

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF020719\
 Data File : BF112446.D
 Acq On : 7 Feb 2019 18:55
 Operator : JU/SJ
 Sample : K1385-04
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 98-SB-101-2-4

Quant Time: Feb 09 03:14:17 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	6.83	152	143723	20.00	ng	-0.02
21) Naphthalene-d8	8.12	136	561419	20.00	ng	-0.01
39) Acenaphthene-d10	9.87	164	260514	20.00	ng	-0.02
64) Phenanthrene-d10	11.36	188	448910	20.00	ng	-0.01
76) Chrysene-d12	14.00	240	330219	20.00	ng	0.00
87) Perylene-d12	15.47	264	285341	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.47	112	866932	128.12	ng	0.00
7) Phenol-d6	6.49	99	1091865	116.13	ng	0.00
23) Nitrobenzene-d5	7.40	82	683810	70.18	ng	-0.01
42) 2,4,6-Tribromophenol	10.66	330	307919	101.55	ng	-0.02
45) 2-Fluorobiphenyl	9.19	172	1294404	70.27	ng	-0.02
79) Terphenyl-d14	12.94	244	1099917	62.74	ng	-0.01

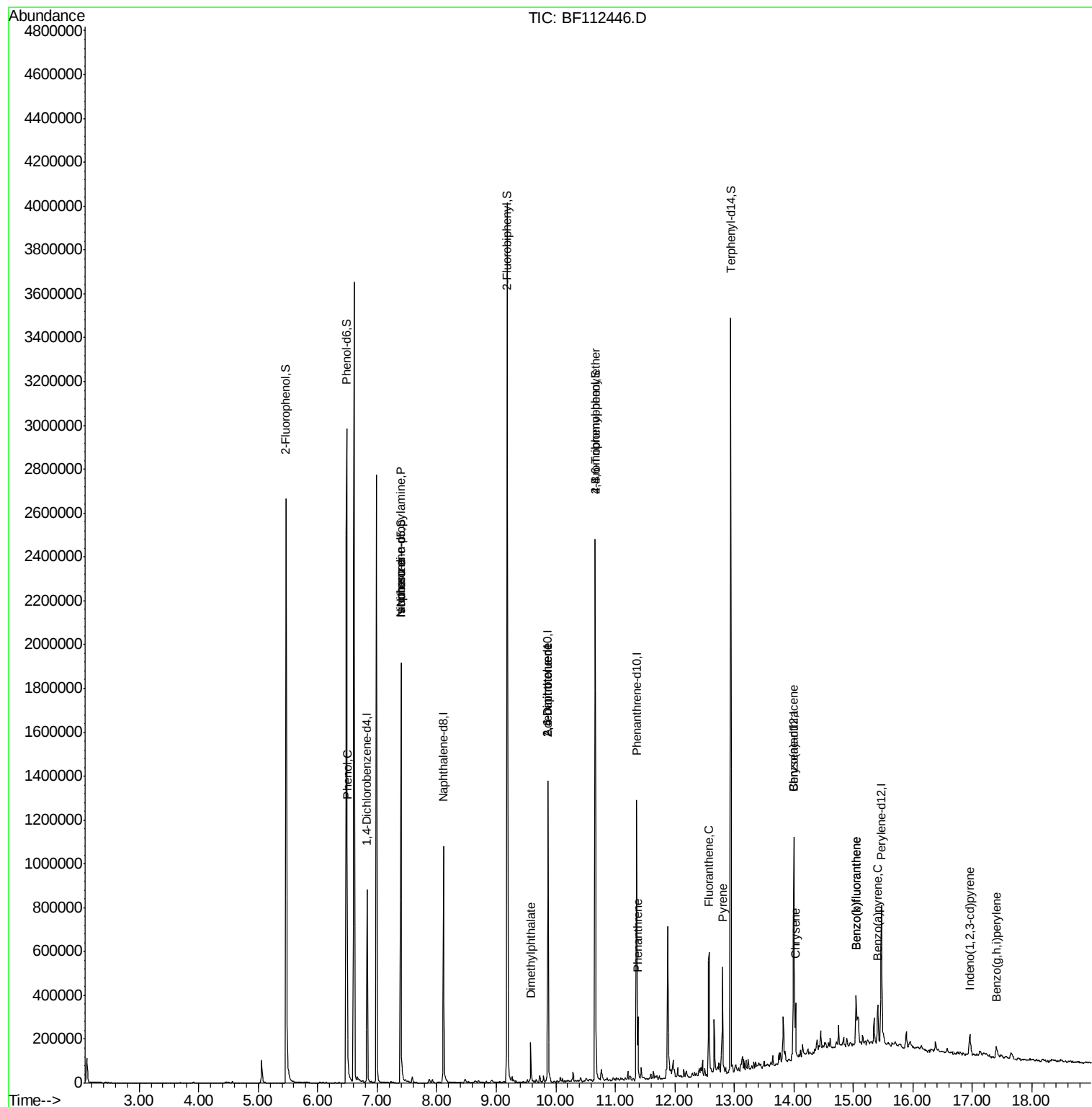
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	6.50	94	57089	5.534	ng	76
19) n-Nitroso-di-n-propylamine	7.40	70	91288	14.081	ng	# 76
25) Isophorone	7.40	82	683805	44.736	ng	# 63
50) Dimethylphthalate	9.58	163	74082	3.660	ng	100
51) 2,6-Dinitrotoluene	9.87	165	33445	7.378	ng	# 34
57) 2,4-Dinitrotoluene	9.87	165	33445	5.795	ng	# 32
67) 4-Bromophenyl-phenylether	10.66	248	18653	3.533	ng	# 1
71) Phenanthrene	11.38	178	101720	4.359	ng	95
75) Fluoranthene	12.57	202	225897	9.024	ng	97
78) Pyrene	12.80	202	200503	8.770	ng	98
81) Benzo(a)anthracene	13.99	228	105355	5.427	ng	99
83) Chrysene	14.03	228	90257	4.871	ng	98
86) Indeno(1,2,3-cd)pyrene	16.96	276	43984	2.996	ng	93
88) Benzo(b)fluoranthene	15.04	252	164961	9.667	ng	97
89) Benzo(k)fluoranthene	15.04	252	164859	10.086	ng	97
90) Benzo(a)pyrene	15.41	252	81658	5.318	ng	98
92) Benzo(a,h,i)perylene	17.40	276	43030	3.686	ng	96

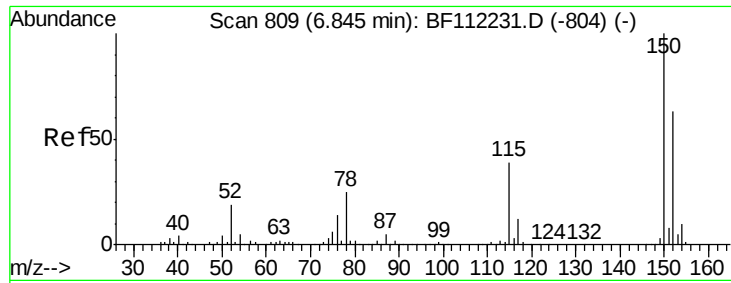
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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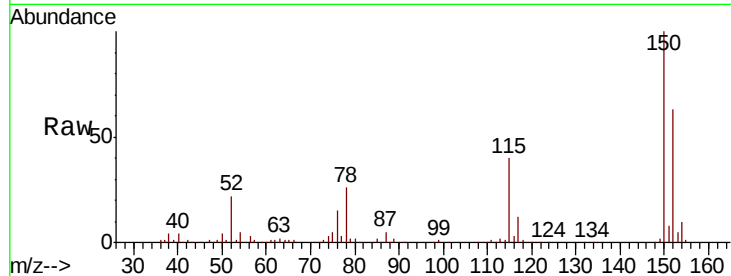


#1

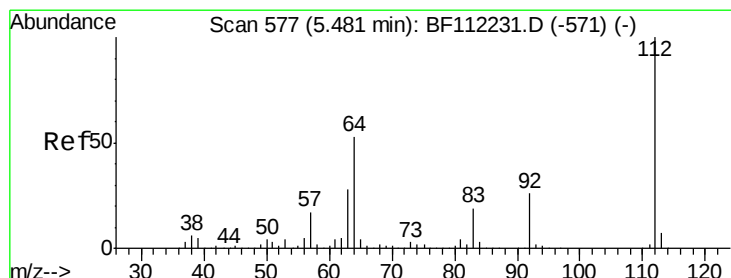
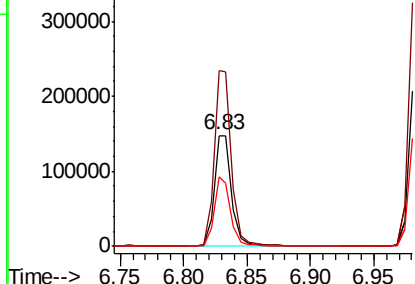
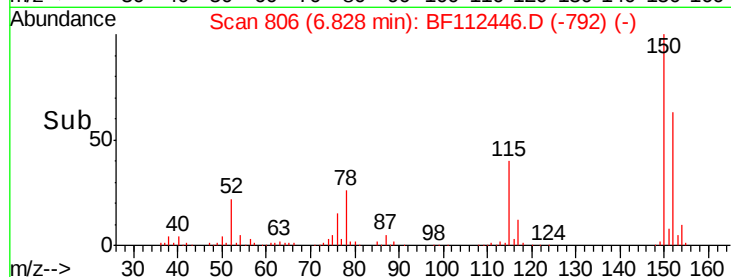
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.83 min Scan# 806
 Delta R.T. -0.02 min
 Lab File: BF112446.D
 Acq: 7 Feb 2019 18:55

Instrument :
 BNA_F
 ClientSampleId :
 98-SB-101-2-4

Tot Ion:152 Resp: 143723
 Ion Ratio Lower Upper
 152 100
 150 157.9 127.4 191.0
 115 62.6 45.5 68.3



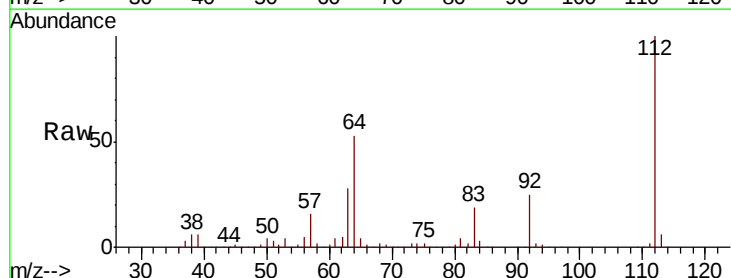
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



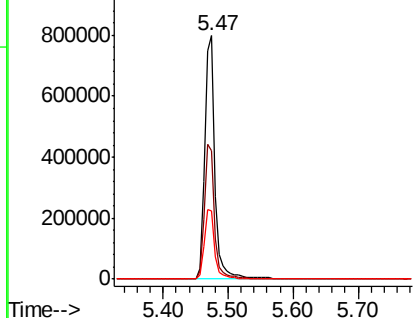
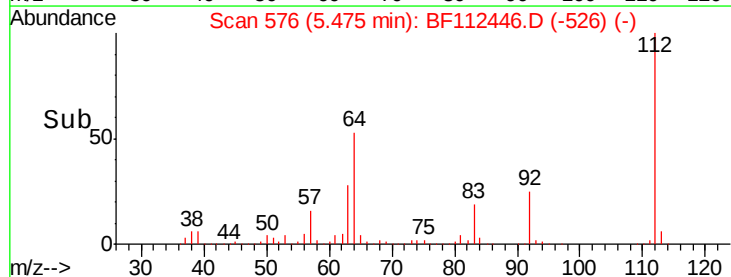
#5

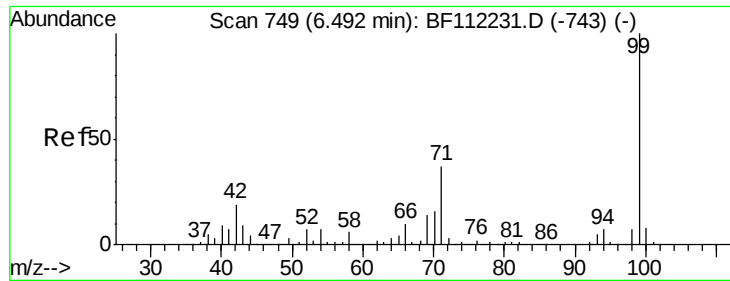
2-Fluorophenol
 Concen: 128.123 ng
 RT: 5.47 min Scan# 576
 Delta R.T. -0.01 min
 Lab File: BF112446.D
 Acq: 7 Feb 2019 18:55

Tgt Ion:112 Resp: 866932
 Ion Ratio Lower Upper
 112 100
 64 52.7 45.7 68.5
 63 28.1 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: 116.128 ng

RT: 6.49 min Scan# 748

Delta R.T. -0.01 min

Lab File: BF112446.D

Acq: 7 Feb 2019 18:55

Instrument :

BNA_F

ClientSampleId :

98-SB-101-2-4

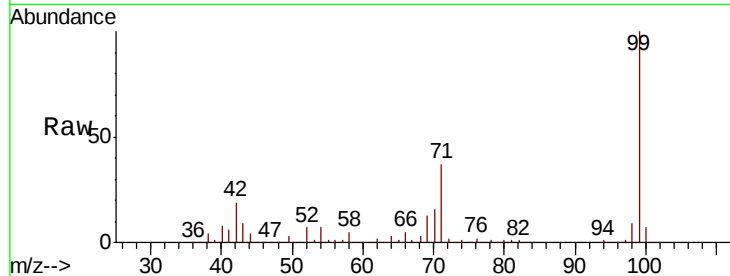
Tot Ion: 99 Resp: 1091865

Ion Ratio Lower Upper

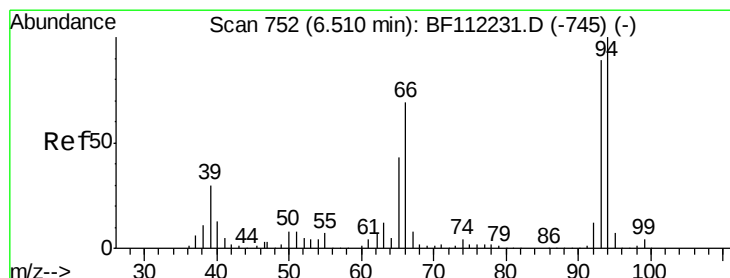
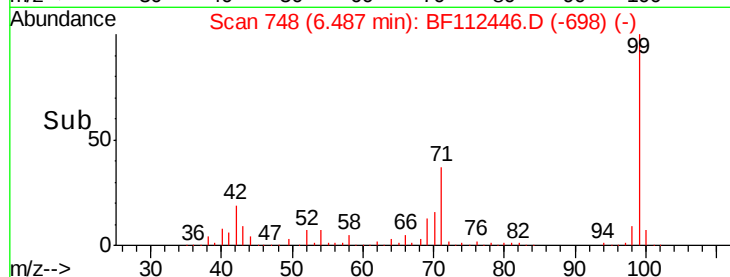
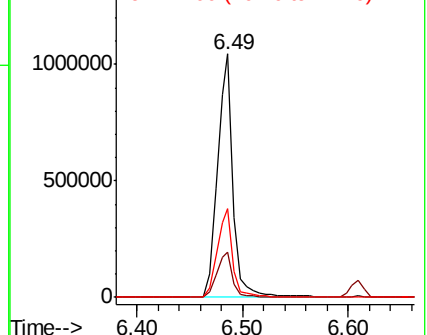
99 100

42 18.5 15.1 22.7

71 36.6 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



#10

Phenol

Concen: 5.534 ng

RT: 6.50 min Scan# 750

Delta R.T. -0.01 min

Lab File: BF112446.D

Acq: 7 Feb 2019 18:55

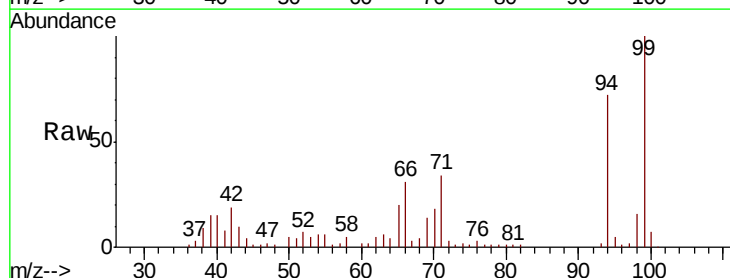
Tgt Ion: 94 Resp: 57089

Ion Ratio Lower Upper

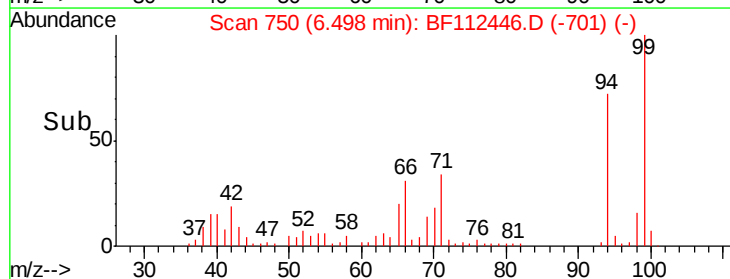
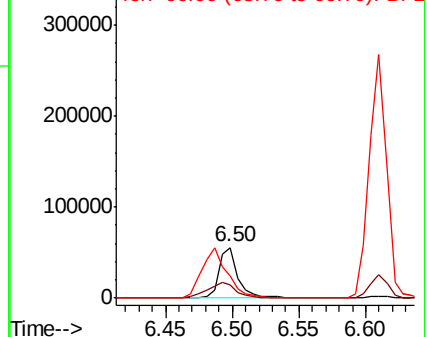
94 100

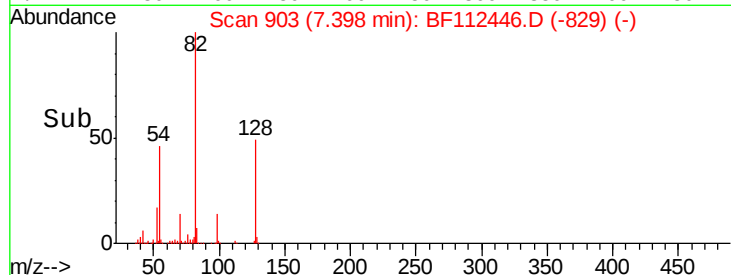
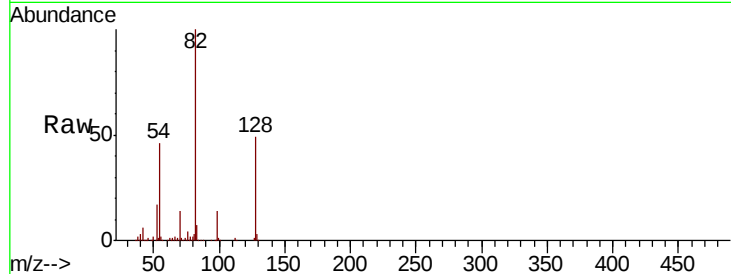
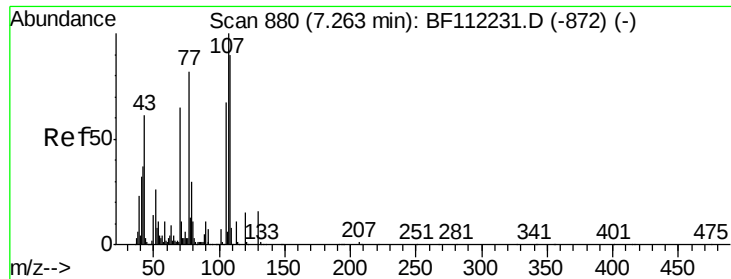
65 27.2 20.3 60.3

66 42.8 42.4 82.4



Abundance Ion 94.00 (93.70 to 94.70): BF1
Ion 65.00 (64.70 to 65.70): BF1
Ion 66.00 (65.70 to 66.70): BF1

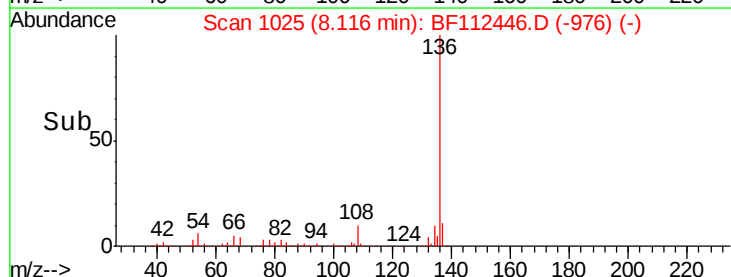
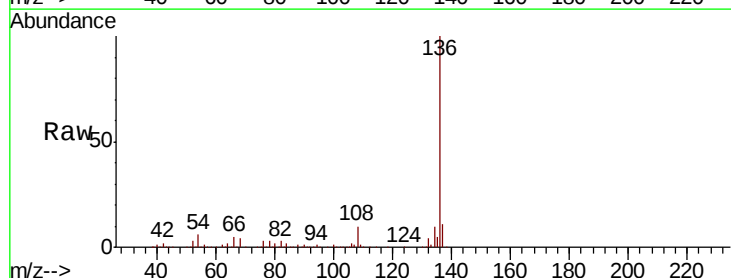
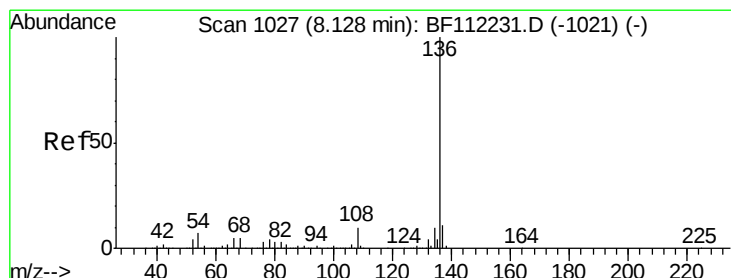
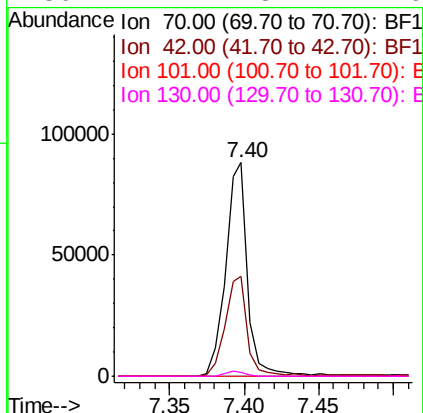




#19
n-Nitroso-di-n-propylamine
Concen: 14.081 ng
RT: 7.40 min Scan# 903
Delta R.T. 0.14 min
Lab File: BF112446.D
Acq: 7 Feb 2019 18:55

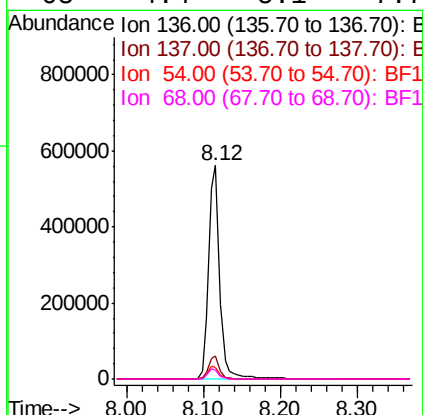
Instrument :
BNA_F
ClientSampleId :
98-SB-101-2-4

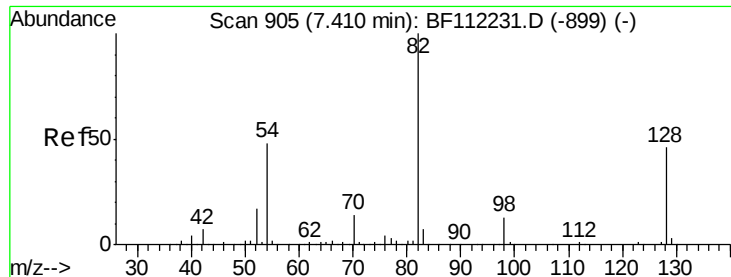
Tot Ion:	70	Resp:	91288
Ion	Ratio	Lower	Upper
70	100		
42	47.0	47.6	71.4#
101	0.0	7.9	11.9#
130	1.7	18.4	27.6#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.12 min Scan# 1025
Delta R.T. -0.01 min
Lab File: BF112446.D
Acq: 7 Feb 2019 18:55

Tgt Ion:	136	Resp:	561419
Ion	Ratio	Lower	Upper
136	100		
137	10.8	9.1	13.7
54	5.5	5.9	8.9#
68	4.4	5.1	7.7#

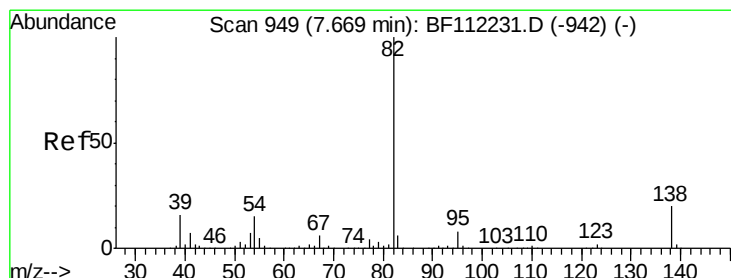
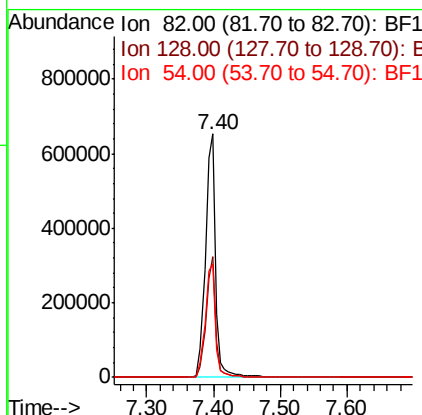
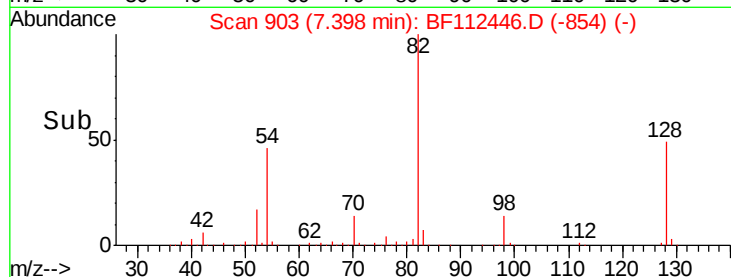
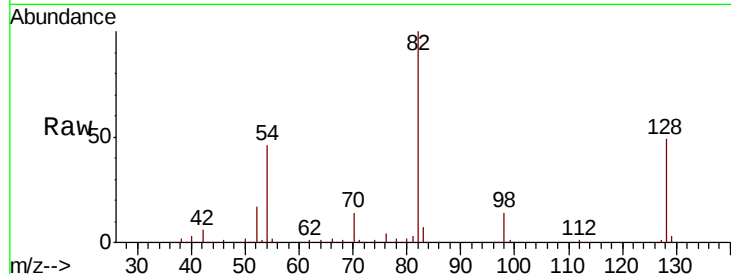




#23
 Nitrobenzene-d5
 Concen: 70.181 ng
 RT: 7.40 min Scan# 903
 Delta R.T. -0.01 min
 Lab File: BF112446.D
 Acq: 7 Feb 2019 18:55

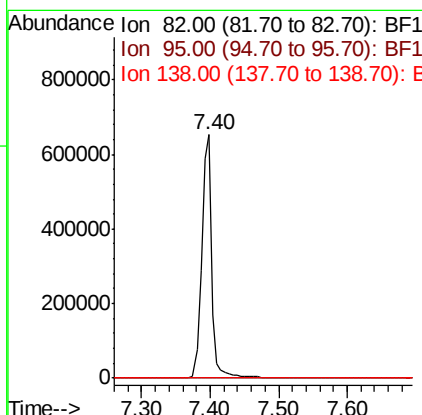
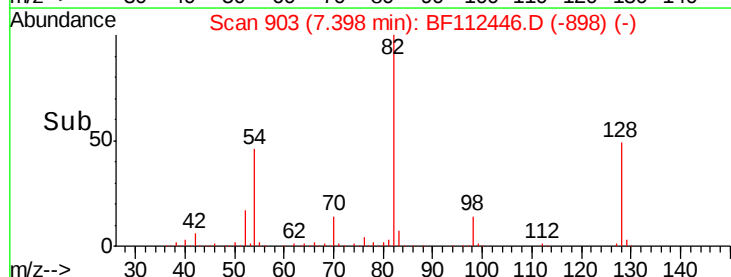
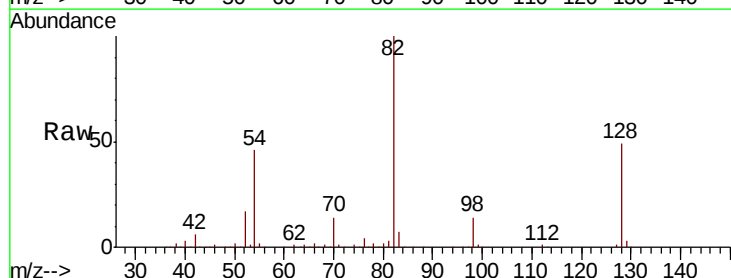
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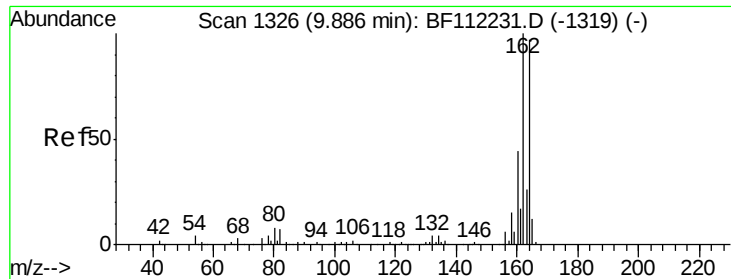
Tot Ion	82	Resp	683810
Ion Ratio	Lower	Upper	
82	100		
128	49.4	37.8	56.8
54	46.5	39.7	59.5



#25
 Isophorone
 Concen: 44.736 ng
 RT: 7.40 min Scan# 903
 Delta R.T. -0.27 min
 Lab File: BF112446.D
 Acq: 7 Feb 2019 18:55

Tgt Ion	82	Resp	683805
Ion Ratio	Lower	Upper	
82	100		
95	0.0	5.7	8.5#
138	0.0	15.4	23.0#

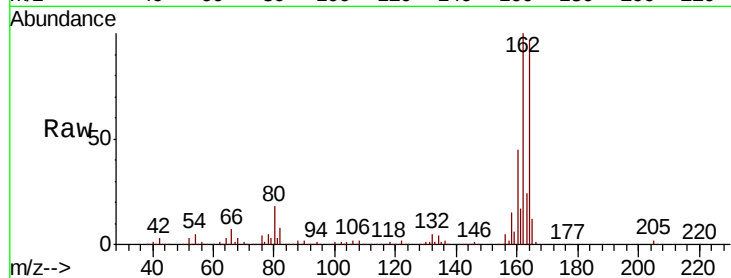




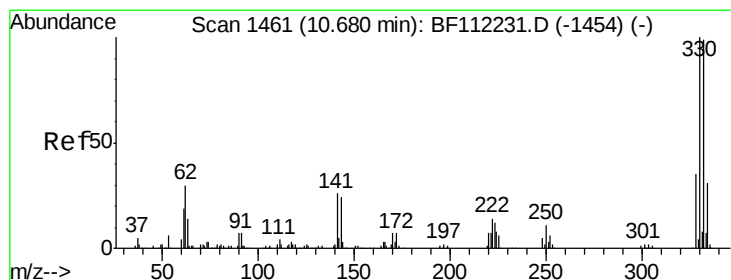
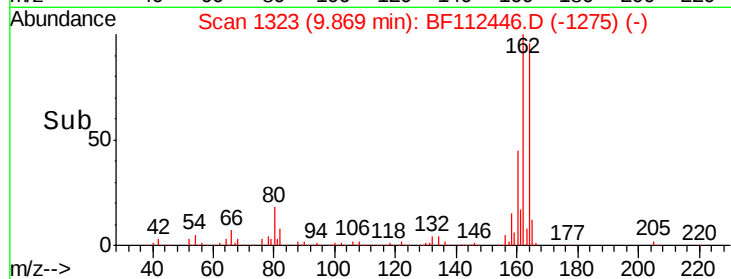
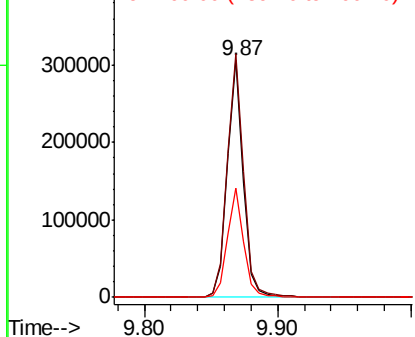
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.87 min Scan# 1323
Delta R.T. -0.02 min
Lab File: BF112446.D
Acq: 7 Feb 2019 18:55

Instrument :
BNA_F
ClientSampleId :
98-SB-101-2-4

Tot Ion:164 Resp: 260514
Ion Ratio Lower Upper
164 100
162 102.9 82.2 123.4
160 46.0 36.2 54.4

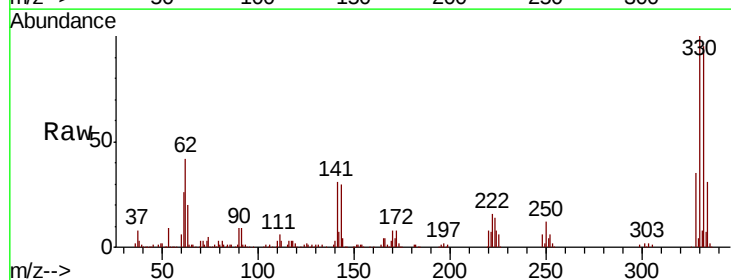


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

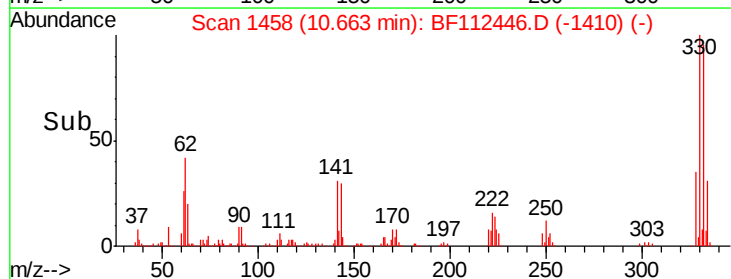
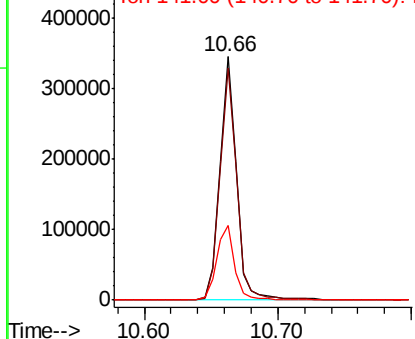


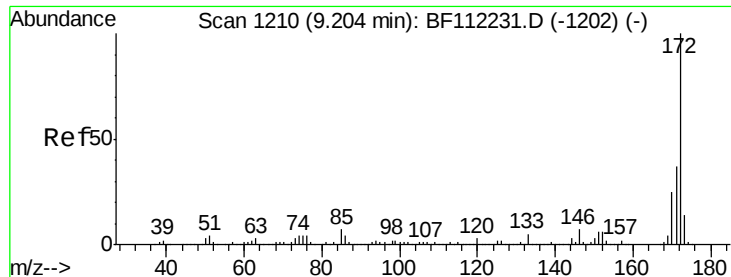
#42
2,4,6-Tribromophenol
Concen: 101.546 ng
RT: 10.66 min Scan# 1458
Delta R.T. -0.02 min
Lab File: BF112446.D
Acq: 7 Feb 2019 18:55

Tgt Ion:330 Resp: 307919
Ion Ratio Lower Upper
330 100
332 97.1 76.6 114.8
141 33.0 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

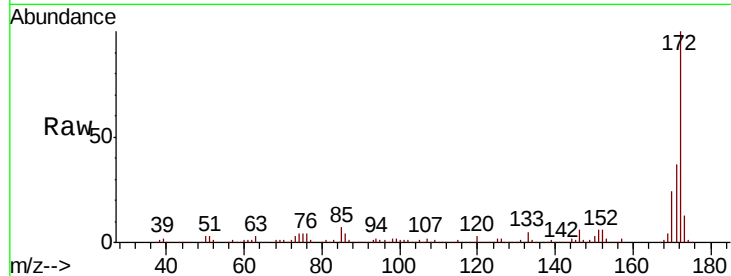




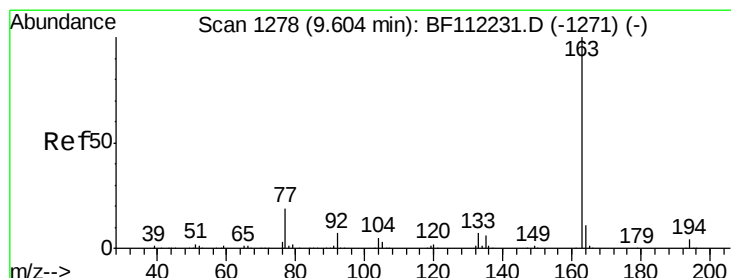
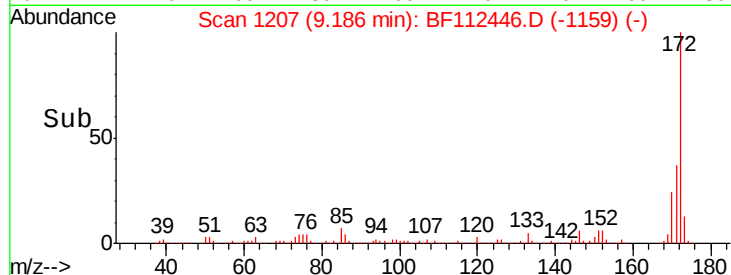
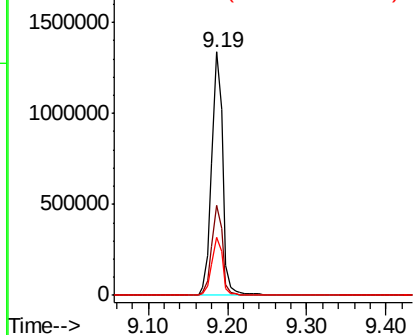
#45
2-Fluorobiphenyl
Concen: 70.274 ng
RT: 9.19 min Scan# 1207
Delta R.T. -0.02 min
Lab File: BF112446.D
Acq: 7 Feb 2019 18:55

Instrument :
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98-SB-101-2-4

Tot Ion:172 Resp: 1294404
Ion Ratio Lower Upper
172 100
171 37.1 30.5 45.7
170 24.1 20.2 30.4

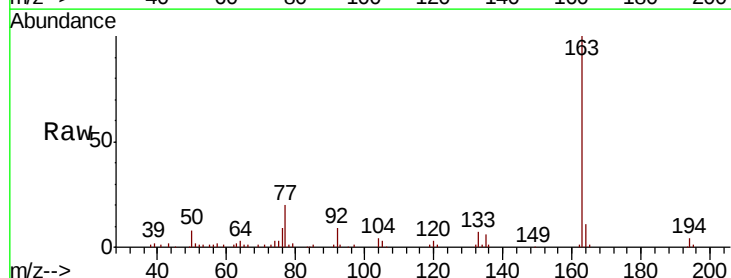


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

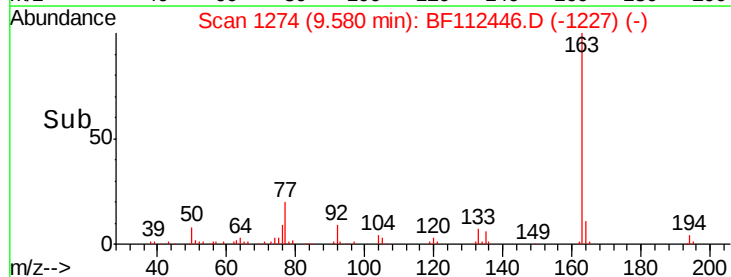
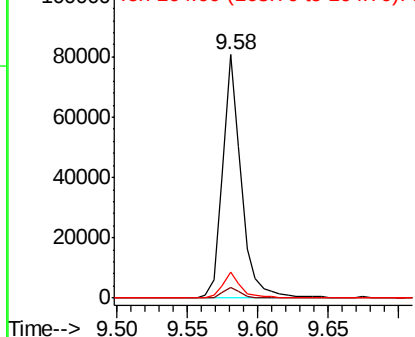


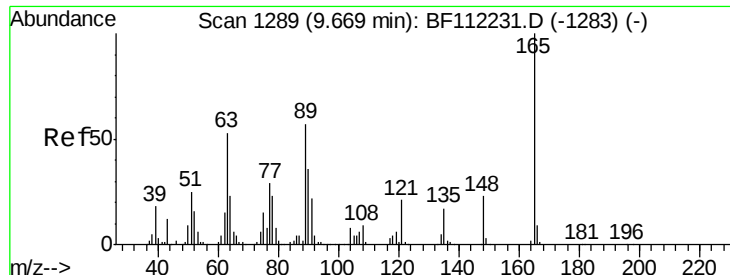
#50
Dimethylphthalate
Concen: 3.660 ng
RT: 9.58 min Scan# 1274
Delta R.T. -0.02 min
Lab File: BF112446.D
Acq: 7 Feb 2019 18:55

Tgt Ion:163 Resp: 74082
Ion Ratio Lower Upper
163 100
194 4.3 3.3 4.9
164 10.7 8.5 12.7



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

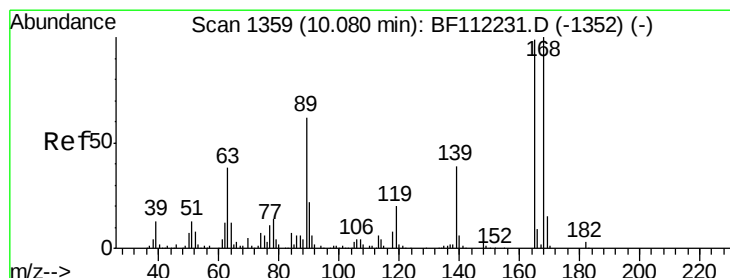
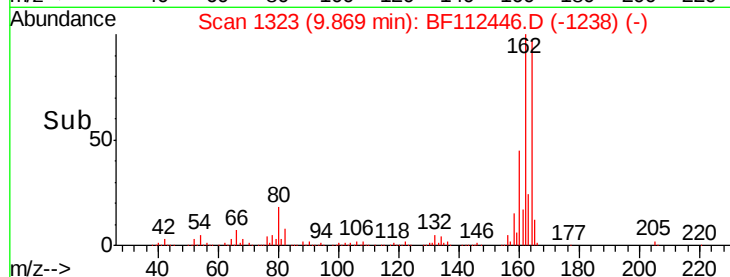
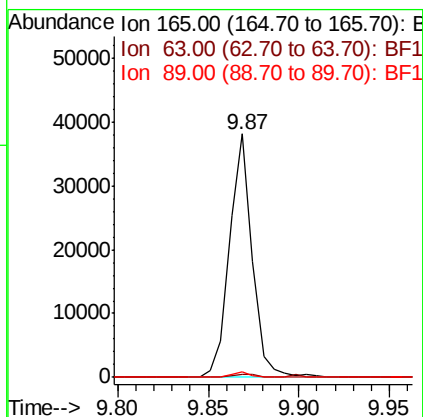
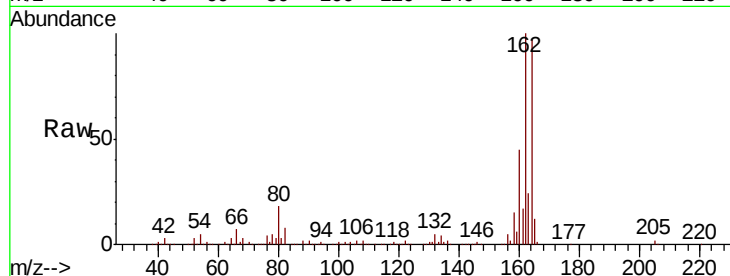




#51
 2,6-Dinitrotoluene
 Concen: 7.378 ng
 RT: 9.87 min Scan# 1323
 Delta R.T. 0.20 min
 Lab File: BF112446.D
 Acq: 7 Feb 2019 18:55

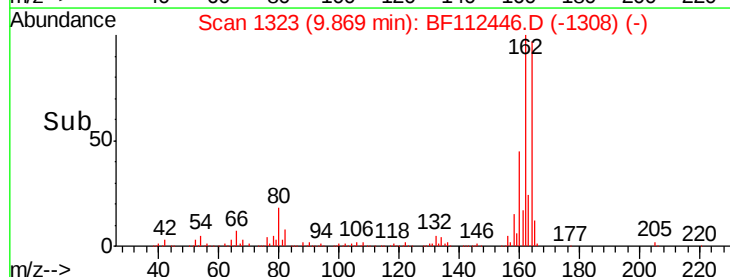
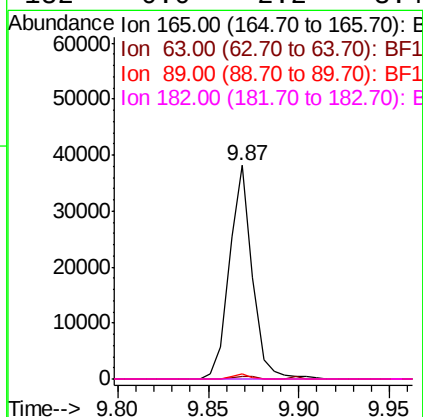
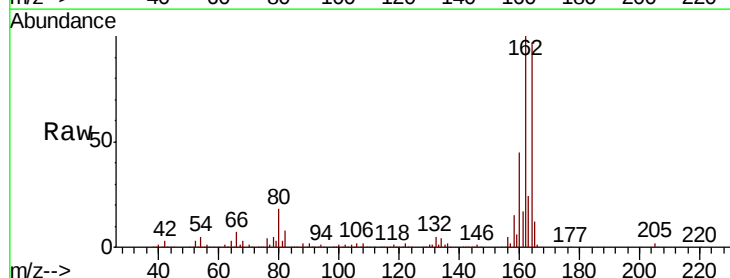
Instrument :
 BNA_F
 ClientSampleId :
 98-SB-101-2-4

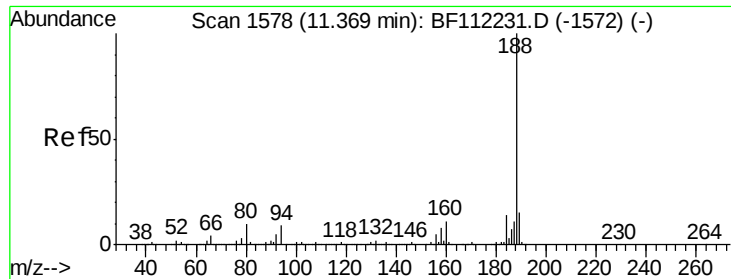
Tot Ion	Ratio	Lower	Upper
165	100		
63	1.1	33.8	50.8#
89	2.3	36.9	55.3#



#57
 2,4-Dinitrotoluene
 Concen: 5.795 ng
 RT: 9.87 min Scan# 1323
 Delta R.T. -0.21 min
 Lab File: BF112446.D
 Acq: 7 Feb 2019 18:55

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.1	27.9	41.9#
89	2.3	47.9	71.9#
182	0.0	2.2	3.4#

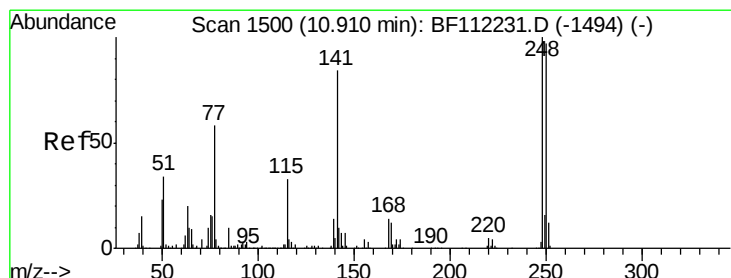
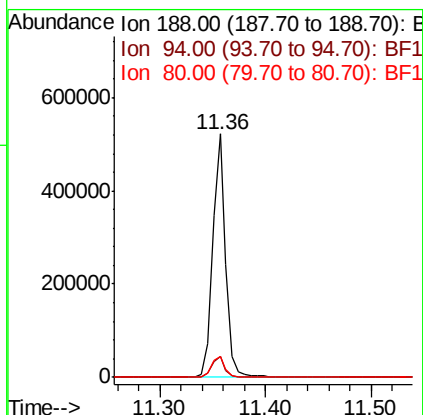
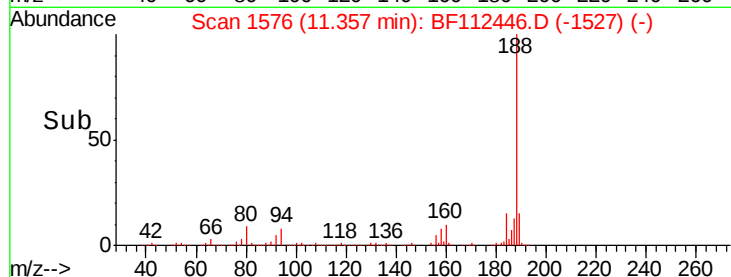
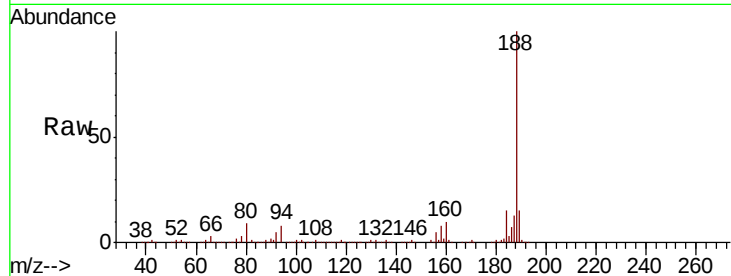




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.36 min Scan# 1576
Delta R.T. -0.01 min
Lab File: BF112446.D
Acq: 7 Feb 2019 18:55

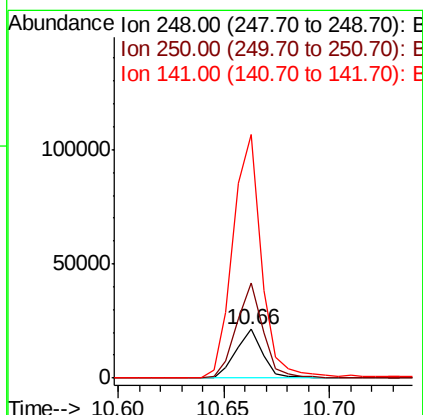
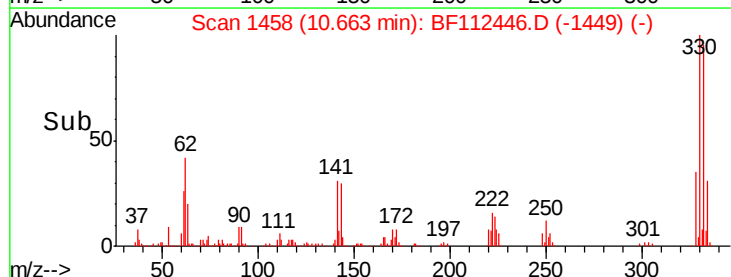
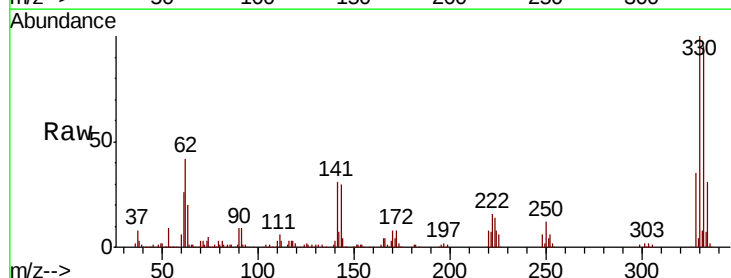
Instrument :
BNA_F
ClientSampleId :
98-SB-101-2-4

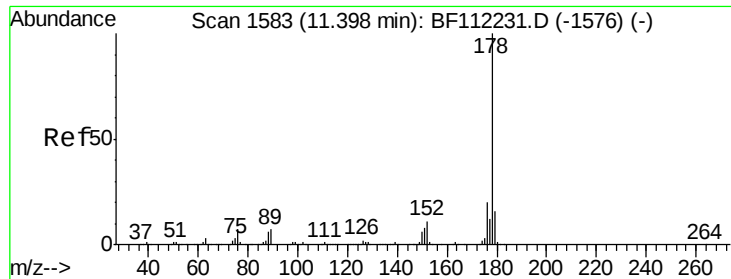
Tot Ion:188 Resp: 448910
Ion Ratio Lower Upper
188 100
94 8.4 8.2 12.2
80 8.6 8.9 13.3#



#67
4-Bromophenyl-phenylether
Concen: 3.533 ng
RT: 10.66 min Scan# 1458
Delta R.T. -0.25 min
Lab File: BF112446.D
Acq: 7 Feb 2019 18:55

Tgt Ion:248 Resp: 18653
Ion Ratio Lower Upper
248 100
250 196.5 79.7 119.5#
141 501.1 60.3 90.5#

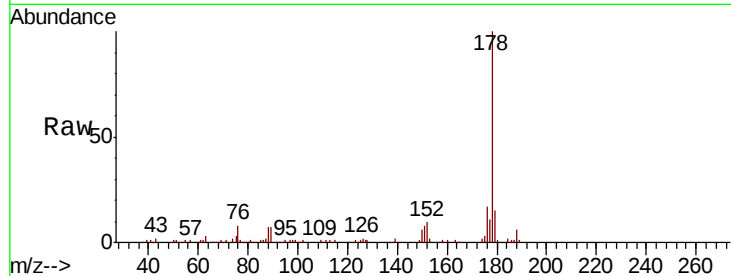




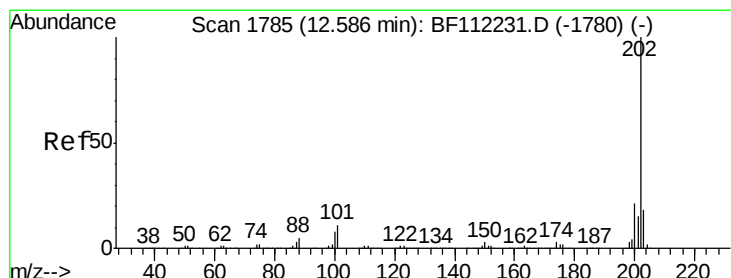
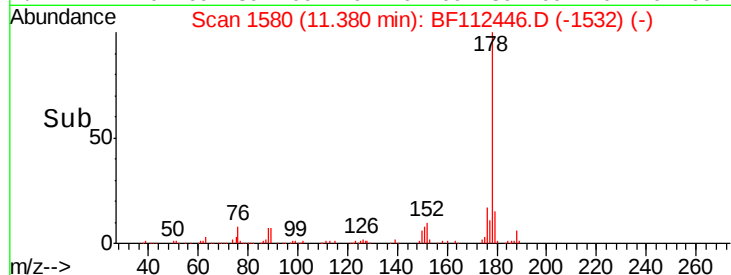
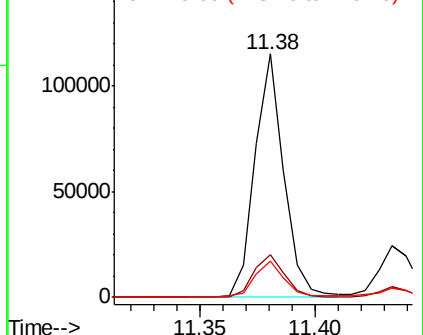
#71
Phenanthrene
Concen: 4.359 ng
RT: 11.38 min Scan# 1580
Delta R.T. -0.02 min
Lab File: BF112446.D
Acq: 7 Feb 2019 18:55

Instrument :
BNA_F
ClientSampleId :
98-SB-101-2-4

Tot Ion:178 Resp: 101720
Ion Ratio Lower Upper
178 100
176 17.4 16.3 24.5
179 15.1 13.0 19.4

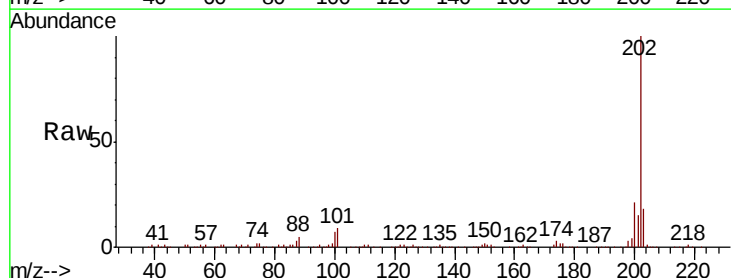


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

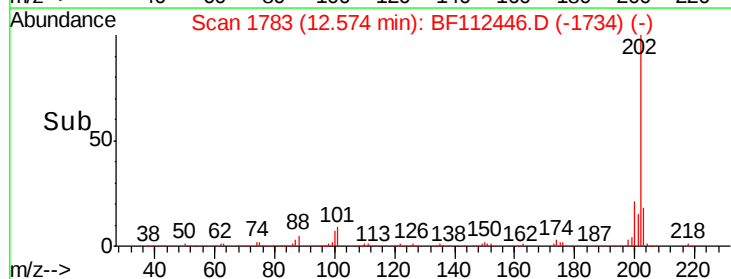
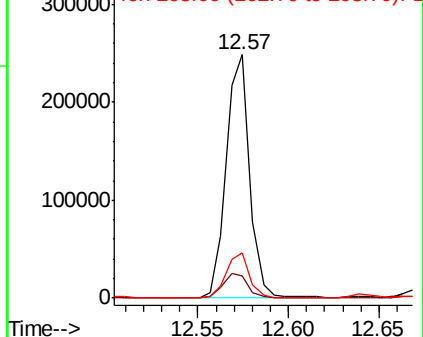


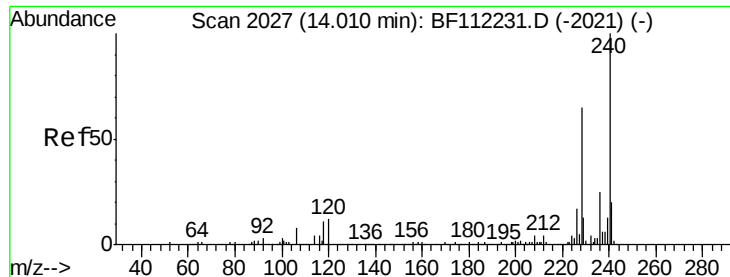
#75
Fluoranthene
Concen: 9.024 ng
RT: 12.57 min Scan# 1783
Delta R.T. -0.01 min
Lab File: BF112446.D
Acq: 7 Feb 2019 18:55

Tgt Ion:202 Resp: 225897
Ion Ratio Lower Upper
202 100
101 8.9 0.0 31.8
203 18.4 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: 14.00 min Scan# 2026

Delta R.T. -0.01 min

Lab File: BF112446.D

Acq: 7 Feb 2019 18:55

Instrument :

BNA_F

ClientSampleId :

98-SB-101-2-4

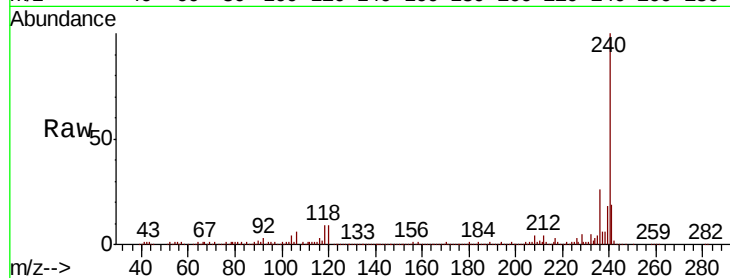
Tot Ion:240 Resp: 330219

Ion Ratio Lower Upper

240 100

120 9.5 9.0 13.6

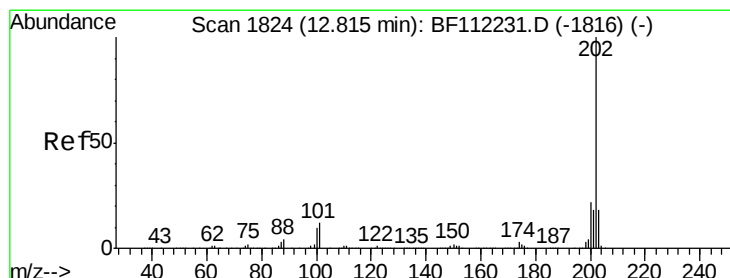
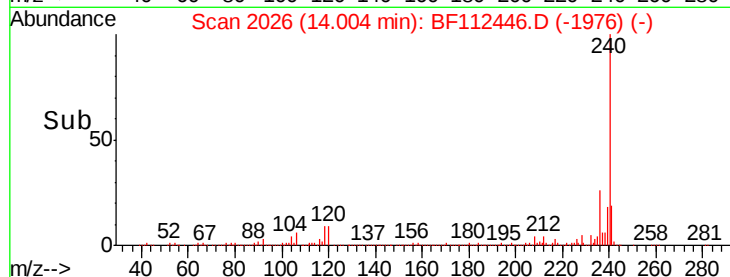
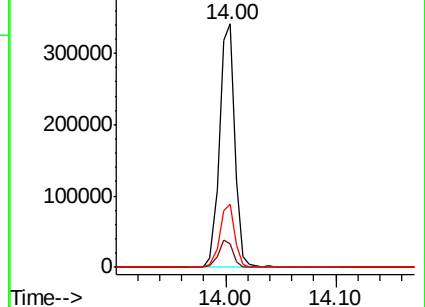
236 25.9 20.7 31.1



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: 8.770 ng

RT: 12.80 min Scan# 1821

Delta R.T. -0.02 min

Lab File: BF112446.D

Acq: 7 Feb 2019 18:55

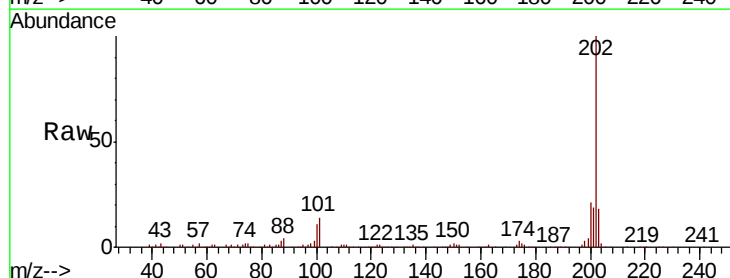
Tgt Ion:202 Resp: 200503

Ion Ratio Lower Upper

202 100

200 20.6 17.7 26.5

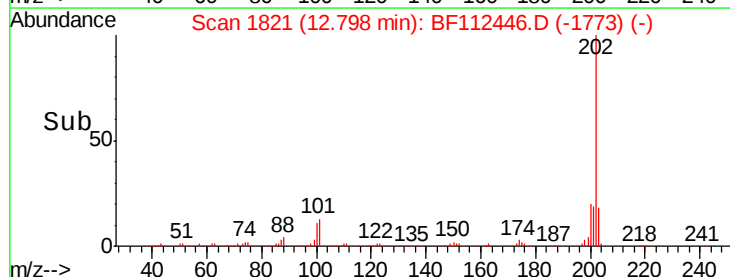
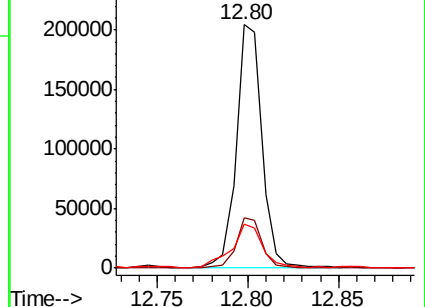
203 18.0 14.6 22.0

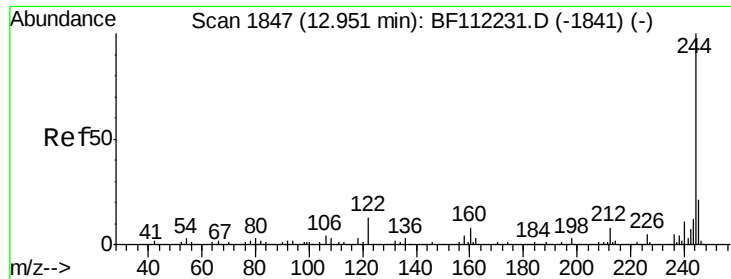


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 62.735 ng

RT: 12.94 min Scan# 1845

Delta R.T. -0.01 min

Lab File: BF112446.D

Acq: 7 Feb 2019 18:55

Instrument :

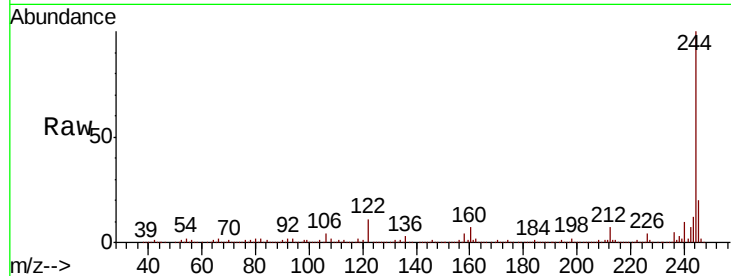
BNA_F

ClientSampleId :

98-SB-101-2-4

Tot Ion:244 Resp: 1099917

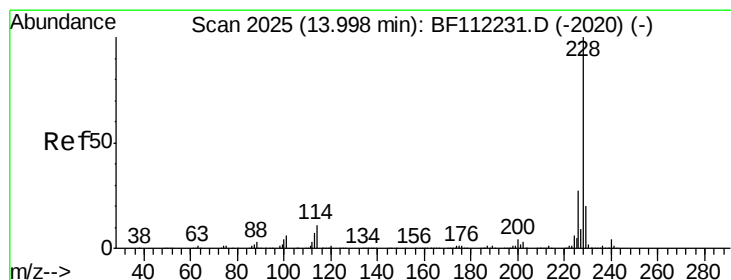
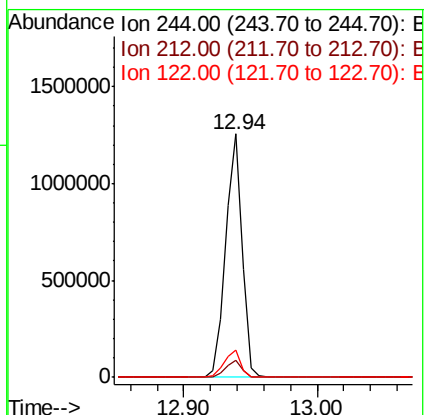
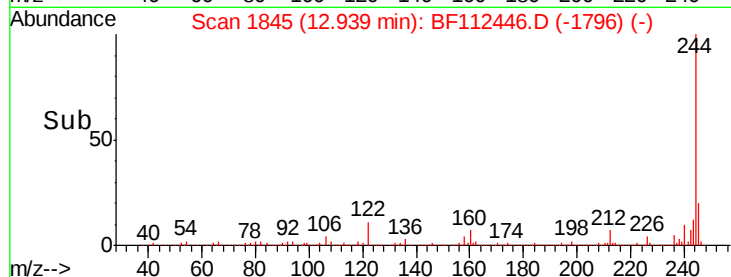
Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.9	8.9
122	11.2	9.8	14.6



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: 5.427 ng

RT: 13.99 min Scan# 2024

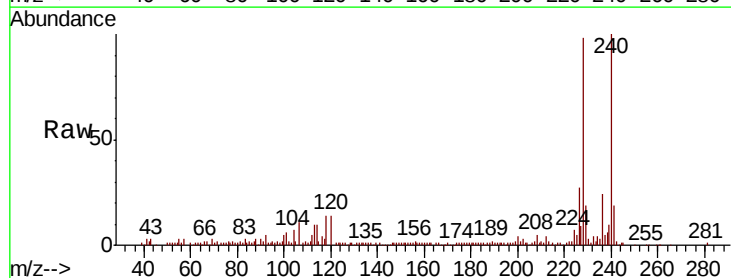
Delta R.T. -0.01 min

Lab File: BF112446.D

Acq: 7 Feb 2019 18:55

Tgt Ion:228 Resp: 105355

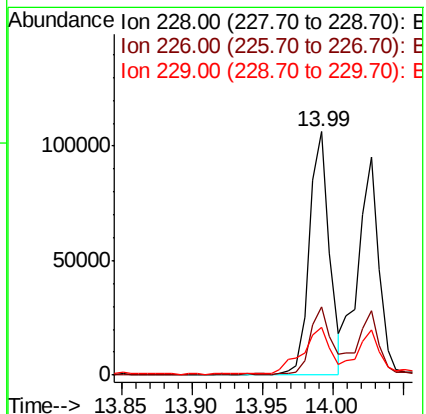
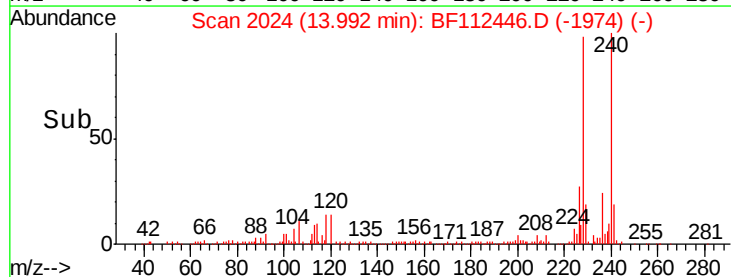
Ion	Ratio	Lower	Upper
228	100		
226	27.9	22.6	34.0
229	19.7	16.5	24.7

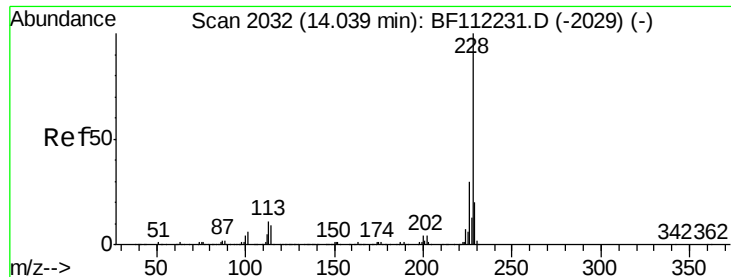


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 4.871 ng

RT: 14.03 min Scan# 2030

Delta R.T. -0.01 min

Lab File: BF112446.D

Acq: 7 Feb 2019 18:55

Instrument :

BNA_F

ClientSampleId :

98-SB-101-2-4

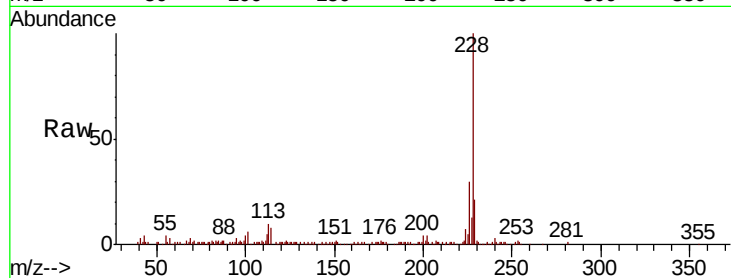
Tot Ion:228 Resp: 90257

Ion Ratio Lower Upper

228 100

226 29.8 25.0 37.6

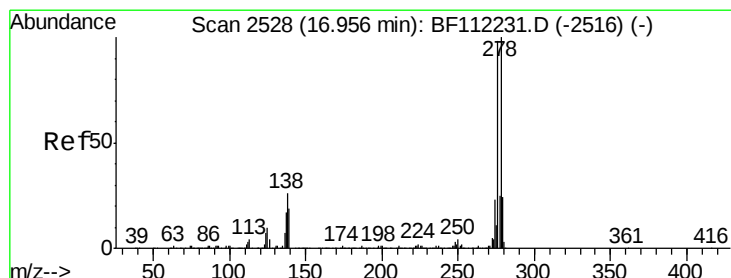
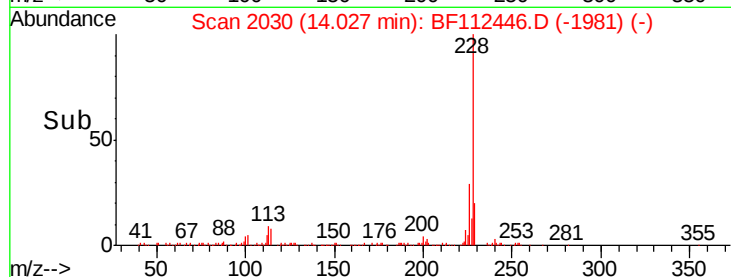
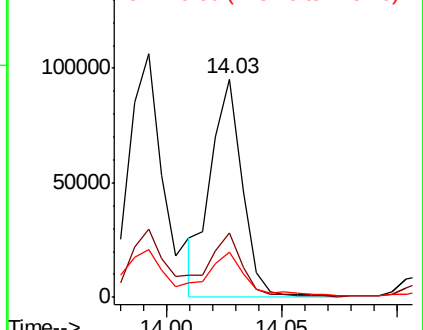
229 20.8 16.6 24.8



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



#86

Indeno(1,2,3-cd)pyrene

Concen: 2.996 ng

RT: 16.96 min Scan# 2528

Delta R.T. 0.00 min

Lab File: BF112446.D

Acq: 7 Feb 2019 18:55

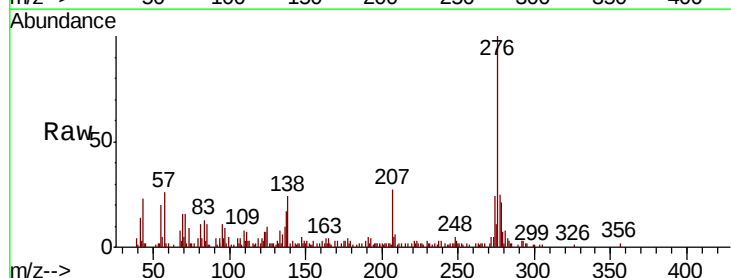
Tgt Ion:276 Resp: 43984

Ion Ratio Lower Upper

276 100

138 22.8 22.6 34.0

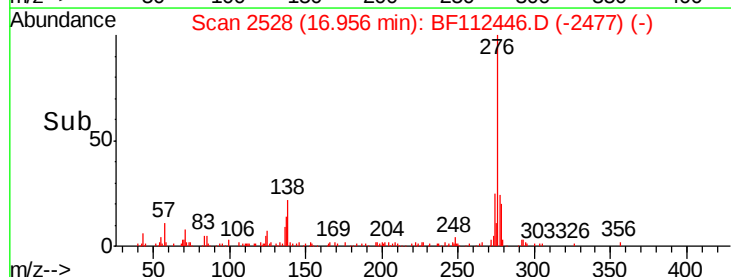
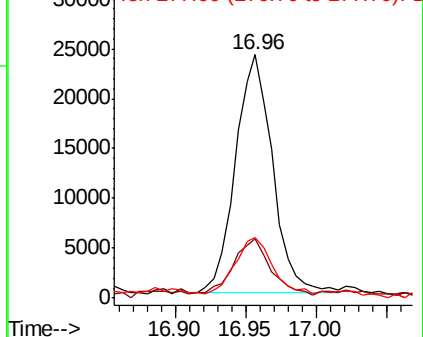
277 23.4 20.3 30.5

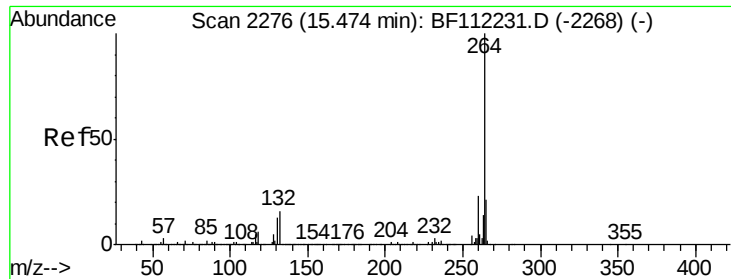


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

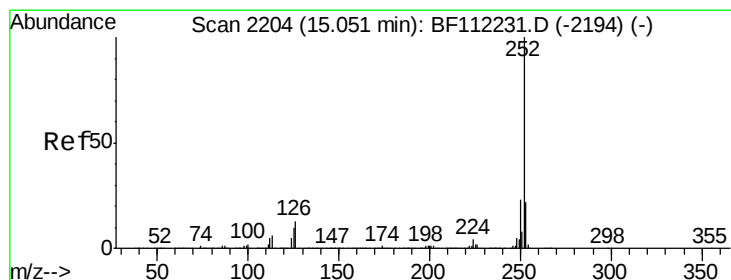
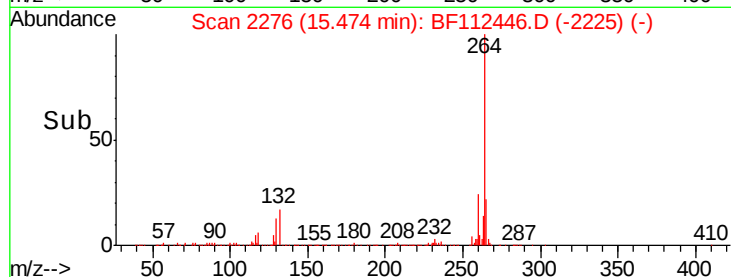
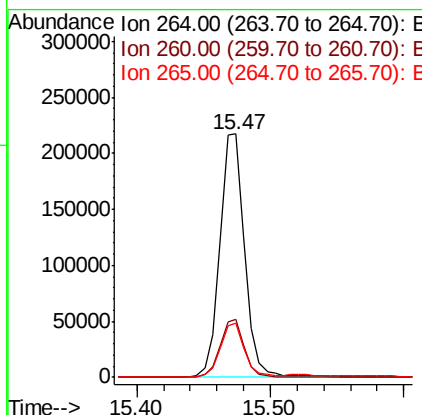
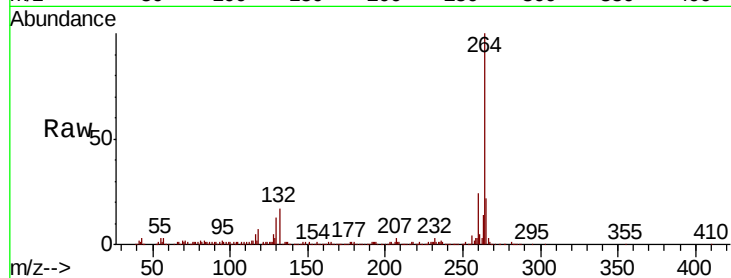




#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.47 min Scan# 2276
Delta R.T. 0.00 min
Lab File: BF112446.D
Acq: 7 Feb 2019 18:55

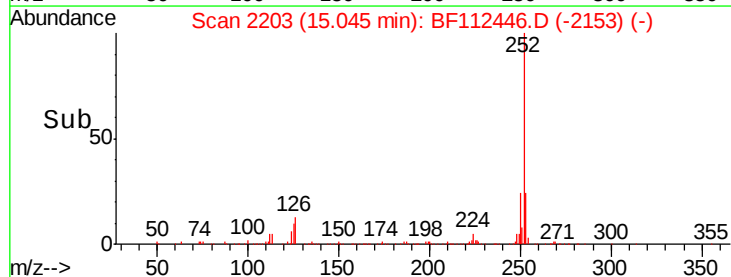
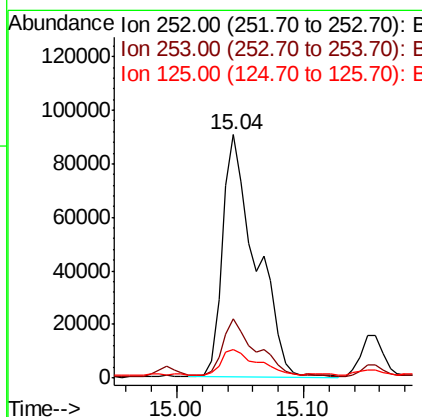
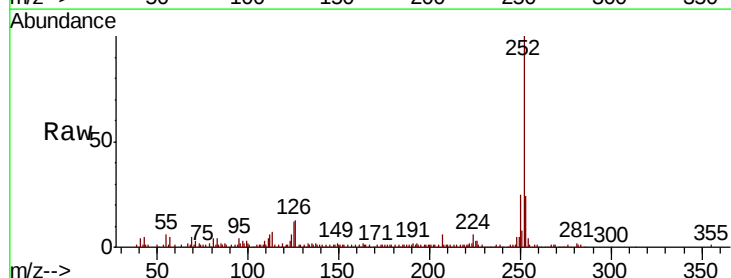
Instrument :
BNA_F
ClientSampleId :
98-SB-101-2-4

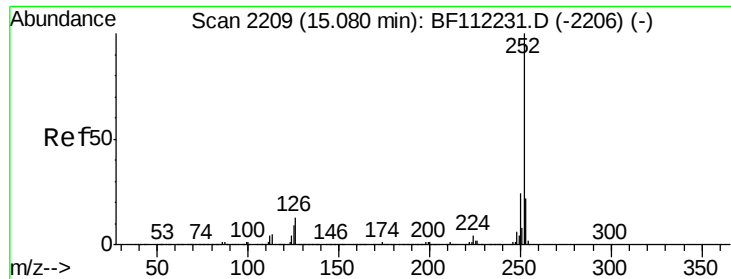
Tot Ion:264 Resp: 285341
Ion Ratio Lower Upper
264 100
260 23.8 18.2 27.2
265 22.4 17.0 25.4



#88
Benzo(b)fluoranthene
Concen: 9.667 ng
RT: 15.04 min Scan# 2203
Delta R.T. -0.01 min
Lab File: BF112446.D
Acq: 7 Feb 2019 18:55

Tgt Ion:252 Resp: 164961
Ion Ratio Lower Upper
252 100
253 24.2 18.0 27.0
125 11.8 8.7 13.1

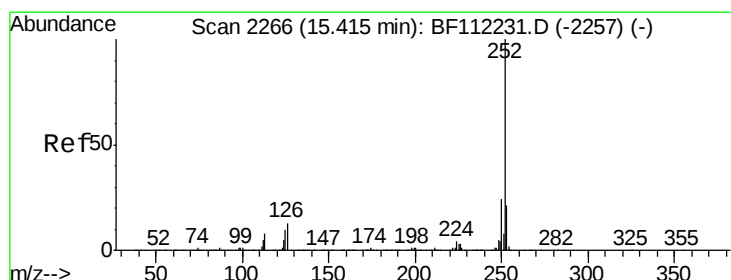
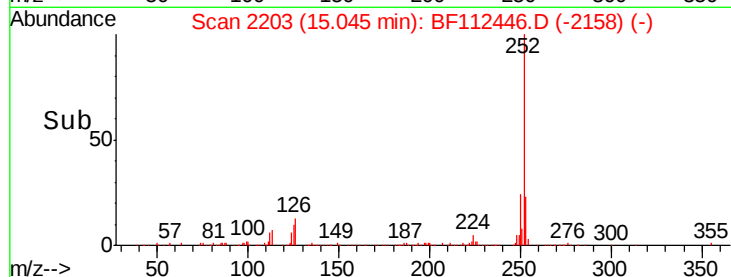
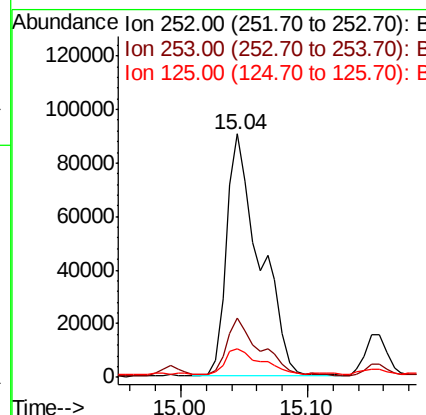
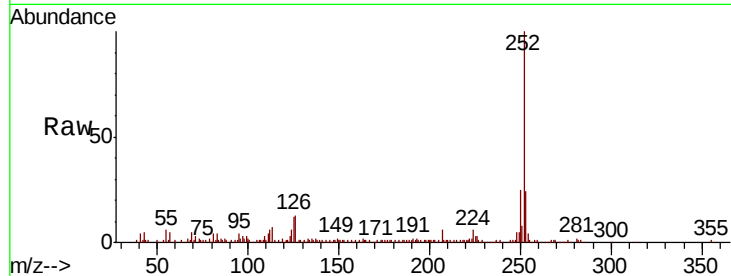




#89
Benzo(k)fluoranthene
Concen: 10.086 ng
RT: 15.04 min Scan# 2203
Delta R.T. -0.04 min
Lab File: BF112446.D
Acq: 7 Feb 2019 18:55

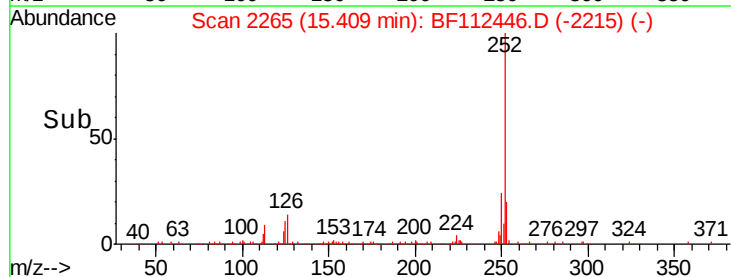
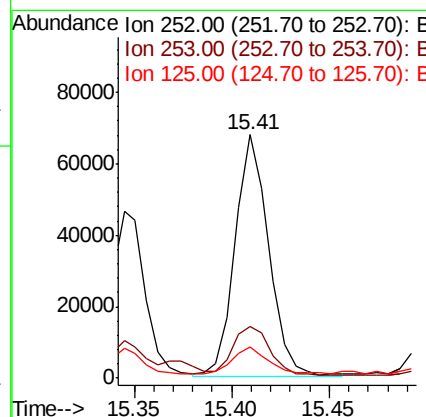
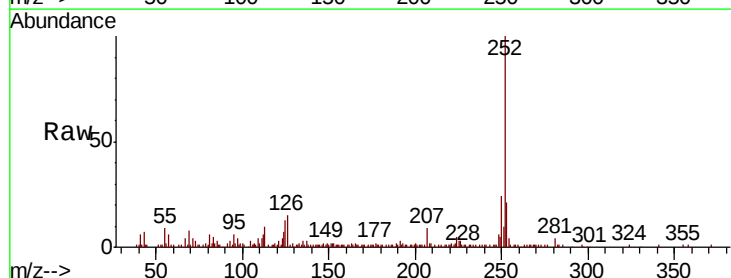
Instrument :
BNA_F
ClientSampleId :
98-SB-101-2-4

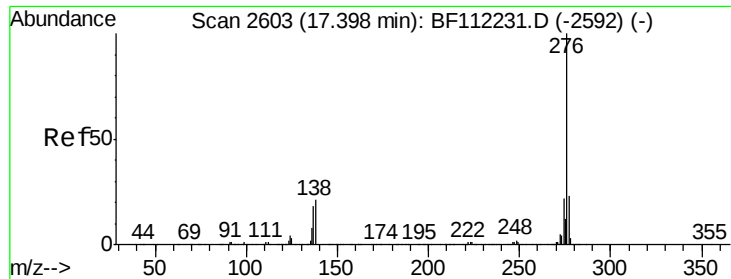
Tot Ion	Ratio	Lower	Upper
252	100		
253	24.2	18.0	27.0
125	11.8	9.1	13.7



#90
Benzo(a)pyrene
Concen: 5.318 ng
RT: 15.41 min Scan# 2265
Delta R.T. -0.01 min
Lab File: BF112446.D
Acq: 7 Feb 2019 18:55

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.5	26.3
125	12.5	9.0	13.4

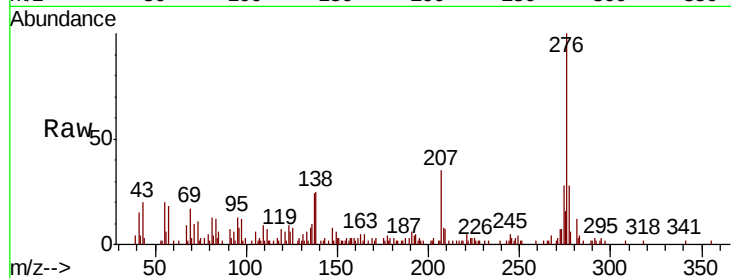




#92
 Benzo(a,h,i)perylene
 Concen: 3.686 ng
 RT: 17.40 min Scan# 2604
 Delta R.T. 0.01 min
 Lab File: BF112446.D
 Acq: 7 Feb 2019 18:55

Instrument :
 BNA_F
 ClientSampleId :
 98-SB-101-2-4

Tot Ion	Ratio	Lower	Upper
276	100		
277	27.7	19.4	29.0
138	24.6	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

