

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082118\
 Data File : BF108370.D
 Acq On : 22 Aug 2018 6:42
 Operator : JU/SJ
 Sample : J4282-09DL 5X
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Aug 22 10:53:35 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 21 15:20:21 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.01	152	156318	20.00	ng	0.00
21) Naphthalene-d8	8.29	136	582368	20.00	ng	-0.01
38) Acenaphthene-d10	10.05	164	255103	20.00	ng	-0.02
63) Phenanthrene-d10	11.55	188	407508	20.00	ng	-0.01
75) Chrysene-d12	14.20	240	353741	20.00	ng	-0.02
86) Perylene-d12	15.76	264	309678	20.00	ng	-0.02

System Monitoring Compounds

5) 2-Fluorophenol	5.62	112	95451	11.06	ng	-0.01
7) Phenol-d6	6.61	99	129649	11.30	ng	-0.02
23) Nitrobenzene-d5	7.56	82	79712	7.64	ng	-0.02
41) 2,4,6-Tribromophenol	10.84	330	22462	8.83	ng	-0.02
44) 2-Fluorobiphenyl	9.36	172	153488	9.66	ng	-0.02
78) Terphenyl-d14	13.13	244	111810	8.04	ng	-0.02

Target Compounds

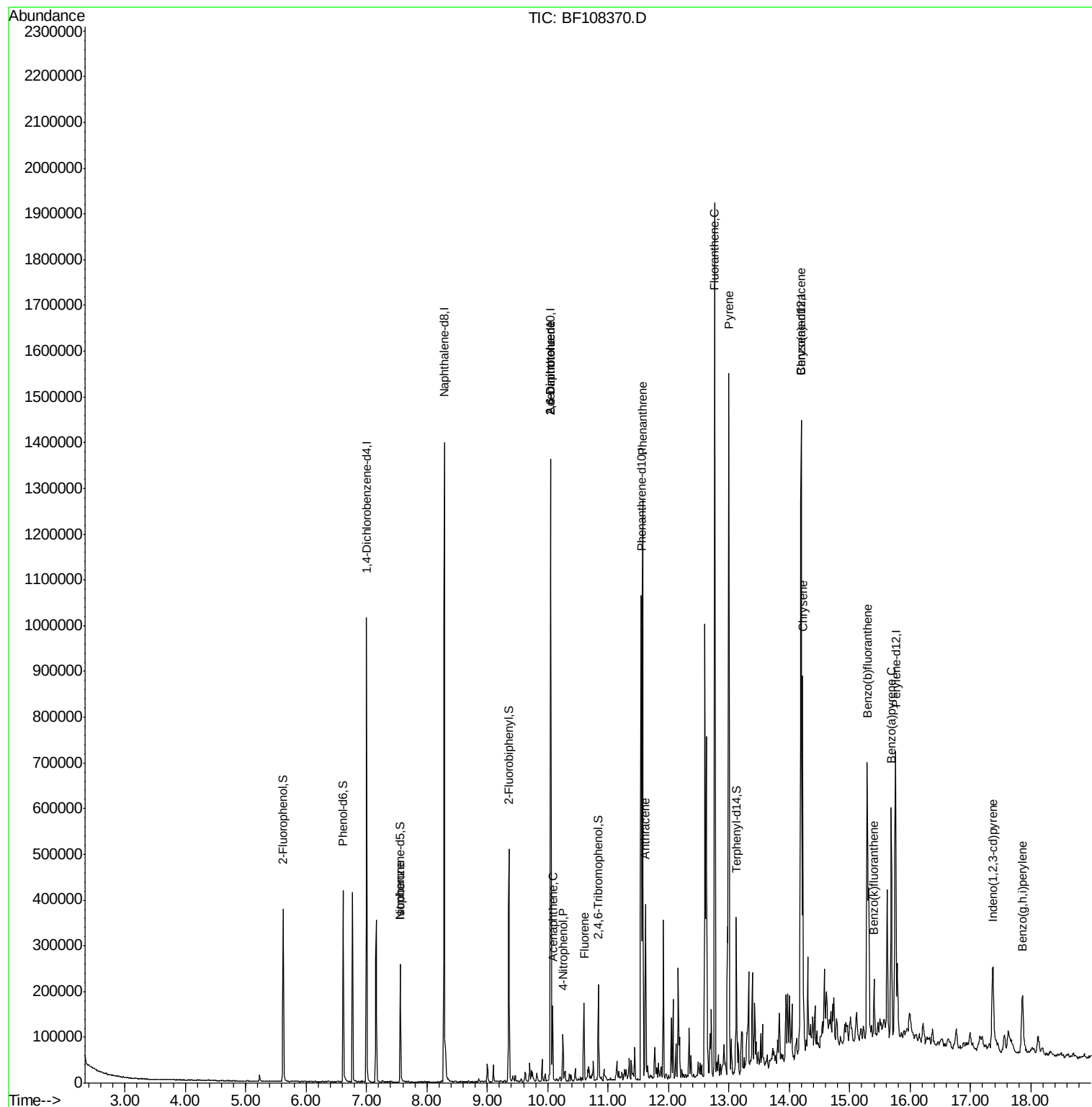
						Qvalue
25) Isophorone	7.56	82	79711	4.007	ng	# 64
50) 2,6-Dinitrotoluene	10.05	165	33919	9.123	ng	# 25
51) Acenaphthene	10.08	154	33486	2.326	ng	97
55) 4-Nitrophenol	10.25	139	13525	4.391	ng	# 10
56) 2,4-Dinitrotoluene	10.05	165	33919	7.088	ng	# 23
57) Fluorene	10.60	166	50044	3.031	ng	98
70) Phenanthrene	11.57	178	448336	23.326	ng	99
71) Anthracene	11.62	178	148649	7.546	ng	98
74) Fluoranthene	12.77	202	762275	36.339	ng	96
77) Pyrene	13.00	202	656029	29.293	ng	100
80) Benzo(a)anthracene	14.19	228	370018	18.226	ng	99
82) Chrysene	14.22	228	280422	15.067	ng	98
85) Indeno(1,2,3-cd)pyrene	17.36	276	123467	7.656	ng	# 88
87) Benzo(b)fluoranthene	15.29	252	496983	26.857	ng	96
88) Benzo(k)fluoranthene	15.41	252	58346	3.430	ng	94
89) Benzo(a)pyrene	15.69	252	247972	14.965	ng	96
91) Benzo(a,h,i)perylene	17.86	276	112453	8.330	ng	# 92

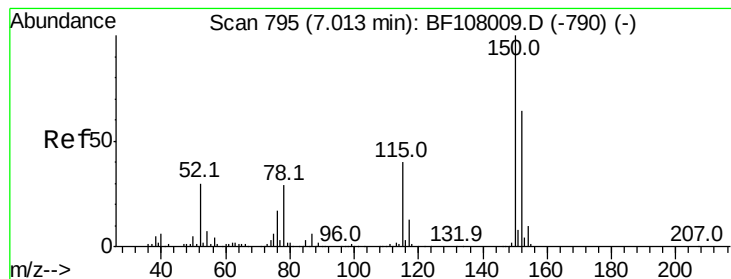
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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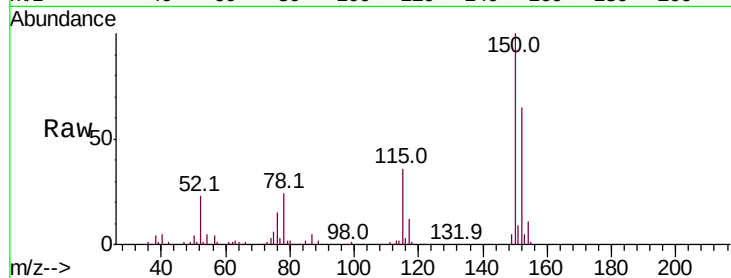


#1

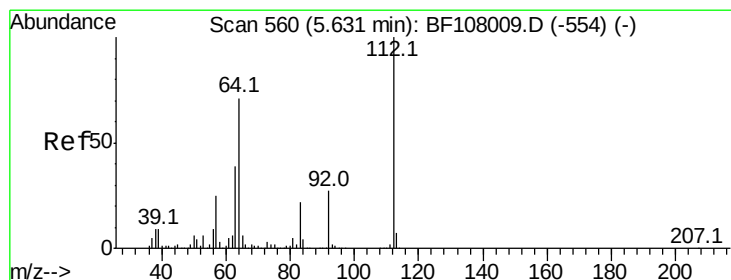
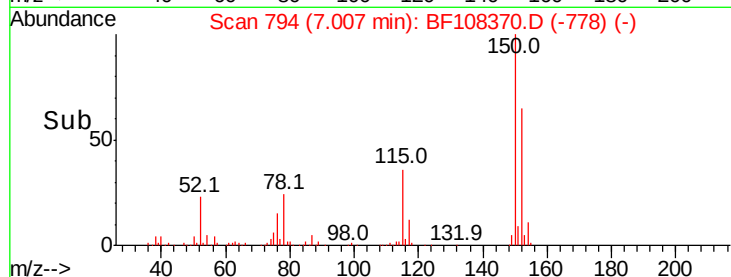
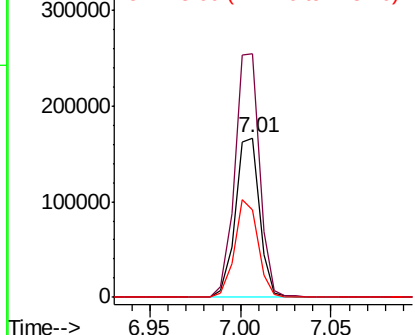
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.01 min Scan# 794
Delta R.T. -0.01 min
Lab File: BF108370.D
Acq: 22 Aug 2018 6:42

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 156318
Ion Ratio Lower Upper
152 100
150 153.0 124.6 186.8
115 55.1 50.1 75.1



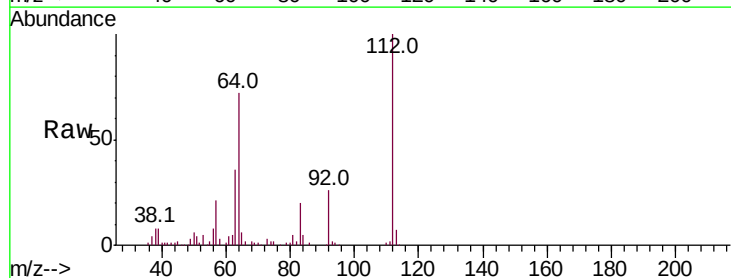
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



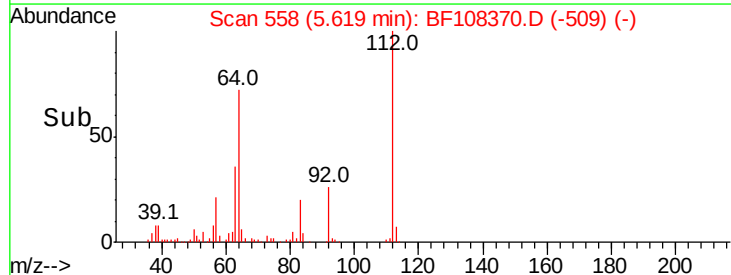
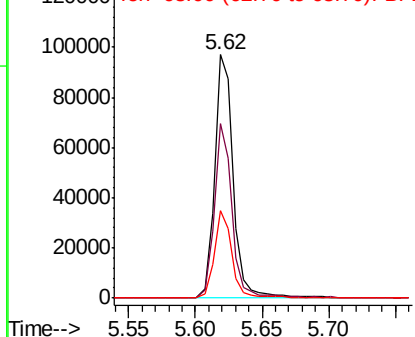
#5

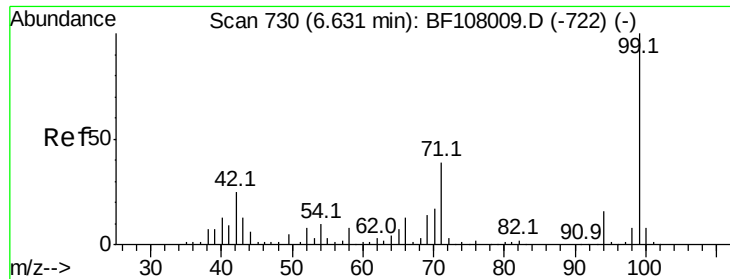
2-Fluorophenol
Concen: 11.055 ng
RT: 5.62 min Scan# 558
Delta R.T. -0.01 min
Lab File: BF108370.D
Acq: 22 Aug 2018 6:42

Tgt Ion:112 Resp: 95451
Ion Ratio Lower Upper
112 100
64 71.9 47.9 71.9#
63 35.8 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: 11.300 ng

RT: 6.61 min Scan# 727

Delta R.T. -0.02 min

Lab File: BF108370.D

Acq: 22 Aug 2018 6:42

Instrument :

BNA_F

ClientSampled :

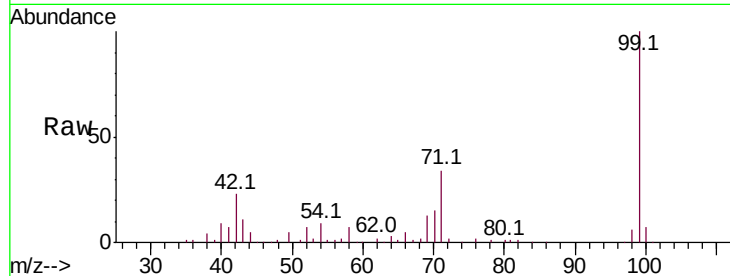
Tot Ion: 99 Resp: 129649

Ion Ratio Lower Upper

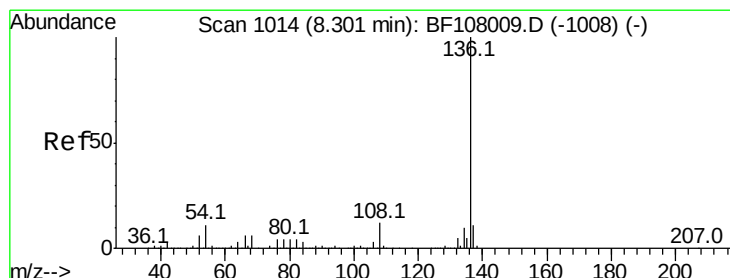
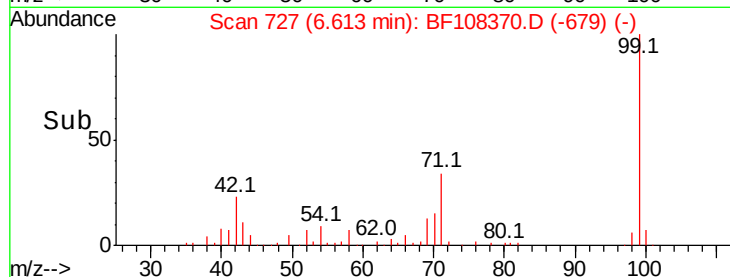
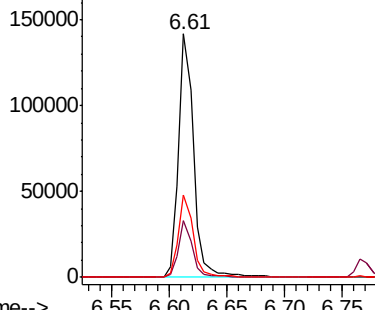
99 100

42 23.2 14.5 21.7#

71 34.0 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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.29 min Scan# 1012

Delta R.T. -0.01 min

Lab File: BF108370.D

Acq: 22 Aug 2018 6:42

Tgt Ion: 136 Resp: 582368

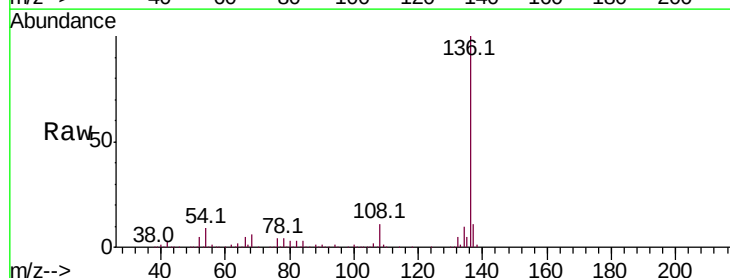
Ion Ratio Lower Upper

136 100

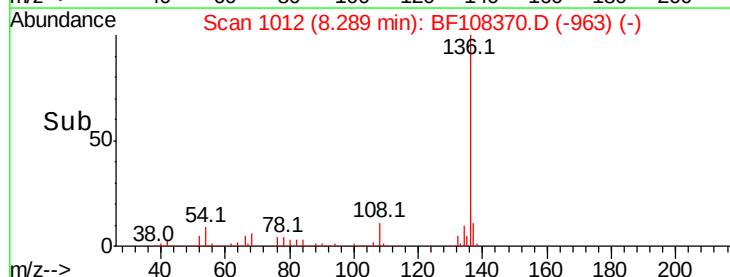
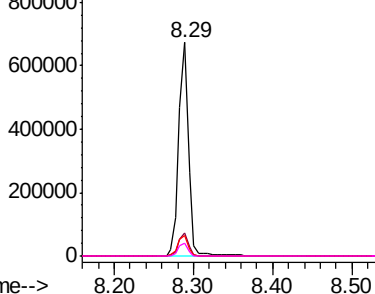
137 11.1 8.9 13.3

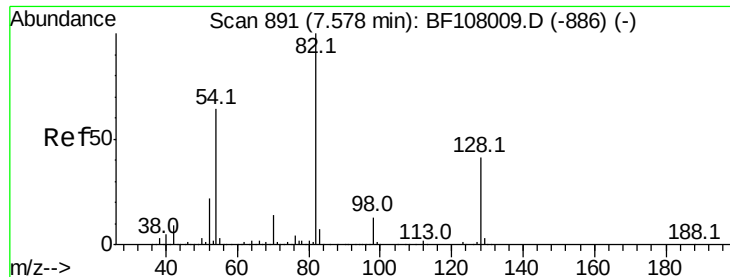
54 9.4 6.6 9.8

68 5.8 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

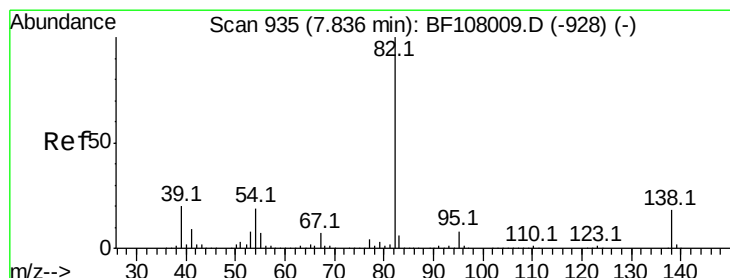
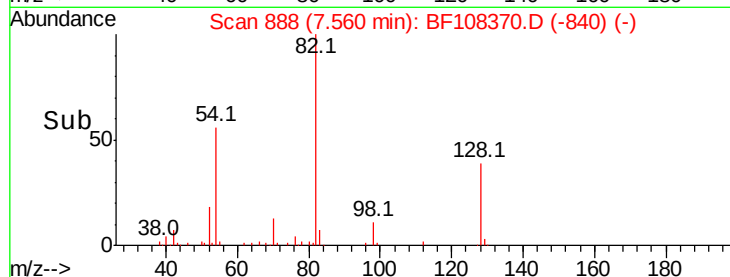
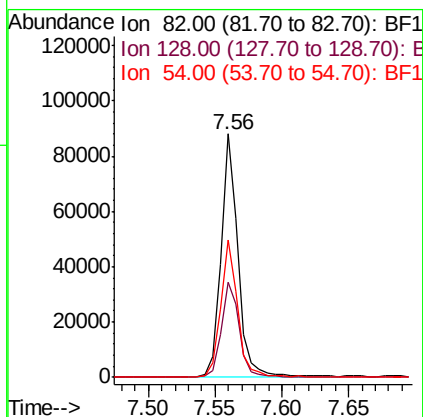
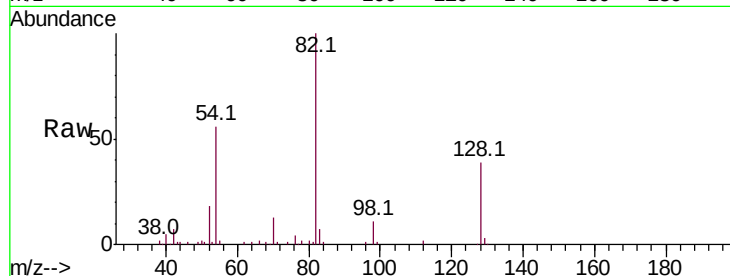




#23
 Nitrobenzene-d5
 Concen: 7.638 ng
 RT: 7.56 min Scan# 888
 Delta R.T. -0.02 min
 Lab File: BF108370.D
 Acq: 22 Aug 2018 6:42

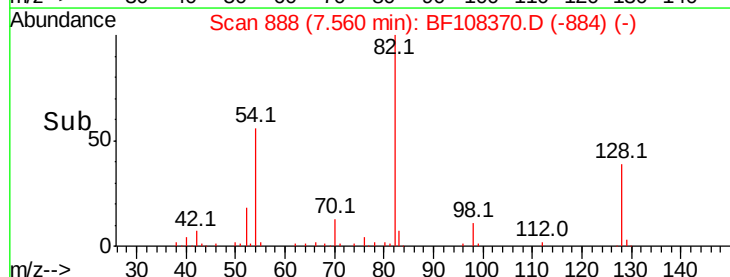
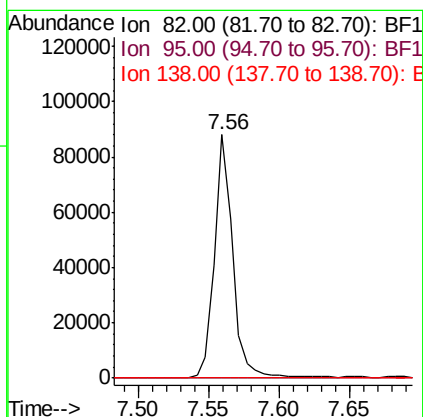
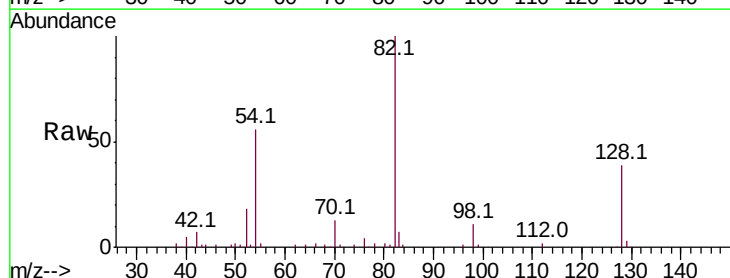
Instrument :
 BNA_F
 ClientSampled :

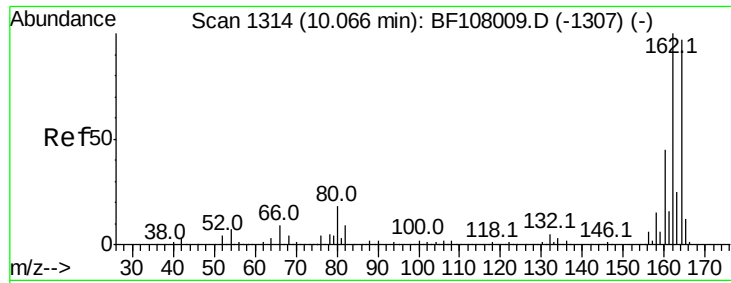
Tot Ion	82	Resp	79712
Ion Ratio	Lower	Upper	
82	100		
128	39.1	36.1	54.1
54	56.5	41.4	62.2



#25
 Isophorone
 Concen: 4.007 ng
 RT: 7.56 min Scan# 888
 Delta R.T. -0.28 min
 Lab File: BF108370.D
 Acq: 22 Aug 2018 6:42

Tgt Ion	82	Resp	79711
Ion Ratio	Lower	Upper	
82	100		
95	0.0	5.2	7.8#
138	0.0	14.9	22.3#

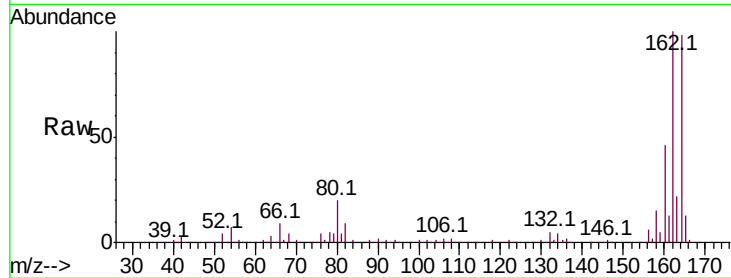




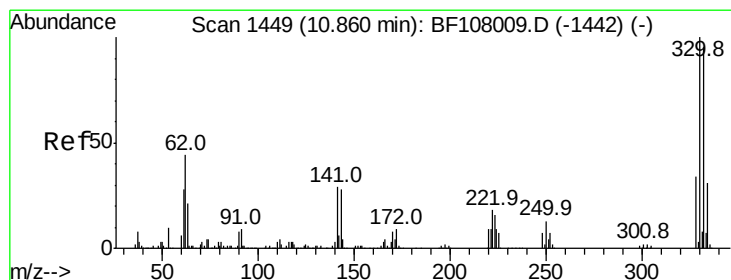
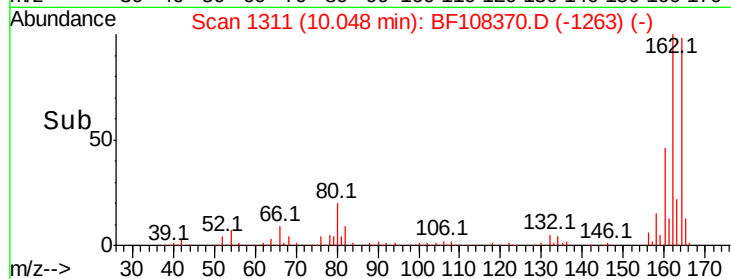
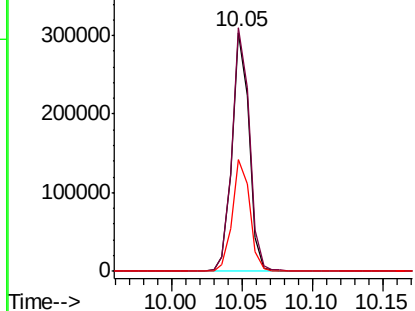
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.05 min Scan# 1311
Delta R.T. -0.02 min
Lab File: BF108370.D
Acq: 22 Aug 2018 6:42

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
164	100		
162	102.0	86.1	129.1
160	46.6	38.3	57.5

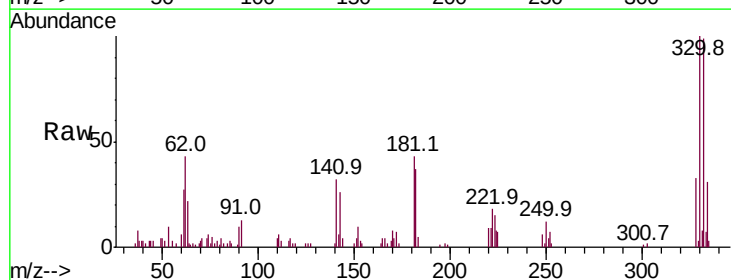


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

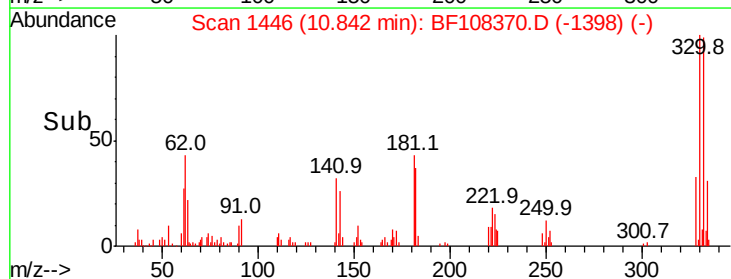
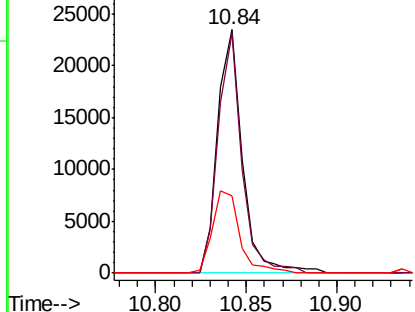


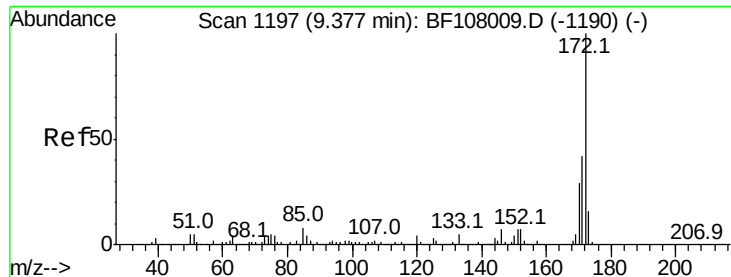
#41
2,4,6-Tribromophenol
Concen: 8.827 ng
RT: 10.84 min Scan# 1446
Delta R.T. -0.02 min
Lab File: BF108370.D
Acq: 22 Aug 2018 6:42

Tgt Ion	Ratio	Lower	Upper
330	100		
332	93.9	77.0	115.6
141	37.4	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: 9.660 ng

RT: 9.36 min Scan# 1194

Delta R.T. -0.02 min

Lab File: BF108370.D

Acq: 22 Aug 2018 6:42

Instrument :

BNA_F

ClientSampled :

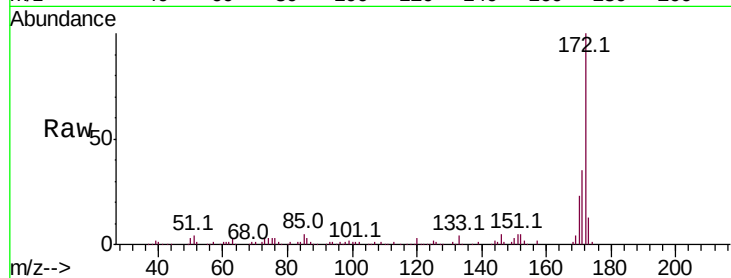
Tot Ion:172 Resp: 153488

Ion Ratio Lower Upper

172 100

171 34.8 29.7 44.5

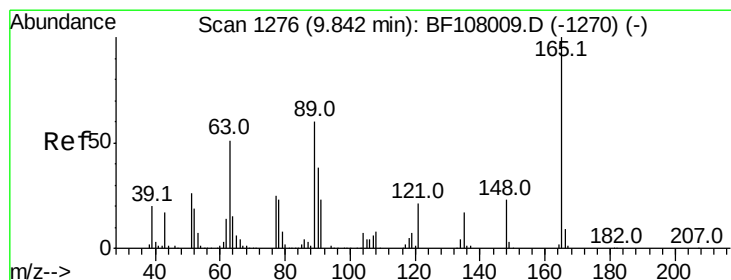
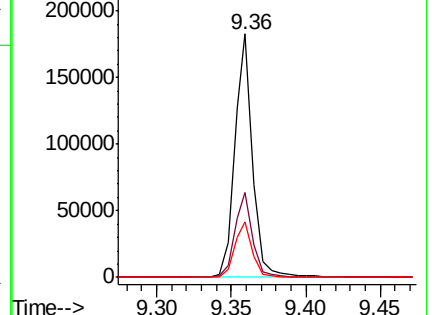
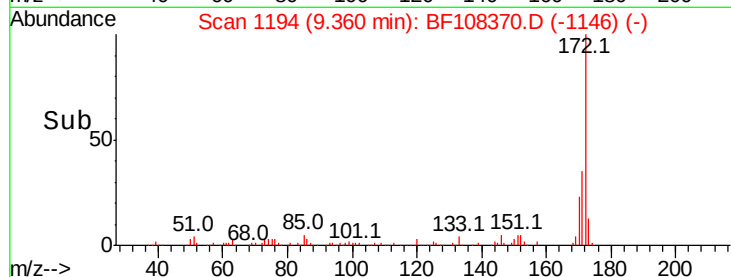
170 22.9 19.6 29.4



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



#50

2,6-Dinitrotoluene

Concen: 9.123 ng

RT: 10.05 min Scan# 1311

Delta R.T. 0.21 min

Lab File: BF108370.D

Acq: 22 Aug 2018 6:42

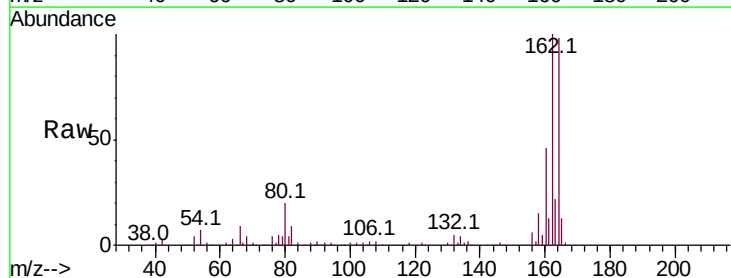
Tgt Ion:165 Resp: 33919

Ion Ratio Lower Upper

165 100

63 1.2 44.7 67.1#

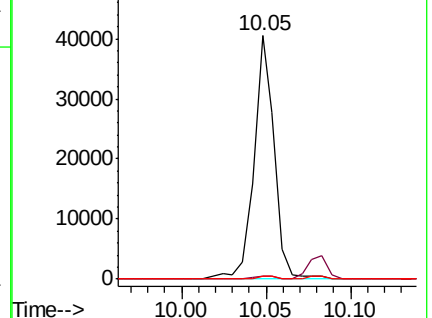
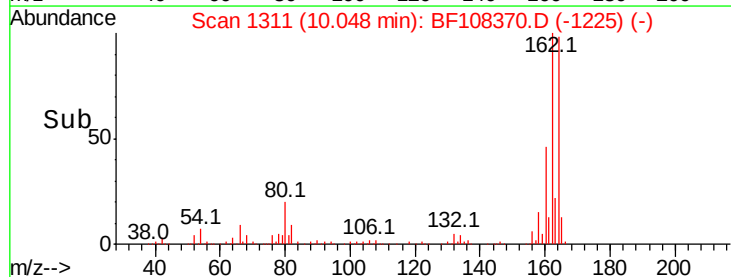
89 1.4 44.0 66.0#

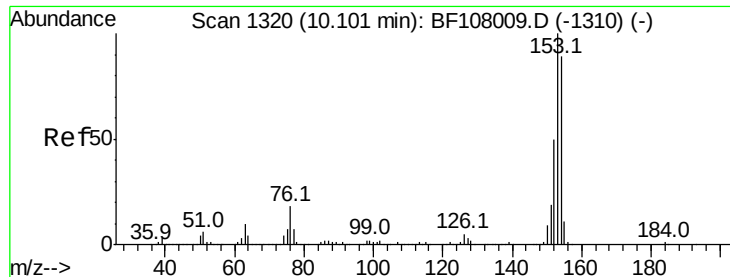


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1





#51

Acenaphthene

Concen: 2.326 ng

RT: 10.08 min Scan# 1317

Delta R.T. -0.02 min

Lab File: BF108370.D

Acq: 22 Aug 2018 6:42

Instrument :

BNA_F

ClientSampleId :

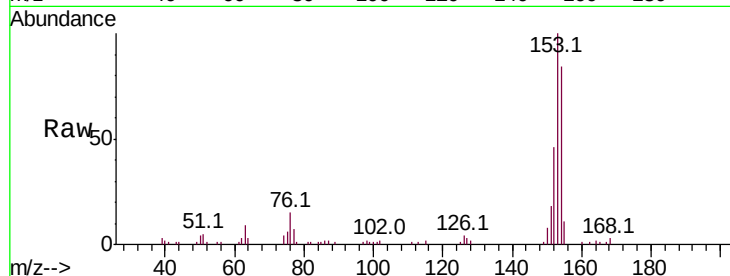
Tot Ion:154 Resp: 33486

Ion Ratio Lower Upper

154 100

153 118.5 91.2 136.8

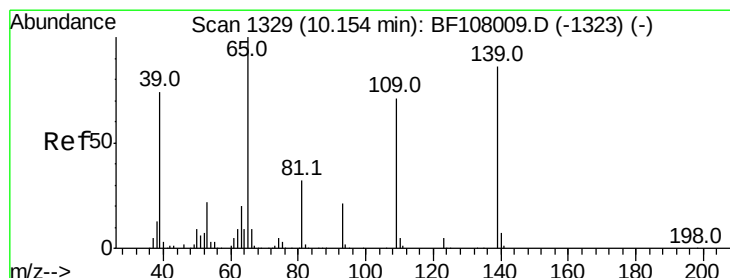
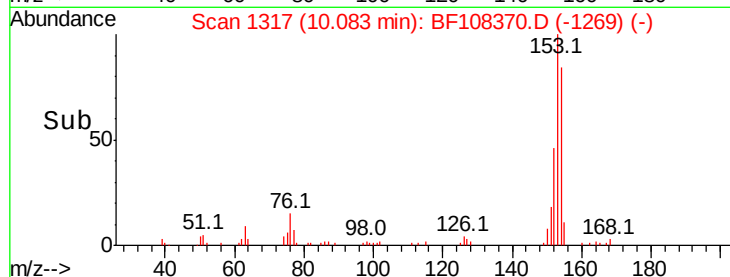
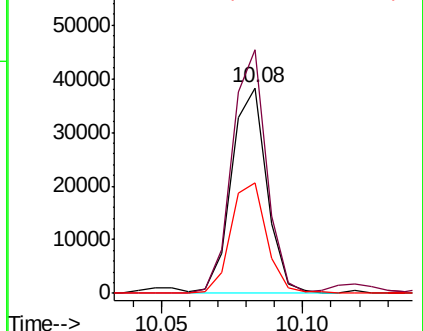
152 54.1 43.8 65.8



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#55

4-Nitrophenol

Concen: 4.391 ng

RT: 10.25 min Scan# 1346

Delta R.T. 0.10 min

Lab File: BF108370.D

Acq: 22 Aug 2018 6:42

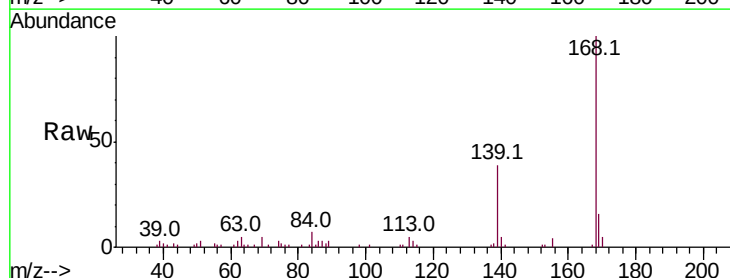
Tgt Ion:139 Resp: 13525

Ion Ratio Lower Upper

139 100

109 0.0 48.4 88.4#

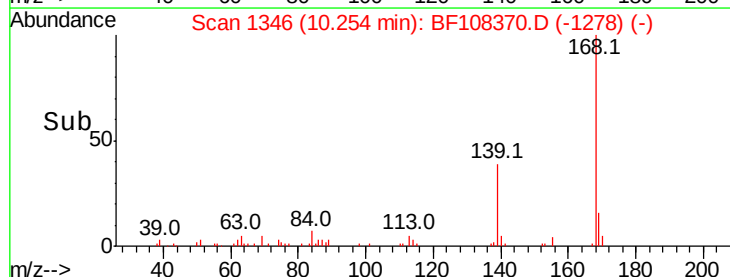
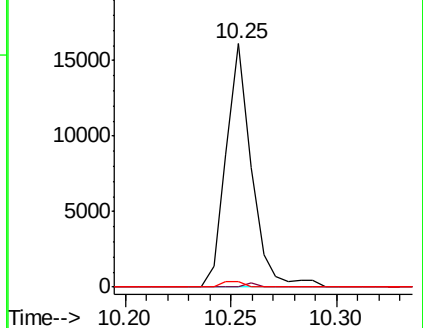
65 2.1 72.6 112.6#

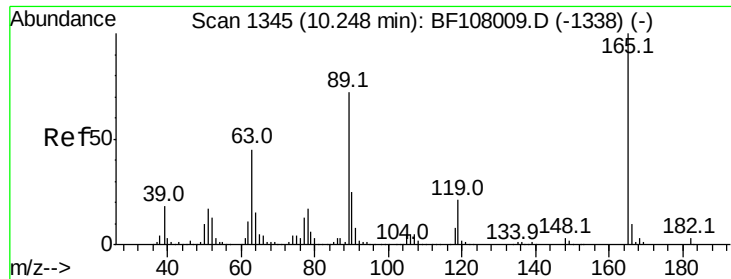


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1

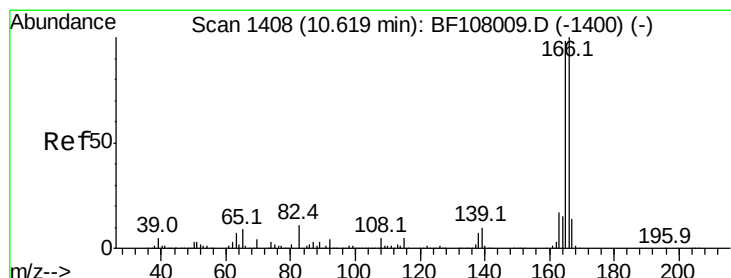
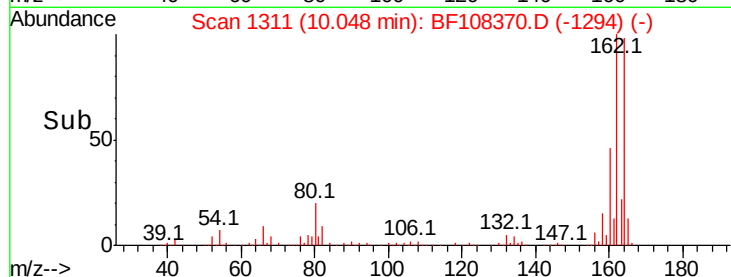
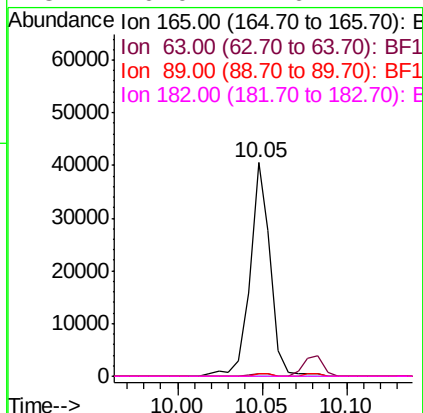
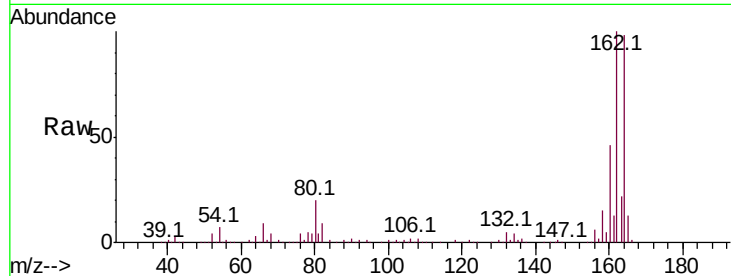




#56
2,4-Dinitrotoluene
Concen: 7.088 ng
RT: 10.05 min Scan# 1311
Delta R.T. -0.20 min
Lab File: BF108370.D
Acq: 22 Aug 2018 6:42

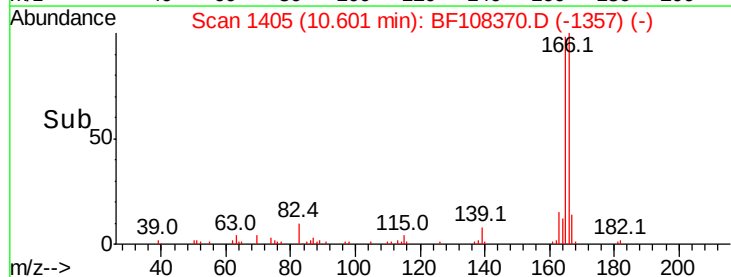
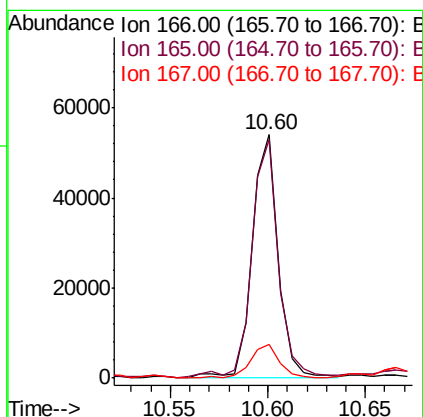
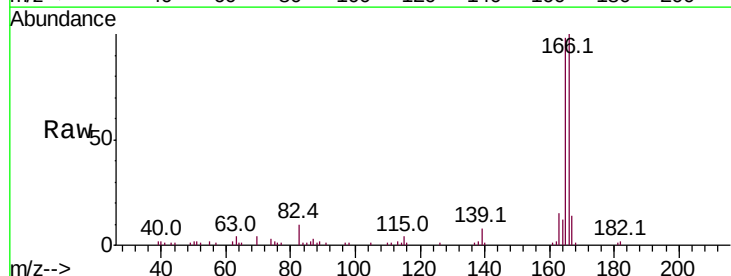
Instrument :
BNA_F
ClientSampleId :

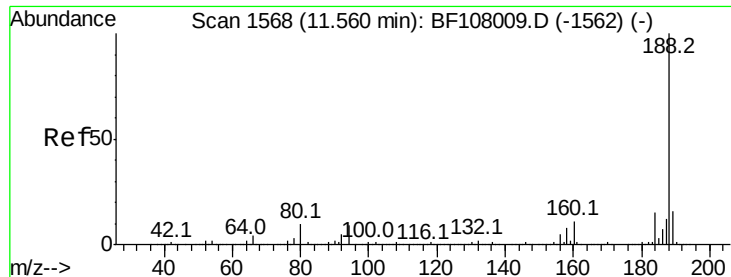
Tot Ion	Ratio	Lower	Upper
165	100		
63	1.2	36.4	54.6#
89	1.4	57.8	86.6#
182	0.0	1.6	2.4#



#57
Fluorene
Concen: 3.031 ng
RT: 10.60 min Scan# 1405
Delta R.T. -0.02 min
Lab File: BF108370.D
Acq: 22 Aug 2018 6:42

Tgt Ion	Ratio	Lower	Upper
166	100		
165	97.8	79.8	119.8
167	13.7	10.6	16.0

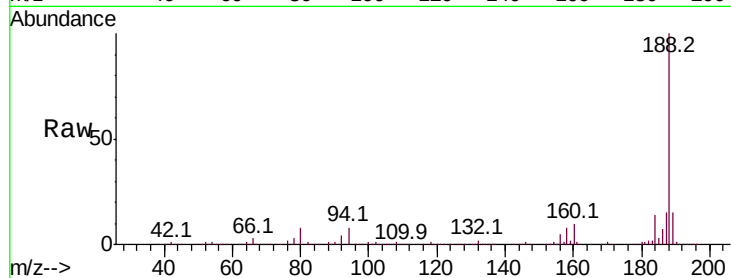




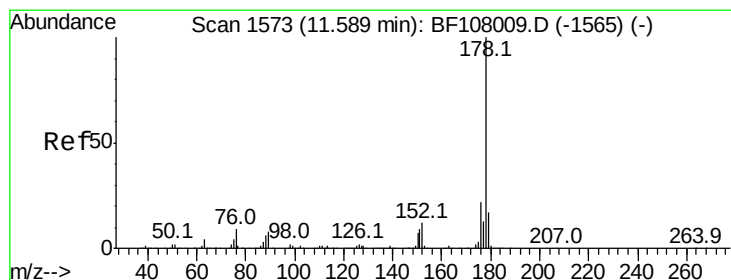
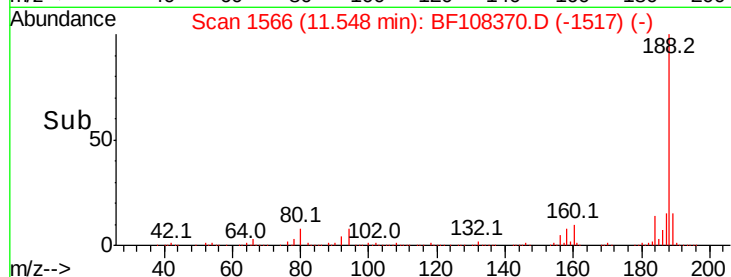
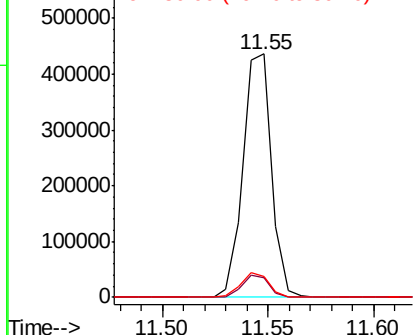
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.55 min Scan# 1566
Delta R.T. -0.01 min
Lab File: BF108370.D
Acq: 22 Aug 2018 6:42

Instrument :
BNA_F
ClientSampled :

Tot Ion	Ratio	Lower	Upper
188	100		
94	7.8	8.5	12.7#
80	8.5	9.2	13.8#

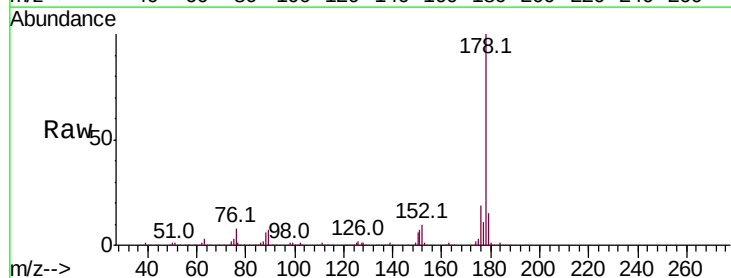


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF1
Ion 80.00 (79.70 to 80.70): BF1

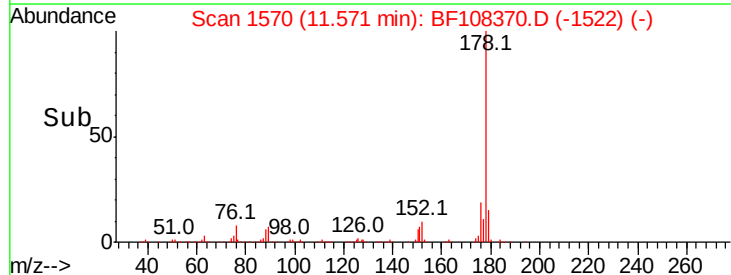
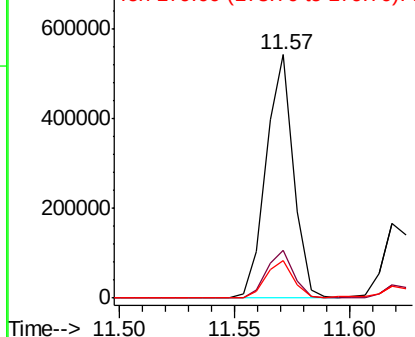


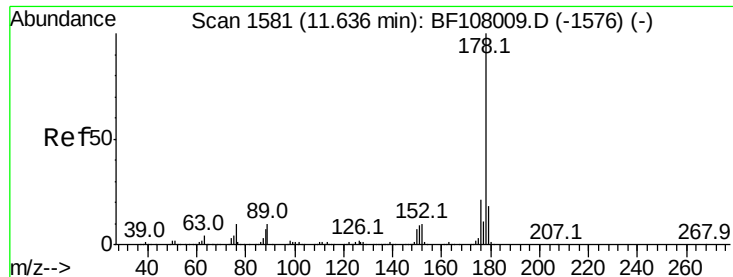
#70
Phenanthrene
Concen: 23.326 ng
RT: 11.57 min Scan# 1570
Delta R.T. -0.02 min
Lab File: BF108370.D
Acq: 22 Aug 2018 6:42

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.8	23.8
179	15.3	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

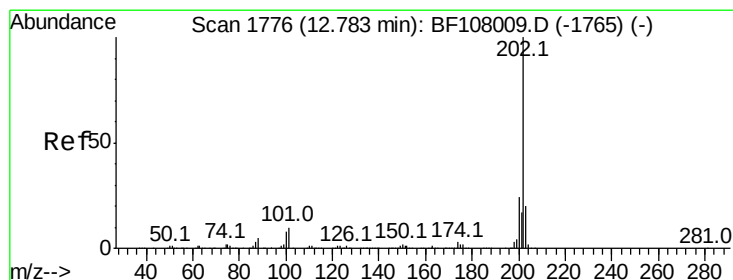
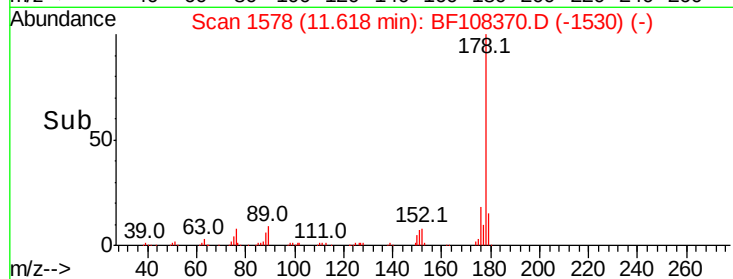
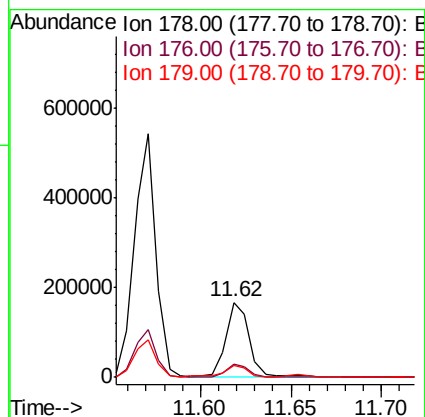
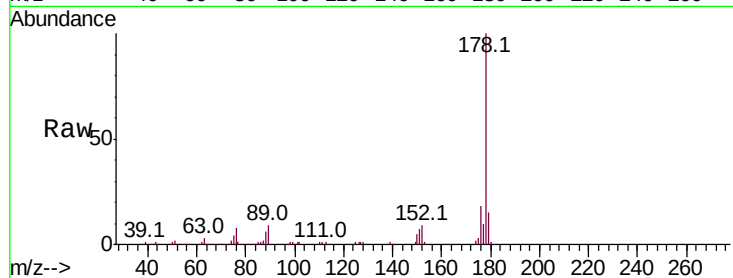




#71
 Anthracene
 Concen: 7.546 ng
 RT: 11.62 min Scan# 1578
 Delta R.T. -0.02 min
 Lab File: BF108370.D
 Acq: 22 Aug 2018 6:42

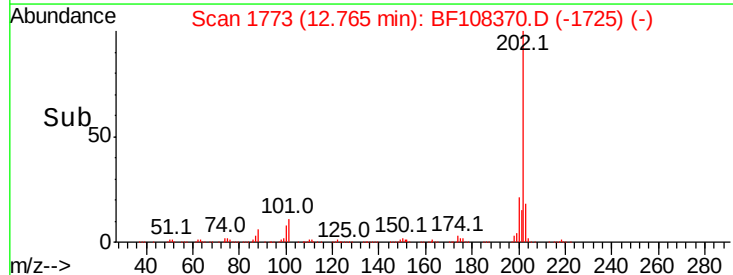
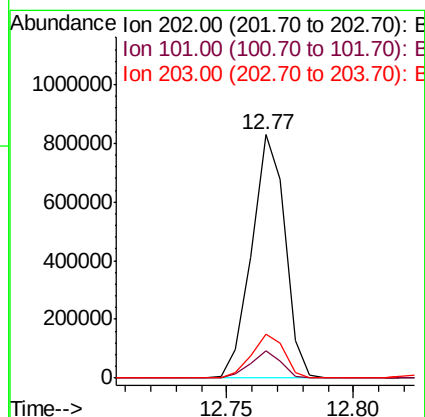
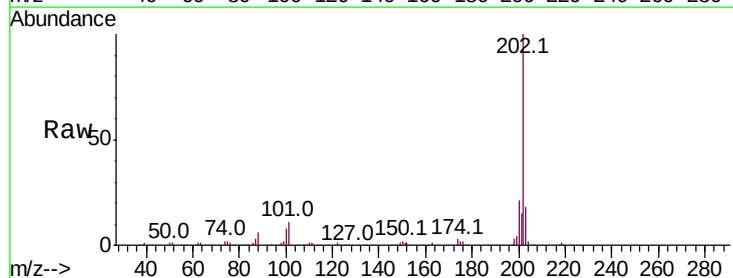
Instrument :
 BNA_F
 ClientSampleId :

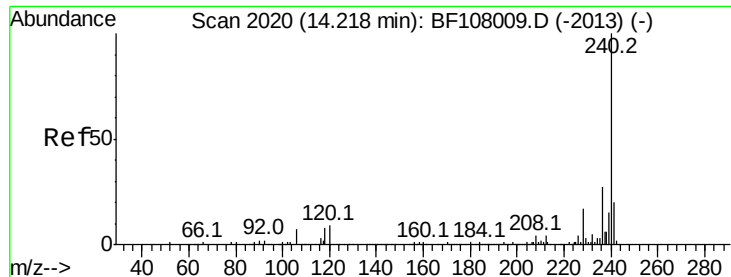
Tot Ion	Ratio	Lower	Upper
178	100		
176	18.1	15.4	23.2
179	15.4	12.6	19.0



#74
 Fluoranthene
 Concen: 36.339 ng
 RT: 12.77 min Scan# 1773
 Delta R.T. -0.02 min
 Lab File: BF108370.D
 Acq: 22 Aug 2018 6:42

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.0	0.0	34.1
203	17.8	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.20 min Scan# 2017

Delta R.T. -0.02 min

Lab File: BF108370.D

Acq: 22 Aug 2018 6:42

Instrument :

BNA_F

ClientSampled :

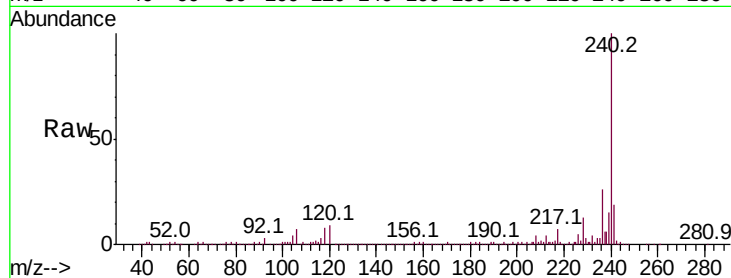
Tot Ion:240 Resp: 353741

Ion Ratio Lower Upper

240 100

120 8.8 9.5 14.3#

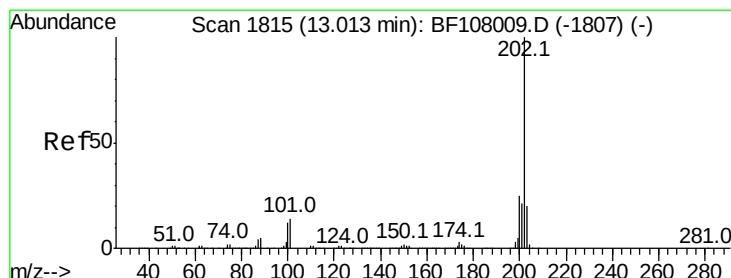
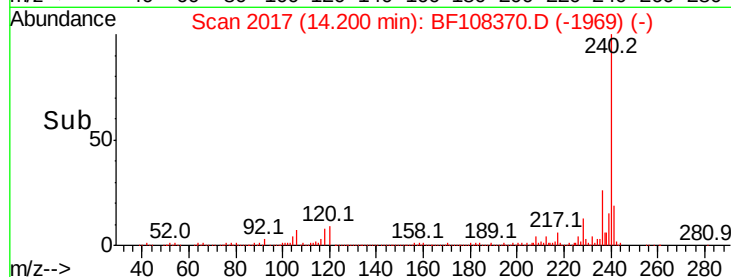
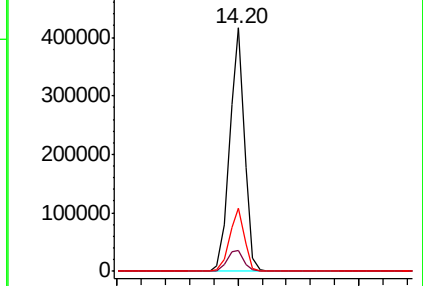
236 25.7 20.7 31.1



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



#77

Pyrene

Concen: 29.293 ng

RT: 13.00 min Scan# 1813

Delta R.T. -0.01 min

Lab File: BF108370.D

Acq: 22 Aug 2018 6:42

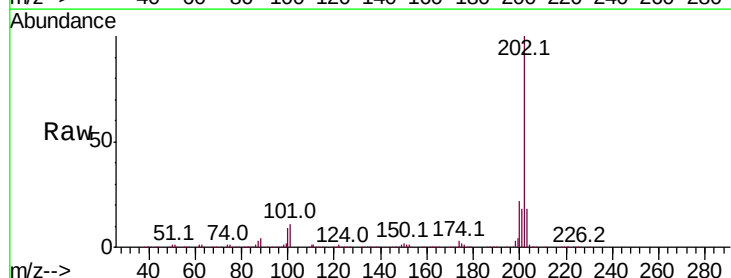
Tgt Ion:202 Resp: 656029

Ion Ratio Lower Upper

202 100

200 21.7 17.4 26.2

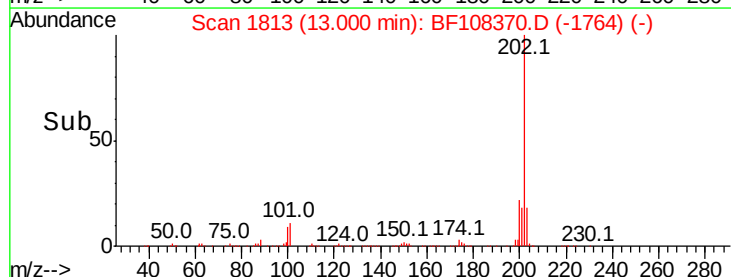
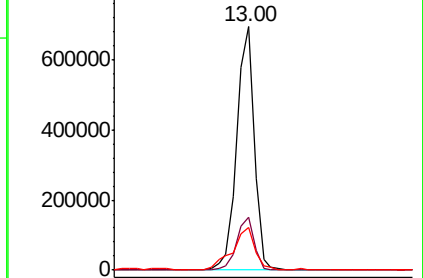
203 17.7 14.3 21.5

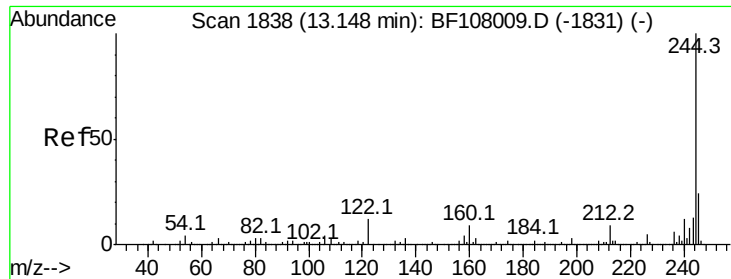


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

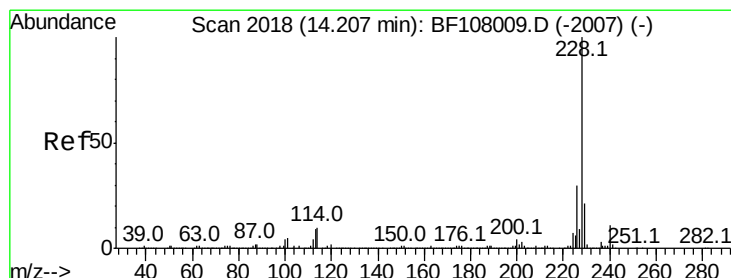
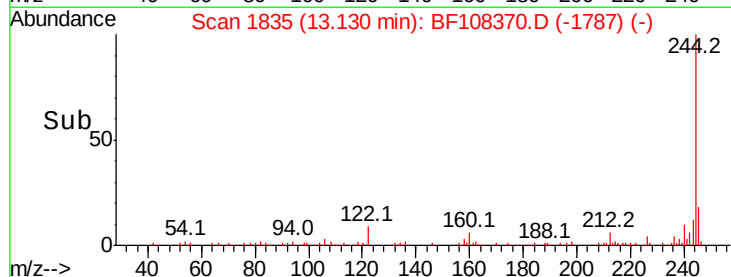
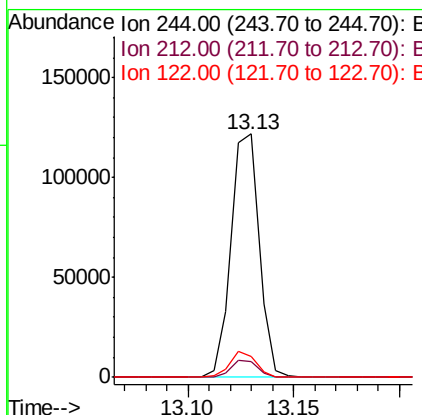
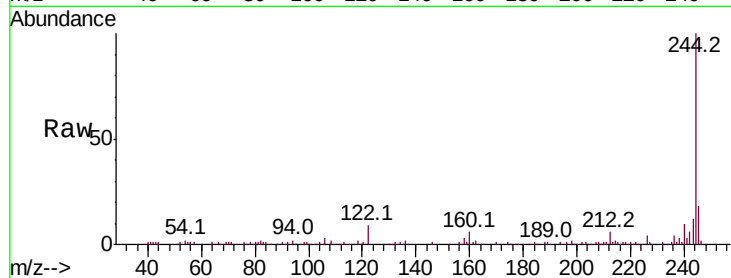




#78
 Terphenyl-d14
 Concen: 8.037 ng
 RT: 13.13 min Scan# 1835
 Delta R.T. -0.02 min
 Lab File: BF108370.D
 Acq: 22 Aug 2018 6:42

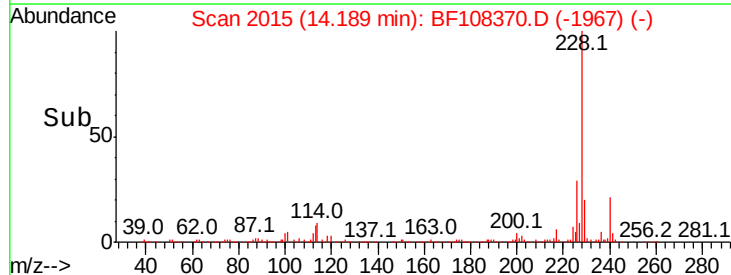
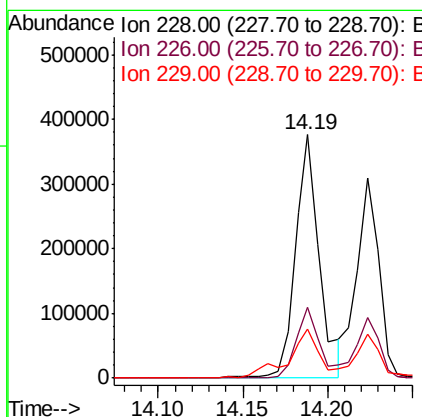
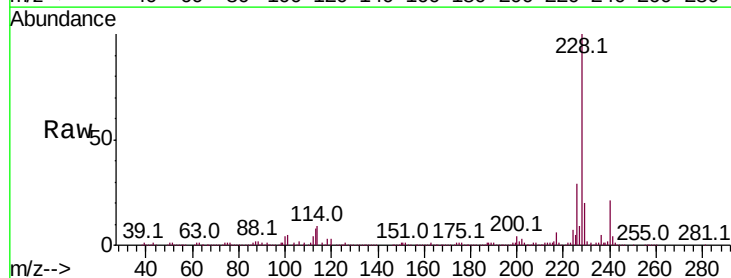
Instrument :
 BNA_F
 ClientSampleId :

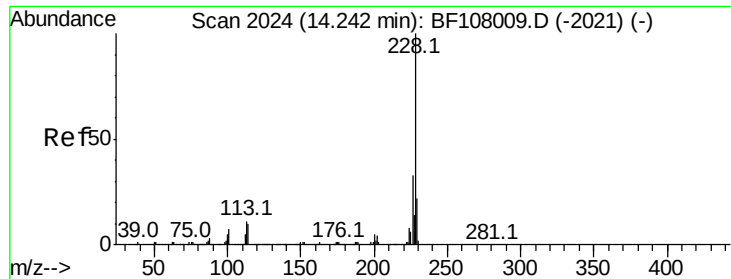
Tot Ion:244 Resp: 111810
 Ion Ratio Lower Upper
 244 100
 212 6.4 5.4 8.0
 122 8.7 11.0 16.4#



#80
 Benzo(a)anthracene
 Concen: 18.226 ng
 RT: 14.19 min Scan# 2015
 Delta R.T. -0.02 min
 Lab File: BF108370.D
 Acq: 22 Aug 2018 6:42

Tgt Ion:228 Resp: 370018
 Ion Ratio Lower Upper
 228 100
 226 29.0 22.6 33.8
 229 20.2 15.8 23.6

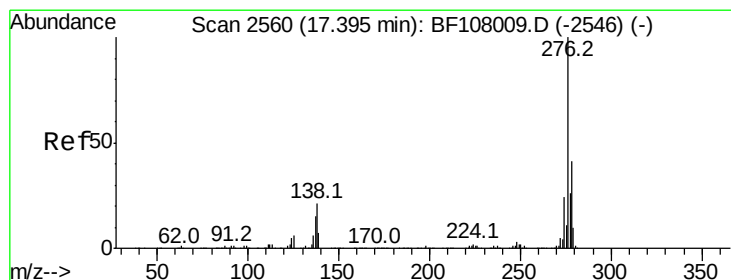
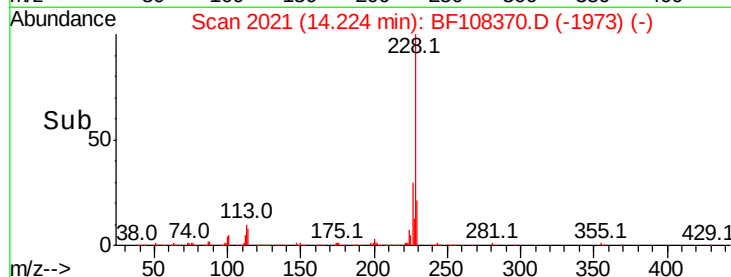
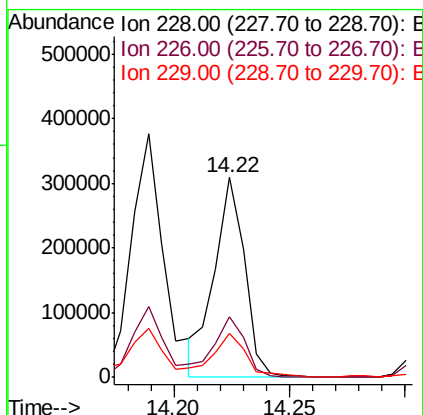
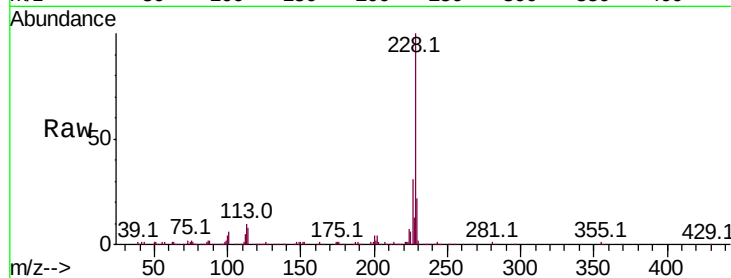




#82
Chrysene
Concen: 15.067 ng
RT: 14.22 min Scan# 2021
Delta R.T. -0.02 min
Lab File: BF108370.D
Acq: 22 Aug 2018 6:42

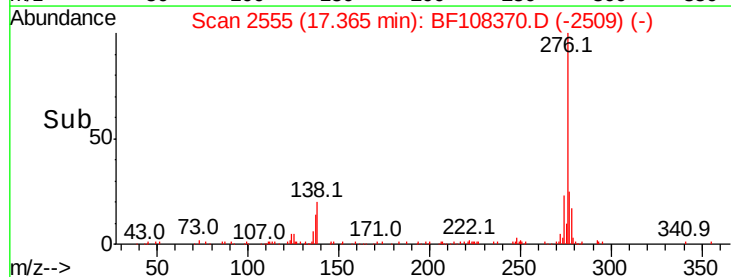
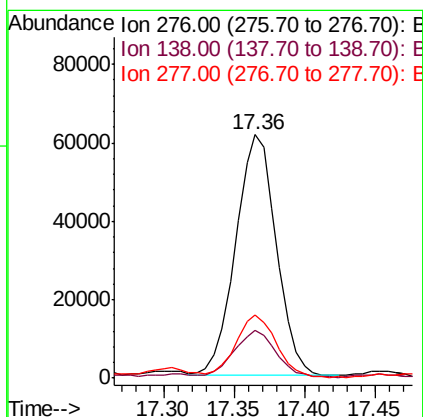
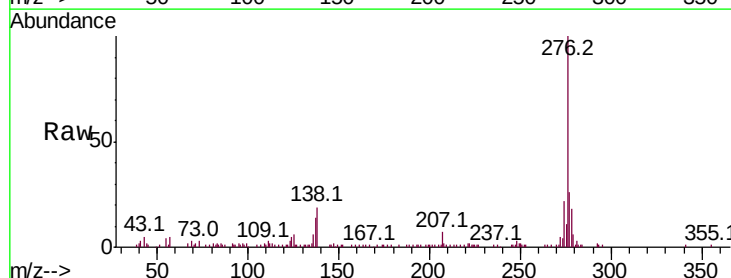
Instrument :
BNA_F
ClientSampleId :

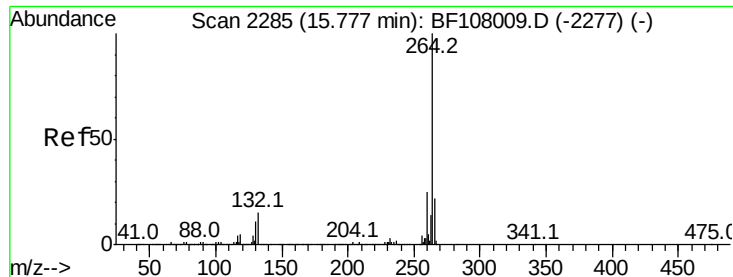
Tot Ion:228 Resp: 280422
Ion Ratio Lower Upper
228 100
226 30.6 25.0 37.6
229 21.8 16.2 24.4



#85
Indeno(1,2,3-cd)pyrene
Concen: 7.656 ng
RT: 17.36 min Scan# 2555
Delta R.T. -0.03 min
Lab File: BF108370.D
Acq: 22 Aug 2018 6:42

Tgt Ion:276 Resp: 123467
Ion Ratio Lower Upper
276 100
138 20.9 25.0 37.6#
277 26.5 20.1 30.1

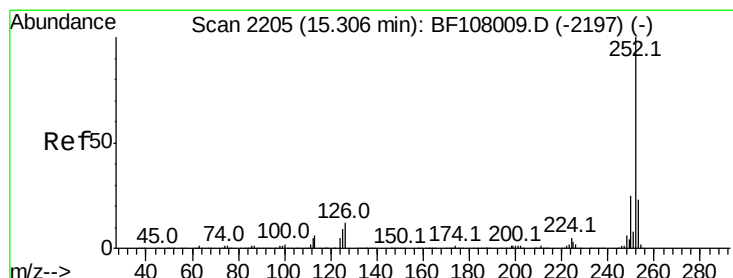
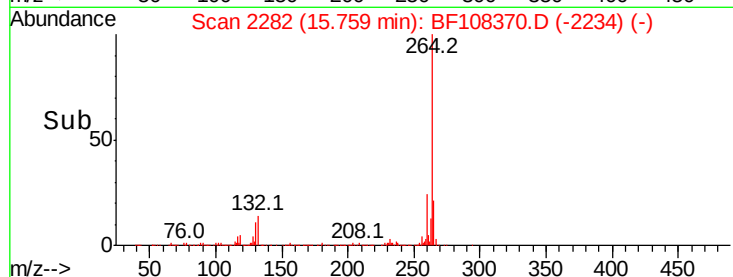
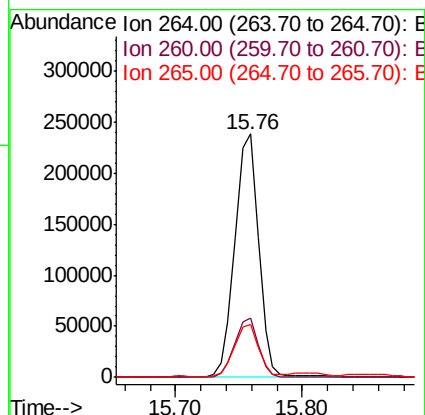
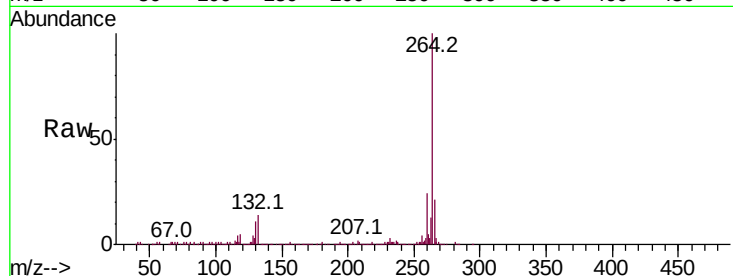




#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.76 min Scan# 2282
Delta R.T. -0.02 min
Lab File: BF108370.D
Acq: 22 Aug 2018 6:42

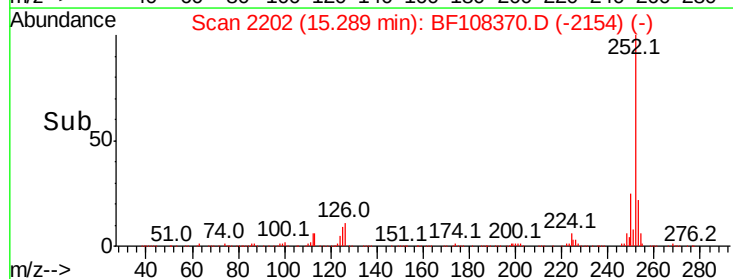
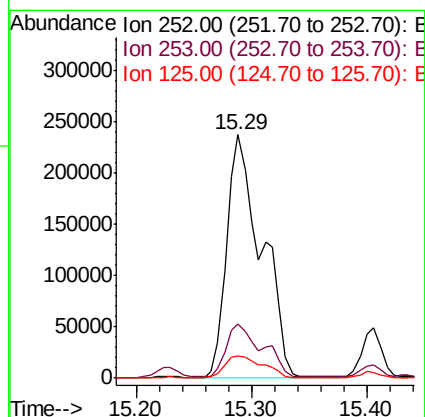
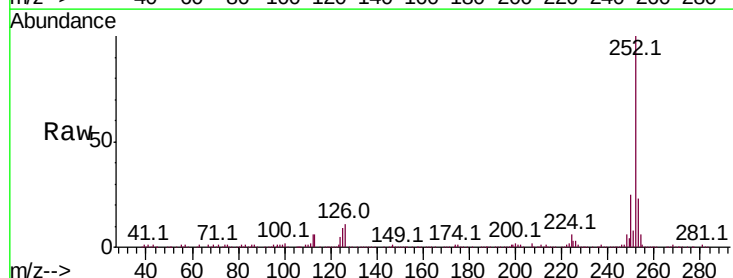
Instrument :
BNA_F
ClientSampleId :

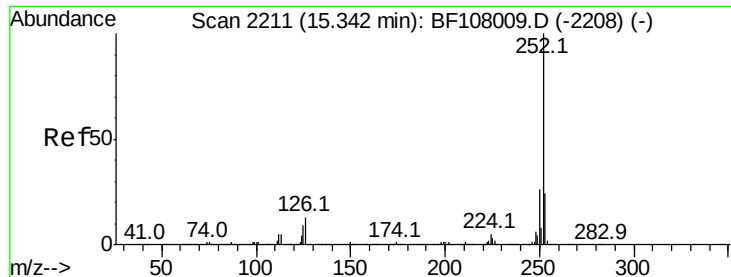
Tot Ion:264 Resp: 309678
Ion Ratio Lower Upper
264 100
260 24.3 19.2 28.8
265 21.5 17.5 26.3



#87
Benzo(b)fluoranthene
Concen: 26.857 ng
RT: 15.29 min Scan# 2202
Delta R.T. -0.02 min
Lab File: BF108370.D
Acq: 22 Aug 2018 6:42

Tgt Ion:252 Resp: 496983
Ion Ratio Lower Upper
252 100
253 22.5 17.0 25.6
125 9.2 9.0 13.6

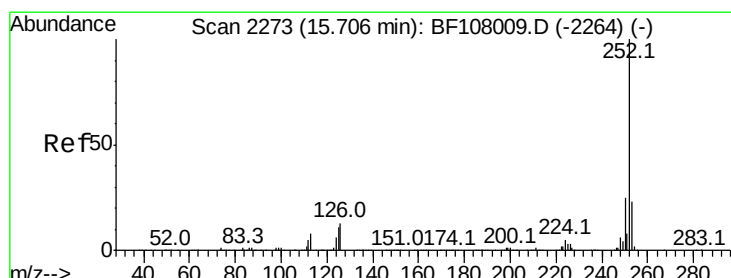
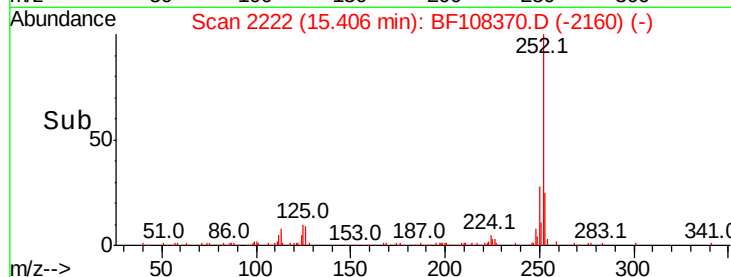
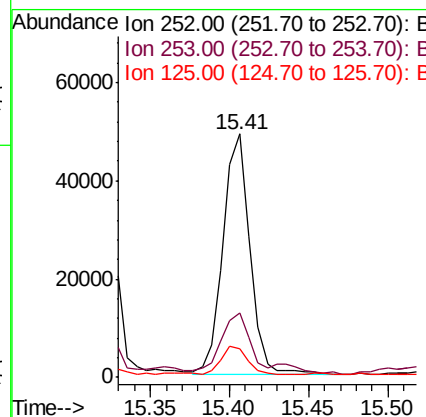
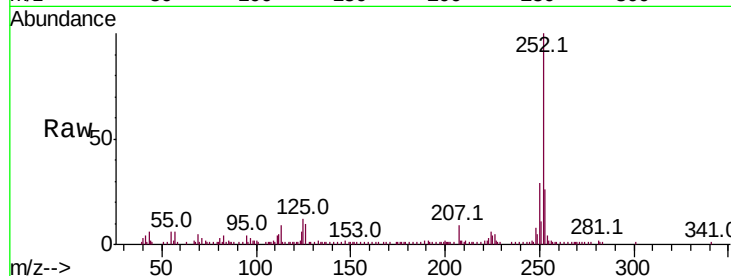




#88
Benzo(k)fluoranthene
Concen: 3.430 ng
RT: 15.41 min Scan# 2222
Delta R.T. 0.06 min
Lab File: BF108370.D
Acq: 22 Aug 2018 6:42

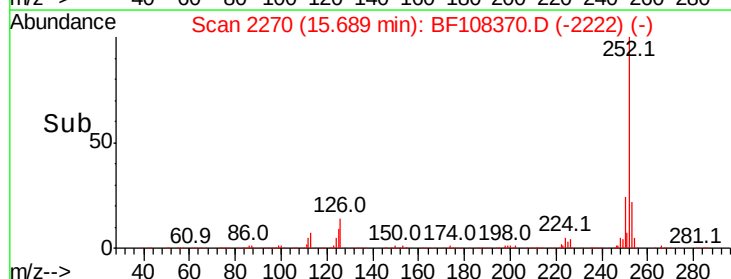
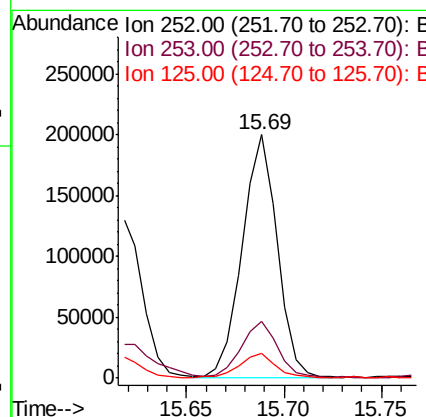
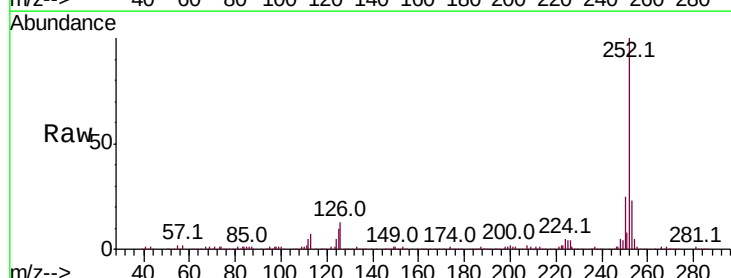
Instrument :
BNA_F
ClientSampleId :

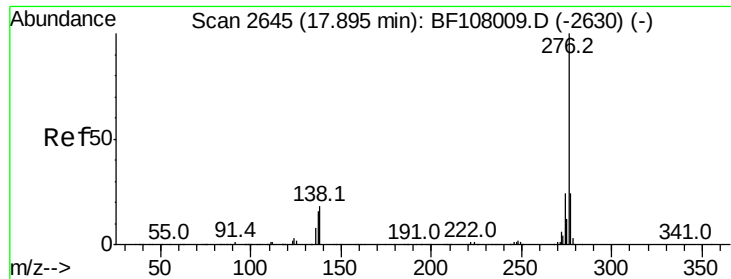
Tot Ion	Ratio	Lower	Upper
252	100		
253	26.4	17.9	26.9
125	11.9	10.2	15.2



#89
Benzo(a)pyrene
Concen: 14.965 ng
RT: 15.69 min Scan# 2270
Delta R.T. -0.02 min
Lab File: BF108370.D
Acq: 22 Aug 2018 6:42

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.1	25.7
125	9.9	9.8	14.6

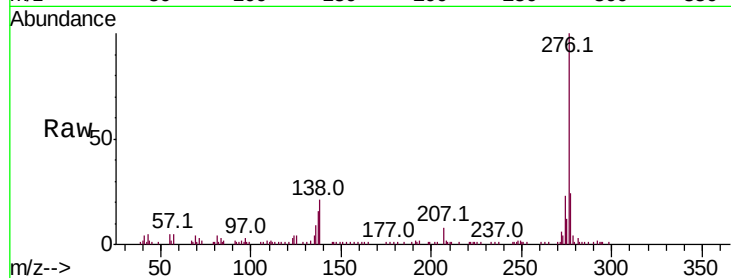




#91
 Benzo(a,h,i)perylene
 Concen: 8.330 ng
 RT: 17.86 min Scan# 2639
 Delta R.T. -0.04 min
 Lab File: BF108370.D
 Acq: 22 Aug 2018 6:42

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.8	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

