

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072920\
 Data File : BF121114.D
 Acq On : 29 Jul 2020 21:32
 Operator : JU/CG
 Sample : L3436-20 5X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 20

Quant Time: Jul 30 00:56:40 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071620.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jul 29 14:55:43 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	152247	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	547090	20.00	ng	0.00
39) Acenaphthene-d10	9.85	164	270205	20.00	ng	0.00
64) Phenanthrene-d10	11.33	188	458286	20.00	ng	0.00
76) Chrysene-d12	13.97	240	385522	20.00	ng	0.00
86) Perylene-d12	15.42	264	328305	20.00	ng	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.42	112	131452	14.15	ng	0.00
7) Phenol-d6	6.44	99	157444	13.12	ng	0.00
23) Nitrobenzene-d5	7.36	82	87965	9.30	ng	-0.01
42) 2,4,6-Tribromophenol	10.63	330	36099	12.21	ng	0.00
45) 2-Fluorobiphenyl	9.16	172	194995	10.77	ng	0.00
79) Terphenyl-d14	12.91	244	179285	10.11	ng	0.00

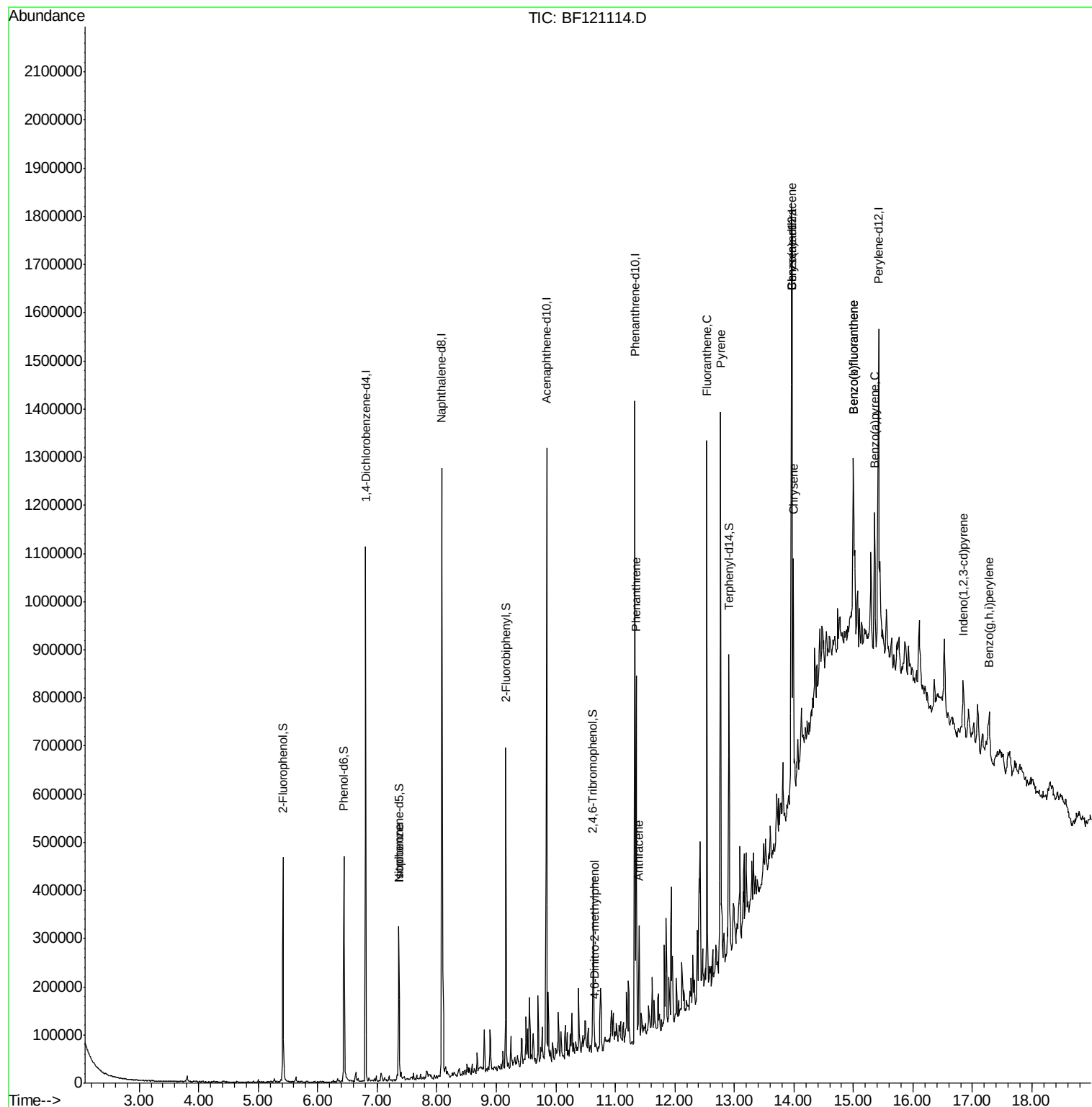
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.36	77	271	Below Cal		# 1
25) Isophorone	7.36	82	86047	4.560	ng	# 62
65) 4,6-Dinitro-2-methylphenol	10.65	198	128	3.887	ng	# 1
71) Phenanthrene	11.35	178	248642	10.549	ng	99
72) Anthracene	11.40	178	91639	3.872	ng	99
75) Fluoranthene	12.54	202	428156	16.389	ng	99
78) Pyrene	12.77	202	442185	16.223	ng	98
81) Benzo(a)anthracene	13.96	228	198033	8.483	ng	94
83) Chrysene	13.99	228	194089	7.911	ng	96
87) Indeno(1,2,3-cd)pyrene	16.84	276	71257	3.121	ng	97
88) Benzo(b)fluoranthene	15.00	252	257286	12.965	ng	# 93
89) Benzo(k)fluoranthene	15.00	252	257286	14.216	ng	# 94
90) Benzo(a)pyrene	15.36	252	141427	7.811	ng	# 95
92) Benzo(a,h,i)perylene	17.28	276	67698	3.681	ng	95

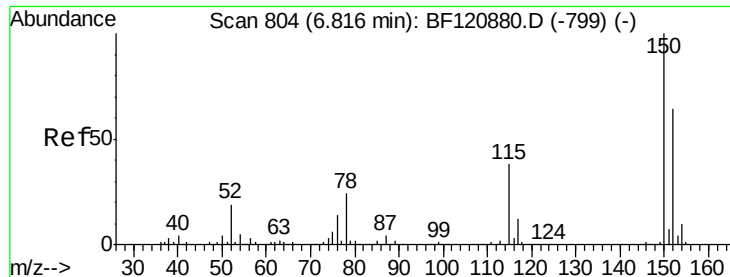
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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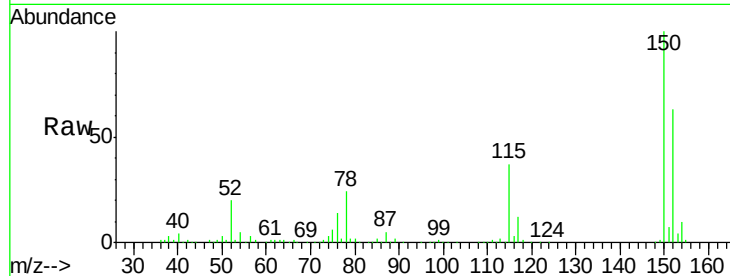


#1

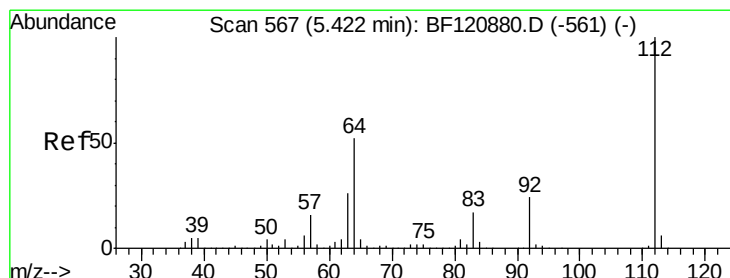
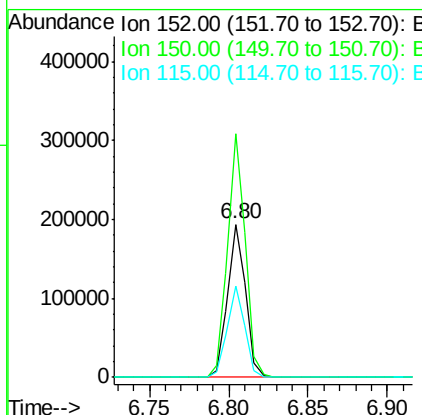
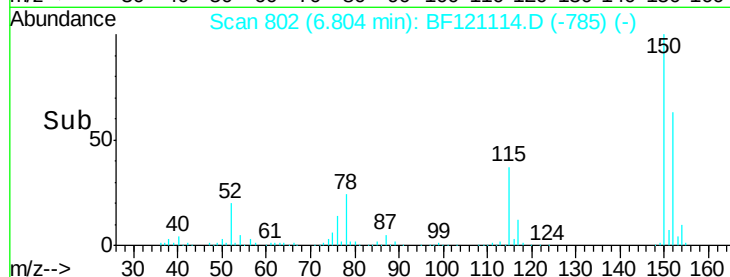
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.80 min Scan# 802
Delta R.T. -0.00 min
Lab File: BF121114.D
Acq: 29 Jul 2020 21:32

Instrument :
BNA_F
ClientSampleId :
20

Tot Ion:152 Resp: 152247
Ion Ratio Lower Upper
152 100
150 158.8 125.6 188.4
115 59.5 46.2 69.2



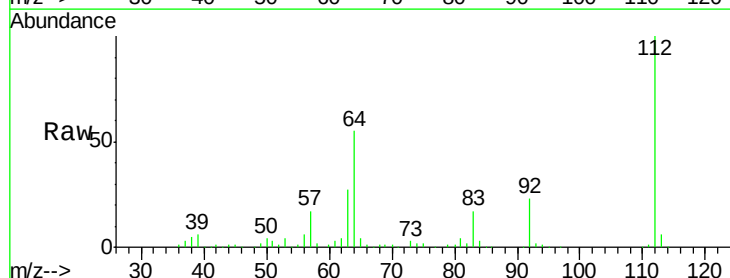
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



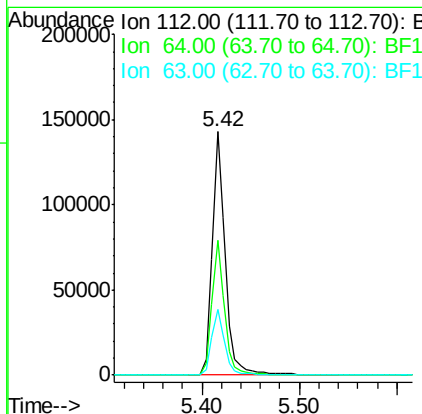
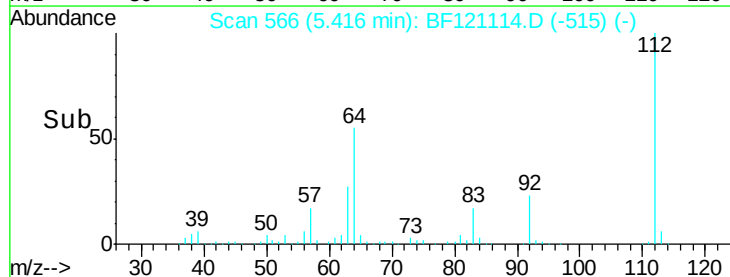
#5

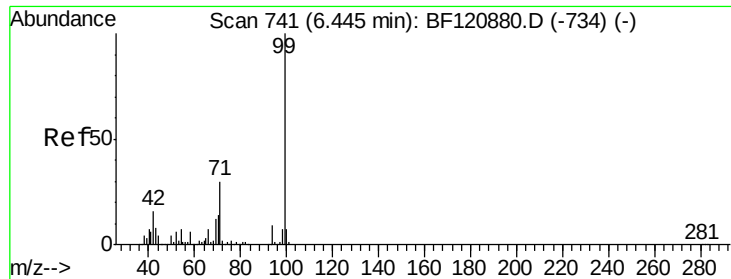
2-Fluorophenol
Concen: 14.154 ng
RT: 5.42 min Scan# 566
Delta R.T. -0.00 min
Lab File: BF121114.D
Acq: 29 Jul 2020 21:32

Tgt Ion:112 Resp: 131452
Ion Ratio Lower Upper
112 100
64 55.1 43.9 65.9
63 27.2 22.7 34.1



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





#7

Phenol-d6

Concen: 13.124 ng

RT: 6.44 min Scan# 740

Delta R.T. -0.01 min

Lab File: BF121114.D

Acq: 29 Jul 2020 21:32

Instrument :

BNA_F

ClientSampleId :

20

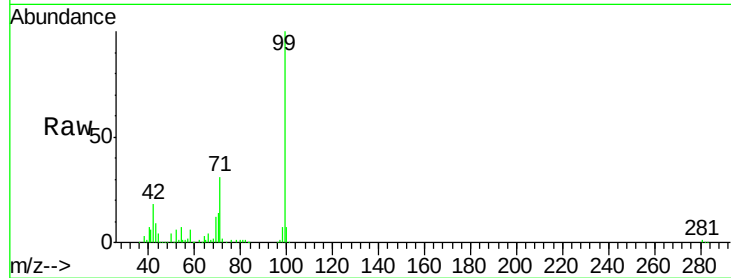
Tot Ion: 99 Resp: 157444

Ion Ratio Lower Upper

99 100

42 17.6 13.5 20.3

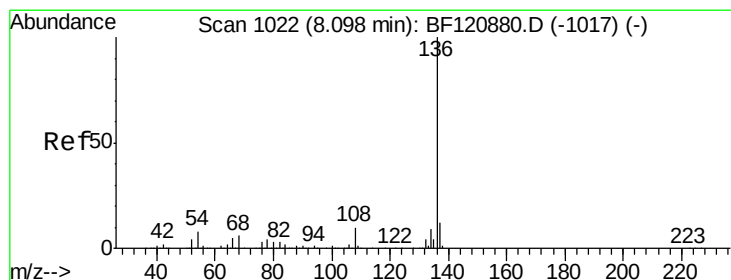
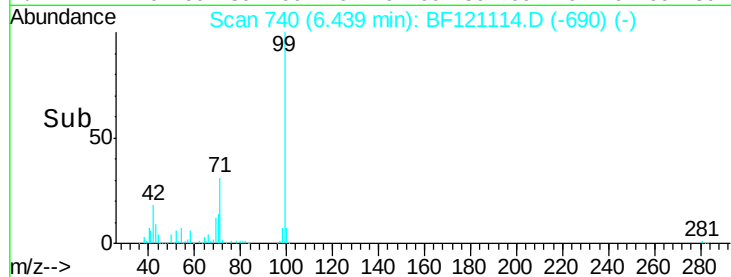
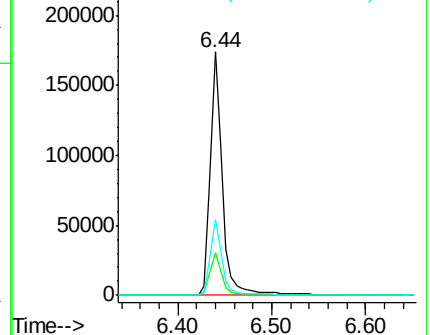
71 31.4 25.0 37.4



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.09 min Scan# 1020

Delta R.T. -0.00 min

Lab File: BF121114.D

Acq: 29 Jul 2020 21:32

Tgt Ion: 136 Resp: 547090

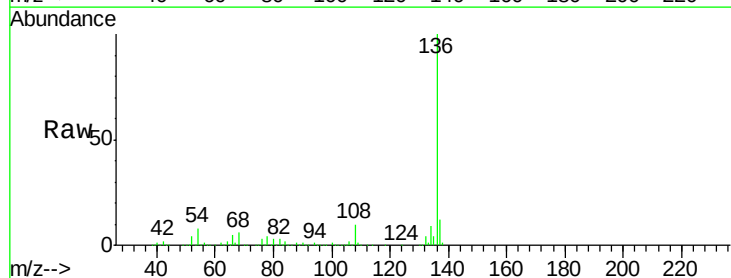
Ion Ratio Lower Upper

136 100

137 11.6 9.0 13.4

54 7.8 6.1 9.1

68 6.3 5.0 7.6

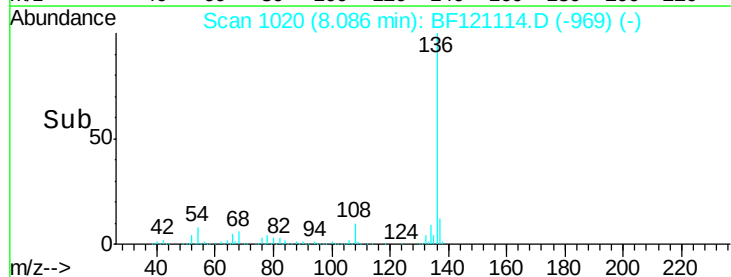
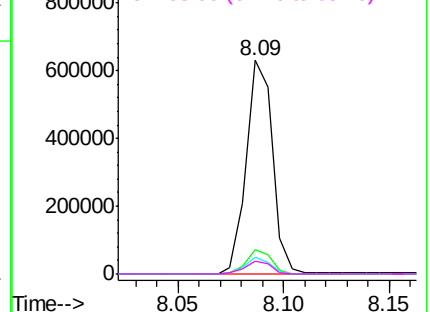


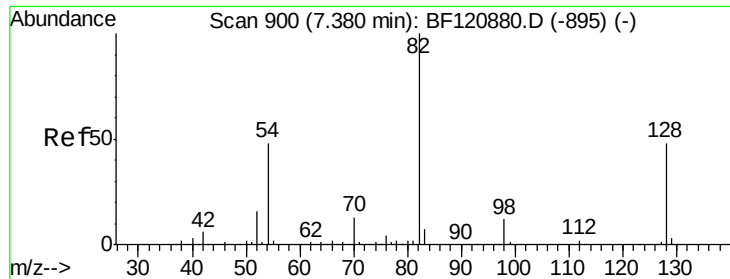
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1

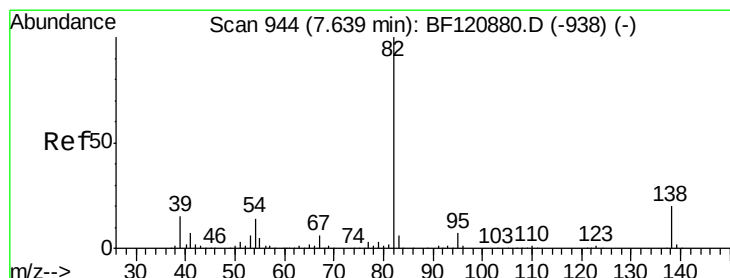
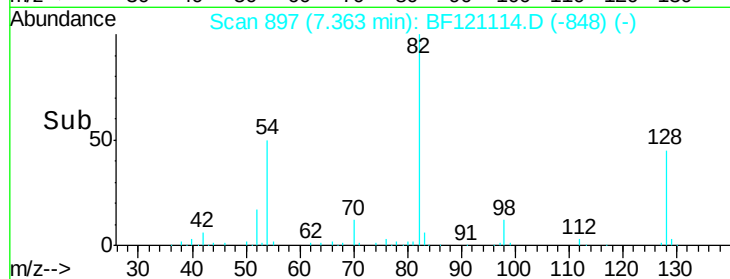
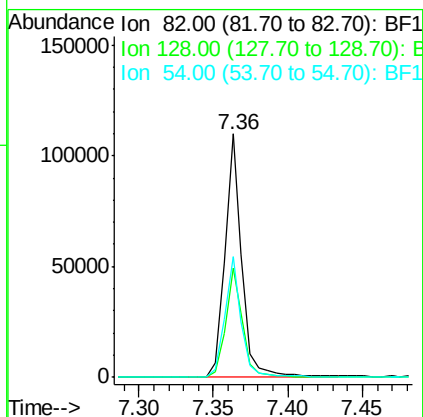
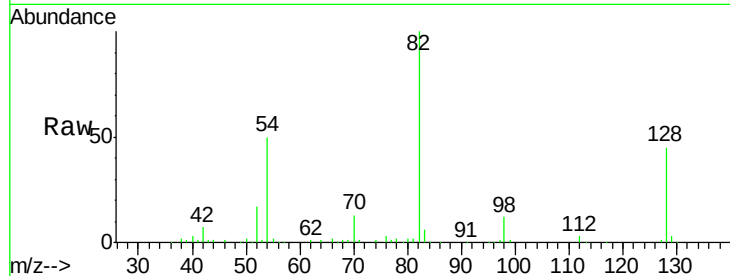




#23
 Nitrobenzene-d5
 Concen: 9.304 ng
 RT: 7.36 min Scan# 897
 Delta R.T. -0.01 min
 Lab File: BF121114.D
 Acq: 29 Jul 2020 21:32

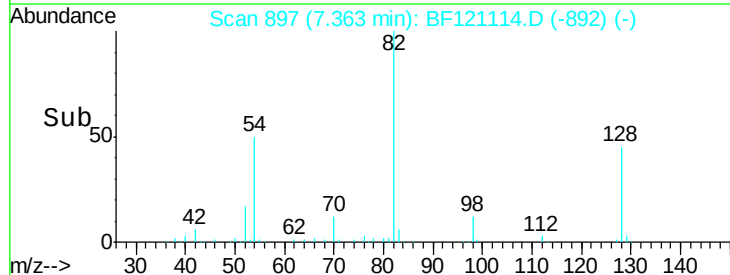
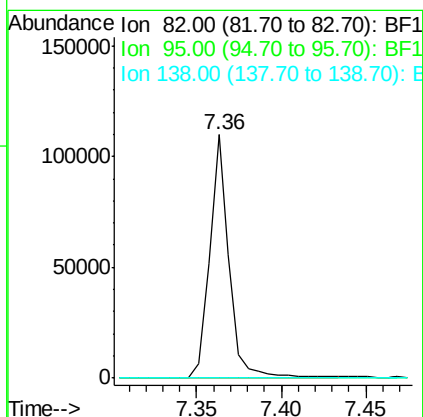
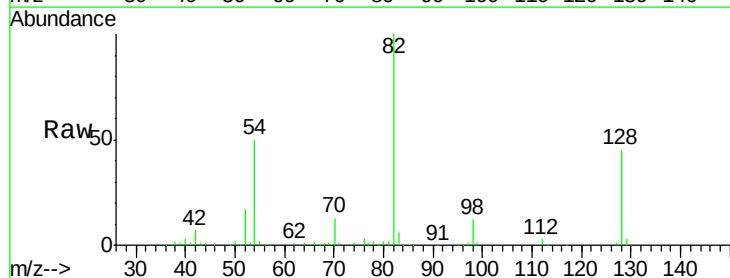
Instrument :
 BNA_F
 ClientSampleID :
 20

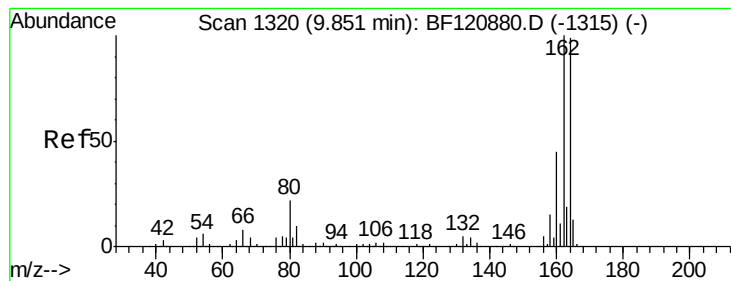
Tot Ion:	82	Resp:	87965
Ion	Ratio	Lower	Upper
82	100		
128	45.1	39.2	58.8
54	49.5	37.8	56.8



#25
 Isophorone
 Concen: 4.560 ng
 RT: 7.36 min Scan# 897
 Delta R.T. -0.27 min
 Lab File: BF121114.D
 Acq: 29 Jul 2020 21:32

Tgt Ion:	82	Resp:	86047
Ion	Ratio	Lower	Upper
82	100		
95	0.3	5.5	8.3#
138	0.0	16.2	24.2#





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.85 min Scan# 1319

Delta R.T. 0.01 min

Lab File: BF121114.D

Acq: 29 Jul 2020 21:32

Instrument :

BNA_F

ClientSampleId :

20

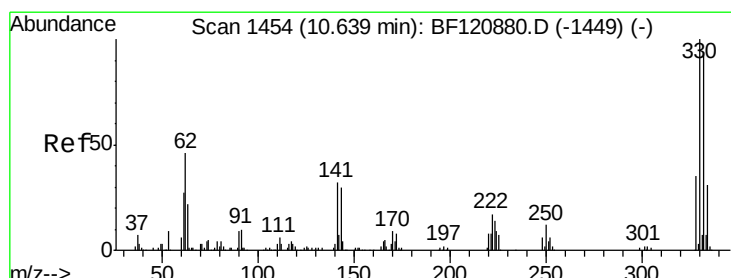
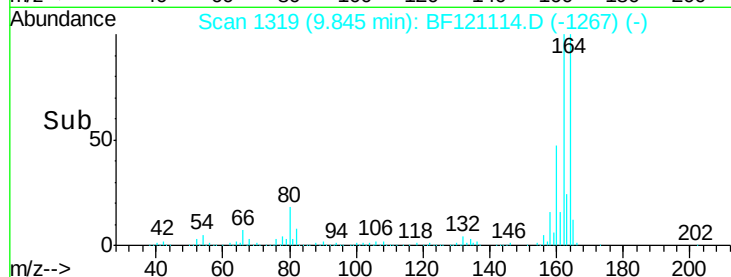
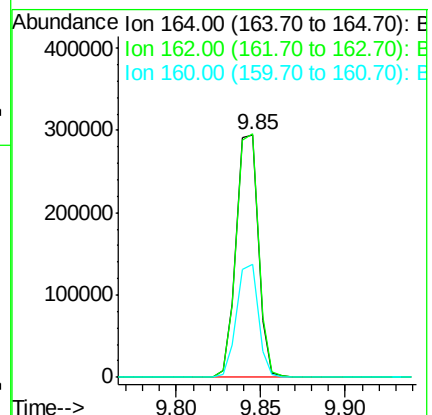
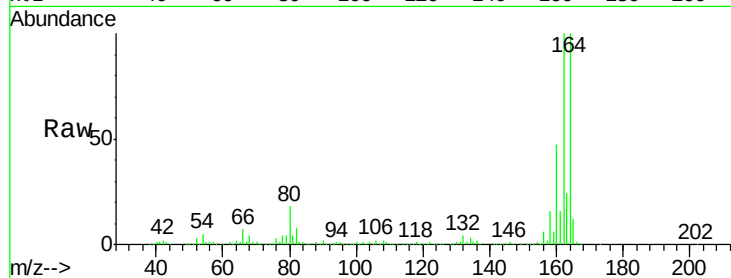
Tot Ion:164 Resp: 270205

Ion Ratio Lower Upper

164 100

162 100.3 82.2 123.2

160 46.7 37.2 55.8



#42

2,4,6-Tribromophenol

Concen: 12.205 ng

RT: 10.63 min Scan# 1452

Delta R.T. -0.01 min

Lab File: BF121114.D

Acq: 29 Jul 2020 21:32

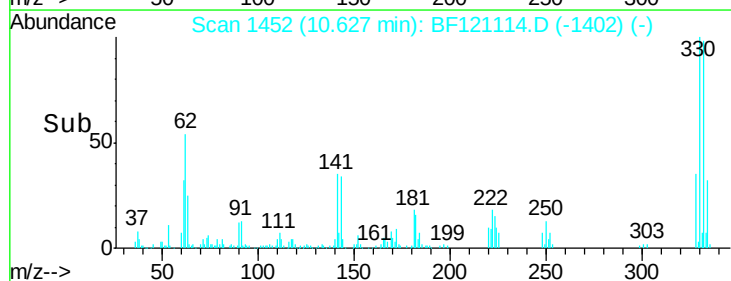
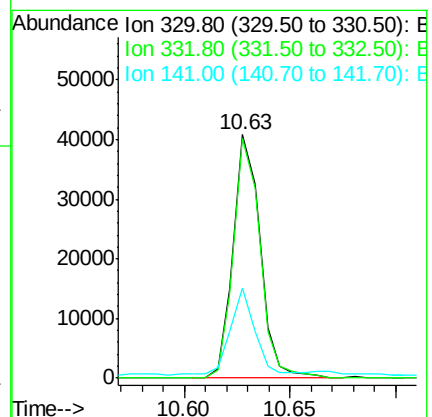
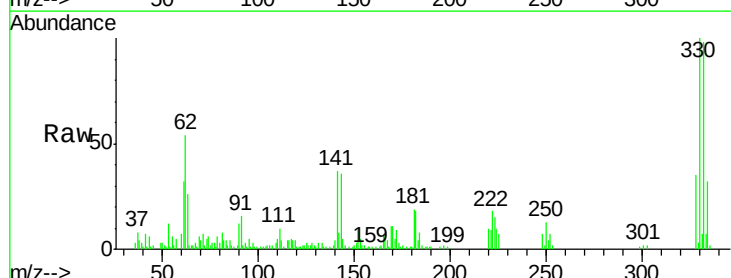
Tgt Ion:330 Resp: 36099

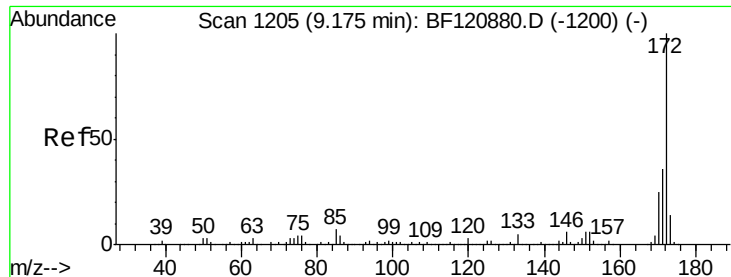
Ion Ratio Lower Upper

330 100

332 97.1 76.1 114.1

141 32.2 24.1 36.1

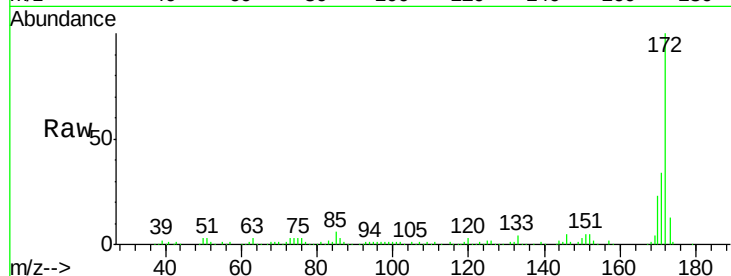




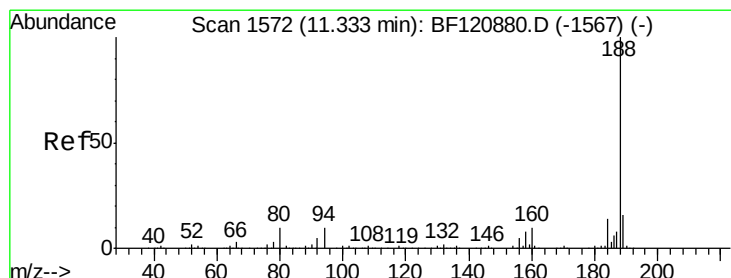
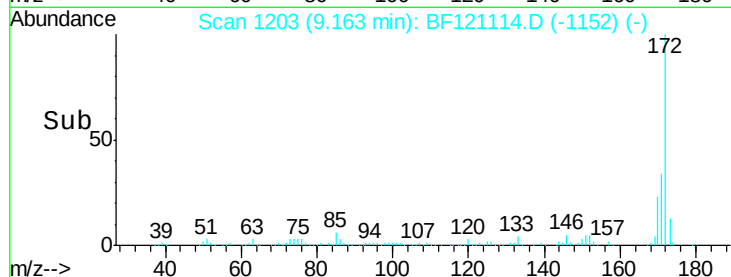
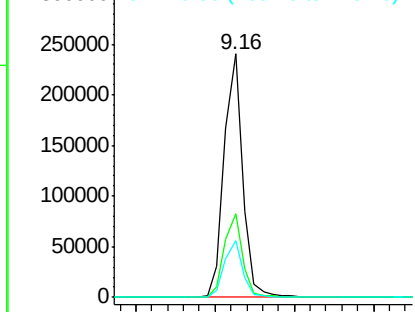
#45
2-Fluorobiphenyl
Concen: 10.775 ng
RT: 9.16 min Scan# 1203
Delta R.T. -0.00 min
Lab File: BF121114.D
Acq: 29 Jul 2020 21:32

Instrument :
BNA_F
ClientSampleId :
20

Tot Ion:172 Resp: 194995
Ion Ratio Lower Upper
172 100
171 34.5 29.0 43.4
170 23.1 19.6 29.4

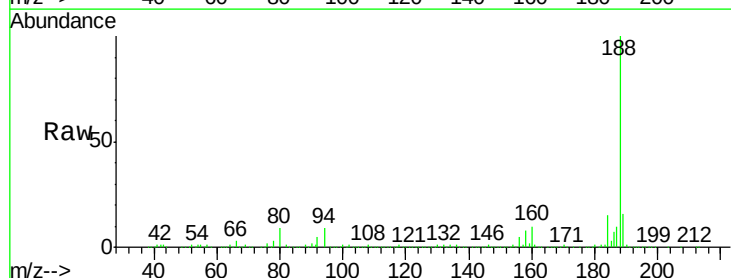


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

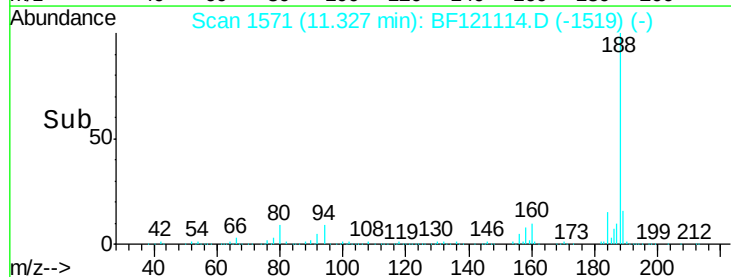
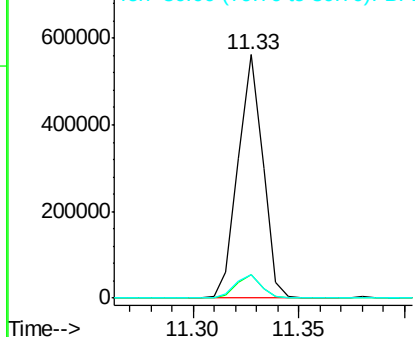


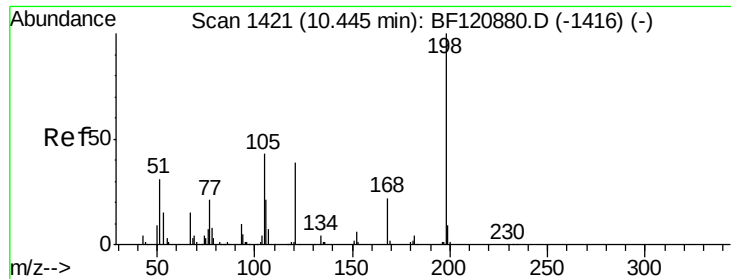
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.33 min Scan# 1571
Delta R.T. 0.01 min
Lab File: BF121114.D
Acq: 29 Jul 2020 21:32

Tgt Ion:188 Resp: 458286
Ion Ratio Lower Upper
188 100
94 9.4 8.0 12.0
80 9.4 8.3 12.5



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





#65

4,6-Dinitro-2-methylphenol

Concen: 3.887 ng

RT: 10.65 min Scan# 1456

Delta R.T. 0.21 min

Lab File: BF121114.D

Acq: 29 Jul 2020 21:32

Instrument :

BNA_F

ClientSampled :

20

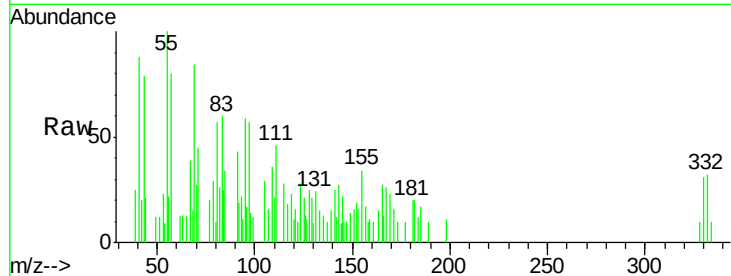
Tot Ion:198 Resp: 128

Ion Ratio Lower Upper

198 100

51 105.5 23.4 63.4#

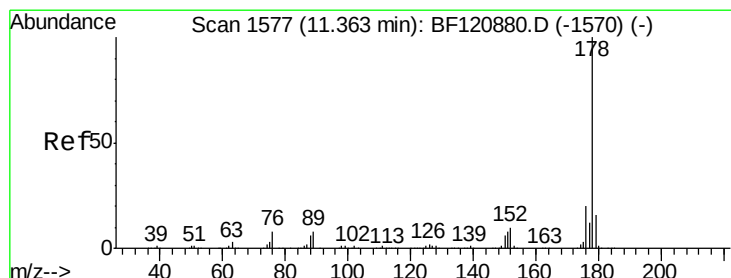
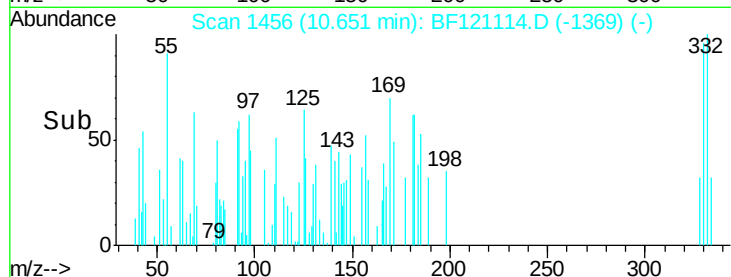
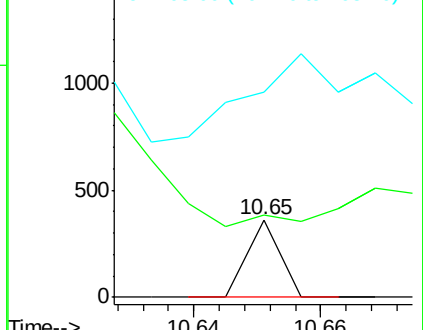
105 264.2 23.7 63.7#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF1

Ion 105.00 (104.70 to 105.70): E



#71

Phenanthrene

Concen: 10.549 ng

RT: 11.35 min Scan# 1575

Delta R.T. -0.00 min

Lab File: BF121114.D

Acq: 29 Jul 2020 21:32

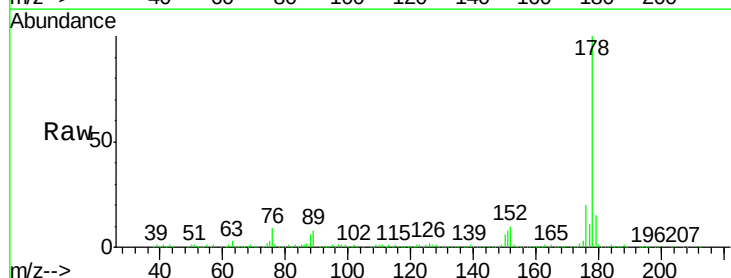
Tgt Ion:178 Resp: 248642

Ion Ratio Lower Upper

178 100

176 19.7 16.2 24.2

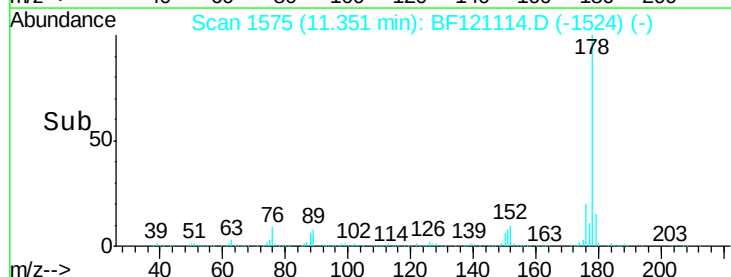
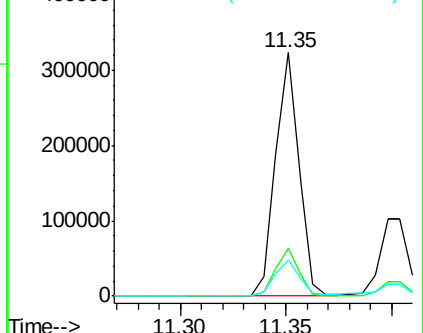
179 15.0 12.6 19.0

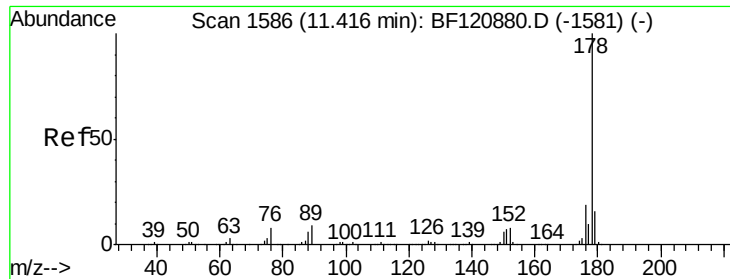


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Anthracene

Concen: 3.872 ng

RT: 11.40 min Scan# 1583

Delta R.T. -0.01 min

Lab File: BF121114.D

Acq: 29 Jul 2020 21:32

Instrument :

BNA_F

ClientSampleId :

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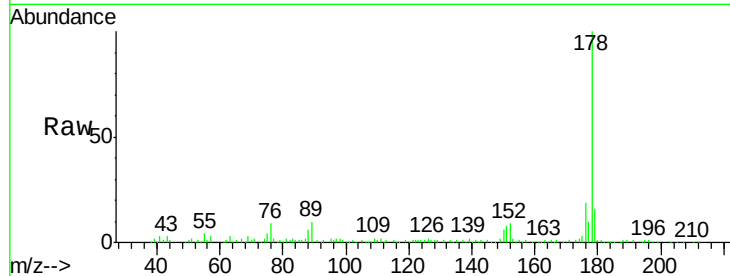
Tot Ion:178 Resp: 91639

Ion Ratio Lower Upper

178 100

176 18.7 15.8 23.8

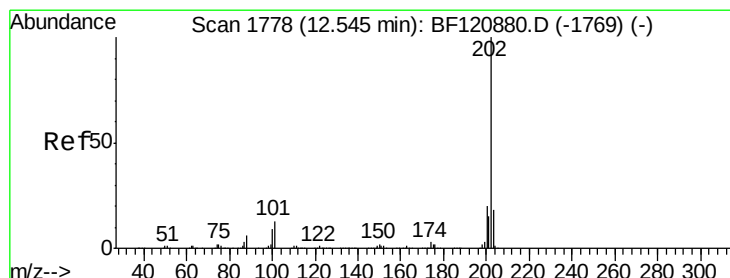
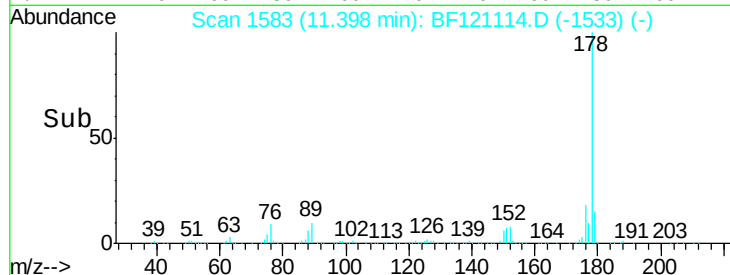
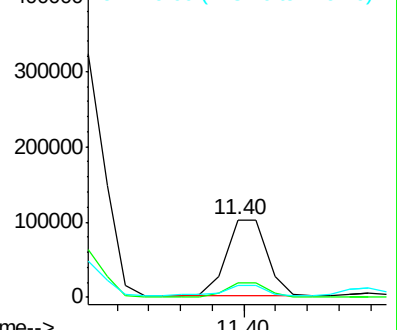
179 15.8 12.6 19.0



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#75

Fluoranthene

Concen: 16.389 ng

RT: 12.54 min Scan# 1777

Delta R.T. -0.00 min

Lab File: BF121114.D

Acq: 29 Jul 2020 21:32

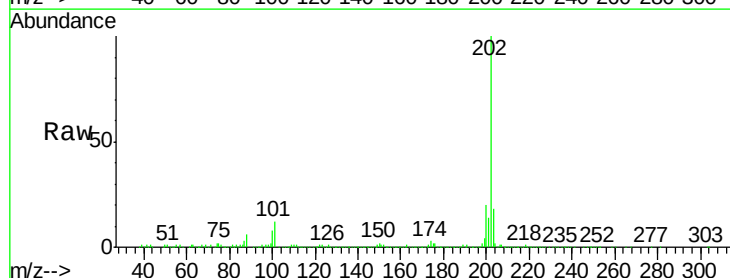
Tgt Ion:202 Resp: 428156

Ion Ratio Lower Upper

202 100

101 11.7 0.0 30.5

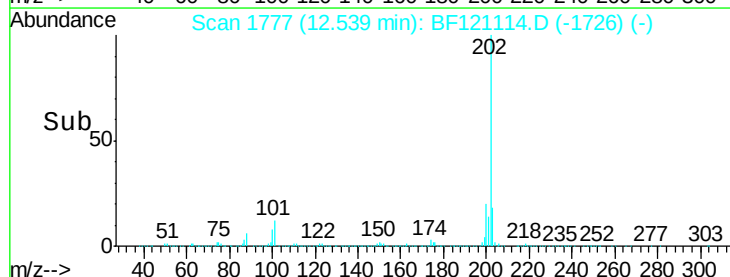
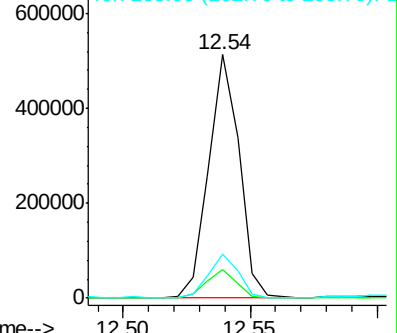
203 17.9 0.0 37.7

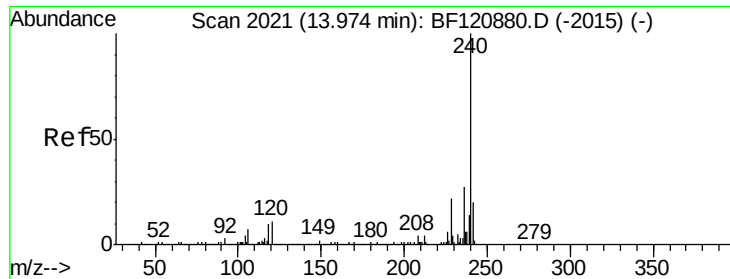


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

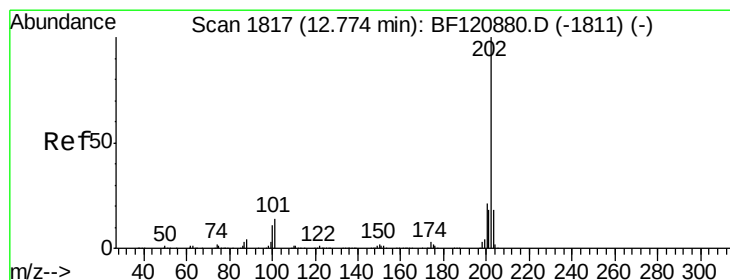
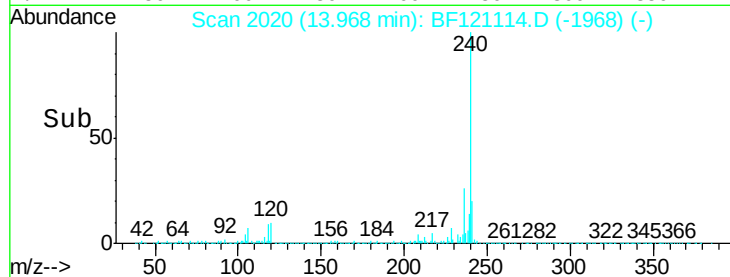
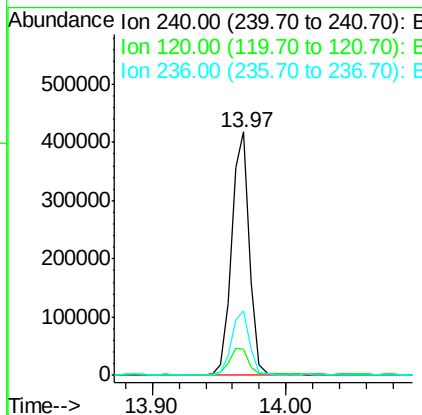
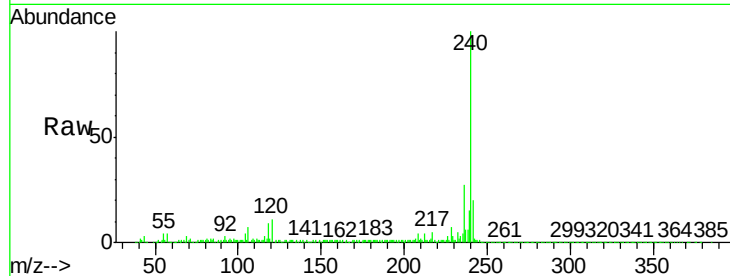




#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.97 min Scan# 2020
Delta R.T. 0.01 min
Lab File: BF121114.D
Acq: 29 Jul 2020 21:32

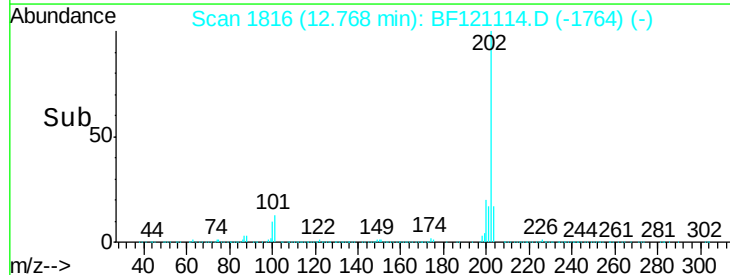
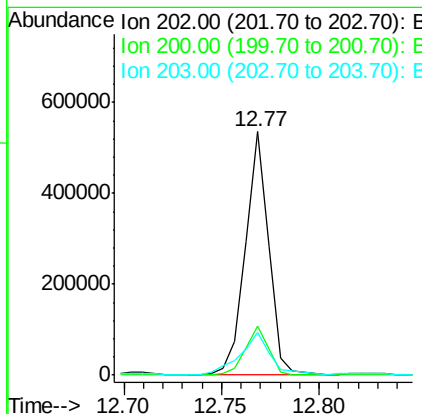
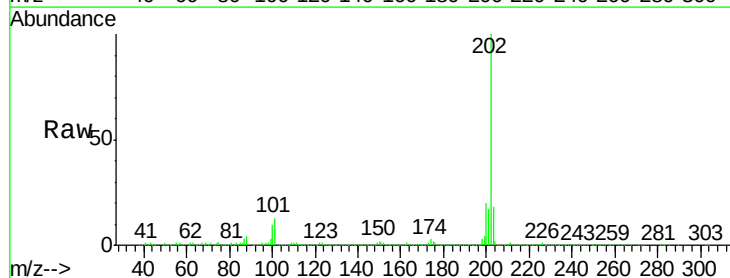
Instrument :
BNA_F
ClientSampleId :
20

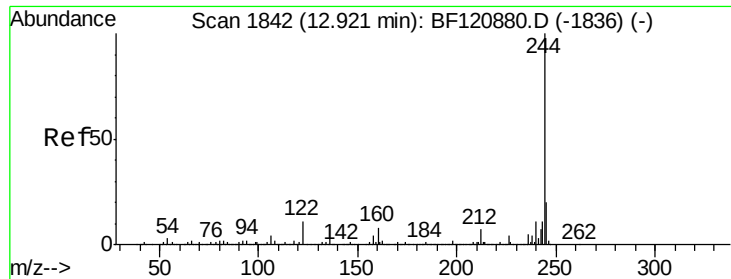
Tot Ion	Ratio	Lower	Upper
240	100		
120	10.6	9.3	13.9
236	26.7	21.1	31.7



#78
Pyrene
Concen: 16.223 ng
RT: 12.77 min Scan# 1816
Delta R.T. 0.01 min
Lab File: BF121114.D
Acq: 29 Jul 2020 21:32

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.1	17.0	25.6
203	17.7	14.6	21.8





#79

Terphenyl-d14

Concen: 10.109 ng

RT: 12.91 min Scan# 1840

Delta R.T. -0.00 min

Lab File: BF121114.D

Acq: 29 Jul 2020 21:32

Instrument :

BNA_F

ClientSampleId :

20

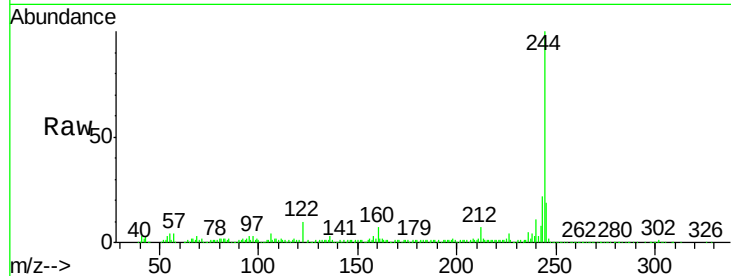
Tot Ion:244 Resp: 179285

Ion Ratio Lower Upper

244 100

212 6.8 5.7 8.5

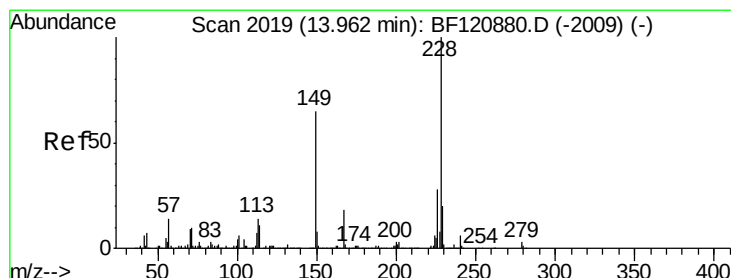
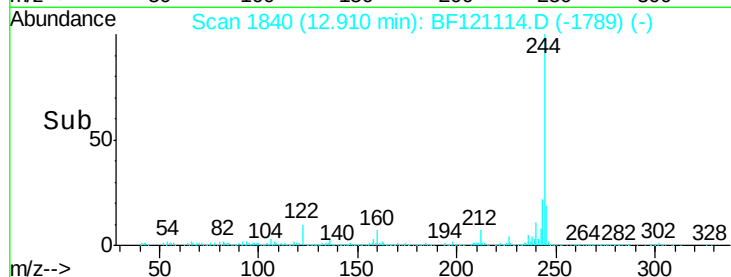
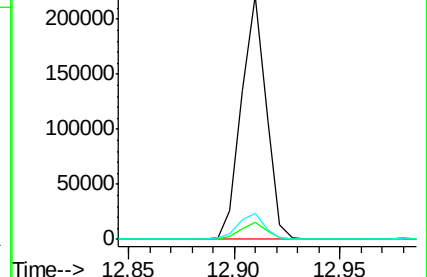
122 10.5 8.3 12.5



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#81

Benzo(a)anthracene

Concen: 8.483 ng

RT: 13.96 min Scan# 2018

Delta R.T. 0.01 min

Lab File: BF121114.D

Acq: 29 Jul 2020 21:32

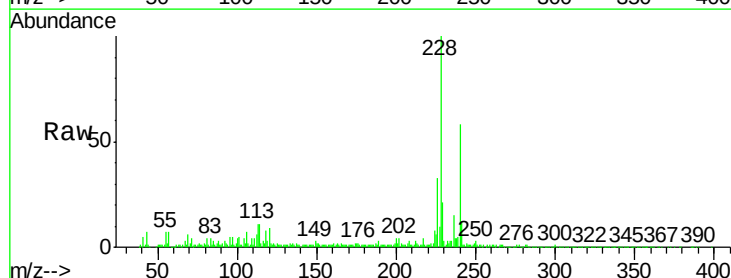
Tgt Ion:228 Resp: 198033

Ion Ratio Lower Upper

228 100

226 32.7 22.6 34.0

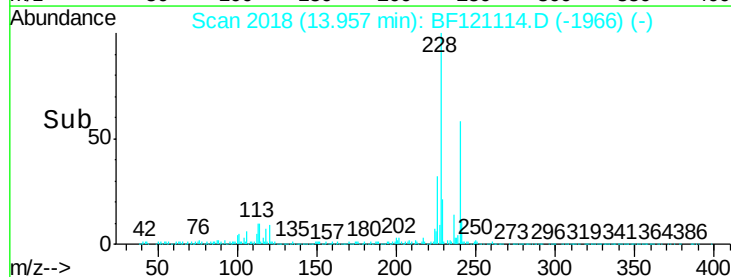
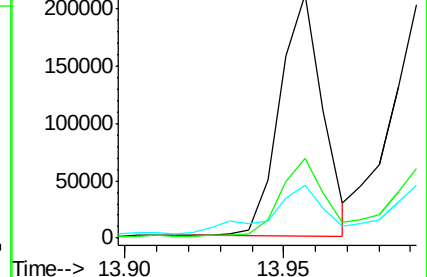
229 21.5 16.1 24.1

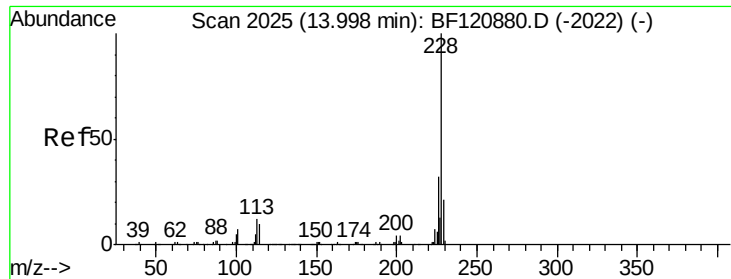


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

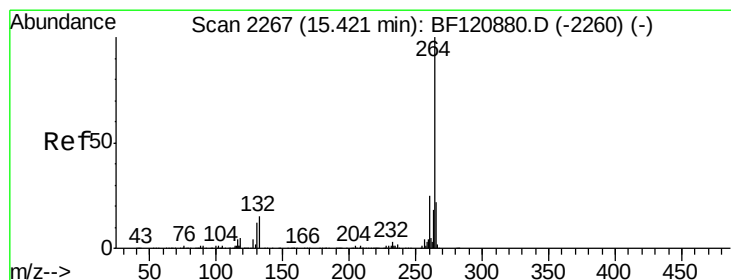
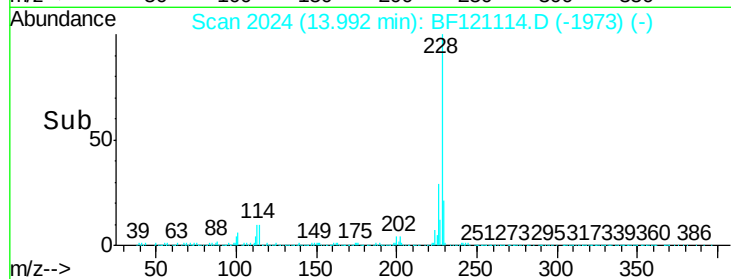
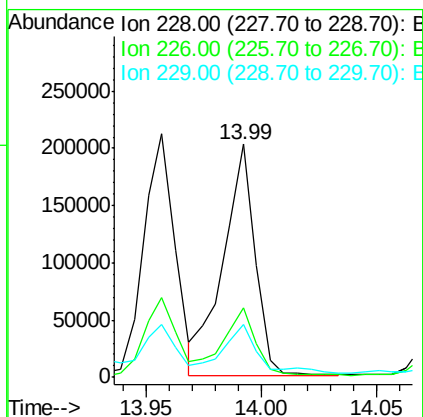
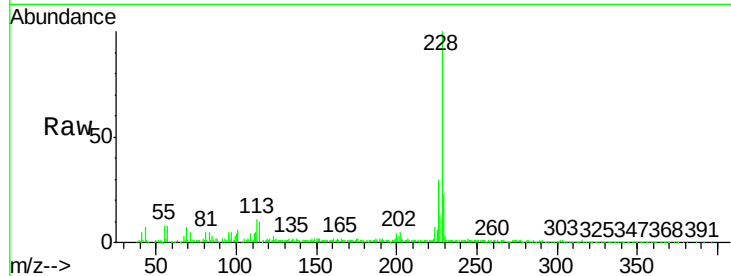




#83
Chrysene
Concen: 7.911 ng
RT: 13.99 min Scan# 2024
Delta R.T. -0.00 min
Lab File: BF121114.D
Acq: 29 Jul 2020 21:32

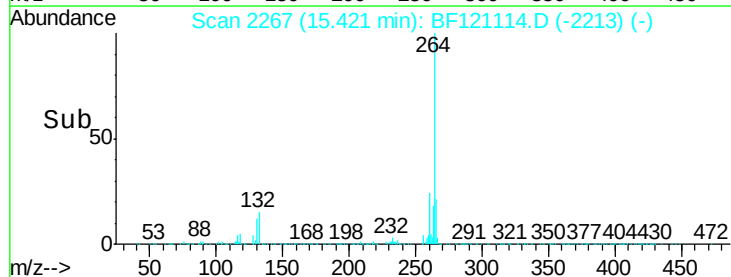
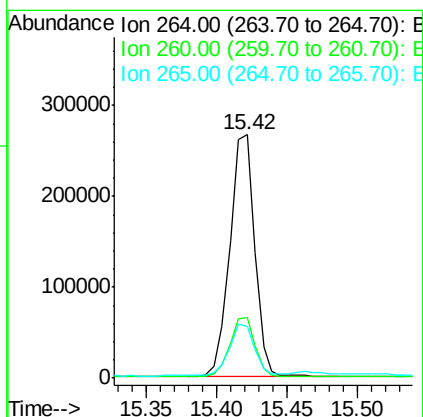
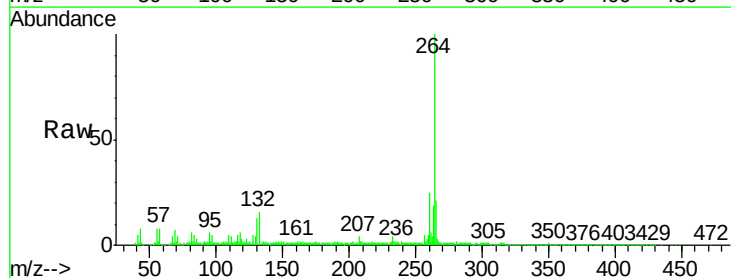
Instrument :
BNA_F
ClientSampleId :
20

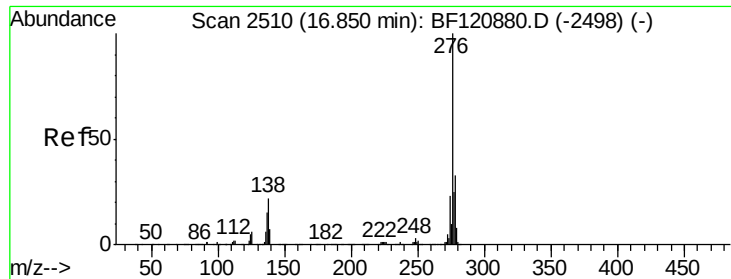
Tot Ion:228	Resp:	194089
Ion	Ratio	Lower Upper
228	100	
226	29.8	25.4 38.0
229	22.7	16.2 24.4



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.42 min Scan# 2267
Delta R.T. 0.02 min
Lab File: BF121114.D
Acq: 29 Jul 2020 21:32

Tgt Ion:264	Resp:	328305
Ion	Ratio	Lower Upper
264	100	
260	24.8	19.9 29.9
265	21.3	17.8 26.8





#87

Indeno(1,2,3-cd)pyrene

Concen: 3.121 ng

RT: 16.84 min Scan# 2509

Delta R.T. 0.01 min

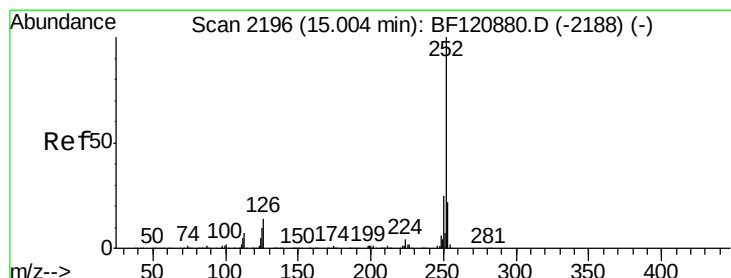
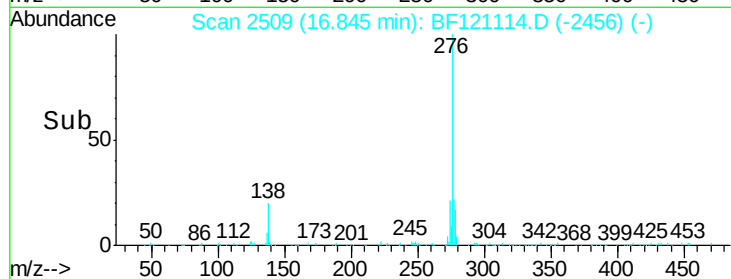
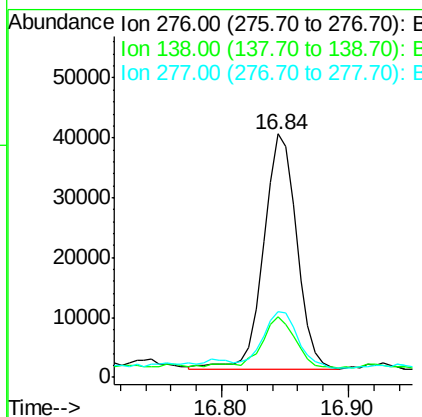
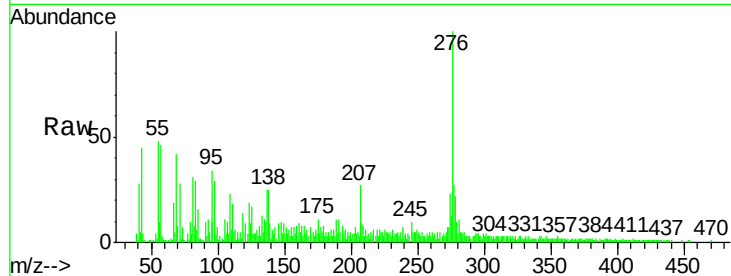
Lab File: BF121114.D

Acq: 29 Jul 2020 21:32

Instrument :
BNA_F
ClientSampleId :
20

Tot Ion:276 Resp: 71257

Ion	Ratio	Lower	Upper
276	100		
138	21.6	19.3	28.9
277	25.0	20.1	30.1



#88

Benzo(b)fluoranthene

Concen: 12.965 ng

RT: 15.00 min Scan# 2195

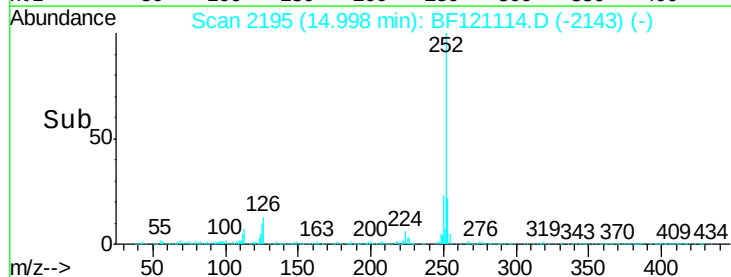
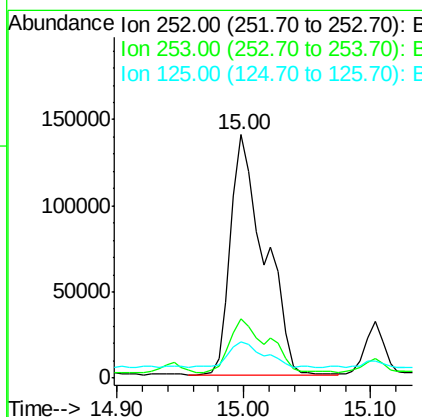
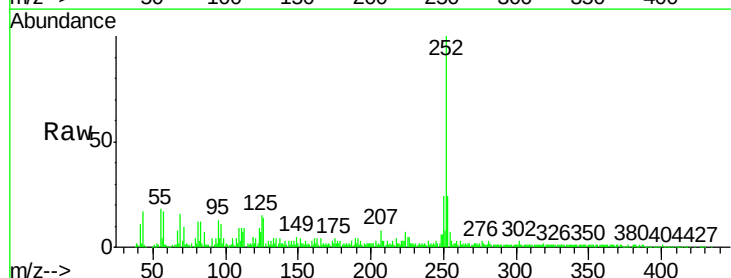
Delta R.T. 0.01 min

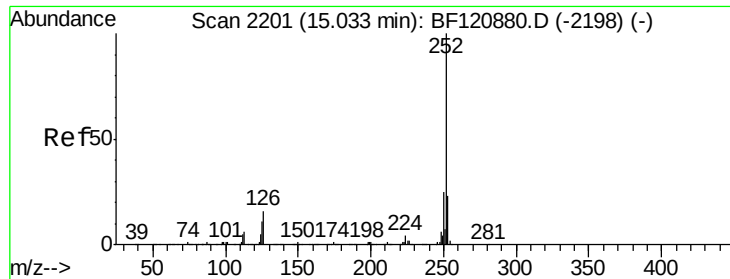
Lab File: BF121114.D

Acq: 29 Jul 2020 21:32

Tgt Ion:252 Resp: 257286

Ion	Ratio	Lower	Upper
252	100		
253	24.3	17.9	26.9
125	14.9	8.1	12.1

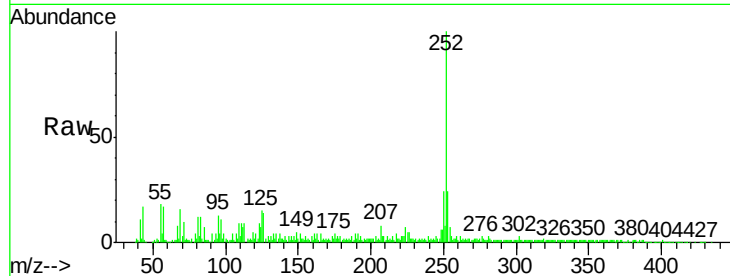




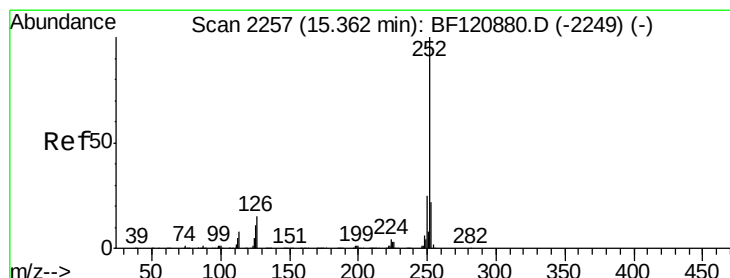
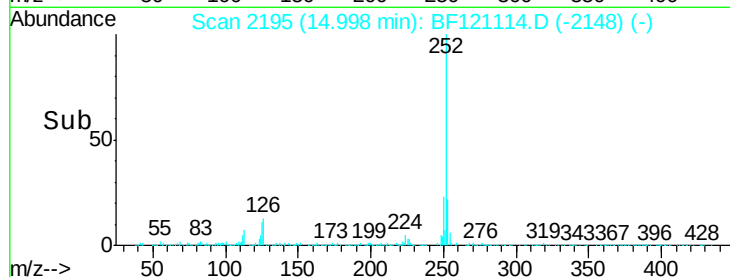
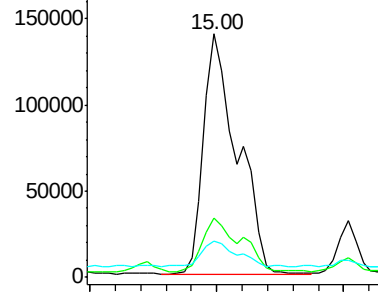
#89
Benzo(k)fluoranthene
Concen: 14.216 ng
RT: 15.00 min Scan# 2195
Delta R.T. -0.02 min
Lab File: BF121114.D
Acq: 29 Jul 2020 21:32

Instrument :
BNA_F
ClientSampleId :
20

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.3	18.1	27.1
125	14.9	8.0	12.0

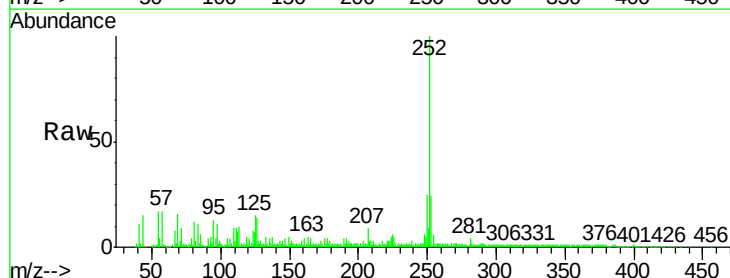


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

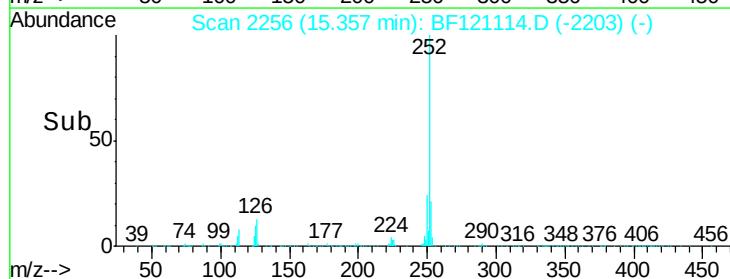
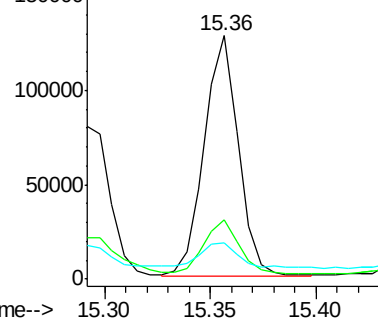


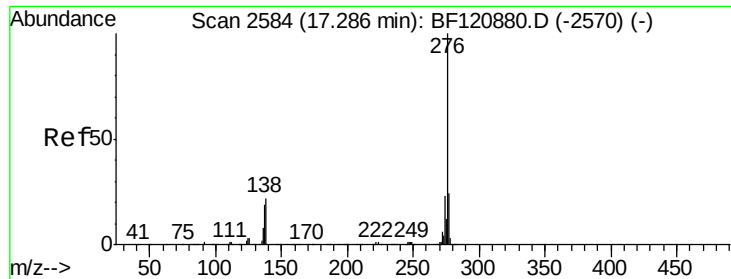
#90
Benzo(a)pyrene
Concen: 7.811 ng
RT: 15.36 min Scan# 2256
Delta R.T. 0.01 min
Lab File: BF121114.D
Acq: 29 Jul 2020 21:32

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.1	18.0	27.0
125	14.7	9.5	14.3



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

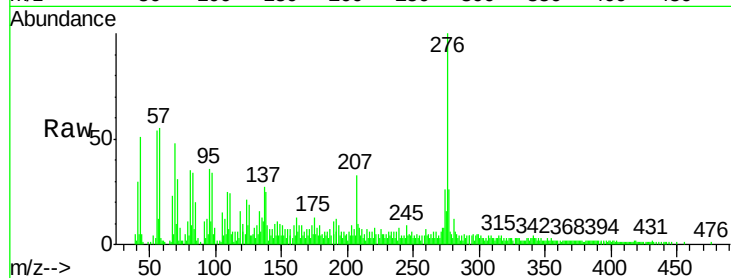




#92
 Benzo(a,h,i)perylene
 Concen: 3.681 ng
 RT: 17.28 min Scan# 2583
 Delta R.T. 0.02 min
 Lab File: BF121114.D
 Acq: 29 Jul 2020 21:32

Instrument :
 BNA_F
 ClientSampleId :
 20

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.9	19.4	29.0
138	24.9	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

