

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072920\
 Data File : BF121117.D
 Acq On : 29 Jul 2020 23:03
 Operator : JU/CG
 Sample : L3436-09 5X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 9

Quant Time: Jul 30 00:59:39 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071620.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jul 29 14:55:43 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	167512	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	609857	20.00	ng	0.00
39) Acenaphthene-d10	9.85	164	298703	20.00	ng	0.00
64) Phenanthrene-d10	11.33	188	520933	20.00	ng	0.00
76) Chrysene-d12	13.97	240	445915	20.00	ng	0.00
86) Perylene-d12	15.42	264	361303	20.00	ng	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.42	112	162770	15.93	ng	0.00
7) Phenol-d6	6.44	99	193577	14.67	ng	0.00
23) Nitrobenzene-d5	7.36	82	104992	9.96	ng	-0.01
42) 2,4,6-Tribromophenol	10.63	330	44368	13.57	ng	0.00
45) 2-Fluorobiphenyl	9.16	172	233373	11.66	ng	0.00
79) Terphenyl-d14	12.91	244	224370	10.94	ng	0.00

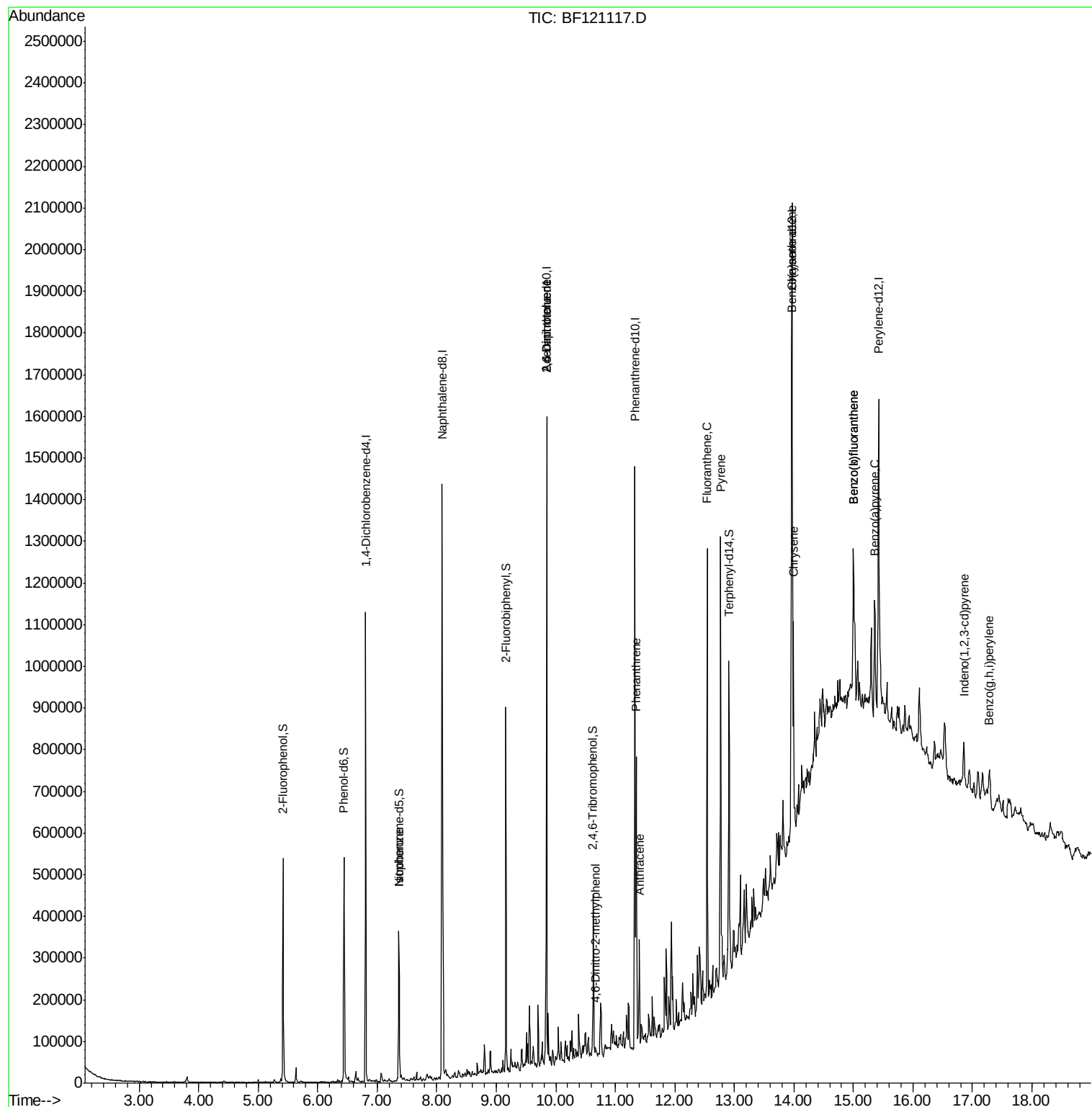
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.36	77	409	Below Cal		# 1
25) Isophorone	7.36	82	100703	4.787	ng	# 62
51) 2,6-Dinitrotoluene	9.85	165	40697	8.790	ng	# 27
57) 2,4-Dinitrotoluene	9.85	165	40697	6.694	ng	# 29
65) 4,6-Dinitro-2-methylphenol	10.66	198	134	3.883	ng	# 1
71) Phenanthrene	11.35	178	229341	8.560	ng	98
72) Anthracene	11.40	178	87918	3.268	ng	98
75) Fluoranthene	12.54	202	447709	15.076	ng	100
78) Pyrene	12.77	202	461166	14.628	ng	98
81) Benzo(a)anthracene	13.96	228	218207	8.081	ng	95
83) Chrysene	13.99	228	197610	6.964	ng	96
87) Indeno(1,2,3-cd)pyrene	16.85	276	68987	2.746	ng	97
88) Benzo(b)fluoranthene	15.00	252	255204	11.685	ng	# 93
89) Benzo(k)fluoranthene	15.00	252	255204	12.813	ng	# 93
90) Benzo(a)pyrene	15.36	252	135796	6.815	ng	# 93
92) Benzo(g,h,i)perylene	17.29	276	68472	3.383	ng	92

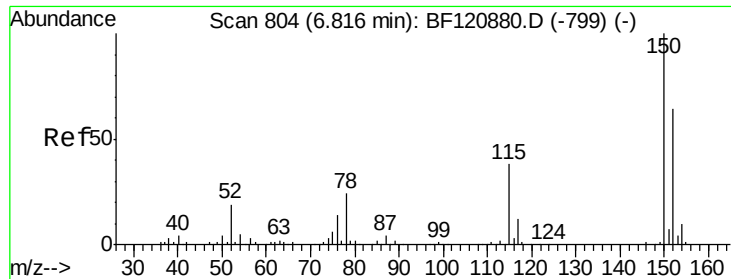
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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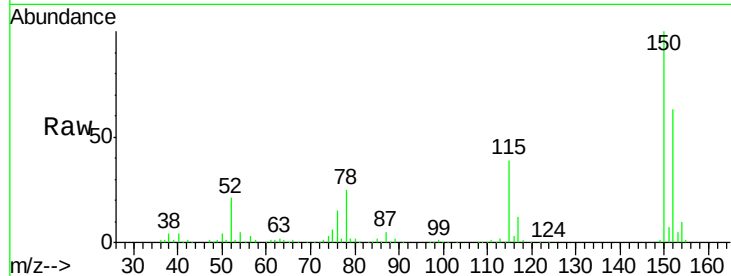


#1

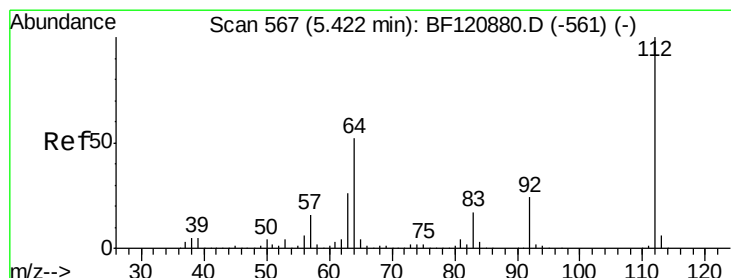
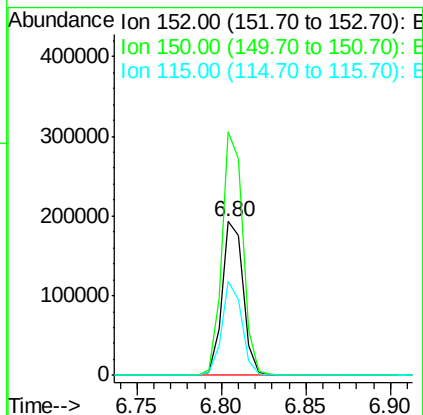
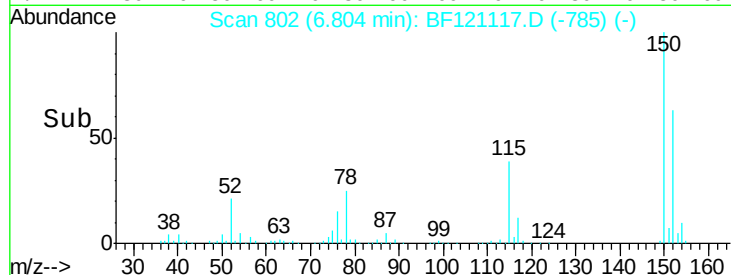
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.80 min Scan# 802
Delta R.T. -0.00 min
Lab File: BF121117.D
Acq: 29 Jul 2020 23:03

Instrument :
BNA_F
ClientSampleId :
9

Tot Ion:152 Resp: 167512
Ion Ratio Lower Upper
152 100
150 158.4 125.6 188.4
115 61.0 46.2 69.2



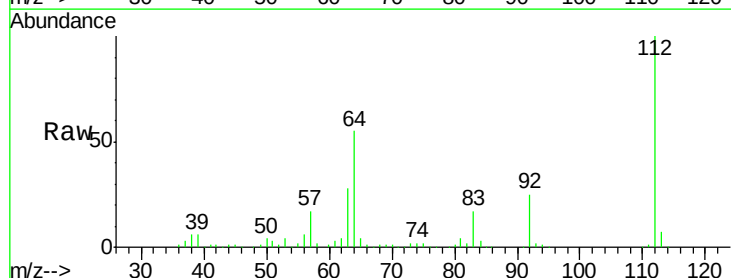
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



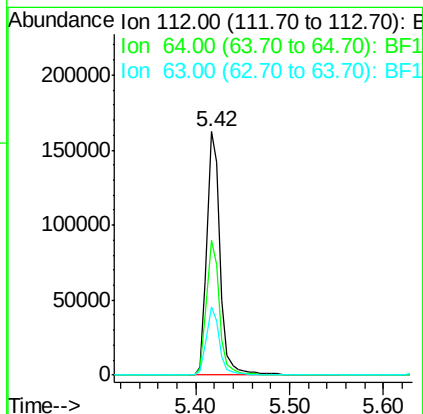
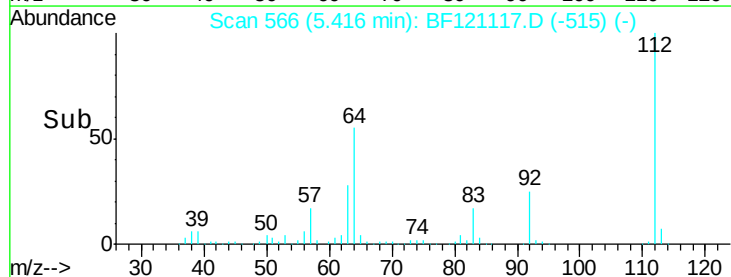
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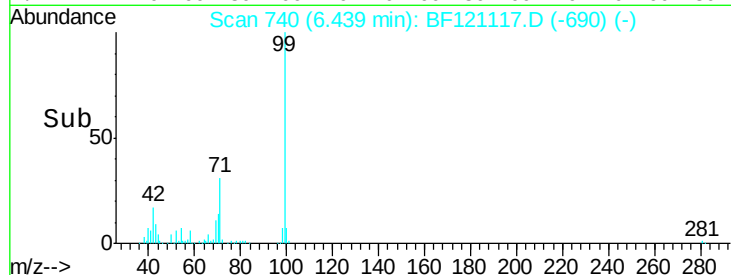
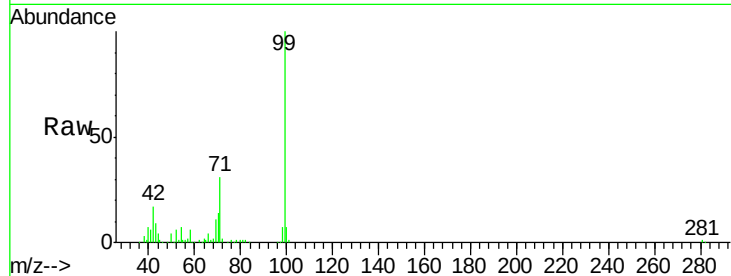
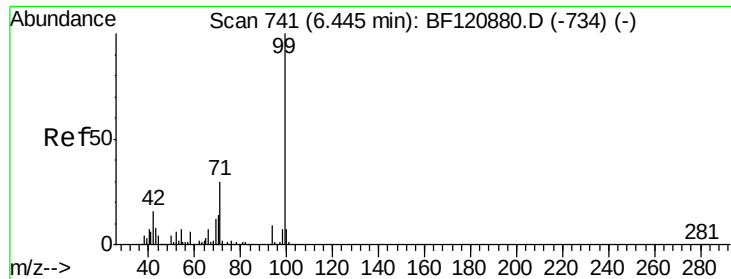
2-Fluorophenol
Concen: 15.929 ng
RT: 5.42 min Scan# 566
Delta R.T. -0.00 min
Lab File: BF121117.D
Acq: 29 Jul 2020 23:03

Tgt Ion:112 Resp: 162770
Ion Ratio Lower Upper
112 100
64 55.3 43.9 65.9
63 28.2 22.7 34.1



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: 14.666 ng

RT: 6.44 min Scan# 740

Delta R.T. -0.01 min

Lab File: BF121117.D

Acq: 29 Jul 2020 23:03

Instrument :

BNA_F

ClientSampled :

9

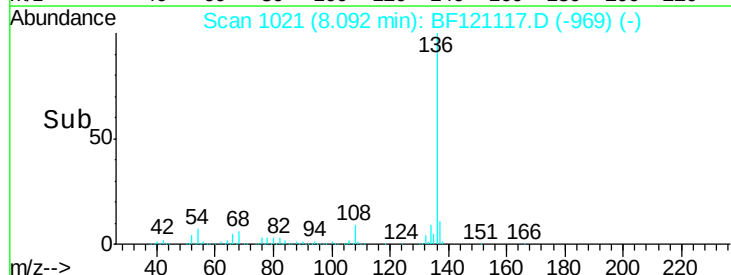
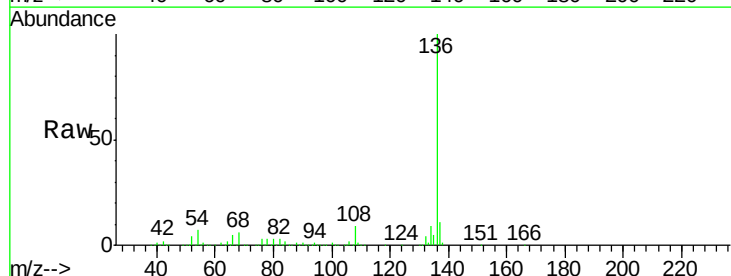
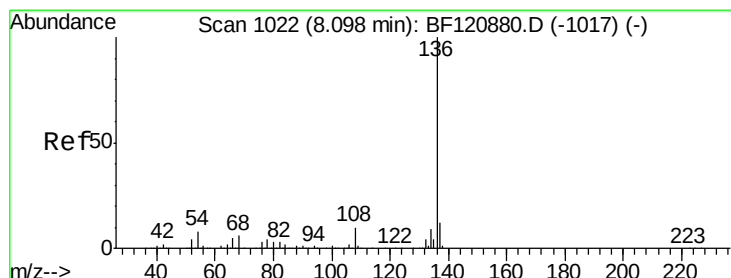
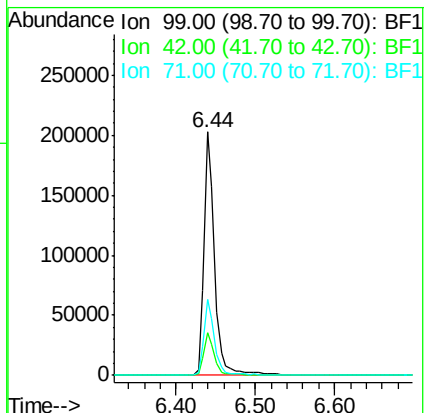
Tot Ion: 99 Resp: 193577

Ion Ratio Lower Upper

99 100

42 17.3 13.5 20.3

71 31.4 25.0 37.4



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.09 min Scan# 1021

Delta R.T. 0.01 min

Lab File: BF121117.D

Acq: 29 Jul 2020 23:03

Tgt Ion: 136 Resp: 609857

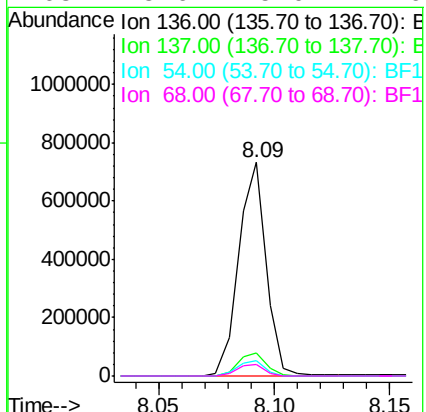
Ion Ratio Lower Upper

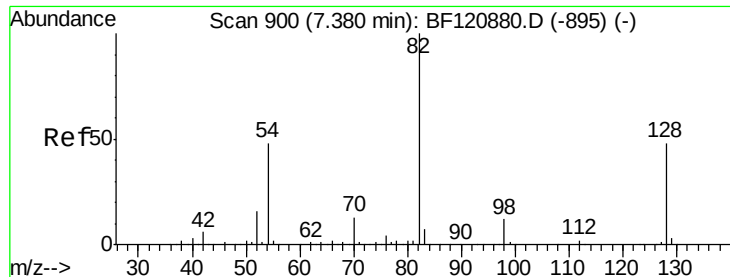
136 100

137 10.8 9.0 13.4

54 7.0 6.1 9.1

68 5.6 5.0 7.6

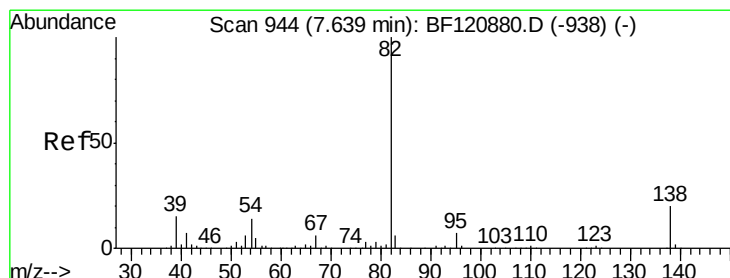
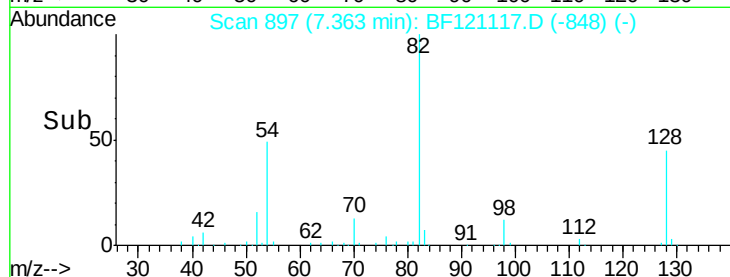
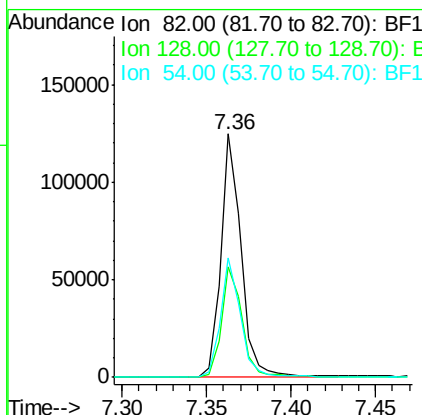
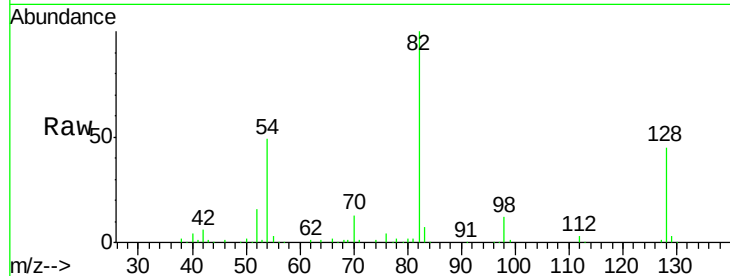




#23
Nitrobenzene-d5
Concen: 9.962 ng
RT: 7.36 min Scan# 897
Delta R.T. -0.01 min
Lab File: BF121117.D
Acq: 29 Jul 2020 23:03

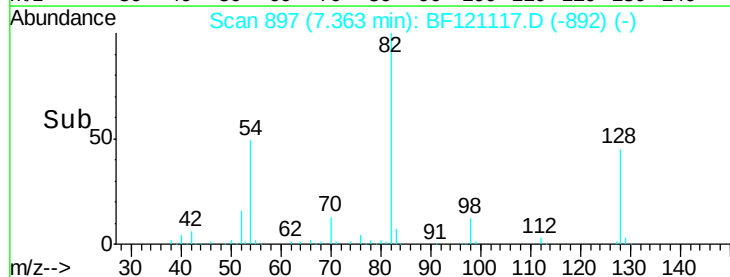
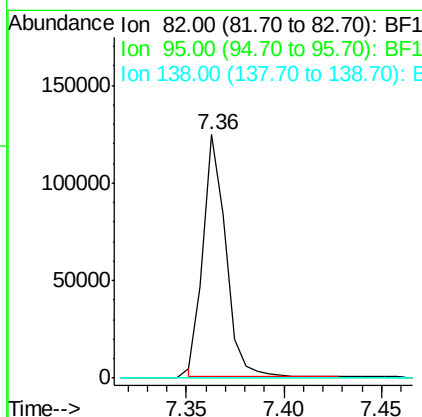
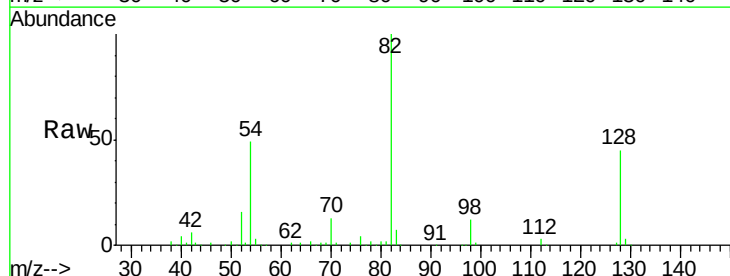
Instrument :
BNA_F
ClientSampled :
9

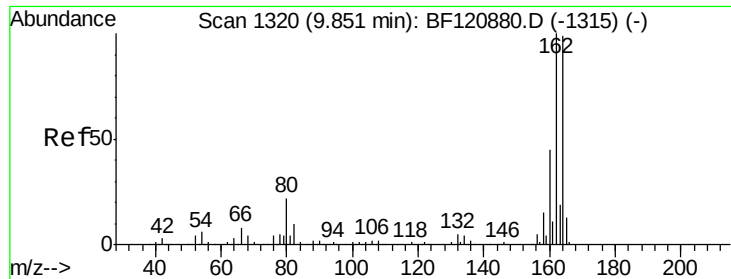
Tot Ion	82	Resp	104992
Ion Ratio	Lower	Upper	
82	100		
128	45.2	39.2	58.8
54	48.9	37.8	56.8



#25
Isophorone
Concen: 4.787 ng
RT: 7.36 min Scan# 897
Delta R.T. -0.27 min
Lab File: BF121117.D
Acq: 29 Jul 2020 23:03

Tgt Ion	82	Resp	100703
Ion Ratio	Lower	Upper	
82	100		
95	0.0	5.5	8.3#
138	0.0	16.2	24.2#

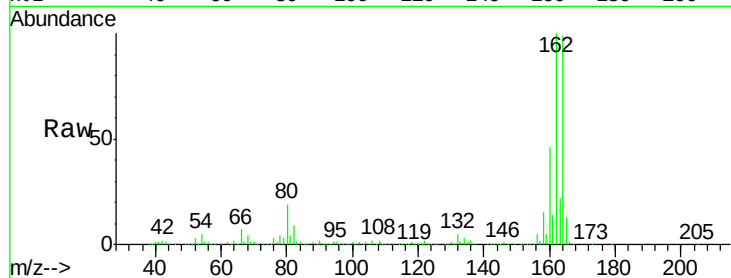




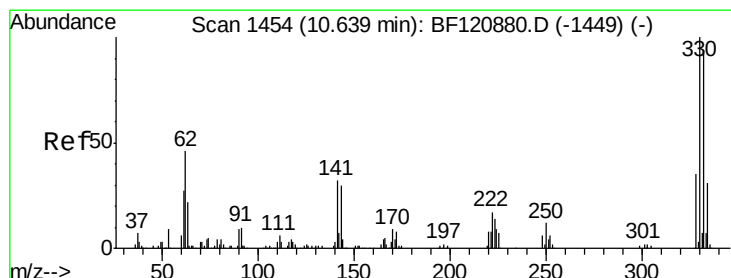
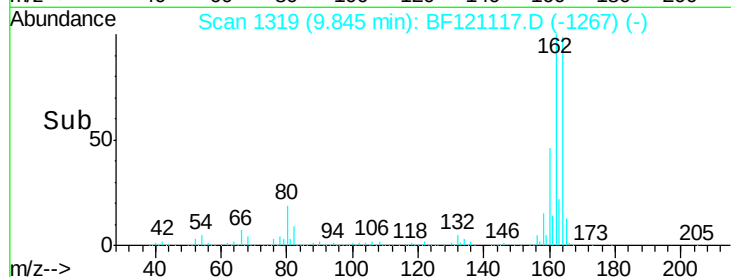
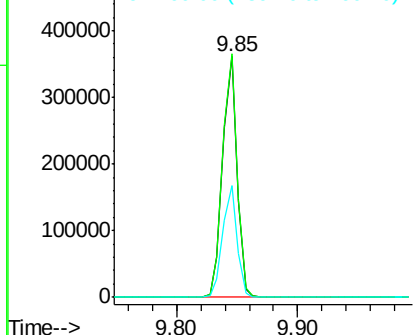
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.85 min Scan# 1319
Delta R.T. 0.01 min
Lab File: BF121117.D
Acq: 29 Jul 2020 23:03

Instrument :
BNA_F
ClientSampleId :
9

Tot Ion:164 Resp: 298703
Ion Ratio Lower Upper
164 100
162 101.1 82.2 123.2
160 46.3 37.2 55.8

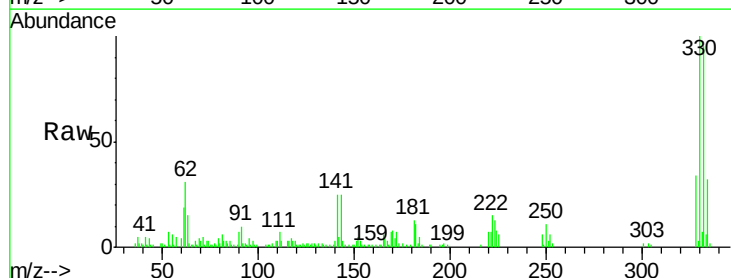


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

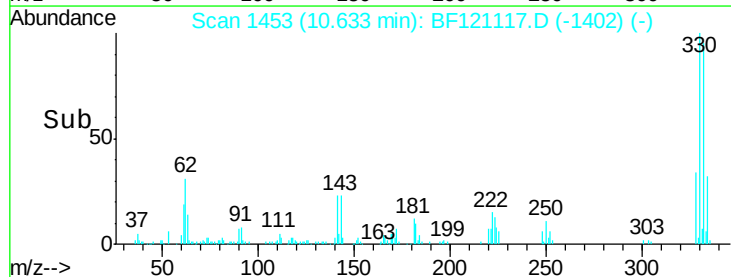
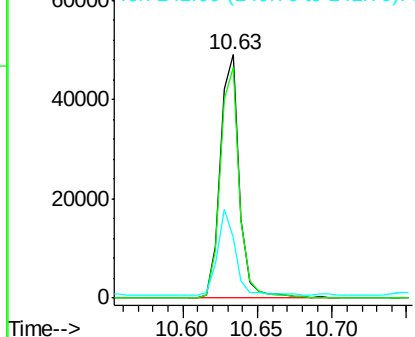


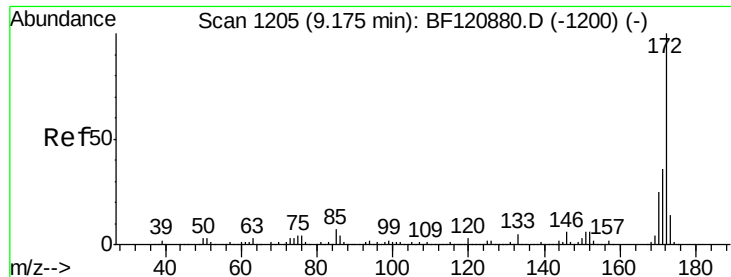
#42
2,4,6-Tribromophenol
Concen: 13.570 ng
RT: 10.63 min Scan# 1453
Delta R.T. -0.00 min
Lab File: BF121117.D
Acq: 29 Jul 2020 23:03

Tgt Ion:330 Resp: 44368
Ion Ratio Lower Upper
330 100
332 95.3 76.1 114.1
141 32.8 24.1 36.1



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

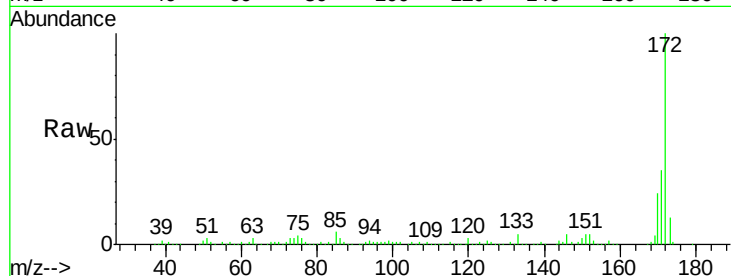




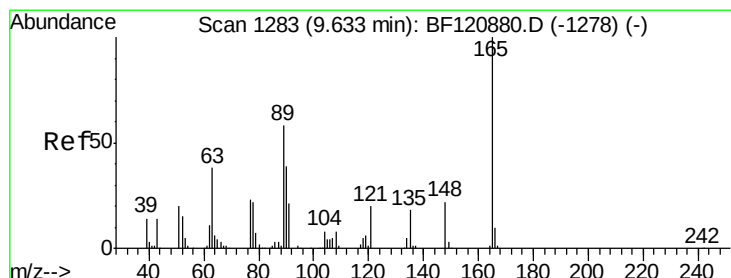
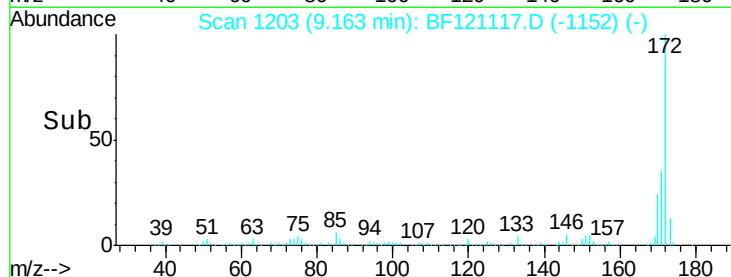
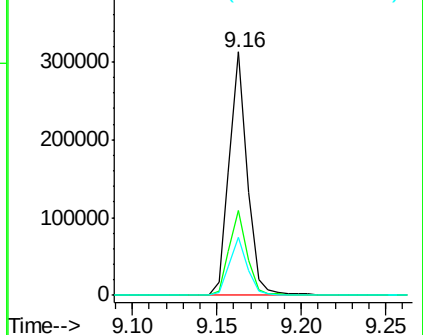
#45
 2-Fluorobiphenyl
 Concen: 11.665 ng
 RT: 9.16 min Scan# 1203
 Delta R.T. -0.00 min
 Lab File: BF121117.D
 Acq: 29 Jul 2020 23:03

Instrument :
 BNA_F
 ClientSampleId :
 9

Tot Ion	Ratio	Lower	Upper
172	100		
171	34.8	29.0	43.4
170	23.8	19.6	29.4

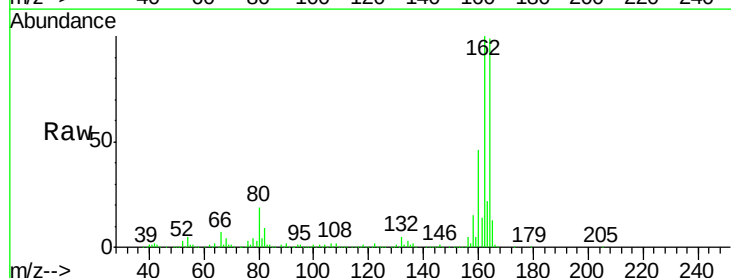


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

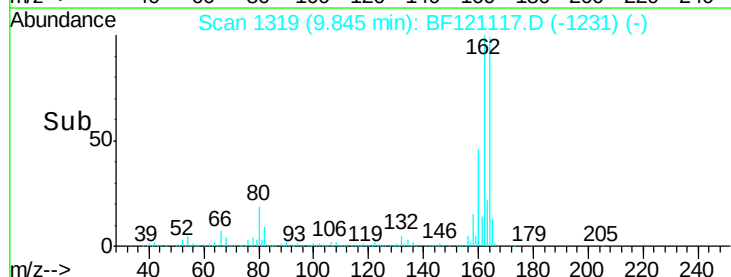
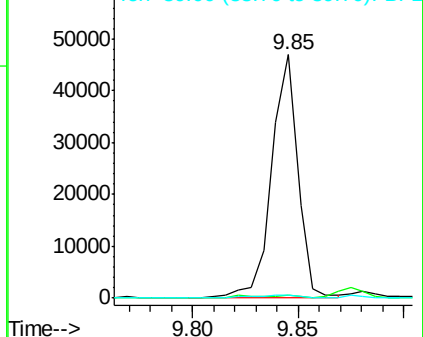


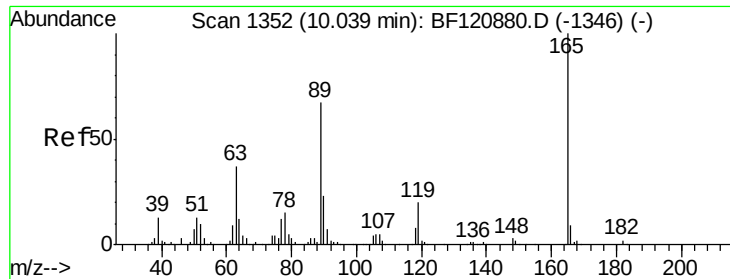
#51
 2,6-Dinitrotoluene
 Concen: 8.790 ng
 RT: 9.85 min Scan# 1319
 Delta R.T. 0.22 min
 Lab File: BF121117.D
 Acq: 29 Jul 2020 23:03

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.2	41.1	61.7#
89	1.1	43.5	65.3#



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: 6.694 ng

RT: 9.85 min Scan# 1319

Delta R.T. -0.19 min

Lab File: BF121117.D

Acq: 29 Jul 2020 23:03

Instrument :

BNA_F

ClientSampleId :

9

Tot Ion:165 Resp: 40697

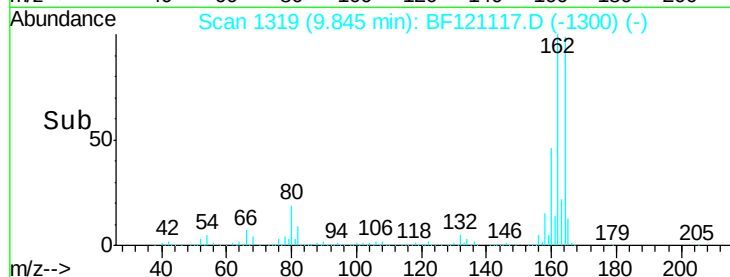
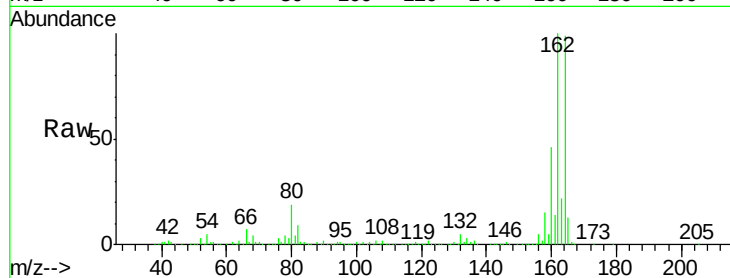
Ion Ratio Lower Upper

165 100

63 1.2 29.8 44.8#

89 1.1 50.3 75.5#

182 0.0 2.1 3.1#

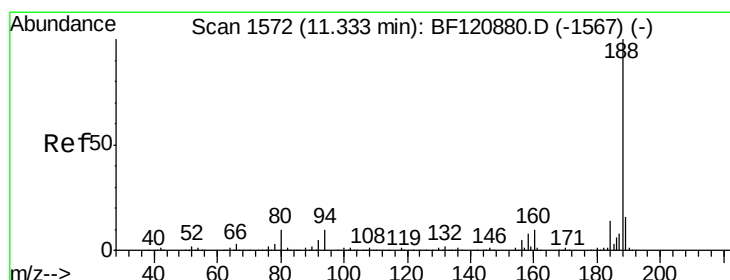
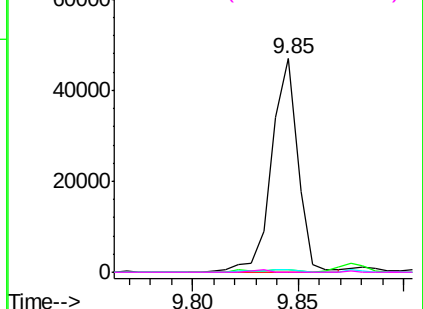


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.33 min Scan# 1571

Delta R.T. 0.01 min

Lab File: BF121117.D

Acq: 29 Jul 2020 23:03

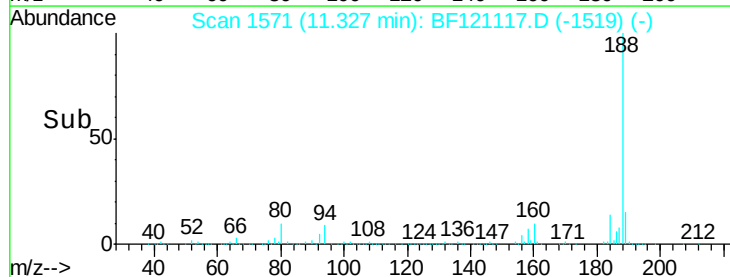
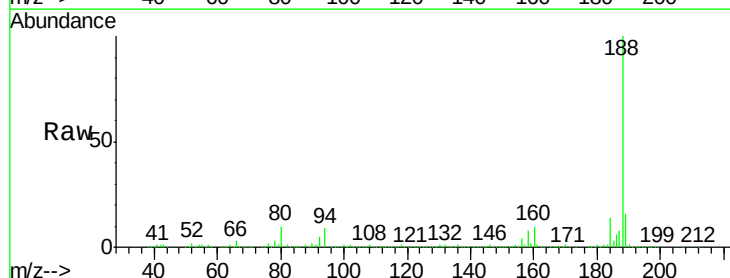
Tgt Ion:188 Resp: 520933

Ion Ratio Lower Upper

188 100

94 9.4 8.0 12.0

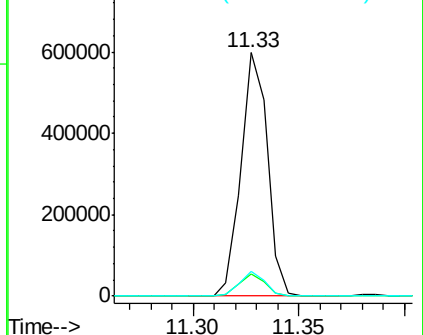
80 10.0 8.3 12.5

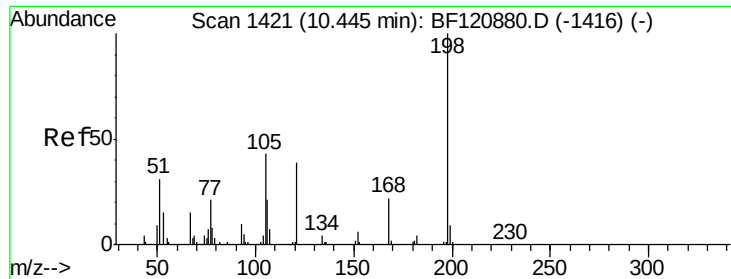


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

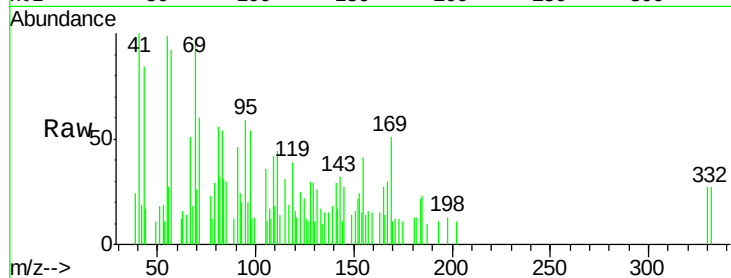




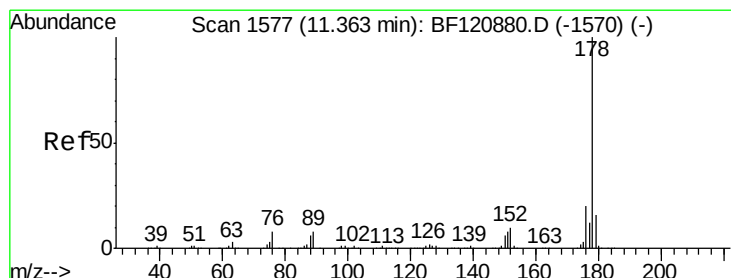
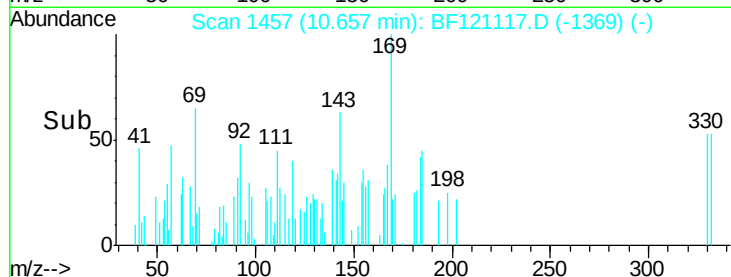
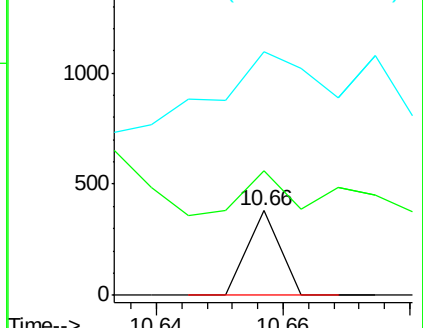
#65
 4,6-Dinitro-2-methylphenol
 Concen: 3.883 ng
 RT: 10.66 min Scan# 1457
 Delta R.T. 0.22 min
 Lab File: BF121117.D
 Acq: 29 Jul 2020 23:03

Instrument :
 BNA_F
 ClientSampled :
 9

Tot Ion:198 Resp: 134
 Ion Ratio Lower Upper
 198 100
 51 147.5 23.4 63.4#
 105 288.9 23.7 63.7#

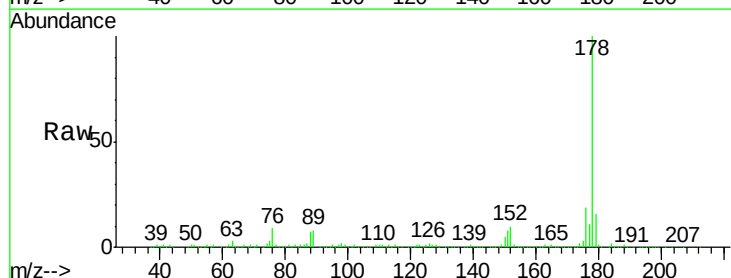


Abundance Ion 198.00 (197.70 to 198.70): E
 Ion 51.00 (50.70 to 51.70): BF1
 Ion 105.00 (104.70 to 105.70): E

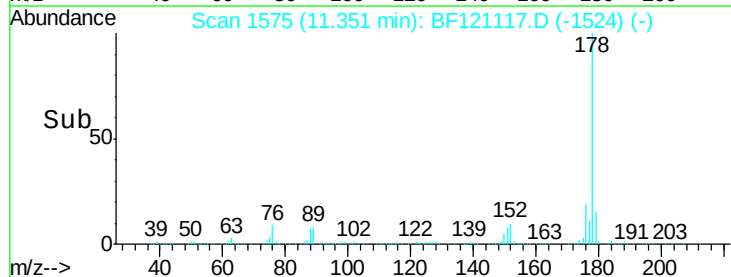
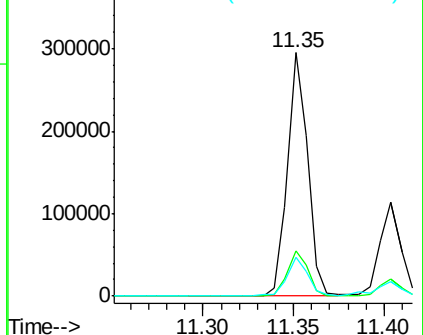


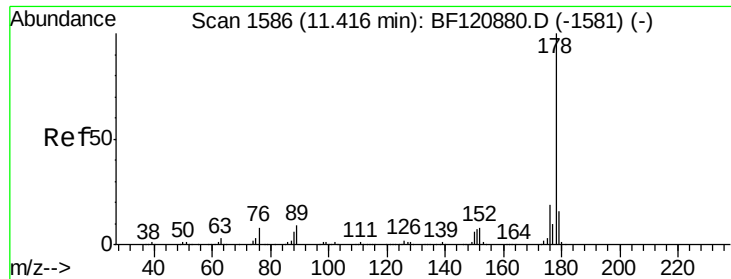
#71
 Phenanthrene
 Concen: 8.560 ng
 RT: 11.35 min Scan# 1575
 Delta R.T. -0.00 min
 Lab File: BF121117.D
 Acq: 29 Jul 2020 23:03

Tgt Ion:178 Resp: 229341
 Ion Ratio Lower Upper
 178 100
 176 18.8 16.2 24.2
 179 15.8 12.6 19.0



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





#72

Anthracene

Concen: 3.268 ng

RT: 11.40 min Scan# 1584

Delta R.T. -0.00 min

Lab File: BF121117.D

Acq: 29 Jul 2020 23:03

Instrument :

BNA_F

ClientSampleId :

9

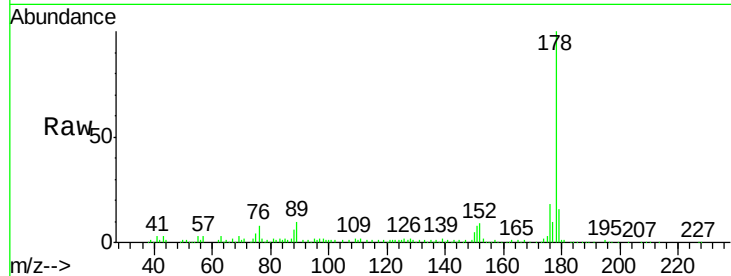
Tot Ion:178 Resp: 87918

Ion Ratio Lower Upper

178 100

176 18.1 15.8 23.8

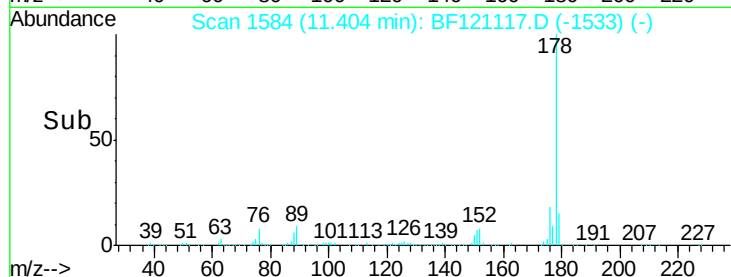
179 15.6 12.6 19.0



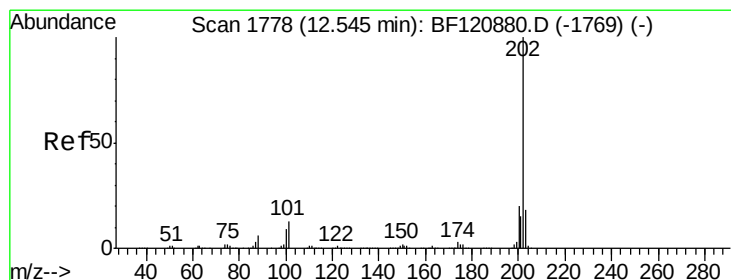
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time--> 11.35 11.40



#75

Fluoranthene

Concen: 15.076 ng

RT: 12.54 min Scan# 1778

Delta R.T. 0.01 min

Lab File: BF121117.D

Acq: 29 Jul 2020 23:03

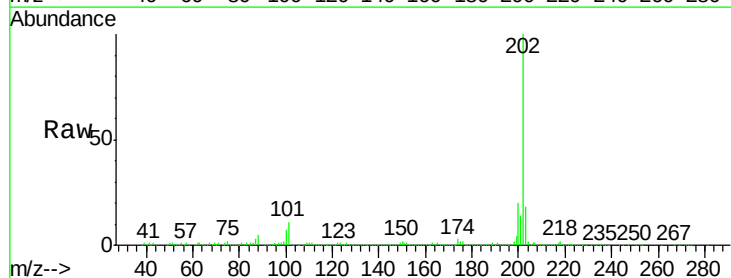
Tgt Ion:202 Resp: 447709

Ion Ratio Lower Upper

202 100

101 10.5 0.0 30.5

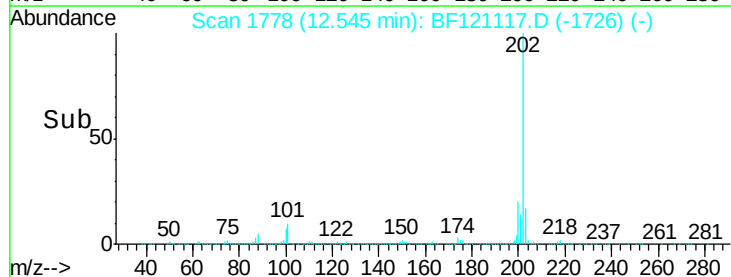
203 17.5 0.0 37.7



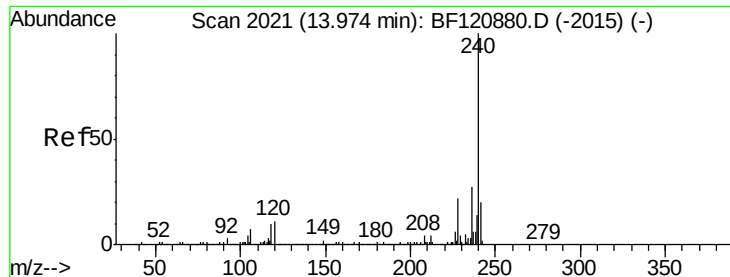
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



Time--> 12.50 12.55



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.97 min Scan# 2020

Delta R.T. 0.01 min

Lab File: BF121117.D

Acq: 29 Jul 2020 23:03

Instrument :

BNA_F

ClientSampleId :

9

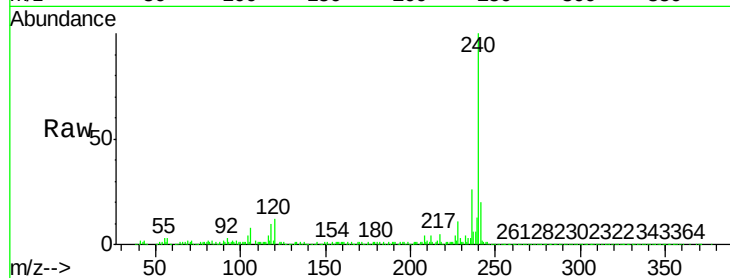
Tot Ion:240 Resp: 445915

Ion Ratio Lower Upper

240 100

120 12.0 9.3 13.9

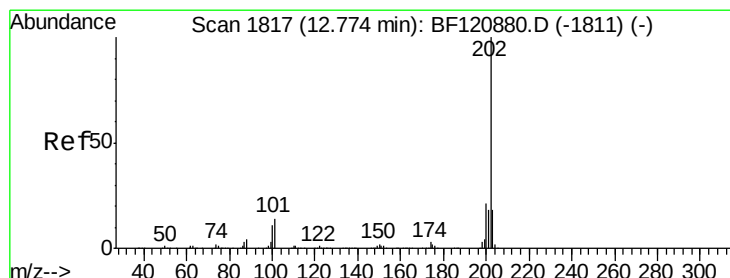
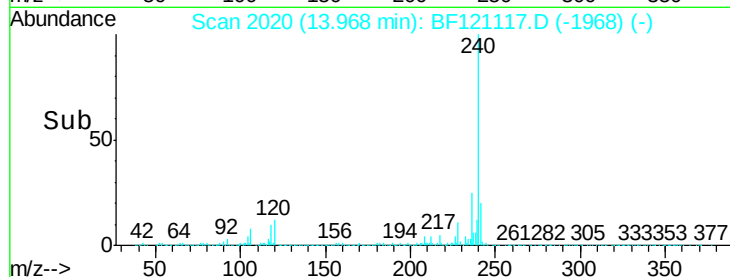
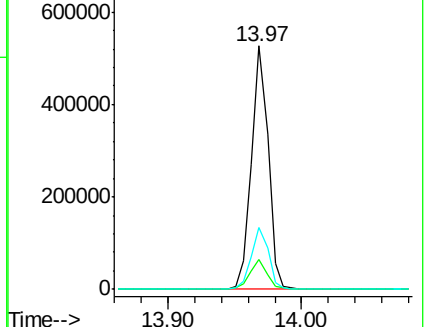
236 25.7 21.1 31.7



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: 14.628 ng

RT: 12.77 min Scan# 1816

Delta R.T. 0.01 min

Lab File: BF121117.D

Acq: 29 Jul 2020 23:03

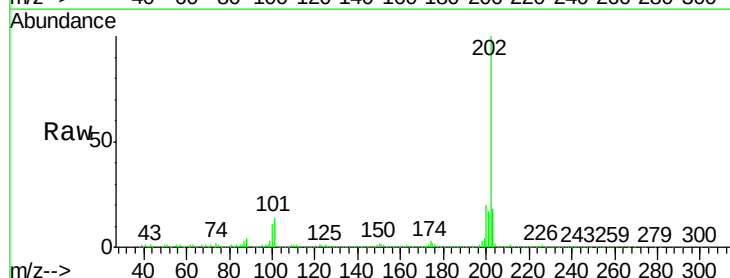
Tgt Ion:202 Resp: 461166

Ion Ratio Lower Upper

202 100

200 19.9 17.0 25.6

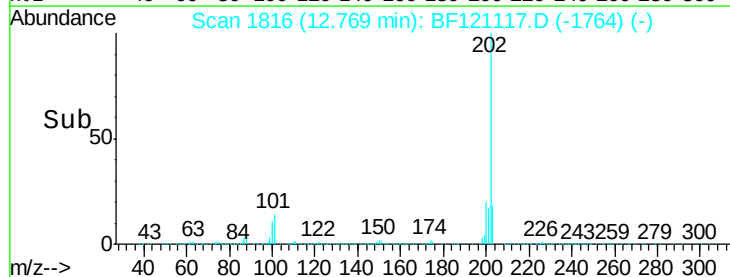
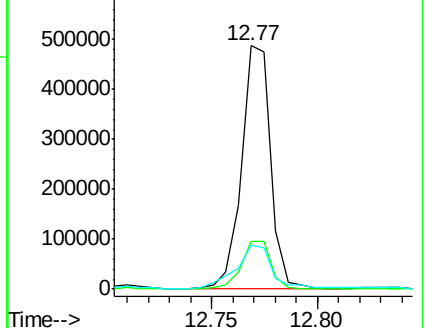
203 18.2 14.6 21.8

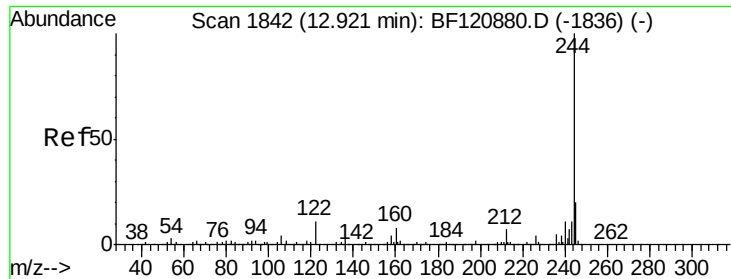


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

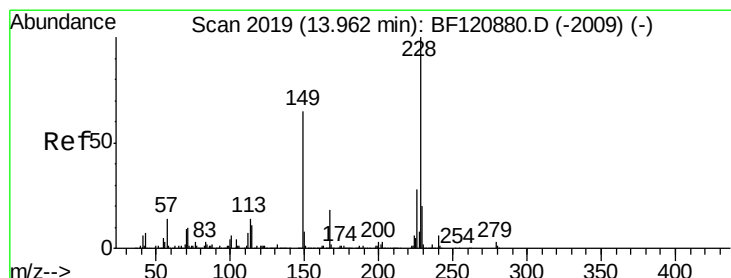
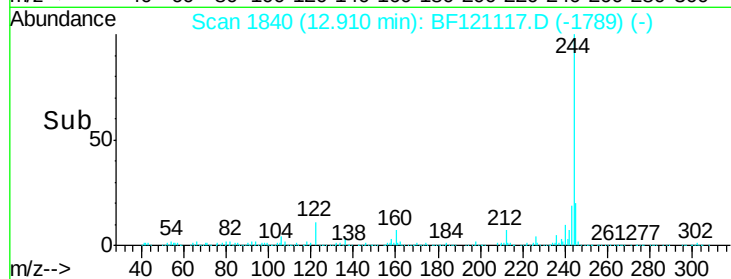
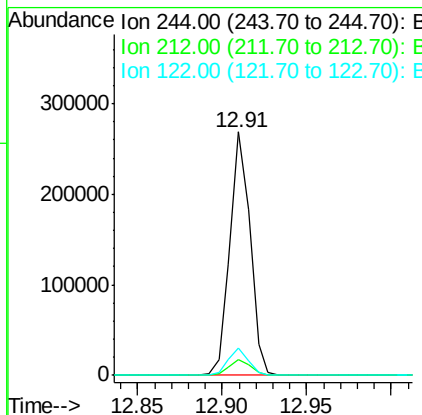
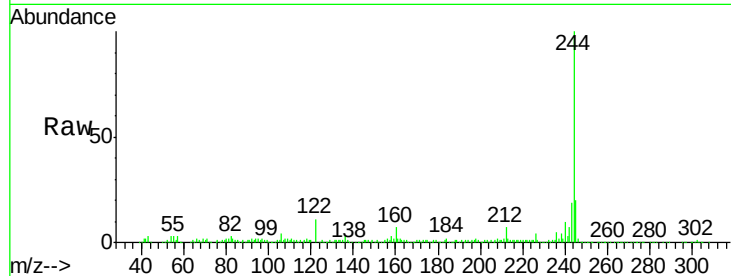




#79
 Terphenyl-d14
 Concen: 10.938 ng
 RT: 12.91 min Scan# 1840
 Delta R.T. -0.00 min
 Lab File: BF121117.D
 Acq: 29 Jul 2020 23:03

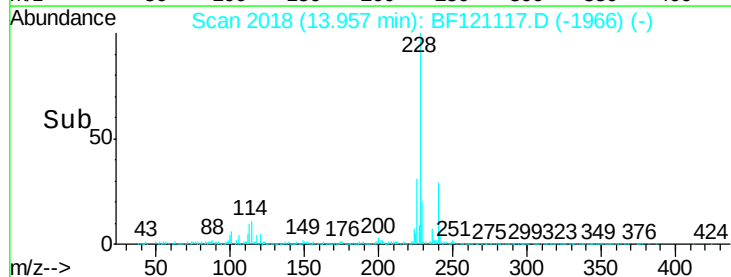
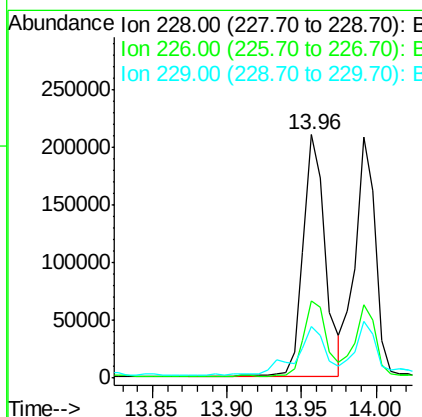
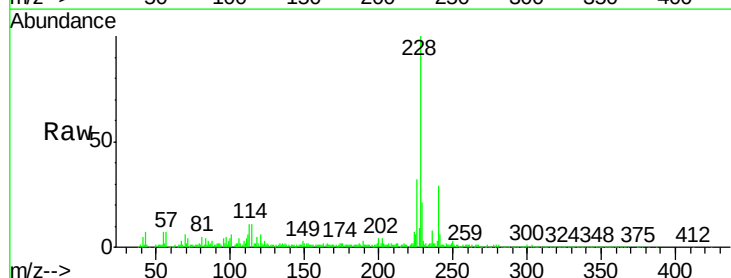
Instrument :
 BNA_F
 ClientSampleId :
 9

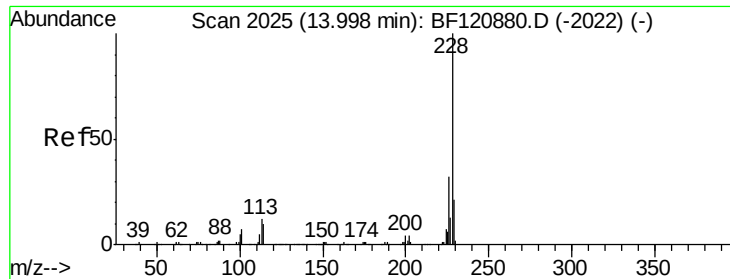
Tot Ion:244 Resp: 224370
 Ion Ratio Lower Upper
 244 100
 212 6.7 5.7 8.5
 122 11.1 8.3 12.5



#81
 Benzo(a)anthracene
 Concen: 8.081 ng
 RT: 13.96 min Scan# 2018
 Delta R.T. 0.01 min
 Lab File: BF121117.D
 Acq: 29 Jul 2020 23:03

Tgt Ion:228 Resp: 218207
 Ion Ratio Lower Upper
 228 100
 226 31.8 22.6 34.0
 229 21.2 16.1 24.1

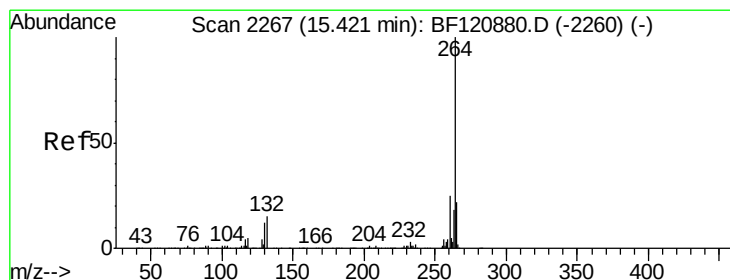
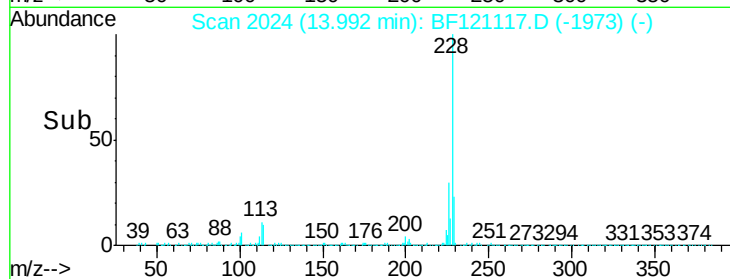
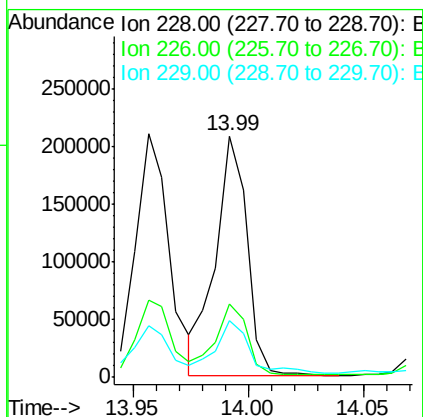
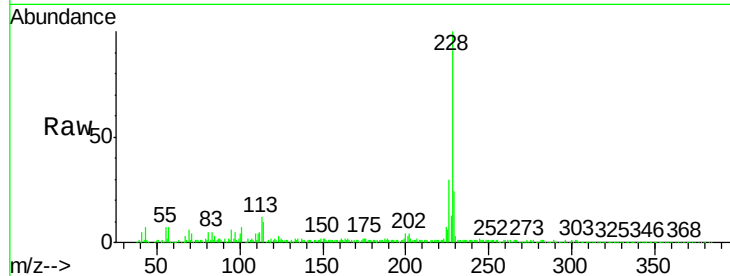




#83
Chrysene
Concen: 6.964 ng
RT: 13.99 min Scan# 2024
Delta R.T. -0.00 min
Lab File: BF121117.D
Acq: 29 Jul 2020 23:03

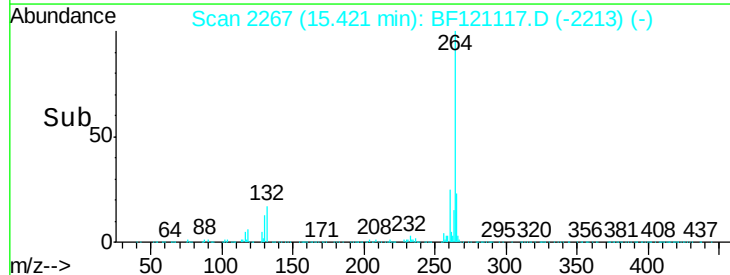
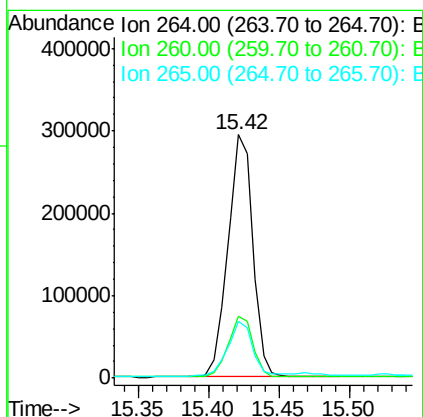
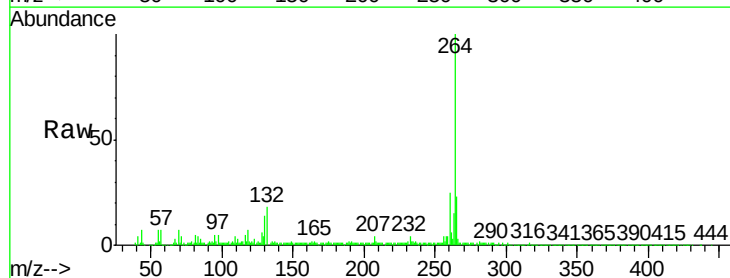
Instrument :
BNA_F
ClientSampleId :
9

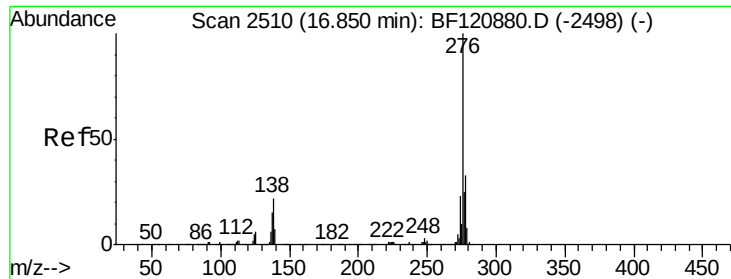
Tot Ion:228 Resp: 197610
Ion Ratio Lower Upper
228 100
226 30.2 25.4 38.0
229 23.7 16.2 24.4



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.42 min Scan# 2267
Delta R.T. 0.02 min
Lab File: BF121117.D
Acq: 29 Jul 2020 23:03

Tgt Ion:264 Resp: 361303
Ion Ratio Lower Upper
264 100
260 25.2 19.9 29.9
265 23.3 17.8 26.8

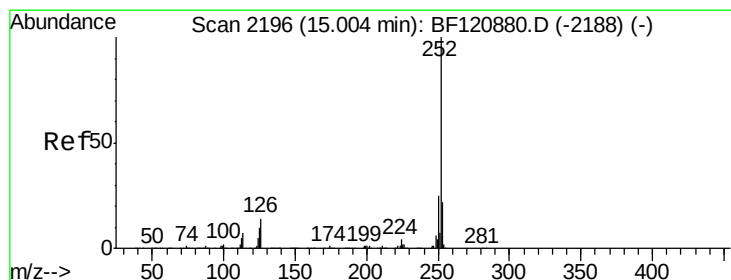
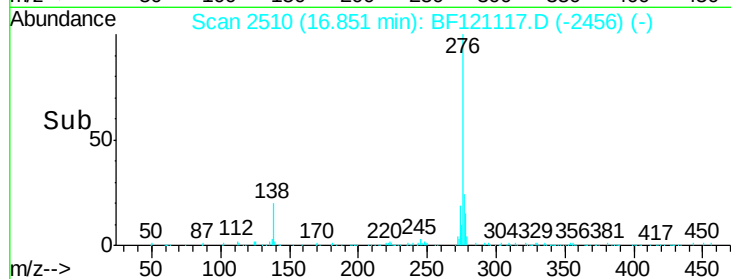
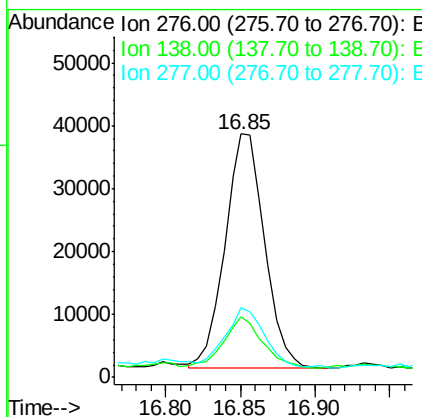
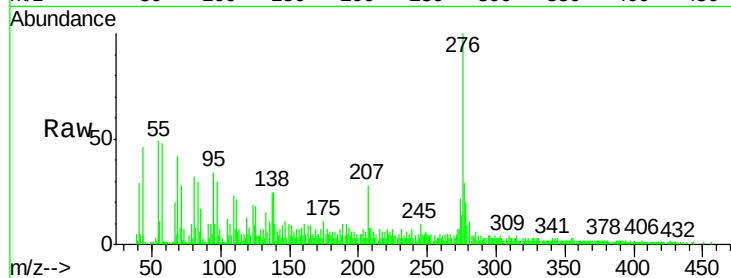




#87
 Indeno(1,2,3-cd)pyrene
 Concen: 2.746 ng
 RT: 16.85 min Scan# 2510
 Delta R.T. 0.02 min
 Lab File: BF121117.D
 Acq: 29 Jul 2020 23:03

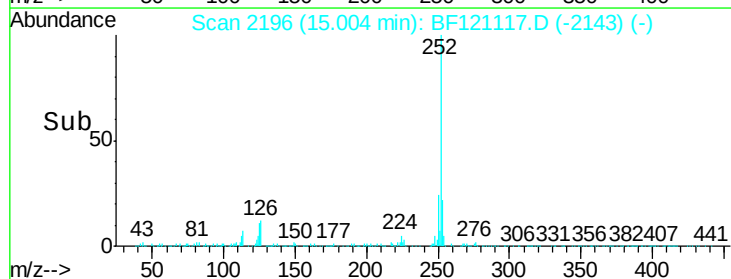
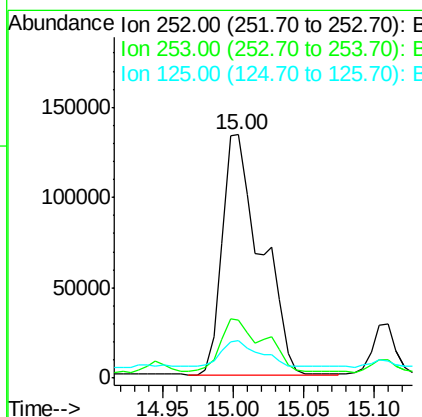
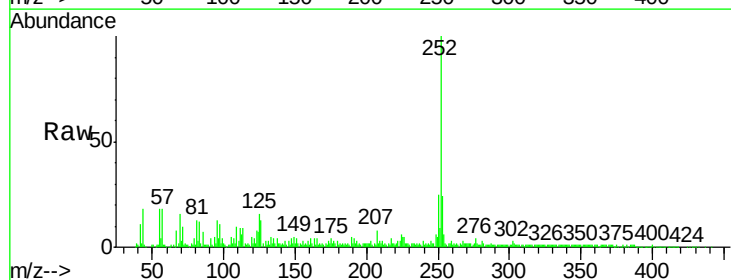
Instrument :
 BNA_F
 ClientSampleId :
 9

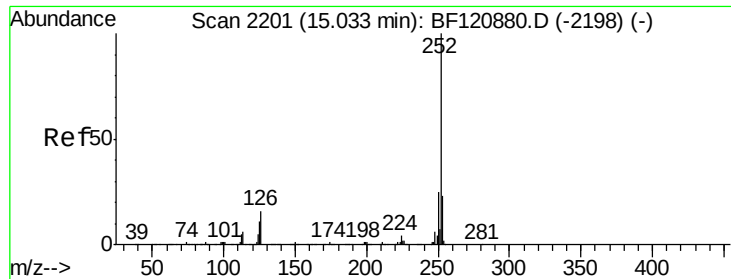
Tot Ion	Ratio	Lower	Upper
276	100		
138	21.8	19.3	28.9
277	26.2	20.1	30.1



#88
 Benzo(b)fluoranthene
 Concen: 11.685 ng
 RT: 15.00 min Scan# 2196
 Delta R.T. 0.01 min
 Lab File: BF121117.D
 Acq: 29 Jul 2020 23:03

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.0	17.9	26.9
125	15.6	8.1	12.1

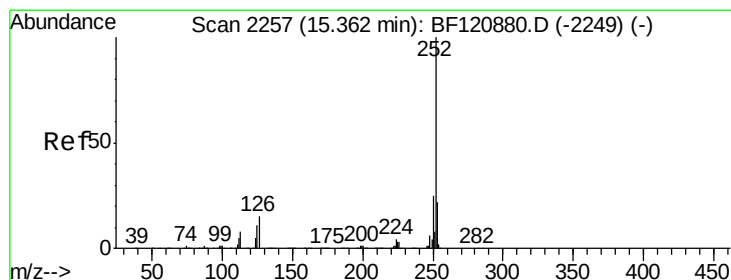
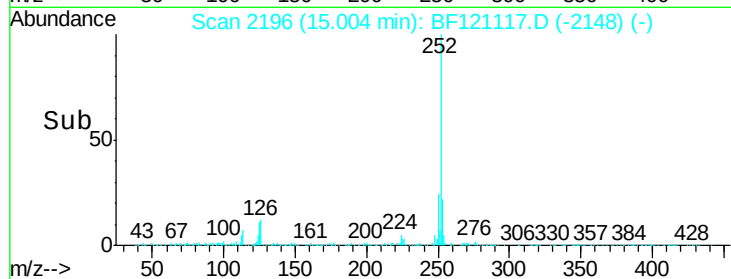
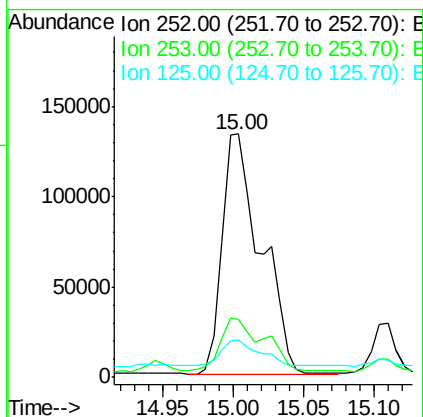
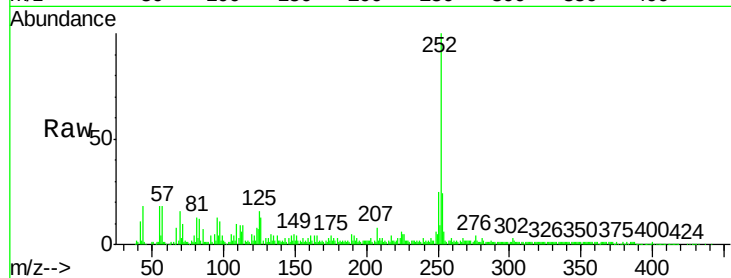




#89
Benzo(k)fluoranthene
Concen: 12.813 ng
RT: 15.00 min Scan# 2196
Delta R.T. -0.02 min
Lab File: BF121117.D
Acq: 29 Jul 2020 23:03

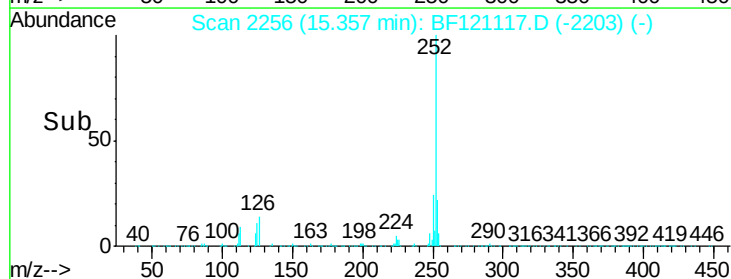
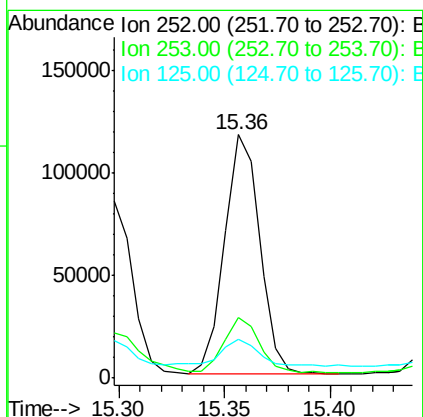
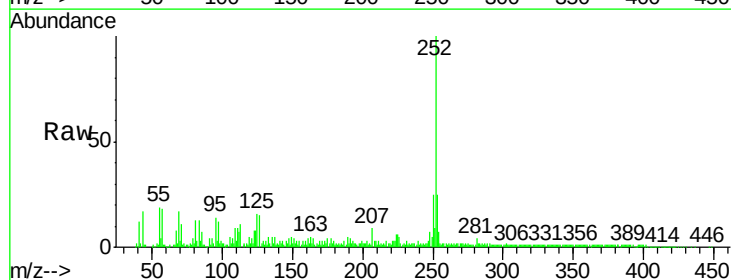
Instrument :
BNA_F
ClientSampleId :
9

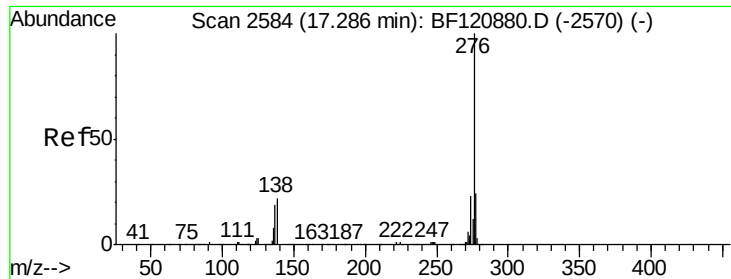
Tot Ion	Ratio	Lower	Upper
252	100		
253	24.0	18.1	27.1
125	15.6	8.0	12.0



#90
Benzo(a)pyrene
Concen: 6.815 ng
RT: 15.36 min Scan# 2256
Delta R.T. 0.01 min
Lab File: BF121117.D
Acq: 29 Jul 2020 23:03

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.8	18.0	27.0
125	16.0	9.5	14.3

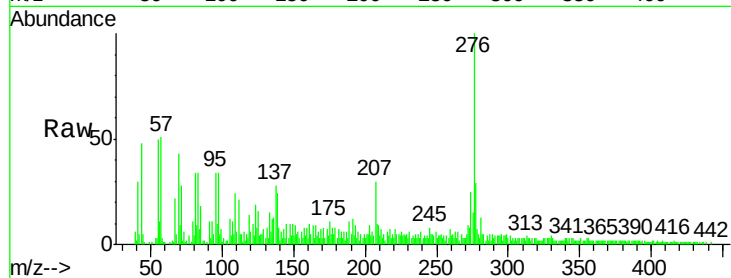




#92
 Benzo(a,h,i)perylene
 Concen: 3.383 ng
 RT: 17.29 min Scan# 2584
 Delta R.T. 0.02 min
 Lab File: BF121117.D
 Acq: 29 Jul 2020 23:03

Instrument :
 BNA_F
 ClientSampleId :
 9

Tot Ion	Ion	Ratio	Lower	Upper
276	100			
277	28.8	19.4	29.0	
138	24.4	17.2	25.8	



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

