

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051319\
 Data File : BF114252.D
 Acq On : 14 May 2019 9:49
 Operator : JU/SJ
 Sample : K2764-11DL 5X
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: May 14 11:55:39 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 10 15:56:46 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	237621	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	923421	20.00	ng	0.00
39) Acenaphthene-d10	9.89	164	433617	20.00	ng	0.00
64) Phenanthrene-d10	11.38	188	844109	20.00	ng	0.01
76) Chrysene-d12	14.03	240	547735	20.00	ng	0.00
87) Perylene-d12	15.53	264	596977	20.00	ng	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.48	112	343909	23.29	ng	0.00
7) Phenol-d6	6.50	99	472027	27.03	ng	0.00
23) Nitrobenzene-d5	7.41	82	265357	16.13	ng	0.00
42) 2,4,6-Tribromophenol	10.68	330	97357	21.72	ng	0.00
45) 2-Fluorobiphenyl	9.21	172	445014	15.52	ng	0.00
79) Terphenyl-d14	12.96	244	407799	15.35	ng	0.00

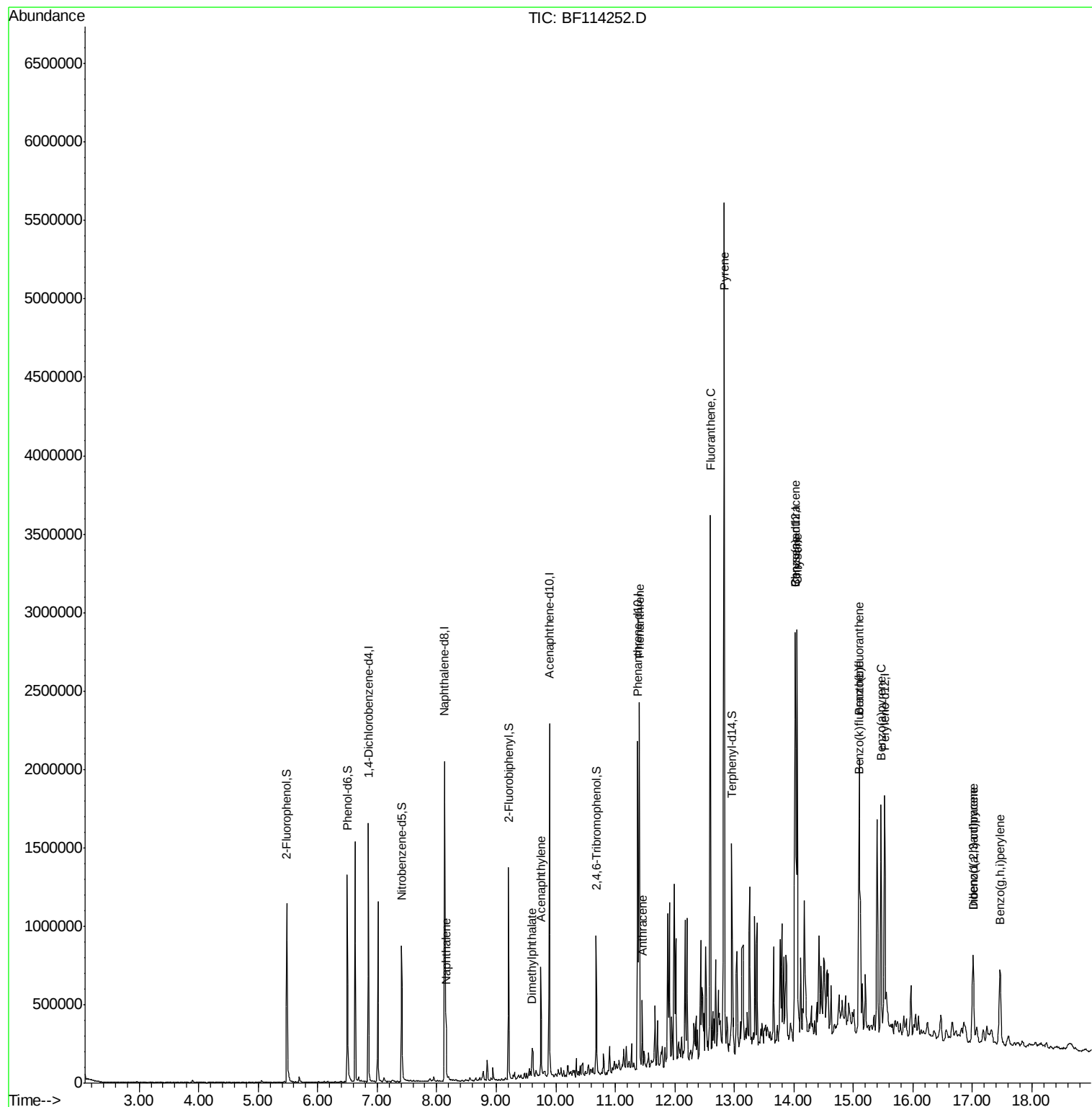
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	8.16	128	116736	2.706	ng	97
49) Acenaphthylene	9.75	152	265202	6.185	ng	98
50) Dimethylphthalate	9.60	163	72299	2.271	ng	98
71) Phenanthrene	11.40	178	889343	21.656	ng	97
72) Anthracene	11.45	178	154623	3.749	ng	98
75) Fluoranthene	12.60	202	1422621	32.169	ng	99
78) Pyrene	12.83	202	2364741	53.668	ng	99
81) Benzo(a)anthracene	14.02	228	832379m	23.495	ng	
83) Chrysene	14.06	228	958899	27.611	ng	98
86) Indeno(1,2,3-cd)pyrene	17.01	276	378914	12.345	ng	96
88) Benzo(b)fluoranthene	15.10	252	931446m	24.354	ng	
89) Benzo(k)fluoranthene	15.11	252	315249m	8.973	ng	
90) Benzo(a)pyrene	15.46	252	590363	17.539	ng	99
91) Dibenzo(a,h)anthracene	17.02	278	104283m	3.728	ng	
92) Benzo(a,h,i)perylene	17.46	276	410645	14.650	ng	97

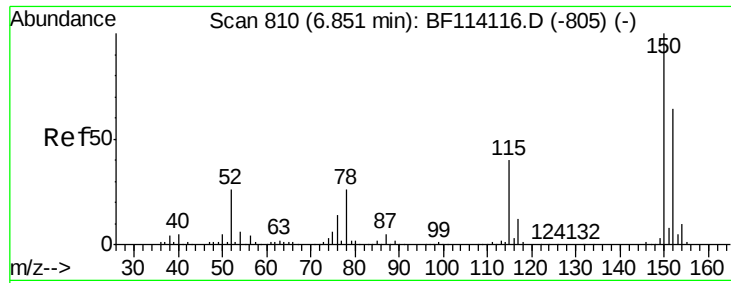
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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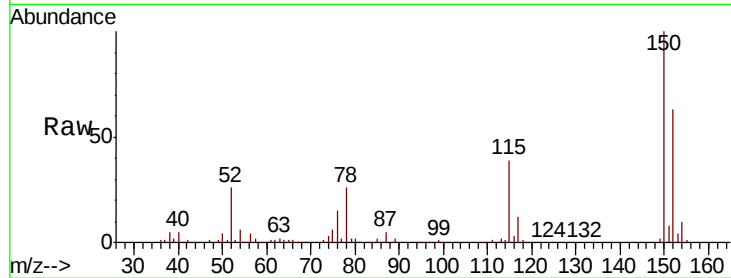




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.85 min Scan# 810
 Delta R.T. -0.00 min
 Lab File: BF114252.D
 Acq: 14 May 2019 9:49

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.0	124.3	186.5
115	62.2	49.1	73.7

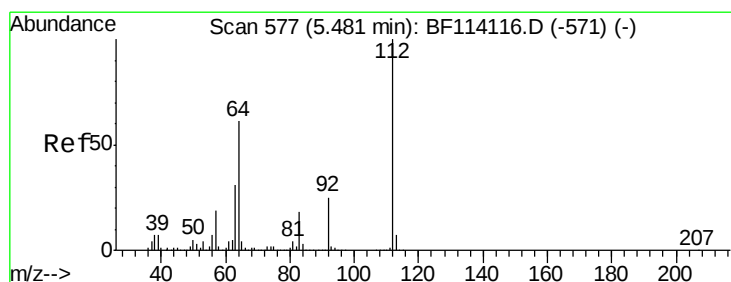
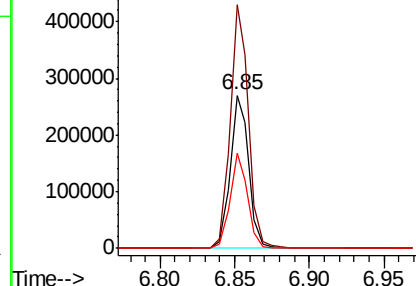
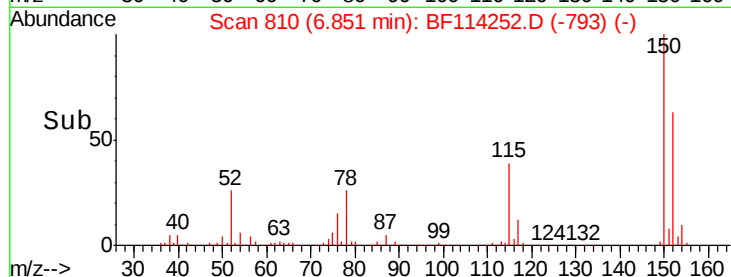


Abundance

Ion 152.00 (151.70 to 152.70): E

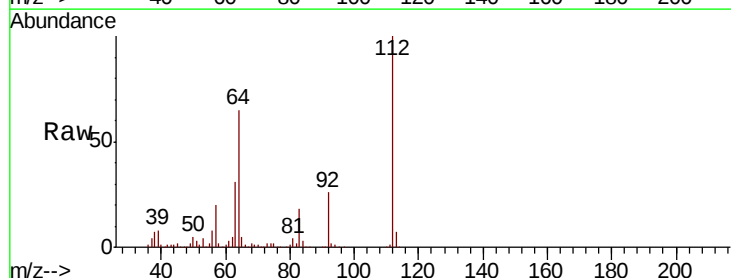
Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5
 2-Fluorophenol
 Concen: 23.291 ng
 RT: 5.48 min Scan# 577
 Delta R.T. 0.00 min
 Lab File: BF114252.D
 Acq: 14 May 2019 9:49

Tgt Ion	Ratio	Lower	Upper
112	100		
64	65.4	49.0	73.6
63	30.9	24.6	37.0

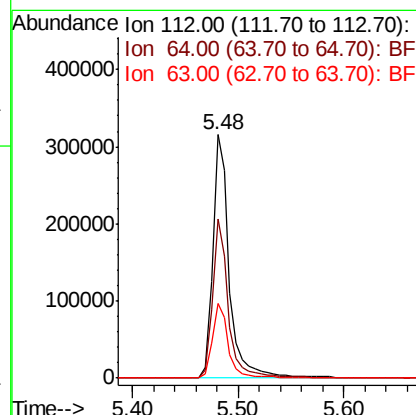
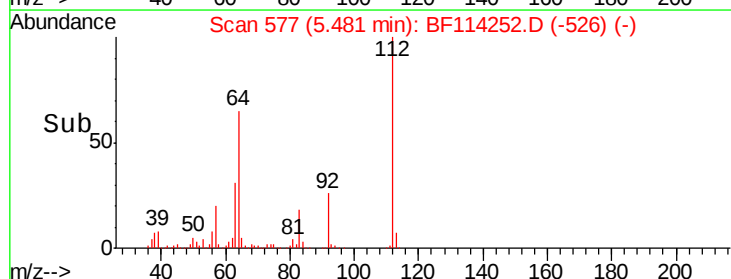


Abundance

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: 27.029 ng

RT: 6.50 min Scan# 750

Delta R.T. 0.01 min

Lab File: BF114252.D

Acq: 14 May 2019 9:49

Instrument :

BNA_F

ClientSampleId :

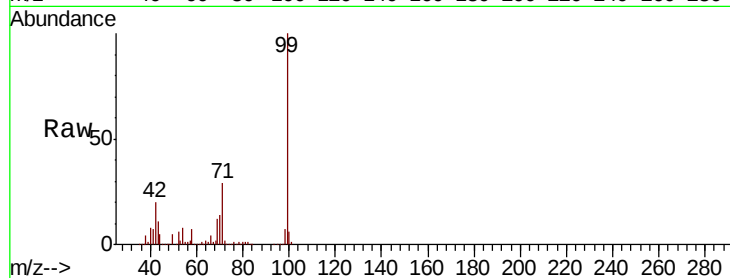
Tot Ion: 99 Resp: 472027

Ion Ratio Lower Upper

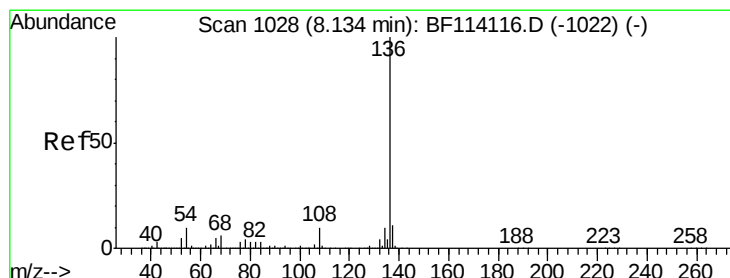
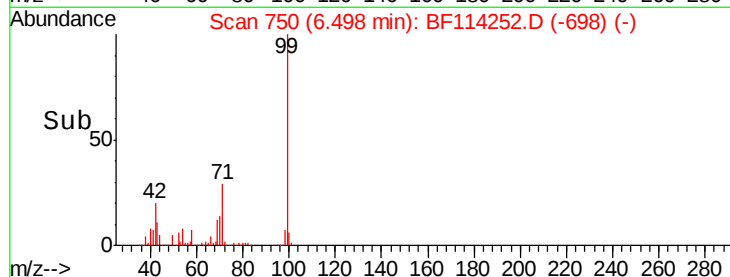
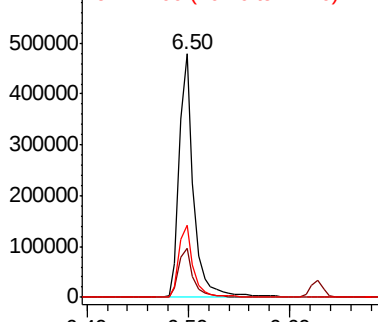
99 100

42 20.2 17.9 26.9

71 29.5 26.2 39.2



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: 8.13 min Scan# 1028

Delta R.T. -0.00 min

Lab File: BF114252.D

Acq: 14 May 2019 9:49

Tgt Ion: 136 Resp: 923421

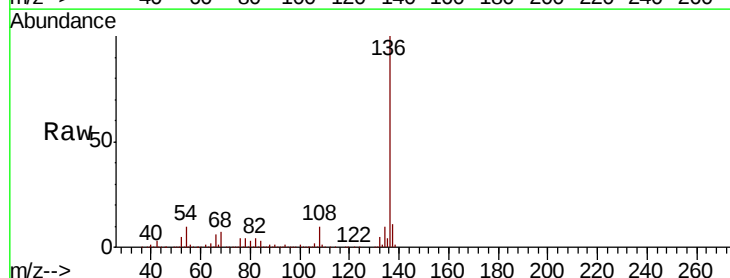
Ion Ratio Lower Upper

136 100

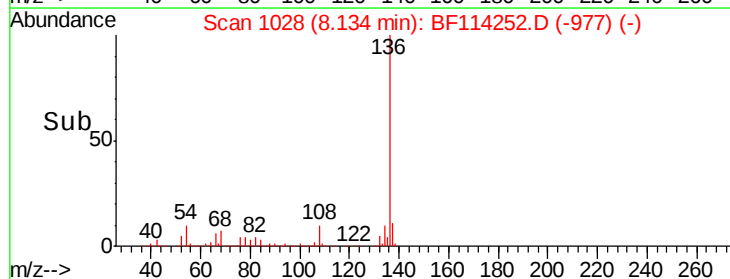
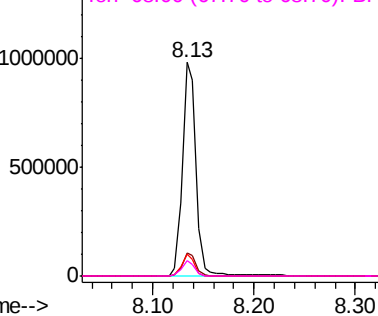
137 11.0 8.8 13.2

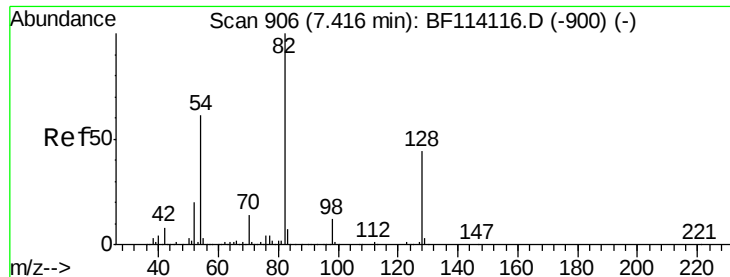
54 10.4 7.8 11.8

68 7.1 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

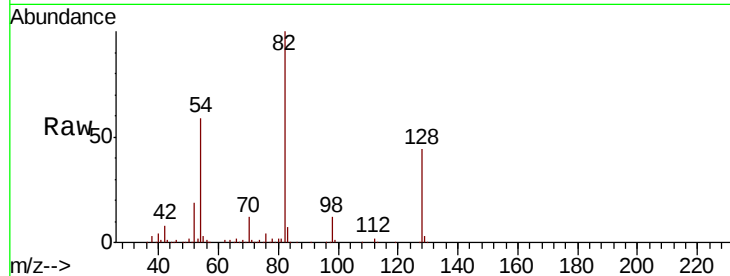




#23
Nitrobenzene-d5
Concen: 16.127 ng
RT: 7.41 min Scan# 905
Delta R.T. -0.01 min
Lab File: BF114252.D
Acq: 14 May 2019 9:49

Instrument :
BNA_F
ClientSampleId :

Tot Ion	82	Resp	265357
Ion Ratio	100	Lower	Upper
128	44.5	35.5	53.3
54	58.8	48.5	72.7

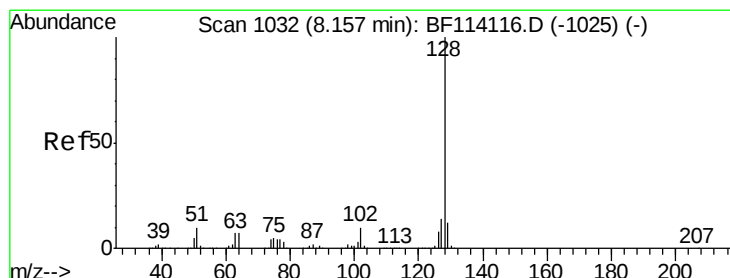
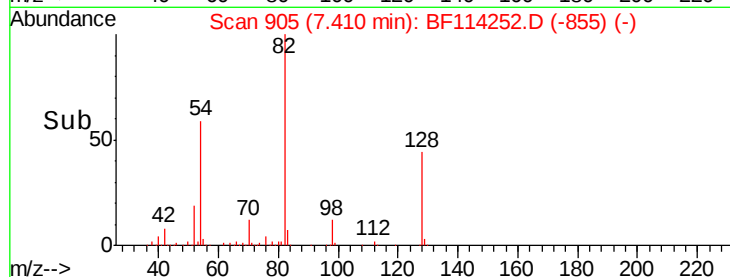
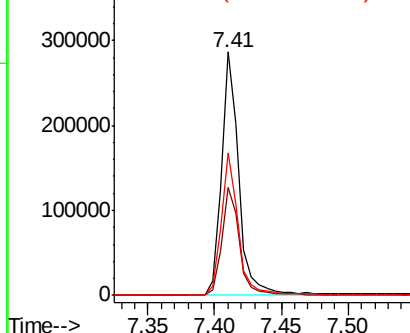


Abundance

Ion 82.00 (81.70 to 82.70): BF1

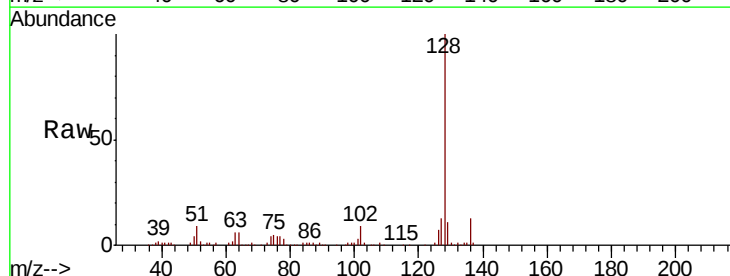
Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1



#31
Naphthalene
Concen: 2.706 ng
RT: 8.16 min Scan# 1032
Delta R.T. -0.00 min
Lab File: BF114252.D
Acq: 14 May 2019 9:49

Tgt Ion	128	Resp	116736
Ion Ratio	100	Lower	Upper
129	10.7	9.6	14.4
127	13.0	11.3	16.9

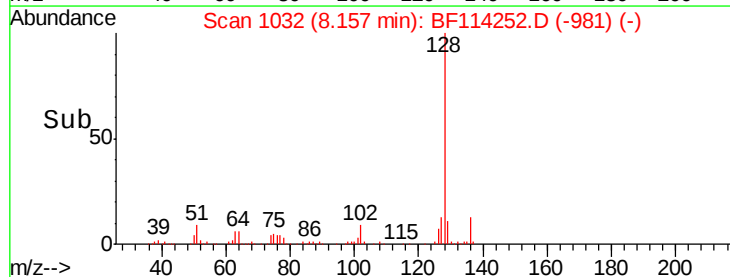
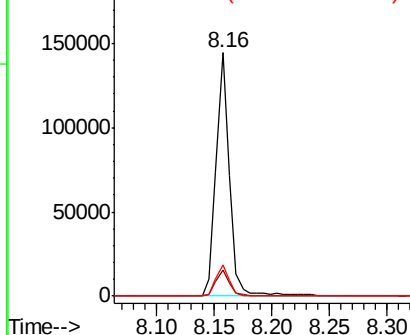


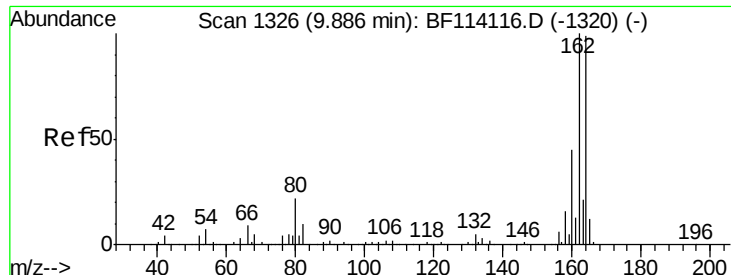
Abundance

Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

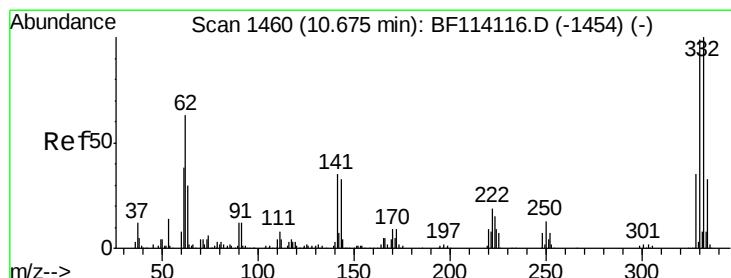
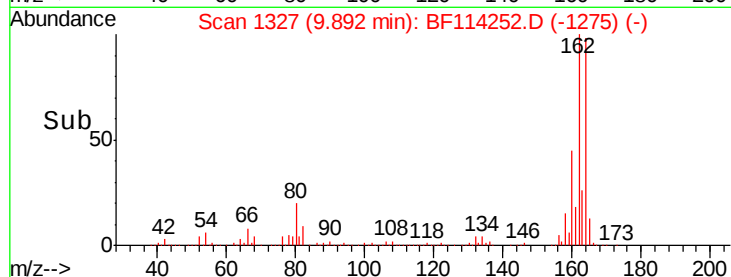
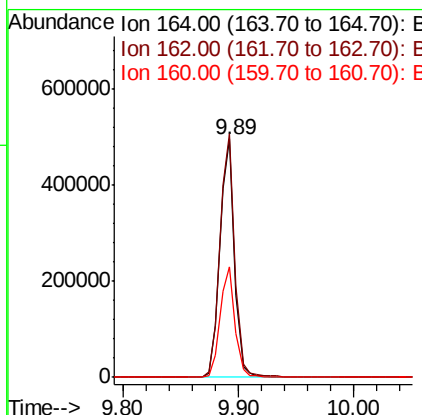
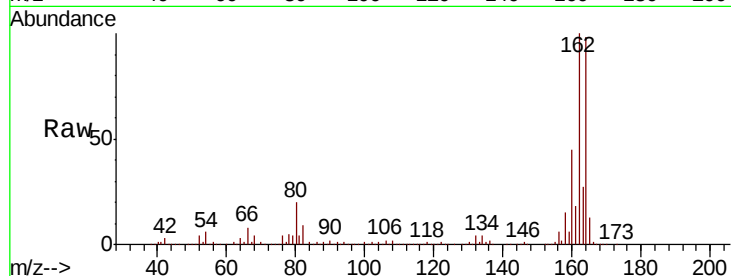




#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.89 min Scan# 1327
 Delta R.T. 0.01 min
 Lab File: BF114252.D
 Acq: 14 May 2019 9:49

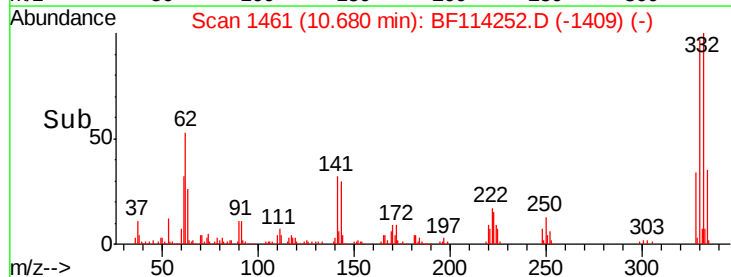
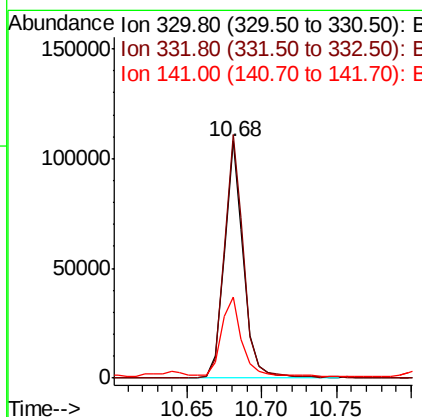
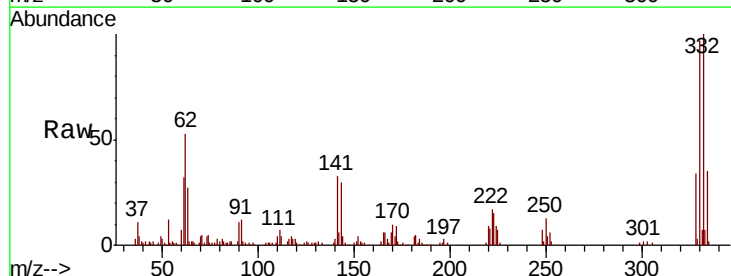
Instrument :
 BNA_F
 ClientSampleId :

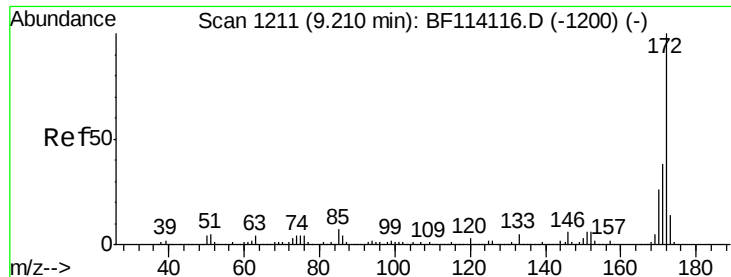
Tot Ion	Ratio	Lower	Upper
164	100		
162	102.2	80.6	120.8
160	46.2	36.5	54.7



#42
 2,4,6-Tribromophenol
 Concen: 21.718 ng
 RT: 10.68 min Scan# 1461
 Delta R.T. 0.01 min
 Lab File: BF114252.D
 Acq: 14 May 2019 9:49

Tgt Ion	Ratio	Lower	Upper
330	100		
332	104.1	81.4	122.2
141	37.7	26.6	40.0

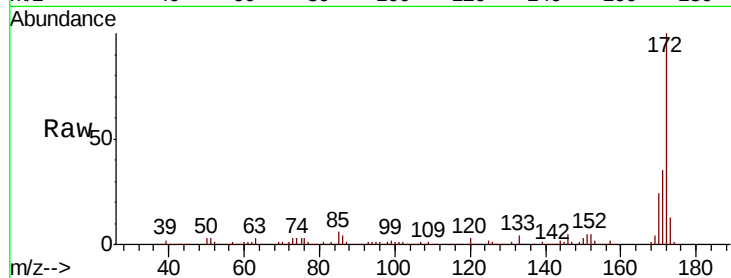




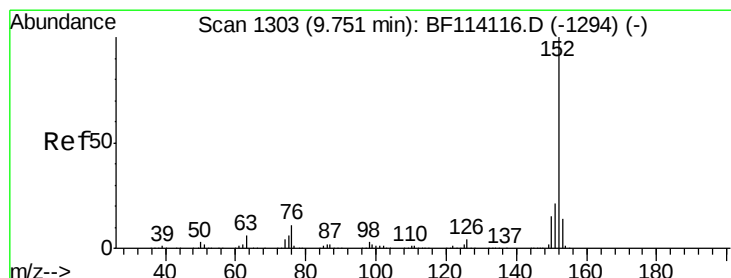
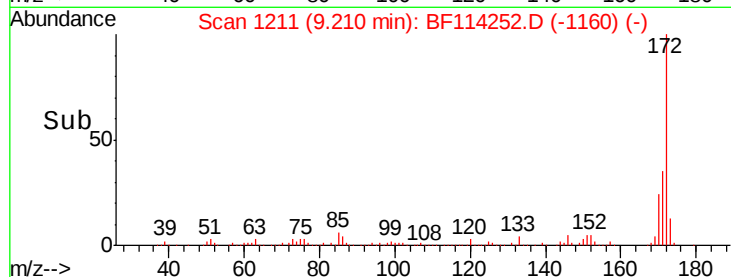
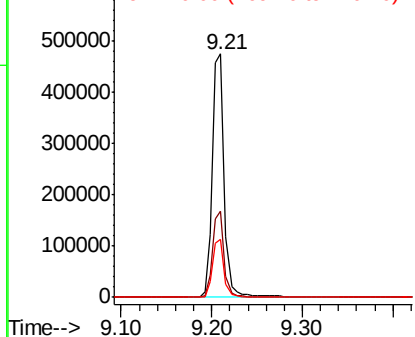
#45
2-Fluorobiphenyl
Concen: 15.524 ng
RT: 9.21 min Scan# 1211
Delta R.T. -0.00 min
Lab File: BF114252.D
Acq: 14 May 2019 9:49

Instrument :
BNA_F
ClientSampleId :

Tot Ion:172 Resp: 445014
Ion Ratio Lower Upper
172 100
171 35.3 30.7 46.1
170 23.6 20.5 30.7

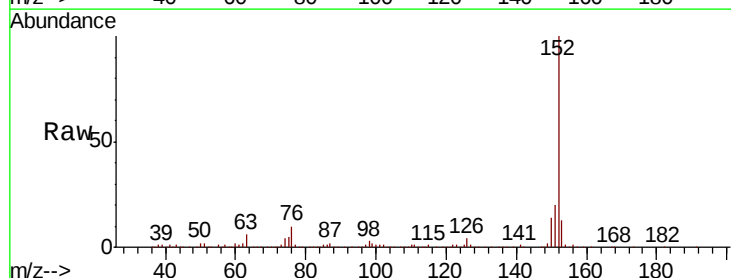


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

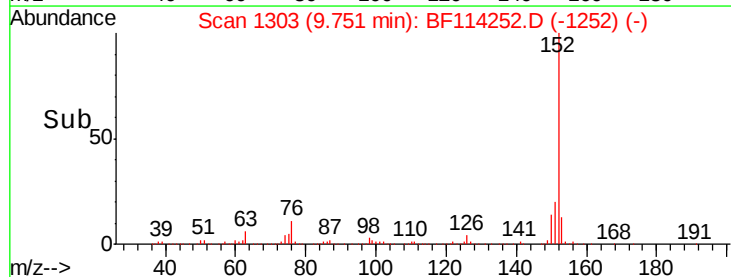
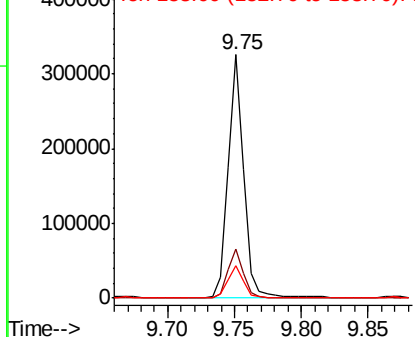


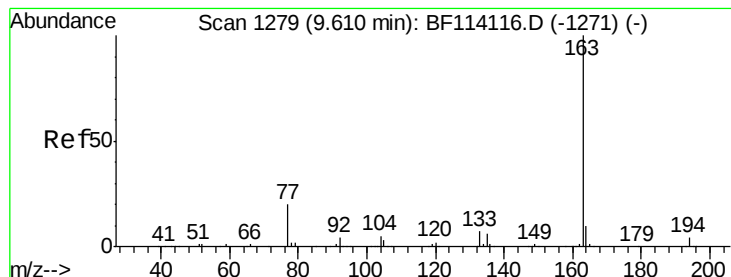
#49
Acenaphthylene
Concen: 6.185 ng
RT: 9.75 min Scan# 1303
Delta R.T. -0.00 min
Lab File: BF114252.D
Acq: 14 May 2019 9:49

Tgt Ion:152 Resp: 265202
Ion Ratio Lower Upper
152 100
151 20.2 16.8 25.2
153 13.4 11.4 17.2



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E





#50

Dimethylphthalate

Concen: 2.271 ng

RT: 9.60 min Scan# 1277

Delta R.T. -0.01 min

Lab File: BF114252.D

Acq: 14 May 2019 9:49

Instrument :

BNA_F

ClientSampleId :

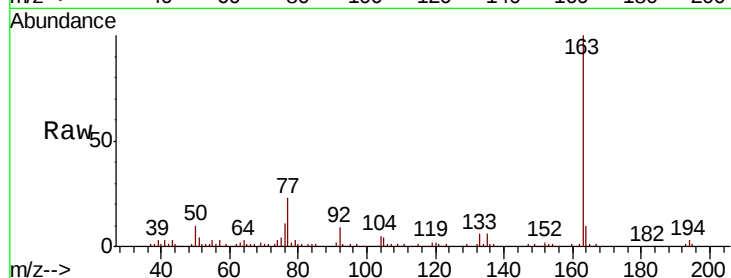
Tot Ion:163 Resp: 72299

Ion Ratio Lower Upper

163 100

194 3.5 3.4 5.0

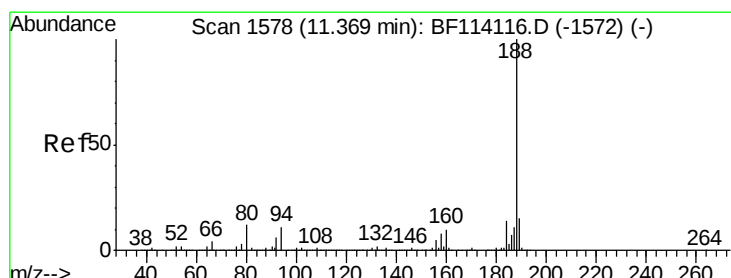
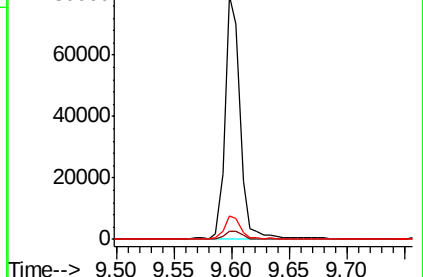
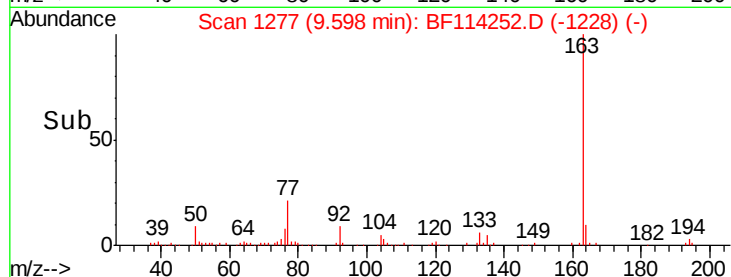
164 9.6 8.2 12.2



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.38 min Scan# 1580

Delta R.T. 0.01 min

Lab File: BF114252.D

Acq: 14 May 2019 9:49

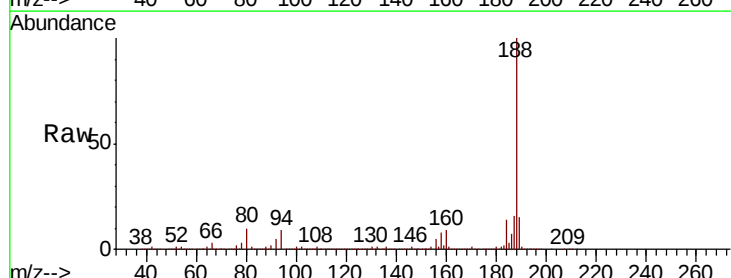
Tgt Ion:188 Resp: 844109

Ion Ratio Lower Upper

188 100

94 9.4 8.4 12.6

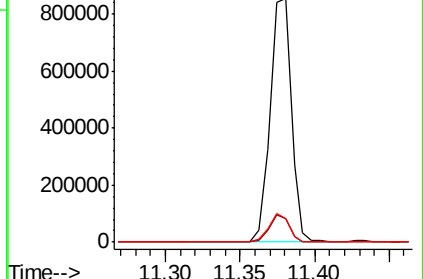
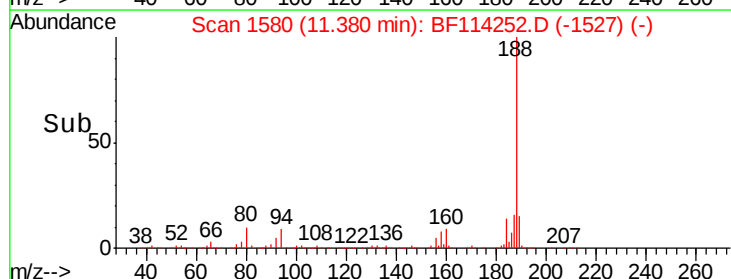
80 9.7 9.2 13.8

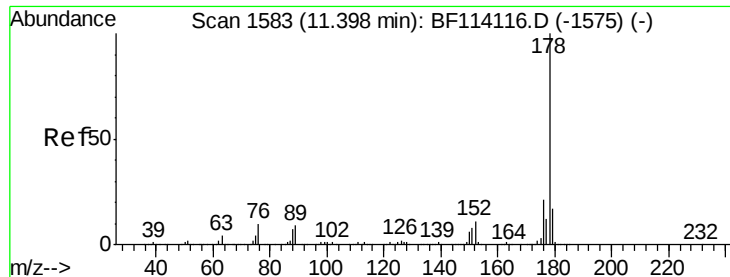


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





#71

Phenanthrene

Concen: 21.656 ng

RT: 11.40 min Scan# 1584

Delta R.T. 0.01 min

Lab File: BF114252.D

Acq: 14 May 2019 9:49

Instrument :

BNA_F

ClientSampleId :

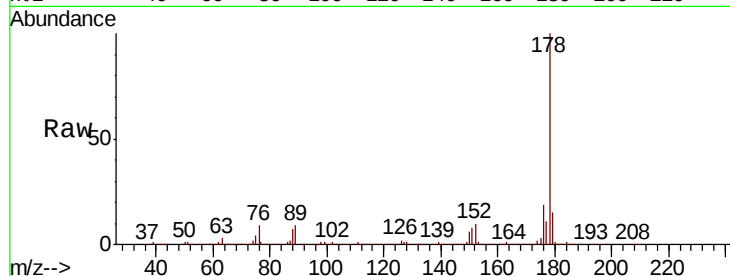
Tot Ion:178 Resp: 889343

Ion Ratio Lower Upper

178 100

176 19.0 16.4 24.6

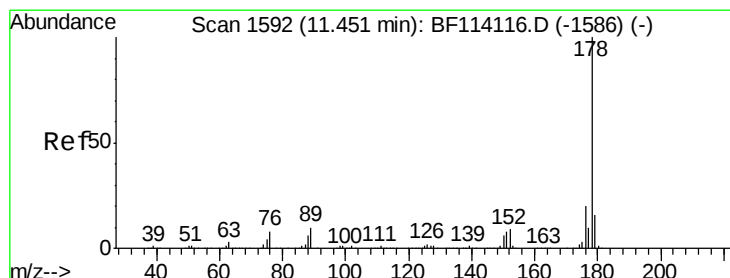
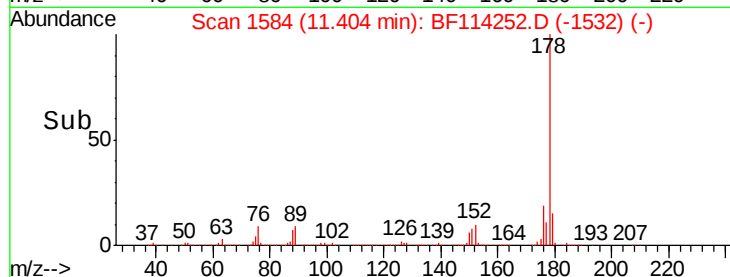
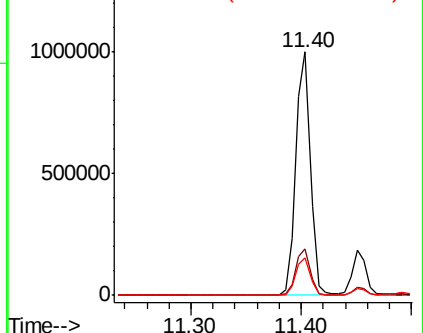
179 15.2 13.2 19.8



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



#72

Anthracene

Concen: 3.749 ng

RT: 11.45 min Scan# 1592

Delta R.T. -0.00 min

Lab File: BF114252.D

Acq: 14 May 2019 9:49

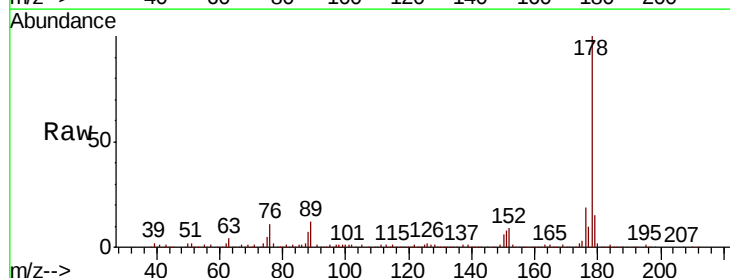
Tgt Ion:178 Resp: 154623

Ion Ratio Lower Upper

178 100

176 18.7 15.8 23.8

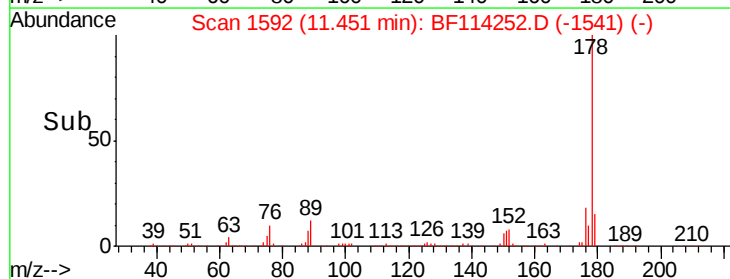
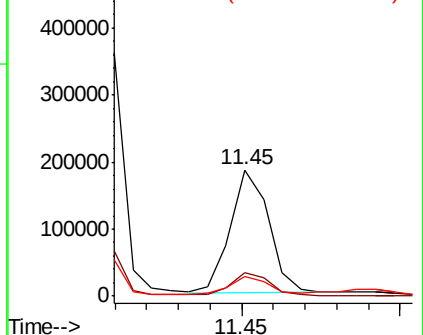
179 15.3 13.0 19.4

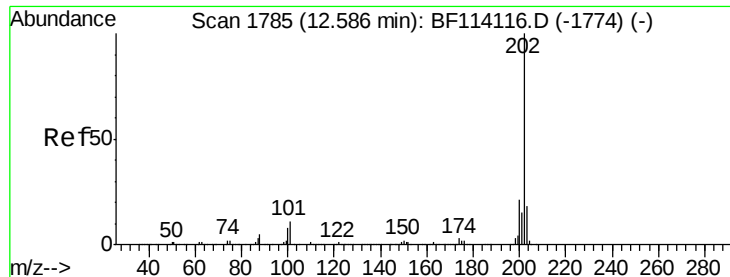


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 32.169 ng

RT: 12.60 min Scan# 1787

Delta R.T. 0.01 min

Lab File: BF114252.D

Acq: 14 May 2019 9:49

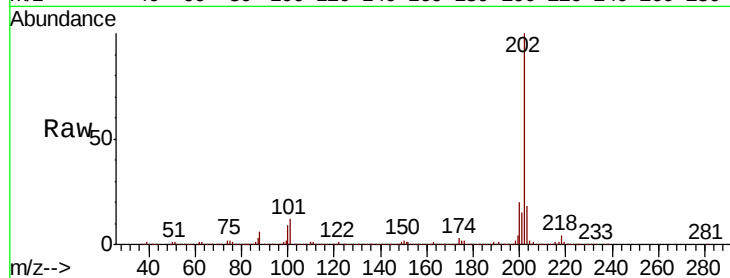
Instrument :

BNA_F

ClientSampleId :

Tot Ion:202 Resp: 1422621

Ion	Ratio	Lower	Upper
202	100		
101	11.8	0.0	31.0
203	18.1	0.0	38.4

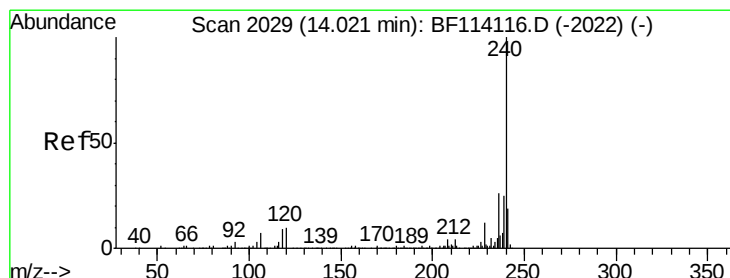
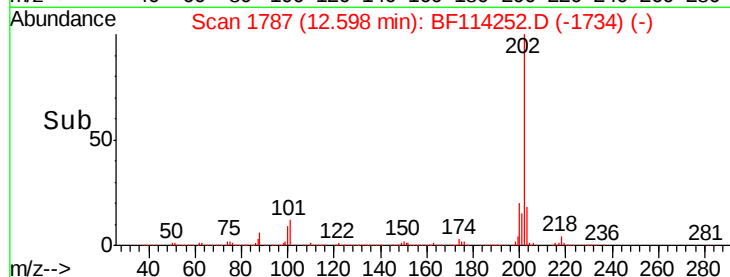
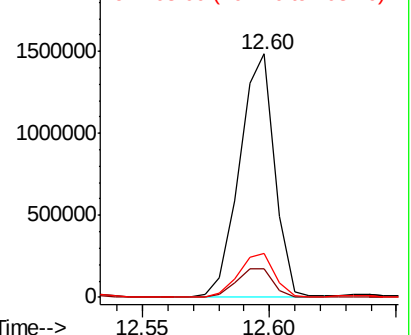


Abundance

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: 14.03 min Scan# 2030

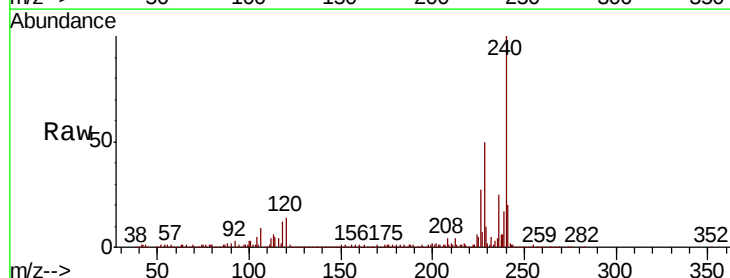
Delta R.T. 0.01 min

Lab File: BF114252.D

Acq: 14 May 2019 9:49

Tgt Ion:240 Resp: 547735

Ion	Ratio	Lower	Upper
240	100		
120	13.5	8.3	12.5#
236	25.0	20.8	31.2

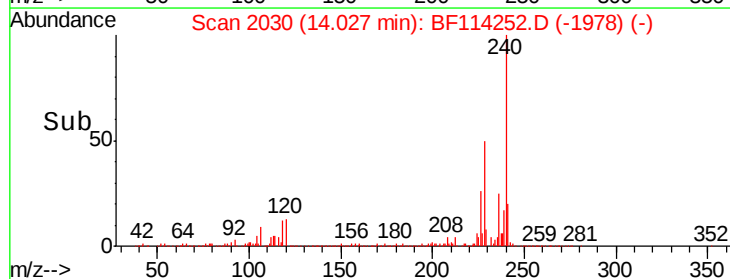
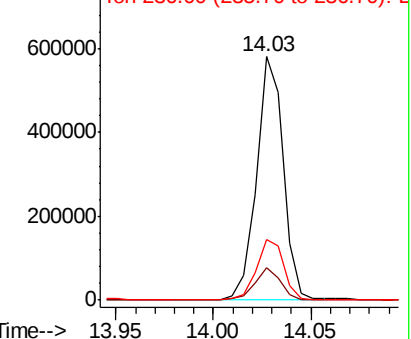


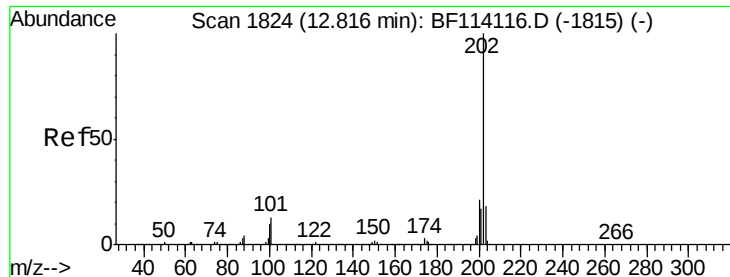
Abundance

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

Pvrene

Concen: 53.668 ng

RT: 12.83 min Scan# 1826

Delta R.T. 0.01 min

Lab File: BF114252.D

Acq: 14 May 2019 9:49

Instrument :

BNA_F

ClientSampleId :

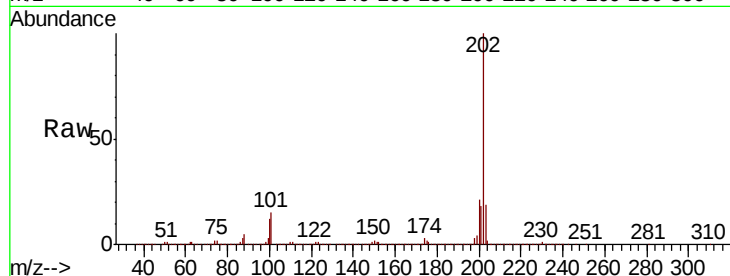
Tot Ion:202 Resp: 2364741

Ion Ratio Lower Upper

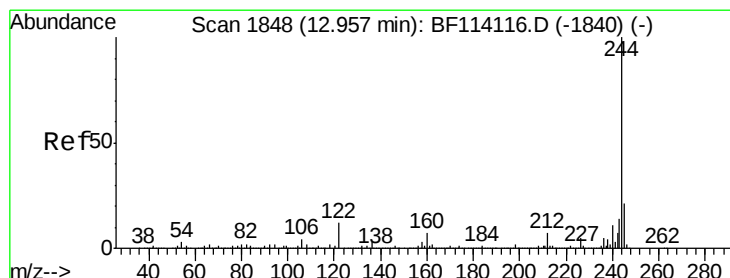
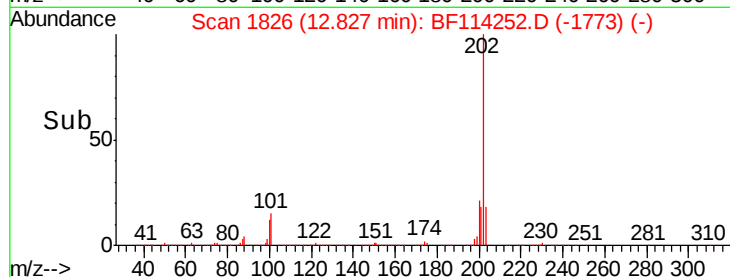
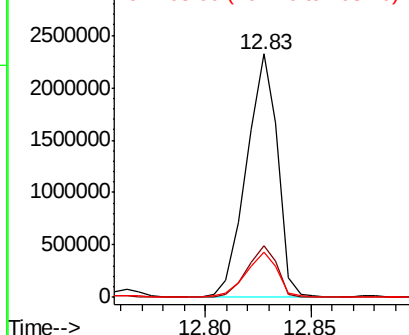
202 100

200 21.3 16.9 25.3

203 18.5 14.5 21.7



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: 15.348 ng

RT: 12.96 min Scan# 1848

Delta R.T. -0.00 min

Lab File: BF114252.D

Acq: 14 May 2019 9:49

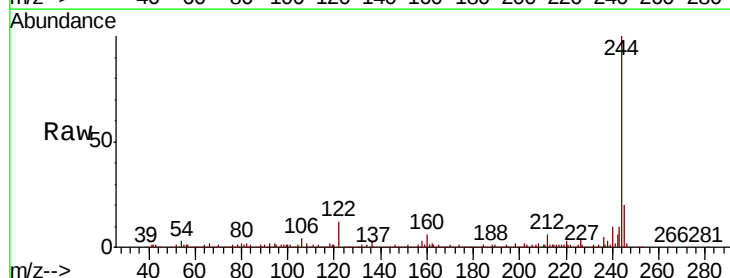
Tgt Ion:244 Resp: 407799

Ion Ratio Lower Upper

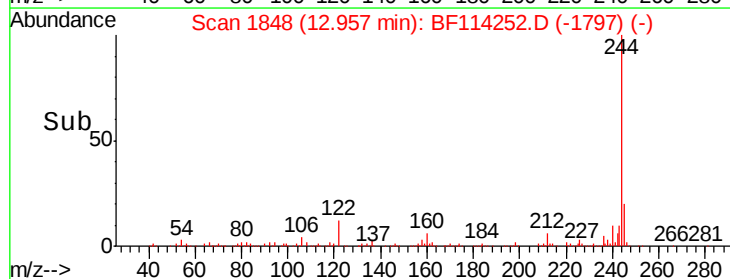
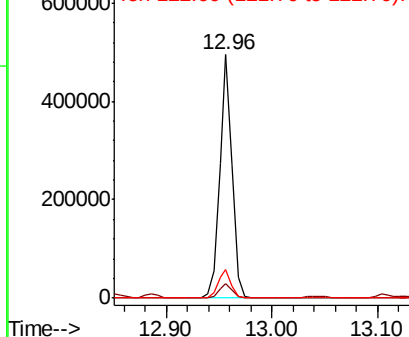
244 100

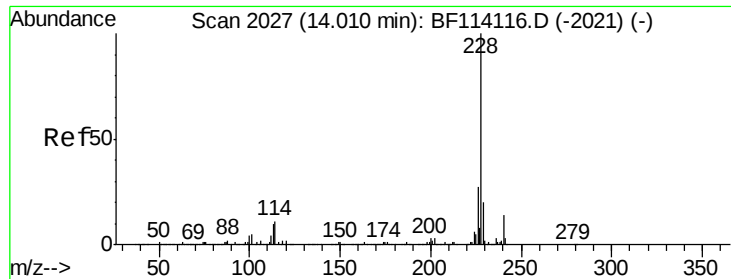
212 6.1 5.8 8.6

122 12.0 9.4 14.2



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

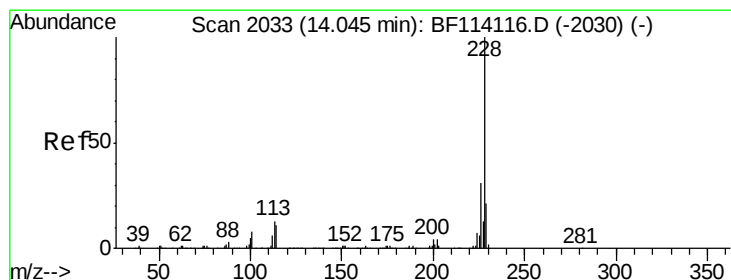
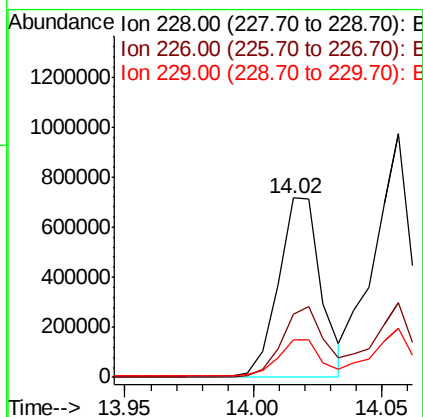
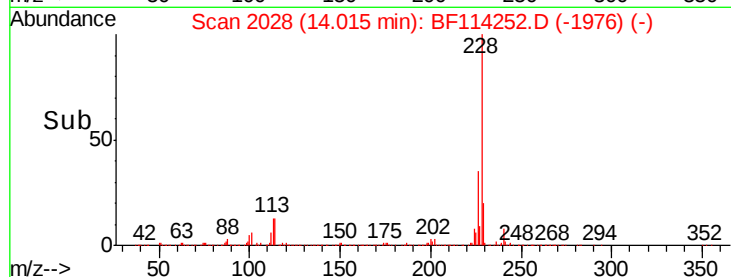
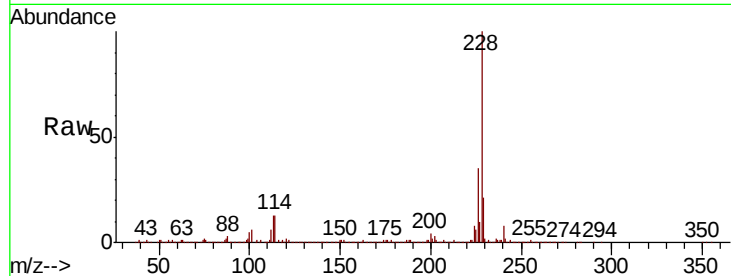




#81
Benzo(a)anthracene
Concen: 23.495 ng m
RT: 14.02 min Scan# 2028
Delta R.T. 0.01 min
Lab File: BF114252.D
Acq: 14 May 2019 9:49

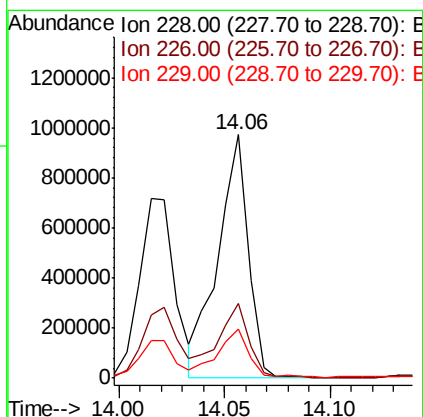
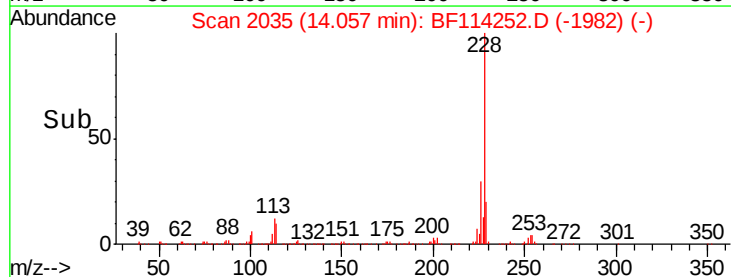
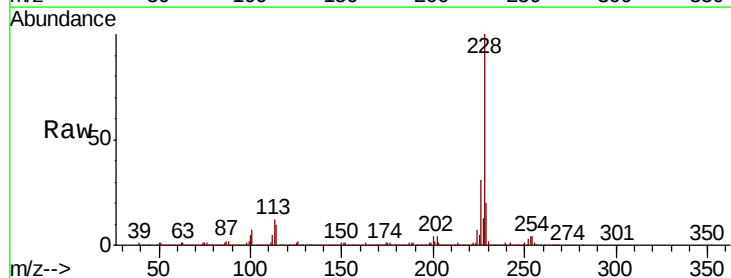
Instrument :
BNA_F
ClientSampleId :

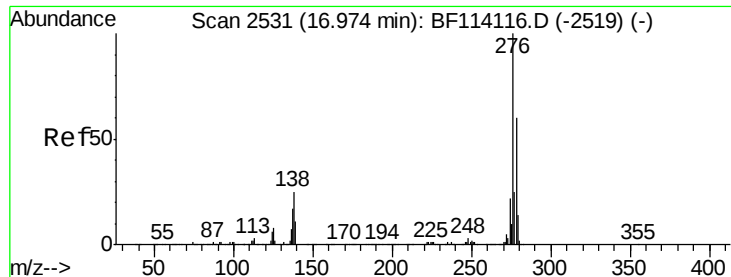
Tot Ion:228 Resp: 832379
Ion Ratio Lower Upper
228 100
226 35.0 22.2 33.2#
229 20.6 16.4 24.6



#83
Chrysene
Concen: 27.611 ng
RT: 14.06 min Scan# 2035
Delta R.T. 0.01 min
Lab File: BF114252.D
Acq: 14 May 2019 9:49

Tgt Ion:228 Resp: 958899
Ion Ratio Lower Upper
228 100
226 30.5 25.0 37.6
229 20.4 17.0 25.6

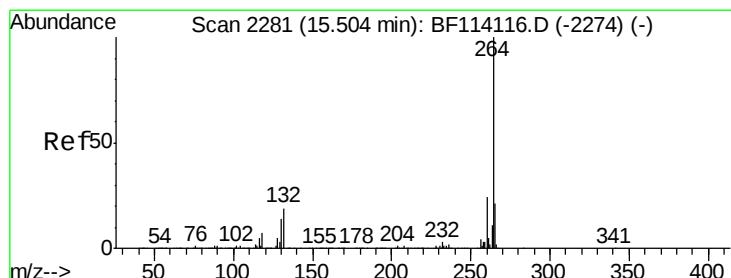
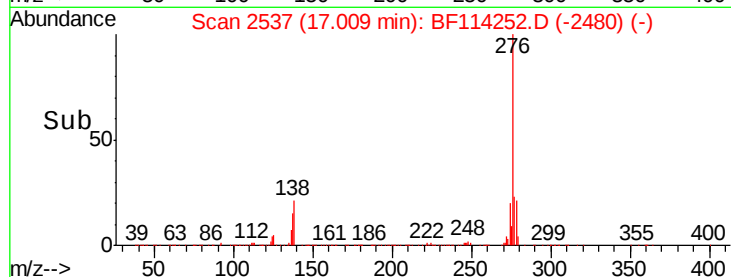
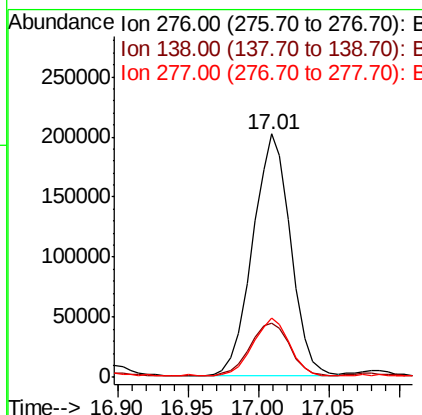
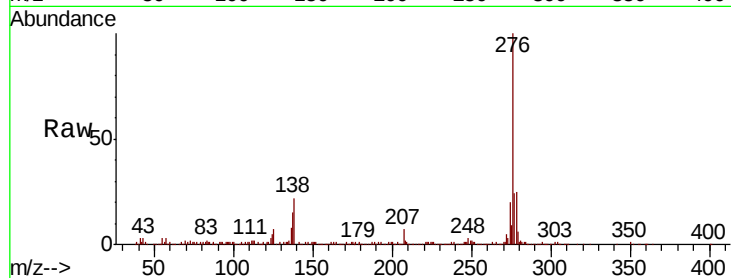




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 12.345 ng
 RT: 17.01 min Scan# 2537
 Delta R.T. 0.04 min
 Lab File: BF114252.D
 Acq: 14 May 2019 9:49

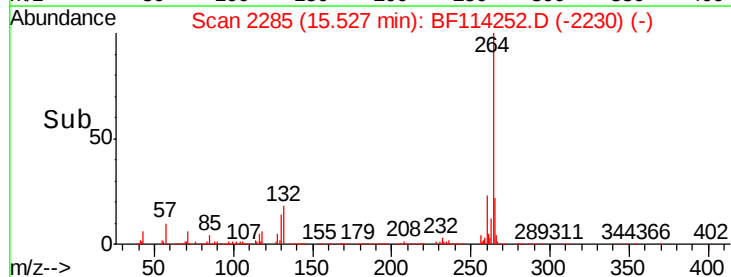
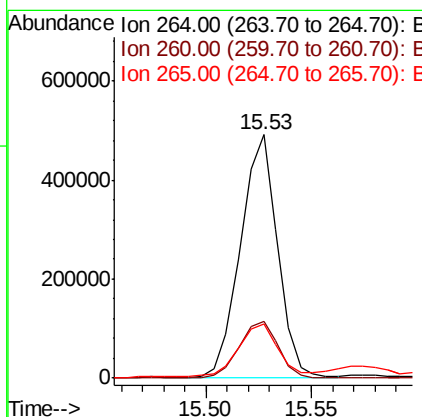
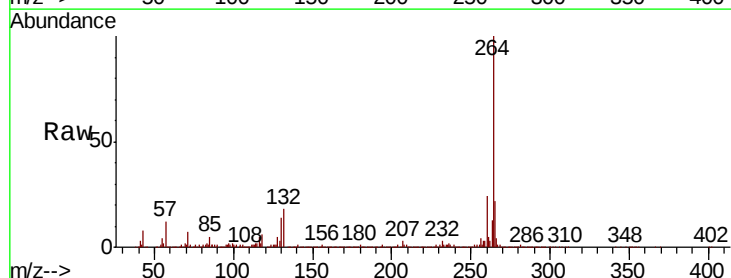
Instrument :
 BNA_F
 ClientSampled :

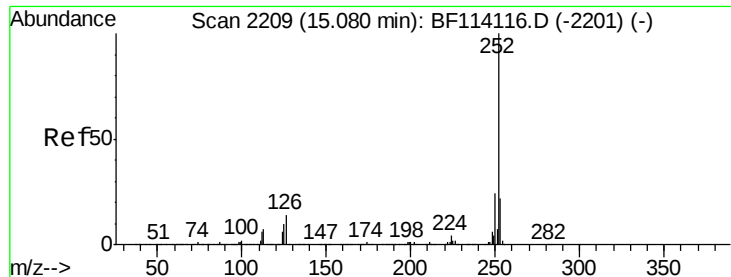
Tot Ion:276 Resp: 378914
 Ion Ratio Lower Upper
 276 100
 138 22.9 20.2 30.2
 277 23.5 20.0 30.0



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.53 min Scan# 2285
 Delta R.T. 0.02 min
 Lab File: BF114252.D
 Acq: 14 May 2019 9:49

Tgt Ion:264 Resp: 596977
 Ion Ratio Lower Upper
 264 100
 260 23.5 19.4 29.0
 265 22.1 16.9 25.3

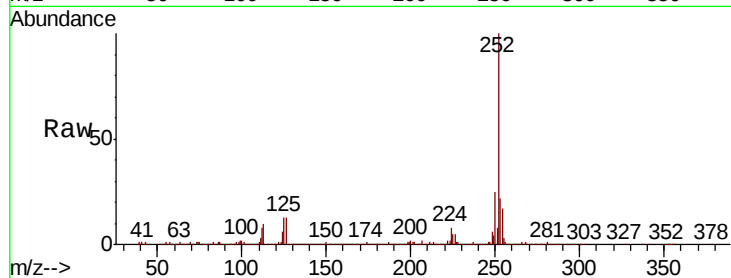




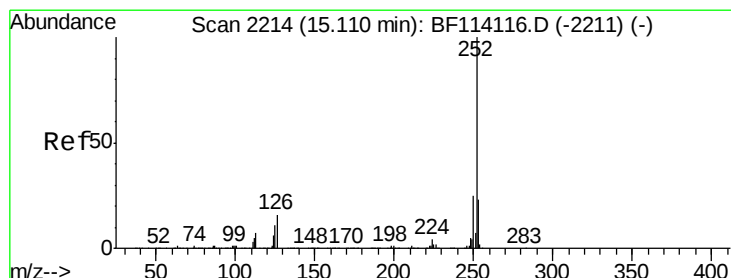
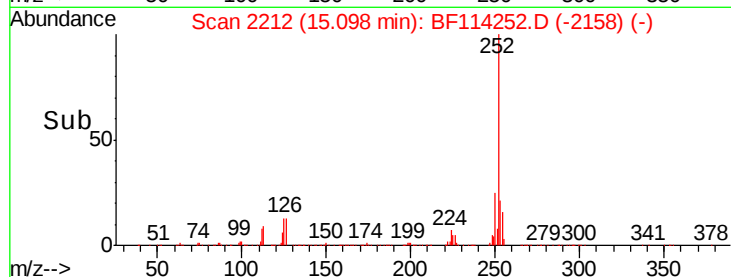
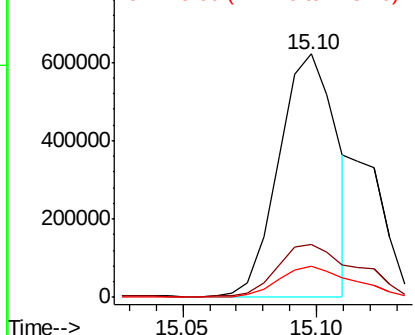
#88
Benzo(b)fluoranthene
Concen: 24.354 ng m
RT: 15.10 min Scan# 2212
Delta R.T. 0.02 min
Lab File: BF114252.D
Acq: 14 May 2019 9:49

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 931446
Ion Ratio Lower Upper
252 100
253 21.7 17.8 26.8
125 12.9 8.3 12.5#

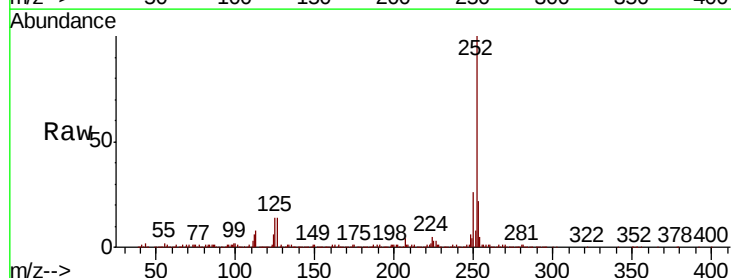


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

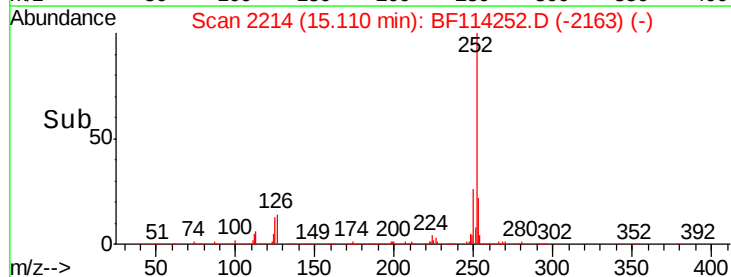
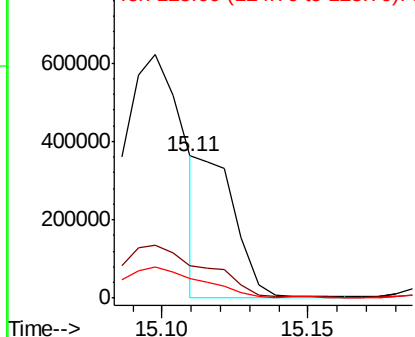


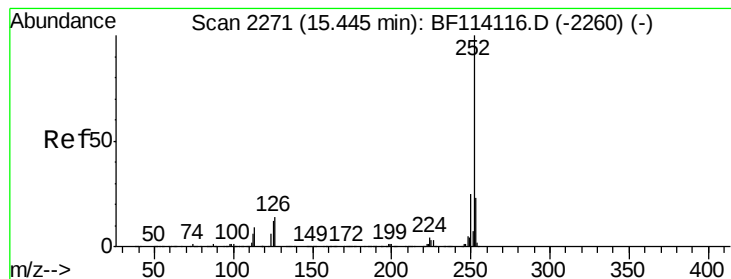
#89
Benzo(k)fluoranthene
Concen: 8.973 ng m
RT: 15.11 min Scan# 2214
Delta R.T. -0.00 min
Lab File: BF114252.D
Acq: 14 May 2019 9:49

Tgt Ion:252 Resp: 315249
Ion Ratio Lower Upper
252 100
253 22.3 18.2 27.2
125 13.9 8.6 13.0#



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: 17.539 ng

RT: 15.46 min Scan# 2274

Delta R.T. 0.02 min

Lab File: BF114252.D

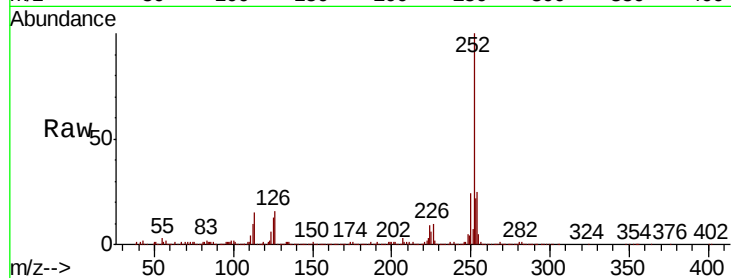
Acq: 14 May 2019 9:49

Instrument :

BNA_F

ClientSampleId :

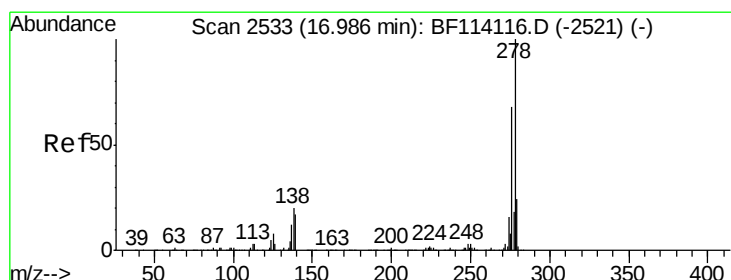
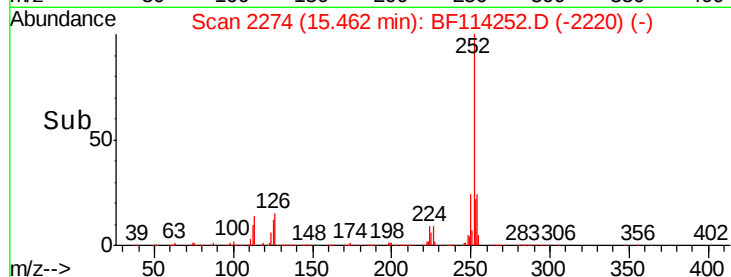
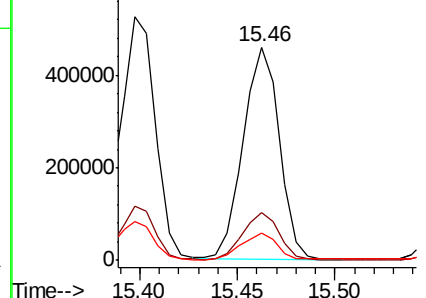
Tot Ion:	252	Resp:	590363
Ion Ratio	Lower	Upper	
252	100		
253	22.3	18.1	27.1
125	12.6	9.5	14.3



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



#91

Dibenzo(a,h)anthracene

Concen: 3.728 ng m

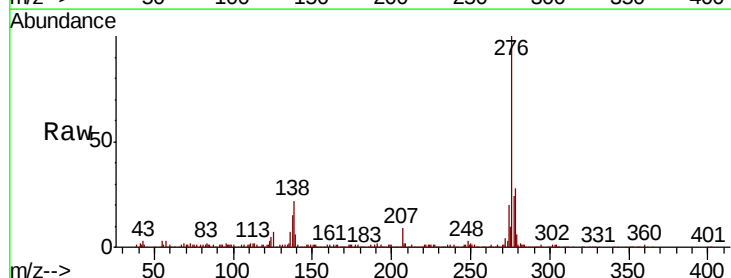
RT: 17.02 min Scan# 2538

Delta R.T. 0.03 min

Lab File: BF114252.D

Acq: 14 May 2019 9:49

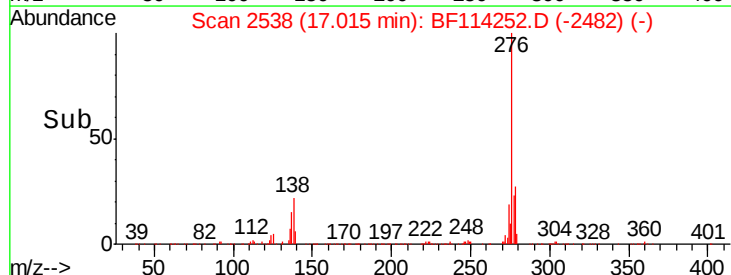
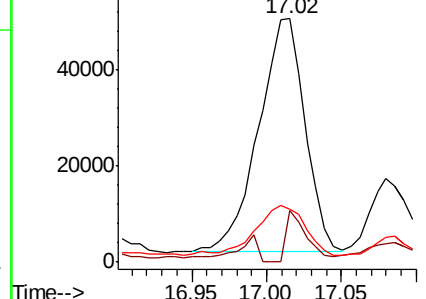
Tgt Ion:	278	Resp:	104283
Ion Ratio	Lower	Upper	
278	100		
139	21.3	13.5	20.3#
279	21.9	19.0	28.6

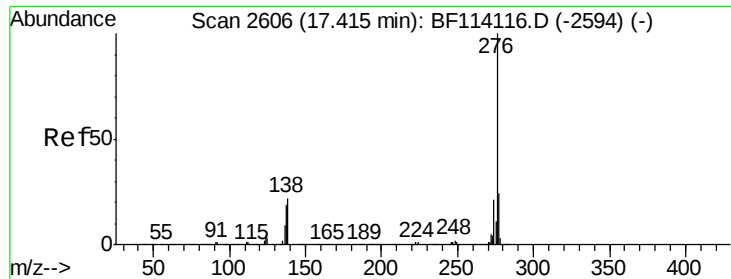


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#92
 Benzo(a,h,i)perylene
 Concen: 14.650 ng
 RT: 17.46 min Scan# 2614
 Delta R.T. 0.05 min
 Lab File: BF114252.D
 Acq: 14 May 2019 9:49

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion: 276 Resp: 410645
 Ion Ratio Lower Upper
 276 100
 277 24.6 19.0 28.4
 138 23.9 17.8 26.6

