

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112719\
 Data File : BF118043.D
 Acq On : 27 Nov 2019 16:20
 Operator : JU
 Sample : K5940-01 5X
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Nov 27 16:47:43 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF111319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 26 05:38:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.88	152	144370	20.00	ng	-0.01
21) Naphthalene-d8	8.17	136	586551	20.00	ng	-0.01
39) Acenaphthene-d10	9.93	164	311036	20.00	ng	-0.01
64) Phenanthrene-d10	11.43	188	564843	20.00	ng	0.00
76) Chrysene-d12	14.07	240	330211	20.00	ng	-0.01
87) Perylene-d12	15.58	264	380250	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.48	112	158993	19.49	ng	-0.02
7) Phenol-d6	6.50	99	230071	23.39	ng	-0.02
23) Nitrobenzene-d5	7.44	82	140334	14.22	ng	-0.02
42) 2,4,6-Tribromophenol	10.72	330	38528	11.70	ng	-0.02
45) 2-Fluorobiphenyl	9.25	172	316588	18.26	ng	-0.02
79) Terphenyl-d14	13.02	244	343164	18.99	ng	-0.01

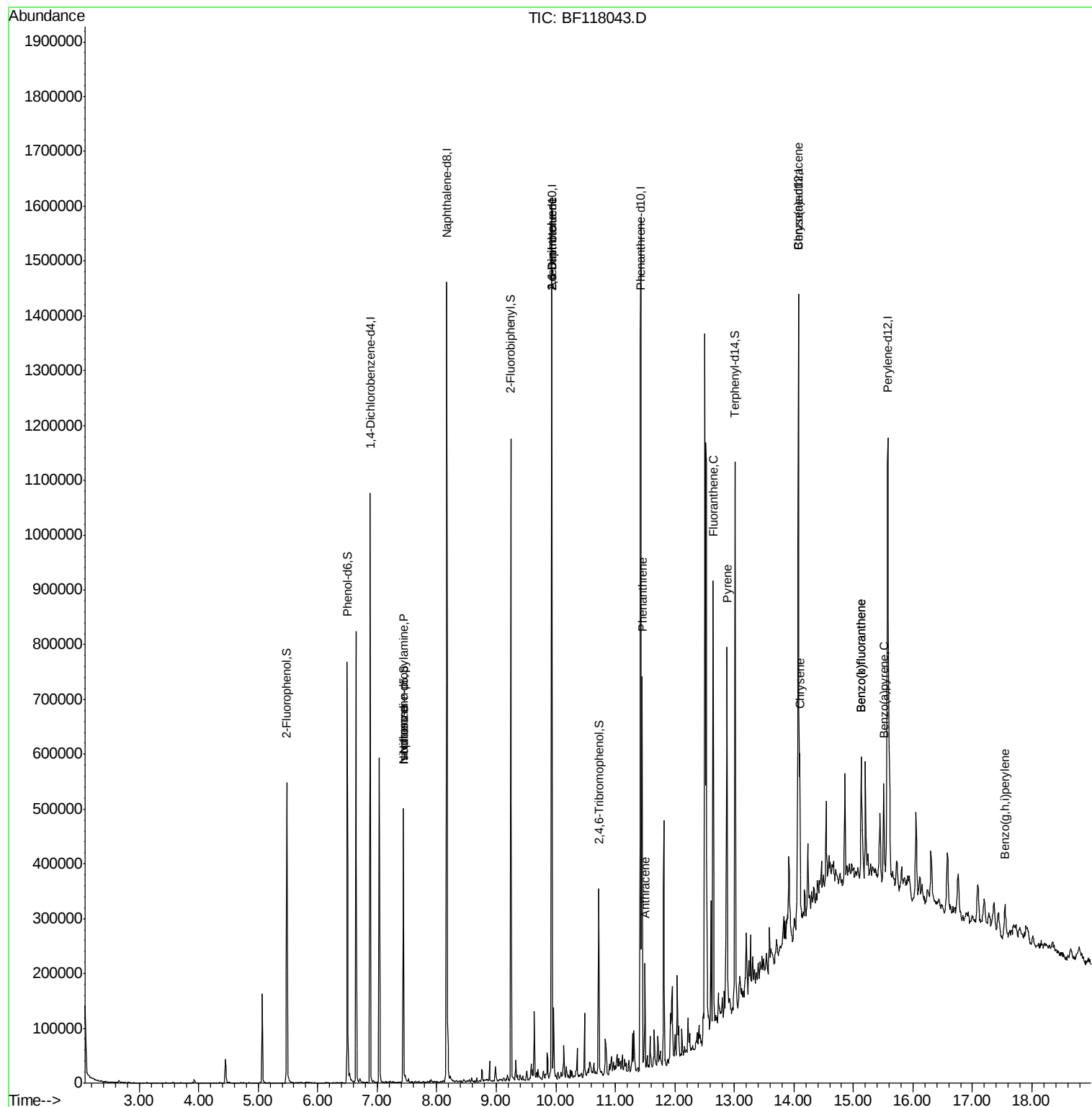
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.65	77	4402	Below Cal		89
19) n-Nitroso-di-n-propylamine	7.44	70	18688	3.079	ng	# 74
25) Isophorone	7.44	82	140332	7.760	ng	# 62
51) 2,6-Dinitrotoluene	9.93	165	41983	8.807	ng	# 23
57) 2,4-Dinitrotoluene	9.93	165	41983	6.924	ng	# 25
71) Phenanthrene	11.45	178	267977	9.436	ng	97
72) Anthracene	11.50	178	67224	2.388	ng	98
75) Fluoranthene	12.64	202	307238	5.231	ng	98
78) Pyrene	12.87	202	261470	9.798	ng	98
81) Benzo(a)anthracene	14.07	228	110457	5.062	ng	99
83) Chrysene	14.10	228	101486	4.800	ng	98
88) Benzo(b)fluoranthene	15.13	252	159316	6.449	ng	# 98
89) Benzo(k)fluoranthene	15.13	252	159316	6.844	ng	# 96
90) Benzo(a)pyrene	15.51	252	88515	4.075	ng	98
92) Benzo(a,h,i)perylene	17.54	276	47886	2.571	ng	97

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

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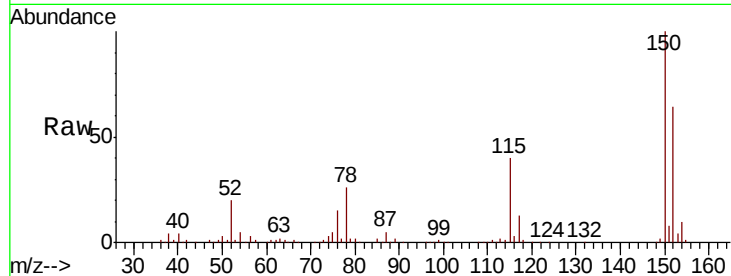


#1

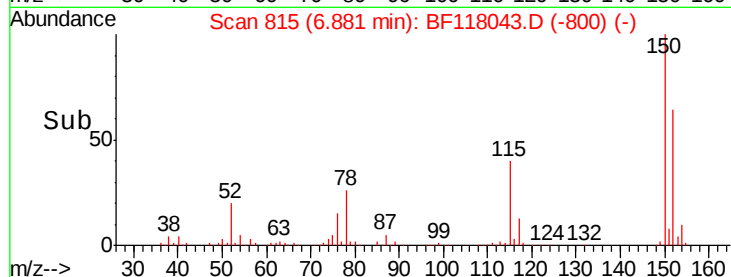
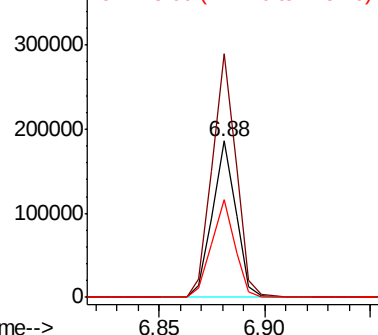
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.88 min Scan# 815
Delta R.T. -0.01 min
Lab File: BF118043.D
Acq: 27 Nov 2019 16:20

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 144370
Ion Ratio Lower Upper
152 100
150 155.7 125.3 187.9
115 62.7 47.0 70.4



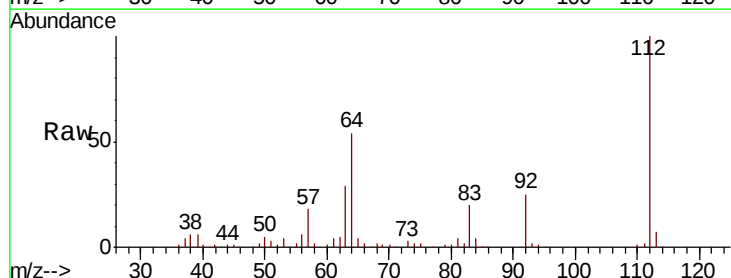
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



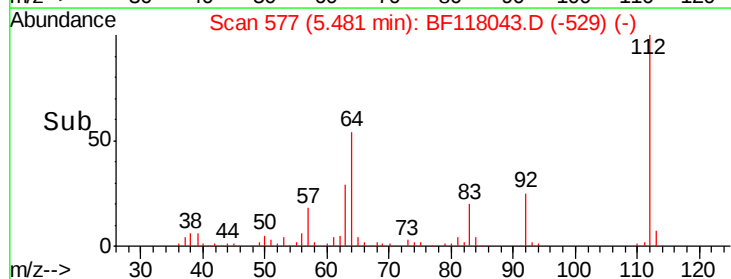
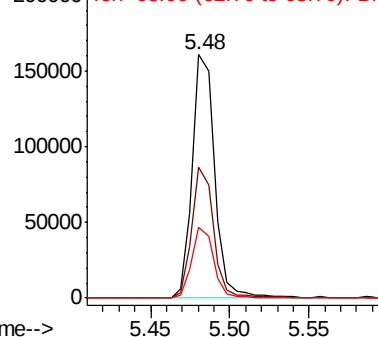
#5

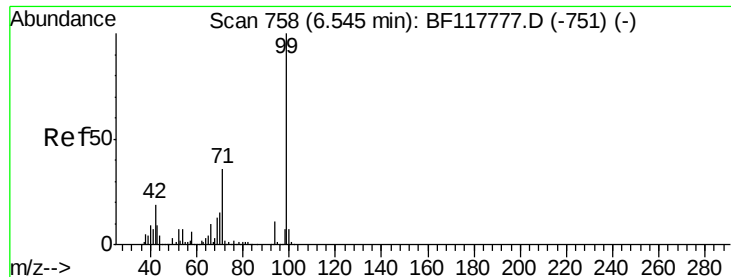
2-Fluorophenol
Concen: 19.494 ng
RT: 5.48 min Scan# 577
Delta R.T. -0.02 min
Lab File: BF118043.D
Acq: 27 Nov 2019 16:20

Tgt Ion:112 Resp: 158993
Ion Ratio Lower Upper
112 100
64 53.9 45.6 68.4
63 29.1 24.1 36.1



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: 23.387 ng

RT: 6.50 min Scan# 750

Delta R.T. -0.02 min

Lab File: BF118043.D

Acq: 27 Nov 2019 16:20

Instrument :

BNA_F

ClientSampleId :

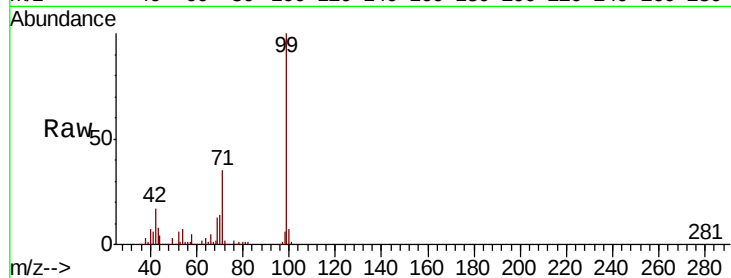
Tot Ion: 99 Resp: 230071

Ion Ratio Lower Upper

99 100

42 17.2 14.9 22.3

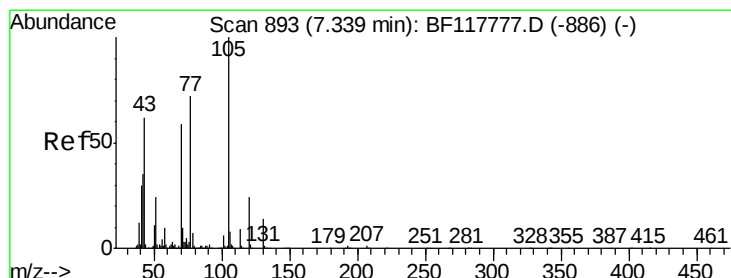
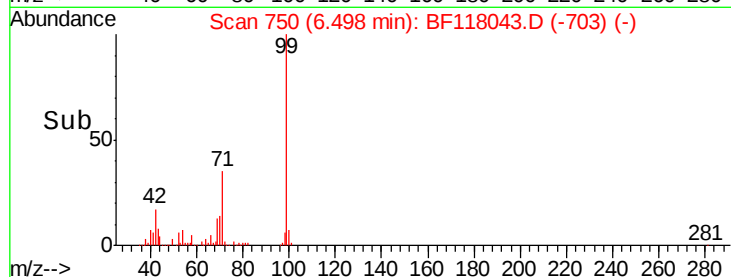
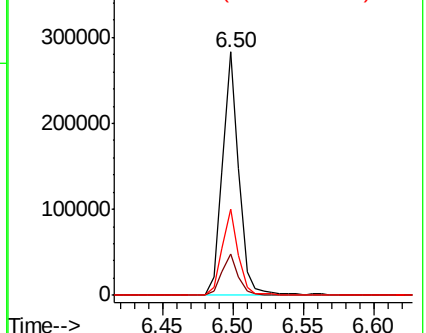
71 35.3 28.6 43.0



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: 3.079 ng

RT: 7.44 min Scan# 910

Delta R.T. 0.13 min

Lab File: BF118043.D

Acq: 27 Nov 2019 16:20

Tgt Ion: 70 Resp: 18688

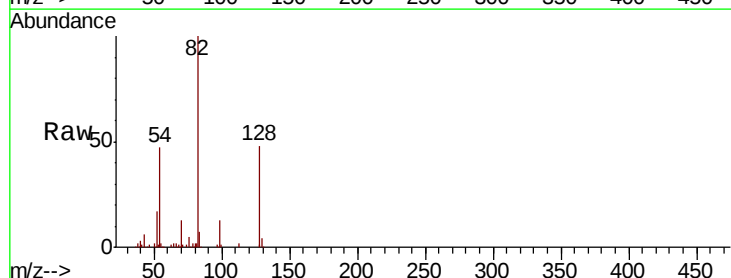
Ion Ratio Lower Upper

70 100

42 45.8 47.4 71.2#

101 0.0 8.4 12.6#

130 2.1 18.8 28.2#

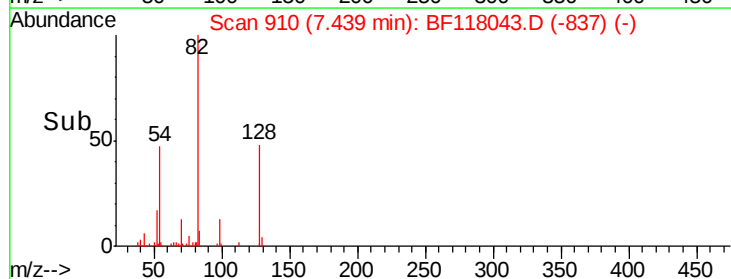
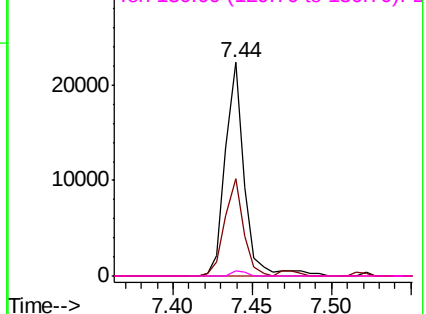


Abundance Ion 70.00 (69.70 to 70.70): BF1

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

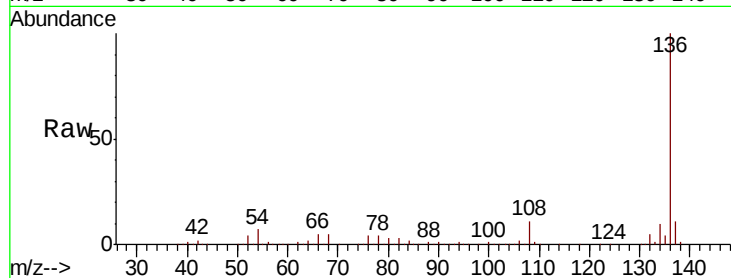




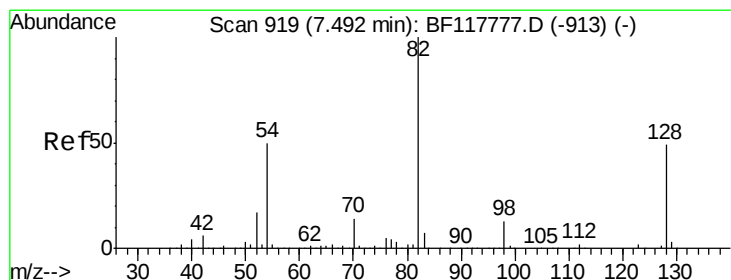
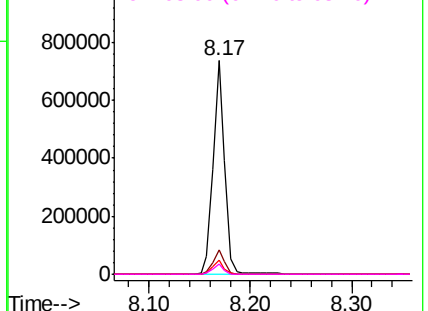
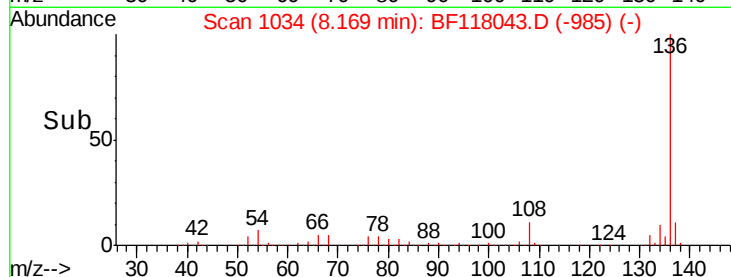
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.17 min Scan# 1034
Delta R.T. -0.01 min
Lab File: BF118043.D
Acq: 27 Nov 2019 16:20

Instrument :
BNA_F
ClientSampleId :

Tot Ion:136	Resp:	586551
Ion Ratio	Lower	Upper
136	100	
137	11.3	9.0 13.4
54	6.7	5.4 8.2
68	4.7	4.3 6.5

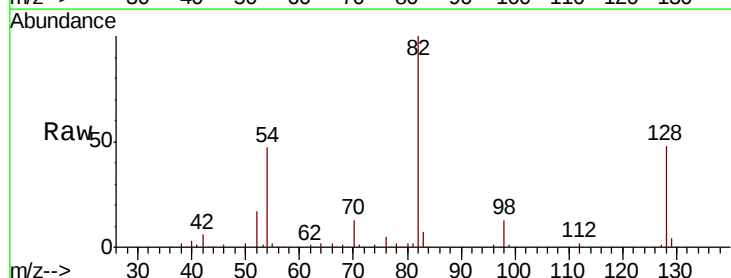


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

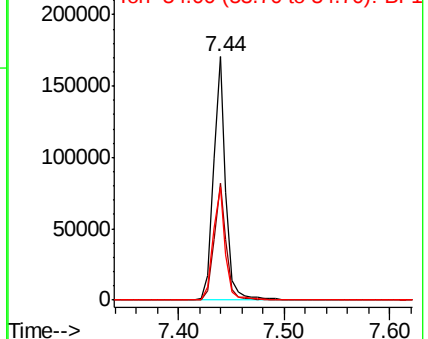
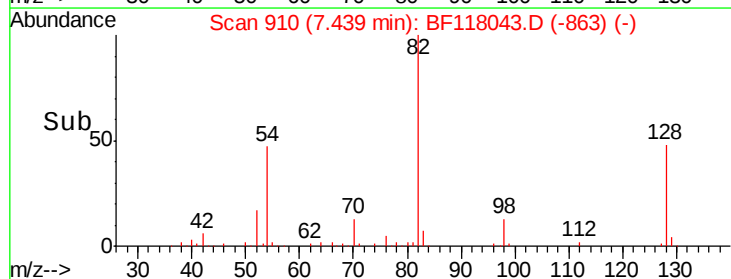


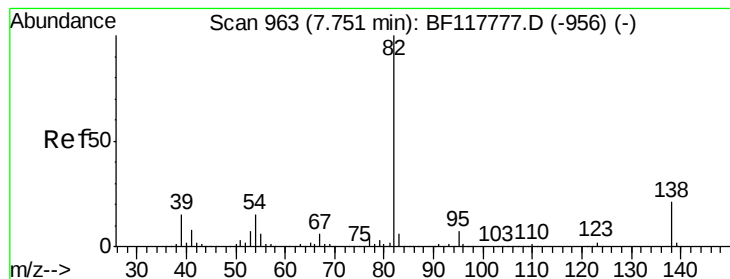
#23
Nitrobenzene-d5
Concen: 14.223 ng
RT: 7.44 min Scan# 910
Delta R.T. -0.02 min
Lab File: BF118043.D
Acq: 27 Nov 2019 16:20

Tgt Ion: 82	Resp:	140334
Ion Ratio	Lower	Upper
82	100	
128	47.9	38.9 58.3
54	46.6	39.8 59.6



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: 7.760 ng

RT: 7.44 min Scan# 910

Delta R.T. -0.28 min

Lab File: BF118043.D

Acq: 27 Nov 2019 16:20

Instrument :

BNA_F

ClientSampleId :

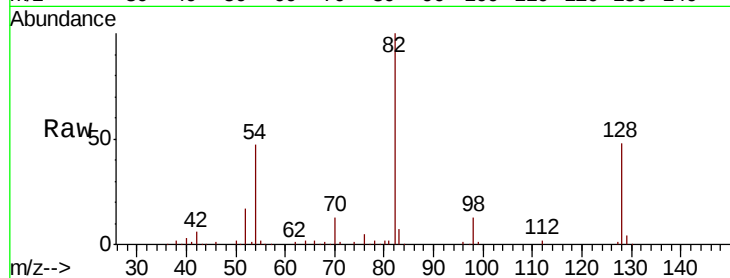
Tot Ion: 82 Resp: 140332

Ion Ratio Lower Upper

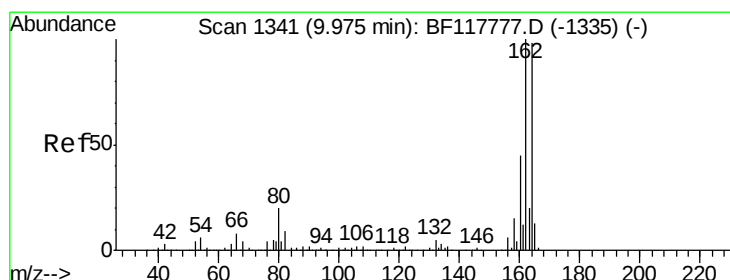
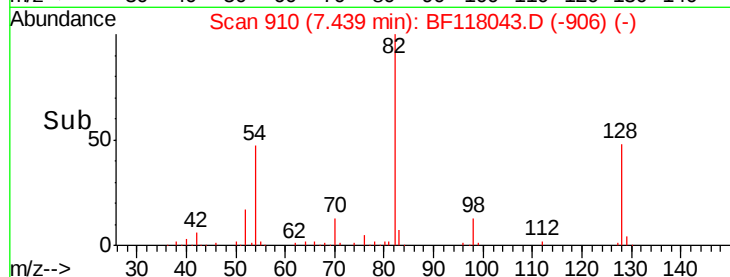
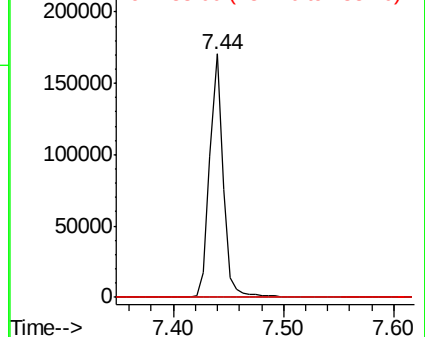
82 100

95 0.0 5.8 8.8#

138 0.0 16.5 24.7#



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): E



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.93 min Scan# 1334

Delta R.T. -0.01 min

Lab File: BF118043.D

Acq: 27 Nov 2019 16:20

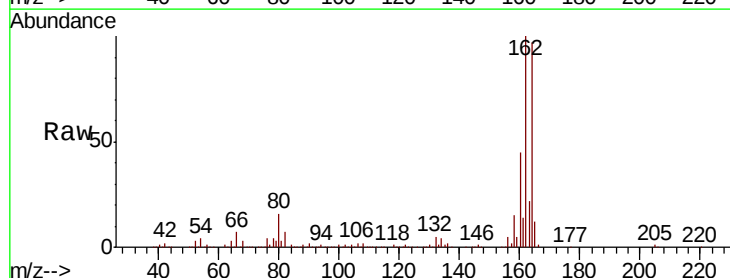
Tgt Ion:164 Resp: 311036

Ion Ratio Lower Upper

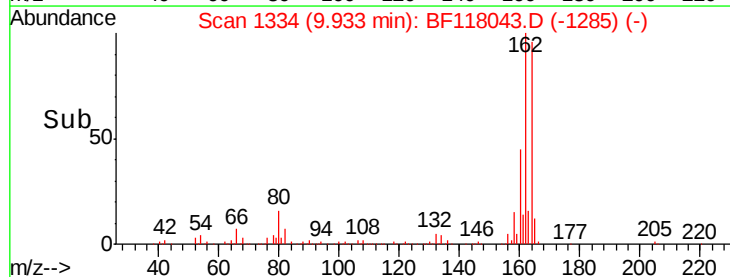
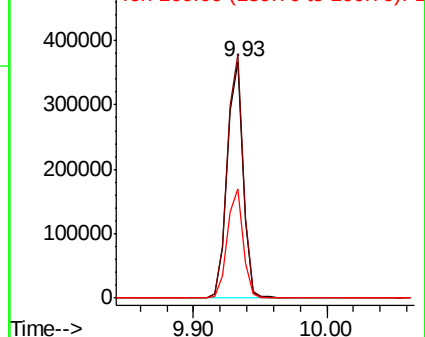
164 100

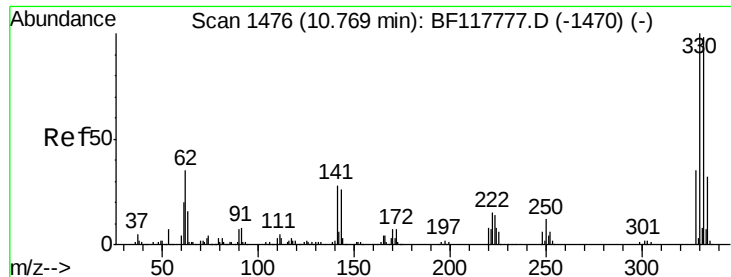
162 103.2 81.3 121.9

160 46.2 36.6 55.0



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





#42

2,4,6-Tribromophenol

Concen: 11.700 ng

RT: 10.72 min Scan# 1468

Delta R.T. -0.02 min

Lab File: BF118043.D

Acq: 27 Nov 2019 16:20

Instrument :

BNA_F

ClientSampleId :

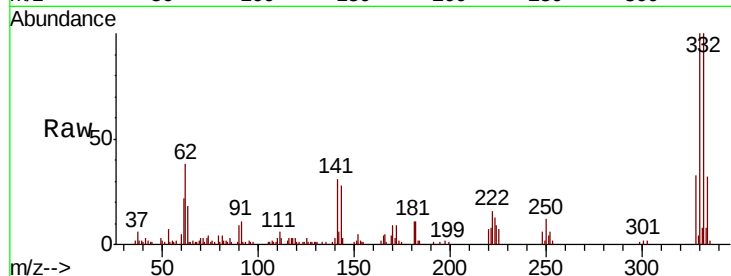
Tot Ion:330 Resp: 38528

Ion Ratio Lower Upper

330 100

332 94.2 76.7 115.1

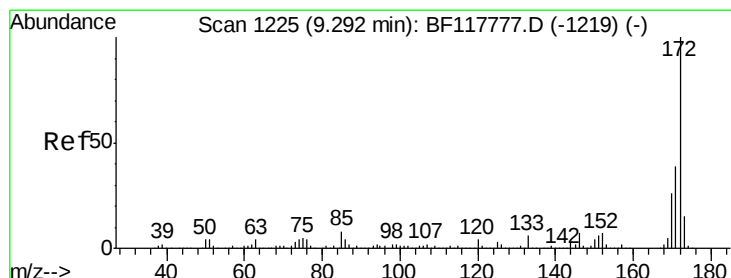
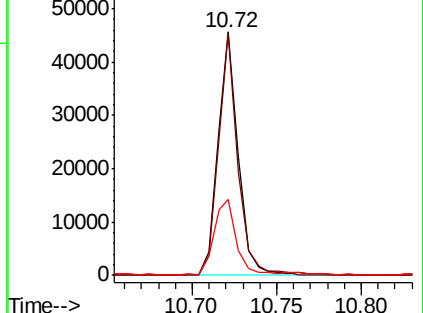
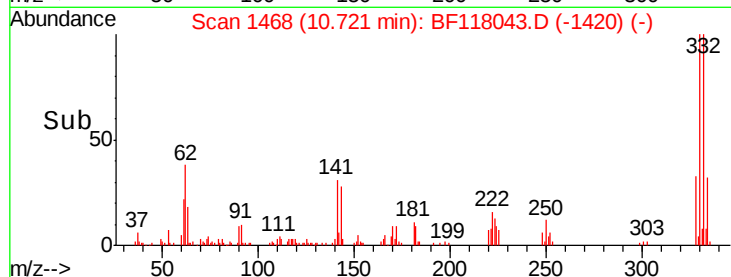
141 34.4 27.7 41.5



Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45

2-Fluorobiphenyl

Concen: 18.261 ng

RT: 9.25 min Scan# 1217

Delta R.T. -0.02 min

Lab File: BF118043.D

Acq: 27 Nov 2019 16:20

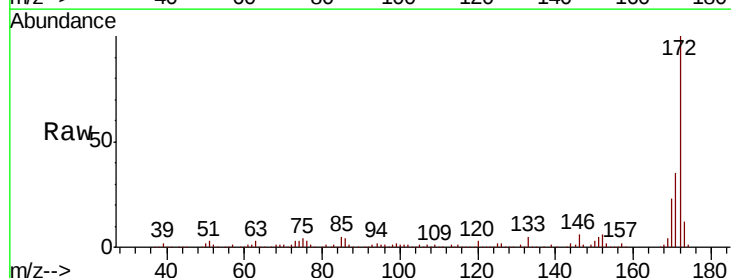
Tgt Ion:172 Resp: 316588

Ion Ratio Lower Upper

172 100

171 35.3 30.9 46.3

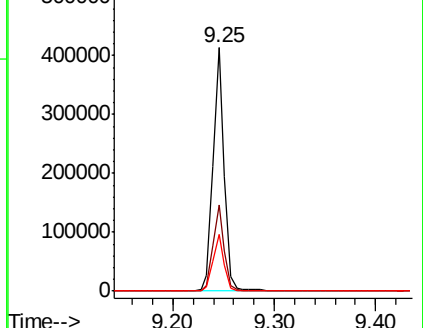
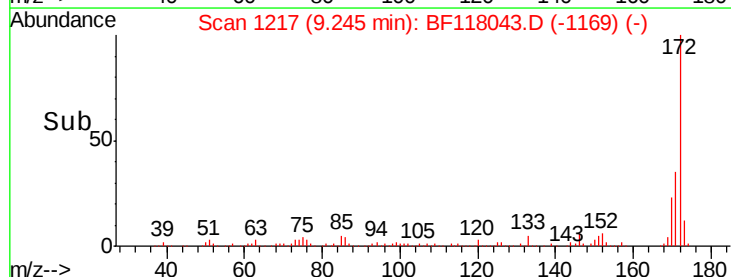
170 23.2 21.0 31.4

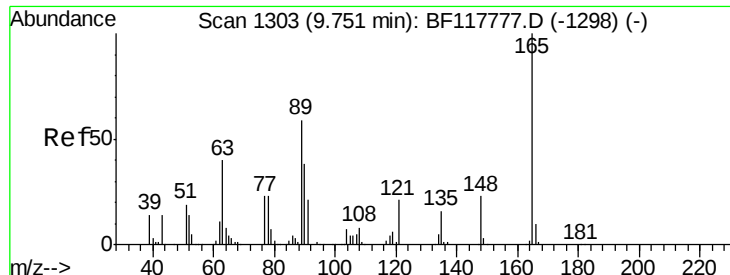


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

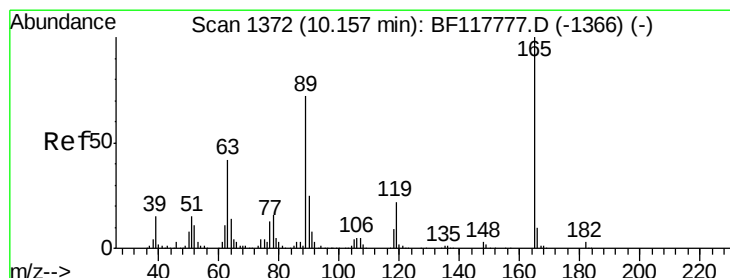
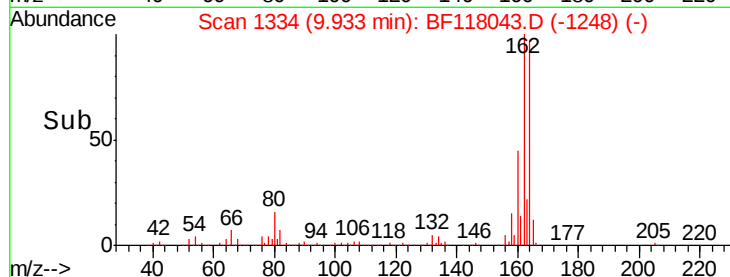
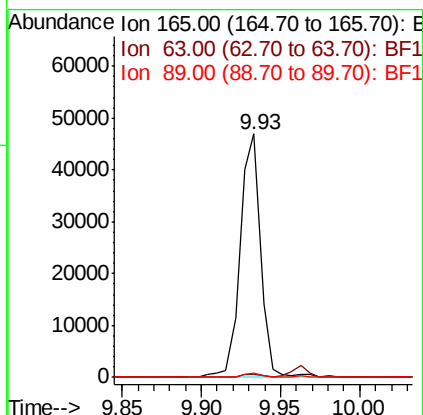
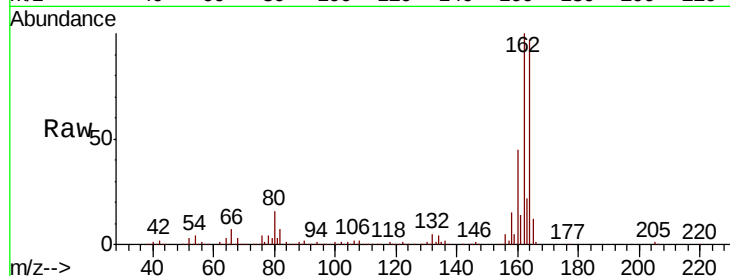




#51
 2,6-Dinitrotoluene
 Concen: 8.807 ng
 RT: 9.93 min Scan# 1334
 Delta R.T. 0.21 min
 Lab File: BF118043.D
 Acq: 27 Nov 2019 16:20

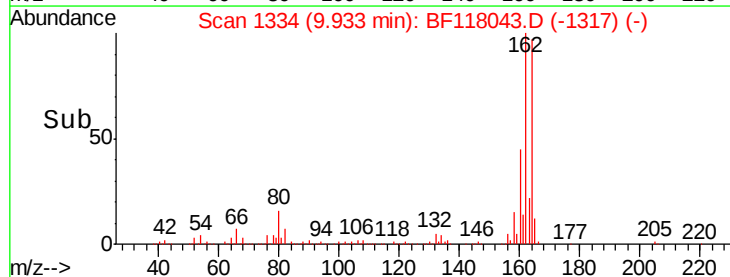
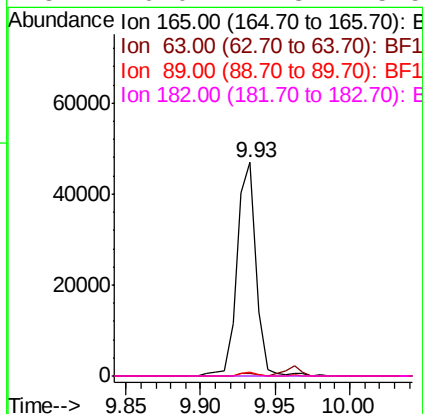
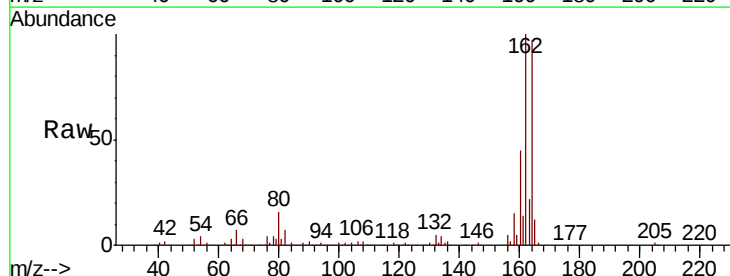
Instrument :
 BNA_F
 ClientSampleId :

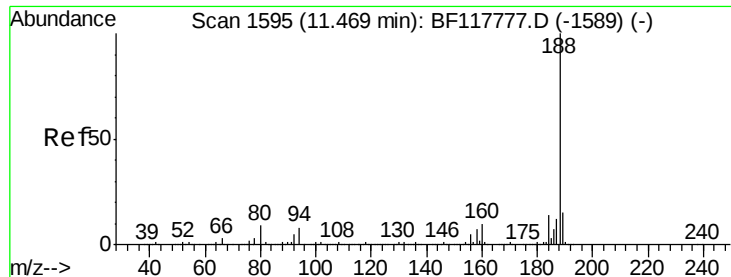
Tot Ion	Ratio	Lower	Upper
165	100		
63	1.2	46.0	69.0#
89	1.7	47.7	71.5#



#57
 2,4-Dinitrotoluene
 Concen: 6.924 ng
 RT: 9.93 min Scan# 1334
 Delta R.T. -0.20 min
 Lab File: BF118043.D
 Acq: 27 Nov 2019 16:20

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.2	33.7	50.5#
89	1.7	57.3	85.9#
182	0.0	2.3	3.5#

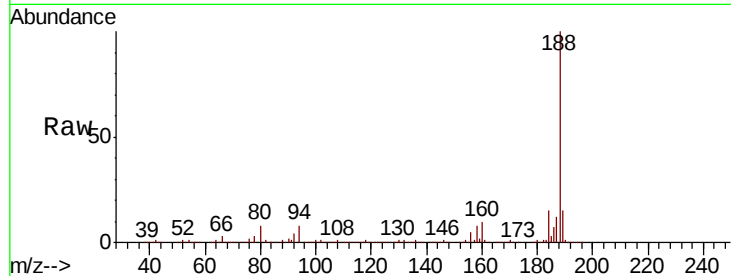




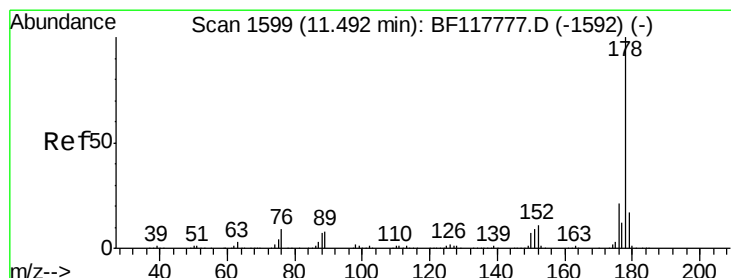
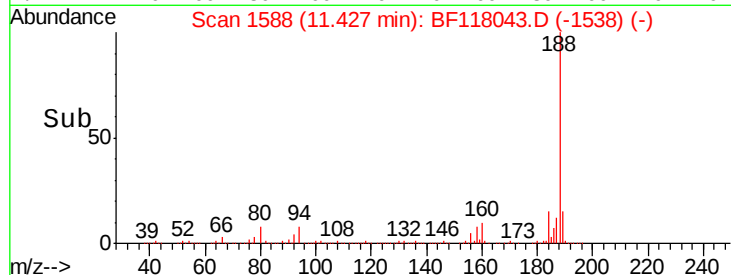
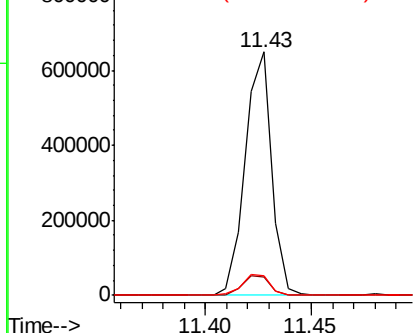
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.43 min Scan# 1588
Delta R.T. -0.01 min
Lab File: BF118043.D
Acq: 27 Nov 2019 16:20

Instrument :
BNA_F
ClientSampleId :

Tot Ion:188 Resp: 564843
Ion Ratio Lower Upper
188 100
94 7.6 6.6 10.0
80 8.2 7.2 10.8

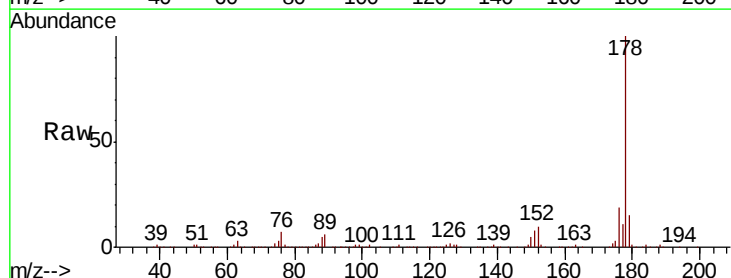


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF1
Ion 80.00 (79.70 to 80.70): BF1

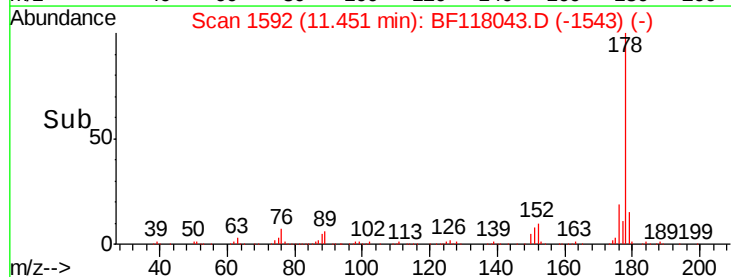
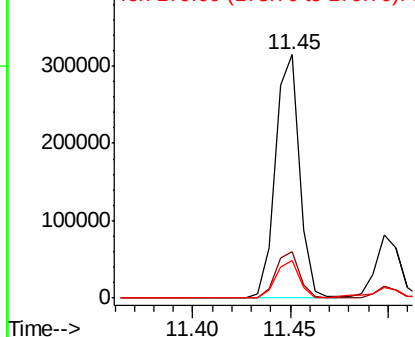


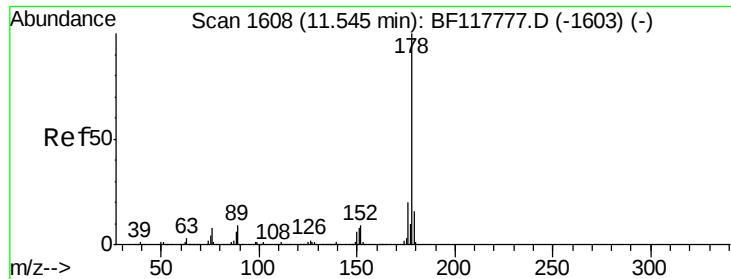
#71
Phenanthrene
Concen: 9.436 ng
RT: 11.45 min Scan# 1592
Delta R.T. -0.01 min
Lab File: BF118043.D
Acq: 27 Nov 2019 16:20

Tgt Ion:178 Resp: 267977
Ion Ratio Lower Upper
178 100
176 19.2 16.6 25.0
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

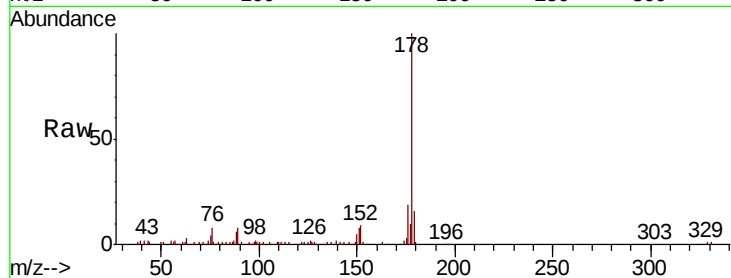




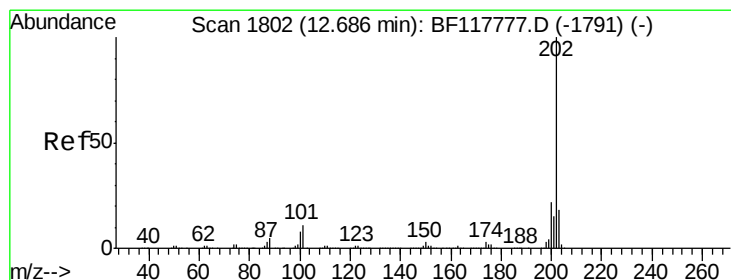
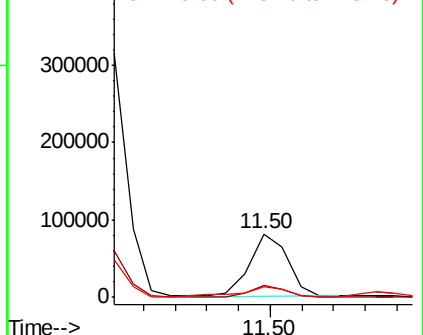
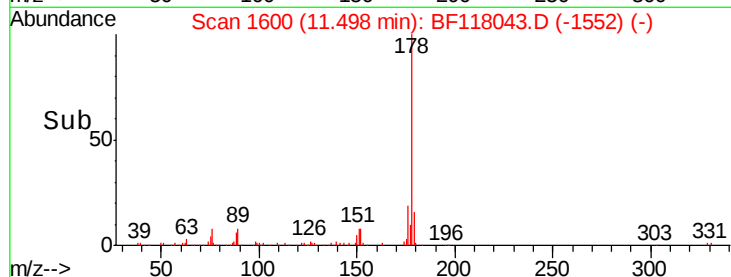
#72
 Anthracene
 Concen: 2.388 ng
 RT: 11.50 min Scan# 1600
 Delta R.T. -0.02 min
 Lab File: BF118043.D
 Acq: 27 Nov 2019 16:20

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:178 Resp: 67224
 Ion Ratio Lower Upper
 178 100
 176 18.9 16.1 24.1
 179 15.9 13.0 19.4

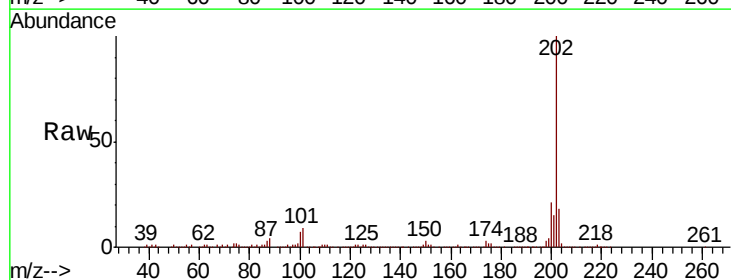


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

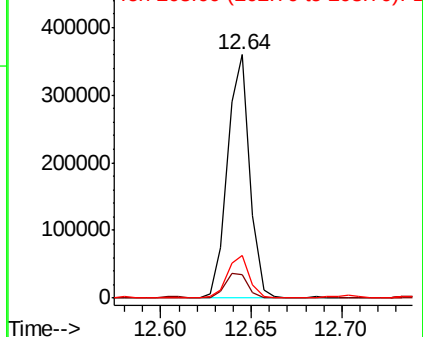
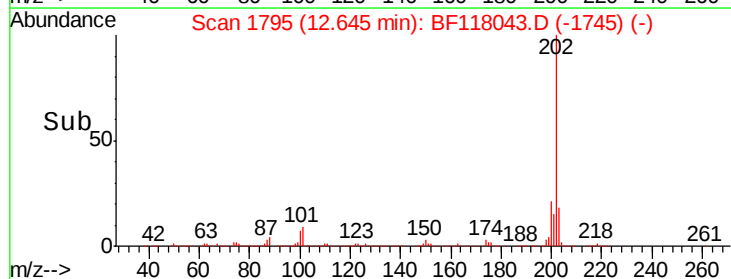


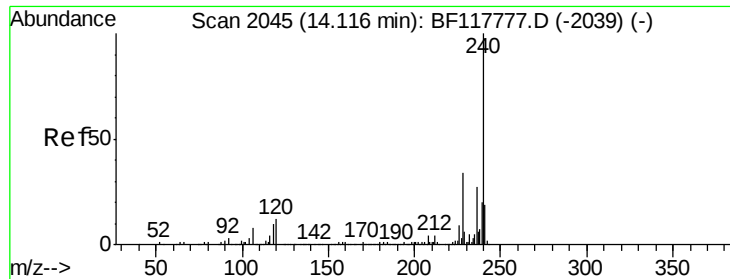
#75
 Fluoranthene
 Concen: 5.231 ng
 RT: 12.64 min Scan# 1795
 Delta R.T. -0.01 min
 Lab File: BF118043.D
 Acq: 27 Nov 2019 16:20

Tgt Ion:202 Resp: 307238
 Ion Ratio Lower Upper
 202 100
 101 9.5 0.0 31.1
 203 17.7 0.0 38.2



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

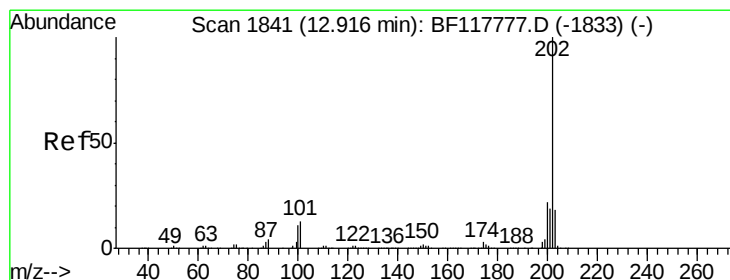
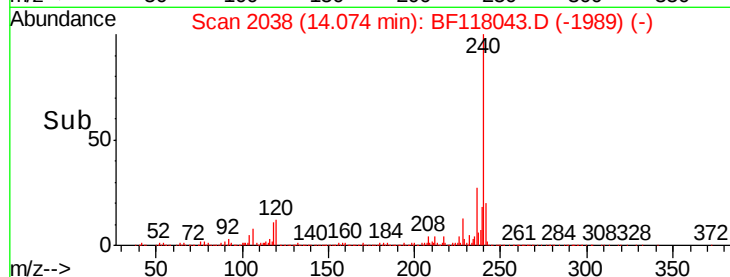
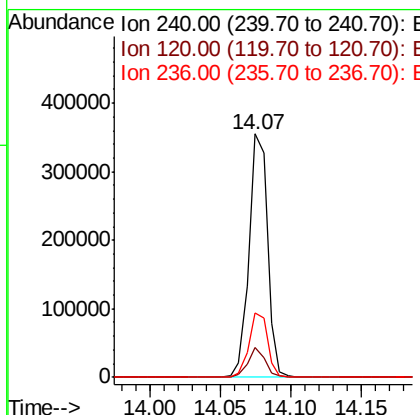
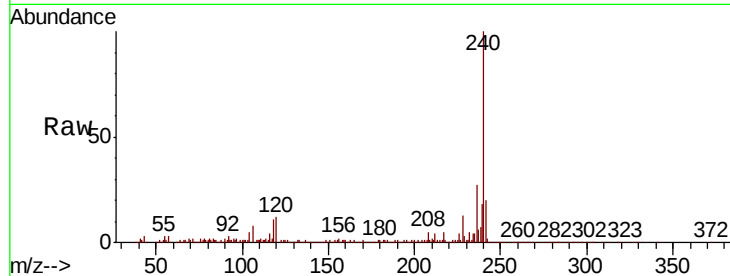




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.07 min Scan# 2038
Delta R.T. -0.01 min
Lab File: BF118043.D
Acq: 27 Nov 2019 16:20

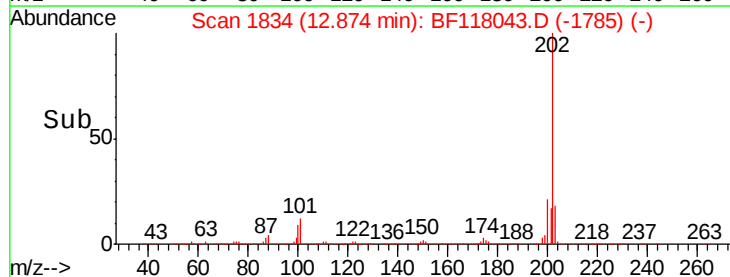
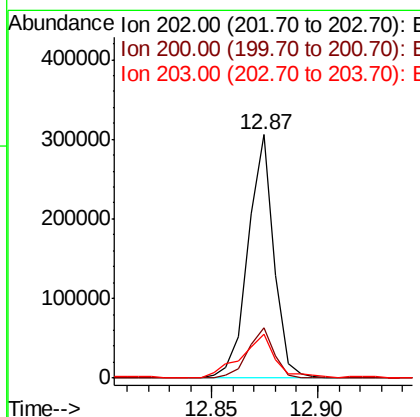
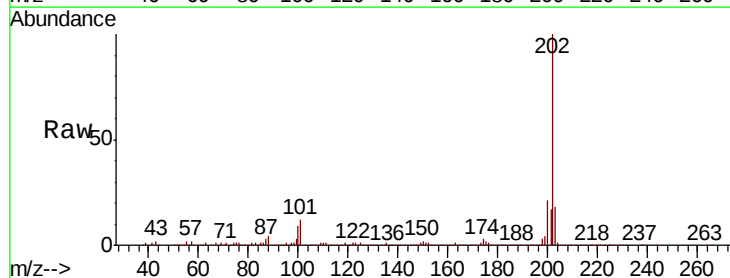
Instrument :
BNA_F
ClientSampleId :

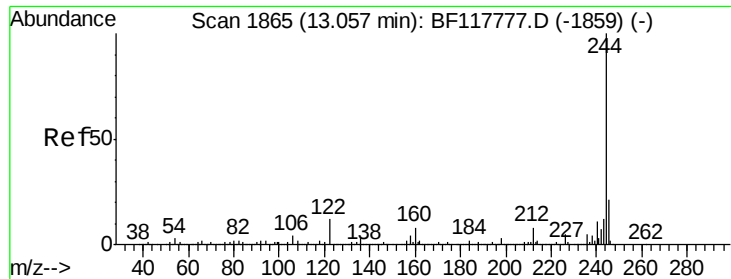
Tot Ion:240 Resp: 330211
Ion Ratio Lower Upper
240 100
120 12.3 9.5 14.3
236 26.6 21.3 31.9



#78
Pyrene
Concen: 9.798 ng
RT: 12.87 min Scan# 1834
Delta R.T. -0.01 min
Lab File: BF118043.D
Acq: 27 Nov 2019 16:20

Tgt Ion:202 Resp: 261470
Ion Ratio Lower Upper
202 100
200 20.8 17.8 26.8
203 18.0 14.6 22.0





#79

Terphenyl-d14

Concen: 18.993 ng

RT: 13.02 min Scan# 1858

Delta R.T. -0.01 min

Lab File: BF118043.D

Acq: 27 Nov 2019 16:20

Instrument :

BNA_F

ClientSampleId :

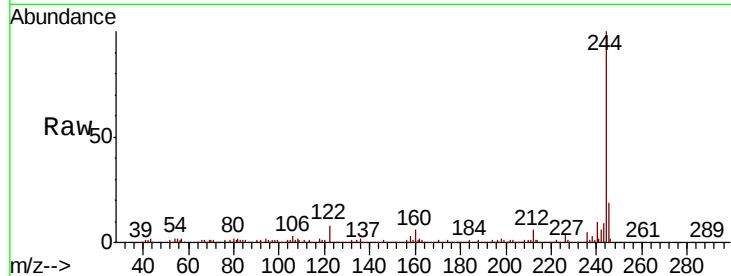
Tot Ion:244 Resp: 343164

Ion Ratio Lower Upper

244 100

212 6.2 6.3 9.5#

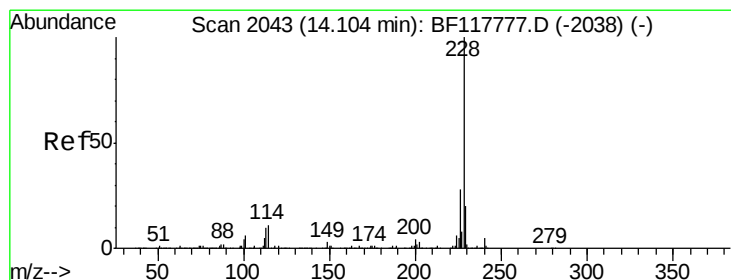
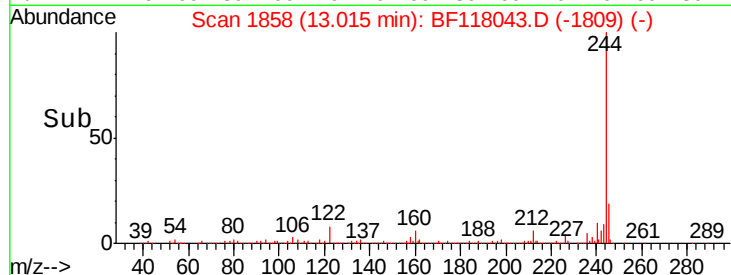
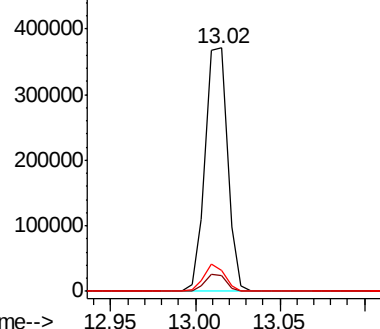
122 8.4 9.4 14.2#



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: 5.062 ng

RT: 14.07 min Scan# 2037

Delta R.T. -0.01 min

Lab File: BF118043.D

Acq: 27 Nov 2019 16:20

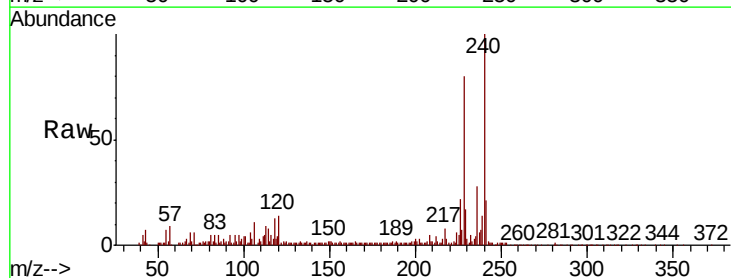
Tgt Ion:228 Resp: 110457

Ion Ratio Lower Upper

228 100

226 27.9 22.2 33.2

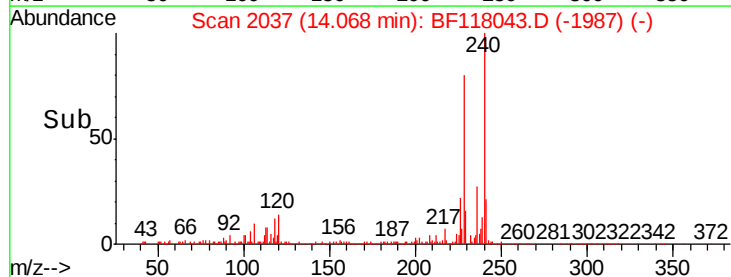
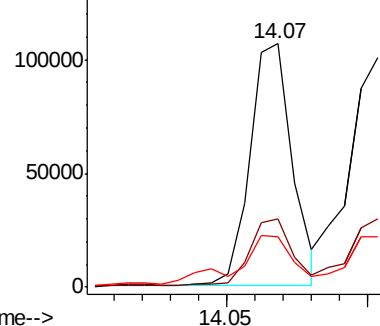
229 20.9 15.9 23.9

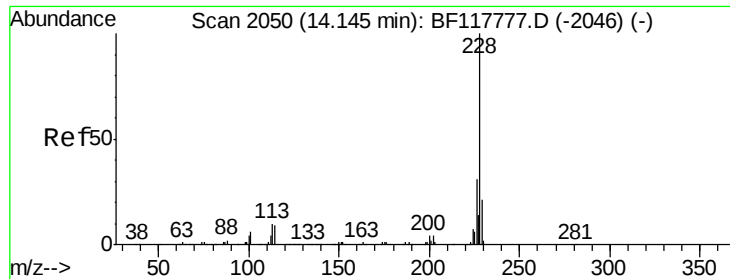


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

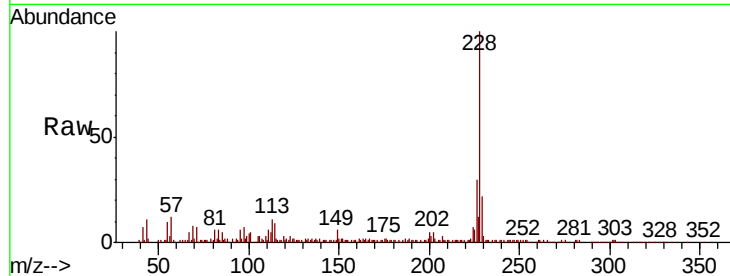




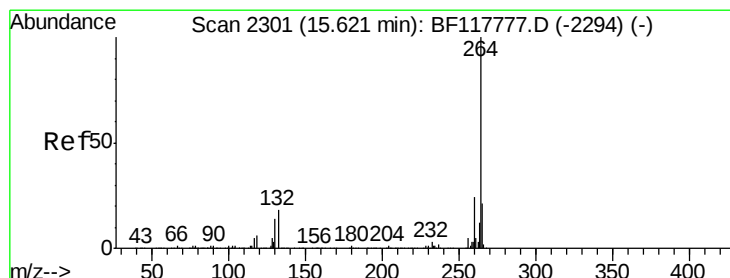
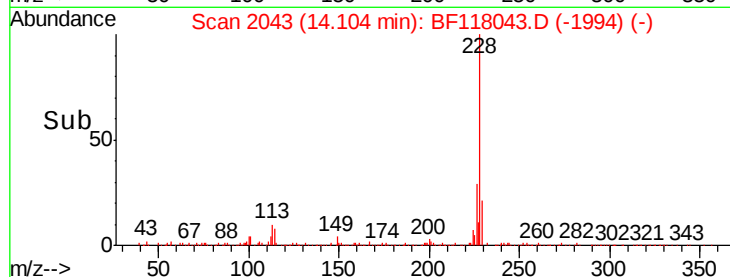
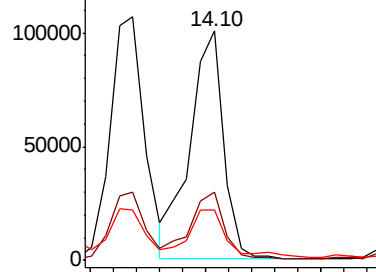
#83
Chrysene
Concen: 4.800 ng
RT: 14.10 min Scan# 2043
Delta R.T. -0.01 min
Lab File: BF118043.D
Acq: 27 Nov 2019 16:20

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.9	25.0	37.4
229	21.9	16.6	25.0

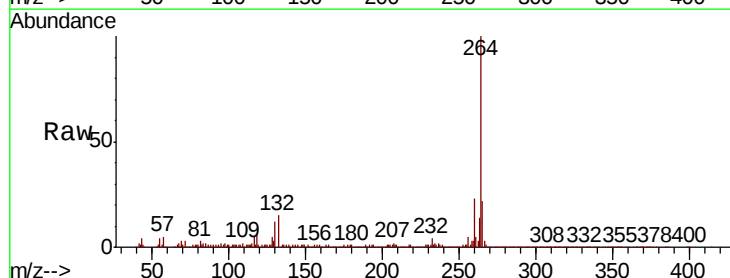


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

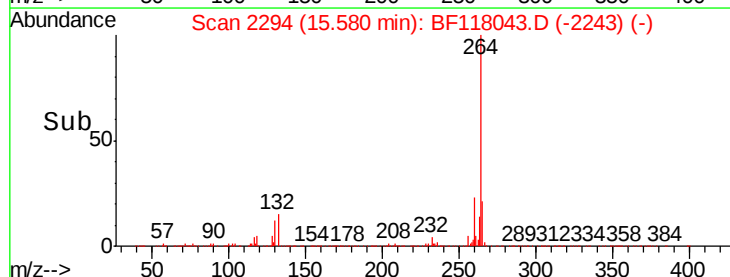
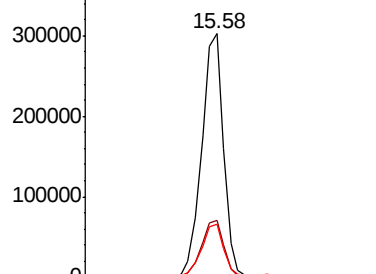


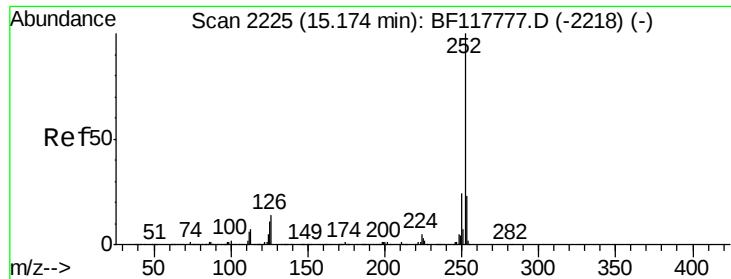
#87
Perylene-d12
Concen: 20.000 ng
RT: 15.58 min Scan# 2294
Delta R.T. -0.00 min
Lab File: BF118043.D
Acq: 27 Nov 2019 16:20

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.4	29.0
265	21.6	17.1	25.7



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

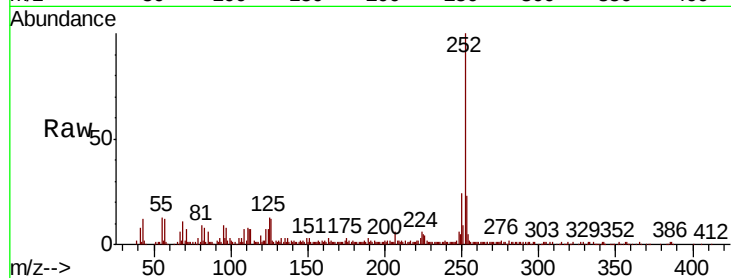




#88
Benzo(b)fluoranthene
Concen: 6.449 ng
RT: 15.13 min Scan# 2218
Delta R.T. -0.01 min
Lab File: BF118043.D
Acq: 27 Nov 2019 16:20

Instrument :
BNA_F
ClientSampled :

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.5	18.0	27.0
125	13.5	8.6	13.0

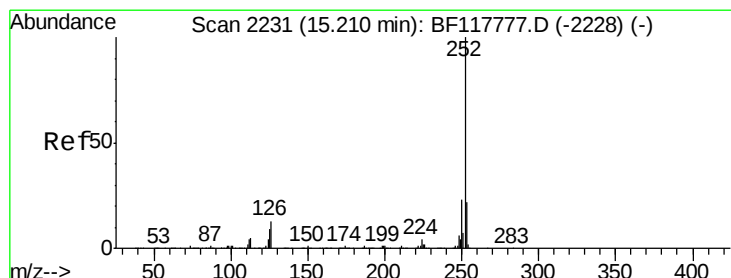
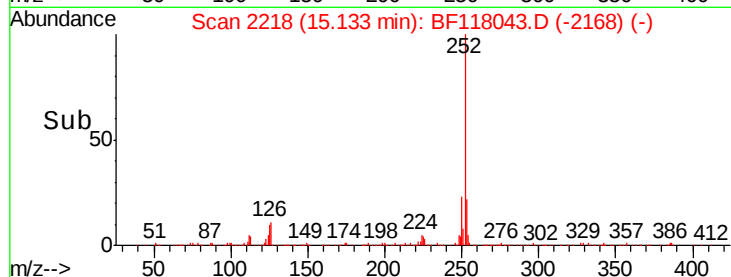
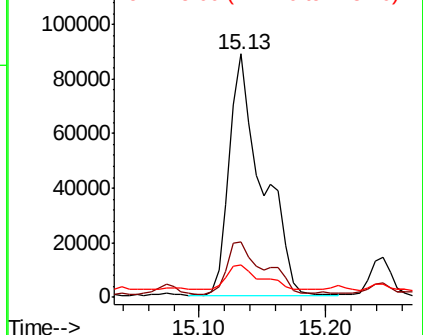


Abundance

Ion 252.00 (251.70 to 252.70): E

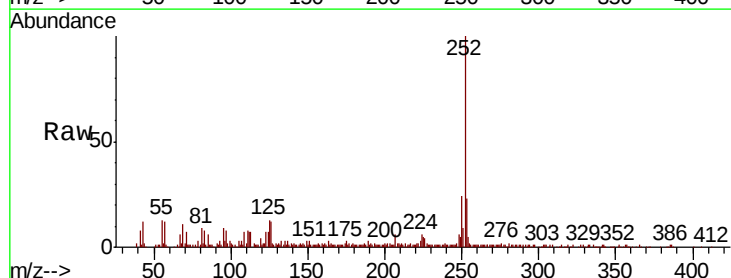
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89
Benzo(k)fluoranthene
Concen: 6.844 ng
RT: 15.13 min Scan# 2218
Delta R.T. -0.04 min
Lab File: BF118043.D
Acq: 27 Nov 2019 16:20

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.5	26.3
125	13.5	7.9	11.9

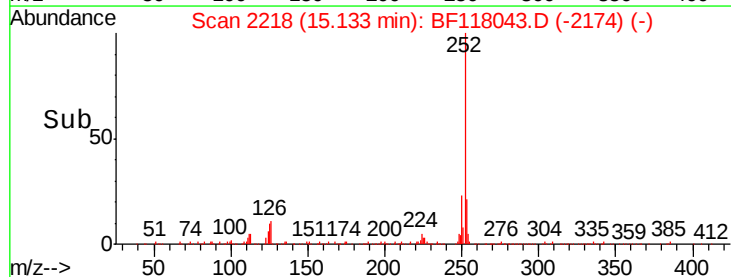
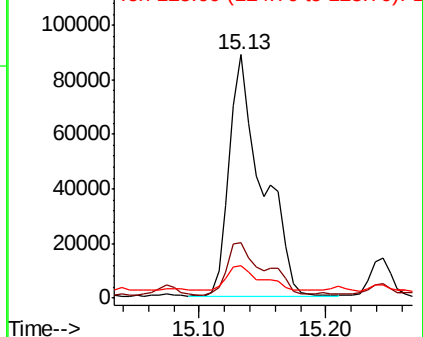


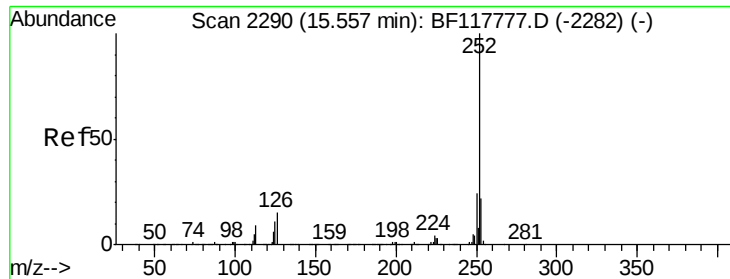
Abundance

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





#90

Benzo(a)pyrene

Concen: 4.075 ng

RT: 15.51 min Scan# 2282

Delta R.T. -0.01 min

Lab File: BF118043.D

Acq: 27 Nov 2019 16:20

Instrument :

BNA_F

ClientSampled :

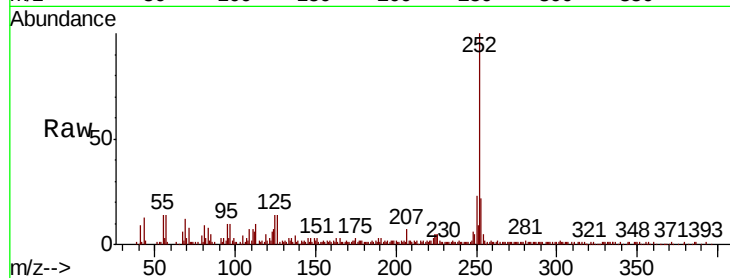
Tot Ion:252 Resp: 88515

Ion Ratio Lower Upper

252 100

253 22.3 17.8 26.6

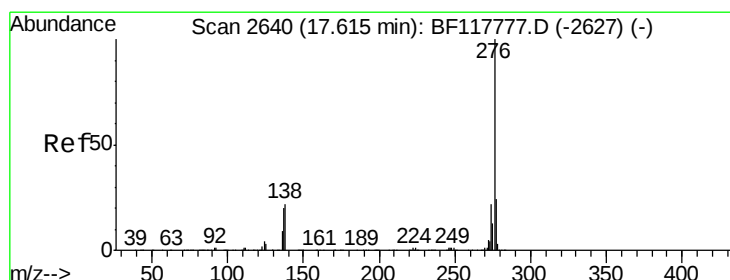
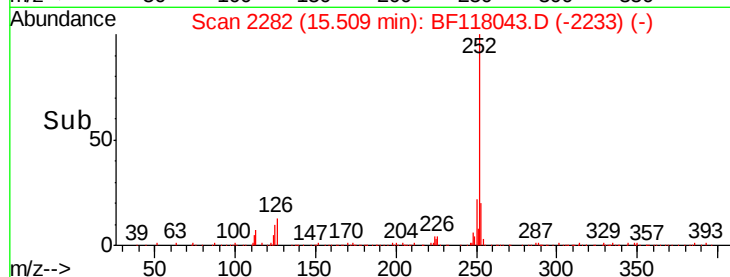
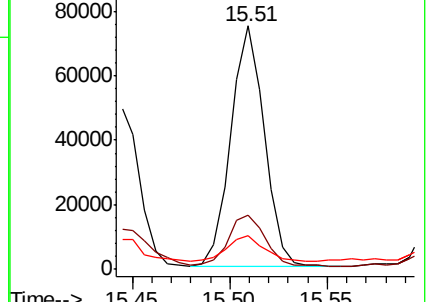
125 13.7 9.2 13.8



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#92

Benzo(g,h,i)perylene

Concen: 2.571 ng

RT: 17.54 min Scan# 2628

Delta R.T. -0.01 min

Lab File: BF118043.D

Acq: 27 Nov 2019 16:20

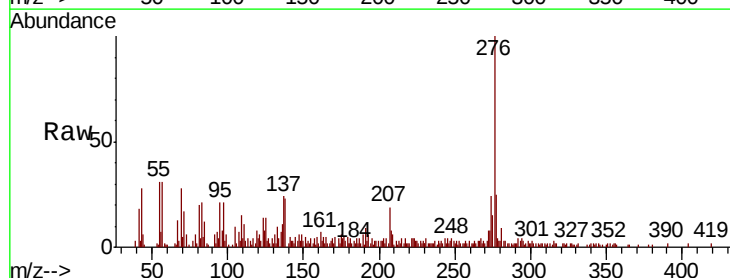
Tgt Ion:276 Resp: 47886

Ion Ratio Lower Upper

276 100

277 24.8 18.9 28.3

138 23.3 17.4 26.2



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

