

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072920\
 Data File : BF121123.D
 Acq On : 30 Jul 2020 2:04
 Operator : JU/CG
 Sample : L3436-16 5X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 16

Quant Time: Jul 30 03:11:32 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	6.81	152	159371	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	564840	20.00	ng	0.00
39) Acenaphthene-d10	9.85	164	280524	20.00	ng	0.00
64) Phenanthrene-d10	11.33	188	491425	20.00	ng	0.01
76) Chrysene-d12	13.97	240	403877	20.00	ng	0.01
86) Perylene-d12	15.43	264	314780	20.00	ng	0.03

System Monitoring Compounds						
5) 2-Fluorophenol	5.42	112	136335	14.02	ng	0.00
7) Phenol-d6	6.45	99	168068	13.38	ng	0.00
23) Nitrobenzene-d5	7.37	82	90797	9.30	ng	0.00
42) 2,4,6-Tribromophenol	10.63	330	36587	11.92	ng	0.00
45) 2-Fluorobiphenyl	9.16	172	211485	11.26	ng	0.00
79) Terphenyl-d14	12.92	244	201713	10.86	ng	0.00

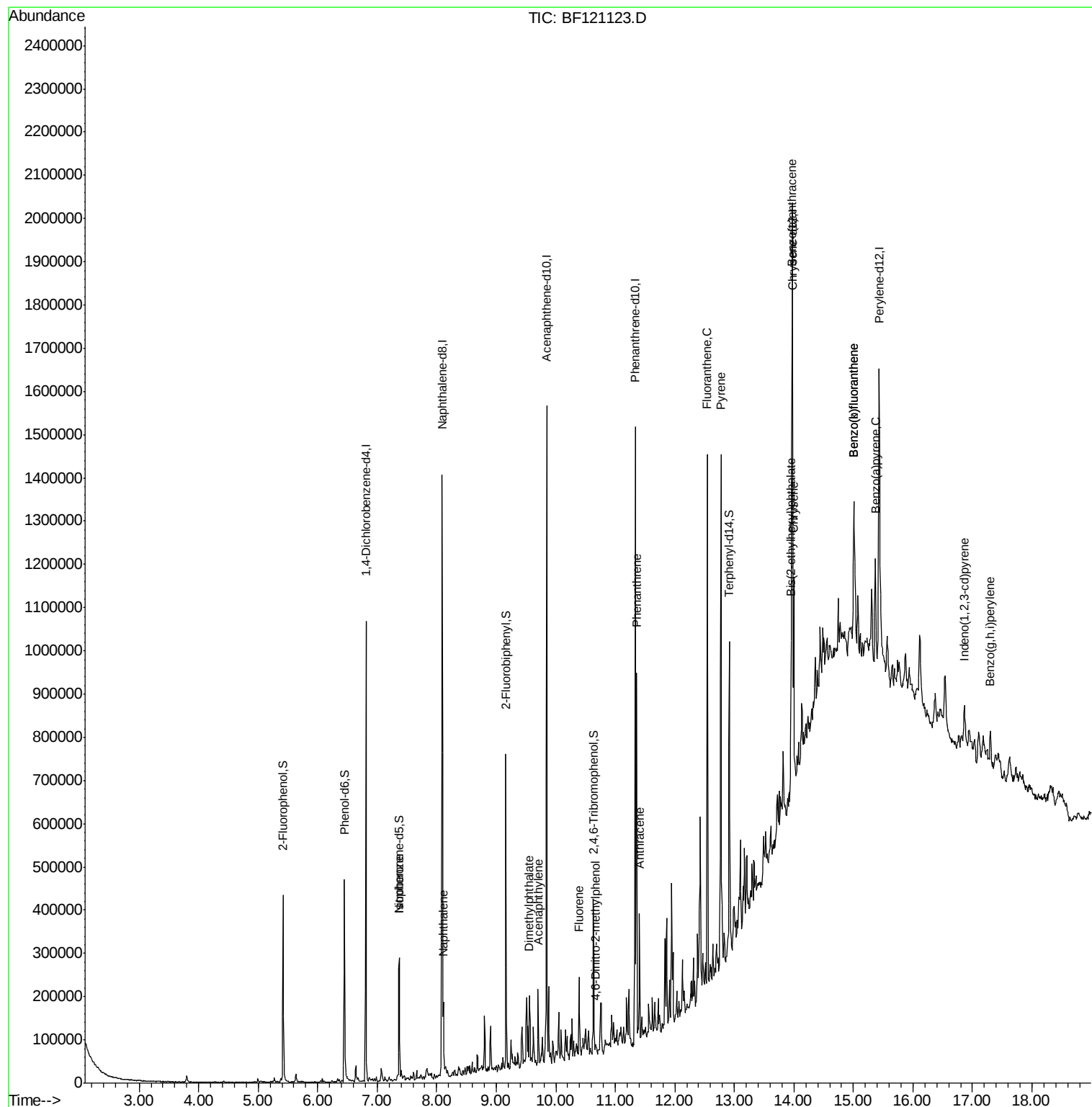
Target Compounds				Qvalue		
9) Benzaldehyde	6.36	77	503	Below Cal	#	1
25) Isophorone	7.37	82	87910	4.512	ng	63
31) Naphthalene	8.12	128	66804	2.306	ng	99
49) Acenaphthylene	9.70	152	58878	2.172	ng	98
50) Dimethylphthalate	9.56	163	45237	2.235	ng	99
58) Fluorene	10.39	166	43513	2.341	ng	98
65) 4,6-Dinitro-2-methylphenol	10.66	198	247	3.922	ng	1
71) Phenanthrene	11.36	178	290867	11.508	ng	99
72) Anthracene	11.40	178	114721	4.520	ng	97
75) Fluoranthene	12.54	202	475792	16.984	ng	98
78) Pyrene	12.77	202	489295	17.136	ng	98
81) Benzo(a)anthracene	13.96	228	208034	8.506	ng	95
83) Chrysene	14.00	228	188418	7.331	ng	96
84) Bis(2-ethylhexyl)phthalate	13.95	149	43144	2.749	ng	99
87) Indeno(1,2,3-cd)pyrene	16.87	276	63602	2.905	ng	98
88) Benzo(b)fluoranthene	15.01	252	224108	11.778	ng	91
89) Benzo(k)fluoranthene	15.01	252	224108	12.915	ng	91
90) Benzo(a)pyrene	15.37	252	119478	6.882	ng	92
92) Benzo(a,h,i)perylene	17.30	276	62131	3.524	ng	96

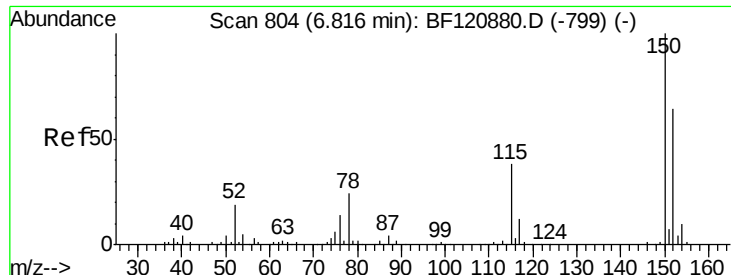
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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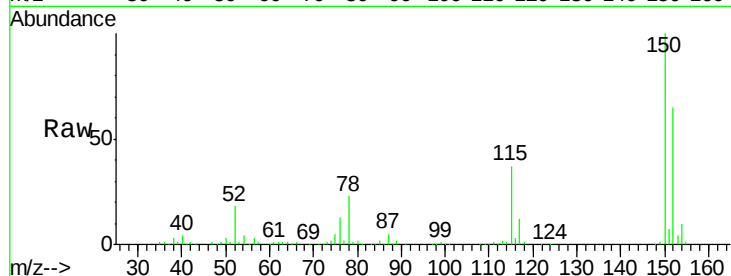


#1

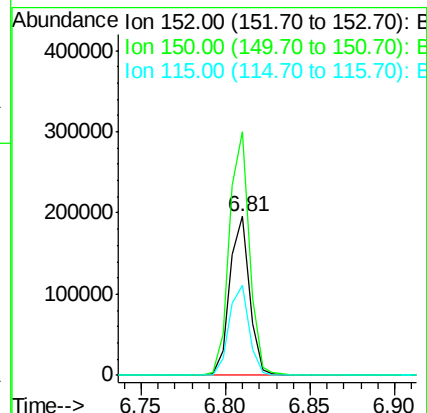
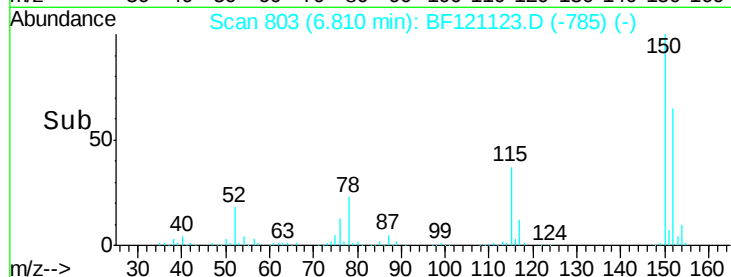
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.81 min Scan# 803
Delta R.T. 0.01 min
Lab File: BF121123.D
Acq: 30 Jul 2020 2:04

Instrument :
BNA_F
ClientSampled :
16

Tot Ion:152 Resp: 159371
Ion Ratio Lower Upper
152 100
150 153.4 125.6 188.4
115 56.5 46.2 69.2



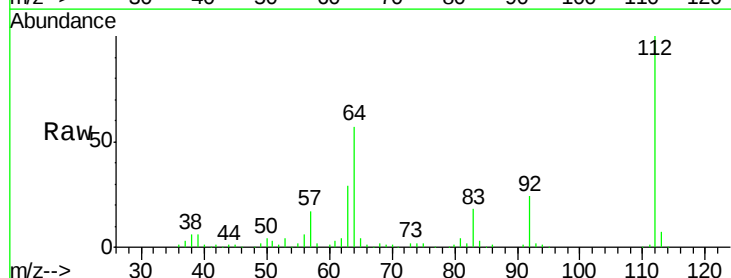
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



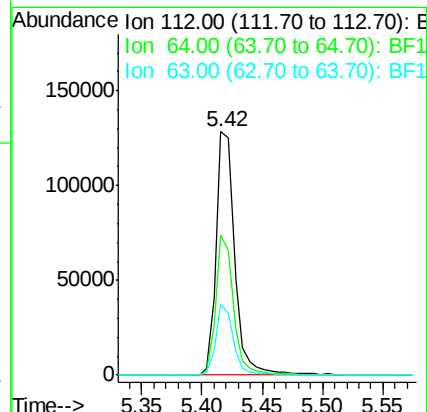
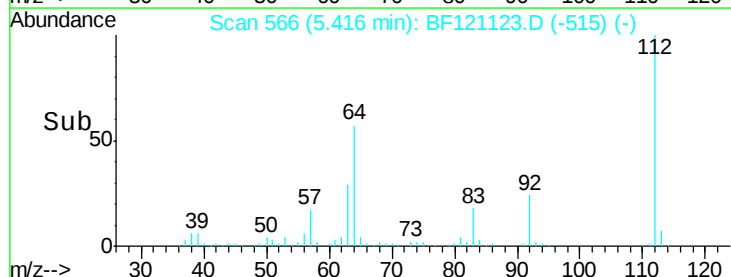
#5

2-Fluorophenol
Concen: 14.024 ng
RT: 5.42 min Scan# 566
Delta R.T. -0.00 min
Lab File: BF121123.D
Acq: 30 Jul 2020 2:04

Tgt Ion:112 Resp: 136335
Ion Ratio Lower Upper
112 100
64 57.4 43.9 65.9
63 29.3 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: 13.384 ng

RT: 6.45 min Scan# 741

Delta R.T. -0.00 min

Lab File: BF121123.D

Acq: 30 Jul 2020 2:04

Instrument :

BNA_F

ClientSampled :

16

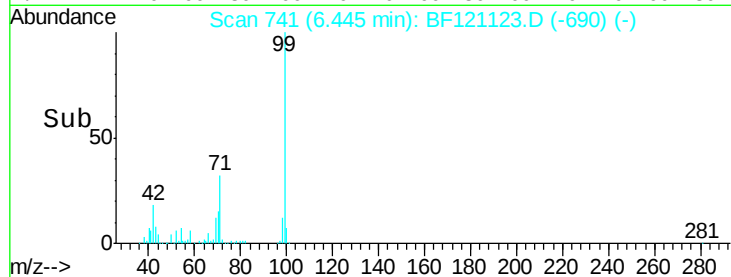
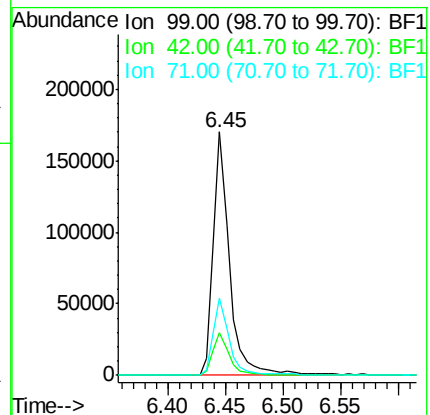
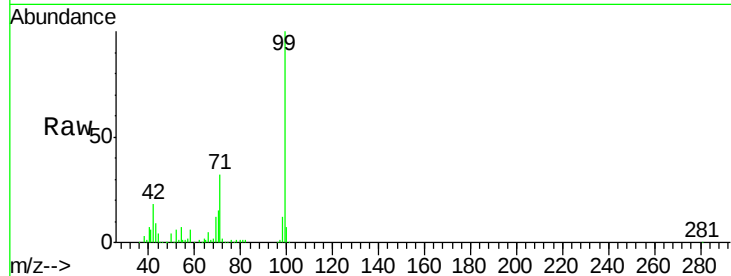
Tot Ion: 99 Resp: 168068

Ion Ratio Lower Upper

99 100

42 17.7 13.5 20.3

71 31.5 25.0 37.4



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.09 min Scan# 1021

Delta R.T. 0.01 min

Lab File: BF121123.D

Acq: 30 Jul 2020 2:04

Tgt Ion: 136 Resp: 564840

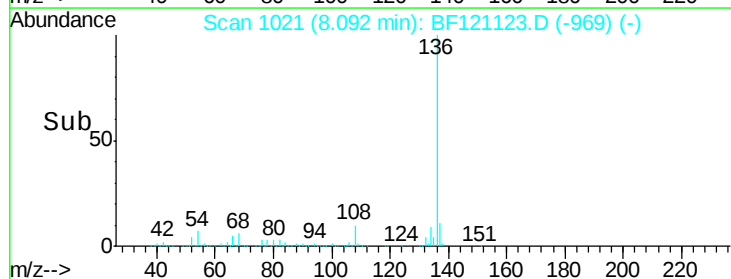
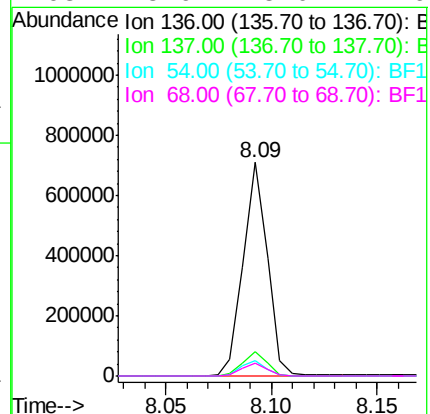
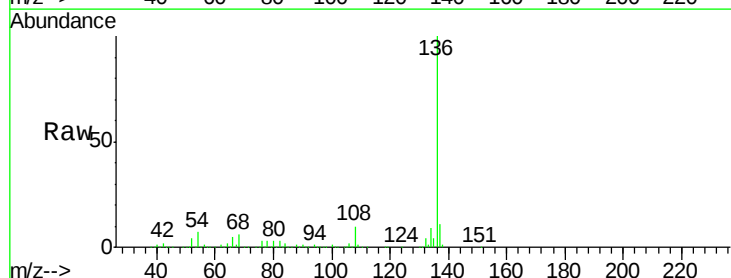
Ion Ratio Lower Upper

136 100

137 11.1 9.0 13.4

54 7.3 6.1 9.1

68 5.9 5.0 7.6

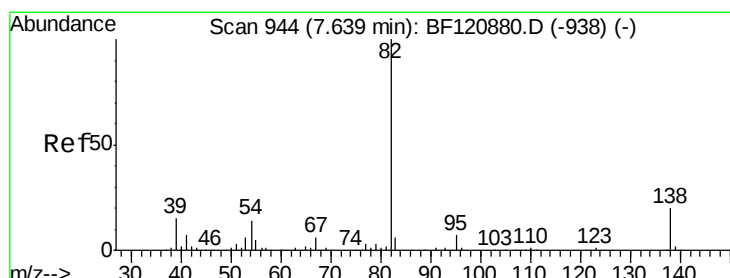
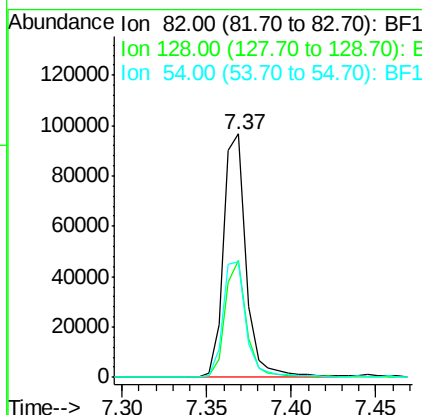
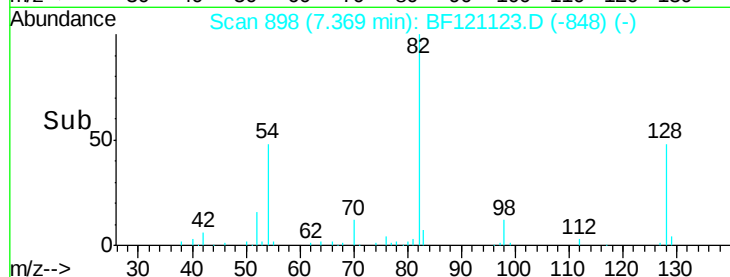
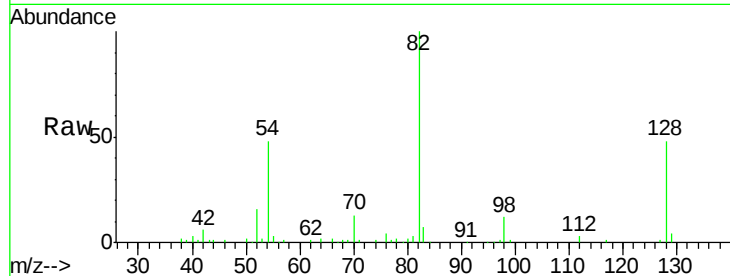




#23
Nitrobenzene-d5
Concen: 9.301 ng
RT: 7.37 min Scan# 898
Delta R.T. -0.01 min
Lab File: BF121123.D
Acq: 30 Jul 2020 2:04

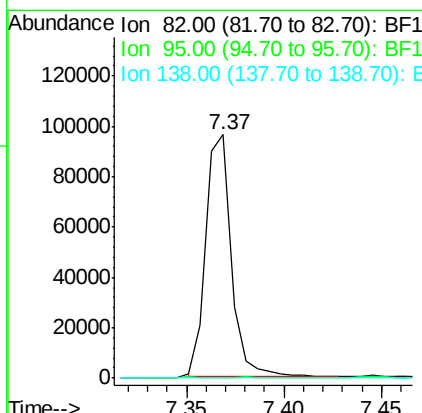
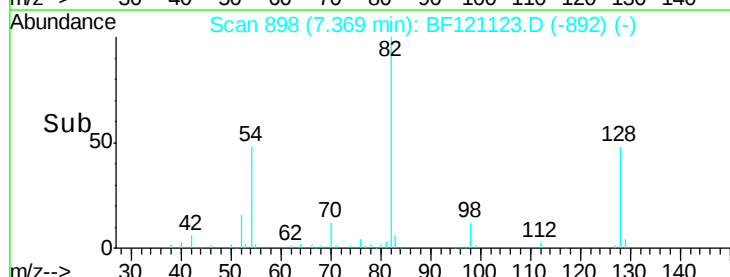
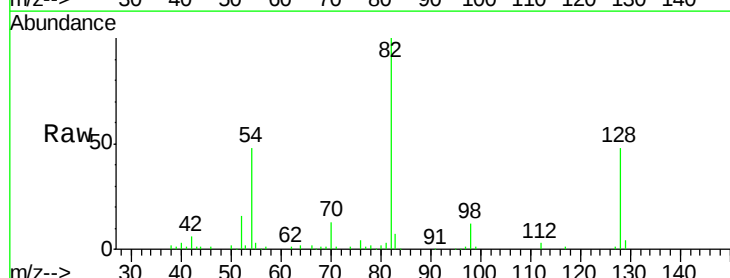
Instrument :
BNA_F
ClientSampleId :
16

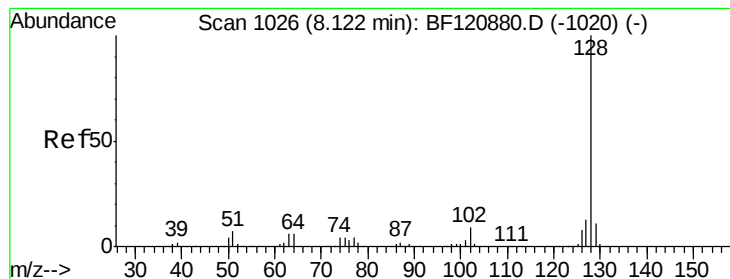
Tot Ion	Ratio	Lower	Upper
82	100		
128	48.2	39.2	58.8
54	47.7	37.8	56.8



#25
Isophorone
Concen: 4.512 ng
RT: 7.37 min Scan# 898
Delta R.T. -0.26 min
Lab File: BF121123.D
Acq: 30 Jul 2020 2:04

Tgt Ion	Ratio	Lower	Upper
82	100		
95	0.4	5.5	8.3#
138	0.0	16.2	24.2#





#31

Naphthalene

Concen: 2.306 ng

RT: 8.12 min Scan# 1025

Delta R.T. 0.01 min

Lab File: BF121123.D

Acq: 30 Jul 2020 2:04

Instrument :

BNA_F

ClientSampleId :

16

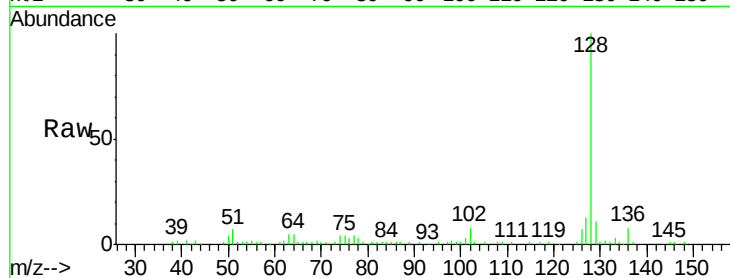
Tot Ion:128 Resp: 66804

Ion Ratio Lower Upper

128 100

129 11.3 9.3 13.9

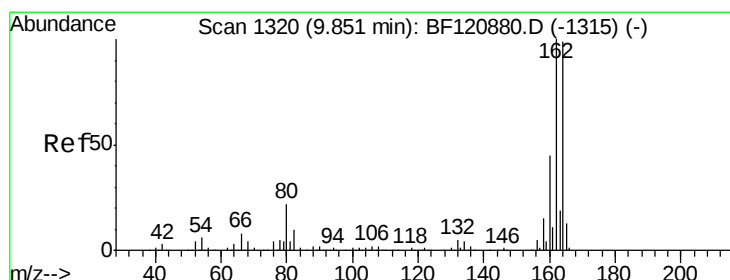
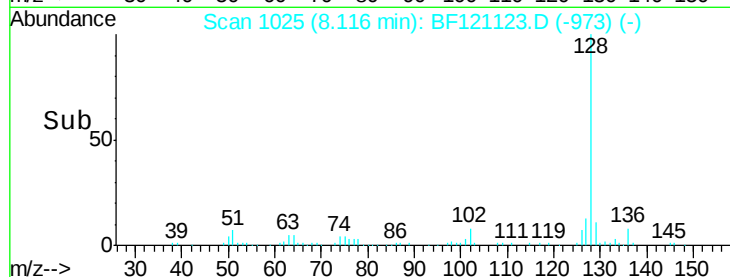
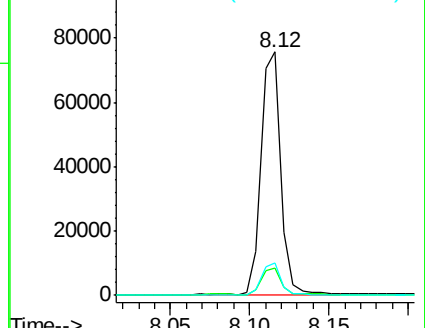
127 13.1 10.8 16.2



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.85 min Scan# 1319

Delta R.T. 0.01 min

Lab File: BF121123.D

Acq: 30 Jul 2020 2:04

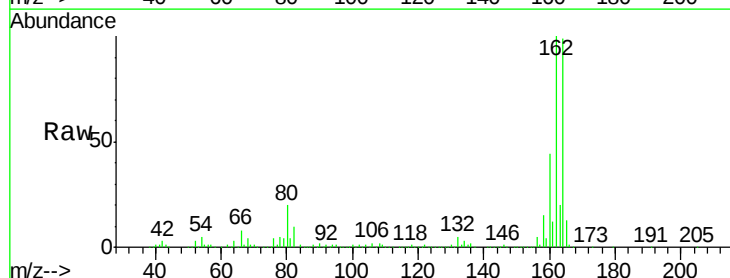
Tgt Ion:164 Resp: 280524

Ion Ratio Lower Upper

164 100

162 101.2 82.2 123.2

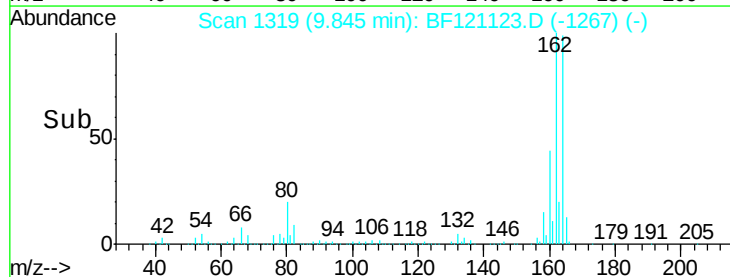
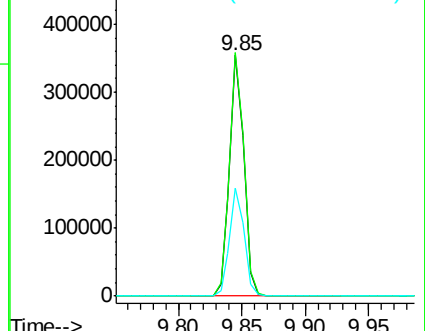
160 44.9 37.2 55.8



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

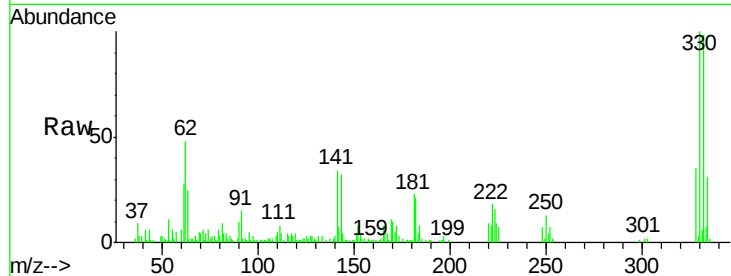




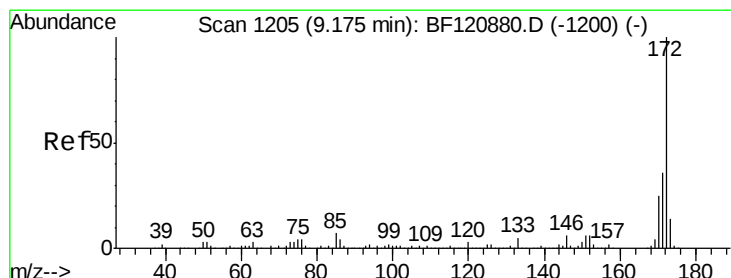
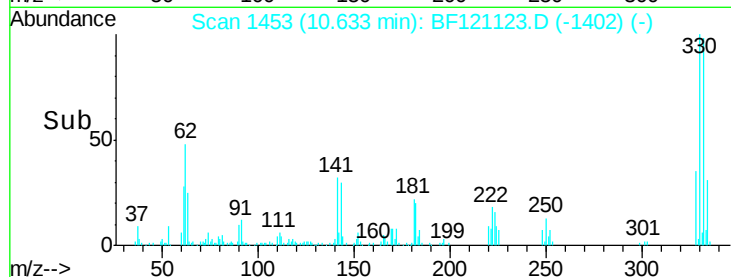
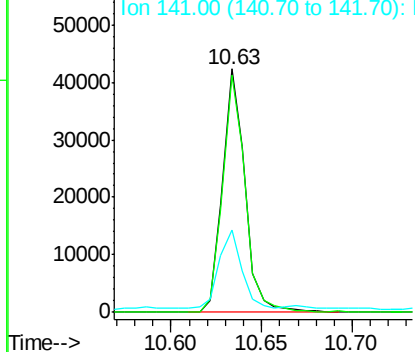
#42
 2,4,6-Tribromophenol
 Concen: 11.915 ng
 RT: 10.63 min Scan# 1453
 Delta R.T. -0.00 min
 Lab File: BF121123.D
 Acq: 30 Jul 2020 2:04

Instrument :
 BNA_F
 ClientSampleId :
 16

Tot Ion:330 Resp: 36587
 Ion Ratio Lower Upper
 330 100
 332 97.5 76.1 114.1
 141 32.7 24.1 36.1

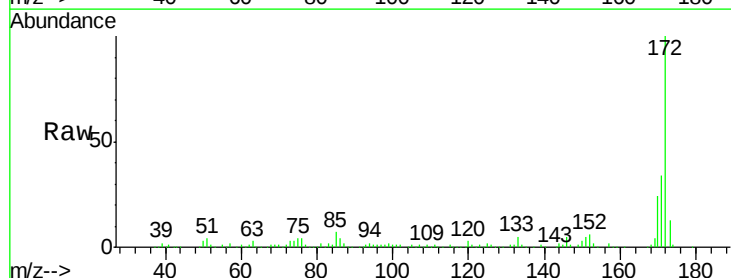


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

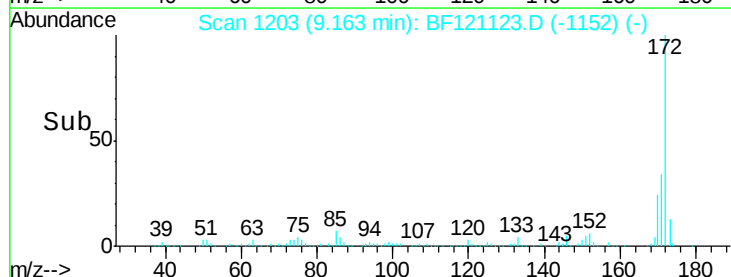
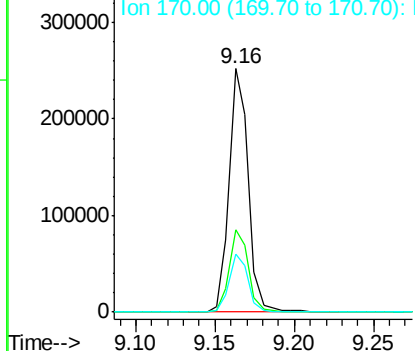


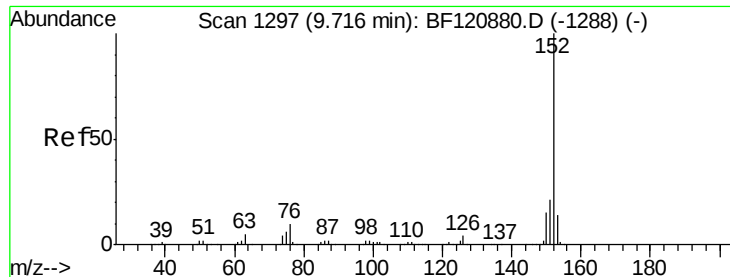
#45
 2-Fluorobiphenyl
 Concen: 11.256 ng
 RT: 9.16 min Scan# 1203
 Delta R.T. -0.00 min
 Lab File: BF121123.D
 Acq: 30 Jul 2020 2:04

Tgt Ion:172 Resp: 211485
 Ion Ratio Lower Upper
 172 100
 171 33.8 29.0 43.4
 170 23.7 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: 2.172 ng

RT: 9.70 min Scan# 1295

Delta R.T. -0.00 min

Lab File: BF121123.D

Acq: 30 Jul 2020 2:04

Instrument :

BNA_F

ClientSampleId :

16

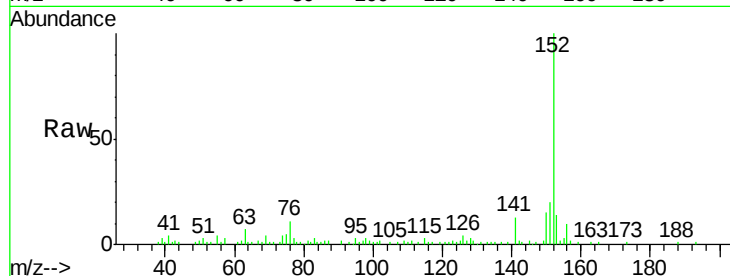
Tot Ion:152 Resp: 58878

Ion Ratio Lower Upper

152 100

151 20.0 16.6 25.0

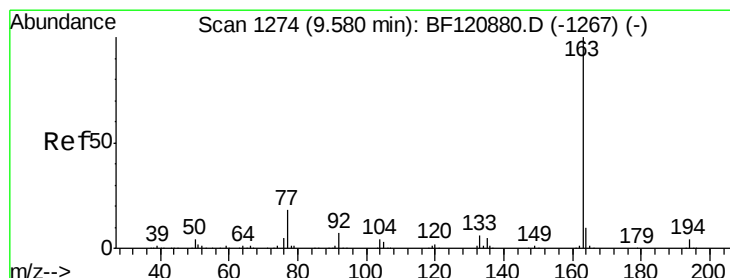
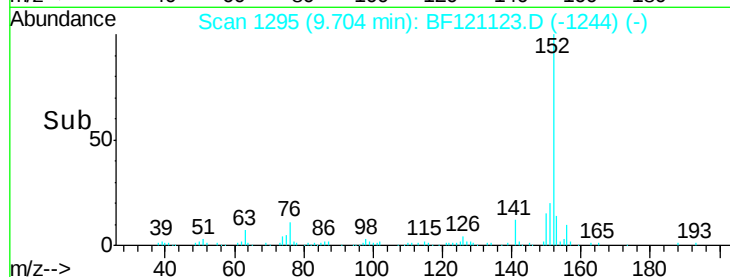
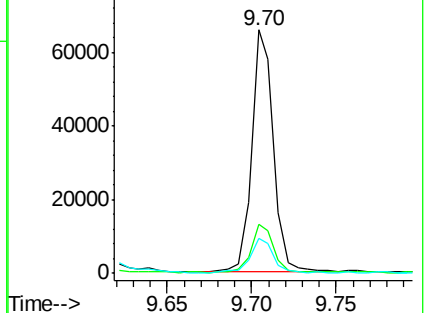
153 14.2 11.0 16.4



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



#50

Dimethylphthalate

Concen: 2.235 ng

RT: 9.56 min Scan# 1270

Delta R.T. -0.01 min

Lab File: BF121123.D

Acq: 30 Jul 2020 2:04

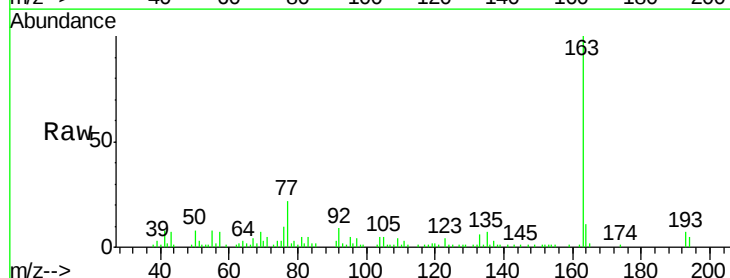
Tgt Ion:163 Resp: 45237

Ion Ratio Lower Upper

163 100

194 5.0 3.0 4.4#

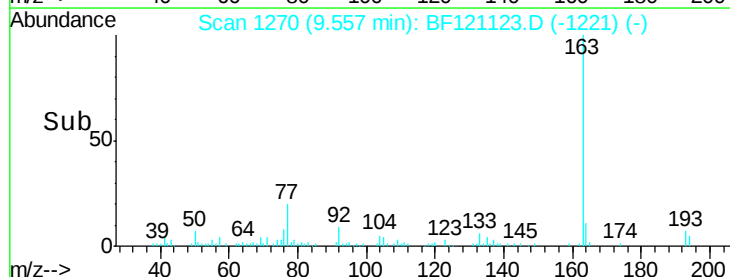
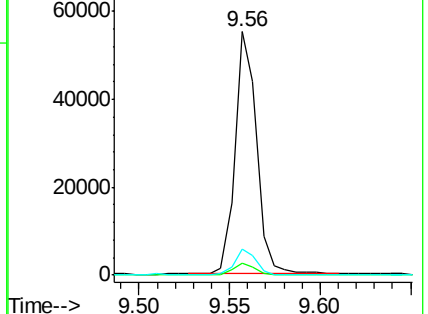
164 10.7 8.4 12.6

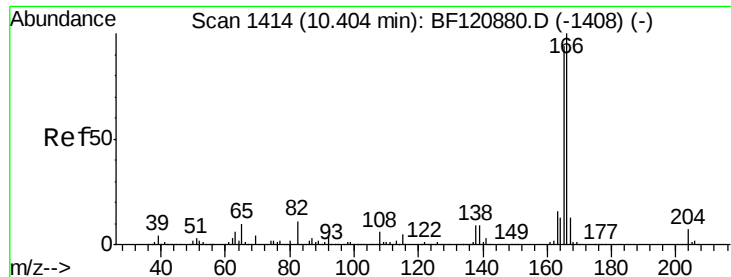


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

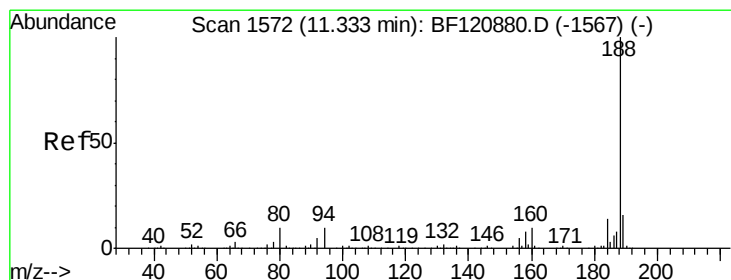
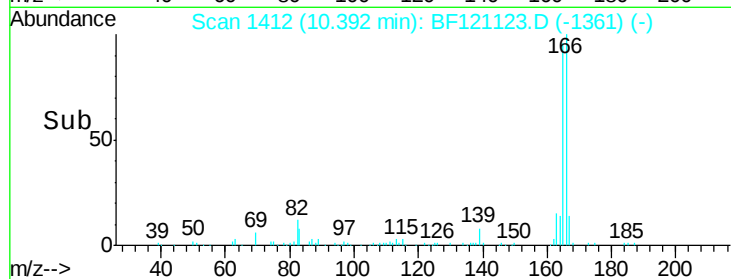
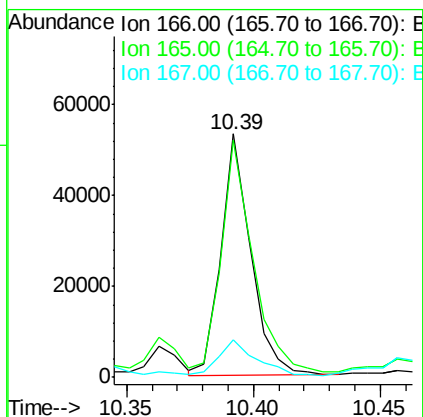
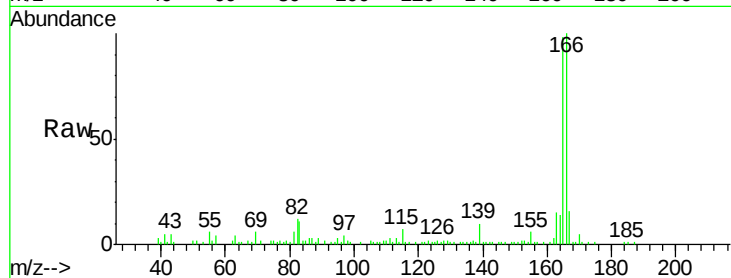




#58
 Fluorene
 Concen: 2.341 ng
 RT: 10.39 min Scan# 1412
 Delta R.T. -0.00 min
 Lab File: BF121123.D
 Acq: 30 Jul 2020 2:04

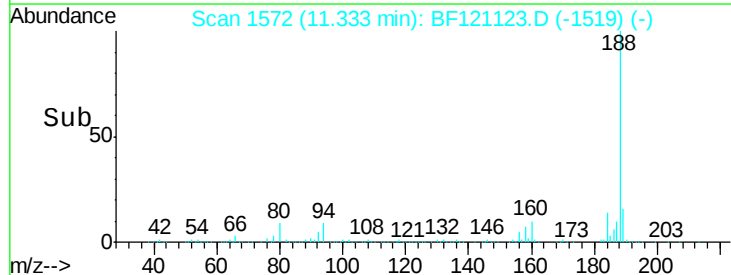
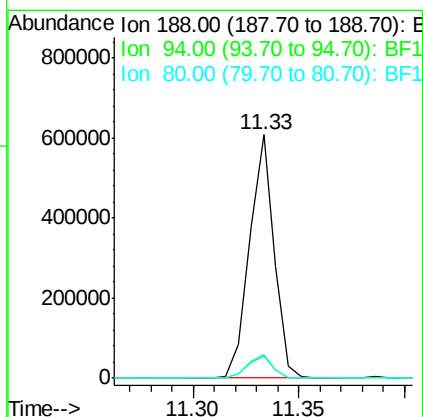
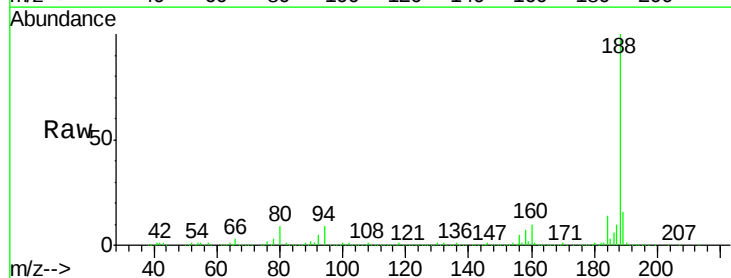
Instrument :
 BNA_F
 ClientSampleId :
 16

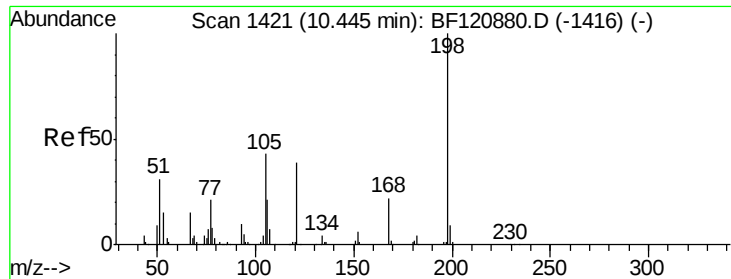
Tot Ion:166 Resp: 43513
 Ion Ratio Lower Upper
 166 100
 165 97.5 76.4 114.6
 167 15.5 10.7 16.1



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.33 min Scan# 1572
 Delta R.T. 0.01 min
 Lab File: BF121123.D
 Acq: 30 Jul 2020 2:04

Tgt Ion:188 Resp: 491425
 Ion Ratio Lower Upper
 188 100
 94 9.1 8.0 12.0
 80 9.4 8.3 12.5

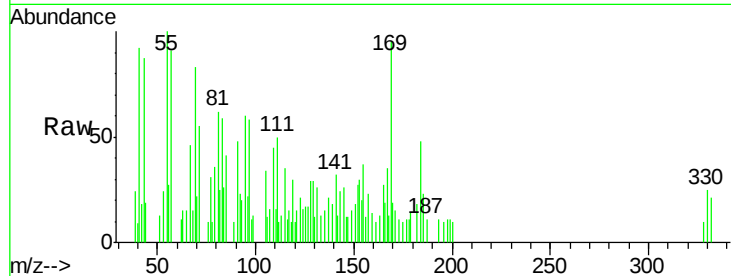




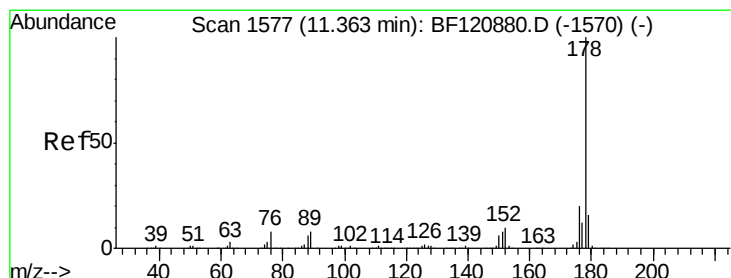
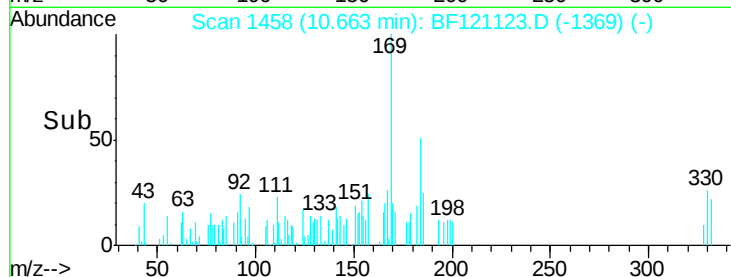
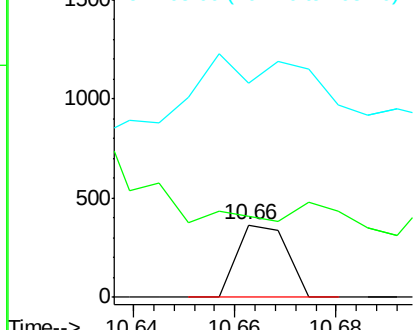
#65
 4,6-Dinitro-2-methylphenol
 Concen: 3.922 ng
 RT: 10.66 min Scan# 1458
 Delta R.T. 0.22 min
 Lab File: BF121123.D
 Acq: 30 Jul 2020 2:04

Instrument :
 BNA_F
 ClientSampleId :
 16

Tot Ion:198 Resp: 247
 Ion Ratio Lower Upper
 198 100
 51 111.5 23.4 63.4#
 105 295.9 23.7 63.7#

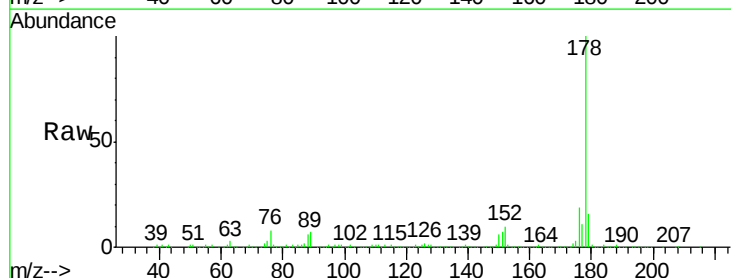


Abundance Ion 198.00 (197.70 to 198.70): E
 Ion 51.00 (50.70 to 51.70): BF1
 Ion 105.00 (104.70 to 105.70): E

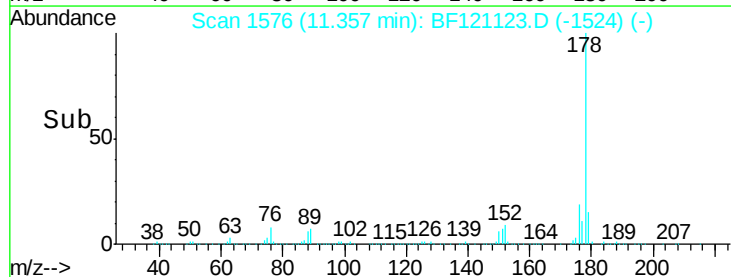
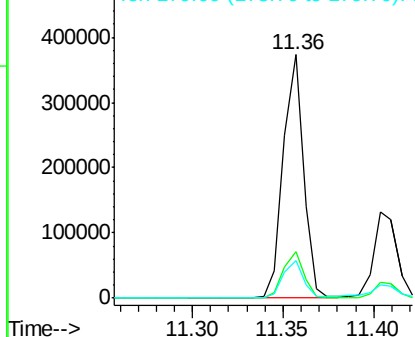


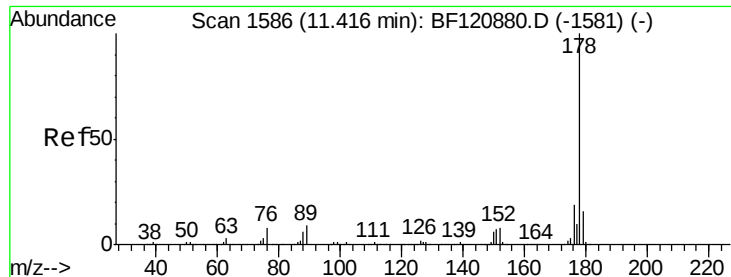
#71
 Phenanthrene
 Concen: 11.508 ng
 RT: 11.36 min Scan# 1576
 Delta R.T. 0.01 min
 Lab File: BF121123.D
 Acq: 30 Jul 2020 2:04

Tgt Ion:178 Resp: 290867
 Ion Ratio Lower Upper
 178 100
 176 19.3 16.2 24.2
 179 15.5 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: 4.520 ng

RT: 11.40 min Scan# 1584

Delta R.T. -0.00 min

Lab File: BF121123.D

Acq: 30 Jul 2020 2:04

Instrument :

BNA_F

ClientSampleId :

16

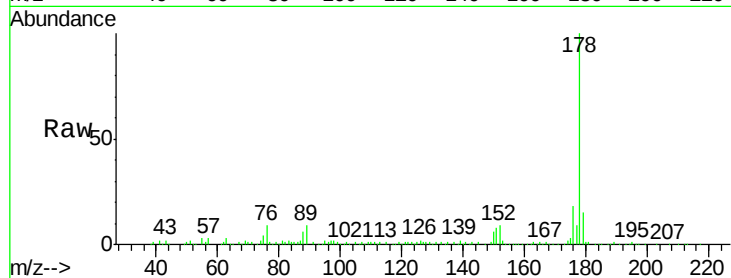
Tot Ion:178 Resp: 114721

Ion Ratio Lower Upper

178 100

176 17.9 15.8 23.8

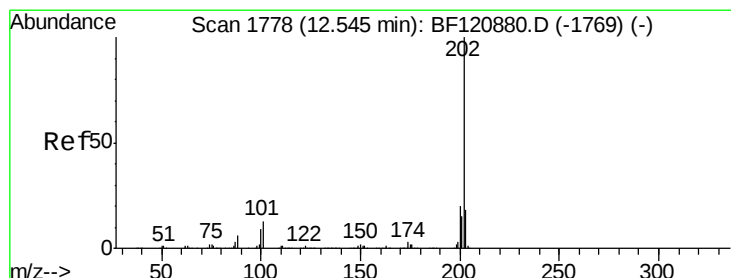
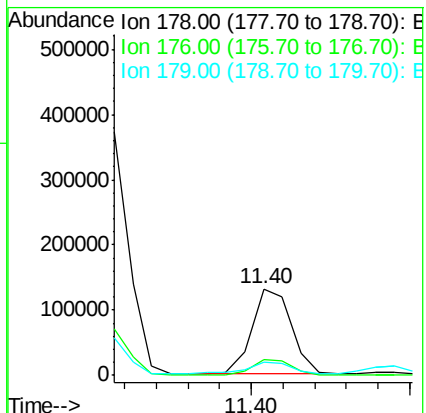
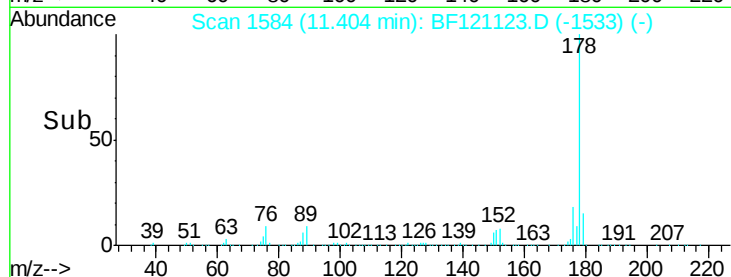
179 15.2 12.6 19.0



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: 16.984 ng

RT: 12.54 min Scan# 1778

Delta R.T. 0.01 min

Lab File: BF121123.D

Acq: 30 Jul 2020 2:04

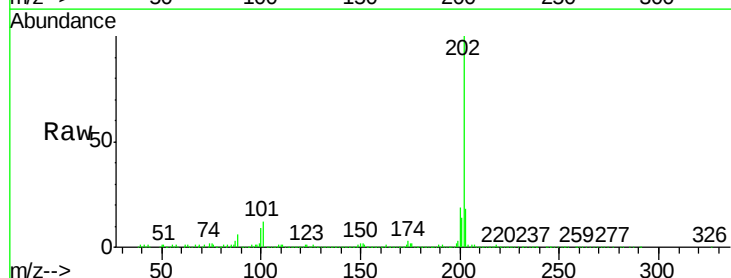
Tgt Ion:202 Resp: 475792

Ion Ratio Lower Upper

202 100

101 12.0 0.0 30.5

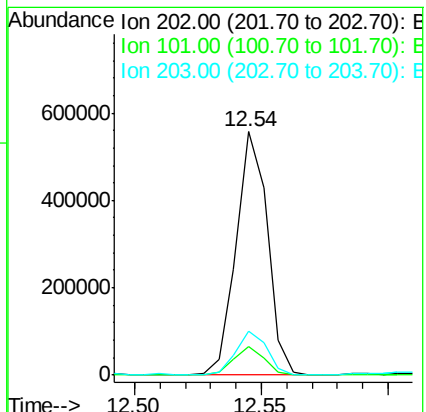
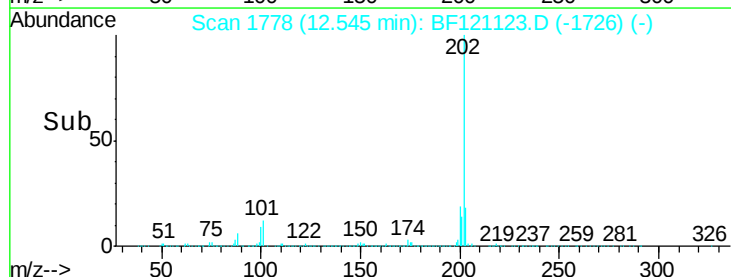
203 17.9 0.0 37.7

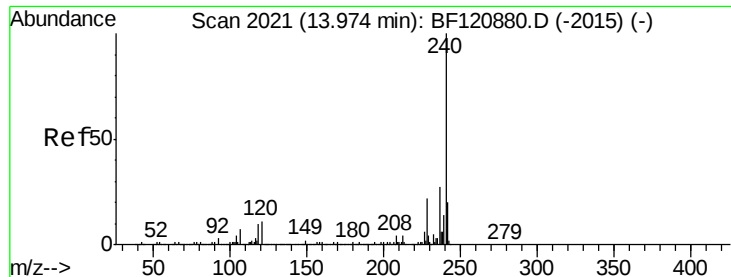


Abundance Ion 202.00 (201.70 to 202.70): E

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: BF121123.D

Acq: 30 Jul 2020 2:04

Instrument :

BNA_F

ClientSampleId :

16

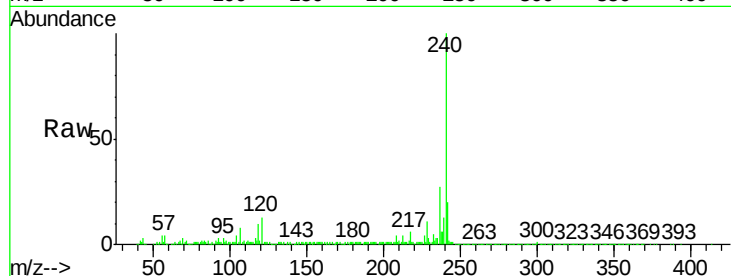
Tot Ion:240 Resp: 403877

Ion Ratio Lower Upper

240 100

120 12.6 9.3 13.9

236 26.7 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

600000

500000

400000

300000

200000

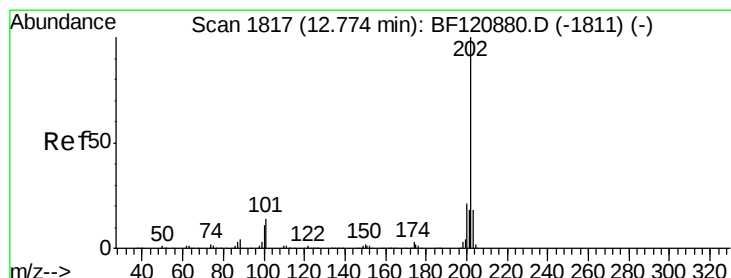
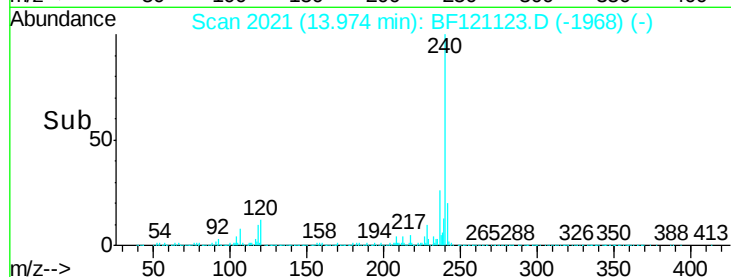
100000

0

13.90

14.00

Time-->



#78

Pyrene

Concen: 17.136 ng

RT: 12.77 min Scan# 1817

Delta R.T. 0.01 min

Lab File: BF121123.D

Acq: 30 Jul 2020 2:04

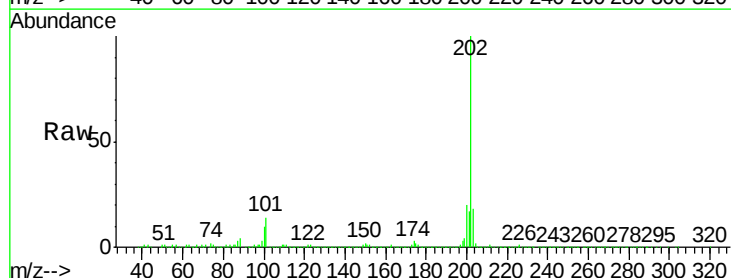
Tgt Ion:202 Resp: 489295

Ion Ratio Lower Upper

202 100

200 20.2 17.0 25.6

203 17.9 14.6 21.8



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

600000

400000

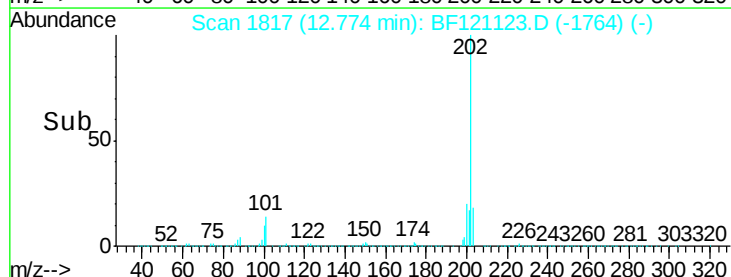
200000

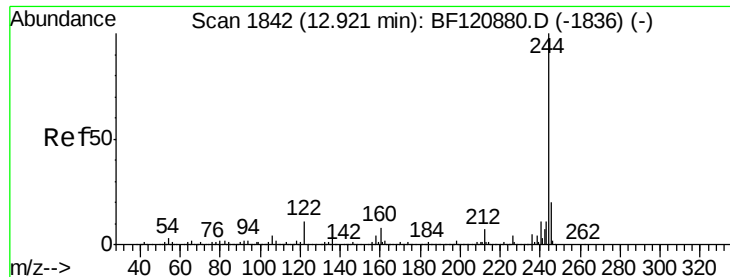
0

12.75

12.80

Time-->

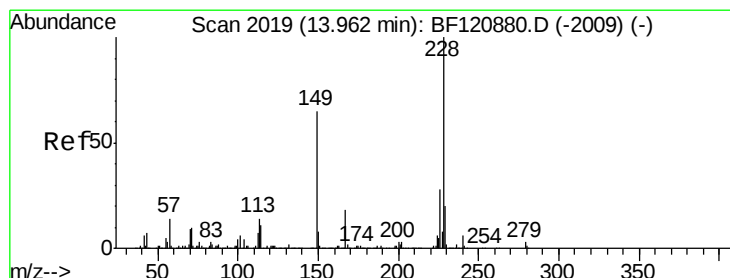
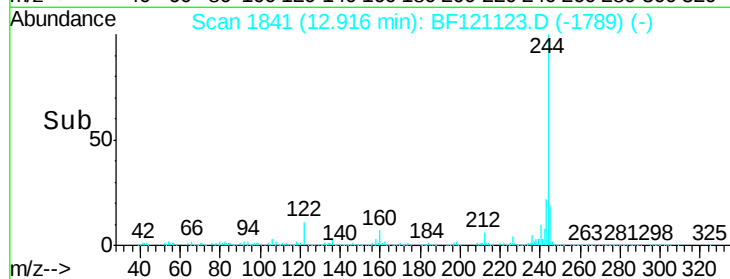
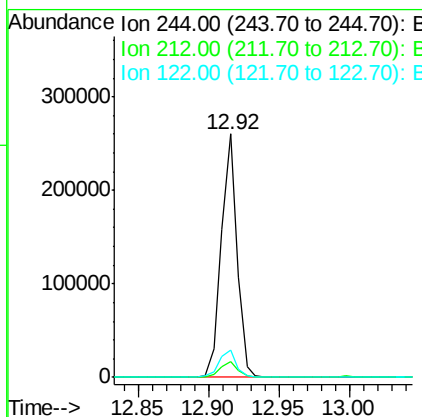
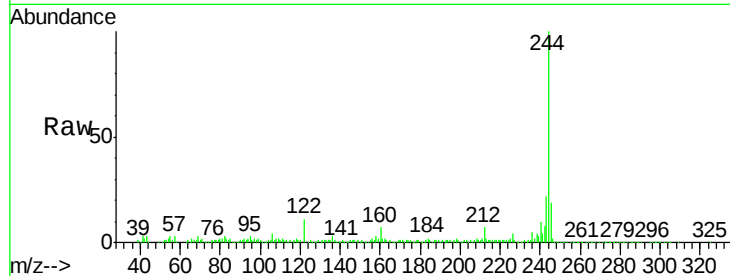




#79
 Terphenyl-d14
 Concen: 10.857 ng
 RT: 12.92 min Scan# 1841
 Delta R.T. 0.01 min
 Lab File: BF121123.D
 Acq: 30 Jul 2020 2:04

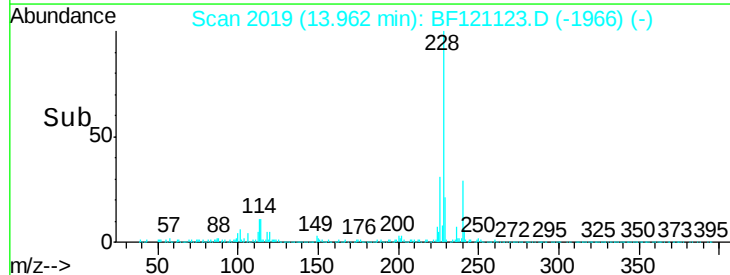
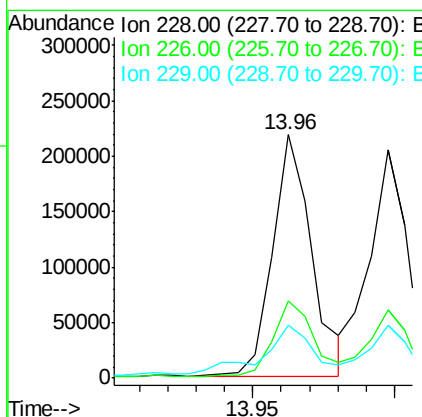
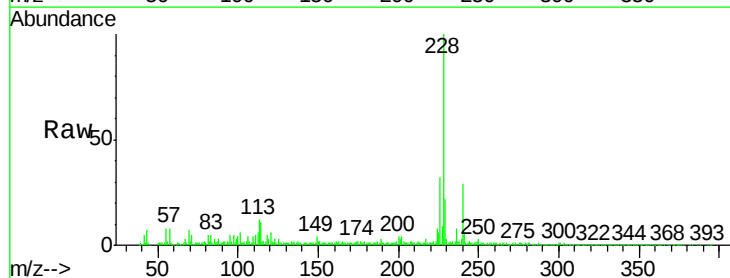
Instrument :
 BNA_F
 ClientSampleId :
 16

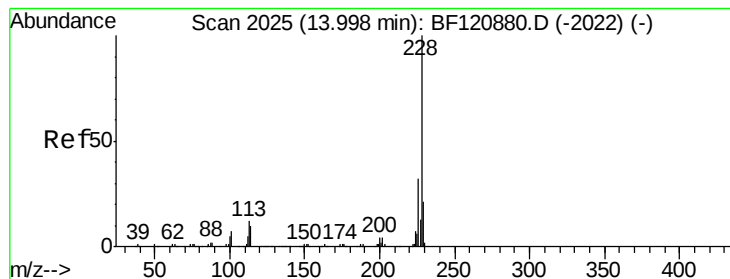
Tot Ion:244 Resp: 201713
 Ion Ratio Lower Upper
 244 100
 212 6.6 5.7 8.5
 122 11.2 8.3 12.5



#81
 Benzo(a)anthracene
 Concen: 8.506 ng
 RT: 13.96 min Scan# 2019
 Delta R.T. 0.01 min
 Lab File: BF121123.D
 Acq: 30 Jul 2020 2:04

Tgt Ion:228 Resp: 208034
 Ion Ratio Lower Upper
 228 100
 226 31.6 22.6 34.0
 229 21.7 16.1 24.1





#83

Chrysene

Concen: 7.331 ng

RT: 14.00 min Scan# 2025

Delta R.T. 0.01 min

Lab File: BF121123.D

Acq: 30 Jul 2020 2:04

Instrument :

BNA_F

ClientSampleId :

16

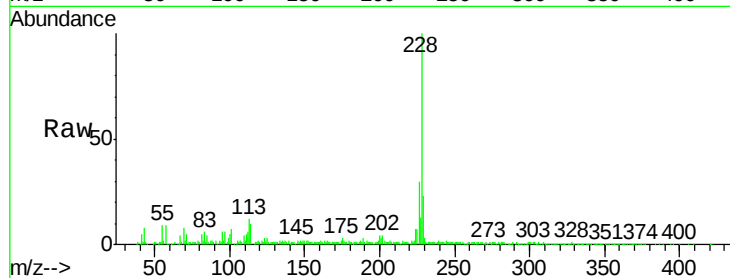
Tot Ion:228 Resp: 188418

Ion Ratio Lower Upper

228 100

226 30.0 25.4 38.0

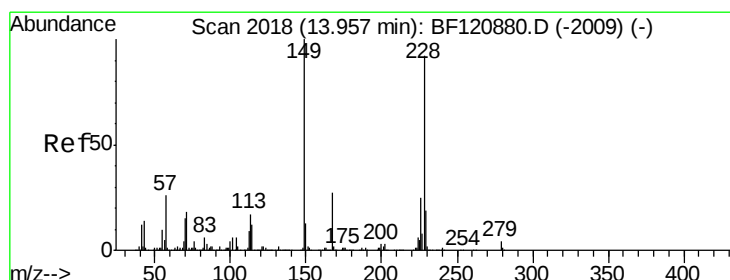
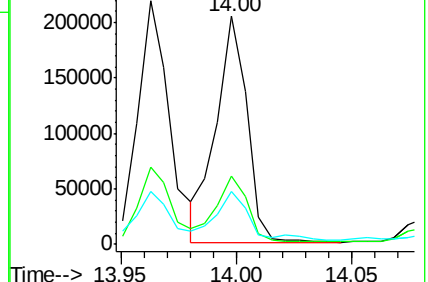
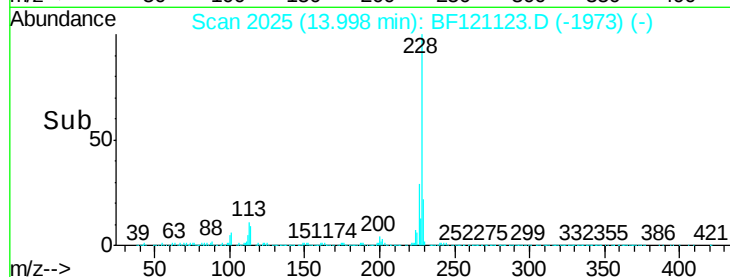
229 23.1 16.2 24.4



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



#84

Bis(2-ethylhexyl)phthalate

Concen: 2.749 ng

RT: 13.95 min Scan# 2017

Delta R.T. 0.01 min

Lab File: BF121123.D

Acq: 30 Jul 2020 2:04

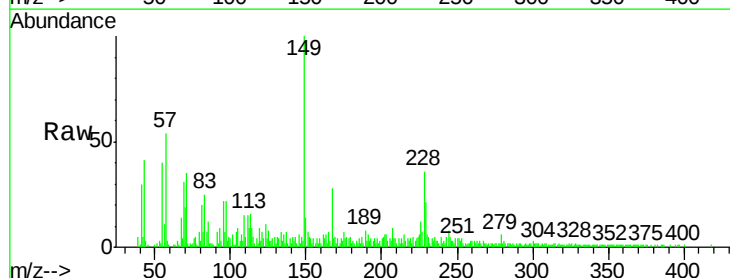
Tgt Ion:149 Resp: 43144

Ion Ratio Lower Upper

149 100

167 27.6 21.8 32.6

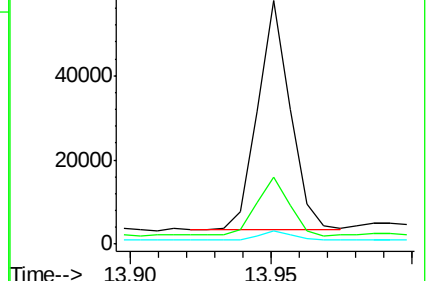
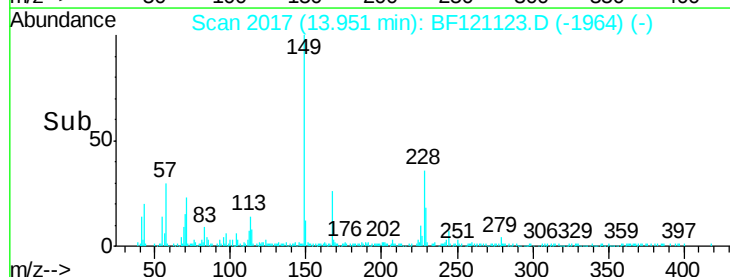
279 5.6 2.9 4.3#

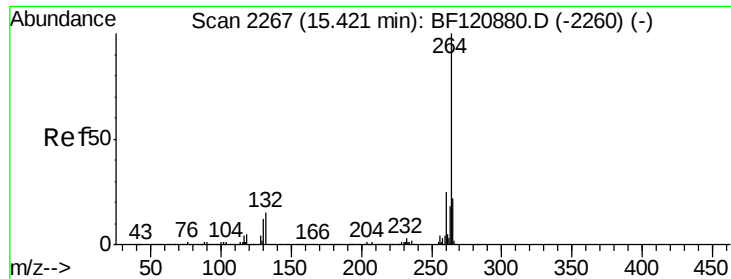


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



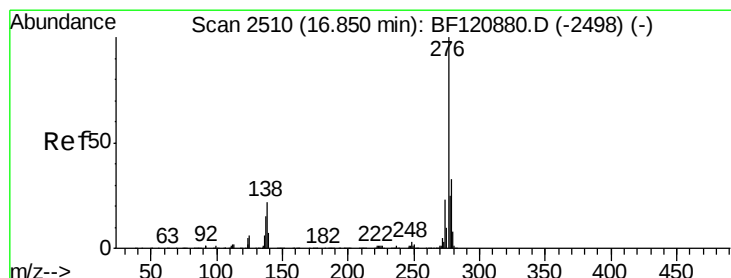
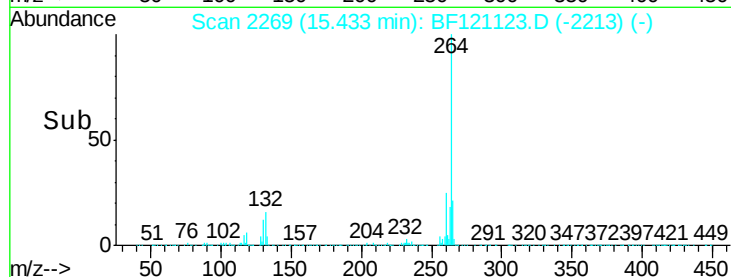
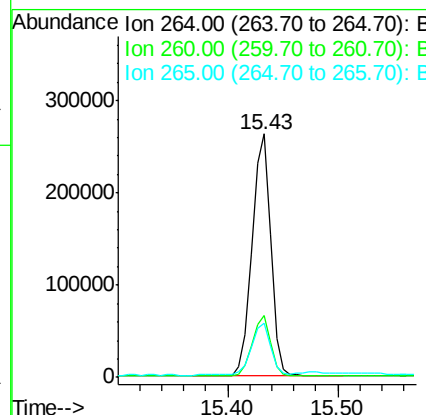
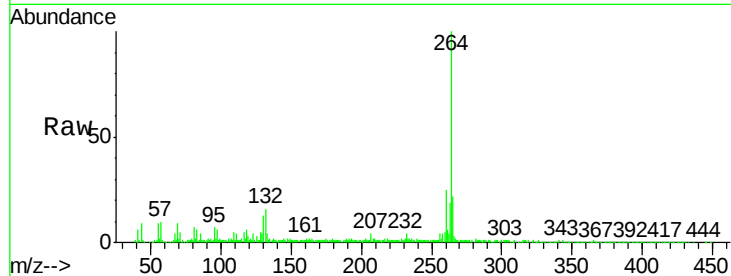


#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.43 min Scan# 2269
Delta R.T. 0.03 min
Lab File: BF121123.D
Acq: 30 Jul 2020 2:04

Instrument :
BNA_F
ClientSampleId :
16

Tot Ion:264 Resp: 314780

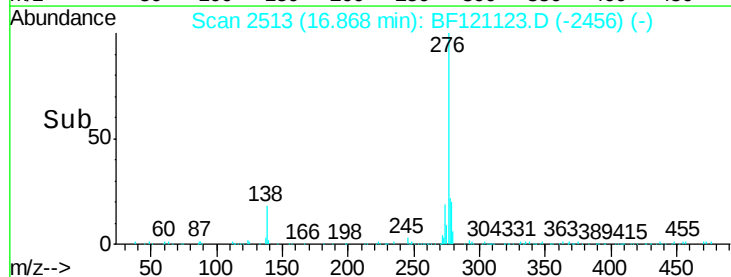
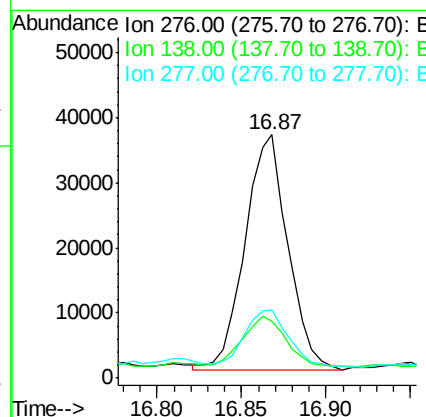
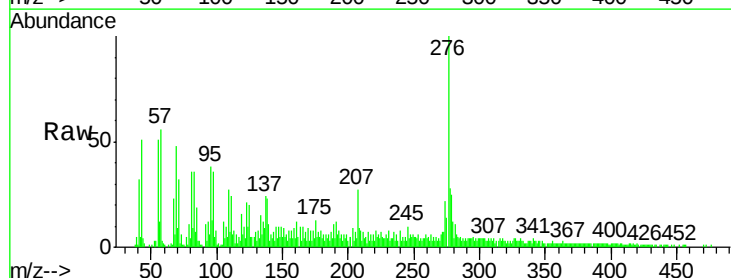
Ion	Ratio	Lower	Upper
264	100		
260	25.2	19.9	29.9
265	22.2	17.8	26.8

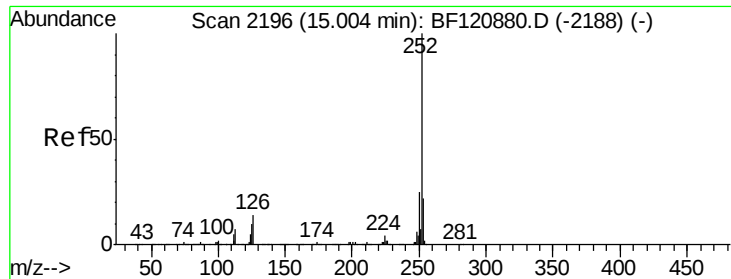


#87
Indeno(1,2,3-cd)pyrene
Concen: 2.905 ng
RT: 16.87 min Scan# 2513
Delta R.T. 0.04 min
Lab File: BF121123.D
Acq: 30 Jul 2020 2:04

Tgt Ion:276 Resp: 63602

Ion	Ratio	Lower	Upper
276	100		
138	22.6	19.3	28.9
277	25.5	20.1	30.1





#88

Benzo(b)fluoranthene

Concen: 11.778 ng

RT: 15.01 min Scan# 2197

Delta R.T. 0.02 min

Lab File: BF121123.D

Acq: 30 Jul 2020 2:04

Instrument :

BNA_F

ClientSampleId :

16

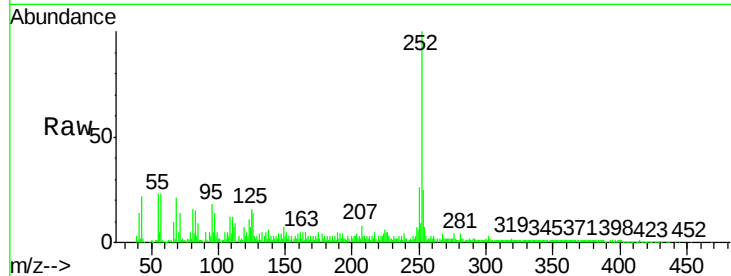
Tot Ion:252 Resp: 224108

Ion Ratio Lower Upper

252 100

253 25.4 17.9 26.9

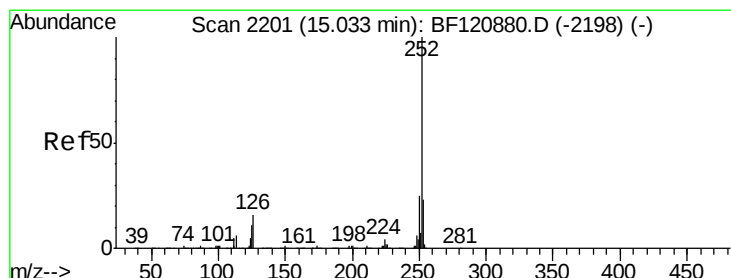
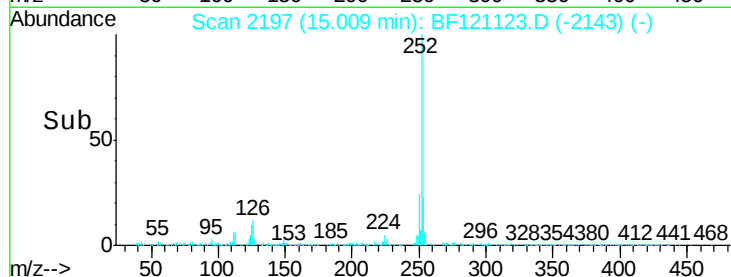
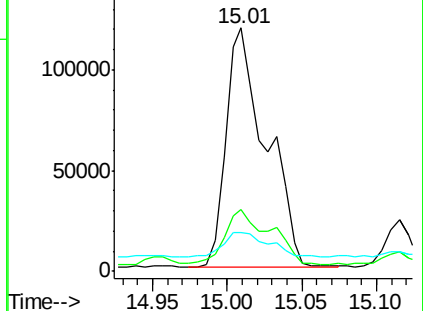
125 16.1 8.1 12.1#



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



#89

Benzo(k)fluoranthene

Concen: 12.915 ng

RT: 15.01 min Scan# 2197

Delta R.T. -0.01 min

Lab File: BF121123.D

Acq: 30 Jul 2020 2:04

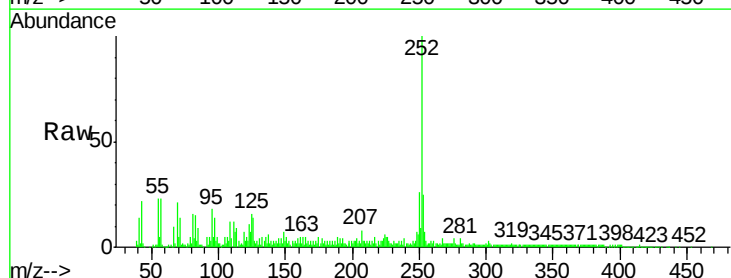
Tgt Ion:252 Resp: 224108

Ion Ratio Lower Upper

252 100

253 25.4 18.1 27.1

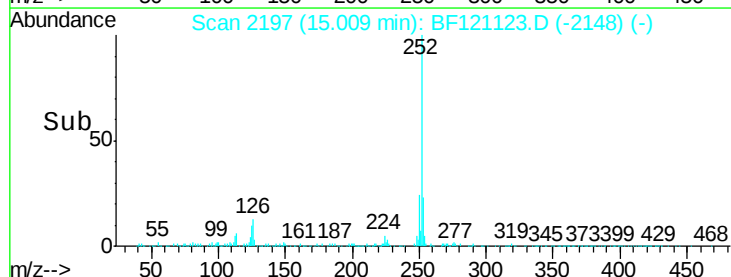
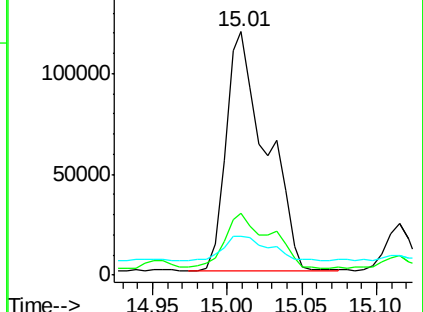
125 16.1 8.0 12.0#

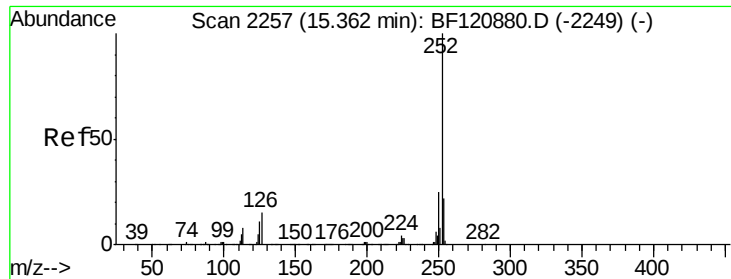


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Benzo(a)pyrene

Concen: 6.882 ng

RT: 15.37 min Scan# 2258

Delta R.T. 0.02 min

Lab File: BF121123.D

Acq: 30 Jul 2020 2:04

Instrument :

BNA_F

ClientSampled :

16

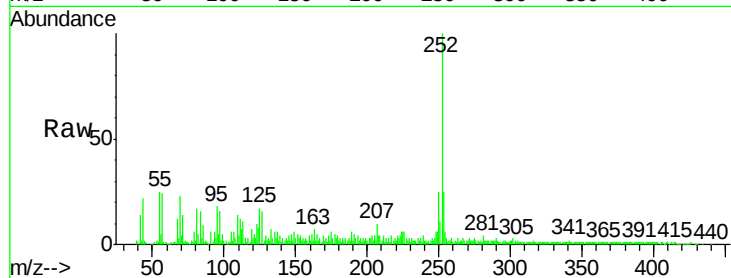
Tot Ion:252 Resp: 119478

Ion Ratio Lower Upper

252 100

253 25.1 18.0 27.0

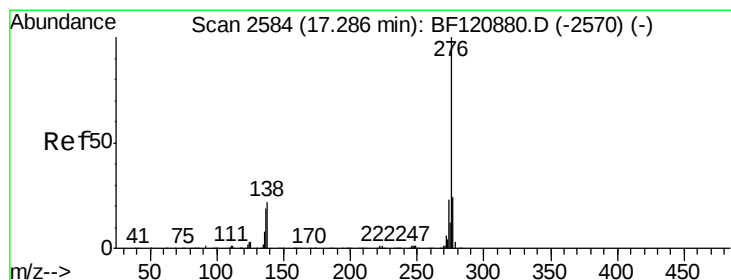
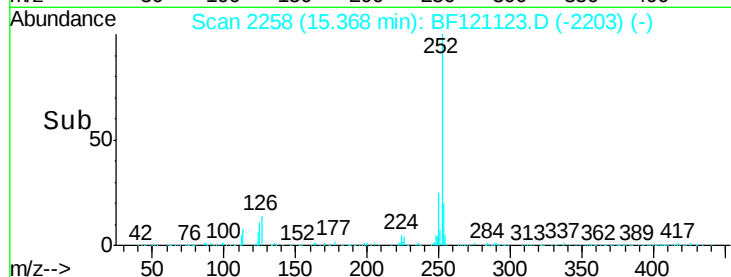
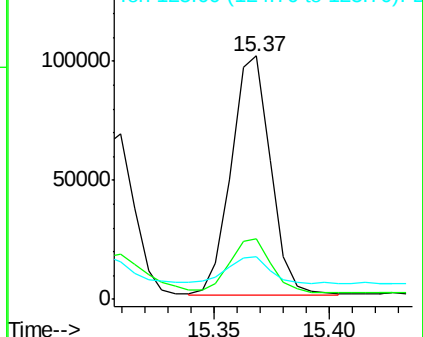
125 17.4 9.5 14.3#



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: 3.524 ng

RT: 17.30 min Scan# 2587

Delta R.T. 0.04 min

Lab File: BF121123.D

Acq: 30 Jul 2020 2:04

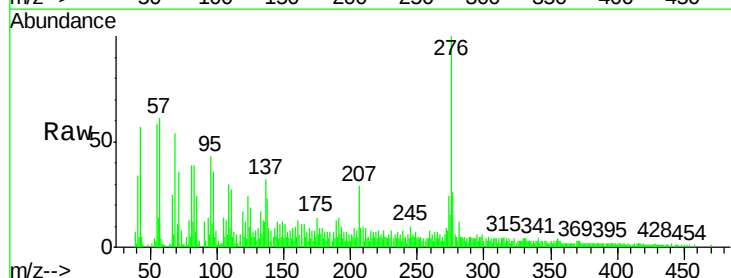
Tgt Ion:276 Resp: 62131

Ion Ratio Lower Upper

276 100

277 26.4 19.4 29.0

138 23.3 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

