

Data File : BF118506.D
Acq On : 8 Jan 2020 18:53
Operator : JU
Sample : L1049-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-1

Quant Time: Jan 09 03:14:38 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF010820.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 08 16:06:11 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.83	152	67695	20.00	ng	0.00
21) Naphthalene-d8	8.12	136	286331	20.00	ng	0.00
39) Acenaphthene-d10	9.87	164	147778	20.00	ng	-0.01
64) Phenanthrene-d10	11.37	188	244899	20.00	ng	-0.01
76) Chrysene-d12	14.03	240	163019	20.00	ng	-0.01
87) Perylene-d12	15.52	264	208245	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.44	112	291380	71.05	ng	0.00
7) Phenol-d6	6.46	99	392868	80.13	ng	-0.01
23) Nitrobenzene-d5	7.39	82	227268	41.70	ng	-0.01
42) 2,4,6-Tribromophenol	10.67	330	115273	66.11	ng	-0.01
45) 2-Fluorobiphenyl	9.19	172	394386	38.28	ng	-0.01
79) Terphenyl-d14	12.96	244	393770	38.28	ng	-0.01

Target Compounds				Qvalue		
6) Aniline	6.60	93	468	0.077	ng	# 1
9) Benzaldehyde	6.42	77	603	0.221	ng	# 6
10) Phenol	6.47	94	9044	1.665	ng	# 62
11) bis(2-Chloroethyl)ether	6.60	93	468	0.121	ng	# 1
15) Benzyl Alcohol	6.98	79	4237	1.065	ng	# 58
17) 2-Methylphenol	7.28	107	430	0.117	ng	# 41
18) Hexachloroethane	7.36	117	140	0.069	ng	# 1
19) n-Nitroso-di-n-propylamine	7.39	70	31879	10.095	ng	# 74
20) 3+4-Methylphenols	7.28	107	430	0.086	ng	# 23
22) Acetophenone	7.25	105	480	0.066	ng	# 51
24) Nitrobenzene	7.39	77	797	0.147	ng	# 38
25) Isophorone	7.39	82	227264	26.026	ng	# 63
31) Naphthalene	8.13	128	17040	1.138	ng	# 97
33) 4-Chloroaniline	8.13	127	2196	0.356	ng	# 44
35) Caprolactam	8.53	113	431	0.341	ng	# 67
36) 4-Chloro-3-methylphenol	8.48	107	114	0.025	ng	# 18
37) 2-Methylnaphthalene	8.83	142	8941	0.870	ng	# 90
38) 1-Methylnaphthalene	8.93	142	7130	0.739	ng	# 92
46) 1,1'-Biphenyl	9.30	154	3282	0.272	ng	# 90
48) 2-Nitroaniline	9.50	65	110	0.040	ng	# 1
49) Acenaphthylene	9.74	152	10126	0.712	ng	# 92
50) Dimethylphthalate	9.59	163	32587	2.873	ng	# 99
51) 2,6-Dinitrotoluene	9.87	165	19814	8.112	ng	# 23
52) Acenaphthene	9.91	154	7133	0.821	ng	# 99
53) 3-Nitroaniline	10.08	138	257	0.090	ng	# 6
55) Dibenzofuran	10.09	168	9423	0.722	ng	# 96
56) 4-Nitrophenol	10.09	139	4254	3.062	ng	# 10
57) 2,4-Dinitrotoluene	9.87	165	19814	6.058	ng	# 20
58) Fluorene	10.43	166	11446	1.091	ng	# 99
60) Diethylphthalate	10.29	149	362	0.031	ng	# 60
62) 4-Nitroaniline	10.43	138	116	0.041	ng	# 15
63) Azobenzene	10.59	77	1215	0.124	ng	# 1
65) 4,6-Dinitro-2-methylphenol	10.67	198	124	0.096	ng	# 1
66) n-Nitrosodiphenylamine	10.53	169	2014	0.253	ng	# 66

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) 4-Bromophenyl-phenylether	10.67	248	7031	2.451	ng	# 1
71) Phenanthrene	11.39	178	99668	7.265	ng	97
72) Anthracene	11.45	178	22618	1.657	ng	99
73) Carbazole	11.61	167	7182	0.607	ng	96
74) Di-n-butylphthalate	11.93	149	3195	0.203	ng	# 77
75) Fluoranthene	12.59	202	128613	9.224	ng	96
77) Benzidine	12.96	184	5738	Below Cal		# 96
78) Pyrene	12.82	202	114048	8.503	ng	99
80) Butylbenzylphthalate	13.43	149	1068	0.174	ng	# 71
81) Benzo(a)anthracene	14.02	228	71135	6.234	ng	95
82) 3,3'-Dichlorobenzidine	13.94	252	121	0.033	ng	# 1
83) Chrysene	14.05	228	61978	5.590	ng	98
84) Bis(2-ethylhexyl)phthalate	13.99	149	1593	0.191	ng	# 82
85) Di-n-octyl phthalate	14.60	149	1325	0.111	ng	# 1
86) Indeno(1,2,3-cd)pyrene	17.02	276	35050	3.926	ng	99
88) Benzo(b)fluoranthene	15.08	252	126751	8.419	ng	99
89) Benzo(k)fluoranthene	15.08	252	126751	8.820	ng	99
90) Benzo(a)pyrene	15.45	252	59543	4.826	ng	98
91) Dibenzo(a,h)anthracene	17.25	278	4051	0.350	ng	93
92) Benzo(g,h,i)perylene	17.47	276	33363	3.044	ng	98

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

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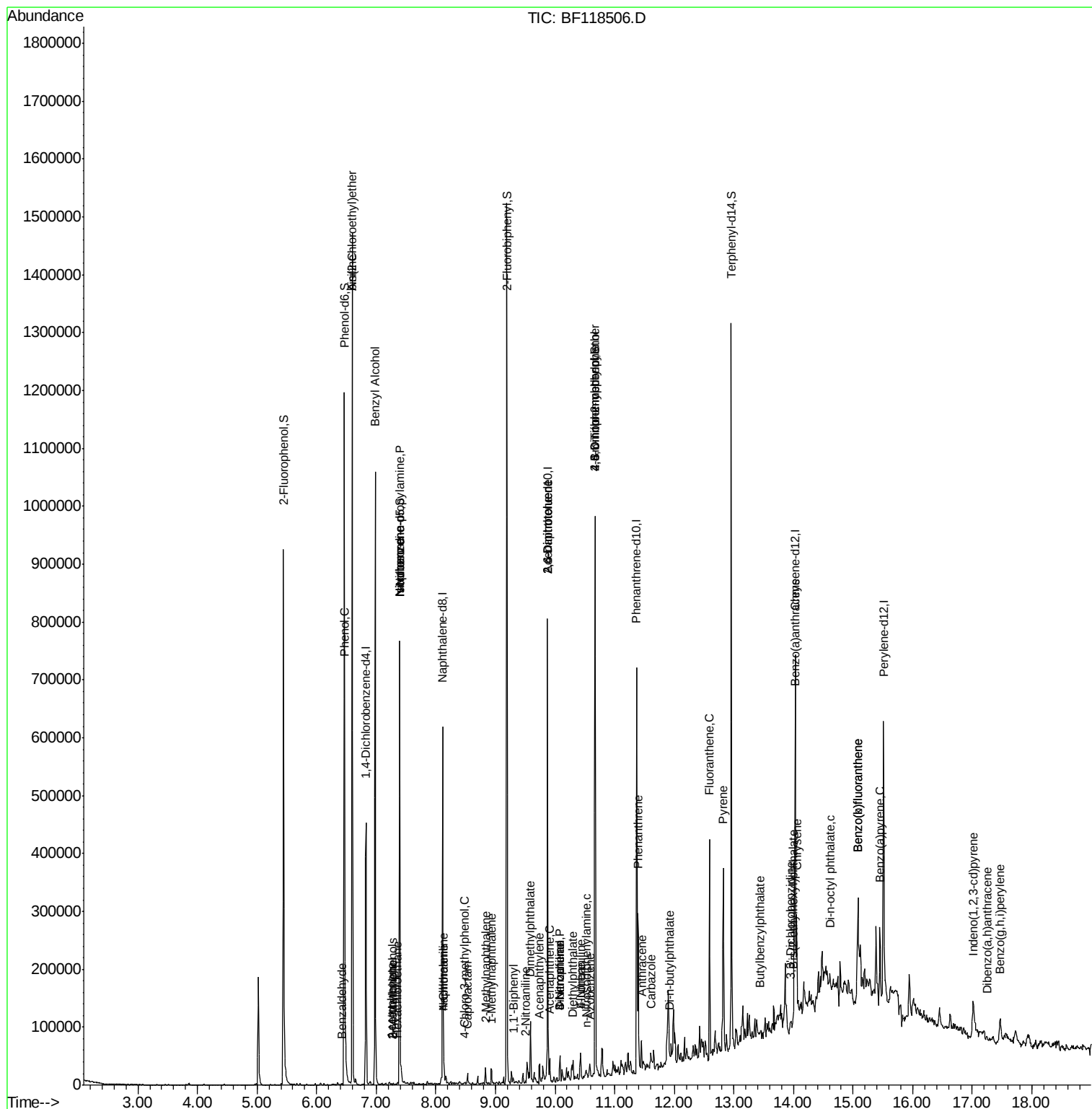
Quant Time: Jan 09 03:14:38 2020

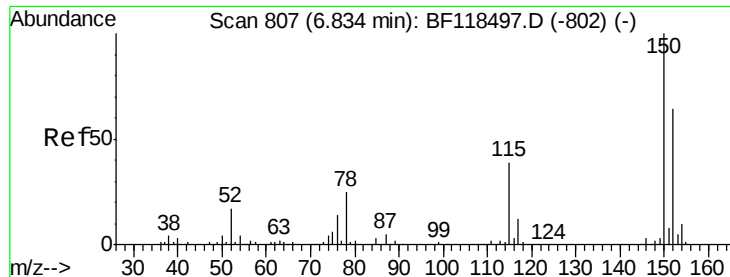
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF010820.M

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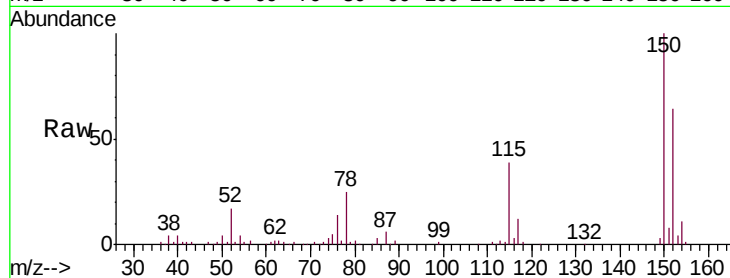


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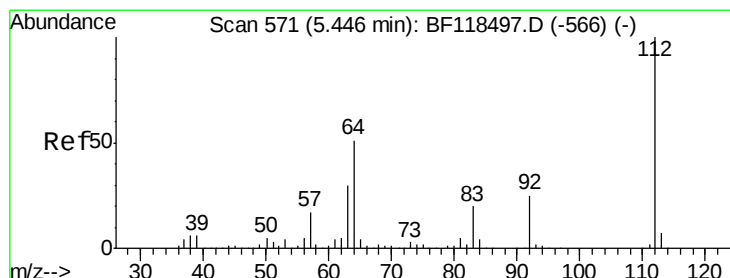
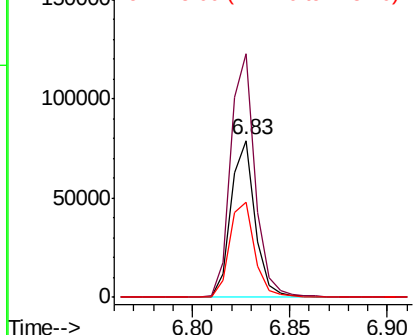
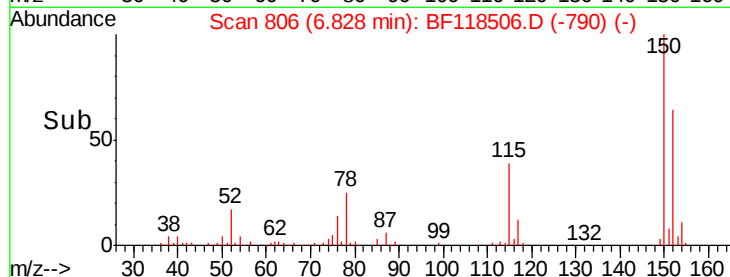
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.83 min Scan# 806
 Delta R.T. -0.01 min
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Tgt Ion:152 Resp: 67695
 Ion Ratio Lower Upper
 152 100
 150 155.3 124.7 187.1
 115 61.0 49.0 73.6



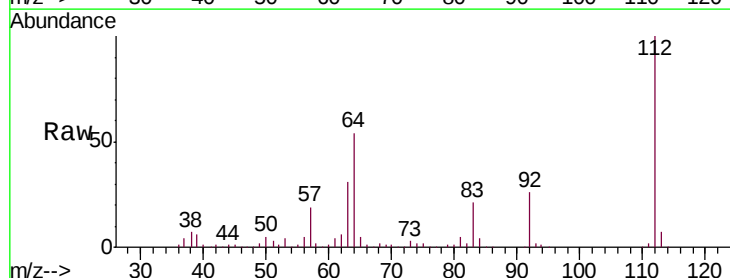
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



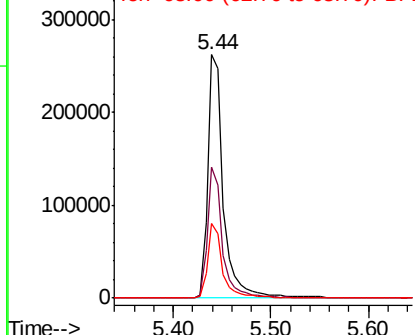
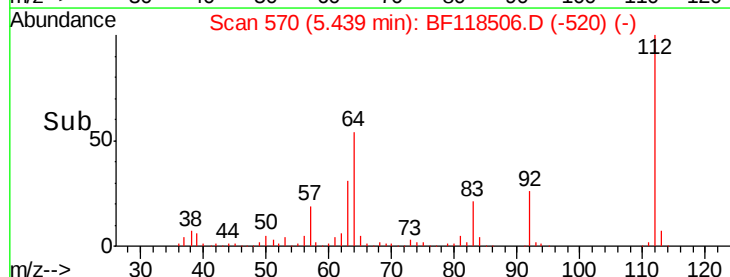
#5

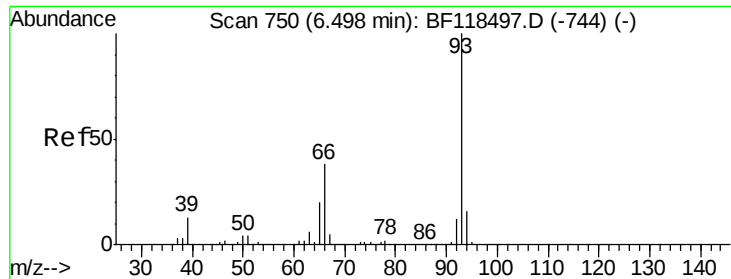
2-Fluorophenol
 Concen: 71.053 ng
 RT: 5.44 min Scan# 570
 Delta R.T. -0.01 min
 Lab File: BF118506.D
 Acq: 8 Jan 2020 18:53

Tgt Ion:112 Resp: 291380
 Ion Ratio Lower Upper
 112 100
 64 53.9 41.1 61.7
 63 30.9 24.1 36.1



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: 0.077 ng

RT: 6.60 min Scan# 767

Delta R.T. 0.10 min

Lab File: BF118506.D

Acq: 8 Jan 2020 18:53

Instrument :

BNA_F

ClientSampleID :

TP-1

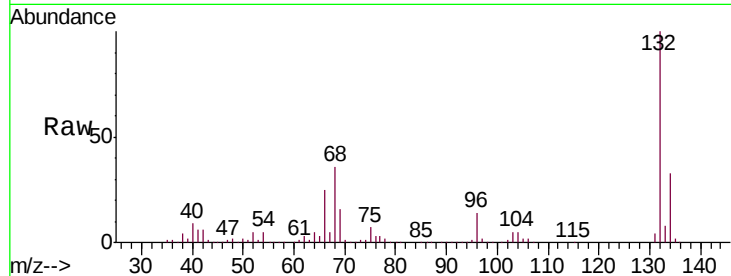
Tgt Ion: 93 Resp: 468

Ion Ratio Lower Upper

93 100

66 22714.2 33.4 50.0#

65 2367.0 16.7 25.1#



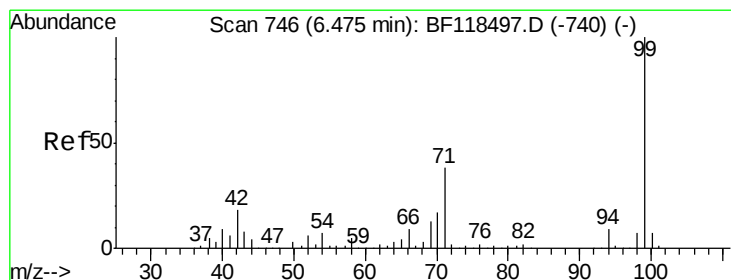
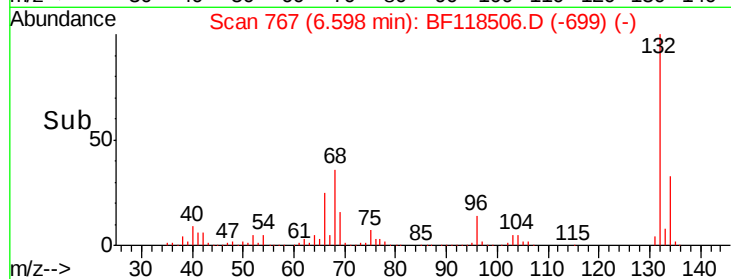
Abundance Ion 93.00 (92.70 to 93.70): BF1
Ion 66.00 (65.70 to 66.70): BF1
Ion 65.00 (64.70 to 65.70): BF1

100000

50000

0

Time-->



#7

Phenol-d6

Concen: 80.131 ng

RT: 6.46 min Scan# 744

Delta R.T. -0.01 min

Lab File: BF118506.D

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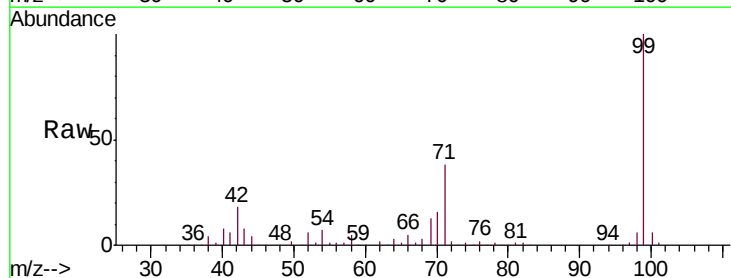
Tgt Ion: 99 Resp: 392868

Ion Ratio Lower Upper

99 100

42 17.8 14.5 21.7

71 37.6 30.6 45.8



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

600000

500000

400000

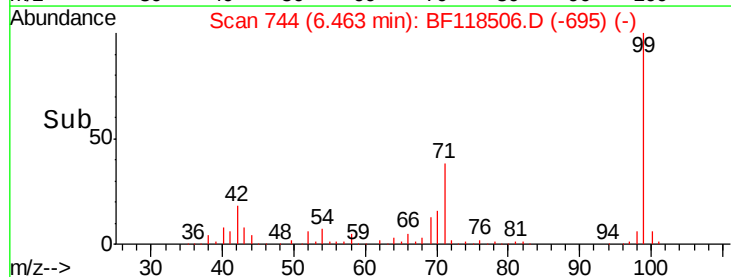
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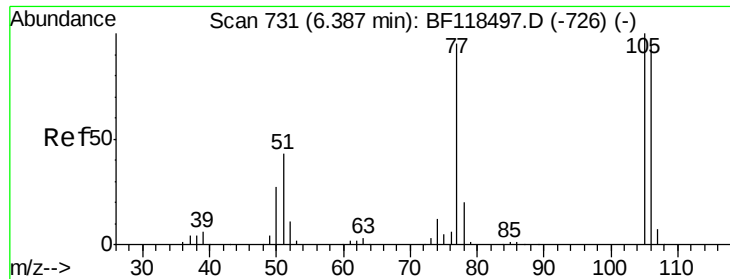
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100000

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Time-->

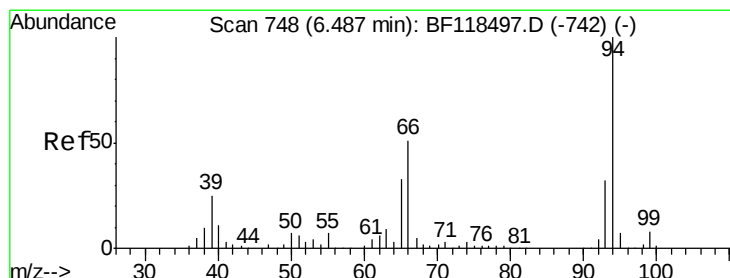
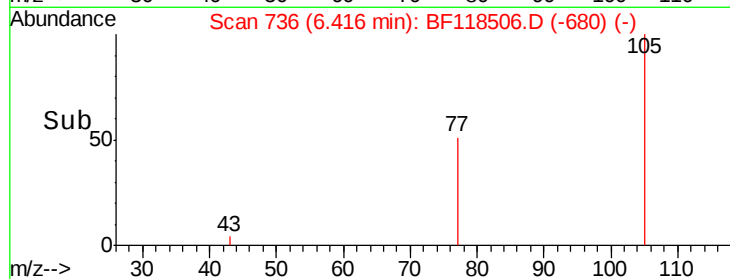
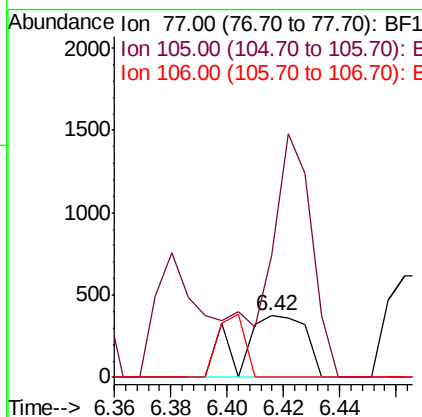
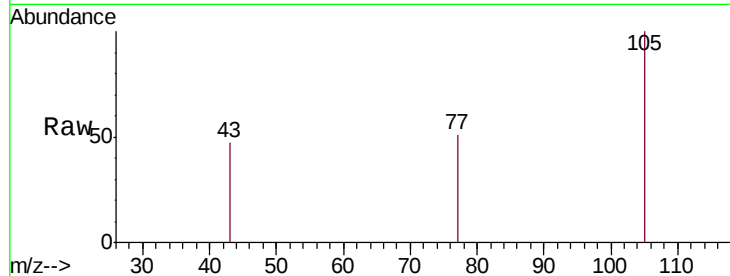




#9
Benzaldehyde
Concen: 0.221 ng
RT: 6.42 min Scan# 736
Delta R.T. 0.03 min
Lab File: BF118506.D
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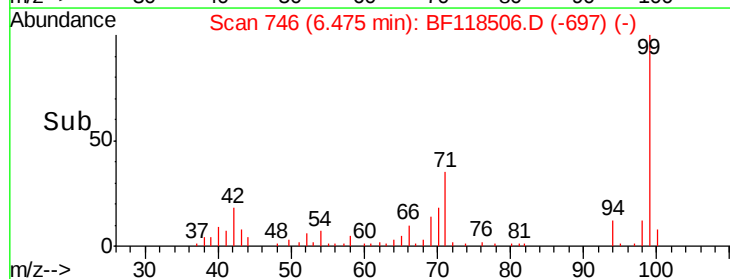
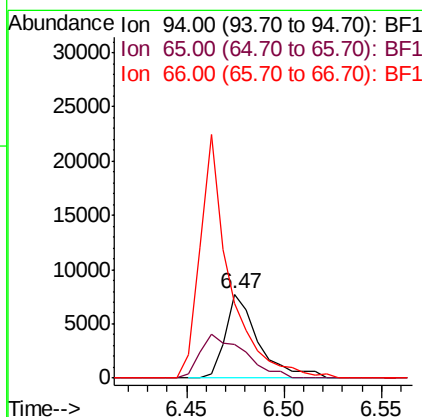
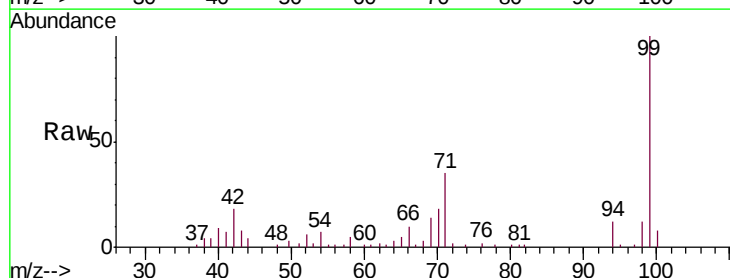
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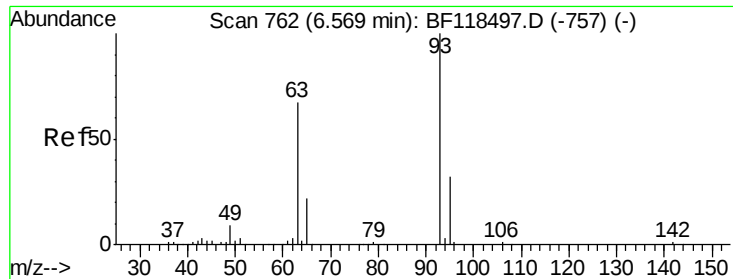
Tgt Ion: 77 Resp: 603
Ion Ratio Lower Upper
77 100
105 197.1 85.4 125.4#
106 0.0 79.5 119.5#



#10
Phenol
Concen: 1.665 ng
RT: 6.47 min Scan# 746
Delta R.T. -0.01 min
Lab File: BF118506.D
Acq: 8 Jan 2020 18:53

Tgt Ion: 94 Resp: 9044
Ion Ratio Lower Upper
94 100
65 40.2 13.3 53.3
66 89.3 30.9 70.9#

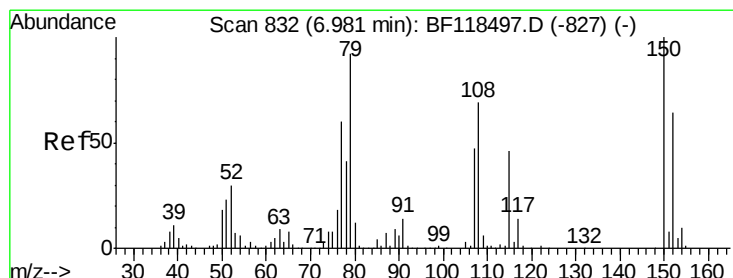
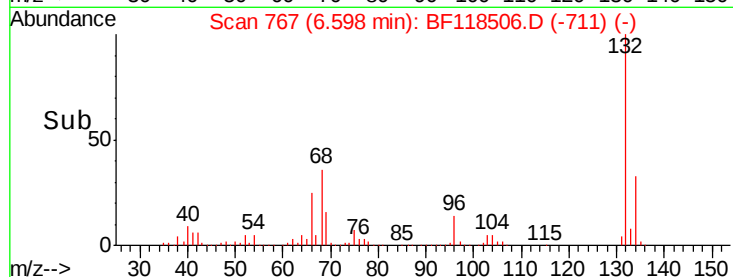
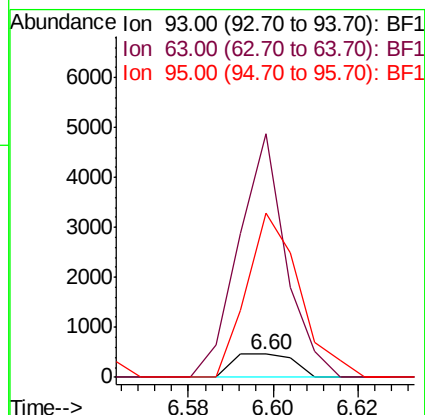
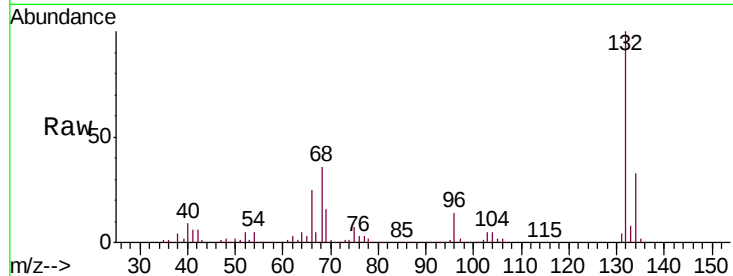




#11
bis(2-Chloroethyl)ether
Concen: 0.121 ng
RT: 6.60 min Scan# 767
Delta R.T. 0.03 min
Lab File: BF118506.D
Acq: 8 Jan 2020 18:53

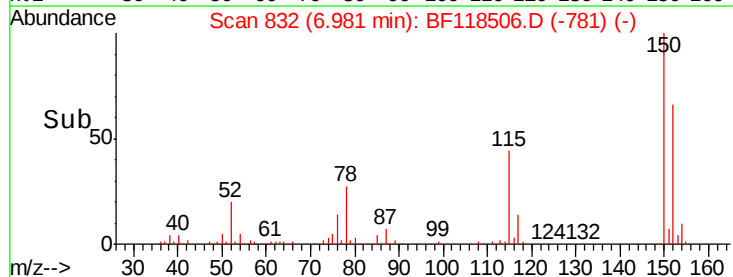
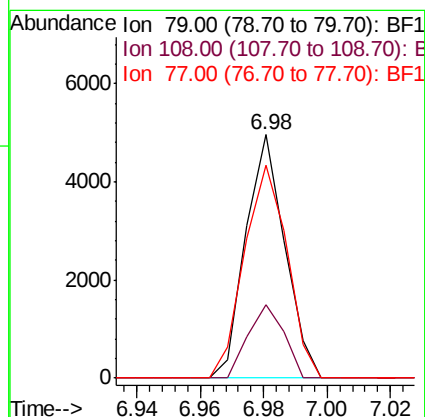
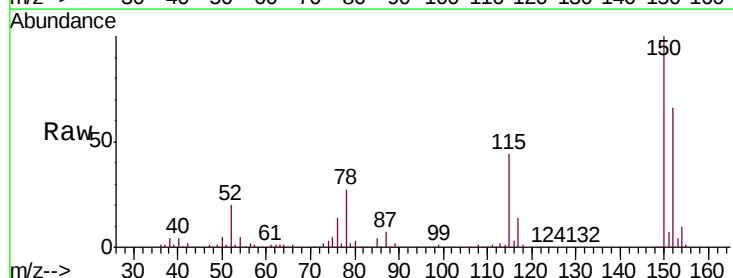
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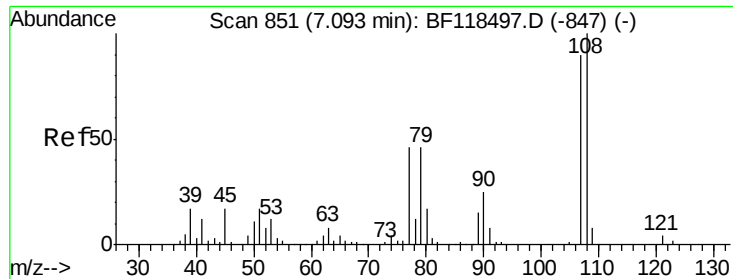
Tgt Ion: 93 Resp: 468
Ion Ratio Lower Upper
93 100
63 1045.5 46.6 86.6#
95 707.7 11.5 51.5#



#15
Benzyl Alcohol
Concen: 1.065 ng
RT: 6.98 min Scan# 832
Delta R.T. -0.00 min
Lab File: BF118506.D
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Tgt Ion: 79 Resp: 4237
Ion Ratio Lower Upper
79 100
108 30.2 60.2 90.2#
77 87.2 51.8 77.8#

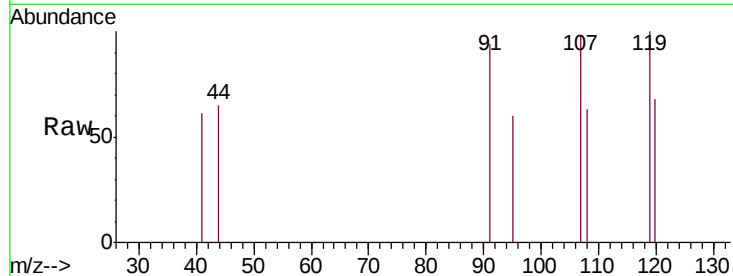




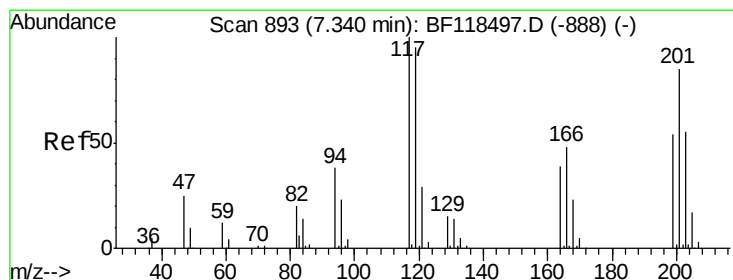
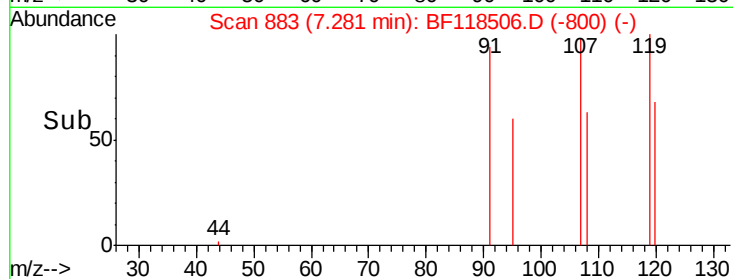
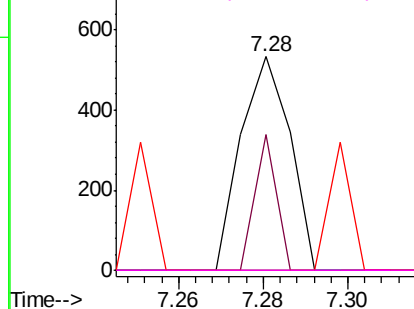
#17
2-Methylphenol
Concen: 0.117 ng
RT: 7.28 min Scan# 883
Delta R.T. 0.19 min
Lab File: BF118506.D
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Instrument :
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Tgt Ion:107 Resp: 430
Ion Ratio Lower Upper
107 100
108 63.7 88.9 133.3#
77 0.0 41.2 61.8#
79 0.0 41.6 62.4#

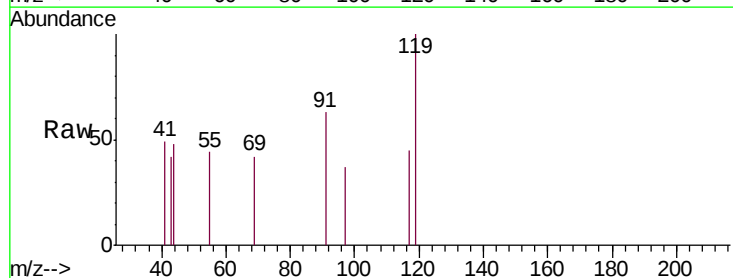


Abundance Ion 107.00 (106.70 to 107.70): E
Ion 108.00 (107.70 to 108.70): E
Ion 77.00 (76.70 to 77.70): BF1
Ion 79.00 (78.70 to 79.70): BF1

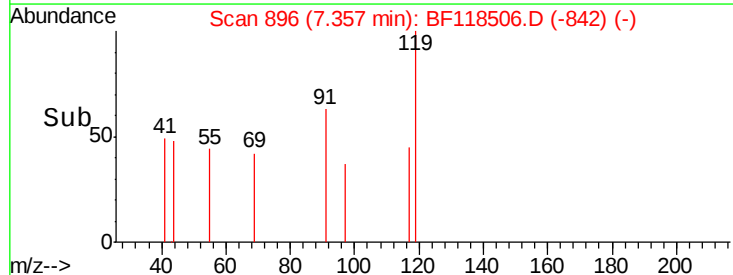
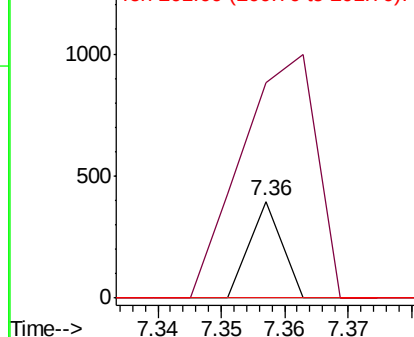


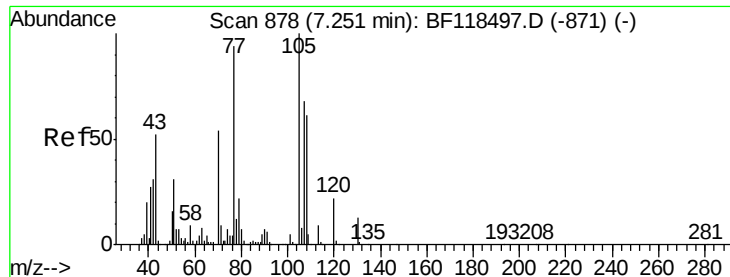
#18
Hexachloroethane
Concen: 0.069 ng
RT: 7.36 min Scan# 896
Delta R.T. 0.02 min
Lab File: BF118506.D
Acq: 8 Jan 2020 18:53

Tgt Ion:117 Resp: 140
Ion Ratio Lower Upper
117 100
119 221.7 76.2 114.4#
201 0.0 67.7 101.5#



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

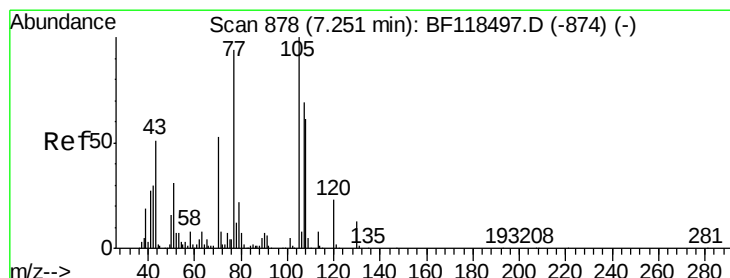
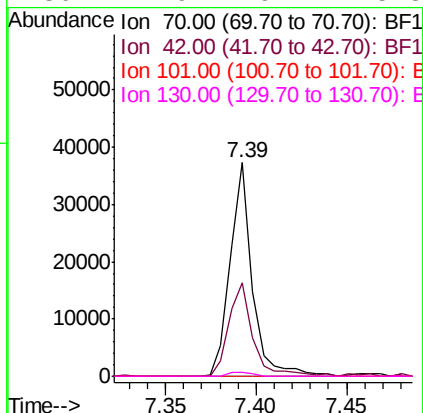
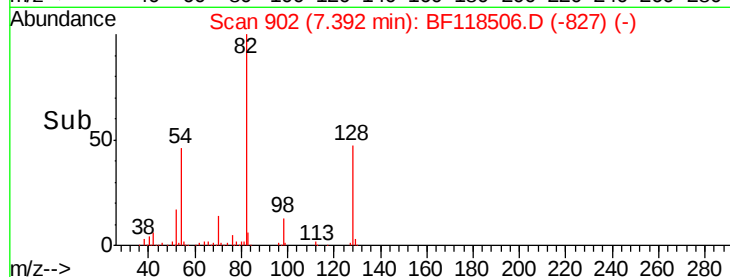
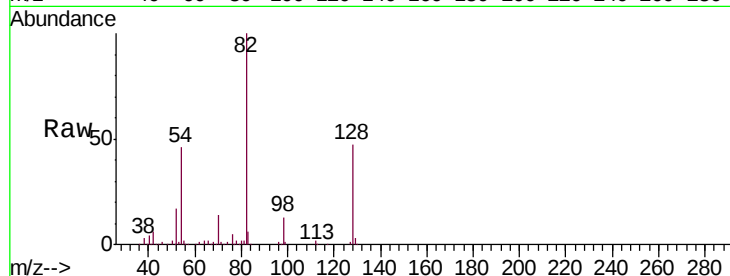




#19
n-Nitroso-di-n-propylamine
Concen: 10.095 ng
RT: 7.39 min Scan# 902
Delta R.T. 0.14 min
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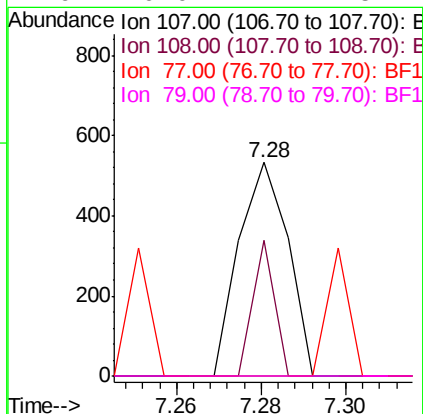
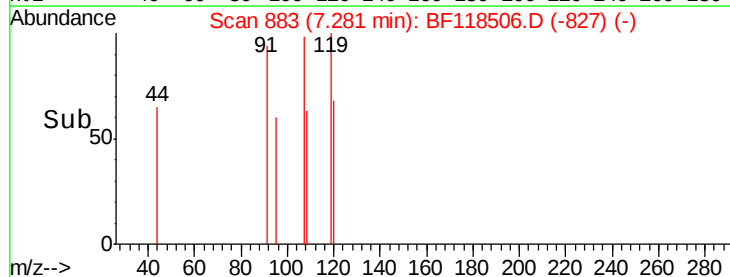
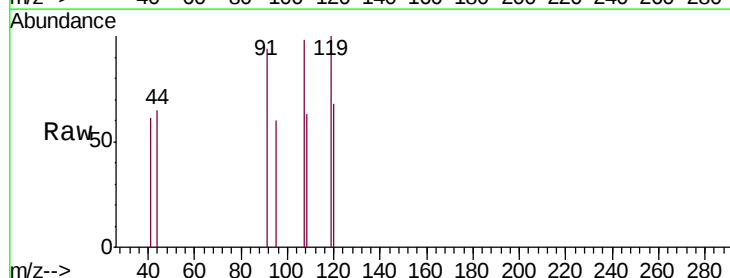
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ClientSampleId :
TP-1

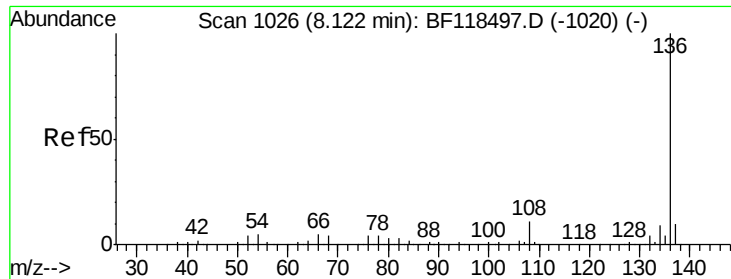
Tgt Ion: 70 Resp: 31879
Ion Ratio Lower Upper
70 100
42 43.9 45.6 68.4#
101 0.0 8.2 12.2#
130 1.9 19.2 28.8#



#20
3+4-Methylphenols
Concen: 0.086 ng
RT: 7.28 min Scan# 883
Delta R.T. 0.03 min
Lab File: BF118506.D
Acq: 8 Jan 2020 18:53

Tgt Ion: 107 Resp: 430
Ion Ratio Lower Upper
107 100
108 63.7 68.9 108.9#
77 0.0 116.8 156.8#
79 0.0 11.7 51.7#

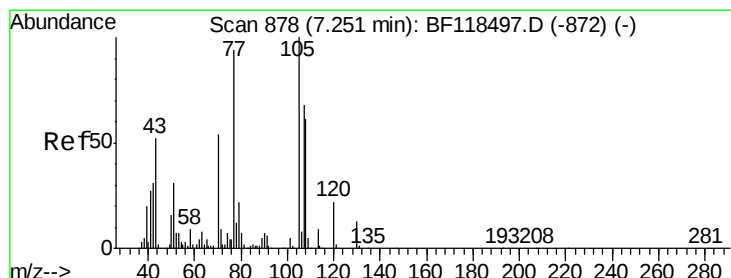
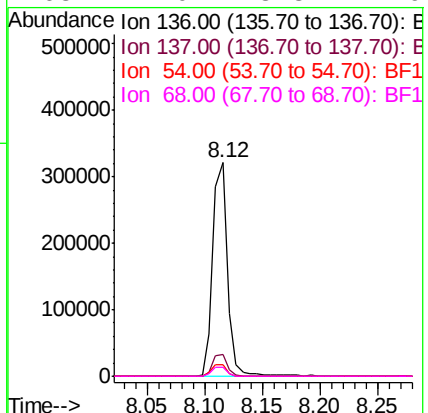
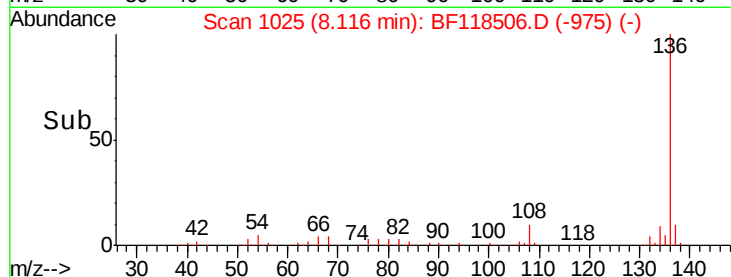
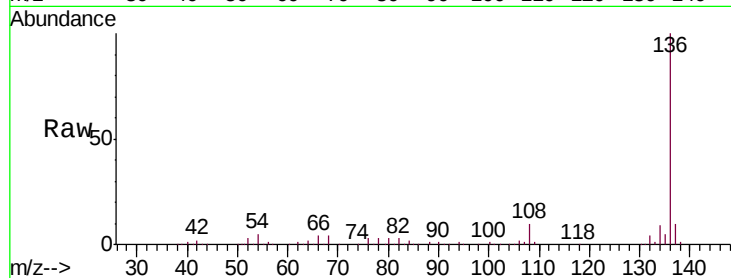




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.12 min Scan# 1025
Delta R.T. -0.01 min
Lab File: BF118506.D
Acq: 8 Jan 2020 18:53

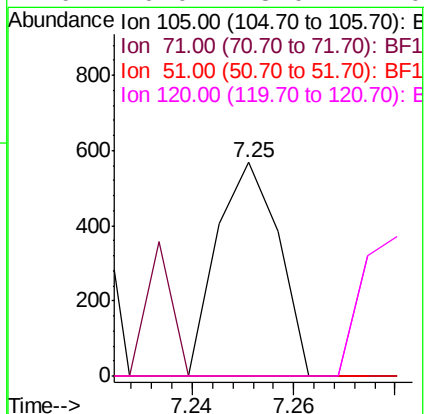
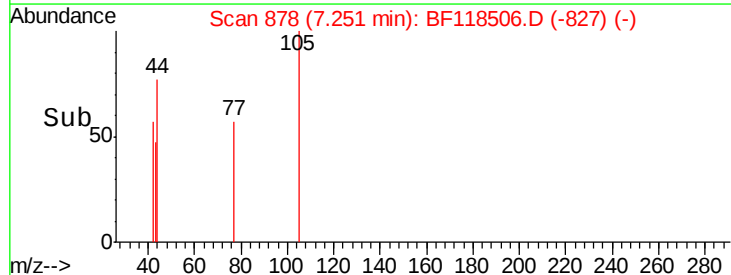
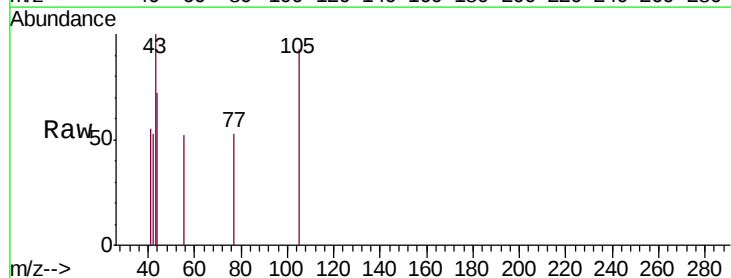
Instrument :
BNA_F
ClientSampleId :
TP-1

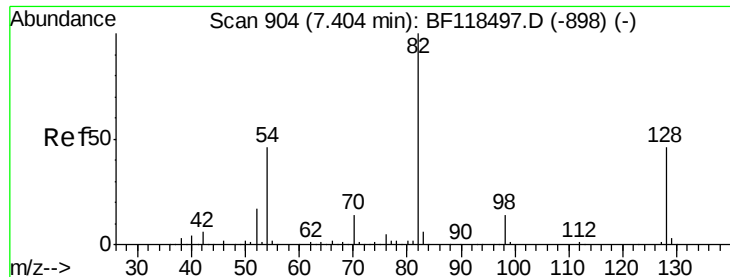
Tgt Ion:	136	Resp:	286331
Ion	Ratio	Lower	Upper
136	100		
137	10.0	8.3	12.5
54	5.5	4.2	6.2
68	4.0	3.3	4.9



#22
Acetophenone
Concen: 0.066 ng
RT: 7.25 min Scan# 878
Delta R.T. -0.00 min
Lab File: BF118506.D
Acq: 8 Jan 2020 18:53

Tgt Ion:	105	Resp:	480
Ion	Ratio	Lower	Upper
105	100		
71	0.0	6.9	10.3#
51	0.0	25.0	37.4#
120	0.0	18.0	27.0#





#23

Nitrobenzene-d5

Concen: 41.695 ng

RT: 7.39 min Scan# 902

Delta R.T. -0.01 min

Lab File: BF118506.D

Acq: 8 Jan 2020 18:53

Instrument :

BNA_F

ClientSampleId :

TP-1

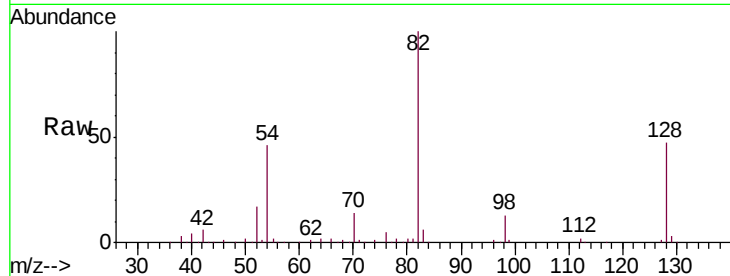
Tgt Ion: 82 Resp: 227268

Ion Ratio Lower Upper

82 100

128 47.1 36.6 54.8

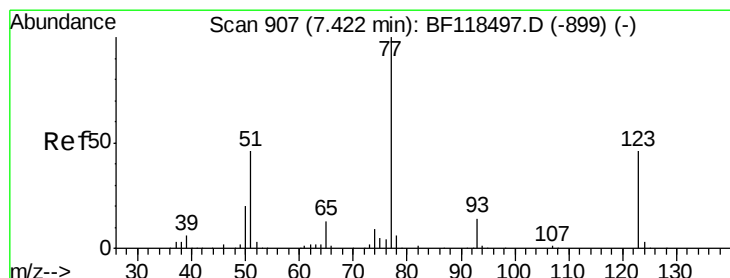
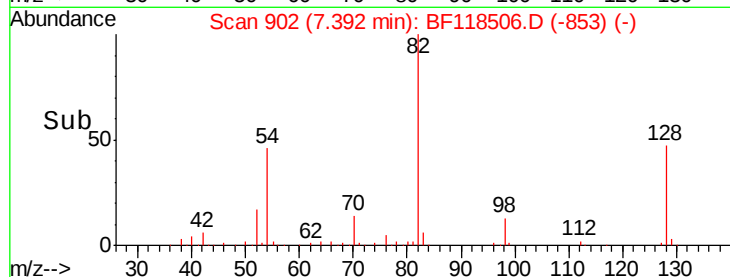
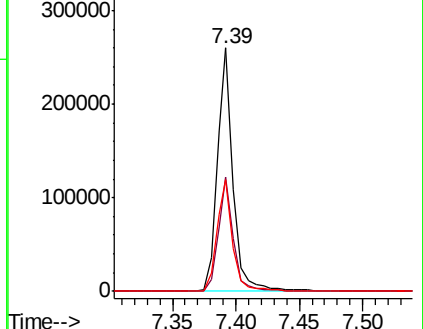
54 45.7 37.0 55.6



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): BF1

Ion 54.00 (53.70 to 54.70): BF1



#24

Nitrobenzene

Concen: 0.147 ng

RT: 7.39 min Scan# 901

Delta R.T. -0.04 min

Lab File: BF118506.D

Acq: 8 Jan 2020 18:53

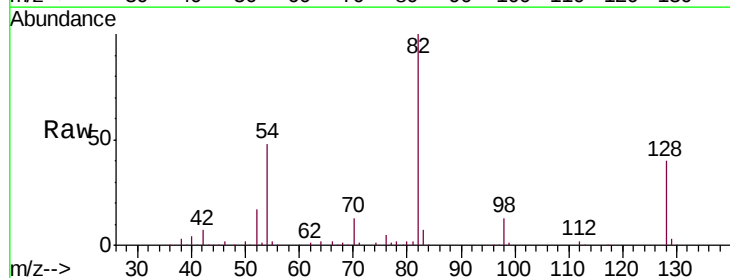
Tgt Ion: 77 Resp: 797

Ion Ratio Lower Upper

77 100

123 0.0 37.0 55.4#

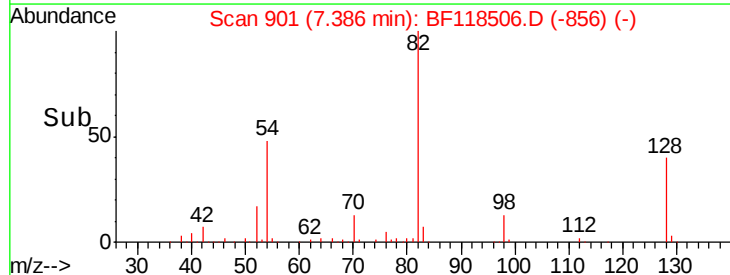
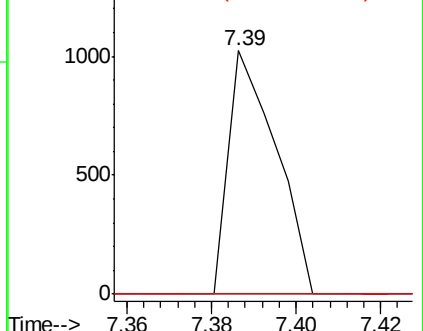
65 0.0 10.7 16.1#

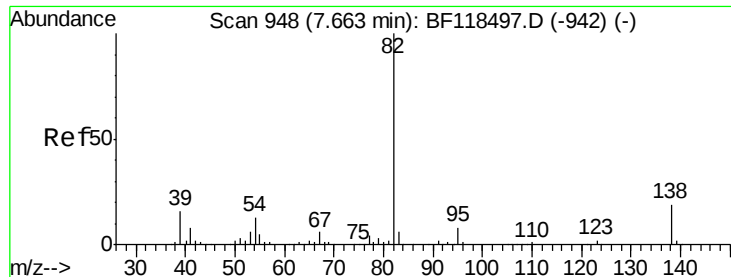


Abundance Ion 77.00 (76.70 to 77.70): BF1

Ion 123.00 (122.70 to 123.70): BF1

Ion 65.00 (64.70 to 65.70): BF1





#25

Isophorone

Concen: 26.026 ng

RT: 7.39 min Scan# 902

Delta R.T. -0.27 min

Lab File: BF118506.D

Acq: 8 Jan 2020 18:53

Instrument :

BNA_F

ClientSampleId :

TP-1

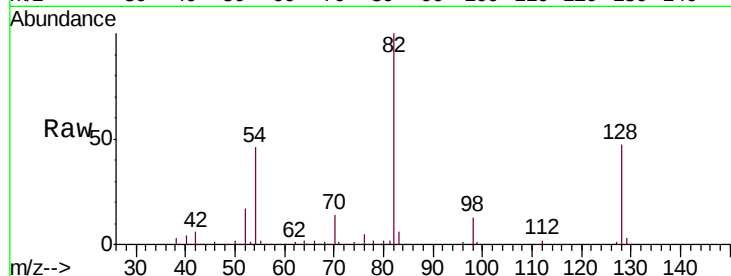
Tgt Ion: 82 Resp: 227264

Ion Ratio Lower Upper

82 100

95 0.0 6.6 9.8#

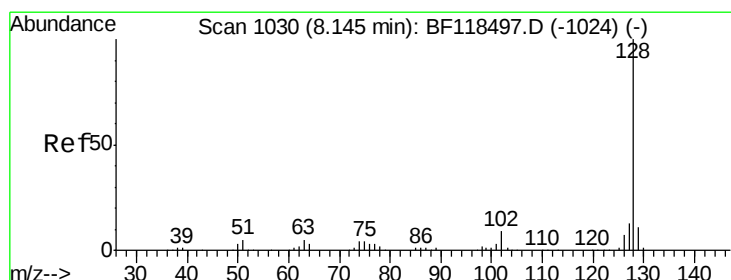
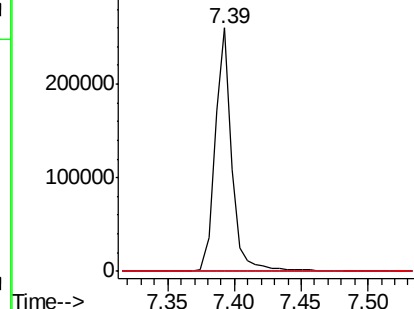
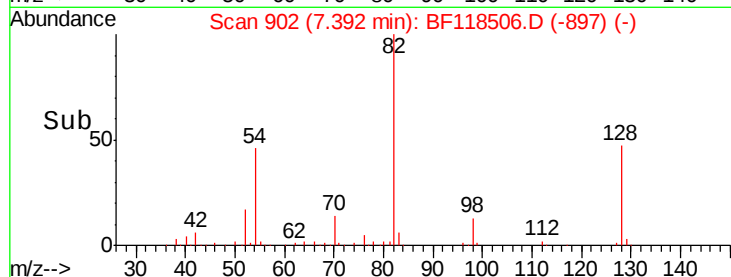
138 0.0 15.4 23.2#



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



#31

Naphthalene

Concen: 1.138 ng

RT: 8.13 min Scan# 1028

Delta R.T. -0.01 min

Lab File: BF118506.D

Acq: 8 Jan 2020 18:53

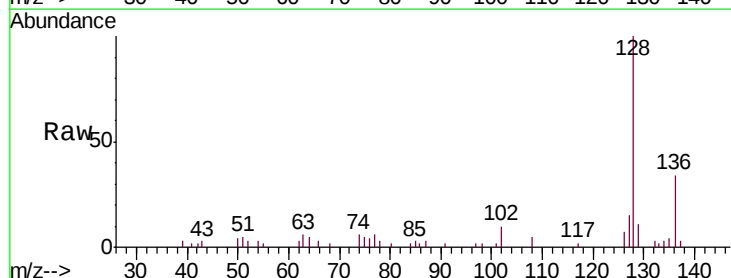
Tgt Ion: 128 Resp: 17040

Ion Ratio Lower Upper

128 100

129 11.0 8.6 12.8

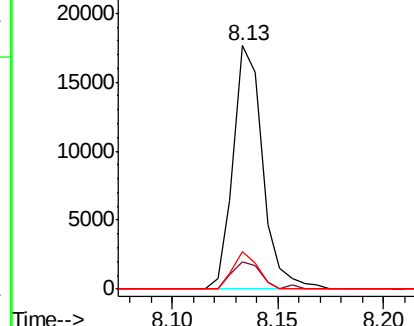
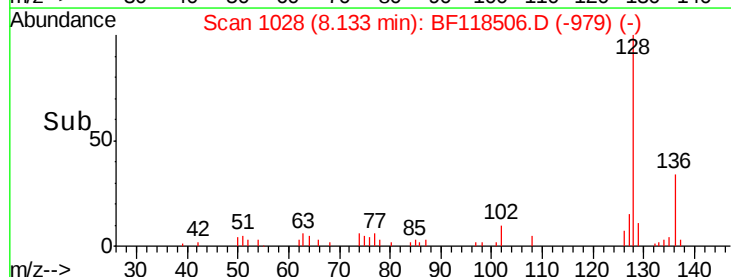
127 15.4 10.7 16.1

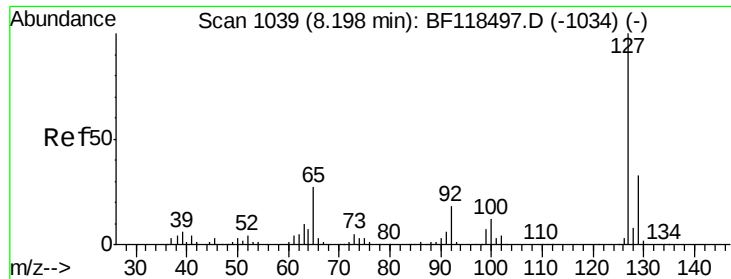


Abundance Ion 128.00 (127.70 to 128.70): BF1

Ion 129.00 (128.70 to 129.70): BF1

Ion 127.00 (126.70 to 127.70): BF1

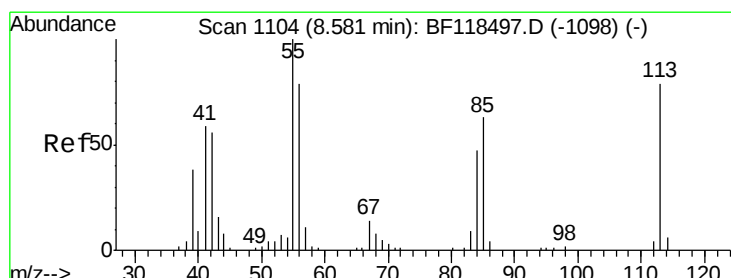
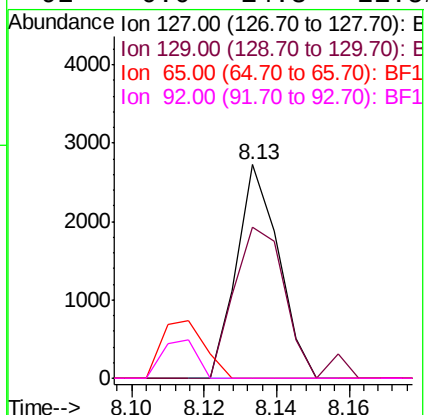
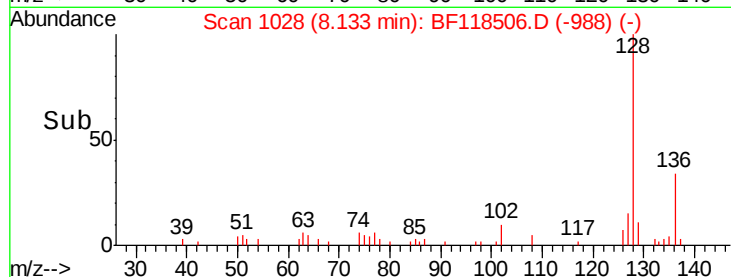
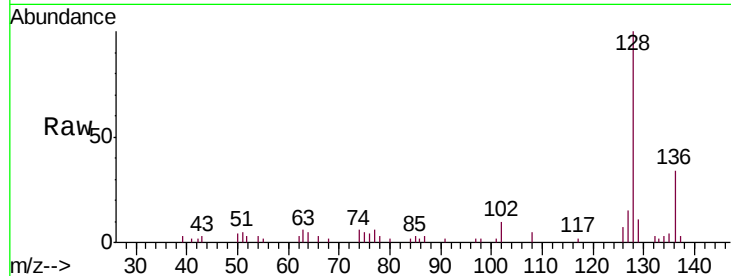




#33
4-Chloroaniline
Concen: 0.356 ng
RT: 8.13 min Scan# 1028
Delta R.T. -0.06 min
Lab File: BF118506.D
Acq: 8 Jan 2020 18:53

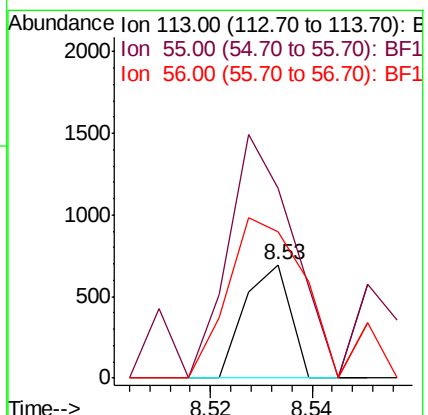
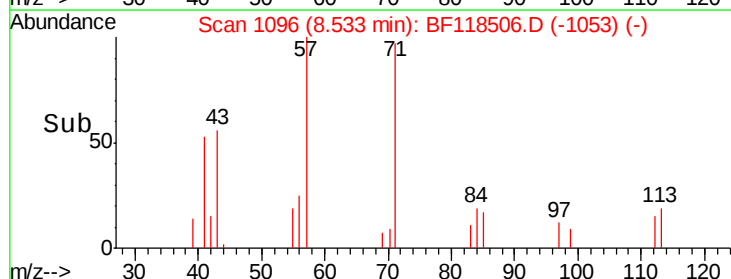
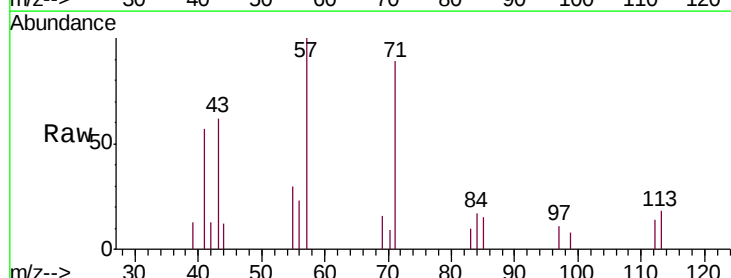
Instrument :
BNA_F
ClientSampleId :
TP-1

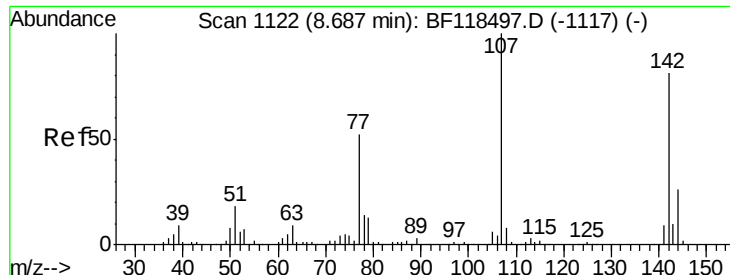
Tgt Ion:	127	Resp:	2196
Ion	Ratio	Lower	Upper
127	100		
129	71.0	26.2	39.4#
65	0.0	21.6	32.4#
92	0.0	14.3	21.5#



#35
Caprolactam
Concen: 0.341 ng
RT: 8.53 min Scan# 1096
Delta R.T. -0.05 min
Lab File: BF118506.D
Acq: 8 Jan 2020 18:53

Tgt Ion:	113	Resp:	431
Ion	Ratio	Lower	Upper
113	100		
55	168.1	106.5	146.5#
56	129.6	80.1	120.1#

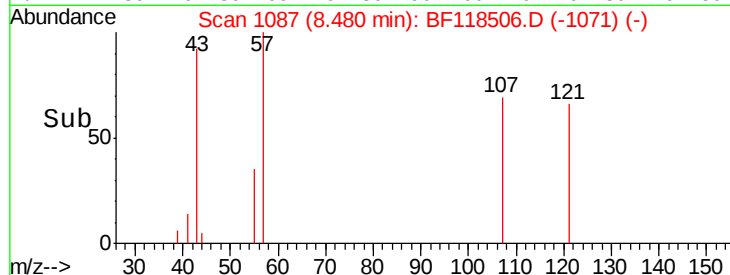
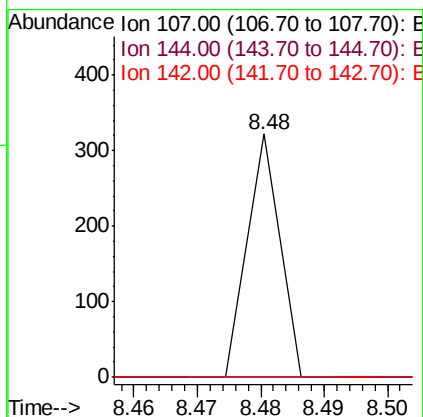
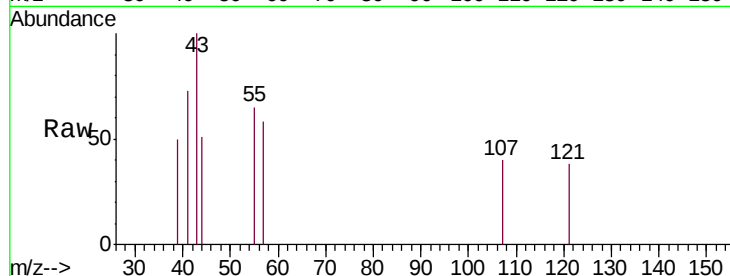




#36
 4-Chloro-3-methylphenol
 Concen: 0.025 ng
 RT: 8.48 min Scan# 1087
 Delta R.T. -0.21 min
 Lab File: BF118506.D
 Acq: 8 Jan 2020 18:53

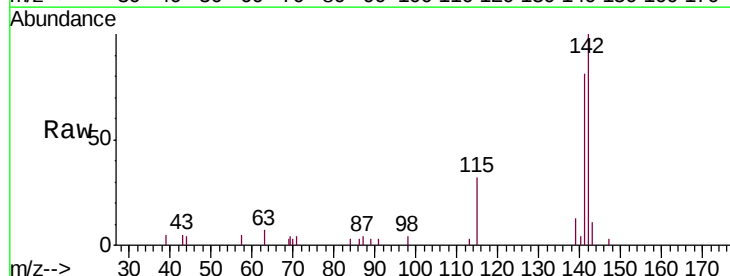
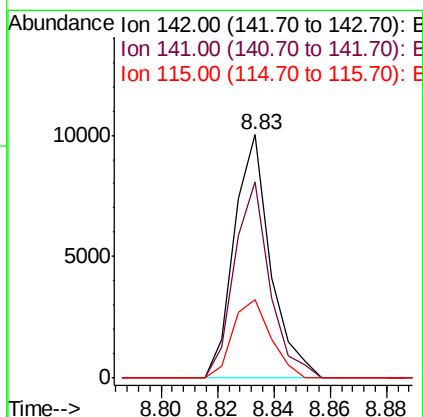
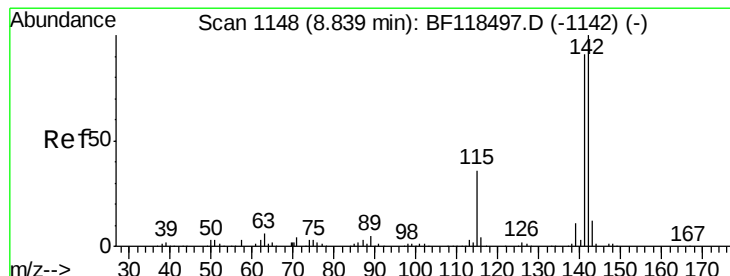
Instrument :
 BNA_F
 ClientSampleId :
 TP-1

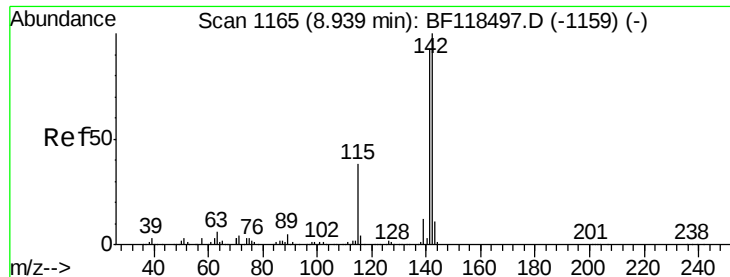
Tgt Ion: 107 Resp: 114
 Ion Ratio Lower Upper
 107 100
 144 0.0 20.6 31.0#
 142 0.0 65.0 97.4#



#37
 2-Methylnaphthalene
 Concen: 0.870 ng
 RT: 8.83 min Scan# 1147
 Delta R.T. -0.01 min
 Lab File: BF118506.D
 Acq: 8 Jan 2020 18:53

Tgt Ion: 142 Resp: 8941
 Ion Ratio Lower Upper
 142 100
 141 80.6 73.0 109.6
 115 32.0 28.4 42.6

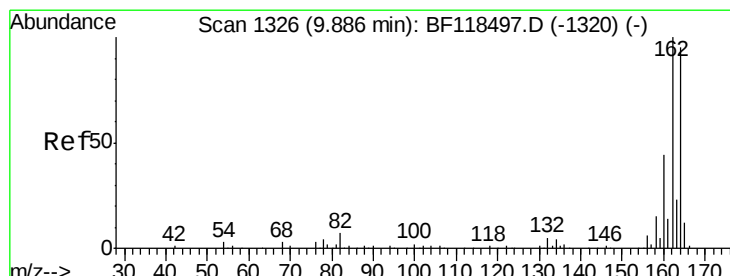
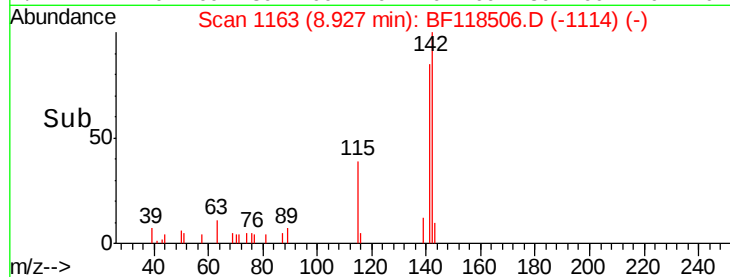
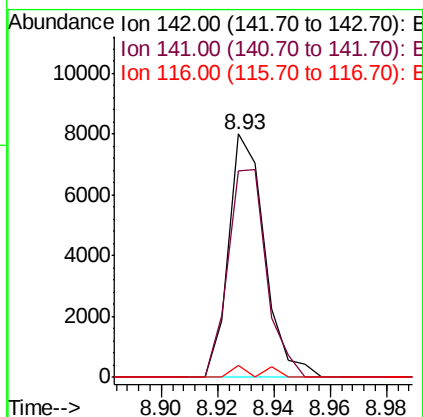
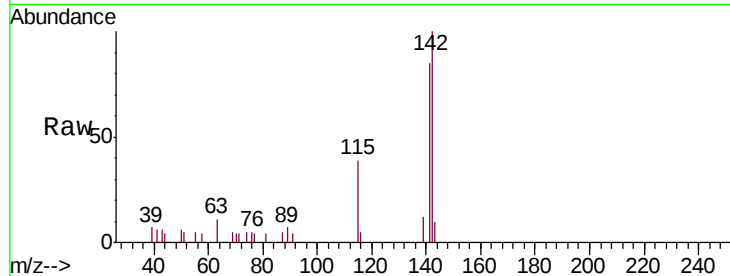




#38
 1-Methylnaphthalene
 Concen: 0.739 ng
 RT: 8.93 min Scan# 1163
 Delta R.T. -0.01 min
 Lab File: BF118506.D
 Acq: 8 Jan 2020 18:53

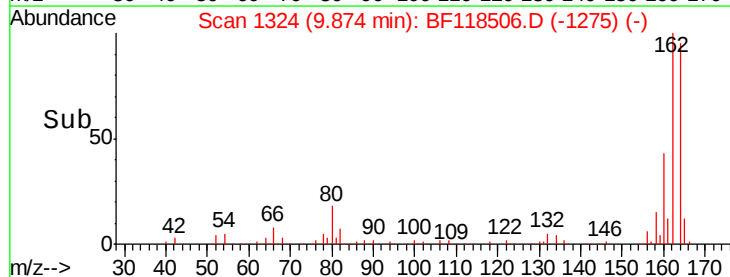
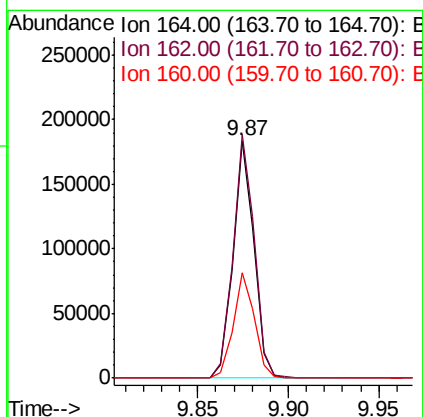
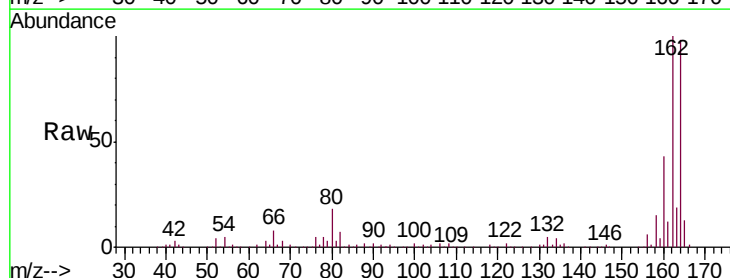
Instrument :
 BNA_F
 ClientSampled :
 TP-1

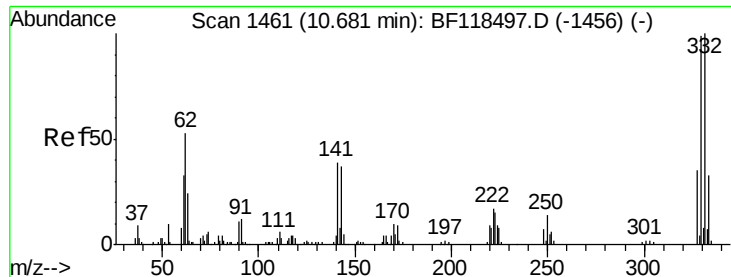
Tgt Ion:142 Resp: 7130
 Ion Ratio Lower Upper
 142 100
 141 85.0 74.3 111.5
 116 5.1 3.2 4.8#



#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.87 min Scan# 1324
 Delta R.T. -0.01 min
 Lab File: BF118506.D
 Acq: 8 Jan 2020 18:53

Tgt Ion:164 Resp: 147778
 Ion Ratio Lower Upper
 164 100
 162 102.4 84.2 126.4
 160 44.1 36.8 55.2

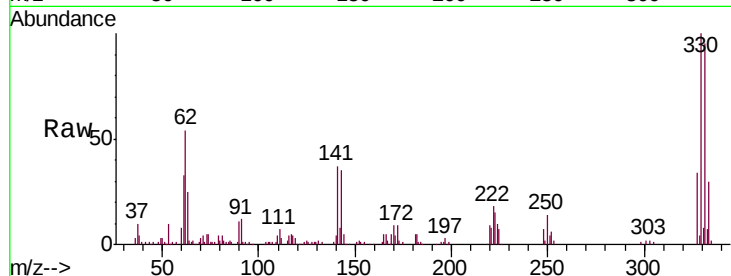




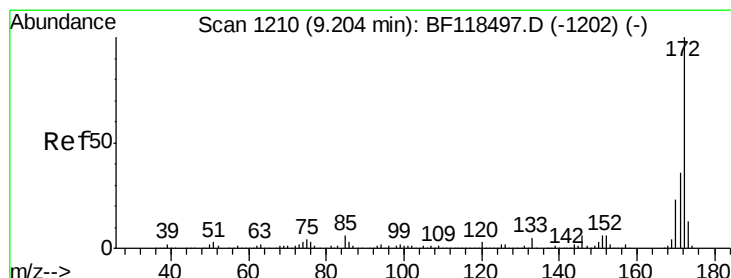
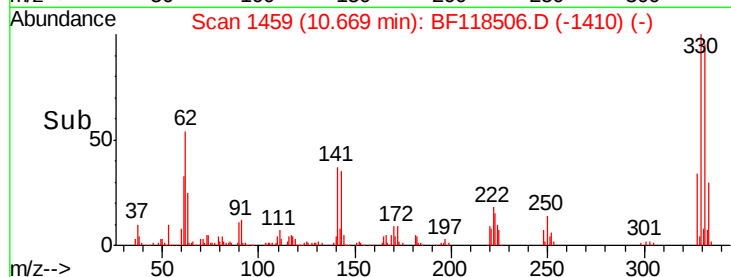
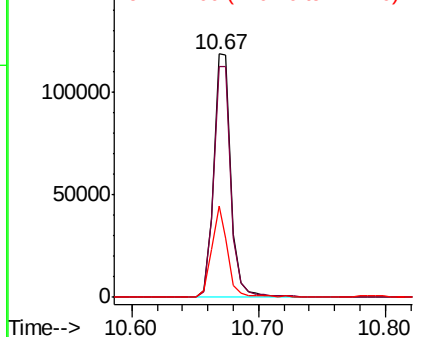
#42
 2,4,6-Tribromophenol
 Concen: 66.106 ng
 RT: 10.67 min Scan# 1459
 Delta R.T. -0.01 min
 Lab File: BF118506.D
 Acq: 8 Jan 2020 18:53

Instrument :
 BNA_F
 ClientSampleId :
 TP-1

Tgt Ion:330 Resp: 115273
 Ion Ratio Lower Upper
 330 100
 332 95.5 77.9 116.9
 141 35.1 28.6 43.0

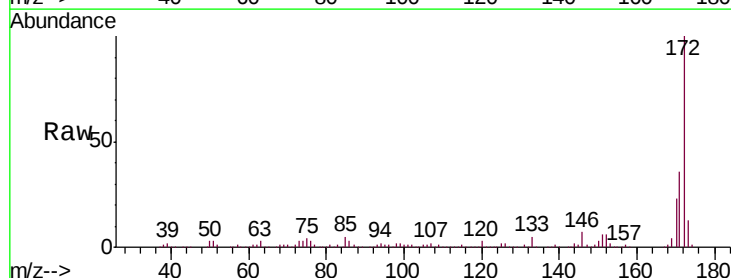


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

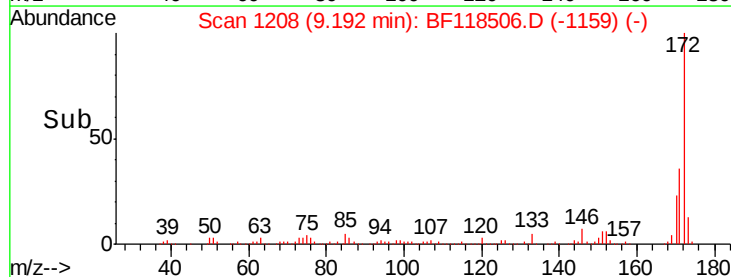
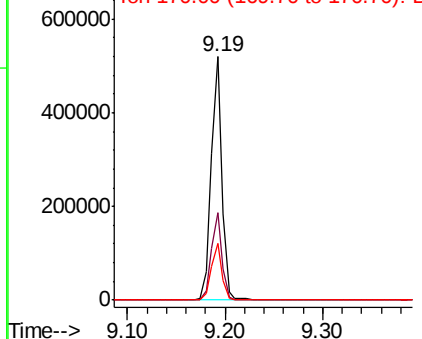


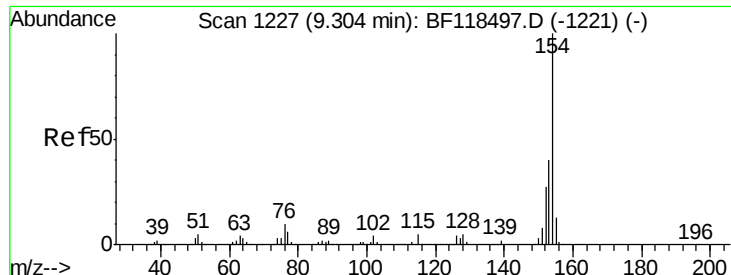
#45
 2-Fluorobiphenyl
 Concen: 38.276 ng
 RT: 9.19 min Scan# 1208
 Delta R.T. -0.01 min
 Lab File: BF118506.D
 Acq: 8 Jan 2020 18:53

Tgt Ion:172 Resp: 394386
 Ion Ratio Lower Upper
 172 100
 171 35.8 28.6 42.8
 170 23.3 18.6 27.8



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

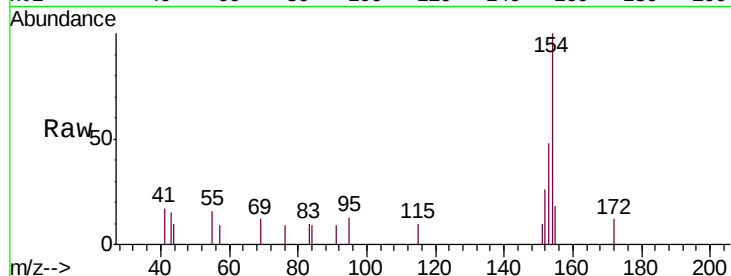




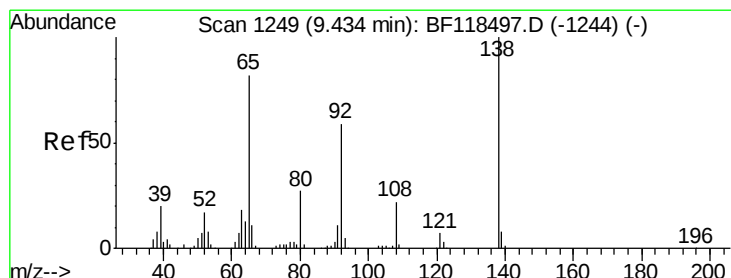
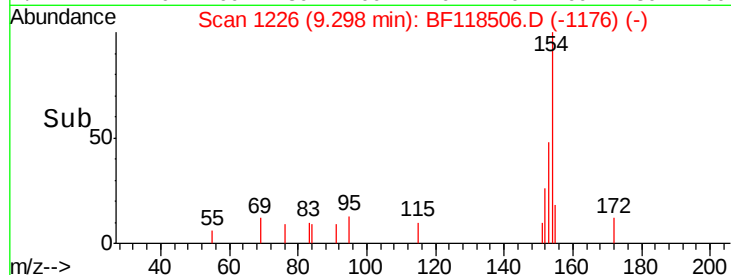
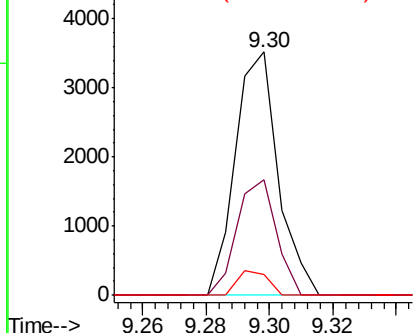
#46
1,1'-Biphenyl
Concen: 0.272 ng
RT: 9.30 min Scan# 1226
Delta R.T. -0.01 min
Lab File: BF118506.D
Acq: 8 Jan 2020 18:53

Instrument :
BNA_F
ClientSampleId :
TP-1

Tgt Ion: 154 Resp: 3282
Ion Ratio Lower Upper
154 100
153 47.6 20.2 60.2
76 8.8 0.0 30.4

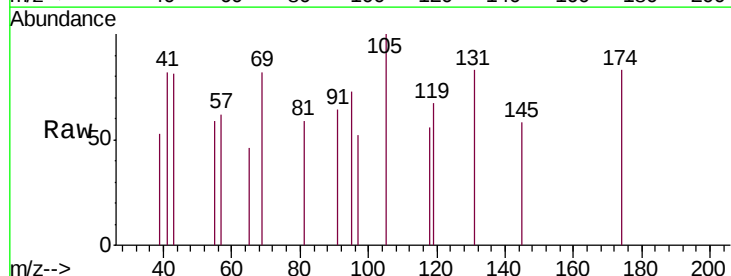


Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF1

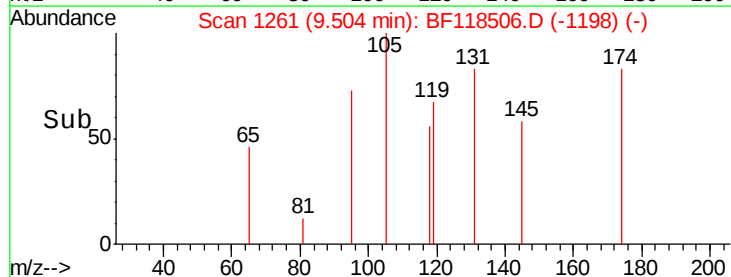
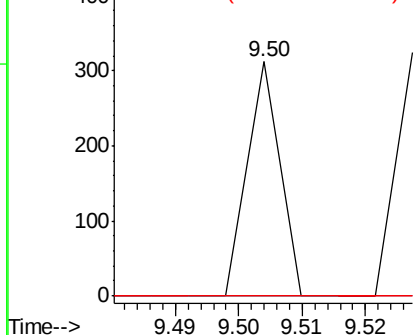


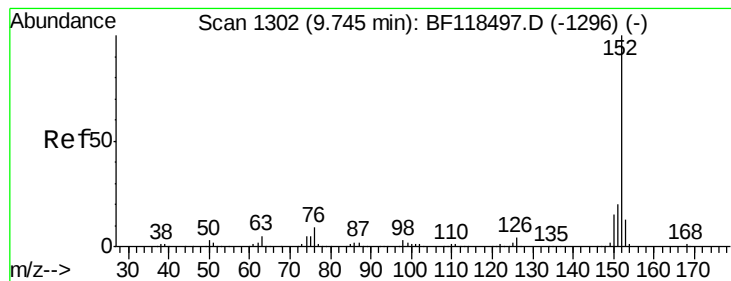
#48
2-Nitroaniline
Concen: 0.040 ng
RT: 9.50 min Scan# 1261
Delta R.T. 0.07 min
Lab File: BF118506.D
Acq: 8 Jan 2020 18:53

Tgt Ion: 65 Resp: 110
Ion Ratio Lower Upper
65 100
92 0.0 57.7 86.5#
138 0.0 97.2 145.8#



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): E





#49

Acenaphthylene

Concen: 0.712 ng

RT: 9.74 min Scan# 1301

Delta R.T. -0.01 min

Lab File: BF118506.D

Acq: 8 Jan 2020 18:53

Instrument :

BNA_F

ClientSampleId :

TP-1

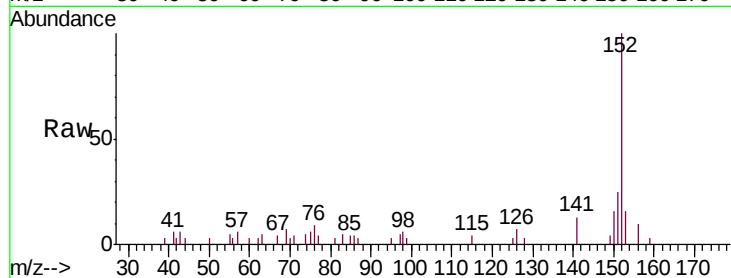
Tgt Ion:152 Resp: 10126

Ion Ratio Lower Upper

152 100

151 24.5 16.3 24.5#

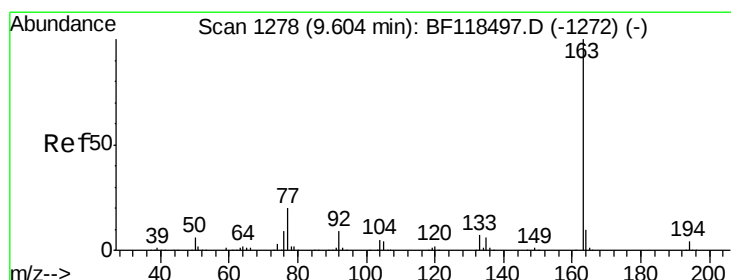
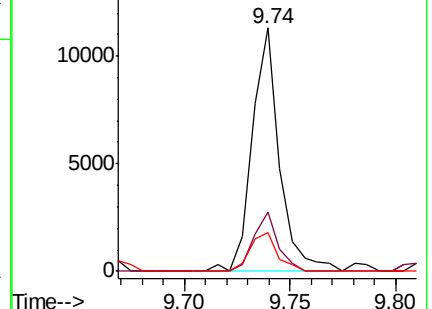
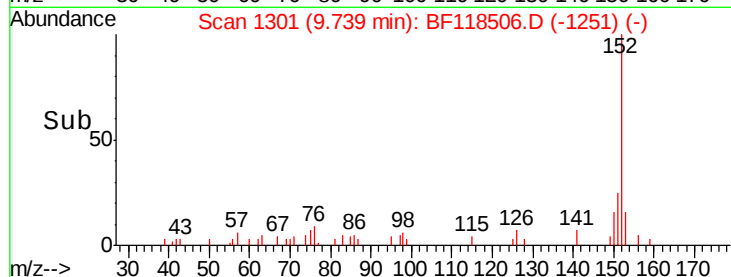
153 16.0 10.6 16.0#



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: 2.873 ng

RT: 9.59 min Scan# 1275

Delta R.T. -0.02 min

Lab File: BF118506.D

Acq: 8 Jan 2020 18:53

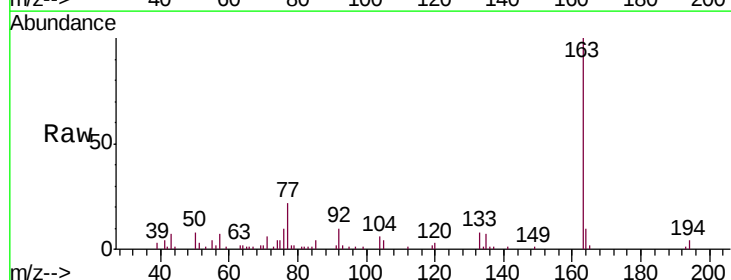
Tgt Ion:163 Resp: 32587

Ion Ratio Lower Upper

163 100

194 3.8 3.0 4.6

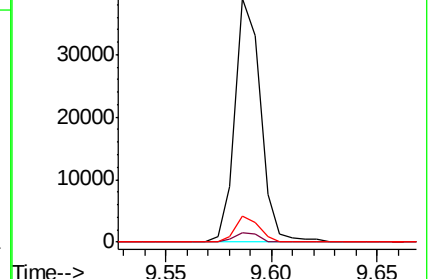
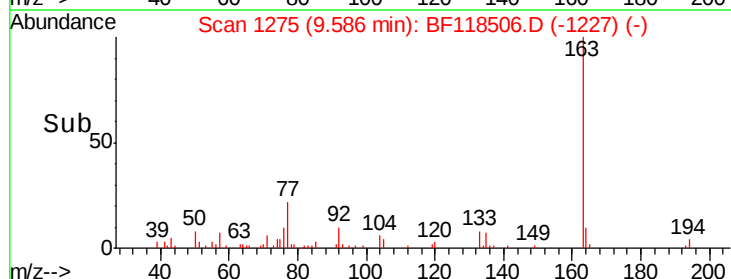
164 10.5 8.1 12.1

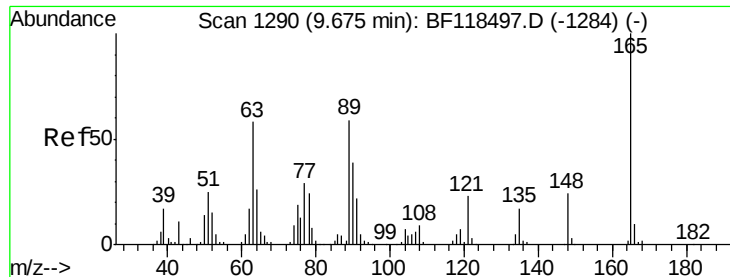


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#51

2,6-Dinitrotoluene

Concen: 8.112 ng

RT: 9.87 min Scan# 1324

Delta R.T. 0.20 min

Lab File: BF118506.D

Acq: 8 Jan 2020 18:53

Instrument :

BNA_F

ClientSampleId :

TP-1

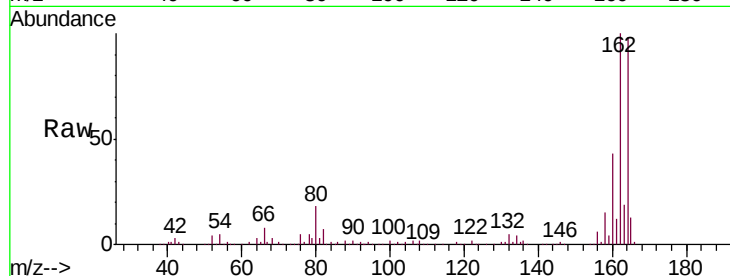
Tgt Ion:165 Resp: 19814

Ion Ratio Lower Upper

165 100

63 0.0 46.6 70.0#

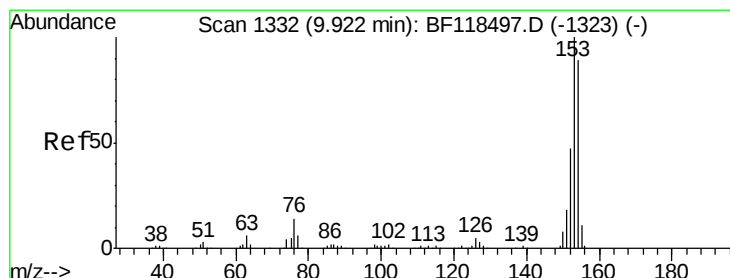
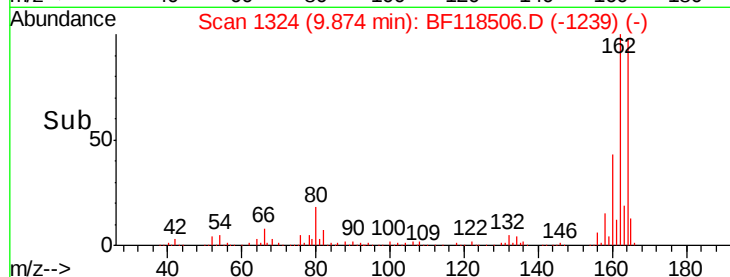
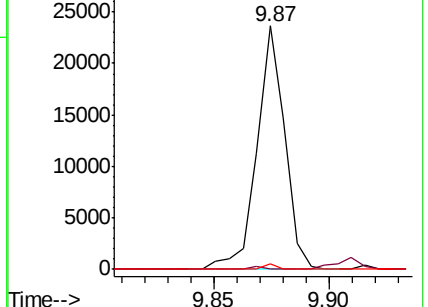
89 2.3 47.5 71.3#



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: 0.821 ng

RT: 9.91 min Scan# 1330

Delta R.T. -0.01 min

Lab File: BF118506.D

Acq: 8 Jan 2020 18:53

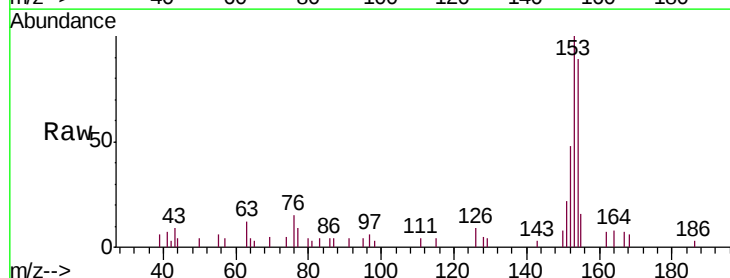
Tgt Ion:154 Resp: 7133

Ion Ratio Lower Upper

154 100

153 112.6 89.7 134.5

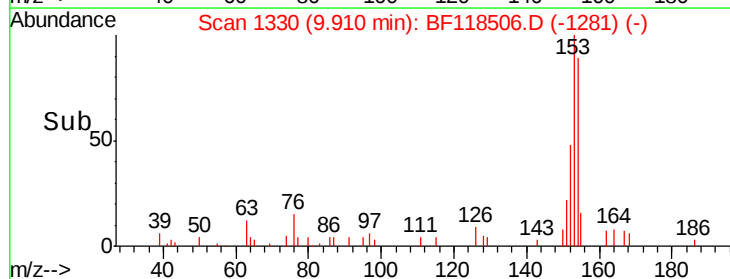
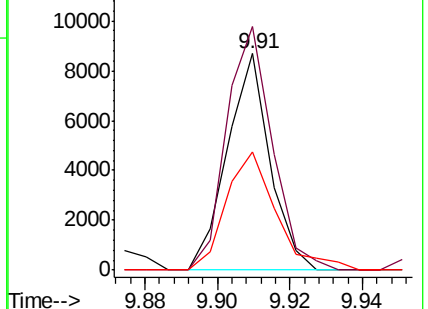
152 54.4 41.9 62.9

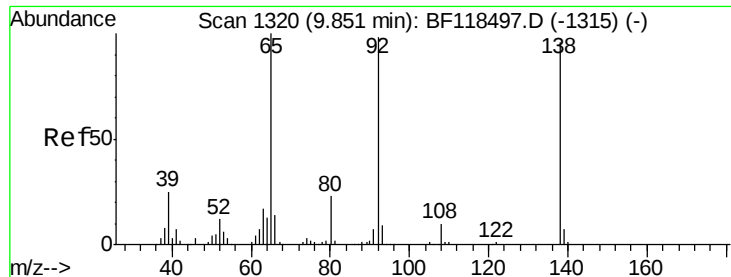


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

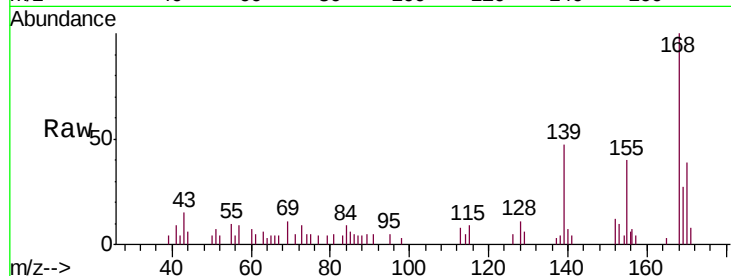




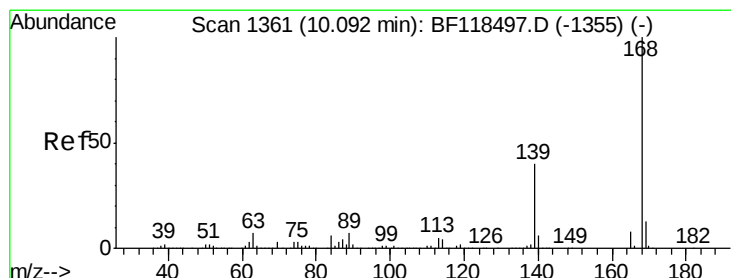
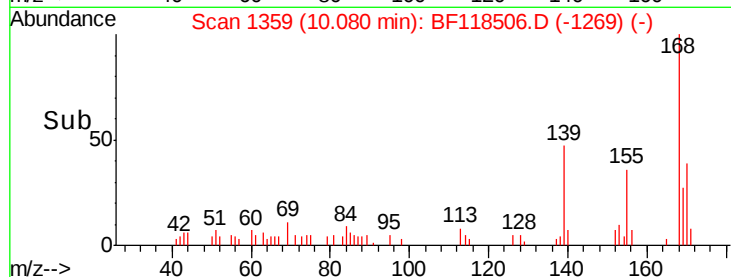
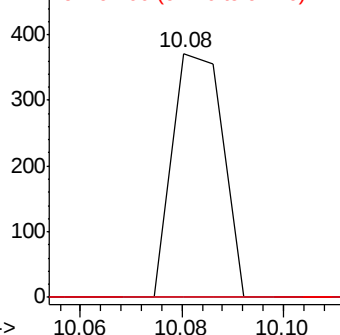
#53
3-Nitroaniline
Concen: 0.090 ng
RT: 10.08 min Scan# 1359
Delta R.T. 0.23 min
Lab File: BF118506.D
Acq: 8 Jan 2020 18:53

Instrument :
BNA_F
ClientSampleId :
TP-1

Tgt Ion:138 Resp: 257
Ion Ratio Lower Upper
138 100
108 0.0 8.1 12.1#
92 0.0 81.6 122.4#

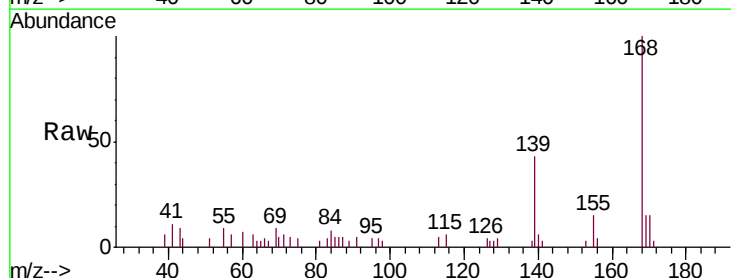


Abundance Ion 138.00 (137.70 to 138.70): E
Ion 108.00 (107.70 to 108.70): E
Ion 92.00 (91.70 to 92.70): BF1

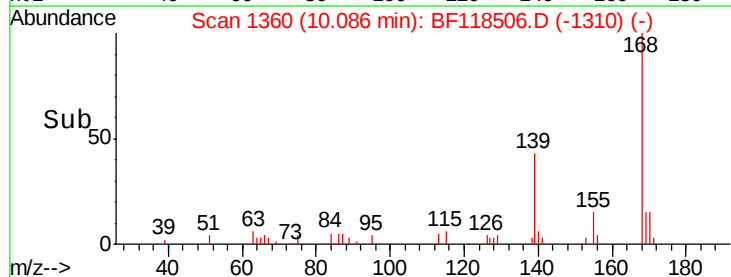
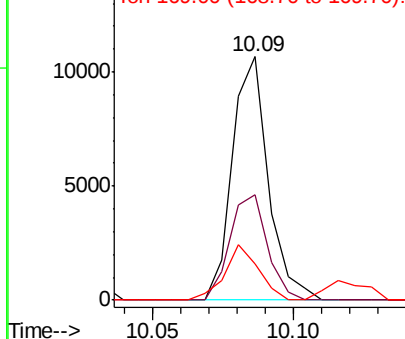


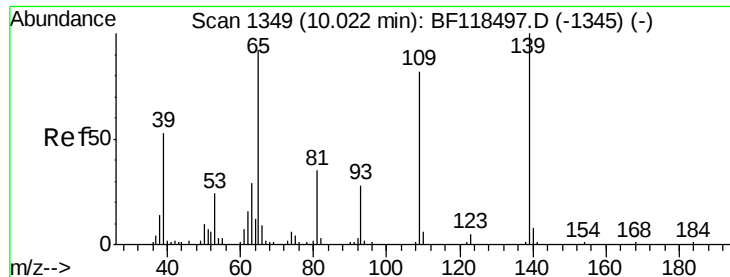
#55
Dibenzofuran
Concen: 0.722 ng
RT: 10.09 min Scan# 1360
Delta R.T. -0.01 min
Lab File: BF118506.D
Acq: 8 Jan 2020 18:53

Tgt Ion:168 Resp: 9423
Ion Ratio Lower Upper
168 100
139 43.4 32.5 48.7
169 14.7 10.6 16.0



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

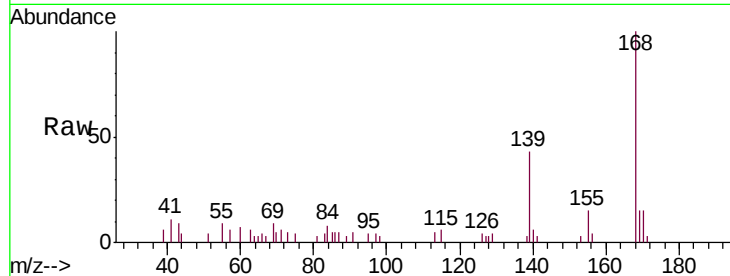




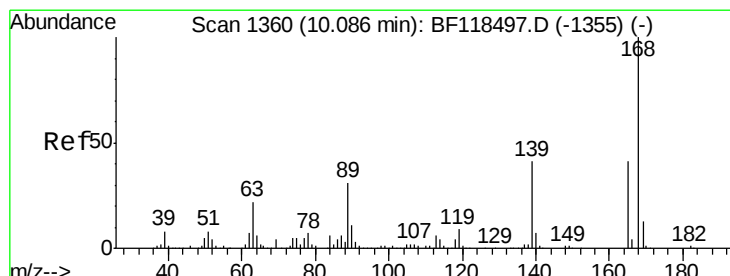
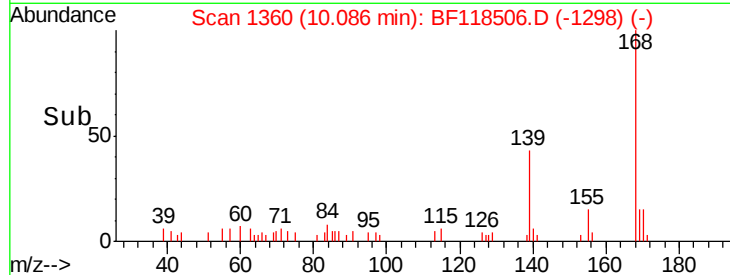
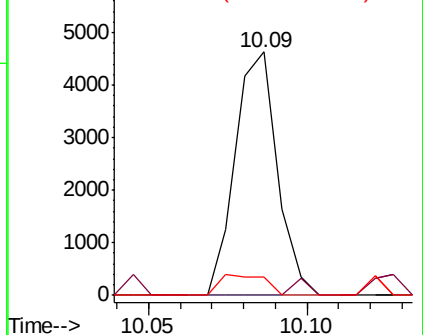
#56
 4-Nitrophenol
 Concen: 3.062 ng
 RT: 10.09 min Scan# 1360
 Delta R.T. 0.06 min
 Lab File: BF118506.D
 Acq: 8 Jan 2020 18:53

Instrument :
 BNA_F
 ClientSampleId :
 TP-1

Tgt Ion:139 Resp: 4254
 Ion Ratio Lower Upper
 139 100
 109 0.0 62.2 102.2#
 65 7.3 72.8 112.8#



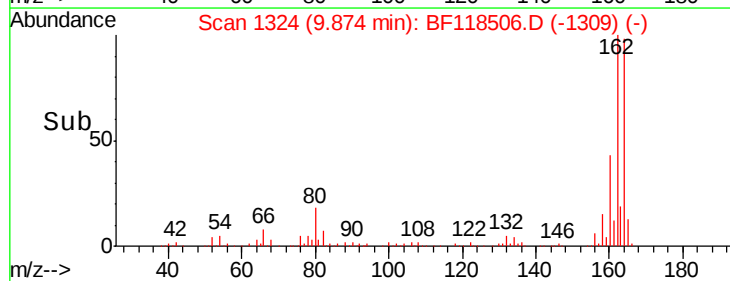
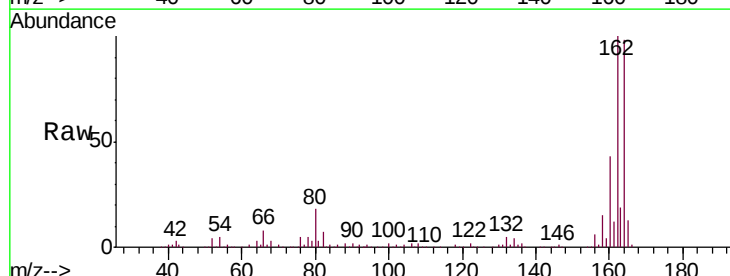
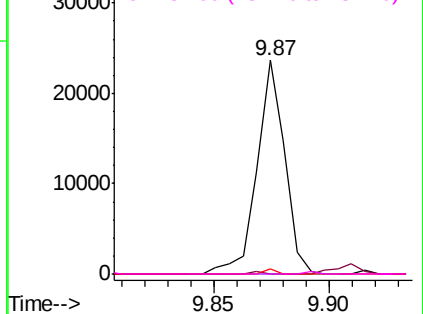
Abundance Ion 139.00 (138.70 to 139.70): E
 Ion 109.00 (108.70 to 109.70): E
 Ion 65.00 (64.70 to 65.70): BF1

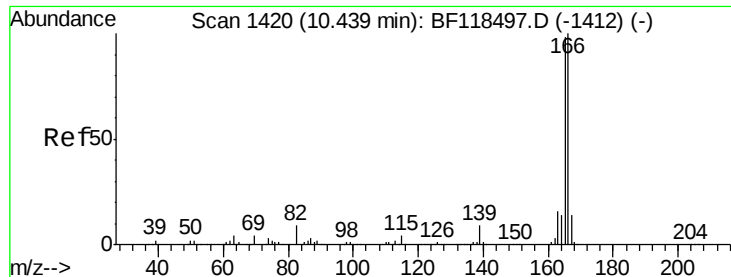


#57
 2,4-Dinitrotoluene
 Concen: 6.058 ng
 RT: 9.87 min Scan# 1324
 Delta R.T. -0.21 min
 Lab File: BF118506.D
 Acq: 8 Jan 2020 18:53

Tgt Ion:165 Resp: 19814
 Ion Ratio Lower Upper
 165 100
 63 0.0 44.1 66.1#
 89 2.3 60.4 90.6#
 182 0.0 2.0 3.0#

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: 1.091 ng

RT: 10.43 min Scan# 1418

Delta R.T. -0.01 min

Lab File: BF118506.D

Acq: 8 Jan 2020 18:53

Instrument :

BNA_F

ClientSampleId :

TP-1

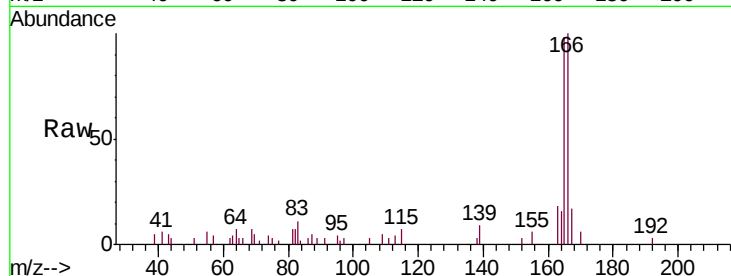
Tgt Ion:166 Resp: 11446

Ion Ratio Lower Upper

166 100

165 98.1 78.6 117.8

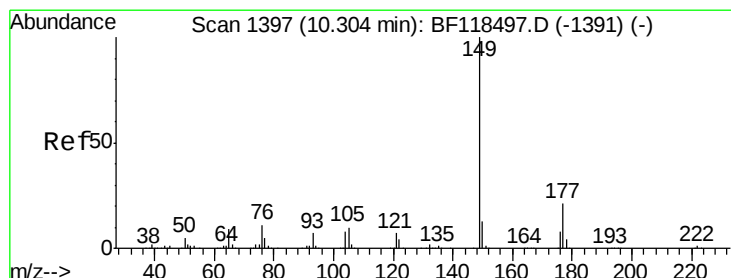
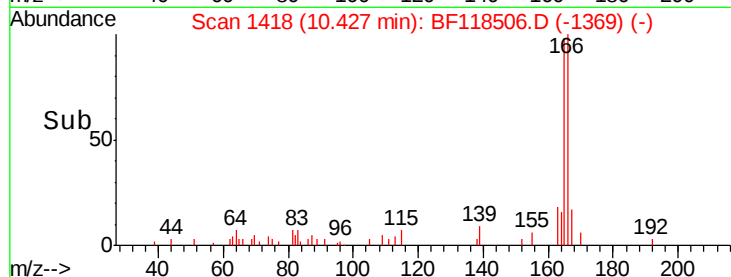
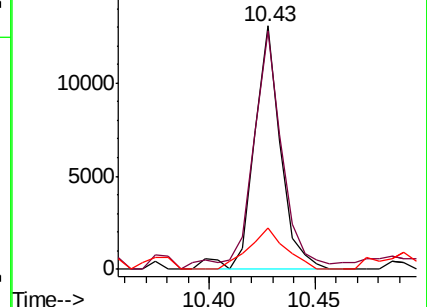
167 16.8 10.8 16.2#



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#60

Diethylphthalate

Concen: 0.031 ng

RT: 10.29 min Scan# 1395

Delta R.T. -0.01 min

Lab File: BF118506.D

Acq: 8 Jan 2020 18:53

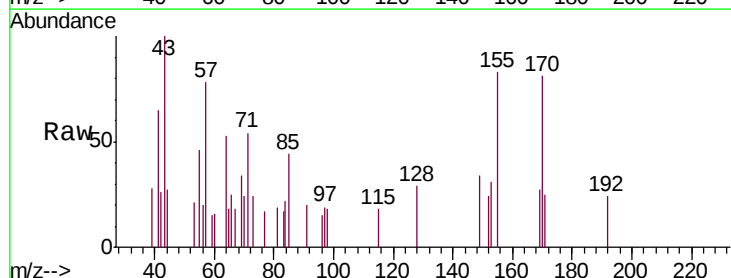
Tgt Ion:149 Resp: 362

Ion Ratio Lower Upper

149 100

177 0.0 16.5 24.7#

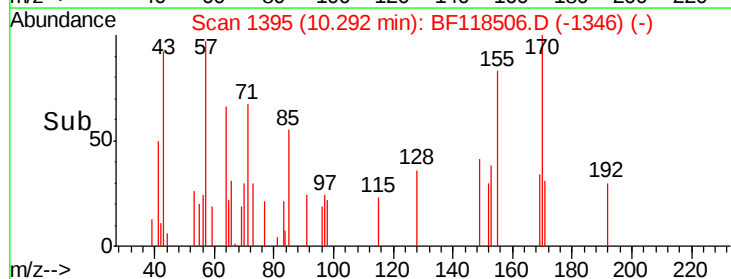
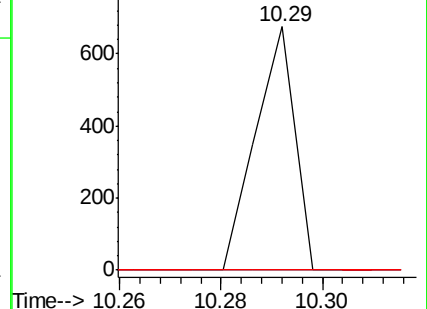
150 0.0 10.2 15.2#

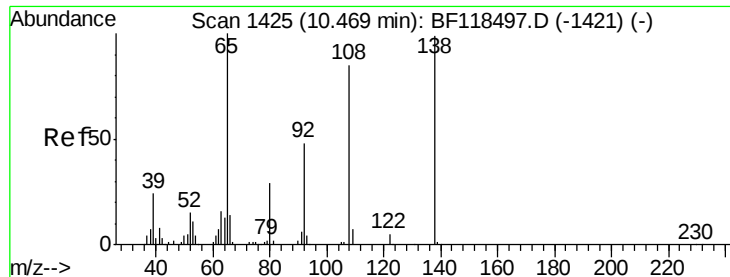


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 177.00 (176.70 to 177.70): E

Ion 150.00 (149.70 to 150.70): E





#62

4-Nitroaniline

Concen: 0.041 ng

RT: 10.43 min Scan# 1418

Delta R.T. -0.04 min

Lab File: BF118506.D

Acq: 8 Jan 2020 18:53

Instrument :

BNA_F

ClientSampleId :

TP-1

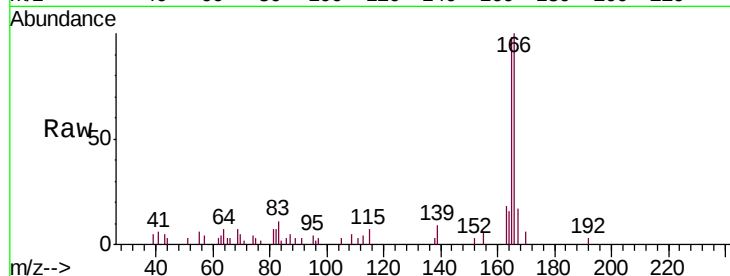
Tgt Ion:138 Resp: 116

Ion Ratio Lower Upper

138 100

92 0.0 27.9 67.9#

108 0.0 64.7 104.7#



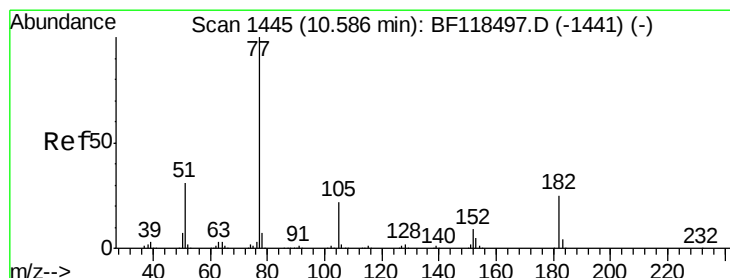
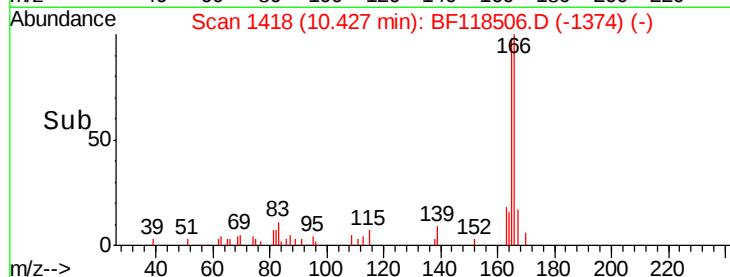
Abundance Ion 138.00 (137.70 to 138.70): E

Ion 92.00 (91.70 to 92.70): BF1

Ion 108.00 (107.70 to 108.70): E

10.43

Time-->



#63

Azobenzene

Concen: 0.124 ng

RT: 10.59 min Scan# 1446

Delta R.T. 0.01 min

Lab File: BF118506.D

Acq: 8 Jan 2020 18:53

Tgt Ion: 77 Resp: 1215

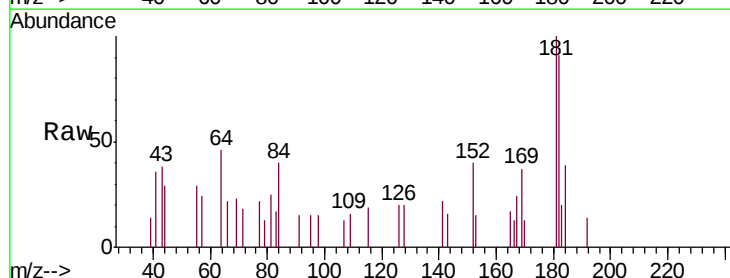
Ion Ratio Lower Upper

77 100

182 407.9 5.2 45.2#

105 0.0 1.7 41.7#

51 0.0 11.2 51.2#



Abundance Ion 77.00 (76.70 to 77.70): BF1

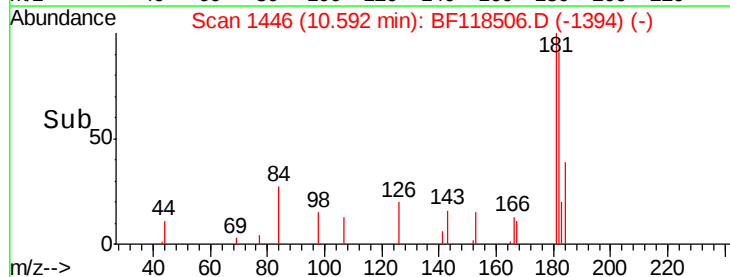
Ion 182.00 (181.70 to 182.70): E

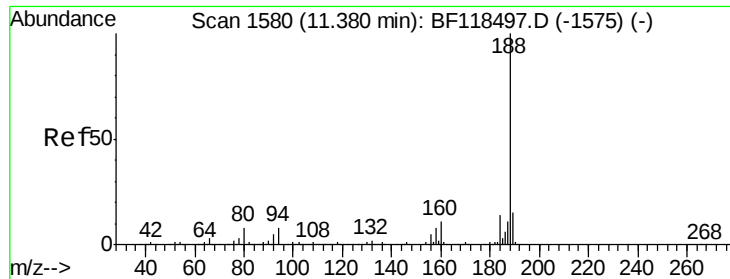
Ion 105.00 (104.70 to 105.70): E

Ion 51.00 (50.70 to 51.70): BF1

10.59

Time-->

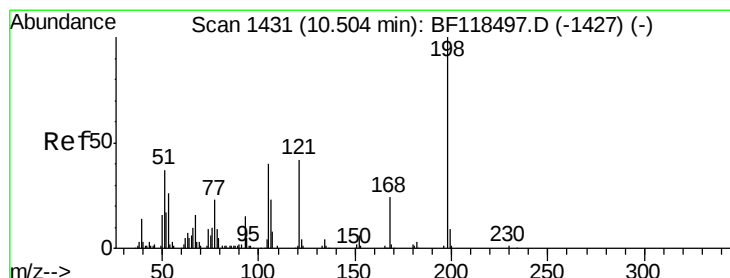
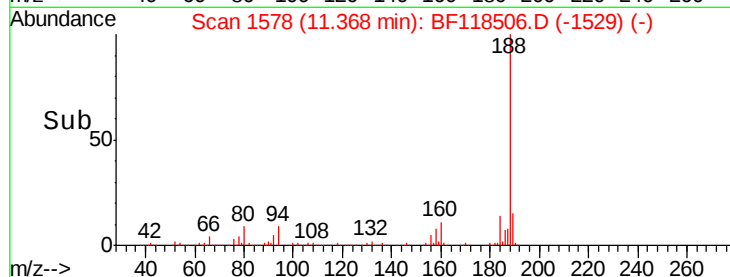
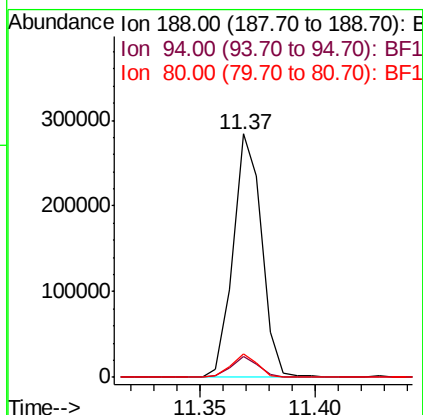
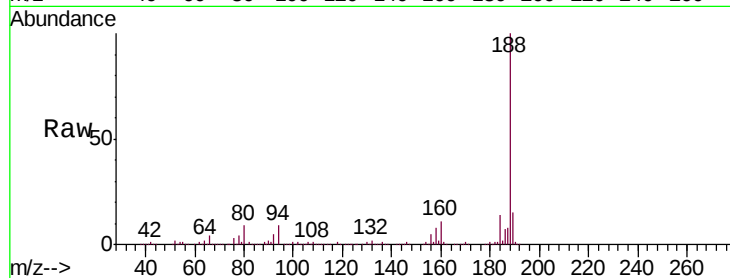




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.37 min Scan# 1578
Delta R.T. -0.01 min
Lab File: BF118506.D
Acq: 8 Jan 2020 18:53

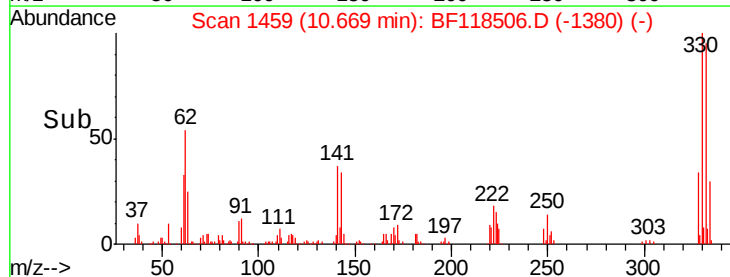
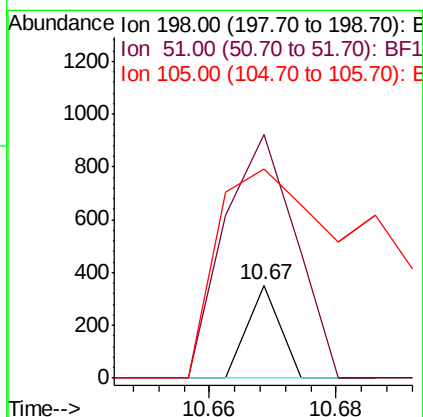
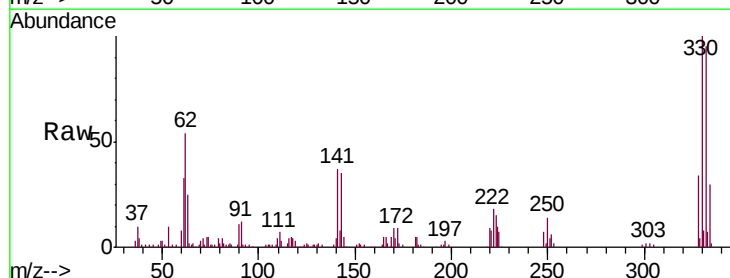
Instrument :
BNA_F
ClientSampleId :
TP-1

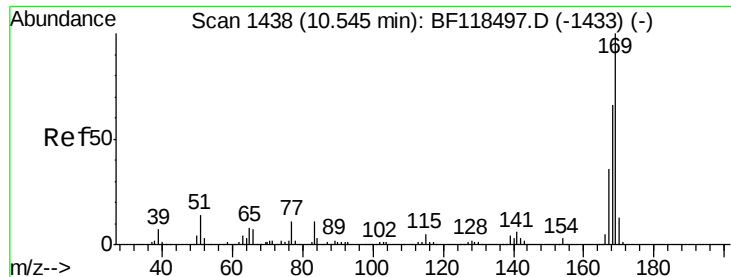
Tgt Ion:188 Resp: 244899
Ion Ratio Lower Upper
188 100
94 8.7 6.2 9.4
80 9.4 6.6 10.0



#65
4,6-Dinitro-2-methylphenol
Concen: 0.096 ng
RT: 10.67 min Scan# 1459
Delta R.T. 0.16 min
Lab File: BF118506.D
Acq: 8 Jan 2020 18:53

Tgt Ion:198 Resp: 124
Ion Ratio Lower Upper
198 100
51 261.9 17.8 57.8#
105 225.3 20.1 60.1#

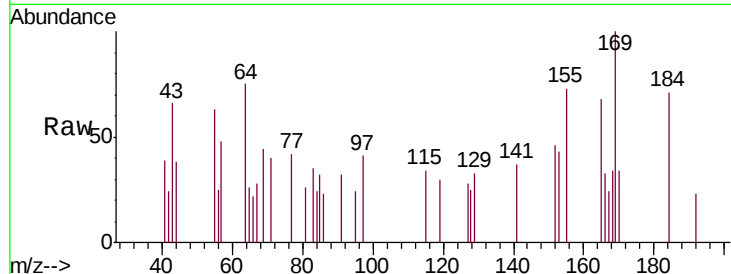




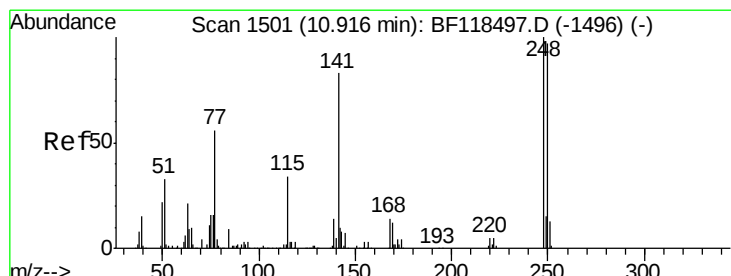
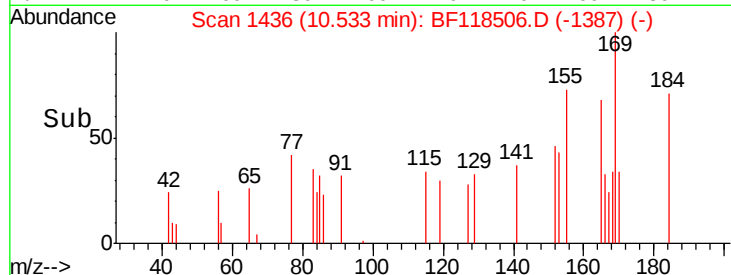
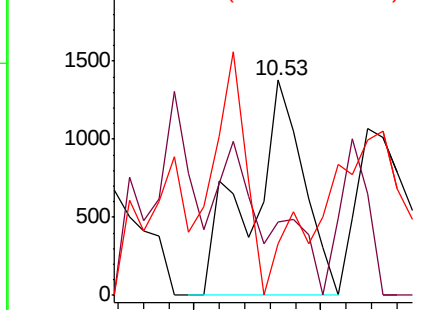
#66
 n-Nitrosodiphenylamine
 Concen: 0.253 ng
 RT: 10.53 min Scan# 1436
 Delta R.T. -0.01 min
 Lab File: BF118506.D
 Acq: 8 Jan 2020 18:53

Instrument :
 BNA_F
 ClientSampled :
 TP-1

Tgt Ion:169 Resp: 2014
 Ion Ratio Lower Upper
 169 100
 168 34.2 53.4 80.2#
 167 23.8 28.9 43.3#

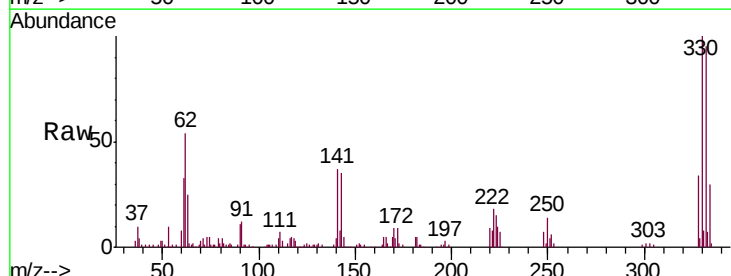


Abundance Ion 169.00 (168.70 to 169.70): E
 Ion 168.00 (167.70 to 168.70): E
 Ion 167.00 (166.70 to 167.70): E

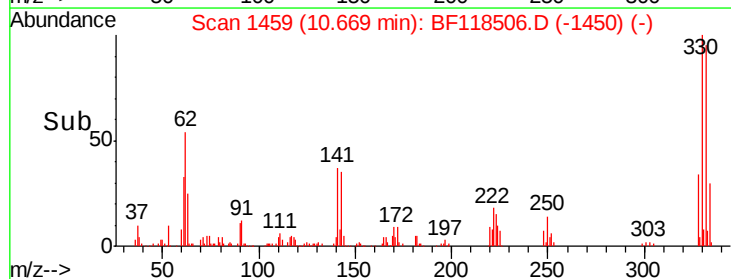
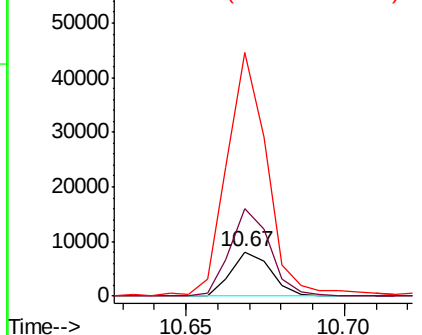


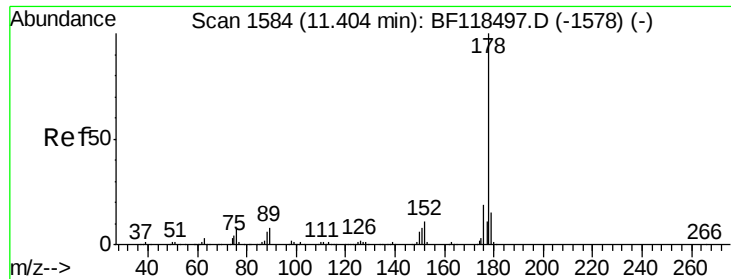
#67
 4-Bromophenyl-phenylether
 Concen: 2.451 ng
 RT: 10.67 min Scan# 1459
 Delta R.T. -0.25 min
 Lab File: BF118506.D
 Acq: 8 Jan 2020 18:53

Tgt Ion:248 Resp: 7031
 Ion Ratio Lower Upper
 248 100
 250 198.8 77.4 116.0#
 141 552.1 66.2 99.4#



Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E





#71

Phenanthrene

Concen: 7.265 ng

RT: 11.39 min Scan# 1582

Delta R.T. -0.01 min

Lab File: BF118506.D

Acq: 8 Jan 2020 18:53

Instrument :

BNA_F

ClientSampled :

TP-1

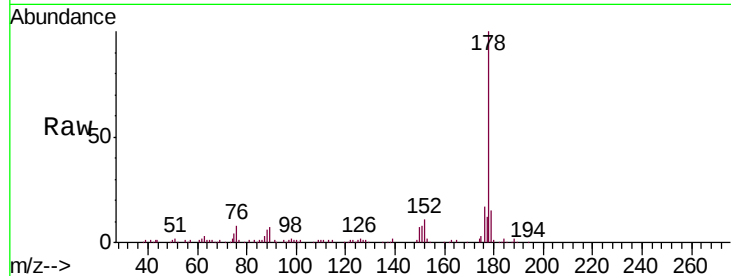
Tgt Ion:178 Resp: 99668

Ion Ratio Lower Upper

178 100

176 17.0 15.2 22.8

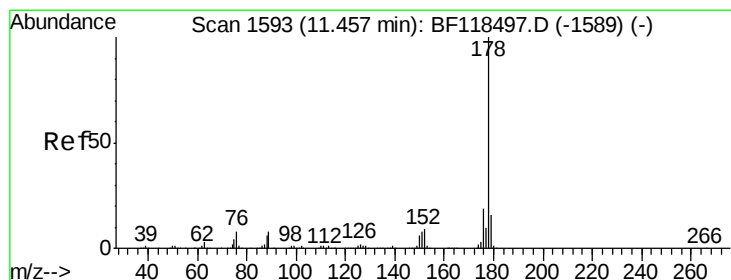
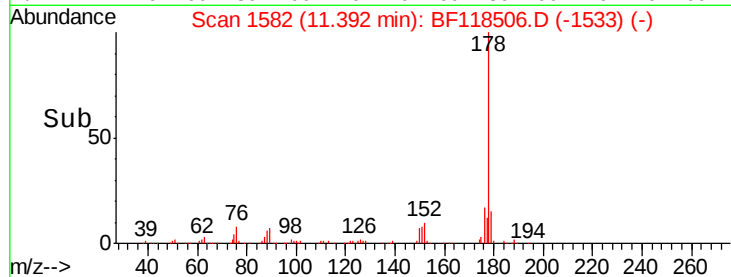
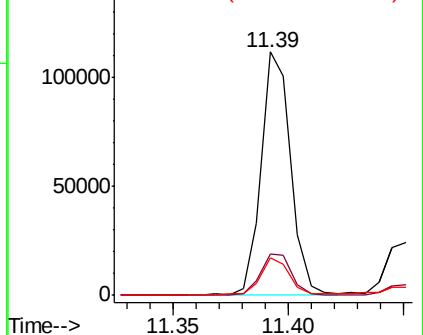
179 15.3 12.3 18.5



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: 1.657 ng

RT: 11.45 min Scan# 1592

Delta R.T. -0.01 min

Lab File: BF118506.D

Acq: 8 Jan 2020 18:53

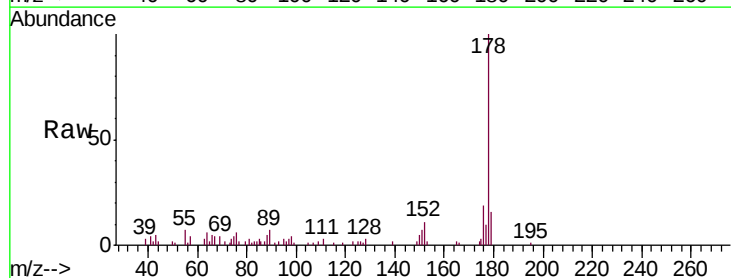
Tgt Ion:178 Resp: 22618

Ion Ratio Lower Upper

178 100

176 19.3 15.0 22.4

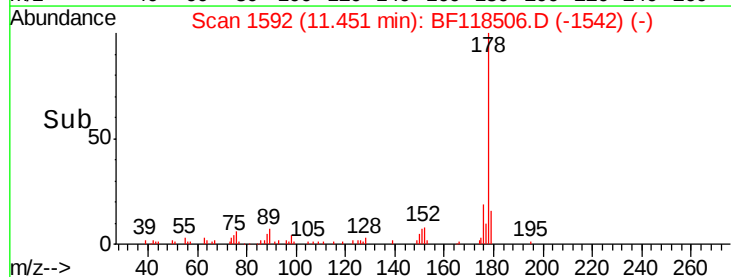
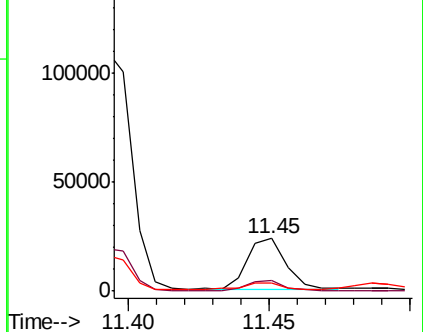
179 16.2 12.6 19.0

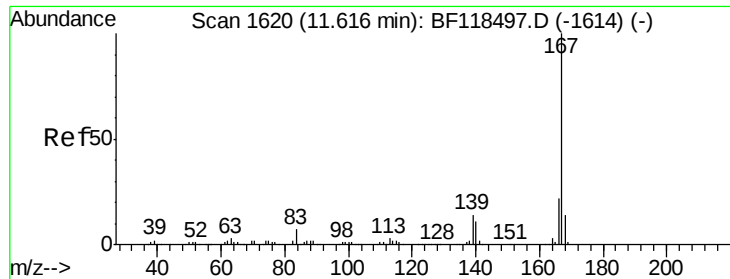


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#73

Carbazole

Concen: 0.607 ng

RT: 11.61 min Scan# 1619

Delta R.T. -0.01 min

Lab File: BF118506.D

Acq: 8 Jan 2020 18:53

Instrument :

BNA_F

ClientSampleId :

TP-1

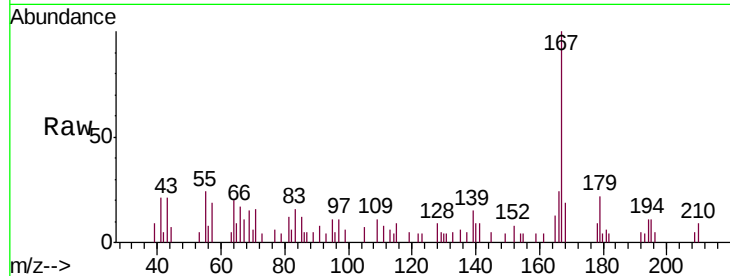
Tgt Ion:167 Resp: 7182

Ion Ratio Lower Upper

167 100

166 23.9 17.4 26.2

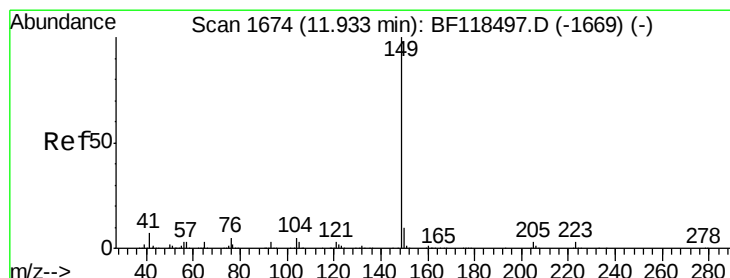
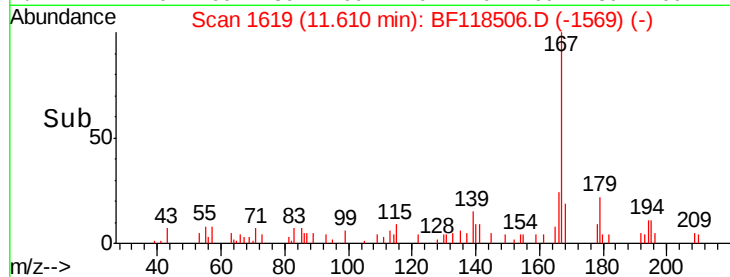
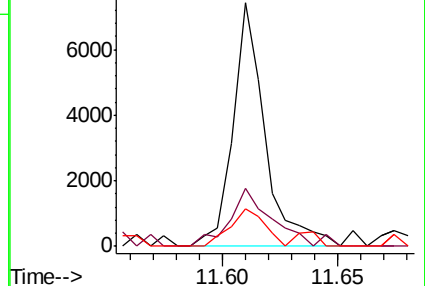
139 15.3 10.9 16.3



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: 0.203 ng

RT: 11.93 min Scan# 1673

Delta R.T. -0.01 min

Lab File: BF118506.D

Acq: 8 Jan 2020 18:53

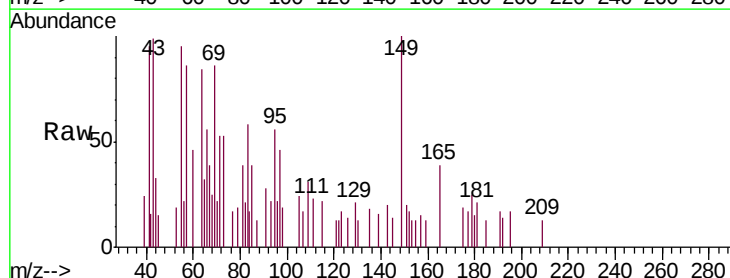
Tgt Ion:149 Resp: 3195

Ion Ratio Lower Upper

149 100

150 0.0 7.8 11.8#

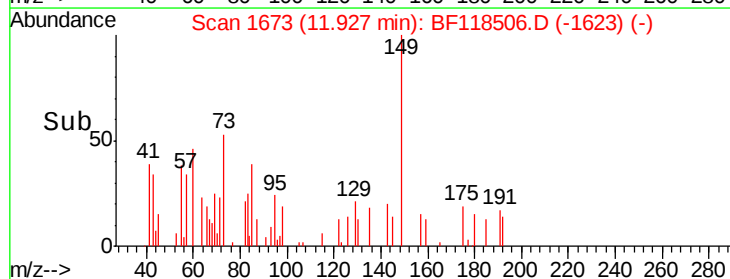
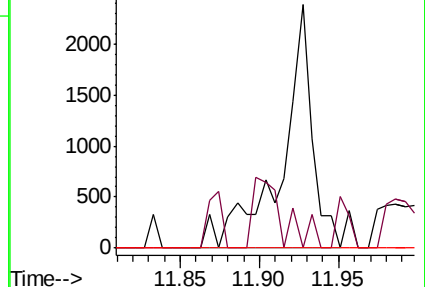
104 0.0 4.2 6.4#

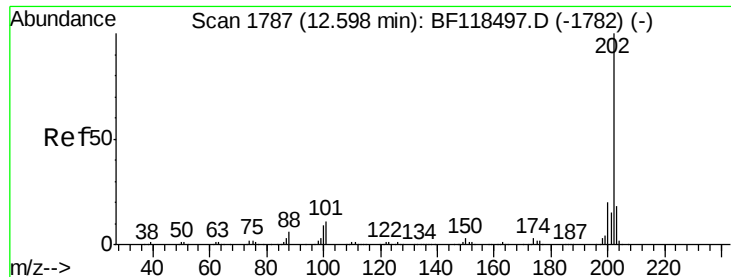


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E





#75

Fluoranthene

Concen: 9.224 ng

RT: 12.59 min Scan# 1786

Delta R.T. -0.01 min

Lab File: BF118506.D

Acq: 8 Jan 2020 18:53

Instrument :

BNA_F

ClientSampleId :

TP-1

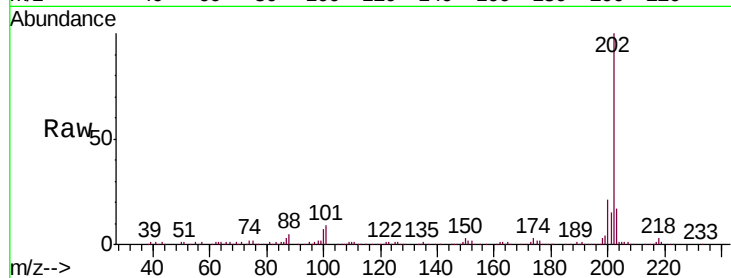
Tgt Ion: 202 Resp: 128613

Ion Ratio Lower Upper

202 100

101 9.0 0.0 31.4

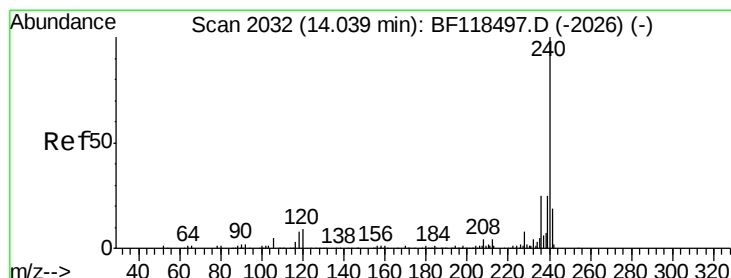
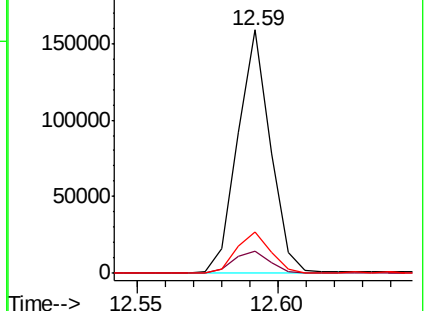
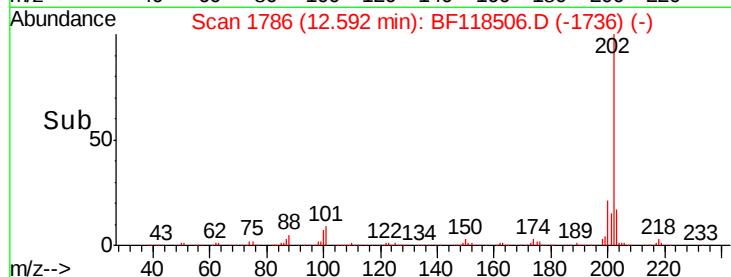
203 17.2 0.0 38.1



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: 14.03 min Scan# 2030

Delta R.T. -0.01 min

Lab File: BF118506.D

Acq: 8 Jan 2020 18:53

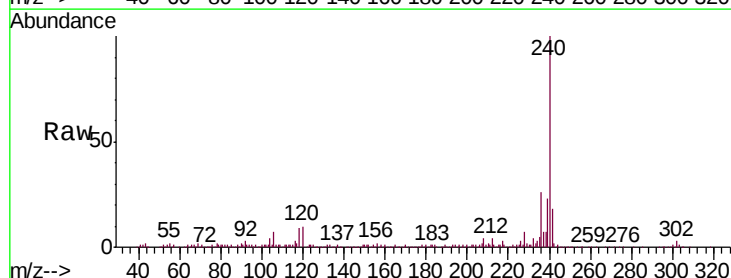
Tgt Ion: 240 Resp: 163019

Ion Ratio Lower Upper

240 100

120 9.8 7.0 10.6

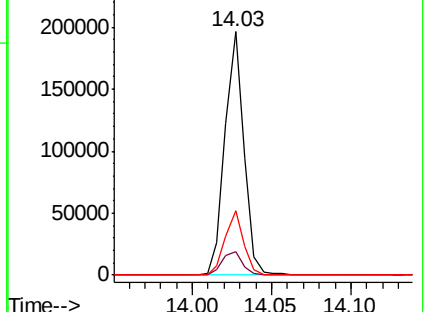
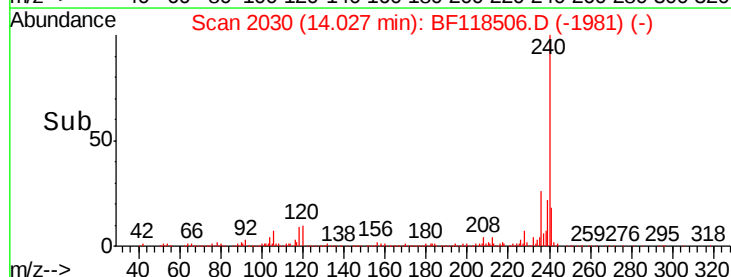
236 26.3 20.1 30.1

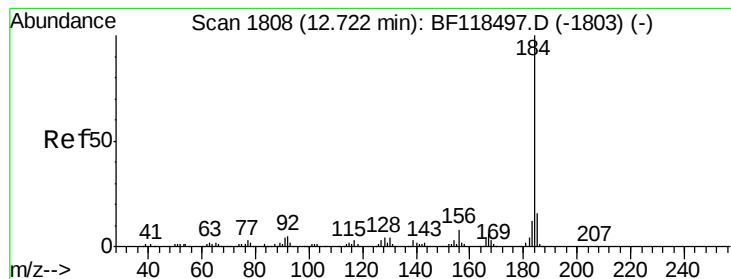


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Benzidine

Concen: Below Cal

RT: 12.96 min Scan# 1848

Delta R.T. 0.24 min

Lab File: BF118506.D

Acq: 8 Jan 2020 18:53

Instrument :

BNA_F

ClientSampled :

TP-1

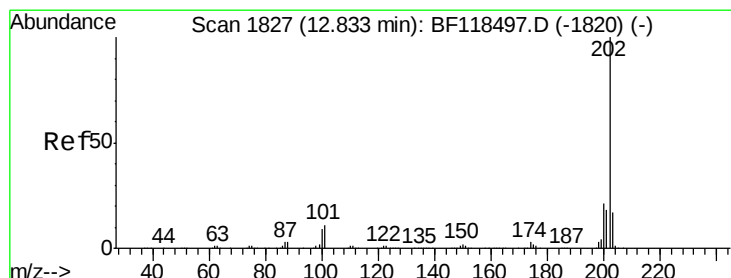
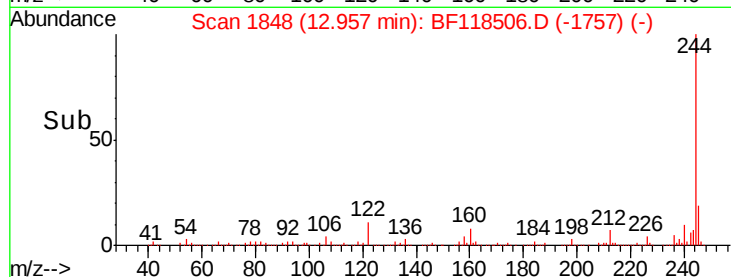
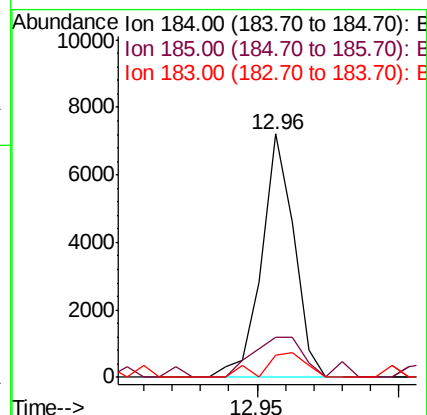
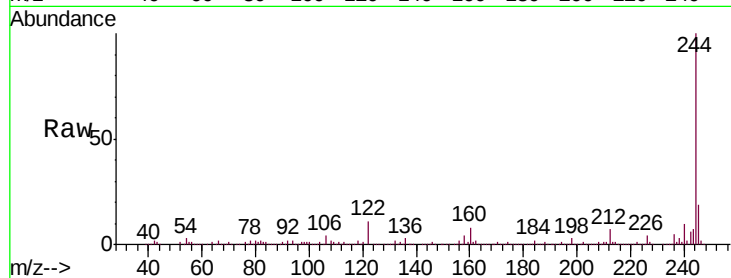
Tgt Ion:184 Resp: 5738

Ion Ratio Lower Upper

184 100

185 16.4 12.6 18.8

183 9.0 9.3 13.9#



#78

Pyrene

Concen: 8.503 ng

RT: 12.82 min Scan# 1825

Delta R.T. -0.01 min

Lab File: BF118506.D

Acq: 8 Jan 2020 18:53

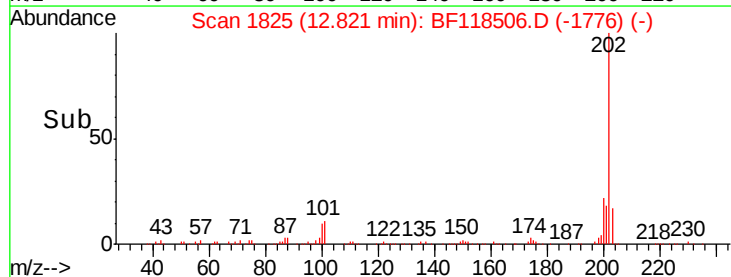
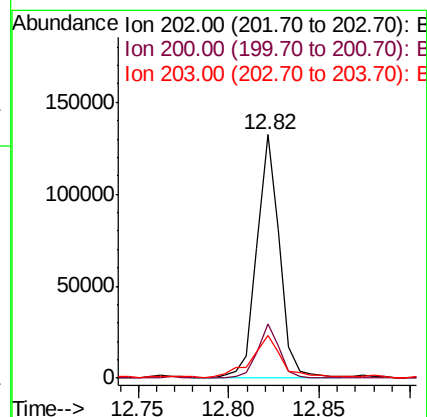
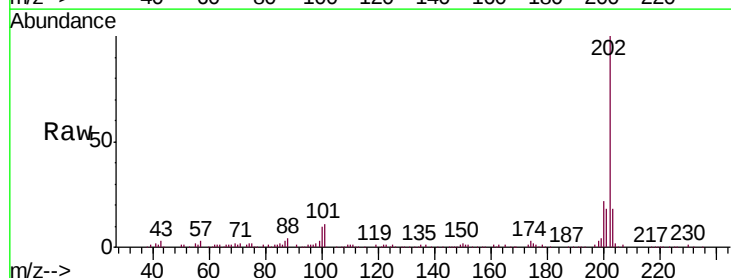
Tgt Ion:202 Resp: 114048

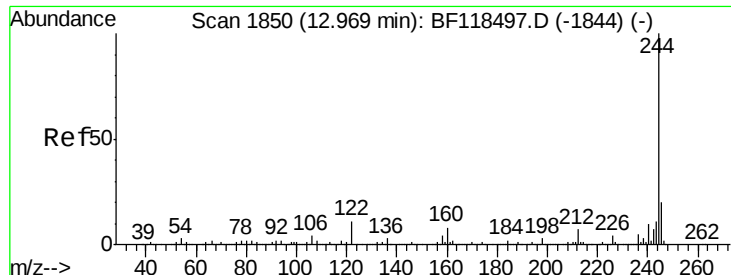
Ion Ratio Lower Upper

202 100

200 22.1 16.9 25.3

203 17.5 13.9 20.9

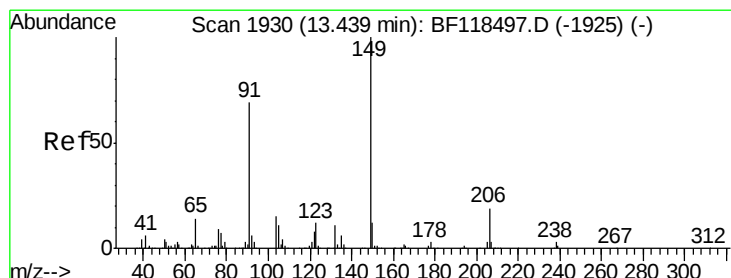
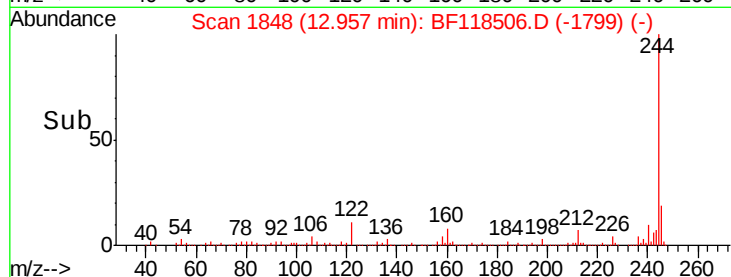
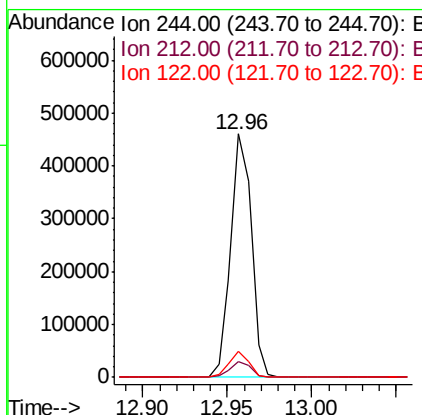
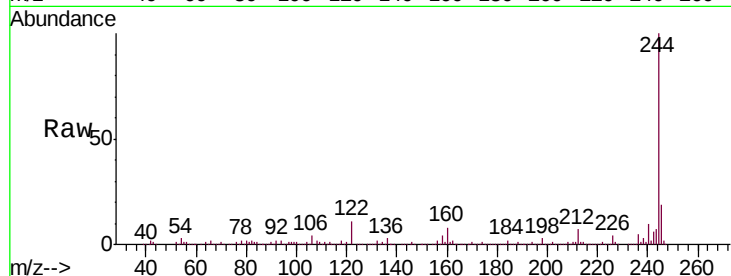




#79
 Terphenyl-d14
 Concen: 38.278 ng
 RT: 12.96 min Scan# 1848
 Delta R.T. -0.01 min
 Lab File: BF118506.D
 Acq: 8 Jan 2020 18:53

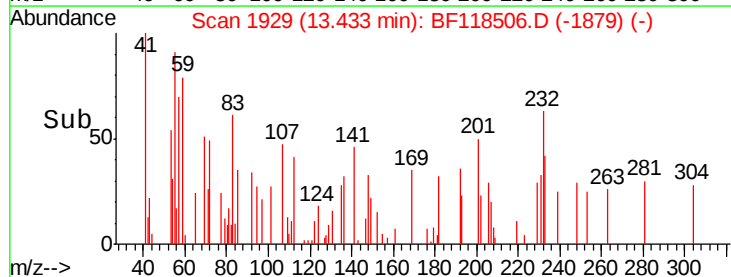
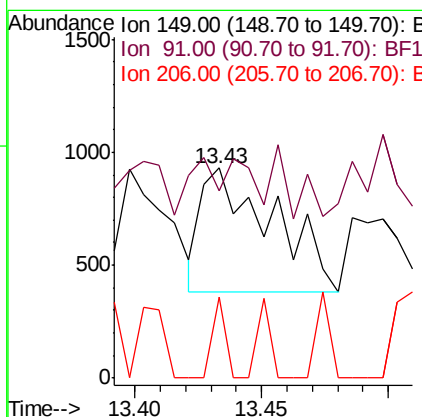
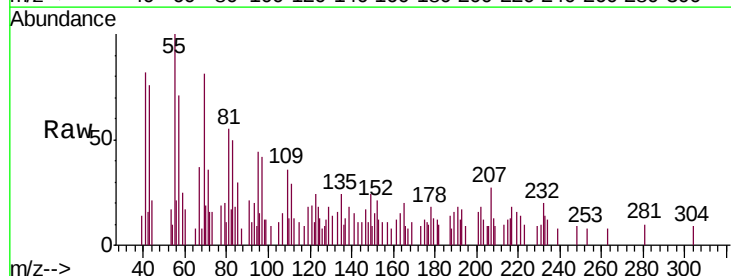
Instrument :
 BNA_F
 ClientSampleId :
 TP-1

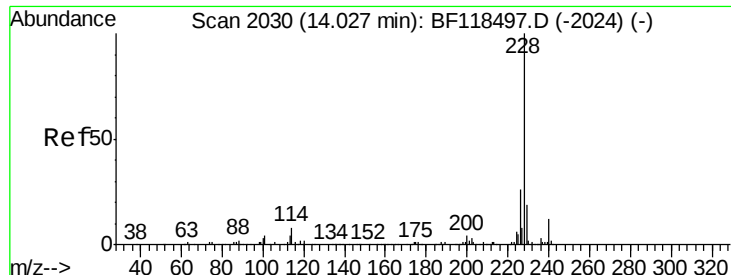
Tgt Ion: 244 Resp: 393770
 Ion Ratio Lower Upper
 244 100
 212 6.5 5.6 8.4
 122 10.6 9.0 13.6



#80
 Butylbenzylphthalate
 Concen: 0.174 ng
 RT: 13.43 min Scan# 1929
 Delta R.T. -0.01 min
 Lab File: BF118506.D
 Acq: 8 Jan 2020 18:53

Tgt Ion: 149 Resp: 1068
 Ion Ratio Lower Upper
 149 100
 91 89.0 55.2 82.8#
 206 38.5 15.1 22.7#

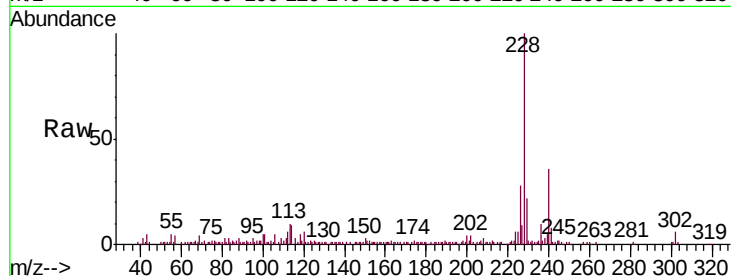




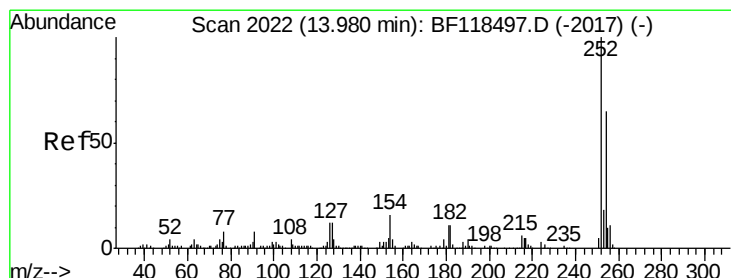
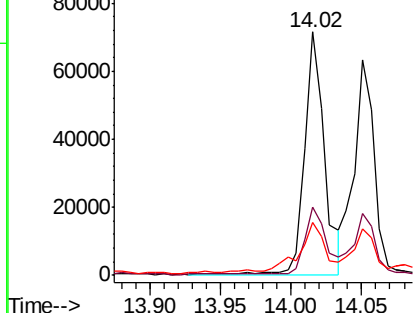
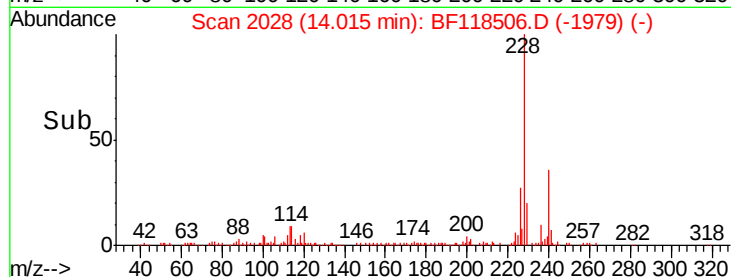
#81
Benzo(a)anthracene
Concen: 6.234 ng
RT: 14.02 min Scan# 2028
Delta R.T. -0.01 min
Lab File: BF118506.D
Acq: 8 Jan 2020 18:53

Instrument :
BNA_F
ClientSampled :
TP-1

Tgt Ion:228 Resp: 71135
Ion Ratio Lower Upper
228 100
226 28.3 20.7 31.1
229 21.6 15.4 23.2

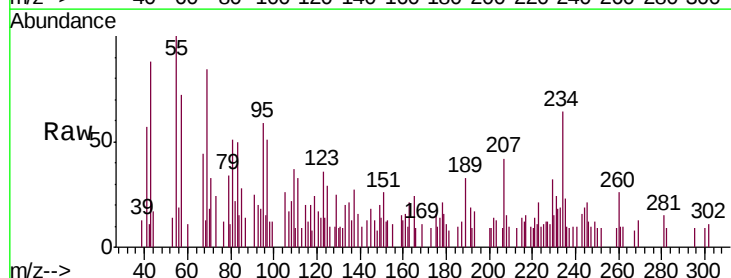


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

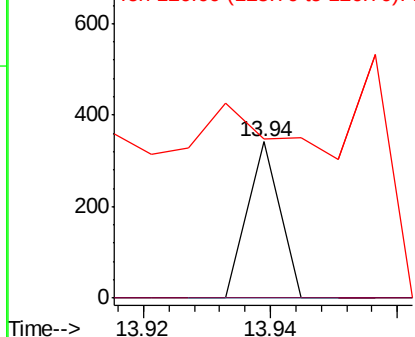
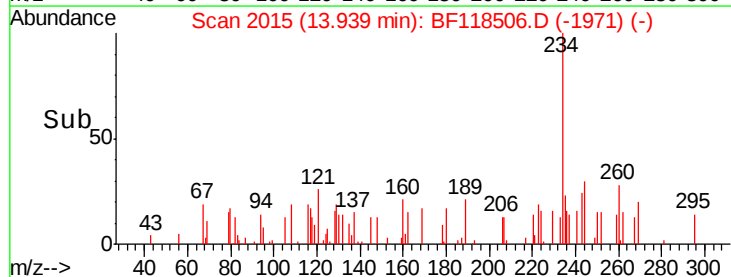


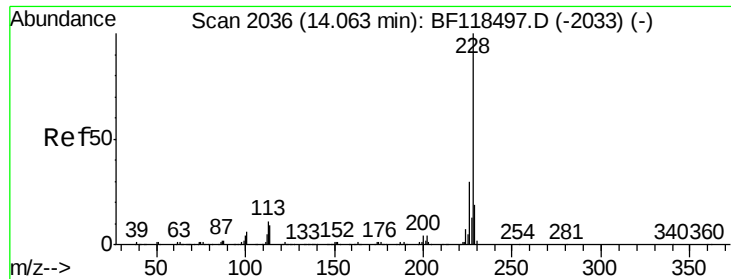
#82
3,3'-Dichlorobenzidine
Concen: 0.033 ng
RT: 13.94 min Scan# 2015
Delta R.T. -0.04 min
Lab File: BF118506.D
Acq: 8 Jan 2020 18:53

Tgt Ion:252 Resp: 121
Ion Ratio Lower Upper
252 100
254 0.0 52.1 78.1#
126 102.0 9.6 14.4#



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

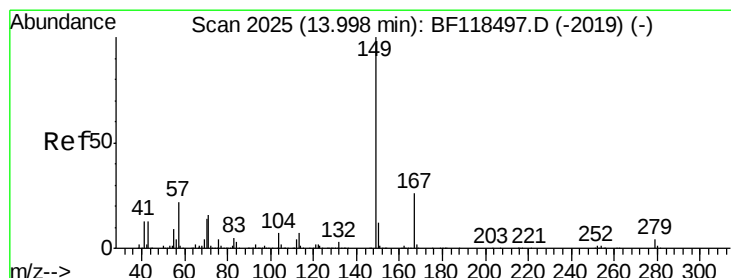
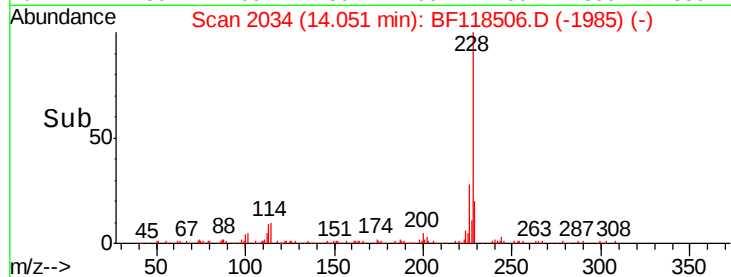
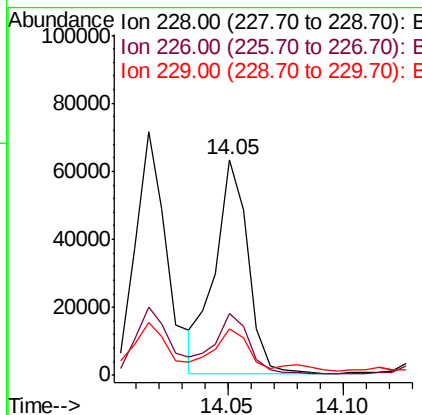
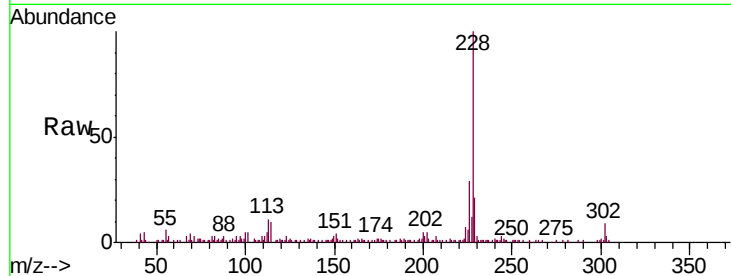




#83
Chrysene
Concen: 5.590 ng
RT: 14.05 min Scan# 2034
Delta R.T. -0.01 min
Lab File: BF118506.D
Acq: 8 Jan 2020 18:53

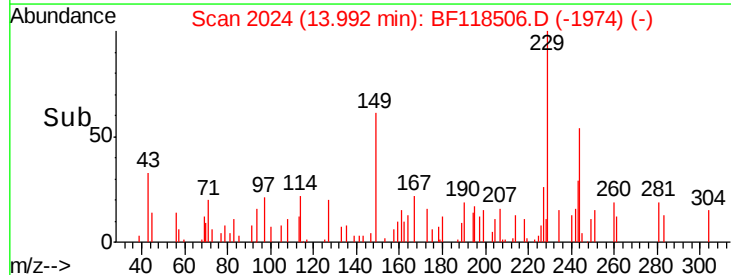
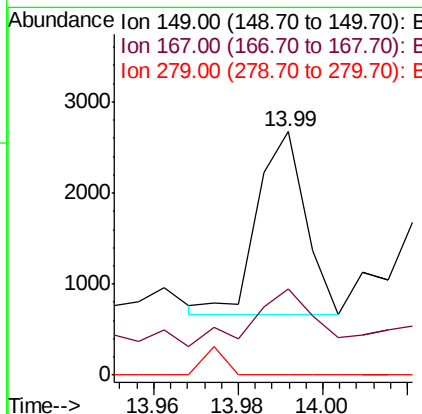
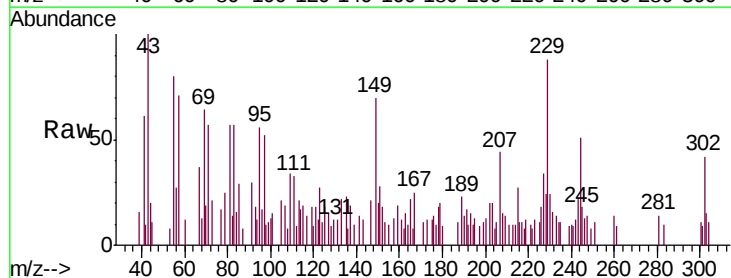
Instrument :
BNA_F
ClientSampled :
TP-1

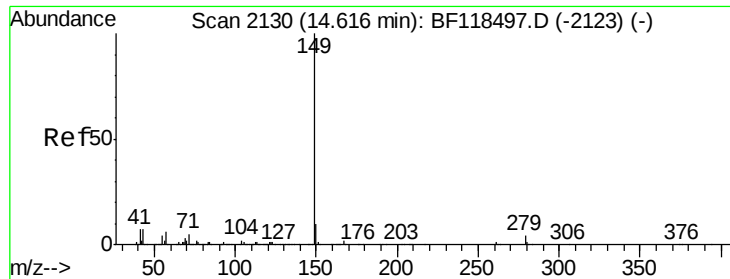
Tgt Ion: 228 Resp: 61978
Ion Ratio Lower Upper
228 100
226 28.8 23.6 35.4
229 21.5 15.6 23.4



#84
Bis(2-ethylhexyl)phthalate
Concen: 0.191 ng
RT: 13.99 min Scan# 2024
Delta R.T. -0.01 min
Lab File: BF118506.D
Acq: 8 Jan 2020 18:53

Tgt Ion: 149 Resp: 1593
Ion Ratio Lower Upper
149 100
167 35.5 20.6 30.8#
279 0.0 3.1 4.7#





#85

Di-n-octyl phthalate

Concen: 0.111 ng

RT: 14.60 min Scan# 2128

Delta R.T. -0.01 min

Lab File: BF118506.D

Acq: 8 Jan 2020 18:53

Instrument :

BNA_F

ClientSampled :

TP-1

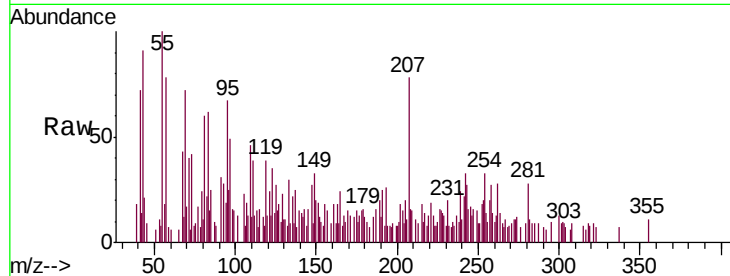
Tgt Ion:149 Resp: 1325

Ion Ratio Lower Upper

149 100

167 0.0 1.2 1.8#

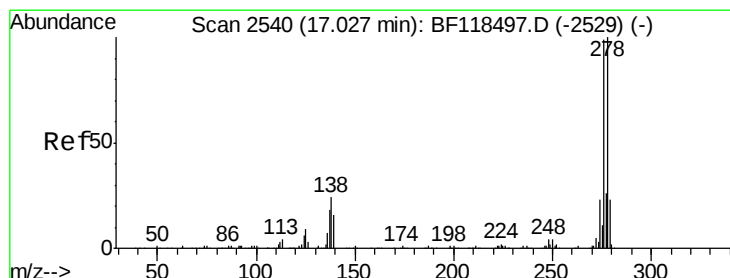
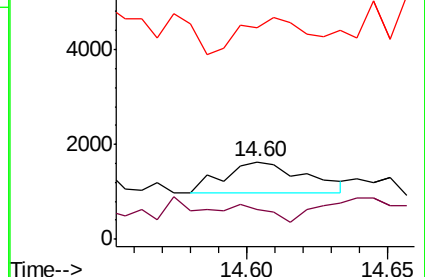
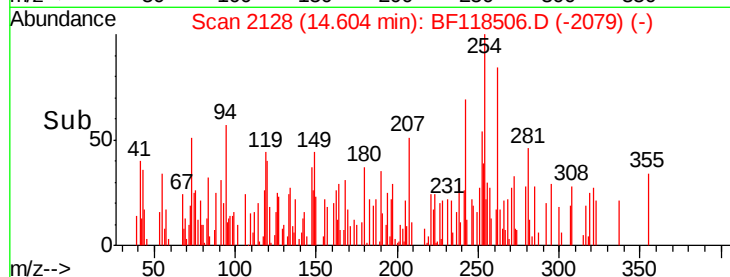
43 112.5 6.4 9.6#



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

Indeno(1,2,3-cd)pyrene

Concen: 3.926 ng

RT: 17.02 min Scan# 2538

Delta R.T. -0.01 min

Lab File: BF118506.D

Acq: 8 Jan 2020 18:53

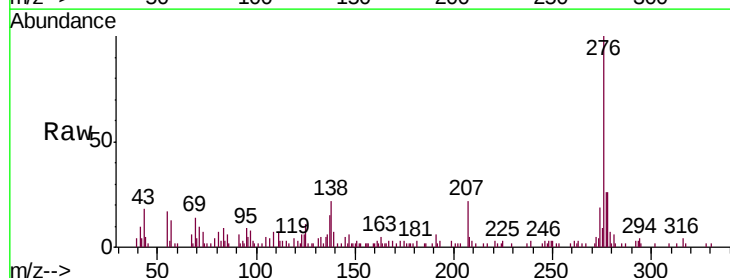
Tgt Ion:276 Resp: 35050

Ion Ratio Lower Upper

276 100

138 22.8 19.0 28.4

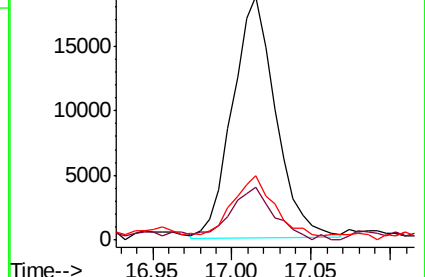
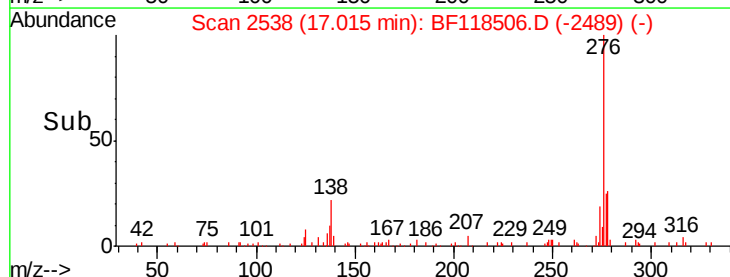
277 25.1 20.5 30.7

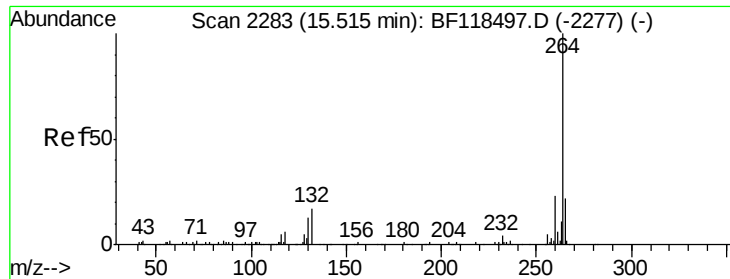


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

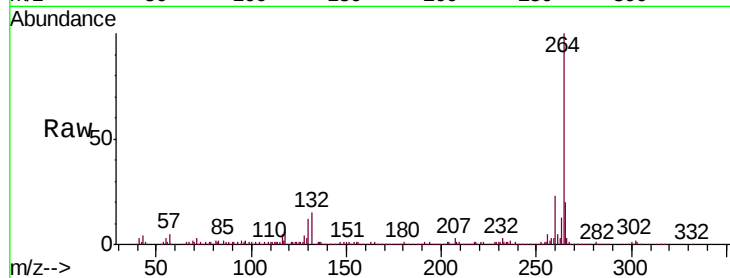




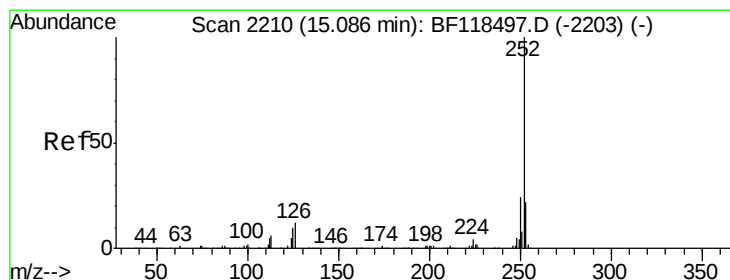
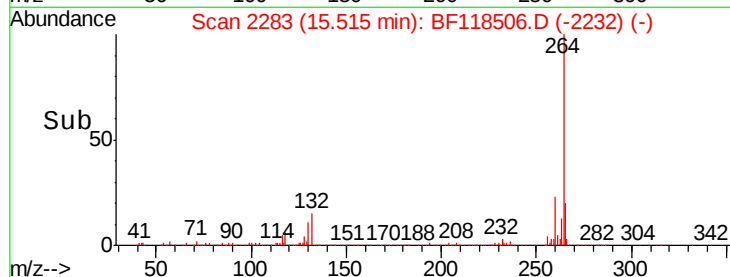
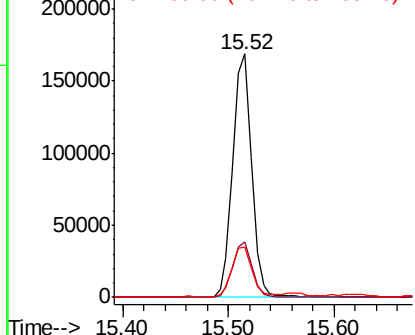
#87
Perylene-d12
Concen: 20.000 ng
RT: 15.52 min Scan# 2283
Delta R.T. -0.00 min
Lab File: BF118506.D
Acq: 8 Jan 2020 18:53

Instrument :
BNA_F
ClientSampleId :
TP-1

Tgt Ion:264 Resp: 208245
Ion Ratio Lower Upper
264 100
260 22.7 18.8 28.2
265 20.5 17.5 26.3

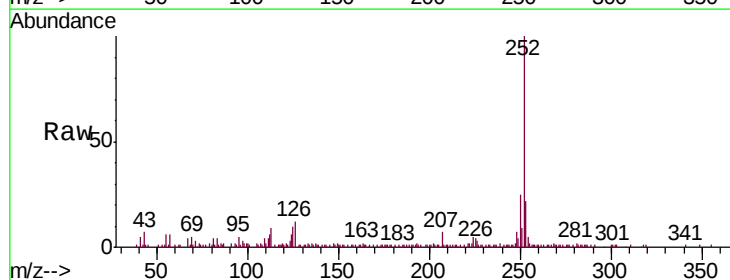


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

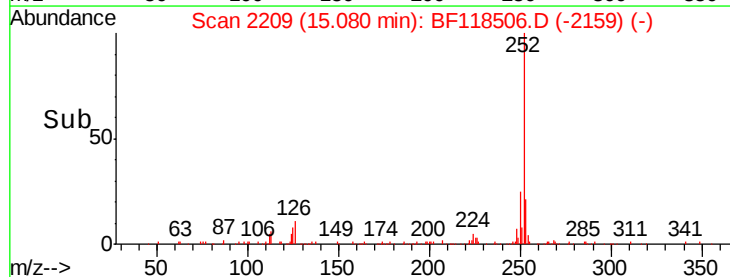
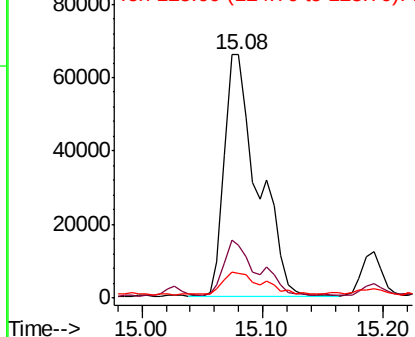


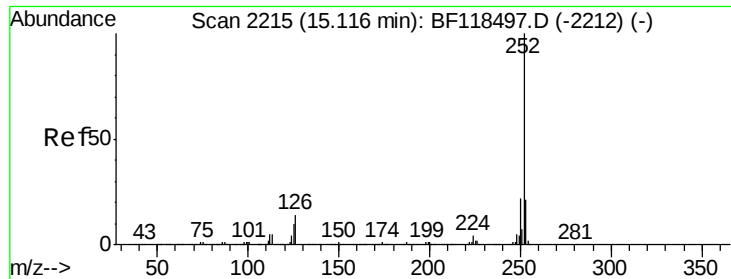
#88
Benzo(b)fluoranthene
Concen: 8.419 ng
RT: 15.08 min Scan# 2209
Delta R.T. -0.01 min
Lab File: BF118506.D
Acq: 8 Jan 2020 18:53

Tgt Ion:252 Resp: 126751
Ion Ratio Lower Upper
252 100
253 21.7 17.6 26.4
125 10.2 7.8 11.6



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

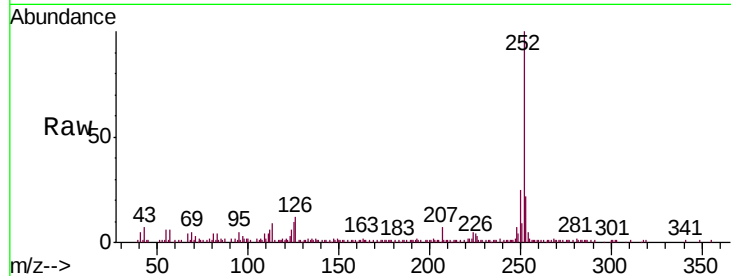




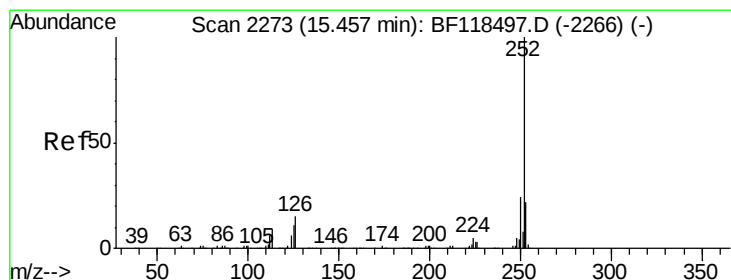
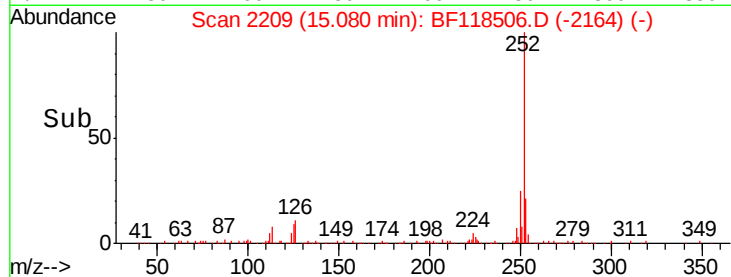
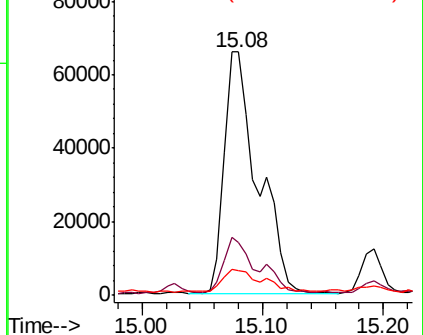
#89
Benzo(k)fluoranthene
Concen: 8.820 ng
RT: 15.08 min Scan# 2209
Delta R.T. -0.04 min
Lab File: BF118506.D
Acq: 8 Jan 2020 18:53

Instrument :
BNA_F
ClientSampled :
TP-1

Tgt Ion:252 Resp: 126751
Ion Ratio Lower Upper
252 100
253 21.7 17.0 25.4
125 10.2 7.8 11.6

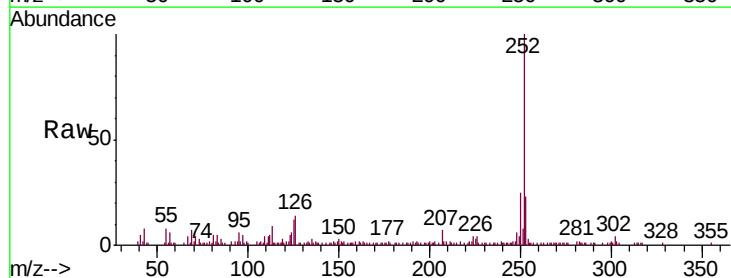


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

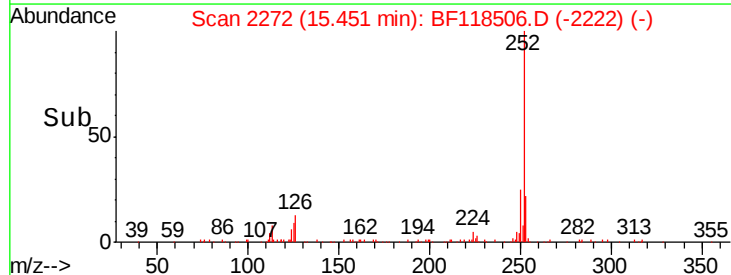
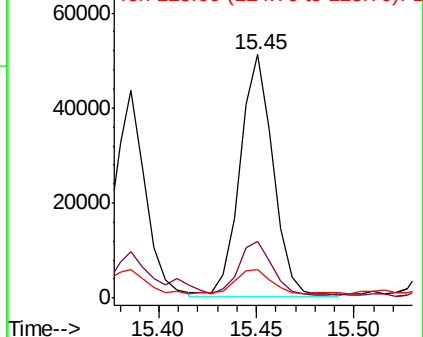


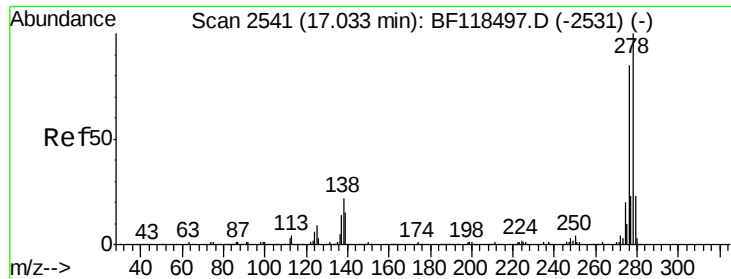
#90
Benzo(a)pyrene
Concen: 4.826 ng
RT: 15.45 min Scan# 2272
Delta R.T. -0.01 min
Lab File: BF118506.D
Acq: 8 Jan 2020 18:53

Tgt Ion:252 Resp: 59543
Ion Ratio Lower Upper
252 100
253 23.2 17.7 26.5
125 11.5 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





#91

Dibenzo(a,h)anthracene

Concen: 0.350 ng

RT: 17.25 min Scan# 2578

Delta R.T. 0.22 min

Lab File: BF118506.D

Acq: 8 Jan 2020 18:53

Instrument :

BNA_F

ClientSampled :

TP-1

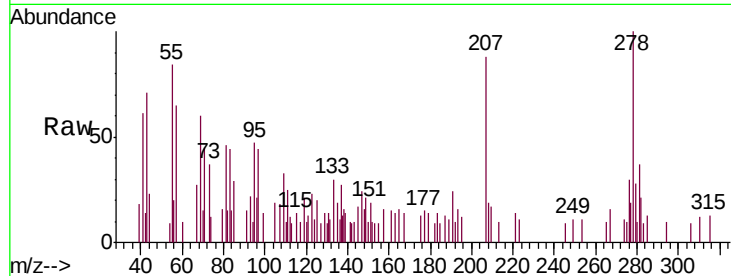
Tgt Ion:278 Resp: 4051

Ion Ratio Lower Upper

278 100

139 13.8 11.9 17.9

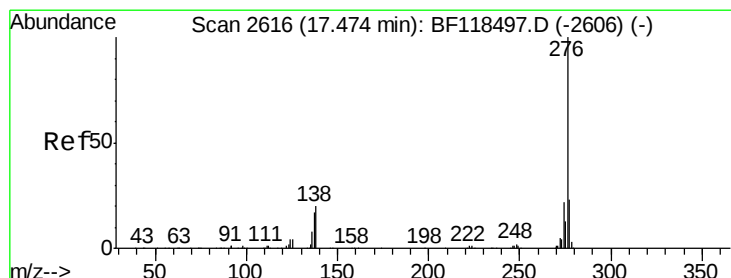
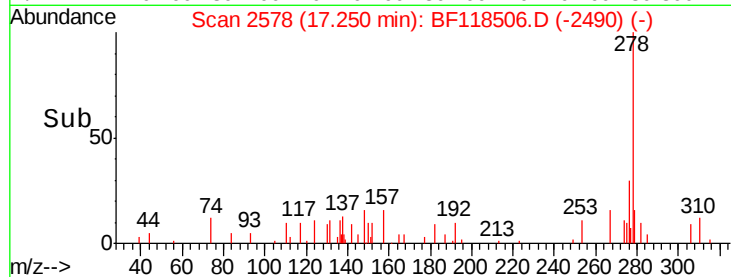
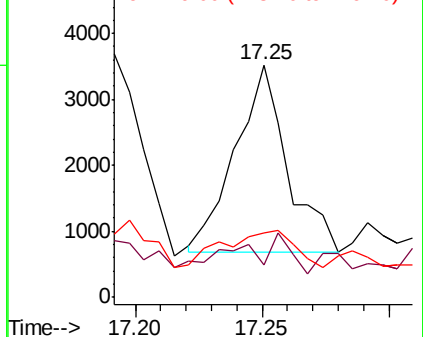
279 27.8 18.6 27.8



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(g,h,i)perylene

Concen: 3.044 ng

RT: 17.47 min Scan# 2615

Delta R.T. -0.01 min

Lab File: BF118506.D

Acq: 8 Jan 2020 18:53

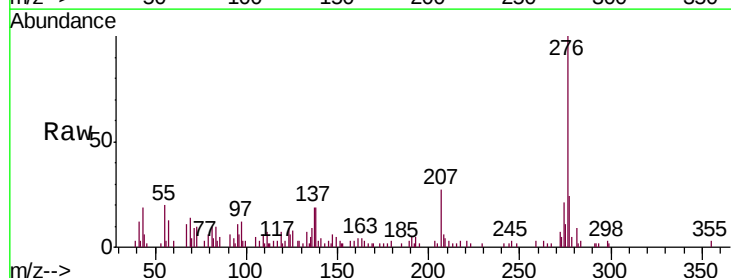
Tgt Ion:276 Resp: 33363

Ion Ratio Lower Upper

276 100

277 24.1 18.2 27.4

138 19.4 16.3 24.5



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

