

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100920\
 Data File : BF121909.D
 Acq On : 9 Oct 2020 16:42
 Operator : JU/CG
 Sample : L4309-03DL 10X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OWLS-HEAD-BH-04-ADL

Quant Time: Oct 09 17:24:53 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 01 14:29:14 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.76	152	120025	20.00	ng	-0.01
21) Naphthalene-d8	8.04	136	479641	20.00	ng	-0.02
39) Acenaphthene-d10	9.79	164	234329	20.00	ng	-0.02
64) Phenanthrene-d10	11.28	188	385508	20.00	ng	-0.01
76) Chrysene-d12	13.92	240	270810	20.00	ng	-0.01
86) Perylene-d12	15.36	264	313791	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.40	112	7589	0.94	ng	0.01
7) Phenol-d6	6.42	99	31510	2.97	ng	0.00
23) Nitrobenzene-d5	7.33	82	34585	3.87	ng	-0.01
42) 2,4,6-Tribromophenol	0.00	330	0	0.00	ng	
45) 2-Fluorobiphenyl	9.12	172	74390	4.81	ng	-0.02
79) Terphenyl-d14	12.86	244	58289	4.36	ng	-0.02

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	2.51	88	516	0.139	ng	# 28
15) Benzyl Alcohol	6.76	79	3438	0.477	ng	# 36
18) Hexachloroethane	7.02	117	292	0.088	ng	# 3
19) n-Nitroso-di-n-propylamine	7.33	70	4150	0.680	ng	# 88
25) Isophorone	7.33	82	34585	1.923	ng	# 67
31) Naphthalene	8.06	128	6962	0.275	ng	# 98
33) 4-Chloroaniline	8.06	127	708	0.065	ng	# 29
37) 2-Methylnaphthalene	8.76	142	1685	0.102	ng	# 83
38) 1-Methylnaphthalene	8.86	142	918	0.059	ng	# 74
46) 1,1'-Biphenyl	9.22	154	515	0.027	ng	# 42
49) Acenaphthylene	9.65	152	181699	8.000	ng	# 99
50) Dimethylphthalate	9.52	163	6270	0.369	ng	# 96
51) 2,6-Dinitrotoluene	9.79	165	30085	8.318	ng	# 21
52) Acenaphthene	9.83	154	3150	0.220	ng	# 90
55) Dibenzofuran	10.00	168	7209	0.357	ng	# 91
56) 4-Nitrophenol	10.00	139	2744	0.821	ng	# 10
57) 2,4-Dinitrotoluene	9.79	165	30085	6.612	ng	# 20
58) Fluorene	10.35	166	19676	1.274	ng	# 93
63) Azobenzene	10.50	77	493	0.028	ng	# 1
66) n-Nitrosodiphenylamine	10.45	169	155	0.012	ng	# 1
71) Phenanthrene	11.30	178	279087	13.287	ng	# 98
72) Anthracene	11.35	178	166611	7.687	ng	# 99
73) Carbazole	11.52	167	9918	0.507	ng	# 96
74) Di-n-butylphthalate	11.83	149	119	0.005	ng	# 78
75) Fluoranthene	12.50	202	1129871	50.392	ng	# 98
77) Benzidine	12.86	184	715	0.080	ng	# 61
78) Pyrene	12.72	202	1023361	51.721	ng	# 100
80) Butylbenzylphthalate	13.34	149	352	0.044	ng	# 77
81) Benzo(a)anthracene	13.94	228	596104	34.793	ng	# 96
82) 3,3'-Dichlorobenzidine	13.95	252	4565	0.682	ng	# 1
83) Chrysene	13.94	228	596104	34.359	ng	# 98
84) Bis(2-ethylhexyl)phthalate	13.92	149	3961	0.371	ng	# 54
85) Di-n-octyl phthalate	14.51	149	336	0.018	ng	# 1
87) Indeno(1,2,3-cd)pyrene	16.78	276	399273	19.539	ng	# 94

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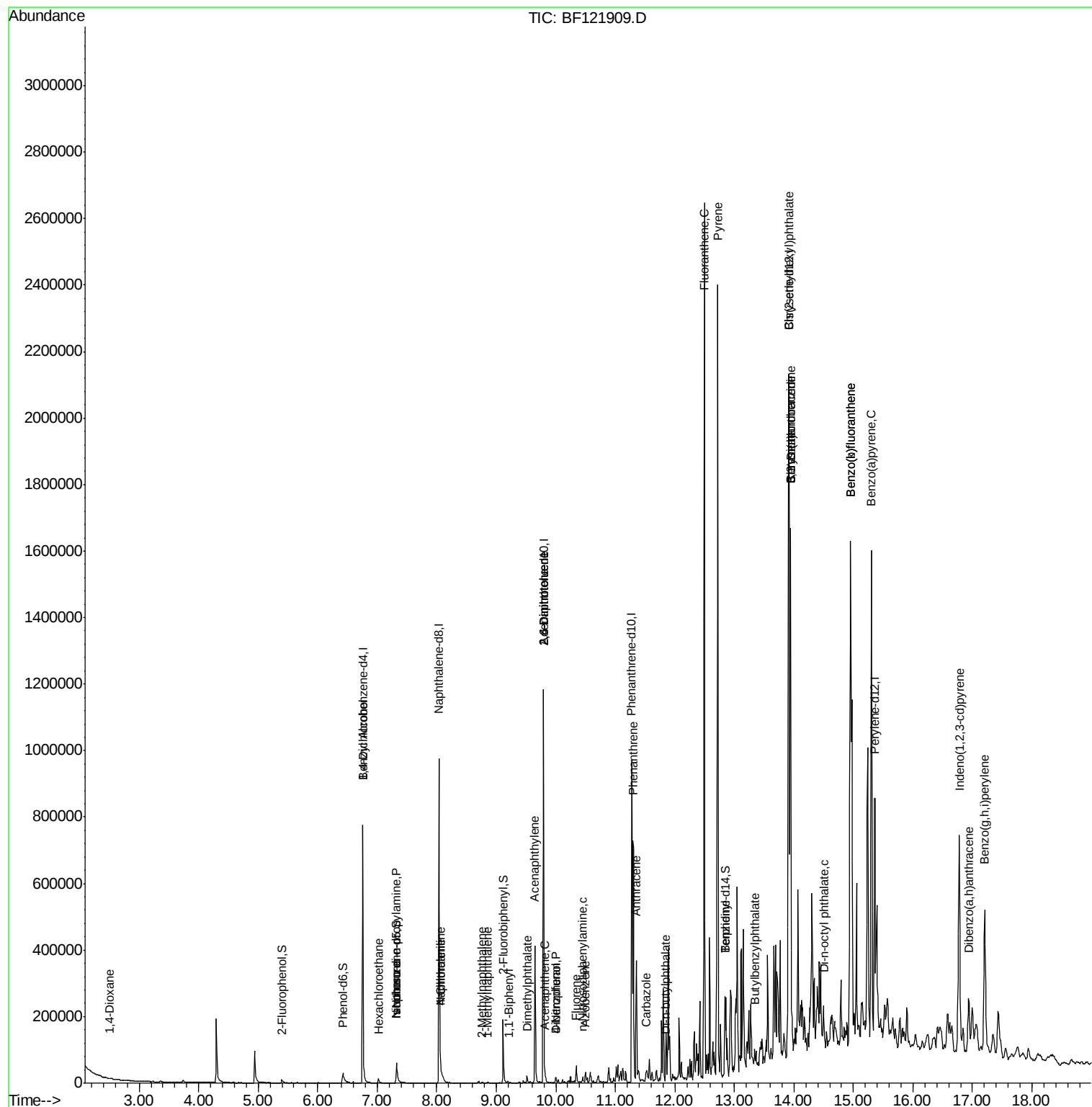
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
88) Benzo(b)fluoranthene	14.95	252	1181549	56.325	ng	98
89) Benzo(k)fluoranthene	14.95	252	1181549	61.508	ng #	97
90) Benzo(a)pyrene	15.30	252	628129	35.226	ng	97
91) Dibenzo(a,h)anthracene	16.94	278	104748	6.158	ng	95
92) Benzo(g,h,i)perylene	17.21	276	329569	19.710	ng	98

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

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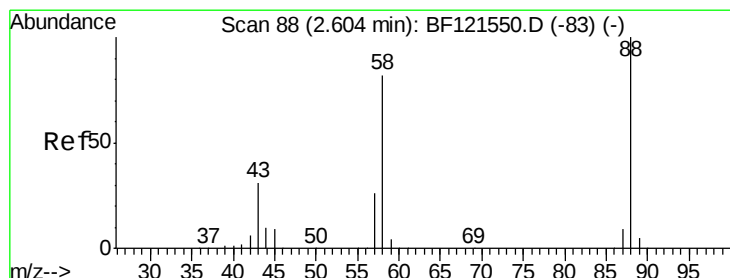
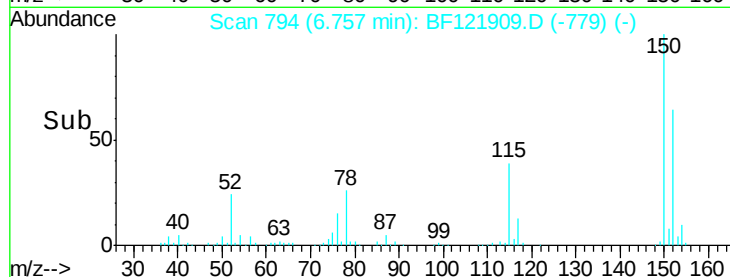
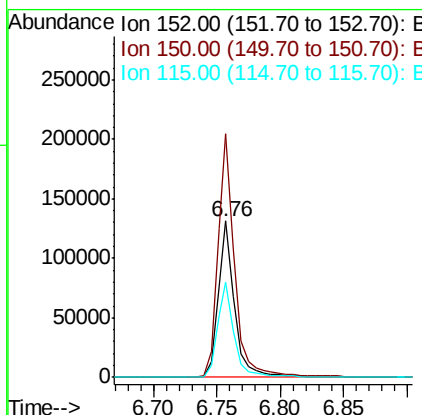
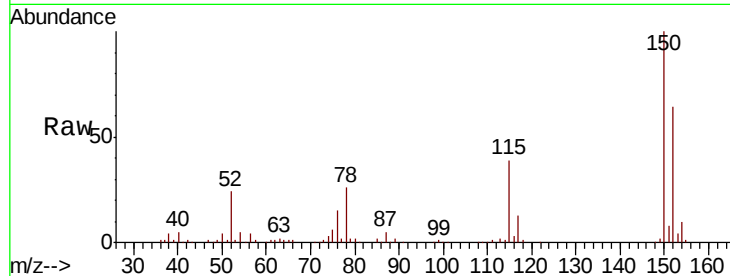


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.76 min Scan# 794
Delta R.T. -0.01 min
Lab File: BF121909.D
Acq: 9 Oct 2020 16:42

Instrument :
BNA_F
ClientSampleId :
OWLS-HEAD-BH-04-ADL

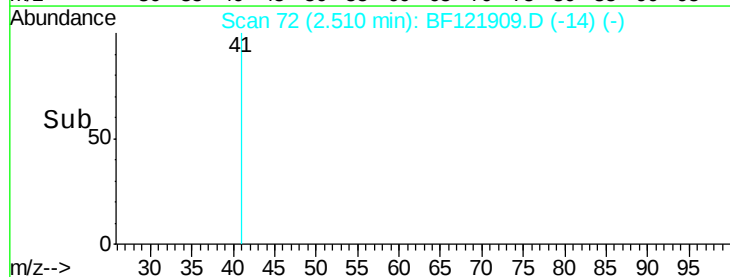
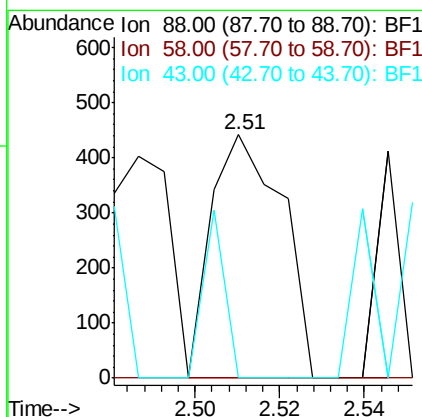
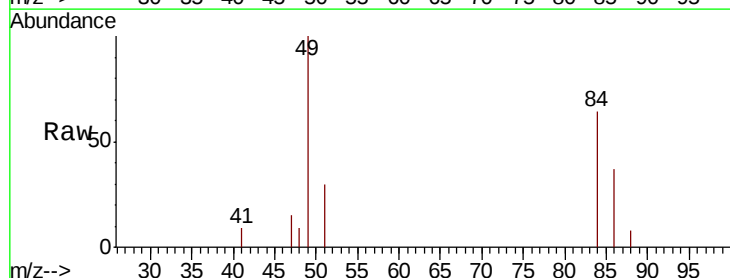
Tot Ion:152 Resp: 120025
Ion Ratio Lower Upper
152 100
150 155.7 125.3 187.9
115 61.0 51.9 77.9

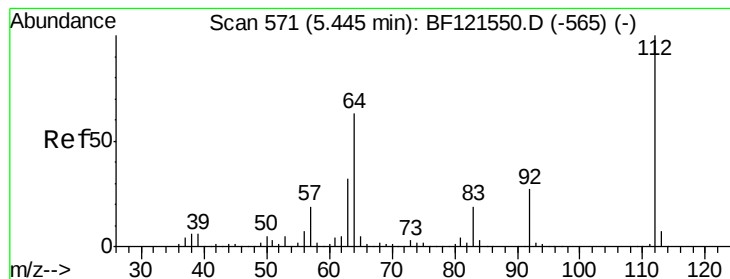


#2

1,4-Dioxane
Concen: 0.139 ng
RT: 2.51 min Scan# 72
Delta R.T. 0.04 min
Lab File: BF121909.D
Acq: 9 Oct 2020 16:42

Tgt Ion: 88 Resp: 516
Ion Ratio Lower Upper
88 100
58 0.0 65.8 98.8#
43 20.9 25.8 38.8#





#5

2-Fluorophenol

Concen: 0.940 ng

RT: 5.40 min Scan# 563

Delta R.T. 0.01 min

Lab File: BF121909.D

Acq: 9 Oct 2020 16:42

Instrument :

BNA_F

ClientSampleId :

OWLS-HEAD-BH-04-ADL

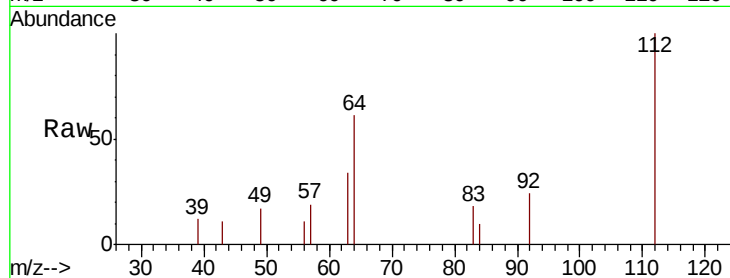
Tot Ion:112 Resp: 7589

Ion Ratio Lower Upper

112 100

64 61.0 50.4 75.6

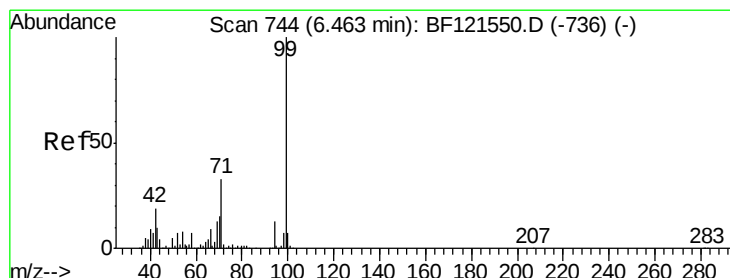
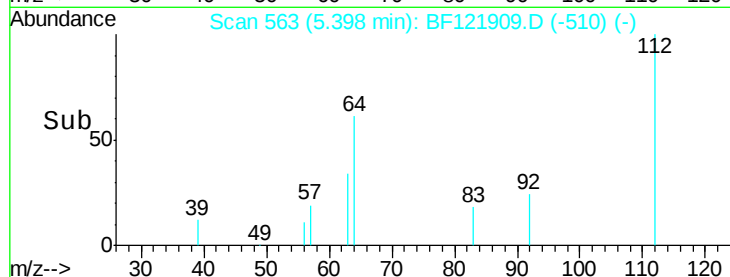
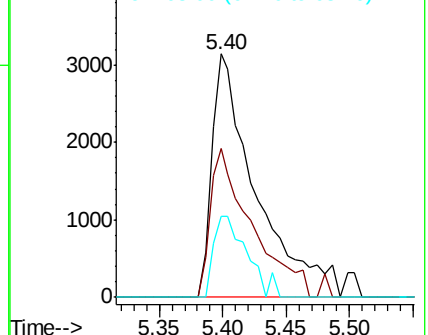
63 33.5 25.8 38.6



Abundance Ion 112.00 (111.70 to 112.70): BF1

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1



#7

Phenol-d6

Concen: 2.974 ng

RT: 6.42 min Scan# 736

Delta R.T. 0.00 min

Lab File: BF121909.D

Acq: 9 Oct 2020 16:42

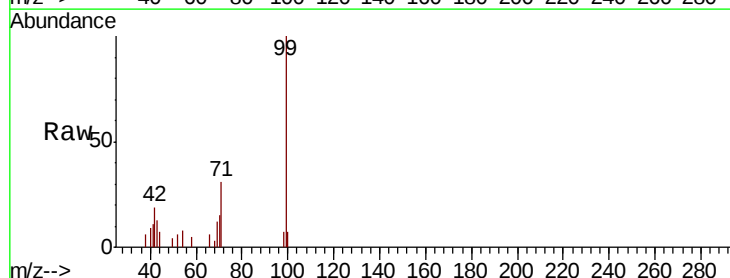
Tgt Ion: 99 Resp: 31510

Ion Ratio Lower Upper

99 100

42 19.5 15.9 23.9

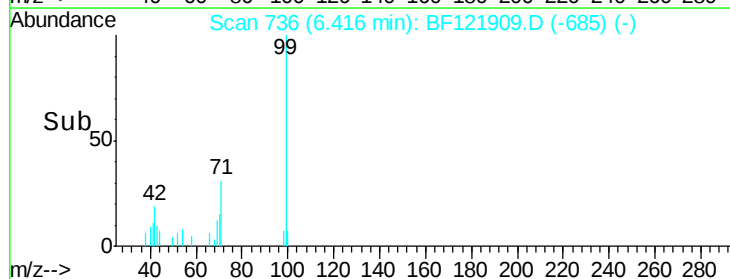
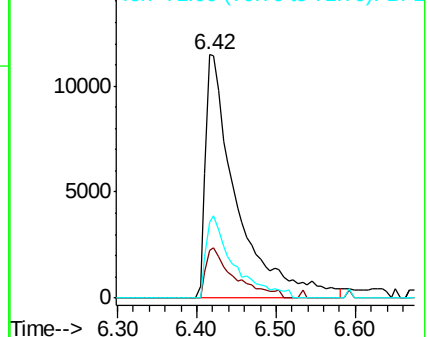
71 31.2 27.1 40.7

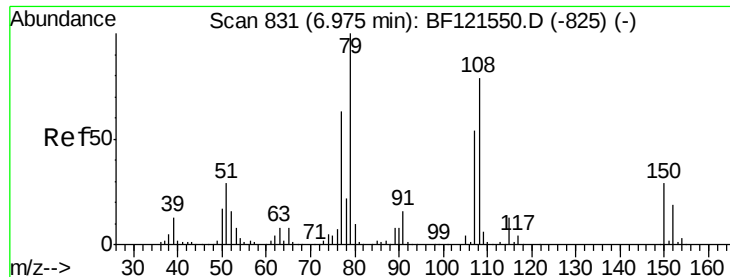


Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1





#15

Benzyl Alcohol

Concen: 0.477 ng

RT: 6.76 min Scan# 794

Delta R.T. -0.16 min

Lab File: BF121909.D

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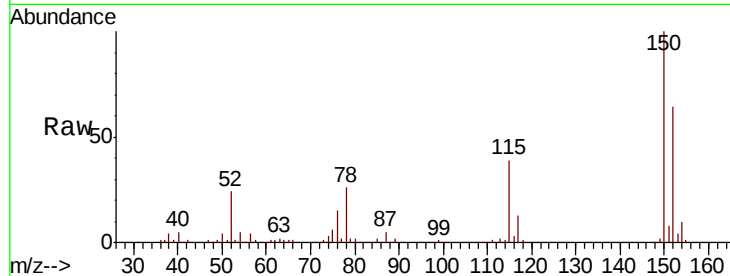
Tot Ion: 79 Resp: 3438

Ion Ratio Lower Upper

79 100

108 12.6 62.3 93.5#

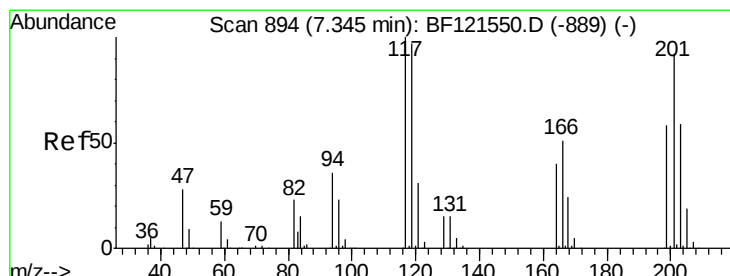
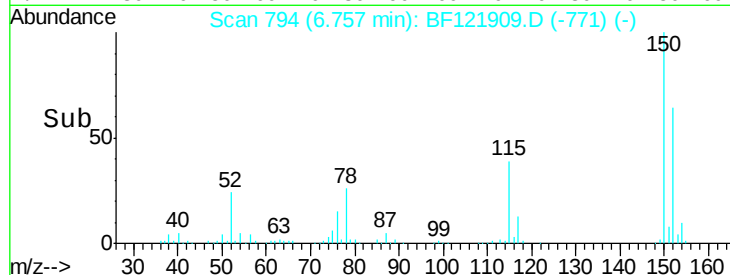
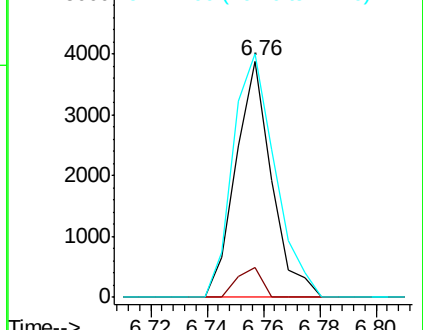
77 103.1 50.6 75.8#



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



#18

Hexachloroethane

Concen: 0.088 ng

RT: 7.02 min Scan# 839

Delta R.T. -0.26 min

Lab File: BF121909.D

Acq: 9 Oct 2020 16:42

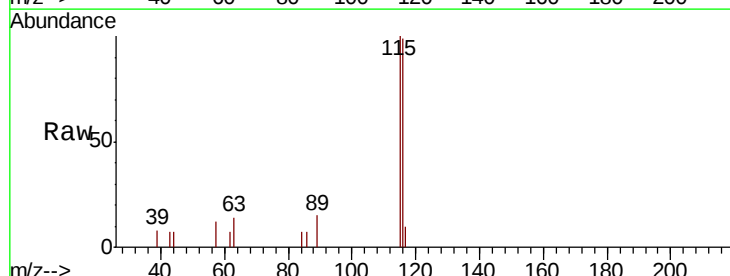
Tgt Ion: 117 Resp: 292

Ion Ratio Lower Upper

117 100

119 0.0 76.3 114.5#

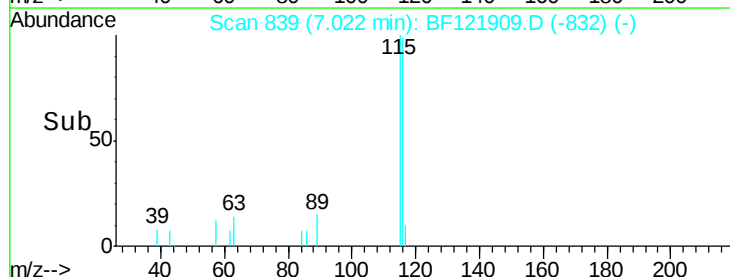
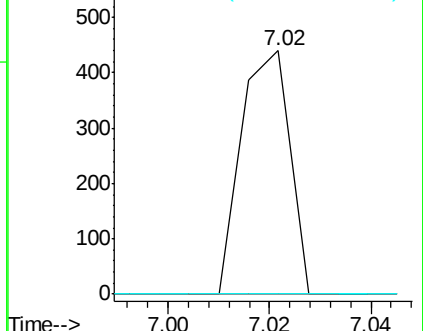
201 0.0 71.8 107.6#

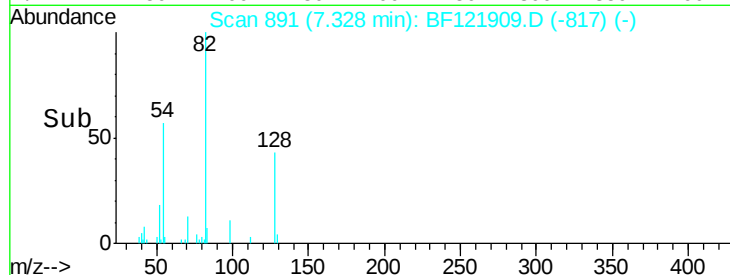
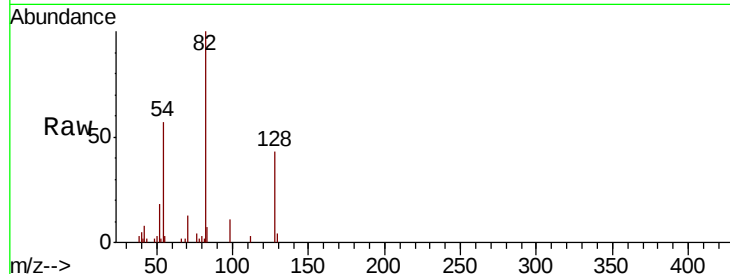
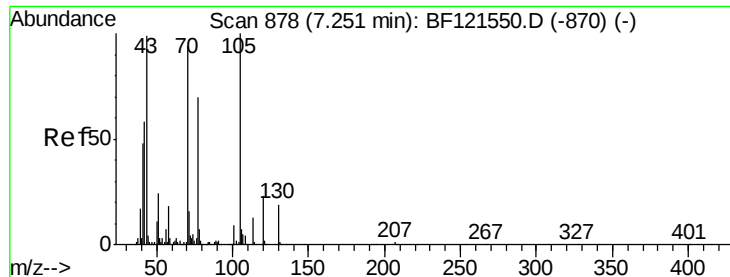


Abundance Ion 117.00 (116.70 to 117.70): BF1

Ion 119.00 (118.70 to 119.70): BF1

Ion 201.00 (200.70 to 201.70): BF1

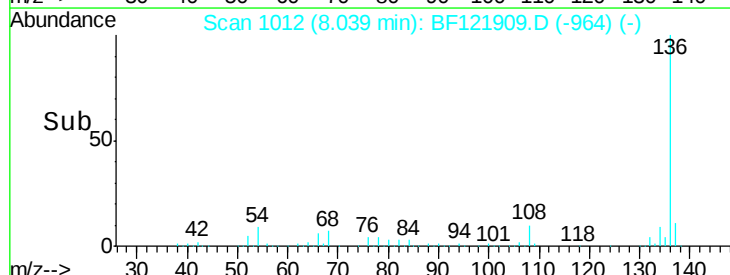
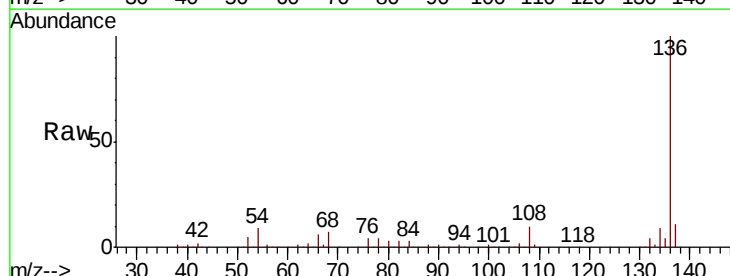
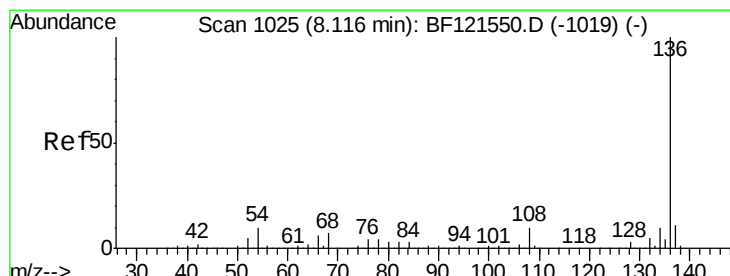
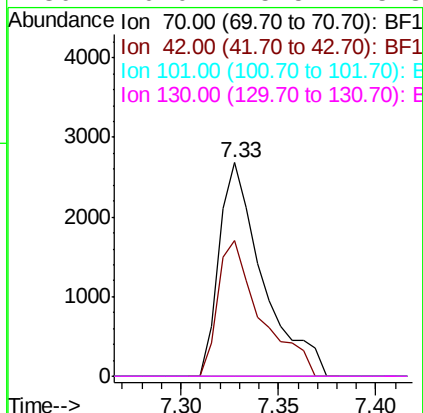




#19
n-Nitroso-di-n-propylamine
Concen: 0.680 ng
RT: 7.33 min Scan# 891
Delta R.T. 0.14 min
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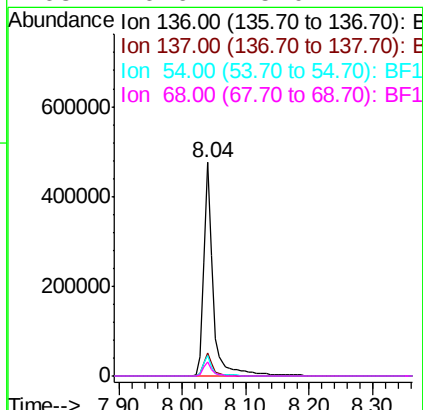
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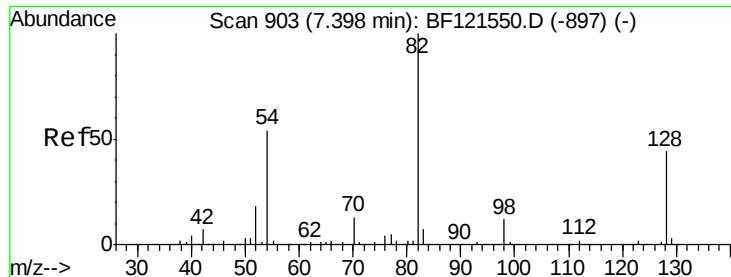
Tot Ion: 70 Resp: 4150
Ion Ratio Lower Upper
70 100
42 63.3 50.2 75.4
101 0.0 7.5 11.3#
130 0.0 15.5 23.3#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.04 min Scan# 1012
Delta R.T. -0.02 min
Lab File: BF121909.D
Acq: 9 Oct 2020 16:42

Tgt Ion: 136 Resp: 479641
Ion Ratio Lower Upper
136 100
137 10.7 8.6 13.0
54 9.4 7.1 10.7
68 6.6 5.0 7.4

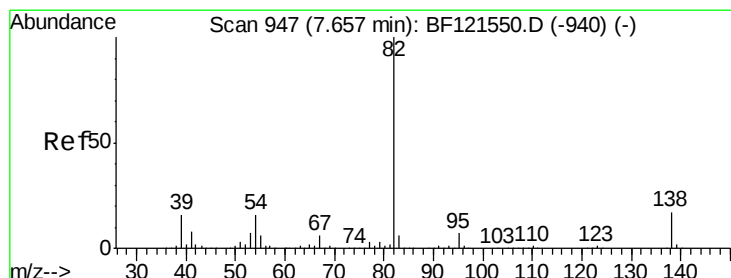
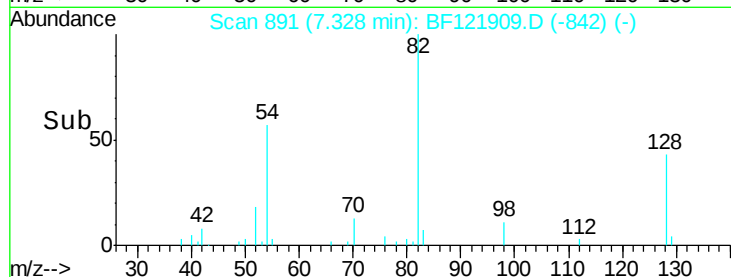
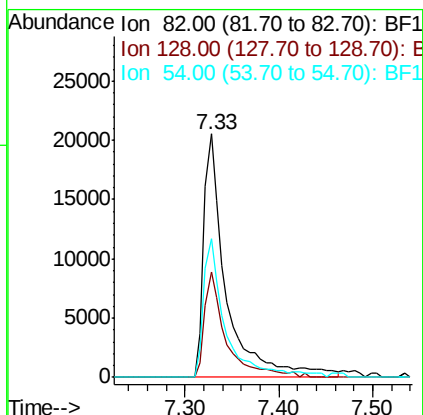
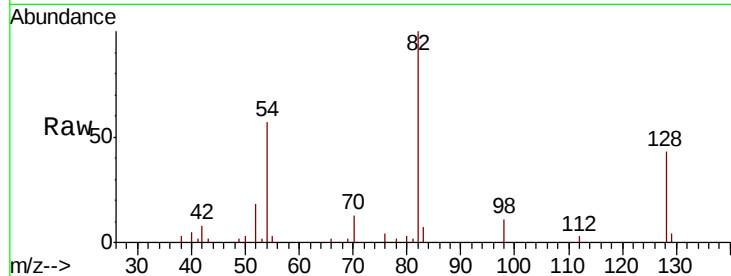




#23
Nitrobenzene-d5
Concen: 3.872 ng
RT: 7.33 min Scan# 891
Delta R.T. -0.01 min
Lab File: BF121909.D
Acq: 9 Oct 2020 16:42

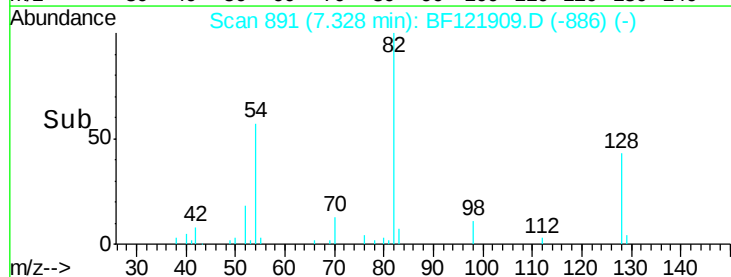
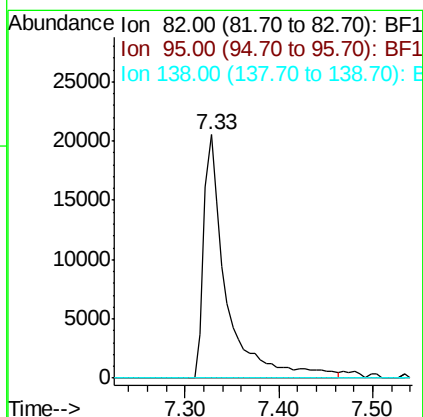
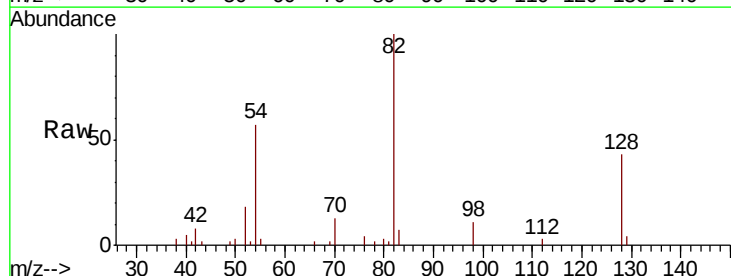
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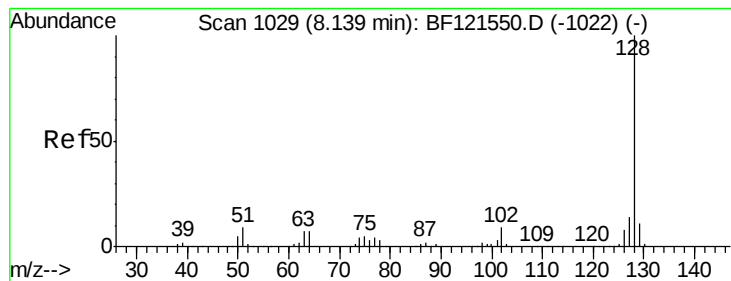
Tot Ion	82	Resp	34585
Ion Ratio	100	Lower	Upper
128	43.2	35.0	52.4
54	56.8	43.9	65.9



#25
Isophorone
Concen: 1.923 ng
RT: 7.33 min Scan# 891
Delta R.T. -0.27 min
Lab File: BF121909.D
Acq: 9 Oct 2020 16:42

Tgt Ion	82	Resp	34585
Ion Ratio	100	Lower	Upper
95	0.0	5.4	8.0#
138	0.0	13.4	20.0#





#31

Naphthalene

Concen: 0.275 ng

RT: 8.06 min Scan# 1016

Delta R.T. -0.02 min

Lab File: BF121909.D

Acq: 9 Oct 2020 16:42

Instrument :

BNA_F

ClientSampleId :

OWLS-HEAD-BH-04-ADL

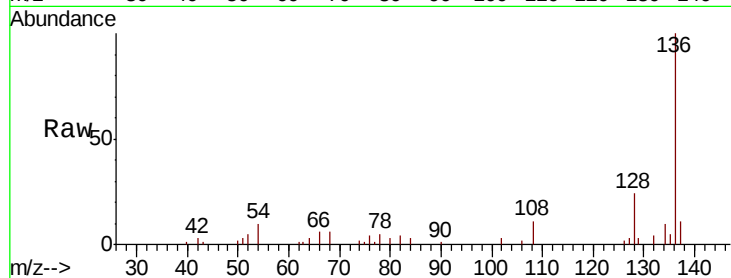
Tot Ion:128 Resp: 6962

Ion Ratio Lower Upper

128 100

129 11.2 8.7 13.1

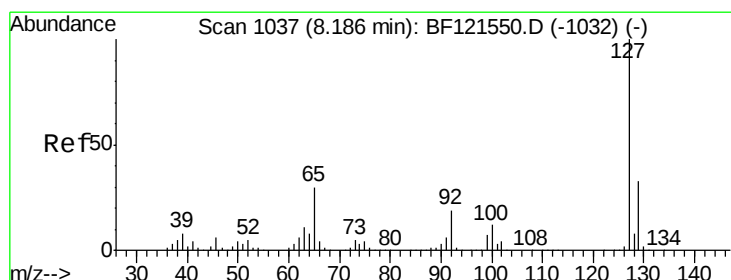
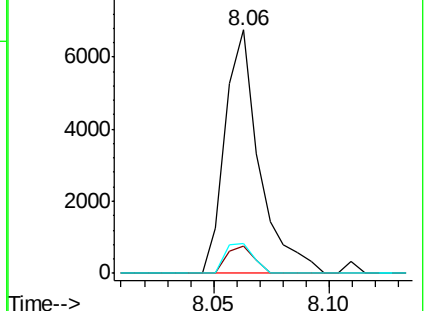
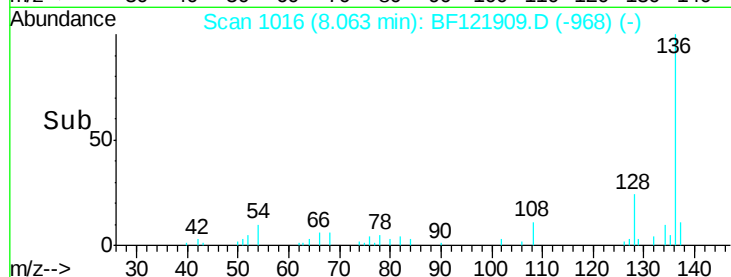
127 12.4 10.8 16.2



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#33

4-Chloroaniline

Concen: 0.065 ng

RT: 8.06 min Scan# 1016

Delta R.T. -0.06 min

Lab File: BF121909.D

Acq: 9 Oct 2020 16:42

Tgt Ion:127 Resp: 708

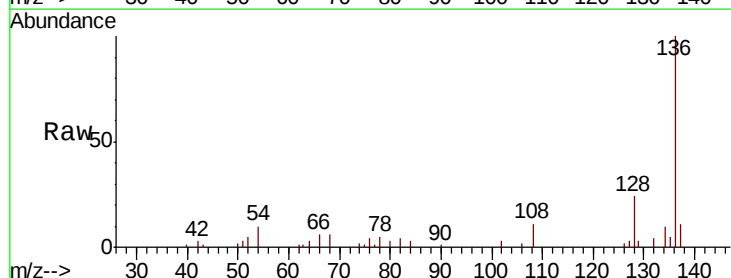
Ion Ratio Lower Upper

127 100

129 90.1 26.3 39.5#

65 0.0 26.2 39.2#

92 0.0 15.9 23.9#

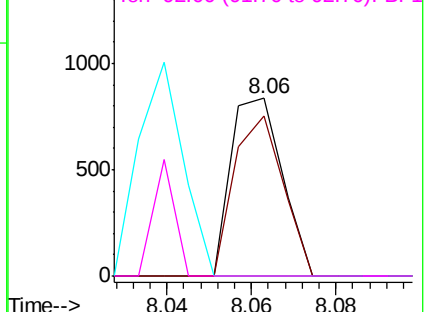
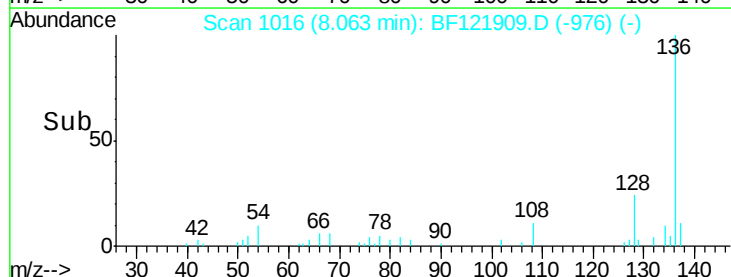


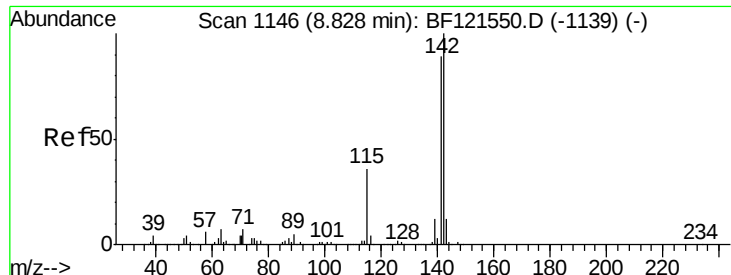
Abundance Ion 127.00 (126.70 to 127.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 65.00 (64.70 to 65.70): BF1

Ion 92.00 (91.70 to 92.70): BF1

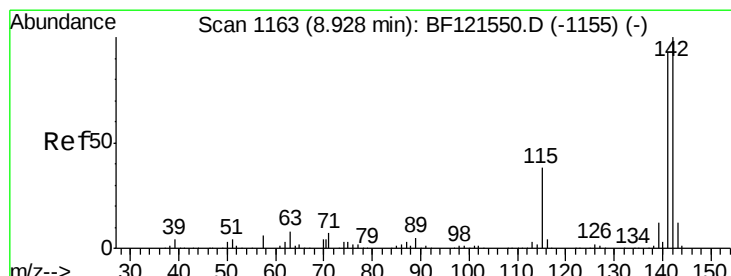
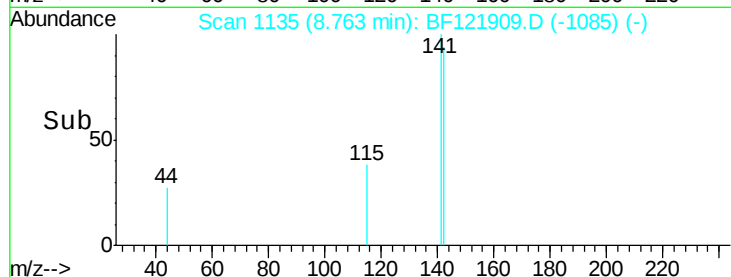
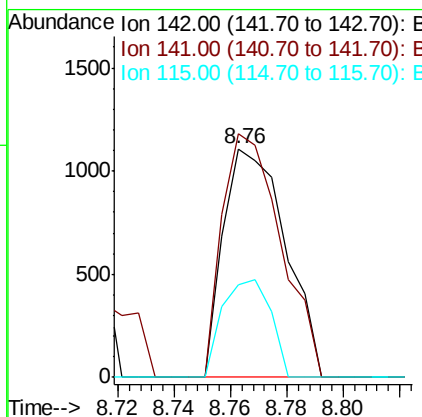
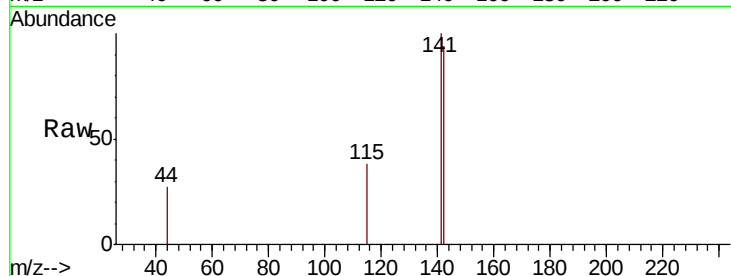




#37
 2-Methylnaphthalene
 Concen: 0.102 ng
 RT: 8.76 min Scan# 1135
 Delta R.T. -0.01 min
 Lab File: BF121909.D
 Acq: 9 Oct 2020 16:42

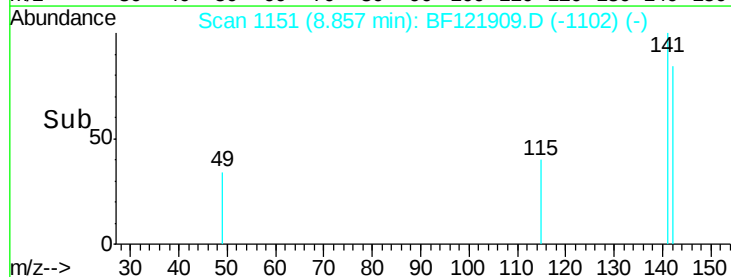
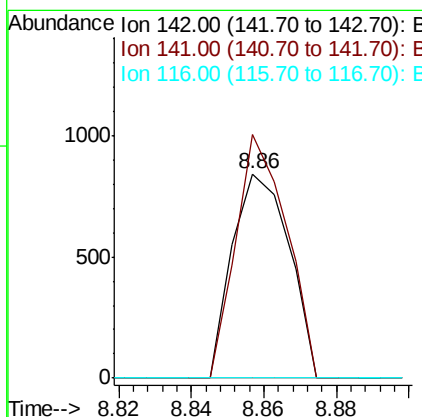
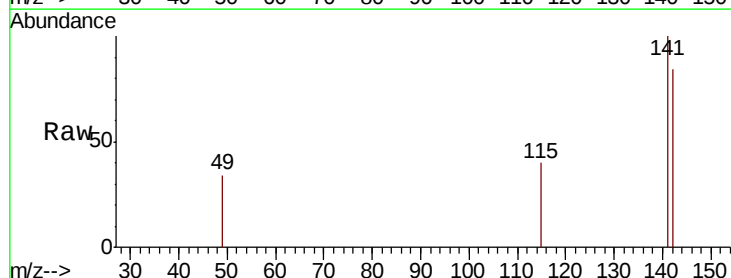
Instrument :
 BNA_F
 ClientSampleId :
 OWLS-HEAD-BH-04-ADL

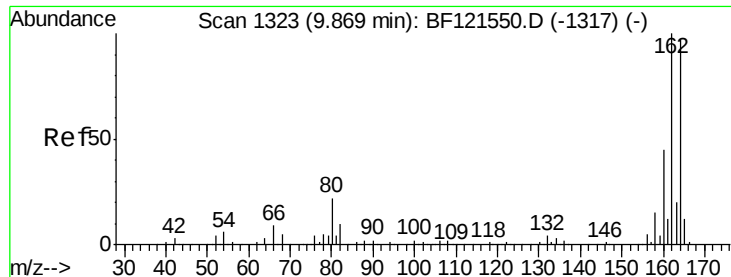
Tot Ion	Ratio	Lower	Upper
142	100		
141	106.6	70.2	105.4#
115	40.3	28.6	43.0



#38
 1-Methylnaphthalene
 Concen: 0.059 ng
 RT: 8.86 min Scan# 1151
 Delta R.T. -0.01 min
 Lab File: BF121909.D
 Acq: 9 Oct 2020 16:42

Tgt Ion	Ratio	Lower	Upper
142	100		
141	119.1	74.5	111.7#
116	0.0	3.2	4.8#





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.79 min Scan# 1310

Delta R.T. -0.02 min

Lab File: BF121909.D

Acq: 9 Oct 2020 16:42

Instrument :

BNA_F

ClientSampleId :

OWLS-HEAD-BH-04-ADL

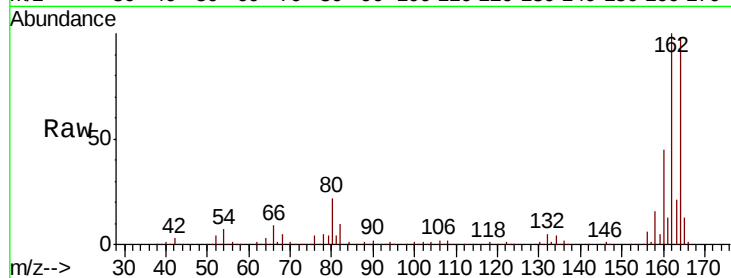
Tot Ion:164 Resp: 234329

Ion Ratio Lower Upper

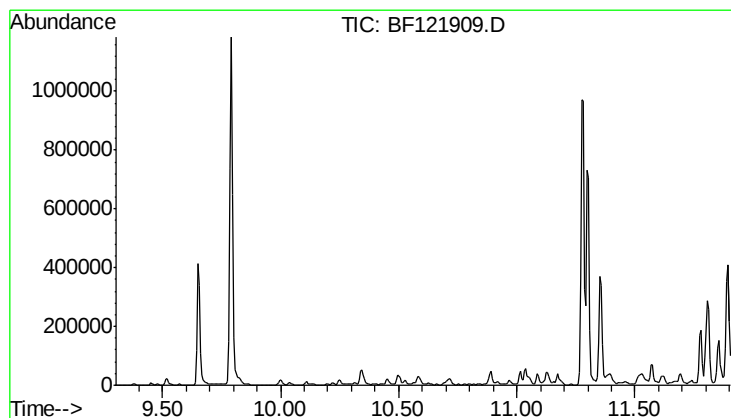
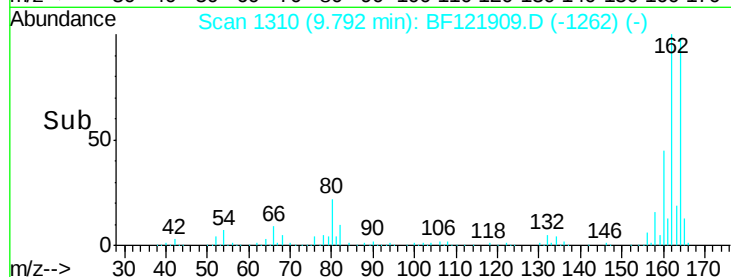
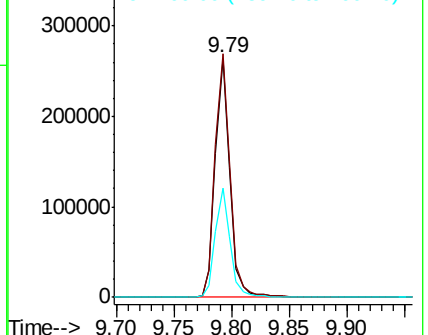
164 100

162 101.9 83.2 124.8

160 45.7 37.5 56.3



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



#42

2,4,6-Tribromophenol

Concen: 0.000 ng

Expected RT: 10.60 min

Lab File: BF121909.D

Acq: 9 Oct 2020 16:42

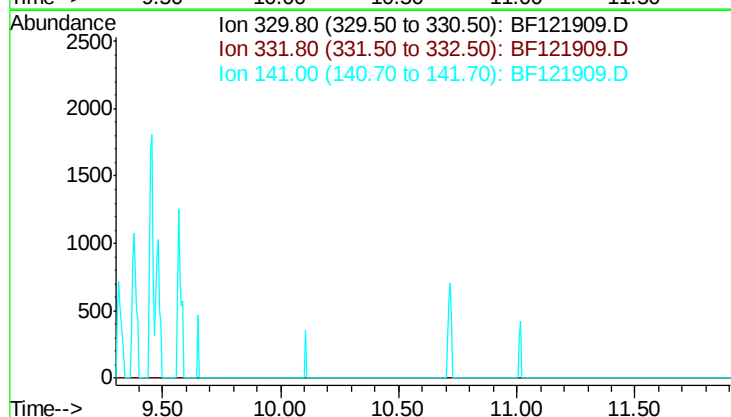
Tgt Ion: 330

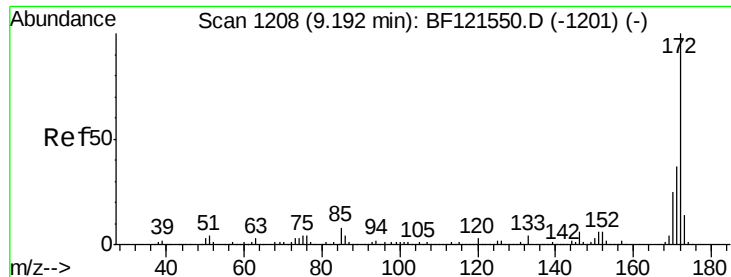
Sig Exp Ratio

330 100

332 96.6

141 27.9

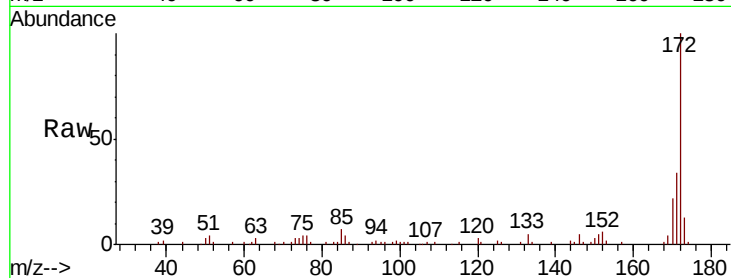




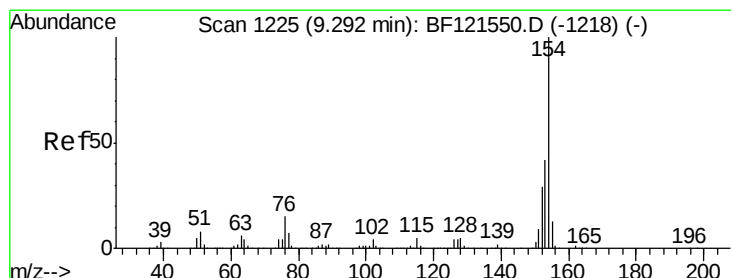
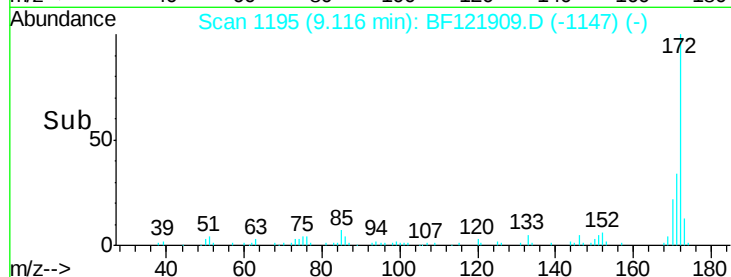
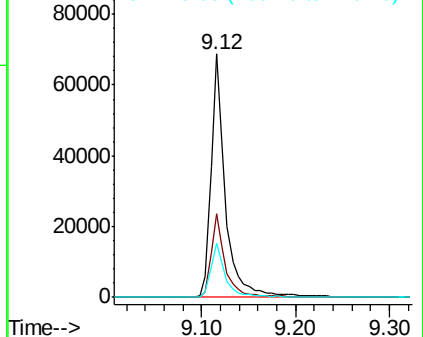
#45
2-Fluorobiphenyl
Concen: 4.808 ng
RT: 9.12 min Scan# 1195
Delta R.T. -0.02 min
Lab File: BF121909.D
Acq: 9 Oct 2020 16:42

Instrument :
BNA_F
ClientSampleId :
OWLS-HEAD-BH-04-ADL

Tot Ion:172 Resp: 74390
Ion Ratio Lower Upper
172 100
171 34.3 29.1 43.7
170 22.0 19.8 29.6

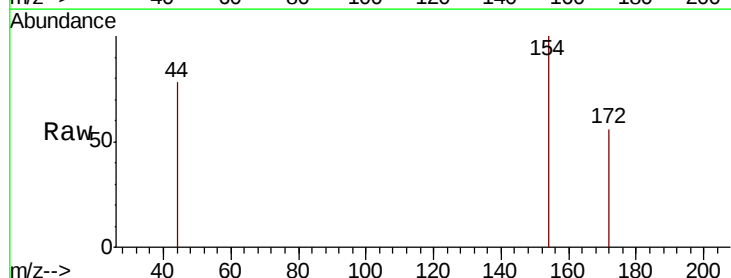


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

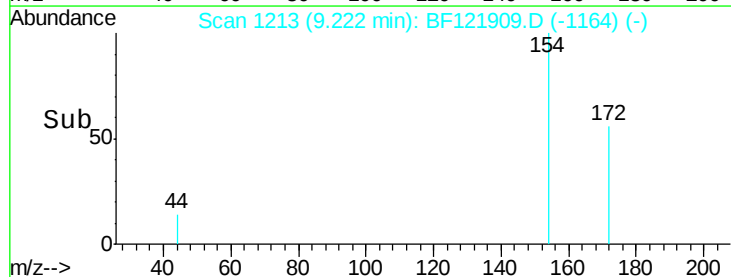
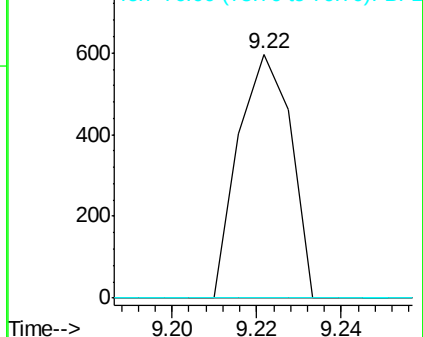


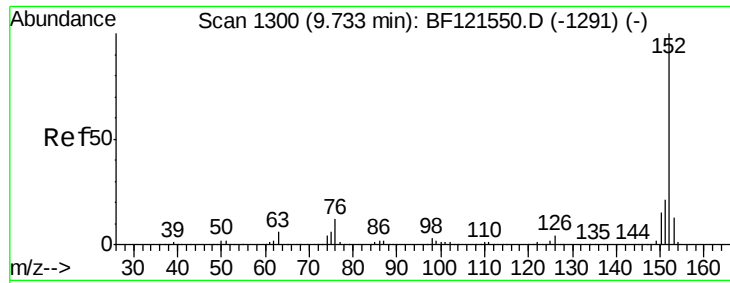
#46
1,1'-Biphenyl
Concen: 0.027 ng
RT: 9.22 min Scan# 1213
Delta R.T. -0.01 min
Lab File: BF121909.D
Acq: 9 Oct 2020 16:42

Tgt Ion:154 Resp: 515
Ion Ratio Lower Upper
154 100
153 0.0 21.3 61.3#
76 0.0 0.0 34.7



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





#49

Acenaphthylene

Concen: 8.000 ng

RT: 9.65 min Scan# 1286

Delta R.T. -0.02 min

Lab File: BF121909.D

Acq: 9 Oct 2020 16:42

Instrument :

BNA_F

ClientSampleId :

OWLS-HEAD-BH-04-ADL

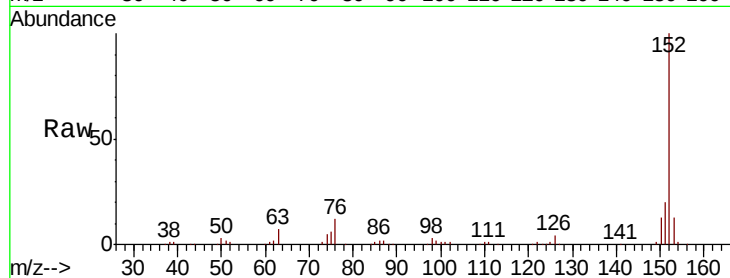
Tot Ion:152 Resp: 181699

Ion Ratio Lower Upper

152 100

151 19.8 16.4 24.6

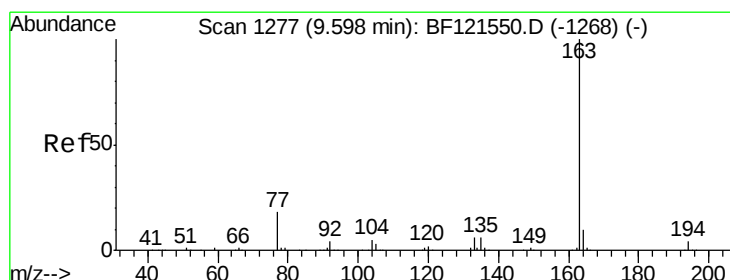
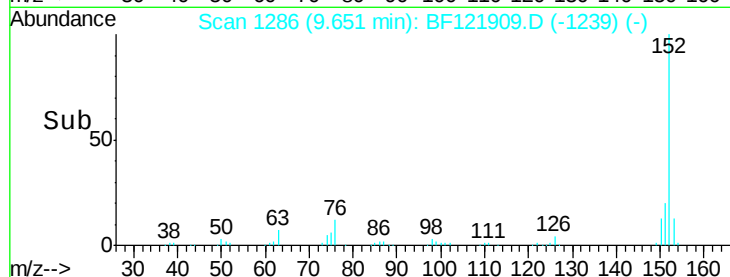
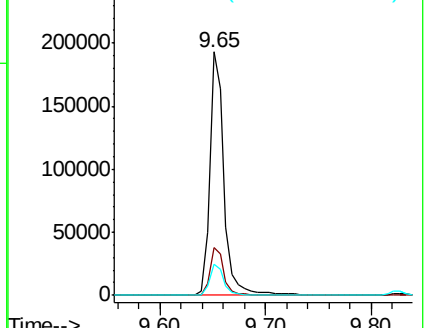
153 13.0 10.6 15.8



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: 0.369 ng

RT: 9.52 min Scan# 1263

Delta R.T. -0.02 min

Lab File: BF121909.D

Acq: 9 Oct 2020 16:42

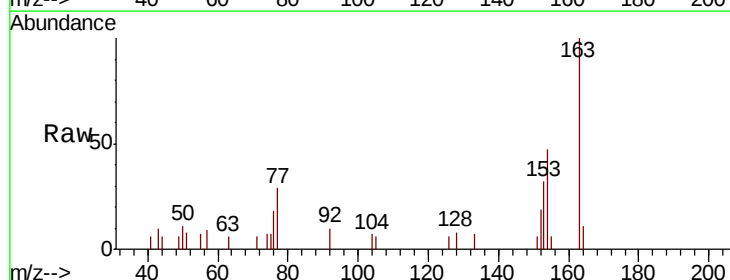
Tgt Ion:163 Resp: 6270

Ion Ratio Lower Upper

163 100

194 0.0 3.3 4.9#

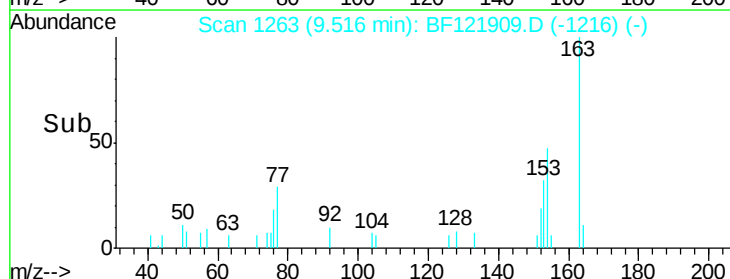
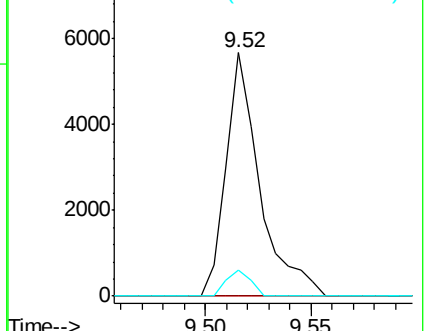
164 10.8 8.2 12.4

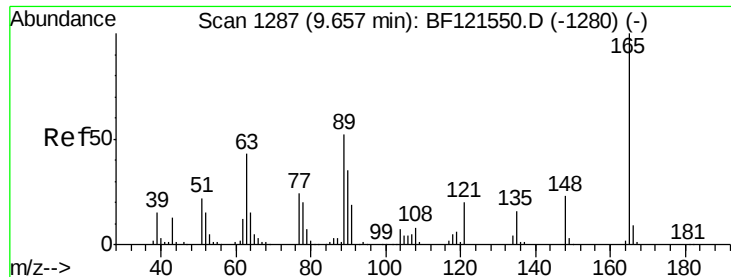


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

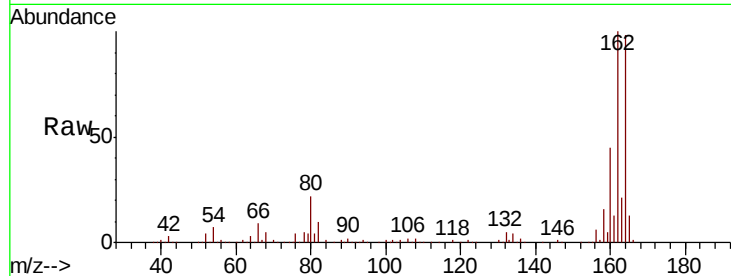




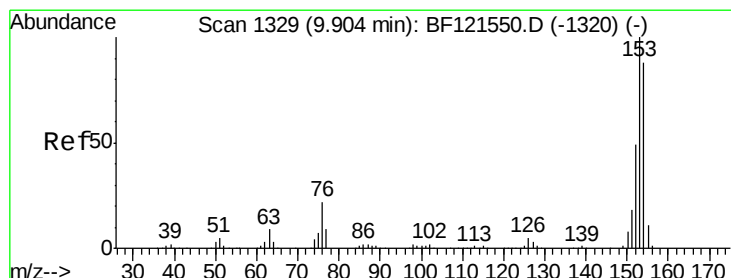
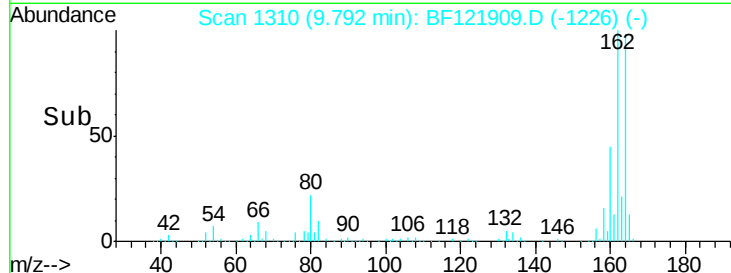
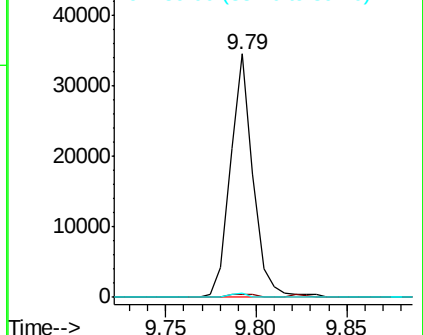
#51
 2,6-Dinitrotoluene
 Concen: 8.318 ng
 RT: 9.79 min Scan# 1310
 Delta R.T. 0.19 min
 Lab File: BF121909.D
 Acq: 9 Oct 2020 16:42

Instrument :
 BNA_F
 ClientSampleId :
 OWLS-HEAD-BH-04-ADL

Tot Ion:165 Resp: 30085
 Ion Ratio Lower Upper
 165 100
 63 1.4 51.8 77.6#
 89 1.5 49.0 73.6#

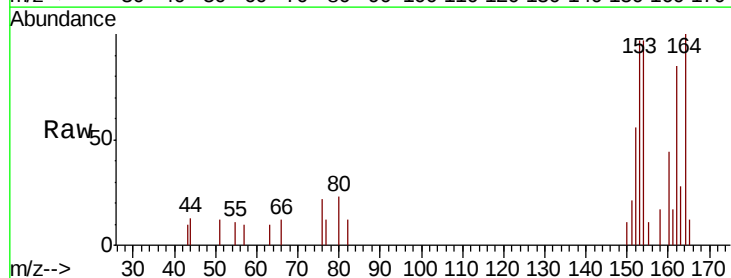


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF1
 Ion 89.00 (88.70 to 89.70): BF1

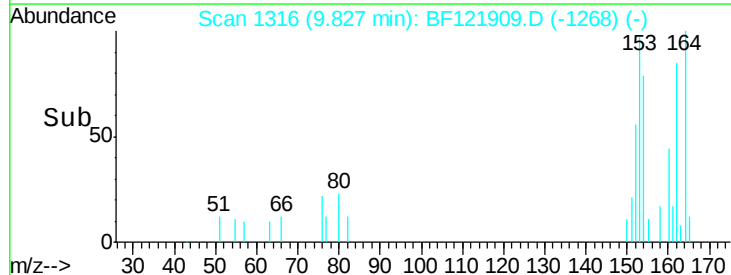
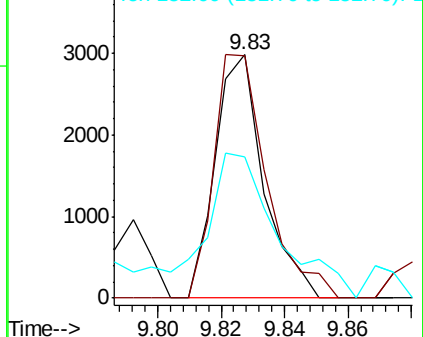


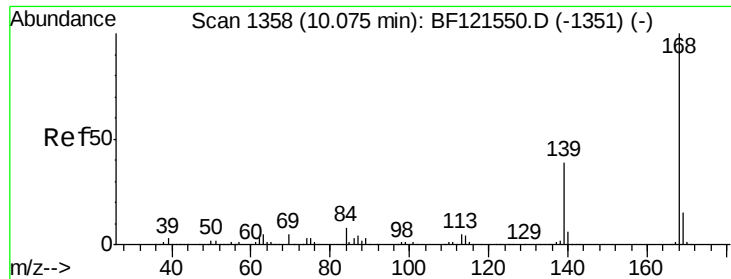
#52
 Acenaphthene
 Concen: 0.220 ng
 RT: 9.83 min Scan# 1316
 Delta R.T. -0.02 min
 Lab File: BF121909.D
 Acq: 9 Oct 2020 16:42

Tgt Ion:154 Resp: 3150
 Ion Ratio Lower Upper
 154 100
 153 99.8 89.8 134.8
 152 57.9 43.2 64.8



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

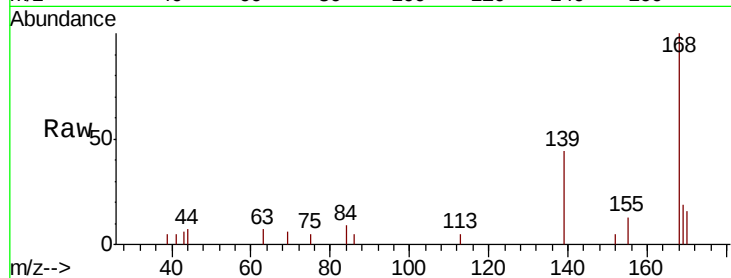




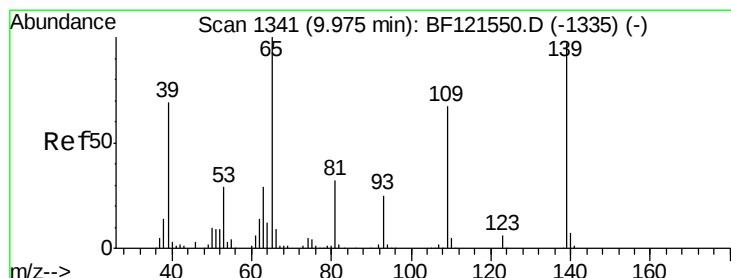
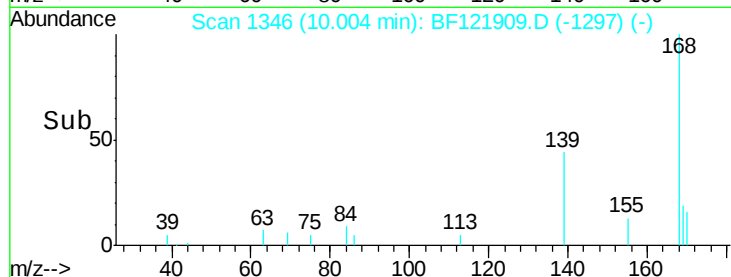
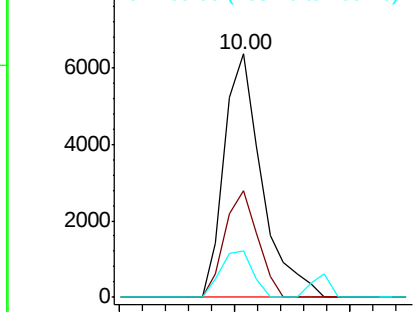
#55
Dibenzofuran
Concen: 0.357 ng
RT: 10.00 min Scan# 1346
Delta R.T. -0.01 min
Lab File: BF121909.D
Acq: 9 Oct 2020 16:42

Instrument :
BNA_F
ClientSampleId :
OWLS-HEAD-BH-04-ADL

Tot Ion:168 Resp: 7209
Ion Ratio Lower Upper
168 100
139 43.6 31.0 46.6
169 19.2 11.3 16.9#

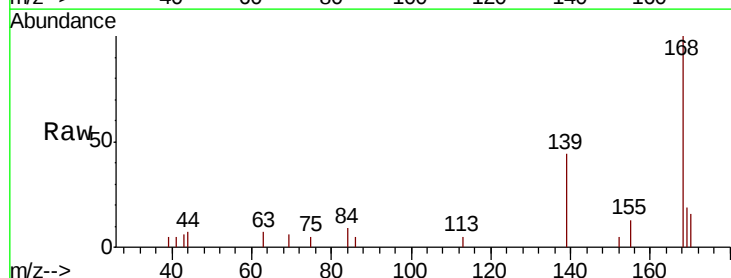


Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

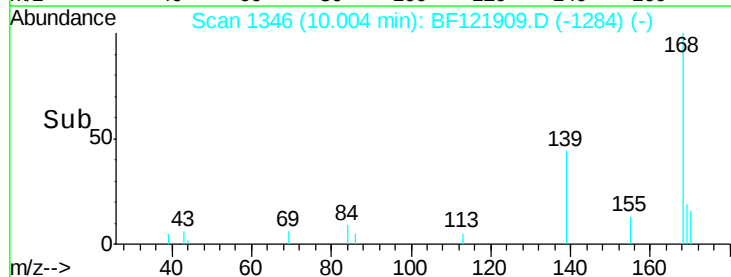
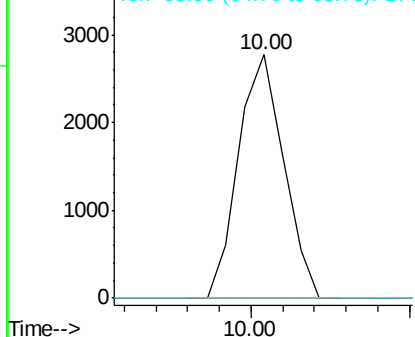


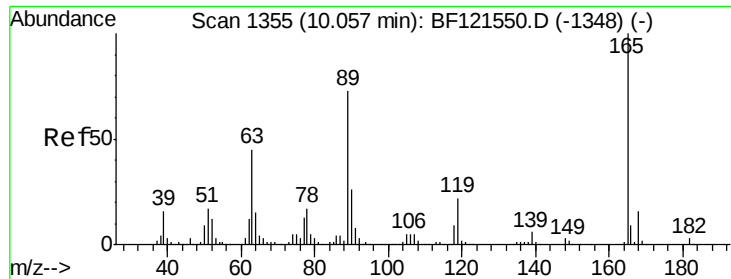
#56
4-Nitrophenol
Concen: 0.821 ng
RT: 10.00 min Scan# 1346
Delta R.T. 0.06 min
Lab File: BF121909.D
Acq: 9 Oct 2020 16:42

Tgt Ion:139 Resp: 2744
Ion Ratio Lower Upper
139 100
109 0.0 45.4 85.4#
65 0.0 68.4 108.4#



Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF1

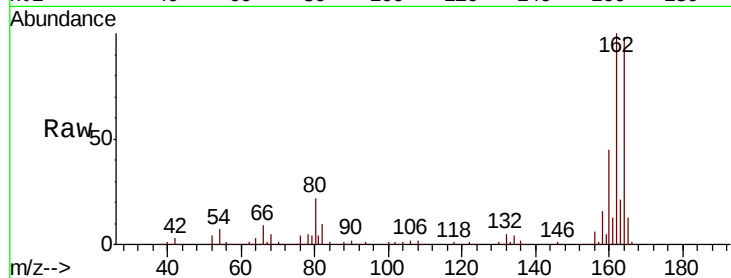




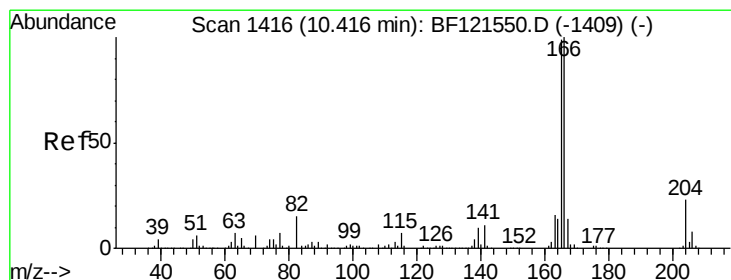
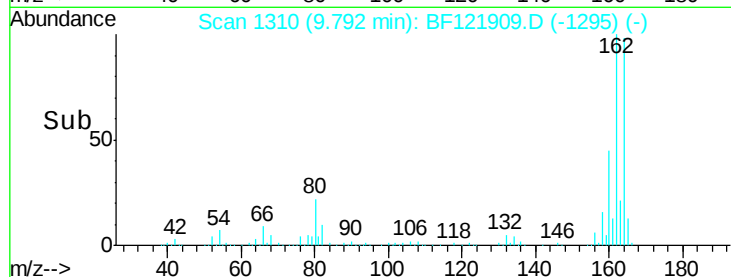
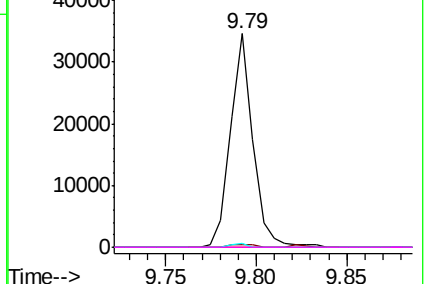
#57
 2,4-Dinitrotoluene
 Concen: 6.612 ng
 RT: 9.79 min Scan# 1310
 Delta R.T. -0.21 min
 Lab File: BF121909.D
 Acq: 9 Oct 2020 16:42

Instrument :
 BNA_F
 ClientSampleId :
 OWLS-HEAD-BH-04-ADL

Tot Ion:165	Resp:	30085
Ion Ratio	Lower	Upper
165	100	
63	1.4	41.3 61.9#
89	1.5	61.8 92.8#
182	0.0	2.1 3.1#

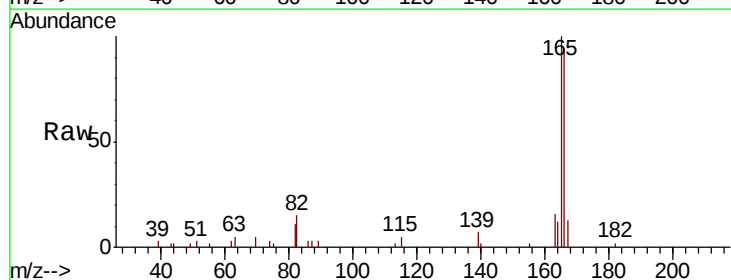


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF1
 Ion 89.00 (88.70 to 89.70): BF1
 Ion 182.00 (181.70 to 182.70): E

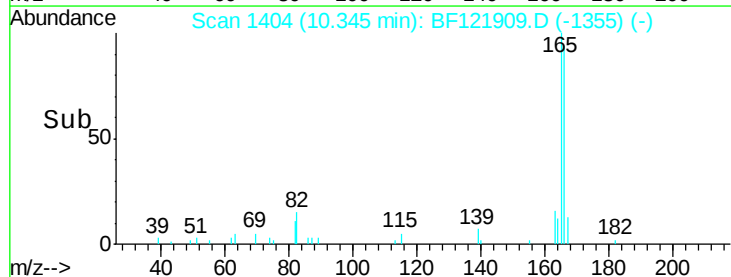
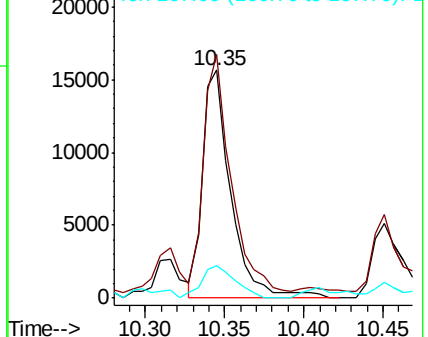


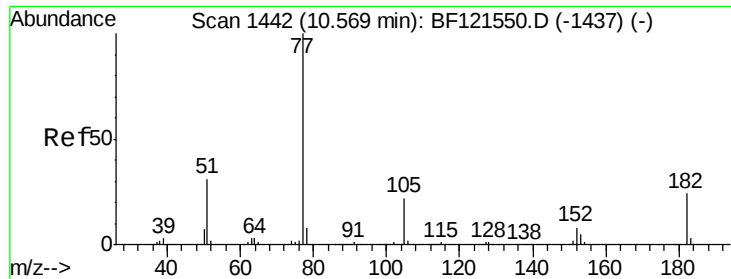
#58
 Fluorene
 Concen: 1.274 ng
 RT: 10.35 min Scan# 1404
 Delta R.T. -0.01 min
 Lab File: BF121909.D
 Acq: 9 Oct 2020 16:42

Tgt Ion:166	Resp:	19676
Ion Ratio	Lower	Upper
166	100	
165	106.9	79.1 118.7
167	14.2	11.0 16.6



Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E





#63

Azobenzene

Concen: 0.028 ng

RT: 10.50 min Scan# 1430

Delta R.T. -0.01 min

Lab File: BF121909.D

Acq: 9 Oct 2020 16:42

Instrument :

BNA_F

ClientSampleId :

OWLS-HEAD-BH-04-ADL

Tot Ion: 77 Resp: 493

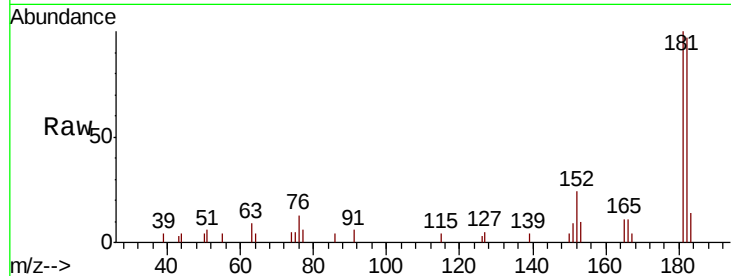
Ion Ratio Lower Upper

77 100

182 1523.6 3.4 43.4#

105 0.0 1.7 41.7#

51 100.2 11.6 51.6#

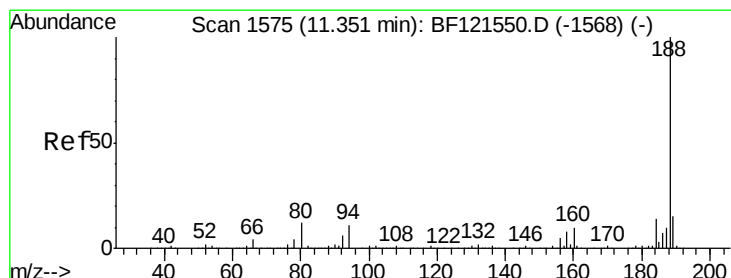
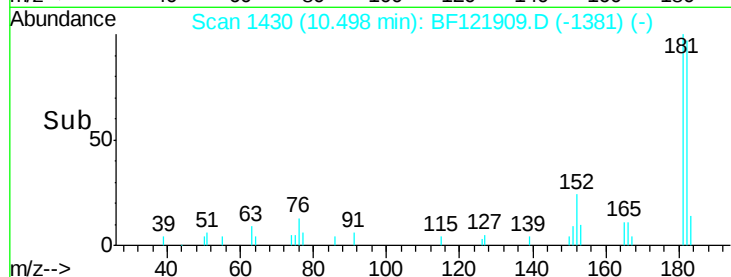
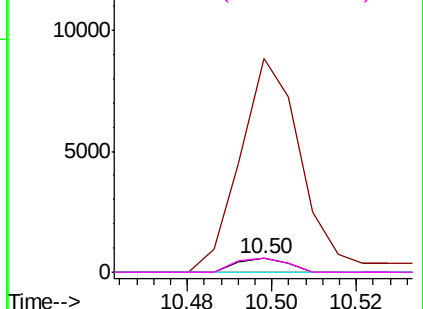


Abundance Ion 77.00 (76.70 to 77.70): BF1

Ion 182.00 (181.70 to 182.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 51.00 (50.70 to 51.70): BF1



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.28 min Scan# 1563

Delta R.T. -0.01 min

Lab File: BF121909.D

Acq: 9 Oct 2020 16:42

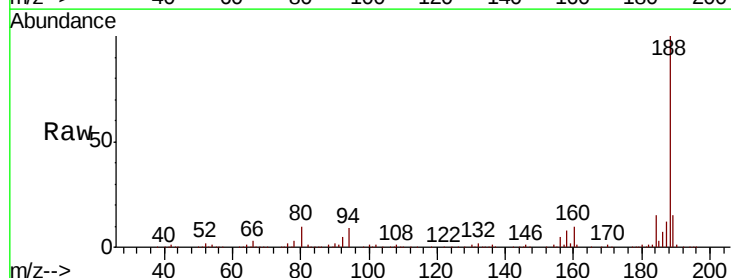
Tgt Ion: 188 Resp: 385508

Ion Ratio Lower Upper

188 100

94 9.4 8.3 12.5

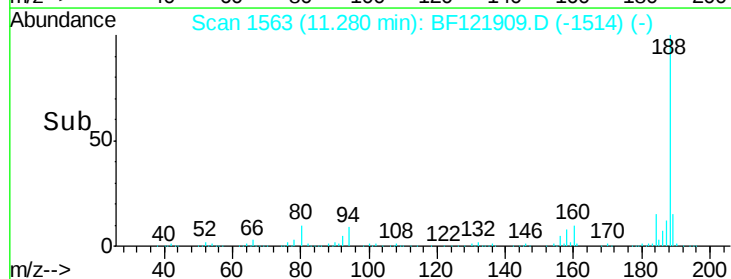
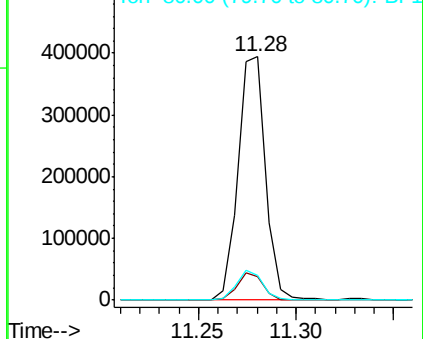
80 10.3 9.1 13.7

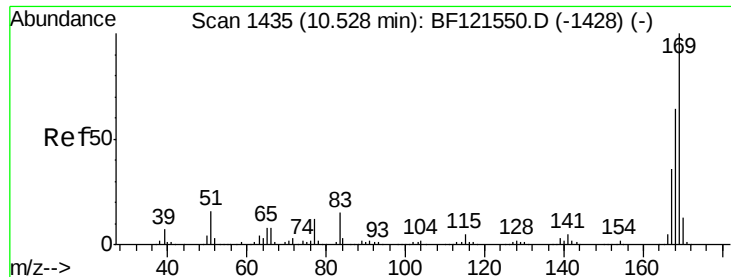


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

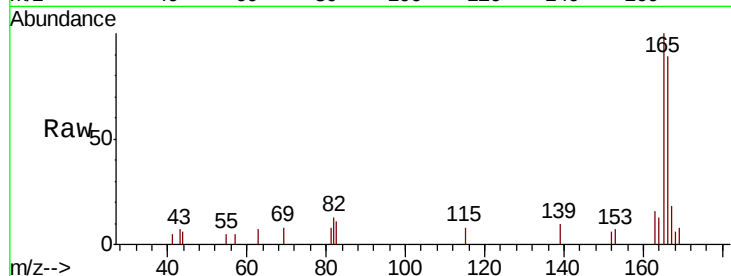




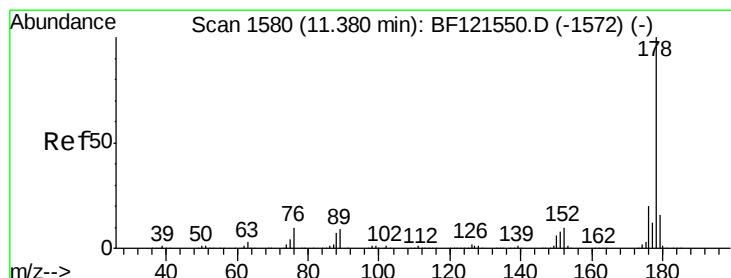
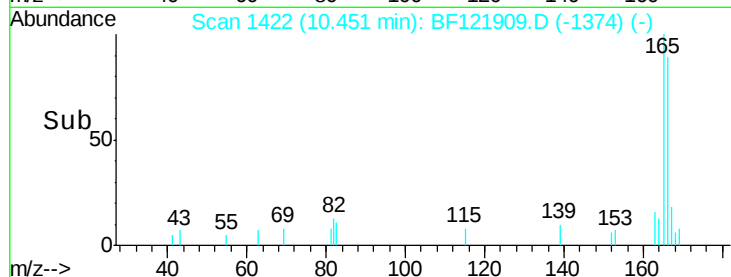
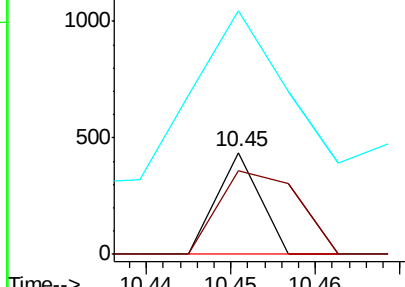
#66
n-Nitrosodiphenylamine
Concen: 0.012 ng
RT: 10.45 min Scan# 1422
Delta R.T. -0.02 min
Lab File: BF121909.D
Acq: 9 Oct 2020 16:42

Instrument :
BNA_F
ClientSampleId :
OWLS-HEAD-BH-04-ADL

Tot Ion:169 Resp: 155
Ion Ratio Lower Upper
169 100
168 81.3 50.0 75.0#
167 238.3 27.8 41.6#

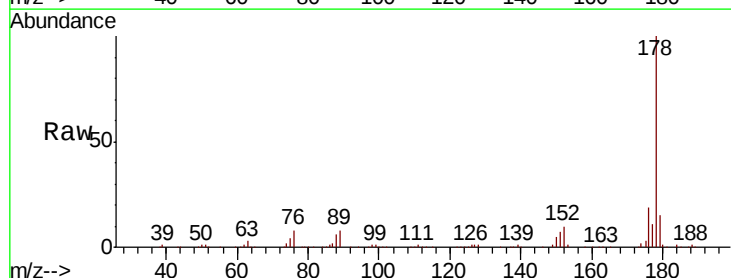


Abundance Ion 169.00 (168.70 to 169.70): E
Ion 168.00 (167.70 to 168.70): E
Ion 167.00 (166.70 to 167.70): E

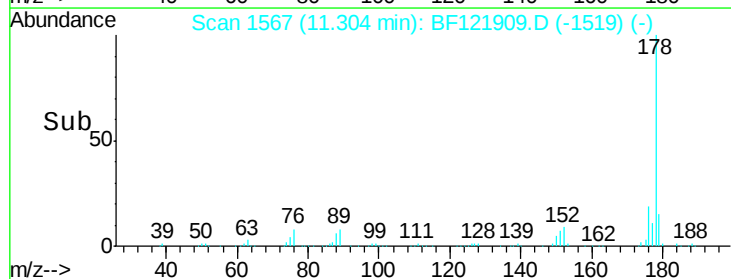
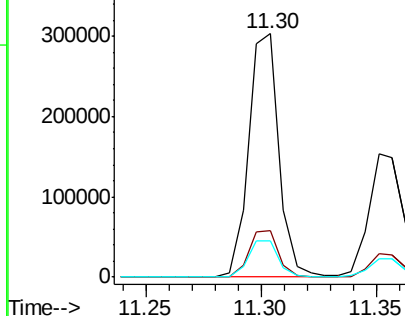


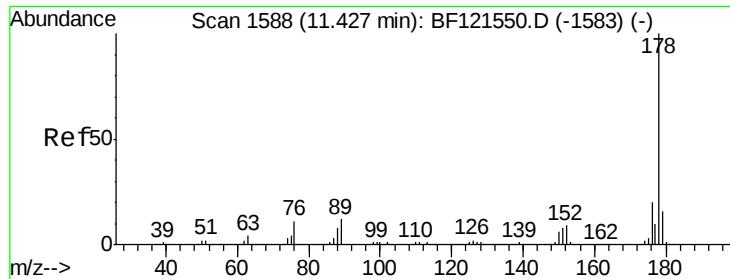
#71
Phenanthrene
Concen: 13.287 ng
RT: 11.30 min Scan# 1567
Delta R.T. -0.02 min
Lab File: BF121909.D
Acq: 9 Oct 2020 16:42

Tgt Ion:178 Resp: 279087
Ion Ratio Lower Upper
178 100
176 18.9 15.9 23.9
179 14.7 12.2 18.4



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





#72

Anthracene

Concen: 7.687 ng

RT: 11.35 min Scan# 1575

Delta R.T. -0.02 min

Lab File: BF121909.D

Acq: 9 Oct 2020 16:42

Instrument :

BNA_F

ClientSampleId :

OWLS-HEAD-BH-04-ADL

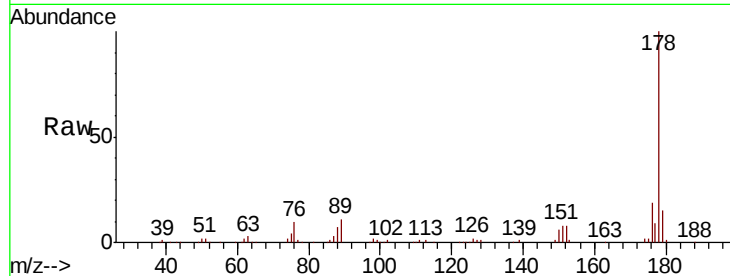
Tot Ion:178 Resp: 166611

Ion Ratio Lower Upper

178 100

176 18.9 15.7 23.5

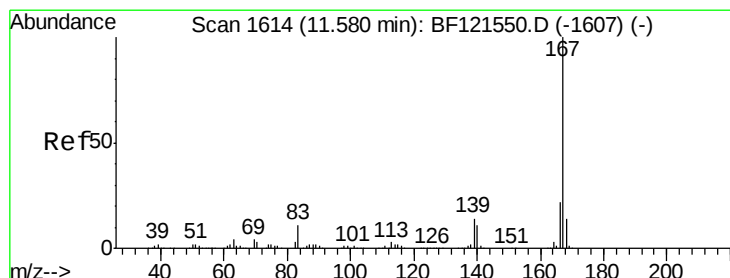
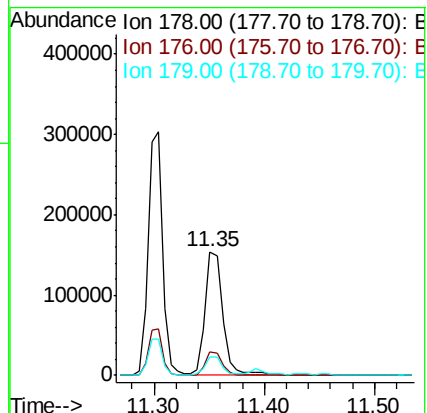
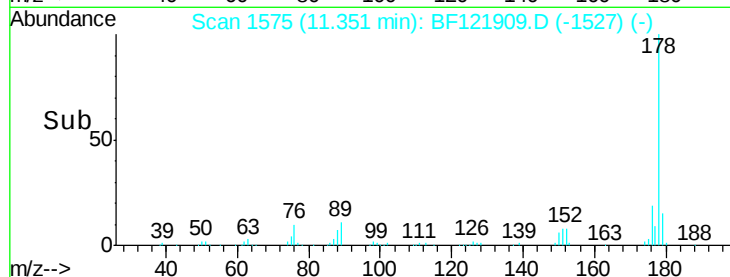
179 15.4 12.7 19.1



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#73

Carbazole

Concen: 0.507 ng

RT: 11.52 min Scan# 1603

Delta R.T. -0.01 min

Lab File: BF121909.D

Acq: 9 Oct 2020 16:42

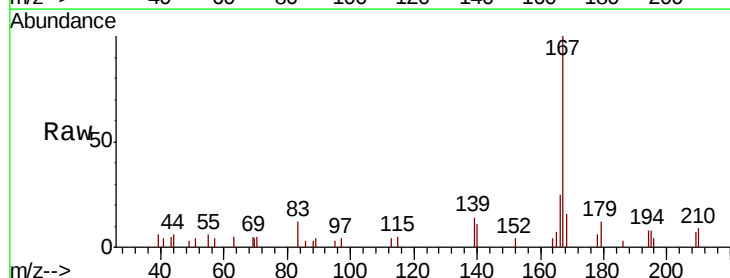
Tgt Ion:167 Resp: 9918

Ion Ratio Lower Upper

167 100

166 24.6 17.8 26.6

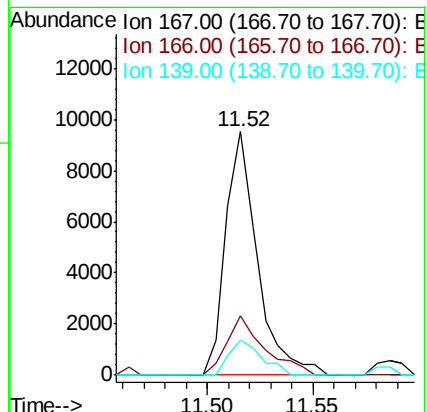
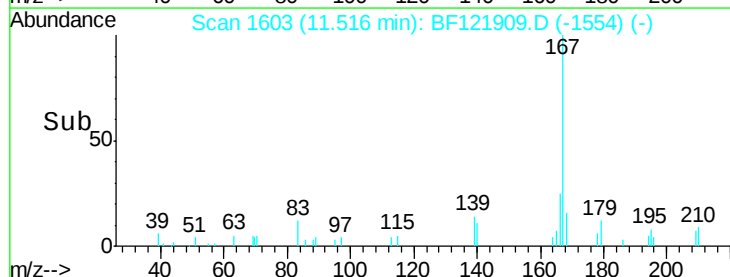
139 14.2 10.8 16.2

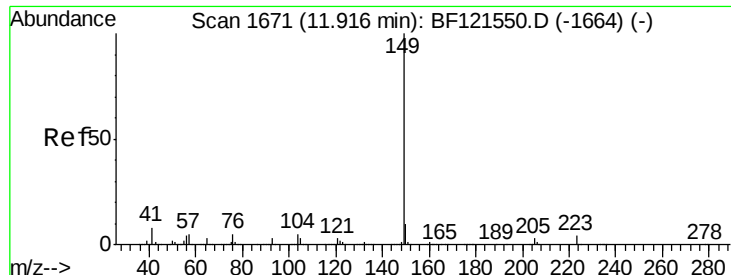


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Di-n-butylphthalate

Concen: 0.005 ng

RT: 11.83 min Scan# 1657

Delta R.T. -0.02 min

Lab File: BF121909.D

Acq: 9 Oct 2020 16:42

Instrument :

BNA_F

ClientSampleId :

OWLS-HEAD-BH-04-ADL

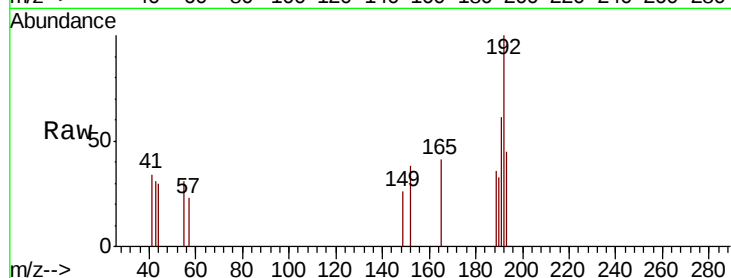
Tot Ion:149 Resp: 119

Ion Ratio Lower Upper

149 100

150 0.0 7.7 11.5#

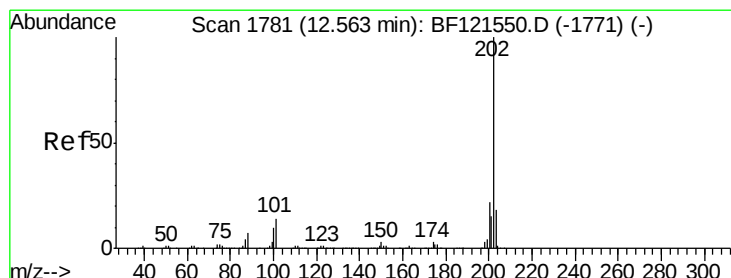
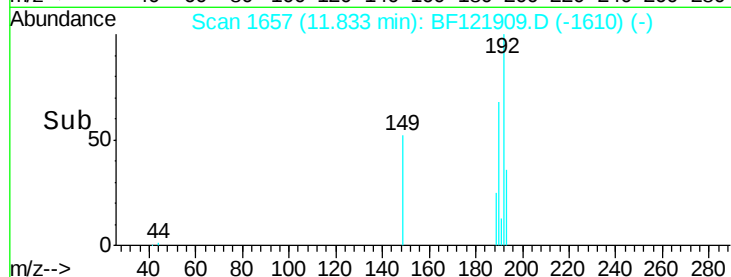
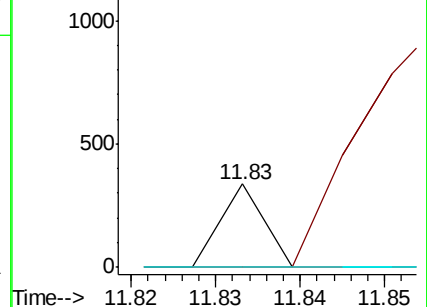
104 0.0 4.2 6.2#



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: 50.392 ng

RT: 12.50 min Scan# 1770

Delta R.T. -0.01 min

Lab File: BF121909.D

Acq: 9 Oct 2020 16:42

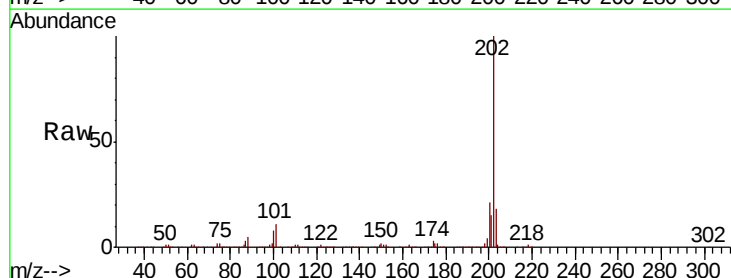
Tgt Ion:202 Resp: 1129871

Ion Ratio Lower Upper

202 100

101 11.4 0.0 33.4

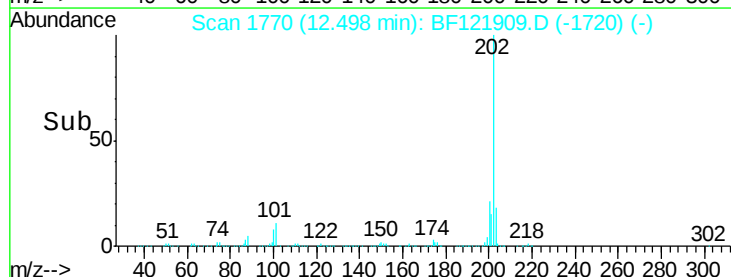
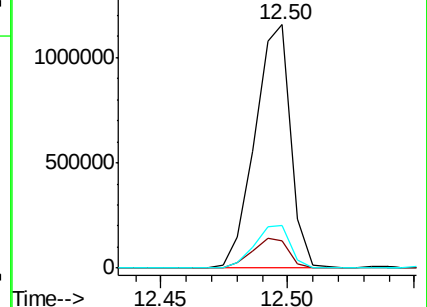
203 17.6 0.0 37.9

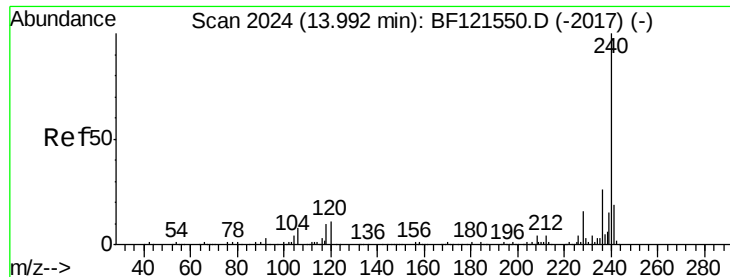


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.92 min Scan# 2012

Delta R.T. -0.01 min

Lab File: BF121909.D

Acq: 9 Oct 2020 16:42

Instrument :

BNA_F

ClientSampleId :

OWLS-HEAD-BH-04-ADL

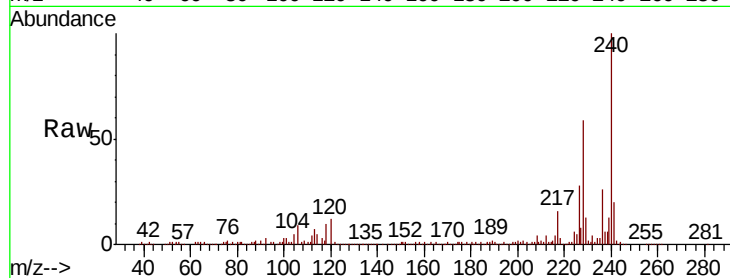
Tot Ion:240 Resp: 270810

Ion Ratio Lower Upper

240 100

120 11.9 9.2 13.8

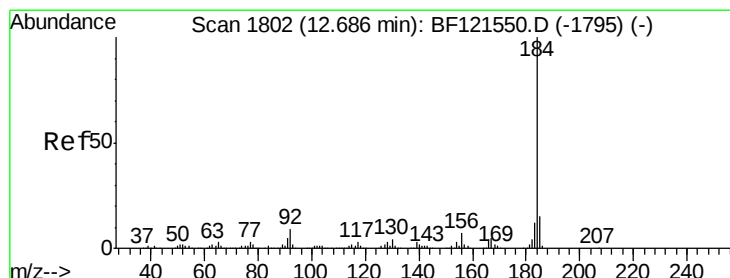
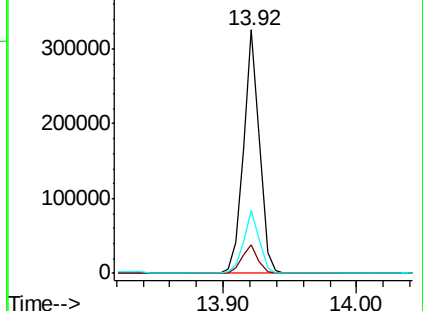
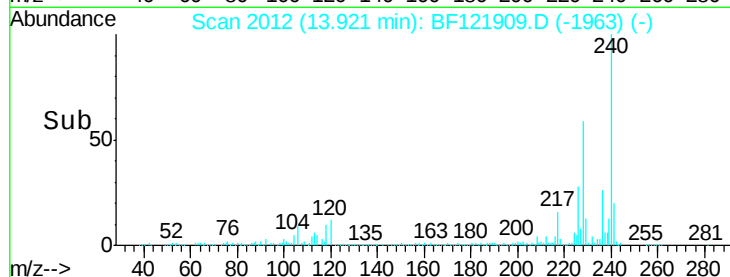
236 25.8 20.9 31.3



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: 0.080 ng

RT: 12.86 min Scan# 1831

Delta R.T. 0.23 min

Lab File: BF121909.D

Acq: 9 Oct 2020 16:42

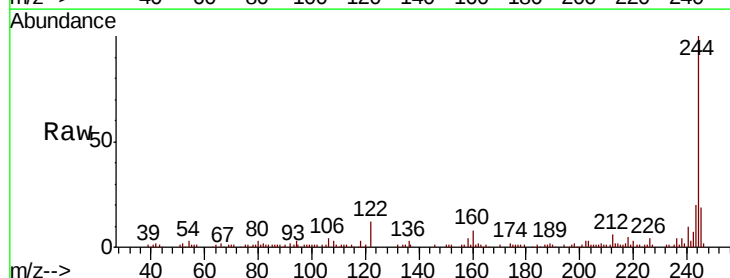
Tgt Ion:184 Resp: 715

Ion Ratio Lower Upper

184 100

185 33.7 11.6 17.4#

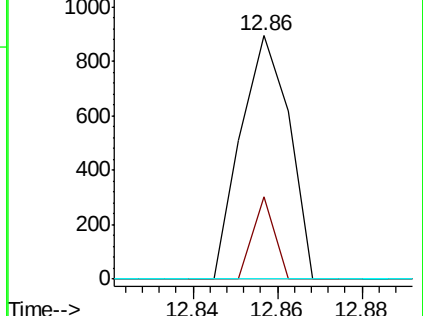
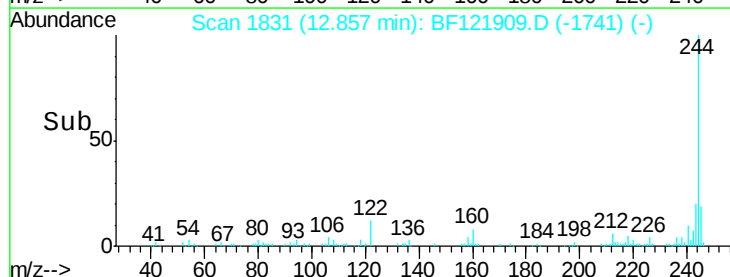
183 0.0 9.4 14.0#

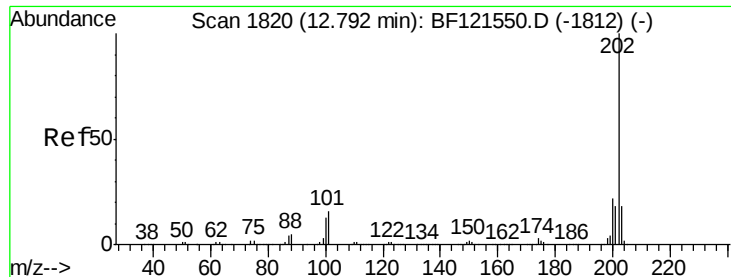


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#78

Pvrene

Concen: 51.721 ng

RT: 12.72 min Scan# 1808

Delta R.T. -0.01 min

Lab File: BF121909.D

Acq: 9 Oct 2020 16:42

Instrument :

BNA_F

ClientSampleId :

OWLS-HEAD-BH-04-ADL

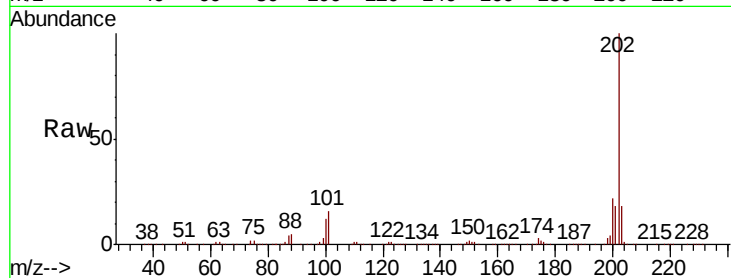
Tot Ion:202 Resp: 1023361

Ion Ratio Lower Upper

202 100

200 21.7 17.4 26.2

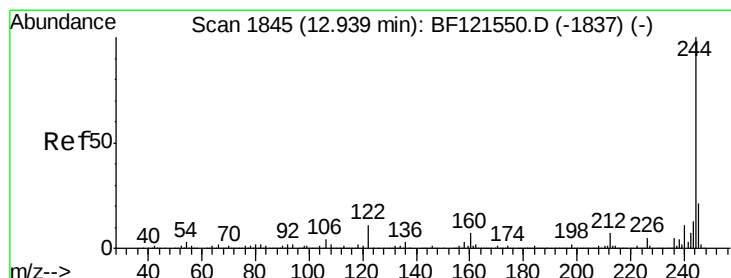
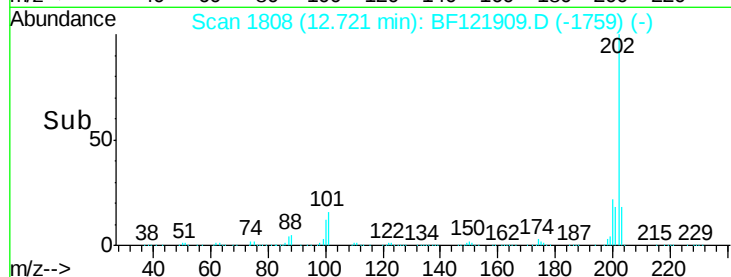
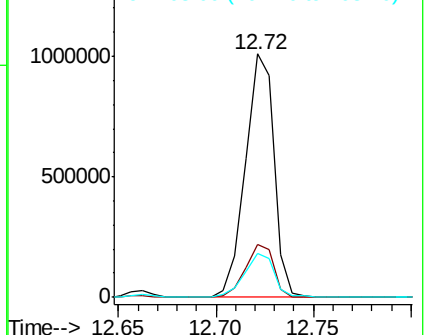
203 17.9 14.6 21.8



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 4.361 ng

RT: 12.86 min Scan# 1831

Delta R.T. -0.02 min

Lab File: BF121909.D

Acq: 9 Oct 2020 16:42

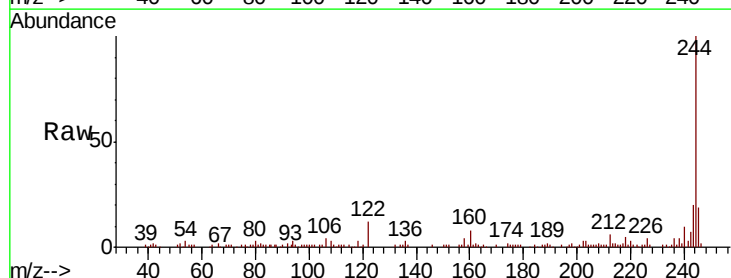
Tgt Ion:244 Resp: 58289

Ion Ratio Lower Upper

244 100

212 6.5 5.4 8.2

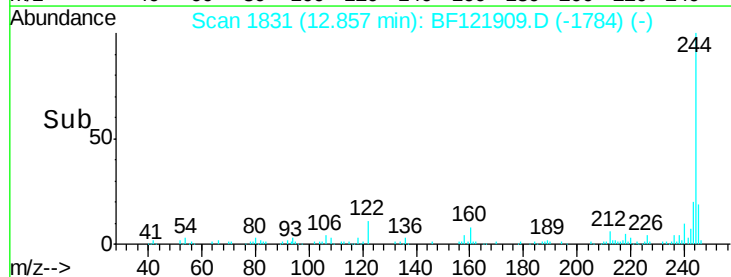
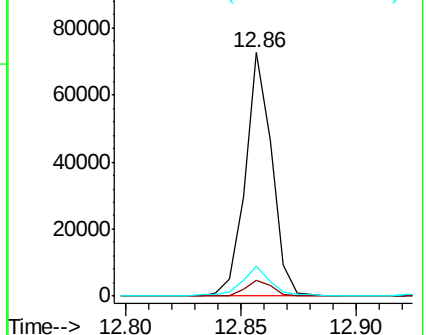
122 12.2 8.1 12.1#

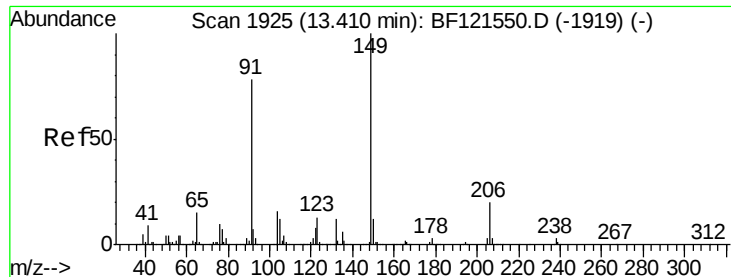


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

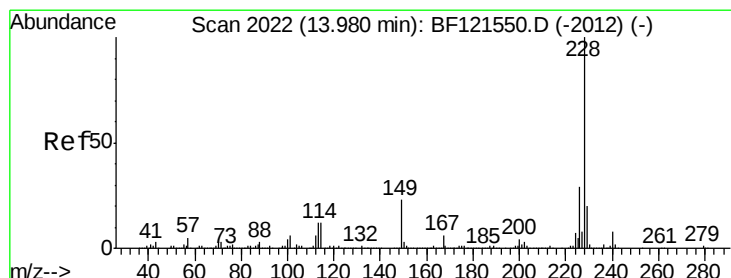
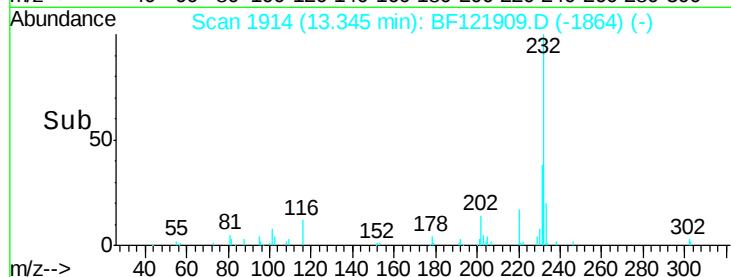
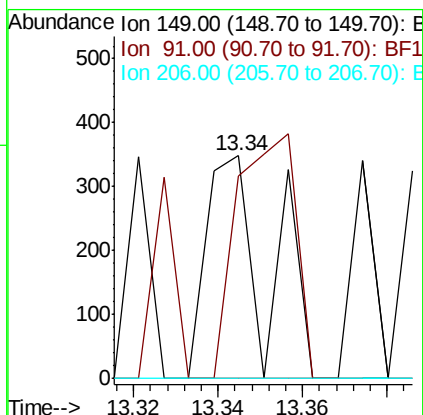
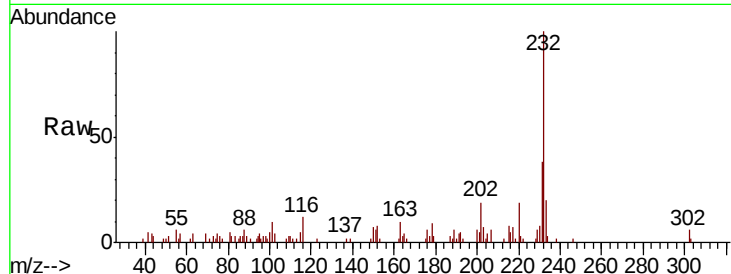




#80
Butylbenzylphthalate
Concen: 0.044 ng
RT: 13.34 min Scan# 1914
Delta R.T. -0.01 min
Lab File: BF121909.D
Acq: 9 Oct 2020 16:42

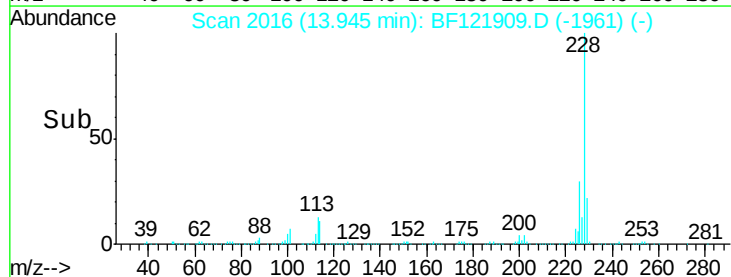
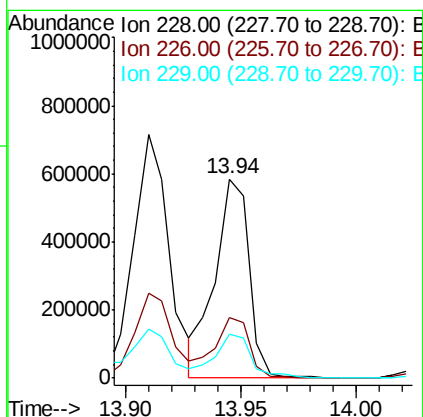
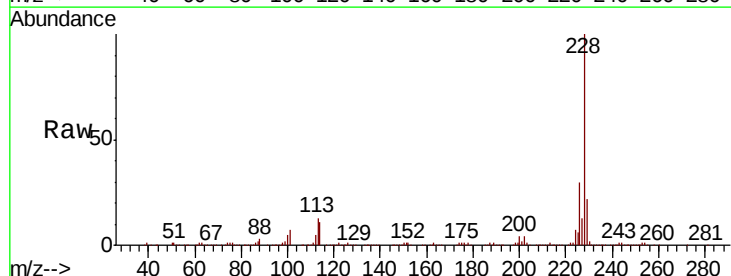
Instrument :
BNA_F
ClientSampleId :
OWLS-HEAD-BH-04-ADL

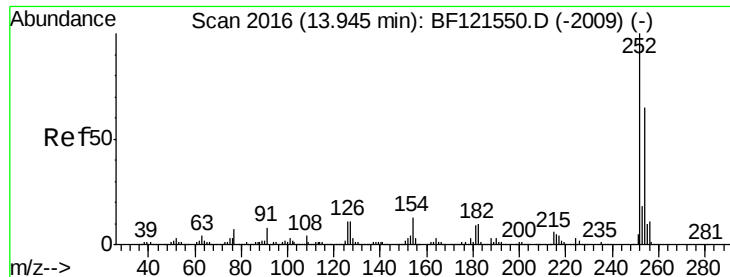
Tot Ion:149 Resp: 352
Ion Ratio Lower Upper
149 100
91 90.8 61.0 91.4
206 0.0 16.7 25.1#



#81
Benzo(a)anthracene
Concen: 34.793 ng
RT: 13.94 min Scan# 2016
Delta R.T. 0.02 min
Lab File: BF121909.D
Acq: 9 Oct 2020 16:42

Tgt Ion:228 Resp: 596104
Ion Ratio Lower Upper
228 100
226 30.4 22.3 33.5
229 22.1 16.2 24.4

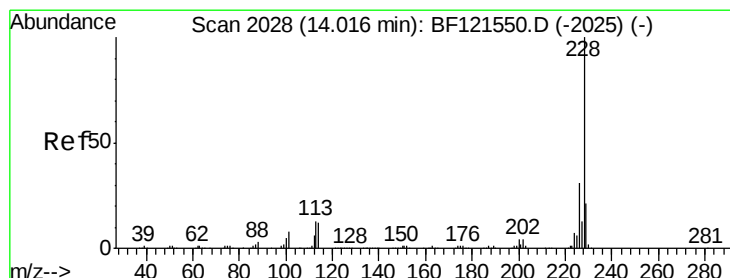
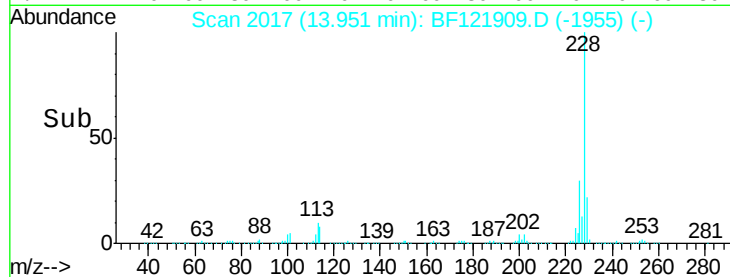
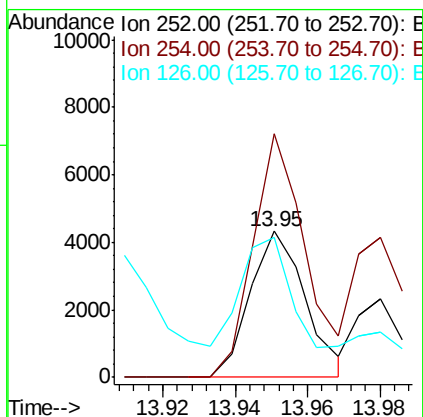
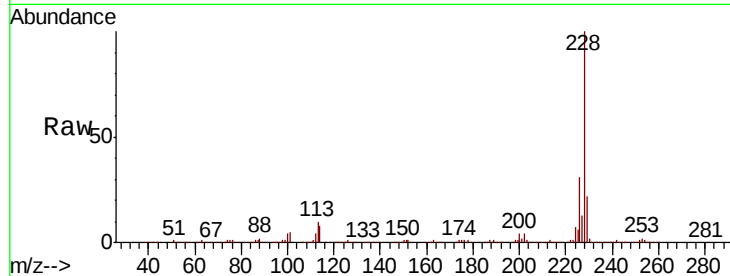




#82
 3,3'-Dichlorobenzidine
 Concen: 0.682 ng
 RT: 13.95 min Scan# 2017
 Delta R.T. 0.06 min
 Lab File: BF121909.D
 Acq: 9 Oct 2020 16:42

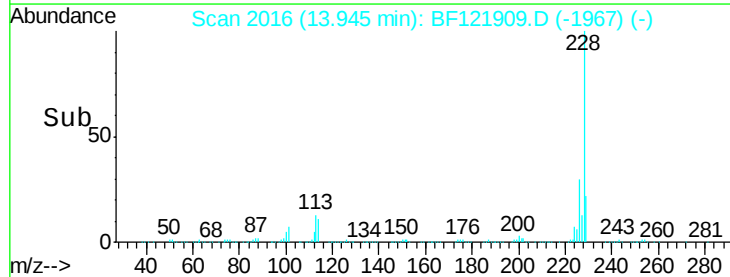
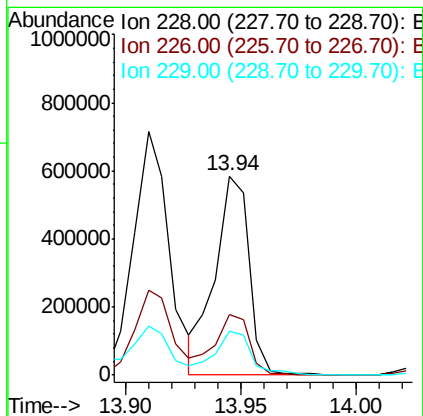
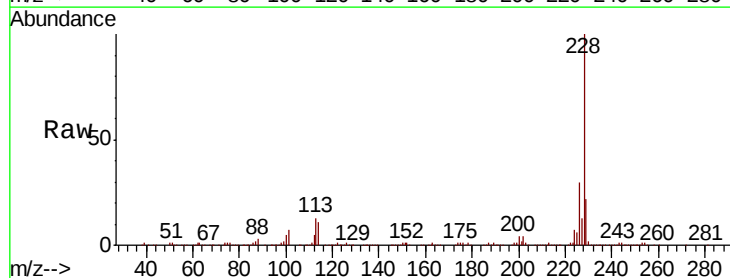
Instrument :
 BNA_F
 ClientSampleId :
 OWLS-HEAD-BH-04-ADL

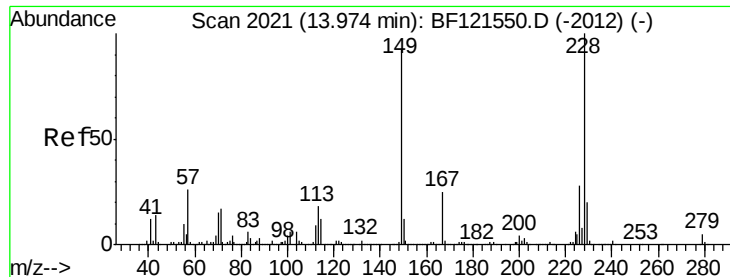
Tot Ion:252 Resp: 4565
 Ion Ratio Lower Upper
 252 100
 254 166.5 51.8 77.6#
 126 96.1 8.8 13.2#



#83
 Chrysene
 Concen: 34.359 ng
 RT: 13.94 min Scan# 2016
 Delta R.T. -0.01 min
 Lab File: BF121909.D
 Acq: 9 Oct 2020 16:42

Tgt Ion:228 Resp: 596104
 Ion Ratio Lower Upper
 228 100
 226 30.4 24.6 37.0
 229 22.1 15.9 23.9





#84

Bis(2-ethylhexyl)phthalate

Concen: 0.371 ng

RT: 13.92 min Scan# 2011

Delta R.T. 0.01 min

Lab File: BF121909.D

Acq: 9 Oct 2020 16:42

Instrument :

BNA_F

ClientSampleId :

OWLS-HEAD-BH-04-ADL

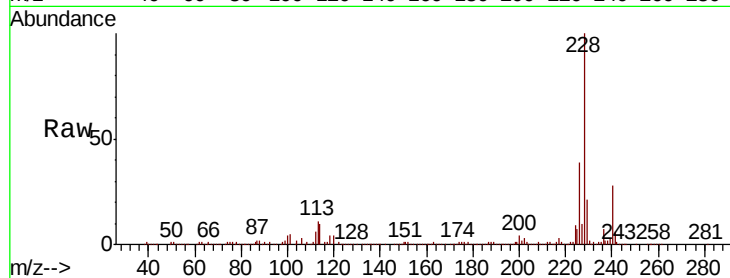
Tot Ion:149 Resp: 3961

Ion Ratio Lower Upper

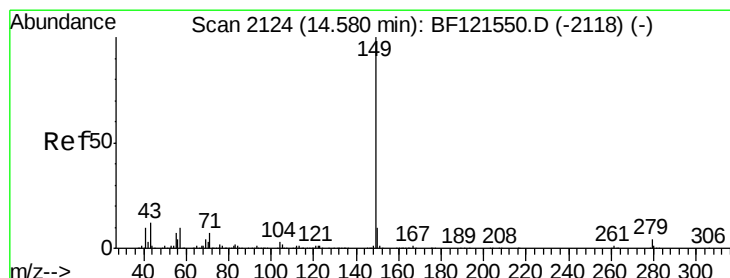
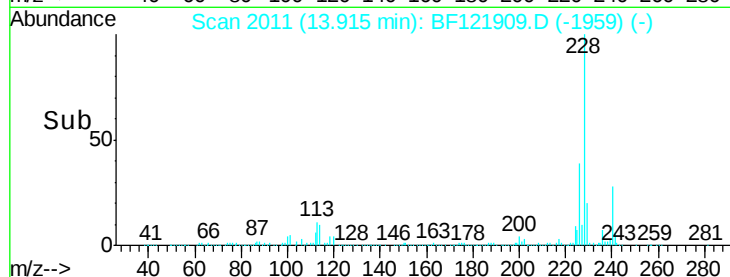
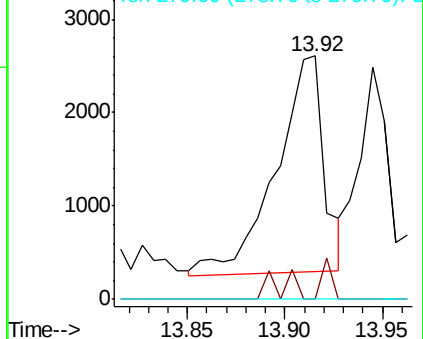
149 100

167 0.0 20.9 31.3#

279 0.0 3.2 4.8#



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: 0.018 ng

RT: 14.51 min Scan# 2112

Delta R.T. -0.01 min

Lab File: BF121909.D

Acq: 9 Oct 2020 16:42

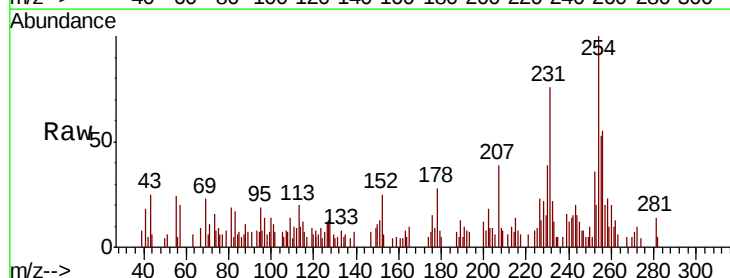
Tgt Ion:149 Resp: 336

Ion Ratio Lower Upper

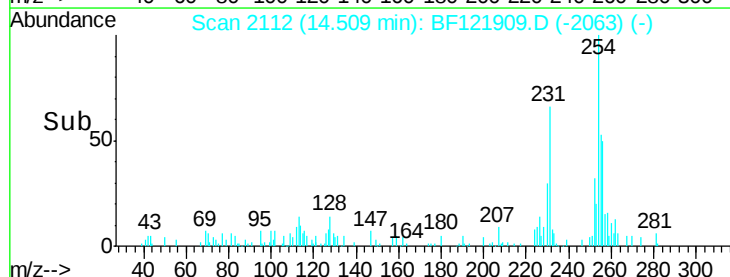
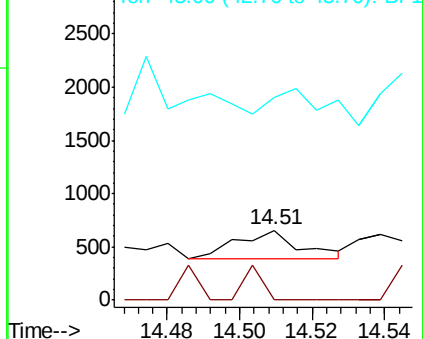
149 100

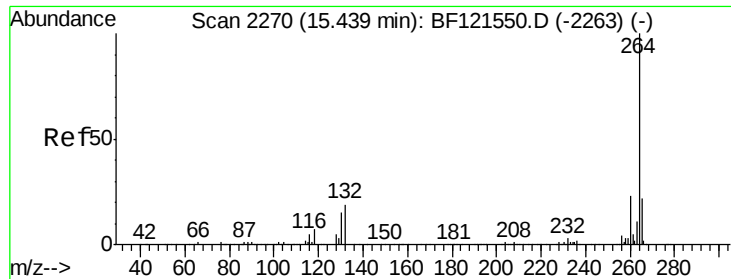
167 34.5 1.2 1.8#

43 102.7 9.0 13.6#



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

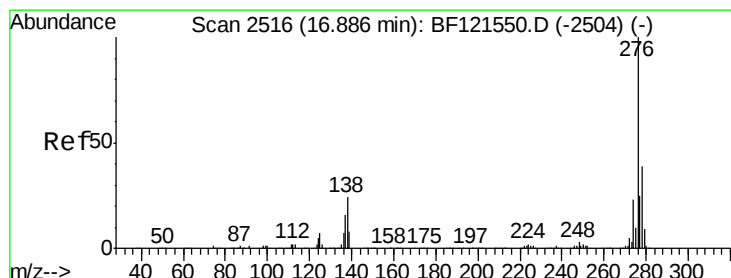
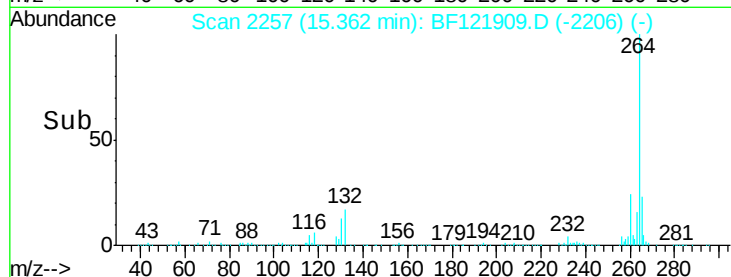
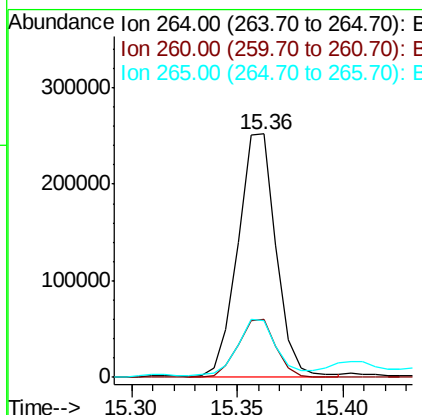
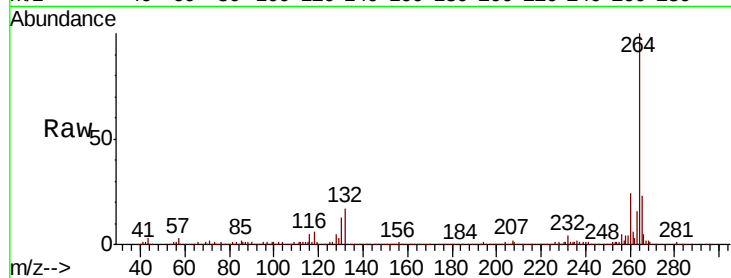




#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.36 min Scan# 2257
Delta R.T. 0.00 min
Lab File: BF121909.D
Acq: 9 Oct 2020 16:42

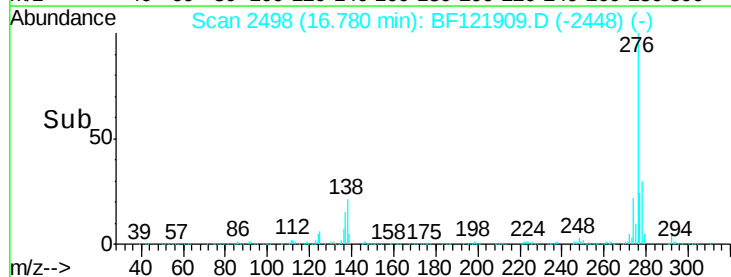
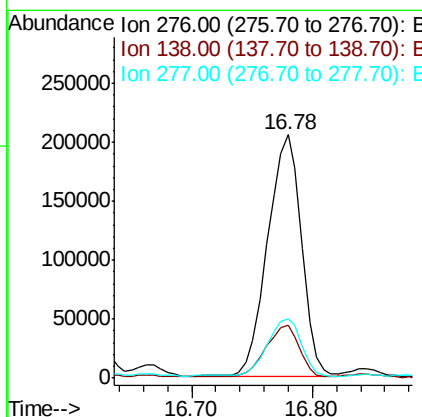
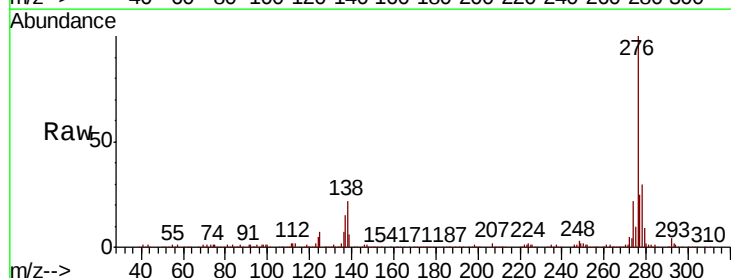
Instrument :
BNA_F
ClientSampleId :
OWLS-HEAD-BH-04-ADL

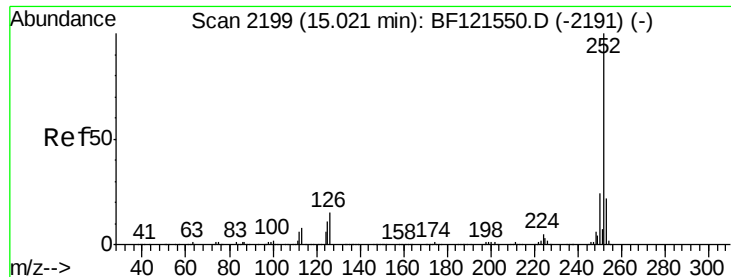
Tot Ion:264 Resp: 313791
Ion Ratio Lower Upper
264 100
260 24.1 18.7 28.1
265 23.1 17.3 25.9



#87
Indeno(1,2,3-cd)pyrene
Concen: 19.539 ng
RT: 16.78 min Scan# 2498
Delta R.T. -0.01 min
Lab File: BF121909.D
Acq: 9 Oct 2020 16:42

Tgt Ion:276 Resp: 399273
Ion Ratio Lower Upper
276 100
138 20.8 19.9 29.9
277 23.9 20.4 30.6





#88

Benzo(b)fluoranthene

Concen: 56.325 ng

RT: 14.95 min Scan# 2187

Delta R.T. -0.01 min

Lab File: BF121909.D

Acq: 9 Oct 2020 16:42

Instrument :

BNA_F

ClientSampleId :

OWLS-HEAD-BH-04-ADL

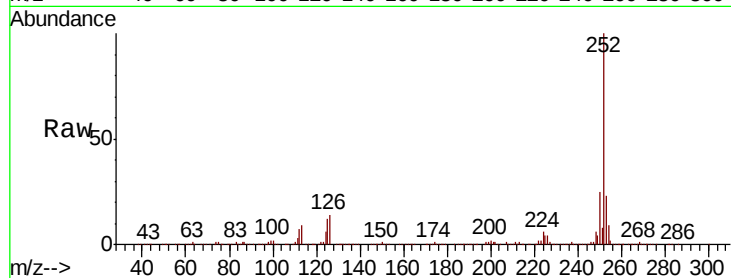
Tot Ion:252 Resp: 1181549

Ion Ratio Lower Upper

252 100

253 22.8 18.2 27.2

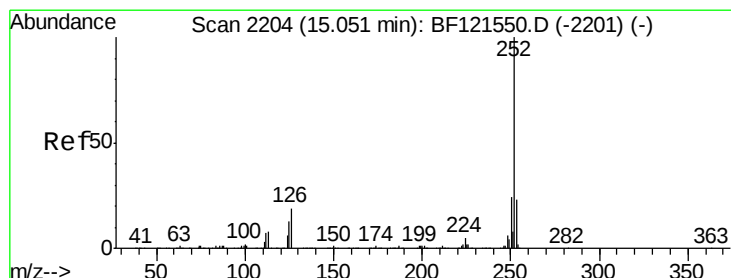
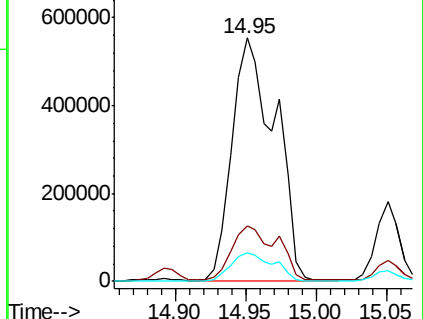
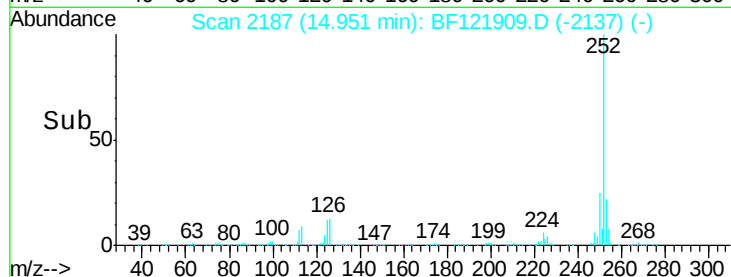
125 11.9 8.0 12.0



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



#89

Benzo(k)fluoranthene

Concen: 61.508 ng

RT: 14.95 min Scan# 2187

Delta R.T. -0.04 min

Lab File: BF121909.D

Acq: 9 Oct 2020 16:42

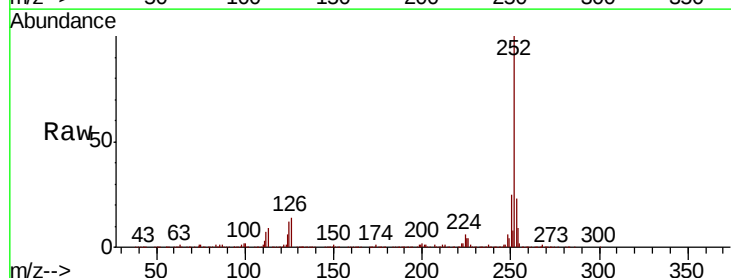
Tgt Ion:252 Resp: 1181549

Ion Ratio Lower Upper

252 100

253 22.8 17.8 26.6

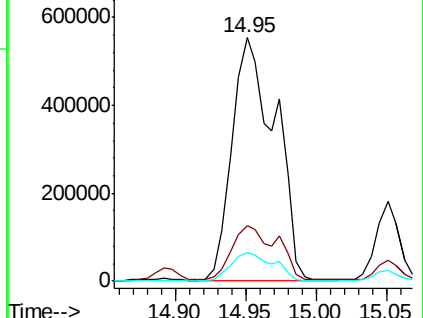
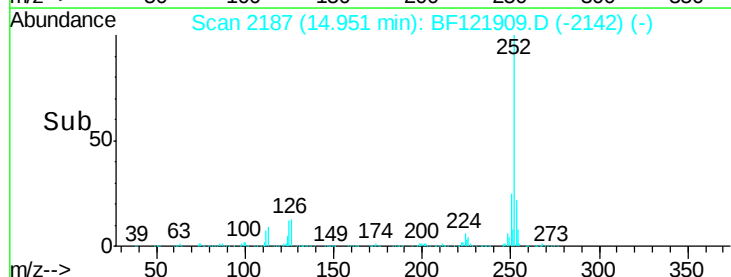
125 11.9 7.7 11.5#

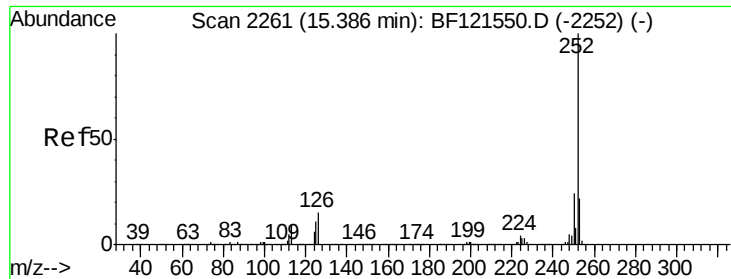


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Benzo(a)pyrene

Concen: 35.226 ng

RT: 15.30 min Scan# 2247

Delta R.T. -0.01 min

Lab File: BF121909.D

Acq: 9 Oct 2020 16:42

Instrument :

BNA_F

ClientSampleId :

OWLS-HEAD-BH-04-ADL

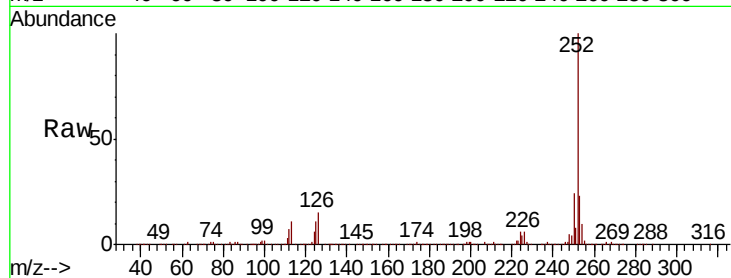
Tot Ion:252 Resp: 628129

Ion Ratio Lower Upper

252 100

253 23.3 17.3 25.9

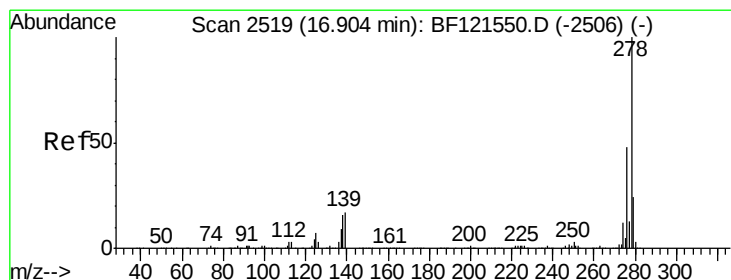
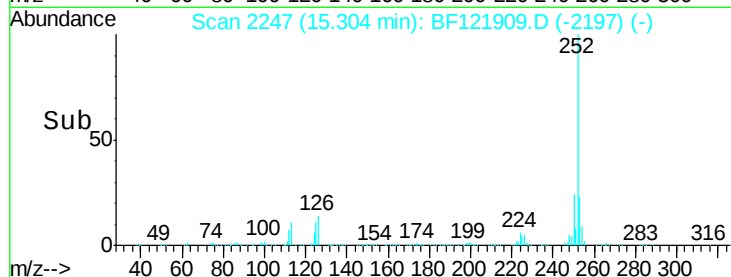
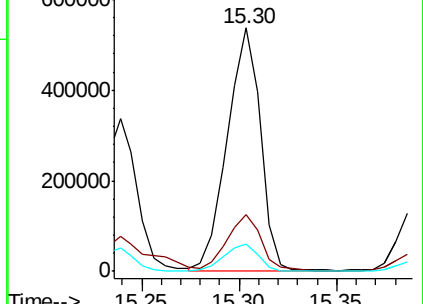
125 11.3 8.6 13.0



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



#91

Dibenzo(a,h)anthracene

Concen: 6.158 ng

RT: 16.94 min Scan# 2525

Delta R.T. 0.14 min

Lab File: BF121909.D

Acq: 9 Oct 2020 16:42

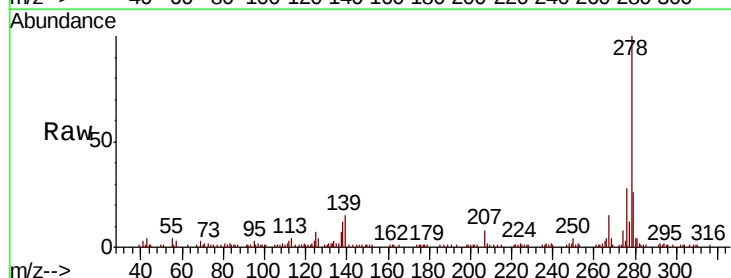
Tgt Ion:278 Resp: 104748

Ion Ratio Lower Upper

278 100

139 14.5 13.0 19.4

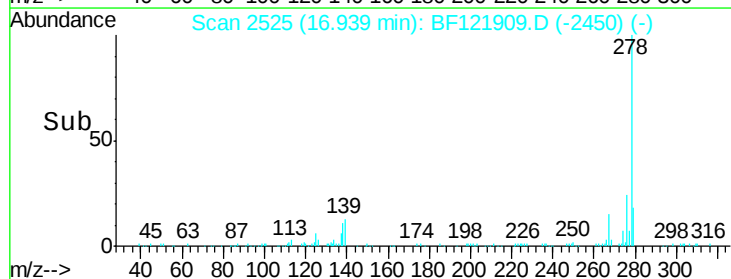
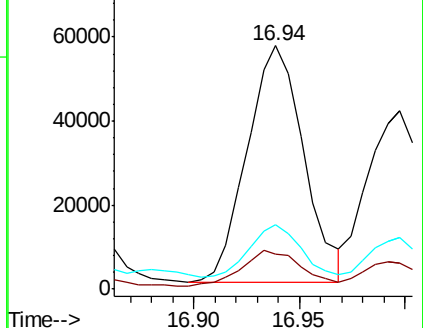
279 26.5 19.0 28.4

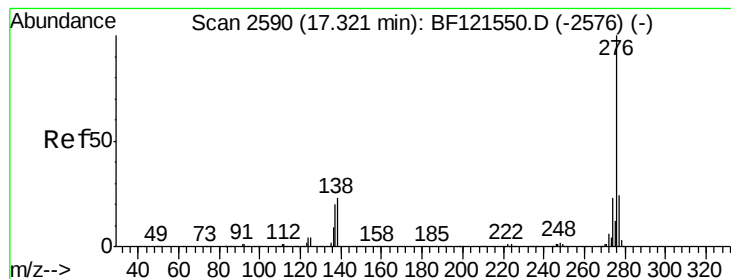


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#92

Benzo(a,h,i)perylene

Concen: 19.710 ng

RT: 17.21 min Scan# 2571

Delta R.T. 0.00 min

Lab File: BF121909.D

Acq: 9 Oct 2020 16:42

Instrument :

BNA_F

ClientSampleId :

OWLS-HEAD-BH-04-ADL

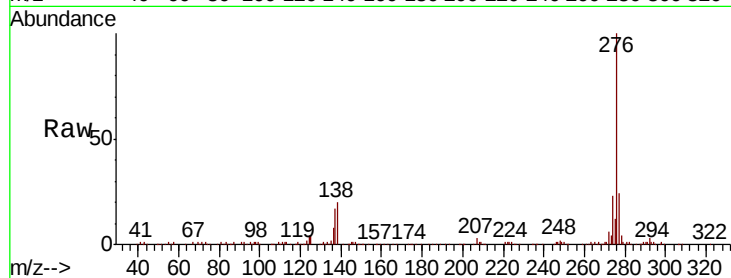
Tot Ion:276 Resp: 329569

Ion Ratio Lower Upper

276 100

277 24.0 19.4 29.2

138 20.4 17.8 26.6



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

