

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030920\
 Data File : BF119304.D
 Acq On : 10 Mar 2020 1:23
 Operator : CG/JU
 Sample : L1778-15
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Mar 10 03:04:27 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 06 23:38:46 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	98483	20.00	ng	0.00
21) Naphthalene-d8	8.00	136	368965	20.00	ng	0.00
39) Acenaphthene-d10	9.76	164	194038	20.00	ng	0.00
64) Phenanthrene-d10	11.24	188	324317	20.00	ng	0.00
76) Chrysene-d12	13.88	240	234554	20.00	ng	0.00
87) Perylene-d12	15.31	264	272026	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.35	112	468891	79.57	ng	0.00
7) Phenol-d6	6.38	99	586712	81.86	ng	0.00
23) Nitrobenzene-d5	7.29	82	385430	55.16	ng	0.00
42) 2,4,6-Tribromophenol	10.55	330	171104	67.41	ng	0.00
45) 2-Fluorobiphenyl	9.08	172	713317	54.16	ng	0.00
79) Terphenyl-d14	12.82	244	610148	44.79	ng	0.00

Target Compounds

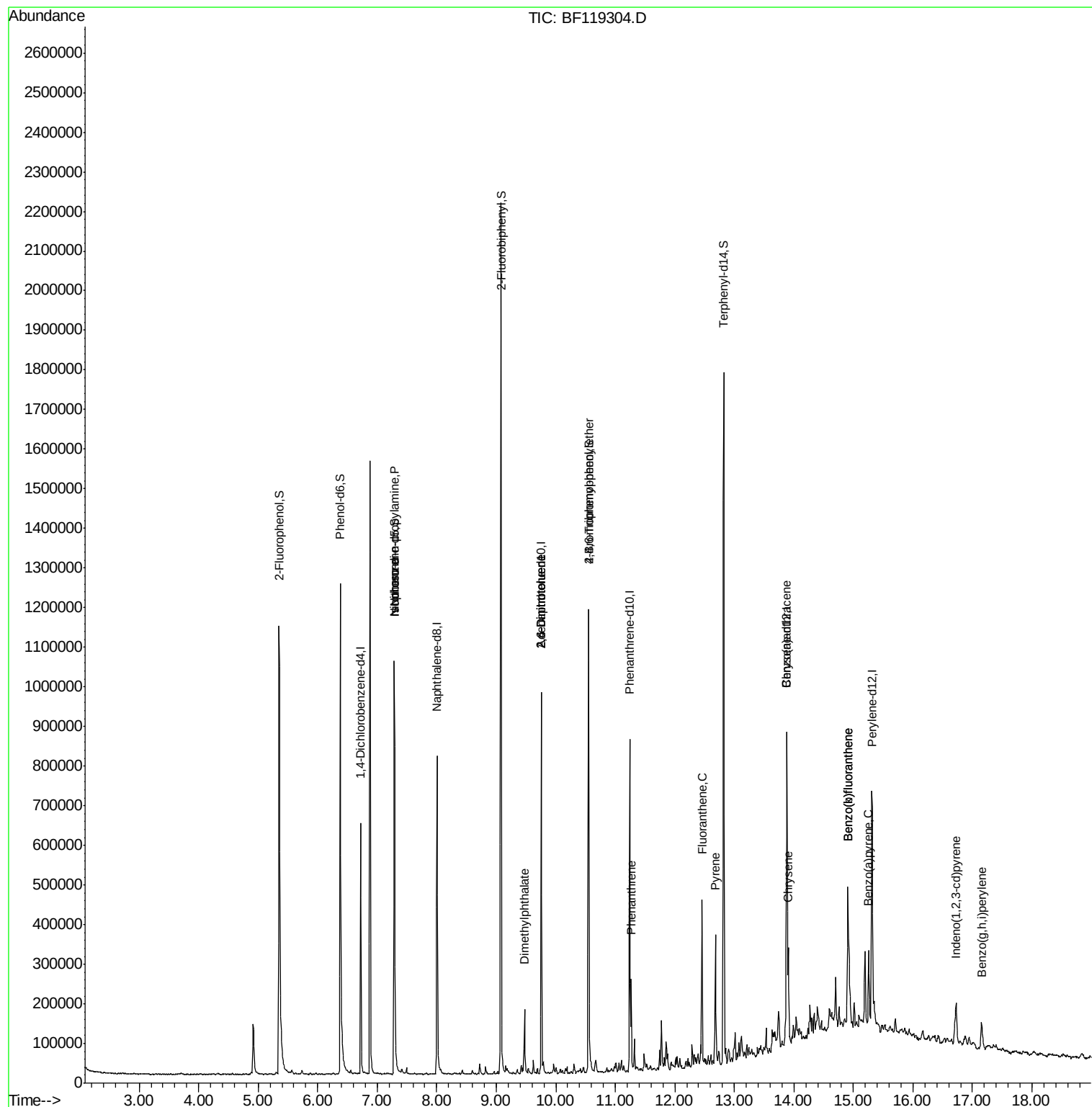
						Qvalue
19) n-Nitroso-di-n-propylamine	7.29	70	52629	12.602	ng	# 76
25) Isophorone	7.29	82	385430	31.759	ng	# 63
50) Dimethylphthalate	9.47	163	69284	4.669	ng	100
51) 2,6-Dinitrotoluene	9.76	165	25827	7.835	ng	# 33
57) 2,4-Dinitrotoluene	9.76	165	25827	6.044	ng	# 21
67) 4-Bromophenyl-phenylether	10.55	248	11413	2.692	ng	# 1
71) Phenanthrene	11.26	178	91676	5.183	ng	97
75) Fluoranthene	12.46	202	164136	8.743	ng	98
78) Pyrene	12.69	202	144120	7.652	ng	97
81) Benzo(a)anthracene	13.87	228	97779	6.118	ng	98
83) Chrysene	13.91	228	102794	6.455	ng	96
86) Indeno(1,2,3-cd)pyrene	16.73	276	59465	3.857	ng	96
88) Benzo(b)fluoranthene	14.90	252	238342	13.293	ng	100
89) Benzo(k)fluoranthene	14.90	252	238342	14.344	ng	100
90) Benzo(a)pyrene	15.26	252	97401	6.019	ng	99
92) Benzo(g,h,i)perylene	17.15	276	54292	3.859	ng	95

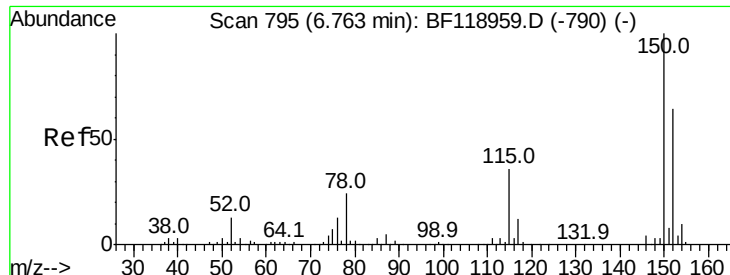
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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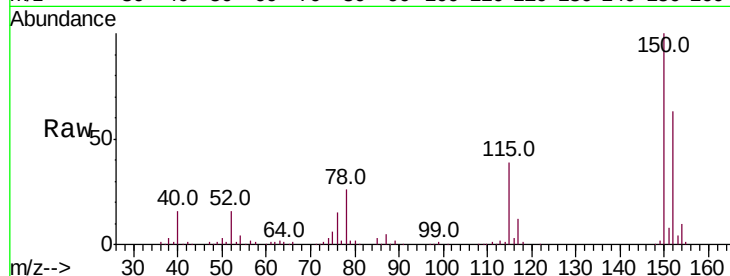


#1

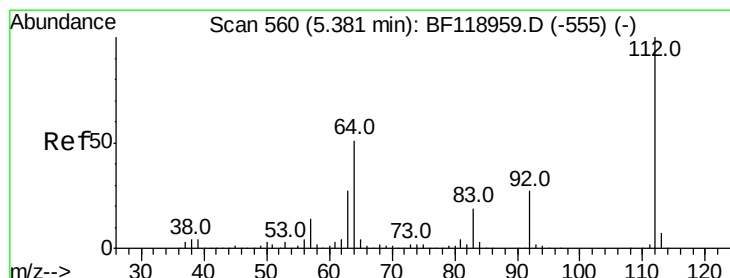
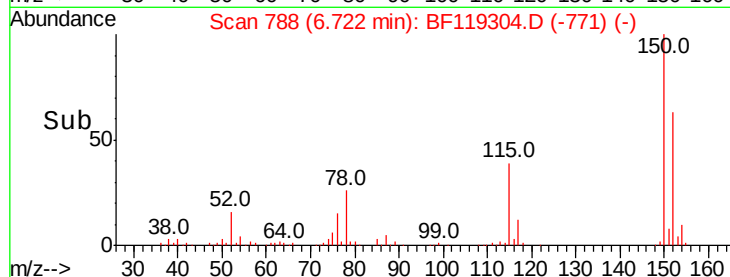
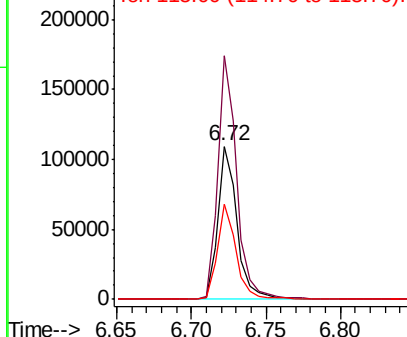
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.72 min Scan# 788
Delta R.T. 0.00 min
Lab File: BF119304.D
Acq: 10 Mar 2020 1:23

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.9	123.0	184.6
115	62.0	49.5	74.3



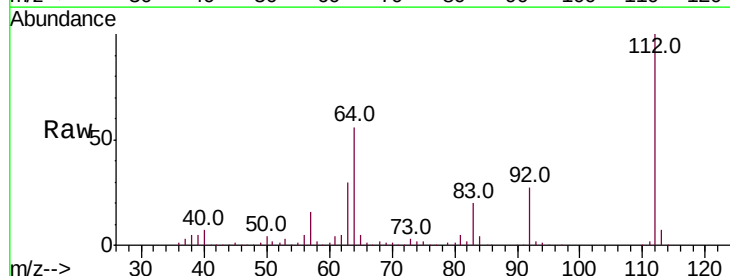
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



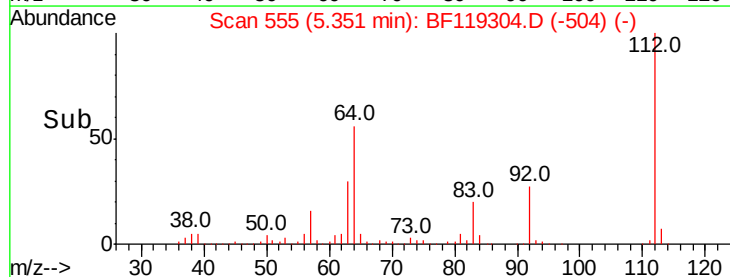
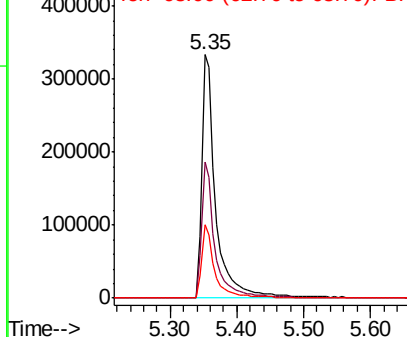
#5

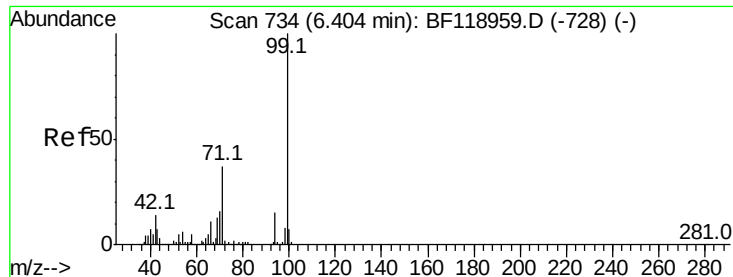
2-Fluorophenol
Concen: 79.567 ng
RT: 5.35 min Scan# 555
Delta R.T. 0.00 min
Lab File: BF119304.D
Acq: 10 Mar 2020 1:23

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.1	45.0	67.4
63	30.1	24.2	36.4



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: 81.863 ng

RT: 6.38 min Scan# 730

Delta R.T. 0.00 min

Lab File: BF119304.D

Acq: 10 Mar 2020 1:23

Instrument :

BNA_F

ClientSampleId :

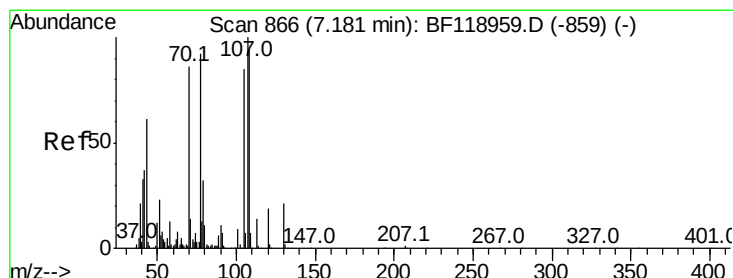
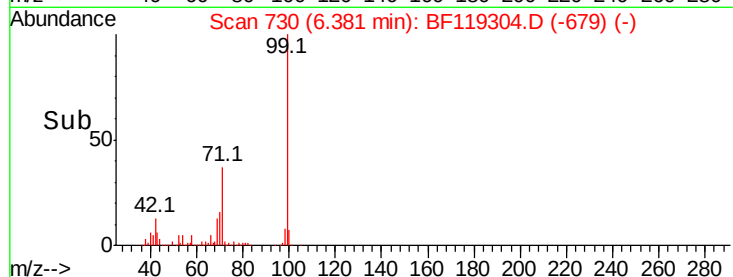
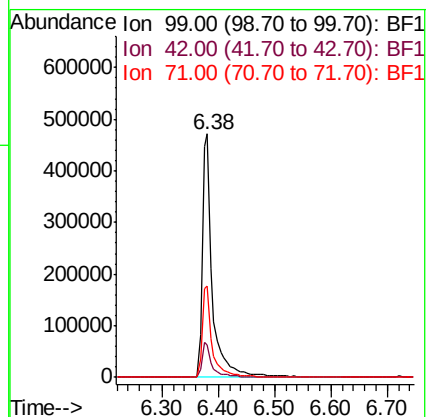
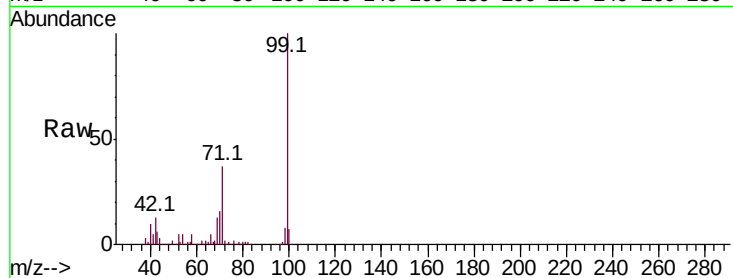
Tot Ion: 99 Resp: 586712

Ion Ratio Lower Upper

99 100

42 13.3 12.6 18.8

71 37.4 31.0 46.4



#19

n-Nitroso-di-n-propylamine

Concen: 12.602 ng

RT: 7.29 min Scan# 884

Delta R.T. 0.14 min

Lab File: BF119304.D

Acq: 10 Mar 2020 1:23

Tgt Ion: 70 Resp: 52629

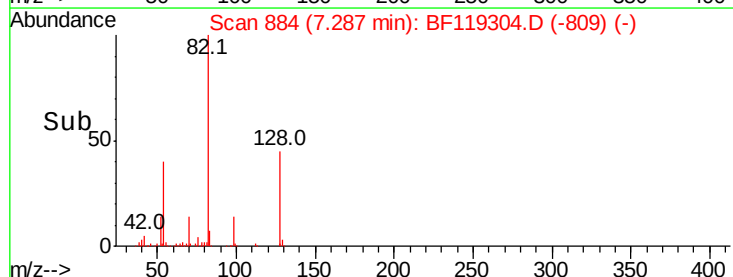
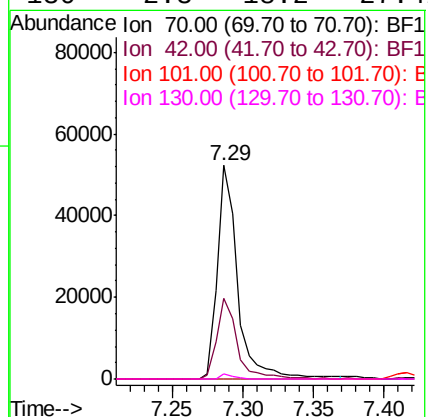
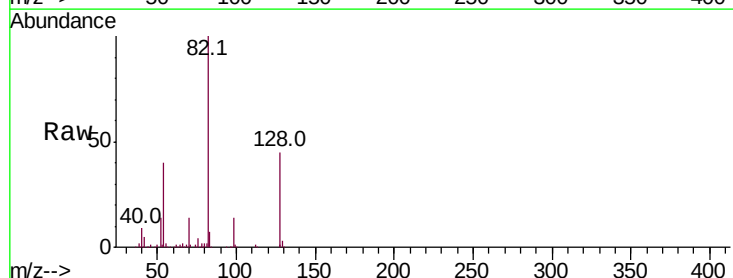
Ion Ratio Lower Upper

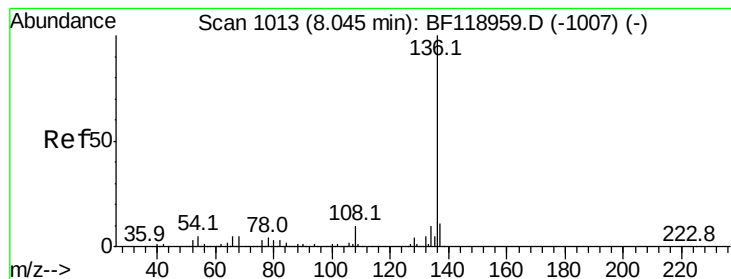
70 100

42 37.9 38.0 57.0#

101 0.0 8.2 12.4#

130 2.3 18.2 27.4#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.00 min Scan# 1006

Delta R.T. -0.01 min

Lab File: BF119304.D

Acq: 10 Mar 2020 1:23

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 368965

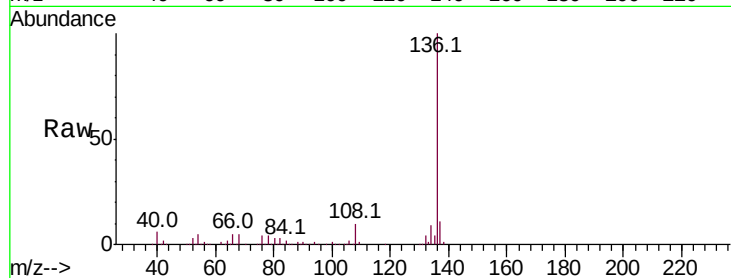
Ion Ratio Lower Upper

136 100

137 10.8 8.8 13.2

54 4.9 3.8 5.6

68 5.0 3.9 5.9

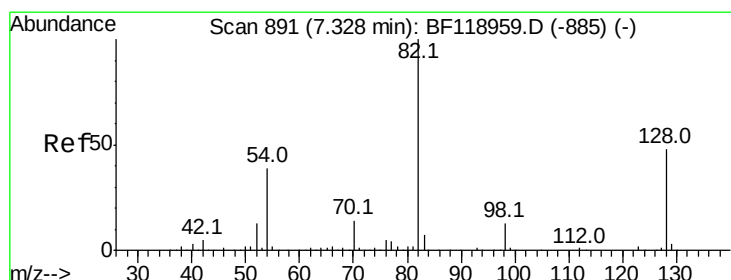
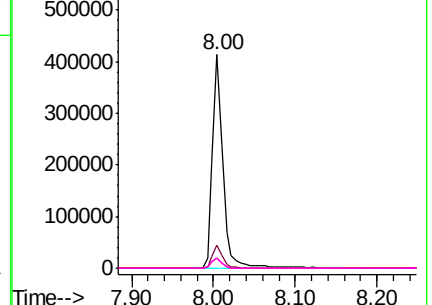
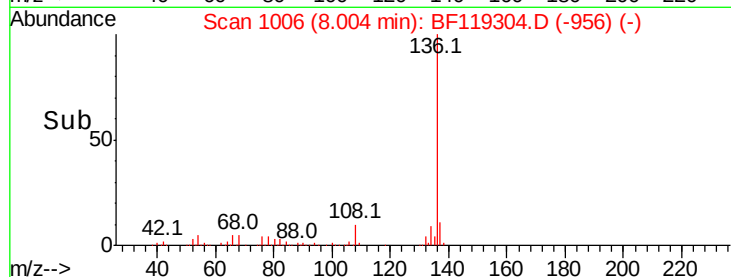


Abundance Ion 136.00 (135.70 to 136.70): E

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: 55.156 ng

RT: 7.29 min Scan# 884

Delta R.T. -0.01 min

Lab File: BF119304.D

Acq: 10 Mar 2020 1:23

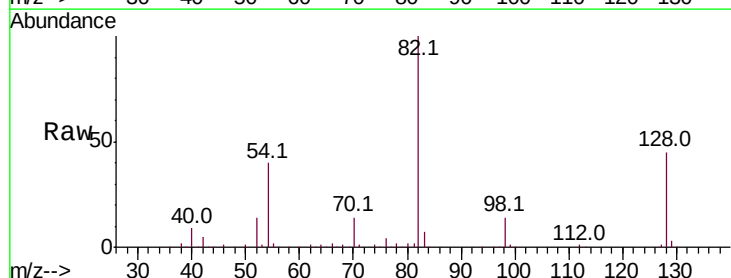
Tgt Ion: 82 Resp: 385430

Ion Ratio Lower Upper

82 100

128 44.9 37.9 56.9

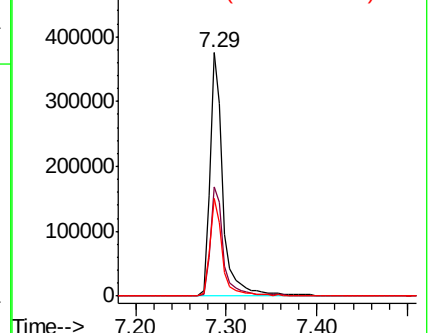
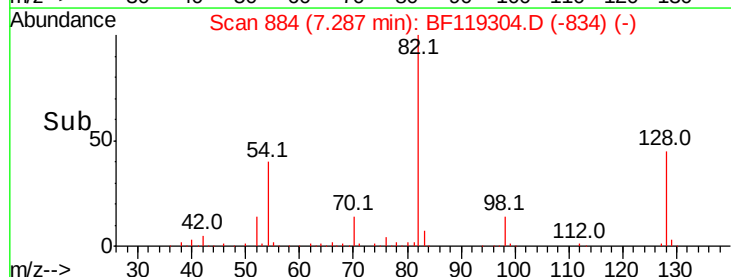
54 40.1 33.4 50.2

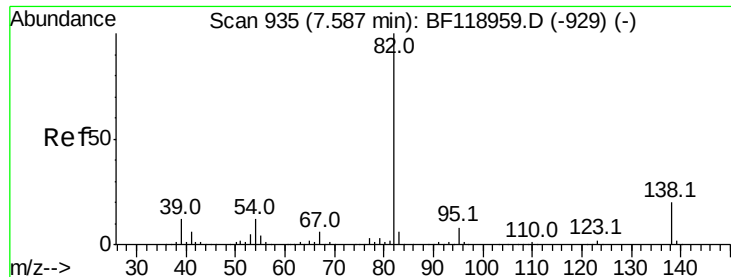


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 31.759 ng

RT: 7.29 min Scan# 884

Delta R.T. -0.26 min

Lab File: BF119304.D

Acq: 10 Mar 2020 1:23

Instrument :

BNA_F

ClientSampled :

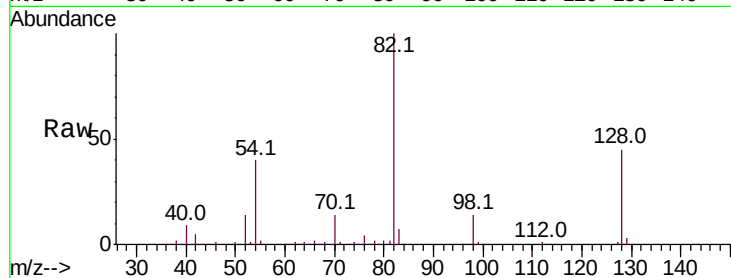
Tot Ion: 82 Resp: 385430

Ion Ratio Lower Upper

82 100

95 0.0 6.4 9.6#

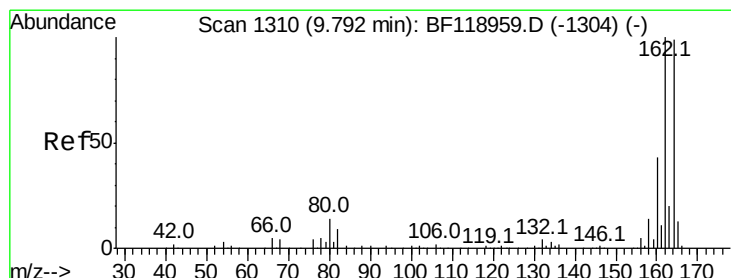
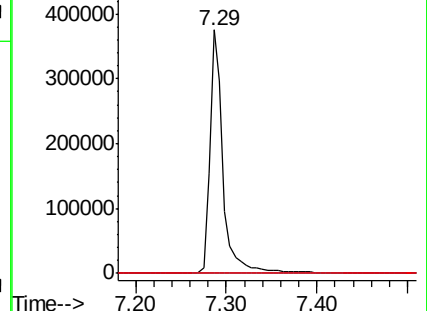
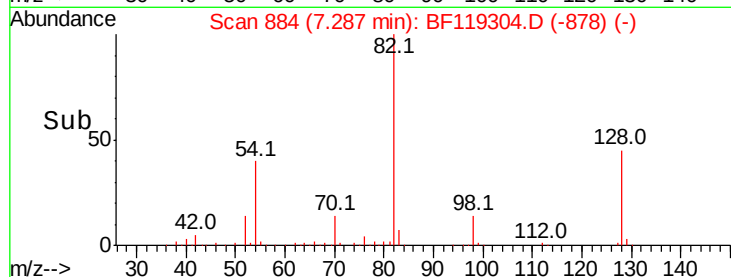
138 0.0 15.7 23.5#



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): BF1



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.76 min Scan# 1304

Delta R.T. -0.01 min

Lab File: BF119304.D

Acq: 10 Mar 2020 1:23

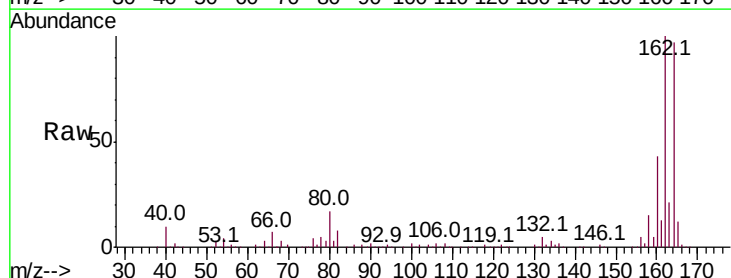
Tgt Ion: 164 Resp: 194038

Ion Ratio Lower Upper

164 100

162 102.8 81.8 122.8

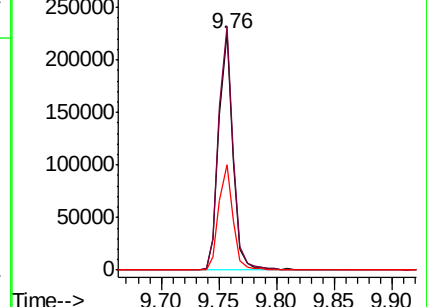
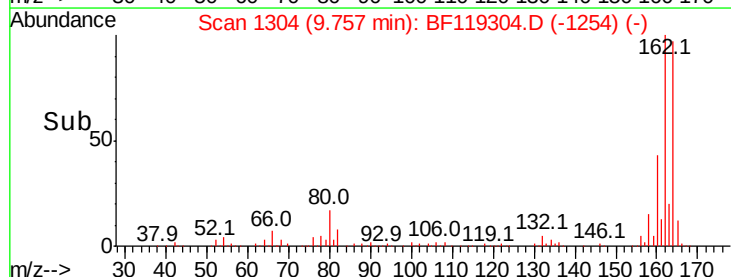
160 44.5 36.0 54.0

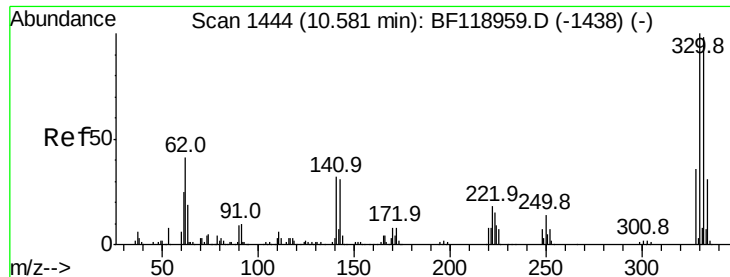


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

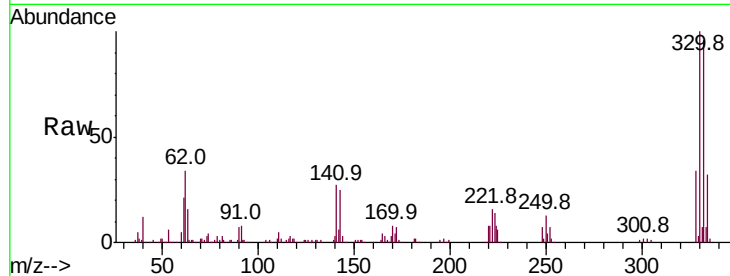




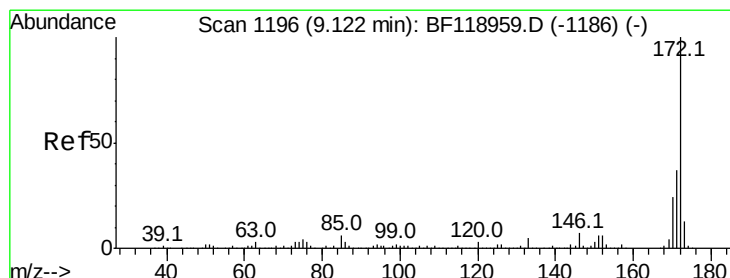
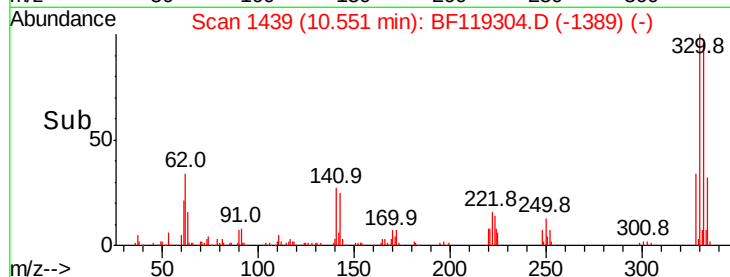
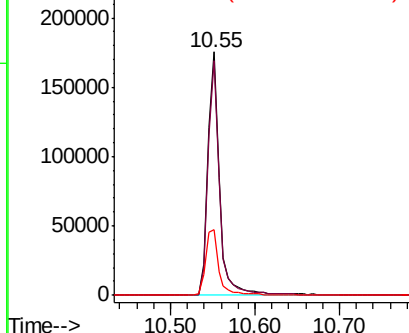
#42
 2,4,6-Tribromophenol
 Concen: 67.408 ng
 RT: 10.55 min Scan# 1439
 Delta R.T. -0.01 min
 Lab File: BF119304.D
 Acq: 10 Mar 2020 1:23

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
330	100		
332	95.6	76.0	114.0
141	31.1	22.9	34.3

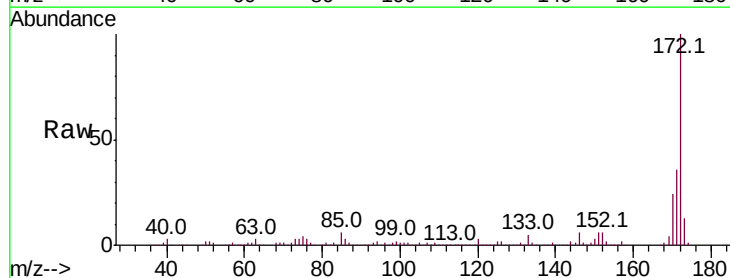


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

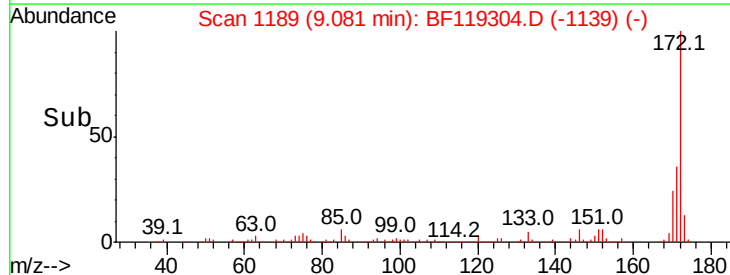
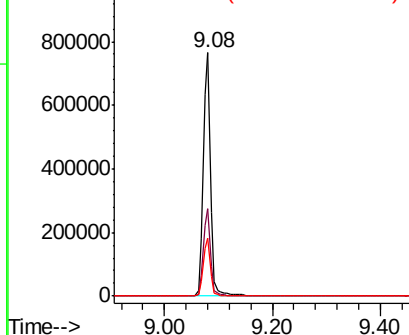


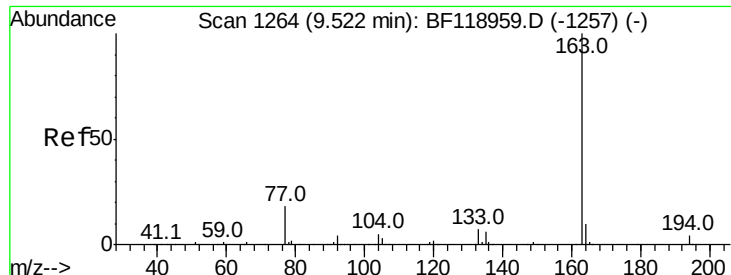
#45
 2-Fluorobiphenyl
 Concen: 54.156 ng
 RT: 9.08 min Scan# 1189
 Delta R.T. -0.01 min
 Lab File: BF119304.D
 Acq: 10 Mar 2020 1:23

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.1	30.6	45.8
170	24.0	20.2	30.2



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

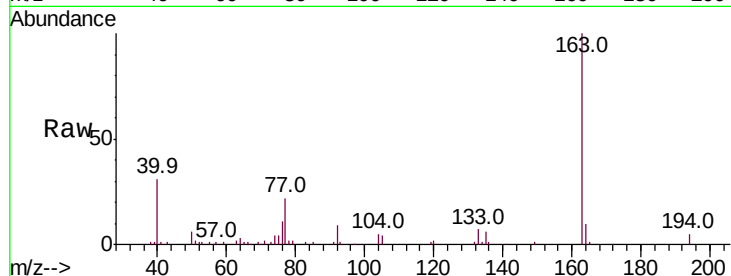




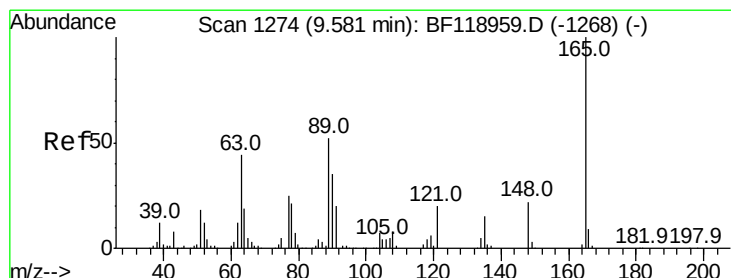
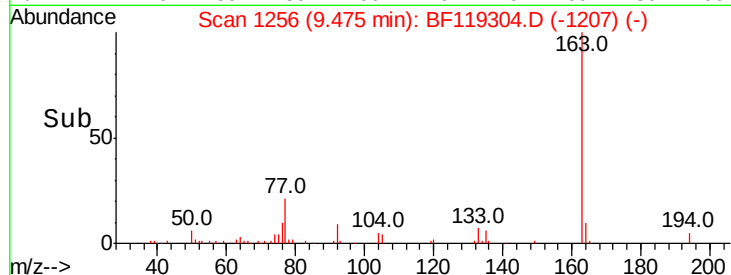
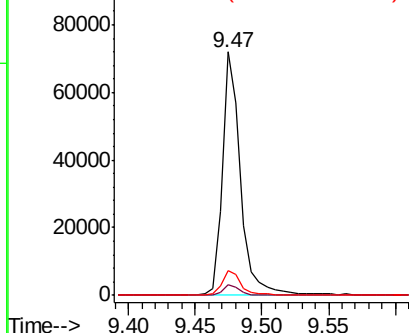
#50
Dimethylphthalate
Concen: 4.669 ng
RT: 9.47 min Scan# 1256
Delta R.T. -0.01 min
Lab File: BF119304.D
Acq: 10 Mar 2020 1:23

Instrument :
BNA_F
ClientSampled :

Tot Ion	Ratio	Lower	Upper
163	100		
194	4.5	3.5	5.3
164	10.3	8.4	12.6

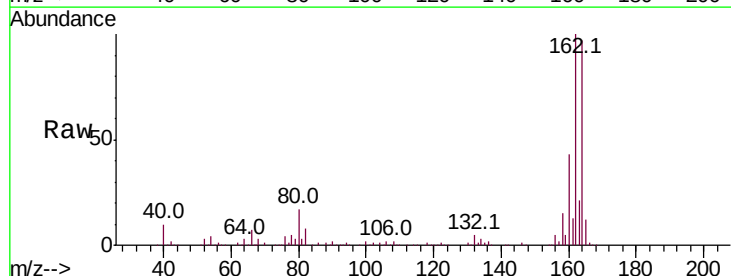


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

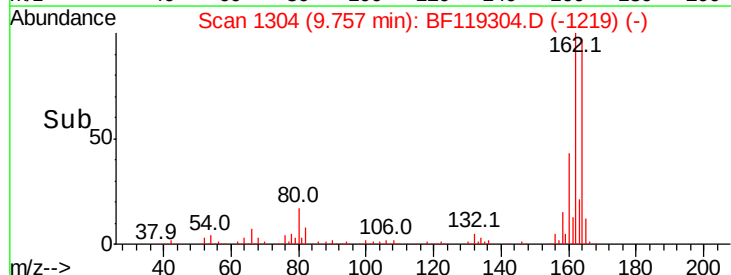
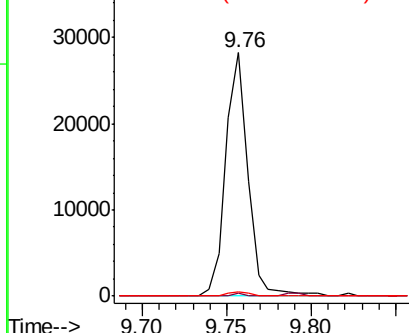


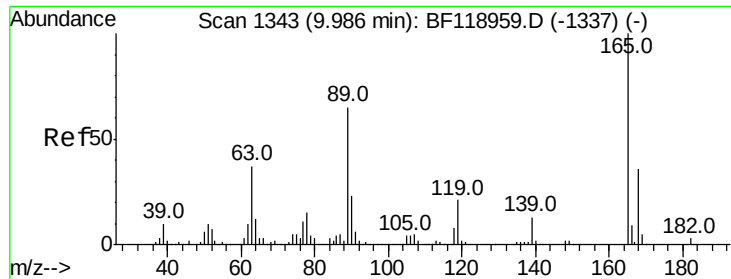
#51
2,6-Dinitrotoluene
Concen: 7.835 ng
RT: 9.76 min Scan# 1304
Delta R.T. 0.20 min
Lab File: BF119304.D
Acq: 10 Mar 2020 1:23

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.4	34.3	51.5#
89	1.7	38.3	57.5#



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

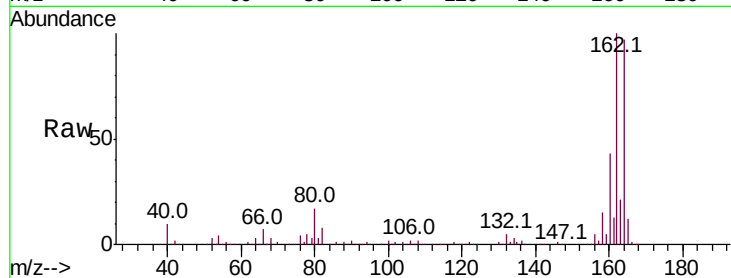




#57
 2,4-Dinitrotoluene
 Concen: 6.044 ng
 RT: 9.76 min Scan# 1304
 Delta R.T. -0.21 min
 Lab File: BF119304.D
 Acq: 10 Mar 2020 1:23

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
165	100		
63	1.4	42.3	63.5#
89	1.7	60.2	90.4#
182	0.0	2.3	3.5#

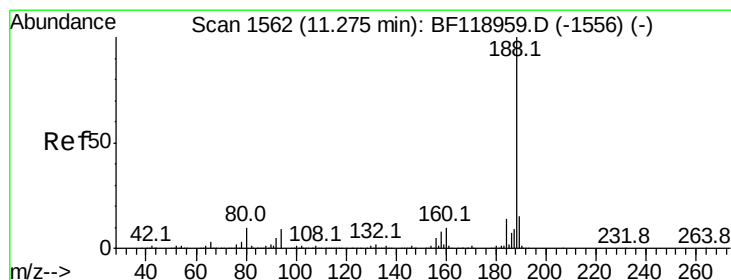
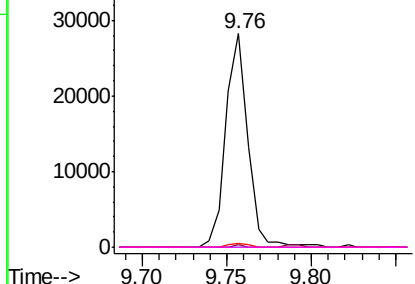
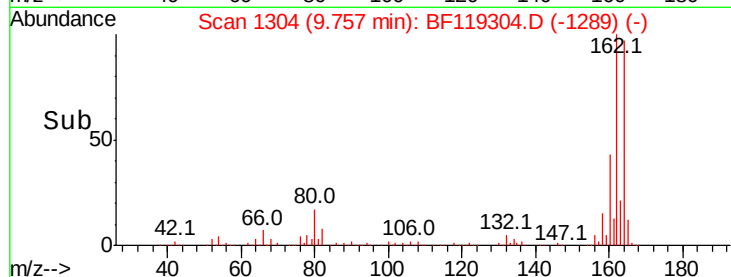


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

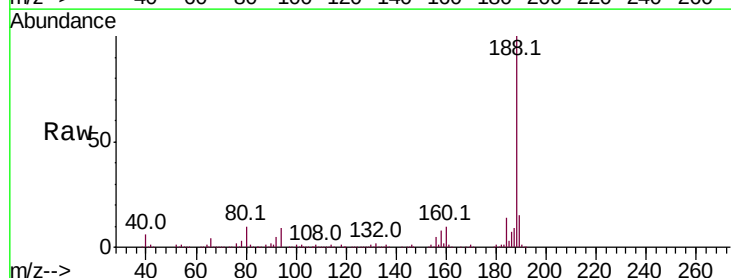
Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.24 min Scan# 1556
 Delta R.T. -0.01 min
 Lab File: BF119304.D
 Acq: 10 Mar 2020 1:23

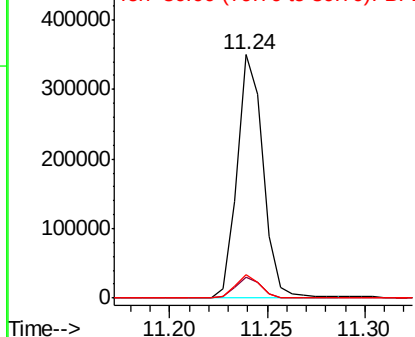
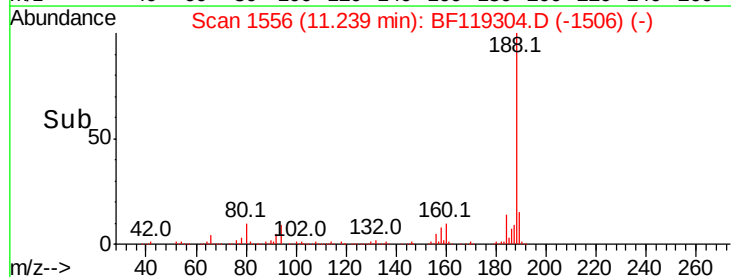
Tgt Ion	Ratio	Lower	Upper
188	100		
94	8.7	7.1	10.7
80	9.6	7.8	11.8

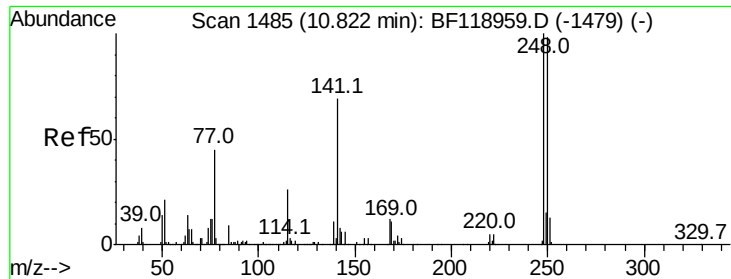


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

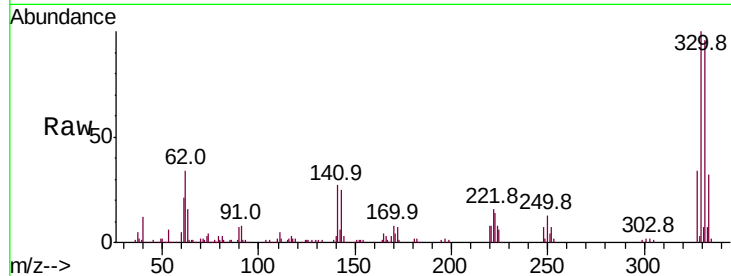




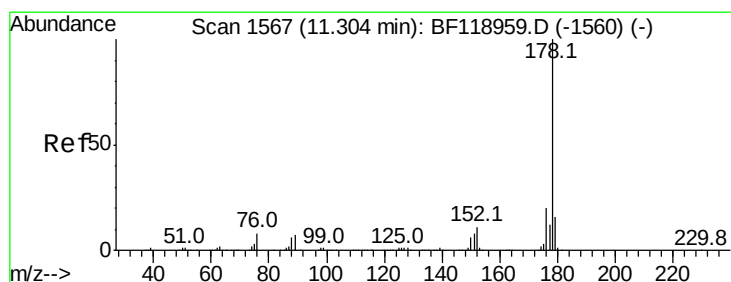
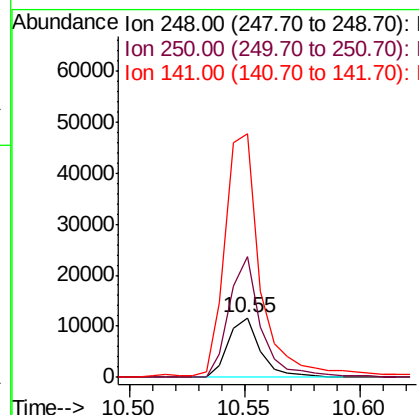
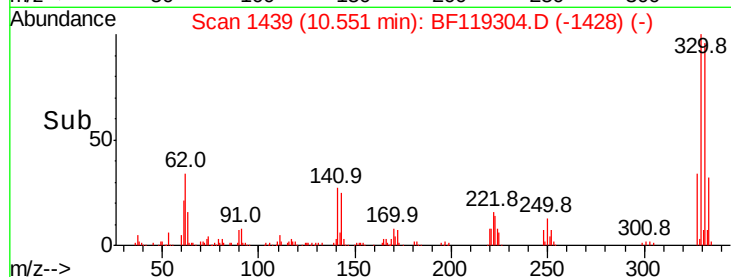
#67
 4-Bromophenyl-phenylether
 Concen: 2.692 ng
 RT: 10.55 min Scan# 1439
 Delta R.T. -0.24 min
 Lab File: BF119304.D
 Acq: 10 Mar 2020 1:23

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:248 Resp: 11413
 Ion Ratio Lower Upper
 248 100
 250 202.7 76.7 115.1#
 141 409.4 60.7 91.1#

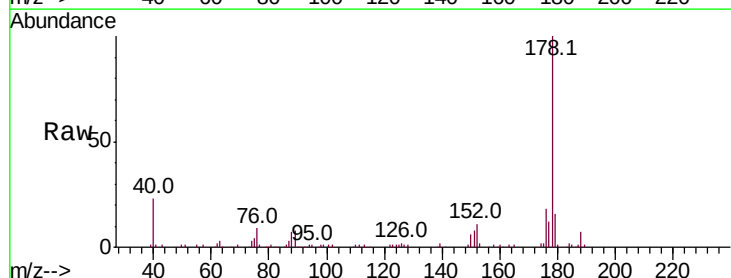


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

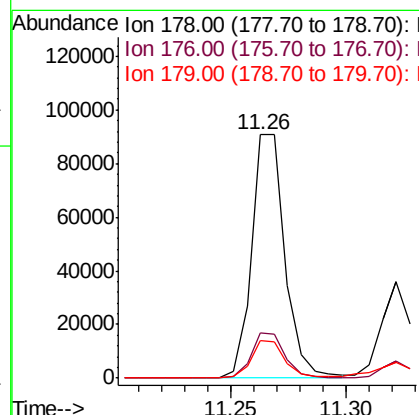
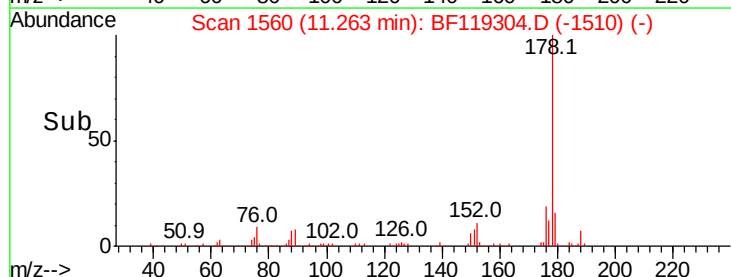


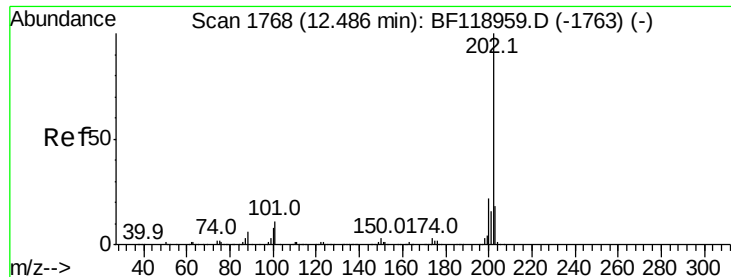
#71
 Phenanthrene
 Concen: 5.183 ng
 RT: 11.26 min Scan# 1560
 Delta R.T. -0.01 min
 Lab File: BF119304.D
 Acq: 10 Mar 2020 1:23

Tgt Ion:178 Resp: 91676
 Ion Ratio Lower Upper
 178 100
 176 18.5 16.5 24.7
 179 15.5 13.0 19.6



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: 8.743 ng

RT: 12.46 min Scan# 1763

Delta R.T. 0.00 min

Lab File: BF119304.D

Acq: 10 Mar 2020 1:23

Instrument :

BNA_F

ClientSampled :

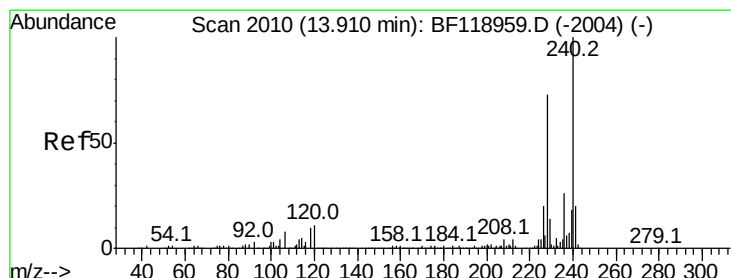
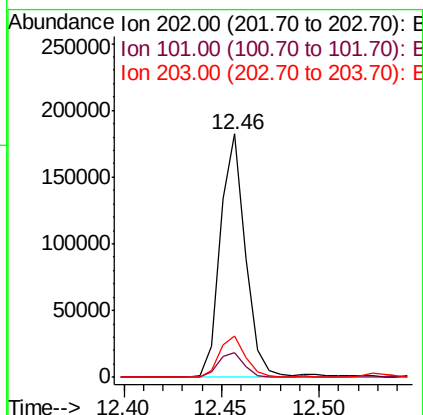
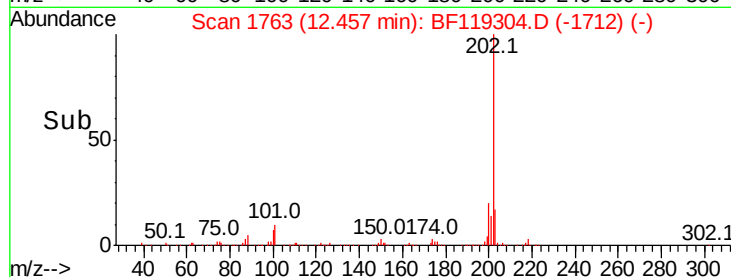
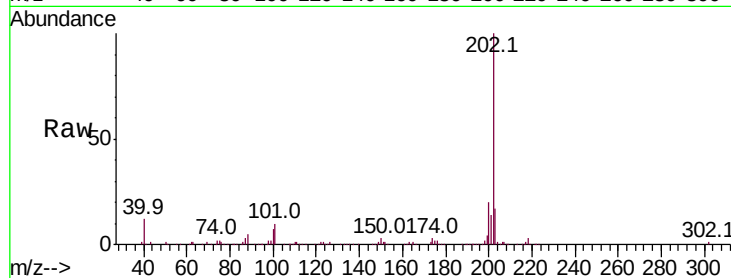
Tot Ion:202 Resp: 164136

Ion Ratio Lower Upper

202 100

101 10.2 0.0 30.3

203 17.2 0.0 38.4



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.88 min Scan# 2005

Delta R.T. -0.01 min

Lab File: BF119304.D

Acq: 10 Mar 2020 1:23

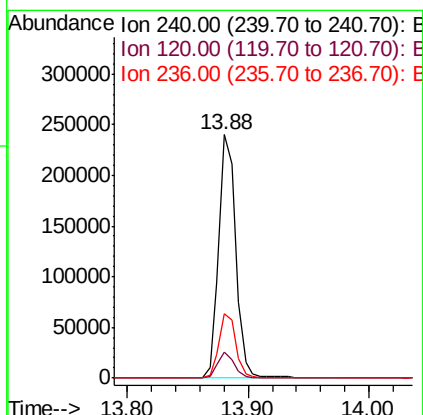
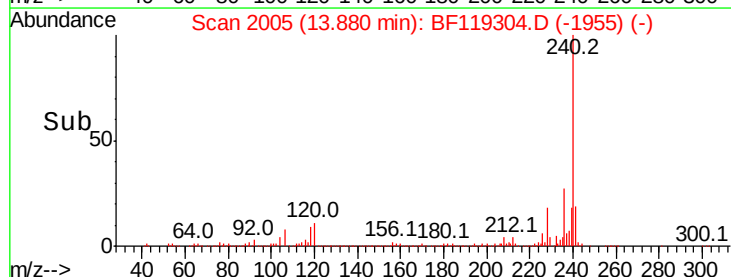
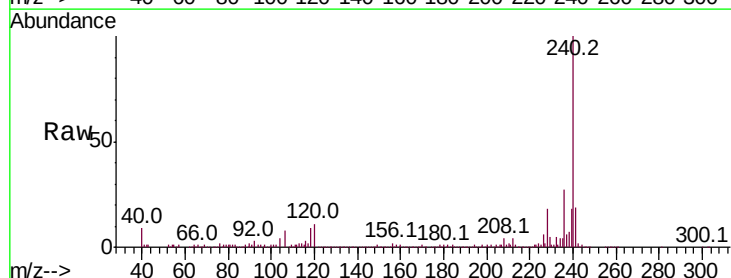
Tgt Ion:240 Resp: 234554

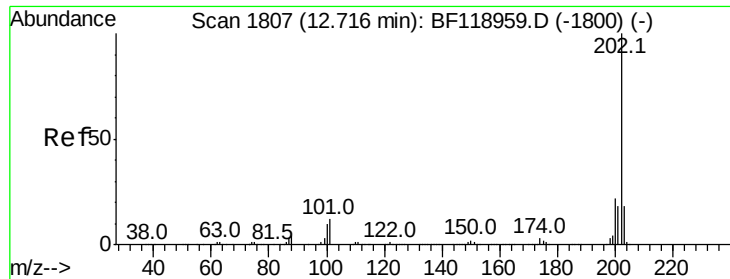
Ion Ratio Lower Upper

240 100

120 10.9 8.4 12.6

236 26.5 21.0 31.4

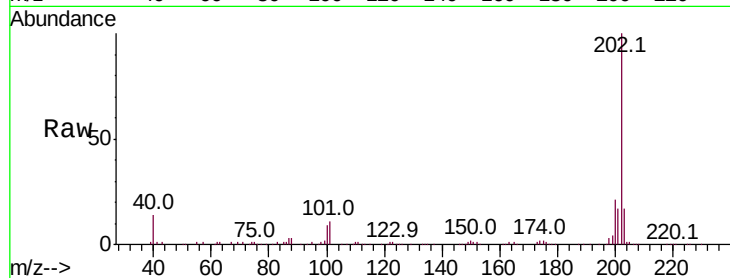




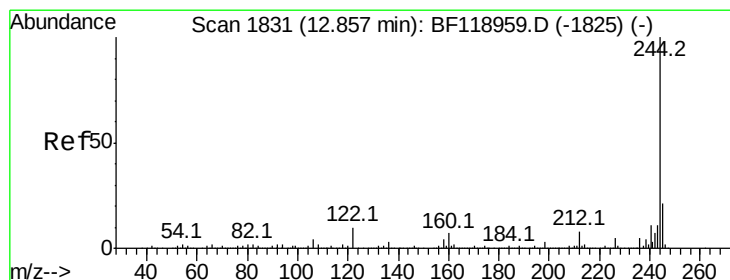
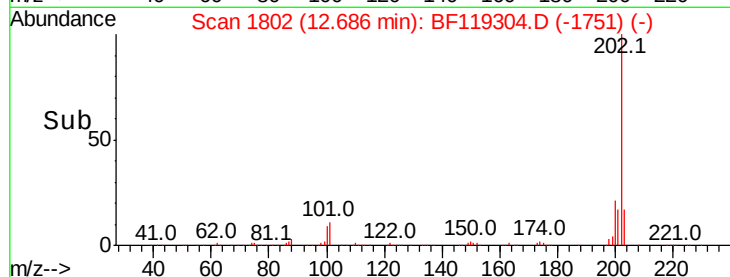
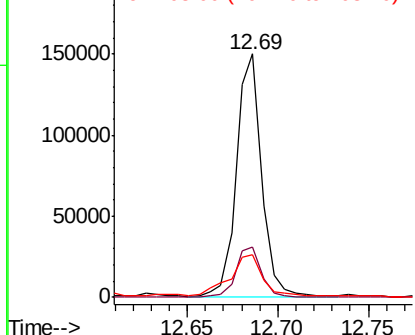
#78
Pvrene
Concen: 7.652 ng
RT: 12.69 min Scan# 1802
Delta R.T. 0.00 min
Lab File: BF119304.D
Acq: 10 Mar 2020 1:23

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
202	100		
200	20.6	18.0	27.0
203	17.5	14.6	22.0

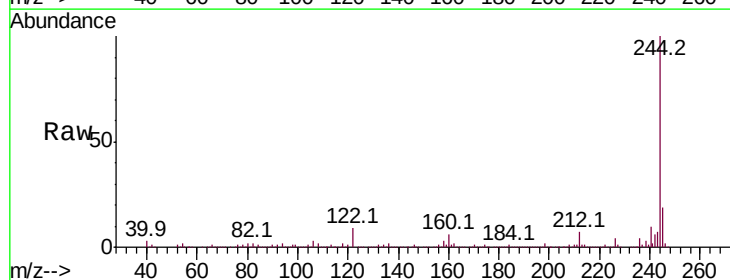


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

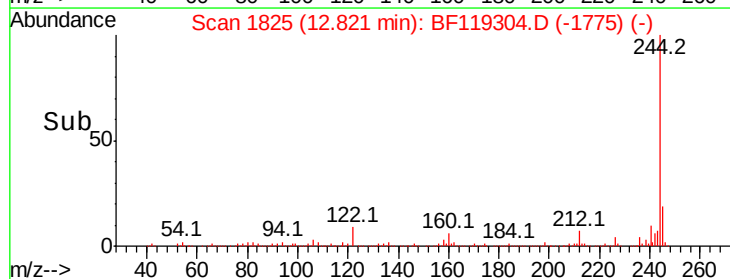
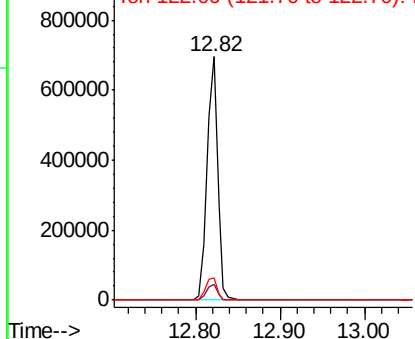


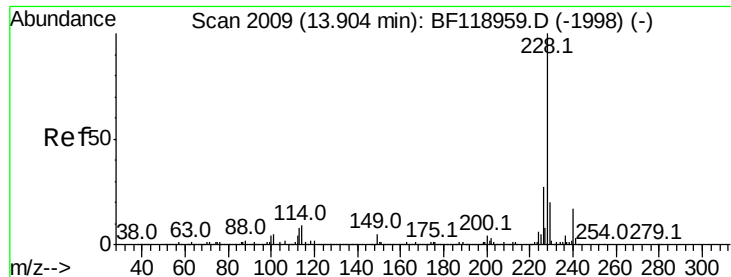
#79
Terphenyl-d14
Concen: 44.786 ng
RT: 12.82 min Scan# 1825
Delta R.T. -0.01 min
Lab File: BF119304.D
Acq: 10 Mar 2020 1:23

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.7	6.6	10.0
122	8.9	8.2	12.2



Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E





#81

Benzo(a)anthracene

Concen: 6.118 ng

RT: 13.87 min Scan# 2004

Delta R.T. 0.00 min

Lab File: BF119304.D

Acq: 10 Mar 2020 1:23

Instrument :

BNA_F

ClientSampleId :

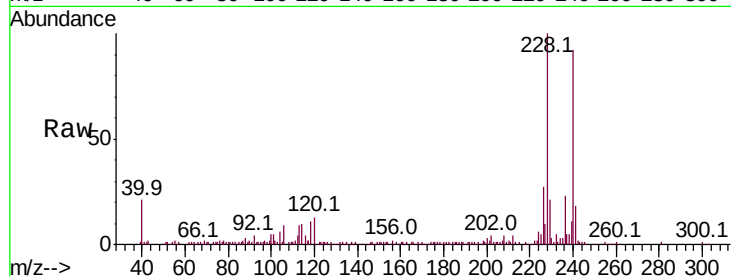
Tot Ion:228 Resp: 97779

Ion Ratio Lower Upper

228 100

226 27.1 22.6 33.8

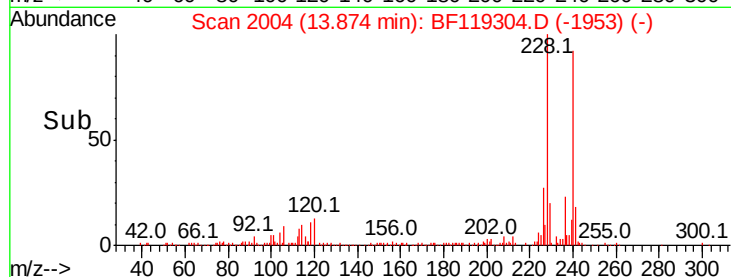
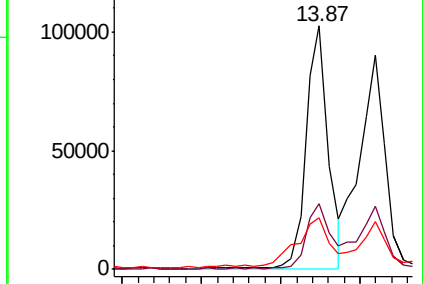
229 21.0 16.6 24.8



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: 6.455 ng

RT: 13.91 min Scan# 2010

Delta R.T. -0.01 min

Lab File: BF119304.D

Acq: 10 Mar 2020 1:23

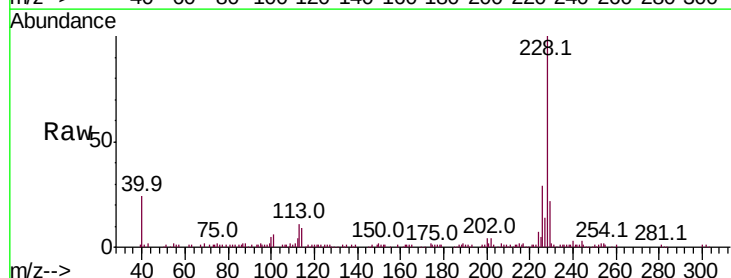
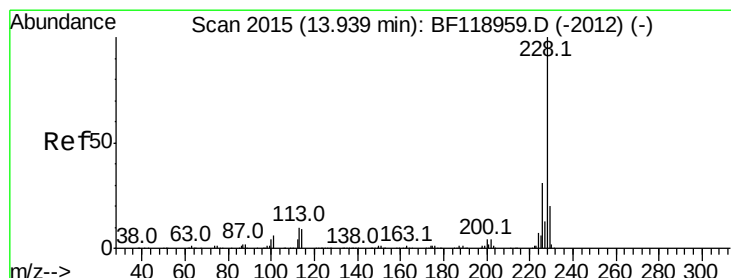
Tgt Ion:228 Resp: 102794

Ion Ratio Lower Upper

228 100

226 29.3 25.1 37.7

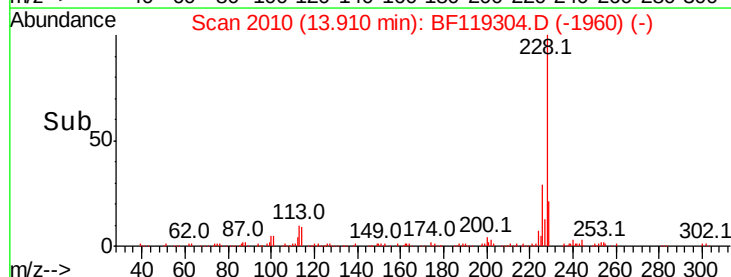
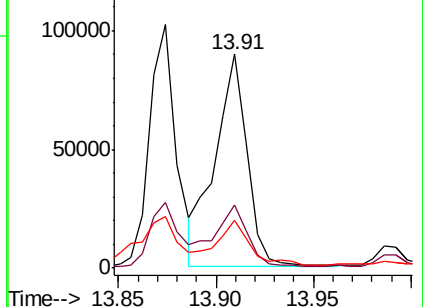
229 22.1 16.3 24.5

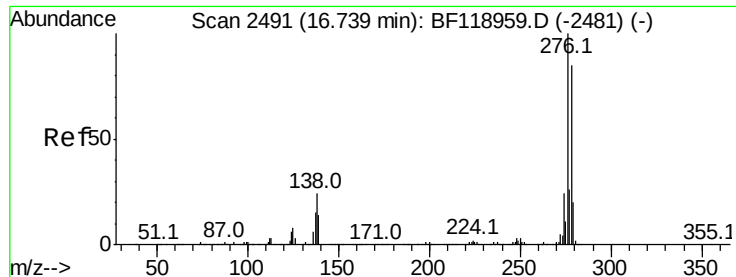


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

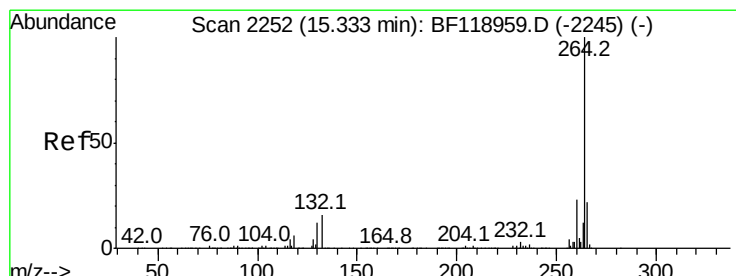
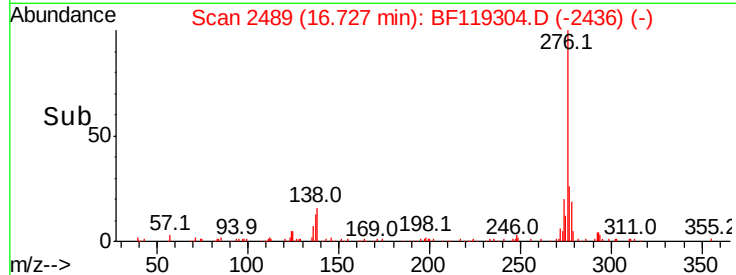
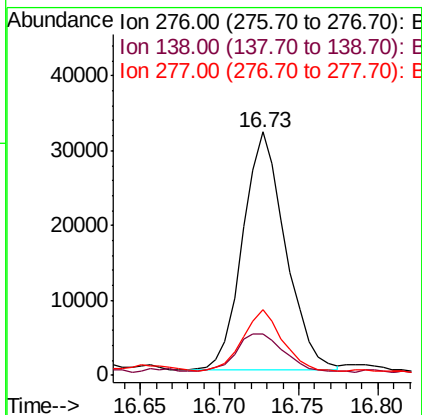
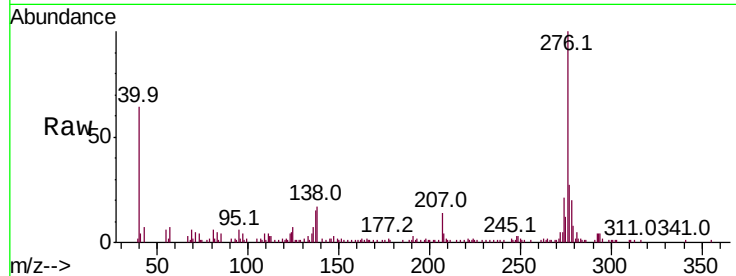




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 3.857 ng
 RT: 16.73 min Scan# 2489
 Delta R.T. 0.01 min
 Lab File: BF119304.D
 Acq: 10 Mar 2020 1:23

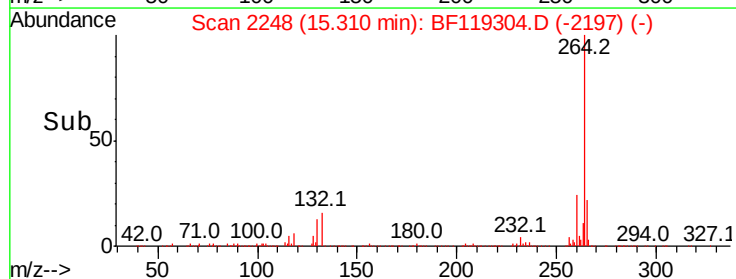
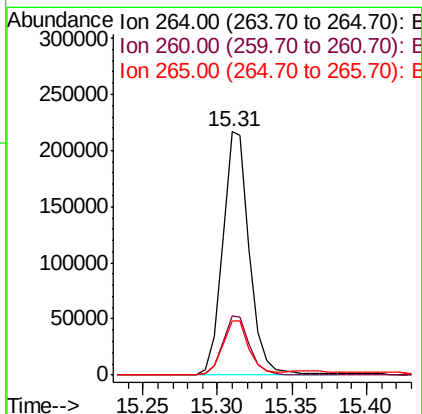
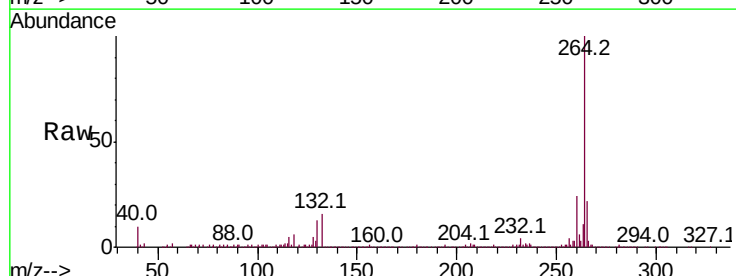
Instrument :
 BNA_F
 ClientSampleId :

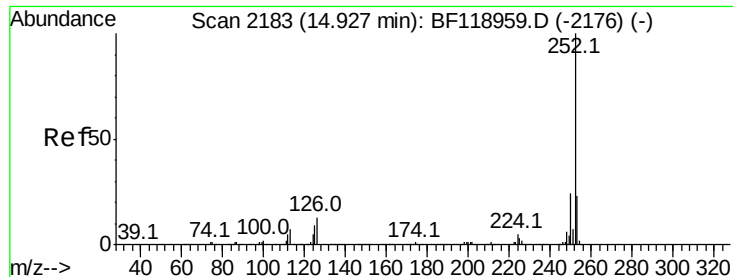
Tot Ion	Ratio	Lower	Upper
276	100		
138	18.2	17.4	26.0
277	24.5	20.3	30.5



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.31 min Scan# 2248
 Delta R.T. 0.00 min
 Lab File: BF119304.D
 Acq: 10 Mar 2020 1:23

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.4	29.2
265	22.3	17.7	26.5





#88

Benzo(b)fluoranthene

Concen: 13.293 ng

RT: 14.90 min Scan# 2179

Delta R.T. 0.00 min

Lab File: BF119304.D

Acq: 10 Mar 2020 1:23

Instrument :

BNA_F

ClientSampleId :

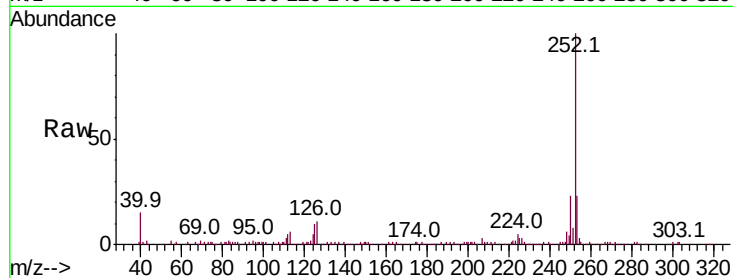
Tot Ion:252 Resp: 238342

Ion Ratio Lower Upper

252 100

253 22.5 18.1 27.1

125 9.5 7.4 11.0

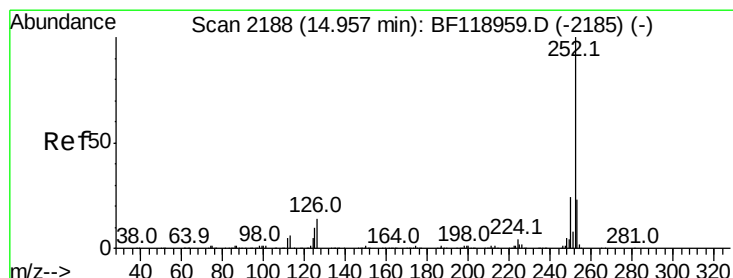
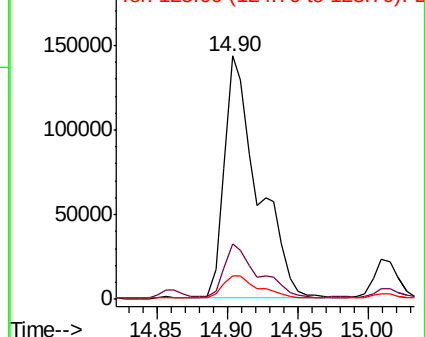
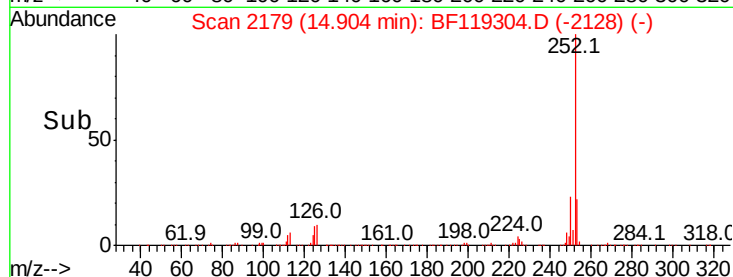


Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89

Benzo(k)fluoranthene

Concen: 14.344 ng

RT: 14.90 min Scan# 2179

Delta R.T. -0.03 min

Lab File: BF119304.D

Acq: 10 Mar 2020 1:23

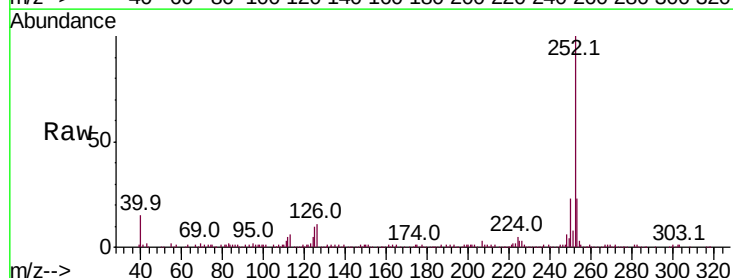
Tgt Ion:252 Resp: 238342

Ion Ratio Lower Upper

252 100

253 22.5 17.8 26.8

125 9.5 7.5 11.3

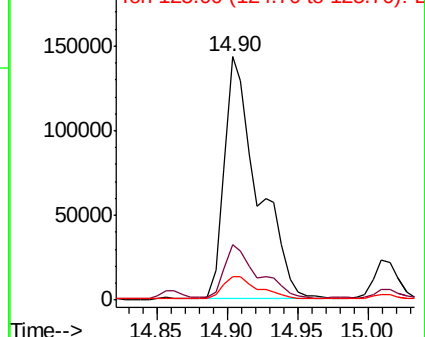
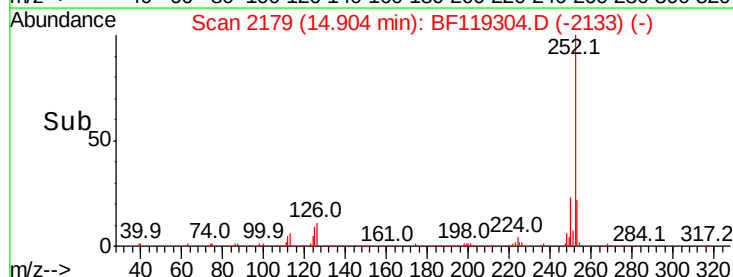


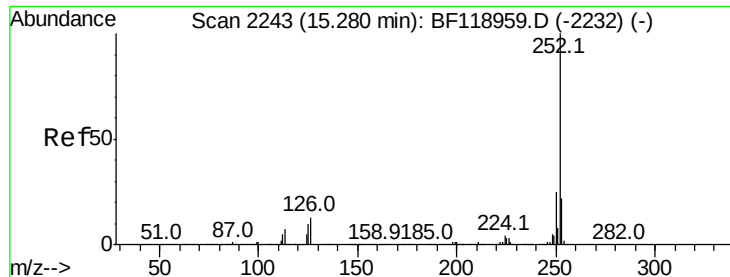
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

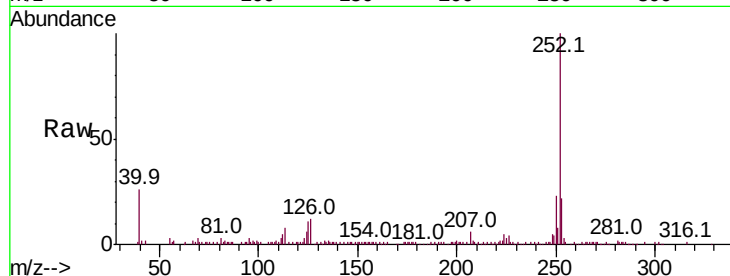




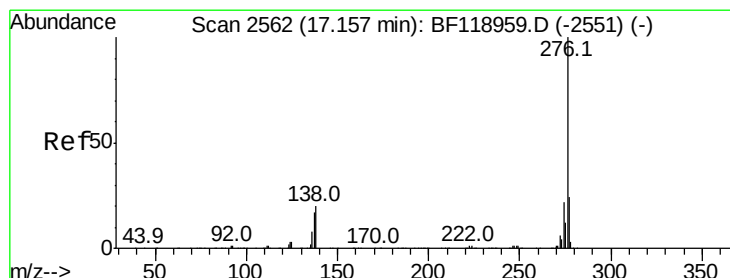
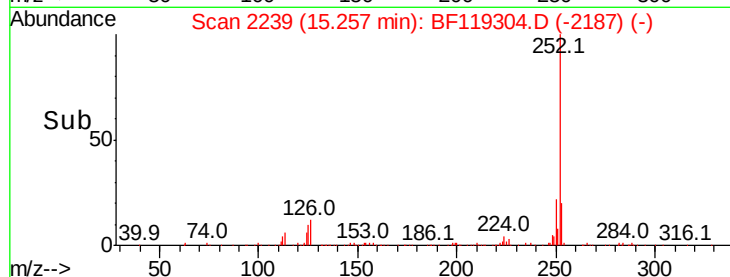
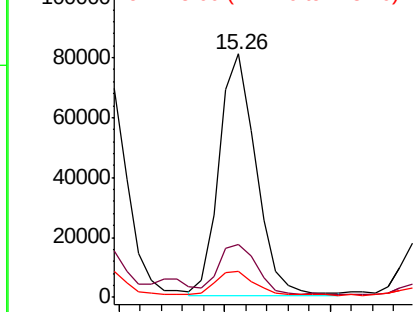
#90
Benzo(a)pyrene
Concen: 6.019 ng
RT: 15.26 min Scan# 2239
Delta R.T. 0.01 min
Lab File: BF119304.D
Acq: 10 Mar 2020 1:23

Instrument :
BNA_F
ClientSampled :

Tot Ion:252 Resp: 97401
Ion Ratio Lower Upper
252 100
253 21.8 18.0 27.0
125 10.7 8.6 12.8

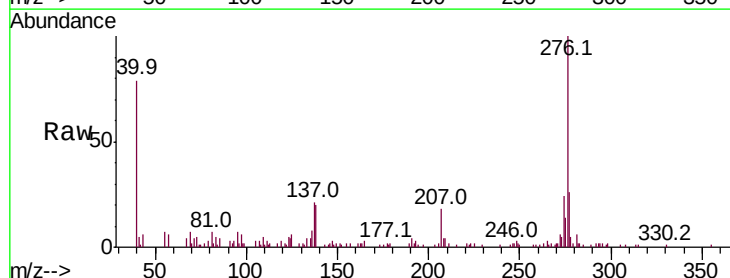


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#92
Benzo(g,h,i)perylene
Concen: 3.859 ng
RT: 17.15 min Scan# 2561
Delta R.T. 0.01 min
Lab File: BF119304.D
Acq: 10 Mar 2020 1:23

Tgt Ion:276 Resp: 54292
Ion Ratio Lower Upper
276 100
277 25.6 18.7 28.1
138 20.3 14.3 21.5



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 277.00 (276.70 to 277.70): E
Ion 138.00 (137.70 to 138.70): E

