

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF022219\
 Data File : BF112678.D
 Acq On : 22 Feb 2019 21:33
 Operator : JU/SJ
 Sample : K1572-02 2X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 30019

Quant Time: Feb 22 22:17:18 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jan 28 10:38:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	83984	20.00	ng	-0.03
21) Naphthalene-d8	8.10	136	326403	20.00	ng	-0.03
39) Acenaphthene-d10	9.85	164	142132	20.00	ng	-0.04
64) Phenanthrene-d10	11.34	188	213735	20.00	ng	-0.03
76) Chrysene-d12	13.98	240	162944	20.00	ng	-0.03
87) Perylene-d12	15.45	264	157200	20.00	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.46	112	161326	40.80	ng	-0.02
7) Phenol-d6	6.48	99	212565	38.69	ng	-0.01
23) Nitrobenzene-d5	7.38	82	126229	22.28	ng	-0.03
42) 2,4,6-Tribromophenol	10.65	330	48119	29.09	ng	-0.03
45) 2-Fluorobiphenyl	9.17	172	265524	26.42	ng	-0.04
79) Terphenyl-d14	12.91	244	187847	21.71	ng	-0.04

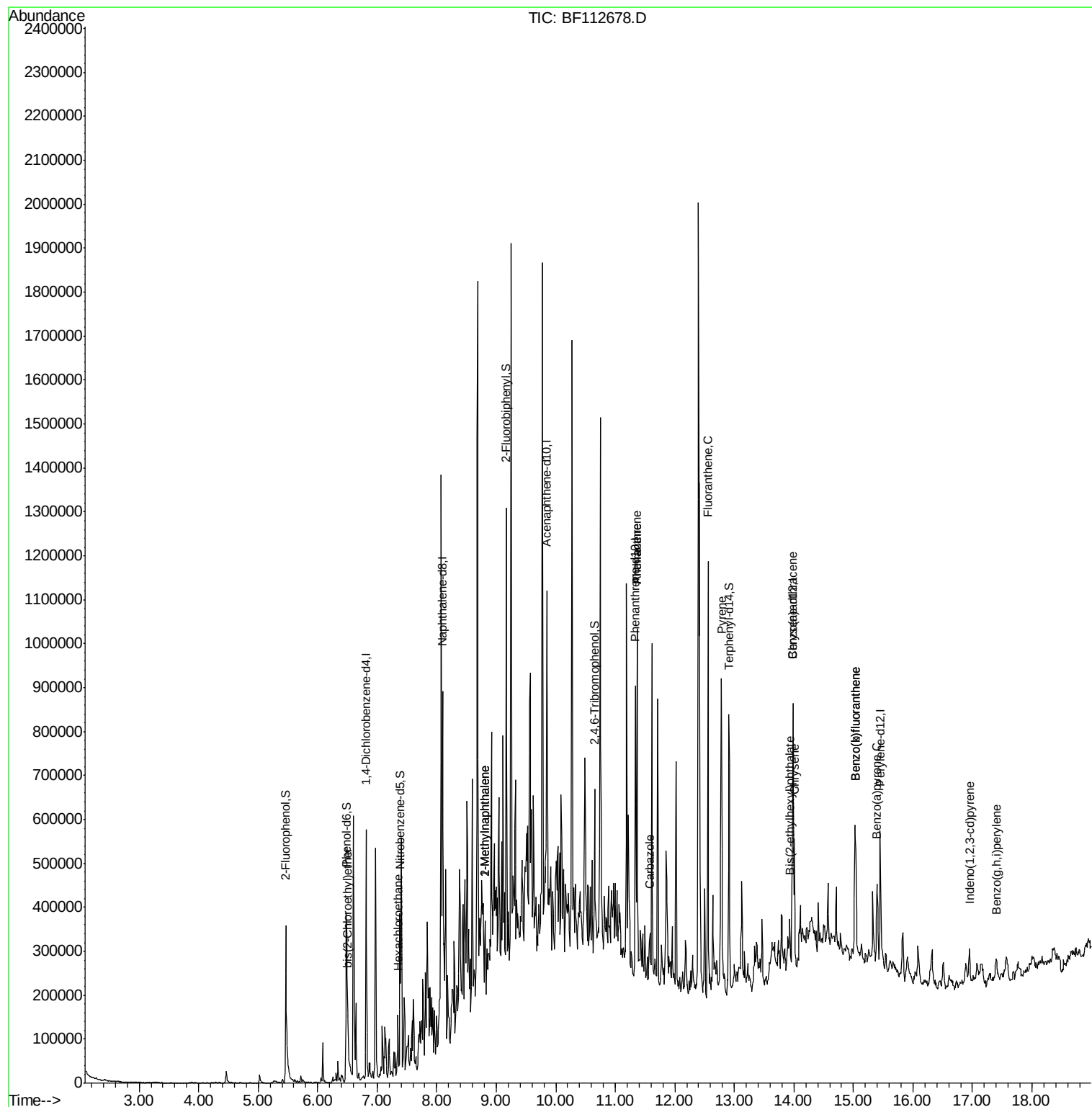
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) bis(2-Chloroethyl)ether	6.51	93	10009	2.109	ng	# 28
18) Hexachloroethane	7.35	117	6803	3.039	ng	# 1
37) 2-Methylnaphthalene	8.82	142	43516	4.164	ng	# 94
38) 1-Methylnaphthalene	8.82	142	43516	4.345	ng	99
71) Phenanthrene	11.36	178	253879	22.848	ng	97
72) Anthracene	11.36	178	253879	22.937	ng	98
73) Carbazole	11.58	167	39466	3.615	ng	# 95
75) Fluoranthene	12.56	202	367022	30.796	ng	97
78) Pyrene	12.79	202	273791	24.269	ng	98
81) Benzo(a)anthracene	13.97	228	96747	10.100	ng	97
83) Chrysene	14.01	228	125677	13.745	ng	99
84) Bis(2-ethylhexyl)phthalate	13.93	149	28841	3.723	ng	98
86) Indeno(1,2,3-cd)pyrene	16.95	276	59506	8.213	ng	# 91
88) Benzo(b)fluoranthene	15.03	252	200604	21.338	ng	98
89) Benzo(k)fluoranthene	15.03	252	200604	22.277	ng	99
90) Benzo(a)pyrene	15.39	252	82692	9.775	ng	# 96
92) Benzo(g,h,i)perylene	17.40	276	53760	8.358	ng	94

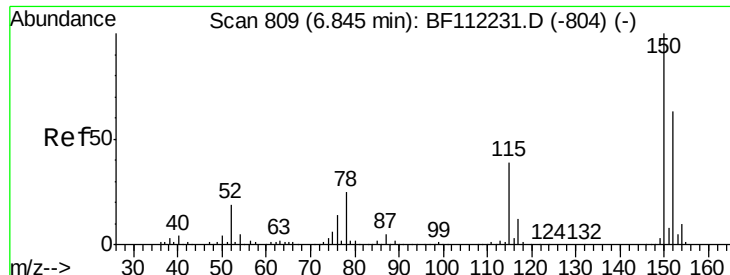
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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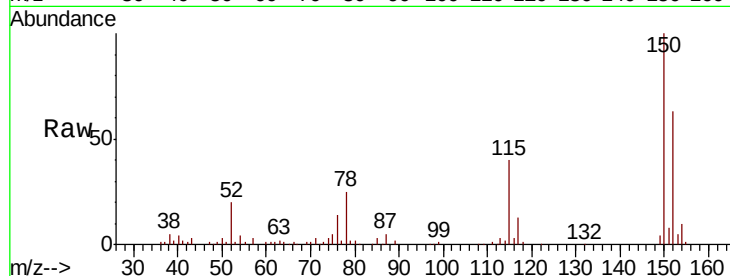


#1

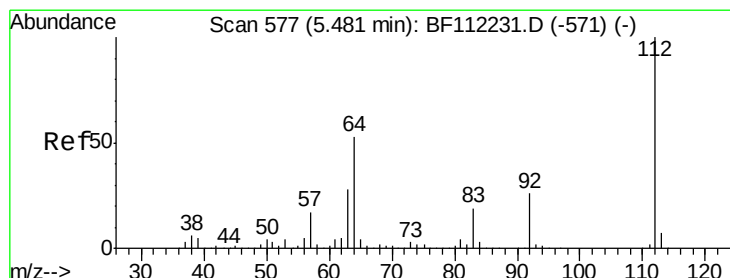
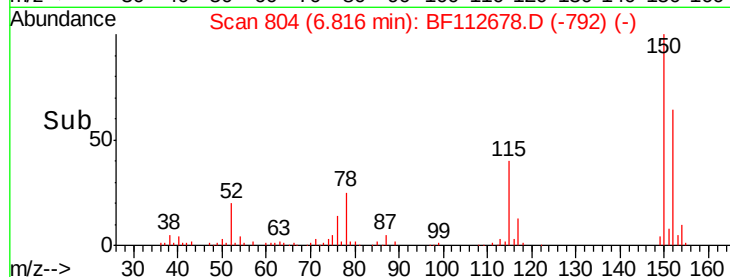
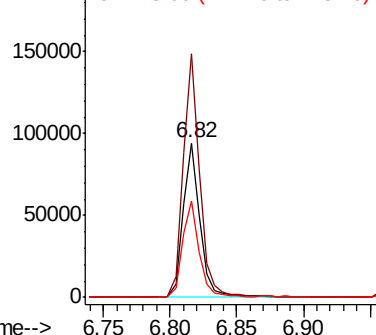
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.82 min Scan# 804
Delta R.T. -0.03 min
Lab File: BF112678.D
Acq: 22 Feb 2019 21:33

Instrument :
BNA_F
ClientSampleId :
30019

Tgt Ion:152 Resp: 83984
Ion Ratio Lower Upper
152 100
150 157.7 127.4 191.0
115 62.6 45.5 68.3



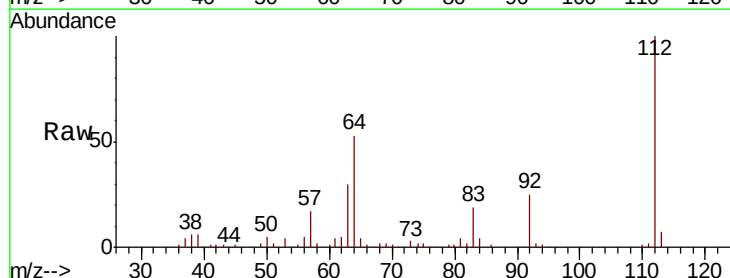
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



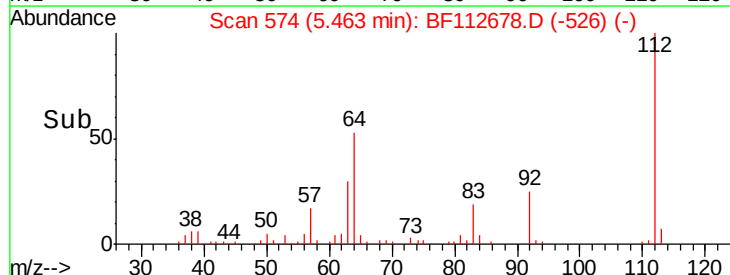
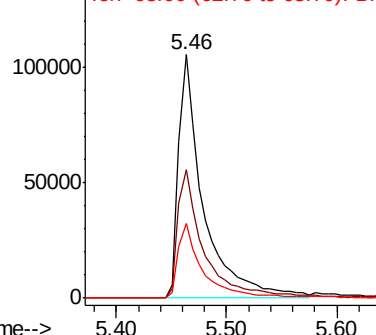
#5

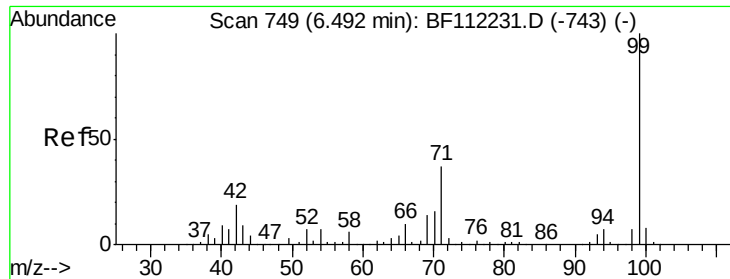
2-Fluorophenol
Concen: 40.801 ng
RT: 5.46 min Scan# 574
Delta R.T. -0.02 min
Lab File: BF112678.D
Acq: 22 Feb 2019 21:33

Tgt Ion:112 Resp: 161326
Ion Ratio Lower Upper
112 100
64 52.9 45.7 68.5
63 30.5 23.6 35.4



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF1
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 38.689 ng

RT: 6.48 min Scan# 747

Delta R.T. -0.01 min

Lab File: BF112678.D

Acq: 22 Feb 2019 21:33

Instrument :

BNA_F

ClientSampleId :

30019

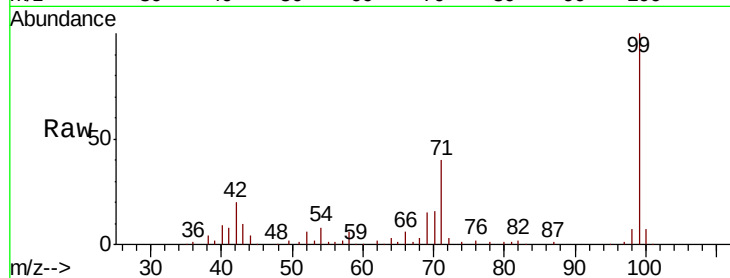
Tgt Ion: 99 Resp: 212565

Ion Ratio Lower Upper

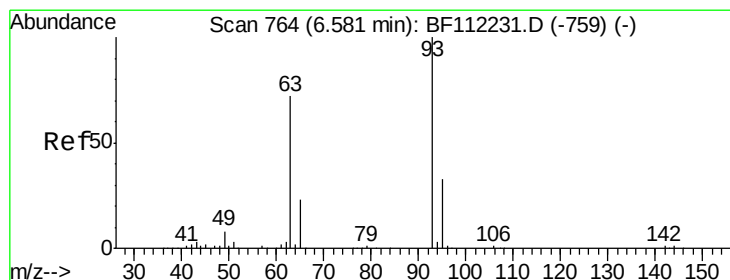
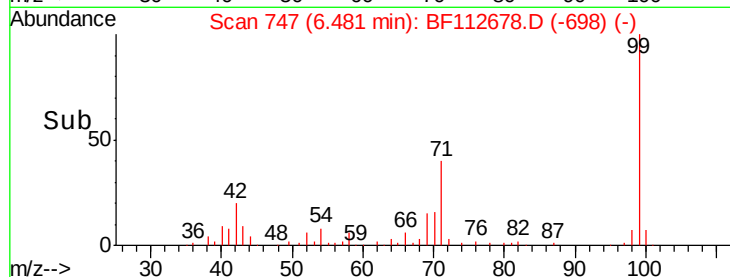
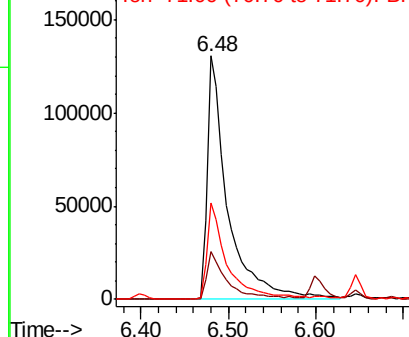
99 100

42 19.8 15.1 22.7

71 39.6 26.9 40.3



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



#11

bis(2-Chloroethyl)ether

Concen: 2.109 ng

RT: 6.51 min Scan# 752

Delta R.T. -0.07 min

Lab File: BF112678.D

Acq: 22 Feb 2019 21:33

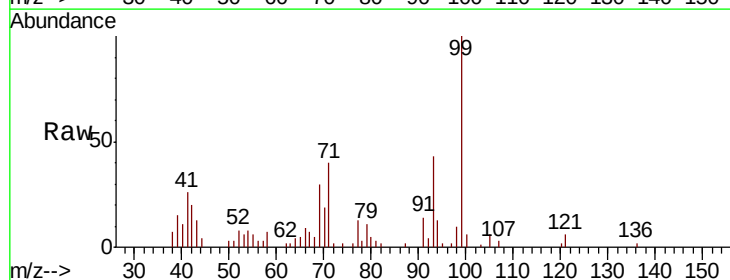
Tgt Ion: 93 Resp: 10009

Ion Ratio Lower Upper

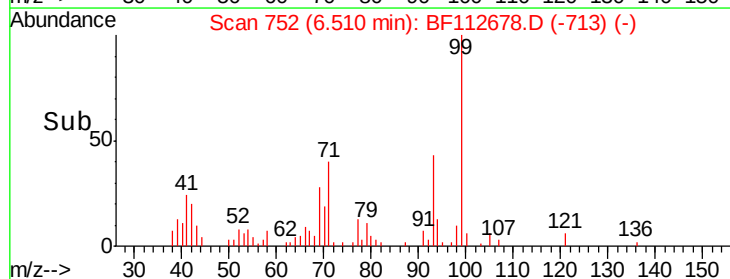
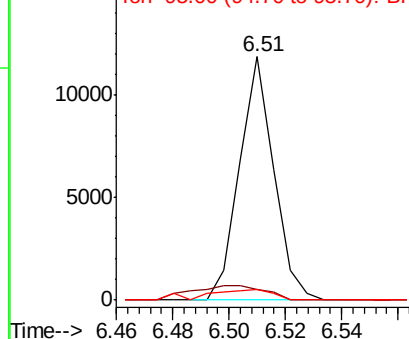
93 100

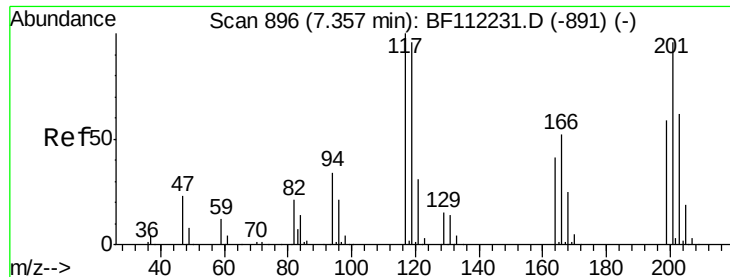
63 4.4 53.3 93.3#

95 4.4 13.4 53.4#



Abundance Ion 93.00 (92.70 to 93.70): BF1
Ion 63.00 (62.70 to 63.70): BF1
Ion 95.00 (94.70 to 95.70): BF1

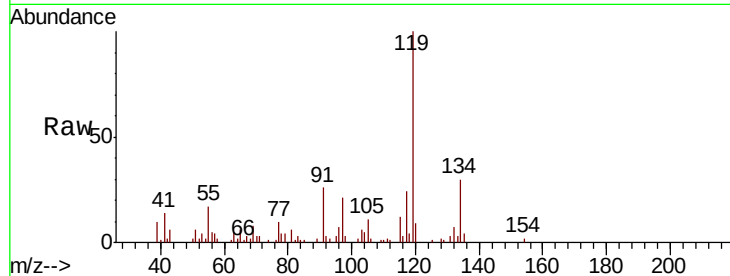




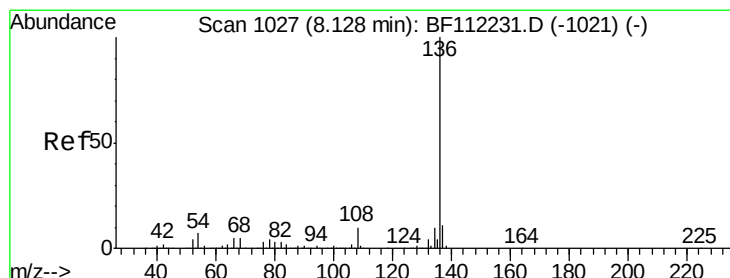
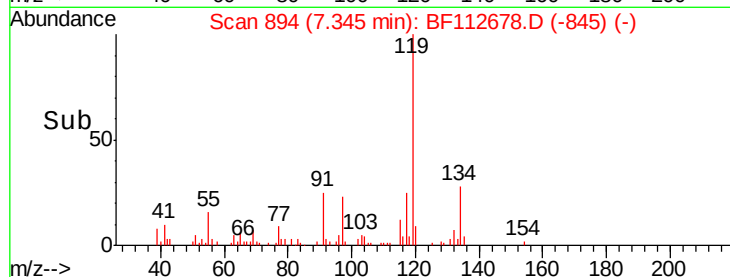
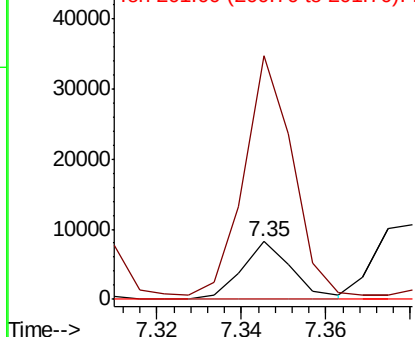
#18
Hexachloroethane
Concen: 3.039 ng
RT: 7.35 min Scan# 894
Delta R.T. -0.01 min
Lab File: BF112678.D
Acq: 22 Feb 2019 21:33

Instrument :
BNA_F
ClientSampleId :
30019

Tgt Ion:117 Resp: 6803
Ion Ratio Lower Upper
117 100
119 420.7 77.0 115.4#
201 0.0 74.1 111.1#

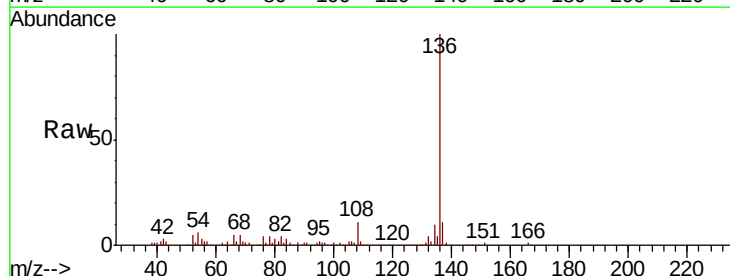


Abundance Ion 117.00 (116.70 to 117.70): E
Ion 119.00 (118.70 to 119.70): E
Ion 201.00 (200.70 to 201.70): E

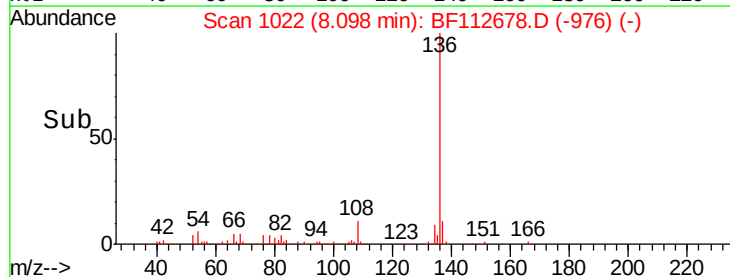
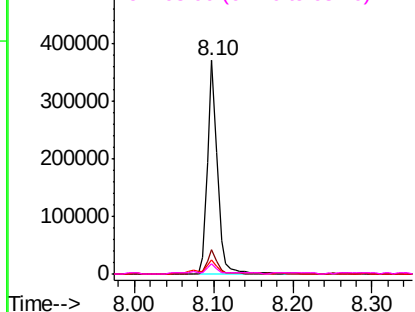


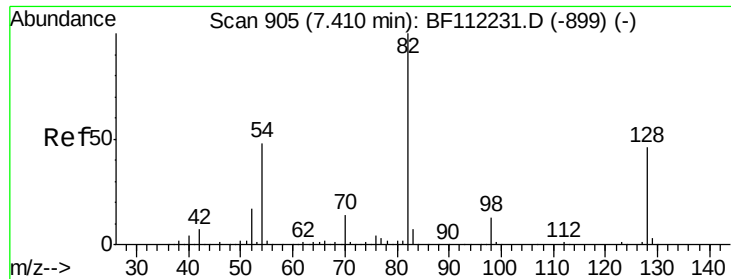
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.10 min Scan# 1022
Delta R.T. -0.03 min
Lab File: BF112678.D
Acq: 22 Feb 2019 21:33

Tgt Ion:136 Resp: 326403
Ion Ratio Lower Upper
136 100
137 11.2 9.1 13.7
54 6.4 5.9 8.9
68 5.0 5.1 7.7#



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

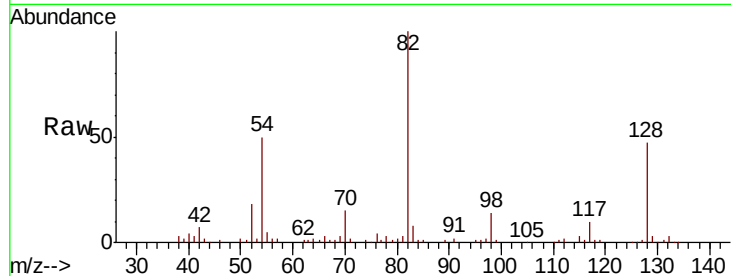




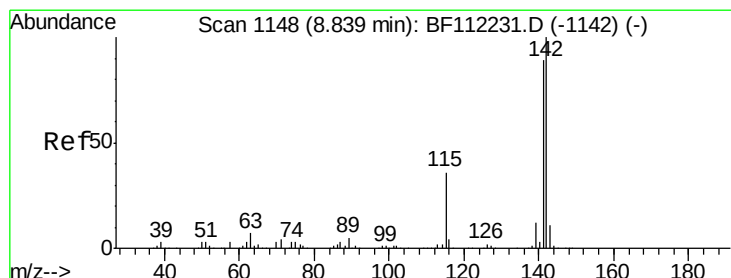
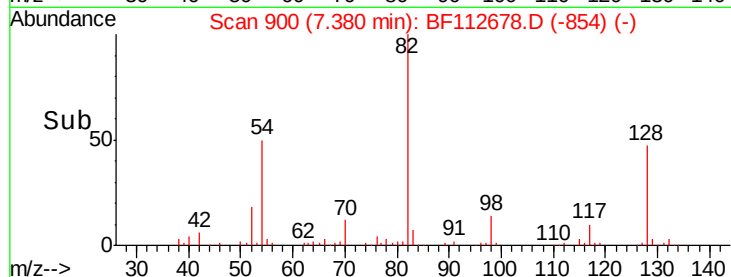
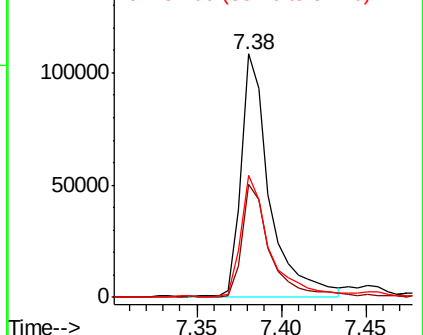
#23
 Nitrobenzene-d5
 Concen: 22.283 ng
 RT: 7.38 min Scan# 900
 Delta R.T. -0.03 min
 Lab File: BF112678.D
 Acq: 22 Feb 2019 21:33

Instrument :
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 ClientSampleId :
 30019

Tgt Ion	Ratio	Lower	Upper
82	100		
128	46.7	37.8	56.8
54	50.1	39.7	59.5

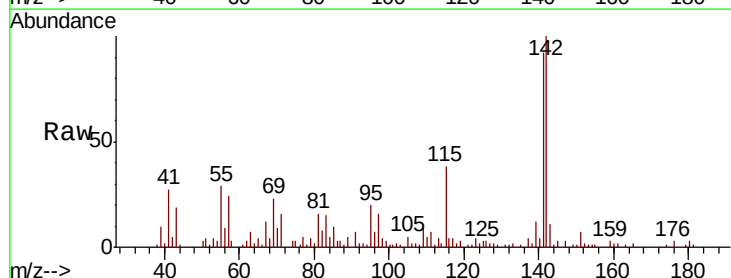


Abundance Ion 82.00 (81.70 to 82.70): BF1
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF1

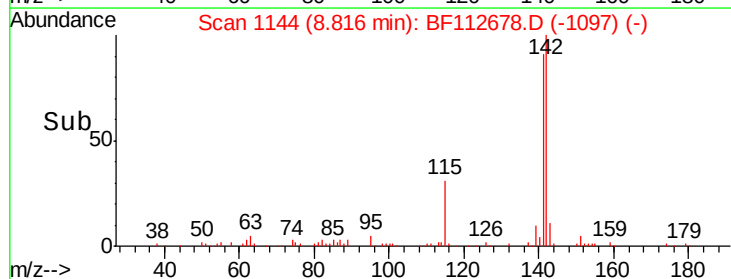
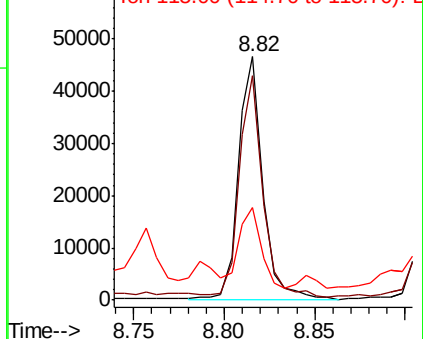


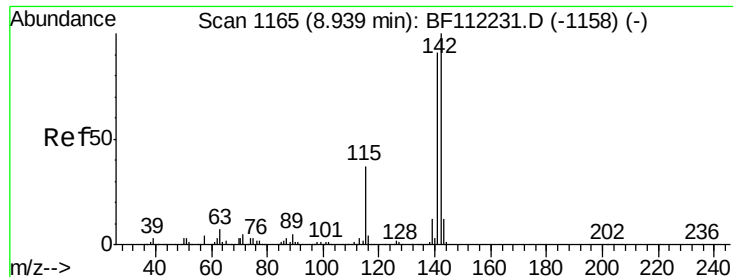
#37
 2-Methylnaphthalene
 Concen: 4.164 ng
 RT: 8.82 min Scan# 1144
 Delta R.T. -0.02 min
 Lab File: BF112678.D
 Acq: 22 Feb 2019 21:33

Tgt Ion	Ratio	Lower	Upper
142	100		
141	92.0	70.9	106.3
115	37.9	24.9	37.3#



Abundance Ion 142.00 (141.70 to 142.70): E
 Ion 141.00 (140.70 to 141.70): E
 Ion 115.00 (114.70 to 115.70): E

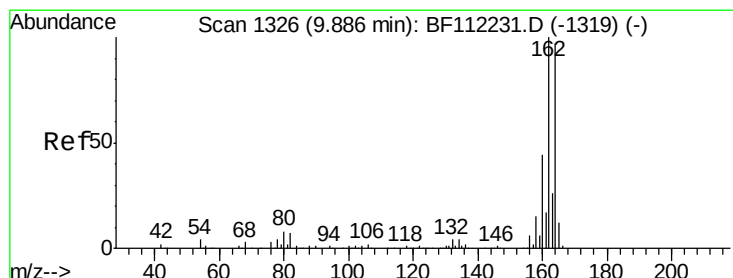
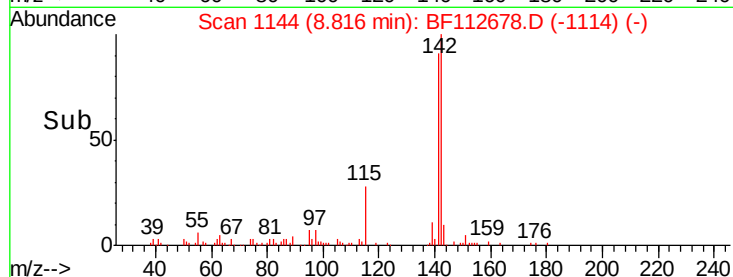
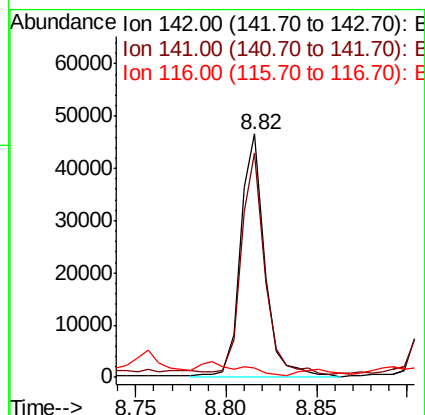
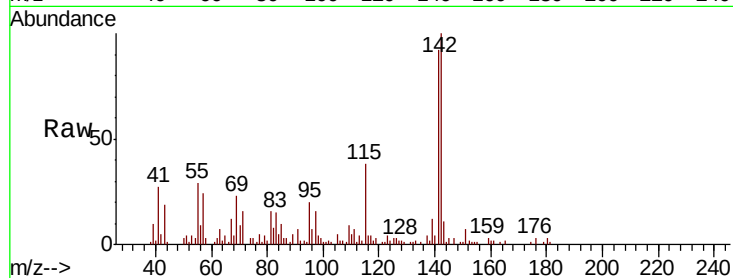




#38
1-Methylnaphthalene
Concen: 4.345 ng
RT: 8.82 min Scan# 1144
Delta R.T. -0.12 min
Lab File: BF112678.D
Acq: 22 Feb 2019 21:33

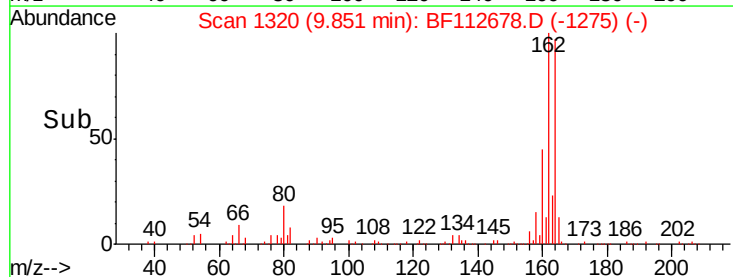
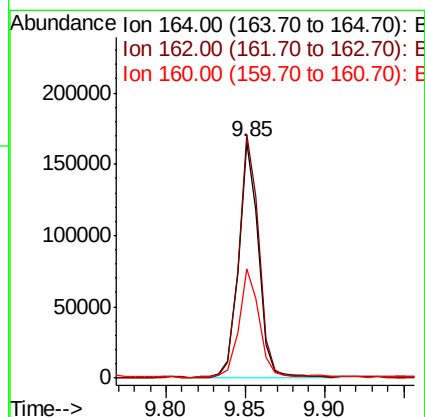
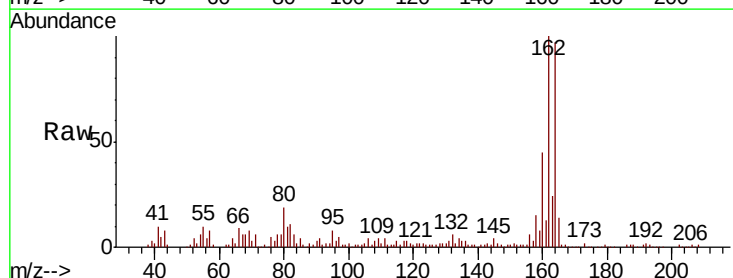
Instrument :
BNA_F
ClientSampleId :
30019

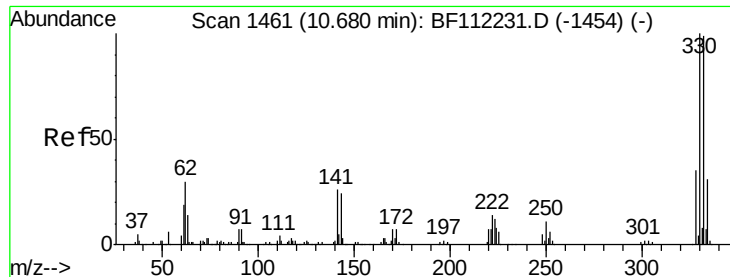
Tgt Ion:142 Resp: 43516
Ion Ratio Lower Upper
142 100
141 92.0 72.6 108.8
116 3.7 2.8 4.2



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.85 min Scan# 1320
Delta R.T. -0.04 min
Lab File: BF112678.D
Acq: 22 Feb 2019 21:33

Tgt Ion:164 Resp: 142132
Ion Ratio Lower Upper
164 100
162 103.2 82.2 123.4
160 46.5 36.2 54.4





#42

2,4,6-Tribromophenol

Concen: 29.086 ng

RT: 10.65 min Scan# 1456

Delta R.T. -0.03 min

Lab File: BF112678.D

Acq: 22 Feb 2019 21:33

Instrument :

BNA_F

ClientSampleId :

30019

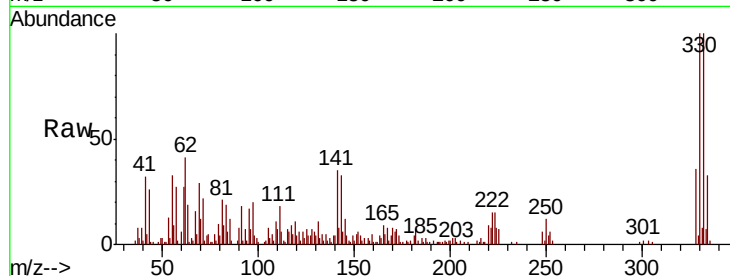
Tgt Ion:330 Resp: 48119

Ion Ratio Lower Upper

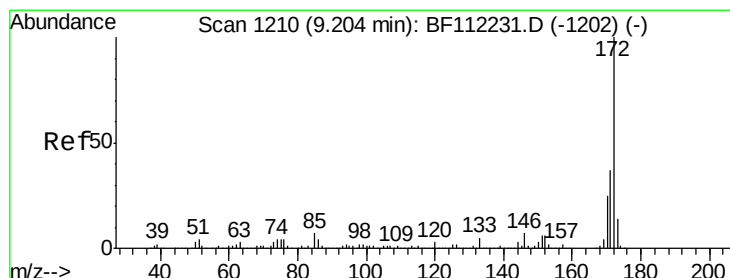
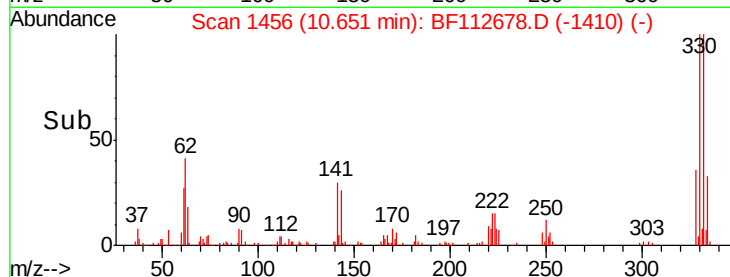
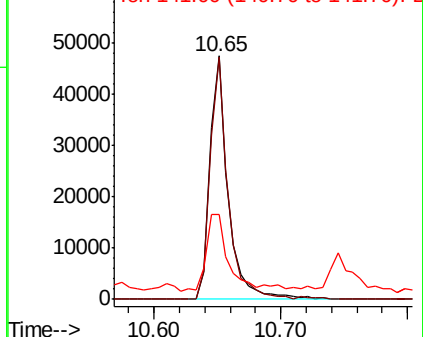
330 100

332 97.7 76.6 114.8

141 37.7 24.3 36.5#



Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E



#45

2-Fluorobiphenyl

Concen: 26.422 ng

RT: 9.17 min Scan# 1204

Delta R.T. -0.04 min

Lab File: BF112678.D

Acq: 22 Feb 2019 21:33

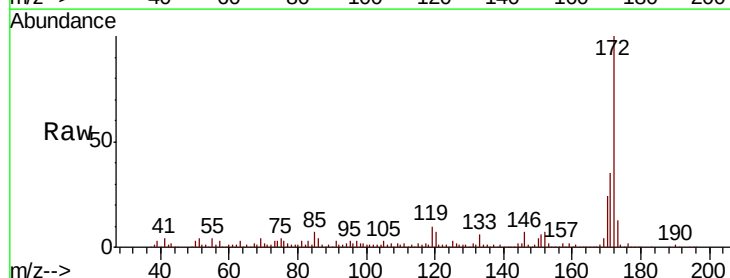
Tgt Ion:172 Resp: 265524

Ion Ratio Lower Upper

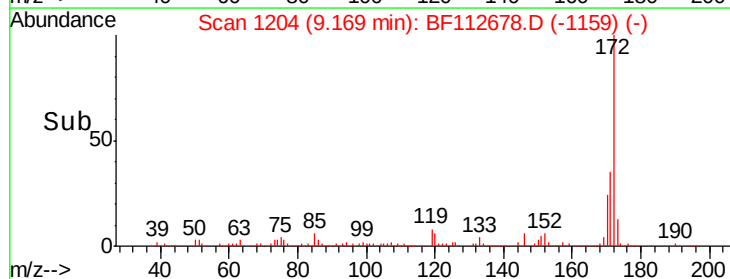
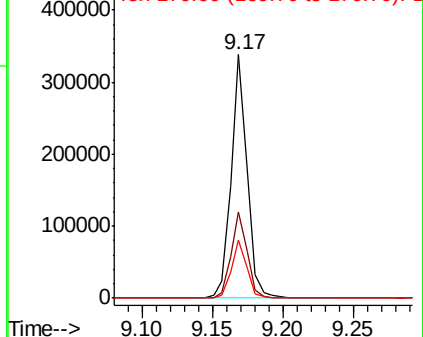
172 100

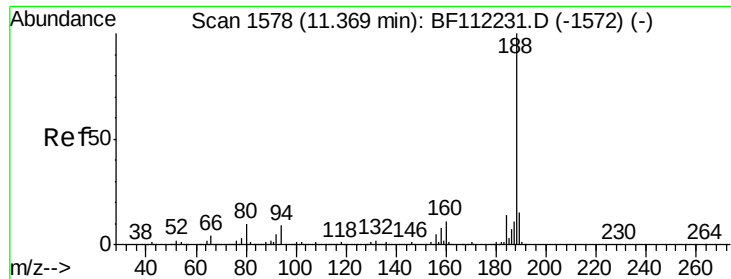
171 35.4 30.5 45.7

170 23.6 20.2 30.4



Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

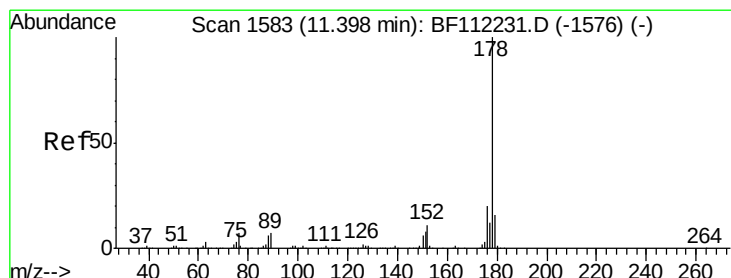
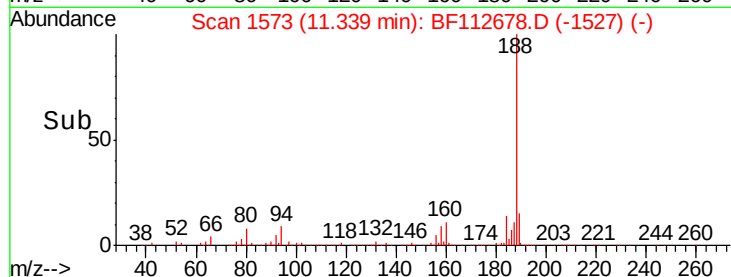
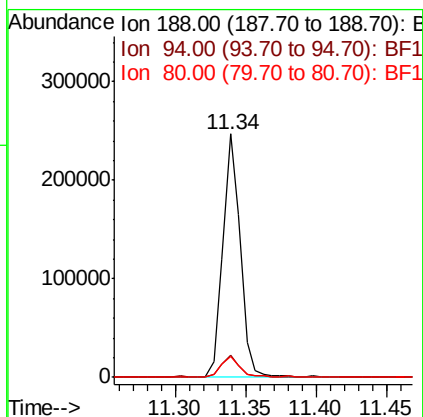
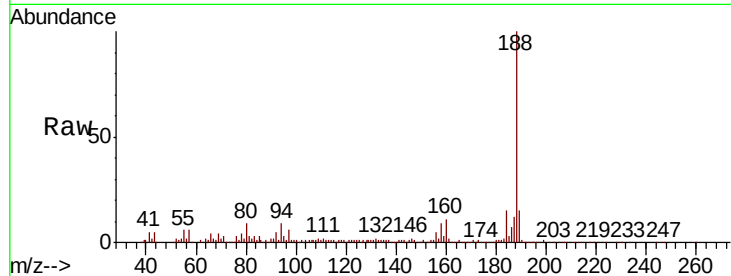




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.34 min Scan# 1573
Delta R.T. -0.03 min
Lab File: BF112678.D
Acq: 22 Feb 2019 21:33

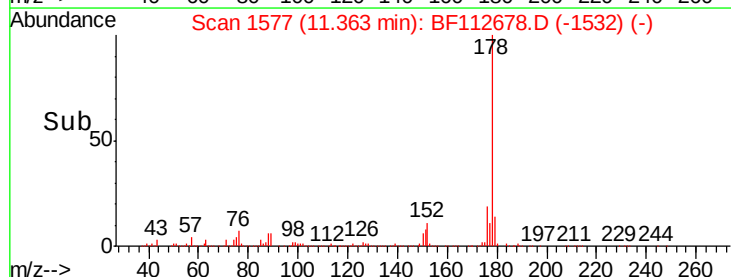
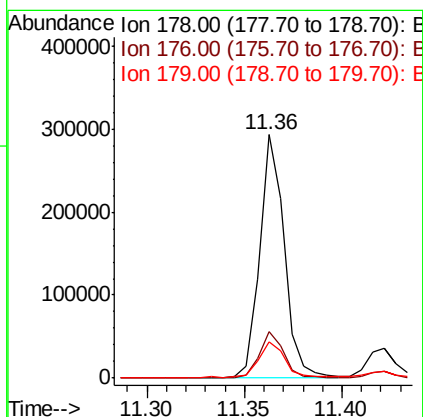
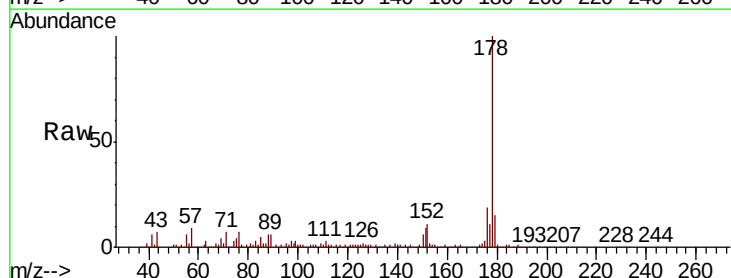
Instrument :
BNA_F
ClientSampleId :
30019

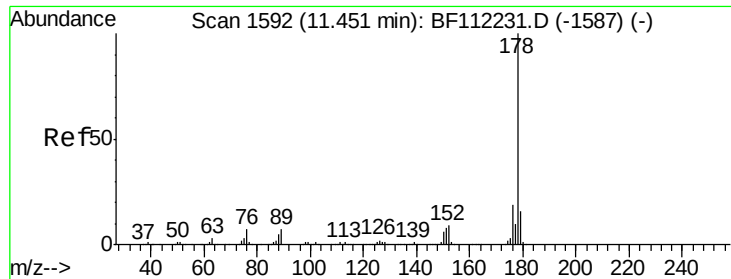
Tgt Ion:188 Resp: 213735
Ion Ratio Lower Upper
188 100
94 8.9 8.2 12.2
80 8.6 8.9 13.3#



#71
Phenanthrene
Concen: 22.848 ng
RT: 11.36 min Scan# 1577
Delta R.T. -0.04 min
Lab File: BF112678.D
Acq: 22 Feb 2019 21:33

Tgt Ion:178 Resp: 253879
Ion Ratio Lower Upper
178 100
176 19.1 16.3 24.5
179 14.8 13.0 19.4

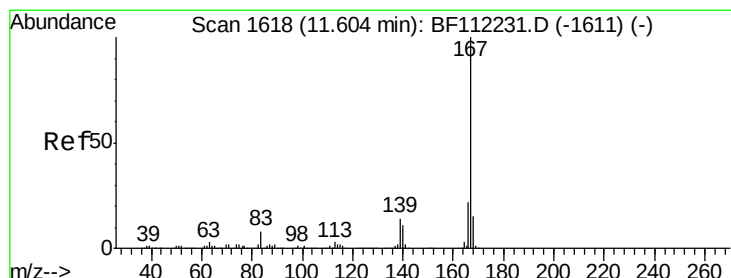
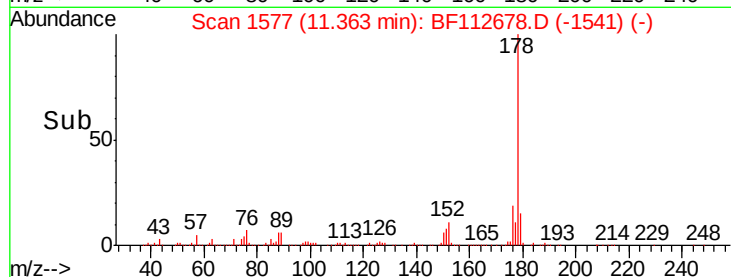
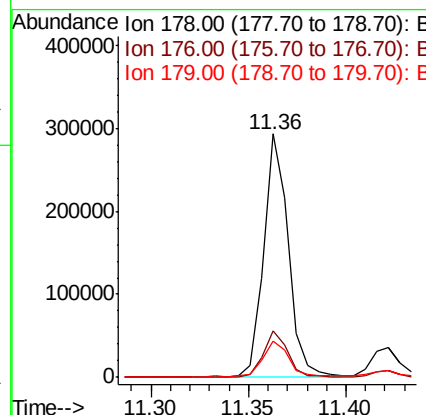
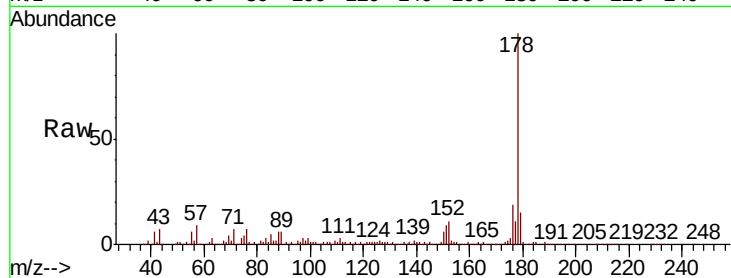




#72
 Anthracene
 Concen: 22.937 ng
 RT: 11.36 min Scan# 1577
 Delta R.T. -0.09 min
 Lab File: BF112678.D
 Acq: 22 Feb 2019 21:33

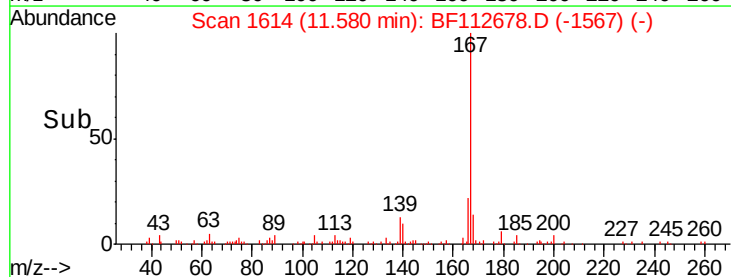
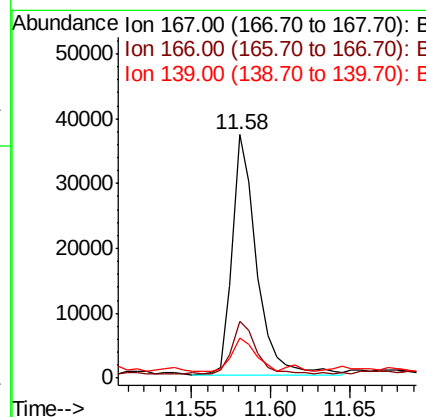
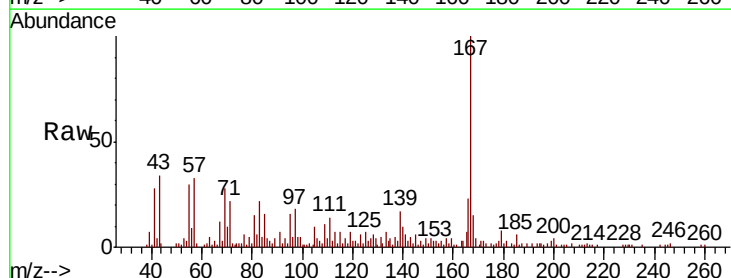
Instrument :
 BNA_F
 ClientSampleId :
 30019

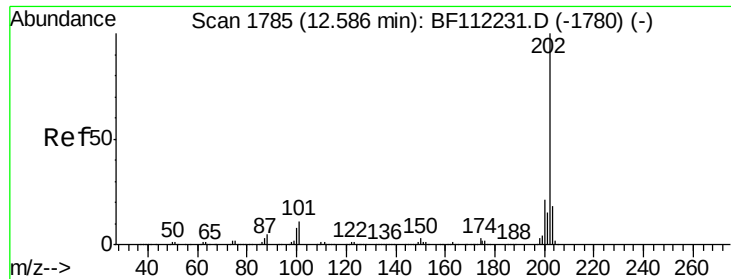
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.5	23.3
179	14.8	12.8	19.2



#73
 Carbazole
 Concen: 3.615 ng
 RT: 11.58 min Scan# 1614
 Delta R.T. -0.02 min
 Lab File: BF112678.D
 Acq: 22 Feb 2019 21:33

Tgt Ion	Ratio	Lower	Upper
167	100		
166	23.5	17.9	26.9
139	16.5	10.2	15.2





#75

Fluoranthene

Concen: 30.796 ng

RT: 12.56 min Scan# 1780

Delta R.T. -0.03 min

Lab File: BF112678.D

Acq: 22 Feb 2019 21:33

Instrument :

BNA_F

ClientSampleId :

30019

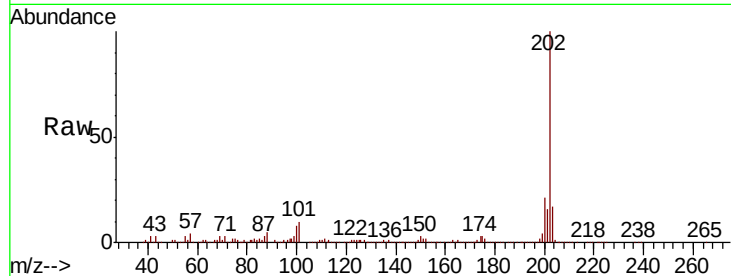
Tgt Ion:202 Resp: 367022

Ion Ratio Lower Upper

202 100

101 9.9 0.0 31.8

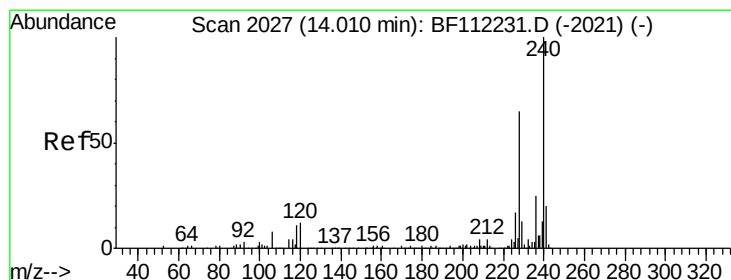
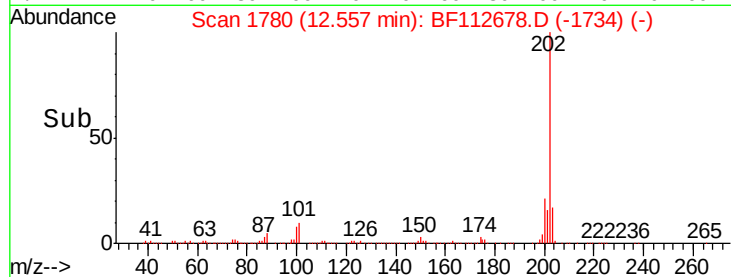
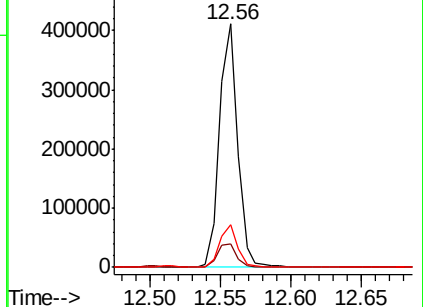
203 17.3 0.0 38.4



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: 13.98 min Scan# 2022

Delta R.T. -0.03 min

Lab File: BF112678.D

Acq: 22 Feb 2019 21:33

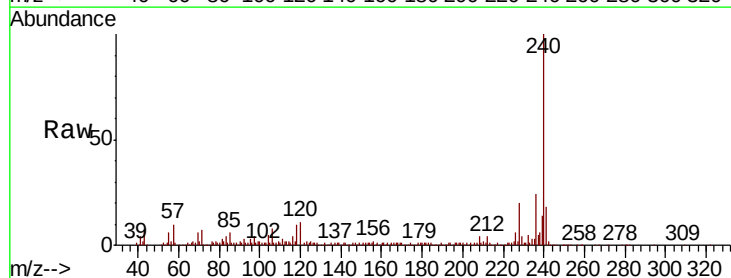
Tgt Ion:240 Resp: 162944

Ion Ratio Lower Upper

240 100

120 11.1 9.0 13.6

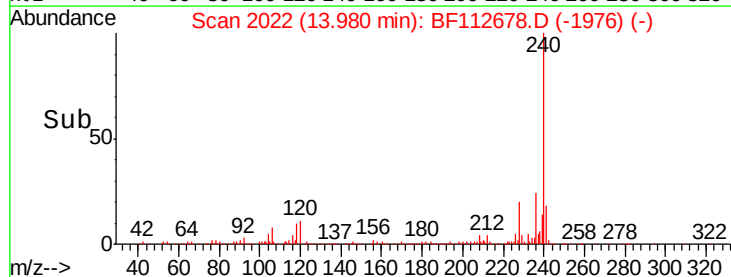
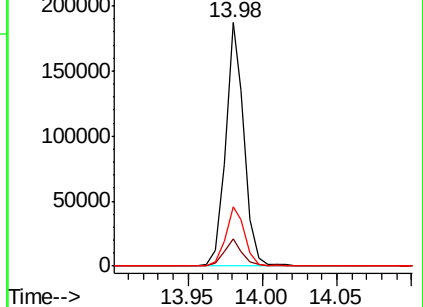
236 24.2 20.7 31.1

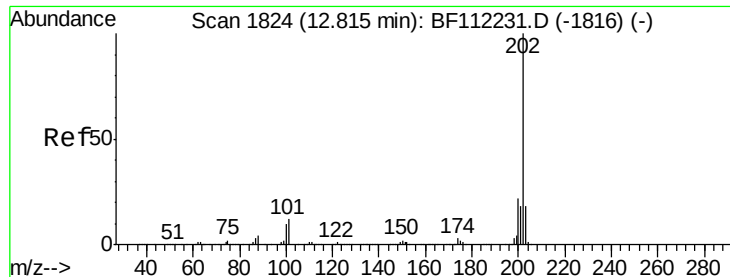


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pyrene

Concen: 24.269 ng

RT: 12.79 min Scan# 1819

Delta R.T. -0.03 min

Lab File: BF112678.D

Acq: 22 Feb 2019 21:33

Instrument :

BNA_F

ClientSampleId :

30019

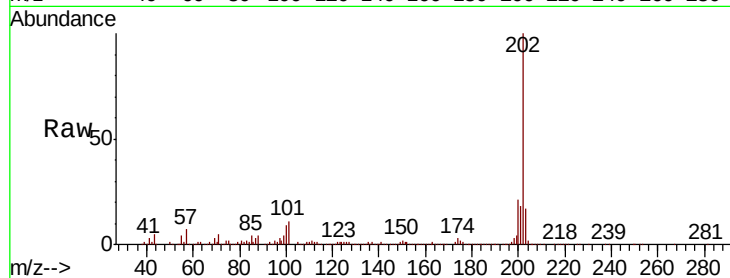
Tgt Ion:202 Resp: 273791

Ion Ratio Lower Upper

202 100

200 21.0 17.7 26.5

203 17.2 14.6 22.0

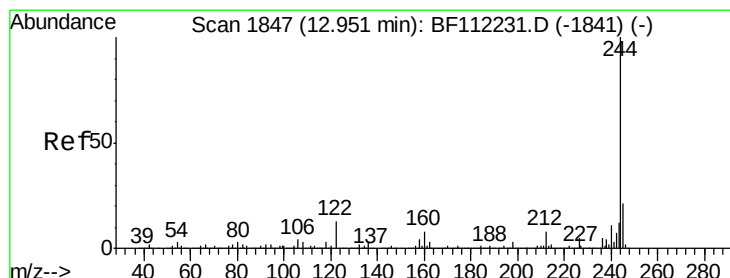
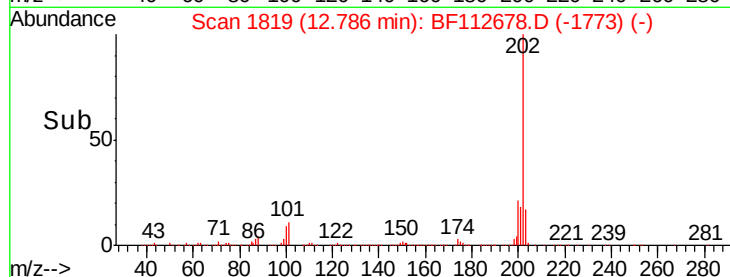
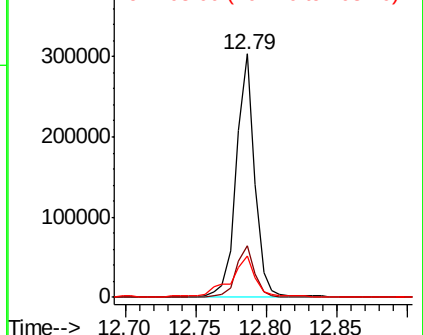


Abundance

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: 21.713 ng

RT: 12.91 min Scan# 1840

Delta R.T. -0.04 min

Lab File: BF112678.D

Acq: 22 Feb 2019 21:33

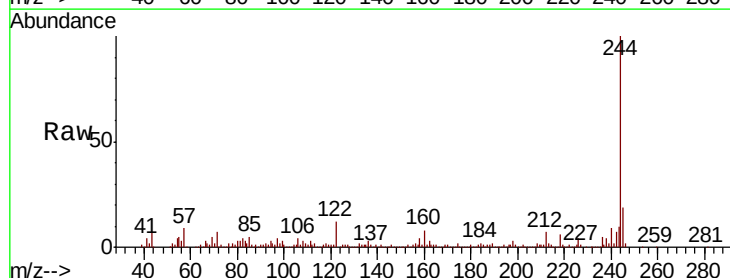
Tgt Ion:244 Resp: 187847

Ion Ratio Lower Upper

244 100

212 6.5 5.9 8.9

122 11.7 9.8 14.6

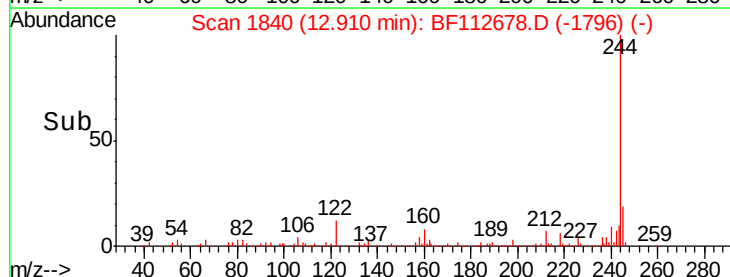
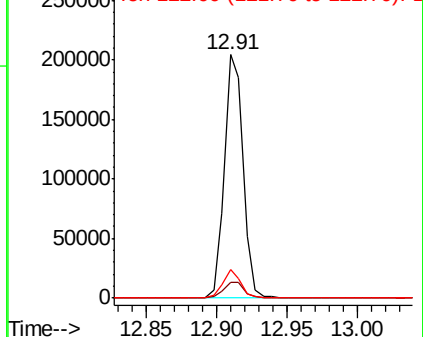


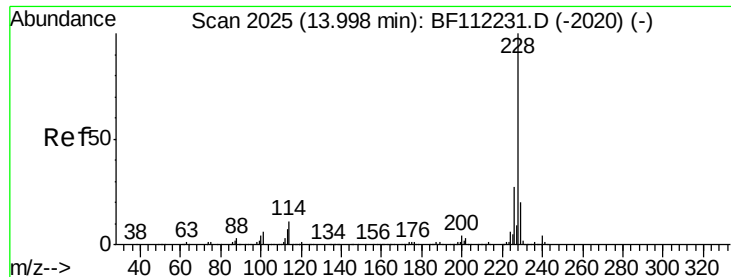
Abundance

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

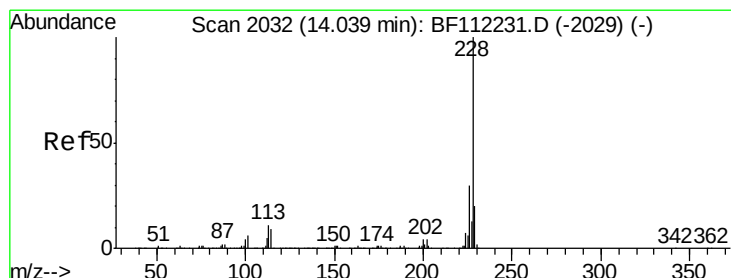
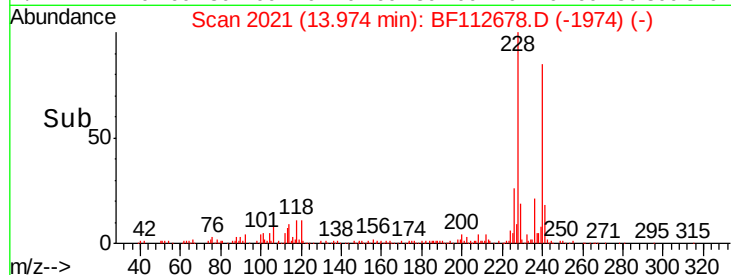
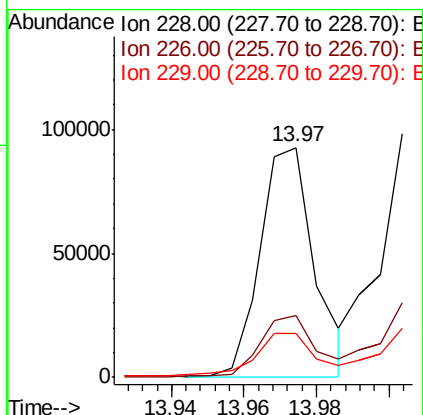
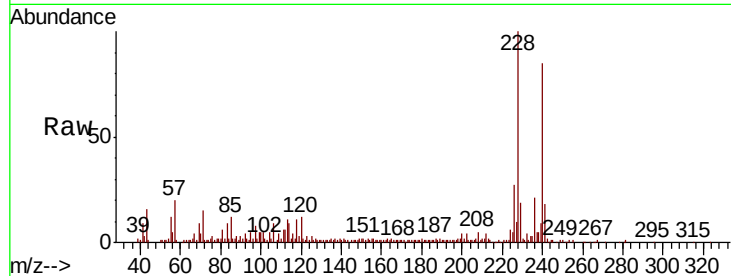




#81
Benzo(a)anthracene
Concen: 10.100 ng
RT: 13.97 min Scan# 2021
Delta R.T. -0.02 min
Lab File: BF112678.D
Acq: 22 Feb 2019 21:33

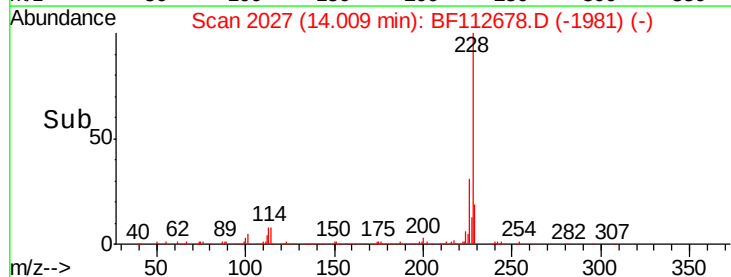
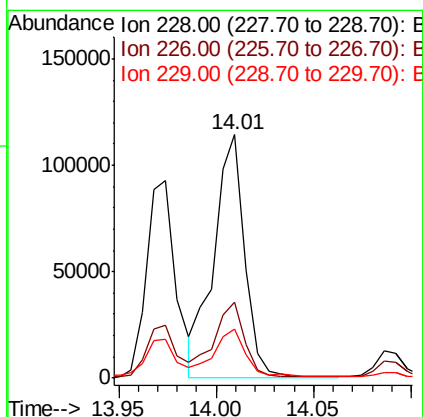
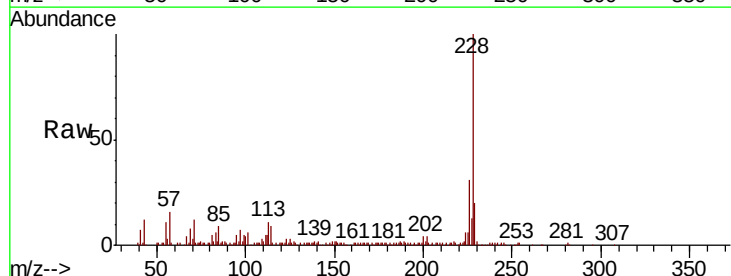
Instrument :
BNA_F
ClientSampleId :
30019

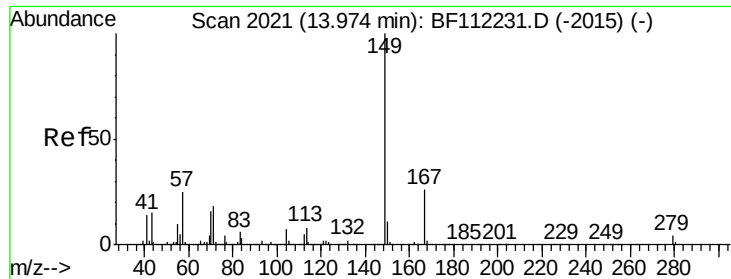
Tgt Ion:228 Resp: 96747
Ion Ratio Lower Upper
228 100
226 26.7 22.6 34.0
229 19.4 16.5 24.7



#83
Chrysene
Concen: 13.745 ng
RT: 14.01 min Scan# 2027
Delta R.T. -0.03 min
Lab File: BF112678.D
Acq: 22 Feb 2019 21:33

Tgt Ion:228 Resp: 125677
Ion Ratio Lower Upper
228 100
226 31.0 25.0 37.6
229 20.2 16.6 24.8





#84

Bis(2-ethylhexyl)phthalate

Concen: 3.723 ng

RT: 13.93 min Scan# 2014

Delta R.T. -0.04 min

Lab File: BF112678.D

Acq: 22 Feb 2019 21:33

Instrument :

BNA_F

ClientSampleId :

30019

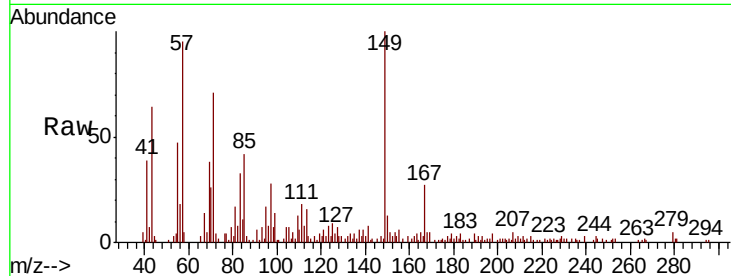
Tgt Ion:149 Resp: 28841

Ion Ratio Lower Upper

149 100

167 27.1 22.5 33.7

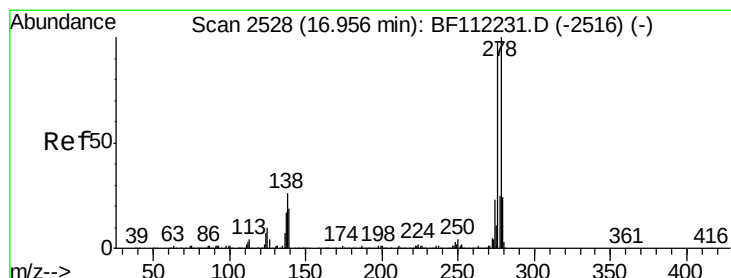
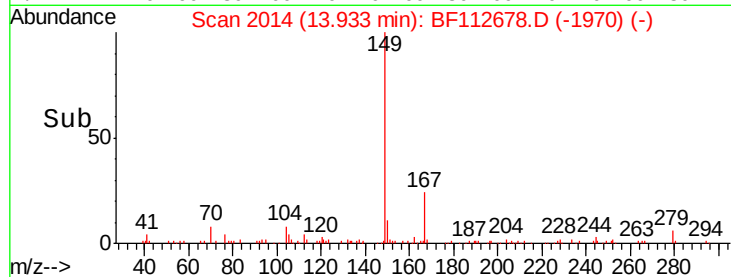
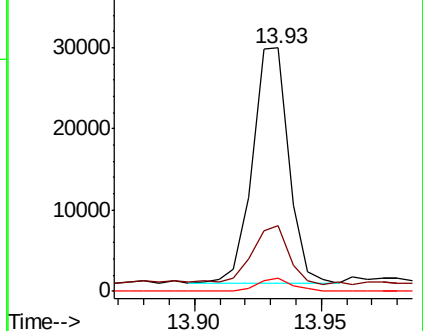
279 5.4 3.8 5.6



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#86

Indeno(1,2,3-cd)pyrene

Concen: 8.213 ng

RT: 16.95 min Scan# 2527

Delta R.T. -0.01 min

Lab File: BF112678.D

Acq: 22 Feb 2019 21:33

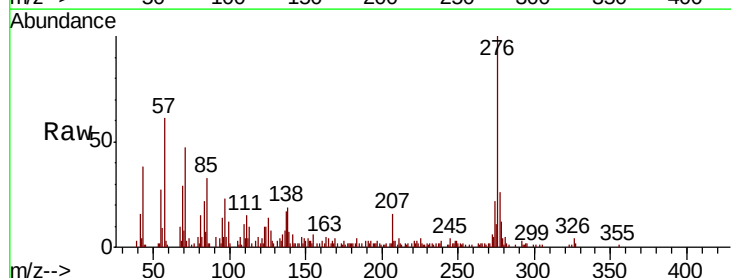
Tgt Ion:276 Resp: 59506

Ion Ratio Lower Upper

276 100

138 19.6 22.6 34.0#

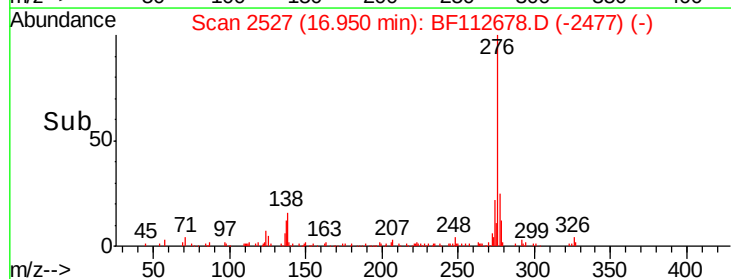
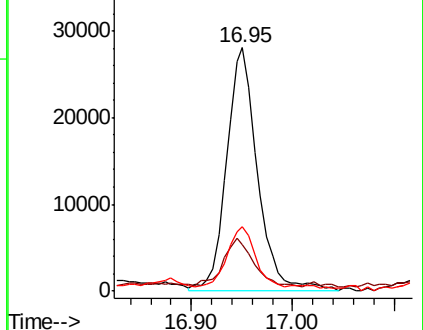
277 24.8 20.3 30.5

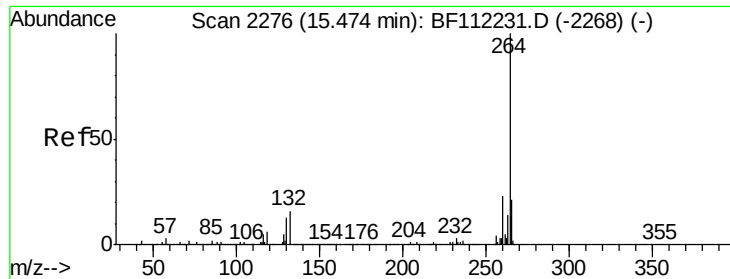


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

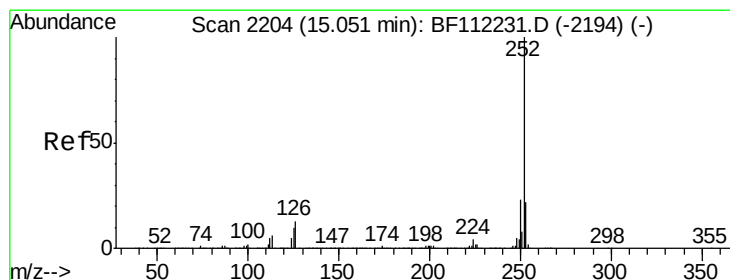
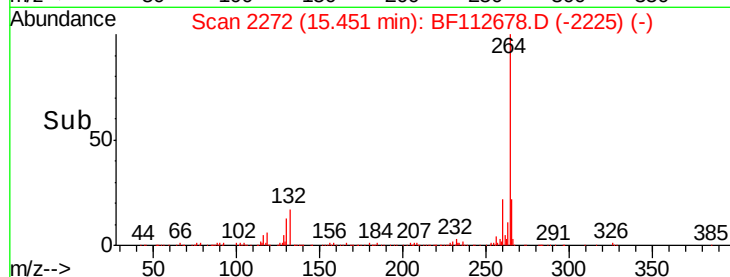
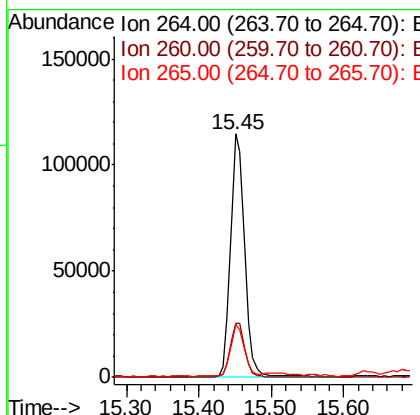
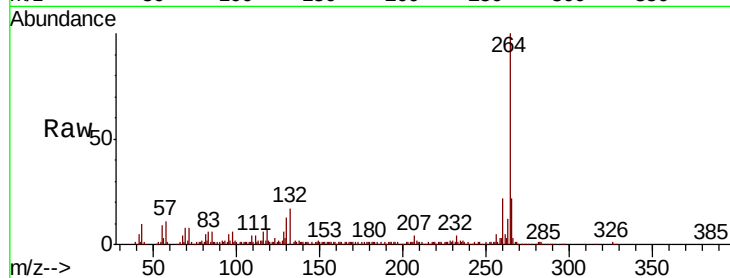




#87
Perylene-d12
Concen: 20.000 ng
RT: 15.45 min Scan# 2272
Delta R.T. -0.02 min
Lab File: BF112678.D
Acq: 22 Feb 2019 21:33

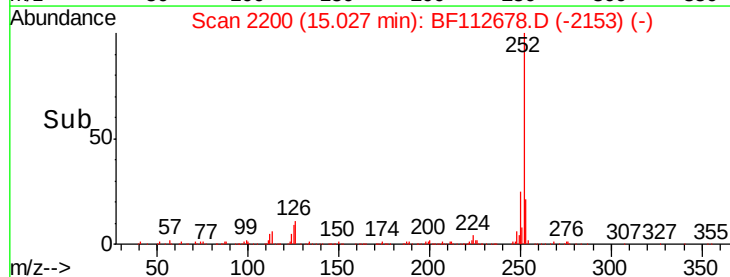
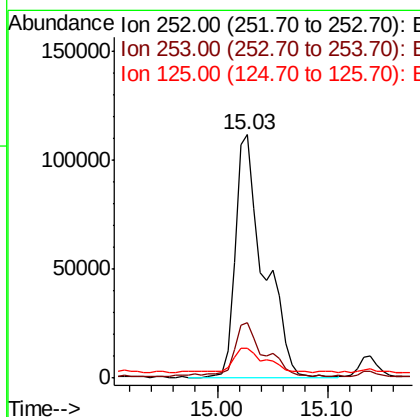
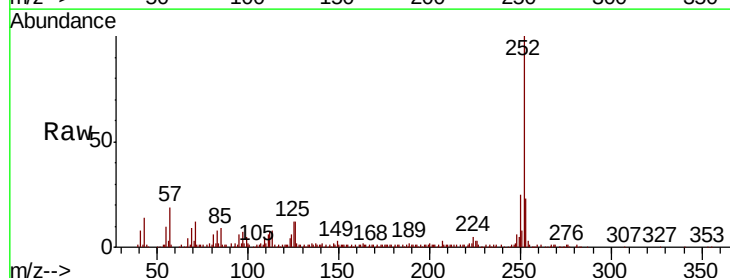
Instrument :
BNA_F
ClientSampleId :
30019

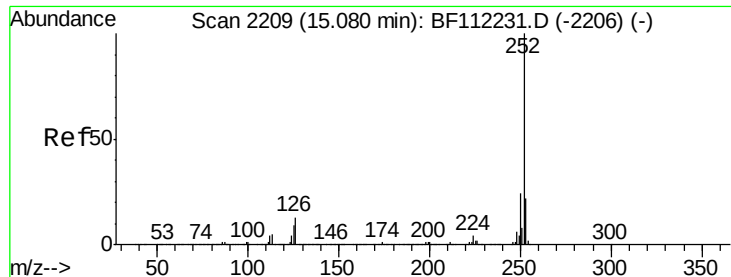
Tgt Ion:264 Resp: 157200
Ion Ratio Lower Upper
264 100
260 22.4 18.2 27.2
265 21.9 17.0 25.4



#88
Benzo(b)fluoranthene
Concen: 21.338 ng
RT: 15.03 min Scan# 2200
Delta R.T. -0.02 min
Lab File: BF112678.D
Acq: 22 Feb 2019 21:33

Tgt Ion:252 Resp: 200604
Ion Ratio Lower Upper
252 100
253 22.9 18.0 27.0
125 12.2 8.7 13.1

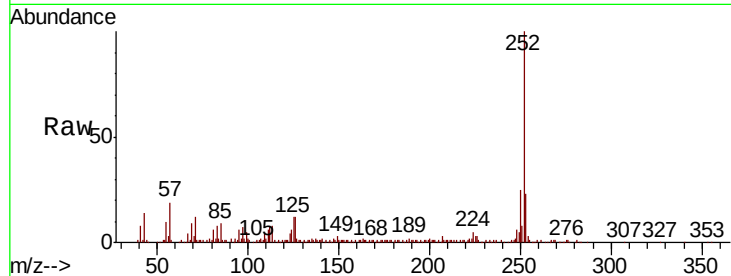




#89
Benzo(k)fluoranthene
Concen: 22.277 ng
RT: 15.03 min Scan# 2200
Delta R.T. -0.05 min
Lab File: BF112678.D
Acq: 22 Feb 2019 21:33

Instrument :
BNA_F
ClientSampled :
30019

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.0	27.0
125	12.2	9.1	13.7

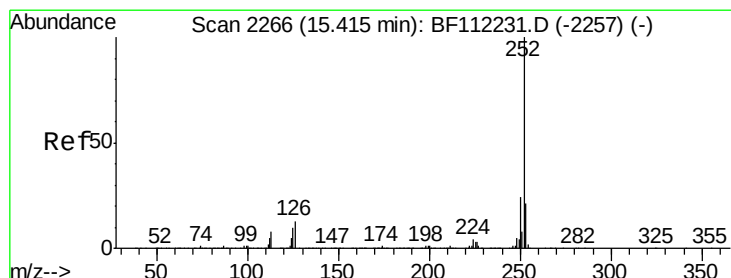
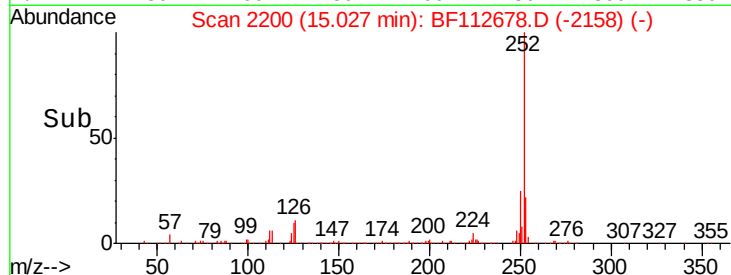
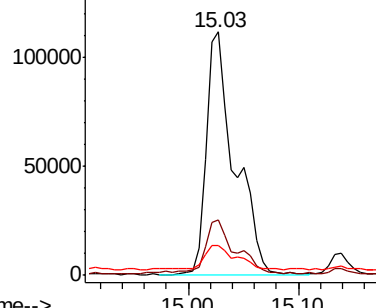


Abundance

Ion 252.00 (251.70 to 252.70): E

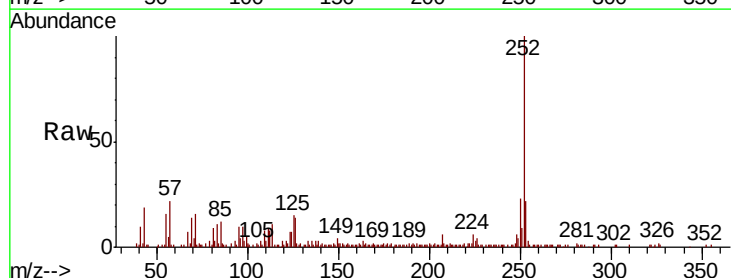
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#90
Benzo(a)pyrene
Concen: 9.775 ng
RT: 15.39 min Scan# 2262
Delta R.T. -0.02 min
Lab File: BF112678.D
Acq: 22 Feb 2019 21:33

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.5	26.3
125	14.9	9.0	13.4#

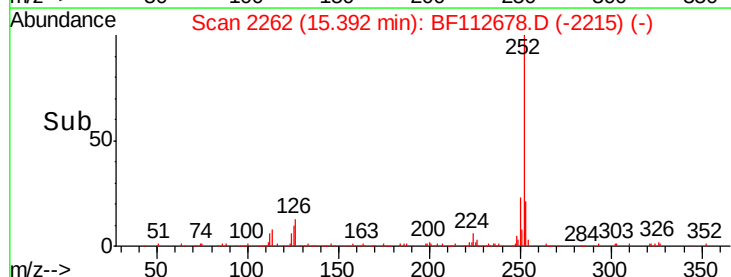
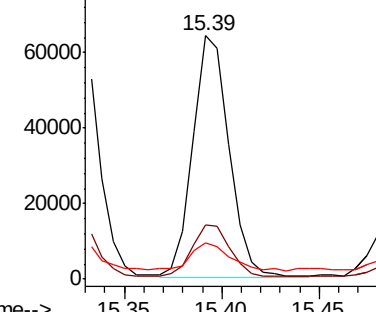


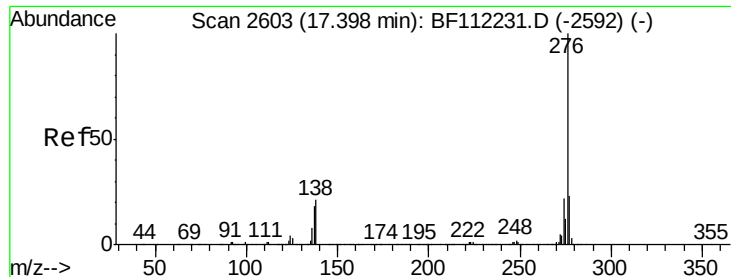
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#92

Benzo(g,h,i)perylene

Concen: 8.358 ng

RT: 17.40 min Scan# 2604

Delta R.T. 0.01 min

Lab File: BF112678.D

Acq: 22 Feb 2019 21:33

Instrument :

BNA_F

ClientSampleId :

30019

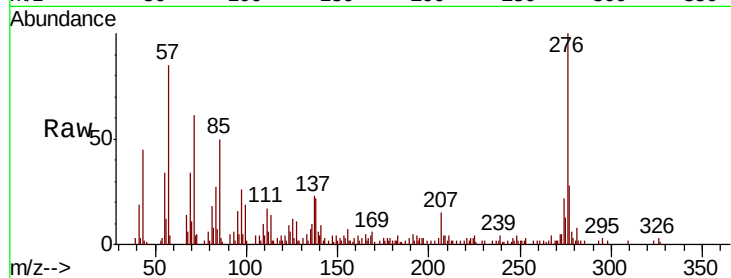
Tgt Ion: 276 Resp: 53760

Ion Ratio Lower Upper

276 100

277 28.1 19.4 29.0

138 21.5 19.1 28.7



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

