

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091520\
 Data File : BF121586.D
 Acq On : 15 Sep 2020 19:33
 Operator : JU/CG
 Sample : L4005-03 5X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 32-34

Quant Time: Sep 16 01:04:30 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 10 16:47:54 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.83	152	222220	20.00	ng	0.00
21) Naphthalene-d8	8.12	136	802867	20.00	ng	0.00
39) Acenaphthene-d10	9.87	164	402759	20.00	ng	0.00
64) Phenanthrene-d10	11.36	188	682469	20.00	ng	0.00
76) Chrysene-d12	13.99	240	439477	20.00	ng	0.00
86) Perylene-d12	15.45	264	432648	20.00	ng	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.45	112	225447	15.08	ng	0.00
7) Phenol-d6	6.47	99	295800	15.08	ng	0.00
23) Nitrobenzene-d5	7.39	82	186307	12.46	ng	0.00
42) 2,4,6-Tribromophenol	10.66	330	67206	13.43	ng	0.00
45) 2-Fluorobiphenyl	9.19	172	350672	13.19	ng	0.00
79) Terphenyl-d14	12.93	244	279303	12.88	ng	0.00

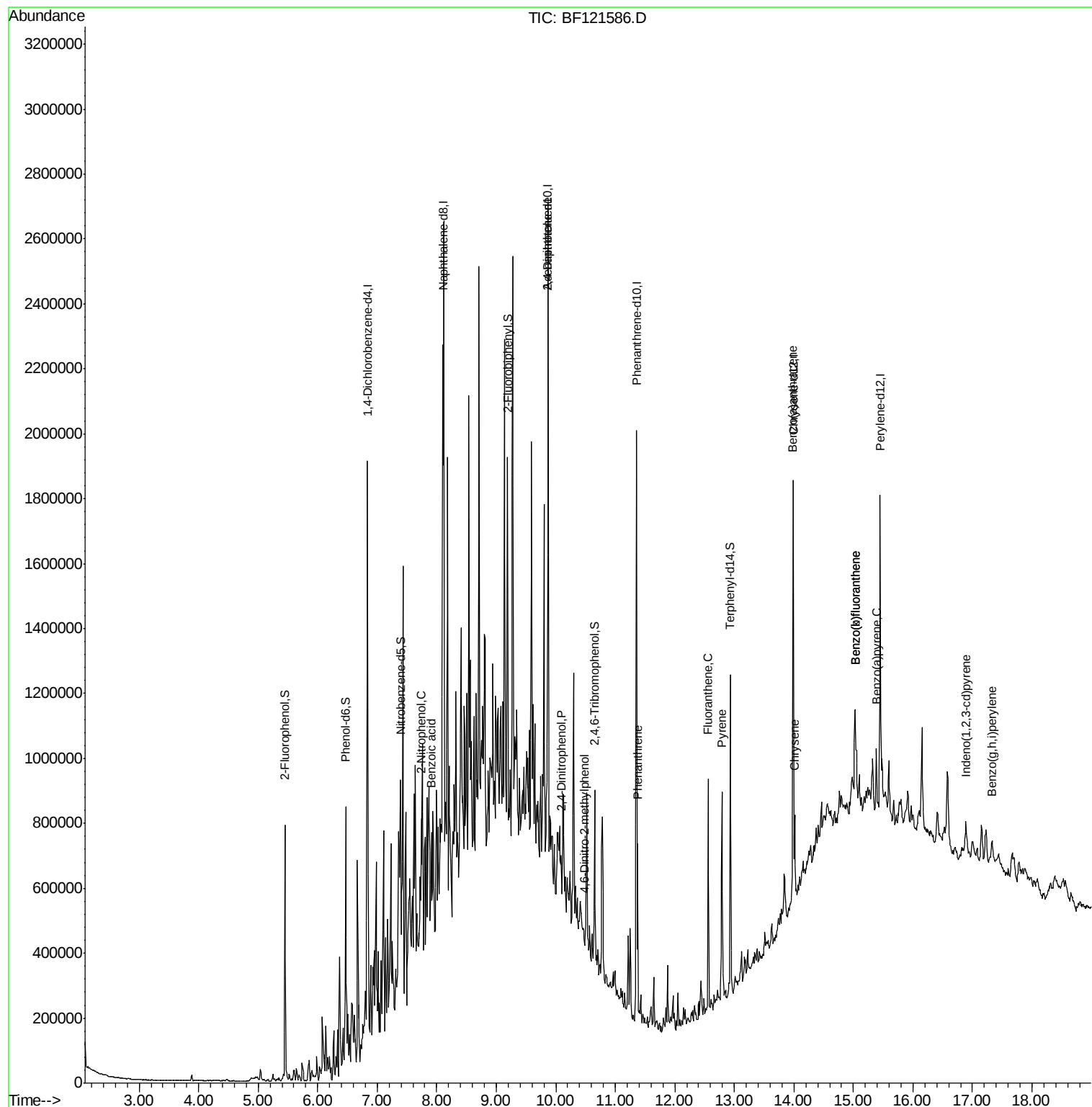
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
26) 2-Nitrophenol	7.74	139	3232	2.961	ng	# 1
32) Benzoic acid	7.91	122	5022	7.364	ng	# 20
54) 2,4-Dinitrophenol	10.09	184	116	9.076	ng	# 1
57) 2,4-Dinitrotoluene	9.87	165	58192	7.440	ng	# 25
65) 4,6-Dinitro-2-methylphenol	10.48	198	108	6.874	ng	# 1
71) Phenanthrene	11.37	178	185468	4.988	ng	98
75) Fluoranthene	12.56	202	256731	6.468	ng	98
78) Pyrene	12.79	202	235982	7.349	ng	99
81) Benzo(a)anthracene	13.98	228	104753	3.768	ng	95
83) Chrysene	14.02	228	107207	3.808	ng	96
87) Indeno(1,2,3-cd)pyrene	16.89	276	56637	2.010	ng	94
88) Benzo(b)fluoranthene	15.03	252	184376	6.375	ng	# 93
89) Benzo(k)fluoranthene	15.03	252	184376	6.961	ng	# 93
90) Benzo(a)pyrene	15.39	252	96294	3.917	ng	# 89
92) Benzo(a,h,i)perylene	17.33	276	50326	2.183	ng	# 93

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

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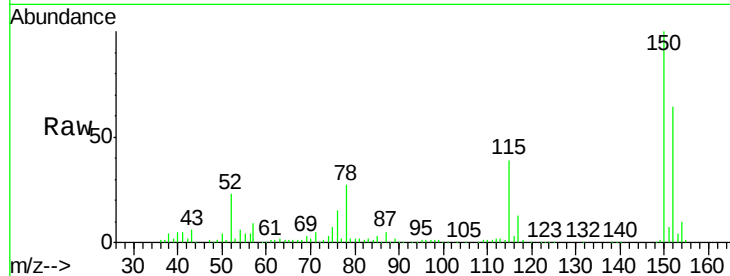


#1

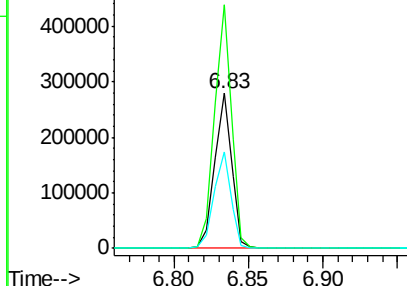
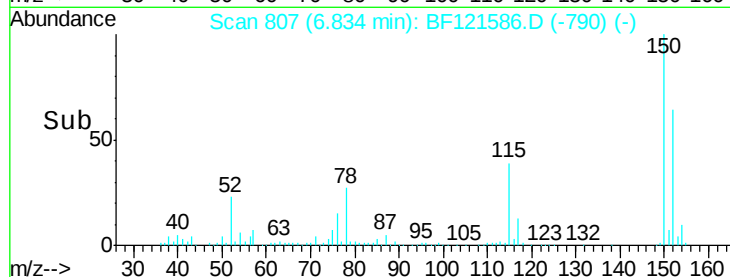
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.83 min Scan# 807
Delta R.T. -0.00 min
Lab File: BF121586.D
Acq: 15 Sep 2020 19:33

Instrument :
BNA_F
ClientSampleId :
32-34

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.0	125.8	188.6
115	61.9	47.8	71.8



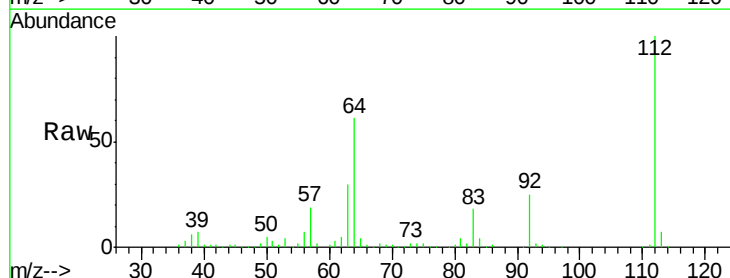
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



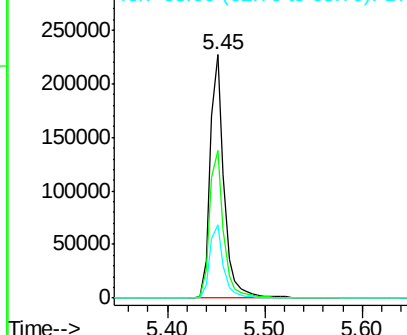
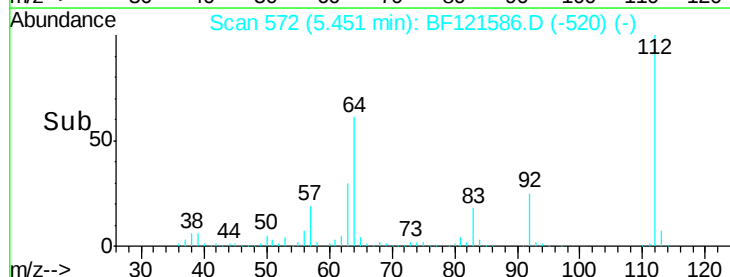
#5

2-Fluorophenol
Concen: 15.077 ng
RT: 5.45 min Scan# 572
Delta R.T. 0.01 min
Lab File: BF121586.D
Acq: 15 Sep 2020 19:33

Tgt Ion	Ratio	Lower	Upper
112	100		
64	60.8	50.3	75.5
63	30.1	25.6	38.4



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: 15.078 ng

RT: 6.47 min Scan# 745

Delta R.T. 0.01 min

Lab File: BF121586.D

Acq: 15 Sep 2020 19:33

Instrument :

BNA_F

ClientSampleId :

32-34

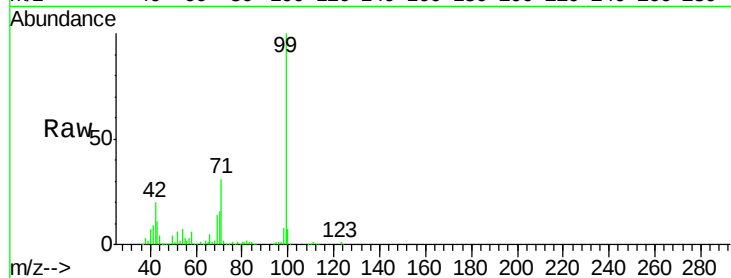
Tot Ion: 99 Resp: 295800

Ion Ratio Lower Upper

99 100

42 19.6 15.5 23.3

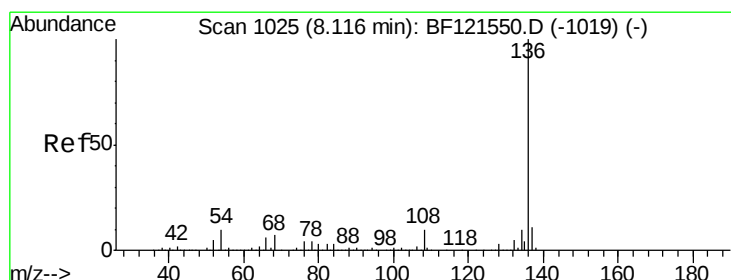
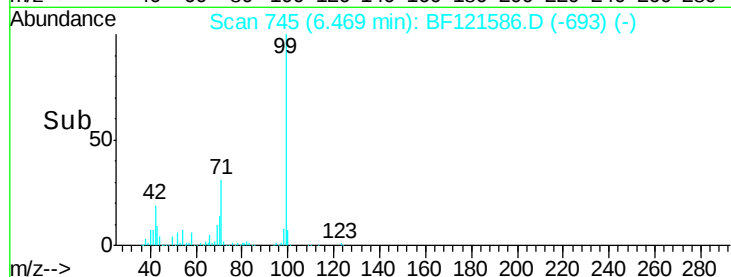
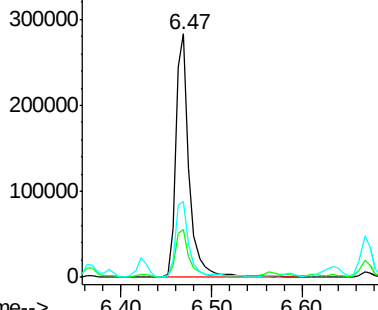
71 31.3 26.1 39.1



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: 8.12 min Scan# 1025

Delta R.T. -0.00 min

Lab File: BF121586.D

Acq: 15 Sep 2020 19:33

Tgt Ion: 136 Resp: 802867

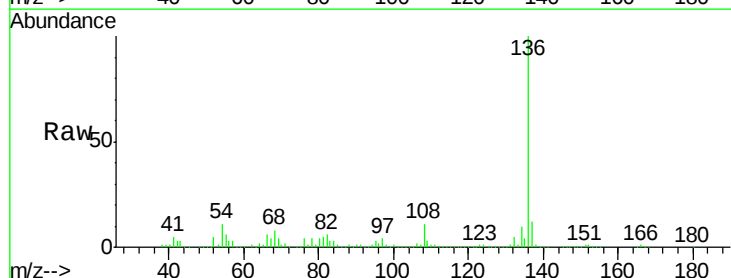
Ion Ratio Lower Upper

136 100

137 11.6 9.0 13.6

54 10.5 7.6 11.4

68 8.2 5.7 8.5

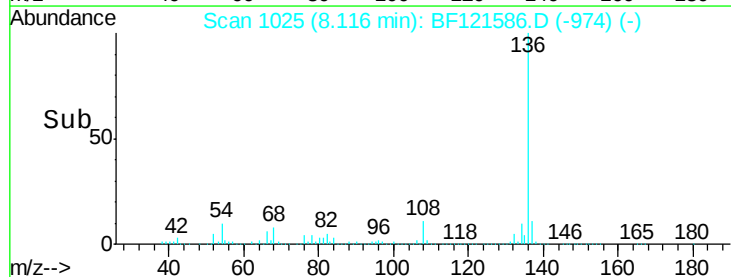
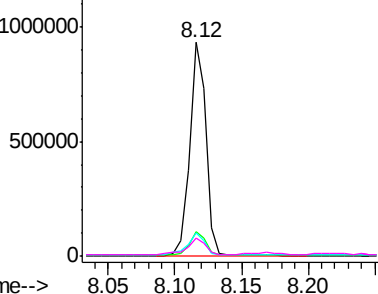


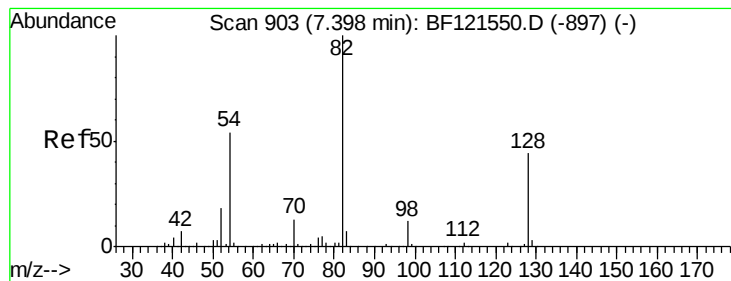
Abundance Ion 136.00 (135.70 to 136.70): E

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: 12.459 ng

RT: 7.39 min Scan# 902

Delta R.T. -0.01 min

Lab File: BF121586.D

Acq: 15 Sep 2020 19:33

Instrument :

BNA_F

ClientSampleId :

32-34

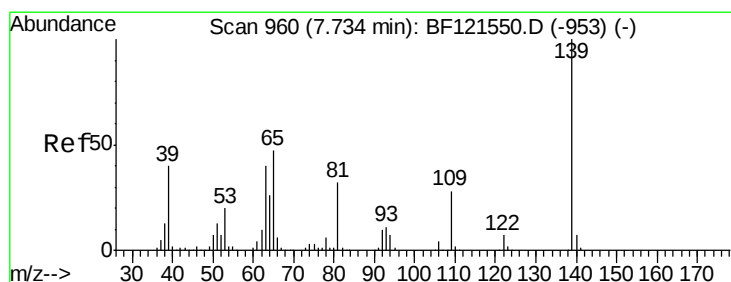
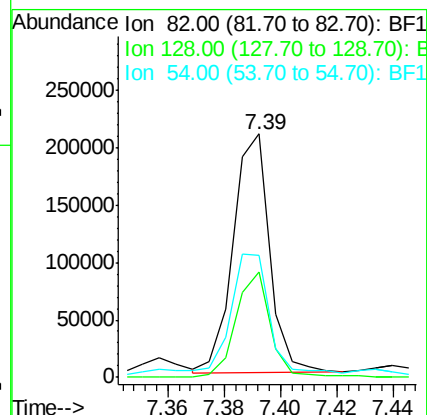
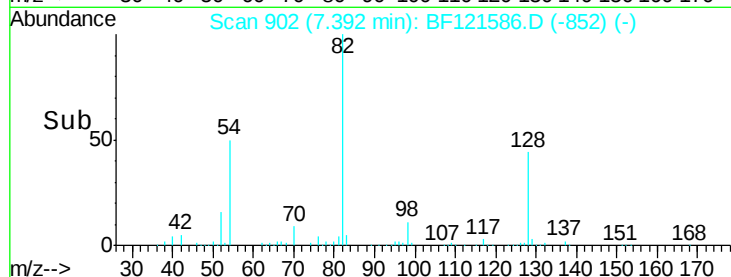
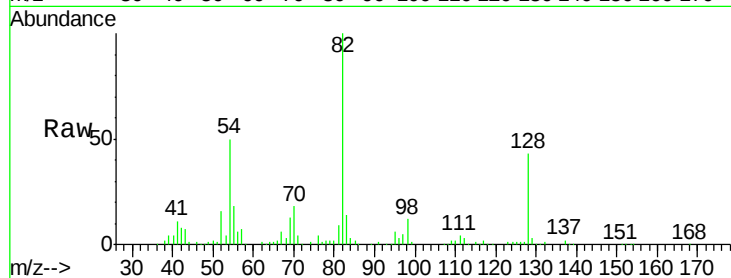
Tot Ion: 82 Resp: 186307

Ion Ratio Lower Upper

82 100

128 43.0 35.1 52.7

54 50.3 43.0 64.6



#26

2-Nitrophenol

Concen: 2.961 ng

RT: 7.74 min Scan# 961

Delta R.T. 0.01 min

Lab File: BF121586.D

Acq: 15 Sep 2020 19:33

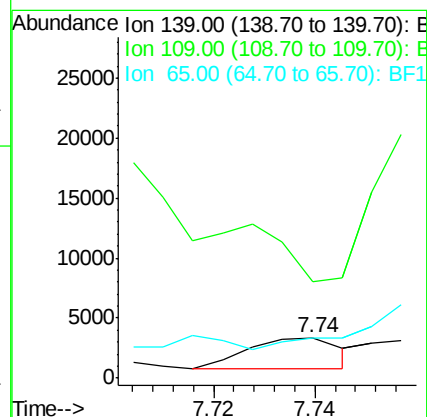
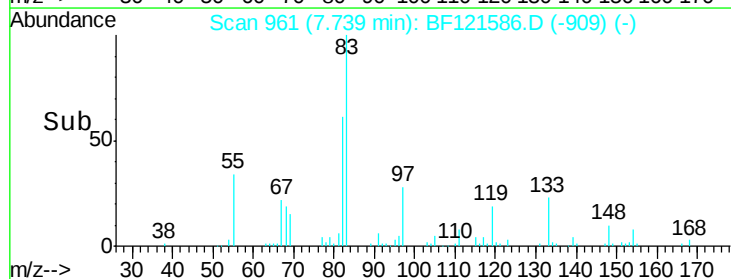
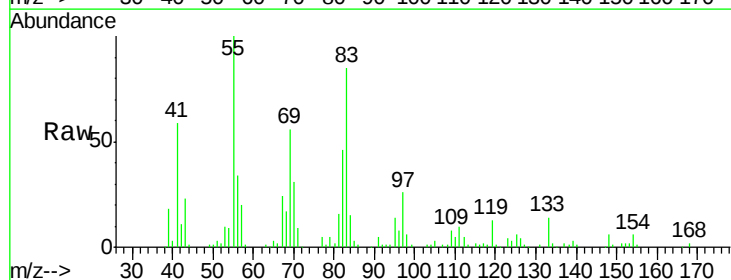
Tgt Ion: 139 Resp: 3232

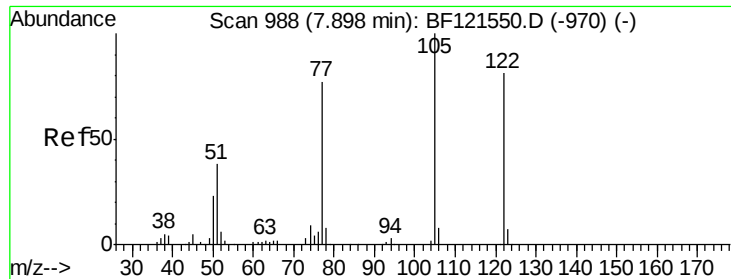
Ion Ratio Lower Upper

139 100

109 238.2 22.4 33.6#

65 99.6 37.6 56.4#





#32

Benzoic acid

Concen: 7.364 ng

RT: 7.91 min Scan# 990

Delta R.T. 0.01 min

Lab File: BF121586.D

Acq: 15 Sep 2020 19:33

Instrument :

BNA_F

ClientSampled :

32-34

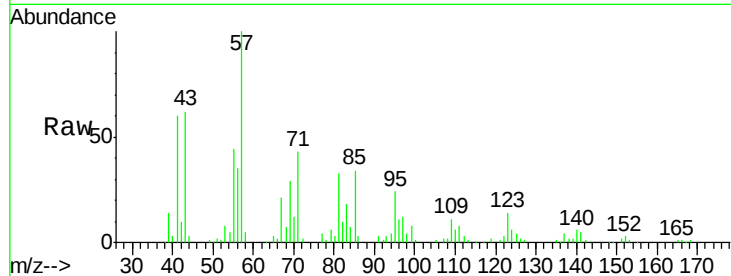
Tot Ion:122 Resp: 5022

Ion Ratio Lower Upper

122 100

105 27.9 100.5 140.5#

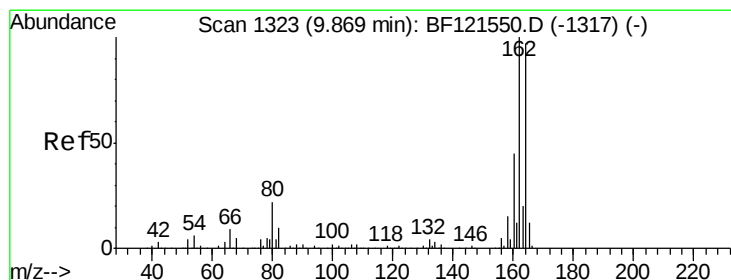
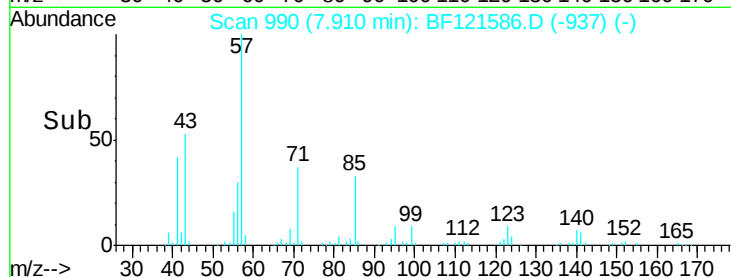
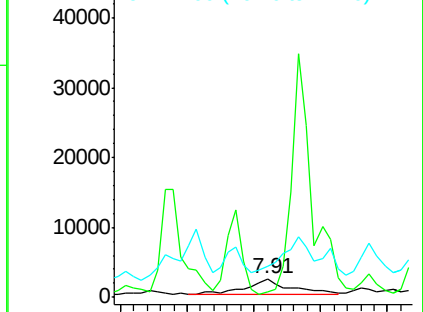
77 165.7 72.6 112.6#



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF1



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.87 min Scan# 1323

Delta R.T. -0.00 min

Lab File: BF121586.D

Acq: 15 Sep 2020 19:33

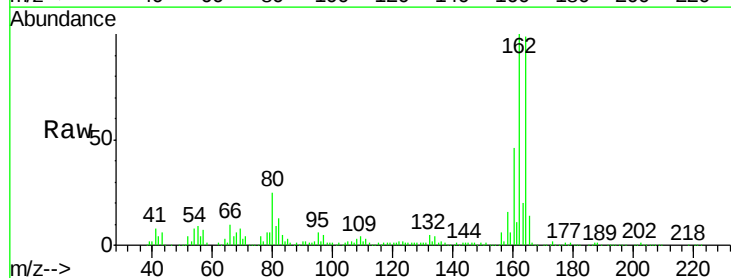
Tgt Ion:164 Resp: 402759

Ion Ratio Lower Upper

164 100

162 100.6 82.3 123.5

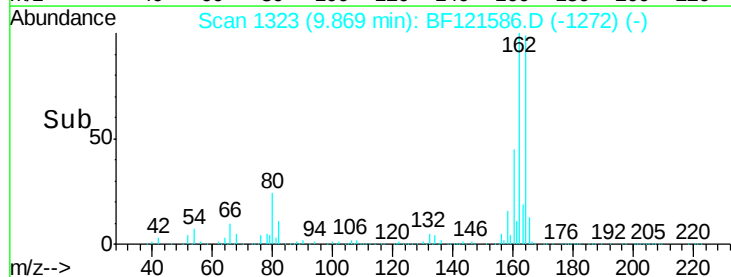
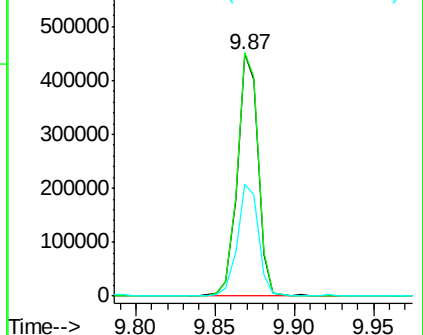
160 45.9 37.0 55.4

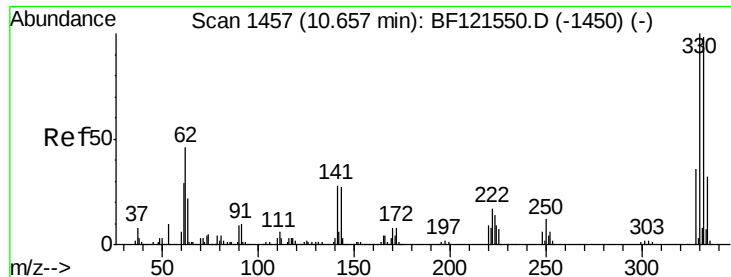


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#42

2,4,6-Tribromophenol

Concen: 13.426 ng

RT: 10.66 min Scan# 1457

Delta R.T. -0.00 min

Lab File: BF121586.D

Acq: 15 Sep 2020 19:33

Instrument :

BNA_F

ClientSampleId :

32-34

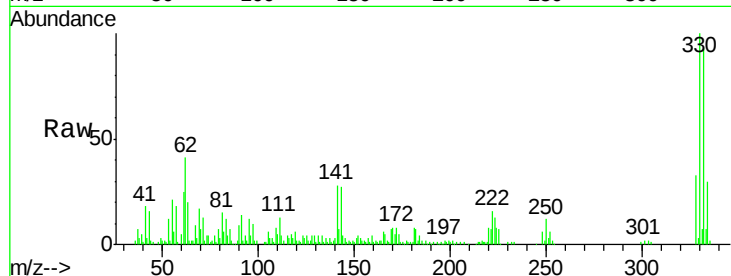
Tot Ion:330 Resp: 67206

Ion Ratio Lower Upper

330 100

332 95.2 77.1 115.7

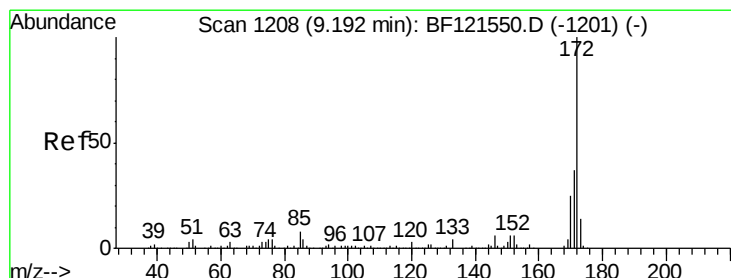
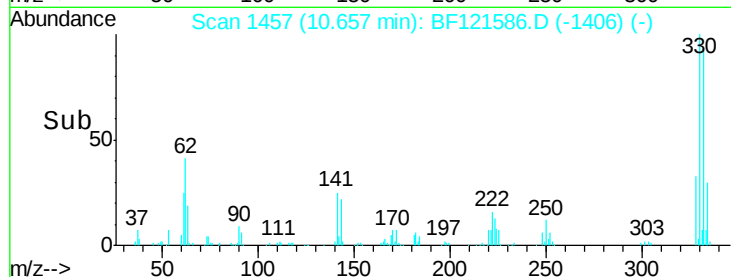
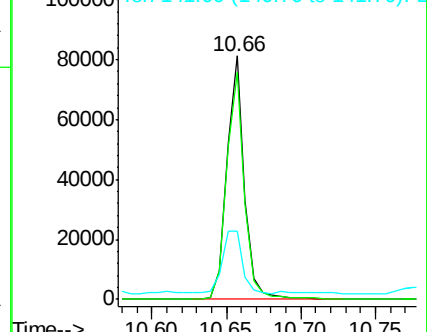
141 29.1 23.6 35.4



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: 13.187 ng

RT: 9.19 min Scan# 1208

Delta R.T. -0.00 min

Lab File: BF121586.D

Acq: 15 Sep 2020 19:33

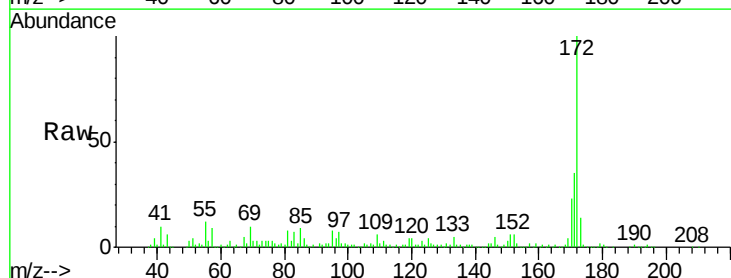
Tgt Ion:172 Resp: 350672

Ion Ratio Lower Upper

172 100

171 35.2 29.8 44.6

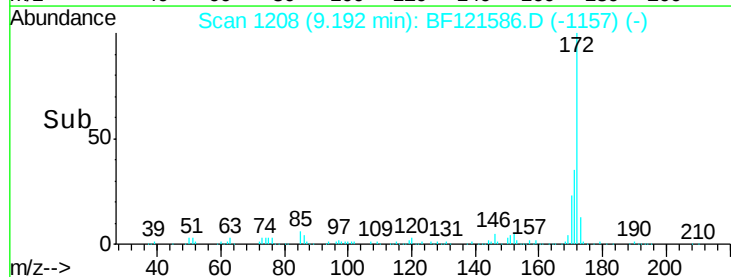
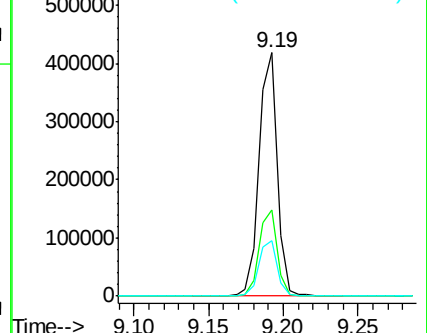
170 23.0 19.8 29.8

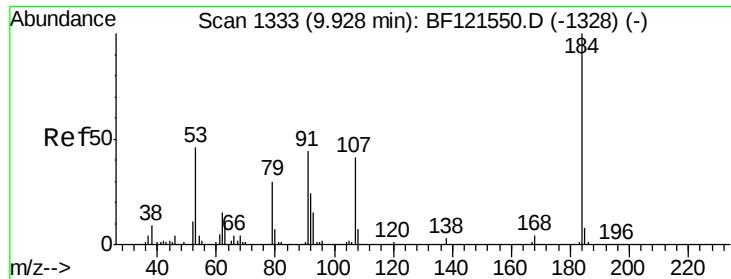


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

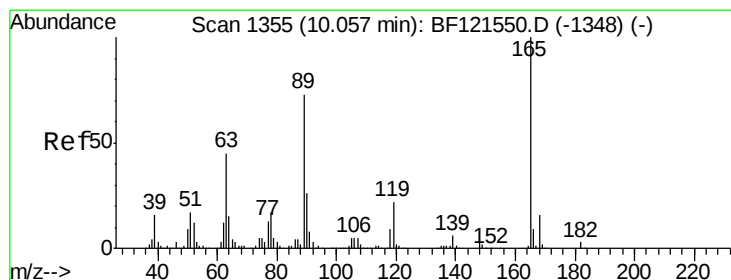
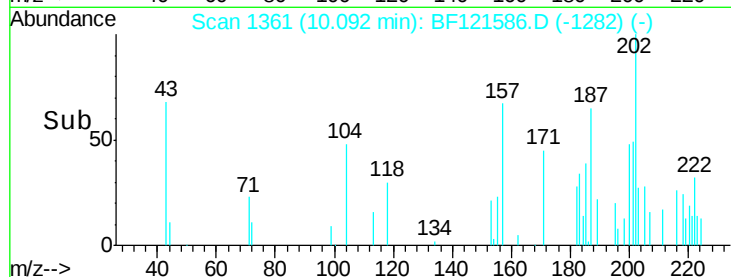
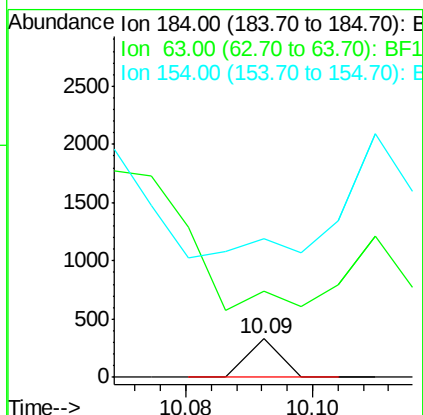
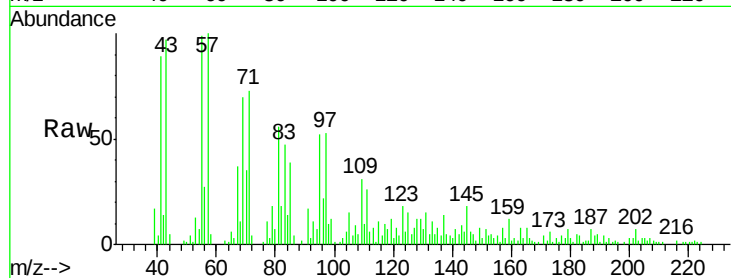




#54
 2,4-Dinitrophenol
 Concen: 9.076 ng
 RT: 10.09 min Scan# 1361
 Delta R.T. 0.17 min
 Lab File: BF121586.D
 Acq: 15 Sep 2020 19:33

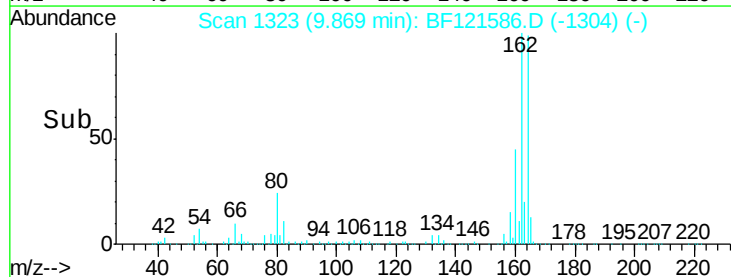
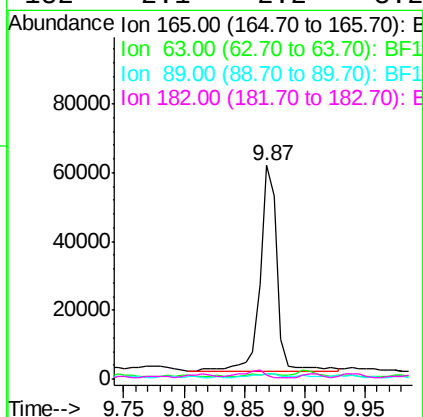
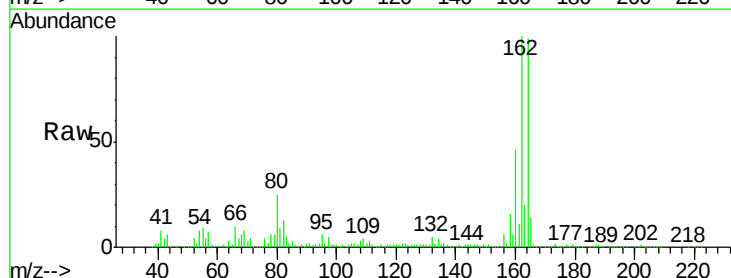
Instrument :
 BNA_F
 ClientSampled :
 32-34

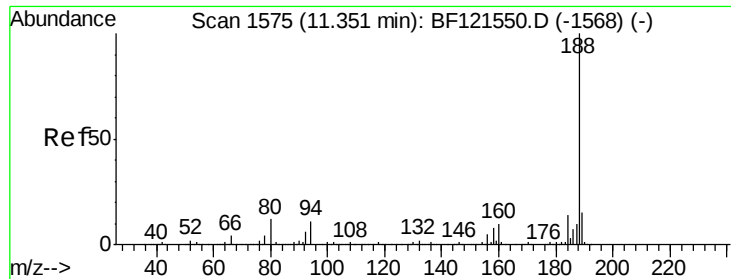
Tot Ion:184 Resp: 116
 Ion Ratio Lower Upper
 184 100
 63 223.4 47.7 71.5#
 154 360.5 47.2 70.8#



#57
 2,4-Dinitrotoluene
 Concen: 7.440 ng
 RT: 9.87 min Scan# 1323
 Delta R.T. -0.19 min
 Lab File: BF121586.D
 Acq: 15 Sep 2020 19:33

Tgt Ion:165 Resp: 58192
 Ion Ratio Lower Upper
 165 100
 63 2.7 36.2 54.4#
 89 2.4 58.2 87.4#
 182 2.1 2.2 3.2#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.36 min Scan# 1576

Delta R.T. 0.01 min

Lab File: BF121586.D

Acq: 15 Sep 2020 19:33

Instrument :

BNA_F

ClientSampleId :

32-34

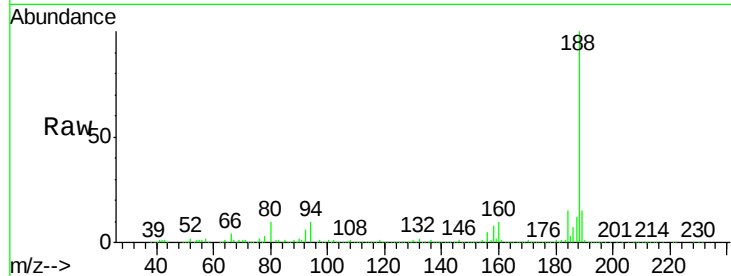
Tot Ion:188 Resp: 682469

Ion Ratio Lower Upper

188 100

94 9.9 8.7 13.1

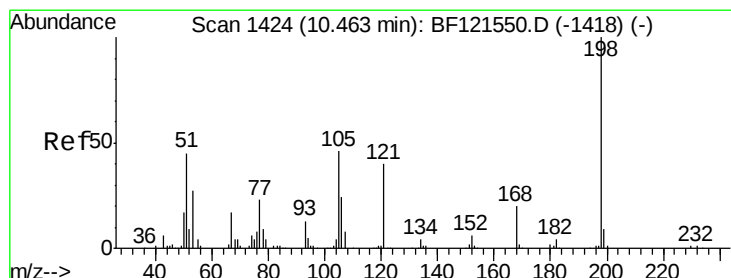
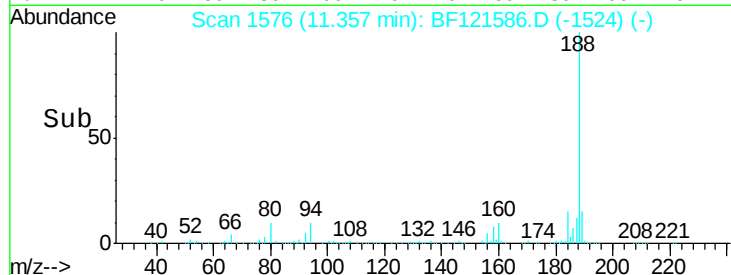
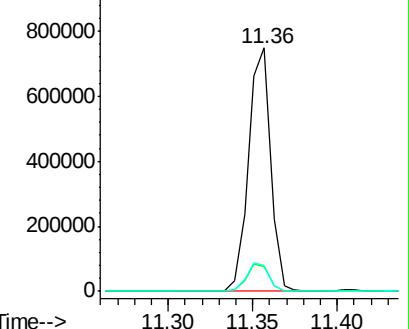
80 10.5 9.3 13.9



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: 6.874 ng

RT: 10.48 min Scan# 1427

Delta R.T. 0.02 min

Lab File: BF121586.D

Acq: 15 Sep 2020 19:33

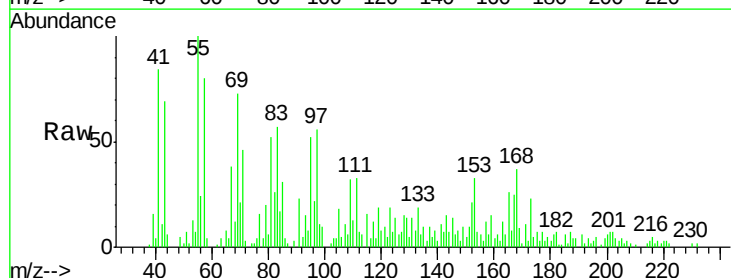
Tgt Ion:198 Resp: 108

Ion Ratio Lower Upper

198 100

51 483.7 31.1 71.1#

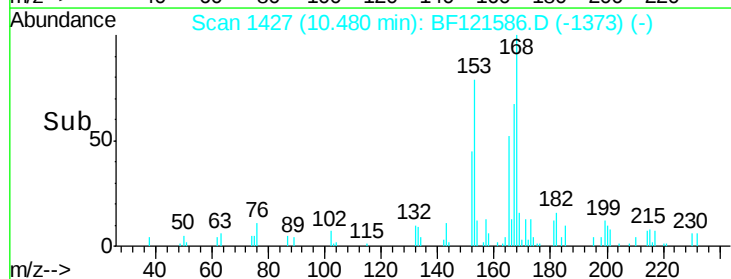
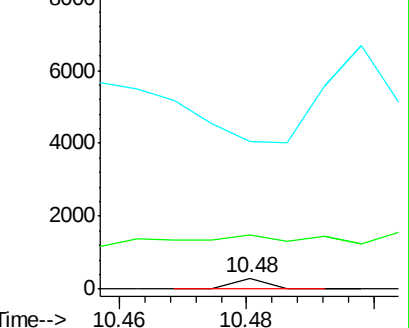
105 1322.5 26.6 66.6#

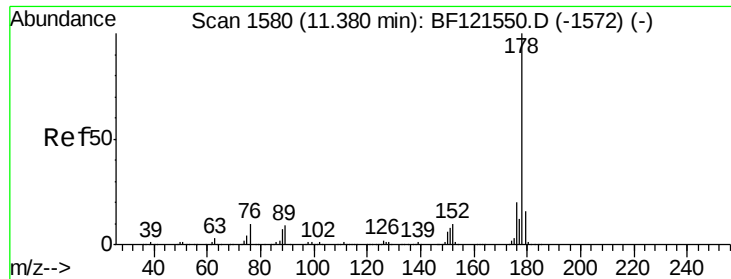


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF1

Ion 105.00 (104.70 to 105.70): E





#71

Phenanthrene

Concen: 4.988 ng

RT: 11.37 min Scan# 1579

Delta R.T. -0.01 min

Lab File: BF121586.D

Acq: 15 Sep 2020 19:33

Instrument :

BNA_F

ClientSampleId :

32-34

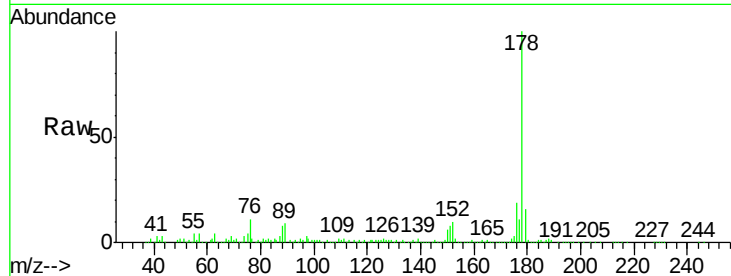
Tot Ion:178 Resp: 185468

Ion Ratio Lower Upper

178 100

176 18.8 16.2 24.4

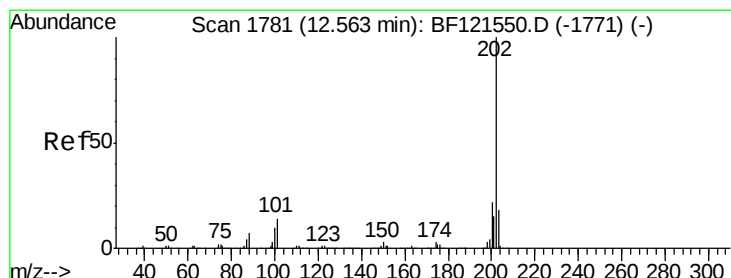
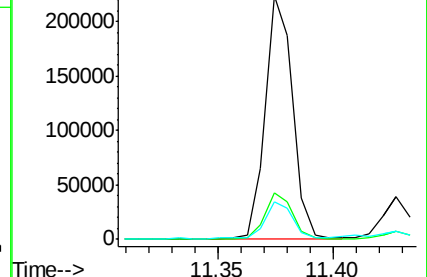
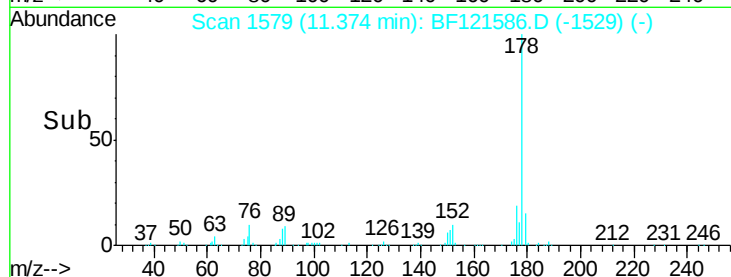
179 15.5 12.6 19.0



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



#75

Fluoranthene

Concen: 6.468 ng

RT: 12.56 min Scan# 1781

Delta R.T. -0.00 min

Lab File: BF121586.D

Acq: 15 Sep 2020 19:33

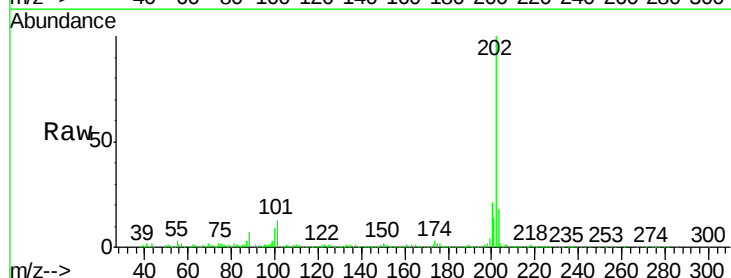
Tgt Ion:202 Resp: 256731

Ion Ratio Lower Upper

202 100

101 12.8 0.0 34.0

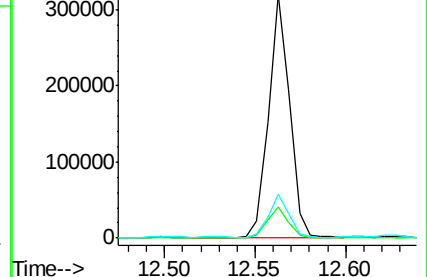
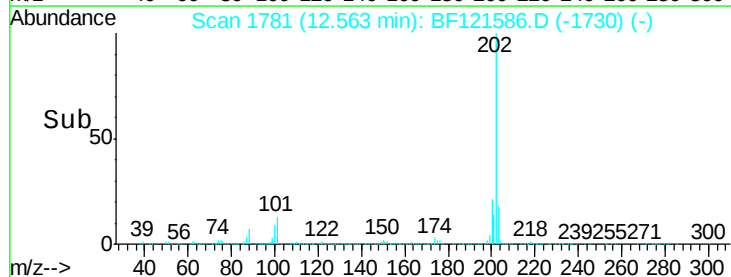
203 17.9 0.0 38.2

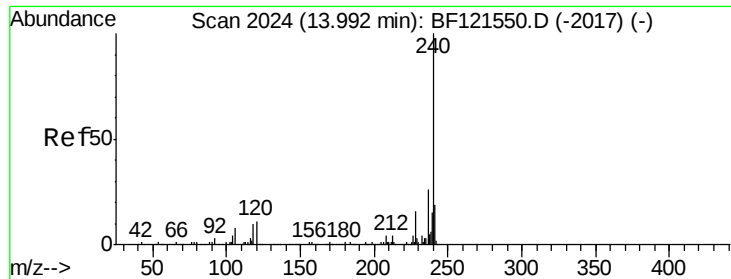


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

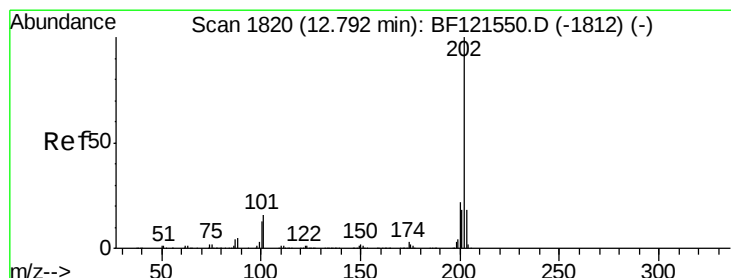
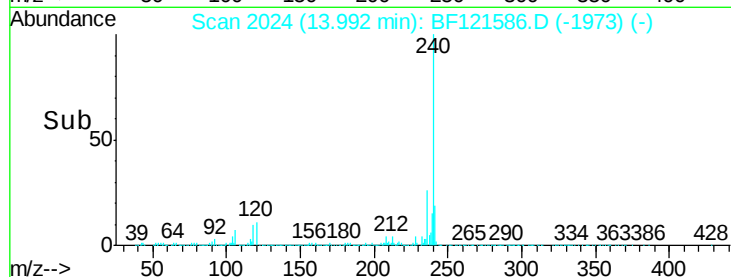
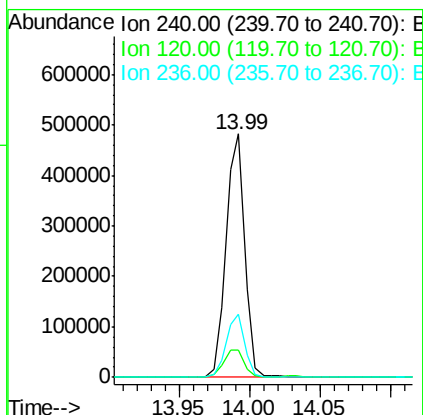
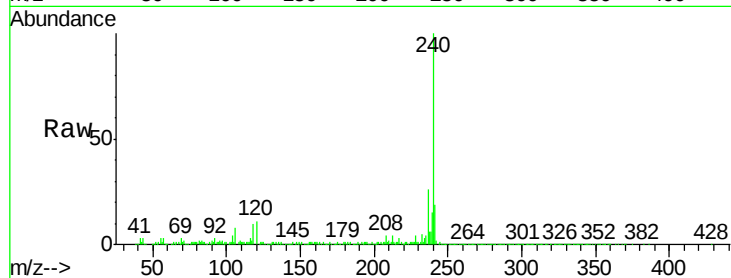




#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.99 min Scan# 2024
Delta R.T. -0.00 min
Lab File: BF121586.D
Acq: 15 Sep 2020 19:33

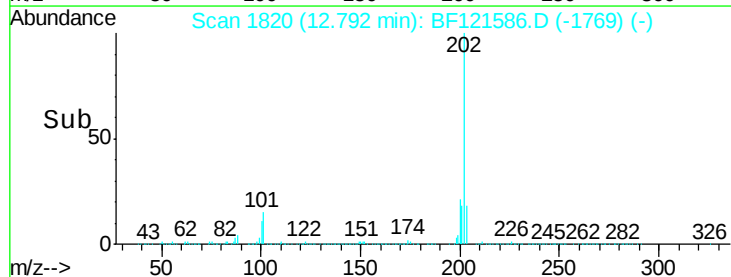
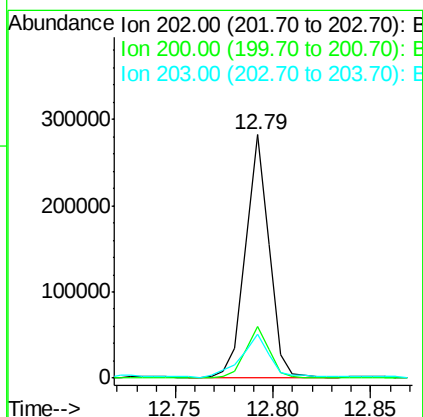
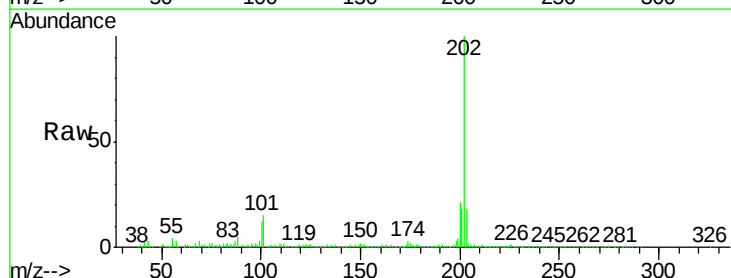
Instrument :
BNA_F
ClientSampleId :
32-34

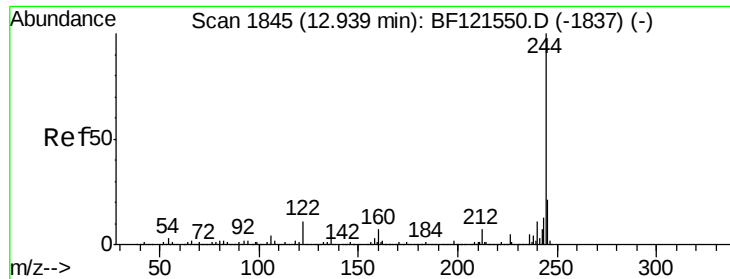
Tot Ion:240 Resp: 439477
Ion Ratio Lower Upper
240 100
120 11.3 9.2 13.8
236 25.9 20.5 30.7



#78
Pyrene
Concen: 7.349 ng
RT: 12.79 min Scan# 1820
Delta R.T. -0.00 min
Lab File: BF121586.D
Acq: 15 Sep 2020 19:33

Tgt Ion:202 Resp: 235982
Ion Ratio Lower Upper
202 100
200 21.3 17.8 26.8
203 18.1 14.6 22.0





#79

Terphenyl-d14

Concen: 12.875 ng

RT: 12.93 min Scan# 1844

Delta R.T. -0.01 min

Lab File: BF121586.D

Acq: 15 Sep 2020 19:33

Instrument :

BNA_F

ClientSampleId :

32-34

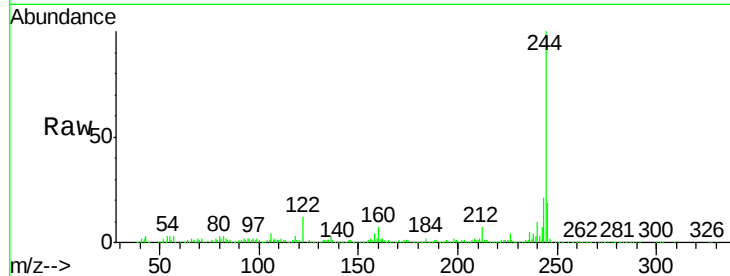
Tot Ion:244 Resp: 279303

Ion Ratio Lower Upper

244 100

212 6.9 5.7 8.5

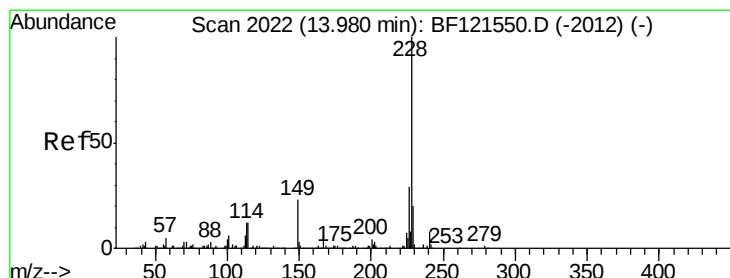
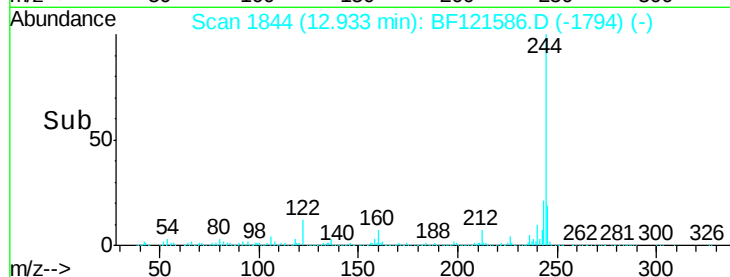
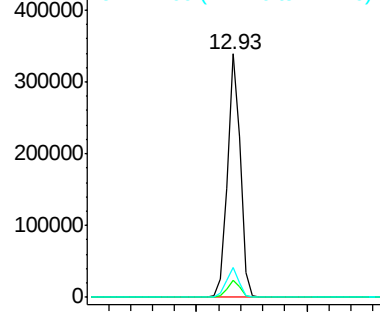
122 12.5 8.7 13.1



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: 3.768 ng

RT: 13.98 min Scan# 2022

Delta R.T. -0.00 min

Lab File: BF121586.D

Acq: 15 Sep 2020 19:33

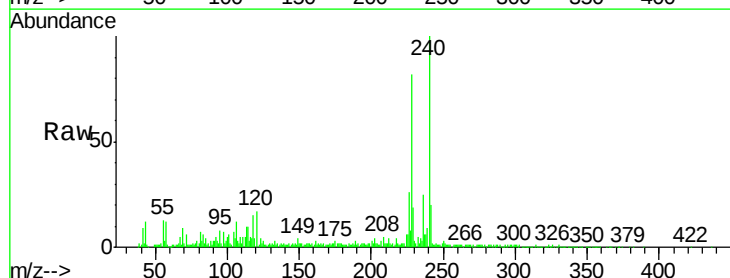
Tgt Ion:228 Resp: 104753

Ion Ratio Lower Upper

228 100

226 31.4 22.9 34.3

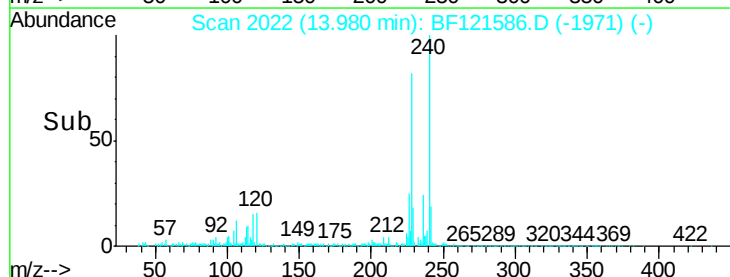
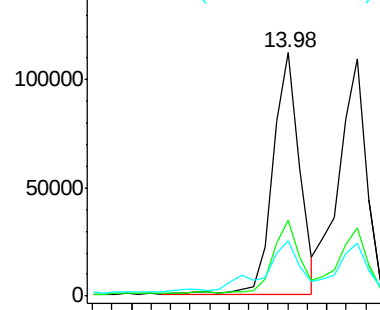
229 23.0 16.3 24.5

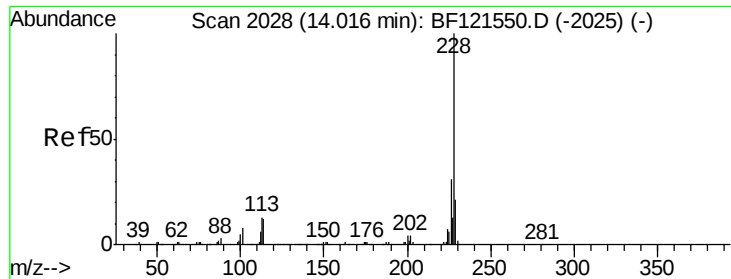


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

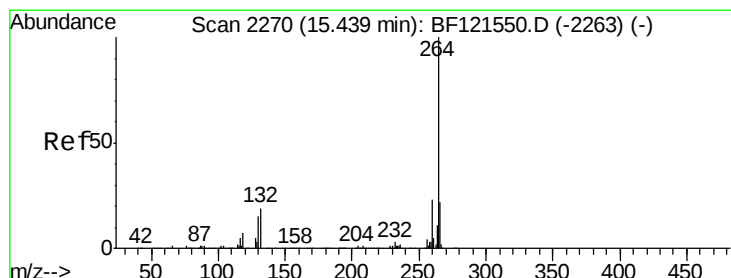
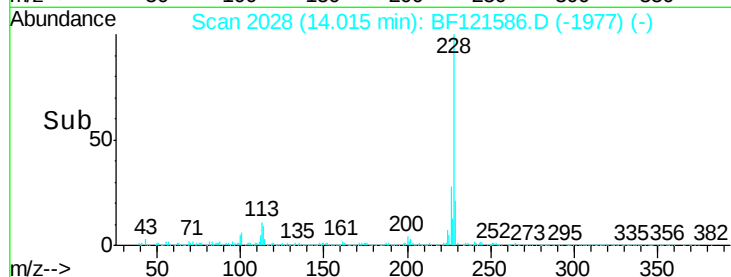
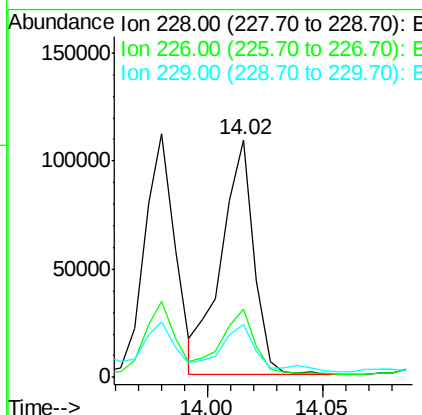
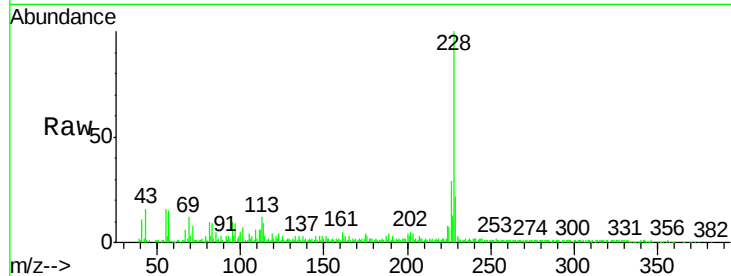




#83
Chrysene
Concen: 3.808 ng
RT: 14.02 min Scan# 2028
Delta R.T. -0.00 min
Lab File: BF121586.D
Acq: 15 Sep 2020 19:33

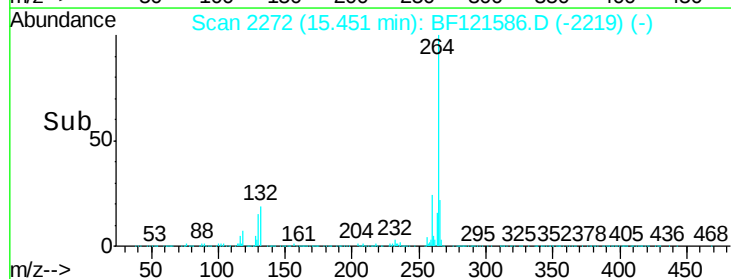
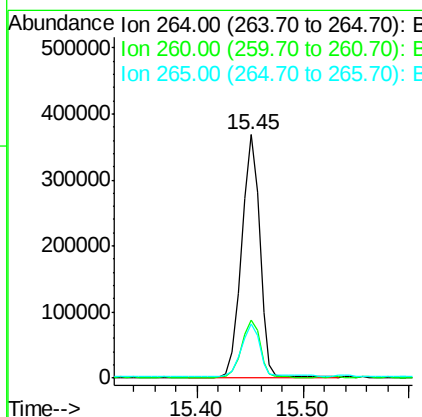
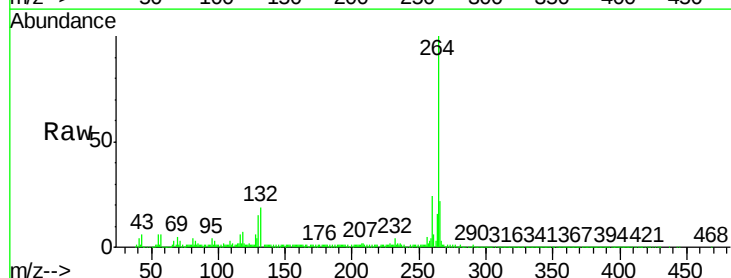
Instrument :
BNA_F
ClientSampleId :
32-34

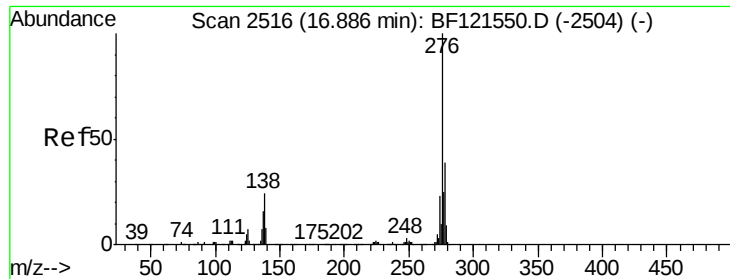
Tot Ion:228	Resp:	107207
Ion	Ratio	Lower Upper
228	100	
226	28.9	25.1 37.7
229	22.3	16.6 25.0



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.45 min Scan# 2272
Delta R.T. 0.01 min
Lab File: BF121586.D
Acq: 15 Sep 2020 19:33

Tgt Ion:264	Resp:	432648
Ion	Ratio	Lower Upper
264	100	
260	24.0	18.8 28.2
265	22.1	17.8 26.6

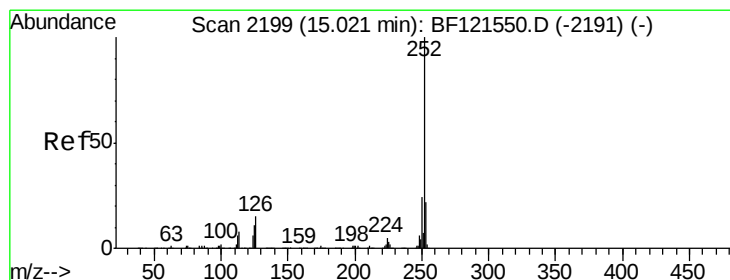
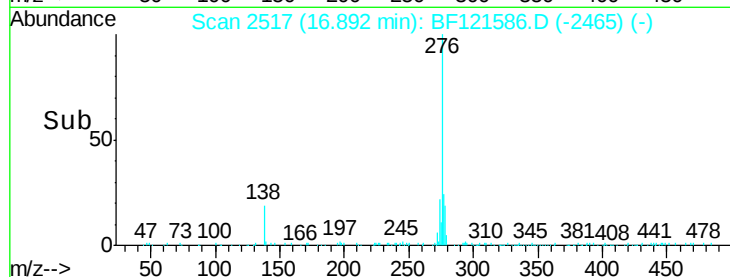
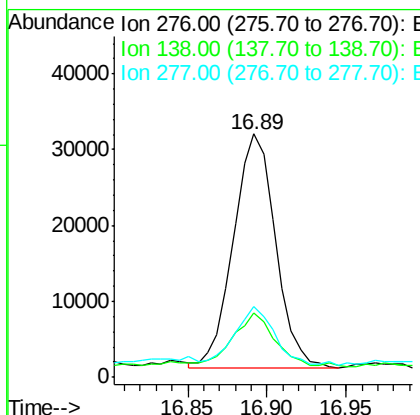
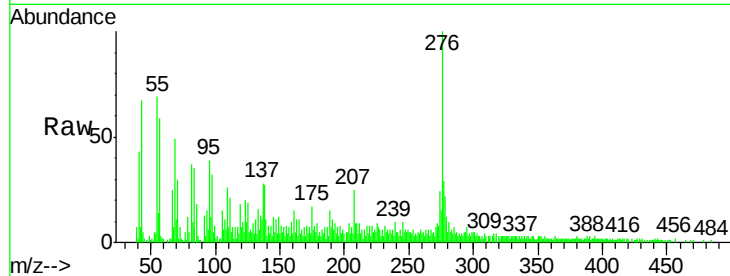




#87
 Indeno(1,2,3-cd)pyrene
 Concen: 2.010 ng
 RT: 16.89 min Scan# 2517
 Delta R.T. 0.01 min
 Lab File: BF121586.D
 Acq: 15 Sep 2020 19:33

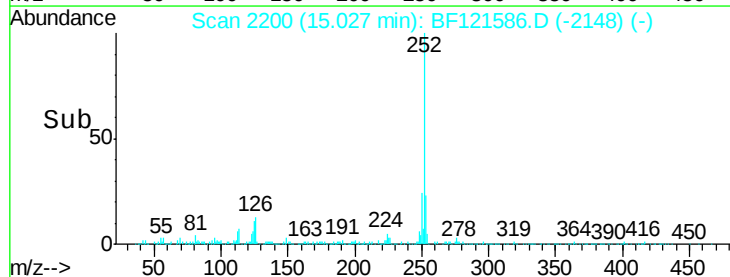
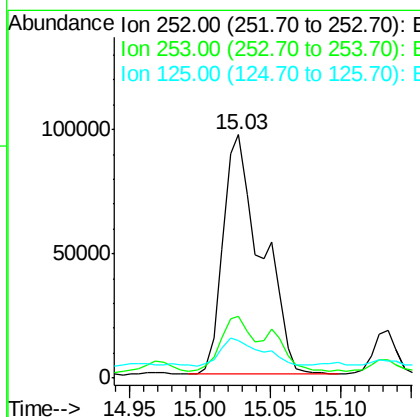
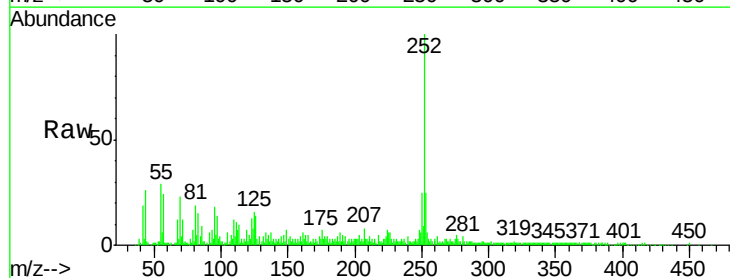
Instrument :
 BNA_F
 ClientSampleId :
 32-34

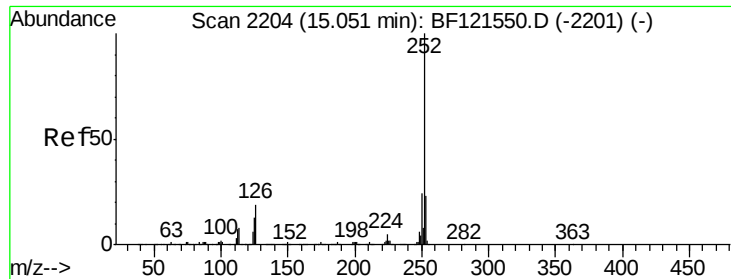
Tot Ion	Ratio	Lower	Upper
276	100		
138	21.6	20.6	31.0
277	23.7	20.2	30.4



#88
 Benzo(b)fluoranthene
 Concen: 6.375 ng
 RT: 15.03 min Scan# 2200
 Delta R.T. 0.01 min
 Lab File: BF121586.D
 Acq: 15 Sep 2020 19:33

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.2	17.9	26.9
125	15.6	9.2	13.8





#89

Benzo(k)fluoranthene

Concen: 6.961 ng

RT: 15.03 min Scan# 2200

Delta R.T. -0.02 min

Lab File: BF121586.D

Acq: 15 Sep 2020 19:33

Instrument :

BNA_F

ClientSampleId :

32-34

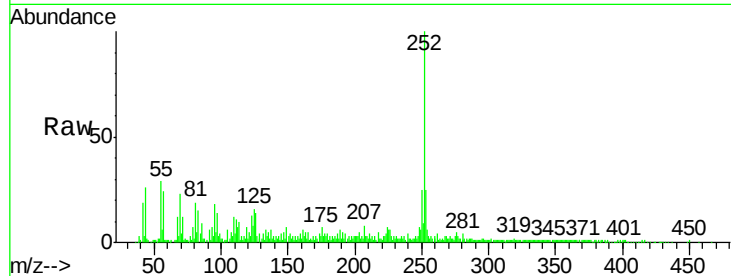
Tot Ion:252 Resp: 184376

Ion Ratio Lower Upper

252 100

253 25.2 17.8 26.8

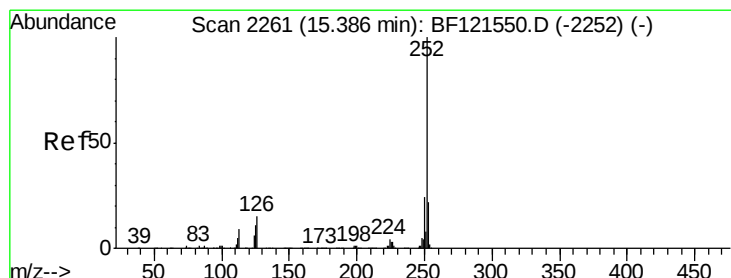
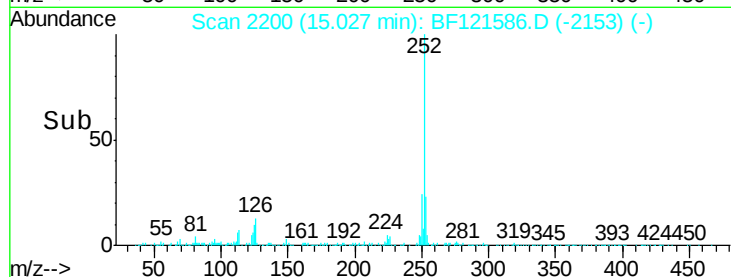
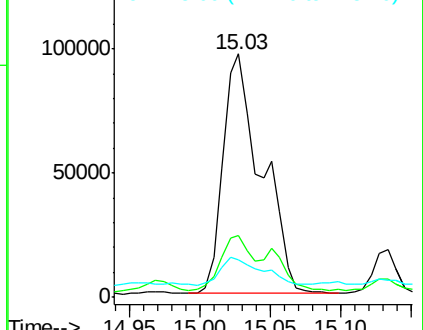
125 15.6 9.8 14.6#



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: 3.917 ng

RT: 15.39 min Scan# 2261

Delta R.T. -0.00 min

Lab File: BF121586.D

Acq: 15 Sep 2020 19:33

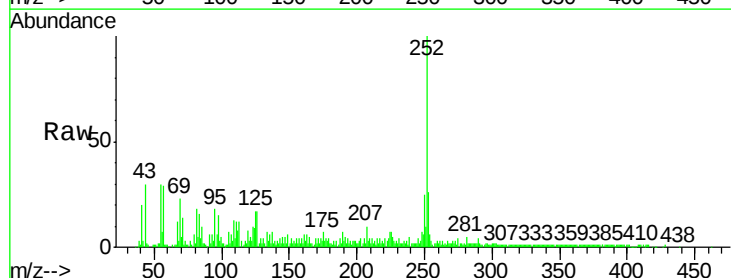
Tgt Ion:252 Resp: 96294

Ion Ratio Lower Upper

252 100

253 26.0 17.5 26.3

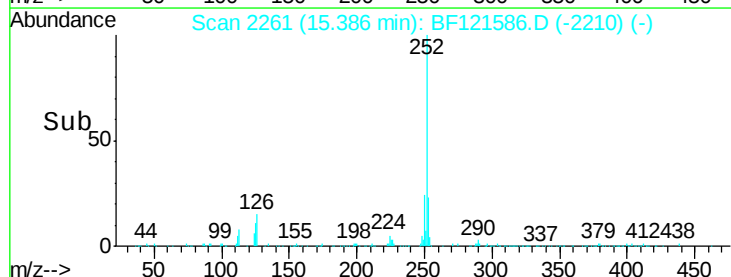
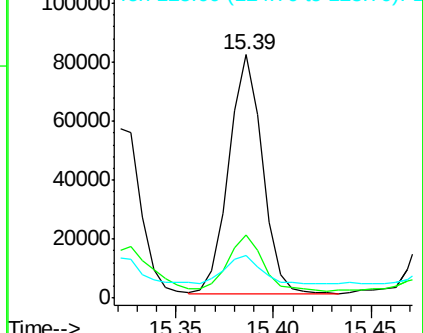
125 17.5 9.0 13.4#

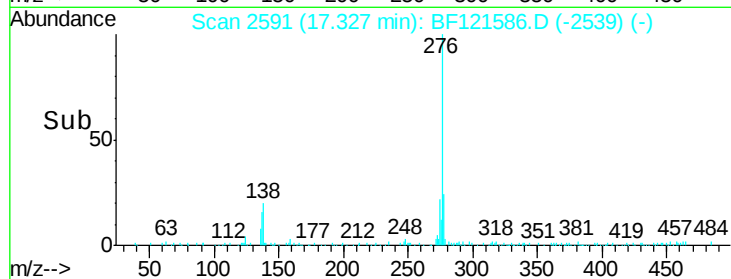
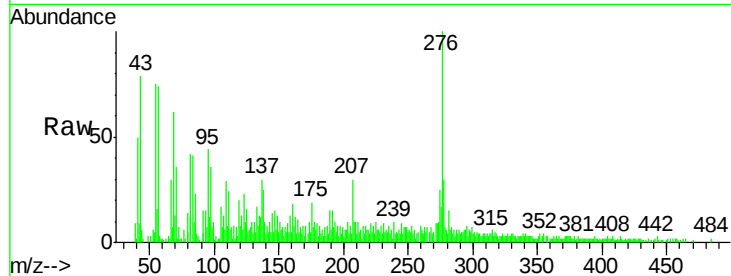
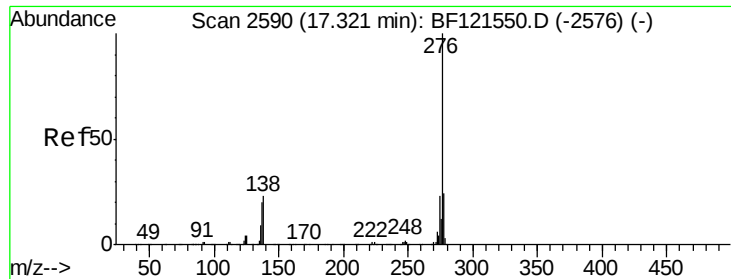


Abundance Ion 252.00 (251.70 to 252.70): E

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: 2.183 ng

RT: 17.33 min Scan# 2591

Delta R.T. 0.01 min

Lab File: BF121586.D

Acq: 15 Sep 2020 19:33

Instrument :

BNA_F

ClientSampleId :

32-34

Tot Ion: 276 Resp: 50326

Ion Ratio Lower Upper

276 100

277 29.7 19.4 29.0#

138 24.7 18.7 28.1

