

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012219\
 Data File : BF112190.D
 Acq On : 22 Jan 2019 13:47
 Operator : JU/SJ
 Sample : K1013-03RE 5X
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PL-01-011819-B

Quant Time: Jan 22 14:48:58 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF011619.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jan 19 01:02:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	264667	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	1051373	20.00	ng	0.00
39) Acenaphthene-d10	9.89	164	501338	20.00	ng	-0.01
64) Phenanthrene-d10	11.37	188	806529	20.00	ng	-0.01
76) Chrysene-d12	14.02	240	593719	20.00	ng	-0.01
87) Perylene-d12	15.49	264	555372	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.48	112	311826	21.38	ng	-0.01
7) Phenol-d6	6.49	99	399513	21.90	ng	-0.01
23) Nitrobenzene-d5	7.40	82	241009	15.84	ng	-0.02
42) 2,4,6-Tribromophenol	10.67	330	111543	20.62	ng	-0.02
45) 2-Fluorobiphenyl	9.20	172	542222	15.86	ng	-0.01
79) Terphenyl-d14	12.96	244	413666	14.82	ng	-0.01

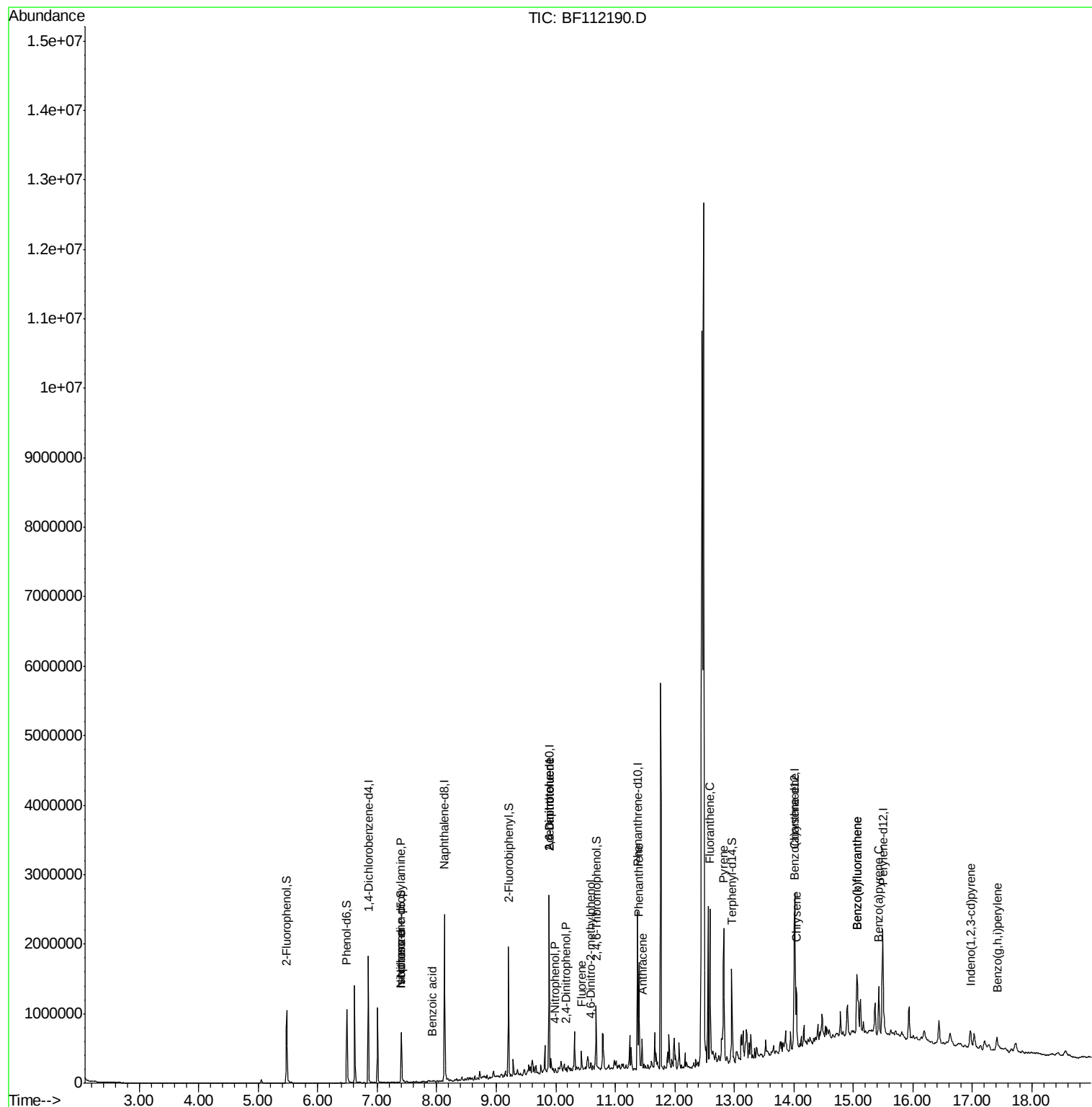
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.49	77	614	Below Cal		# 1
19) n-Nitroso-di-n-propylamine	7.40	70	31896	2.870	ng	# 76
25) Isophorone	7.40	82	236457	8.045	ng	# 64
32) Benzoic acid	7.93	122	124	7.189	ng	# 36
51) 2,6-Dinitrotoluene	9.89	165	69020	9.453	ng	# 34
54) 2,4-Dinitrophenol	10.17	184	125	7.815	ng	# 30
56) 4-Nitrophenol	9.99	139	1568	5.905	ng	# 22
57) 2,4-Dinitrotoluene	9.89	165	69020	11.243	ng	# 32
58) Fluorene	10.43	166	67564	2.041	ng	# 99
65) 4,6-Dinitro-2-methylphenol	10.59	198	120	10.098	ng	# 1
71) Phenanthrene	11.40	178	514773	12.683	ng	# 98
72) Anthracene	11.45	178	162073	3.942	ng	# 98
75) Fluoranthene	12.59	202	818924	19.109	ng	# 98
78) Pyrene	12.82	202	745540	19.033	ng	# 98
81) Benzo(a)anthracene	14.00	228	392554	11.531	ng	# 99
83) Chrysene	14.04	228	357484	11.098	ng	# 95
86) Indeno(1,2,3-cd)pyrene	16.97	276	151149	5.086	ng	# 93
88) Benzo(b)fluoranthene	15.06	252	625343	19.836	ng	# 98
89) Benzo(k)fluoranthene	15.06	252	625343	20.495	ng	# 99
90) Benzo(a)pyrene	15.43	252	328329	11.357	ng	# 97
92) Benzo(a,h,i)perylene	17.41	276	137861	5.450	ng	# 98

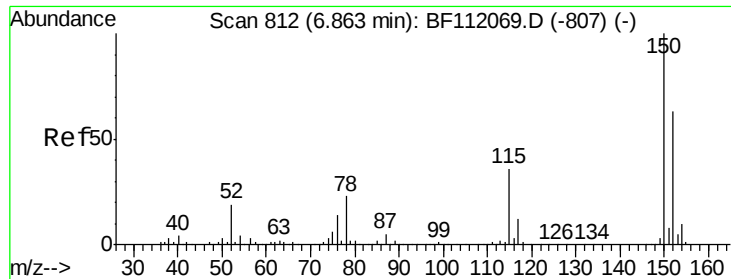
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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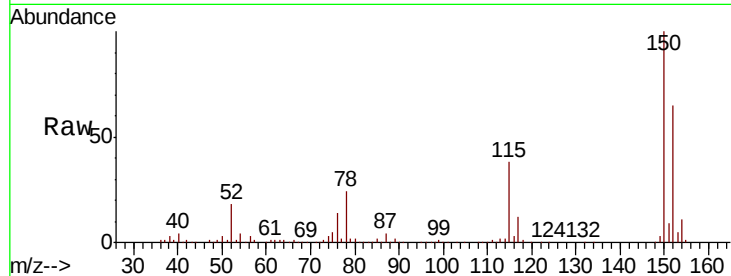


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 810
Delta R.T. -0.01 min
Lab File: BF112190.D
Acq: 22 Jan 2019 13:47

Instrument :
BNA_F
ClientSampleId :
PL-01-011819-B

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.0	127.4	191.0
115	58.9	45.5	68.3

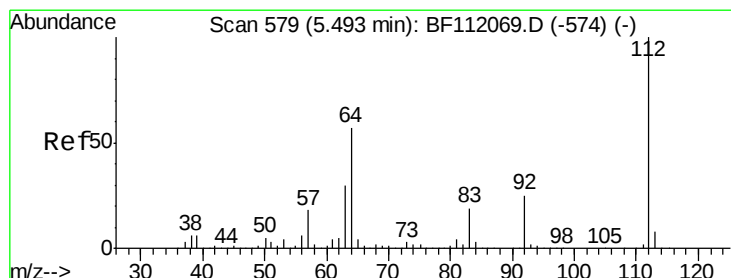
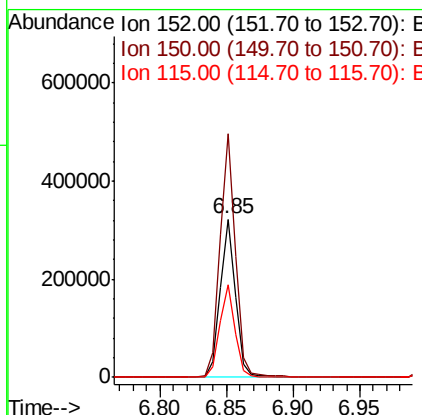
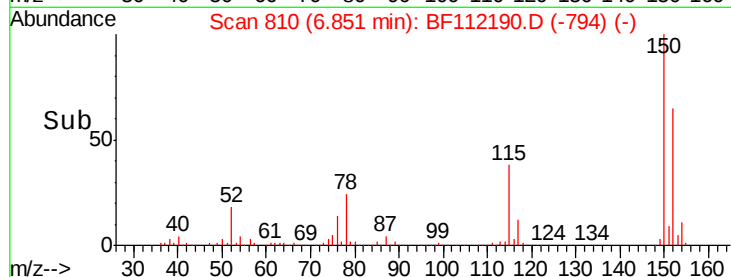


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

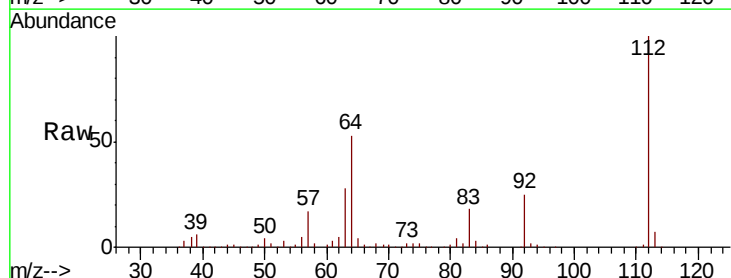
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 21.384 ng
RT: 5.48 min Scan# 577
Delta R.T. -0.01 min
Lab File: BF112190.D
Acq: 22 Jan 2019 13:47

Tgt Ion	Ratio	Lower	Upper
112	100		
64	52.6	45.7	68.5
63	28.1	23.6	35.4

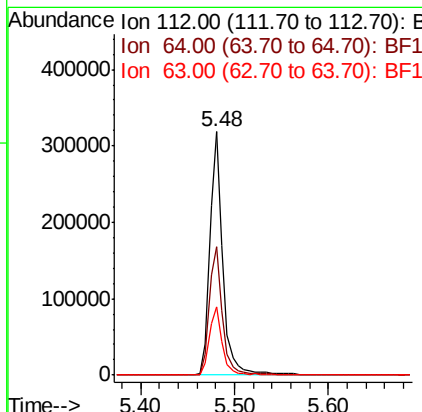
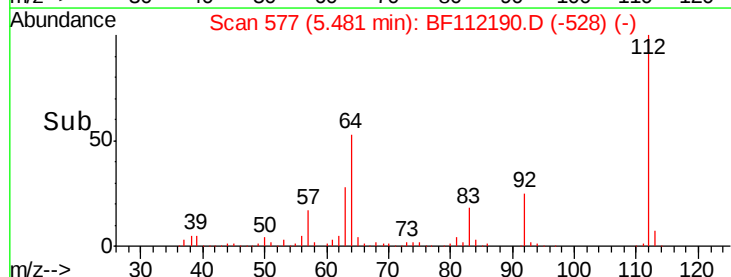


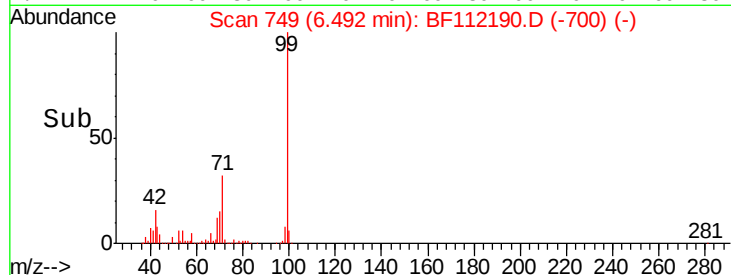
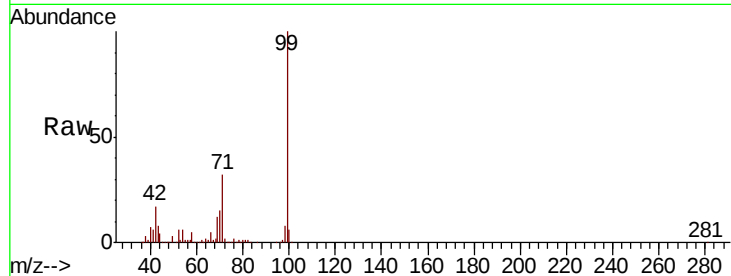
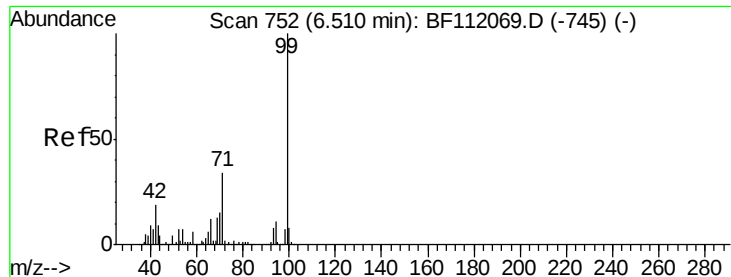
Abundance

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





#7

Phenol-d6

Concen: 21.898 ng

RT: 6.49 min Scan# 749

Delta R.T. -0.01 min

Lab File: BF112190.D

Acq: 22 Jan 2019 13:47

Instrument :

BNA_F

ClientSampleId :

PL-01-011819-B

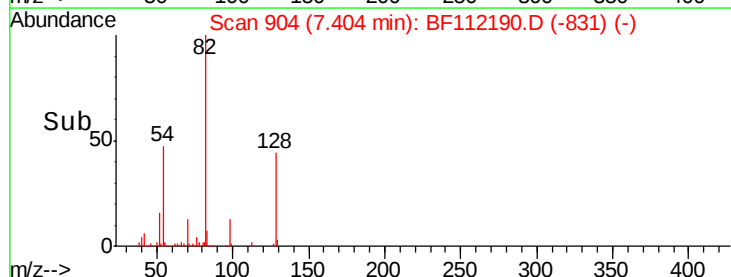
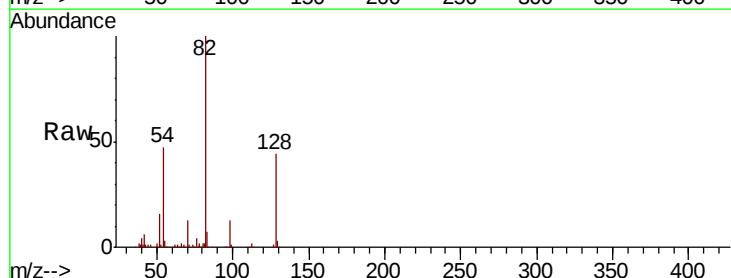
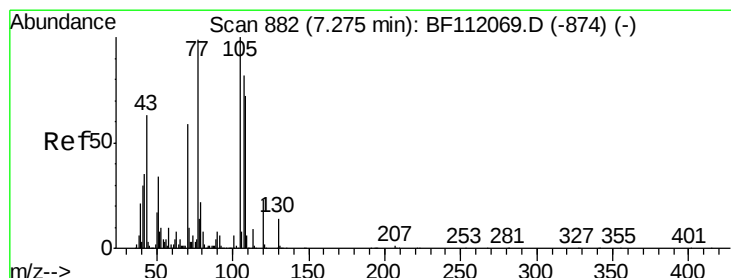
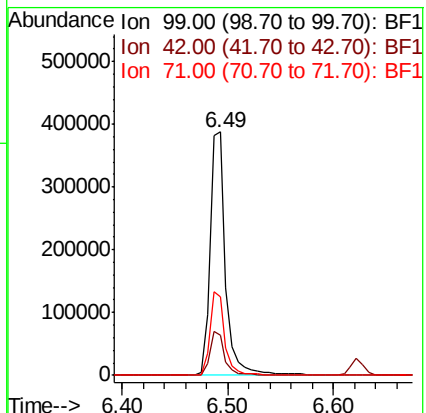
Tot Ion: 99 Resp: 399513

Ion Ratio Lower Upper

99 100

42 16.6 15.1 22.7

71 32.1 26.9 40.3



#19

n-Nitroso-di-n-propylamine

Concen: 2.870 ng

RT: 7.40 min Scan# 904

Delta R.T. 0.13 min

Lab File: BF112190.D

Acq: 22 Jan 2019 13:47

Tgt Ion: 70 Resp: 31896

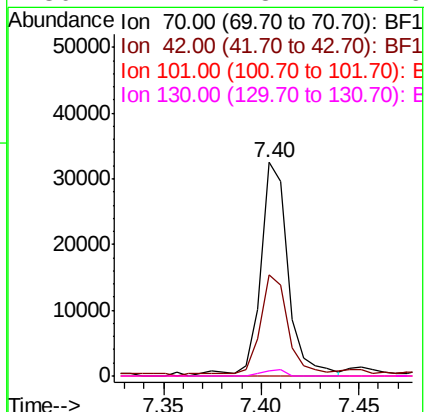
Ion Ratio Lower Upper

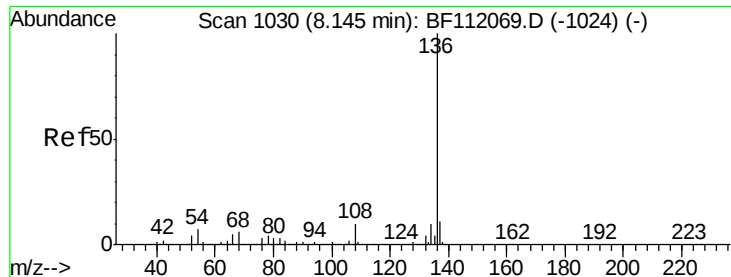
70 100

42 47.1 47.6 71.4#

101 0.0 7.9 11.9#

130 2.4 18.4 27.6#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.13 min Scan# 1028

Delta R.T. -0.01 min

Lab File: BF112190.D

Acq: 22 Jan 2019 13:47

Instrument :

BNA_F

ClientSampleId :

PL-01-011819-B

Tot Ion:136 Resp: 1051373

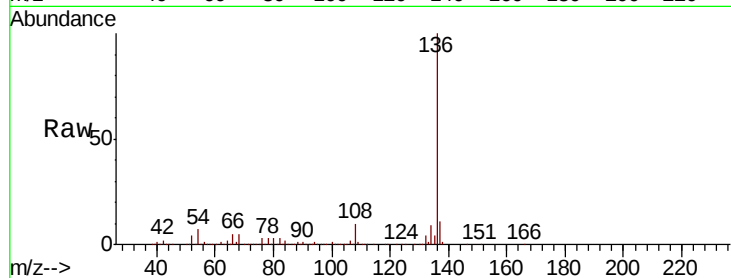
Ion Ratio Lower Upper

136 100

137 11.2 9.1 13.7

54 6.5 5.9 8.9

68 5.4 5.1 7.7

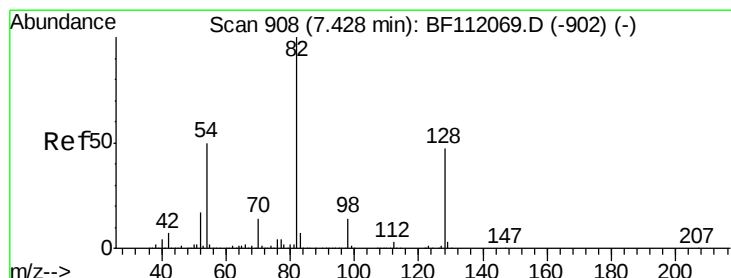
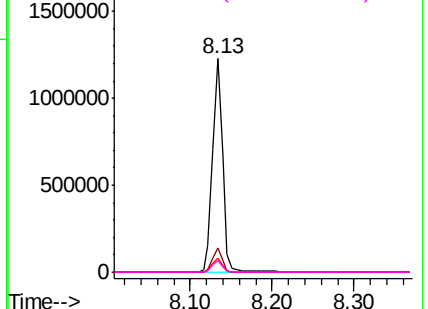
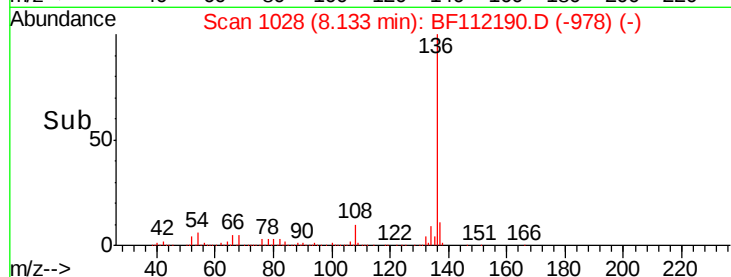


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#23

Nitrobenzene-d5

Concen: 15.837 ng

RT: 7.40 min Scan# 904

Delta R.T. -0.02 min

Lab File: BF112190.D

Acq: 22 Jan 2019 13:47

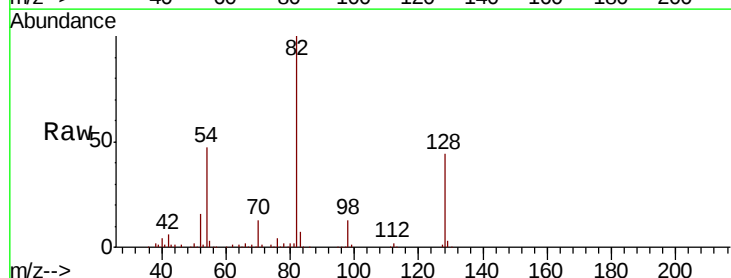
Tgt Ion: 82 Resp: 241009

Ion Ratio Lower Upper

82 100

128 43.9 37.8 56.8

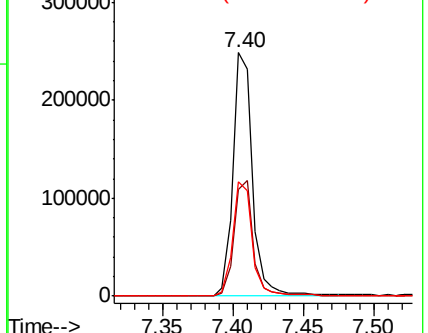
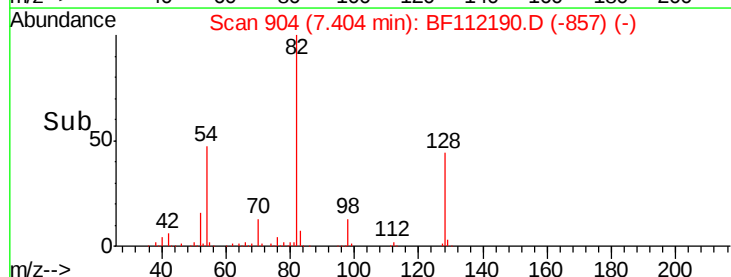
54 47.2 39.7 59.5

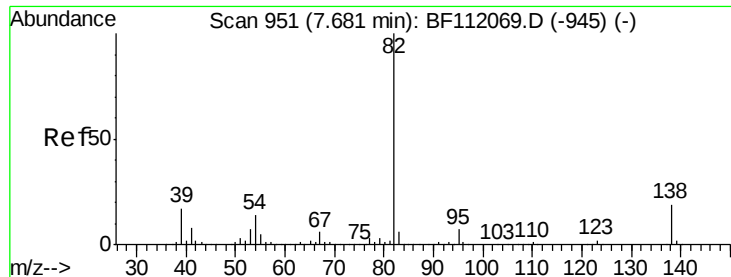


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 8.045 ng

RT: 7.40 min Scan# 904

Delta R.T. -0.28 min

Lab File: BF112190.D

Acq: 22 Jan 2019 13:47

Instrument :

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ClientSampleId :

PL-01-011819-B

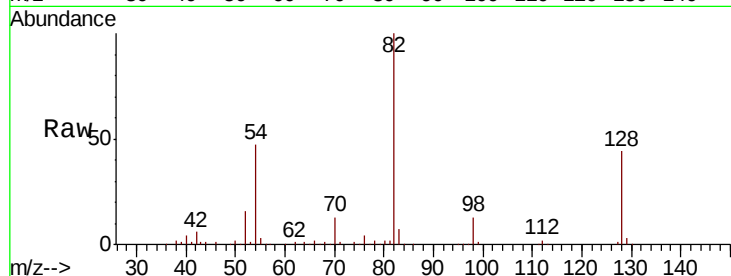
Tot Ion: 82 Resp: 236457

Ion Ratio Lower Upper

82 100

95 0.1 5.7 8.5#

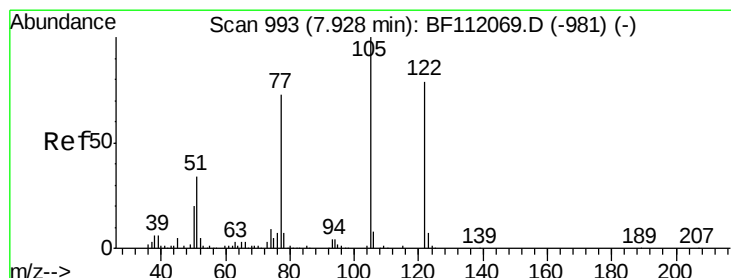
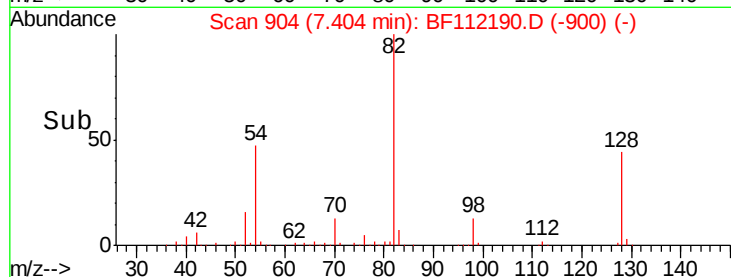
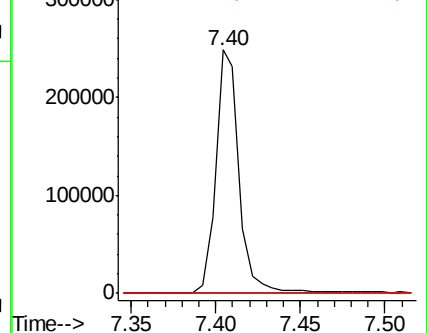
138 0.0 15.4 23.0#



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



#32

Benzoic acid

Concen: 7.189 ng

RT: 7.93 min Scan# 993

Delta R.T. -0.01 min

Lab File: BF112190.D

Acq: 22 Jan 2019 13:47

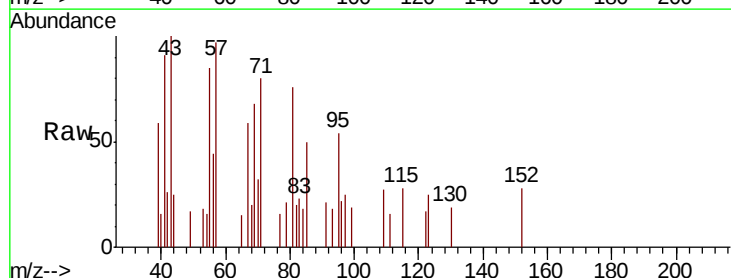
Tgt Ion: 122 Resp: 124

Ion Ratio Lower Upper

122 100

105 0.0 101.2 141.2#

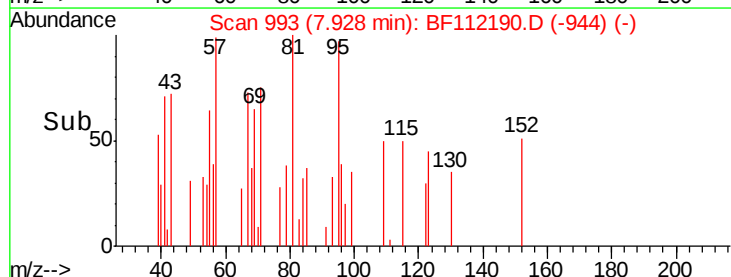
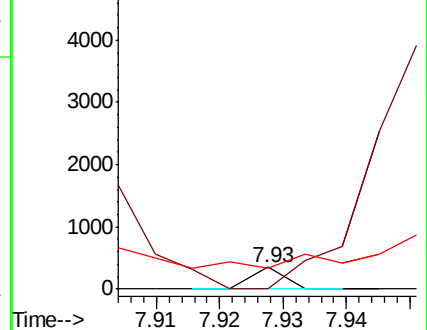
77 94.9 70.4 110.4

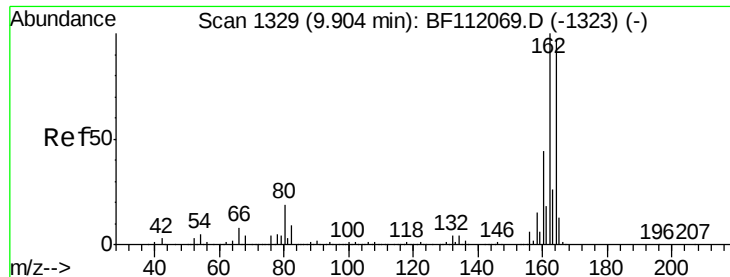


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF1

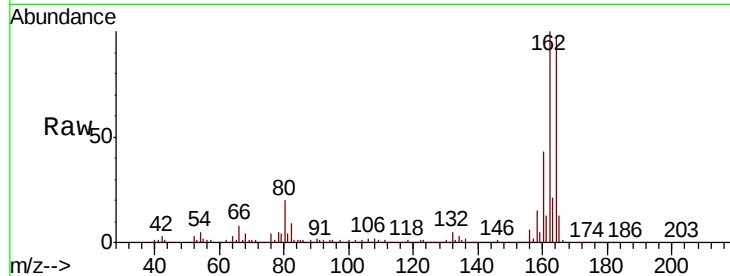




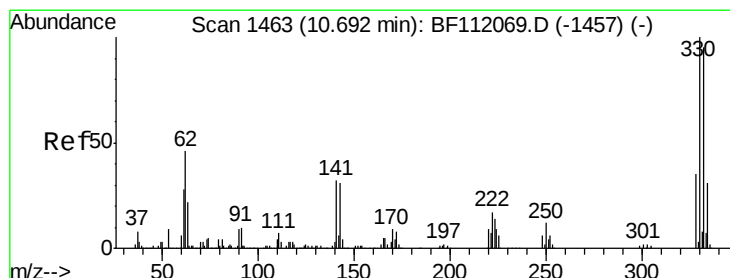
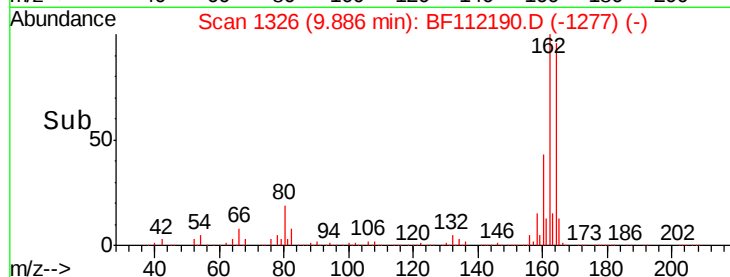
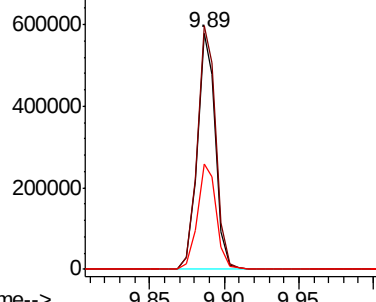
#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.89 min Scan# 1326
 Delta R.T. -0.01 min
 Lab File: BF112190.D
 Acq: 22 Jan 2019 13:47

Instrument :
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 PL-01-011819-B

Tot Ion:164 Resp: 501338
 Ion Ratio Lower Upper
 164 100
 162 102.9 82.2 123.4
 160 44.4 36.2 54.4

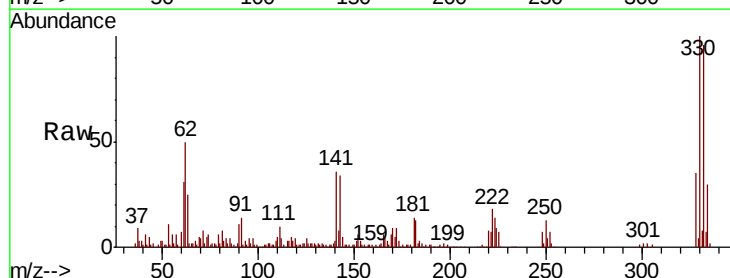


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

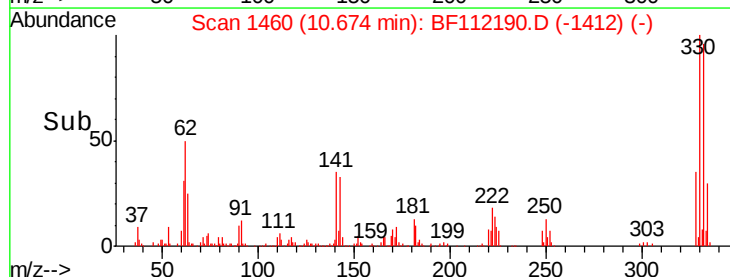
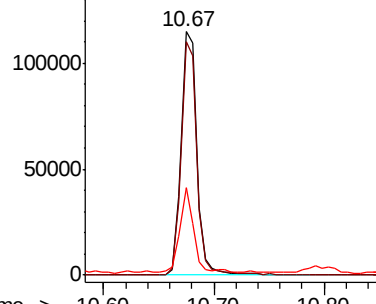


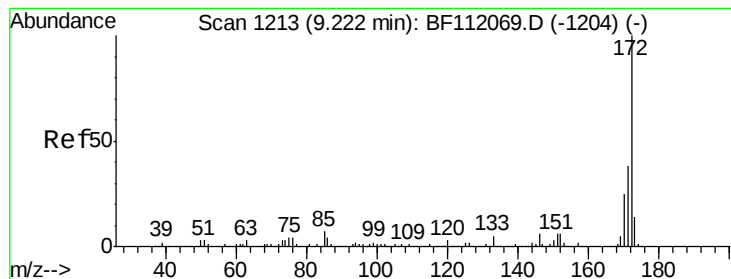
#42
 2,4,6-Tribromophenol
 Concen: 20.624 ng
 RT: 10.67 min Scan# 1460
 Delta R.T. -0.02 min
 Lab File: BF112190.D
 Acq: 22 Jan 2019 13:47

Tgt Ion:330 Resp: 111543
 Ion Ratio Lower Upper
 330 100
 332 94.9 76.6 114.8
 141 30.4 24.3 36.5



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: 15.857 ng

RT: 9.20 min Scan# 1210

Delta R.T. -0.01 min

Lab File: BF112190.D

Acq: 22 Jan 2019 13:47

Instrument :

BNA_F

ClientSampleId :

PL-01-011819-B

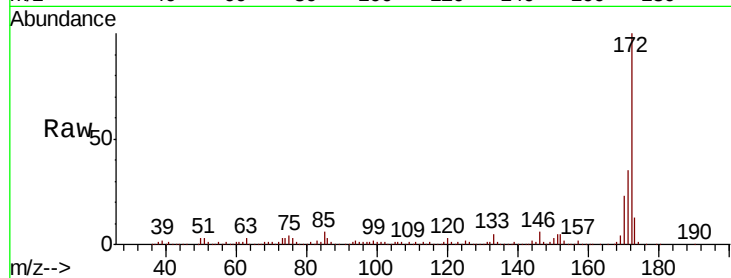
Tot Ion:172 Resp: 542222

Ion Ratio Lower Upper

172 100

171 35.3 30.5 45.7

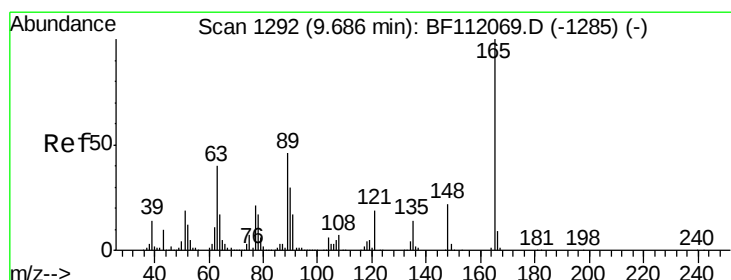
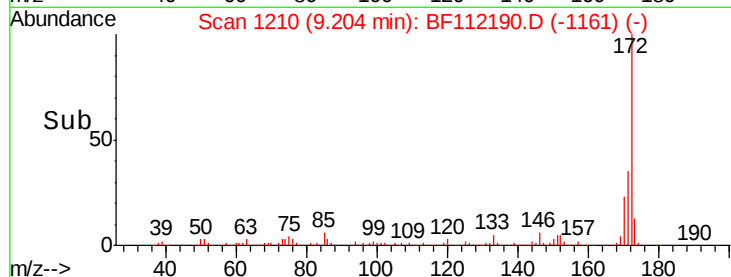
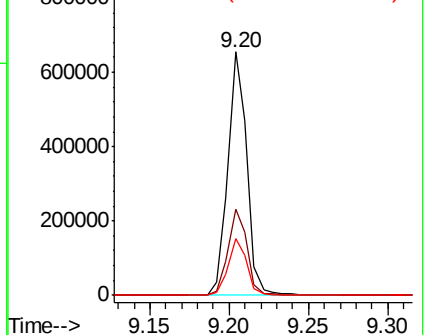
170 23.4 20.2 30.4



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



#51

2,6-Dinitrotoluene

Concen: 9.453 ng

RT: 9.89 min Scan# 1326

Delta R.T. 0.21 min

Lab File: BF112190.D

Acq: 22 Jan 2019 13:47

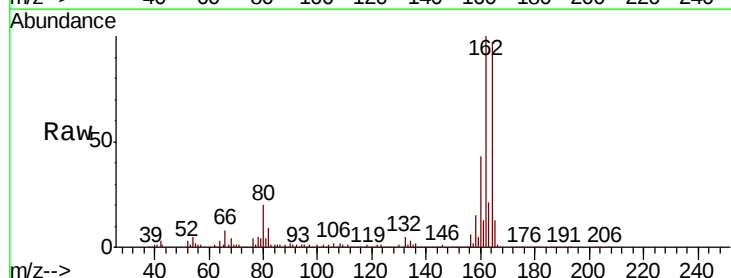
Tgt Ion:165 Resp: 69020

Ion Ratio Lower Upper

165 100

63 1.7 33.8 50.8#

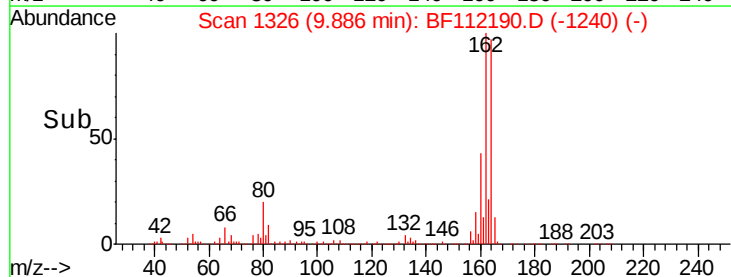
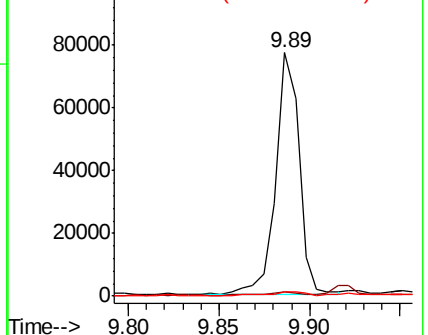
89 1.6 36.9 55.3#

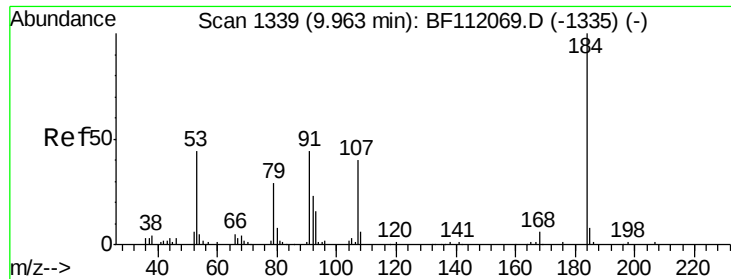


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

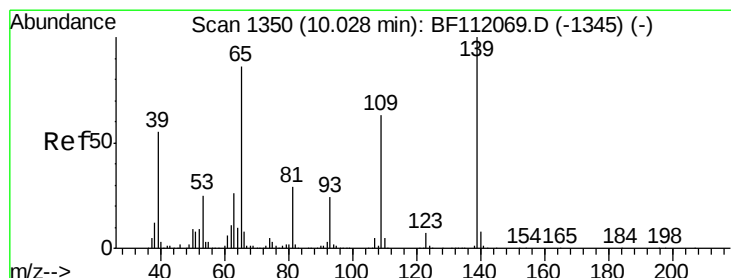
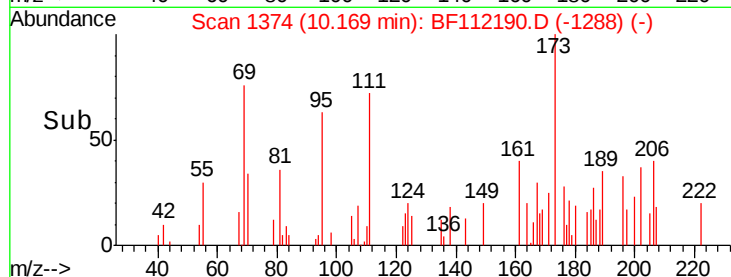
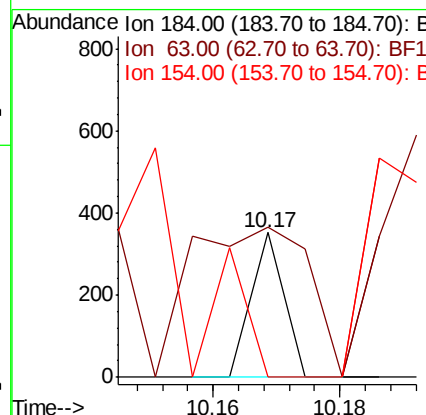
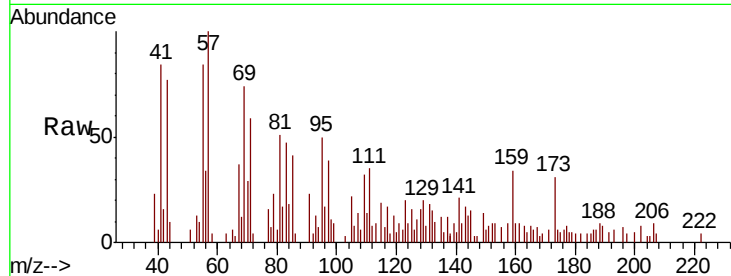




#54
 2,4-Dinitrophenol
 Concen: 7.815 ng
 RT: 10.17 min Scan# 1374
 Delta R.T. 0.21 min
 Lab File: BF112190.D
 Acq: 22 Jan 2019 13:47

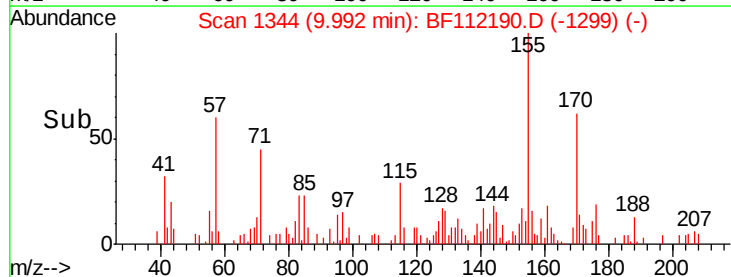
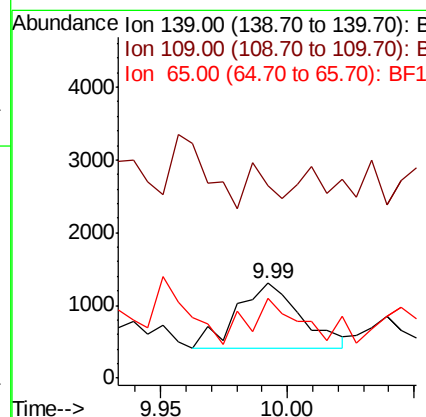
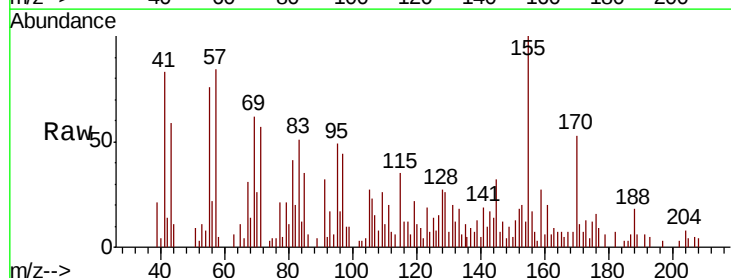
Instrument :
 BNA_F
 ClientSampleId :
 PL-01-011819-B

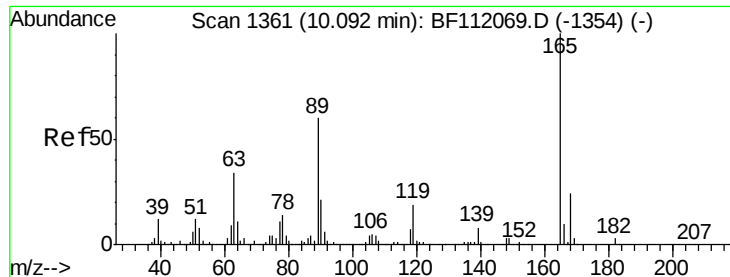
Tot Ion:184 Resp: 125
 Ion Ratio Lower Upper
 184 100
 63 103.4 47.1 70.7#
 154 0.0 48.9 73.3#



#56
 4-Nitrophenol
 Concen: 5.905 ng
 RT: 9.99 min Scan# 1344
 Delta R.T. -0.04 min
 Lab File: BF112190.D
 Acq: 22 Jan 2019 13:47

Tgt Ion:139 Resp: 1568
 Ion Ratio Lower Upper
 139 100
 109 202.6 42.8 82.8#
 65 83.6 66.1 106.1

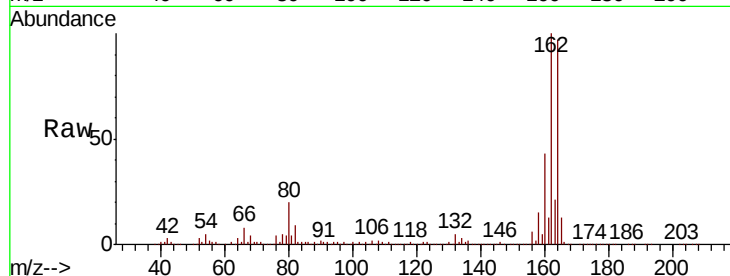




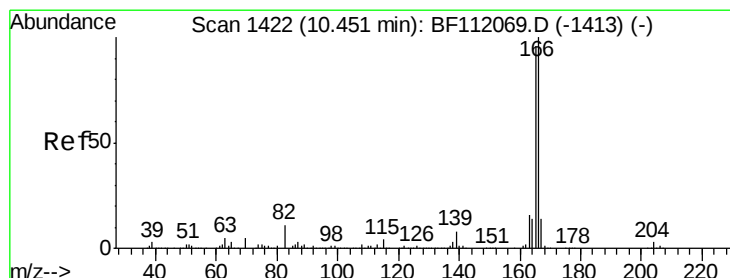
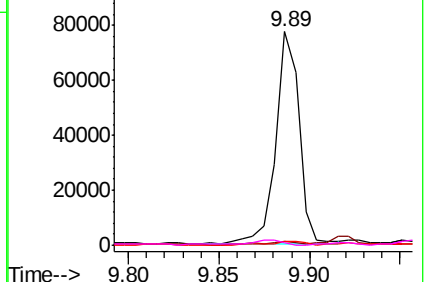
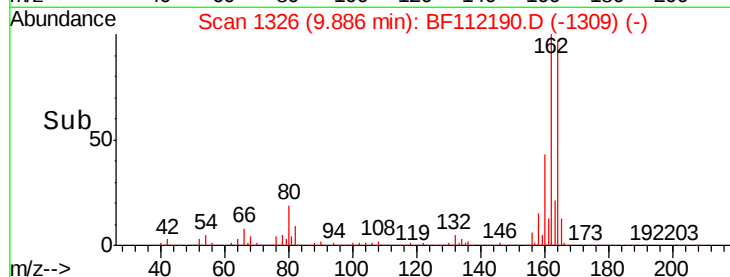
#57
2,4-Dinitrotoluene
Concen: 11.243 ng
RT: 9.89 min Scan# 1326
Delta R.T. -0.20 min
Lab File: BF112190.D
Acq: 22 Jan 2019 13:47

Instrument :
BNA_F
ClientSampleId :
PL-01-011819-B

Tot Ion	Ratio	Lower	Upper
165	100		
63	1.7	27.9	41.9#
89	1.6	47.9	71.9#
182	1.1	2.2	3.4#

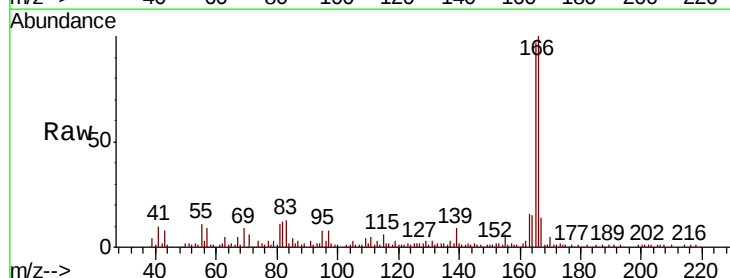


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 89.00 (88.70 to 89.70): BF1
Ion 182.00 (181.70 to 182.70): E

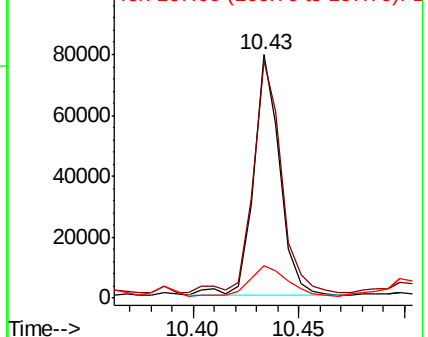
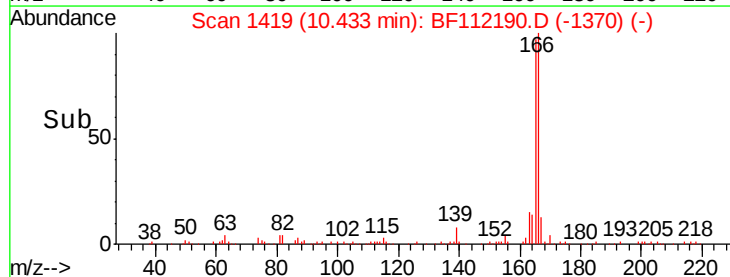


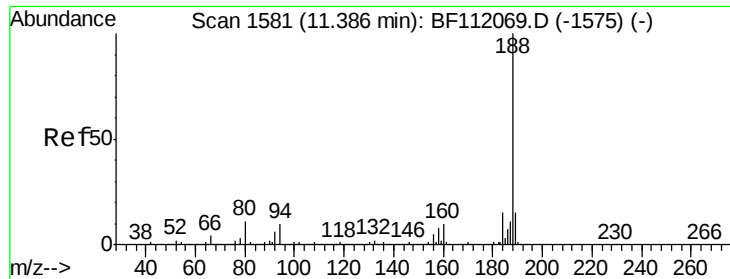
#58
Fluorene
Concen: 2.041 ng
RT: 10.43 min Scan# 1419
Delta R.T. -0.01 min
Lab File: BF112190.D
Acq: 22 Jan 2019 13:47

Tgt Ion	Ratio	Lower	Upper
166	100		
165	97.4	77.1	115.7
167	13.5	11.3	16.9



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

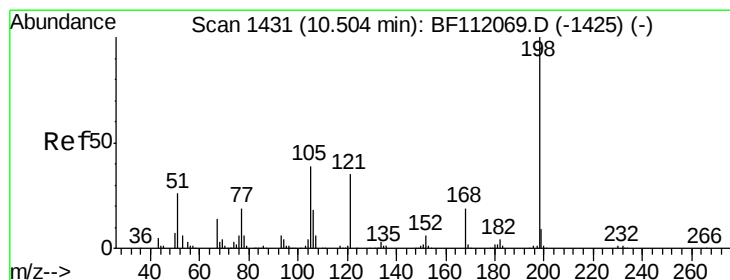
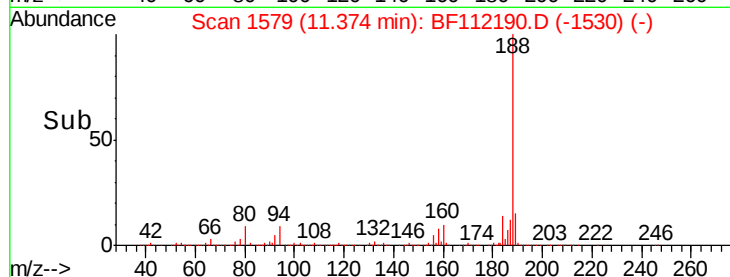
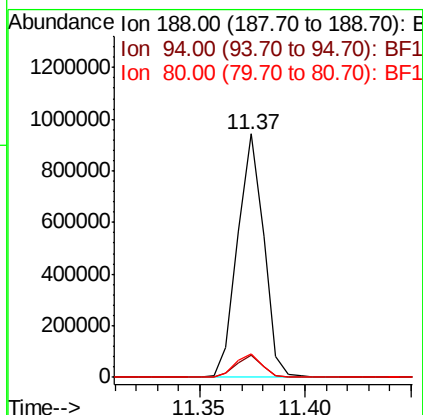
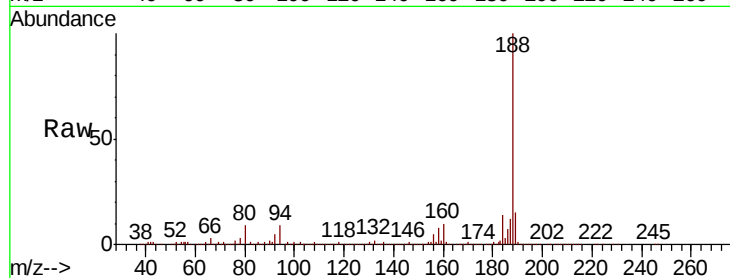




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.37 min Scan# 1579
Delta R.T. -0.01 min
Lab File: BF112190.D
Acq: 22 Jan 2019 13:47

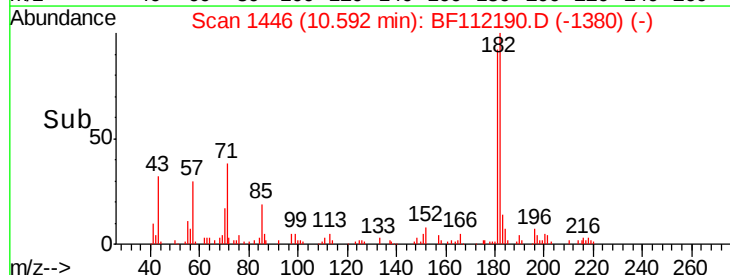
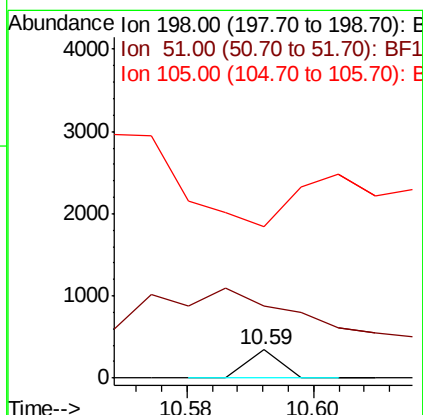
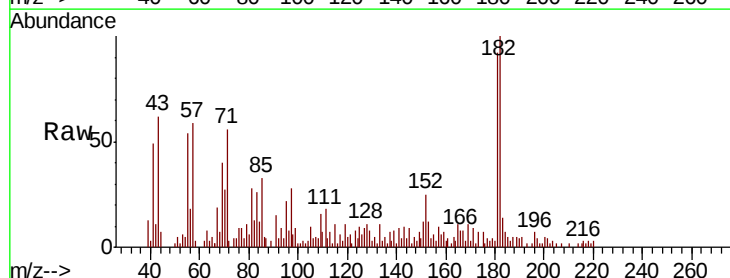
Instrument :
BNA_F
ClientSampleId :
PL-01-011819-B

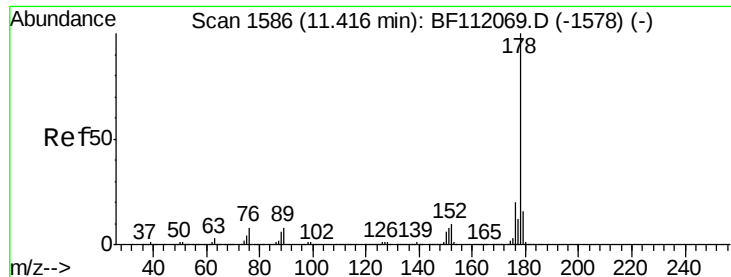
Tot Ion:188 Resp: 806529
Ion Ratio Lower Upper
188 100
94 9.0 8.2 12.2
80 9.4 8.9 13.3



#65
4,6-Dinitro-2-methylphenol
Concen: 10.098 ng
RT: 10.59 min Scan# 1446
Delta R.T. 0.09 min
Lab File: BF112190.D
Acq: 22 Jan 2019 13:47

Tgt Ion:198 Resp: 120
Ion Ratio Lower Upper
198 100
51 256.8 17.2 57.2#
105 541.5 21.9 61.9#

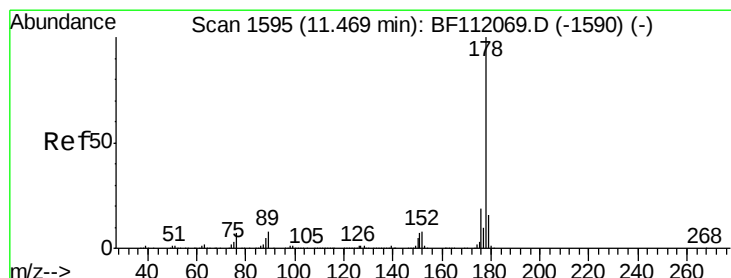
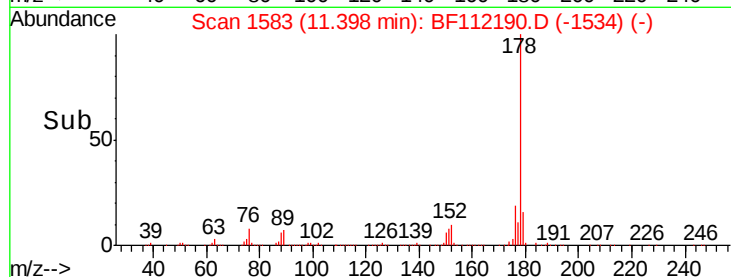
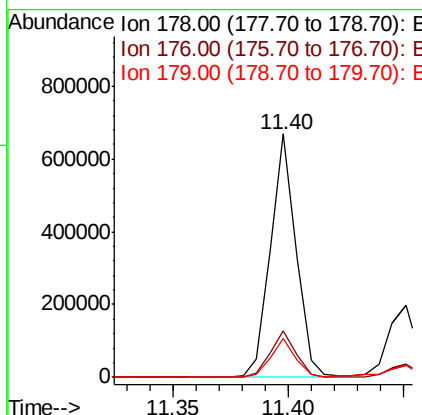
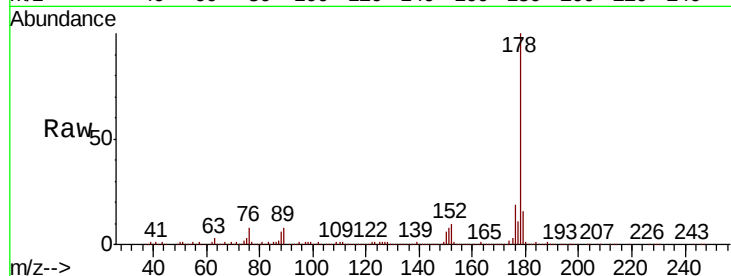




#71
Phenanthrene
Concen: 12.683 ng
RT: 11.40 min Scan# 1583
Delta R.T. -0.01 min
Lab File: BF112190.D
Acq: 22 Jan 2019 13:47

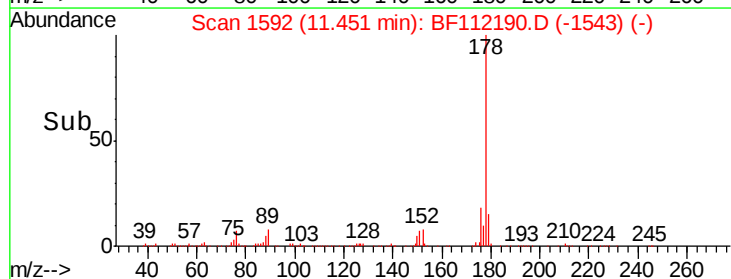
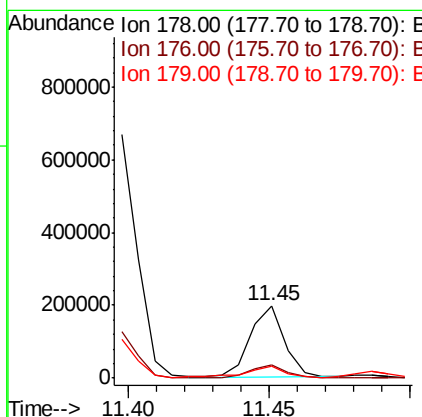
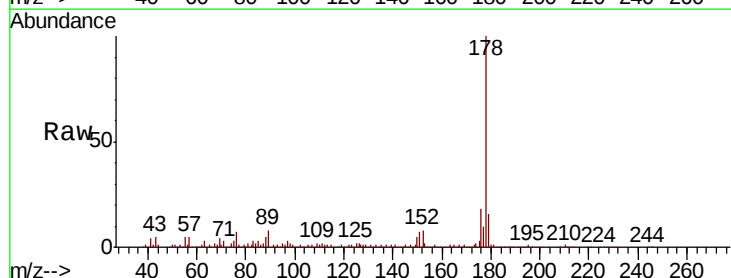
Instrument :
BNA_F
ClientSampleId :
PL-01-011819-B

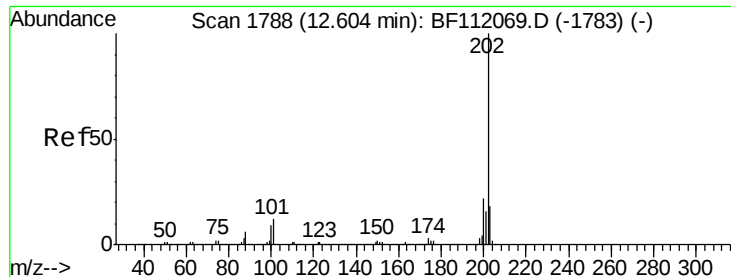
Tot Ion:178 Resp: 514773
Ion Ratio Lower Upper
178 100
176 19.2 16.3 24.5
179 15.9 13.0 19.4



#72
Anthracene
Concen: 3.942 ng
RT: 11.45 min Scan# 1592
Delta R.T. -0.01 min
Lab File: BF112190.D
Acq: 22 Jan 2019 13:47

Tgt Ion:178 Resp: 162073
Ion Ratio Lower Upper
178 100
176 17.8 15.5 23.3
179 15.7 12.8 19.2





#75

Fluoranthene

Concen: 19.109 ng

RT: 12.59 min Scan# 1786

Delta R.T. -0.01 min

Lab File: BF112190.D

Acq: 22 Jan 2019 13:47

Instrument :

BNA_F

ClientSampleId :

PL-01-011819-B

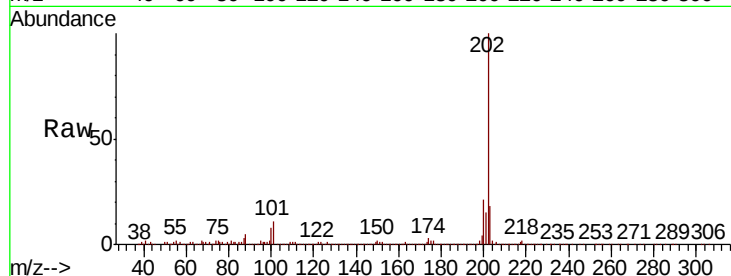
Tot Ion:202 Resp: 818924

Ion Ratio Lower Upper

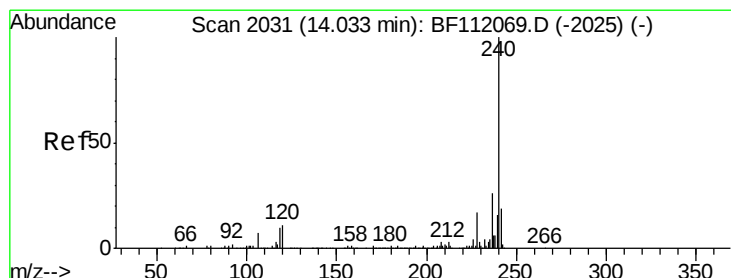
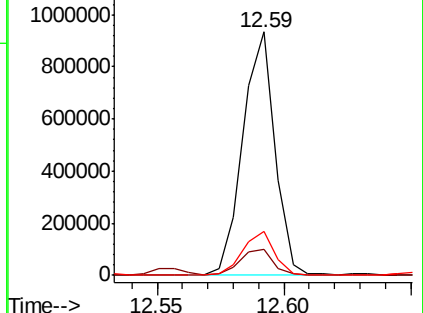
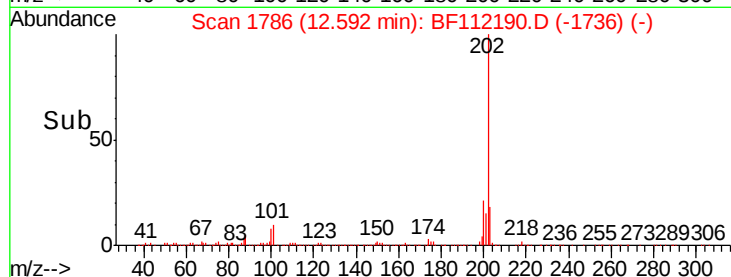
202 100

101 10.5 0.0 31.8

203 18.0 0.0 38.4



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: 14.02 min Scan# 2028

Delta R.T. -0.01 min

Lab File: BF112190.D

Acq: 22 Jan 2019 13:47

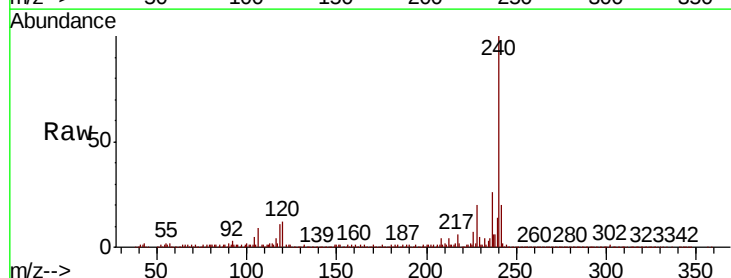
Tgt Ion:240 Resp: 593719

Ion Ratio Lower Upper

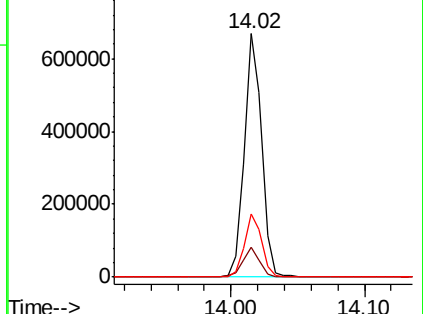
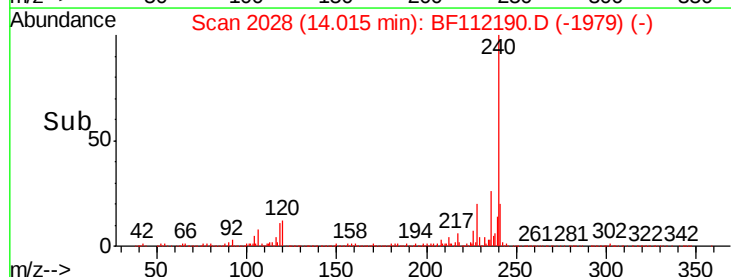
240 100

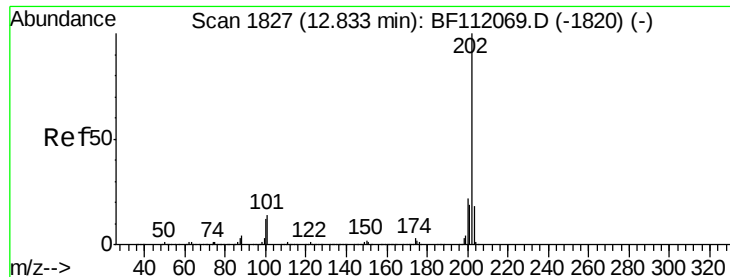
120 12.3 9.0 13.6

236 25.7 20.7 31.1



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

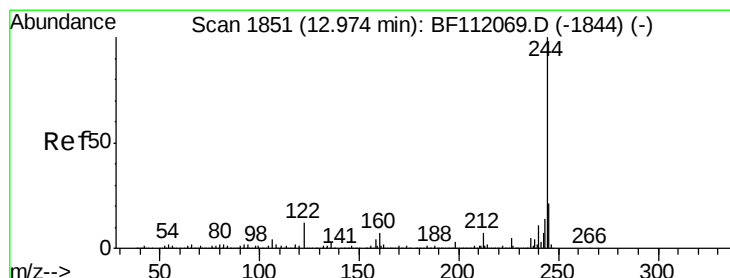
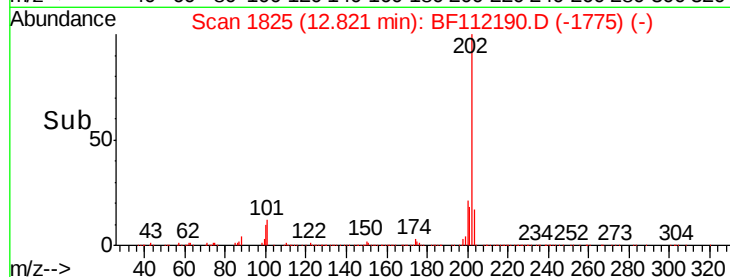
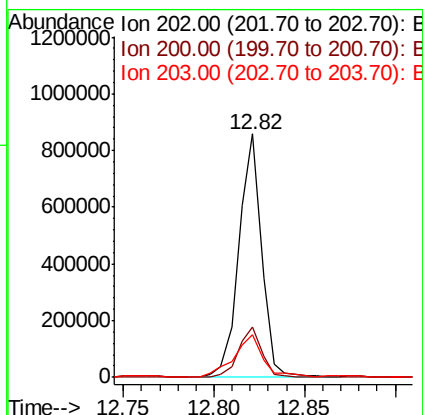
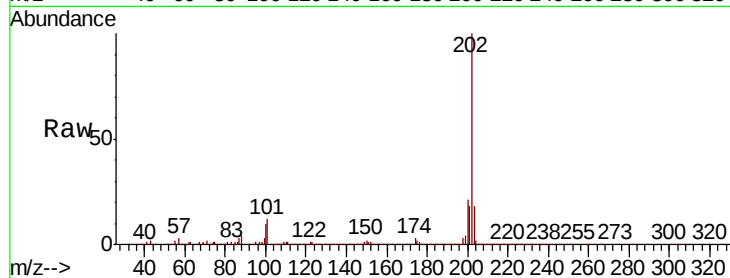




#78
Pvrene
Concen: 19.033 ng
RT: 12.82 min Scan# 1825
Delta R.T. -0.01 min
Lab File: BF112190.D
Acq: 22 Jan 2019 13:47

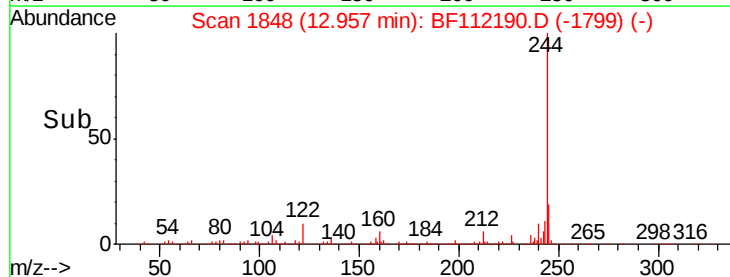
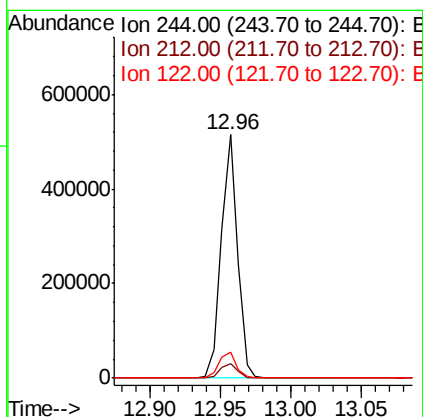
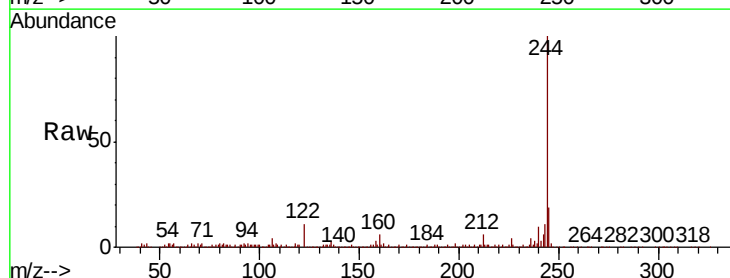
Instrument :
BNA_F
ClientSampleId :
PL-01-011819-B

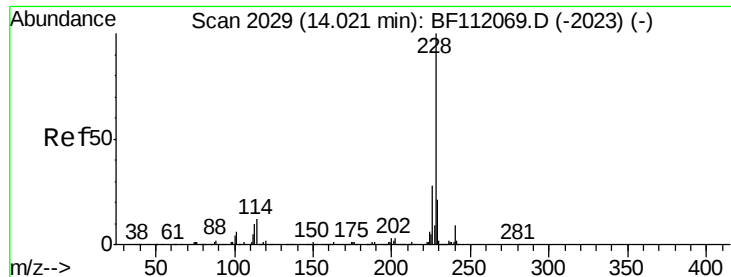
Tot Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.7	26.5
203	17.7	14.6	22.0



#79
Terphenyl-d14
Concen: 14.822 ng
RT: 12.96 min Scan# 1848
Delta R.T. -0.01 min
Lab File: BF112190.D
Acq: 22 Jan 2019 13:47

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.2	5.9	8.9
122	10.5	9.8	14.6

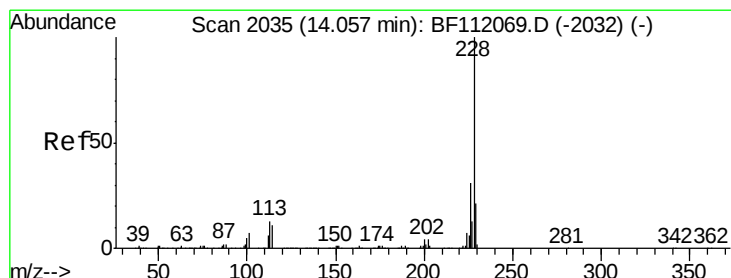
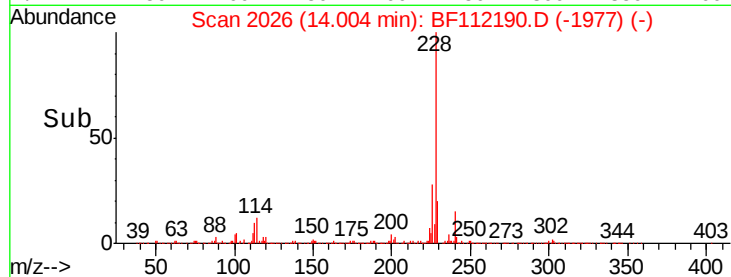
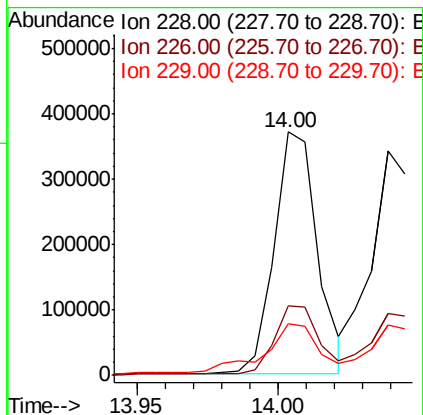
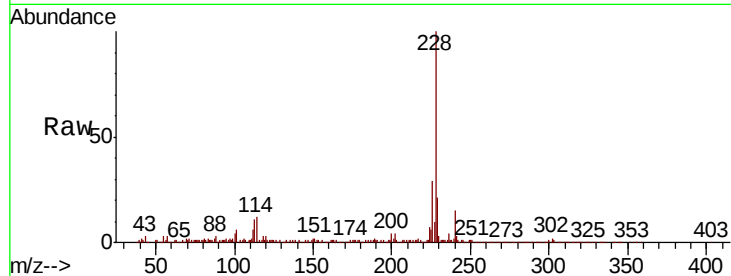




#81
Benzo(a)anthracene
Concen: 11.531 ng
RT: 14.00 min Scan# 2026
Delta R.T. -0.01 min
Lab File: BF112190.D
Acq: 22 Jan 2019 13:47

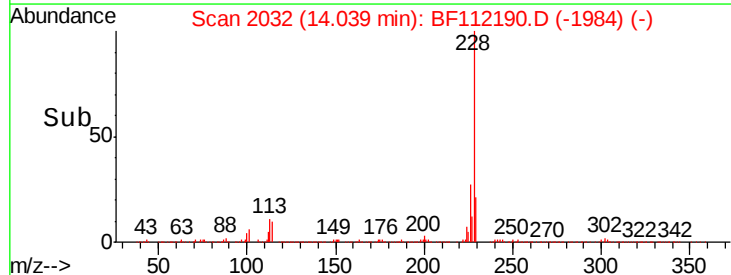
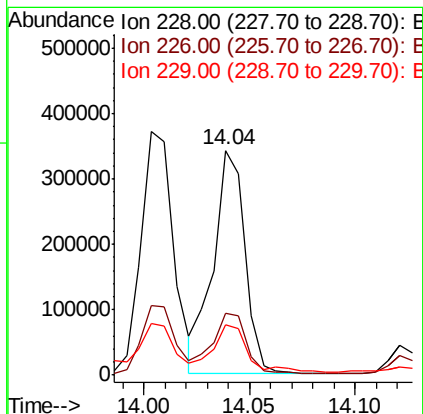
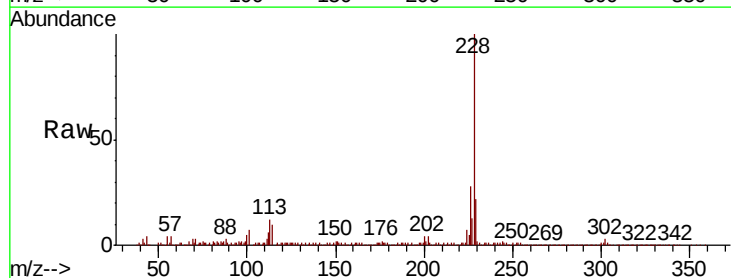
Instrument :
BNA_F
ClientSampleId :
PL-01-011819-B

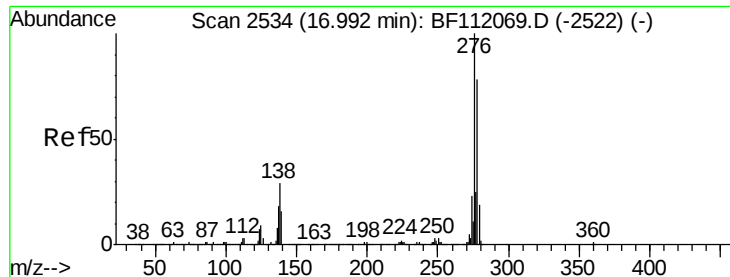
Tot Ion:228 Resp: 392554
Ion Ratio Lower Upper
228 100
226 28.6 22.6 34.0
229 21.4 16.5 24.7



#83
Chrysene
Concen: 11.098 ng
RT: 14.04 min Scan# 2032
Delta R.T. -0.02 min
Lab File: BF112190.D
Acq: 22 Jan 2019 13:47

Tgt Ion:228 Resp: 357484
Ion Ratio Lower Upper
228 100
226 27.7 25.0 37.6
229 22.2 16.6 24.8

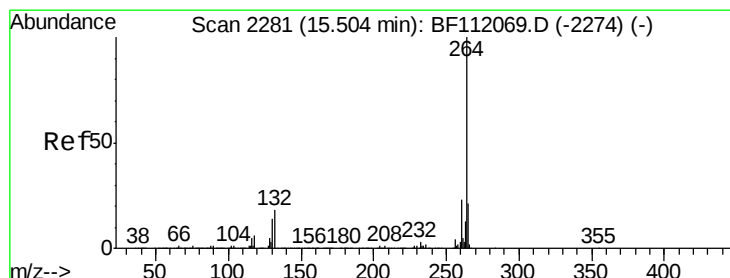
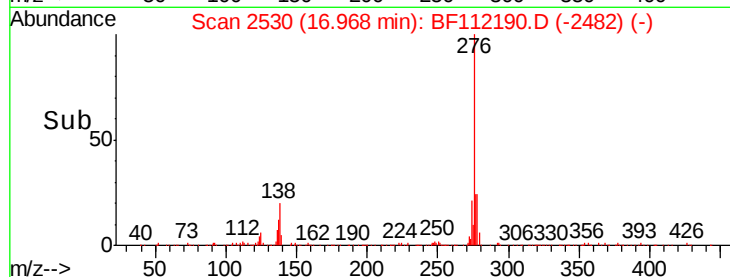
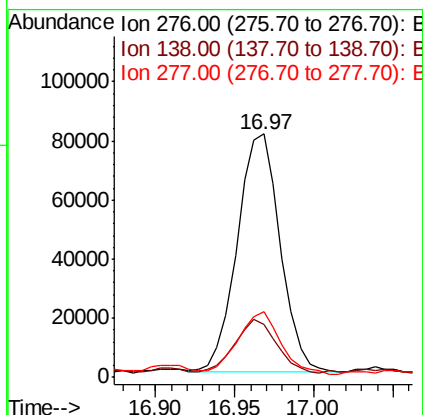
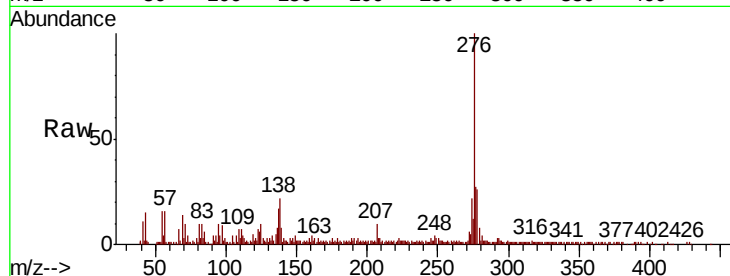




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 5.086 ng
 RT: 16.97 min Scan# 2530
 Delta R.T. -0.02 min
 Lab File: BF112190.D
 Acq: 22 Jan 2019 13:47

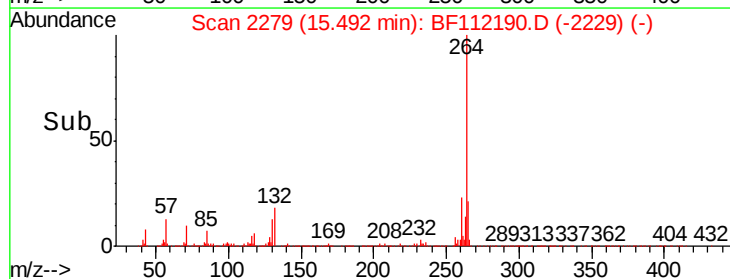
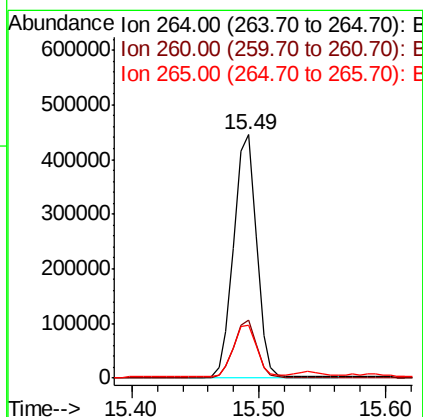
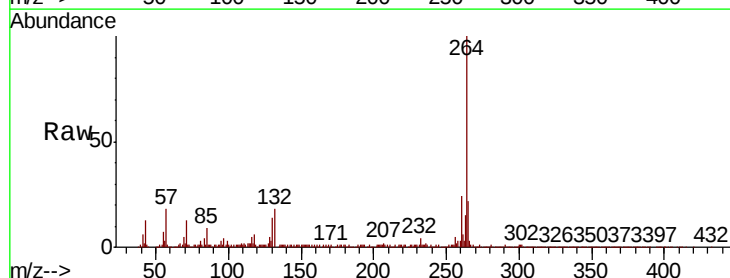
Instrument :
 BNA_F
 ClientSampleId :
 PL-01-011819-B

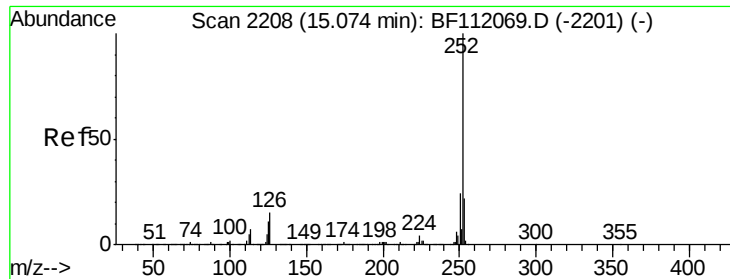
Tot Ion	Ratio	Lower	Upper
276	100		
138	22.5	22.6	34.0#
277	26.4	20.3	30.5



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.49 min Scan# 2279
 Delta R.T. -0.01 min
 Lab File: BF112190.D
 Acq: 22 Jan 2019 13:47

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.7	18.2	27.2
265	21.8	17.0	25.4

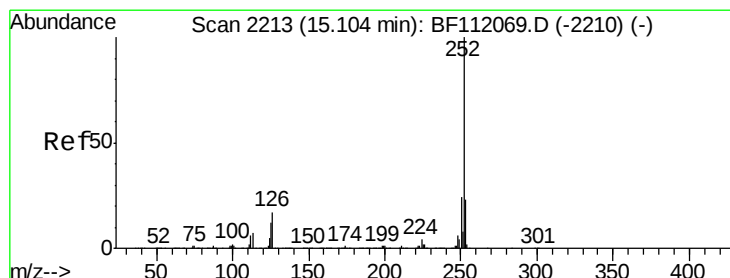
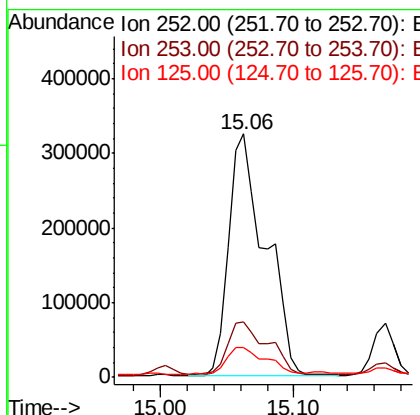
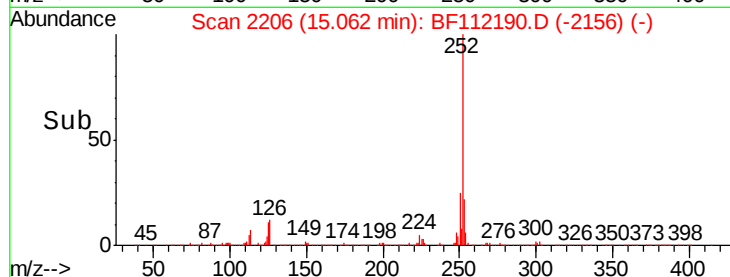
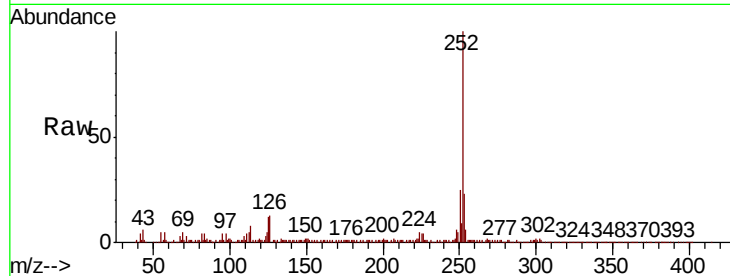




#88
Benzo(b)fluoranthene
Concen: 19.836 ng
RT: 15.06 min Scan# 2206
Delta R.T. -0.01 min
Lab File: BF112190.D
Acq: 22 Jan 2019 13:47

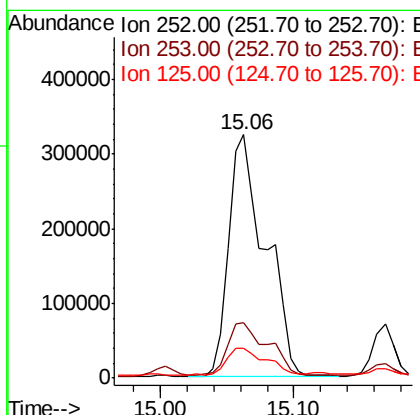
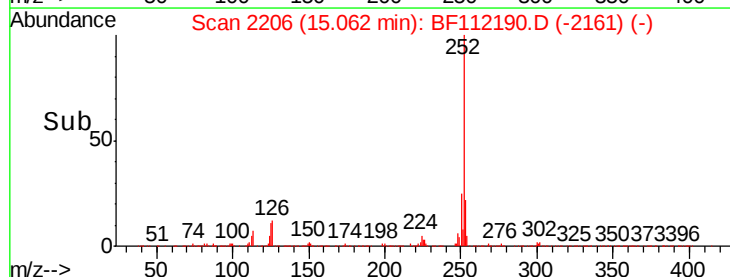
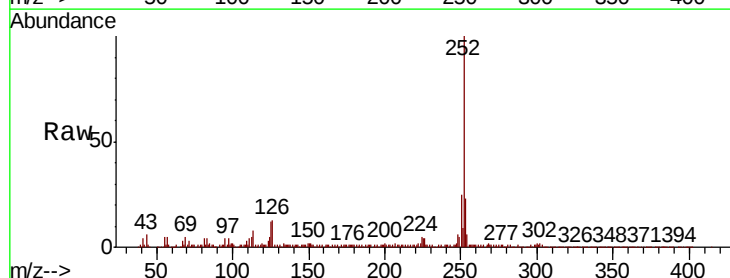
Instrument :
BNA_F
ClientSampleId :
PL-01-011819-B

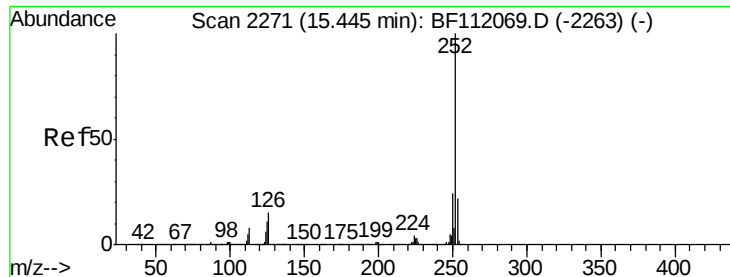
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.0	18.0	27.0
125	12.3	8.7	13.1



#89
Benzo(k)fluoranthene
Concen: 20.495 ng
RT: 15.06 min Scan# 2206
Delta R.T. -0.04 min
Lab File: BF112190.D
Acq: 22 Jan 2019 13:47

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	18.0	27.0
125	12.3	9.1	13.7





#90

Benzo(a)pyrene

Concen: 11.357 ng

RT: 15.43 min Scan# 2268

Delta R.T. -0.01 min

Lab File: BF112190.D

Acq: 22 Jan 2019 13:47

Instrument :

BNA_F

ClientSampleId :

PL-01-011819-B

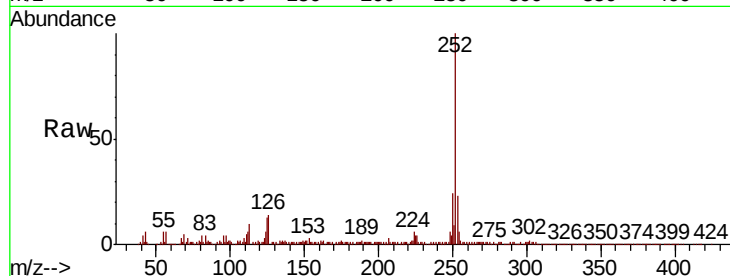
Tot Ion:252 Resp: 328329

Ion Ratio Lower Upper

252 100

253 22.8 17.5 26.3

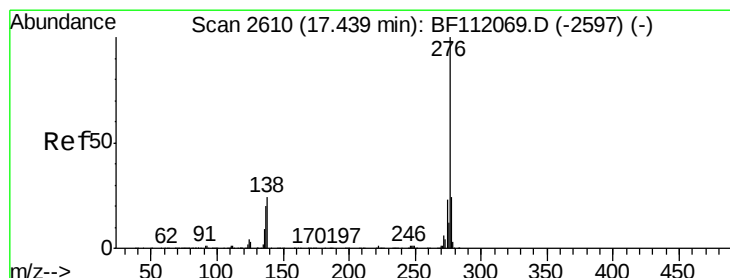
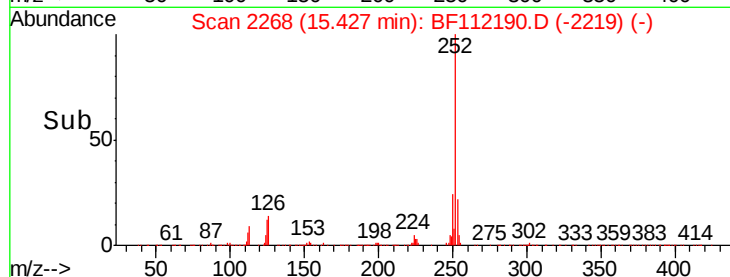
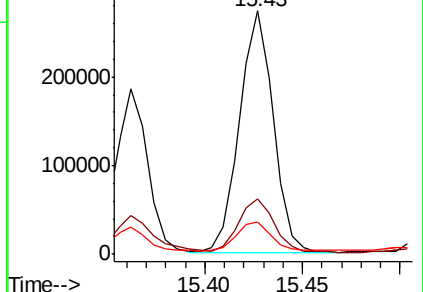
125 13.5 9.0 13.4#



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



#92

Benzo(g,h,i)perylene

Concen: 5.450 ng

RT: 17.41 min Scan# 2605

Delta R.T. -0.02 min

Lab File: BF112190.D

Acq: 22 Jan 2019 13:47

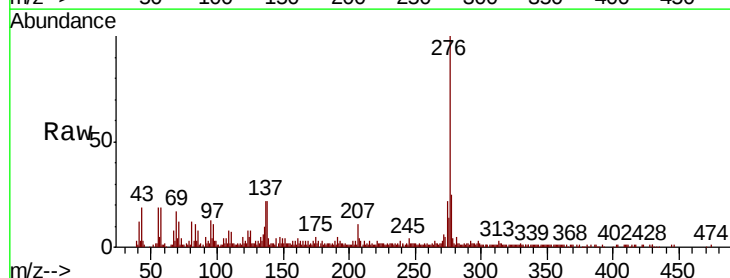
Tgt Ion:276 Resp: 137861

Ion Ratio Lower Upper

276 100

277 25.0 19.4 29.0

138 22.4 19.1 28.7



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

