

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103020\
 Data File : BF122215.D
 Acq On : 31 Oct 2020 11:42
 Operator : JU/CG
 Sample : L4521-05
 Misc :
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 S-1

Quant Time: Nov 01 23:52:07 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101220.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 30 10:16:54 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

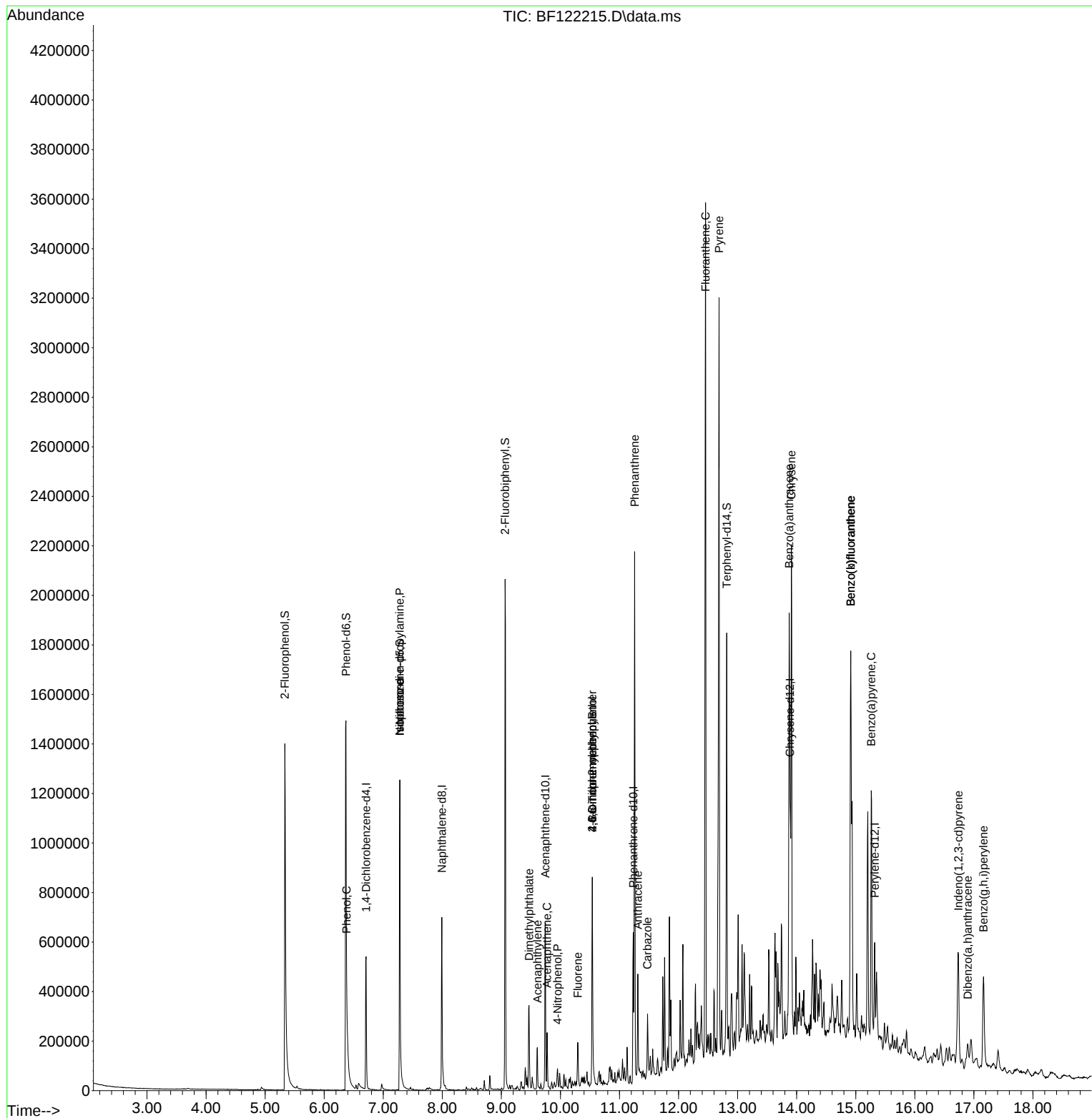
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.710	152	87418	20.00	ng	0.00
21) Naphthalene-d8	7.992	136	324730	20.00	ng	0.00
39) Acenaphthene-d10	9.745	164	137690	20.00	ng	0.00
64) Phenanthrene-d10	11.233	188	212867	20.00	ng	0.00
76) Chrysene-d12	13.886	240	188712	20.00	ng	0.00
86) Perylene-d12	15.321	264	177712	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.334	112	544179	91.88	ng	0.00
7) Phenol-d6	6.369	99	686413	90.03	ng	0.00
23) Nitrobenzene-d5	7.281	82	431855	68.20	ng	0.00
42) 2,4,6-Tribromophenol	10.539	330	107784	63.28	ng	0.00
45) 2-Fluorobiphenyl	9.063	172	645939	69.02	ng	-0.01
79) Terphenyl-d14	12.816	244	477786	48.25	ng	0.00
Target Compounds						
						Qvalue
9) Benzaldehyde	6.369	77	2227	Below Cal	#	21
10) Phenol	6.381	94	35615	4.53	ng	83
19) n-Nitroso-di-n-propyla...	7.281	70	56794	13.08	ng	# 80
25) Isophorone	7.281	82	431853	36.07	ng	# 67
49) Acenaphthylene	9.610	152	70044	5.24	ng	100
50) Dimethylphthalate	9.469	163	141852	14.09	ng	99
52) Acenaphthene	9.775	154	46318	5.82	ng	99
56) 4-Nitrophenol	9.951	139	8794	6.44	ng	# 14
58) Fluorene	10.292	166	50786	5.42	ng	99
65) 4,6-Dinitro-2-methylph...	10.539	198	107	4.50	ng	# 1
67) 4-Bromophenyl-phenylether	10.539	248	6340	2.58	ng	# 1
71) Phenanthrene	11.257	178	731308	62.66	ng	99
72) Anthracene	11.310	178	162980	13.46	ng	98
73) Carbazole	11.474	167	89510	8.32	ng	100
75) Fluoranthene	12.457	202	1459136	116.59	ng	98
78) Pyrene	12.686	202	1342353	93.34	ng	99
81) Benzo(a)anthracene	13.874	228	610817	49.39	ng	97
83) Chrysene	13.910	228	767485	63.22	ng	98
87) Indeno(1,2,3-cd)pyrene	16.739	276	296949	25.74	ng	93
88) Benzo(b)fluoranthene	14.915	252	1165000	96.98	ng	99
89) Benzo(k)fluoranthene	14.915	252	1165000	102.09	ng	98
90) Benzo(a)pyrene	15.262	252	491157	47.34	ng	97
91) Dibenzo(a,h)anthracene	16.898	278	43640	4.59	ng	94
92) Benzo(g,h,i)perylene	17.162	276	287295	30.22	ng	98

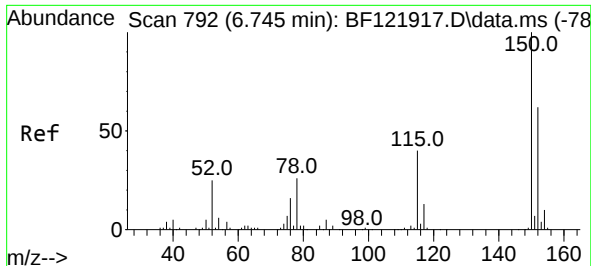
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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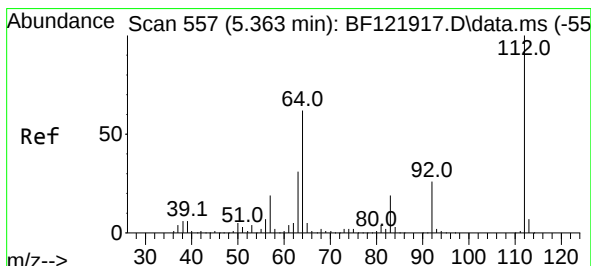
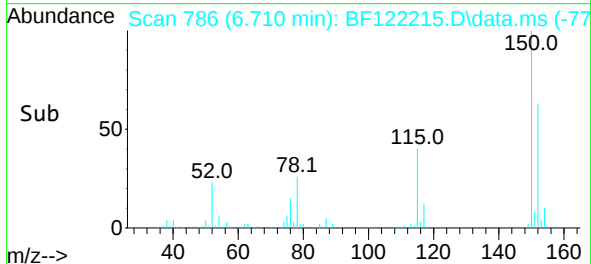
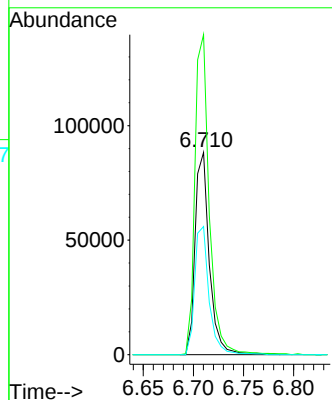
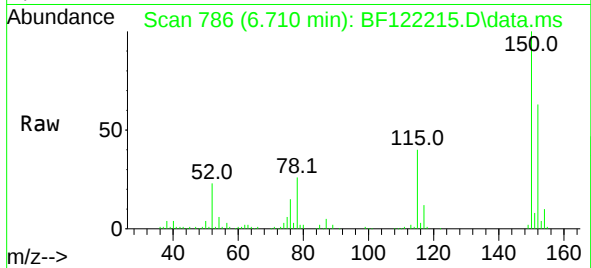




#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.710 min Scan# 786
Delta R.T. -0.006 min
Lab File: BF122215.D
Acq: 31 Oct 2020 11:42

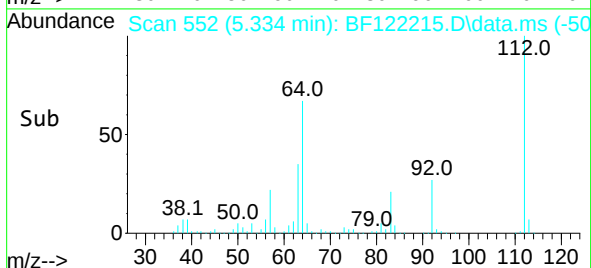
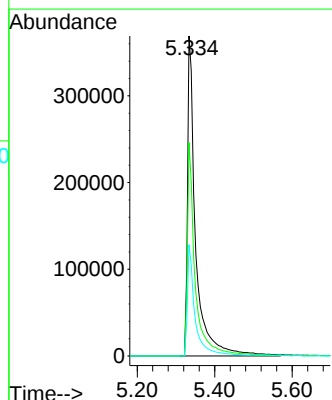
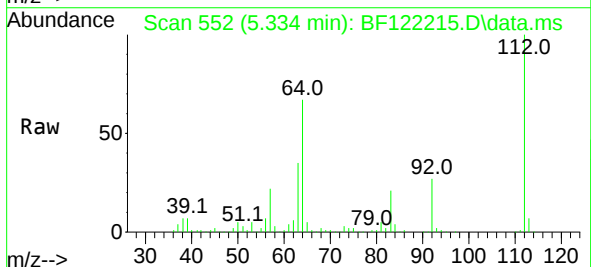
Instrument :
BNA_F
ClientSampleId :
S-1

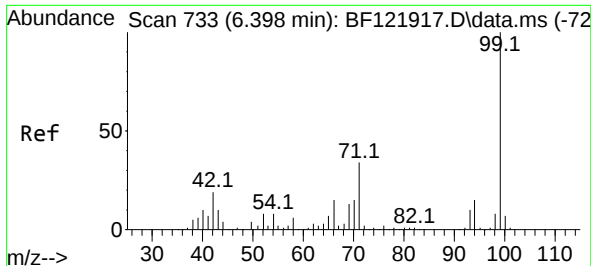
Tgt Ion:152 Resp: 87418
Ion Ratio Lower Upper
152 100
150 158.2 125.3 187.9
115 63.4 51.9 77.9



#5
2-Fluorophenol
Concen: 91.88 ng
RT: 5.334 min Scan# 552
Delta R.T. -0.000 min
Lab File: BF122215.D
Acq: 31 Oct 2020 11:42

Tgt Ion:112 Resp: 544179
Ion Ratio Lower Upper
112 100
64 66.7 50.4 75.6
63 34.8 25.8 38.6

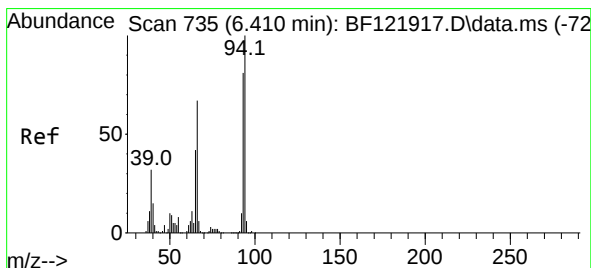
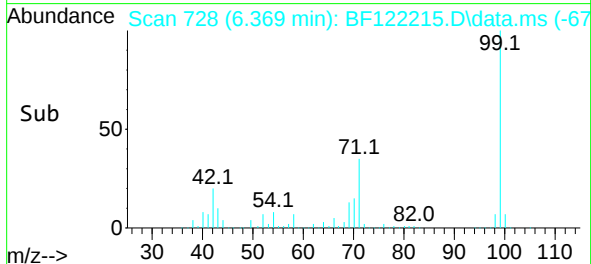
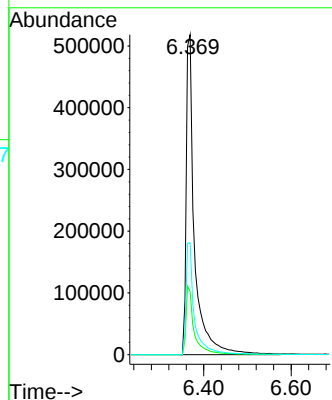
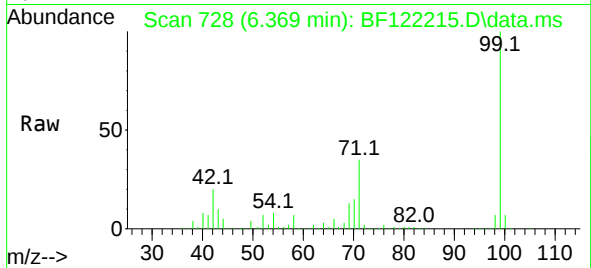




#7
Phenol-d6
Concen: 90.03 ng
RT: 6.369 min Scan# 728
Delta R.T. -0.000 min
Lab File: BF122215.D
Acq: 31 Oct 2020 11:42

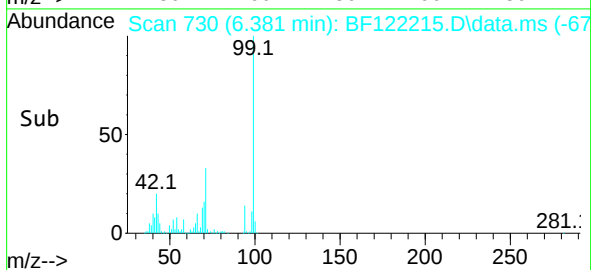
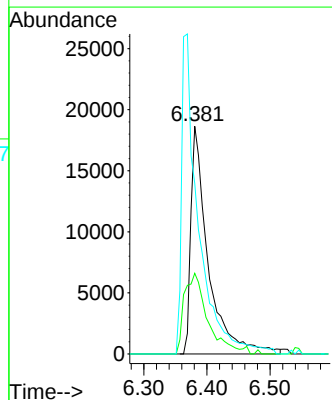
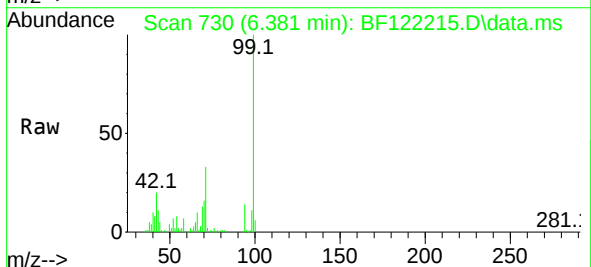
Instrument :
BNA_F
ClientSampleId :
S-1

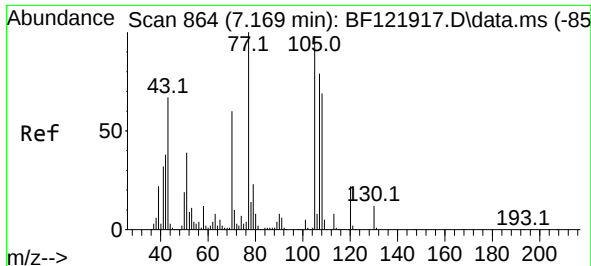
Tgt Ion: 99 Resp: 686413
Ion Ratio Lower Upper
99 100
42 19.8 15.9 23.9
71 35.0 27.1 40.7



#10
Phenol
Concen: 4.53 ng
RT: 6.381 min Scan# 730
Delta R.T. -0.000 min
Lab File: BF122215.D
Acq: 31 Oct 2020 11:42

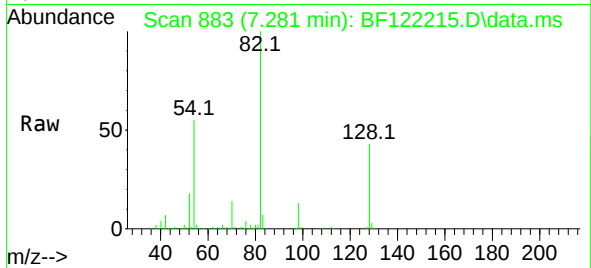
Tgt Ion: 94 Resp: 35615
Ion Ratio Lower Upper
94 100
65 35.4 17.1 57.1
66 74.9 36.0 76.0



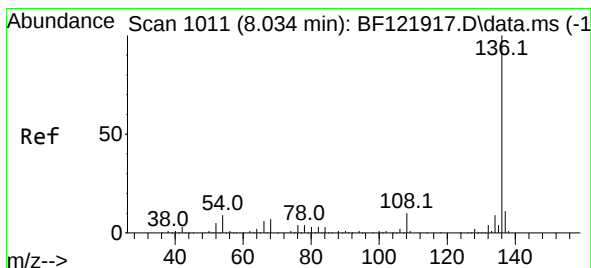
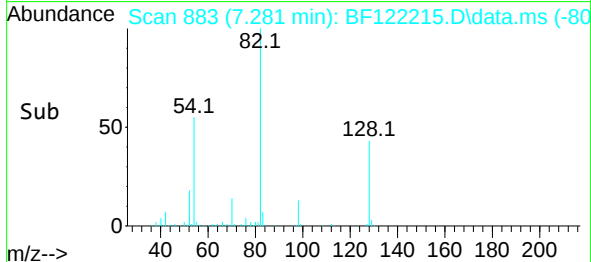
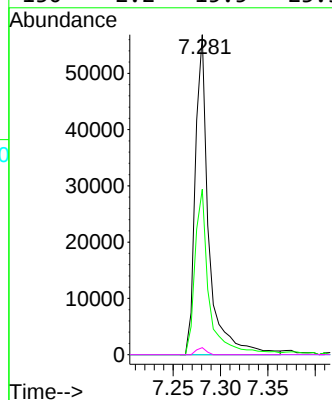


#19
n-Nitroso-di-n-propylamine
Concen: 13.08 ng
RT: 7.281 min Scan# 883
Delta R.T. 0.141 min
Lab File: BF122215.D
Acq: 31 Oct 2020 11:42

Instrument :
BNA_F
ClientSampleId :
S-1

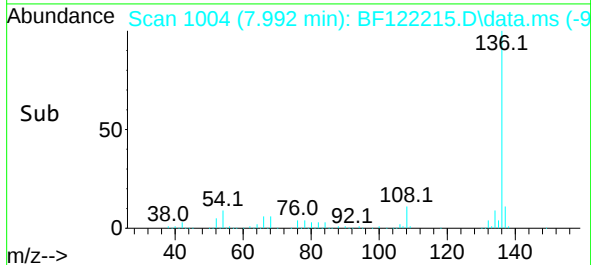
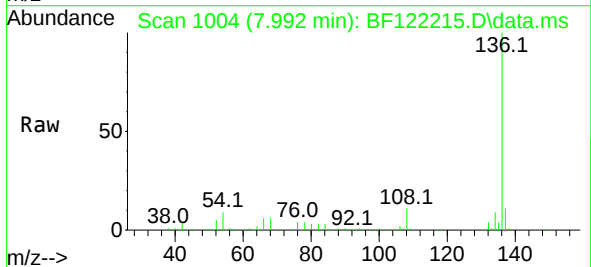
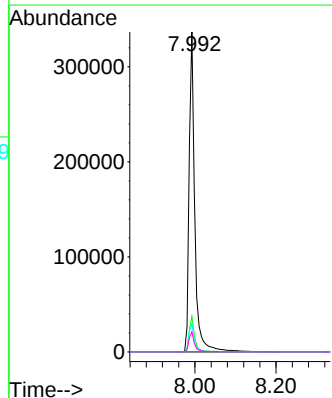


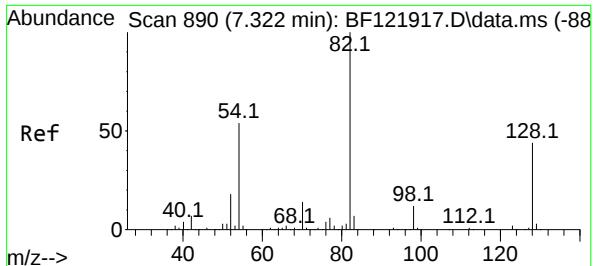
Tgt Ion: 70 Resp: 56794
Ion Ratio Lower Upper
70 100
42 51.7 50.2 75.4
101 0.0 7.5 11.3#
130 2.2 15.5 23.3#



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.992 min Scan# 1004
Delta R.T. -0.006 min
Lab File: BF122215.D
Acq: 31 Oct 2020 11:42

Tgt Ion: 136 Resp: 324730
Ion Ratio Lower Upper
136 100
137 11.1 8.6 13.0
54 8.8 7.1 10.7
68 6.3 5.0 7.4





#23

Nitrobenzene-d5

Concen: 68.20 ng

RT: 7.281 min Scan# 883

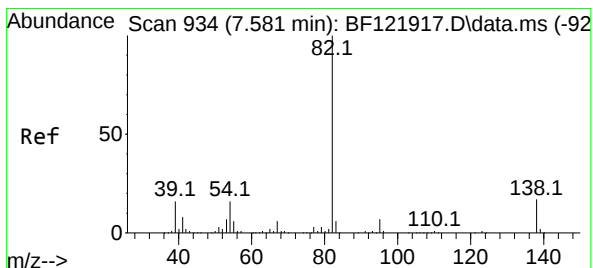
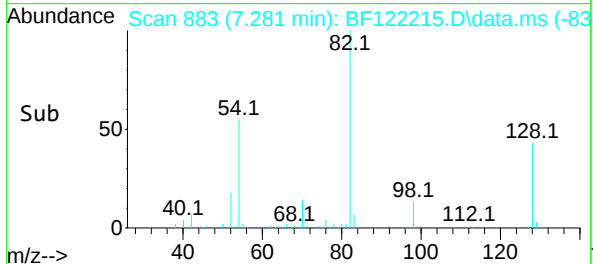
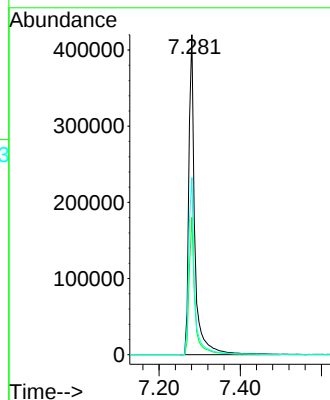
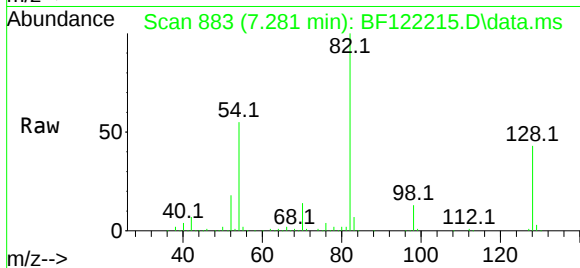
Delta R.T. -0.006 min

Lab File: BF122215.D

Acq: 31 Oct 2020 11:42

Tgt Ion: 82 Resp: 431855

Ion	Ratio	Lower	Upper
82	100		
128	43.0	35.0	52.4
54	55.4	43.9	65.9



#25

Isophorone

Concen: 36.07 ng

RT: 7.281 min Scan# 883

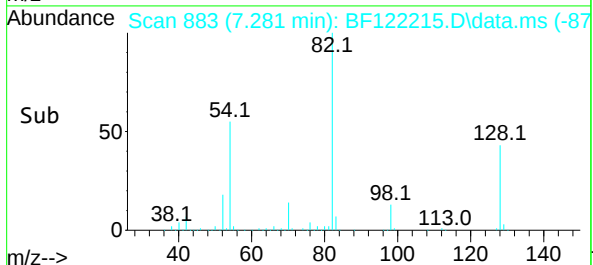
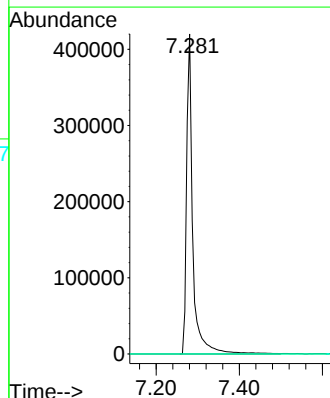
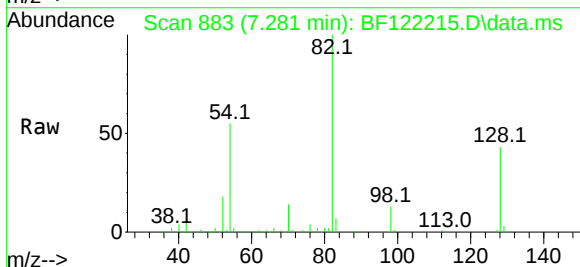
Delta R.T. -0.265 min

Lab File: BF122215.D

Acq: 31 Oct 2020 11:42

Tgt Ion: 82 Resp: 431853

Ion	Ratio	Lower	Upper
82	100		
95	0.0	5.4	8.0#
138	0.0	13.4	20.0#

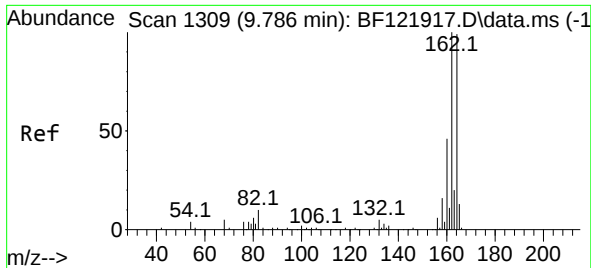


Instrument :

BNA_F

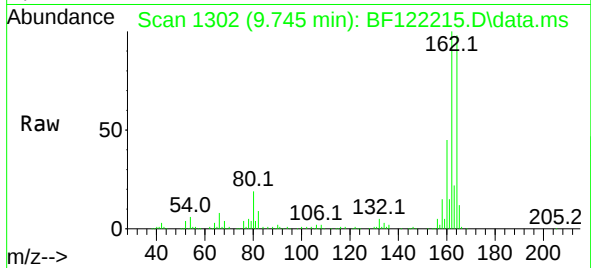
ClientSampleId :

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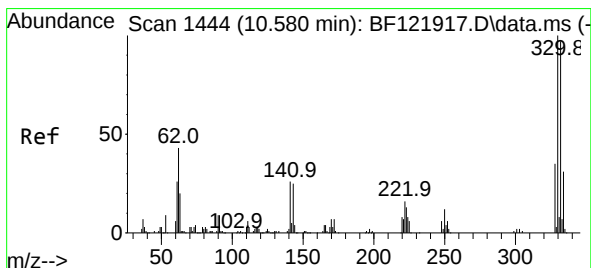
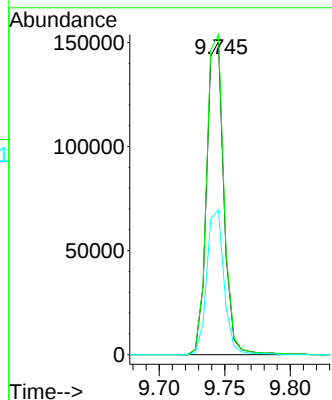
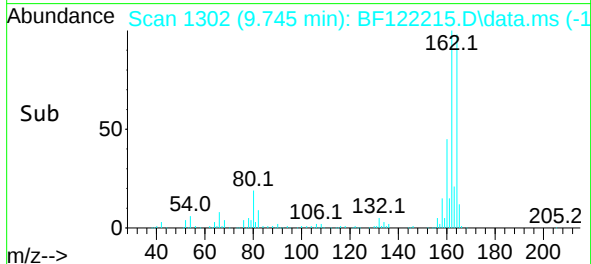


#39
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.745 min Scan# 1302
Delta R.T. -0.006 min
Lab File: BF122215.D
Acq: 31 Oct 2020 11:42

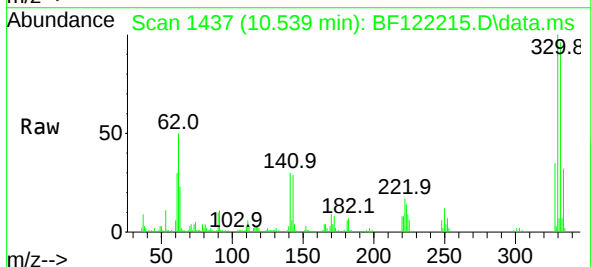
Instrument :
BNA_F
ClientSampleId :
S-1



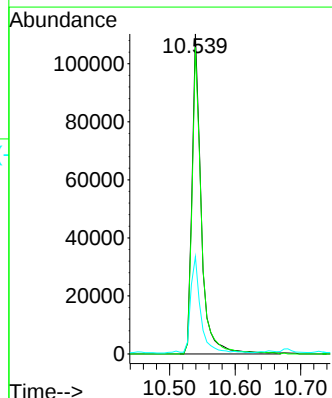
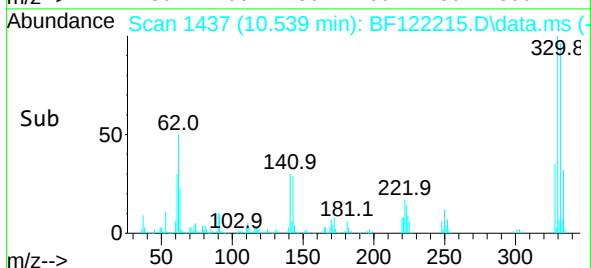
Tgt Ion:164 Resp: 137690
Ion Ratio Lower Upper
164 100
162 102.3 83.2 124.8
160 46.2 37.5 56.3

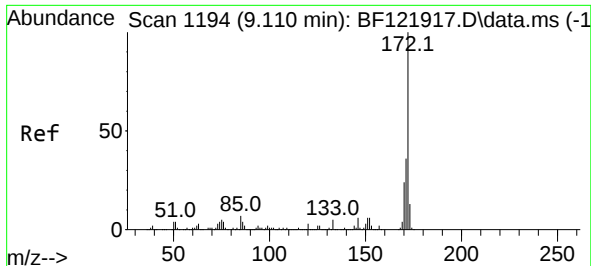


#42
2,4,6-Tribromophenol
Concen: 63.28 ng
RT: 10.539 min Scan# 1437
Delta R.T. -0.006 min
Lab File: BF122215.D
Acq: 31 Oct 2020 11:42



Tgt Ion:330 Resp: 107784
Ion Ratio Lower Upper
330 100
332 97.0 77.3 115.9
141 32.9 22.3 33.5

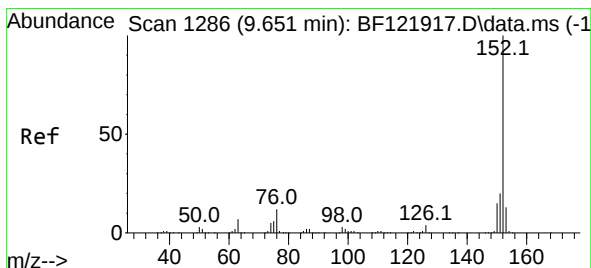
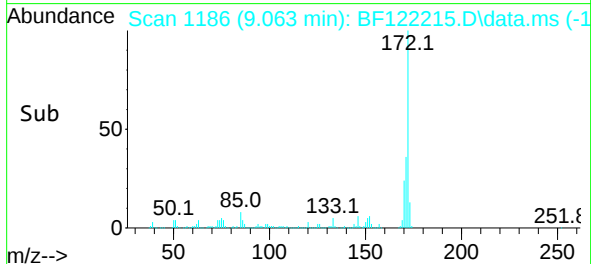
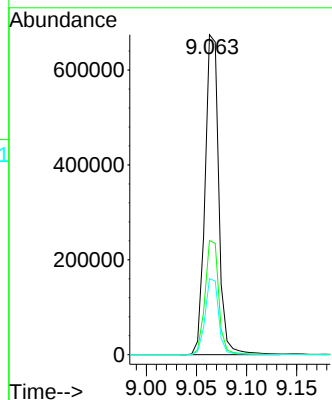
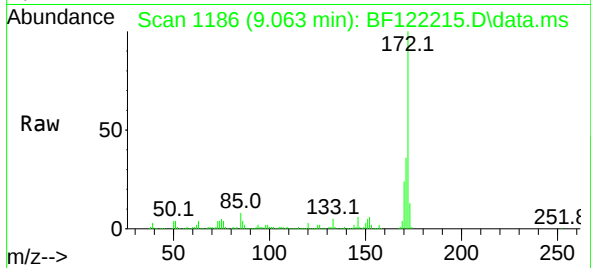




#45
2-Fluorobiphenyl
Concen: 69.02 ng
RT: 9.063 min Scan# 1186
Delta R.T. -0.012 min
Lab File: BF122215.D
Acq: 31 Oct 2020 11:42

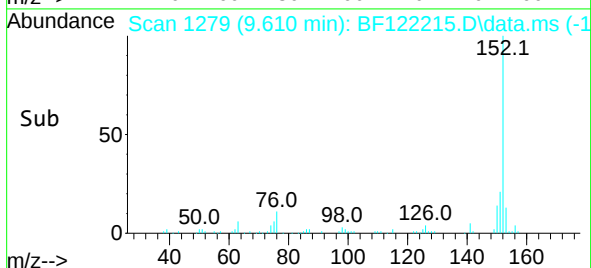
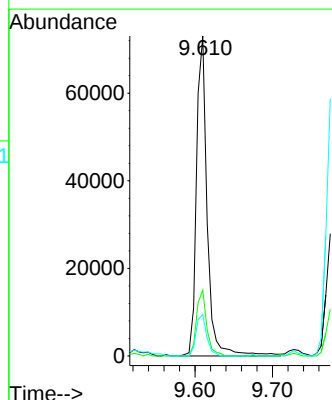
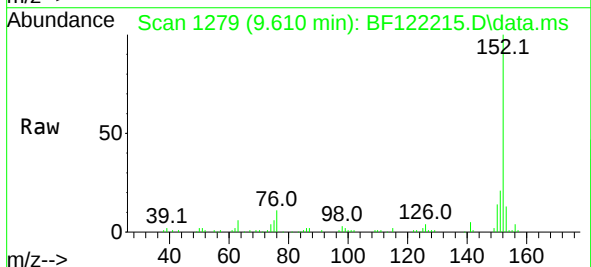
Instrument :
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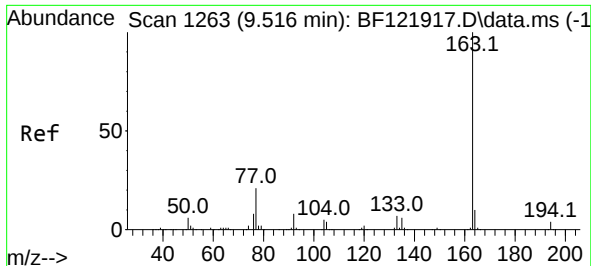
Tgt Ion:172 Resp: 645939
Ion Ratio Lower Upper
172 100
171 35.7 29.1 43.7
170 23.7 19.8 29.6



#49
Acenaphthylene
Concen: 5.24 ng
RT: 9.610 min Scan# 1279
Delta R.T. -0.006 min
Lab File: BF122215.D
Acq: 31 Oct 2020 11:42

Tgt Ion:152 Resp: 70044
Ion Ratio Lower Upper
152 100
151 20.6 16.4 24.6
153 12.9 10.6 15.8

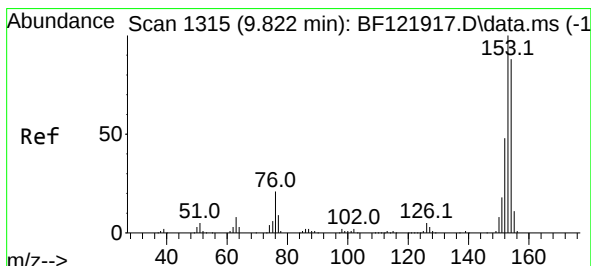
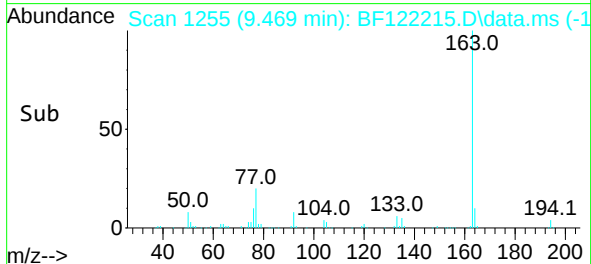
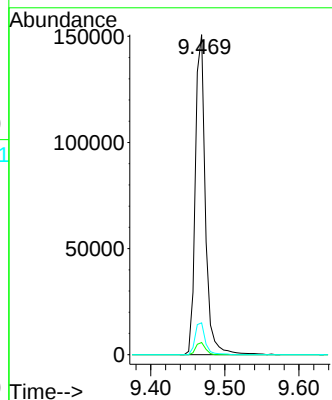
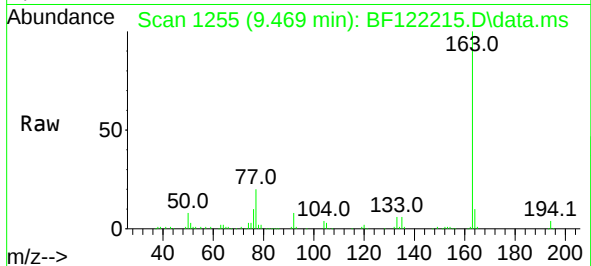




#50
Dimethylphthalate
Concen: 14.09 ng
RT: 9.469 min Scan# 1255
Delta R.T. -0.012 min
Lab File: BF122215.D
Acq: 31 Oct 2020 11:42

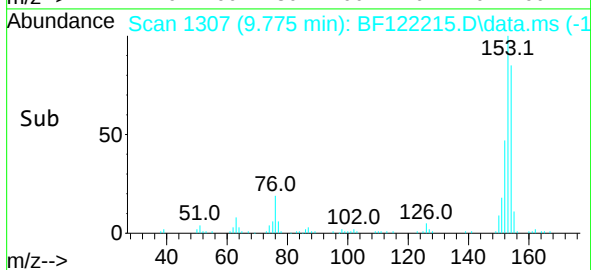
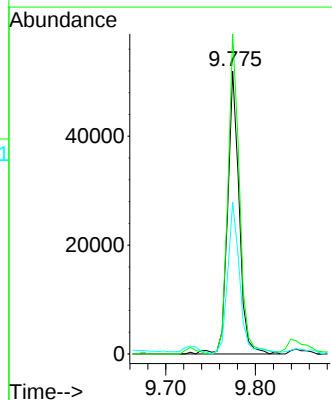
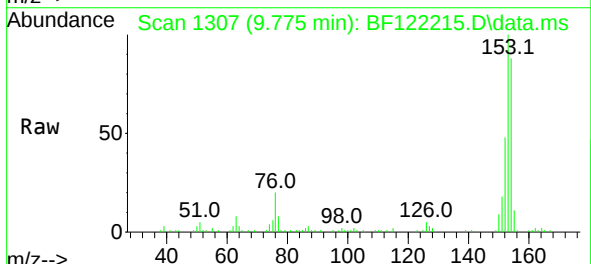
Instrument :
BNA_F
ClientSampleId :
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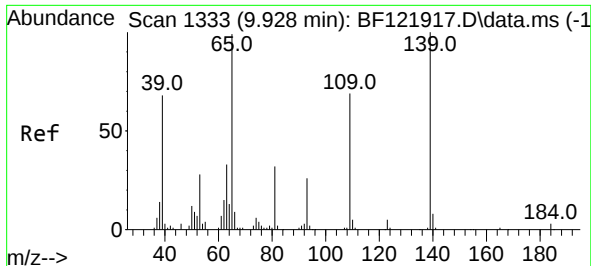
Tgt Ion:163 Resp: 141852
Ion Ratio Lower Upper
163 100
194 3.8 3.3 4.9
164 10.0 8.2 12.4



#52
Acenaphthene
Concen: 5.82 ng
RT: 9.775 min Scan# 1307
Delta R.T. -0.012 min
Lab File: BF122215.D
Acq: 31 Oct 2020 11:42

Tgt Ion:154 Resp: 46318
Ion Ratio Lower Upper
154 100
153 113.2 89.8 134.8
152 53.8 43.2 64.8

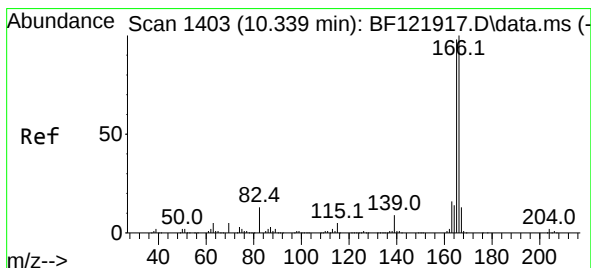
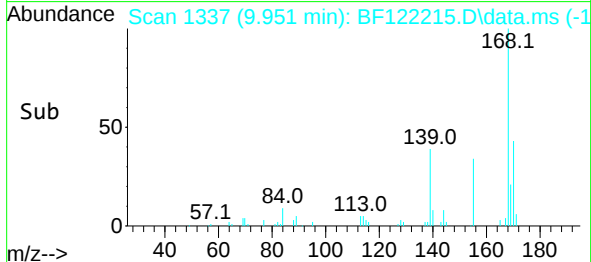
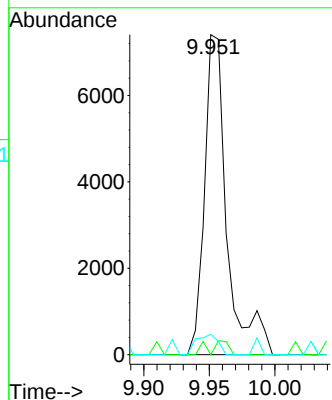
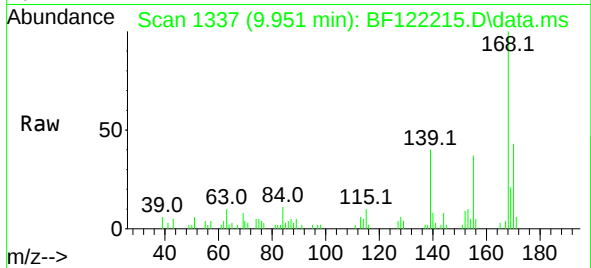




#56
4-Nitrophenol
Concen: 6.44 ng
RT: 9.951 min Scan# 1337
Delta R.T. 0.041 min
Lab File: BF122215.D
Acq: 31 Oct 2020 11:42

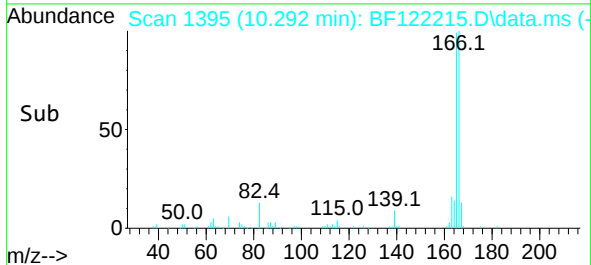
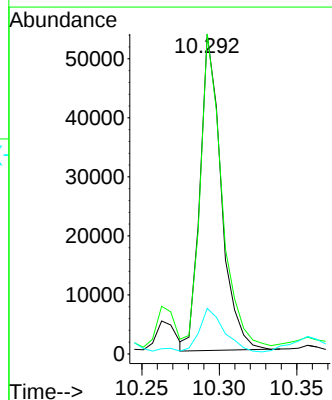
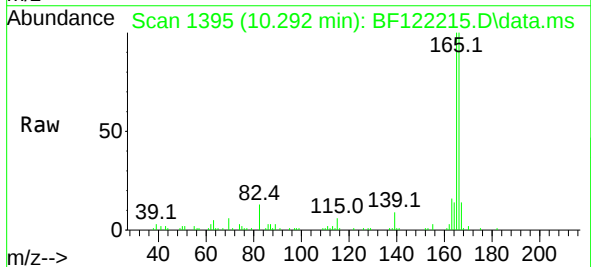
Instrument :
BNA_F
ClientSampled :
S-1

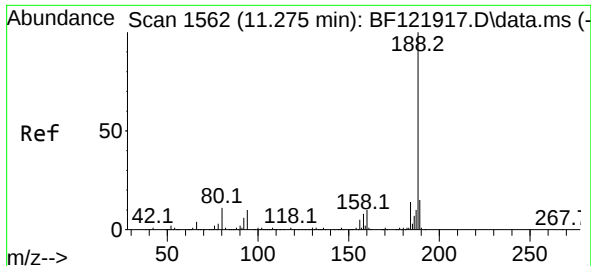
Tgt Ion:139 Resp: 8794
Ion Ratio Lower Upper
139 100
109 0.0 45.4 85.4#
65 6.3 68.4 108.4#



#58
Fluorene
Concen: 5.42 ng
RT: 10.292 min Scan# 1395
Delta R.T. -0.006 min
Lab File: BF122215.D
Acq: 31 Oct 2020 11:42

Tgt Ion:166 Resp: 50786
Ion Ratio Lower Upper
166 100
165 100.1 79.1 118.7
167 14.3 11.0 16.6

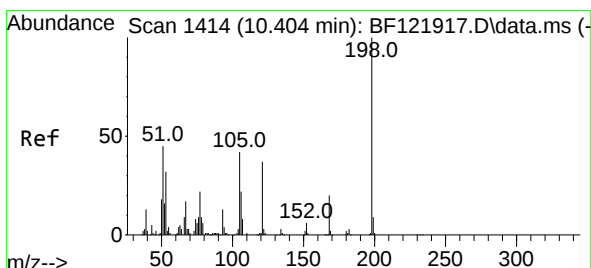
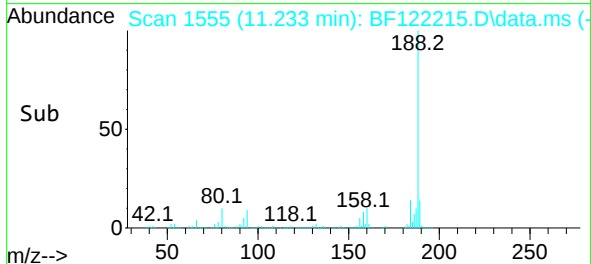
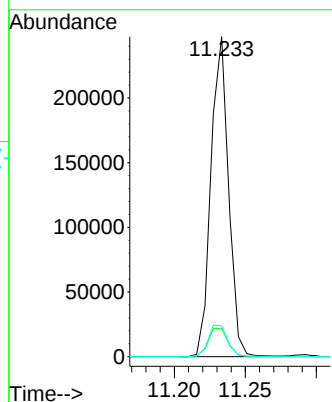
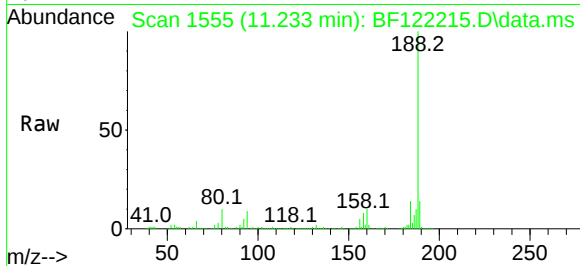




#64
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.233 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BF122215.D
Acq: 31 Oct 2020 11:42

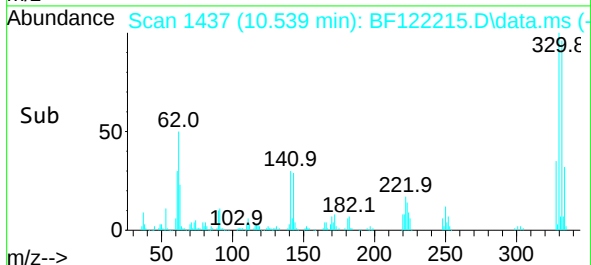
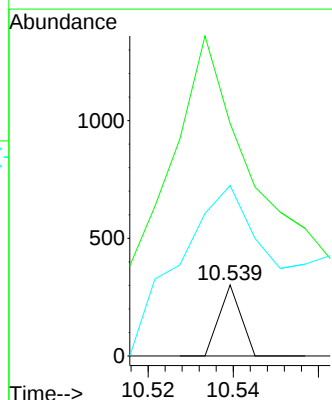
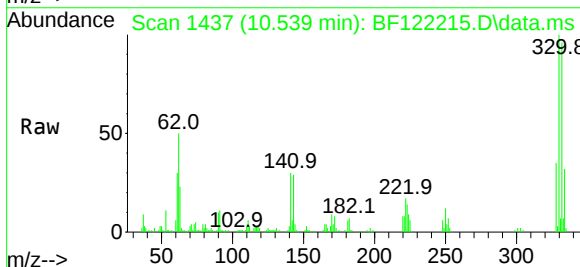
Instrument :
BNA_F
ClientSampleId :
S-1

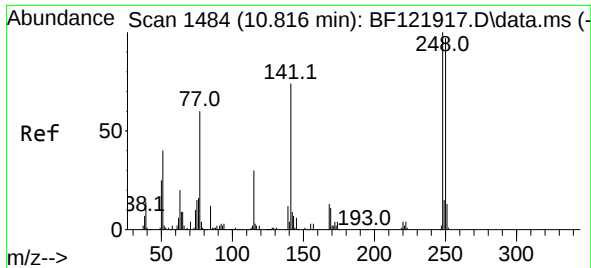
Tgt Ion:188 Resp: 212867
Ion Ratio Lower Upper
188 100
94 8.9 8.3 12.5
80 9.7 9.1 13.7



#65
4,6-Dinitro-2-methylphenol
Concen: 4.50 ng
RT: 10.539 min Scan# 1437
Delta R.T. 0.165 min
Lab File: BF122215.D
Acq: 31 Oct 2020 11:42

Tgt Ion:198 Resp: 107
Ion Ratio Lower Upper
198 100
51 327.2 29.6 69.6#
105 239.7 24.4 64.4#

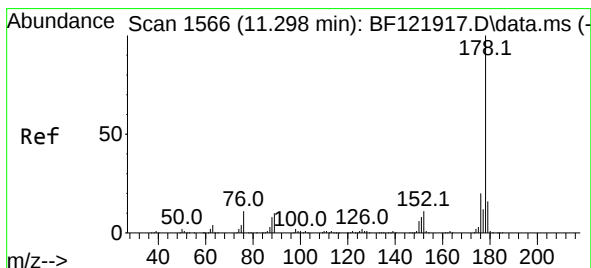
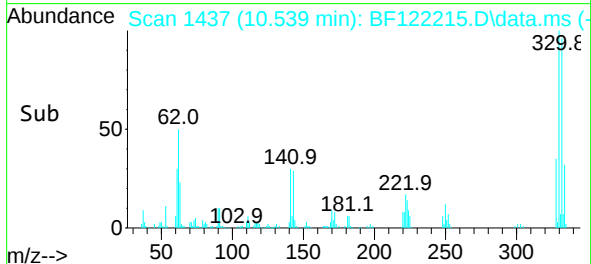
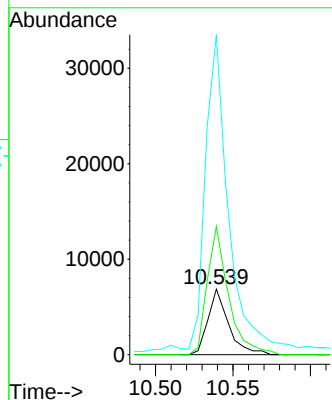
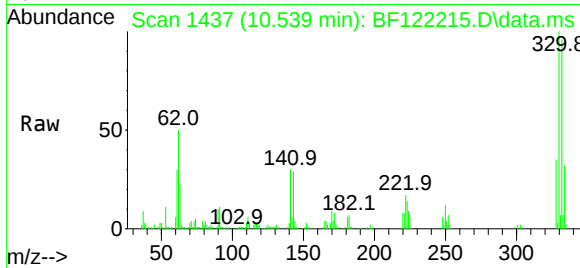




#67
4-Bromophenyl-phenylether
Concen: 2.58 ng
RT: 10.539 min Scan# 1437
Delta R.T. -0.235 min
Lab File: BF122215.D
Acq: 31 Oct 2020 11:42

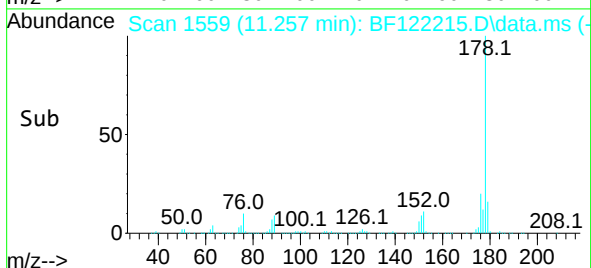
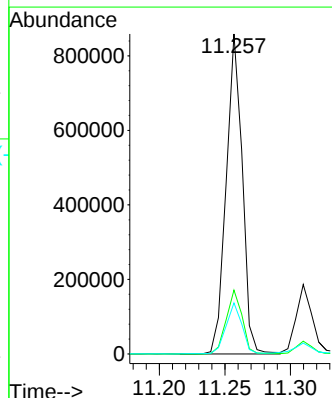
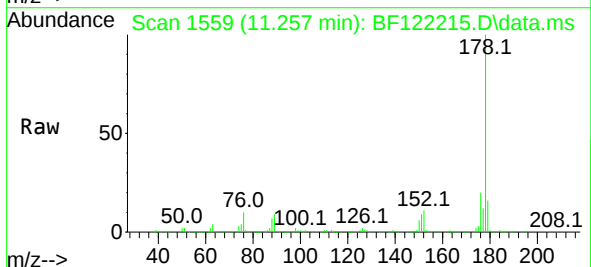
Instrument :
BNA_F
ClientSampled :
S-1

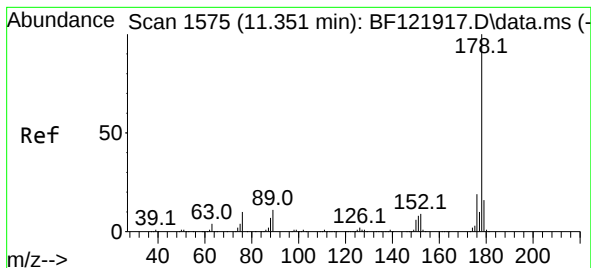
Tgt Ion:248 Resp: 6340
Ion Ratio Lower Upper
248 100
250 195.2 77.0 115.6#
141 487.4 53.7 80.5#



#71
Phenanthrene
Concen: 62.66 ng
RT: 11.257 min Scan# 1559
Delta R.T. -0.006 min
Lab File: BF122215.D
Acq: 31 Oct 2020 11:42

Tgt Ion:178 Resp: 731308
Ion Ratio Lower Upper
178 100
176 20.0 15.9 23.9
179 16.0 12.2 18.4





#72

Anthracene

Concen: 13.46 ng

RT: 11.310 min Scan# 1568

Delta R.T. -0.006 min

Lab File: BF122215.D

Acq: 31 Oct 2020 11:42

Tgt Ion:178 Resp: 162980

Ion Ratio Lower Upper

178 100

176 18.4 15.7 23.5

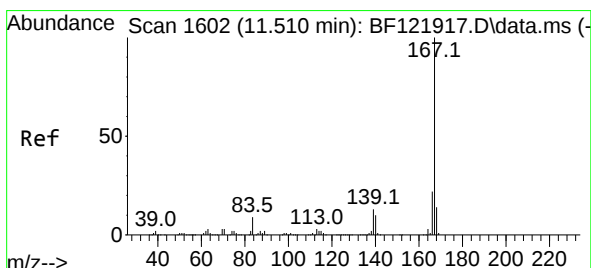
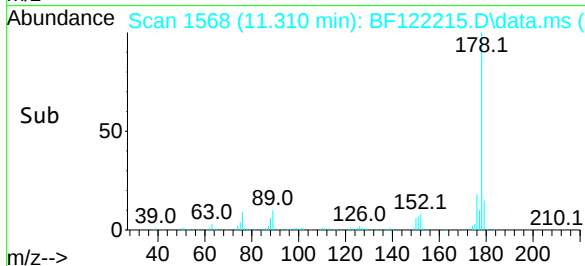
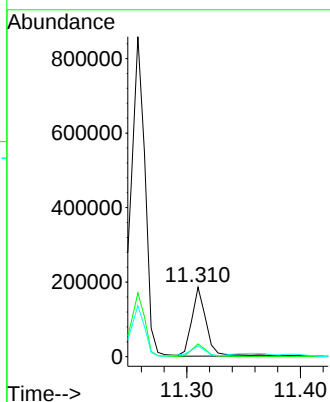
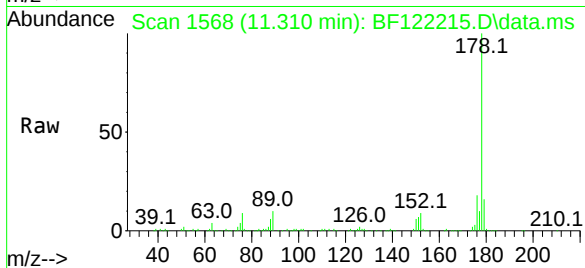
179 15.8 12.7 19.1

Instrument :

BNA_F

ClientSampleId :

S-1



#73

Carbazole

Concen: 8.32 ng

RT: 11.474 min Scan# 1596

Delta R.T. -0.000 min

Lab File: BF122215.D

Acq: 31 Oct 2020 11:42

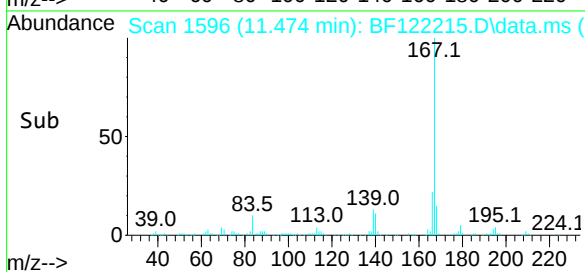
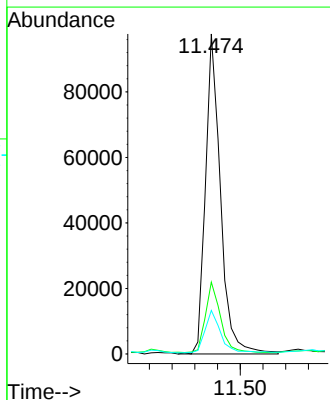
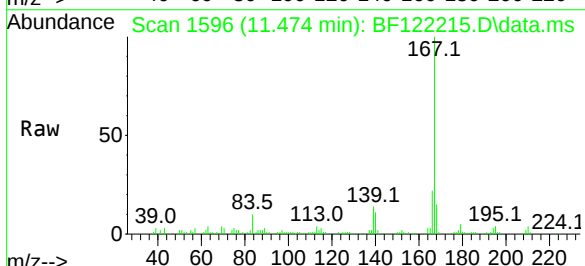
Tgt Ion:167 Resp: 89510

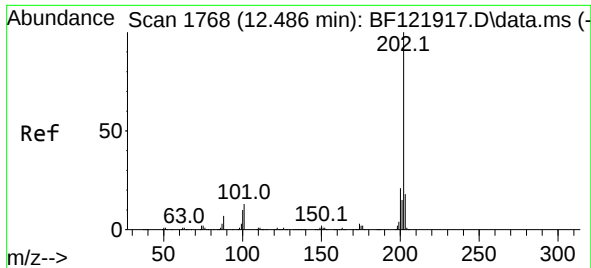
Ion Ratio Lower Upper

167 100

166 22.4 17.8 26.6

139 13.6 10.8 16.2

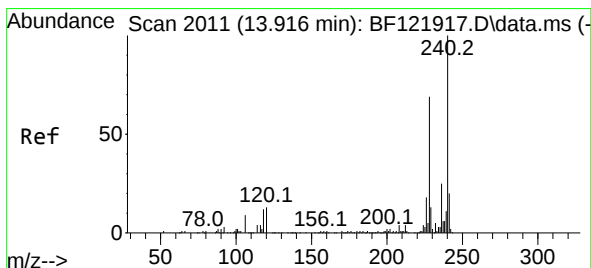
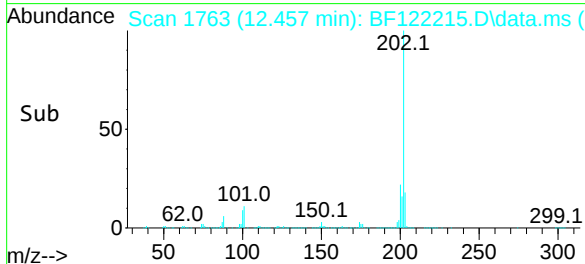
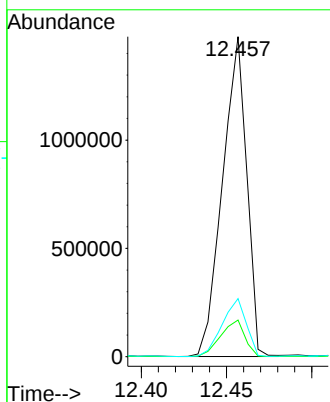
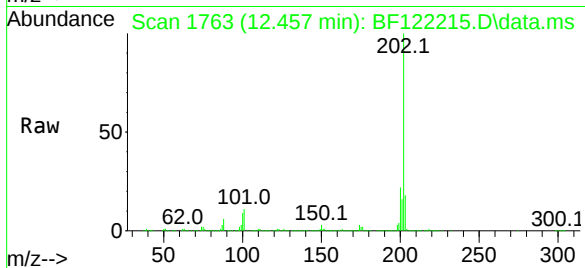




#75
Fluoranthene
Concen: 116.59 ng
RT: 12.457 min Scan# 1763
Delta R.T. 0.006 min
Lab File: BF122215.D
Acq: 31 Oct 2020 11:42

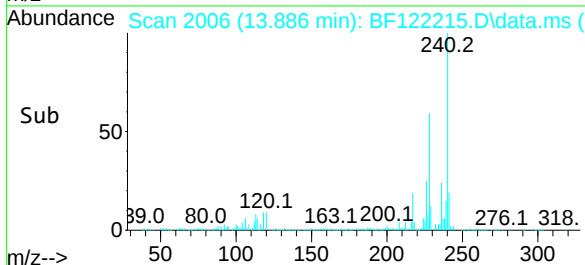
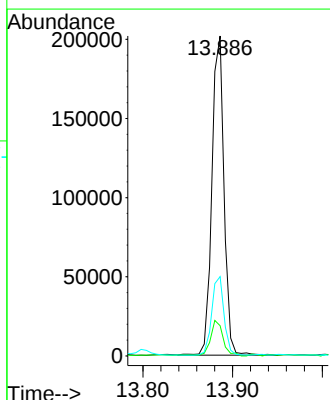
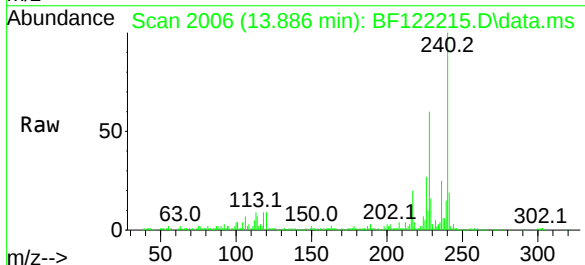
Instrument :
BNA_F
ClientSampled :
S-1

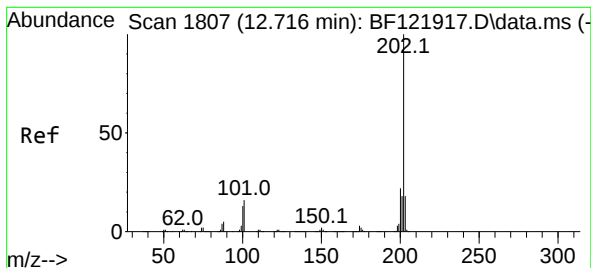
Tgt Ion:202 Resp: 1459136
Ion Ratio Lower Upper
202 100
101 11.5 0.0 33.4
203 18.2 0.0 37.9



#76
Chrysene-d12
Concen: 20.00 ng
RT: 13.886 min Scan# 2006
Delta R.T. 0.006 min
Lab File: BF122215.D
Acq: 31 Oct 2020 11:42

Tgt Ion:240 Resp: 188712
Ion Ratio Lower Upper
240 100
120 9.5 9.2 13.8
236 24.8 20.9 31.3





#78

Pyrene

Concen: 93.34 ng

RT: 12.686 min Scan# 1802

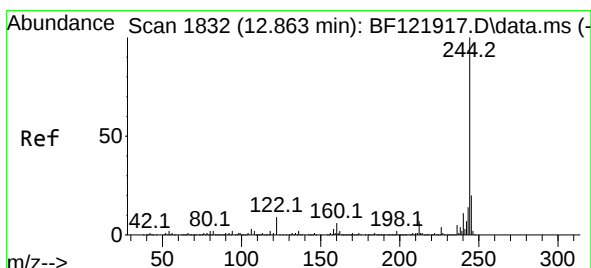
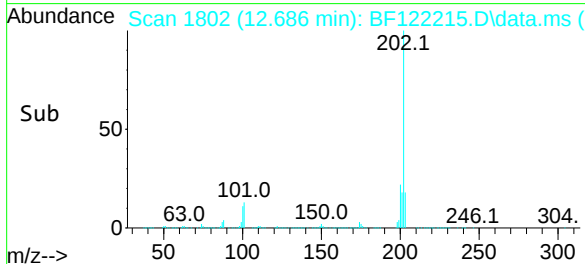
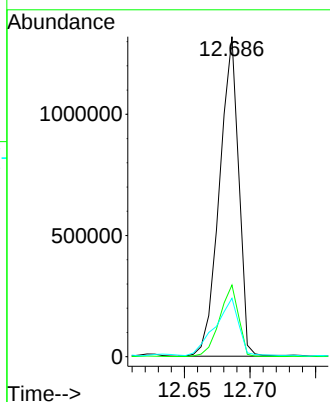
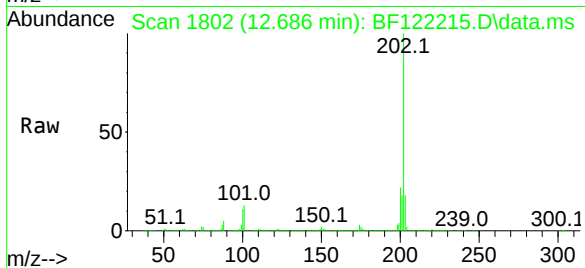
Delta R.T. 0.006 min

Lab File: BF122215.D

Acq: 31 Oct 2020 11:42

Tgt Ion:202 Resp: 1342353

Ion	Ratio	Lower	Upper
202	100		
200	22.4	17.4	26.2
203	18.2	14.6	21.8



#79

Terphenyl-d14

Concen: 48.25 ng

RT: 12.816 min Scan# 1824

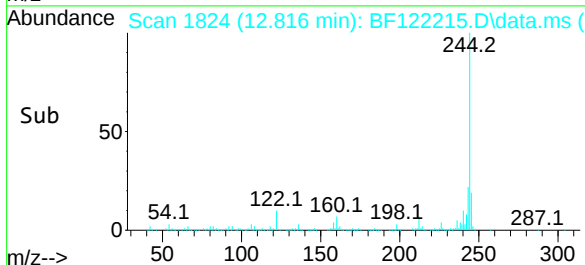
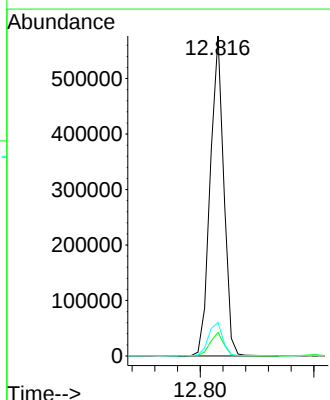
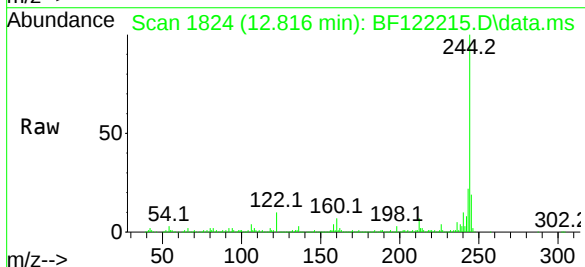
Delta R.T. -0.000 min

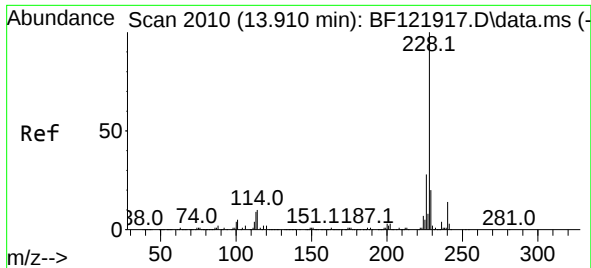
Lab File: BF122215.D

Acq: 31 Oct 2020 11:42

Tgt Ion:244 Resp: 477786

Ion	Ratio	Lower	Upper
244	100		
212	7.3	5.4	8.2
122	10.5	8.1	12.1

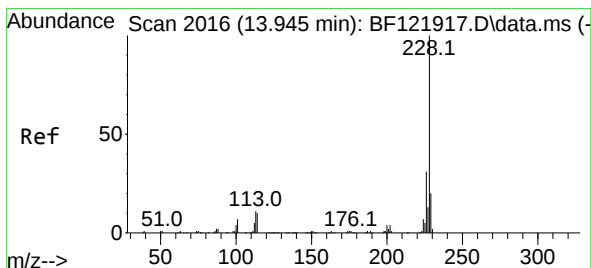
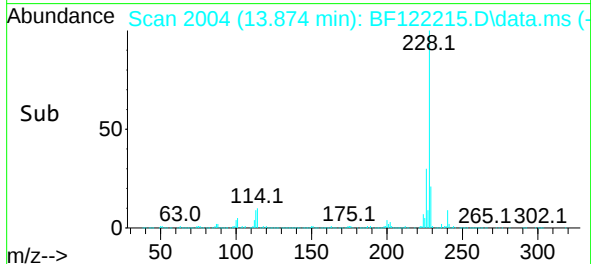
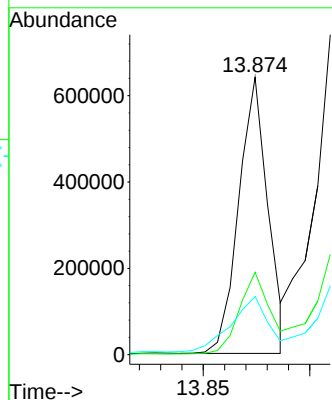
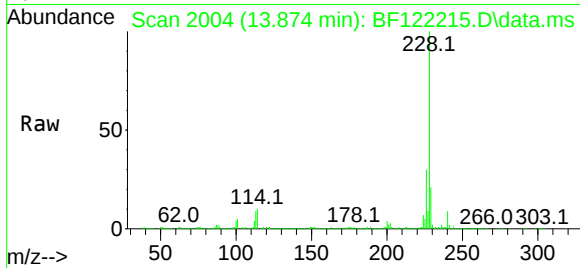




#81
Benzo(a)anthracene
Concen: 49.39 ng
RT: 13.874 min Scan# 2004
Delta R.T. 0.006 min
Lab File: BF122215.D
Acq: 31 Oct 2020 11:42

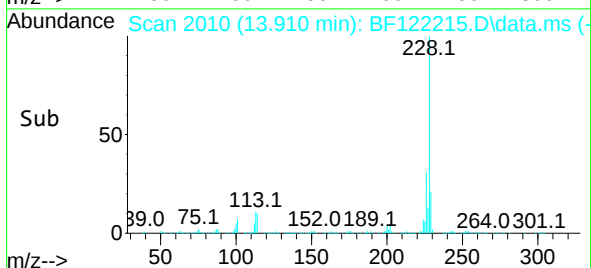
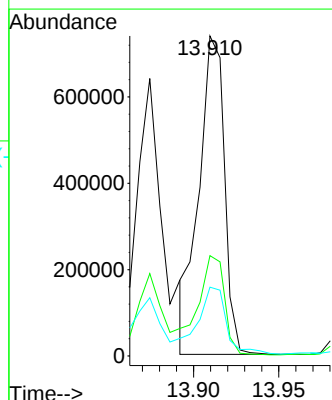
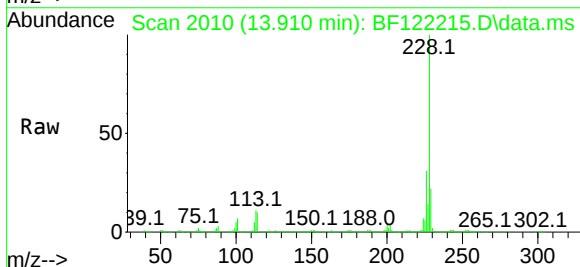
Instrument :
BNA_F
ClientSampled :
S-1

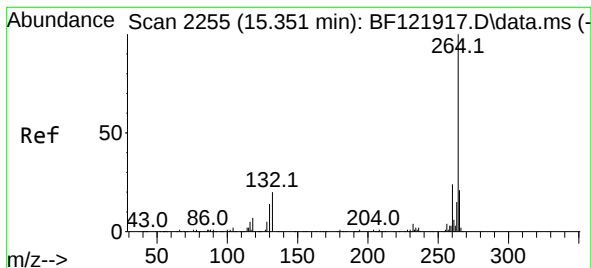
Tgt Ion:228 Resp: 610817
Ion Ratio Lower Upper
228 100
226 29.7 22.3 33.5
229 21.0 16.2 24.4



#83
Chrysene
Concen: 63.22 ng
RT: 13.910 min Scan# 2010
Delta R.T. 0.006 min
Lab File: BF122215.D
Acq: 31 Oct 2020 11:42

Tgt Ion:228 Resp: 767485
Ion Ratio Lower Upper
228 100
226 31.3 24.6 37.0
229 21.5 15.9 23.9

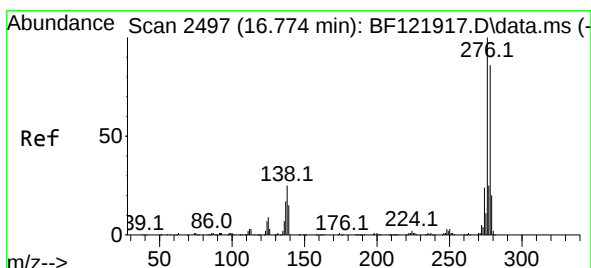
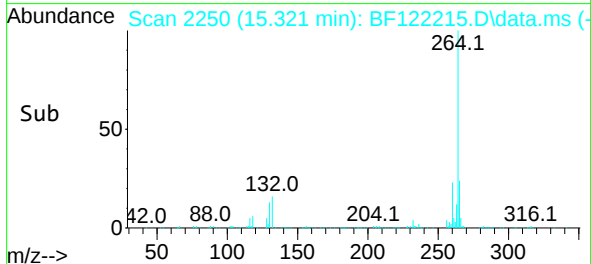
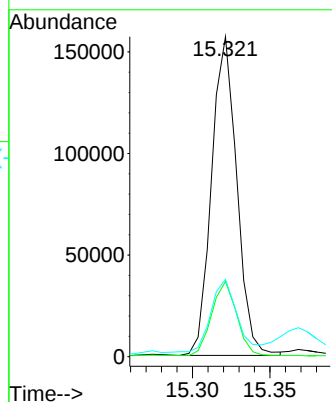
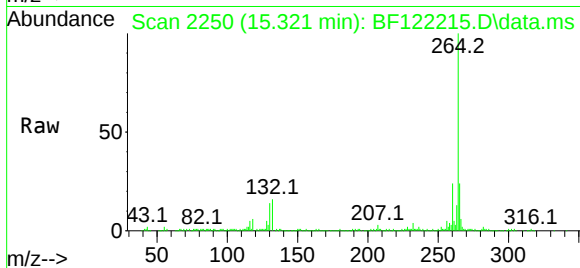




#86
Perylene-d12
Concen: 20.00 ng
RT: 15.321 min Scan# 2250
Delta R.T. 0.018 min
Lab File: BF122215.D
Acq: 31 Oct 2020 11:42

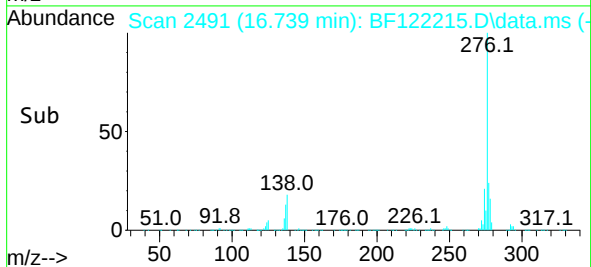
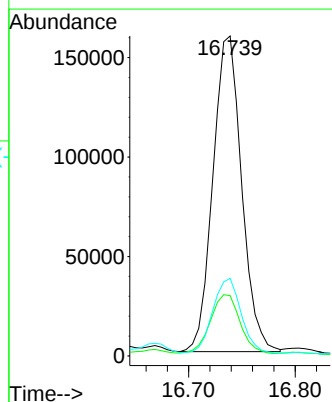
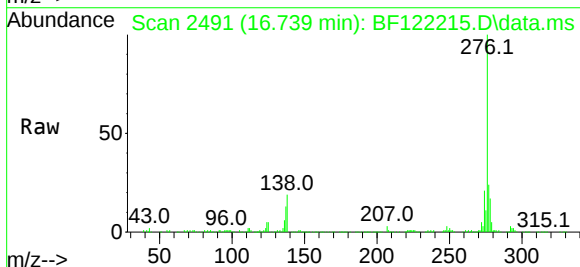
Instrument :
BNA_F
ClientSampleId :
S-1

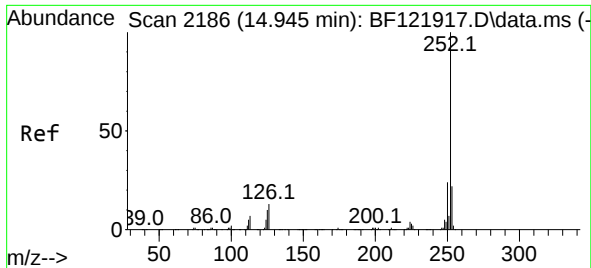
Tgt Ion:264 Resp: 177712
Ion Ratio Lower Upper
264 100
260 23.5 18.7 28.1
265 24.2 17.3 25.9



#87
Indeno(1,2,3-cd)pyrene
Concen: 25.74 ng
RT: 16.739 min Scan# 2491
Delta R.T. 0.023 min
Lab File: BF122215.D
Acq: 31 Oct 2020 11:42

Tgt Ion:276 Resp: 296949
Ion Ratio Lower Upper
276 100
138 20.1 19.9 29.9
277 23.4 20.4 30.6

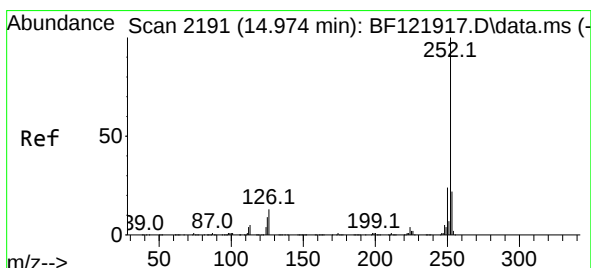
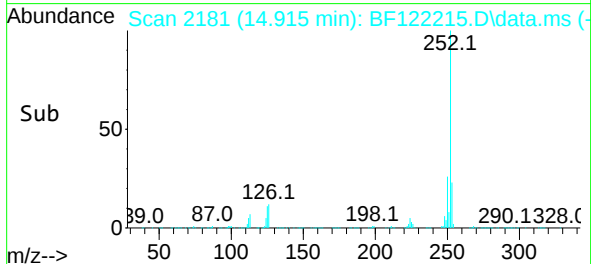
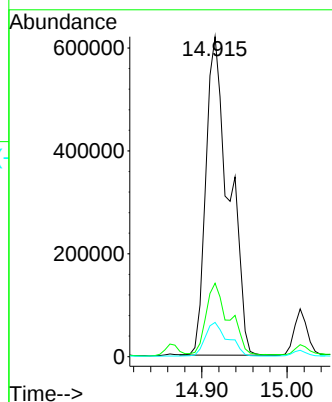
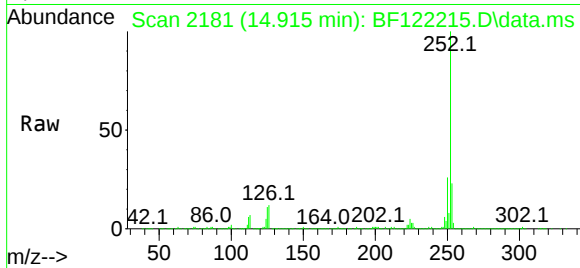




#88
Benzo(b)fluoranthene
Concen: 96.98 ng
RT: 14.915 min Scan# 2181
Delta R.T. 0.018 min
Lab File: BF122215.D
Acq: 31 Oct 2020 11:42

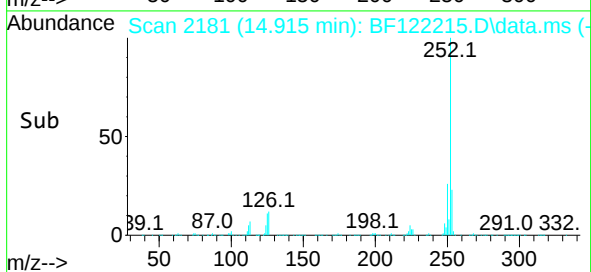
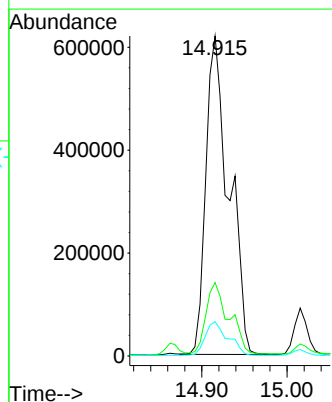
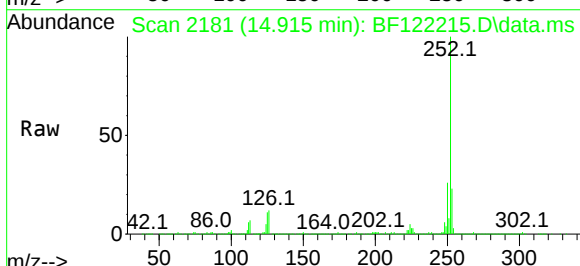
Instrument :
BNA_F
ClientSampleId :
S-1

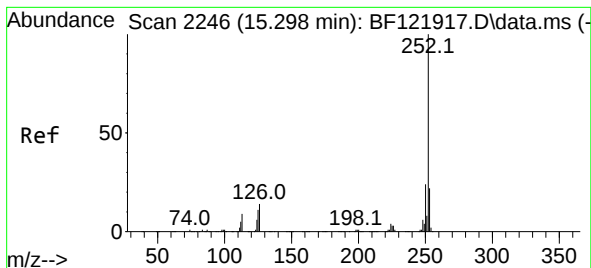
Tgt Ion:252 Resp: 1165000
Ion Ratio Lower Upper
252 100
253 23.0 18.2 27.2
125 10.7 8.0 12.0



#89
Benzo(k)fluoranthene
Concen: 102.09 ng
RT: 14.915 min Scan# 2181
Delta R.T. -0.012 min
Lab File: BF122215.D
Acq: 31 Oct 2020 11:42

Tgt Ion:252 Resp: 1165000
Ion Ratio Lower Upper
252 100
253 23.0 17.8 26.6
125 10.7 7.7 11.5





#90

Benzo(a)pyrene

Concen: 47.34 ng

RT: 15.262 min Scan# 2240

Delta R.T. 0.012 min

Lab File: BF122215.D

Acq: 31 Oct 2020 11:42

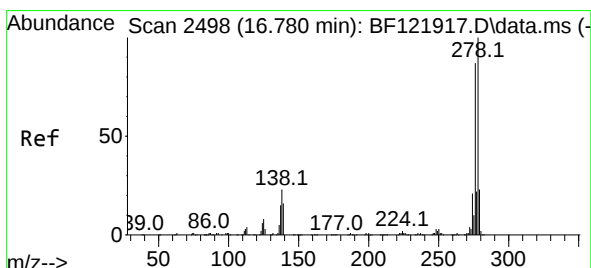
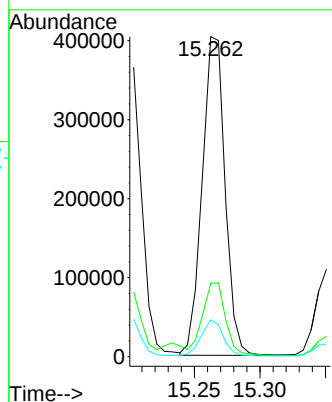
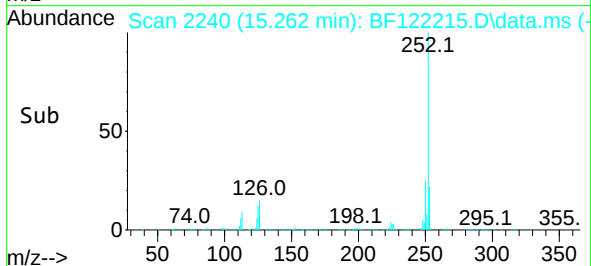
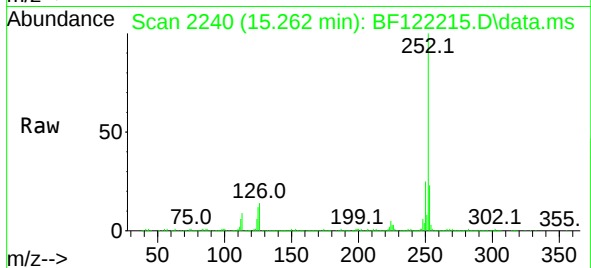
Tgt Ion:252 Resp: 491157

Ion Ratio Lower Upper

252 100

253 22.9 17.3 25.9

125 11.5 8.6 13.0



#91

Dibenzo(a,h)anthracene

Concen: 4.59 ng

RT: 16.898 min Scan# 2518

Delta R.T. 0.182 min

Lab File: BF122215.D

Acq: 31 Oct 2020 11:42

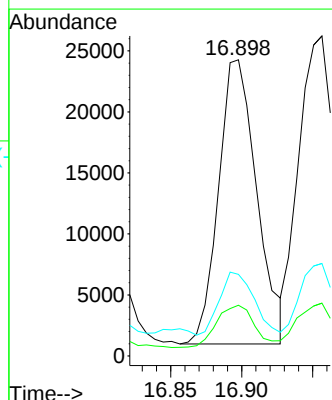
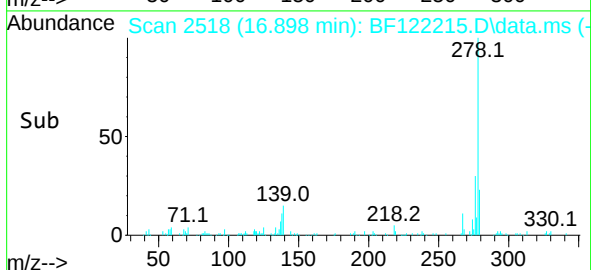
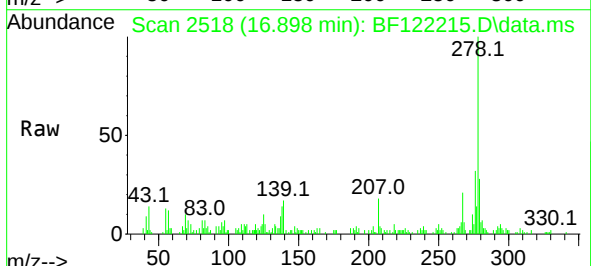
Tgt Ion:278 Resp: 43640

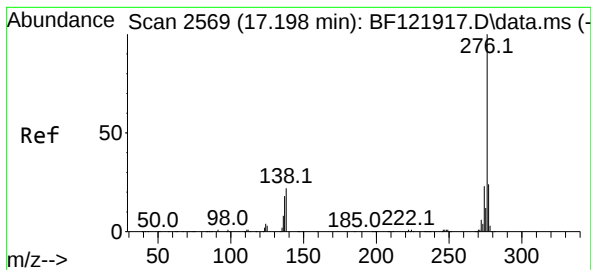
Ion Ratio Lower Upper

278 100

139 17.1 13.0 19.4

279 27.6 19.0 28.4





#92

Benzo(g,h,i)perylene

Concen: 30.22 ng

RT: 17.162 min Scan# 2563

Delta R.T. 0.029 min

Lab File: BF122215.D

Acq: 31 Oct 2020 11:42

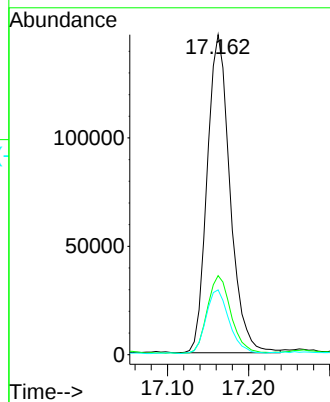
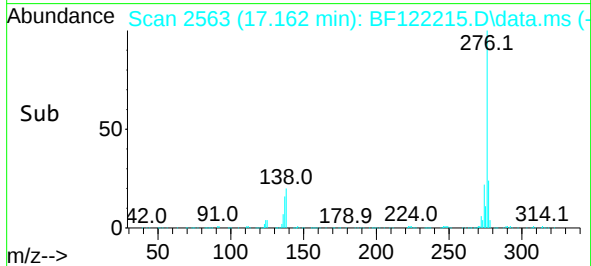
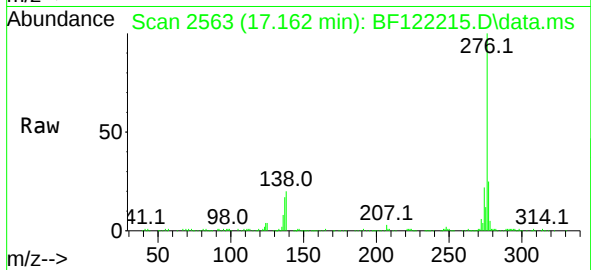
Tgt Ion: 276 Resp: 287295

Ion Ratio Lower Upper

276 100

277 24.7 19.4 29.2

138 20.3 17.8 26.6



Instrument :

BNA_F

ClientSampleId :

S-1