

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080720\
 Data File : BF121226.D
 Acq On : 7 Aug 2020 11:13
 Operator : JU/CG
 Sample : L3548-04RE
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CRT-017

Quant Time: Aug 07 11:38:50 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	6.79	152	135335	20.00	ng	-0.01
21) Naphthalene-d8	8.07	136	526288	20.00	ng	-0.01
39) Acenaphthene-d10	9.83	164	275963	20.00	ng	0.00
64) Phenanthrene-d10	11.32	188	532316	20.00	ng	0.00
76) Chrysene-d12	13.96	240	455054	20.00	ng	0.00
86) Perylene-d12	15.42	264	417210	20.00	ng	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.42	112	906451	109.80	ng	0.00
7) Phenol-d6	6.44	99	1133962	106.34	ng	0.00
23) Nitrobenzene-d5	7.36	82	736247	80.95	ng	-0.02
42) 2,4,6-Tribromophenol	10.63	330	337847	111.84	ng	0.00
45) 2-Fluorobiphenyl	9.16	172	1375203	74.40	ng	0.00
79) Terphenyl-d14	12.92	244	1399258	66.84	ng	0.00

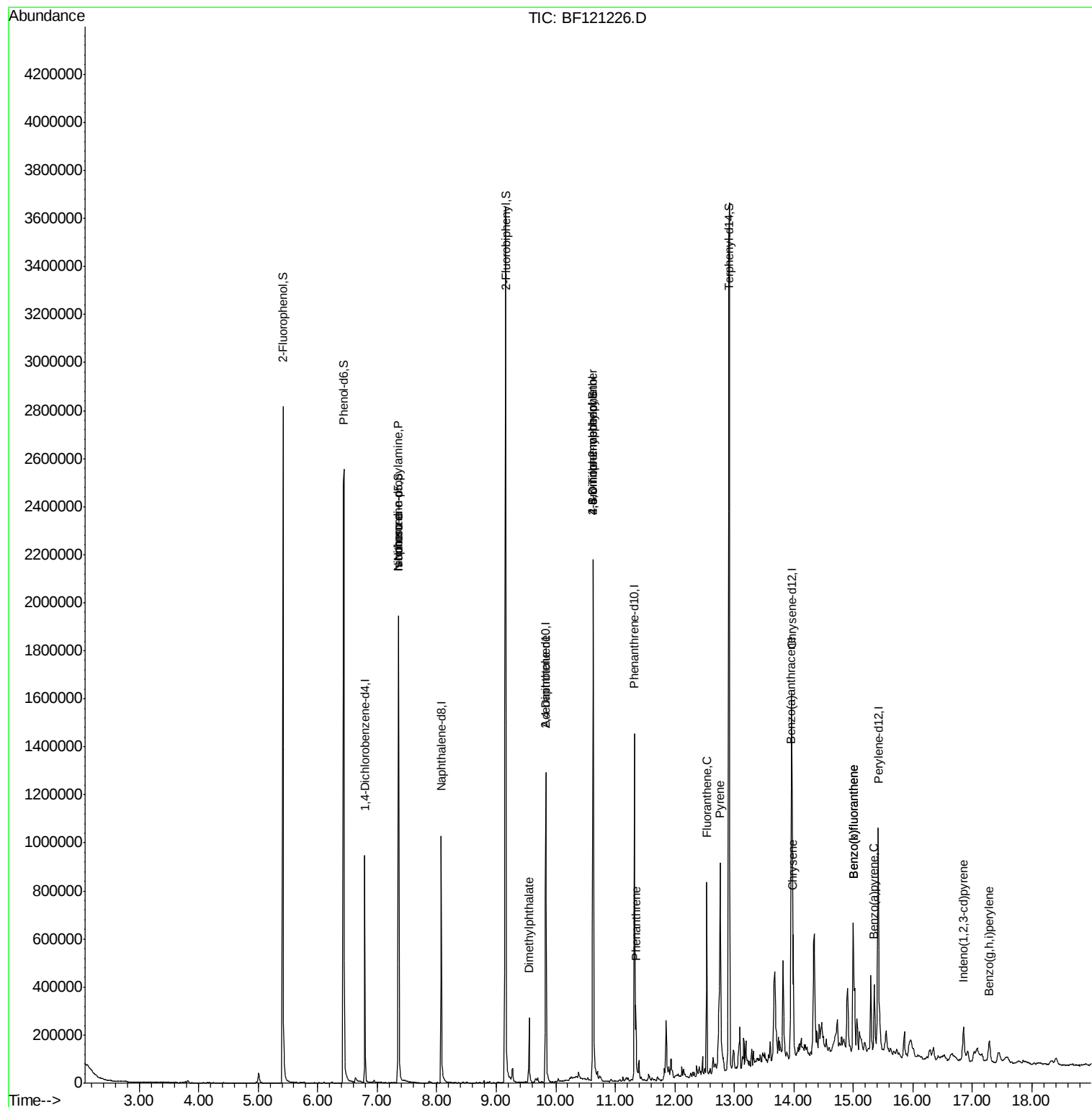
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.44	77	1570	Below Cal		# 1
19) n-Nitroso-di-n-propylamine	7.36	70	99074	16.339	ng	# 79
25) Isophorone	7.36	82	723160	39.838	ng	# 62
50) Dimethylphthalate	9.55	163	130519	6.556	ng	98
57) 2,4-Dinitrotoluene	9.83	165	35638	6.345	ng	# 29
65) 4,6-Dinitro-2-methylphenol	10.63	198	627	4.030	ng	# 1
67) 4-Bromophenyl-phenylether	10.63	248	19315	3.254	ng	# 1
71) Phenanthrene	11.35	178	97976	3.579	ng	97
75) Fluoranthene	12.53	202	312752	10.306	ng	98
78) Pyrene	12.76	202	272473	8.469	ng	99
81) Benzo(a)anthracene	13.95	228	203632	7.390	ng	100
83) Chrysene	13.99	228	210848	7.281	ng	97
87) Indeno(1,2,3-cd)pyrene	16.84	276	88518	3.051	ng	97
88) Benzo(b)fluoranthene	14.99	252	402073	15.943	ng	99
89) Benzo(k)fluoranthene	14.99	252	402073	17.482	ng	99
90) Benzo(a)pyrene	15.35	252	127975	5.562	ng	99
92) Benzo(a,h,i)perylene	17.28	276	79918	3.420	ng	98

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

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#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 6.79 min Scan# 800

Delta R.T. -0.01 min

Lab File: BF121226.D

Acq: 7 Aug 2020 11:13

Instrument :

BNA_F

ClientSampleId :

CRT-017

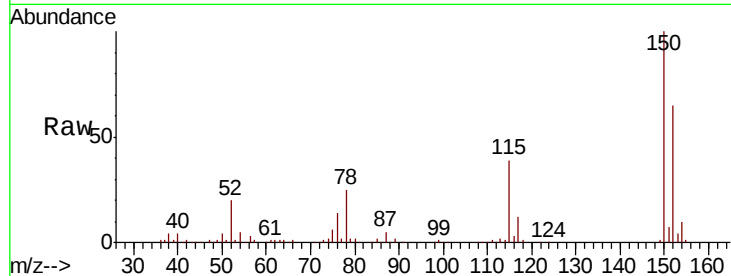
Tot Ion:152 Resp: 135335

Ion Ratio Lower Upper

152 100

150 154.2 125.6 188.4

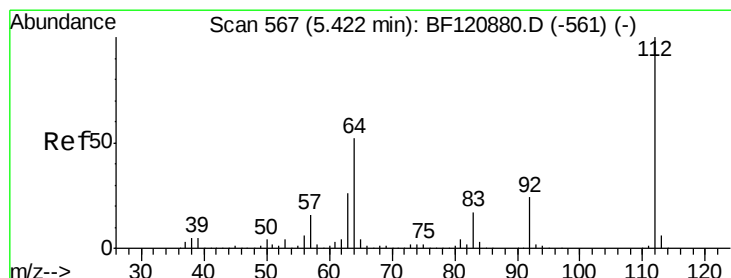
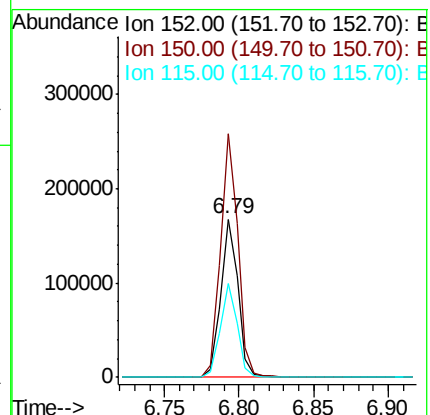
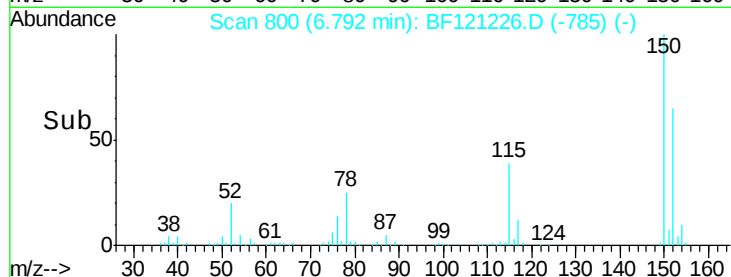
115 59.5 46.2 69.2



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: 109.801 ng

RT: 5.42 min Scan# 566

Delta R.T. 0.00 min

Lab File: BF121226.D

Acq: 7 Aug 2020 11:13

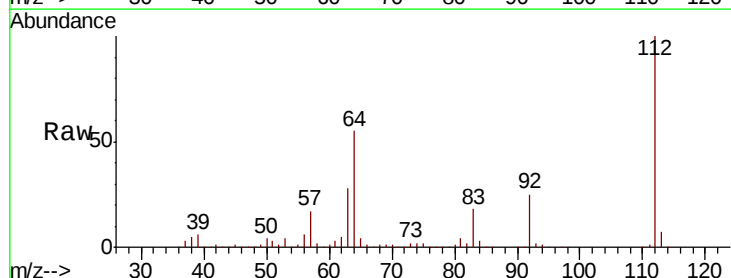
Tgt Ion:112 Resp: 906451

Ion Ratio Lower Upper

112 100

64 55.1 43.9 65.9

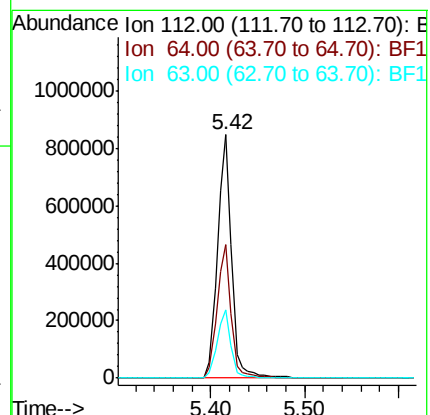
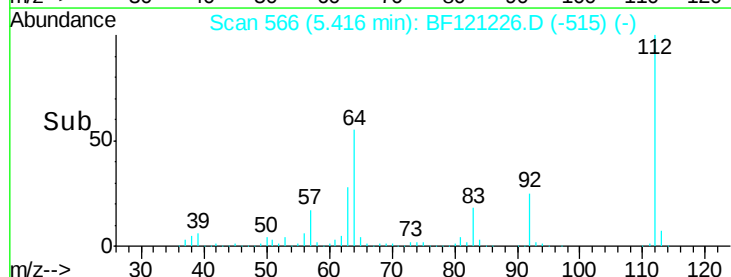
63 28.2 22.7 34.1

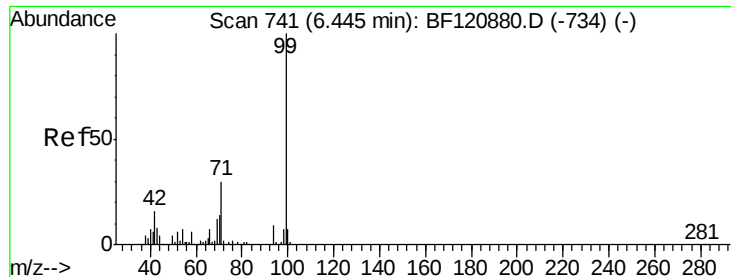


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 106.337 ng

RT: 6.44 min Scan# 740

Delta R.T. -0.01 min

Lab File: BF121226.D

Acq: 7 Aug 2020 11:13

Instrument :

BNA_F

ClientSampleId :

CRT-017

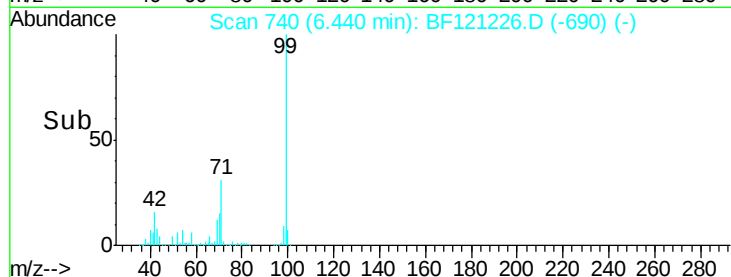
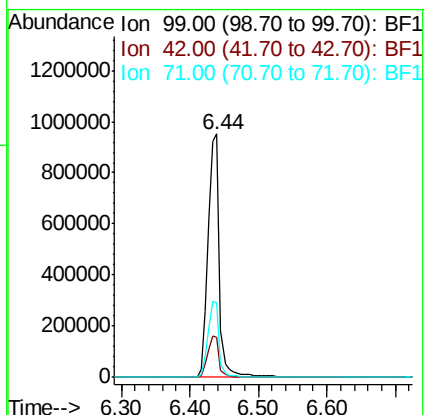
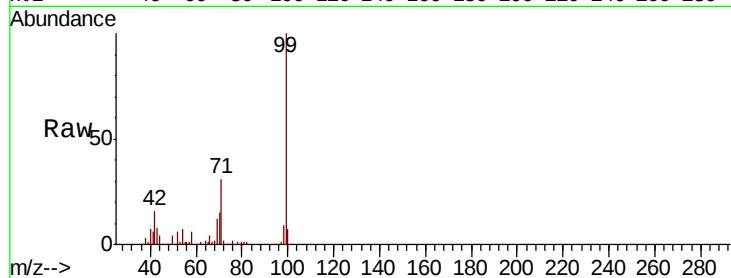
Tot Ion: 99 Resp: 1133962

Ion Ratio Lower Upper

99 100

42 16.3 13.5 20.3

71 30.7 25.0 37.4



#19

n-Nitroso-di-n-propylamine

Concen: 16.339 ng

RT: 7.36 min Scan# 896

Delta R.T. 0.13 min

Lab File: BF121226.D

Acq: 7 Aug 2020 11:13

Tgt Ion: 70 Resp: 99074

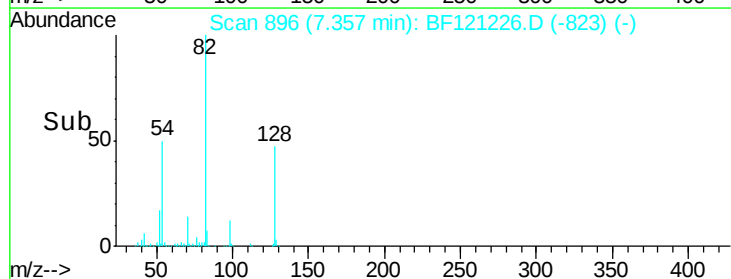
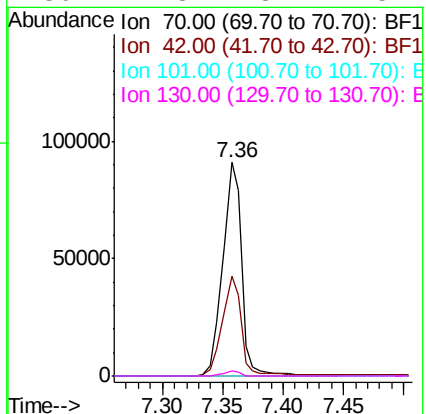
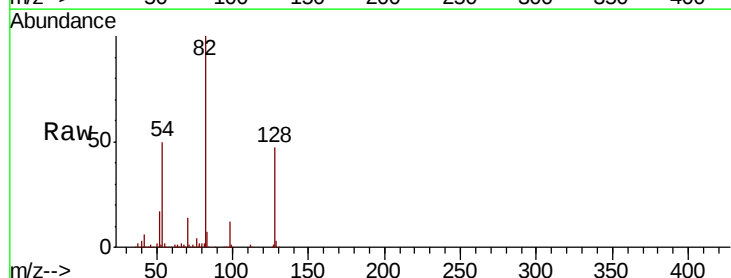
Ion Ratio Lower Upper

70 100

42 47.0 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: 8.07 min Scan# 1018

Delta R.T. -0.01 min

Lab File: BF121226.D

Acq: 7 Aug 2020 11:13

Instrument :

BNA_F

ClientSampleId :

CRT-017

Tot Ion:136 Resp: 526288

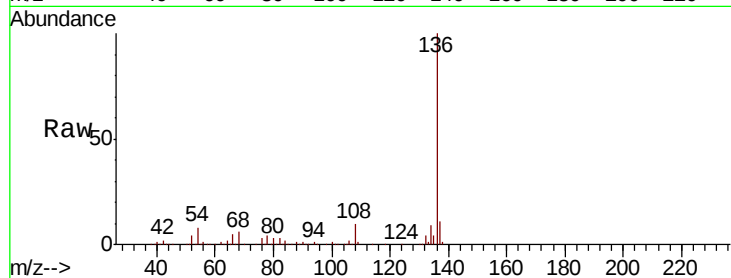
Ion Ratio Lower Upper

136 100

137 11.2 9.0 13.4

54 7.9 6.1 9.1

68 6.3 5.0 7.6

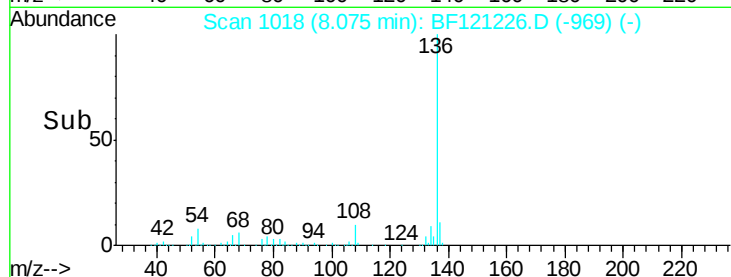


Abundance Ion 136.00 (135.70 to 136.70): E

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



Time-->



#23

Nitrobenzene-d5

Concen: 80.947 ng

RT: 7.36 min Scan# 896

Delta R.T. -0.02 min

Lab File: BF121226.D

Acq: 7 Aug 2020 11:13

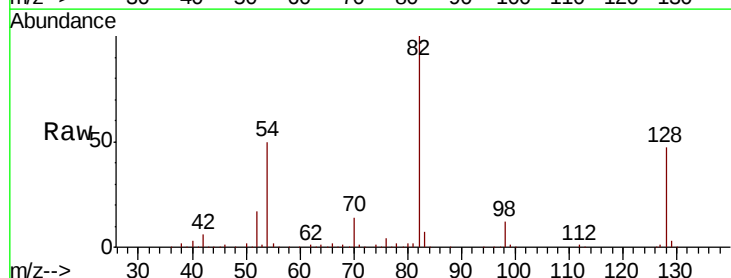
Tgt Ion: 82 Resp: 736247

Ion Ratio Lower Upper

82 100

128 46.6 39.2 58.8

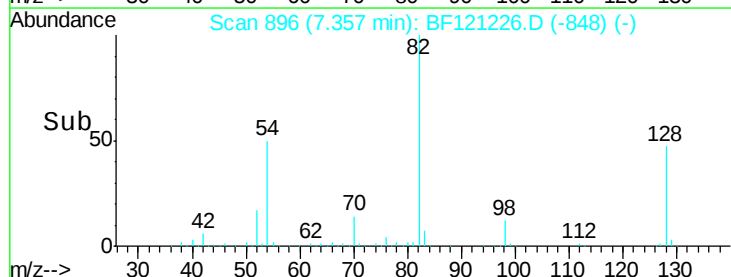
54 49.8 37.8 56.8



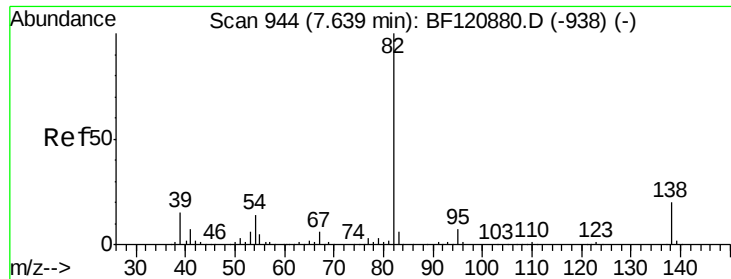
Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1



Time-->



#25

Isophorone

Concen: 39.838 ng

RT: 7.36 min Scan# 896

Delta R.T. -0.28 min

Lab File: BF121226.D

Acq: 7 Aug 2020 11:13

Instrument :

BNA_F

ClientSampleId :

CRT-017

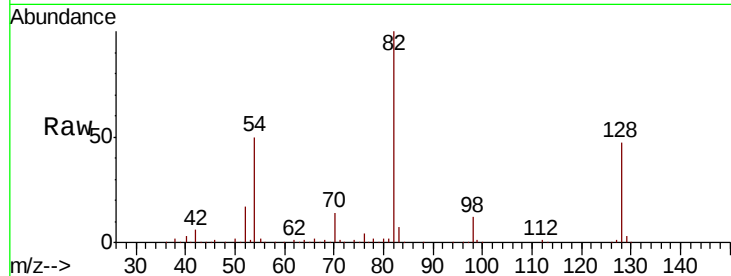
Tot Ion: 82 Resp: 723160

Ion Ratio Lower Upper

82 100

95 0.0 5.5 8.3#

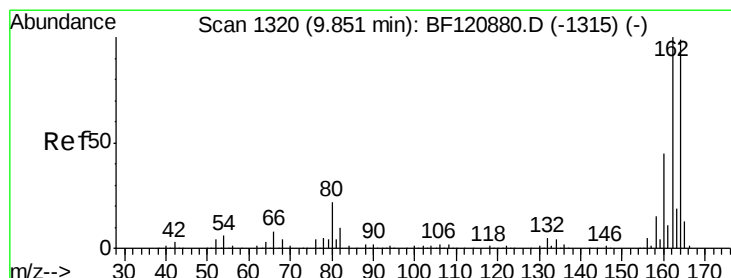
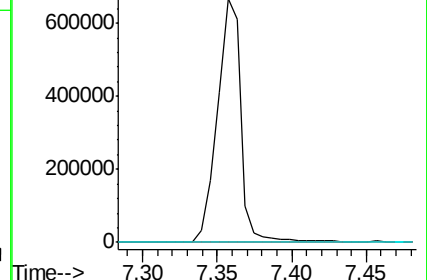
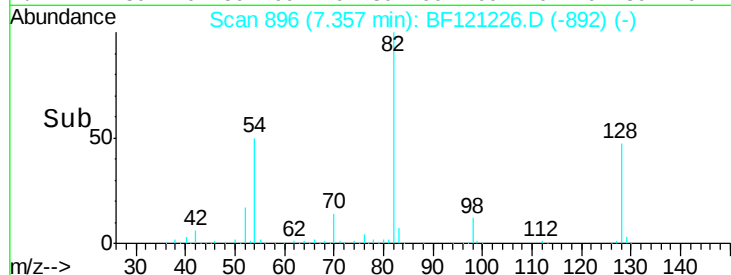
138 0.0 16.2 24.2#



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: 9.83 min Scan# 1317

Delta R.T. -0.01 min

Lab File: BF121226.D

Acq: 7 Aug 2020 11:13

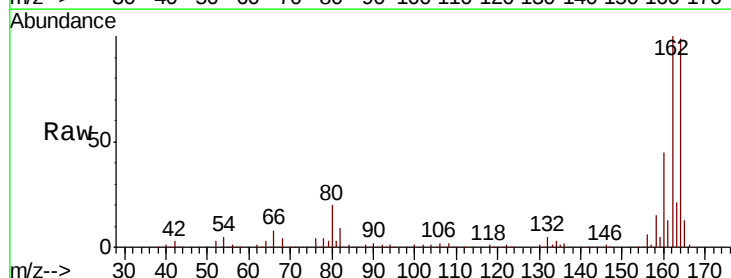
Tgt Ion:164 Resp: 275963

Ion Ratio Lower Upper

164 100

162 100.8 82.2 123.2

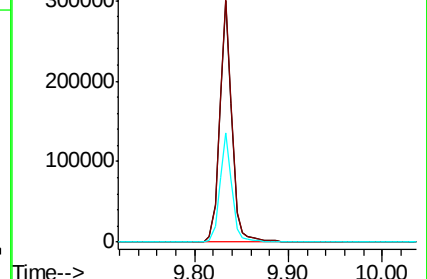
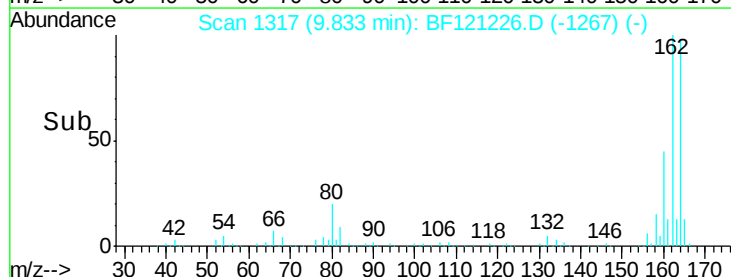
160 45.4 37.2 55.8



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

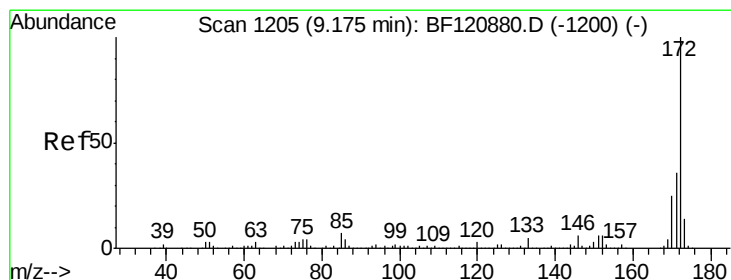
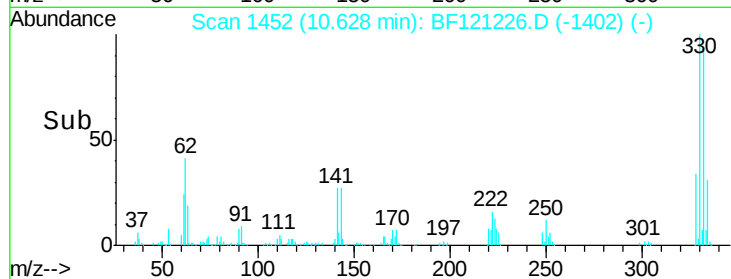
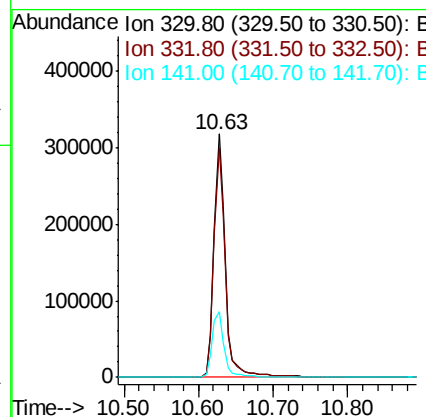
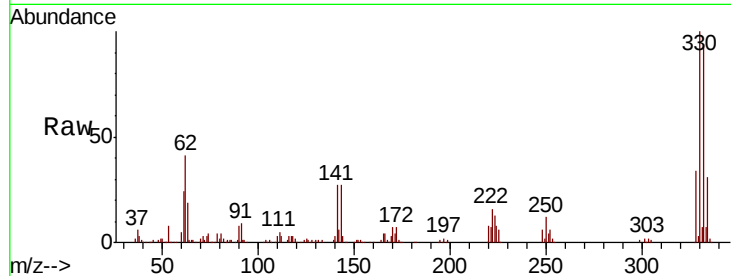




#42
 2,4,6-Tribromophenol
 Concen: 111.844 ng
 RT: 10.63 min Scan# 1452
 Delta R.T. -0.01 min
 Lab File: BF121226.D
 Acq: 7 Aug 2020 11:13

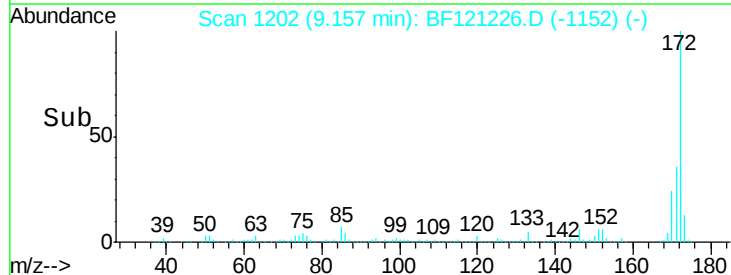
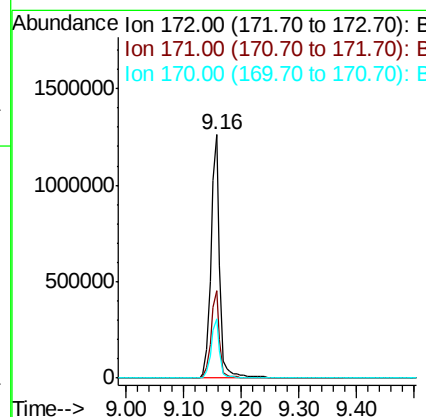
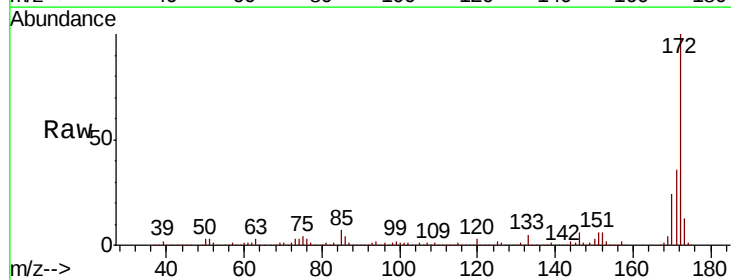
Instrument :
 BNA_F
 ClientSampleId :
 CRT-017

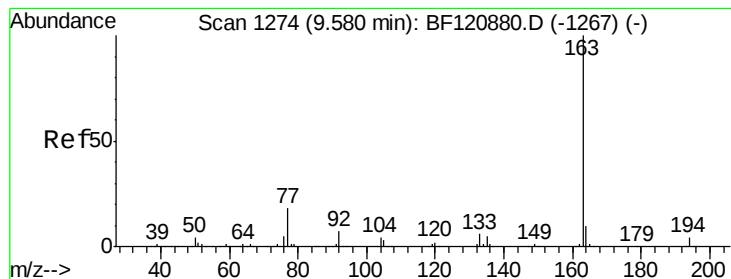
Tot Ion	Ratio	Lower	Upper
330	100		
332	95.3	76.1	114.1
141	29.3	24.1	36.1



#45
 2-Fluorobiphenyl
 Concen: 74.403 ng
 RT: 9.16 min Scan# 1202
 Delta R.T. -0.01 min
 Lab File: BF121226.D
 Acq: 7 Aug 2020 11:13

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.9	29.0	43.4
170	24.3	19.6	29.4





#50

Dimethylphthalate

Concen: 6.556 ng

RT: 9.55 min Scan# 1269

Delta R.T. -0.02 min

Lab File: BF121226.D

Acq: 7 Aug 2020 11:13

Instrument :

BNA_F

ClientSampleId :

CRT-017

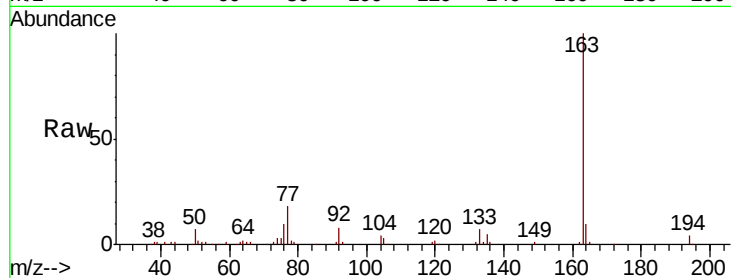
Tot Ion:163 Resp: 130519

Ion Ratio Lower Upper

163 100

194 4.0 3.0 4.4

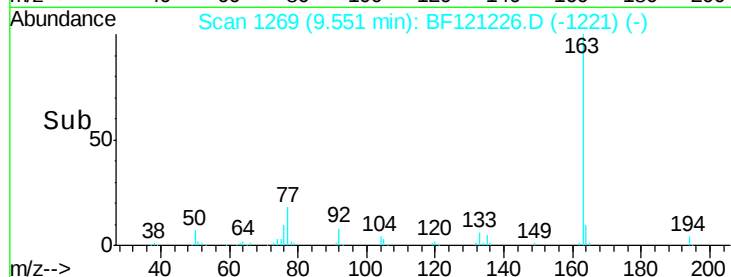
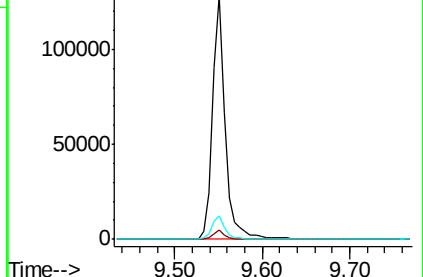
164 9.8 8.4 12.6



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



#57

2,4-Dinitrotoluene

Concen: 6.345 ng

RT: 9.83 min Scan# 1317

Delta R.T. -0.20 min

Lab File: BF121226.D

Acq: 7 Aug 2020 11:13

Tgt Ion:165 Resp: 35638

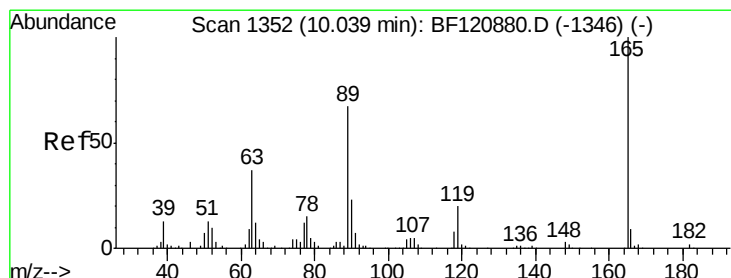
Ion Ratio Lower Upper

165 100

63 1.2 29.8 44.8#

89 1.2 50.3 75.5#

182 0.0 2.1 3.1#

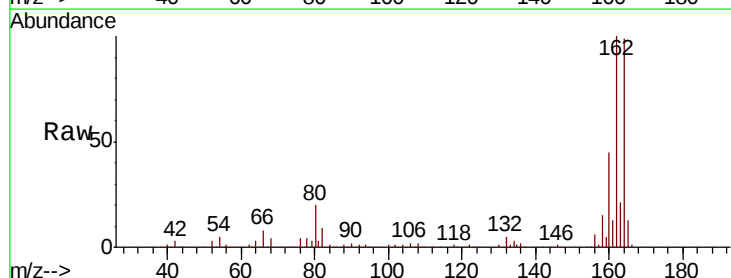
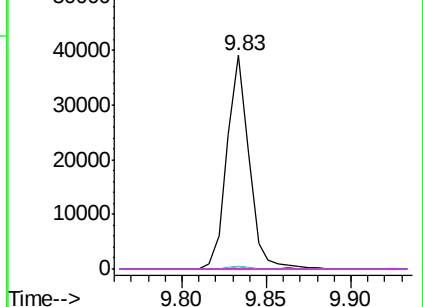


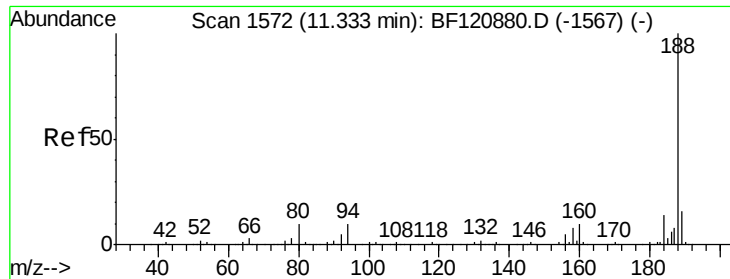
Abundance Ion 165.00 (164.70 to 165.70): E

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: 11.32 min Scan# 1570

Delta R.T. 0.00 min

Lab File: BF121226.D

Acq: 7 Aug 2020 11:13

Instrument :

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CRT-017

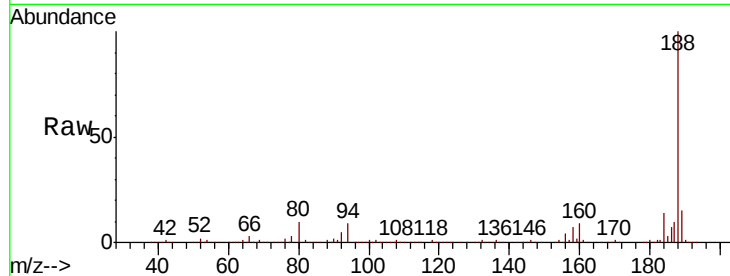
Tot Ion:188 Resp: 532316

Ion Ratio Lower Upper

188 100

94 9.3 8.0 12.0

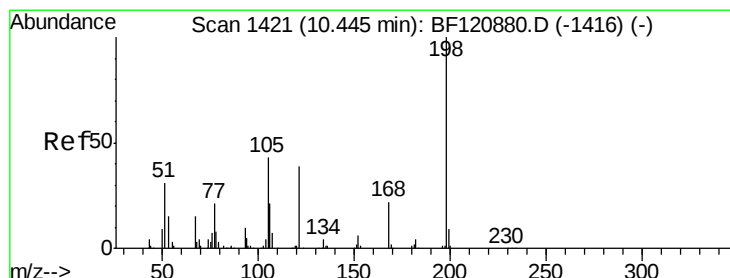
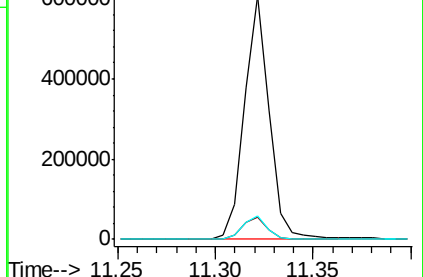
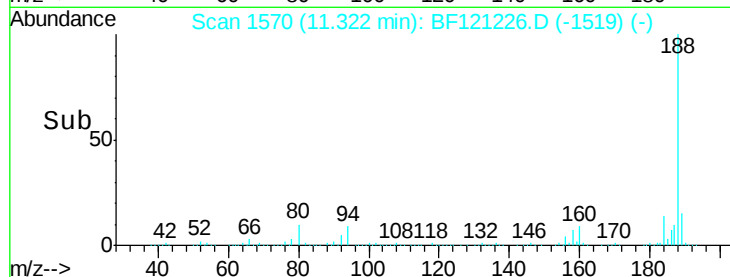
80 9.8 8.3 12.5



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



#65

4,6-Dinitro-2-methylphenol

Concen: 4.030 ng

RT: 10.63 min Scan# 1452

Delta R.T. 0.19 min

Lab File: BF121226.D

Acq: 7 Aug 2020 11:13

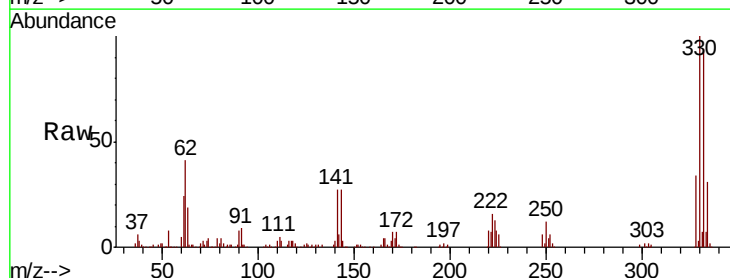
Tgt Ion:198 Resp: 627

Ion Ratio Lower Upper

198 100

51 147.6 23.4 63.4#

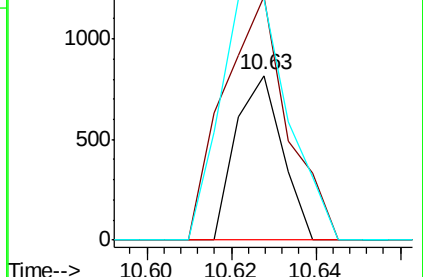
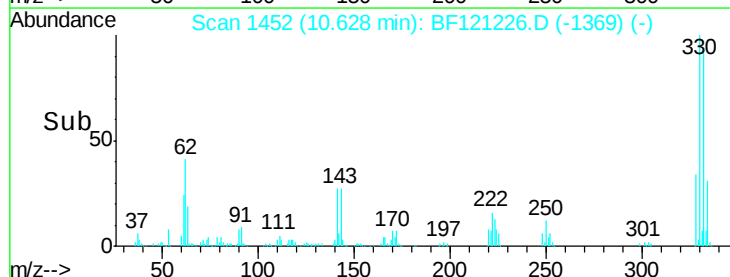
105 146.2 23.7 63.7#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF1

Ion 105.00 (104.70 to 105.70): E

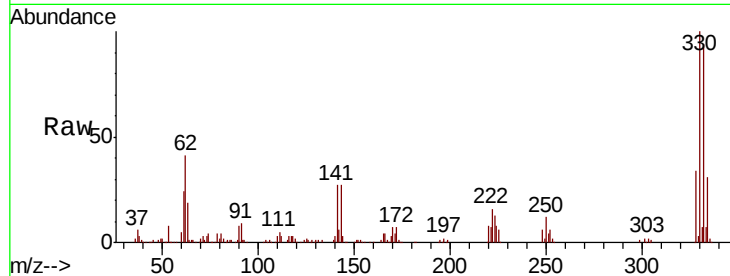




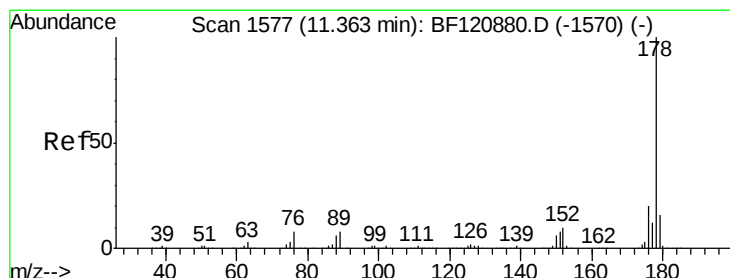
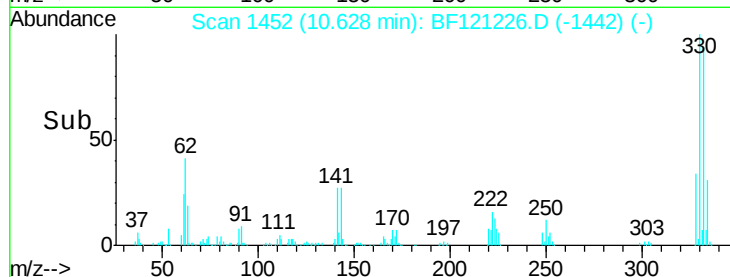
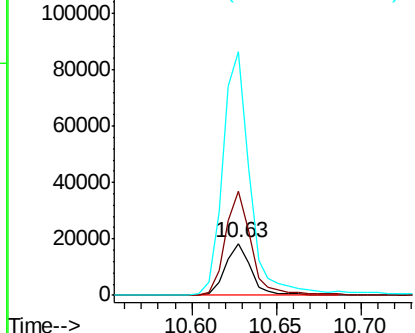
#67
 4-Bromophenyl-phenylether
 Concen: 3.254 ng
 RT: 10.63 min Scan# 1452
 Delta R.T. -0.24 min
 Lab File: BF121226.D
 Acq: 7 Aug 2020 11:13

Instrument :
 BNA_F
 ClientSampleId :
 CRT-017

Tot Ion	Ratio	Lower	Upper
248	100		
250	199.3	77.0	115.6#
141	468.6	56.6	85.0#

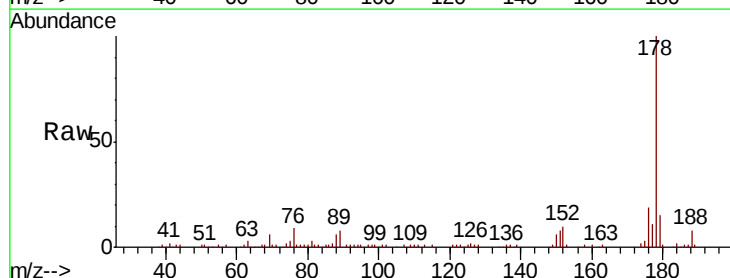


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

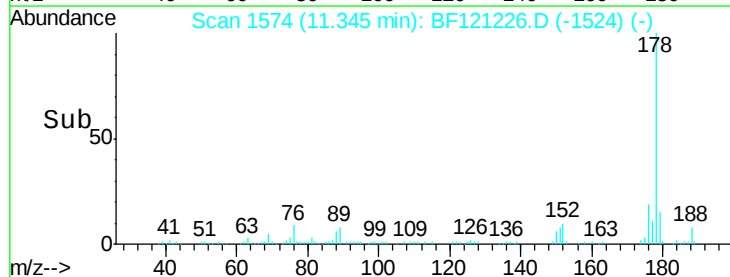
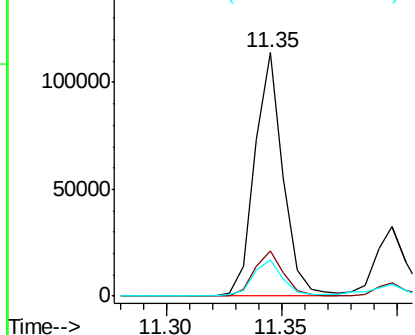


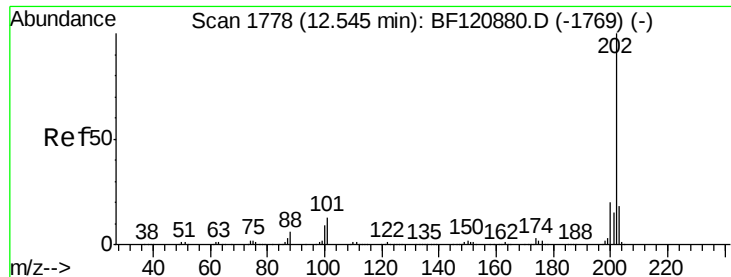
#71
 Phenanthrene
 Concen: 3.579 ng
 RT: 11.35 min Scan# 1574
 Delta R.T. -0.01 min
 Lab File: BF121226.D
 Acq: 7 Aug 2020 11:13

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.7	16.2	24.2
179	14.8	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: 10.306 ng

RT: 12.53 min Scan# 1776

Delta R.T. -0.01 min

Lab File: BF121226.D

Acq: 7 Aug 2020 11:13

Instrument :

BNA_F

ClientSampleId :

CRT-017

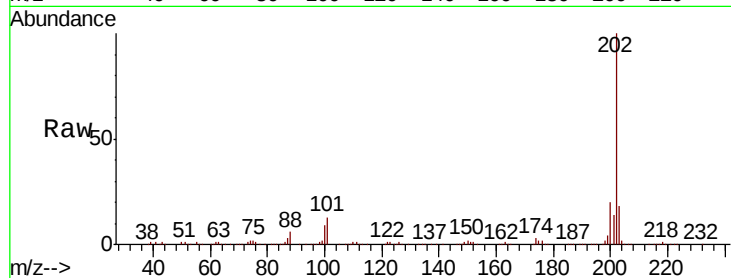
Tot Ion:202 Resp: 312752

Ion Ratio Lower Upper

202 100

101 12.5 0.0 30.5

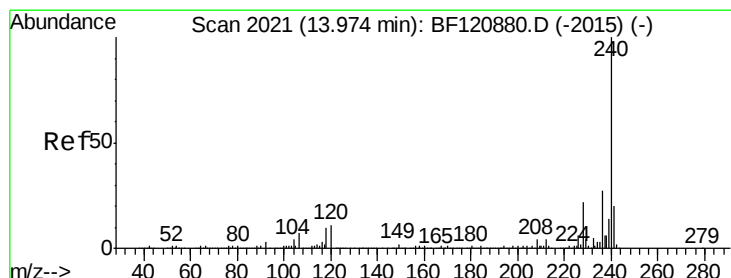
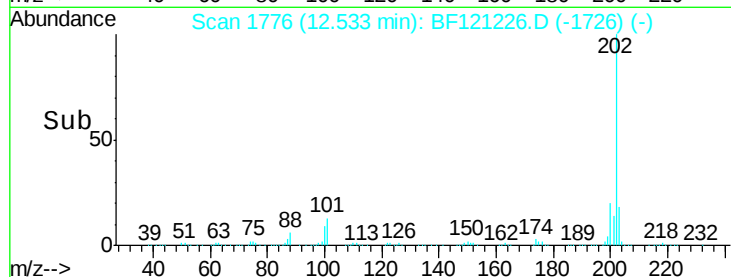
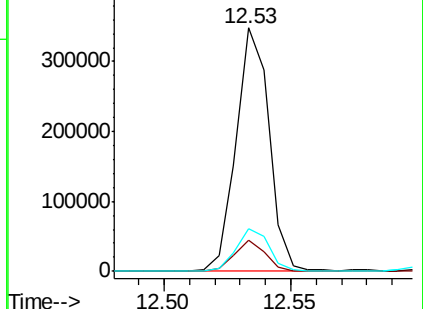
203 17.8 0.0 37.7



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: 13.96 min Scan# 2019

Delta R.T. 0.00 min

Lab File: BF121226.D

Acq: 7 Aug 2020 11:13

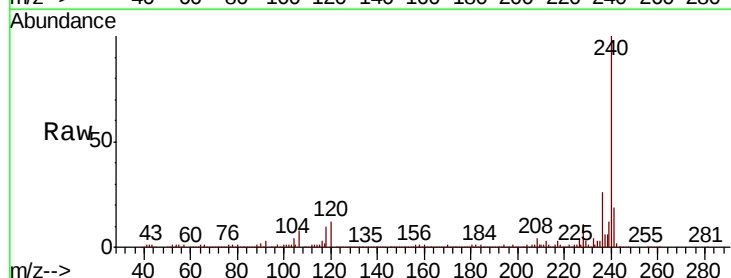
Tgt Ion:240 Resp: 455054

Ion Ratio Lower Upper

240 100

120 11.8 9.3 13.9

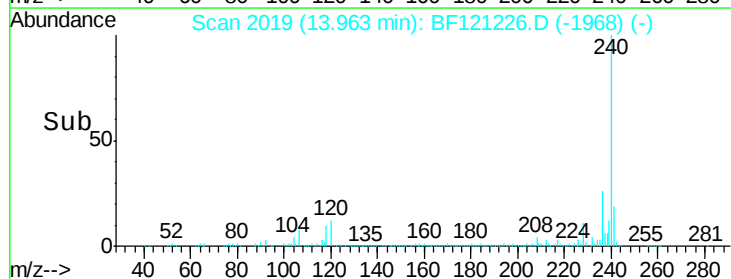
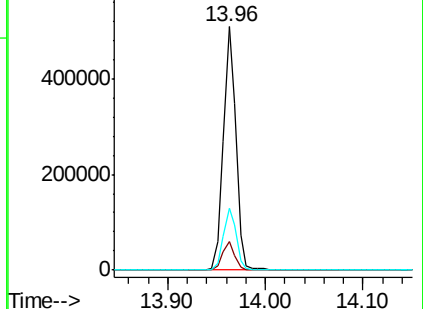
236 25.6 21.1 31.7

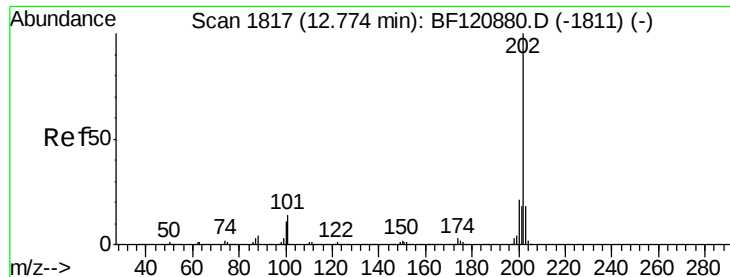


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

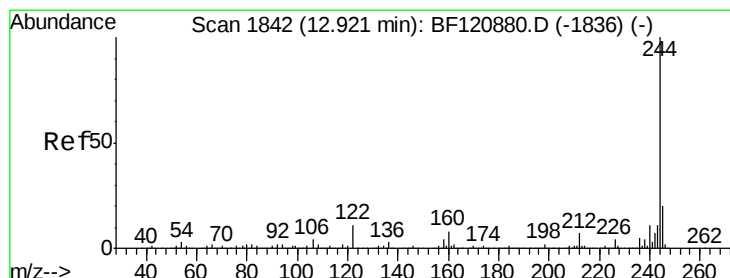
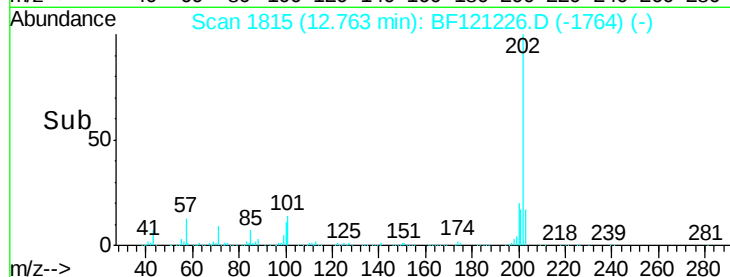
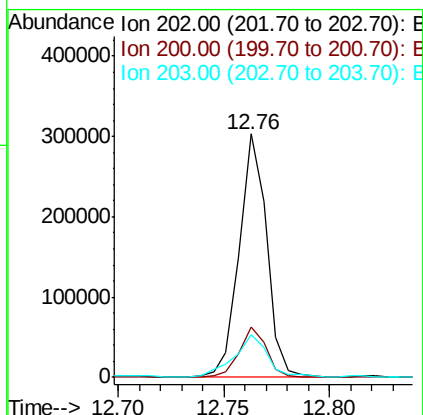
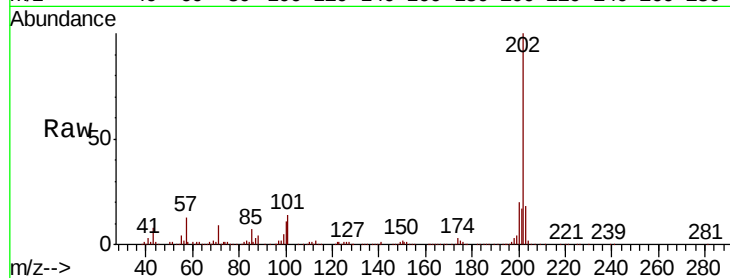




#78
Pvrene
Concen: 8.469 ng
RT: 12.76 min Scan# 1815
Delta R.T. 0.00 min
Lab File: BF121226.D
Acq: 7 Aug 2020 11:13

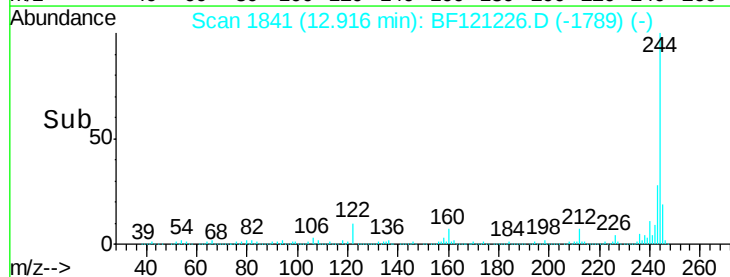
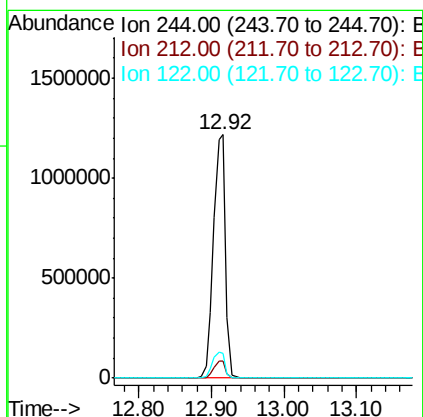
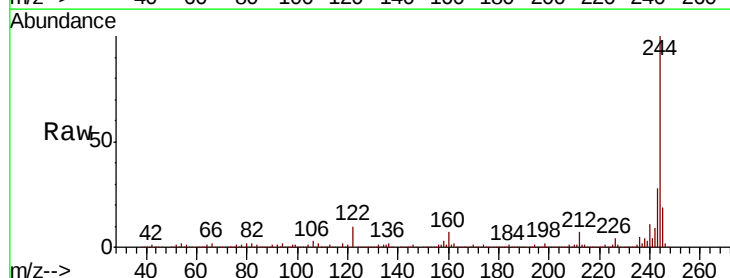
Instrument :
BNA_F
ClientSampleId :
CRT-017

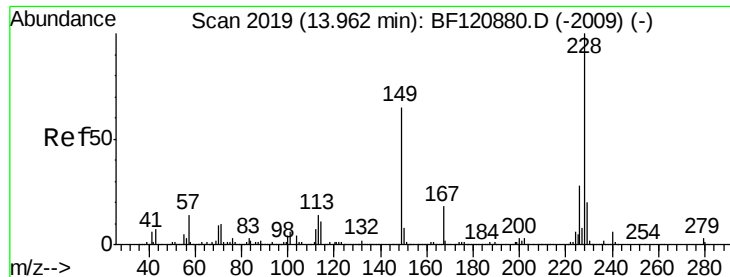
Tot Ion:202 Resp: 272473
Ion Ratio Lower Upper
202 100
200 20.4 17.0 25.6
203 17.7 14.6 21.8



#79
Terphenyl-d14
Concen: 66.842 ng
RT: 12.92 min Scan# 1841
Delta R.T. 0.01 min
Lab File: BF121226.D
Acq: 7 Aug 2020 11:13

Tgt Ion:244 Resp: 1399258
Ion Ratio Lower Upper
244 100
212 7.0 5.7 8.5
122 9.9 8.3 12.5





#81

Benzo(a)anthracene

Concen: 7.390 ng

RT: 13.95 min Scan# 2017

Delta R.T. 0.00 min

Lab File: BF121226.D

Acq: 7 Aug 2020 11:13

Instrument :

BNA_F

ClientSampleId :

CRT-017

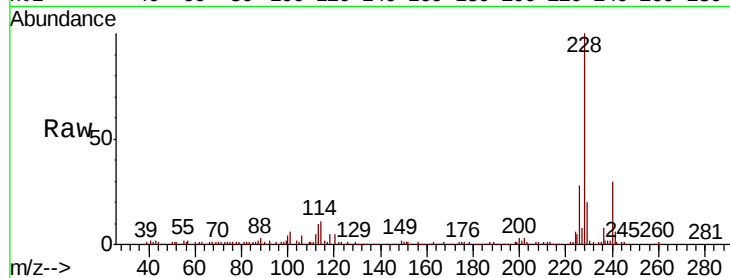
Tot Ion:228 Resp: 203632

Ion Ratio Lower Upper

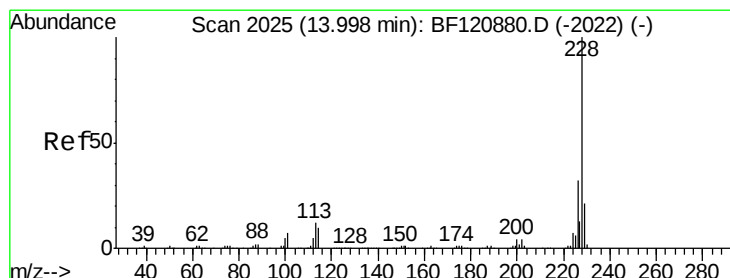
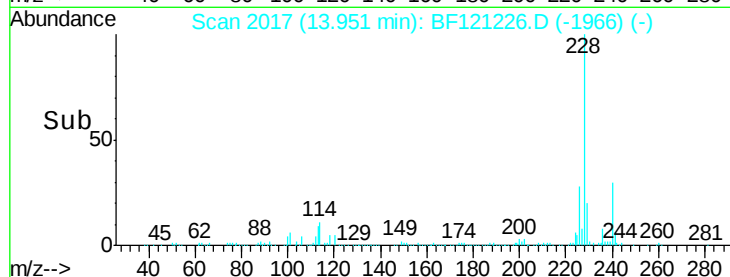
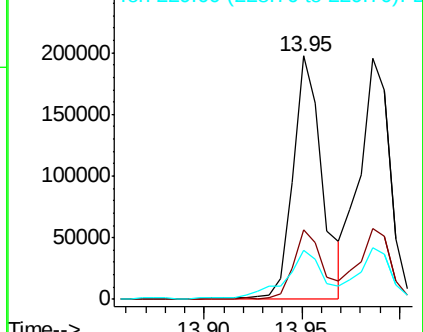
228 100

226 28.4 22.6 34.0

229 20.2 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: 7.281 ng

RT: 13.99 min Scan# 2023

Delta R.T. -0.01 min

Lab File: BF121226.D

Acq: 7 Aug 2020 11:13

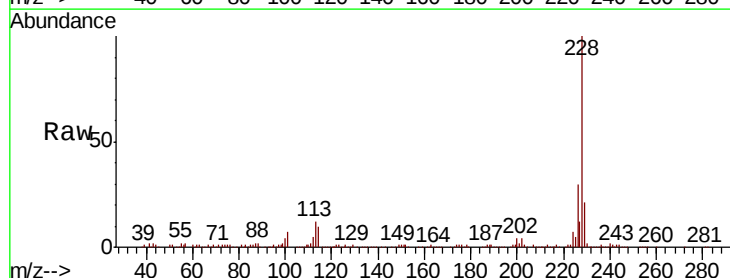
Tgt Ion:228 Resp: 210848

Ion Ratio Lower Upper

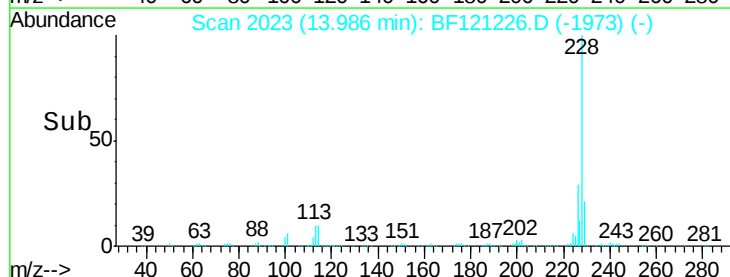
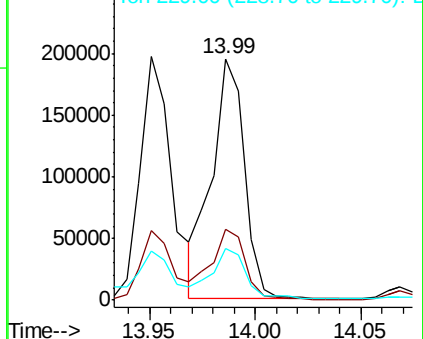
228 100

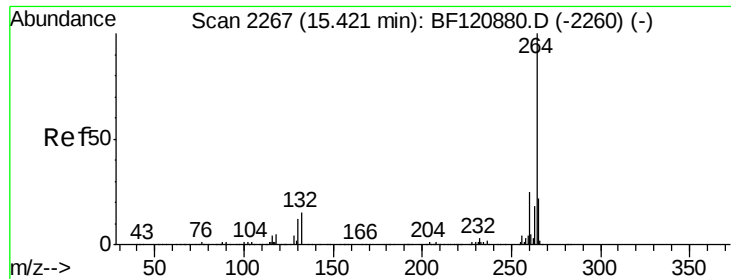
226 29.6 25.4 38.0

229 21.3 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



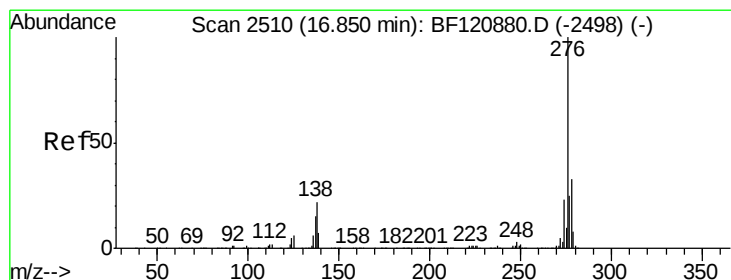
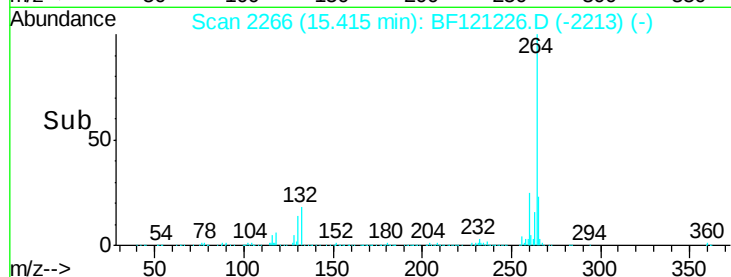
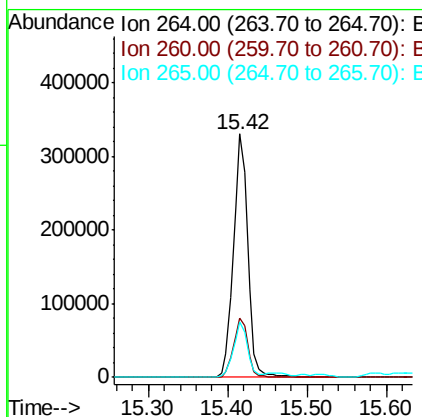
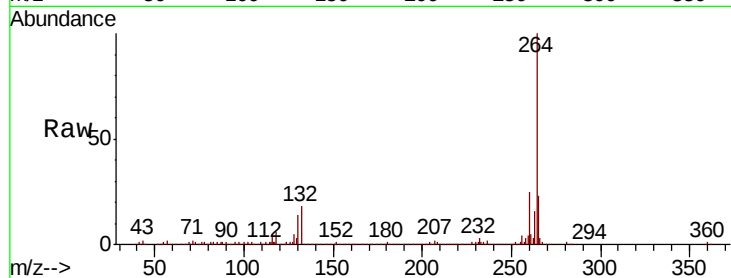


#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.42 min Scan# 2266
Delta R.T. 0.01 min
Lab File: BF121226.D
Acq: 7 Aug 2020 11:13

Instrument :
BNA_F
ClientSampleId :
CRT-017

Tot Ion:264 Resp: 417210

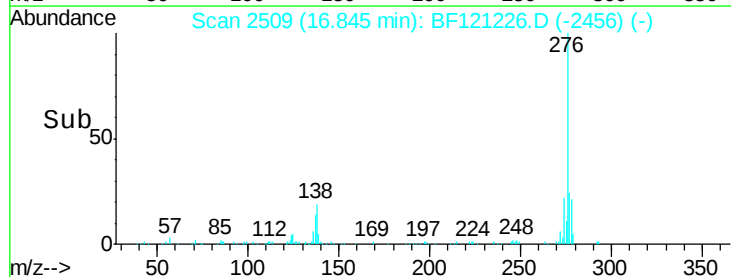
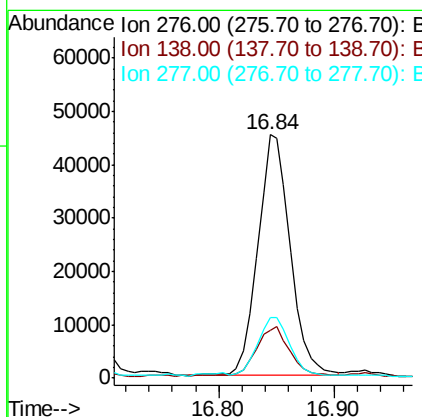
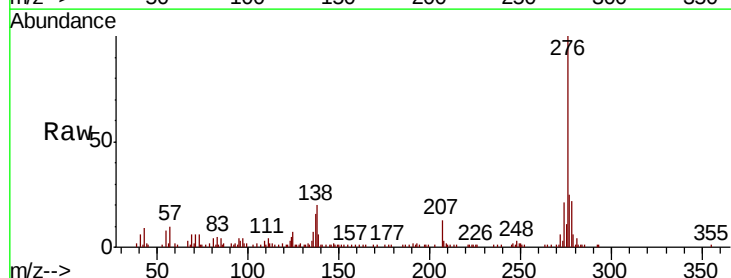
Ion	Ratio	Lower	Upper
264	100		
260	24.5	19.9	29.9
265	22.6	17.8	26.8

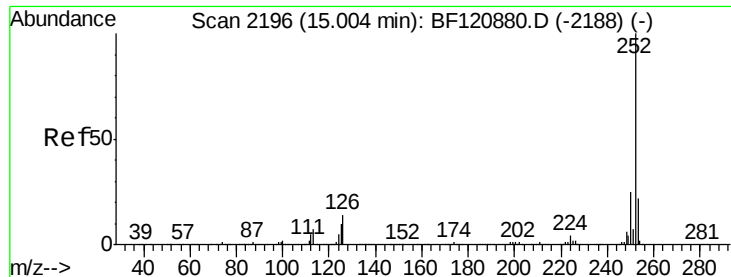


#87
Indeno(1,2,3-cd)pyrene
Concen: 3.051 ng
RT: 16.84 min Scan# 2509
Delta R.T. 0.01 min
Lab File: BF121226.D
Acq: 7 Aug 2020 11:13

Tgt Ion:276 Resp: 88518

Ion	Ratio	Lower	Upper
276	100		
138	21.8	19.3	28.9
277	24.6	20.1	30.1





#88

Benzo(b)fluoranthene

Concen: 15.943 ng

RT: 14.99 min Scan# 2194

Delta R.T. 0.00 min

Lab File: BF121226.D

Acq: 7 Aug 2020 11:13

Instrument :

BNA_F

ClientSampleId :

CRT-017

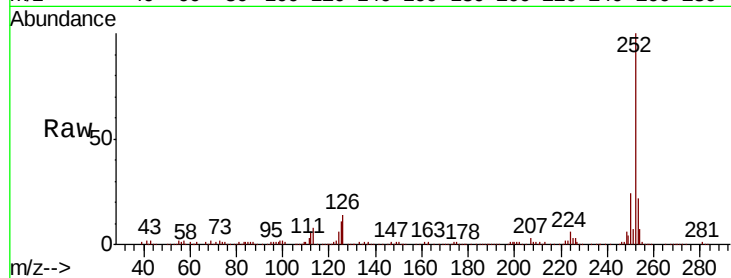
Tot Ion:252 Resp: 402073

Ion Ratio Lower Upper

252 100

253 22.5 17.9 26.9

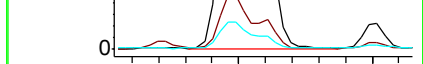
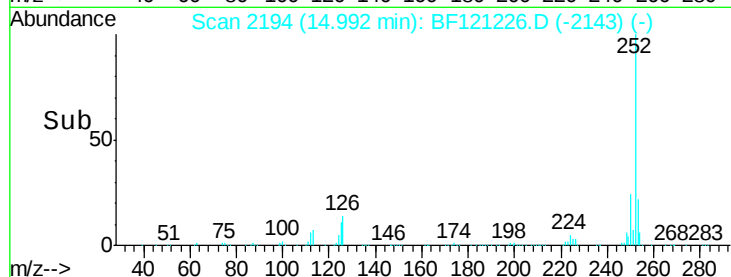
125 11.4 8.1 12.1



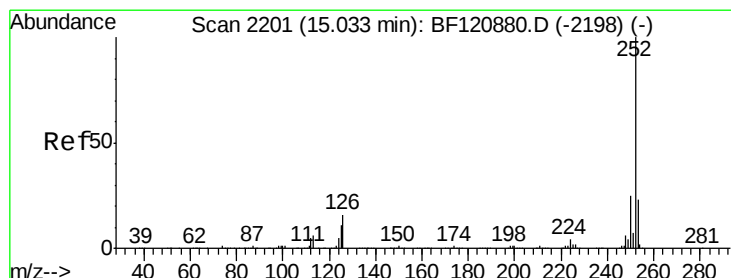
Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



Time-->



#89

Benzo(k)fluoranthene

Concen: 17.482 ng

RT: 14.99 min Scan# 2194

Delta R.T. -0.03 min

Lab File: BF121226.D

Acq: 7 Aug 2020 11:13

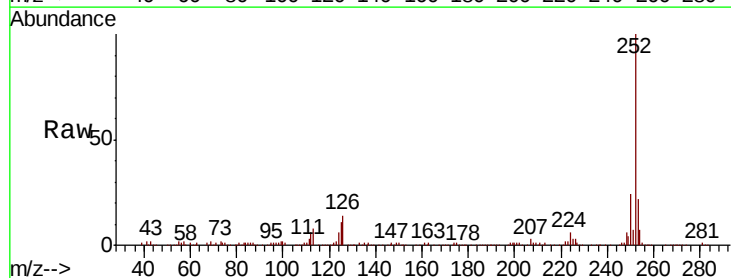
Tgt Ion:252 Resp: 402073

Ion Ratio Lower Upper

252 100

253 22.5 18.1 27.1

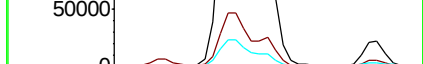
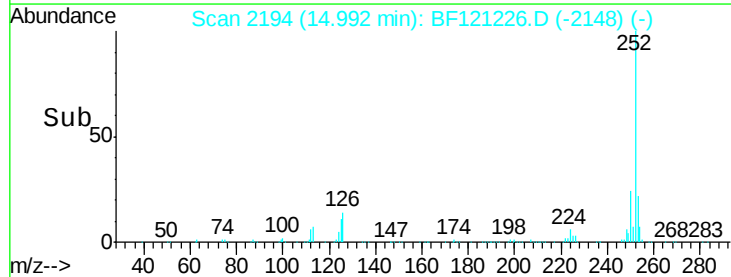
125 11.4 8.0 12.0



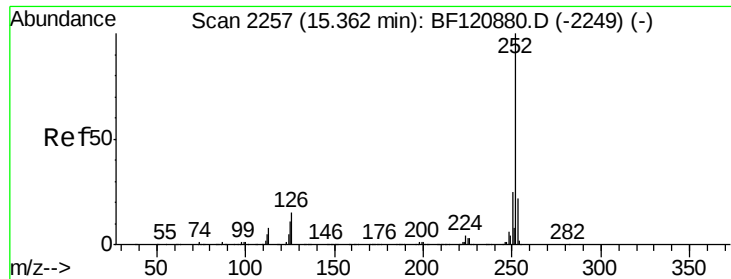
Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



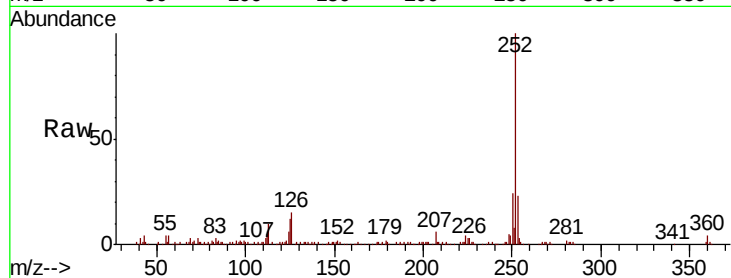
Time-->



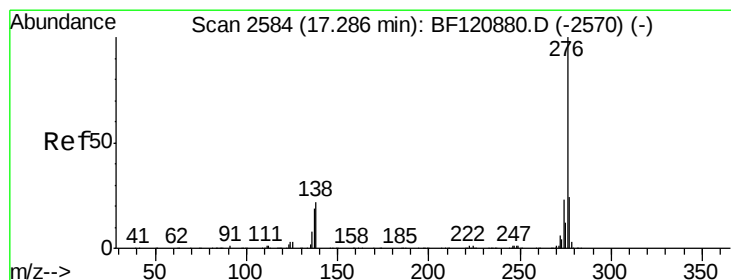
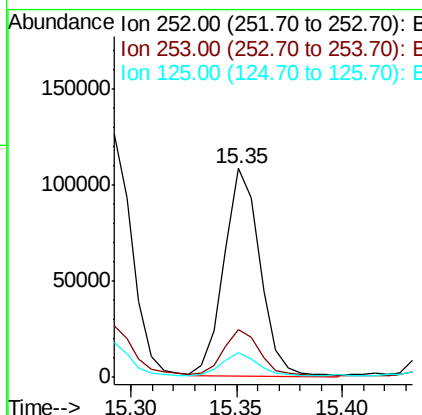
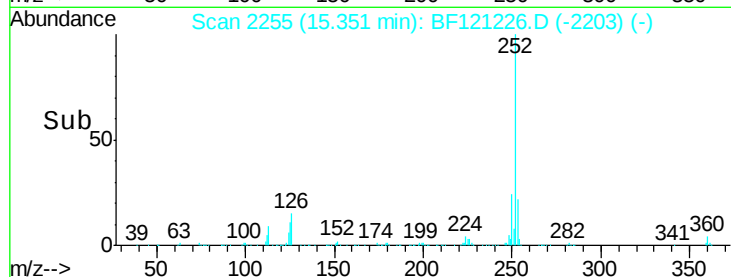
#90
Benzo(a)pyrene
Concen: 5.562 ng
RT: 15.35 min Scan# 2255
Delta R.T. 0.01 min
Lab File: BF121226.D
Acq: 7 Aug 2020 11:13

Instrument :
BNA_F
ClientSampleId :
CRT-017

Tot Ion:252 Resp: 127975
Ion Ratio Lower Upper
252 100
253 22.9 18.0 27.0
125 11.7 9.5 14.3

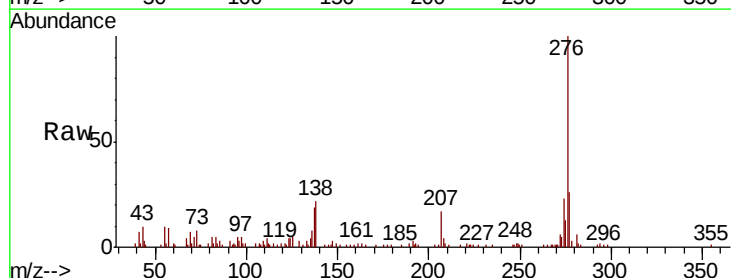


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#92
Benzo(g,h,i)perylene
Concen: 3.420 ng
RT: 17.28 min Scan# 2583
Delta R.T. 0.02 min
Lab File: BF121226.D
Acq: 7 Aug 2020 11:13

Tgt Ion:276 Resp: 79918
Ion Ratio Lower Upper
276 100
277 25.9 19.4 29.0
138 21.7 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

