

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF032319\
 Data File : BF113257.D
 Acq On : 23 Mar 2019 13:36
 Operator : JU/SJ
 Sample : K2050-01DL 25X
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Mar 23 22:56:59 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 13 03:42:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.71	152	176125	20.00	ng	-0.02
21) Naphthalene-d8	7.99	136	743274	20.00	ng	-0.02
39) Acenaphthene-d10	9.75	164	386499	20.00	ng	-0.02
64) Phenanthrene-d10	11.23	188	785934	20.00	ng	-0.02
76) Chrysene-d12	13.86	240	515431	20.00	ng	-0.01
87) Perylene-d12	15.27	264	421754	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.32	112	58350	5.15	ng	-0.02
7) Phenol-d6	6.36	99	88550	6.23	ng	-0.02
23) Nitrobenzene-d5	7.27	82	49596	3.99	ng	-0.03
42) 2,4,6-Tribromophenol	10.53	330	30338	7.39	ng	-0.02
45) 2-Fluorobiphenyl	9.07	172	119370	2.67	ng	-0.02
79) Terphenyl-d14	12.80	244	134464	5.06	ng	-0.02

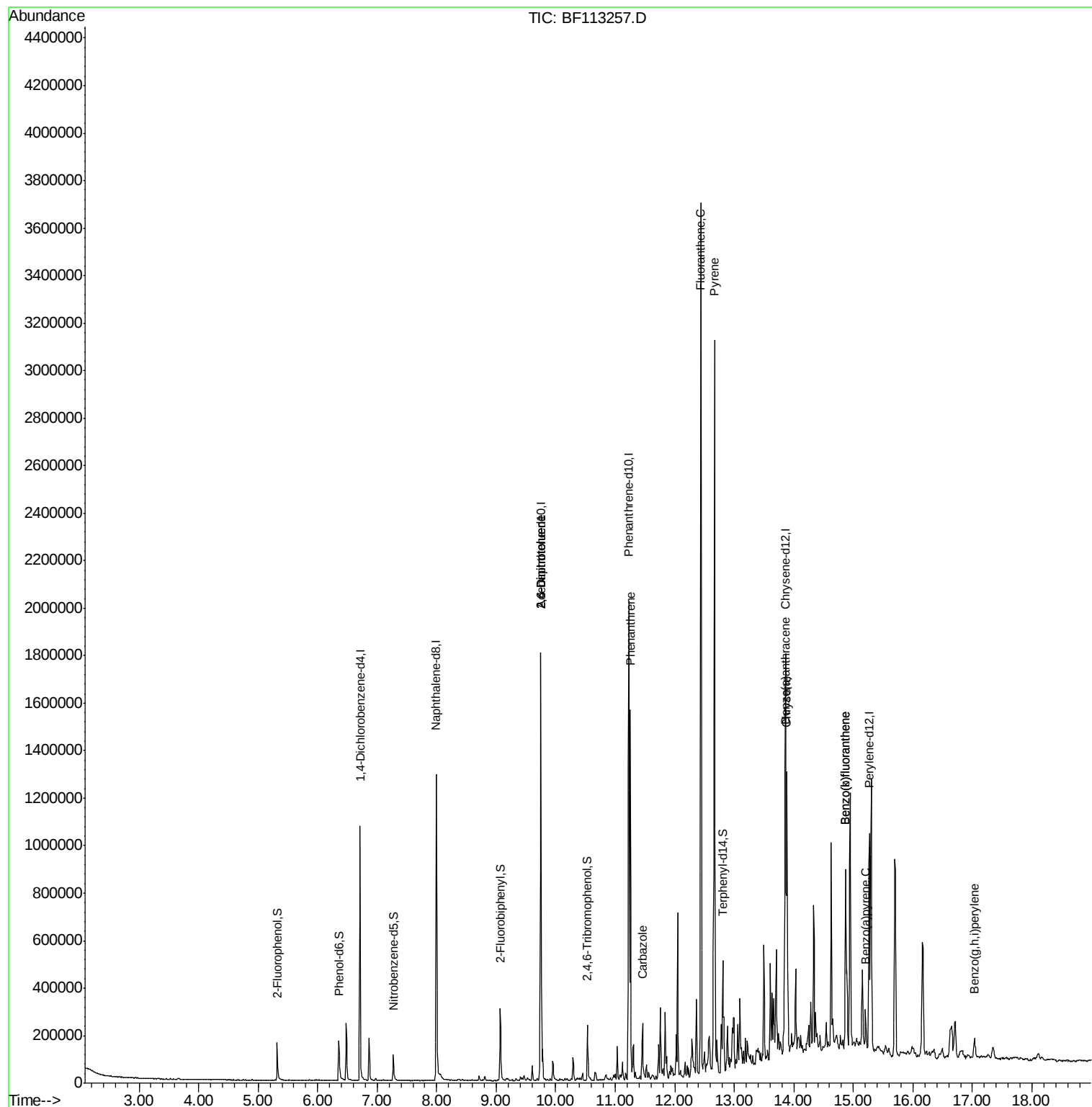
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
51) 2,6-Dinitrotoluene	9.75	165	49702	8.375	ng	# 18
57) 2,4-Dinitrotoluene	9.75	165	49703	6.738	ng	# 17
71) Phenanthrene	11.25	178	560467	14.333	ng	99
73) Carbazole	11.46	167	94975	2.379	ng	96
75) Fluoranthene	12.44	202	1727836	41.242	ng	98
78) Pyrene	12.67	202	1363817	31.387	ng	100
81) Benzo(a)anthracene	13.85	228	175702	4.918	ng	96
83) Chrysene	13.89	228	561464	16.046	ng	97
88) Benzo(b)fluoranthene	14.87	252	490874	17.994	ng	98
89) Benzo(k)fluoranthene	14.87	252	490874	19.865	ng	98
90) Benzo(a)pyrene	15.21	252	82238	3.408	ng	97
92) Benzo(a,h,i)perylene	17.03	276	70842	3.426	ng	98

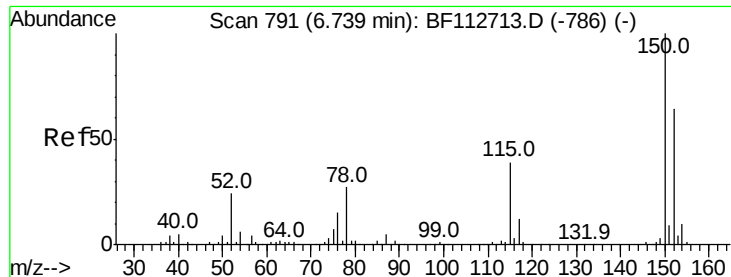
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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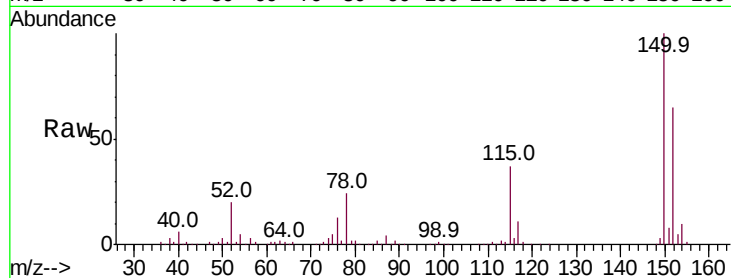


#1

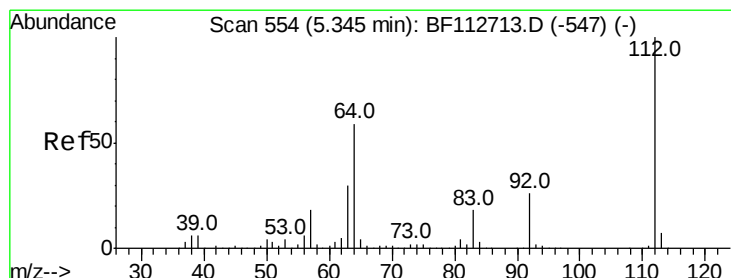
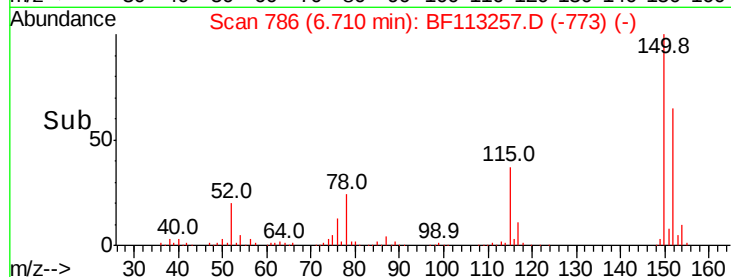
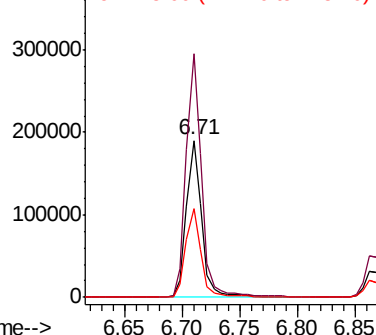
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.71 min Scan# 786
Delta R.T. -0.02 min
Lab File: BF113257.D
Acq: 23 Mar 2019 13:36

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 176125
Ion Ratio Lower Upper
152 100
150 154.9 124.2 186.2
115 56.7 48.2 72.4



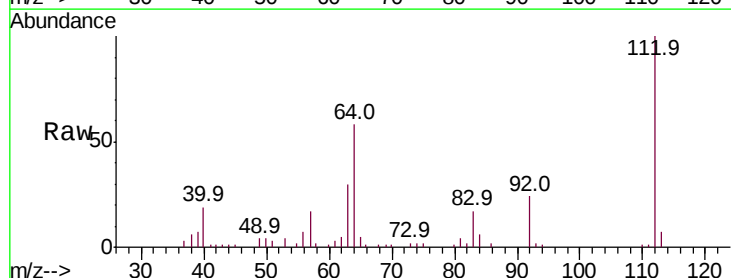
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



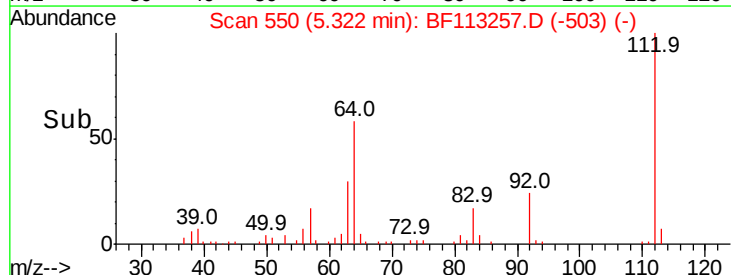
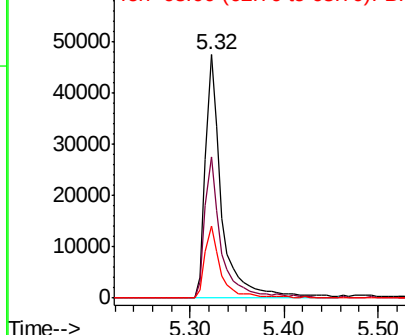
#5

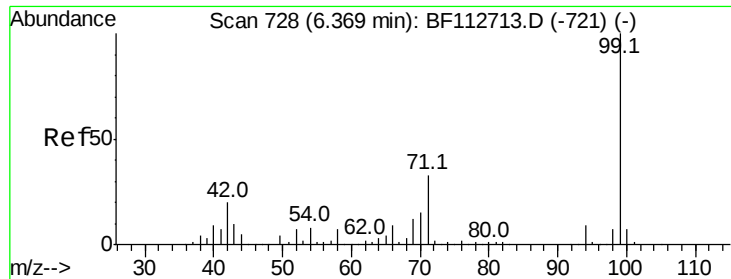
2-Fluorophenol
Concen: 5.153 ng
RT: 5.32 min Scan# 550
Delta R.T. -0.02 min
Lab File: BF113257.D
Acq: 23 Mar 2019 13:36

Tgt Ion:112 Resp: 58350
Ion Ratio Lower Upper
112 100
64 57.8 47.6 71.4
63 29.6 24.4 36.6



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: 6.226 ng

RT: 6.36 min Scan# 726

Delta R.T. -0.02 min

Lab File: BF113257.D

Acq: 23 Mar 2019 13:36

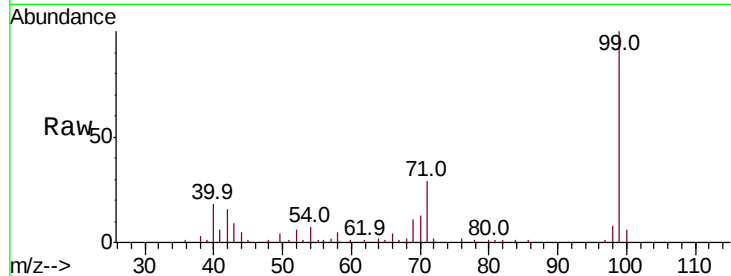
Instrument :

BNA_F

ClientSampleId :

Tot Ion: 99 Resp: 88550

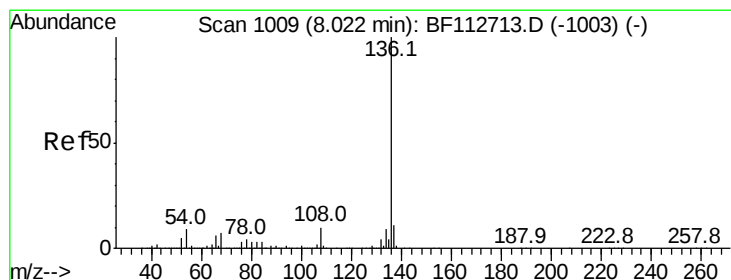
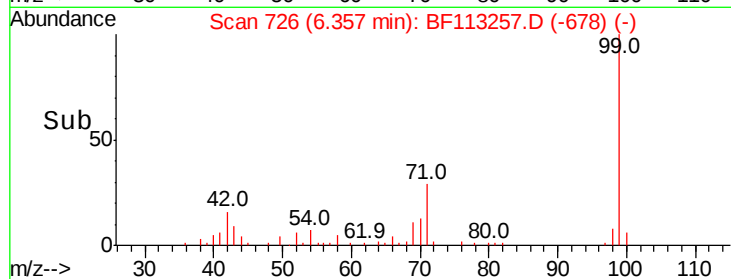
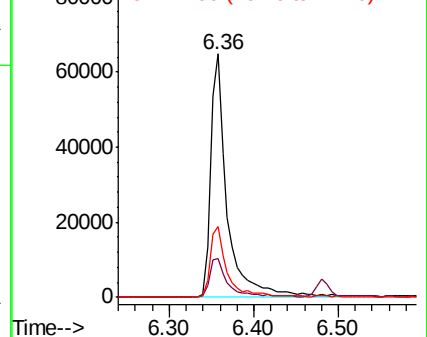
Ion	Ratio	Lower	Upper
99	100		
42	16.1	16.3	24.5#
71	29.0	26.2	39.4



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: 7.99 min Scan# 1004

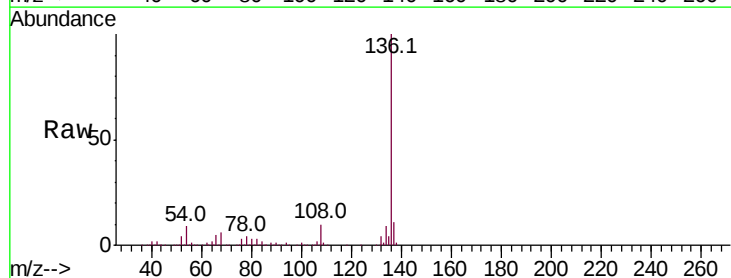
Delta R.T. -0.02 min

Lab File: BF113257.D

Acq: 23 Mar 2019 13:36

Tgt Ion: 136 Resp: 743274

Ion	Ratio	Lower	Upper
136	100		
137	11.3	8.9	13.3
54	8.6	7.3	10.9
68	6.4	5.4	8.2

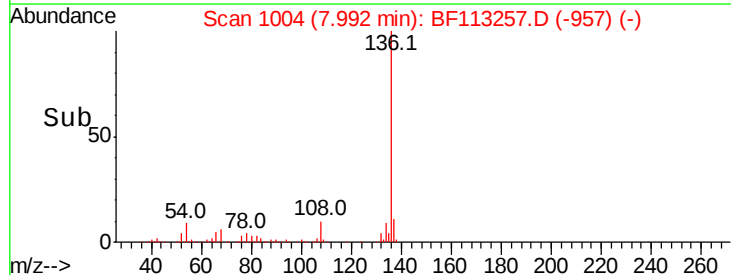
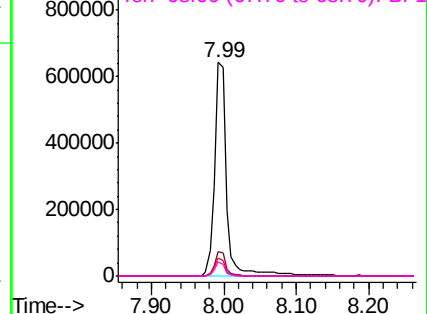


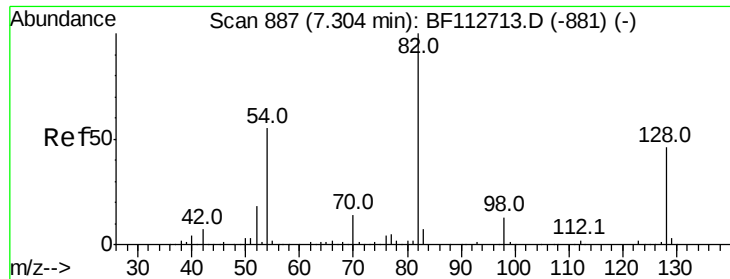
Abundance Ion 136.00 (135.70 to 136.70): E

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

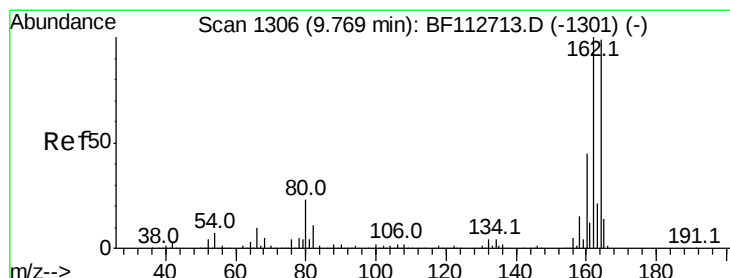
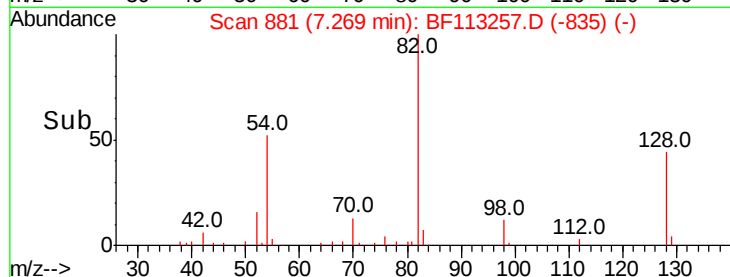
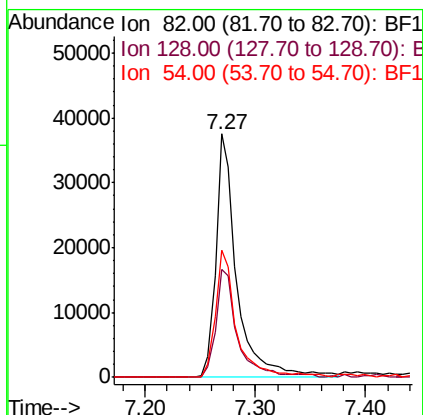
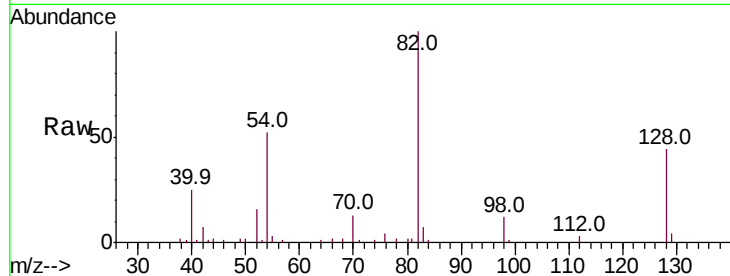




#23
 Nitrobenzene-d5
 Concen: 3.993 ng
 RT: 7.27 min Scan# 881
 Delta R.T. -0.03 min
 Lab File: BF113257.D
 Acq: 23 Mar 2019 13:36

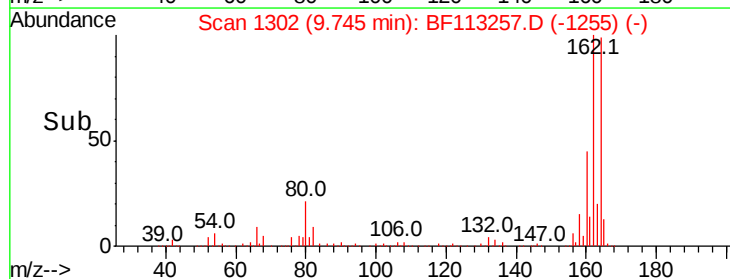
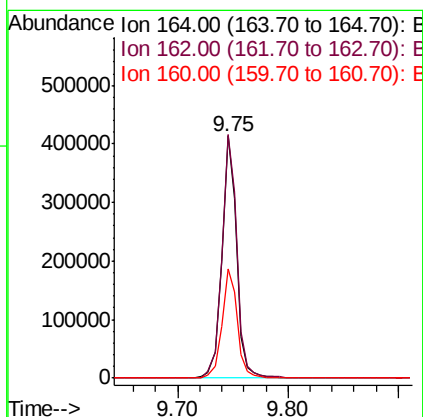
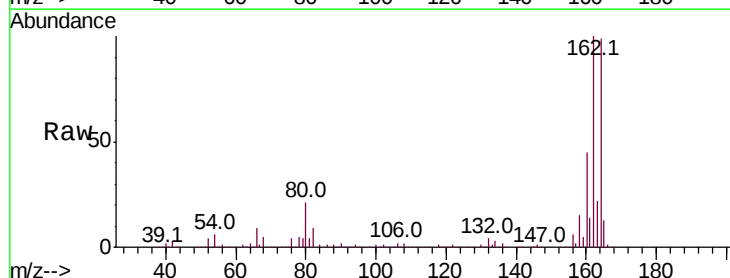
Instrument :
 BNA_F
 ClientSampled :

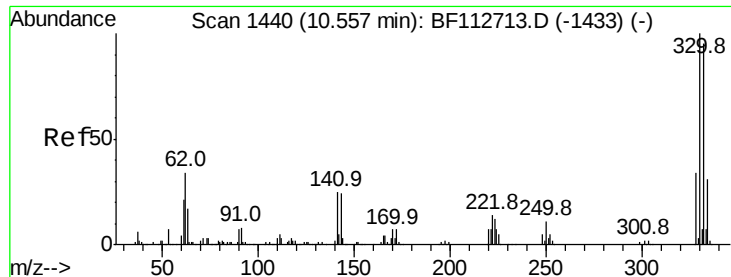
Tot Ion	82	Resp	49596
Ion Ratio	Lower	Upper	
82	100		
128	44.2	36.3	54.5
54	52.2	43.7	65.5



#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.75 min Scan# 1302
 Delta R.T. -0.02 min
 Lab File: BF113257.D
 Acq: 23 Mar 2019 13:36

Tgt Ion	164	Resp	386499
Ion Ratio	Lower	Upper	
164	100		
162	100.6	80.6	120.8
160	45.1	36.0	54.0

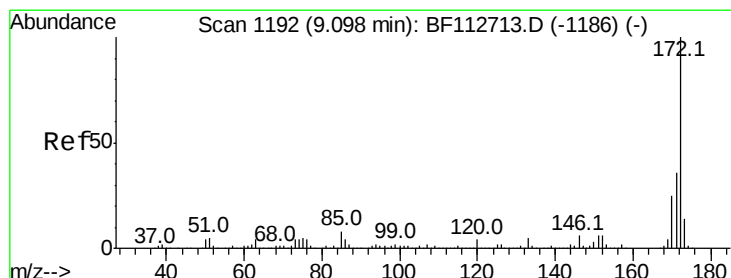
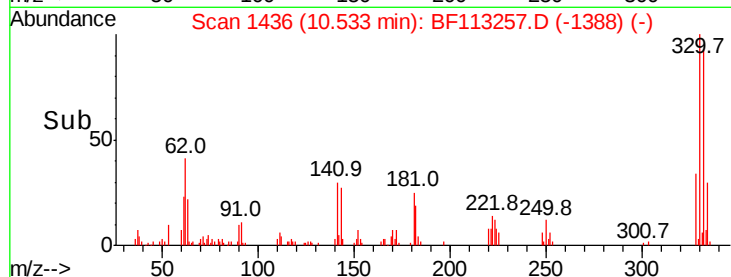
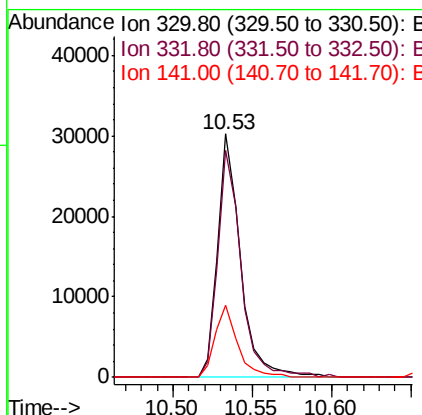
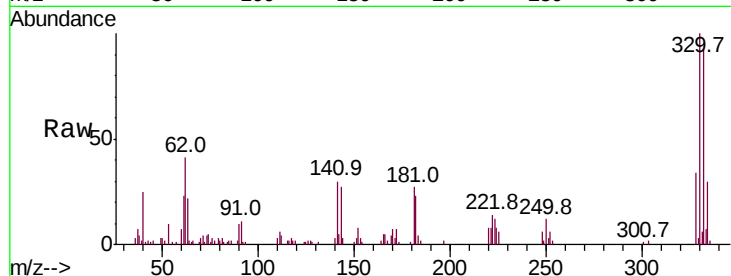




#42
 2,4,6-Tribromophenol
 Concen: 7.394 ng
 RT: 10.53 min Scan# 1436
 Delta R.T. -0.02 min
 Lab File: BF113257.D
 Acq: 23 Mar 2019 13:36

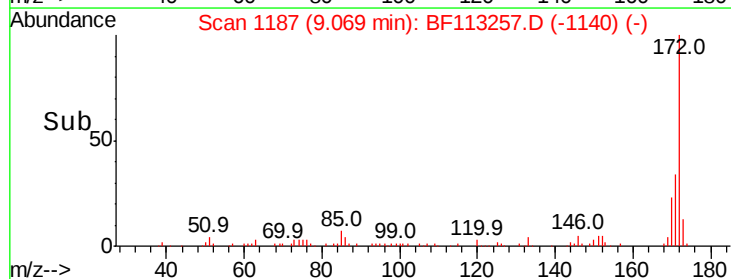
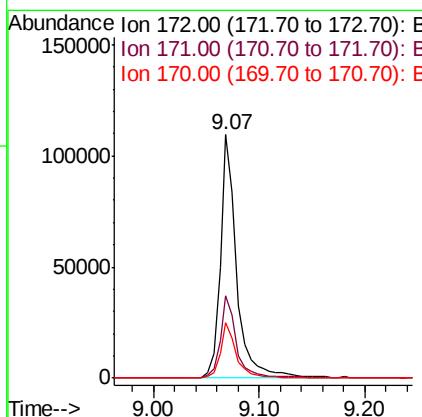
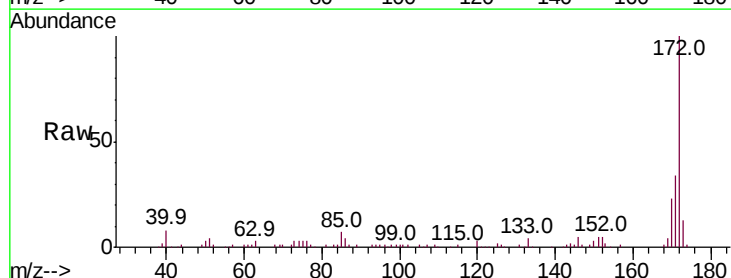
Instrument :
 BNA_F
 ClientSampleId :

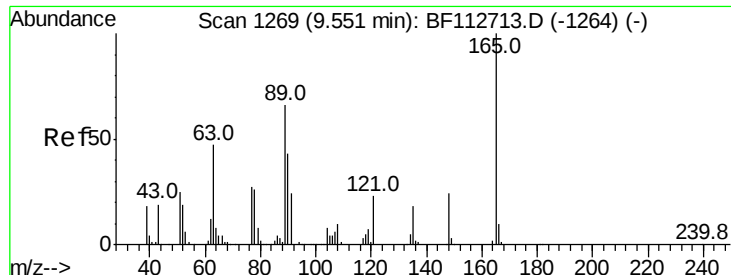
Tot Ion	Ratio	Lower	Upper
330	100		
332	95.0	76.2	114.4
141	29.2	27.0	40.6



#45
 2-Fluorobiphenyl
 Concen: 2.675 ng
 RT: 9.07 min Scan# 1187
 Delta R.T. -0.02 min
 Lab File: BF113257.D
 Acq: 23 Mar 2019 13:36

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.1	29.0	43.4
170	22.6	20.0	30.0

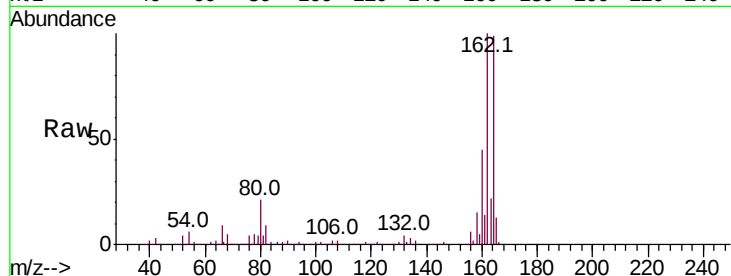




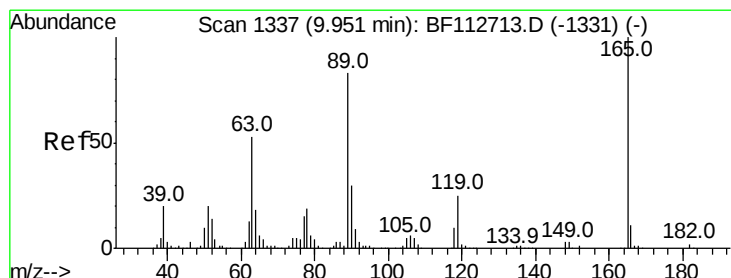
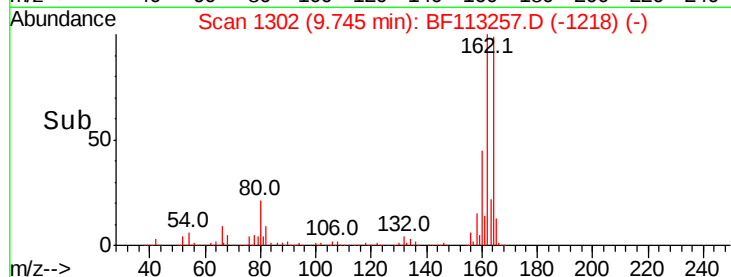
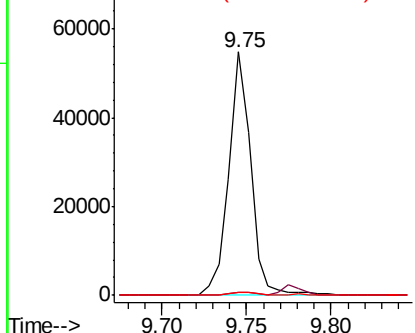
#51
2,6-Dinitrotoluene
Concen: 8.375 ng
RT: 9.75 min Scan# 1302
Delta R.T. 0.19 min
Lab File: BF113257.D
Acq: 23 Mar 2019 13:36

Instrument :
BNA_F
ClientSampleId :

Tot Ion:165 Resp: 49702
Ion Ratio Lower Upper
165 100
63 1.0 54.1 81.1#
89 1.1 52.8 79.2#

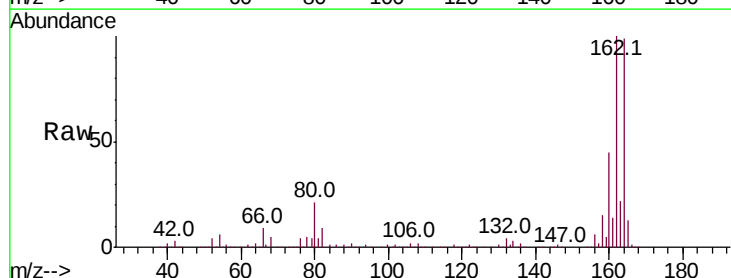


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 89.00 (88.70 to 89.70): BF1

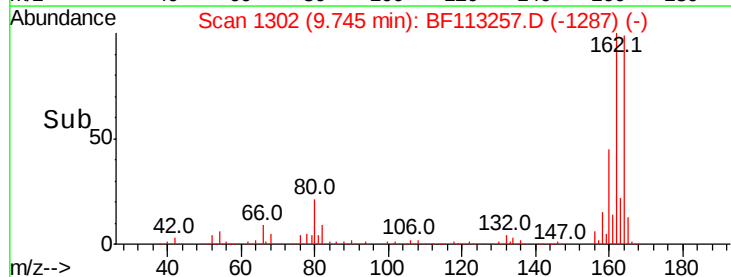
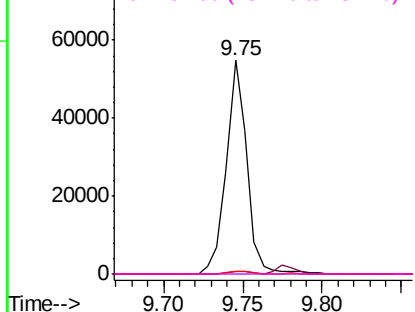


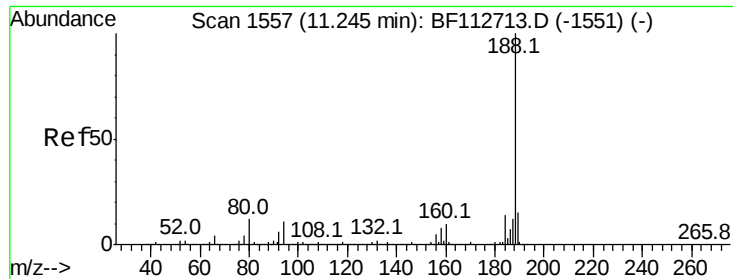
#57
2,4-Dinitrotoluene
Concen: 6.738 ng
RT: 9.75 min Scan# 1302
Delta R.T. -0.21 min
Lab File: BF113257.D
Acq: 23 Mar 2019 13:36

Tgt Ion:165 Resp: 49703
Ion Ratio Lower Upper
165 100
63 1.0 42.2 63.2#
89 1.1 66.2 99.4#
182 0.0 1.8 2.6#



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





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.23 min Scan# 1554

Delta R.T. -0.02 min

Lab File: BF113257.D

Acq: 23 Mar 2019 13:36

Instrument :

BNA_F

ClientSampleId :

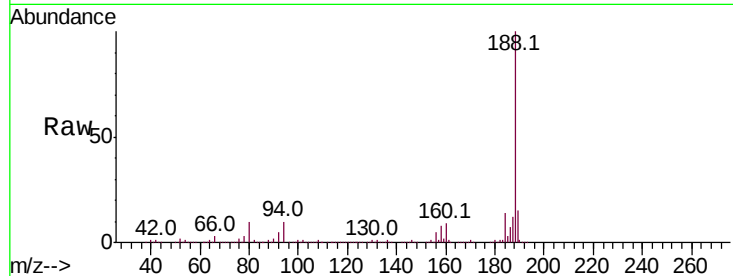
Tot Ion:188 Resp: 785934

Ion Ratio Lower Upper

188 100

94 9.5 9.0 13.4

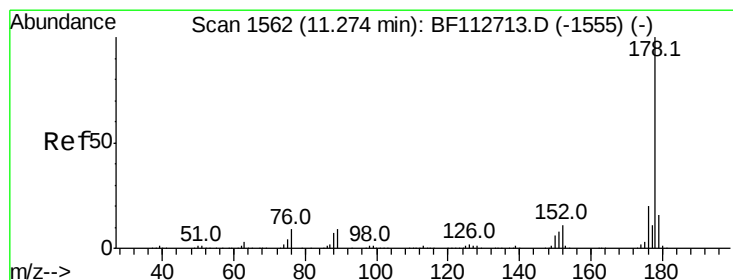
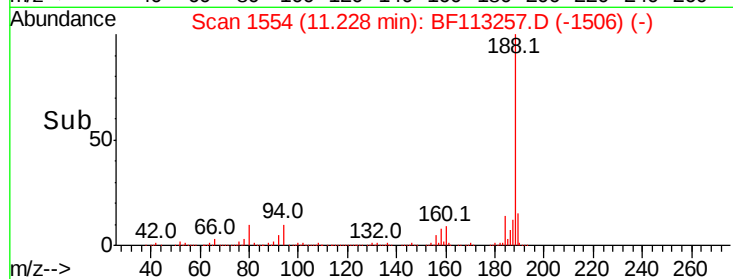
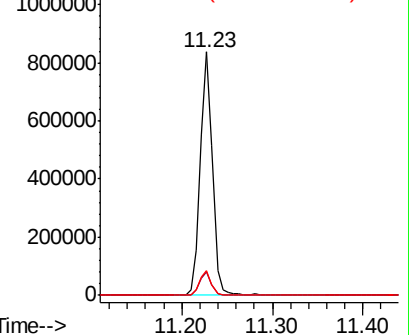
80 10.1 9.2 13.8



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



#71

Phenanthrene

Concen: 14.333 ng

RT: 11.25 min Scan# 1558

Delta R.T. -0.02 min

Lab File: BF113257.D

Acq: 23 Mar 2019 13:36

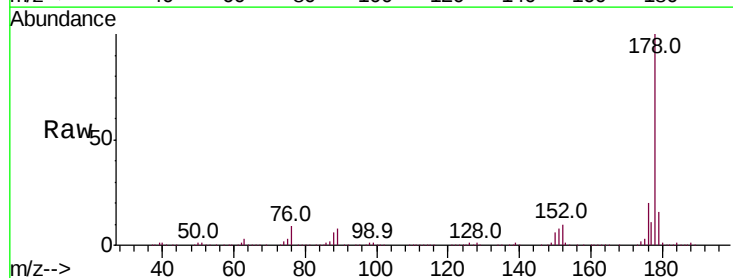
Tgt Ion:178 Resp: 560467

Ion Ratio Lower Upper

178 100

176 19.6 16.3 24.5

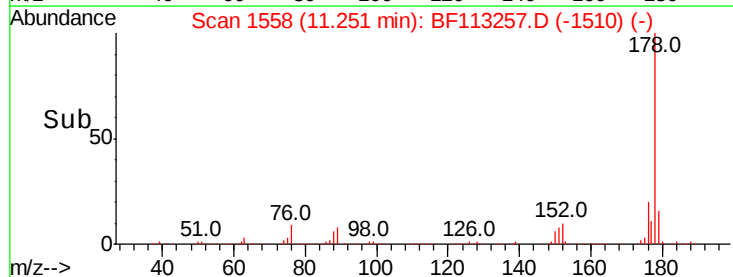
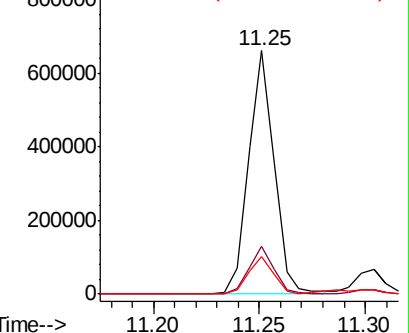
179 15.5 12.7 19.1

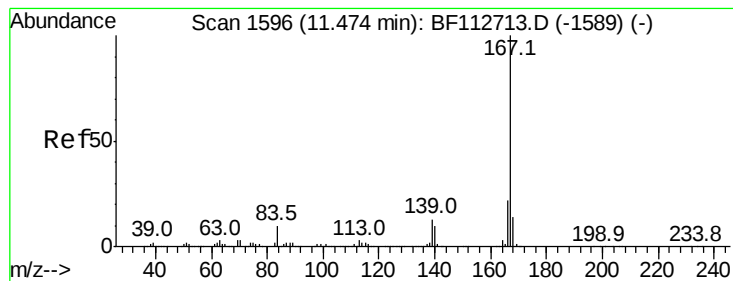


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#73

Carbazole

Concen: 2.379 ng

RT: 11.46 min Scan# 1593

Delta R.T. -0.02 min

Lab File: BF113257.D

Acq: 23 Mar 2019 13:36

Instrument :

BNA_F

ClientSampled :

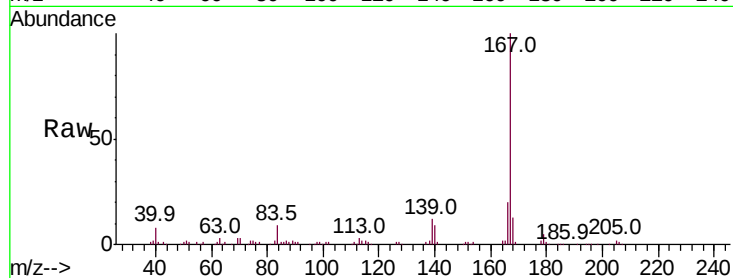
Tot Ion:167 Resp: 94975

Ion Ratio Lower Upper

167 100

166 20.0 17.5 26.3

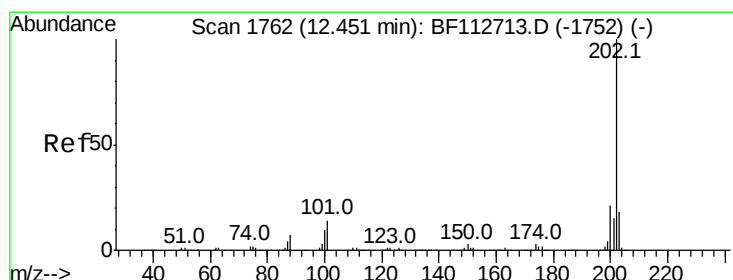
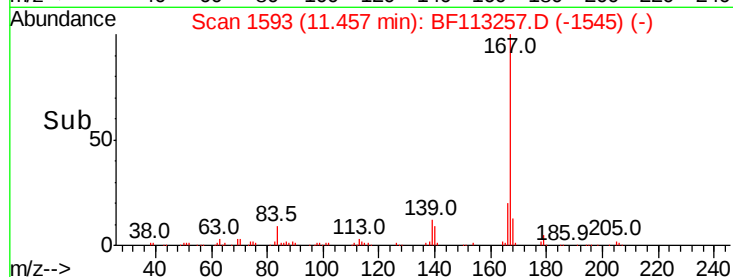
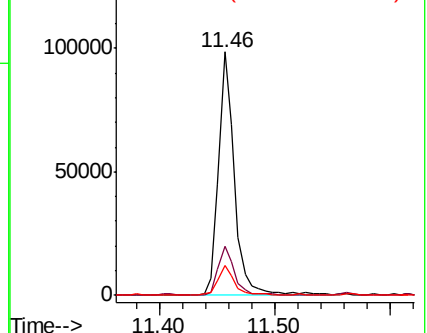
139 12.2 10.8 16.2



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#75

Fluoranthene

Concen: 41.242 ng

RT: 12.44 min Scan# 1760

Delta R.T. -0.01 min

Lab File: BF113257.D

Acq: 23 Mar 2019 13:36

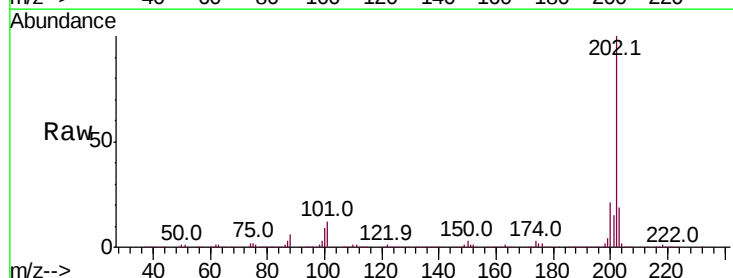
Tgt Ion:202 Resp: 1727836

Ion Ratio Lower Upper

202 100

101 12.5 0.0 33.8

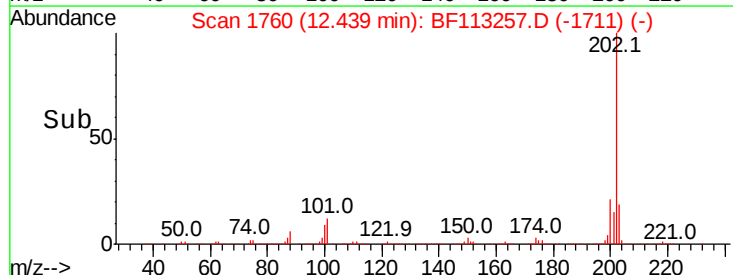
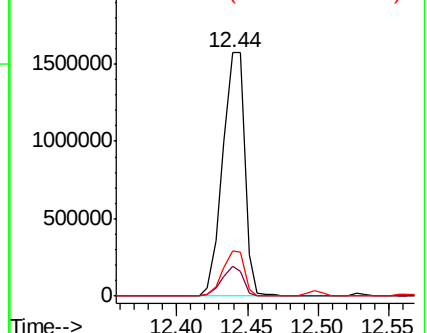
203 18.6 0.0 38.4

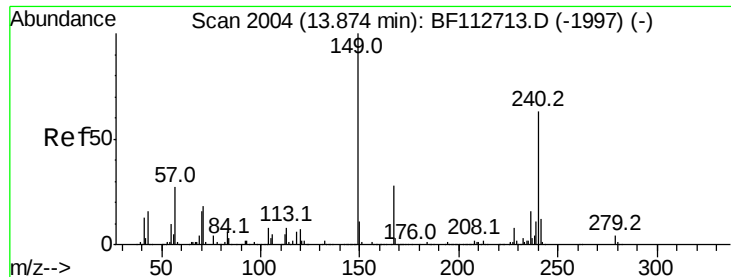


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

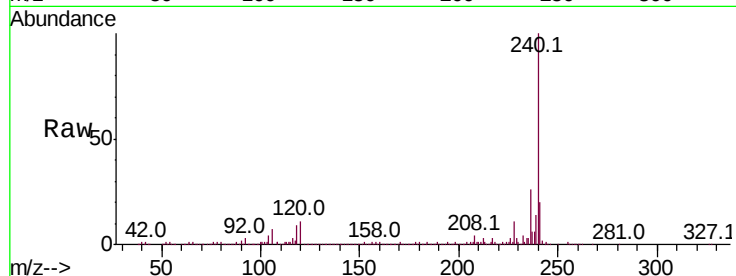




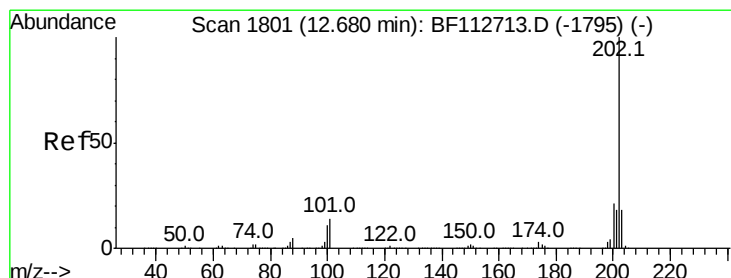
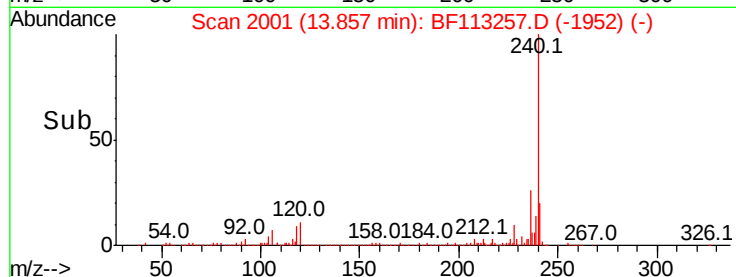
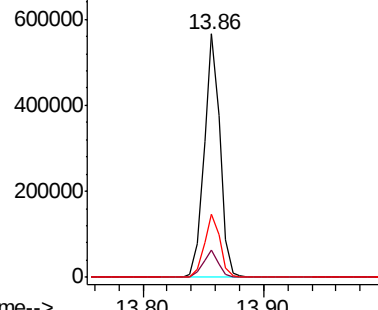
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.86 min Scan# 2001
Delta R.T. -0.01 min
Lab File: BF113257.D
Acq: 23 Mar 2019 13:36

Instrument :
BNA_F
ClientSampleId :

Tot Ion:240 Resp: 515431
Ion Ratio Lower Upper
240 100
120 11.1 8.9 13.3
236 25.8 20.7 31.1

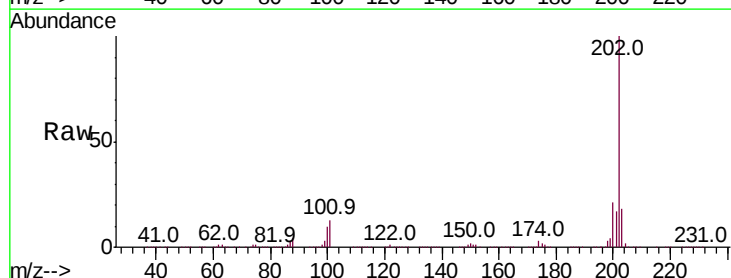


Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E

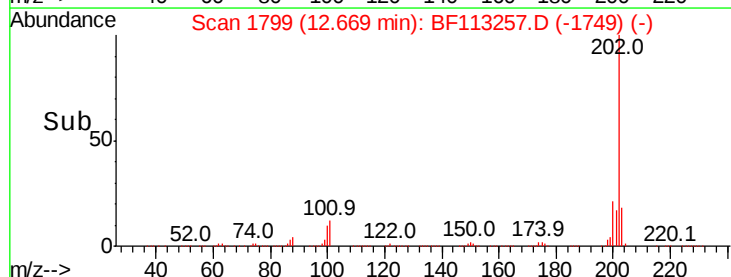
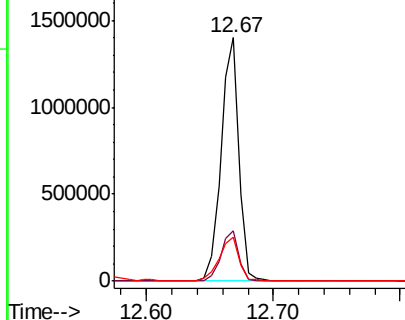


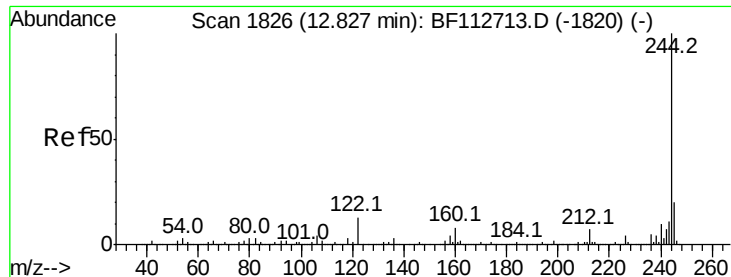
#78
Pyrene
Concen: 31.387 ng
RT: 12.67 min Scan# 1799
Delta R.T. -0.01 min
Lab File: BF113257.D
Acq: 23 Mar 2019 13:36

Tgt Ion:202 Resp: 1363817
Ion Ratio Lower Upper
202 100
200 20.9 17.0 25.4
203 18.1 14.4 21.6



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

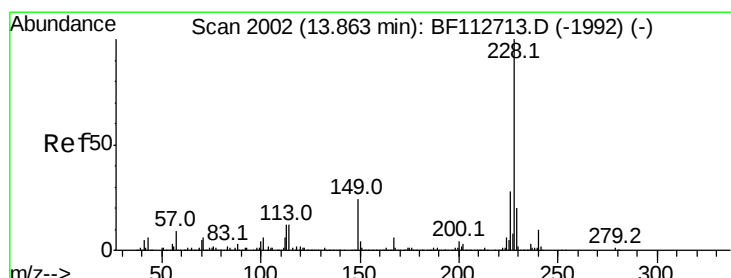
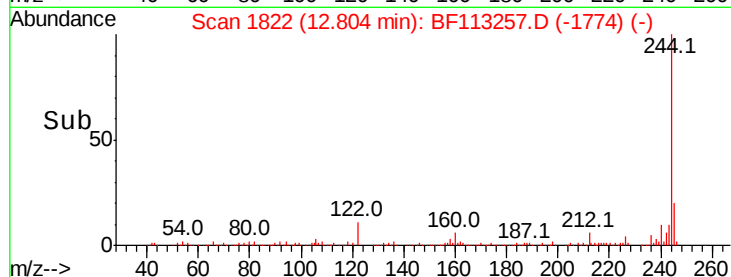
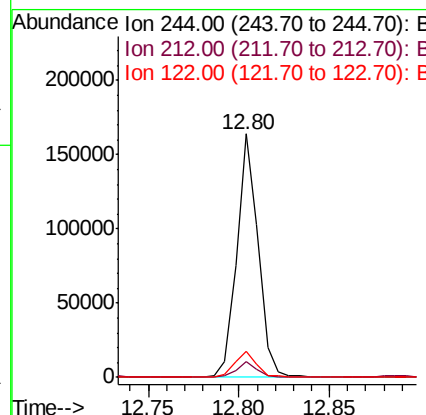
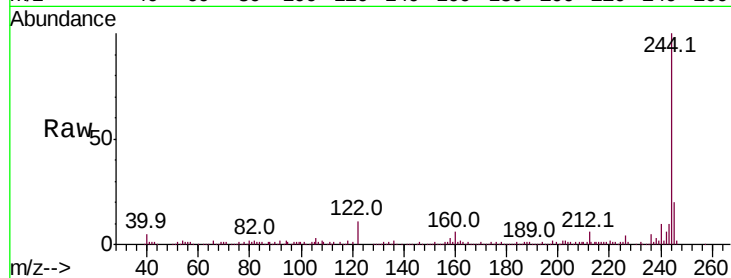




#79
 Terphenyl-d14
 Concen: 5.057 ng
 RT: 12.80 min Scan# 1822
 Delta R.T. -0.02 min
 Lab File: BF113257.D
 Acq: 23 Mar 2019 13:36

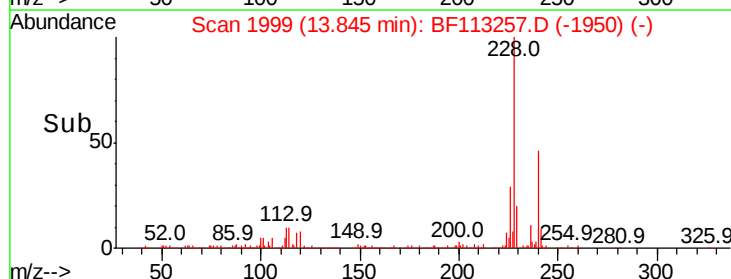
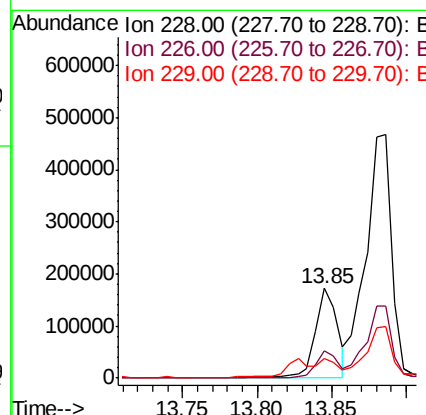
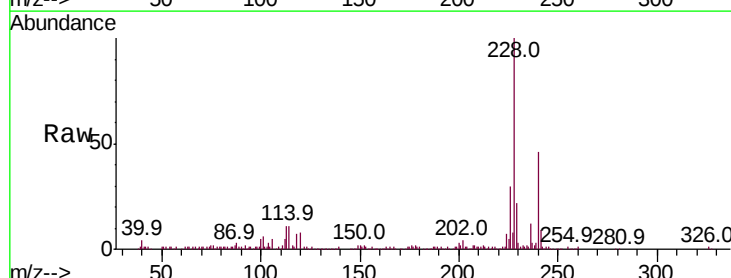
Instrument :
 BNA_F
 ClientSampled :

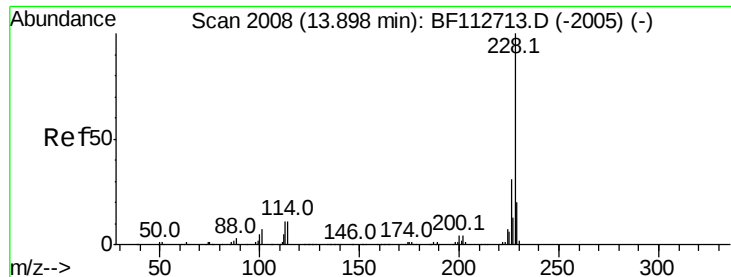
Tot Ion:244 Resp: 134464
 Ion Ratio Lower Upper
 244 100
 212 6.2 5.6 8.4
 122 10.6 10.5 15.7



#81
 Benzo(a)anthracene
 Concen: 4.918 ng
 RT: 13.85 min Scan# 1999
 Delta R.T. -0.01 min
 Lab File: BF113257.D
 Acq: 23 Mar 2019 13:36

Tgt Ion:228 Resp: 175702
 Ion Ratio Lower Upper
 228 100
 226 29.9 22.2 33.4
 229 21.7 16.0 24.0

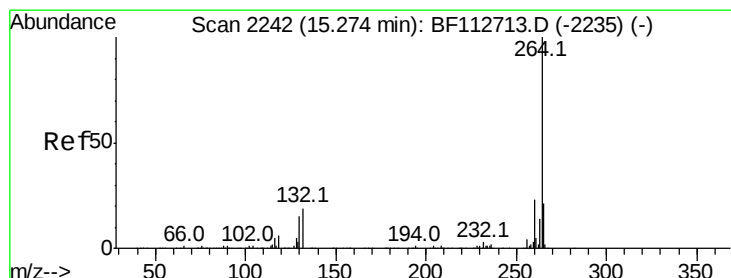
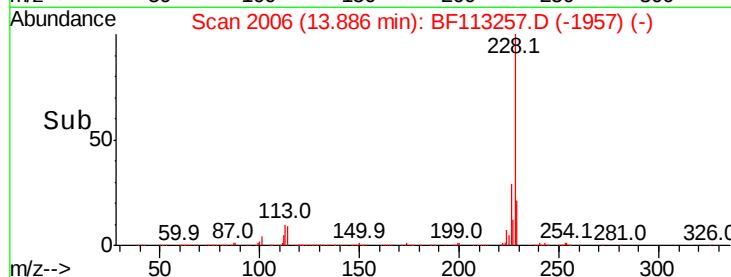
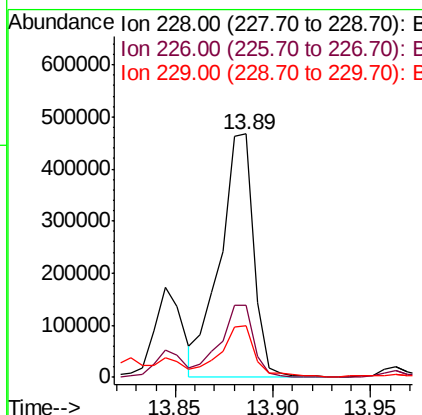
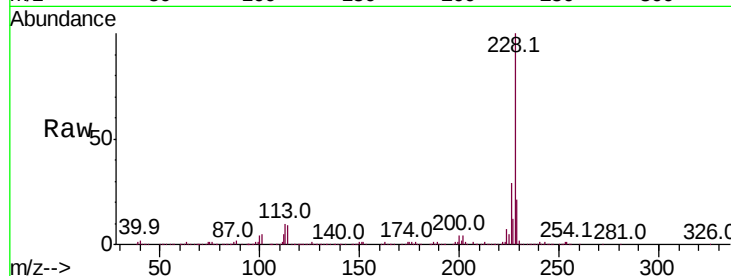




#83
Chrysene
Concen: 16.046 ng
RT: 13.89 min Scan# 2006
Delta R.T. -0.01 min
Lab File: BF113257.D
Acq: 23 Mar 2019 13:36

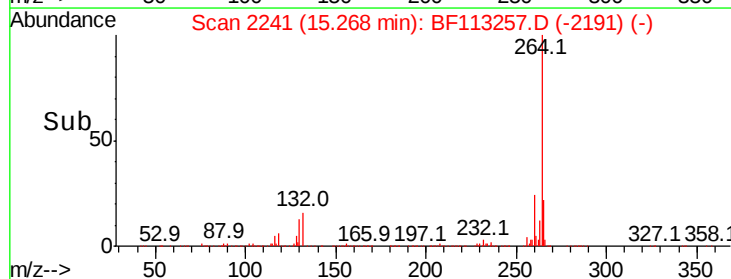
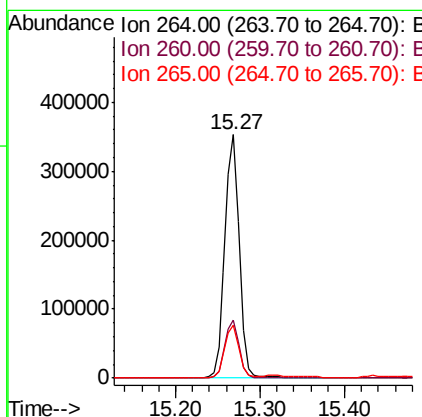
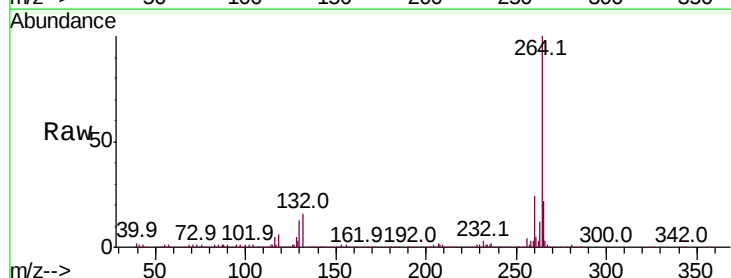
Instrument :
BNA_F
ClientSampleId :

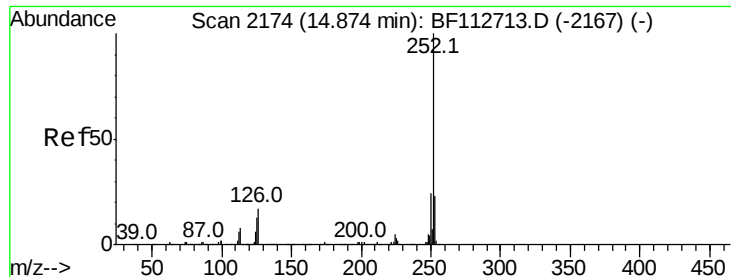
Tot Ion:228 Resp: 561464
Ion Ratio Lower Upper
228 100
226 29.4 24.9 37.3
229 21.3 16.3 24.5



#87
Perylene-d12
Concen: 20.000 ng
RT: 15.27 min Scan# 2241
Delta R.T. -0.01 min
Lab File: BF113257.D
Acq: 23 Mar 2019 13:36

Tgt Ion:264 Resp: 421754
Ion Ratio Lower Upper
264 100
260 23.8 18.7 28.1
265 21.7 17.2 25.8





#88

Benzo(b)fluoranthene

Concen: 17.994 ng

RT: 14.87 min Scan# 2173

Delta R.T. -0.01 min

Lab File: BF113257.D

Acq: 23 Mar 2019 13:36

Instrument :

BNA_F

ClientSampleId :

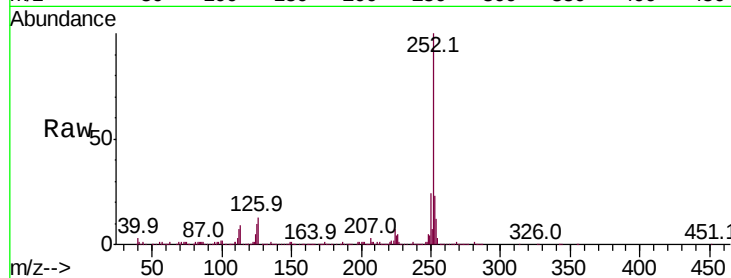
Tot Ion:252 Resp: 490874

Ion Ratio Lower Upper

252 100

253 22.5 18.0 27.0

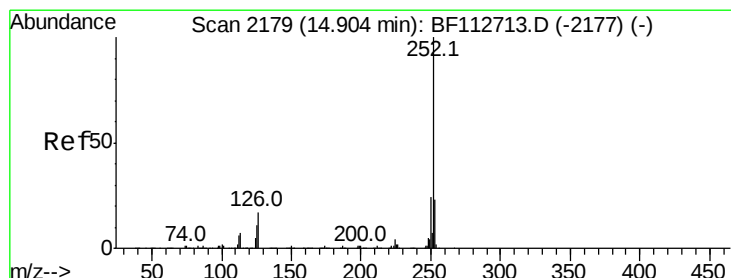
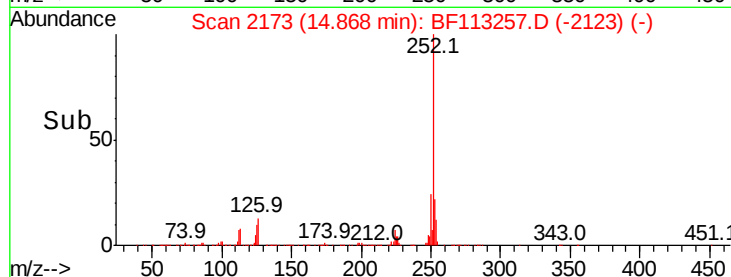
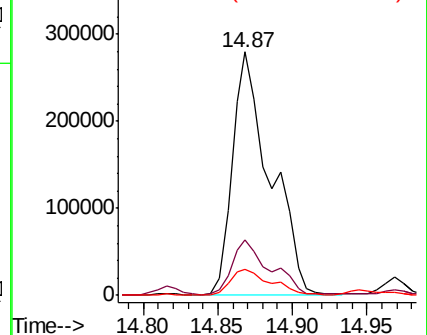
125 10.4 10.2 15.2



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89

Benzo(k)fluoranthene

Concen: 19.865 ng

RT: 14.87 min Scan# 2173

Delta R.T. -0.04 min

Lab File: BF113257.D

Acq: 23 Mar 2019 13:36

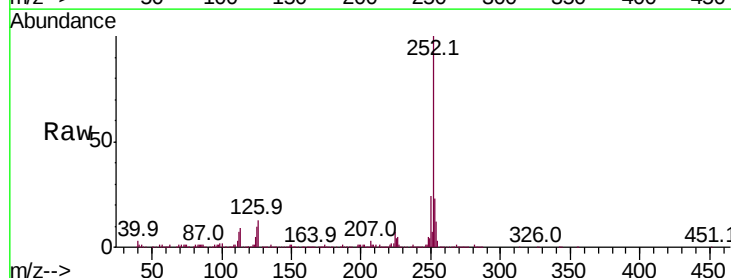
Tgt Ion:252 Resp: 490874

Ion Ratio Lower Upper

252 100

253 22.5 18.2 27.2

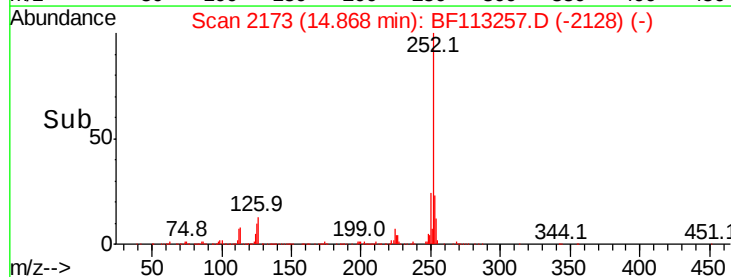
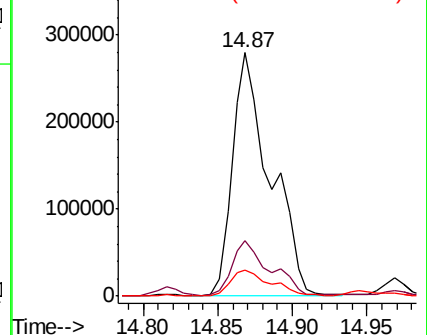
125 10.4 9.8 14.6

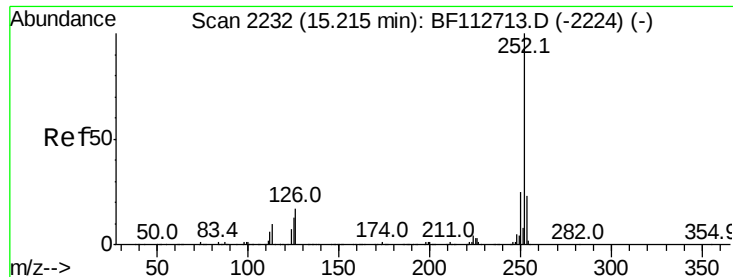


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

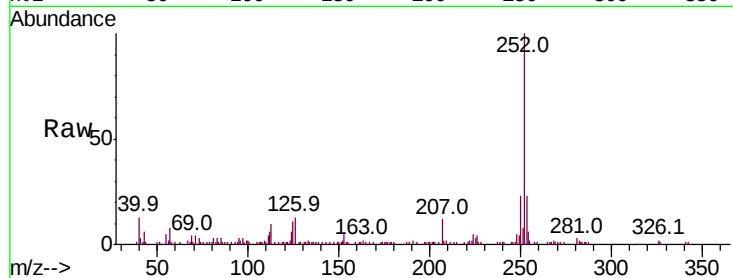




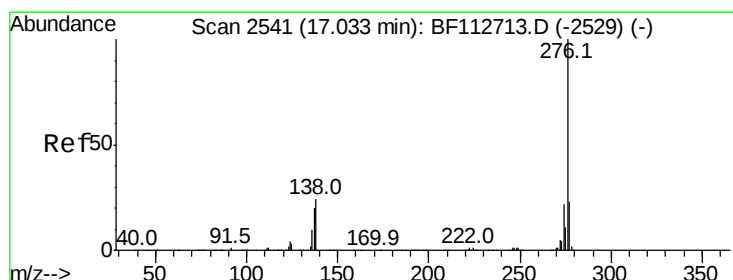
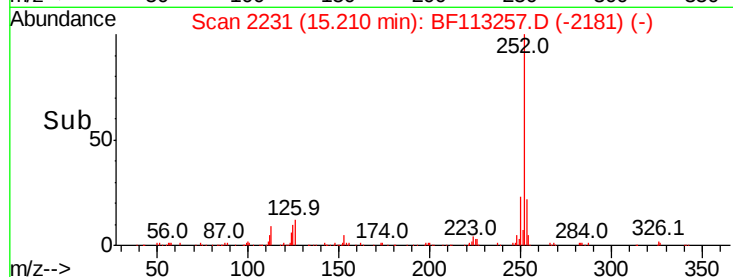
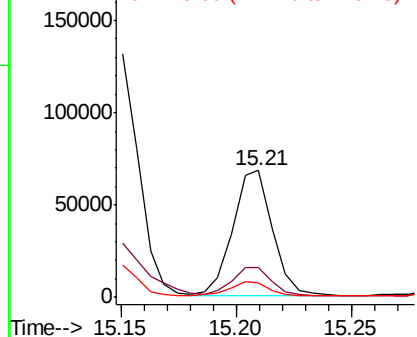
#90
Benzo(a)pyrene
Concen: 3.408 ng
RT: 15.21 min Scan# 2231
Delta R.T. -0.01 min
Lab File: BF113257.D
Acq: 23 Mar 2019 13:36

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.2	18.0	27.0
125	11.2	10.7	16.1

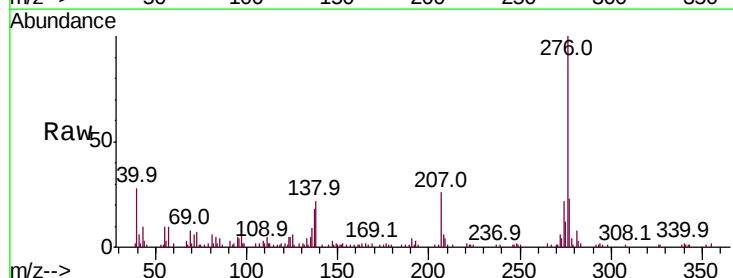


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#92
Benzo(g,h,i)perylene
Concen: 3.426 ng
RT: 17.03 min Scan# 2541
Delta R.T. -0.01 min
Lab File: BF113257.D
Acq: 23 Mar 2019 13:36

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.4	18.6	27.8
138	22.1	19.4	29.0



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

