

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081318\
 Data File : BF108115.D
 Acq On : 13 Aug 2018 14:49
 Operator : JU/SJ
 Sample : J4272-15RE 2X
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

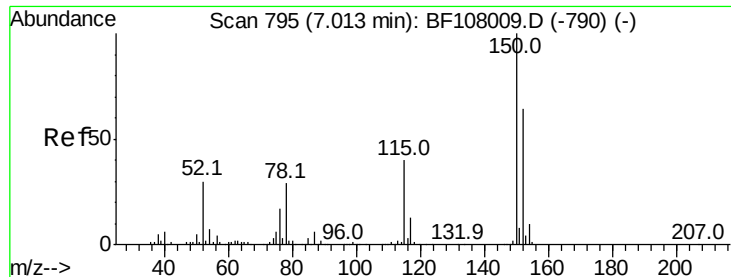
Quant Time: Aug 13 17:12:05 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 08 12:24:24 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.02	152	283882	20.00	ng	0.01
21) Naphthalene-d8	8.31	136	1027643	20.00	ng	0.00
38) Acenaphthene-d10	10.07	164	461204	20.00	ng	0.00
63) Phenanthrene-d10	11.57	188	755216	20.00	ng	0.01
75) Chrysene-d12	14.23	240	699946	20.00	ng	0.01
86) Perylene-d12	15.81	264	562406	20.00	ng	0.04

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.64	112	763004	48.66	ng	0.01
7) Phenol-d6	6.64	99	1013452	48.64	ng	0.00
23) Nitrobenzene-d5	7.58	82	656164	35.63	ng	0.00
41) 2,4,6-Tribromophenol	10.87	330	200217	43.52	ng	0.00
44) 2-Fluorobiphenyl	9.38	172	1177322	40.98	ng	0.00
78) Terphenyl-d14	13.16	244	1034521	37.58	ng	0.01

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.58	70	88033	6.248	ng	# 86
25) Isophorone	7.58	82	653260	18.610	ng	# 64
32) Benzoic acid	7.98	122	580	6.031	ng	# 74
49) Dimethylphthalate	9.77	163	112038	3.487	ng	# 99
56) 2,4-Dinitrotoluene	10.07	165	60757	7.022	ng	# 24
64) 4,6-Dinitro-2-methylphenol	10.87	198	444	5.498	ng	# 1
70) Phenanthrene	11.59	178	207736	5.832	ng	99
71) Anthracene	11.65	178	73911	2.024	ng	98
74) Fluoranthene	12.79	202	477214	12.275	ng	95
77) Pyrene	13.02	202	446755	10.082	ng	99
80) Benzo(a)anthracene	14.22	228	254678	6.340	ng	96
82) Chrysene	14.26	228	207823	5.643	ng	98
85) Indeno(1,2,3-cd)pyrene	17.45	276	72966	2.287	ng	# 90
87) Benzo(b)fluoranthene	15.34	252	322021	9.582	ng	# 91
88) Benzo(k)fluoranthene	15.34	252	322021	10.424	ng	94
89) Benzo(a)pyrene	15.74	252	167327	5.560	ng	94
91) Benzo(a,h,i)perylene	17.95	276	67956	2.772	ng	# 89

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

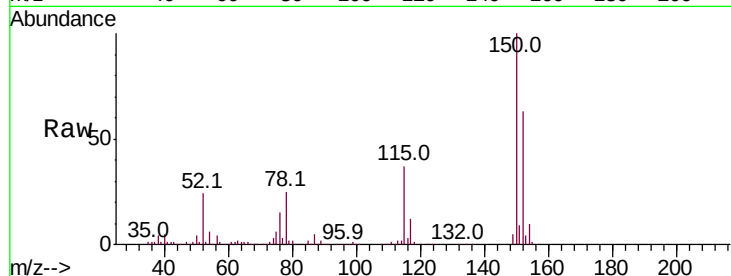


#1

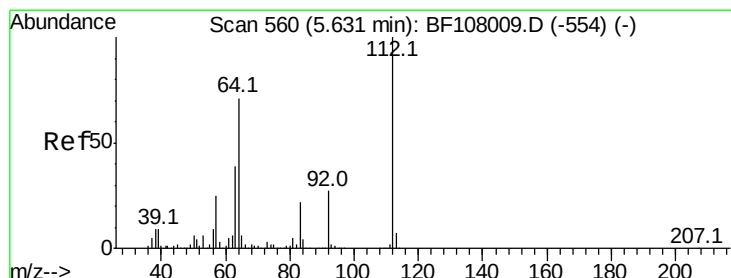
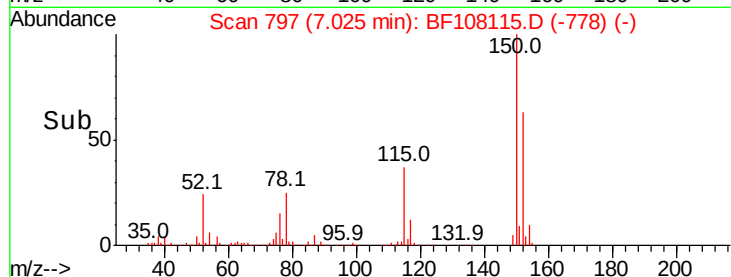
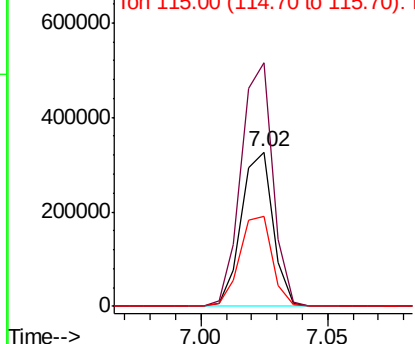
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.02 min Scan# 797
Delta R.T. 0.01 min
Lab File: BF108115.D
Acq: 13 Aug 2018 14:49

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 283882
Ion Ratio Lower Upper
152 100
150 157.6 124.6 186.8
115 58.4 50.1 75.1



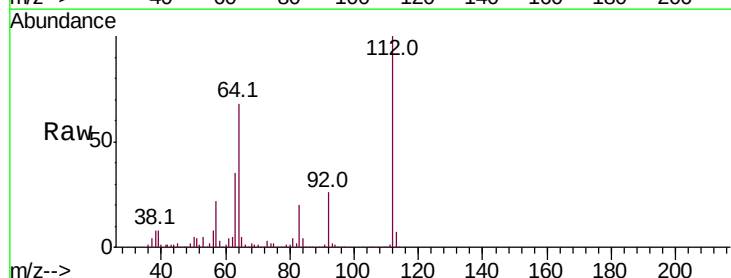
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



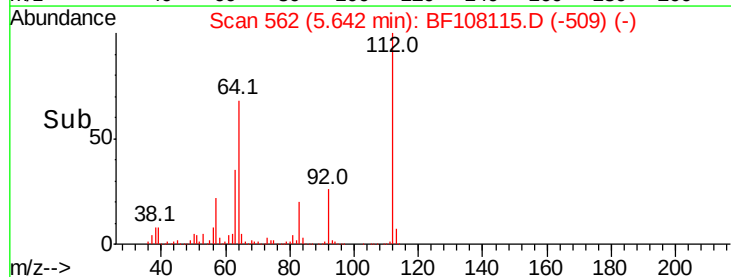
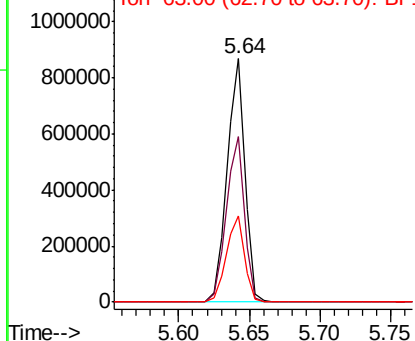
#5

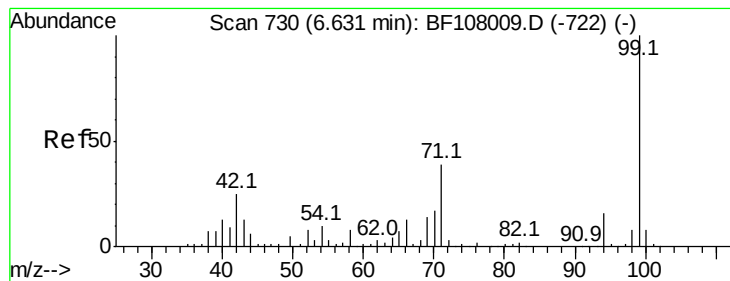
2-Fluorophenol
Concen: 48.661 ng
RT: 5.64 min Scan# 562
Delta R.T. 0.01 min
Lab File: BF108115.D
Acq: 13 Aug 2018 14:49

Tgt Ion:112 Resp: 763004
Ion Ratio Lower Upper
112 100
64 67.7 47.9 71.9
63 35.4 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: 48.638 ng

RT: 6.64 min Scan# 731

Delta R.T. 0.01 min

Lab File: BF108115.D

Acq: 13 Aug 2018 14:49

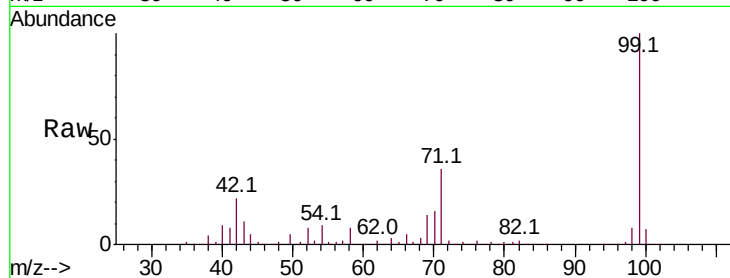
Instrument :

BNA_F

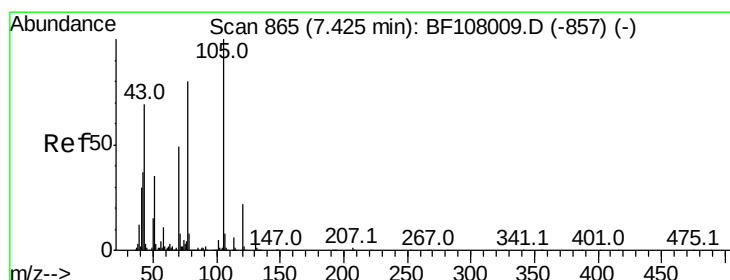
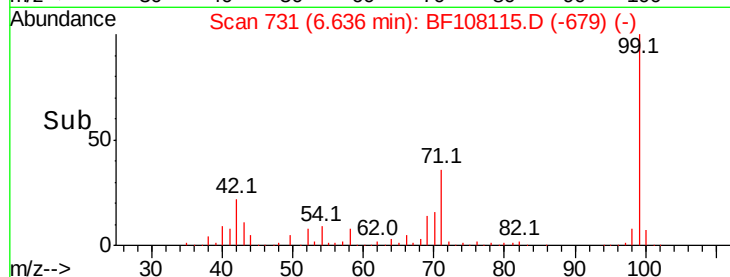
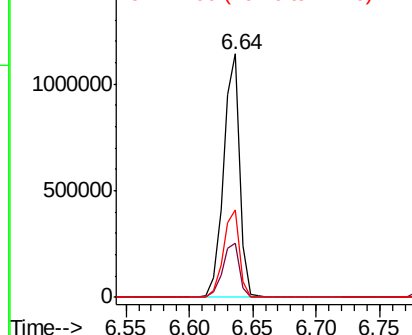
ClientSampleId :

Tot Ion: 99 Resp: 1013452

Ion	Ratio	Lower	Upper
99	100		
42	22.5	14.5	21.7#
71	35.8	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: 6.248 ng

RT: 7.58 min Scan# 891

Delta R.T. 0.15 min

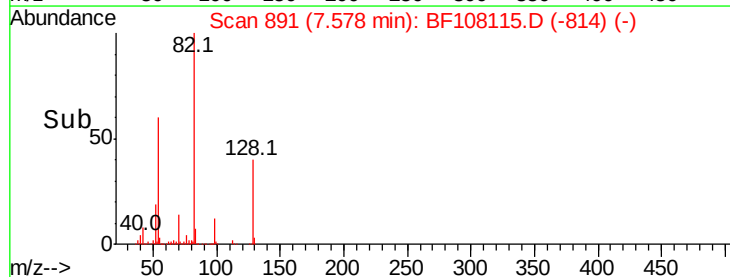
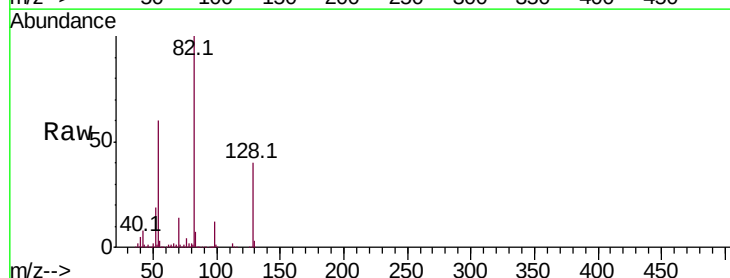
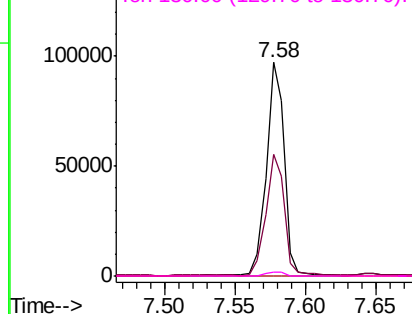
Lab File: BF108115.D

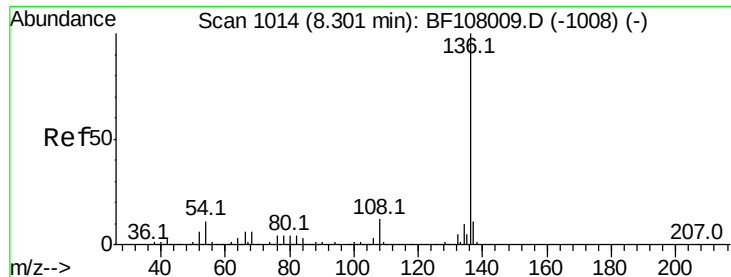
Acq: 13 Aug 2018 14:49

Tgt Ion: 70 Resp: 88033

Ion	Ratio	Lower	Upper
70	100		
42	57.1	47.5	71.3
101	0.0	7.4	11.2#
130	2.1	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

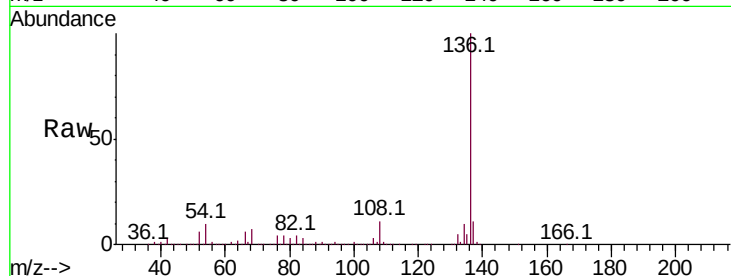




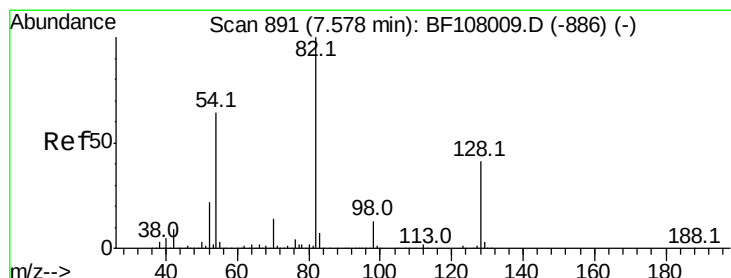
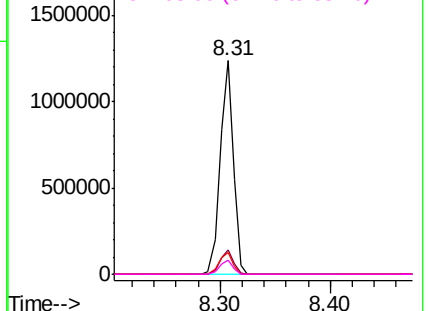
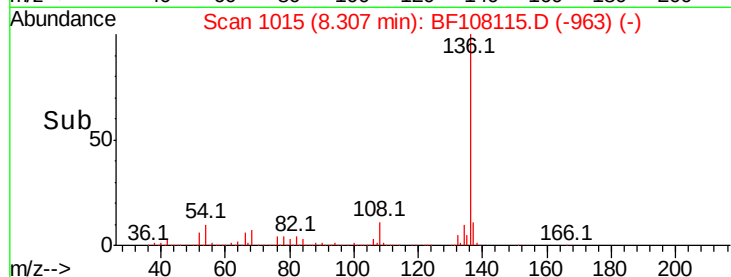
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.31 min Scan# 1015
Delta R.T. 0.01 min
Lab File: BF108115.D
Acq: 13 Aug 2018 14:49

Instrument :
BNA_F
ClientSampleId :

Tot Ion:136	Resp: 1027643
Ion Ratio	Lower Upper
136 100	
137 11.4	8.9 13.3
54 10.4	6.6 9.8#
68 6.7	5.0 7.4

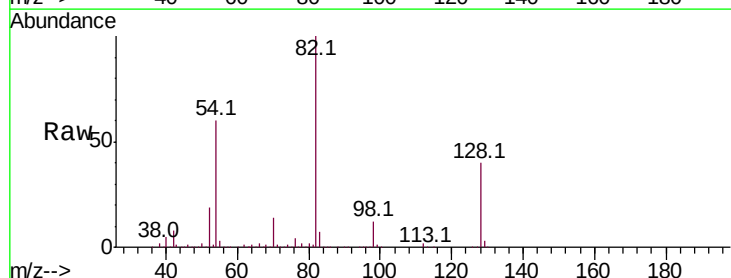


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

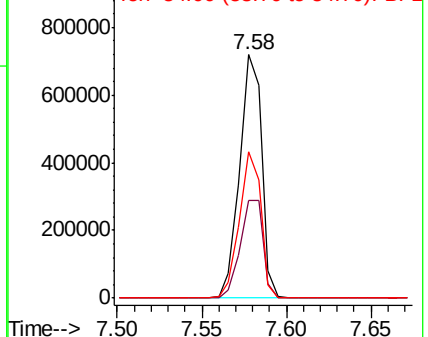
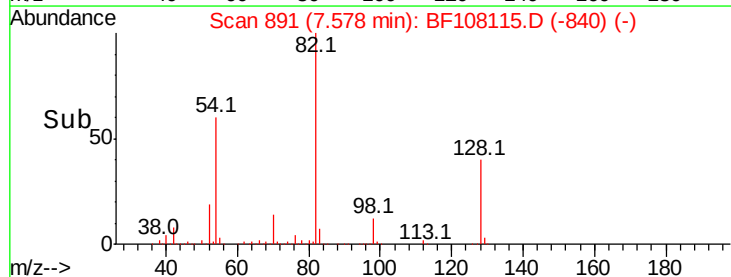


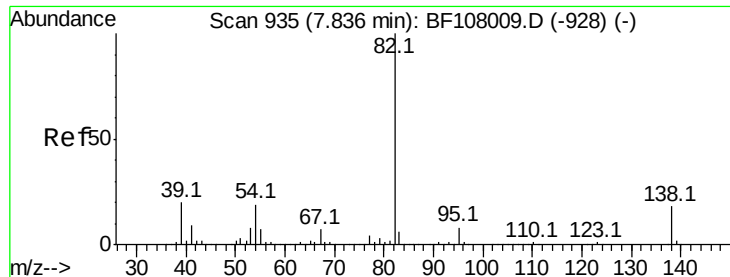
#23
Nitrobenzene-d5
Concen: 35.630 ng
RT: 7.58 min Scan# 891
Delta R.T. -0.00 min
Lab File: BF108115.D
Acq: 13 Aug 2018 14:49

Tgt	Ion: 82	Resp:	656164
Ion	Ratio	Lower	Upper
82	100		
128	40.1	36.1	54.1
54	60.1	41.4	62.2



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: 18.610 ng

RT: 7.58 min Scan# 891

Delta R.T. -0.26 min

Lab File: BF108115.D

Acq: 13 Aug 2018 14:49

Instrument :

BNA_F

ClientSampled :

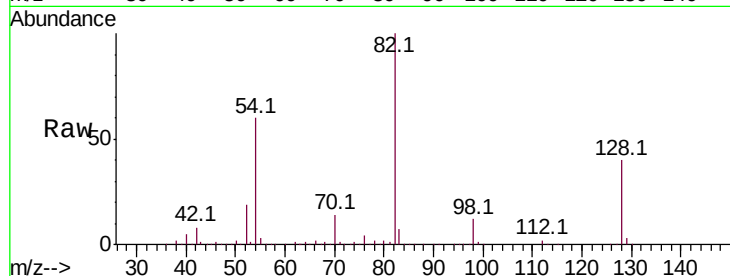
Tot Ion: 82 Resp: 653260

Ion Ratio Lower Upper

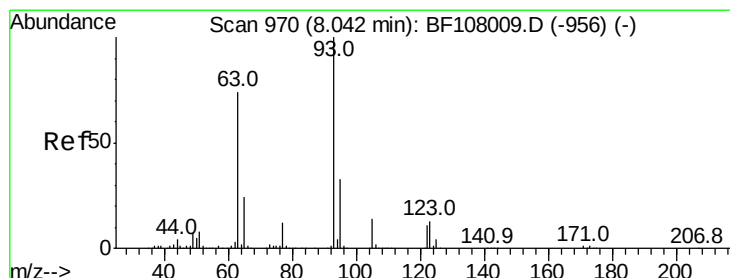
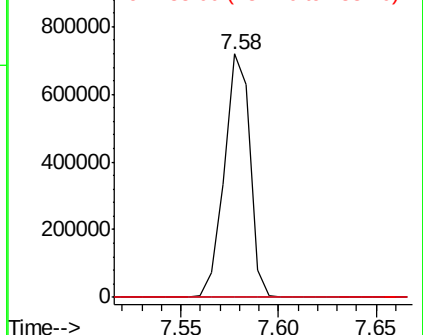
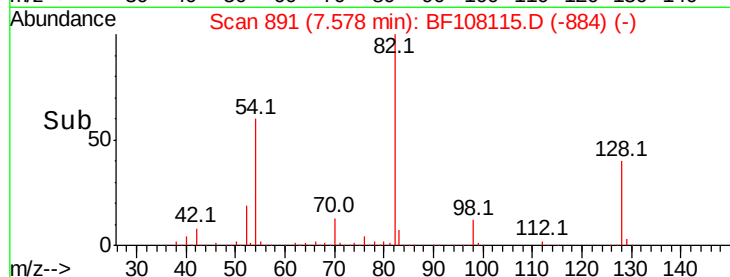
82 100

95 0.0 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: 6.031 ng

RT: 7.98 min Scan# 959

Delta R.T. -0.06 min

Lab File: BF108115.D

Acq: 13 Aug 2018 14:49

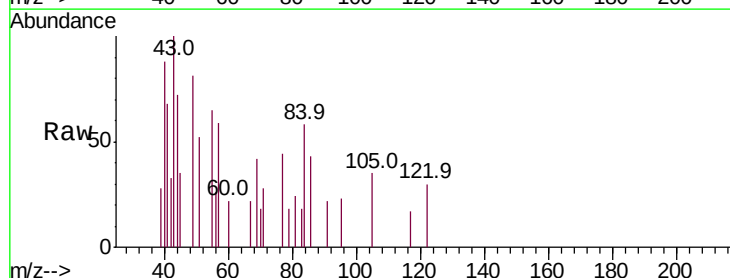
Tgt Ion:122 Resp: 580

Ion Ratio Lower Upper

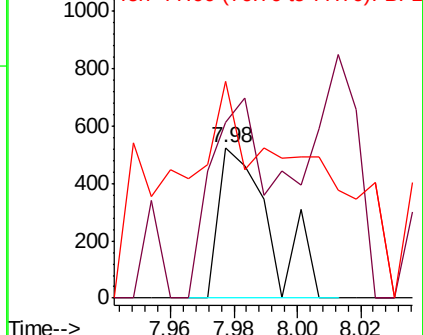
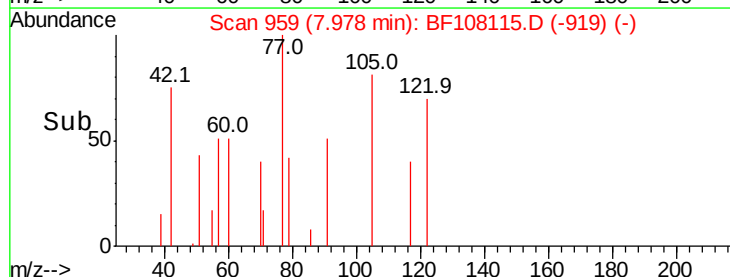
122 100

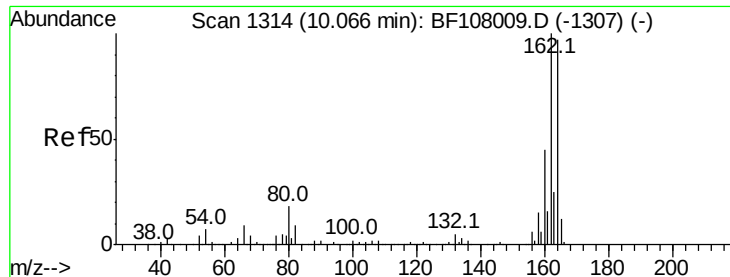
105 116.3 101.1 141.1

77 143.5 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: BF108115.D

Acq: 13 Aug 2018 14:49

Instrument :

BNA_F

ClientSampleId :

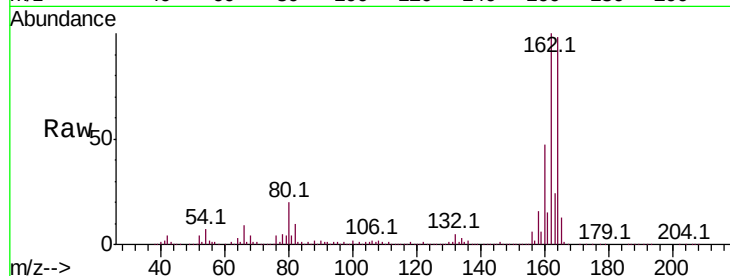
Tot Ion:164 Resp: 461204

Ion Ratio Lower Upper

164 100

162 101.9 86.1 129.1

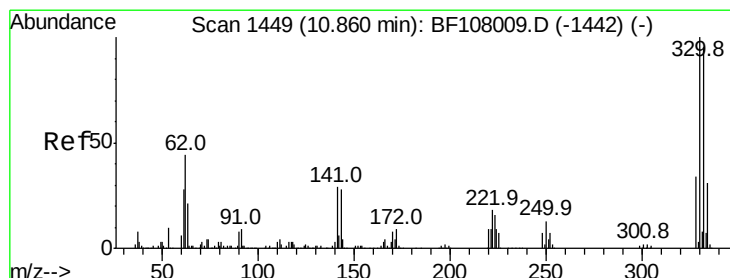
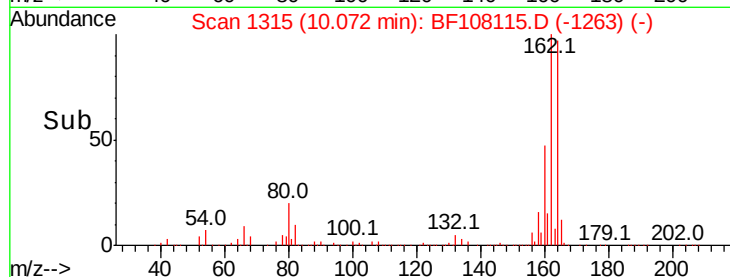
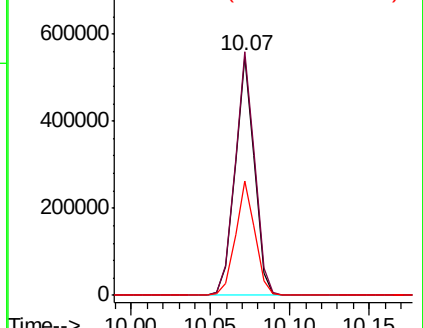
160 47.7 38.3 57.5



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: 43.522 ng

RT: 10.87 min Scan# 1450

Delta R.T. 0.01 min

Lab File: BF108115.D

Acq: 13 Aug 2018 14:49

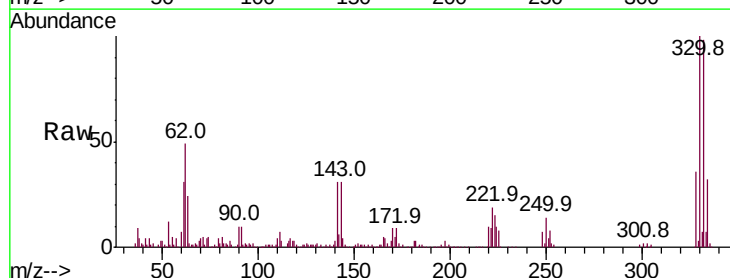
Tgt Ion:330 Resp: 200217

Ion Ratio Lower Upper

330 100

332 98.6 77.0 115.6

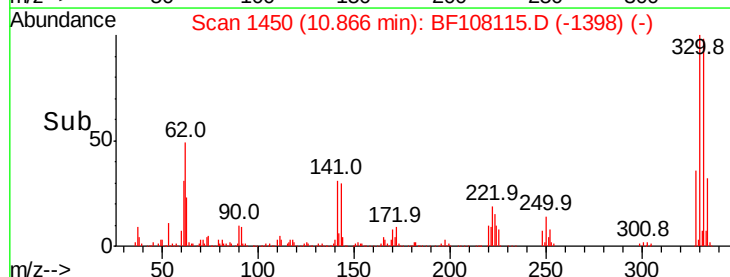
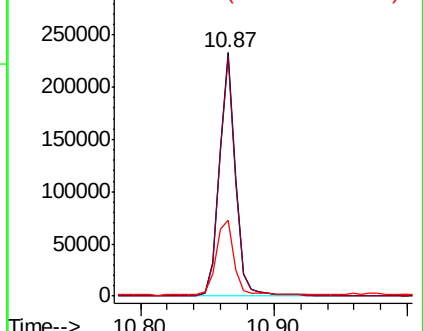
141 34.0 29.9 44.9

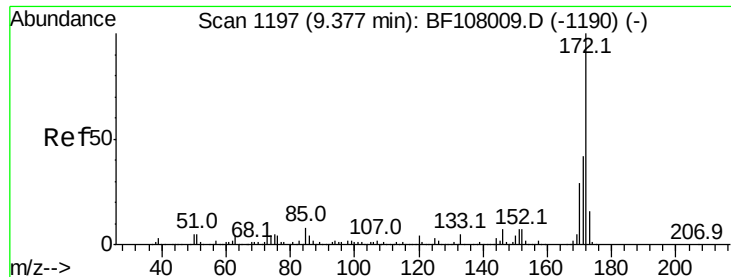


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#44

2-Fluorobiphenyl

Concen: 40.983 ng

RT: 9.38 min Scan# 1197

Delta R.T. -0.00 min

Lab File: BF108115.D

Acq: 13 Aug 2018 14:49

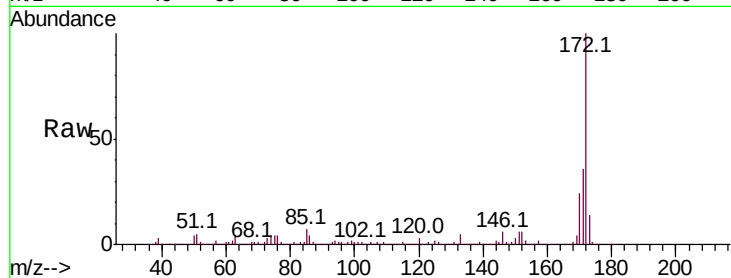
Instrument :

BNA_F

ClientSampleId :

Tot Ion:172 Resp: 1177322

Ion	Ratio	Lower	Upper
172	100		
171	36.1	29.7	44.5
170	24.1	19.6	29.4

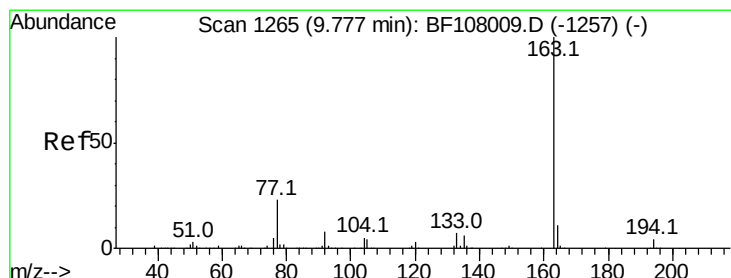
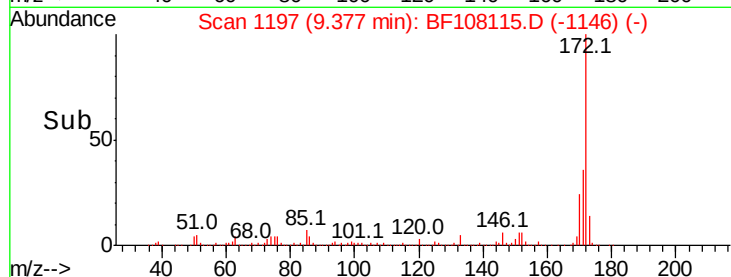
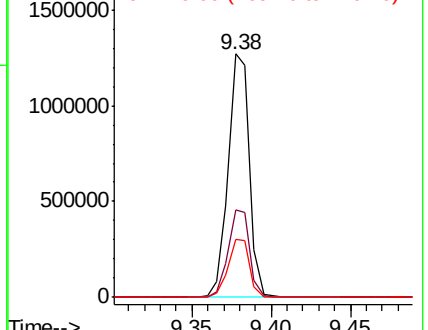


Abundance

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



#49

Dimethylphthalate

Concen: 3.487 ng

RT: 9.77 min Scan# 1264

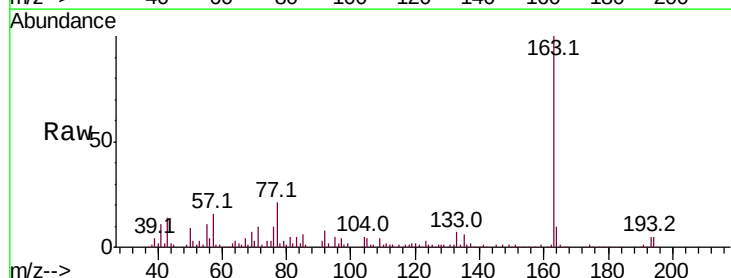
Delta R.T. -0.01 min

Lab File: BF108115.D

Acq: 13 Aug 2018 14:49

Tgt Ion:163 Resp: 112038

Ion	Ratio	Lower	Upper
163	100		
194	4.9	2.7	4.1#
164	10.3	8.2	12.2

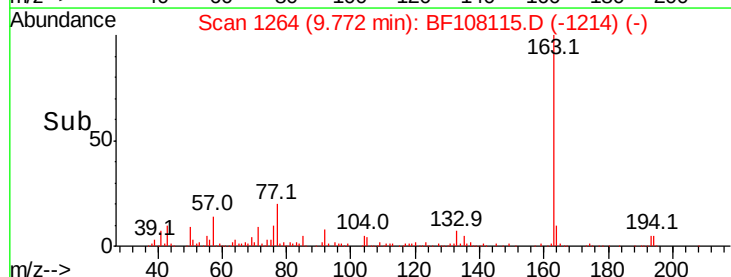
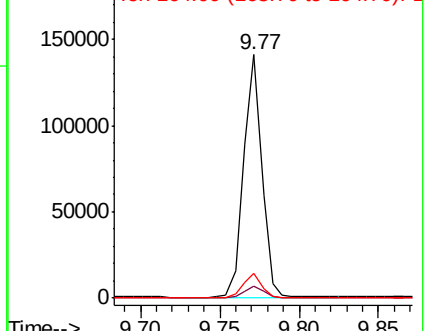


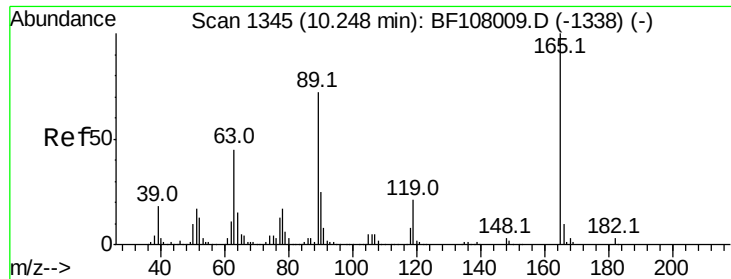
Abundance

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





#56

2,4-Dinitrotoluene

Concen: 7.022 ng

RT: 10.07 min Scan# 1315

Delta R.T. -0.18 min

Lab File: BF108115.D

Acq: 13 Aug 2018 14:49

Instrument :

BNA_F

ClientSampled :

Tot Ion:165 Resp: 60757

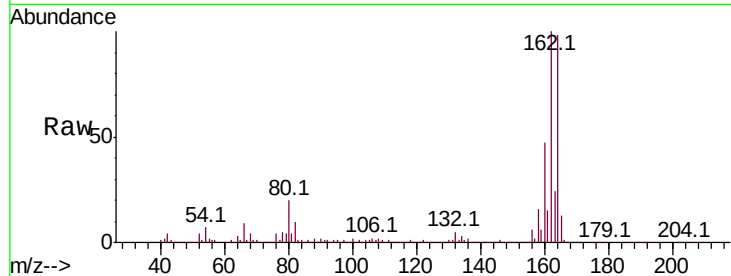
Ion Ratio Lower Upper

165 100

63 1.6 36.4 54.6#

89 1.7 57.8 86.6#

182 0.0 1.6 2.4#

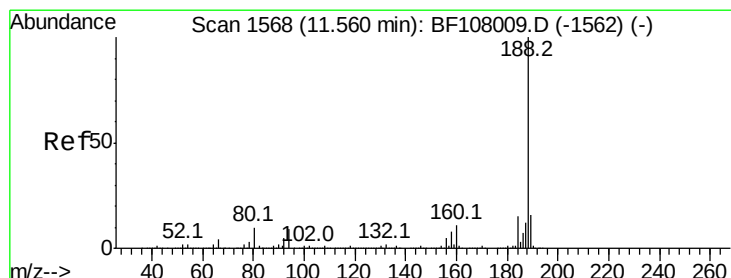
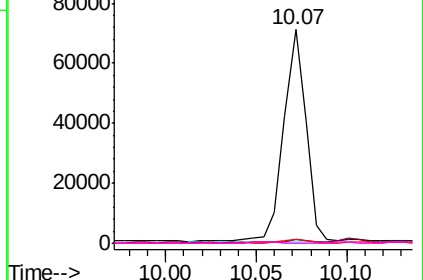
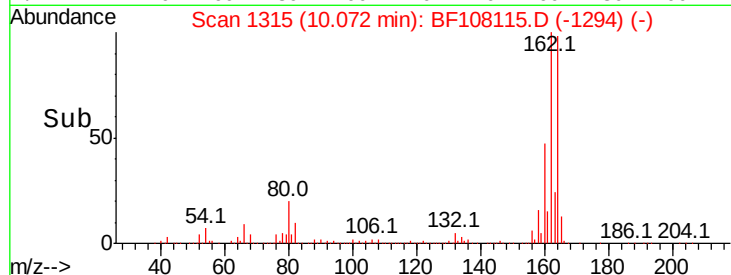


Abundance Ion 165.00 (164.70 to 165.70): E

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



#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.57 min Scan# 1570

Delta R.T. 0.01 min

Lab File: BF108115.D

Acq: 13 Aug 2018 14:49

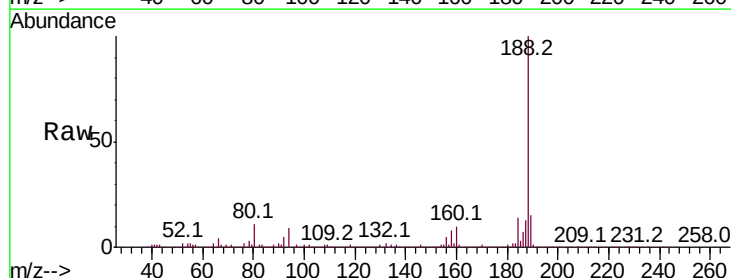
Tgt Ion:188 Resp: 755216

Ion Ratio Lower Upper

188 100

94 9.1 8.5 12.7

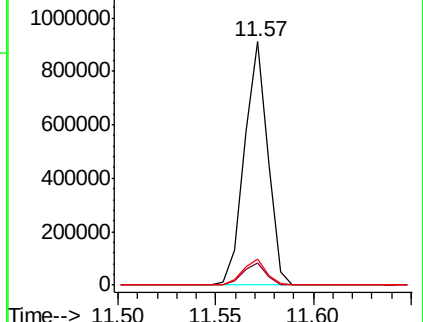
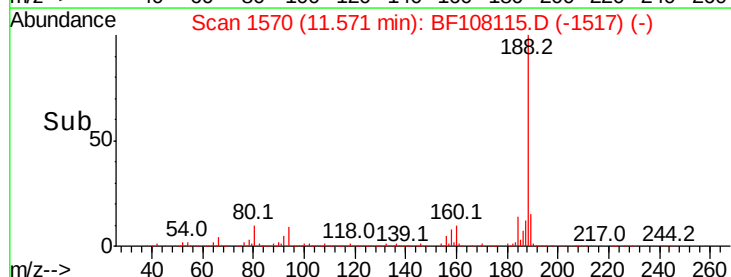
80 10.5 9.2 13.8

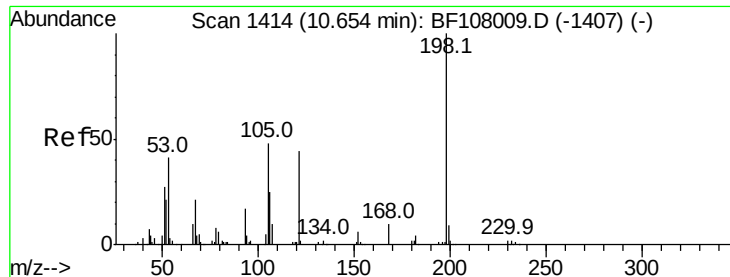


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

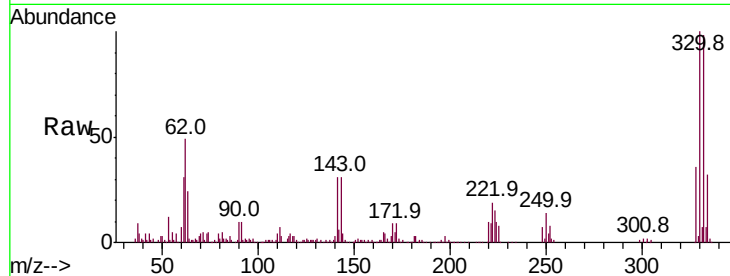




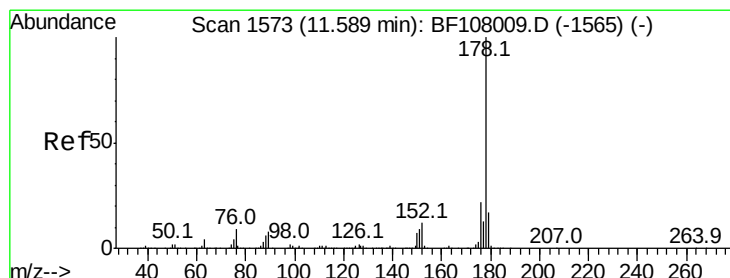
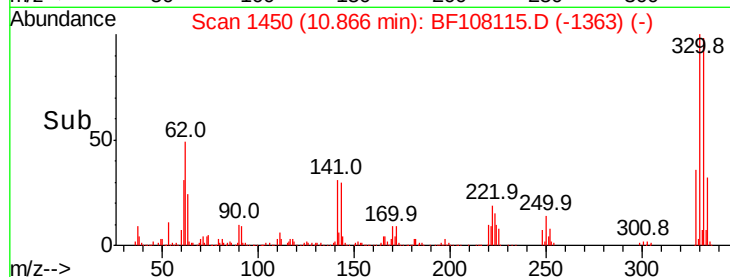
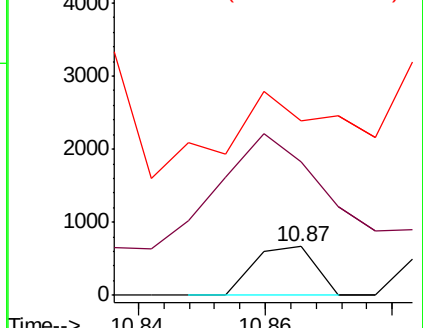
#64
4,6-Dinitro-2-methylphenol
Concen: 5.498 ng
RT: 10.87 min Scan# 1450
Delta R.T. 0.21 min
Lab File: BF108115.D
Acq: 13 Aug 2018 14:49

Instrument :
BNA_F
ClientSampleId :

Tot Ion:198 Resp: 444
Ion Ratio Lower Upper
198 100
51 274.5 37.7 77.7#
105 361.1 36.3 76.3#

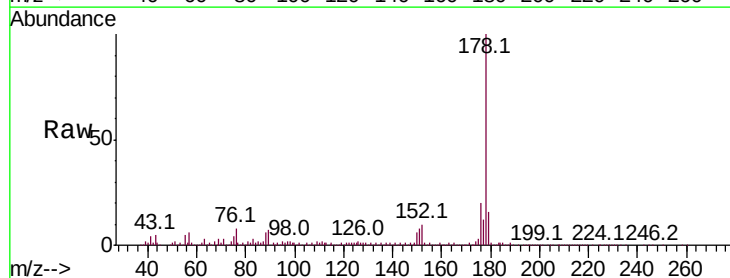


Abundance Ion 198.00 (197.70 to 198.70): E
Ion 51.00 (50.70 to 51.70): BF1
Ion 105.00 (104.70 to 105.70): E

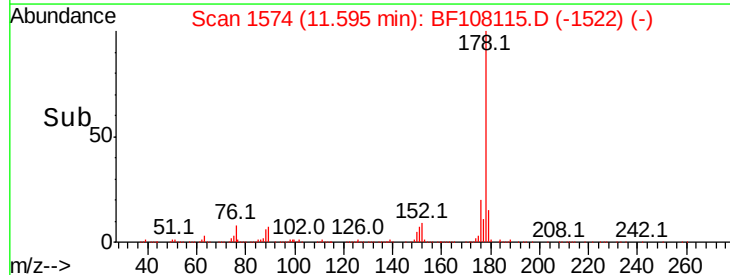
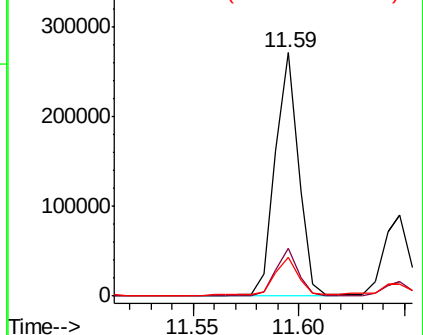


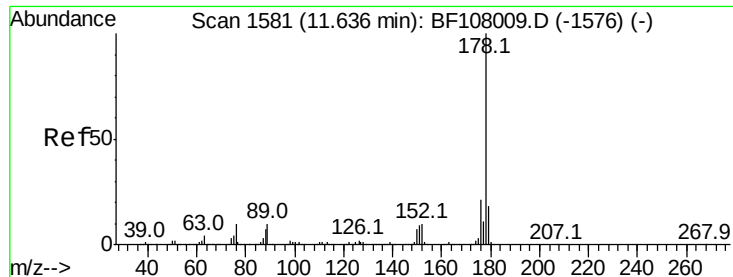
#70
Phenanthrene
Concen: 5.832 ng
RT: 11.59 min Scan# 1574
Delta R.T. 0.01 min
Lab File: BF108115.D
Acq: 13 Aug 2018 14:49

Tgt Ion:178 Resp: 207736
Ion Ratio Lower Upper
178 100
176 19.7 15.8 23.8
179 15.8 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: 2.024 ng

RT: 11.65 min Scan# 1583

Delta R.T. 0.01 min

Lab File: BF108115.D

Acq: 13 Aug 2018 14:49

Instrument :

BNA_F

ClientSampleId :

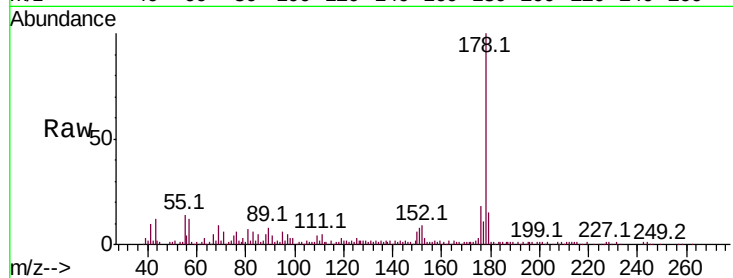
Tot Ion:178 Resp: 73911

Ion Ratio Lower Upper

178 100

176 18.4 15.4 23.2

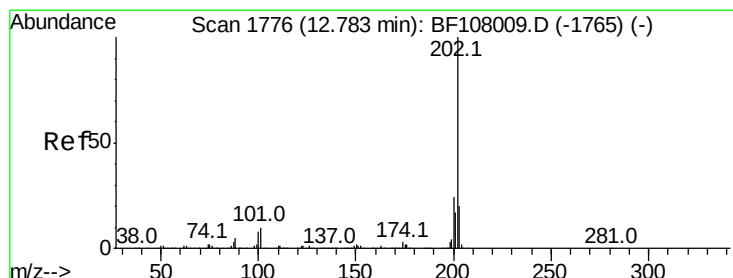
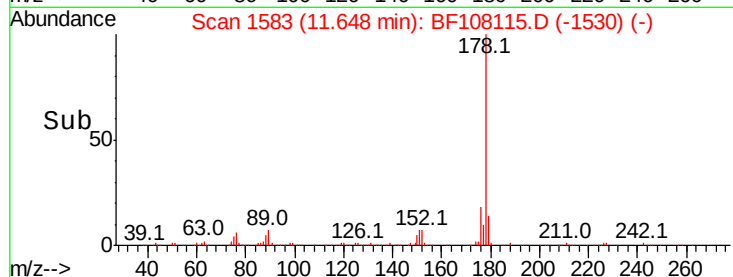
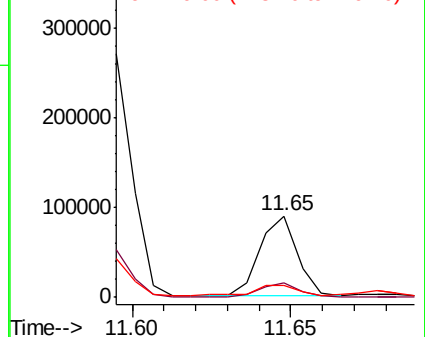
179 15.0 12.6 19.0



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: 12.275 ng

RT: 12.79 min Scan# 1778

Delta R.T. 0.01 min

Lab File: BF108115.D

Acq: 13 Aug 2018 14:49

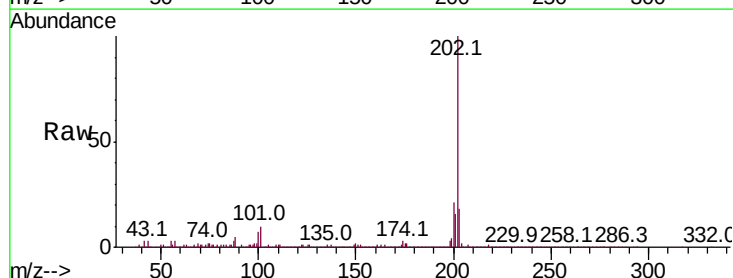
Tgt Ion:202 Resp: 477214

Ion Ratio Lower Upper

202 100

101 9.7 0.0 34.1

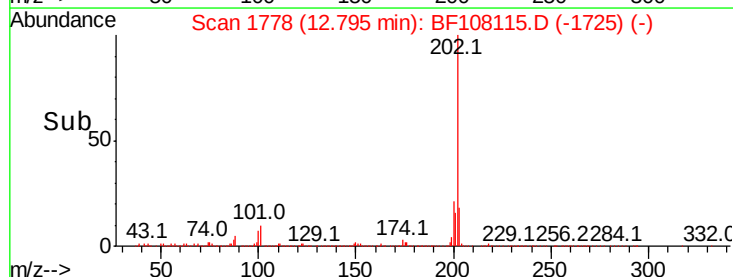
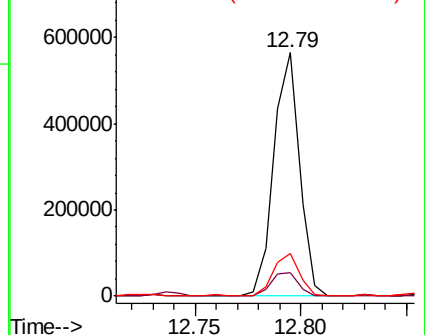
203 17.7 0.0 38.1

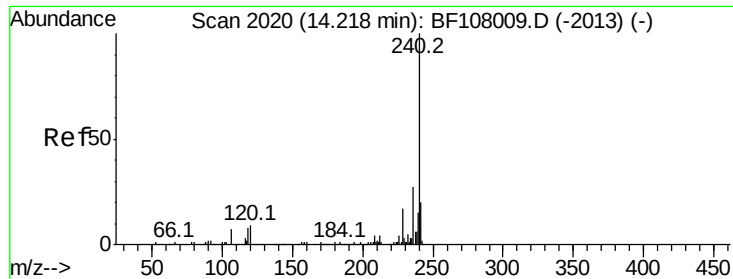


Abundance Ion 202.00 (201.70 to 202.70): E

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: 14.23 min Scan# 2022

Delta R.T. 0.01 min

Lab File: BF108115.D

Acq: 13 Aug 2018 14:49

Instrument :

BNA_F

ClientSampleId :

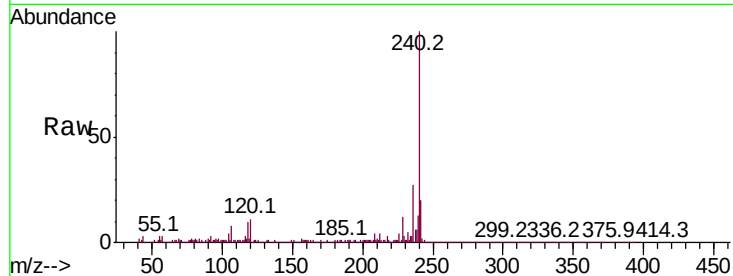
Tot Ion:240 Resp: 699946

Ion Ratio Lower Upper

240 100

120 10.9 9.5 14.3

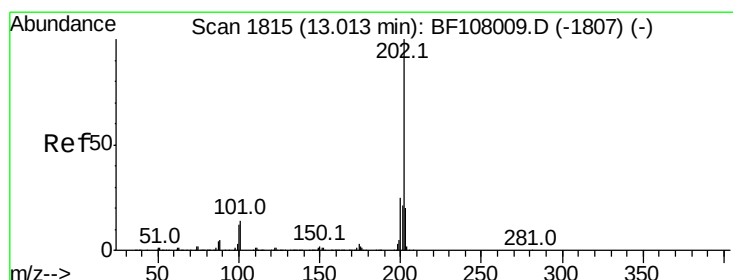
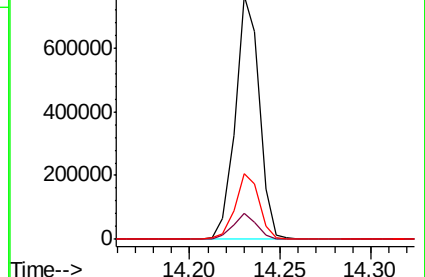
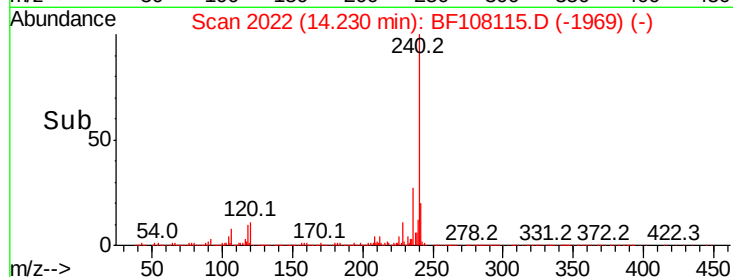
236 27.1 20.7 31.1



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

Pyrene

Concen: 10.082 ng

RT: 13.02 min Scan# 1817

Delta R.T. 0.01 min

Lab File: BF108115.D

Acq: 13 Aug 2018 14:49

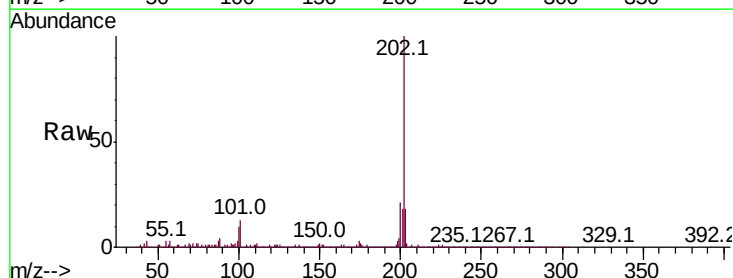
Tgt Ion:202 Resp: 446755

Ion Ratio Lower Upper

202 100

200 21.2 17.4 26.2

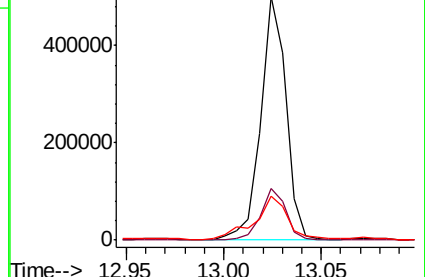
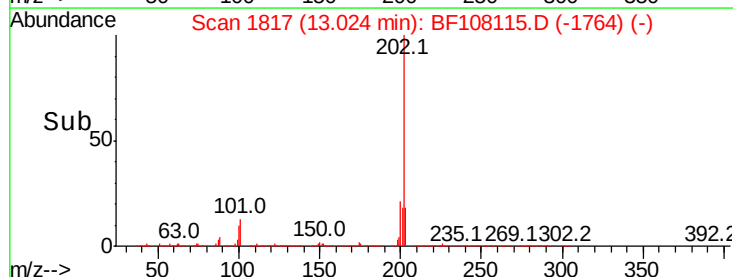
203 17.9 14.3 21.5

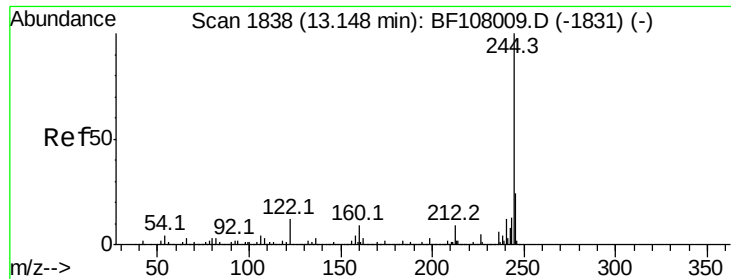


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

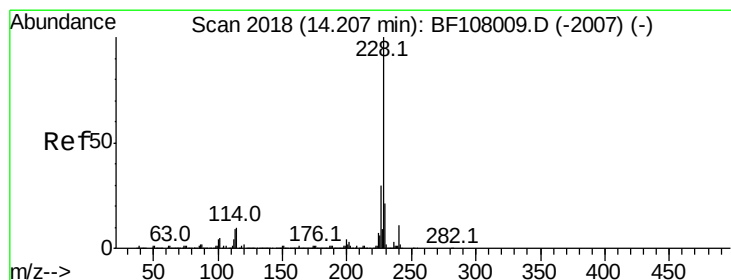
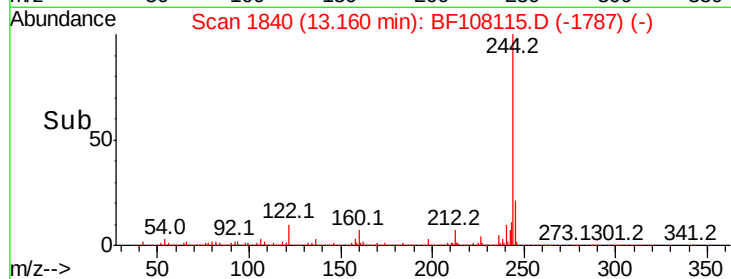
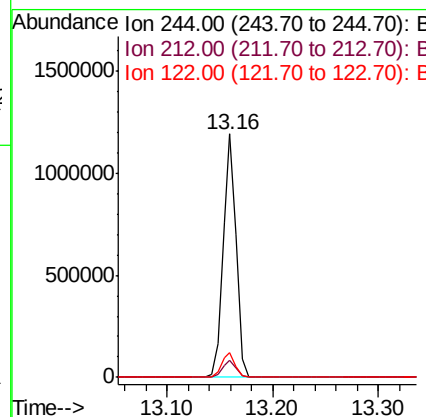
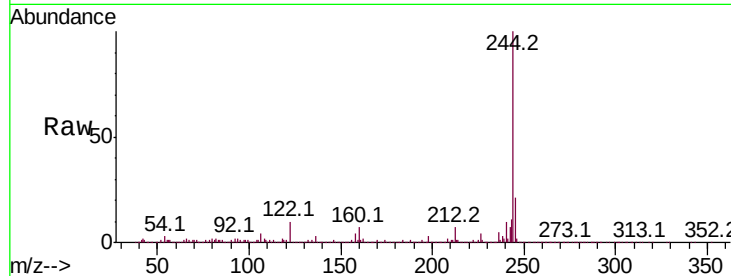




#78
 Terphenyl-d14
 Concen: 37.579 ng
 RT: 13.16 min Scan# 1840
 Delta R.T. 0.01 min
 Lab File: BF108115.D
 Acq: 13 Aug 2018 14:49

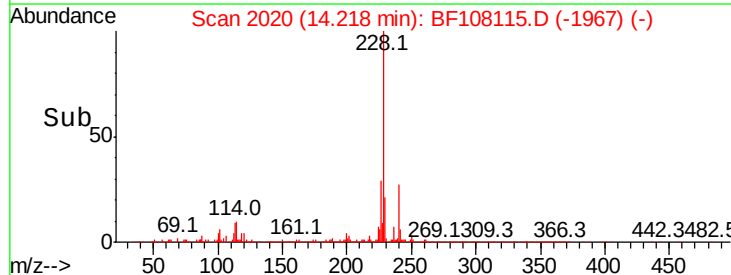
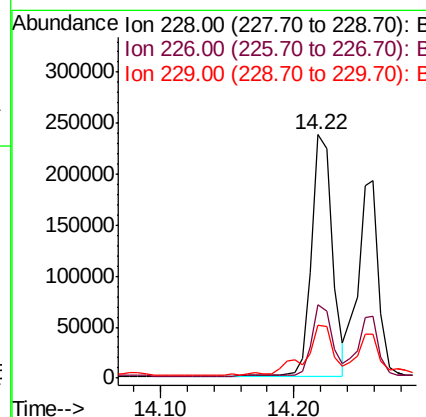
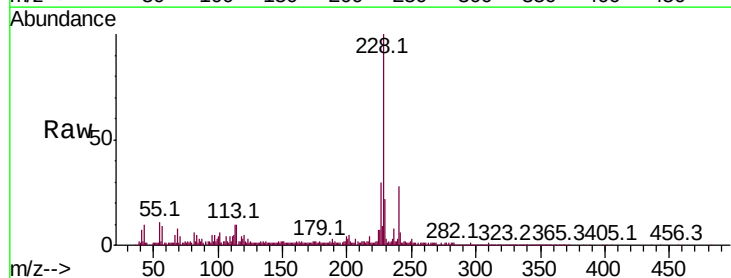
Instrument :
 BNA_F
 ClientSampleId :

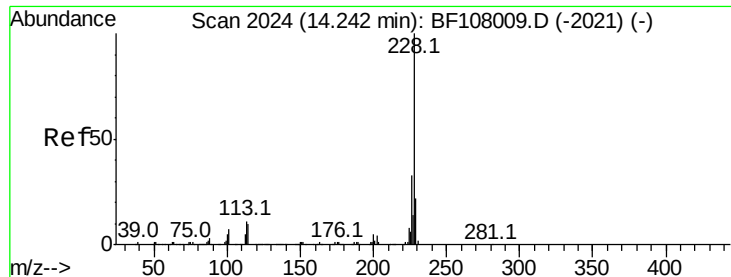
Tot Ion:244 Resp: 1034521
 Ion Ratio Lower Upper
 244 100
 212 7.2 5.4 8.0
 122 10.2 11.0 16.4#



#80
 Benzo(a)anthracene
 Concen: 6.340 ng
 RT: 14.22 min Scan# 2020
 Delta R.T. 0.01 min
 Lab File: BF108115.D
 Acq: 13 Aug 2018 14:49

Tgt Ion:228 Resp: 254678
 Ion Ratio Lower Upper
 228 100
 226 30.2 22.6 33.8
 229 21.9 15.8 23.6





#82

Chrysene

Concen: 5.643 ng

RT: 14.26 min Scan# 2027

Delta R.T. 0.02 min

Lab File: BF108115.D

Acq: 13 Aug 2018 14:49

Instrument :

BNA_F

ClientSampleId :

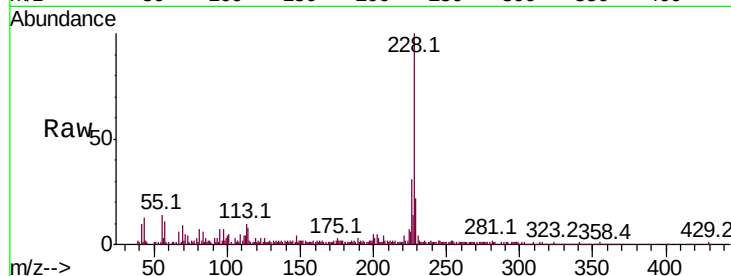
Tot Ion:228 Resp: 207823

Ion Ratio Lower Upper

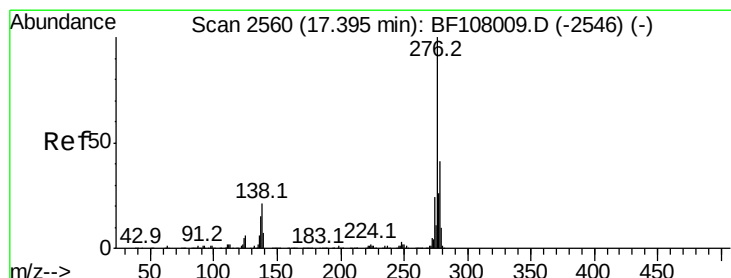
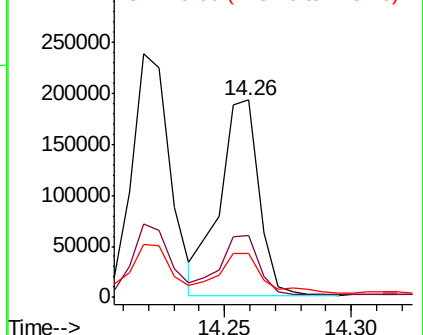
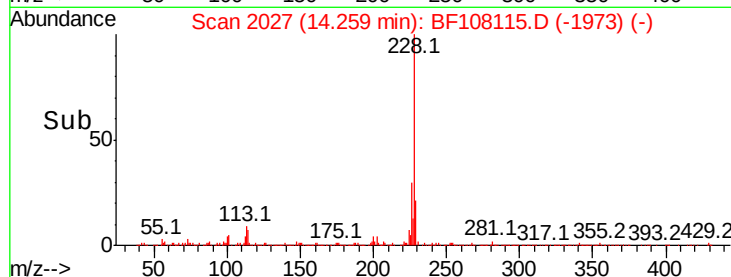
228 100

226 31.3 25.0 37.6

229 22.1 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: 2.287 ng

RT: 17.45 min Scan# 2569

Delta R.T. 0.05 min

Lab File: BF108115.D

Acq: 13 Aug 2018 14:49

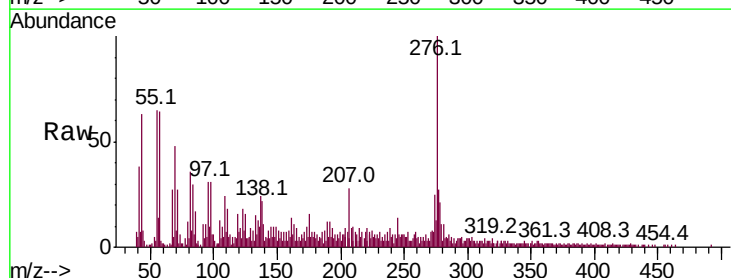
Tgt Ion:276 Resp: 72966

Ion Ratio Lower Upper

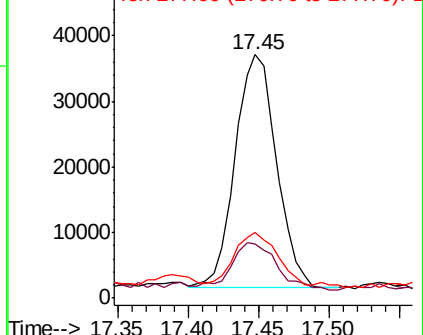
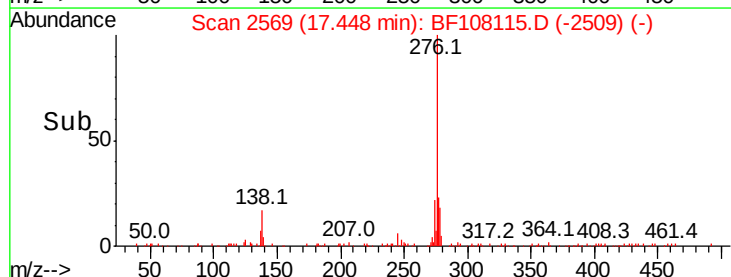
276 100

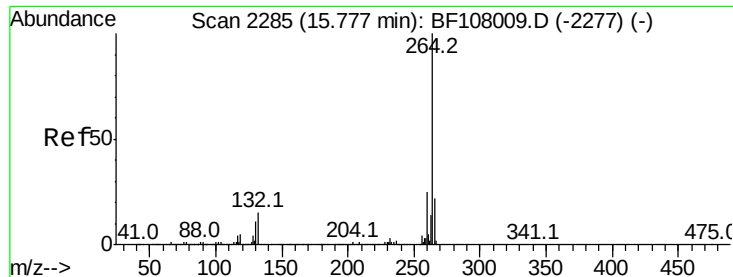
138 22.5 25.0 37.6#

277 23.7 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

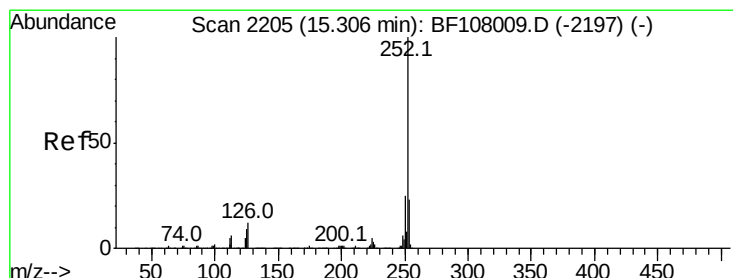
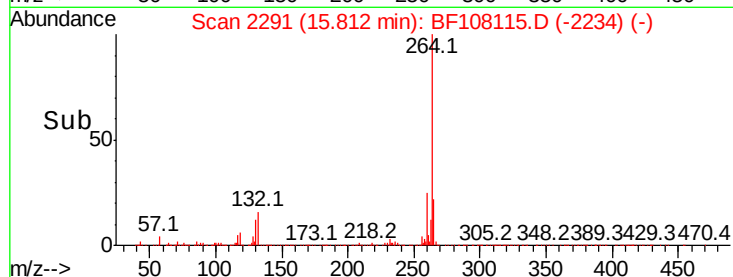
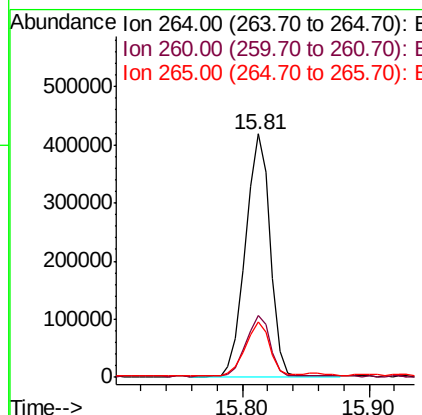
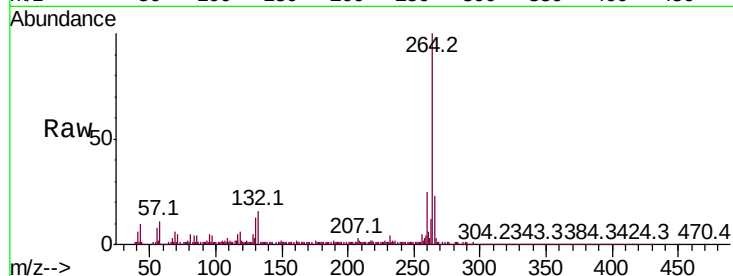




#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.81 min Scan# 2291
Delta R.T. 0.04 min
Lab File: BF108115.D
Acq: 13 Aug 2018 14:49

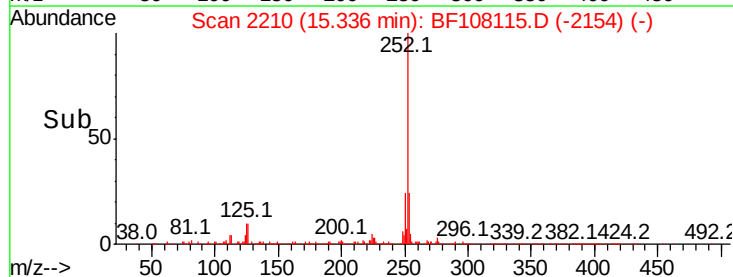
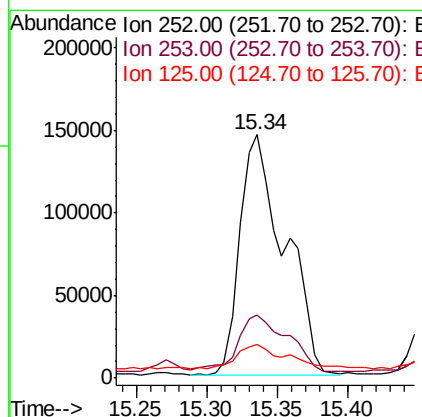
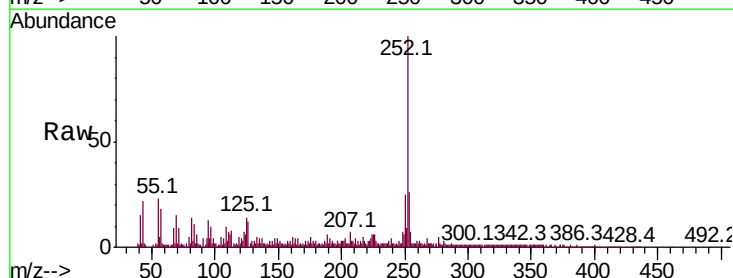
Instrument :
BNA_F
ClientSampleId :

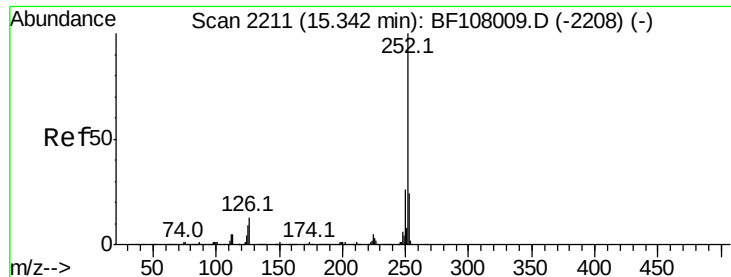
Tot Ion	Ratio	Lower	Upper
264	100		
260	25.4	19.2	28.8
265	23.0	17.5	26.3



#87
Benzo(b)fluoranthene
Concen: 9.582 ng
RT: 15.34 min Scan# 2210
Delta R.T. 0.03 min
Lab File: BF108115.D
Acq: 13 Aug 2018 14:49

Tgt Ion	Ratio	Lower	Upper
252	100		
253	26.0	17.0	25.6#
125	13.7	9.0	13.6#

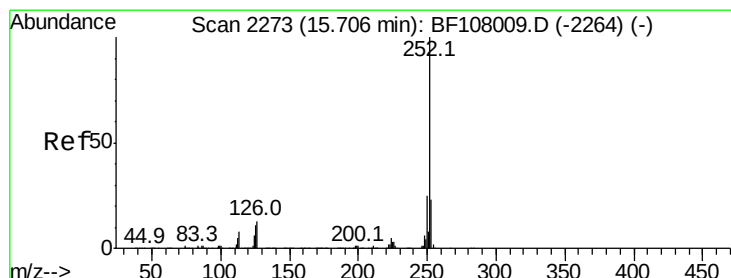
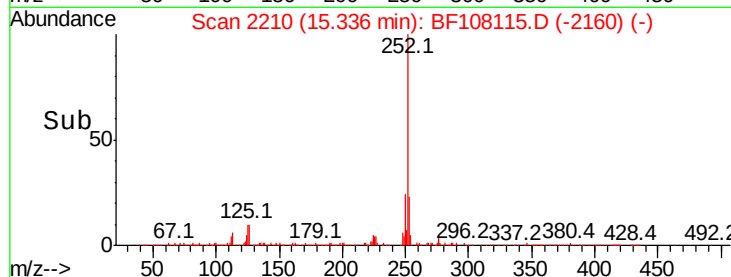
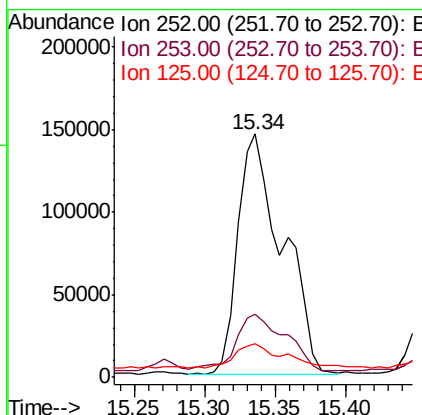
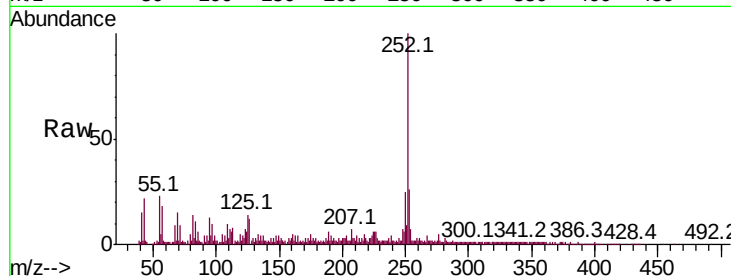




#88
Benzo(k)fluoranthene
Concen: 10.424 ng
RT: 15.34 min Scan# 2210
Delta R.T. -0.01 min
Lab File: BF108115.D
Acq: 13 Aug 2018 14:49

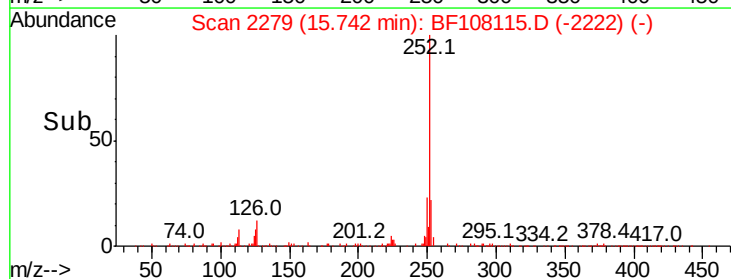
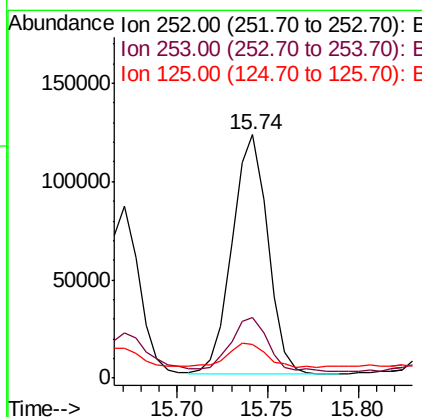
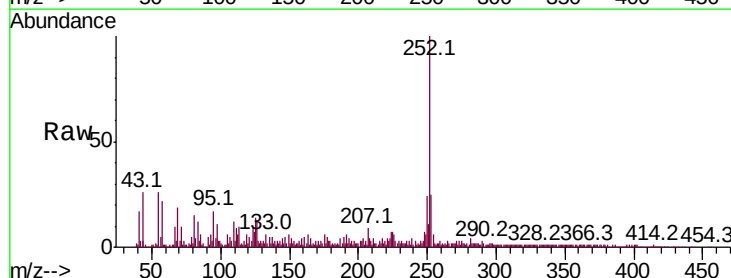
Instrument :
BNA_F
ClientSampleId :

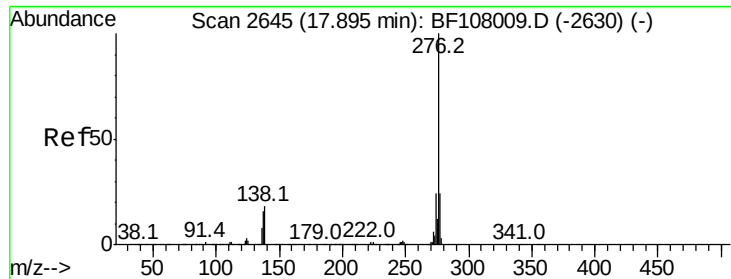
Tot Ion	Ratio	Lower	Upper
252	100		
253	26.0	17.9	26.9
125	13.7	10.2	15.2



#89
Benzo(a)pyrene
Concen: 5.560 ng
RT: 15.74 min Scan# 2279
Delta R.T. 0.04 min
Lab File: BF108115.D
Acq: 13 Aug 2018 14:49

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.7	17.1	25.7
125	13.6	9.8	14.6

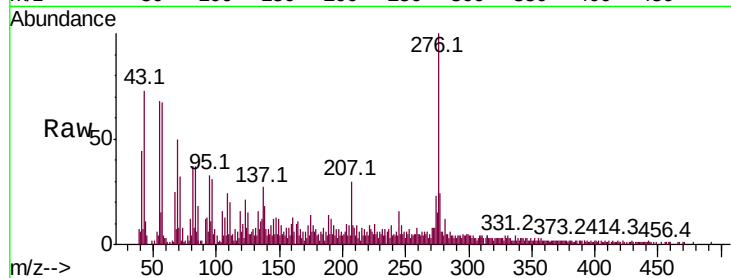




#91
 Benzo(a,h,i)perylene
 Concen: 2.772 ng
 RT: 17.95 min Scan# 2655
 Delta R.T. 0.06 min
 Lab File: BF108115.D
 Acq: 13 Aug 2018 14:49

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.8	17.9	26.9
138	18.2	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

