

Data Path : Z:\svoasrv\HPCHEM1\BNA F\Data\BF041620\
 Data File : BF120026.D
 Acq On : 16 Apr 2020 10:46
 Operator : MA/SJ
 Sample : L2230-51 5X
 Misc :
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-1-9-17

Quant Time: Apr 16 11:20:39 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	158017	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	584031	20.00	ng	0.00
39) Acenaphthene-d10	9.76	164	286512	20.00	ng	0.00
64) Phenanthrene-d10	11.25	188	486478	20.00	ng	0.00
76) Chrysene-d12	13.89	240	278178	20.00	ng	0.00
87) Perylene-d12	15.32	264	258021	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.32	112	190631	20.85	ng	0.00
7) Phenol-d6	6.35	99	242748	20.60	ng	-0.02
23) Nitrobenzene-d5	7.28	82	159452	14.12	ng	-0.02
42) 2,4,6-Tribromophenol	10.55	330	56910	16.22	ng	-0.01
45) 2-Fluorobiphenyl	9.09	172	332675	16.49	ng	0.00
79) Terphenyl-d14	12.83	244	265170	16.04	ng	-0.02

Target Compounds

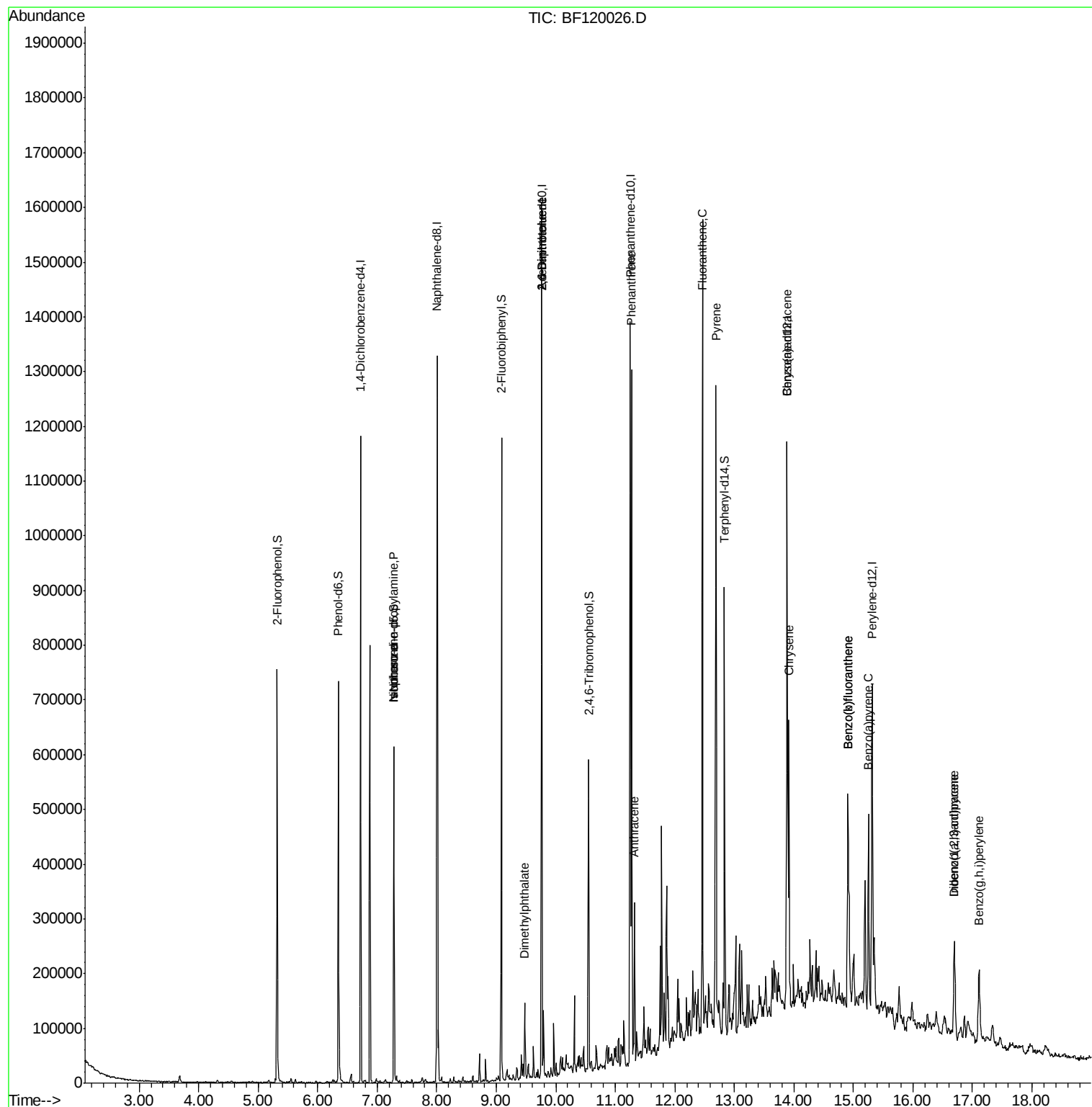
						Qvalue
9) Benzaldehyde	6.27	77	765	Below Cal	#	51
19) n-Nitroso-di-n-propylamine	7.28	70	19633	2.591 ng	#	78
25) Isophorone	7.28	82	152938	7.028 ng	#	65
50) Dimethylphthalate	9.48	163	47146	2.127 ng		99
51) 2,6-Dinitrotoluene	9.76	165	37502	7.728 ng	#	19
57) 2,4-Dinitrotoluene	9.76	165	37502	5.865 ng	#	22
71) Phenanthrene	11.27	178	416138	16.073 ng		99
72) Anthracene	11.32	178	100910	3.815 ng		97
75) Fluoranthene	12.46	202	564805	20.218 ng		98
78) Pyrene	12.69	202	471735	20.116 ng		100
81) Benzo(a)anthracene	13.88	228	216858	11.850 ng		97
83) Chrysene	13.92	228	191901	10.320 ng		98
86) Indeno(1,2,3-cd)pyrene	16.69	276	108409	6.614 ng		97
88) Benzo(b)fluoranthene	14.91	252	285622	15.388 ng	#	96
89) Benzo(k)fluoranthene	14.91	252	285622	17.835 ng	#	97
90) Benzo(a)pyrene	15.25	252	168011	10.766 ng		97
91) Dibenzo(a,h)anthracene	16.70	278	28373	2.052 ng	#	91
92) Benzo(g,h,i)perylene	17.11	276	103680	7.598 ng		98

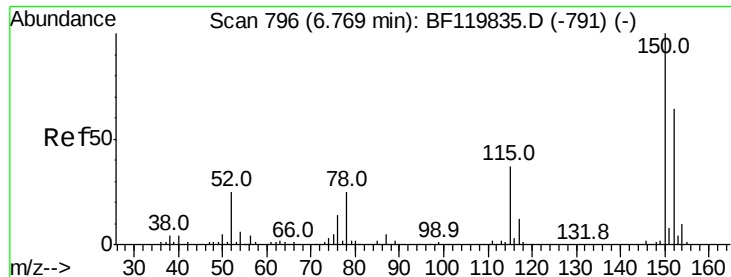
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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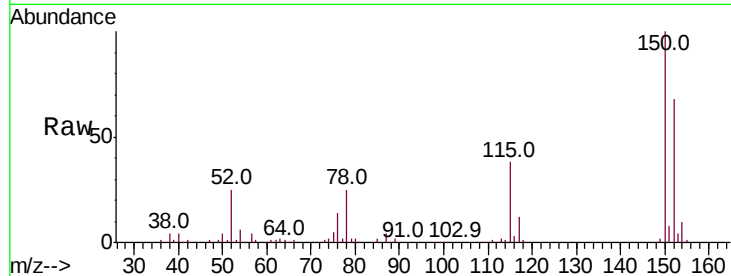


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.72 min Scan# 788
Delta R.T. 0.00 min
Lab File: BF120026.D
Acq: 16 Apr 2020 10:46

Instrument :
BNA_F
ClientSampleId :
TP-1-9-17

Tot Ion	Ratio	Lower	Upper
152	100		
150	147.8	124.8	187.2
115	55.9	46.5	69.7

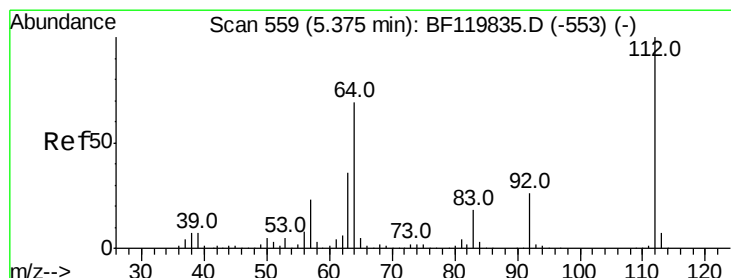
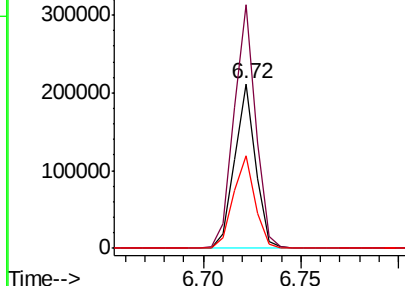
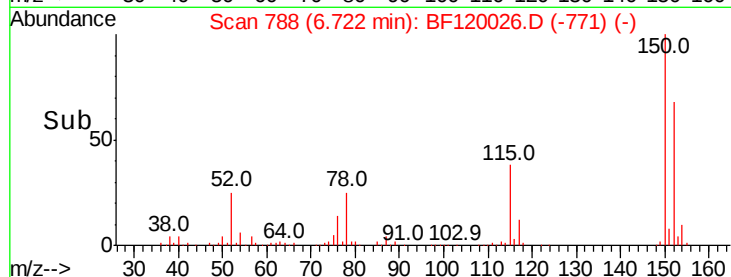


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

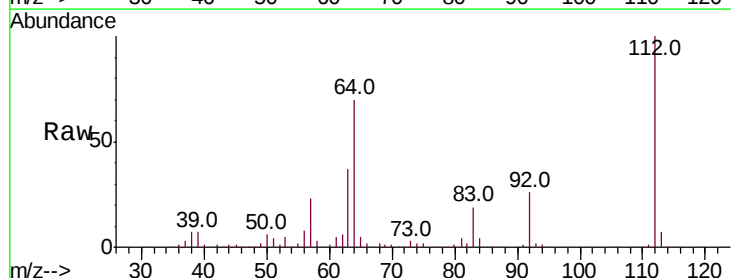
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 20.849 ng
RT: 5.32 min Scan# 549
Delta R.T. -0.01 min
Lab File: BF120026.D
Acq: 16 Apr 2020 10:46

Tgt Ion	Ratio	Lower	Upper
112	100		
64	70.4	55.5	83.3
63	37.3	29.1	43.7

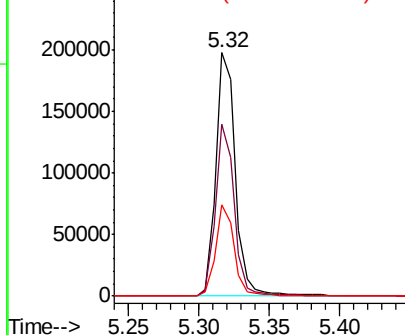
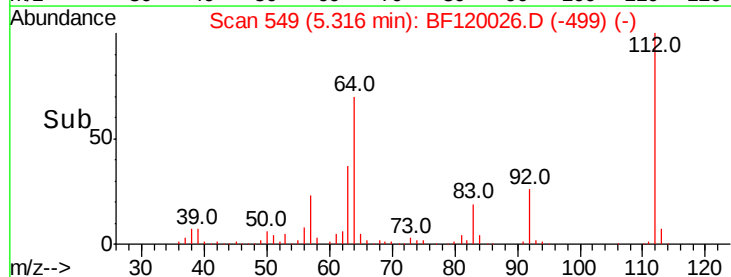


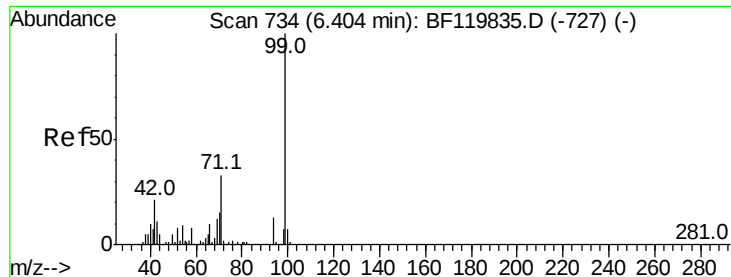
Abundance

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: 20.603 ng

RT: 6.35 min Scan# 724

Delta R.T. -0.02 min

Lab File: BF120026.D

Acq: 16 Apr 2020 10:46

Instrument :

BNA_F

ClientSampleId :

TP-1-9-17

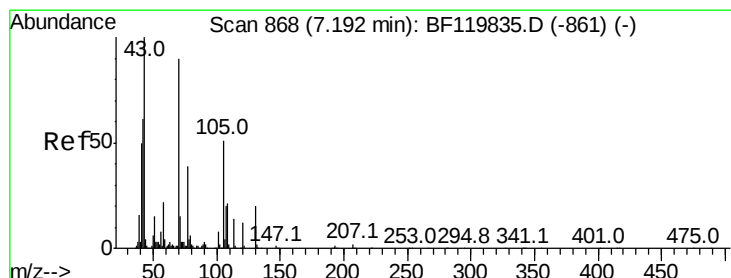
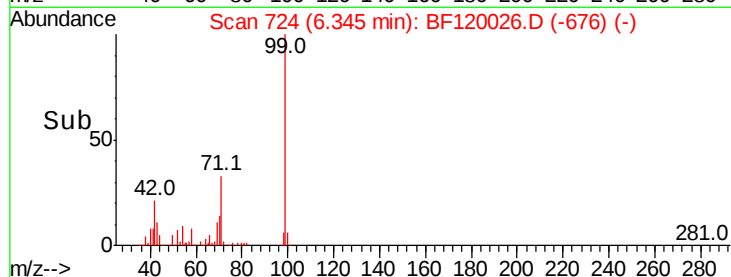
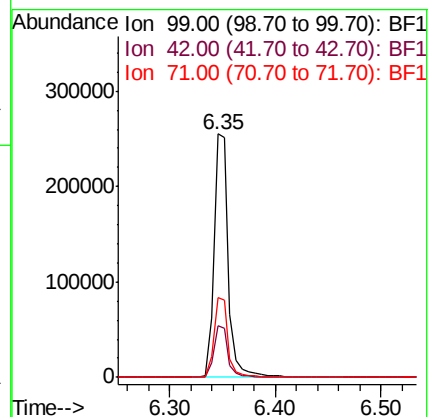
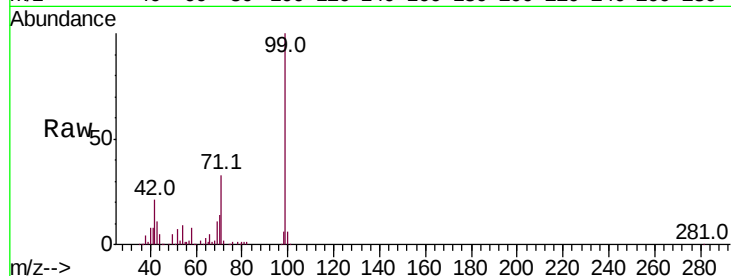
Tot Ion: 99 Resp: 242748

Ion Ratio Lower Upper

99 100

42 21.2 16.9 25.3

71 33.0 26.3 39.5



#19

n-Nitroso-di-n-propylamine

Concen: 2.591 ng

RT: 7.28 min Scan# 883

Delta R.T. 0.13 min

Lab File: BF120026.D

Acq: 16 Apr 2020 10:46

Tgt Ion: 70 Resp: 19633

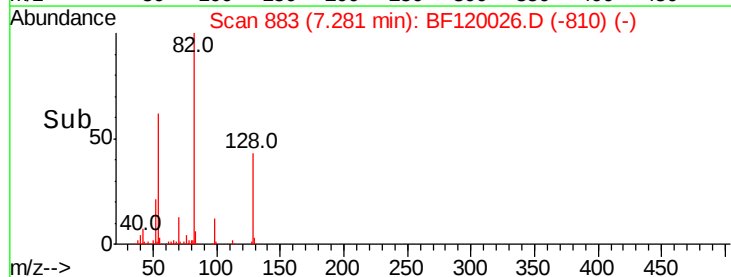
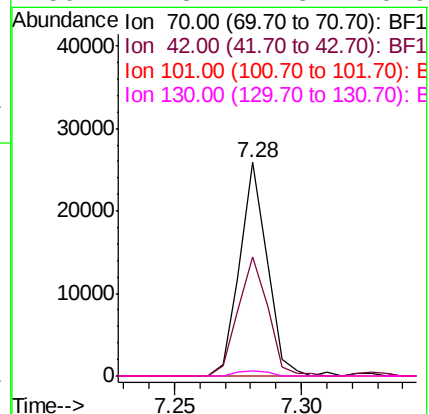
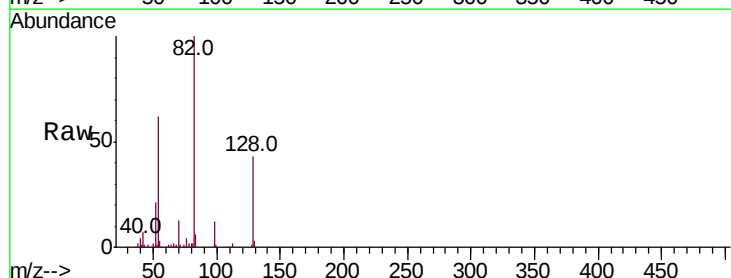
Ion Ratio Lower Upper

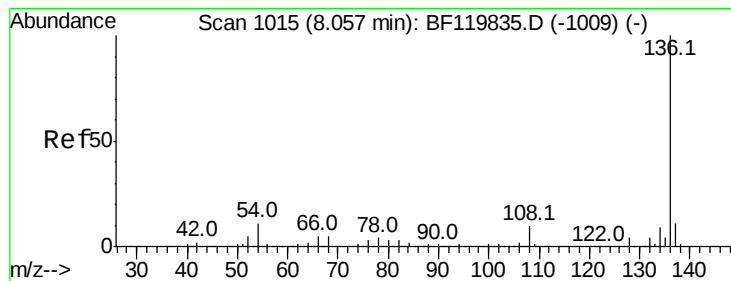
70 100

42 55.9 54.2 81.4

101 0.0 7.4 11.2#

130 2.3 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: BF120026.D

Acq: 16 Apr 2020 10:46

Instrument :

BNA_F

ClientSampleId :

TP-1-9-17

Tot Ion:136 Resp: 584031

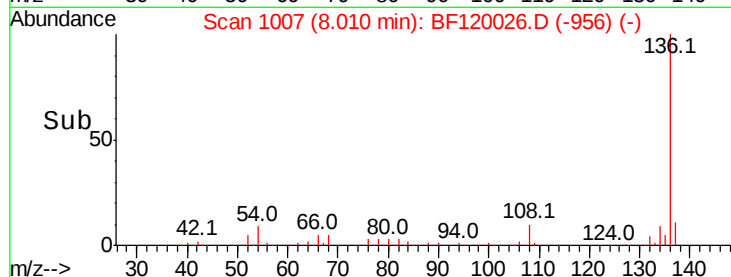
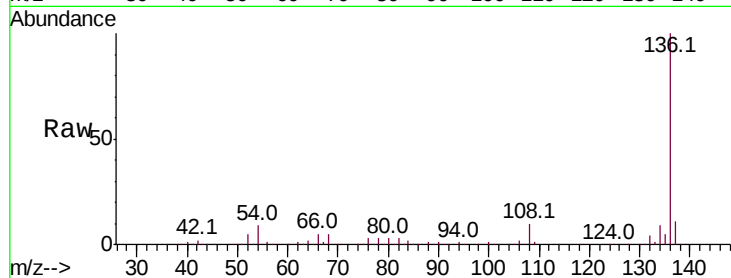
Ion Ratio Lower Upper

136 100

137 10.7 8.7 13.1

54 9.1 8.5 12.7

68 4.7 3.9 5.9

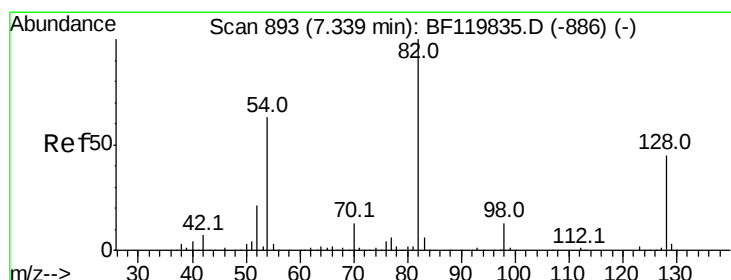
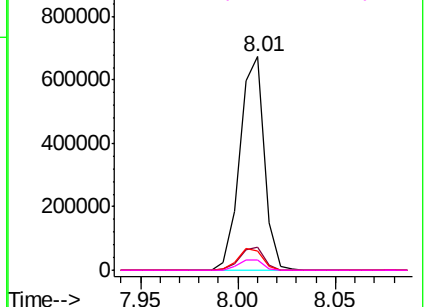


Abundance Ion 136.00 (135.70 to 136.70): E

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: 14.124 ng

RT: 7.28 min Scan# 883

Delta R.T. -0.02 min

Lab File: BF120026.D

Acq: 16 Apr 2020 10:46

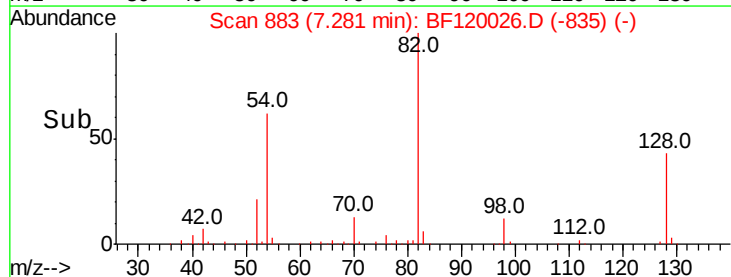
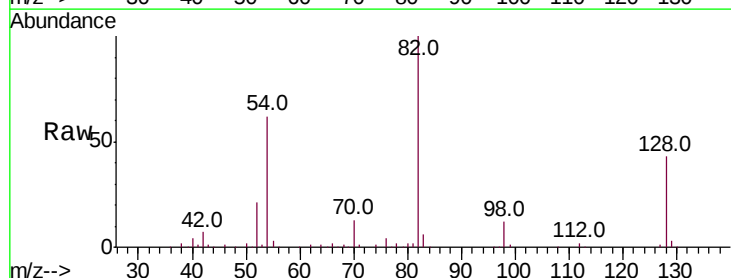
Tgt Ion: 82 Resp: 159452

Ion Ratio Lower Upper

82 100

128 43.2 36.2 54.4

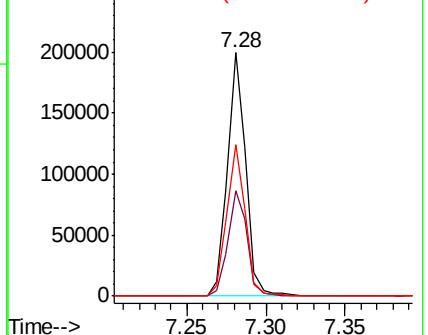
54 62.3 50.4 75.6

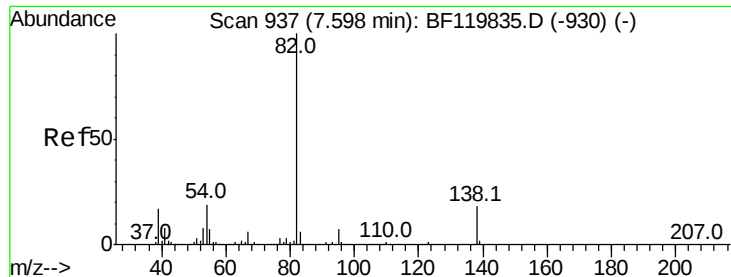


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 7.028 ng

RT: 7.28 min Scan# 883

Delta R.T. -0.28 min

Lab File: BF120026.D

Acq: 16 Apr 2020 10:46

Instrument :

BNA_F

ClientSampled :

TP-1-9-17

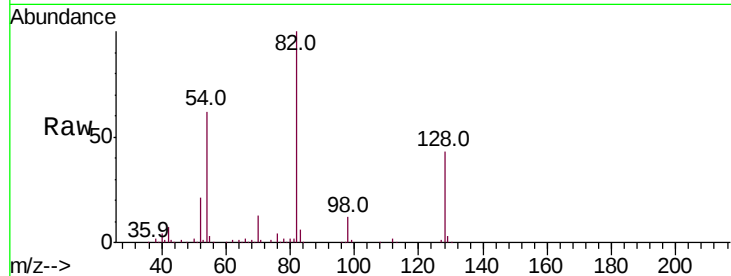
Tot Ion: 82 Resp: 152938

Ion Ratio Lower Upper

82 100

95 0.0 5.8 8.6#

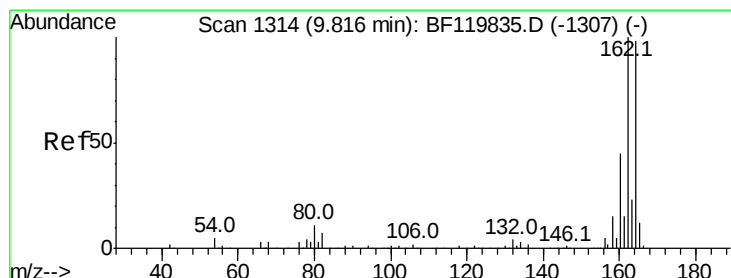
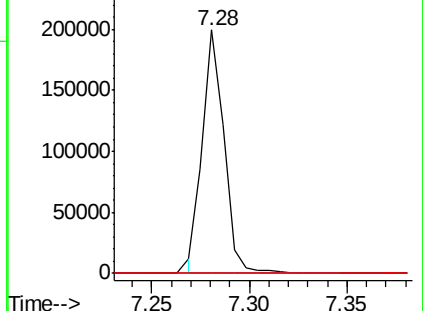
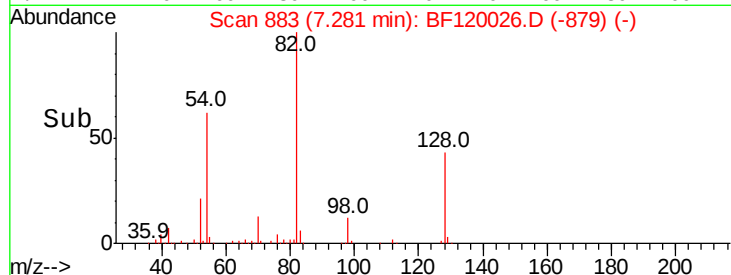
138 0.0 14.5 21.7#



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: BF120026.D

Acq: 16 Apr 2020 10:46

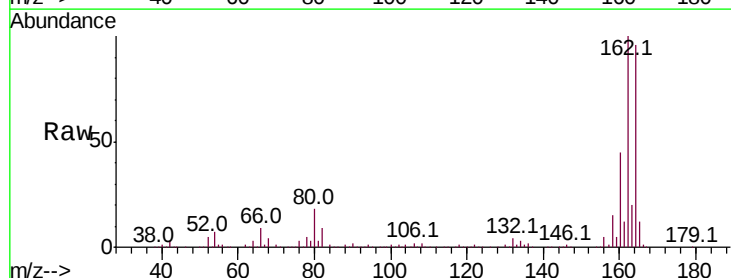
Tgt Ion:164 Resp: 286512

Ion Ratio Lower Upper

164 100

162 103.8 81.9 122.9

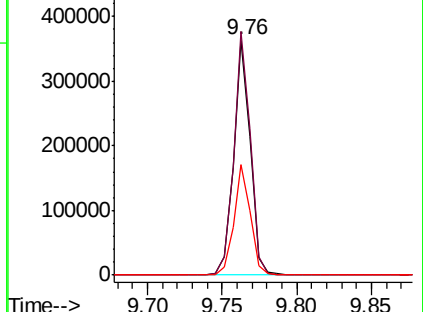
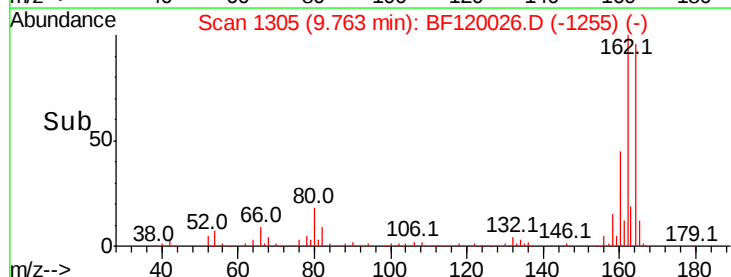
160 46.8 36.6 54.8

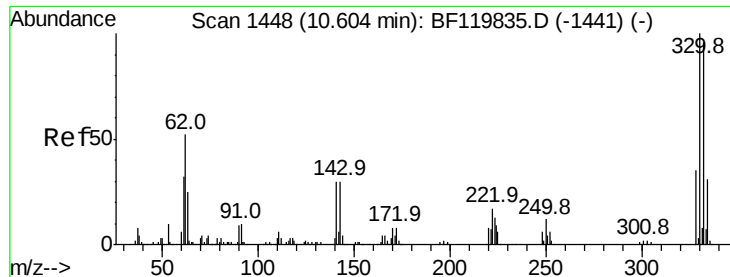


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

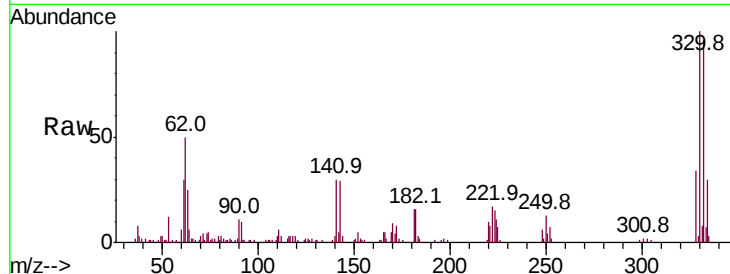




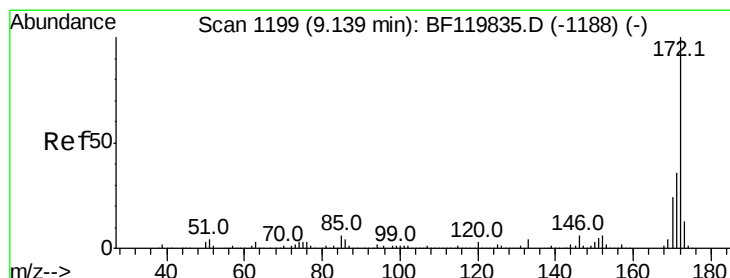
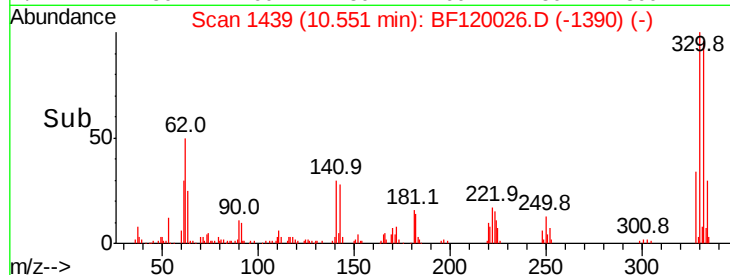
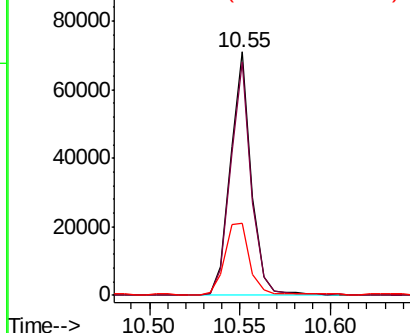
#42
 2,4,6-Tribromophenol
 Concen: 16.223 ng
 RT: 10.55 min Scan# 1439
 Delta R.T. -0.01 min
 Lab File: BF120026.D
 Acq: 16 Apr 2020 10:46

Instrument :
 BNA_F
 ClientSampleId :
 TP-1-9-17

Tot Ion	Ratio	Lower	Upper
330	100		
332	95.1	76.8	115.2
141	36.9	25.1	37.7

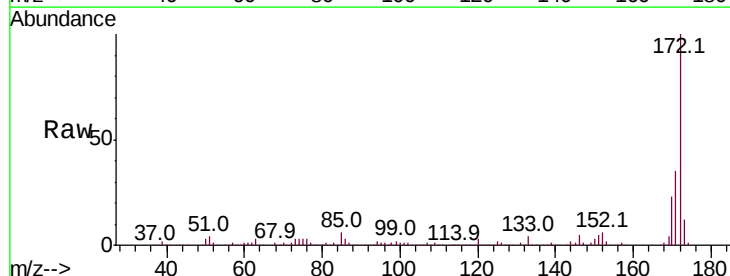


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

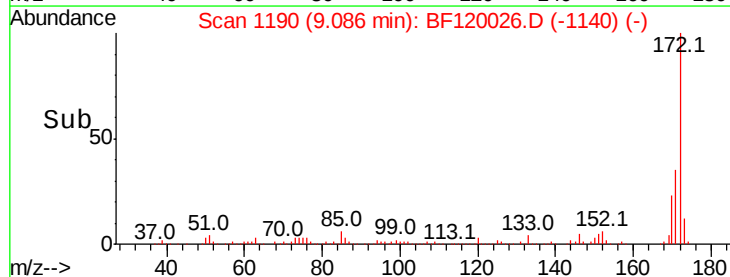
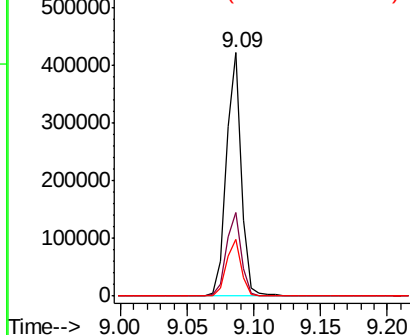


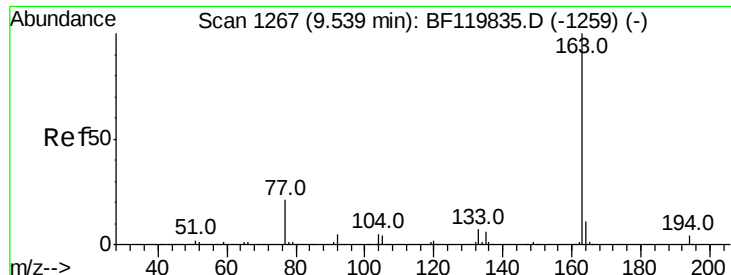
#45
 2-Fluorobiphenyl
 Concen: 16.485 ng
 RT: 9.09 min Scan# 1190
 Delta R.T. -0.01 min
 Lab File: BF120026.D
 Acq: 16 Apr 2020 10:46

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.6	28.9	43.3
170	23.5	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

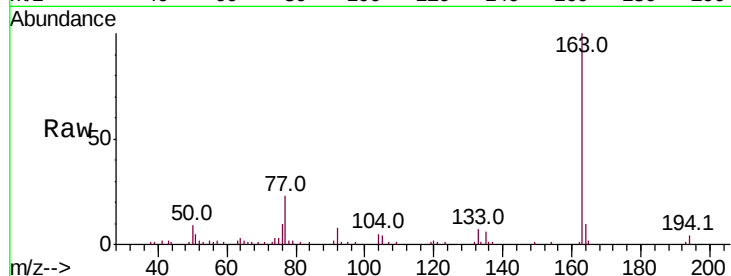




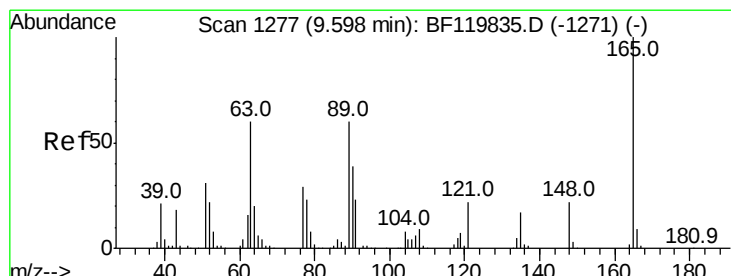
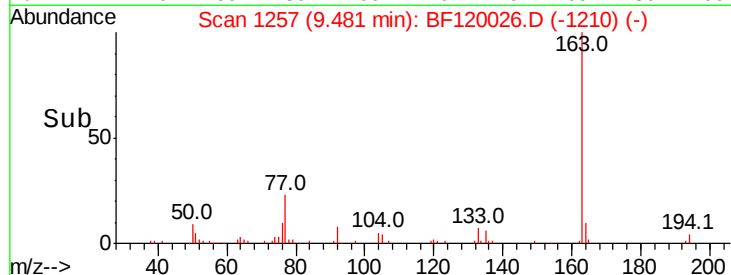
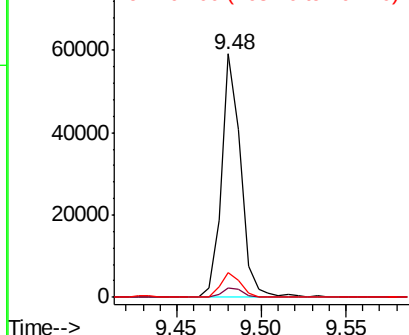
#50
Dimethylphthalate
Concen: 2.127 ng
RT: 9.48 min Scan# 1257
Delta R.T. -0.02 min
Lab File: BF120026.D
Acq: 16 Apr 2020 10:46

Instrument :
BNA_F
ClientSampleId :
TP-1-9-17

Tot Ion	Ratio	Lower	Upper
163	100		
194	3.6	3.0	4.4
164	9.9	8.4	12.6

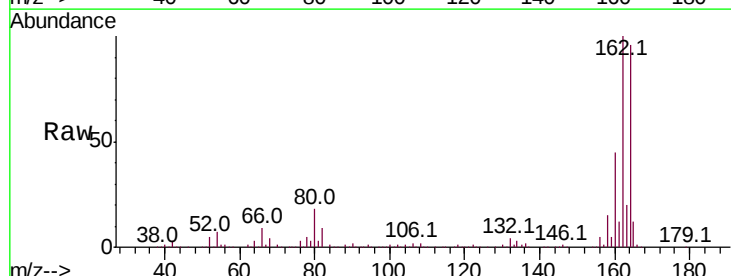


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

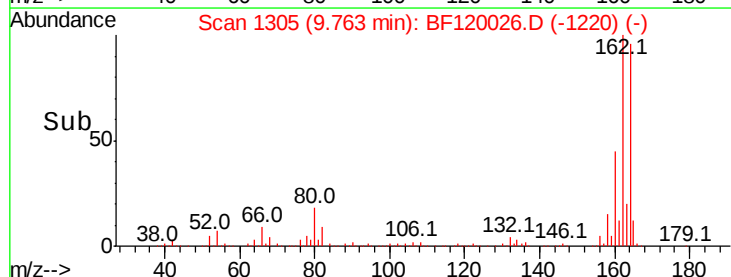
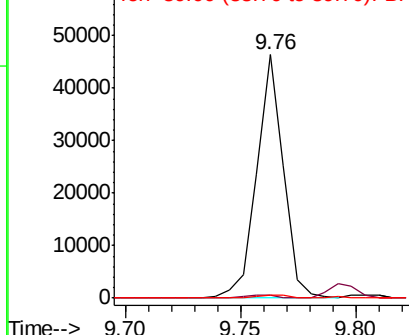


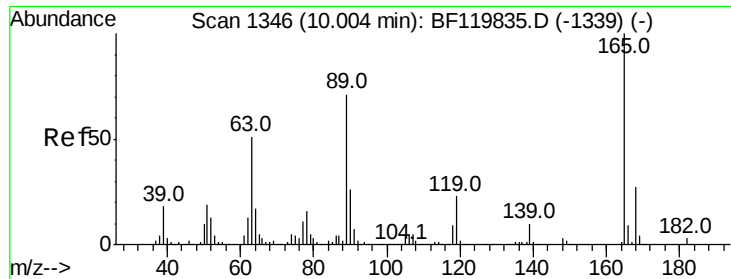
#51
2,6-Dinitrotoluene
Concen: 7.728 ng
RT: 9.76 min Scan# 1305
Delta R.T. 0.20 min
Lab File: BF120026.D
Acq: 16 Apr 2020 10:46

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.3	55.6	83.4#
89	1.2	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

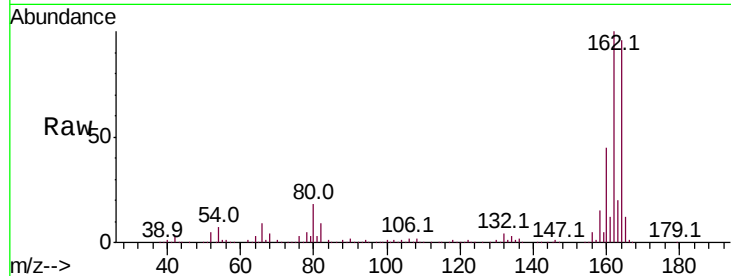




#57
 2,4-Dinitrotoluene
 Concen: 5.865 ng
 RT: 9.76 min Scan# 1305
 Delta R.T. -0.20 min
 Lab File: BF120026.D
 Acq: 16 Apr 2020 10:46

Instrument :
 BNA_F
 ClientSampleId :
 TP-1-9-17

Tot Ion	Ratio	Lower	Upper
165	100		
63	1.3	40.8	61.2#
89	1.2	56.9	85.3#
182	0.0	2.0	3.0#

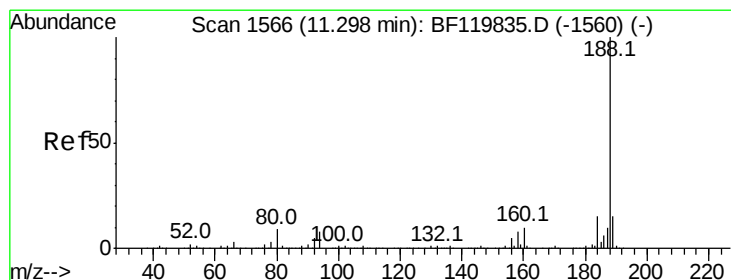
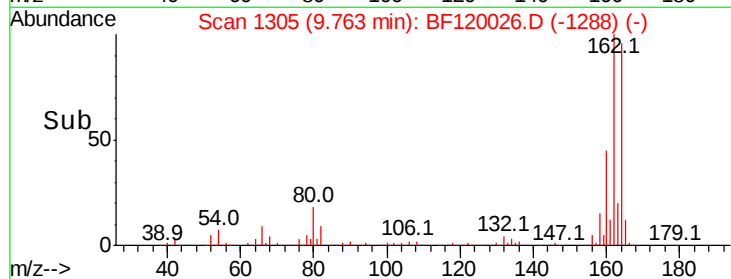
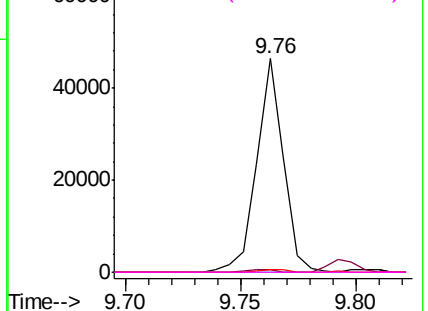


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

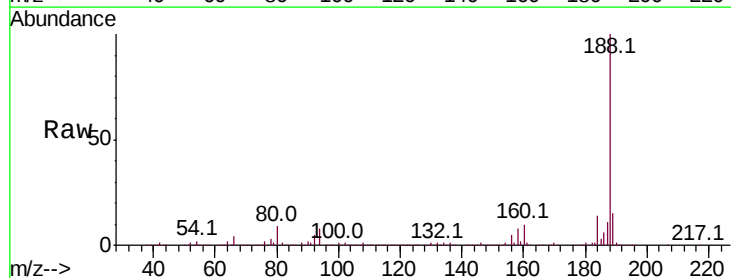
Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.25 min Scan# 1558
 Delta R.T. 0.00 min
 Lab File: BF120026.D
 Acq: 16 Apr 2020 10:46

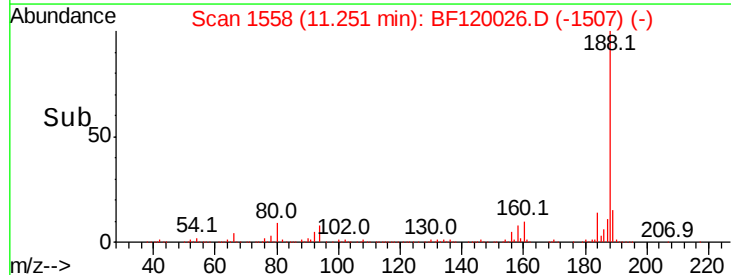
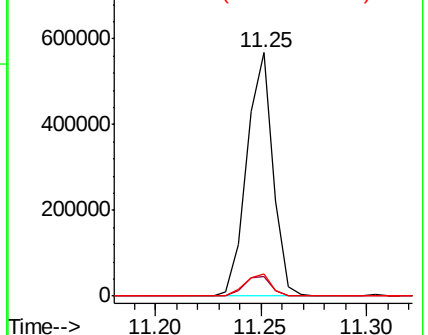
Tgt Ion	Ratio	Lower	Upper
188	100		
94	8.1	6.7	10.1
80	8.9	7.4	11.2

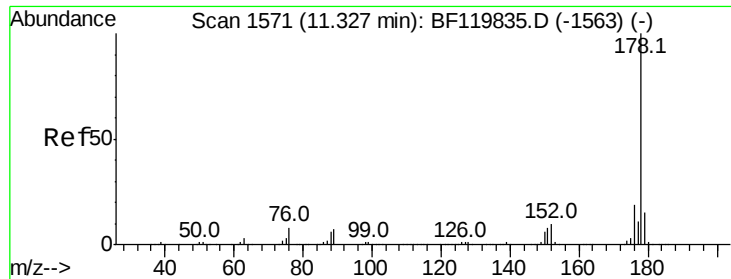


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





#71

Phenanthrene

Concen: 16.073 ng

RT: 11.27 min Scan# 1562

Delta R.T. -0.01 min

Lab File: BF120026.D

Acq: 16 Apr 2020 10:46

Instrument :

BNA_F

ClientSampleId :

TP-1-9-17

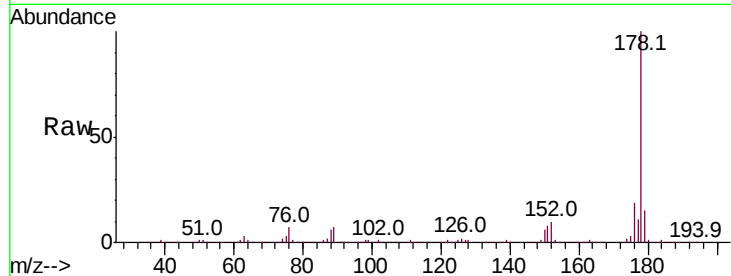
Tot Ion:178 Resp: 416138

Ion Ratio Lower Upper

178 100

176 19.4 15.1 22.7

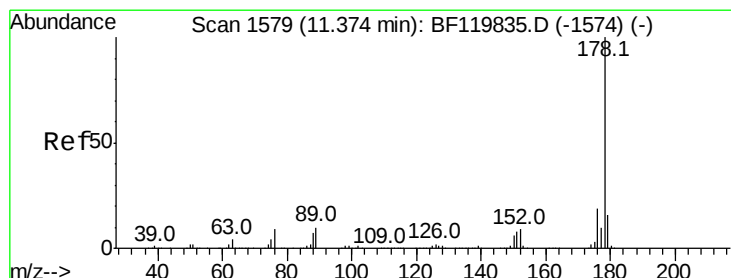
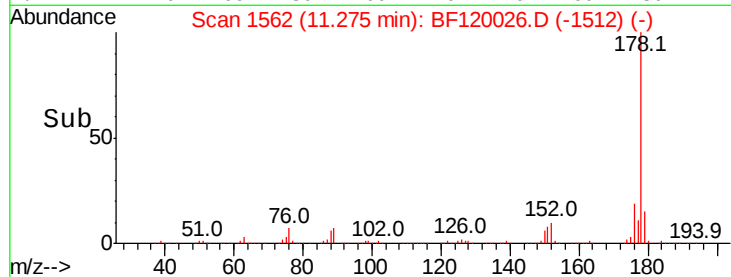
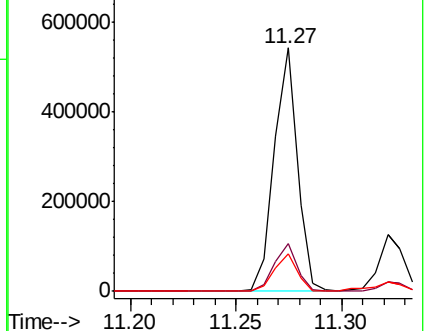
179 15.5 12.2 18.4



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: 3.815 ng

RT: 11.32 min Scan# 1570

Delta R.T. -0.01 min

Lab File: BF120026.D

Acq: 16 Apr 2020 10:46

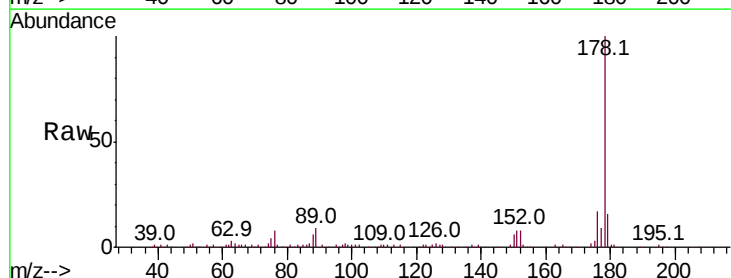
Tgt Ion:178 Resp: 100910

Ion Ratio Lower Upper

178 100

176 17.1 15.4 23.2

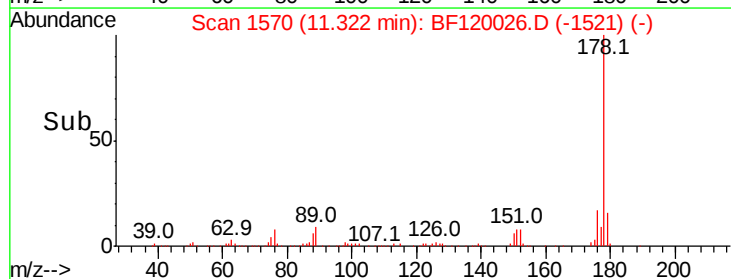
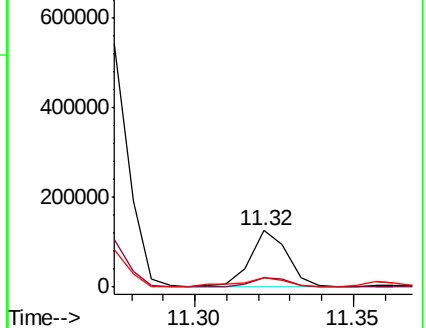
179 15.9 12.8 19.2

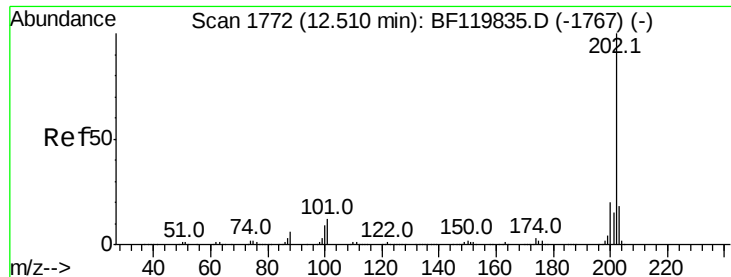


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 20.218 ng

RT: 12.46 min Scan# 1764

Delta R.T. -0.01 min

Lab File: BF120026.D

Acq: 16 Apr 2020 10:46

Instrument :

BNA_F

ClientSampleId :

TP-1-9-17

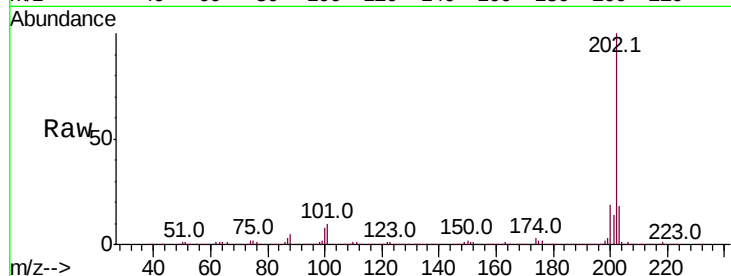
Tot Ion:202 Resp: 564805

Ion Ratio Lower Upper

202 100

101 10.2 0.0 32.3

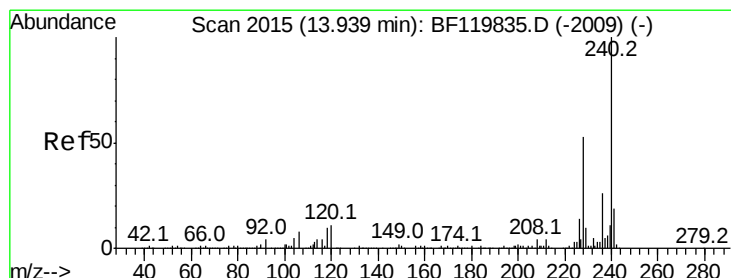
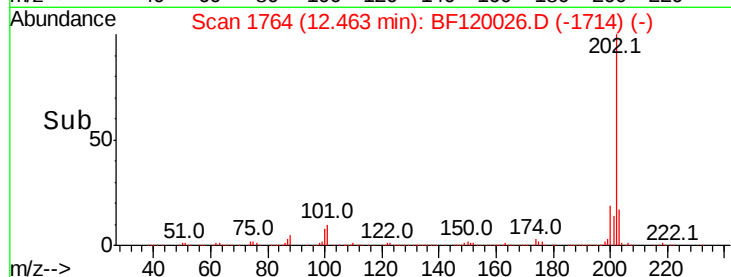
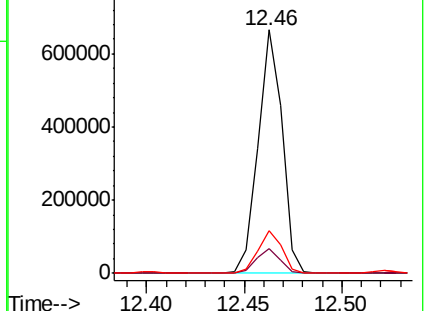
203 17.5 0.0 37.6



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: BF120026.D

Acq: 16 Apr 2020 10:46

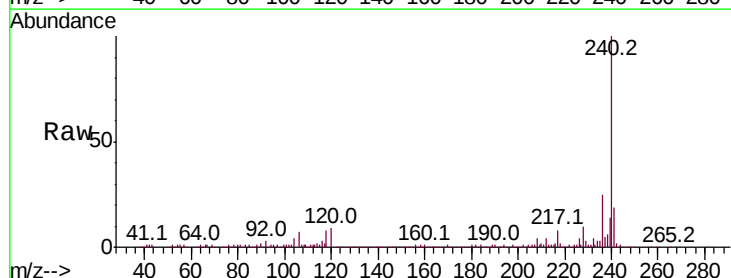
Tgt Ion:240 Resp: 278178

Ion Ratio Lower Upper

240 100

120 9.4 9.0 13.6

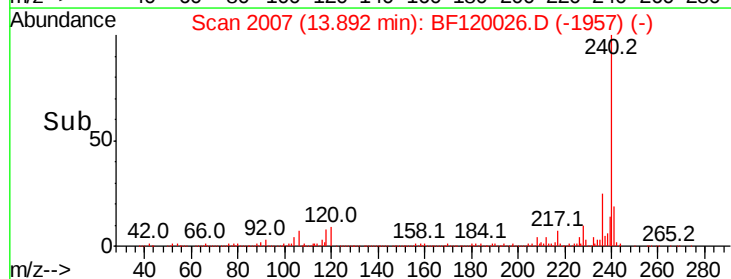
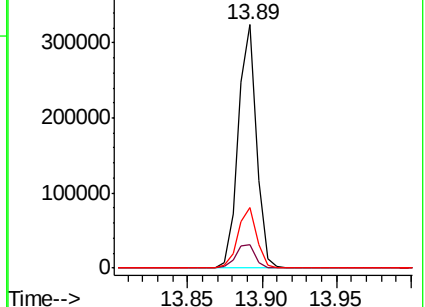
236 25.1 20.7 31.1

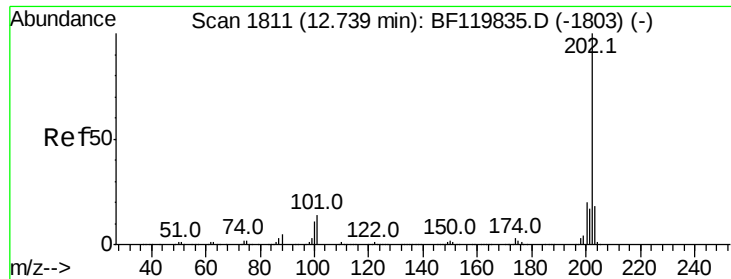


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

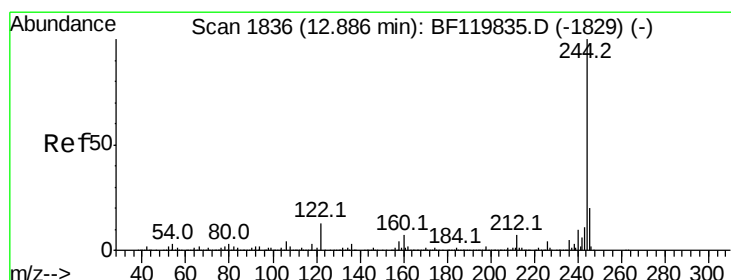
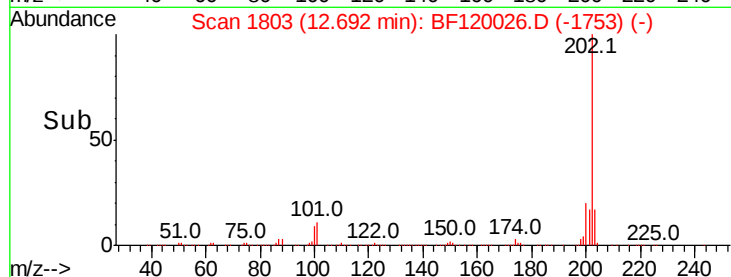
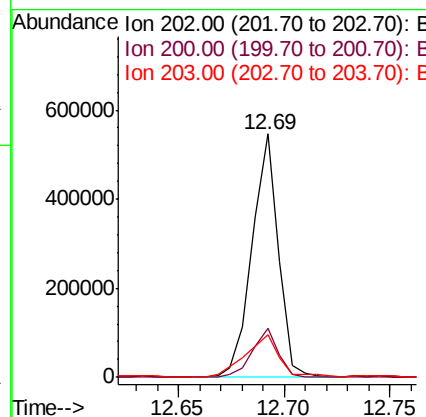
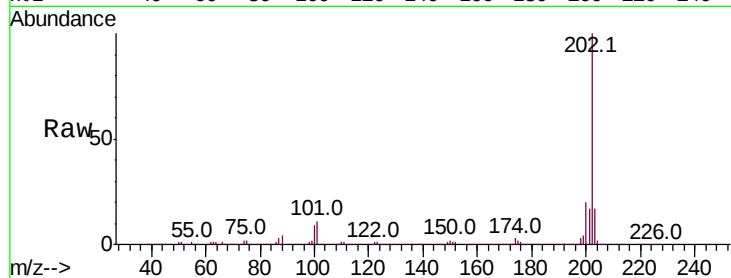




#78
Pvrene
Concen: 20.116 ng
RT: 12.69 min Scan# 1803
Delta R.T. -0.01 min
Lab File: BF120026.D
Acq: 16 Apr 2020 10:46

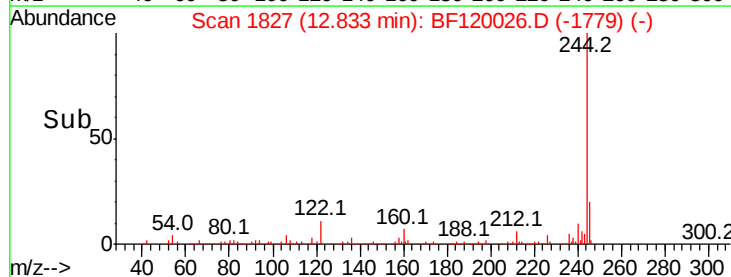
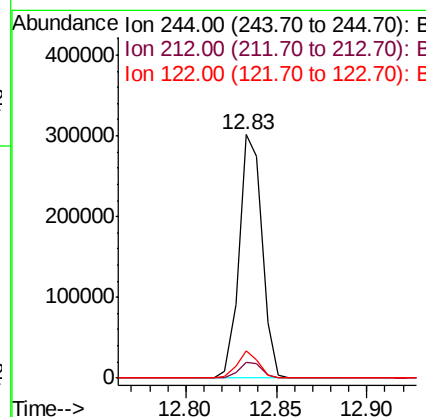
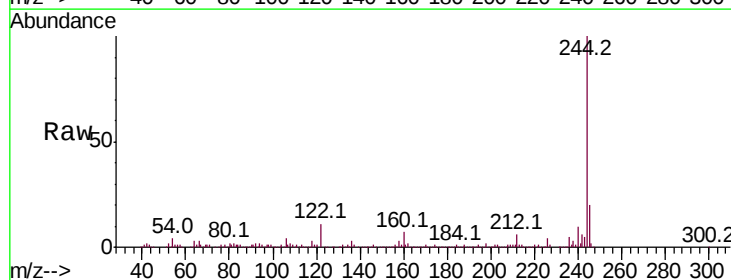
Instrument :
BNA_F
ClientSampleId :
TP-1-9-17

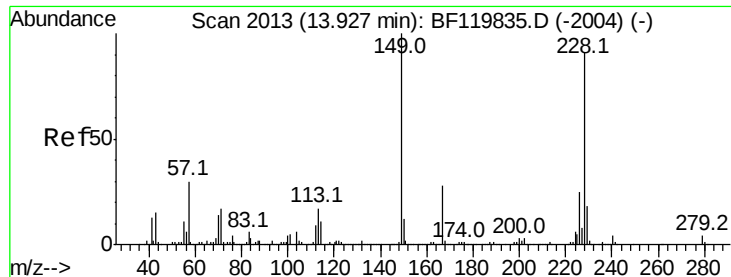
Tot Ion	Ratio	Lower	Upper
202	100		
200	20.1	16.2	24.2
203	17.3	14.1	21.1



#79
Terphenyl-d14
Concen: 16.040 ng
RT: 12.83 min Scan# 1827
Delta R.T. -0.02 min
Lab File: BF120026.D
Acq: 16 Apr 2020 10:46

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.4	8.0
122	11.0	10.3	15.5





#81

Benzo(a)anthracene

Concen: 11.850 ng

RT: 13.88 min Scan# 2005

Delta R.T. -0.01 min

Lab File: BF120026.D

Acq: 16 Apr 2020 10:46

Instrument :

BNA_F

ClientSampleId :

TP-1-9-17

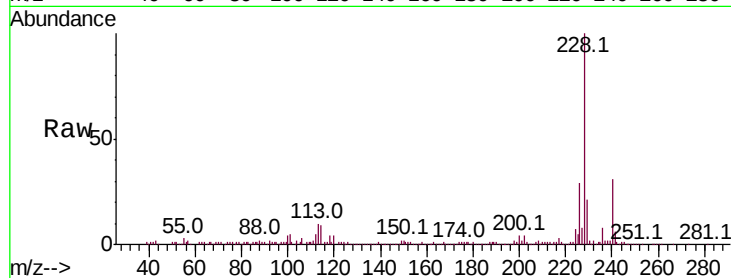
Tot Ion:228 Resp: 216858

Ion Ratio Lower Upper

228 100

226 29.1 21.9 32.9

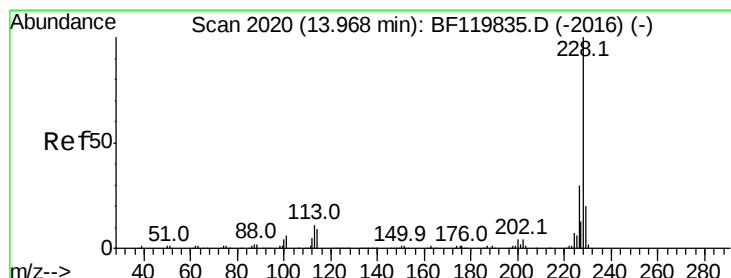
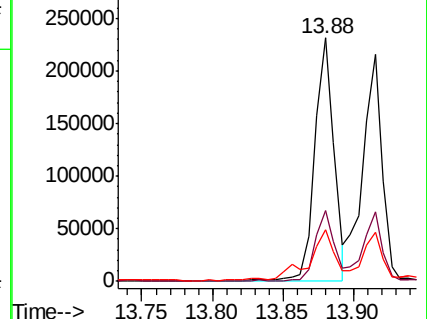
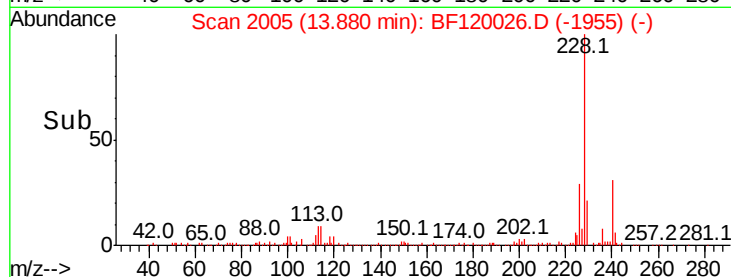
229 21.4 15.9 23.9



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: 10.320 ng

RT: 13.92 min Scan# 2011

Delta R.T. -0.01 min

Lab File: BF120026.D

Acq: 16 Apr 2020 10:46

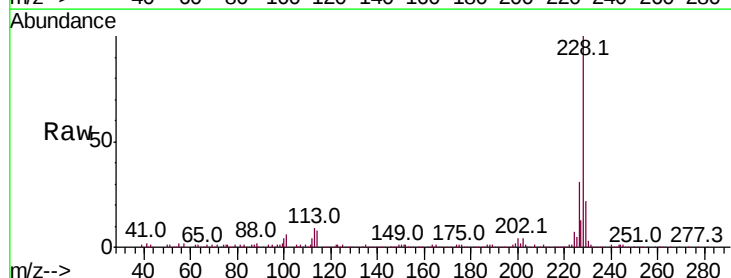
Tgt Ion:228 Resp: 191901

Ion Ratio Lower Upper

228 100

226 30.5 24.2 36.2

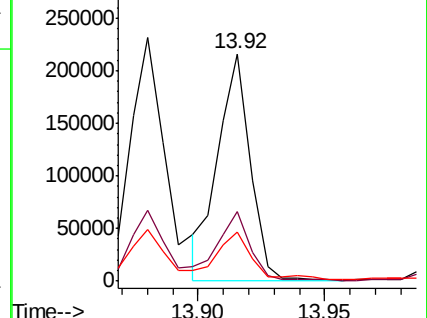
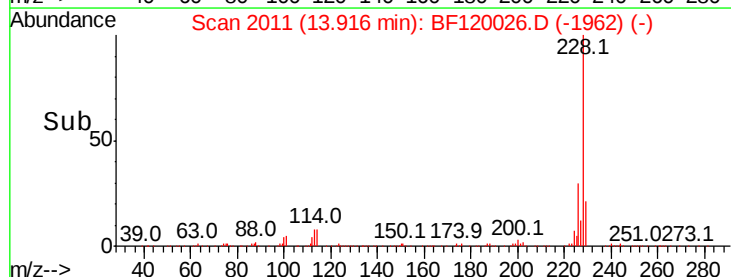
229 21.8 15.9 23.9

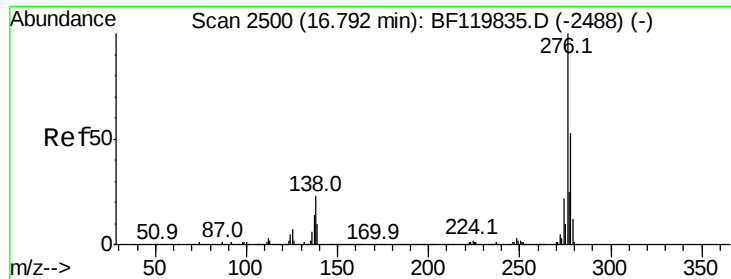


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

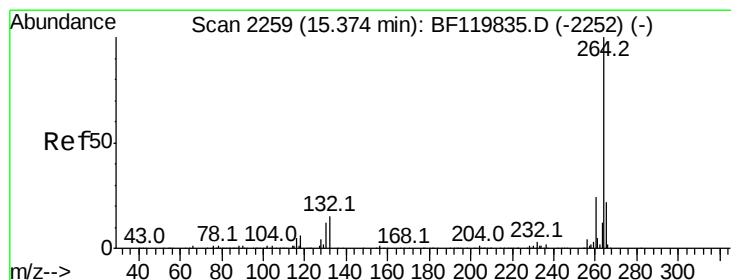
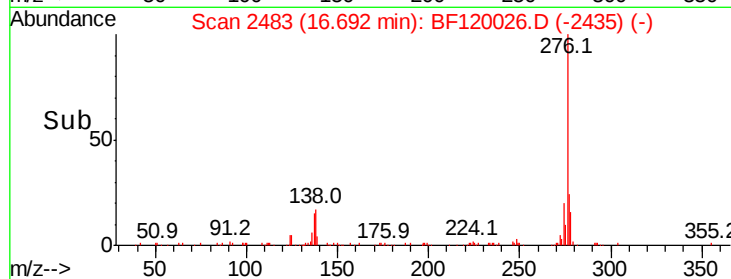
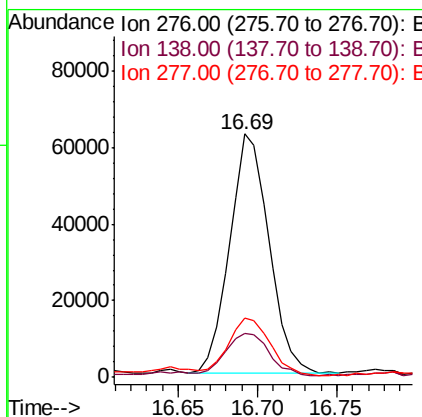
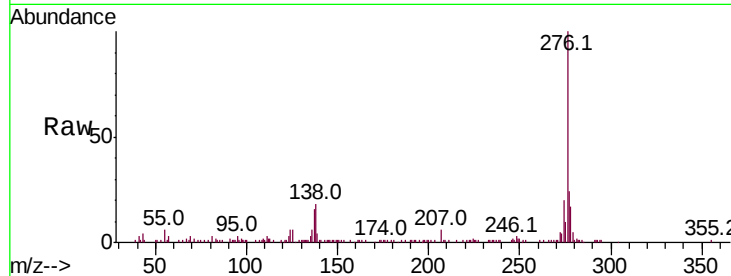




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 6.614 ng
 RT: 16.69 min Scan# 2483
 Delta R.T. -0.02 min
 Lab File: BF120026.D
 Acq: 16 Apr 2020 10:46

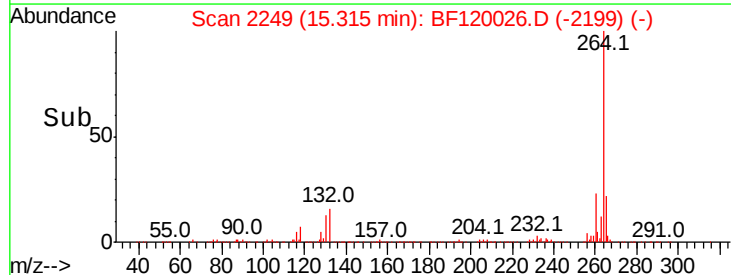
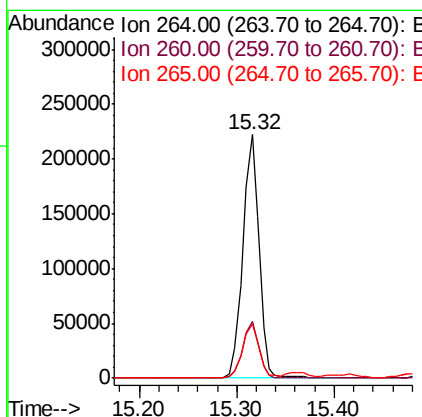
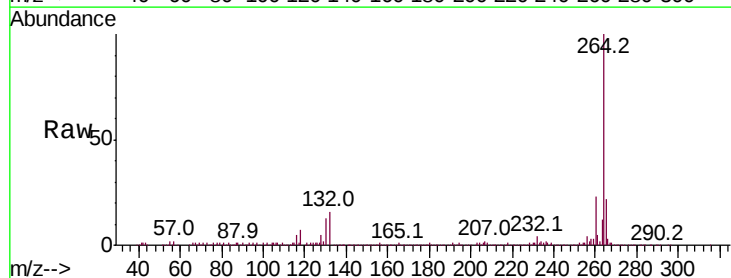
Instrument :
 BNA_F
 ClientSampleId :
 TP-1-9-17

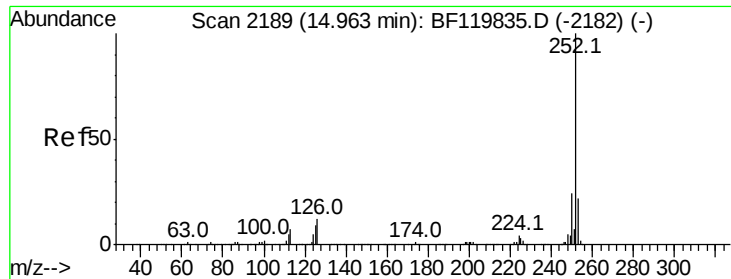
Tot Ion	Ratio	Lower	Upper
276	100		
138	19.3	18.0	27.0
277	25.3	20.1	30.1



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.32 min Scan# 2249
 Delta R.T. -0.01 min
 Lab File: BF120026.D
 Acq: 16 Apr 2020 10:46

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.4	19.3	28.9
265	22.3	17.6	26.4

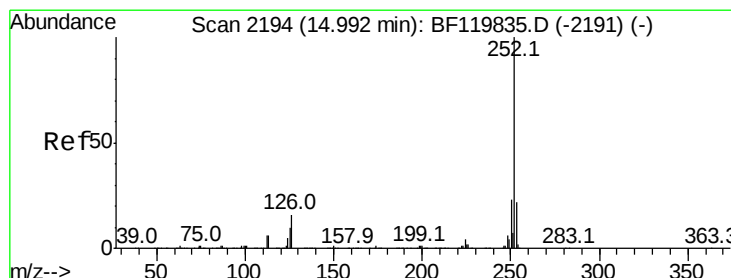
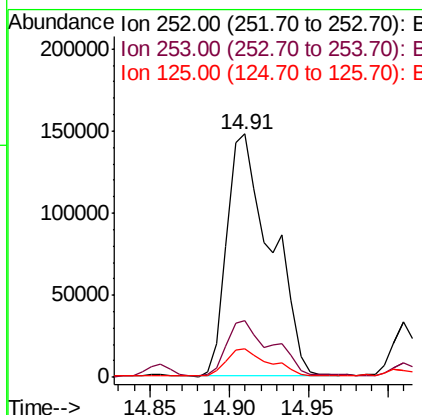
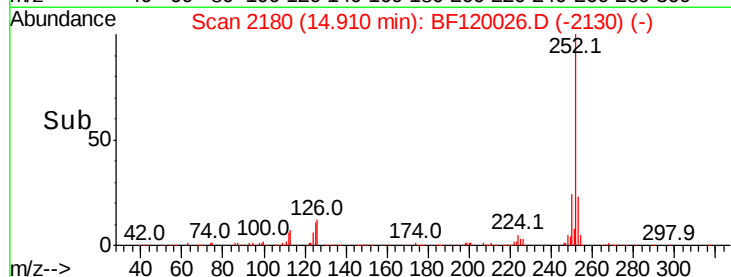
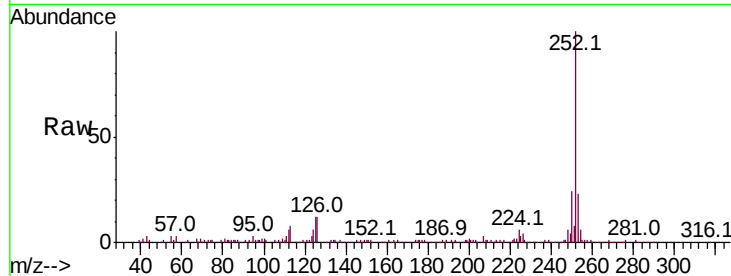




#88
Benzo(b)fluoranthene
Concen: 15.388 ng
RT: 14.91 min Scan# 2180
Delta R.T. -0.01 min
Lab File: BF120026.D
Acq: 16 Apr 2020 10:46

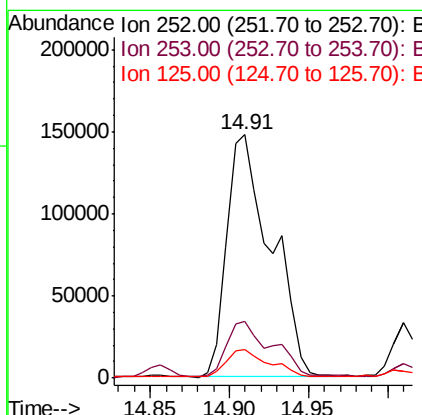
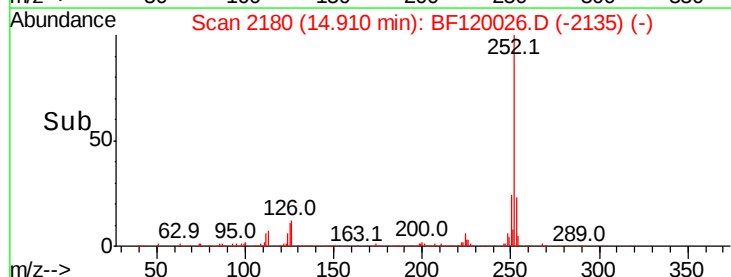
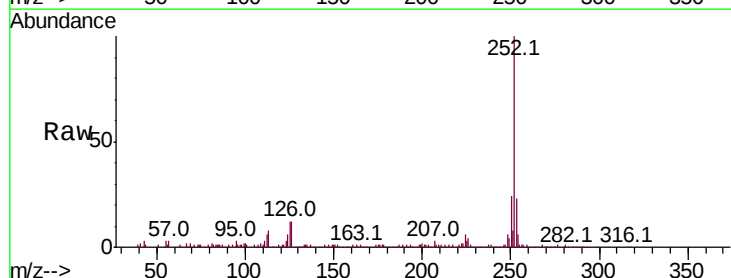
Instrument :
BNA_F
ClientSampleId :
TP-1-9-17

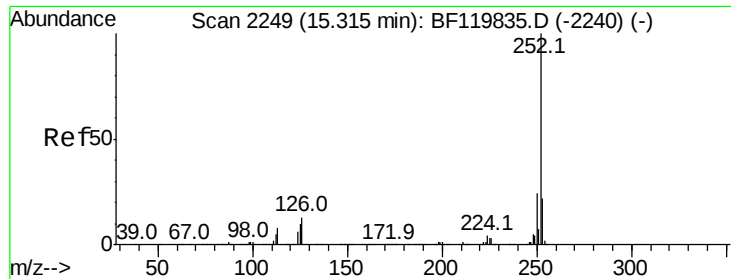
Tot Ion:252 Resp: 285622
Ion Ratio Lower Upper
252 100
253 23.3 17.7 26.5
125 11.6 7.4 11.2#



#89
Benzo(k)fluoranthene
Concen: 17.835 ng
RT: 14.91 min Scan# 2180
Delta R.T. -0.04 min
Lab File: BF120026.D
Acq: 16 Apr 2020 10:46

Tgt Ion:252 Resp: 285622
Ion Ratio Lower Upper
252 100
253 23.3 17.8 26.8
125 11.6 7.7 11.5#

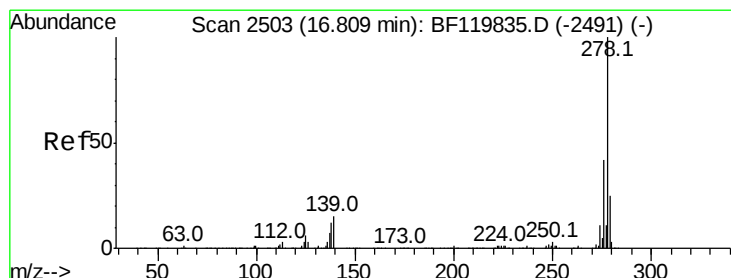
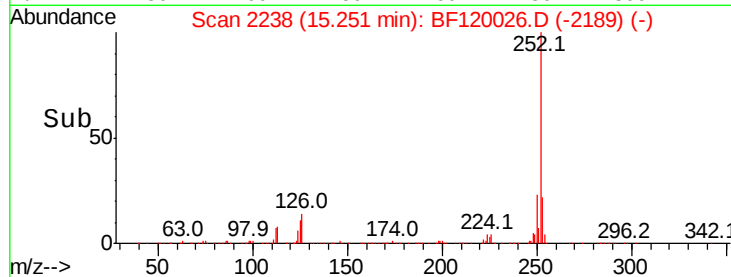
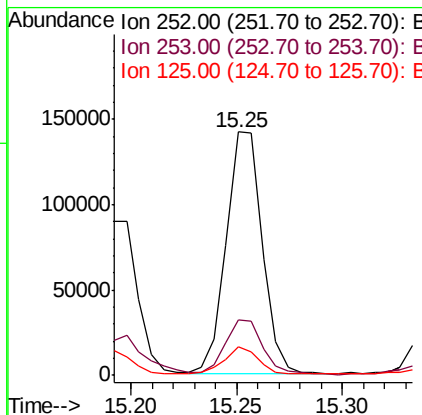
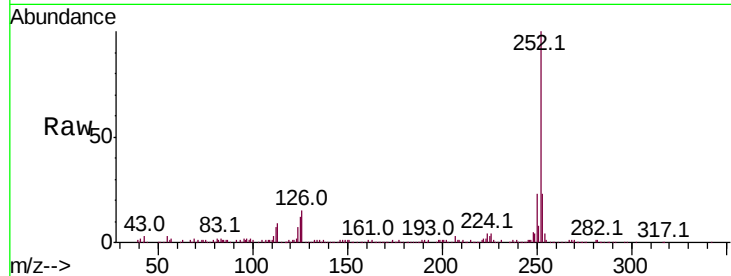




#90
Benzo(a)pyrene
Concen: 10.766 ng
RT: 15.25 min Scan# 2238
Delta R.T. -0.01 min
Lab File: BF120026.D
Acq: 16 Apr 2020 10:46

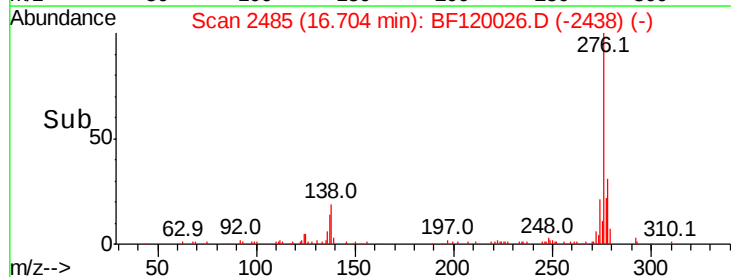
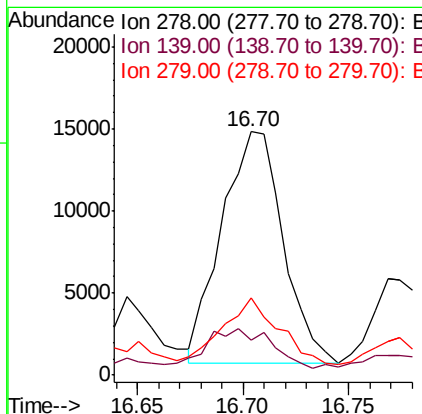
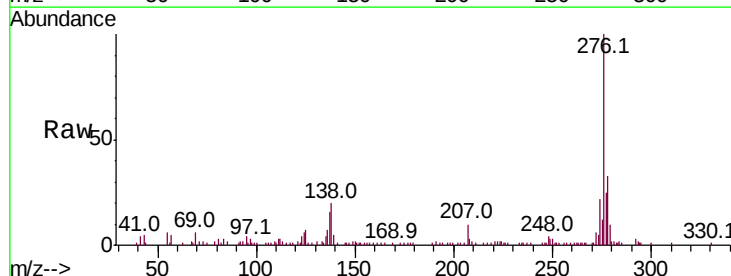
Instrument :
BNA_F
ClientSampleId :
TP-1-9-17

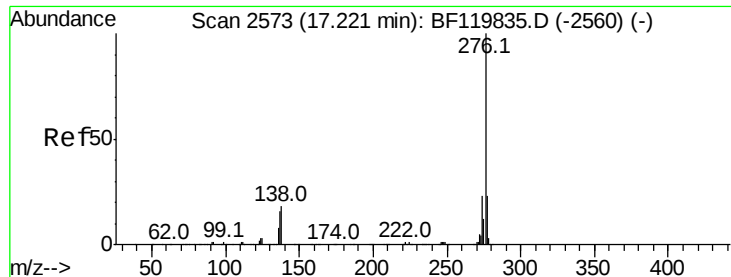
Tot Ion:252 Resp: 168011
Ion Ratio Lower Upper
252 100
253 23.0 17.4 26.2
125 11.6 8.3 12.5



#91
Dibenzo(a,h)anthracene
Concen: 2.052 ng
RT: 16.70 min Scan# 2485
Delta R.T. -0.02 min
Lab File: BF120026.D
Acq: 16 Apr 2020 10:46

Tgt Ion:278 Resp: 28373
Ion Ratio Lower Upper
278 100
139 14.2 11.6 17.4
279 31.6 19.7 29.5#





#92
 Benzo(a,h,i)perylene
 Concen: 7.598 ng
 RT: 17.11 min Scan# 2554
 Delta R.T. -0.02 min
 Lab File: BF120026.D
 Acq: 16 Apr 2020 10:46

Instrument :
 BNA_F
 ClientSampleId :
 TP-1-9-17

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.0	18.5	27.7
138	19.2	14.6	22.0

