

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081318\
 Data File : BF108117.D
 Acq On : 13 Aug 2018 15:43
 Operator : JU/SJ
 Sample : J4272-21RE 2X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Aug 13 17:12:29 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 08 12:24:24 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.02	152	275110	20.00	ng	0.01
21) Naphthalene-d8	8.31	136	986797	20.00	ng	0.00
38) Acenaphthene-d10	10.07	164	442009	20.00	ng	0.00
63) Phenanthrene-d10	11.57	188	772468	20.00	ng	0.01
75) Chrysene-d12	14.24	240	629691	20.00	ng	0.02
86) Perylene-d12	15.82	264	425709	20.00	ng	0.04

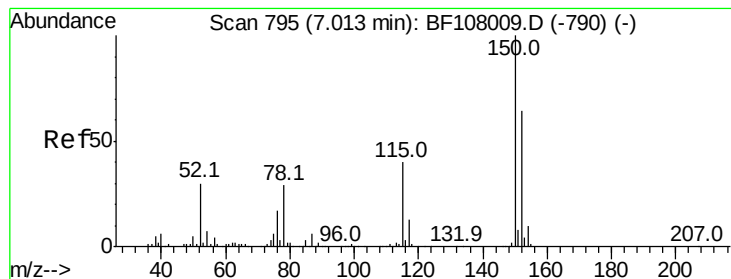
System Monitoring Compounds

5) 2-Fluorophenol	5.64	112	733557	48.27	ng	0.01
7) Phenol-d6	6.64	99	974483	48.26	ng	0.00
23) Nitrobenzene-d5	7.58	82	610961	34.55	ng	0.00
41) 2,4,6-Tribromophenol	10.87	330	199069	45.15	ng	0.00
44) 2-Fluorobiphenyl	9.38	172	1046833	38.02	ng	0.00
78) Terphenyl-d14	13.16	244	958642	38.71	ng	0.01

Target Compounds

						Qvalue
19) n-Nitroso-di-n-propylamine	7.58	70	82632	6.051	ng	# 87
25) Isophorone	7.58	82	610950	18.126	ng	# 64
32) Benzoic acid	8.07	122	139	5.988	ng	# 12
49) Dimethylphthalate	9.77	163	83468	2.711	ng	# 99
50) 2,6-Dinitrotoluene	10.07	165	60483	9.389	ng	# 26
56) 2,4-Dinitrotoluene	10.07	165	60483	7.294	ng	# 23
64) 4,6-Dinitro-2-methylphenol	10.87	198	696	5.572	ng	# 1
70) Phenanthrene	11.60	178	565059	15.509	ng	99
71) Anthracene	11.65	178	193314	5.177	ng	99
74) Fluoranthene	12.80	202	1370291	34.461	ng	96
77) Pyrene	13.03	202	1236489	31.016	ng	99
80) Benzo(a)anthracene	14.22	228	711681	19.694	ng	98
82) Chrysene	14.26	228	541133	16.333	ng	97
85) Indeno(1,2,3-cd)pyrene	17.46	276	199621	6.954	ng	# 88
87) Benzo(b)fluoranthene	15.34	252	770037	30.271	ng	# 92
88) Benzo(k)fluoranthene	15.34	252	770037	32.931	ng	# 93
89) Benzo(a)pyrene	15.74	252	382276	16.782	ng	95
90) Dibenzo(a,h)anthracene	17.47	278	53910	2.860	ng	# 76
91) Benzo(a,h,i)perylene	17.96	276	186952	10.074	ng	# 88

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

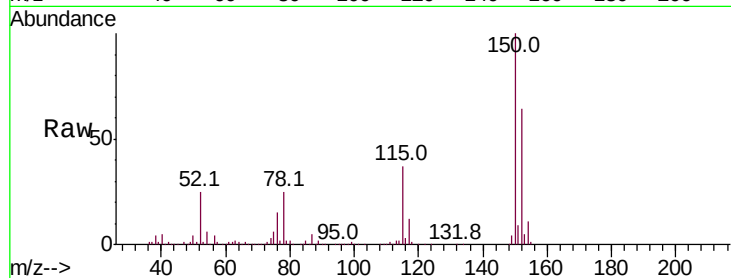


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.02 min Scan# 797
Delta R.T. 0.01 min
Lab File: BF108117.D
Acq: 13 Aug 2018 15:43

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.2	124.6	186.8
115	57.2	50.1	75.1

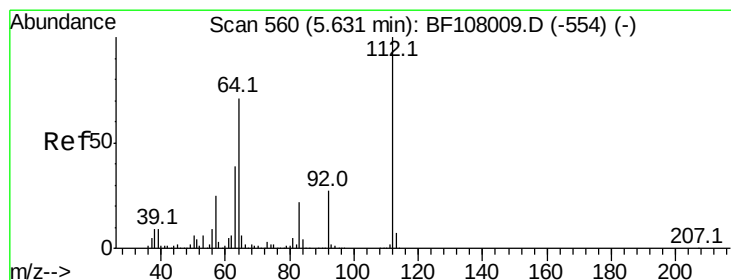
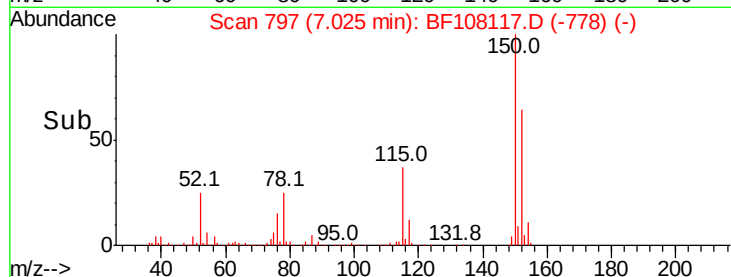
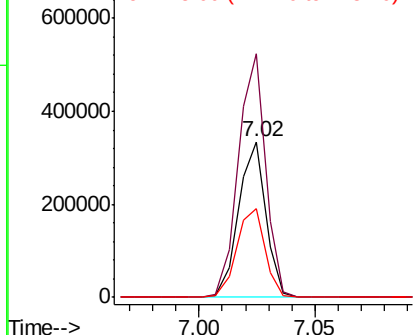


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

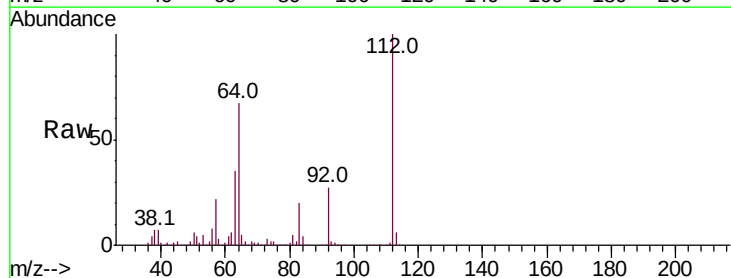
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 48.274 ng
RT: 5.64 min Scan# 562
Delta R.T. 0.01 min
Lab File: BF108117.D
Acq: 13 Aug 2018 15:43

Tgt Ion	Ratio	Lower	Upper
112	100		
64	67.1	47.9	71.9
63	35.2	23.7	35.5

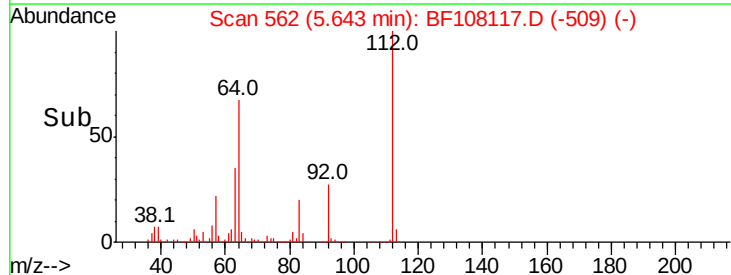
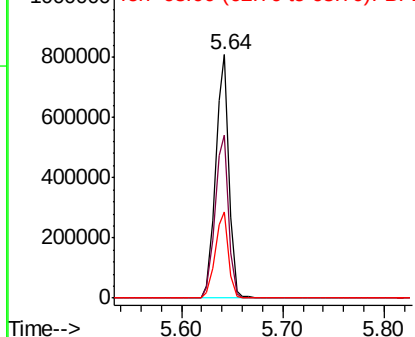


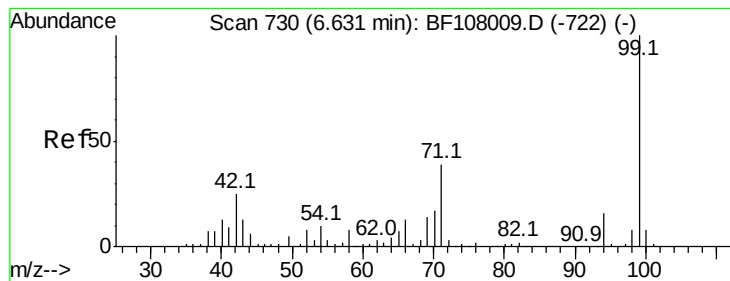
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 48.259 ng

RT: 6.64 min Scan# 731

Delta R.T. 0.01 min

Lab File: BF108117.D

Acq: 13 Aug 2018 15:43

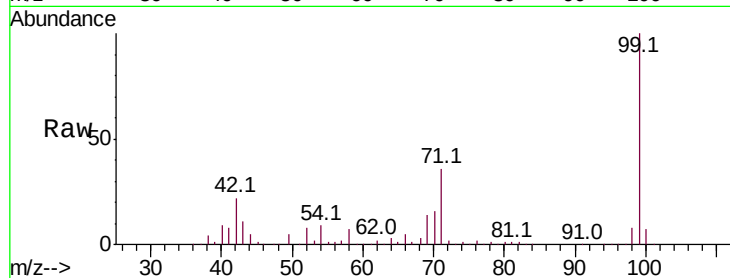
Instrument :

BNA_F

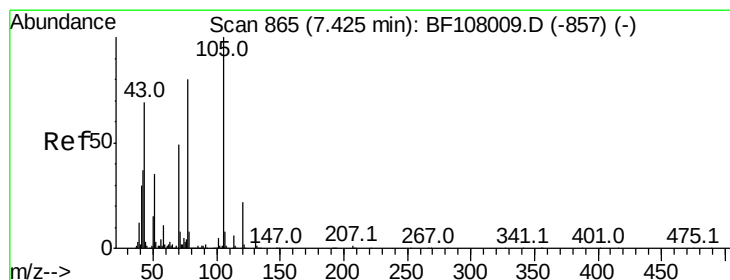
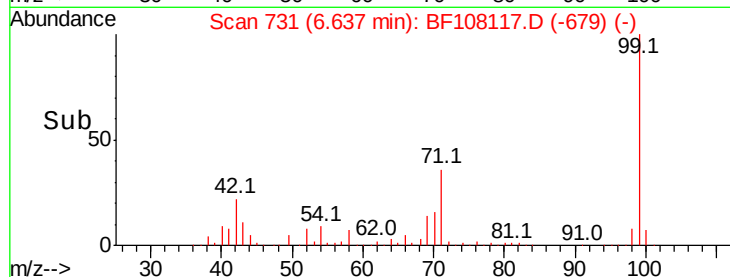
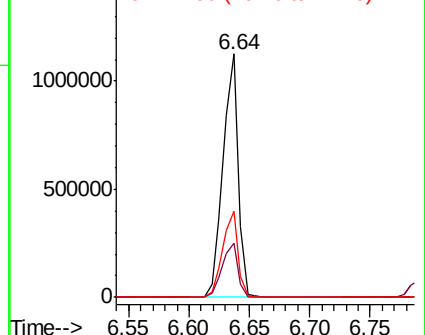
ClientSampled :

Tot Ion: 99 Resp: 974483

Ion	Ratio	Lower	Upper
99	100		
42	22.4	14.5	21.7#
71	35.6	25.4	38.0



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



#19

n-Nitroso-di-n-propylamine

Concen: 6.051 ng

RT: 7.58 min Scan# 891

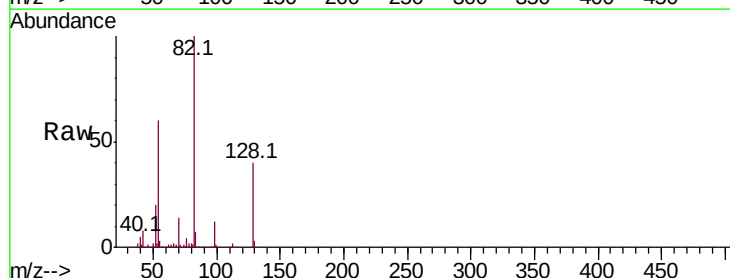
Delta R.T. 0.15 min

Lab File: BF108117.D

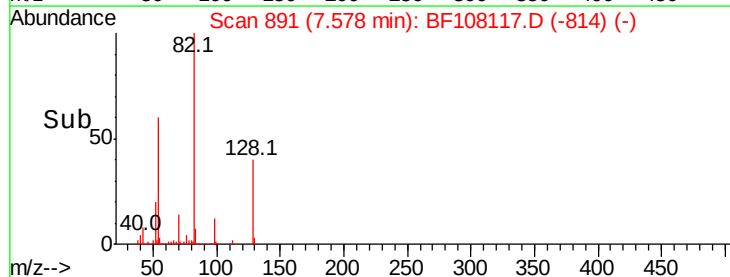
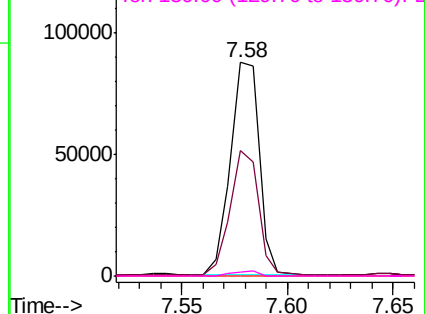
Acq: 13 Aug 2018 15:43

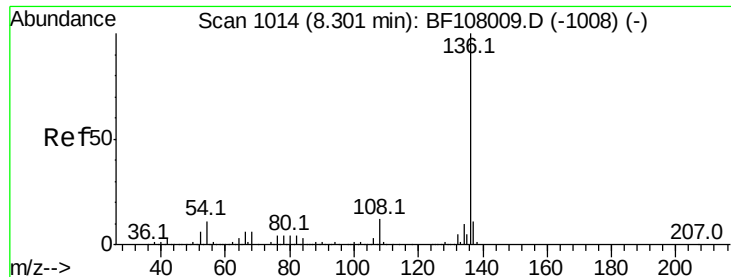
Tgt Ion: 70 Resp: 82632

Ion	Ratio	Lower	Upper
70	100		
42	58.7	47.5	71.3
101	0.0	7.4	11.2#
130	2.0	16.6	25.0#



Abundance Ion 70.00 (69.70 to 70.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 101.00 (100.70 to 101.70): BF1
Ion 130.00 (129.70 to 130.70): BF1

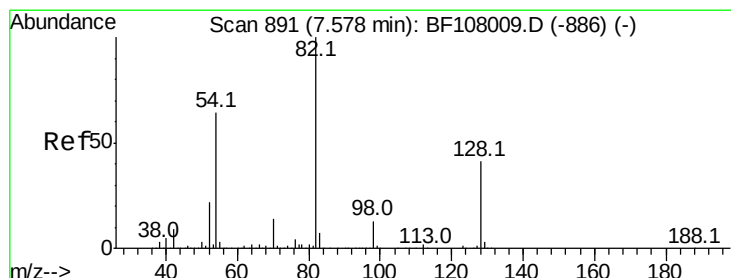
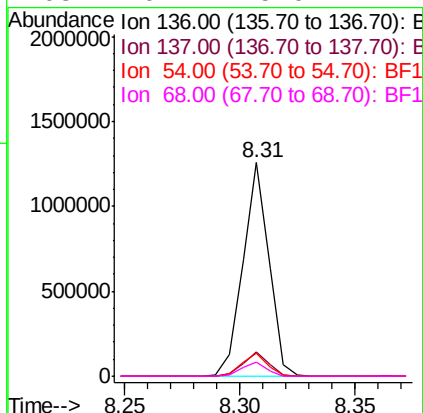
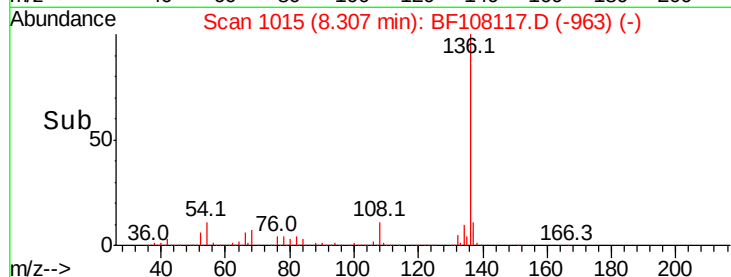
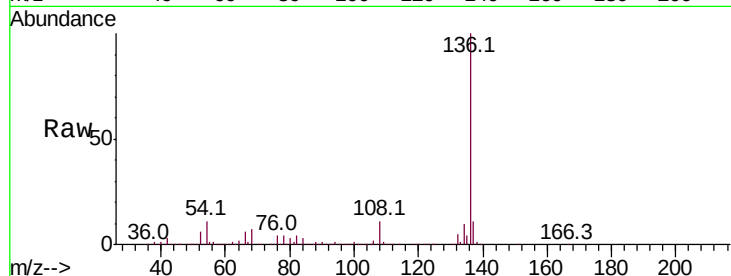




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.31 min Scan# 1015
Delta R.T. 0.01 min
Lab File: BF108117.D
Acq: 13 Aug 2018 15:43

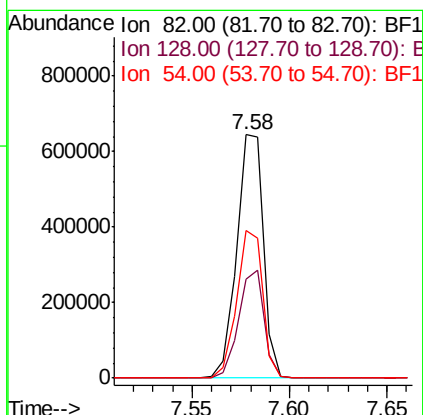
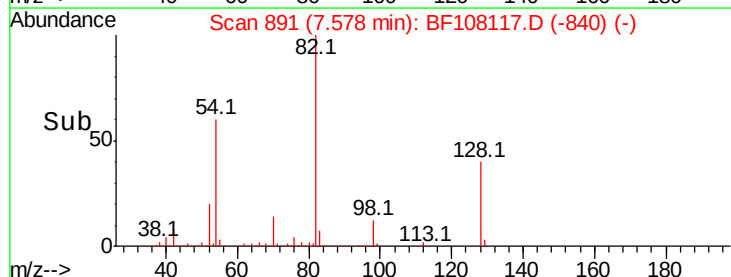
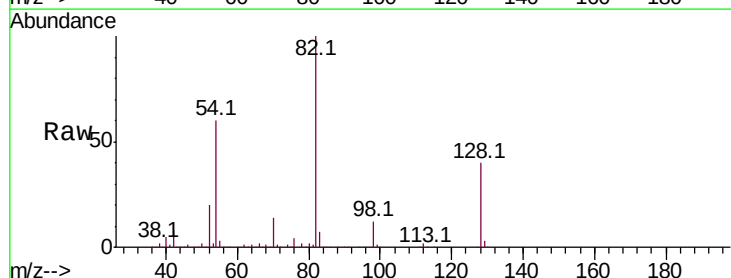
Instrument :
BNA_F
ClientSampleId :

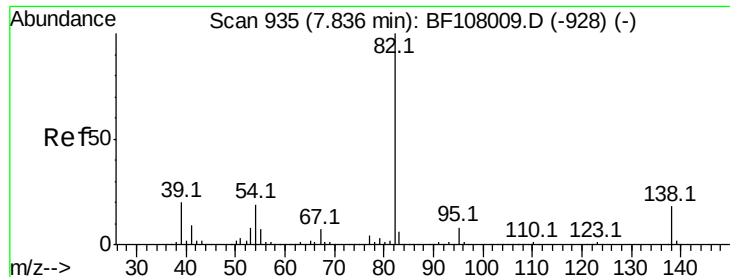
Tot Ion:136	Resp:	986797
Ion Ratio	Lower	Upper
136	100	
137	11.4	8.9 13.3
54	10.5	6.6 9.8#
68	6.7	5.0 7.4



#23
Nitrobenzene-d5
Concen: 34.549 ng
RT: 7.58 min Scan# 891
Delta R.T. 0.00 min
Lab File: BF108117.D
Acq: 13 Aug 2018 15:43

Tgt Ion: 82	Resp:	610961
Ion Ratio	Lower	Upper
82	100	
128	40.4	36.1 54.1
54	60.4	41.4 62.2





#25

Isophorone

Concen: 18.126 ng

RT: 7.58 min Scan# 891

Delta R.T. -0.26 min

Lab File: BF108117.D

Acq: 13 Aug 2018 15:43

Instrument :

BNA_F

ClientSampleId :

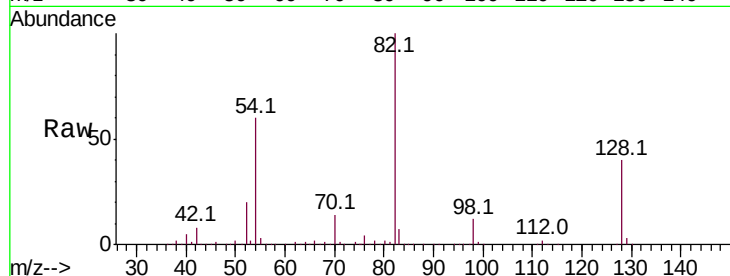
Tot Ion: 82 Resp: 610950

Ion Ratio Lower Upper

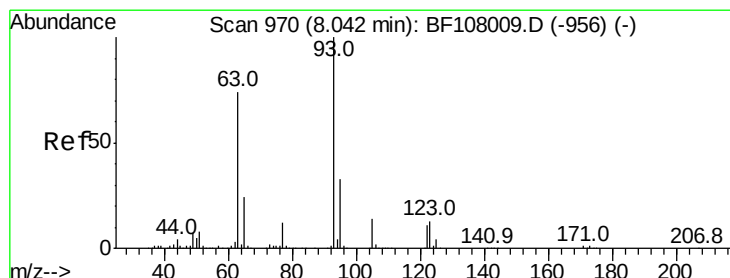
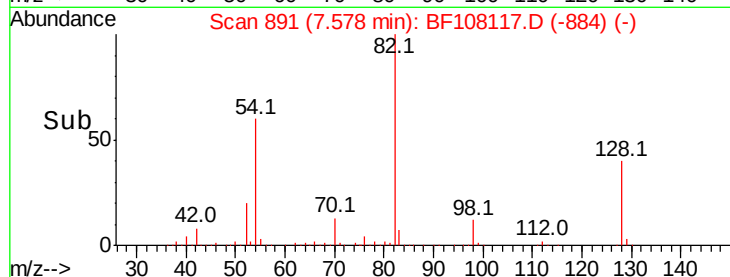
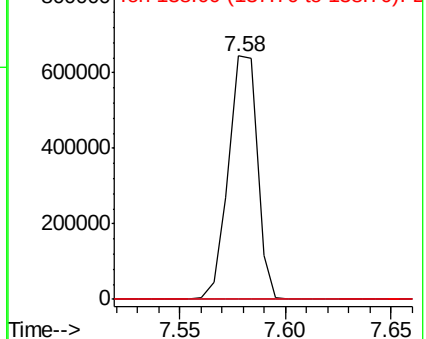
82 100

95 0.1 5.2 7.8#

138 0.0 14.9 22.3#



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: 5.988 ng

RT: 8.07 min Scan# 975

Delta R.T. 0.03 min

Lab File: BF108117.D

Acq: 13 Aug 2018 15:43

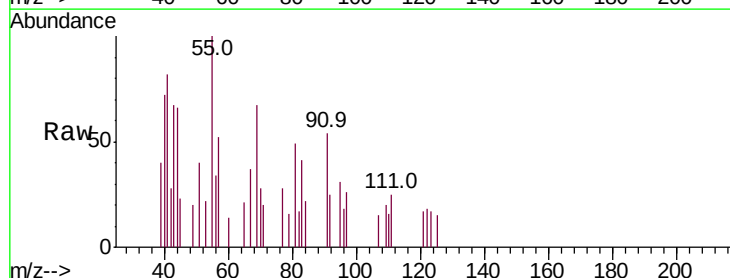
Tgt Ion: 122 Resp: 139

Ion Ratio Lower Upper

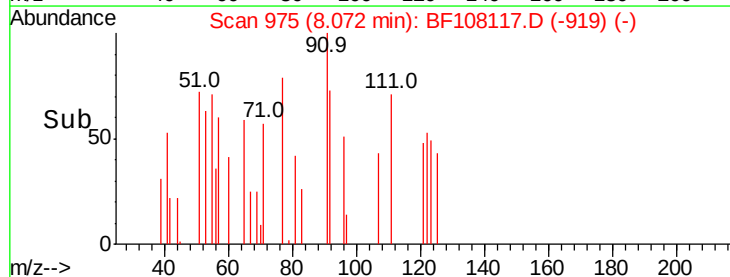
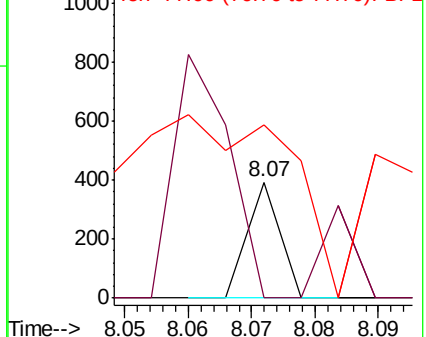
122 100

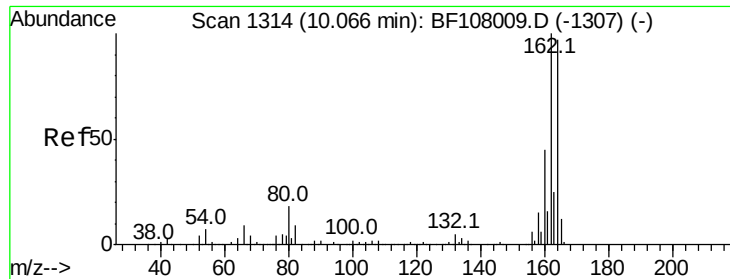
105 0.0 101.1 141.1#

77 149.1 70.7 110.7#



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





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.07 min Scan# 1315

Delta R.T. 0.01 min

Lab File: BF108117.D

Acq: 13 Aug 2018 15:43

Instrument :

BNA_F

ClientSampleId :

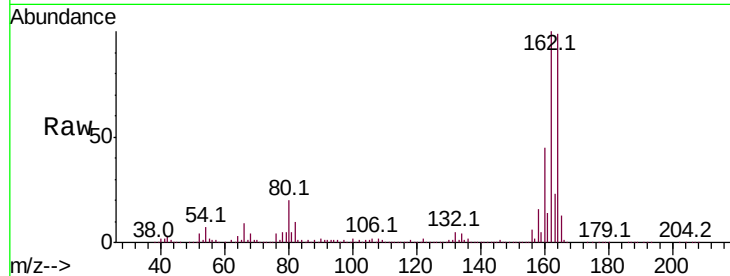
Tot Ion:164 Resp: 442009

Ion Ratio Lower Upper

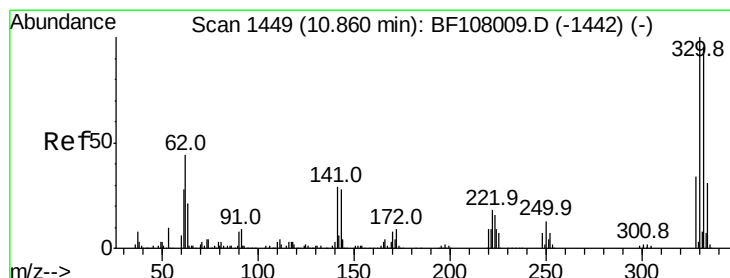
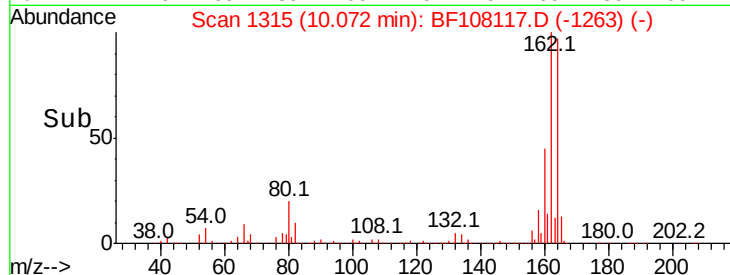
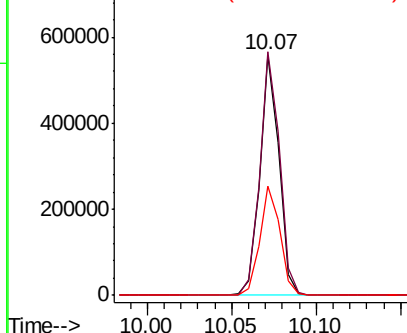
164 100

162 101.4 86.1 129.1

160 45.8 38.3 57.5



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



#41

2,4,6-Tribromophenol

Concen: 45.151 ng

RT: 10.87 min Scan# 1450

Delta R.T. 0.01 min

Lab File: BF108117.D

Acq: 13 Aug 2018 15:43

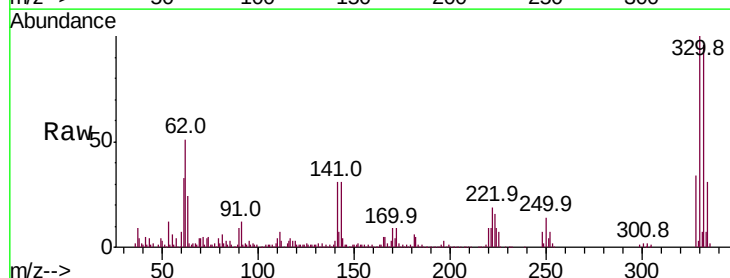
Tgt Ion:330 Resp: 199069

Ion Ratio Lower Upper

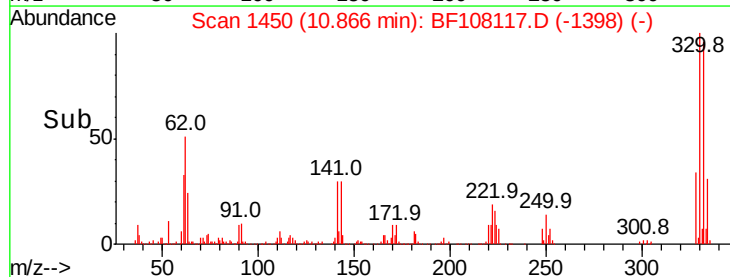
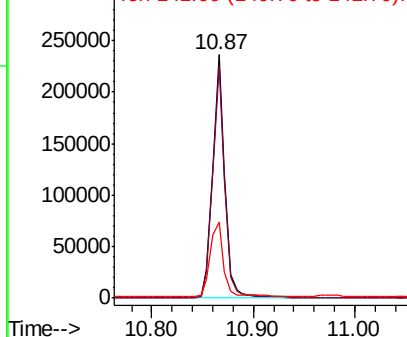
330 100

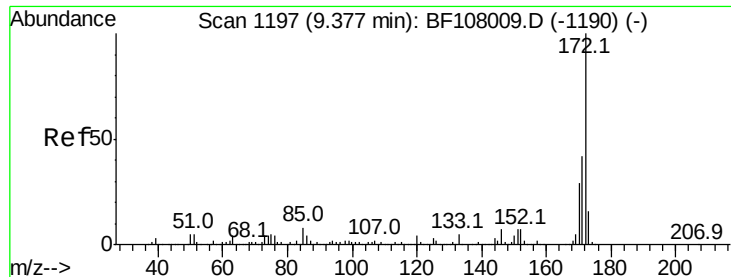
332 95.9 77.0 115.6

141 35.2 29.9 44.9



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

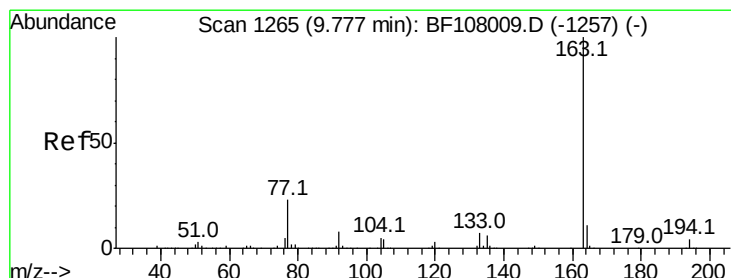
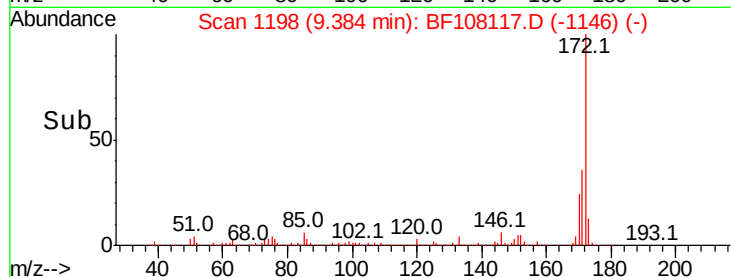
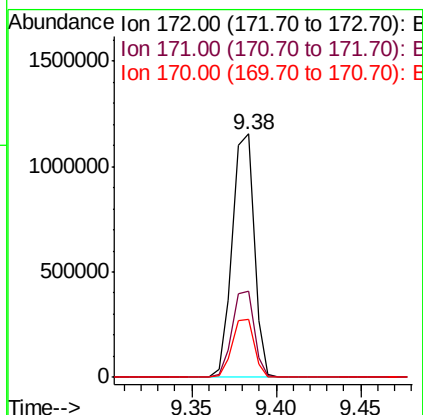
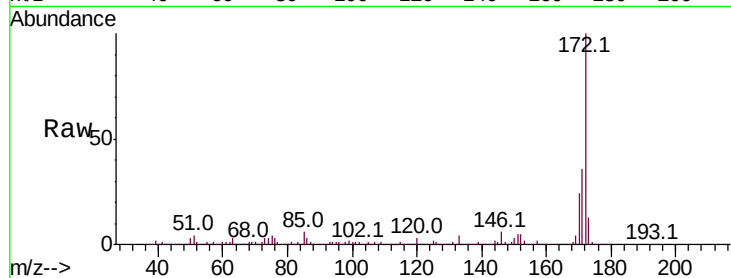




#44
2-Fluorobiphenyl
Concen: 38.023 ng
RT: 9.38 min Scan# 1198
Delta R.T. 0.01 min
Lab File: BF108117.D
Acq: 13 Aug 2018 15:43

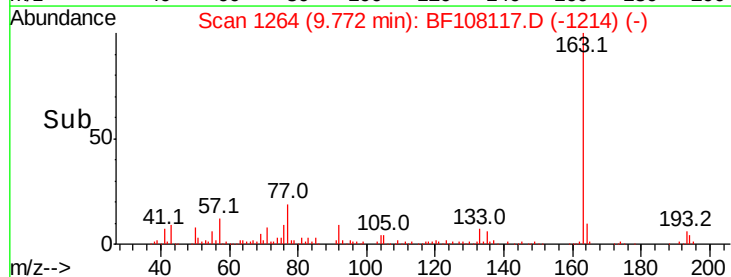
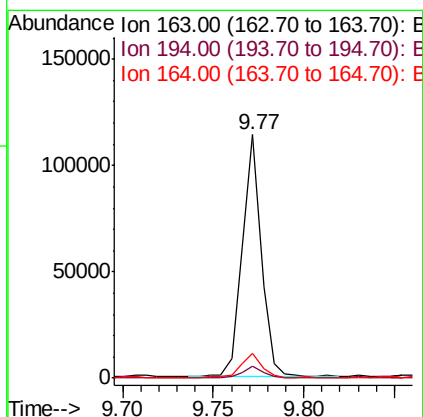
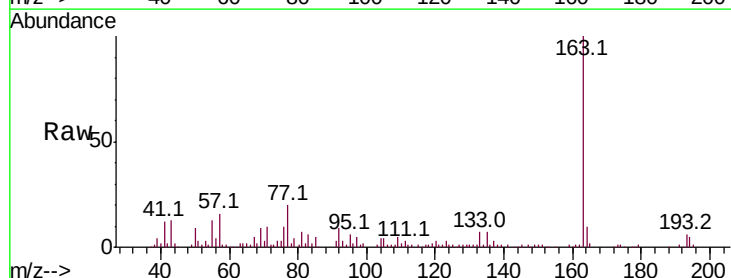
Instrument :
BNA_F
ClientSampleId :

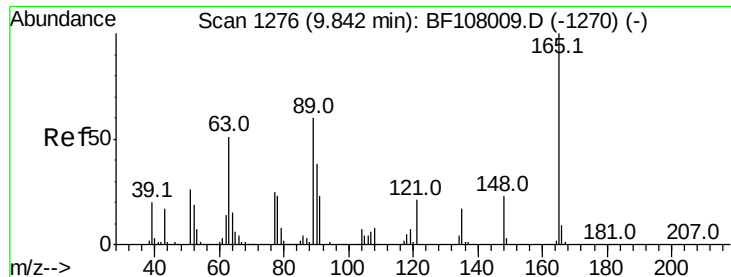
Tot Ion:172 Resp: 1046833
Ion Ratio Lower Upper
172 100
171 35.6 29.7 44.5
170 24.0 19.6 29.4



#49
Dimethylphthalate
Concen: 2.711 ng
RT: 9.77 min Scan# 1264
Delta R.T. -0.01 min
Lab File: BF108117.D
Acq: 13 Aug 2018 15:43

Tgt Ion:163 Resp: 83468
Ion Ratio Lower Upper
163 100
194 4.7 2.7 4.1#
164 10.3 8.2 12.2

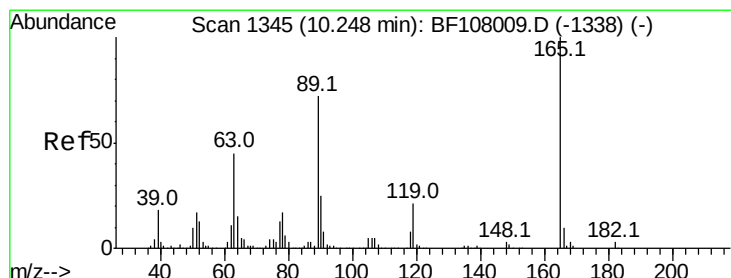
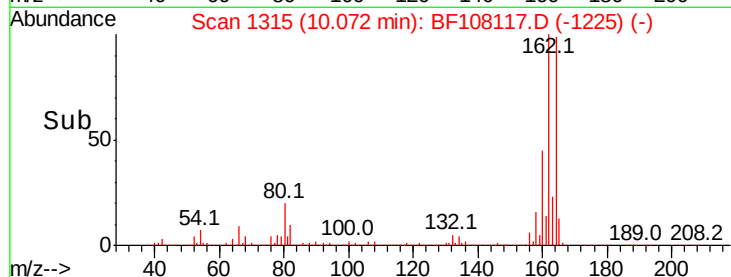
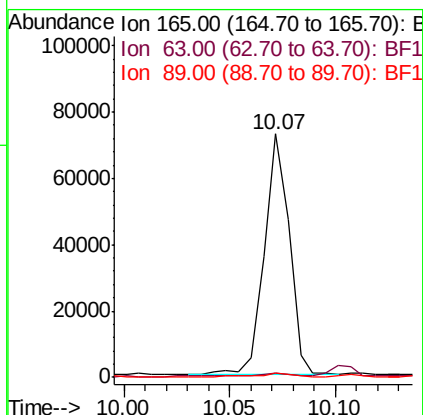
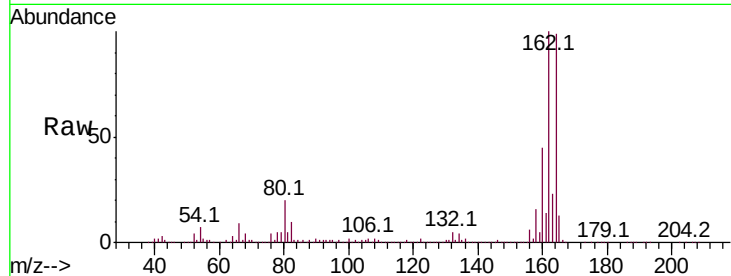




#50
 2,6-Dinitrotoluene
 Concen: 9.389 ng
 RT: 10.07 min Scan# 1315
 Delta R.T. 0.23 min
 Lab File: BF108117.D
 Acq: 13 Aug 2018 15:43

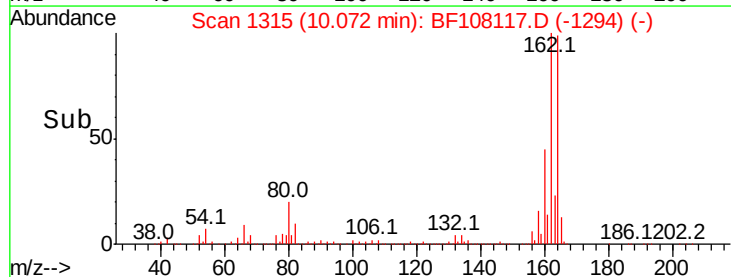
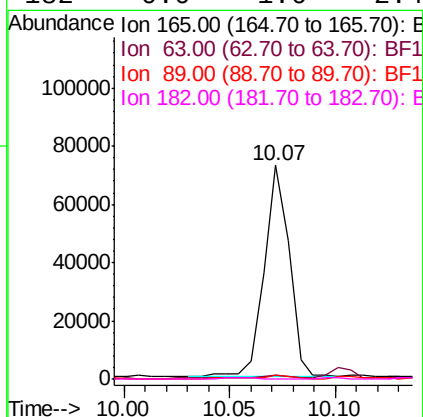
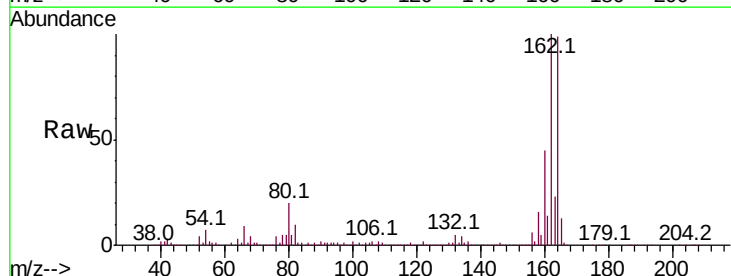
Instrument :
 BNA_F
 ClientSampleId :

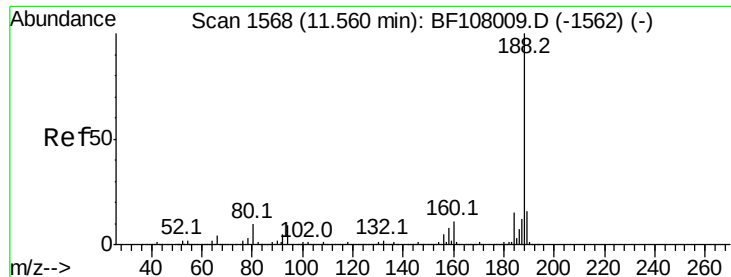
Tot Ion	Ratio	Lower	Upper
165	100		
63	1.6	44.7	67.1#
89	1.5	44.0	66.0#



#56
 2,4-Dinitrotoluene
 Concen: 7.294 ng
 RT: 10.07 min Scan# 1315
 Delta R.T. -0.18 min
 Lab File: BF108117.D
 Acq: 13 Aug 2018 15:43

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.6	36.4	54.6#
89	1.5	57.8	86.6#
182	0.0	1.6	2.4#

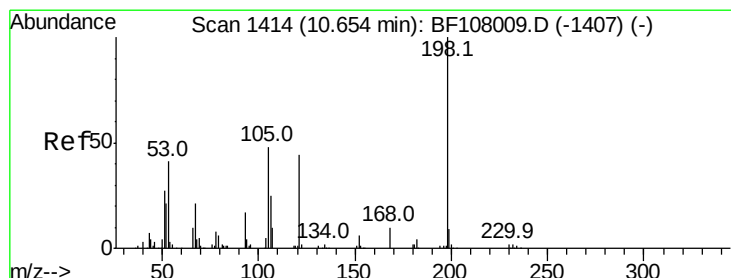
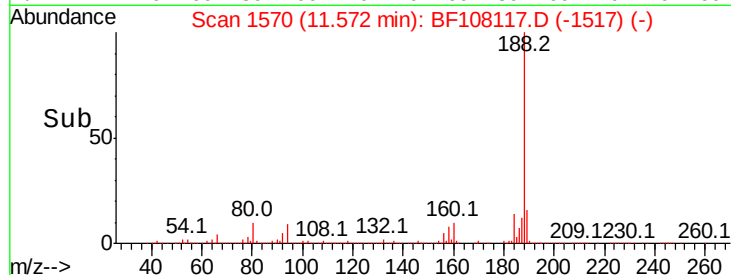
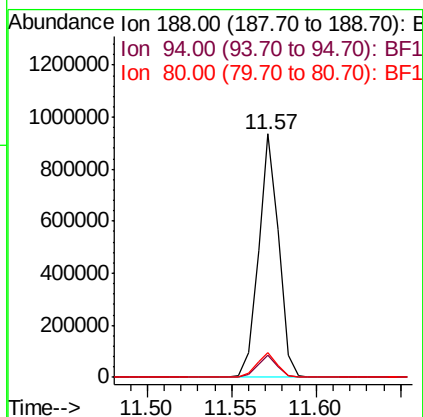
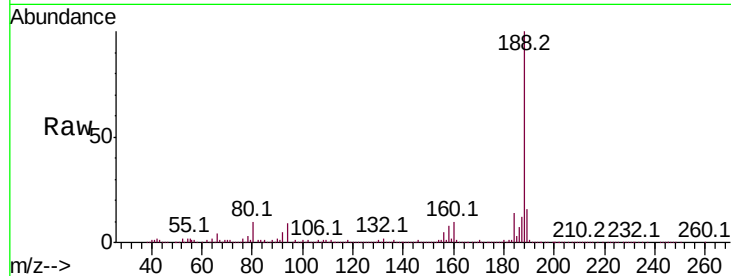




#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.57 min Scan# 1570
 Delta R.T. 0.01 min
 Lab File: BF108117.D
 Acq: 13 Aug 2018 15:43

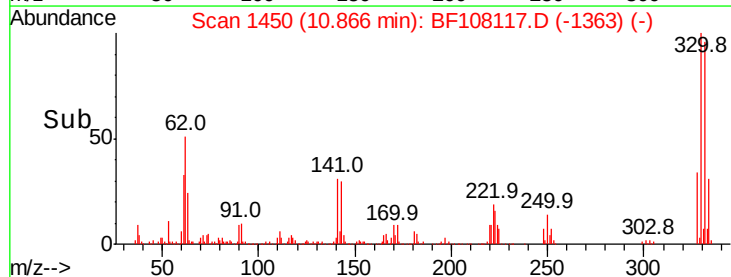
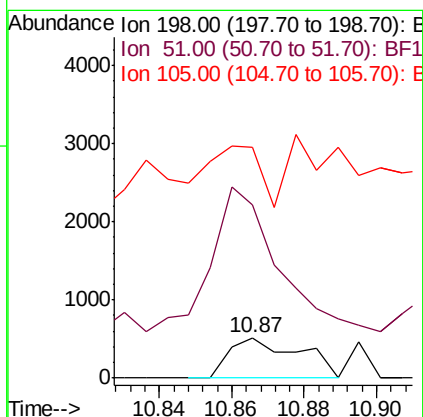
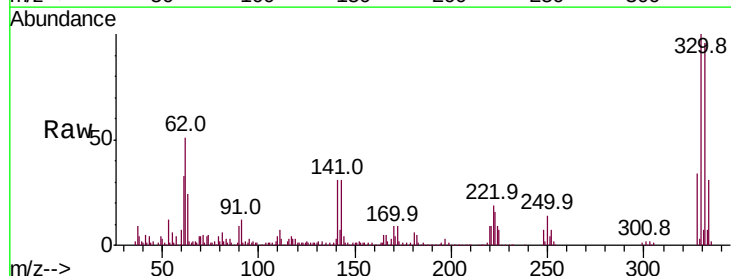
Instrument :
 BNA_F
 ClientSampleId :

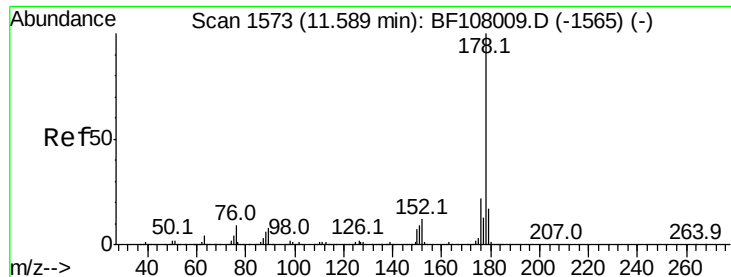
Tot Ion:188 Resp: 772468
 Ion Ratio Lower Upper
 188 100
 94 9.1 8.5 12.7
 80 10.0 9.2 13.8



#64
 4,6-Dinitro-2-methylphenol
 Concen: 5.572 ng
 RT: 10.87 min Scan# 1450
 Delta R.T. 0.21 min
 Lab File: BF108117.D
 Acq: 13 Aug 2018 15:43

Tgt Ion:198 Resp: 696
 Ion Ratio Lower Upper
 198 100
 51 428.9 37.7 77.7#
 105 572.5 36.3 76.3#





#70

Phenanthrene

Concen: 15.509 ng

RT: 11.60 min Scan# 1574

Delta R.T. 0.01 min

Lab File: BF108117.D

Acq: 13 Aug 2018 15:43

Instrument :

BNA_F

ClientSampled :

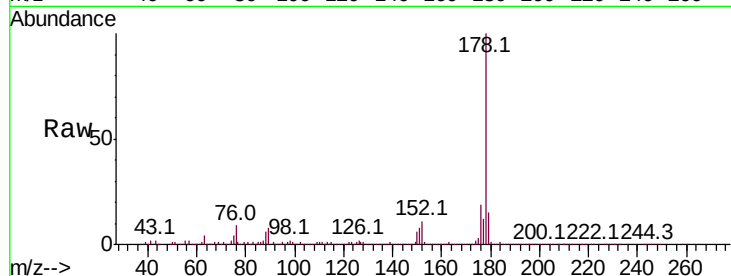
Tot Ion:178 Resp: 565059

Ion Ratio Lower Upper

178 100

176 19.4 15.8 23.8

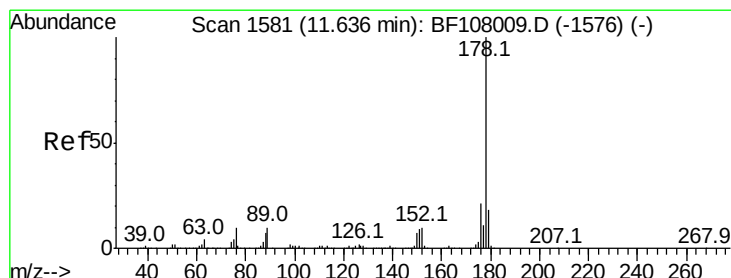
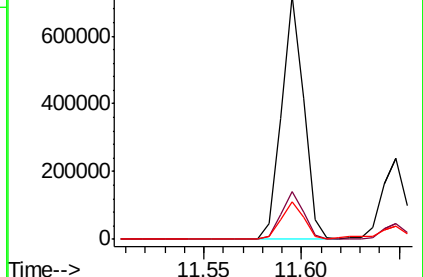
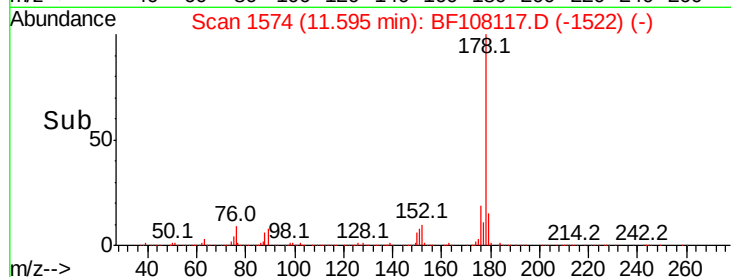
179 15.4 13.0 19.6



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



#71

Anthracene

Concen: 5.177 ng

RT: 11.65 min Scan# 1583

Delta R.T. 0.01 min

Lab File: BF108117.D

Acq: 13 Aug 2018 15:43

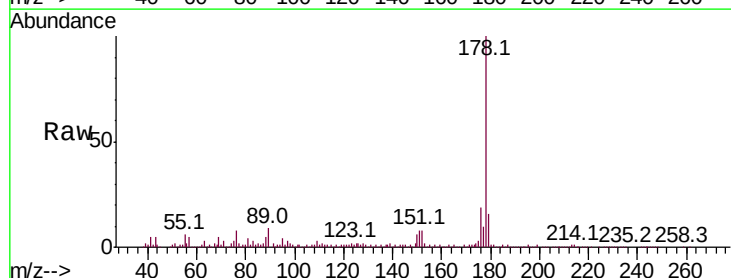
Tgt Ion:178 Resp: 193314

Ion Ratio Lower Upper

178 100

176 18.7 15.4 23.2

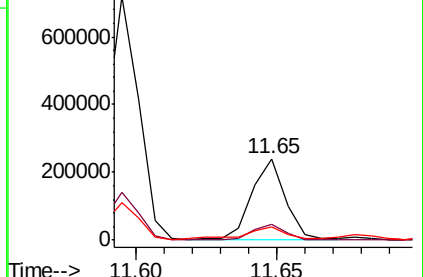
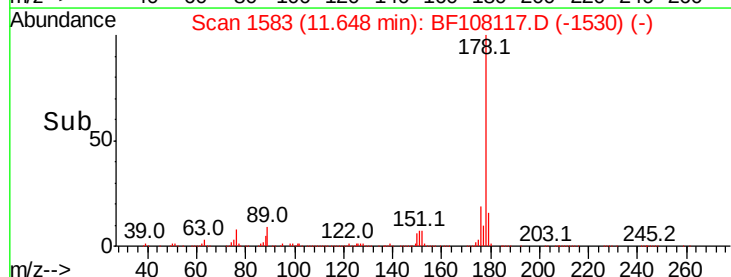
179 16.2 12.6 19.0

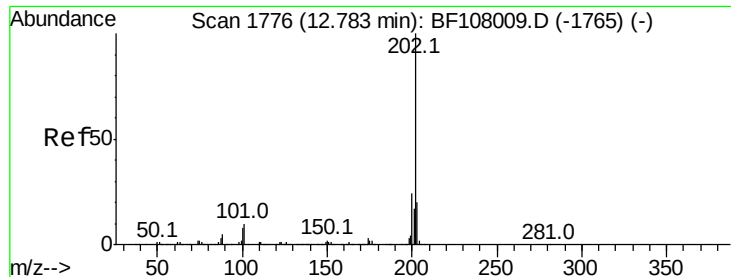


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 34.461 ng

RT: 12.80 min Scan# 1778

Delta R.T. 0.01 min

Lab File: BF108117.D

Acq: 13 Aug 2018 15:43

Instrument :

BNA_F

ClientSampleId :

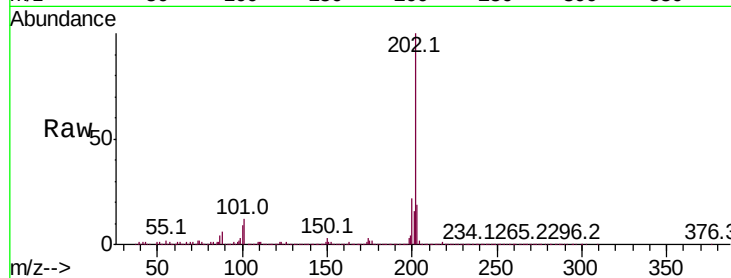
Tot Ion:202 Resp: 1370291

Ion Ratio Lower Upper

202 100

101 11.6 0.0 34.1

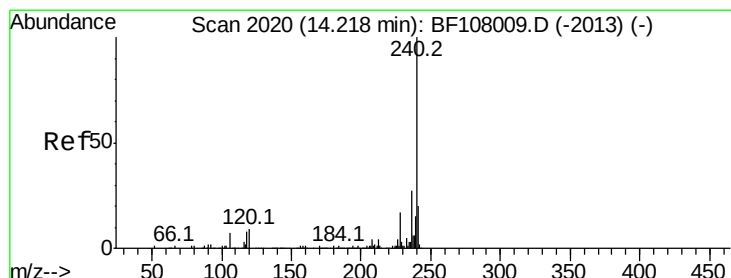
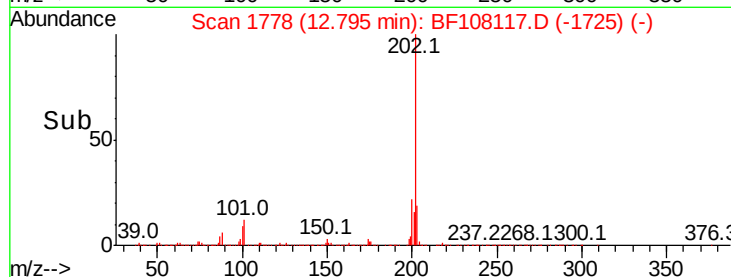
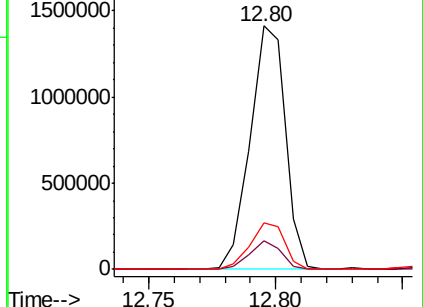
203 19.0 0.0 38.1



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



#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.24 min Scan# 2023

Delta R.T. 0.02 min

Lab File: BF108117.D

Acq: 13 Aug 2018 15:43

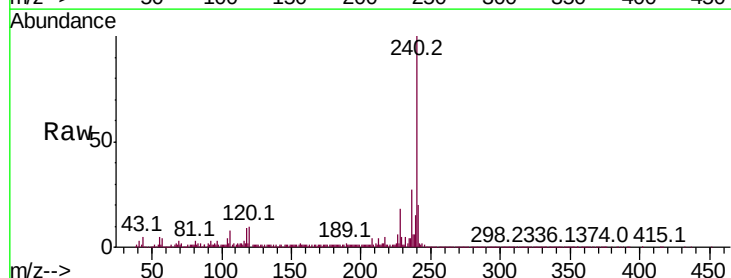
Tgt Ion:240 Resp: 629691

Ion Ratio Lower Upper

240 100

120 10.4 9.5 14.3

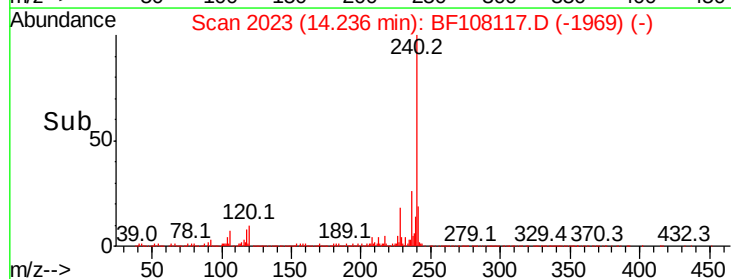
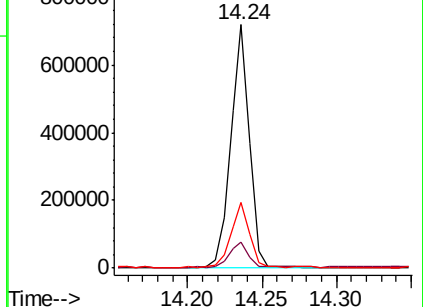
236 26.8 20.7 31.1

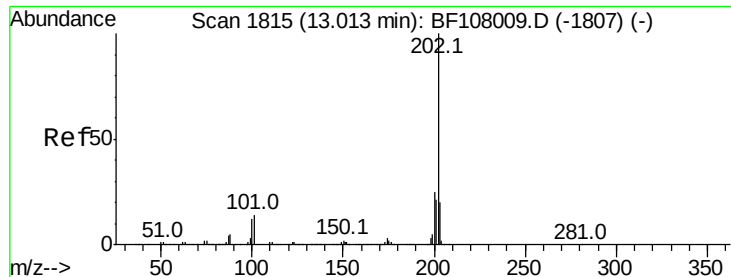


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 31.016 ng

RT: 13.03 min Scan# 1818

Delta R.T. 0.02 min

Lab File: BF108117.D

Acq: 13 Aug 2018 15:43

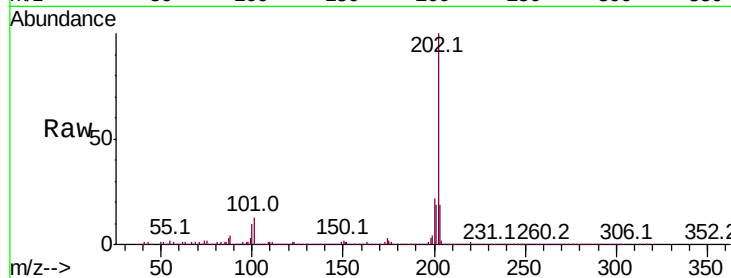
Instrument :

BNA_F

ClientSampleId :

Tot Ion:202 Resp: 1236489

Ion	Ratio	Lower	Upper
202	100		
200	22.1	17.4	26.2
203	18.8	14.3	21.5

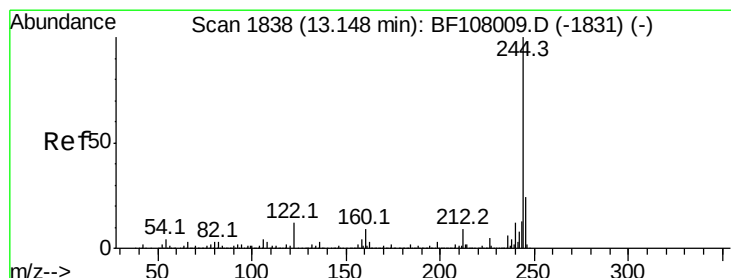
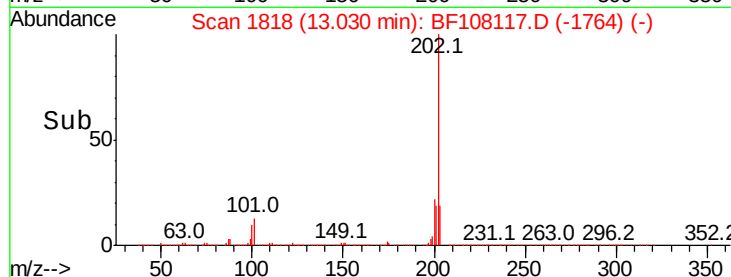
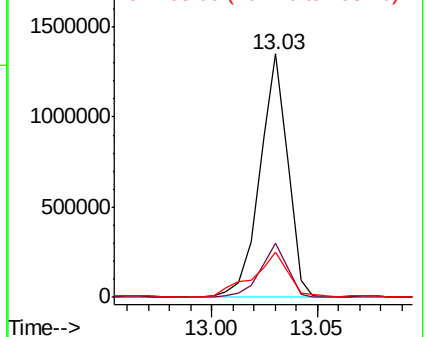


Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 38.708 ng

RT: 13.16 min Scan# 1840

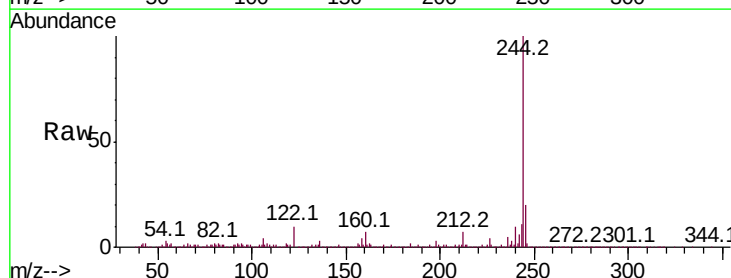
Delta R.T. 0.01 min

Lab File: BF108117.D

Acq: 13 Aug 2018 15:43

Tgt Ion:244 Resp: 958642

Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.4	8.0
122	9.8	11.0	16.4

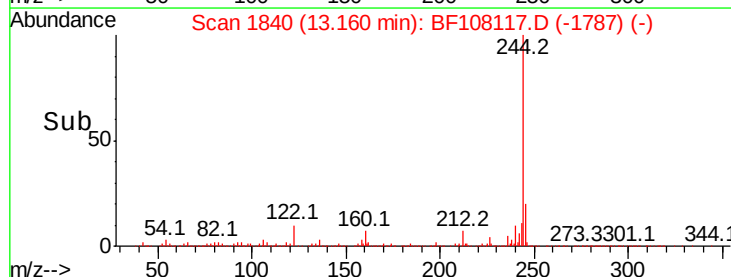
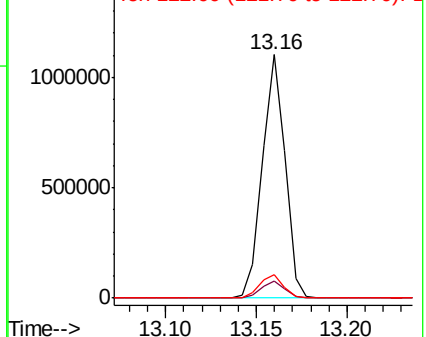


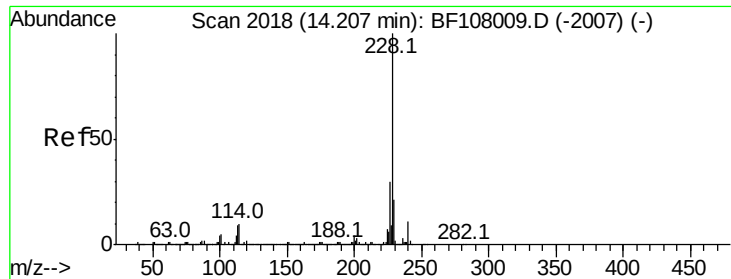
Abundance

Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 19.694 ng

RT: 14.22 min Scan# 2021

Delta R.T. 0.02 min

Lab File: BF108117.D

Acq: 13 Aug 2018 15:43

Instrument :

BNA_F

ClientSampleId :

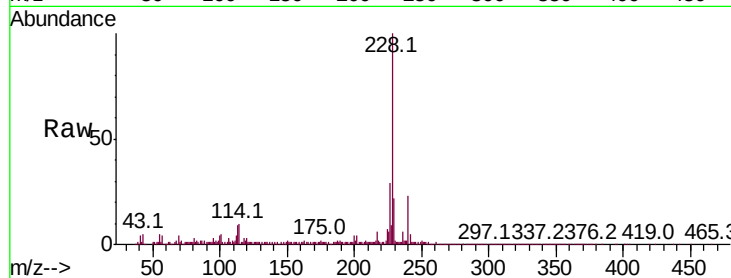
Tot Ion:228 Resp: 711681

Ion Ratio Lower Upper

228 100

226 28.7 22.6 33.8

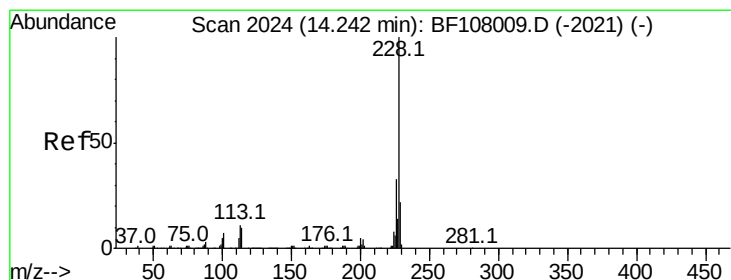
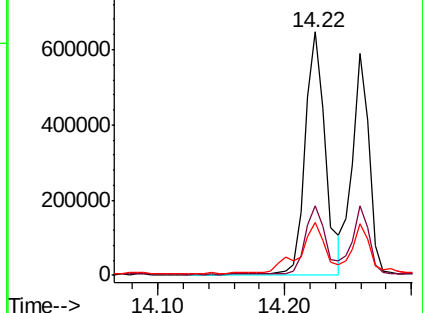
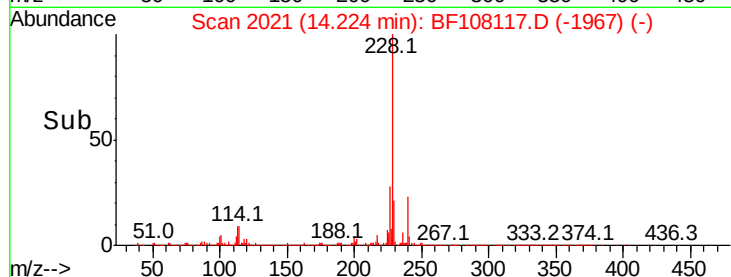
229 21.5 15.8 23.6



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

Chrysene

Concen: 16.333 ng

RT: 14.26 min Scan# 2027

Delta R.T. 0.02 min

Lab File: BF108117.D

Acq: 13 Aug 2018 15:43

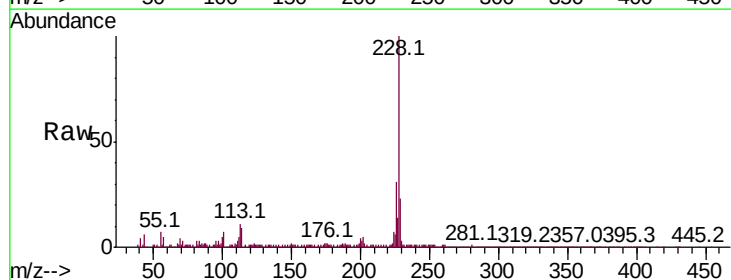
Tgt Ion:228 Resp: 541133

Ion Ratio Lower Upper

228 100

226 31.3 25.0 37.6

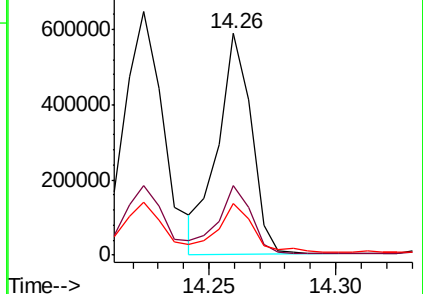
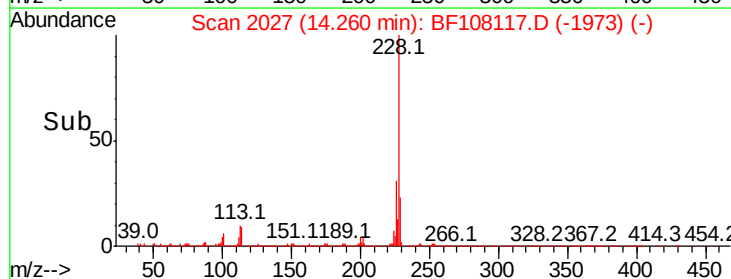
229 23.4 16.2 24.4

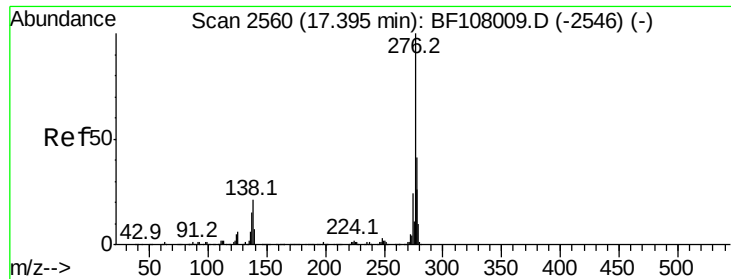


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#85

Indeno(1,2,3-cd)pyrene

Concen: 6.954 ng

RT: 17.46 min Scan# 2571

Delta R.T. 0.06 min

Lab File: BF108117.D

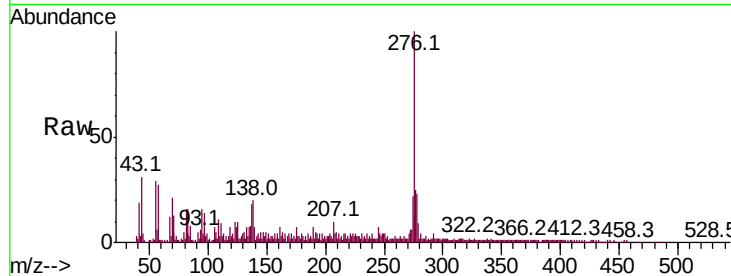
Acq: 13 Aug 2018 15:43

Instrument :

BNA_F

ClientSampleId :

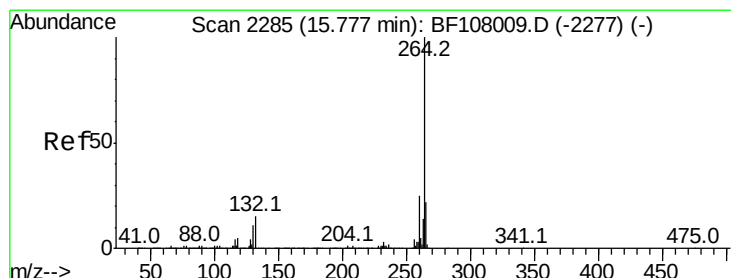
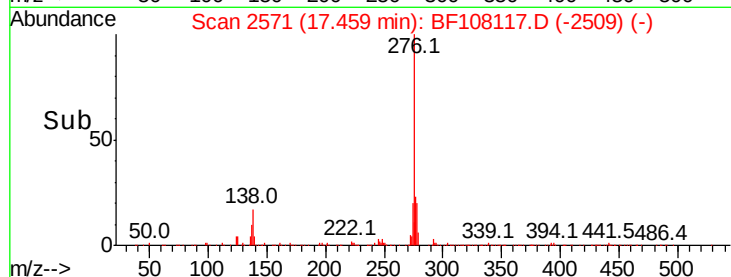
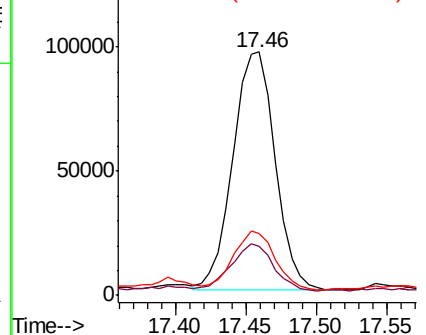
Tot Ion:276	Resp:	199621
Ion Ratio	Lower	Upper
276	100	
138	19.9	25.0 37.6#
277	24.3	20.1 30.1



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



#86

Perylene-d12

Concen: 20.000 ng

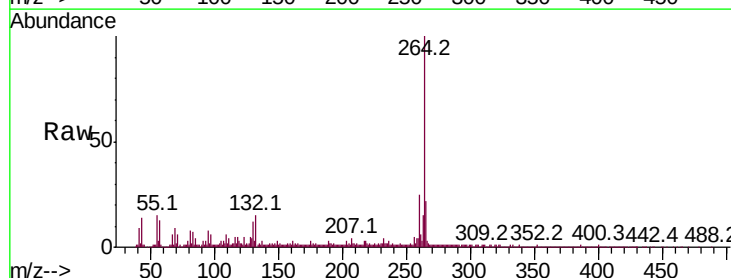
RT: 15.82 min Scan# 2292

Delta R.T. 0.04 min

Lab File: BF108117.D

Acq: 13 Aug 2018 15:43

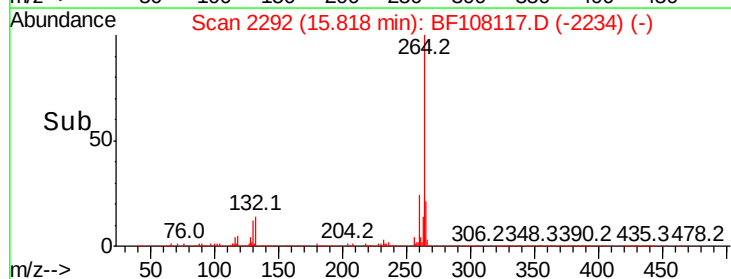
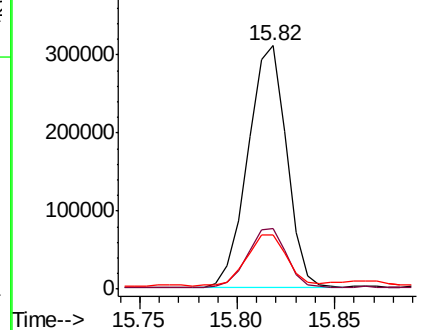
Tgt Ion:264	Resp:	425709
Ion Ratio	Lower	Upper
264	100	
260	24.9	19.2 28.8
265	22.2	17.5 26.3

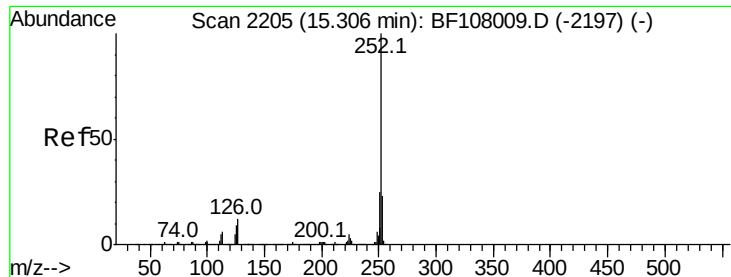


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

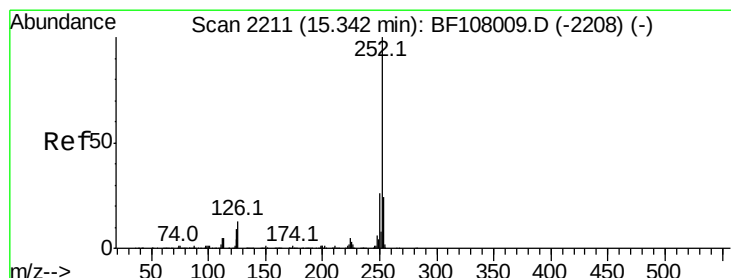
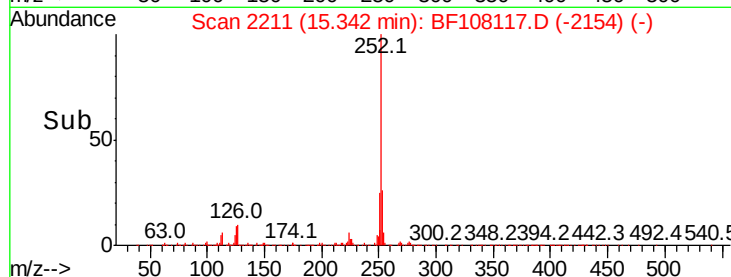
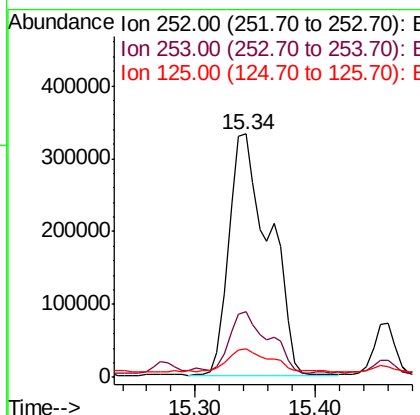
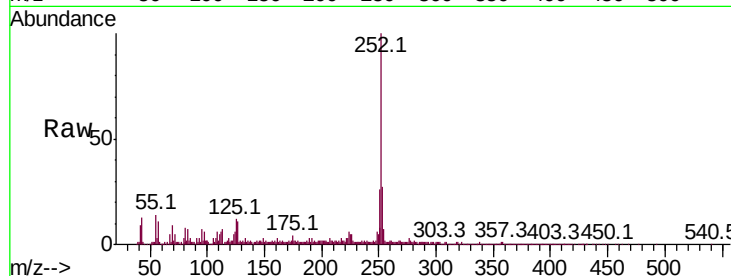




#87
Benzo(b)fluoranthene
Concen: 30.271 ng
RT: 15.34 min Scan# 2211
Delta R.T. 0.04 min
Lab File: BF108117.D
Acq: 13 Aug 2018 15:43

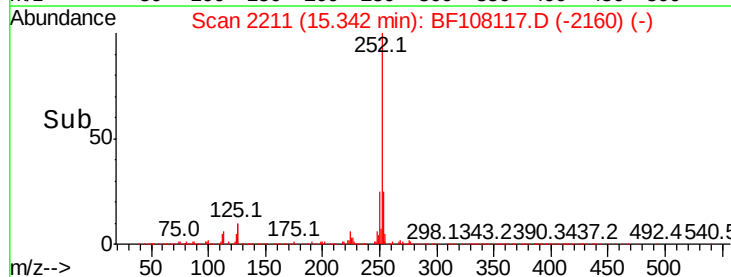
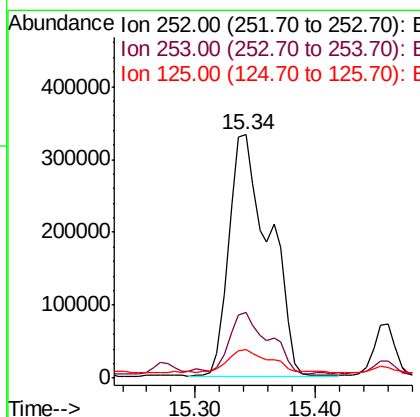
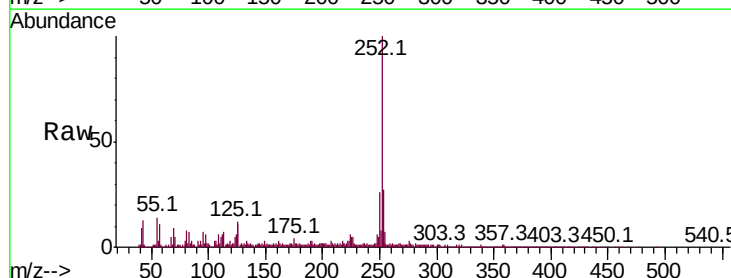
Instrument :
BNA_F
ClientSampleId :

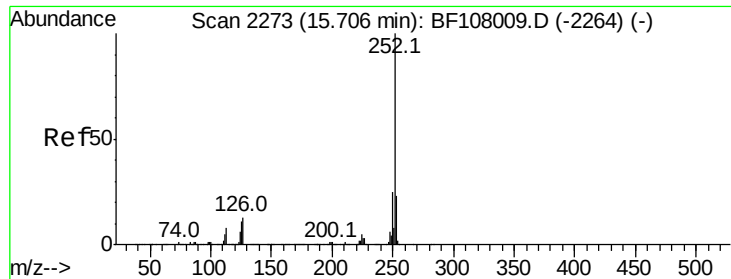
Tot Ion	Ratio	Lower	Upper
252	100		
253	26.9	17.0	25.6#
125	12.0	9.0	13.6



#88
Benzo(k)fluoranthene
Concen: 32.931 ng
RT: 15.34 min Scan# 2211
Delta R.T. 0.00 min
Lab File: BF108117.D
Acq: 13 Aug 2018 15:43

Tgt Ion	Ratio	Lower	Upper
252	100		
253	26.9	17.9	26.9#
125	12.0	10.2	15.2





#89

Benzo(a)pyrene

Concen: 16.782 ng

RT: 15.74 min Scan# 2279

Delta R.T. 0.04 min

Lab File: BF108117.D

Acq: 13 Aug 2018 15:43

Instrument :

BNA_F

ClientSampleId :

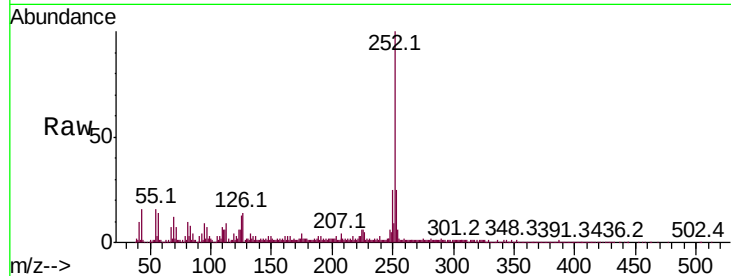
Tot Ion:252 Resp: 382276

Ion Ratio Lower Upper

252 100

253 24.6 17.1 25.7

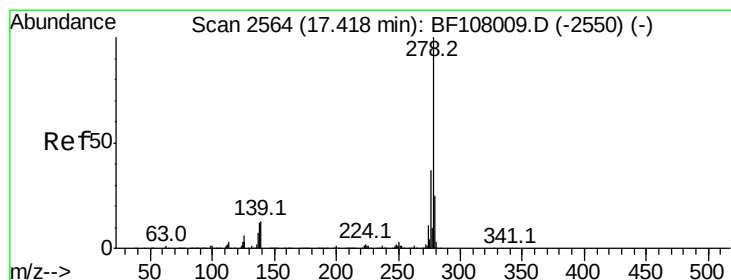
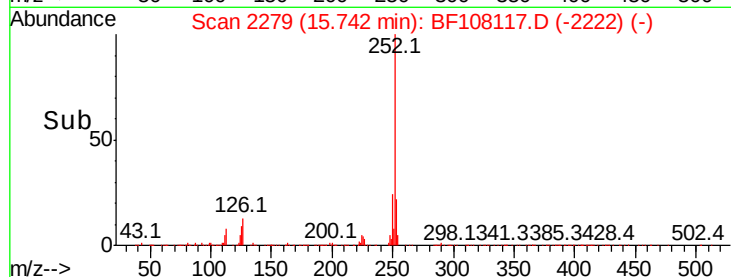
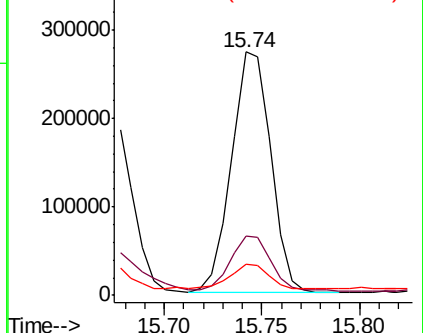
125 12.6 9.8 14.6



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

Dibenzo(a,h)anthracene

Concen: 2.860 ng

RT: 17.47 min Scan# 2572

Delta R.T. 0.05 min

Lab File: BF108117.D

Acq: 13 Aug 2018 15:43

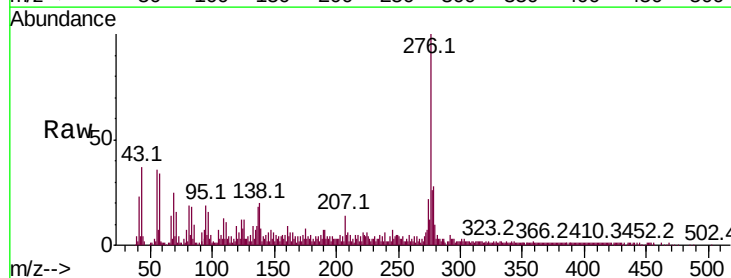
Tgt Ion:278 Resp: 53910

Ion Ratio Lower Upper

278 100

139 29.6 15.9 23.9#

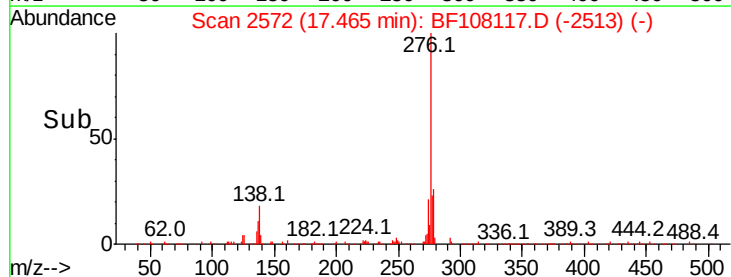
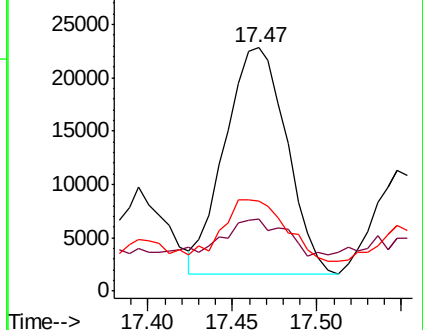
279 36.9 19.0 28.4#

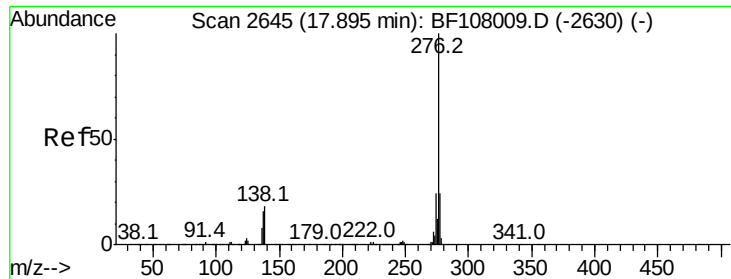


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E

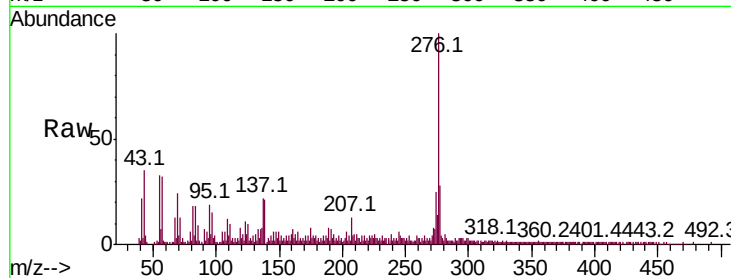




#91
 Benzo(a,h,i)perylene
 Concen: 10.074 ng
 RT: 17.96 min Scan# 2656
 Delta R.T. 0.06 min
 Lab File: BF108117.D
 Acq: 13 Aug 2018 15:43

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	27.8	17.9	26.9
138	20.6	21.8	32.8



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

