

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100120\
 Data File : BF121785.D
 Acq On : 2 Oct 2020 00:23
 Operator : JU/CG
 Sample : L4193-07DL 10X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B-14(13-14)DL

Quant Time: Oct 02 02:01:08 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 01 14:29:14 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.77	152	130408	20.00	ng	0.00
21) Naphthalene-d8	8.06	136	484525	20.00	ng	0.00
39) Acenaphthene-d10	9.81	164	217651	20.00	ng	0.00
64) Phenanthrene-d10	11.30	188	350060	20.00	ng	0.00
76) Chrysene-d12	13.94	240	297899	20.00	ng	0.00
86) Perylene-d12	15.38	264	247119	20.00	ng	0.02

System Monitoring Compounds

5) 2-Fluorophenol	5.39	112	60378	6.88	ng	0.00
7) Phenol-d6	6.42	99	75599	6.57	ng	0.00
23) Nitrobenzene-d5	7.33	82	46023	5.10	ng	0.00
42) 2,4,6-Tribromophenol	10.60	330	13907	5.14	ng	0.00
45) 2-Fluorobiphenyl	9.13	172	92807	6.46	ng	0.00
79) Terphenyl-d14	12.88	244	72343	4.92	ng	0.00

Target Compounds

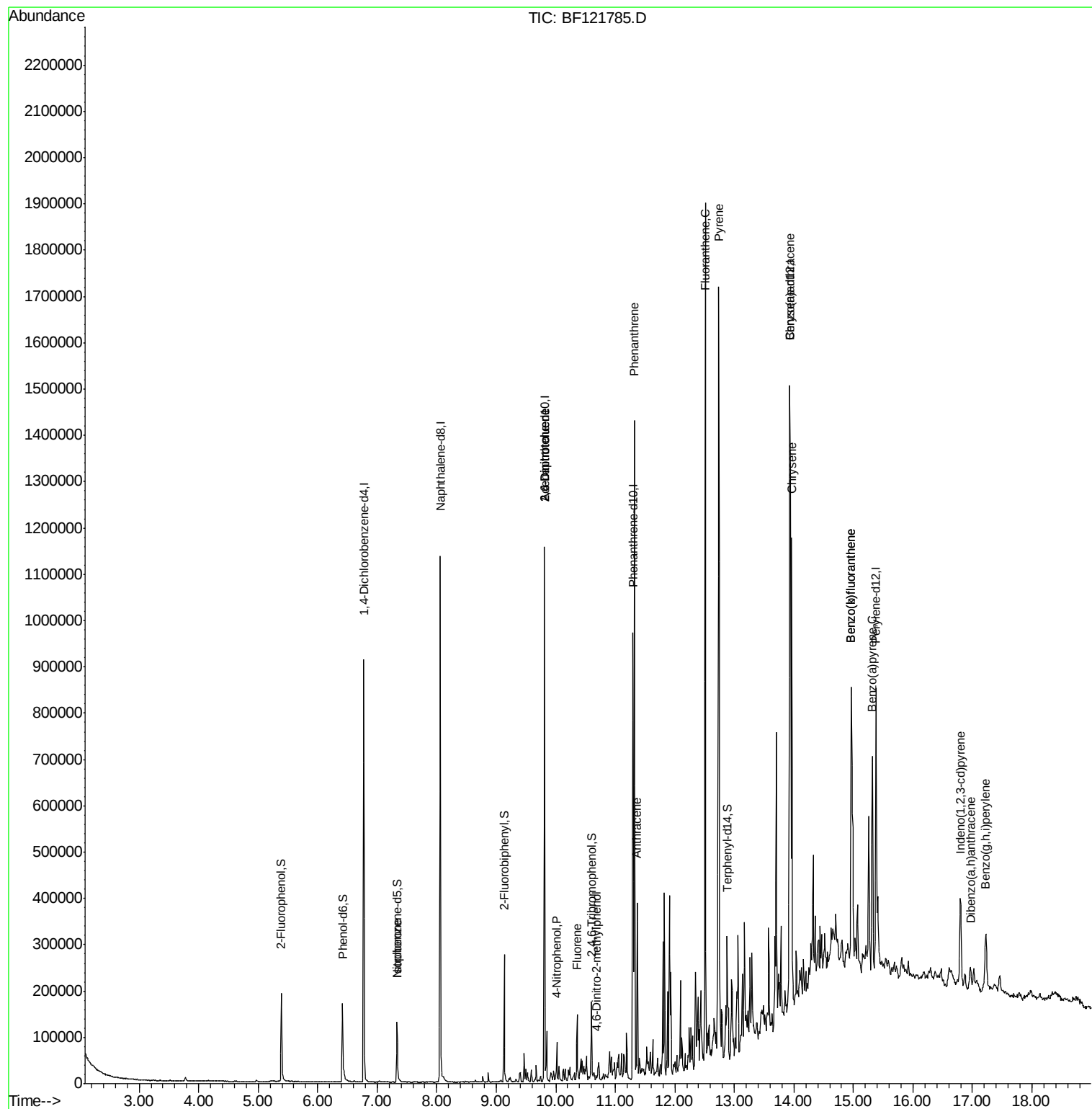
						Qvalue
25) Isophorone	7.33	82	46022	2.533	ng	# 67
51) 2,6-Dinitrotoluene	9.81	165	29321	8.728	ng	# 21
56) 4-Nitrophenol	10.02	139	8406	2.708	ng	# 12
57) 2,4-Dinitrotoluene	9.81	165	29321	6.937	ng	# 20
58) Fluorene	10.36	166	36097	2.515	ng	100
65) 4,6-Dinitro-2-methylphenol	10.68	198	126	6.902	ng	# 24
71) Phenanthrene	11.32	178	457643	23.995	ng	99
72) Anthracene	11.37	178	142650	7.248	ng	98
75) Fluoranthene	12.51	202	674609	33.134	ng	99
78) Pyrene	12.74	202	658907	30.273	ng	99
81) Benzo(a)anthracene	13.93	228	410250	21.768	ng	99
83) Chrysene	13.96	228	332394	17.417	ng	98
87) Indeno(1,2,3-cd)pyrene	16.80	276	115649	7.186	ng	96
88) Benzo(b)fluoranthene	14.96	252	451242	27.315	ng	99
89) Benzo(k)fluoranthene	14.96	252	451242	29.828	ng	98
90) Benzo(a)pyrene	15.32	252	230629	16.423	ng	97
91) Dibenzo(a,h)anthracene	16.97	278	28375	2.118	ng	97
92) Benzo(g,h,i)perylene	17.23	276	98952	7.514	ng	98

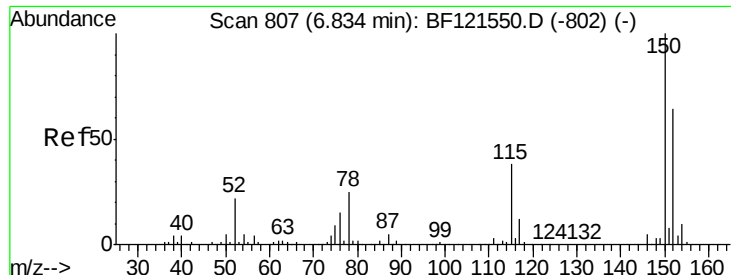
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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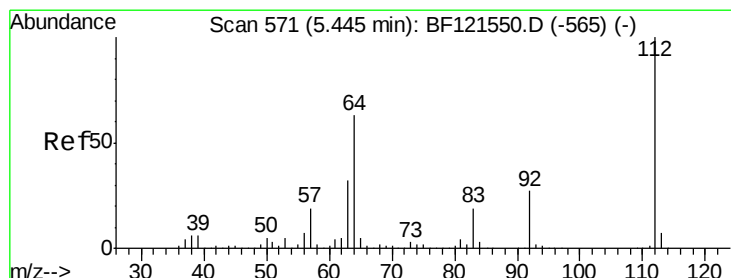
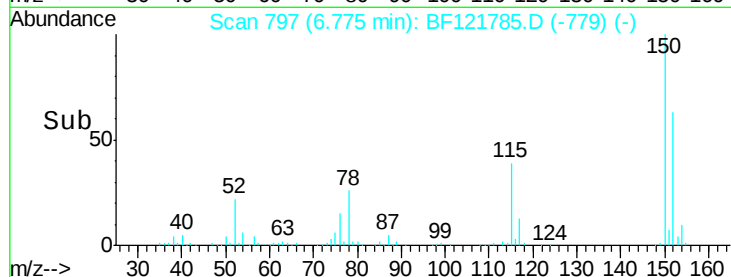
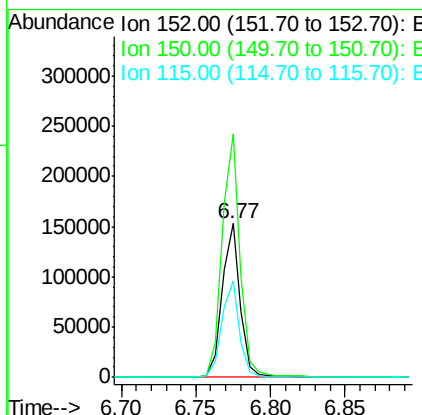
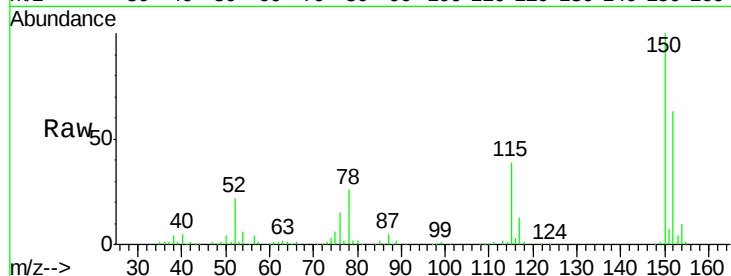


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.77 min Scan# 797
Delta R.T. 0.01 min
Lab File: BF121785.D
Acq: 2 Oct 2020 00:23

Instrument :
BNA_F
ClientSampleId :
B-14(13-14)DL

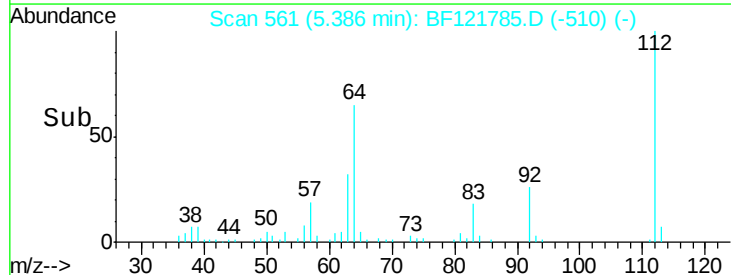
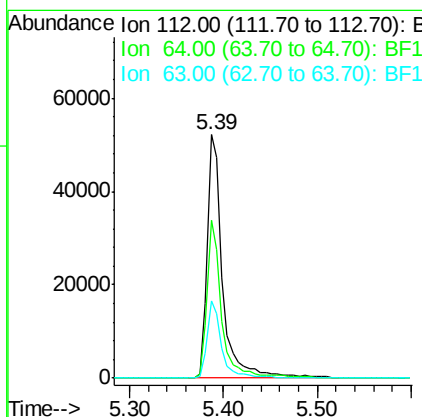
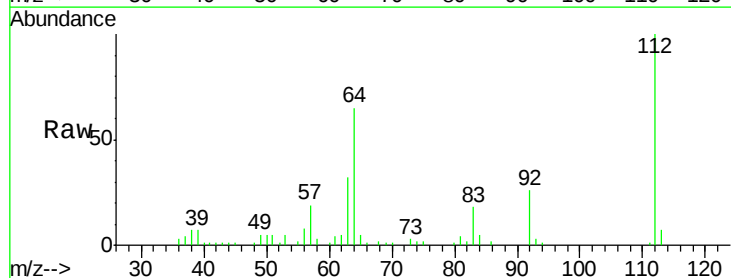
Tot Ion:152 Resp: 130408
Ion Ratio Lower Upper
152 100
150 158.2 125.3 187.9
115 62.5 51.9 77.9



#5

2-Fluorophenol
Concen: 6.881 ng
RT: 5.39 min Scan# 561
Delta R.T. -0.00 min
Lab File: BF121785.D
Acq: 2 Oct 2020 00:23

Tgt Ion:112 Resp: 60378
Ion Ratio Lower Upper
112 100
64 65.0 50.4 75.6
63 31.6 25.8 38.6





#7

Phenol-d6

Concen: 6.567 ng

RT: 6.42 min Scan# 736

Delta R.T. -0.00 min

Lab File: BF121785.D

Acq: 2 Oct 2020 00:23

Instrument :

BNA_F

ClientSampleId :

B-14(13-14)DL

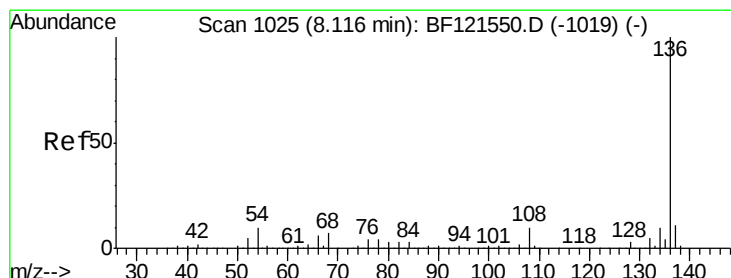
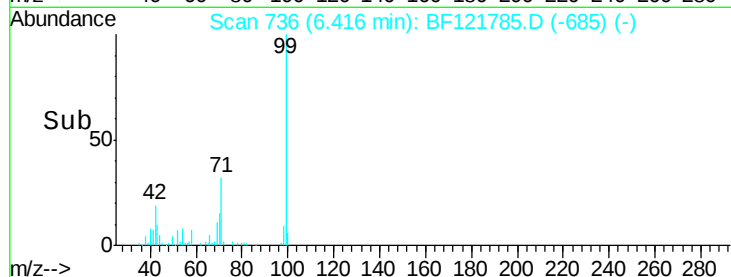
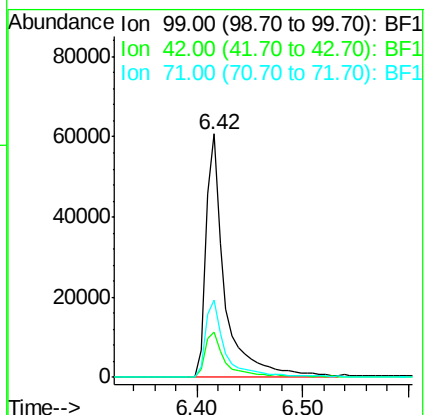
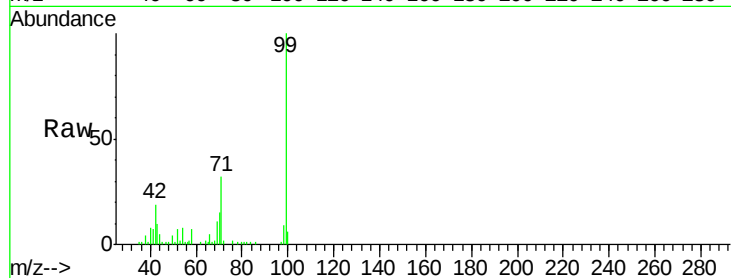
Tot Ion: 99 Resp: 75599

Ion Ratio Lower Upper

99 100

42 18.8 15.9 23.9

71 31.9 27.1 40.7



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.06 min Scan# 1015

Delta R.T. -0.00 min

Lab File: BF121785.D

Acq: 2 Oct 2020 00:23

Tgt Ion: 136 Resp: 484525

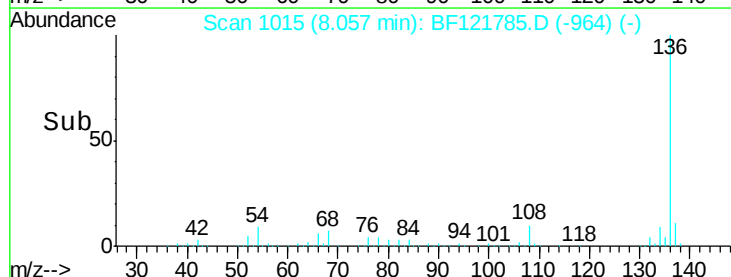
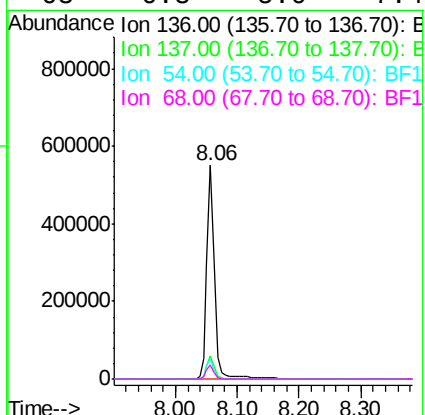
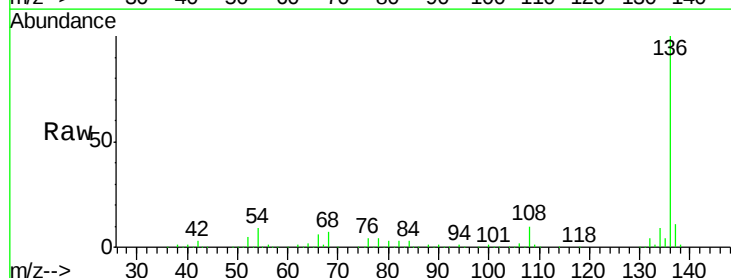
Ion Ratio Lower Upper

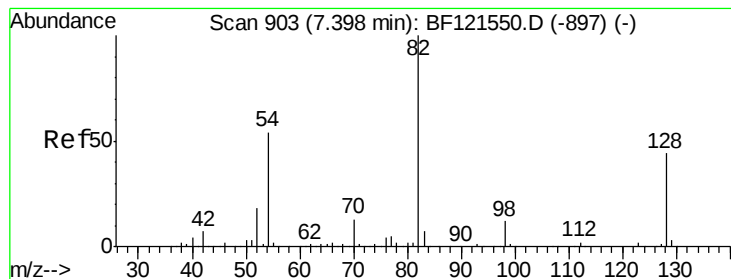
136 100

137 11.1 8.6 13.0

54 9.5 7.1 10.7

68 6.8 5.0 7.4





#23

Nitrobenzene-d5

Concen: 5.100 ng

RT: 7.33 min Scan# 892

Delta R.T. -0.01 min

Lab File: BF121785.D

Acq: 2 Oct 2020 00:23

Instrument :

BNA_F

ClientSampleId :

B-14(13-14)DL

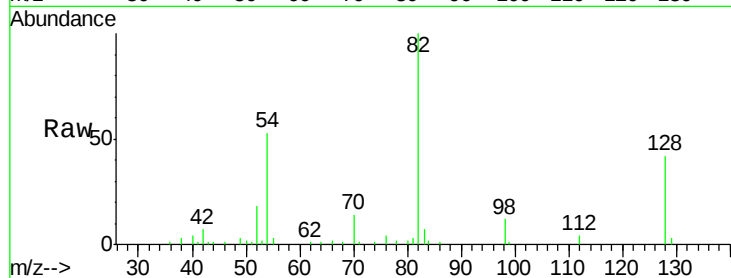
Tot Ion: 82 Resp: 46023

Ion Ratio Lower Upper

82 100

128 41.9 35.0 52.4

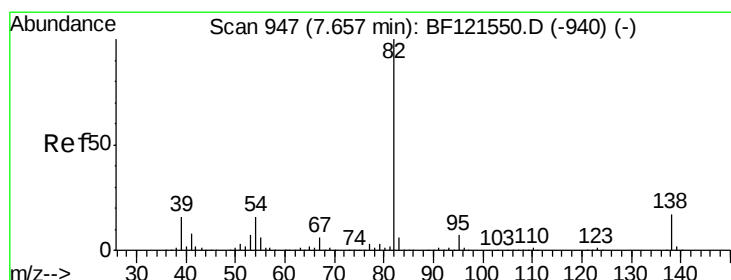
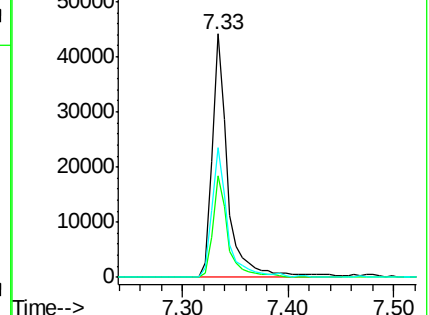
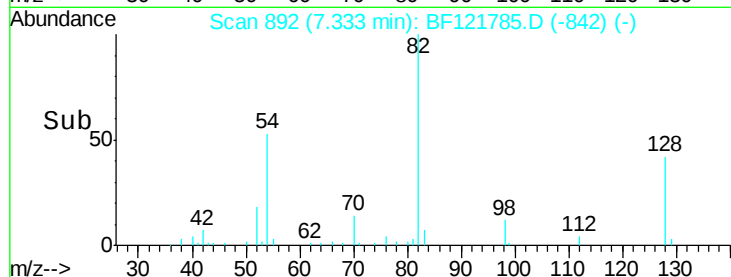
54 53.5 43.9 65.9



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: 2.533 ng

RT: 7.33 min Scan# 892

Delta R.T. -0.26 min

Lab File: BF121785.D

Acq: 2 Oct 2020 00:23

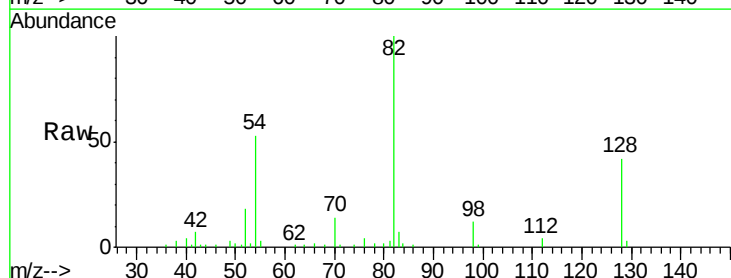
Tgt Ion: 82 Resp: 46022

Ion Ratio Lower Upper

82 100

95 0.0 5.4 8.0#

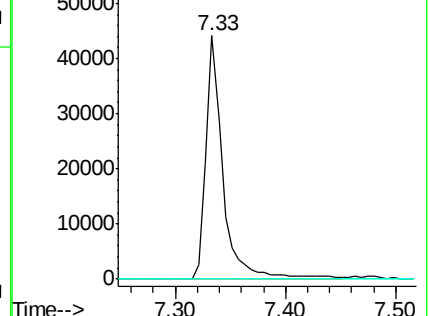
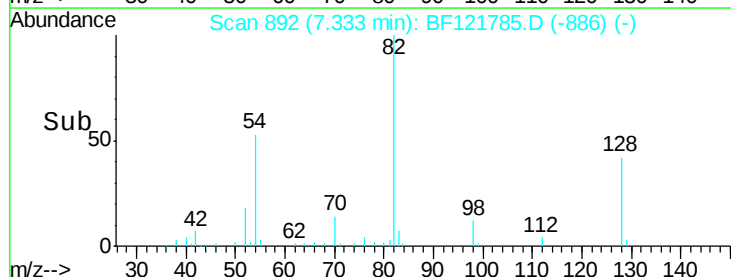
138 0.0 13.4 20.0#

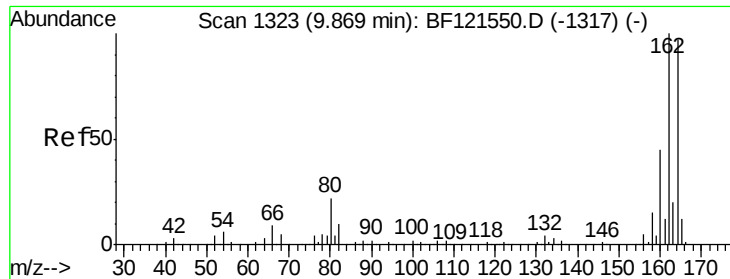


Abundance Ion 82.00 (81.70 to 82.70): BF1

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: 9.81 min Scan# 1313

Delta R.T. -0.00 min

Lab File: BF121785.D

Acq: 2 Oct 2020 00:23

Instrument :

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ClientSampleId :

B-14(13-14)DL

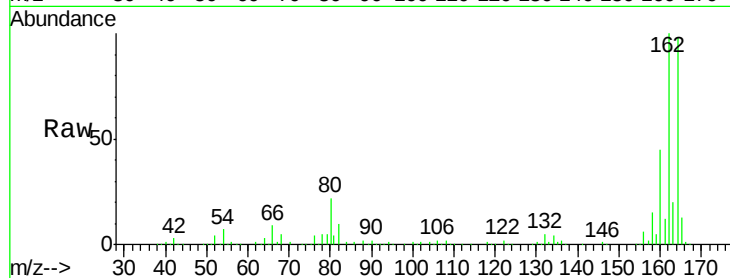
Tot Ion:164 Resp: 217651

Ion Ratio Lower Upper

164 100

162 101.9 83.2 124.8

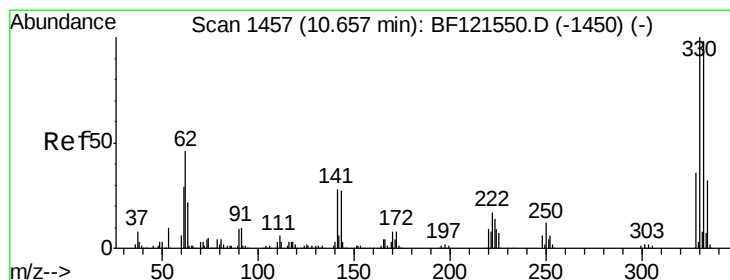
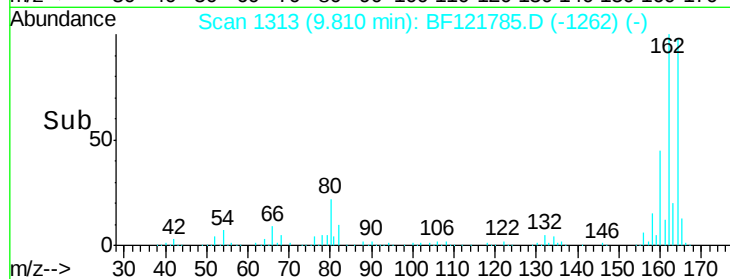
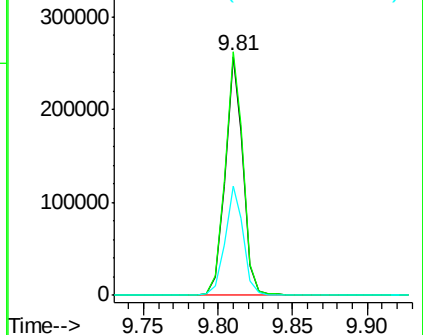
160 45.6 37.5 56.3



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: 5.141 ng

RT: 10.60 min Scan# 1447

Delta R.T. -0.01 min

Lab File: BF121785.D

Acq: 2 Oct 2020 00:23

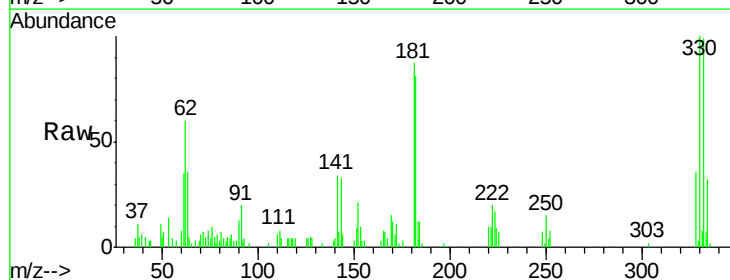
Tgt Ion:330 Resp: 13907

Ion Ratio Lower Upper

330 100

332 99.5 77.3 115.9

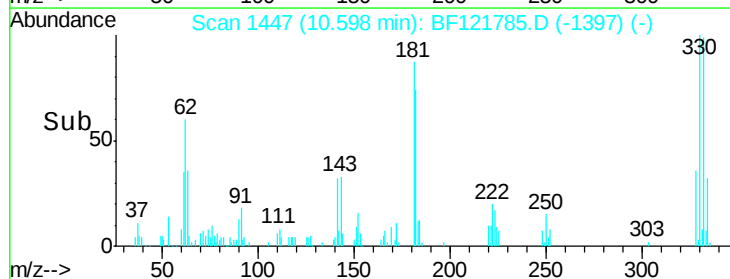
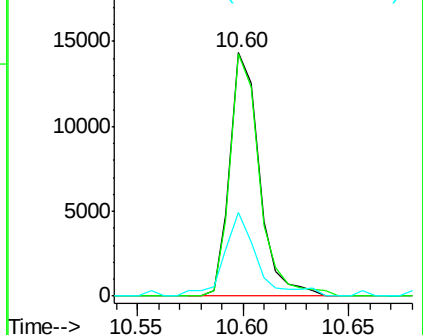
141 37.9 22.3 33.5#

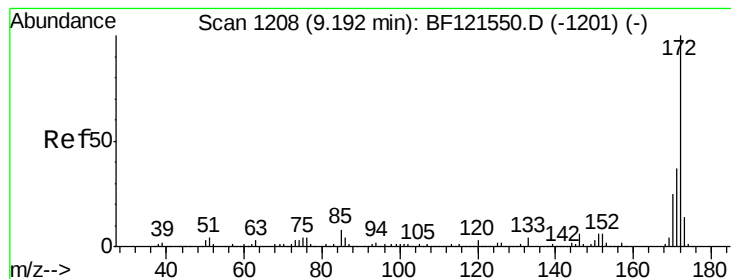


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#45

2-Fluorobiphenyl

Concen: 6.458 ng

RT: 9.13 min Scan# 1198

Delta R.T. -0.00 min

Lab File: BF121785.D

Acq: 2 Oct 2020 00:23

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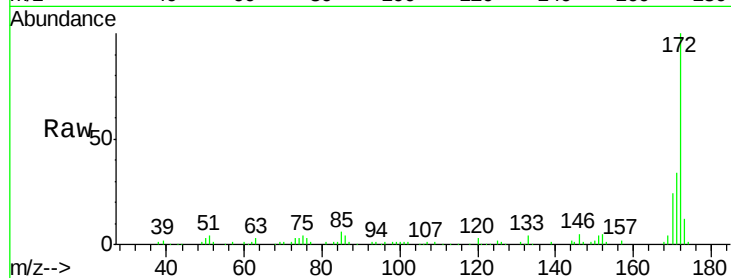
Tot Ion:172 Resp: 92807

Ion Ratio Lower Upper

172 100

171 34.1 29.1 43.7

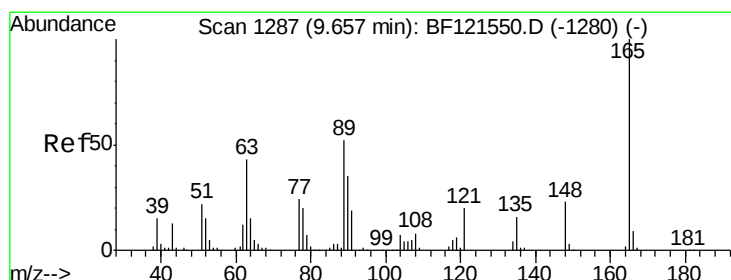
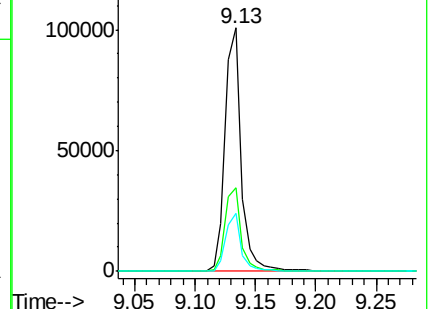
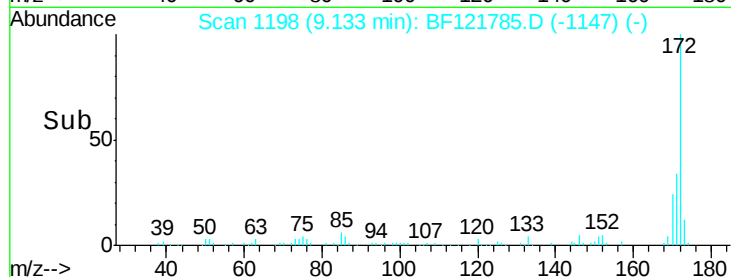
170 23.6 19.8 29.6



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



#51

2,6-Dinitrotoluene

Concen: 8.728 ng

RT: 9.81 min Scan# 1313

Delta R.T. 0.21 min

Lab File: BF121785.D

Acq: 2 Oct 2020 00:23

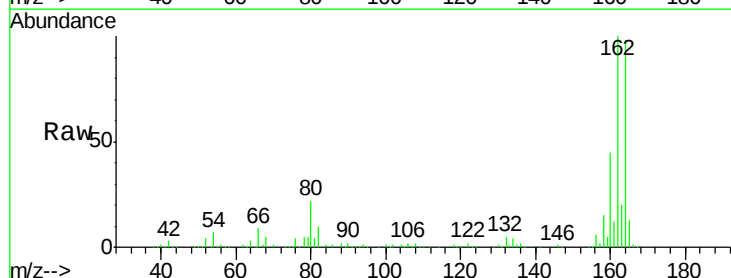
Tgt Ion:165 Resp: 29321

Ion Ratio Lower Upper

165 100

63 1.4 51.8 77.6#

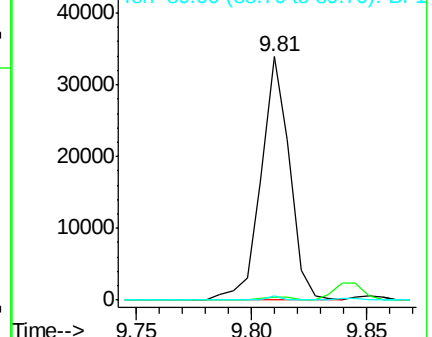
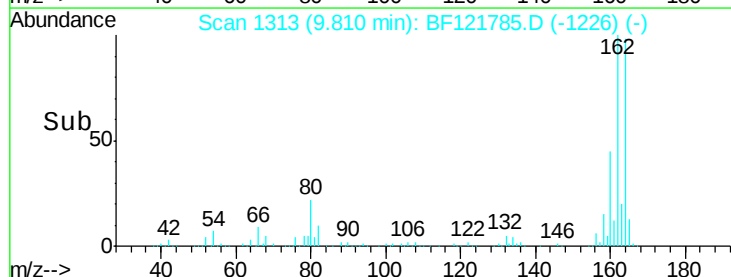
89 1.6 49.0 73.6#

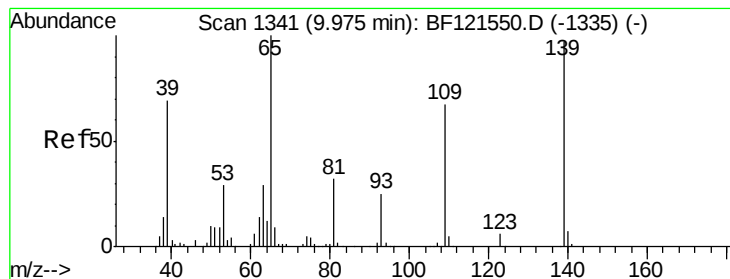


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1





#56

4-Nitrophenol

Concen: 2.708 ng

RT: 10.02 min Scan# 1348

Delta R.T. 0.08 min

Lab File: BF121785.D

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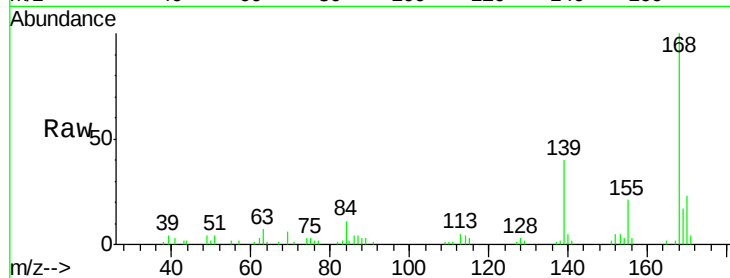
Tot Ion:139 Resp: 8406

Ion Ratio Lower Upper

139 100

109 2.9 45.4 85.4#

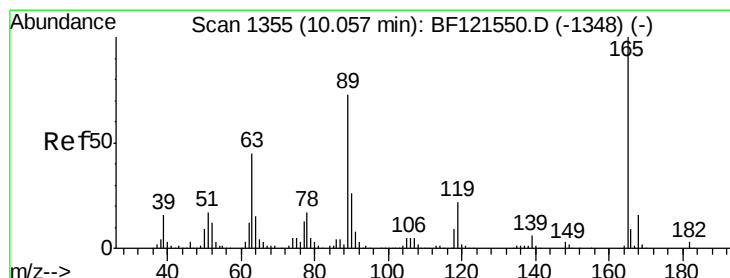
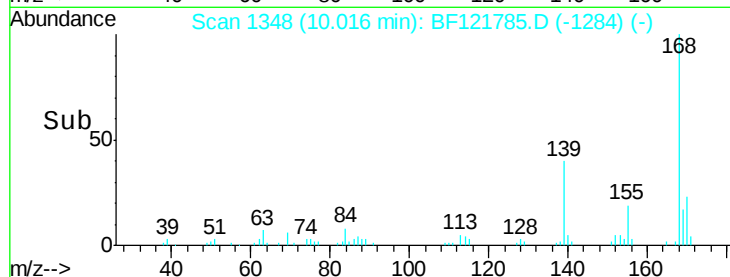
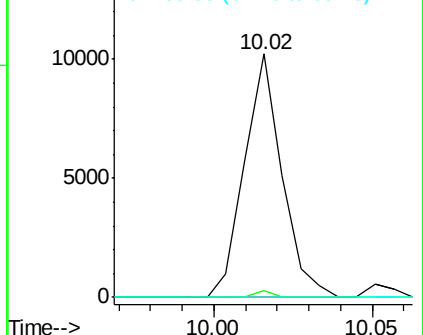
65 0.0 68.4 108.4#



Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1



#57

2,4-Dinitrotoluene

Concen: 6.937 ng

RT: 9.81 min Scan# 1313

Delta R.T. -0.19 min

Lab File: BF121785.D

Acq: 2 Oct 2020 00:23

Tgt Ion:165 Resp: 29321

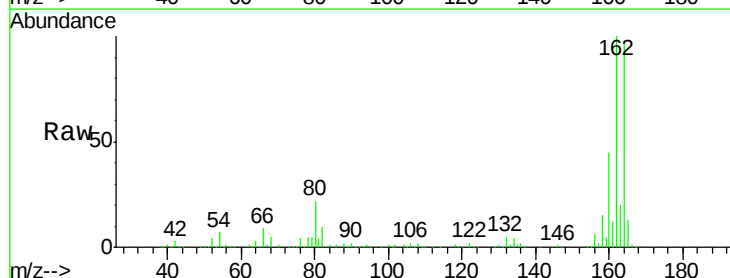
Ion Ratio Lower Upper

165 100

63 1.4 41.3 61.9#

89 1.6 61.8 92.8#

182 0.0 2.1 3.1#

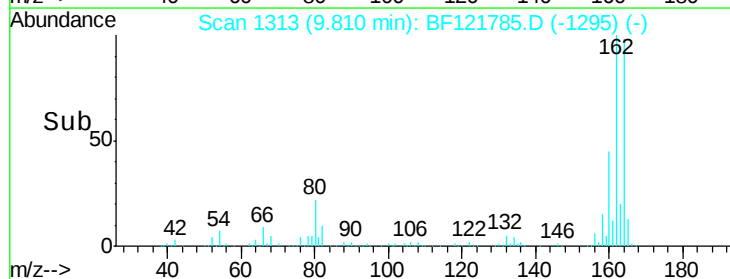
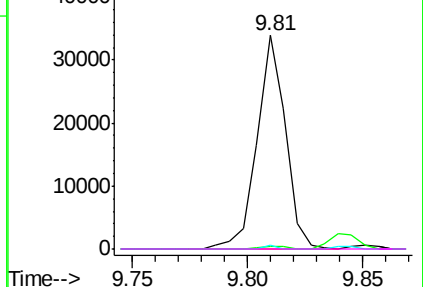


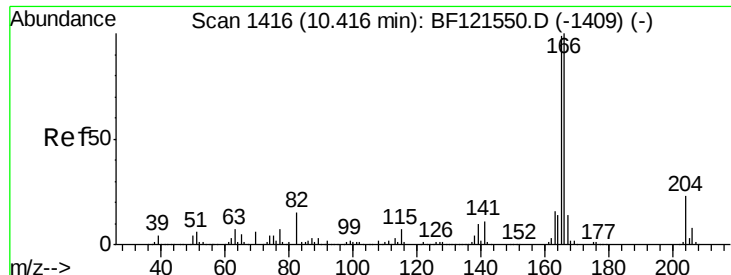
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E

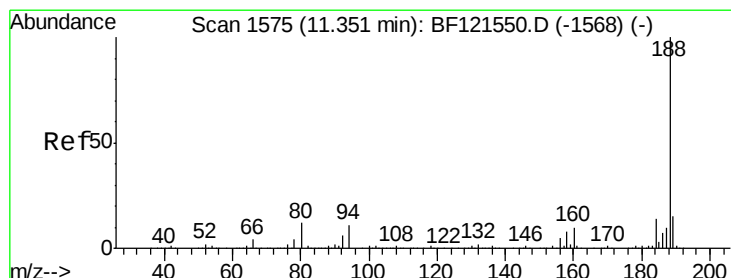
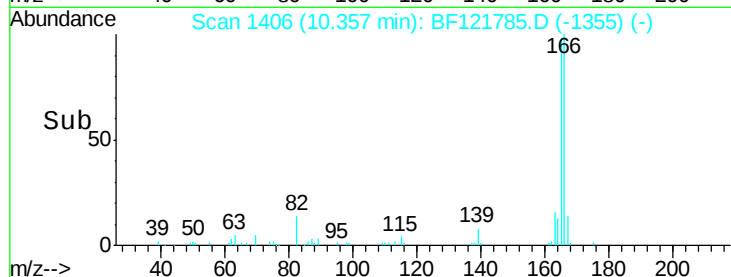
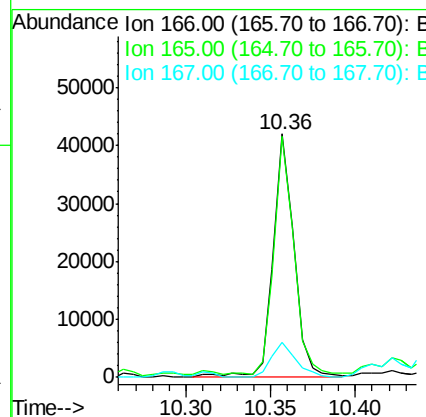
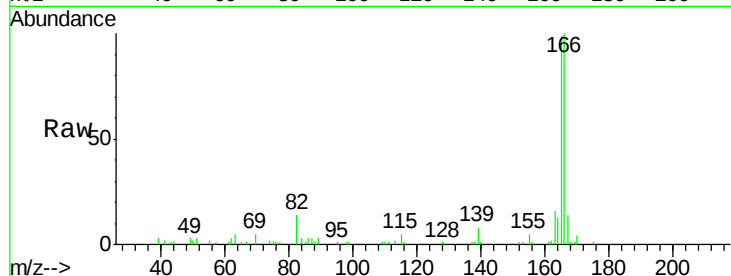




#58
 Fluorene
 Concen: 2.515 ng
 RT: 10.36 min Scan# 1406
 Delta R.T. -0.00 min
 Lab File: BF121785.D
 Acq: 2 Oct 2020 00:23

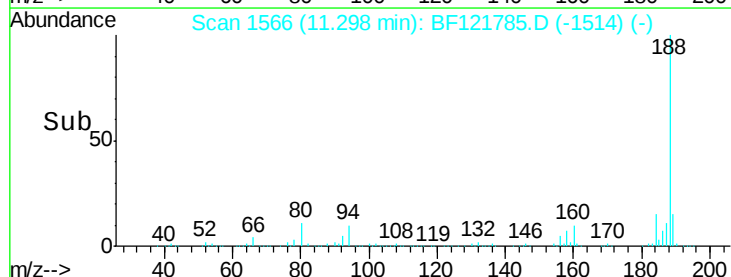
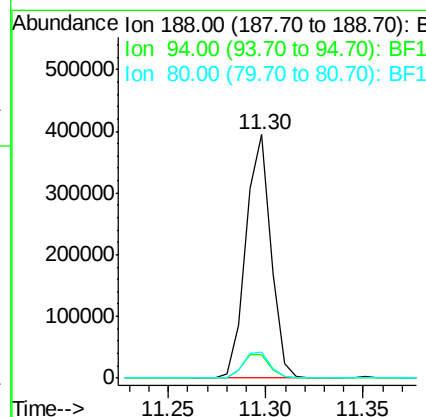
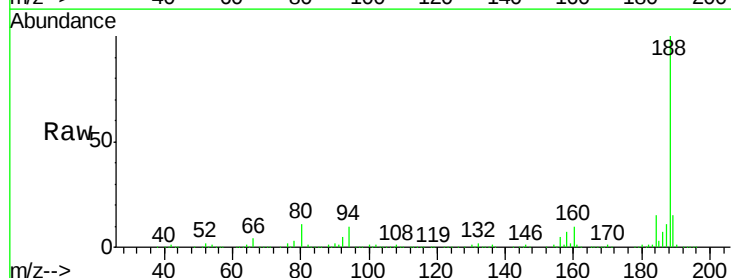
Instrument :
 BNA_F
 ClientSampleID :
 B-14(13-14)DL

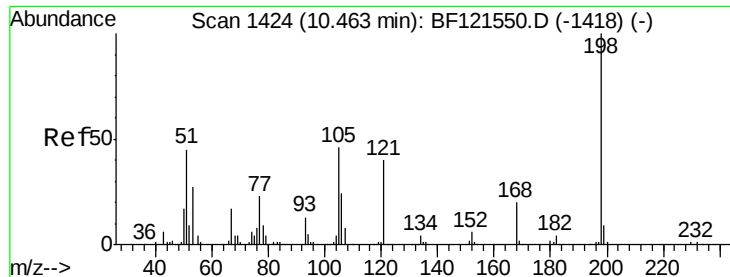
Tot Ion:166 Resp: 36097
 Ion Ratio Lower Upper
 166 100
 165 99.0 79.1 118.7
 167 14.1 11.0 16.6



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.30 min Scan# 1566
 Delta R.T. 0.01 min
 Lab File: BF121785.D
 Acq: 2 Oct 2020 00:23

Tgt Ion:188 Resp: 350060
 Ion Ratio Lower Upper
 188 100
 94 9.9 8.3 12.5
 80 10.7 9.1 13.7





#65

4,6-Dinitro-2-methylphenol

Concen: 6.902 ng

RT: 10.68 min Scan# 1461

Delta R.T. 0.26 min

Lab File: BF121785.D

Acq: 2 Oct 2020 00:23

Instrument :

BNA_F

ClientSampleId :

B-14(13-14)DL

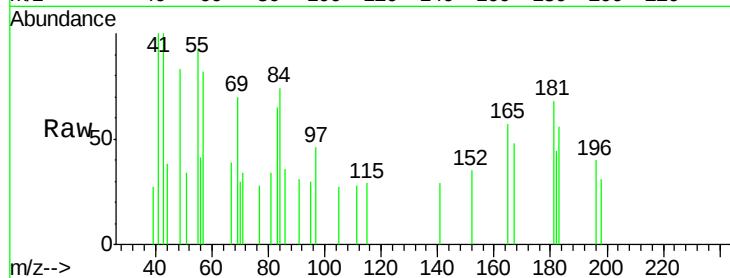
Tot Ion:198 Resp: 126

Ion Ratio Lower Upper

198 100

51 109.3 29.6 69.6#

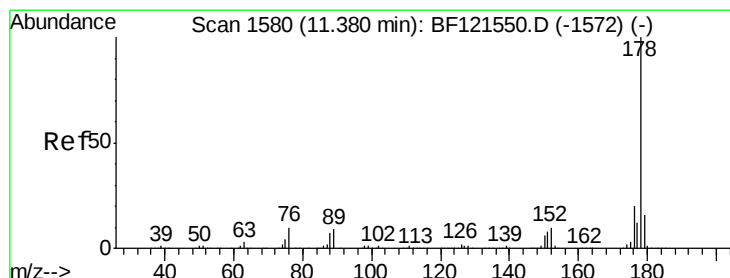
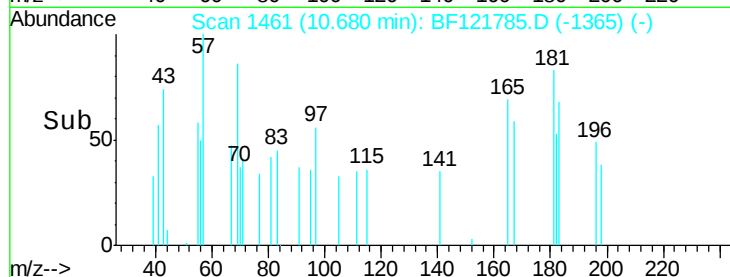
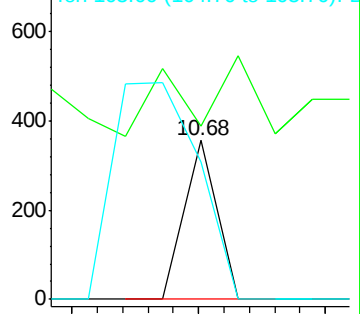
105 86.2 24.4 64.4#



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: 23.995 ng

RT: 11.32 min Scan# 1570

Delta R.T. -0.00 min

Lab File: BF121785.D

Acq: 2 Oct 2020 00:23

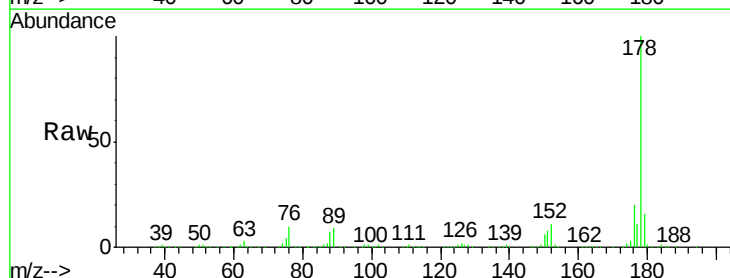
Tgt Ion:178 Resp: 457643

Ion Ratio Lower Upper

178 100

176 19.5 15.9 23.9

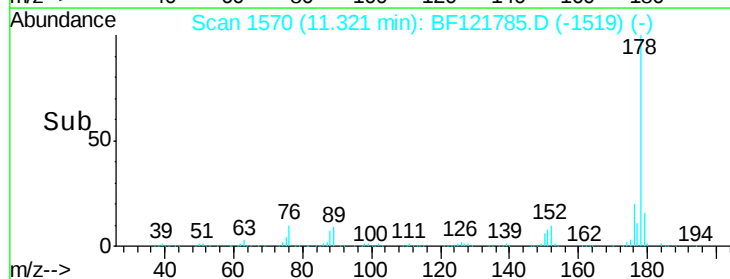
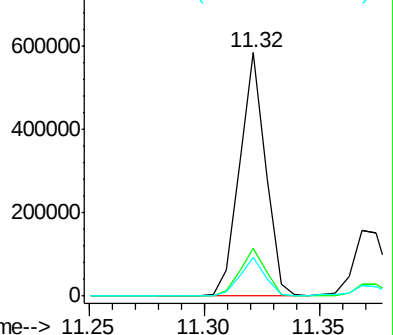
179 15.8 12.2 18.4

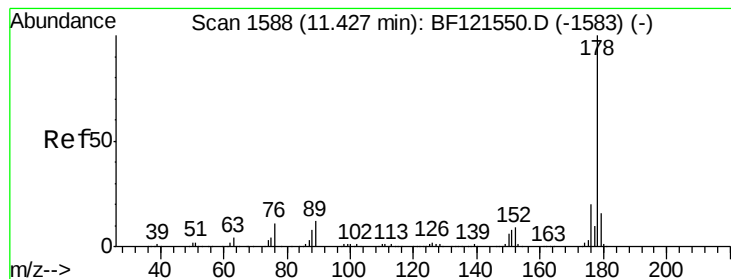


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Anthracene

Concen: 7.248 ng

RT: 11.37 min Scan# 1578

Delta R.T. -0.00 min

Lab File: BF121785.D

Acq: 2 Oct 2020 00:23

Instrument :

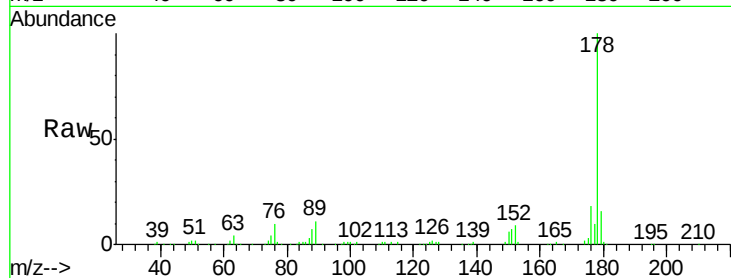
BNA_F

ClientSampleId :

B-14(13-14)DL

Tot Ion:178 Resp: 142650

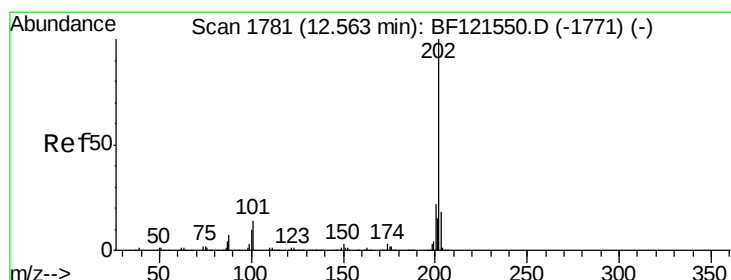
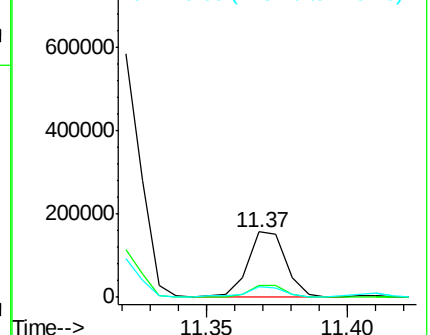
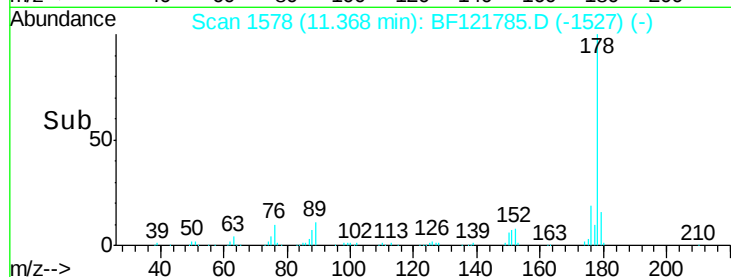
Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.7	23.5
179	15.6	12.7	19.1



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: 33.134 ng

RT: 12.51 min Scan# 1772

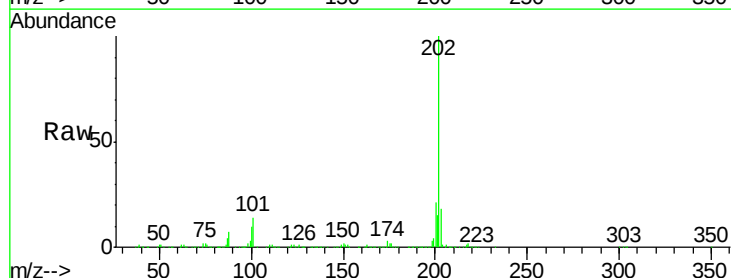
Delta R.T. 0.01 min

Lab File: BF121785.D

Acq: 2 Oct 2020 00:23

Tgt Ion:202 Resp: 674609

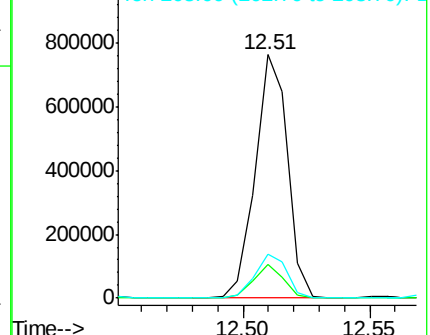
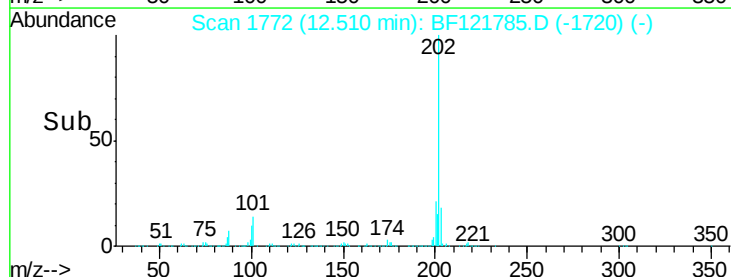
Ion	Ratio	Lower	Upper
202	100		
101	13.6	0.0	33.4
203	18.3	0.0	37.9

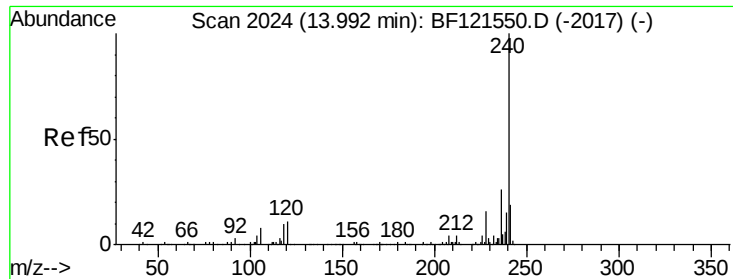


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

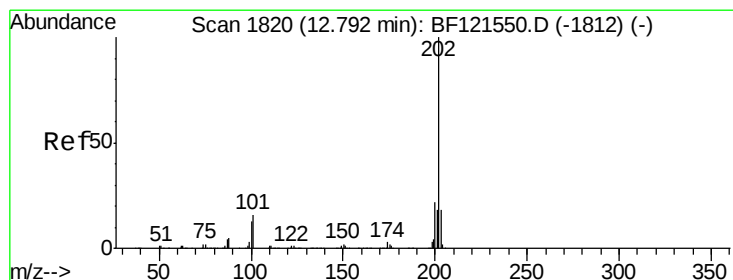
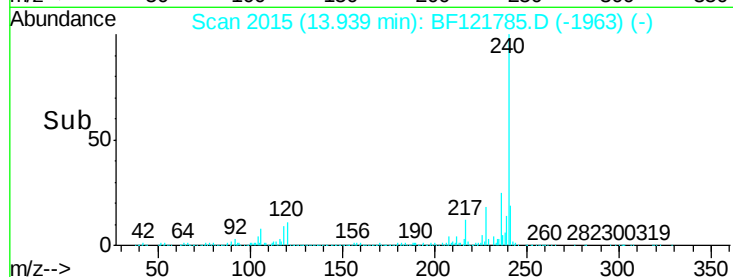
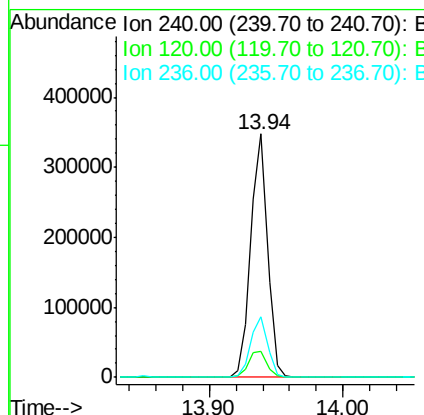
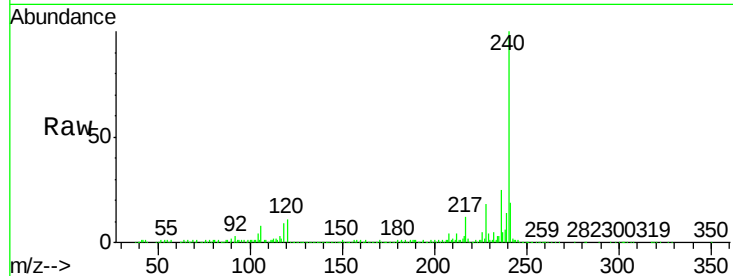




#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.94 min Scan# 2015
Delta R.T. 0.01 min
Lab File: BF121785.D
Acq: 2 Oct 2020 00:23

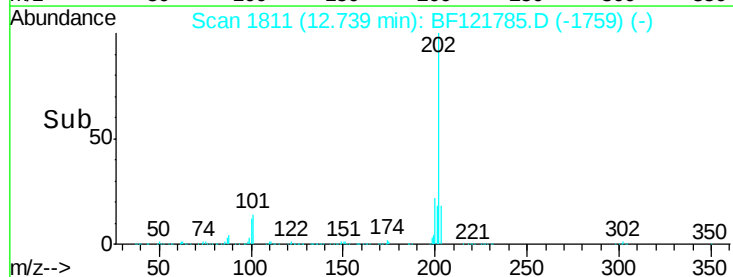
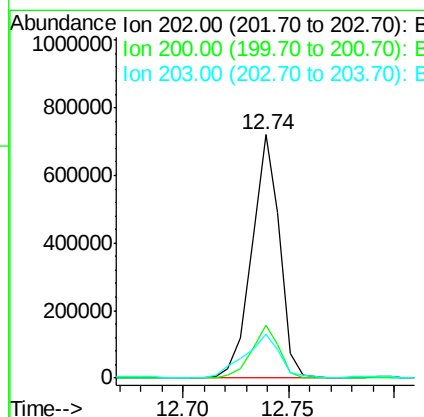
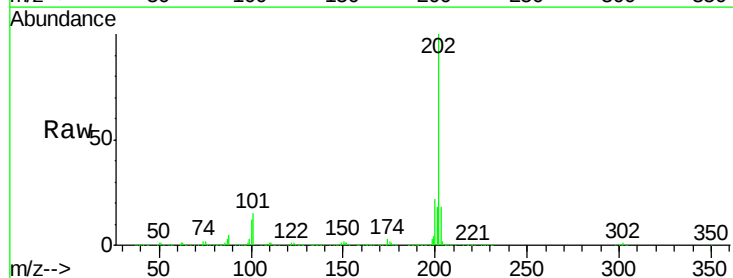
Instrument :
BNA_F
ClientSampleId :
B-14(13-14)DL

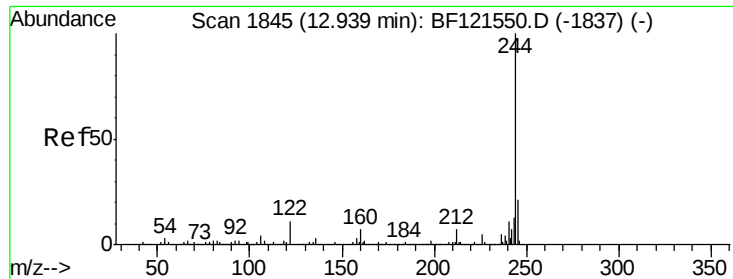
Tot Ion:240 Resp: 297899
Ion Ratio Lower Upper
240 100
120 10.9 9.2 13.8
236 25.1 20.9 31.3



#78
Pyrene
Concen: 30.273 ng
RT: 12.74 min Scan# 1811
Delta R.T. 0.01 min
Lab File: BF121785.D
Acq: 2 Oct 2020 00:23

Tgt Ion:202 Resp: 658907
Ion Ratio Lower Upper
202 100
200 21.5 17.4 26.2
203 17.9 14.6 21.8

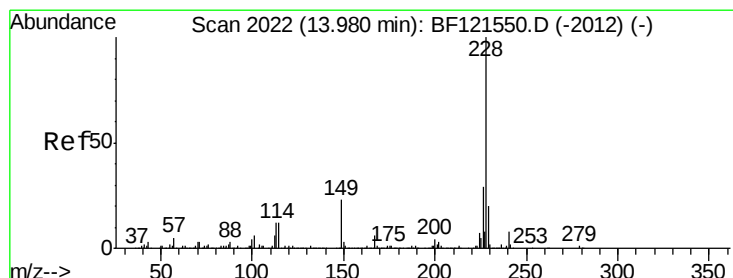
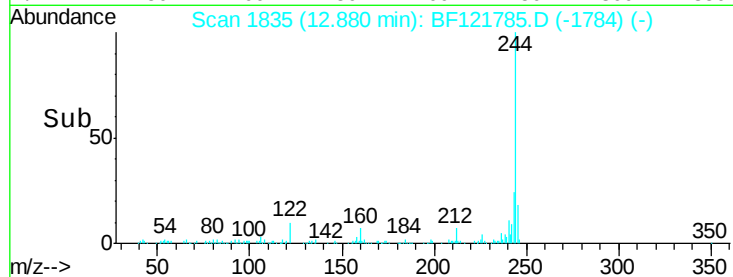
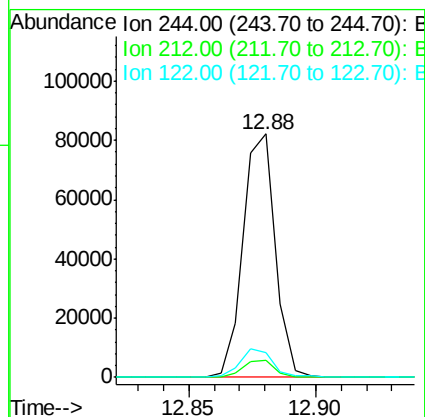
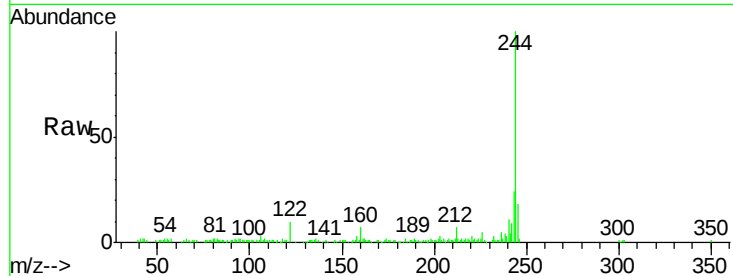




#79
 Terphenyl-d14
 Concen: 4.920 ng
 RT: 12.88 min Scan# 1835
 Delta R.T. -0.00 min
 Lab File: BF121785.D
 Acq: 2 Oct 2020 00:23

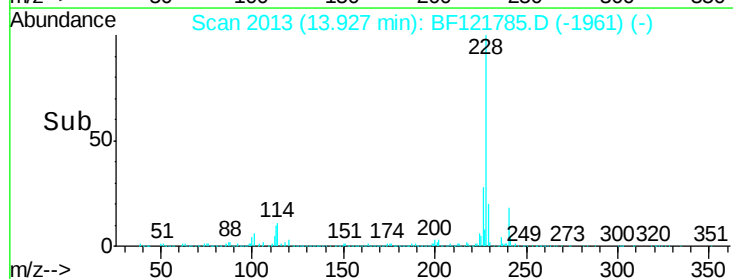
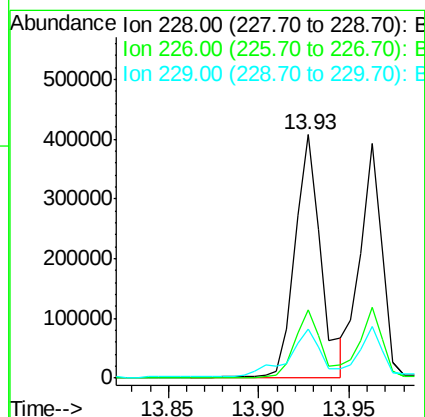
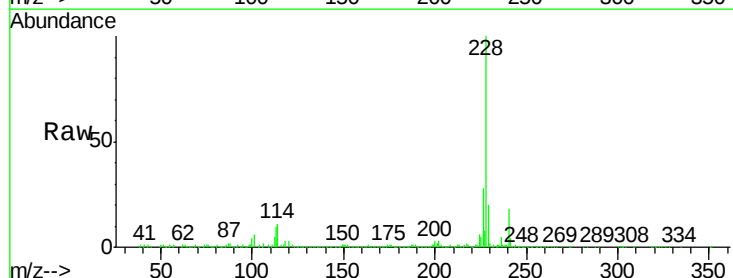
Instrument :
 BNA_F
 ClientSampleId :
 B-14(13-14)DL

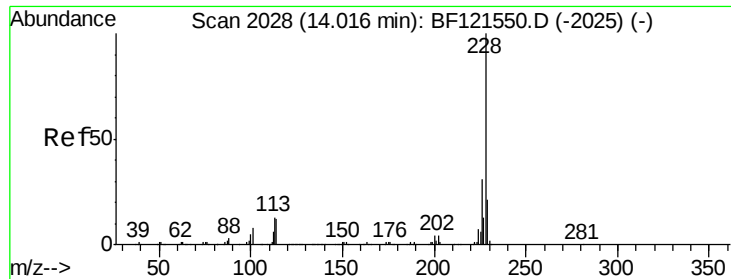
Tot Ion:244 Resp: 72343
 Ion Ratio Lower Upper
 244 100
 212 6.9 5.4 8.2
 122 10.3 8.1 12.1



#81
 Benzo(a)anthracene
 Concen: 21.768 ng
 RT: 13.93 min Scan# 2013
 Delta R.T. 0.01 min
 Lab File: BF121785.D
 Acq: 2 Oct 2020 00:23

Tgt Ion:228 Resp: 410250
 Ion Ratio Lower Upper
 228 100
 226 28.2 22.3 33.5
 229 20.0 16.2 24.4





#83

Chrysene

Concen: 17.417 ng

RT: 13.96 min Scan# 2019

Delta R.T. 0.01 min

Lab File: BF121785.D

Acq: 2 Oct 2020 00:23

Instrument :

BNA_F

ClientSampleID :

B-14(13-14)DL

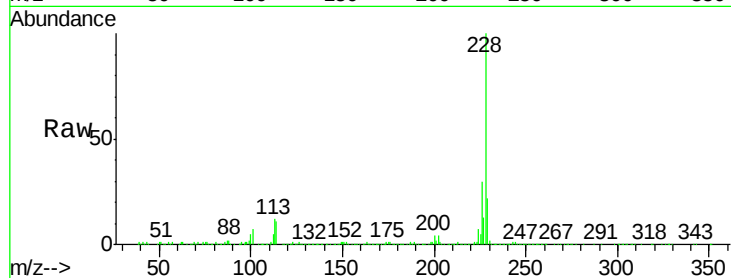
Tot Ion:228 Resp: 332394

Ion Ratio Lower Upper

228 100

226 30.1 24.6 37.0

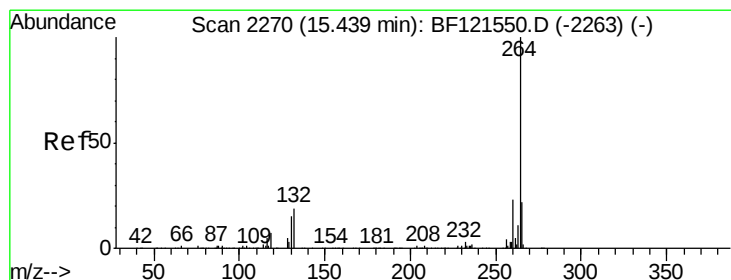
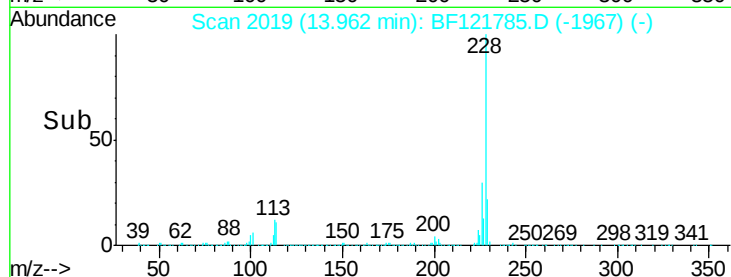
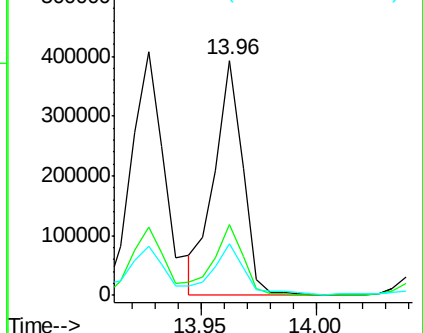
229 21.8 15.9 23.9



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

Perylene-d12

Concen: 20.000 ng

RT: 15.38 min Scan# 2260

Delta R.T. 0.02 min

Lab File: BF121785.D

Acq: 2 Oct 2020 00:23

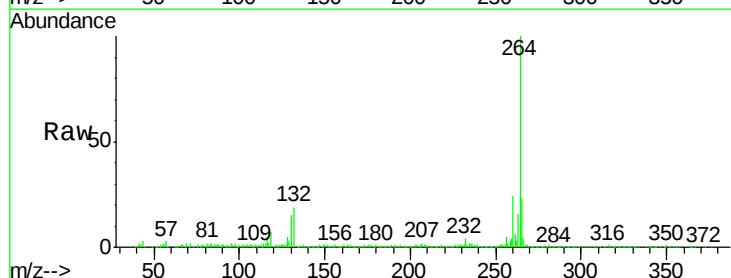
Tgt Ion:264 Resp: 247119

Ion Ratio Lower Upper

264 100

260 23.6 18.7 28.1

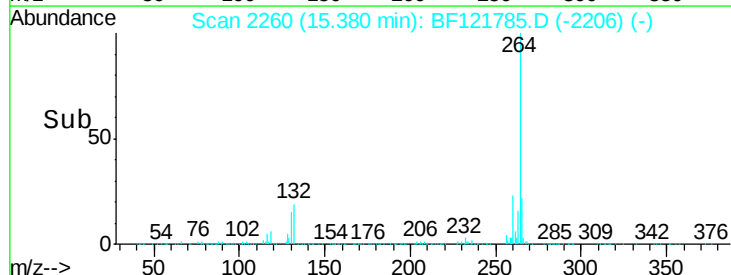
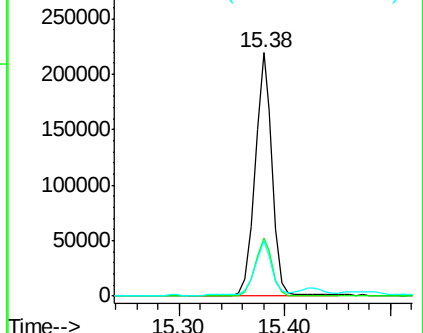
265 22.8 17.3 25.9

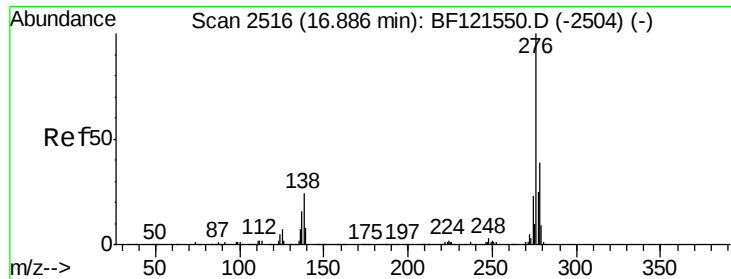


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

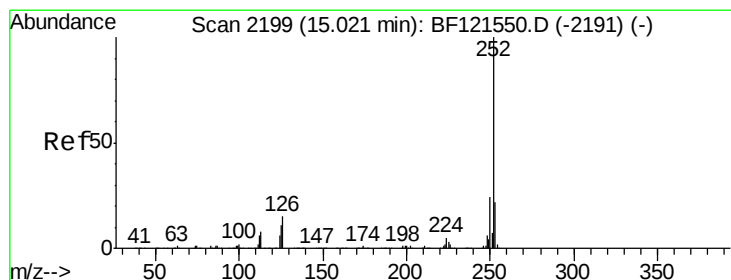
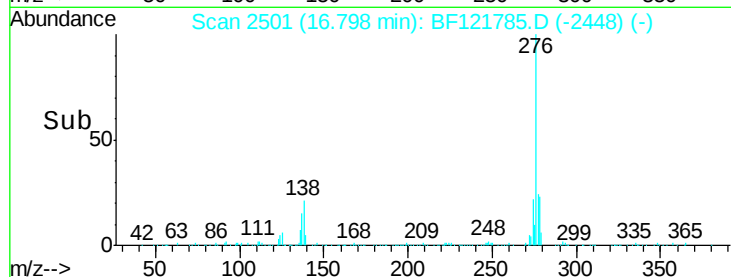
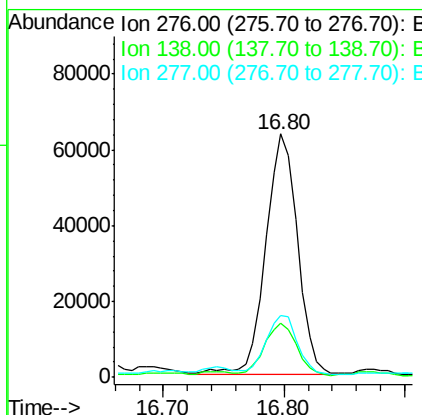
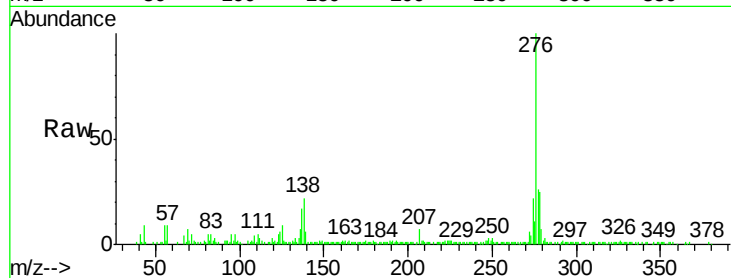




#87
 Indeno(1,2,3-cd)pyrene
 Concen: 7.186 ng
 RT: 16.80 min Scan# 2501
 Delta R.T. 0.01 min
 Lab File: BF121785.D
 Acq: 2 Oct 2020 00:23

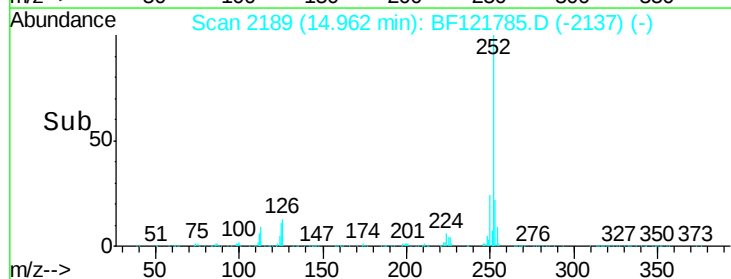
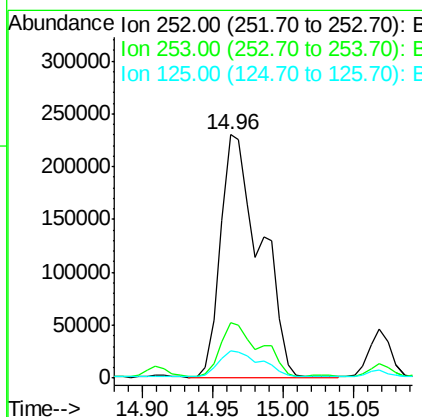
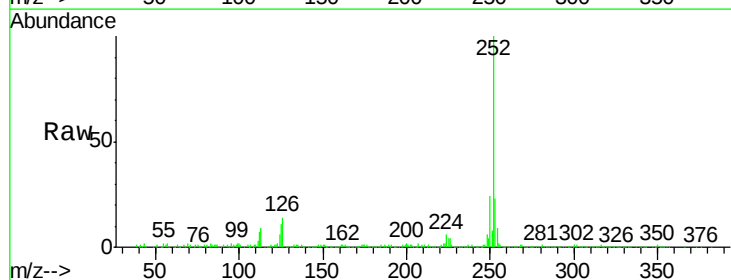
Instrument :
 BNA_F
 ClientSampleId :
 B-14(13-14)DL

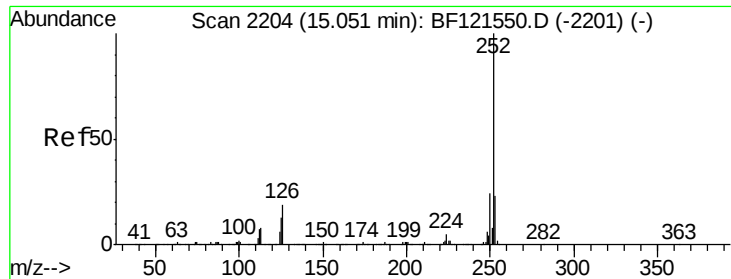
Tot Ion	Ratio	Lower	Upper
276	100		
138	21.7	19.9	29.9
277	24.3	20.4	30.6



#88
 Benzo(b)fluoranthene
 Concen: 27.315 ng
 RT: 14.96 min Scan# 2189
 Delta R.T. 0.01 min
 Lab File: BF121785.D
 Acq: 2 Oct 2020 00:23

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.2	27.2
125	11.4	8.0	12.0





#89

Benzo(k)fluoranthene

Concen: 29.828 ng

RT: 14.96 min Scan# 2189

Delta R.T. -0.02 min

Lab File: BF121785.D

Acq: 2 Oct 2020 00:23

Instrument :

BNA_F

ClientSampleId :

B-14(13-14)DL

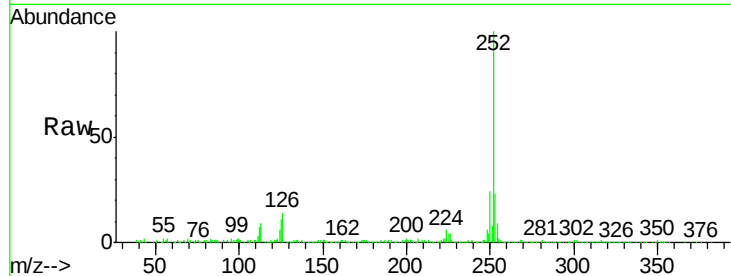
Tot Ion:252 Resp: 451242

Ion Ratio Lower Upper

252 100

253 22.8 17.8 26.6

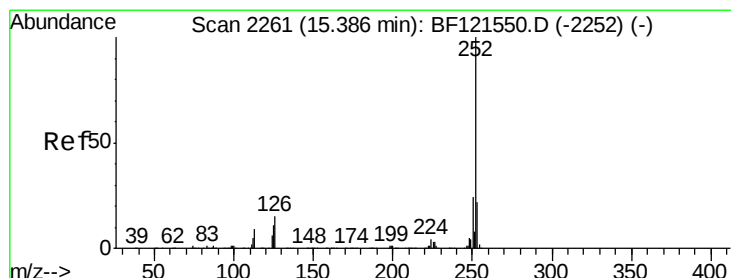
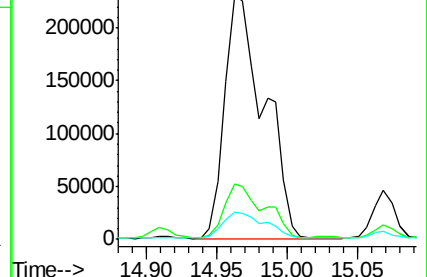
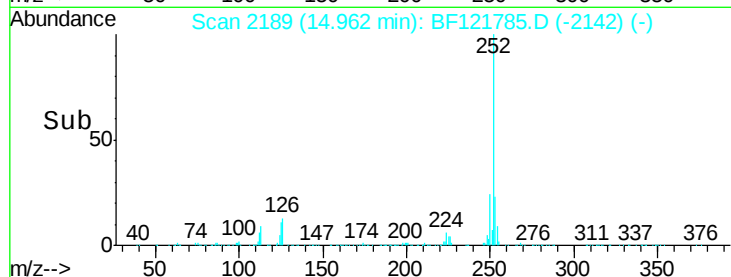
125 11.4 7.7 11.5



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: 16.423 ng

RT: 15.32 min Scan# 2249

Delta R.T. 0.01 min

Lab File: BF121785.D

Acq: 2 Oct 2020 00:23

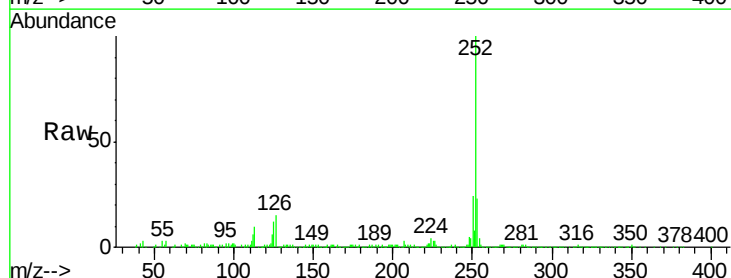
Tgt Ion:252 Resp: 230629

Ion Ratio Lower Upper

252 100

253 22.6 17.3 25.9

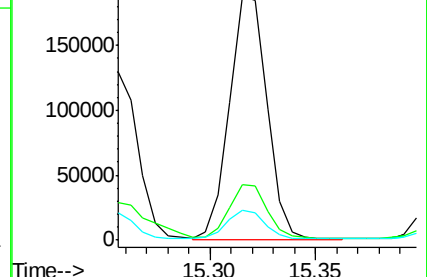
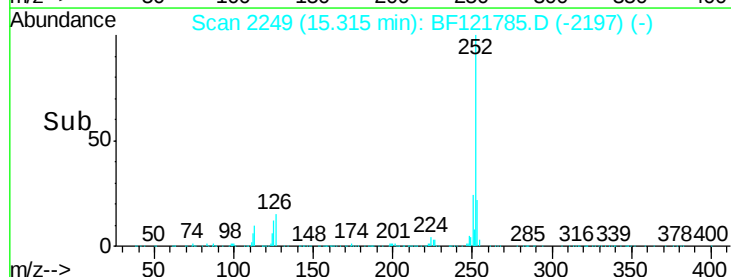
125 12.3 8.6 13.0

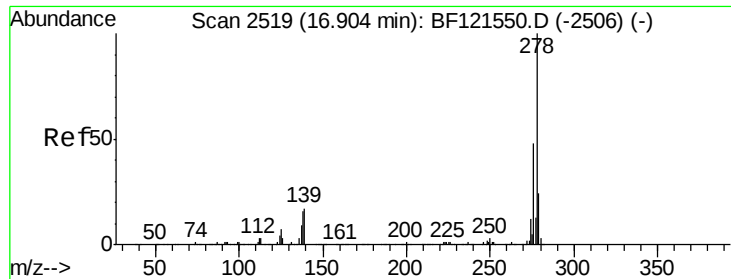


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

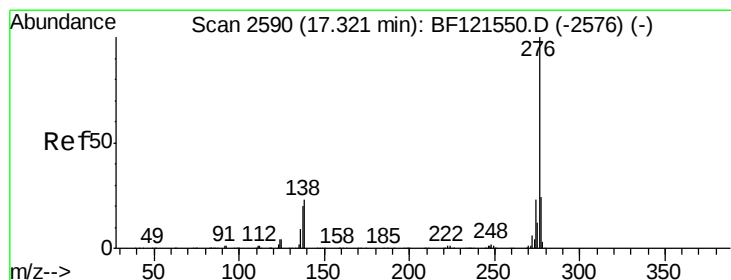
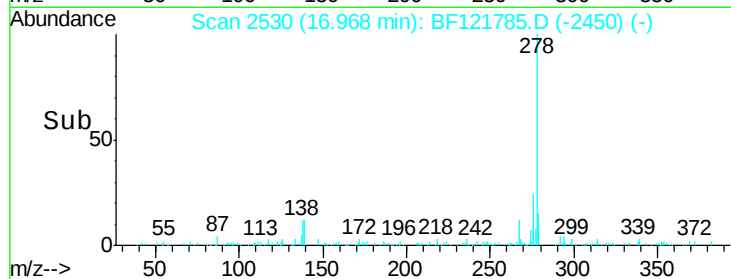
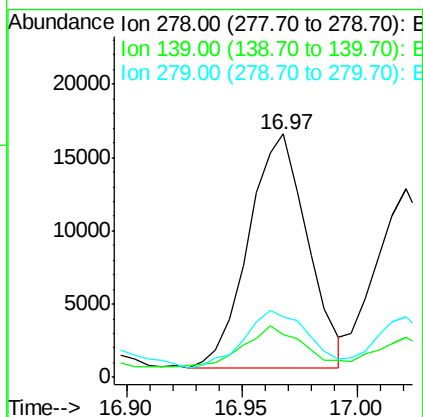
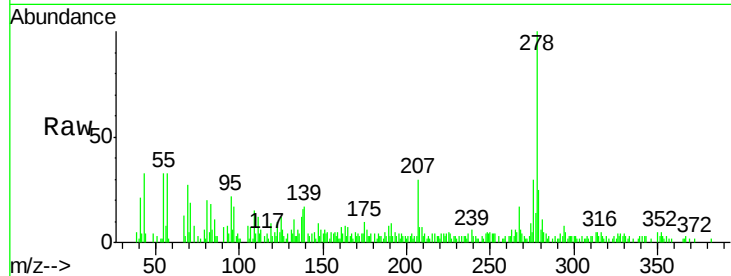




#91
Dibenzo(a,h)anthracene
Concen: 2.118 ng
RT: 16.97 min Scan# 2530
Delta R.T. 0.17 min
Lab File: BF121785.D
Acq: 2 Oct 2020 00:23

Instrument :
BNA_F
ClientSampleId :
B-14(13-14)DL

Tot Ion	Ratio	Lower	Upper
278	100		
139	17.3	13.0	19.4
279	25.0	19.0	28.4



#92
Benzo(g,h,i)perylene
Concen: 7.514 ng
RT: 17.23 min Scan# 2574
Delta R.T. 0.02 min
Lab File: BF121785.D
Acq: 2 Oct 2020 00:23

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.8	19.4	29.2
138	21.4	17.8	26.6

