

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073020\
 Data File : BF121142.D
 Acq On : 30 Jul 2020 22:23
 Operator : JU/CG
 Sample : L3436-21 5X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 21

Quant Time: Jul 31 00:34:11 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071620.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jul 29 14:55:43 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	138898	20.00	ng	0.00
21) Naphthalene-d8	8.08	136	530434	20.00	ng	0.00
39) Acenaphthene-d10	9.84	164	257744	20.00	ng	0.00
64) Phenanthrene-d10	11.33	188	437595	20.00	ng	0.00
76) Chrysene-d12	13.97	240	347893	20.00	ng	0.01
86) Perylene-d12	15.43	264	309257	20.00	ng	0.03

System Monitoring Compounds

5) 2-Fluorophenol	5.41	112	142073	16.77	ng	0.00
7) Phenol-d6	6.43	99	180975	16.54	ng	-0.01
23) Nitrobenzene-d5	7.36	82	103767	11.32	ng	-0.02
42) 2,4,6-Tribromophenol	10.63	330	40015	14.18	ng	0.00
45) 2-Fluorobiphenyl	9.16	172	221863	12.85	ng	0.00
79) Terphenyl-d14	12.91	244	198638	12.41	ng	0.00

Target Compounds

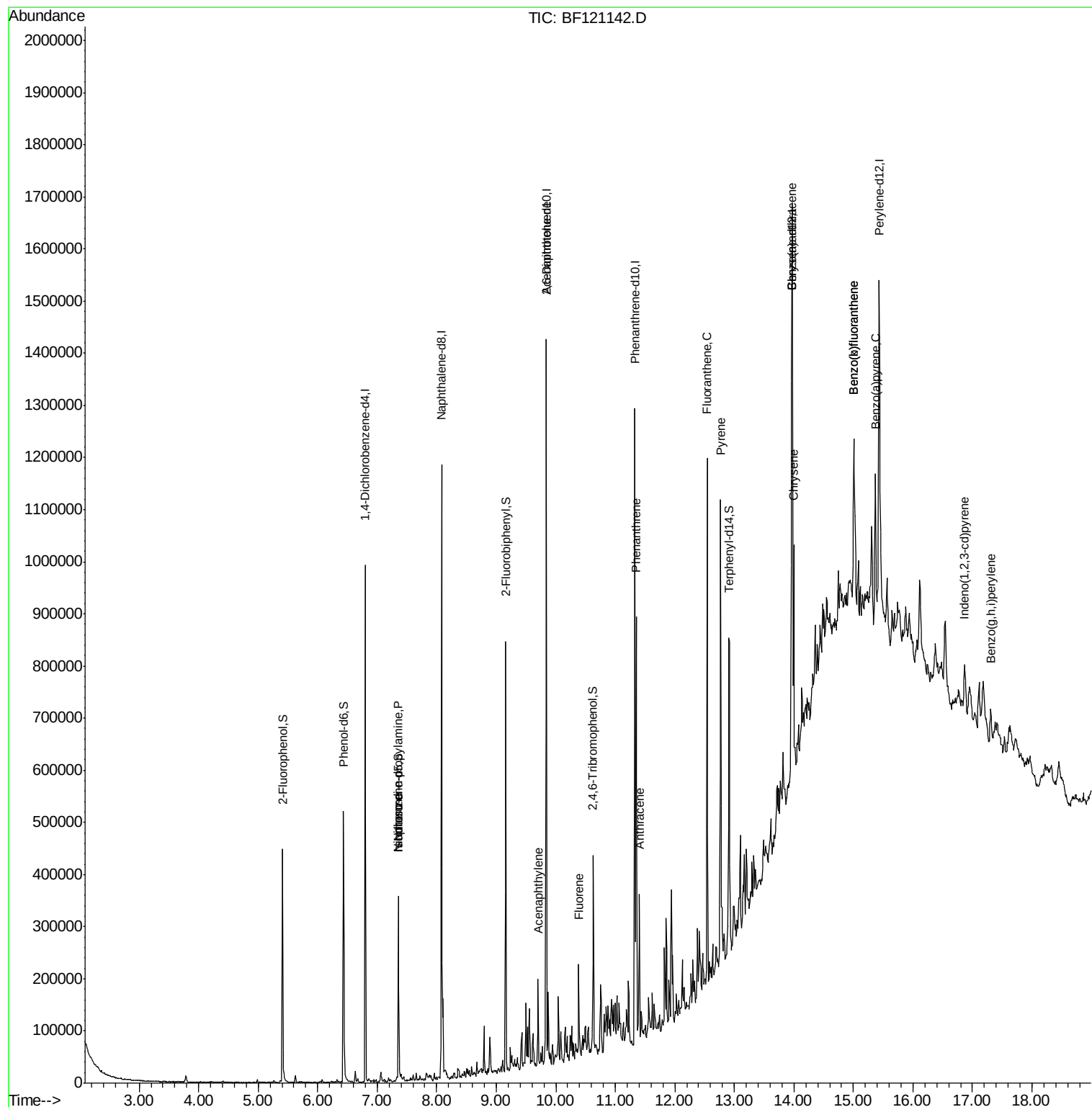
						Qvalue
9) Benzaldehyde	6.35	77	380	Below Cal	#	1
19) n-Nitroso-di-n-propylamine	7.36	70	13961	2.243 ng	#	79
25) Isophorone	7.36	82	100551	5.496 ng	#	62
49) Acenaphthylene	9.70	152	58374	2.344 ng		98
51) 2,6-Dinitrotoluene	9.84	165	35816	8.965 ng	#	27
58) Fluorene	10.39	166	45172	2.645 ng		99
71) Phenanthrene	11.35	178	276273	12.276 ng		99
72) Anthracene	11.40	178	98551	4.361 ng		100
75) Fluoranthene	12.54	202	407589	16.339 ng		100
78) Pyrene	12.77	202	411324	16.723 ng		98
81) Benzo(a)anthracene	13.96	228	178398	8.468 ng		93
83) Chrysene	14.00	228	177347	8.011 ng		97
87) Indeno(1,2,3-cd)pyrene	16.87	276	65479	3.044 ng		98
88) Benzo(b)fluoranthene	15.01	252	244916	13.102 ng	#	92
89) Benzo(k)fluoranthene	15.01	252	244916	14.366 ng	#	92
90) Benzo(a)pyrene	15.37	252	130601	7.658 ng	#	94
92) Benzo(a,h,i)perylene	17.31	276	60090	3.469 ng		92

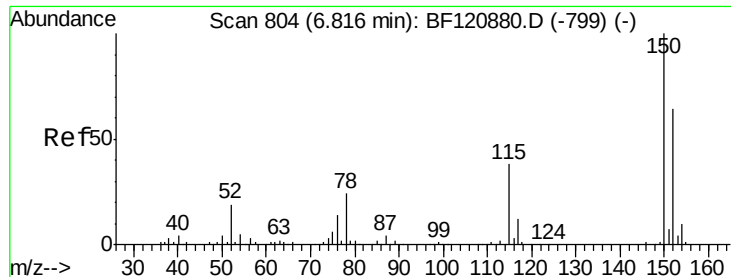
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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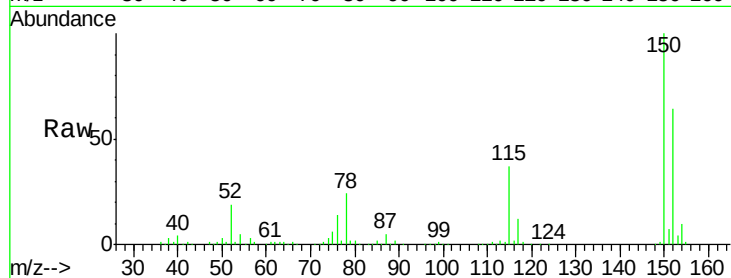


#1

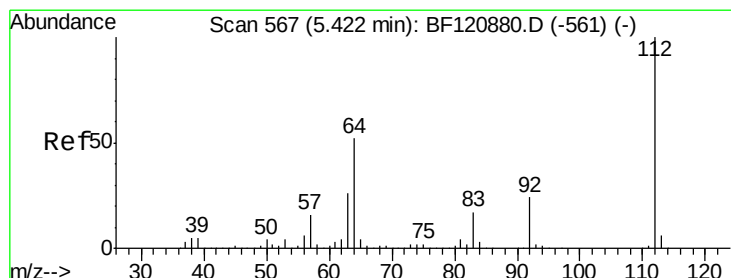
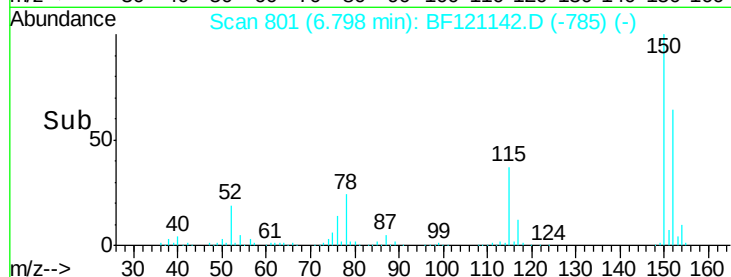
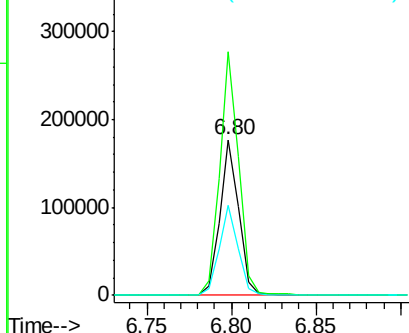
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.80 min Scan# 801
Delta R.T. -0.01 min
Lab File: BF121142.D
Acq: 30 Jul 2020 22:23

Instrument :
BNA_F
ClientSampleId :
21

Tot Ion:152 Resp: 138898
Ion Ratio Lower Upper
152 100
150 156.3 125.6 188.4
115 57.8 46.2 69.2



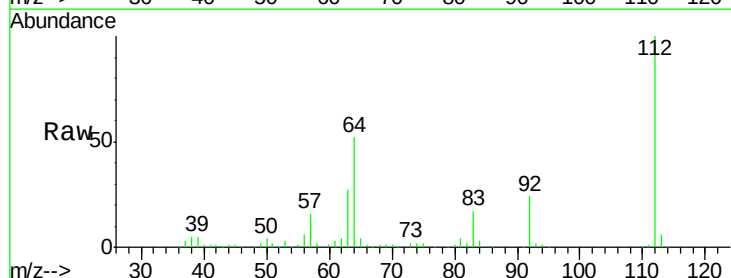
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



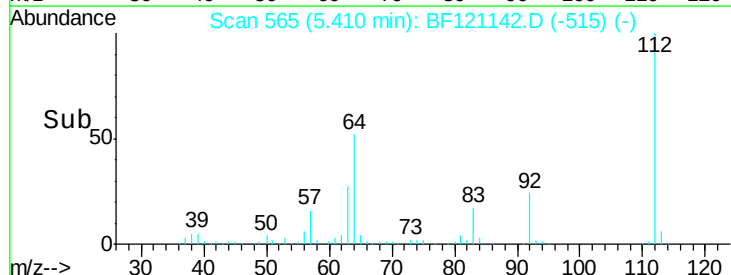
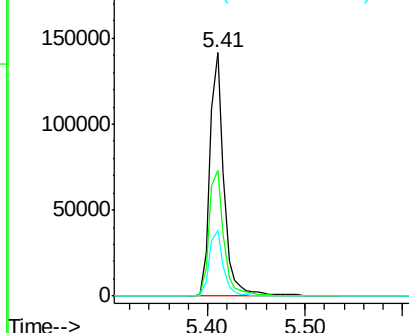
#5

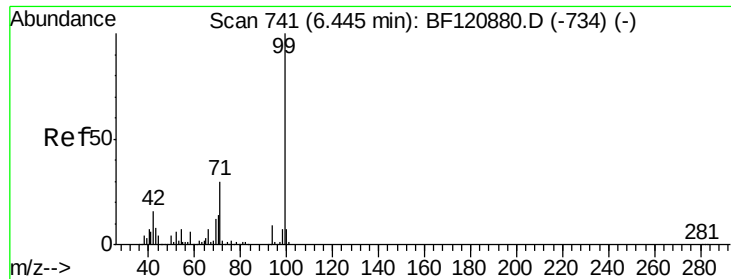
2-Fluorophenol
Concen: 16.768 ng
RT: 5.41 min Scan# 565
Delta R.T. -0.01 min
Lab File: BF121142.D
Acq: 30 Jul 2020 22:23

Tgt Ion:112 Resp: 142073
Ion Ratio Lower Upper
112 100
64 51.9 43.9 65.9
63 26.8 22.7 34.1



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF1
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 16.536 ng

RT: 6.43 min Scan# 739

Delta R.T. -0.01 min

Lab File: BF121142.D

Acq: 30 Jul 2020 22:23

Instrument :

BNA_F

ClientSampled :

21

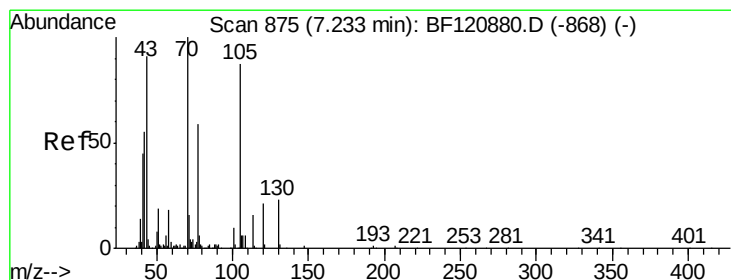
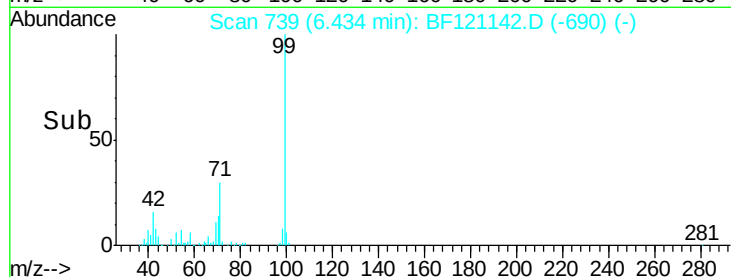
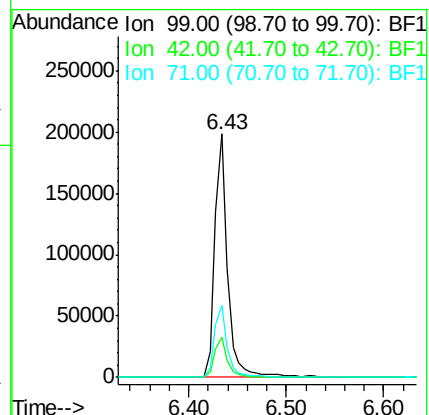
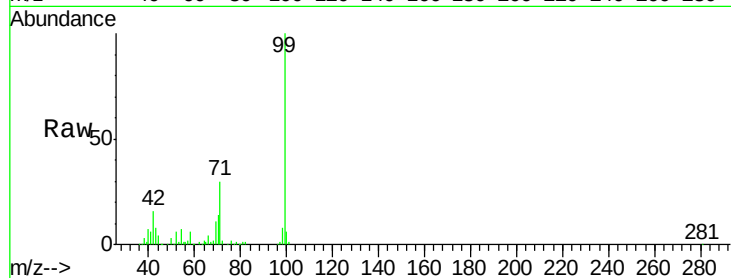
Tot Ion: 99 Resp: 180975

Ion Ratio Lower Upper

99 100

42 16.3 13.5 20.3

71 29.8 25.0 37.4



#19

n-Nitroso-di-n-propylamine

Concen: 2.243 ng

RT: 7.36 min Scan# 896

Delta R.T. 0.13 min

Lab File: BF121142.D

Acq: 30 Jul 2020 22:23

Tgt Ion: 70 Resp: 13961

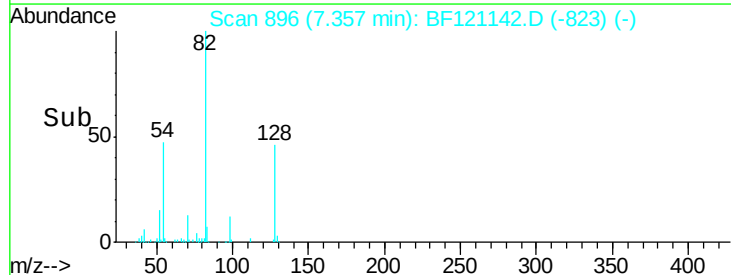
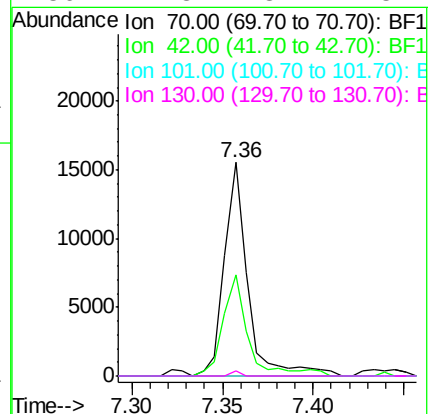
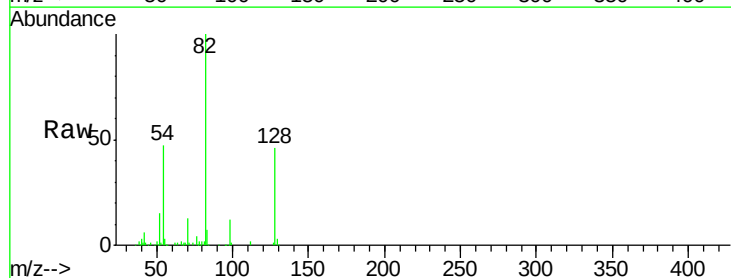
Ion Ratio Lower Upper

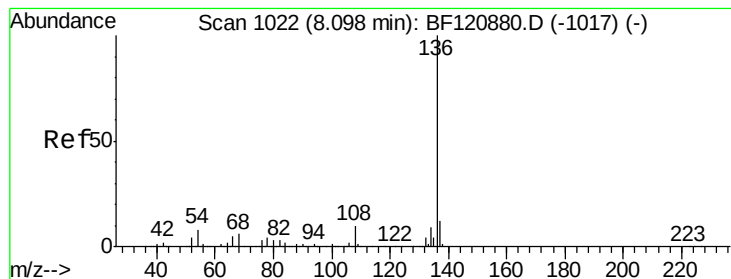
70 100

42 47.4 43.3 64.9

101 0.0 8.4 12.6#

130 2.3 18.7 28.1#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.08 min Scan# 1019

Delta R.T. -0.01 min

Lab File: BF121142.D

Acq: 30 Jul 2020 22:23

Instrument :

BNA_F

ClientSampleId :

21

Tot Ion:136 Resp: 530434

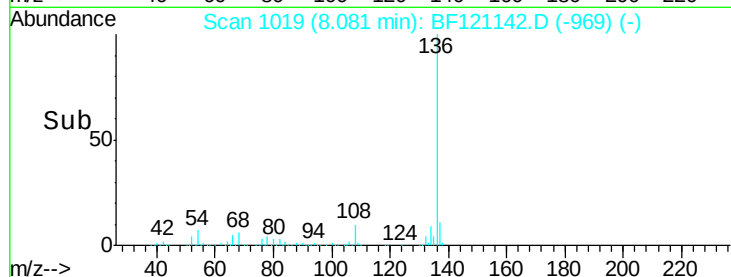
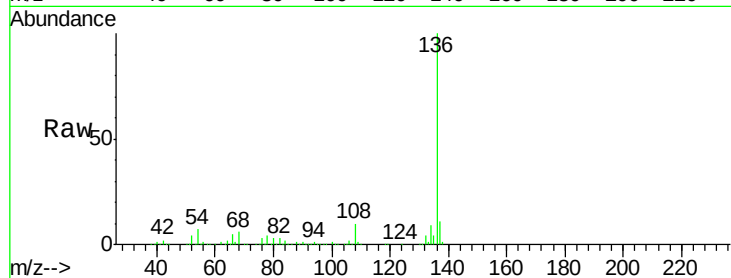
Ion Ratio Lower Upper

136 100

137 11.2 9.0 13.4

54 7.4 6.1 9.1

68 6.4 5.0 7.6

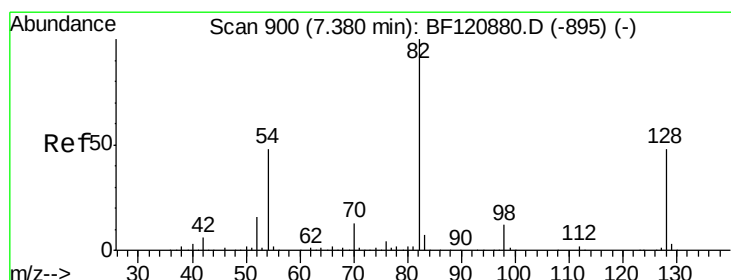
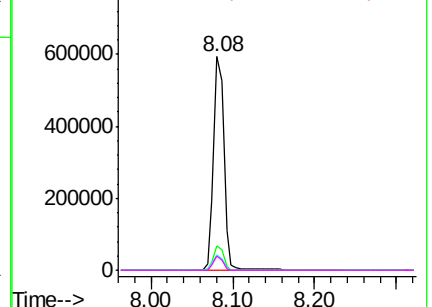


Abundance Ion 136.00 (135.70 to 136.70): E

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: 11.320 ng

RT: 7.36 min Scan# 896

Delta R.T. -0.02 min

Lab File: BF121142.D

Acq: 30 Jul 2020 22:23

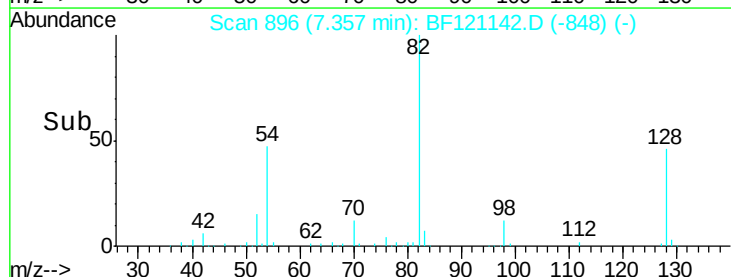
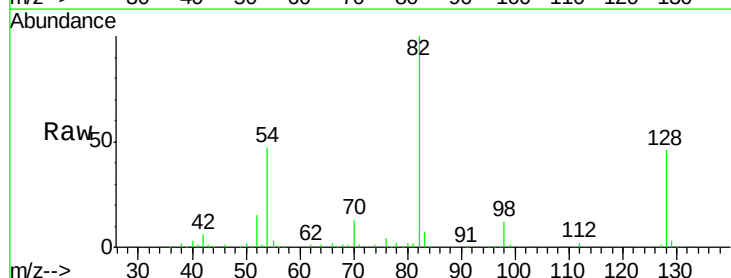
Tgt Ion: 82 Resp: 103767

Ion Ratio Lower Upper

82 100

128 46.2 39.2 58.8

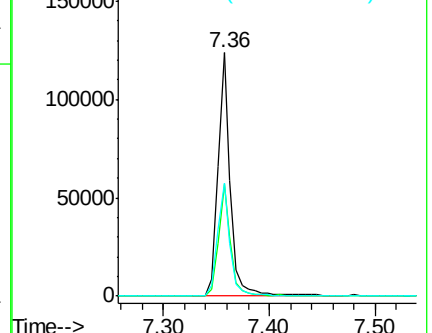
54 46.7 37.8 56.8

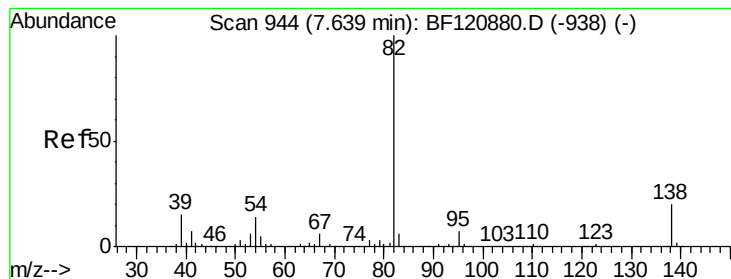


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 5.496 ng

RT: 7.36 min Scan# 896

Delta R.T. -0.28 min

Lab File: BF121142.D

Acq: 30 Jul 2020 22:23

Instrument :

BNA_F

ClientSampleId :

21

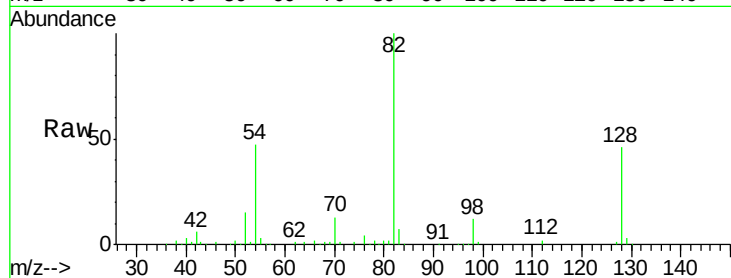
Tot Ion: 82 Resp: 100551

Ion Ratio Lower Upper

82 100

95 0.3 5.5 8.3#

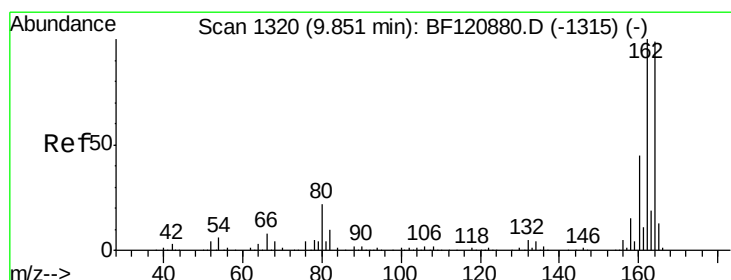
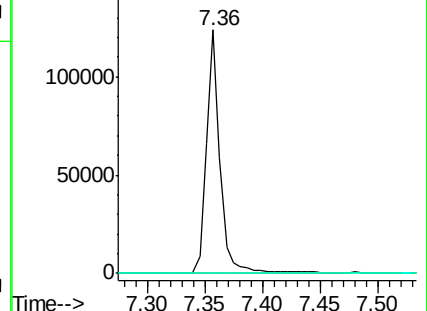
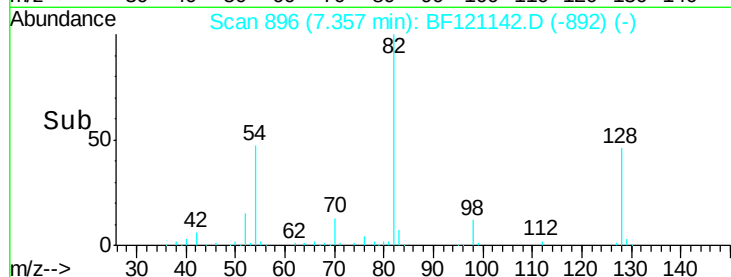
138 0.0 16.2 24.2#



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: 9.84 min Scan# 1318

Delta R.T. -0.00 min

Lab File: BF121142.D

Acq: 30 Jul 2020 22:23

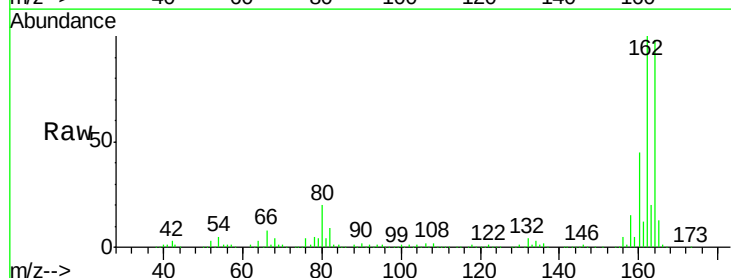
Tgt Ion: 164 Resp: 257744

Ion Ratio Lower Upper

164 100

162 101.9 82.2 123.2

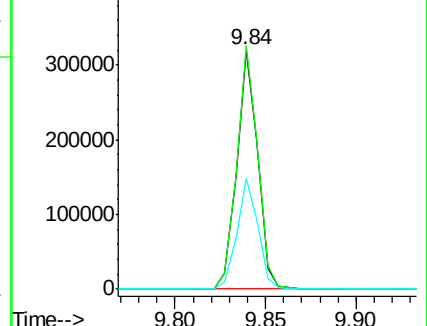
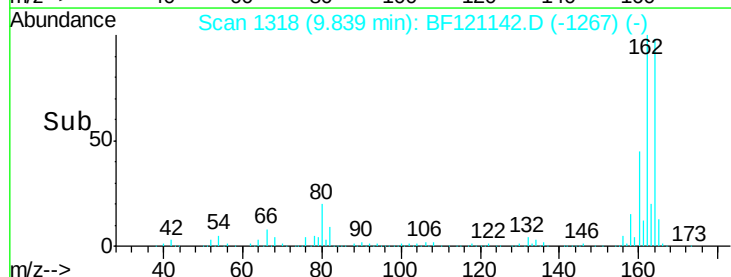
160 46.1 37.2 55.8

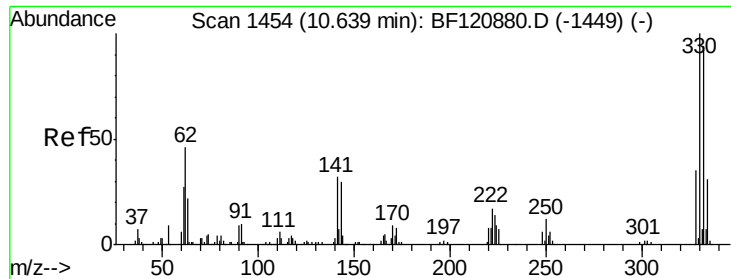


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#42

2,4,6-Tribromophenol

Concen: 14.183 ng

RT: 10.63 min Scan# 1452

Delta R.T. -0.01 min

Lab File: BF121142.D

Acq: 30 Jul 2020 22:23

Instrument :

BNA_F

ClientSampled :

21

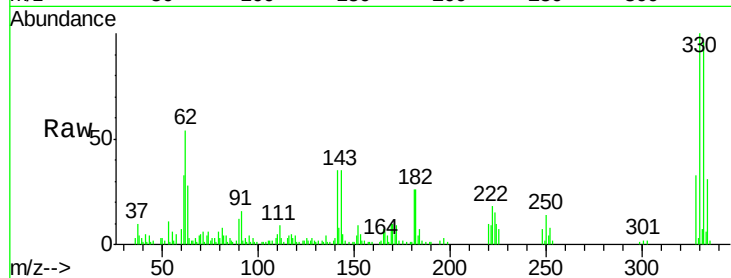
Tot Ion:330 Resp: 40015

Ion Ratio Lower Upper

330 100

332 95.1 76.1 114.1

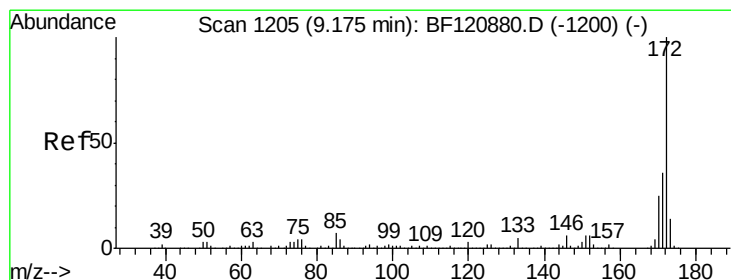
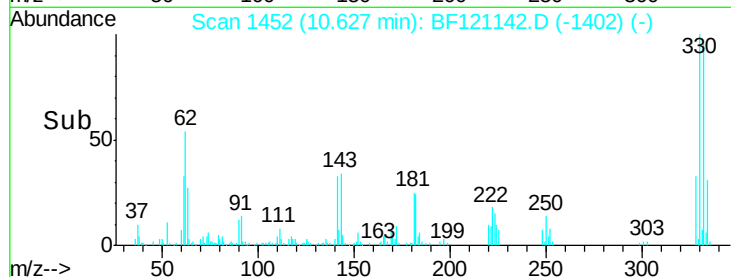
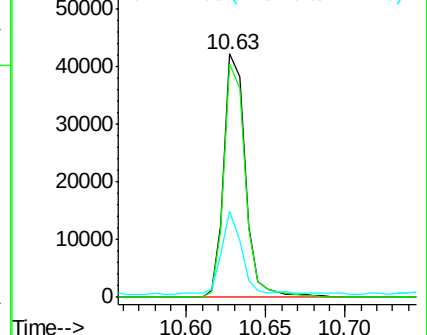
141 31.7 24.1 36.1



Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45

2-Fluorobiphenyl

Concen: 12.852 ng

RT: 9.16 min Scan# 1202

Delta R.T. -0.01 min

Lab File: BF121142.D

Acq: 30 Jul 2020 22:23

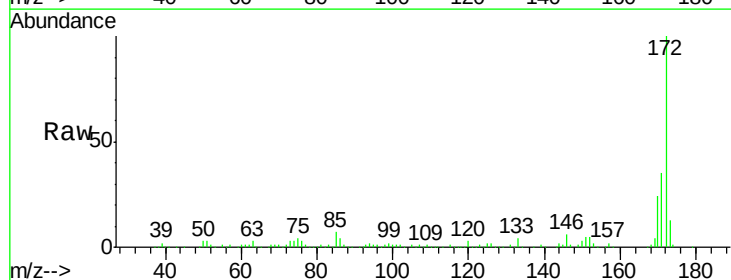
Tgt Ion:172 Resp: 221863

Ion Ratio Lower Upper

172 100

171 34.9 29.0 43.4

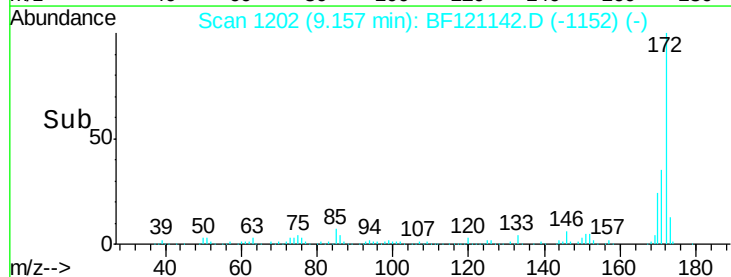
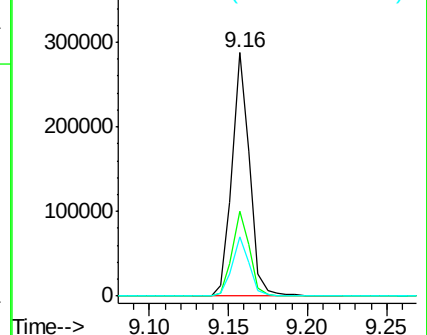
170 24.4 19.6 29.4

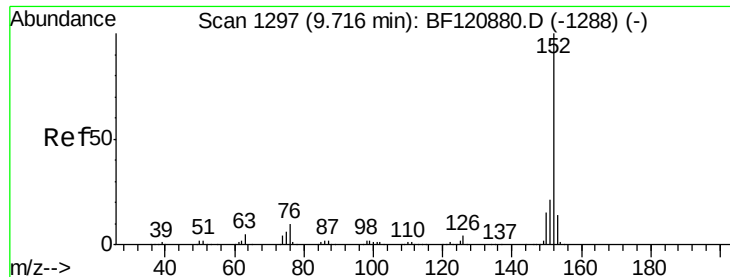


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#49

Acenaphthylene

Concen: 2.344 ng

RT: 9.70 min Scan# 1294

Delta R.T. -0.01 min

Lab File: BF121142.D

Acq: 30 Jul 2020 22:23

Instrument :

BNA_F

ClientSampleId :

21

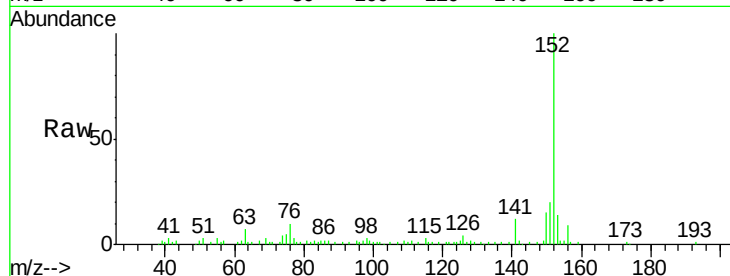
Tot Ion:152 Resp: 58374

Ion Ratio Lower Upper

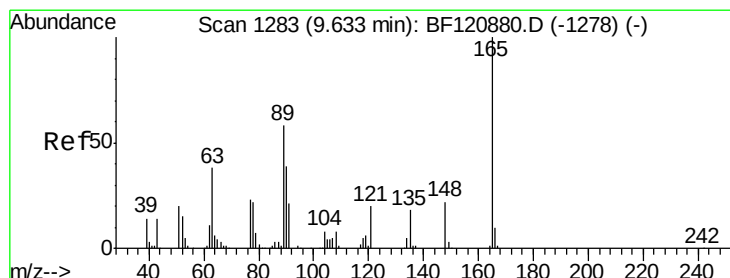
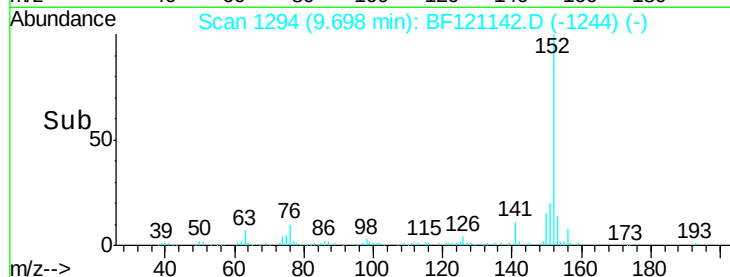
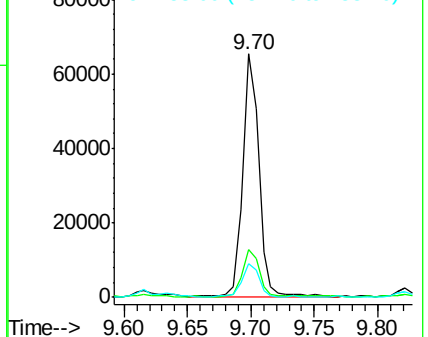
152 100

151 19.6 16.6 25.0

153 14.0 11.0 16.4



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



#51

2,6-Dinitrotoluene

Concen: 8.965 ng

RT: 9.84 min Scan# 1318

Delta R.T. 0.21 min

Lab File: BF121142.D

Acq: 30 Jul 2020 22:23

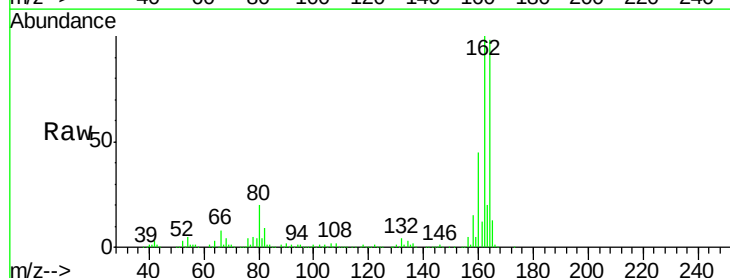
Tgt Ion:165 Resp: 35816

Ion Ratio Lower Upper

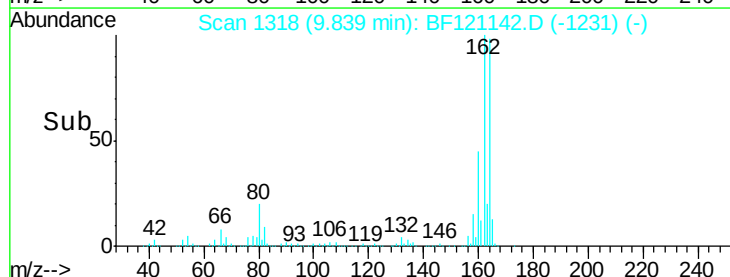
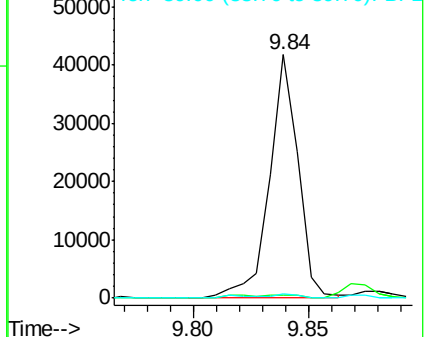
165 100

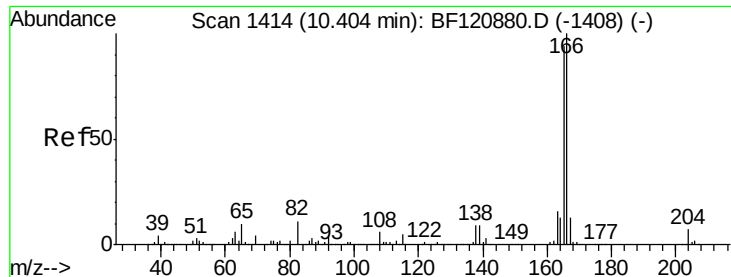
63 1.1 41.1 61.7#

89 1.5 43.5 65.3#



Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 89.00 (88.70 to 89.70): BF1

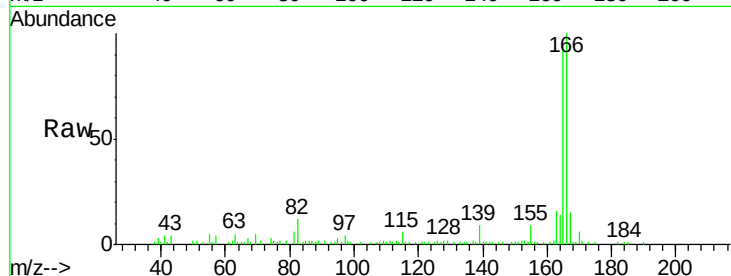




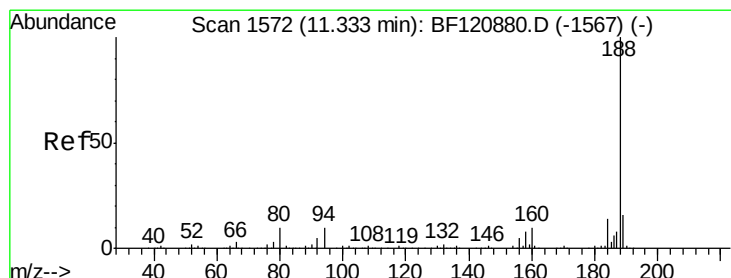
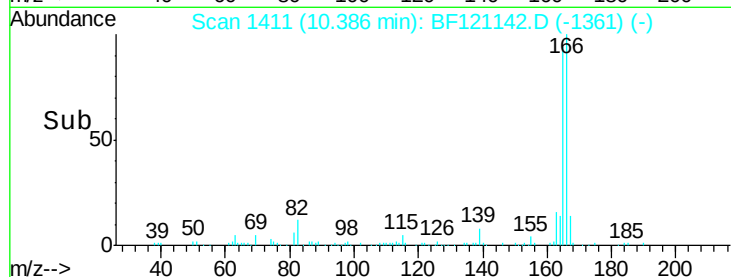
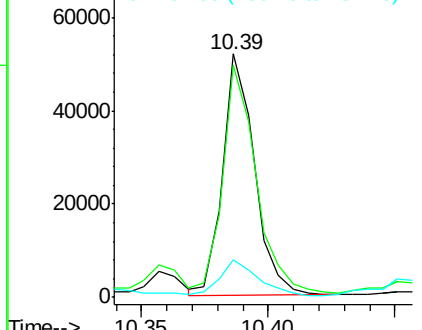
#58
 Fluorene
 Concen: 2.645 ng
 RT: 10.39 min Scan# 1411
 Delta R.T. -0.01 min
 Lab File: BF121142.D
 Acq: 30 Jul 2020 22:23

Instrument :
 BNA_F
 ClientSampleId :
 21

Tot Ion:166 Resp: 45172
 Ion Ratio Lower Upper
 166 100
 165 95.5 76.4 114.6
 167 15.2 10.7 16.1

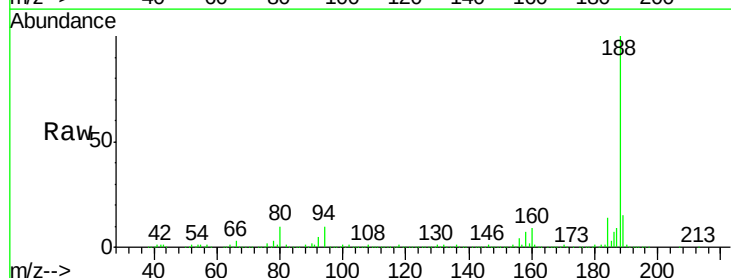


Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E

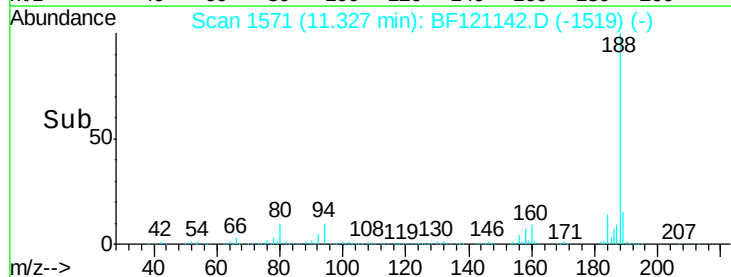
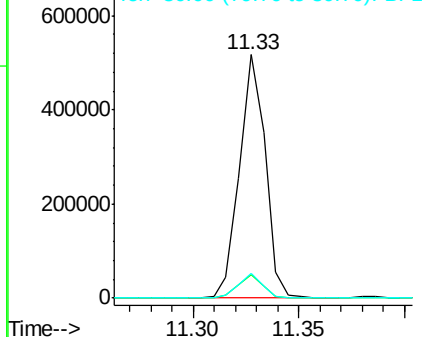


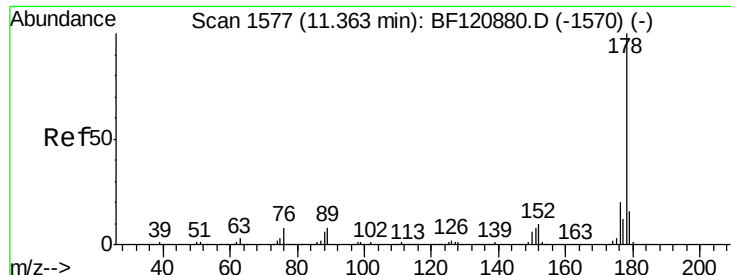
#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.33 min Scan# 1571
 Delta R.T. 0.01 min
 Lab File: BF121142.D
 Acq: 30 Jul 2020 22:23

Tgt Ion:188 Resp: 437595
 Ion Ratio Lower Upper
 188 100
 94 9.8 8.0 12.0
 80 10.2 8.3 12.5



Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BF1
 Ion 80.00 (79.70 to 80.70): BF1





#71

Phenanthrene

Concen: 12.276 ng

RT: 11.35 min Scan# 1575

Delta R.T. -0.00 min

Lab File: BF121142.D

Acq: 30 Jul 2020 22:23

Instrument :

BNA_F

ClientSampleId :

21

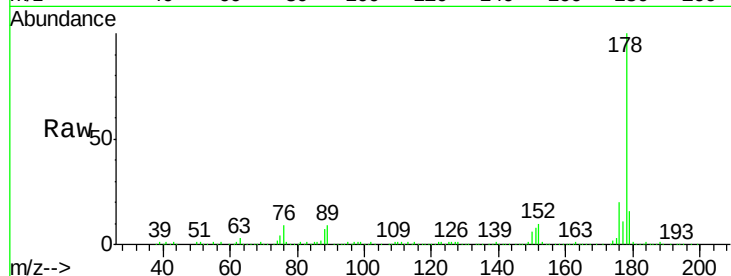
Tot Ion:178 Resp: 276273

Ion Ratio Lower Upper

178 100

176 19.8 16.2 24.2

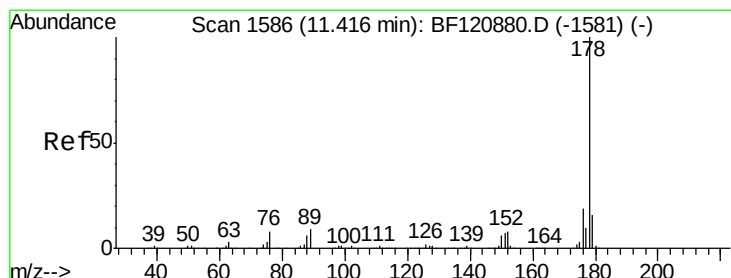
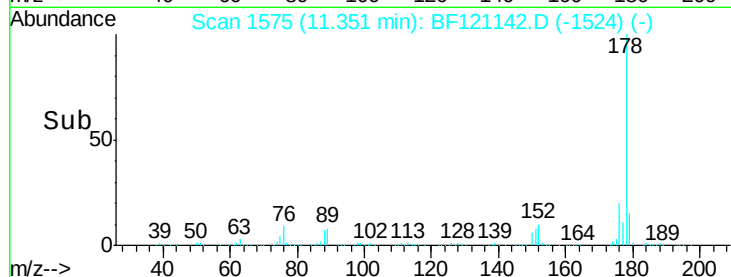
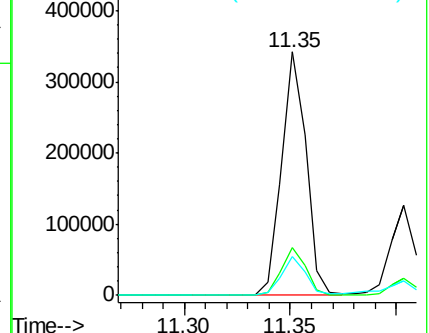
179 15.9 12.6 19.0



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Anthracene

Concen: 4.361 ng

RT: 11.40 min Scan# 1584

Delta R.T. -0.00 min

Lab File: BF121142.D

Acq: 30 Jul 2020 22:23

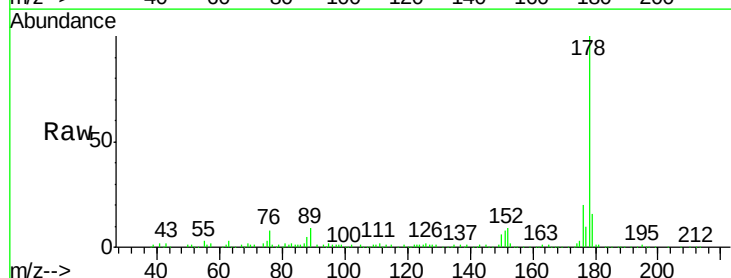
Tgt Ion:178 Resp: 98551

Ion Ratio Lower Upper

178 100

176 19.6 15.8 23.8

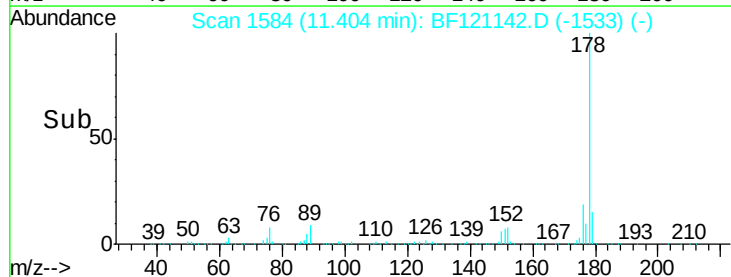
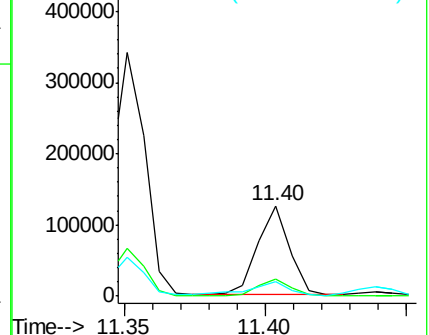
179 16.0 12.6 19.0

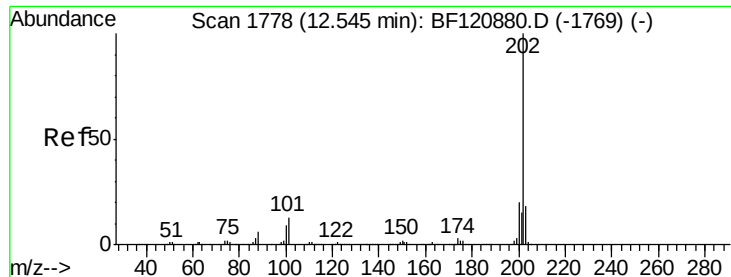


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 16.339 ng

RT: 12.54 min Scan# 1778

Delta R.T. 0.01 min

Lab File: BF121142.D

Acq: 30 Jul 2020 22:23

Instrument :

BNA_F

ClientSampleId :

21

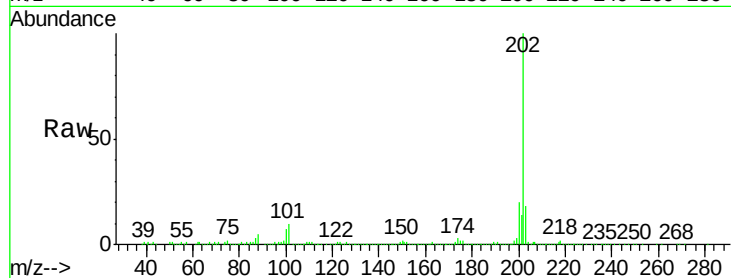
Tot Ion:202 Resp: 407589

Ion Ratio Lower Upper

202 100

101 10.4 0.0 30.5

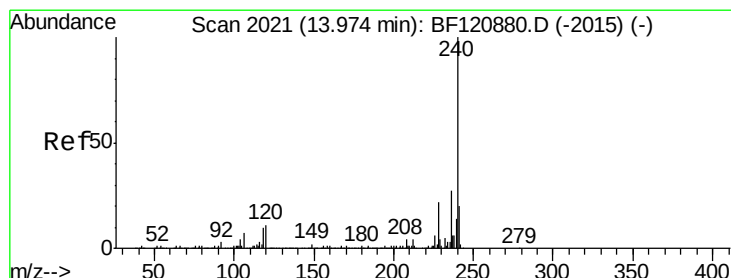
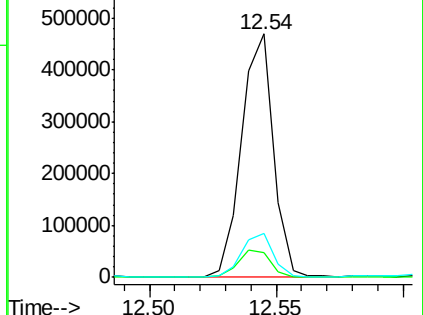
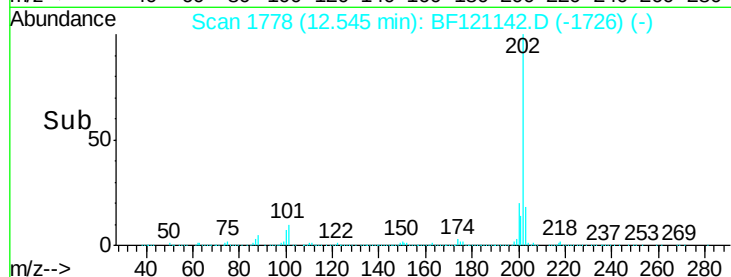
203 17.8 0.0 37.7



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.97 min Scan# 2021

Delta R.T. 0.01 min

Lab File: BF121142.D

Acq: 30 Jul 2020 22:23

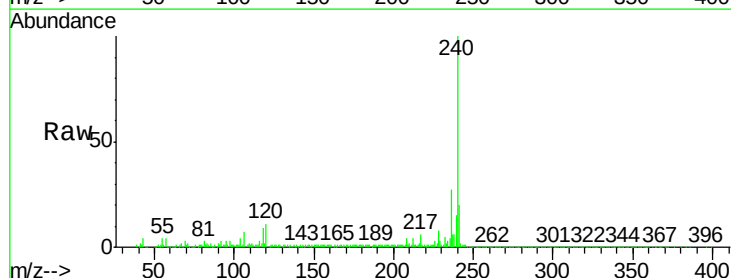
Tgt Ion:240 Resp: 347893

Ion Ratio Lower Upper

240 100

120 10.7 9.3 13.9

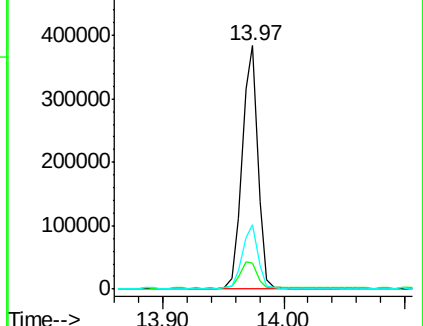
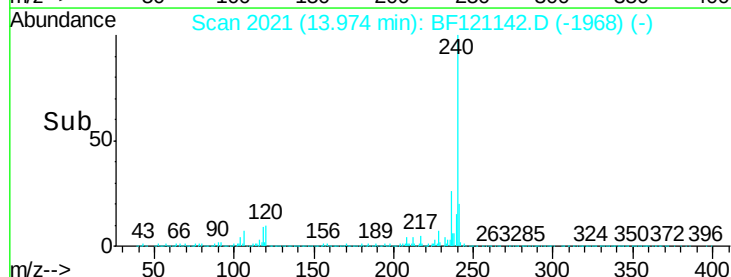
236 26.5 21.1 31.7

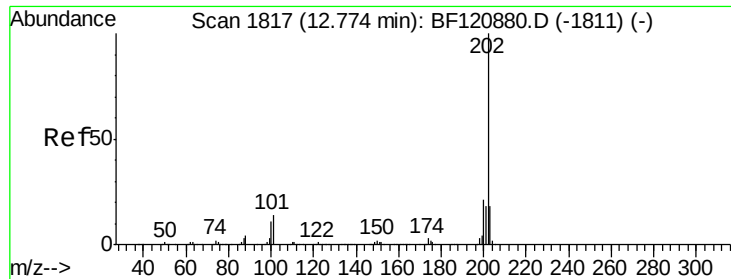


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

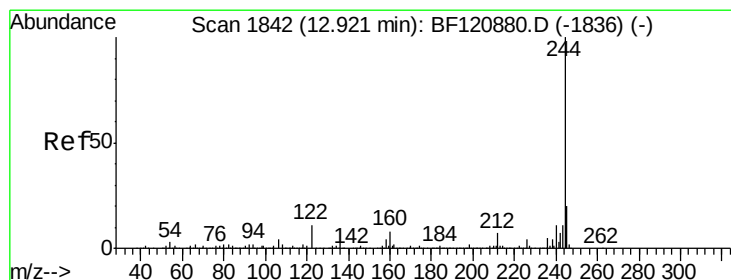
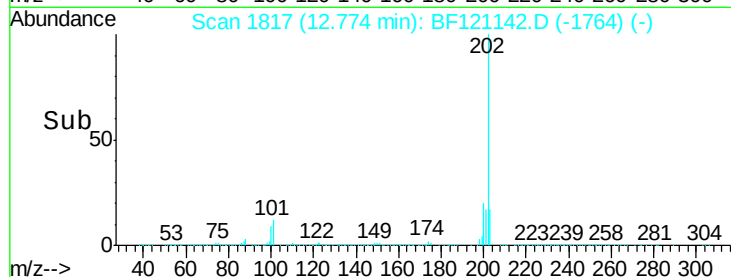
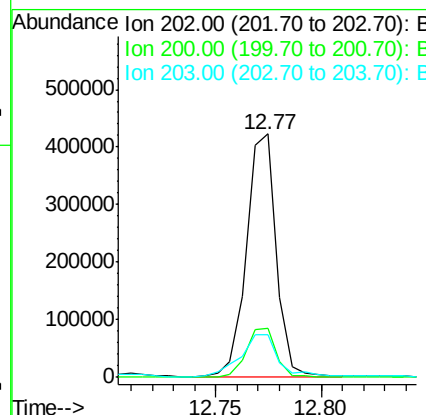
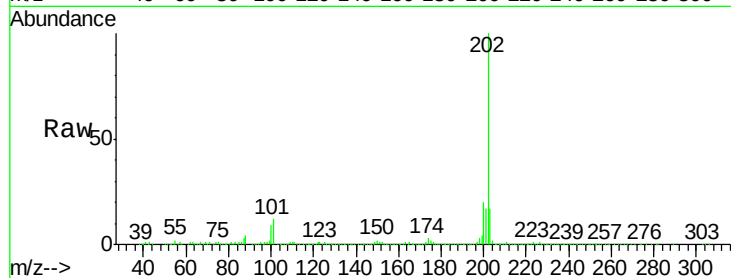




#78
Pvrene
Concen: 16.723 ng
RT: 12.77 min Scan# 1817
Delta R.T. 0.01 min
Lab File: BF121142.D
Acq: 30 Jul 2020 22:23

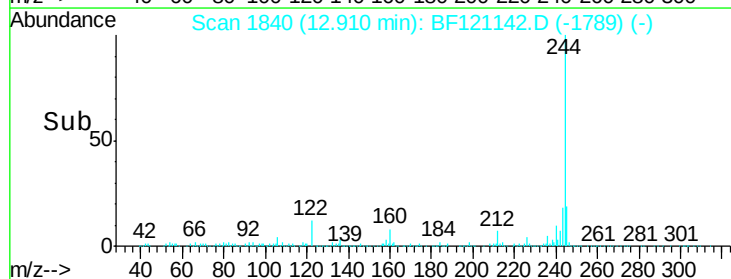
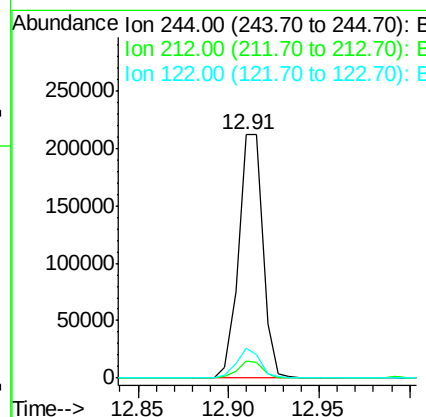
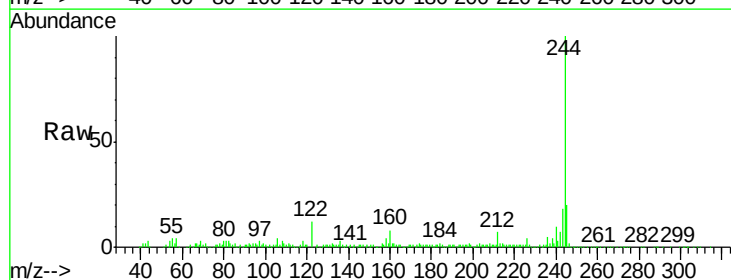
Instrument :
BNA_F
ClientSampleId :
21

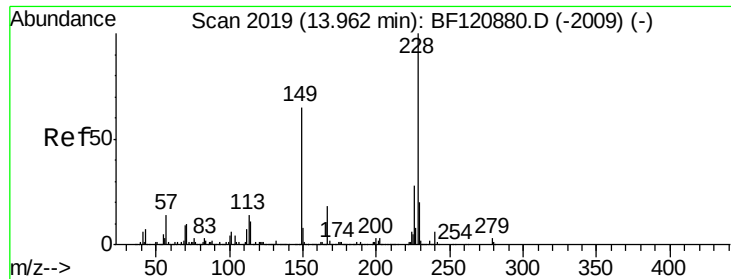
Tot Ion:202 Resp: 411324
Ion Ratio Lower Upper
202 100
200 20.0 17.0 25.6
203 17.5 14.6 21.8



#79
Terphenyl-d14
Concen: 12.412 ng
RT: 12.91 min Scan# 1840
Delta R.T. -0.00 min
Lab File: BF121142.D
Acq: 30 Jul 2020 22:23

Tgt Ion:244 Resp: 198638
Ion Ratio Lower Upper
244 100
212 7.1 5.7 8.5
122 12.4 8.3 12.5





#81

Benzo(a)anthracene

Concen: 8.468 ng

RT: 13.96 min Scan# 2019

Delta R.T. 0.01 min

Lab File: BF121142.D

Acq: 30 Jul 2020 22:23

Instrument :

BNA_F

ClientSampleId :

21

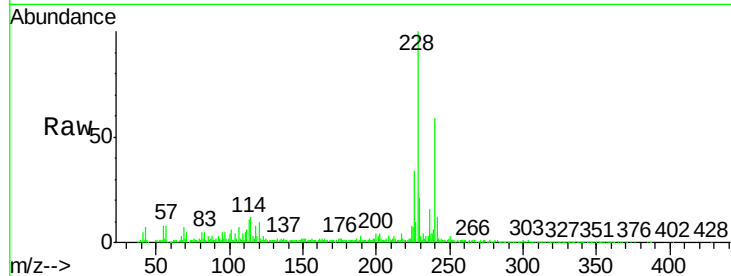
Tot Ion:228 Resp: 178398

Ion Ratio Lower Upper

228 100

226 33.7 22.6 34.0

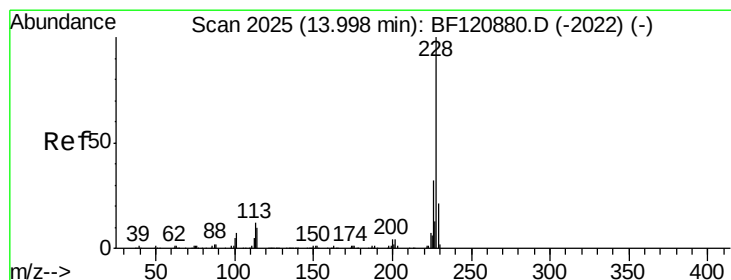
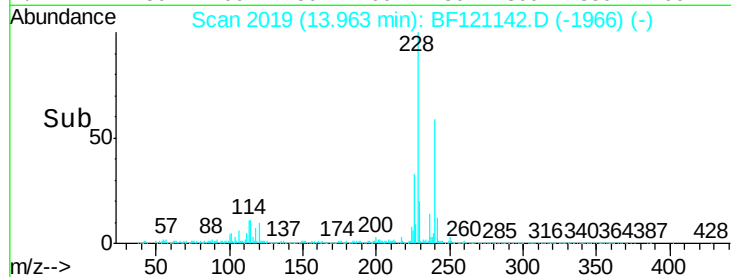
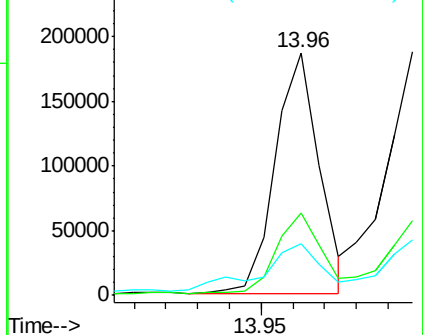
229 21.3 16.1 24.1



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: 8.011 ng

RT: 14.00 min Scan# 2025

Delta R.T. 0.01 min

Lab File: BF121142.D

Acq: 30 Jul 2020 22:23

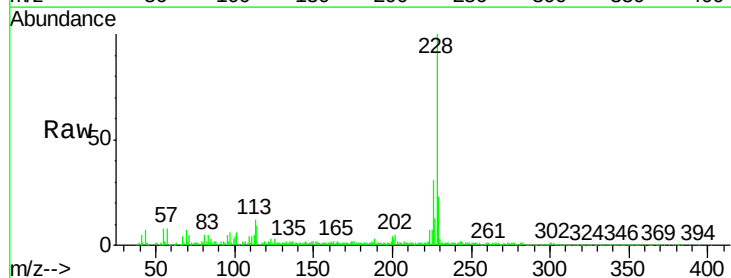
Tgt Ion:228 Resp: 177347

Ion Ratio Lower Upper

228 100

226 30.7 25.4 38.0

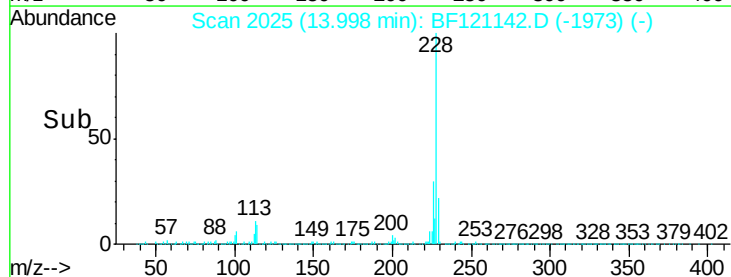
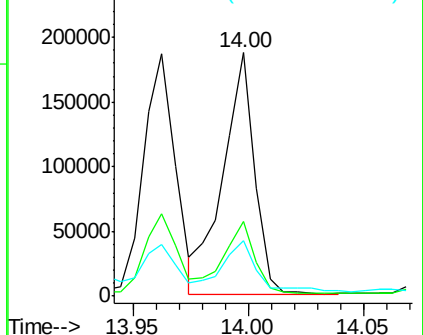
229 22.8 16.2 24.4

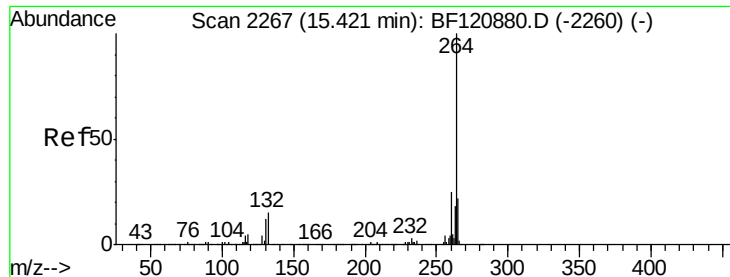


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

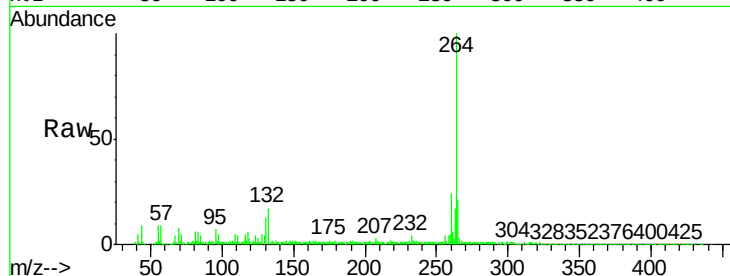




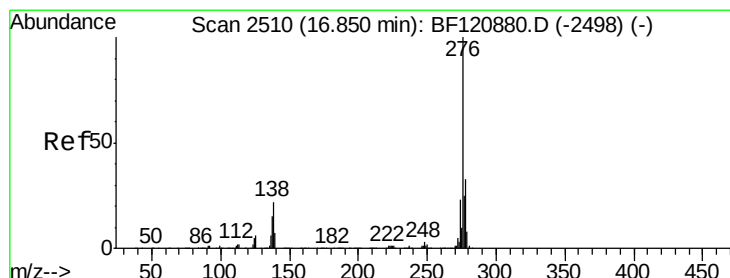
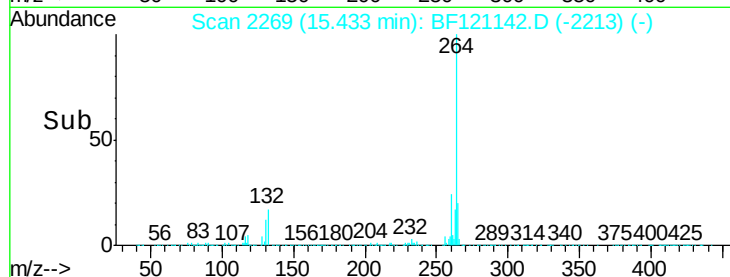
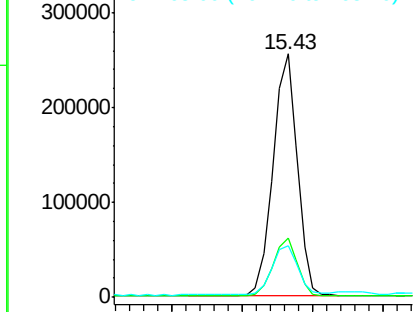
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.43 min Scan# 2269
Delta R.T. 0.03 min
Lab File: BF121142.D
Acq: 30 Jul 2020 22:23

Instrument :
BNA_F
ClientSampleId :
21

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.4	19.9	29.9
265	21.4	17.8	26.8

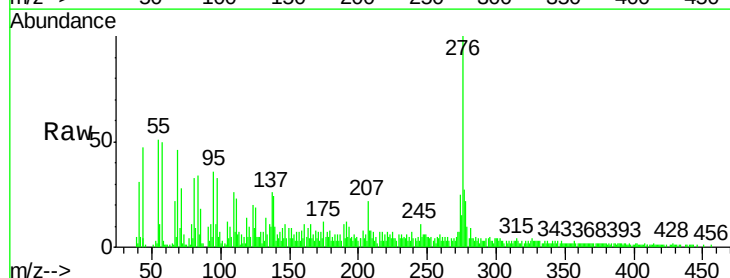


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

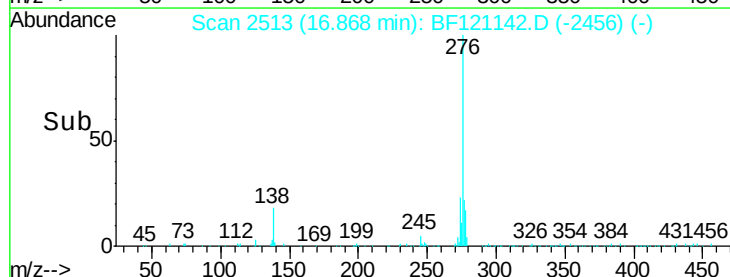
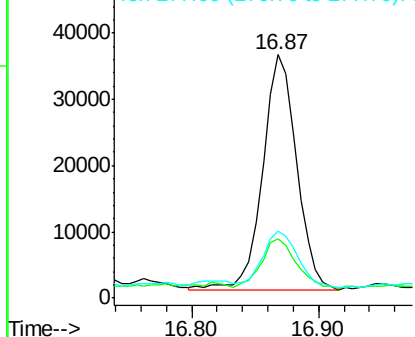


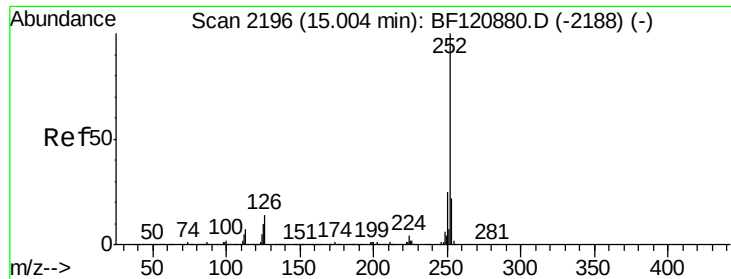
#87
Indeno(1,2,3-cd)pyrene
Concen: 3.044 ng
RT: 16.87 min Scan# 2513
Delta R.T. 0.04 min
Lab File: BF121142.D
Acq: 30 Jul 2020 22:23

Tgt Ion	Ratio	Lower	Upper
276	100		
138	22.0	19.3	28.9
277	25.3	20.1	30.1



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

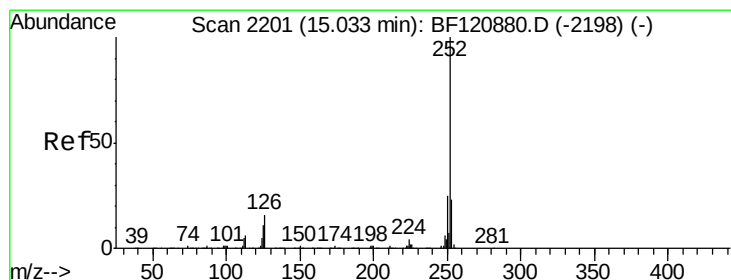
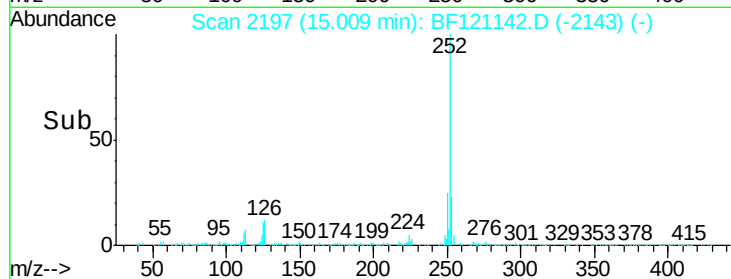
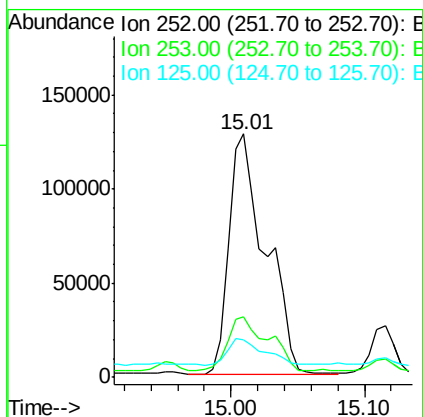
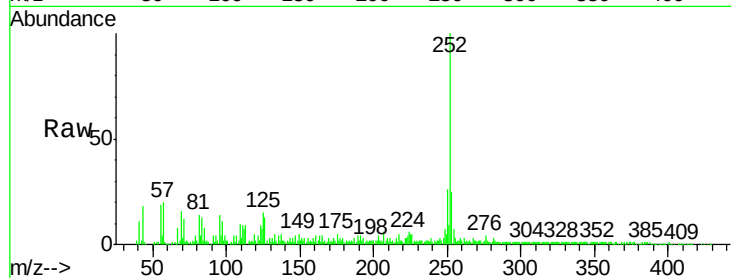




#88
Benzo(b)fluoranthene
Concen: 13.102 ng
RT: 15.01 min Scan# 2197
Delta R.T. 0.02 min
Lab File: BF121142.D
Acq: 30 Jul 2020 22:23

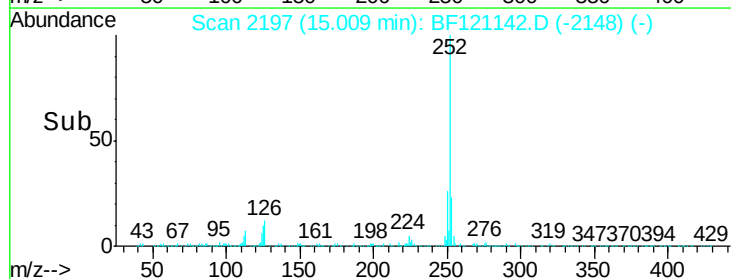
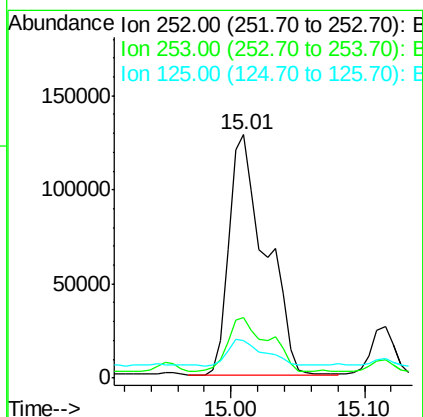
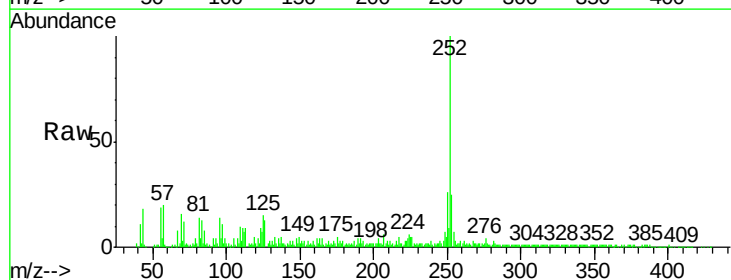
Instrument :
BNA_F
ClientSampleId :
21

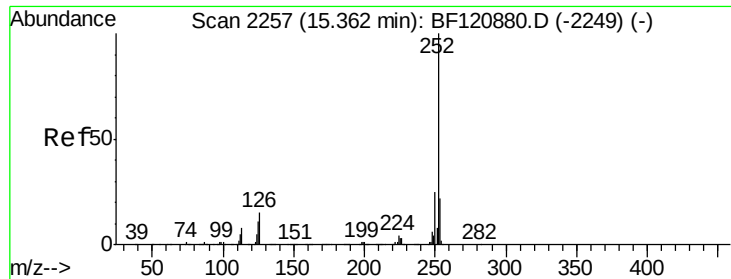
Tot Ion	Ratio	Lower	Upper
252	100		
253	24.8	17.9	26.9
125	15.5	8.1	12.1



#89
Benzo(k)fluoranthene
Concen: 14.366 ng
RT: 15.01 min Scan# 2197
Delta R.T. -0.01 min
Lab File: BF121142.D
Acq: 30 Jul 2020 22:23

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.8	18.1	27.1
125	15.5	8.0	12.0





#90

Benzo(a)pyrene

Concen: 7.658 ng

RT: 15.37 min Scan# 2258

Delta R.T. 0.02 min

Lab File: BF121142.D

Acq: 30 Jul 2020 22:23

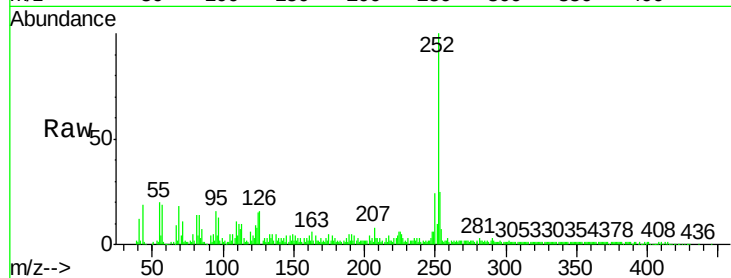
Instrument :

BNA_F

ClientSampleId :

21

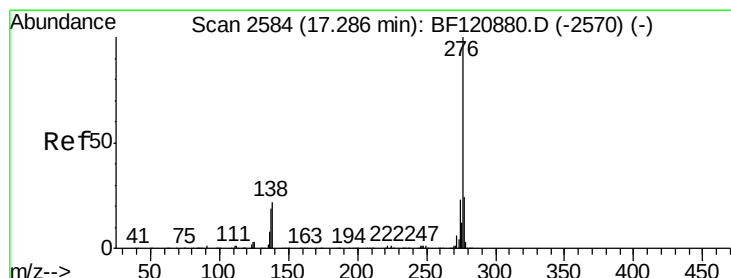
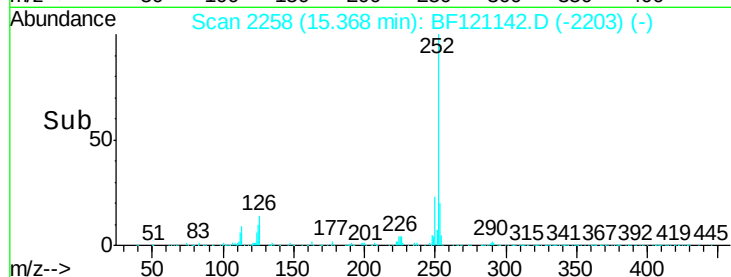
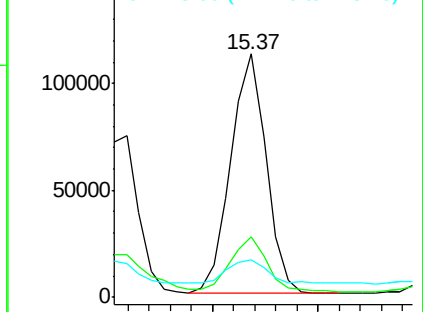
Tot Ion:	252	Resp:	130601
Ion	Ratio	Lower	Upper
252	100		
253	24.7	18.0	27.0
125	15.2	9.5	14.3#



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



#92

Benzo(g,h,i)perylene

Concen: 3.469 ng

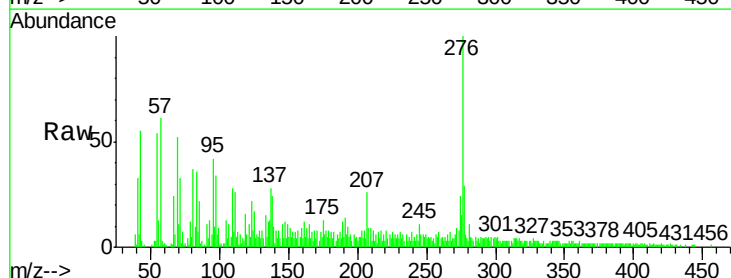
RT: 17.31 min Scan# 2588

Delta R.T. 0.05 min

Lab File: BF121142.D

Acq: 30 Jul 2020 22:23

Tgt Ion:	276	Resp:	60090
Ion	Ratio	Lower	Upper
276	100		
277	28.8	19.4	29.0
138	24.4	17.2	25.8



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

