

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072920\
 Data File : BF121121.D
 Acq On : 30 Jul 2020 1:04
 Operator : JU/CG
 Sample : L3436-04 5X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 4

Quant Time: Jul 30 03:10:44 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	174079	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	626339	20.00	ng	0.00
39) Acenaphthene-d10	9.85	164	292768	20.00	ng	0.00
64) Phenanthrene-d10	11.33	188	517336	20.00	ng	0.01
76) Chrysene-d12	13.97	240	446366	20.00	ng	0.01
86) Perylene-d12	15.43	264	344291	20.00	ng	0.02

System Monitoring Compounds						
5) 2-Fluorophenol	5.42	112	135186	12.73	ng	0.00
7) Phenol-d6	6.45	99	161741	11.79	ng	0.00
23) Nitrobenzene-d5	7.36	82	84842	7.84	ng	-0.01
42) 2,4,6-Tribromophenol	10.63	330	34670	10.82	ng	0.00
45) 2-Fluorobiphenyl	9.16	172	192360	9.81	ng	0.00
79) Terphenyl-d14	12.92	244	186325	9.07	ng	0.00

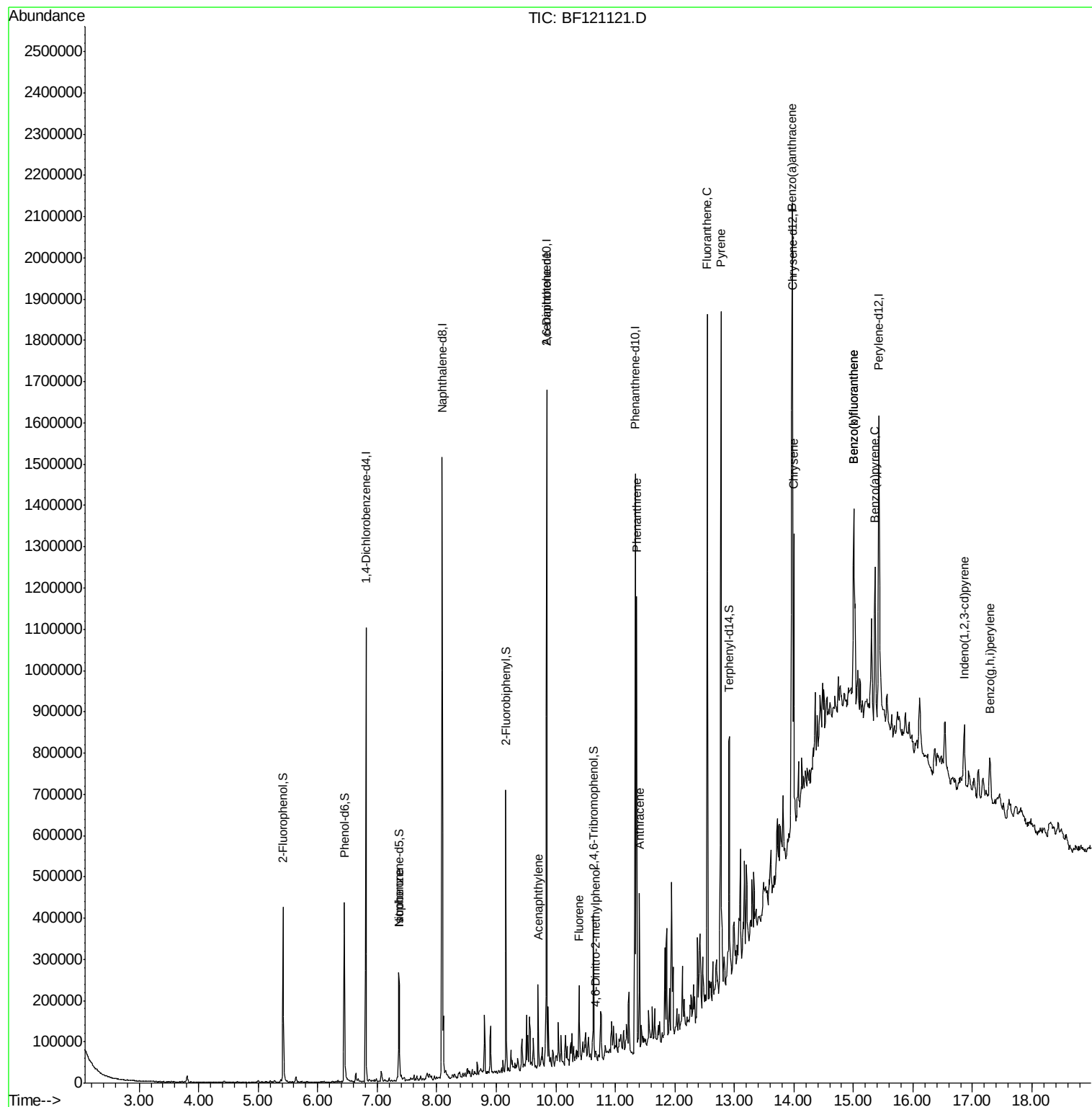
Target Compounds				Qvalue		
9) Benzaldehyde	6.36	77	244	Below Cal	#	1
25) Isophorone	7.36	82	81569	3.776	ng	# 63
49) Acenaphthylene	9.70	152	65110	2.302	ng	98
51) 2,6-Dinitrotoluene	9.85	165	40470	8.919	ng	# 27
58) Fluorene	10.39	166	48713	2.512	ng	98
65) 4,6-Dinitro-2-methylphenol	10.66	198	139	3.885	ng	# 1
71) Phenanthrene	11.36	178	370404	13.921	ng	99
72) Anthracene	11.40	178	134476	5.033	ng	98
75) Fluoranthene	12.55	202	639561	21.686	ng	98
78) Pyrene	12.77	202	642695	20.365	ng	99
81) Benzo(a)anthracene	13.96	228	306429	11.337	ng	94
83) Chrysene	14.00	228	255420	8.992	ng	97
87) Indeno(1,2,3-cd)pyrene	16.86	276	98454	4.112	ng	98
88) Benzo(b)fluoranthene	15.00	252	345821	16.617	ng	# 95
89) Benzo(k)fluoranthene	15.00	252	345821	18.221	ng	# 95
90) Benzo(a)pyrene	15.36	252	181731	9.571	ng	# 96
92) Benzo(a,h,i)perylene	17.29	276	93645	4.856	ng	95

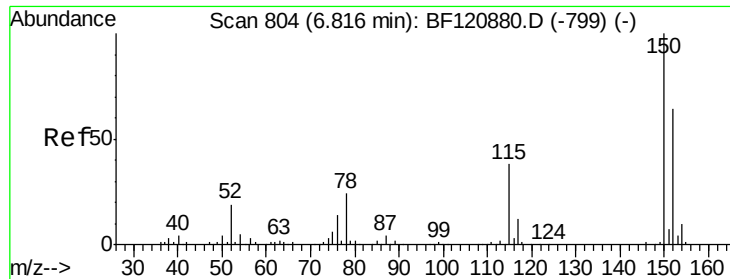
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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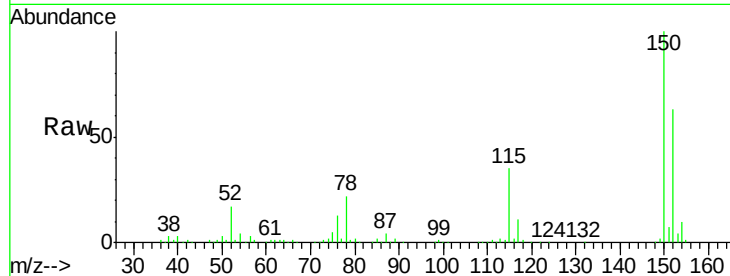


#1

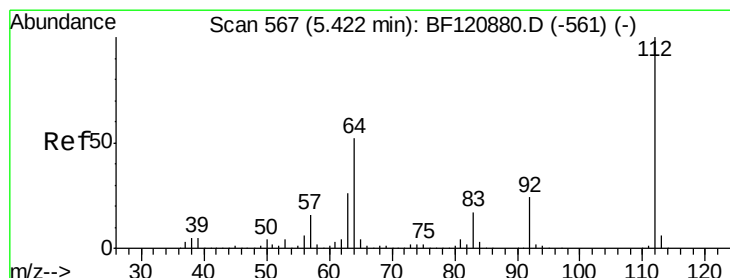
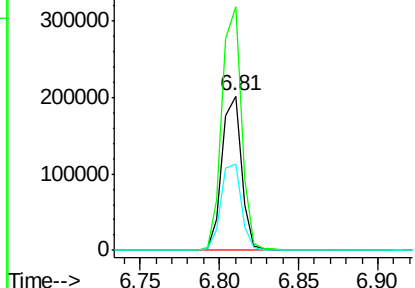
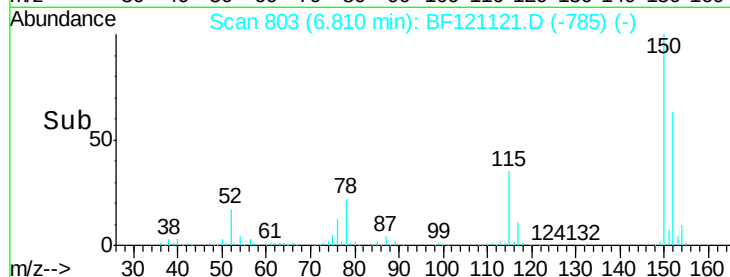
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.81 min Scan# 803
Delta R.T. 0.01 min
Lab File: BF121121.D
Acq: 30 Jul 2020 1:04

Instrument :
BNA_F
ClientSampleId :
4

Tot Ion:152 Resp: 174079
Ion Ratio Lower Upper
152 100
150 157.6 125.6 188.4
115 55.5 46.2 69.2



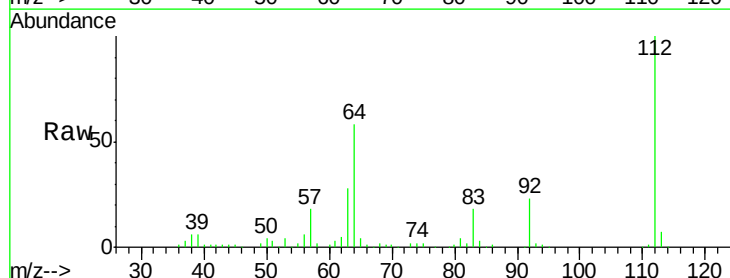
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



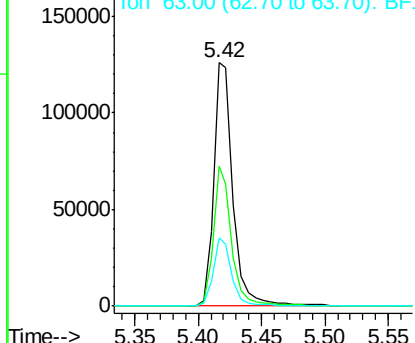
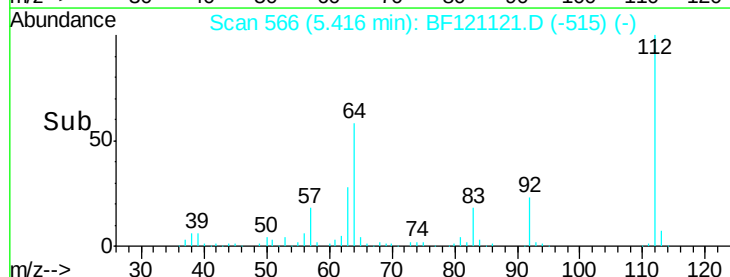
#5

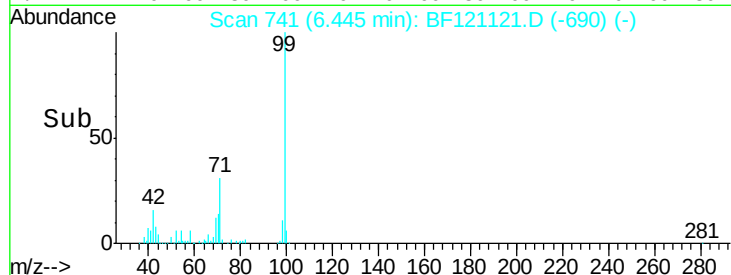
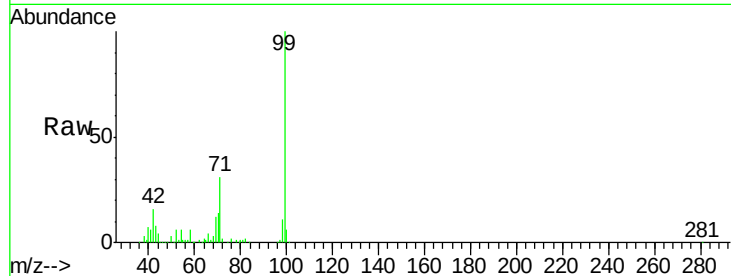
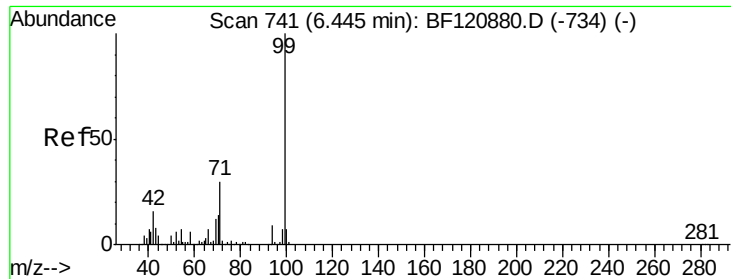
2-Fluorophenol
Concen: 12.731 ng
RT: 5.42 min Scan# 566
Delta R.T. 0.00 min
Lab File: BF121121.D
Acq: 30 Jul 2020 1:04

Tgt Ion:112 Resp: 135186
Ion Ratio Lower Upper
112 100
64 57.7 43.9 65.9
63 27.8 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: 11.792 ng

RT: 6.45 min Scan# 741

Delta R.T. 0.00 min

Lab File: BF121121.D

Acq: 30 Jul 2020 1:04

Instrument :

BNA_F

ClientSampleId :

4

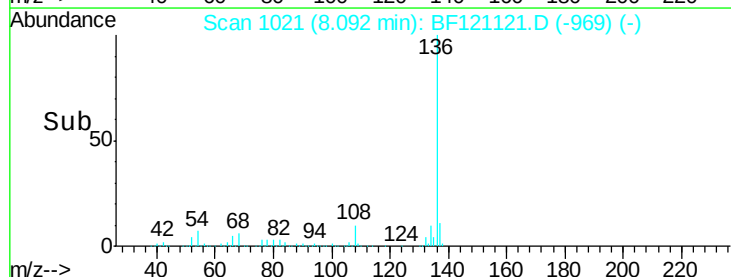
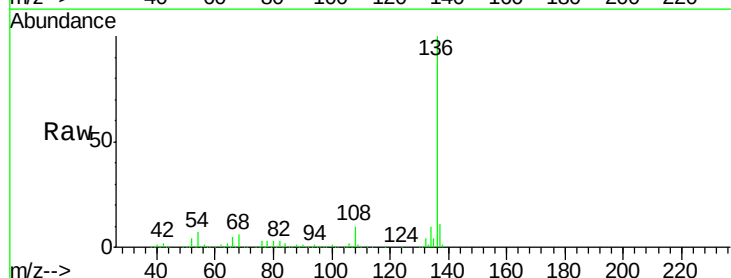
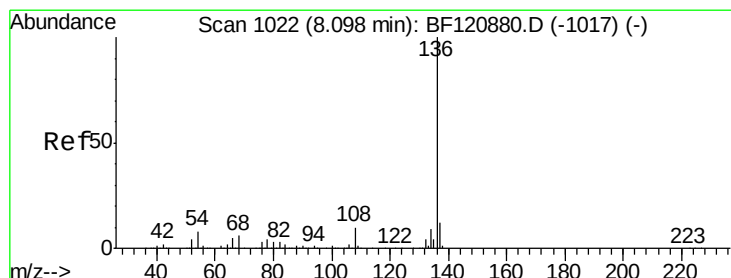
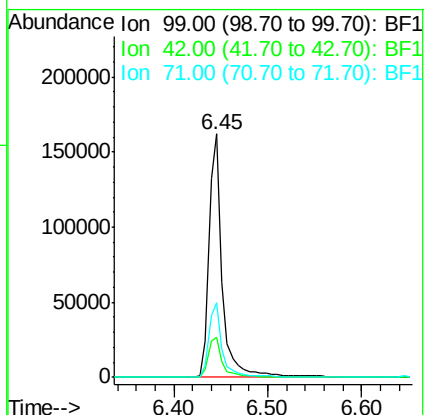
Tot Ion: 99 Resp: 161741

Ion Ratio Lower Upper

99 100

42 16.5 13.5 20.3

71 30.6 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: BF121121.D

Acq: 30 Jul 2020 1:04

Tgt Ion: 136 Resp: 626339

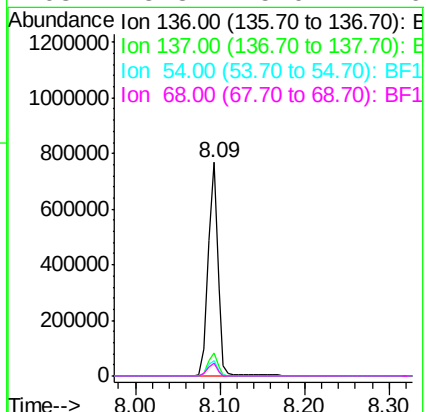
Ion Ratio Lower Upper

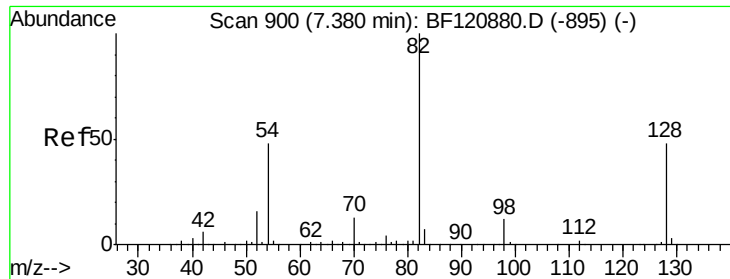
136 100

137 11.0 9.0 13.4

54 7.1 6.1 9.1

68 5.8 5.0 7.6

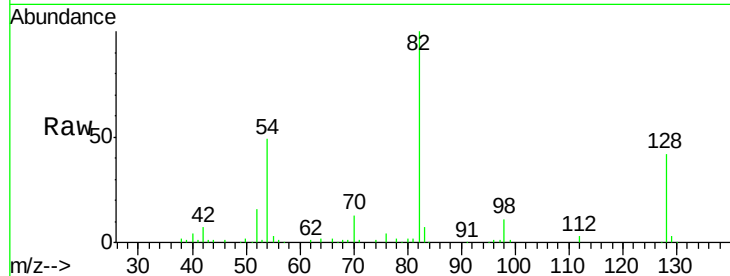




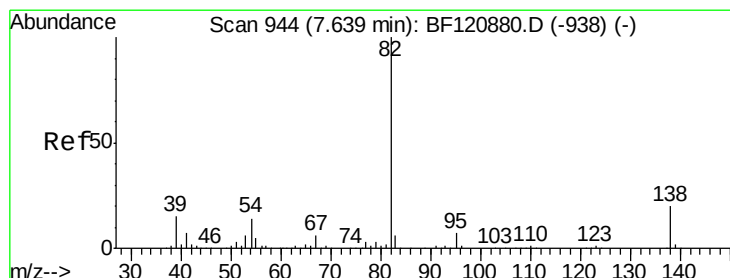
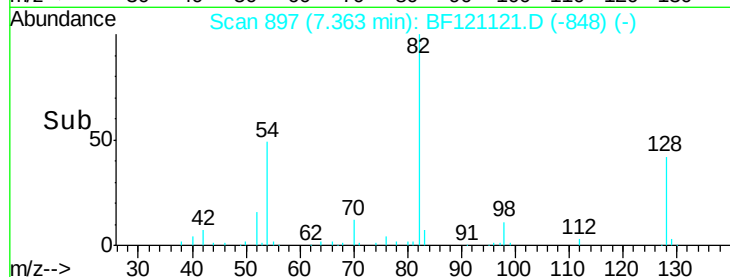
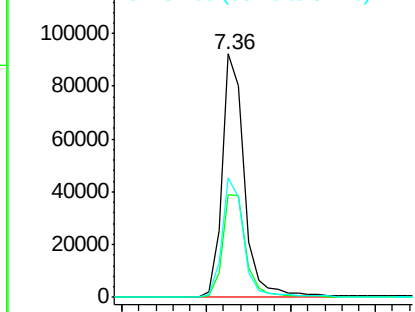
#23
Nitrobenzene-d5
Concen: 7.838 ng
RT: 7.36 min Scan# 897
Delta R.T. -0.01 min
Lab File: BF121121.D
Acq: 30 Jul 2020 1:04

Instrument :
BNA_F
ClientSampleId :
4

Tot Ion	82	Resp	84842
Ion Ratio	100	Lower	Upper
128	42.0	39.2	58.8
54	49.3	37.8	56.8

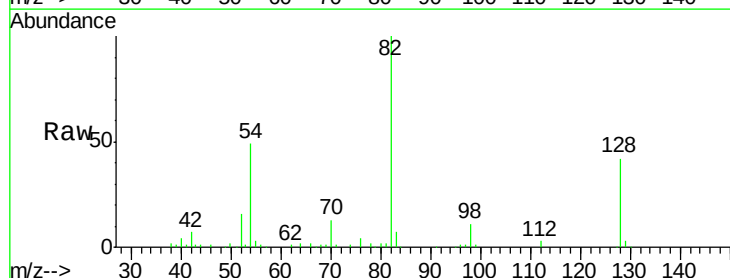


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): BF1
Ion 54.00 (53.70 to 54.70): BF1

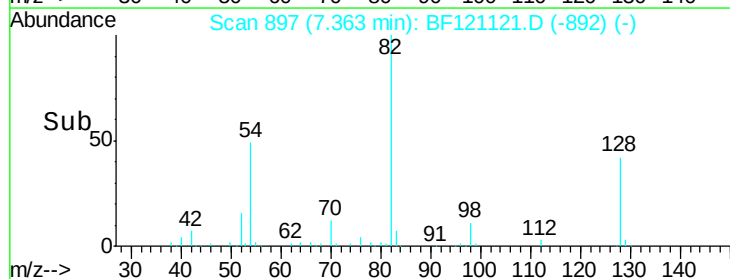
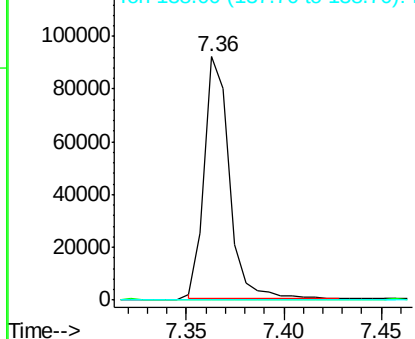


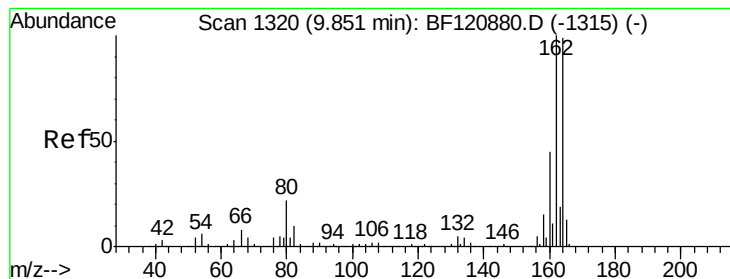
#25
Isophorone
Concen: 3.776 ng
RT: 7.36 min Scan# 897
Delta R.T. -0.27 min
Lab File: BF121121.D
Acq: 30 Jul 2020 1:04

Tgt Ion	82	Resp	81569
Ion Ratio	100	Lower	Upper
95	0.4	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: 9.85 min Scan# 1319

Delta R.T. 0.01 min

Lab File: BF121121.D

Acq: 30 Jul 2020 1:04

Instrument :

BNA_F

ClientSampled :

4

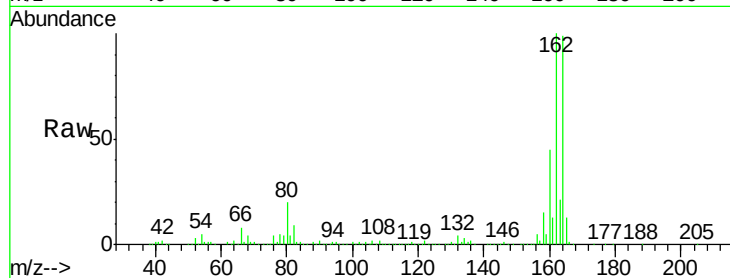
Tot Ion:164 Resp: 292768

Ion Ratio Lower Upper

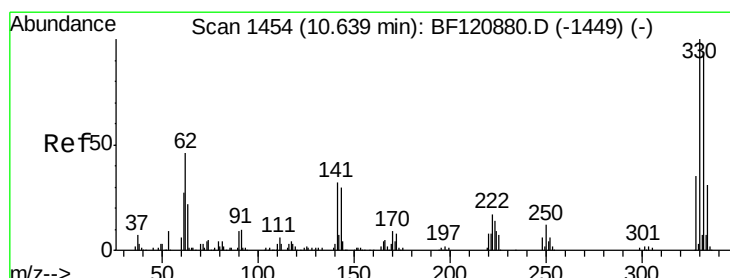
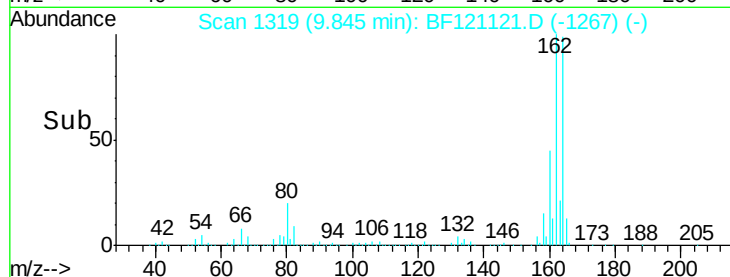
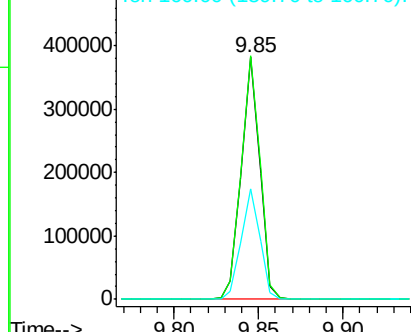
164 100

162 100.7 82.2 123.2

160 45.6 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: 10.819 ng

RT: 10.63 min Scan# 1453

Delta R.T. 0.00 min

Lab File: BF121121.D

Acq: 30 Jul 2020 1:04

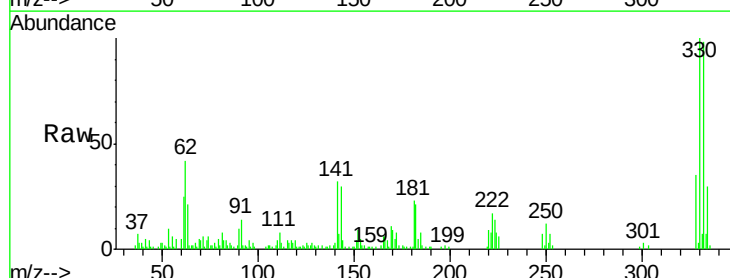
Tgt Ion:330 Resp: 34670

Ion Ratio Lower Upper

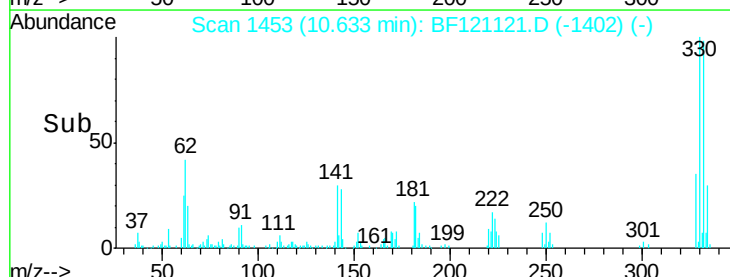
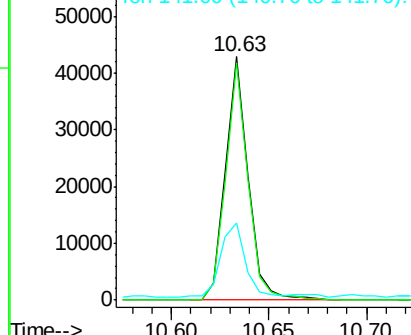
330 100

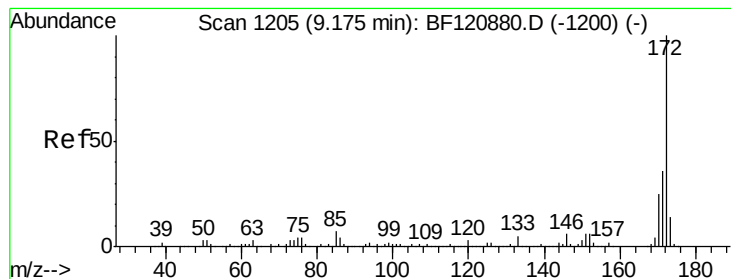
332 96.5 76.1 114.1

141 33.6 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: 9.810 ng

RT: 9.16 min Scan# 1203

Delta R.T. 0.00 min

Lab File: BF121121.D

Acq: 30 Jul 2020 1:04

Instrument :

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ClientSampleId :

4

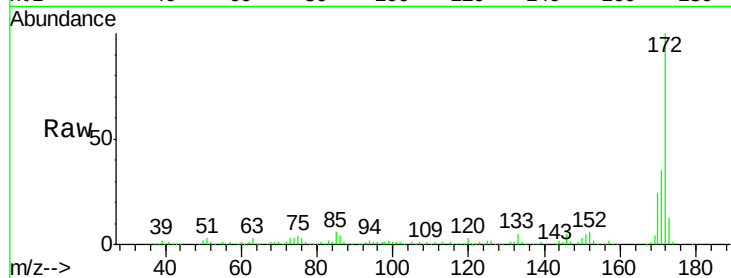
Tot Ion:172 Resp: 192360

Ion Ratio Lower Upper

172 100

171 34.6 29.0 43.4

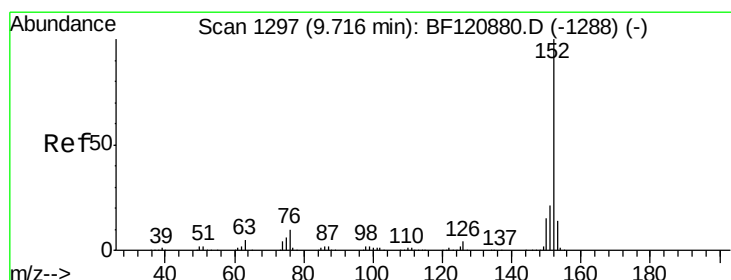
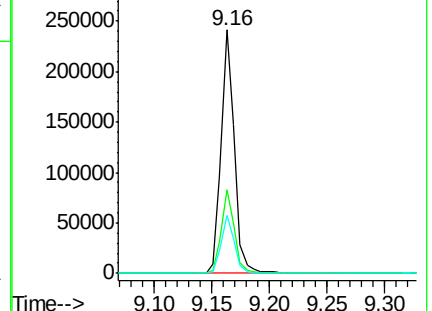
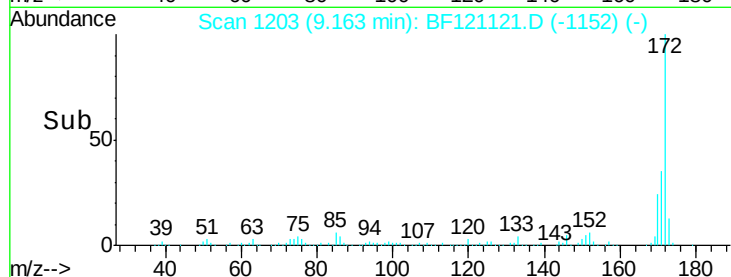
170 23.6 19.6 29.4



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: 2.302 ng

RT: 9.70 min Scan# 1295

Delta R.T. 0.00 min

Lab File: BF121121.D

Acq: 30 Jul 2020 1:04

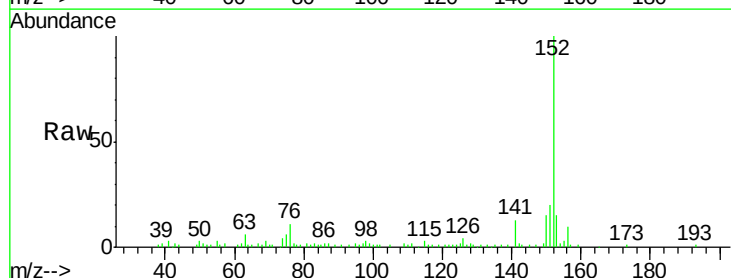
Tgt Ion:152 Resp: 65110

Ion Ratio Lower Upper

152 100

151 20.5 16.6 25.0

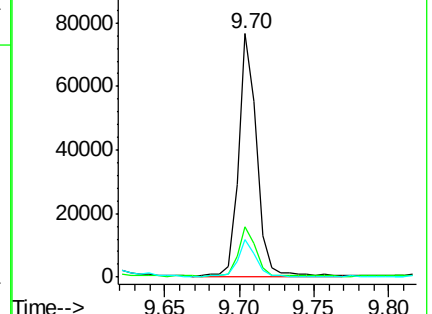
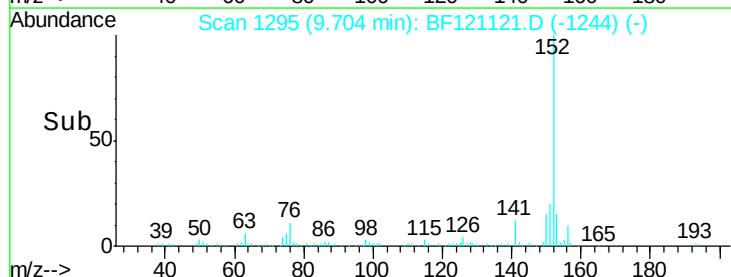
153 15.2 11.0 16.4

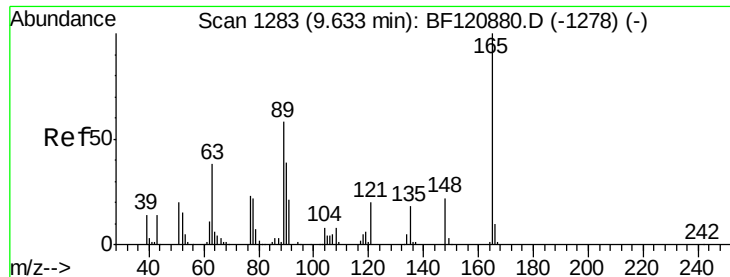


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#51

2,6-Dinitrotoluene

Concen: 8.919 ng

RT: 9.85 min Scan# 1319

Delta R.T. 0.22 min

Lab File: BF121121.D

Acq: 30 Jul 2020 1:04

Instrument :

BNA_F

ClientSampleId :

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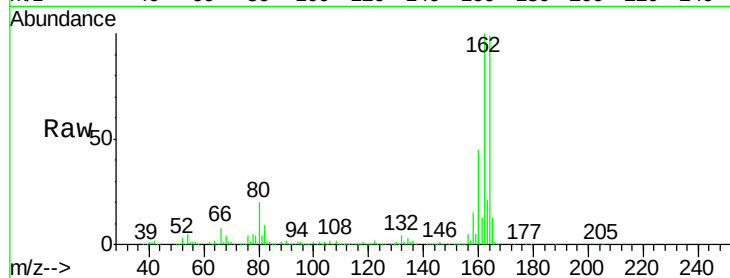
Tot Ion:165 Resp: 40470

Ion Ratio Lower Upper

165 100

63 1.3 41.1 61.7#

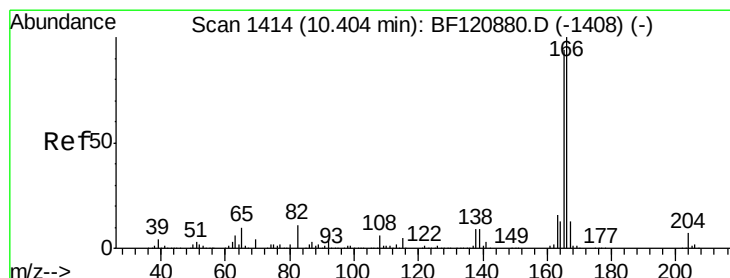
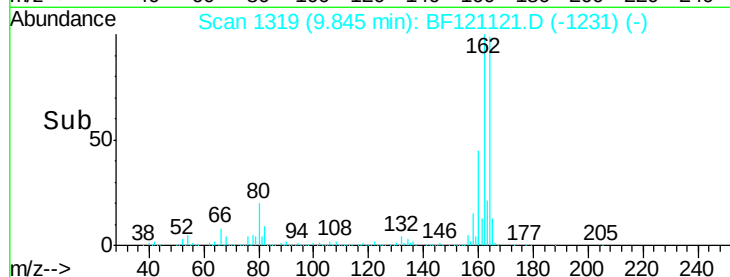
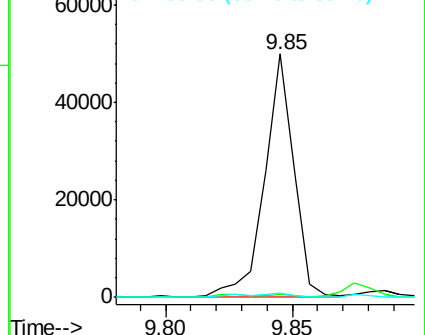
89 1.5 43.5 65.3#



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: 2.512 ng

RT: 10.39 min Scan# 1412

Delta R.T. 0.00 min

Lab File: BF121121.D

Acq: 30 Jul 2020 1:04

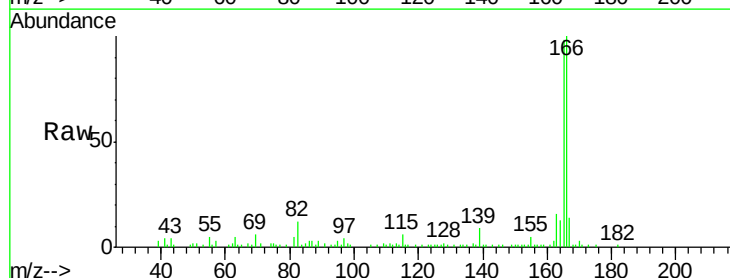
Tgt Ion:166 Resp: 48713

Ion Ratio Lower Upper

166 100

165 97.6 76.4 114.6

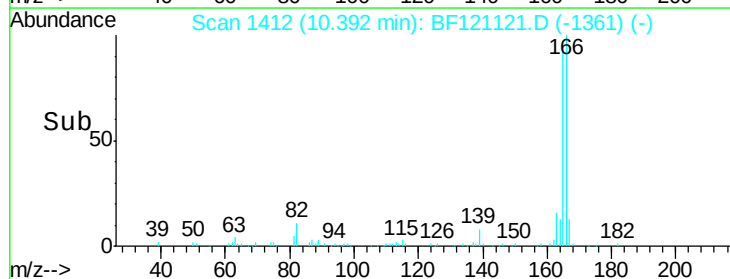
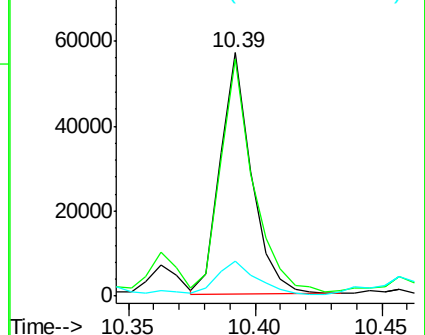
167 14.2 10.7 16.1

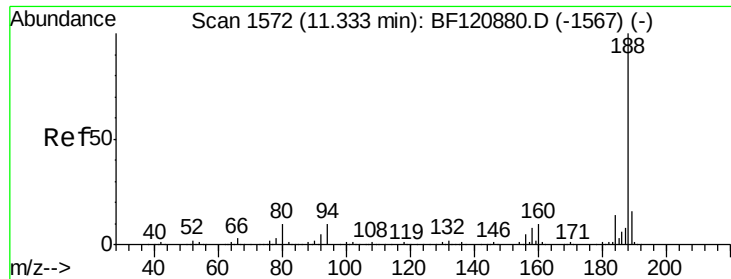


Abundance Ion 166.00 (165.70 to 166.70): E

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# 1572

Delta R.T. 0.01 min

Lab File: BF121121.D

Acq: 30 Jul 2020 1:04

Instrument :

BNA_F

ClientSampleId :

4

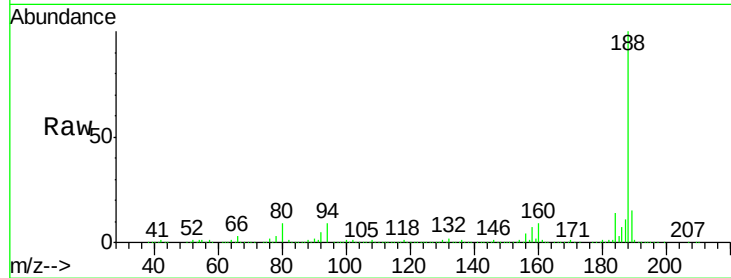
Tot Ion:188 Resp: 517336

Ion Ratio Lower Upper

188 100

94 9.0 8.0 12.0

80 9.2 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

800000

600000

400000

200000

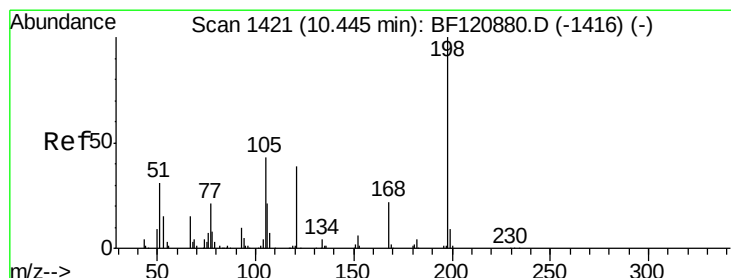
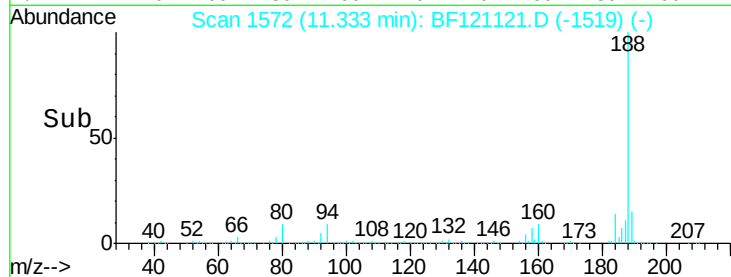
0

11.33

11.30

11.35

Time-->



#65

4,6-Dinitro-2-methylphenol

Concen: 3.885 ng

RT: 10.66 min Scan# 1458

Delta R.T. 0.22 min

Lab File: BF121121.D

Acq: 30 Jul 2020 1:04

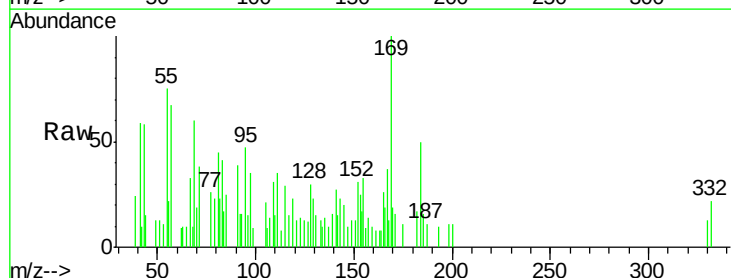
Tgt Ion:198 Resp: 139

Ion Ratio Lower Upper

198 100

51 124.6 23.4 63.4#

105 201.5 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

1000

500

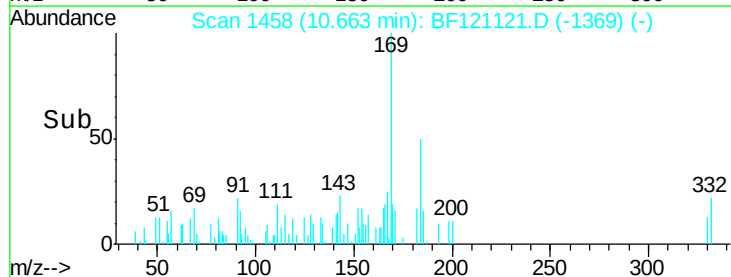
0

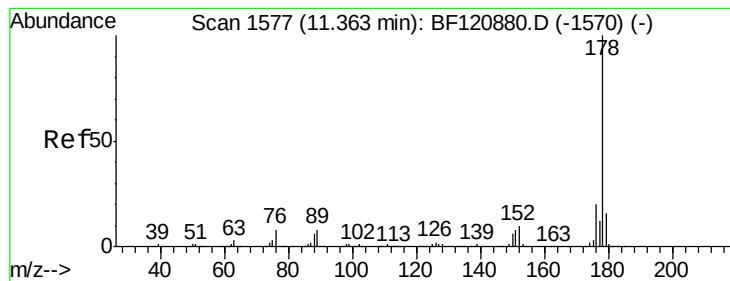
10.66

10.64

10.68

Time-->





#71

Phenanthrene

Concen: 13.921 ng

RT: 11.36 min Scan# 1576

Delta R.T. 0.01 min

Lab File: BF121121.D

Acq: 30 Jul 2020 1:04

Instrument :

BNA_F

ClientSampleId :

4

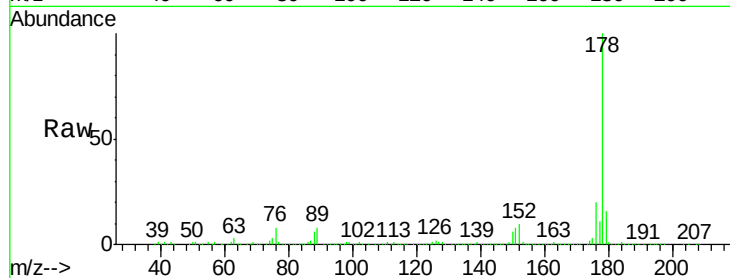
Tot Ion:178 Resp: 370404

Ion Ratio Lower Upper

178 100

176 19.6 16.2 24.2

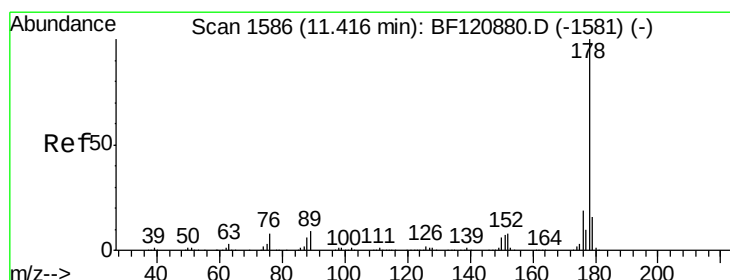
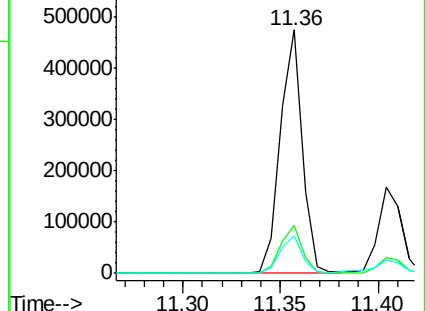
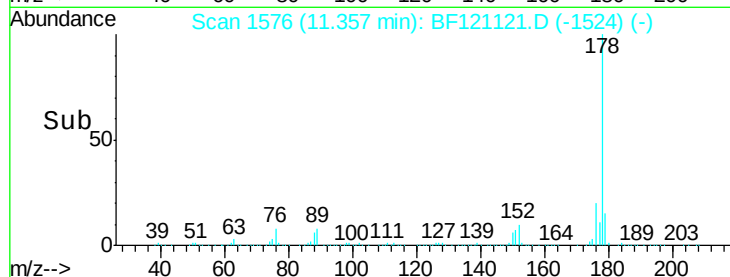
179 15.6 12.6 19.0



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: 5.033 ng

RT: 11.40 min Scan# 1584

Delta R.T. 0.00 min

Lab File: BF121121.D

Acq: 30 Jul 2020 1:04

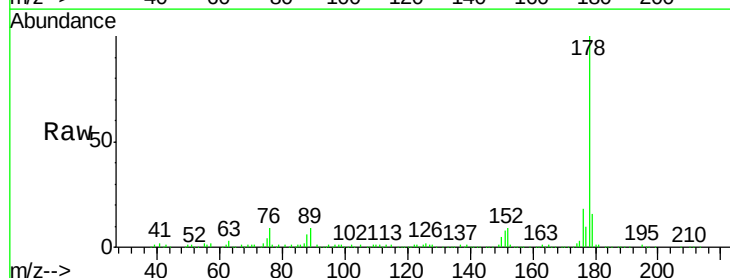
Tgt Ion:178 Resp: 134476

Ion Ratio Lower Upper

178 100

176 18.4 15.8 23.8

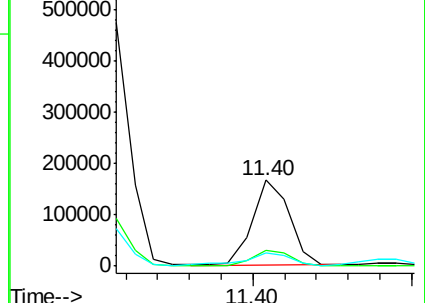
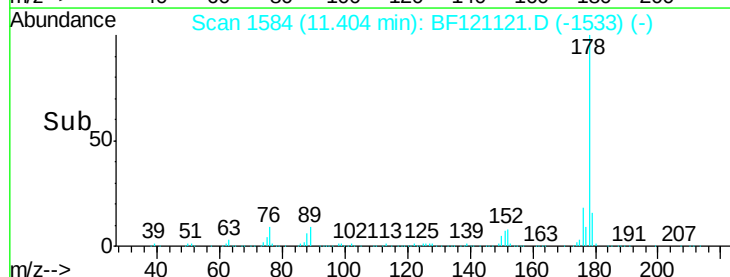
179 15.9 12.6 19.0

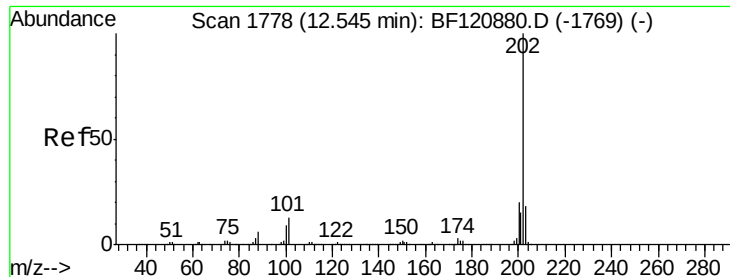


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 21.686 ng

RT: 12.55 min Scan# 1778

Delta R.T. 0.01 min

Lab File: BF121121.D

Acq: 30 Jul 2020 1:04

Instrument :

BNA_F

ClientSampled :

4

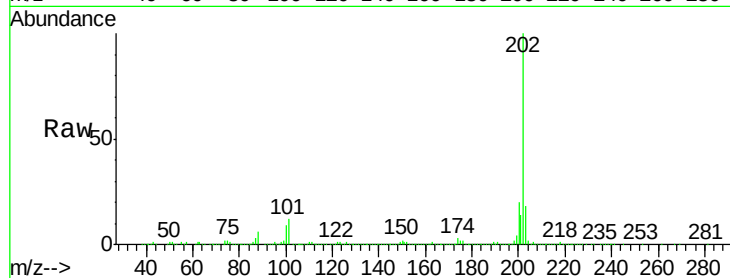
Tot Ion:202 Resp: 639561

Ion Ratio Lower Upper

202 100

101 12.3 0.0 30.5

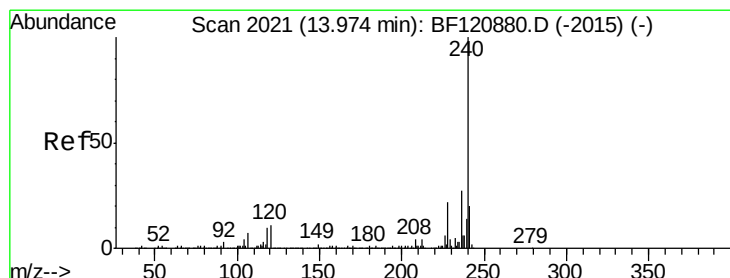
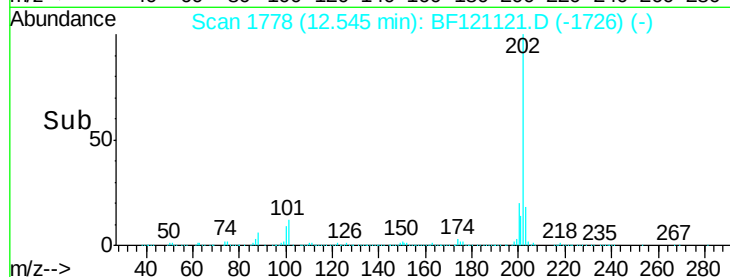
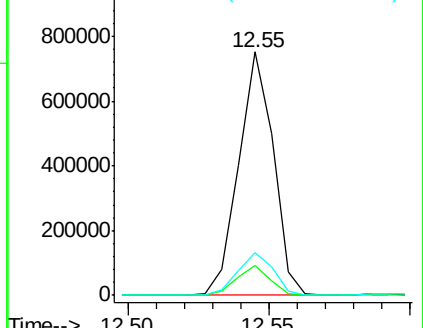
203 17.8 0.0 37.7



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: BF121121.D

Acq: 30 Jul 2020 1:04

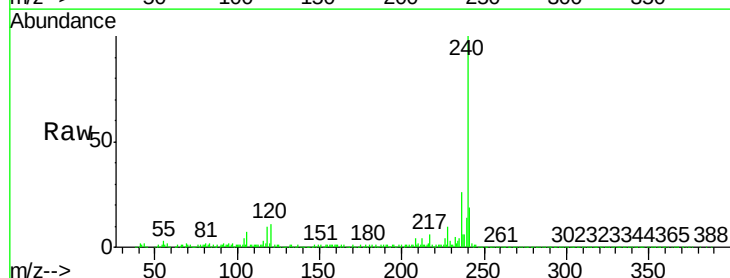
Tgt Ion:240 Resp: 446366

Ion Ratio Lower Upper

240 100

120 11.3 9.3 13.9

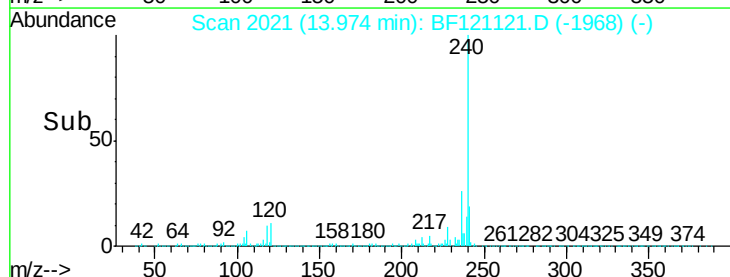
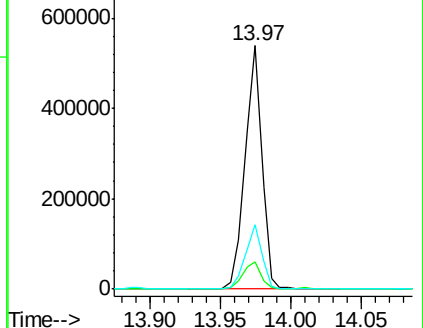
236 26.3 21.1 31.7

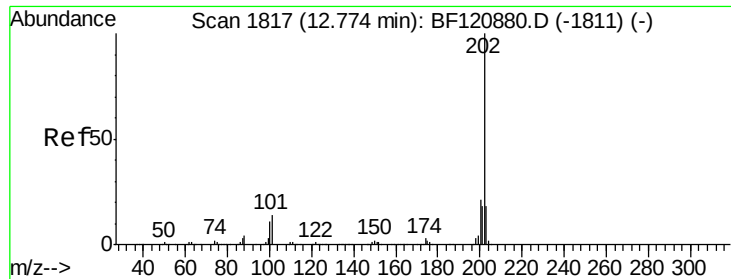


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

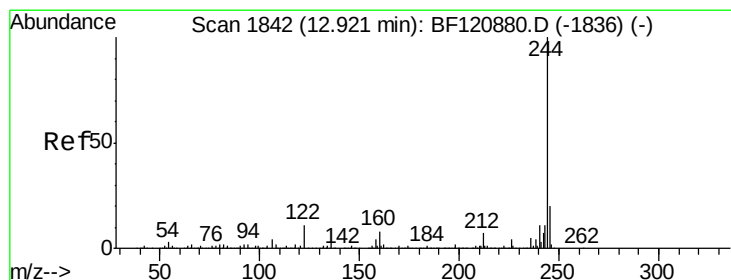
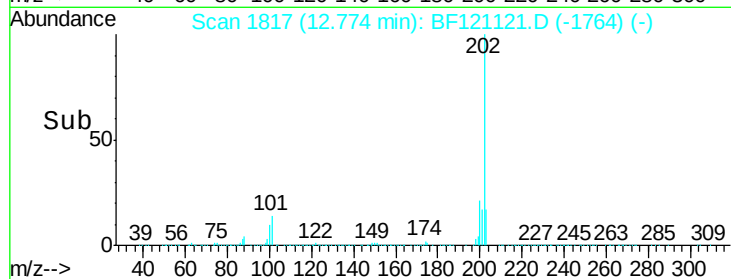
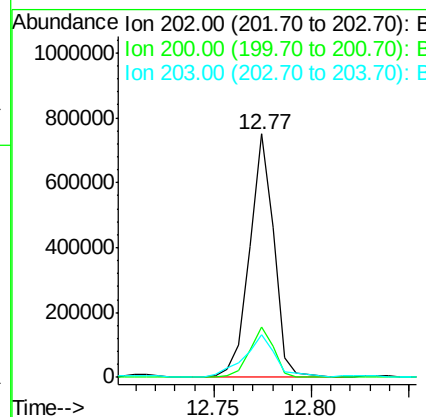
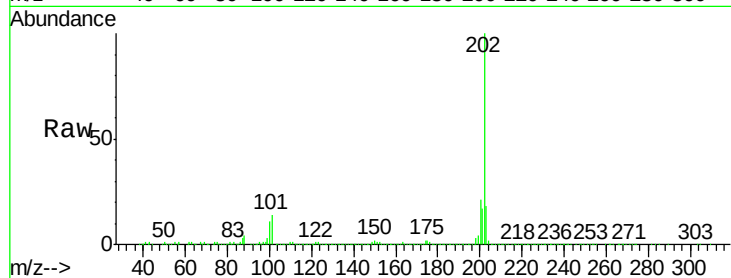




#78
Pvrene
Concen: 20.365 ng
RT: 12.77 min Scan# 1817
Delta R.T. 0.01 min
Lab File: BF121121.D
Acq: 30 Jul 2020 1:04

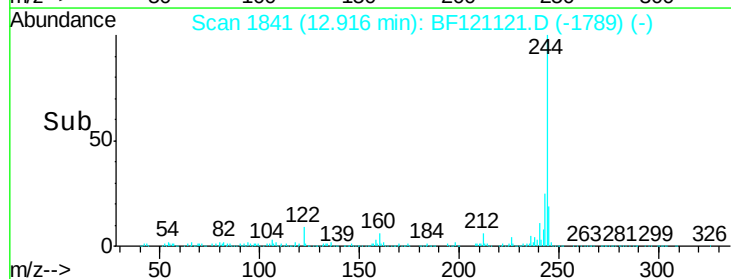
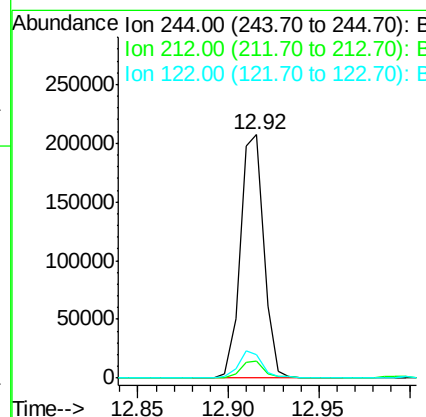
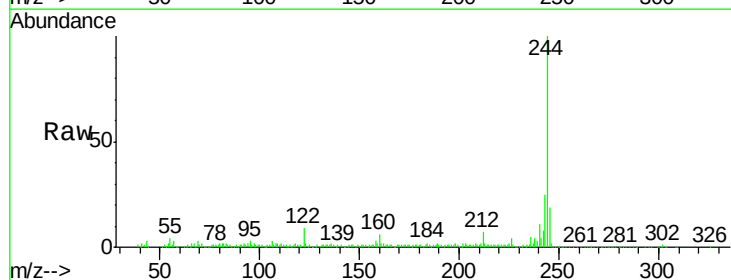
Instrument :
BNA_F
ClientSampleId :
4

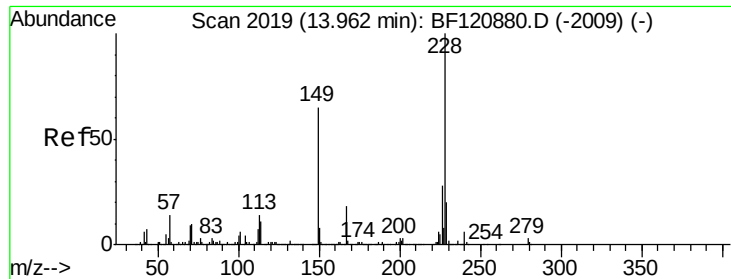
Tot Ion	Ratio	Lower	Upper
202	100		
200	20.7	17.0	25.6
203	17.8	14.6	21.8



#79
Terphenyl-d14
Concen: 9.074 ng
RT: 12.92 min Scan# 1841
Delta R.T. 0.01 min
Lab File: BF121121.D
Acq: 30 Jul 2020 1:04

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.7	8.5
122	9.4	8.3	12.5





#81

Benzo(a)anthracene

Concen: 11.337 ng

RT: 13.96 min Scan# 2019

Delta R.T. 0.01 min

Lab File: BF121121.D

Acq: 30 Jul 2020 1:04

Instrument :

BNA_F

ClientSampleId :

4

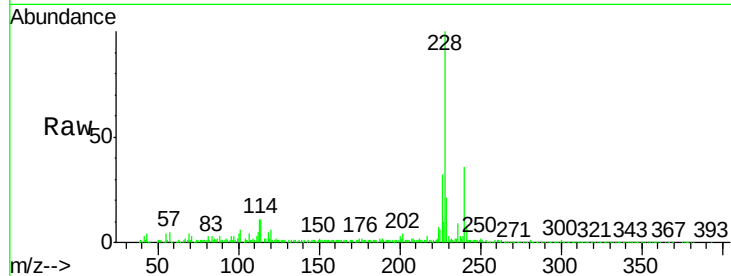
Tot Ion:228 Resp: 306429

Ion Ratio Lower Upper

228 100

226 32.2 22.6 34.0

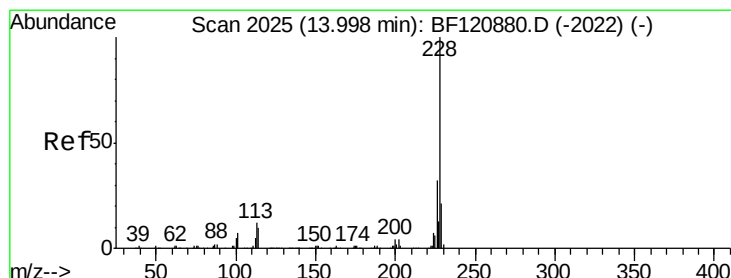
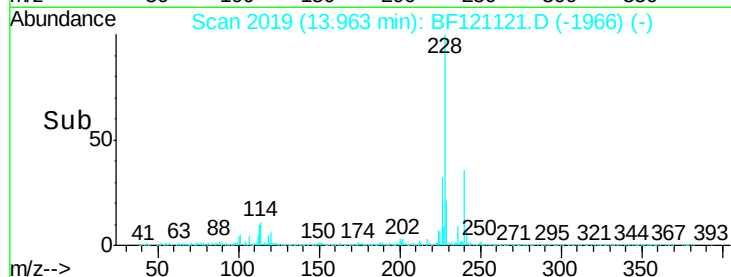
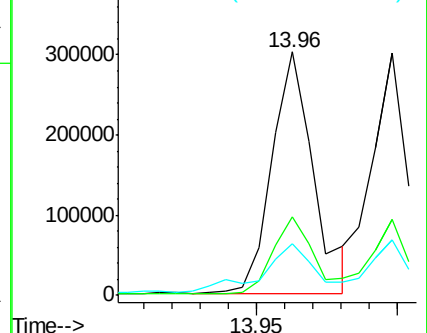
229 21.4 16.1 24.1



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: 8.992 ng

RT: 14.00 min Scan# 2025

Delta R.T. 0.01 min

Lab File: BF121121.D

Acq: 30 Jul 2020 1:04

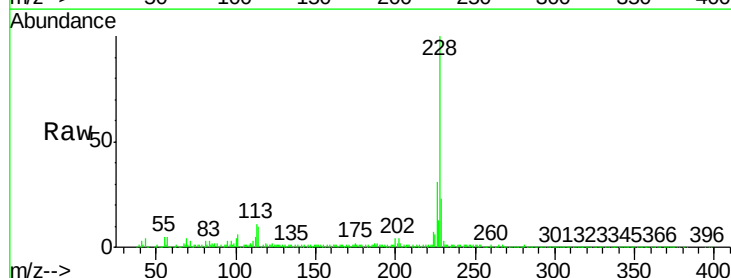
Tgt Ion:228 Resp: 255420

Ion Ratio Lower Upper

228 100

226 31.2 25.4 38.0

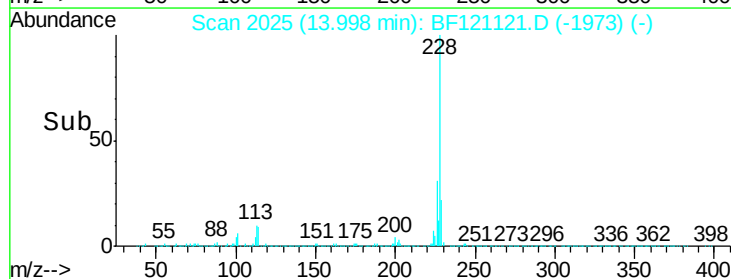
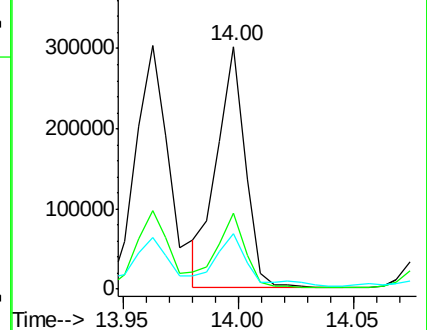
229 22.9 16.2 24.4

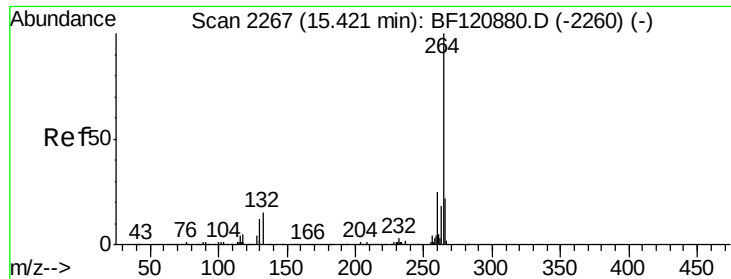


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

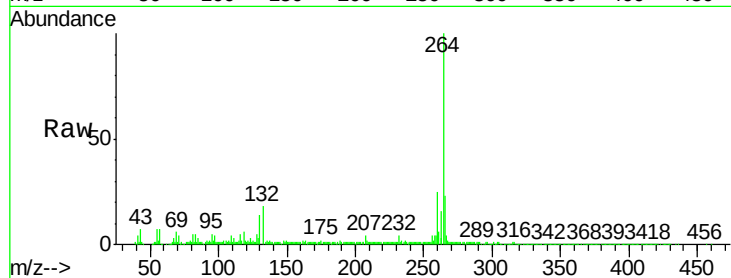




#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.43 min Scan# 2268
Delta R.T. 0.02 min
Lab File: BF121121.D
Acq: 30 Jul 2020 1:04

Instrument :
BNA_F
ClientSampleId :
4

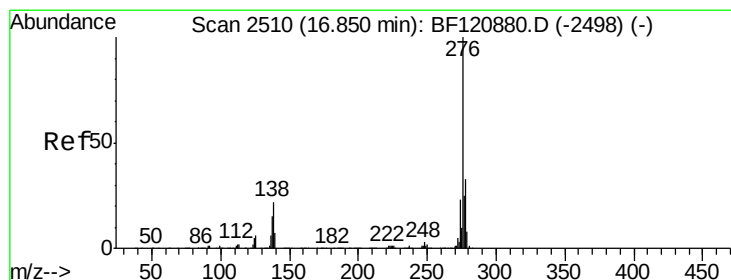
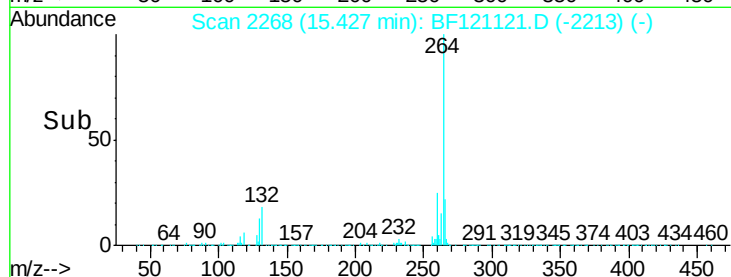
Tot Ion:264	Resp:	344291
Ion Ratio	Lower	Upper
264	100	
260	25.1	19.9 29.9
265	23.0	17.8 26.8



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

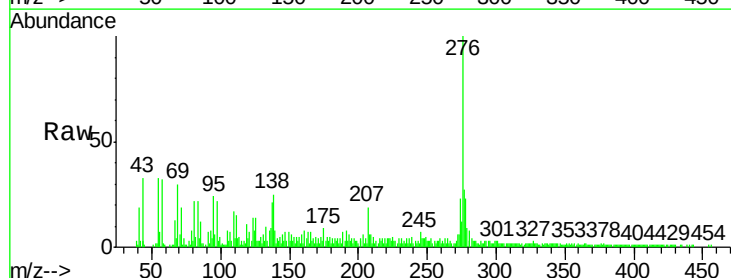
15.43

Time-->



#87
Indeno(1,2,3-cd)pyrene
Concen: 4.112 ng
RT: 16.86 min Scan# 2512
Delta R.T. 0.03 min
Lab File: BF121121.D
Acq: 30 Jul 2020 1:04

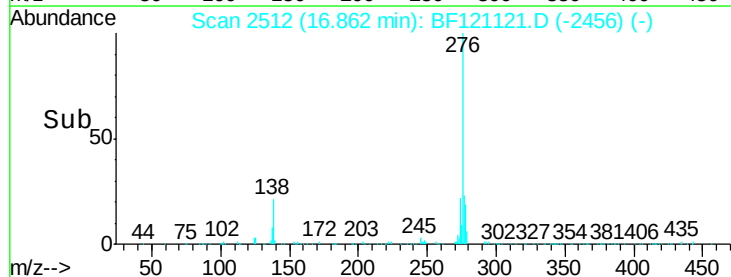
Tgt Ion:276	Resp:	98454
Ion Ratio	Lower	Upper
276	100	
138	22.4	19.3 28.9
277	24.6	20.1 30.1

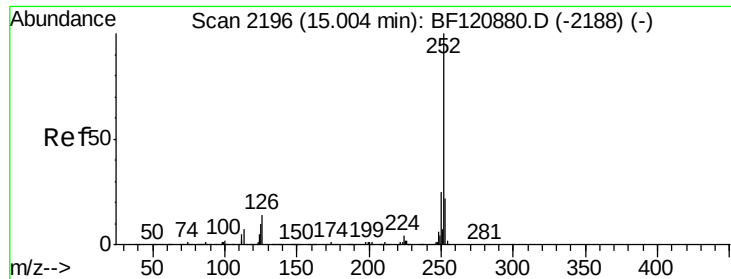


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

16.86

Time-->





#88

Benzo(b)fluoranthene

Concen: 16.617 ng

RT: 15.00 min Scan# 2196

Delta R.T. 0.01 min

Lab File: BF121121.D

Acq: 30 Jul 2020 1:04

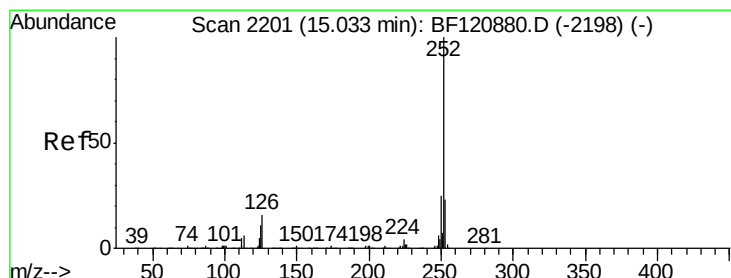
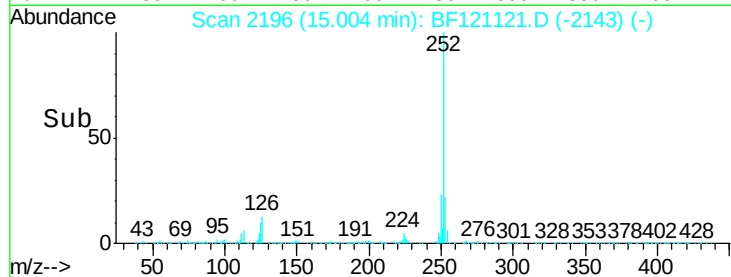
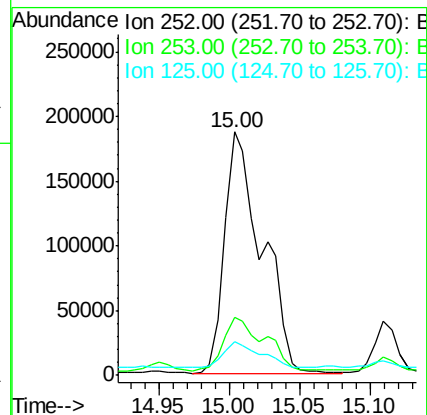
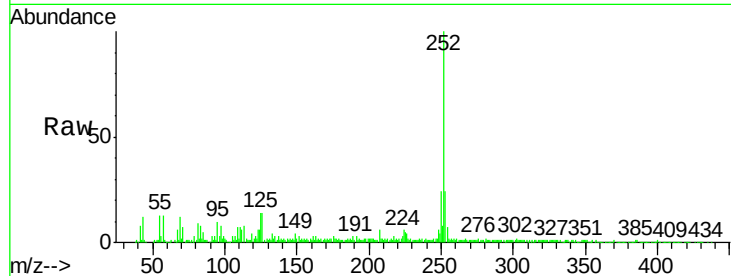
Instrument :

BNA_F

ClientSampleId :

4

Tot Ion:	252	Resp:	345821
Ion Ratio	Lower	Upper	
252	100		
253	23.9	17.9	26.9
125	13.7	8.1	12.1#



#89

Benzo(k)fluoranthene

Concen: 18.221 ng

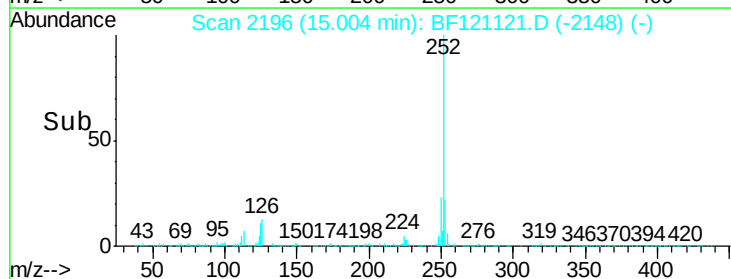
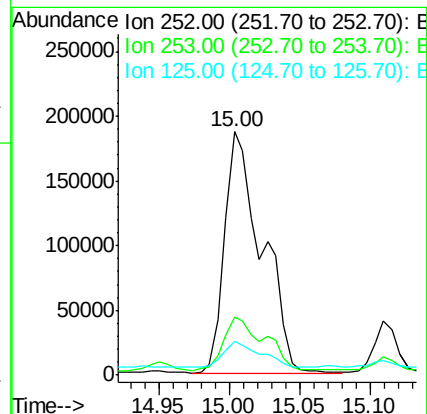
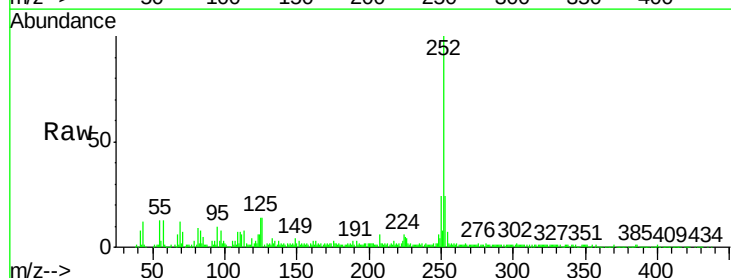
RT: 15.00 min Scan# 2196

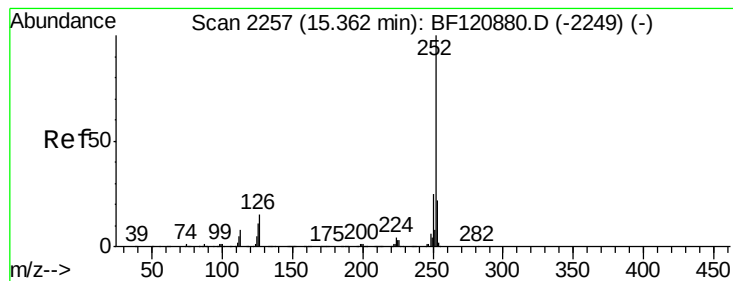
Delta R.T. -0.02 min

Lab File: BF121121.D

Acq: 30 Jul 2020 1:04

Tgt Ion:	252	Resp:	345821
Ion Ratio	Lower	Upper	
252	100		
253	23.9	18.1	27.1
125	13.7	8.0	12.0#





#90

Benzo(a)pyrene

Concen: 9.571 ng

RT: 15.36 min Scan# 2257

Delta R.T. 0.02 min

Lab File: BF121121.D

Acq: 30 Jul 2020 1:04

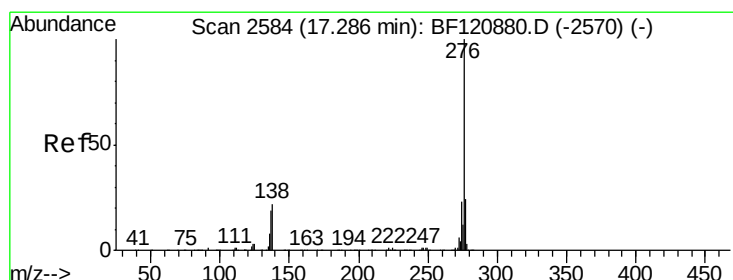
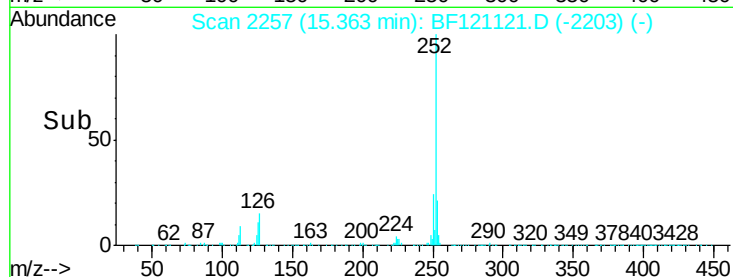
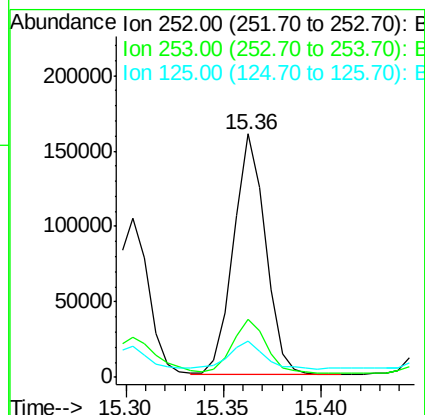
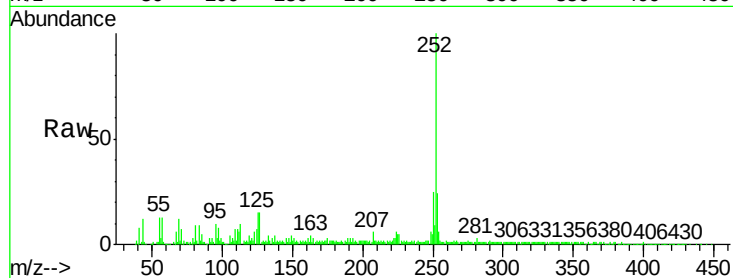
Instrument :

BNA_F

ClientSampleId :

4

Tot Ion:252	Resp:	181731
Ion Ratio	Lower	Upper
252	100	
253	23.8	18.0 27.0
125	14.7	9.5 14.3#



#92

Benzo(g,h,i)perylene

Concen: 4.856 ng

RT: 17.29 min Scan# 2585

Delta R.T. 0.03 min

Lab File: BF121121.D

Acq: 30 Jul 2020 1:04

Tgt Ion:276	Resp:	93645
Ion Ratio	Lower	Upper
276	100	
277	27.2	19.4 29.0
138	23.5	17.2 25.8

