

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012020\
 Data File : BF118630.D
 Acq On : 21 Jan 2020 10:50
 Operator : CG/JU
 Sample : L1148-02 5X
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jan 21 11:42:04 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jan 20 14:45:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.89	152	354217	20.00	ng	0.00
21) Naphthalene-d8	8.17	136	1235674	20.00	ng	0.00
39) Acenaphthene-d10	9.92	164	608959	20.00	ng	0.00
64) Phenanthrene-d10	11.41	188	927414	20.00	ng	0.00
76) Chrysene-d12	14.05	240	830843	20.00	ng	0.00
87) Perylene-d12	15.53	264	886580	20.00	ng	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.49	112	409452	21.47	ng	0.00
7) Phenol-d6	6.50	99	536509	21.64	ng	-0.01
23) Nitrobenzene-d5	7.43	82	290513	13.15	ng	-0.01
42) 2,4,6-Tribromophenol	10.70	330	108266	15.37	ng	0.00
45) 2-Fluorobiphenyl	9.24	172	512620	13.84	ng	0.00
79) Terphenyl-d14	12.99	244	454309	11.93	ng	0.00

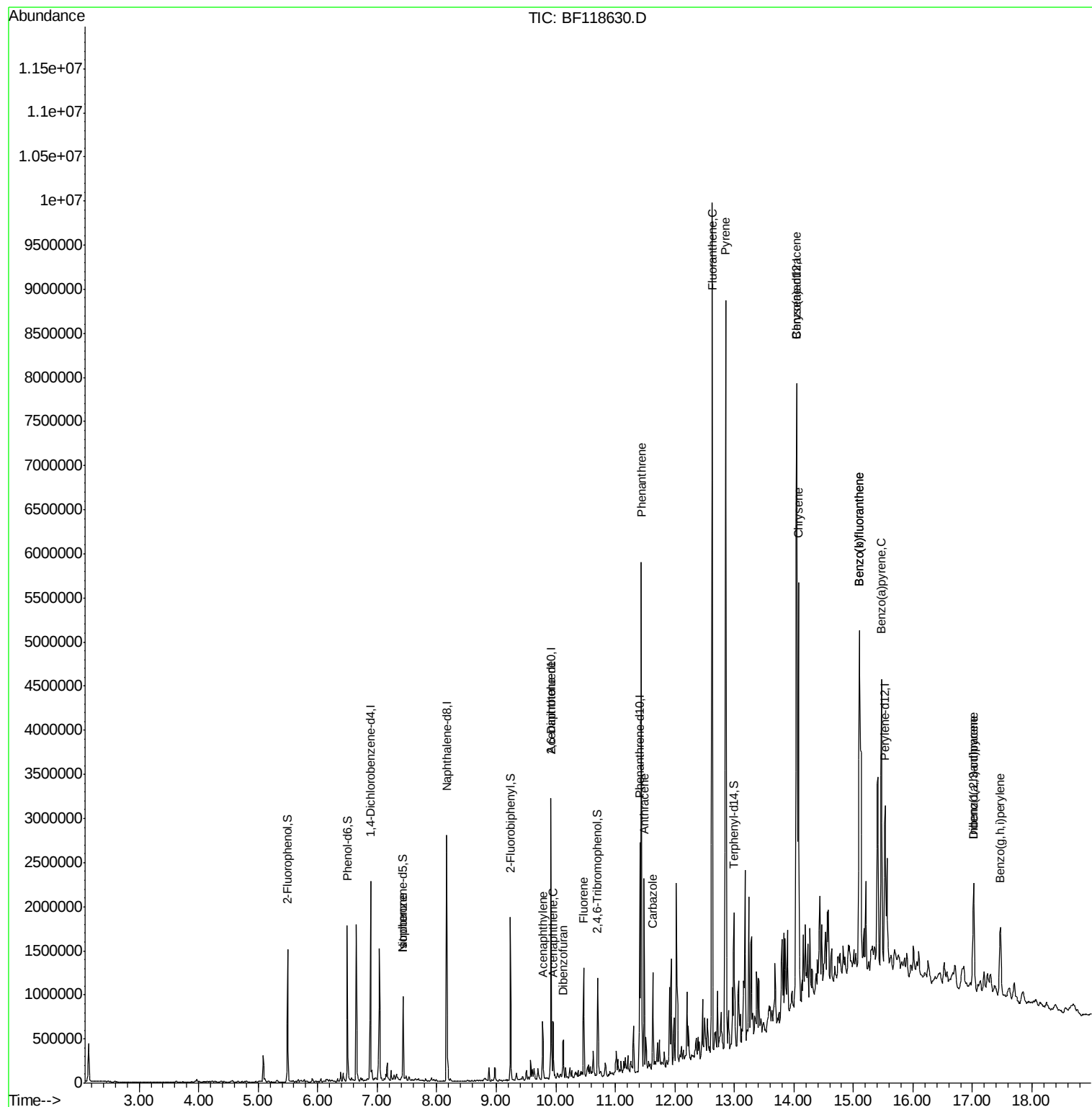
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
25) Isophorone	7.43	82	285066	7.075	ng	# 64
49) Acenaphthylene	9.78	152	237161	4.766	ng	95
51) 2,6-Dinitrotoluene	9.92	165	84046	9.460	ng	# 21
52) Acenaphthene	9.96	154	149629	4.496	ng	98
55) Dibenzofuran	10.13	168	144202	3.127	ng	93
58) Fluorene	10.47	166	330380	9.126	ng	100
71) Phenanthrene	11.43	178	2035283	45.489	ng	96
72) Anthracene	11.49	178	839796	18.969	ng	93
73) Carbazole	11.63	167	401254	9.881	ng	96
75) Fluoranthene	12.63	202	3908719	82.829	ng	98
78) Pyrene	12.86	202	3645962	64.637	ng	99
81) Benzo(a)anthracene	14.04	228	2277470	45.568	ng	95
83) Chrysene	14.08	228	1922629	40.138	ng	97
86) Indeno(1,2,3-cd)pyrene	17.02	276	805671	19.357	ng	97
88) Benzo(b)fluoranthene	15.10	252	3275347	58.774	ng	98
89) Benzo(k)fluoranthene	15.10	252	3275347	63.439	ng	99
90) Benzo(a)pyrene	15.47	252	1663619	34.606	ng	100
91) Dibenz(a,h)anthracene	17.03	278	223342	5.252	ng	# 92
92) Benzo(a,h,i)perylene	17.47	276	693801	16.804	ng	98

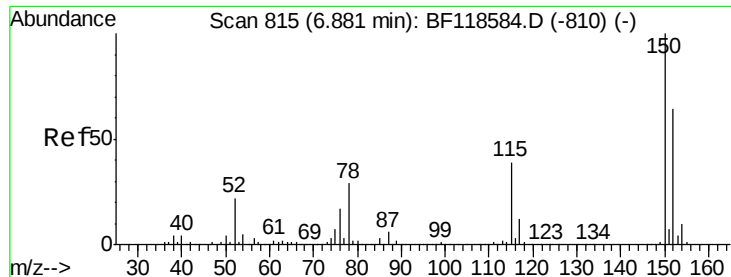
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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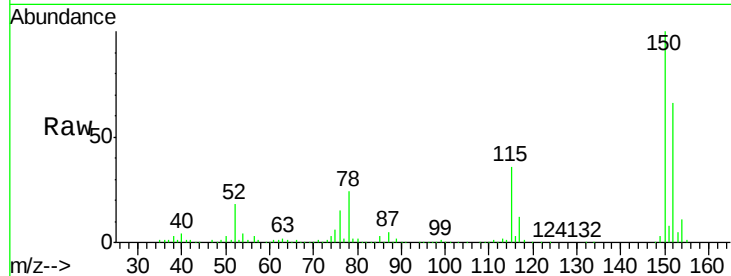


#1

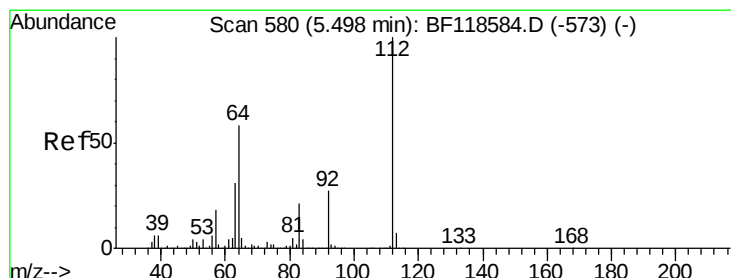
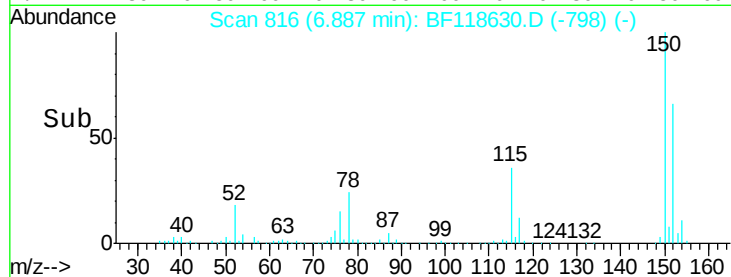
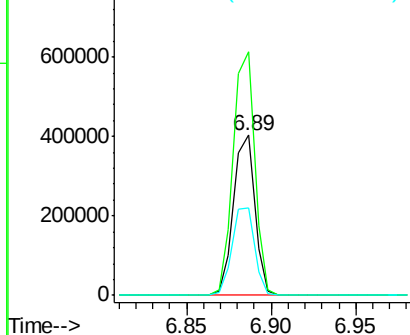
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.89 min Scan# 816
Delta R.T. 0.01 min
Lab File: BF118630.D
Acq: 21 Jan 2020 10:50

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	152.0	125.6	188.4
115	54.6	48.4	72.6



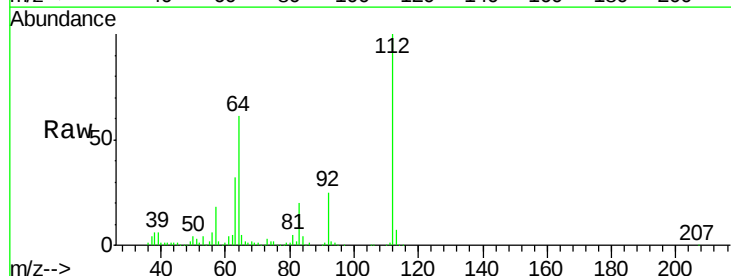
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



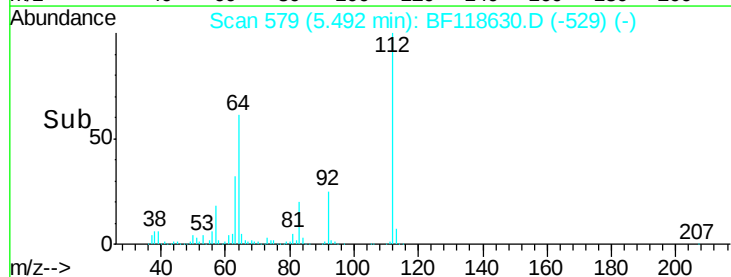
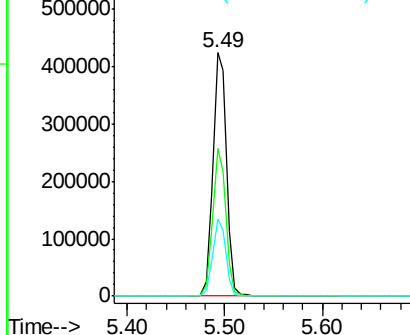
#5

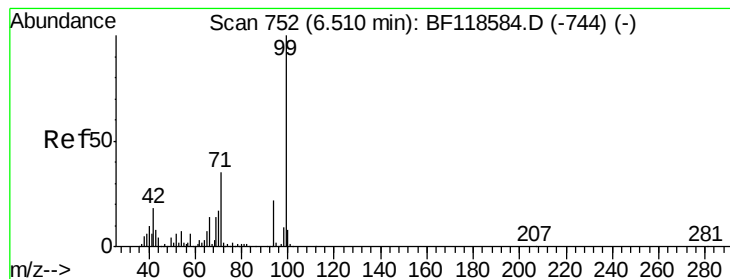
2-Fluorophenol
Concen: 21.469 ng
RT: 5.49 min Scan# 579
Delta R.T. -0.01 min
Lab File: BF118630.D
Acq: 21 Jan 2020 10:50

Tgt Ion	Ratio	Lower	Upper
112	100		
64	60.8	46.6	70.0
63	31.7	25.1	37.7



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: 21.643 ng

RT: 6.50 min Scan# 750

Delta R.T. -0.01 min

Lab File: BF118630.D

Acq: 21 Jan 2020 10:50

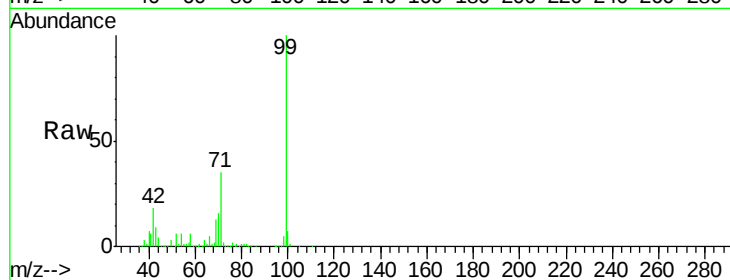
Instrument :

BNA_F

ClientSampleId :

Tot Ion: 99 Resp: 536509

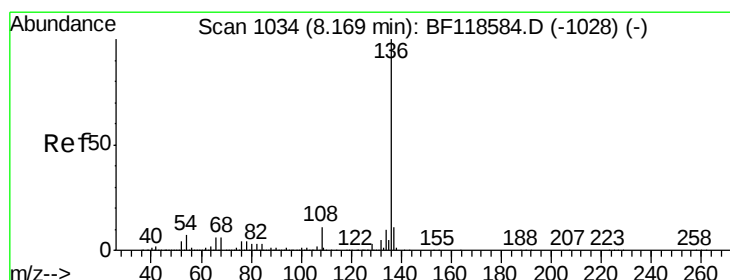
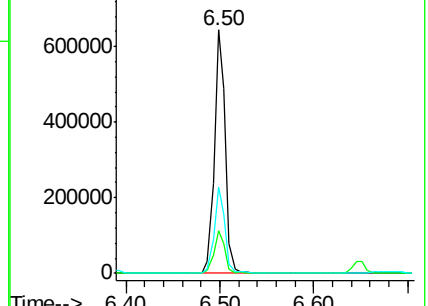
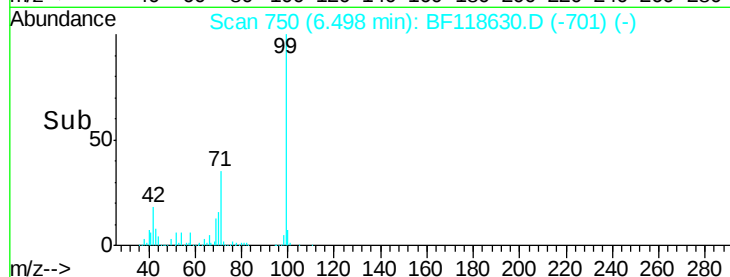
Ion	Ratio	Lower	Upper
99	100		
42	17.6	14.2	21.2
71	35.3	27.8	41.6



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: 8.17 min Scan# 1034

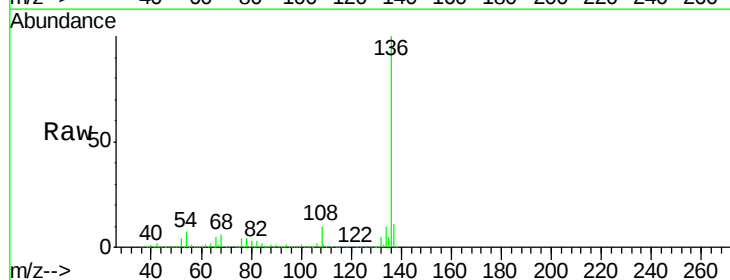
Delta R.T. 0.00 min

Lab File: BF118630.D

Acq: 21 Jan 2020 10:50

Tgt Ion: 136 Resp: 1235674

Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.1	13.7
54	6.6	5.8	8.6
68	5.7	5.0	7.4

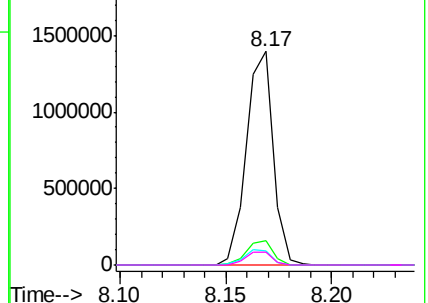
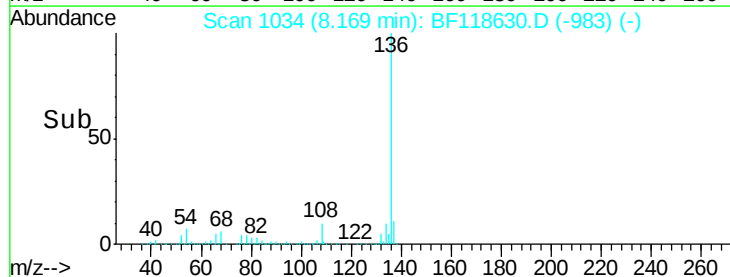


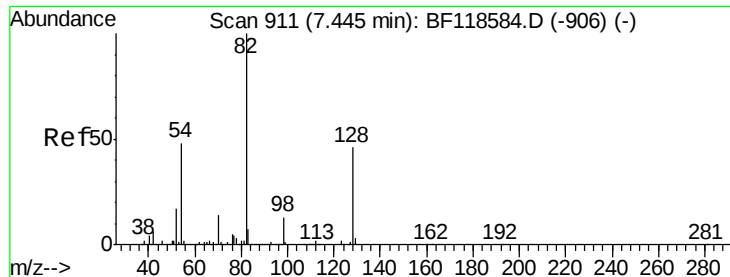
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1

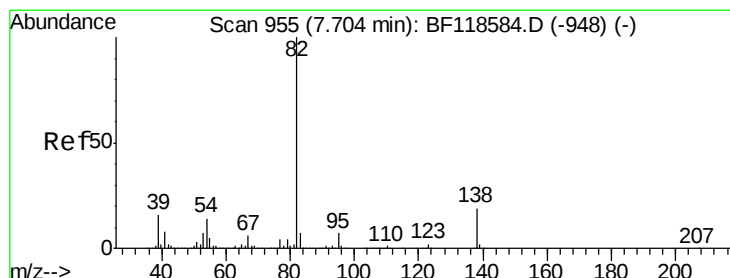
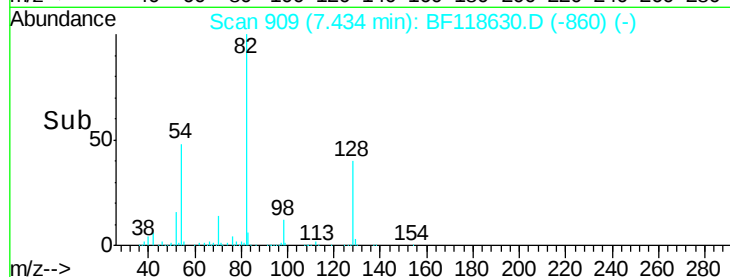
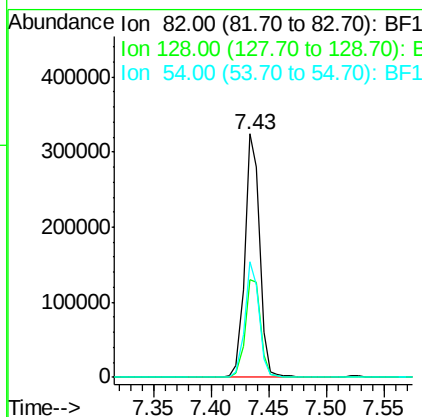
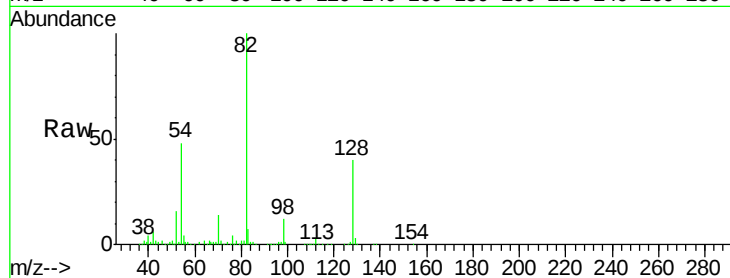




#23
 Nitrobenzene-d5
 Concen: 13.150 ng
 RT: 7.43 min Scan# 909
 Delta R.T. -0.01 min
 Lab File: BF118630.D
 Acq: 21 Jan 2020 10:50

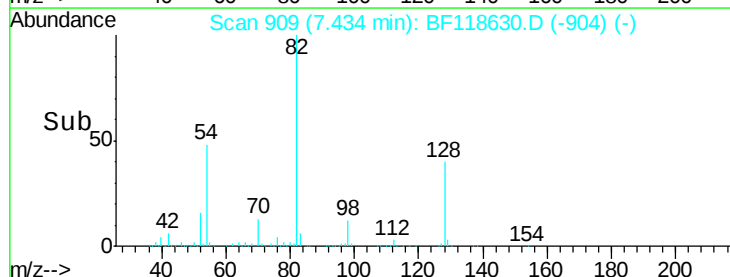
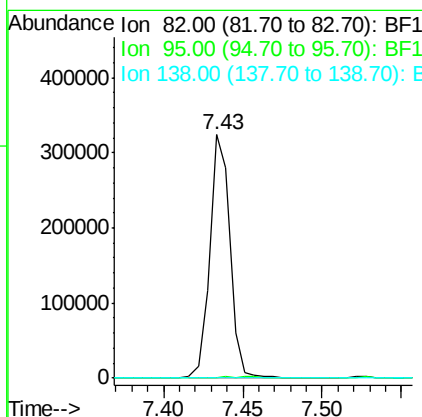
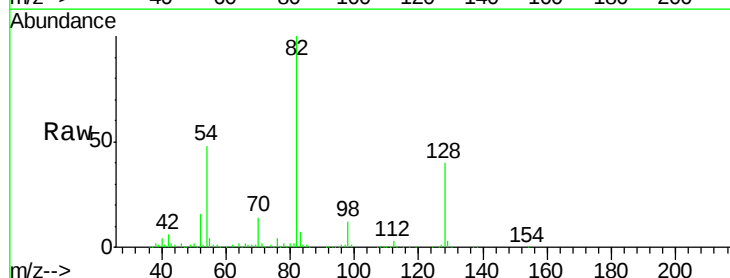
Instrument :
 BNA_F
 ClientSampleId :

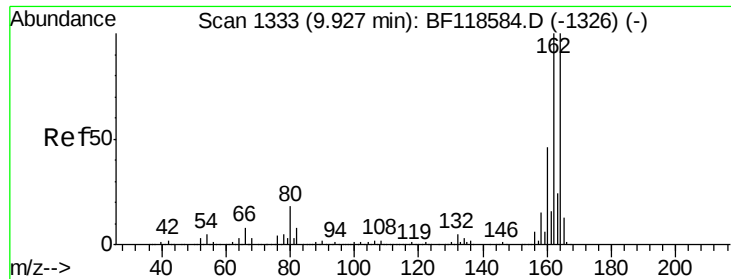
Tot Ion	82	Resp	290513
Ion Ratio	Lower	Upper	
82	100		
128	40.0	36.6	54.8
54	47.5	38.0	57.0



#25
 Isophorone
 Concen: 7.075 ng
 RT: 7.43 min Scan# 909
 Delta R.T. -0.27 min
 Lab File: BF118630.D
 Acq: 21 Jan 2020 10:50

Tgt Ion	82	Resp	285066
Ion Ratio	Lower	Upper	
82	100		
95	0.4	5.9	8.9#
138	0.1	15.3	22.9#

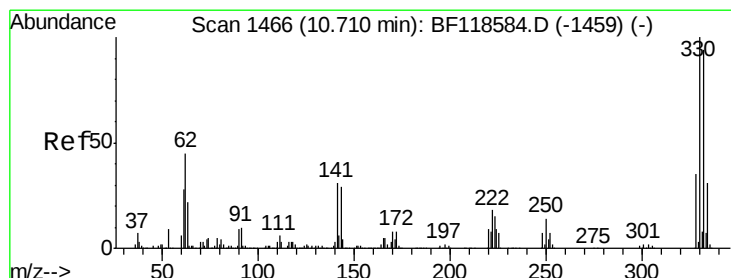
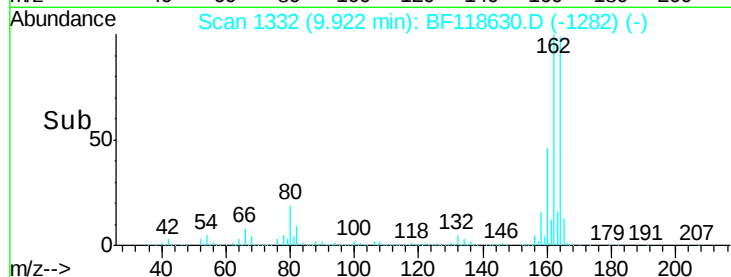
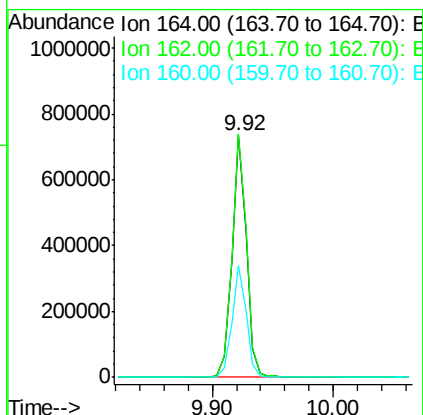
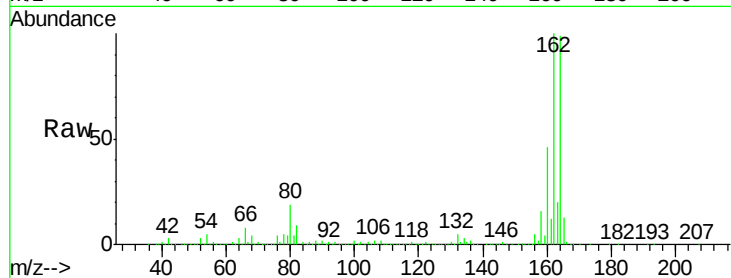




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.92 min Scan# 1332
Delta R.T. -0.01 min
Lab File: BF118630.D
Acq: 21 Jan 2020 10:50

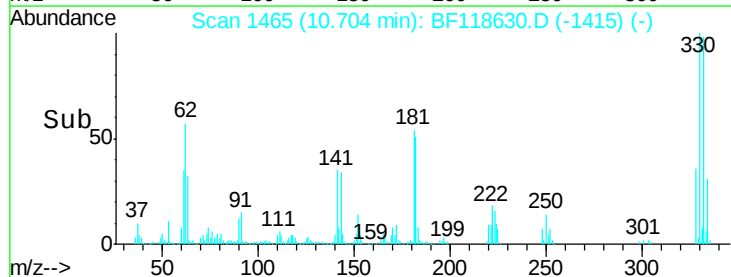
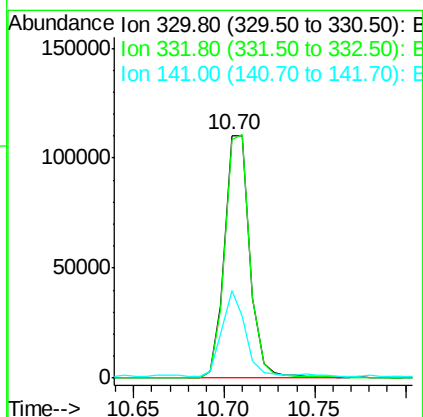
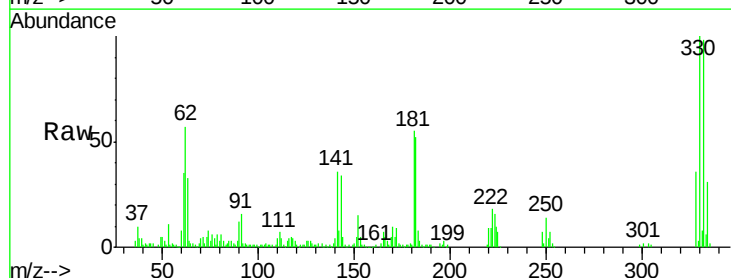
Instrument :
BNA_F
ClientSampleId :

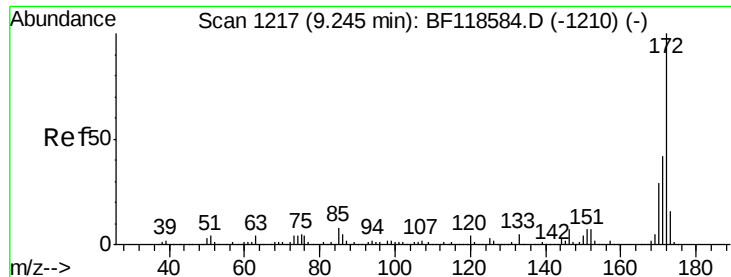
Tot Ion	Ratio	Lower	Upper
164	100		
162	100.7	80.4	120.6
160	46.3	36.6	55.0



#42
2,4,6-Tribromophenol
Concen: 15.371 ng
RT: 10.70 min Scan# 1465
Delta R.T. -0.01 min
Lab File: BF118630.D
Acq: 21 Jan 2020 10:50

Tgt Ion	Ratio	Lower	Upper
330	100		
332	99.2	76.2	114.4
141	32.0	23.9	35.9

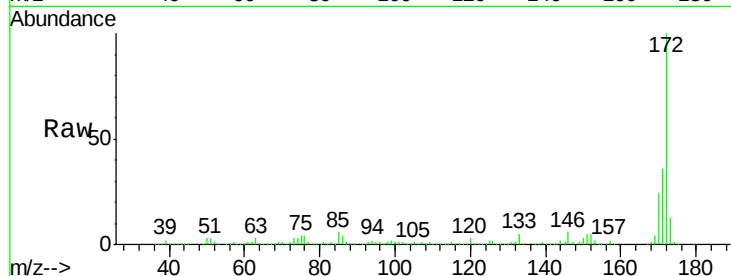




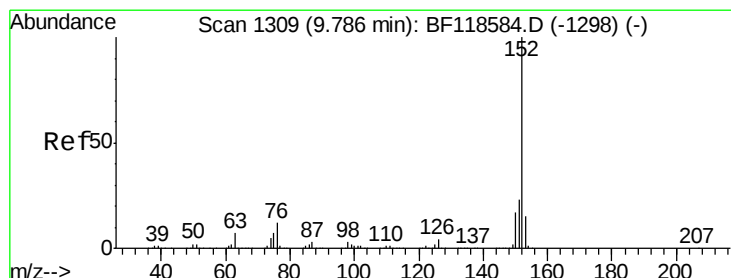
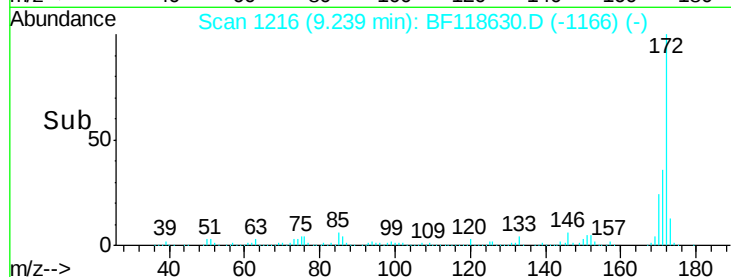
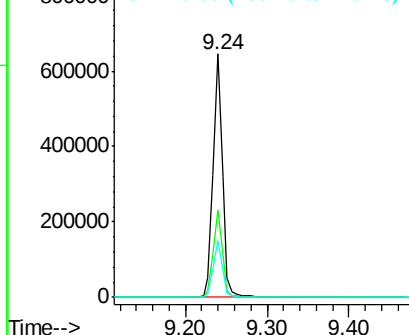
#45
2-Fluorobiphenyl
Concen: 13.836 ng
RT: 9.24 min Scan# 1216
Delta R.T. -0.01 min
Lab File: BF118630.D
Acq: 21 Jan 2020 10:50

Instrument :
BNA_F
ClientSampleId :

Tot Ion:172 Resp: 512620
Ion Ratio Lower Upper
172 100
171 35.7 33.4 50.2
170 23.5 23.2 34.8

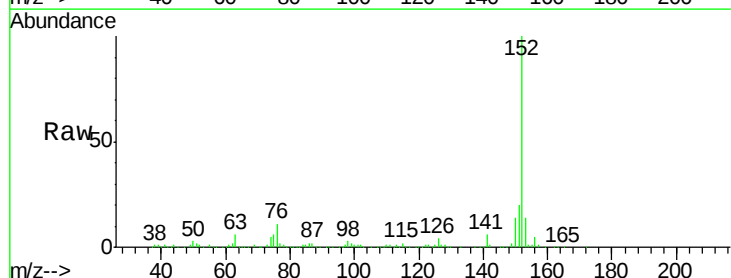


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

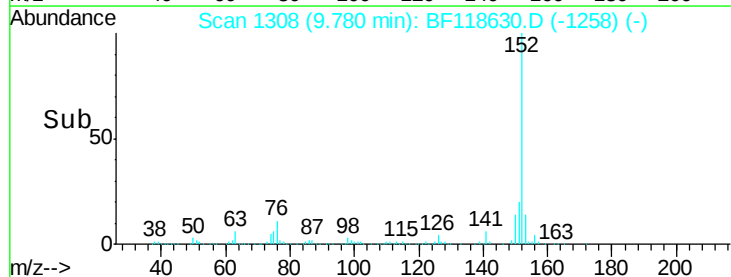
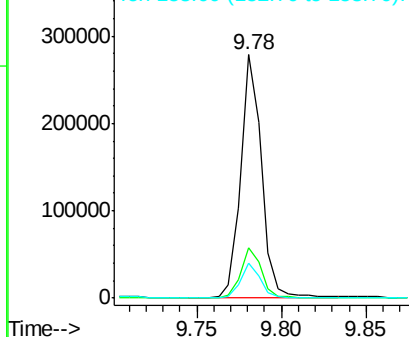


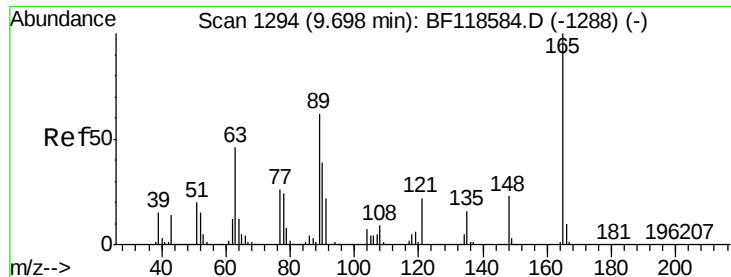
#49
Acenaphthylene
Concen: 4.766 ng
RT: 9.78 min Scan# 1308
Delta R.T. -0.01 min
Lab File: BF118630.D
Acq: 21 Jan 2020 10:50

Tgt Ion:152 Resp: 237161
Ion Ratio Lower Upper
152 100
151 20.4 18.6 27.8
153 14.1 12.2 18.4



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





#51

2,6-Dinitrotoluene

Concen: 9.460 ng

RT: 9.92 min Scan# 1332

Delta R.T. 0.22 min

Lab File: BF118630.D

Acq: 21 Jan 2020 10:50

Instrument :

BNA_F

ClientSampleId :

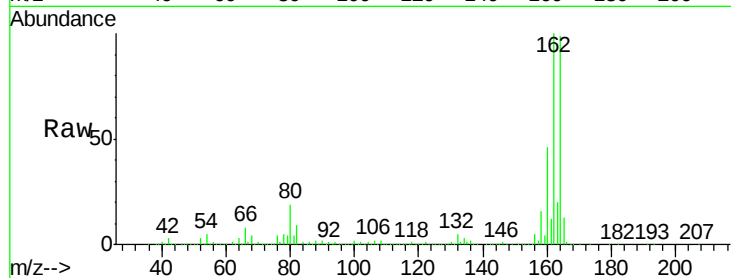
Tot Ion:165 Resp: 84046

Ion Ratio Lower Upper

165 100

63 1.4 48.9 73.3#

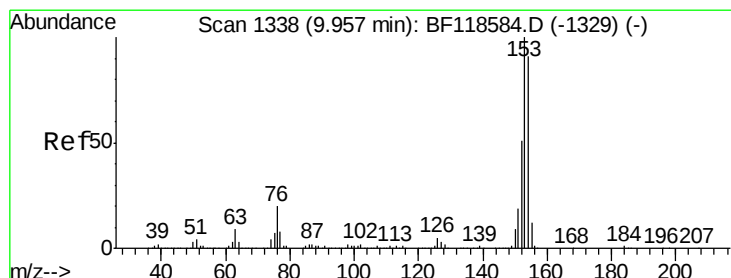
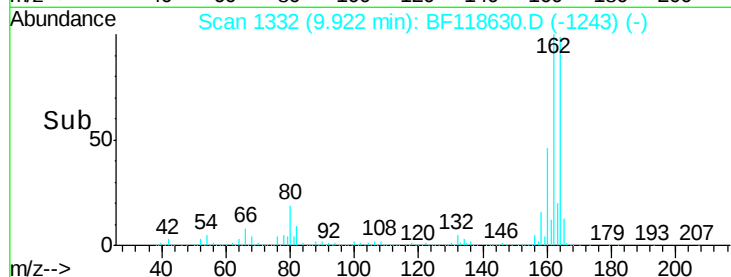
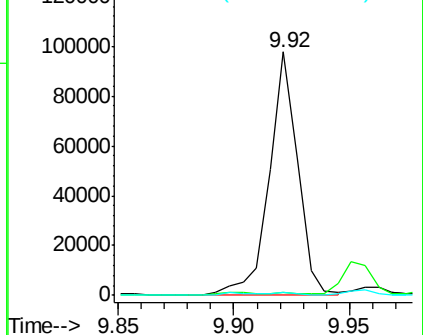
89 1.3 49.8 74.6#



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1



#52

Acenaphthene

Concen: 4.496 ng

RT: 9.96 min Scan# 1338

Delta R.T. 0.00 min

Lab File: BF118630.D

Acq: 21 Jan 2020 10:50

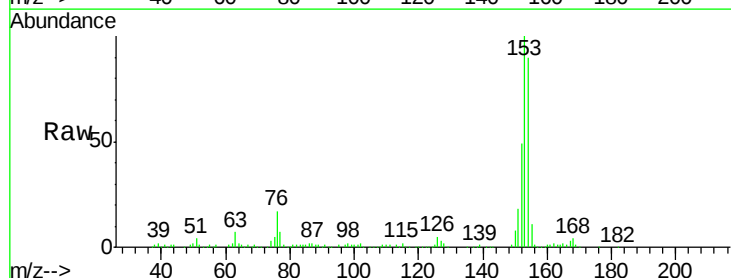
Tgt Ion:154 Resp: 149629

Ion Ratio Lower Upper

154 100

153 111.6 87.6 131.4

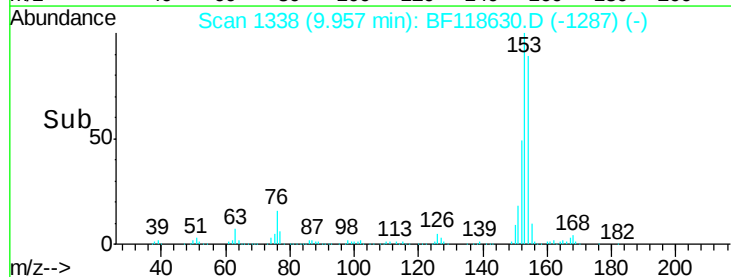
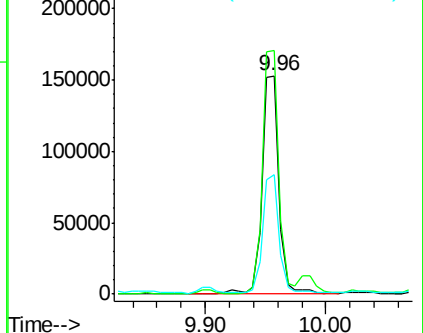
152 54.7 44.4 66.6

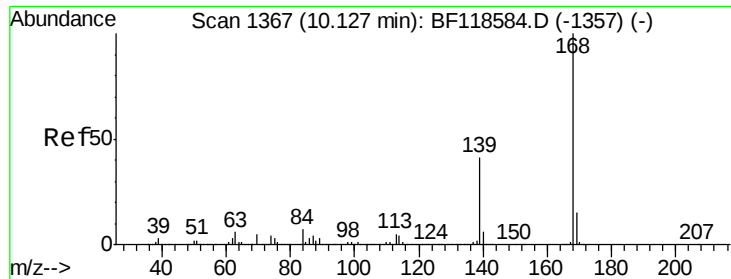


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

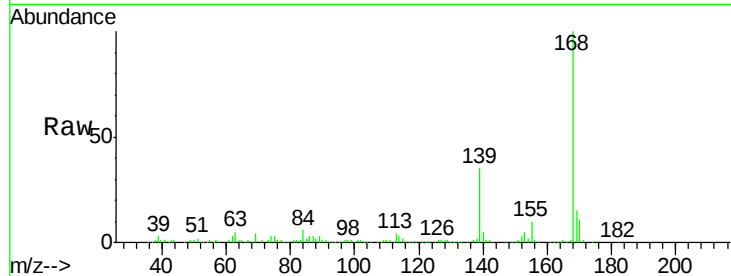




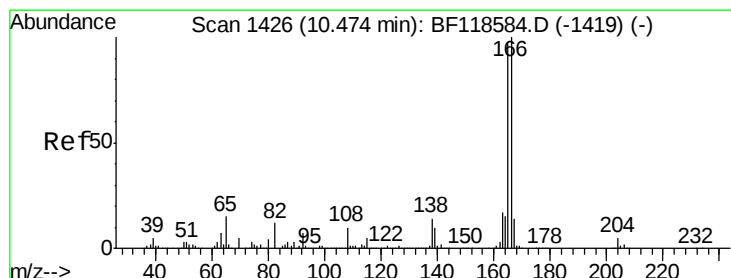
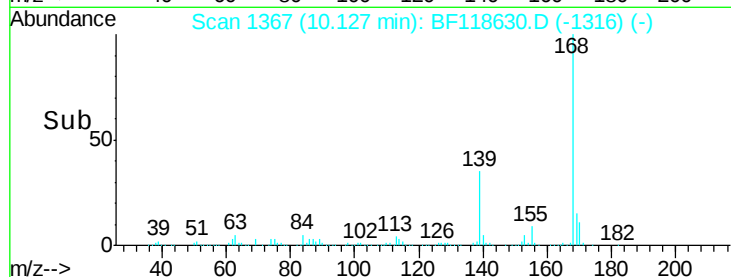
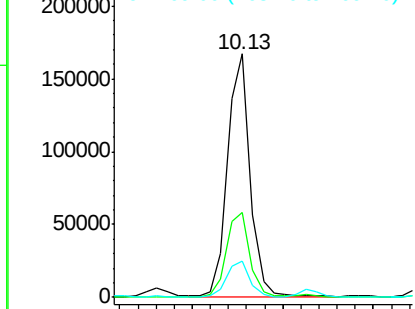
#55
Dibenzofuran
Concen: 3.127 ng
RT: 10.13 min Scan# 1367
Delta R.T. 0.00 min
Lab File: BF118630.D
Acq: 21 Jan 2020 10:50

Instrument :
BNA_F
ClientSampleId :

Tot Ion:168 Resp: 144202
Ion Ratio Lower Upper
168 100
139 34.9 32.7 49.1
169 15.1 12.2 18.2

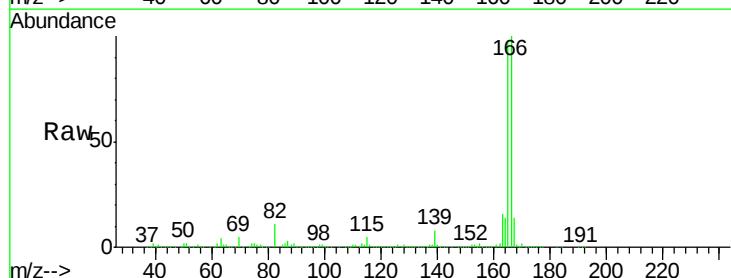


Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

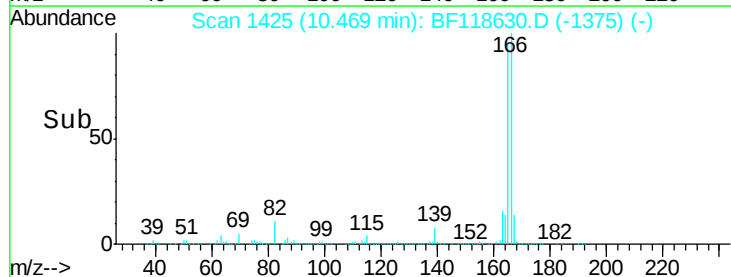
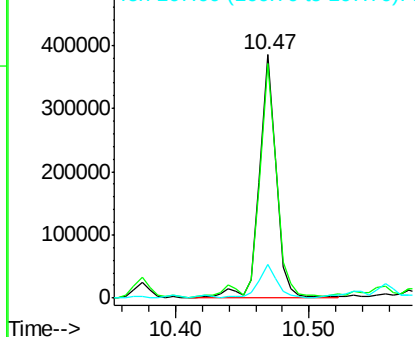


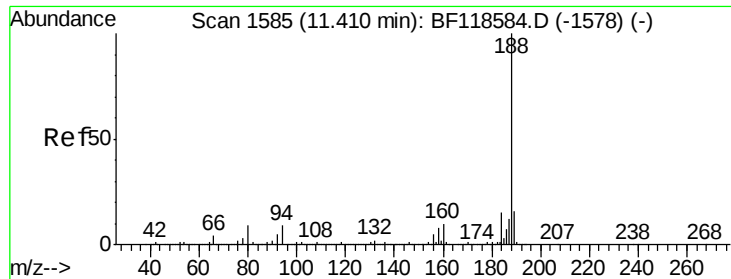
#58
Fluorene
Concen: 9.126 ng
RT: 10.47 min Scan# 1425
Delta R.T. -0.01 min
Lab File: BF118630.D
Acq: 21 Jan 2020 10:50

Tgt Ion:166 Resp: 330380
Ion Ratio Lower Upper
166 100
165 96.6 77.3 115.9
167 14.0 11.5 17.3



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.41 min Scan# 1585

Delta R.T. 0.00 min

Lab File: BF118630.D

Acq: 21 Jan 2020 10:50

Instrument :

BNA_F

ClientSampled :

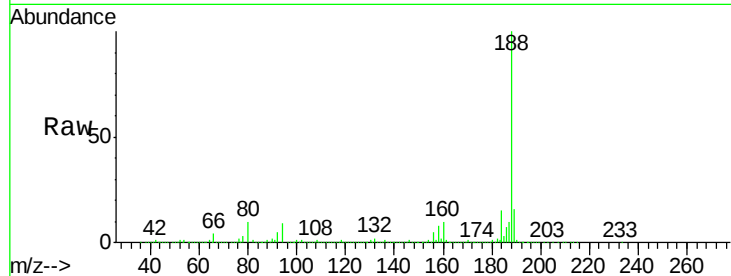
Tot Ion:188 Resp: 927414

Ion Ratio Lower Upper

188 100

94 9.3 7.1 10.7

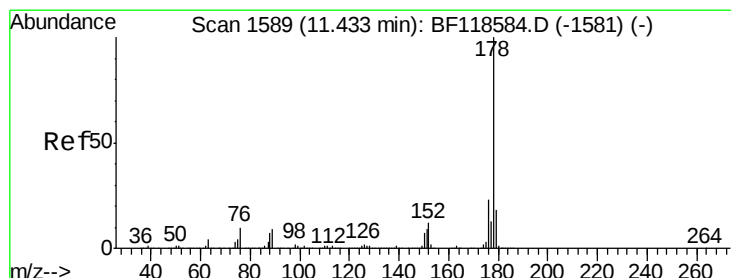
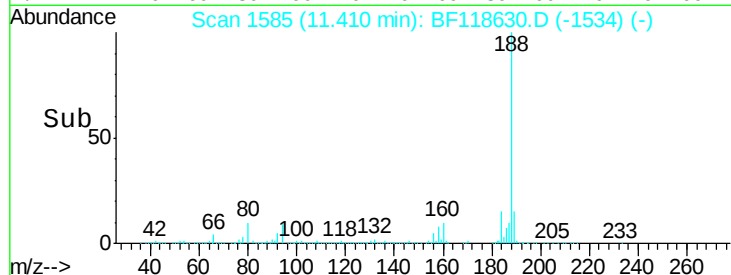
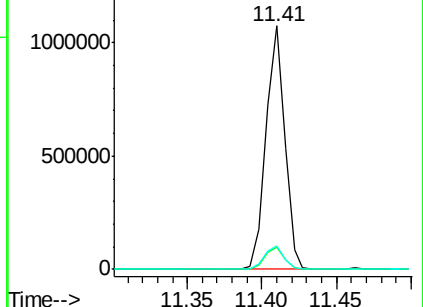
80 9.8 7.5 11.3



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: 45.489 ng

RT: 11.43 min Scan# 1589

Delta R.T. 0.00 min

Lab File: BF118630.D

Acq: 21 Jan 2020 10:50

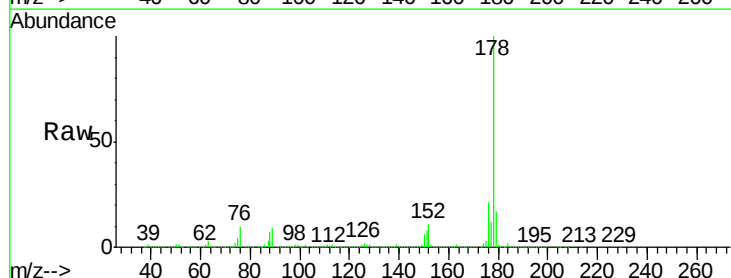
Tgt Ion:178 Resp: 2035283

Ion Ratio Lower Upper

178 100

176 21.2 18.6 27.8

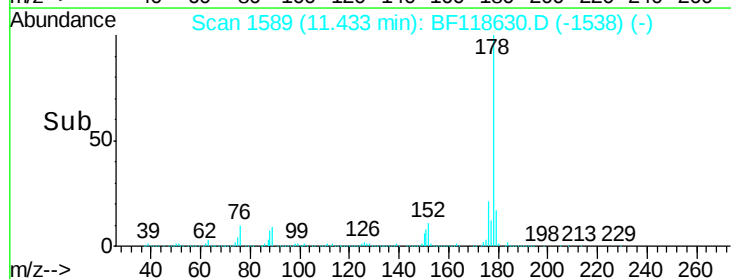
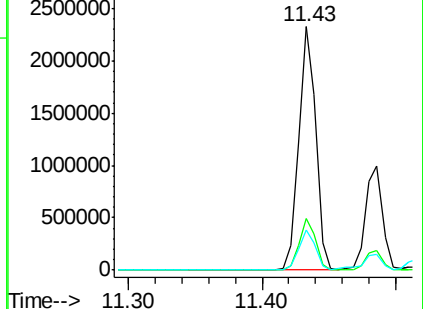
179 16.7 14.7 22.1

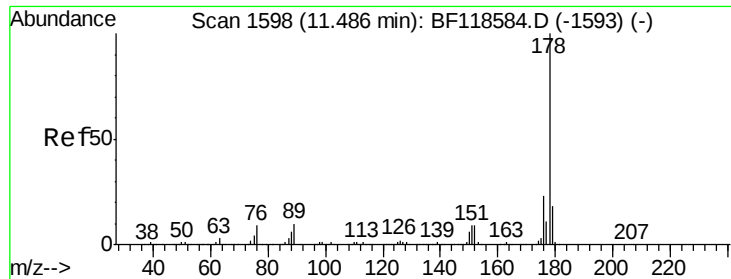


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

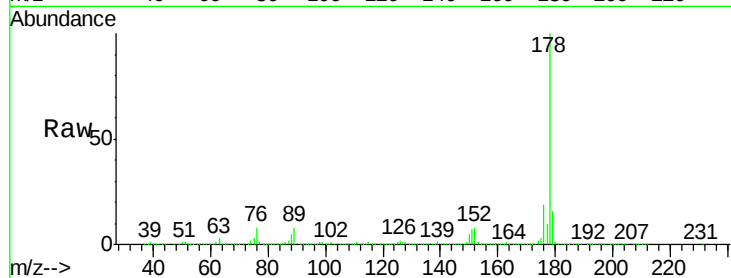




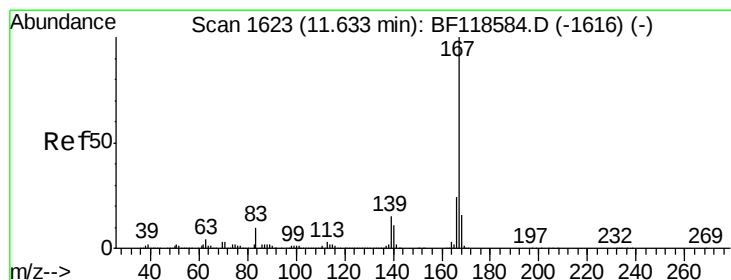
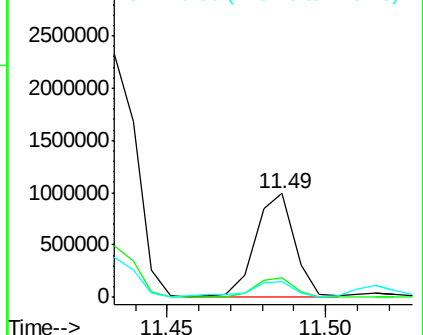
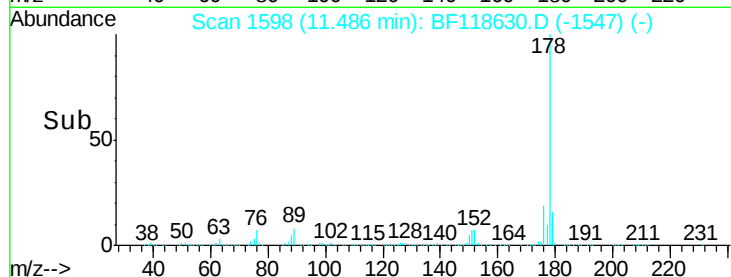
#72
 Anthracene
 Concen: 18.969 ng
 RT: 11.49 min Scan# 1598
 Delta R.T. 0.00 min
 Lab File: BF118630.D
 Acq: 21 Jan 2020 10:50

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:178 Resp: 839796
 Ion Ratio Lower Upper
 178 100
 176 19.1 18.0 27.0
 179 15.7 14.7 22.1

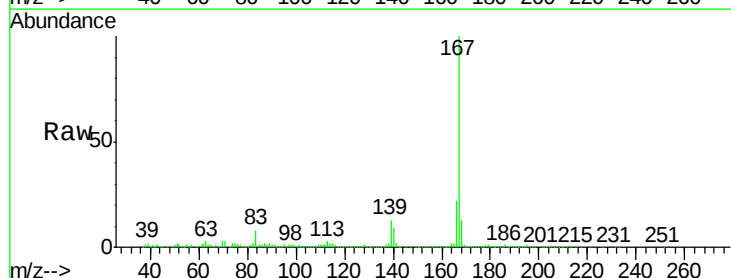


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

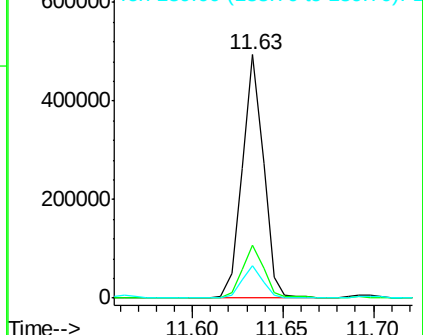
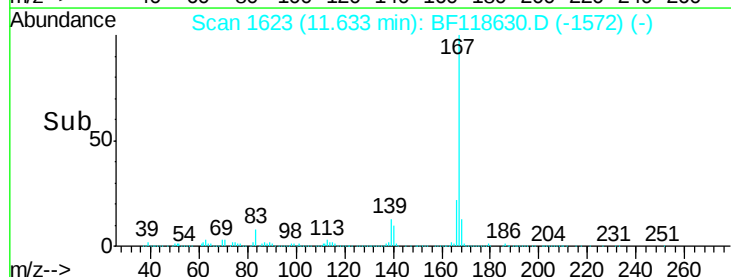


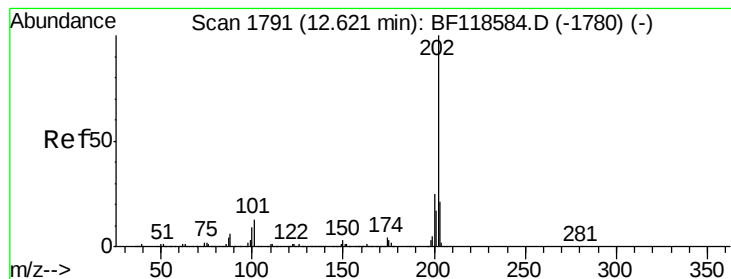
#73
 Carbazole
 Concen: 9.881 ng
 RT: 11.63 min Scan# 1623
 Delta R.T. 0.00 min
 Lab File: BF118630.D
 Acq: 21 Jan 2020 10:50

Tgt Ion:167 Resp: 401254
 Ion Ratio Lower Upper
 167 100
 166 21.8 19.4 29.2
 139 13.3 11.7 17.5



Abundance Ion 167.00 (166.70 to 167.70): E
 Ion 166.00 (165.70 to 166.70): E
 Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 82.829 ng

RT: 12.63 min Scan# 1792

Delta R.T. 0.01 min

Lab File: BF118630.D

Acq: 21 Jan 2020 10:50

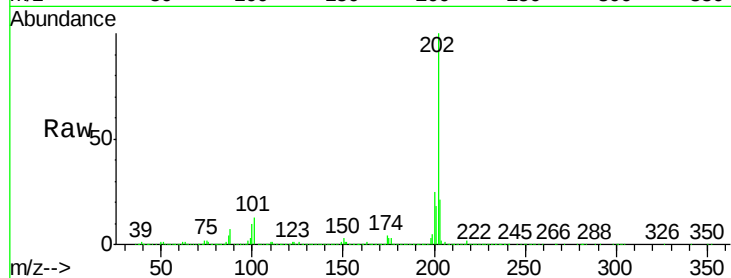
Instrument :

BNA_F

ClientSampleId :

Tot Ion:202 Resp: 3908719

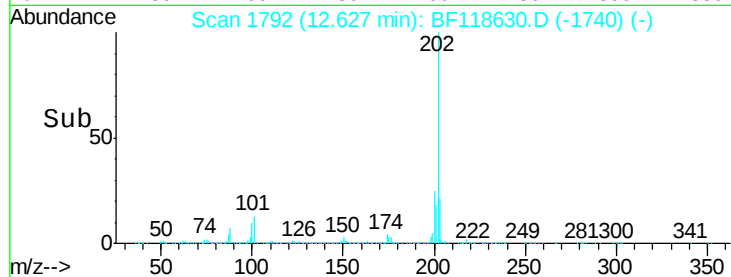
Ion	Ratio	Lower	Upper
202	100		
101	13.4	0.0	32.5
203	21.4	0.8	40.8



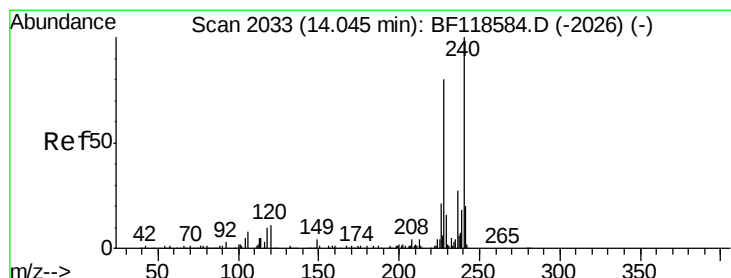
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



Time-->



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.05 min Scan# 2034

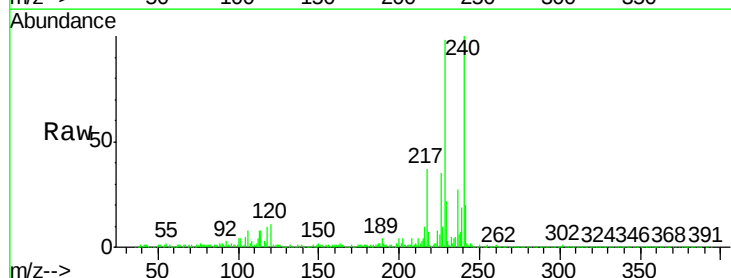
Delta R.T. 0.01 min

Lab File: BF118630.D

Acq: 21 Jan 2020 10:50

Tgt Ion:240 Resp: 830843

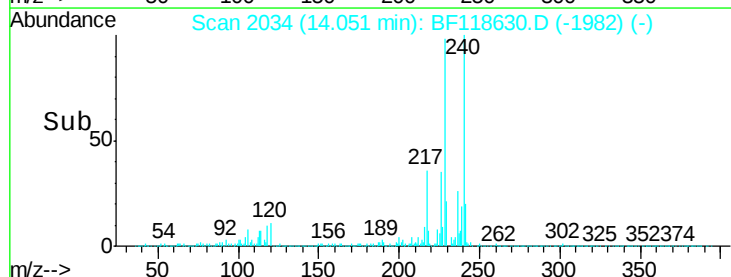
Ion	Ratio	Lower	Upper
240	100		
120	11.1	8.9	13.3
236	27.1	21.5	32.3



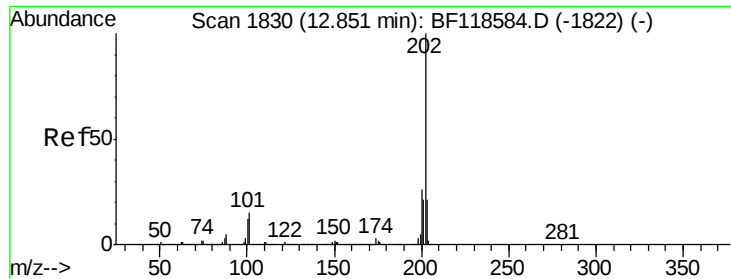
Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



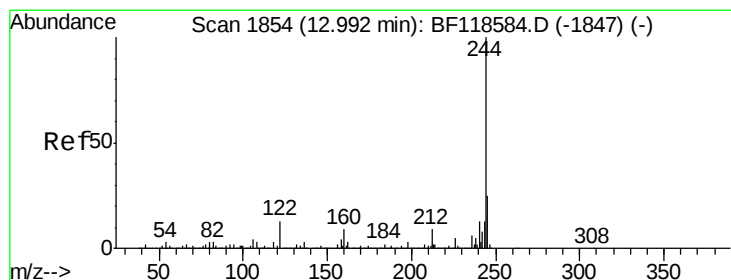
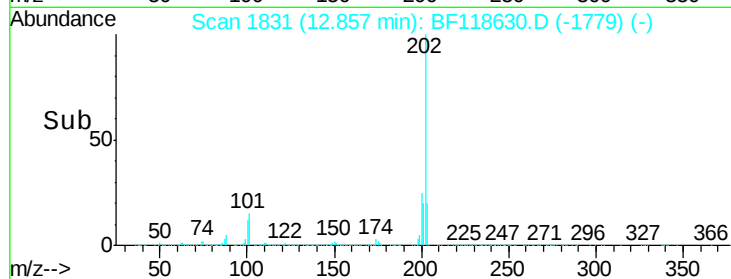
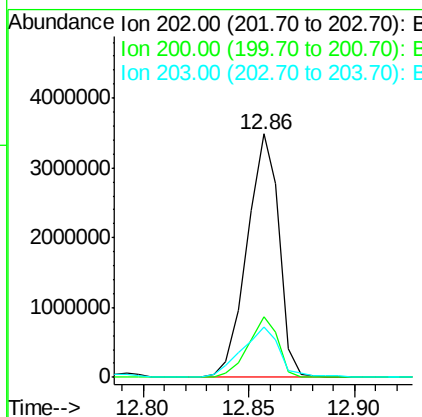
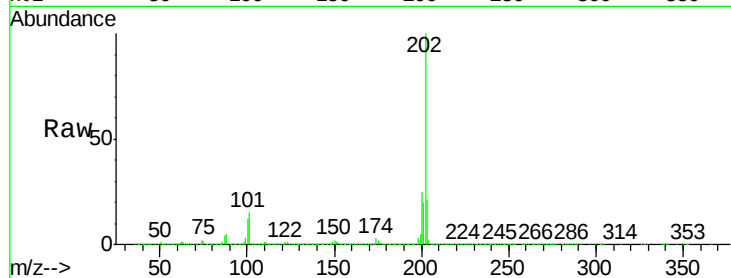
Time-->



#78
Pvrene
Concen: 64.637 ng
RT: 12.86 min Scan# 1831
Delta R.T. 0.01 min
Lab File: BF118630.D
Acq: 21 Jan 2020 10:50

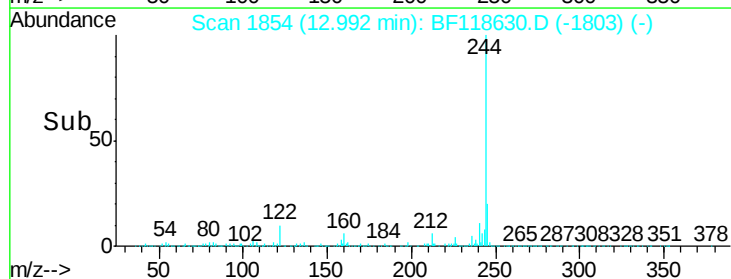
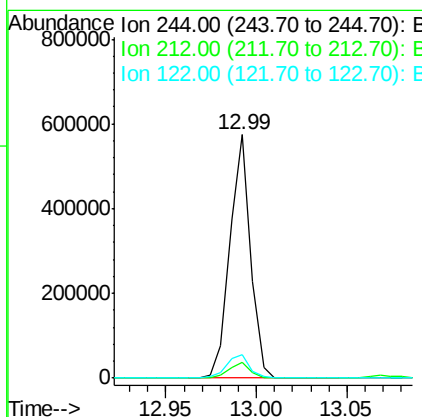
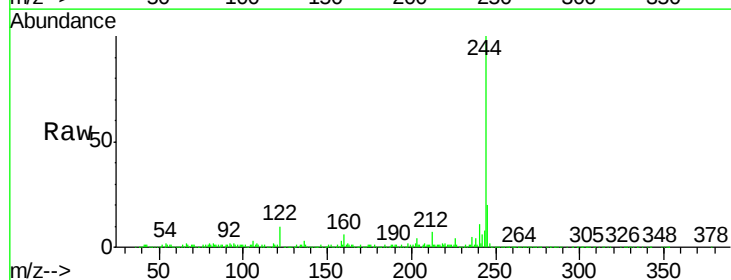
Instrument :
BNA_F
ClientSampleId :

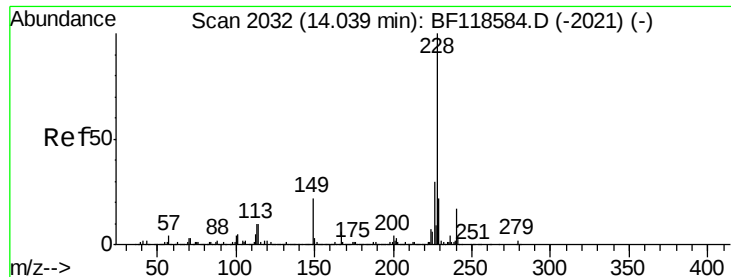
Tot Ion:202 Resp: 3645962
Ion Ratio Lower Upper
202 100
200 24.8 20.6 31.0
203 20.7 16.8 25.2



#79
Terphenyl-d14
Concen: 11.926 ng
RT: 12.99 min Scan# 1854
Delta R.T. 0.00 min
Lab File: BF118630.D
Acq: 21 Jan 2020 10:50

Tgt Ion:244 Resp: 454309
Ion Ratio Lower Upper
244 100
212 6.7 7.0 10.4#
122 9.6 10.7 16.1#

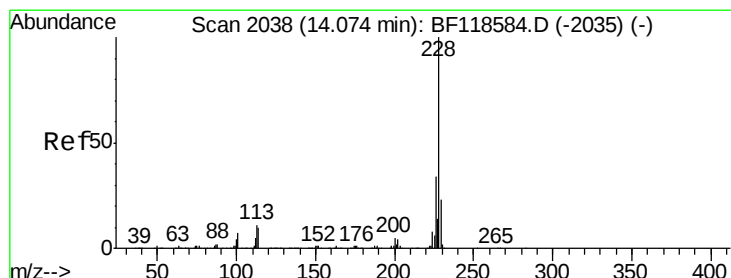
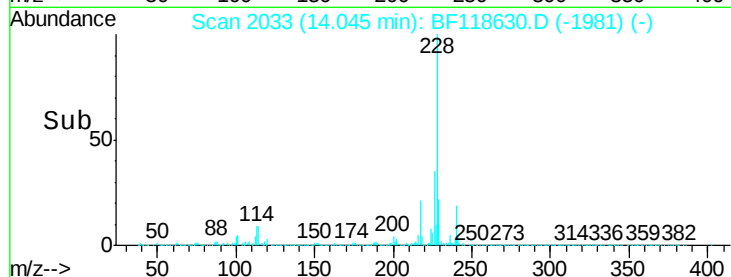
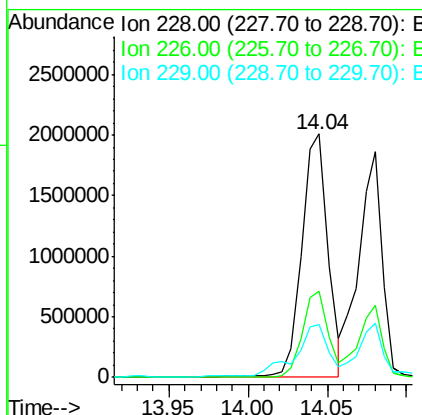
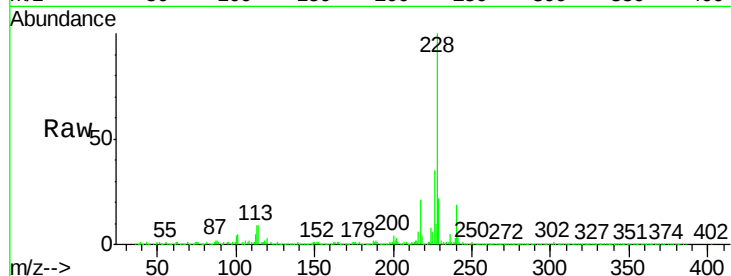




#81
Benzo(a)anthracene
Concen: 45.568 ng
RT: 14.04 min Scan# 2033
Delta R.T. 0.01 min
Lab File: BF118630.D
Acq: 21 Jan 2020 10:50

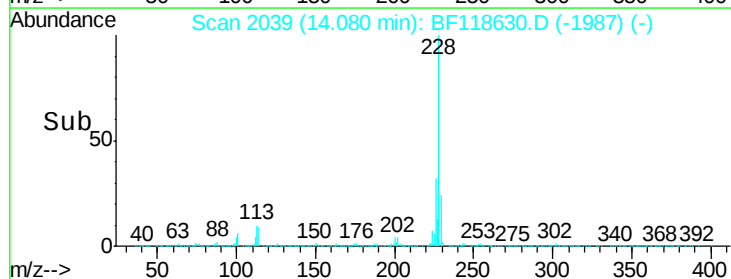
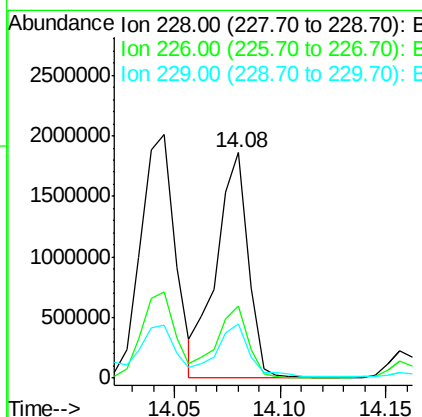
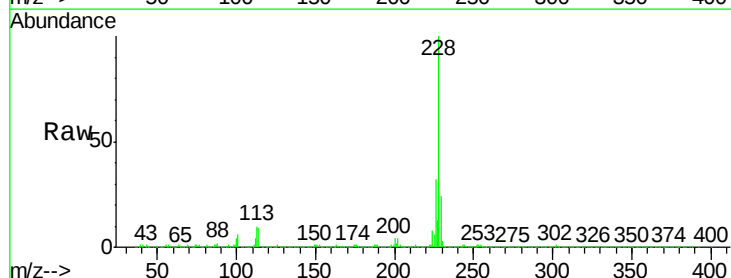
Instrument :
BNA_F
ClientSampleId :

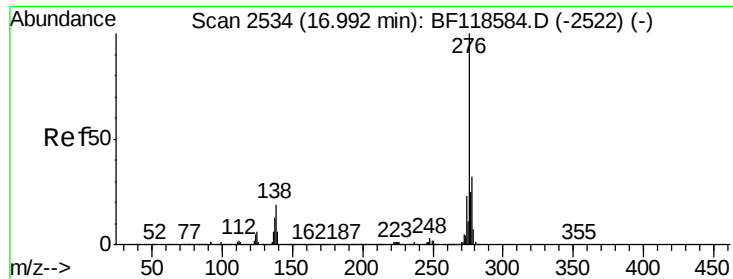
Tot Ion:228 Resp: 2277470
Ion Ratio Lower Upper
228 100
226 35.2 24.1 36.1
229 21.9 17.6 26.4



#83
Chrysene
Concen: 40.138 ng
RT: 14.08 min Scan# 2039
Delta R.T. 0.01 min
Lab File: BF118630.D
Acq: 21 Jan 2020 10:50

Tgt Ion:228 Resp: 1922629
Ion Ratio Lower Upper
228 100
226 32.1 27.4 41.0
229 23.8 18.3 27.5

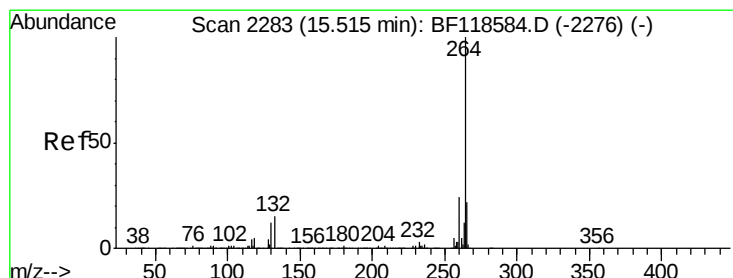
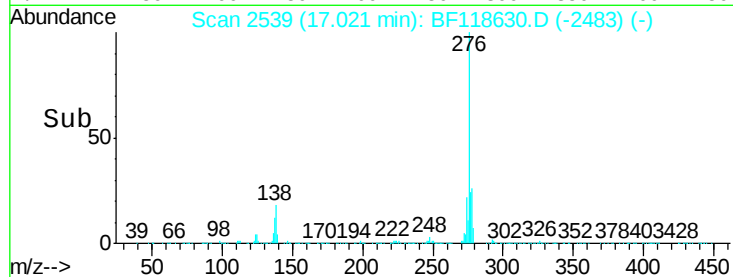
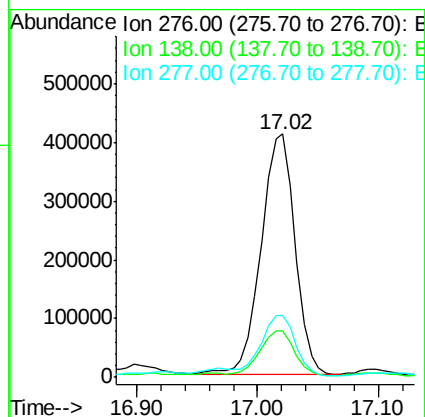
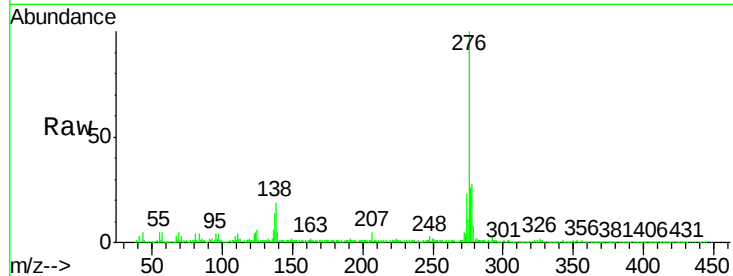




#86
Indeno(1,2,3-cd)pyrene
Concen: 19.357 ng
RT: 17.02 min Scan# 2539
Delta R.T. 0.03 min
Lab File: BF118630.D
Acq: 21 Jan 2020 10:50

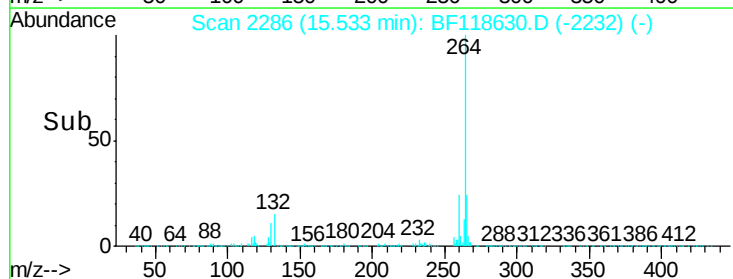
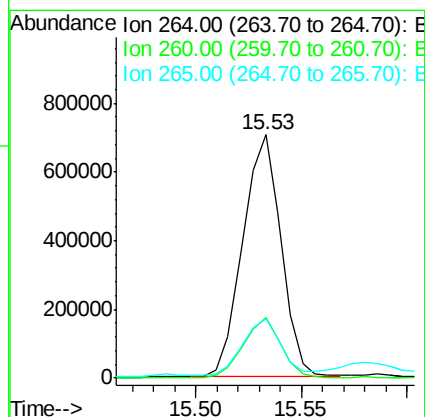
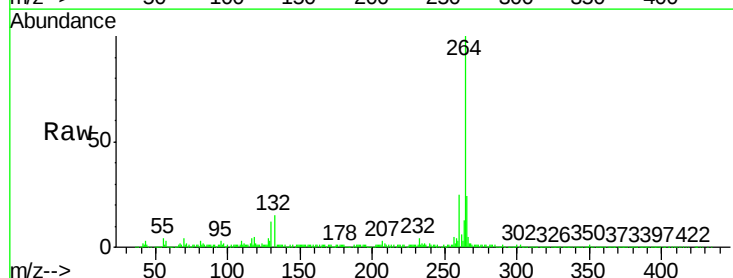
Instrument :
BNA_F
ClientSampleId :

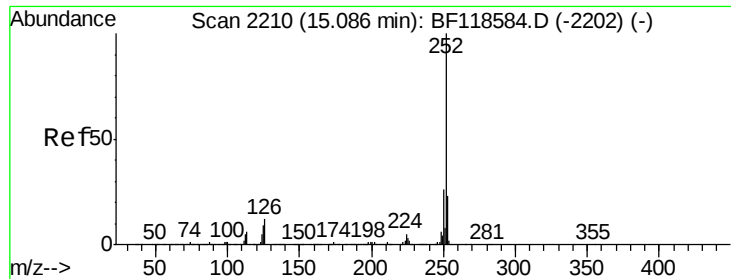
Tot Ion:276 Resp: 805671
Ion Ratio Lower Upper
276 100
138 19.0 17.2 25.8
277 25.2 20.5 30.7



#87
Perylene-d12
Concen: 20.000 ng
RT: 15.53 min Scan# 2286
Delta R.T. 0.02 min
Lab File: BF118630.D
Acq: 21 Jan 2020 10:50

Tgt Ion:264 Resp: 886580
Ion Ratio Lower Upper
264 100
260 24.7 19.6 29.4
265 24.4 17.7 26.5





#88

Benzo(b)fluoranthene

Concen: 58.774 ng

RT: 15.10 min Scan# 2213

Delta R.T. 0.02 min

Lab File: BF118630.D

Acq: 21 Jan 2020 10:50

Instrument :

BNA_F

ClientSampleId :

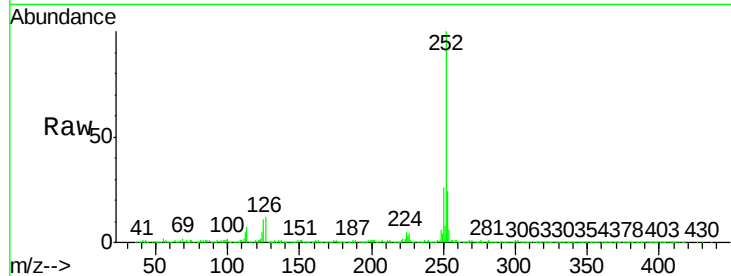
Tot Ion:252 Resp: 3275347

Ion Ratio Lower Upper

252 100

253 23.6 18.7 28.1

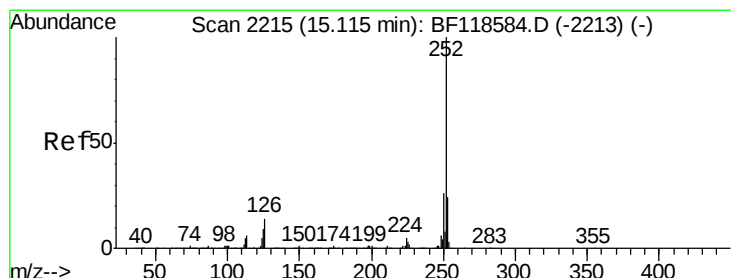
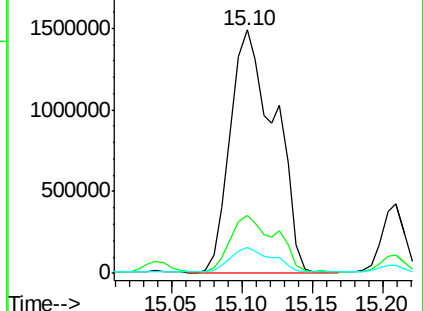
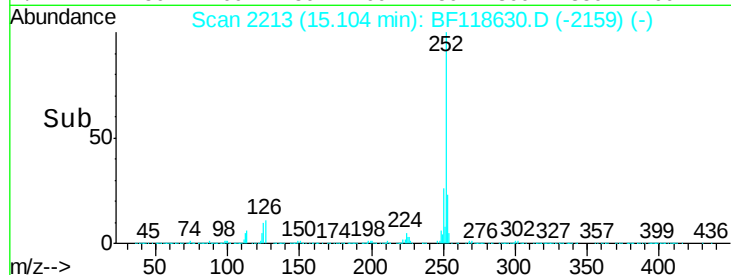
125 10.7 7.3 10.9



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: 63.439 ng

RT: 15.10 min Scan# 2213

Delta R.T. -0.01 min

Lab File: BF118630.D

Acq: 21 Jan 2020 10:50

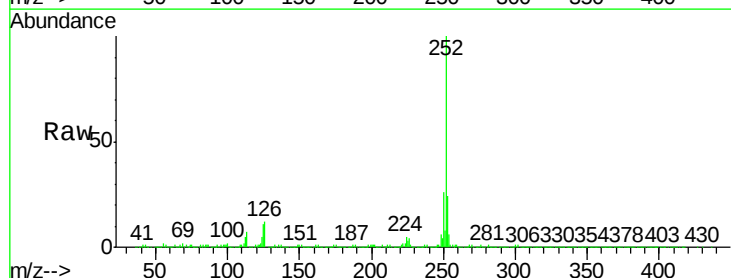
Tgt Ion:252 Resp: 3275347

Ion Ratio Lower Upper

252 100

253 23.6 19.0 28.4

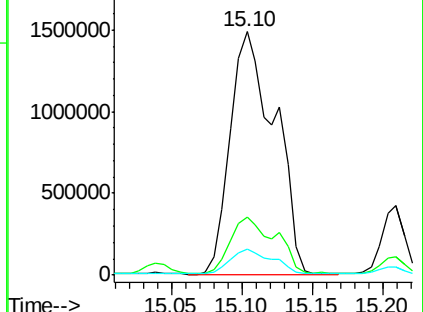
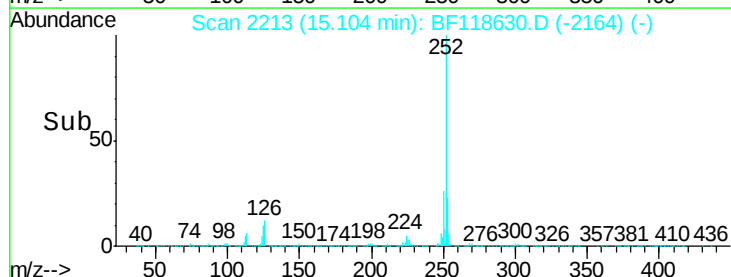
125 10.7 7.6 11.4

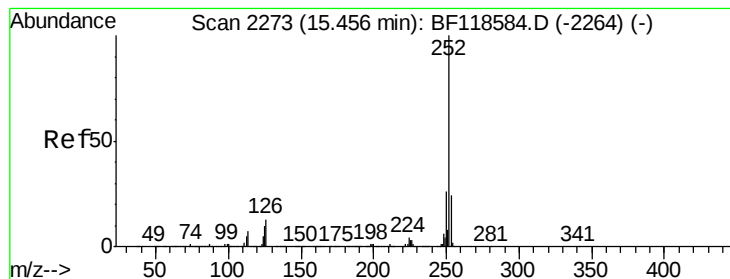


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Benzo(a)pyrene

Concen: 34.606 ng

RT: 15.47 min Scan# 2276

Delta R.T. 0.02 min

Lab File: BF118630.D

Acq: 21 Jan 2020 10:50

Instrument :

BNA_F

ClientSampleId :

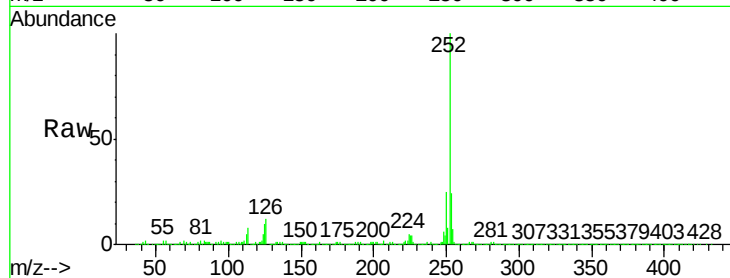
Tot Ion:252 Resp: 1663619

Ion Ratio Lower Upper

252 100

253 23.5 18.8 28.2

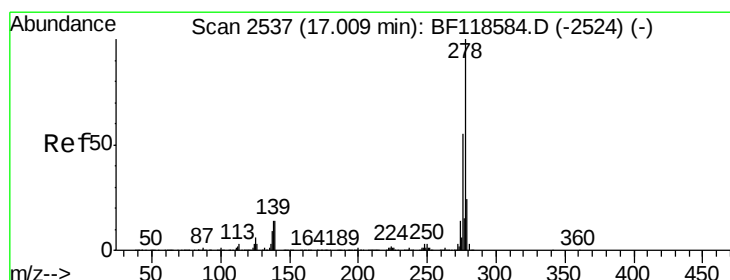
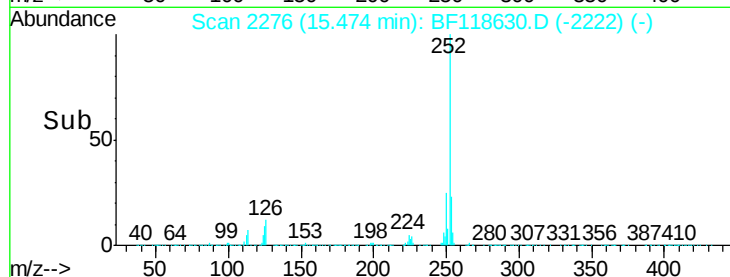
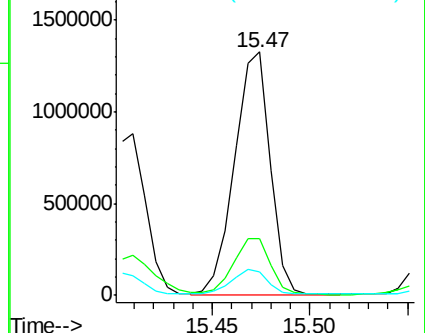
125 9.8 7.8 11.6



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91

Dibenzo(a,h)anthracene

Concen: 5.252 ng

RT: 17.03 min Scan# 2540

Delta R.T. 0.02 min

Lab File: BF118630.D

Acq: 21 Jan 2020 10:50

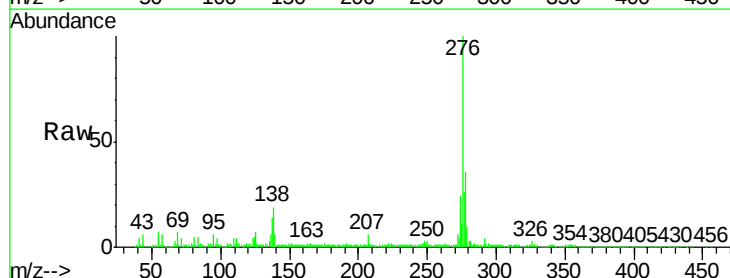
Tgt Ion:278 Resp: 223342

Ion Ratio Lower Upper

278 100

139 17.8 11.4 17.0#

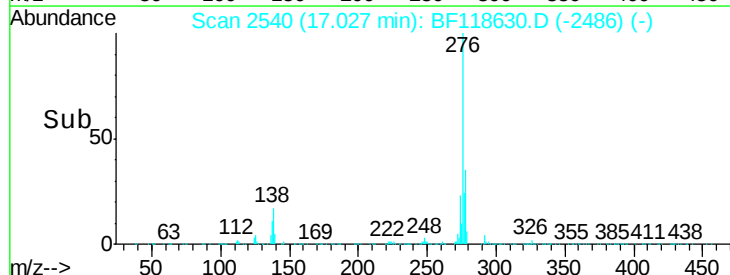
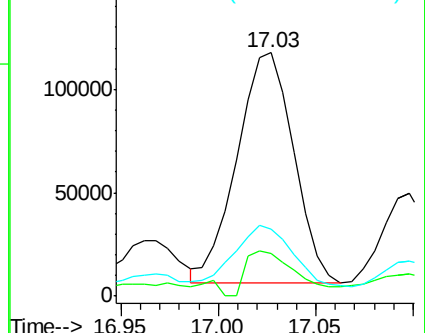
279 27.8 19.0 28.6

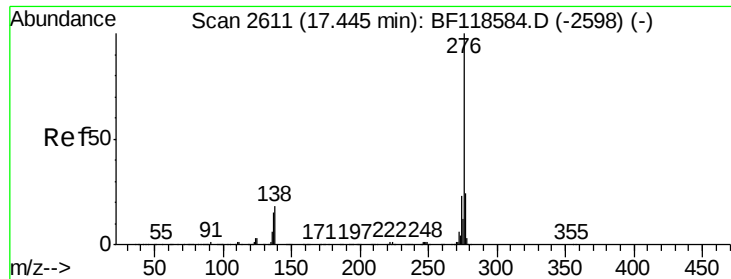


Abundance Ion 278.00 (277.70 to 278.70): E

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: 16.804 ng
 RT: 17.47 min Scan# 2615
 Delta R.T. 0.02 min
 Lab File: BF118630.D
 Acq: 21 Jan 2020 10:50

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.8	18.9	28.3
138	18.9	14.4	21.6

