

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021120\
 Data File : BF118887.D
 Acq On : 11 Feb 2020 16:42
 Operator : CG/JU
 Sample : L1481-01
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 72-11931

Quant Time: Feb 12 06:49:20 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF020320.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Feb 03 16:26:03 2020
 Response via : Initial Calibration

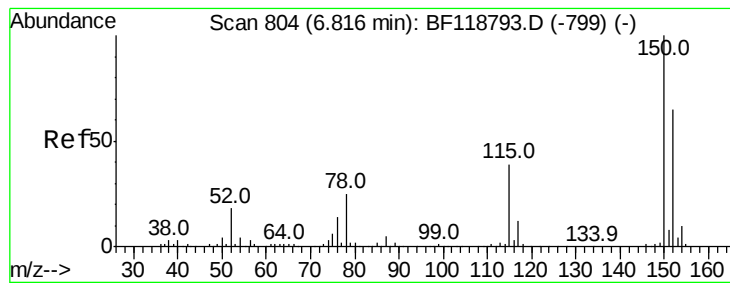
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	271915	20.00	ng	-0.01
21) Naphthalene-d8	8.09	136	757919	20.00	ng	-0.02
39) Acenaphthene-d10	9.84	164	427708	20.00	ng	-0.02
64) Phenanthrene-d10	11.33	188	822752	20.00	ng	-0.01
76) Chrysene-d12	13.97	240	695075	20.00	ng	-0.01
87) Perylene-d12	15.42	264	717694	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.43	112	1500374	104.45	ng	0.00
7) Phenol-d6	6.44	99	1849258	103.71	ng	-0.01
23) Nitrobenzene-d5	7.36	82	1191108	93.67	ng	-0.02
42) 2,4,6-Tribromophenol	10.63	330	518521	101.32	ng	-0.02
45) 2-Fluorobiphenyl	9.16	172	1703948	71.22	ng	-0.02
79) Terphenyl-d14	12.92	244	2219137	65.58	ng	-0.01

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.35	77	788	Below Cal		# 68
19) n-Nitroso-di-n-propylamine	7.36	70	162642	14.907	ng	# 77
25) Isophorone	7.36	82	1191285	52.129	ng	# 63
50) Dimethylphthalate	9.55	163	86865	2.983	ng	99
51) 2,6-Dinitrotoluene	9.84	165	56871	8.535	ng	# 31
57) 2,4-Dinitrotoluene	9.84	165	56871	6.449	ng	# 34
67) 4-Bromophenyl-phenylether	10.63	248	34775	3.573	ng	# 1
70) Pentachlorophenol	11.13	266	92325	15.663	ng	98
71) Phenanthrene	11.35	178	199402	4.926	ng	97
75) Fluoranthene	12.54	202	574781	13.005	ng	98
78) Pyrene	12.77	202	532876	11.175	ng	96
81) Benzo(a)anthracene	13.96	228	249750	6.038	ng	97
83) Chrysene	13.99	228	267981	6.455	ng	97
84) Bis(2-ethylhexyl)phthalate	13.94	149	74929	2.714	ng	99
86) Indeno(1,2,3-cd)pyrene	16.84	276	259677	6.226	ng	94
88) Benzo(b)fluoranthene	14.99	252	524009	11.766	ng	97
89) Benzo(k)fluoranthene	14.99	252	524009	13.512	ng	# 96
90) Benzo(a)pyrene	15.35	252	261718	6.867	ng	99
92) Benzo(a,h,i)perylene	17.28	276	265914	8.172	ng	98

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

```
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Acq On    : 11 Feb 2020  16:42  
Operator  : CG/JU  
Sample    : L1481-01  
Misc      :  
ALS Vial  : 4      Sample Multiplier: 1
```

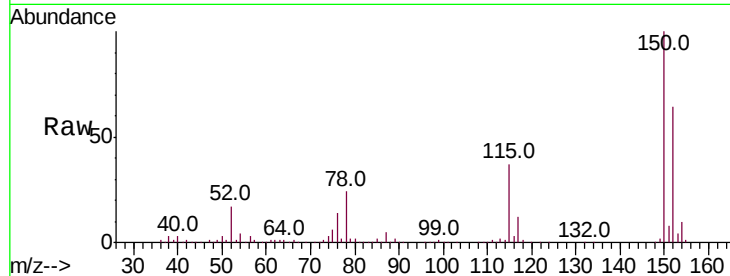


#1

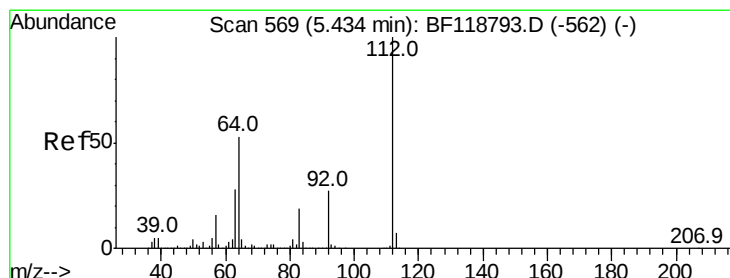
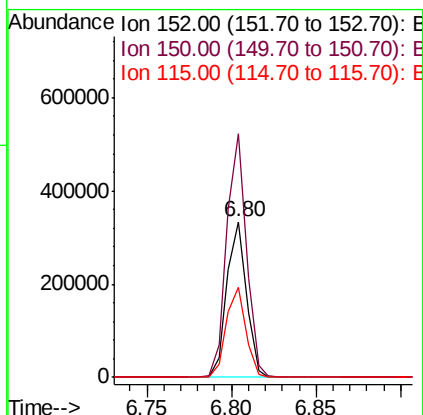
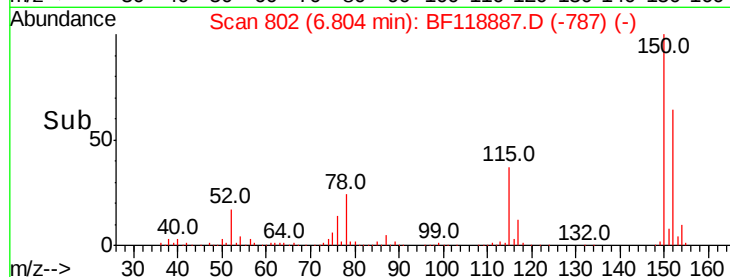
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.80 min Scan# 802
Delta R.T. -0.01 min
Lab File: BF118887.D
Acq: 11 Feb 2020 16:42

Instrument :
BNA_F
ClientSampleId :
72-11931

Tot Ion:152 Resp: 271915
Ion Ratio Lower Upper
152 100
150 156.2 123.6 185.4
115 57.7 48.2 72.2



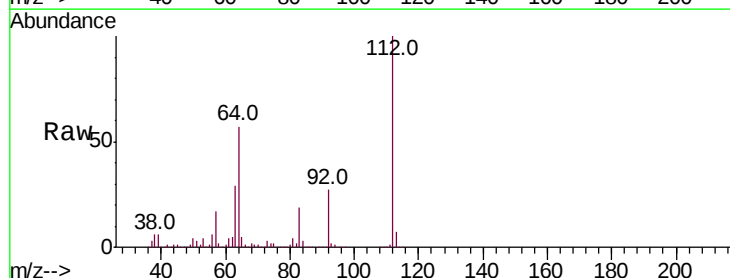
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



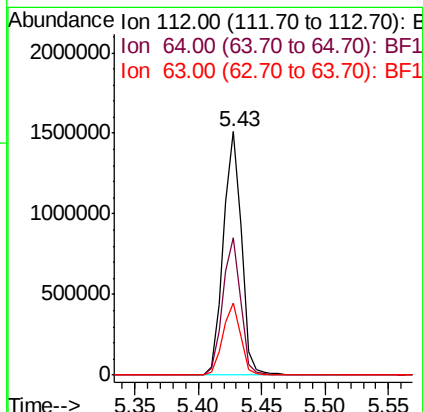
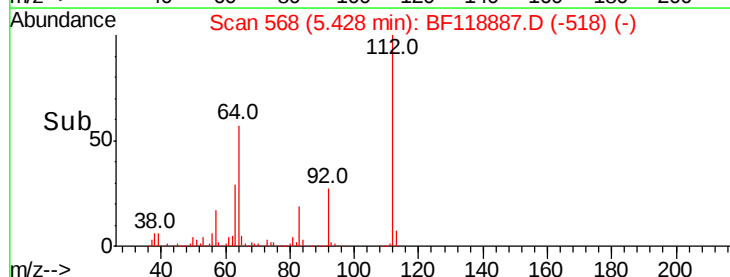
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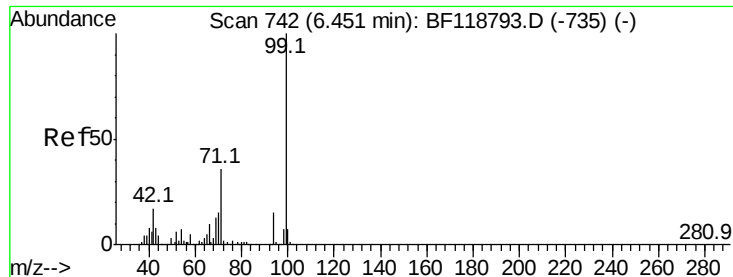
2-Fluorophenol
Concen: 104.448 ng
RT: 5.43 min Scan# 568
Delta R.T. -0.01 min
Lab File: BF118887.D
Acq: 11 Feb 2020 16:42

Tgt Ion:112 Resp: 1500374
Ion Ratio Lower Upper
112 100
64 56.6 42.6 63.8
63 29.4 22.2 33.4



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: 103.706 ng

RT: 6.44 min Scan# 740

Delta R.T. -0.01 min

Lab File: BF118887.D

Acq: 11 Feb 2020 16:42

Instrument :

BNA_F

ClientSampleId :

72-11931

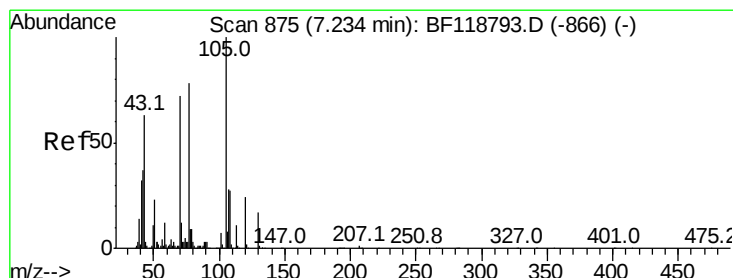
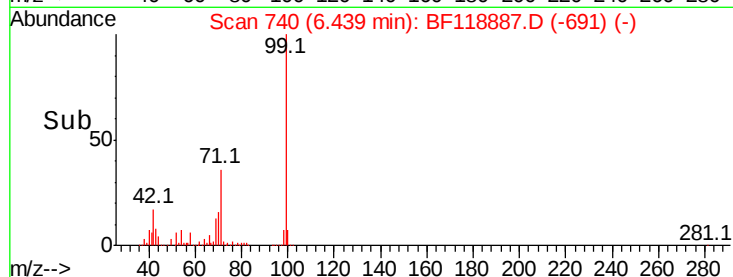
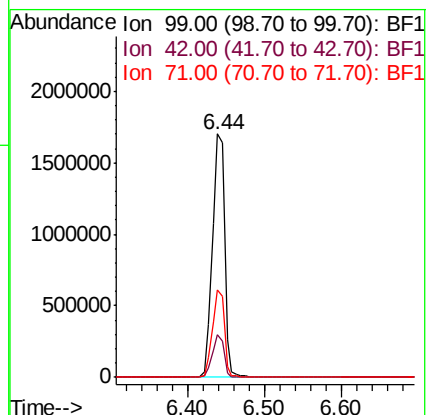
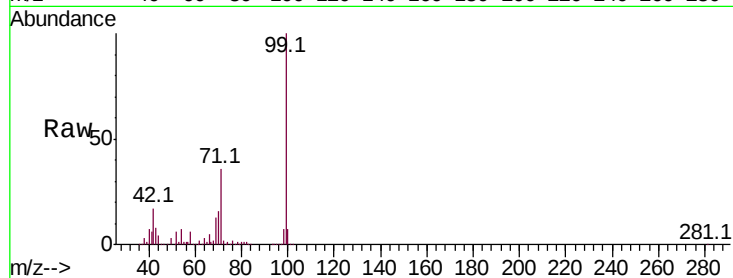
Tot Ion: 99 Resp: 1849258

Ion Ratio Lower Upper

99 100

42 17.4 13.4 20.0

71 35.9 29.0 43.6



#19

n-Nitroso-di-n-propylamine

Concen: 14.907 ng

RT: 7.36 min Scan# 897

Delta R.T. 0.13 min

Lab File: BF118887.D

Acq: 11 Feb 2020 16:42

Tgt Ion: 70 Resp: 162642

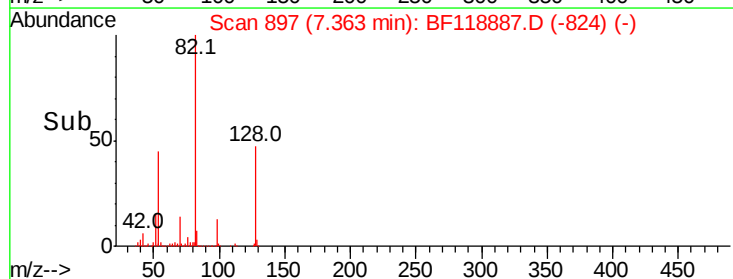
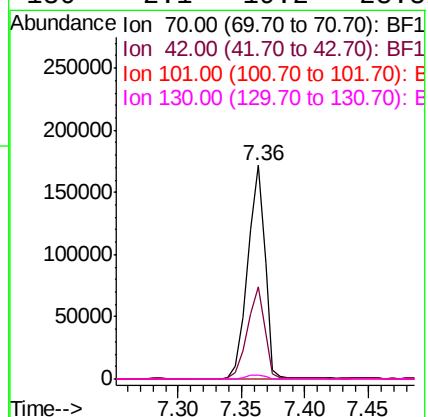
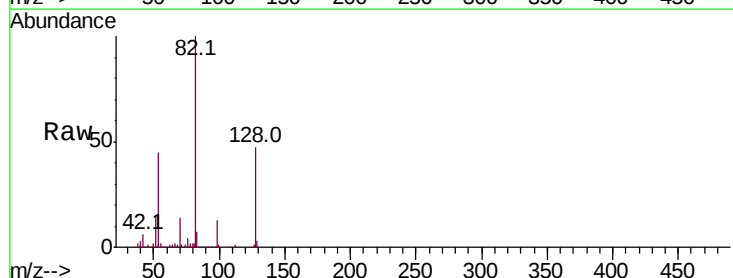
Ion Ratio Lower Upper

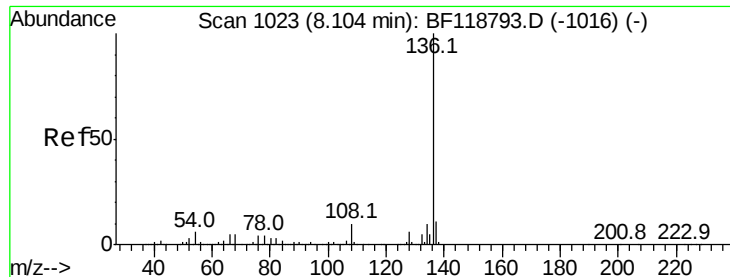
70 100

42 42.9 41.5 62.3

101 0.0 8.3 12.5#

130 2.1 19.2 28.8#

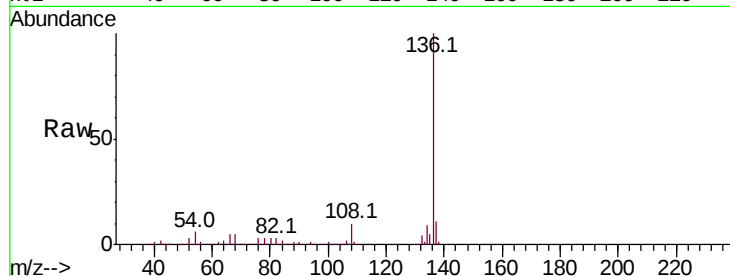




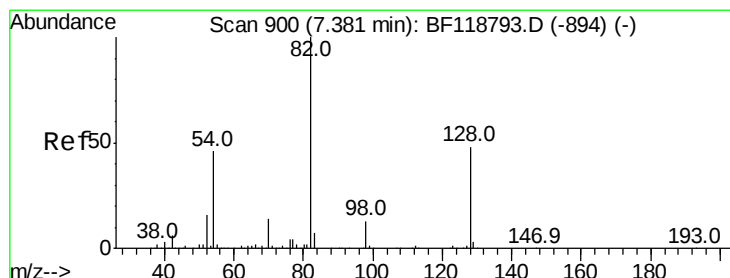
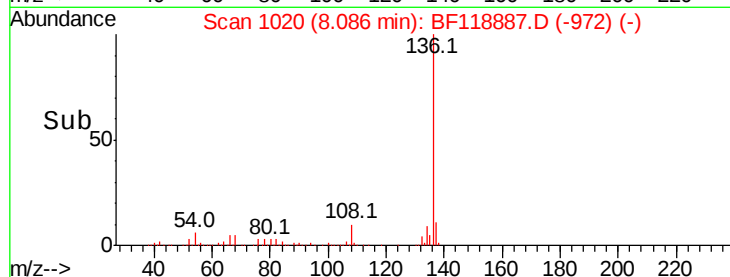
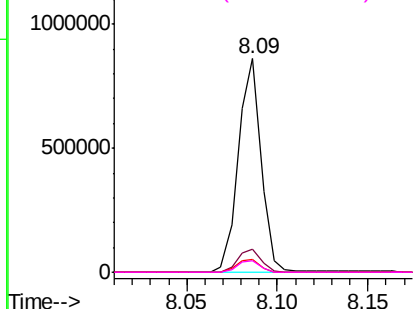
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.09 min Scan# 1020
Delta R.T. -0.02 min
Lab File: BF118887.D
Acq: 11 Feb 2020 16:42

Instrument :
BNA_F
ClientSampleId :
72-11931

Tot Ion:136	Resp:	757919
Ion Ratio	Lower	Upper
136 100		
137 10.9	8.7	13.1
54 6.0	5.0	7.6
68 5.3	4.2	6.4

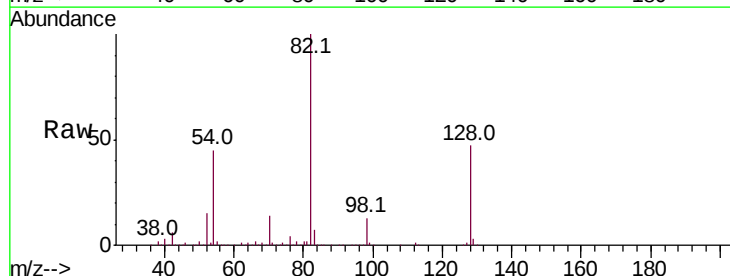


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

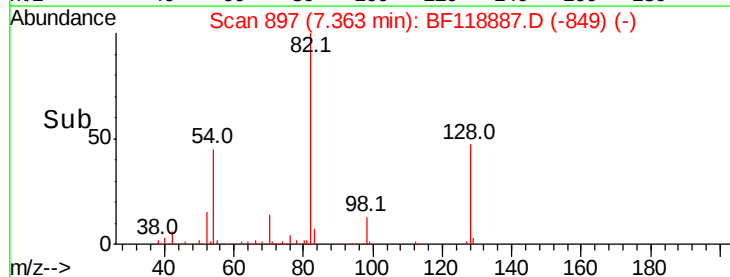
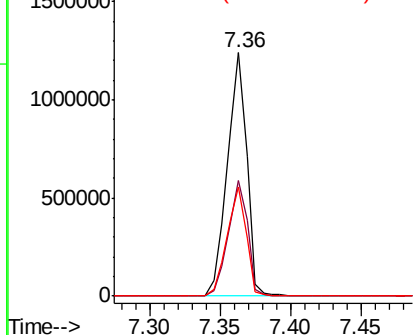


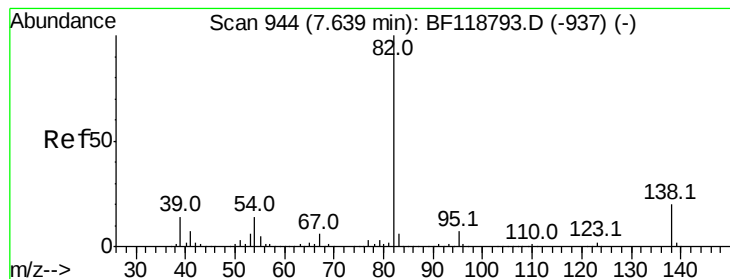
#23
Nitrobenzene-d5
Concen: 93.672 ng
RT: 7.36 min Scan# 897
Delta R.T. -0.02 min
Lab File: BF118887.D
Acq: 11 Feb 2020 16:42

Tgt Ion: 82	Resp: 1191108
Ion Ratio	Lower Upper
82 100	
128 47.4	38.5 57.7
54 45.0	36.7 55.1



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: 52.129 ng

RT: 7.36 min Scan# 897

Delta R.T. -0.28 min

Lab File: BF118887.D

Acq: 11 Feb 2020 16:42

Instrument :

BNA_F

ClientSampleId :

72-11931

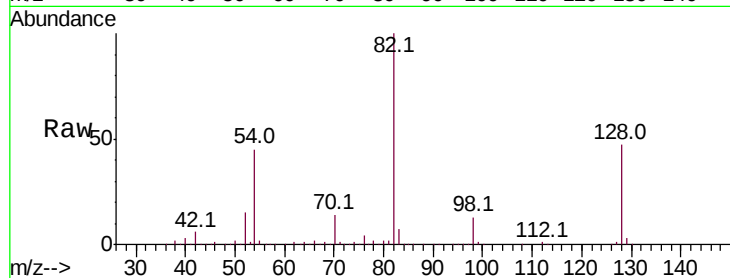
Tot Ion: 82 Resp: 1191285

Ion Ratio Lower Upper

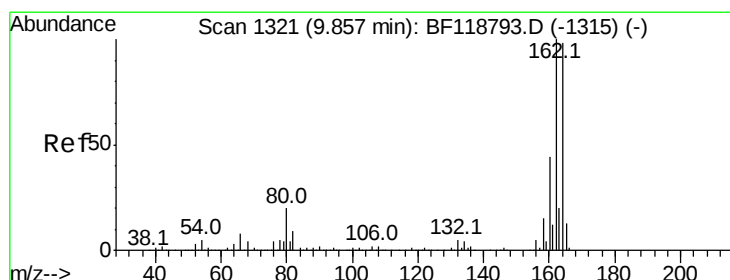
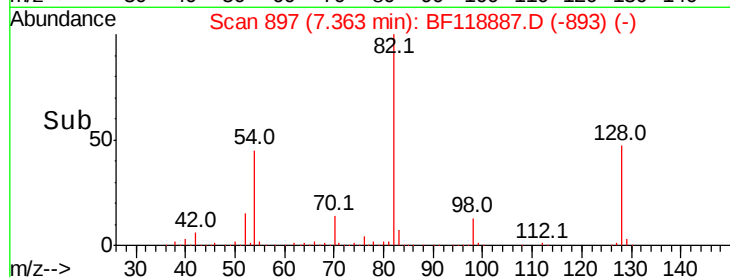
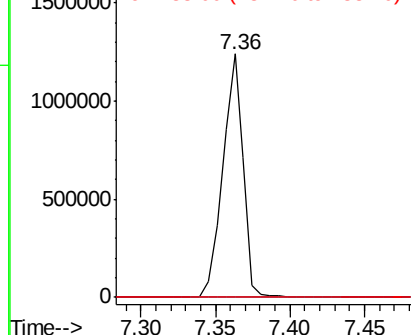
82 100

95 0.0 6.0 9.0#

138 0.0 15.7 23.5#



Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 95.00 (94.70 to 95.70): BF1
Ion 138.00 (137.70 to 138.70): E



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.84 min Scan# 1318

Delta R.T. -0.02 min

Lab File: BF118887.D

Acq: 11 Feb 2020 16:42

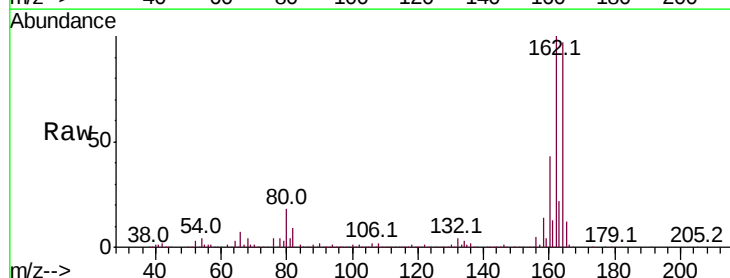
Tgt Ion:164 Resp: 427708

Ion Ratio Lower Upper

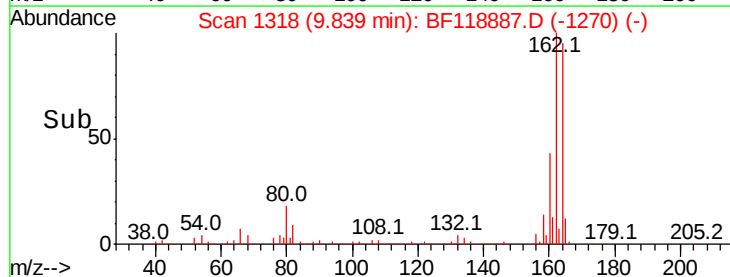
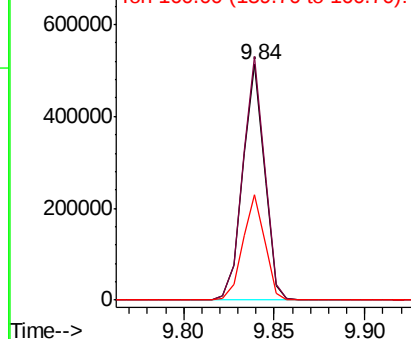
164 100

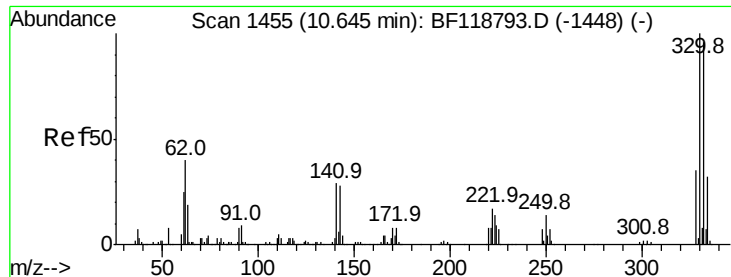
162 103.4 81.4 122.2

160 44.6 35.6 53.4



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

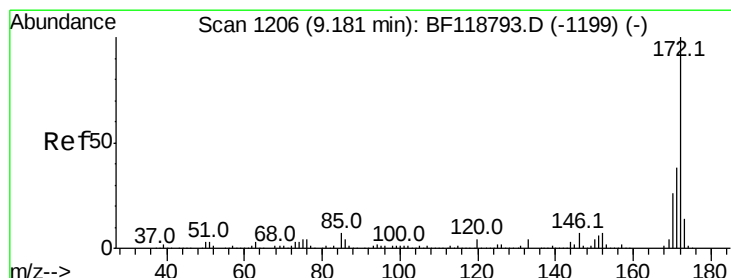
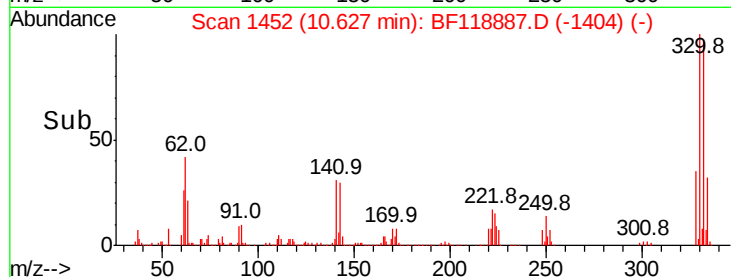
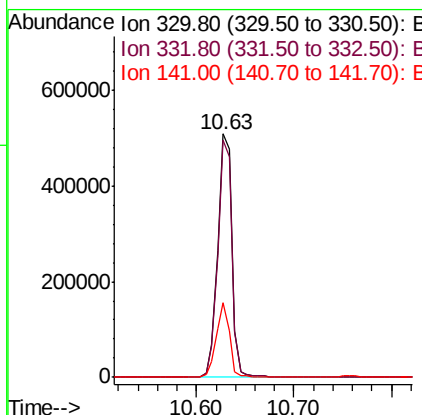
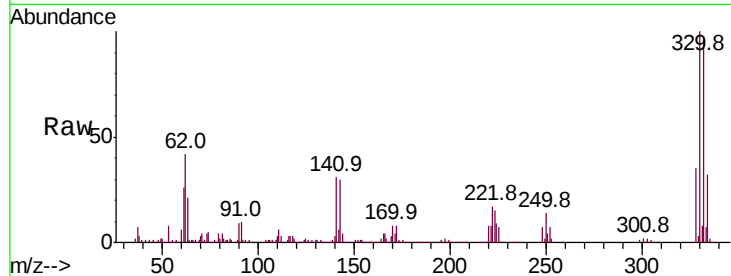




#42
 2,4,6-Tribromophenol
 Concen: 101.320 ng
 RT: 10.63 min Scan# 1452
 Delta R.T. -0.02 min
 Lab File: BF118887.D
 Acq: 11 Feb 2020 16:42

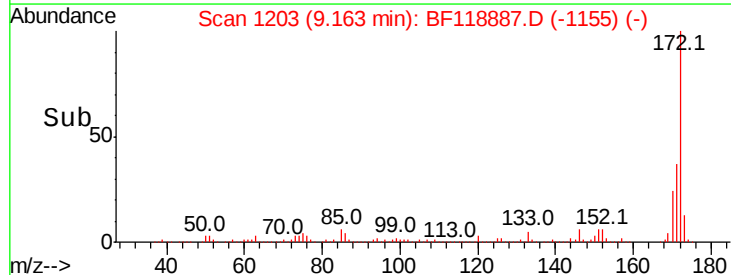
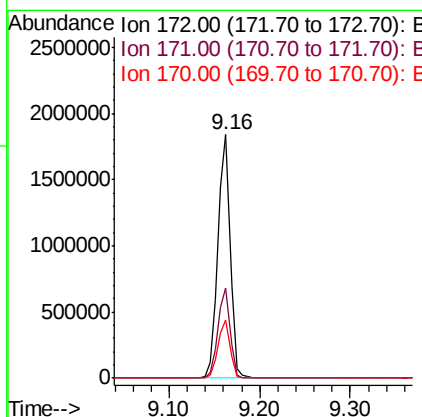
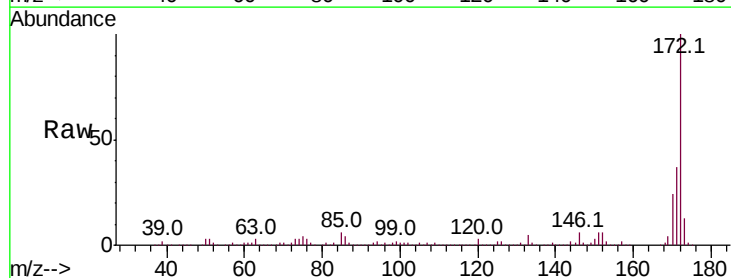
Instrument :
 BNA_F
 ClientSampleId :
 72-11931

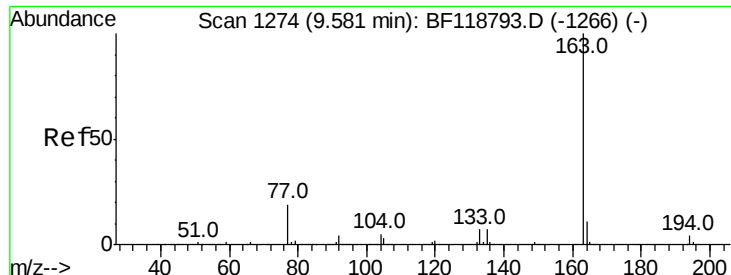
Tot Ion	Ratio	Lower	Upper
330	100		
332	96.8	77.3	115.9
141	27.9	22.4	33.6



#45
 2-Fluorobiphenyl
 Concen: 71.220 ng
 RT: 9.16 min Scan# 1203
 Delta R.T. -0.02 min
 Lab File: BF118887.D
 Acq: 11 Feb 2020 16:42

Tgt Ion	Ratio	Lower	Upper
172	100		
171	37.1	30.8	46.2
170	24.0	20.5	30.7

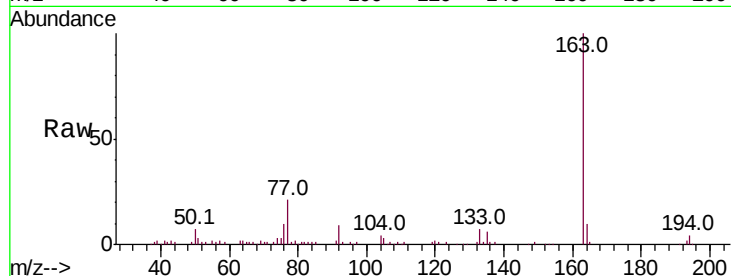




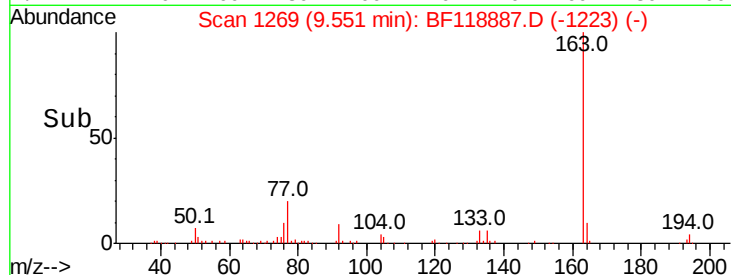
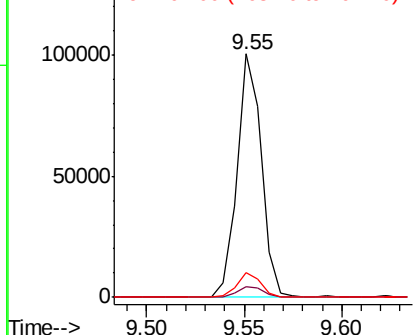
#50
Dimethylphthalate
Concen: 2.983 ng
RT: 9.55 min Scan# 1269
Delta R.T. -0.03 min
Lab File: BF118887.D
Acq: 11 Feb 2020 16:42

Instrument :
BNA_F
ClientSampled :
72-11931

Tot Ion:163 Resp: 86865
Ion Ratio Lower Upper
163 100
194 4.3 3.6 5.4
164 10.3 8.7 13.1

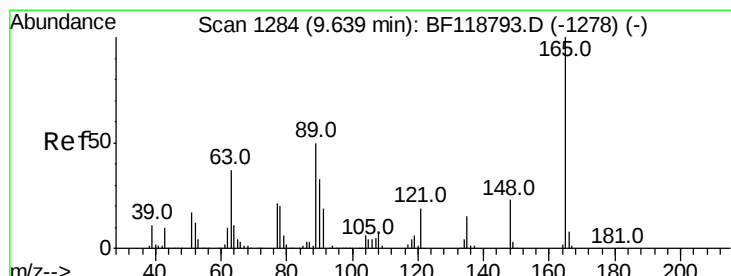


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

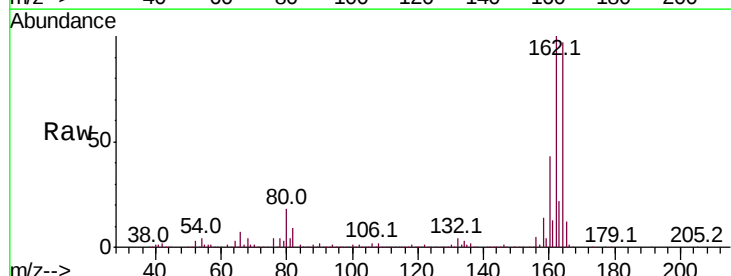
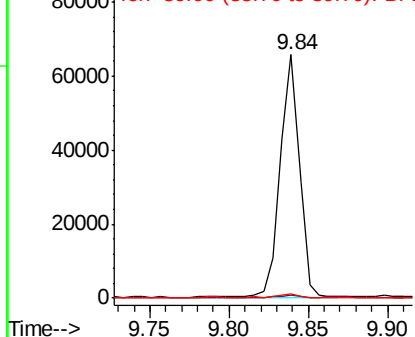


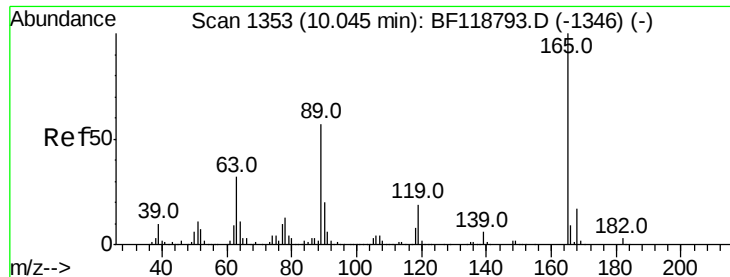
#51
2,6-Dinitrotoluene
Concen: 8.535 ng
RT: 9.84 min Scan# 1318
Delta R.T. 0.20 min
Lab File: BF118887.D
Acq: 11 Feb 2020 16:42

Tgt Ion:165 Resp: 56871
Ion Ratio Lower Upper
165 100
63 1.3 37.4 56.0#
89 1.7 39.7 59.5#



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

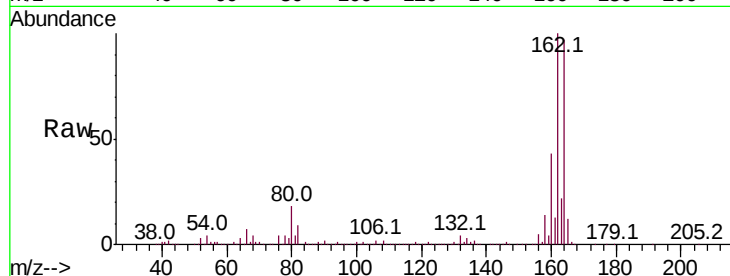




#57
 2,4-Dinitrotoluene
 Concen: 6.449 ng
 RT: 9.84 min Scan# 1318
 Delta R.T. -0.21 min
 Lab File: BF118887.D
 Acq: 11 Feb 2020 16:42

Instrument :
 BNA_F
 ClientSampleId :
 72-11931

Tot Ion	Ratio	Lower	Upper
165	100		
63	1.3	25.5	38.3#
89	1.7	45.4	68.0#
182	0.0	2.4	3.6#



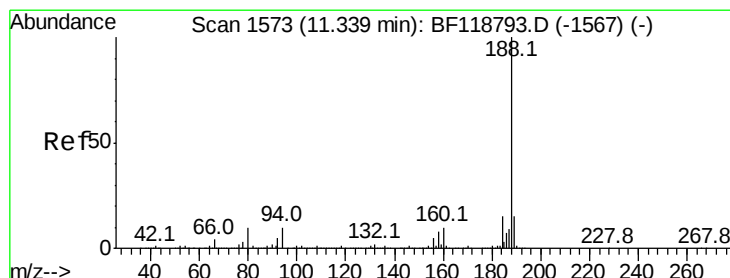
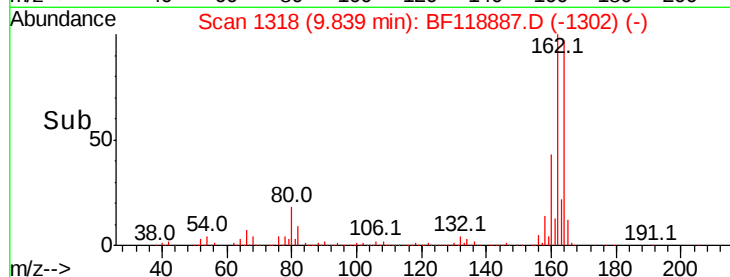
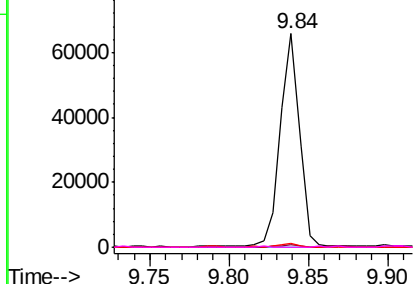
Abundance

Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

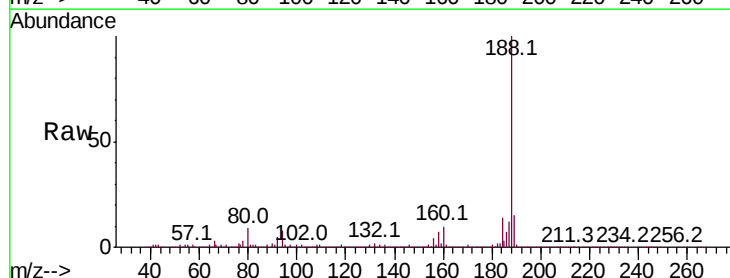
Ion 89.00 (88.70 to 89.70): BF1

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: BF118887.D
 Acq: 11 Feb 2020 16:42

Tgt Ion	Ratio	Lower	Upper
188	100		
94	8.2	7.9	11.9
80	9.0	8.4	12.6

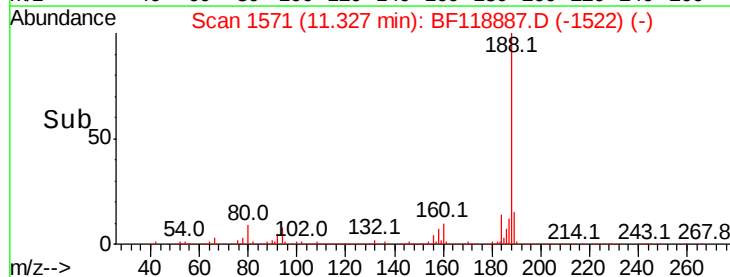
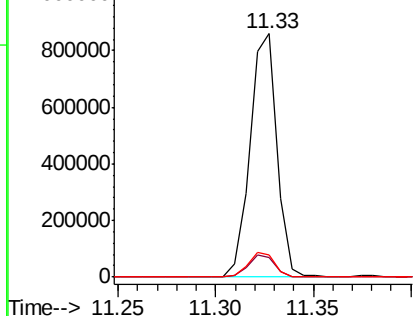


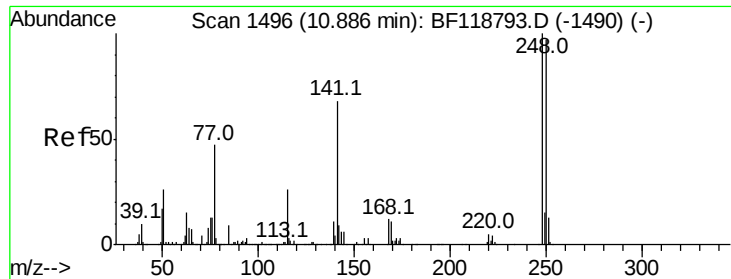
Abundance

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

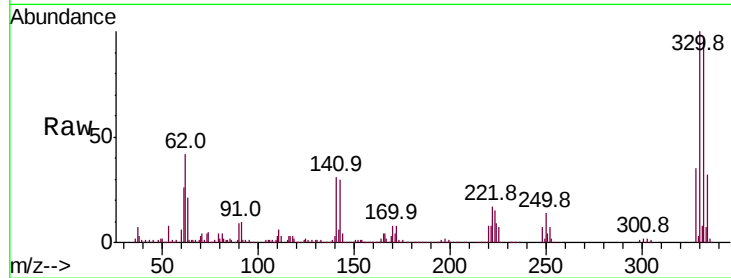




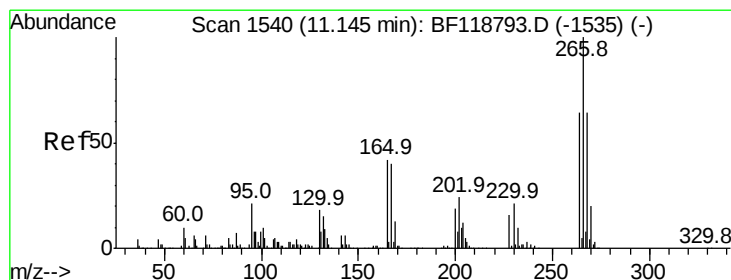
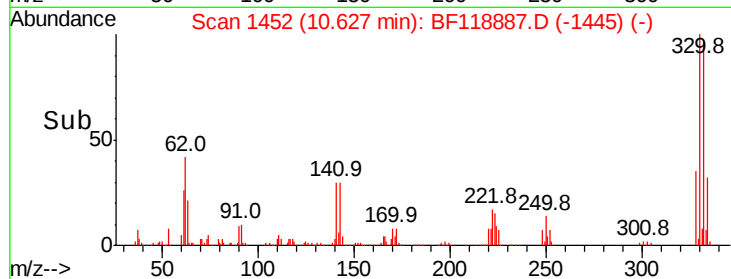
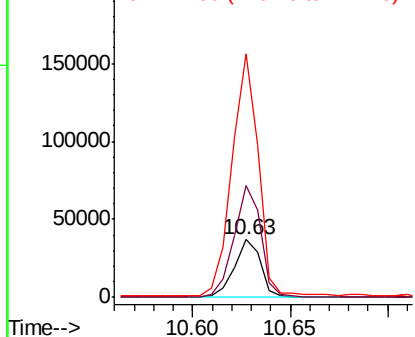
#67
 4-Bromophenyl-phenylether
 Concen: 3.573 ng
 RT: 10.63 min Scan# 1452
 Delta R.T. -0.26 min
 Lab File: BF118887.D
 Acq: 11 Feb 2020 16:42

Instrument :
 BNA_F
 ClientSampleId :
 72-11931

Tot Ion:248 Resp: 34775
 Ion Ratio Lower Upper
 248 100
 250 192.5 77.6 116.4#
 141 420.7 54.4 81.6#

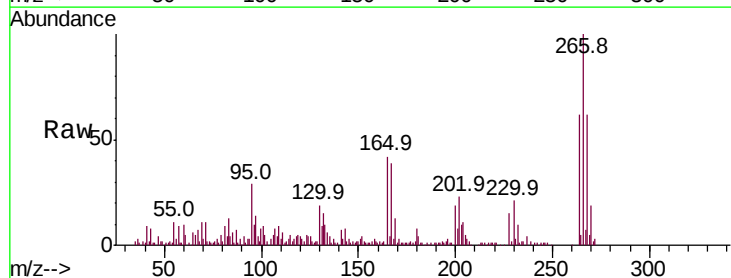


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

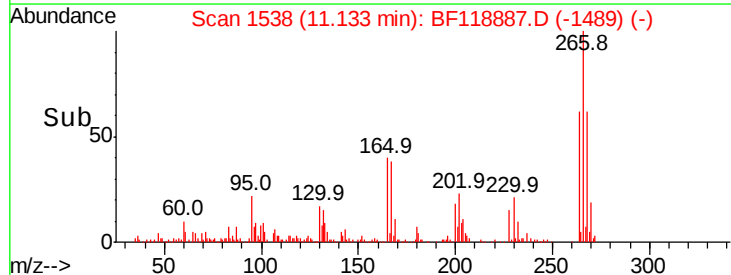
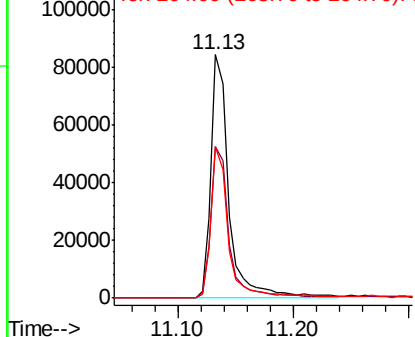


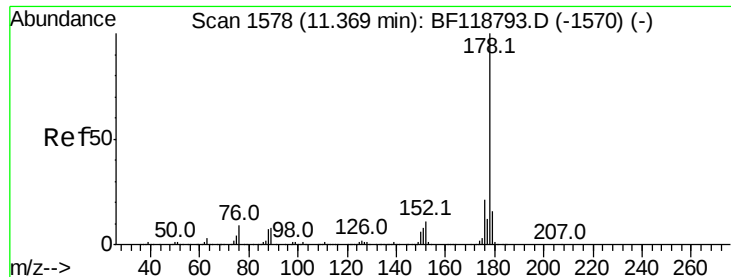
#70
 Pentachlorophenol
 Concen: 15.663 ng
 RT: 11.13 min Scan# 1538
 Delta R.T. -0.01 min
 Lab File: BF118887.D
 Acq: 11 Feb 2020 16:42

Tgt Ion:266 Resp: 92325
 Ion Ratio Lower Upper
 266 100
 268 62.2 51.0 76.6
 264 62.5 51.4 77.2



Abundance Ion 265.70 (265.40 to 266.40): E
 Ion 268.00 (267.70 to 268.70): E
 Ion 264.00 (263.70 to 264.70): E





#71

Phenanthrene

Concen: 4.926 ng

RT: 11.35 min Scan# 1574

Delta R.T. -0.02 min

Lab File: BF118887.D

Acq: 11 Feb 2020 16:42

Instrument :

BNA_F

ClientSampleId :

72-11931

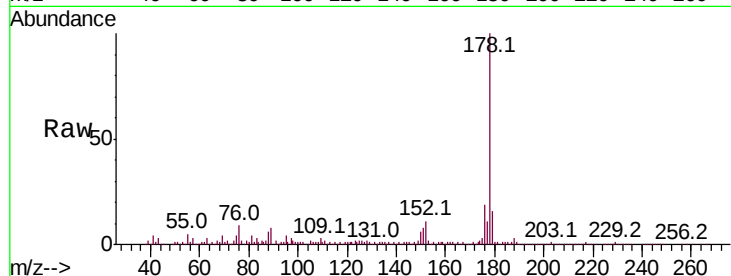
Tot Ion:178 Resp: 199402

Ion Ratio Lower Upper

178 100

176 18.7 16.6 24.8

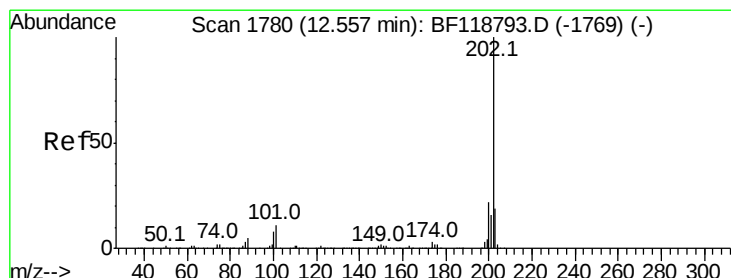
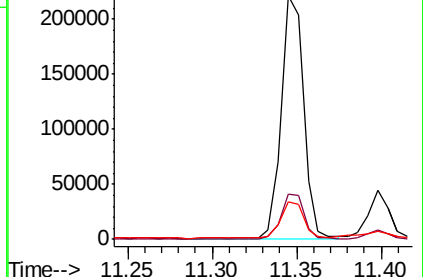
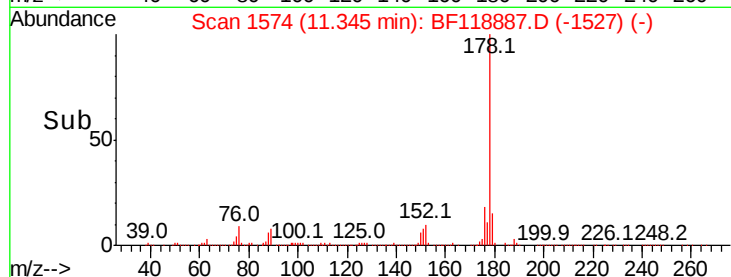
179 15.6 13.2 19.8



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#75

Fluoranthene

Concen: 13.005 ng

RT: 12.54 min Scan# 1777

Delta R.T. -0.02 min

Lab File: BF118887.D

Acq: 11 Feb 2020 16:42

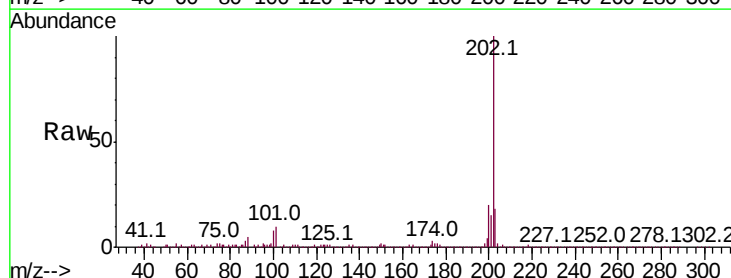
Tgt Ion:202 Resp: 574781

Ion Ratio Lower Upper

202 100

101 10.2 0.0 31.0

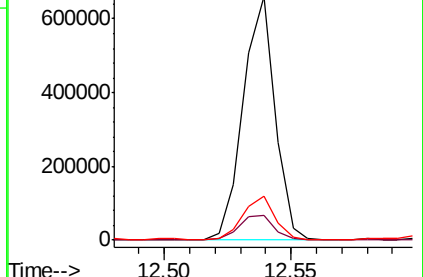
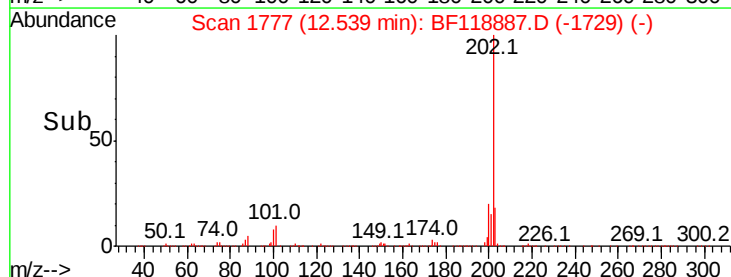
203 18.1 0.0 38.7

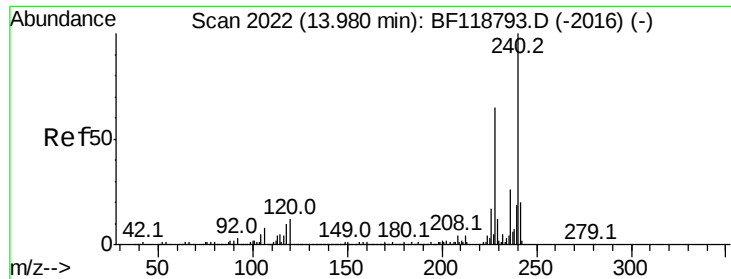


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.97 min Scan# 2020

Delta R.T. -0.01 min

Lab File: BF118887.D

Acq: 11 Feb 2020 16:42

Instrument :

BNA_F

ClientSampleId :

72-11931

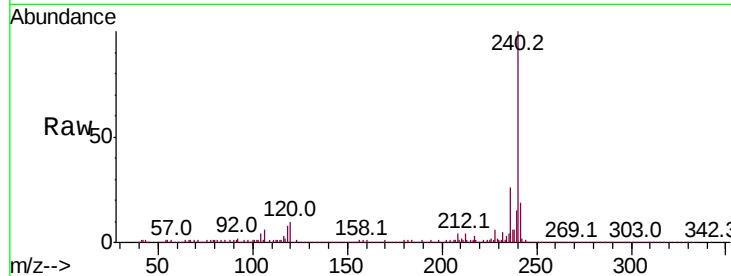
Tot Ion:240 Resp: 695075

Ion Ratio Lower Upper

240 100

120 9.6 9.4 14.0

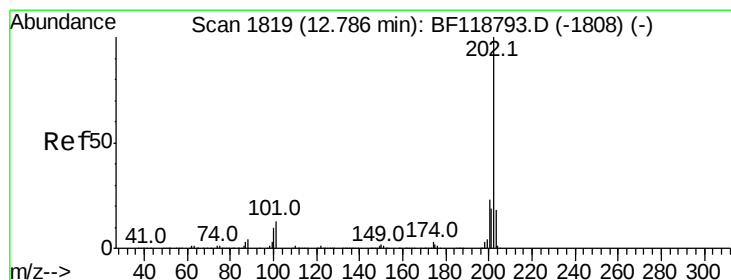
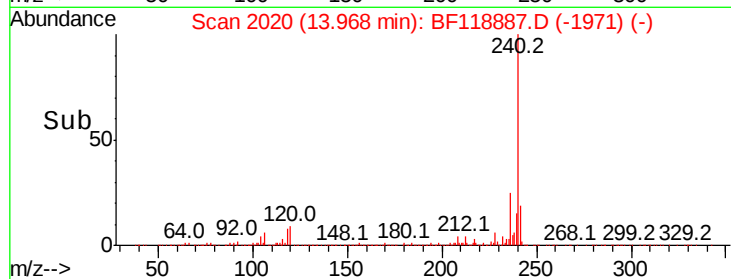
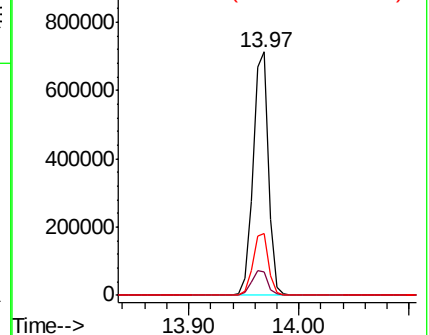
236 25.5 21.0 31.6



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: 11.175 ng

RT: 12.77 min Scan# 1816

Delta R.T. -0.02 min

Lab File: BF118887.D

Acq: 11 Feb 2020 16:42

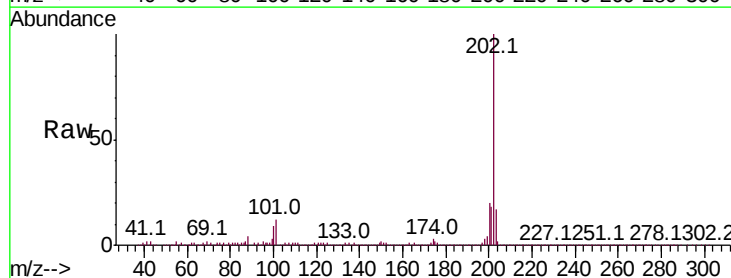
Tgt Ion:202 Resp: 532876

Ion Ratio Lower Upper

202 100

200 20.5 18.2 27.2

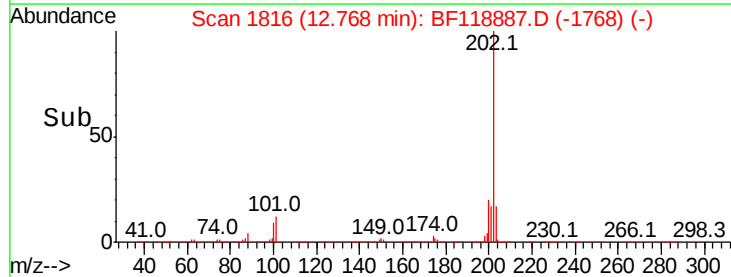
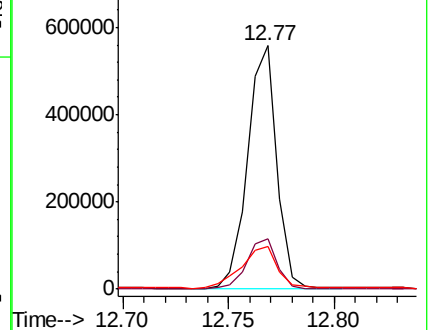
203 17.4 14.8 22.2

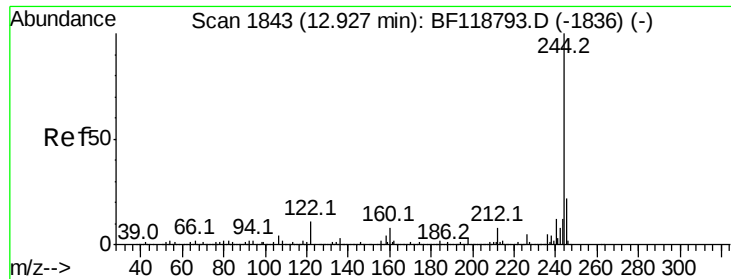


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



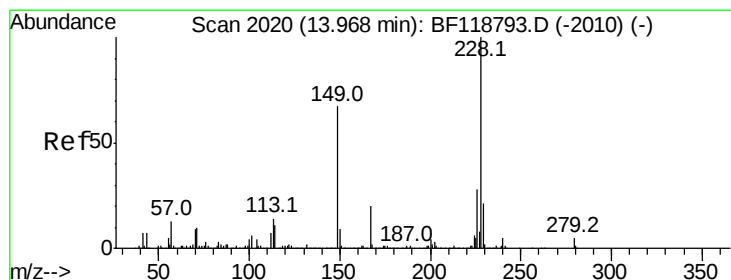
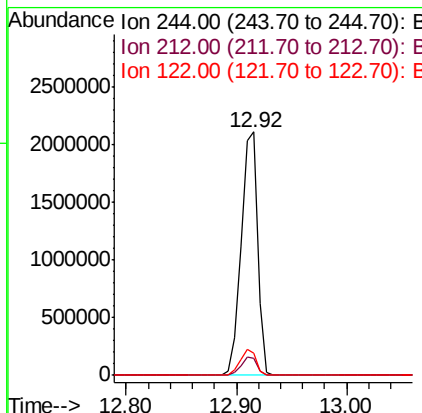
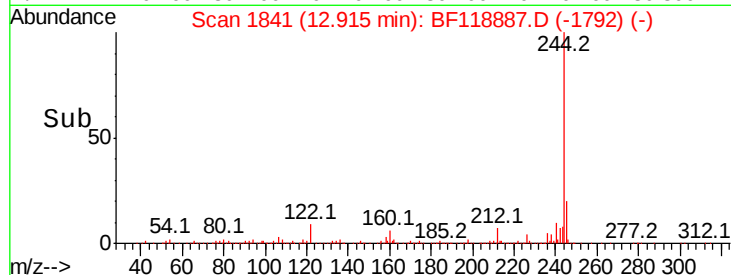
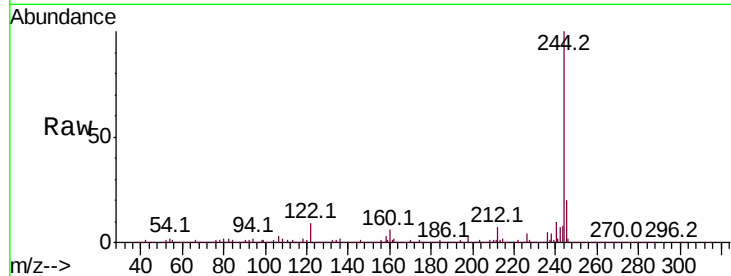


#79
 Terphenyl-d14
 Concen: 65.579 ng
 RT: 12.92 min Scan# 1841
 Delta R.T. -0.01 min
 Lab File: BF118887.D
 Acq: 11 Feb 2020 16:42

Instrument :
 BNA_F
 ClientSampleId :
 72-11931

Tot Ion:244 Resp: 2219137

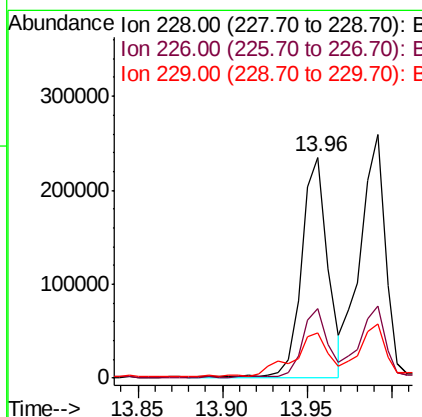
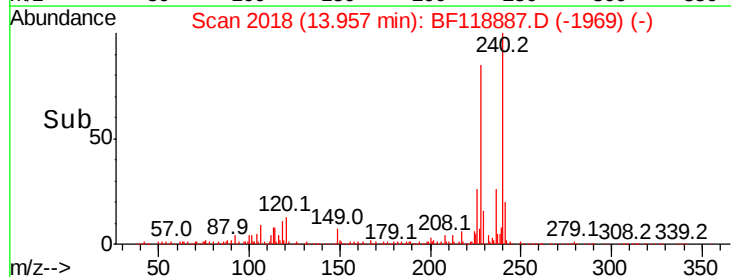
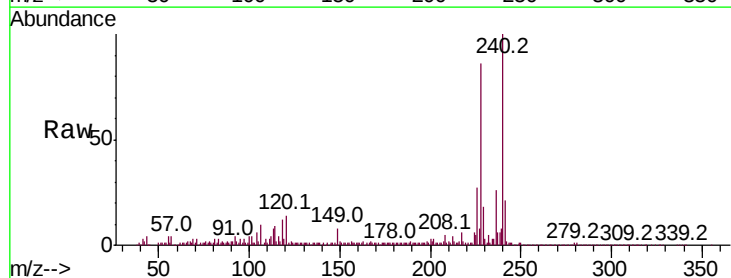
Ion	Ratio	Lower	Upper
244	100		
212	7.2	6.5	9.7
122	9.0	8.9	13.3

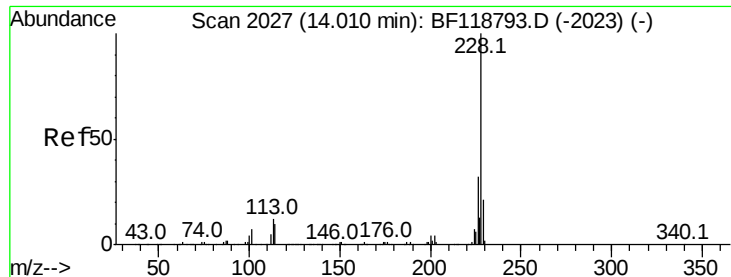


#81
 Benzo(a)anthracene
 Concen: 6.038 ng
 RT: 13.96 min Scan# 2018
 Delta R.T. -0.01 min
 Lab File: BF118887.D
 Acq: 11 Feb 2020 16:42

Tgt Ion:228 Resp: 249750

Ion	Ratio	Lower	Upper
228	100		
226	31.3	22.7	34.1
229	20.5	16.6	25.0





#83

Chrysene

Concen: 6.455 ng

RT: 13.99 min Scan# 2024

Delta R.T. -0.02 min

Lab File: BF118887.D

Acq: 11 Feb 2020 16:42

Instrument :

BNA_F

ClientSampleId :

72-11931

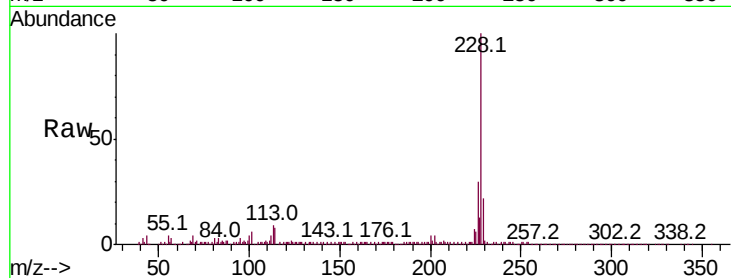
Tot Ion:228 Resp: 267981

Ion Ratio Lower Upper

228 100

226 29.6 25.4 38.0

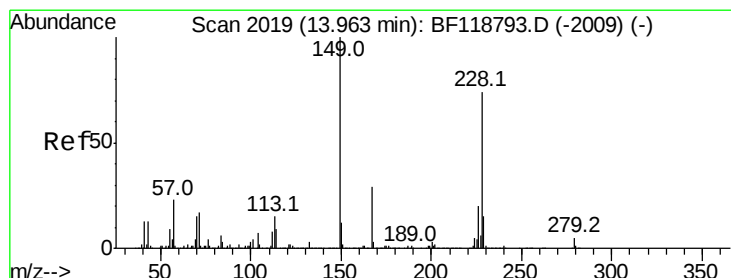
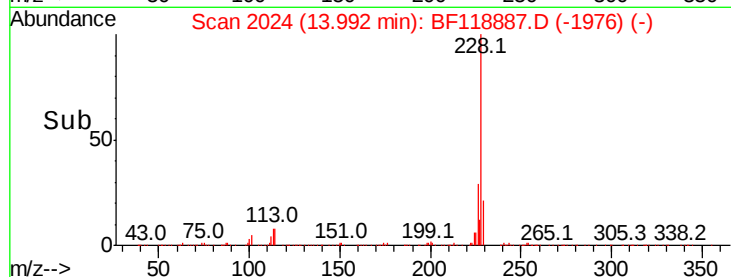
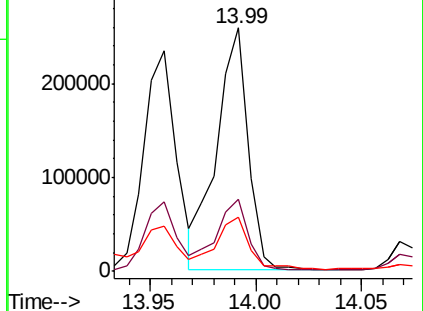
229 22.3 16.9 25.3



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



#84

Bis(2-ethylhexyl)phthalate

Concen: 2.714 ng

RT: 13.94 min Scan# 2016

Delta R.T. -0.02 min

Lab File: BF118887.D

Acq: 11 Feb 2020 16:42

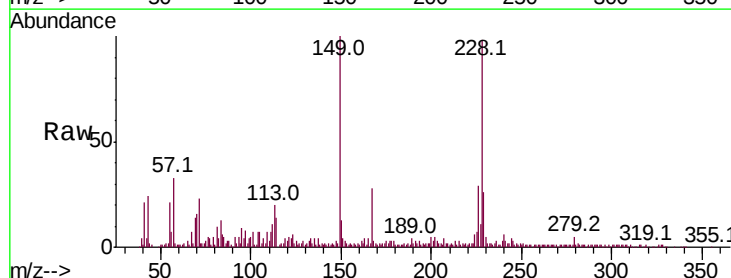
Tgt Ion:149 Resp: 74929

Ion Ratio Lower Upper

149 100

167 28.3 23.0 34.6

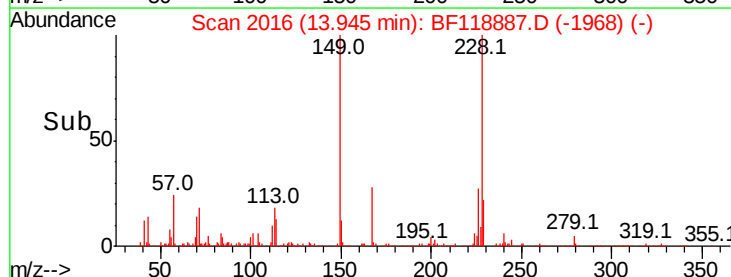
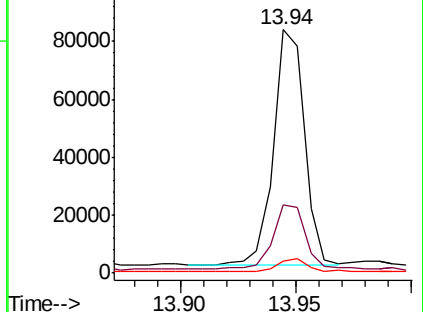
279 5.1 4.4 6.6

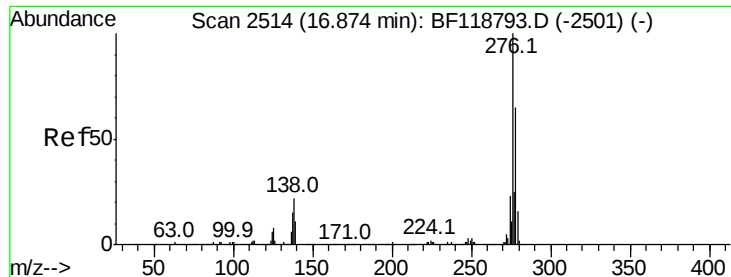


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

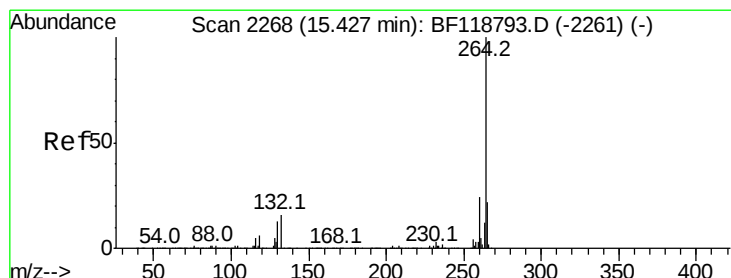
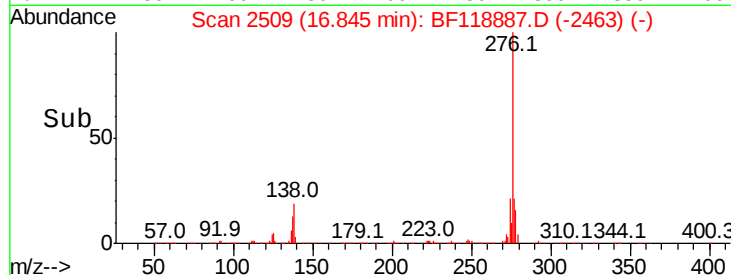
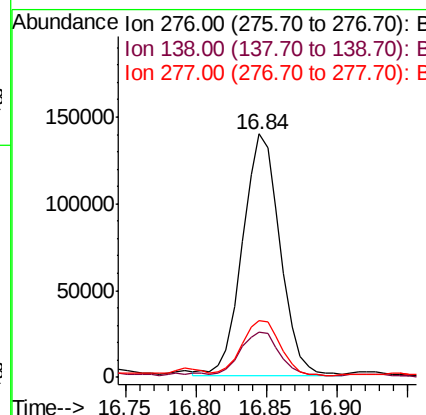
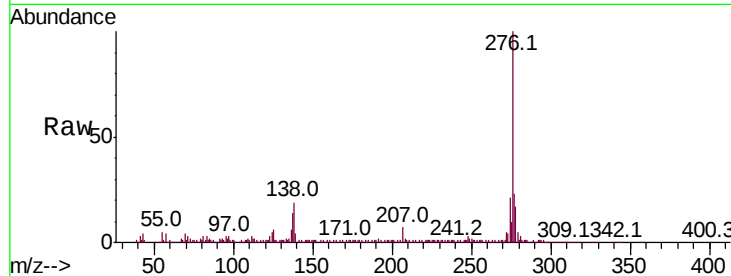




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 6.226 ng
 RT: 16.84 min Scan# 2509
 Delta R.T. -0.03 min
 Lab File: BF118887.D
 Acq: 11 Feb 2020 16:42

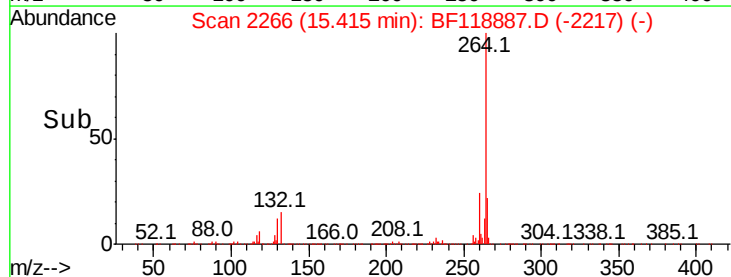
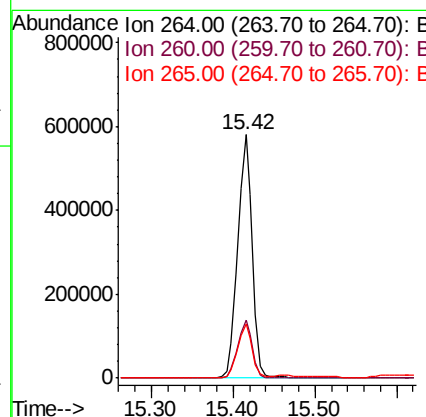
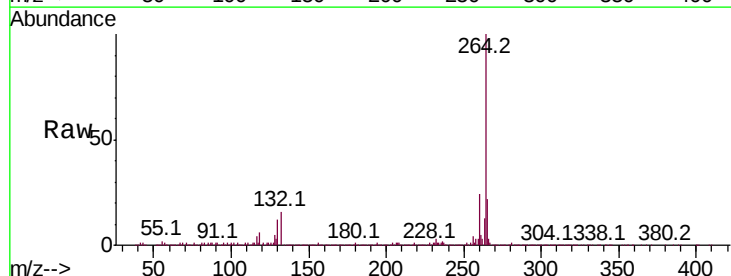
Instrument :
 BNA_F
 ClientSampleId :
 72-11931

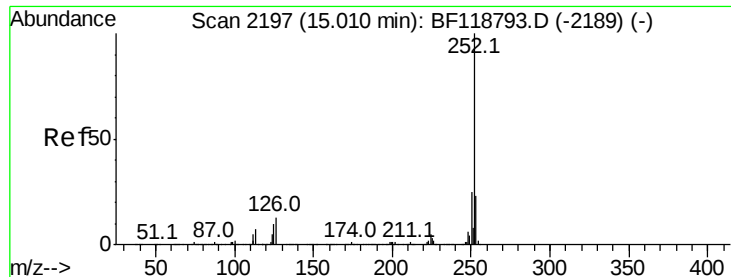
Tot Ion	Ratio	Lower	Upper
276	100		
138	18.8	18.3	27.5
277	23.5	20.2	30.4



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.42 min Scan# 2266
 Delta R.T. -0.01 min
 Lab File: BF118887.D
 Acq: 11 Feb 2020 16:42

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.1	28.7
265	22.0	17.2	25.8





#88

Benzo(b)fluoranthene

Concen: 11.766 ng

RT: 14.99 min Scan# 2194

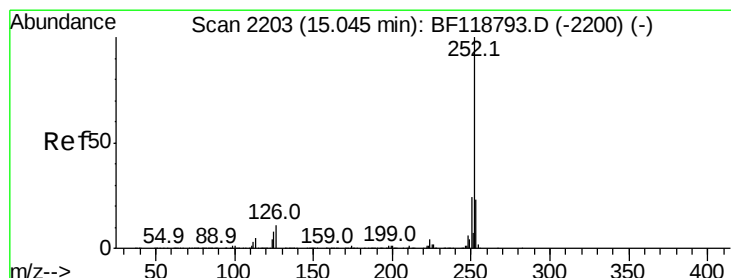
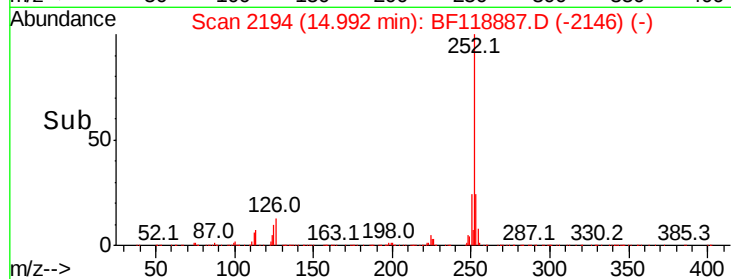
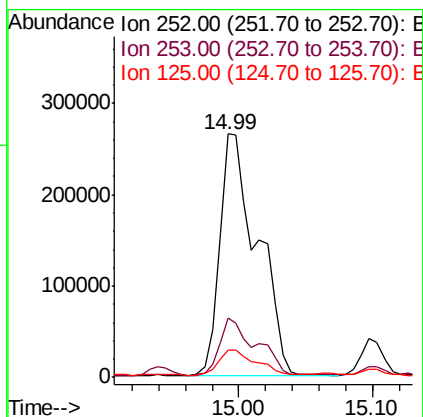
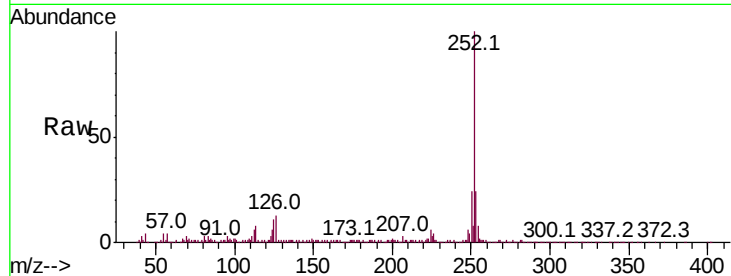
Delta R.T. -0.02 min

Lab File: BF118887.D

Acq: 11 Feb 2020 16:42

Instrument :
BNA_F
ClientSampleId :
72-11931

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.4	18.4	27.6
125	11.2	8.1	12.1



#89

Benzo(k)fluoranthene

Concen: 13.512 ng

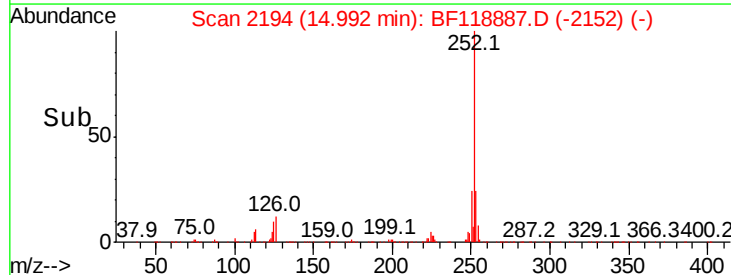
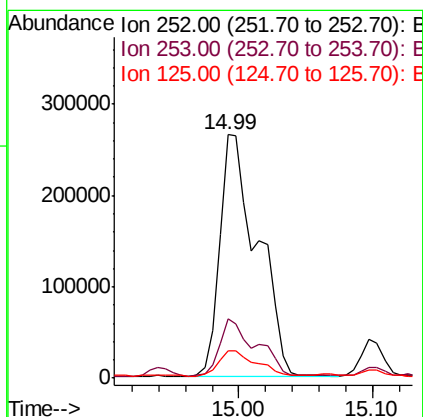
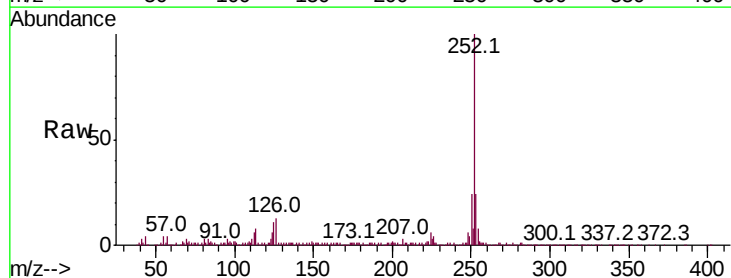
RT: 14.99 min Scan# 2194

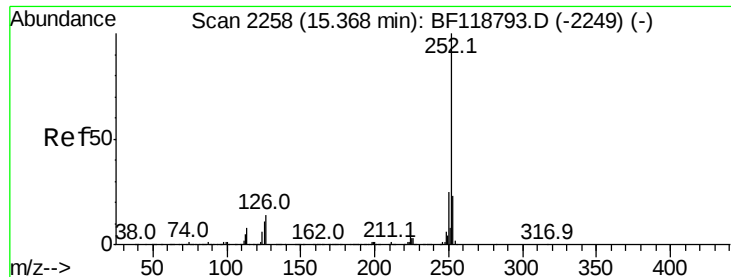
Delta R.T. -0.05 min

Lab File: BF118887.D

Acq: 11 Feb 2020 16:42

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.4	18.2	27.4
125	11.2	7.0	10.6





#90

Benzo(a)pyrene

Concen: 6.867 ng

RT: 15.35 min Scan# 2255

Delta R.T. -0.02 min

Lab File: BF118887.D

Acq: 11 Feb 2020 16:42

Instrument :

BNA_F

ClientSampleId :

72-11931

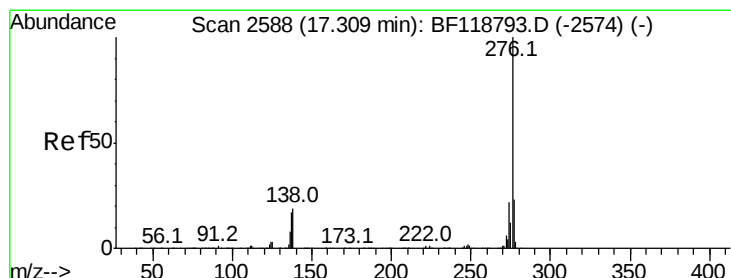
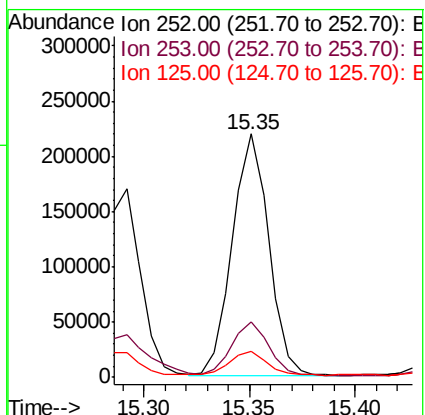
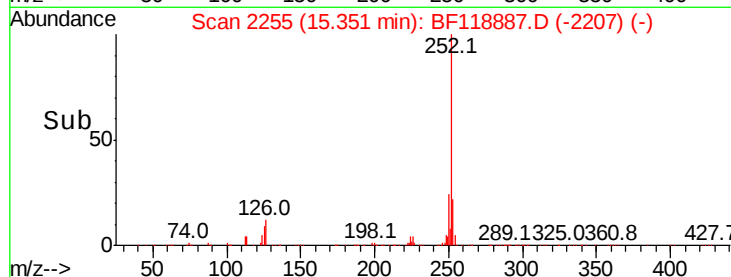
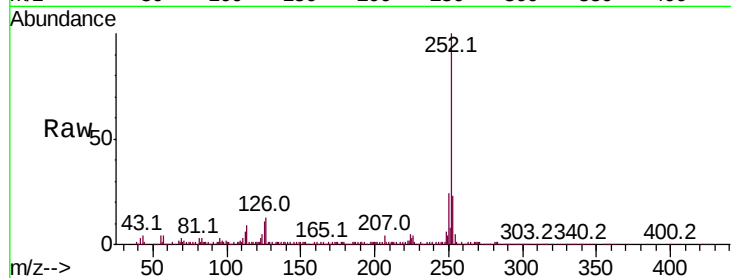
Tot Ion:252 Resp: 261718

Ion Ratio Lower Upper

252 100

253 22.9 18.1 27.1

125 10.6 8.7 13.1



#92

Benzo(g,h,i)perylene

Concen: 8.172 ng

RT: 17.28 min Scan# 2583

Delta R.T. -0.03 min

Lab File: BF118887.D

Acq: 11 Feb 2020 16:42

Tgt Ion:276 Resp: 265914

Ion Ratio Lower Upper

276 100

277 24.6 18.7 28.1

138 18.5 15.4 23.2

