

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF041620\
 Data File : BF120039.D
 Acq On : 16 Apr 2020 16:36
 Operator : MA/SJ
 Sample : L2230-67 5X
 Misc :
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-40-41-42

Quant Time: Apr 17 01:23:59 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF040820.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Apr 16 10:48:04 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	124331	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	459428	20.00	ng	0.00
39) Acenaphthene-d10	9.76	164	230439	20.00	ng	0.00
64) Phenanthrene-d10	11.25	188	330493	20.00	ng	0.00
76) Chrysene-d12	13.89	240	267726	20.00	ng	0.00
87) Perylene-d12	15.32	264	231380	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.32	112	157707	21.92	ng	0.00
7) Phenol-d6	6.35	99	207009	22.33	ng	-0.01
23) Nitrobenzene-d5	7.28	82	122795	13.83	ng	-0.02
42) 2,4,6-Tribromophenol	10.55	330	32745	11.61	ng	-0.01
45) 2-Fluorobiphenyl	9.09	172	261835	16.13	ng	0.00
79) Terphenyl-d14	12.84	244	196928	12.38	ng	-0.01

Target Compounds

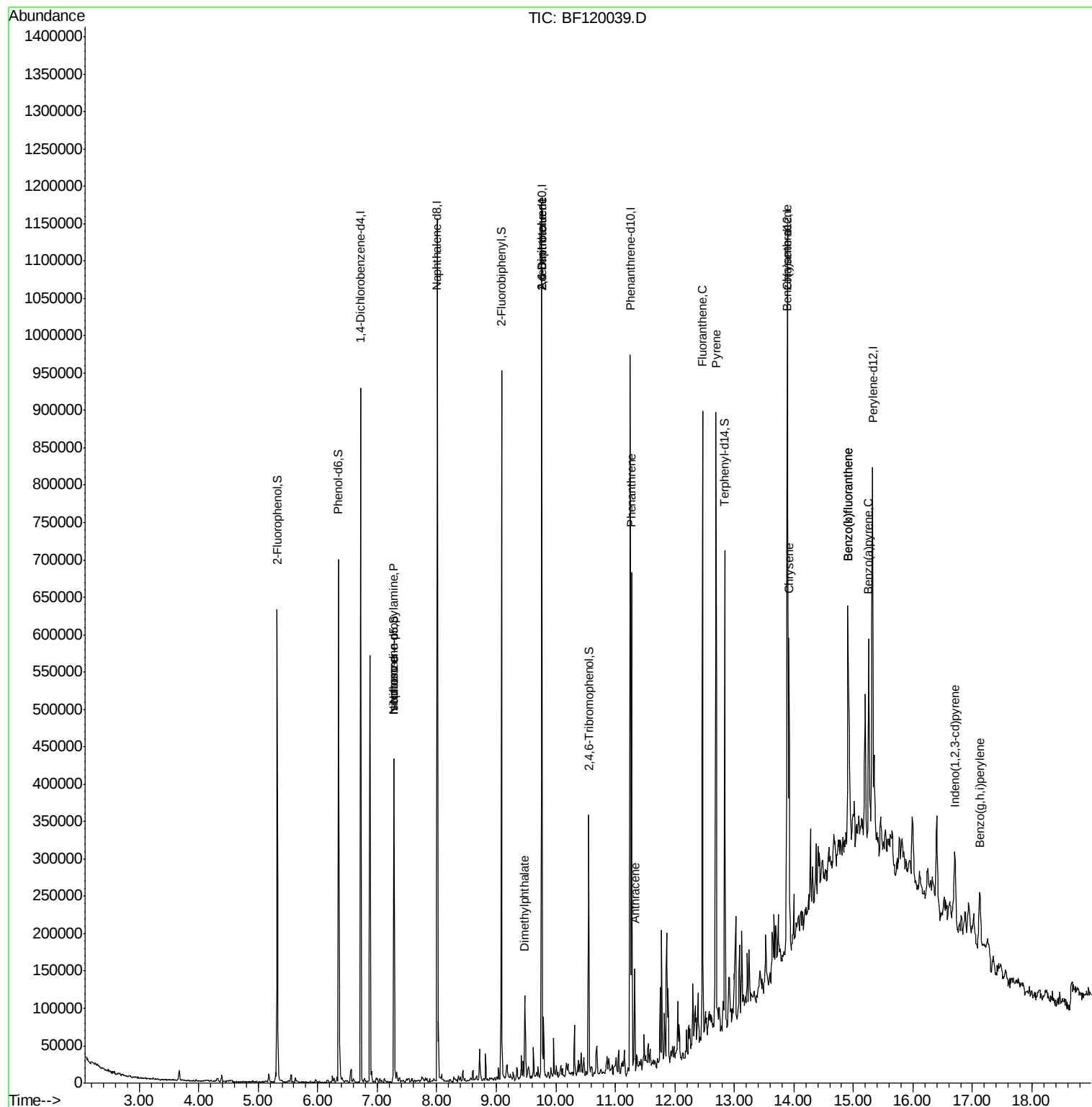
						Qvalue
9) Benzaldehyde	6.27	77	493	Below Cal	#	1
19) n-Nitroso-di-n-propylamine	7.28	70	15766	2.645	ng	# 82
25) Isophorone	7.28	82	119996	7.009	ng	# 65
50) Dimethylphthalate	9.48	163	39105	2.194	ng	# 95
51) 2,6-Dinitrotoluene	9.76	165	30671	7.858	ng	# 19
57) 2,4-Dinitrotoluene	9.76	165	30671	5.964	ng	# 22
71) Phenanthrene	11.27	178	219028	12.452	ng	99
72) Anthracene	11.33	178	51976	2.893	ng	96
75) Fluoranthene	12.46	202	310998	16.387	ng	99
78) Pyrene	12.69	202	330171	14.629	ng	99
81) Benzo(a)anthracene	13.88	228	176660	10.030	ng	98
83) Chrysene	13.92	228	156046	8.720	ng	97
86) Indeno(1,2,3-cd)pyrene	16.70	276	61008	3.867	ng	97
88) Benzo(b)fluoranthene	14.91	252	217506	13.067	ng	# 97
89) Benzo(k)fluoranthene	14.91	252	217506	15.145	ng	# 97
90) Benzo(a)pyrene	15.26	252	123560	8.829	ng	# 97
92) Benzo(a,h,i)perylene	17.12	276	56389	4.608	ng	# 92

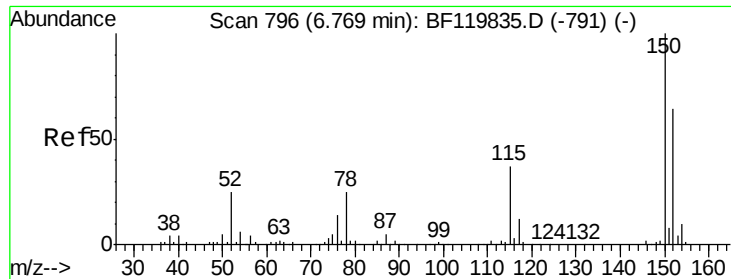
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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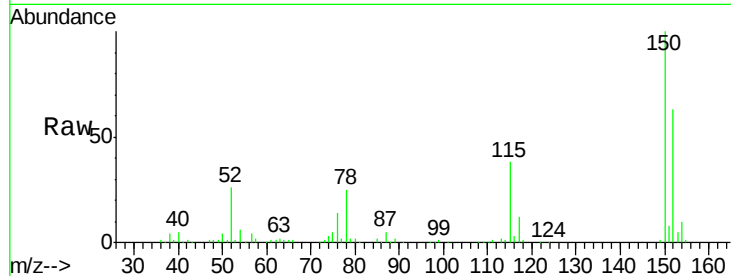


#1

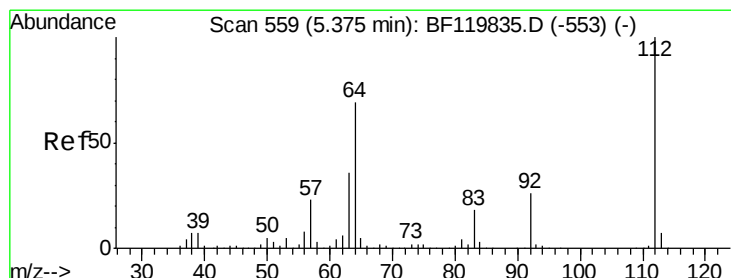
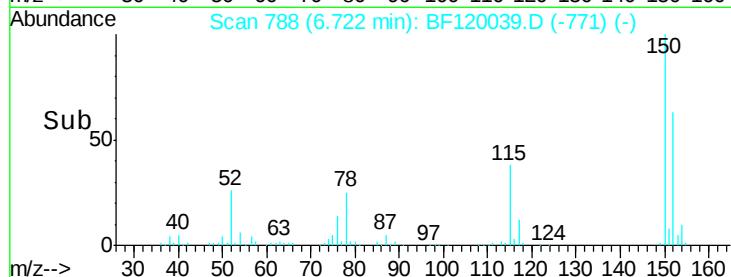
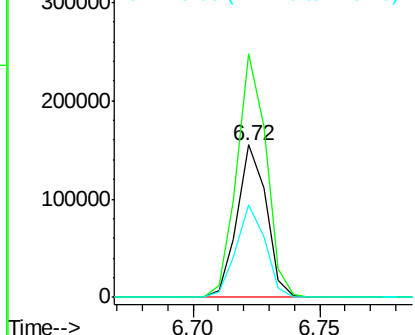
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.72 min Scan# 788
Delta R.T. 0.00 min
Lab File: BF120039.D
Acq: 16 Apr 2020 16:36

Instrument :
BNA_F
ClientSampleId :
TP-40-41-42

Tot Ion:152 Resp: 124331
Ion Ratio Lower Upper
152 100
150 159.9 124.8 187.2
115 61.0 46.5 69.7



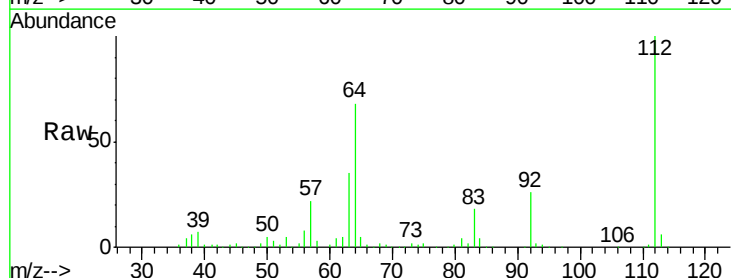
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



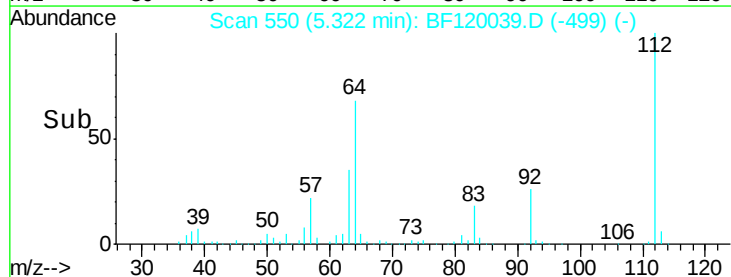
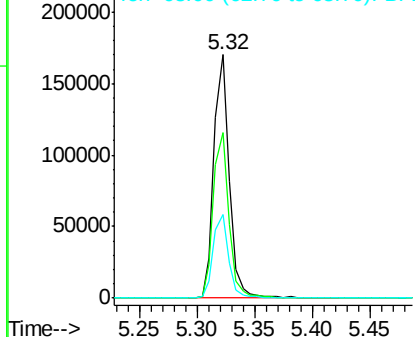
#5

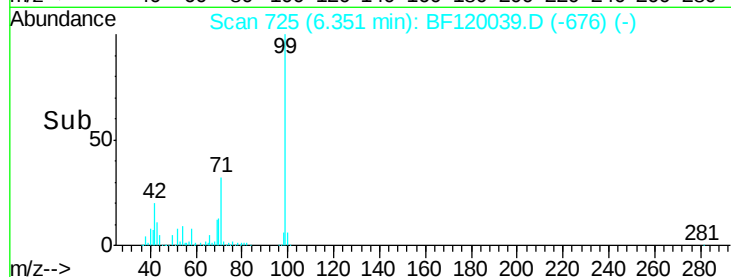
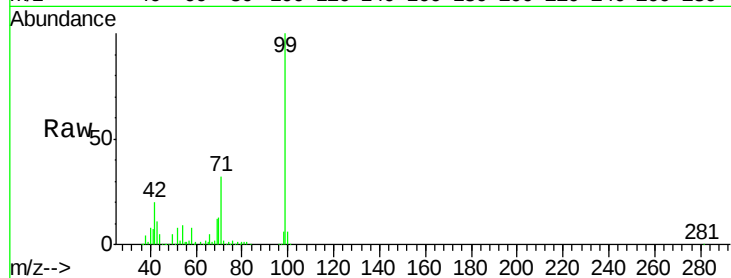
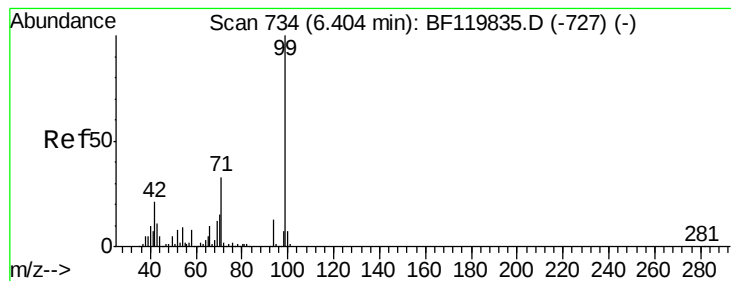
2-Fluorophenol
Concen: 21.921 ng
RT: 5.32 min Scan# 550
Delta R.T. 0.00 min
Lab File: BF120039.D
Acq: 16 Apr 2020 16:36

Tgt Ion:112 Resp: 157707
Ion Ratio Lower Upper
112 100
64 68.2 55.5 83.3
63 34.5 29.1 43.7



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: 22.331 ng

RT: 6.35 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF120039.D

Acq: 16 Apr 2020 16:36

Instrument :

BNA_F

ClientSampleId :

TP-40-41-42

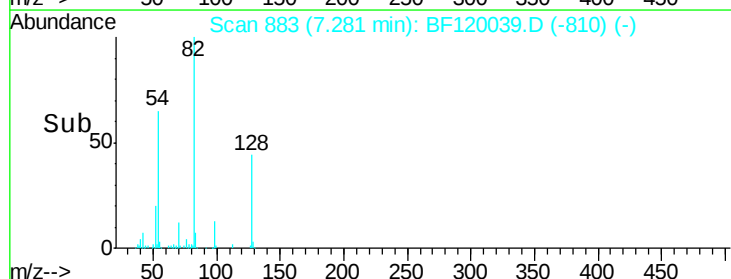
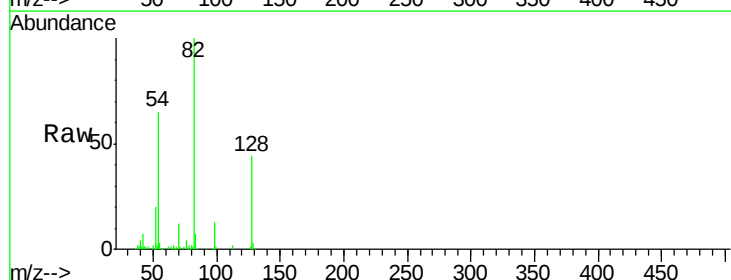
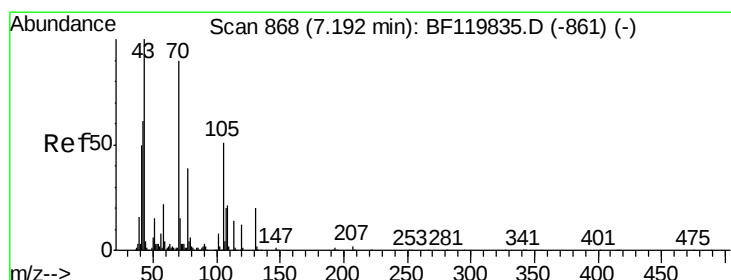
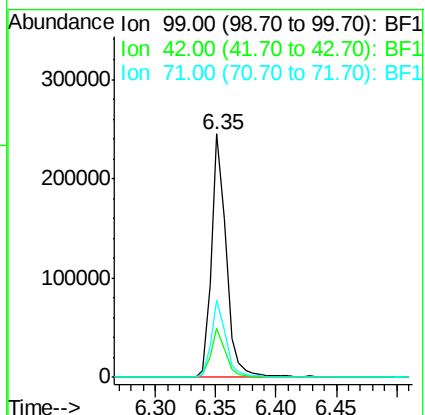
Tot Ion: 99 Resp: 207009

Ion Ratio Lower Upper

99 100

42 19.9 16.9 25.3

71 31.9 26.3 39.5



#19

n-Nitroso-di-n-propylamine

Concen: 2.645 ng

RT: 7.28 min Scan# 883

Delta R.T. 0.13 min

Lab File: BF120039.D

Acq: 16 Apr 2020 16:36

Tgt Ion: 70 Resp: 15766

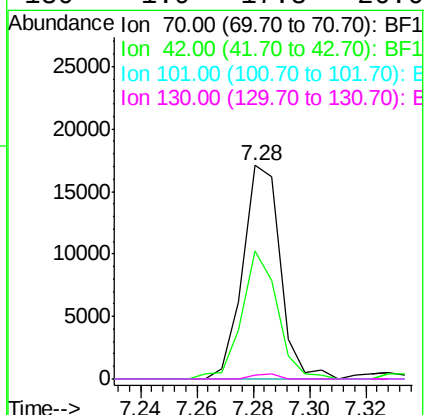
Ion Ratio Lower Upper

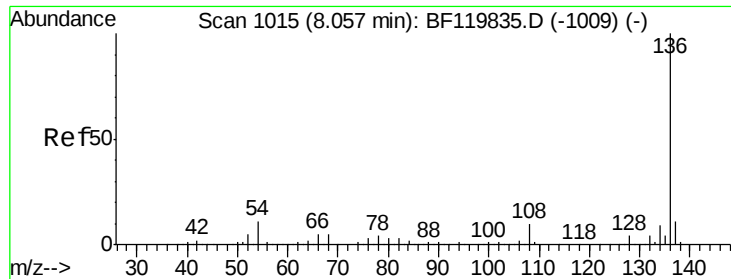
70 100

42 60.1 54.2 81.4

101 0.0 7.4 11.2#

130 1.9 17.8 26.6#

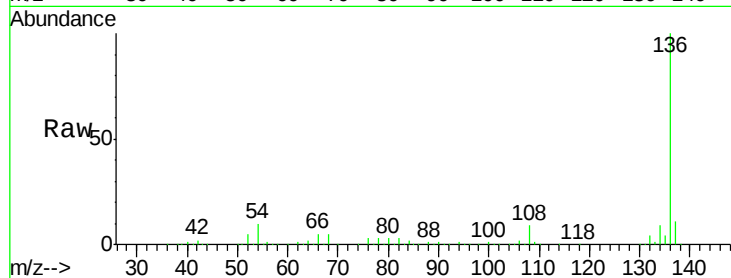




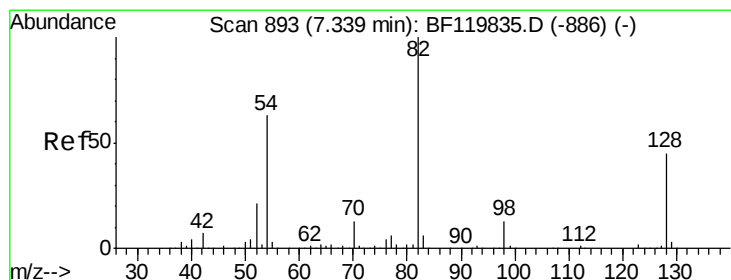
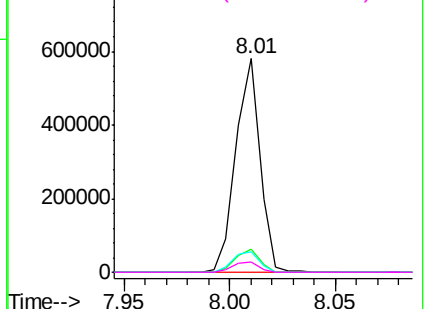
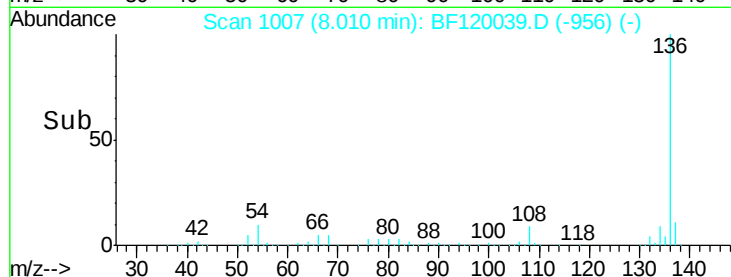
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.01 min Scan# 1007
Delta R.T. 0.00 min
Lab File: BF120039.D
Acq: 16 Apr 2020 16:36

Instrument :
BNA_F
ClientSampleId :
TP-40-41-42

Tot Ion:136 Resp: 459428
Ion Ratio Lower Upper
136 100
137 10.6 8.7 13.1
54 9.7 8.5 12.7
68 4.7 3.9 5.9

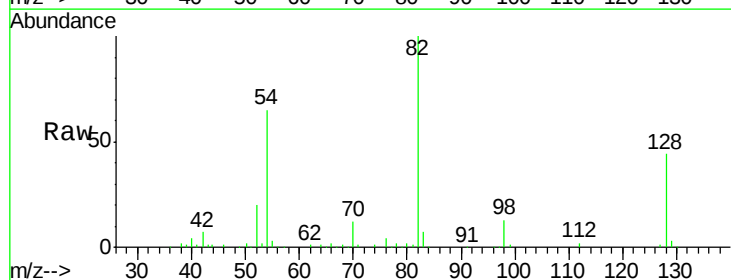


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

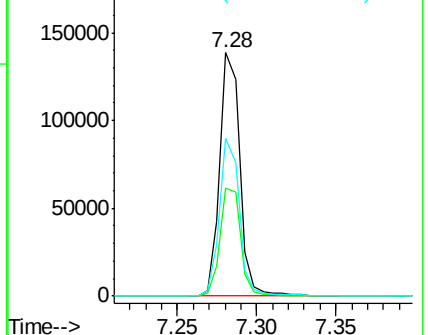
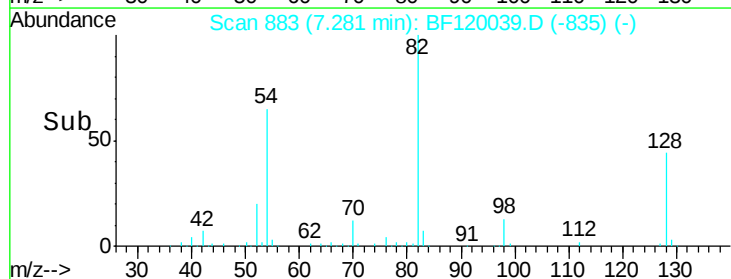


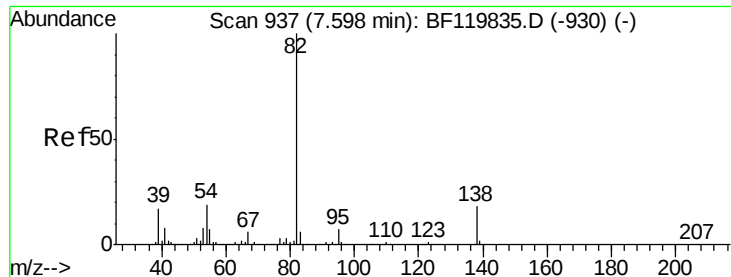
#23
Nitrobenzene-d5
Concen: 13.827 ng
RT: 7.28 min Scan# 883
Delta R.T. -0.02 min
Lab File: BF120039.D
Acq: 16 Apr 2020 16:36

Tgt Ion: 82 Resp: 122795
Ion Ratio Lower Upper
82 100
128 44.2 36.2 54.4
54 64.8 50.4 75.6



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: 7.009 ng

RT: 7.28 min Scan# 883

Delta R.T. -0.28 min

Lab File: BF120039.D

Acq: 16 Apr 2020 16:36

Instrument :

BNA_F

ClientSampleId :

TP-40-41-42

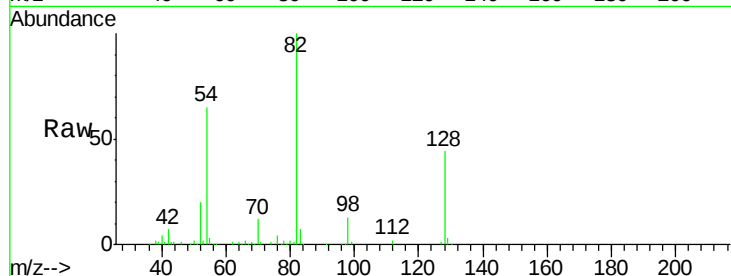
Tot Ion: 82 Resp: 119996

Ion Ratio Lower Upper

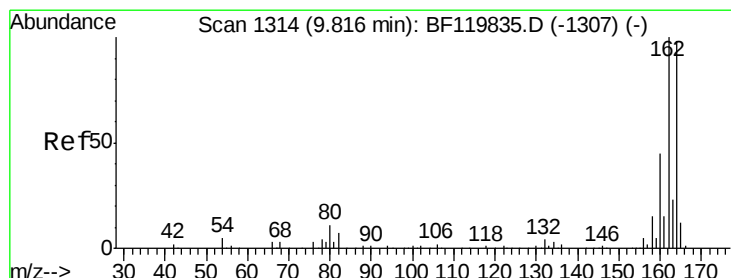
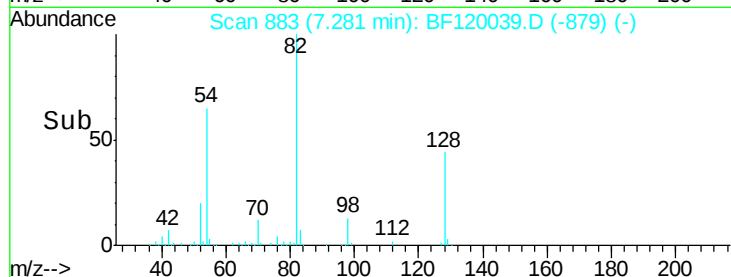
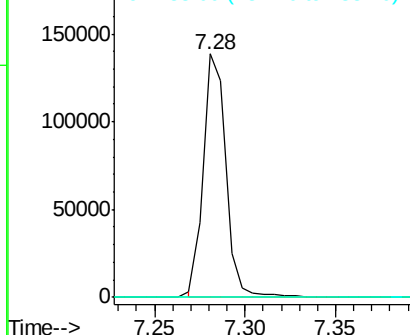
82 100

95 0.0 5.8 8.6#

138 0.0 14.5 21.7#



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): BF1



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.76 min Scan# 1305

Delta R.T. -0.01 min

Lab File: BF120039.D

Acq: 16 Apr 2020 16:36

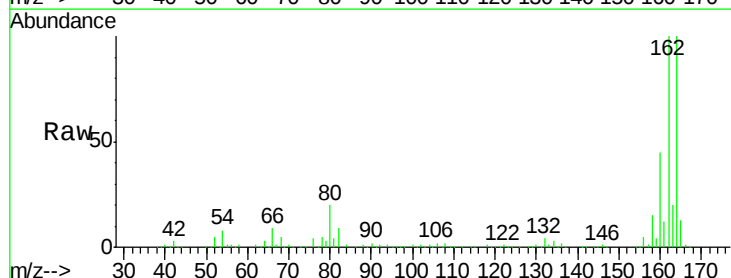
Tgt Ion:164 Resp: 230439

Ion Ratio Lower Upper

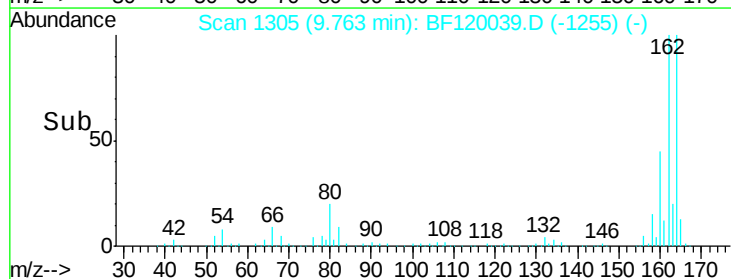
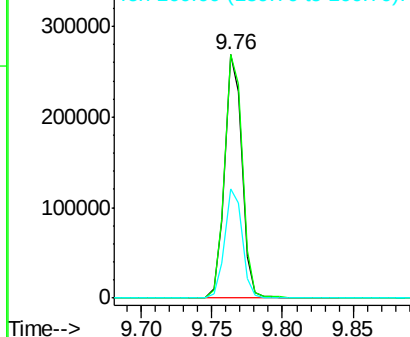
164 100

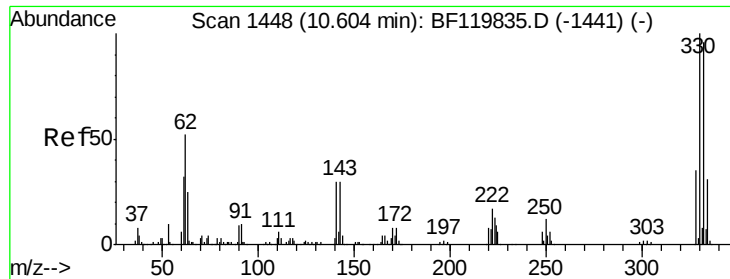
162 100.1 81.9 122.9

160 45.1 36.6 54.8



Abundance Ion 164.00 (163.70 to 164.70): BF1
Ion 162.00 (161.70 to 162.70): BF1
Ion 160.00 (159.70 to 160.70): BF1

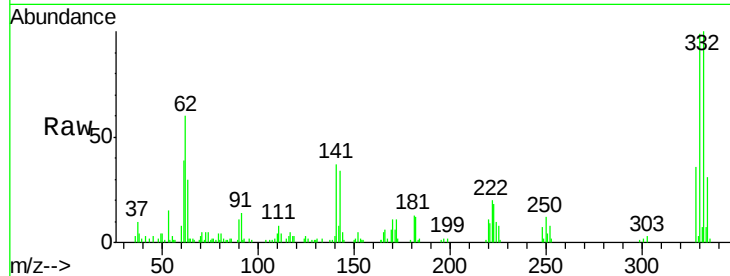




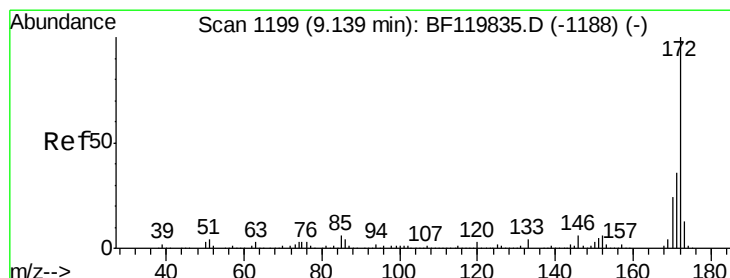
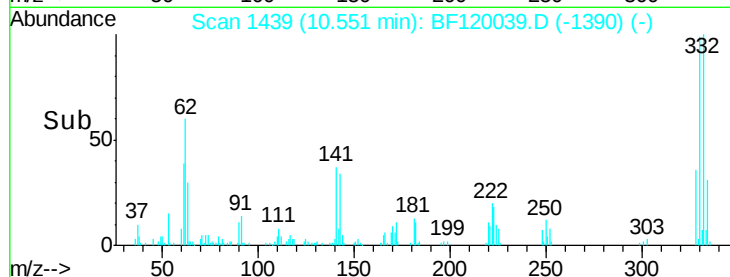
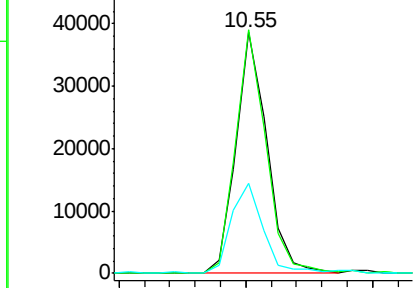
#42
 2,4,6-Tribromophenol
 Concen: 11.606 ng
 RT: 10.55 min Scan# 1439
 Delta R.T. -0.01 min
 Lab File: BF120039.D
 Acq: 16 Apr 2020 16:36

Instrument :
 BNA_F
 ClientSampleId :
 TP-40-41-42

Tot Ion:330 Resp: 32745
 Ion Ratio Lower Upper
 330 100
 332 99.8 76.8 115.2
 141 39.7 25.1 37.7#

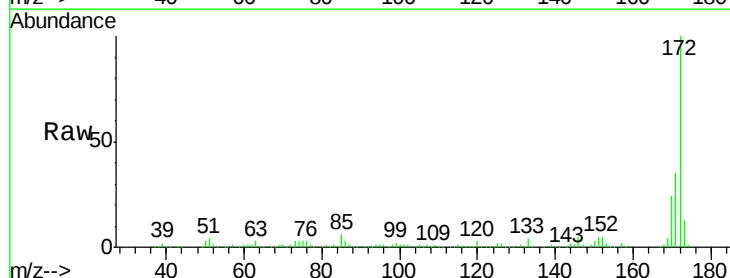


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

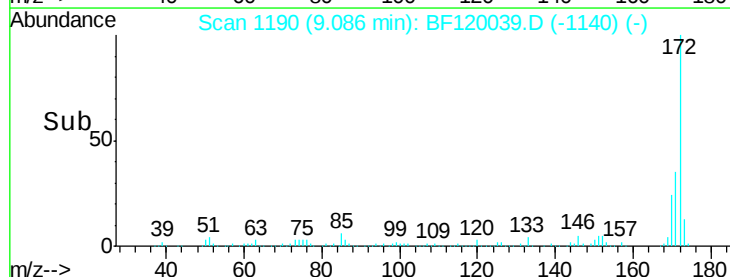
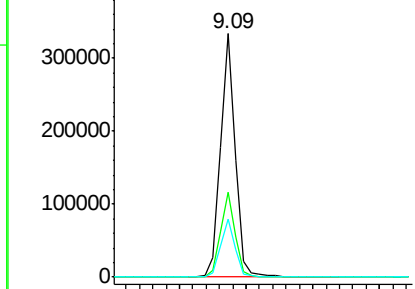


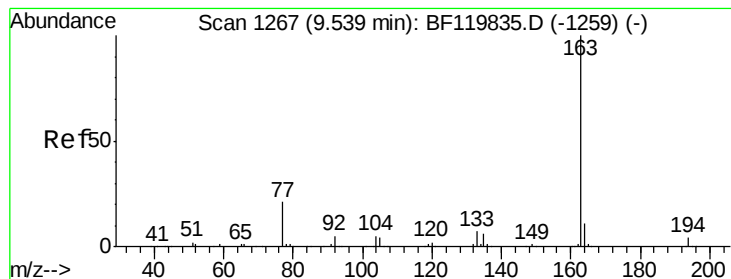
#45
 2-Fluorobiphenyl
 Concen: 16.132 ng
 RT: 9.09 min Scan# 1190
 Delta R.T. -0.01 min
 Lab File: BF120039.D
 Acq: 16 Apr 2020 16:36

Tgt Ion:172 Resp: 261835
 Ion Ratio Lower Upper
 172 100
 171 35.0 28.9 43.3
 170 23.9 19.4 29.2



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





#50

Dimethylphthalate

Concen: 2.194 ng

RT: 9.48 min Scan# 1257

Delta R.T. -0.02 min

Lab File: BF120039.D

Acq: 16 Apr 2020 16:36

Instrument :

BNA_F

ClientSampleId :

TP-40-41-42

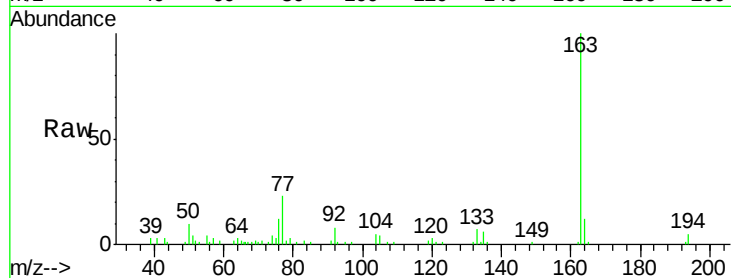
Tot Ion:163 Resp: 39105

Ion Ratio Lower Upper

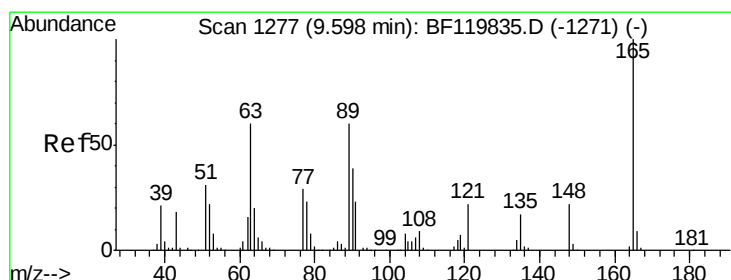
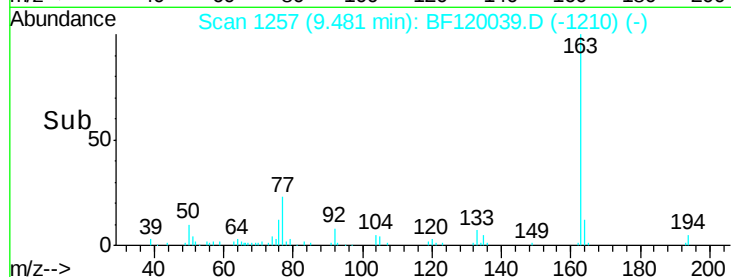
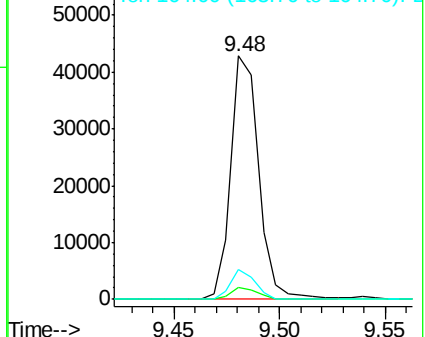
163 100

194 4.7 3.0 4.4#

164 12.4 8.4 12.6



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E



#51

2,6-Dinitrotoluene

Concen: 7.858 ng

RT: 9.76 min Scan# 1305

Delta R.T. 0.20 min

Lab File: BF120039.D

Acq: 16 Apr 2020 16:36

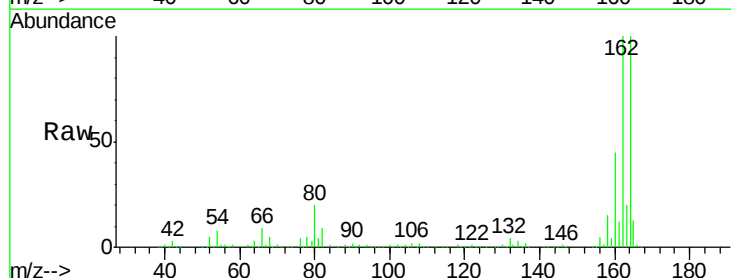
Tgt Ion:165 Resp: 30671

Ion Ratio Lower Upper

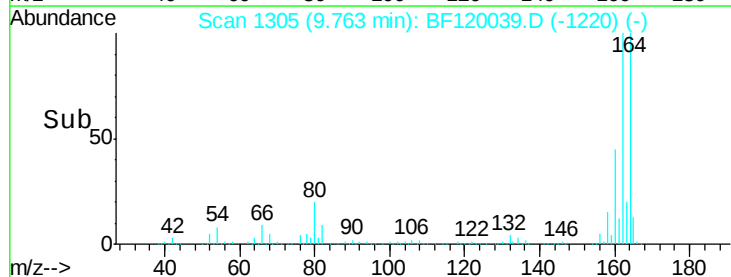
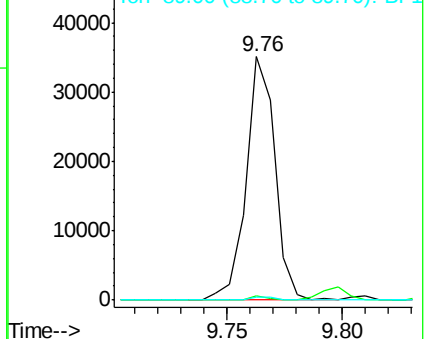
165 100

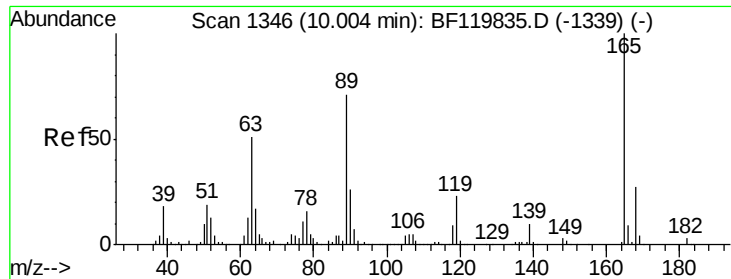
63 1.5 55.6 83.4#

89 1.1 47.9 71.9#



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

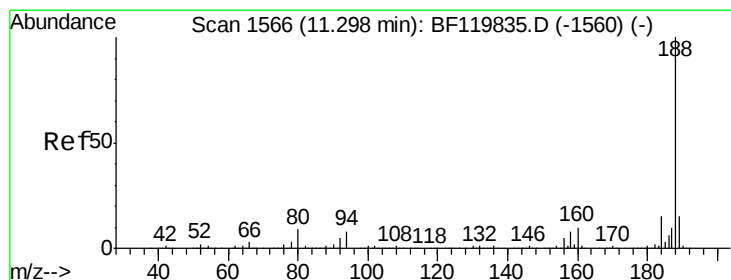
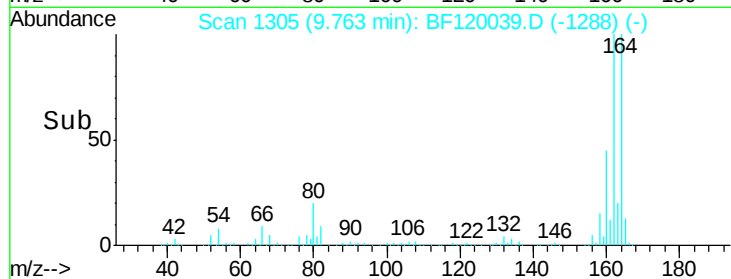
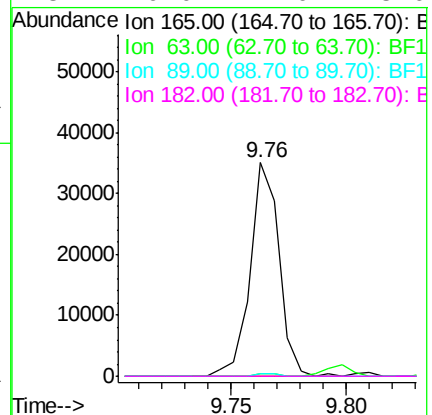
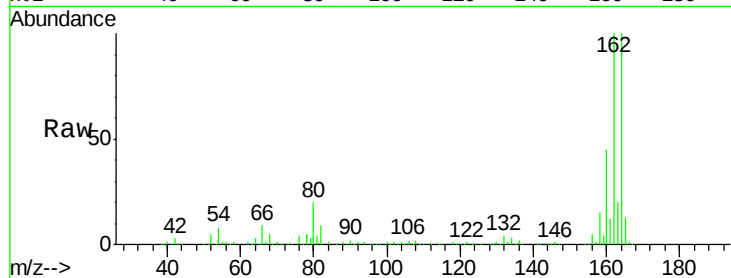




#57
 2,4-Dinitrotoluene
 Concen: 5.964 ng
 RT: 9.76 min Scan# 1305
 Delta R.T. -0.20 min
 Lab File: BF120039.D
 Acq: 16 Apr 2020 16:36

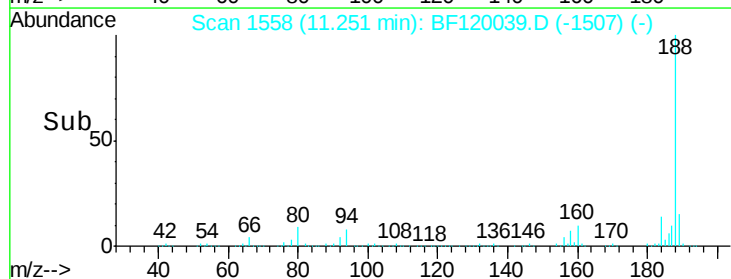
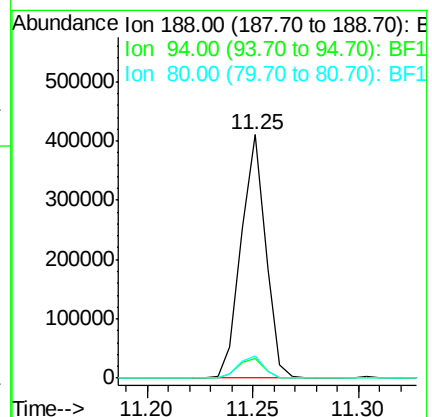
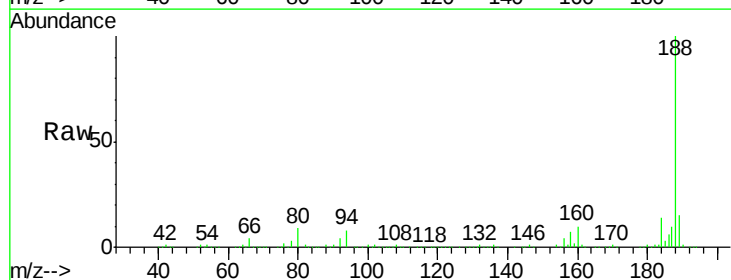
Instrument :
 BNA_F
 ClientSampleId :
 TP-40-41-42

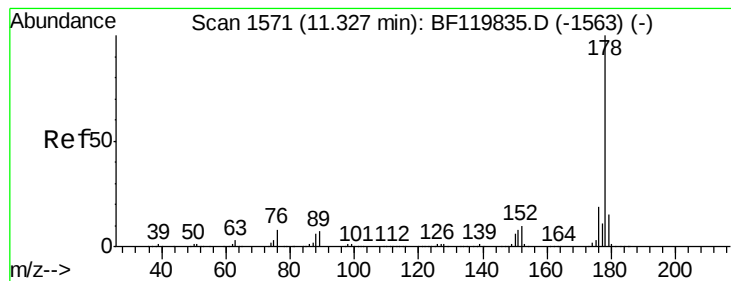
Tot Ion:165 Resp: 30671
 Ion Ratio Lower Upper
 165 100
 63 1.5 40.8 61.2#
 89 1.1 56.9 85.3#
 182 0.0 2.0 3.0#



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.25 min Scan# 1558
 Delta R.T. 0.00 min
 Lab File: BF120039.D
 Acq: 16 Apr 2020 16:36

Tgt Ion:188 Resp: 330493
 Ion Ratio Lower Upper
 188 100
 94 8.3 6.7 10.1
 80 9.2 7.4 11.2





#71

Phenanthrene

Concen: 12.452 ng

RT: 11.27 min Scan# 1562

Delta R.T. -0.01 min

Lab File: BF120039.D

Acq: 16 Apr 2020 16:36

Instrument :

BNA_F

ClientSampleId :

TP-40-41-42

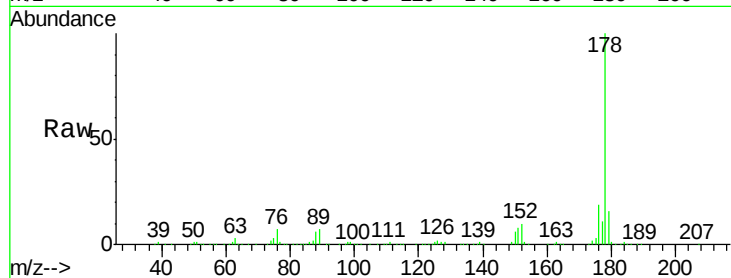
Tot Ion:178 Resp: 219028

Ion Ratio Lower Upper

178 100

176 18.9 15.1 22.7

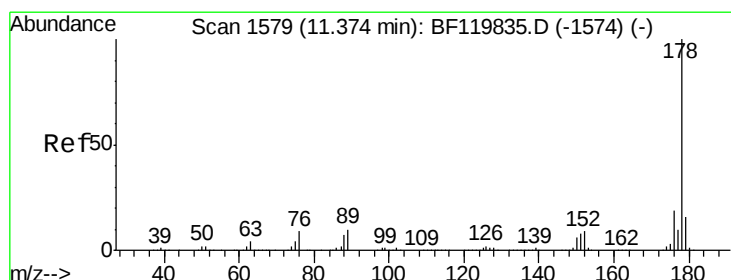
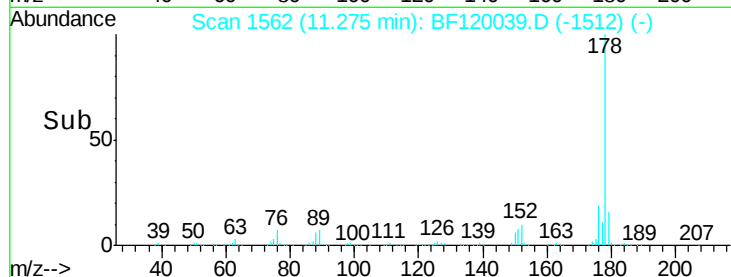
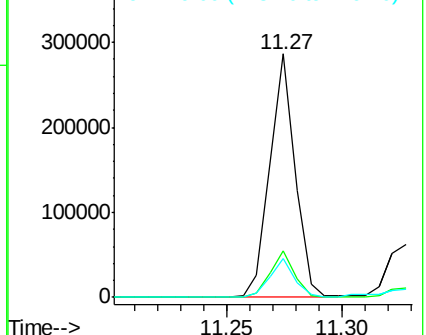
179 16.1 12.2 18.4



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



#72

Anthracene

Concen: 2.893 ng

RT: 11.33 min Scan# 1571

Delta R.T. -0.01 min

Lab File: BF120039.D

Acq: 16 Apr 2020 16:36

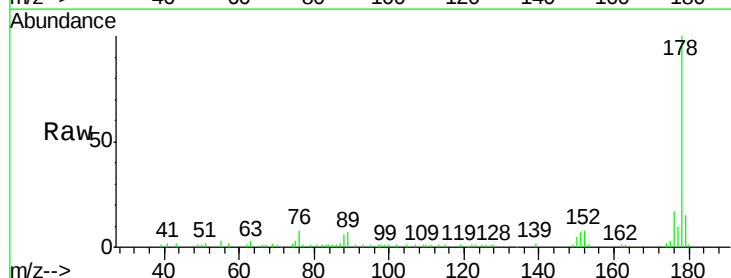
Tgt Ion:178 Resp: 51976

Ion Ratio Lower Upper

178 100

176 17.2 15.4 23.2

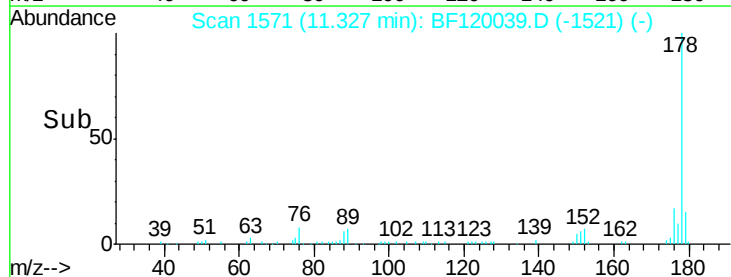
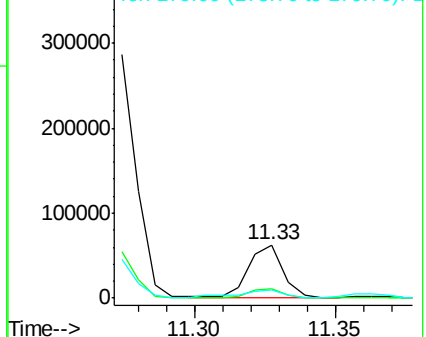
179 15.0 12.8 19.2

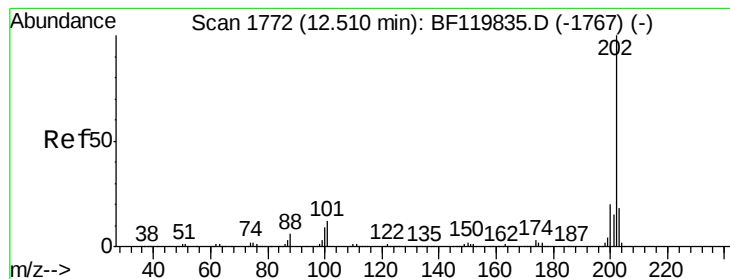


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 16.387 ng

RT: 12.46 min Scan# 1764

Delta R.T. -0.01 min

Lab File: BF120039.D

Acq: 16 Apr 2020 16:36

Instrument :

BNA_F

ClientSampleId :

TP-40-41-42

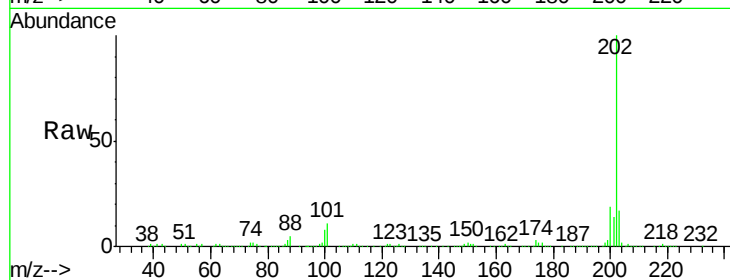
Tot Ion:202 Resp: 310998

Ion	Ratio	Lower	Upper
202	100		
101	11.0	0.0	32.3
203	17.5	0.0	37.6

202 100

101 11.0 0.0 32.3

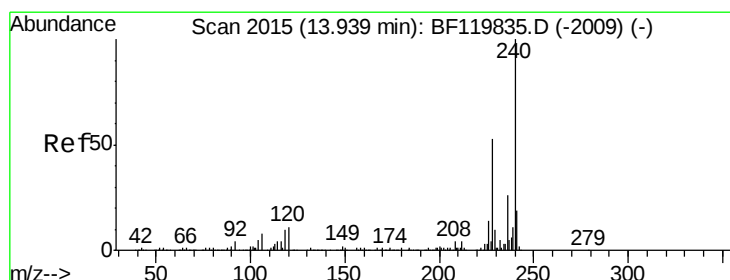
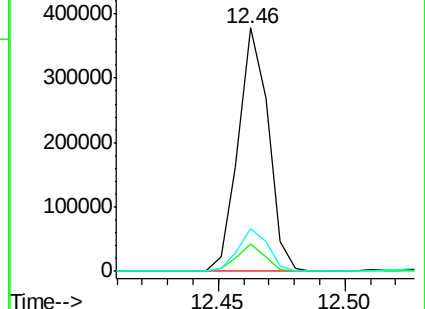
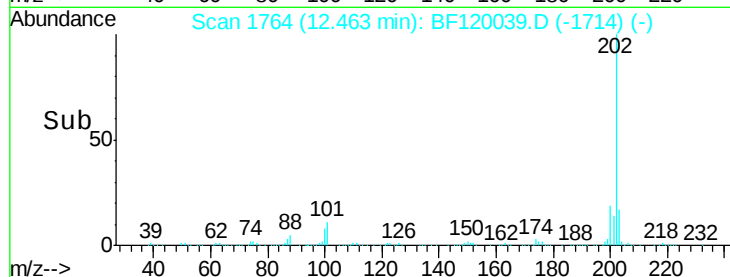
203 17.5 0.0 37.6



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: 13.89 min Scan# 2007

Delta R.T. -0.01 min

Lab File: BF120039.D

Acq: 16 Apr 2020 16:36

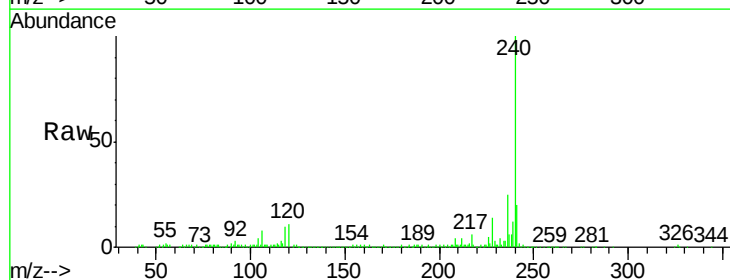
Tgt Ion:240 Resp: 267726

Ion	Ratio	Lower	Upper
240	100		
120	10.9	9.0	13.6
236	25.5	20.7	31.1

240 100

120 10.9 9.0 13.6

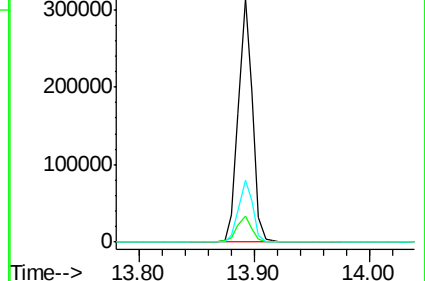
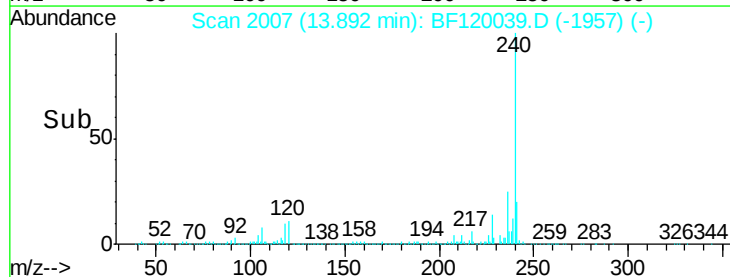
236 25.5 20.7 31.1

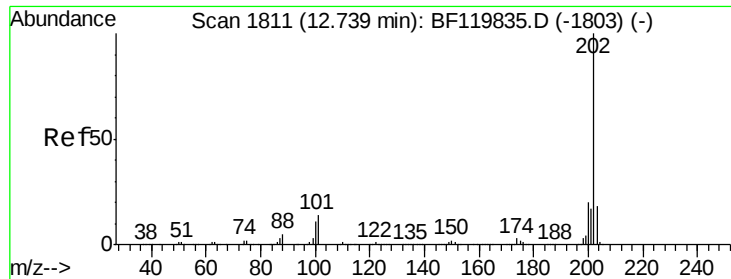


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

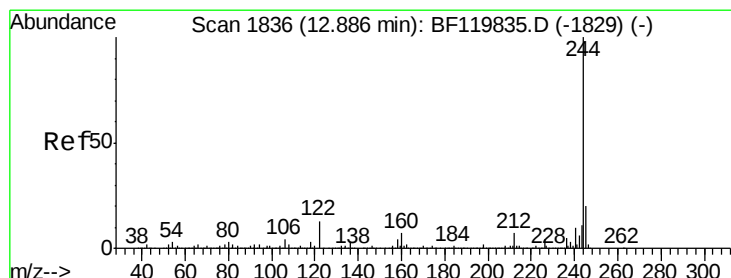
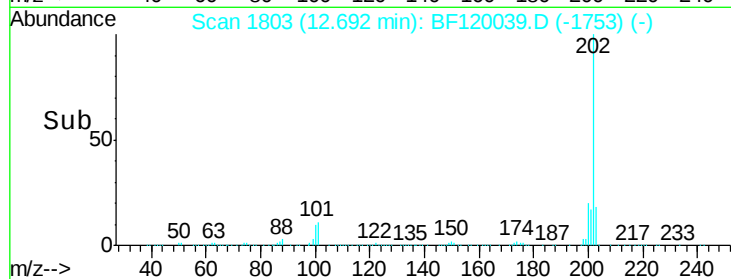
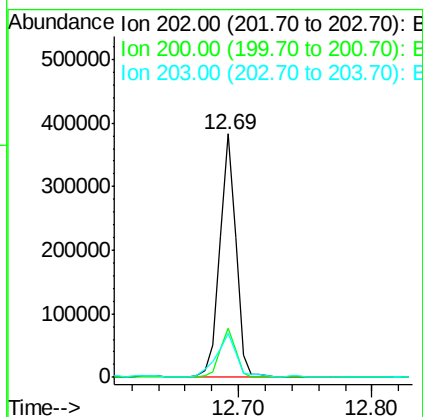
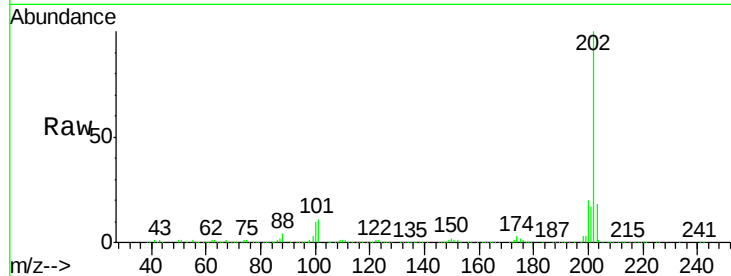




#78
Pvrene
Concen: 14.629 ng
RT: 12.69 min Scan# 1803
Delta R.T. -0.01 min
Lab File: BF120039.D
Acq: 16 Apr 2020 16:36

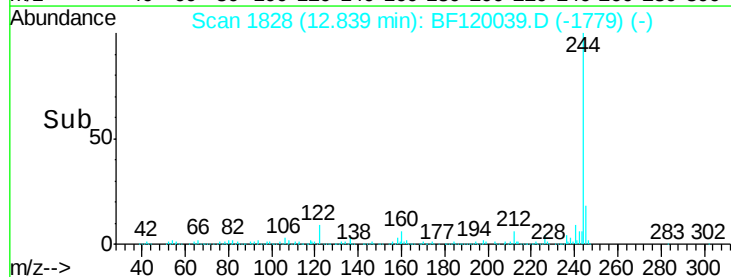
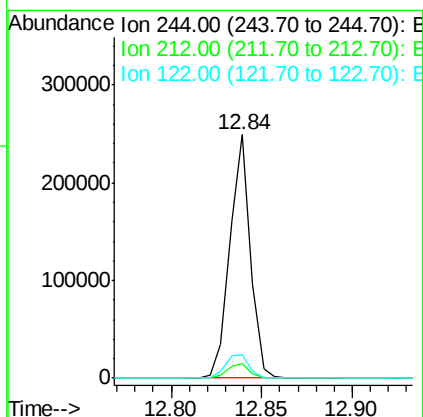
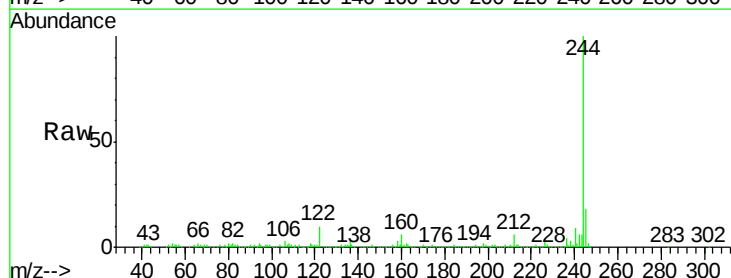
Instrument :
BNA_F
ClientSampleId :
TP-40-41-42

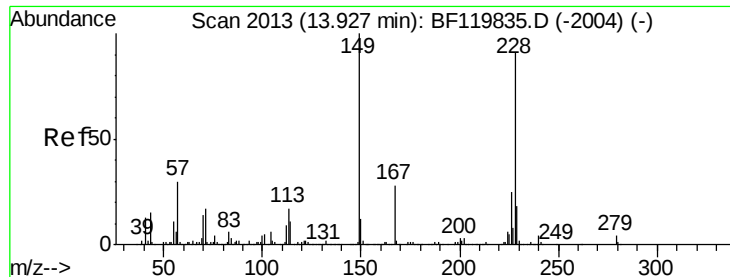
Tot Ion:202 Resp: 330171
Ion Ratio Lower Upper
202 100
200 20.2 16.2 24.2
203 18.3 14.1 21.1



#79
Terphenyl-d14
Concen: 12.377 ng
RT: 12.84 min Scan# 1828
Delta R.T. -0.01 min
Lab File: BF120039.D
Acq: 16 Apr 2020 16:36

Tgt Ion:244 Resp: 196928
Ion Ratio Lower Upper
244 100
212 6.1 5.4 8.0
122 9.5 10.3 15.5#

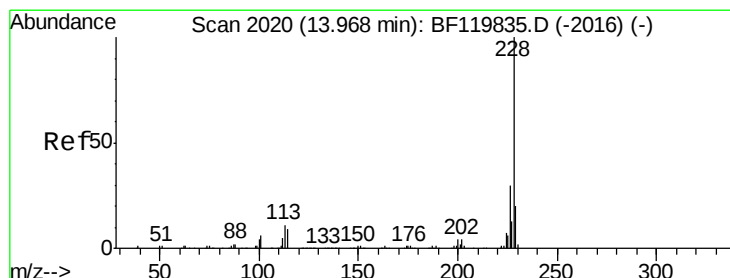
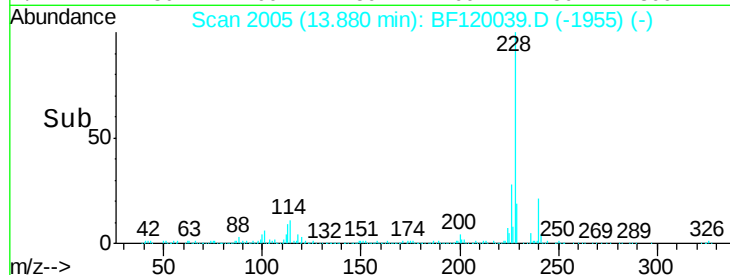
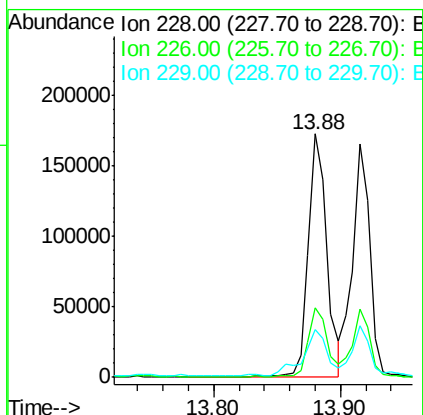
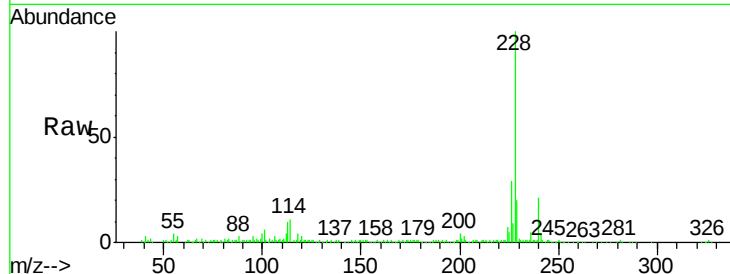




#81
Benzo(a)anthracene
Concen: 10.030 ng
RT: 13.88 min Scan# 2005
Delta R.T. -0.01 min
Lab File: BF120039.D
Acq: 16 Apr 2020 16:36

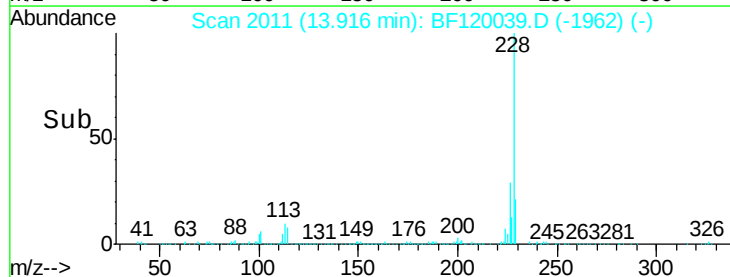
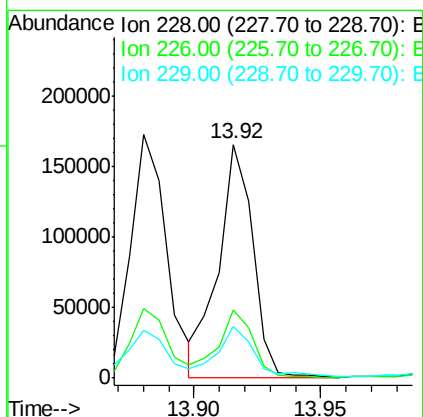
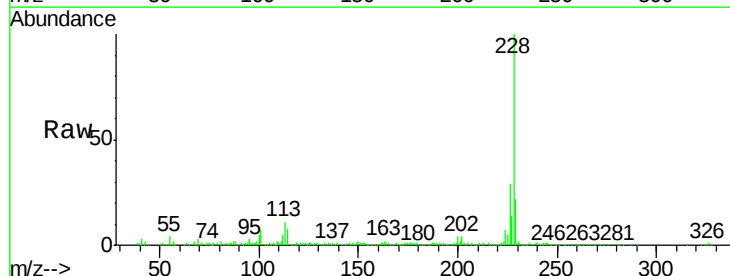
Instrument :
BNA_F
ClientSampleId :
TP-40-41-42

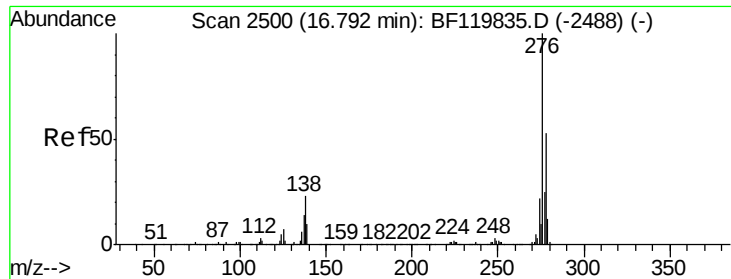
Tot Ion:228 Resp: 176660
Ion Ratio Lower Upper
228 100
226 28.8 21.9 32.9
229 19.8 15.9 23.9



#83
Chrysene
Concen: 8.720 ng
RT: 13.92 min Scan# 2011
Delta R.T. -0.01 min
Lab File: BF120039.D
Acq: 16 Apr 2020 16:36

Tgt Ion:228 Resp: 156046
Ion Ratio Lower Upper
228 100
226 29.1 24.2 36.2
229 21.8 15.9 23.9

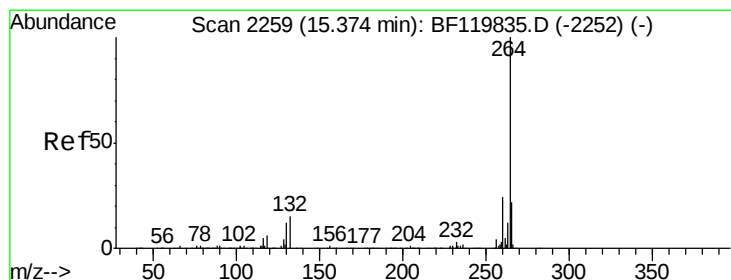
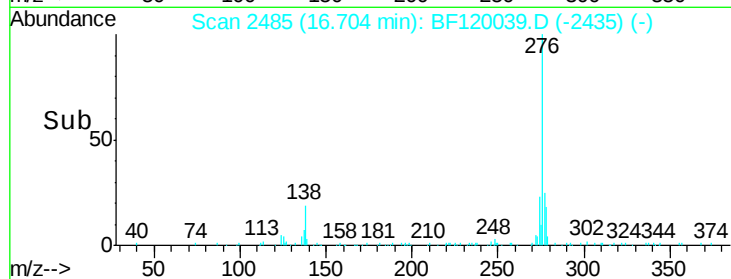
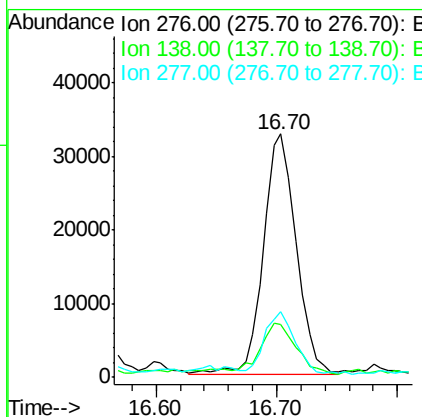
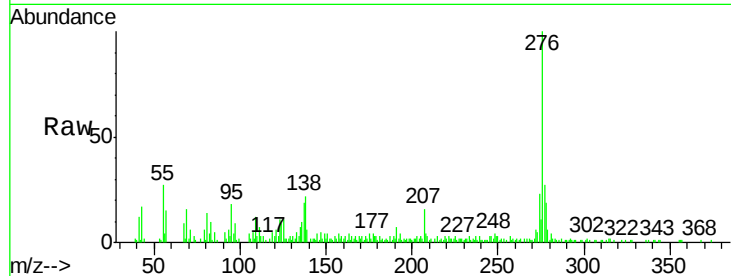




#86
Indeno(1,2,3-cd)pyrene
Concen: 3.867 ng
RT: 16.70 min Scan# 2485
Delta R.T. -0.01 min
Lab File: BF120039.D
Acq: 16 Apr 2020 16:36

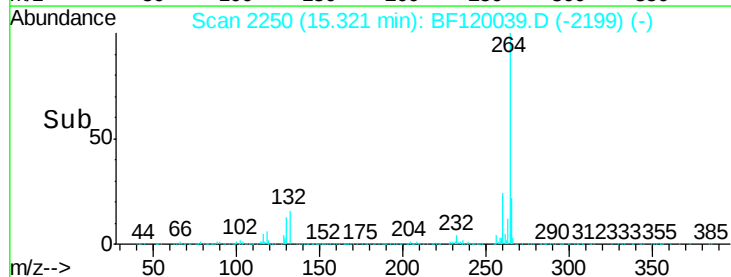
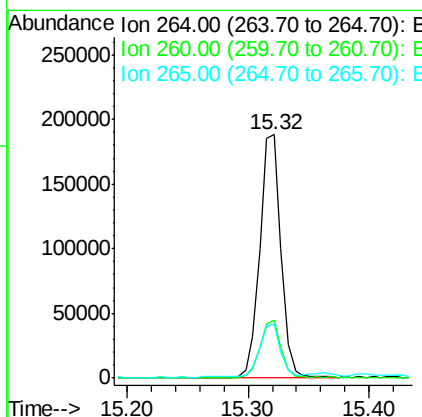
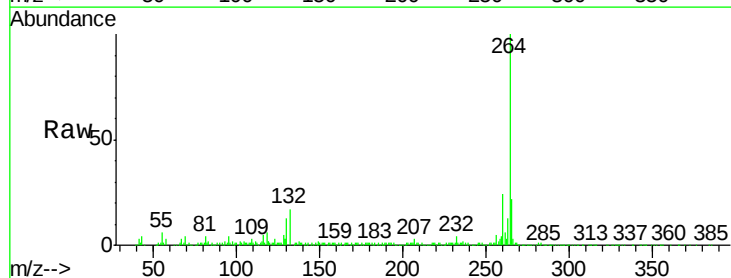
Instrument :
BNA_F
ClientSampleId :
TP-40-41-42

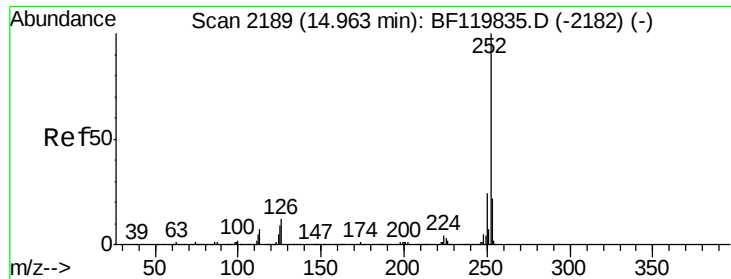
Tot Ion:276 Resp: 61008
Ion Ratio Lower Upper
276 100
138 23.4 18.0 27.0
277 23.4 20.1 30.1



#87
Perylene-d12
Concen: 20.000 ng
RT: 15.32 min Scan# 2250
Delta R.T. 0.00 min
Lab File: BF120039.D
Acq: 16 Apr 2020 16:36

Tgt Ion:264 Resp: 231380
Ion Ratio Lower Upper
264 100
260 24.0 19.3 28.9
265 22.3 17.6 26.4

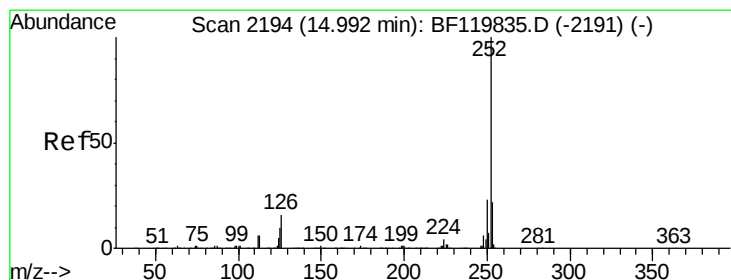
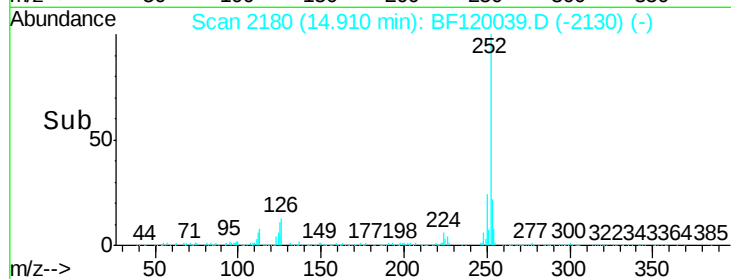
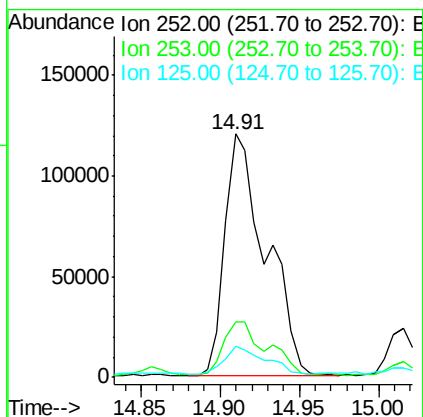
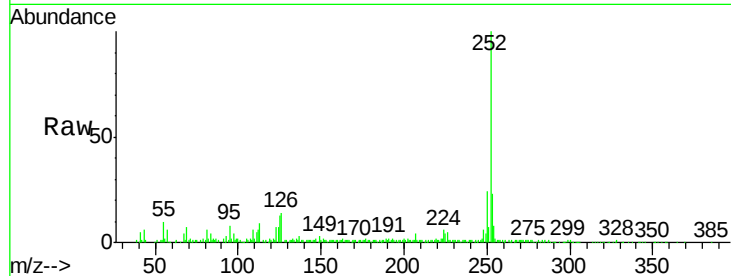




#88
Benzo(b)fluoranthene
Concen: 13.067 ng
RT: 14.91 min Scan# 2180
Delta R.T. -0.01 min
Lab File: BF120039.D
Acq: 16 Apr 2020 16:36

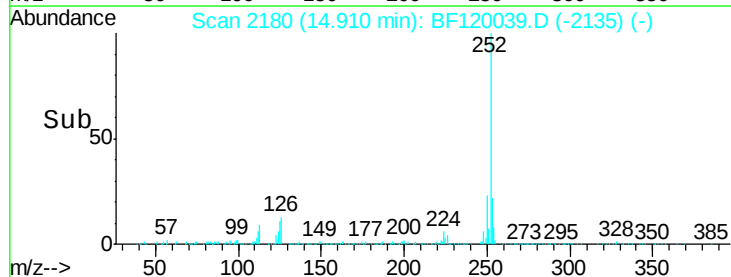
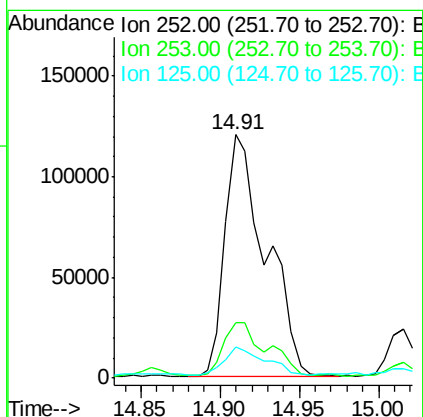
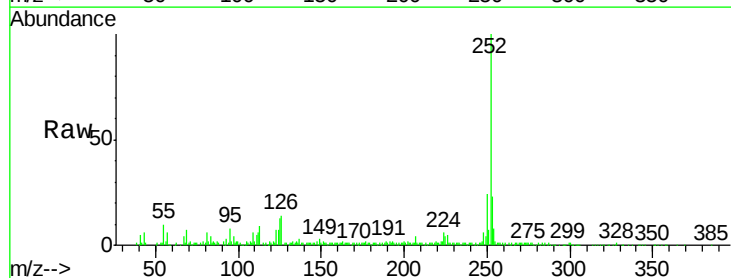
Instrument :
BNA_F
ClientSampleId :
TP-40-41-42

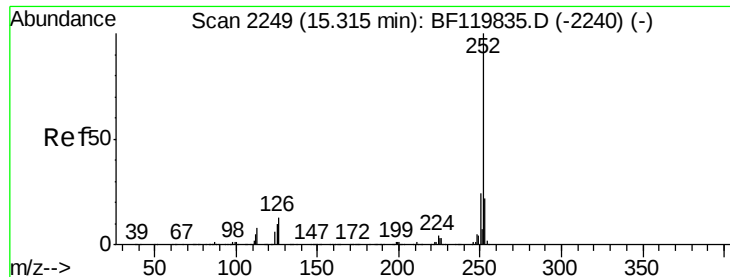
Tot Ion:252 Resp: 217506
Ion Ratio Lower Upper
252 100
253 22.6 17.7 26.5
125 12.6 7.4 11.2#



#89
Benzo(k)fluoranthene
Concen: 15.145 ng
RT: 14.91 min Scan# 2180
Delta R.T. -0.04 min
Lab File: BF120039.D
Acq: 16 Apr 2020 16:36

Tgt Ion:252 Resp: 217506
Ion Ratio Lower Upper
252 100
253 22.6 17.8 26.8
125 12.6 7.7 11.5#

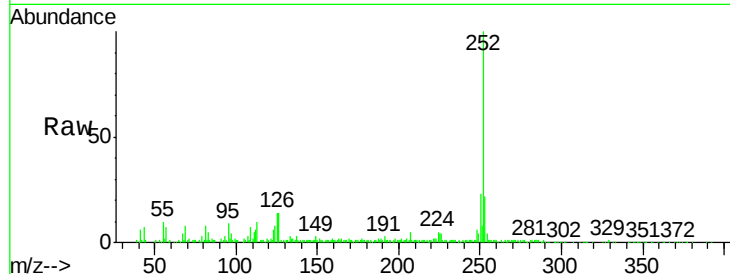




#90
Benzo(a)pyrene
Concen: 8.829 ng
RT: 15.26 min Scan# 2239
Delta R.T. -0.01 min
Lab File: BF120039.D
Acq: 16 Apr 2020 16:36

Instrument :
BNA_F
ClientSampled :
TP-40-41-42

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.2
125	14.2	8.3	12.5#

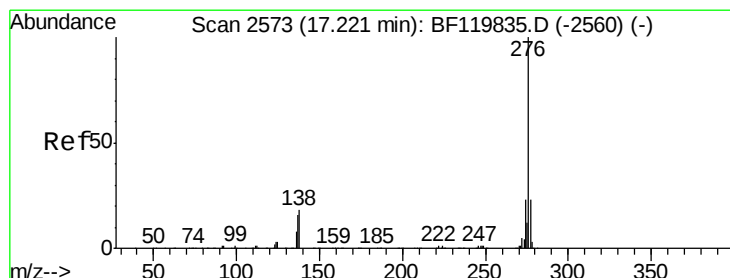
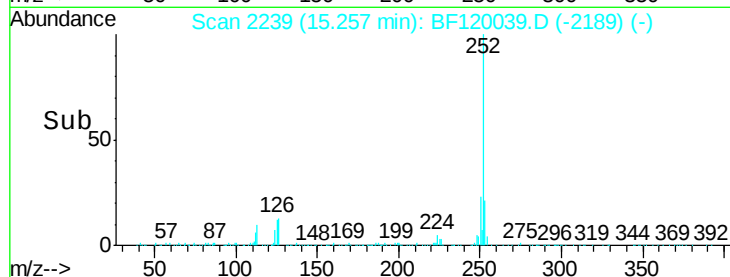
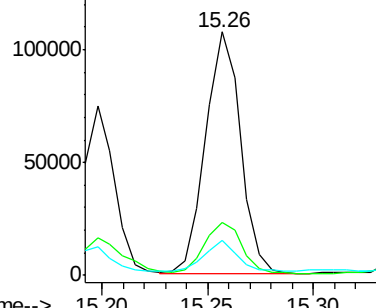


Abundance

Ion 252.00 (251.70 to 252.70): E

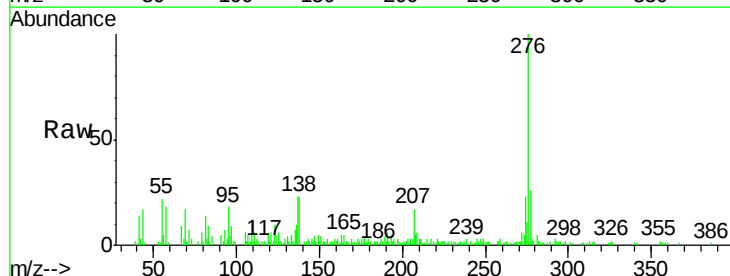
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#92
Benzo(g,h,i)perylene
Concen: 4.608 ng
RT: 17.12 min Scan# 2556
Delta R.T. -0.01 min
Lab File: BF120039.D
Acq: 16 Apr 2020 16:36

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.7	18.5	27.7
138	23.1	14.6	22.0#



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

