

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080620\
 Data File : BF121223.D
 Acq On : 7 Aug 2020 1:42
 Operator : JU/CG
 Sample : L3502-01 5X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OK-03-080520

Quant Time: Aug 07 02:08:19 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	125492	20.00	ng	-0.01
21) Naphthalene-d8	8.08	136	495645	20.00	ng	0.00
39) Acenaphthene-d10	9.83	164	249387	20.00	ng	0.00
64) Phenanthrene-d10	11.32	188	431640	20.00	ng	0.00
76) Chrysene-d12	13.97	240	324831	20.00	ng	0.00
86) Perylene-d12	15.42	264	315952	20.00	ng	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.40	112	117908	15.40	ng	-0.01
7) Phenol-d6	6.43	99	151642	15.34	ng	-0.01
23) Nitrobenzene-d5	7.36	82	97185	11.35	ng	-0.02
42) 2,4,6-Tribromophenol	10.63	330	38771	14.20	ng	0.00
45) 2-Fluorobiphenyl	9.16	172	212707	12.73	ng	0.00
79) Terphenyl-d14	12.90	244	187983	12.58	ng	0.00

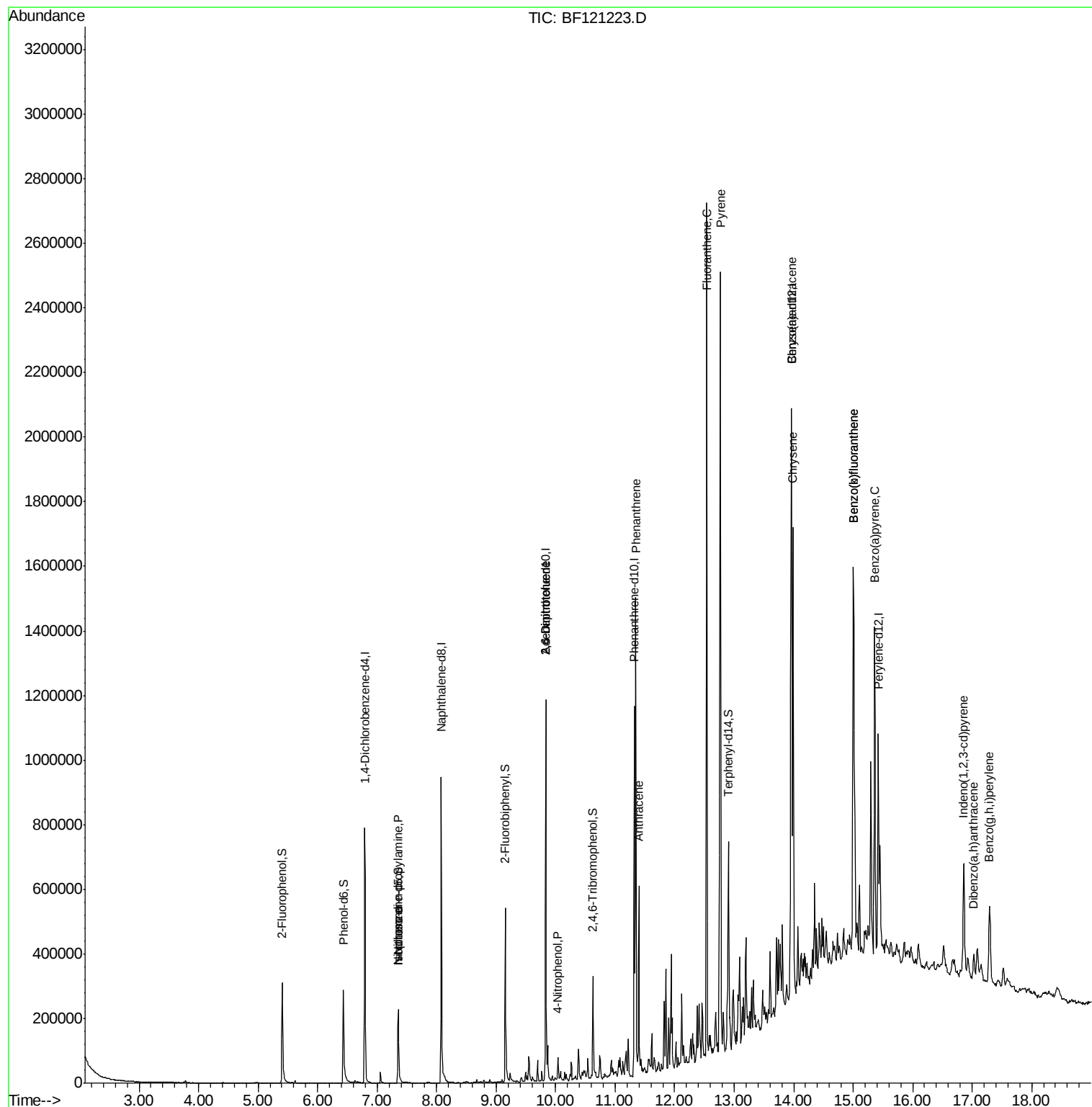
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.36	70	12087	2.150	ng	# 82
25) Isophorone	7.36	82	91891	5.375	ng	# 62
51) 2,6-Dinitrotoluene	9.83	165	33138	8.573	ng	# 27
56) 4-Nitrophenol	10.04	139	10237	2.780	ng	# 17
57) 2,4-Dinitrotoluene	9.83	165	33139	6.529	ng	# 29
71) Phenanthrene	11.35	178	591079	26.626	ng	99
72) Anthracene	11.40	178	235989	10.587	ng	98
75) Fluoranthene	12.54	202	1152716	46.846	ng	97
78) Pyrene	12.77	202	1086156	47.295	ng	100
81) Benzo(a)anthracene	13.96	228	683612	34.754	ng	99
83) Chrysene	13.99	228	557616	26.975	ng	97
87) Indeno(1,2,3-cd)pyrene	16.86	276	239621	10.905	ng	97
88) Benzo(b)fluoranthene	15.00	252	954322	49.969	ng	99
89) Benzo(k)fluoranthene	15.00	252	954322	54.791	ng	99
90) Benzo(a)pyrene	15.36	252	502395	28.833	ng	99
91) Dibenzo(a,h)anthracene	17.03	278	55498	3.092	ng	95
92) Benzo(g,h,i)perylene	17.29	276	208280	11.769	ng	100

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

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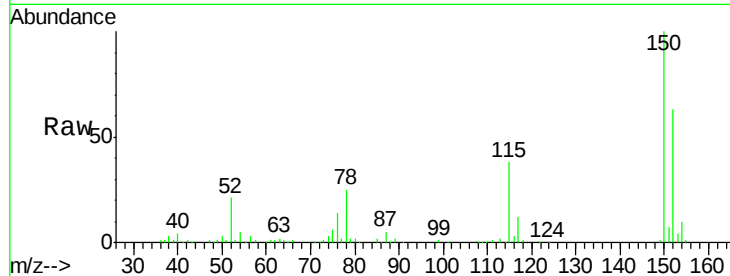




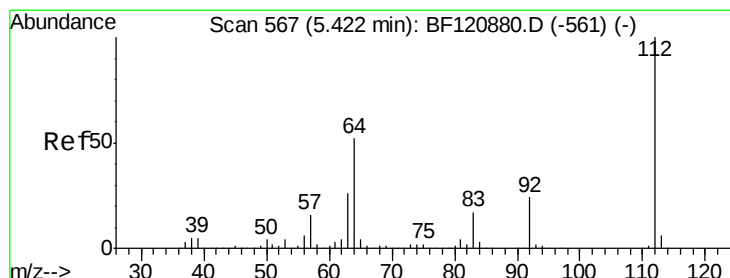
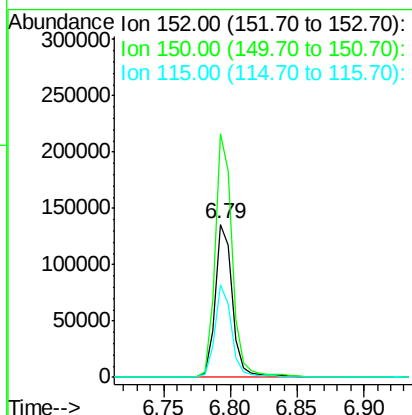
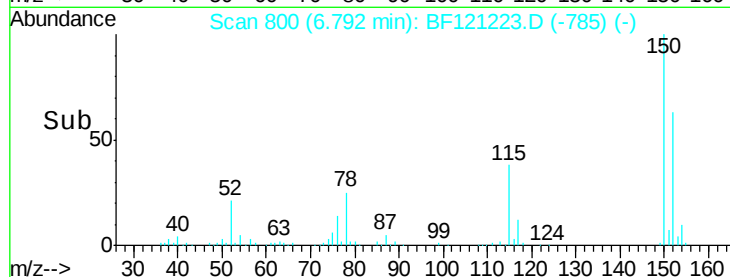
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.79 min Scan# 800
 Delta R.T. -0.01 min
 Lab File: BF121223.D
 Acq: 7 Aug 2020 1:42

Instrument :
 BNA_F
 ClientSampleId :
 OK-03-080520

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.8	125.6	188.4
115	60.2	46.2	69.2

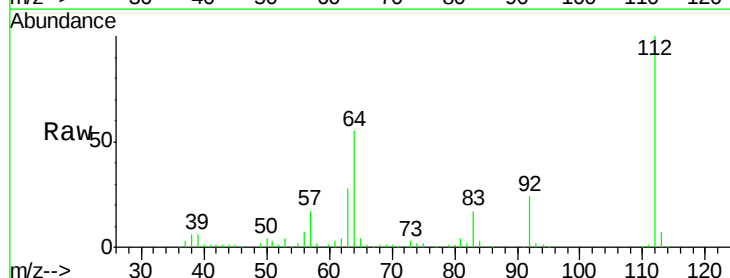


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

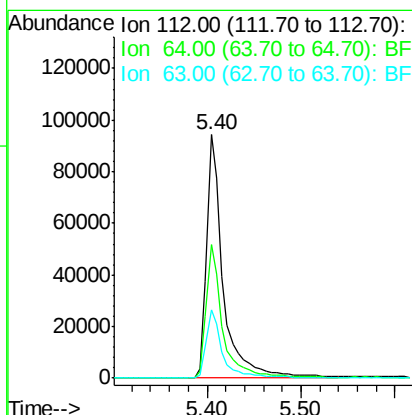
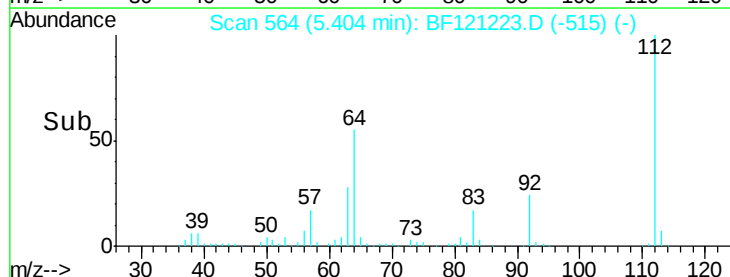


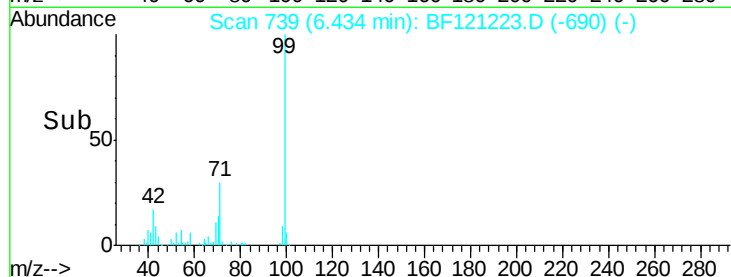
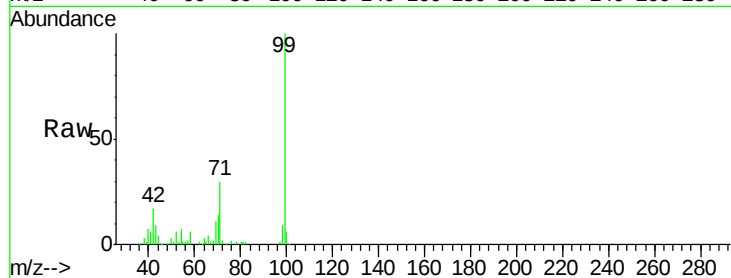
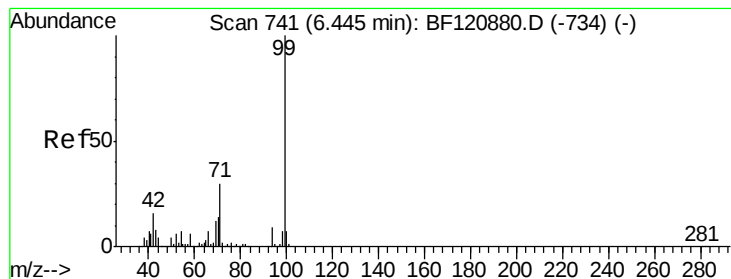
#5
 2-Fluorophenol
 Concen: 15.403 ng
 RT: 5.40 min Scan# 564
 Delta R.T. -0.01 min
 Lab File: BF121223.D
 Acq: 7 Aug 2020 1:42

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.9	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: 15.336 ng

RT: 6.43 min Scan# 739

Delta R.T. -0.01 min

Lab File: BF121223.D

Acq: 7 Aug 2020 1:42

Instrument :

BNA_F

ClientSampleId :

OK-03-080520

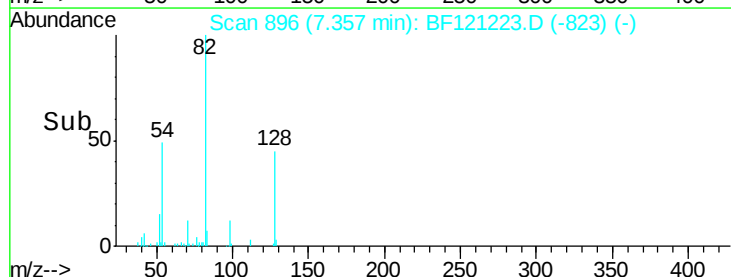
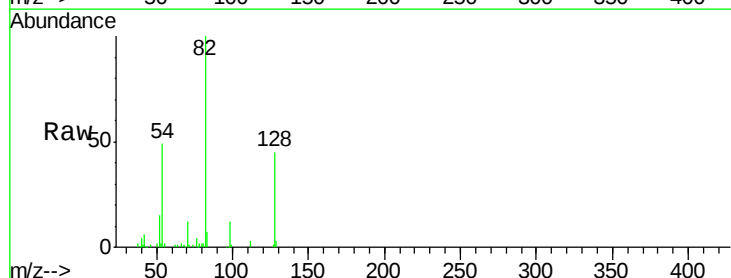
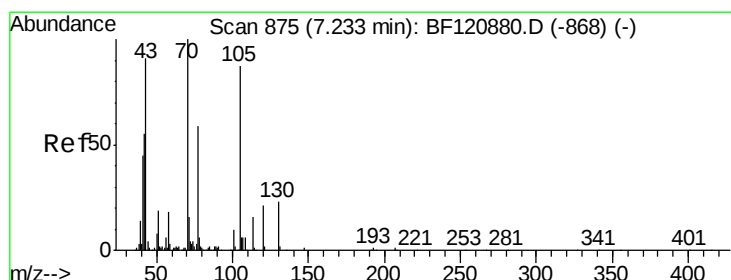
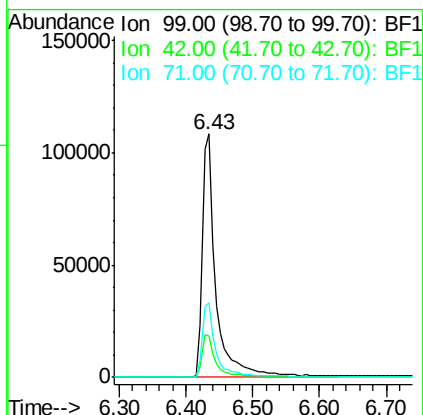
Tot Ion: 99 Resp: 151642

Ion Ratio Lower Upper

99 100

42 17.1 13.5 20.3

71 30.5 25.0 37.4



#19

n-Nitroso-di-n-propylamine

Concen: 2.150 ng

RT: 7.36 min Scan# 896

Delta R.T. 0.13 min

Lab File: BF121223.D

Acq: 7 Aug 2020 1:42

Tgt Ion: 70 Resp: 12087

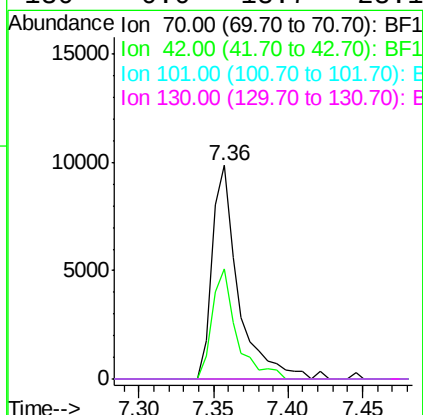
Ion Ratio Lower Upper

70 100

42 51.6 43.3 64.9

101 0.0 8.4 12.6#

130 0.0 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: BF121223.D

Acq: 7 Aug 2020 1:42

Instrument :

BNA_F

ClientSampleId :

OK-03-080520

Tot Ion:136 Resp: 495645

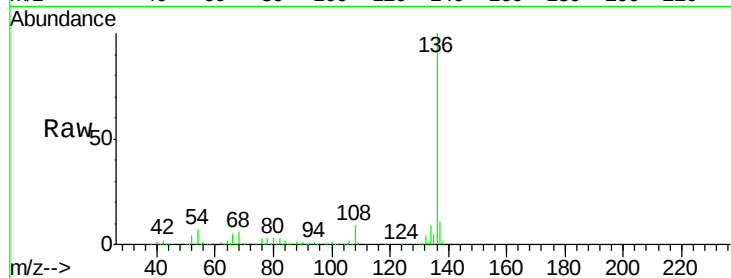
Ion Ratio Lower Upper

136 100

137 10.8 9.0 13.4

54 7.0 6.1 9.1

68 5.6 5.0 7.6

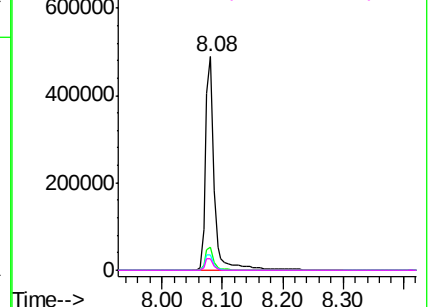
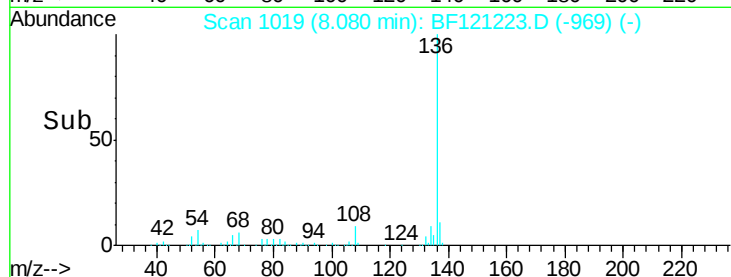


Abundance Ion 136.00 (135.70 to 136.70): E

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: 11.346 ng

RT: 7.36 min Scan# 896

Delta R.T. -0.02 min

Lab File: BF121223.D

Acq: 7 Aug 2020 1:42

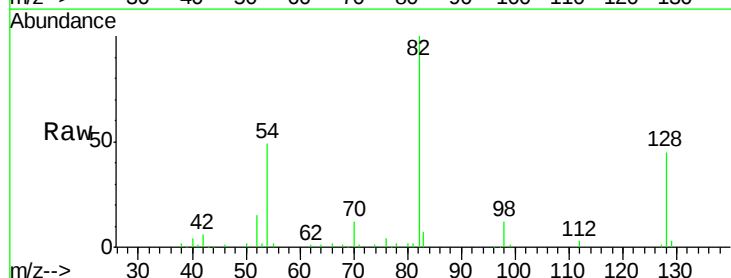
Tgt Ion: 82 Resp: 97185

Ion Ratio Lower Upper

82 100

128 45.0 39.2 58.8

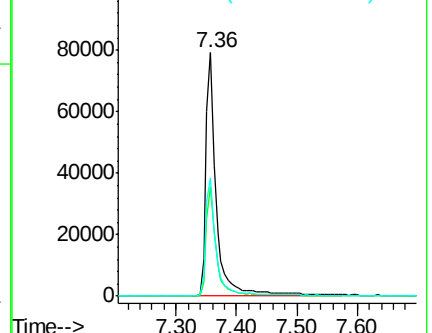
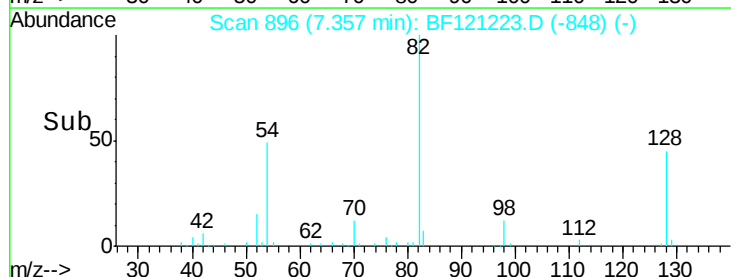
54 48.6 37.8 56.8

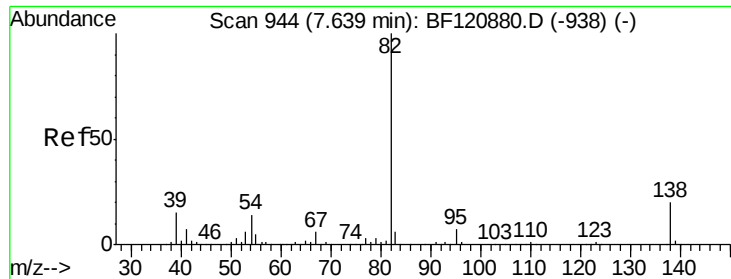


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 5.375 ng

RT: 7.36 min Scan# 896

Delta R.T. -0.28 min

Lab File: BF121223.D

Acq: 7 Aug 2020 1:42

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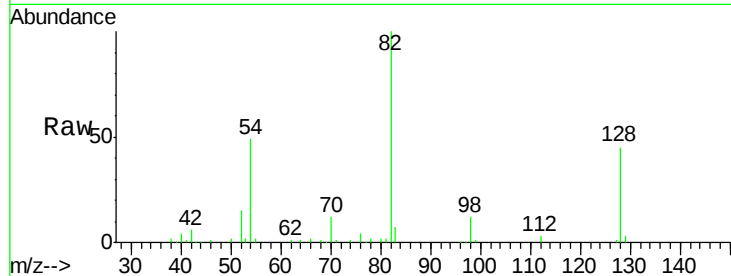
Tot Ion: 82 Resp: 91891

Ion Ratio Lower Upper

82 100

95 0.0 5.5 8.3#

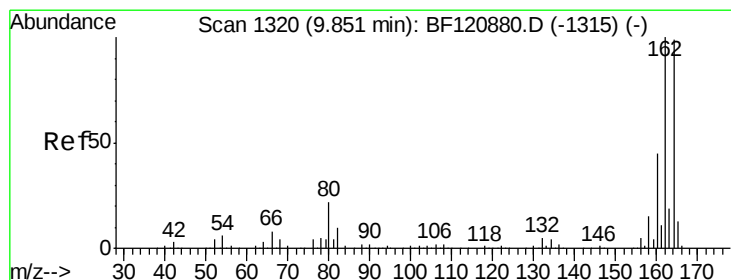
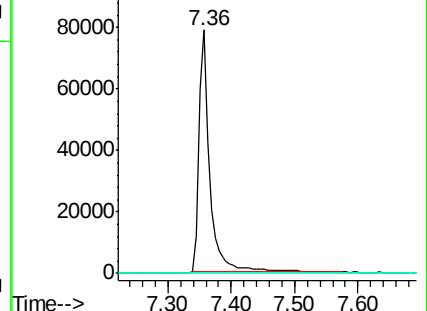
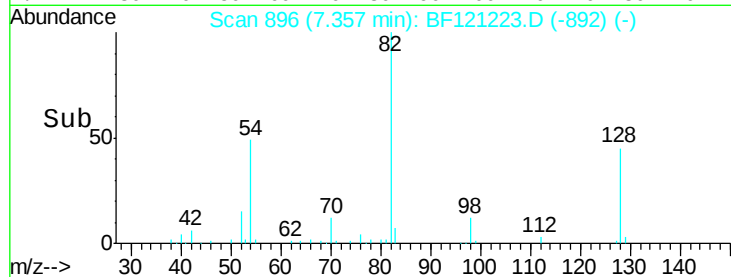
138 0.0 16.2 24.2#



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: BF121223.D

Acq: 7 Aug 2020 1:42

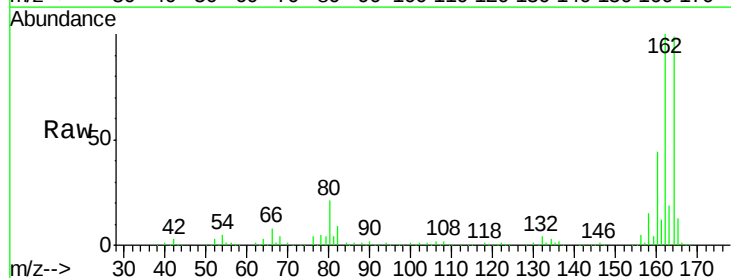
Tgt Ion:164 Resp: 249387

Ion Ratio Lower Upper

164 100

162 101.4 82.2 123.2

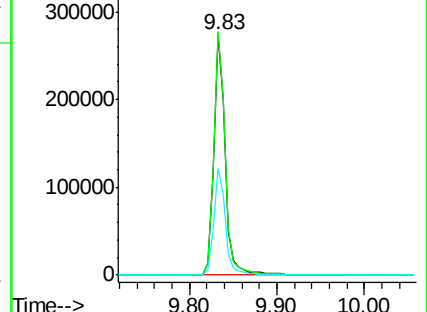
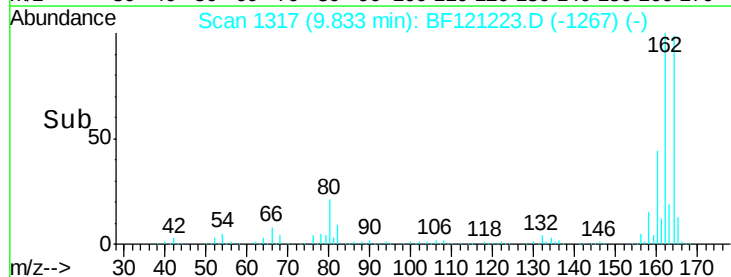
160 44.7 37.2 55.8



Abundance Ion 164.00 (163.70 to 164.70): BF1

Ion 162.00 (161.70 to 162.70): BF1

Ion 160.00 (159.70 to 160.70): BF1

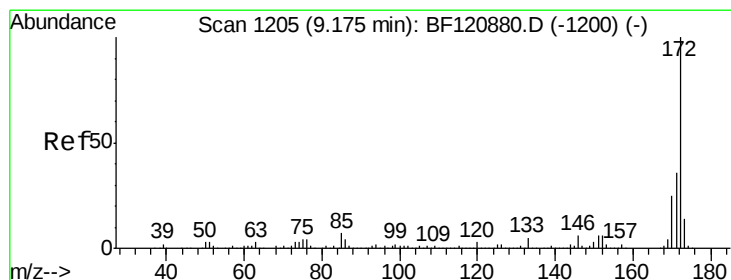
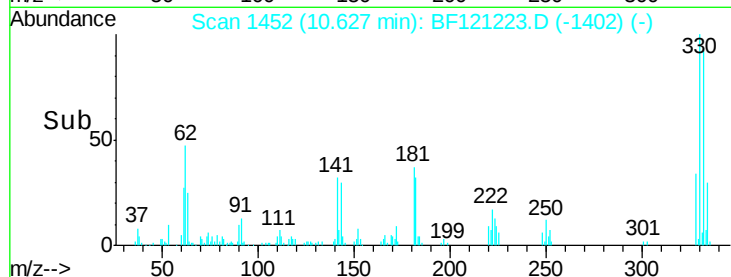
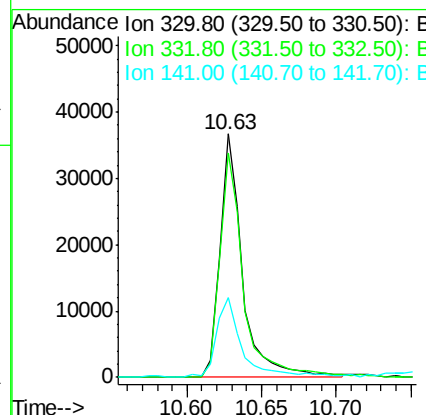
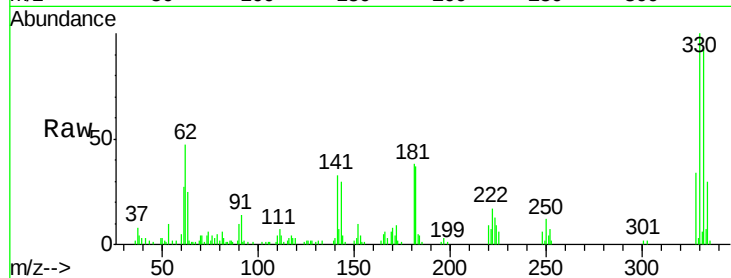




#42
 2,4,6-Tribromophenol
 Concen: 14.203 ng
 RT: 10.63 min Scan# 1452
 Delta R.T. -0.01 min
 Lab File: BF121223.D
 Acq: 7 Aug 2020 1:42

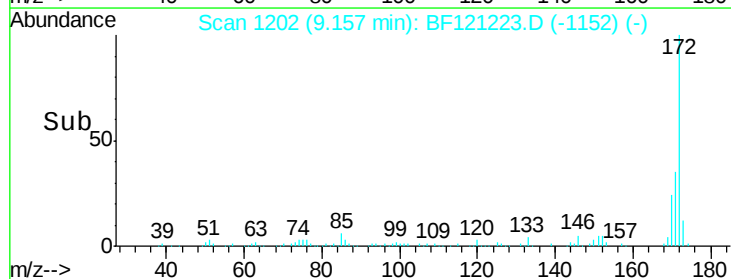
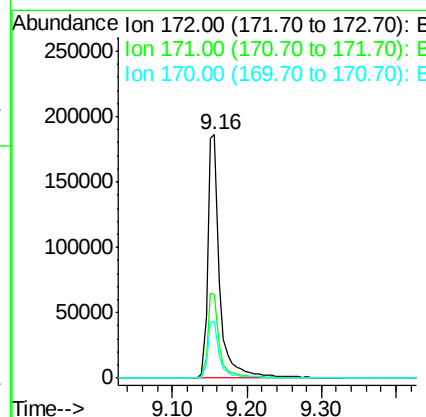
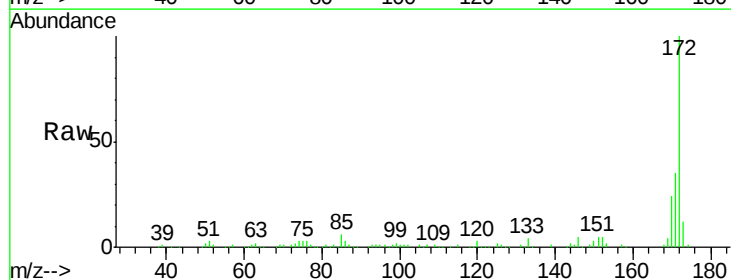
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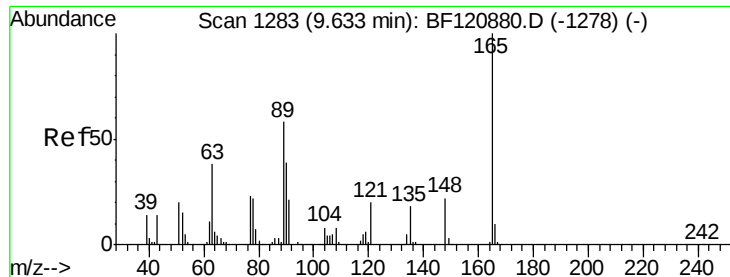
Tot Ion:330 Resp: 38771
 Ion Ratio Lower Upper
 330 100
 332 97.3 76.1 114.1
 141 37.8 24.1 36.1#



#45
 2-Fluorobiphenyl
 Concen: 12.734 ng
 RT: 9.16 min Scan# 1202
 Delta R.T. -0.01 min
 Lab File: BF121223.D
 Acq: 7 Aug 2020 1:42

Tgt Ion:172 Resp: 212707
 Ion Ratio Lower Upper
 172 100
 171 34.5 29.0 43.4
 170 23.6 19.6 29.4

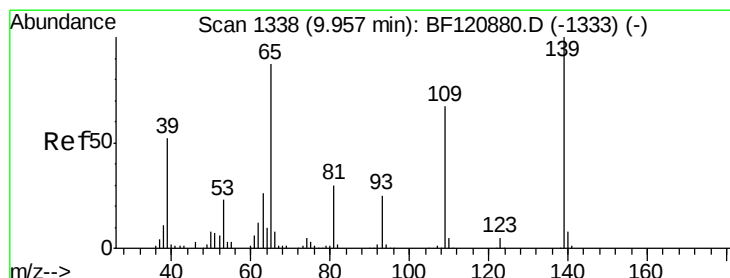
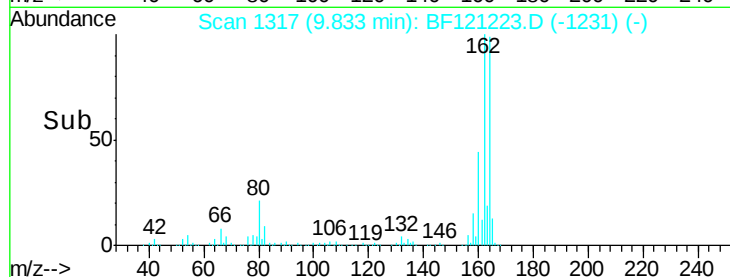
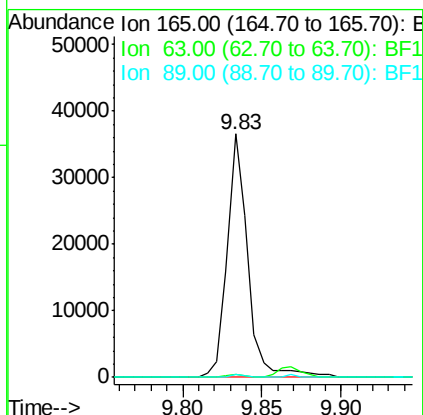
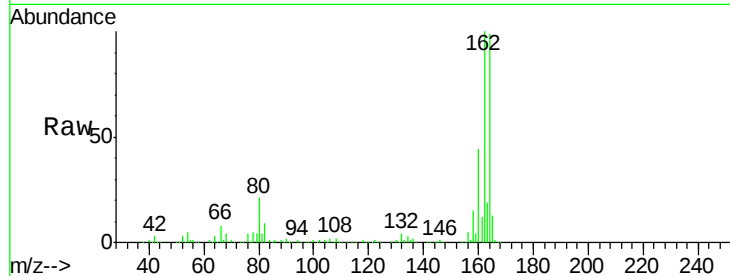




#51
 2,6-Dinitrotoluene
 Concen: 8.573 ng
 RT: 9.83 min Scan# 1317
 Delta R.T. 0.21 min
 Lab File: BF121223.D
 Acq: 7 Aug 2020 1:42

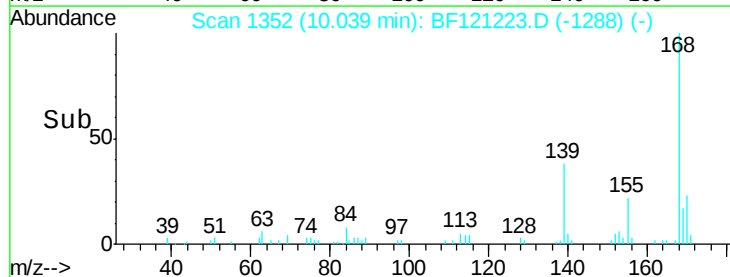
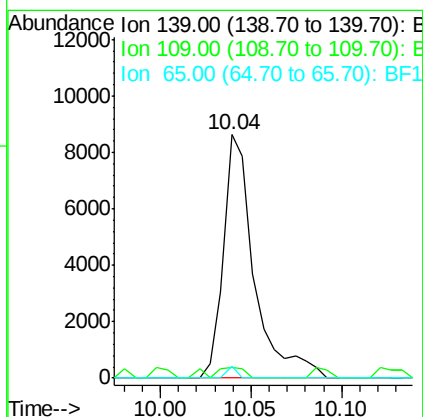
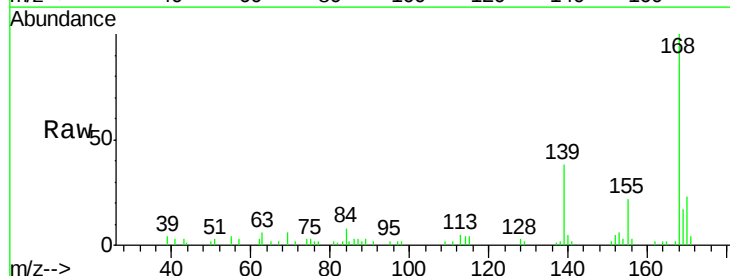
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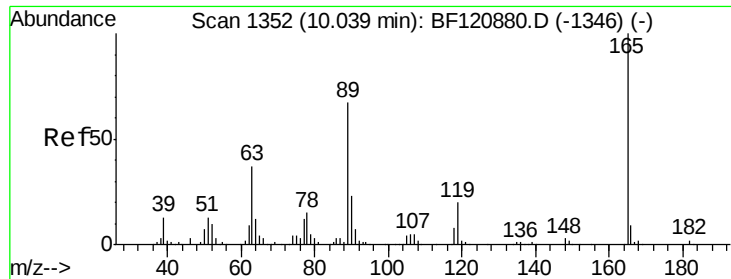
Tot Ion	Ratio	Lower	Upper
165	100		
63	1.2	41.1	61.7#
89	1.2	43.5	65.3#



#56
 4-Nitrophenol
 Concen: 2.780 ng
 RT: 10.04 min Scan# 1352
 Delta R.T. 0.08 min
 Lab File: BF121223.D
 Acq: 7 Aug 2020 1:42

Tgt Ion	Ratio	Lower	Upper
139	100		
109	4.5	44.8	84.8#
65	4.6	65.6	105.6#

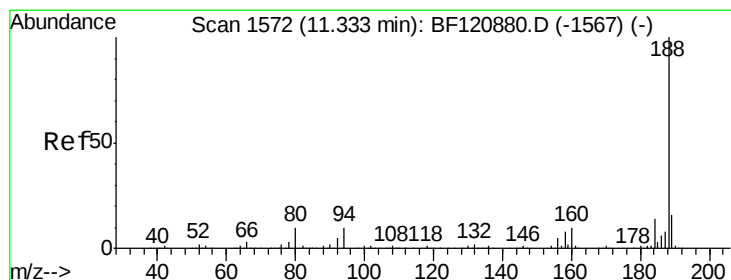
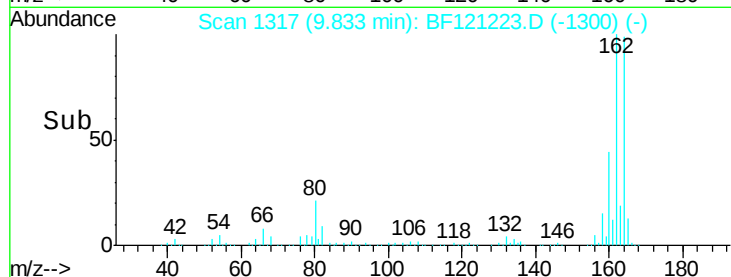
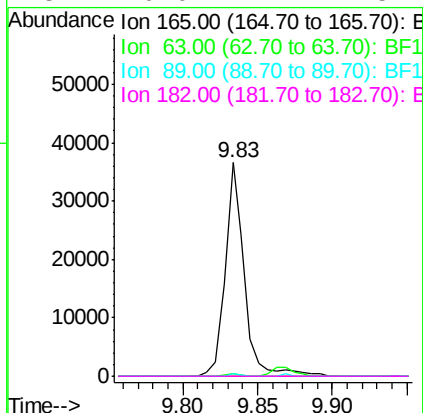
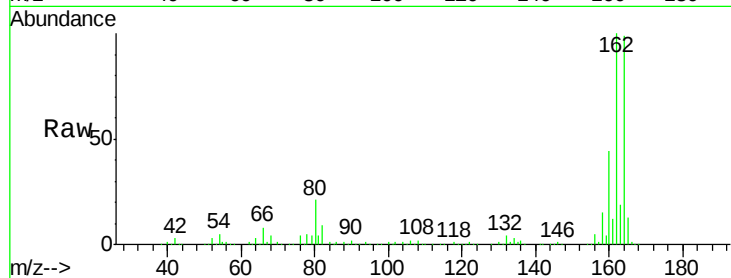




#57
 2,4-Dinitrotoluene
 Concen: 6.529 ng
 RT: 9.83 min Scan# 1317
 Delta R.T. -0.20 min
 Lab File: BF121223.D
 Acq: 7 Aug 2020 1:42

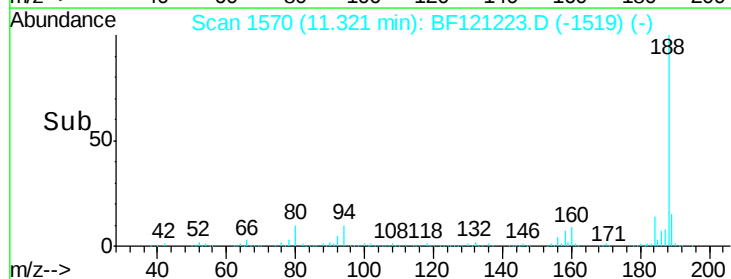
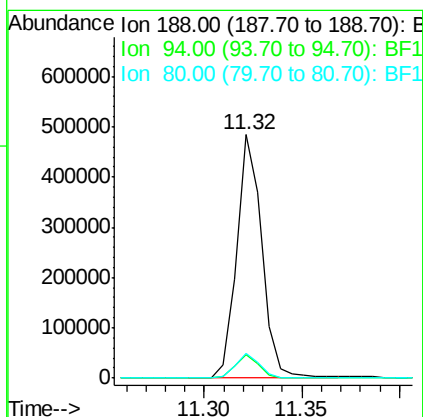
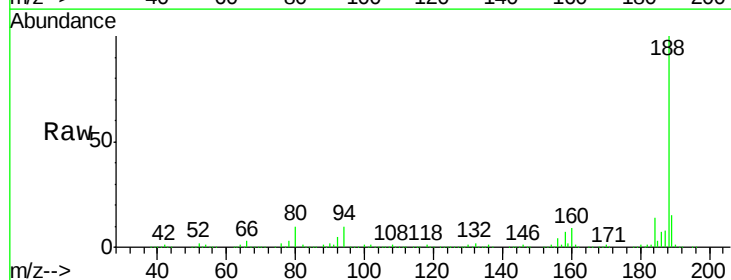
Instrument :
 BNA_F
 ClientSampleId :
 OK-03-080520

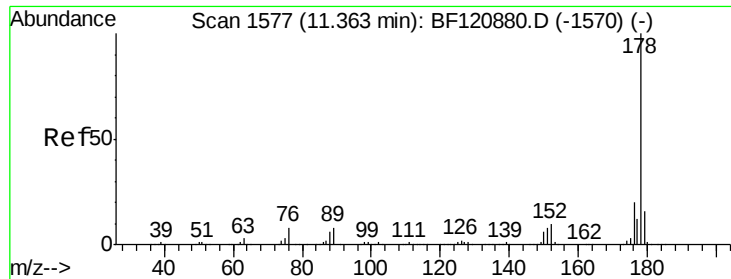
Tot Ion:165	Resp:	33139
Ion Ratio	Lower	Upper
165	100	
63	1.2	29.8 44.8#
89	1.2	50.3 75.5#
182	0.0	2.1 3.1#



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.32 min Scan# 1570
 Delta R.T. -0.00 min
 Lab File: BF121223.D
 Acq: 7 Aug 2020 1:42

Tgt Ion:188	Resp:	431640
Ion Ratio	Lower	Upper
188	100	
94	9.8	8.0 12.0
80	10.2	8.3 12.5





#71

Phenanthrene

Concen: 26.626 ng

RT: 11.35 min Scan# 1575

Delta R.T. -0.00 min

Lab File: BF121223.D

Acq: 7 Aug 2020 1:42

Instrument :

BNA_F

ClientSampleId :

OK-03-080520

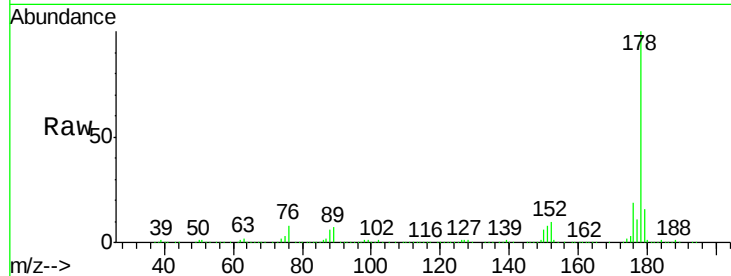
Tot Ion:178 Resp: 591079

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

800000

600000

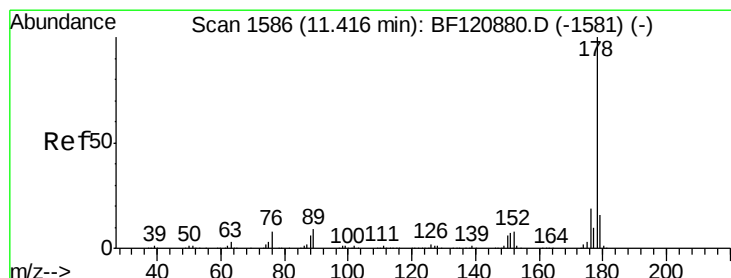
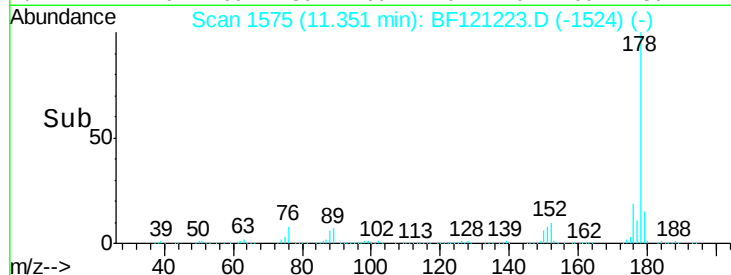
400000

200000

0

11.25 11.30 11.35 11.40

Time-->



#72

Anthracene

Concen: 10.587 ng

RT: 11.40 min Scan# 1583

Delta R.T. -0.01 min

Lab File: BF121223.D

Acq: 7 Aug 2020 1:42

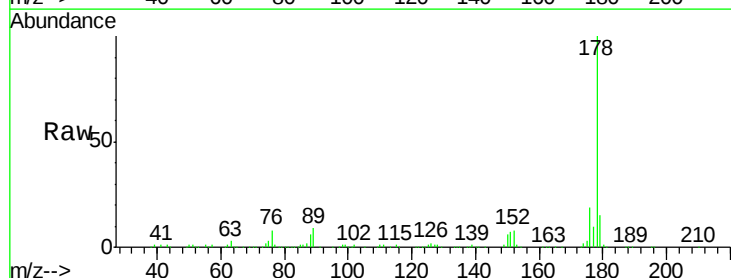
Tgt Ion:178 Resp: 235989

Ion Ratio Lower Upper

178 100

176 18.6 15.8 23.8

179 15.1 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

800000

600000

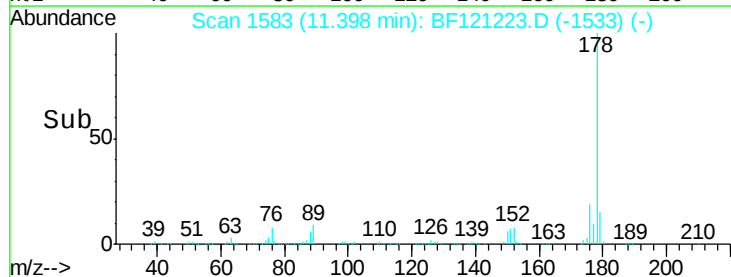
400000

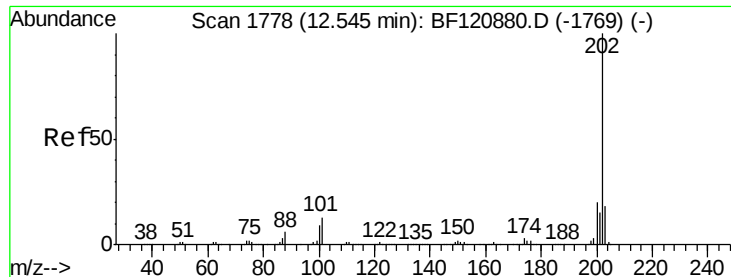
200000

0

11.40 11.50

Time-->





#75

Fluoranthene

Concen: 46.846 ng

RT: 12.54 min Scan# 1777

Delta R.T. -0.00 min

Lab File: BF121223.D

Acq: 7 Aug 2020 1:42

Instrument :

BNA_F

ClientSampleId :

OK-03-080520

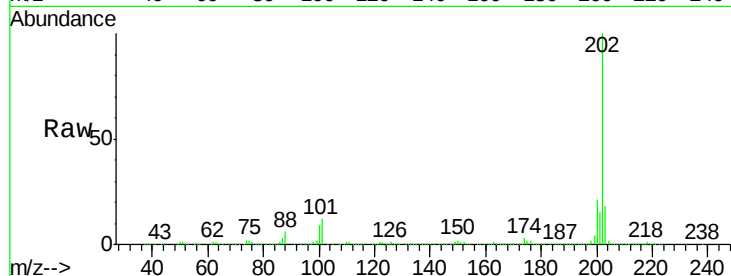
Tot Ion:202 Resp: 1152716

Ion Ratio Lower Upper

202 100

101 12.2 0.0 30.5

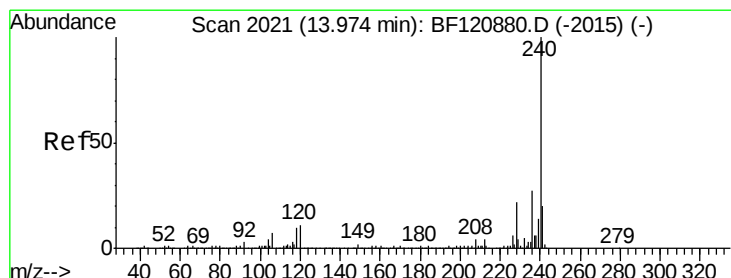
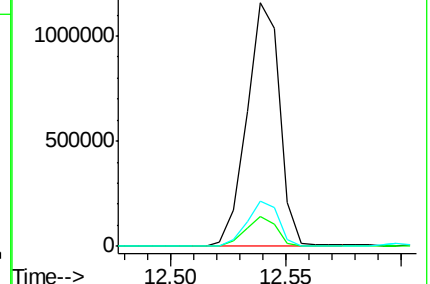
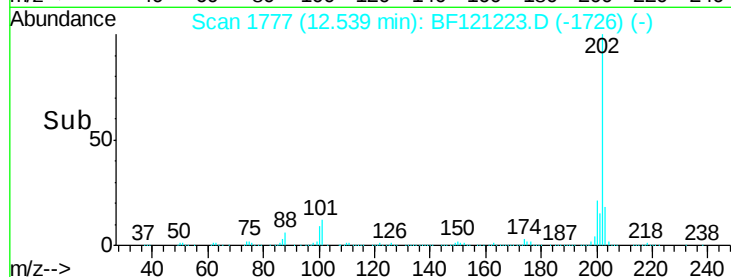
203 18.5 0.0 37.7



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# 2020

Delta R.T. 0.01 min

Lab File: BF121223.D

Acq: 7 Aug 2020 1:42

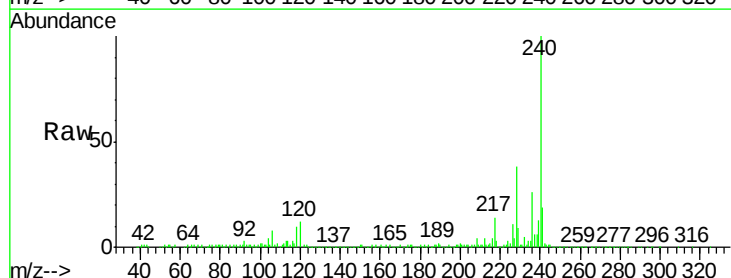
Tgt Ion:240 Resp: 324831

Ion Ratio Lower Upper

240 100

120 11.6 9.3 13.9

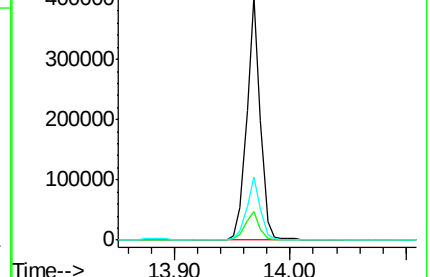
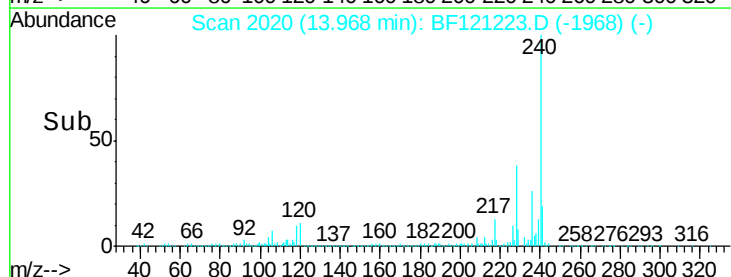
236 26.1 21.1 31.7

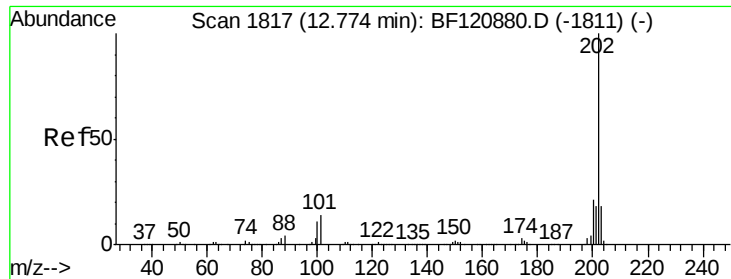


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

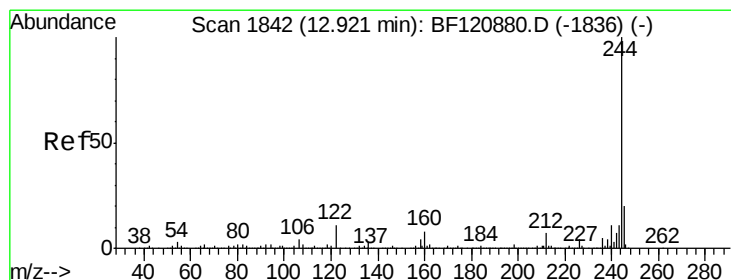
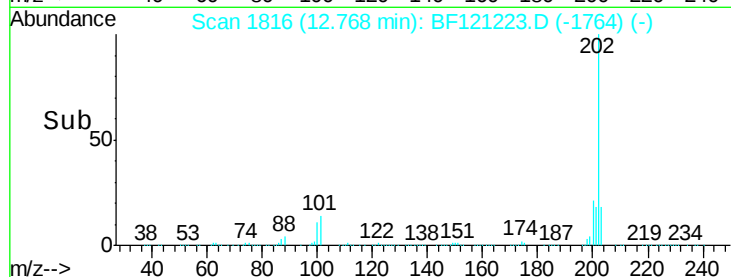
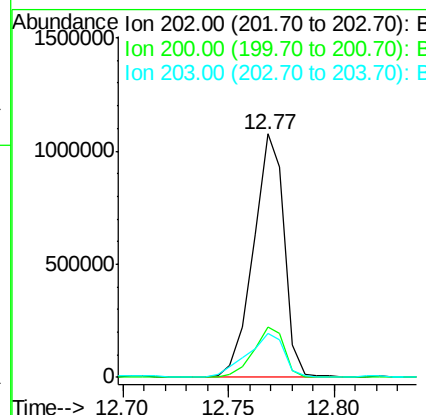
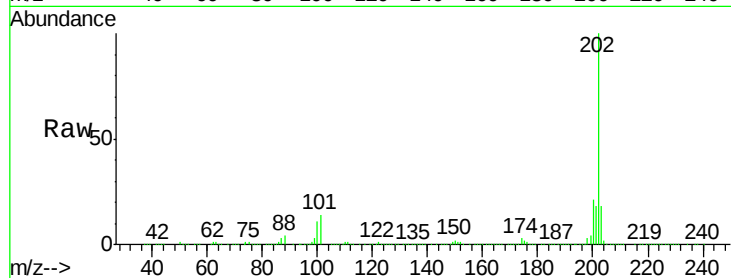




#78
Pvrene
Concen: 47.295 ng
RT: 12.77 min Scan# 1816
Delta R.T. 0.01 min
Lab File: BF121223.D
Acq: 7 Aug 2020 1:42

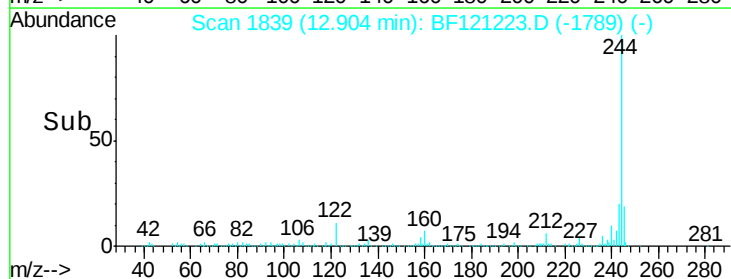
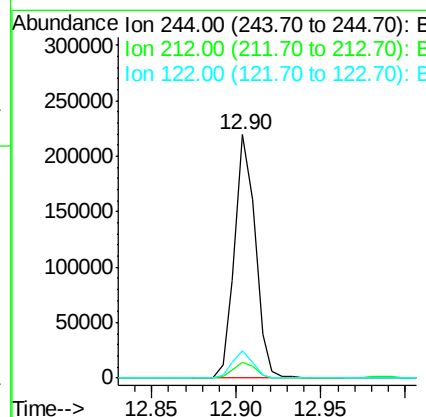
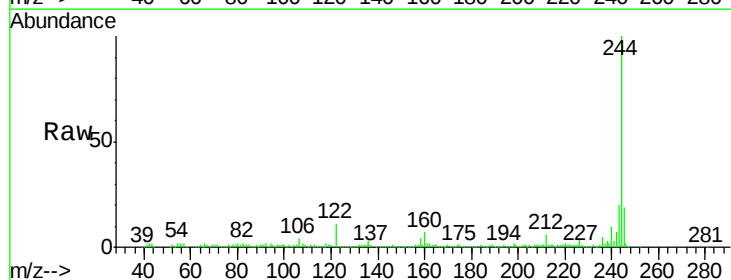
Instrument :
BNA_F
ClientSampleId :
OK-03-080520

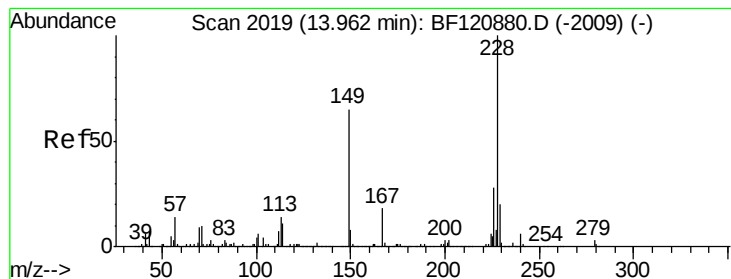
Tot Ion:202 Resp: 1086156
Ion Ratio Lower Upper
202 100
200 20.9 17.0 25.6
203 18.2 14.6 21.8



#79
Terphenyl-d14
Concen: 12.580 ng
RT: 12.90 min Scan# 1839
Delta R.T. -0.01 min
Lab File: BF121223.D
Acq: 7 Aug 2020 1:42

Tgt Ion:244 Resp: 187983
Ion Ratio Lower Upper
244 100
212 6.5 5.7 8.5
122 11.4 8.3 12.5





#81

Benzo(a)anthracene

Concen: 34.754 ng

RT: 13.96 min Scan# 2018

Delta R.T. 0.01 min

Lab File: BF121223.D

Acq: 7 Aug 2020 1:42

Instrument :

BNA_F

ClientSampleId :

OK-03-080520

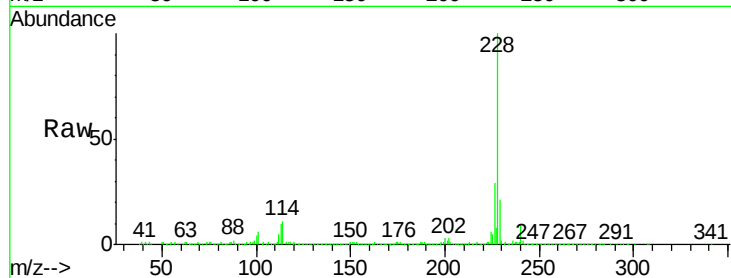
Tot Ion:228 Resp: 683612

Ion Ratio Lower Upper

228 100

226 28.6 22.6 34.0

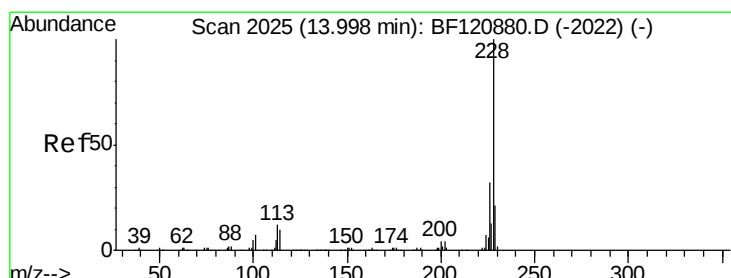
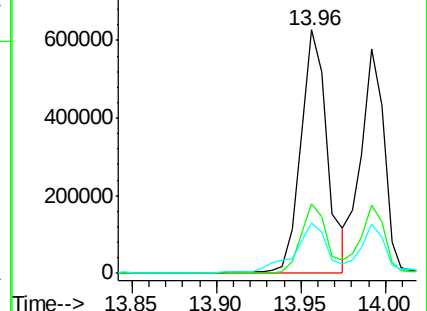
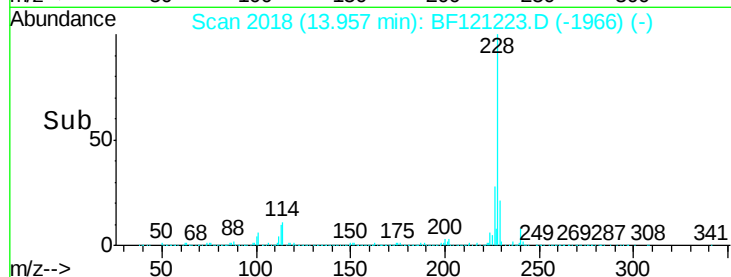
229 20.9 16.1 24.1



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: 26.975 ng

RT: 13.99 min Scan# 2024

Delta R.T. -0.00 min

Lab File: BF121223.D

Acq: 7 Aug 2020 1:42

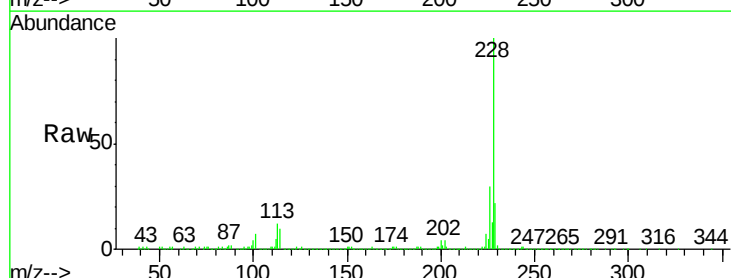
Tgt Ion:228 Resp: 557616

Ion Ratio Lower Upper

228 100

226 30.2 25.4 38.0

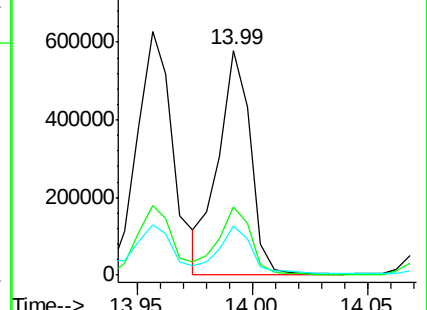
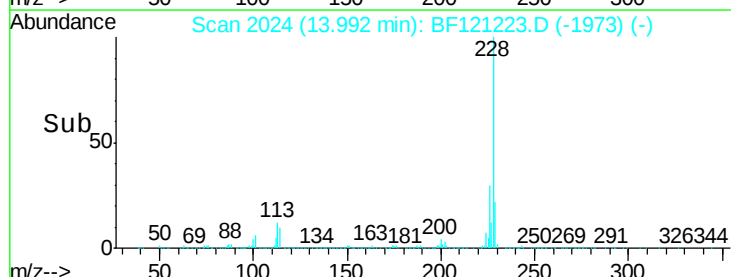
229 22.0 16.2 24.4

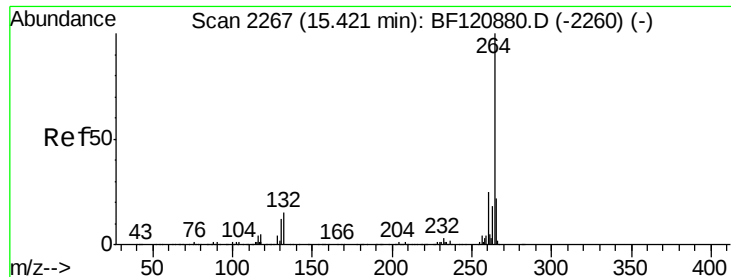


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

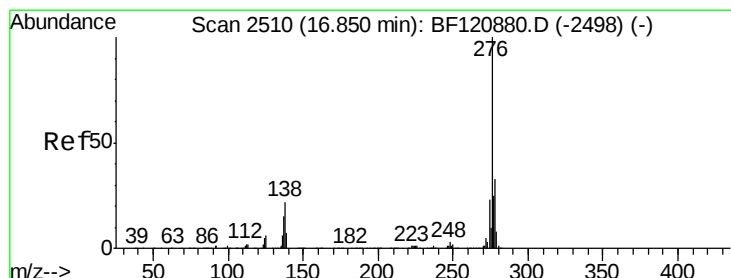
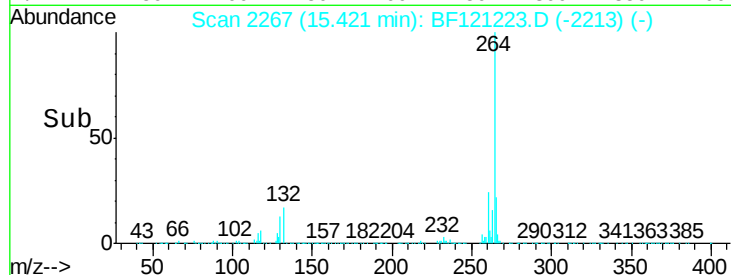
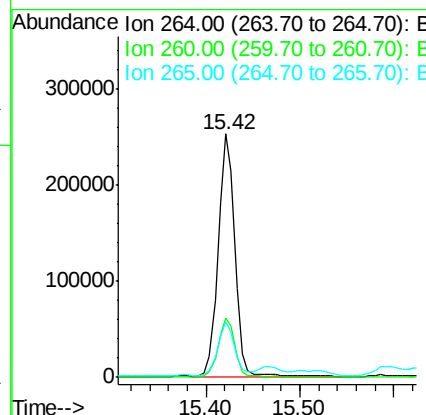
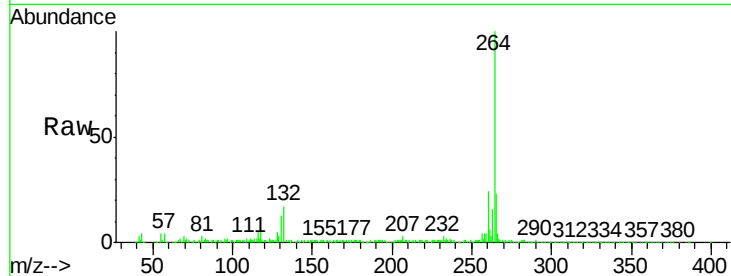




#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.42 min Scan# 2267
Delta R.T. 0.02 min
Lab File: BF121223.D
Acq: 7 Aug 2020 1:42

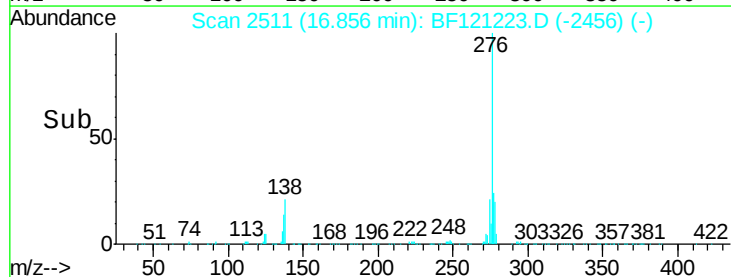
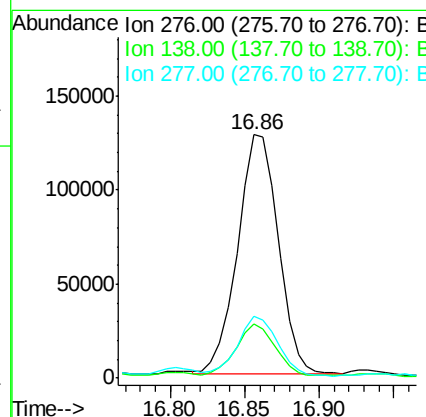
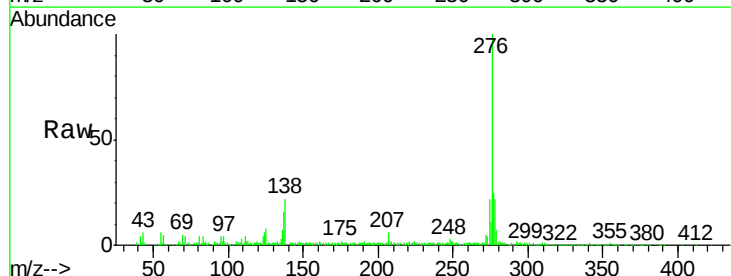
Instrument :
BNA_F
ClientSampleId :
OK-03-080520

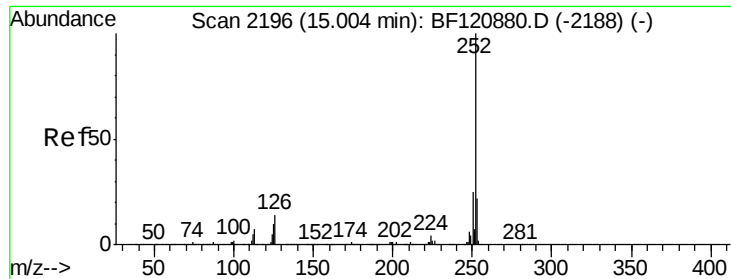
Tot Ion:264 Resp: 315952
Ion Ratio Lower Upper
264 100
260 24.4 19.9 29.9
265 22.8 17.8 26.8



#87
Indeno(1,2,3-cd)pyrene
Concen: 10.905 ng
RT: 16.86 min Scan# 2511
Delta R.T. 0.02 min
Lab File: BF121223.D
Acq: 7 Aug 2020 1:42

Tgt Ion:276 Resp: 239621
Ion Ratio Lower Upper
276 100
138 21.0 19.3 28.9
277 24.7 20.1 30.1

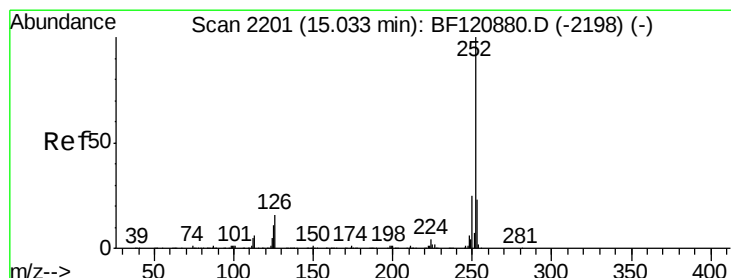
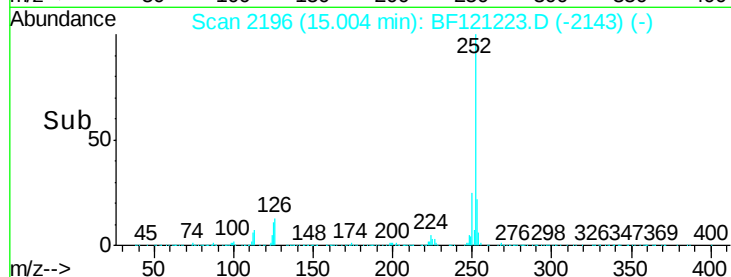
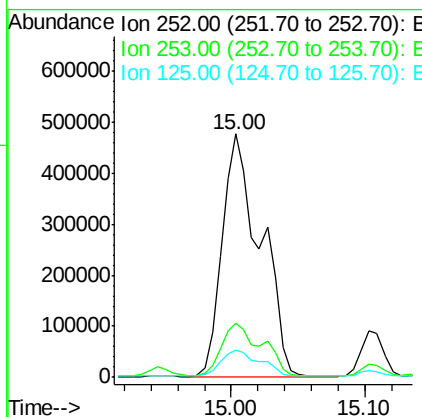
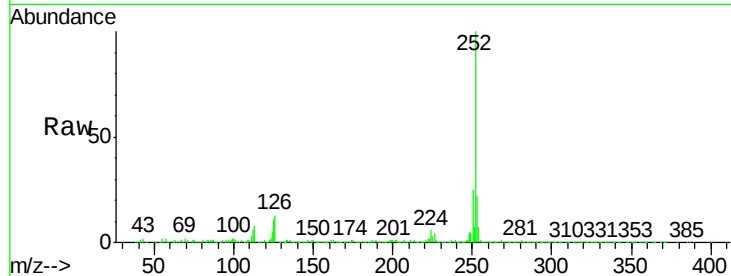




#88
Benzo(b)fluoranthene
Concen: 49.969 ng
RT: 15.00 min Scan# 2196
Delta R.T. 0.01 min
Lab File: BF121223.D
Acq: 7 Aug 2020 1:42

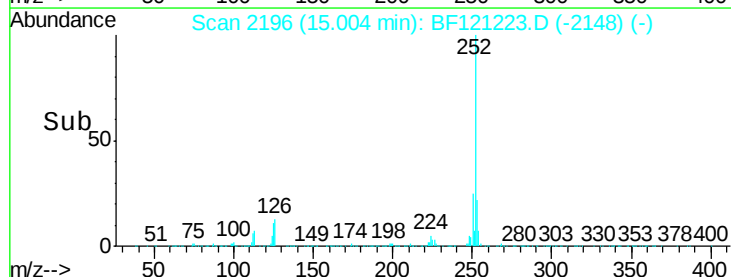
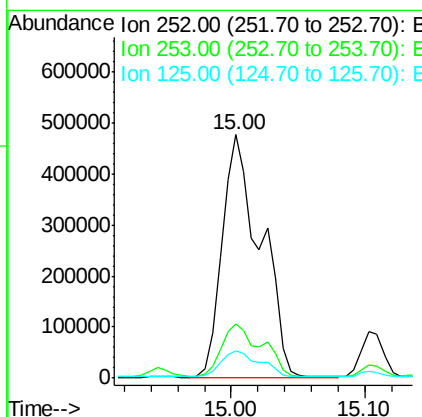
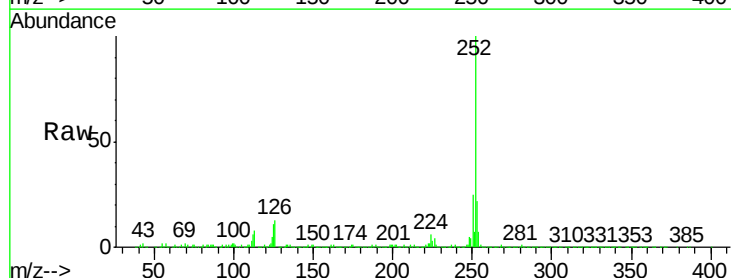
Instrument :
BNA_F
ClientSampleId :
OK-03-080520

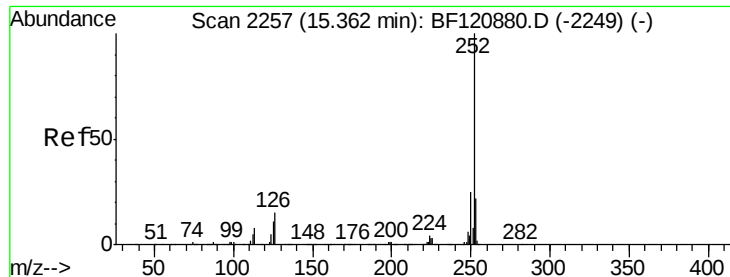
Tot Ion:252 Resp: 954322
Ion Ratio Lower Upper
252 100
253 22.4 17.9 26.9
125 11.2 8.1 12.1



#89
Benzo(k)fluoranthene
Concen: 54.791 ng
RT: 15.00 min Scan# 2196
Delta R.T. -0.02 min
Lab File: BF121223.D
Acq: 7 Aug 2020 1:42

Tgt Ion:252 Resp: 954322
Ion Ratio Lower Upper
252 100
253 22.4 18.1 27.1
125 11.2 8.0 12.0





#90

Benzo(a)pyrene

Concen: 28.833 ng

RT: 15.36 min Scan# 2257

Delta R.T. 0.02 min

Lab File: BF121223.D

Acq: 7 Aug 2020 1:42

Instrument :

BNA_F

ClientSampleId :

OK-03-080520

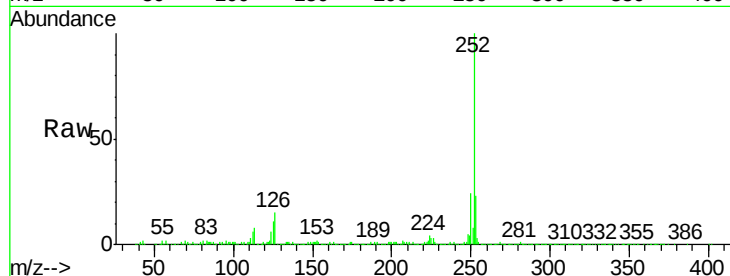
Tot Ion:252 Resp: 502395

Ion Ratio Lower Upper

252 100

253 22.7 18.0 27.0

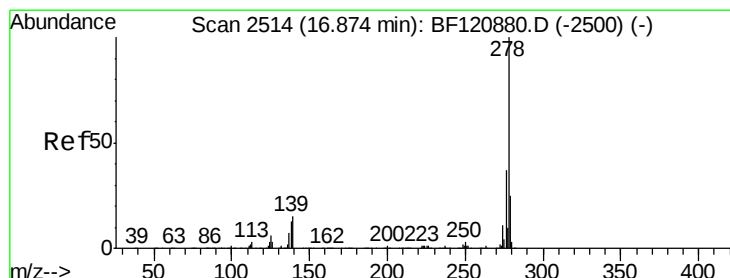
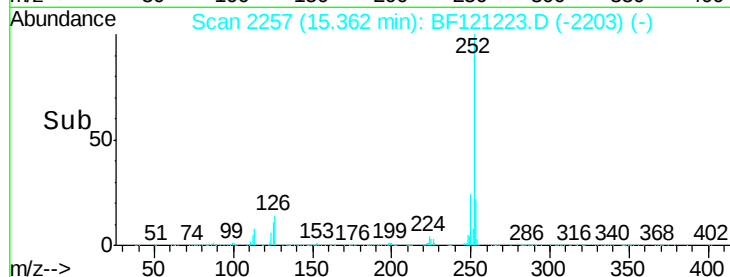
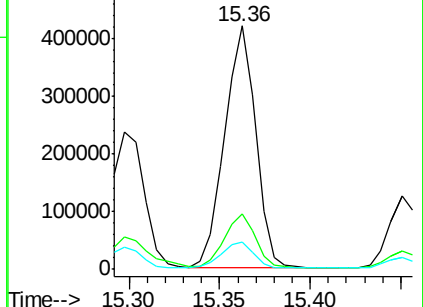
125 11.2 9.5 14.3



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



#91

Dibenzo(a,h)anthracene

Concen: 3.092 ng

RT: 17.03 min Scan# 2540

Delta R.T. 0.18 min

Lab File: BF121223.D

Acq: 7 Aug 2020 1:42

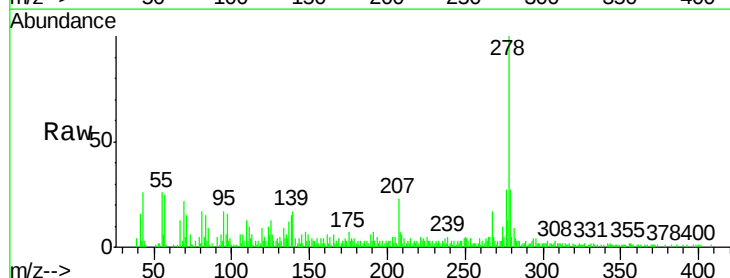
Tgt Ion:278 Resp: 55498

Ion Ratio Lower Upper

278 100

139 17.4 12.6 18.8

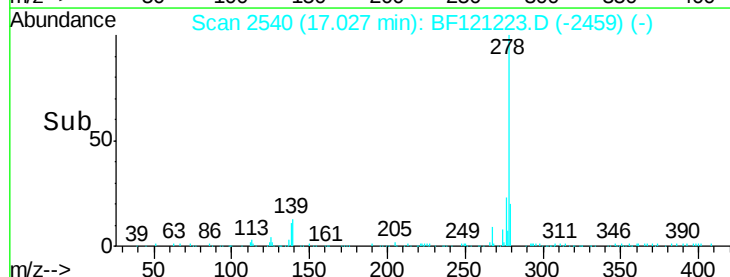
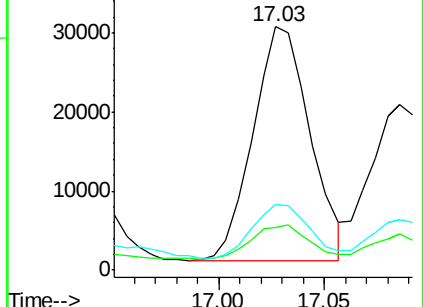
279 27.1 19.5 29.3

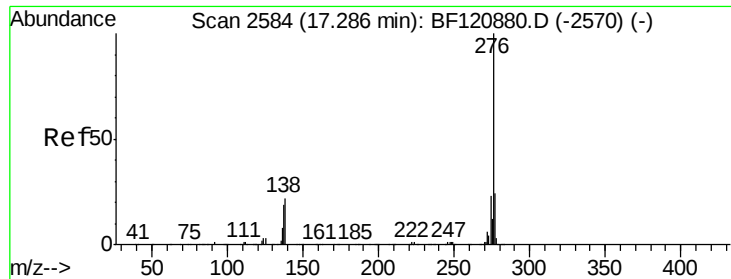


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E

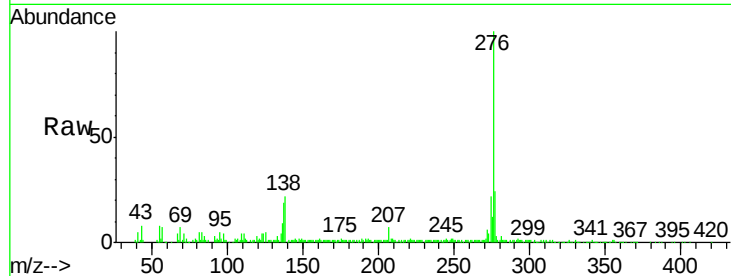




#92
 Benzo(a,h,i)perylene
 Concen: 11.769 ng
 RT: 17.29 min Scan# 2585
 Delta R.T. 0.03 min
 Lab File: BF121223.D
 Acq: 7 Aug 2020 1:42

Instrument :
 BNA_F
 ClientSampleId :
 OK-03-080520

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.9	19.4	29.0
138	21.6	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

