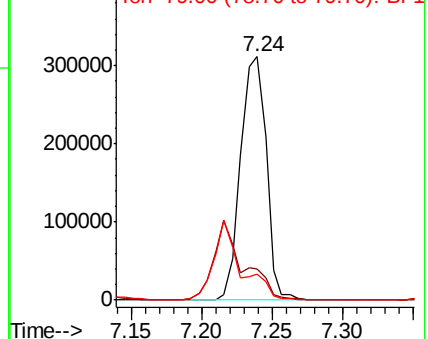
45 100

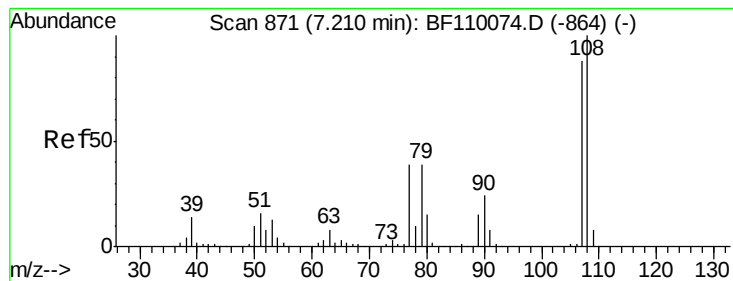
77 12.9 10.0 50.0

79 10.5 6.1 46.1



Abundance Ion 45.00 (44.70 to 45.70): BF1
Ion 77.00 (76.70 to 77.70): BF1
Ion 79.00 (78.70 to 79.70): BF1





#17

2-Methylphenol

Concen: 32.338 ng

RT: 7.22 min Scan# 872

Delta R.T. 0.00 min

Lab File: BF110304.D

Acq: 30 Oct 2018 15:47

Instrument :

BNA_F

ClientSampleId :

RED-SHALEMS

Tgt Ion:107 Resp: 221292

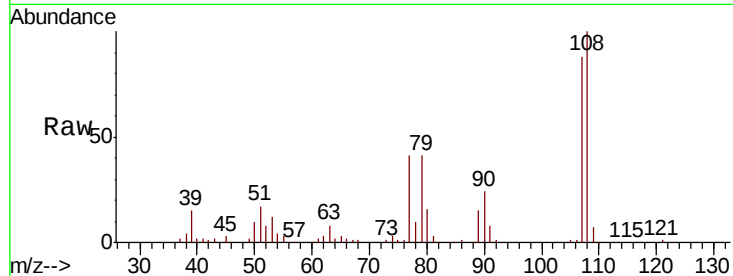
Ion Ratio Lower Upper

107 100

108 113.1 92.6 138.8

77 45.8 59.4 89.2#

79 46.2 54.0 81.0#



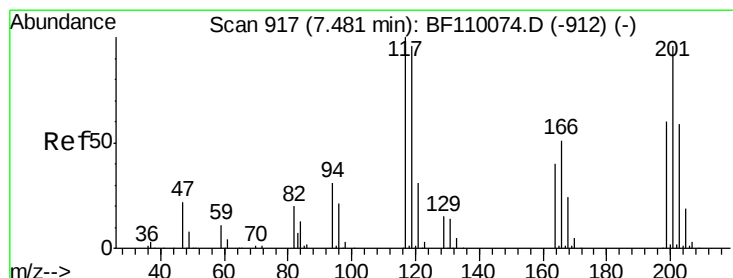
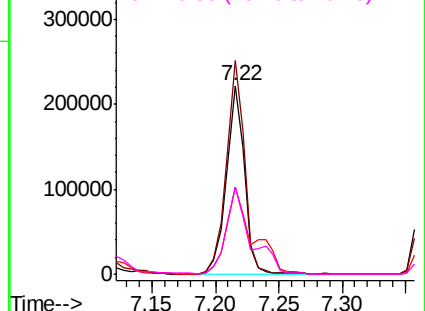
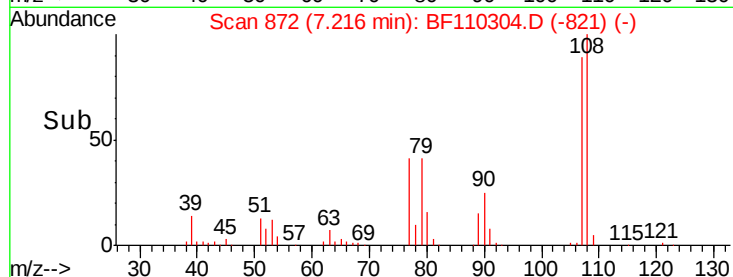
Abundance

Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF1

Ion 79.00 (78.70 to 79.70): BF1



#18

Hexachloroethane

Concen: 29.093 ng

RT: 7.48 min Scan# 917

Delta R.T. -0.00 min

Lab File: BF110304.D

Acq: 30 Oct 2018 15:47

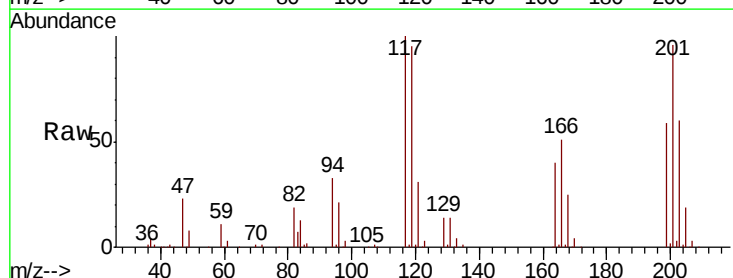
Tgt Ion:117 Resp: 101792

Ion Ratio Lower Upper

117 100

119 95.4 75.0 112.6

201 95.6 79.2 118.8

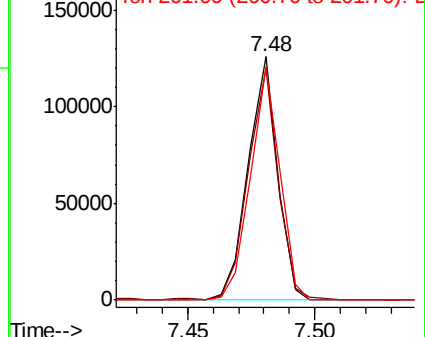
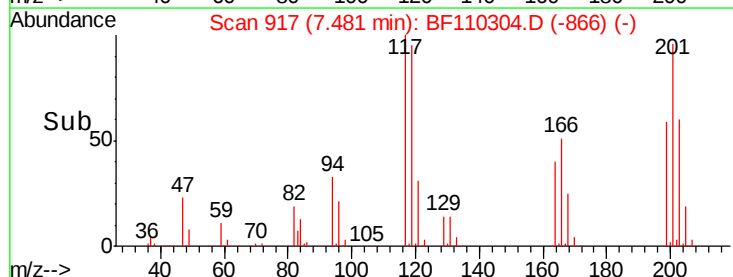


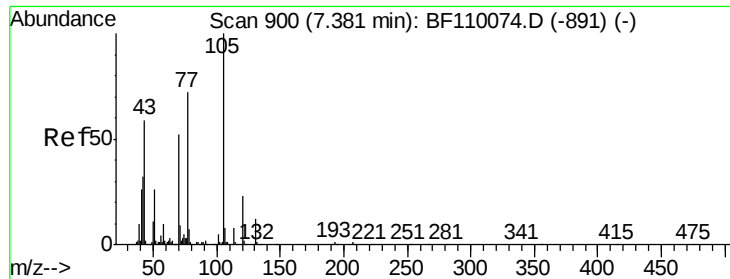
Abundance

Ion 117.00 (116.70 to 117.70): E

Ion 119.00 (118.70 to 119.70): E

Ion 201.00 (200.70 to 201.70): E

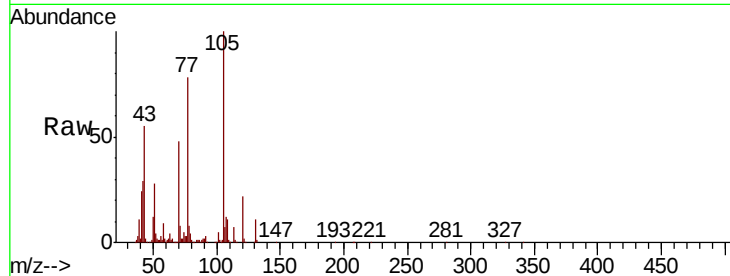




#19
n-Nitroso-di-n-propylamine
Concen: 30.085 ng
RT: 7.38 min Scan# 900
Delta R.T. 0.01 min
Lab File: BF110304.D
Acq: 30 Oct 2018 15:47

Instrument :
BNA_F
ClientSampleId :
RED-SHALEMS

Tgt Ion:	70	Resp:	183863
Ion	Ratio	Lower	Upper
70	100		
42	61.1	47.4	71.2
101	10.5	7.3	10.9
130	23.2	16.2	24.2



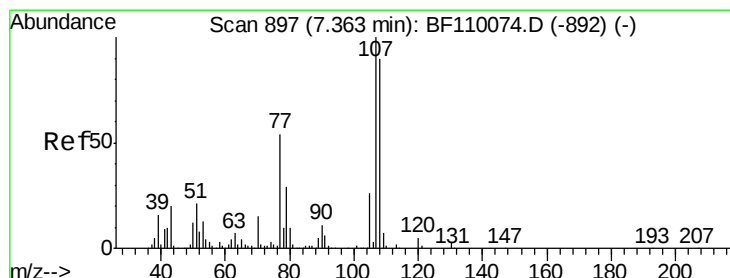
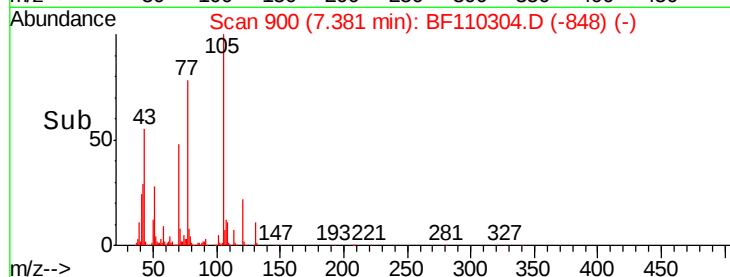
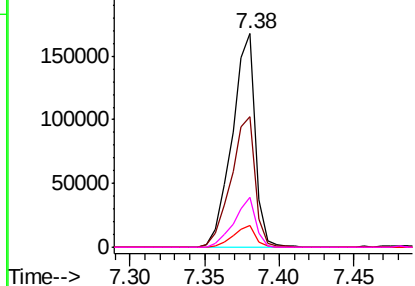
Abundance

Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

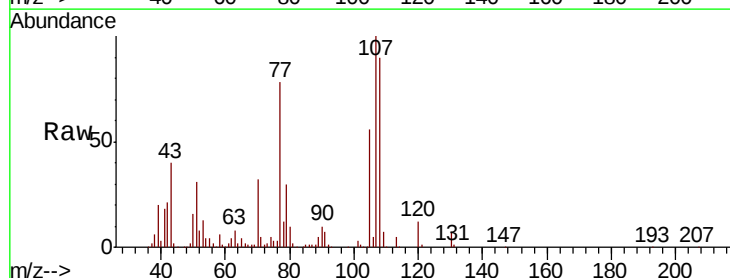
Ion 101.00 (100.70 to 101.70): E

Ion 130.00 (129.70 to 130.70): E



#20
3+4-Methylphenols
Concen: 31.641 ng
RT: 7.37 min Scan# 898
Delta R.T. 0.00 min
Lab File: BF110304.D
Acq: 30 Oct 2018 15:47

Tgt Ion:	107	Resp:	279884
Ion	Ratio	Lower	Upper
107	100		
108	89.9	71.4	111.4
77	77.9	47.3	87.3
79	29.8	10.9	50.9



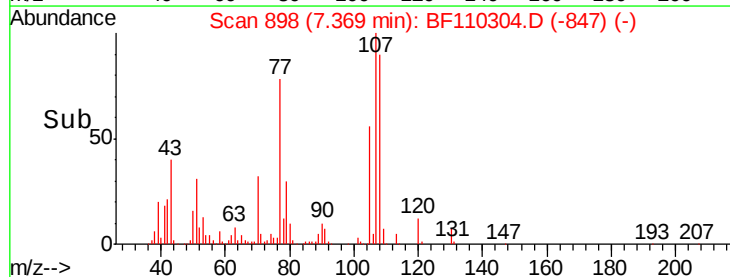
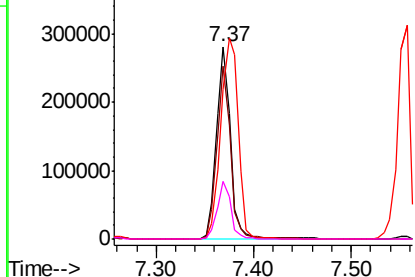
Abundance

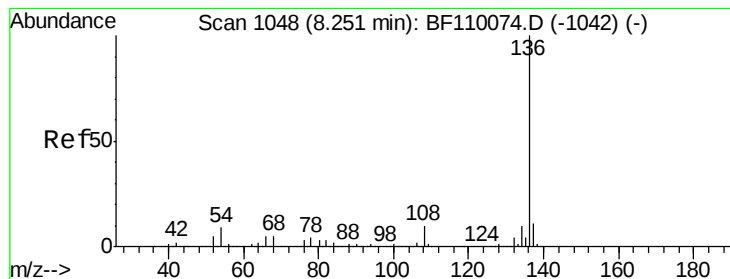
Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF1

Ion 79.00 (78.70 to 79.70): BF1





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.26 min Scan# 1049

Delta R.T. 0.01 min

Lab File: BF110304.D

Acq: 30 Oct 2018 15:47

Instrument :

BNA_F

ClientSampleId :

RED-SHALEMS

Tgt Ion:136 Resp: 488796

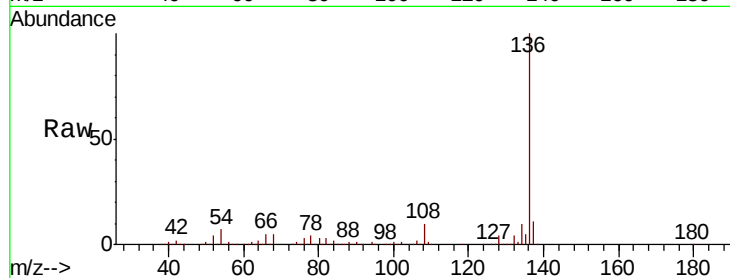
Ion Ratio Lower Upper

136 100

137 10.6 8.8 13.2

54 6.9 5.4 8.2

68 5.0 4.2 6.2

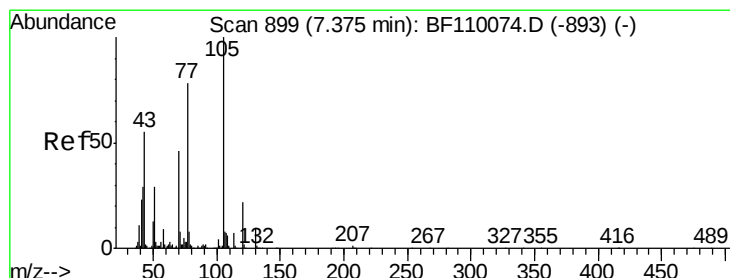
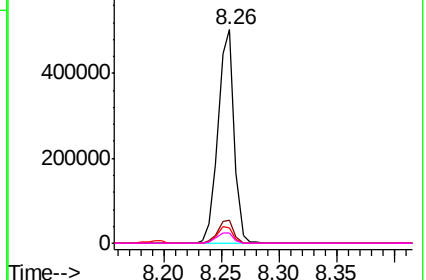
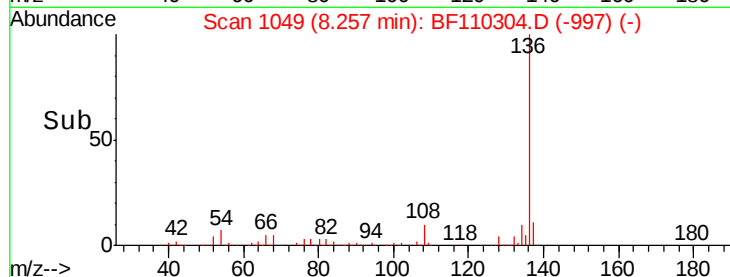


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#22

Acetophenone

Concen: 32.978 ng

RT: 7.38 min Scan# 900

Delta R.T. 0.00 min

Lab File: BF110304.D

Acq: 30 Oct 2018 15:47

Tgt Ion:105 Resp: 371426

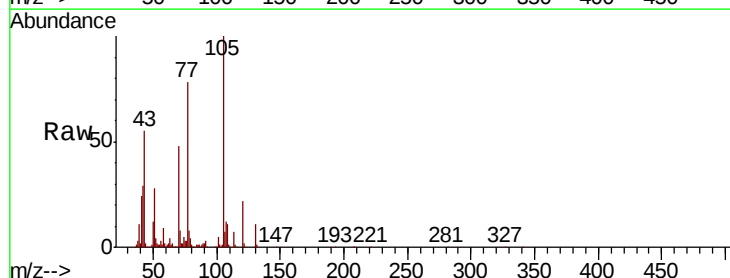
Ion Ratio Lower Upper

105 100

71 7.5 5.2 7.8

51 27.7 21.8 32.8

120 21.7 17.0 25.4

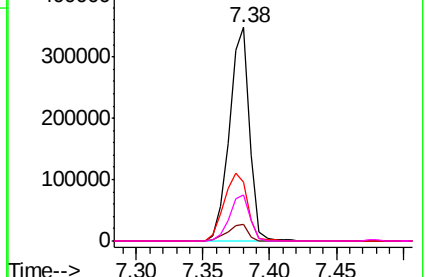
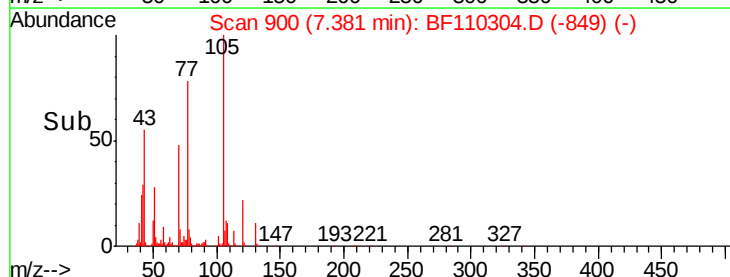


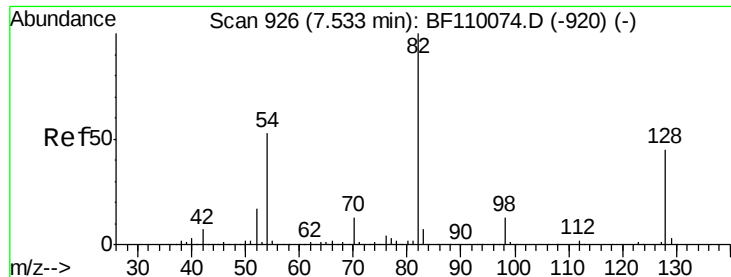
Abundance Ion 105.00 (104.70 to 105.70): E

Ion 71.00 (70.70 to 71.70): BF1

Ion 51.00 (50.70 to 51.70): BF1

Ion 120.00 (119.70 to 120.70): E

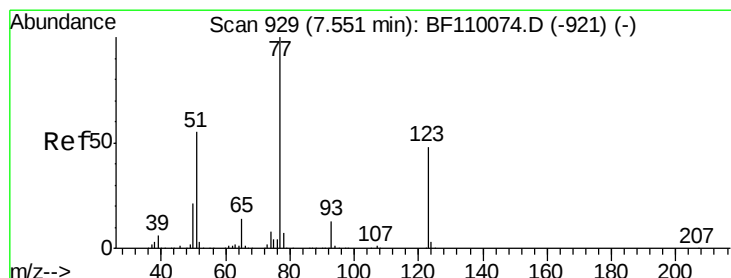
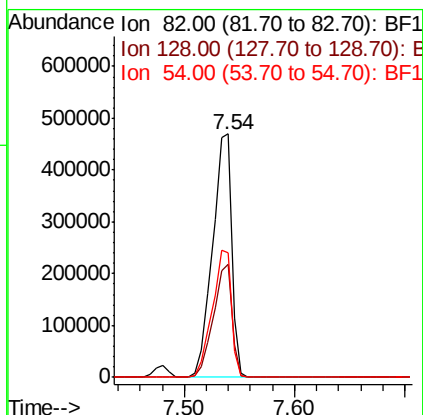
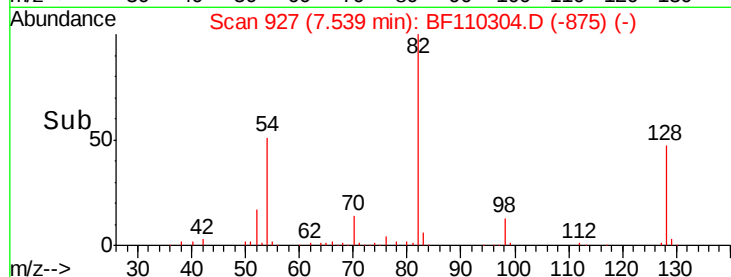
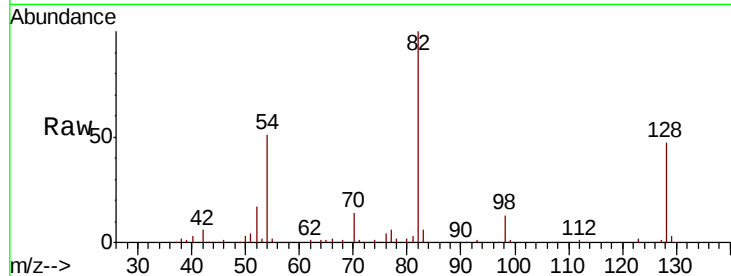




#23
 Nitrobenzene-d5
 Concen: 68.097 ng
 RT: 7.54 min Scan# 927
 Delta R.T. 0.01 min
 Lab File: BF110304.D
 Acq: 30 Oct 2018 15:47

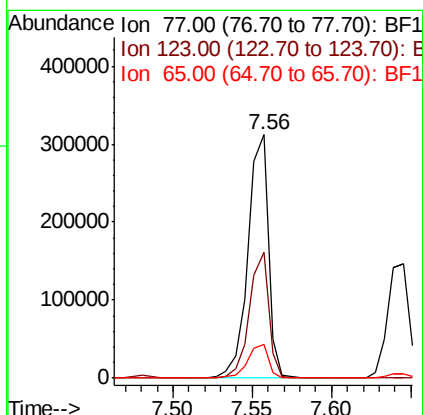
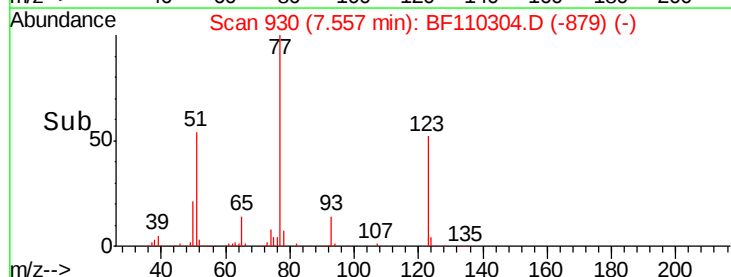
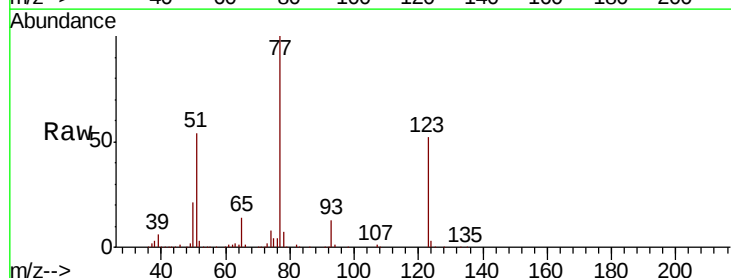
Instrument :
 BNA_F
 ClientSampleId :
 RED-SHALEMS

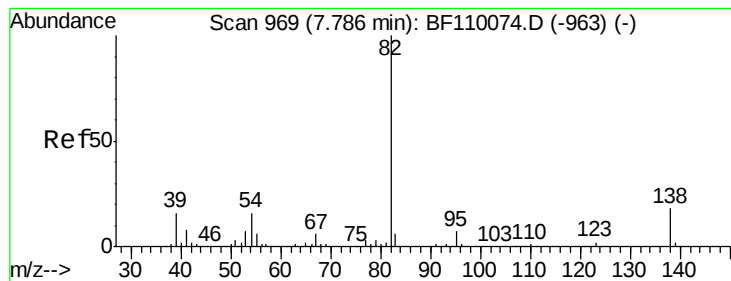
Tgt Ion: 82 Resp: 561181
 Ion Ratio Lower Upper
 82 100
 128 46.6 34.2 51.2
 54 51.1 38.6 58.0



#24
 Nitrobenzene
 Concen: 32.414 ng
 RT: 7.56 min Scan# 930
 Delta R.T. 0.00 min
 Lab File: BF110304.D
 Acq: 30 Oct 2018 15:47

Tgt Ion: 77 Resp: 275780
 Ion Ratio Lower Upper
 77 100
 123 51.8 35.7 53.5
 65 13.8 10.7 16.1





#25

Isophorone

Concen: 35.626 ng

RT: 7.79 min Scan# 969

Delta R.T. 0.00 min

Lab File: BF110304.D

Acq: 30 Oct 2018 15:47

Instrument :

BNA_F

ClientSampleId :

RED-SHALEMS

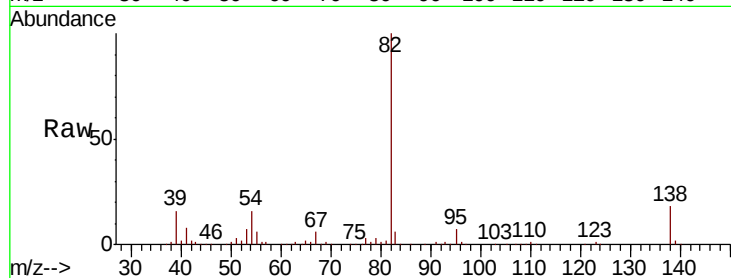
Tgt Ion: 82 Resp: 500463

Ion Ratio Lower Upper

82 100

95 6.9 5.7 8.5

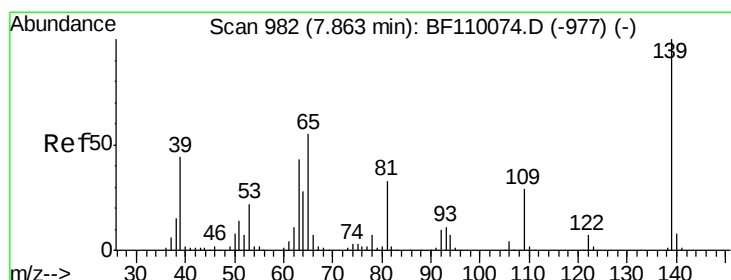
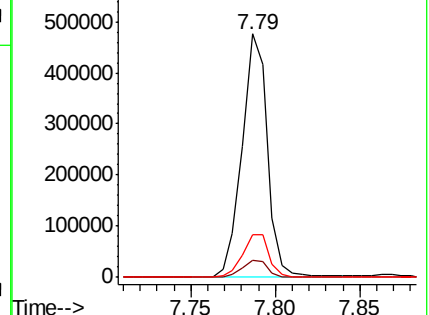
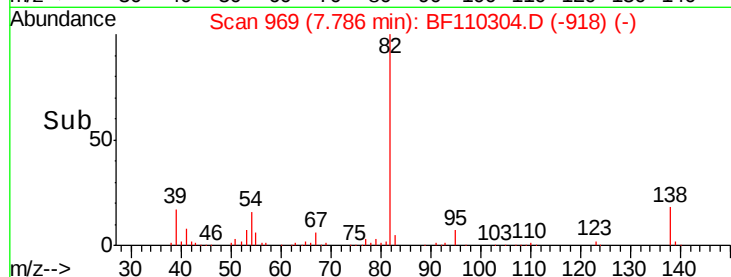
138 17.6 13.2 19.8



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1



#26

2-Nitrophenol

Concen: 35.114 ng

RT: 7.87 min Scan# 983

Delta R.T. 0.00 min

Lab File: BF110304.D

Acq: 30 Oct 2018 15:47

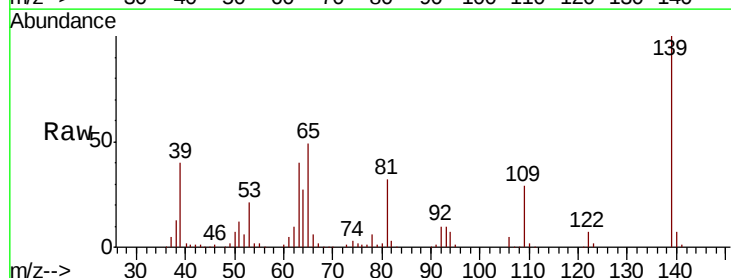
Tgt Ion: 139 Resp: 142166

Ion Ratio Lower Upper

139 100

109 29.2 25.0 37.6

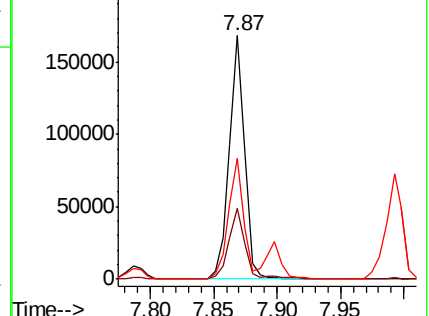
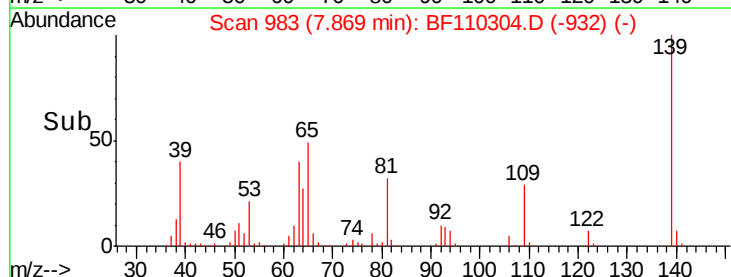
65 49.4 44.0 66.0

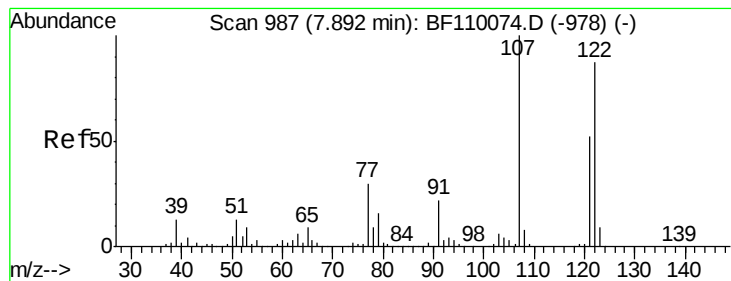


Abundance Ion 139.00 (138.70 to 139.70): BF1

Ion 109.00 (108.70 to 109.70): BF1

Ion 65.00 (64.70 to 65.70): BF1





#27

2,4-Dimethylphenol

Concen: 36.064 ng

RT: 7.90 min Scan# 988

Delta R.T. 0.00 min

Lab File: BF110304.D

Acq: 30 Oct 2018 15:47

Instrument :

BNA_F

ClientSampleId :

RED-SHALEMS

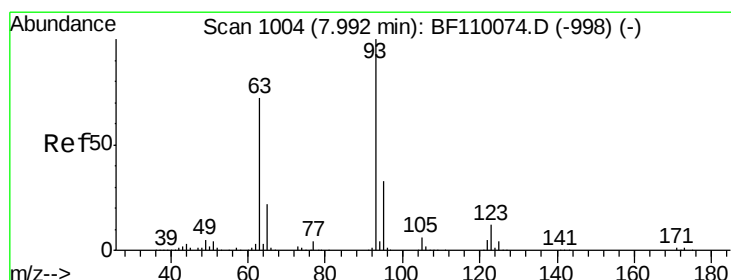
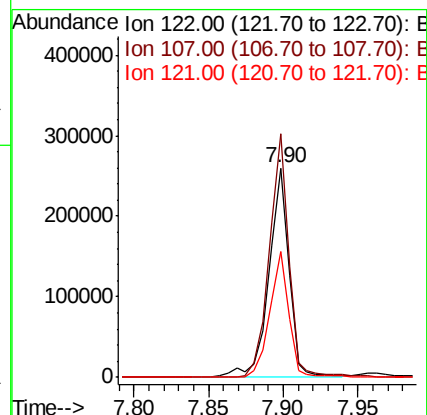
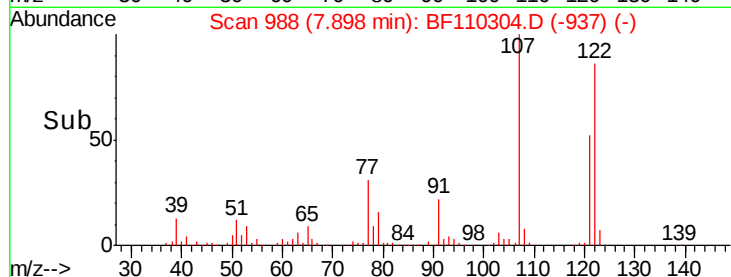
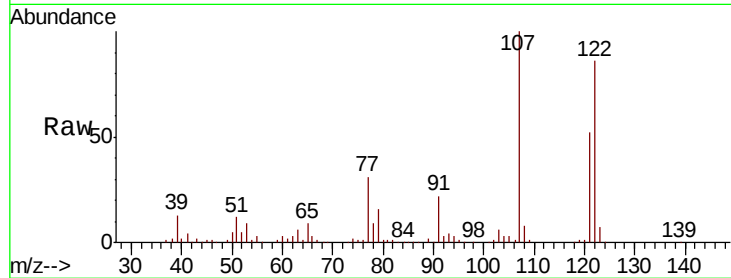
Tgt Ion:122 Resp: 242084

Ion Ratio Lower Upper

122 100

107 116.2 92.5 138.7

121 60.2 45.8 68.8



#28

bis(2-Chloroethoxy)methane

Concen: 33.640 ng

RT: 7.99 min Scan# 1004

Delta R.T. 0.00 min

Lab File: BF110304.D

Acq: 30 Oct 2018 15:47

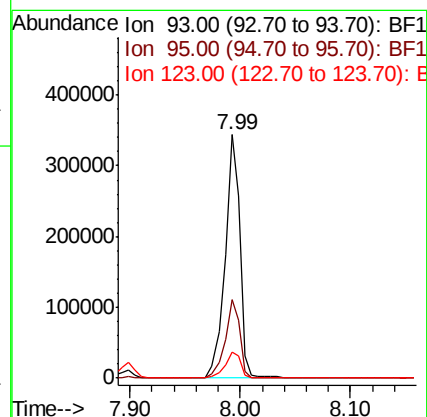
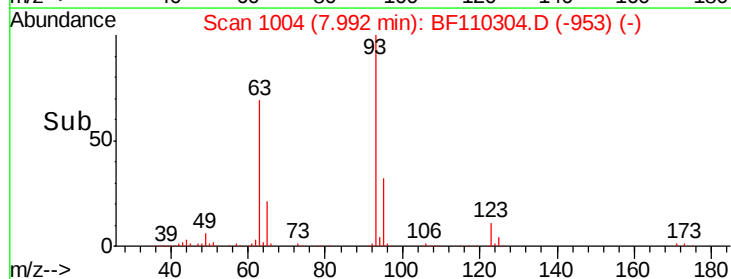
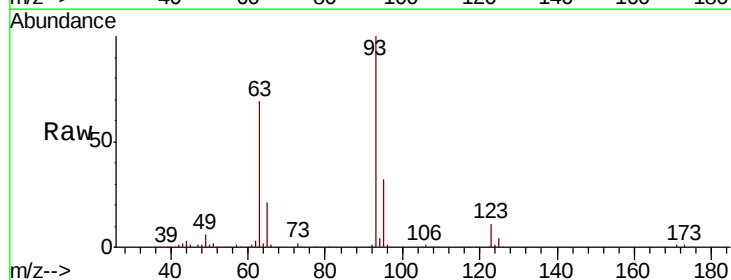
Tgt Ion: 93 Resp: 321025

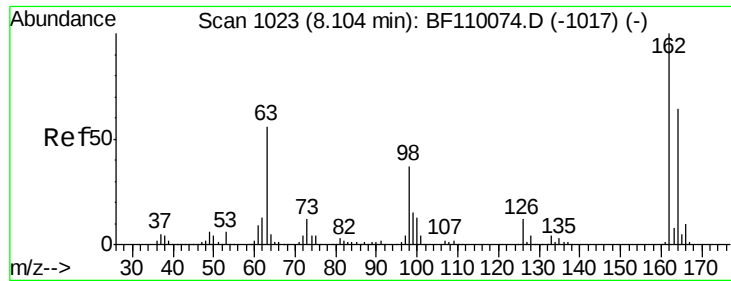
Ion Ratio Lower Upper

93 100

95 32.1 26.4 39.6

123 10.8 9.0 13.6

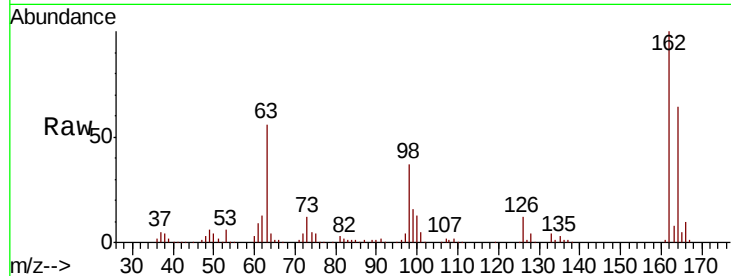




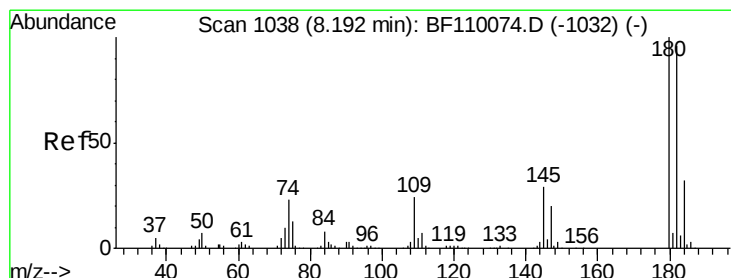
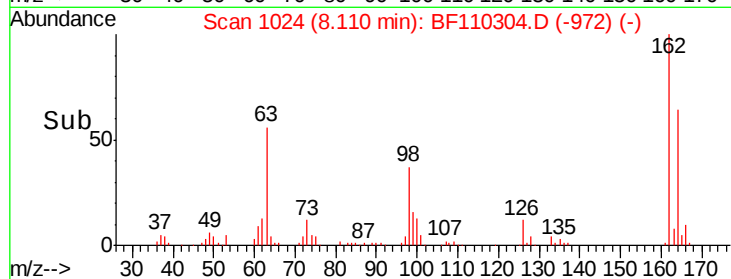
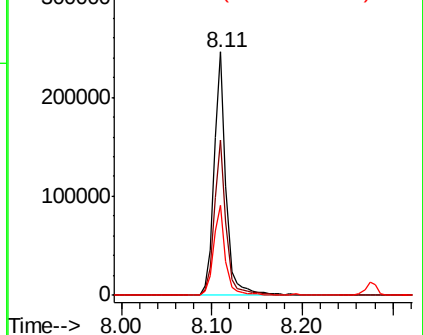
#29
 2,4-Dichlorophenol
 Concen: 33.544 ng
 RT: 8.11 min Scan# 1024
 Delta R.T. 0.01 min
 Lab File: BF110304.D
 Acq: 30 Oct 2018 15:47

Instrument :
 BNA_F
 ClientSampleId :
 RED-SHALEMS

Tgt Ion:162 Resp: 227482
 Ion Ratio Lower Upper
 162 100
 164 63.7 44.6 84.6
 98 37.2 17.4 57.4

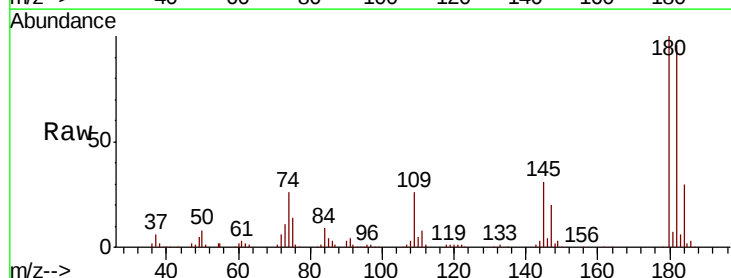


Abundance Ion 162.00 (161.70 to 162.70): E
 Ion 164.00 (163.70 to 164.70): E
 Ion 98.00 (97.70 to 98.70): BF1

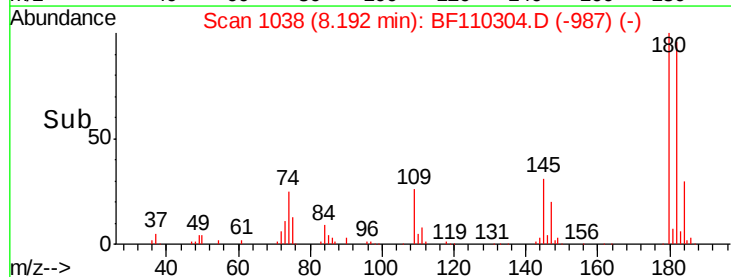
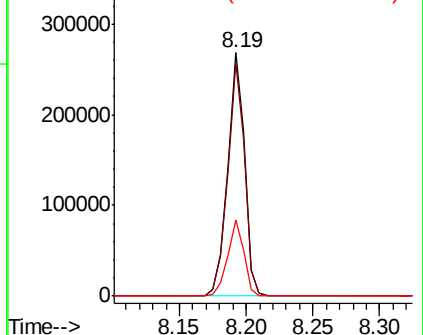


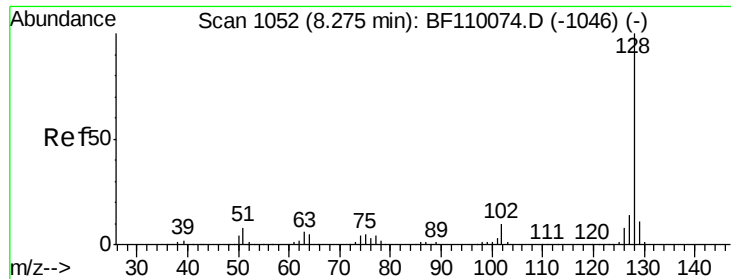
#30
 1,2,4-Trichlorobenzene
 Concen: 31.971 ng
 RT: 8.19 min Scan# 1038
 Delta R.T. 0.00 min
 Lab File: BF110304.D
 Acq: 30 Oct 2018 15:47

Tgt Ion:180 Resp: 242862
 Ion Ratio Lower Upper
 180 100
 182 95.6 80.3 120.5
 145 31.2 25.4 38.0



Abundance Ion 180.00 (179.70 to 180.70): E
 Ion 182.00 (181.70 to 182.70): E
 Ion 145.00 (144.70 to 145.70): E

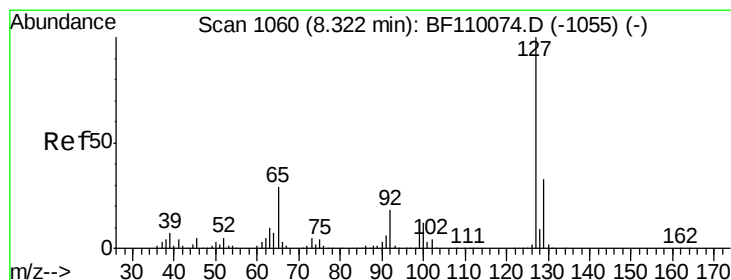
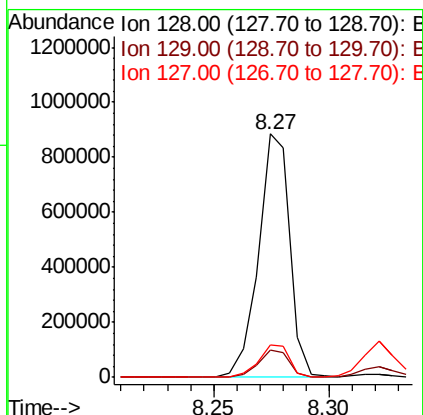
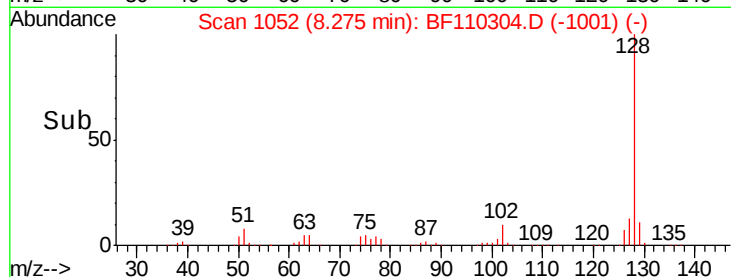
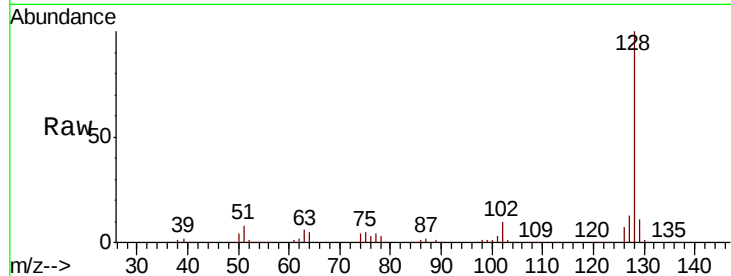




#31
Naphthalene
Concen: 37.101 ng
RT: 8.27 min Scan# 1052
Delta R.T. -0.00 min
Lab File: BF110304.D
Acq: 30 Oct 2018 15:47

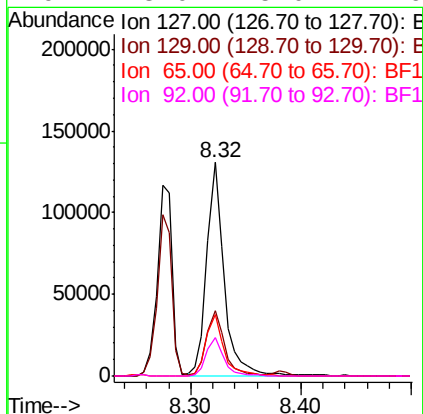
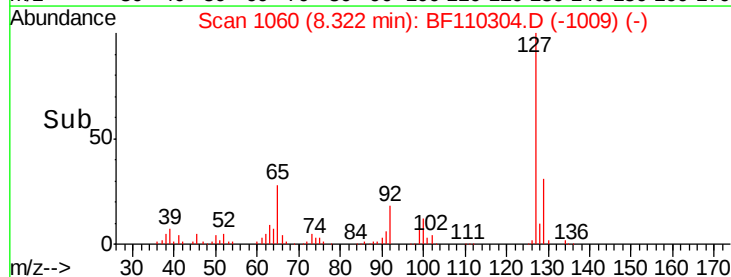
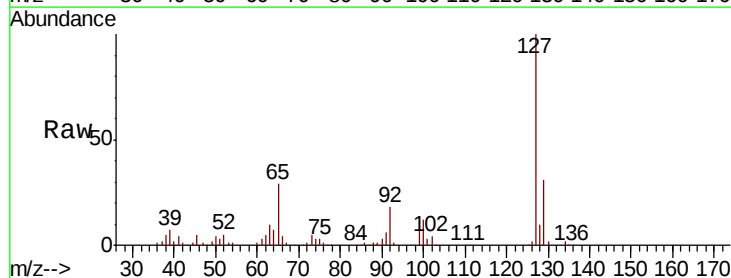
Instrument :
BNA_F
ClientSampleId :
RED-SHALEMS

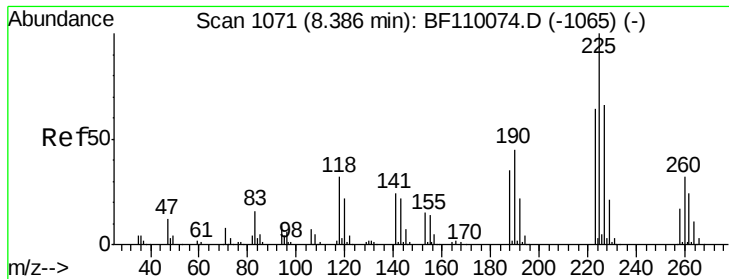
Tgt Ion:128 Resp: 835822
Ion Ratio Lower Upper
128 100
129 11.2 8.8 13.2
127 13.2 10.8 16.2



#33
4-Chloroaniline
Concen: 13.867 ng
RT: 8.32 min Scan# 1060
Delta R.T. 0.00 min
Lab File: BF110304.D
Acq: 30 Oct 2018 15:47

Tgt Ion:127 Resp: 140593
Ion Ratio Lower Upper
127 100
129 30.9 26.0 39.0
65 28.8 25.1 37.7
92 18.0 15.0 22.6

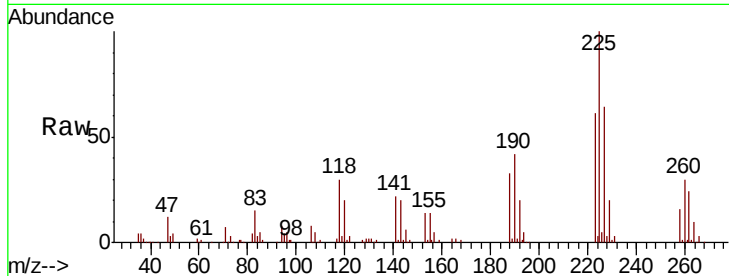




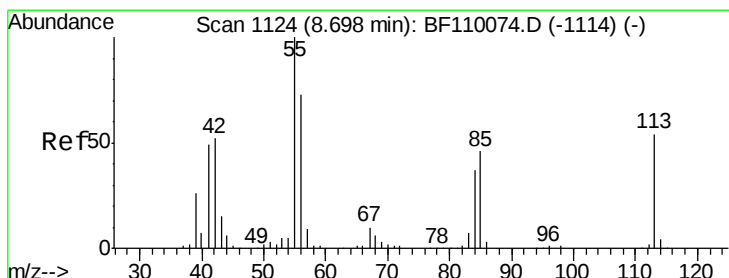
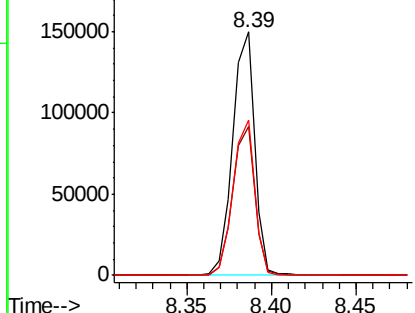
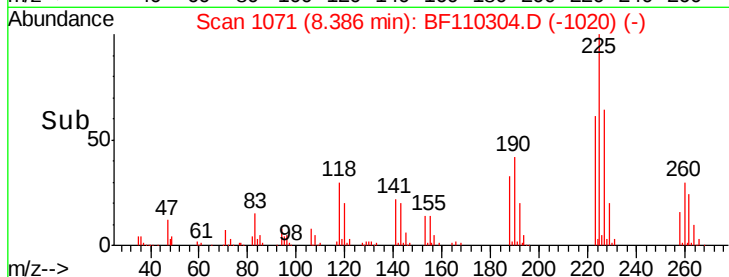
#34
Hexachlorobutadiene
Concen: 32.007 ng
RT: 8.39 min Scan# 1071
Delta R.T. 0.00 min
Lab File: BF110304.D
Acq: 30 Oct 2018 15:47

Instrument :
BNA_F
ClientSampleId :
RED-SHALEMS

Tgt Ion: 225 Resp: 134998
Ion Ratio Lower Upper
225 100
223 61.2 51.4 77.2
227 63.7 51.0 76.6

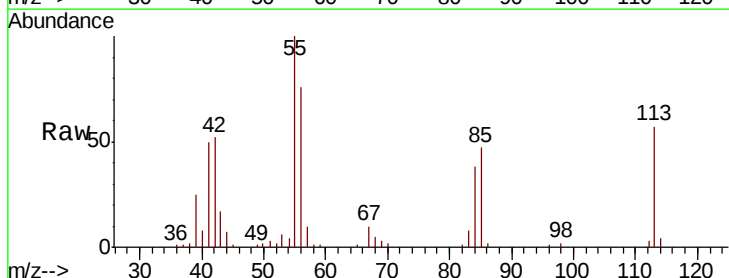


Abundance Ion 225.00 (224.70 to 225.70): E
Ion 223.00 (222.70 to 223.70): E
Ion 227.00 (226.70 to 227.70): E

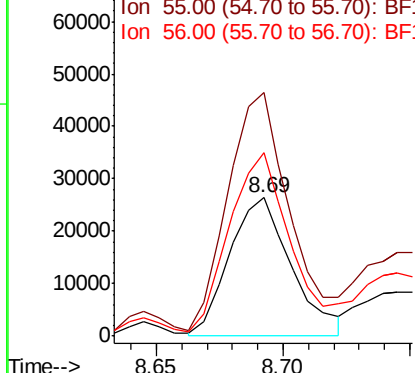
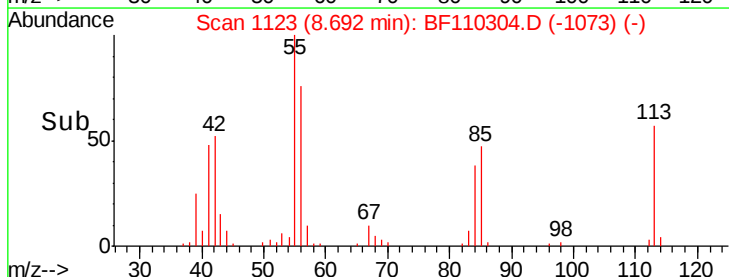


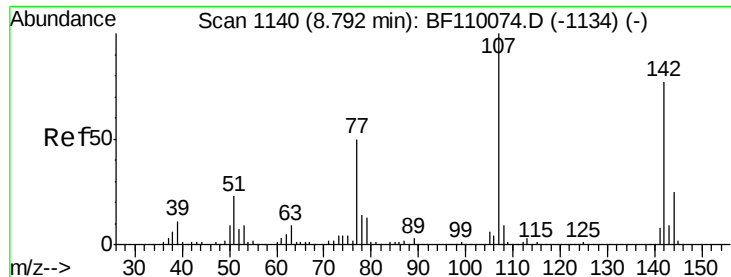
#35
Caprolactam
Concen: 19.062 ng
RT: 8.69 min Scan# 1123
Delta R.T. -0.01 min
Lab File: BF110304.D
Acq: 30 Oct 2018 15:47

Tgt Ion: 113 Resp: 45058
Ion Ratio Lower Upper
113 100
55 176.0 142.8 182.8
56 133.1 105.0 145.0



Abundance Ion 113.00 (112.70 to 113.70): E
Ion 55.00 (54.70 to 55.70): BF1
Ion 56.00 (55.70 to 56.70): BF1

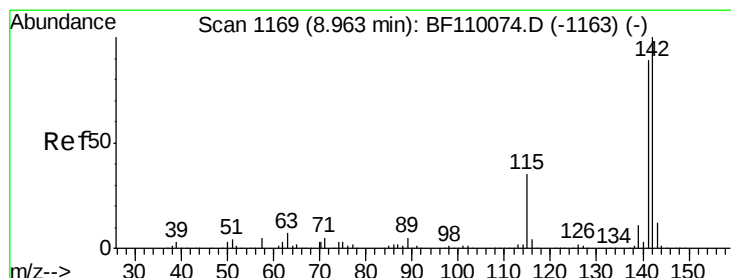
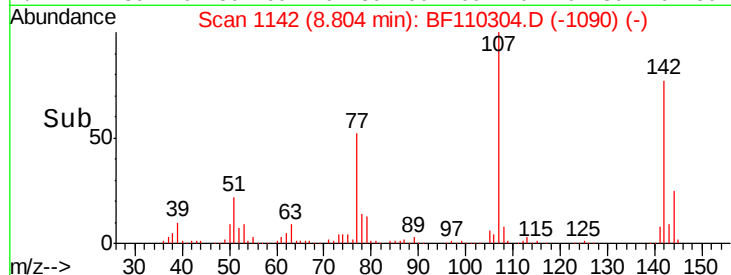
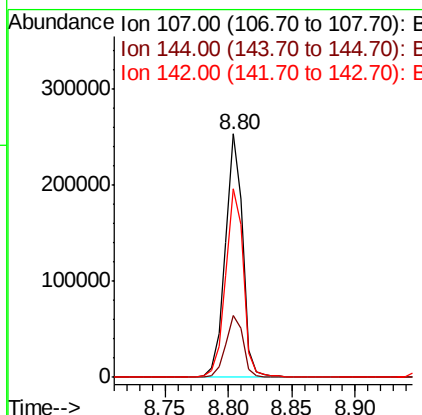
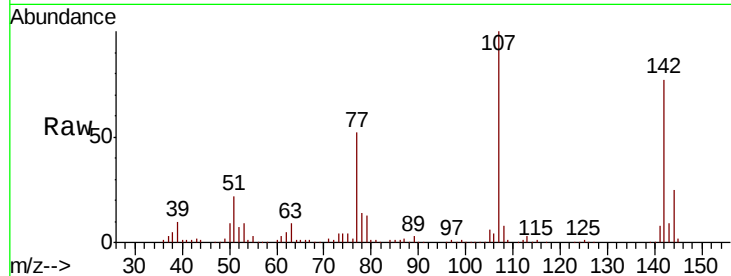




#36
 4-Chloro-3-methylphenol
 Concen: 32.703 ng
 RT: 8.80 min Scan# 1142
 Delta R.T. 0.01 min
 Lab File: BF110304.D
 Acq: 30 Oct 2018 15:47

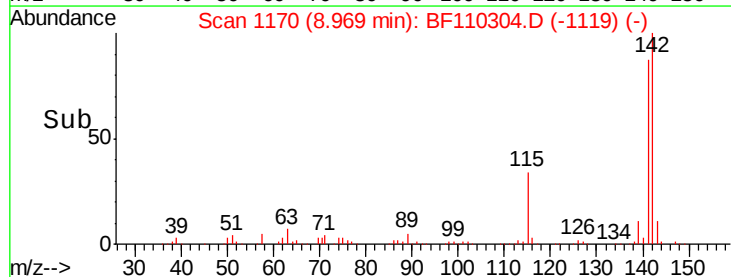
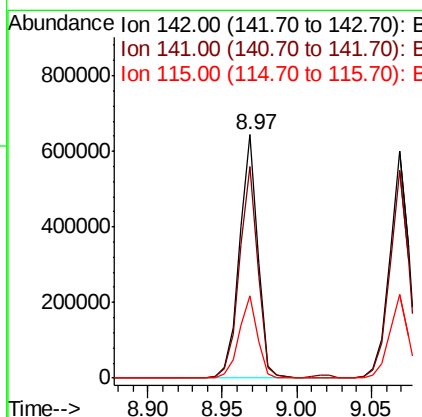
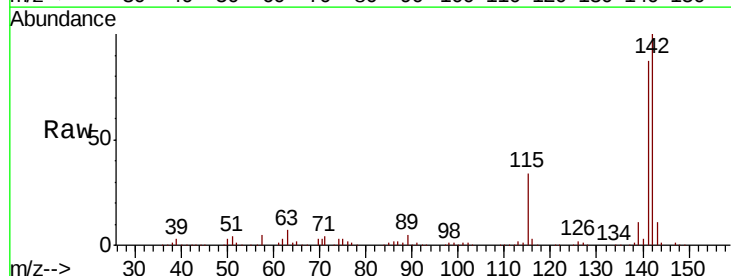
Instrument :
 BNA_F
 ClientSampleId :
 RED-SHALEMS

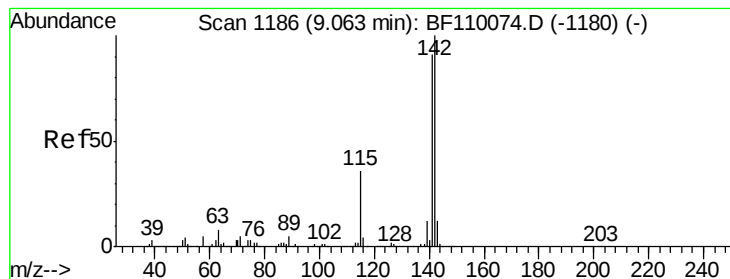
Tgt Ion:107 Resp: 239822
 Ion Ratio Lower Upper
 107 100
 144 25.3 20.0 30.0
 142 77.5 59.7 89.5



#37
 2-Methylnaphthalene
 Concen: 37.025 ng
 RT: 8.97 min Scan# 1170
 Delta R.T. 0.00 min
 Lab File: BF110304.D
 Acq: 30 Oct 2018 15:47

Tgt Ion:142 Resp: 551863
 Ion Ratio Lower Upper
 142 100
 141 87.2 71.4 107.2
 115 33.7 28.7 43.1





#38

1-Methylnaphthalene

Concen: 35.652 ng

RT: 9.07 min Scan# 1187

Delta R.T. 0.00 min

Lab File: BF110304.D

Acq: 30 Oct 2018 15:47

Instrument :

BNA_F

ClientSampleId :

RED-SHALEMS

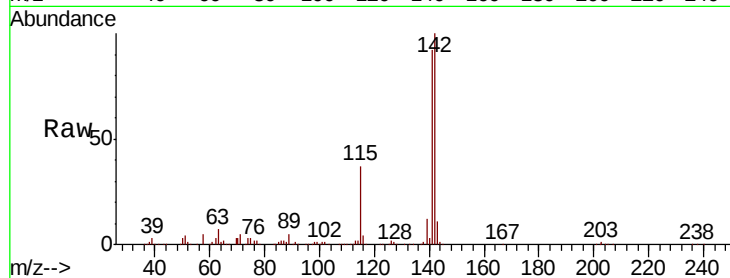
Tgt Ion:142 Resp: 513527

Ion Ratio Lower Upper

142 100

141 91.9 74.2 111.4

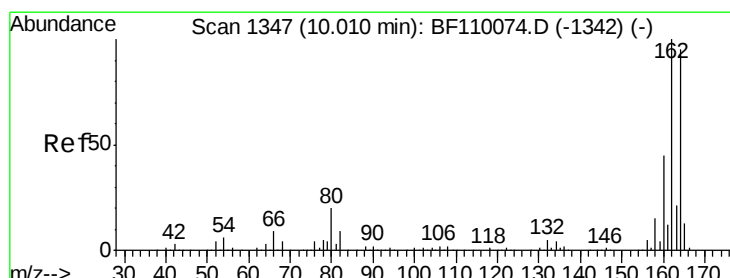
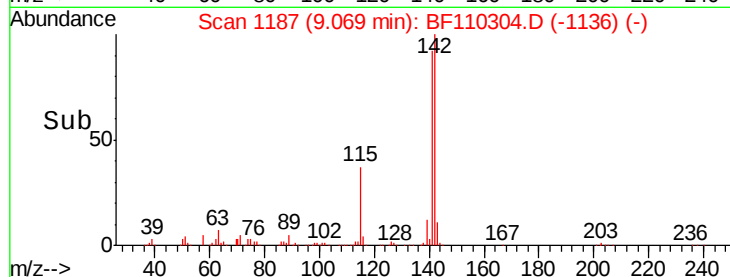
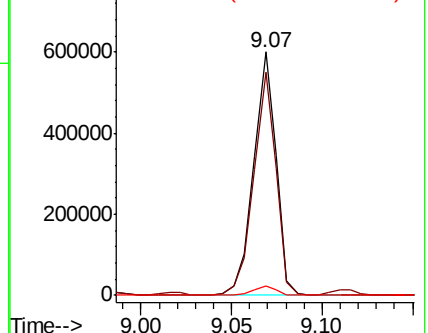
116 3.7 2.6 4.0



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.02 min Scan# 1348

Delta R.T. 0.00 min

Lab File: BF110304.D

Acq: 30 Oct 2018 15:47

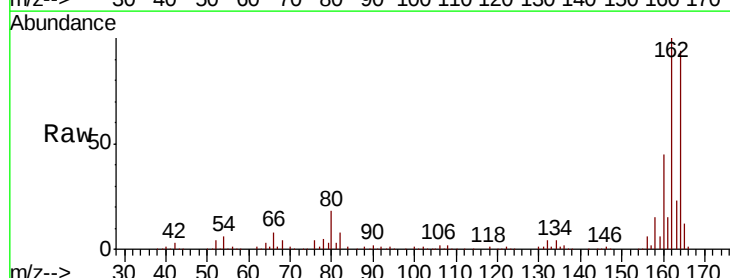
Tgt Ion:164 Resp: 217225

Ion Ratio Lower Upper

164 100

162 106.1 83.0 124.6

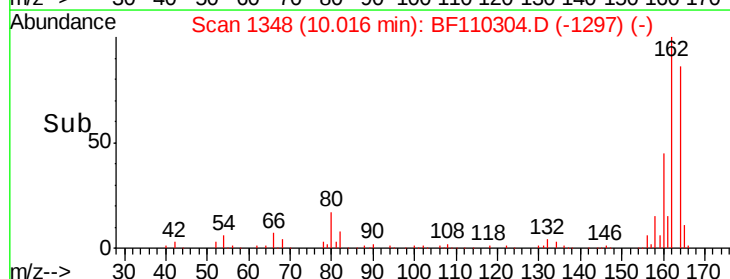
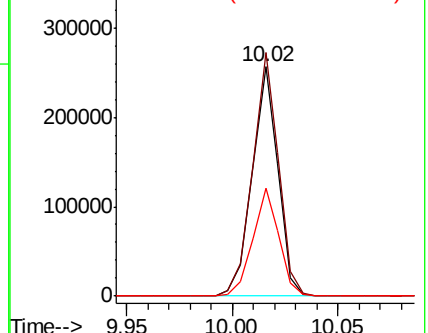
160 47.3 37.0 55.6

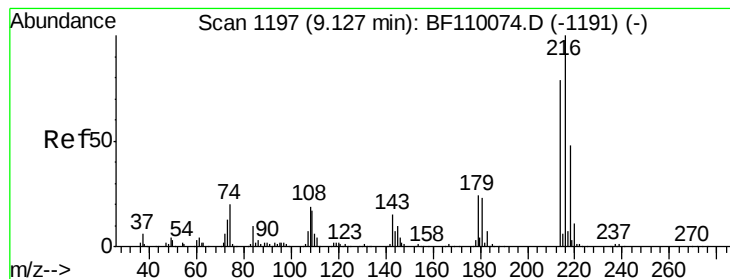


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#40

1,2,4,5-Tetrachlorobenzene

Concen: 33.715 ng

RT: 9.13 min Scan# 1198

Delta R.T. 0.00 min

Lab File: BF110304.D

Acq: 30 Oct 2018 15:47

Instrument :

BNA_F

ClientSampleId :

RED-SHALEMS

Tgt Ion:216 Resp: 228190

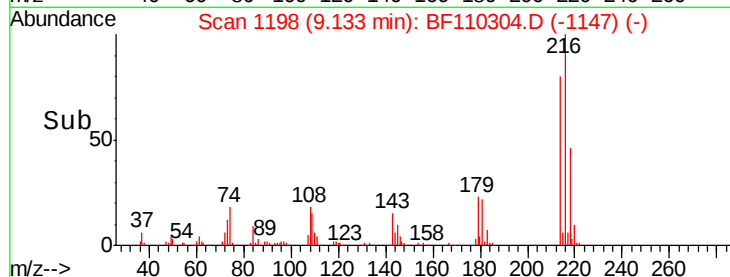
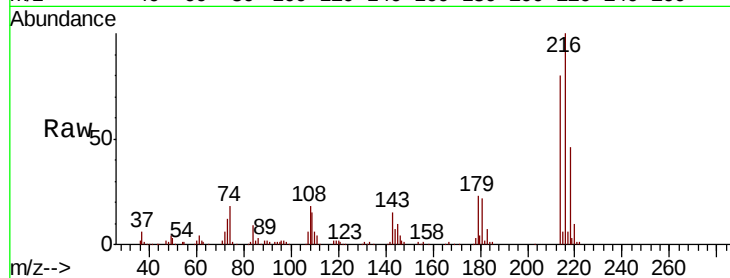
Ion Ratio Lower Upper

216 100

214 79.5 63.8 95.6

179 22.6 16.6 25.0

108 19.0 15.1 22.7

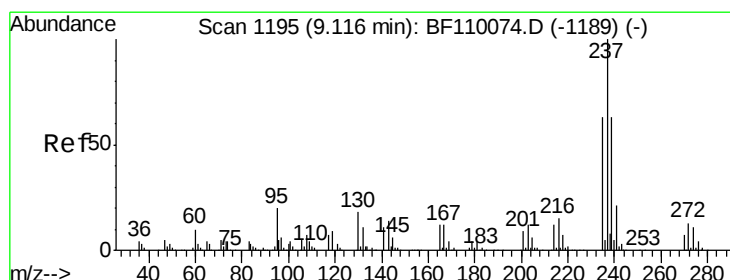
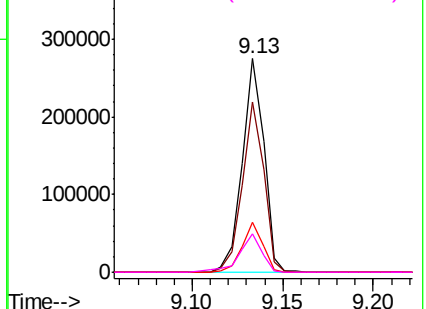


Abundance Ion 216.00 (215.70 to 216.70): E

Ion 214.00 (213.70 to 214.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 108.00 (107.70 to 108.70): E



#41

Hexachlorocyclopentadiene

Concen: 28.696 ng

RT: 9.12 min Scan# 1195

Delta R.T. 0.00 min

Lab File: BF110304.D

Acq: 30 Oct 2018 15:47

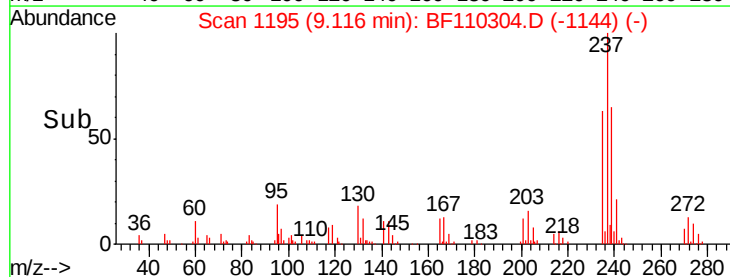
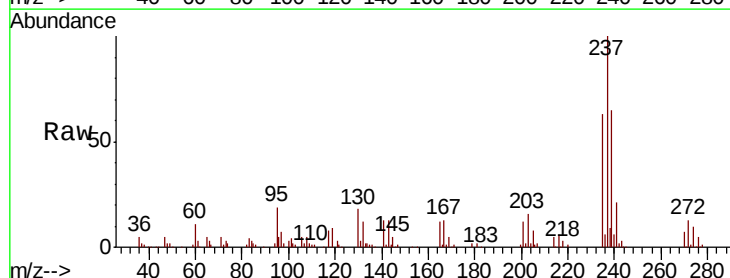
Tgt Ion:237 Resp: 99312

Ion Ratio Lower Upper

237 100

235 63.1 43.1 83.1

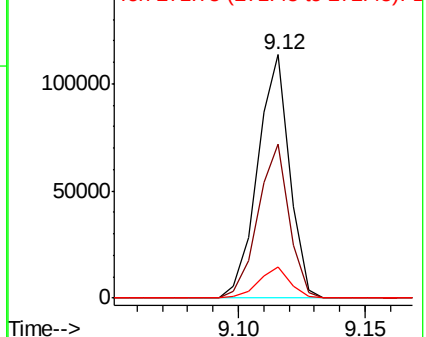
272 12.6 0.0 32.6

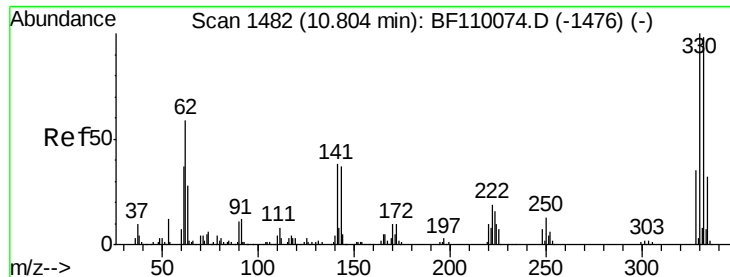


Abundance Ion 236.80 (236.50 to 237.50): E

Ion 234.90 (234.60 to 235.60): E

Ion 271.75 (271.45 to 272.45): E

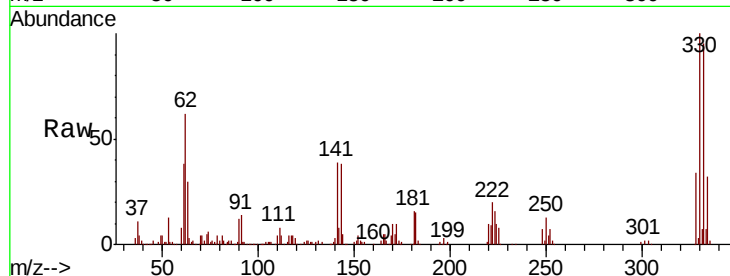




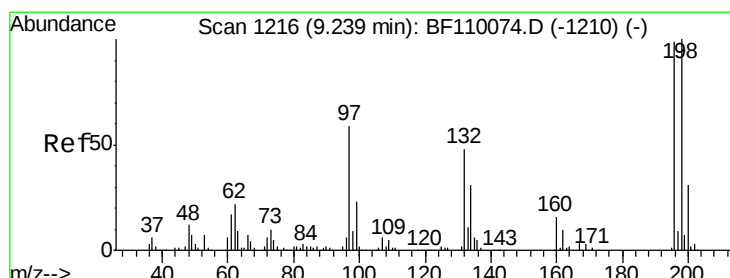
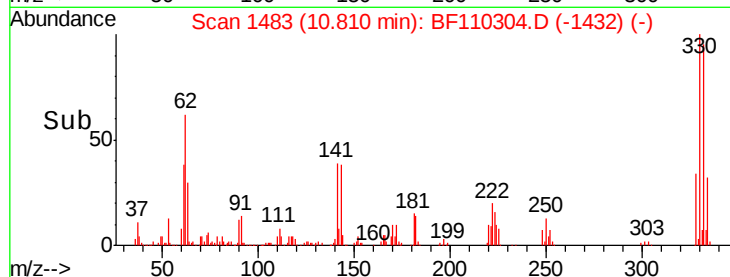
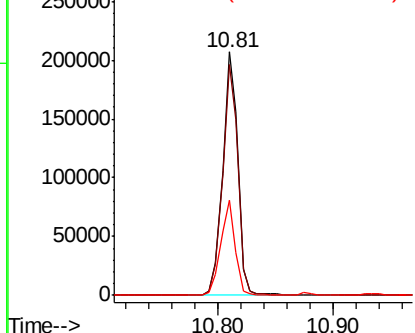
#42
 2,4,6-Tribromophenol
 Concen: 87.816 ng
 RT: 10.81 min Scan# 1483
 Delta R.T. 0.00 min
 Lab File: BF110304.D
 Acq: 30 Oct 2018 15:47

Instrument :
 BNA_F
 ClientSampleId :
 RED-SHALEMS

Tgt Ion:330 Resp: 188958
 Ion Ratio Lower Upper
 330 100
 332 95.7 77.1 115.7
 141 37.7 27.0 40.4

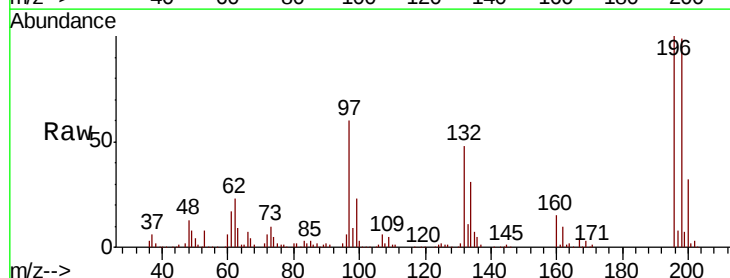


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

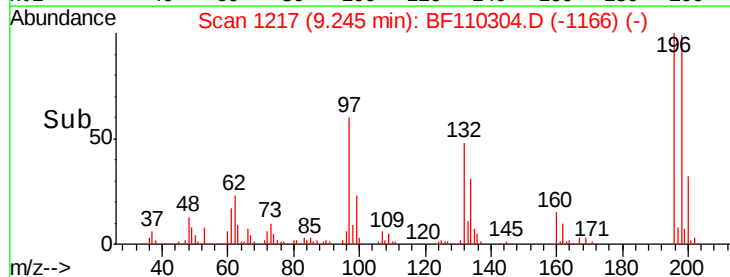
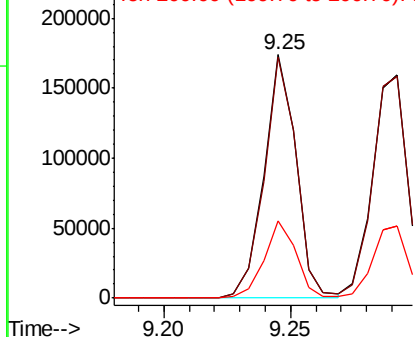


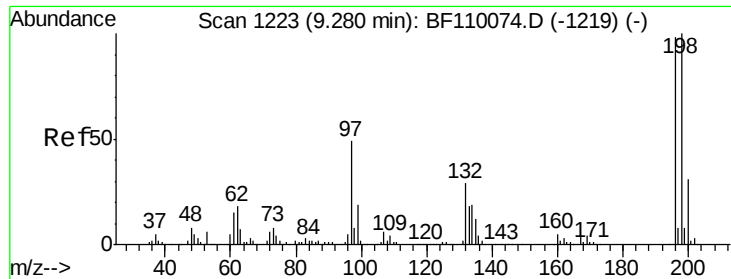
#43
 2,4,6-Trichlorophenol
 Concen: 35.114 ng
 RT: 9.25 min Scan# 1217
 Delta R.T. 0.00 min
 Lab File: BF110304.D
 Acq: 30 Oct 2018 15:47

Tgt Ion:196 Resp: 153291
 Ion Ratio Lower Upper
 196 100
 198 99.3 76.2 114.4
 200 31.8 24.4 36.6



Abundance Ion 196.00 (195.70 to 196.70): E
 Ion 198.00 (197.70 to 198.70): E
 Ion 200.00 (199.70 to 200.70): E

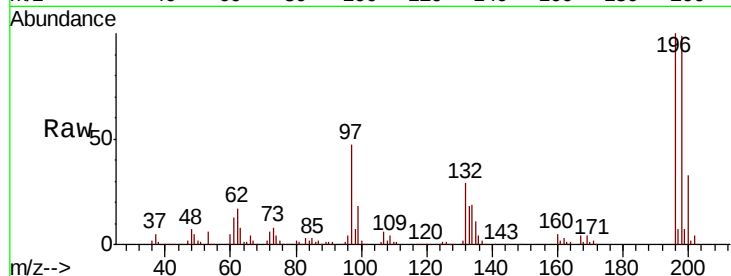




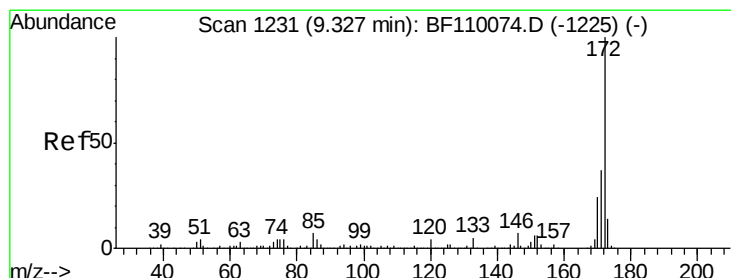
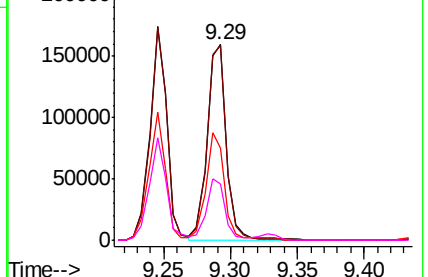
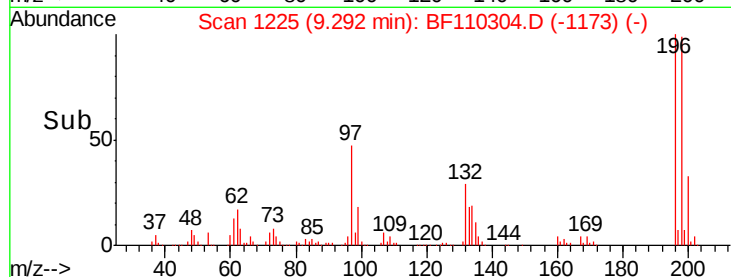
#44
 2,4,5-Trichlorophenol
 Concen: 34.733 ng
 RT: 9.29 min Scan# 1225
 Delta R.T. 0.01 min
 Lab File: BF110304.D
 Acq: 30 Oct 2018 15:47

Instrument :
 BNA_F
 ClientSampleId :
 RED-SHALEMS

Tgt Ion:196 Resp: 160274
 Ion Ratio Lower Upper
 196 100
 198 99.4 75.8 113.6
 97 47.1 42.4 63.6
 132 28.9 22.8 34.2

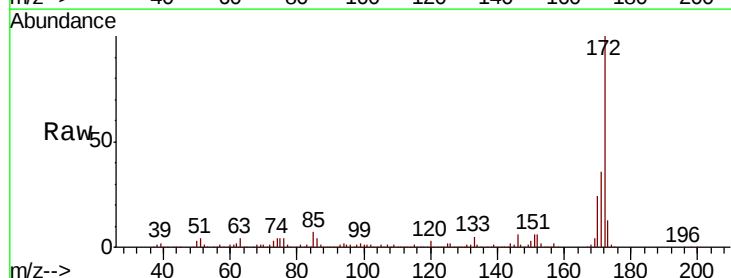


Abundance Ion 196.00 (195.70 to 196.70): E
 Ion 198.00 (197.70 to 198.70): E
 Ion 97.00 (96.70 to 97.70): BF1
 Ion 132.00 (131.70 to 132.70): E

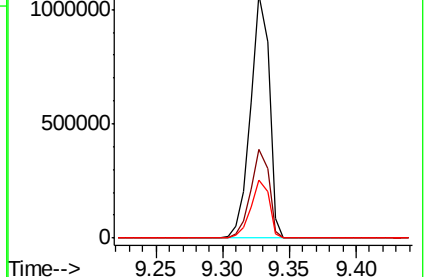
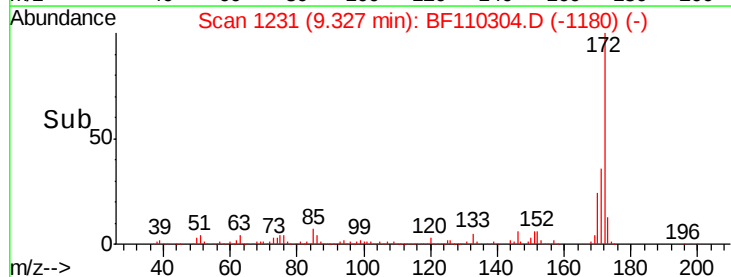


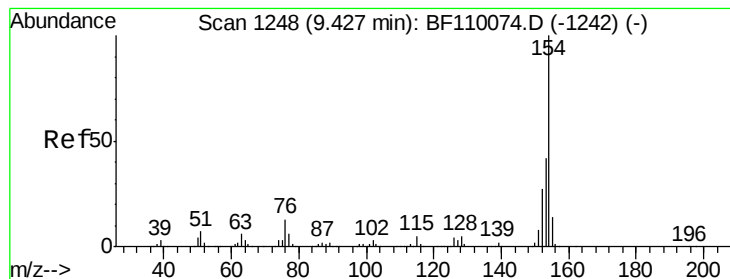
#45
 2-Fluorobiphenyl
 Concen: 73.594 ng
 RT: 9.33 min Scan# 1231
 Delta R.T. 0.00 min
 Lab File: BF110304.D
 Acq: 30 Oct 2018 15:47

Tgt Ion:172 Resp: 1018079
 Ion Ratio Lower Upper
 172 100
 171 36.5 28.6 43.0
 170 23.7 19.7 29.5



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





#46

1,1'-Biphenyl

Concen: 32.779 ng

RT: 9.43 min Scan# 1249

Delta R.T. 0.00 min

Lab File: BF110304.D

Acq: 30 Oct 2018 15:47

Instrument :

BNA_F

ClientSampleId :

RED-SHALEMS

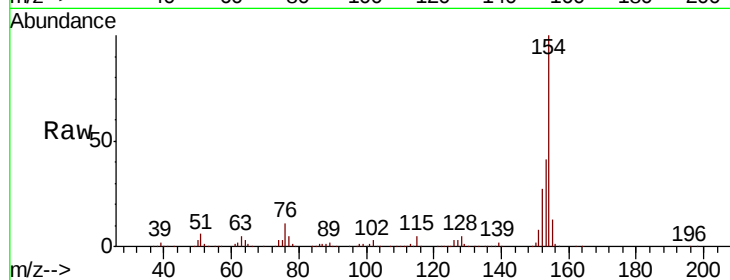
Tgt Ion:154 Resp: 643895

Ion Ratio Lower Upper

154 100

153 41.0 20.4 60.4

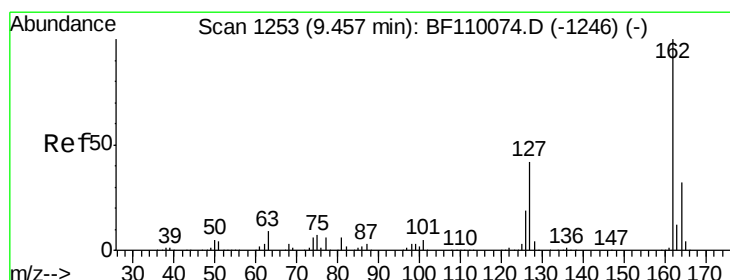
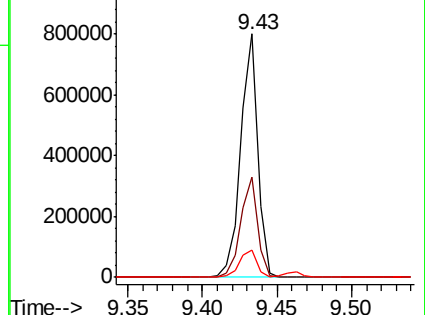
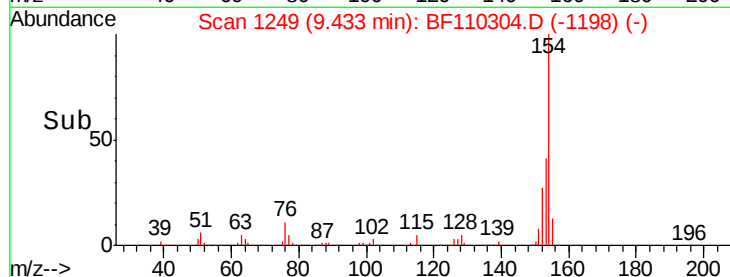
76 11.4 0.0 31.9



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF1



#47

2-Chloronaphthalene

Concen: 33.425 ng

RT: 9.46 min Scan# 1254

Delta R.T. 0.00 min

Lab File: BF110304.D

Acq: 30 Oct 2018 15:47

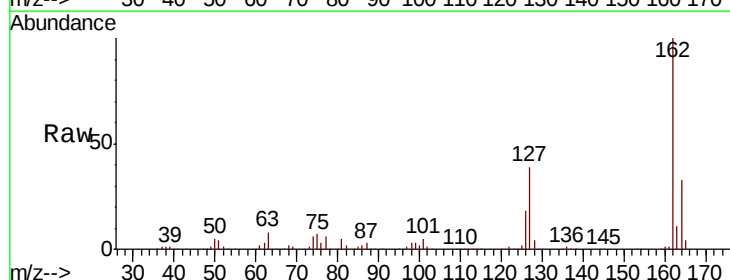
Tgt Ion:162 Resp: 481622

Ion Ratio Lower Upper

162 100

127 39.5 32.6 48.8

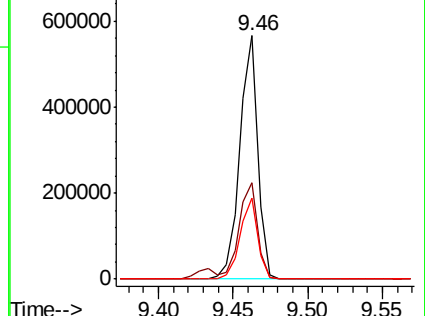
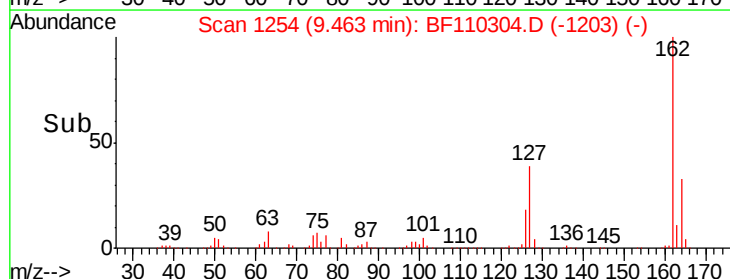
164 33.1 25.9 38.9

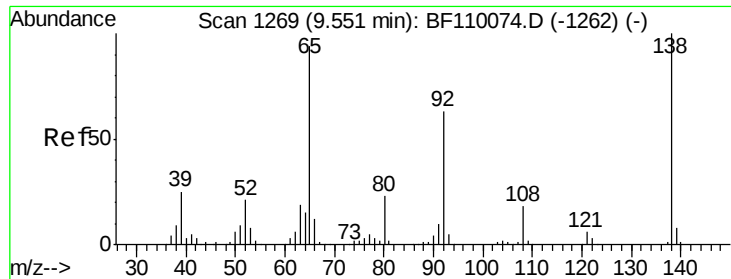


Abundance Ion 162.00 (161.70 to 162.70): E

Ion 127.00 (126.70 to 127.70): E

Ion 164.00 (163.70 to 164.70): E

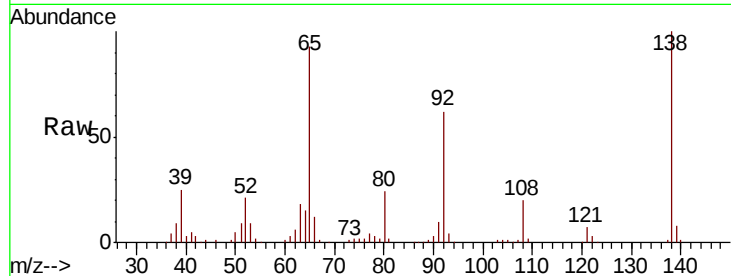




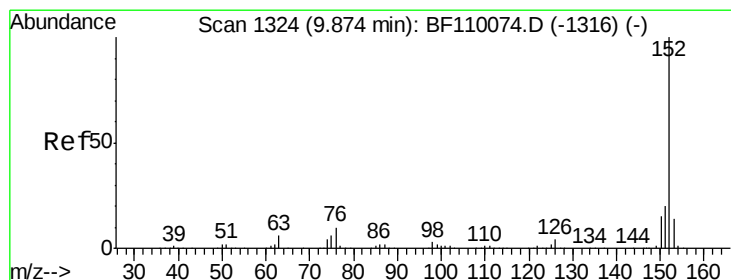
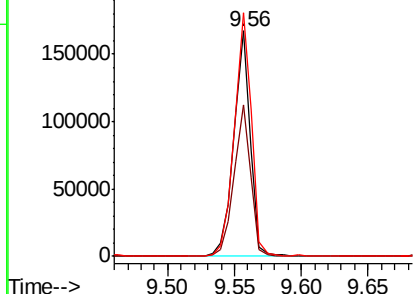
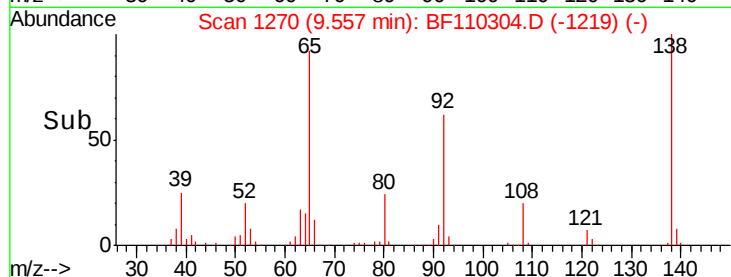
#48
2-Nitroaniline
Concen: 33.675 ng
RT: 9.56 min Scan# 1270
Delta R.T. 0.00 min
Lab File: BF110304.D
Acq: 30 Oct 2018 15:47

Instrument :
BNA_F
ClientSampleId :
RED-SHALEMS

Tgt Ion: 65 Resp: 147039
Ion Ratio Lower Upper
65 100
92 67.3 54.6 81.8
138 108.0 80.3 120.5

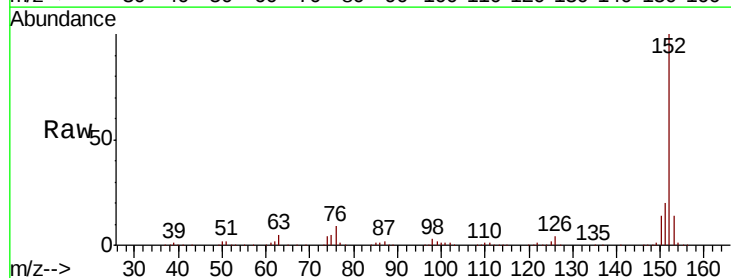


Abundance Ion 65.00 (64.70 to 65.70): BF1
Ion 92.00 (91.70 to 92.70): BF1
Ion 138.00 (137.70 to 138.70): BF1

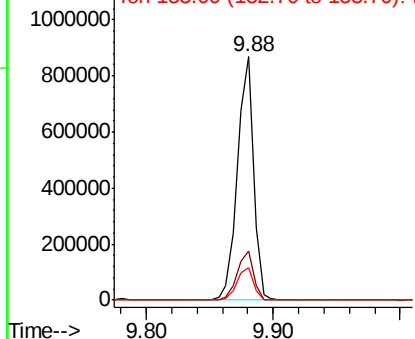
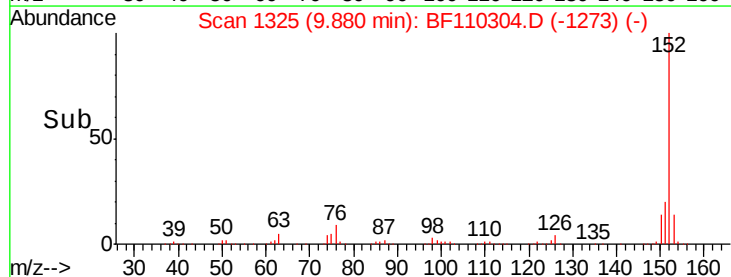


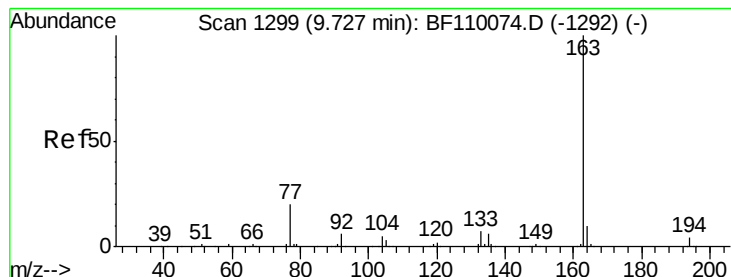
#49
Acenaphthylene
Concen: 36.251 ng
RT: 9.88 min Scan# 1325
Delta R.T. 0.01 min
Lab File: BF110304.D
Acq: 30 Oct 2018 15:47

Tgt Ion: 152 Resp: 754451
Ion Ratio Lower Upper
152 100
151 20.0 15.8 23.8
153 13.5 10.4 15.6



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E





#50

Dimethylphthalate

Concen: 40.583 ng

RT: 9.73 min Scan# 1299

Delta R.T. 0.00 min

Lab File: BF110304.D

Acq: 30 Oct 2018 15:47

Instrument :

BNA_F

ClientSampleId :

RED-SHALEMS

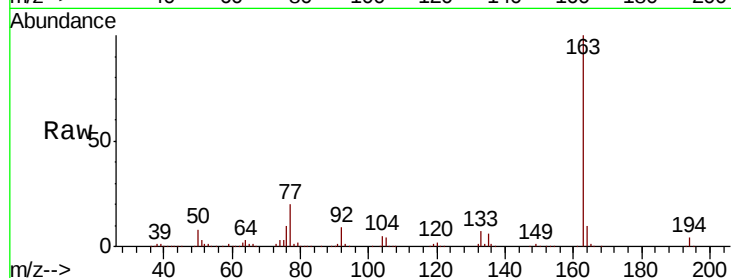
Tgt Ion:163 Resp: 650752

Ion Ratio Lower Upper

163 100

194 3.7 3.2 4.8

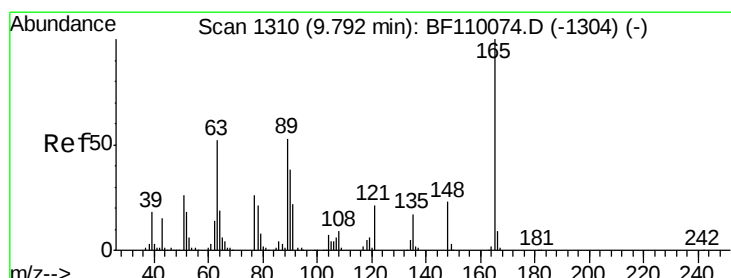
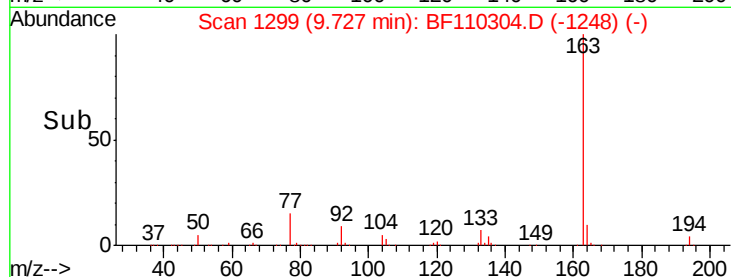
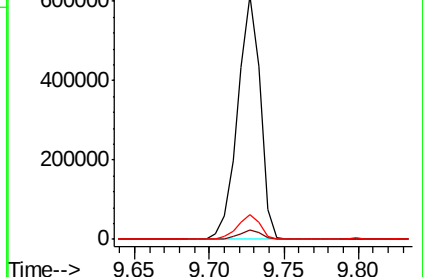
164 10.1 8.1 12.1



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#51

2,6-Dinitrotoluene

Concen: 33.840 ng

RT: 9.80 min Scan# 1311

Delta R.T. 0.01 min

Lab File: BF110304.D

Acq: 30 Oct 2018 15:47

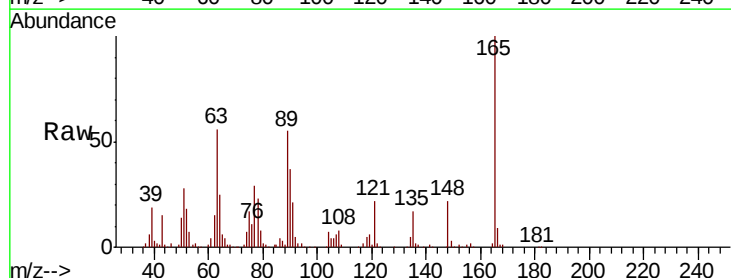
Tgt Ion:165 Resp: 116882

Ion Ratio Lower Upper

165 100

63 55.8 48.9 73.3

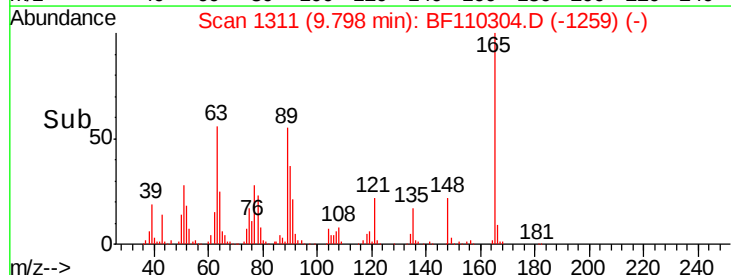
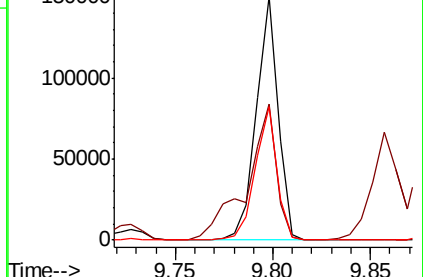
89 54.7 46.6 69.8

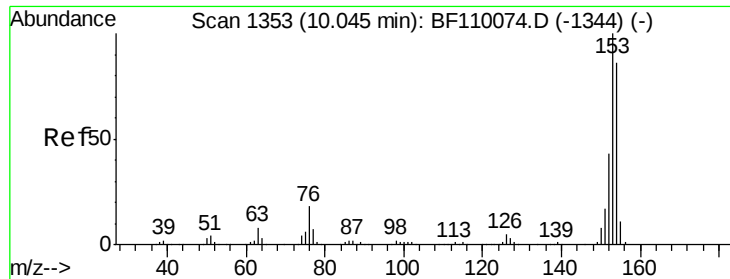


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1





#52

Acenaphthene

Concen: 39.486 ng

RT: 10.05 min Scan# 1354

Delta R.T. 0.00 min

Lab File: BF110304.D

Acq: 30 Oct 2018 15:47

Instrument :

BNA_F

ClientSampleId :

RED-SHALEMS

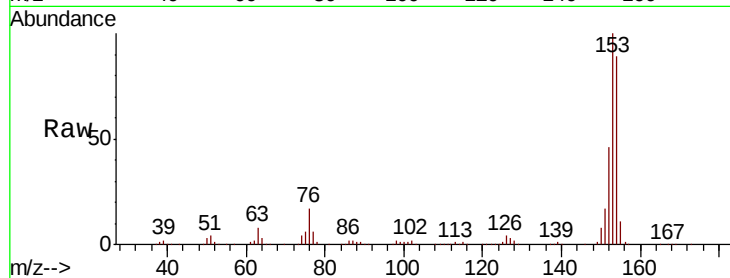
Tgt Ion:154 Resp: 543642

Ion Ratio Lower Upper

154 100

153 112.5 90.1 135.1

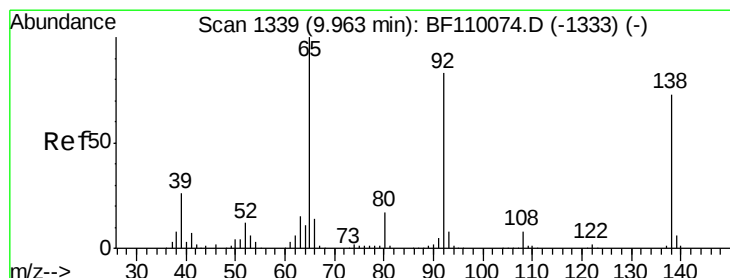
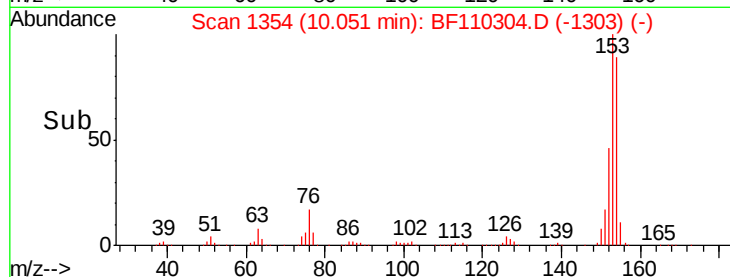
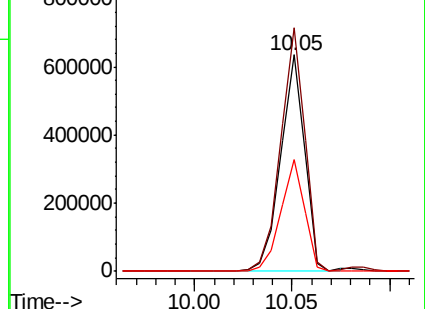
152 51.5 43.4 65.2



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#53

3-Nitroaniline

Concen: 24.042 ng

RT: 9.97 min Scan# 1340

Delta R.T. 0.00 min

Lab File: BF110304.D

Acq: 30 Oct 2018 15:47

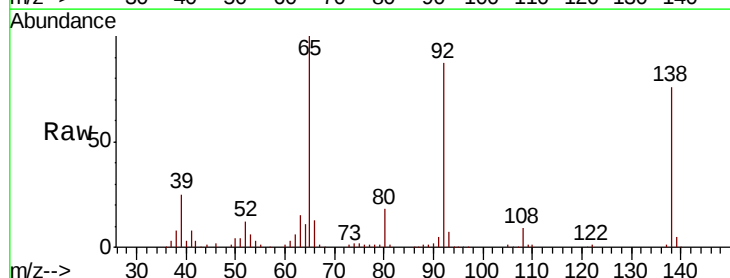
Tgt Ion:138 Resp: 98753

Ion Ratio Lower Upper

138 100

108 11.4 8.7 13.1

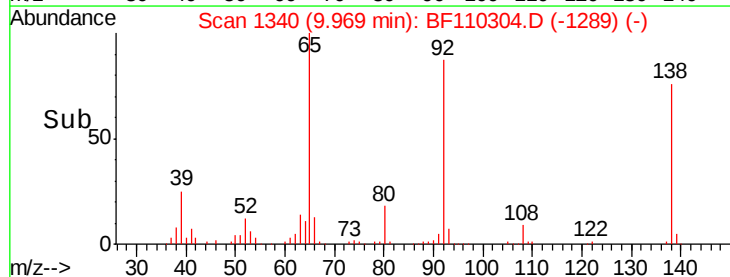
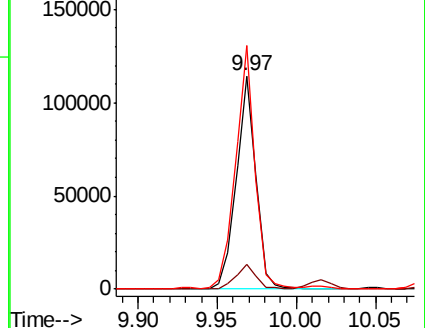
92 114.2 97.0 145.4

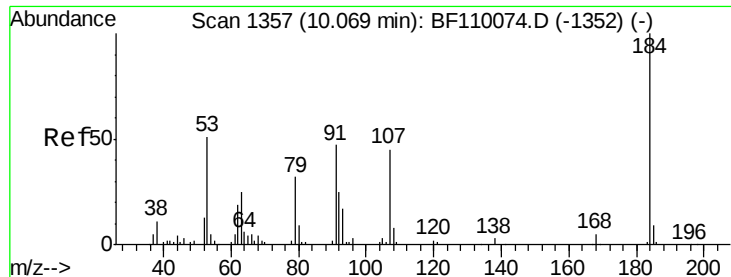


Abundance Ion 138.00 (137.70 to 138.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BF1

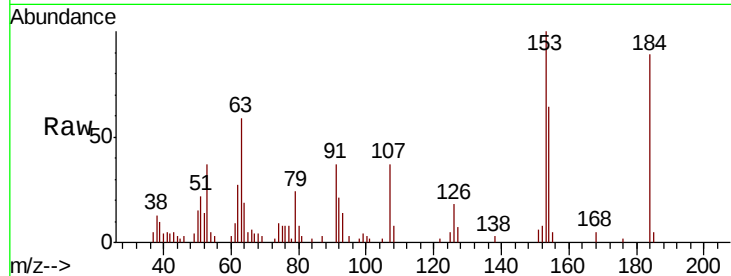




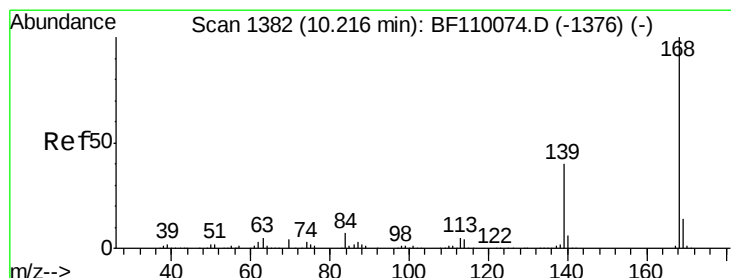
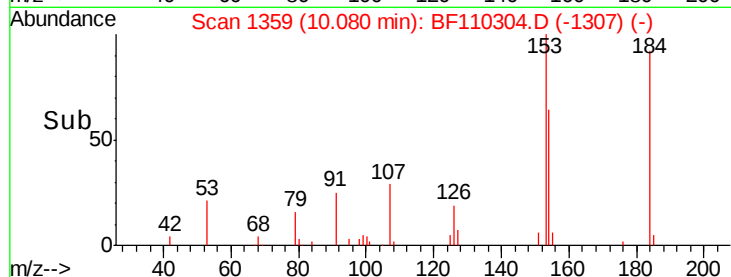
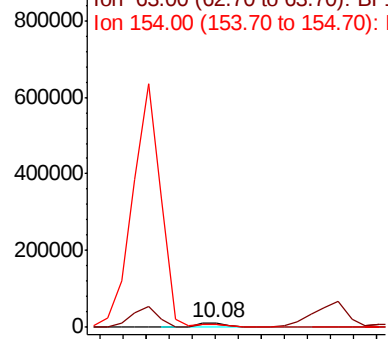
#54
2,4-Dinitrophenol
Concen: 13.051 ng
RT: 10.08 min Scan# 1359
Delta R.T. 0.01 min
Lab File: BF110304.D
Acq: 30 Oct 2018 15:47

Instrument :
BNA_F
ClientSampleId :
RED-SHALEMS

Tgt Ion:184 Resp: 11544
Ion Ratio Lower Upper
184 100
63 66.4 55.8 83.6
154 72.3 63.2 94.8

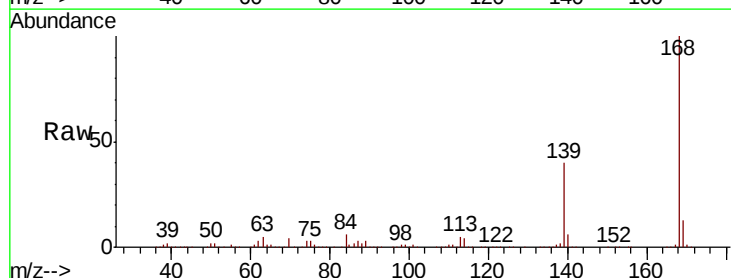


Abundance Ion 184.00 (183.70 to 184.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 154.00 (153.70 to 154.70): E

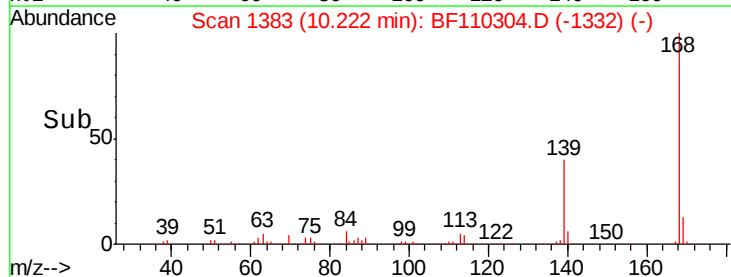
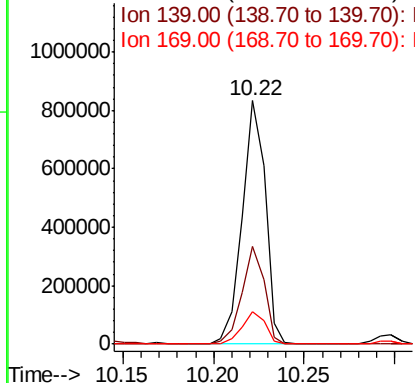


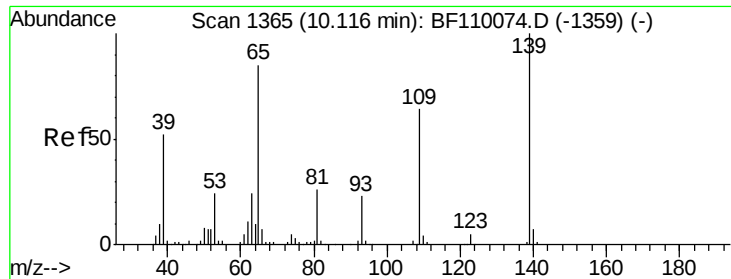
#55
Dibenzofuran
Concen: 38.356 ng
RT: 10.22 min Scan# 1383
Delta R.T. 0.00 min
Lab File: BF110304.D
Acq: 30 Oct 2018 15:47

Tgt Ion:168 Resp: 739377
Ion Ratio Lower Upper
168 100
139 39.9 33.0 49.6
169 13.4 11.3 16.9



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

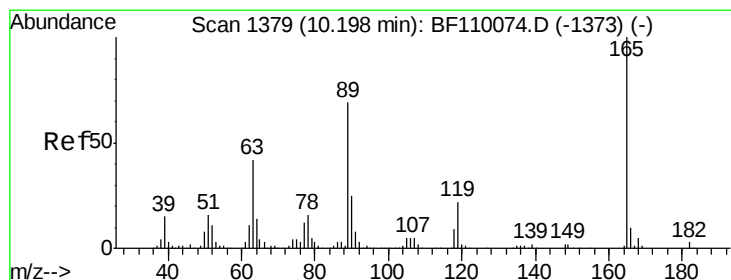
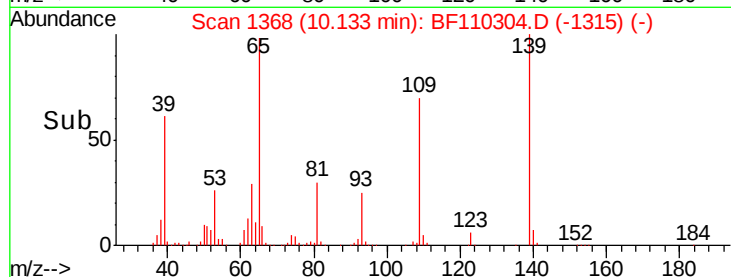
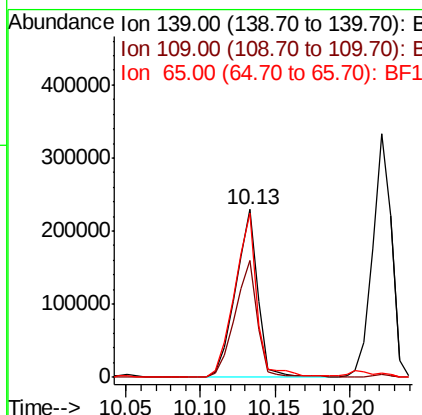
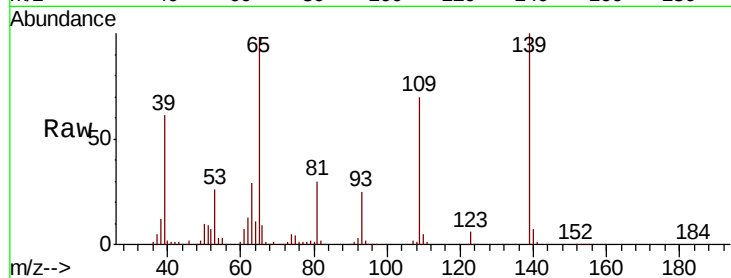




#56
4-Nitrophenol
Concen: 79.498 ng
RT: 10.13 min Scan# 1368
Delta R.T. 0.01 min
Lab File: BF110304.D
Acq: 30 Oct 2018 15:47

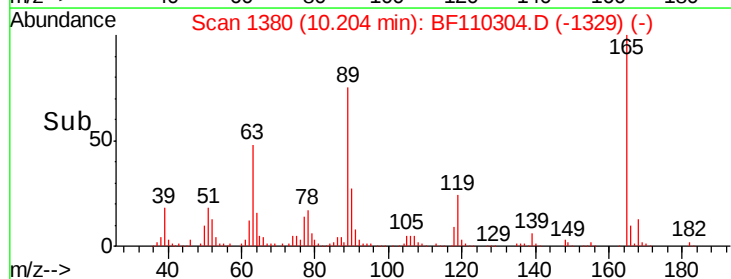
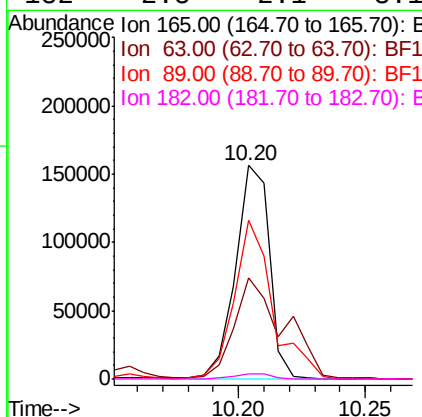
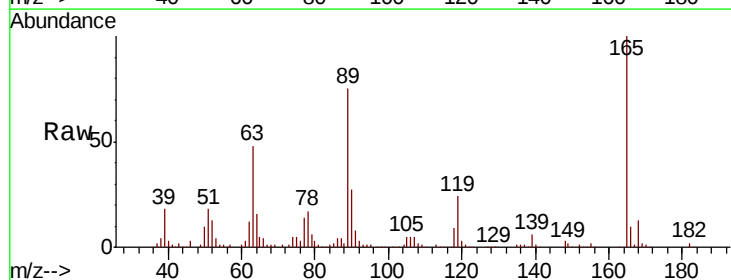
Instrument :
BNA_F
ClientSampleId :
RED-SHALEMS

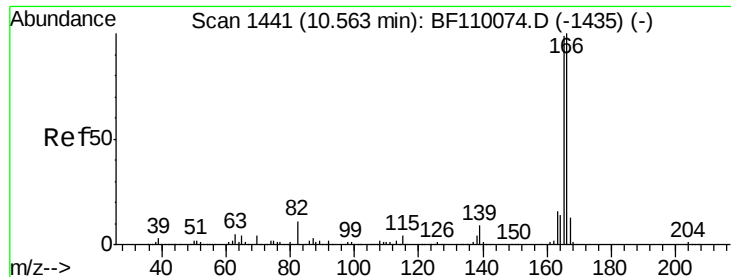
Tgt Ion:139 Resp: 241676
Ion Ratio Lower Upper
139 100
109 70.0 55.8 95.8
65 97.9 77.9 117.9



#57
2,4-Dinitrotoluene
Concen: 33.086 ng
RT: 10.20 min Scan# 1380
Delta R.T. 0.00 min
Lab File: BF110304.D
Acq: 30 Oct 2018 15:47

Tgt Ion:165 Resp: 145157
Ion Ratio Lower Upper
165 100
63 47.6 44.8 67.2
89 74.5 62.2 93.4
182 2.5 2.1 3.1

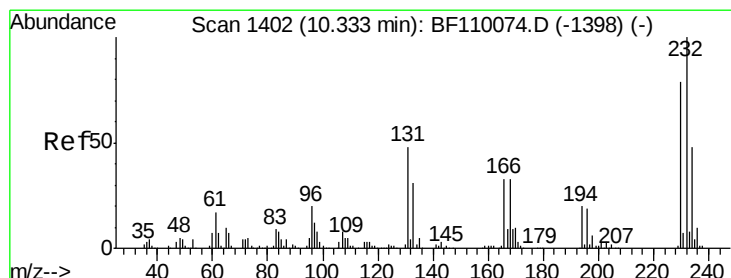
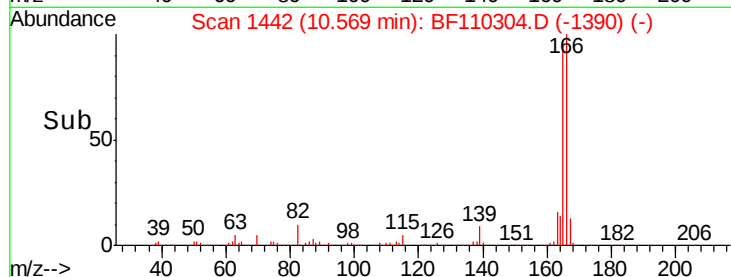
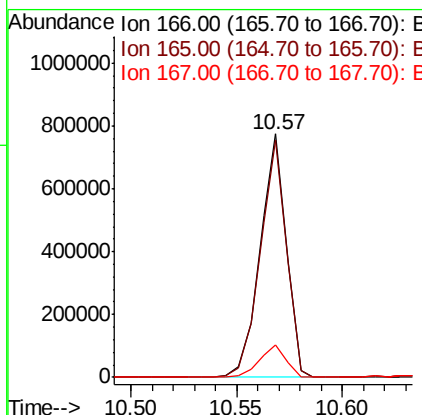
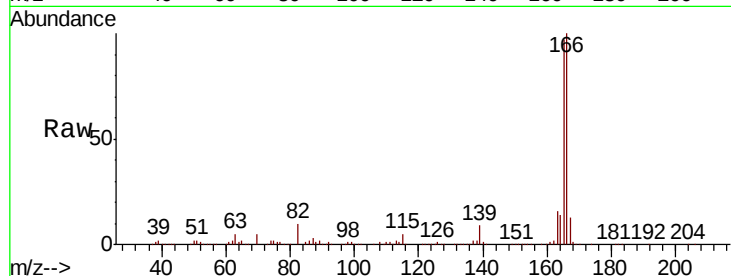




#58
 Fluorene
 Concen: 46.355 ng
 RT: 10.57 min Scan# 1442
 Delta R.T. 0.01 min
 Lab File: BF110304.D
 Acq: 30 Oct 2018 15:47

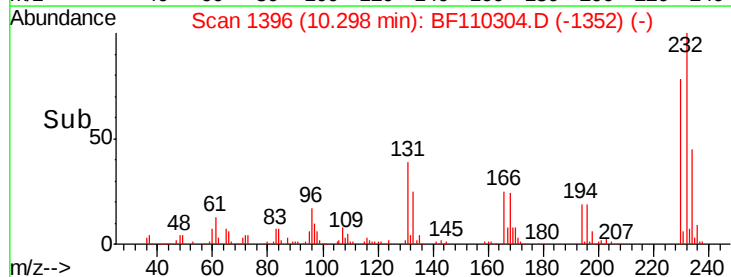
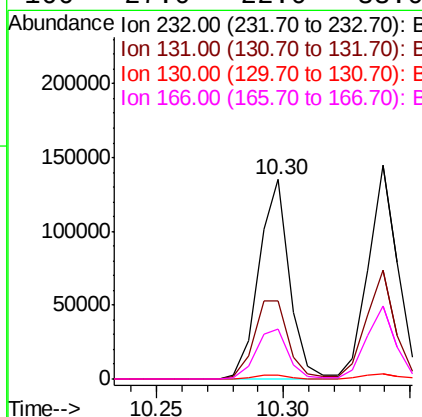
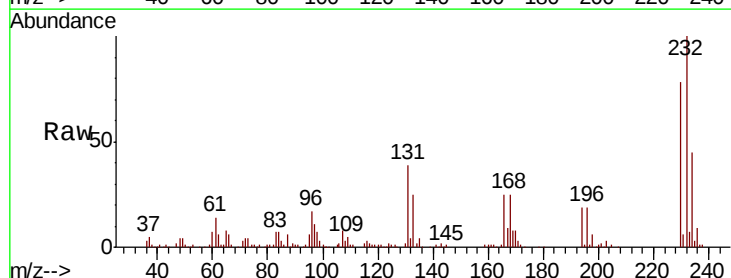
Instrument :
 BNA_F
 ClientSampleId :
 RED-SHALEMS

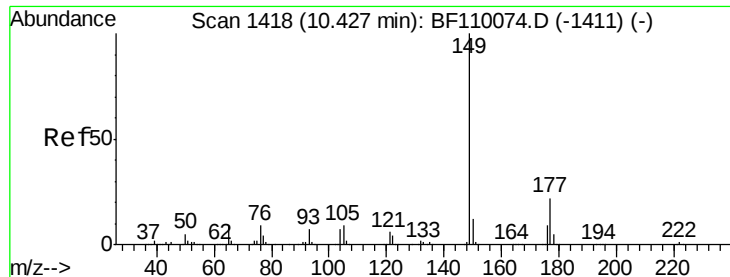
Tgt Ion:166 Resp: 665022
 Ion Ratio Lower Upper
 166 100
 165 97.4 78.6 117.8
 167 13.3 10.8 16.2



#59
 2,3,4,6-Tetrachlorophenol
 Concen: 30.488 ng
 RT: 10.30 min Scan# 1396
 Delta R.T. -0.04 min
 Lab File: BF110304.D
 Acq: 30 Oct 2018 15:47

Tgt Ion:232 Resp: 114670
 Ion Ratio Lower Upper
 232 100
 131 43.7 37.0 55.4
 130 2.4 1.8 2.6
 166 27.0 22.0 33.0

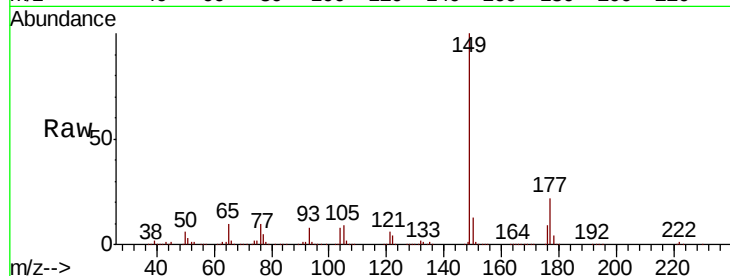




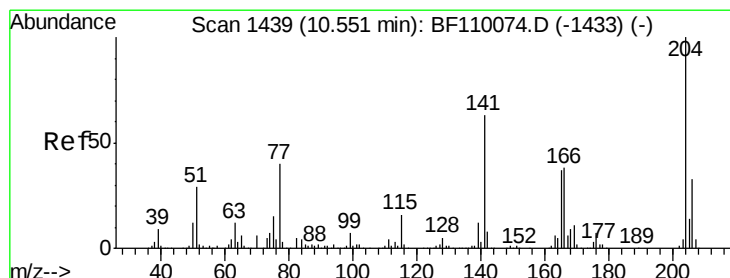
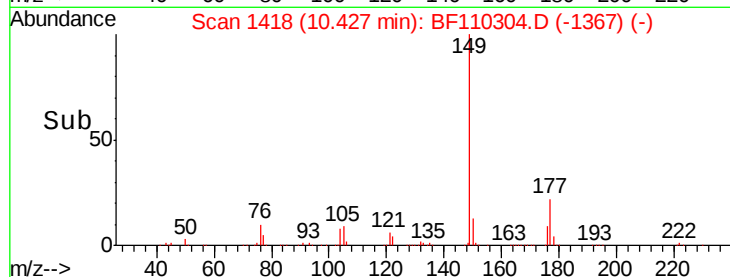
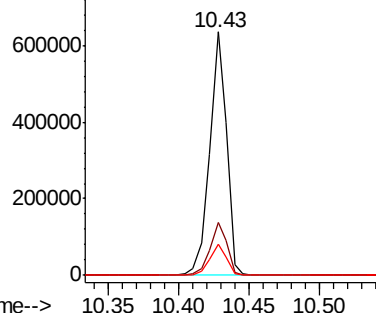
#60
Diethylphthalate
Concen: 33.659 ng
RT: 10.43 min Scan# 1418
Delta R.T. 0.00 min
Lab File: BF110304.D
Acq: 30 Oct 2018 15:47

Instrument :
BNA_F
ClientSampleId :
RED-SHALEMS

Tgt Ion:149 Resp: 526852
Ion Ratio Lower Upper
149 100
177 21.8 17.4 26.2
150 12.7 9.8 14.8

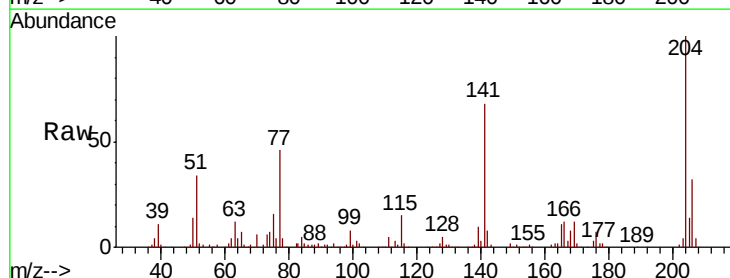


Abundance Ion 149.00 (148.70 to 149.70): E
Ion 177.00 (176.70 to 177.70): E
Ion 150.00 (149.70 to 150.70): E

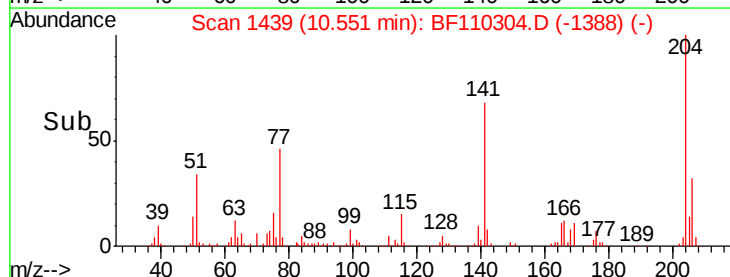
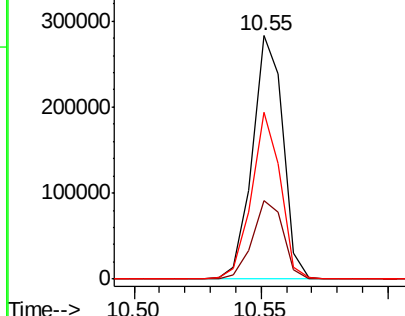


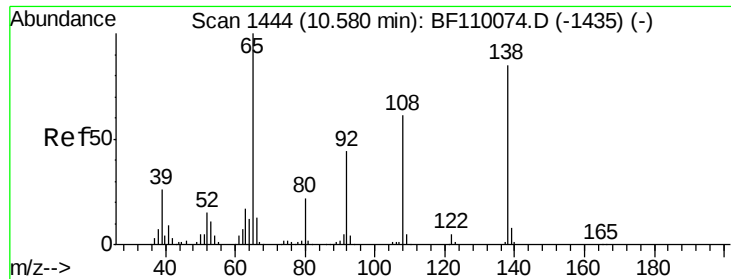
#61
4-Chlorophenyl-phenylether
Concen: 31.425 ng
RT: 10.55 min Scan# 1439
Delta R.T. 0.00 min
Lab File: BF110304.D
Acq: 30 Oct 2018 15:47

Tgt Ion:204 Resp: 237832
Ion Ratio Lower Upper
204 100
206 32.2 26.5 39.7
141 68.4 51.8 77.8



Abundance Ion 204.00 (203.70 to 204.70): E
Ion 206.00 (205.70 to 206.70): E
Ion 141.00 (140.70 to 141.70): E

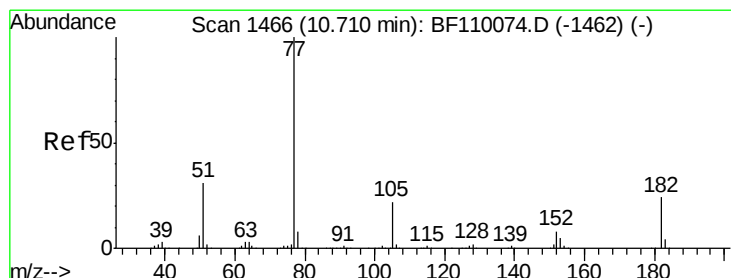
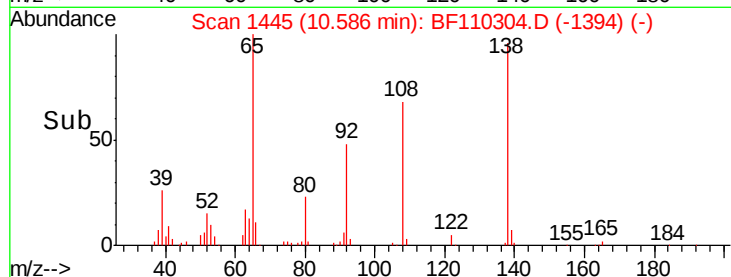
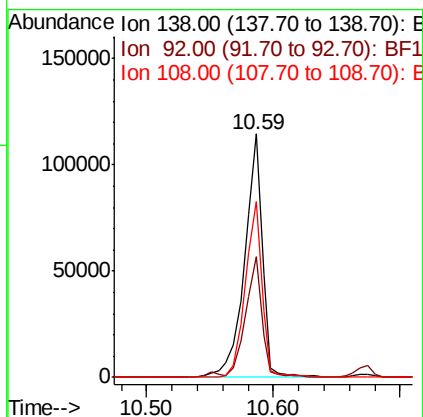
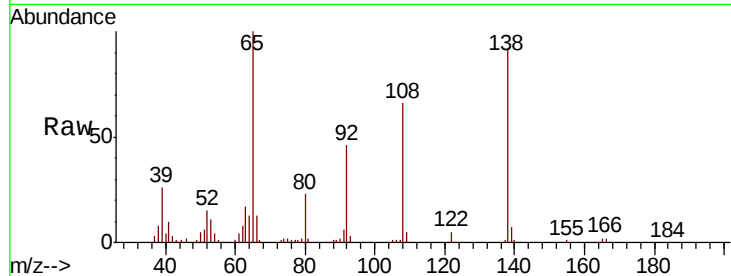




#62
4-Nitroaniline
Concen: 27.302 ng
RT: 10.59 min Scan# 1445
Delta R.T. 0.00 min
Lab File: BF110304.D
Acq: 30 Oct 2018 15:47

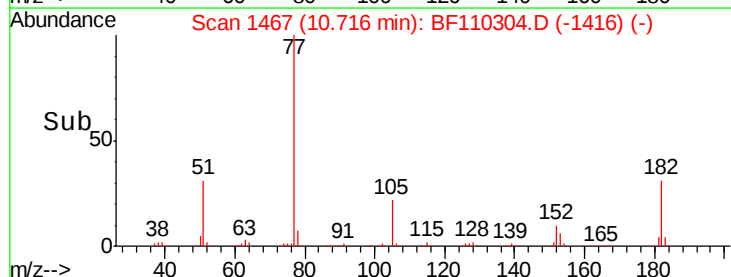
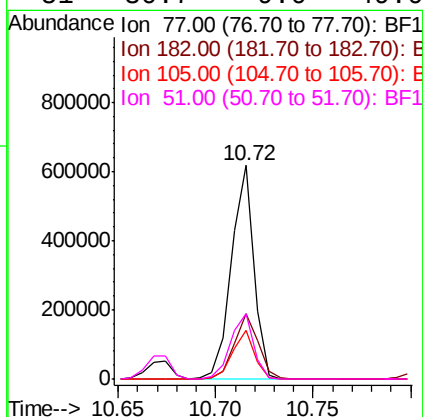
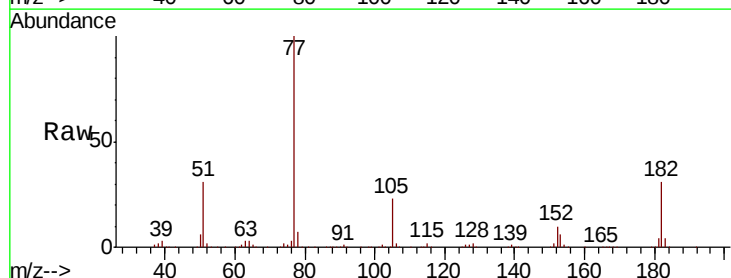
Instrument :
BNA_F
ClientSampleId :
RED-SHALEMS

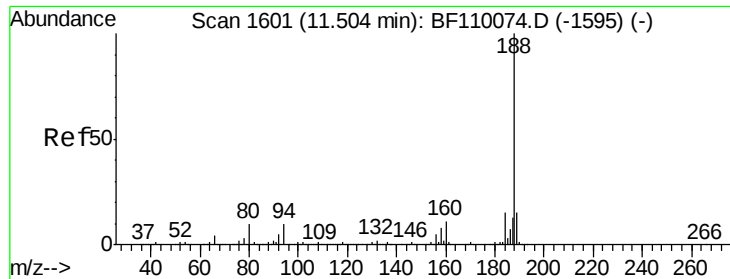
Tgt Ion: 138 Resp: 111538
Ion Ratio Lower Upper
138 100
92 49.7 31.7 71.7
108 72.4 59.3 99.3



#63
Azobenzene
Concen: 31.606 ng
RT: 10.72 min Scan# 1467
Delta R.T. 0.00 min
Lab File: BF110304.D
Acq: 30 Oct 2018 15:47

Tgt Ion: 77 Resp: 491067
Ion Ratio Lower Upper
77 100
182 30.7 4.3 44.3
105 23.0 1.3 41.3
51 30.7 9.0 49.0





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.51 min Scan# 1602

Delta R.T. -0.00 min

Lab File: BF110304.D

Acq: 30 Oct 2018 15:47

Instrument :

BNA_F

ClientSampleId :

RED-SHALEMS

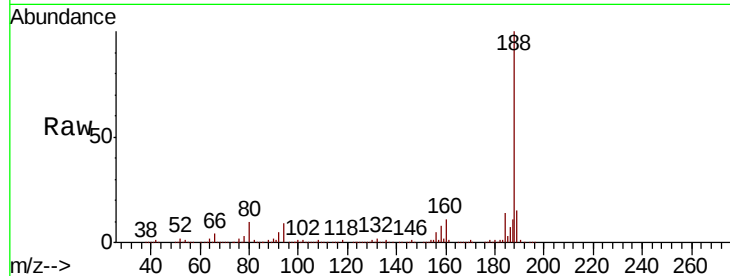
Tgt Ion:188 Resp: 348792

Ion Ratio Lower Upper

188 100

94 9.5 7.2 10.8

80 9.8 7.9 11.9



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

11.51

400000

300000

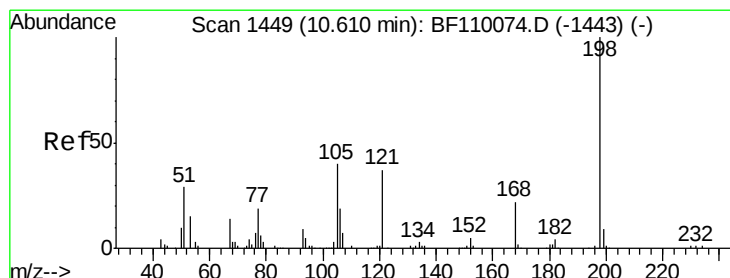
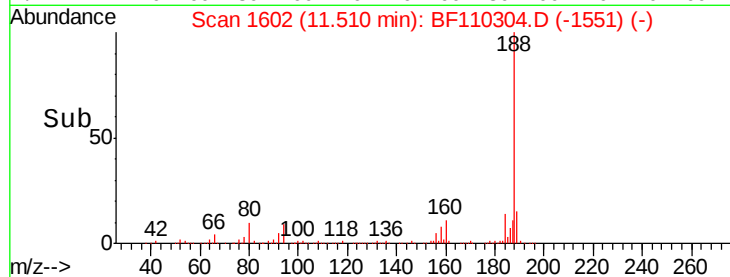
200000

100000

0

11.45 11.50 11.55

Time-->



#65

4,6-Dinitro-2-methylphenol

Concen: 12.037 ng

RT: 10.62 min Scan# 1450

Delta R.T. 0.01 min

Lab File: BF110304.D

Acq: 30 Oct 2018 15:47

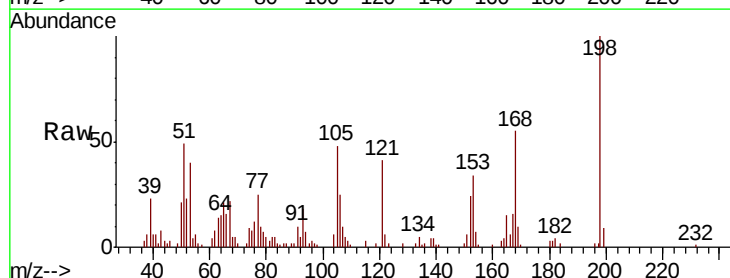
Tgt Ion:198 Resp: 19181

Ion Ratio Lower Upper

198 100

51 48.9 22.8 62.8

105 48.5 23.6 63.6



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF1

Ion 105.00 (104.70 to 105.70): E

80000

60000

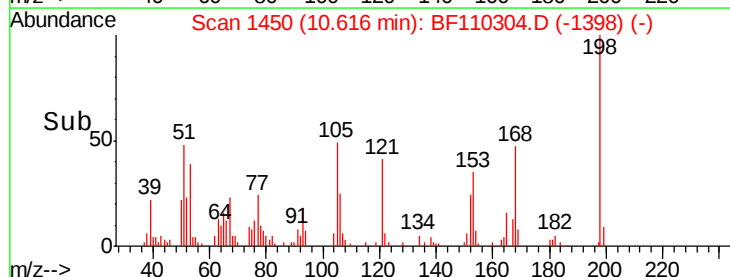
40000

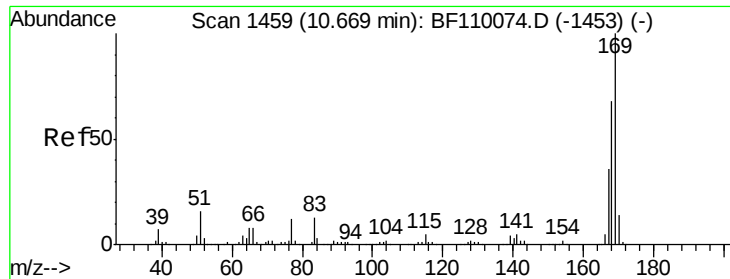
20000

0

10.60 10.62 10.65

Time-->

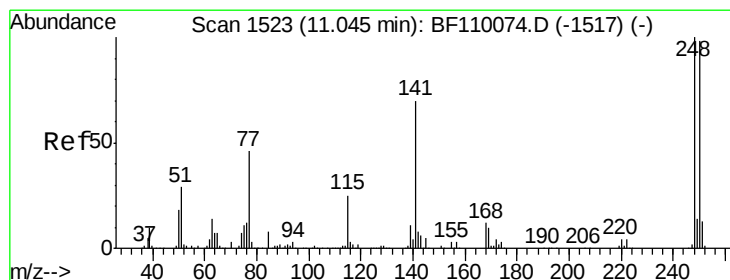
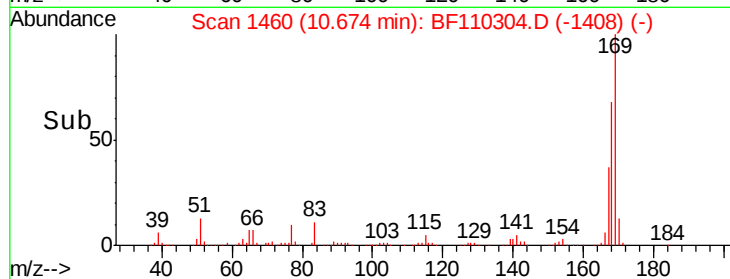
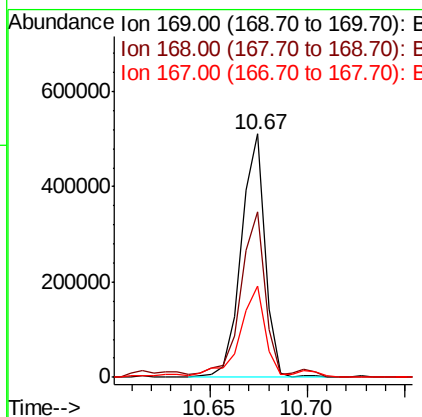
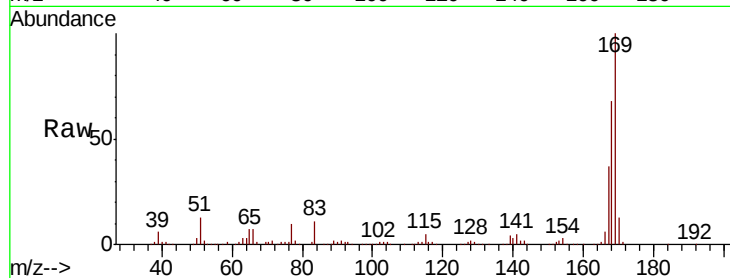




#66
 n-Nitrosodiphenylamine
 Concen: 37.519 ng
 RT: 10.67 min Scan# 1460
 Delta R.T. 0.01 min
 Lab File: BF110304.D
 Acq: 30 Oct 2018 15:47

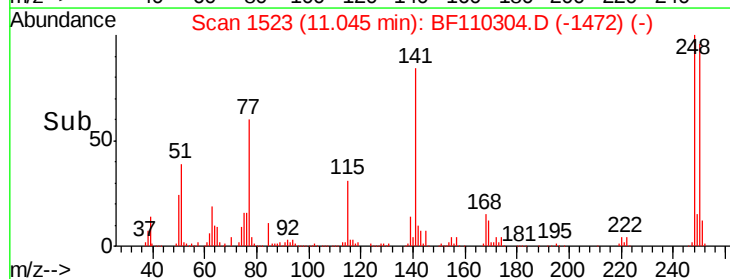
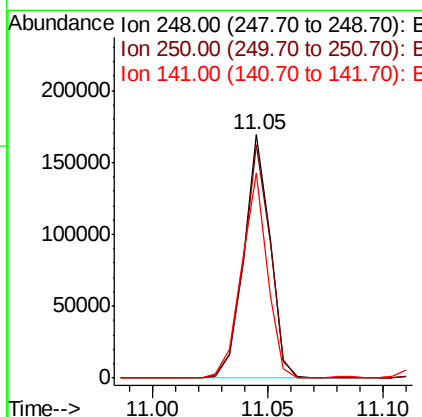
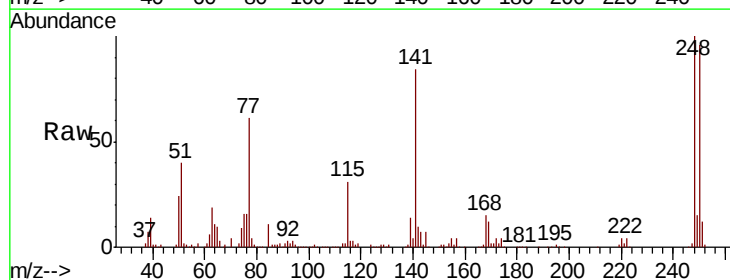
Instrument :
 BNA_F
 ClientSampleId :
 RED-SHALEMS

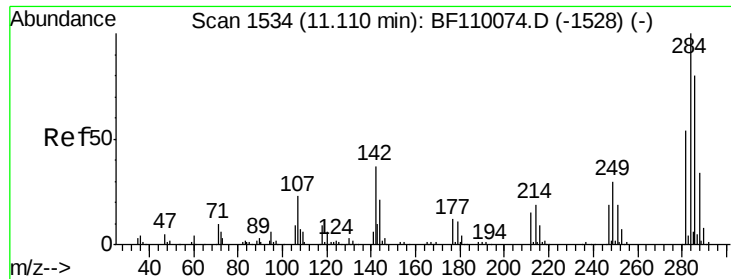
Tgt Ion:169 Resp: 429237
 Ion Ratio Lower Upper
 169 100
 168 67.8 51.2 76.8
 167 37.3 27.8 41.6



#67
 4-Bromophenyl-phenylether
 Concen: 35.481 ng
 RT: 11.05 min Scan# 1523
 Delta R.T. 0.00 min
 Lab File: BF110304.D
 Acq: 30 Oct 2018 15:47

Tgt Ion:248 Resp: 134237
 Ion Ratio Lower Upper
 248 100
 250 95.8 79.4 119.2
 141 84.2 55.9 83.9#

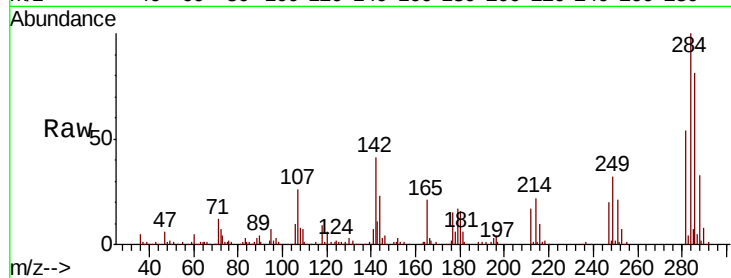




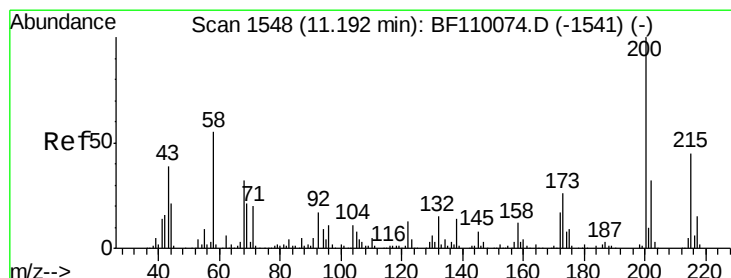
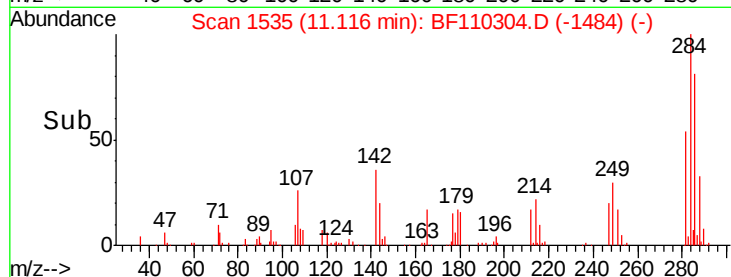
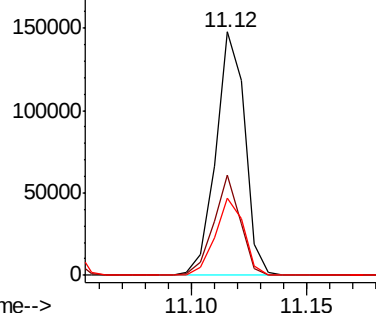
#68
Hexachlorobenzene
Concen: 32.393 ng
RT: 11.12 min Scan# 1535
Delta R.T. 0.00 min
Lab File: BF110304.D
Acq: 30 Oct 2018 15:47

Instrument :
BNA_F
ClientSampleId :
RED-SHALEMS

Tgt Ion:284 Resp: 130033
Ion Ratio Lower Upper
284 100
142 41.0 23.9 35.9#
249 32.0 24.2 36.2

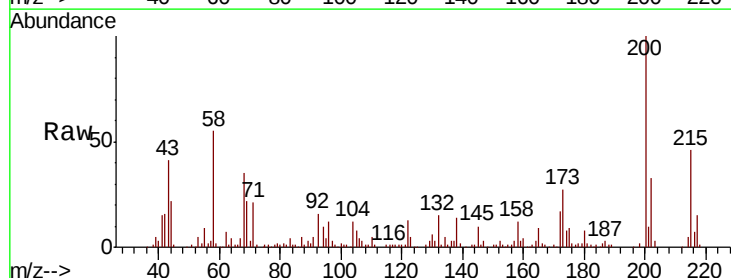


Abundance Ion 283.80 (283.50 to 284.50): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E

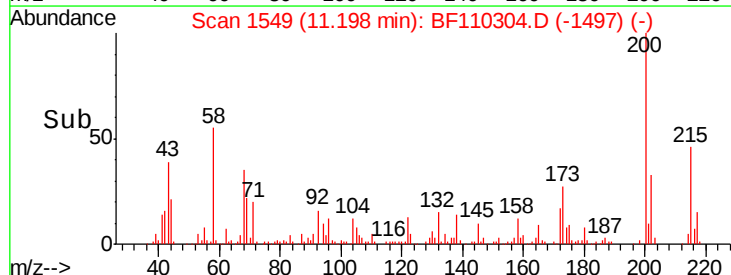
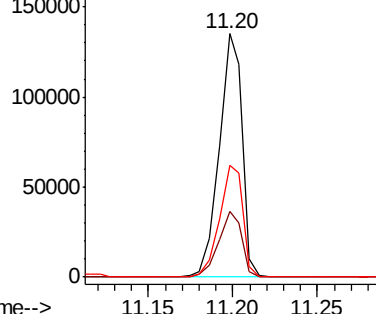


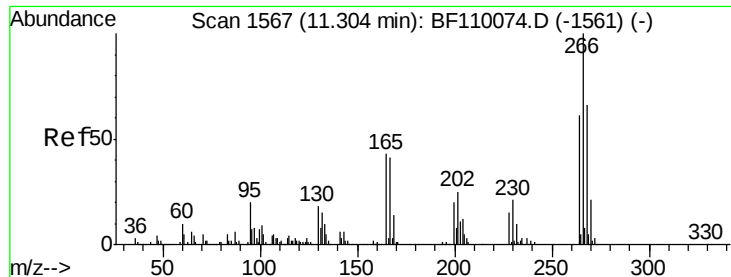
#69
Atrazine
Concen: 35.585 ng
RT: 11.20 min Scan# 1549
Delta R.T. 0.01 min
Lab File: BF110304.D
Acq: 30 Oct 2018 15:47

Tgt Ion:200 Resp: 128655
Ion Ratio Lower Upper
200 100
173 27.0 6.6 46.6
215 46.0 26.3 66.3



Abundance Ion 200.00 (199.70 to 200.70): E
Ion 173.00 (172.70 to 173.70): E
Ion 215.00 (214.70 to 215.70): E

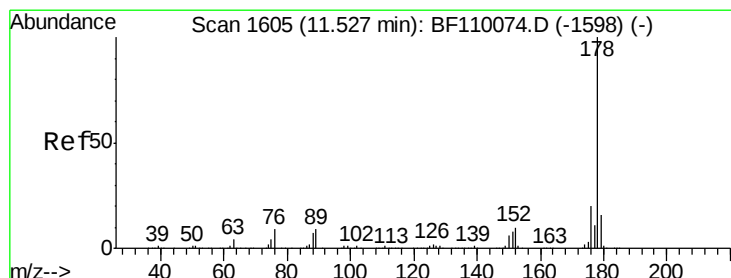
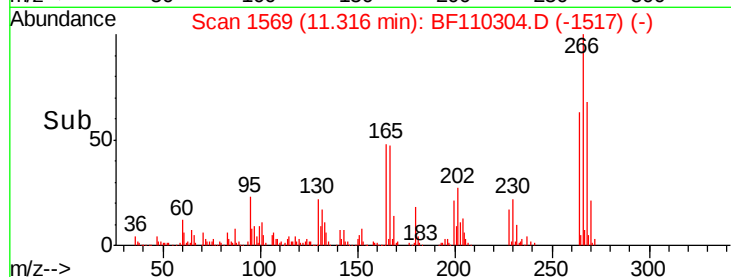
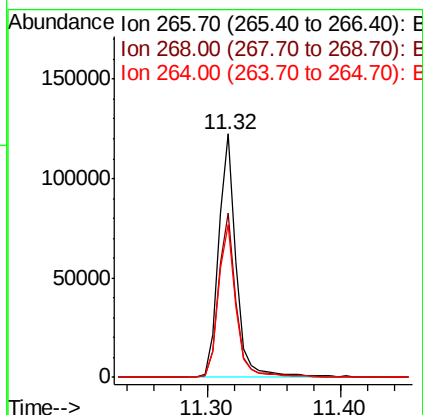
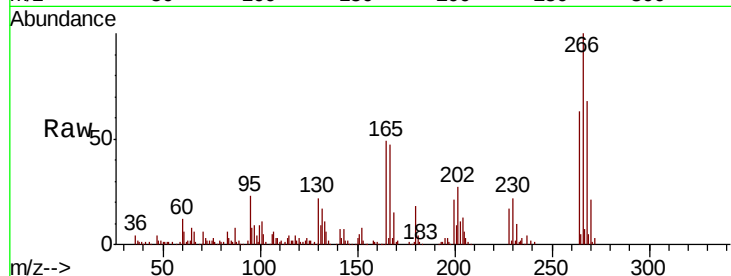




#70
 Pentachlorophenol
 Concen: 48.802 ng
 RT: 11.32 min Scan# 1569
 Delta R.T. 0.01 min
 Lab File: BF110304.D
 Acq: 30 Oct 2018 15:47

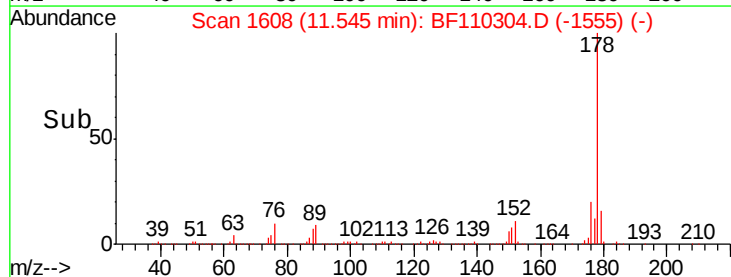
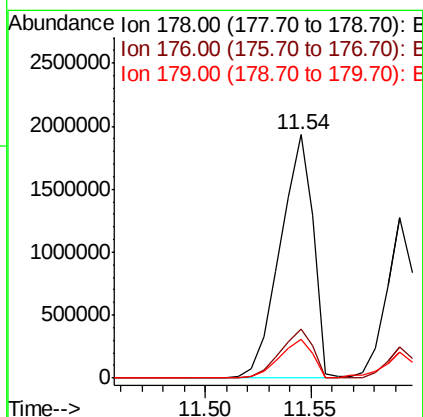
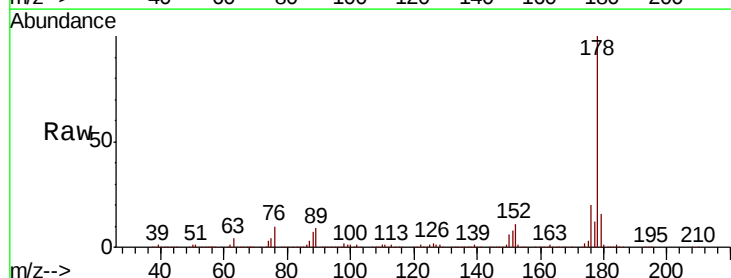
Instrument :
 BNA_F
 ClientSampleId :
 RED-SHALEMS

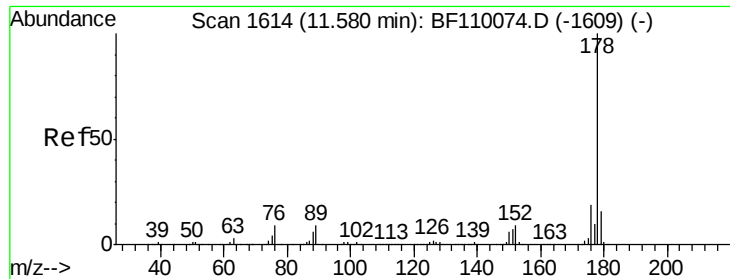
Tgt Ion:266 Resp: 114233
 Ion Ratio Lower Upper
 266 100
 268 67.5 50.6 75.8
 264 62.7 50.6 75.8



#71
 Phenanthrene
 Concen: 115.657 ng
 RT: 11.54 min Scan# 1608
 Delta R.T. 0.01 min
 Lab File: BF110304.D
 Acq: 30 Oct 2018 15:47

Tgt Ion:178 Resp: 2110796
 Ion Ratio Lower Upper
 178 100
 176 20.2 15.5 23.3
 179 16.1 12.5 18.7





#72

Anthracene

Concen: 62.368 ng

RT: 11.59 min Scan# 1616

Delta R.T. 0.01 min

Lab File: BF110304.D

Acq: 30 Oct 2018 15:47

Instrument :

BNA_F

ClientSampleId :

RED-SHALEMS

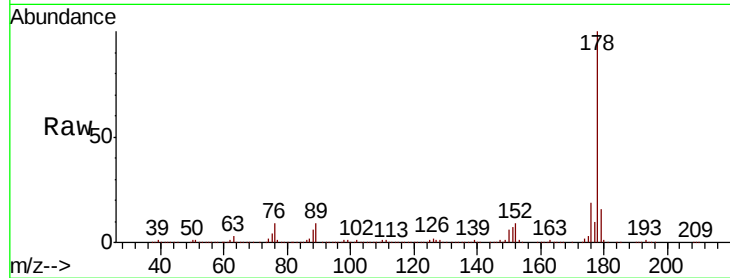
Tgt Ion:178 Resp: 1140907

Ion Ratio Lower Upper

178 100

176 19.3 15.4 23.2

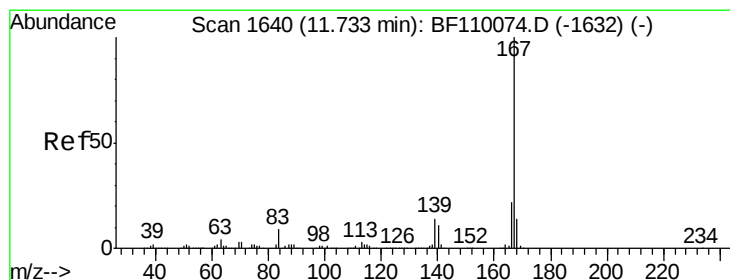
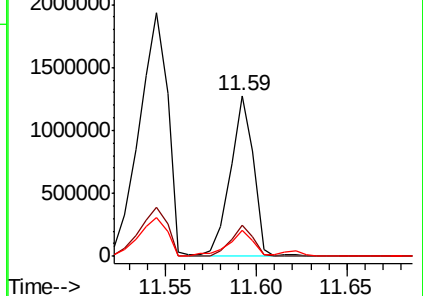
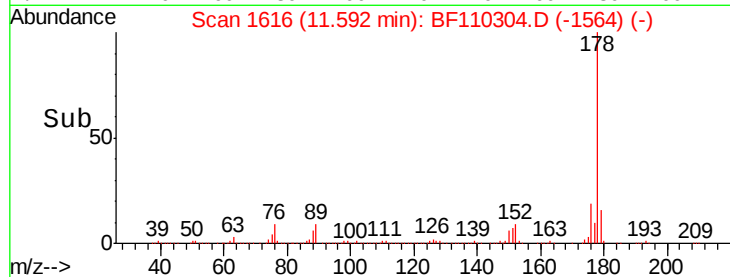
179 15.8 12.6 18.8



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#73

Carbazole

Concen: 40.538 ng

RT: 11.74 min Scan# 1642

Delta R.T. 0.01 min

Lab File: BF110304.D

Acq: 30 Oct 2018 15:47

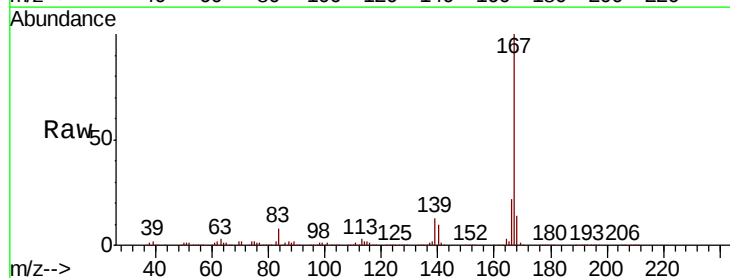
Tgt Ion:167 Resp: 724056

Ion Ratio Lower Upper

167 100

166 21.6 17.4 26.0

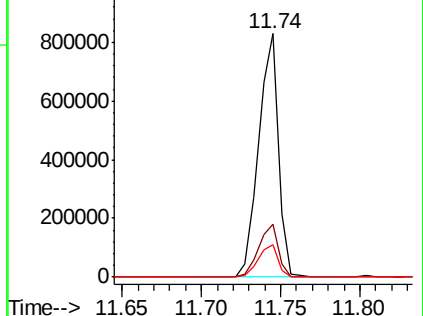
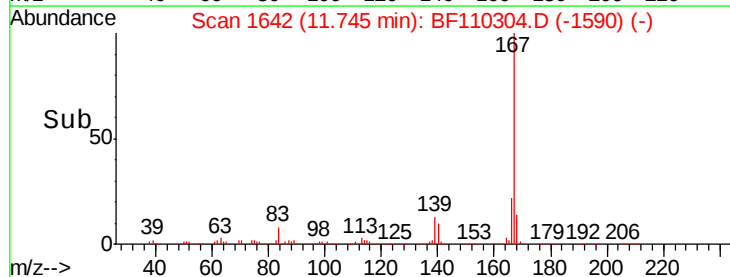
139 13.1 10.9 16.3

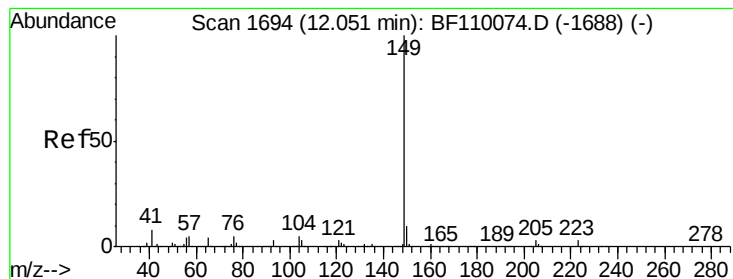


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Di-n-butylphthalate

Concen: 36.105 ng

RT: 12.06 min Scan# 1695

Delta R.T. 0.01 min

Lab File: BF110304.D

Acq: 30 Oct 2018 15:47

Instrument :

BNA_F

ClientSampleId :

RED-SHALEMS

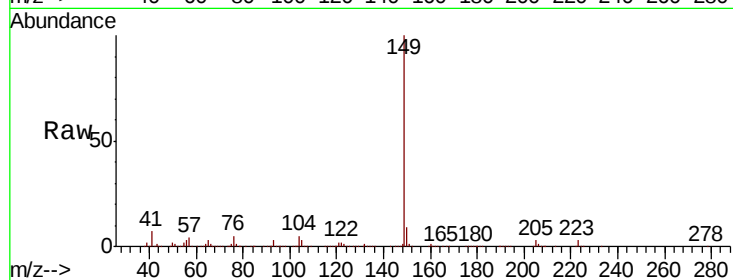
Tgt Ion:149 Resp: 728335

Ion Ratio Lower Upper

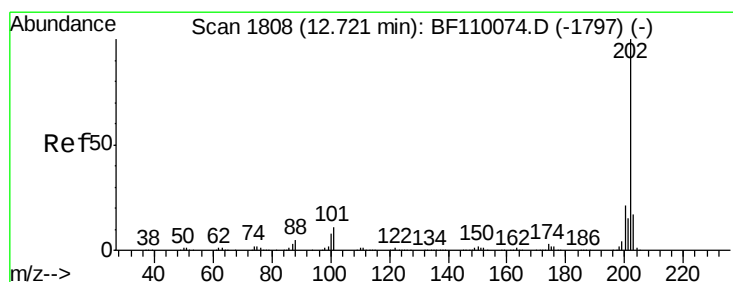
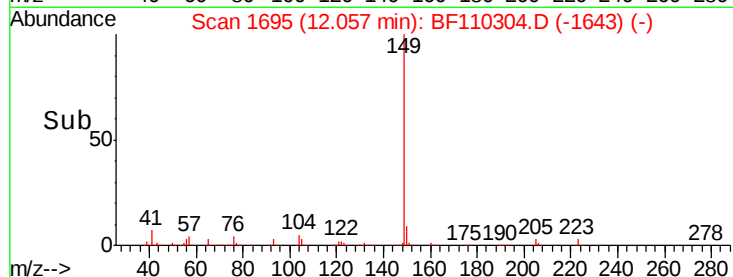
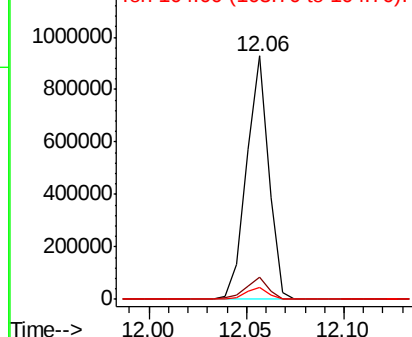
149 100

150 9.0 7.7 11.5

104 4.9 4.2 6.4



Abundance Ion 149.00 (148.70 to 149.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 104.00 (103.70 to 104.70): E



#75

Fluoranthene

Concen: 120.197 ng

RT: 12.74 min Scan# 1812

Delta R.T. 0.02 min

Lab File: BF110304.D

Acq: 30 Oct 2018 15:47

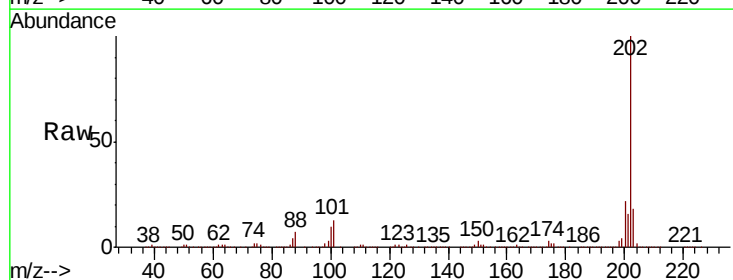
Tgt Ion:202 Resp: 2226302

Ion Ratio Lower Upper

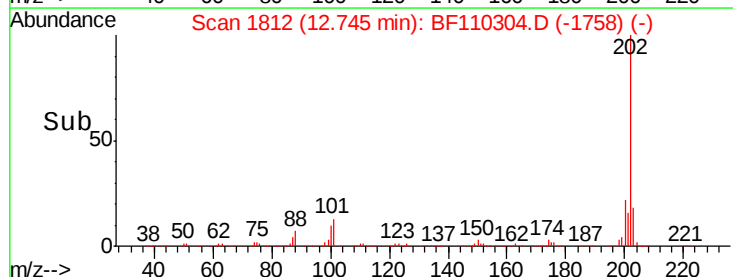
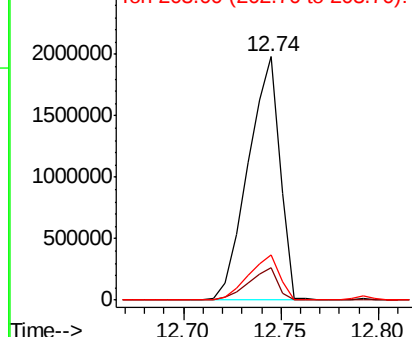
202 100

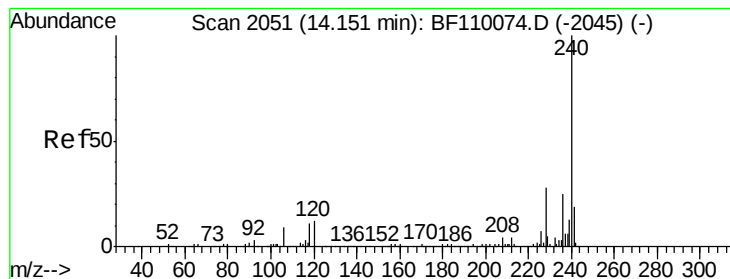
101 13.3 0.0 31.4

203 18.3 0.0 37.7



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

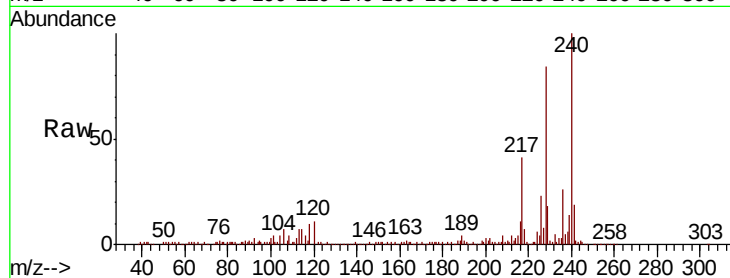




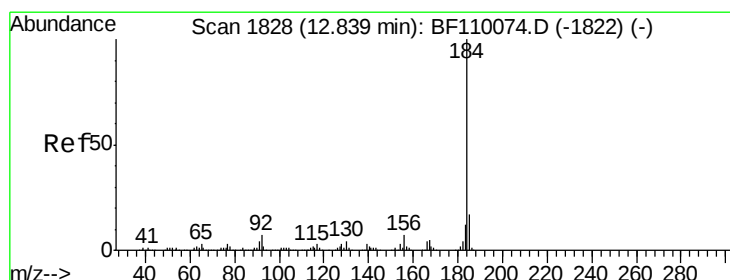
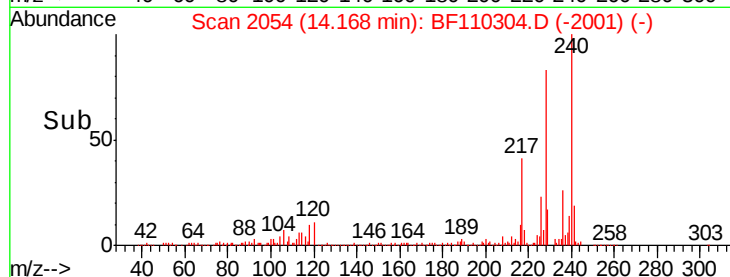
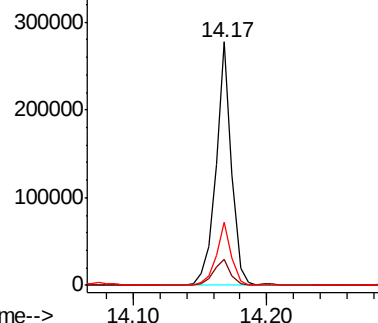
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.17 min Scan# 2054
Delta R.T. 0.01 min
Lab File: BF110304.D
Acq: 30 Oct 2018 15:47

Instrument :
BNA_F
ClientSampleId :
RED-SHALEMS

Tgt Ion:240 Resp: 222773
Ion Ratio Lower Upper
240 100
120 10.7 8.3 12.5
236 26.2 21.2 31.8

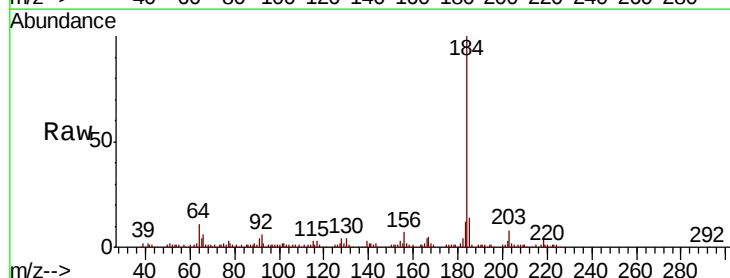


Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E

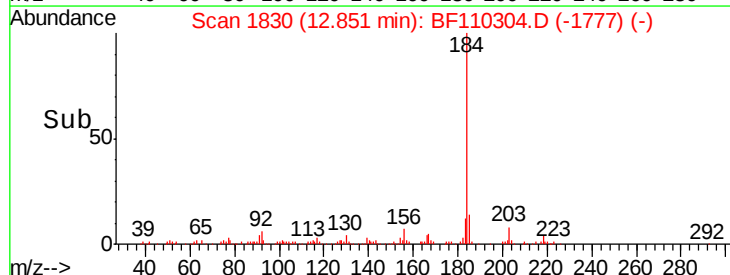
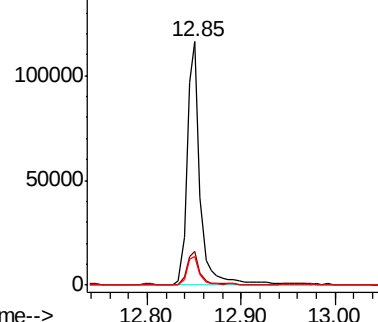


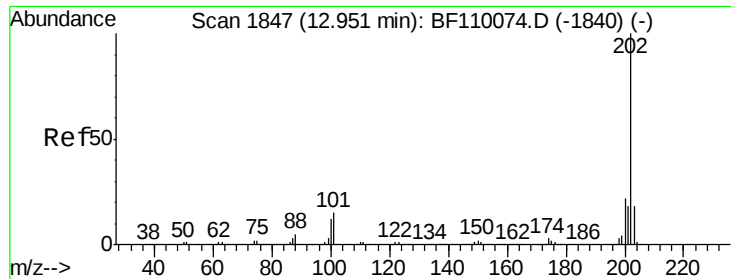
#77
Benzidine
Concen: 13.290 ng
RT: 12.85 min Scan# 1830
Delta R.T. 0.01 min
Lab File: BF110304.D
Acq: 30 Oct 2018 15:47

Tgt Ion:184 Resp: 114751
Ion Ratio Lower Upper
184 100
185 13.6 13.4 20.2
183 11.9 9.4 14.2



Abundance Ion 184.00 (183.70 to 184.70): E
Ion 185.00 (184.70 to 185.70): E
Ion 183.00 (182.70 to 183.70): E

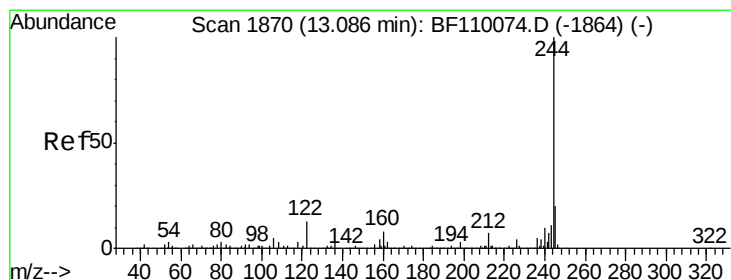
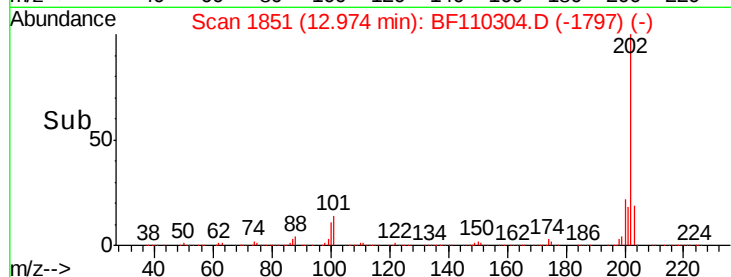
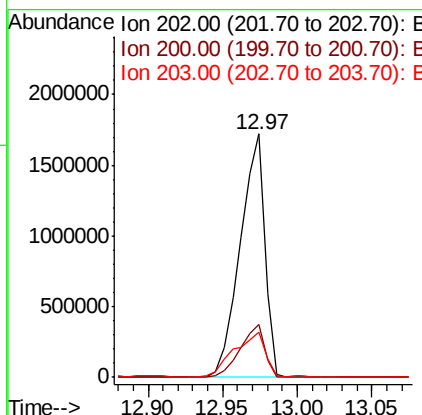
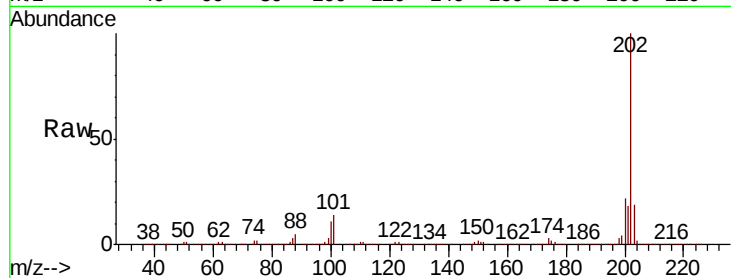




#78
 Pyrene
 Concen: 123.915 ng
 RT: 12.97 min Scan# 1851
 Delta R.T. 0.02 min
 Lab File: BF110304.D
 Acq: 30 Oct 2018 15:47

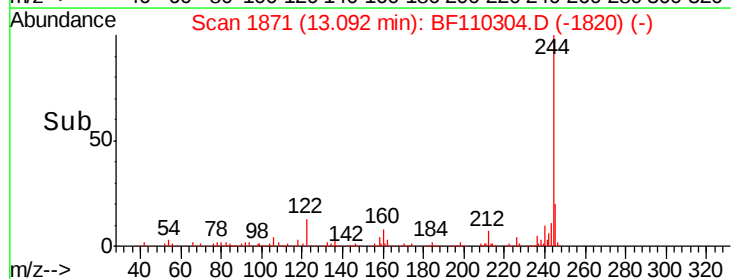
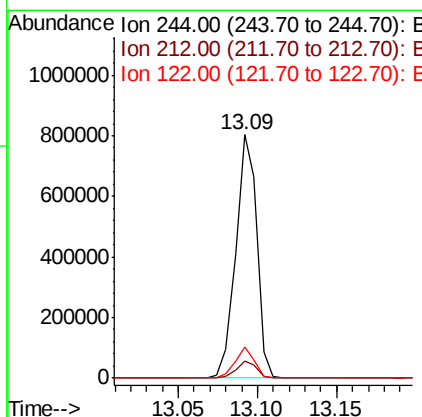
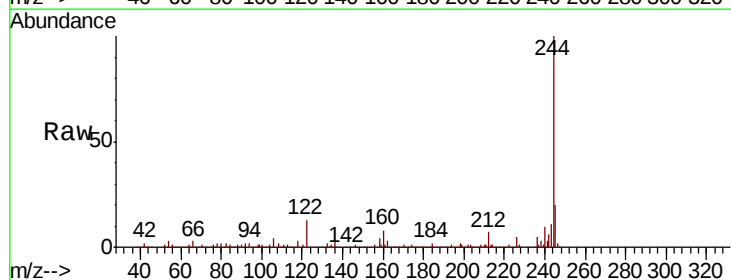
Instrument :
 BNA_F
 ClientSampleId :
 RED-SHALEMS

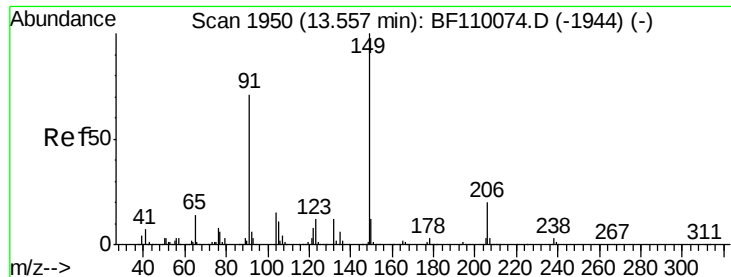
Tgt Ion: 202 Resp: 1979040
 Ion Ratio Lower Upper
 202 100
 200 21.8 17.8 26.6
 203 18.8 14.2 21.4



#79
 Terphenyl-d14
 Concen: 68.538 ng
 RT: 13.09 min Scan# 1871
 Delta R.T. -0.00 min
 Lab File: BF110304.D
 Acq: 30 Oct 2018 15:47

Tgt Ion: 244 Resp: 734161
 Ion Ratio Lower Upper
 244 100
 212 7.0 5.8 8.8
 122 12.8 8.7 13.1

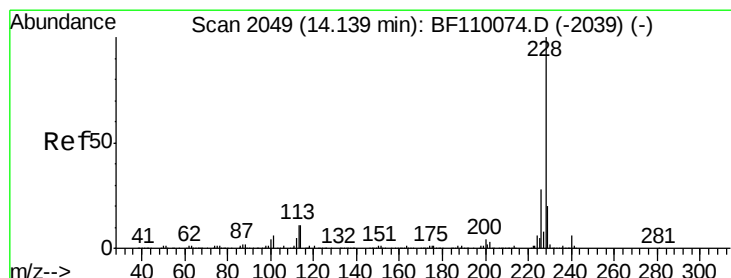
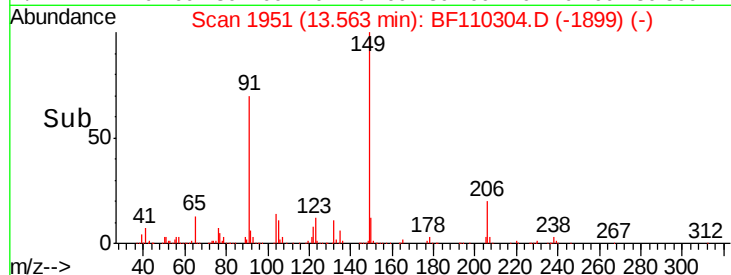
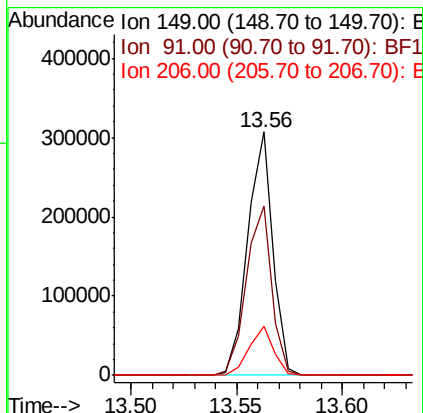
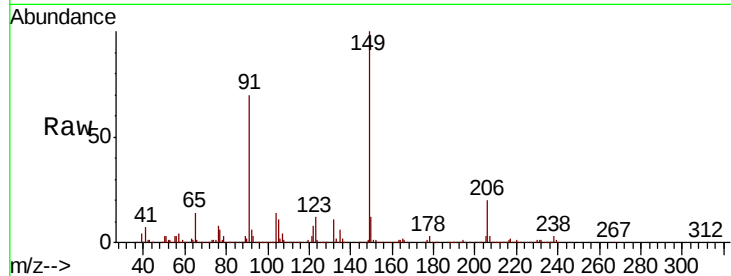




#80
Butylbenzylphthalate
Concen: 36.317 ng
RT: 13.56 min Scan# 1951
Delta R.T. 0.01 min
Lab File: BF110304.D
Acq: 30 Oct 2018 15:47

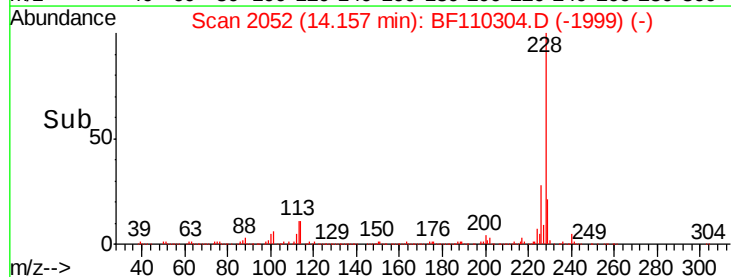
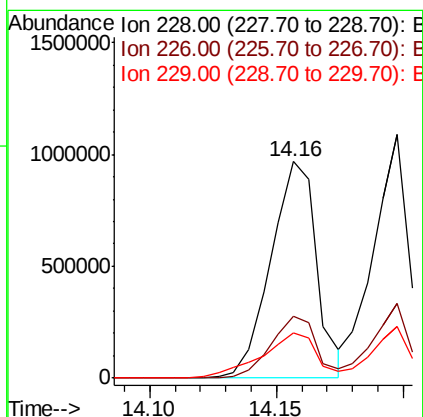
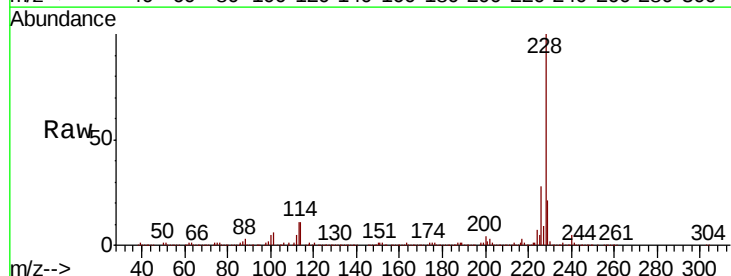
Instrument :
BNA_F
ClientSampleId :
RED-SHALEMS

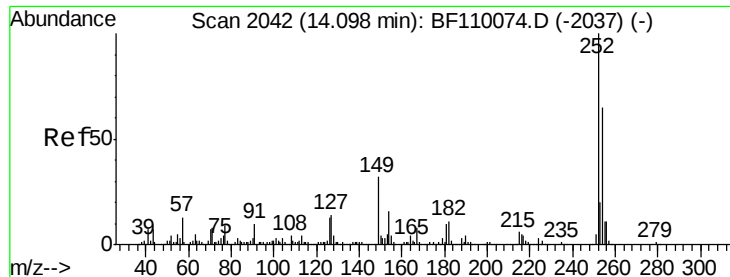
Tgt Ion	Ratio	Lower	Upper
149	100		
91	69.7	57.2	85.8
206	19.9	15.7	23.5



#81
Benzo(a)anthracene
Concen: 91.851 ng
RT: 14.16 min Scan# 2052
Delta R.T. 0.01 min
Lab File: BF110304.D
Acq: 30 Oct 2018 15:47

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.1	33.1
229	20.8	15.6	23.4

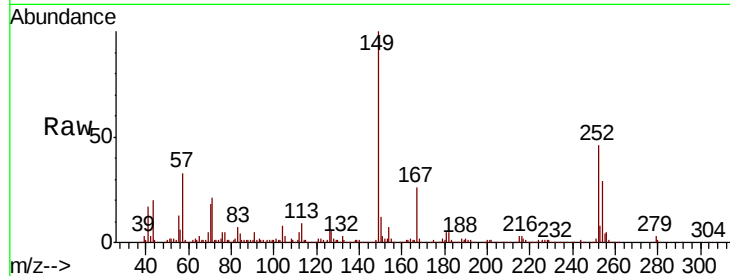




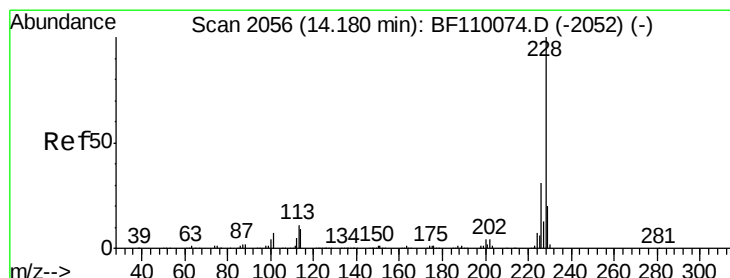
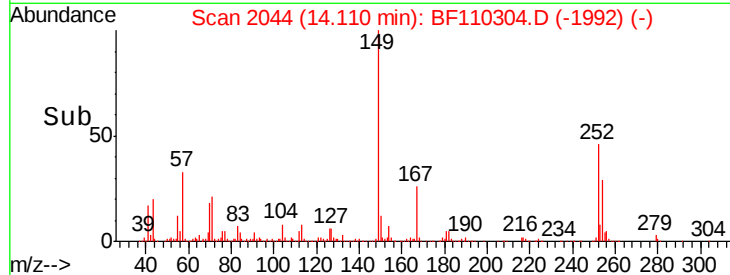
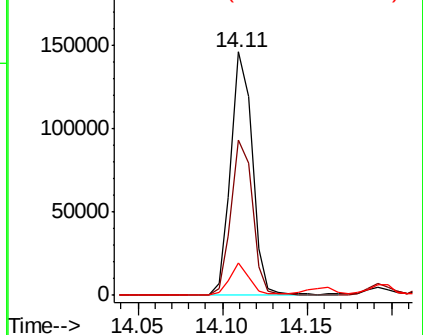
#82
 3,3'-Dichlorobenzidine
 Concen: 28.423 ng
 RT: 14.11 min Scan# 2044
 Delta R.T. 0.01 min
 Lab File: BF110304.D
 Acq: 30 Oct 2018 15:47

Instrument :
 BNA_F
 ClientSampleId :
 RED-SHALEMS

Tgt Ion:252 Resp: 130754
 Ion Ratio Lower Upper
 252 100
 254 64.0 51.3 76.9
 126 13.3 9.4 14.2

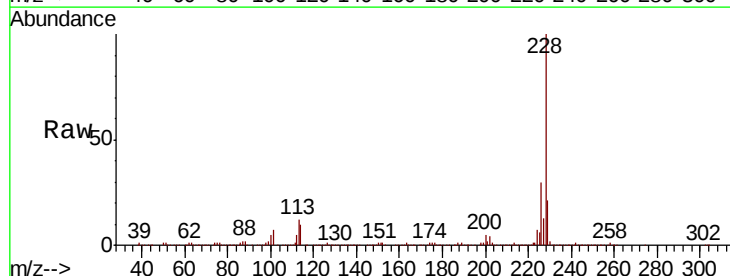


Abundance Ion 252.00 (251.70 to 252.70): E
 Ion 254.00 (253.70 to 254.70): E
 Ion 126.00 (125.70 to 126.70): E

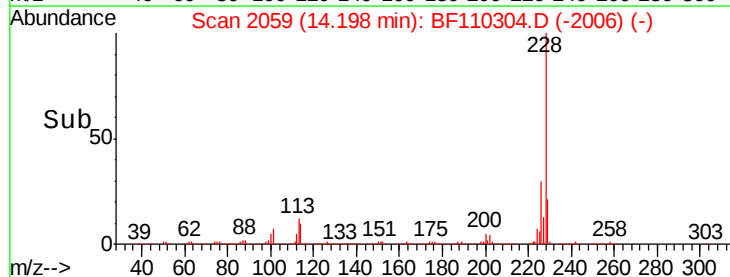
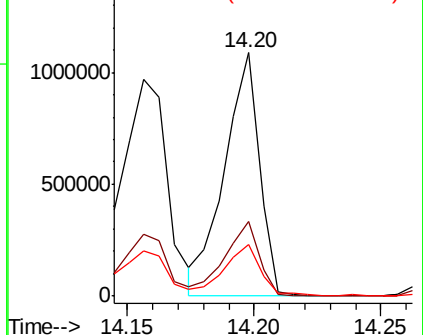


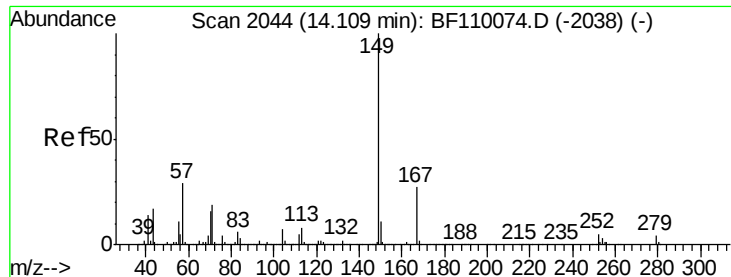
#83
 Chrysene
 Concen: 82.572 ng
 RT: 14.20 min Scan# 2059
 Delta R.T. 0.01 min
 Lab File: BF110304.D
 Acq: 30 Oct 2018 15:47

Tgt Ion:228 Resp: 1036096
 Ion Ratio Lower Upper
 228 100
 226 30.4 24.7 37.1
 229 21.4 15.9 23.9



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





#84

Bis(2-ethylhexyl)phthalate

Concen: 37.152 ng

RT: 14.12 min Scan# 2045

Delta R.T. 0.01 min

Lab File: BF110304.D

Acq: 30 Oct 2018 15:47

Instrument :

BNA_F

ClientSampleId :

RED-SHALEMS

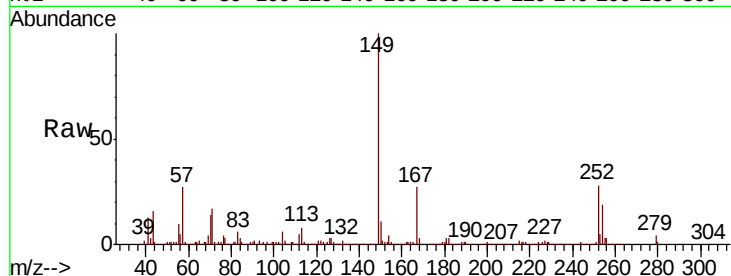
Tgt Ion:149 Resp: 348139

Ion Ratio Lower Upper

149 100

167 27.2 19.8 29.8

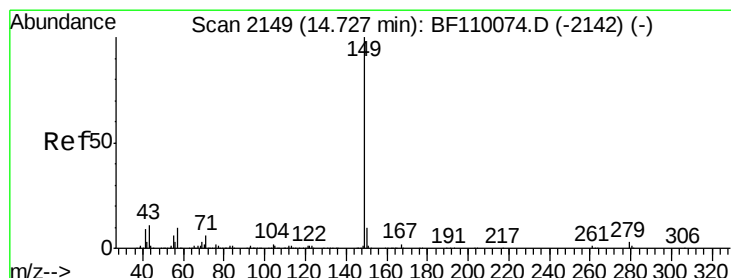
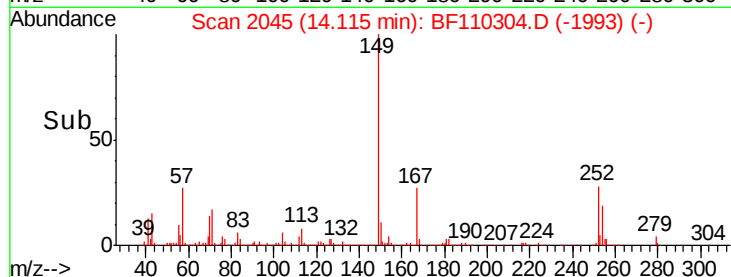
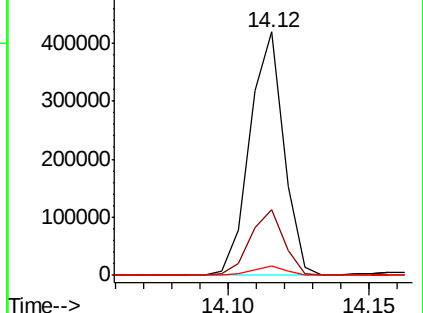
279 4.0 2.7 4.1



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#85

Di-n-octyl phthalate

Concen: 39.279 ng

RT: 14.73 min Scan# 2150

Delta R.T. 0.00 min

Lab File: BF110304.D

Acq: 30 Oct 2018 15:47

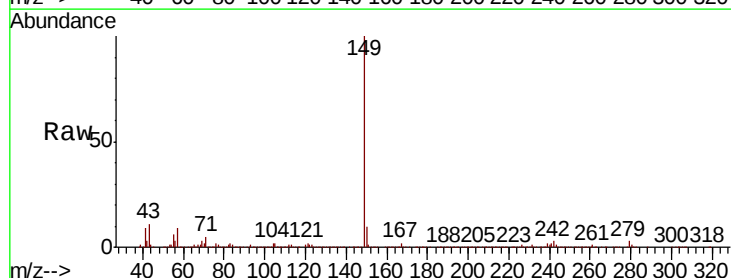
Tgt Ion:149 Resp: 572323

Ion Ratio Lower Upper

149 100

167 2.0 1.1 1.7#

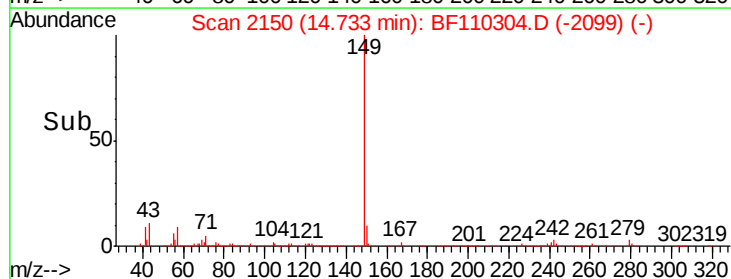
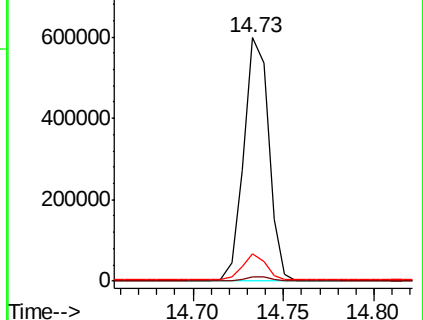
43 10.2 7.8 11.8

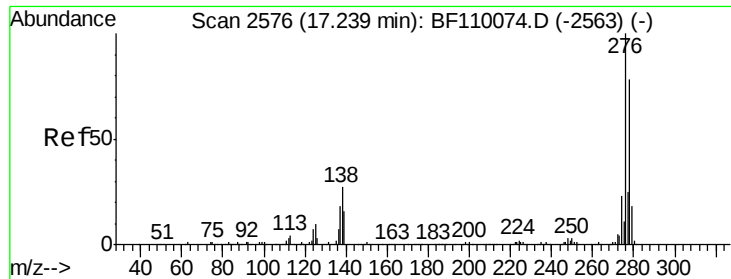


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 43.00 (42.70 to 43.70): BF1





#86

Indeno(1,2,3-cd)pyrene

Concen: 58.510 ng

RT: 17.29 min Scan# 2585

Delta R.T. 0.03 min

Lab File: BF110304.D

Acq: 30 Oct 2018 15:47

Instrument :

BNA_F

ClientSampleId :

RED-SHALEMS

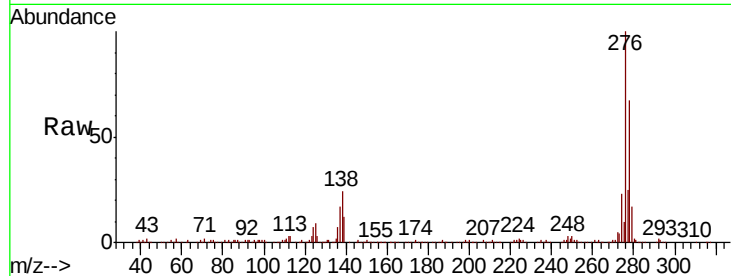
Tgt Ion:276 Resp: 609067

Ion Ratio Lower Upper

276 100

138 24.1 18.5 27.7

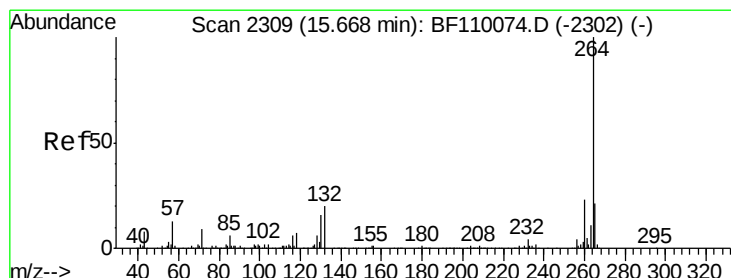
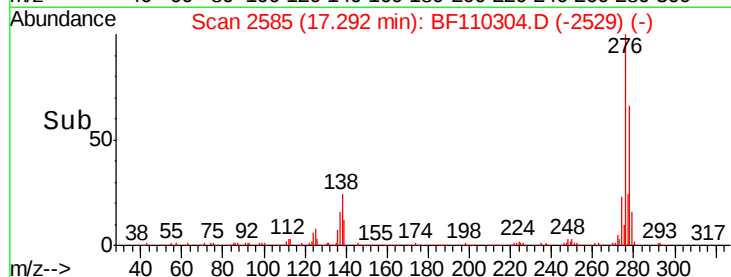
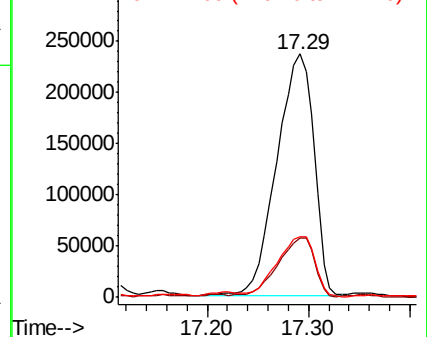
277 25.0 20.0 30.0



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



#87

Perylene-d12

Concen: 20.000 ng

RT: 15.70 min Scan# 2314

Delta R.T. 0.01 min

Lab File: BF110304.D

Acq: 30 Oct 2018 15:47

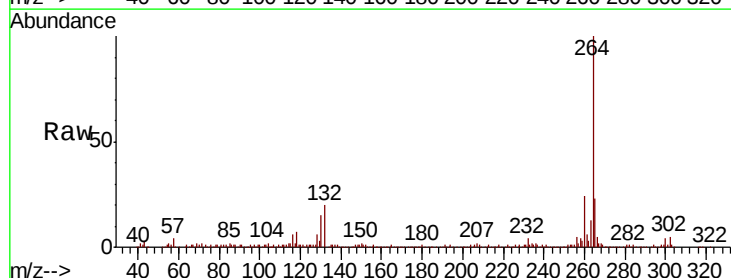
Tgt Ion:264 Resp: 190845

Ion Ratio Lower Upper

264 100

260 24.0 18.7 28.1

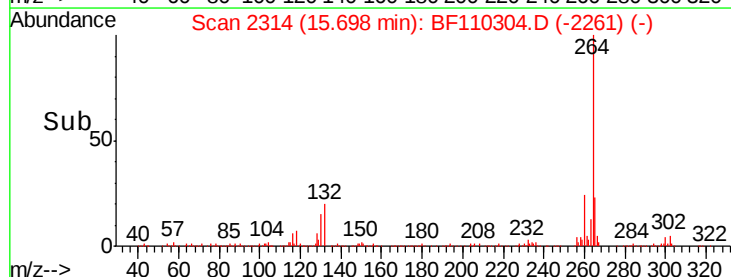
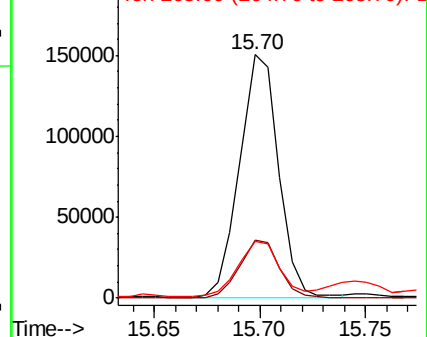
265 23.4 16.7 25.1

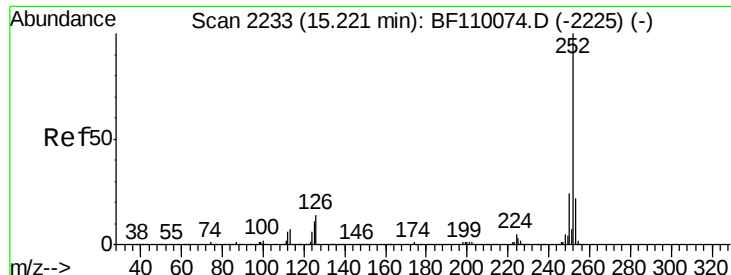


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

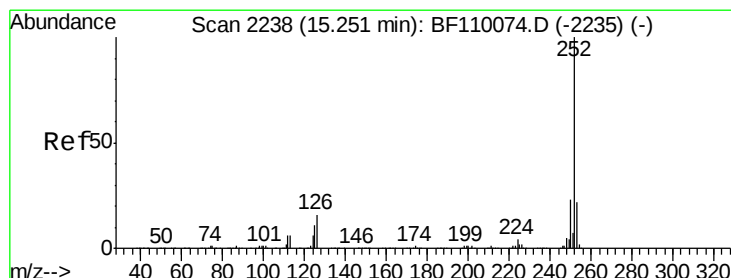
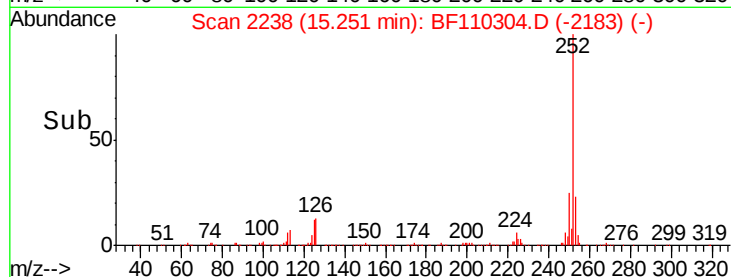
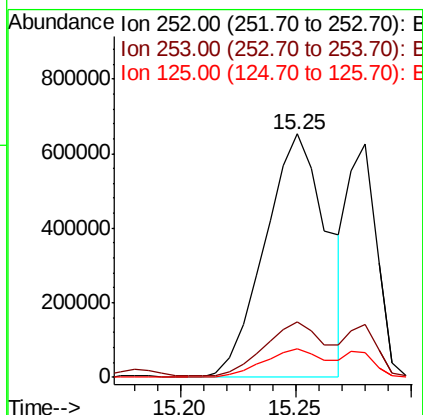
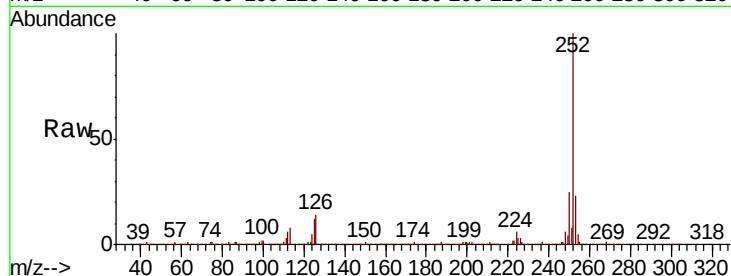




#88
Benzo(b)fluoranthene
Concen: 110.278 ng
RT: 15.25 min Scan# 2238
Delta R.T. 0.02 min
Lab File: BF110304.D
Acq: 30 Oct 2018 15:47

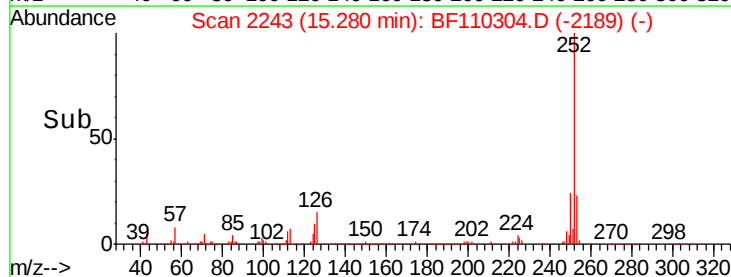
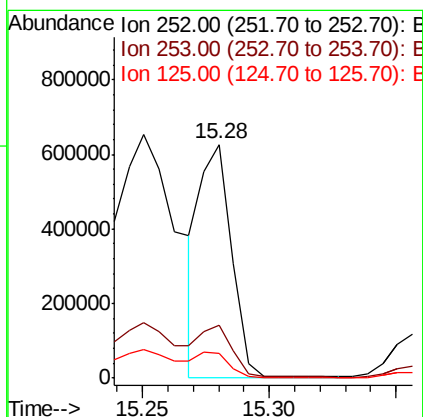
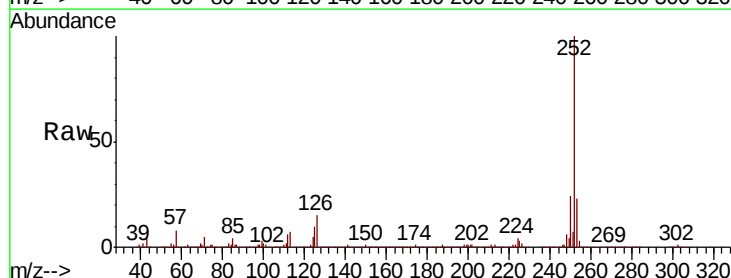
Instrument :
BNA_F
ClientSampleId :
RED-SHALEMS

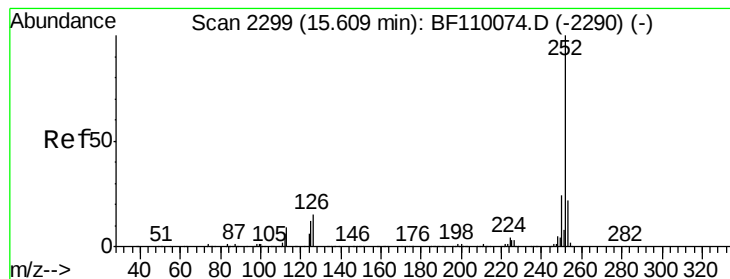
Tgt Ion:252 Resp: 1215325
Ion Ratio Lower Upper
252 100
253 22.7 17.2 25.8
125 12.0 8.2 12.4



#89
Benzo(k)fluoranthene
Concen: 50.020 ng
RT: 15.28 min Scan# 2243
Delta R.T. 0.02 min
Lab File: BF110304.D
Acq: 30 Oct 2018 15:47

Tgt Ion:252 Resp: 541937
Ion Ratio Lower Upper
252 100
253 22.9 17.2 25.8
125 10.5 7.4 11.0





#90

Benzo(a)pyrene

Concen: 86.822 ng

RT: 15.64 min Scan# 2305

Delta R.T. 0.02 min

Lab File: BF110304.D

Acq: 30 Oct 2018 15:47

Instrument :

BNA_F

ClientSampleId :

RED-SHALEMS

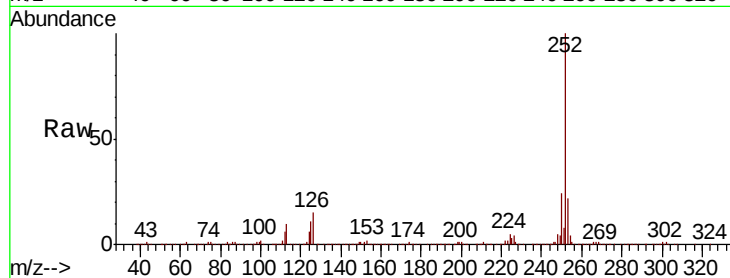
Tgt Ion:252 Resp: 880439

Ion Ratio Lower Upper

252 100

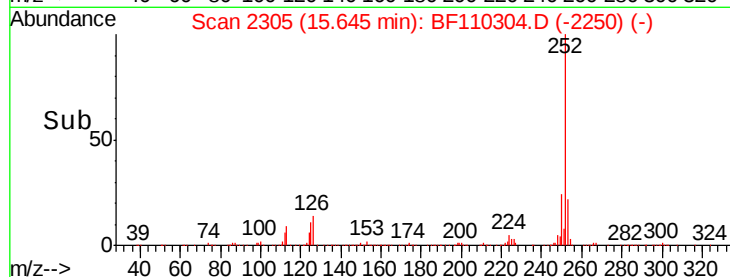
253 22.0 18.2 27.4

125 11.4 9.0 13.6

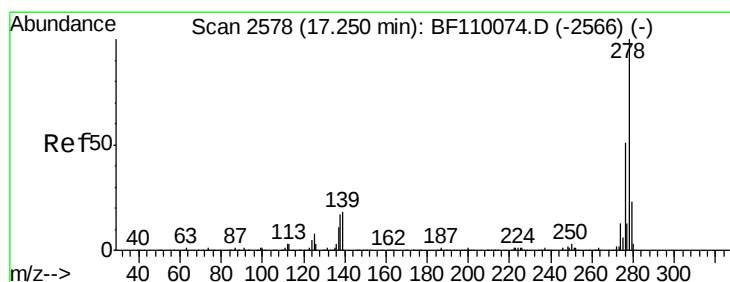


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

15.64



Time-->



#91

Dibenzo(a,h)anthracene

Concen: 39.096 ng

RT: 17.30 min Scan# 2587

Delta R.T. 0.03 min

Lab File: BF110304.D

Acq: 30 Oct 2018 15:47

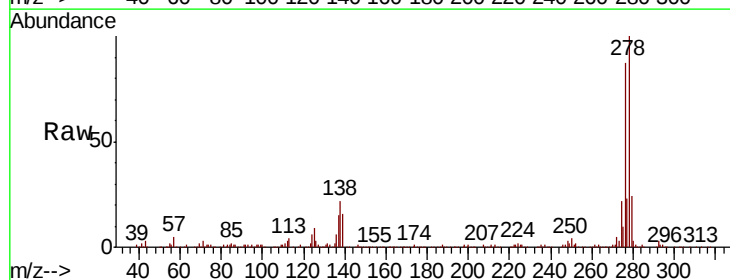
Tgt Ion:278 Resp: 342093

Ion Ratio Lower Upper

278 100

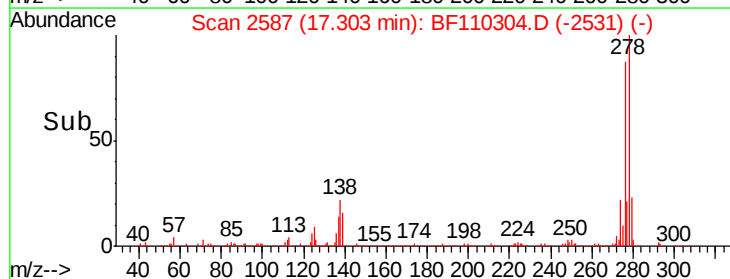
139 16.0 12.7 19.1

279 23.7 19.0 28.4

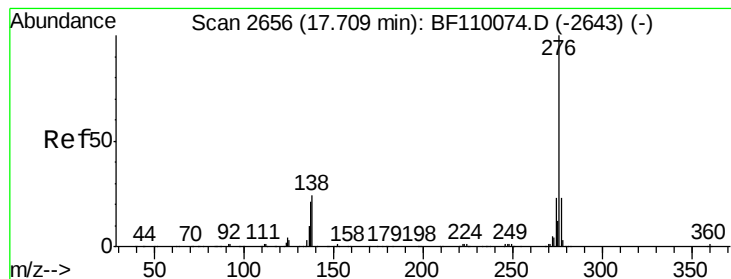


Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E

17.30



Time-->



#92

Benzo(g,h,i)perylene

Concen: 60.778 ng

RT: 17.77 min Scan# 2667

Delta R.T. 0.04 min

Lab File: BF110304.D

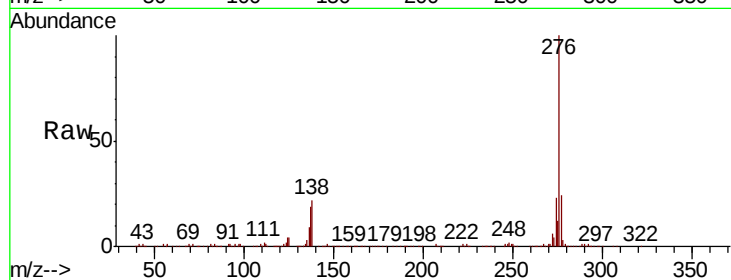
Acq: 30 Oct 2018 15:47

Instrument :

BNA_F

ClientSampleId :

RED-SHALEMS



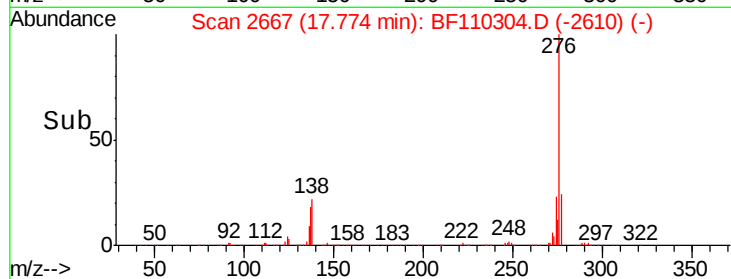
Tgt Ion: 276 Resp: 524049

Ion Ratio Lower Upper

276 100

277 23.9 18.8 28.2

138 22.1 16.0 24.0



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

