

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF022020\
 Data File : BF118986.D
 Acq On : 21 Feb 2020 4:20
 Operator : CG/JU
 Sample : L1552-03
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Feb 21 05:47:15 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 20 17:40:17 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.76	152	152544	20.00	ng	0.00
21) Naphthalene-d8	8.04	136	519855	20.00	ng	0.00
39) Acenaphthene-d10	9.79	164	235391	20.00	ng	0.00
64) Phenanthrene-d10	11.27	188	402209	20.00	ng	0.00
76) Chrysene-d12	13.92	240	368638	20.00	ng	0.00
87) Perylene-d12	15.35	264	328240	20.00	ng	0.02

System Monitoring Compounds

5) 2-Fluorophenol	5.39	112	295683	32.39	ng	0.00
7) Phenol-d6	6.40	99	801014	72.16	ng	0.00
23) Nitrobenzene-d5	7.32	82	573403	58.24	ng	0.00
42) 2,4,6-Tribromophenol	10.58	330	22543	7.32	ng	0.00
45) 2-Fluorobiphenyl	9.12	172	1070425	66.99	ng	0.00
79) Terphenyl-d14	12.86	244	1179686	55.10	ng	0.00

Target Compounds

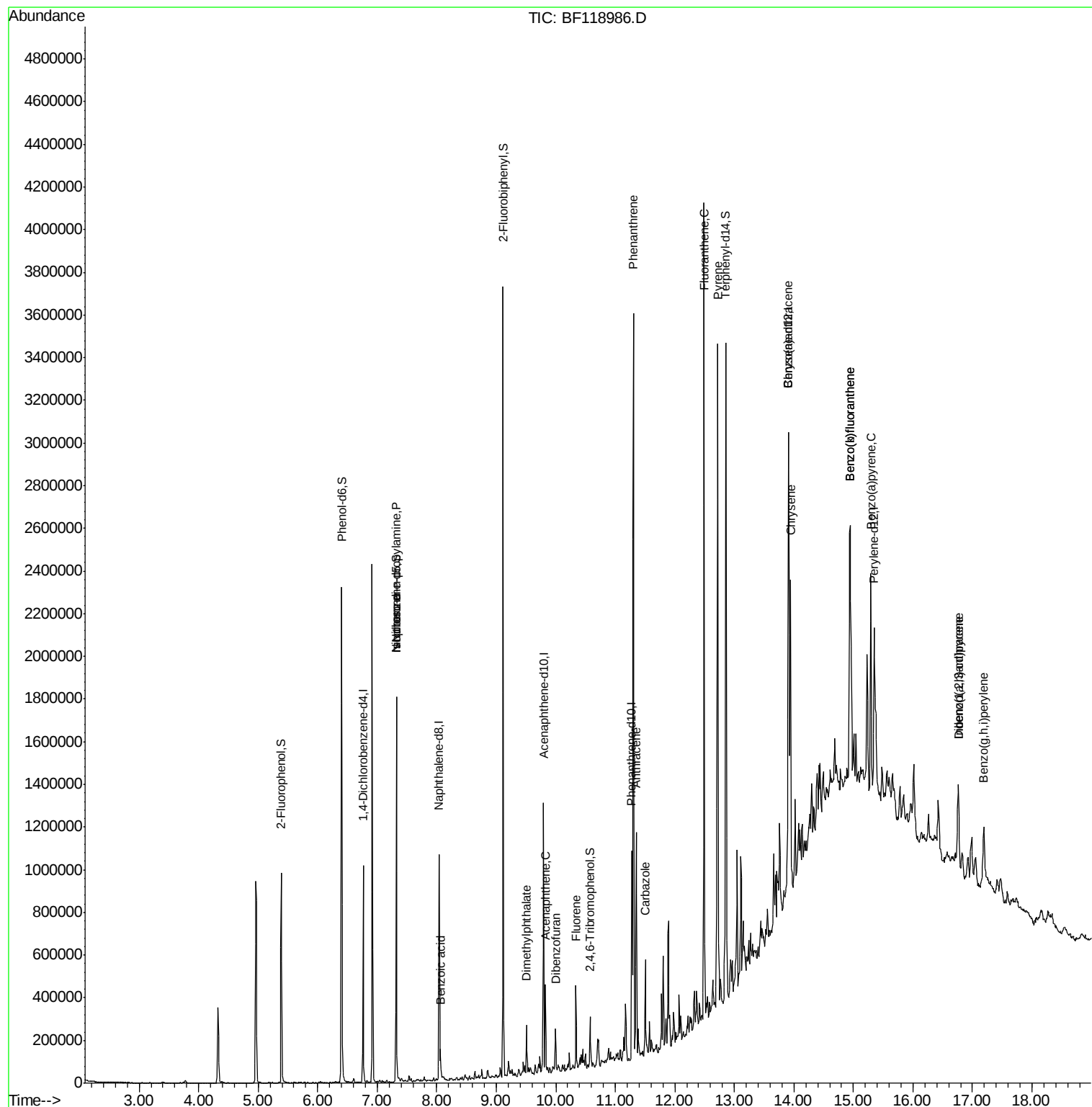
						Qvalue
19) n-Nitroso-di-n-propylamine	7.32	70	79052	12.221	ng	# 76
25) Isophorone	7.32	82	573396	33.534	ng	# 63
32) Benzoic acid	8.07	122	583	6.778	ng	# 1
50) Dimethylphthalate	9.51	163	77658	4.314	ng	98
52) Acenaphthene	9.83	154	85151	6.378	ng	98
55) Dibenzofuran	10.00	168	62117	3.117	ng	94
58) Fluorene	10.34	166	102378	6.611	ng	98
71) Phenanthrene	11.30	178	1266984	57.762	ng	99
72) Anthracene	11.35	178	385422	17.586	ng	99
73) Carbazole	11.50	167	182681	9.356	ng	98
75) Fluoranthene	12.49	202	1618042	69.495	ng	99
78) Pylene	12.72	202	1370715	46.306	ng	100
81) Benzo(a)anthracene	13.91	228	723553	28.806	ng	97
83) Chrysene	13.94	228	638975	25.531	ng	96
86) Indeno(1,2,3-cd)pyrene	16.76	276	248609	10.259	ng	# 94
88) Benzo(b)fluoranthene	14.94	252	958178	44.287	ng	# 97
89) Benzo(k)fluoranthene	14.94	252	958178	47.789	ng	# 96
90) Benzo(a)pyrene	15.29	252	485666	24.872	ng	# 95
91) Dibenzo(a,h)anthracene	16.76	278	64405	3.749	ng	# 76
92) Benzo(a,h,i)perylene	17.19	276	228689	13.471	ng	97

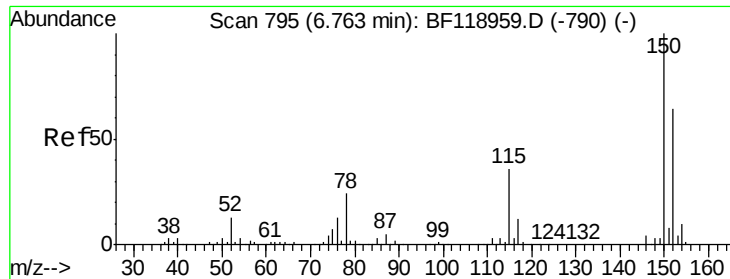
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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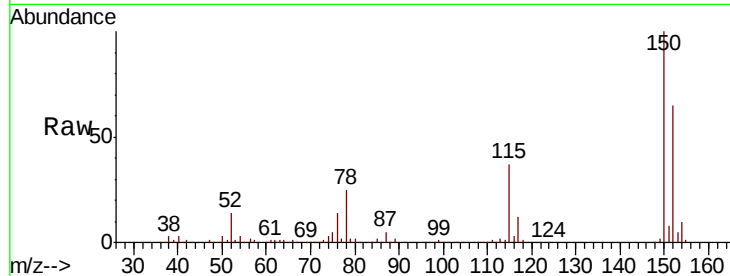


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.76 min Scan# 795
Delta R.T. -0.00 min
Lab File: BF118986.D
Acq: 21 Feb 2020 4:20

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.4	124.3	186.5
115	57.3	44.6	67.0

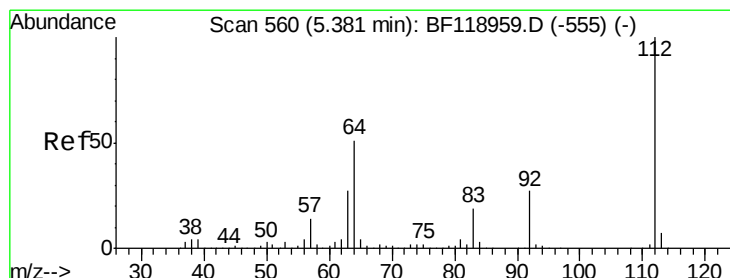
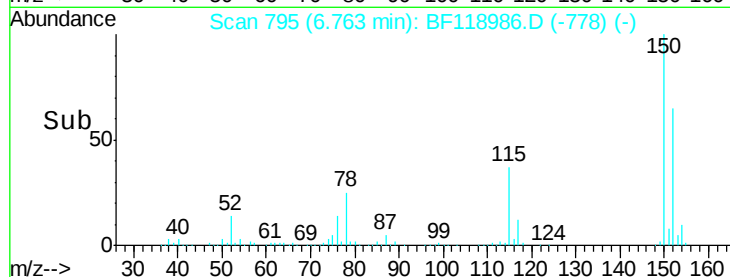
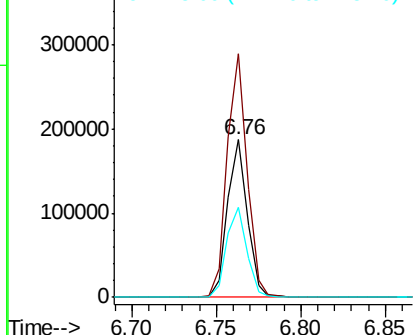


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

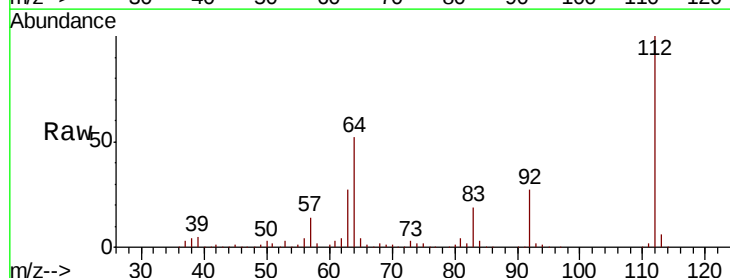
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 32.393 ng
RT: 5.39 min Scan# 561
Delta R.T. 0.01 min
Lab File: BF118986.D
Acq: 21 Feb 2020 4:20

Tgt Ion	Ratio	Lower	Upper
112	100		
64	52.2	40.4	60.6
63	27.1	21.3	31.9

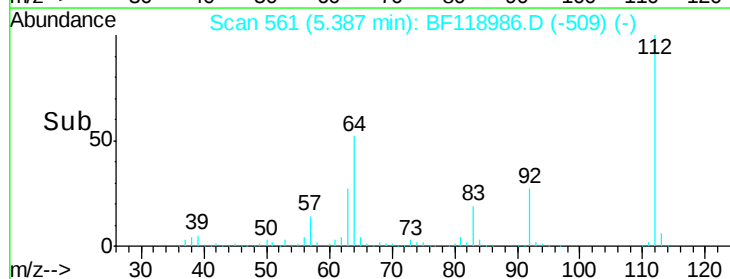
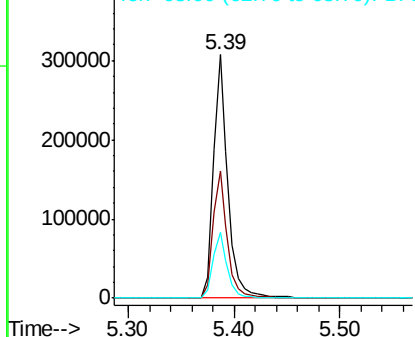


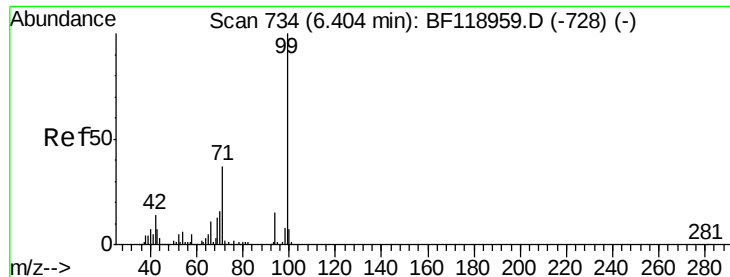
Abundance

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: 72.155 ng

RT: 6.40 min Scan# 734

Delta R.T. -0.00 min

Lab File: BF118986.D

Acq: 21 Feb 2020 4:20

Instrument :

BNA_F

ClientSampled :

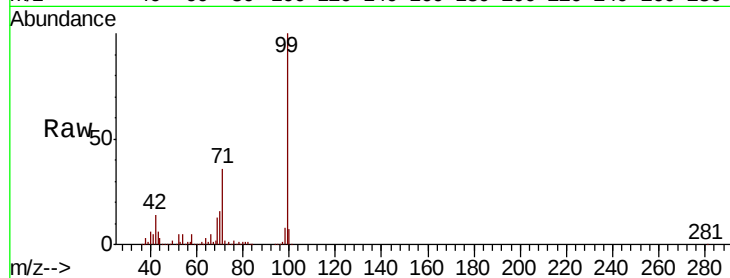
Tot Ion: 99 Resp: 801014

Ion Ratio Lower Upper

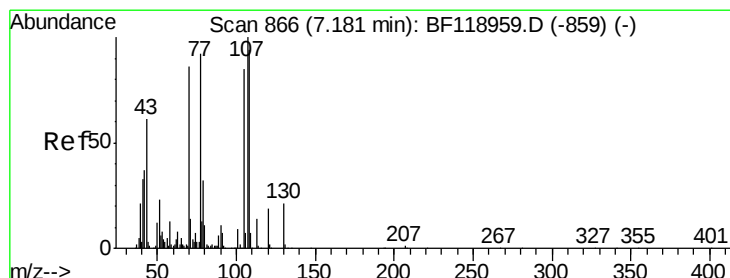
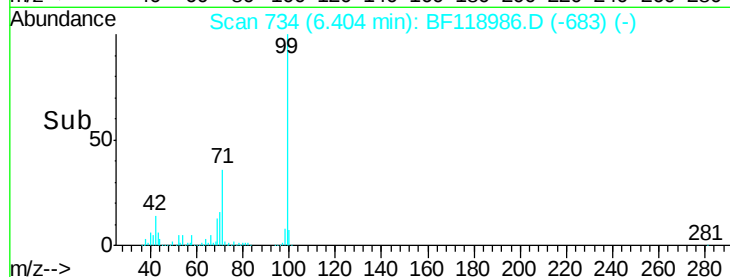
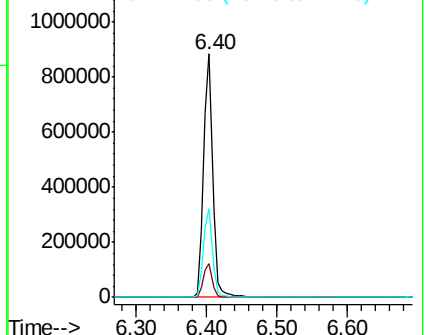
99 100

42 13.7 11.4 17.0

71 36.3 29.8 44.6



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



#19

n-Nitroso-di-n-propylamine

Concen: 12.221 ng

RT: 7.32 min Scan# 890

Delta R.T. 0.14 min

Lab File: BF118986.D

Acq: 21 Feb 2020 4:20

Tgt Ion: 70 Resp: 79052

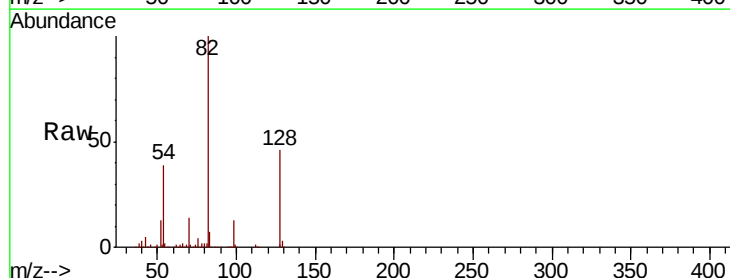
Ion Ratio Lower Upper

70 100

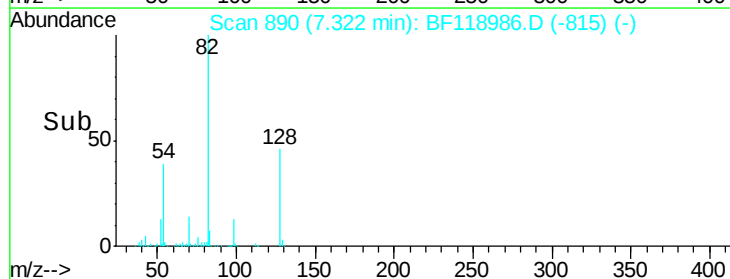
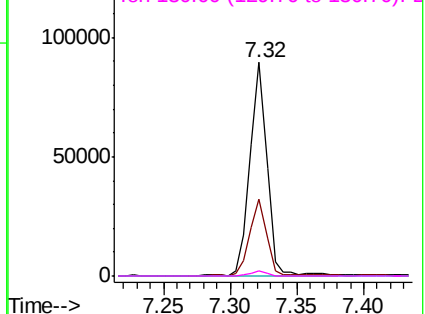
42 36.0 34.6 51.8

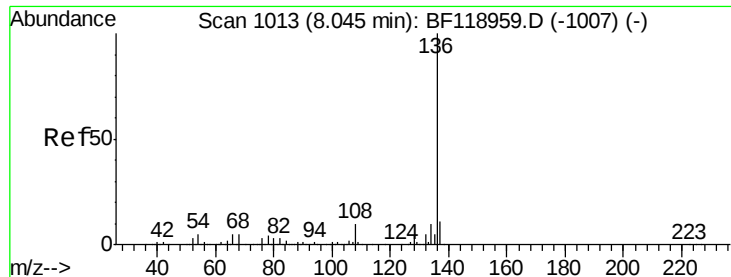
101 0.0 8.1 12.1#

130 2.5 19.4 29.2#



Abundance Ion 70.00 (69.70 to 70.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 101.00 (100.70 to 101.70): BF1
Ion 130.00 (129.70 to 130.70): BF1





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.04 min Scan# 1012

Delta R.T. -0.01 min

Lab File: BF118986.D

Acq: 21 Feb 2020 4:20

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 519855

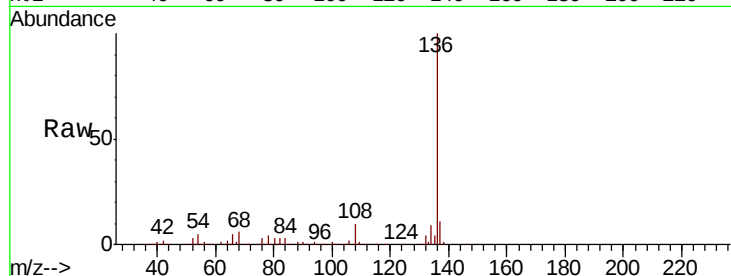
Ion Ratio Lower Upper

136 100

137 11.4 8.9 13.3

54 5.4 3.8 5.6

68 5.8 4.2 6.2

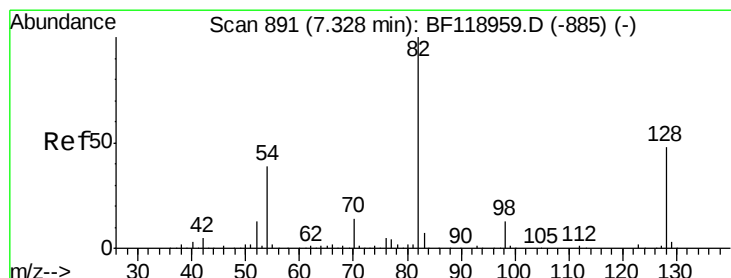
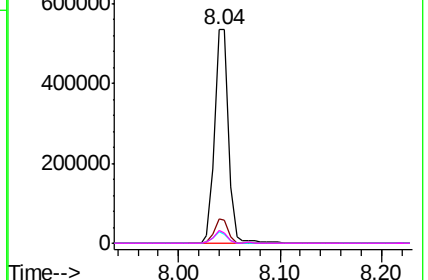
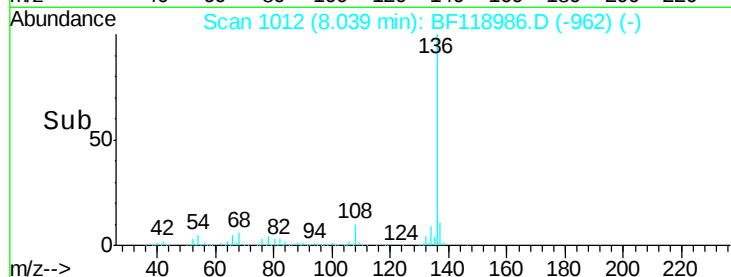


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#23

Nitrobenzene-d5

Concen: 58.239 ng

RT: 7.32 min Scan# 890

Delta R.T. -0.01 min

Lab File: BF118986.D

Acq: 21 Feb 2020 4:20

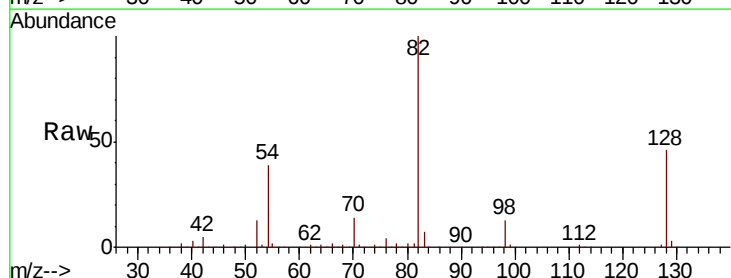
Tgt Ion: 82 Resp: 573403

Ion Ratio Lower Upper

82 100

128 46.4 38.2 57.2

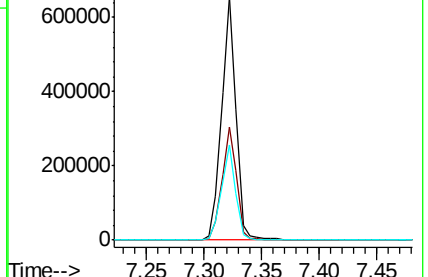
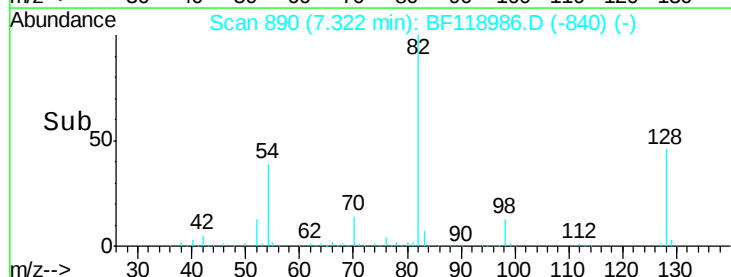
54 38.9 31.3 46.9

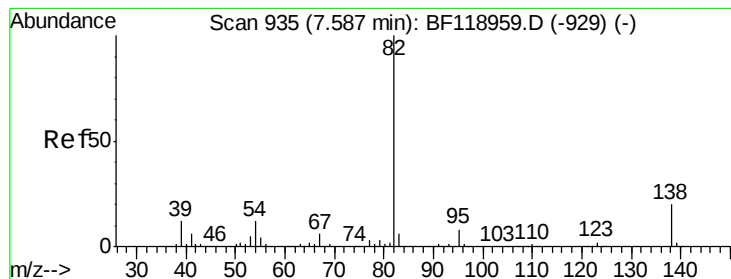


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 33.534 ng

RT: 7.32 min Scan# 890

Delta R.T. -0.26 min

Lab File: BF118986.D

Acq: 21 Feb 2020 4:20

Instrument :

BNA_F

ClientSampleId :

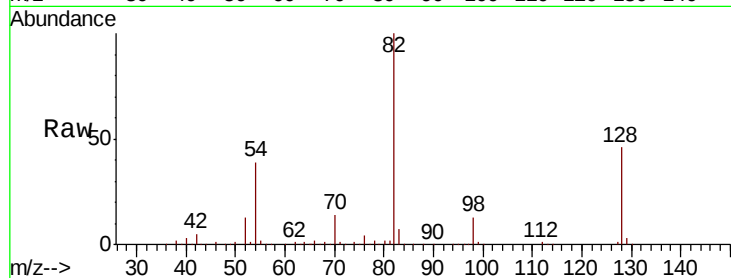
Tot Ion: 82 Resp: 573396

Ion Ratio Lower Upper

82 100

95 0.1 6.1 9.1#

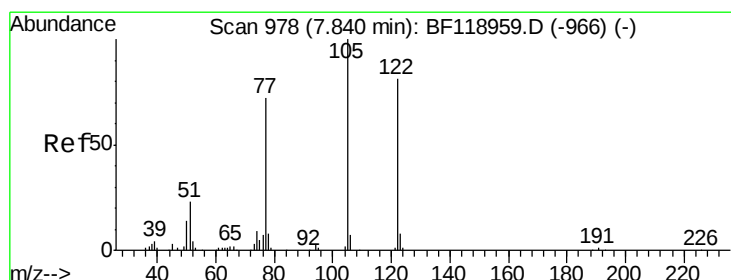
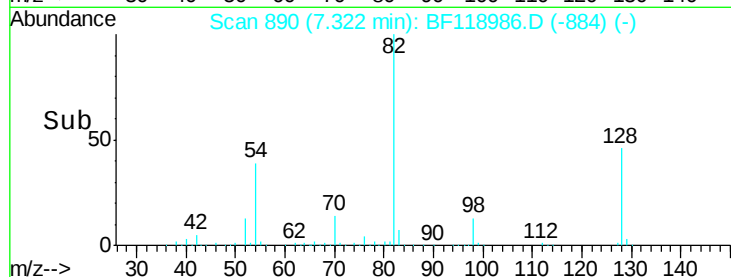
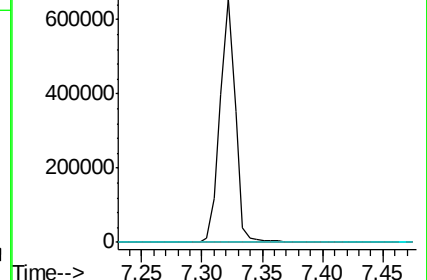
138 0.0 15.8 23.6#



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1



#32

Benzoic acid

Concen: 6.778 ng

RT: 8.07 min Scan# 1017

Delta R.T. 0.23 min

Lab File: BF118986.D

Acq: 21 Feb 2020 4:20

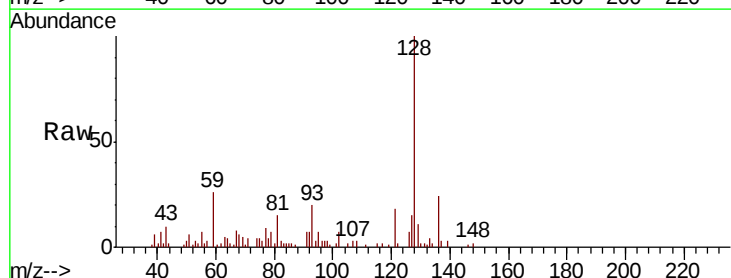
Tgt Ion: 122 Resp: 583

Ion Ratio Lower Upper

122 100

105 93.1 102.2 142.2#

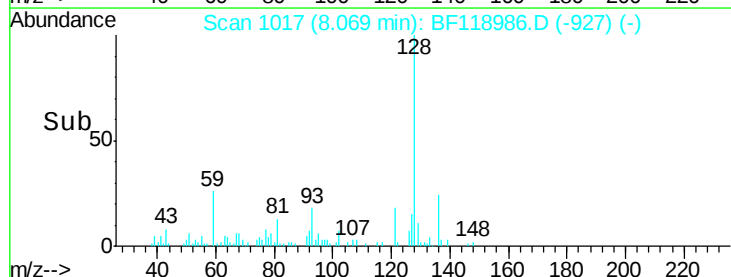
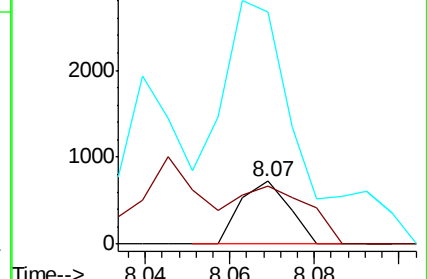
77 368.9 68.6 108.6#

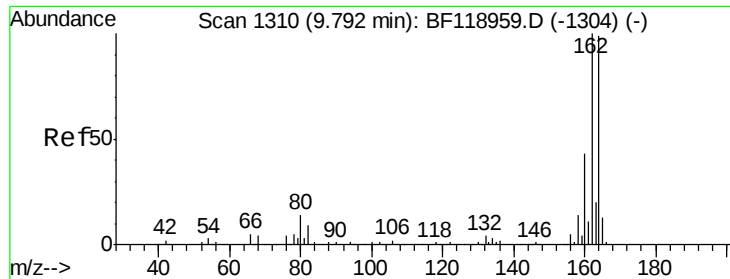


Abundance Ion 122.00 (121.70 to 122.70): BF1

Ion 105.00 (104.70 to 105.70): BF1

Ion 77.00 (76.70 to 77.70): BF1

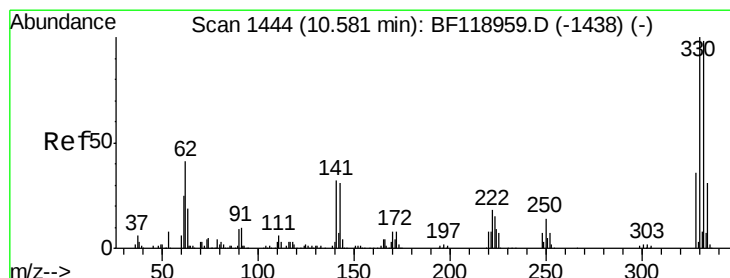
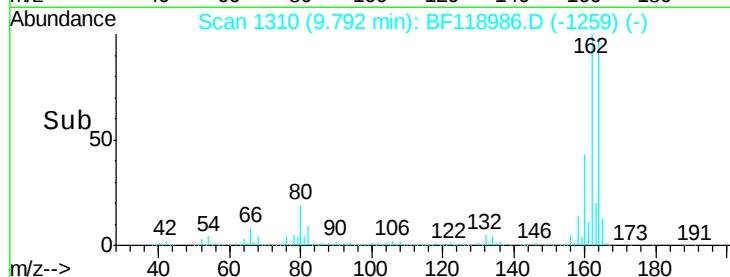
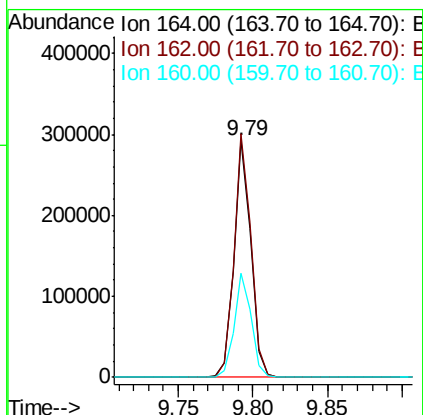
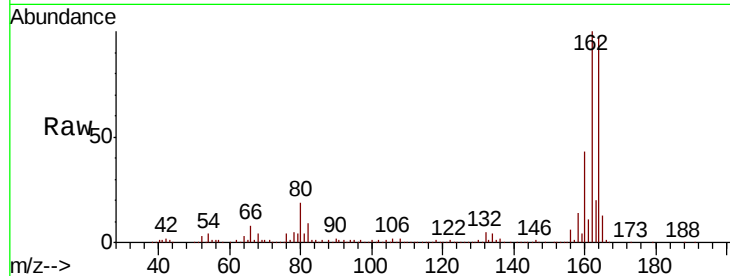




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.79 min Scan# 1310
Delta R.T. -0.00 min
Lab File: BF118986.D
Acq: 21 Feb 2020 4:20

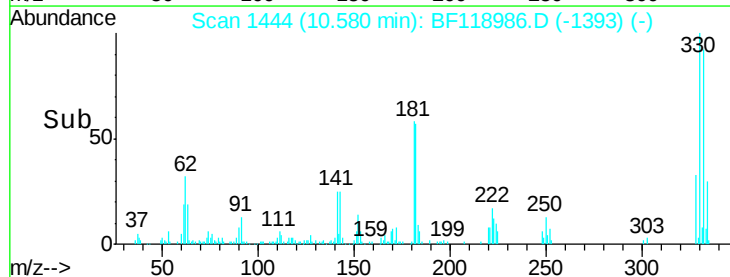
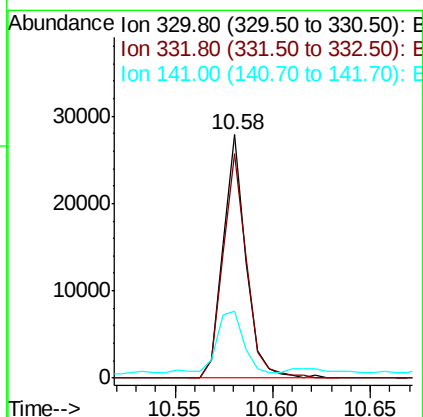
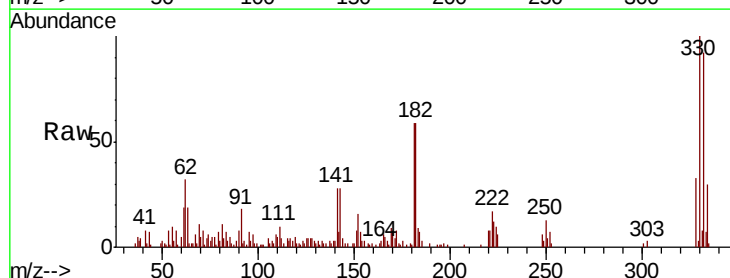
Instrument :
BNA_F
ClientSampleId :

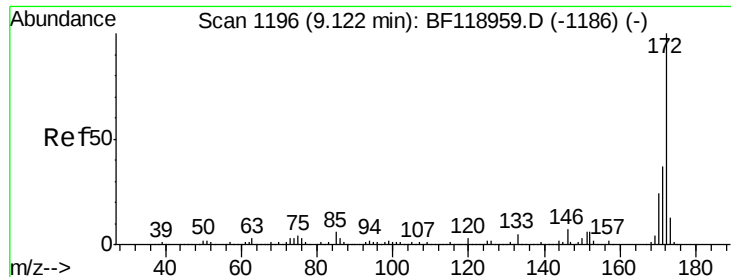
Tot Ion	Ratio	Lower	Upper
164	100		
162	102.8	81.2	121.8
160	43.9	35.2	52.8



#42
2,4,6-Tribromophenol
Concen: 7.321 ng
RT: 10.58 min Scan# 1444
Delta R.T. -0.00 min
Lab File: BF118986.D
Acq: 21 Feb 2020 4:20

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.8	77.1	115.7
141	29.9	23.0	34.6



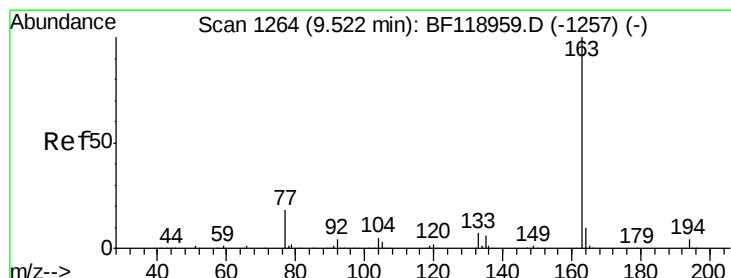
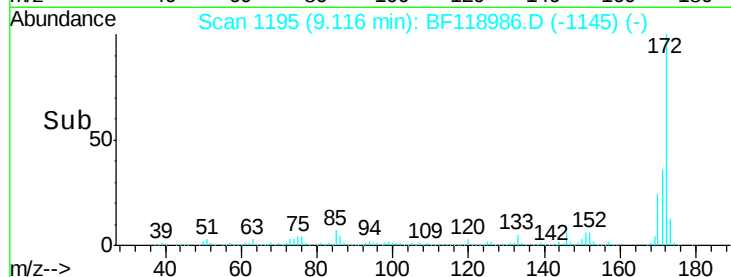
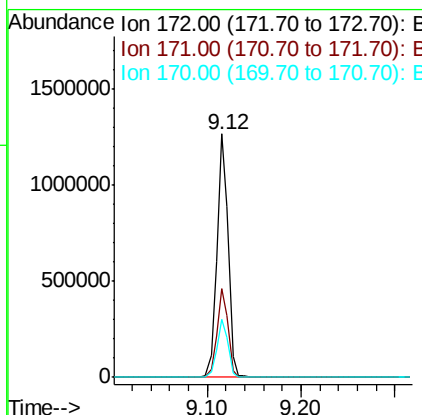
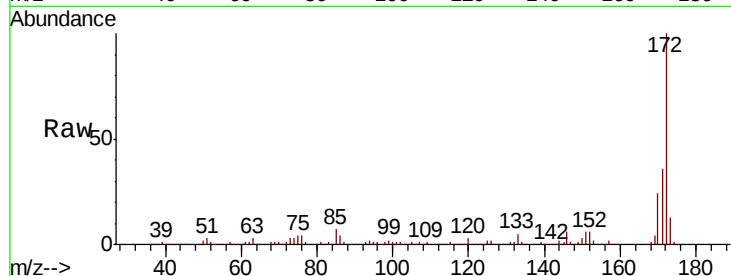


#45
 2-Fluorobiphenyl
 Concen: 66.992 ng
 RT: 9.12 min Scan# 1195
 Delta R.T. -0.01 min
 Lab File: BF118986.D
 Acq: 21 Feb 2020 4:20

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:172 Resp: 1070425

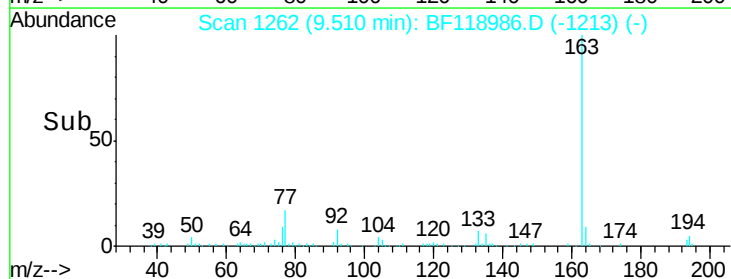
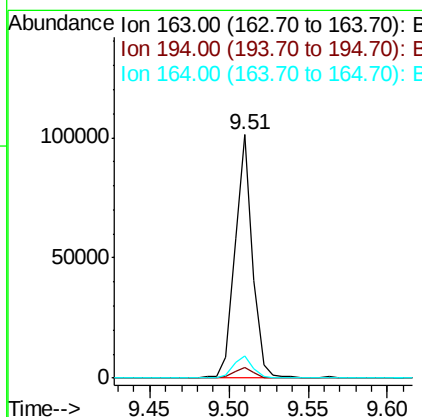
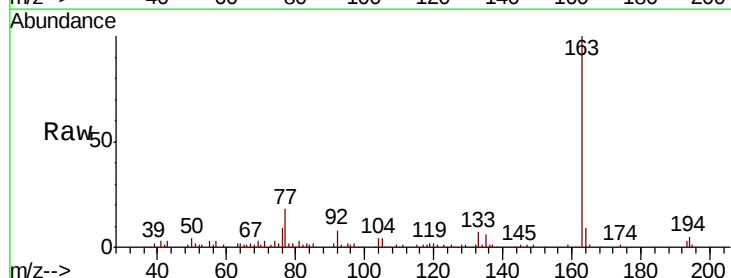
Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.4	44.2
170	23.8	19.6	29.4

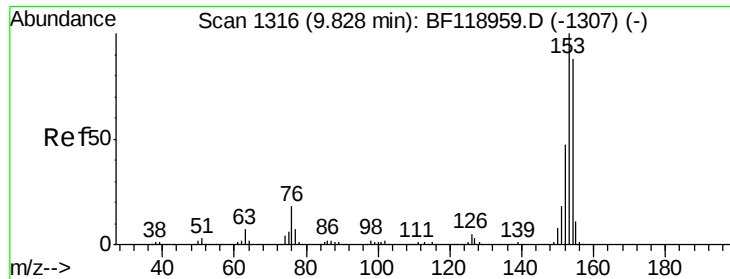


#50
 Dimethylphthalate
 Concen: 4.314 ng
 RT: 9.51 min Scan# 1262
 Delta R.T. -0.01 min
 Lab File: BF118986.D
 Acq: 21 Feb 2020 4:20

Tgt Ion:163 Resp: 77658

Ion	Ratio	Lower	Upper
163	100		
194	4.5	3.4	5.2
164	9.4	8.2	12.2





#52

Acenaphthene

Concen: 6.378 ng

RT: 9.83 min Scan# 1316

Delta R.T. -0.00 min

Lab File: BF118986.D

Acq: 21 Feb 2020 4:20

Instrument :

BNA_F

ClientSampleId :

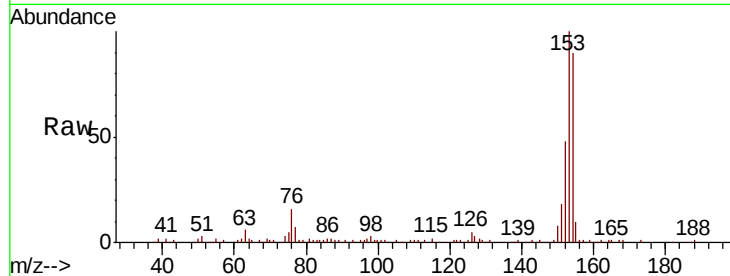
Tot Ion:154 Resp: 85151

Ion Ratio Lower Upper

154 100

153 111.0 90.4 135.6

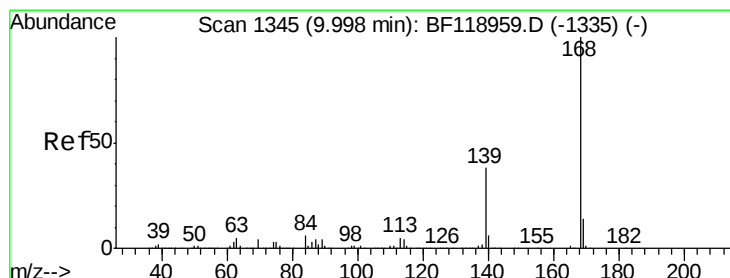
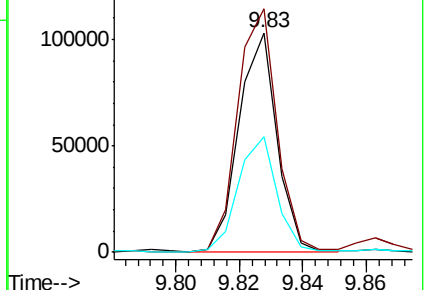
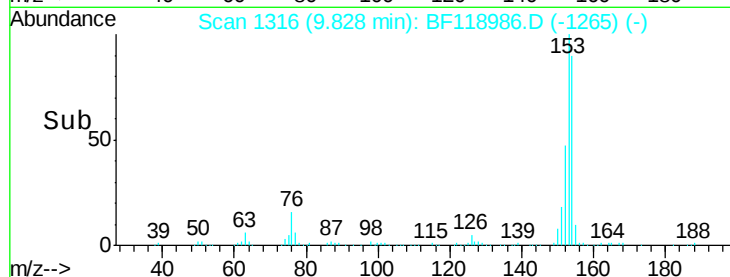
152 53.0 42.9 64.3



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: 3.117 ng

RT: 10.00 min Scan# 1345

Delta R.T. 0.00 min

Lab File: BF118986.D

Acq: 21 Feb 2020 4:20

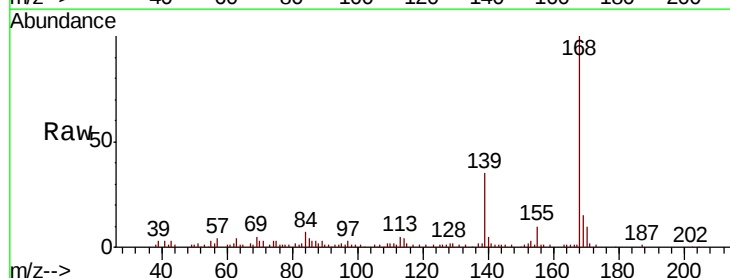
Tgt Ion:168 Resp: 62117

Ion Ratio Lower Upper

168 100

139 35.2 31.7 47.5

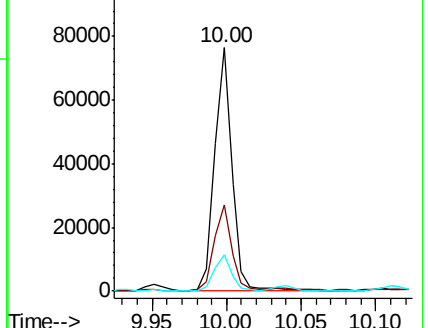
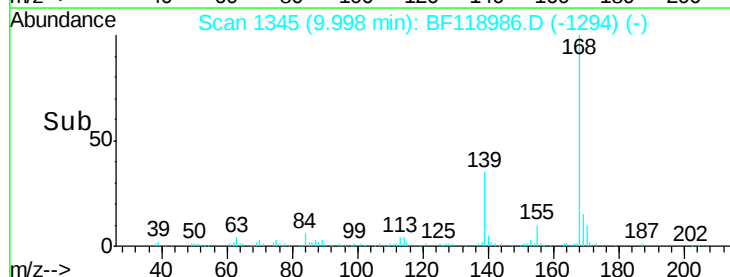
169 14.8 11.0 16.4

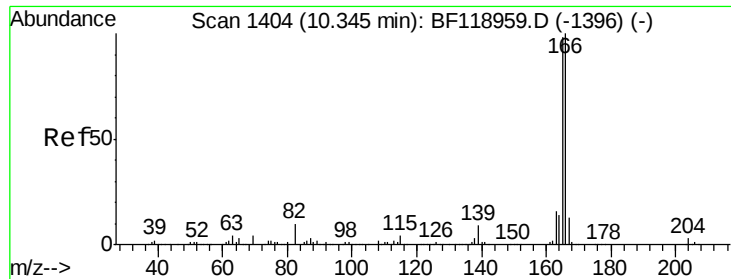


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#58

Fluorene

Concen: 6.611 ng

RT: 10.34 min Scan# 1403

Delta R.T. -0.01 min

Lab File: BF118986.D

Acq: 21 Feb 2020 4:20

Instrument :

BNA_F

ClientSampleId :

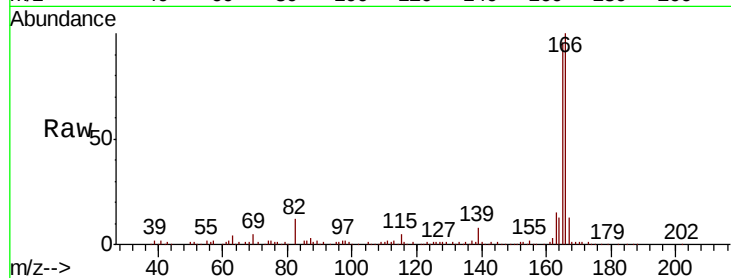
Tot Ion:166 Resp: 102378

Ion Ratio Lower Upper

166 100

165 95.6 78.2 117.4

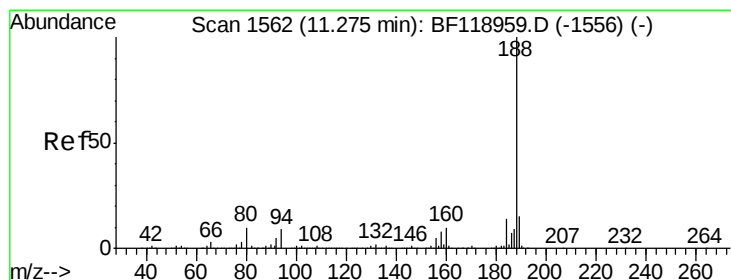
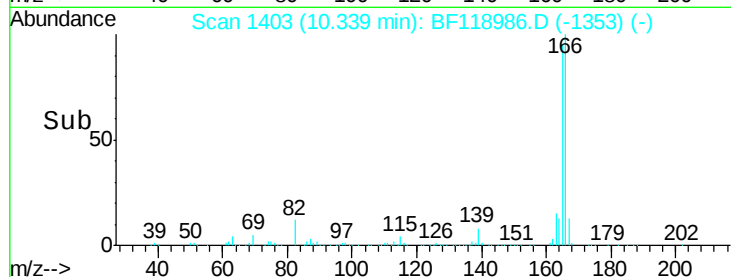
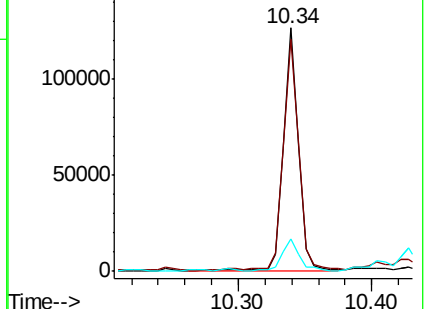
167 13.5 10.6 16.0



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: 11.27 min Scan# 1562

Delta R.T. -0.00 min

Lab File: BF118986.D

Acq: 21 Feb 2020 4:20

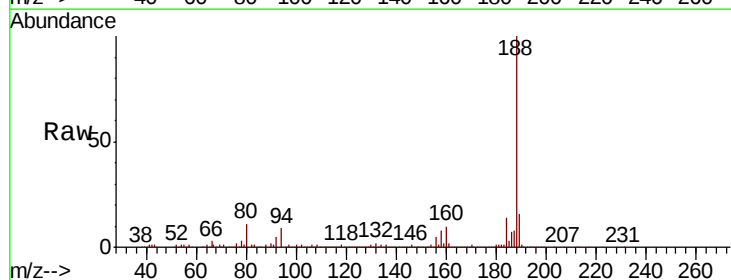
Tgt Ion:188 Resp: 402209

Ion Ratio Lower Upper

188 100

94 9.1 7.0 10.6

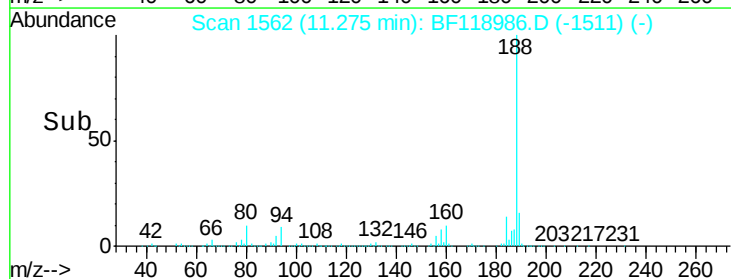
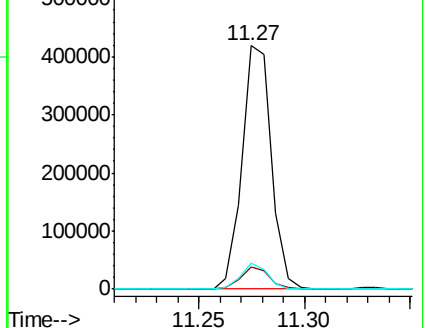
80 10.6 7.9 11.9

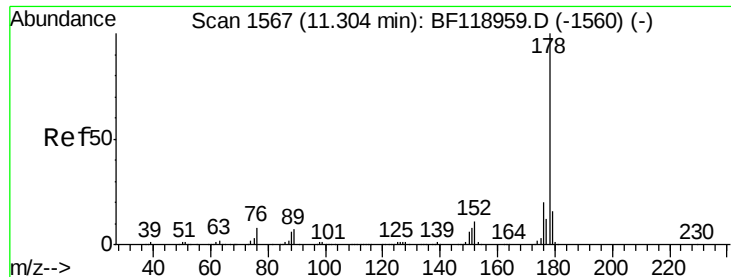


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

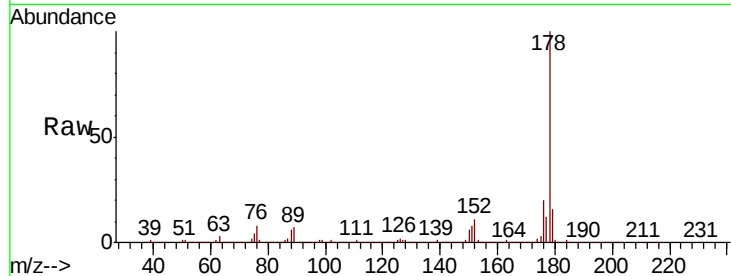




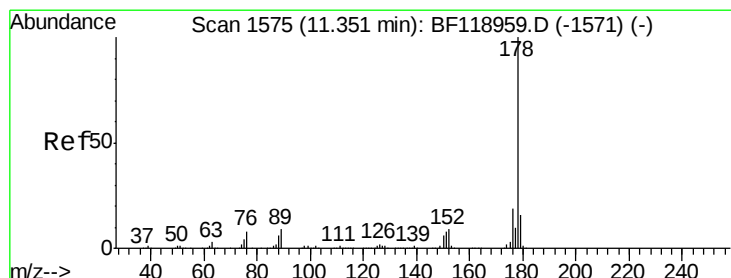
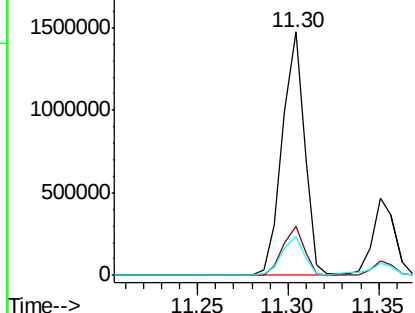
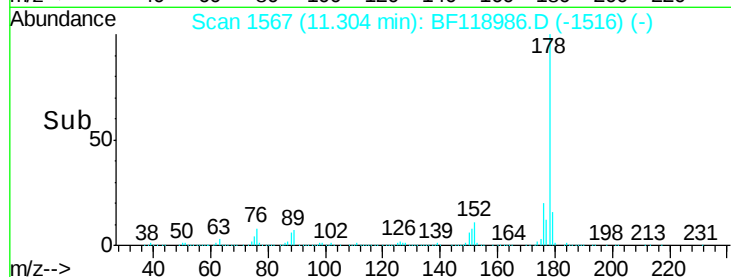
#71
Phenanthrene
Concen: 57.762 ng
RT: 11.30 min Scan# 1567
Delta R.T. -0.00 min
Lab File: BF118986.D
Acq: 21 Feb 2020 4:20

Instrument :
BNA_F
ClientSampleId :

Tot Ion:178 Resp: 1266984
Ion Ratio Lower Upper
178 100
176 19.9 15.6 23.4
179 15.9 12.6 18.8

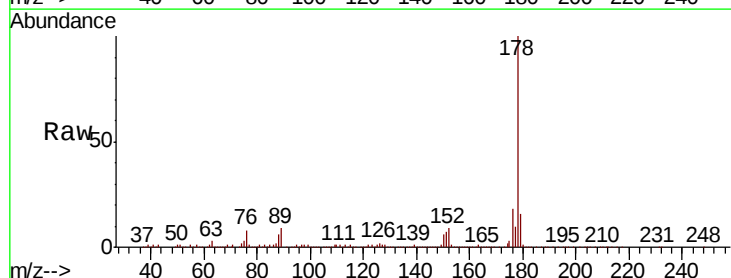


Abundance Ion 178.00 (177.70 to 178.70): E
2000000 Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

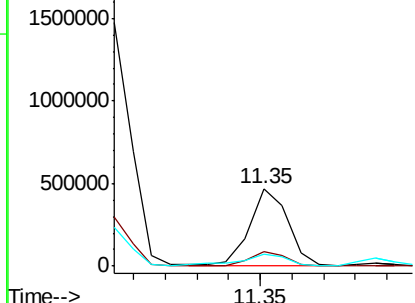
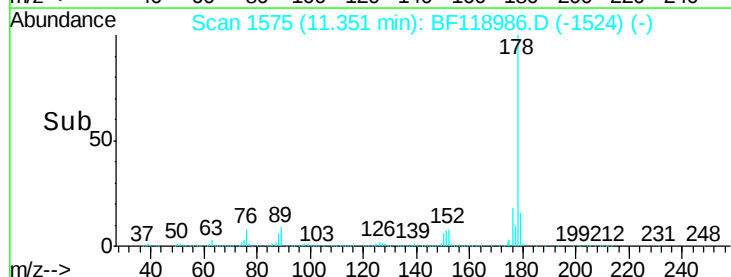


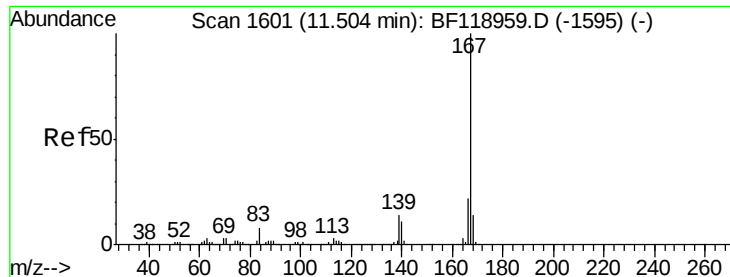
#72
Anthracene
Concen: 17.586 ng
RT: 11.35 min Scan# 1575
Delta R.T. -0.00 min
Lab File: BF118986.D
Acq: 21 Feb 2020 4:20

Tgt Ion:178 Resp: 385422
Ion Ratio Lower Upper
178 100
176 18.3 15.4 23.2
179 15.9 12.8 19.2



Abundance Ion 178.00 (177.70 to 178.70): E
2000000 Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

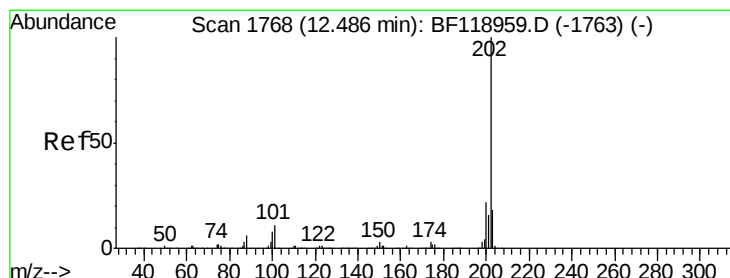
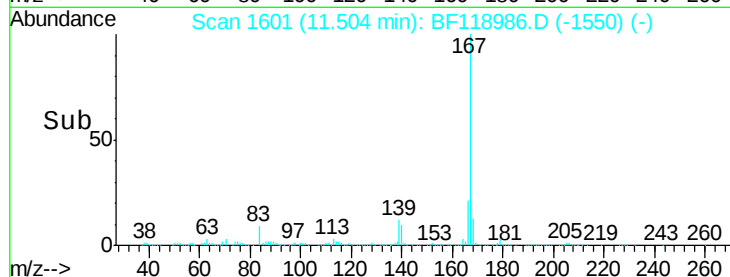
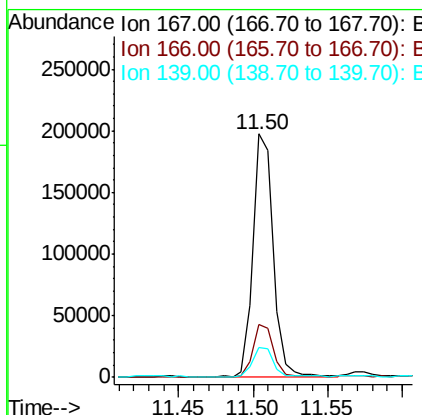
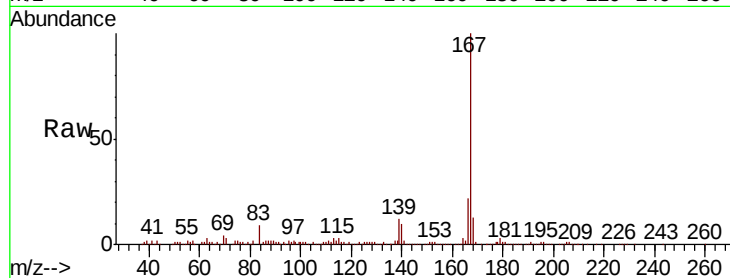




#73
 Carbazole
 Concen: 9.356 ng
 RT: 11.50 min Scan# 1601
 Delta R.T. -0.00 min
 Lab File: BF118986.D
 Acq: 21 Feb 2020 4:20

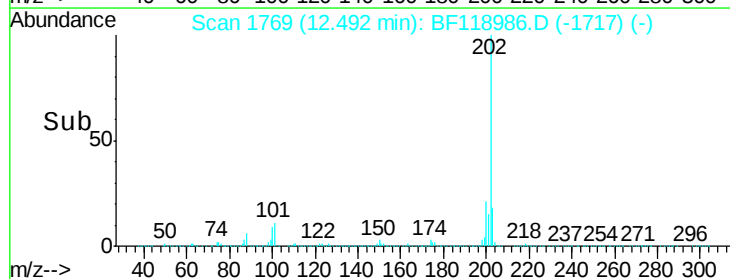
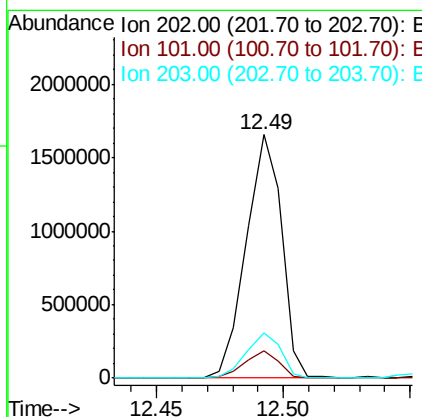
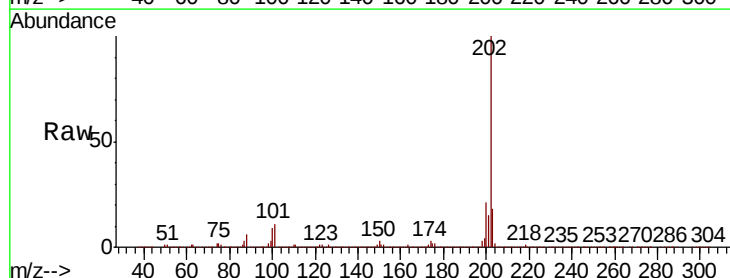
Instrument :
 BNA_F
 ClientSampleId :

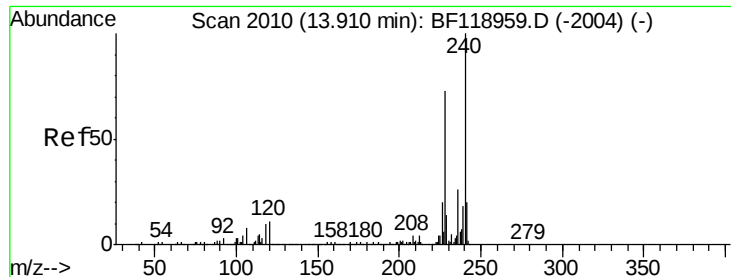
Tot Ion	Ratio	Lower	Upper
167	100		
166	21.5	17.8	26.6
139	12.4	11.2	16.8



#75
 Fluoranthene
 Concen: 69.495 ng
 RT: 12.49 min Scan# 1769
 Delta R.T. 0.01 min
 Lab File: BF118986.D
 Acq: 21 Feb 2020 4:20

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.4	0.0	31.1
203	18.5	0.0	38.1





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.92 min Scan# 2011

Delta R.T. 0.01 min

Lab File: BF118986.D

Acq: 21 Feb 2020 4:20

Instrument :

BNA_F

ClientSampleId :

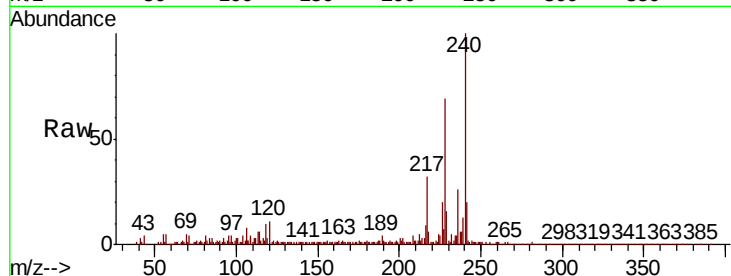
Tot Ion:240 Resp: 368638

Ion Ratio Lower Upper

240 100

120 10.7 8.9 13.3

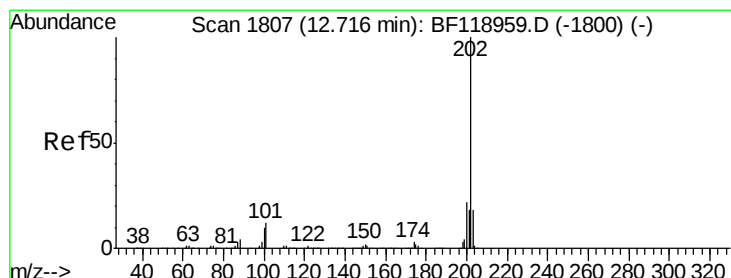
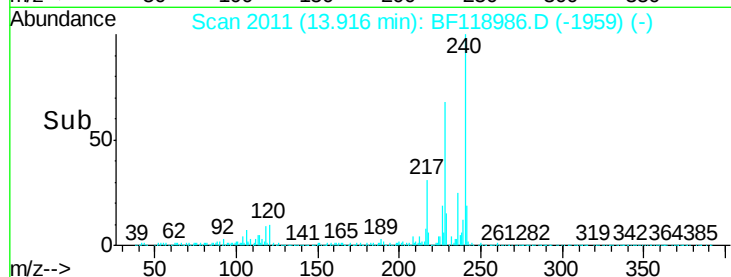
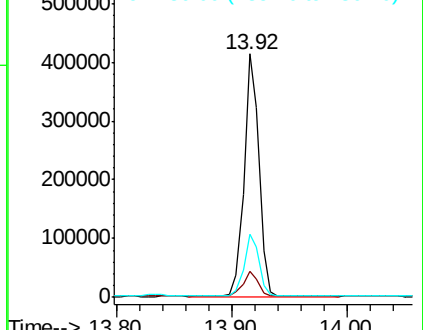
236 25.9 20.6 30.8



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: 46.306 ng

RT: 12.72 min Scan# 1808

Delta R.T. 0.01 min

Lab File: BF118986.D

Acq: 21 Feb 2020 4:20

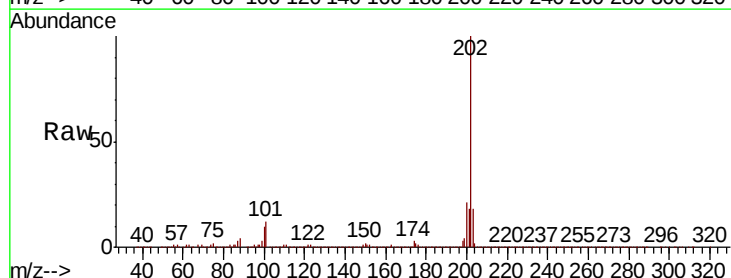
Tgt Ion:202 Resp: 1370715

Ion Ratio Lower Upper

202 100

200 21.4 17.4 26.0

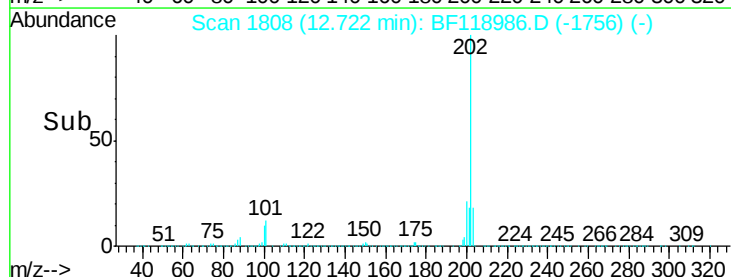
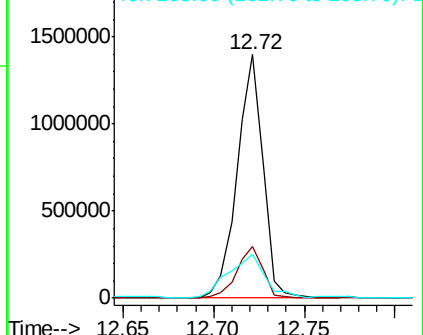
203 18.2 14.5 21.7

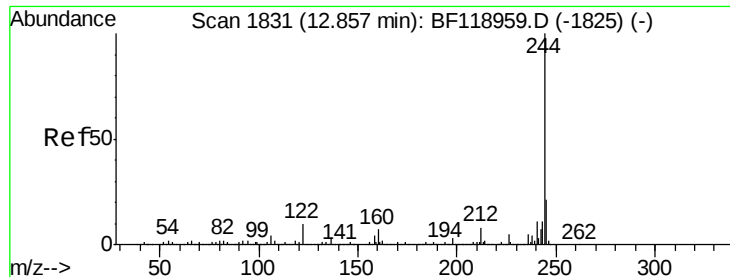


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 55.096 ng

RT: 12.86 min Scan# 1832

Delta R.T. 0.01 min

Lab File: BF118986.D

Acq: 21 Feb 2020 4:20

Instrument :

BNA_F

ClientSampleId :

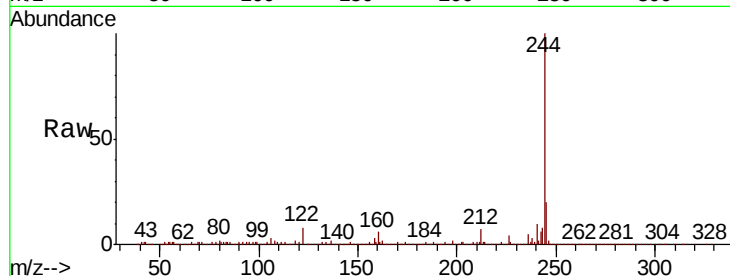
Tot Ion:244 Resp: 1179686

Ion Ratio Lower Upper

244 100

212 6.6 6.3 9.5

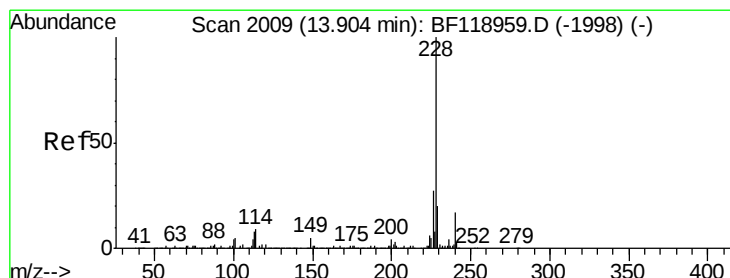
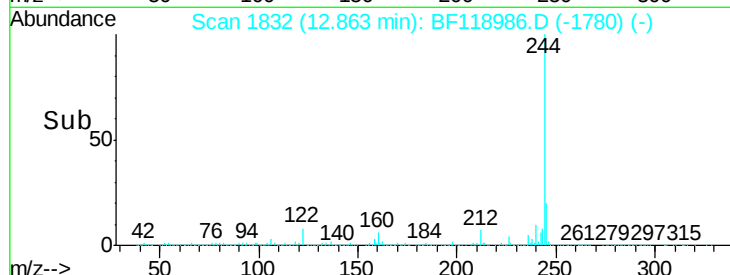
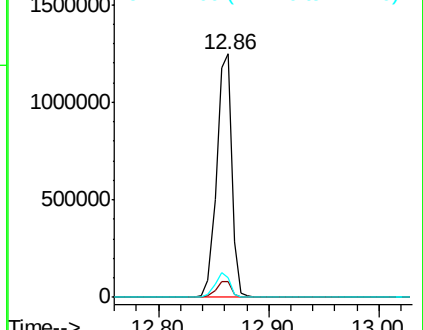
122 8.2 8.4 12.6#



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: 28.806 ng

RT: 13.91 min Scan# 2010

Delta R.T. 0.01 min

Lab File: BF118986.D

Acq: 21 Feb 2020 4:20

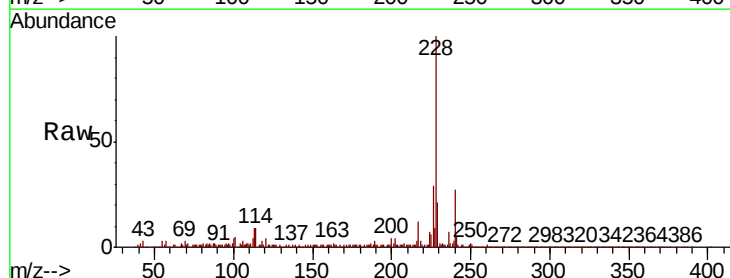
Tgt Ion:228 Resp: 723553

Ion Ratio Lower Upper

228 100

226 28.7 21.8 32.8

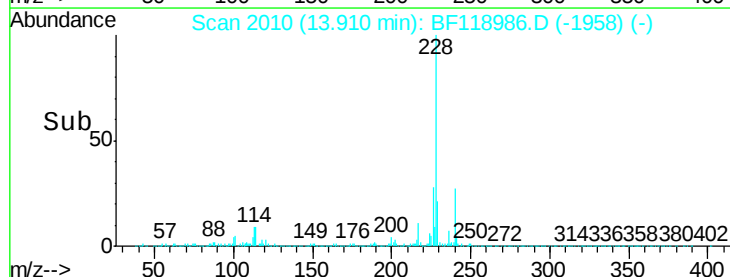
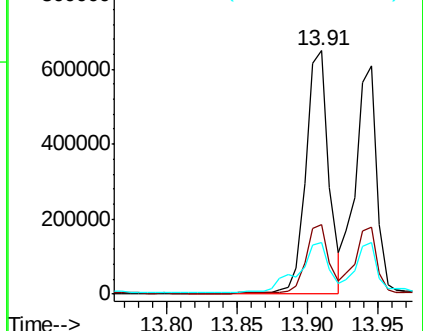
229 21.2 16.0 24.0

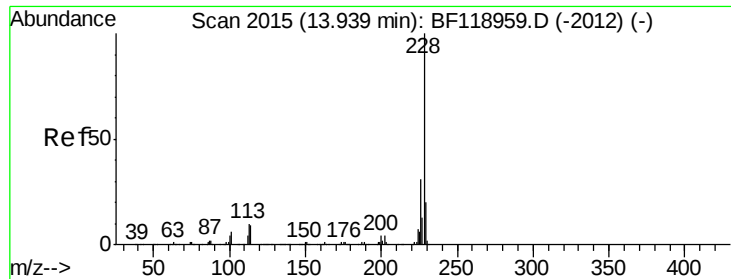


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

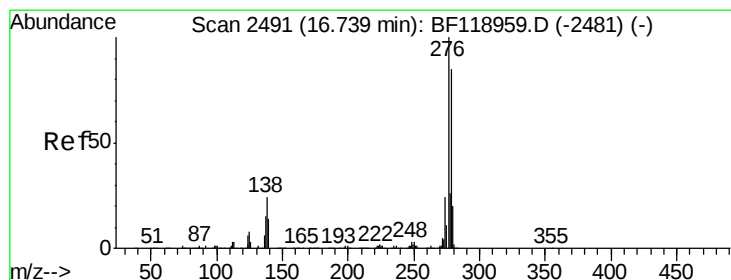
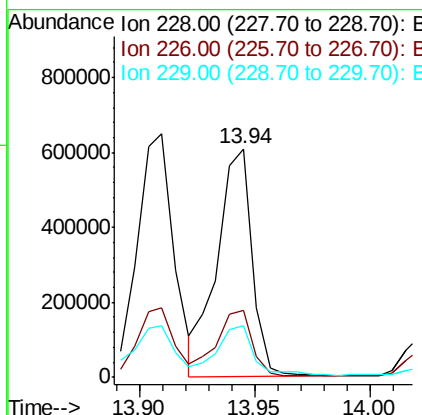
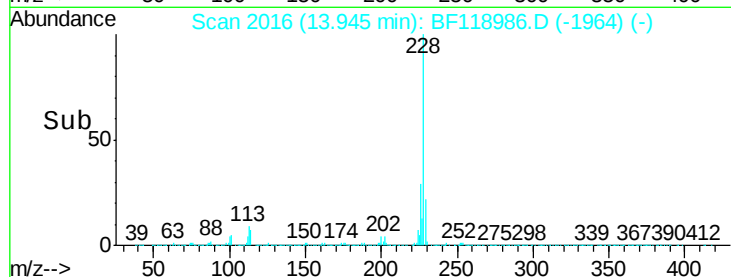
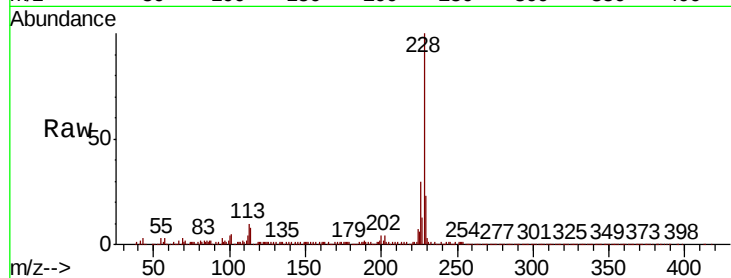




#83
Chrysene
Concen: 25.531 ng
RT: 13.94 min Scan# 2016
Delta R.T. 0.01 min
Lab File: BF118986.D
Acq: 21 Feb 2020 4:20

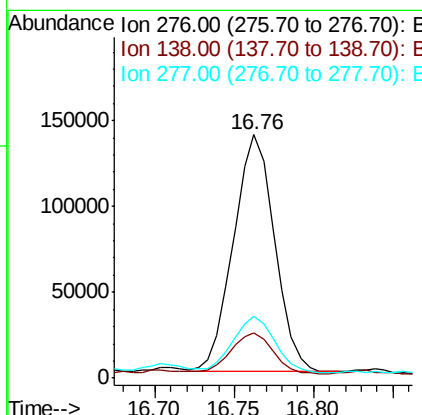
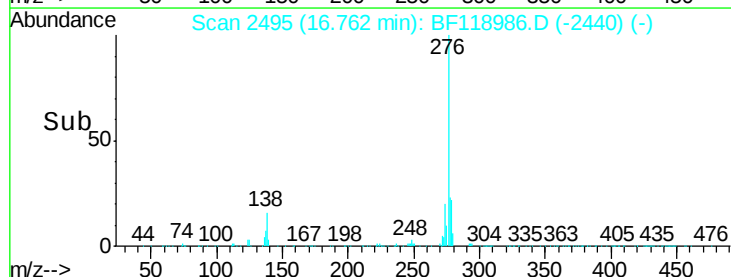
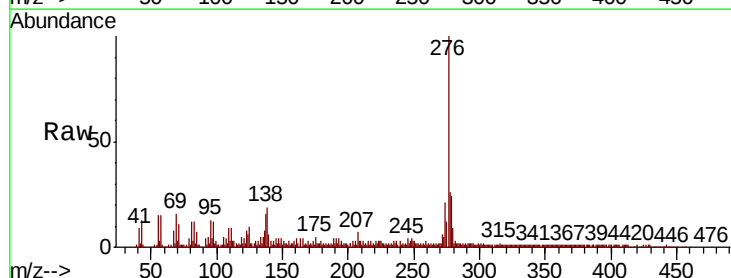
Instrument :
BNA_F
ClientSampleId :

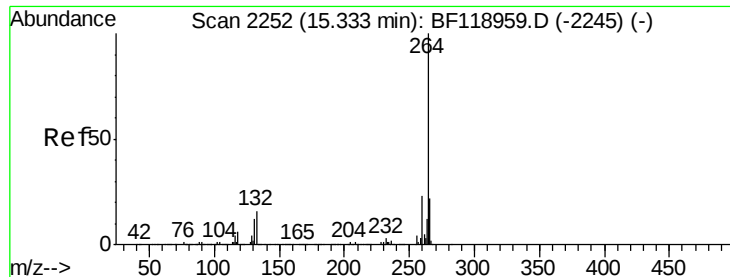
Tot Ion	Ratio	Lower	Upper
228	100		
226	29.5	24.6	37.0
229	22.6	16.2	24.2



#86
Indeno(1,2,3-cd)pyrene
Concen: 10.259 ng
RT: 16.76 min Scan# 2495
Delta R.T. 0.02 min
Lab File: BF118986.D
Acq: 21 Feb 2020 4:20

Tgt Ion	Ratio	Lower	Upper
276	100		
138	17.9	18.7	28.1#
277	24.4	20.3	30.5

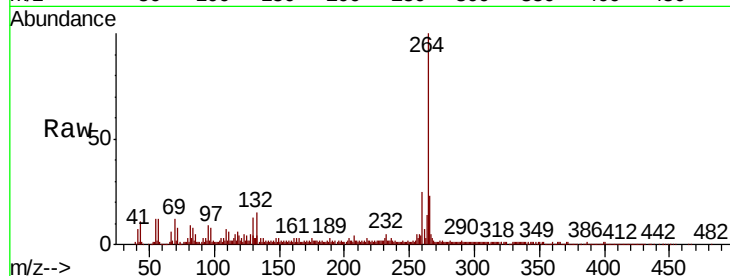




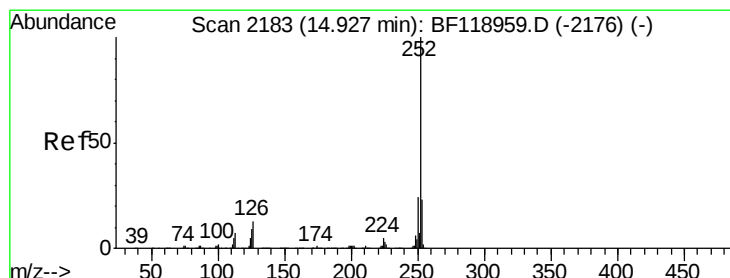
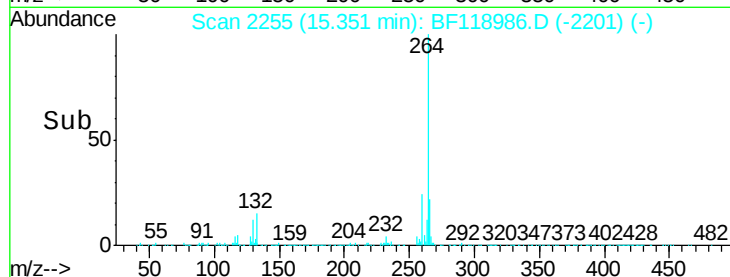
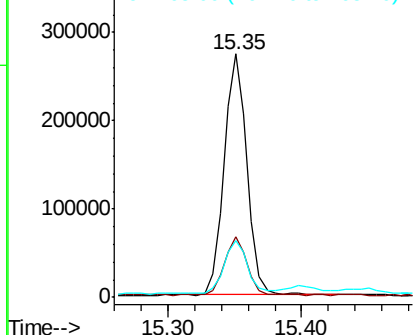
#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.35 min Scan# 2255
Delta R.T. 0.02 min
Lab File: BF118986.D
Acq: 21 Feb 2020 4:20

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.7	18.6	28.0
265	23.4	17.3	25.9

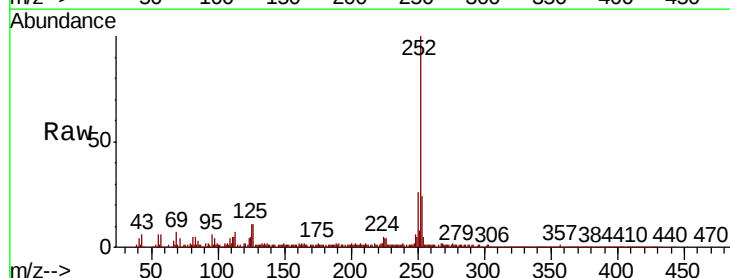


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

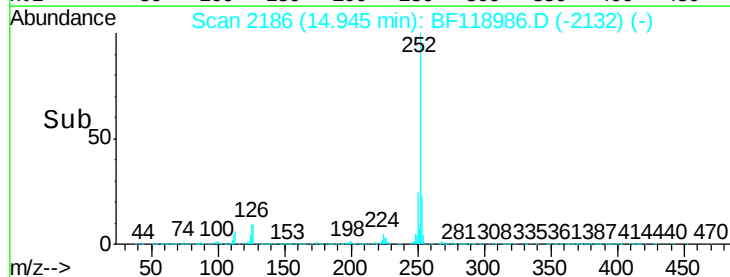
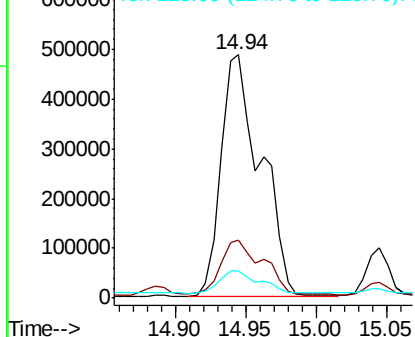


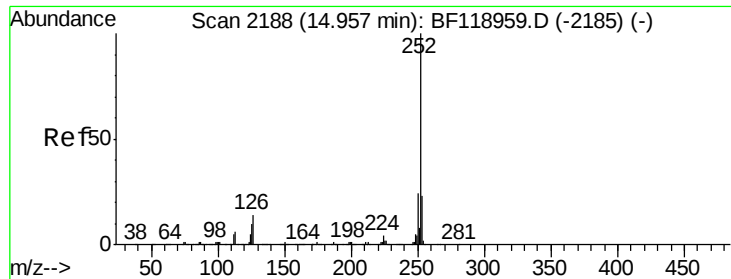
#88
Benzo(b)fluoranthene
Concen: 44.287 ng
RT: 14.94 min Scan# 2186
Delta R.T. 0.02 min
Lab File: BF118986.D
Acq: 21 Feb 2020 4:20

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	18.2	27.2
125	11.4	7.4	11.0



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

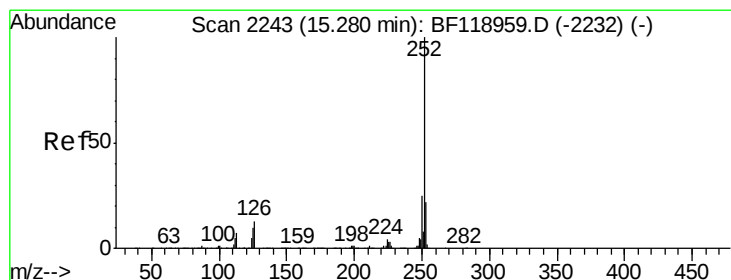
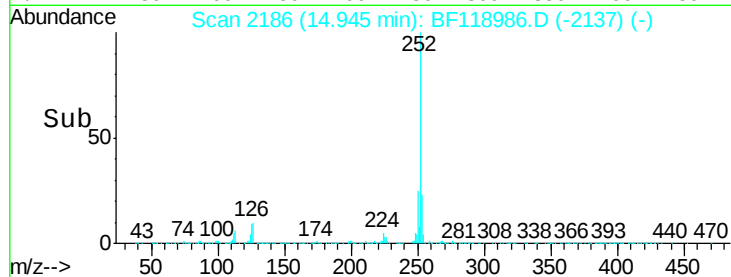
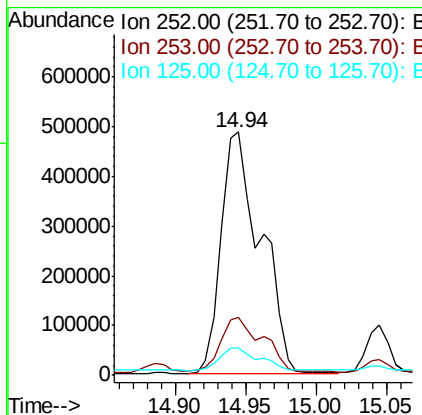
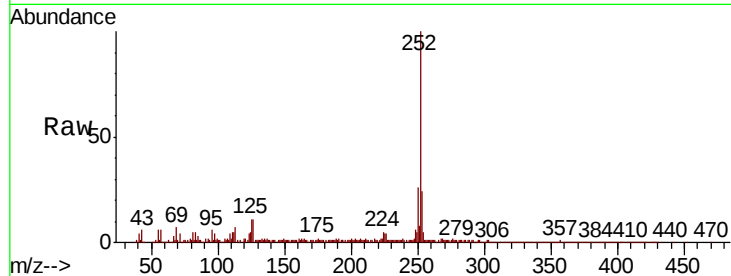




#89
Benzo(k)fluoranthene
Concen: 47.789 ng
RT: 14.94 min Scan# 2186
Delta R.T. -0.01 min
Lab File: BF118986.D
Acq: 21 Feb 2020 4:20

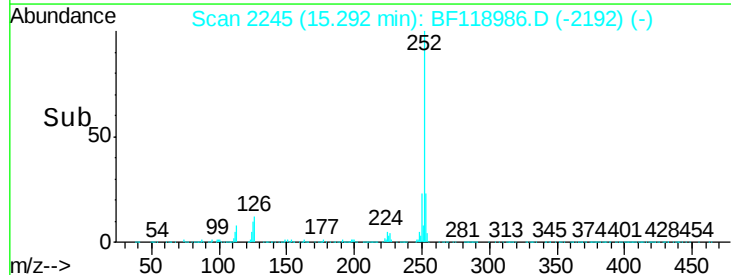
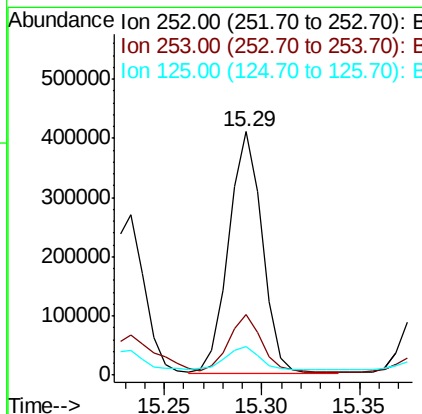
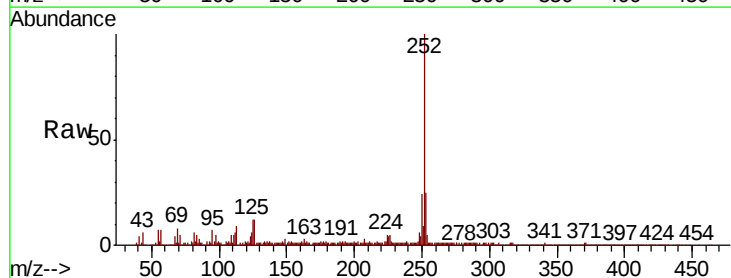
Instrument :
BNA_F
ClientSampleId :

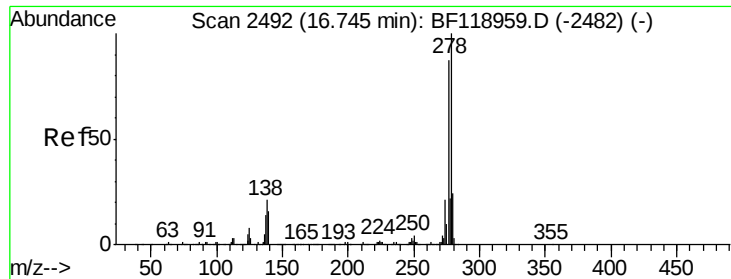
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.9	26.9
125	11.4	7.3	10.9



#90
Benzo(a)pyrene
Concen: 24.872 ng
RT: 15.29 min Scan# 2245
Delta R.T. 0.01 min
Lab File: BF118986.D
Acq: 21 Feb 2020 4:20

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.6	17.9	26.9
125	11.7	7.8	11.6

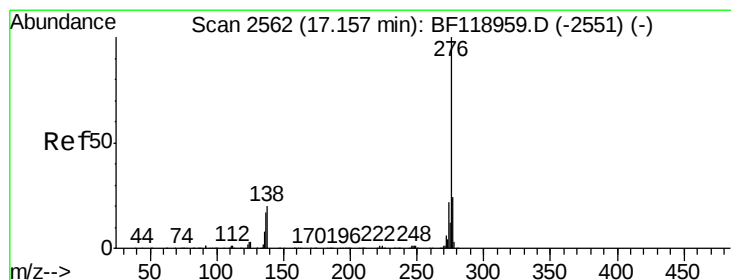
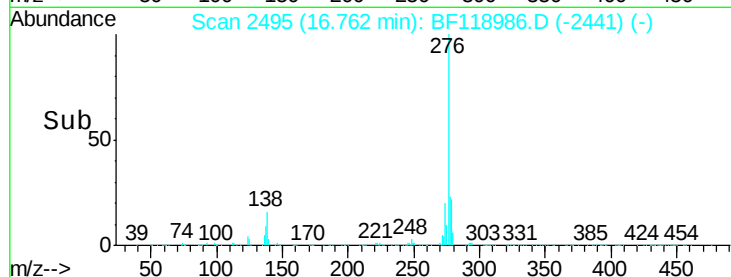
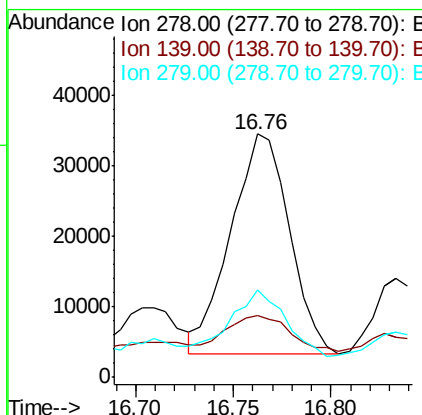
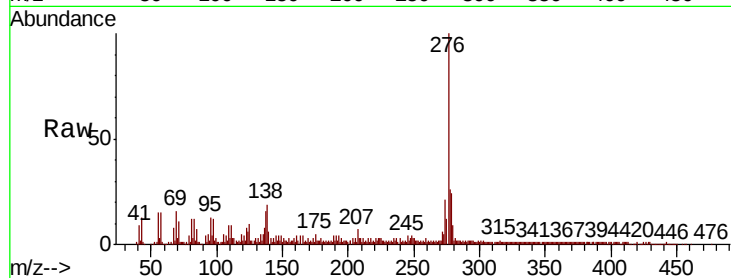




#91
Dibenzo(a,h)anthracene
Concen: 3.749 ng
RT: 16.76 min Scan# 2495
Delta R.T. 0.02 min
Lab File: BF118986.D
Acq: 21 Feb 2020 4:20

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
278	100		
139	25.4	12.6	18.8#
279	35.7	19.0	28.6#



#92
Benzo(g,h,i)perylene
Concen: 13.471 ng
RT: 17.19 min Scan# 2568
Delta R.T. 0.04 min
Lab File: BF118986.D
Acq: 21 Feb 2020 4:20

Tgt Ion	Ratio	Lower	Upper
276	100		
277	26.5	19.2	28.8
138	20.1	16.2	24.4

